JOHN W. RUNYON - ELEMENTARY SCHOOL - ORG 237

10750 CRADLEROCK DRIVE
DALLAS, TX 75229

100% CONSTRUCTION DOCUMENTS

01/29/25



DISD Board of Trustees

Lance Currie	District 1	Sarah Weinberg	District 2	Dan Micciche	District 3
Camile D. White	District 4	Maxie Johnson	District 5	Joyce Foreman	District 6
Ben Mackey	District 7	Joe Carreon	District 8	Ed Turner	District 9

DISD Superintendent

Dr. Stephanie Elizalde

CBRE I VANIR
Program Manager Contact: Terence Davis
9400 N. Central Expressway
Dallas, TX 75231
Email: C96893@dallasisd.org
Phone: 901.619.3088

CaCo Architecture LLC
Architect Contact: Roberto Diaz, AIA
1412 Main Street
Suite 1600
Dallas, Texas 75202
Email: CBREVanir@cacollc.com
Phone: 972.934.7600

CCA Landscape Architects, Inc.
Landscape Architect Contact: Greg Webb
12700 Hillcrest Road
Suite 149
Dallas, Texas 75230
Email: greg@ccalandscpearch.com
Phone: 469-734-8306

JQ Infrastructure
Civil Engineering Contact: Ovi Sipos, P.E
100 Glass Street
Dallas, Texas 75207
Email: osipos@jqeng.com
Phone: 214.623.5872

JQ Infrastructure
Structural Engineering Contact: Victor Liberato
100 Glass Street
Dallas, Texas 75207
Email: vliberato@jqeng.com
Phone: 915.892.1690

Cedrick Frank Associates
IT/AV/Security, Acoustical Contact: Cedrick Frank
1007 Briar Hill Circle
Duncanville, Texas 75137
Email: cfrank@cfassoc.com
Phone: 817.874.7116

Purdy-McGuire, Inc
MEP Engineering Contact: D. Scott Brown, P.E.
17300 Dallas Parkway
Suite 3000
Dallas, Texas 75248
Email: sbrown@purdy-mcguire.com
Phone: 972.239.5357

DRYTEC
Moisture Protection Technology Consultants, Inc.
Roofing Designer Contact: Liz Caballero
8750 N. Central Expressway
Suite 725
Dallas, TX. 75231
Email: lcaballero@drytecmptc.com
Phone: 214.363.2192

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT W. L. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
COVER SHEET

Sheet Number
A0.01

GENERAL NOTES

*THE GENERAL CONTRACTOR SHALL HAVE ALL SUBCONTRACTORS REVIEW THESE NOTES PRIOR TO BIDDING AND TO FOLLOW-UP AND EXECUTE AS WRITTEN.

1. PRIOR TO CONSTRUCTION ALL CONTRACTORS SHALL CHECK AND VERIFY ALL FIELD CONDITIONS AND SHALL HAVE SOLE RESPONSIBILITY FOR VERIFICATION OF CONDITIONS ON THE SITE AN WITHIN THE PREMISES. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
2. DISCREPANCIES- NOTIFY THE ARCHITECT PRIOR TO BIDDING IF A DISCREPANCY IS FOUND. AFTER BIDDING, WITHOUT PRIOR CLARIFICATION FROM THE ARCHITECT, THE GREATER QUANTITY OR BETTER QUALITY SHALL BE ASSUMED AS PART OF THE BID. NO ADDITIONAL COSTS WILL BE ALLOWED.
3. PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE LOCAL CODES AND ORDINANCES. WORK SHALL COMPLY WITH LOCAL AND STATE FIRE CODES.
4. PROTECTION OF WORK IN PLACE - WORK IN PLACE THAT IS SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP, OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION. ALL FORMS OF PROTECTION SHALL BE CONSTRUCTED IN A MANNER SUCH THAT, UPON COMPLETION, THE ENTIRE WORK WILL BE DELIVERED TO THE OWNER IN PROPER, WHOLE, AND UNBLEMISHED CONDITION.
5. THE GENERAL CONTRACTOR SHALL LAY OUT WORK AS SPECIFIED IN THE DRAWINGS AND SHALL BE HELD RESPONSIBLE FOR PROPER ESTABLISHMENT AND MAINTENANCE OF ALL LINES AND DIMENSIONS. BEFORE DOING ANY WORK, THIS GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES VERBALLY AND THEN IN WRITING.
6. ALL CONTRACTORS SHALL BE BONDABLE, LICENSED CONTRACTORS POSSESSING GOOD LABOR RELATIONS AND MUST BE CAPABLE OF QUALITY WORKMANSHIP, IN HARMONY WITH OTHER CONTRACTORS WORKING ON THE PROJECT.
7. THE GENERAL CONTRACTOR, ALL SUBCONTRACTORS OR OUTSIDE SERVICES COMPLETING WORK ON THIS PROJECT SHALL COMPLY WITH ALL THE PROVISIONS OF O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ACT).
8. THE GENERAL CONTRACTOR SHALL HAVE AT ALL TIMES, AT THE PREMISES, OWNER APPROVED WORKING DRAWINGS (IF APPLICABLE) AND BUILDING DEPARTMENT APPROVED PERMIT DRAWINGS.
9. ALL CLEARANCES OF PIPES AND DUCT WORK INSTALLED BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS MUST BE MAINTAINED FOR ADEQUATE HEIGHTS REQUIRED FOR CEILING SYSTEM AND LIGHT FIXTURES.
10. THE GENERAL CONTRACTOR IS TO ARRANGE WITH THE OWNER, WHERE BUILDING EQUIPMENT AND MATERIALS ARE TO BE LOCATED AND HOW TRUCK TRAFFIC IS TO BE ROUTED TO AND FROM THE BUILDING. EACH CONTRACTOR AND SUBCONTRACTOR PARTICIPATING IN THE PERFORMANCE OF THE WORK SHALL MAKE APPROPRIATE ARRANGEMENTS WITH OWNER FOR HOISTING MATERIAL AND SHALL OBTAIN APPROVAL FROM OWNER FOR ANY SPACE OUTSIDE OF PREMISES OF THE AREA OF WORK, WHICH THE CONTRACTOR OR SUBCONTRACTOR, DESIRES TO USE FOR STORAGE, HANDLING AND MOVING OF ITS MATERIALS AND EQUIPMENT AS WELL AS FOR THE LOCATION OF ANY FIELD OFFICE OR FACILITIES FOR ITS PERSONNEL.
11. THE CONTRACTOR AND SUBCONTRACTORS PARTICIPATING IN THE PERFORMANCE OF THE WORK SHALL REMOVE AND DISPOSE OF, AT LEAST ONCE A WEEK AND MORE FREQUENTLY AS THE BUILDING OWNER MAY DIRECT, ALL DEBRIS AND RUBBISH CAUSED BY OR RESULTING FROM THE PERFORMANCE OF WORK AND, UPON COMPLETION THEREOF, REMOVE ALL TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS AND RUBBISH OF WHATEVER KIND REMAINING IN THE BUILDING WHICH HAD BEEN BROUGHT IN OR CREATED BY THE CONTRACTOR AND SUBCONTRACTORS IN THE PERFORMANCE OF TENANT'S WORK. THIS CONTRACTOR MUST MAINTAIN A CLEAR PATH OF EGRESS FROM THE PREMISES FREE FROM TRASH AND RUBBISH AT ALL TIMES. ALL REMOVAL OF CONSTRUCTION DEBRIS TO AN APPROVED DUMPING SITE TO BE INCLUDED IN THE GENERAL CONTRACTOR'S WORK, INCLUDING ALL DUMP FEES AND TRANSPORTATION COSTS.
12. WHEN BIDDING THIS PROJECT, EACH CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND VERIFY EXISTING CONDITIONS. EXTRA COSTS DUE TO EXTRA WORK REQUIRED THAT COULD HAVE BEEN FORESEEN BY CAREFUL EXAMINATION OF THE SITE WILL NOT BE ALLOWED.
13. THE GENERAL CONTRACTOR WILL BE REQUIRED TO HANDLE ALL WORK IN THESE DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.
14. ALL EXITS SHALL BE UNOBSTRUCTED AT ALL TIMES, DURING CONSTRUCTION AND OCCUPANCY.
15. IF THE OWNER'S REPRESENTATIVE OR ARCHITECT DO NOT MAKE REPEATED SITE VISITS CONTINUALLY OR AT ALL, THE GENERAL CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY OR DUTIES INVOLVED IN THIS CONSTRUCTION WORK.
16. THE CONSTRUCTION DRAWINGS LISTED ON THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BASED ON THE BEST INFORMATION AVAILABLE TO THE ARCHITECT DURING PREPARATION OF PLANS. IN THE EVENT THAT DISCREPANCIES ARISE DURING THE COURSE OF THE PROJECT, DUE TO UNKNOWN SITE CONDITIONS OR CODE AND OWNER REQUIREMENTS (IF ANY) THAT CONFLICT WITH DRAWINGS, THE GENERAL CONTRACTOR SHALL INFORM THE ARCHITECT IMMEDIATELY.
17. THE PROPER RECEIPT OF ALL NEW MATERIALS AND EQUIPMENT AT THE JOB SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND/OR HIS/HER SUBCONTRACTORS (IF ANY). SECURE AND SAFE STORAGE OF ALL NEW AND EXISTING MATERIALS AND EQUIPMENT TO REMAIN (IF ANY) WILL BE PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO IMMEDIATELY ADVISE ARCHITECT OF ALL DAMAGED OR DEFICIENT SHIPMENTS OF MATERIALS AND EQUIPMENT, WHETHER SUPPLIED DIRECTLY BY CONTRACTOR OR HIS/HER SUPPLIERS. GENERAL CONTRACTOR TO COMPLETE AND SUBMIT ALL NECESSARY PAPERWORK AND ARRANGE INSPECTIONS OF DAMAGED GOODS.
18. THE GENERAL CONTRACTOR IS REQUIRED TO ADHERE TO ALL NEW REQUIREMENTS, STATED OR NOT ON THESE PLANS AND SPECIFICATIONS, FOR THE LATEST ACCESSIBILITY STANDARDS. THIS LAW IS A CIVIL RIGHTS LAW AND THE EXCLUSION OF REQUIREMENTS BY THE LOCAL CODE OFFICIALS DOES NOT RELIEVE THE CONTRACTOR OF ADHERING TO THE NECESSARY WORK, EITHER DURING CONSTRUCTION OR AFTER OCCUPANCY.
19. GENERAL CONTRACTOR AGREES THAT IN THE PERFORMANCE OF WORK AT THE PREMISES. ALL WORK SHALL BE PERFORMED IN A MANNER WHICH WILL NOT CREATE ANY WORK STOPPAGE, PICKETING, LABOR DISRUPTION AFFECTING THE BUILDING OR INTERFERE WITH THE BUSINESS OF THE SCHOOL. IN THE EVENT OF THE OCCURRENCE OF ANY WORK STOPPAGE, PICKETING, LABOR DISRUPTION OR DISPUTE RESULTING FROM ACTIONS OR OMISSIONS OF GENERAL CONTRACTOR OR SUBCONTRACTORS, OR THEIR RESPECTIVE EMPLOYEES, CONTRACTORS OR SUBCONTRACTORS, GENERAL CONTRACTOR SHALL IMMEDIATELY UPON NOTICE FROM OWNER, CEASE THE CONDUCT GIVING RISE TO SUCH CONDITION. THIS CLAUSE MUST BE PART OF ALL GENERAL CONTRACTOR/ SUBCONTRACTOR AGREEMENTS AND IF SUCH CLAUSE IS NOT INCLUDED, IT WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE REQUIREMENTS OR WORK STATED HEREIN.
20. QUALITY STANDARDS: ALL SUCH WORK SHALL BE PERFORMED IN A FIRST-CLASS WORKMANLIKE MANNER AND SHALL BE IN GOOD AND USABLE CONDITION AT THE DATE OF COMPLETION THEREOF. THE GENERAL CONTRACTOR SHALL REQUIRE ANY PERSON PERFORMING ANY SUCH WORK TO GUARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF COMPLETION THEREOF. OWNER SHALL ALSO REQUIRE ANY SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE, OF ANY AND ALL WORK DONE OR FURNISHED BY OR THROUGH SUCH PERSON, WHICH SHALL BECOME DEFECTIVE WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK. THE CORRECTION OF SUCH WORK SHALL INCLUDE WITHOUT ADDITIONAL CHARGE, ALL EXPENSES AND DAMAGES IN CONNECTION WITH SUCH REMOVAL, REPLACEMENT OR REPAIR OF ANY PART OF THE WORK WHICH MAY BE DAMAGED OR DISTURBED THEREBY. ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL INSURE THE BENEFIT OF THE OWNER, AS THEIR RESPECTIVE INTERESTS APPEAR AND CAN BE DIRECTLY ENFORCED BY EITHER. GENERAL CONTRACTOR TO HAVE THIS CLAUSE IN EVERY SUBCONTRACTOR AGREEMENT FOR THE PROJECT AND IF SUCH CLAUSE IS NOT INCLUDED, IT WILL NOT RELIEVE THE GENERAL CONTRACTOR OF THE REQUIREMENTS OR WORK STATED HEREIN.
21. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTION OF THE WORK UNDER THE CONTRACT, UNLESS CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS.
22. THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.
23. IF THERE IS A DISCREPANCY BETWEEN A SMALLER DETAIL OR PLAN REGARDING INFORMATION, SIZING, MEASURING, ETC., AND A LARGER DETAIL OR PLAN, THE GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR WORKING ON THE DETAIL /PLAN IS TO CONTACT THE ARCHITECT PRIOR TO STARTING THAT PARTICULAR WORK.
24. DRAWINGS ARE PREPARED TO A SCALE AS LARGE AS POSSIBLE; HOWEVER, INDICATED DIMENSIONS AND NOTED RELATIONSHIPS (I.E. "EQUAL" "ALIGN" "CENTER") WILL GOVERN. DO NOT SCALE DRAWINGS.
25. NEW WORK TO EXISTING WORK IN A NEAT AND CODE APPROVED MANNER.
26. WHEREVER PENETRATIONS ARE REQUIRED TO BE MADE IN ANY EXTERIOR ELEMENT AS PART OF THIS WORK, MAKE PENETRATIONS WATERTIGHT AND AIRTIGHT. WHERE PENETRATIONS ARE TO BE MADE IN FIRE RATED ELEMENTS, SEAL ALL PENETRATIONS WITH MATERIALS WHICH WILL MAINTAIN THE RATING OF THE ELEMENT BEING PENETRATED. COORDINATE ANY PENETRATIONS IN ROOF WITH OWNER.
27. PROVIDE ANY REQUIRED SUPPORT MATERIAL TO PROPERLY INSTALL ALL NEW MILLWORK, TOILET ACCESSORIES, HARDWARE, AND OTHER ITEMS NEEDING SOLID ATTACHMENT. UTILIZE FIRE RETARDANT TREATED LUMBER AND PLYWOOD (CLASS A FLAME SPREAD RATED) UNLESS NOTED OR SHOWN OTHERWISE.
28. DRAWINGS ARE THE PROPERTY OF ARCHITECT AND SHALL NOT BE COPIED OR DUPLICATED IN ANY MANNER. THEY SHALL BE USED WITH REFERENCE TO WORK UNDER CONSTRUCTION ONLY.
29. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL, AS REQUIRED, HAND OPERATED FIRE EXTINGUISHERS (DURING THE CONSTRUCTION PHASE).
30. PROVIDE AND INSTALL FIRE EXTINGUISHERS IN QUANTITY AND AT LOCATIONS INDICATED BY N.F.P.A.-10 AND ALL LOCAL AUTHORITIES HAVING JURISDICTION. COORDINATE FINAL LOCATIONS WITH ARCHITECT.
31. ALL ELECTRICAL ROUGH-INS TO BE NEW, SERVICES TO BE REVISED SHALL BE UPGRADED TO "LIKE NEW" CONDITION AND MEET LATEST N.E.C. STANDARDS CUT AND EXTEND TO POINT OF ALL NEW ELECTRICAL EQUIPMENT. GENERAL CONTRACTOR TO FIELD VERIFY THAT ALL UTILITY LINES ARE AT OR ADJACENT TO SPACE AS NOTED AND SIZE SPECIFIED. IF THE UTILITIES ARE NOT IN LOCATIONS AS NOTED ON THE DRAWINGS OR OF A SIZE LARGER OR SMALLER THAN NOTED, THIS CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY.
32. ALL GYPSUM BOARD TO BE 5/8" GYPSUM WALL BOARD, FIRE-CODE "X". SEE PLANS AND SPECIFICATIONS FOR WALL INDICATIONS. ALL PENETRATIONS FOR OR SUPPLY RETURN AIR, ETC., TO HAVE PROPERLY INSTALLED FIRE DAMPERS MEETING THE LATEST FIRE DEPARTMENT REQUIREMENTS, BASED ON SPECIFIC LOCATION OF SPACE IN THE BUILDING.
33. ALL DOORS, METAL BUCKS, TRIMMED OPENINGS AND HARDWARE, INCLUDING LOCKS, TO BE PROVIDED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
34. THE CONTRACTOR IS RESPONSIBLE TO CUT AND FRAME ALL OPENINGS FOR OTHER TRADES, SUCH AS MECHANICAL, SPRINKLER, PLUMBING, ELECTRICAL, THROUGH PARTITIONS AND STRUCTURAL WALLS.
35. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE BUILDING AND ELECTRICAL INSPECTORS FOR ALL CONCEALED WORK PRIOR TO CLOSING UP WALLS, FLOORS, CEILINGS.
36. ALL RESTROOM WALL HC SIGNAGE, TOILET SIGNAGE AND INTERIOR SIGNAGE SHALL HAVE WHITE LETTERS AND NUMERALS RAISED 1/32" ON A BLUE BACKGROUND, UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE II BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". ALL SIGNAGE SHALL COMPLY WITH ADA REQUIREMENTS.

ASBESTOS CONTAINING MATERIALS

1. THE GENERAL CONTRACTOR SHALL NOTIFY THE TEXAS DEPARTMENT OF HEALTH PRIOR TO ANY DEMOLITION PER THE TEXAS ASBESTOS HEALTH PROTECTION ACT AND THE TEXAS ASBESTOS HEALTH PROTECTION RULES. NOTIFICATION IS REQUIRED IN ACCORDANCE WITH 295.61 OF THE TEXAS ASBESTOS HEALTH PROTECTION RULES. UTILIZING THE TEXAS DEPARTMENT OF HEALTH DEMOLITION / RENOVATION NOTIFICATIONS FORM.
2. ABATEMENT IS BY THE GENERAL CONTRACTOR WITH MONITORING TO BE HIRED BY DISD AS A 3RD PARTY. ASBESTOS REPORT IS INCLUDED IN SPECIFICATIONS AS A COURTESY TO THE OWNER.

BIDDING GENERAL NOTES

1. **THIS SET OF DRAWINGS IS INTENDED TO BE USED IN ITS ENTIRETY. EACH SHEET IN THIS SET OF DRAWINGS IS COORDINATED AND DEPENDENT ON THE OTHER SHEETS IN THE SET. UNDER NO CIRCUMSTANCES SHOULD THE SET OF DRAWINGS BE SUBDIVIDED OR ISSUED AS SEPARATE SHEETS. SHOULD SUCH SEPARATION OCCUR, THE RESPONSIBILITY FOR ANY ERRORS, OMISSIONS OR CONFLICTS RESULTING FROM SUCH SEPARATION SHALL BE BORNE BY THE GENERAL CONTRACTOR. IT IS THE GENERAL CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO CONTACT THE ARCHITECT CONCERNING ANY ITEMS SHOWN ON THE DRAWINGS THAT ARE UNCLEAR, CONFUSING, OR OTHERWISE SUSPICIOUS TO THE GENERAL CONTRACTOR OR HIS SUB- CONTRACTORS. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSION PRIOR TO STARTING THE WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. START OF WORK IS CONTRACTOR'S ACCEPTANCE OF THE CONFIGURATIONS REPRESENTED ON THE DRAWINGS.**
2. **GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SCOPES OF WORK BETWEEN HIS TRADES. INFORMATION FOR EACH TRADE MAY BE CONTAINED WITHIN ANY DRAWING IN THE SET OF DRAWINGS. LOCATION OF DRAWING IN A SPECIFIC DRAWING DISCIPLINE OR ANOTHER DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE INDICATED ITEMS.**
3. **TRADES ARE TO REVIEW ARCHITECTURAL DRAWINGS AS WELL AS SPECIFIC CONSULTANT'S DRAWINGS TO COORDINATE THE SCOPE OF WORK. EXTRA COSTS WILL NOT BE APPROVED DUE TO LACK OF REVIEW OF AVAILABLE DOCUMENTS**
4. **THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. IF WORK IS SHOWN ONLY ON ONE BUT NOT ON THE OTHER, THE CONTRACTOR SHALL PERFORM THE WORK AS THOUGHTFULLY DESCRIBED ON BOTH CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS.**
5. **BIDDERS/TRADES SHALL CORRELATE ARCHITECTURAL DRAWINGS WITH ENGINEER'S OR SPECIALTY CONSULTANT'S DRAWINGS PRIOR TO BIDDING, WHERE DISCREPANCIES IN QUANTITIES OR LOCATIONS EXIST THE BIDDER SHALL EITHER REQUEST A CLARIFICATION PRIOR TO BIDDING OR PROVIDE THE HIGHER COST/BIGGER QUANTITY IN THEIR BID.**
6. **BIDDERS ALL INCLUDE IN PRICING THE REQUIRE PIPING, WIRING, DUCT OR OTHER SUPPORT MATERIALS WHETHER INDICATED OR NOT IN DOCUMENTS, INSTALLATION OF ANY SUCH ITEM SHALL BE TO PROVIDE A COMPLETE OPERABLE, CODE COMPLIANT SYSTEM.**
7. **THE TERM "BY OTHERS" MEANS BY SEPARATE TRADE WITHIN THE CONTRACT DOCUMENTS AND ARE A PART OF THE CONTRACTOR'S SCOPE OF WORK. GENERAL CONTRACTOR SHALL COORDINATE SCOPE BETWEEN TRADES.**

ABBREVIATIONS

ACOUST	ACOUSTICAL
AEDC	AUTOMATED EXTERNAL DEFIBRILLATOR CABINET
AFF	ABOVE FLOOR FINISH
ALUM	ALUMINUM
ANOD.	ANODIZED
ARCH	ARCHITECT
BD	BOARD
BO CAB	BOTTOM OF CABINET
CHPS	COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CT	CERAMIC TILE
DBL	DOUBLE
DN	DOWN
DR	DOOR
DTL	DETAIL
DW	DISH WASHER
DWG(S)	DRAWING(S)
DWR	DRAWER
EA	EACH
ELEC	ELECTRICAL
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR
F	FREEZER
FBD	FIBER BOARD
FBO	FURNISHED BY OWNER
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FURNITURE FIXTURES & EQUIPMENT
FIN	FINISH
FLR	FLOOR
FRP	FIBER REINFORCED PANELS
FRT	FIRE RETARDANT TREATED
FSE	FOOD SERVICE EQUIPMENT
FV	FIELD VERIFY
GA	GUAGE
GALV	GLAVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS/GLAZING
GYP BD	GYPSUM BOARD
HC	HANDICAPPED
HM	HOLLOW METAL
HT	HEIGHT
INT	INTERIOR
JST	JOIST
LAM	LAMINATE
LAV	LAVATORY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MFGR	MANUFACTURER
MH	MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
MLD	MOULDING
MTD	MOUNTED
MTL	METAL
MUL	MULLION
NIC	NOT IN CONTRACT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPCI	OWNER PROVIDED CONTRACTOR INSTALLED
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
PBD	PARTICLE BOARD
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREP	PREPARATION
PTD	PAINTED
PTM	PAINT TO MATCH
QT	QUARRY TILE
R	REFRIGERATOR
RA	RETURN AIR
RAD	RADIUS
RE: /REF	REFER / REFERENCE
RECPT	RECEPTACLE
REINF	REINFORCED
REQD	REQUIRED
RO	ROUGH OPENING
S/S	STAINLESS STEEL
SC	SOLID CORE
SCHED	SCHEDULED
SFT	STOREFRONT
SIM	SIMILAR
SPECD	SPECIFIED
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TEMP	TEMPORARY
TO	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
W/D	WASHER/DRYER
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WIN	WINDOW
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABIRC

SYMBOLS

- SECTION CUT KEY
- PLAN ELEVATION KEY
- CENTERLINE/COLUMN LINE
- REVISION NUMBER
- FINISH NOTE
- WALL TYPE COLUMN LINE NUMBER
- DETAIL ENLARGED
- DOOR TYPE
- EL X'-X" TARGET ELEVATION
- N NORTH INDICATOR
- 1'-0" DIMENSIONS TO FACE OF BD.
- X WINDOW TYPE
- X KEY NOTE
- F.E. FIRE EXTINGUISHER IN CABINET
- PLAN ENLARGED
- BRICK
- CONCRETE
- STEEL
- PLYWOOD GYPSUM BOARD
- WOOD
- NEW WALL
- EXISTING WALLS TO REMAIN
- NOT IN CONTRACT (N.I.C.)
- MILLWORK DESIGNATION

VICINITY MAP



VICINITY SITE PLAN



AREA SITE PLAN

Sheet Number	Sheet Name	Sheet Issue Date	Current Revision Date
A0.01	COVER SHEET	10/22/2025	
C00.01	GENERAL NOTES	10/22/2025	
C01.00	EXISTING CONDITIONS	10/22/2025	
C02.00	DEMO PLAN	10/22/2025	
C03.00	ENGINEERING SITE PLAN	10/22/2025	
C04.00	GRADING PLAN	10/22/2025	
C05.00	EROSION CONTROL PLAN	10/22/2025	
C05.01	EROSION CONTROL DETAILS	10/22/2025	
C06.00	CIVIL DETAILS	10/22/2025	
C06.01	CIVIL DETAILS	10/22/2025	
L1.00	TREE CONSERVATION PLAN	10/22/2025	
L1.01	TREE CONSERVATION PLAN	10/22/2025	
L1.02	TREE CONSERVATION DETAILS	10/22/2025	
L2.01	SOIL RESOURCE PLAN	10/22/2025	
L3.01	IRRIGATION PLAN	10/22/2025	
L3.02	IRRIGATION DETAILS	10/22/2025	
L4.01	LANDSCAPE PLANTING PLAN	10/22/2025	
L4.02	LANDSCAPE PLANTING DETAILS	10/22/2025	
L300	IRRIGATION PLAN	10/22/2025	
L400	LANDSCAPE PLANTING PLAN	10/22/2025	
S1.01	STRUCTURAL NOTES	10/22/2025	
S1.02	STRUCTURAL NOTES	10/22/2025	
S1.03	SPECIAL INSPECTIONS	10/22/2025	
SD2.03	ROOF DEMO PLAN - ENTRY	10/22/2025	
S2.01	FOUNDATION PLAN	10/22/2025	
S2.02	ROOF FRAMING PLAN - OVERALL	10/22/2025	
S2.03	ROOF FRAMING PLAN - ADDITION	10/22/2025	
S2.10	WALL ELEVATIONS	10/22/2025	
S3.01	TYPICAL CONCRETE DETAILS	10/22/2025	
S3.02	TYPICAL CONCRETE DETAILS	10/22/2025	
S3.03	CONCRETE DETAILS	10/22/2025	
S5.01	TYPICAL STEEL DETAILS	10/22/2025	
S5.02	TYPICAL STEEL DETAILS	10/22/2025	
S5.03	TYPICAL STEEL DETAILS	10/22/2025	
S5.04	TYPICAL STEEL DETAILS	10/22/2025	
A0.02	SHEET INDEX / GENERAL NOTES	10/22/2025	
A0.05	CODE & EGRESS	10/22/2025	
A0.06	TAS STANDARDS	10/22/2025	
A0.10	FRAMING DTLS	10/22/2025	
A0.11	WALL, DR, WNDW	10/22/2025	
A0.30	SF DETAILS	10/22/2025	
A0.31	CW DETAILS	10/22/2025	
A0.40	FINISHES	10/22/2025	
D2.00	DEMO 1	10/22/2025	
D2.01	DEMO ADMIN	10/22/2025	
A1.00	SITE PLAN	10/22/2025	
A1.01	SITE DETAILS	10/22/2025	
A1.02	PHOTOMETRICS	10/22/2025	
A1.03	SEQUENCE PLAN	10/22/2025	
A2.00	OVERALL PLAN	10/22/2025	
A2.01	FLOOR PLAN A	10/22/2025	
A2.02	FLOOR PLAN B	10/22/2025	
A2.03	FLOOR PLAN C	10/22/2025	
A2.04	FLOOR PLAN D	10/22/2025	
A2.10	FLOOR PLAN ADMIN	10/22/2025	
A2.11	DIMENSION PLAN	10/22/2025	
A2.20	FINISHES ADMIN	10/22/2025	
A3.00	RCP L1	10/22/2025	
A3.10	RCP ADMIN	10/22/2025	
A3.11	RCP SECTIONS	10/22/2025	
A4.00	ROOF PLAN	10/22/2025	
A5.00	EXTERIOR ELEV	10/22/2025	
A5.01	EXTERIOR ELEV	10/22/2025	
A5.03	EXTERIOR ELEV	10/22/2025	
A6.00	BLDG SECTIONS	10/22/2025	
A7.00	WALL SECTIONS	10/22/2025	
A7.01	SECTION DTLS	10/22/2025	
A7.02	PLAN DTLS	10/22/2025	
A8.00	INTERIOR ELEV	10/22/2025	
A9.00	3D VIEWS	10/22/2025	
A9.01	3D VIEWS	10/22/2025	
A10.01	MILLWORK	10/22/2025	
A11.00	FF&E PLAN	10/22/2025	
R1.01	OVERALL CONSTRUCTION PLAN	10/22/2025	
R2.00	ROOF DETAILS	10/22/2025	
R2.01	ROOF DETAILS	10/22/2025	
R2.02	DETAILS	10/22/2025	
R2.03	DETAILS	10/22/2025	
RD1.01	OVERALL DEMOLITION PLAN	10/22/2025	
MEP2.01	ROOF LEVEL - MEP PIPING PLAN	10/22/2025	
MEP7.01	MEP CONTROLS - GENERAL	10/22/2025	
MEP7.02	MEP CONTROLS - CONDENSER WATER	10/22/2025	
MEP7.03	MEP CONTROLS - CONDENSER WATER	10/22/2025	
MEP7.04	MEP CONTROLS - CHW RTU MULTI-ZONE	10/22/2025	
MEP7.05	MEP CONTROLS - CHW RTU SINGLE-ZONE	10/22/2025	
MEP7.06	MEP CONTROLS - DX RTU SINGLE ZONE	10/22/2025	
MEP7.07	MEP CONTROLS - FANS	10/22/2025	
MEP7.08	MEP CONTROLS - MISC	10/22/2025	
MEP7.09	MEP CONTROLS - VFD'S AND IDF/MDF ROOMS	10/22/2025	
MEP7.10	MEP CONTROLS - VAV	10/22/2025	
DM2.01	MECHANICAL DEMOLITION PLAN - OVERALL	10/22/2025	
DM2.02	ROOF LEVEL - MECHANICAL DEMOLITION PLAN	10/22/2025	
M0.01	MECHANICAL NOTES & SYMBOLS	10/22/2025	
M0.02	MECHANICAL NOTES & SYMBOLS	10/22/2025	
M0.03	MECHANICAL NOTES & SYMBOLS	10/22/2025	
M2.00	MECHANICAL PLAN - CRAWLSPACE - OVERALL	10/22/2025	
M2.01	MECHANICAL PLAN - OVERALL	10/22/2025	
M2.02	MECHANICAL PLAN - ENLARGED PLAN	10/22/2025	
M2.03	ROOF LEVEL - MECHANICAL PLAN	10/22/2025	
M2.11	MECHANICAL RETURN AIR PLAN -ENLARGED PLAN	10/22/2025	
M3.01	MECHANICAL SECTION VIEWS	10/22/2025	
M4.01	MECHANICAL AIR RISER	10/22/2025	
M4.02	MECHANICAL PIPING RISERS	10/22/2025	
M5.01	MECHANICAL DETAILS	10/22/2025	
M5.02	MECHANICAL DETAILS	10/22/2025	
M5.03	MECHANICAL DETAILS	10/22/2025	
M6.01	MECHANICAL SCHEDULES	10/22/2025	
M6.02	MECHANICAL SCHEDULES	10/22/2025	
E0.01	ELECTRICAL NOTES & SYMBOLS	10/22/2025	
E0.02	ELECTRICAL NOTES & SYMBOLS	10/22/2025	
E1.01	ELECTRICAL SITE PLAN	10/22/2025	
E2.01	ELECTRICAL PLAN - OVERALL	10/22/2025	
E2.02	ELECTRICAL PLAN - ROOF LEVEL	10/22/2025	
E3.01	LIGHTING PLAN - OVERALL	10/22/2025	
E4.01	ELECTRICAL ENLARGED PLAN	10/22/2025	
E4.02	ELECTRICAL ENLARGED PLAN	10/22/2

Site Plan General Notes:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS. FOR ANY WORK NOT GOVERNED BY CITY DETAILS. THE LATEST EDITION OF THE STANDARDS AND SPECIFICATIONS, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL APPLY.
2. THE CONTRACTOR MUST BE FAMILIAR WITH OWNER & CITY CONSTRUCTION STANDARDS AND OTHER PROCEDURES PRIOR TO BIDDING AND CONSTRUCTION. IGNORANCE OF CONSTRUCTION SPECIFICATIONS SHALL NOT BE A BASIS FOR CHANGE ORDERS, WORK DELAYS, OR ADDITIONAL COMPENSATION.
3. ALL MATERIAL REQUIRED TO COMPLETE THE WORK AS SHOWN OR IMPLIED IN THE CONSTRUCTION PLANS AND AS SPECIFIED IN THE CONTRACT DOCUMENTS THAT ARE NOT LISTED AS A PAY ITEM IN THE PROPOSAL SHALL BE CONSIDERED SUBSIDIARY.
4. THE LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM FIELD MARKINGS, PHYSICAL APPURTENANCES AND UTILITY COMPANY RECORDS AND ARE CONSIDERED APPROXIMATE. THE ENGINEER DOES NOT CERTIFY THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES AND DEPTHS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION BY CONTACTING TEXAS EXCAVATION SAFETY SYSTEM (800-DIG-TESS) AND RELEVANT UTILITY COMPANIES 48 HOURS PRIOR TO LOCATING EXISTING UTILITIES OR CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL PROTECT ALL ADJACENT ON & OFF-SITE PAVING, UTILITIES, TREES AND OTHER EXISTING STRUCTURES FROM DAMAGE PRIOR TO & DURING CONSTRUCTION. ANY DAMAGE THAT OCCURS FROM CONSTRUCTION OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, EMISSIONS, TRENCHING, SHORING, AND SITE SAFETY.
7. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE TO THE ENGINEER PRIOR TO BEGINNING WORK.
8. THE CONTRACTOR SHALL PROTECT ALL PAVEMENT INCLUDING SIDEWALKS THAT ARE OUTSIDE THE LIMITS OF DISTURBANCE FROM DAMAGE ESPECIALLY AT CONSTRUCTION ENTRANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED PAVEMENT.
9. THE CONTRACTOR MAY REMOVE ALL FENCING WITHIN THE LIMITS OF DISTURBANCE THAT INTERFERE WITH CONSTRUCTION OPERATIONS, EXCEPT IN AREAS WHERE LIVESTOCK IS PRESENT. WHERE TEMPORARY FENCING IS REQUIRED, IT SHALL BE OF SUFFICIENT DESIGN TO KEEP LIVESTOCK PENNED. ANY LOOSE LIVESTOCK THAT RESULT FROM INADEQUATE FENCING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. POSITIVE DRAINAGE MUST BE MAINTAINED FOR ALL DRAINAGE SWALES, CULVERTS AND CREEKS INCLUDING INTERMITTENT STREAMS AFFECTED BY CONSTRUCTION OPERATIONS. ANY WORK NECESSARY TO DAM OR DIVERT EXISTING DRAINAGE WAYS TO COMMENCE CONSTRUCTION SHALL BE CONSIDERED SUBSIDIARY.
11. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED TO INCLUDE BUT NOT BE LIMITED TO ROCK, RUBBLE, DEBRIS, TRASH, ETC. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE. SPOILS MAY BE DISPOSED OF ON-SITE ONLY WITH PRIOR APPROVAL FROM THE ENGINEER AND ONLY IN LOCATIONS APPROVED BY THE ENGINEER.
12. AT SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIAL, FORM-WORK, TRASH, EQUIPMENT, OR ANY OTHER SUPERFLUOUS OR WASTE MATERIAL FROM THE SITE, INCLUDING EROSION CONTROL DEVICES (SEE EROSION CONTROL AND SOIL MANAGEMENT NOTES).
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK INVOLVING FRANCHISE UTILITIES WITH UTILITY OWNERS.
14. IF A TRAFFIC CONTROL PLAN HAS NOT BEEN PROVIDED BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL INCLUDING THE USE OF ALL TRAFFIC CONTROL DEVICES USED TO WARN MOTORISTS OF THE CONSTRUCTION ACTIVITY. ALL TRAFFIC CONTROL MUST CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS FOR THE OWNER/CITY'S USE. THE CONTRACTOR SHALL PROVIDE THE CITY & OWNER CLEAN AND ACCURATE FULL SIZE REPRODUCIBLE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ALL CONSTRUCTION AND ANY DEVIATIONS FROM THE PLANS.
17. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS THAT ARE APPROVED BY THE CITY AND ENGINEER.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING, QUALITY CONTROL, AND MATERIALS TESTING.
19. ALL EFFORTS SHALL BE MADE TO AVOID DAMAGE TO EXISTING TREES THAT ARE TO REMAIN. TREES SHALL BE TRIMMED AND PAINTED ONLY IF NECESSARY FOR THE SAFE MANEUVERING OF CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL REQUEST APPROVAL FROM THE OWNER FOR REMOVAL OF ANY TREES. WHEN EXCAVATING AROUND A TREE, THE ROOTS SHALL BE CLEAN CUT PRIOR TO ANY EXCAVATION WORK. DO NOT SNAG AND TEAR TREE ROOTS.
20. THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED TO BE SUBMITTED BY THE CONTRACT SPECIFICATIONS. ANY WORK PERFORMED OR MATERIALS USED THAT ARE REQUIRED TO BE SUBMITTED BUT HAVE NOT BEEN REVIEWED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE SHALL NOT BE PAID FOR OR SHALL BE PAID FOR AT A REDUCED RATE. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE PROOFREAD AND REVIEWED BY THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO SUBMITTAL TO THE ENGINEER. SUBCONTRACTOR / GENERAL CONTRACTOR SHALL CLEARLY INDICATE, MARK, HIGHLIGHT, AND PROPERLY CLARIFY PRODUCTS TO BE CONSIDERED FOR APPROVAL. SUBMITTALS NOT PROOFREAD OR REVIEWED OR CLARIFIED PROPERLY SHALL BE RETURNED UNREVIEWED. CONTRACTOR SHALL RESUBMIT SHOP DRAWINGS AND ALLOW FOR SUITABLE REVIEW TIME. SUITABLE REVIEW TIME SHALL BE NO MORE TEN (10) WORKING DAYS.

Dimension Control Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES, BENCHMARKS, MONUMENTS, ETC. WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY **Mc KIM & CREED** DATED **AUG 07, 2023.**
2. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL SIGNS, BARRICADES, AND LIGHTING OR WARNING DEVICE(S) USED/REQUIRED WITH THIS WORK.
4. ALL UNLABELED CURB RADII SHALL BE 2.0 FEET TYPICAL.
5. ALL DIMENSIONS ARE FROM EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
6. ALL BUILDING DIMENSIONS ARE TO FACE OF BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSION INFORMATION.
7. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS AND DIMENSIONS OF LANDSCAPE HARDSCAPE AREAS.

Site Demolition Plan Notes:

1. EXISTING TOPOGRAPHIC SURVEY AND LOCATION OF PHYSICAL FEATURES WERE OBTAINED FROM A TOPOGRAPHIC SURVEY PERFORMED BY **Mc KIM & CREED** DATED **AUG 07, 2023.**
2. NO DEMOLITION ACTIVITIES SHALL COMMENCE UNTIL ALL PERMITS ARE OBTAINED AND PERIMETER EROSION CONTROL MEASURES ARE IN PLACE.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE AREA OF CONSTRUCTION.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION.
5. EXISTING SANITARY SEWER AND WATER UTILITY LINES ARE TO REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR TO MAKE PROVISIONS TO KEEP THESE UTILITIES IN SERVICE. ALL PROPOSED SHUT DOWNS OF UTILITIES MUST BE COORDINATED WITH THE OWNER.
6. ALL TRAFFIC CONTROL MEASURES, BARRICADES AND PROJECT SIGNS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE LOCAL GOVERNING AGENCY REQUIREMENTS.
7. PROVIDE EROSION AND SEDIMENTATION CONTROLS AS SHOWN ON THE DRAWINGS AND MAINTAIN FOR THE DURATION OF THE PROJECT. PROVIDE ROUTINE MAINTENANCE AS REQUIRED BY THE SWPPP PLAN TO MAINTAIN THE INTEGRITY OF CONTROLS AND PROTECTION MEASURES AND REMOVE ANY ACCUMULATIONS OF MUD, SILT AND DEBRIS, WHICH WOULD JEOPARDIZE THE INTEGRITY OF THE CONTROL MEASURES. REFER TO DRAWINGS FOR DETAILS
8. CONTRACTOR SHALL EXERCISE CARE DURING OPERATIONS TO CONFINE DUST TO THE IMMEDIATE WORK AREA AND SHALL EMPLOY DUST CONTROL MEASURES TO ENSURE ADEQUATE DUST CONTROL THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS.
9. EXPOSED SUBGRADE BENEATH PAVED AREAS SHALL BE PROOF ROLLED TO DETECT WEAK SOIL SUPPORT AREAS. THESE AREAS WILL BE REMOVED AND REPLACED WITH SITE EXCAVATED MATERIALS OR IMPORTED MATERIALS HAVING THE SAME PROPERTIES AS SITE MATERIALS.
10. THE CONTRACTOR SHALL NOT DAMAGE ANY FENCES, DRIVES, PAVEMENT, UTILITIES OR OTHER EXISTING FACILITIES INTENDED TO REMAIN. DAMAGE TO ADJOINING PROPERTY OUTSIDE THE LIMITS OF DISTURBANCE OR OTHER ITEMS INTENDED TO REMAIN SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING AGENCIES REGARDING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
12. THE CONTRACTOR SHALL REMOVE AND DISPOSAL OF ANY ON-SITE TRASH, DEBRIS, OR DEMOLITION MATERIALS. DISPOSAL OF ALL DEMOLITION MATERIALS OR PRE-EXISTING ON-SITE TRASH AND DEBRIS SHALL NOT BE ITEMIZED AND PAID FOR AS SEPARATE ITEMS BUT SHALL BE SUBSIDIARY TO THE CONTRACT PRICE.
13. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, BENCHMARKS, CONTROL POINTS, ETC, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
15. THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, CONDUIT, AND CABLES, REGARDLESS OF DEPTH, IN THE AREA OF THE PROPOSED BUILDING(S) FOUNDATIONS. (UNLESS NOTED OTHERWISE)
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT THE PROPERTY LINE; OR AT THE UTILITY MAIN AS REQUIRED BY THE UTILITY OWNER.
17. REFER TO LANDSCAPE DRAWINGS FOR TREE DEMOLITION AND PROTECTION.
18. REFER TO DEMOLITION ITEMS WITHIN OTHER DISCIPLINES' DOCUMENTS FOR COORDINATION NOTES.

Grading Plan Notes:

1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE DISTURBED AREAS OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
2. NO ABRUPT CHANGE OF GRADE SHALL OCCUR IN THE DRIVEWAYS, PARKING AREAS OR SIDEWALKS.
3. UTILITIES SHOWN ON THE PLANS ARE FROM THE BEST INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, TYPE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM THE PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
4. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
5. ALL CONSTRUCTION AREAS WITHIN THE SITE SHALL BE STRIPPED OF VEGETATION AND LOOSE TOPSOIL. ANY POCKETS OF DEBRIS ENCOUNTERED SHOULD ALSO BE REMOVED.
6. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR FILL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING OFFSITE AND ONTO ADJACENT PROPERTY OR CROSSING ADJACENT STREETS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS THAT WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS.
8. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. WITHIN THE AREA OF CONSTRUCTION. THEY MUST BE ADJUSTED TO PROPERTY LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PALCEMENT OF PAVING AND GRADING AT NO ADDITIONAL COST TO THE OWNER.
9. SIDEWALKS SHALL HAVE A RUNNING SLOPE NOT GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.

Paving Plan Notes:

1. UNLESS OTHERWISE NOTED, REFER TO SPECIFICATION DETAILS FOR SUBGRADE COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. REFER TO THE MOST RECENT GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
3. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE TO THE ARCHITECT'S LANDSCAPE PLANS AND/OR MEP PLANS. NEW IRRIGATION SLEEVES SHOWN HEREON ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. (REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS.)
4. ALL PARKING STRIPING SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
5. INSTALL ACCESSIBLE PARKING STALLS, AISLES, SYMBOLS, SIGNAGE AND WHEELSTOPS IN ACCORDANCE WITH ADA/TAS STANDARDS. STRIPING WILL BE COLORED PER TAS APPROVED COLOR PAINT
6. SIDEWALKS SHALL HAVE A RUNNING SLOPE NOT GREATER THAN 5% AND A CROSS SLOPE NOT GREATER THAN 2%, UNLESS OTHERWISE NOTED.
7. SAWED JOINTS SHALL BE SPACED AT INTERVALS OF 15 FEET MAXIMUM AND AT ALL RADIUS RETURNS. SAWED JOINTS SHALL BE PERPENDICULAR TO ALL CURVES. JOINTS SHALL BE SAWED WITHIN 12 HOURS AFTER CONCRETE IS POURED.
8. SAWED JOINTS SHALL MATCH THE EXISTING PAVEMENT JOINT PATTERN WHERE NEW PAVEMENT IS CONSTRUCTED ADJACENT TO EXISTING CONCRETE PAVEMENT.
9. ALL MANHOLES, INLETS, LIGHT BASES, AND OTHER STRUCTURES SHALL BE ISOLATED FROM THE NEW PAVEMENT WITH PREFORMED ASPHALTIC EXPANSION MATERIAL.
10. ADJUST EXISTING TOP OF MANHOLE RIMS AND EXISTING WATERLINE VALVE BOXES TO FINISHED GRADE ELEVATIONS.
11. FOR PAVING PATTERNS, FINISHES AND MATERIALS REFER TO ARCHITECTURAL OR LANDSCAPE DRAWINGS.
12. NEW IRRIGATION SLEEVES SHOWN HEREON ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS.
13. CARE SHALL BE TAKEN NOT TO PLACE CONCRETE DURING INCLEMENT WEATHER. CONCRETE AGGREGATE THAT HAS BEEN EXPOSED DUE TO RAINFALL BEFORE THE CONCRETE HAS SET-UP SHALL NOT BE ACCEPTED AND MUST BE REPLACED.
14. EXPOSED SUBGRADE BENEATH PAVED AREAS SHALL BE PROOF ROLLED TO DETECT WEAK SOIL SUPPORT AREAS. WEAK AREAS WILL BE REMOVED AND REPLACED WITH SITE EXCAVATED MATERIALS OR IMPORTED MATERIALS HAVING THE SAME PROPERTIES AS SITE MATERIALS.

Striping and Accessible Notes:

1. ALL PARKING AND ACCESSIBLE STRIPING SHALL BE WHITE 4" SOLID LINES UNLESS NOTED OTHERWISE.
2. ANY ACCESSIBLE STALL OR AISLE MARKINGS AND IDENTIFICATION WILL BE ADDRESSED BY THE CITY OR STATE LAWS, TAS/ADA STANDARDS AND DETAILS UNLESS NOTED OTHERWISE.
3. PAVEMENT MARKING SYMBOL OF ACCESSIBILITY SHALL BE PLACED TOWARD THE FAR END OF THE PARKING STALL SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE. SYMBOL OF ACCESSIBILITY MAY BE PAINTED OR PREFABRICATED MATERIAL AND SHALL BE 30"x30" MINIMUM. COLOR WILL BE PER LATEST TAS/ADA STANDARDS OR PER CITY STANDARDS.
4. ALL ACCESSIBLE STALLS SHALL BE 8 FEET WIDE MINIMUM AND BE ACCOMPANIED BY AN ACCESS AISLE THAT SHALL BE 5 FEET WIDE MINIMUM. VAN ACCESSIBLE PARKING SHALL BE A TOTAL OF 16 FEET WIDE MINIMUM WHEN INCLUDING THE ADJACENT ACCESS AISLE. (REFER TO TAS BULLETIN 68.104 FOR LATEST REQUIREMENTS).
5. ALL ACCESSIBLE STALLS SHALL HAVE A INTERNATIONAL APPROVED R7-8a SIGN MOUNTED AT A MINIMUM HEIGHT OF 60" ABOVE THE SURFACE OF THE FINISHED GROUND. IN ADDITION TO THE SIGN, EACH VAN ACCESSIBLE STALL SIGN SHALL CONTAIN A "VAN ACCESSIBLE" & A "VIOLATORS SUBJECT TO FINE AND TOWING" PLACARD ALONG WITH THE R7-8a SIGN.
6. POST MOUNTED SIGNS SHALL BE PLACED APPROXIMATELY 1 FOOT BEHIND THE CURB OR SIDEWALK. WHEEL STOPS WILL BE PLACED APPROXIMATELY 2 FEET IN FRONT OF FACE OF CURB AT CENTER. SALVAGE EXISTING SIGNS AND WHEEL STOPS FOR RE-USE.
7. ACCESSIBLE STALLS AND AISLES MUST NOT EXCEED 2% (1:48) IN ANY DIRECTION. CURB RAMPS MUST NOT EXCEED A LONGITUDINAL SLOPE OF 1:12 OR A CROSS SLOPE OF 1:48. ANY RAMPS EXCEEDING THESE SLOPES MUST BE REMOVED AND RE-POURED. USE CARE DURING PAVING OPERATIONS.
8. ALL CROSSWALK STRIPING SHALL BE WHITE, 12 to 24 INCHES WIDE AND SPACED 24 to 48 INCHES APART. THE CROSSWALK STRIPING SHALL BE SPACED TO AVOID WHEEL PATHS.
9. STOP BARS STRIPING SHALL BE WHITE, 12 to 24 INCHES WIDE AND PLACED A MINIMUM 4 FEET IN ADVANCE OF ALL CROSSWALK STRIPING.
10. CROSSHATCHING SHOWN ON THE PLANS SHALL BE 24" WIDE AND TYPICALLY SPACED 20 FEET APART. COLOR SHALL BE PER DETAILS UNLESS NOTED OTHERWISE.

Erosion Control Plan Notes:

1. THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING STORM WATER DISCHARGE AND EROSION & SEDIMENT CONTROL.
2. FOR ALL EROSION CONTROL IN THE PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL MAKE REFERENCE TO THE CITY OF **DALLAS** DETAILS AND/OR CONSTRICTION MANUAL FOR ACCEPTABLE CONSTRUCTION CONTROL GUIDELINES AND DETAILS NOT PROVIDED.
3. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE BEGINNING SOILS DISTURBING ACTIVITIES.
4. CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL AREAS ON SITE THAT MAY NEED TO BE DISTURBED FOR LAY DOWN AREA, STAGING, ETC...
5. REFER TO SHEET C05.01 FOR ADDITIONAL EROSION CONTROL INFORMATION, NOTES AND DETAILS.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED
PROFESSIONAL ENGINEER
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10-22-2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220247 TBPE FIRM 7986

KEYPLAN

Sheet Title
GENERAL NOTES

Sheet Number
C00.01



GRAPHIC SCALE

0 40 80

(IN FEET)
1 inch = 40 ft.

Survey Legend

	EXISTING BUILDING
	ASPHALT
	CONCRETE
IRF	IRON ROD FOUND
IRFC	CAPPED IRON ROD FOUND
IRS	IRON ROD SET
CM	CONTROL MONUMENT
	LIGHT POLE
	POWER POLE
	GUY WIRE
	BURIED CABLE MARKER
T	COMMUNICATIONS MANHOLE
E	ELECTRIC MANHOLE
G	GAS MANHOLE
S	SANITARY SEWER MANHOLE
D	STORM SEWER MANHOLE
W	WATER MANHOLE
CO	CLEAN OUT
	WATER VALVE
AR	AIR RELEASE VALVE
GV	GAS VALVE
	GAS METER
	WATER METER
	FIRE HYDRANT
	TELEPHONE PEDESTAL
T	TELECOM PEDESTAL
TCB	TRAFFIC CONTROL BOX
E	ELECTRIC BOX
	TRAFFIC SIGNAL
	SIGN
	GRATE INLET
	BOUNDARY LINE
	EASEMENT LINE
OHE	OVERHEAD POWER
X X	FENCE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED
PROFESSIONAL
ENGINEER

10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10-22-2025
Revised:

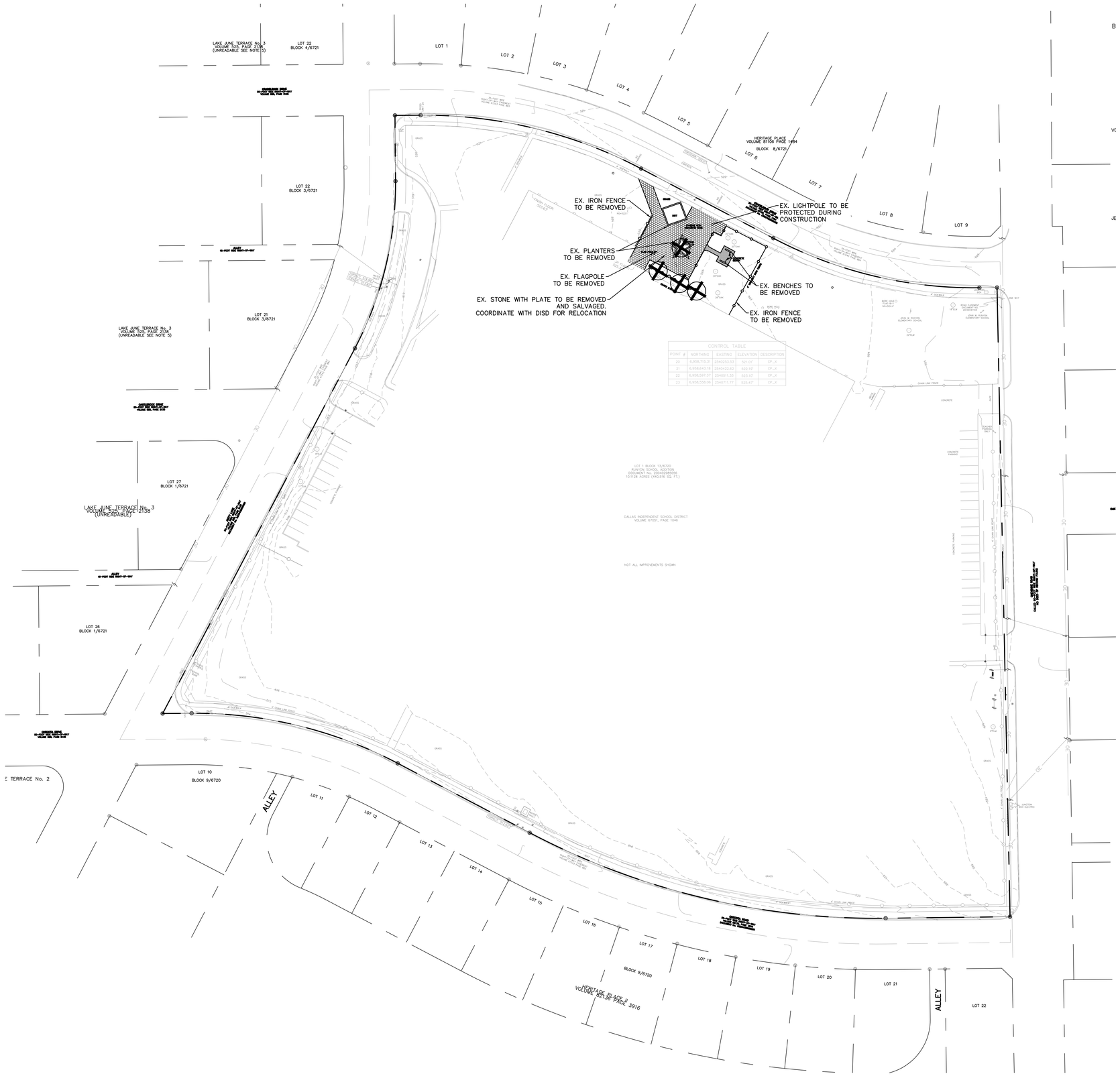
shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220247 TBPE FIRM 7986

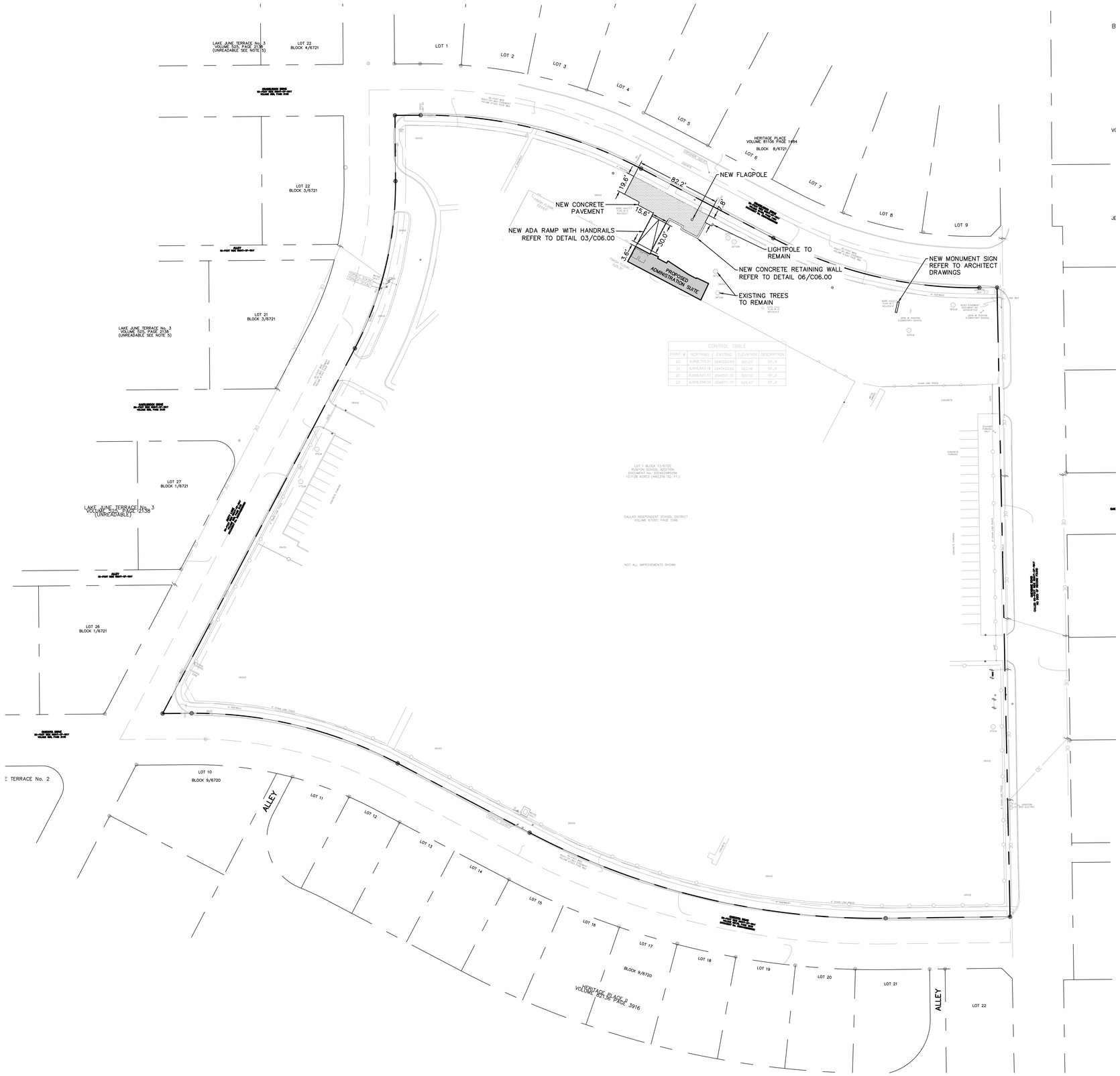
KEYPLAN



Sheet Title
EXISTING CONDITIONS

Sheet Number
C01.00


LAKE JUNE TERRACE No. 3
VOLUME 525, PAGE 2138
(UNREADABLE SEE NOTE 5)
LOT 22
BLOCK 4/6721
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
HERITAGE PLACE
VOLUME 81106 PAGE 1984
BLOCK 8/6721
LOT 6
LOT 7
LOT 8
LOT 9
LOT 22
BLOCK 3/6721
LOT 21
BLOCK 3/6721
LOT 27
BLOCK 1/6721
LOT 26
BLOCK 1/6721
LOT 10
BLOCK 9/6720
ALLEY
LOT 11
LOT 12
LOT 13
LOT 14
LOT 15
LOT 16
LOT 17
LOT 18
LOT 19
LOT 20
LOT 21
LOT 22
BLOCK 9/6720
HERITAGE PLACE
VOLUME 83130 PAGE 3916
EX. IRON FENCE TO BE REMOVED
EX. LIGHTPOLE TO BE PROTECTED DURING CONSTRUCTION
EX. PLANTERS TO BE REMOVED
EX. FLAGPOLE TO BE REMOVED
EX. STONE WITH PLATE TO BE REMOVED AND SALVAGED. COORDINATE WITH DISD FOR RELOCATION
EX. BENCHES TO BE REMOVED
EX. IRON FENCE TO BE REMOVED
CONTROL TABLE
POINT # | NORTHING | EASTING | ELEVATION | DESCRIPTION
20 | 6,958,715.31 | 2540253.53 | 521.01' | CP_X
21 | 6,958,643.18 | 2540422.82 | 522.19' | CP_X
22 | 6,958,597.37 | 2540511.33 | 523.10' | CP_X
23 | 6,958,558.06 | 2540711.77 | 525.47' | CP_X
LOT 1 BLOCK 13/8720
RUNYON SCHOOL ADDITION
DOCUMENT No. 20040298056
10.1128 ACRES (440,516 SQ. FT.)
DALLAS INDEPENDENT SCHOOL DISTRICT
VOLUME 87091, PAGE 1046
NOT ALL IMPROVEMENTS SHOWN
JOHN W. RUNYON ELEMENTARY SCHOOL
BRICK VENEER
FOUNDATION
CONCRETE PAVEMENT
BRICK PAVERS
SHADE STRUCTURE
SHADE STRUCTURE
SHADE STRUCTURE



Site Plan Legend

- PROPOSED BUILDING
- FULL DEPTH SAWCUT [APPROXIMATE LOCATION]
- EXISTING OR PROPOSED SIGN
- NEW LIGHT DUTY CONCRETE PAVEMENT

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED
ARCHITECT
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

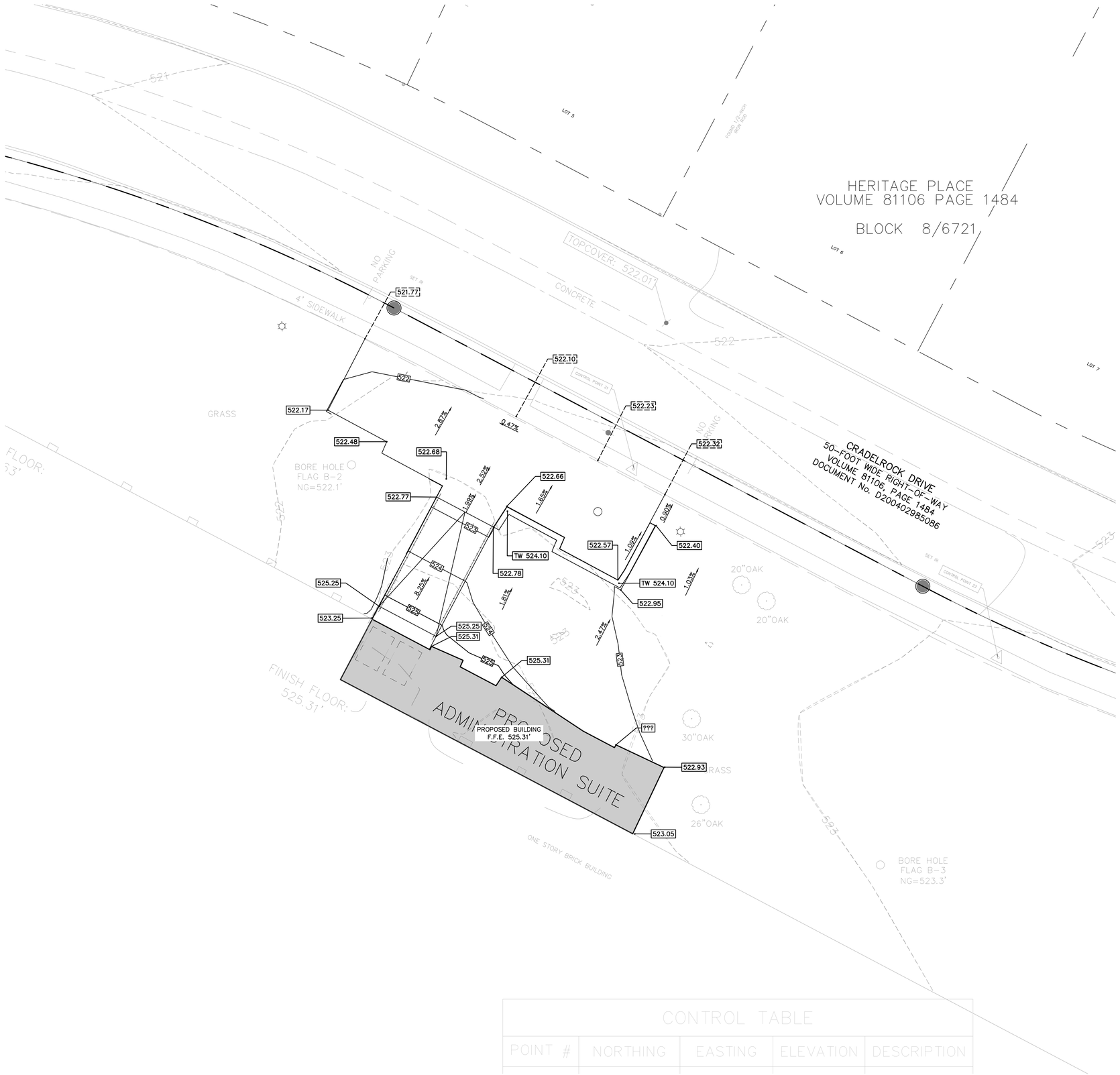
Issue Date
10-22-2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75207
972.352.7340
PROJECT NO: 4220247
TBPE FIRM 7986

KEYPLAN

Sheet Title
ENGINEERING SITE PLAN

Sheet Number
C03.00



N

GRAPHIC SCALE
0 10 20
(IN FEET)
1 inch = 10 ft.

CITY OF DALLAS STAMP

Legend

	MATCH EXISTING AT SAWCUT
	SWALE/LOW POINT FLOW DIRECTION
	PROPERTY LINE (RIGHT-OF-WAY LIMITS)
478	EXISTING CONTOUR AND ELEVATION
478	PROPOSED CONTOUR AND ELEVATION
477.09	MATCH EXISTING ELEVATION
477.09	PROPOSED SPOT GRADE
TC	TOP OF CURB ELEVATION
G	GUTTER ELEVATION
TP	TOP OF PAVEMENT
TG	TOP OF GRATE
TOP	TOP OF STRUCTURE
TW	TOP OF WALL AT GRADE
BW	BOTTOM OF WALL AT GRADE
TS	TOP OF STAIR ELEVATION
BS	BOTTOM OF STAIR ELEVATION
BC	BUILDING CORNER AT GRADE
FF	FINISHED FLOOR ELEVATION
NG	NATURAL GRADE
H. P. / L. P.	ELEVATION HIGH POINT / ELEVATION LOW POINT
0.0%	% SLOPE/GRADE
	FLOW DIRECTION
N: #### E: ####	LOCATION BY **STATE PLANE COORDINATES**

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED
PROFESSIONAL
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10-22-2025
Revised:

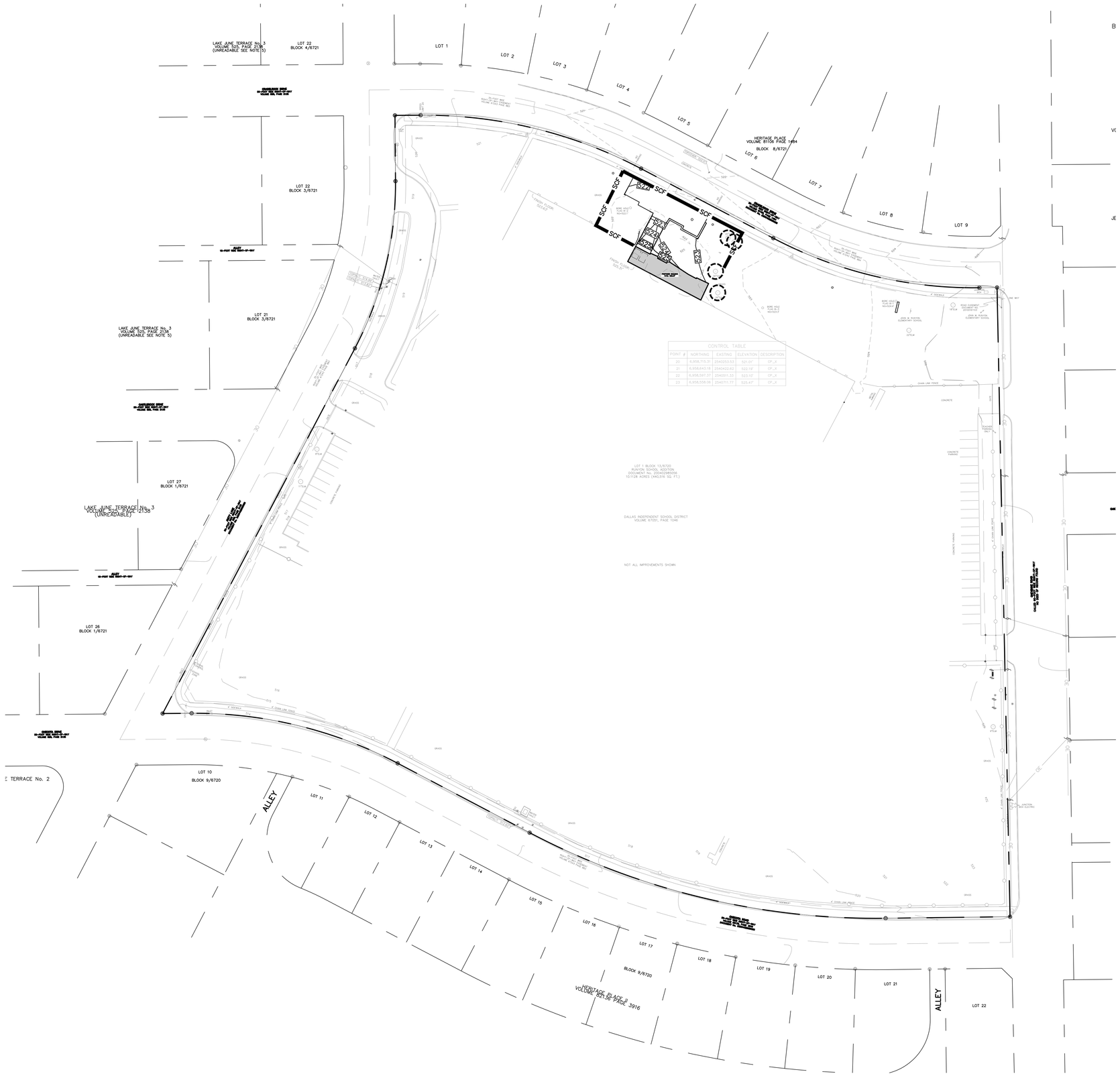
shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220247 TBPE FIRM 7986

KEYPLAN



Sheet Title
GRADING PLAN

Sheet Number
C04.00



N

GRAPHIC SCALE

0 40 80

(IN FEET)
1 inch = 40 ft.

Legend

- 478 — EXISTING CONTOUR AND ELEVATION
- 478 — PROPOSED CONTOUR AND ELEVATION
- SCF — SILT FENCE **(SEE DETAIL 01/C05.01)**
- TREE PROTECTION **(SEE DETAIL 02/C05.01)**

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED
PROFESSIONAL
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

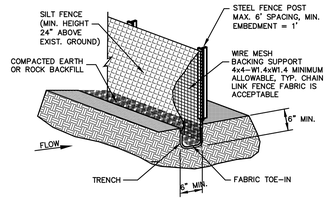
Issue Date
10-22-2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220247 TBPE FIRM 7986

KEYPLAN

Sheet Title
EROSION CONTROL PLAN

Sheet Number
C05.00

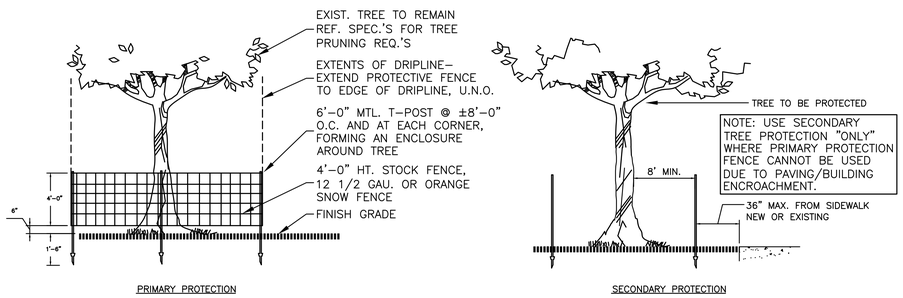


ISOMETRIC PLAN VIEW

SILT FENCE GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

01 SILT FENCE INSTALLATION
N.T.S.



PRIMARY PROTECTION

SECONDARY PROTECTION

02 TREE PROTECTION
N.T.S.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED
PROFESSIONAL
LANDSCAPE ARCHITECT
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10-22-2025
Revised:

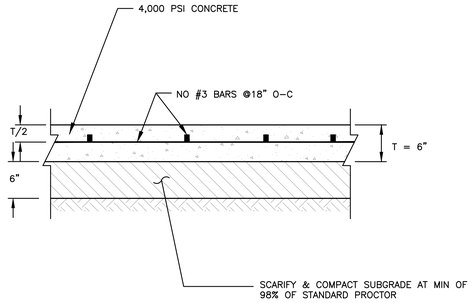
shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201 DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220247 TBPE FIRM 7986

KEYPLAN

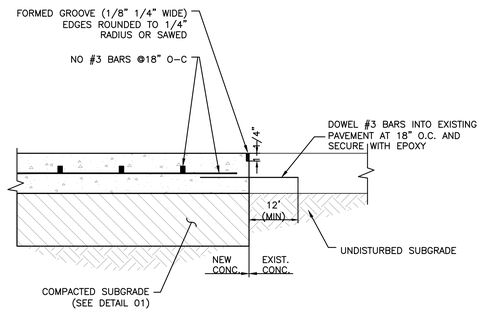


Sheet Title
EROSION CONTROL DETAILS

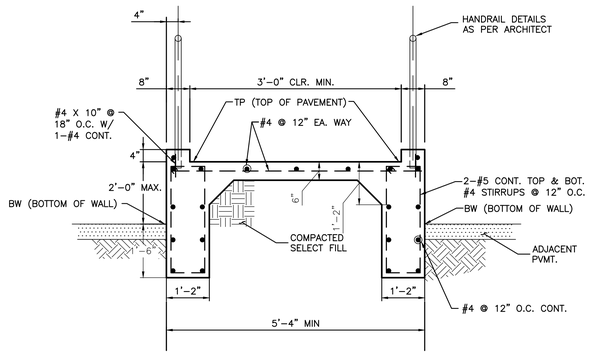
Sheet Number
C05.01



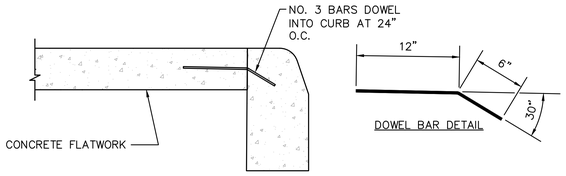
01 CONCRETE PAVEMENT SECTION
N.T.S.



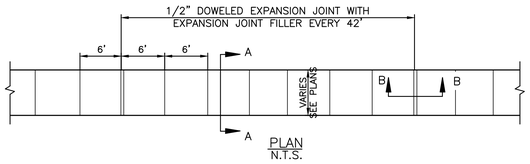
02 CONCRETE PAVEMENT CONNECTION
N.T.S.



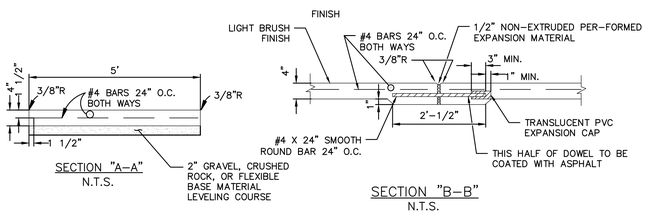
03 RAMP DETAIL
N.T.S.



CONCRETE CURB/CONCRETE FLATWORK JUNCTION
N.T.S.

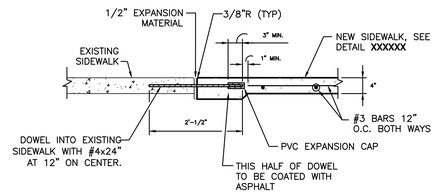


PLAN
N.T.S.

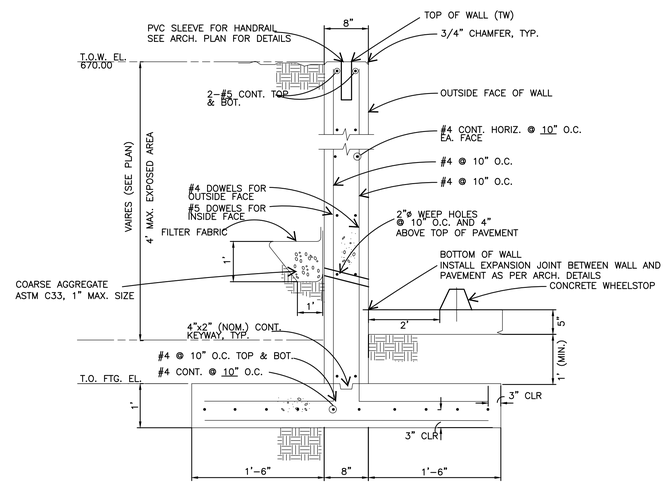


NOTE:
1. CROSS SLOPE OF SIDEWALK SHALL BE 1:50 MAXIMUM.
2. SEE PLANS FOR WIDTH.
3. SIDEWALK SHALL BE 4" 3000 PSI CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
4. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
5. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.
6. DOWEL INTO EXISTING SIDEWALK WITH NO.4 X 24" ON CENTER.
7. REFERENCE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
8. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
9. ALL JOINTS TO BE SEALED.

04 REINFORCE CONCRETE SIDEWALK
N.T.S.



05 TO NEW SIDEWALK
TYPICAL EXISTING SIDEWALK
N.T.S.



06 TYPICAL RETAINING WALL DETAIL (H>4')
N.T.S.

NOTES:
1. FOOTING SHALL BE PLACED ON UNDISTURBED EXISTING SOIL OR ROCK. FOOTING EXCAVATION SHALL BE INSPECTED BY THE GEOTECHNICAL LABORATORY TO DETERMINE THAT THE PROPER BEARING STRATUM IS OBTAINED AND THAT EXCAVATIONS ARE PROPERLY CLEAN & DRY BEFORE CONCRETE PLACED.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
OVIDIU M. SIPOS
111707
LICENSED PROFESSIONAL ENGINEER
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

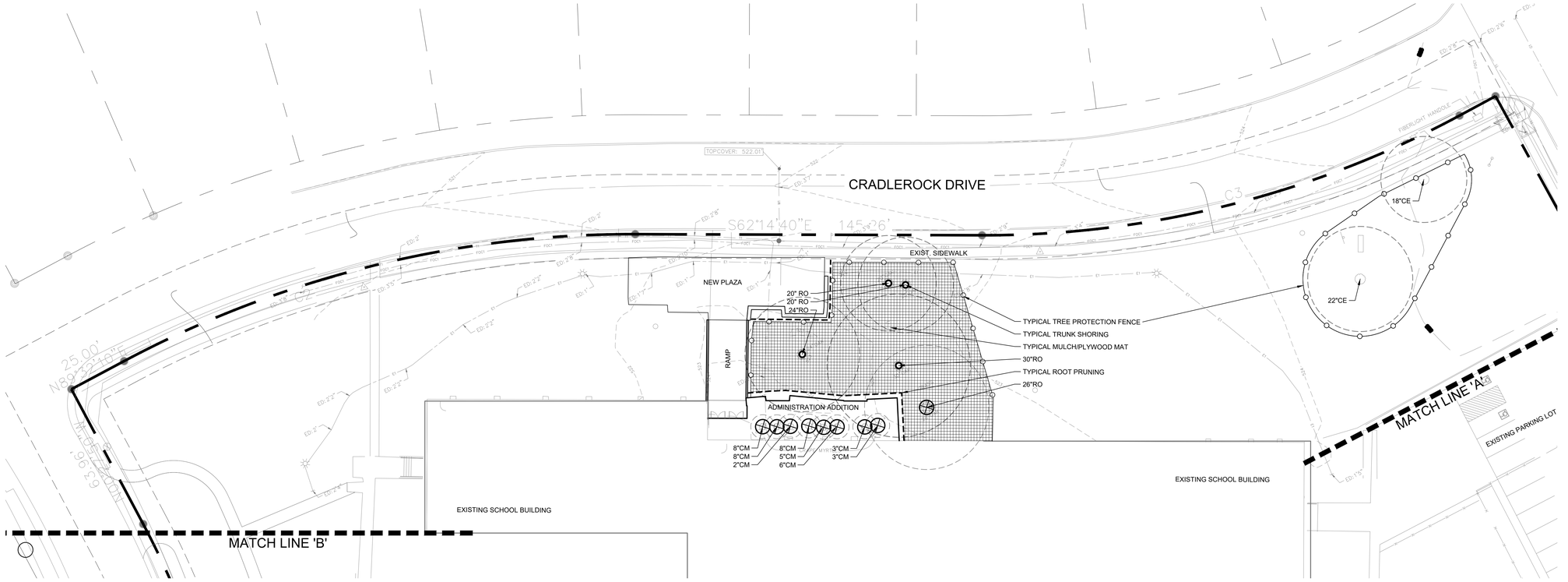
Issue Date
10-22-2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
100 GLASS STREET, SUITE 201
DALLAS, TEXAS 75207
972.392.7340
PROJECT NO: 4220247
TBPE FIRM 7986

KEYPLAN

Sheet Title
CIVIL DETAILS

Sheet Number
C06.00



1 TREE CONSERVATION PLAN
1" = 20'-0"

0 10 20 40ft

NORTH

TREE CONSERVATION AND REMOVAL LIST

TREE CONSERVATION AND REMOVAL LIST (Only Includes Trees within 50-feet of Construction)

Tree Number	Description	Cal Inches	Protected	Removed	Class	Mitigation Ratio	Cal Inches to Mitigate	Mitigation Fee	Tree Credit	Note
1	CRAPEMYRTLE	8	Y	Y	Class 3	0.4:1.0	3.20	$ 617.60	0	
2	CRAPEMYRTLE	8	Y	Y	Class 3	0.4:1.0	3.20	$ 617.60	0	
3	CRAPEMYRTLE	2	N	Y	Unprotected	0.0:1.0	0.00	$ -	0	<8"
4	CRAPEMYRTLE	8	Y	Y	Class 3	0.4:1.0	3.20	$ 617.60	0	
5	CRAPEMYRTLE	5	N	Y	Unprotected	0.0:1.0	0.00	$ -	0	<8"
6	CRAPEMYRTLE	6	N	Y	Unprotected	0.0:1.0	0.00	$ -	0	<8"
7	CRAPEMYRTLE	3	N	Y	Unprotected	0.0:1.0	0.00	$ -	0	<8"
8	CRAPEMYRTLE	3	N	Y	Unprotected	0.0:1.0	0.00	$ -	0	<8"
9	RED OAK	24	Y	N	Significant	1.5:1.0	0.00	$ -	8	
10	RED OAK	30	Y	N	Significant	1.5:1.0	0.00	$ -	10	
11	RED OAK	26	Y	Y	Significant	1.5:1.0	39.00	$ 7,527.00	8	
12	RED OAK	20	Y	N	Class 2	0.7:1.0	0.00	$ -	4	
13	RED OAK	20	Y	N	Class 2	0.7:1.0	0.00	$ -	4	
14	CEDAR ELM	22	Y	N	Class 2	0.7:1.0	0.00	$ -	8	
15	CEDAR ELM	18	Y	N	Class 2	0.7:1.0	0.00	$ -	4	
16	CEDAR ELM	8	Y	N	Class 2	0.7:1.0	0.00	$ -	1	
17	CEDAR ELM	12	Y	N	Class 2	0.7:1.0	0.00	$ -	2	
18	CEDAR ELM	12	Y	N	Class 2	0.7:1.0	0.00	$ -	2	
	TOTALS:	235					48.60	$ 9,379.80	51	
	YES:			13	9					
	NO:			5	9					

NOTES: REFER TO SHEET L4.00 FOR FINAL MITIGATION PLANTING AND FEES (IF APPLICABLE).

Tree Classifications	Ratio	Fee Per Caliper Inch	
Historic Tree	3.0:1.0	$579	
Significant Tree	1.5:1.0	$290	Tree 24" or greater / 12" Post Oak or greater
Class 1 Tree	1.0:1.0	$193	50 ft. above escarpment zone
Class 2 Tree	0.7:1.0	$135	not class 1 or 3 tree
Class 3 Tree	0.4:1.0	$77	AA, BW, CW, HB, HL, Mesq, MIM, MB, ornamental, P, SM, SB
Unprotected	0.0:1.0	$0	Tree species listed below and trees 8 caliper inches or less.

Unprotected Species: Callery pear (all cultivars), chinaberry, Chinese tallow, Ilex species (except yaupon holly and Possumhaw), palm (all plants in Palmae), tree-of-heaven (Ailanthus), other trees listed as invasive plants; and trees with a diameter of less than 10 inches at the point on the trunk 4.5 feet above the ground, located on a lot with an existing single family or duplex use that is occupied at the time of removal.

PRE-CONSTRUCTION MEETING: PRIOR TO ANY TREE PROTECTION, DEMOLITION, OR CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CONDUCT A MEETING WITH DISD STAFF ARBORIST, GENERAL CONTRACTOR, AND ANY AFFECTED SITE SUBCONTRACTORS TO ESTABLISH PARAMETERS/EXPECTATIONS OF TREE PROTECTION. CONTACT MARCOS CASIANO, GROUNDS AND ATHLETICS PROJECT MANAGER AT 469-835-0292 OR MCASIANO@DALLASISD.ORG.

NOTE: DO NOT PARK, DRIVE, STAGE MATERIALS OR OTHERWISE PLACE ANYTHING UNDER EXISTING TREES TO REMAIN, INCLUDING TREES NOT SHOWN WITH TREE PROTECTION FENCING. WHETHER OR NOT TREE PROTECTION FENCING IS SHOWN, ALL EXISTING TREES TO REMAIN ONSITE SHALL BE PROTECTED WITH THE UTMOST IMPORTANCE AND PROVIDED WITH TREE CARE AS DIRECTED BY AN ISA CERTIFIED, EXPERIENCED ARBORIST. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE: REFER TO CIVIL SHEETS FOR PAVING AND GRADE CUTS ADJACENT TO EXISTING TREES. PERFORM ANY ADDITIONAL PROTECTION MEASURES UNDER THE GUIDANCE OF AN ISA CERTIFIED ARBORIST.

TREE CONSERVATION NOTES: REFER TO SHEET L1.01.

TREE CONSERVATION DETAILS: REFER TO SHEET L1.02.

TREE CONSERVATION SPECIFICATIONS: 015639

GENERAL NOTES

1. VERIFY SITE INFORMATION INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURB AND GUTTER, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL DRAWINGS. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS.
2. EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES PRIOR TO BEGINNING EXCAVATION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
3. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINE, EASEMENTS, EXISTING BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE SURVEY AND CIVIL ENGINEER'S DRAWINGS. SURVEY HAS BEEN PROVIDED BY OTHERS. ENGINEERS, ARCHITECTS, AND LANDSCAPE ARCHITECTS ARE NOT RESPONSIBLE FOR INFORMATION PROVIDED BY OTHERS. FOR ADDITIONAL INFORMATION REFER TO CIVIL ENGINEERING DRAWINGS.
4. CARE SHALL BE TAKEN TO PRESERVE AND PROTECT FULLY THE EXISTING BUILDINGS, PAVEMENTS, PLANTING, AND IRRIGATION TO REMAIN. RESTORE DAMAGED ITEMS TO ORIGINAL CONDITION OR BETTER.
5. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES AND THE GENERAL CONTRACTOR TO REQUEST LOCATION OF EXISTING AND NEWLY-INSTALLED UNDERGROUND UTILITIES. HAND-EXCAVATE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO EXCAVATION.

TREE CONSERVATION NOTES

1. TREE PROTECTION MUST OCCUR PRIOR TO BEGINNING SITE WORK.
2. ALL PROTECTED TREES MUST BE FLAGGED WITH COLORED VINYL TAPE WRAPPED AROUND THE MAIN TRUNK AT A HEIGHT OF AT LEAST 4 FEET SO AS TO BE VISIBLE TO WORKER ON FOOT OR DRIVING EQUIPMENT.
3. ALL EXISTING TREES ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION UNLESS DESIGNATED AS "TO BE REMOVED" ON THE DRAWINGS. CHAINLINK OR ORANGE SAFETY FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AS INDICATED ON PLANS AT THE DRIPLINE OR THE CRITICAL ROOT ZONE (WHICHEVER IS GREATER) OF THE TREE OR GROUP OF TREES TO REMAIN.
4. A PROTECTED TREE (DESIGNATED TO REMAIN ON THE PLAN) MUST HAVE PROTECTIVE FENCING WHICH COMPLETELY ENCLOSES THE DRIP LINE OF THE TREE UNTIL CONSTRUCTION IS COMPLETED. FENCING TO BE HELD 3 FEET FROM EDGE OF CANOPY DRIP LINE OR TO EDGE OF ADJACENT HARDSCAPE.
5. PROVIDE MINIMUM 3" DEPTH OF DECOMPOSED COARSELY SHREDDED HARDWOOD MULCH OVER ROOT ZONES OF ALL TREES TO REMAIN WITHIN CONSTRUCTION AREAS AS SHOWN. REFER TO SPECIFICATION SECTION 01 5639.
6. PARKING OF VEHICLES OR PERFORMING WORK WITHIN DRIP LINES OR CRITICAL ROOT ZONES OF ANY EXISTING TREES, OTHER THAN AS SHOWN ON THE PLANS, WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING THE ENTIRE CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL ARBORIST'S SOCIETY STANDARDS AND.
7. THE CONTRACTOR SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO THE EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL DEMOLITION AND TRASH REMOVAL ADJACENT TO EXISTING TREES SHALL BE COMPLETED USING HAND TOOLS WHERE POSSIBLE. NO LARGE EQUIPMENT OR ANY EQUIPMENT WITH TRACKS SHALL BE ALLOWED UNDER THE DRIPLINE OF ANY EXISTING TREES TO REMAIN. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE DRIPLINE OF TREES TO REMAIN.
8. DISPOSAL OF WASTE MATERIAL, SUCH AS, BUT NOT LIMITED TO: EXCESS SOIL, PAINT, ASPHALT, OIL, SOLVENTS, CONCRETE, MORTAR, ETC, WITHIN THE DRIPLINE OF THE EXISTING TREES SHALL NOT BE ALLOWED.
9. NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE SHALL BE ATTACHED TO ANY TREE.
10. TREE PRUNING SHALL COMPLY WITH ARBORIST'S PRACTICES AND AS PER SPECIFICATION SECTION 015639. REMOVE ALL DEADWOOD FROM TREE CANOPIES. PROVIDE REPAIR TO EXISTING DAMAGED TREES PER ARBORIST'S RECOMMENDATIONS. REMOVE SUCKERS FROM TRUNKS AND LIMB UP LOWER BRANCHES TO MIN. 7' CLEAR AT BOTTOM OF CANOPY, UNLESS TREE IS TOO SMALL FOR THIS PROCEDURE.
11. NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIPLINE OF A TREE TO REMAIN OR BE PROTECTED UNLESS SPECIFIED ON THE PLANS. DO NOT STOCKPILE SUB-SOILS UNDER THE TREE DRIPLINE. ALL EXCAVATION DONE WITHIN THE TREE DRIPLINE SHALL BE HAND DUG UNDER THE SUPERVISION OF OWNER'S REPRESENTATIVE.
12. TREE PROTECTION SHALL REMAIN IN-PLACE UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND ONLY REMOVED UPON APPROVAL BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE.
13. WHERE NEW UTILITY LINES ARE CONSTRUCTED WITHIN THE DRIP LINE OF EXISTING TREES, MECHANICALLY BORE THE NEW UTILITY LINE OR ROOT PRUNE THE EXISTING TREE. MECHANICALLY BORE THE UTILITY LINE IF IT IS WITHIN THE DRIP LINE AND WITHIN FIFTEEN FEET OF THE TRUNK OF THE TREE. ROOT PRUNE THE TREE IF THE UTILITY LINE IS WITHIN THE DRIP LINE BUT GREATER THAN FIFTEEN FEET AWAY FROM THE TREE'S TRUNK. REFER TO SPECIFICATIONS FOR BORING AND ROOT PRUNING REQUIREMENTS.
14. WHERE NEW IRRIGATION LINES ARE CONSTRUCTED WITHIN THE DRIP LINE OF EXISTING TREES, HAND DIG OR AIR SPADE LINE IF IT IS WITHIN THE DRIP LINE AND WITHIN FIFTEEN FEET OF THE TRUNK OF THE TREE. ROOT PRUNE THE TREE IF THE LINE IS WITHIN THE DRIP LINE BUT GREATER THAN FIFTEEN FEET AWAY FROM THE TREE'S TRUNK. REFER TO SPECIFICATIONS FOR HAND DIGGING, AIR SPADING, AND ROOT PRUNING REQUIREMENTS.

NOTE: REFERENCE SPECIFICATIONS FOR REPLACEMENT COSTS OF EXISTING TREES DAMAGED OR KILLED DURING CONSTRUCTION ACTIVITIES.

TREE CONSERVATION LEGEND

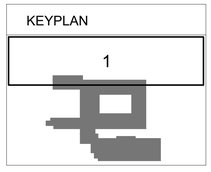
- EXISTING TREE TO REMAIN AND BE PRESERVED. EMPLOY TREE PROTECTION FENCING, ROOT PRUNING, TRUNK SHORING, AND MULCH/PLYWOOD MAT AS NEEDED.
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING
- 2x4 TRUNK SHORING
- MULCH/PLYWOOD MAT WHERE EQUIPMENT IS OPERATED WITHIN DRIP LINES OF TREES - 3" COARSE MULCH BED COVERED WITH CONTINUOUS 3/4-INCH PLYWOOD MAT

CCA LANDSCAPE ARCHITECTS

CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

CITY OF DALLAS STAMP

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT
JACQUELYN CLARK SZAJKOWSKI
3165
STATE OF TEXAS
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

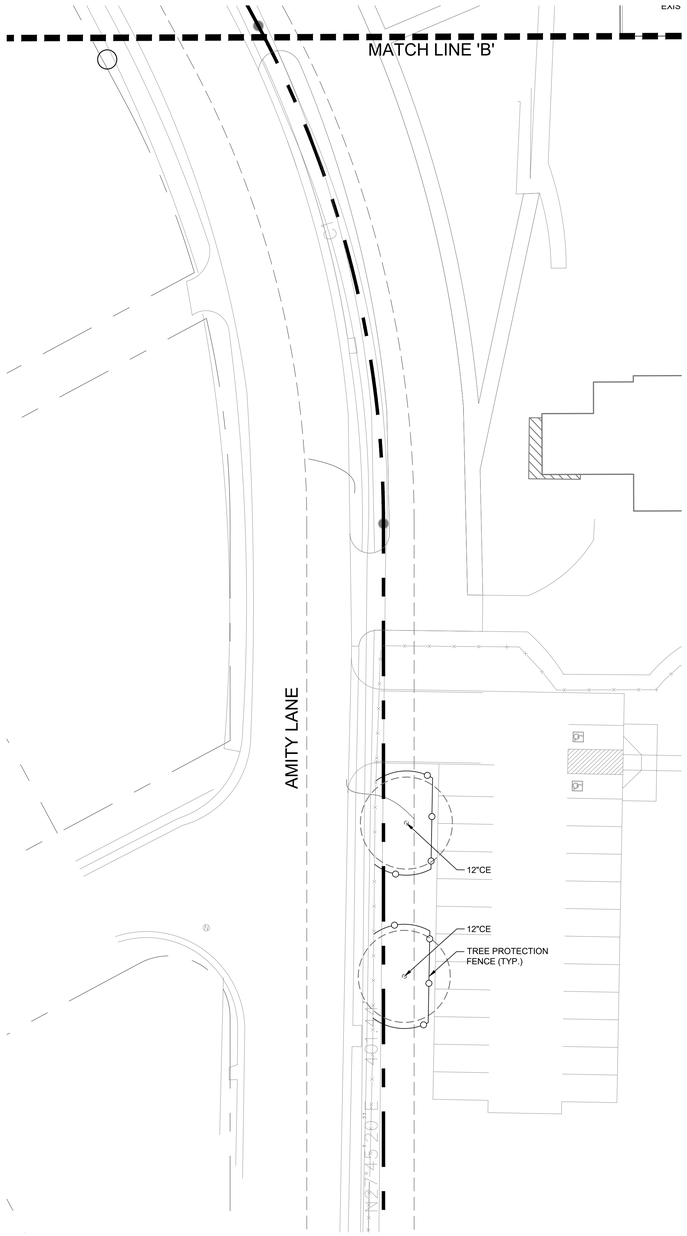
Project Number
2022.012

Issue Date
10.22.25

Revised:

Sheet Title
TREE CONSERVATION PLAN

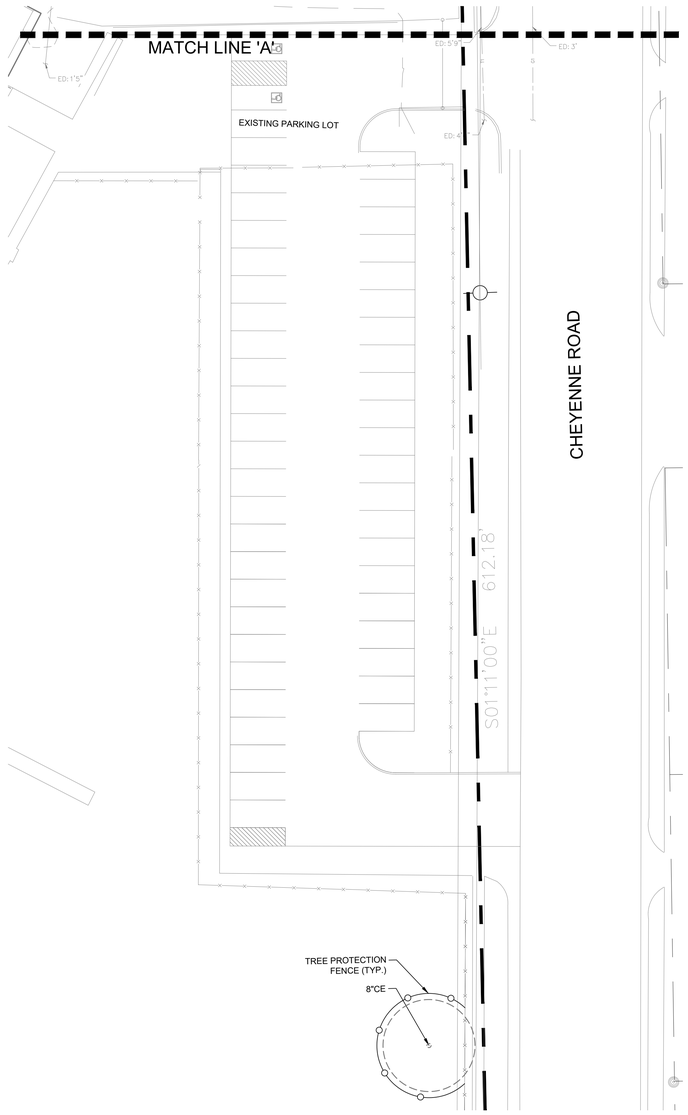
Sheet Number
L1.00



2 TREE CONSERVATION PLAN
1" = 20'-0"

0 10 20 40ft

NORTH



1 TREE CONSERVATION PLAN
1" = 20'-0"

0 10 20 40ft

NORTH

CITY OF DALLAS STAMP

TREE CONSERVATION LEGEND

- EXISTING TREE TO REMAIN AND BE PRESERVED. EMPLOY TREE PROTECTION FENCING, ROOT PRUNING, TRUNK SHORING, AND MULCH/PLYWOOD MAT AS NEEDED.
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING
- 2x4 TRUNK SHORING
- MULCH/PLYWOOD MAT WHERE EQUIPMENT IS OPERATED WITHIN DRIP LINES OF TREES - 3" COARSE MULCH BED COVERED WITH CONTINUOUS 3/4-INCH PLYWOOD MAT

PRE-CONSTRUCTION MEETING: PRIOR TO ANY TREE PROTECTION, DEMOLITION, OR CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL CONDUCT A MEETING WITH DISD STAFF ARBORIST, GENERAL CONTRACTOR, AND ANY AFFECTED SITE SUBCONTRACTORS TO ESTABLISH PARAMETERS/EXPECTATIONS OF TREE PROTECTION. CONTACT MARCOS CASIANO, GROUNDS AND ATHLETICS PROJECT MANAGER AT 469-835-0292 OR MCASIANO@DALLASISD.ORG.

NOTE: DO NOT PARK, DRIVE, STAGE MATERIALS OR OTHERWISE PLACE ANYTHING UNDER EXISTING TREES TO REMAIN, INCLUDING TREES NOT SHOWN WITH TREE PROTECTION FENCING. WHETHER OR NOT TREE PROTECTION FENCING IS SHOWN, ALL EXISTING TREES TO REMAIN ONSITE SHALL BE PROTECTED WITH THE UTMOST IMPORTANCE AND PROVIDED WITH TREE CARE AS DIRECTED BY AN ISA CERTIFIED, EXPERIENCED ARBORIST. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE: REFER TO CIVIL SHEETS FOR PAVING AND GRADE CUTS ADJACENT TO EXISTING TREES. PERFORM ANY ADDITIONAL PROTECTION MEASURES UNDER THE GUIDANCE OF AN ISA CERTIFIED ARBORIST.

TREE CONSERVATION NOTES: REFER TO SHEET L1.01.

TREE CONSERVATION DETAILS: REFER TO SHEET L1.02.

TREE CONSERVATION SPECIFICATIONS: 015639

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT
JACQUELYN CLARK SZAFRANIC
STATE OF TEXAS
3165
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

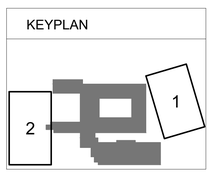
© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25
Revised:

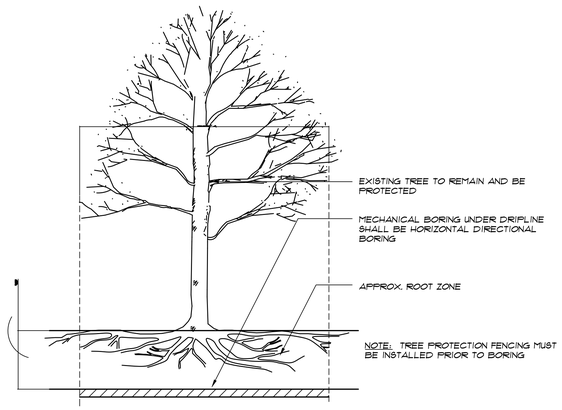
CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

KEYPLAN

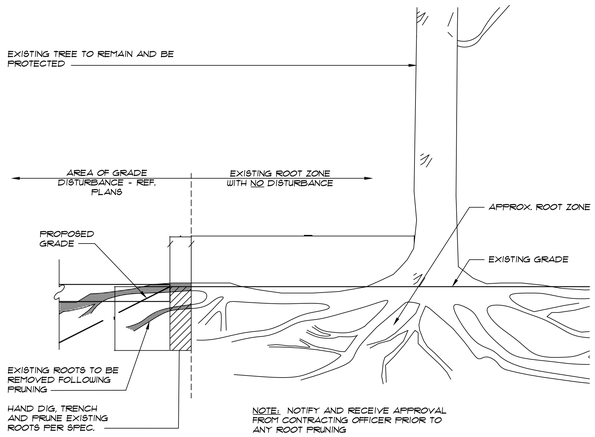


Sheet Title
TREE CONSERVATION PLAN

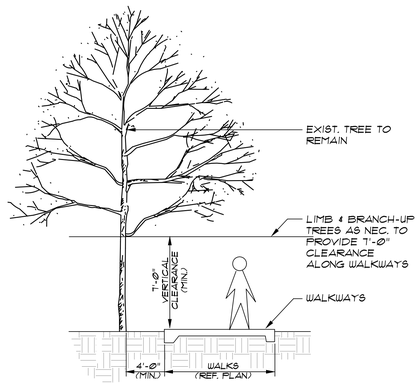
Sheet Number
L1.01



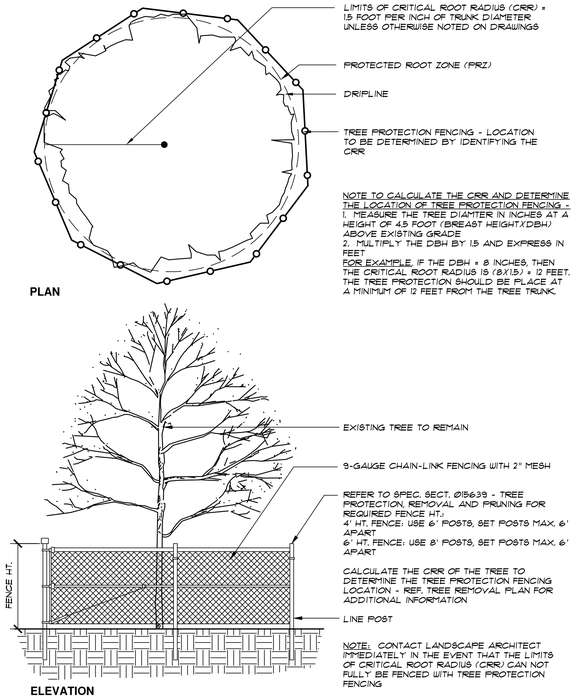
6 BORING UNDER OR NEAR CROWN DRIPLINE - ELEV.
NOT TO SCALE



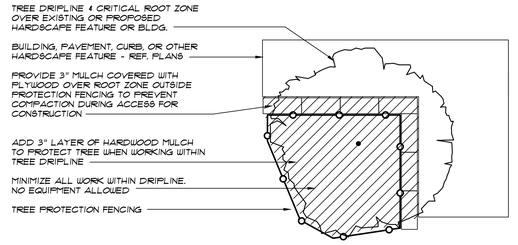
7 ROOT PRUNING AT EXISTING TREES - SECTION
NTS



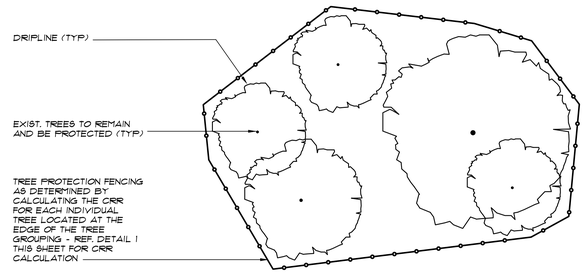
4 TREE CLEARANCE AT WALK
NOT TO SCALE



5 TREE PROTECTION FENCING - CHAIN LINK FENCE
NOT TO SCALE



1 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE



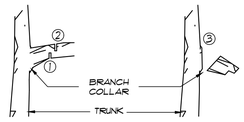
2 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE

USE TO REMOVE TREE LIMBS AS NECESARY. COMPLY WITH HORTICULTURAL PRACTICES.

STEP 1: SAW BOTTOM CUT APPROX. 6-12" AWAY FROM TRUNK AND APPROX. ⅓ OF THE WAY THROUGH THE LIMB.
STEP 2: MAKE A SECOND CUT APPROX. 3" FURTHER FROM THE TRUNK THAN THE FIRST CUT UNTIL THE WEIGHT OF THE BRANCH PULLS THE BRANCH DOWN.
STEP 3: CUT THE STUB BACK TO THE COLLAR OF THE BRANCH - DO NOT CUT FLUSH WITH TRUNK.

REMOVE AND DISPOSE OF ALL BRANCHES PER NOTES ON SHEET L1 AND SPECIFCATIONS.

NOTE: PRIOR TO LIMB REMOVAL ON EXISTING TREES, GET WRITTEN PERMISSION AND FIELD VERIFICATION FROM OWNER'S REPRESENTATIVE.



3 3-CUT LIMB PRUNING
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT
JACQUELYN CLARK SZAFRANIC
3165
STATE OF TEXAS
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

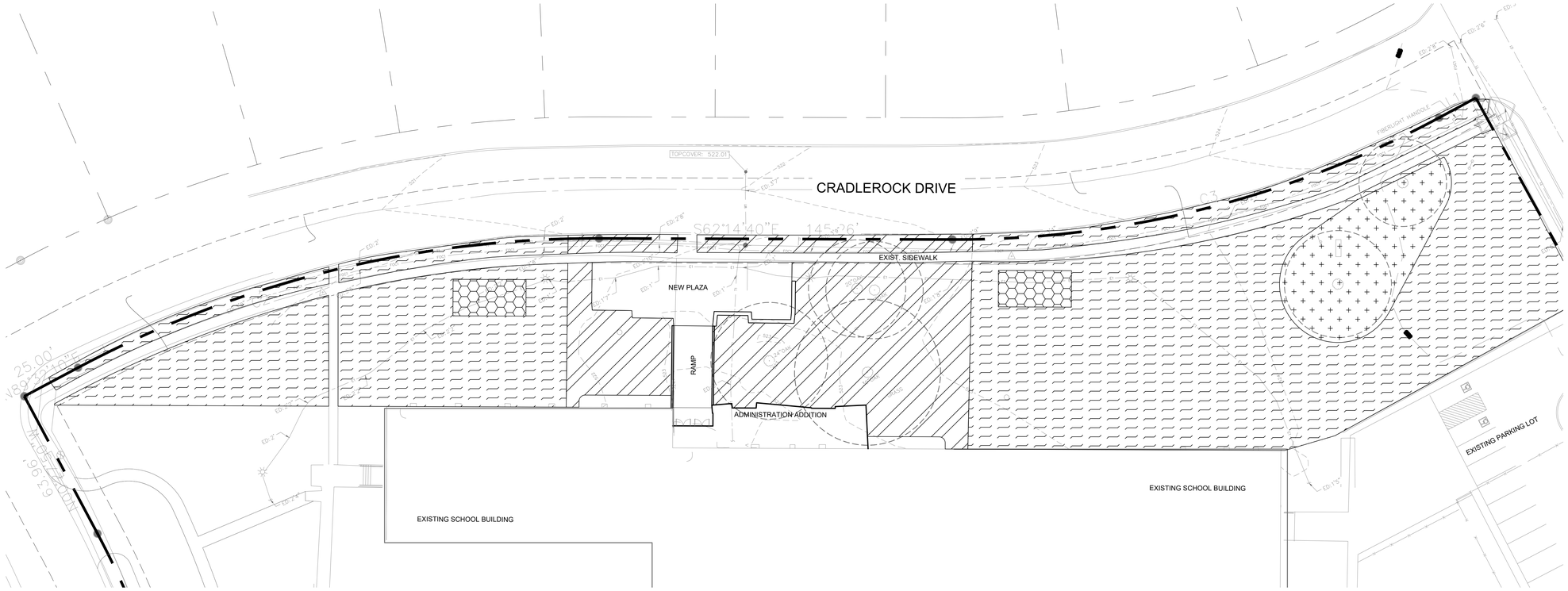
Project Number
2022.012

Issue Date
10.22.25
Revised:

CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

KEYPLAN

Sheet Title
TREE CONSERVATION DETAILS
Sheet Number
L1.02



1 SOIL RESOURCE PLAN
1" = 20'-0"

0 10 20 40ft

NORTH

SOIL RESOURCE LEGEND

EXISTING TREE TO REMAIN AND BE PRESERVED. EMPLOY TREE PROTECTION FENCING, ROOT PRUNING, TRUNK SHORING, AND MULCH MATTING AS NEEDED.

ZONE 1 -
PROTECTED ZONE: SOIL AND VEGETATION NOT DISTURBED

ZONE 2 -
ZONE FOR SOIL AMENDMENT OR TREATMENT WITH MINIMAL DISTURBANCE

ZONE 3 -
ZONE OF CONSTRUCTION TRAFFIC AND STAGING

ZONE 4 -
ZONE FOR STOCKPILING TOPSOIL AND IMPORTED SOIL AMENDMENT

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT
JACQUELYN CLARK SZAFRANIC
3165
STATE OF TEXAS
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

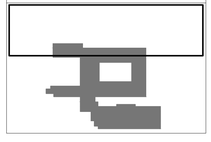
© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25
Revised:

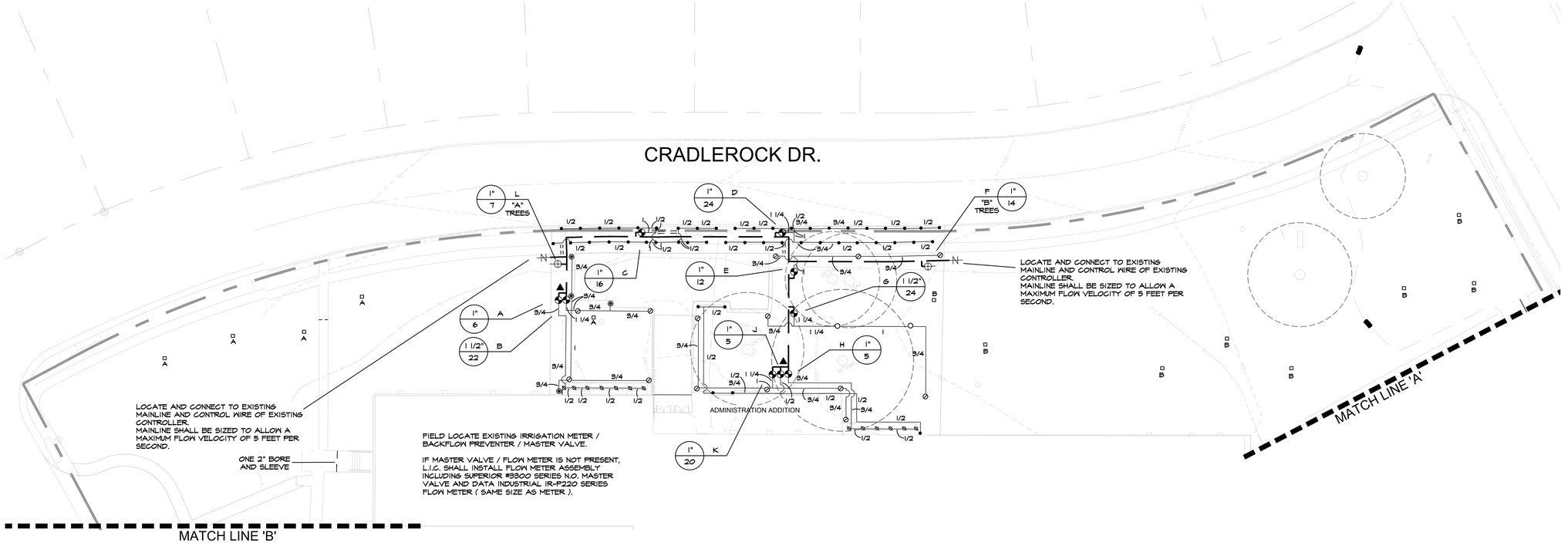
CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

KEYPLAN



Sheet Title
SOIL RESOURCE PLAN

Sheet Number
L2.01



1 IRRIGATION PLAN
1" = 20'-0"

0 10 20 40ft
NORTH

LEGEND

- ▫ HUNTER PROS-06-NSI-PRS30 SERIES POP UP SPRAY HEADS WITH HUNTER MSBN-50H STREAM BUBBLER NOZZLES. (TWO PER TREE) SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- HUNTER PROS-12-SI-PRS30 SERIES POP UP SPRAY HEAD WITH PRO SPRAY SERIES NOZZLE AS NOTED BELOW
- • HUNTER PROS-04-PRS30 SERIES POP UP SPRAY HEAD WITH PRO SPRAY SERIES NOZZLE AS NOTED BELOW
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH BL-5201 SINGLE STATION DECODER
- ⊕ HUNTER ICV SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE WITH BL-5201 SINGLE STATION DECODER SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- ◉ HUNTER PSP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #1.55R BLACK NOZZLE UNLESS NOTED OTHERWISE
- ⊘ HUNTER PSP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #4.0 BLUE NOZZLE UNLESS NOTED OTHERWISE
- ○ HUNTER PSP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, FULL CIRCLE, #8.0 BLUE NOZZLE UNLESS NOTED OTHERWISE
- ▲ HUNTER HQ-33-LRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- ─N─ LASCO "VIOIN" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE
- ——— CLASS 200 PVC MAINLINE PIPE
- ——— CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE
- = = = TWO 4" CLASS 200 SLEEVE PIPES, UNLESS NOTED OTHERWISE

BORES SHALL BE REQUIRED AT ALL EXISTING PAVING CROSSINGS WHERE EXISTING SLEEVES ARE NOT PRESENT.

L.I.C. SHALL SELECT PRO-SPRAY SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

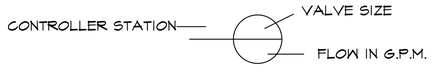
EQUIPMENT AND INSTALLATION SHALL MEET ALL DALLAS INDEPENDENT SCHOOL DISTRICT IRRIGATION REQUIREMENTS. L.I.C. SHALL COORDINATE WITH D.I.S.D. STANDARDS / SPECS PRIOR TO CONSTRUCTION.

COORDINATION WITH EXISTING TREES

NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.

TEMPORARY IRRIGATION

THE CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN AND PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF ALL PROPOSED PLANT MATERIALS LOCATED OUTSIDE THE LIMITS OF COVERAGE PROVIDED BY THE PERMANENT SYSTEM.



SITE WIDE: CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF DAMAGE CREATED DURING CONSTRUCTION, STAGING, AND STORAGE ACTIVITIES INCLUDING, BUT NOT LIMITED TO, EXISTING IRRIGATION EQUIPMENT, EXISTING LANDSCAPING, AND EXISTING SIDEWALKS / HARDSCAPE.

COORDINATION WITH EXISTING IRRIGATION

THE CONTRACTOR SHALL VISIT THE SITE BEFORE CONSTRUCTION BEGINS TO BECOME FAMILIAR WITH THE EXISTING SYSTEM LAYOUT. REROUTE, REPAIR, OR REINSTALL EXISTING EQUIPMENT, INCLUDING MAINLINE AND CONTROL WIRES, AS REQUIRED, TO MAINTAIN CONTINUED AUTOMATIC OPERATION OF ALL AREAS OUTSIDE THE LIMITS OF WORK. PROTECT EXISTING EQUIPMENT WITHIN THE LIMITS OF WORK, WHICH IS INTENDED TO REMAIN. CONTRACTOR SHALL KEEP EXISTING IRRIGATION (OUTSIDE OF THE SCOPE OF WORK) OPERABLE DURING CONSTRUCTION. L.I.C. SHALL RE-WORK EXISTING IRRIGATION TO INCLUDE AND ACCOUNT FOR NEW PLANTINGS. RE-WORKED IRRIGATION SHALL BE INSTALLED ACCORDING TO STATE SPECIFICATIONS.

*THE IRRIGATION CONTRACTOR SHALL CONFIRM THE FOLLOWING REQUIREMENTS FOR CONNECTION TO THE EXISTING MAINLINE PIPE AND CONTROL WIRE OF EXISTING CONTROLLER BEFORE WORK BEGINS. IF CONDITIONS ARE NOT MET, DO NOT PROCEED UNTIL INSTRUCTED BY LANDSCAPE ARCHITECT.:

1. EXISTING MAINLINE
   CONFIRM MAINLINE PIPE IS SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND.
2. EXISTING IRRIGATION METER
   CONFIRM COMBINED EXISTING AND NEW ZONES SHALL OPERATE WITHIN ALLOWABLE WATERING TIMES AND FLOW LIMITATIONS PROVIDED BY EXISTING METER.
3. EXISTING CONTROLLER
   CONFIRM EXISTING CONTROLLER HAS AVAILABLE CAPACITY FOR NEW ZONES. UPGRADE CONTROLLER IF CAPACITY IS NOT AVAILABLE. IF EXISTING CONTROLLER IS A "TWO-WIRE" CONTROLLER, ALL NEW, VALVES SHALL REQUIRE SINGLE-STATION DECODERS.

- NEW SHRUB AND GROUND COVER BEDS SHALL RECEIVE NEW IRRIGATION AS INDICATED ON THE PLAN, INSTALLED AS DIRECTED.
- DISTURBED TURF AREAS SHALL RECEIVE NEW IRRIGATION OR RENOVATIONS TO THE EXISTING SYSTEM, PROVIDING COMPLETE COVERAGE TO ALL AFFECTED AREAS.
- L.I.C. SHALL LOCATE AND CONNECT TO THE EXISTING SYSTEM MAINLINE AND CONTROLLERS.
- NEW OR RENOVATED TURF HEADS SHALL BE ZONED SEPARATELY FROM SHRUB IRRIGATION.
- NEW IRRIGATION PIPES SHALL BE SIZE TO ALLOW A MAXIMUM FLOW VELOCITY OF FIVE FEET PER SECOND.
- RENOVATIONS SHALL INCLUDE MEETING ALL CURRENT CODES, INCLUDING THE ADDITION OF A BALL VALVE AND WYE FILTER IF A D.C.A. BACKFLOW PREVENTER IS PRESENTLY USED.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE PROPER, AUTOMATIC COVERAGE TO ALL AREAS WITH MINIMUM OPERATING PRESSURES OF 25 PSI AT SPRAY HEAD NOZZLES AND 35 PSI AT ROTARY HEAD NOZZLES.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
REGISTERED
658
LICENSED IRRIGATOR
10 / 22 / 2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25
Revised:

CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P. 214-739-9105

James Pole
IRRIGATION CONSULTANTS
IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT
TEXAS L.I.C. #656
P.O. BOX 1545
DENTON, TEXAS 76202
PHONE: 940.243.2364
jamesejamespoleirrigation.com

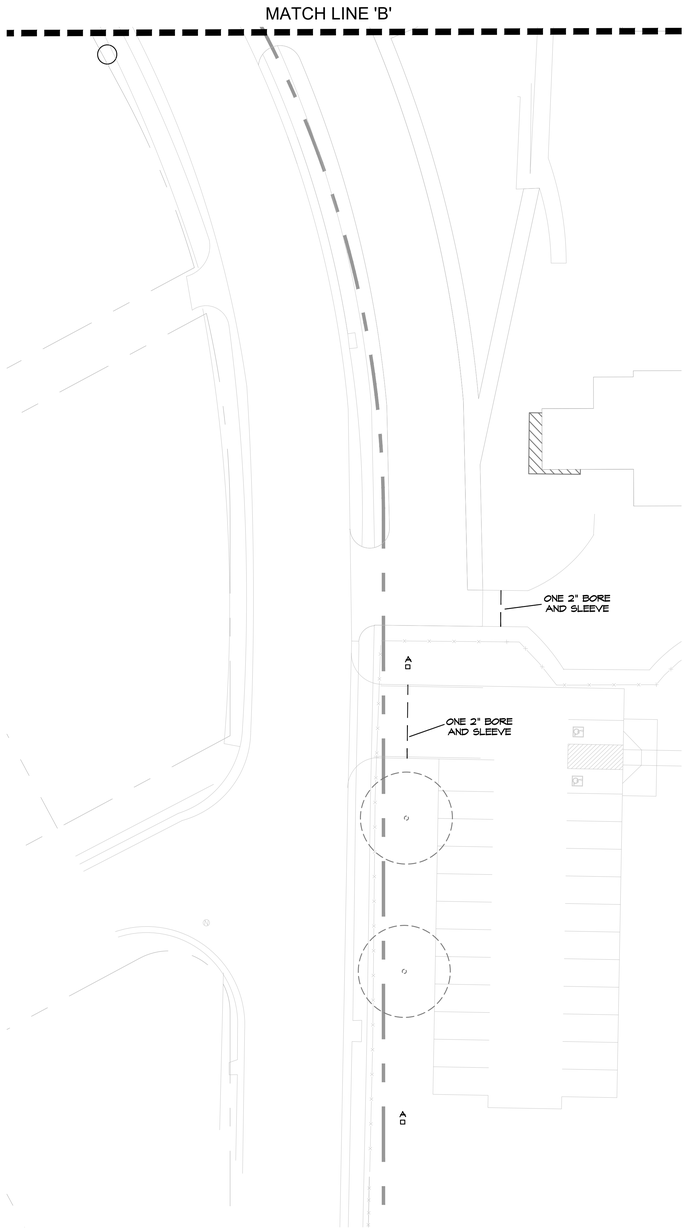
EPA WaterSense PARTNER

IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (MC-178) P.O. BOX 13087 T.C.E.Q.'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

KEYPLAN

Sheet Title
IRRIGATION PLAN

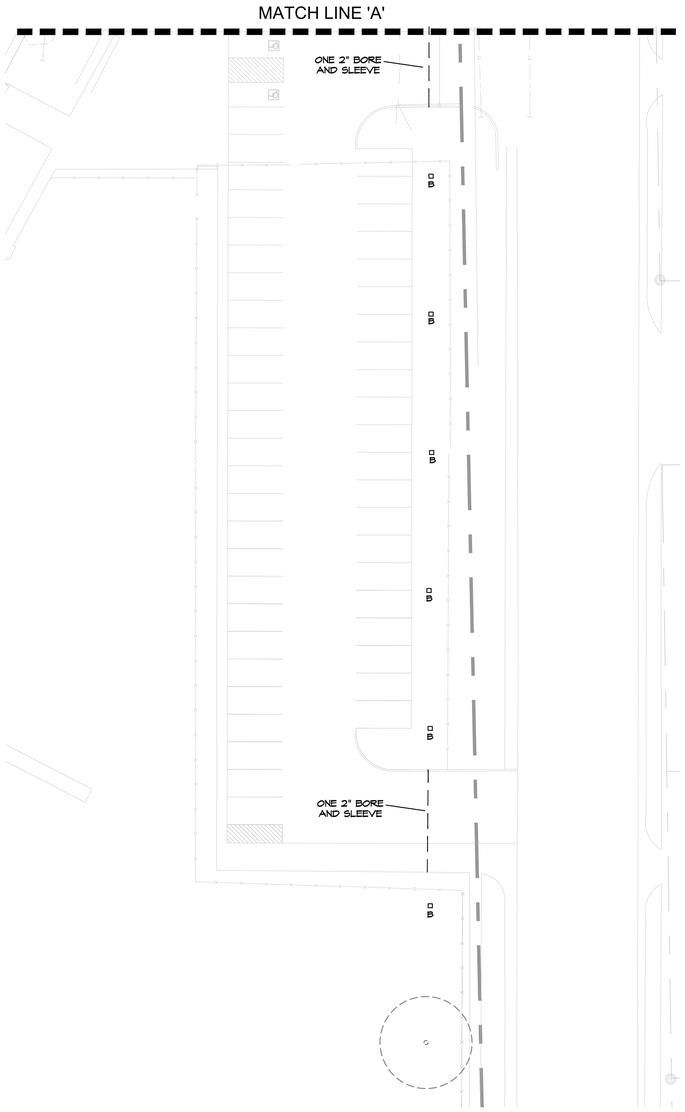
Sheet Number
L3.00



2 LANDSCAPE IRRIGATION PLAN
1" = 20'-0"

0 10 20 40ft

NORTH



1 LANDSCAPE IRRIGATION PLAN
1" = 20'-0"

0 10 20 40ft

NORTH

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
JAMES POLE
658
LICENSED IRRIGATOR
10 / 22 / 2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25
Revised:

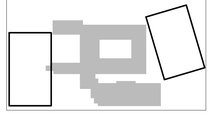
CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

James Pole
IRRIGATION CONSULTANTS
IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT
TEXAS L.I.C. #658
P.O. BOX 1548
DENTON, TEXAS 76202
PHONE: 940.243.2364
jamesp@jamespoleirrigation.com

EPA WaterSense PARTNER

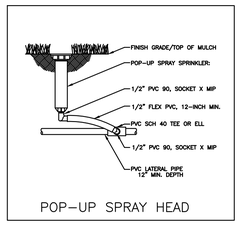
IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (MC-178) P.O. BOX 13087 T.C.E.Q.'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

KEYPLAN

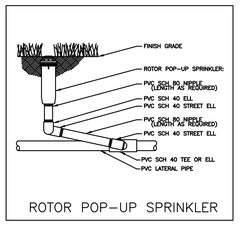


Sheet Title
IRRIGATION PLAN

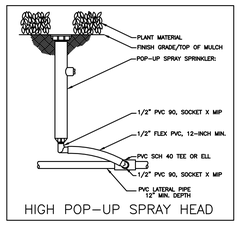
Sheet Number
L3.01



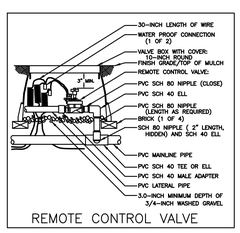
POP-UP SPRAY HEAD



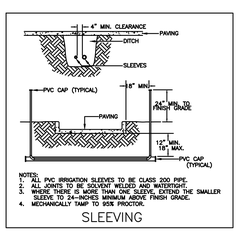
ROTOR POP-UP SPRINKLER



HIGH POP-UP SPRAY HEAD

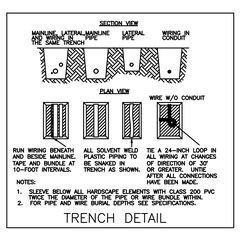


REMOTE CONTROL VALVE



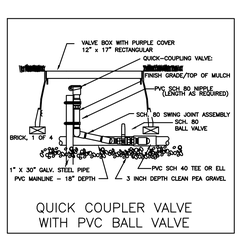
NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE CLASS 200 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TO 95% PROCTOR.

SLEEVING

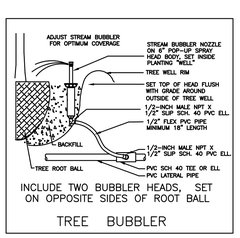


NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

TRENCH DETAIL



QUICK COUPLER VALVE WITH PVC BALL VALVE



INCLUDE TWO BUBBLER HEADS, SET ON OPPOSITE SIDES OF ROOT BALL

TREE BUBBLER

BASELINE TWO-WIRE INSTALLATION

THE IRRIGATION CONTRACTOR SHALL RECEIVE FACTORY TRAINING FROM BASELINE BEFORE INSTALLATION BEGINS.

CONTACT BASELINE REPRESENTATIVE MR. JOHN DUBOSE 214.632.2284

"TWO-WIRE" PATH CONTROL WIRES SHALL BE BASELINE "biLine II" CONTROL CABLE #14.

ALL WIRE SPLICES MUST BE MADE IN A VALVE BOX WITH DBY-6 DIRECT-BURIAL WATERPROOF CONNECTORS.
ALL CONNECTIONS IN THE TWO-WIRE PATHS (OUTSIDE THE CONTROLLER ENCLOSURE) SHALL BE MADE WITH 3M DBR-6 WATERPROOF, STRAIN-RELIEVING DIRECT BURIAL CONNECTORS, OR EXACT EQUALS.

14 AWG/1MM DIA. WIRE SHALL BE USED FOR ALL DECODER-TO-SOLENOID CONNECTIONS. IN HIGH LIGHTNING AREAS THIS WIRE SHALL BE TWISTED TO MAXIMIZE SURGE SUPPRESSION.

THE INSTALLER SHALL PROVIDE ADEQUATE EARTH GROUND (NOT TO EXCEED 10 OHMS, OR IN COMPLIANCE WITH PRACTICES AS DEFINED IN AMERICAN SOCIETY OF IRRIGATION CONSULTANTS EARTH GROUNDING GUIDELINE 100-2002, AVAILABLE AT WWW.ASIC.ORG) AND CONNECT IT TO THE TWO-WIRE PATH EVERY 500 FEET, AND AT END RUNS AS SHOWN ON THE PLAN. GROUND HARDWARE SHALL BE A 5/8" x 8' COOPER CLAD GROUND ROD.

GROUND CONNECTIONS FROM DECODER GROUND LEAD TO GROUNDING HARDWARE SHALL BE MADE BY JOINING THE 12AWG (2MM DIA.) DECODER GROUND WIRE WITH A 10AWG (2.5MM DIA.) SOLID COPPER LEAD IN AN APPROVED WIRE NUT OF APPROPRIATE SIZE, INSERTED IN A DBR-6 WATERPROOF DIRECT BURIAL CONNECTOR, OR WITH AN APPROVED WIRE CLAMP. GROUND HARDWARE SHALL EXTEND AT RIGHT ANGLES FROM THE TWO-WIRE RED/BLUE PATH.

SURGE SUPRESSION

1. ALL GROUNDING RODS SHALL BE BARE COPPER OF 5/8" DIAMETER OR GREATER, AND 8' LENGTH OR GREATER.
2. ALL GROUNDING PLATES SHALL BE 5 SQUARE FEET, TYPICALLY 4" BY 96", AS OUTLINED IN ASIC EARTH GROUNDING GUIDELINE 100-2002.
3. GROUND RODS AND PLATES SHALL BE LOCATED AT A MINIMUM DISTANCE TO ASSURE THAT THE TWO-WIRE PATH IS OUTSIDE THE ELECTRODE SPHERE OF INFLUENCE FOR THE GROUNDING ROD. FOR AN 8' GROUDING ROD, THIS MEANS THAT THE GROUNDING ROD MUST BE CONNECTED AT LEAST 8' AWAY FROM THE TWO-WIRE PATH, AT A RIGHT ANGLE.
4. CONSULT THE ASIC EARTH GROUNDING GUIDELINE 100-2002 FOR CORRECT MINIMUM RECOMMENDED DISTANCES FOR DIFFERENT GROUND ROD OR GROUND PLATE SIZES AND GROUNDING GRID DESIGNS.
5. LIGHTNING ARRESTORS SHOULD BE INSTALLED IN AN APPROPRIATE IRRIGATION BOX, AND SHOULD BE CONNECTED TO THE biLINE OR BACKBONE WIRE IN ACCORDANCE WITH THE BL-LA01 SPECIFICATION AND GROUND ROD AND PLATE GUIDELINE.
6. LIGHTNING ARRESTORS SHOULD BE CONNECTED TO BARE COPPER GROUND WIRES USING SCREW CLAMP OR CADWELD TYPE CONNECTORS.

COORDINATION WITH EXISTING TREES

NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.

TEMPORARY IRRIGATION

THE CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN AND PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF ALL PROPOSED PLANT MATERIALS LOCATED OUTSIDE THE LIMITS OF COVERAGE PROVIDED BY THE PERMANENT SYSTEM.

INSTALLATION NOTES

1. COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES, AND WILL SECURE ALL REQUIRED PERMITS. L.I.C. SHALL PAY ANY ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN AND SHALL BE ADDRESSED BEFORE ANY CONSTRUCTION BEGINS.
2. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS.
3. CONFIRM MINIMUM STATIC WATER PRESSURE OF 65 PSI AT THE HIGHEST ELEVATION OF THE SYSTEM LIMITS, AND MAXIMUM STATIC WATER PRESSURE OF 90 P.S.I. AT THE LOWEST ELEVATION OF THE SYSTEM LIMITS AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS OUTSIDE THE RANGE STATED ABOVE, DO NOT PROCEED UNTIL DIRECTED BY THE LANDSCAPE ARCHITECT.
4. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN EXISTING TREE ROOT ZONES. WHEN HAND - TRENCHING WITHIN EXISTING TREE ROOT ZONES, NO ROOTS LARGER THAN 1" DIAMETER SHALL BE CUT.
5. ALL PIPES AND WIRES LOCATED UNDER PAVEMENT SHALL BE INSTALLED WITHIN PVC SLEEVES. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPED AREAS.
6. ALL NEW VALVE WIRES SHALL BE ASSIGNED TO UNUSED STATIONS OF EXISTING CONTROLLER. IF CAPACITY IS NOT AVAILABLE FOR ALL NEW AND EXISTING VALVES, CONTROLLER SHALL BE UPGRADED.
7. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". WIRE SPLICES SHALL INCLUDE DBY CONNECTORS AS MANUFACTURED BY 3M COMPANY. LOCATE FIELD SPLICES IN A ROUND VALVE BOX OF SUFFICIENT SIZE TO ALLOW INSPECTION. TAPE WIRE BUNDLES EVERY 20 L.F.
8. VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH 3 INCHES CLEAN PEA GRAVEL LOCATED BELOW THE VALVE. USE 12" x 17" RECTANGULAR VALVE BOXES WITH PURPLE LID FOR QUICK COUPLING VALVES AND 10" ROUND BOXES FOR ELECTRIC VALVES UNLESS NOTED OTHERWISE. THE PROPOSED LOCATIONS OF ALL VALVE BOXES SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION. D.C.A., WITH UPSTREAM BALL VALVE AND WYE FILTER SHALL BE BOXED AND LOCATED ACCORDING TO LOCAL CODE. THE PROPOSED LOCATIONS OF ALL VALVE BOXES SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
9. USE MANUFACTURED SCH. 80 PVC, O-RING TYPE SWING JOINT ASSEMBLIES TO CONNECT ALL ROTARY HEADS AND QUICK COUPLERS.
10. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12" MINIMUM LENGTH OF 1/2" FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER.
11. PROVIDE ONE QUICK COUPLER KEY WITH SWIVEL HOSE ELL FOR EVERY SIX (6) Q.C. VALVES. (MINIMUM ONE SET).
12. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
13. LATERAL PIPE TO TREE STREAM BUBBLER HEADS IS OMITTED FOR GRAPHIC CLARITY. CONNECT TREE BUBBLER HEADS TO VALVES AS SHOWN WITH CLASS 200 PVC PIPE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND.
14. THE PROPOSED LOCATIONS OF ALL ABOVE- GROUND EQUIPMENT INCLUDING BACKFLOW PREVENTERS, CONTROLLERS AND WEATHER SENSORS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THESE ITEMS ARE INSTALLED.
15. ALL HEADS SHALL BE INSTALLED A MINIMUM OF 4" FROM PAVEMENT EDGES. (6" OR GREATER WHERE REQUIRED BY LOCAL CODE.) FINAL HEAD ADJUSTMENTS BY THE CONTRACTOR SHALL INCLUDE ARC AND DISTANCE NOZZLE CHANGES, AND THE ADDITION OF CHECK VALVES AT HEADS, WHERE NEEDED, TO PREVENT EXCESSIVE LOW HEAD DRAINAGE. THE CONTRACTOR SHALL BUDGET FOR AND INSTALL CHECK VALVES FOR UP 10% OF THE TOTAL NUMBER OF HEADS, IF NEEDED, WITH NO ADDITIONAL CHARGE TO THE OWNER.

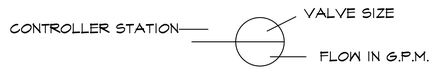
LEGEND

- ▫ HUNTER PROS-06-NS1-PRS30 SERIES POP UP SPRAY HEADS WITH HUNTER MSBN-50H STREAM BUBBLER NOZZLES. (TWO PER TREE) SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- ⁂ HUNTER PROS-12-SI-PRS30 SERIES POP UP SPRAY HEAD WITH PRO SPRAY SERIES NOZZLE AS NOTED BELOW
- • HUNTER PROS-04-PRS30 SERIES POP UP SPRAY HEAD WITH PRO SPRAY SERIES NOZZLE AS NOTED BELOW
- HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH BL-5201 SINGLE STATION BICODER
- ⊕ HUNTER ICV SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE WITH BL-5201 SINGLE STATION BICODER SEE INSTALLATION NOTE #13 REGARDING TREE BUBBLER LATERAL PIPE
- ◉ HUNTER PSP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #1.5SR BLACK NOZZLE UNLESS NOTED OTHERWISE
- ⊘ HUNTER PSP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #4.0 BLUE NOZZLE UNLESS NOTED OTHERWISE
- ○ HUNTER PSP ULTRA, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, FULL CIRCLE, #8.0 BLUE NOZZLE UNLESS NOTED OTHERWISE
- ▲ HUNTER HQ-33-LRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- LASCO "VI01N" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE
- —— —— CLASS 200 PVC MAINLINE PIPE
- ——— CLASS 200 (EXCEPT 1/2 INCH #315) PVC LATERAL PIPE
- = = = TWO 4" CLASS 200 SLEEVE PIPES, UNLESS NOTED OTHERWISE

BORES SHALL BE REQUIRED AT ALL EXISTING PAVING CROSSINGS WHERE EXISTING SLEEVES ARE NOT PRESENT.

L.I.C. SHALL SELECT PRO-SPRAY SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

EQUIPMENT AND INSTALLATION SHALL MEET ALL DALLAS INDEPENDENT SCHOOL DISTRICT IRRIGATION REQUIREMENTS. L.I.C. SHALL COORDINATE WITH D.I.S.D. STANDARDS / SPECS PRIOR TO CONSTRUCTION.



SITE WIDE: CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF DAMAGE CREATED DURING CONSTRUCTION, STAGING, AND STORAGE ACTIVITIES INCLUDING, BUT NOT LIMITED TO, EXISTING IRRIGATION EQUIPMENT, EXISTING LANDSCAPING, AND EXISTING SIDEWALKS / HARDSCAPE.

COORDINATION WITH EXISTING IRRIGATION

THE CONTRACTOR SHALL VISIT THE SITE BEFORE CONSTRUCTION BEGINS TO BECOME FAMILIAR WITH THE EXISTING SYSTEM LAYOUT. REROUTE, REPAIR, OR REINSTALL EXISTING EQUIPMENT, INCLUDING MAINLINE AND CONTROL WIRES, AS REQUIRED, TO MAINTAIN CONTINUED AUTOMATIC OPERATION OF ALL AREAS OUTSIDE THE LIMITS OF WORK. PROTECT EXISTING EQUIPMENT WITHIN THE LIMITS OF WORK, WHICH IS INTENDED TO REMAIN. CONTRACTOR SHALL KEEP EXISTING IRRIGATION (OUTSIDE OF THE SCOPE OF WORK) OPERABLE DURING CONSTRUCTION. L.I.C. SHALL RE-WORK EXISTING IRRIGATION TO INCLUDE AND ACCOUNT FOR NEW PLANTINGS. RE-WORKED IRRIGATION SHALL BE INSTALLED ACCORDING TO STATE SPECIFICATIONS.

*THE IRRIGATION CONTRACTOR SHALL CONFIRM THE FOLLOWING REQUIREMENTS FOR CONNECTION TO THE EXISTING MAINLINE PIPE AND CONTROL WIRE OF EXISTING CONTROLLER BEFORE WORK BEGINS. IF CONDITIONS ARE NOT MET, DO NOT PROCEED UNTIL INSTRUCTED BY LANDSCAPE ARCHITECT.:

1. EXISTING MAINLINE
   CONFIRM MAINLINE PIPE IS SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND.
2. EXISTING IRRIGATION METER
   CONFIRM COMBINED EXISTING AND NEW ZONES SHALL OPERATE WITHIN ALLOWABLE WATERING TIMES AND FLOW LIMITATIONS PROVIDED BY EXISTING METER.
3. EXISTING CONTROLLER
   CONFIRM EXISTING CONTROLLER HAS AVAILABLE CAPACITY FOR NEW ZONES. UPGRADE CONTROLLER IF CAPACITY IS NOT AVAILABLE. IF EXISTING CONTROLLER IS A "TWO-WIRE" CONTROLLER, ALL NEW, VALVES SHALL REQUIRE SINGLE-STATION DECODERS.

- NEW SHRUB AND GROUND COVER BEDS SHALL RECEIVE NEW IRRIGATION AS INDICATED ON THE PLAN, INSTALLED AS DIRECTED.
- DISTURBED TURF AREAS SHALL RECEIVE NEW IRRIGATION OR RENOVATIONS TO THE EXISTING SYSTEM, PROVIDING COMPLETE COVERAGE TO ALL AFFECTED AREAS.
- L.I.C. SHALL LOCATE AND CONNECT TO THE EXISTING SYSTEM MAINLINE AND CONTROLLERS.
- NEW OR RENOVATED TURF HEADS SHALL BE ZONED SEPARATELY FROM SHRUB IRRIGATION.
- NEW IRRIGATION PIPES SHALL BE SIZE TO ALLOW A MAXIMUM FLOW VELOCITY OF FIVE FEET PER SECOND.
- RENOVATIONS SHALL INCLUDE MEETING ALL CURRENT CODES, INCLUDING THE ADDITION OF A BALL VALVE AND WYE FILTER IF A D.C.A. BACKFLOW PREVENTER IS PRESENTLY USED.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DEMONSTRATE PROPER, AUTOMATIC COVERAGE TO ALL AREAS WITH MINIMUM OPERATING PRESSURES OF 25 PSI AT SPRAY HEAD NOZZLES AND 35 PSI AT ROTARY HEAD NOZZLES.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
CHRISTOPHER CARTER
658
LICENSED IRRIGATOR
10 / 22 / 2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25

Revised:

CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

James Pole
IRRIGATION CONSULTANTS
IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT
TEXAS L.I.C. #638
P.O. BOX 1848
DENTON, TEXAS 76202
PHONE: 940.248.2364
jamese@jamespoleirrigation.com

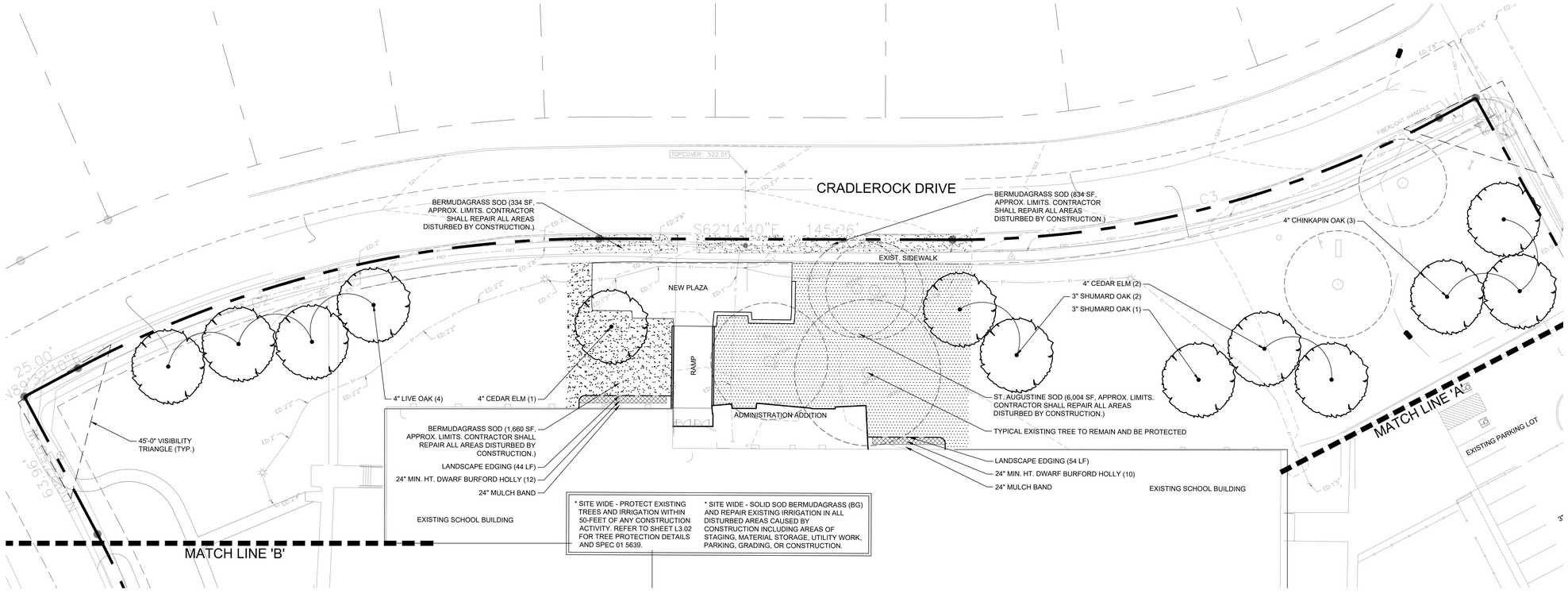
EPA WaterSense PARTNER

IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (MC-178) P.O. BOX 13087 T.C.E.Q.'S WEB SITE IS: WWW.TCEQ.STATE.TX.US

KEYPLAN

Sheet Title
IRRIGATION DETAILS

Sheet Number
L3.02



1 LANDSCAPE PLANTING PLAN
1" = 20'-0"

PLANT AND MATERIAL SCHEDULE

TREES	CODE	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE	REMARKS	QTY
	CE4	CEDAR ELM / ULMUS CRASSIFOLIA	B&B / CONT.	4" CAL. MIN.	13'-15'H X 5'-7'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT, SINGLE LEADER	3
	CE3	CEDAR ELM / ULMUS CRASSIFOLIA	B&B / CONT.	3" CAL. MIN.	11'-13'H X 4'-6'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT, SINGLE LEADER	2
	LO4	LIVE OAK / QUERCUS VIRGINIANA	B&B / CONT.	4" CAL. MIN.	13'-15'H X 5'-7'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT SINGLE LEADER	4
	LO3	LIVE OAK / QUERCUS VIRGINIANA	B&B / CONT.	3" CAL. MIN.	11'-13'H X 4'-6'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT, SINGLE LEADER	2
	CO4	CHINKAPIN OAK / QUERCUS MUEHLENBERGII	B&B / CONT.	4" CAL. MIN.	13'-15'H X 5'-7'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT, SINGLE LEADER	3
	CO3	CHINKAPIN OAK / QUERCUS MUEHLENBERGII	B&B / CONT.	3" CAL. MIN.	11'-13'H X 4'-6'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT, SINGLE LEADER	2
	SO3	SHUMARD RED OAK / QUERCUS SHUMARDII	B&B / CONT.	3" CAL. MIN.	11'-13'H X 4'-6'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT, STRAIGHT, SINGLE LEADER	5

SHRUBS	CODE	COMMON NAME / BOTANICAL NAME	SIZE	REMARKS	SPACING	QTY
	DB	DWARF BURFORD HOLLY / ILEX CORNUTA 'DWARF BURFORD'	24" MIN. HEIGHT	24" MIN. HEIGHT; FULL TO BASE, HEAVILY ROOTED	SPACING AT 36" O.C., 0.12 PLANTS / SF	22

TURF	CODE	COMMON NAME / BOTANICAL NAME	SIZE	REMARKS	QTY
	BG	BERMUDA GRASS / CYNODON DACTYLON 'TIFFWAY 419'	SOD	SOLID SOD, REF. SPEC 329200 WHERE TO REPAIR CONSTRUCTION DISTURBANCE	FIELD VERIFY
	SA	ST. AUGUSTINE GRASS / STENOTAPHRUM SECUNDATUM	SOD	SOLID SOD, REF. SPEC 329200 WHERE TO REPAIR CONSTRUCTION DISTURBANCE	FIELD VERIFY

MATERIALS	ITEM	DEPTH	REMARKS	QTY
PLANTING BEDS FOR SHRUBS AND GROUNDCOVER: NOTE - FIELD VERITY ALL QUANTITIES, ALL BEDS TO BE FULL, REFER TO DETAILS AND SPECS				
	MULCH - TOPDRESSING PLANTING BEDS	3" DEPTH	RUSTIC CUT HARDWOOD OR APPROVED EQUIVALENT, COMPACTED DEPTH, REF. SPEC SECT 32 9300	FIELD VERIFY
	COMPOST - PLANTING BEDS	3" DEPTH	ORGANIC, WELL-DECOMPOSED, REF. SPEC SECT 329300	FIELD VERIFY
	WEED BARRIER - NEWSPRINT PLANTING BEDS	8 LAYERS	8 LAYERS OF NEWSPRINT AT PLANTING BEDS, REF. DETAILS AND SPEC SECT 32 9300	FIELD VERIFY
	EXPANDED SHALE - PLANTING BEDS	3" DEPTH	PLANTING BEDS, SUPPLIED BY SOIL BUILDING SYSTEMS OR APPROVED EQUAL,REF. SPEC SECT 32 9300	FIELD VERIFY
	ORGANIC BIOLOGICAL FERTILIZER - PLANT BEDS		REF. SPEC SECT 329200 FOR MATERIAL AND APPLICATION RATE	FIELD VERIFY
	LANDSCAPE EDGING		BETWEEN PLANTING & TURF; STEEL EDGING: 1/8" X 4", COLOR: BLACK, INTERLOCKING SECTIONS, INSTALLED WITH 12" STEEL STAKES	FIELD VERIFY
LAWN / TURF GRASS: NOTE - FIELD VERITY ALL QUANTITIES, ALL DISTURBED AREAS TO BE GRASSED, REFER TO DETAILS AND SPECS				
	TOPSOIL - LAWN / TURF GRASS	1 1/2" DEPTH	REF. DETAILS AND SPECS	FIELD VERIFY
	COMPOST - LAWN / TURF GRASS	1/2" DEPTH	ORGANIC, WELL-DECOMPOSED, REF. DETAILS AND SPECS SUPPLIED BY SOIL SYSTEMS OR APPROVED EQUAL, REF. SPEC 32 9300	FIELD VERIFY
	ORGANIC BIOLOGICAL FERTILIZER - LAWN		REF. SPEC SECT 329200 FOR MATERIAL AND APPLICATION RATE	FIELD VERIFY

NOTE - QUANTITIES ARE APPROXIMATE. FIELD VERIFY FOR ACCURACY. ALL PLANTING BEDS TO BE FULL AND PREPARED PER SPECIFICATIONS. ALL DISTURBED AREAS TO BE GRASSED AND SOIL PREPARED PER SPECIFICATIONS.
NOTE - PLANT OR MATERIAL SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
NOTE - SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
NOTE - SAMPLES / SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.

TREE REQUIREMENTS

ROOT SYSTEM DEVELOPMENT:

1. ALL NAMED CULTIVARS WILL BE OWN ROOT CLONES. NO GRAFTER OR BUD-GRAFTED TREES WILL BE ACCEPTED.
2. 100% MECHANICALLY ROOT-PRUNED AT LEAST ONCE AND TRANSPLANTED A MINIMUM OF 3 TIMES DURING THE FIRST 3 YEARS OF THE TREE'S LIFE.
3. THE TREES WILL HAVE BEEN GROWN IN HEAVY CLAY SOIL AND IRRIGATED WITH DRIP IRRIGATION.
4. THE TRUNK FLARE MUST BE ABOVE GROUND AND VISIBLE AT NURSERY BEFORE HARVEST AND AFTER TRANSPLANTING INTO THE LANDSCAPE.
5. THE ROOT BALLS WILL HAVE BEEN HEELED IN FOR AT LEAST 30 DAYS AND HAVE A FLESH FLUSH OF NEW ROOT GROWTH INTO THE BURLAP.
6. NO GIRDLING ROOTS.

CANOPY DEVELOPMENT:

7. TREES WILL HAVE A STRONG CENTRAL LEADER TO TOP OF THE CANOPY. THE TIP OF THE LEADER ON THE MAIN TRUNK MUST BE INTACT AND TERMINAL BUD AT THE HIGHEST PART.
8. NO BRANCH CAN HAVE A DIAMETER GREATER THAN 2/3 THE TRUNK DIAMETER MEASURED DIRECTLY ABOVE THE BRANCH CROTCH. THE TREE WILL HAVE NO INCLUSIONS OR CO-DOMINANT BRANCHES.
9. THE TREE CROWN MUST BE STRUCTURALLY UNIFORM. BRANCHES WILL BE EVENLY DISTRIBUTED AR0UND THE TRUNK. THE CROWN WILL BE FULL OF FOLIAGE EVENLY DISTRIBUTED AROUND THE TREE.

GENERAL NOTES

1. VERIFY SITE INFORMATION INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURB AND GUTTER, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL DRAWINGS. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS.
2. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINE, EASEMENTS, EXISTING BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE SURVEY AND CIVIL ENGINEER'S DRAWINGS. FOR ADDITIONAL INFORMATION REFER TO CIVIL ENGINEERING DRAWINGS.
3. CARE SHALL BE TAKEN TO PRESERVE AND PROTECT FULLY THE EXISTING BUILDINGS AND UTILITIES TO REMAIN.
4. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES AND THE GENERAL CONTRACTOR FOR LOCATION OF EXISTING UNDERGROUND UTILITIES. EXCAVATE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO FINAL EXCAVATION AND INSTALLATION.

LANDSCAPE PLANTING NOTES

1. FINAL GRADING SHALL BE INSTALLED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO PLANTING OR PLANTING LAYOUT.
2. TREES ARE TO BE CENTERED IN EACH TREE PLANTER. CONTRACTOR SHALL STAKE OUT ALL TREE LOCATIONS FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO ADJUST TREES TO EXACT LOCATION IN FIELD.
3. UNLESS DIMENSIONED ON THE PLAN, ALL PROPOSED TREE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL STAKE OUT ALL INFORMAL TREES LOCATIONS IN THE FIELD USING COLORED FLAGS FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN THE FIELD.
4. SHRUB BED LAYOUTS SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO SOIL PREPARATION. ALIGN AND EQUALLY SPACE, IN ALL DIRECTIONS, ALL SHRUBS AS NOTED IN THE DRAWINGS.
5. FINISH GRADE OF SHRUB BEDS SHALL BE THREE AND ONE HALF (3 ½ ") INCHES BELOW ADJACENT PAVEMENT OR CURB WHERE THREE (3") INCHES MULCH IS TO BE APPLIED.
6. UNLESS OTHERWISE INDICATED, ALL SHRUB BEDS SHALL BE TOPDRESSED WITH A THREE (3") INCH MULCH LAYER. CONTRACTOR SHALL PROVIDE SAMPLES OF COMPOST AND MULCH TO THE OWNER'S REPRESENTATIVE ALONG WITH SPECIFIC TEST DATA PER THE REQUIREMENTS OF THE SPECIFICATIONS.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE OWNER'S REPRESENTATIVE OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
8. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION, AND MUST BE REPLACED WITH PLANT MATERIAL OF SIMILAR VARIETY, CHARACTER, AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
9. CONTRACTOR SHALL MEET OR EXCEED ALL MINIMUM SIZES LISTED IN PLANT SCHEDULE INCLUDING CONTAINER SIZE.
10. LANDSCAPE AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING, REMOVAL OF MISCELLANEOUS DEBRIS AND ANY ADDITIONAL FILL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING IN ALL PLANTER LEAVE-OUTS.
12. EXCESS SOIL FROM LANDSCAPE GRADING TO BE REMOVED AND DISPOSED OFF-SITE BY CONTRACTOR.
13. FINISH MULCH GRADES OF ALL TREE BASES SHALL BE (1/2") BELOW ADJACENT PAVEMENT ELEVATION. IN AREAS WHERE A COMBINED (4") LAYER OF MULCH AND COMPOST IS TO BE APPLIED FINISH SOIL GRADES SHALL BE (4 1/2") BELOW ADJACENT PAVEMENT OR CURB.
14. CONTRACTOR SHALL PATCH ALL AREAS OF DISTURBED LAWN WITH SOLID SOD COMMON BERMUDA GRASS - REF. PLANS. NEW SOD SHALL BE FLUSH TO EXISTING TURF.
15. REPLACE DEAD PLANTS WITHIN 7 DAYS AFTER DETERMINATION OF CONDITION.

PLANTING LEGEND

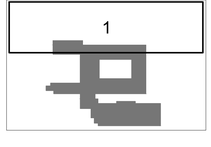
- EXISTING TREE TO REMAIN AND BE PRESERVED, EMPLOY TREE PROTECTION FENCING, ROOT PRUNING, TRUNK SHORING, AND MULCH MATTING AS NEEDED.
- NEW CANOPY TREE. 3" OR 4" CALIPER, PLANTED AS SHOWN.
- DWARF BURFORD HOLLY 24" MIN. HEIGHT, PLANTED 36" ON CENTER.
- SOLID SOD ALL AREAS DISTURBED BY CONSTRUCTION; TIFFWAY 419 BERMUDAGRASS IN SUN AREAS
- SOLID SOD ALL AREAS DISTURBED BY CONSTRUCTION; ST. AUGUSTINEGRASS IN SHADE AREAS
- STEEL LANDSCAPE EDGING. REFER TO SPECIFICATIONS

DALLAS TREE MITIGATION FEES

TOTAL CALIPER INCHES REMOVED:	49.0 CALIPER INCHES = $9,457.00 FEE	
TOTAL CALIPER INCHES PLANTED:		
4" CALIPER TREES PLANTED:	10 X 4" =	40.0 CALIPER INCHES
3" CALIPER TREES PLANTED:	3 X 3" =	9.0 CALIPER INCHES
TOTAL CALIPER INCHES PLANTED:		49.0 CALIPER INCHES
DIFFERENCE =	0.0 x $193	CALIPER INCHES FEE PER CALIPER INCH
TOTAL PAYMENT INTO THE REFORESTATION FUND AFTER NEW PLANTING:		$0.00

CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

KEYPLAN



CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT JACQUELYN CLARK SZAFRANIC 3165 STATE OF TEXAS
10/22/2025

DALLAS ISD - **JOHN W. RUNYON ELEMENTARY SCHOOL**
10750 CRADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

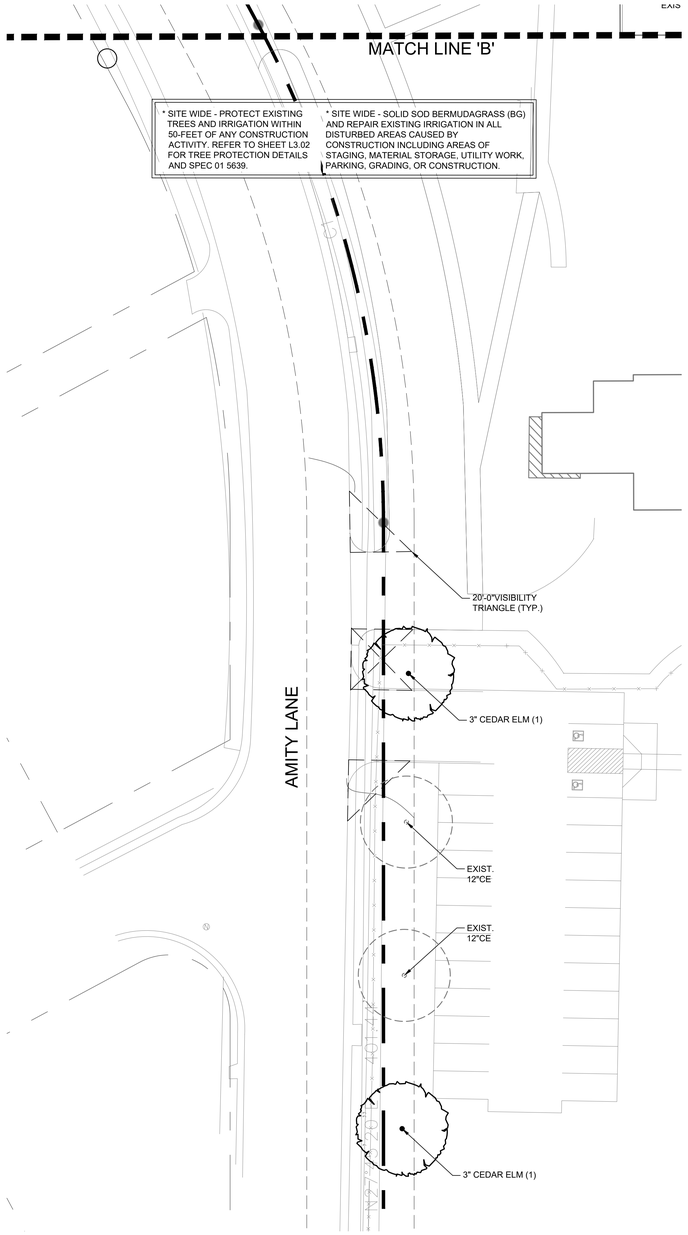
© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25
Revised:

Sheet Title
LANDSCAPE PLANTING PLAN

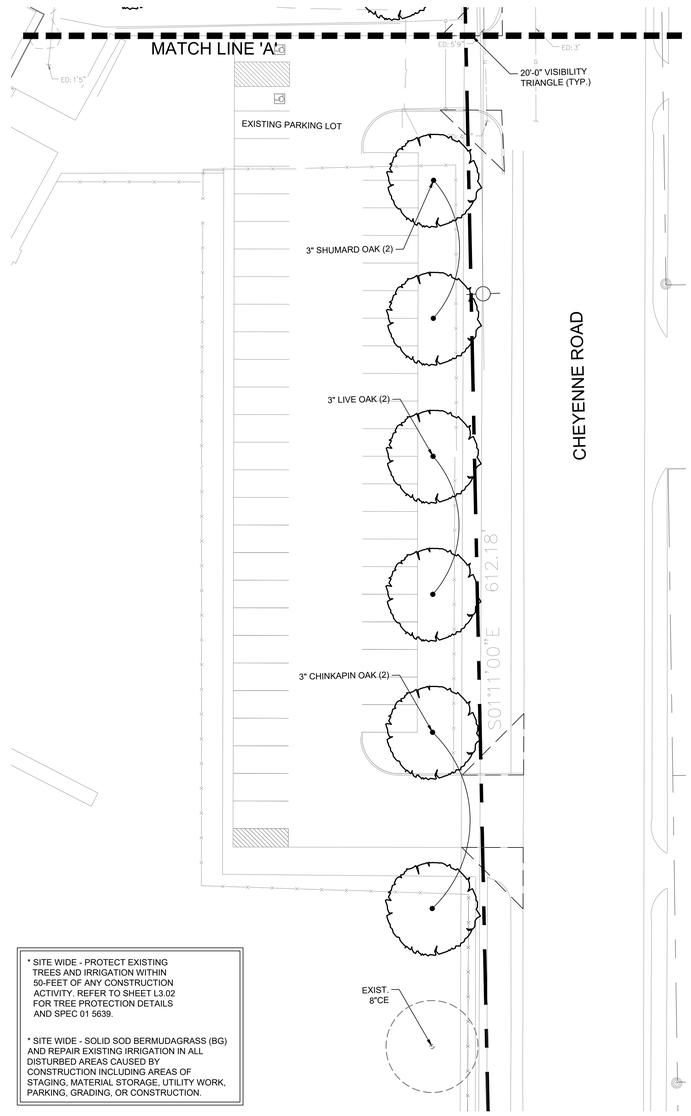
Sheet Number
L4.00



2 LANDSCAPE PLANTING PLAN
1" = 20'-0"

0 10 20 40ft

NORTH



1 LANDSCAPE PLANTING PLAN
1" = 20'-0"

0 10 20 40ft

NORTH

CITY OF DALLAS STAMP

PLANTING LEGEND

- EXISTING TREE TO REMAIN AND BE PRESERVED. EMPLOY TREE PROTECTION FENCING, ROOT PRUNING, TRUNK SHORING, AND MULCH MATTING AS NEEDED.
- NEW CANOPY TREE. 3" OR 4" CALIPER, PLANTED AS SHOWN.
- DWARF BURFORD HOLLY 24" MIN. HEIGHT, PLANTED 36" ON CENTER.
- SOLID SOD ALL AREAS DISTURBED BY CONSTRUCTION; TIFFWAY 419 BERMUDAGRASS IN SUN AREAS
- SOLID SOD ALL AREAS DISTURBED BY CONSTRUCTION; ST. AUGUSTINEGRASS IN SHADE AREAS
- STEEL LANDSCAPE EDGING. REFER TO SPECIFICATIONS

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT
JOCELYN CLARK SZAFRANIEC
3165
STATE OF TEXAS
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

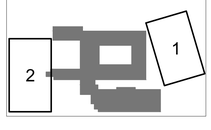
© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25
Revised:

CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

KEYPLAN

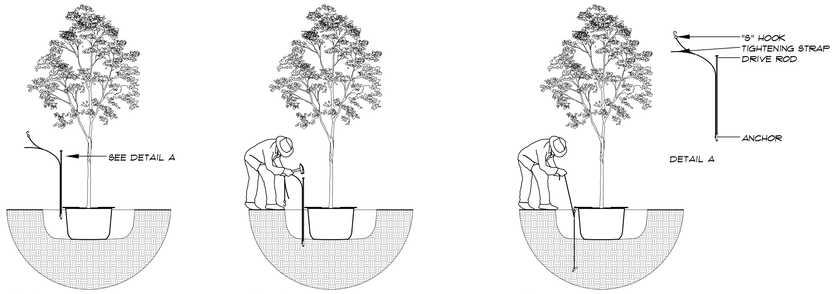


Sheet Title
LANDSCAPE PLANTING PLAN

Sheet Number
L4.01

PREPARE TREE AS PER SPECIFICATION SECTION 32 9300 PRIOR TO SETTING IN EXCAVATED PLANTING PIT:

- REMOVE INVASIVE VEGETATION FROM TOP OF ROOT BALL.
- REMOVE EXCESS SOIL FROM TOP OF ROOT BALL TO EXPOSE TREE'S NATURAL ROOT FLARE TAPER.
- TRIM AWAY GIRDLING, CIRCLING AND SPIDER ROOTS AROUND EXPOSED ROOT FLARE.
- TOP OF PREPARED TREE SETS RELATIVE PLANTING DEPTH ABOVE FINISHED GRADE PER DETAILS AND SPECIFICATIONS.



STEP 1:
- SET TREE IN PLANTING PIT
- CENTER ROOT ANCHOR'S INNER RING(S) AROUND TRUNK OF TREE
- ALIGN DRIVE ROD AS CLOSE AS POSSIBLE TO OUTSIDE EDGE OF U-BRACKET

STEP 2:
- DRIVE ANCHOR STRAIGHT DOWN INTO UNDISTURBED SUBBASE SOIL AT MINIMUM OF 18" TO 24" DEPTH
- SEE CHART FOR RECOMMENDED DEPTHS PER TREE SIZE

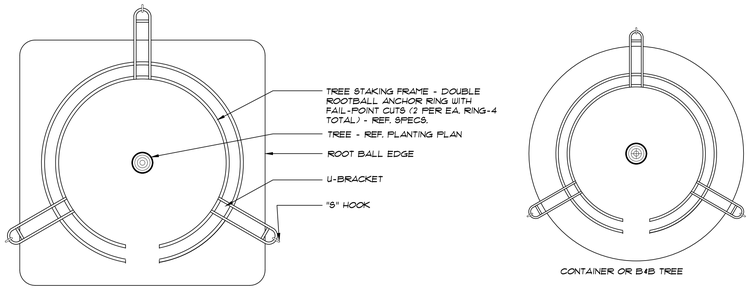
STEP 3:
- REMOVE DRIVE ROD
- REPEAT STEPS 1 & 2 FOR ALL THREE (3) ANCHOR LOCATIONS
- PULL BACK ON STRAP APPROXIMATELY 3" FOR THE V-68 ANCHOR, OR 6" TO 7" FOR THE V-88 ANCHOR TO SET ANCHOR INTO A HORIZONTAL OR LOCKED POSITION. A FULCRUM MAY BE REQUIRED TO ASSIST IN SETTING THE ANCHOR.
- PLACE "S" HOOK OVER THE END OF THE U-BRACKET
- PULL STRAP UP VERTICALLY UNTIL ROOT ANCHOR RINGS BITE INTO THE TOP OF THE ROOT BALL AND U-BRACKETS ARE SETTING FLUSH ON TOP OF THE ROOT BALL.
- TIE EXCESS STRAP OFF TO THE U-BRACKET ALLOWING ENOUGH REMAINING STRAP TO ADJUST TREE, IF NECESSARY
- BACK FILL ONLY AFTER THE TREE IS STRAIGHTENED AND SECURE

OPTIONAL ANCHORING SEQUENCES:

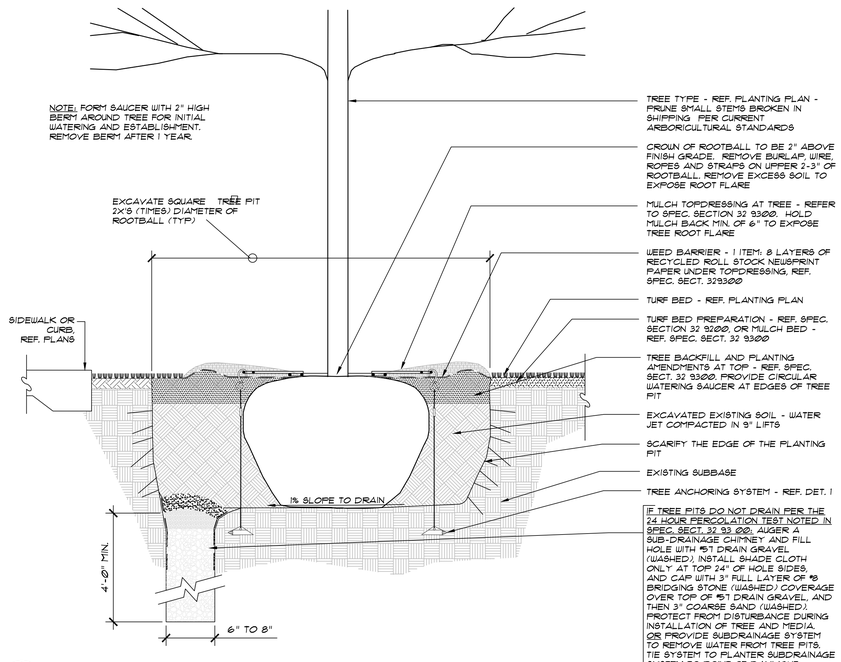
A. FOR ANCHOR INSTALLATION PRIOR TO TREE INSTALLATION - ANCHORS MAY BE PLACE, PER THE ROOT BALL DIAMETER, AND INSTALLED FROM THE BOTTOM OF THE EXCAVATED TREE PIT TO ENSURE THE DEPTH OF THE ANCHORS MEET THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS.

B. FOR ANCHOR INSTALLATION AFTER THE PLANTING BACKFILL - BE SURE TO MARK THE DRIVE PIN TO THE REQUIRED DEPTH TO ENSURE THAT WORKERS ARE DRIVING THE ANCHOR THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS BELOW THE BOTTOM OF THE EXCAVATED TREE PIT. IMPROPER DEPTH OF ANCHORING WILL BE CORRECTED AS NECESSARY TO ENSURE TREE IS STABLE.

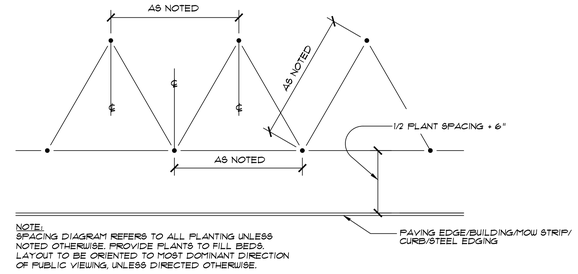
6 TREE ANCHORING
NTS



7 TYPICAL TREE GROUND ANCHORNG - PLANS
NTS

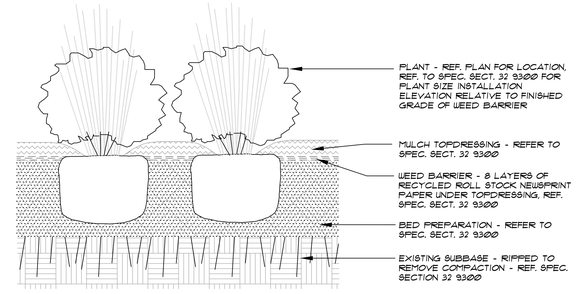


8 TREE PLANTING IN TURF - SECTION
NTS

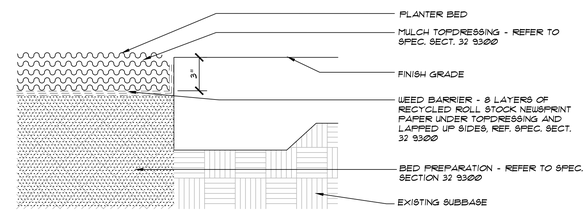


NOTE:
SPACING DIAGRAM REFERS TO ALL PLANTING UNLESS NOTED OTHERWISE. PROVIDE PLANTS TO FILL BEDS. LAYOUT TO BE ORIENTED TO MOST DOMINANT DIRECTION OF PUBLIC VIEWING, UNLESS DIRECTED OTHERWISE.

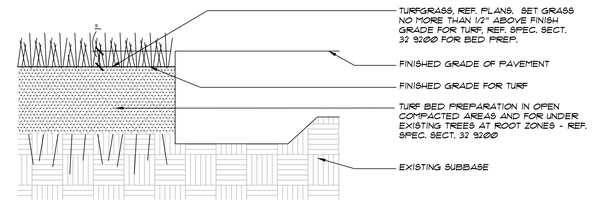
1 TRIANGULAR SPACING - PLAN
NTS



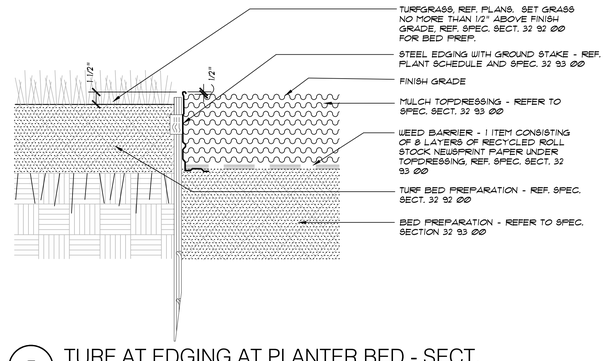
2 PLANTING BED - SECTION
NTS



3 PLANTER BED AT PAVEMENT - SECTION
NTS



4 LAWN AT PAVEMENT - SECTION
NTS



5 TURF AT EDGING AT PLANTER BED - SECT.
NTS

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED LANDSCAPE ARCHITECT
JOCELYN CLARK SZABO
3165
STATE OF TEXAS
10/22/2025

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 CRADLEROCK DRIVE - DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC 2023

Project Number
2022.012

Issue Date
10.22.25

Revised:

CCA LANDSCAPE ARCHITECTS
CCA Landscape Architects Inc.
1701 Whispering Pines Ln
Gunter, TX 75058
P: 214-739-9105

KEYPLAN

Sheet Title
LANDSCAPE PLANTING DETAILS

Sheet Number
L4.02

S T R U C T U R A L N O T E S

COORDINATION

A. The contractor shall compare the architectural, structural, mechanical, electrical, plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the structural drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to mechanical, electrical and plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the structural drawings, but required as noted above, shall be submitted to the engineer for review.

C. Refer to architectural, mechanical, electrical and plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

E. Shop drawings shall be prepared for all structural items and submitted for review by the engineer. Structural drawings shall not be reproduced and used as shop drawings. All items deviating from the structural drawings or from previously submitted shop drawings shall be clouded.

F. The details designated as "typical details" apply generally to the structural drawings in all areas where conditions are similar to those described in the details.

G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the structural drawings shall be referred to the architect. Differences shall also be clouded on the shop drawings.

H. All structural elements of the project have been designed by the engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.

I. The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The contractor and their sub-contractors shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all osha guidelines. The engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors, or any other person performing any of the work, or for the failure of any of these persons to carry out the work in accordance with the structural contract documents.

J. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the engineer, shall govern.

K. Periodic site observation by field representatives of JQ is solely for the purpose of determining if the work is proceeding in accordance with the structural contract documents. This limited site observation is not intended to be a check of the quality or quantity of the work, but rather a periodic check in an effort to inform the owner against defects and deficiencies in the work of the contractor.

CODES & REFERENCED REPORTS

A. The General Building Code used as the basis for the structural design is as follows:
1. City of Dallas Building Code (2021 International Building Code with City of Dallas Amendments)
2. International Existing Building Code, 2021 Edition

B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

C. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

D. Geotechnical Report: Foundation elements have been designed in accordance with information provided in the following geotechnical report:

Geotechnical engineer:	JRB Engineering, LLC
Report Number:	23-16117
Date:	11.06.24

DESIGN LOADS

A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:

1.	Ceiling and Mechanical at roof	10 psf
2.	Roofing and rigid insulation	8 psf

B. Live Loads

	OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
1.	Typical Floor	100	2000
2.	Mechanical rooms, typical	150	Equip. Wt.
4.	Restrooms	60	2000
5.	Roof - Unreduced (see Note 1)	20	N/A

Notes:
1. The roof structure has additionally been designed to support the weight of ponded water in accordance with AISC.
   a. Notify Architect if the final roof slope is less than 1/4"per foot. Elevation difference between primary and overflow drains or scuppers shall not exceed 2".

C. Snow loads
1. Ground snow load, Pg — 5 psf

D. Wind loads
1. Wind lateral load on structural frame is based on ASCE 7-16 using the following:

a.	Ultimate Design Wind Speed Vult	111 mph
b.	Nominal Design Wind Speed Vasd	86 mph
c.	Exposure	C
d.	Internal Pressure Coefficient, Gcpi	+/-0.18
e.	Risk Category	III

2. Components and cladding wind pressures:

Surface	(PSF)	Zone	Area At (ft2)
Exterior walls	+24.9	Interior and edge	10 or less
	-27.0	Interior	10 or less
	-33.2	Edge	10 or less
	+18.7	Interior and edge	500 or greater
	-20.8	Interior	500 or greater
	-20.8	Edge	500 or greater
Roof	-43.3	Interior	10 or less
	-57.2	Edges	10 or less
	-77.9	Corners	10 or less
	-33.8	Interior	100 or greater
	-45.0	Edges	100 or greater
	-53.5	Corners	100 or greater

- Pressures for Tributary Areas in between the listed values may be linearly interpolated.
- Negative value signifies pressure acting away from the surface (suction).
- Edge and Corner zone distances shall be determined in accordance with referenced standard.
- Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.
- * Pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values for design of joists, joist girders, and bridging.

E. Seismic Loads
1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:

a.	Seismic Importance Factor, IE	1.25
b.	Risk Category	III
c.	Mapped Spectral Response Accelerations	
	i. Ss (%g)	9.7
	ii. S1 (%g)	5.4
d.	Site Class	C
e.	Spectral Response Coefficients	
	i. SDS	0.084
	ii. SD1	0.054
f.	Seismic Design Category	A
g.	Basic Seismic-force-resisting system: Steel System Not Specifically Detailed for Seismic Resistance	
h.	Design Base shear, V	0.01W
i.	Seismic Response Coefficient(s), Cs	0.01
j.	Response Modification Factor(s), R	3
k.	Analysis Procedure Used	Simplified

BUILDING MOVEMENTS

A. The building movements specified herein are anticipated to occur and shall be taken into account by the Contractor in the design, detailing, and installation of the building elements.

B. Spandrel beam deflections: Provisions shall be made in the building cladding for relative floor to floor vertical deflections of 1/2".

C. Interior floor/roof deflections: Provisions shall be made in interior partitions and other elements supported by or attached to the floors or roofs for relative floor to floor vertical deflections of 1".

D. Lateral building drift: Provisions shall be made in building cladding and other architectural finishes for relative floor to floor lateral deflections of story height/400.

EXCAVATION PROTECTION

A. Temporary retention or alternative protective systems shall be designed to resist the soil pressures stipulated in the referenced geotechnical report. In addition, the design shall consider surcharges created by construction equipment, excavation spoil, and other surface encumbrances.

B. Contractor shall comply with all Occupational Safety and Health Administration standards and all other regulatory agency standards regarding excavation safety.

C. Contractor shall submit drawings for any proposed excavation protection system that are sealed by a professional engineer licensed in the state having jurisdiction at the project site.

DRILLED PIERS

A. Pier design is based on the following design criteria:

1.	Allowable end bearing:	4,800psf
2.	Side friction:	400psf
3.	Uplift side friction:	700psf
4.	Uplift design depth:	7'-0"
5.	Side friction (uplift resistance):	270psf
6.	Minimum penetration into bearing stratum:	1D

B. Pier design is in accordance with the recommendations in the referenced geotechnical report.

C. Bearing stratum shown on the pier details is **505.5ft**.

D. Piers not specifically located on the plan shall be located on centerline of column above. Where no column occurs, locate on centerline of wall or beam.

E. Provide dowels from piers into concrete above using same bar size and number as shown for pilaster above. Where no pilaster occurs, use dowels of same size and number as pier reinforcing steel. Extend dowels 30 bar diameters into pier and beam, wall, pilaster or column, unless noted otherwise on the Structural Drawings.

F. Elevation of top of piers, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by the pier.

G. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 spacers at a maximum spacing of 8 ft. along the length of the cage and 1'-0" from the bottom.

H. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete, in no case shall a pier be drilled that cannot be placed by the end of the workday.

I. See plans for pier sizes, reinforcing and depth.

J. The contractor shall verify depths of piers before pier steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

K. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in piers.

L. Top of pier shall be of the specified diameter. Form top of pier if required to maintain the specified diameter. Any concrete extending beyond the specified diameter shall be removed.

M. Temporary steel casing will be required during pier drilling operations. Prior to the placement of concrete, any seepage water shall be removed from the pier holes. Special construction procedures in accordance with ACI 336.1 and ACI 336.3R and specifications shall be followed during extraction of the casing and during concrete placement.

N. Contractor shall include in bid documents, unit-costs for casing if required and unit-cost for greater and lesser depth of drilling for each pier size.

O. All piers shall be inspected by a representative of a qualified geotechnical engineering firm in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.

P. The contractor shall make and maintain accurate records of the drilled pier depths, bearing stratum, depth of penetration into bearing stratum, diameter and location (including off center eccentricities), and shall submit this information to the Engineer.

CAST-IN-PLACE CONCRETE

A. CONCRETE MIX USAGE SCHEDULE:
All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

Use	Strength psi	Agg. Type	Agg. Size	Max w/c	Exposure Class
Drilled Piers	5000	NWT	1-1/2"	0.4	S3
Grade Beams	5000	NWT	1"	0.4	S3
Exterior Equipment Pads	5000	NWT	1"	0.4	S3
Structural Slab (non-P.T.)	4500	NWT	3/4"	0.45	F0

1. "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate)
2. The w/c ratio shall be selected by the concrete provider to meet the strength requirements and shall not exceed w/c ratio = 0.55. Where the maximum w/c ratio is indicated in the table above, it shall not be exceeded.
3. "Strength" is required compressive cylinder strength at an age of 28 days.
4. Concrete slump for all floor slabs shall be between 4" - 6" slump.
5. Concrete slump shall be selected by concrete provider to meet strength requirements and workability required for the concrete placement. Slump shall not exceed 9" for any mix and meet the requirements of the ACI.
6. Mixs with Exposure Class "S3" shall use Type V cementicious materials.

B. A maximum of 20% of the cementitious materials used in mix designs may be replaced with class C or F fly ash.

C. Fly ash shall not be used in architecturally exposed concrete.

D. Provide 6 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

E. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

F. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, 26.8, including the following:
1. Conduits and pipes embedded within a slab, wall, or beam (other than those passing through) shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam in which they are embedded.
2. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

G. Void forms: Shall be the product of a reputable manufacturer regularly engaged in commercial production of void forms.
1. Void form composition shall be of corrugated paper material with a moisture resistant exterior and an interior fabrication of a uniform cellular configuration, composed of components constructed of double-faced wax-impregnated (partially only), corrugated fiberboard that is laminated with moisture resistant adhesive.
2. Design and maintain void forms to support all vertical and lateral loads that might be applied during construction until such loads can be supported by the concrete structure.
3. Form material shall be designed to lose its strength under prolonged contact with the moisture which normally accumulates beneath slabs and beams on grade.

H. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2. Each proposed mix design shall be accompanied by a record of past performance based on at least 30 consecutive strength tests, or by three laboratory trial mixtures with confirmation tests.

I. Grade beams in contact with earth shall be formed both sides unless noted otherwise in details.

J. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck.

CONCRETE REINFORCING

A. Concrete reinforcement for the project shall conform to the following:
1. All reinforcing steel with bar sizes shall conform to ASTM A615, Grade 60, unless noted otherwise on the Structural Drawings.
2. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706.
3. Deformed Bar Anchors. ASTM A1064 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

C. Welded Wire Reinforcement shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

D. Reinforcement in Housekeeping Pads shall be welded smooth wire reinforcement 6 x 6 W2.9 x W2.9 minimum in all housekeeping pads supporting mechanical equipment whether shown on the Structural Drawings or not unless heavier reinforcement is called for on the Structural Drawings.

E. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
1. Class A lap beam top reinforcing bars at mid span.
2. Class A lap beam bottom reinforcing bars at the supports.
3. Provide Class B lap at other location pending Engineer's approval.
4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.
6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.

F. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

G. Heat shall not be used in the fabrication or installation of reinforcement.

H. Reinforcing steel clear cover shall be as follows:

1.	Drilled Piers	3"
2.	Formed grade beams	1 1/2" top, 2" sides, 3" bottom
3.	Slab-on-void	3/4" top; 2" bottom

STRUCTURAL STEEL

A. Material
1. All hot rolled steel members shall be new and conform to ASTM specification A6.
2. ASTM Specification and Grade - clearly mark the grade on each member.
3. Unless Noted otherwise on the Structural Drawings, structural steel members shall be:
   a. W-shapes shall conform to ASTM A992.
   b. Channels shall conform to ASTM A36.
   c. Angles shall conform to ASTM A36.
   d. Steel pipe shall conform to ASTM A53, Type E or S, Grade B.
   e. Round hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 46 ksi.
   f. Square or rectangular hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 50 ksi.
   g. Structural steel plate shall conform to ASTM A36.
   h. Any other steel shall conform to ASTM A36.
   i. Headed stud shear connectors shall conform to ASTM A108.

B. Fabrication
1. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected.

C. Erection
1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.
2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.
4. For any exposed steel not covered by architectural paint specifications, hot dip galvanize after fabrication all structural steel items and connections permanently exposed to the weather, whether specified on the Structural Drawings or not. Such items include, but are not limited to:
   a. Shelf angles
   b. Parapet wall supporting members
   c. Window washing support members
   d. All embedded plates in concrete
   e. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.
   f. Cooling tower framing and supports
   g. Cooling tower screen support members and braces.
   h. Railing exposed to weather.
   i. Examine the Architectural and Structural Drawings for other items required to be hot dipped galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

D. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

STRUCTURAL STEEL CONNECTIONS

A. Welded Connections
1. All welding shall conform to ANSI/AWS D1.1, latest edition.
2. Minimum fillet weld size to be 3/16 inch or minimum size required by AISC, whichever is larger.

B. Bolted Connections
1. Unless noted otherwise on the Structural Drawings, bolts shall be 3/4 inch diameter and conform to ASTM F3125, grade A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane.
2. Bolts shall be tightened to "snug tight" as defined by AISC, unless noted otherwise on the Structural Drawings.

C. Any structural steel connection not specifically detailed on the Structural Drawings shall be designed and detailed by the Contractor's professional engineer licensed in the state having jurisdiction at the project site (delegated designer). Sealed calculations for all connections designed by the Contractor's delegated designer shall be submitted for the Architect's files.

D. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are factored loads conforming to the requirements of AISC Load and Resistance Factor Design (LRFD).

E. Connections shall be designed and detailed as follows, unless noted otherwise on the Structural Drawings:
1. Shear connections may be selected or completed by an experienced steel detailer per the ANSI/AISC 303, Section 3.1.1.(2), in accordance with the details provided in the Structural Drawings for the following connections:
   a. Double angle shear connections
   b. Single plate shear connections
2. All other connections shall be designed and detailed by the Contractor's delegated designer and sealed calculations shall be submitted per the ANSI/AISC 303, Sections 3.1.1.(3) and 3.1.2.(2), option 3B for the following but not limited to:
   a. Moment connections
   b. Axial connections
   c. Brace and truss connections
   d. Shear connections that do not meet the requirements of the detailing provided in the Structural Drawings.
3. Project specific details provided for non-typical conditions showing conceptual configurations of connections, stiffners, web doubler plates, bearing stiffeners, and other member reinforcement at connections where such reinforcement is required. These conceptual configurations are not fully designed unless specifically noted otherwise and design shall be delegated as stated above. Where stiffener plates are shown they shall be provided.
4. Where indicated on the structural drawings, the connections shall be designed for the scheduled forces as follows (see force diagram in symbols legend):
   a. Vertical forces (shear) indicated as "R = ".
   c. Axial forces indicated as "A = ".
   d. Moment forces indicated as "M = ".
   Note: All moment forces noted on plan should be designed for full reversibility in order to produce the worst case connection design.
5. Beam shear connections not indicated on the Structural Drawings, shall be designed for 55% of the total load capacity for the beam span shown in the beam tables in the AISC Manual referenced in the "Codes & Referenced Reports" notes.
6. Moment connections with moment values not indicated on the Structural Drawings, shall be welded to develop the full capacity of the member.
7. Brace and truss connections not indicated on the Structural Drawings, shall be designed to be welded connections to develop the full tensile capacity of the members.
8. In general, shop connections shall be bolted or welded and field connections shall be bolted.
9. Short slotted holes shall be permitted in shear connections provided washers are installed in accordance with AISC requirements. Washers shall be hardened where A325 bolts are utilized. Short slotted holes shall not be oriented parallel to axial or shear loads.

F. All welds denoted as moment connection or complete joint penetration (CJP) weld shall be ultrasonically or x-ray certified by an independent testing agency.

G. Roof edge angles shall be continuous and shall be spliced only at supports. Splices shall be butt welded or an approved connection designed by delegated designer to develop the full capacity of the member.

H. Base Plates
1. Column base plates shall be set to the elevation indicated on the Structural Drawings and leveled using shims or by double nuts on anchor bolts. Base plates shall then be grouted with a non-shrink, high strength nonmetallic grout. Tighten anchor bolts after supported members have been positioned and plumbed.
2. Hole sizes in base plates shall be oversized with plate washers per AISC Table 14-2, and welded to the baseplate per AISC minimum, U.N.O.

I. Anchor rods shall be:
1. Typical: ASTM F1554 Gr. 36, Weldable.

J. For connections not specifically addressed by these notes or the Structural Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

METAL DECKS

A. Metal Roof Deck
1. Metal Roof Deck Schedule:

Location	Gauge	SDI Deck Type	Deck Depth (in)	Sheet Width (in)	Min. Ix (in4)	Min. Sp (in3)	Min. Sn (in3)
Typ. UNO	20	WR	1.5	36	0.212	0.234	0.245

Sp = positive section modulus in3
Sn = negative section modulus in3
I = moment of inertia in4

2. Roof deck shall be galvanized.
3. Sheet steel for galvanized roof deck and accessories shall conform to ASTM A653, Structural Quality, with a minimum yield strength of 33 ksi. Galvanizing shall conform to ASTM A653 with a minimum coating of {G60 OR G90} as defined in A653.
4. Roof deck shall be continuous over four or more supports.
5. Place deck panels on structural supports and adjust to final position with ends lapped 2 inches over structural supports. Provide minimum end bearing of 2 inches.
6. Roof deck connections shall be as follows:

Location	Support Connx Pattern	Support Fastener	Sidelap Fastener/ No per span
Typical Building			
All Zones	36/4	5/8 PW	#10 Tek/ 3

At exterior sides and all beams parallel to deck span provide puddles welds at 12" on centers.

PW = Puddle Weld

7. Power driven fasteners shall be selected by the Contractor for the combinations of deck gauge and deck support member thickness. Submit proposed fasteners with complete manufacturer's information, including diaphragm shear values for the Engineer to review.
8. Puddle welds shall be 5/8" minimum diameter and shall be made through weld washers for decking lighter than 22 gauge.
9. Mechanical, electrical and plumbing systems shall not be supported by the metal roof deck.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
3057 WEST 7TH STREET, SUITE 400 — FORT WORTH, TEXAS 76107
817.546.7200 — JQENG.COM
PROJECT NO: 4220247 — TBPE FIRM # F-7986

STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED PROFESSIONAL ENGINEER

Sheet Title
STRUCTURAL NOTES

Sheet Number
S1.01

S T R U C T U R A L N O T E S

POST-INSTALLED ANCHORS AND DOWELS

A. Mechanical Anchors:
Note: Hilti products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.

1. Expansion Anchors:
   a. In Concrete: Expansion Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. Kwik Bolt TZZ (ICC-ES ESR-4266), Hilti Inc.
      2. Strong Bolt 2 (ICC-ES ESR-3037), Simpson Strong-Tie Co., Inc.
      3. Power-Stud+SD2 (ICC-ES ESR-2502), DEWALT
   b. Expansion anchors shall be installed per manufacturer's printed instructions using a calibrated torque-wrench, Hilti SI-AT-A22 Tool with Adaptive Torque, or method approved by ICC-ES Evaluation Report and approved by JQ.

2. Screw Anchors:
   a. In Concrete: Screw Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. Kwik HUS-EZ, CRC, or SS (ICC-ES ESR-3027), Hilti Inc.
      2. Titen HD (ICC-ES ESR-2713), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-3889), DEWALT
   b. In Grouted Masonry: (Installation permitted in both the top and face of wall) Screw Anchors shall have been tested and qualified in accordance with ICC-ES AC 106. Do not install anchors within 1 1/2" of a head joint, notify JQ if conflict occurs. Qualifying anchors shall be one of the following products:
      1. Kwik HUS-EZ and HUS-EZ P (ICC-ESR-3056), Hilti Inc.
      2. Titen HD (ICC-ES ESR-1056), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-4042), DEWALT

3. Undercut Anchors:
   a. In Concrete: Undercut Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. HDA (ICC-ES ESR-1546), Hilti Inc.
      2. Atomic+ Undercut Anchor (ICC-ES ESR-3067), DEWALT

4. Powder-Actuated Fasteners:
   a. In Concrete: Powder-Actuated Fasteners shall have been tested and qualified in accordance with ICC-ES AC 70. Qualifying anchors shall be one of the following:
      1. X-U (ICC-ES ESR-2269), Hilti Inc.
      2. PDPA (ICC-ES ESR-2138), Simpson Strong-Tie Co., Inc.
      3. 0.3" Ø Head Drive (ICC-ES ESR-2024), DEWALT

B. Adhesive Anchors:
Note: Hilti anchor rods & Hilti acrylic (epoxy) adhesive products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.

1. Adhesive Anchors with Threaded Rod:
   a. In Concrete: Adhesive Anchors shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Epoxy: HIT-RE 500V3 SAFESET (ICC-ES ESR-3814), Hilti Inc.
      2. Epoxy: SET-3G (ICC-ES ESR-4057), Simpson Strong-Tie Co., Inc.
      3. Epoxy: Pure 110+ (ICC-ES ESR-3298), DEWALT
      4. Acrylic: HIT-HY 200 V3 SAFESET (-A/-R) (ICC-ES ESR-4878), Hilti Inc.
      5. Acrylic: AT-XP (IAPMO-UES ER-0263), Simpson Strong-Tie Co., Inc.
      6. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT
   b. In Grouted Concrete Masonry: (Installation permitted in both the top and face of wall) Adhesive Anchors shall have been tested and qualified in accordance with ICC-ES AC 58. Qualifying anchors shall be one of the following:
      1. Acrylic: HIT HY-270 SAFESET (ICC-ES ESR-4143), Hilti, Inc.
      2. Acrylic: AT-XP (IAPMO-UES ER-0281), Simpson Strong-Tie Co., Inc.
      3. Acrylic: AC 100+Gold (ICC-ES ESR-3200), DEWALT
   c. In Ungrouted Concrete Masonry with mesh screen tube:
      1. Acrylic: HIT HY-270 (ICC-ES ESR-4143), Hilti, Inc.
      2. Acrylic: AC 100+Gold (ICC-ES ESR-4105), DEWALT
      3. Epoxy: SET-XP (IAPMO-UES ER-265), Simpson Strong-Tie Co., Inc.
   d. Threaded anchor rod shall be one of the following:
      1 Hilti adhesive: "HIT-Z" AISI 1038
      2. Simpson adhesive: Steel meeting the requirements of ASTM F1554, grade 36.
      3. DEWALT adhesive: Steel meeting the requirements of ASTM A1554, grade 36.
      4. Anchor rod shall have a chamfered end on one end to accept a nut and washer; it may have a 45-degree chisel point on the other end.
      5. Nuts and washers shall have a proof load strength at least as strong as anchor rod. Stainless steel nuts and washers shall be provided with stainless steel rods.

2. Adhesive Rebar Dowelling:
   a. Adhesive dowels are not permitted to be substituted for cast-in dowels unless authorized in advance by JQ for each specific location.
   b. Adhesive doweling systems in concrete shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Epoxy: HIT-RE 500V3 SAFESET (ICC-ES ESR-3814), Hilti Inc.
      2. Epoxy: SET-3G (ICC-ES ESR-4057), Simpson Strong-Tie Co., Inc.
      3. Epoxy: Pure 110+ (ICC-ES ESR-3298), DEWALT
      4. Acrylic: HIT-HY 200 V3 SAFESET (-A/-R) (ICC-ES ESR-4878), Hilti, Inc.
      5. Acrylic: SET-XP (ICC-ES ESR-2508), Simpson Strong-Tie Co., Inc.
      6. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT

C. Anchor and Dowel Installation Requirements
1. Anchors and dowels of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current evaluation (ICC-ES or IAPMO-UES) report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
2. The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor or dowel locations can be adjusted by a maximum of 1 1/2" from detailed locations to avoid conflicts, but shall neither change arrangement nor move closer to a concrete edge.
3. Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.
4. Holes for anchors and dowels shall be drilled in a continuous operation using the drill-bit type and size recommended by the anchor manufacturer. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. Holes shall be drilled using a hammer drill, coring shall not be allowed, unless noted otherwise.
5. Oil free compressed air shall be used to blow out the holes unless one of the approved systems noted below is utilized. Unapproved shop vacs, squeeze bulbs, etc. shall NOT be used. Refer to manufacturer's information for detailed cleaning instructions.
   a. Hilti SAFESET system with Hilti Hollow Drill Bit and Vacuum System (VC150 or VC300) may be used to eliminate hole cleaning with adhesive anchors.
   b. Simpson Speed Clean DXS system may be used to eliminate manual hole cleaning with adhesive anchors.
   c. DEWALT Dust X system with hollow drill bit may be used to eliminate manual hole cleaning with adhesive anchors.
6. All abandoned holes shall be filled with non-metallic nonshrink grout capable of reaching a design compressive strength of 5,000 psi at 28 days.
7. Holes in connection plates shall be no more than 1/16" larger than the anchor diameter for 3/4" diameter anchors or less and holes in connection plates shall be no more than 1/8" larger than the anchor diameter for 1" diameter anchors or larger; Unless specified otherwise by the manufacturer. If larger holes are required for erection purposes, Contractor shall notify Engineer such that a plate washer size can be provided.
8. At the time of anchor installation, concrete shall have a minimum compressive strength of 2500 psi and an age of 21 days.
9. The following parameters were used in the determination of the bond stress for adhesive anchors. Contractor shall notify JQ if any of these parameters are not met: Drilled hole condition: Dry
   b. No diamond core drilling
   c. Substrate temperature range at the time of installation and conditioned per manufacturer requirements:

Concrete Anchors	Minimum (°F)	Maximum (°F)
Hilti HIT RE-500V3	23	104
HIT-HY 200 V3 (-A/-R)	14	104
Simpson SET-3G	40	100
Simpson AT-XP	14	100
DEWALT Pure 110+	41	104
DEWALT AC 200+	23	104

Masonry Anchors	Minimum (°F)	Maximum (°F)
Hilti HY-270	23	70
Simpson AT-XP	14	100
Simpson SET-XP	50	70
DEWALT AC 100+	14	70

   d. Maximum short term substrate temperature after installation = 130°F
   e. Maximum long term substrate temperature after installation = 110°F

D. All post-installed anchors shall be installed by personnel trained by a manufacturer's field representative for each product to be used. A record of training shall be kept on site and be made available to the EOR as requested.

E. For adhesive anchors installed in a horizontal orientation subject to sustained tension loading and all upwardly inclined (including soffit installations) orientation:
1. Per ACI 318-14 (17.8.2.2): Installation shall be performed by personnel certified by ACI/CRSI "Adhesive Anchor Installer Certification Program." Certification shall include written and performance tests.

DESIGN BY OTHERS

A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site.
1. Steel Connections
2. Guardrail and Handrail Systems
3. Cold Formed Metal Framing
4. Curtainwall Systems
5. Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
6. Embedded assemblies, inserts, and/or hangers for fire suppression systems.
7. Excavation Support and Protection

B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
BEAM SIZE — NO. OF HEADED STUDS — WXXxXX (X) C=X" — R=XX — REACTION (FACTORED LOAD) — CAMBER	COMPOSITE STEEL BEAM
ELEVATION — PLAN — SECTION	SCHEMATIC FORCE DIAGRAM
PIER TYPE, T.O.PIER EL. T.O.PIER DETAIL	CONCRETE PIER
FTG. TYPE, T.O.FTG. EL. T.O.FTG. DETAIL	CONCRETE FTG.
MOMENT CONNECTION — BEAM SIZE — WXXxXX — MOMENT CONNECTION	STEEL BEAM MOMENT CONNECTION
COLUMN SIZE — BASE PLATE TYPE	STEEL COLUMN
C1	CONCRETE COLUMN
#	NEW COLUMN GRID
#	EXISTING COLUMN GRID
	WELDED METAL BAR GRATING
	SLAB OR DECK SPAN DIRECTION
	DROP IN SLAB OR DECK
	DROP AND SLOPE IN SLAB OR DECK
	SLOPE IN SLAB OR DECK
BRACE-x	VERTICAL STEEL BRACE
	STEEL BEAM SPLICE
	HEAVY STEEL CONNECTION
	STUDRAIL
10P, 20P, 30P, 53P, 66P	STANDARD PAN WIDTH
xxSP	SKIP PAN, xx WIDTH
	MASONRY WALL
	WINDOW IN MASONRY WALL
	DOOR IN MASONRY WALL
	NONLOAD-BEARING WALL
SW-x	SHEARWALL - SEE SCHEDULE
	LOAD-BEARING WALL, SEE SCHEDULE
SW-x	CONCRETE SHEAR WALL - SEE SCHEDULE
	EXISTING CONSTRUCTION
	MISCELLANEOUS - SEE PLAN
	DEMO
	ROOF TOP UNIT (RTU)

ABV. - ABOVE
A.F.F. - ABOVE FINISHED FLOOR
ADDN'L. - ADDITIONAL
ADH. - ADHESIVE
ADJ. - ADJACENT
AGGR. - AGGREGATE
A/C - AIR CONDITIONER
AHU - AIR HANDLING UNIT
ALT. - ALTERNATE
ALUM. - ALUMINUM
A.C.I. - AMERICAN CONCRETE INSTITUTE
A.I.S.C. - AMERICAN INSTITUE OF STEEL CONSTRUCTION
A.B. - ANCHOR BOLT
& - AND
L - ANGLE
APPD. - APPROVED
APPROX. - APPROXIMATE
ARCH. - ARCHITECT
ARCH'L - ARCHITECTURAL
A.E.C. - ARCHITECTURALLY EXPOSED CONCRETE
A.E.S.S. - ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
@ - AT

B.F. - BACK FACE
B. TO B. - BACK TO BACK
BSMT. - BASEMENT
BM. - BEAM
BRG. - BEARING
B.F.F. - BELOW FINISH FLOOR
BTWN. - BETWEEN
BEV(D) - BEVEL(ED)
BLK. - BLOCK
B.L. - BLOCK LINTEL
BLKG. - BLOCKING
BOT. - BOTTOM
B.O. - BOTTOM OF
B.O.S. - BOTTOM OF STEEL
BRKT. - BRACKET
BR.L. - BRICKLEDGE
BRDG. - BRIDGING
BLDG. - BUILDING

C - CAMBER
C.I.P. - CAST-IN-PLACE
CLG. - CEILING
C.L. - CENTER LINE
C.G. - CENTER OF GRAVITY
C.G.S. - CENTER OF GRAVITY OR STRAND
CTR'D. - CENTERED
CLR. - CLEAR OR CLEARANCE
CFS - COLD FORMED STEEL
COL. - COLUMN
C OR COMP. - COMPRESSION
CONC. - CONCRETE
CMU - CONCRETE MASONRY UNIT
CONN(S) - CONNECTION(S)
CONST. - CONSTRUCTION
CONST. JT. - CONSTRUCTION JOINT
CONT. - CONTINUOUS
CONTR. - CONTRACTOR
C.J. - CONTROL JOINT
COORD. - COORDINATE
COV. PL. - COVER PLATE

D.L. - DEAD LOAD
D.B.A. - DEFORMED BAR ANCHOR
D. - DEPTH
DTL. - DETAIL
DIAG. - DIAGONAL
DIA OR Ø - DIAMETER
DIM(S). - DIMENSION(S)
DBL. - DOUBLE
XX-STR - DOUBLE EXTRA STRONG
DVTL. - DOVETAIL
DWL(S). - DOWEL(S)
DN. - DOWN
DS. - DOWNSPOUT
DWG(S). - DRAWING(S)

EA. - EACH
E.F. - EACH FACE
E.W. - EACH WAY
E.O.D. - EDGE OF DECK
ELEC. - ELECTRICAL
EL. - ELEVATION
ELEV. - ELEVATOR
EMBED. - EMBEDMENT
ENGR. - ENGINEER
EQ. - EQUAL
EQUIP. - EQUIPMENT
EF - EXHAUST FAN
(E) - EXIST.
EXIST. - EXISTING
EXP. - EXPANSION
E.J. - EXPANSION JOINT
EXT. - EXTERIOR
X-STR - EXTRA STRONG

FABR. - FABRICATOR
F. TO F. - FACE TO FACE
F.S. - FAR SIDE
F.V. - FIELD VERIFY
FIN('D) - FINISH(ED)
FIN. FL. - FINISHED FLOOR
FP. - FIREPROOF(ING)
FLG. - FLANGE
FL. - FLOOR
F.D. - FLOOR DRAIN
FT. - FOOT (OR) FEET
FDN. - FOUNDATION
FRMG - FRAMING
F.P. - FULL PENETRATION

GA. - GAGE OR GAUGE
GALV. - GALVANIZED
G.C. - GENERAL CONTRACTOR
GR. - GRADE
GR. BM. - GRADE BEAM

H.S.A. - HEADED STUD ANCHOR
HT. - HEIGHT
H.P. - HIGH POINT
HSS - HOLLOW STRUCTURAL SECTION
HK. - HOOK
HORIZ. - HORIZONTAL
H.B. - HORIZONTAL BRACE
H.D. - HOT-DIP

IN. - INCH
INFO. - INFORMATION
I.D. - INSIDE DIAMETER
I.F. - INSIDE FACE
INT. - INTERIOR
INTERM. - INTERMEDIATE

JT. - JOINT
J.G. - JOIST GIRDER
JST(S) - JOIST(S)

KLF - KIP PER LINEAR FOOT
KSF - KIP PER SQUARE FOOT
KSI - KIP PER SQUARE INCH
K - KIPS (1000 LBS)

L. - LENGTH
L.W. - LIGHTWEIGHT
L.W.C. - LIGHTWEIGHT CONCRETE
L.L. - LIVE LOAD
LOC. - LOCATION
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LSH - LONG SIDE HORIZONTAL
LSV - LONG SIDE VERTICAL
LSL - LONG SLOTTED HOLE
LONG - LONGITUDINAL
L.P. - LOW POINT

MFR. - MANUFACTURE(R)
MAS. - MASONRY
MAT. - MATERIAL
MAX. - MAXIMUM
MECH. - MECHANICAL
MEP - MECHANICAL, ELECTRICAL, PLUMBING
MTL. - METAL
MEZZ. - MEZZANINE
MID. - MIDDLE
MIN. - MINIMUM
MISC. - MISCELLANEOUS
M - MOMENT
M.C. - MOMENT CONNECTION(S)

N.F. - NEAR FACE
NOM. - NOMINAL
N.S. - NON-SHRINK
N/A - NOT APPLICABLE
N.I.C. - NOT IN CONTRACT
N.T.S. - NOT TO SCALE
NO. OR # - NUMBER

O.C. - ON CENTER
OPNG(S) - OPENING(S)
OPP. - OPPOSITE
O.H. - OPPOSITE HAND
O.D. - OUTSIDE DIAMATER
O.F. - OUTSIDE FACE
OVS - OVER-SIZED HOLE

P - PAN
P.J. - PANEL JOINT
PAR. - PARALLEL
PERP. - PERPENDICULAR
PC. - PIECE
PL. - PLATE
PT. - POINT
P-T - POST-TENSION(ED)
OR LBS. - POUNDS
PCF - POUNDS PER CUBIC FOOT
PLF - POUNDS PER LINEAR FOOT
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
P.E.M.B. - PRE-ENGINEERED METAL BUILDING
P/C - PRECAST CONCRETE
PREFAB. - PREFABRICATED
PRELIM. - PRELIMINARY
P.T. - PRESSURE TREATED
PROJ. - PROJECTION

QTY. - QUANTITY

R - RADIUS
REINF. - REINFORCE(ING)(ED)(MENT)
RCP - REINFORCED CONCRETE PIPE
REM. - REMAINDER
REQ. - REQUIRE
REQ'D. - REQUIRED
RET. SYS. - RETENTION SYSTEM
RIS. - RISER
RF. - ROOF
R.D. - ROOF DRAIN
R.T.U. - ROOF TOP UNIT
RM. - ROOM
R.O. - ROUGH OPENING
RND. - ROUND

SCHED. - SCHEDULE(D)
SECT. - SECTION
V - SHEAR
SHT. - SHEET
SSL - SHORT SLOTTED HOLE
SW - SIDEWALK
SIM. - SIMILAR
S.O.G. - SLAB ON GRADE
SPA. - SPACE
SPEC(S) - SPECIFICATION(S)
SPEC'D - SPECIFIED
SQ. - SQUARE
S.F. - SQUARE FOOT
STAGG. - STAGGERED
S.S. - STAINLESS STEEL
STD. - STANDARD
STL. - STEEL
S.J.I. - STEEL JOIST INSTITUE
STIFF - STIFFENER
STIRR. - STIRRUPS
STR. - STRAIGHT
STRUCT'L - STRUCTURAL
STRUCT. - STRUCTURE
SUBCONTR. - SUBCONTRACTOR
SUPT(S). - SUPPORT(S)

TEMP. - TEMPERATURE
T - TENSION
TERR. - TERRAZZO
THK. - THICK
THRD. - THREAD(ED)
T&G - TONGUE AND GROOVE
T&B - TOP AND BOTTOM
T.O. - TOP OF
T.O.B. - TOP OF BEAM
T.O.C. - TOP OF CONCRETE
T.O.F. - TOP OF FOOTING
T.O.J. - TOP OF JOIST
T.O.P. - TOP OF PIER
T.O.P.C. - TOP OF PIER (PILE) CAP
T.O.S. - TOP OF STEEL
T.O.W. - TOP OF WALL
TRANSV. - TRANSVERSE
TR. - TREAD
TYP. - TYPICAL

U.N.O. - UNLESS NOTED OTHERWISE

VERT. - VERTICAL
V.B. - VERTICAL BRACE

WPFG. - WATERPROOFING
WS. - WATERSTOP
WT. - WEIGHT
W.W.M. - WELDED WIRE MESH
W. - WIDTH
W.L. - WIND LOAD
WDW. - WINDOW
W/ - WITH
W/O - WITHOUT
W.D. - WOOD
W.P. - WORK POINT

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

Sheet Title
STRUCTURAL NOTES

Sheet Number
S1.02

shaping the built environment
JQ INFRASTRUCTURE, LLC
301 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
STATE OF TEXAS — P. BRADY BUCKLES — 151149 — LICENSED PROFESSIONAL ENGINEER

SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Chapter 17 of the 2021 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.

2. Where structural load-bearing members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

VERIFICATION AND INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL[1] (AISC 360-16 Table N5.4)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to welding:				
YES	a. Welder qualification records and continuity records.	X	--		
YES	b. Welding procedure specifications (WPSs) available	X	--	AISC 360-16 N5.4-1; AWS D1.1	1705.2.1
YES	c. Manufacturer certifications for welding consumables available	X	--		
YES	d. Material identification (type/grade)[2]	--	X		
YES	e. Welder identification system[2]	--	X		
YES	f. Fit-up of groove welds (including joint geometry)[2] 1) Joint preparations 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location) 5) Backing type and fit (if applicable)	--	X		
YES	g. Fit-up of CJP groove welds of HSS T-, Y- and K-joints without backing (including joint geometry) 1) Joint preparations 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location)	X	--		
YES	h. Configuration and finish of access holes.[2]	--	X		
YES	i. Fit-up of fillet welds[2] 1) Dimensions (alignment, gaps at root) 2) Cleanliness (condition of steel surfaces) 3) Tacking (tack weld quality and location)	--	X		
YES	j. Check welding equipment	--	X		
	2. Inspection tasks during welding:				
YES	a. Control and handling of welding consumables[2] 1) Packaging 2) Exposure control	--	X		
YES	b. No welding over cracked tack welds[2]	--	X		
YES	c. Environmental conditions[2] 1) Wind speed within limits 2) Precipitation and temperature	--	X	AISC 360-16 N5.4-2; AWS D1.1	1705.2.1
YES	d. WPS followed[2] 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min./max.) 7) Proper position (F, V, H, OH)	--	X		
YES	e. Welding techniques[2] 1) Interpass and final cleaning 2) Each pass within profile limitations 3) Each pass meets quality requirements	--	X		
YES	f. Placement and installation of steel headed stud anchors	X	--		
	3. Inspection tasks after welding:				
YES	a. Welds cleaned	--	X		
YES	b. Size, length and location of welds	X	--		
YES	c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity	X	--	AISC 360-16 N5.4-3; AWS D1.1	1705.2.1
YES	d. Arc strikes	X	--		
YES	e. k-area[3]	X	--		
YES	f. Weld access holes in rolled heavy shapes and built-up heavy shapes[4]	X	--		
YES	g. Backing removed and weld tabs removed (if required)	X	--		
YES	h. Repair activities	X	--		
YES	i. Document acceptance or rejection of welded joint or member	X	--		
YES	j. No prohibited welds have been added without the approval of the EOR	X	--		

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 and assigned to the Quality Control Inspector (QCI)

2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

3. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.

4. After rolled heavy shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks.

VERIFICATION AND INSPECTION TASKS FOR BOLTING STRUCTURAL STEEL[1] (AISC 360-16 Tables N5.6)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to bolting:				
YES	a. Manufacturer's certifications available for fastener materials	X	--	AISC 360-16 N5.6-1	1705.2.1
YES	b. Fasteners marked in accordance with ASTM requirements	--	X		
YES	c. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)[2]	--	X		
YES	d. Correct bolting procedure selected for joint detail[2]	--	X		
YES	e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	--	X		
YES	f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	--	X		
YES	g. Proper storage provided for bolts, nuts, washers and other fastener components	--	X		
	2. Inspection tasks during bolting:				
YES	a. Fastener assemblies placed in all holes and washers and nuts are postioned as required[2]	--	X	AISC 360-16 N5.6-2	1705.2.1
YES	b. Joint brought to the snug-tight condition prior to the pretensioning operation[2]	--	X		
YES	c. Fastener component not turned by the wrench prevented from rotating.[2]	--	X		
YES	d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	--	X		
	3. Inspection tasks after bolting:				
YES	a. Document acceptance or rejection of bolted connections	X	--	AISC 360-16 N5.6-3	1705.2.1

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 and assigned to the Quality Control Inspector (QCI)

2. Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection or Execution Tasks Prior to Deck Placement				
YES	a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	X	--	SDI QA/QC-2017 Table 1.1	IBC 1705.2.2
YES	b. Document acceptance or rejection of deck and deck accessories	X	--		
	2. Inspection or Execution Tasks After Deck Placement				
YES	a. Verify compliance of deck and all deck accessories installation with construction documents	X	--	SDI QA/QC-2017 Table 1.2	IBC 1705.2.2
YES	b. Verify deck materials are represented by the mill certifications that comply with the construction documents	X	--		
YES	c. Document acceptance or rejection of installation of deck and deck accessories	X	--		
	3. Inspection or Execution Tasks Prior to Welding				
YES	a. Welding procedure specifications (WPS) available	X	--	SDI QA/QC-2017 Table 1.3	IBC 1705.2.2
YES	b. Manufacturer certifications for welding consumables available	X	--		
YES	c. Material identification (type/grade)	--	X		
YES	d. Check welding equipment	--	X		
	4. Inspection or Execution Tasks During Welding				
YES	a. Use of qualified welders	--	X	SDI QA/QC-2017 Table 1.4	IBC 1705.2.2
YES	b. Control and handling of welding consumables	--	X		
YES	c. Environmental conditions (wind speed, moisture, temperature)	--	X		
YES	d. WPS followed	--	X		
	5. Inspection or Execution Tasks After Welding				
YES	a. Verify size and location of welds, including support, sideslab, and perimeter welds	X	--	SDI QA/QC-2017 Table 1.5	IBC 1705.2.2
YES	b. Welds meet visual acceptance criteria	X	--		
YES	c. Verify repair activities	X	--		
YES	d. Document acceptance or rejection of welds	X	--		
	6. Inspection or Execution Tasks Prior to Mechanical Fastening				
YES	a. Manufacturer installation instructions avaliable for mechnical fasteners	X	--	SDI QA/QC-2017 Table 1.6	IBC 1705.2.2
YES	b. Proper tools avaliable for fasteners installation	--	X		
YES	c. Proper storage for mechanical fasteners	--	X		
	7. Inspection or Execution Tasks During Mechanical Fastening				
YES	a. Fasteners are positioned as required	--	X	SDI QA/QC-2017 Table 1.7	IBC 1705.2.2
YES	b. Fasteners are installed in accordance with manufacturer's instructions	--	X		
	8. Inspection or Execution Tasks After Mechanical Fastening				
YES	a. Check spacing, type, and installation of support fasteners	X	--	SDI QA/QC-2017 Table 1.8	IBC 1705.2.2
YES	b. Check spacing, type, and installation of sidelap fasteners	X	--		
YES	c. Check spacing, type, and installation of perimeter fasteners	X	--		
YES	d. Verify repair activities	X	--		
YES	e. Document acceptance or rejection of mechanical fasteners	X	--		

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Inspect reinforcement, including prestressing tendons, and verify placement.	--	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	--
	2. Reinforcing bar welding:				
YES	a. Verify weldability of reinforcing bars other than ASTM A706	--	X[1]	AWS D1.4 ACI 318: 26.6.4	--
YES	b. Inspect single-pass fillet welds, maximum 5/16"	--	X		
YES	c. Inspect all other welds.	X[1]	--		
YES	3. Inspect anchors and dowels cast in concrete.	--	X[1]	ACI 318: 17.8.2	--
	4. Inspect post-installed anchors and dowels in hardened concrete.				
NO	a. Mechanical anchors and adhesive anchors and dowels installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X[2]	--	ACI 318: 17.8.2.4	--
NO	b. Mechanical anchors and adhesive anchors and dowels not defined in 4.a.	--	X[2]	ACI 318: 17.8.2	
YES	5. Verify use of required design mix.	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
YES	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X[3]	--	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	--
YES	7. Inspect concrete and shotcrete placement for proper application techniques.	X	--	ACI 318: 26.5	--
YES	8. Verify maintenance of specified curing temperature and techniques.	--	X	ACI 318: 26.5.3-26.5.5	--
	9. Inspection of prestressed concrete:				
NO	a. Application of prestressing forces	X	--	ACI 318: 26.10	--
NO	b. Grouting of bonded prestressing tendons	X	--	ACI 318: 26.10	
NO	10. Inspect erection of precast concrete members.	--	X	ACI 318: 26.9	--
	11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E or F, inspect such connections and reinforcement in the field for:				
NO	a. Installation of the embedded parts	X	--	ACI 318: 26.13.1.3	--
NO	b. Completion of the continuity of reinforcement across joints.	X	--	ACI 550.5	
NO	c. Completion of connections in the field.	X	--		
NO	12. Inspect installation tolerances of precast concrete diaphragm for compliance with ACI 550.5.	--	X	ACI 318: 26.13.1.3	--
YES	13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	--	X[3]	ACI 318: 26.11.2	--
YES	14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	--	X	ACI 318: 26.11.1.2(b)	--

1. Special Inspections of welding and qualifications of special inspectors for reinforcing bars shall be in accordance with the requirements of AWS D1.4 for special inspection and AWS D1.4 for special inspector qualification.

2. Post-Installed anchors and dowels shall be either (a.) visually inspected during installation, or (b.) load tested after installation as noted below:
   a. Visual inspections shall be performed during the installation by a Special Inspector certified by ACI as a "Post-Installed Concrete Anchor Installation Inspector". Submit a report to the licensed design professional and building official documenting that the work covered by the report has been performed and that the materials used and the installation procedures used conform with the approved construction documents and the Manufacturer's Printed Installation Instructions.
   b. Load Testing shall comply with the following:
      i. Test at least ten (10) percent of each type and diameter of post-installed anchors. If one or more anchors fail the test, all post-installed anchors of the same diameter and type installed the same day as the failed anchor shall be load tested at the contractor's expense. If additional anchors fail, the engineer may require testing all anchors of the same diameter and type already installed at the contractor's expense.
      ii. Tension testing shall comply with ASTM E488
      iii. Test post-installed anchors to 50 percent of ultimate tensile capacity of post-installed anchor.
      iv. Apply test loads with a calibrated hydraulic ram.
      v. Displacement of post-installed anchors shall not exceed D/10, where D is nominal diameter of anchor being tested.
      vi. Correct defective work by removing and replacing or correcting, as directed by engineer.
      vii. Contractor shall pay for all corrections, engineering, and additional testing associated with failed anchor tests.
      viii. Testing agency shall submit test results to contractor and engineer with 24 hours of completion of test.

3. In the absence of sufficient data or documentation providing evidence of conformance to quality standards for materials in Chapters 19 and 20 of ACI 318, the building official shall require testing of materials in accordance with the appropriate standard and criteria for the material in Chapters 19 and 20 of ACI 318.

VERIFICATION AND INSPECTION OF SOILS (IBC TABLE 1705.6)

SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	--	X
YES	2. Verify excavations are extended to proper depth and have reached proper material.	--	X
YES	3. Perform classification and testing of compacted fill materials.	--	X
YES	4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	X	--
YES	5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	--	X

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

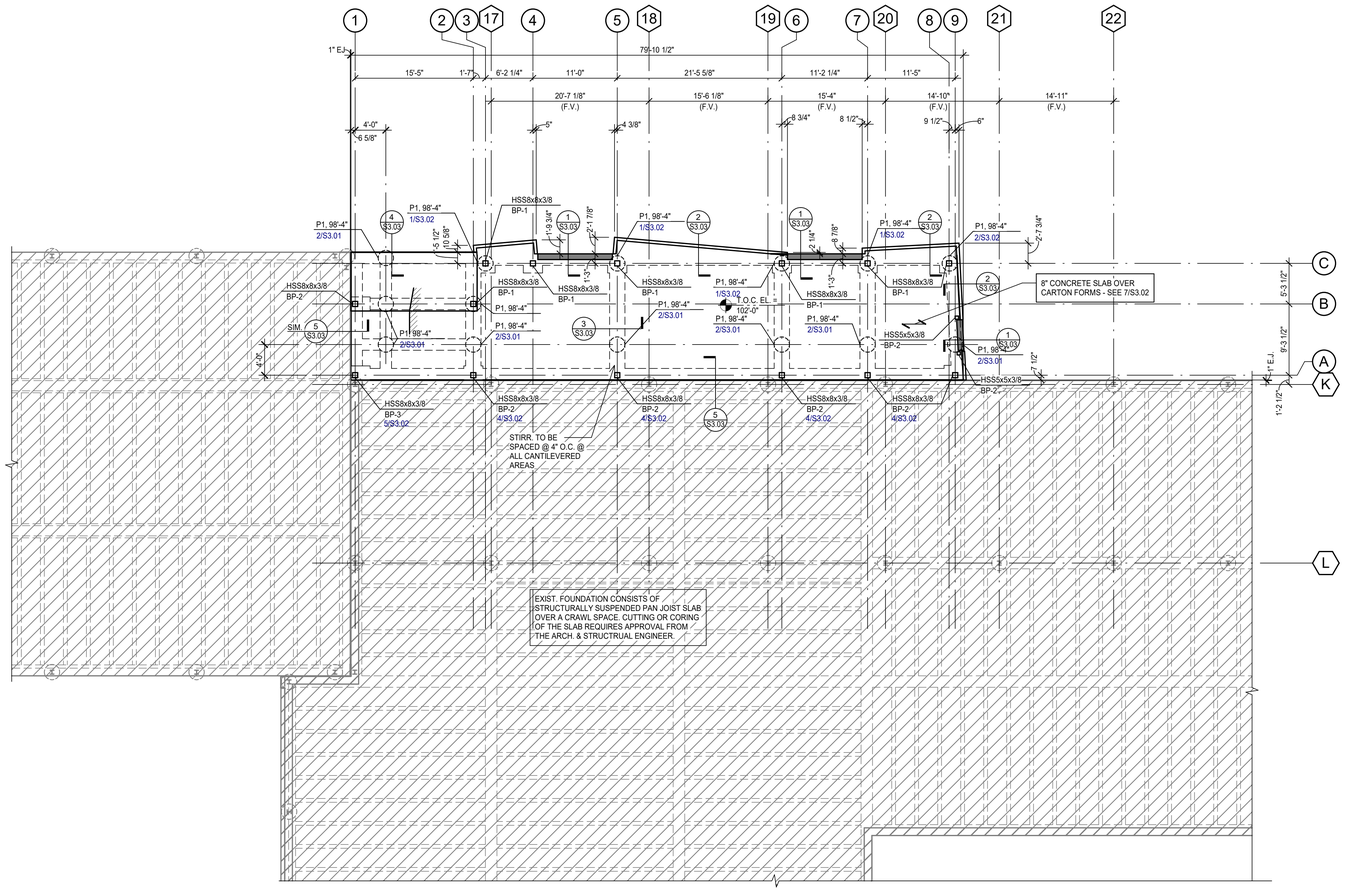
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED PROFESSIONAL ENGINEER

Sheet Title
SPECIAL INSPECTIONS

Sheet Number
S1.03



north

1 FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 102'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 525.31' = 102'-0". FIELD VERIFY EXISTING FINISH FLOOR ELEVATION AT BUILDING TIE-IN LOCATION. FINISH FLOOR OF NEW ADDITION IS TO MATCH EXISTING. NOTIFY THE ARCHITECT OF ANY DIFFERENCES.
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.
   B. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
   C. COLUMNS EMBEDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.
6. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.
7. PENETRATIONS THROUGH THE EXISTING STRUCTURE SHALL BE LAYED OUT PRIOR TO CUTTING/CORING, AND SUBMITTED TO THE ARCHITECT FOR REVIEW. EXISTING REINFORCING STEEL IN THE AREA OF CUTTING/CORING SHALL BE LOCATED BY NON- DESTRUCTIVE MEANS (GPR, FERROSCAN, ETC.) AND SUBMITTED ALONG WITH THE PENETRATIONS FOR REVIEW. EXISTING REINFORCING STEEL SHALL NOT BE CUT WITHOUT APPROVAL.
7. TYPICAL CONCRETE SLAB THICKNESS IS 8" (OVERALL), UNLESS NOTED OTHERWISE.

SHEET INDEX:

STRUCTURAL NOTES	- S1.01, S1.02
TYPICAL DETAILS	- S3.01, S3.02
PIER SCHEDULE	- S3.01
BASE PLATE SCHEDULE	- S5.01

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

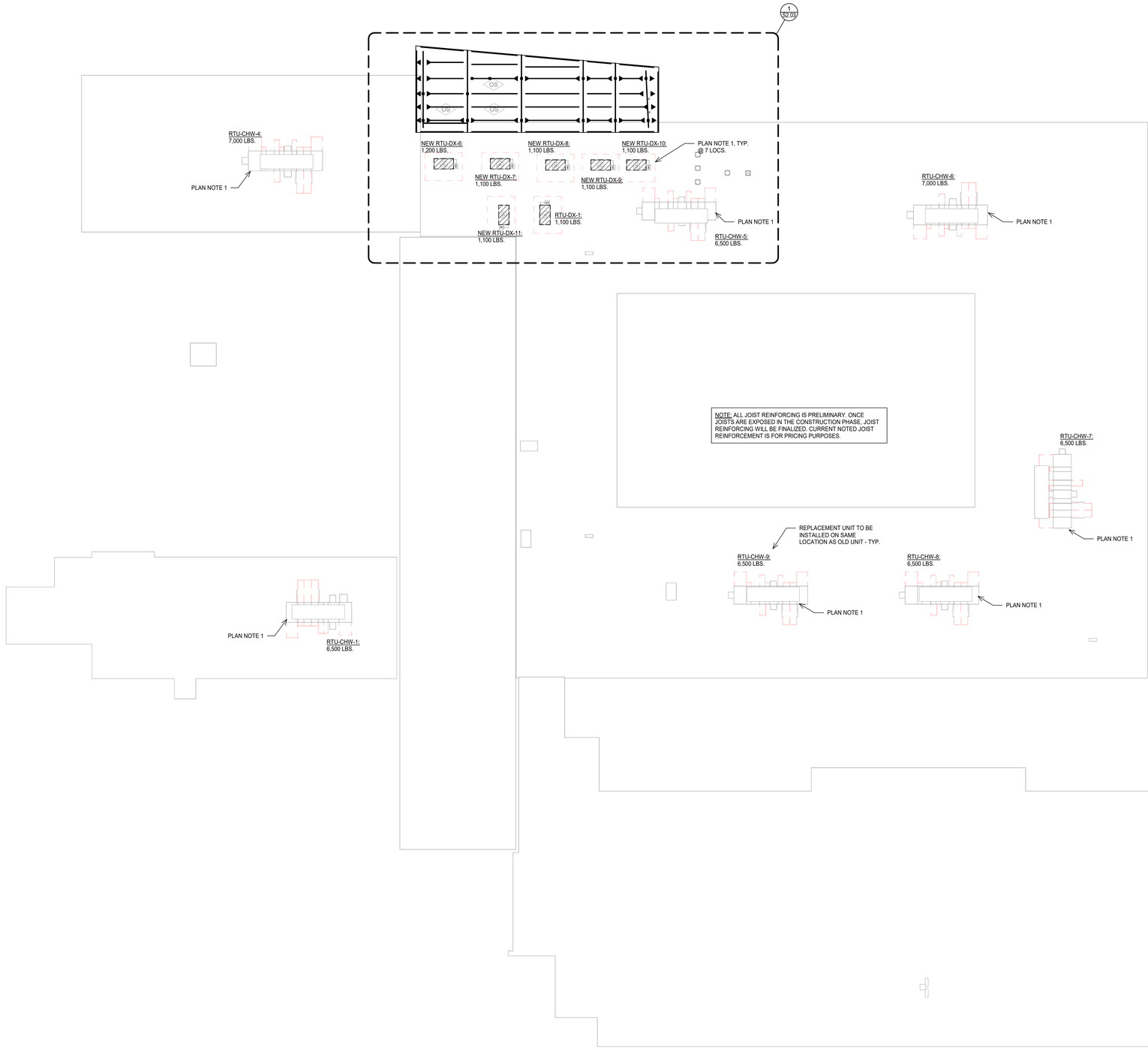
HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

shaping the built environment
JQ Infrastructure
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400 FORT WORTH, TEXAS 76107
817.546.7200 JQENG.COM
PROJECT NO: 4220247 TBPE FIRM # F-7986
STATE OF TEXAS P. BRADY BUCKLES 151149 LICENSED PROFESSIONAL ENGINEER 10/22/2025

Sheet Title
FOUNDATION PLAN

Sheet Number
S2.01



north

1 OVERALL ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. SEE S5.03 & S5.04 FOR TYPICAL DETAILS.

PLAN NOTES:

1. ALL JOISTS SUPPORTING RTU TO BE REINFORCED PER DETAILS 5/S5.03, 6/S5.03 & 7/S5.03

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

shaping the built environment
JQ infrastructure
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400 FORT WORTH, TEXAS 76107
817.546.7200 JQENG.COM
PROJECT NO: 4220247 TBPE FIRM # F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS

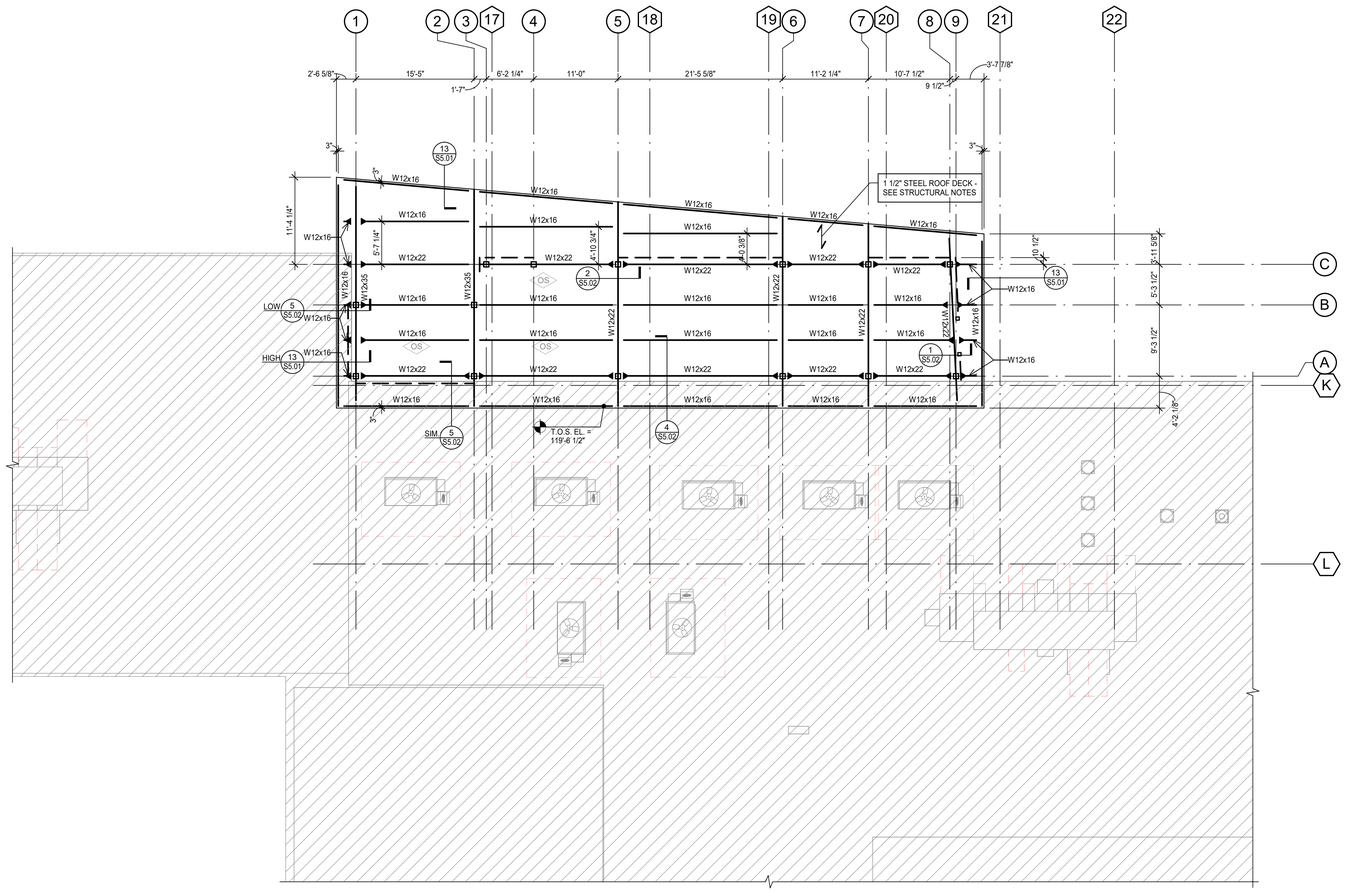
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

Sheet Title
ROOF FRAMING PLAN - OVERALL

Sheet Number
S2.02



north

1 ROOF FRAMING PLAN - ADDITION

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
2. TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
3. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.

SHEET INDEX:

STRUCTURAL NOTES	- S1.01, S1.02
TYPICAL DETAILS	- S5.01, S5.02, S5.03, S5.04

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

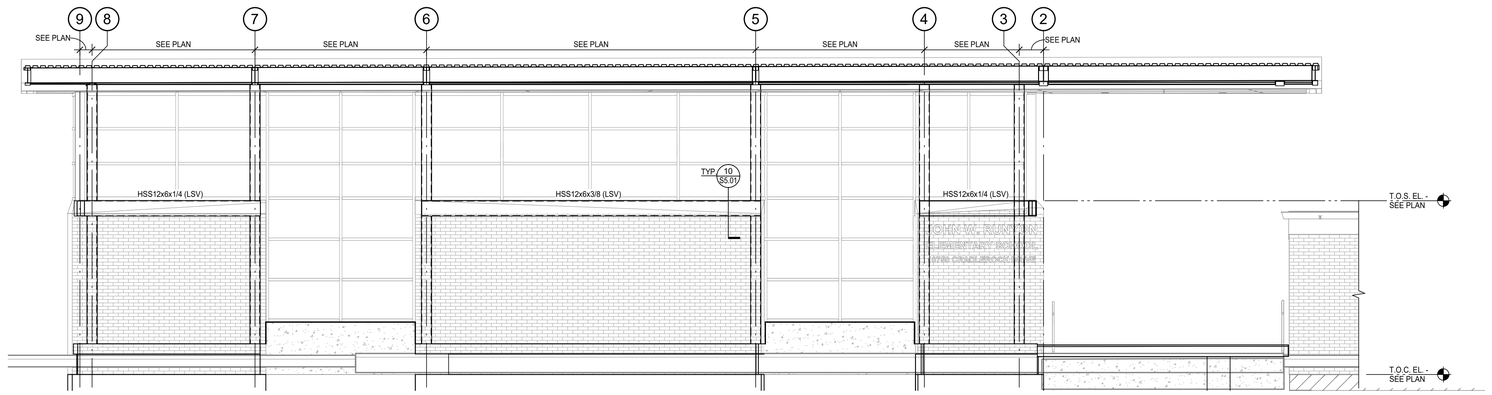
HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

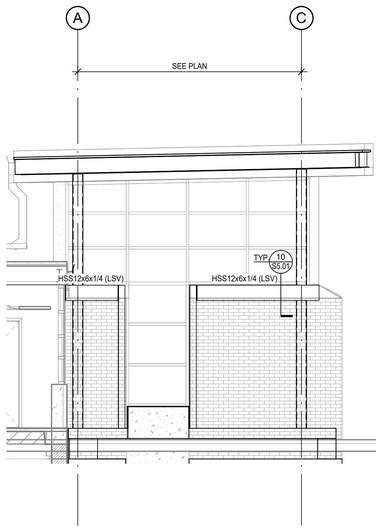
shaping the built environment
JQ INFRASTRUCTURE, LLC
301 7 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

Sheet Title
ROOF FRAMING PLAN - ADDITION

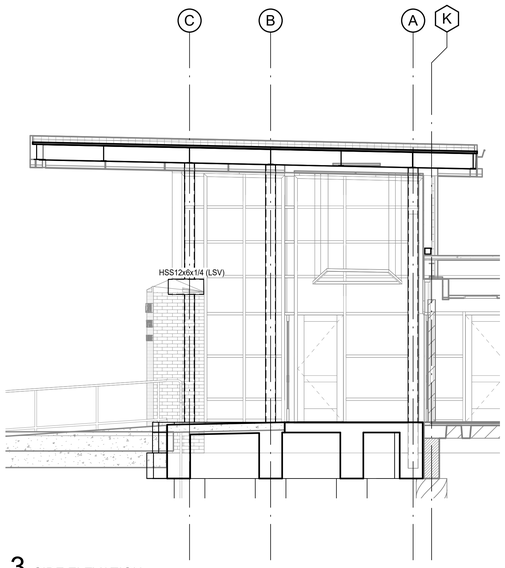
Sheet Number
S2.03



1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



2 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



3 SIDE ELEVATION
SCALE: 1/4" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

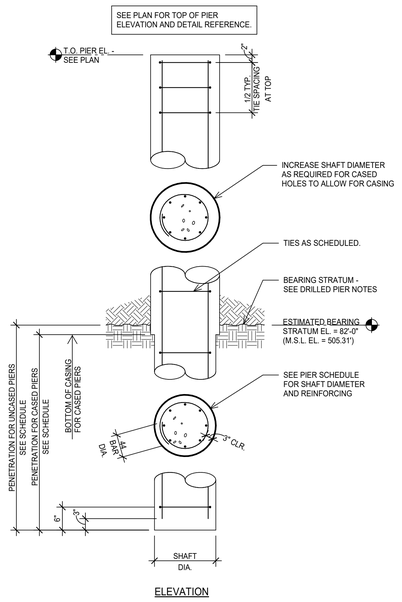
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

Sheet Title
WALL ELEVATIONS

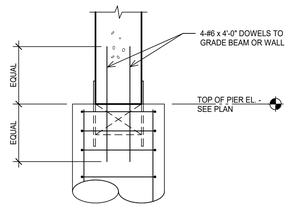
Sheet Number
S2.10



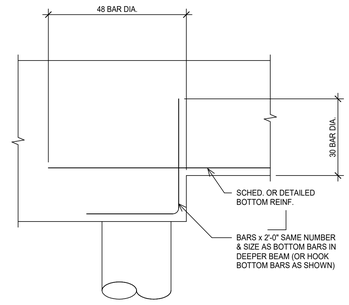
ELEVATION

PIER SCHEDULE					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY (ASD)
P1	2'-0"	6-#8	#3 @ 12" O.C.	7'-0"	50 KIPS

1 TYPICAL CASED DRILLED PIER DETAIL
NO SCALE

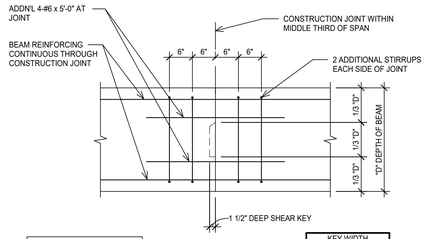


2 TYPICAL GRADE BEAM OR WALL TOP OF PIER DETAIL
NO SCALE



ELEVATION

3 TYPICAL DROP IN BOTTOM OF GRADE BEAM DETAIL
NO SCALE



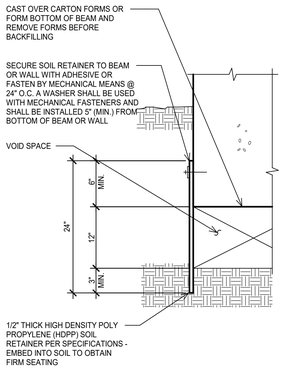
NOTES:
1. THIS DETAIL APPLIES TO BEAMS ≤ 4'-0" DEPTH.

ELEVATION

KEY WIDTH	
GRADEBEAM WIDTH "T"	W
≤ 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

4 TYPICAL CONCRETE BEAM CONSTRUCTION JOINT DETAIL
NO SCALE

CITY OF DALLAS STAMP



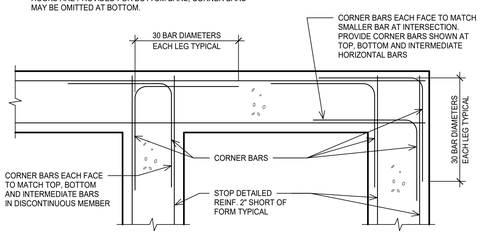
NOTES:

1. FORM ALL SIDES OF ALL BELOW GRADE BEAMS, WALLS, PILASTERS, AND PIER CAPS. EARTH FORMING IS NOT PERMITTED.
2. PLACE SOIL RETAINERS AT SIDES OF VOID SPACE UNDER ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE.
3. SLABS HAVE BEEN DESIGNED FOR DEGRADABLE VOID PRODUCTS. USE OF A DIFFERENT PRODUCT IS PROHIBITED.
4. INSTALL SOIL RETAINERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:
   A. PLACE BASE OF SOIL RETAINER IN A 3" DEEP TRENCH CUT IN UNDISTURBED SOIL OR COMPACTED FILL.
   B. STARTING AT END OF BEAM OR WALL PANEL, LAY SOIL RETAINER IN TRENCH AND PLACE VERTICAL AGAINST BEAM OR WALL PANEL. OVERLAP ENDS OF ADJACENT SOIL RETAINERS 6" MIN. & SECURE TO BEAM OR WALL THROUGH OVERLAP.
   C. CUT TO FIT ENDS OF BEAMS OR WALL PANELS. CUT LENGTHS LESS THAN 1'-0" IN LENGTH SHALL NOT BE USED.
   D. PLACE BACKFILL AS SPECIFIED AFTER COMPLETION OF SOIL RETAINER INSTALLATION. TAKE NECESSARY PRECAUTIONS TO PROTECT SOIL RETAINERS FROM DAMAGE FROM COMPACTION EQUIPMENT.
5. STORE RETAINERS FLAT AND PROTECTED FROM DIRECT SUNLIGHT TO AVOID WARPAGE.

5 TYPICAL HDPP SOIL RETAINER DETAIL
NO SCALE

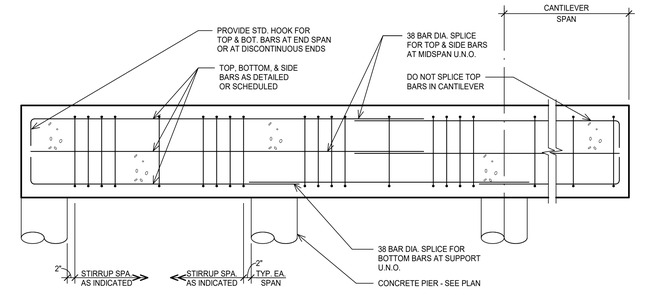
NOTES:

1. MATCH SIZE, LOCATION AND NUMBER OF HORIZONTAL BEAM AND WALL BARS, EXCEPT THAT WHERE THERE ARE MORE THAN 2 TOP OR BOTTOM BARS, ONLY THE INSIDE AND OUTSIDE BARS MUST BE MATCHED.
2. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR TOP BARS CORNER BARS MAY BE OMITTED AT TOP. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR BOTTOM BARS, CORNER BARS MAY BE OMITTED AT BOTTOM.



PLAN

6 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL
NO SCALE



NOTES:

1. BAR SPLICE LENGTHS SHALL BE AS INDICATED UNLESS SCHEDULED OR NOTED OTHERWISE.
2. INCREASE ALL LAP LENGTHS BY 25% @ 75 ksi REINF. BARS - TYP.

ELEVATION

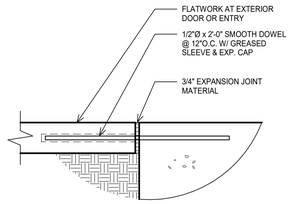
7 TYPICAL GRADE BEAM REINFORCING DETAIL
NO SCALE

DOWEL SCHEDULE			
MARK	SIZE	A	B
DWL-A	#4	8"	3'-0"
DWL-B	#4	3'-0"	3'-0"
DWL-C	#4	-	4'-0"
DWL-D	3/4" DIA. THD.	-	4'-0"
DWL-E	1/2" DIA. THD.	-	3'-0"

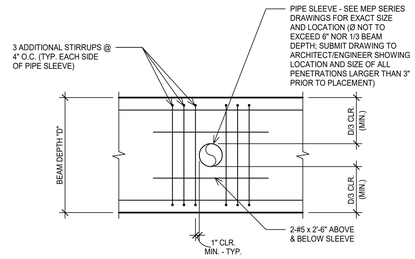
NOTES:

1. SCHEDULED DOWELS ARE MARKED "DWL-" ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT UNLESS NOTED OTHERWISE ON DETAILS.
3. DOWELS WITH "THD-" IN "SIZE" COLUMN SHALL BE RICHMOND "CONTINUOUS THREADED LAGSTUD (2/2S)" WITH RICHMOND "STANDARD 1/2"x4" 2/15 ANCHOR W/ WASHER" FOR 1/2" DIA. DOWELS AND "STANDARD 3/4"x6" 2/15 ANCHOR W/ WASHER" ANCHORS FOR 3/4"Ø DOWELS OR EQUAL.

8 DOWEL SCHEDULE
NO SCALE

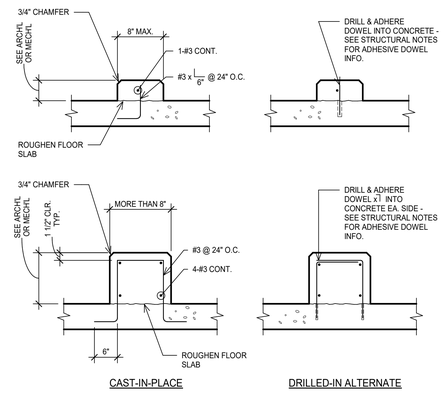


9 TYPICAL FLATWORK AT EXTERIOR DOORS AND ENTRIES DETAIL
NO SCALE



ELEVATION

10 TYPICAL HORIZONTAL GRADE BEAM PENETRATION DETAIL
NO SCALE



CAST-IN-PLACE DRILLED-IN ALTERNATE

11 TYPICAL CONCRETE CURB DETAILS
NO SCALE

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

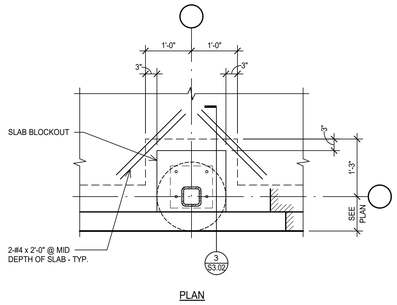
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

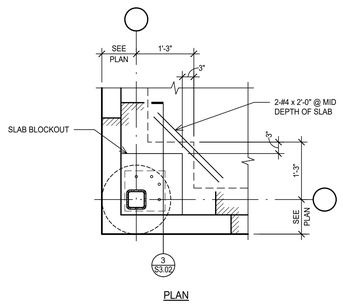
1	Date 1	Revision 1

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400 FORT WORTH, TEXAS 76107
817.546.7200 JQENG.COM
PROJECT NO: 4220247 TBPE FIRM F-7986
STATE OF TEXAS P. BRADY BUCKLES 151149 LICENSED PROFESSIONAL ENGINEER

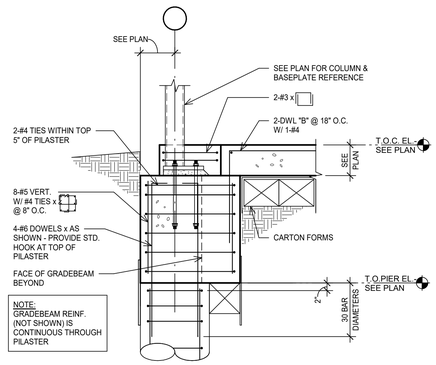
Sheet Title
TYPICAL CONCRETE DETAILS
Sheet Number
S3.01



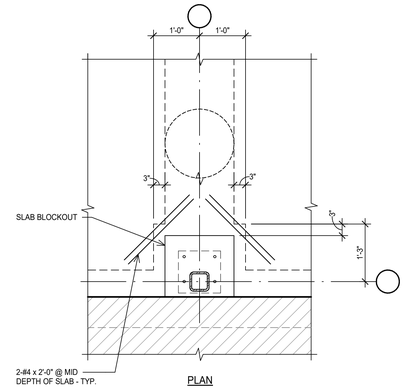
1 TYPICAL EXTERIOR TOP OF PIER DETAIL
NO SCALE



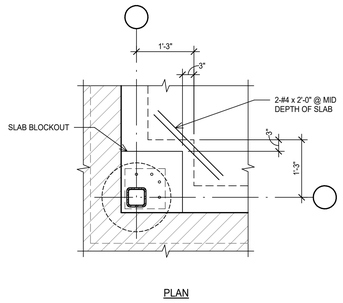
2 TYPICAL EXTERIOR TOP OF PIER DETAIL
NO SCALE



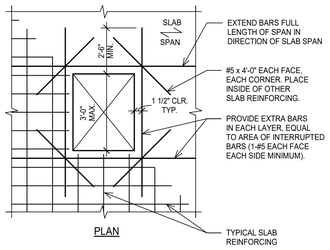
3 TYPICAL EXTERIOR TOP OF PIER DETAIL
NO SCALE



4 TYPICAL EXTERIOR TOP OF PIER DETAIL
NO SCALE

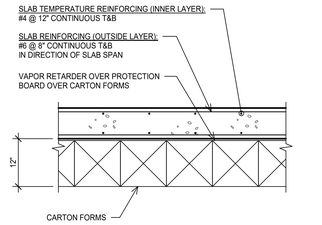


5 TYPICAL EXTERIOR TOP OF PIER DETAIL
NO SCALE



NOTE:
EXTRA BARS MAY BE OMITTED WHERE SIDES OF OPENING ARE FRAMED BY BEAMS.

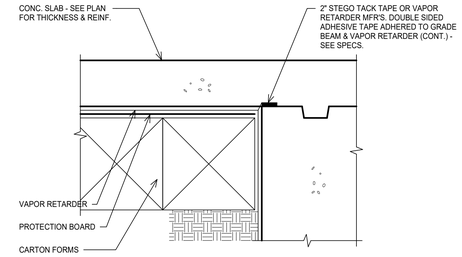
6 TYPICAL REINFORCEMENT AT CONCRETE SLAB OPENING DETAIL
NO SCALE



NOTES:

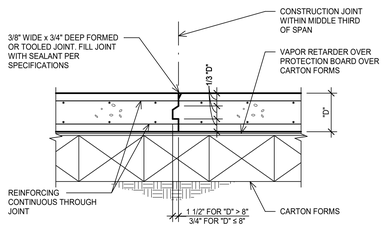
1. REPLACE CARTON FORMS THAT HAVE BEEN DAMAGED OR IF THEY BECOME SATURATED AND WEAK. TAKE SPECIAL CARE TO PREVENT CRUSHING OF CARTON FORMS DURING PLACEMENT OF REINFORCING AND CONCRETE.
2. SLABS HAVE BEEN DESIGNED FOR DEGRADABLE VOID PRODUCTS. USE OF A DIFFERENT PRODUCT IS PROHIBITED.
3. SEE PLAN FOR DIRECTION OF SLAB SPAN.
4. PROVIDE #4 x 8'-0" @ 12" O.C. TOP INNER LAYER PERPENDICULAR TO BEAMS SPANNING PARALLEL WITH THE SLAB SPAN.

7 TYPICAL SLAB-ON-VOID DETAIL
NO SCALE



NOTE:
VAPOR RETARDER WILL SIT DIRECTLY ON TOP OF THE PROTECTION BOARD (BELOW THE SLAB).

8 TYPICAL SLAB-ON-VOID FORM DETAIL - VAPOR RETARDER TERMINATION
NO SCALE



9 TYPICAL STRUCTURAL SLAB CONSTRUCTION JOINT DETAIL
NO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

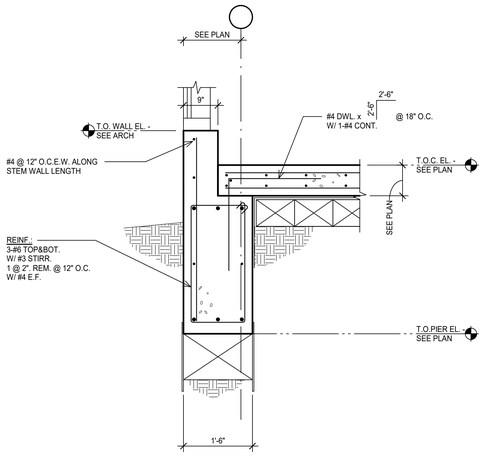
Project Number
2022.012
Issue Date
10/22/2025
Revised:

1	Date 1	Revision 1

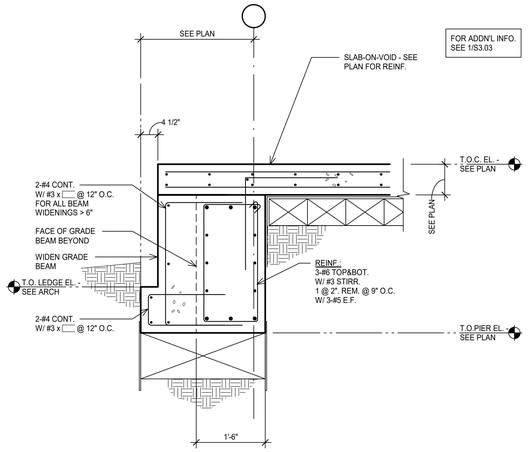
shaping the built environment
JQ INFRASTRUCTURE, LLC
301 7 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986

STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED PROFESSIONAL ENGINEER

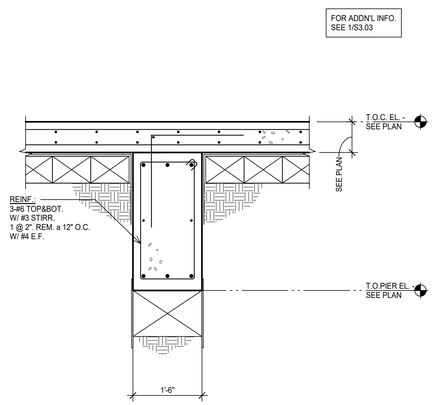
Sheet Title
TYPICAL CONCRETE DETAILS
Sheet Number
S3.02



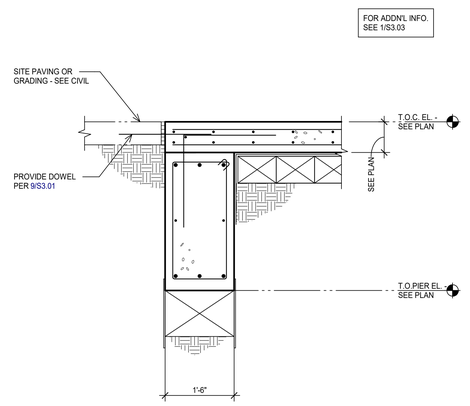
1 SECTION
SCALE: 3/4" = 1'-0"



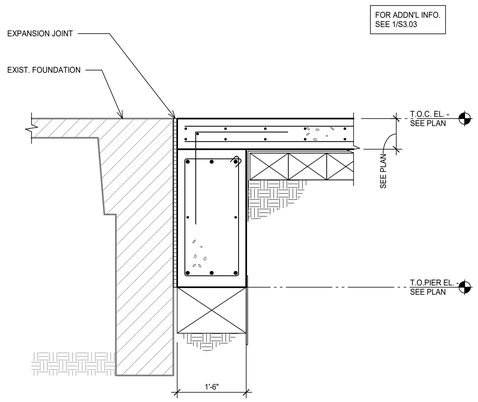
2 SECTION
SCALE: 3/4" = 1'-0"



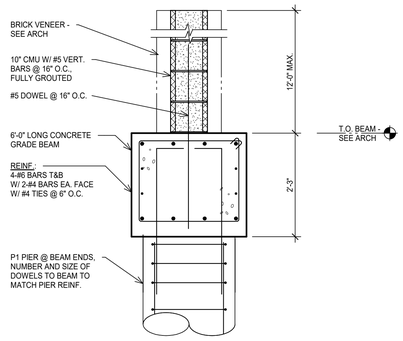
3 SECTION
SCALE: 3/4" = 1'-0"



4 SECTION
NO SCALE



5 SECTION
SCALE: 3/4" = 1'-0"



6 MONUMENT SIGN FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

1 Date 1 Revision 1

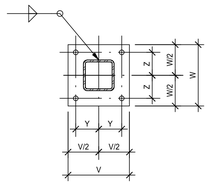
shaping the built environment
JQ INFRASTRUCTURE, LLC
301 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

Sheet Title
CONCRETE
DETAILS

Sheet Number
S3.03

BASE PLATE & ANCHOR BOLT SCHEDULE									
MARK	BASE PLATE DIMENSIONS					DETAIL	ANCHOR BOLTS		
	V	W	Y	Z	T		NO./TYPE	DIA.	EMBED LENGTH
BP-1	1'-4"	1'-4	6"	6"	3/4"	2/S5.03	4/AB-1	3/4"	12
BP-2	1'-4"	1'-4	6"	8 1/2"	3/4"	3/S5.03	4/AB-1	3/4"	12
BP-3	1'-4"	1'-4	6"	9 1/2"	3/4"	4/S5.03	4/AB-1	3/4"	12

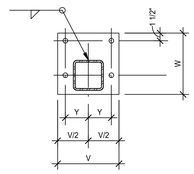
1 BASE PLATE & ANCHOR BOLT SCHEDULE
NO SCALE



NOTES:

1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/S5.01

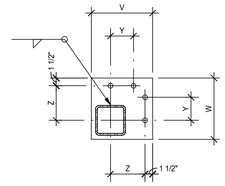
2 TYPICAL BASE PLATE DETAIL
NO SCALE



NOTES:

1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/S5.01

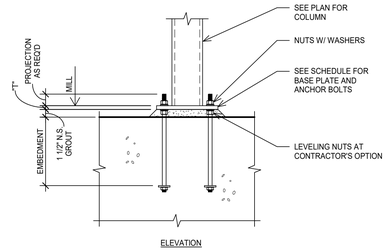
3 TYPICAL BASE PLATE DETAIL - EDGE COLUMN
NO SCALE



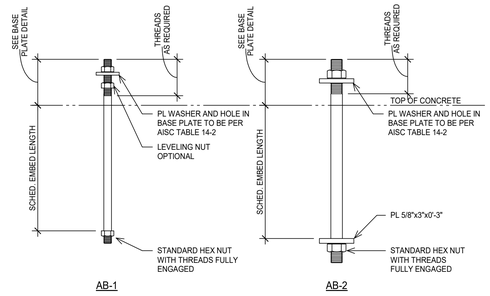
NOTES:

1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/S5.01

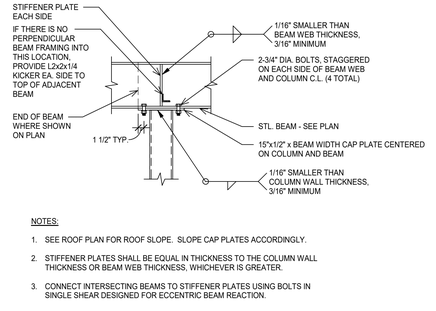
4 TYPICAL BASE PLATE DETAIL - CORNER COLUMN
NO SCALE



5 TYPICAL COLUMN BASE PLATE DETAIL
NO SCALE



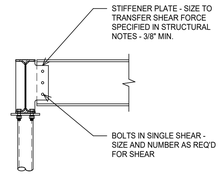
6 TYPICAL ANCHOR BOLT TYPES
NO SCALE



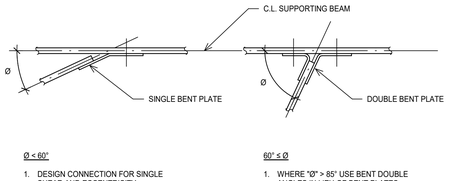
NOTES:

1. SEE ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.
2. STIFFENER PLATES SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.

7 TYPICAL CAP PLATE - BOLTED CONNECTION DETAIL
NO SCALE



8 TYPICAL BOLTED SIMPLE BEAM TO GIRDER WEB CONNECTION AT COLUMN BRACING
NO SCALE



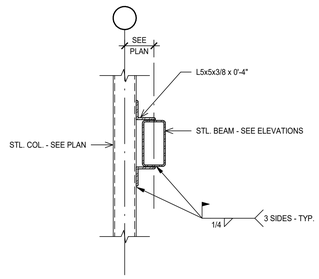
Ø < 60°

1. DESIGN CONNECTION FOR SINGLE SHEAR AND ECCENTRICITY.

60° ≤ Ø

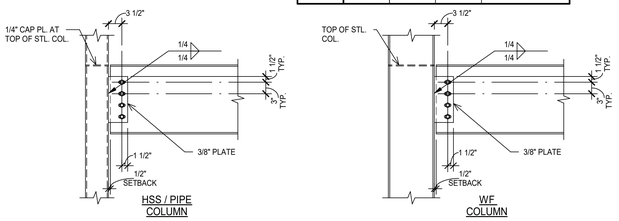
1. WHERE "Ø" > 85° USE BENT DOUBLE ANGLES IN LIEU OF BENT PLATES.

9 TYPICAL SKEWED SIMPLE FRAMING CONNECTIONS DETAIL
NO SCALE



10 TYPICAL BEAM BYPASS CONNECTION
SCALE: 3/4" = 1'-0"

CONNECTION LOAD CAPACITY (NOTE 4)				
NOM. BM. SIZE	# OF BOLTS PER VERT. COL.	MIN. HSS/PIPE SUPPORT THICKNESS	MIN. WF SUPPORT THICKNESS	MAX. REACTION (KIPS)
				3/4"Ø BOLTS
W8	2	0.233"	0.170"	19
W10	2	0.233"	0.190"	21
W12	3	0.233"	0.200"	41
W14	4	0.233"	0.230"	61
W16	4	0.233"	0.250"	61
W18	5	0.233"	0.300"	80
W21	6	0.233"	0.350"	99
W24	7	0.233"	0.395"	117
W27	8	0.233"	0.395"	135
W30	9	0.233"	0.395"	153
W33	9	0.233"	0.395"	153
W36	10	0.233"	0.395"	171
W40	11	0.233"	0.395"	189
W44	12	0.233"	0.395"	207

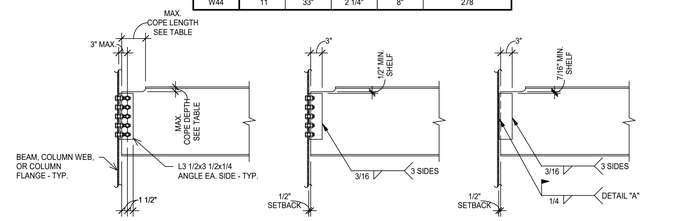


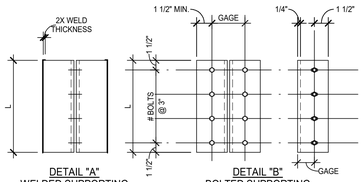
NOTES:

1. ALL BEAM REACTIONS ARE IN KIPS, AT STRENGTH LEVEL LOADS (FACTORED).
2. TABULATED CONNECTION CAPACITIES ARE BASED ON THE GRADES IN THE STRUCTURAL NOTES AND 70 KSI FILLER METAL.
3. BEAMS SHALL HAVE STD. HOLES AND PLATES SHALL HAVE HORIZONTAL SSL HOLES. REFERENCE AISC SPEC. J3.3 FOR HOLE SIZES.
4. THESE CAPACITIES ARE APPLICABLE FOR BEAMS WHICH ONLY HAVE VERTICAL (R=) REACTIONS AND MEET THE CONDITIONS PROVIDED IN THE DETAIL. DELEGATED DESIGNER SHALL PROVIDE CONNECTION CALCULATIONS FOR CONNECTION CONDITIONS THAT EXCEED THE LIMITATIONS OF THIS DETAIL. REFER TO "STRUCTURAL STEEL CONNECTIONS" IN THE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

11 TYPICAL BEAM TO HSS / PIPE / WF COLUMN SHEAR TAB CONNECTION DETAIL
NO SCALE

CONNECTION LOAD CAPACITY - TOP COPE ONLY (NOTE 4)					
NOM. BM. SIZE	# OF BOLTS	ANGLE LENGTH (L)	MAX. COPE DEPTH	MAX. COPE LENGTH	MAX. REACTION (KIPS)
					3/4"Ø BOLTS
W8	2	6"	1 1/4"	6"	13
W10	2	6"	1 1/4"	6"	23
W12	2	6"	1 1/4"	6"	29
W14	3	9"	1 1/4"	6"	47
W16	3	9"	1 1/4"	6"	51
W18	4	12"	1 1/4"	6"	80
W21	5	15"	1 1/4"	7"	116
W24	5	15"	1 1/2"	8"	130
W27	6	18"	1 3/4"	8"	156
W30	7	21"	1 3/4"	8"	181
W33	8	24"	1 3/4"	8"	205
W36	9	27"	1 3/4"	8"	229
W40	10	30"	2 1/4"	8"	254
W44	11	33"	2 1/4"	8"	278

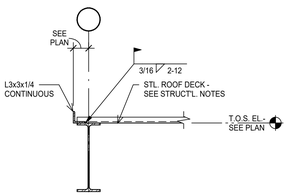




NOTES:

1. ALL BEAM REACTIONS ARE IN KIPS, AT STRENGTH LEVEL LOADS (FACTORED).
2. TABULATED CONNECTION CAPACITIES ARE BASED ON RIGHT ANGLE DOUBLE ANGLE CONNECTIONS, THE GRADES IN THE STRUCTURAL NOTES AND 70 KSI FILLER METAL.
3. HOLES IN ANGLES PARALLEL TO THE SUPPORTED BEAM SHALL HAVE HORIZONTAL SSL HOLES. HOLES IN BEAM, SUPPORTING MEMBER, AND ANGLES PERPENDICULAR TO SUPPORTED BEAMS SHALL HAVE STD. HOLES. REFERENCE AISC SPEC. J3.3 FOR HOLE SIZES.
4. THESE CAPACITIES ARE APPLICABLE FOR BEAMS WHICH ONLY HAVE VERTICAL (R=) REACTIONS AND MEET THE CONDITIONS PROVIDED IN THE DETAIL. DELEGATED DESIGNER SHALL PROVIDE CONNECTION CALCULATIONS FOR CONNECTION CONDITIONS THAT EXCEED THE LIMITATIONS OF THIS DETAIL. REFER TO "STRUCTURAL STEEL CONNECTIONS" IN THE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

12 TYPICAL DOUBLE ANGLE SHEAR CONNECTION DETAIL
NO SCALE



13 TYPICAL EXTERIOR BEAM PARALLEL TO JOISTS DETAIL
NO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE - DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

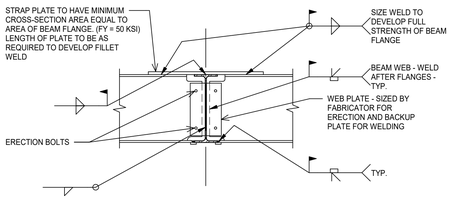
Project Number
2022.012
Issue Date
10/22/2025
Revised:

1	Date 1	Revision 1

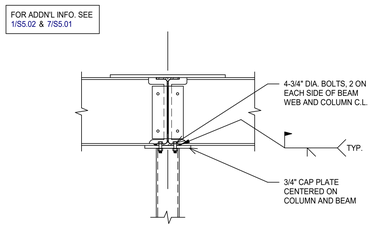
shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
P. BRADY BUCKLES
151149
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

Sheet Title
TYPICAL STEEL DETAILS

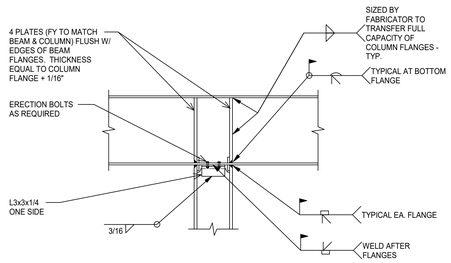
Sheet Number
S5.01



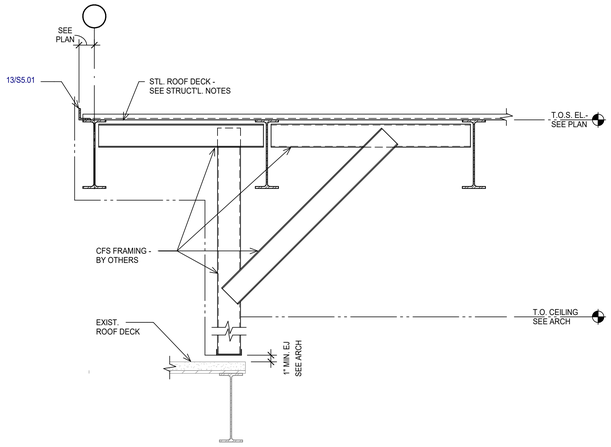
1 TYPICAL MOMENT CONNECTION DETAIL
NO SCALE



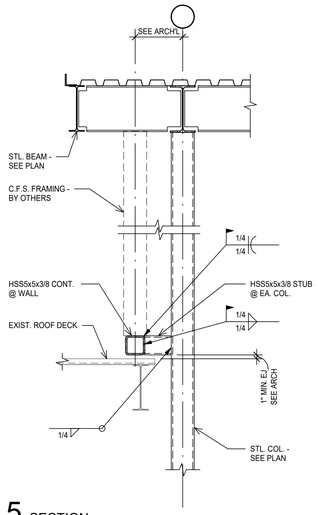
2 TYPICAL MOMENT CONNECTION OVER HSS COLUMN DETAIL
NO SCALE



3 BEAM CONTINUOUS OVER COLUMN TYPICAL MOMENT CONNECTION DETAIL
NO SCALE



4 SECTION
SCALE: 3/4" = 1'-0"



5 SECTION
SCALE: 3/4" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

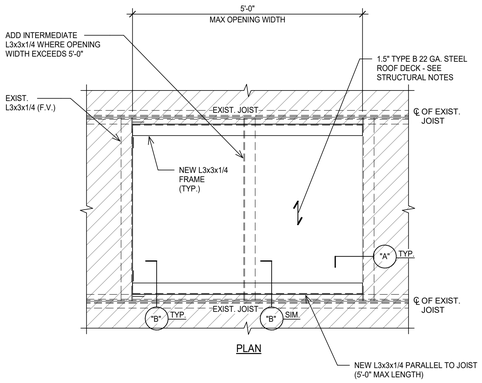
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

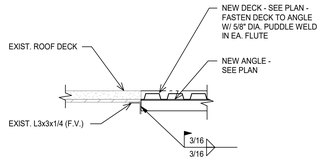
shaping the built environment
JQ INFRASTRUCTURE, LLC
301 T WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED PROFESSIONAL ENGINEER

Sheet Title
TYPICAL STEEL DETAILS

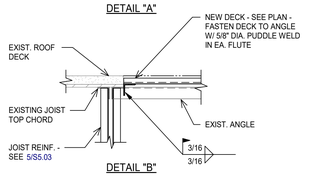
Sheet Number
S5.02



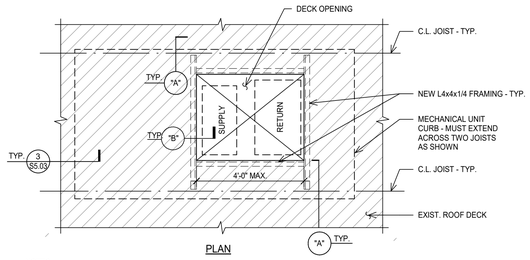
PLAN



DETAIL "A"



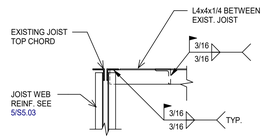
DETAIL "B"



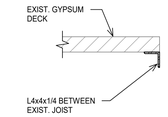
PLAN

NOTES:

1. COORDINATE OPENING SIZE WITH MECHANICAL UNIT MANUFACTURER.
2. WHERE SUPPLY AND RETURN DUCTS STRADDLE A JOIST, PROVIDE ANGLE FRAME SIMILAR TO THAT SHOWN ON EACH SIDE OF JOIST.
3. SEE 3/S5.03 FOR ROOFTOP UNIT CURB SUPPORT DETAIL
4. THIS DETAIL APPLIES ONLY TO THE CASE WHERE THE RTU CURBS EXTEND ACROSS TWO JOISTS.
5. PROVIDE SIMILAR L4x4x1/4 FRAMING AT NEW ROOF DRAINS - TYP.



SECTION "A"



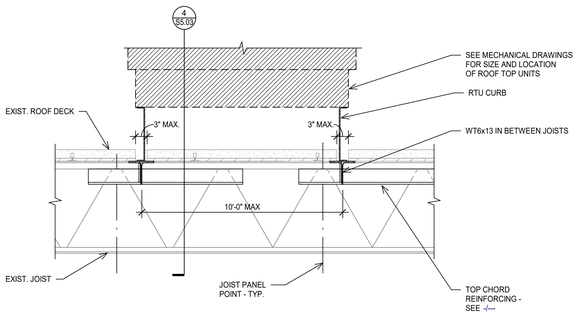
SECTION "B"

UNIT PRICES FOR RTU CURB SUPPORT STEEL:

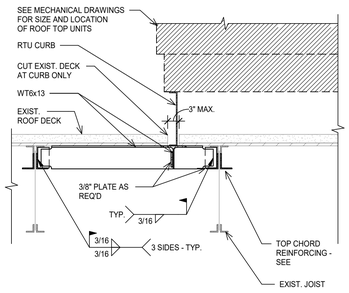
1. BASIS OF BIDS: BASE BIDS ON INDICATED NUMBER OF RTU'S BEING REPLACED (PER MEP DRAWINGS); TOTAL LINEAR FEET OF CURB PER RTU; AND EXISTING JOIST SPACING OF 6 FEET, WITH EACH RTU CROSSING TWO SPANS
2. BASIS FOR PAYMENT: PAYMENT FOR CURB SUPPORT FRAMING WILL BE MADE ON ACTUAL NET LENGTH OF STEEL FRAMING IN PLACE AND APPROVED. ACTUAL LENGTH, AND QUANTITY OF PIECES MAY VARY DEPENDING ON ACTUAL FIELD CONDITIONS. ADJUSTMENTS WILL BE MADE ON NET VARIATION OF TOTAL QUANTITIES, BASE ITEM 1 ABOVE.
3. UNIT PRICES SHALL INCLUDE LABOR AND MATERIALS INCLUDING OVERHEAD AND FEES FOR FABRICATION, DETAILING, AND INSTALLATION OF CURB SUPPORT FRAMING. ADJUSTMENTS TO THE CONTRACT SHALL BE BASED ON TOTAL LINEAR FEET GREATER THAN OR LESS THAN THE SUM OF BASE LENGTHS DETERMINED FROM ITEM 1 ABOVE.

CITY OF DALLAS STAMP

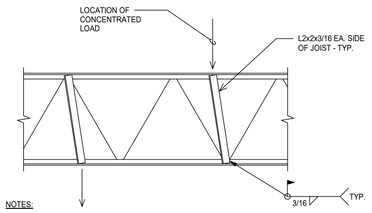
1 TYPICAL EXISTING ROOF OPENING INFILL DETAIL
NO SCALE



MECHANICAL UNIT SUPPORTED BETWEEN EXIST. JOISTS



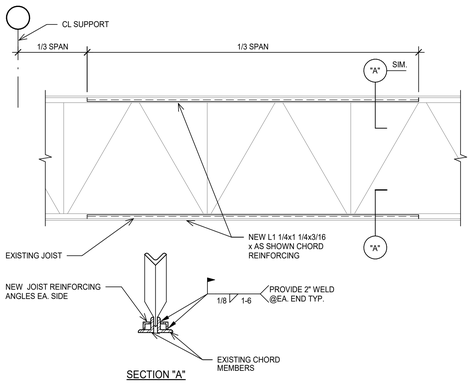
2 TYPICAL SCHEMATIC ROOFTOP MOUNTED MECHANICAL UNIT DUCT OPENING FRAMING DETAIL
NO SCALE



NOTES:

1. THIS DETAIL APPLIES WHEREVER A CONCENTRATED LOAD GREATER THAN 100 POUNDS OCCURS MORE THAN 4" AWAY FROM A JOIST TOP OR BOTTOM CHORD PANEL POINT. MAXIMUM LOAD TO BE APPLIED WITHOUT CONSULTATION WITH ENGINEER IS 250 POUNDS. DO NOT PLACE CONCENTRATED LOADS CLOSER THAN 4'-0" O.C.
2. ALL HANGERS OR ATTACHMENTS TO JOISTS SHALL BE PLACED CONCENTRIC WITH THE TOP AND BOTTOM CHORD(S) AND SHALL NOT ATTACH TO ONLY ONE ANGLE OF CHORD.

3 TYPICAL MECHANICAL UNIT CURB SUPPORT AT EXIST. JOIST DETAIL
NO SCALE

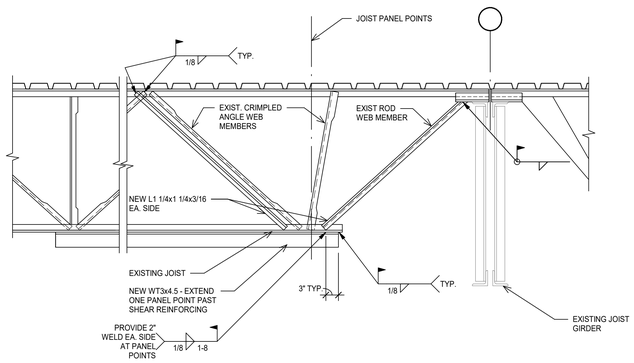


SECTION "A"

NOTES:

1. EXISTING STRUCTURAL DRAWINGS WERE NOT AVAILABLE TO JQ. JOIST REINFORCEMENT MAY BE REQUIRED UPON FINAL RTU LOCATIONS, FIELD INVESTIGATIONS AND ANALYSIS.
2. JOIST REINFORCING MUST BE INSTALLED PRIOR TO INSTALLATION OF ROOF SUPPORTED EQUIPMENT.

4 TYPICAL MECHANICAL UNIT CURB SUPPORT AT EXIST. JOIST DETAIL
NO SCALE



NOTES:

1. EXISTING STRUCTURAL DRAWINGS WERE NOT AVAILABLE TO JQ. JOIST REINFORCEMENT MAY BE REQUIRED UPON FINAL RTU LOCATIONS, FIELD INVESTIGATIONS AND ANALYSIS.
2. JOIST REINFORCING MUST BE INSTALLED PRIOR TO INSTALLATION OF ROOF SUPPORTED EQUIPMENT.
3. EXTEND SHEAR REINFORCING 1/3 OF JOIST SPAN FROM SUPPORT (MIN.)

5 TYPICAL JOIST CHORD REINFORCEMENT DETAIL
NO SCALE

6 K-SERIES JOIST CHORD REINFORCING DETAIL
NO SCALE

7 K-SERIES JOIST SHEAR REINFORCING DETAIL
NO SCALE

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE -
DALLAS, TEXAS
100% CONSTRUCTION DOCUMENTS

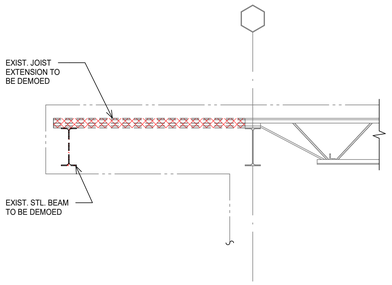
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

shaping the built environment
JQ Infrastructure
JQ INFRASTRUCTURE, LLC
301 7 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
TBPE FIRM F-7986
PROJECT NO: 4220247
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

Sheet Title
TYPICAL STEEL DETAILS

Sheet Number
S5.03



1 OVERHANG DEMOLITION DETAIL
SCALE: 3/4" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237

10750 CLADLEROCK DRIVE -
DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

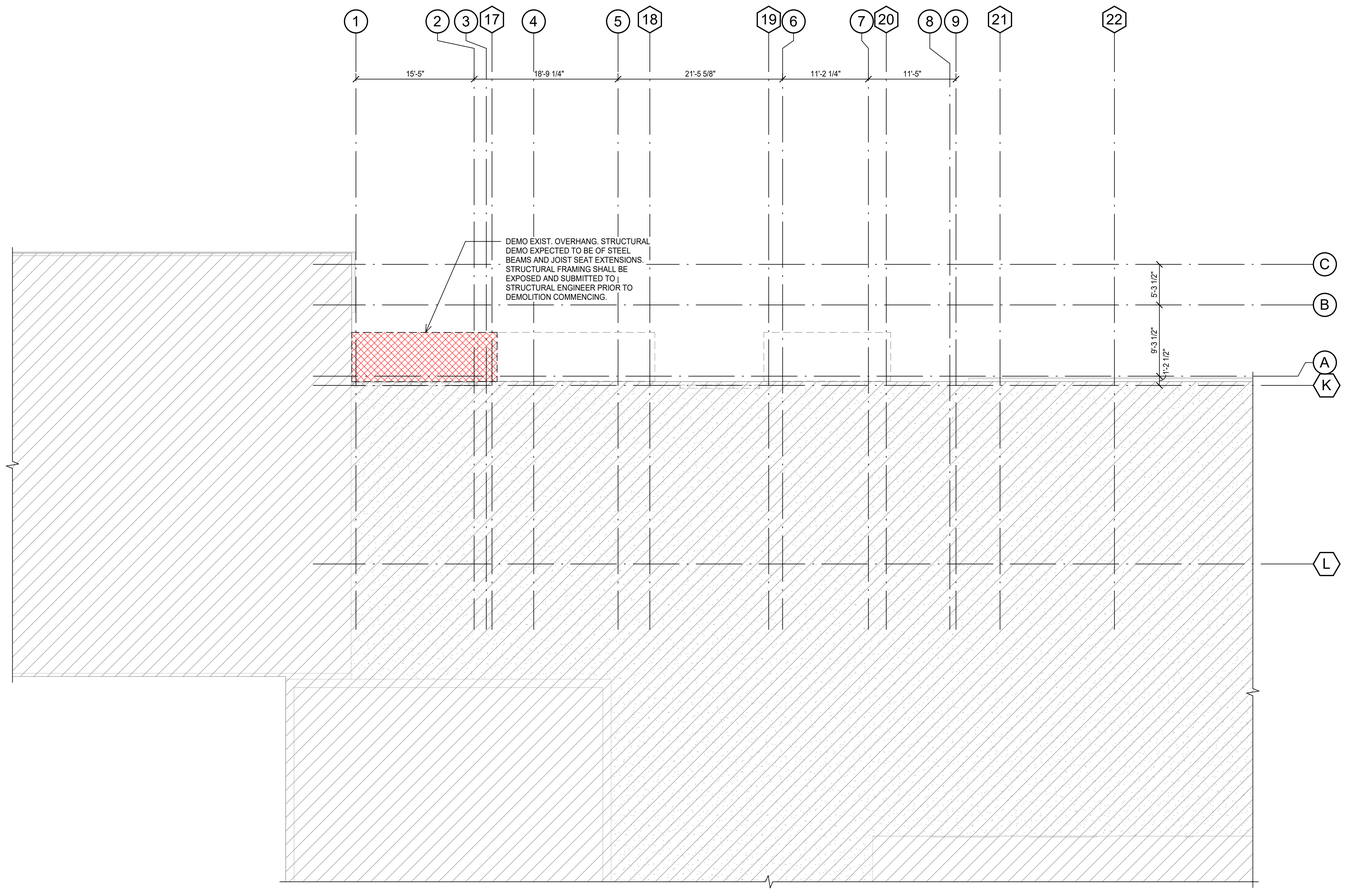
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400 FORT WORTH, TEXAS 76107
817.546.7200 JQENG.COM
PROJECT NO: 4220247 TBPE FIRM F-7986
STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

Sheet Title
TYPICAL STEEL DETAILS

Sheet Number
S5.04



north

1 ROOF DEMO PLAN - ENTRY
SCALE: 1/8" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DALLAS ISD -
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237

10750 CLADLEROCK DRIVE -
DALLAS, TEXAS

100% CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10/22/2025
Revised:

JQI HAS ATTEMPTED BY VISUAL OBSERVATION AND STUDY OF ORIGINAL CONSTRUCTION DOCUMENTS TO DETERMINE EXISTING DIMENSIONS, THE CONDITION OF VARIOUS STRUCTURAL ELEMENTS AND EXISTING CONDITIONS.

HOWEVER, AS SOME CONDITIONS CANNOT BE DETERMINED UNTIL AFTER DEMOLITION OF THE EXISTING BUILDING FINISHES, THE CONTRACTOR MUST CONSIDER AND ALLOW FOR THE FACT THAT DIMENSIONS, THE CONDITION OF STRUCTURAL ELEMENTS, AND DETAIL CONDITIONS MAY BE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

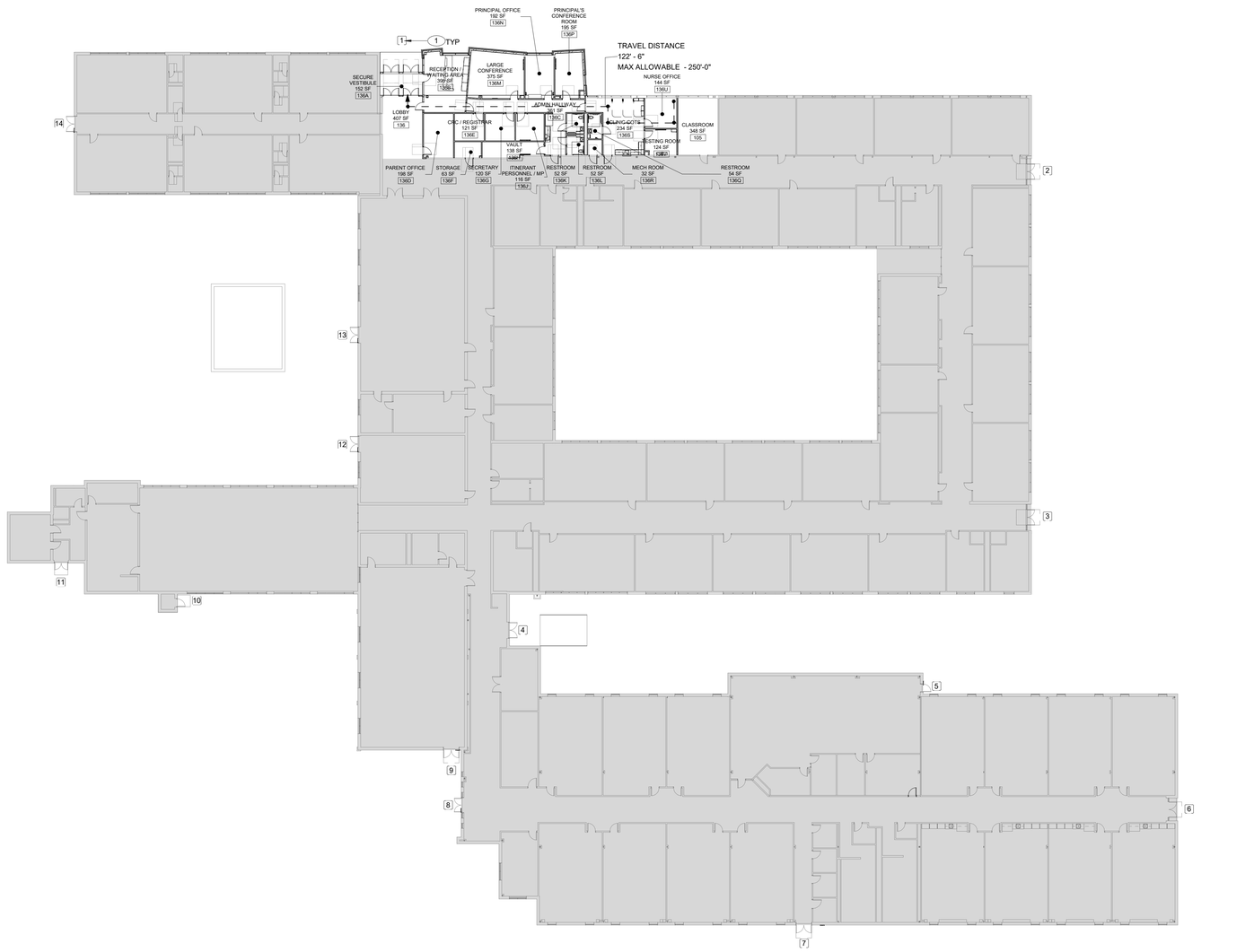
NOTIFY ENGINEER WHERE CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THESE DRAWINGS.

shaping the built environment
JQ INFRASTRUCTURE, LLC
3017 WEST 7TH STREET, SUITE 400
817.546.7200
FORT WORTH, TEXAS 76107
JQENG.COM
PROJECT NO: 4220247
TBPE FIRM F-7986

STATE OF TEXAS
P. BRADY BUCKLES
151149
LICENSED
PROFESSIONAL ENGINEER

Sheet Title
ROF DEMO PLAN - ENTRY

Sheet Number
SD2.03



1 CODE EGRESS PLAN
3/64" = 1'-0"

John W. Runyon Elementary School - Org 237
Code Review

ZONING CODE REVIEW	
Jurisdiction Having Authority:	City of Dallas
Zoning Classification:	R-7.5(A)
Zoning Overlays:	N/A
Is use permitted in this district:	PD 650
Lot Size:	NO MINIMUM
Buffer / Side Yard Requirements	
Front yard:	N/A
Right side yard:	N/A
Left side yard:	N/A
Rear side yard:	N/A
Maximum Height:	45'-0"
Maximum Stories:	2
Lot Coverage	
Max Lot Coverage:	Maximum lot coverage is 27%. Aboveground parking structures are included in lot coverage calculations; surface parking lots and underground parking structures are not.

BUILDING CODE REVIEW

Category	Information
APPLICABLE CODES	
Discipline:	Code: / Year:
Building	International Building Code w/Dallas amendments / 2021
Mechanical	International Mechanical Code w/Dallas amendments / 2021
Electrical	National Electrical Code w/ Dallas amendments / 2020
Plumbing	International Plumbing Code w/ Dallas amendments / 2021
Energy	International Energy Conservation Code w/ Dallas amendments / 2021
Fire Prevention	International Fire Code w/ Dallas amendments / 2021
Accessibilty	Texas Accessibility Standards / 2012
Storm	ICC 500 / 2020
PRIMARY OCCUPANCY:	Educational
SECONDARY OCCUPANCY:	Office (B), Assembly (A-3), Kitchen (A-2), Storage (S-2)
CONSTRUCTION TYPE (IBC Table 601):	Type 2-B
SPRINKLERED:	Yes
MAXIMUM ALLOWABLE BASIC FLOOR AREA:	Unlimited (504.17 - Dallas Amend.)
MAXIMUM ALLOWABLE HEIGHT:	3 stories (504.17 - Dallas Amend.)

EXISTING AUTOMATIC SPRINKLER SYSTEM						PROPOSED AUTOMATIC SPRINKLER SYSTEM					
Yes	X	No		Partial	N/A	Yes	X	No		Partial	N/A

FIRE PROTECTION REQUIRMENTS 601

Building Element	Required Rating	Comments
Primary Structural Frame	0	
Bearing Walls Exterior	0	
Bearing Walls Interior	0	
Non-bearing Walls exterior	0	
Non-bearing Walls exterior	0	
Floor Construction	0	
Roof Construction	0	

RENOVATION OCCUPANCY CALCULATIONS (Based on Program) IBC Table 1004.5

Function of Space	Number	Name	Occupancy Factor	Area	Calculated Load	Actual Occupancy Load
BUSINESS AREAS	136J	ITINERANT PERSONNEL / MP	150	116 SF	0.77019	1
BUSINESS AREAS	136G	SECRETARY	150	120 SF	0.802952	1
BUSINESS AREAS	136E	CRC / REGISTRAR	150	121 SF	0.808813	1
BUSINESS AREAS	136U	NURSE OFFICE	150	144 SF	0.960677	1
BUSINESS AREAS	136V	TESTING ROOM	150	124 SF	0.827924	1
BUSINESS AREAS	136T	CLINIC WAITING AREA	150	150 SF	1.002672	2
BUSINESS AREAS	136S	CLINIC COTS	150	234 SF	1.563218	2
BUSINESS AREAS	136D	PARENT OFFICE	150	198 SF	1.319433	2
8				1208 SF	8.055878	11
ACCESORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	136R	MECH ROOM	300	32 SF	0.108291	1
ACCESORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	136H	VAULT	300	138 SF	0.459644	1
ACCESORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	136F	STORAGE	300	63 SF	0.211281	1
3				234 SF	0.779216	3
Grand total: 11				1442 SF	8.835094	14

EXPANSION OCCUPANCY CALCULATIONS (Based on Program) IBC Table 1004.5

Function of Space	Number	Name	Occupancy Factor	Area	Calculated Load	Actual Occupancy Load
ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES AND CHAIRS)	136M	LARGE CONFERENCE	15	375 SF	24.984288	25
ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES AND CHAIRS)	136P	PRINCIPAL'S CONFERENCE ROOM	15	195 SF	12.988124	13
2				570 SF	37.972412	38
BUSINESS AREAS	136B	RECEPTION / WAITING AREA	150	395 SF	2.631669	3
BUSINESS AREAS	136N	PRINCIPAL OFFICE	150	192 SF	1.280194	2
2				587 SF	3.911862	5
Grand total: 4				1156 SF	41.884275	43

MEANS OF EGRESS - IBC CHAPTER 10

MINIMUM NUMBER OF REQUIRED EXITS (1006.2.1.1):	2 Exit required / 2 provided
EXIT AND EXIT ACCESS DOORWAY CONFIGURATION (IBC SECTION 1007)	
Minimum allowable distance:	1/3 the diagonal distance
EXIT ACCESS TRAVEL DISTANCE (IBC Table 1017.2)	
Maximum travel distance allowed:	250'
EGRESS WIDTH AND RATING (IBC Table 1017.2)	
Inches per occupant for stairways (SECTION 1005.3.1):	N/A
Minimum stairway width required:	N/A
Stairway width provided in space:	N/A
CORRIDORS	
Inches per occupant for other egress components (SECTION 1005.3.2):	0.2"
Minimum corridor width required:	1' 0 3/16"
Minimum egress component width required (SECTION 1020.3):	72"
Corridor with provided in space:	72"

SPECIAL INSPECTIONS (IBC Section 1705)

Inspection of Fabricators	Yes
Steel Construction	Yes
Concrete Construction	Yes
Masonry Construction	Yes
Wood Construction	
Soils	Yes
Pile Foundations	
Pier Foundations	Yes
Wall Panels and Veneers	
Sprayed Fire-Resistant Materials	
Exterior Insulation & Finish Systems - EIFS	
Special Cases - Unusual in Nature	
Smoke Control Systems	

PLUMBING REQUIREMENTS (IBC Table 2902.1)

Water Closets		Lavatories		Drinking Fountains	Other
Male	Female	Male	Female		
1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 100	

Number of female occupants	Number of male occupants	Exceptions
26	26	

FIXTURE COUNT (IBC Table 2902.1)

Water Closets		Lavatories		
WC Male	WC Female	LV Male	LV Female	Drinking Fountains
2	2	1	1	1

PLUMBING FIXTURES PROVIDED

Total Occupancy	WC Female	WC Male	WC Unisex	Urinals (at 67%)	LV Female	LV Male	LV Unisex	Drinking Fountain
52	1	1	1	0	1	1	1	0

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PROVIDE EXTERIOR DOOR IDENTIFICATION SIGNAGE AS DELINEATED. 9" LETTER HEIGHT WITH MINIMUM 1" STROKE IN CONTRASTING BACKGROUND. INTERIOR SIGNS TO BE PLACED ON THE HINGE SIDE OF THE DOOR AT 1'-0" HEIGHT.

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M. CAMERON CACO 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

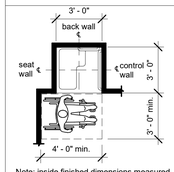
© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
CODE & EGRESS

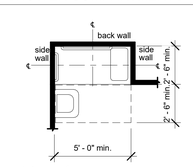
Sheet Number
A0.05

SHOWER COMPARTMENTS



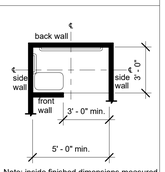
Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.1
Transfer Shower Compartment



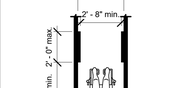
Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.2
Roll-In Shower Compartment



Note: inside finished dimensions measured at the center points of opposing sides

Figure 608.2.3
Alternate Roll-In Shower Compartment



(a) without seat

(b) with seat

Figure 608.3.2
Grab Bars for Standard Roll-In Type Showers

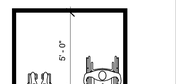


Figure 608.3.3
Grab Bars for Alternate Roll-In Type Showers

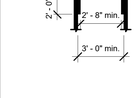


Figure 608.3.1
Grab Bars for Transfer Showers

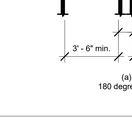
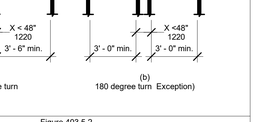
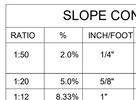


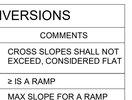
Figure 608.5.1
Transfer Shower Control Location



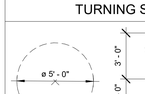
(a) with seat (elevation) (b) with seat (elevation)



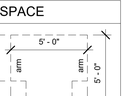
(a) without seat



(b) with seat



(c) without seat (plan)

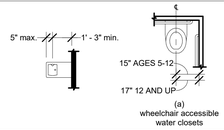


(d) with seat (plan)

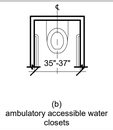
Figure 608.5.2
Standard Roll-In Type Shower Compartment Control Location

Figure 608.5.3
Alternate Roll-In Type Shower Compartment Control Location

DRINKING FOUNTAINS, TOILET COMPARTMENTS, AND URINALS



(a) wheelchair accessible water closets



(b) ambulatory accessible water closets

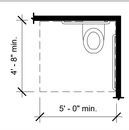


Figure 602.5
Drinking Fountain Spout Location



Figure 604.2
Water Closet Location

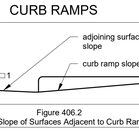


Figure 604.3.1
Size of Clearance at Water Closets

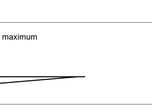
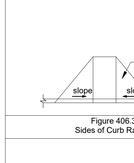


Figure 604.5.1
Side Wall Grab Bar at Water Closets



(a) adult wall hung water closet (b) adult floor mounted water closet and children's water closet

Figure 604.5.2
Rear Wall Grab Bar at Water Closets

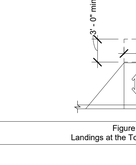


Figure 604.7
Dispenser Outlet Location

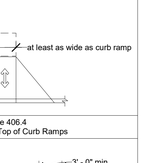
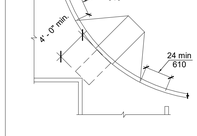
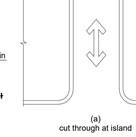


Figure 604.8.1.1
Size Accessible Toilet Compartment



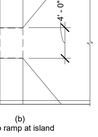
(a) elevation adult (b) elevation children

Figure 604.8.1.2
Accessible Toilet Compartment Doors



(c) plan

Figure 604.8.2
Ambulatory Toilet Compartment

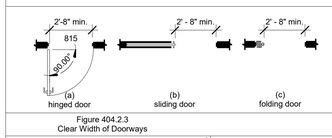


(a) wall hung type (b) stall type

Figure 604.8.1.4
Toilet Compartment Toe Clearance

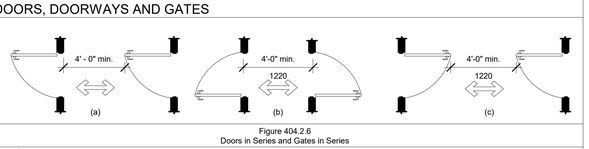
Figure 605.2
Height and Depth of Urinals

DOORS, DOORWAYS AND GATES



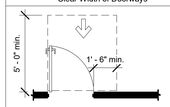
(a) hinged door (b) sliding door (c) folding door

Figure 404.2.3
Clear Width of Doorways

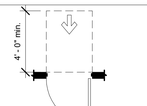


(a) (b) (c)

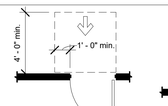
Figure 404.2.6
Doors in Series and Gates in Series



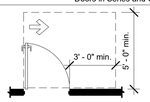
(a) front approach, pull side



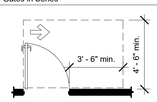
(b) front approach, push side



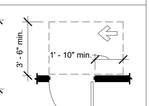
(c) front approach, push side, door provided with both closer and latch



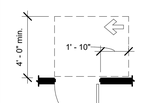
(d) hinge approach, pull side



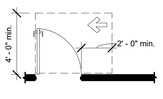
(e) hinge approach, pull side



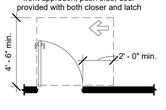
(f) hinge approach, push side



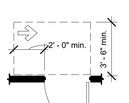
(g) hinge approach, push side, door provided with both closer and latch



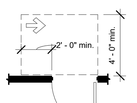
(h) latch approach, pull side



(i) latch approach, pull side, door provided with closer

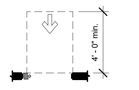


(j) latch approach, push side

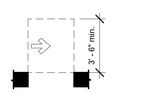


(k) latch approach, push side, door provided with closer

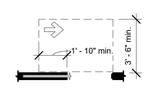
Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates



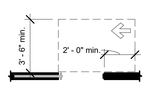
(a) front approach



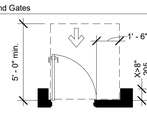
(b) side approach



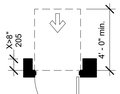
(c) pocket or hinge approach



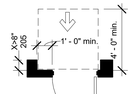
(d) stop or latch approach



(a) pull side



(b) push side



(c) push side, door provided with both closer and latch

Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors

Figure 404.2.4.2
Maneuvering Clearance at Doorways Without Doors or Gates

Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors

Figure 404.2.4.2
Maneuvering Clearance at Sliding and Folding Doors

Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates

Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates

Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates

CITY OF DALLAS STAMP

PARKING SPACES

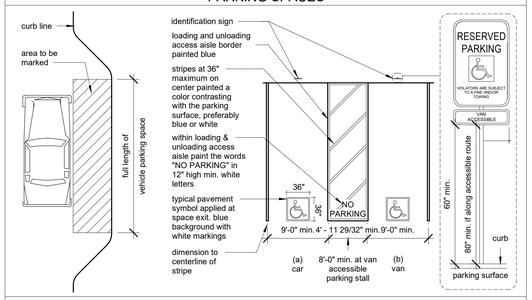
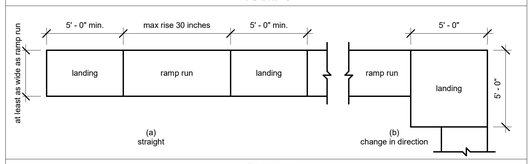


Figure 503.3
Passenger Loading Zone Access Aisle

Figure 502.2/.3
Vehicle Parking Spaces and Access Aisle

RAMPS



(a) straight (b) change in direction

Figure 405.7
Ramp Landings

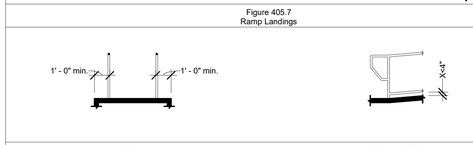


Figure 405.9.1
Extended Floor or Ground Surface Edge Protection

Figure 405.9.2
Curb or Barrier Edge Protection

PROTRUDING OBJECTS

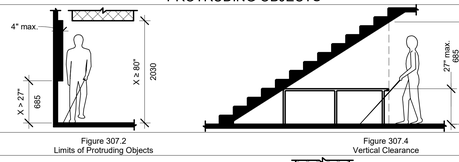


Figure 307.2
Limits of Protruding Objects

Figure 307.4
Vertical Clearance

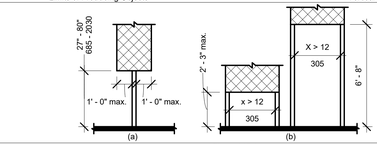


Figure 307.3
Post-Mounted Protruding Objects

REACH RANGES

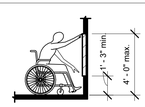
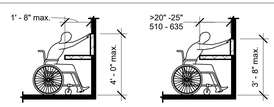


Figure 308.2.1
Unobstructed Forward Reach



(a) (b)

Figure 308.2.2
Obstructed High Forward Reach

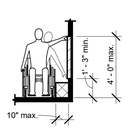
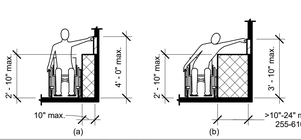


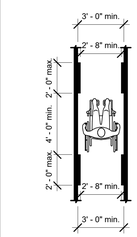
Figure 308.3.1
Unobstructed Side Reach



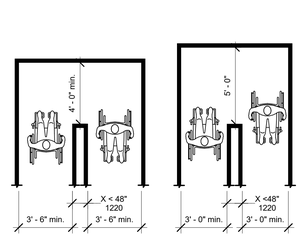
(a) (b)

Figure 308.3.2
Obstructed High Side Reach

WALKING SURFACES



(a) 180 degree turn



(b) 180 degree turn Exception)

Figure 403.5.1
Clear Width of an Accessible Route

Figure 403.5.2
Clear Width at Turn

CURB RAMPS

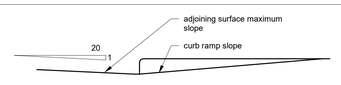


Figure 406.2
Counter Slope of Surfaces Adjacent to Curb Ramps

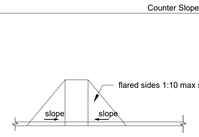
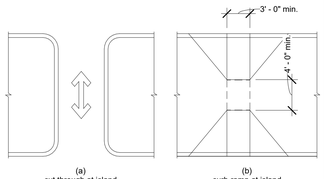


Figure 406.3
Sides of Curb Ramps

Figure 406.4
Landings at the Top of Curb Ramps

(a) cut through at island

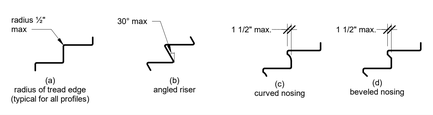


(b) curb ramp at island

Figure 406.6
Diagonal or Corner Type Curb Ramps

Figure 406.7
Islands in Crossings

STAIRS AND HANDRAILS



(a) radius of tread edge (typical for all profiles) (b) angled riser (c) curved nosing (d) beveled nosing

Figure 504.5
Stair Nosings

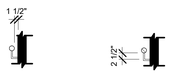
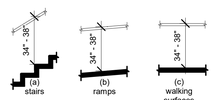


Figure 505.5
Handrail Clearance

Figure 505.6
Horizontal Projections Below Gripping Surface



(a) stairs (b) ramps (c) walking surfaces

Figure 505.4
Handrail Height

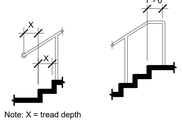


Figure 505.10.3
Bottom Handrail Extension



Figure 505.10.2
Top Handrail Extension

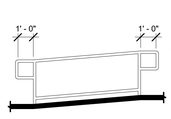


Figure 505.10.1
Handrail Extensions at Ramps

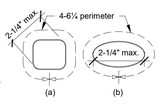


Figure 505.7.2
Handrail Non-Circular Cross Section

CLEAR FLOOR SPACE

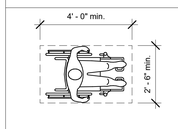


Figure 305.3
Clear Floor or Ground Space

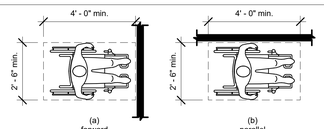


Figure 305.5
Position of Clear Floor or Ground Space

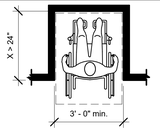


Figure 305.7.1
Maneuvering Clearance in an Alcove, Forward Approach

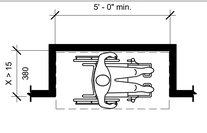
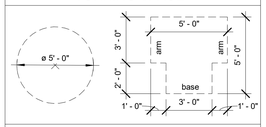


Figure 305.7.2
Maneuvering Clearance in an Alcove, Parallel Approach

SLOPE CONVERSIONS

RATIO	%	INCH/FOOT	COMMENTS
1:50	2.0%	1/4"	CROSS SLOPES SHALL NOT EXCEED, CONSIDERED FLAT
1:20	5.0%	5/8"	≥ IS A RAMP
1:12	8.33%	1"	MAX SLOPE FOR A RAMP
1:10	10.0%	1-1/4"	MAX SLOPE FOR FLARED SIDES OF RAMP
1:8	12.5%	1-1/2"	MAX SLOPE ALLOWED W/ VARIANCE

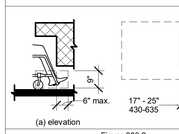
TURNING SPACE



304.3.1
Circular Space

Figure 304.3.2
T-Shaped Turning Space

KNEE AND TOE CLEARANCES



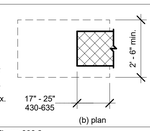
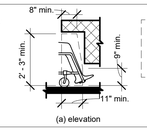


Figure 306.2
Toe Clearance



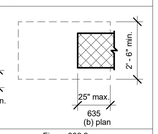
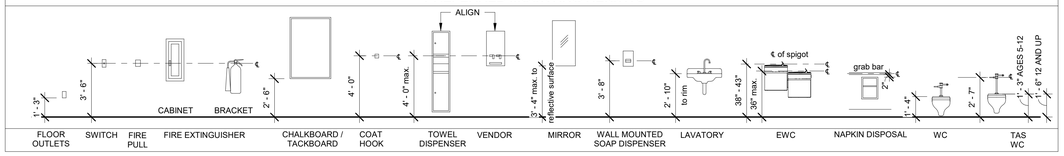


Figure 306.3
Knee Clearance

PREFERRED MOUNTING HEIGHTS



SIGNAGE

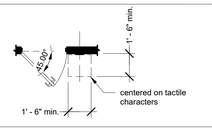


Figure 703.4.2
Location of Tactile Signs at Doors

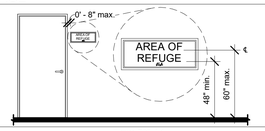


Figure 703.4.1
Height of Tactile Characters Above Floor or Ground

CHANGES IN LEVEL

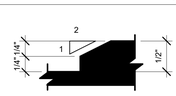


Figure 303.3
Beveled Change in Level



Figure 303.2
Vertical Change in Level

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DATE:10.22.2025
EXP: 12/2025

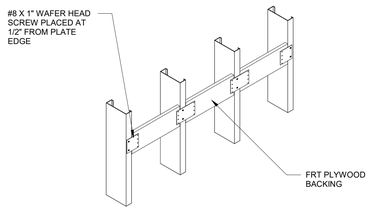
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

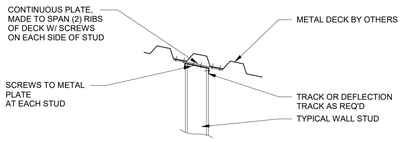
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
TAS STANDARDS

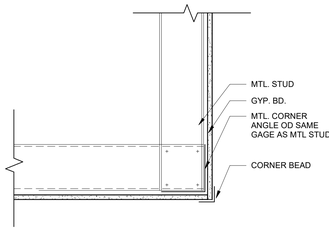
Sheet Number
A0.06



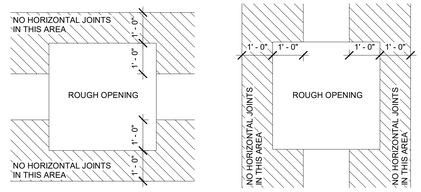
20 WOOD BACKING
1/2" = 1'-0"



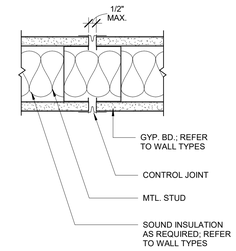
19 CONNECTION TO METAL DECK 2
1/2" = 1'-0"



18 SOFFIT/UNSUPPORTED CORNER FRAMING DETAIL
1 1/2" = 1'-0"

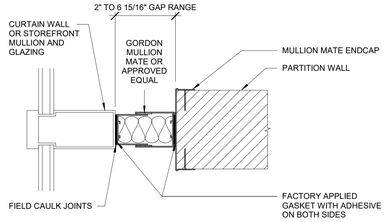


17 TYP JOINT LOCATIONS AT OPENINGS
1/2" = 1'-0"

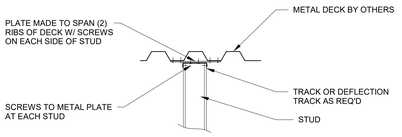


16 GYP. BD. CONTROL JOINT
3" = 1'-0"

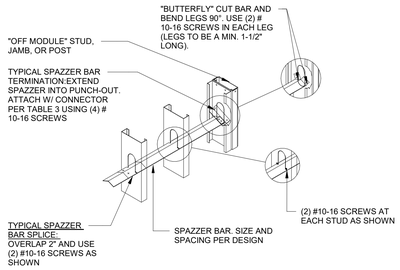
CITY OF DALLAS STAMP



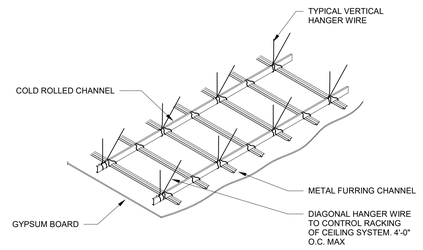
15 DRYWALL MOLDING END CLOSURE AT STOREFRONT
3" = 1'-0"



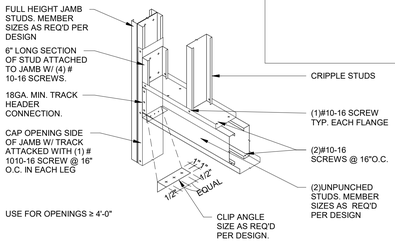
14 CONNECTION TO METAL DECK
1/2" = 1'-0"



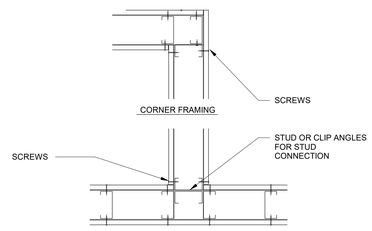
13 LATERAL BRACING DETAIL
1/2" = 1'-0"



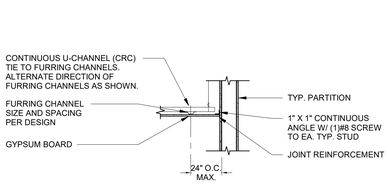
12 TYPICAL INTERIOR SUSPENDED CEILING
1/2" = 1'-0"



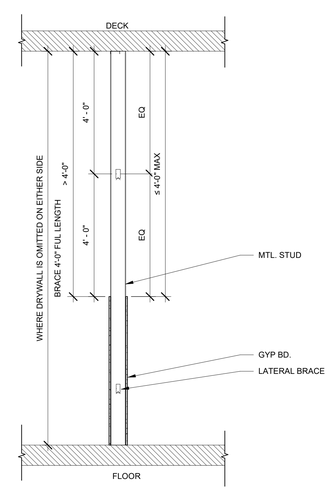
11 BOX HEADER CONNECTION
1/2" = 1'-0"



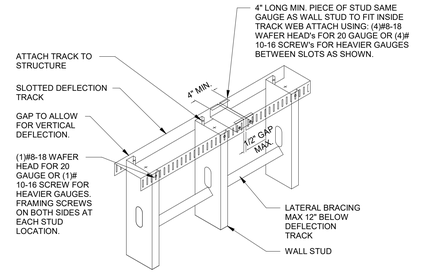
10 WALL FRAMING
1/2" = 1'-0"



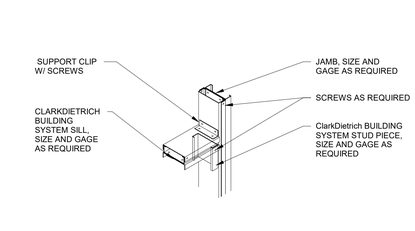
9 SUSPENDED CEILING SECTION
1/2" = 1'-0"



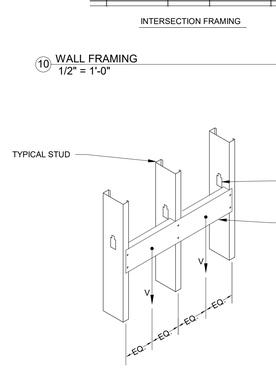
4 INTERIOR STUD BRACING
1/2" = 1'-0"



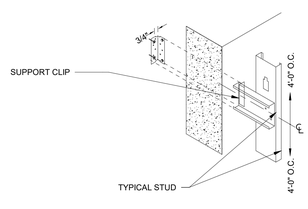
8 MAX TRACK SLOTTED DEFLECTION TRACK
1/2" = 1'-0"



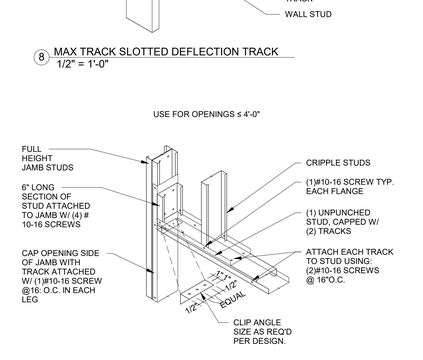
7 SILL DETAIL 7
1/2" = 1'-0"



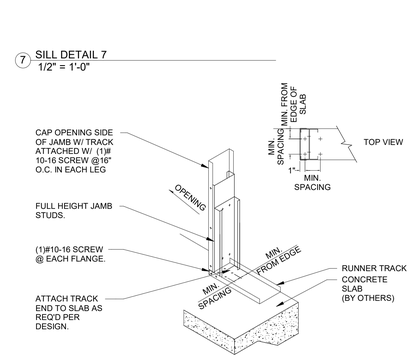
6 BACKING PLATE
1/2" = 1'-0"



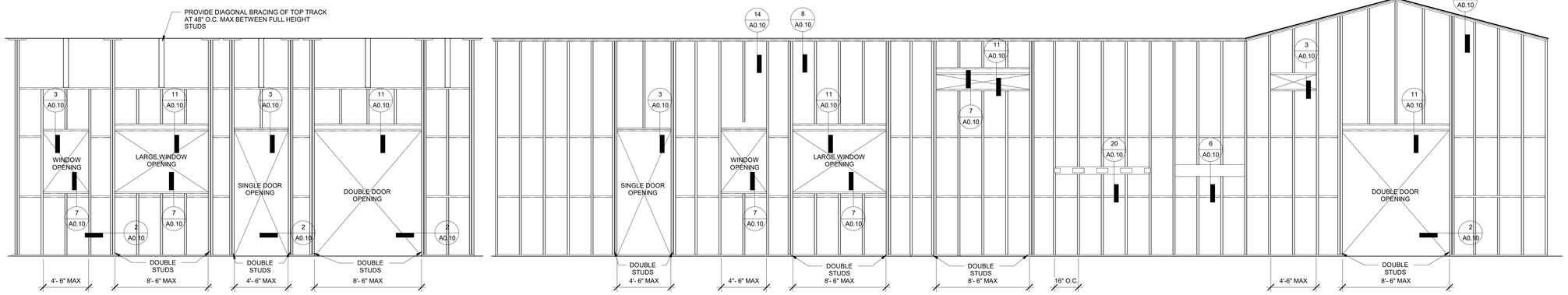
5 FURRING WALL CONNECTION
1/2" = 1'-0"



3 LAY-IN HEADER CONNECTIONS
1/2" = 1'-0"



2 DOOR JAMB ANCHORAGE
1/2" = 1'-0"



1 FRAMING DIAGRAM (FOR DIAGRAMMATIC PURPOSES ONLY)
3/8" = 1'-0"

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.K. CAMPBELL 23761 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

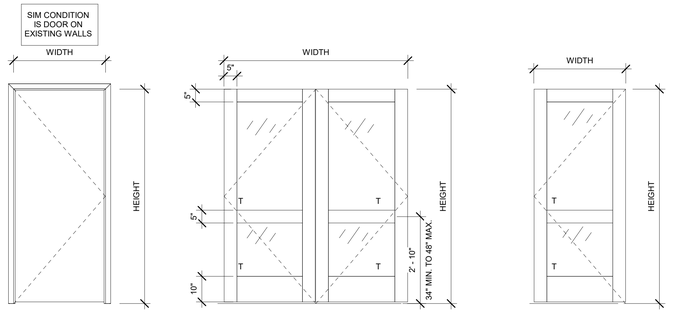
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FRAMING DTLS

Sheet Number
A0.10

DOOR SCHEDULE

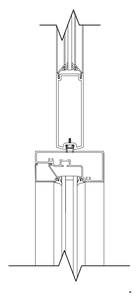
Door	Door Type Mark	Head	Jamb	Sill	Width	Height	Door Material Type	Frame Type	Frame Head Width	Frame Jamb Width	Frame Depth	Hardware Set	Fire Rating	Access Control	Comments
136.1	TYPE 2	9/A0.11	12/A0.11	5/A0.11	6' - 0"	7' - 0"	AL	AL	0' - 2"	0' - 2"	0' - 7 1/2"	CR710AMV		Yes	
136.2	TYPE 2	9/A0.11	12/A0.11	5/A0.11	6' - 0"	7' - 0"	AL	AL	0' - 2"	0' - 2"	0' - 7 1/2"	D710AMV		Yes	
136A.1	TYPE 2	10/A0.11	11/A0.11	6/A0.11	6' - 0"	7' - 0"	AL	AL	0' - 2"	0' - 2"	0' - 4 1/2"	C714AM		Yes	
136A.2	TYPE 2	10/A0.11	11/A0.11	6/A0.11	6' - 0"	7' - 0"	AL	AL	0' - 2"	0' - 2"	0' - 4 1/2"	DR714AM		Yes	
136B.1	TYPE 1	10/A0.11	11/A0.11	5/A0.11	3' - 0"	7' - 0"	AL	AL	0' - 2"	0' - 2"	0' - 7 1/2"	CR207AC		Yes	
136B.2	TYPE 1	7/A0.11	11/A0.11	5/A0.11	3' - 0"	7' - 0"	AL	AL	0' - 2"	0' - 2"	0' - 7 1/2"	CR201AC		Yes	
136C.1	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	C201		Yes	
136C.2	TYPE 3	8/A0.11 SIM.	8/A0.11 SIM.	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	C207		Yes	
136D	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	547		No	
136E	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103		No	
136F	TYPE 3	8/A0.11 SIM.	8/A0.11 SIM.	--	3' - 0"	7' - 0"	HM	HM	0' - 2"	0' - 2"	0' - 5 3/4"	201C		No	
136G	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103		Yes	
136H	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	C201		Yes	
136J	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103		No	
136K	TYPE 1A	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	347		No	
136L	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	347		No	
136M	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103S		No	
136N	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103S		No	
136P	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103S		No	
136Q	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	347		No	
136R	TYPE 3	8/A0.11 SIM.	8/A0.11 SIM.	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	201C		No	
136S	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	C201		Yes	
136T	TYPE 3	8/A0.11 SIM.	8/A0.11 SIM.	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	547		No	
136U	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	103		No	
136V	TYPE 3	8/A0.11	8/A0.11	--	3' - 0"	7' - 0"	WD	HM	0' - 2"	0' - 2"	0' - 5 3/4"	541		No	



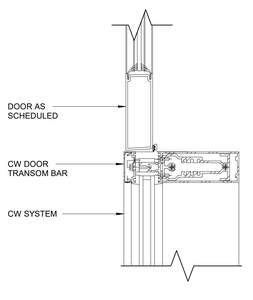
DOOR TYPE 3
WD DOOR
HM FRAME

DOOR TYPE 2
STOREFRONT

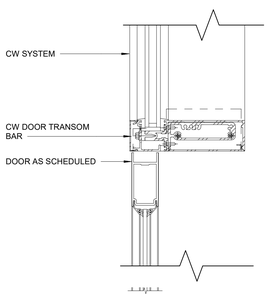
DOOR TYPE 1
STOREFRONT



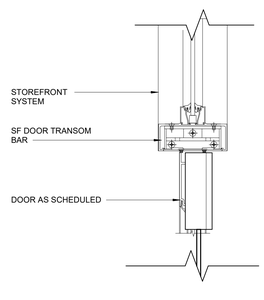
12 INT SF DOOR JAMB
3" = 1'-0"



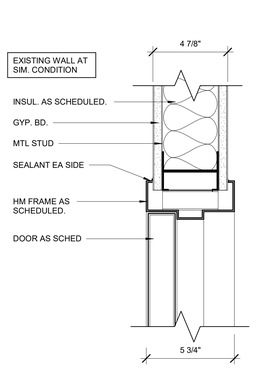
11 EXT/INT CW DOOR JAMB
3" = 1'-0"



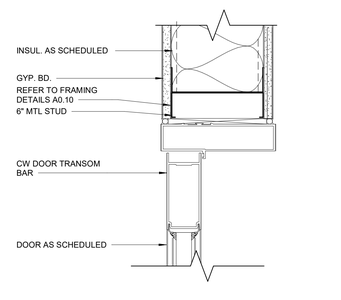
10 EXT/INT CW HEAD W TRANSOM
3" = 1'-0"



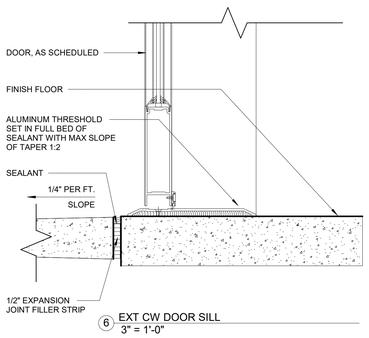
9 INT SF DOOR HEAD W TRANSOM
3" = 1'-0"



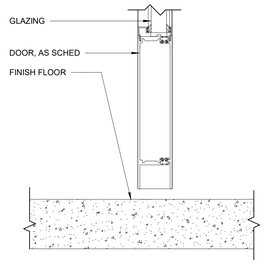
8 HM JAMB/HEAD AT MTL STUD WALL
3" = 1'-0"



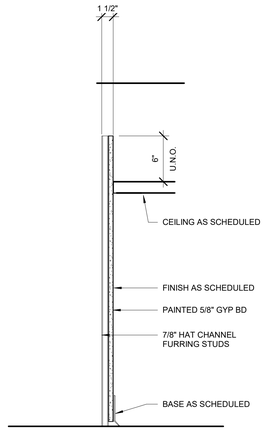
7 CW INT. DOOR HEAD
3" = 1'-0"



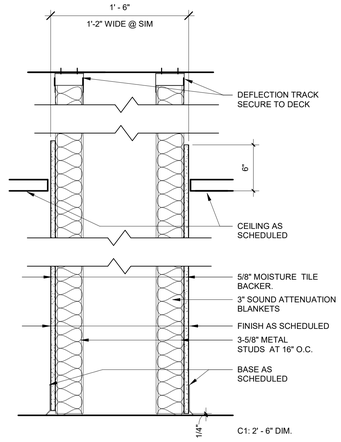
6 EXT CW DOOR SILL
3" = 1'-0"



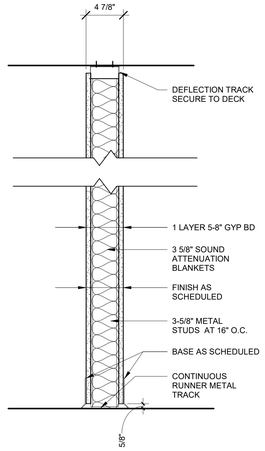
5 INT SF/CW DOOR SILL
3" = 1'-0"



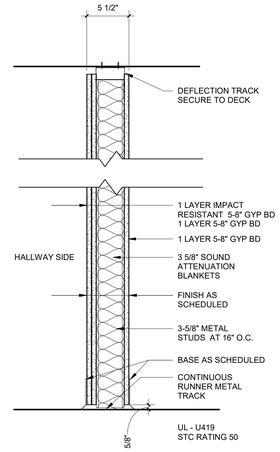
4 WALL TYPE D
1 1/2" = 1'-0"



3 WALL TYPE C - PLUMBING CHASE
1 1/2" = 1'-0"



2 WALL TYPE B
1 1/2" = 1'-0"



1 WALL TYPE A
1 1/2" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. ALL FRAMING PER WALL FRAMING DETAILS - U.N.O.
2. PROVIDE CONTROL JOINTS IN GYP. BD. AT MAXIMUM 30'-0" OR AS REQUIRED BY MANUFACTURER OR LOCAL REGULATIONS, WHICHEVER IS MORE STRINGENT. LOCATE CONTROL JOINTS TO ALLOW MAXIMUM UNINTERRUPTED LENGTHS OF GYP. BD. WHERE POSSIBLE LOCATE JOINTS ON HINGE SIDE OF DOOR FRAMES.
3. LOCATE GYPSUM BOARD 5/8" OFF FLOOR AT NON-RATED WALLS.
4. PROVIDE 5/8" GLASS MAT FACED GYP. BD. BACKER AT ALL WET WALL LOCATIONS OR WHERE SCHEDULED FINISH MATERIAL IS FRP OR TILE.
5. ALL IN WALL BLOCKING TO BE NON-COMBUSTIBLE OR FRT WOOD/PLYWOOD.
6. PROVIDE MOISTURE BARRIER AT WET LOCATIONS (KITCHENS AND BATHROOMS) EXTEND MOISTURE BARRIER 12" UP WALL. PROVIDE PREFORMED COVE TRANSITION FOR ELASTOMERIC COATING.
7. COMPLY WITH REQUIREMENTS OF DESIGNATED UL ASSEMBLY LISTED IN FIRE RESISTANT DIRECTORY WHEN FIRE RATED PARTITIONS INTERSECT WITH NON RATED PARTITIONS, CARRY FIRE RATED ASSEMBLIES THROUGH NON-RATED ASSEMBLY. DO NOT ALLOW THE RATED ASSEMBLY TO BE COMPROMISED.
8. CUTOUTS FOR ELECTRICAL DEVICES ON OPPOSITE SIDES OF PARTITION IN SAME STUD SPACE, WITHIN 24" NOT ALLOWED UNLESS ALL OPENING PROTECTIVE MATERIALS ARE USED PRIOR TO WALL CLOSURES.
9. FIRESTOPPING AND FIRE SAFING: PROVIDE UL LISTED PENETRATION AND JOINT SYSTEMS AT PENETRATIONS AND TERMINATIONS AT ALL RATED ASSEMBLIES
10. PROVIDE DEFLECTION TRACK AT HEAD OF DRYWALL PARTITIONS WHICH EXTEND TO OR ARE BRACED TO DECK OR OTHER STRUCTURAL ELEMENT. CUT GYPSUM BOARD SHORT TO ALLOW FOR DEFLECTION.
11. WALLS AT PLUMBING PENETRATIONS: PROVIDE NEXT LARGER SIZED STUD SP GAGE THAN NORMAL IN ADDITION TO THE SPACING REQUIRED FOR THE LESSOR GAGE STUD.
12. PROVIDE HORIZONTAL BRACING BETWEEN CHASE STUDS PER MANUFACTURERS RECOMMENDATION, BUT IN NO CASE LESS THAN 4'-0" O.C. VERTICALLY AND HORIZONTALLY.
13. MECHANICAL CHASE PARTITIONS: USE SEALANTS AT ALL WALLS FORMING CHASES USED FOR AIR TRANSFER MAINTAIN AIR TIGHTNESS OF THE CHASE.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT R.E. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

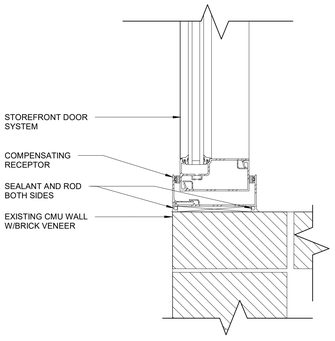
© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

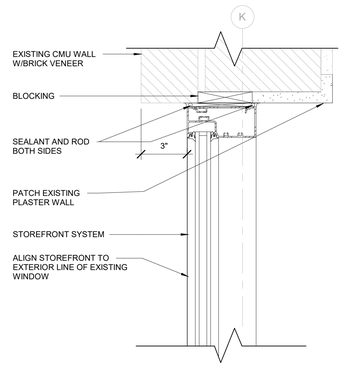
Sheet Title
WALL, DR, WNDW

Sheet Number
A0.11

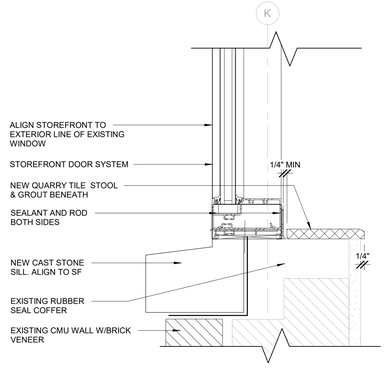
WINDOW & STOREFRONT TYPES



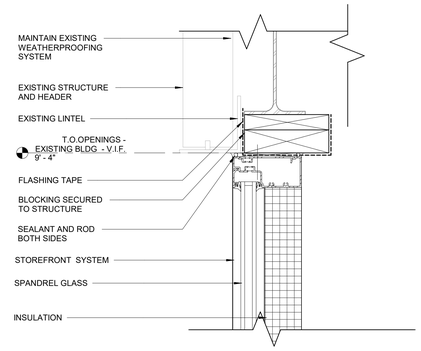
4 STOREFRONT JAMB AT EXPANSION JOINT
3" = 1'-0"



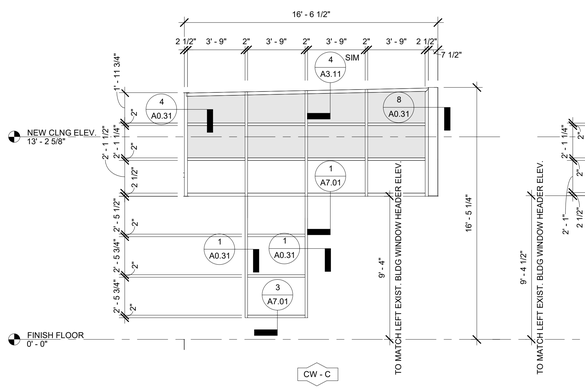
3 STOREFRONT JAMB
3" = 1'-0"



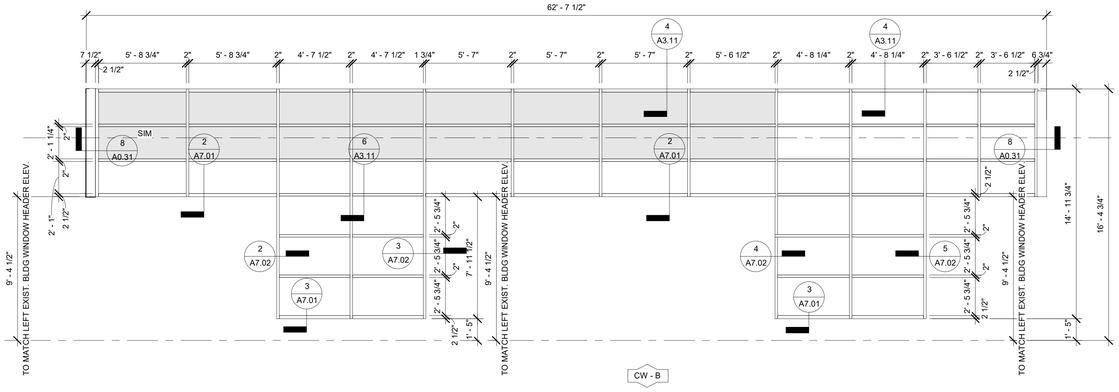
2 STOREFRONT SILL
3" = 1'-0"



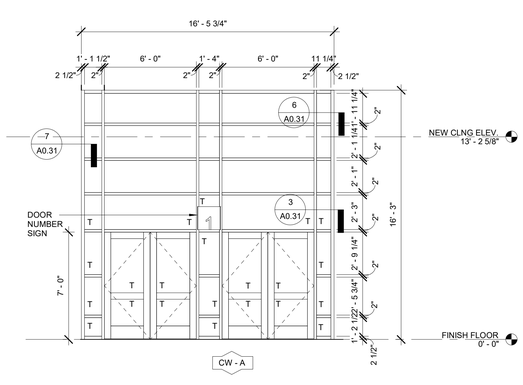
1 STOREFRONT HEAD
3" = 1'-0"



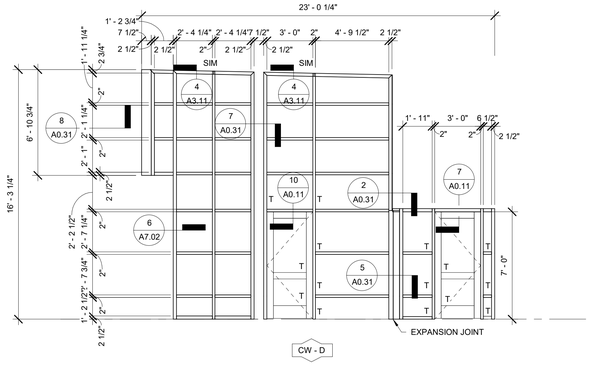
CW - C



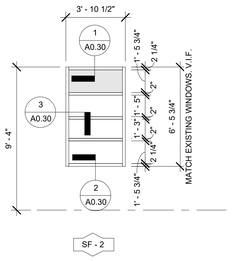
CW - B



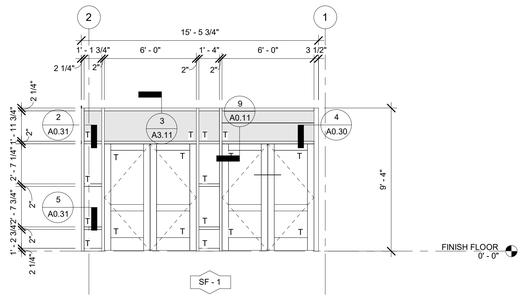
CW - A



CW - D



SF - 2



SF - 1

CITY OF DALLAS STAMP

NOTE: REFER TO EXTERIOR ELEVATIONS A5.00 FOR SECURITY WINDOW SCREEN LOCATIONS

LEGEND

SPANDREL GLASS

CLEAR GLASS

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.E. CAMPBELL 23701 STATE OF TEXAS

DATE: 10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
SF DETAILS

Sheet Number
A0.30

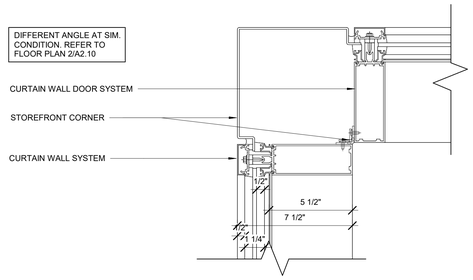
CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

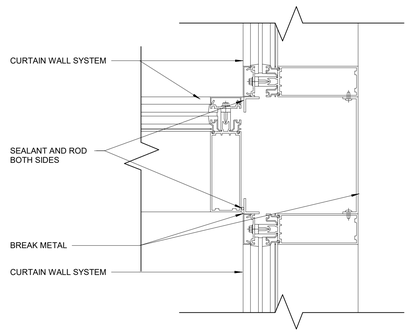
REGISTERED ARCHITECT M.C. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

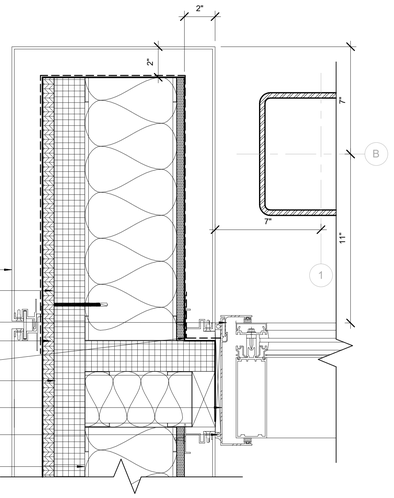
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS



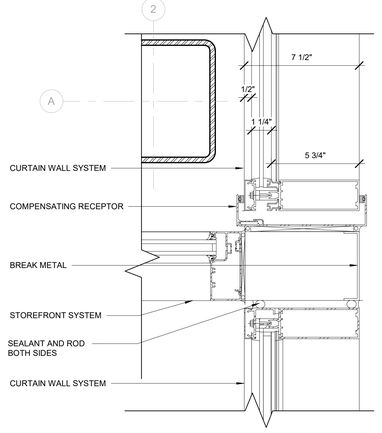
8 CURTAIN WALL CORNER DETAIL 2
3" = 1'-0"



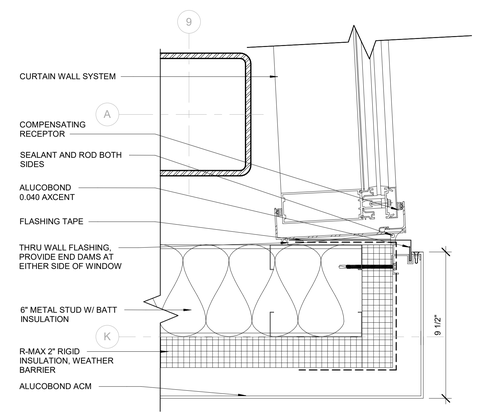
7 CURTAIN WALL CORNER DETAIL 1
3" = 1'-0"



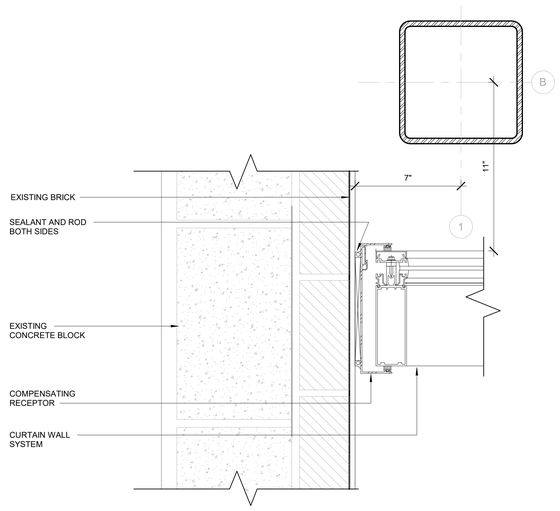
6 CURTAIN WALL JAMB AT HIGH NEW WALL
3" = 1'-0"



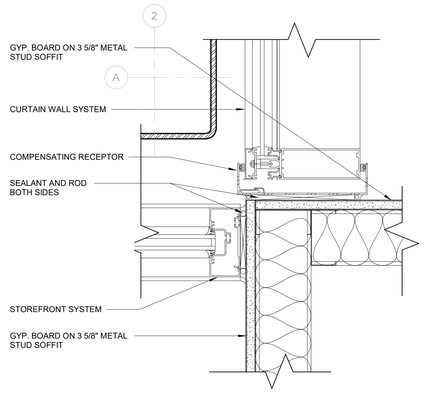
5 STOREFRONT AND CURTAIN WALL CORNER AT LOW LEVEL
3" = 1'-0"



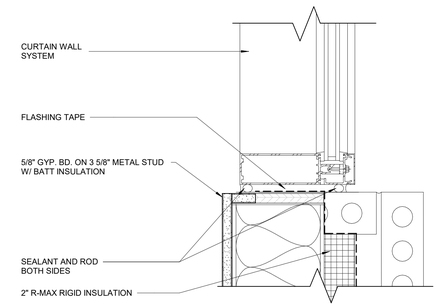
4 CURTAIN WALL JAMB ABOVE EXIST. ROOF
3" = 1'-0"



3 CURTAIN WALL JAMB AT LOW EXISTING WALL
3" = 1'-0" CW-A / A0.30



2 STOREFRONT AND CURTAIN WALL CORNER AT HIGH LEVEL
3" = 1'-0"



1 CW-C JAMB
3" = 1'-0"

© CaCo Architecture LLC 2025

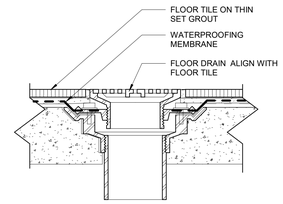
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
CW DETAILS

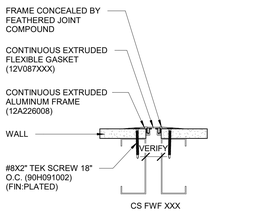
Sheet Number
A0.31

FINISH SCHEDULE

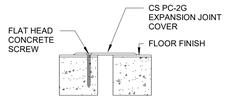
DIVISION	MATERIAL	MANUFACTURER	NAME	COLOR	SIZE	FINISH	COMMENTS
04 MASONRY							
	BRICK	ENDICOTT CLAY PRODUCTS	MANGANESE IRONSPOT SMOOTH		MODULAR	--	--
		TBD	TBD	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	
05 METALS							
ACM1	ALUMINUM COMPOSITE MATERIAL	REYNOBOND	--	FRISCO WHITE	--	--	SOFFIT PANELS
ACM2	ALUMINUM COMPOSITE MATERIAL	REYNOBOND	--	CADET GREY	--	--	FASCIA
06 WOOD & PLASTICS							
WS-1	RED OAK VENEER	--	--	SEE COMMENTS	-	SEMI-GLOSS	MATCH PL-1
PL1	PLASTIC LAMINATE	WILSONART	MONTANA WALNUT	7110-60	--	MATTE	RECEPTION DESK
PL2	PLASTIC LAMINATE	WILSONART	LAPIS BLUE	D417-60	--	MATTE	RECEPTION DESK
PL3	PLASTIC LAMINATE	WILSONART	ORANGE GROOVE	D501-60	--	MATTE	RECEPTION DESK
PL4	PLASTIC LAMINATE	WILSONART	HOLLYBERRY	D307-60	--	MATTE	RECEPTION DESK
QZ1	QUARTZ	WILSONART	CARRARA CODENA Q6022				COUNTERTOPS
SS1	SOLID SURFACE	WILSONART	LORRAINE	Q1012(1)			
07 THERMAL AND MOISTURE							
08 OPENINGS							
	DOORS	--	RED OAK VENEER	MATCH EXISTING	--	--	--
	STOREFRONT	KAWNEER	--	ANODIZED ALUMINIUM	--	--	--
GLZ1	GLAZING	PPG	--	TBD	--	CLR BOTH SURFACES	--
GLZ2	GLAZING	PPG	--	TBD	--	CLR FLOAT GLASS	--
09 FINISHES							
P1	PAINT	KELLY MOORE	--	SOFT SESAME	--	EGG SHELL	FIELD COLOR
CPT1	CARPET TILE	SHAW CONTRACT	DIFFUSE ECOWORX 59575	ROUTES 75500	24"x24"	--	ADMINISTRATION
CPT2	CARPET TILE	SHAW CONTRACT	COLOR FRAME TILE 5T081	AURORA 81855	24"x24"	--	ADMINISTRATION ACCENT
CPT3	CARPET TILE	SHAW CONTRACT	COLOR FRAME TILE 5T081	IMPLY 81485	24"x24"	--	ADMINISTRATION ACCENT
VCT1	VCT	ARMSTRONG FLOORING		52500 CARNIVAL WHITE	12"x12"	--	PROVIDE 6 COATS OF WAX - FIELD
VCT2	VCT	ARMSTRONG FLOORING		51821 CARIBBEAN BLUE	12"x12"	--	PROVIDE 6 COATS OF WAX - ACCENT
VCT3	VCT	ARMSTRONG FLOORING		57516 SCREAMIN PUMPKIN	12"x12"	--	PROVIDE 6 COATS OF WAX - ACCENT
VCT4	VCT	ARMSTRONG FLOORING		57514 SHOCKING	12"x12"	--	PROVIDE 6 COATS OF WAX - ACCENT
T1	TILE	CONCEPT SURFACES	SCRATCH	RAVEN	12"x24"x5/16"	MATTE	RESTROOM FLOORS
T2	TILE	CONCEPT SURFACES	COMPREHENSIVE 2.0	4	12"x24"	MATTE	RESTROOM WALLS
T3	TILE	CONCEPT SURFACES	COMPREHENSIVE 2.0	ROUGE ROUGE 03	12"x24"	MATTE	RESTROOMS WALLS - ACCENT
QT-1	QUARRY TILE	TBD	TBD	MATCH EXISTING	6"x6"x1/2"		WINDOW REPLACEMENT STOOL
TZ1	TERRAZZO	TERRAZCO	--	MATCH ARCHITECTS SAMPLE	--	--	--
TZ2	TERRAZZO	TERRAZCO	--	MATCH ARCHITECTS SAMPLE	--	--	--
TZ3	TERRAZZO	TERRAZCO	--	MATCH ARCHITECTS SAMPLE	--	--	--
TZ4	TERRAZZO	TERRAZCO	--	MATCH ARCHITECTS SAMPLE	--	--	--
RB1	RUBBER BASE	ROPPE	PINNACLE TYPE TS	123 CHARCOAL	4"	--	STANDARD TOE
	ACOUSTICAL CEILINGS						
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	FINE FISSURED AIR ASSURE	WHITE	24"x24"x5/8"		
GRT1	TILE GROUT	CUSTOM BUILDING PRODUCTS	--	#545 BKEACHED WOOD	--	--	WALLS
GRT2	TILE GROUT	CUSTOM BUILDING PRODUCTS	--	#370 DOVE GREY	--	--	FLOORS
10 SPECIALTIES							
	PANEL SIGNS	APCO SIGNS	FULLVIEW	--	--	--	--
11 EQUIPMENT							
12 FURNISHINGS							
WM1	WALK-OFF MAT	CONSTRUCTION SPECIALTIES	DESIGN STEP ENTRANCE CARPET	900 CASTLE GREY	AS SHOWN	POWER POINT PWPT	REFER DETAILS
HBL1	HORIZONTAL LOUVER BLINDS	SWFCONTRACT	HORIZONTAL ALUMINUM BLINDS	SILVER 737	1"		6 GAUGE SLAT
14 CONVEYING EQUIPMENT							



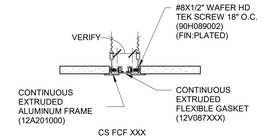
7 FLOOR DRAIN DETAIL
3" = 1'-0"



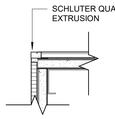
3 EJC-Gypsum Wall EJ Cover
3" = 1'-0"



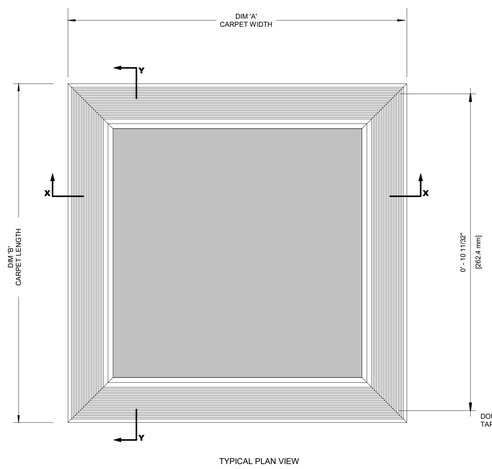
4 EJC - Concrete Floor EJ Cover
3" = 1'-0"



5 EJC-ACT Ceiling EJ Cover
3" = 1'-0"

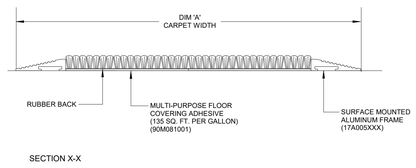


6 TILE CORNER
3" = 1'-0"

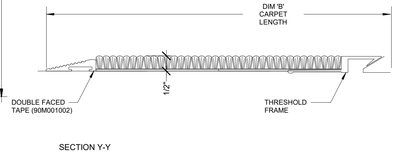


TYPICAL PLAN VIEW

CS BR WALK OFF MATT

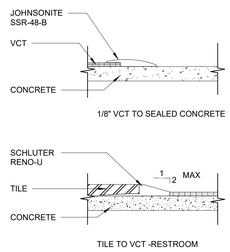


SECTION X-X

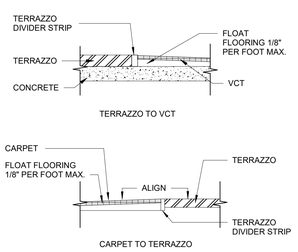


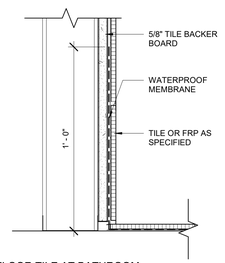
SECTION Y-Y

8 INTERIOR WALK-OFF MAT DETAILS
6" = 1'-0"



2 TRANSITION DETAIL
6" = 1'-0"





1 FLOOR TILE AT BATHROOM
3" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. PAINT:
   A. ALL PAINT TO BE LOW-VOC BY CURRENT CHPS DESIGN CRITERIA
   B. ALL PAINT IS TO BE A THREE COAT SYSTEM PER M.P.I.
   C. TEXTURE SHALL BE ORANGE PEEL U.N.O.
   D. SHEEN SHALL BE EGGSHELL U.N.O.
2. ALL SURFACES SHALL BE PREPARED TO RECEIVE SPECIFIED FINISH PER MANUFACTURERS RECOMMENDED INSTALLATION METHODS.
3. THE GENERAL CONTRACTOR SHALL PREPARE THE FLOOR/ SUBSTRATE PRIOR TO THE APPLICATION OF FINISH FLOORING. THE CONCRETE SLAB MUST BE SMOOTH AND LEVEL TO WITHIN A TOLERANCE OF 1/8" PER FOOT. LATEX CEMENT PATCHING COMPOUND SHALL BE UTILIZED. (NO ASPHALT BASED COMPOUNDS SHALL BE USED)
4. THE FINISHES IN THE FINISH SCHEDULE REPRESENT THE PRODUCT AND COLOR; REFERENCE THE PROJECT - SPECIFICATIONS MANUAL FOR THE APPROPRIATE SYSTEM FOR EACH COMPONENT REQUIREMENTS.
5. DOORS NOTED TO RECEIVE STAIN SHALL HAVE A CLEAR FINISH WITH TWO COATS OF SEALER AND TWO COATS OF STAIN.
6. TILE:
   A. EXPOSED/CUT EDGES ARE NOT ALLOWED.
   B. U.N.O. INSTALL FULL TILES ON OUTSIDE CORNERS.
   C. U.N.O. INSTALL FULL TILES AT THE FLOOR LINE AND CONTINUE VERTICALLY AT LEVEL CONDITIONS.
   D. U.N.O. AT UNLEVEL FLOORS, INSTALL PARTIAL / CUT TILES AT FLOOR LINE TO ALLOW ALIGNMENT AT THE TOP OF THE FIRST TILE THROUGHOUT THE ROOM AND CONTINUE ALIGNMENT VERTICALLY.
   E. U.N.O. TYPICALLY, PARTIAL TILES OCCUR AT CEILING LEVEL IN LIEU OF FLOOR
   F. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
   G. PROVIDE MANUFACTURED TRANSITION ACCESSORIES WHERE APPLICABLE TILE TRIM PIECES ARE NOT AVAILABLE.
7. GROUT:
   A. ALL NON-EPOXY GROUT TO BE SEALED
   B. GROUT JOINTS TO BE 1/8" USE SPACERS DURING INSTALLATION.
   C. RESEAL EXISTING GROUT AFTER CLEANING.
8. PROVIDE TRANSITION STRIPS INDICATED ON THIS SHEET AT LOCATIONS WHERE FINISHES MATCH CONDITIONS IDENTIFIED.
9. SEALANT COLORS TO MATCH ADJACENT SURFACES, TYPICALLY
   A. WALL TO CEILINGS, MATCH WALL FIELD COLOR

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.K. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

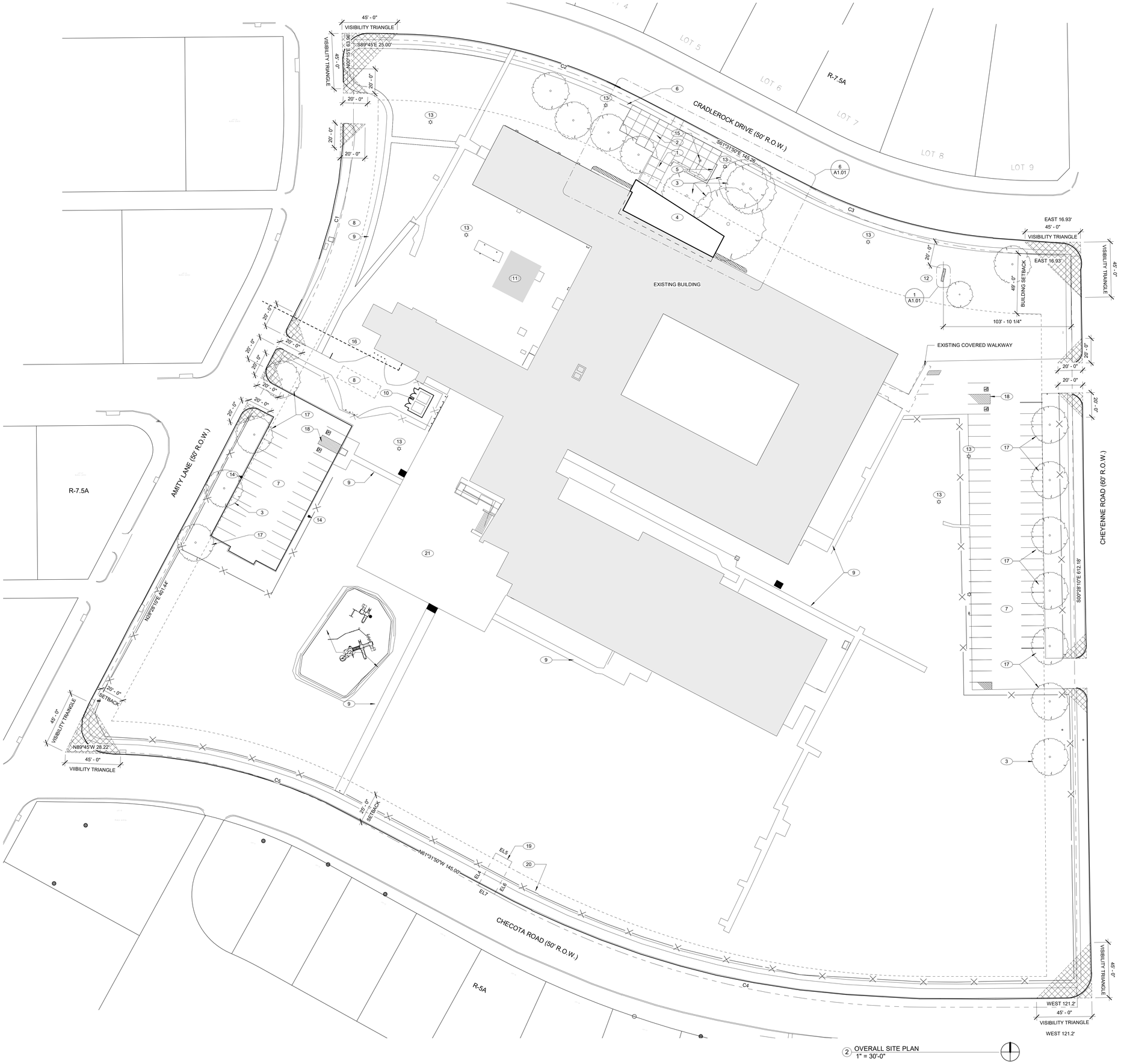
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FINISHES

Sheet Number
A0.40



CITY OF DALLAS STAMP

GENERAL NOTES

1. PROTECT EXISTING ELEMENTS TO REMAIN.
2. COORDINATE SCOPE WITH CIVIL AND LANDSCAPE PLANS.
3. REFER TO ADA COMPLIANCE SHEETS FOR MAX SLOPES AND CROSS SLOPES.
4. GC TO CONFIRM STAGING AREAS.

LEGEND

NEW BUILDING FOOTPRINT

KEYED NOTES

1 ADA RAMP WITH HANDRAILS
2 CONCRETE PAVEMENT
3 EXISTING TREES TO REMAIN
4 ADMINISTRATION SUITE EXPANSION
5 NEW CONCRETE RETAINING WALL
6 EXISTING SIDEWALKS
7 EXISTING PARKING LOT
8 EXISTING ASPHALT PAVING
9 EXISTING WALKWAY
10 EXISTING DUMPSTER AND ENCLOSURE
11 EXISTING EQUIPMENT BUILDING
12 MONUMENT SIGN PERPENDICULAR TO STREET
13 EXISTING POLE LIGHTING FIXTURE TO BE REPLACED
14 POLE LIGHT. LITHONIA LIGHTING D-SERIES SIZE 1
15 FLAG POLE W/ LIGHTED FINEAL
16 FIBER OPTIC PATHWAY INTO BUILDING
17 NEW TREE
18 EXISTING HC PARKING
19 EXISTING ELECTRICAL EASEMENT
20 EXISTING 4'-0" CHAINLINK FENCE
21 EXISTING PAVED PLAYGROUND
22 EXISTING PLAYGROUND

John W. Runyon Elementary School - Org 237
Parking Requirements

Parking Requirements (No additional classrooms in scope; Parking N.I.C.)	
Criteria for number of parking spaces:	N/A (1.5 spaces per school classroom)
Required parking spaces:	66
Existing parking spaces:	71
Existing H/C parking spaces:	4
Number of handicapped stalls required:	4 (TAS table 208.2 Parking spaces)
Loading Requirements	
Quantity:	N/A (1 loading berth required)

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.E. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
SITE PLAN

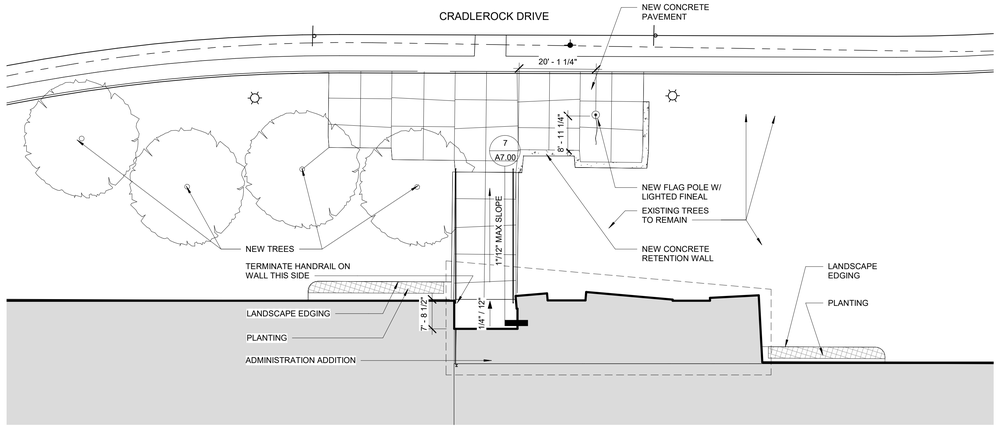
Sheet Number
A1.00

CITY OF DALLAS STAMP

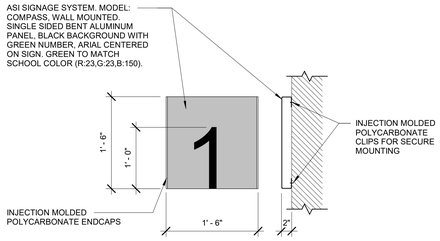
CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.K. CAMPBELL 23791 STATE OF TEXAS

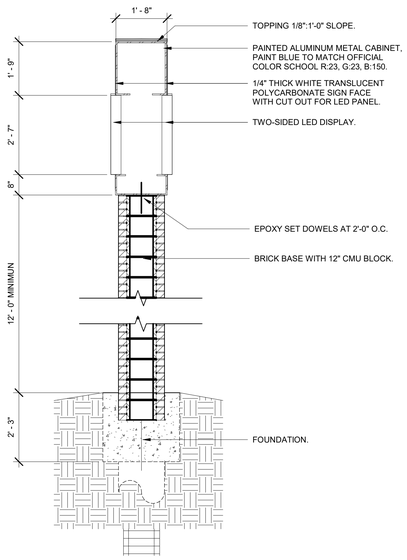
DATE:10.22.2025
EXP: 12/2025



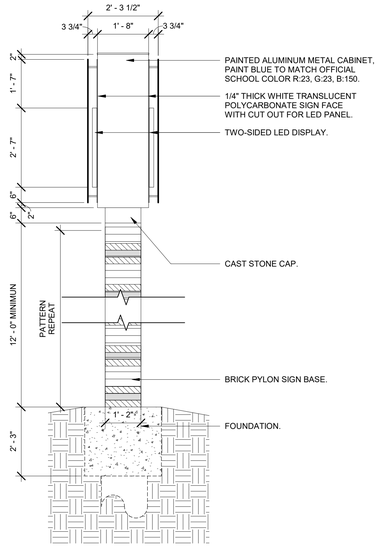
6 ENLARGED SITE PLAN
1/16" = 1'-0"



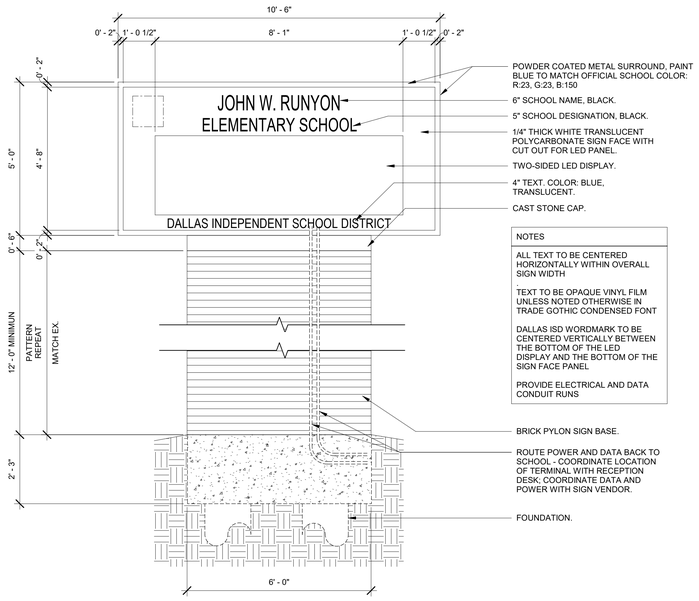
5 DOOR IDENTIFICATION SIGN
1" = 1'-0"



4 SECTION - MONUMENT SIGN
1/2" = 1'-0"



3 TYP. SIDE ELEVATION - MONUMENT SIGN
1/2" = 1'-0"



NOTES

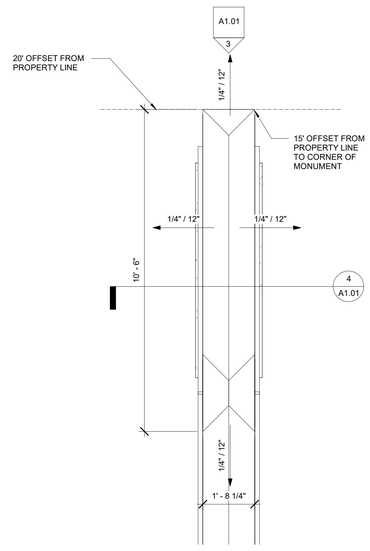
ALL TEXT TO BE CENTERED HORIZONTALLY WITHIN OVERALL SIGN WIDTH

TEXT TO BE OPAQUE VINYL FILM UNLESS NOTED OTHERWISE IN TRADE GOTHIC CONDENSED FONT

DALLAS ISD WORDMARK TO BE CENTERED VERTICALLY BETWEEN THE BOTTOM OF THE LED DISPLAY AND THE BOTTOM OF THE SIGN FACE PANEL

PROVIDE ELECTRICAL AND DATA CONDUIT RUNS

2 FRONT ELEVATION - MONUMENT SIGN
1/2" = 1'-0"



1 ENLARGED PLAN - MONUMENT SIGN
1/2" = 1'-0"

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
SITE DETAILS

Sheet Number
A1.01

Luminaire Schedule								
Symbol	Type	Qty	Manufacturer / Catalog Number	Total Lumen Output	Total Input Watts	Ballast Factor	Light Lost Factor	User Defined Factor
	S3-1	3	LITHONIA DSX1 LED-P3-40K-70CRI-T3M-VOLTAGE-MOUNTING-FINISH | SINGLE	13762	102.17	1.000	0.900	1.000
	S3-2	3	LITHONIA DSX1 LED-P3-40K-70CRI-T3M-VOLTAGE-MOUNTING-FINISH | 2@180 DEGREES	27524	204.34	1.000	0.900	1.000
	S4-1	8	LITHONIA DSX1 LED-P3-40K-70CRI-T4M-VOLTAGE-MOUNTING-FINISH | SINGLE	13967	102.17	1.000	0.900	1.000

Calculation Summary							
Calculation Grid Location	Calc. Height (Ft.)	Units	Avg	Max	Min	Avg/Min	Max/Min
GRADE_Planar	0	Fc	0.30	2.5	0.0	N.A.	N.A.
PROPERTY LINE	N.A.	Fc	0.39	2.2	0.0	N.A.	N.A.
PARKING LOT - E		Fc	1.89	2.5	0.7	2.70	3.57
PARKING LOT - W		Fc	1.57	2.5	0.5	3.14	5.00

Isoline Legend	
Illuminance (Fc)	
Color	Value
	0.2
	0.5
	1

CRADLEROCK DRIVE

CHEYENNE ROAD

AMITY LANE

CHECOTA ROAD

PARKING LOT - W

PARKING LOT - E

S3-1 MH: 30

S3-2 MH: 30

S4-1 MH: 30

CITY OF DALLAS STAMP

CaCo architecture

1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

ISSUED FOR PERMIT REVIEW

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF BRIAN CAMPBELL REGISTERED ARCHITECT, STATE OF TEXAS, 23791, DATE 10/22/2025. IT IS NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

E.J. CAMPBELL 23791 REGISTERED ARCHITECT STATE OF TEXAS

EXP: 12/2025

DALLAS ISD

JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237

10750 CRADLEROCK DRIVE DALLAS, TX 75217

100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2023

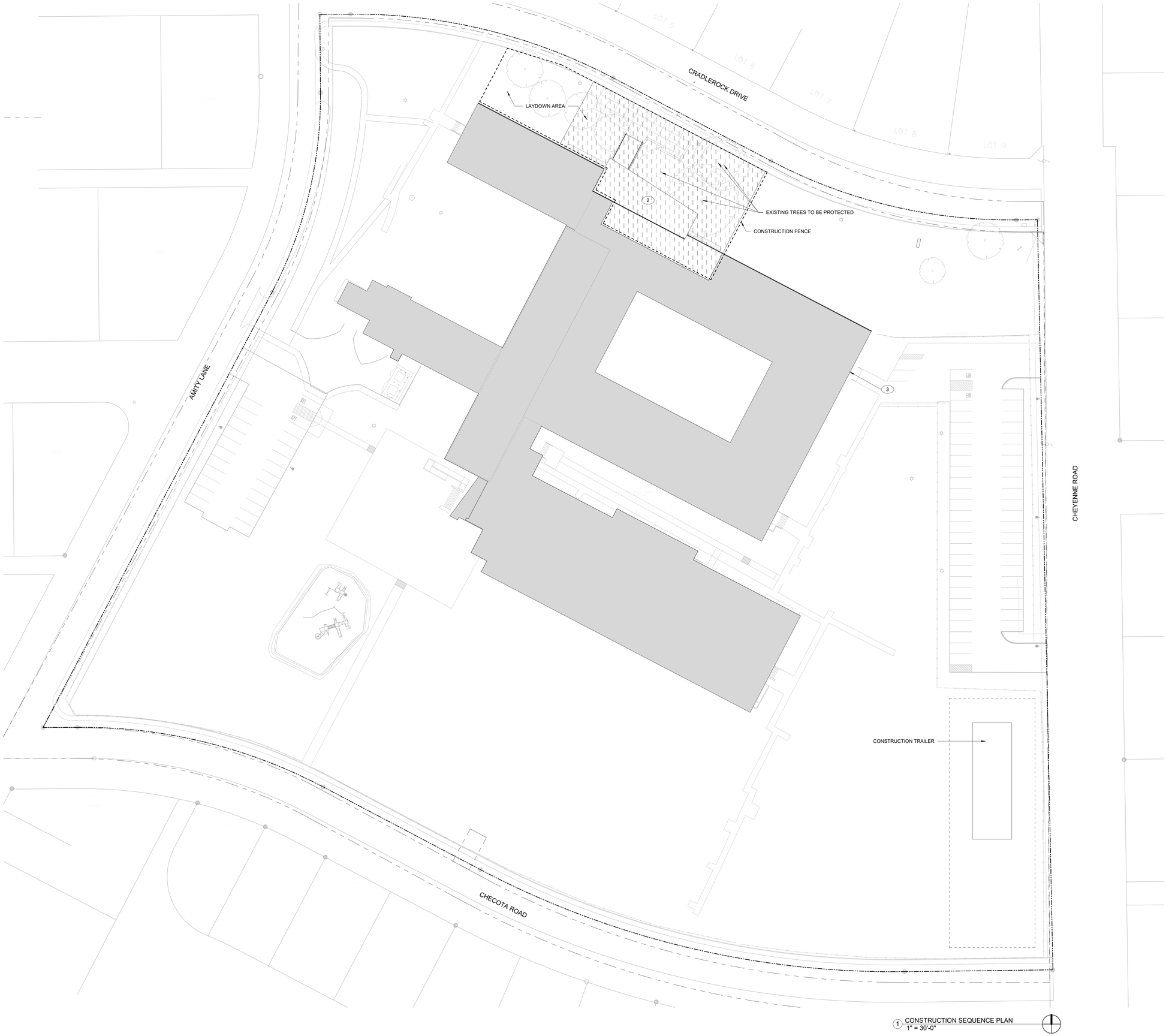
Project Number
2022.012

Issue Date
10.22.2025

Revised:

Sheet Title
PHOTOMETRICS

Sheet Number
A1.02



1 CONSTRUCTION SEQUENCE PLAN
1" = 30'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. (15) BUSINESS DAY PRIOR TO THE START OF DEMO WORK, THE CONTRACTOR TO SCHEDULE A WALK WITH DISD FACILITIES TO IDENTIFY ITEMS THAT DISD FACILITIES WANT TO SALVAGE. ITEMS THAT ARE IDENTIFIED BY DISD TO BE SALVAGED, THE CONTRACTOR NEEDS TO DISCONNECT / REMOVE AND BRING ON 1ST LEVEL (IF APPLICABLE) AT A LOCATION WHERE DISD CAN CONVENIENTLY PICK THEM UP. PROVIDE DISD (10) BUSINESS DAY NOTICE FOR THE ITEM PICK UP. IF DISD DOES NOT PICK UP ITEM(S) IN 10 BUSINESS DAYS, THE CONTRACTOR NEEDS TO HAUL OFF ALL ITEMS AT NO COST TO DISD.

LEGEND

- PHASE 1 - EXISTING BUILDING INTERIOR RENOVATIONS
- PHASE 2 - ADMINISTRATION SUITE AND SITE DEMOLITION AND REMODEL/NEW CONSTRUCTION

PHASING NOTES

CONCURRENT START

PHASE 1 - SUMMER CONSTRUCTION
- INTERIOR RENOVATION WITHIN EXISTING SCHOOL
- MECHANICAL SYSTEM REPLACEMENT THROUGHOUT

PHASE 2 - SUMMER CONSTRUCTION
- DEMOLITION OF ADMIN AREA
- DEMOLITION OF SITE NEAR ENTRY
- NEW ADDITION CONSTRUCTION
- NEW ENTRY SITE CONSTRUCTION

KEYED NOTES

1. NEW PROPOSED ENTRY SITEWORK
2. NEW ADMINISTRATION SUITE
3. TEMPORARY SCHOOL ENTRANCE. GC TO PROVIDE PATHWAYS AND POWER AS REQUIRED TO ENABLE SECURITY ACCESS SYSTEM. COORDINATE SPECIFIC REQUIREMENTS WITH DISD.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMPBELL 23761 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

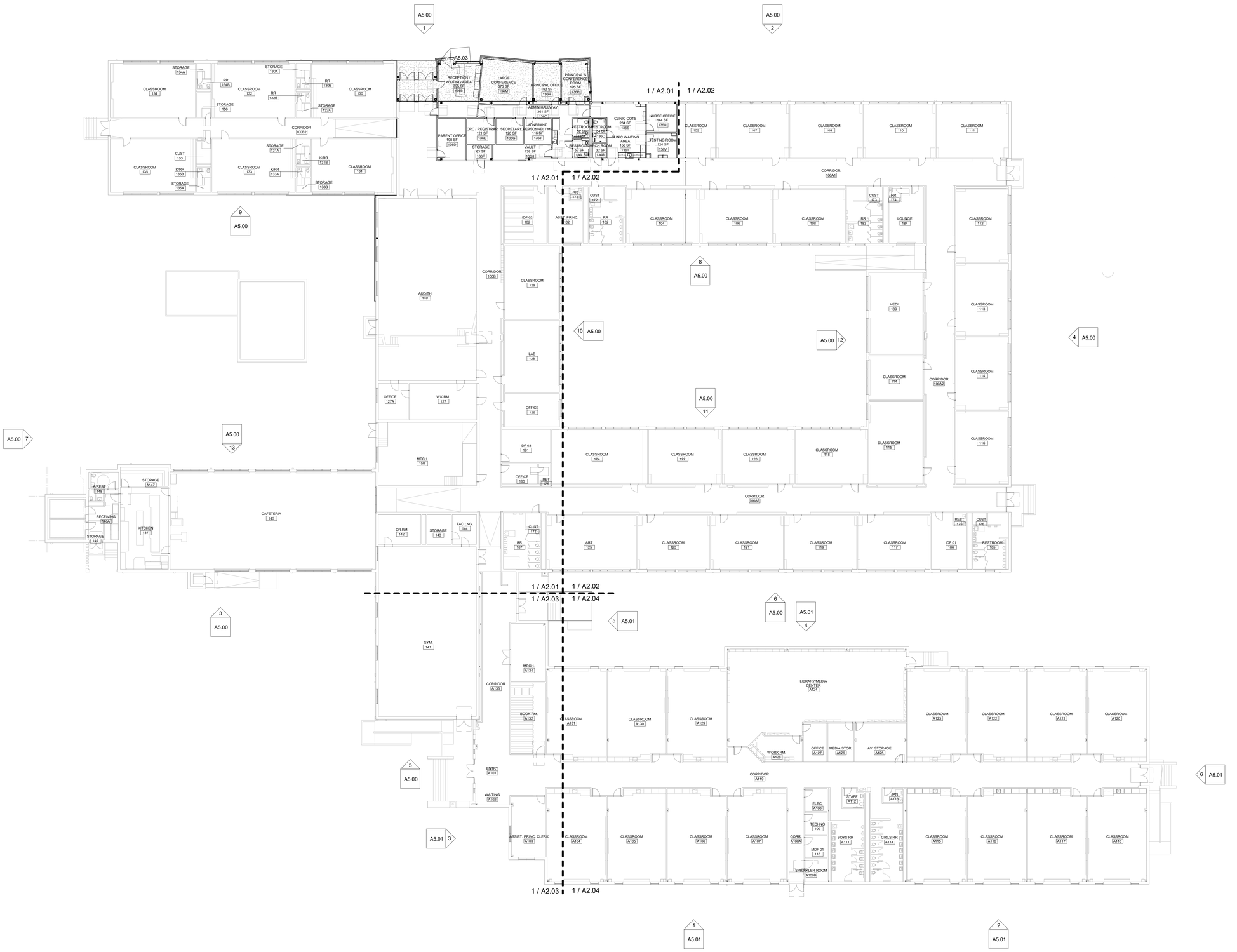
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
SEQUENCE PLAN

Sheet Number
A1.03



1 OVERALL FLOOR PLAN
1/16" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M. CAMPBELL 21701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

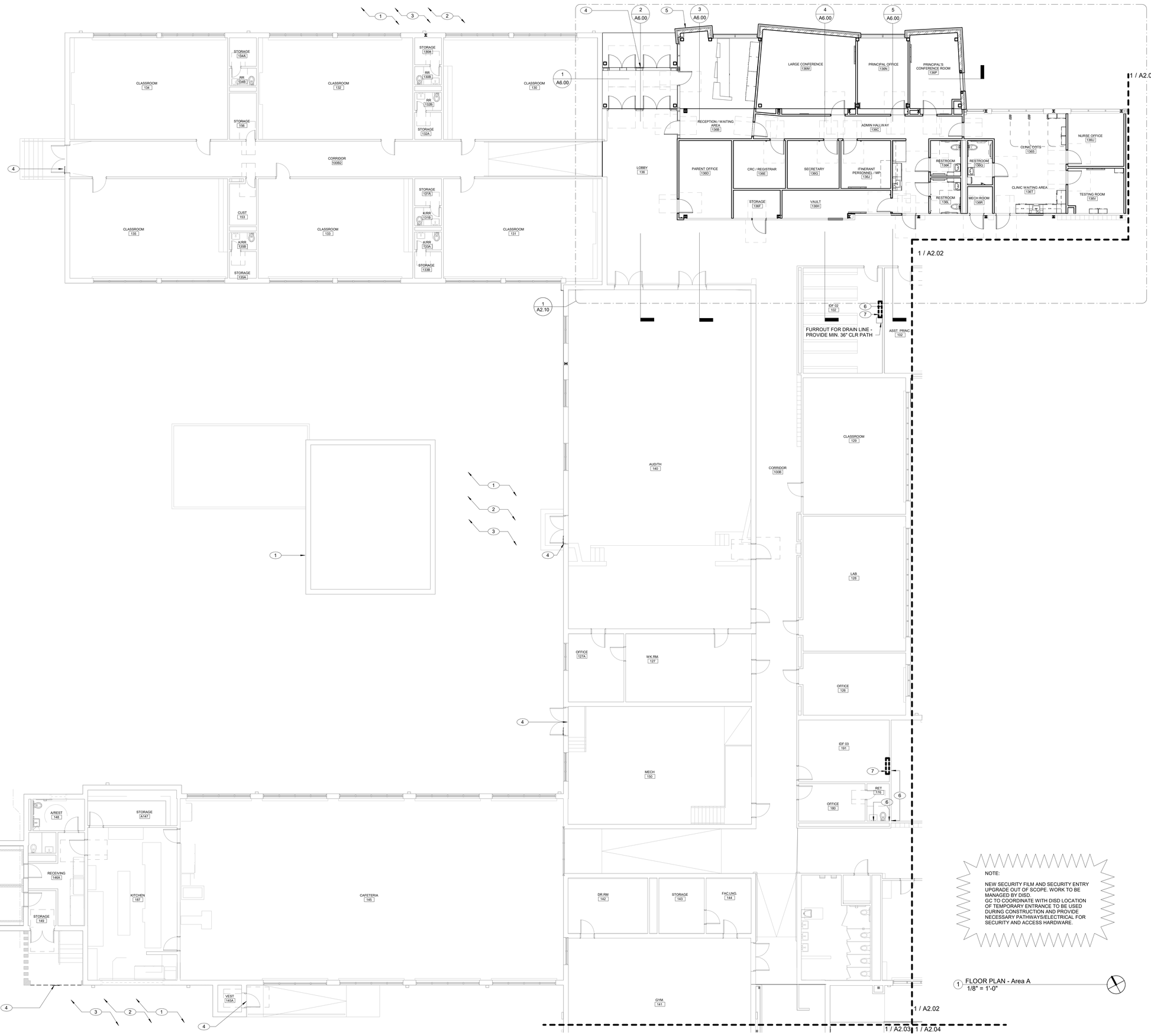
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
OVERALL PLAN

Sheet Number
A2.00



NOTE:

NEW SECURITY FILM AND SECURITY ENTRY UPGRADE OUT OF SCOPE. WORK TO BE MANAGED BY DISD.
GC TO COORDINATE WITH DISD LOCATION OF TEMPORARY ENTRANCE TO BE USED DURING CONSTRUCTION AND PROVIDE NECESSARY PATHWAYS/ELECTRICAL FOR SECURITY AND ACCESS HARDWARE.

1 FLOOR PLAN - Area A
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

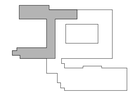
- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS, DOWNSPOUTS, ENTRY DOORS, HANDRAILS
2 REPLACE ALL EXTERIOR WATERPROOFING SYSTEM/SEALANT JOINTS & BACKER RODS (INCLUDE ALL EXTERIOR WALL CONTROL/EXPANSION JOINTS, MATERIAL PRANSITIONS, AROUND DOOR AND WINDOW FRAMES, WALL PENETRATIONS, ETC.)
3 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS
4 DOOR IDENTIFICATION SIGN
5 ALUMINUM BUILDING SCHOOL SIGNAGE AND ADDRESS
6 COORDINATE INWALL INSTALLATION OF CONDENSATE LINE, REPAIR WALL AS REQUIRED.
7 WALL MOUNTED HVAC UNIT.

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M. CAMARGO 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FLOOR PLAN A

Sheet Number
A2.01



1 FLOOR PLAN - Area B
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

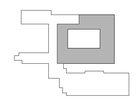
- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS, DOWNSPOUTS, ENTRY DOORS, HANDRAILS
2 REPLACE ALL EXTERIOR WATERPROOFING SYSTEM/SEALANT JOINTS & BACKER RODS (INCLUDE ALL EXTERIOR WALL CONTROL/EXPANSION JOINTS, MATERIAL PRANSITIONS, AROUND DOOR AND WINDOW FRAMES, WALL PENETRATIONS, ETC.)
3 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS
4 DOOR IDENTIFICATION SIGN
5 ALUMINUM BUILDING SCHOOL SIGNAGE AND ADDRESS
6 COORDINATE INWALL INSTALLATION OF CONDENSATE LINE, REPAIR WALL AS REQUIRED.
7 WALL MOUNTED HVAC UNIT.

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

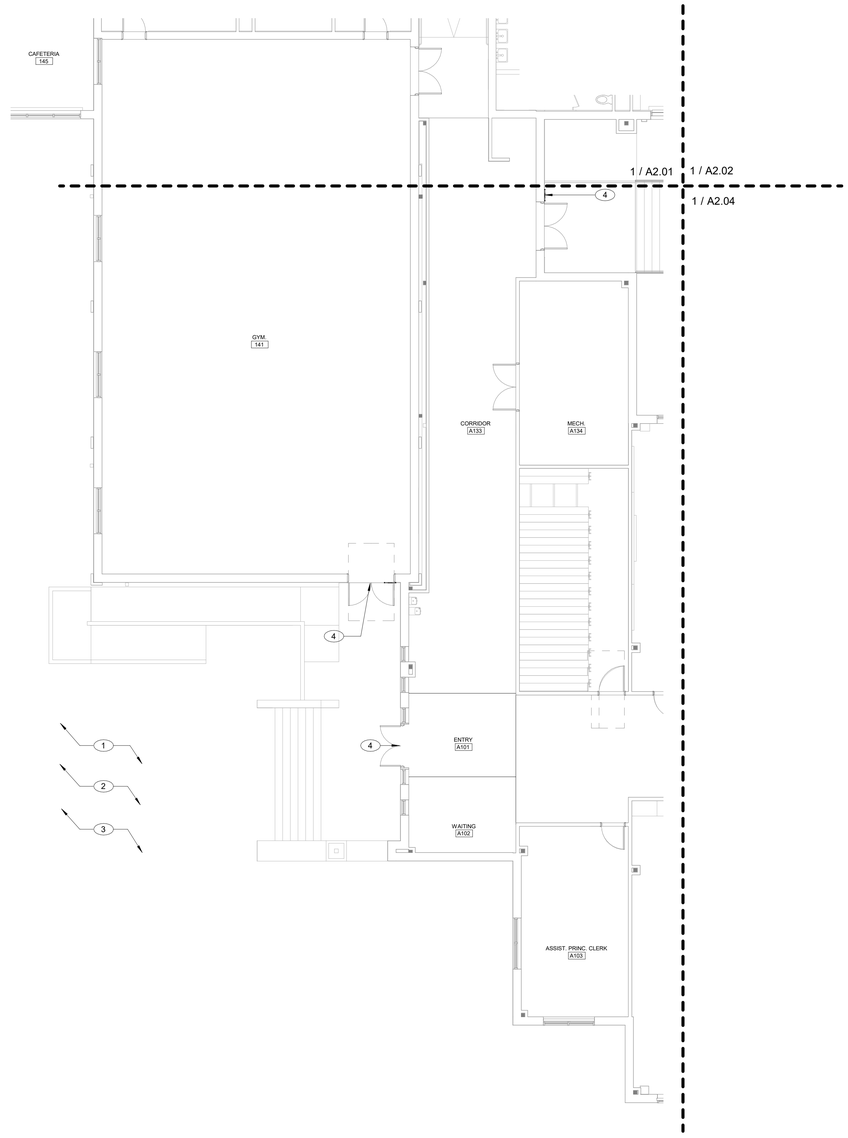
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FLOOR PLAN B

Sheet Number
A2.02



NOTE:

NEW SECURITY FILM AND SECURITY ENTRY UPGRADE OUT OF SCOPE. WORK TO BE MANAGED BY DISD.
GC TO COORDINATE WITH DISD LOCATION OF TEMPORARY ENTRANCE TO BE USED DURING CONSTRUCTION AND PROVIDE NECESSARY PATHWAYS/ELECTRICAL FOR SECURITY AND ACCESS HARDWARE.

1 FLOOR PLAN - Area C
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS, DOWNSPOUTS, ENTRY DOORS, HANDRAILS
2 REPLACE ALL EXTERIOR WATERPROOFING SYSTEM/SEALANT JOINTS & BACKER RODS (INCLUDE ALL EXTERIOR WALL CONTROL/EXPANSION JOINTS, MATERIAL PRANSITIONS, AROUND DOOR AND WINDOW FRAMES, WALL PENETRATIONS, ETC.)
3 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS
4 DOOR IDENTIFICATION SIGN
5 ALUMINUM BUILDING SCHOOL SIGNAGE AND ADDRESS
6 COORDINATE INWALL INSTALLATION OF CONDENSATE LINE, REPAIR WALL AS REQUIRED.
7 WALL MOUNTED HVAC UNIT.

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.C. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

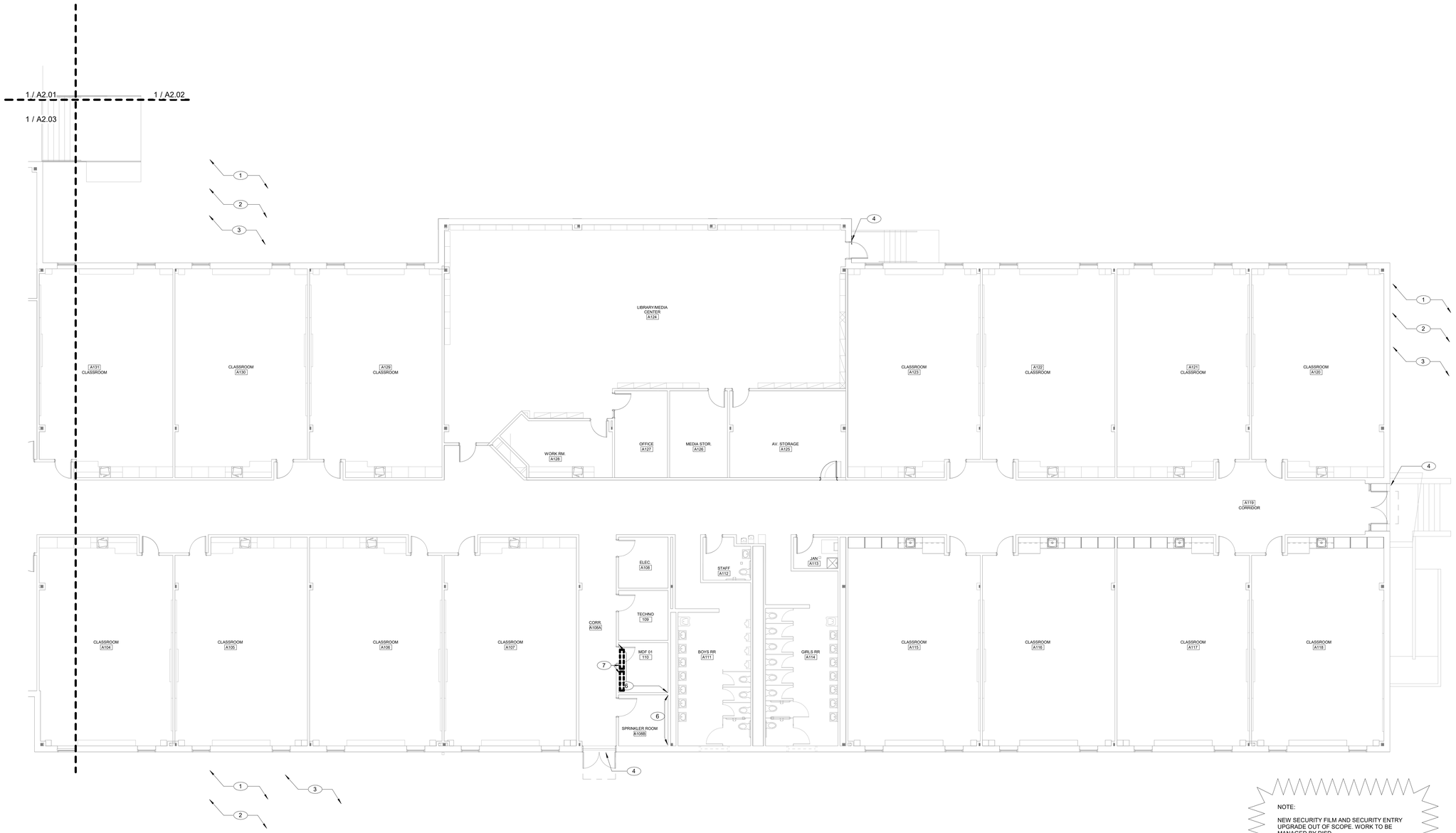
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FLOOR PLAN C

Sheet Number
A2.03



NOTE:

NEW SECURITY FILM AND SECURITY ENTRY UPGRADE OUT OF SCOPE. WORK TO BE MANAGED BY DISD.
GC TO COORDINATE WITH DISD LOCATION OF TEMPORARY ENTRANCE TO BE USED DURING CONSTRUCTION AND PROVIDE NECESSARY PATHWAYS/ELECTRICAL FOR SECURITY AND ACCESS HARDWARE.

1 FLOOR PLAN - Area D
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS, DOWNSPOUTS, ENTRY DOORS, HANDRAILS
2 REPLACE ALL EXTERIOR WATERPROOFING SYSTEM/SEALANT JOINTS & BACKER RODS (INCLUDE ALL EXTERIOR WALL CONTROL/EXPANSION JOINTS, MATERIAL PRANSITIONS, AROUND DOOR AND WINDOW FRAMES, WALL PENETRATIONS, ETC.)
3 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS
4 DOOR IDENTIFICATION SIGN
5 ALUMINUM BUILDING SCHOOL SIGNAGE AND ADDRESS
6 COORDINATE INWALL INSTALLATION OF CONDENSATE LINE, REPAIR WALL AS REQUIRED.
7 WALL MOUNTED HVAC UNIT.

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.C. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

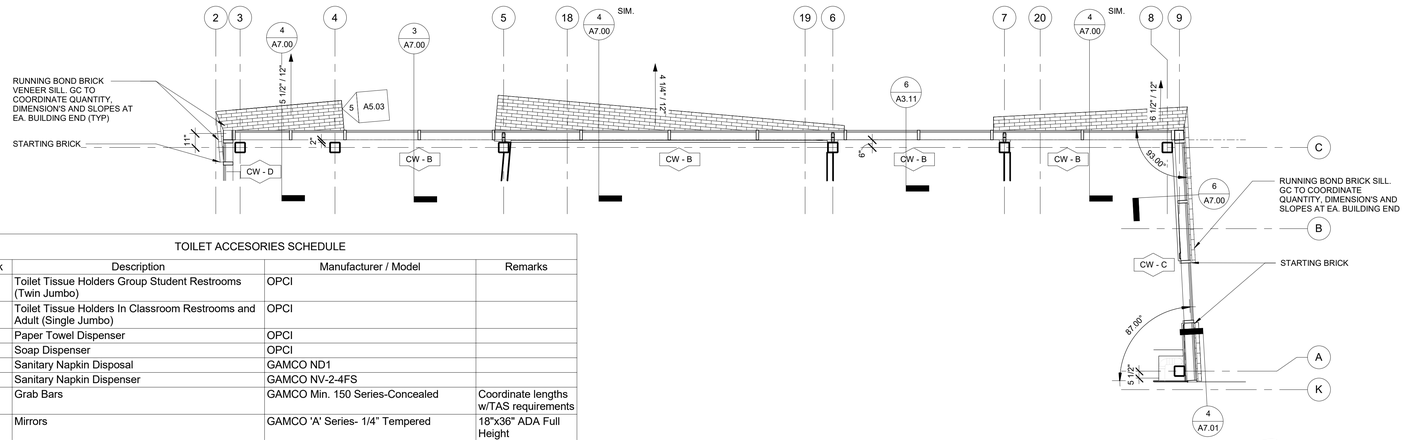
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

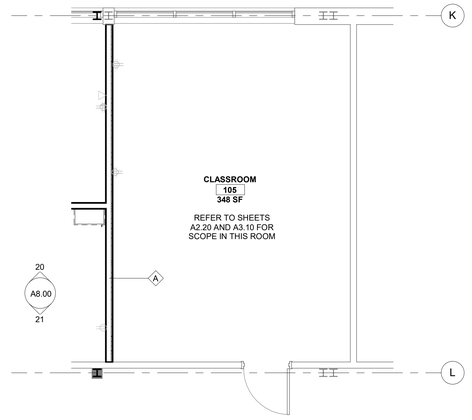
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FLOOR PLAN D

Sheet Number
A2.04



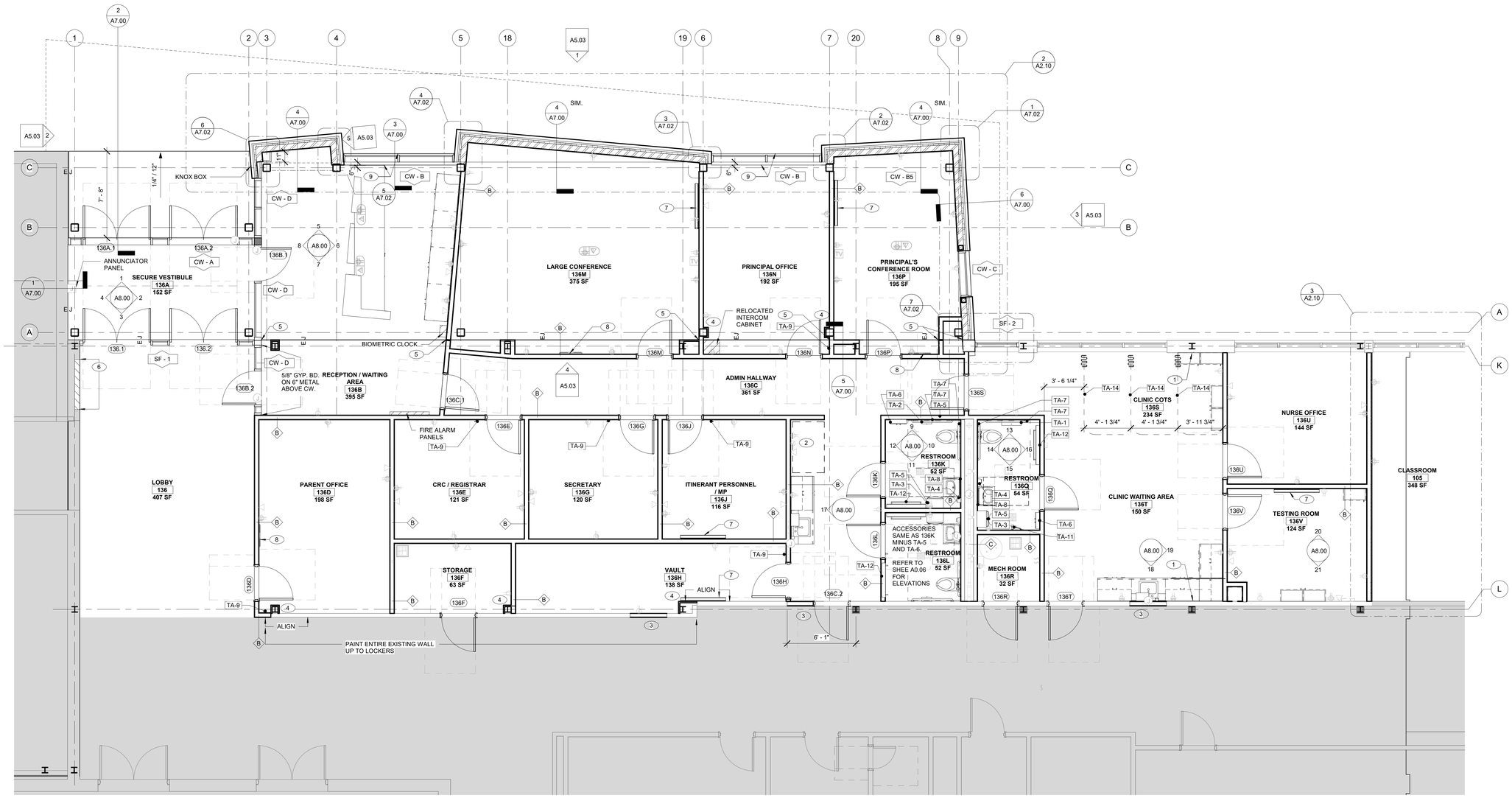
2 MAIN FACADE HIGH LEVEL FLOOR PLAN - ADMIN AREA
1/4" = 1'-0"



3 CLASSROOM 105 ENLARGED PLAN
1/4" = 1'-0"

TOILET ACCESORIES SCHEDULE

Type Mark	Description	Manufacturer / Model	Remarks
TA-1	Toilet Tissue Holders Group Student Restrooms (Twin Jumbo)	OPCI	
TA-2	Toilet Tissue Holders In Classroom Restrooms and Adult (Single Jumbo)	OPCI	
TA-3	Paper Towel Dispenser	OPCI	
TA-4	Soap Dispenser	OPCI	
TA-5	Sanitary Napkin Disposal	GAMCO ND1	
TA-6	Sanitary Napkin Dispenser	GAMCO NV-2-4FS	
TA-7	Grab Bars	GAMCO Min. 150 Series-Concealed	Coordinate lengths w/TAS requirements
TA-8	Mirrors	GAMCO 'A' Series- 1/4" Tempered	18"x36" ADA Full Height
TA-9	Robe Hook	Bobrick B-9541	
TA-10	Pipe Insulation	Truebro	
TA-11	Hand Held Shower	VS-1001-ADA PE-2724 (E15)	
TA-12	Baby Changing Station	KOALA CARE KB300-SS	
TA-13	24" X 24" Chase Access Panel	Stainless Steel	
TA-14	Track mounted hush curtain	Construction Specialties	



1 ENLARGED FLOOR PLAN - ADMIN AREA
1/4" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PATCH AND MATCH EXISTING WALL
2 COPIER BY OWNER
3 PATCH EXISTING OPENING IN PLASTER PARTITION, MATCH WIDTH, FEATHER OUT JOINTS AS REQUIRED TO MAKE PATCH INCONSPICUOUS, PATCH TEXTURE AND PAINT
4 FURROUT COLUMN W/7/8" HAT CHANNELS
5 EXPANSION JOIN COVER
6 INFILL EXISTING CONVECTOR OPENING WITH SALVAGED EXISTING BRICK FINISH MATCHING EXISTING.
7 4'x4' MARKERBOARD
8 4'x4' TACKBOARD
9 LINE OF CONCRETE CURB BELOW

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.K. CAMPBELL 23761 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

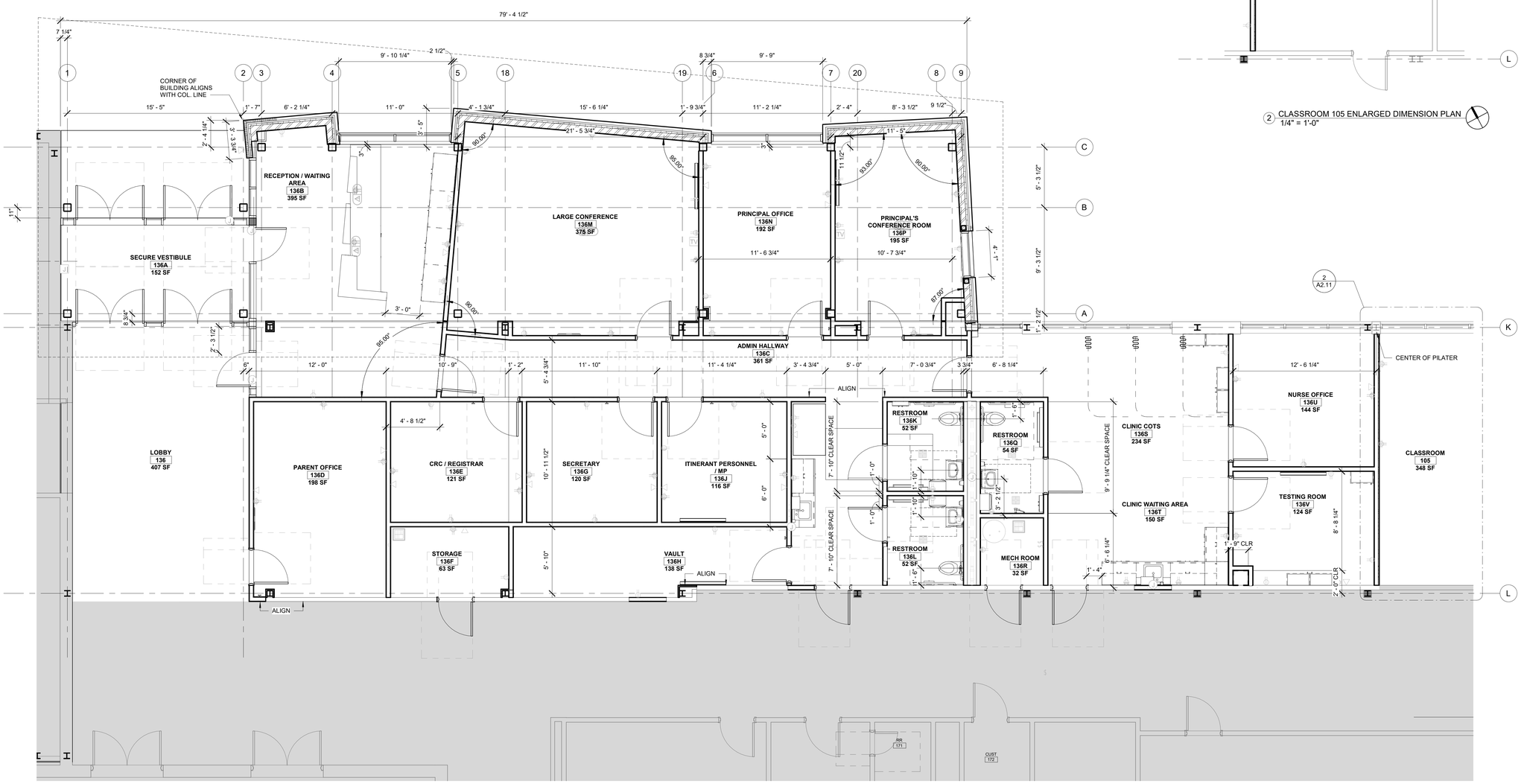
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

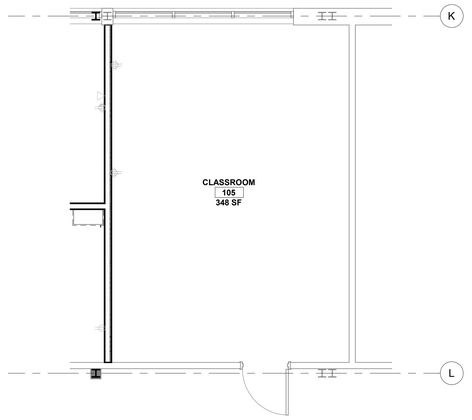
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FLOOR PLAN
ADMIN

Sheet Number
A2.10



1 ENLARGED DIMENSION PLAN - ADMIN AREA
1/4" = 1'-0"



2 CLASSROOM 105 ENLARGED DIMENSION PLAN
1/4" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE ROOM IDENTIFICATION SIGNAGE FOR ALL NEW ROOMS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.
8. DOORS DEPICT REQUIRED ACCESSIBLE CLEARANCES, SHOULD ACTUAL CONDITIONS OVERLAP THOSE DIMENSIONS GC SHALL NOTIFY ARCHITECT PRIOR TO FRAMING.

BUILDING SF

- ADMIN. EXPANSION 1105 SF
- ADMIN. RENOVATION 2326 SF
- VESTIBULE RENOVATION 155 SF
- EXTERIOR CANOPY 652 SF

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING AREA - NO EGRESS CHANGES

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.C. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

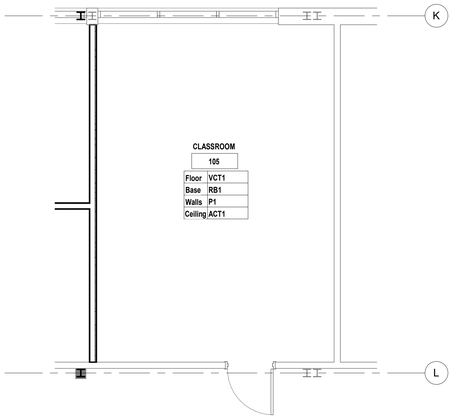
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
DIMENSION PLAN

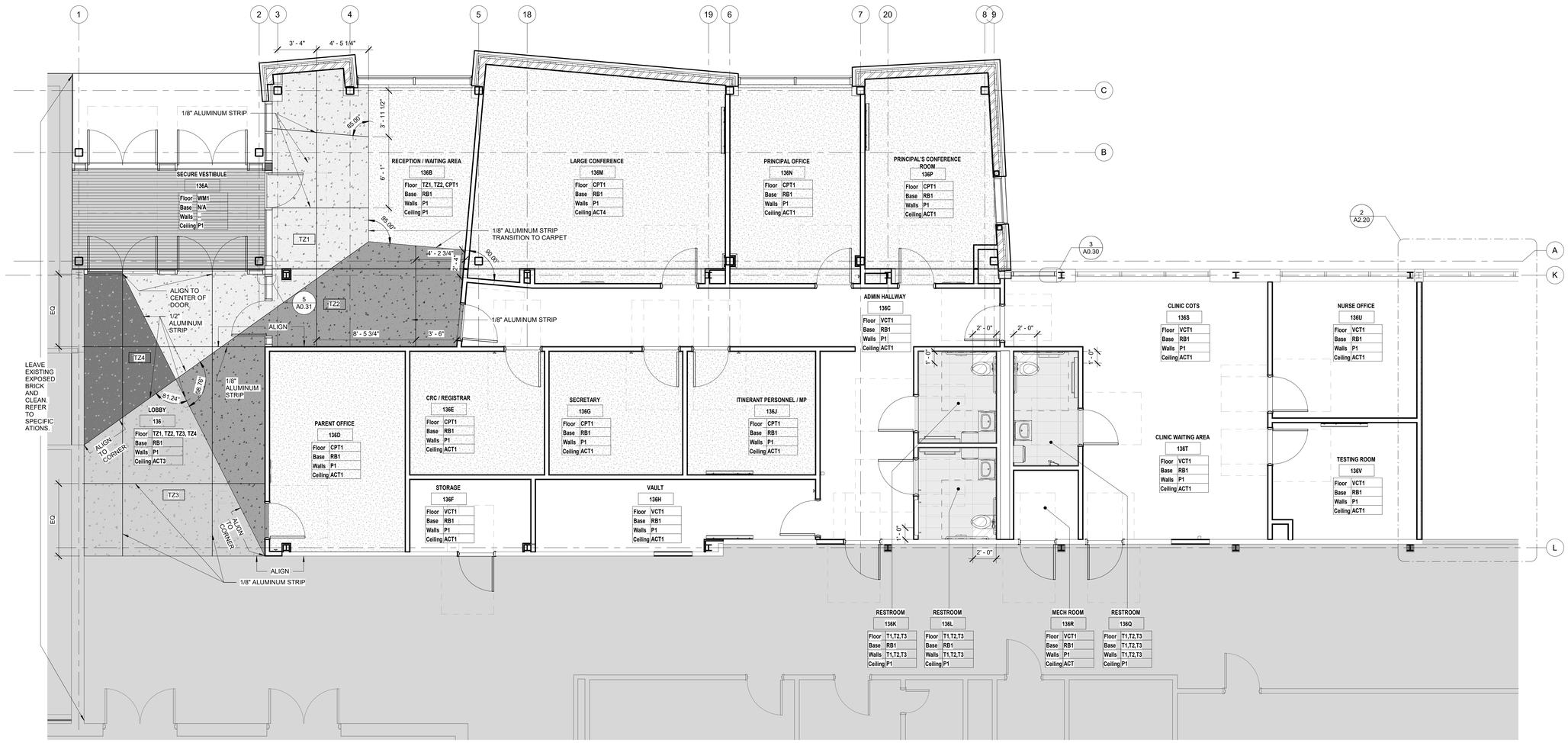
Sheet Number
A2.11

ROOM FINISH SCHEDULE

Number	Name	Finishes				Comments	N.I.C.
		Base Finish	Floor Finish	Wall Finish	Ceiling Finish		
100A1	CORRIDOR						
105	CLASSROOM						
130A	RECEPTION	RB1	CPT1	P1	ACT1		
136	LOBBY	RB1	TZ1, TZ2, TZ3, TZ4	P1	ACT3		
136A	SECURE VESTIBULE	N/A	WM1	--	P1		
136B	RECEPTION / WAITING AREA	RB1	TZ1, TZ2, CPT1	P1	P1	EXPANSION	
136C	ADMIN HALLWAY	RB1	VCT1	P1	ACT1		
136D	PARENT OFFICE	RB1	CPT1	P1	ACT1		
136E	CRC / REGISTRAR	RB1	CPT1	P1	ACT1		
136F	STORAGE	RB1	VCT1	P1	ACT1		
136G	SECRETARY	RB1	CPT1	P1	ACT1		
136H	VAULT	RB1	VCT1	P1	ACT1		
136J	ITINERANT PERSONNEL / MP	RB1	CPT1	P1	ACT1		
136K	RESTROOM	RB1	T1,T2,T3	T1,T2,T3	P1		
136L	RESTROOM	RB1	T1,T2,T3	T1,T2,T3	P1		
136M	LARGE CONFERENCE	RB1	CPT1	P1	ACT4	EXPANSION	
136N	PRINCIPAL OFFICE	RB1	CPT1	P1	ACT1	EXPANSION	
136P	PRINCIPAL'S CONFERENCE ROOM	RB1	CPT1	P1	ACT1	EXPANSION	
136Q	RESTROOM	T1,T2,T3	T1,T2,T3	T1,T2,T3	P1		
136R	MECH ROOM	RB1	VCT1	P1	ACT		
136S	CLINIC COTS	RB1	VCT1	P1	ACT1		
136T	CLINIC WAITING AREA	RB1	VCT1	P1	ACT1		
136U	NURSE OFFICE	RB1	VCT1	P1	ACT1		
136V	TESTING ROOM	RB1	VCT1	P1	ACT1		
137A	STORE						



2 CLASSROOM 105 ENLARGED FINISH PLAN
1/4" = 1'-0"



1 ENLARGED FINISH PLAN - ADMIN AREA
1/4" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. PROVIDE CORNER GUARDS AT ALL EXTERIOR CORNERS.
2. PROVIDE TRANSITIONS AT ALL CHANGES IN FLOORING FINISH.
3. PROVIDE WATERPROOF MEMBRANE UNDER TILE AT ALL RESTROOM LOCATIONS.
4. AREAS TO RECEIVED SEALED CONCRETE FINISH - PROTECT PLACED CONCRETE AFTER INSTALLATION TO PROTECT AGAINST DAMAGE FROM CONSTRUCTION ACTIVITIES.
5. COORDINATE TERRAZZO PATTERN AND CONCRETE JOINTS TO MINIMIZE ANY ADDITIONAL TERRAZZO REVEALS.
6. ALL SPACES/SURFACES ARE TO RECEIVE FINISHES - MIN. VCT, BASE, PAINT AND ACT, UNO. VERIFY ANY SPACES NOT CALLED OUT WITH ARCHITECT.
7. EXPOSED COLUMNS TO BE PAINTED P1, UNO.

LEGENDS

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- NOT IN SCOPE

FINISH LEGEND

- VCT1
- CPT1
- TZ1
- TZ2
- TZ3
- TZ4
- T1
- T3
- WM1

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

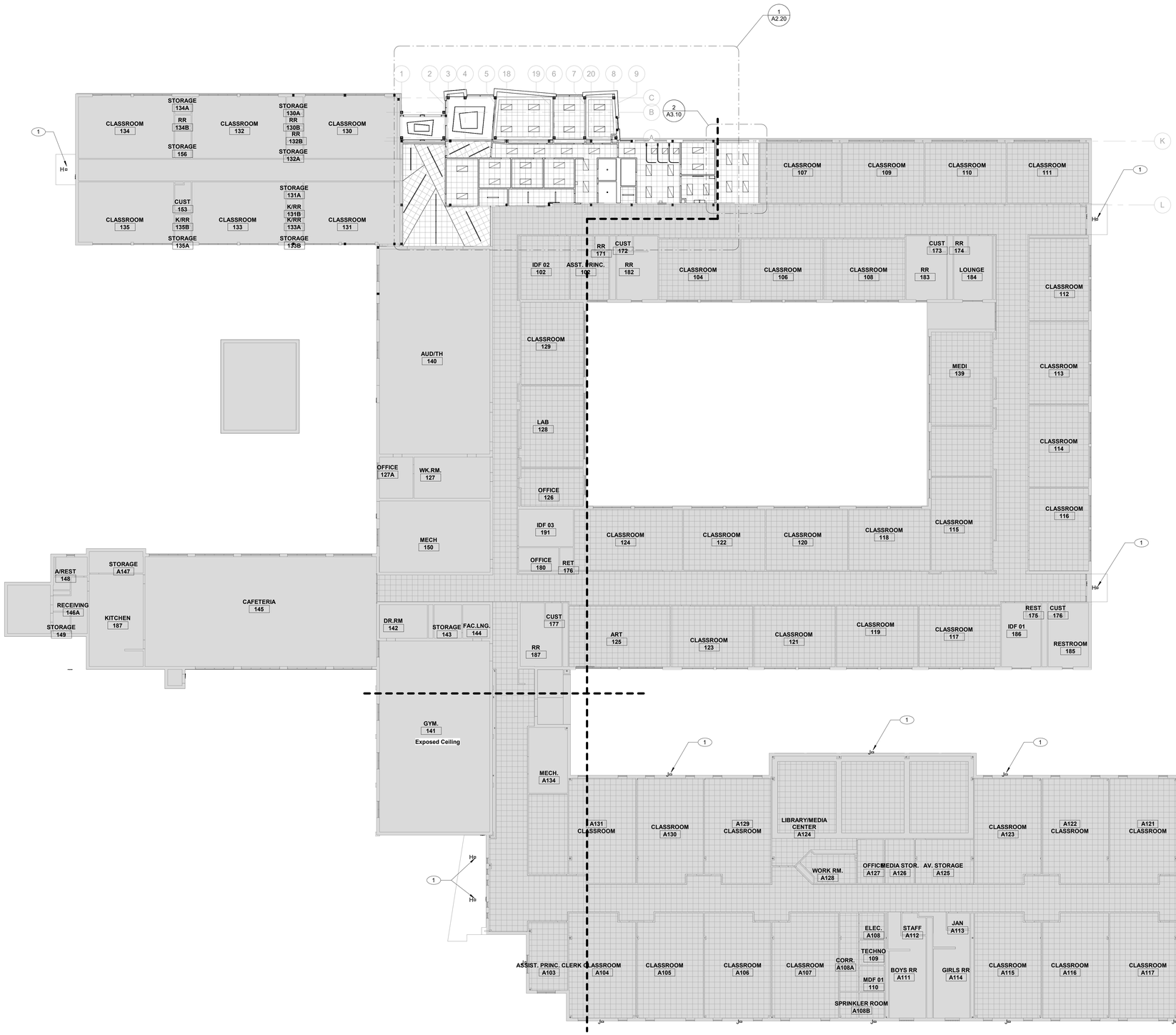
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
FINISHES ADMIN

Sheet Number
A2.20



1 OVERALL RCP
1/16" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. REFER TO INTERIORS PACKAGE FOR LIGHT FIXTURE INFORMATION; COORDINATE WITH DESIGN DRAWINGS/SPECIFICATIONS.
3. REFER TO ELECTRICAL PLAN FOR ADDITIONAL LIGHT FIXTURE INFORMATION REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL LIGHTING.
4. COVER FLOORS AND FURNITURE WITH PROTECTIVE BARRIER AT ALL ROOMS WHERE IS WORK ABOVE CEILING.

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- NOT IN SCOPE

KEYED NOTES

1 REMOVE AND REPLACE EXTERIOR LIGHTS
2 OPEN TO STRUCTURE

CEILING TYPES

NOTE: NOT ALL KEYED NOTES APPEAR ON DRAWINGS

- PAINTED GYPSUM BOARD
- ACT-1
- ACM PANELS
- PAINTED GYPSUM BOARD W/REVEALS

LIGHTING FIXTURE TYPES

A	LED 2X4 RECESSED TROFFER LITHONIA LIGHTING 2X4 STACK
B	GRID MOUNTED LINEAR LIGHT 48" LITHONIA LIGHTING CLX
C	DOWNLIGHT 4" LITHONIA LIGHTINGS LDN4 ROUND
D	EXTERIOR LED LINEAR RECESSED ACCOLED ACL5 RECESSED - SEE RCP FOR LENGTH
D1	INTERIOR LED LINEAR RECESSED MARK SLOT 1 - SEE RCP FOR LENGTH
D2	LED LINEAR SUSPENDED WALL WASH MARK SLOT 1 PENDANT - SEE RCP FOR LENGTH
E	LED COVE LIGHT FINELITE HP-2 WS PERIMETER SLOT - SEE RCP FOR LENGTH
F	LED LINEAR SUSPENDED MICRO QUAD II SUSPENDED - SEE RCP FOR LENGTH
G	LED 2X2 RECESSED TROFFER LITHONIA LIGHTING 2X2 STACK
H	SURFACE MOUNTED EXT. LIGHT LUMINIS SN820/SN820C
J	WALL MOUNTED EXT. LIGHT LITHONIA LIGHTING WDGE2 LED

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

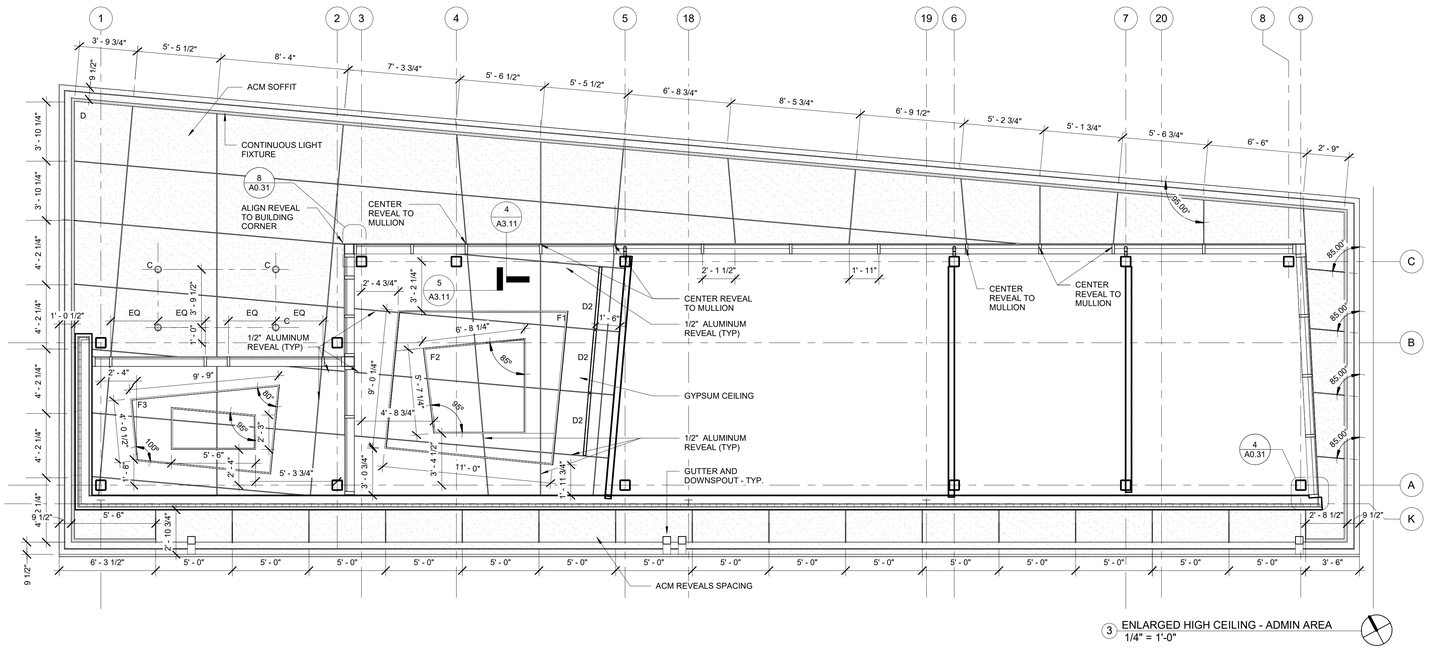
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

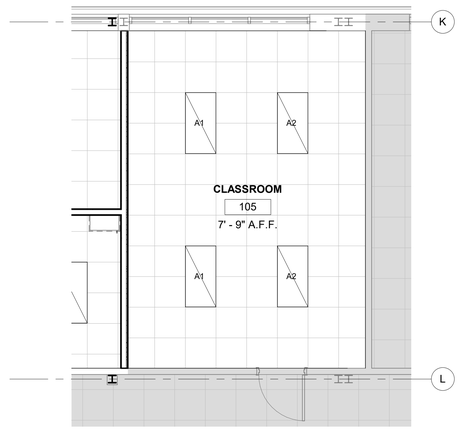
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
RCP L1

Sheet Number
A3.00



3 ENLARGED HIGH CEILING - ADMIN AREA
1/4" = 1'-0"



2 CLASSROOM 105 ENLARGED PLAN
1/4" = 1'-0"



1 ENLARGED CEILING PLAN - ADMIN AREA
1/4" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. REFER TO INTERIORS PACKAGE FOR LIGHT FIXTURE INFORMATION; COORDINATE WITH DESIGN DRAWINGS/SPECIFICATIONS.
3. REFER TO ELECTRICAL PLAN FOR ADDITIONAL LIGHT FIXTURE INFORMATION REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL LIGHTING.
4. COVER FLOORS AND FURNITURE WITH PROTECTIVE BARRIER AT ALL ROOMS WHERE IS WORK ABOVE CEILING.

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- NOT IN SCOPE

KEYED NOTES

1 REMOVE AND REPLACE EXTERIOR LIGHTS
2 OPEN TO STRUCTURE

CEILING TYPES

NOTE: NOT ALL KEYED NOTES APPEAR ON DRAWINGS

- PAINTED GYPSUM BOARD
- ACT-1
- ACM PANELS
- PAINTED GYPSUM BOARD W/REVEALS

LIGHTING FIXTURE TYPES

A	LED 2X4 RECESSED TROFFER	LITHONIA LIGHTING 2X4 STACK
B	GRID MOUNTED LINEAR LIGHT	48" LITHONIA LIGHTING CLX
C	DOWNLIGHT	4" LITHONIA LIGHTINGS LDN4 ROUND
D	EXTERIOR LED LINEAR RECESSED	ACCOLED AOLS RECESSED - SEE RCP FOR LENGTH
D1	INTERIOR LED LINEAR RECESSED	MARK SLOT 1 - SEE RCP FOR LENGTH
D2	LED LINEAR SUSPENDED WALL WASH	MARK SLOT 1 PENDANT - SEE RCP FOR LENGTH
E	LED COVE LIGHT	FINELITE HP-2 W9 PERIMETER SLOT - SEE RCP FOR LENGTH
F	LED LINEAR SUSPENDED	MICRO QUAD II SUSPENDED - SEE RCP FOR LENGTH
G	LED 2X2 RECESSED TROFFER	LITHONIA LIGHTING 2X2 STACK
H	SURFACE MOUNTED EXT. LIGHT	LUMINIS SN820/SN820C
J	WALL MOUNTED EXT. LIGHT	LITHONIA LIGHTING WDGE2 LED

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.K. CAMPBELL 23761 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

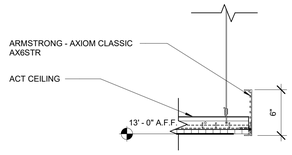
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

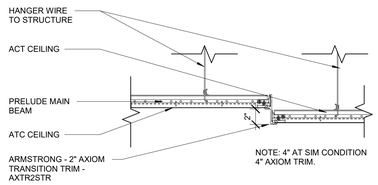
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
RCP ADMIN

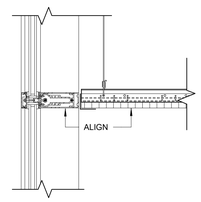
Sheet Number
A3.10



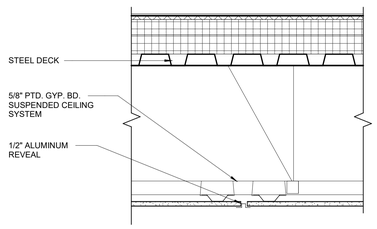
8 CEILING EDGE CONDITION
1 1/2" = 1'-0" 1 / A3.10



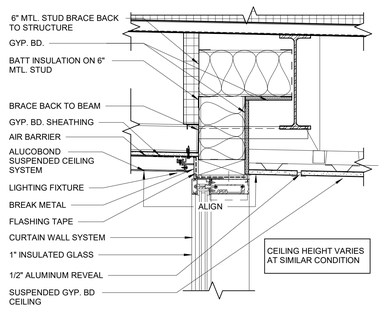
7 LOBBY CEILING JOINT DETAIL
1 1/2" = 1'-0" 1 / A3.10



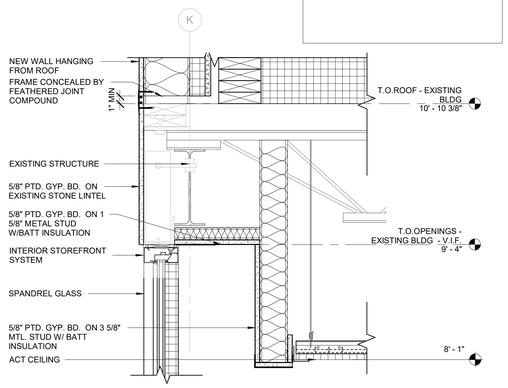
6 CEILING AT CURTAIN WALL MULLION
1 1/2" = 1'-0" CW-B / A0.30



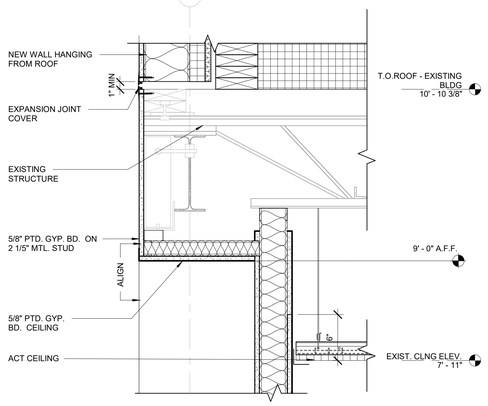
5 SLOPED HIGH GYP CEILING
1 1/2" = 1'-0" 3 / A3.10



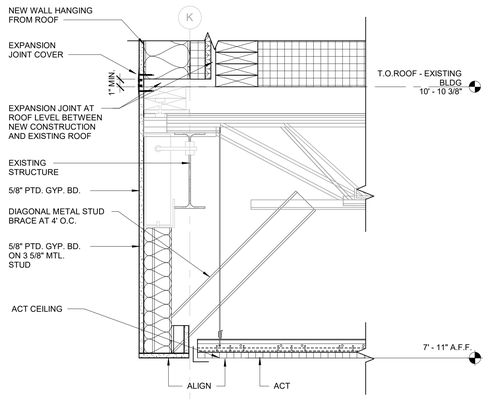
4 CEILING AT CURTAIN WALL HEAD
1 1/2" = 1'-0" CW-B / A0.30



3 VESTIBULE RCP DETAIL
1 1/2" = 1'-0" SF-A / A0.30



2 OFFICES SOFFIT DETAIL
1 1/2" = 1'-0" 1 / A3.10



1 RECEPTION LOW CEILING DETAIL
1 1/2" = 1'-0" 1 / A3.10

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.E. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

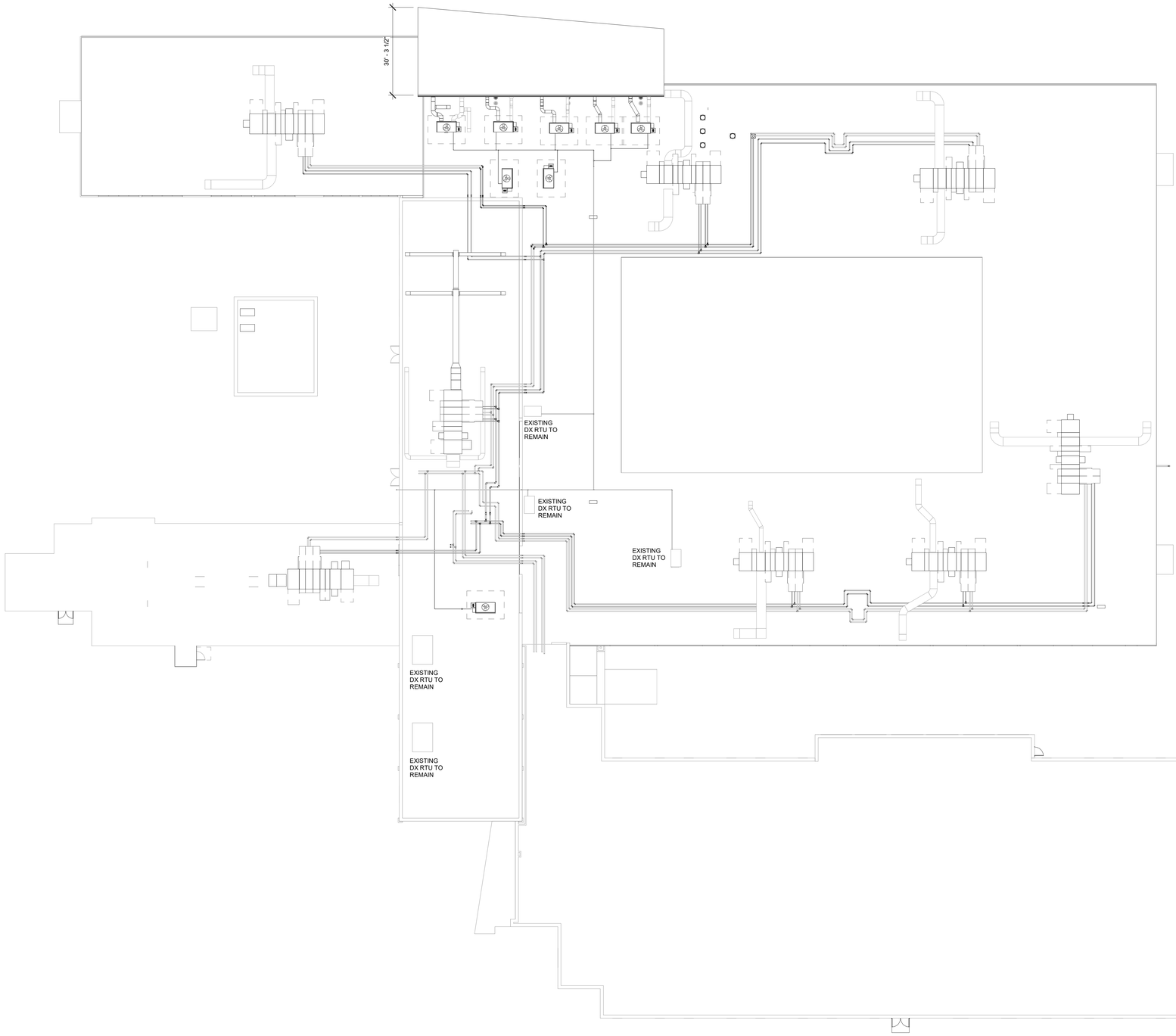
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
RCP SECTIONS

Sheet Number
A3.11



1 OVERALL ROOF PLAN
1/16" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. PROVIDE BUILDING WIDE SIGNAGE PACKAGE INCLUSIVE OF ALL ROOMS, DIRECTORY, WAY FINDING, STORM SHELTER, AND EVACUATION PLANS; REFER TO SPECIFICATIONS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGHT AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS.

LEGEND

NEW CONSTRUCTION
EXISTING TO REMAIN
NOT IN SCOPE

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

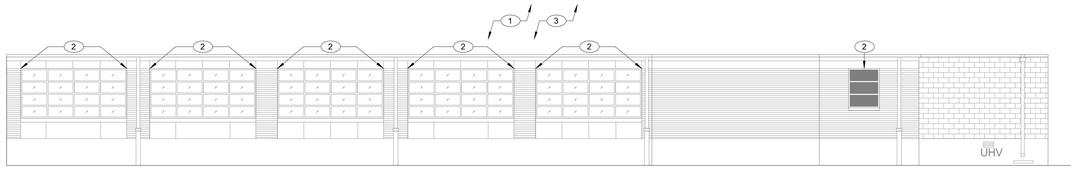
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

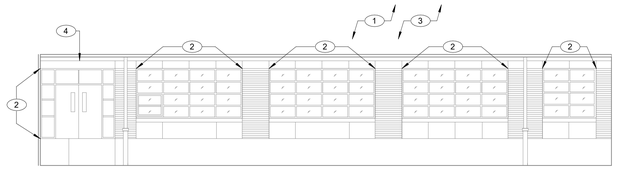
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
ROOF PLAN

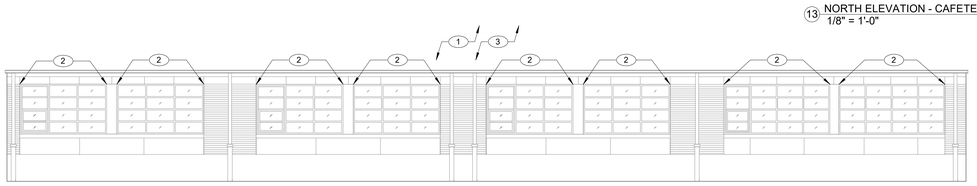
Sheet Number
A4.00



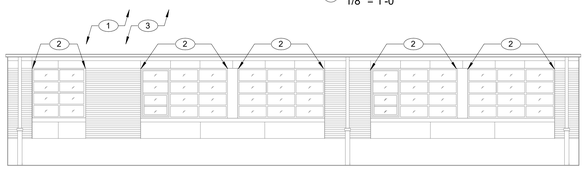
13 NORTH ELEVATION - CAFETERIA BUILDING
1/8" = 1'-0"



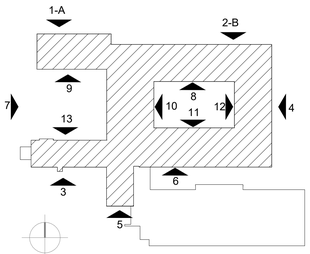
12 WEST ELEVATION - COUNTRYARD
1/8" = 1'-0"



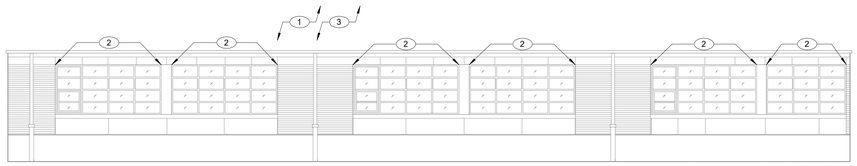
11 NORTH ELEVATION - COUNTRYARD
1/8" = 1'-0"



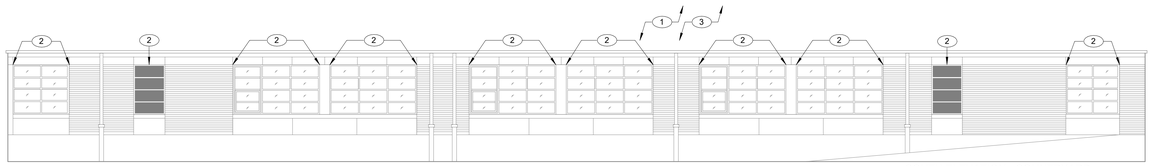
10 EAST ELEVATION -COUNTRYARD
1/8" = 1'-0"



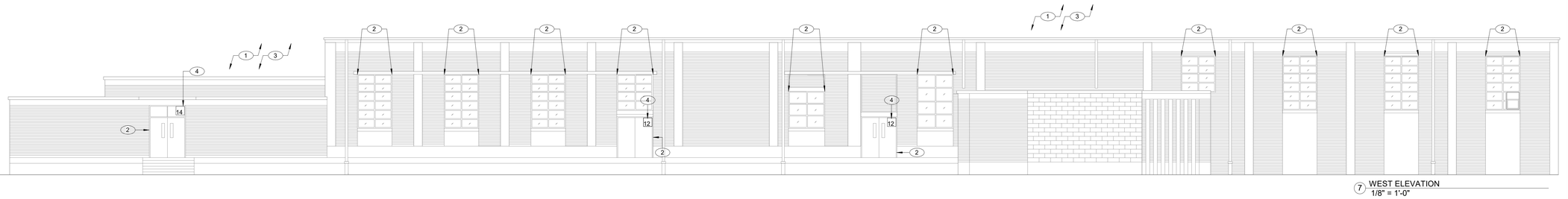
KEY PLAN



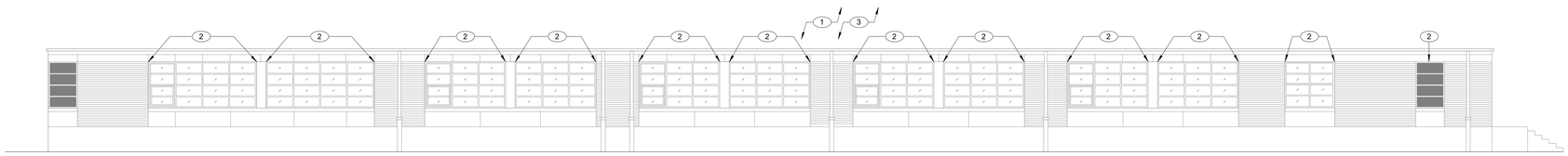
9 SOUTH ELEVATION - CLASSROOMS BUILDING
1/8" = 1'-0"



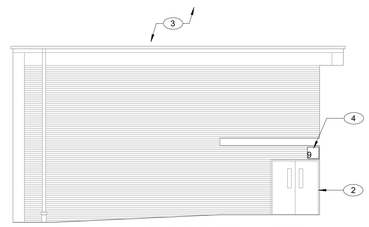
8 SOUTH ELEVATION - COUNTRYARD
1/8" = 1'-0"



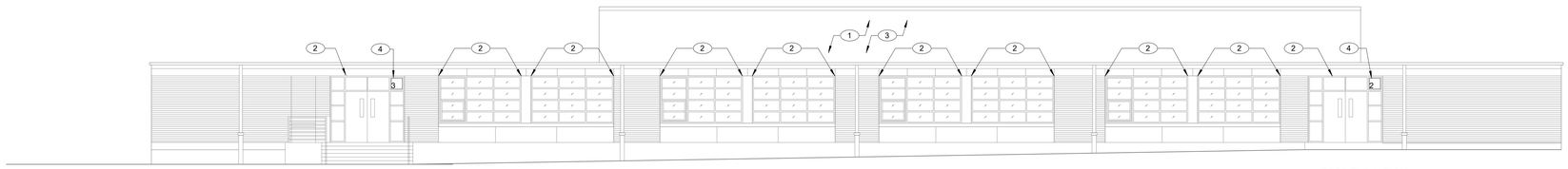
7 WEST ELEVATION
1/8" = 1'-0"



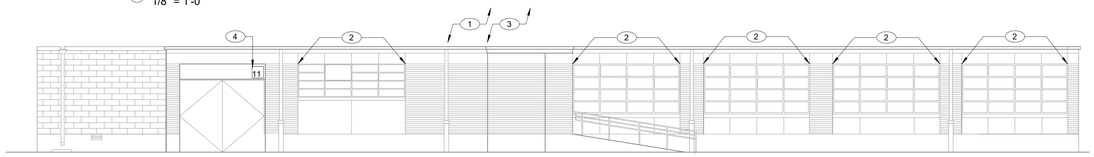
6 SOUTH ELEVATION - AREA B
1/8" = 1'-0"



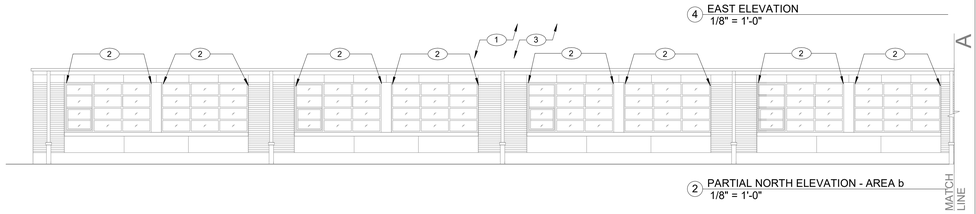
5 SOUTH ELEVATION - AUDITORIUM
1/8" = 1'-0"



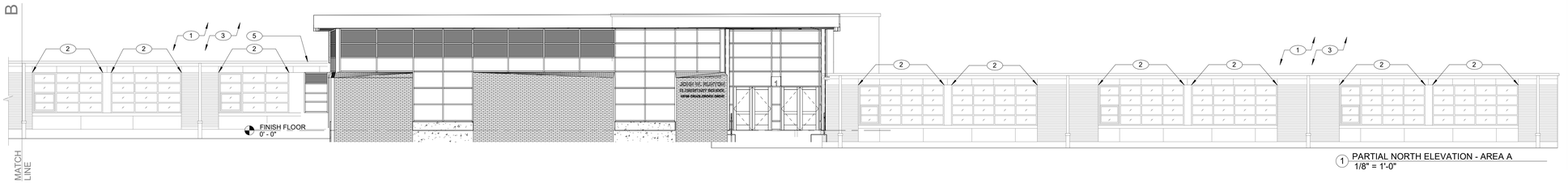
4 EAST ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION - CAFETERIA BUILDING
1/8" = 1'-0"



2 PARTIAL NORTH ELEVATION - AREA b
1/8" = 1'-0"



1 PARTIAL NORTH ELEVATION - AREA A
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. REFER TO INTERIORS PACKAGE FOR SPECIFIC FINISH INFORMATION.

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON DRAWINGS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS, DOWNSPOUTS, ENTRY DOORS, HANDRAILS
2 REPLACE PERIMETER SEALANT AND BACKER ROD
3 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS
4 NEW BUILDING SIGNAGE
5 COORDINATE ROOFING PATCHING AND GUTTER REPAIR WITH ROOFING DRAWINGS

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.E. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

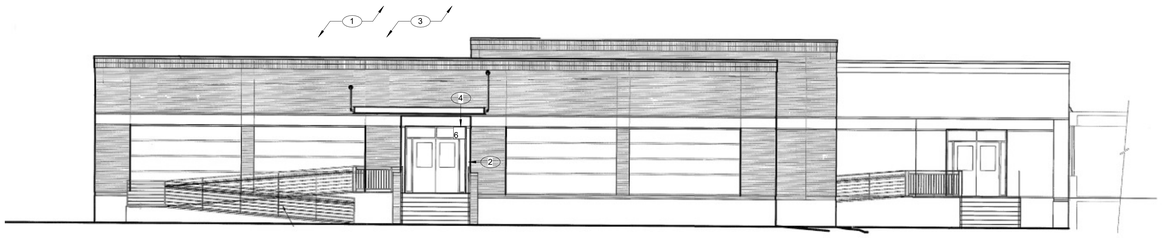
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

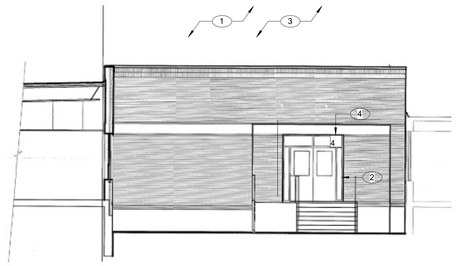
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
EXTERIOR ELEV

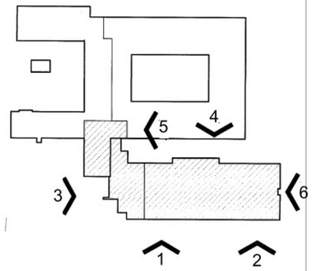
Sheet Number
A5.00



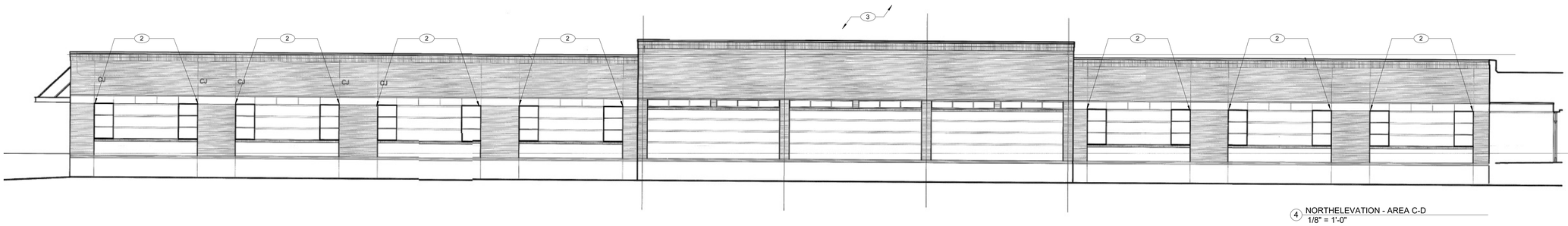
6 EAST ELEVATION - AREA D
1/8" = 1'-0"



5 EAST ELEVATION - AREA C
1/8" = 1'-0"



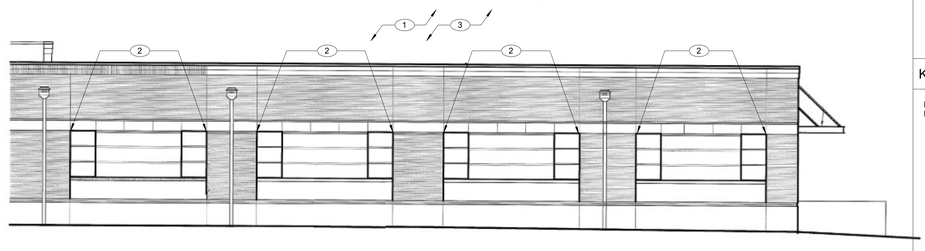
KEY PLAN
SCALE: N.T.S.



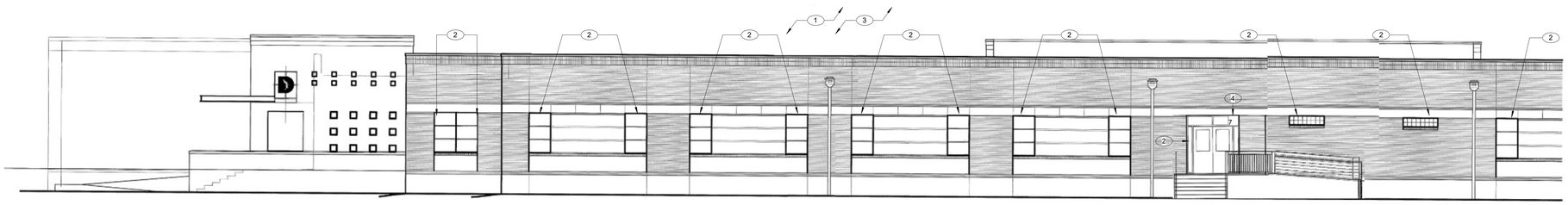
4 NORTHELEVATION - AREA C-D
1/8" = 1'-0"



3 WEST ELEVATION - AREA C
1/8" = 1'-0"



2 PARTIAL SOUTH ELEVATION - AREA D
1/8" = 1'-0"



1 PARTIAL SOUTH ELEVATION - AREA C-D
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS.
2. REFER TO INTERIORS PACKAGE FOR SPECIFIC FINISH INFORMATION.

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON DRAWINGS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS, DOWNSPOUTS, ENTRY DOORS, HANDRAILS
2 REPLACE PERIMETER SEALANT AND BACKER ROD
3 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS
4 NEW BUILDING SIGNAGE
5 COORDINATE ROOFING PATCHING AND GUTTER REPAIR WITH ROOFING DRAWINGS

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
EXTERIOR ELEV

Sheet Number
A5.01

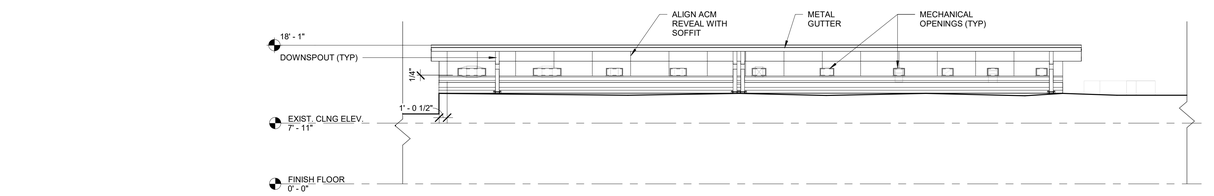
CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

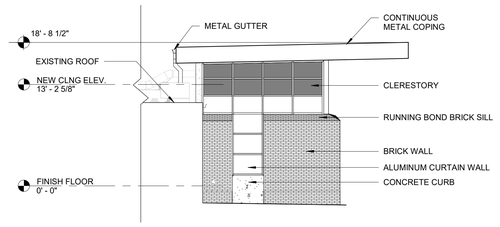
REGISTERED ARCHITECT
M.E. CAMPBELL
32701
STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

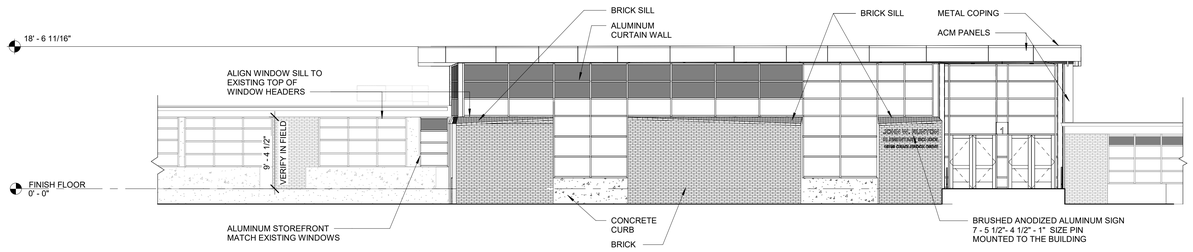
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS



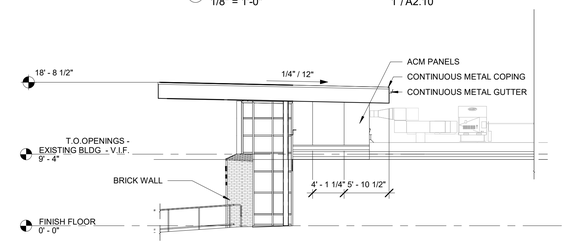
4 SOUTH ELEVATION - ADMIN EXPANSION
1/8" = 1'-0" 1 / A2.10



3 EAST ELEVATION - ADMIN EXPANSION
1/8" = 1'-0" 1 / A2.10



1 NORTH ELEVATION - ADMIN EXPANSION
1/8" = 1'-0" 1 / A2.10



2 WEST ELEVATION - ADMIN EXPANSION
1/8" = 1'-0" 1 / A2.10

5 BRICK SIDE WALL
1/8" = 1'-0"

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
EXTERIOR ELEV

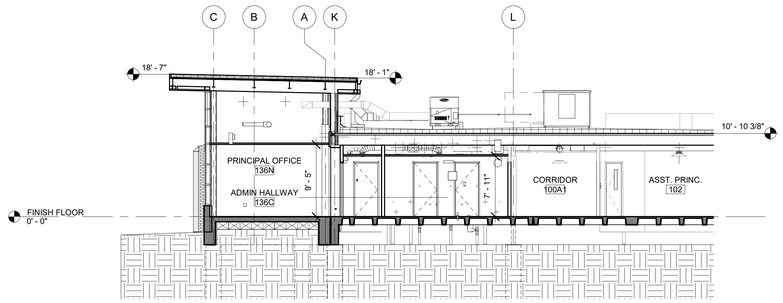
Sheet Number
A5.03

CITY OF DALLAS STAMP

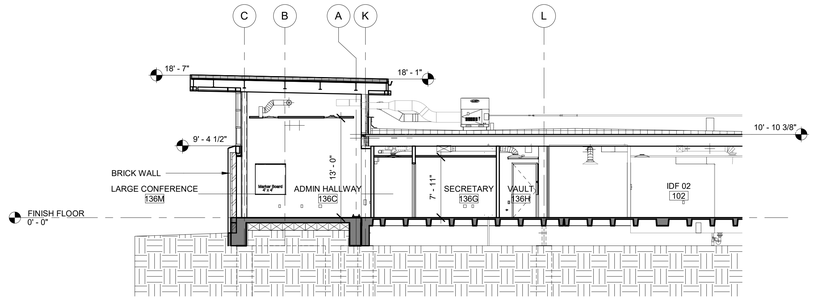
CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.E. CAMPBELL 23791 STATE OF TEXAS

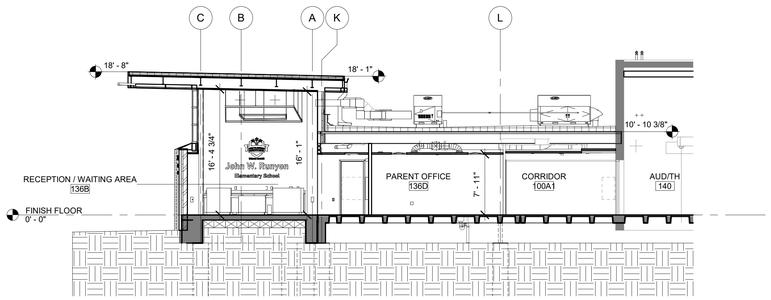
DATE:10.22.2025
EXP: 12/2025



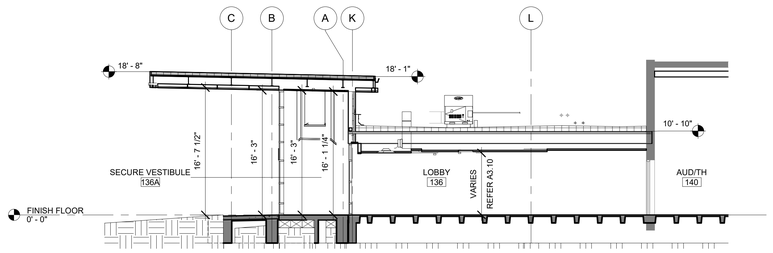
5 BUILDING SECTION 5
1/8" = 1'-0" 1 / A2.01



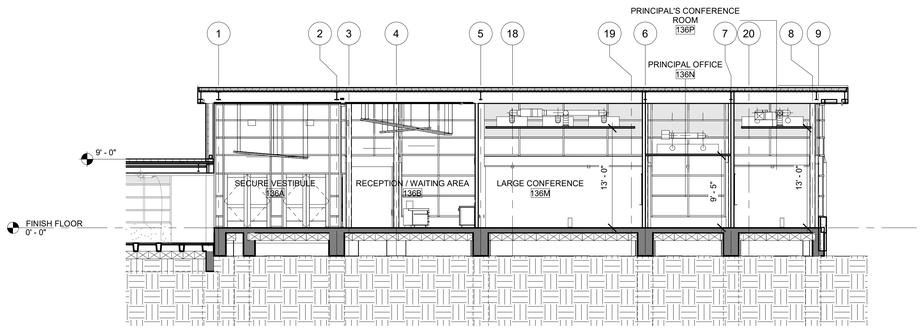
4 BUILDING SECTION 4
1/8" = 1'-0" 1 / A2.01



3 BUILDING SECTION 3
1/8" = 1'-0" 1 / A2.01



2 BUILDING SECTION 2
1/8" = 1'-0" 1 / A2.01



1 BUILDING SECTION 1
1/8" = 1'-0" 1 / A2.01

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

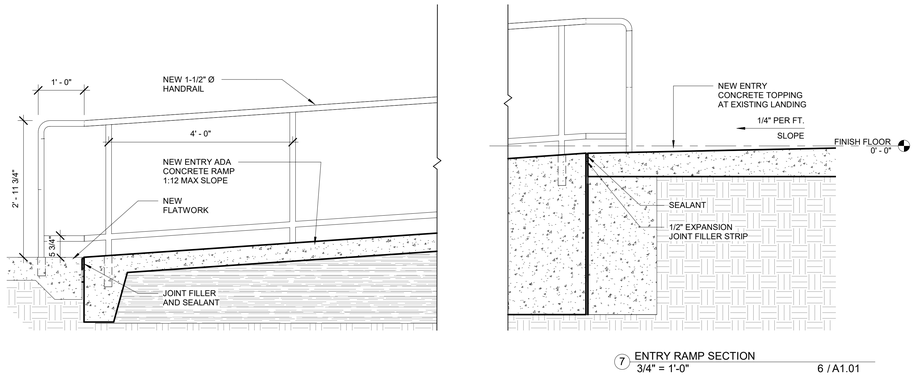
© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

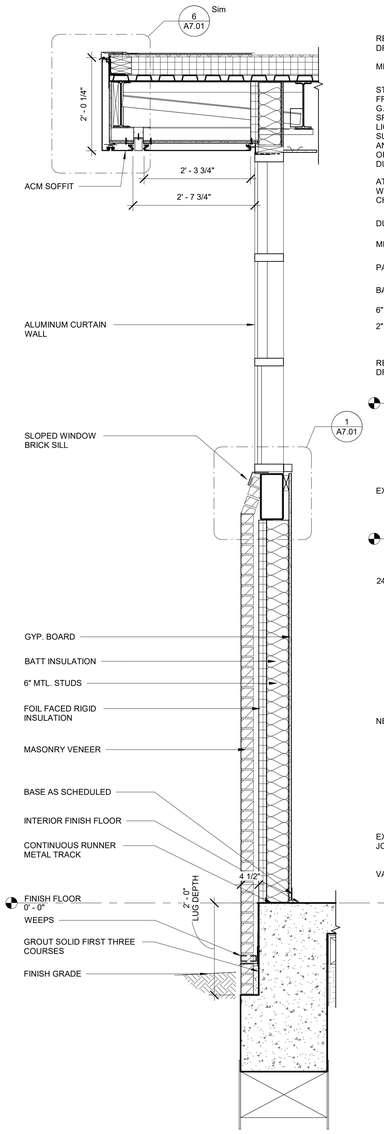
Sheet Title
BLDG SECTIONS

Sheet Number
A6.00

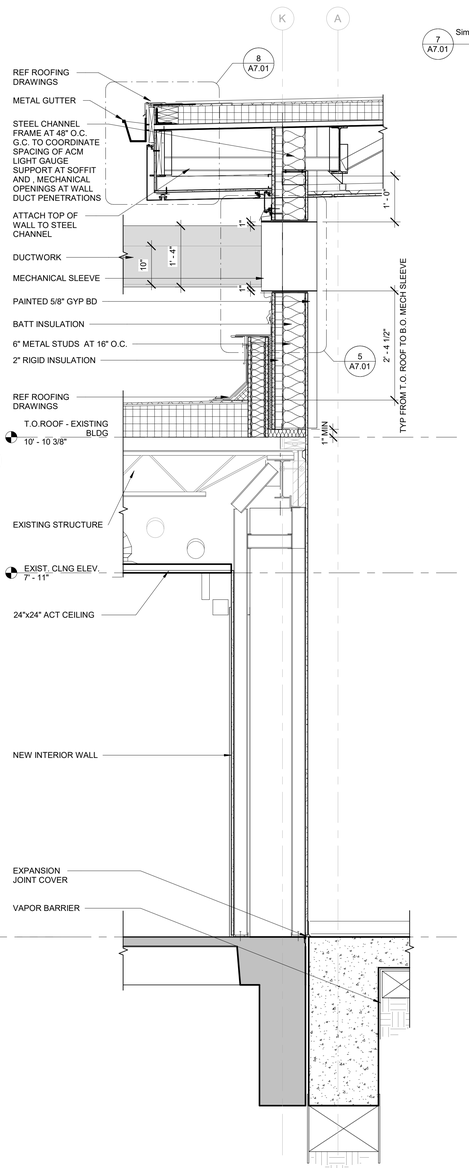
CITY OF DALLAS STAMP



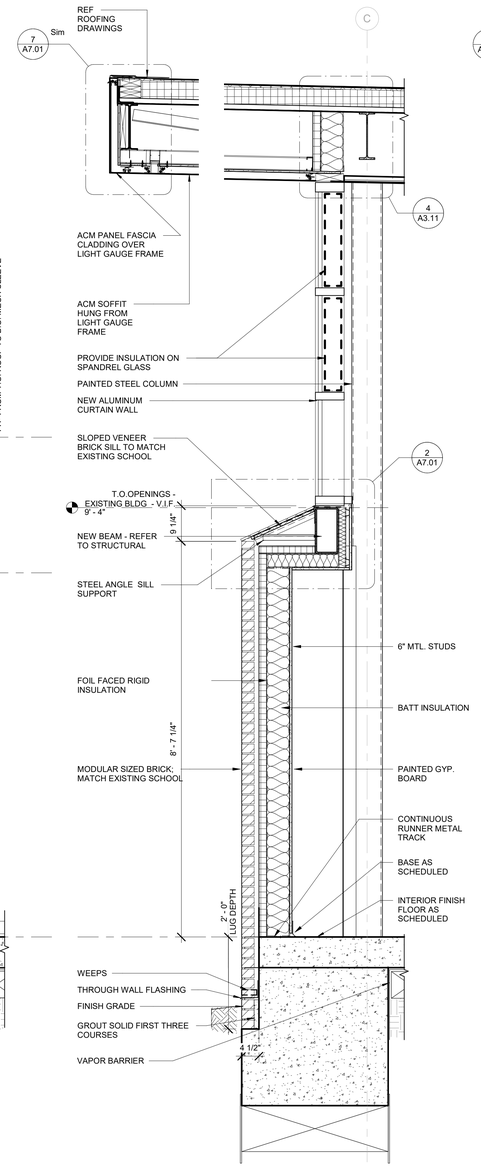
7 ENTRY RAMP SECTION
3/4" = 1'-0" 6 / A1.01



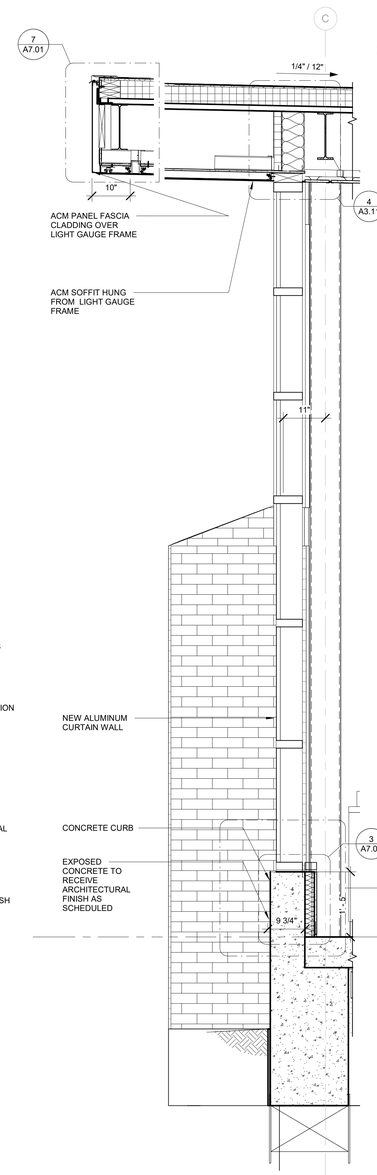
6 SIDE FACADE BRICK WALL SECTION
3/4" = 1'-0" 1 / A2.10



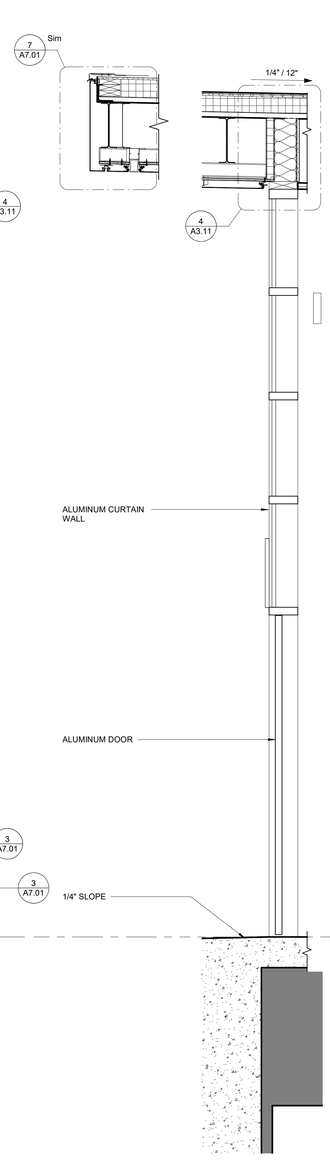
5 BACK WALL ABOVE EXISTING ROOF
3/4" = 1'-0" 1 / A2.10



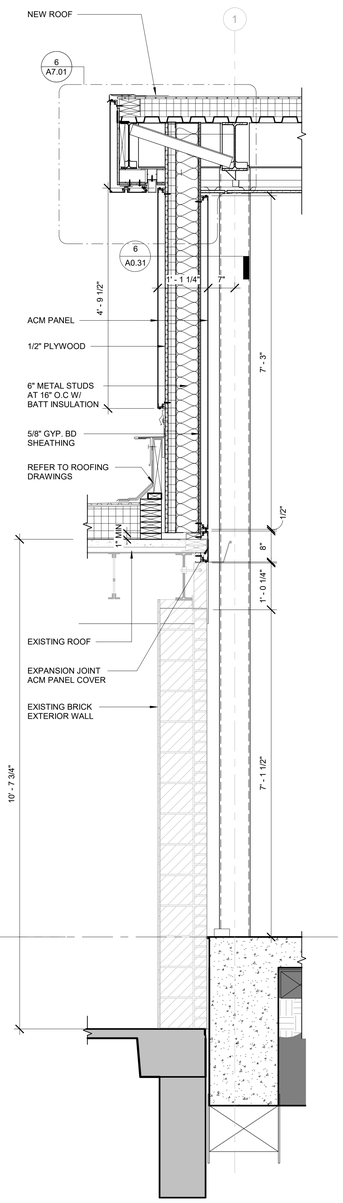
4 ADMINISTRATION RECOVE WALL
3/4" = 1'-0" 1 / A2.10



3 ADMINISTRATION CURTAIN WALL
3/4" = 1'-0" 1 / A2.10



2 VESTIBULE DOORS SECTION
3/4" = 1'-0" 1 / A2.10



1 EXTERIOR HIGH WALL ABOVE EXISTING WALL
3/4" = 1'-0" 1 / A2.10

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMPBELL 23781 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
WALL SECTIONS

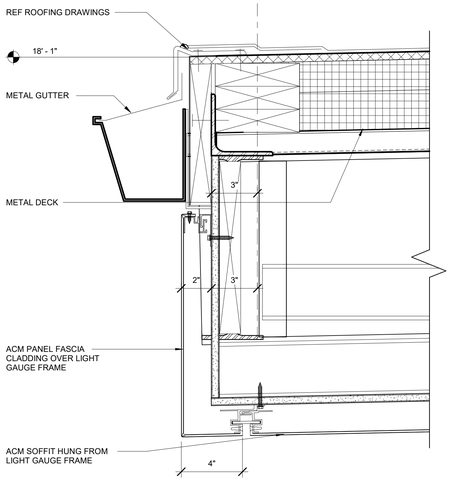
Sheet Number
A7.00

CITY OF DALLAS STAMP

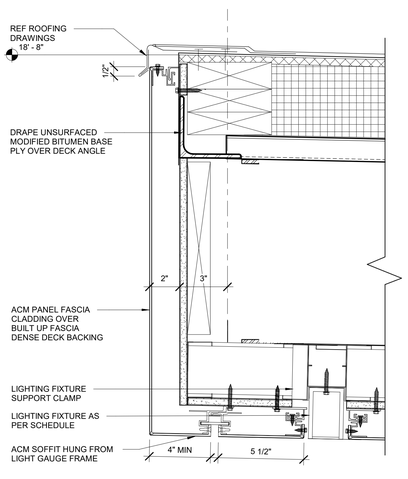
CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.E. CAMPBELL 23791 STATE OF TEXAS

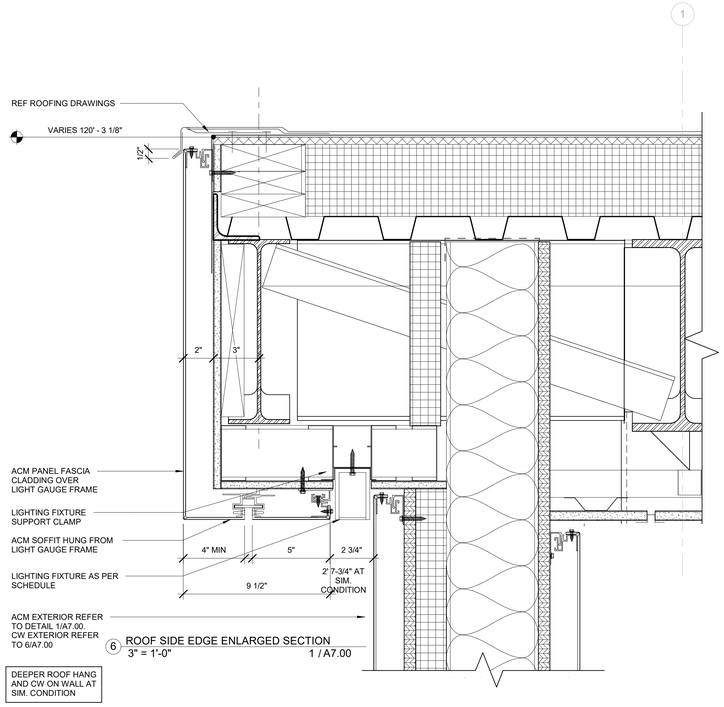
DATE:10.22.2025
EXP: 12/2025



8 ROOF BACK EDGE ENLARGED SECTION
3" = 1'-0" 5 / A7.00

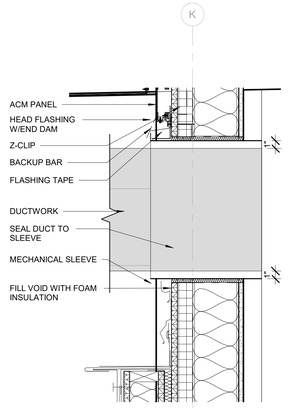


7 ROOF FRONT EDGE ENLARGED SECTION
3" = 1'-0" 2 / A7.00

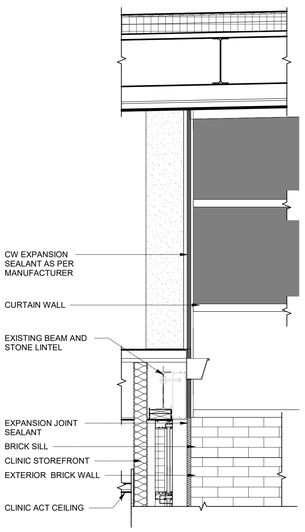


6 ROOF SIDE EDGE ENLARGED SECTION
3" = 1'-0" 1 / A7.00

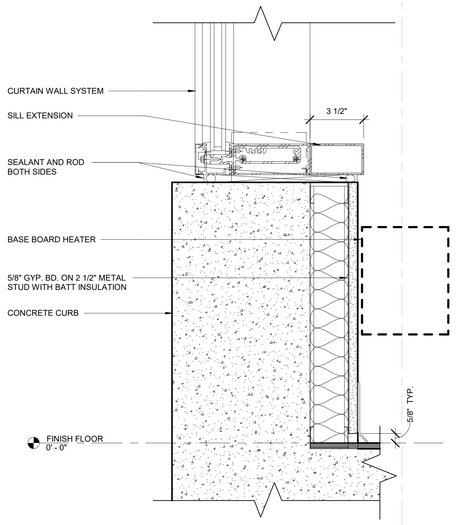
DEEPER ROOF HANG AND CW ON WALL AT SIM. CONDITION



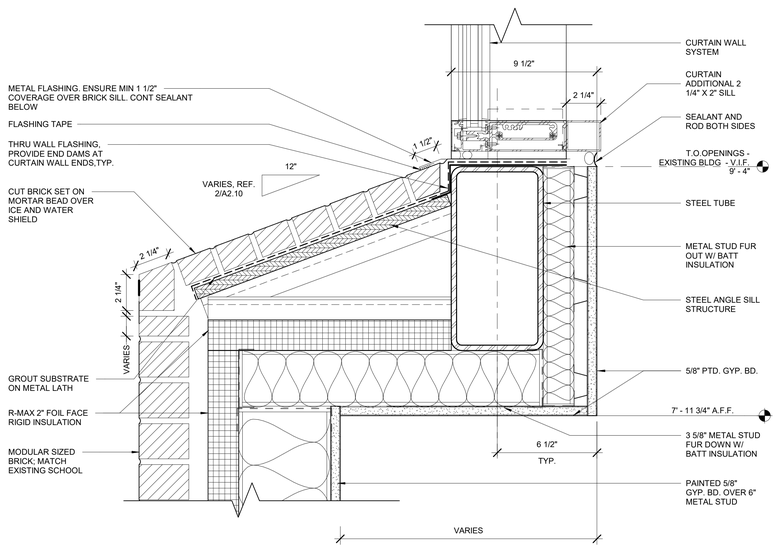
5 TYP MECH OPENING ENLARGED SECTION
1 1/2" = 1'-0" 5 / A7.00



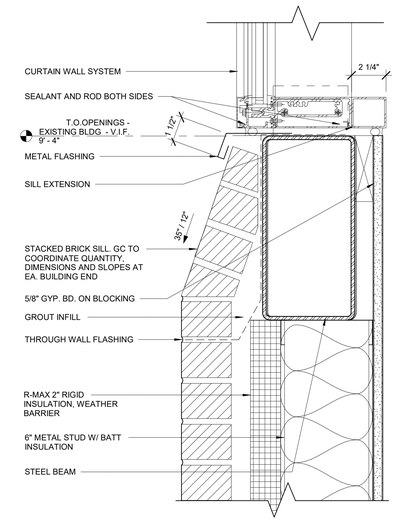
4 NURSE STOREFRONT SECTION
3/4" = 1'-0" 2 / A2.10



3 CURTAIN WALL SILL ABOVE CONCRETE
3" = 1'-0" CW-B / A0.30



2 CEILING AT BRICK WALL RECOVE
3" = 1'-0" CW-B / A0.30



1 CURTAIN WALL SILL AT SIDE WALL
3" = 1'-0" CW-C / A0.30

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
SECTION DTLS

Sheet Number
A7.01

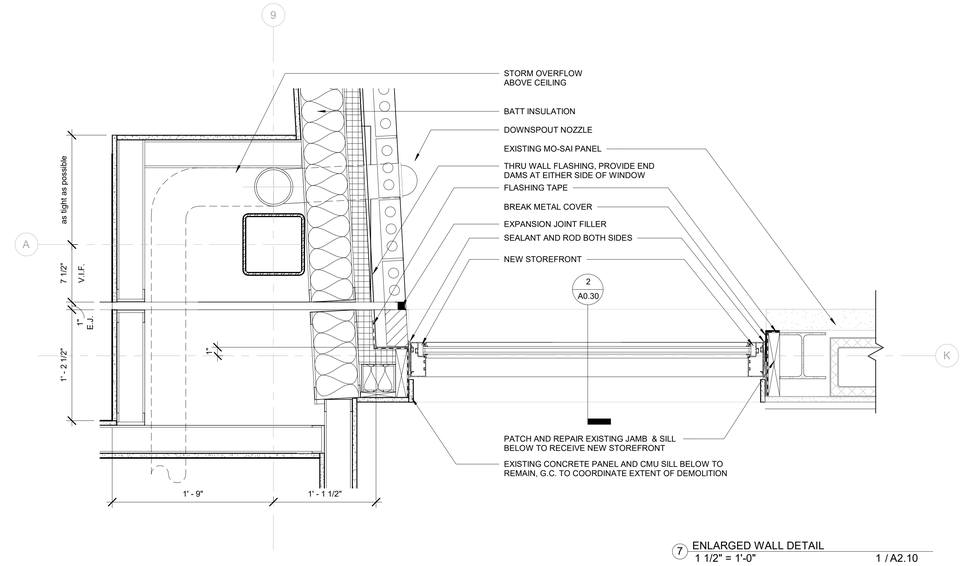
CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

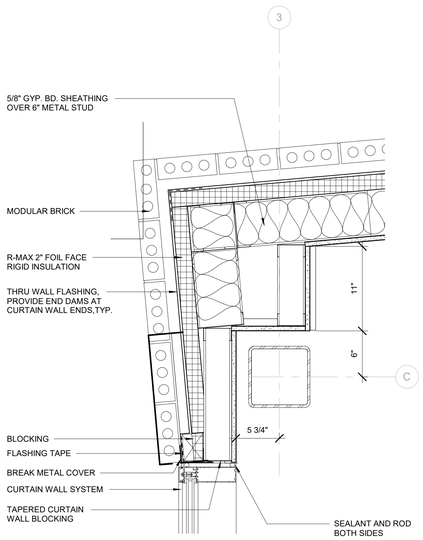
ISSUED FOR REVIEW
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF E.J. TEXAS REGISTERED ARCHITECT
DATE 10/22/2025

REGISTERED ARCHITECT N.C. CAMPBELL 23701 STATE OF TEXAS

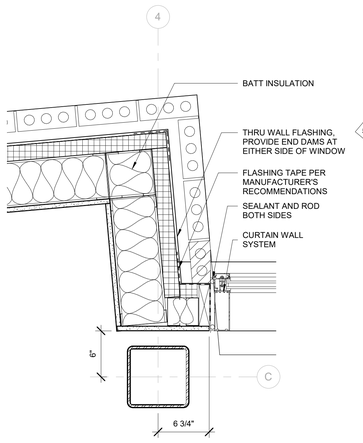
EXP: 12/2025



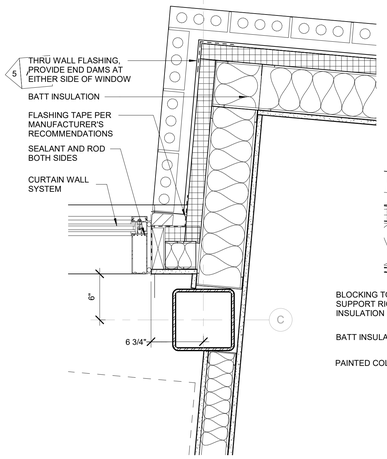
7 ENLARGED WALL DETAIL
1 1/2" = 1'-0" 1 / A2.10



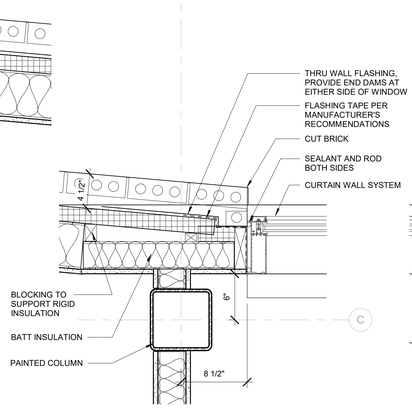
6 ENLARGED WALL DETAIL
1 1/2" = 1'-0" 1 / A2.10



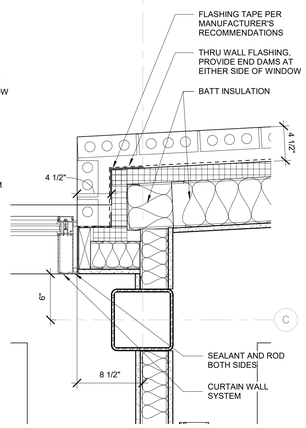
5 ENLARGED WALL DETAIL
1 1/2" = 1'-0" 1 / A2.10



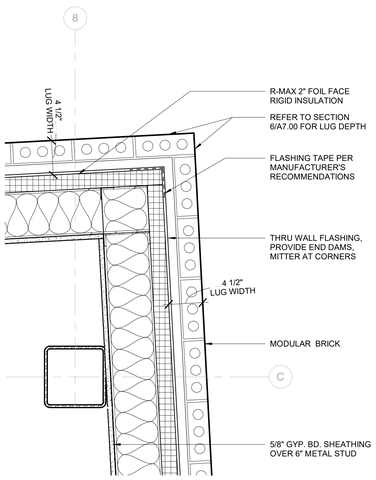
4 ENLARGED WALL DETAIL
1 1/2" = 1'-0" CW-B / A0.30



3 ENLARGED WALL DETAIL
1 1/2" = 1'-0" CW-B / A0.30



2 ENLARGED WALL DETAIL
1 1/2" = 1'-0" CW-B / A0.30



1 ENLARGED WALL DETAIL
1 1/2" = 1'-0" 1 / A2.10

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

100% CONSTRUCTION DRAWINGS

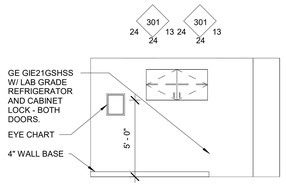
© CaCo Architecture LLC 2023

Project Number
2022.012

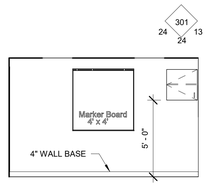
Issue Date
10.22.2025
Revised:

Sheet Title
PLAN DTLS

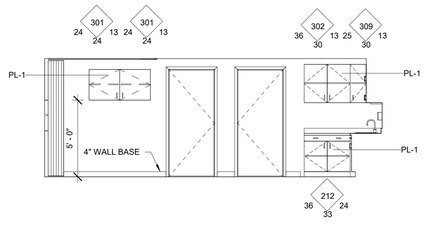
Sheet Number
A7.02



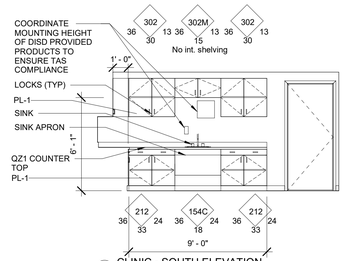
21 TRSTING ROOM - SOUTH ELEVATION
1/4" = 1'-0" 1 / A2.10



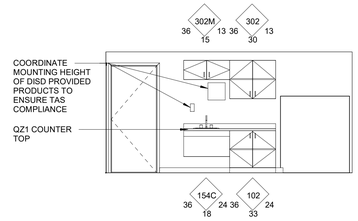
20 TESTING ROOM - NORTH ELEVATION
1/4" = 1'-0" 1 / A2.10



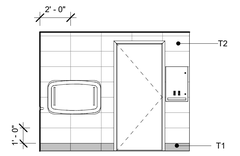
19 CLINIC - EAST ELEVATION
1/4" = 1'-0" 1 / A2.10



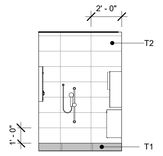
18 CLINIC - SOUTH ELEVATION
1/4" = 1'-0" 1 / A2.10



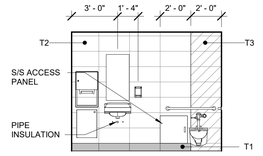
17 WORK AREA ELEVATION
1/4" = 1'-0" 1 / A2.10



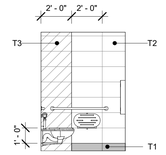
16 CLINIC RR- EAST ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10



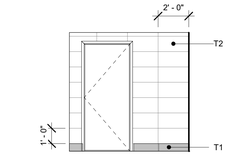
15 CLINIC RR- SOUTH ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10



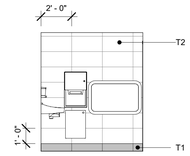
14 CLINIC RR- WEST ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10



13 CLINIC RR- NORTH ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10

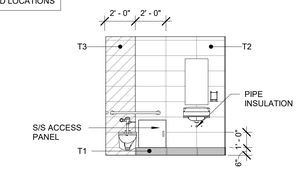


12 ADMIN RR - WEST ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10

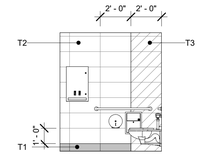


11 ADMIN RR - SOUTH ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10

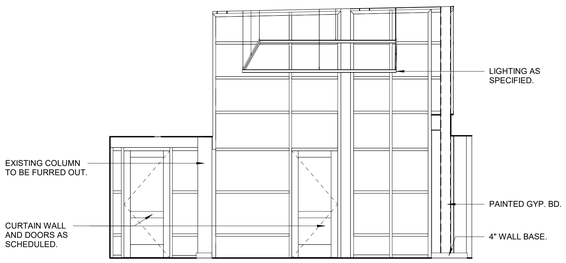
NOTE: REFER TO SHEET A0.06 FOR MOUNTING HEIGHTS AND LOCATIONS



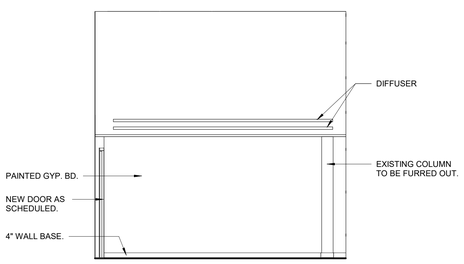
10 ADMIN RR - EAST ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10



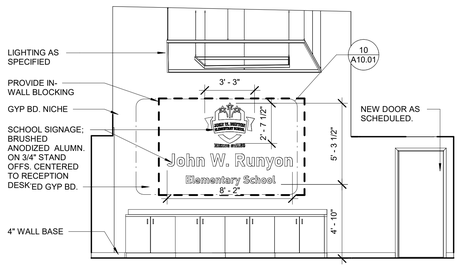
9 ADMIN RR - NORTH ELEVATION - O.H. SIM
1/4" = 1'-0" 1 / A2.10



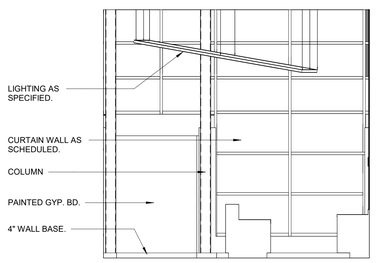
8 RECEPTION - WEST ELEVATION
1/4" = 1'-0" 1 / A2.10



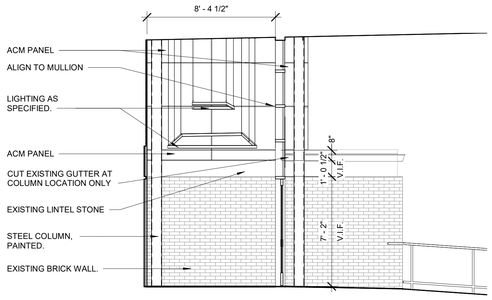
7 RECEPTION - SOUTH ELEVATION
1/4" = 1'-0" 1 / A2.10



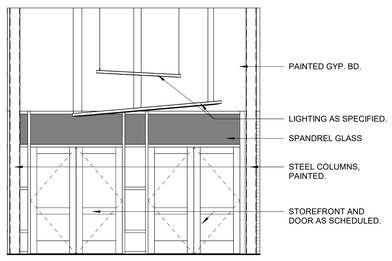
6 RECEPTION - EAST ELEVATION BACK WALL
1/4" = 1'-0" 1 / A2.10



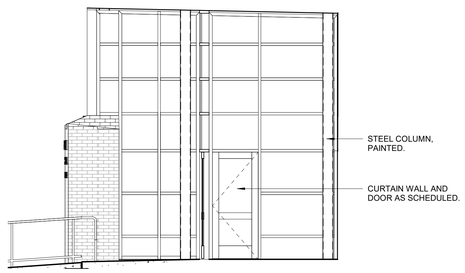
5 RECEPTION - NORTH ELEVATION
1/4" = 1'-0" 1 / A2.10



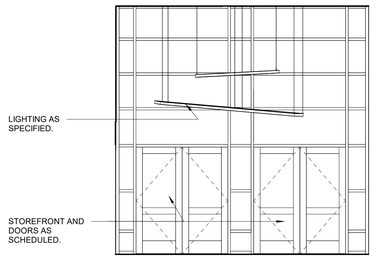
4 VESTIBULE - WEST ELEVATION
1/4" = 1'-0" 1 / A2.10



3 VESTIBULE - SOUTH ELEVATION
1/4" = 1'-0" 1 / A2.10



2 VESTIBULE - EAST ELEVATION
1/4" = 1'-0" 1 / A2.10

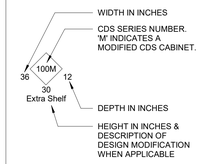


1 VESTIBULE - NORTH ELEVATION
1/4" = 1'-0" 1 / A2.10

CITY OF DALLAS STAMP

GENERAL NOTES

NOTE: THESE ELEVATIONS USE THE CDS NUMBERING SYSTEM. REFER TO NAAWS DOCUMENTATION FOR MORE INFORMATION.



1. CABINET ELEVATIONS ON CONTRACT DOCUMENTS SHALL GOVERN ON ANY CONFLICT BETWEEN ELEVATIONS AND CDS NUMBER.
2. CABINET DIMENSIONS INDICATE THE NOMINAL OUTSIDE DIMENSION (FLOOR TO TOP OF COUNTERTOP FOR HEIGHT AND FACE OF FINISHED WALL TO FACE OF CABINET DOOR FOR DEPTH). MANUFACTURERS ARE PERMITTED A TOLERANCE OF PLUS/MINUS 1/2" IN WIDTH ONLY.
3. WHEN DESIGNS OTHER THAN THOSE PROVIDED FOR IN THE CDS SYSTEM ARE DESIRED, THEY MAY BE INDICATED BY SELECTING THE CDS NUMBER MOST CLOSELY REPRESENTING THE DESIRED DESIGN, FOLLOWED BY THE LETTER "M" AND A DESCRIPTION OR ILLUSTRATION OF THE DESIGN MODIFICATION.
4. 100 OR 200 SERIES CABINETS MAY BE CONVERTED INTO MOVEABLE CABINETS BY PREFIXING A "7" TO THE NUMBER. (EXAMPLE: 7-102-36"X 30"X 18" [7-102-914 MM X 762 MM X 457 MM]).
5. MOVEABLE CABINETS SHALL BE EQUIPPED WITH ADEQUATE APPROVED CASTERS FOR THE INTENDED LOAD CAPACITY.
6. CDS #'S 728, 729, 735, 736, 737, 738, AND 739 REQUIRE METAL ANGLE REINFORCED CORNERS.
7. CARTS AND ROLLING TALL STORAGE CABINETS WITH DOORS, LACKING ANY HORIZONTAL AND/OR VERTICAL STABILIZING DIVIDERS, REQUIRE A DIAPHRAGM BOTTOM; SPECIFICALLY, CDS #'S 702, 712, 716, 722, 743,744, 746, 747, 750, AND 751.
8. WARDROBE CABINETS (500 SERIES) WITH DOORS REQUIRE A FRAMED MIRROR ON ONE DOOR, AND CABINETS # 533 AND 534 REQUIRE A PAPER ROLLER/CUTTER AND SLIDE OUT TILTING PAPER SHELVES, U.N.O.
9. CART STORAGE CABINETS ARE REQUIRED TO HAVE HARDWOOD SIDE GUIDES, SPECIFICALLY CDS #'S 160, 161, AND 162.
10. CERAMICS DRYING CABINETS ARE REQUIRED TO HAVE GALVANIZED METAL FRAME SHELVES WITH WIRE MESH, SPECIFICALLY CDS #'S 198 199. AND 459.
11. FILE DRAWERS REQUIRE FULL EXTENSION SLIDES AND A FILE HANGING SYSTEM, SPECIFICALLY CDS #'S 223, 224, 230, 231, 240, 242, 253, 255, 531, 532, AND 533.
12. WARDROBE CABINETS ARE REQUIRED TO HAVE A SHELF, POLE, AND FRAMED MIRROR (WITHOUT PIN TRAY) WHEN CLOSED WITH HINGED DOORS, SPECIFICALLY CDS #'S 501, 511, 512, 522, 530, 531, 532, AND 552, U.N.O.
13. WARDROBE CABINETS ARE REQUIRED TO HAVE A ROLL PAPER DISPENSER/CUTTER, SPECIFICALLY CDS #'S 533 AND 534, U.N.O.
14. DRAWER FRONTS TO BE BOTH GLUED AND SCREWED.
15. JOINTS: CAULKED WITH CLEAR SEALANT AT BACK SPLASH, END FILLERS, AND WALLS.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMMACK 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

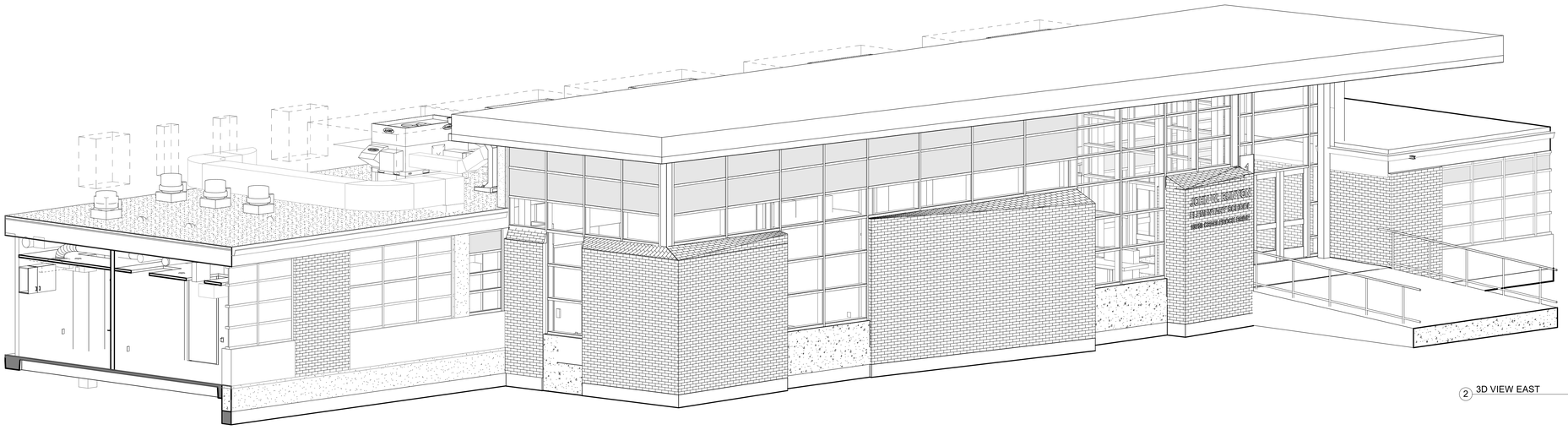
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

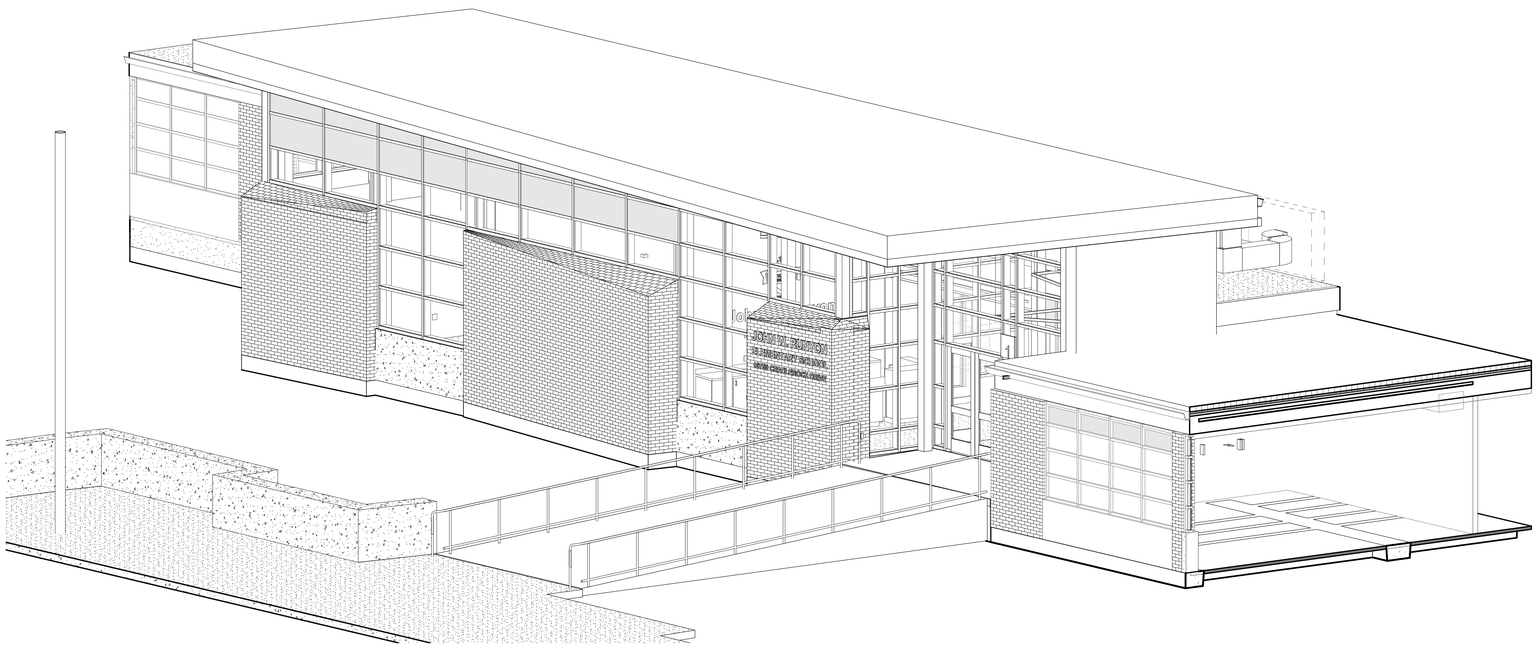
Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
INTERIOR ELEV

Sheet Number
A8.00



2 3D VIEW EAST



1 3D VIEW WEST

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.E. CAMPBELL 23761 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

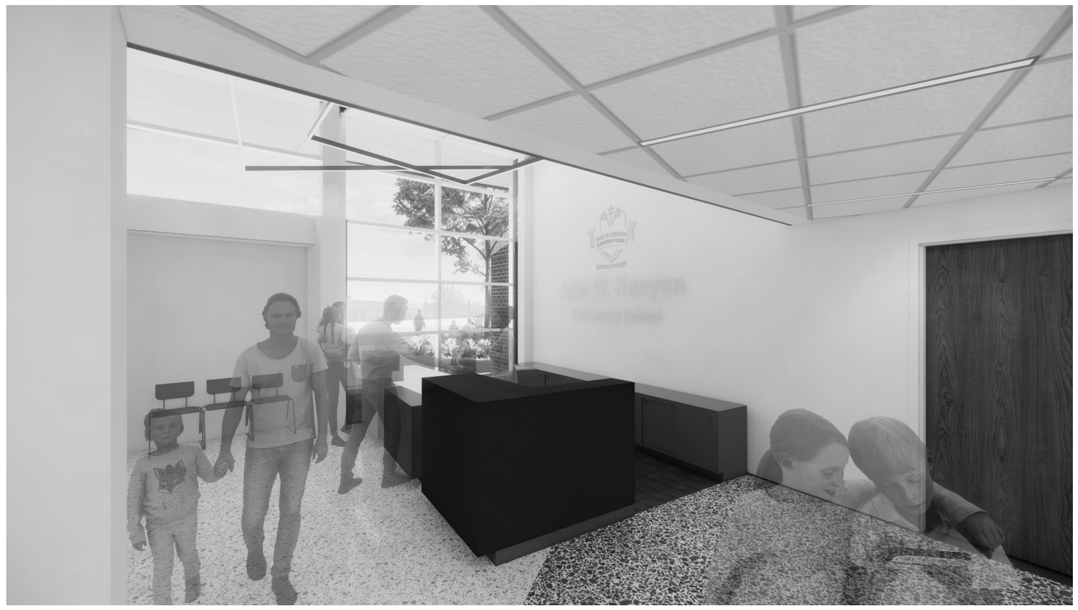
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
3D VIEWS

Sheet Number
A9.00







CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT N.C. CAMPBELL 23701 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

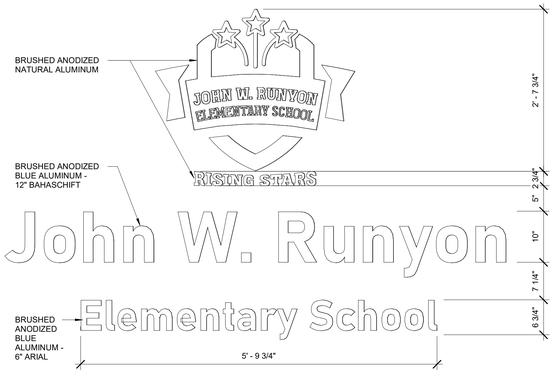
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

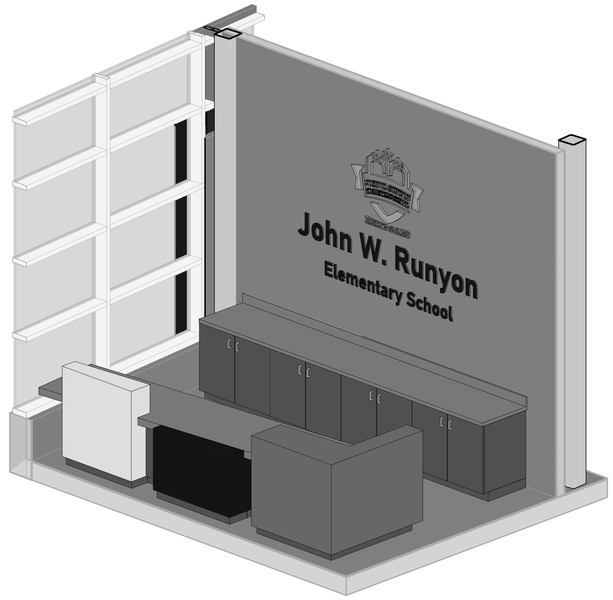
Project Number
2022.012
Issue Date
10.22.2025
Revised:

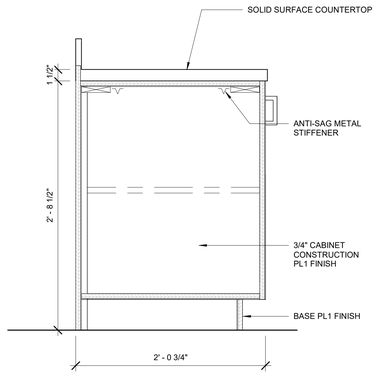
Sheet Title
3D VIEWS

Sheet Number
A9.01

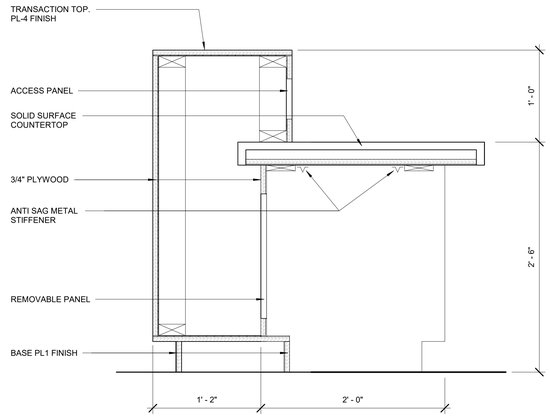


10 SCHOOL SIGNAGE AT RECEPTION
1" = 1'-0" 6 / A8.00

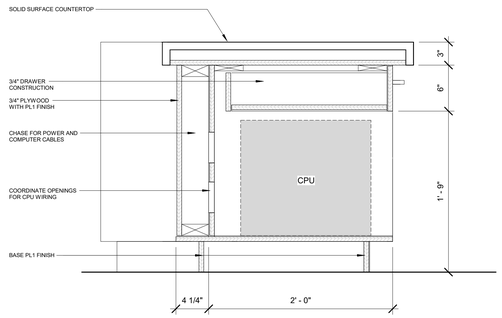




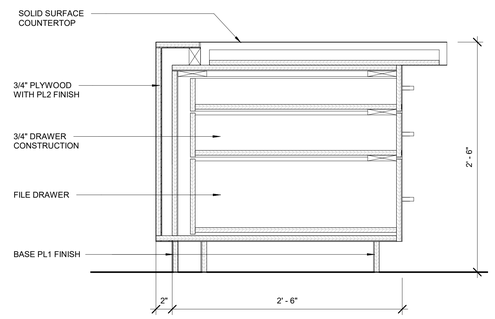
9 RECEPTION DESK - SECTION 4
1 1/2" = 1'-0"



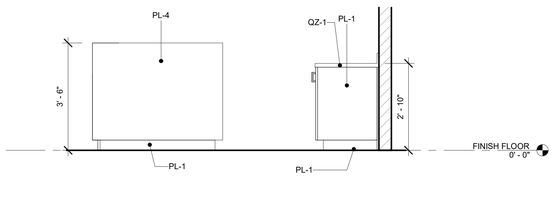
8 RECEPTION DESK SECTION
1 1/2" = 1'-0"



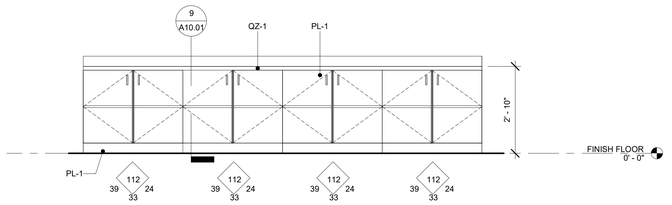
7 RECEPTION DESK SECTION
1 1/2" = 1'-0"



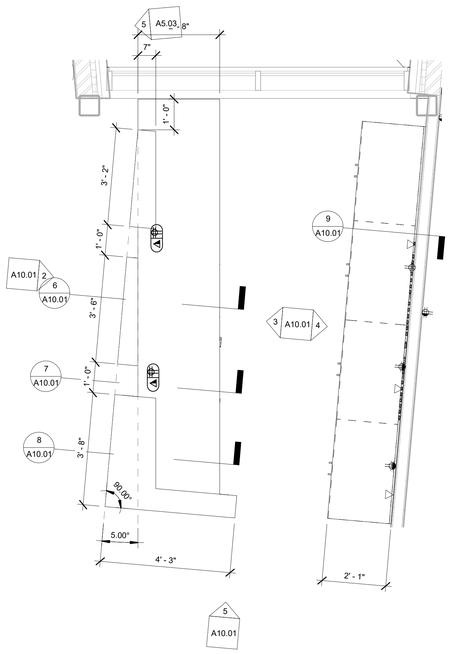
6 RECEPTION DESK SECTION
1 1/2" = 1'-0"



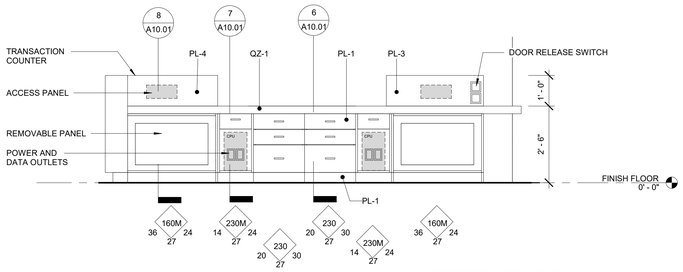
5 RECEPTION DESK - SIDE
1/2" = 1'-0"



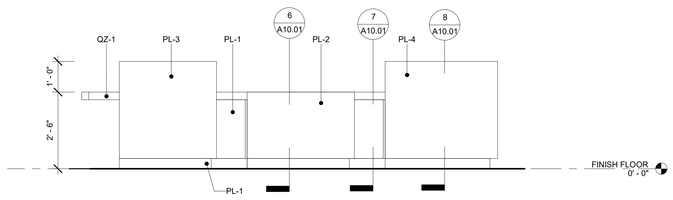
4 RECEPTION DESK - STORAGE
1/2" = 1'-0"



1 RECEPTION DESK - TOP VIEW
1/2" = 1'-0"



3 RECEPTION DESK - BACK
1/2" = 1'-0"



2 RECEPTION DESK - FRONT
1/2" = 1'-0"

CITY OF DALLAS STAMP

1. ALL MILLWORK TO COMPLY WITH NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS - 3.1
2. SUBSTRATE MATERIAL TO BE:

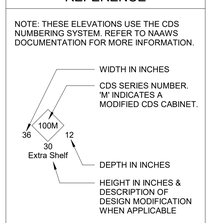
   DRY AREAS:
   3/4" LOW/NO FORMALDEHYDE MEDIUM DENSITY FIBERBOARD

   AREAS EXPOSE TO MOISTURE:
   3/4" MARINE GRADE OR A/C/ FIR PLYWOOD
3. COUNTERTOPS
   DRY AREAS:
   3/4" LAMINATE OVER LOW/NO FORMALDEHYDE MEDIUM DENSITY FIBERBOARD - 1X SOLID OAK EDGE BANDING

   WET AREAS:
   3/4" LAMINATE OVER MARINE GRADE OR A/C FIR PLYWOOD -1X SOLID OAK EDGE BANDING
4. SHELVES:
   3/4" PLYWOOD
5. DRAWERS:
   3/4" PLYWOOD CONSTRUCTION FACE AND BODY
6. ALL EXPOSED AND SEMI EXPOSED SURFACES TO BE WS-1 U.N.O.
7. ALL CONCEALED SURFACES TO RECEIVE WHITE MELAMINE FINISH U.N.O.

CDS ILLUSTRATION REFERENCE

NOTE: THESE ELEVATIONS USE THE CDS NUMBERING SYSTEM. REFER TO NAAWS DOCUMENTATION FOR MORE INFORMATION.



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.K. CAMPBELL 23761 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
MILLWORK

Sheet Number
A10.01

FURNITURE FIXTURE AND EQUIPMENT SCHEDULE- BY GC					
	ITEM	MANUFACTURER	MODEL	COLOR	COMMENTS
A	COT	CLINTON INDUSTRIES	3600-24	WEDGEWOOD	-
B	REFRIGERATOR WITH ICE MAKER	GE	GIE21GSHSS	STAINLESS	PROVIDE LOCKING MECHANISM AT NURSES STATION - ANCHOR PAD HINGED, LAB GRADE REFRIGERATOR AND CABINET LOCK - BOTH DOORS
C	REFRIGERATOR LOCK	SENSON	FRIDGIGUARD	--	



1 ENLARGED FF&E FLOOR PLAN - ADMIN AREA
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO OTHER PLANS FOR OTHER FF&E ITEMS.
2. PROVIDE FRT IN-WALL BLOCKING FOR ALL WALL MOUNTED ITEMS WHETHER GC PROVIDED OR DISD PROVIDED.
3. REFER TO ENLARGED PLANS FOR TOILET ACCESSORY SCHEDULE.
4. ITEMS NOT NOTED ON THIS PLAN OR OTHER PLANS ARE TO BE PROVIDED BY OWNER

CITY OF DALLAS STAMP

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

ISSUED FOR PERMIT REVIEW
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF E.J. [illegible], REGISTERED ARCHITECT, STATE OF TEXAS, 23701. IT IS NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.
E.J. [illegible]
TEXAS
DATE 10/22/2025
EXP: 12/2025

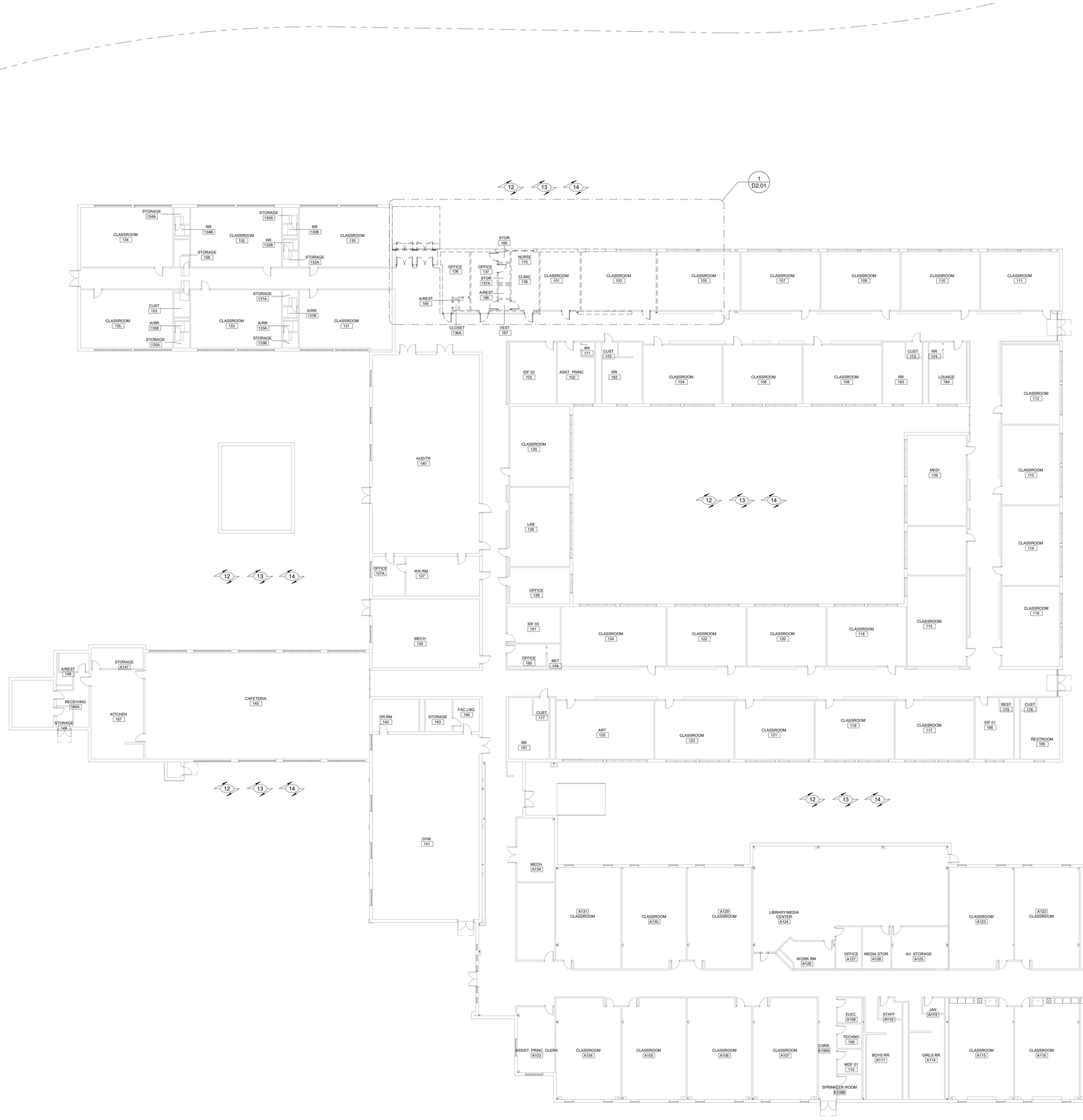
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217
100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2023
Project Number
2022.012

Issue Date
10.22.2025
Revised:

Sheet Title
FF&E PLAN

Sheet Number
A11.00



1 DEMO OVERALL FLOOR PLAN
1/16" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS
2. DEMOLITION PLANS ARE DIAGRAMMATIC ONLY; GC IS RESPONSIBLE FOR THE COORDINATION TO CONFIRM/INCLUDE ALL ITEMS WITHIN SCOPE AREA; REMOVE ITEMS TO SOURCE/CAP
3. PROTECT EXISTING BUILDING ELEMENTS TO REMAIN
4. EXISTING COLUMNS TO REMAIN
5. COVER FLOORS AND FURNITURE WITH PROTECTIVE BARRIER AT ALL ROOMS WHERE IS WORK ABOVE CEILING

LEGEND

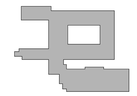
- DEMOLITION
- EXISTING TO REMAIN
- NOT IN SCOPE

DEMO KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON DRAWINGS

1 INTERIOR PARTITIONS TO BE DEMOLISHED INCLUSIVE OF DOORS AND WINDOWS
2 REMOVE EXISTING DOOR AND FRAME
3 DEMOLISH FA PANELS
4 REMOVE CEILING AND FLOORING ON THE HIGHLIGHTED AREA. REFER TO ARCHITECTURAL PLAN FOR NEW WALL EXACT LOCATION
5 EXTERIOR WALL TO BE DEMOLISHED INCLUSIVE OF DOORS AND WINDOWS
6 EXTERIOR STOREFRONT TO BE DEMOLISHED
7 REMOVE EXISTING FLOOR FINISH
8 DEMOLISH CEILING AND LIGHTS
9 EXISTING LOCKERS TO BE REMOVED, FINISH UNCOVERED WALL
10 EXTERIOR CANOPY TO BE DEMILOSHED
11 MARQUEE SIGN TO BE DEMOLISHED
12 REMOVE EXTERIOR WATERPROOFING SYSTEM/SEALANT JOINTS & BACKER RODS (INCLUDE ALL EXTERIOR WALL CONTROL/EXPANSION JOINTS, MATERIAL PRANSITIONS, AROUND DOOR AND WINDOW FRAMES, WALL PENETRATIONS, ETC.)
13 REMOVE SECURITY SCREENS AT 1ST FLOOR WINDOWS
14 REMOVE EXISTING MASONRY EXPANSION JOINT FILLER
15 DEMOLISH EXISTING CONCRETE PAVEMENT
16 PORTION OF EXISTING GUTTER TO DEMOLISH
17 REMOVE AND SALVAGE INTERCOM CABINET FOR RELOCATION
18 REMOVE AND SALVAGE EXISTING DEVICE FOR RELOCATION (SECURITY CLOCK, BIOMETRIC CLOCK, ETC).
19 DISD TO REMOVE AND SALVAGE EXISTING WIRELESS ACCESS POINT

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.C. CAMPBELL 23791 STATE OF TEXAS

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
DEMO L1

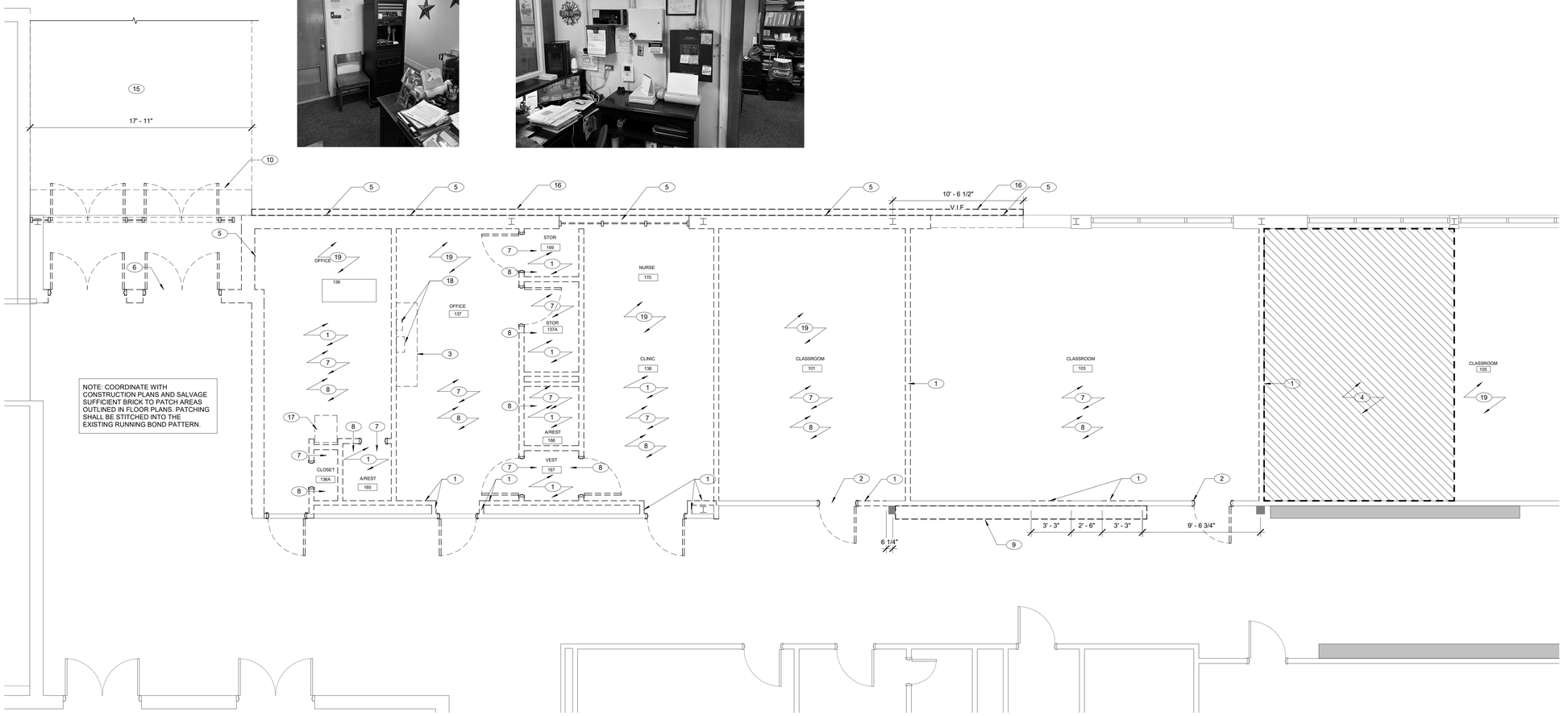
Sheet Number
D2.00

17 PICTURE REFERENCE



18 PICTURE REFERENCE





1 DEMO ENLARGED FLOOR PLAN
1/4" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS
2. DEMOLITION PLANS ARE DIAGRAMMATIC ONLY; GC IS RESPONSIBLE FOR THE COORDINATION TO CONFIRM/INCLUDE ALL ITEMS WITHIN SCOPE AREA; REMOVE ITEMS TO SOURCE/CAP
3. PROTECT EXISTING BUILDING ELEMENTS TO REMAIN
4. EXISTING COLUMNS TO REMAIN
5. COVER FLOORS AND FURNITURE WITH PROTECTIVE BARRIER AT ALL ROOMS WHERE IS WORK ABOVE CEILING

LEGEND

- DEMOLITION
- EXISTING TO REMAIN
- NOT IN SCOPE

DEMO KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON DRAWINGS

1 INTERIOR PARTITIONS TO BE DEMOLISHED INCLUSIVE OF DOORS AND WINDOWS
2 REMOVE EXISTING DOOR AND FRAME
3 DEMOLISH FA PANELS
4 REMOVE CEILING AND FLOORING ON THE HIGHLIGHTED AREA. REFER TO ARCHITECTURAL PLAN FOR NEW WALL EXACT LOCATION
5 EXTERIOR WALL TO BE DEMOLISHED INCLUSIVE OF DOORS AND WINDOWS
6 EXTERIOR STOREFRONT TO BE DEMOLISHED
7 REMOVE EXISTING FLOOR FINISH
8 DEMOLISH CEILING AND LIGHTS
9 EXISTING LOCKERS TO BE REMOVED; FINISH UNCOVERED WALL
10 EXTERIOR CANOPY TO BE DEMILOSHED
11 MARQUEE SIGN TO BE DEMOLISHED
12 REMOVE EXTERIOR WATERPROOFING SYSTEM/SEALANT JOINTS & BACKER RODS (INCLUDE ALL EXTERIOR WALL CONTROL/EXPANSION JOINTS, MATERIAL PRANSITIONS, AROUND DOOR AND WINDOW FRAMES, WALL PENETRATIONS, ETC.)
13 REMOVE SECURITY SCREENS AT 1ST FLOOR WINDOWS
14 REMOVE EXISTING MASONRY EXPANSION JOINT FILLER
15 DEMOLISH EXISTING CONCRETE PAVEMENT
16 PORTION OF EXISTING GUTTER TO DEMOLISH
17 REMOVE AND SALVAGE INTERCOM CABINET FOR RELOCATION
18 REMOVE AND SALVAGE EXISTING DEVICE FOR RELOCATION (SECURITY CLOCK, BIOMETRIC CLOCK, ETC).
19 DISD TO REMOVE AND SALVAGE EXISTING WIRELESS ACCESS POINT

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT M.C. CAMPBELL STATE OF TEXAS 23701

DATE:10.22.2025
EXP: 12/2025

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CRADLEROCK DRIVE DALLAS, TX 75217

100% CONSTRUCTION DRAWINGS

© CaCo Architecture LLC 2025

Project Number
2022.012
Issue Date
10.22.2025
Revised:

Sheet Title
DEMO ADMIN

Sheet Number
D2.01

GENERAL ROOF DEMOLITION NOTES

ROOF AREA A

1. REMOVE EXISTING ROOFING RELATED SHEET METAL TO INCLUDE COUNTER FLASHING MISC. FLASHING, EXPANSION JOINTS, GUTTERS DOWNSPOUTS, ROOF EDGE METAL, COPING AND LEAD PLUMBING VENT FLASHINGS.
2. REMOVE ALL EXISTING PITCH PANS. ALL EXISTING PIPING TO BE REMOVED
3. REMOVE ALL ABANDONED EQUIPMENT AND ASSOCIATED FLASHINGS DOWN TO THE EXISTING DECK. VERIFY EQUIPMENT IS ABANDONED WITH DISD MAINTENANCE STAFF. NOTE ALL EXISTING EQUIPMENT CURBS ARE TO BE REPLACED OR RAISED TO MEET MIN. 14" FLASHING HEIGHTS. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
4. SECURITY BEAM DETECTORS (IF ANY) TO BE REMOVED AND RETURNED TO OWNER. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REINSTALLATION PROCEDURES AND ROOF DRAWINGS FOR FLASHING DETAILS.
5. EXAMINE AND PREPARE THE EXISTING ROOF DECK TO MEET THE ROOF MANUFACTURERS REQUIREMENTS AS A SUITABLE SUBSTRATE FOR THE NEW ROOF ASSEMBLY.
6. REFER TO MEP DRAWINGS FOR COORDINATION. ANY ROOF EQUIPMENT NOT SHOWN IN ROOF DRAWINGS BUT, SHOWN IN MEP DRAWINGS IS THE CONTRACTORS RESPONSIBILITY TO RAISE, AS REQUIRED, TO MEET ROOF FLASHING HEIGHT REQUIREMENTS.
7. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL ROOF RELATED MEP WORK BETWEEN ROOFER AND RELEVANT MEP TRADE.

EXISTING ROOF SYSTEM DEMOLITON

ROOF SYSTEM - ROOF AREA A:

- REMOVE EXISTING POLYURETHANE FOAM ROOF SYSTEM DOWN TO EXISTING DECK

DEMOLITION SCOPE:
- REMOVE ALL ROOFING RELATED SHEET METAL INCLUDING EDGE METAL AND COUNTER FLASHINGS
- INSPECT EXISTING DECK AND ENSURE IT IS STRUCTURALLY SOUND
- REMOVE ALL PITCH PAN PENETRATIONS

LEGEND

GUTTER DS	GUTTER, DOWNSPOUT, AND SPLASH BLOCK IN SCOPE TO BE REPLACED TO ACCOMMODATE NEW ROOF SYSTEM
EJ	EXPANSION JOINT IN SCOPE TO BE RAISED TO ACCOMMODATE NEW ROOF SYSTEM
EF	EXHAUST FAN TO REMAIN
V	VENT TO BE REMAIN AND TO BE RAISED TO ACCOMMODATE NEW ROOF SYSTEM.
AHU	AIR HANDLING UNIT TO BE REPLACED
RTU	ROOF TOP UNIT TO BE REPLACED

ADVISORY NOTE FROM DISD ASBESTOS CONSULTANT

ROOFING REMOVAL AND DISPOSAL REQUIREMENTS.

ASPHALT ROOFING PRODUCTS WHICH MAY CONTAIN ASBESTOS INCLUDE BUILT-UP ROOFING; ASPHALT-CONTAINING SINGLE PLY MEMBRANE SYSTEMS; ASPHALT SHINGLES; ASPHALT-CONTAINING UNDERLAYMENT FELTS; ASPHALT-CONTAINING ROOF COATINGS AND MASTICS;AND ASPHALT-CONTAINING BASE FLASHINGS. ACM ROOFING PRODUCTS THAT USE OTHER BITUMINOUS OR RESINOUS BINDERS (SUCH AS COAL TARS OR PITCHES) ARE ALSO CONSIDERED TO BE CATEGORY 1 ACM. CATEGORY 2 ACM INCLUDES ALL OTHER NONFRIABLE ACM, FOR EXAMPLE, ASBESTOS-CEMENT (A/C) SHINGLES, A/C TILES, AND TRANSITE BOARDS OR PANELS CONTAINING MORE THAN ONE PERCENT ASBESTOS. GENERALLY SPEAKING, CATEGORY 2 ACM IS MORE LIKELY TO BECOME FRIABLE WHEN DAMAGED THAN CATEGORY 1 ACM. THE APPLICABILITY OF THE NESHAP TO CATEGORY 1 AND 2 ACM DEPENDS ON: (1) THE OF THE MATERIAL AT THE TIME OF DEMOLITION OR RENOVATION, (2) THE NATURE OF THE OPERATION TO WHICH THE MATERIAL WILL BE SUBJECTED, (3) THE AMOUNT OF ACM INVOLVED.

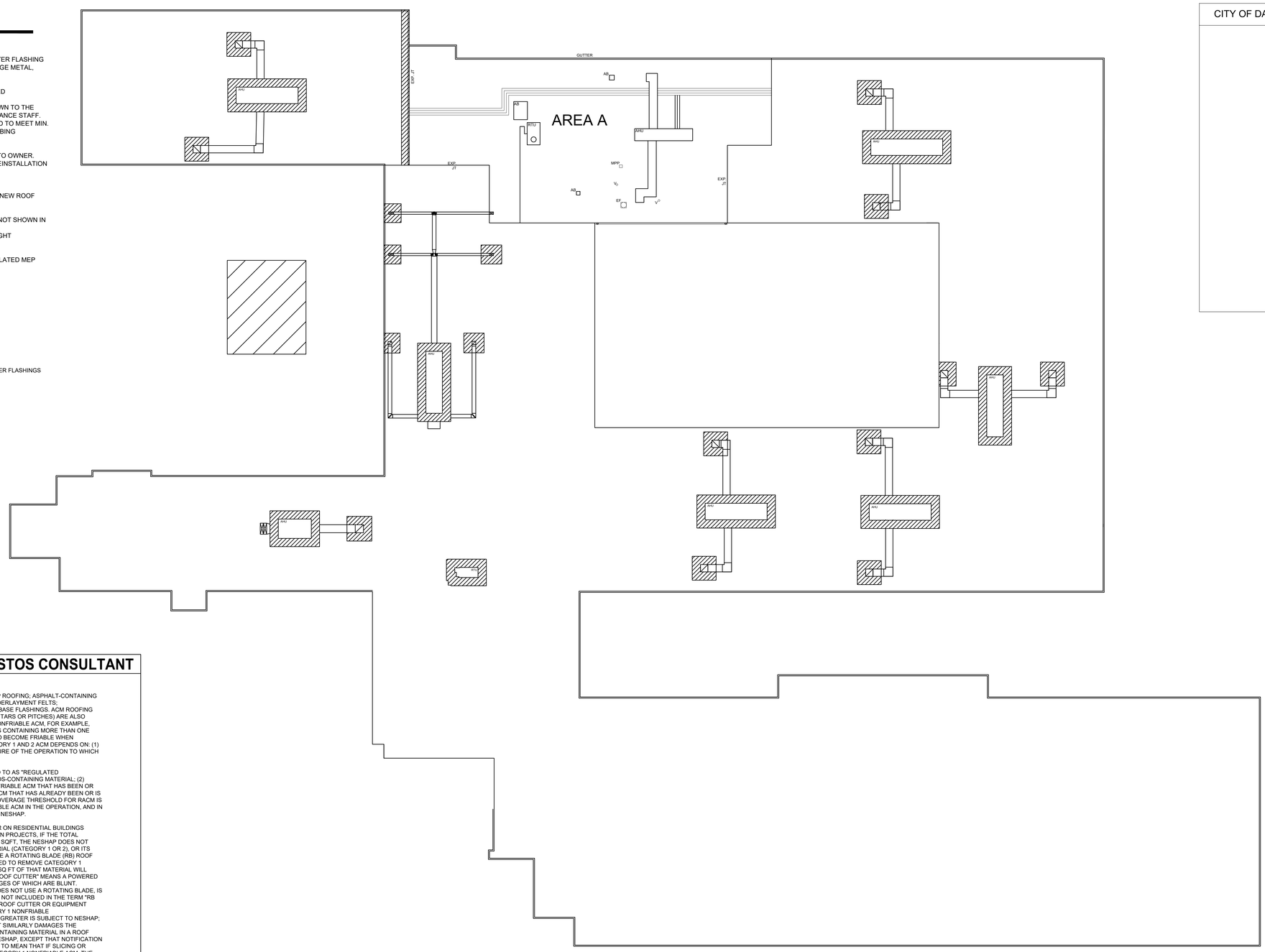
ASBESTOS -CONTAINING MATERIAL REGULATED UNDER THE NESHAP IS REFERRED TO AS "REGULATED ASBESTOS-CONTAINING MATERIAL" (RACM). RACM INCLUDES: (1) FRIABLE ASBESTOS-CONTAINING MATERIAL; (2) CATEGORY 1 NONFRIABLE ACM THAT HAS BECOME FRIABLE; (3) CATEGORY 1 NONFRIABLE ACM THAT HAS BEEN OR WILL BE SANDED, GROUND, CUT, OR ABRADED; OR (4) CATEGORY 2 NONFRIABLE ACM THAT HAS ALREADY BEEN OR IS LIKELY TO BECOME CRUMBLED, PULVERIZED, OR REDUCED TO POWDER. IF THE COVERAGE THRESHOLD FOR RACM IS MET OR EXCEEDED IN A RENOVATION OR DEMOLITION OPERATION, THEN ALL FRIABLE ACM IN THE OPERATION, AND IN CERTAIN SITUATIONS, NONFRIABLE ACM IN THE OPERATION, ARE SUBJECT TO THE NESHAP.

THE NESHAP DOES NOT COVER ROOFING PROJECTS ON SINGLE FAMILY HOMES OR ON RESIDENTIAL BUILDINGS CONTAINING FOUR OR FEWER DWELLING UNITS. FOR OTHER ROOFING RENOVATION PROJECTS, IF THE TOTAL ASBESTOS-CONTAINING ROOF AREA UNDERGOING RENOVATION IS LESS THAN 160 SQFT, THE NESHAP DOES NOT APPLY, REGARDLESS OF THE REMOVAL METHOD TO BE USED, THE TYPE OF MATERIAL (CATEGORY 1 OR 2), OR ITS CONDITION (FRIABLE VERSUS NONFRIABLE). THE EPA HAS DETERMINED THAT WERE A ROTATING BLADE (RB) ROOF CUTTER OR EQUIPMENT THAT SIMILARLY DAMAGES THE ROOFING MATERIAL IS USED TO REMOVE CATEGORY 1 NONFRIABLE ASBESTOS-CONTAINING ROOFING MATERIAL, THE REMOVAL OF 5580 SQ FT OF THAT MATERIAL WILL CREATE 160 SQ FT RACM. FOR THE PURPOSES OF THIS INTERPRETIVE RULE, "RB ROOF CUTTER" MEANS A POWERED ROOF CUTTING MACHINE WITH ONE OR MORE ROTATING CUTTING BLADES THE EDGES OF WHICH ARE BLUNT. (EQUIPMENT WITH BLADES HAVING SHARP OR TAPERED EDGES, AND/OR WHICH DOES NOT USE A ROTATING BLADE, IS USED FOR "SLICING" RATHER THAN "CUTTING" THE MATERIAL; SUCH EQUIPMENT IS NOT INCLUDED IN THE TERM "RB ROOF CUTTER.) THEREFORE, IT IS THE EPA'S INTERPRETATION THAT WHEN AN RB ROOF CUTTER OR EQUIPMENT THAT SIMILARLY DAMAGES THE ROOFING MATERIAL IS USED TO REMOVE CATEGORY 1 NONFRIABLE ASBESTOS-CONTAINING ROOFING MATERIAL, ANY PROJECT THAT IS 5580 SQFT OR GREATER IS SUBJECT TO NESHAP; CONVERSELY, IT IS EPA'S INTERPRETATION THAT WHEN AN RB ROOF CUTTER THAT SIMILARLY DAMAGES THE ROOFING MATERIAL IS USED TO REMOVE CATEGORY 1 NONFRIABLE ASBESTOS-CONTAINING MATERIAL IN A ROOF PROJECT THAT IS LESS THAN 5580 SQFT, THE PROJECT IS NOT SUBJECT TO THE NESHAP, EXCEPT THAT NOTIFICATION IS ALWAYS REQUIRED FOR DEMOLITIONS. EPA FURTHER CONSTRUES THE NESHAP TO MEAN THAT IF SLICING OR OTHER METHODS THAT DO NOT SAND, GRIND, CUT, OR ABRADE WILL BE USED CATEGORY 1 NONFRIABLE ACM, THE NESHAP DOES NOT APPLY, REGARDLESS OF THE AREA OF ROOF TO BE REMOVED.

THE APPLICATION OF THE NESHAP TO THE REMOVAL OF ROOFING MATERIALS AT JOHN RUNYON ELEMENTARY SCHOOL WILL BE DETERMINED BY THE METHOD OF REMOVAL BY THE CONTRACTOR AS DEFINED ABOVE. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF DISPOSAL REQUIREMENTS AT THE LANDFILL OF CHOICE.

NOTE TO CONTRACTOR:
NO STAGING OF MECHANICAL OR ELECTRICAL WORK OR EQUIPMENT IS TO TAKE PLACE DIRECTLY ON EXISTING ROOF SYSTEMS. CONTRACTOR TO PROVIDE 1" POLYISOCYANURATE INSULATION AND 3/4" PLYWOOD TEMPORARY PROTECTION UNDER ALL MATERIALS STORED ON EXISTING ROOF SURFACES.

COORDINATE DEMOLITION SCOPE WITH ABATEMENT CONTRACTOR.



1 **DEMOLITION ROOF PLAN**
1/16" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT
STATE OF TEXAS
Date of Signing 10/22/25

DRYTEC
Moisture Protection Technology Consultants
8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813

DALLAS ISD - ORG135
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 Cladlerock
Dallas, Texas 75217
PERMIT SET

© CaCo Architecture LLC 2023

Project Number
2022.010

Issue Date
10.22.25
Revised:

Sheet Title
OVERALL
DEMOLTION PLAN

Sheet Number
RD1.00

GENERAL NOTES

EXISTING ROOF AREAS WHERE WORK IS TO BE PERFORMED:

NO STAGING OF MECHANICAL OR ELECTRICAL WORK OR EQUIPMENT IS TO TAKE PLACE DIRECTLY ON NEW OR EXISTING ROOF SYSTEMS. CONTRACTOR TO PROVIDE 1 INCH POLYISOCYANURATE INSULATION AND 3/4 INCH PLYWOOD TEMPORARY PROTECTION UNDER ALL MATERIALS STORED ON EXISTING ROOF SURFACES AND ON NEWLY INSTALLED ROOF SYSTEMS.

ALL WOOD BLOCKING WILL BE BUILT UP ACCORDING TO THE REQUIRED DIMENSIONS OF THE INSULATION.

COORDINATE DEMOLITION SCOPE WITH ABATEMENT CONTRACTOR.

ALL ROOF AREAS:

1. ALL SIGHT EXPOSED ROOFING RELATED SHEET METAL VISIBLE FROM GROUND LEVEL TO BE FORMED OUT OF PRE-FINISHED SHEET METAL.
2. ALL NON SIGHT EXPOSED ROOFING RELATED SHEET METAL NOT VISIBLE FROM GROUND LEVEL TO BE FORMED OUT OF GALVANIZED SHEET METAL.
3. INSTALL INSULATION CRICKETS ON THE HIGH SIDE OF ALL ROOF CURBS.
4. CLEAN PRIME AND PAINT ALL EXISTING GAS PIPING WHERE NEW UNITS ARE INSTALLED ON EXISTING ROOF. INSTALL NEW PIPE SUPPORTS AND PROTECTION PADS UNDER NEW PIPING, SPACE AT 8 FEET O.C. IN LINEAR DIRECTION AND 2 FEET O.C. AT CHANGE IN DIRECTION.
5. ALL EXISTING RTU'S THAT ARE BEING REPLACED ARE TO ALSO HAVE WALKWAY PADS INSTALLED ALONG SERVICE SIDE.

KEYED ROOF PLAN NOTES

1. WHERE EXISTING OR NEW ROOFTOP EQUIPMENT IS TO BE REPLACED OR NEW UNITS ADDED, WORK SHALL INCLUDE REWORK OF ALL CONDUITS AND ALLOCATED WIRING J-BOXES, GAS PIPING, CONDENSATE DRAIN PIPING, REFRIGERANT SUPPLY PIPING AND RETURN PIPING AND CONTROL WIRING. REWORK OF REFRIGERANT LINES TO INCLUDE THE EVACUATION OF THE EXISTING REFRIGERANT AND INSTALLATION OF SAID REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED TO FULLY CHARGE SYSTEM.
2. INSTALL NEW PIPE SUPPORTS AND PROTECTION PADS UNDER NEW PIPING AND PIPING THAT IS REWORK SPACED AT 8 FEET O.C. IN LINEAR DIRECTION AND 2 FEET O.C. AT CHANGE IN DIRECTION.
3. WHERE NEW EXHAUST FANS ARE INSTALLED AND EXISTING REPLACED ENSURE ALL HOODS AND EQUIPMENT FIT ONTO NEW OR EXISTING CURBS AND OPENINGS.
4. REPLACE EXISTING FLEXIBLE CONDUIT WITH RIGID CONDUIT OF EQUIVALENT SIZE.
5. NEW PENETRATION AT EXISTING ROOF SYSTEM WILL HAVE RESIN FLASHING INSTALLED. THEREFORE, PENETRATIONS WILL NEED TO BE SPACED 6 INCHES APART SINCE, THE DISD DOES NOT ALLOW FOR PITCH PANS.
6. EXISTING ADJACENT ROOF AREAS AND NEW CONSTRUCTION REMOVE EXISTING ROOF SYSTEM 6 FEET FROM THE NEW CONSTRUCTION DOWN TO EXISTING ROOF DECK. INSTALL NEW ROOF TO MATCH EXISTING ROOF SYSTEM. WHERE NEW ROOFTOP UNITS AND CURBS ARE TO BE INSTALLED, REMOVE EXISTING ROOF SYSTEM DOWN TO DECK FOR INSTALLATION OF NEW CURBS. INSTALL NEW ROOF SYSTEM TO MATCH EXISTING ROOF SYSTEM. PROVIDE CRICKETS ON HIGH SIDE OF CURBS. ENSURE APPROVED APPLICATION IS UTILIZED WORK TO BE PERFORMED AT ALL EXISTING ROOF AREAS.
7. INSTALL NEW PROTECTION PADS AROUND EXISTING CURBS AND NEW UNITS AS PER DISD DIRECTION. MATCH EXISTING ROOF SYSTEM MEMBRANE AND MATERIALS.
8. PROTECT EXISTING ROOF SYSTEM DURING INSTALLATION OF NEW ROOFTOP UNITS

ROOF SYSTEM NOTES

ROOF SYSTEM - ROOF AREA A:

INSTALL 2 PLY MINERAL SURFACED MODIFIED BITUMEN ROOF SYSTEM AS FOLLOWS:

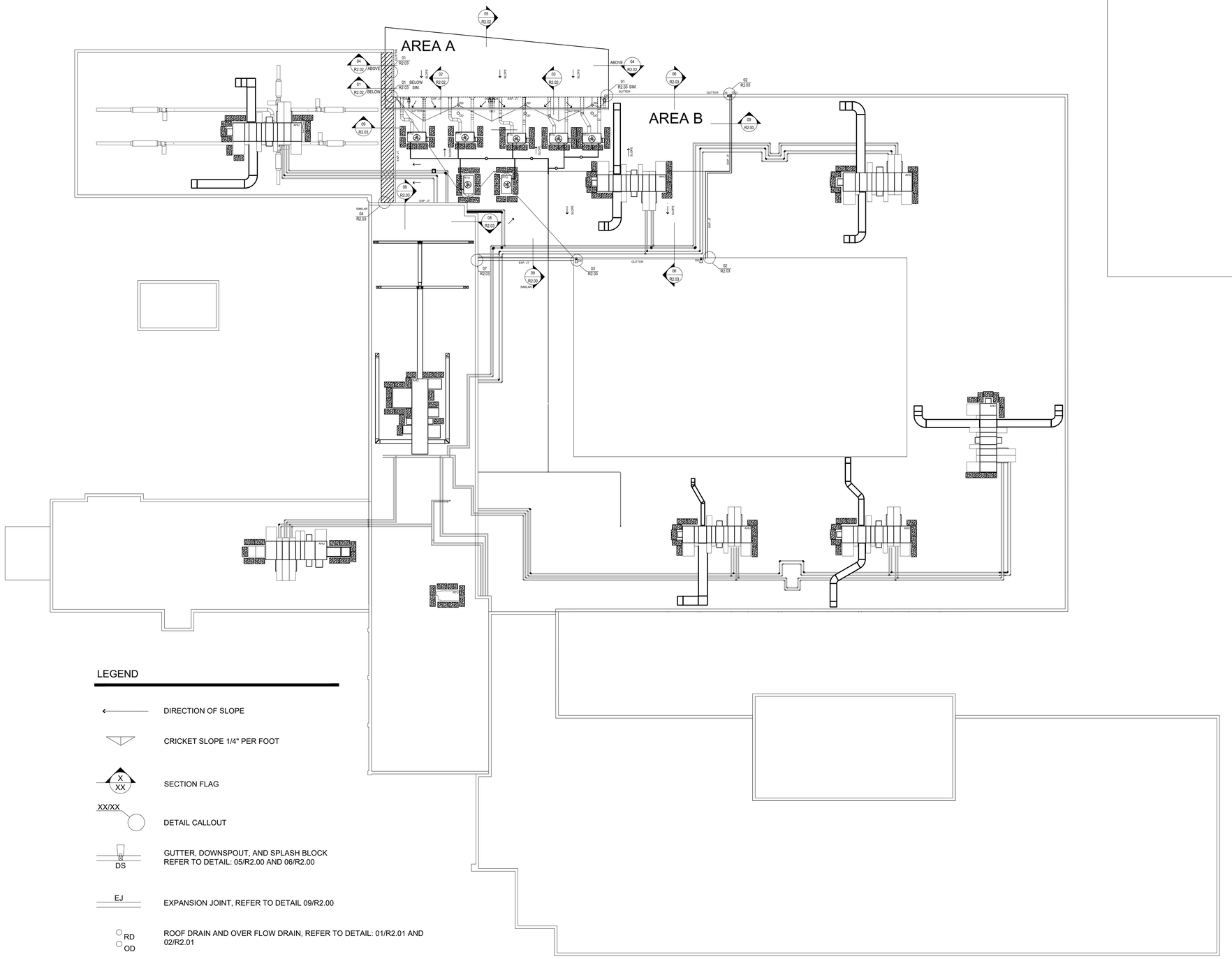
- INSTALL ENERGY STAR RATED TORCHED APPLIED MODIFIED BITUMEN CAP SHEET INSTALLED OVER
- TORCHED APPLIED MODIFIED BITUMEN BASE SHEET INSTALLED OVER
- 1/2 INCH HIGH DENSITY ROOF COVER BOARD INSTALLED WITH LOW RISE ADHESIVE OVER
- 2.0 INCH THICK POLYISOCYANURATE INSULATION INSTALLED WITH WITH LOW RISE ADHESIVE OVER
- 3.0 INCH THICK POLYISOCYANURATE INSULATION MECHANICALLY FASTENED
- NEW SLOPED METAL DECK

ROOF SYSTEM - ROOF AREA B:

INSTALL 2 PLY MINERAL SURFACED MODIFIED BITUMEN ROOF SYSTEM AS FOLLOWS:

- INSTALL ENERGY STAR RATED TORCHED APPLIED MODIFIED BITUMEN CAP SHEET INSTALLED OVER
- TORCHED APPLIED MODIFIED BITUMEN BASE SHEET INSTALLED OVER
- 1/2 INCH HIGH DENSITY ROOF COVER BOARD INSTALLED WITH LOW RISE ADHESIVE OVER
- 1/2 INCH STARTING THICK TAPERED AT 1/4" PER FOOT POLYISOCYANURATE INSULATION INSTALLED WITH LOW RISE ADHESIVE OVER
- 2.0 INCH THICK POLYISOCYANURATE INSULATION INSTALLED WITH LOW RISE ADHESIVE OVER
- 3.0 INCH THICK LAYER OF POLYISOCYANURATE INSULATION INSTALLED WITH LOW RISE FOAM ADHESIVE OVER
- VENTED BASE SHEET MECHANICALLY ATTACHED TO
- EXISTING LEVEL LIGHTWEIGHT DECK

- CRICKETS ARE TO BE FORMED WITH 1/2 INCH PER FOOT TAPERED POLYISOCYANURATE INSULATION MIN. NET SLOPE OF 1/4 INCH PER FOOT.



LEGEND

- DIRECTION OF SLOPE
- CRICKET SLOPE 1/4" PER FOOT
- X / XX — SECTION FLAG
- XX/XX — DETAIL CALLOUT
- DS — GUTTER, DOWNSPOUT, AND SPLASH BLOCK. REFER TO DETAIL: 05/R2.00 AND 06/R2.00
- EJ — EXPANSION JOINT, REFER TO DETAIL 09/R2.00
- RD / OD — ROOF DRAIN AND OVER FLOW DRAIN, REFER TO DETAIL: 01/R2.01 AND 02/R2.01
- RTU — ROOF TOP UNIT, REFER TO DETAIL: 03/R2.01
- AHU — AIR HANDLING UNIT, REFER TO DETAIL: 03/R2.01
- V — PLUMBING VENT REFER TO DETAIL, REFER TO DETAIL 04/R2.01
- G / C / E — GAS PIPING, CONDENSATE PIPING AND HARD ELECTRICAL CONDUIT PIPING, REFER TO DETAILS 07/R2.01 AND 08/R2.01. GAS PENETRATION, REFER TO DETAIL 08/R2.00. ELECTRICAL PENETRATION REFER TO DETAIL 06/R2.01.
- WALKPADS, REFER TO DETAIL 05/R2.01
- EF — EXHAUST FAN, REFER TO DETAIL 04/R2.00
- RTU — ROOF TOP UNIT ON EXISTING ROOF SYSTEM, REFER TO DETAIL: 01/R2.00
- MPP — MULTIPLE PIPE PENETRATION, REFER TO DETAIL 02/R2.00, 03/R2.00, 07/R2.00, AND 11/R2.01.
- DP — DUCT PENETRATION IF NEEDED, REFER TO DETAIL 10/R2.00 AND 11/R2.00. FOR DUCT SUPPORT, REFER TO DETAIL 13/R2.01.

1 CONSTRUCTION ROOF PLAN

1/16" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT — STATE OF TEXAS

Date of Signing 10/22/25

DRYTEC
Moisture Protection Technology Consultants
8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813

DALLAS ISD - ORG135

JOHN W. RUNYON ELEMENTARY SCHOOL

10750 Cladlerock
Dallas, Texas 75217

PERMIT SET

© CaCo Architecture LLC 2023

Project Number
2022.010

Issue Date
10.22.25

Revised:

Sheet Title
OVERALL CONSTRUCTION PLAN

Sheet Number
R1.01

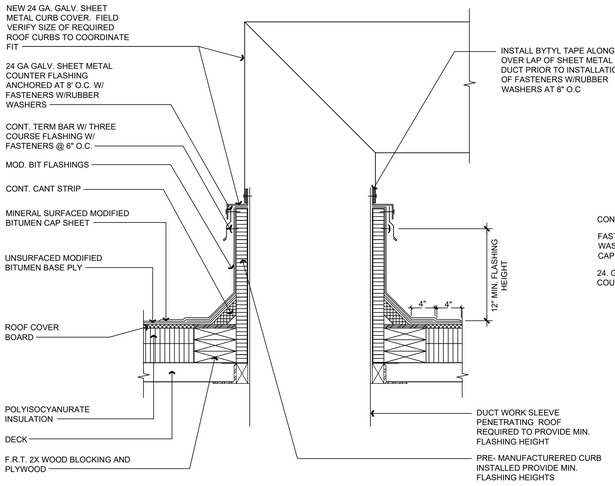
CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

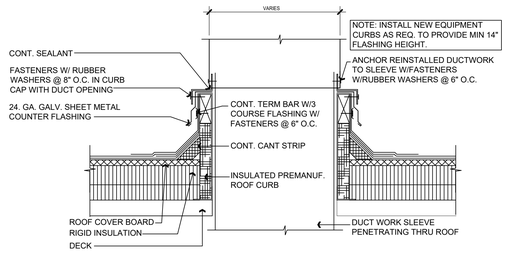
REGISTERED ARCHITECT
STATE OF TEXAS
Date of Signing 10/22/25

DRYTEC
Moisture Protection Technology Consultants

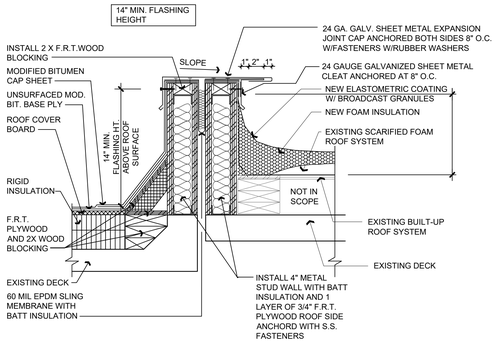
8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813



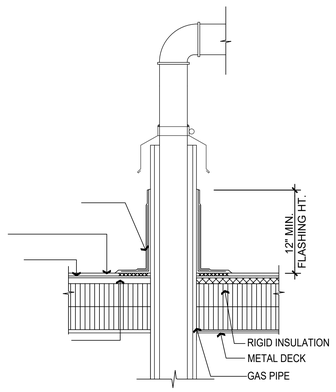
11 Duct Penetration Detail
Scale: 1 1/2" = 1' - 0"



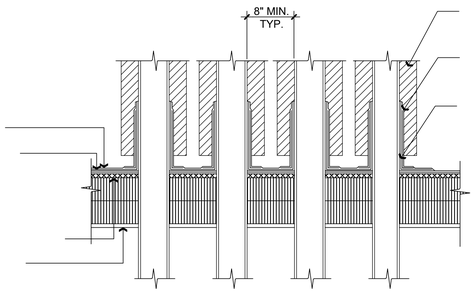
10 Duct Penetration Detail
Scale: 1 1/2" = 1'-0"



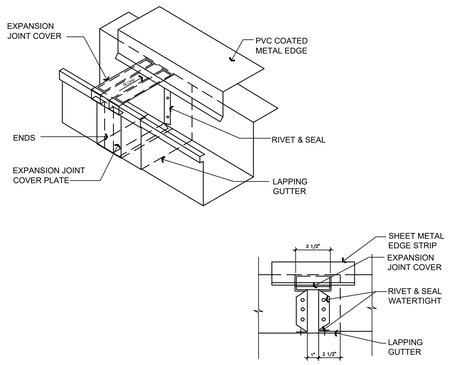
09 Expansion Joint Curb Detail
Scale: 1 1/2" = 1' - 0"



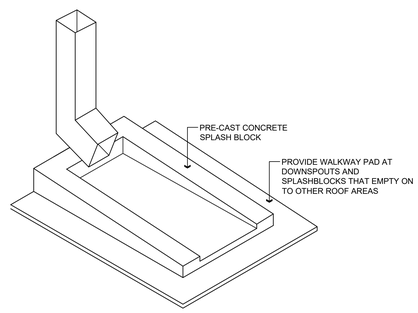
08 Gas Penetration Detail
Scale: 1 1/2" = 1' - 0"



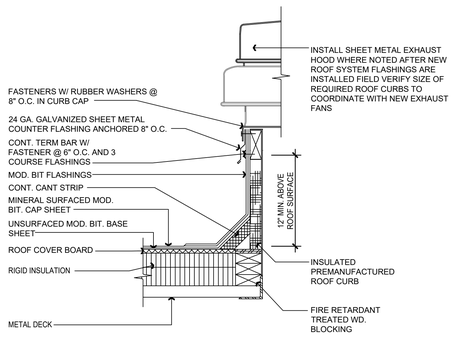
07 Multiple Pipe Penetration Detail
Scale: N.T.S.



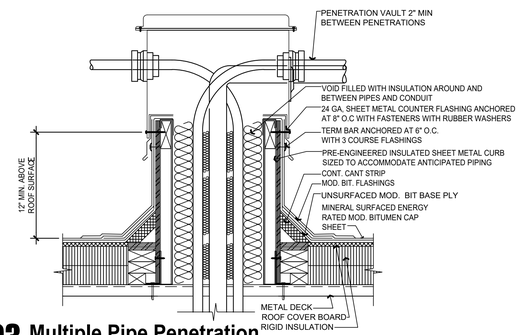
06 Gutter Expansion Detail
Scale: 1 1/2" = 1' - 0"



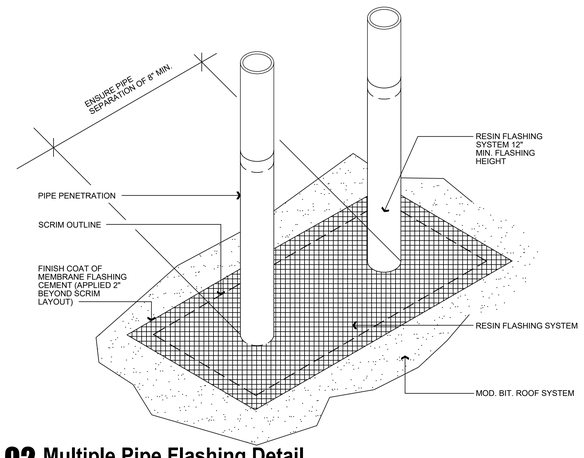
05 Splash Block Detail
Scale: 1 1/2" = 1' - 0"



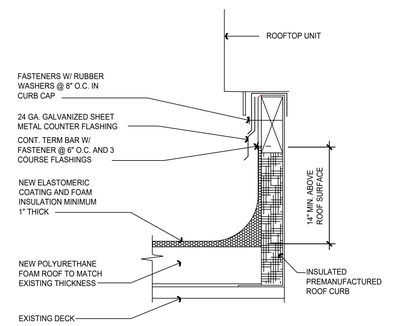
04 Exhaust Fan Detail
Scale: 1 1/2" = 1' - 0"



03 Multiple Pipe Penetration
Scale: 1 1/2" = 1' - 0"



02 Multiple Pipe Flashing Detail
Scale: None



01 Equipment Detail
Scale: 1 1/2" = 1' - 0"

DALLAS ISD - ORG135
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 Cladlerock
Dallas, Texas 75217
PERMIT SET

© CaCo Architecture LLC 2023

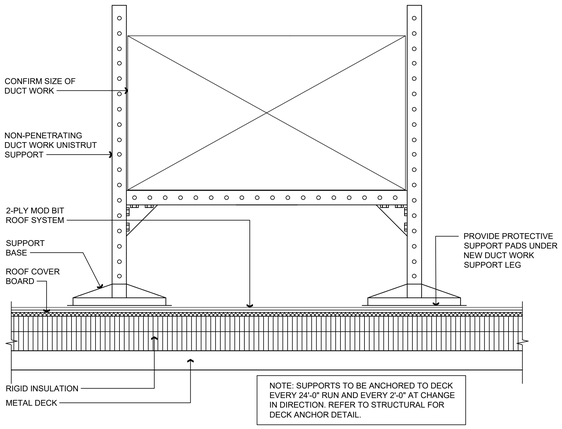
Project Number
2022.010

Issue Date
10.22.25
Revised:

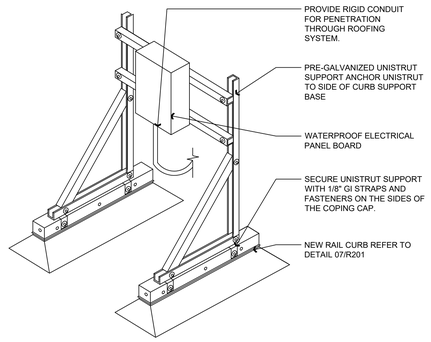
Sheet Title
ROOF DETAILS

Sheet Number
R2.00

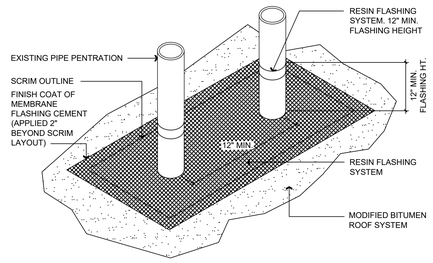
CITY OF DALLAS STAMP



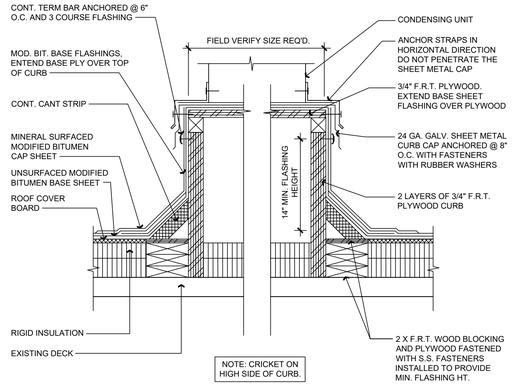
13 Duct Support Detail
Scale: 1 1/2" = 1'- 0"



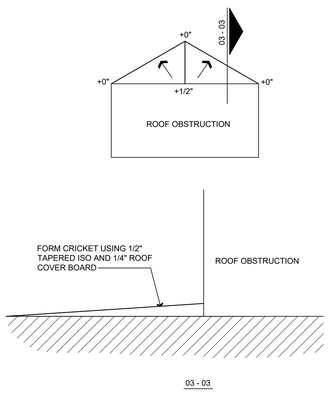
12 Electrical Box/ J-Box Support Detail
Scale: N.T.S.



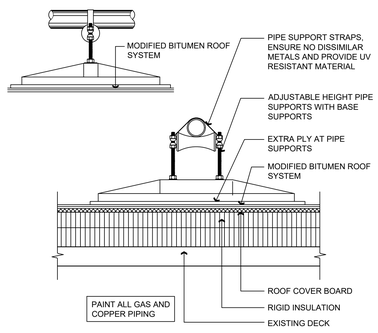
11 Liquid Flashing at Multiple Pipe Penetrations
Scale: N.T.S.



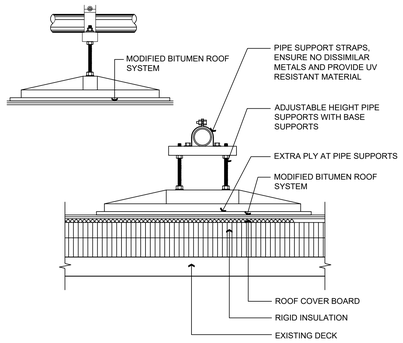
10 Condensing Unit Detail
Scale: 1 1/2" = 1'-0"



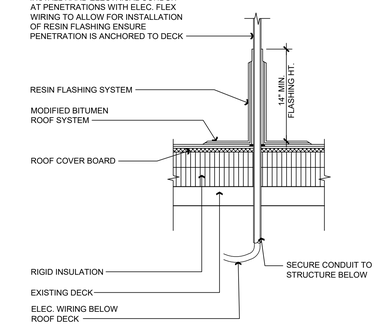
09 Cricket Detail
Scale: N.T.S.



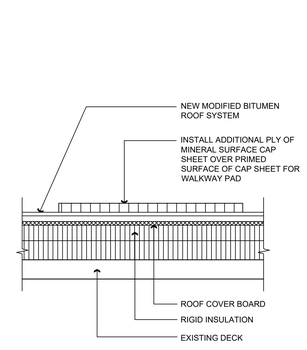
08 Gas Pipe Support Detail
Scale: 1 1/2" = 1' - 0"



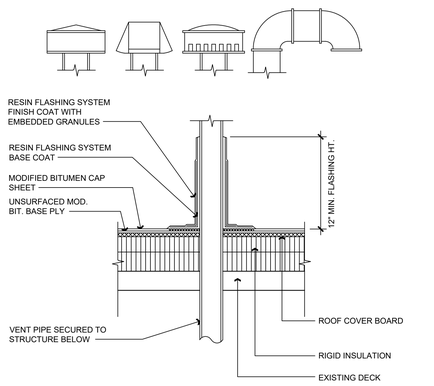
07 Pipe/Conduit Support Detail
Scale: 1 1/2" = 1' - 0"



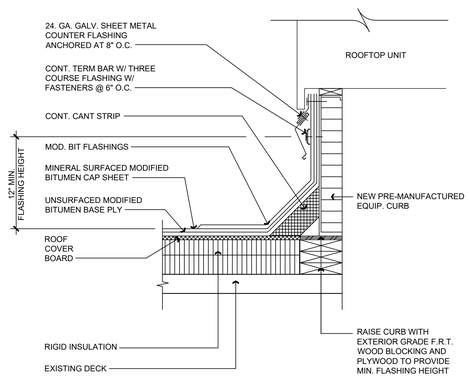
06 Electrical Conduit Penetration Detail
Scale: 1 1/2" = 1' - 0"



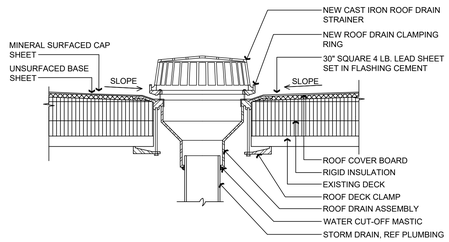
05 Walkway Pad Detail
Scale: 1 1/2" = 1' - 0"



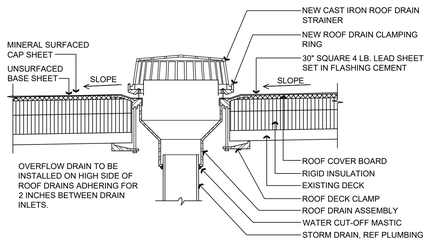
04 Penetration Detail
Scale: 1 1/2" = 1' - 0"



03 Equipment Curb Detail
Scale: 1 1/2" = 1' - 0"



02 Roof Drain Flashing Detail
Scale: 1 1/2" = 1' - 0"



01 Overflow Roof Drain Flashing Detail
Scale: 1 1/2" = 1' - 0"

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT
STATE OF TEXAS

Date of Signing 10/22/25

DRYTEC
Moisture Protection Technology Consultants

8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813

DALLAS ISD - ORG135
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 Cladlerock
Dallas, Texas 75217
PERMIT SET

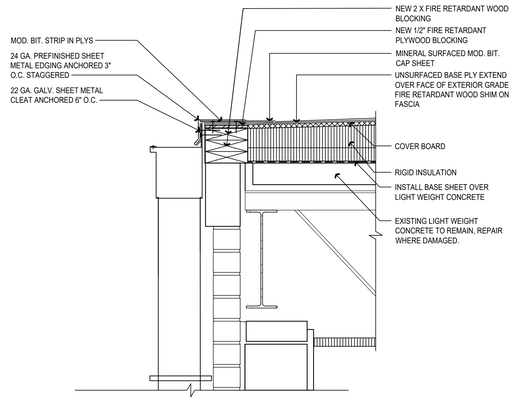
© CaCo Architecture LLC 2023

Project Number
2022.010

Issue Date
10.22.25
Revised:

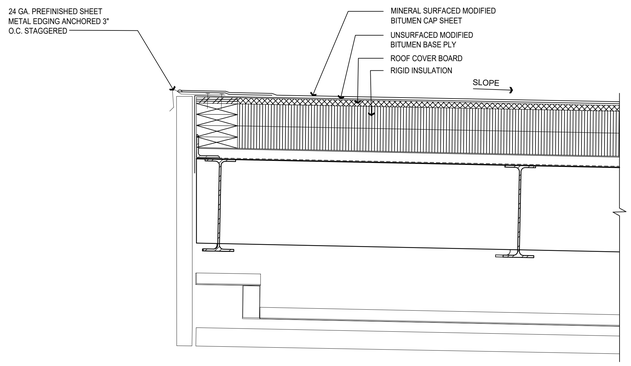
Sheet Title
ROOF DETAILS

Sheet Number
R2.01



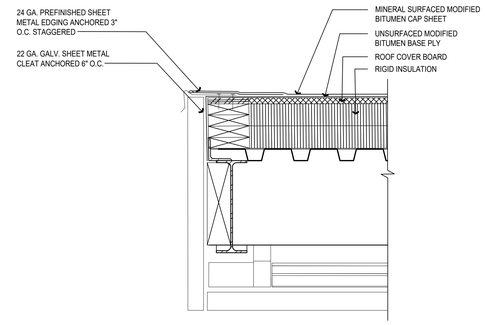
06 Edge Detail at Existing Edge Condition

Scale: 1 1/2" = 1'-0"



05 High End Edge Condition

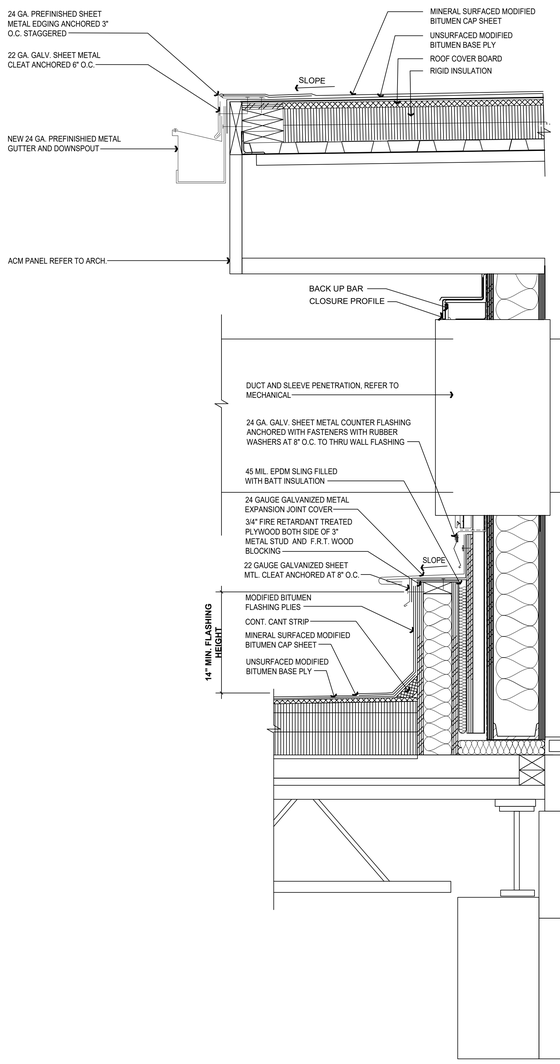
Scale: 1 1/2" = 1' - 0"



04 Edge Condition

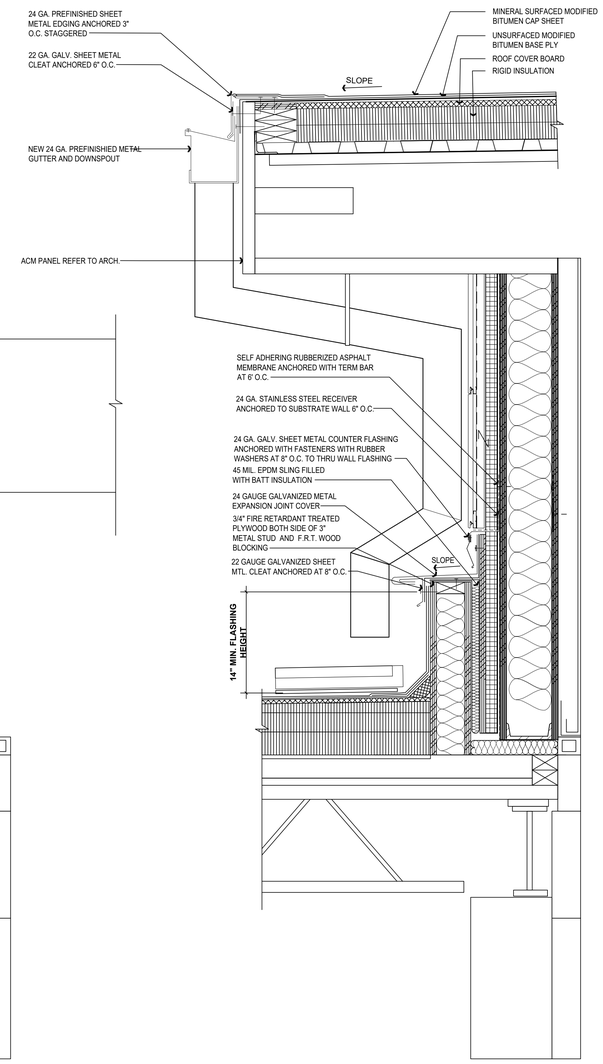
Scale: 1 1/2" = 1' - 0"

CITY OF DALLAS STAMP



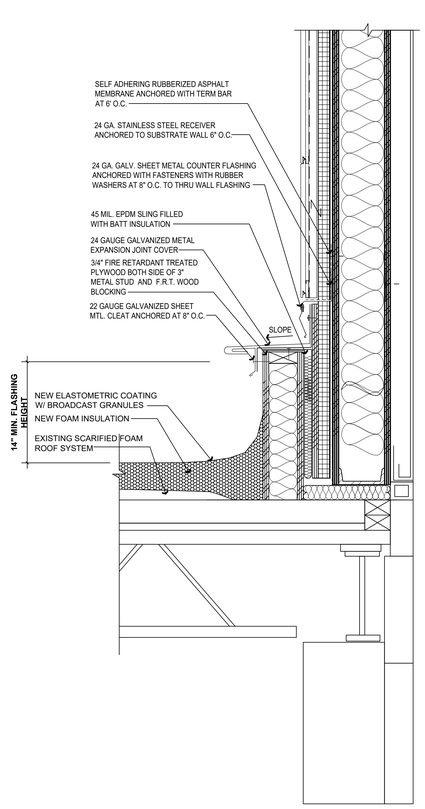
03 Expansion Joint at Duct Penetration

Scale: 1 1/2" = 1' - 0"



02 Expansion Joint at Gutter/Downspout

Scale: 1 1/2" = 1' - 0"



01 Expansion Joint at Rise Wall

Scale: 1 1/2" = 1' - 0"

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT
STATE OF TEXAS

Date of Signing 10/22/25

DRYTEC
Moisture Protection Technology Consultants

8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813

DALLAS ISD - ORG135

JOHN W. RUNYON ELEMENTARY SCHOOL

10750 Cladlerock
Dallas, Texas 75217

PERMIT SET

© CaCo Architecture LLC 2023

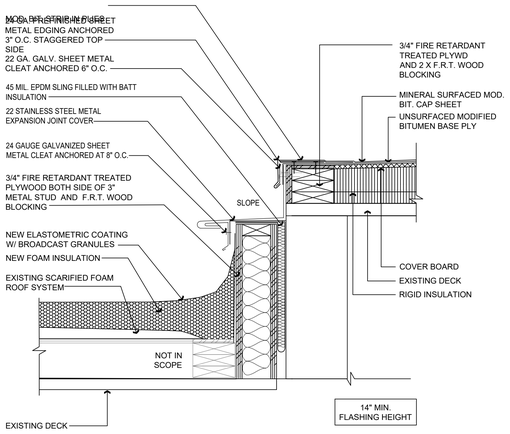
Project Number
2022.010

Issue Date
10.22.25

Revised:

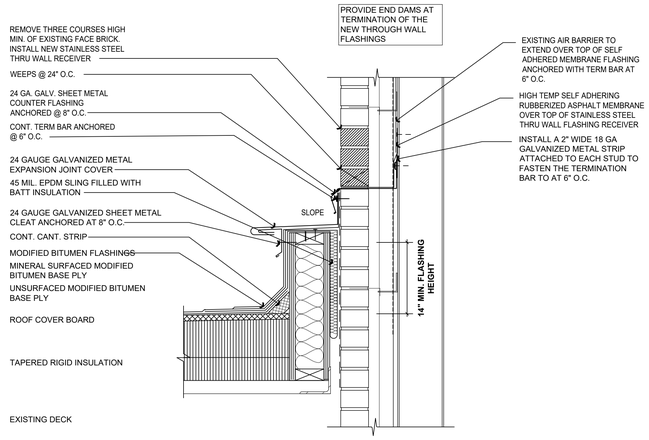
Sheet Title
DETAILS

Sheet Number
R2.02



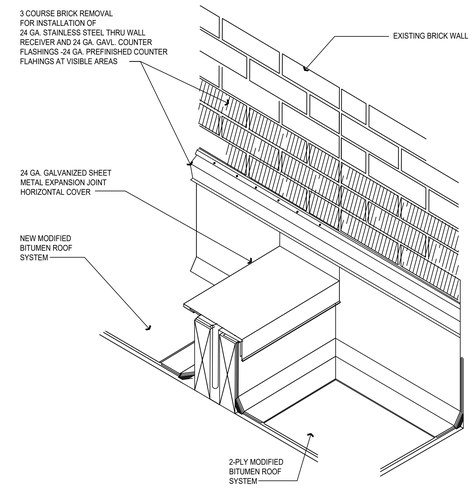
09 Expansion Joint at Level Change

Scale: 1 1/2" = 1'-0"



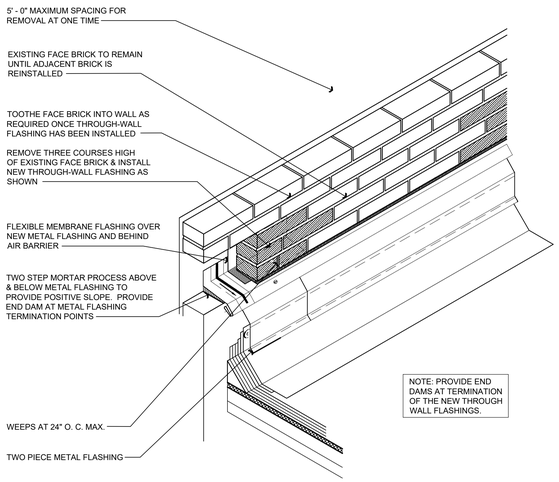
08 Expansion Joint Detail

Scale: 3" = 1'-0"



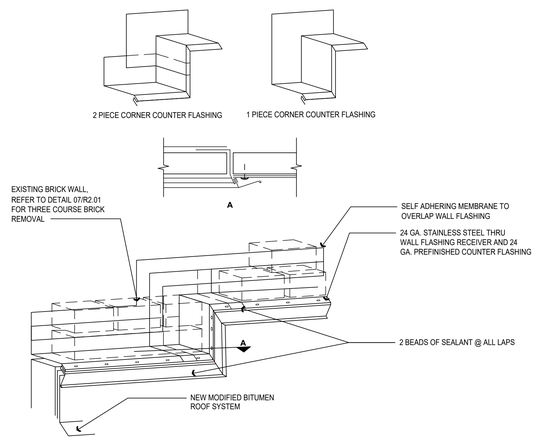
07 Exp. Joint at Rise Wall Termination

Scale: N.T.S.



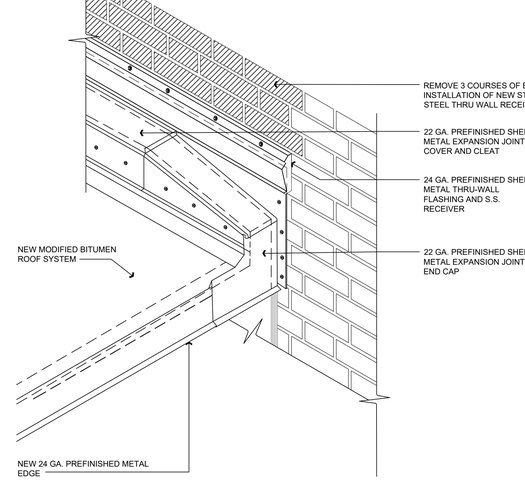
06 Three Course Brick Removal

Scale: N.T.S.



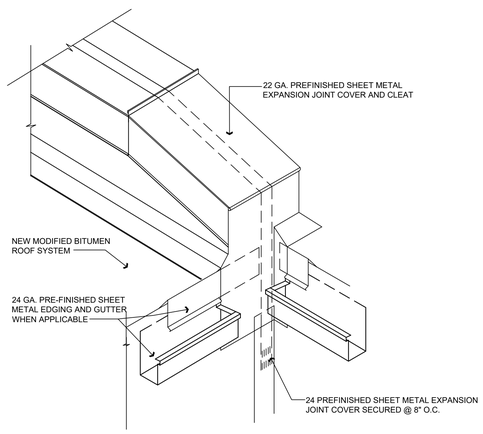
05 Step Down Flashing Detail

Scale: N.T.S.



04 Exp. Joint at Edge/Gutter

Scale: N.T.S.



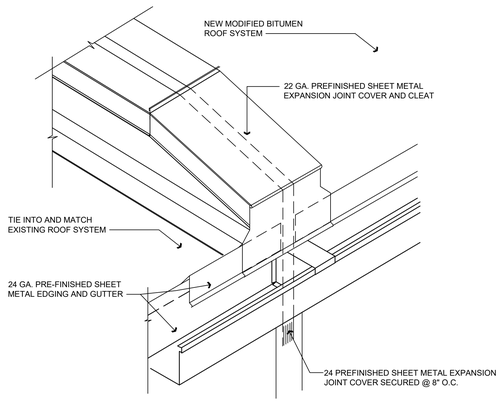
03 Exp. Joint at Edge/Gutter

Scale: N.T.S.

NOTE:

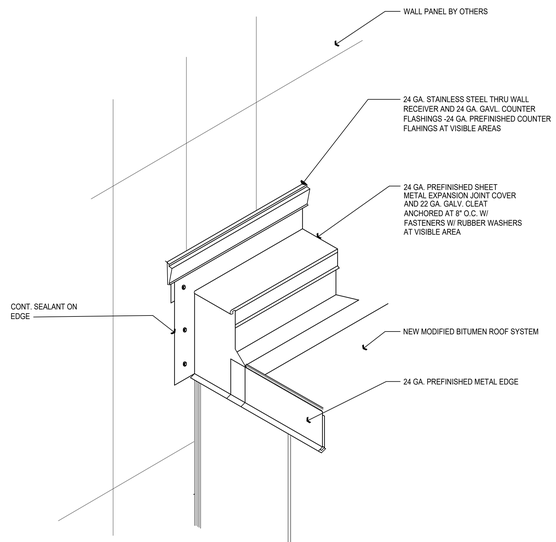
METAL ROOF DECK - MECHANICALLY FASTEN FIRST LAYER OF RIGID INSULATION.

LIGHTWEIGHT ROOF DECK - INSTALL MECHANICALLY FASTENED VENTING BASE SHEET TO DECK PRIOR TO INSTALLATION OF FIRST LAYER OF RIGID INSULATION



02 Exp. Joint at Edge/Gutter

Scale: N.T.S.



01 Exp. Joint RIse Wall Termination

Scale: N.T.S.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

REGISTERED ARCHITECT STATE OF TEXAS

Date of Signing 10/22/25

DRYTEC
Moisture Protection Technology Consultants

8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813

DALLAS ISD - ORG135

JOHN W. RUNYON ELEMENTARY SCHOOL

10750 Cladlerock
Dallas, Texas 75217

PERMIT SET

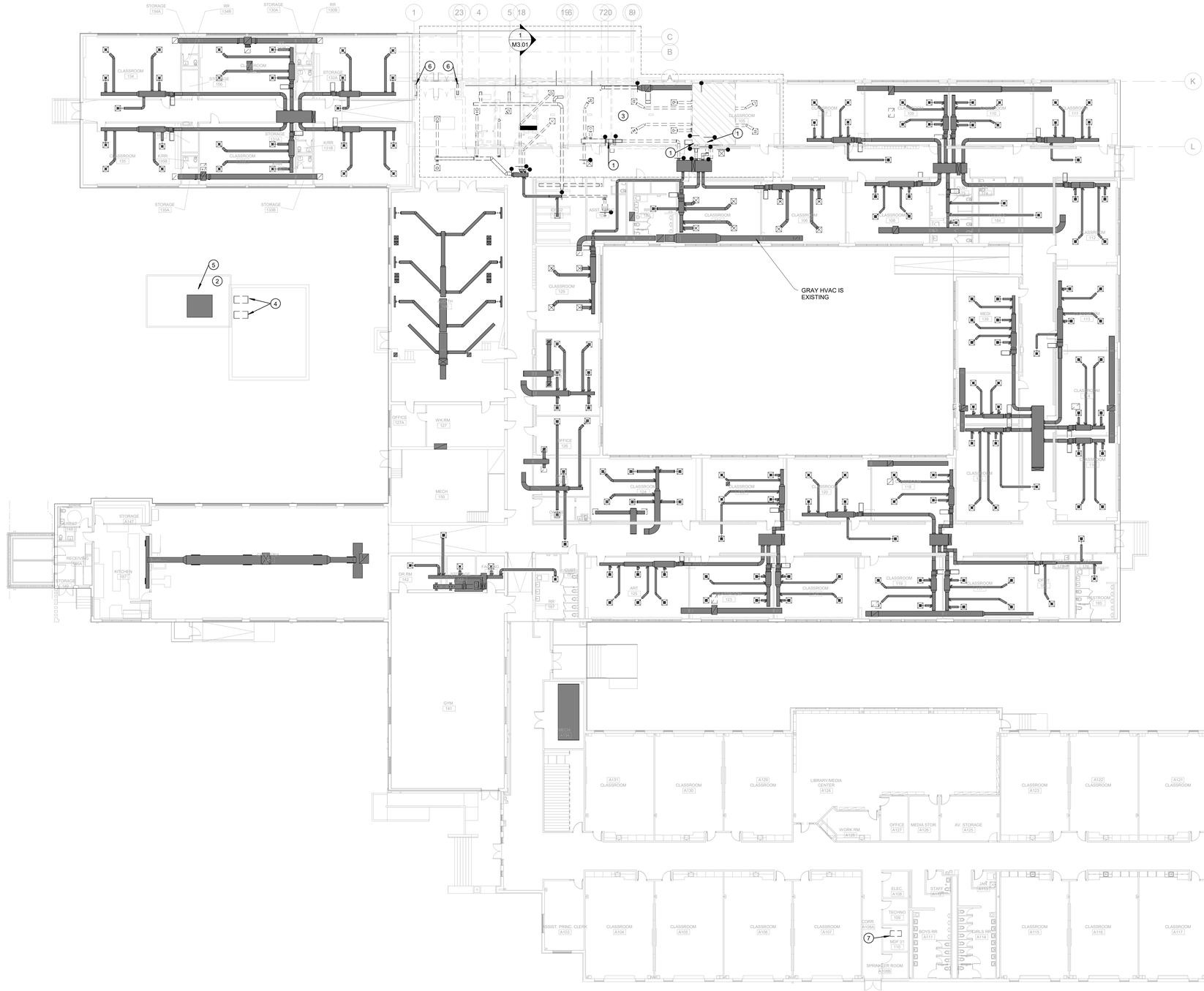
© CaCo Architecture LLC 2023

Project Number
2022.010

Issue Date
10.22.25
Revised:

Sheet Title
DETAILS

Sheet Number
R2.03



KEYED NOTES - SHEET DM2.01

1 VAV BOX TO BE RELOCATED.

2 REMOVE ALL EXISTING CONDENSER WATER PIPING FROM COOLING TOWER TO CONDENSER WATER PUMPS AND CONDENSER WATER PUMPS TO CHILLERS. REMOVE ALL DRAIN PIPING AND MAKE UP WATER PIPING.

3 IN ADMINISTRATIVE AREA, REMOVE 2 EXHAUST FANS THAT ARE SHOWN TO BE MOUNTED INSIDE OF WALLS ON 1968 CONSTRUCTION DOCUMENTS AND REMOVE ASSOCIATED EXHAUST DUCTWORK AND DIFFUSERS.

4 REMOVE BOTH EXISTING CONDENSER WATER PUMPS AND REMOVE ASSOCIATED HOUSE KEEPING PADS.

5 EXISTING COOLING TOWER TO REMAIN.

6 REMOVE CONVECTION HEATER AND ALL ASSOCIATED CONTROLS AND COORDINATE WITH OTHER TRADES TO REMOVE ANY ELECTRICAL SERVICE. REMOVE PIPING FROM HEATER TO JUST BELOW FLOOR SLAB (IN CRAWL SPACE) AND CAP THIS PIPING IN CRAWL SPACE.

7 REMOVE EXISTING AC UNIT AND ASSOCIATED CONTROLS AND REFRIGERANT PIPING. REMOVE ASSOCIATED CONDENSING UNIT ON ROOF.

1 MECHANICAL DEMOLITION PLAN - OVERALL
1/16" = 1'-0"

CITY OF DALLAS STAMP

KEYPLAN

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISON/HART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

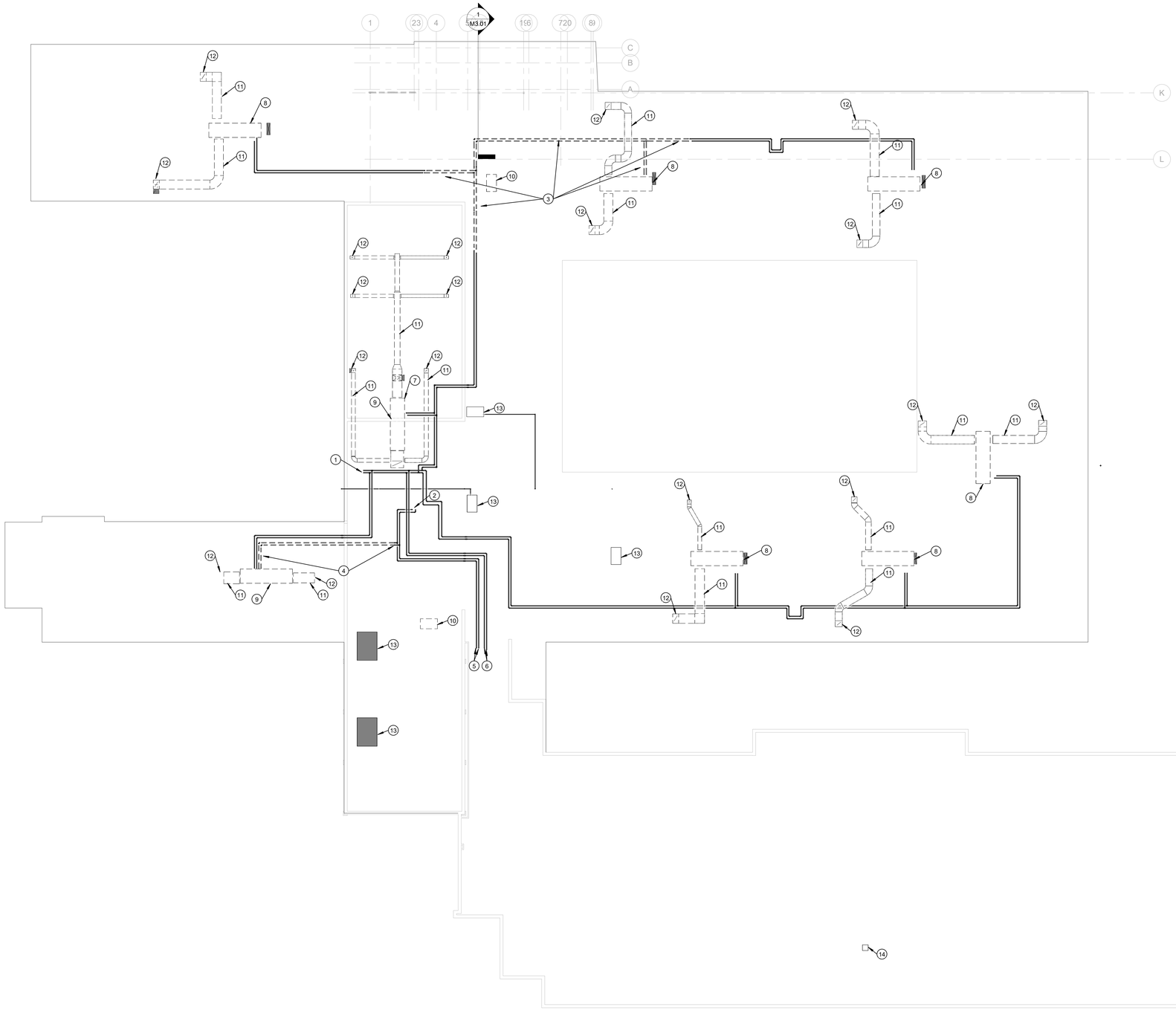
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL DEMOLITION PLAN - OVERALL

Sheet Number
DM2.01



1 ROOF LEVEL - MEP DEMOLITION PLAN
1/16" = 1'-0"

KEYED NOTES - SHEET DM2.02

1 EXISTING CHILLED WATER SUPPLY AND RETURN LINES DOWN THRU ROOF.
2 EXISTING HOT WATER SUPPLY AND RETURN LINES DOWN THRU ROOF.
3 REMOVE EXISTING CHILLED WATER LINES.
4 REMOVE EXISTING HOT WATER LINES.
5 EXISTING HOT WATER SUPPLY AND RETURN LINES TO CONTINUE TO SOUTH WING AHU AND VAV BOXES.
6 EXISTING CHILLED WATER SUPPLY AND RETURN LINES TO CONTINUE TO SOUTH WING AHU.
7 REMOVE EXISTING HOT WATER SUPPLY AND RETURN LINES TO AHU-CHW-3. JUST REMOVE THE BRANCH HOT WATER LINES TO THIS UNIT, ENSURE SERVICE TO OTHER HVAC IS NOT AFFECTED. FIELD VERIFY IF HOT WATER LINES TO THIS UNIT ARE LOCATED BELOW ROOF, PMI DID NOT SEE THESE LINES ON THE ROOF.
8 REMOVE EXISTING CHILLED WATER RTU TO BE REPLACED WITH NEW CHILLED WATER/HOT WATER RTU IN SAME LOCATION, REFER TO SHEET M2.02 FOR NEW RTU. REMOVE ALL ASSOCIATED CONTROLS. REMOVE EXISTING CURB TO BE REPLACED WITH NEW CURB.
9 REMOVE EXISTING CHILLED WATER/HOT WATER RTU TO BE REPLACED WITH NEW CHILLED WATER/HOT WATER RTU IN SAME LOCATION, REFER TO SHEET M2.02 FOR NEW RTU. REMOVE ALL ASSOCIATED CONTROLS. REMOVE EXISTING CURB TO BE REPLACED WITH NEW CURB.
10 REMOVE EXISTING DX/ GAS HEAT RTU TO BE REPLACED WITH NEW DX/ GAS HEAT RTU IN SAME LOCATION, REFER TO SHEET M2.02 FOR NEW RTU. REMOVE ALL ASSOCIATED CONTROLS. REMOVE EXISTING CURB TO BE REPLACED WITH NEW CURB.
11 REMOVE EXISTING DUCTWORK ON ROOF.
12 FOR DUCT ROUTED DOWN THRU ROOF, REMOVE DUCTWORK LOCATED INSIDE OF DUCT ROOF CURB. DUCTWORK IN CEILING PLENUM BELOW TO REMAIN AND NOT BE REMOVED.
13 EXISTING DX RTU TO REMAIN.
14 REMOVE EXISTING CONDENSING UNIT TO BE REPLACED WITH NEW CONDENSING UNIT. REMOVE EXISTING CURB AND REMOVE ASSOCIATED CONTROLS AND REFRIGERANT PIPING. REMOVE EXISTING REFRIGERANT LINE HOOD AND CURB AND REPLACE WITH NEW REFRIGERANT LINE HOOD AND CURB.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN



Sheet Title
ROOF LEVEL - MECHANICAL DEMOLITION PLAN

Sheet Number
DM2.02

HVAC GENERAL NOTES:

A. GENERAL NOTES APPLY TO ALL MECHANICAL SHEETS.
B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES.
C. ALL WORK SHALL BE IN COMPLIANCE WITH THE TENANT/OWNER/CAMPUS DESIGN STANDARDS. CONTRACTOR SHOULD BE FAMILIAR WITH STANDARDS PRIOR TO BID.
D. CONTRACTOR SHALL SPECIFICALLY LIST ANY EXCEPTIONS TO THE CONSTRUCTION DOCUMENTS IN THEIR BID.
E. DRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCOPE OF WORK SHOWN IN THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING THE SPECIFICATIONS.
G. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION OF ALL RATED STRUCTURES.
H. PROVIDE FIRE DAMPERS FOR ALL DUCT PENETRATIONS THRU FIRE RATED ASSEMBLIES. PROVIDE COMBINATION FIRE/SMOKE DAMPERS FOR ALL PENETRATIONS THRU SHAFT WALLS AND CORRIDOR WALLS.
I. THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR INSTALLATION OF THE MECHANICAL SYSTEMS.
J. COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
K. ALL SUPPLY, RETURN AND EXHAUST DUCT SIZES INDICATED ARE FREE AREA.
L. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION. REPORT ANY DISCREPANCIES TO THE OWNER/ARCHITECT IMMEDIATELY.
M. CONTRACTOR TO FIELD VERIFY ALL WALLS TO DECK AND PROVIDE TRANSFER BOOTS THRU ALL WALLS TO DECK PER DETAILS. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
N. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS AND SENSORS. COORDINATE LOCATIONS OF T-STATS AND SENSORS WITH ELECTRICAL CONTRACTOR.
O. ALL MEDIUM PRESSURE DUCTS (BOTH SQUARE AND ROUND) SHALL HAVE RADIUS ELBOWS (45 DEG. AND 90 DEG.).
P. ALL MEDIUM PRESSURE AND LOW PRESSURE DUCT WORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO SMACNA STANDARDS (MOST RECENT) AND SEAL CLASS A. MEDIUM PRESSURE DUCT SHALL BE 4" W.G. AND LOW PRESSURE DUCT SHALL BE 2" W.G.
Q. ALL SUPPLY AIR DUCT, OUTSIDE AIR INTAKE DUCT, AND GREASE EXHAUST DUCT SHALL BE INSULATED PER THE SPECIFICATIONS AND/OR SCHEDULES.
R. INDIVIDUAL DUCT RUN-OUTS TO EACH DIFFUSER SHALL BE SIZED IN ACCORDANCE TO THE DIFFUSER NECK SIZE FOUND IN THE GRILLES-REGISTERS-DIFFUSERS SCHEDULE.
S. PIPES AND DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. ROUTE AS HIGH AS PHYSICALLY POSSIBLE. OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER TRADES.
T. INSULATED FLEX DUCT IN THE MEDIUM PRESSURE SYSTEM SHALL BE UTILIZED AT INLET TO VAV BOX OR FAN POWERED BOX ONLY. LENGTH SHALL BE LIMITED TO AN OVERALL LENGTH OF TWO (2) FEET AND BE STRAIGHT RUN. INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANDED TO STRUCTURE. SUPPORTING FROM FIRE PROTECTION PIPING, ELECTRICAL CONDUIT OR CEILING SUPPORT WIRES IS NOT ACCEPTABLE.
U. VAV BOXES BOXES SHALL HAVE 42" CLEARANCE FOR CONTROL AND ELECTRICAL PANELS. WHERE BOXES ACCESS IS SHARED PROVIDE 48".
V. PROVIDE TEMPORARY HIGH EFFICIENCY FILTER MEDIA ON ALL RETURN AIR AND EXHAUST OPENINGS AT BEGINNING OF PROJECT AND REPLACED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FILTER MEDIA SHALL BE REMOVED.
W. CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO BOWDEN MODEL 270-89EP FOR ALL GYPSUM BOARD APPLICATIONS. COORDINATE SHAFT SIZE OF DAMPER WITH KIT FOR PROPER COMPATIBILITY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS INDICATED WITH GYPSUM BOARD CEILING AND COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF INSTALLATION.
X. CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS, AND BETWEEN FERROUS PIPING SYSTEMS AND NON-FERROUS CONNECTIONS TO EQUIPMENT SHALL BE MADE BY THE USE OF DIELECTRIC UNIONS, COUPLINGS OR FLANGES AS MANUFACTURED BY CRANE, EPCO, F.M. MALONEY, UNIVERSAL MANUFACTURING CO.
Y. MATERIALS USED FOR INSULATION, ACOUSTICAL LININGS, ADHESIVES, JACKETS AND COATINGS, AND COMBINATIONS OF THESE MATERIALS, SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.
Z. DUCTED AC UNITS AND WALL MOUNTED AC UNITS SHALL HAVE A PRIMARY INSULATED CONDENSATE DRAIN LINE SLOPED 1/8"/FT, EXTENDED TO NEAREST FLOOR DRAIN IN, MOP SINK, OR SINK P-TRAP. DUCTED AC UNITS AND WALL MOUNTED AC UNITS SHALL HAVE GALVANIZED SHEET METAL SECONDARY DRAIN PANS WITH HAVE LEAK DETECTION TAPE IN PAN.
AA. FOR AHU'S AND RTU'S, MECHANICAL CONTRACTOR SHALL INSTALL THE DUCTMOUNTED SMOKE DECTORS AND DIV 26 SHALL FURNISH AND CONNECT FOR SHUT DOWN OF UNIT AND OTHER CODE REQUIREMENTS.

NEW HVAC PIPING SHALL BE US DOMESTIC BLACK STEEL. FOREIGN MANUFACTURED PIPING WILL NOT BE ACCEPTED.

FOR NEW RTU'S AND AC UNITS, ROUTE CONDENSATE LINES TO NEAREST MOP SINK, FLOOR DRAIN, OR SINK P-TRAP. CONDENSATE LINES INSIDE OF BUILDING SHALL BE INSULATED.

CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO YOUNG REGUALTOR/BOWDEN FOR ALL GYPSUM BOARD APPLICATIONS, ADJUSTMENT DEVICE SHALL BE ACCESSIBLE AT FACE OF DIFFUSER AND NOT INSTALLED IN CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS INDICATED WITH GYPSUM BOARD CEILING. REFER TO DETAIL #6 ON SHEET M5.03.

DUCT DETECTORS TO BE BY NOTIFIER. NO OTHER MANUFACTURER DUCT DETECTORS WILL BE ACCEPTED. DUCT DETECTORS TO BE PROVIDED BY FIRE ALARM CONTRACTOR. SMOKE DUCT DETECTORS TO BE POWERED FROM FIRE ALARM SYSTEM.

EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE A TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.

FOR ALL HVAC UNITS, INSTALL ALL NEW FILTERS 1 PRIOR TO SUBSTANTIAL COMPLETION AND 1 WEEK PRIOR TO SIX MONTHS WARRANTY WALK.

ALL ENCLOSED ROOMS (INTERIOR AND PERIMETER) SHALL HAVE RETURN AIR PATH. ROOMS WITH ALL WALLS TO DECK SHALL HAVE LINED SHEET METAL RETURN AIR BOOTS PLACED IN WALL ABOVE CEILING SIZED FOR 500 FPM MAXIMUM. ENSURE RETURN AIR PATH FOR ALL ROOMS FROM ROOM TO UNIT SERVING ROOM, CUMULATIVELY ADD ALL RETURN AIR CFM AT EACH RETURN TRANSFER. FIRE RATED AND FIRE-SMOKE WALLS SHALL HAVE FIRE DAMPERS AND FIRE-SMOKE DAMPERS WITHIN DUCTS PENETRATING THESE WALLS PER LOCAL CODE REQUIREMENTS. DUCTS PENTRATING FLOOR SLABS SHALL HAVE FIRE-SMOKE DAMPERS. FIRE DAMPERS AND FIRE-SMOKE DAMPERS SHALL BE FRAME OUT OF AIRSTREAM TYPE. ALL MOTORIZED DAMPERS SHALL BE FRAME OUT OF AIRSTREAM TYPE.

TEST AND BALANCE ALL NEW SYSTEMS.

REFER TO KEYED NOTES ON SHEET M2.01 FOR ALL DIFFUSERS TO BE TEST AND BALANCED.

TEST AND BALANCE EXISTING VAV BOXES AND ASSOCIATED DIFFUSERS PER NOTE #8 ON SHEET M2.01. FOR THESE VAV BOXES, TEST AND BALANCE CONTRACTOR TO FIELD MEASURE MAXIMUM AIRFLOW, MINIMUM AIRFLOW, AND HEAT AIRFLOW BEFORE CONSTRUCTION STARTS, THESE VALUES TO BE REUSED AFTER CONTRUCTION IS COMPLETED, (ONLY THE MAXIMUM AIRFLOWS ARE KNOWN FOR THESE EXISTING VAV'S VIA DIFFUSER TOTALS SHOWN ON SHEET M2.01). BEFORE TEST AND BALANCING VAV BOXES, COMPARE MEASURED VALUES TO VALUES IN BMS TO SEE IF THEY MATCH TO DETERMINE IF THESE ARE ANY DISCREPANCIES. ALSO FOR THESE VAV BOXES, MEASURE HOT WATER FLOWS BEFORE CONSTRUCTION STARTS, PRESENT ALL VALUES ABOVE TO PURDY-MCGUIRE FOR OUR REVIEW BEFORE USING THESE VALUES FOR FOR BALANCING THE VAV BOXES.

FOR EXISTING AHU-10, THAT SERVES ADDITION, TEST AND BALANCE CHILLED WATER COIL TO 200 GPM AND TEST AND BALANCE HOT WATER COIL TO 32 GPM. FOR VAV BOXES THAT ARE CONNECTED TO THIS AHU, SEE TABLE ON SHEET M6.02 FOR HOT WATER FLOWS TO TEST AND BALANCE THESE COILS TO. NO AIR BALANCE IS REQUIRED FOR AHU-10 OR FOR THESE VAV BOXES.

MECHANICAL APPLICABLE CODES

- 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- NFPA STANDARDS
- CITY OF DALLAS LOCAL AMENDMENTS

CITY OF DALLAS STAMP

EXISTING AHU-10 CHILLED WATER 3 WAY VALVES, EXISTING AHU-10 HOT WATER 3 WAY VALVES, AND EXISTING VAV REHEAT HOT WATER 3 WAY VALVES ARE TO REMAIN AS IS.

- EXISTING CHILLED WATER PUMPS DO NOT HAVE VFD'S, CHILLED WATER WILL BY PASS VIA AHU-10 CHILLED WATER 3 WAY VALVE WHICH IS MORE THAN 20% OF TOTAL WATER FLOW. 20% WATER FLOW BYPASSING AND CHILLED WATER PUMP RIDING PUMP CURVE WILL PREVENT PUMP DEAD HEAD.
- EXISTING HOT WATER PUMPS DO NOT HAVE VFD'S, HOT WATER WILL BY PASS VIA AHU-10 HOT WATER 3 WAY VALVE AND FAN POWERED BOX HOT WATER 3 WAY VALVES WHICH IS MORE THAN 20% OF TOTAL WATER FLOW. 20% WATER FLOW BYPASSING AND CHILLED WATER PUMP RIDING PUMP CURVE WILL PREVENT PUMP DEAD HEAD.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 8000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL
NOTES & SYMBOLS

Sheet Number
M0.01

MECHANICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	COMPRESSED AIR PIPING AND EQUIPMENT
CWR	CONDENSOR WATER PIPING RETURN
CWS	CONDENSOR WATER PIPING SUPPLY
CHR	CHILLED WATER PIPING RETURN
CHS	CHILLED WATER PIPING SUPPLY
HS	HEATING WATER PIPING SUPPLY
HR	HEATING WATER PIPING RETURN
C	CONDENSATE DRAIN PIPING
R	REFRIGERATION PIPING
	PIPE UP
	PIPE DOWN
	BLIND FLANGE
	CONCENTRIC REDUCER OR INCREASER
	UNION
	CAPPED OR PLUGGED PIPE
	HEAT TRACE PIPE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	BALL VALVE
	WATER BALANCING COCK
	BALL VALVE WITH 3/4" HOSE THREAD ADAPTOR
	PRESSURE REDUCING VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
S	SOLENIOD VALVE
R	GAS PRESSURE REGULATOR
	CONNECT TO EXISTING
T	THERMOSTAT
C	COMBINATION HUMIDITY, CO2, TEMPERATURE SENSOR
T/H	COMBINATION TEMPERATURE & HUMIDITY SENSOR
S	REMOTE TEMPERATURE SENSOR
S	SMOKE DECECTOR
H	HUMIDISTAT
CFM	CUBIC FEET PER MINUTE (AIR FLOW)
RD	ROUND DUCT
DIA.	DIAMETER
SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
A.F.F.	ABOVE FINISH FLOOR
B.F.F.	BELOW FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
SQFT	SQUARE FEET
GPM	GALLONS PER MINUTE
E	EXISTING TO REMAIN EQUIPMENT
ER	EXISTING EQUIPMENT TO BE RELOCATED
	FAN POWERED BOX WITH ELECTRIC HEAT
	VARIABLE AIR VOLUME BOX
	VARIABLE AIR VOLUME BOX WITH HEAT
	WALL TO DECK
	1 HOUR FIRE RATED WALL
	2 HOUR FIRE RATED WALL
	3 HOUR FIRE RATED WALL
	SMOKE RATED WALL

NOTES:
1.) DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND MECHANICAL SCHEDULES FOR ACTUAL SIZES.

SYMBOL	DESCRIPTION
	24" SLOT DIFFUSER (SLOTS UTILIZED FOR EXHAUST SHALL BE HARD DUCTED OR PROVIDED WITH NEGATIVE PRESSURE RATED FLEX DUCT)
	48" SLOT DIFFUSER (SLOTS UTILIZED FOR EXHAUST SHALL BE HARD DUCTED OR PROVIDED WITH NEGATIVE PRESSURE RATED FLEX DUCT)
	24"x24" SUPPLY AIR DIFFUSER
	24"x24" RETURN AIR DIFFUSER
	24"x12" RETURN AIR GRILLE
	24"x24" EXHAUST AIR GRILLE
24"X10"	MECHANICAL DUCT
24"X10"	LINED MECHANICAL DUCT
24"X10"	RECTANGULAR DUCT UP - MITERED ELBOW
	RECTANGULAR DUCT DOWN - RADIUS ELBOW
	RECTANGULAR DUCT UP - RADIUS ELBOW
	ROUND DUCT UP
	ROUND DUCT DOWN
	MITERED ELBOW W/ TURNING VANES
	MITERED TEE W/ TURNING VANES
	MITERED TEE WITHOUT TURNING VANES
	MITERED ELBOW
	RADIUS TEE
	RADIUS ELBOW
	SPIN-IN FITTING WITH INTEGRAL DAMPER (RECTANGULAR TO ROUND)
	TWO SIDED TRANSITION (RECTANGULAR DUCT)
	ONE SIDED TRANSITION (RECTANGULAR DUCT)
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	RECTANGULAR TO ROUND TRANSITION
	SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW MEDIUM PRESS. DUCT
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW MEDIUM PRESS. DUCT
	TRANSFER AIR DUCT / RETURN BOOT
	SIDEWALL GRILLE
	SUPPLY
	RETURN
	FLEXIBLE DUCT
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER (120V)
M	MOTORIZED DAMPER (24V)
	MANUAL VOLUME CONTROL DAMPER
	REMOVE EXISTING AS INDICATED
	TERMINATION OF DEMO
	CAP EXISTING DUCT
	EXISTING TO REMAIN

CONDENSATE PIPE SIZING	
TONS	SIZE
0-20	3/4"
21-40	1"
41-90	1-1/4"

MECHANICAL INSULATION SCHEDULE

APPLICATION	INSULATION TYPE	THICKNESS	INSULATION FINISH: INDOOR CONCEALED	INSULATION FINISH: INDOOR EXPOSED INCL. MECH ROOMS	INSULATION FINISH: OUTDOOR
CHILLED WATER SUPPLY & RETURN PIPING					
INDOOR:					
1-1/4" & SMALLER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
1-1/2" & LARGER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
OUTDOOR:					
1-1/4" & SMALLER:	FIBERGLASS-6i	2"	NA	NA	3F
1-1/2" & LARGER:	FIBERGLASS-6i	2"	NA	NA	3F
HEATING WATER SUPPLY & RETURN					
INDOOR 1-1/4" & SMALLER:	FIBERGLASS-6i	1-1/2"	8F	5F	3F
INDOOR 1-1/2" & LARGER:	FIBERGLASS-6i	2"	8F	5F	3F
OUTDOOR - ALL:	FIBERGLASS-6i	3"	NA	NA	3F
CONDENSER WATER SUPPLY & RETURN PIPING					
INDOOR W/ WATER SIDE ECONOMIZER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
INDOOR W/O WATER SIDE ECONOMIZER:	NONE	0	NA	PAINT	NA
STEAM & STEAM CONDENSATE:	MINERAL-FIBER-7i	4-1/2"	10F	10F	NA
OUTDOOR:	FIBERGLASS-6i	2"	NA	NA	3F
REFRIGERANT SUCTION AND/OR HOT-GAS LINE PIPING					
INDOOR:	CELLULAR FOAM-4i	1"	0F	0F	NA
OUTDOOR:	CELLULAR FOAM-4i	2"	NA	NA	9F
				REFRIGERANT LIQUID LINES SO NOT NEED TO BE INSULATED	
MISCELLANEOUS PIPING					
AIR COND. CONDENSATION DRAIN PIPING:	CELLULAR FOAM-4i	1/2"	0F	0F	9F
GENERATOR EXHAUST PIPE & MUFFLER:	CALCIUM SILICATE-1i	4"	2F	2F	2F
EXPOSED IN HIGH FINISH PUBLIC AREAS:	SEE ABOVE	-	NA	4F	NA
STEAM AND STEAM CONDENSATE PIPING:					
INDOOR ≤ 15 PSIG (≤250°F) 3" AND SMALLER:	FIBERGLASS-6i	2-1/2"	8F	5F	NA
INDOOR ≤ 15 PSIG (≤250°F) 4" AND LARGER:	FIBERGLASS-6i	3"	8F	5F	NA
INDOOR 16 PSIG TO 120 PSIG 3/4":	FIBERGLASS-6i	3"	8F	5F	NA
INDOOR 16 PSIG TO 120 PSIG 1" AND 1-1/4":	FIBERGLASS-6i	4"	8F	5F	NA
INDOOR 16 PSIG TO 120 PSIG 1-1/2" AND LARGER:	FIBERGLASS-6i	4-1/2"	8F	5F	NA
CHILLED WATER PUMPS:	CELLULAR FOAM-4i	2"	0F	0F	9F
HEATING WATER PUMPS:	CELLULAR FOAM-4i	2"	0F	0F	9F
COND. WATER PUMPS W/ WATER SIDE ECONOMIZER:	CELLULAR FOAM-4i	1"	0F	0F	9F
CHILLED COMPRESSION/EXP. TANK, AIR SEPARATORS, HEAT EXCHANGERS, FILTERS, STRAINERS, VALVES, AND OTHER CHILLED WATER ACCESSORIES:	CELLULAR FOAM-4i	2"	0F	0F	9F
HEATING WATER COMPRESSION/EXP. TANK, AIR SEPARATORS, HEAT EXCHANGERS, FILTERS, STRAINERS, VALVES, AND OTHER ACCESSORIES:	FIBERGLASS-2i OR 6i	2"	8F	5F	3F
HEATING WATER - STEAM HEAT EXCHANGERS:	FIBERGLASS-2i OR 6i	3"	8F	5F	3F
DUCTWORK					
CONCEALED SUPPLY & OA DUCTS:	FIBERGLASS 3i, SEE BOX NOTE BELOW FOR LINED RTU DUCTWORK	2"	6F	NA	NA
EXPOSED SUPPLY DUCTS AND OUTSIDE AIR DUCTS IN PUBLIC AREAS:	FIBERGLASS 5i	1.5"	NA	11F	NA
	FIBERGLASS 2i	2"	NA	6F	NA
EXPOSED SUPPLY/OA DUCTS, AND PLENUMS IN MECH ROOMS/ BOH AREAS:	FIBERGLASS 2i	1"	NA	6F	NA
SUPPLY, RETURN AND OUTSIDE AIR DUCTS LOCATED OUTDOORS::	FIBERGLASS 5i & 2i	TOTAL R-VALUE OF R-16	NA	NA	7F
KITCHEN HOOD EXHAUST:	FIREMASTER FASTWRAP	2 LAYERS OF 1-1/2"	NA	NA	NA

INSULATION MATERIALS:
1i. CALCIUM SILICATE - MAXIMUM K FACTOR AT 500 DEGREES F SHALL BE 0.55, MUST ASTM C411 TO 1200 DEGREES F, AND MUST MEET NFPA 255 AND UL 723 FOR 0/0 FLAME SPREAD AND SMOKE DEVELOPED.
2i. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS BOARD WITH A DENSITY OF 3 LBS/FT3. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.24 AND A TEMPERATURE LIMIT OF 250 DEGREES F (FACED) AND 450 DEGREES F (UNFACED). NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
3i. FIBERGLASS DUCT WRAP - MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.30, MUST PASS ASTM C411 TO 250 DEGREES F FACED. DENSITY SHALL BE 0.75 LBS/FT3. NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.
4i. CELLULAR FOAM - EQUAL TO APARMAFLEX TUBES OR SHEETS, AS APPLICABLE TO INSTALLATION. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.28. MAXIMUM OPERATING TEMPERATURE OF 200 DEGREES F.. MUST MEET NFPA 255 AND UL723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED AND MUST BE FREE OF ANY CFCS,HFCS, OR HCFCS
5i. FIBERGLASS DUCT LINER W/ ANTIMICROBIAL RESISTANT COATING OR CLOSED-CELL ELASTOMERIC DUCT LINER - REFER TO SECTION 23313 FOR ADDITIONAL INFORMATION
6i. FIBERGLASS PIPE INSULATION ONLY WHERE SPECIFICALLY CALLED FOR ON DRAWINGS OR IN SPECS - MAXIMUM K FACTOR AT 100 DEGREES F SHALL BE 0.24, MUST PASS ASTM C411 TO 850 DEGREES F. DENSITY SHALL BE 3.5 LBS/FT3/ NFPA 255 AND UL 7723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II.
NA. NOT APPLICABLE OR NONE REQUIRED.

FINISH TYPES
0F. NO FINISHES REQUIRED.
1F. 0.010" T-304 STAINLESS STEEL JACKETING -- CORRUGATED. PROVIDE 3/16" CORRUGATED ROLL JACKETING FOR PIPING AND TANKS LESS THAN 6 FEET DIAMETER AND DEEP CORRUGATED SHEETS FOR DIAMETERS LARGER THAN 6 FEET.
2F. 0.010" T-304 STAINLESS STEEL JACKETING -- SMOOTH FINISH.
3F. CORRUGATED ALUMINUM -- 0.016" UP THROUGH 24" PIPE SIZE, 0.024" LARGER THAN 24".
4F. SMOOTH ALUMINUM -- 0.016" UP THROUGH 12" PIPE SIZE, 0.024" LARGER THAN 12".
5F. 20-MIL PVC (25 FLAME SPREAD AND 50 SMOKE DEVELOPED.)
6F. FOIL/REINFORCED/KRACT JACKET (VAPOR BARRIER).
7F. 1/4-INCH WEATHERPROOF MASTIC WITH GLASS MESH REINFORCEMENT. SLOPE TOP OF DUCT MINIMUM OF 1/4" PER FOOT TO PREVENT PONDING.
8F. WHITE ALL-SERVICE JACKET (VAPOR BARRIER).
9F. WATER BASED LATEX ENAMEL WEATHER RESISTANT AND UV RESISTANT FINISH EQUAL TO ARMAFLEX WB FINISH
10F. 125 MILS THICK EXTRUDED, BLACK, HIGH DENSITY POLYETHYLENE (HDPE). INNER SURFACE SHALL BE OXIDIZED BY MEANS OF CORONA OR FLAME TREATMENT.
11F PAINT GRIP FINISH

NA. NOT APPLICABLE OR NONE REQUIRED.

FOR EACH NEW RTU, INTERNALLY LINE ALL NEW SUPPLY AIR DUCT. INTERNALLY LINE ALL NEW RETURN AIR DUCTWORK. INDOOR RETURN DUCT LINER TO BE 1", REFER TO SCHEDULE ABOVE FOR SUPPLY AIR DUCT LINER REQUIREMENTS.

CRAWL SPACE DUCTS LOCATED IN CEILING PLENUMS AND IN SHAFTS TO HAVE EXTERNAL WRAP INSULATION.

PROVIDE HEAT TRACE AND ALUMINUM JACKET FOR ALL NEW CHILLED WATER PIPING, NEW HOT WATER PIPING, NEW CONDENSER WATER PIPING, NEW COOLING TOWER MAKEUP WATER PIPING, COOLING TOWER DRAIN LINE PIPIING, AND COOLING TOWER FILTER/SWEEPER PIPING LOCATED OUTDOORS. HEAT TRACE TO BE RAYCHEM 8XL (8 WATTS PER FOOT) 120V/1 PH., INSTALL PER MANUFACTURER'S INSTRUCTIONS.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers

17300 North Dallas Parkway
Suite 8000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL
NOTES & SYMBOLS

Sheet Number
M0.02

MEP SHARED SYSTEM COORDINATION SCOPE OF WORK MATRIX

SYSTEM OR COMPONENT	FURNISHED BY	INSTALLED BY
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS		
Conduit for Fire Alarm Wiring	E	E
Conduit for Controls Wiring	TC	TC
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS	M	M
Duct Mounted Smoke Detectors	FA	M
Area Type Smoke Detectors	FA	FA
Fire Alarm Shut-Down Interlock Modules	FA	TC
Motorized Control Dampers	MANUFACTURER	MANUFACTURER
24 Volt Power to Dampers	TC	TC
Damper Actuator	TC	M
VRV FAN COIL UNITS AND CONDENSING UNITS		
24 Volt DDC Controllers	TC AND MANUF.	MANUFACTURER
24 Volt Wiring from Transformer to all Controllers	MANUFACTURER	TC
Control Wiring Between FCU Box and Thermostat	MANUFACTURER	TC
FIRE ALARM		
Fire Alarm Panel (FAP) and Fire Alarm Boosters	FA	FA
Fire Alarm System Conduits	FA	FA
120 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Panel	E	E
120 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Boosters	E	E
MOTORIZED FIRE & COMBINATION FIRE/SMOKE DAMPERS		
Motorized Fire & Combination Fire/Smoke Dampers	M	M
Control Conduit	E	E
Control Wiring	FA	FA
Power Conduit	E	E
Power Wiring	E	E
LIGHTING CONTROL		
Lighting Control Panel	E	E
Lighting Control Panel to FMS Interface Card	MANUFACTURER	MANUFACTURER
Control Wiring to Master Lighting Control Panel Interface Card from FMS	TC	TC
Control Wiring Between Lighting Control Panels	E	E
Satellite Lighting Control Panels	E	E
Override Switch Wiring	E	E
Lighting Control Panel Override Switches	E	E
Lighting Control Panel Programming	E	E

M = MECHANICAL SUB-CONTRACTOR

E = ELECTRICAL SUB-CONTRACTOR

FA = FIRE ALARM SUB-CONTRACTOR

TC = TEMPERATURE CONTROLS/EMS SUB-CONTRACTOR

D= TELECOMMUNICATIONS CONTRACTOR

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

BASE DESIGN CRITERIA LIST

OUTDOOR DESIGN CONDITIONS FOR CITY, STATE

SUMMER:
- DRY BULB TEMPERATURE = 101 DEG F
- WET BULB TEMPERATURE = 75 DEG F

WINTER:
- DRY BULB TEMPERATURE = 22 DEG F

INDOOR DESIGN CONDITIONS

SUMMER:
- DRY BULB TEMPERATURE = 72 - 74 DEG F
- HUMIDITY = 50%

WINTER:
- DRY BULB TEMPERATURE = 70 - 72 DEG F
- HUMIDITY = NO MINIMUM

INDOOR DESIGN CONDITIONS FOR IT/IDF/MDF ROOMS

SUMMER:
- DRY BULB TEMPERATURE = 70 DEG F
- WET BULB TEMPERATURE = 63 DEG F
- HUMIDITY = 50%

WINTER:
- DRY BULB TEMPERATURE = 70 DEG F
- HUMIDITY = NO MINIMUM

HVAC CHILLED WATER PROVISIONS

- CHILLED WATER SUPPLY TEMPERATURE = 42 DEG F
- CHILLED WATER RETURN TEMPERATURE = 54 DEG F
- CHILLED WATER SYSTEM DELTA TEMPERATURE= 12 DEG F

HVAC HEATING WATER PROVISIONS

- HEATING WATER SUPPLY TEMPERATURE = 160 DEG F
- HEATING WATER RETURN TEMPERATURE = 140 DEG F
- HEATING WATER SYSTEM DELTA TEMPERATURE= 20 DEG F

CHPS MECHANICAL REQUIREMENTS:

NOTE THAT THESE CHPS REQUIREMENTS APPLY TO SCOPE IN THE NEW ADDITION ONLY.

EQ 1.1 - ENHANCED FILTRATION
1. PROVIDE A MINIMUM MERV 13 FILTERS.

EQ 2.1 - POLLUTANT AND CHEMICAL SOURCE CONTROL
1. TO COMPLY WITH EQ 2.1.4, PROVIDE ELECTRIC IGNITION FOR ALL GAS-FIRED EQUIPMENT.

EQ 3.0 - OUTDOOR MOISTURE MANAGEMENT
1. EVAPORATION DRIP PANS FOR CONDENSATE ARE NOT ALLOWED. PRIMARY INTENT FOR CONDENSATE REMOVAL IS GRAVITY DRAIN.
2. AFTER CONDENSATE GRAVITY DRAINS ARE INSTALLED, MECHANICAL CONTRACTOR SHALL PROVIDE FUNCTIONAL TESTING TO CONFIRM THAT THE DRAIN TRAP AND GRAVITY DRAINAGE SYSTEMS HAVE BEEN TESTED TO SHOW THAT WATER FLOWS OUT AND IS NEITHER BLOCKED NOR FLOWS INTO THE BUILDING. MECHANICAL CONTRACTOR TO PROVIDE A SIGNED LETTER FOR CHPS CONFIRMING THE RESULTS OF TESTING.

EQ 5.1 - CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN
1. TO COMPLY WITH EQ 5.1.1: DURING CONSTRUCTION, CONTRACTOR SHALL MEET THE RECOMMENDED DESIGN APPROACHES OF THE SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION 2007, CHAPTER 3. INCLUDE THE EROSION AND SEDIMENTATION CONTROL MEASURES TO MINIMIZE SITE DUST DURING OCCUPIED RENOVATIONS. FOR DUST PROTECTION, TURN THE VENTILATION SYSTEM OFF, AND PROTECT HVAC SUPPLY AND RETURN OPENINGS FROM DUST INFILTRATION DURING DUST PRODUCING ACTIVITIES (E.G. DRYWALL INSTALLATION AND FINISHING). PROVIDE TEMPORARY VENTILATION AS REQUIRED.
2. TO COMPLY WITH EQ 5.1.2: CONTRACTOR SHALL MEET THE SMACNA GUIDELINES FOR "DUCT CLEANLINESS FOR NEW CONSTRUCTION GUIDELINES" ACOORDING TO ADVANCED LEVELS OF CLEANLINESS. OF SPECIFIC IMPORTANTANCE ARE THE FOLLOWING:
   A. DUCTWORK SHALL BE SEALED WHEN TRANSPORTED TO THE CONSTRUCTION SITE.
   B. STORE DUCTWORK IN CLEAN, DRY CONDITIONS AND KEEP SEALED WHILE STORED.
   C. WIPE DOWN INTERNAL SURFACES OF DUCTWORK IMMEDIATELY PRIOR TO INSTALLATION TO REMOVE DUST.
   D. SEAL OPEN ENDS ON COMPLETED DUCTWORK AND OVERNIGHT WORK-IN-PROGRESS.
   E. DURING INSTALLATION, PROTECT DUCTWORK WAITING TO BE INSTALLED WITH SURFACE WRAPPING.
   F. DURING CONSTRUCTION, SEAL HVAC SUPPLY AND RETURN OPENINGS TO PROTECT THEM FROM CONSTRUCTION DUST INFILTRATION (E.G. FROM DRYWALL INSTALLATION OR WOOD FLOOR SANDING).

EQ 17.1 - BUILDING ENVELOPE INTEGRITY
1. ANY WALL, FLOOR, OR CEILING OPENINGS THAT ARE CORED, DRILLED, OR CUT OUT DURING CONSTRUCTION MUST BE SEALED AND COMPLETELY CLOSED UP TO PREVENT THE FLOW OF AIR OR WATER THROUGH THE OPENING. COORDINATE WITH GC, ELECTRICAL CONTRACTOR, AND PLUMBING CONTRACTOR AS NEEDED.

EE 4.1 - ENVIRONMENTALLY PREFERABLE REFRIGERANTS
1. USE NO CFC-BASED REFRIGERANTS.
2. HCFC REFRIGERANTS ARE PERMITTED ONLY IF BOTH THE GLOBAL WARMING POTENTIAL (GWP) IS LESS THAN 150 (BASED ON A 100 YEAR TIME HORIZON) AND THE OZONE DEPLETION POTENTIAL (ODP) IS LESS THAN OR EQUAL TO 0.02.
3. HFC REFRIGERANTS ARE ALLOWED AND PREFERENCE SHOULD BE GIVEN TO LOW GWP REFRIGERANTS.

FOR CHILLED WATER AND HOT WATER HVAC SYSEMS, ADD HOFFMAN VALVES AT ALL HIGH POINTS IN SYSTEMS.

ALL HOUSE KEEPING PADS TO BE 3" LARGER ON ALL SIDES THAN EQUIPMENT MOUNTED ON PAD.

DISD PHASING NOTES:

A. THE CONTRACTOR SHALL COORDINATE WITH THE GC TO PRODUCE A PHASING PLAN. THE FOLLOWING NOTES ARE PER DISD'S DIRECTION AND SHALL BE ACCOUNTED FOR IN THE PHASING PLAN.

B. FOR ALL RENOVATION SCOPE, THE CONTACTOR TO PERFORM ALL WORK IN EVENING HOURS, WEEKENDS AND / OR HOLIDAYS. NO INDOOR WORK ALLOWED DURING SCHOOL HOURS.

C. FOR ALL RENOVATION SCOPE, THE OUTDOOR WORK COULD BE ALLOWED DURING SCHOOL HOURS IF OK BY DISD SAFETY AND SCHOOL MANAGEMENT.

D. CONTRACTOR MUST TEST EXISTING ACCESS CONTROL, SECURITY, PUBLIC ADDRESS & FIRE ALARM SYSTEMS PRIOR TO START OF ANY WORK. IF ANY DEFICIENCY FOUND, BRING IT TO AECOM PM ATTENTION IN WRITING. IF CONTRACTOR CHOOSE TO START THE WORK WITHOUT TESTING THESE EXISTING SYSTEMS, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THESE SYSTEMS AT NO COST TO THE OWNER.

E. CONTRACTOR MUST TAKE SCREEN SHOT OF EXISTING HVAC CONTROL SYSTEM PRIOR TO START OF ANY WORK. IF ANY EQUIPMENT / CONTROL FOUND TO BE NOT WORKING, NOTIFY AECOM PROJECT MANAGER IN WRITING. IF CONTRACTOR CHOOSE TO START THE WORK WITHOUT CHECKING THE EXISTING HVAC CONTROL SYSTEMS, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE SYSTEM AT NO COST TO THE OWNER.

F. THE EXISTING SYSTEMS (PA, FA, ACCESS CONTROL, SECURITY & HVAC CONTROL) MUST STAY OPERATIONAL THROUGHOUT THE CONSTRUCTION PHASE UNTIL THE NEW SYSTEMS ARE ACTIVATED.

G. AFTER SWITCHING OVER TO THE NEW SYSTEM (PA, FA, ACCESS & SECURITY), THE CONTRACTOR TO REMOVE THE OLD SYSTEM DEVICES IN ITS ENTIRETY INCLUDING ALL RELATED COMPONENTS. CONTRACTOR TO PATCH / PAINT ALL DAMAGED AREA, AFTER THE REMOVAL OF THE EXISTING DEVICES INCLUDING CONDUITS.

H. BEFORE ANY TRENCH EXCAVATION STARTS, THE GC SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL CONNECTION POINTS OF ALL UNDERGROUND UTILITIES WHERE NEW WORK WILL BE CONNECTED TO EXISTING LINES SERVICES. FAILURE TO DO SO WILL RESULT IN HOLDING THE GC RESPONSIBLE FOR PROVIDING A MODIFIED SCOPE OF WORK EQUAL IN QUANTITIES TO THAT IN THE BID DOCUMENTS.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers

17300 North Dallas Parkway
Suite 8000
Dallas, TX 75248-1147
Firm Registration # F-1511

Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL
NOTES & SYMBOLS

Sheet Number
M0.03



1 MECHANICAL PLAN - CRAWLSPACE - OVERALL
1/16" = 1'-0"

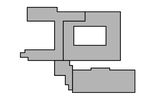
KEYED NOTES - SHEET M2.00

1 12"X12" EXHAUST DUCT UP WITH FIRE-SMOKE DAMPER AT FLOOR SLAB.

2 SUPPORT FAN FROM STRUCTURE ABOVE WITH SPRING ISOLATORS AND PROVIDE CANVAS CONNECTOR FOR DUCT CONNECTION.

CITY OF DALLAS STAMP

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers

17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

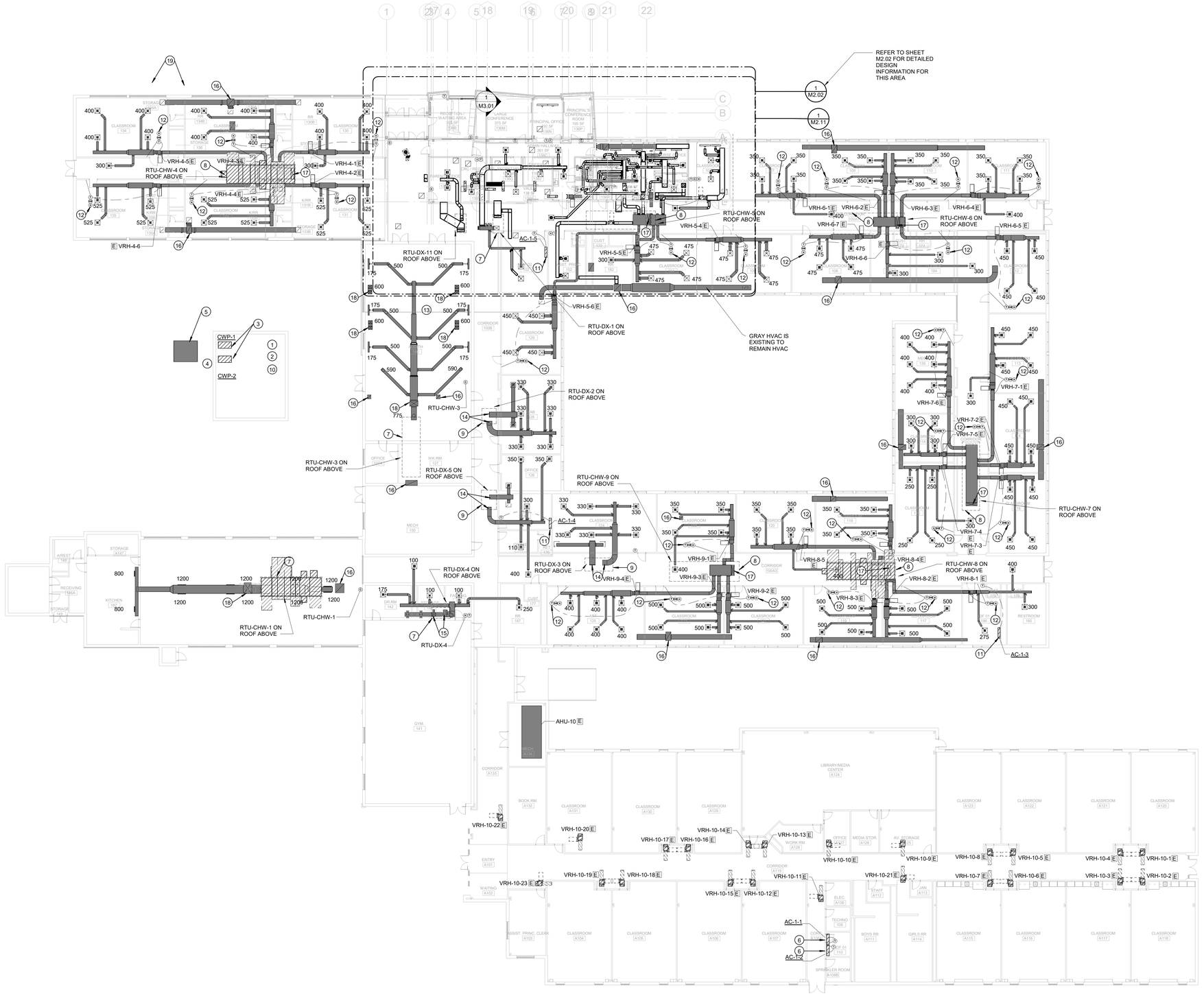
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL PLAN - CRAWLSPACE - OVERALL

Sheet Number
M2.00



KEYED NOTES - SHEET M2.01

1 REMOVE ALL EXISTING CONDENSER WATER PIPING AND REPLACE WITH NEW CONDENSER WATER PIPING FROM CONDENSER WATER PUMPS TO COOLING TOWER AND CONDERNSER WATER PUMPS TO CHILLERS. REFER TO SHEET MEP7.02 FOR CONDENSER WATER PIPING ROUTING.

2 PROVIDE AND INSTALL NEMA 3 ENCLOSURES FOR ALL VFDS IN MECHANICAL ROOM.

3 REMOVE BOTH EXISTING CONDENSER WATER PUMPS AND REMOVE ASSOCIATED HOUSE KEEPING PADS AND PROVIDE NEW PUMPS AS SHOWN AND NEW HOUSE KEEPING PADS.

4 REPLACE ALL MAKE UP WATER PIPING AND DRIAN PIPING FROM COOLING TOWER TO CONDENSER WATER PUMP BUILDING. REFER TO SHEET MEP7.02 AND PLUMBING SHEETS FOR NEW MAKEUP WATER LINE AND NEW DRAIN LINE REQUIREMENTS AND ROUTING.

5 EXISTING COOLING TOWER TO REMAIN.

6 REPLACE EXISTING CASSETTE AC UNIT WITH NEW WALL MOUNTED TYPE VRF SPLIT SYSTEM. PROVIDE WALL MOUNTED TYPE VRF SPLIT SYSTEM. PROVIDE LEAK DETECTION EQUAL TO LIEBERT (24V). PROVIDE PAN UNDER UNIT WITH LEAK DETECTION IN PAN. REFER TO DETAIL 7 ON SHEET M5.03. CONDENSATE PUMP IS NOT ALLOWED PER DISD. REFER TO PLUMBING SHEETS FOR CONDENSATE LINE SCOPE.

7 TEST AND BALANCE ALL DIFFUSERS CONNECTED TO THIS ROOF TOP UNIT ABOVE. EXISTING RTU TO BE REPLACED WITH A NEW RTU.

8 TEST AND BALANCE ALL VAV BOXES AND ALL DIFFUSERS CONNECTED TO THIS ROOF TOP UNIT ABOVE. EXISTING RTU TO BE REPLACED WITH A NEW RTU BEFORE CONSTRUCTION STARTS MEASURE ALL VALUES LISTED IN BOX NOTE ON SHEET M001 AND PROVIDE THIS INFORMATION TO PURDY-MCGUIRE.

9 ROOF TOP UNIT ABOVE IS EXISTING TO REMAIN, TEST AND BALANCE OF DIFFUSERS IS NOT REQUIRED. DIFFUSER AIRFLOWS SHOWN FOR REFERENCE ONLY.

10 PROVIDE DISD APPROVED NEW CHEMICAL FEED SYSTEM TO REPLACE EXISTING CHEMICAL FEED SYSTEM FOR COOLING TOWER CONDENSER WATER SYSTEM.

11 PROVIDE WALL MOUNTED TYPE VRF SPLIT SYSTEM. PROVIDE LEAK DETECTION EQUAL TO LIEBERT (24V). PROVIDE PAN UNDER UNIT WITH LEAK DETECTION IN PAN. REFER TO DETAIL 7 ON SHEET M5.03. CONDENSATE PUMP IS NOT ALLOWED PER DISD. REFER TO PLUMBING SHEETS FOR CONDENSATE LINE SCOPE. SET AC THERMOSTAT SET POINT TEMPERATURE 2 DEGREES HIGHER THAN COOLING TEMPERATURE SETPOINT FOR VAV SERVING SAME ROOM.

12 TEMPERATURE SENSOR SHOWN IS EXISTING TO REMAIN. CO2 SENSOR AND HUMIDITY SENSOR ARE NEW THAT NEED TO BE ADDED.

13 PMI OBSERVED DURING SURVEY THAT THERE ARE 24"X4" DIFFUSERS IN AUDITORIUM INSTEAD OF SLOT DIFFUSERS AND ROUND DIFFUSERS AS SHOWN ON EXISTING PLANS PROVIDED TO US AND CURRENTLY SHOWN ON THIS FLOOR PLAN. EXISTING DIFFUSERS ARE LOUD, AFTER EXISTING DUCTWORK AND ALL EXISTING DIFFUSER NECK SIZES ARE VERIFIED, COORDINATE WITH PMI TO VERIFY IF ADDITIONAL DIFFUSERS NEED TO BE ADDED TO REDUCE NOISE LEVELS. INCLUDE COST SCOPE TO ADD FOUR TYPE TITUS TMS DIFFUSERS WITH 12" NECKS AND ADD ASSOCIATED DUCT WORK TO CONNECT DIFFUSERS TO EXISTING DUCTWORK.

14 EXISTING SUPPLY AIR AND RETURN AIR DUCTS UP TO EXISTING TO REMAIN ROOF TOP UNIT ON ROOF ABOVE.

15 EXISTING SUPPLY AIR AND RETURN AIR DUCTS UP TO NEW ROOF TOP UNIT REPLACING EXISTING ROOF TOP UNIT ON ROOF ABOVE. MODIFY EXISTING SUPPLY AND RETURN AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW ROOF TOP UNIT.

16 EXISTING RETURN AIR DUCT UP TO CONNECT TO NEW RETURN AIR DUCT ON ROOF ABOVE. MODIFY EXISTING RETURN AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW RETURN AIR DUCTWORK ON ROOF LEVEL.

17 EXISTING SUPPLY AIR DUCT UP TO CONNECT TO NEW ROOF TOP UNIT REPLACING EXISTING ROOF TOP UNIT ON ROOF ABOVE. MODIFY EXISTING SUPPLY AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW ROOF TOP UNIT.

18 EXISTING SUPPLY AIR DUCT UP TO CONNECT TO NEW SUPPLY AIR DUCT ON ROOF ABOVE. MODIFY EXISTING SUPPLY AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW SUPPLY AIR DUCTWORK ON ROOF LEVEL.

19 DISD TO CONFIRM WHICH ROOM THAT WASHER DRYER SCOPE WILL BE IN, WILL BE ONE OF THE FOLLOWING ROOMS : 132, 133, 134, OR 135. DISD TO ALSO CONFIRM IF THIS IS A NEW WASHER DRYER LOCATION OR AN EXISTING LOCATION THAT IS TO HAVE A NEW DRYER VENT DUCT. FOR SCOPE COST PROVIDE 4" DRYER DUCT FROM DRYER TO ROOF WITH GOOSE NECK DUCT ON ROOF LEVEL. IN CASE THERE IS EXISTING DRYER DUCT, INCLUDE SCOPE COST TO REMOVE EXISTING DRYER DUCT AND ROOF VENT. FOR ALL DRYER DUCTWORK, DO NOT HAVE ANY SCREWS OR ANYTHING ELSE PROTRUDING INTO DRYER DUCT THAT COULD CATCH LINT AND PROVIDE AN ACCESS DOOR EVERY 10'.

PROVIDE HEAT TRACE AND ALUMINUM JACKET FOR ALL NEW CONDENSER WATER PIPING, NEW COOLING TOWER MAKEUP WATER PIPING, COOLING TOWER DRAIN LINE PIPIING, AND COOLING TOWER FILTER/SWEEPER PIPING LOCATED OUTDOORS. HEAT TRACE TO BE RAYCHEM 8XL (8 WATTS PER FOOT) 120V/1 PH., INSTALL PER MANUFACTURER'S INSTRUCTIONS.

CITY OF DALLAS STAMP

KEYPLAN

1 MECHANICAL PLAN - OVERALL
1/16" = 1'-0"

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

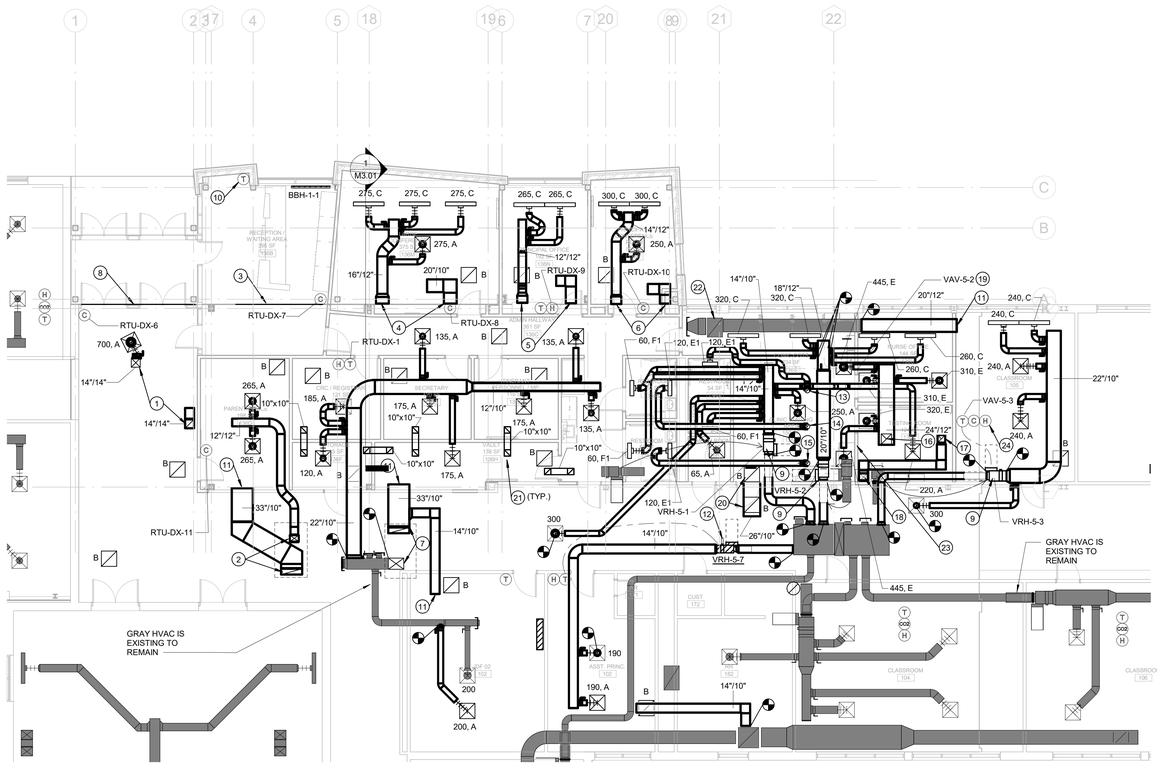
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL PLAN - OVERALL

Sheet Number
M2.01



1 MECHANICAL PLAN - ENLARGED
1/8" = 1'-0"

KEYED NOTES - SHEET M2.02

1 SUPPLY AIR AND RETURN AIR DUCTS UP TO RTU-DX-6 ON ROOF ABOVE.

2 SUPPLY AIR AND RETURN AIR DUCTS UP TO RTU-DX-11 ON ROOF ABOVE. MODIFY EXISTING SUPPLY AND RETURN AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW ROOF TOP UNIT.

3 PROVIDE A WALL MOUNTED CONTINUOUS FLOW BAR DIFFUSER TYPE F WITH 2 SLOT OPENINGS AT 3" WIDE EACH. REFER TO SHEET MEP2.01 FOR RTU-DX-7 SUPPLY AND RETURN DUCTS ON ROOF THAT ARE TO CONNECT TO THIS DIFFUSER. SUPPLY AIRFLOW TO BE SET AT 730 CFM. ENSURE THAT SUPPLY AND RETURN DUCTS ARE TIGHTLY SEALED TO DIFFUSER. BLANK OFF INACTIVE SECTIONS OF DIFFUSER AND SEAL TIGHTLY.

4 REFER TO SHEET MEP2.01 FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTS TO CONNECT TO RTU-DX-8 ON ROOF.

5 REFER TO SHEET MEP2.01 FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTS TO CONNECT TO RTU-DX-9 ON ROOF.

6 REFER TO SHEET MEP2.01 FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTS TO CONNECT TO RTU-DX-10 ON ROOF.

7 SUPPLY AIR AND RETURN AIR DUCTS UP TO RTU-DX-1 ON ROOF ABOVE. MODIFY EXISTING SUPPLY AND RETURN AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW ROOF TOP UNIT.

8 PROVIDE A WALL MOUNTED CONTINUOUS FLOW BAR DIFFUSER TYPE F WITH 2 SLOT OPENINGS AT 3" WIDE EACH. REFER TO SHEET MEP2.01 FOR RTU-DX-6 SUPPLY AND RETURN DUCTS ON ROOF THAT ARE TO CONNECT TO THIS DIFFUSER. SUPPLY AIRFLOW TO BE SET AT 1200 CFM. ENSURE THAT SUPPLY AND RETURN DUCTS ARE TIGHTLY SEALED TO DIFFUSER. BLANK OFF INACTIVE SECTIONS OF DIFFUSER AND SEAL TIGHTLY.

9 RELOCATE HOT WATER REHEAT VAV AS SHOWN. EXTEND HOT WATER PIPING TO NEW LOCATION. COORDINATE RELOCATION WITH OTHER TRADES INVOLVED TO EXTEND ELECTRICAL AND CONTROLS SERVICE AS REQUIRED.

10 BBH TEMPERATURE SENSOR CONNECTED TO BMS. PROVIDE INSULATION PAD BETWEEN SENSOR AND EXTERIOR WALL.

11 LEAVE END OF RETURN AIR DUCT OPEN FOR RETURN AIR PATH.

12 ROUTE ¾" NEW SUPPLY AND RETURN HOT WATER LINES TO CONNECT TO EXISTING SUPPLY AND RETURN HOT WATER LINES IN CORRIDOR AT APPROXIMATELY THIS LOCATION.

13 8" ROUND EXHAUST DUCT UP TO TEF-1 ON ROOF ABOVE.

14 8" ROUND EXHAUST DUCT UP TO TEF-2 ON ROOF ABOVE.

15 8" ROUND EXHAUST DUCT UP TO TEF-3 ON ROOF ABOVE.

16 16"X16" EXHAUST DUCT UP TO EF-1 ON ROOF ABOVE.

17 12"X12" EXHAUST DUCT UP TO GRAVITY VENTALATOR ON ROOF ABOVE.

18 12"X12" EXHAUST DUCT DOWN TO CEF-1 IN CRAWL SPACE BELOW. FIELD COORDINATE IF 16"X16" OPENING IN FLOOR IS IN CONFLICT WITH STRUCTURE BELOW AND IF SO NOTIFY CACO AND PMI.

19 THERMOSTAT AND HUMIDISTAT LOCATION FOR VRH-5-2. TEMPERATURE SENSOR IS EXISTING TO BE RELOCATED, HUMIDITY SENSOR IS NEW THAT NEEDS TO BE ADDED.

20 CONNECT A 24"X24" TO TOP OF EACH OF THESE 2 TYPE B RETURN DIFFUSERS AND ROUTE THESE 24"X24" DUCTS UP TO CONNECT TO BOTTOM OF 26"X10" DUCT.

21 RETURN AIR BOOT, REFER TO DETAIL 5 ON SHEET M5.01. TYPICAL.

22 EXISTING RETURN AIR DUCT UP TO CONNECT TO NEW RETURN AIR DUCT ON ROOF ABOVE. MODIFY EXISTING RETURN AIR DUCTWORK AS REQUIRED FOR CONNECTION TO NEW RETURN AIR DUCTWORK ON ROOF LEVEL.

23 THERMOSTAT AND HUMIDISTAT LOCATION FOR VRH-5-1. TEMPERATURE SENSOR IS EXISTING TO BE RELOCATED, HUMIDITY SENSOR IS NEW THAT NEEDS TO BE ADDED.

24 TEMPERATURE SENSOR SHOWN IS EXISTING TO BE RELOCATED. CO2 SENSOR AND HUMIDITY SENSOR ARE NEW THAT NEED TO BE ADDED.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO.	23000.001
PROJECT MGR.	SCOTT BROWN/MITCHELL HENTON
MECHANICAL	BRUCE ISONHART
PLUMBING	CHRIS WOODYARD
ELECTRICAL	KYLE ROURKE

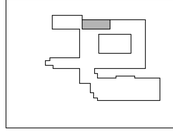
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

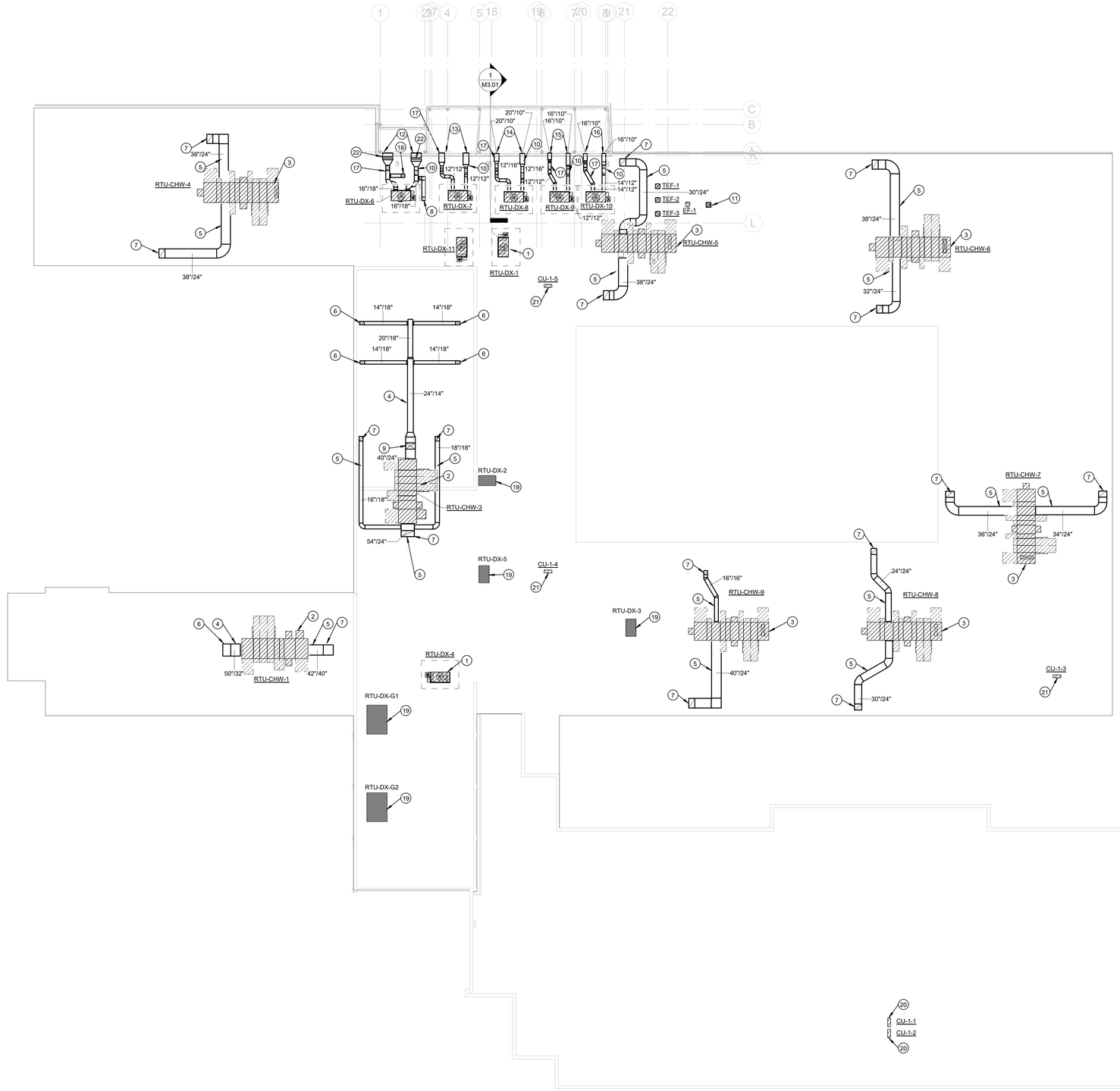
Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN



Sheet Title
MECHANICAL PLAN -ENLARGED PLAN

Sheet Number
M2.02



1 ROOF LEVEL - MEP PLAN
1/16" = 1'-0"

KEYED NOTES - SHEET M2.03

1 REPLACE EXISTING DX/ GAS HEAT RTU WITH NEW DX/ GAS HEAT RTU. REFER TO DX/ GAS HEAT RTU SCHEDULE FOR DETAILS FOR NEW RTU. REMOVE ALL ASSOCIATED CONTROLS AND PROVIDE ALL NEW CONTROLS. REMOVE EXISTING CURB AND REPLACE WITH A NEW CURB. RECONNECT UNIT TO EXISTING CONDENSATE LINE AND MODIFY CONDENSATE LINE AS REQUIRED. RECONNECT UNIT TO EXISTING GAS SERVICE AND MODIFY GAS SERVICE AS REQUIRED. RECONNECT TO EXISTING SUPPLY AND RETURN DUCTS DOWN AND MODIFY DUCTS AS REQUIRED FOR RECONNECTION.

2 REPLACE EXISTING CHILLED WATER/HOT WATER RTU WITH NEW CHILLED WATER/HOT WATER RTU. REFER TO CHW RTU SCHEDULE FOR DETAILS FOR NEW RTU. REMOVE ALL ASSOCIATED CONTROLS AND PROVIDE ALL NEW CONTROLS. REMOVE EXISTING CURB AND REPLACE WITH A NEW CURB. RECONNECT UNIT TO EXISTING CONDENSATE LINE AND MODIFY CONDENSATE LINE AS REQUIRED. RECONNECT UNIT TO EXISTING CHILLED WATER LINES AND MODIFY CHILLED WATER LINES AS REQUIRED. IF EXISTING CHILLED WATER LINES ARE PIPED FOR 3-WAY MOTORIZED WATER VALVE, PIPING WILL NEED TO BE REVISED FOR NEW 2-WAY MOTORIZED WATER VALVE. FOR EXISTING CHILLED WATER LINES AT RTU, REFER TO COIL DETAIL ON SHEET M5.02 AND PROVIDE ALL NEW DEVICES SHOWN ON COIL DIAGRAM AND REMOVE EXISTING DEVICES. EXISTING HOT WATER LINES TO UNIT ARE TO BE REMOVED REFER TO SHEET DM2.02 FOR DETAILS ON REMOVAL. NEW HOT WATER LINES ARE TO BE PROVIDED TO UNIT. REFER TO COIL DETAIL ON SHEET M5.02 AND PROVIDE ALL NEW DEVICES SHOWN ON COIL DIAGRAM.

3 REPLACE EXISTING CHILLED WATER WITH NEW CHILLED WATER/HOT WATER RTU. REFER TO CHW RTU SCHEDULE FOR DETAILS FOR NEW RTU. REMOVE ALL ASSOCIATED CONTROLS AND PROVIDE ALL NEW CONTROLS. REMOVE EXISTING CURB AND REPLACE WITH A NEW CURB. RECONNECT UNIT TO EXISTING CONDENSATE LINE AND MODIFY CONDENSATE LINE AS REQUIRED. RECONNECT UNIT TO EXISTING CHILLED WATER LINES AND MODIFY CHILLED WATER LINES AS REQUIRED. IF EXISTING CHILLED WATER LINES ARE PIPED FOR 3-WAY MOTORIZED WATER VALVE, PIPING WILL NEED TO BE REVISED FOR NEW 2-WAY MOTORIZED WATER VALVE. RECONNECT UNIT TO EXISTING SUPPLY DUCT DOWN OUT OF BOTTOM OF UNIT AND MODIFY SUPPLY DUCTWORK AS REQUIRED FOR RECONNECTION TO UNIT. FOR EXISTING CHILLED WATER LINES AT RTU, REFER TO COIL DETAIL ON SHEET M5.02 AND PROVIDE ALL NEW DEVICES SHOWN ON COIL DIAGRAM AND REMOVE EXISTING DEVICES. THERE ARE NO EXISTING HOT WATER LINES TO UNIT, NEW HOT WATER LINES ARE TO BE PROVIDED TO UNIT, REFER TO COIL DETAIL ON SHEET M5.02 AND PROVIDE ALL NEW DEVICES SHOWN ON COIL DIAGRAM.

4 ALL EXISTING ROOF MOUNTED SUPPLY AIR DUCTWORK FOR THIS RTU TO BE REMOVED AND REPLACED WITH NEW SUPPLY AIR DUCTWORK AS SHOWN. NEW DUCTWORK TO BE MEDIUM PRESSURE RATED. REPLACE EXISTING DUCT SUPPORTS WITH NEW DUCT SUPPORTS.

5 ALL EXISTING ROOF MOUNTED RETURN AIR DUCTWORK FOR THIS RTU TO BE REMOVED AND REPLACED WITH NEW RETURN AIR DUCTWORK AS SHOWN. NEW DUCTWORK TO BE MEDIUM PRESSURE RATED. REPLACE EXISTING DUCT SUPPORTS WITH NEW DUCT SUPPORTS.

6 NEW SUPPLY AIR DUCT DOWN THRU ROOF. NEW DUCT TO CONTINUE DOWN THRU EXISTING ROOF CURB TO CONNECT TO EXISTING DUCT BELOW ROOF CURB. ATTACH NEW DUCT TO CURB MATCHING METHOD IN DUCT THRU ROOF DETAIL. NEW STORM CAP AND CURB CAP MAY BE REQUIRED.

7 NEW RETURN AIR DUCT DOWN THRU ROOF. NEW DUCT TO CONTINUE DOWN THRU EXISTING ROOF CURB TO CONNECT TO EXISTING DUCT BELOW ROOF CURB. ATTACH NEW DUCT TO CURB MATCHING METHOD IN DUCT THRU ROOF DETAIL. NEW STORM CAP AND CURB CAP MAY BE REQUIRED.

8 NEW 14"X14" RETURN AIR DUCT DOWN THRU ROOF.

9 38"X24" SUPPLY DUCT TAPPED OFF THE BOTTOM OF 40"X24" DUCT AND ROUTED DOWN THRU ROOF.

10 PROVIDE NEW ROOF MOUNTED RETURN AIR DUCTWORK. PROVIDE DUCT SUPPORTS.

11 PROVIDE VENT CAP BY COOK MODEL NUMBER PR-16 WITH ROOF CURB.

12 EACH DUCT IS 42"X10" AND TO BE ROUTED THRU EXTERIOR WALL AND DUCTS TO CONTINUE TO TRANSITION TO CONNECT TO FLOW BAR DIFFUSER THAT IS MOUNTED TO SIDE OF INTERIOR WALL IN VESTIBULE 136A, REFER TO SHEET M2.01.

13 EACH DUCT IS 24"X10" AND TO BE ROUTED THRU EXTERIOR WALL AND DUCTS TO CONTINUE TO TRANSITION TO CONNECT TO FLOW BAR DIFFUSER THAT IS MOUNTED TO SIDE OF INTERIOR WALL IN RECEPTION 136B, REFER TO SHEET M2.01.

14 REFER TO SHEET M2.01. FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTS TO CONFERENCE 136M.

15 REFER TO SHEET M2.01. FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTS TO PRINCIPAL OFFICE 136N.

16 REFER TO SHEET M2.01. FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTS TO PRINCIPAL CONFERENCE 136P.

17 PROVIDE NEW ROOF MOUNTED SUPPLY AIR DUCTWORK. PROVIDE DUCT SUPPORTS.

18 NEW 14"X14" SUPPLY AIR DUCT DOWN THRU ROOF.

19 DX RTU TO REMAIN. COORDINATE WITH DIVISION 26 TO REPLACE EXISTING SMOKE DETECTORS WITH NEW SMOKE DETECTORS, REFER TO GENERAL NOTE AA ON SHEET M0.01.

20 REPLACE EXISTING CONDENSING UNIT WITH NEW CONDENSING UNIT. REMOVE EXISING RAIL CURB AND PROVIDE WITH NEW RAIL CURB. BOLT CONDENSING UNIT TO CURB. METHOD OF BOLTING CONDENSING UNIT TO CURB TO BE APPROVED BY ROOFING CONTRACTOR AND BY UNIT MANUFACTURER TO PREVENT BLOWING OVER IN HIGH WINDS. ROUTE REFRIGERANT LINES TO ASSOCIATED AC UNITS. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

21 PROVIDE NEW CONDENSING UNIT WITH NEW RAIL CURB. BOLT CONDENSING UNIT TO CURB. METHOD OF BOLTING CONDENSING UNIT TO CURB TO BE APPROVED BY ROOFING CONTRACTOR AND BY UNIT MANUFACTURER TO PREVENT BLOWING OVER IN HIGH WINDS. ROUTE REFRIGERANT LINES TO ASSOCIATED AC UNITS. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

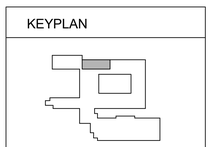
22 PROVIDE MANUAL OPPOSED BLADE DAMPER, DAMPER HOUSING TO BE OUT OF AIRSTREAM TYPE. PROVIDE INSULATED ACCESS DOOR FOR DAMPER ACCESS, DOOR TO SEAL TIGHT.

FOR NEW CONDESING UNITS, CONFIRM WITH ROOFING CONTRACTOR FOR REQUIRED CURB HEIGHT.

COORDINATE WITH GENERAL CONTRACTOR TO REPAIR AND PATCH ROOF FOR REPLACEMENT AND NEW ROOF TOP UNITS.

CITY OF DALLAS STAMP

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

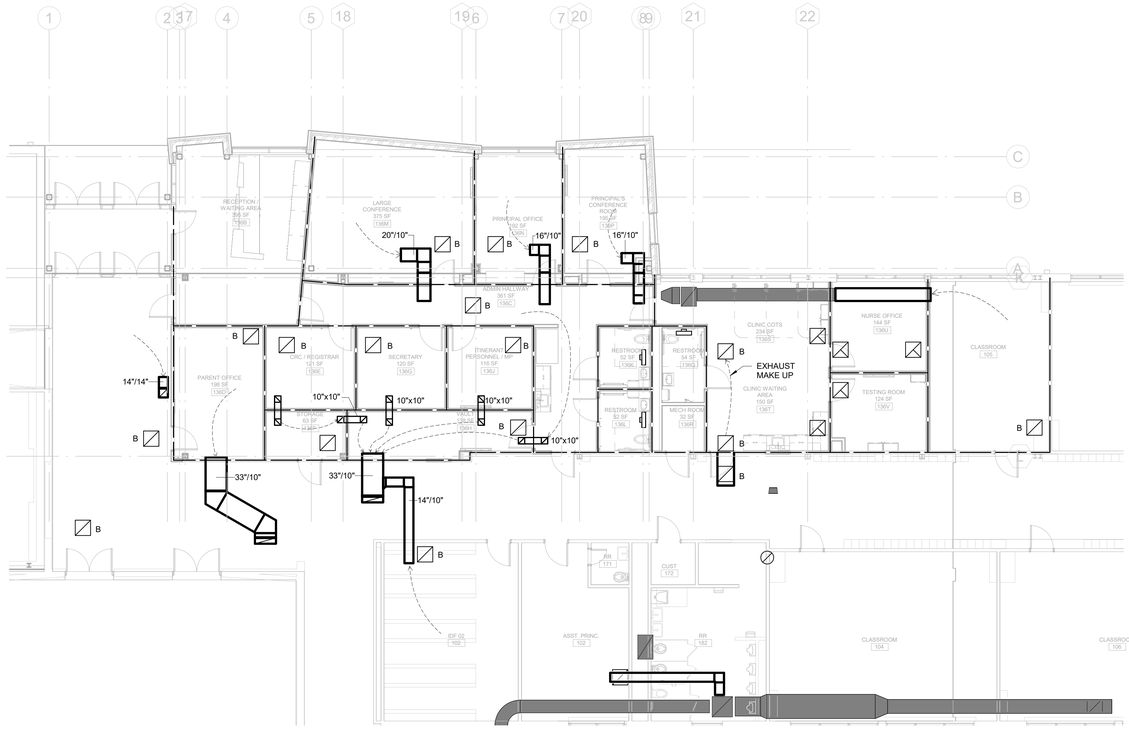
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ROOF LEVEL - MECHANICAL PLAN

Sheet Number
M2.03



1 MECHANICAL RETURN AIR PLAN - ENLARGED
1/8" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

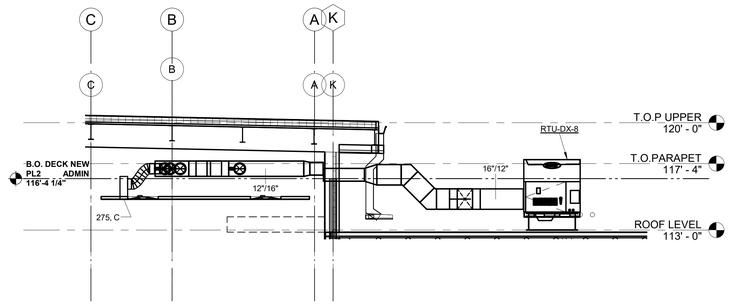
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL
RETURN AIR PLAN
-ENLARGED PLAN

Sheet Number
M2.11



1 RTU-DX-8 SECTION
1/4" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

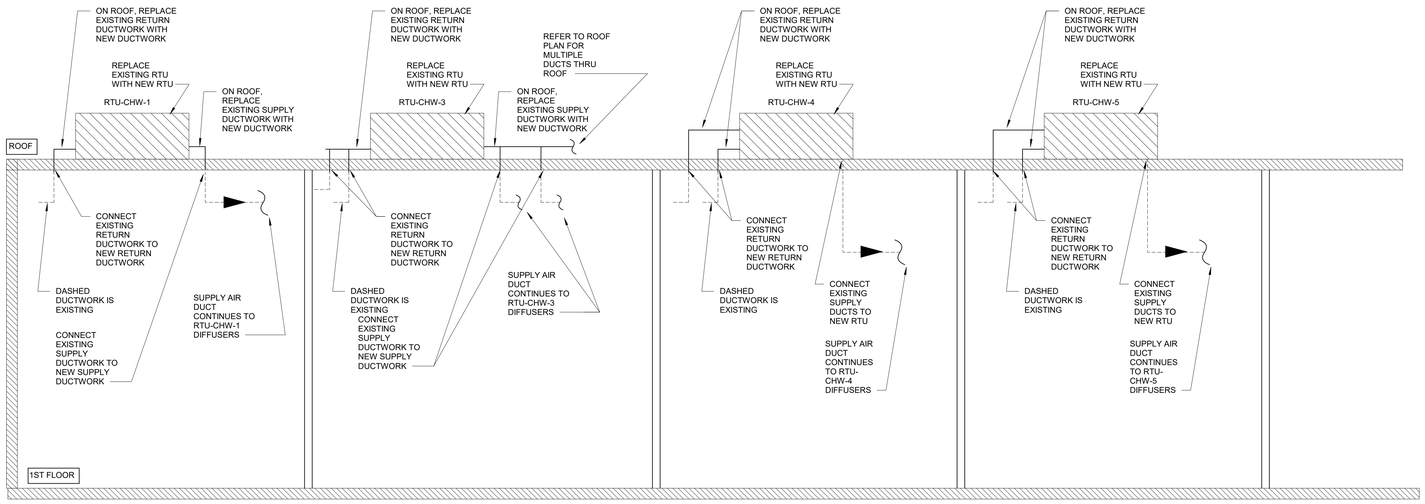
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

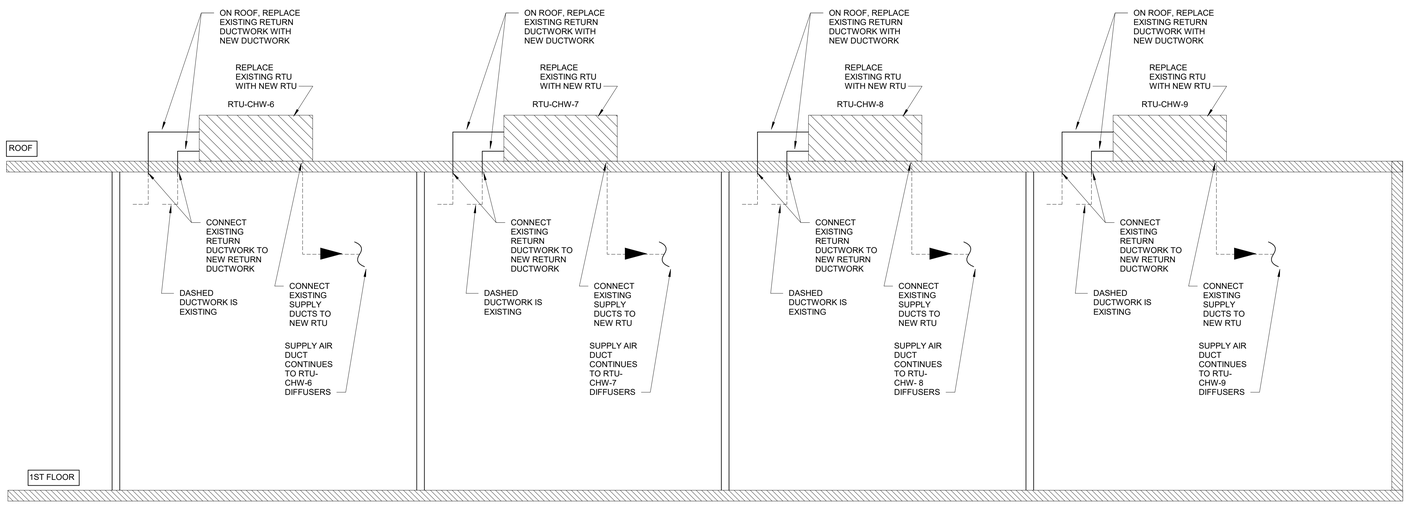
© CaCo Architecture LLC

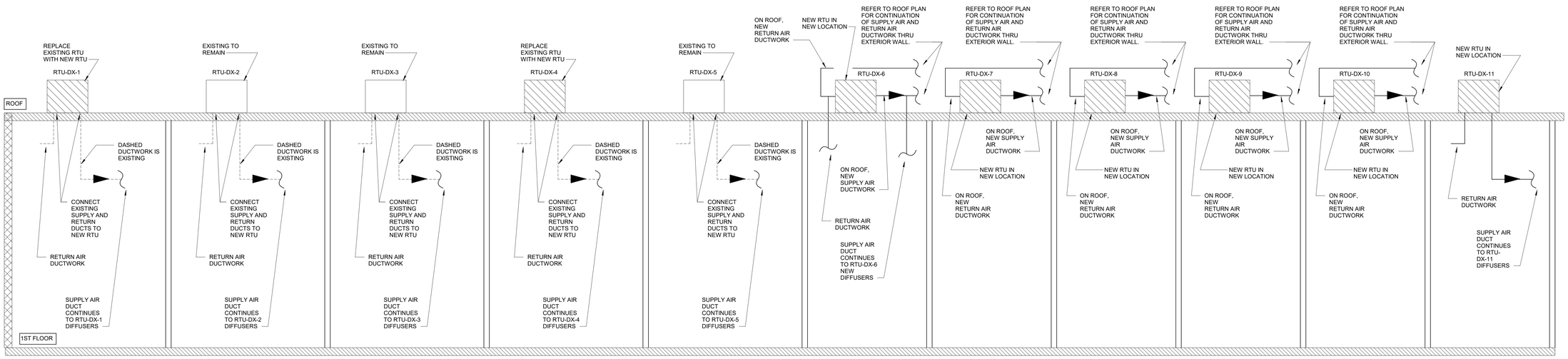
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL
SECTION VIEWS

Sheet Number
M3.01







1 BUILDING AIR RISER
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

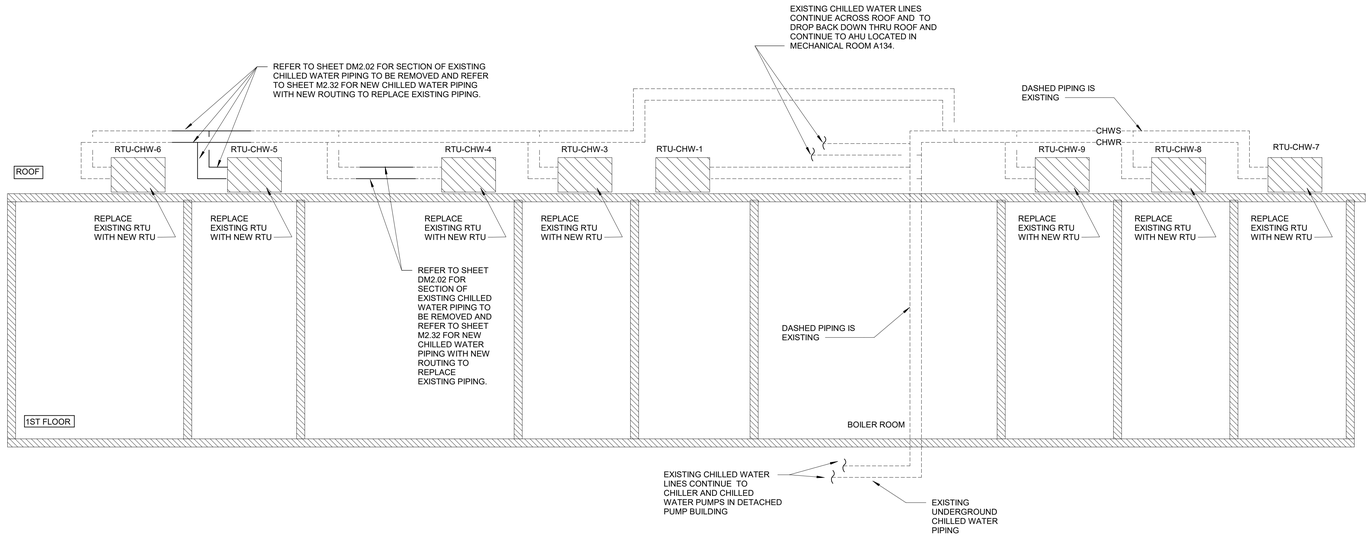
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

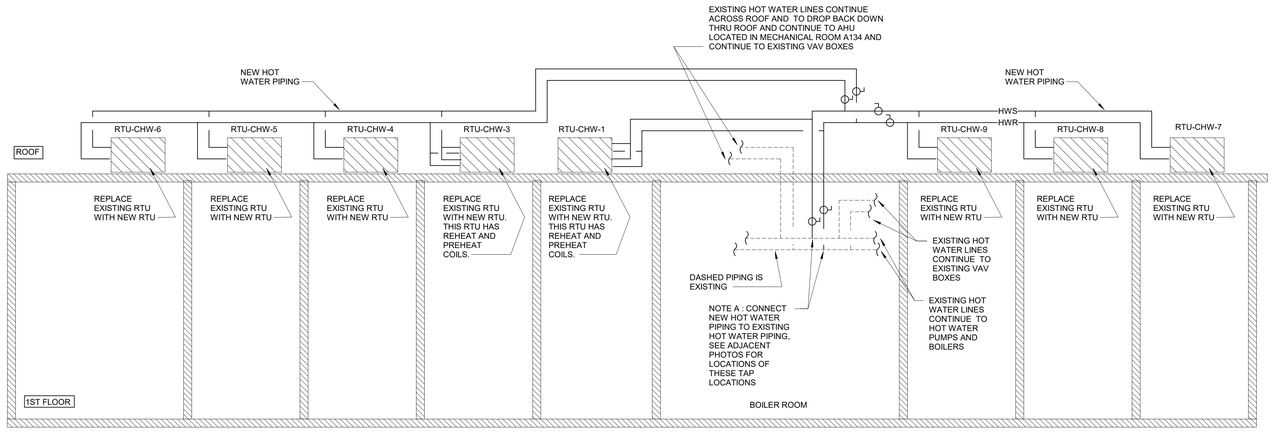
Sheet Title
MECHANICAL AIR RISER

Sheet Number
M4.01



2 CHILLED WATER PIPING RISER DIAGRAM
NOT TO SCALE

- CLEANING AND FLUSHING OF PIPING SYSTEMS MUST BE DONE BY AN INDEPENDENT, THIRD PARTY COMPANY THAT SPECIALIZES IN THIS TYPE OF WORK.
- SUBMIT DETAILED PLAN FOR ENGINEER'S AND OWNER'S REVIEW AND APPROVAL PRIOR TO ANY PIPING BEING INSTALLED. PLAN SHALL DESCRIBE IN FULL DETAIL THE INDIVIDUAL STEPS ASSOCIATED WITH THIS PROCESS BEFORE ANY PIPING IS INSTALLED. PLAN MUST INCLUDE A DRAWING INDICATING PHASING OF SYSTEMS TO BE CLEANED, LOCATIONS OF DRAINS OR OTHER TEMPORARY CONNECTIONS REQUIRED FOR CLEANING SYSTEM, RECOMMENDED TIME FOR CLEANING AGENT CIRCULATION AND CLEAN WATER FLUSHING, AND CUT SHEET OF PROPOSED TEMPORARY PUMP(S).
- CLEAN AND FLUSH THOROUGHLY TO REMOVE CONSTRUCTION DEBRIS (E.G., RUST, DIRT, PIPING COMPOUND/DOPE, MILL SCALE, OIL, GREASE) AND CONTAMINATION BEFORE PLACING PIPE IN SERVICE. PROVIDE NECESSARY TEMPORARY CONNECTIONS, BYPASS PIPING OR HOSES AND VALVES THAT ARE REQUIRED FOR CLEANING, PURGING AND CIRCULATING. PROVIDE TEMPORARY BYPASSES AROUND AHUS, FAN COIL UNITS, AND COOLING AND HOT WATER COILS. BYPASSES ARE TO BE THE SAME SIZE AS THE SUPPLY AND RETURN PIPE SIZE. ALSO, DO NOT FLUSH THROUGH CHILLERS, BOILERS, PUMPS, OR OTHER EQUIPMENT. REMOVE FLOW METERS FROM BUILDING PIPING PRIOR TO CLEANING/FLUSHING OPERATION.
- CLEANING & FLUSHING FLUID VELOCITIES ARE TO ACHIEVE A MINIMUM VELOCITY OF 10 FT/SEC TO ACHIEVE A THOROUGHLY CLEAN SYSTEM, FREE OF CONSTRUCTION DEBRIS AND CONTAMINATION BEFORE PLACING PIPING SYSTEMS IN SERVICE
- CLEANING CHEMICALS/AGENTS MUST BE ENVIRONMENTALLY FRIENDLY. SUBMIT CHEMICAL CUT SHEETS TO OWNER FOR APPROVAL PRIOR TO CLEANING.
- THIRD PARTY IS TO PROVIDE THEIR OWN TEMPORARY PUMPS AND CONNECTIONS AS REQUIRED TO ACHIEVE MINIMUM VELOCITIES FOR CLEANING, PURGING AND CIRCULATING. LIKEWISE, THIRD PARTY IS TO PROVIDE TEMPORARY STRAINERS NECESSARY TO PROTECT SENSITIVE EQUIPMENT AND COMPONENTS DURING CLEANING/FLUSHING PROCESS.
- INSTALL TEMPORARY STRAINERS IN FRONT OF PUMPS, TANKS, SOLENOID VALVES, CONTROL VALVES, AND OTHER EQUIPMENT WHERE PERMANENT STRAINERS ARE NOT INDICATED. KEEP THESE STRAINERS IN SERVICE UNTIL THE CLEANING AND FLUSHING PROCESS HAS ENDED AND THE SYSTEM HAS BEEN DEEMED CLEAN AND READY FOR USE. THEN REMOVE THE ENTIRE STRAINER OR STRAINER ELEMENT ONLY. REPLACE THE STRAINER BASKET AND GASKET. CONTRACTOR SHALL NOTIFY OWNER SO THAT THE REINSTALLATION OF CLEAN STRAINER SCREENS MAY BE WITNESSED.
- DO NOT FLUSH THRU OUR COILS (AHUS OR AIR BOXES) – NORMALLY ONLY UP TO THE ISOLATION VALVES.
- DISCHARGE THE "DIRTY" WATER TO THE SANITARY WASTE STREAM – NOT THE STORM DRAINS.
- AFTER SYSTEMS HAVE BEEN CLEANED AND FLUSHED, THIRD PARTY TO PROVIDE A WRITTEN CERTIFICATION THAT THE SYSTEMS ARE CLEAN AND READY FOR USE.
- METERING SHALL CONFIRM TO UES'S DESIGN STANDARD: UTILITY MONITORING & TAMUS DESIGN GUIDELINES.
- INITIAL FILLING OF THE BUILDING SYSTAM SHALL BE METERED TO OBTAIN A TOTAL BUILDING SYSTEM HYDRONIC VOLUME. DOCUMENT AND SUBMIT THIS TOTAL WATER VOLUME OT THE PROJECT'S COMMISSIONING AGENT.



1 HEATING WATER PIPING RISER DIAGRAM
NOT TO SCALE

- CLEANING AND FLUSHING OF PIPING SYSTEMS MUST BE DONE BY AN INDEPENDENT, THIRD PARTY COMPANY THAT SPECIALIZES IN THIS TYPE OF WORK.
- SUBMIT DETAILED PLAN FOR ENGINEER'S AND OWNER'S REVIEW AND APPROVAL PRIOR TO ANY PIPING BEING INSTALLED. PLAN SHALL DESCRIBE IN FULL DETAIL THE INDIVIDUAL STEPS ASSOCIATED WITH THIS PROCESS BEFORE ANY PIPING IS INSTALLED. PLAN MUST INCLUDE A DRAWING INDICATING PHASING OF SYSTEMS TO BE CLEANED, LOCATIONS OF DRAINS OR OTHER TEMPORARY CONNECTIONS REQUIRED FOR CLEANING SYSTEM, RECOMMENDED TIME FOR CLEANING AGENT CIRCULATION AND CLEAN WATER FLUSHING, AND CUT SHEET OF PROPOSED TEMPORARY PUMP(S).
- CLEAN AND FLUSH THOROUGHLY TO REMOVE CONSTRUCTION DEBRIS (E.G., RUST, DIRT, PIPING COMPOUND/DOPE, MILL SCALE, OIL, GREASE) AND CONTAMINATION BEFORE PLACING PIPE IN SERVICE. PROVIDE NECESSARY TEMPORARY CONNECTIONS, BYPASS PIPING OR HOSES AND VALVES THAT ARE REQUIRED FOR CLEANING, PURGING AND CIRCULATING. PROVIDE TEMPORARY BYPASSES AROUND AHUS, FAN COIL UNITS, AND COOLING AND HOT WATER COILS. BYPASSES ARE TO BE THE SAME SIZE AS THE SUPPLY AND RETURN PIPE SIZE. ALSO, DO NOT FLUSH THROUGH CHILLERS, BOILERS, PUMPS, OR OTHER EQUIPMENT. REMOVE FLOW METERS FROM BUILDING PIPING PRIOR TO CLEANING/FLUSHING OPERATION.
- CLEANING & FLUSHING FLUID VELOCITIES ARE TO ACHIEVE A MINIMUM VELOCITY OF 10 FT/SEC TO ACHIEVE A THOROUGHLY CLEAN SYSTEM, FREE OF CONSTRUCTION DEBRIS AND CONTAMINATION BEFORE PLACING PIPING SYSTEMS IN SERVICE
- CLEANING CHEMICALS/AGENTS MUST BE ENVIRONMENTALLY FRIENDLY. SUBMIT CHEMICAL CUT SHEETS TO OWNER FOR APPROVAL PRIOR TO CLEANING.
- THIRD PARTY IS TO PROVIDE THEIR OWN TEMPORARY PUMPS AND CONNECTIONS AS REQUIRED TO ACHIEVE MINIMUM VELOCITIES FOR CLEANING, PURGING AND CIRCULATING. LIKEWISE, THIRD PARTY IS TO PROVIDE TEMPORARY STRAINERS NECESSARY TO PROTECT SENSITIVE EQUIPMENT AND COMPONENTS DURING CLEANING/FLUSHING PROCESS.
- INSTALL TEMPORARY STRAINERS IN FRONT OF PUMPS, TANKS, SOLENOID VALVES, CONTROL VALVES, AND OTHER EQUIPMENT WHERE PERMANENT STRAINERS ARE NOT INDICATED. KEEP THESE STRAINERS IN SERVICE UNTIL THE CLEANING AND FLUSHING PROCESS HAS ENDED AND THE SYSTEM HAS BEEN DEEMED CLEAN AND READY FOR USE. THEN REMOVE THE ENTIRE STRAINER OR STRAINER ELEMENT ONLY. REPLACE THE STRAINER BASKET AND GASKET. CONTRACTOR SHALL NOTIFY OWNER SO THAT THE REINSTALLATION OF CLEAN STRAINER SCREENS MAY BE WITNESSED.
- DO NOT FLUSH THRU OUR COILS (AHUS OR AIR BOXES) – NORMALLY ONLY UP TO THE ISOLATION VALVES.
- DISCHARGE THE "DIRTY" WATER TO THE SANITARY WASTE STREAM – NOT THE STORM DRAINS.
- AFTER SYSTEMS HAVE BEEN CLEANED AND FLUSHED, THIRD PARTY TO PROVIDE A WRITTEN CERTIFICATION THAT THE SYSTEMS ARE CLEAN AND READY FOR USE.
- METERING SHALL CONFIRM TO UES'S DESIGN STANDARD: UTILITY MONITORING & TAMUS DESIGN GUIDELINES.
- INITIAL FILLING OF THE BUILDING SYSTAM SHALL BE METERED TO OBTAIN A TOTAL BUILDING SYSTEM HYDRONIC VOLUME. DOCUMENT AND SUBMIT THIS TOTAL WATER VOLUME OT THE PROJECT'S COMMISSIONING AGENT.

CONNECT NEW HOT WATER SUPPLY LINE TO EXISTING HOT WATER LINES AT THIS LOCATION IN BOILER ROOM. SEE NOTE A ON ADJACENT HOT WATER RISER DIAGRAM ON THIS SHEET AND KEYED NOTE #4 ON SHEET MEP2.01.



CONNECT NEW HOT WATER RETURN LINE TO EXISTING HOT WATER LINES AT THIS LOCATION IN BOILER ROOM. SEE NOTE A ON ADJACENT HOT WATER RISER DIAGRAM ON THIS SHEET AND KEYED NOTE #4 ON SHEET MEP2.01.



CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

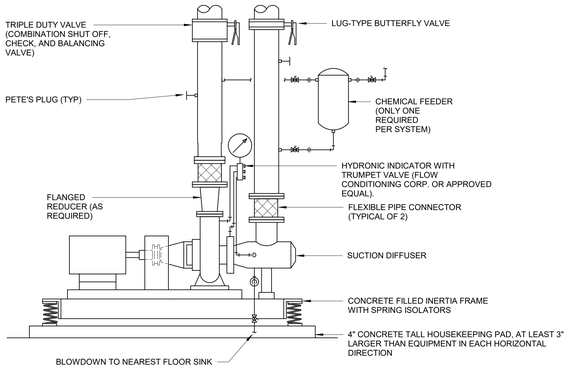
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

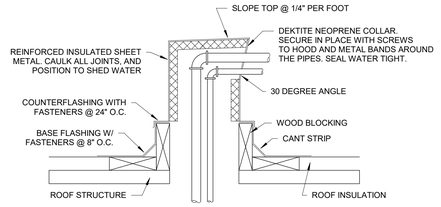
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL
PIPING RISERS

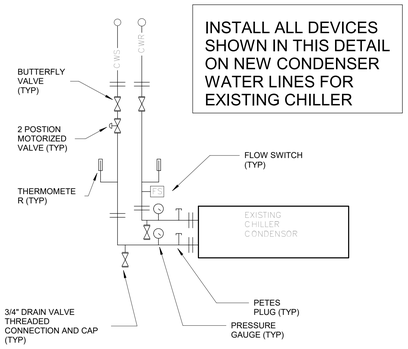
Sheet Number
M4.02



1 BASE MOUNTED PUMP DETAIL
NOT TO SCALE

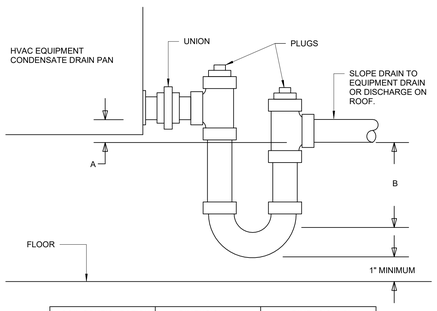


2 PIPE ROOF PENETRATION HOOD DETAIL
NOT TO SCALE



INSTALL ALL DEVICES SHOWN IN THIS DETAIL ON NEW CONDENSER WATER LINES FOR EXISTING CHILLER

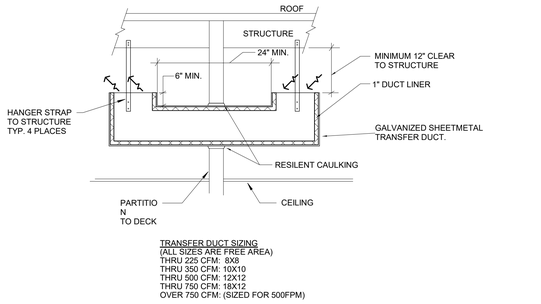
3 WATER COOLED CHILLER PIPING DETAIL
NOT TO SCALE



COIL CONFIGURATION	DIMENSION "A"	DIMENSION "B"
BLOW THROUGH COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THROUGH COIL	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

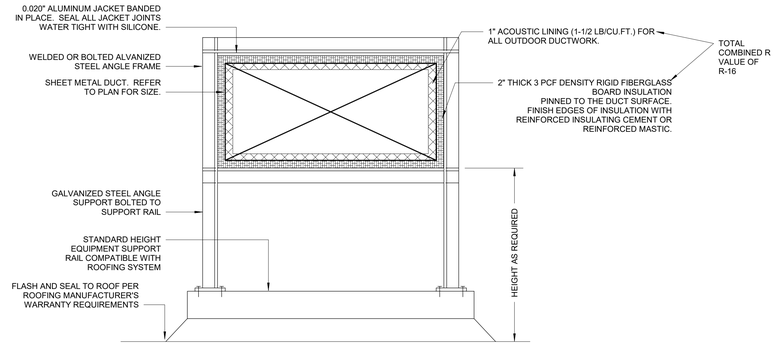
NOTE: MINIMUM "A" OR "B" DIMENSION SHALL NOT BE LESS THAN 1".

4 HVAC CONDENSATE TRAP DETAIL
NOT TO SCALE



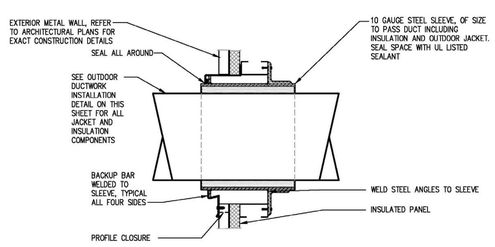
TRANSFER DUCT SIZING
(ALL SIZES ARE FREE AREA)
THRU 225 CFM: 8X8
THRU 350 CFM: 10X10
THRU 500 CFM: 12X12
THRU 750 CFM: 18X12
OVER 750 CFM: (SIZED FOR 500FPM)

5 RETURN AIR TRANSFER BOOT
NOT TO SCALE

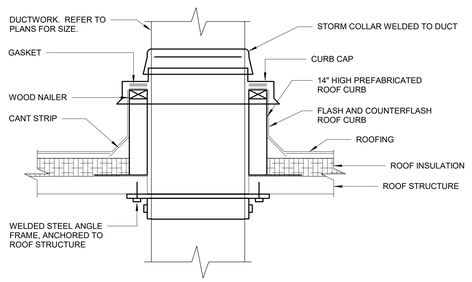


FOR ALL SUPPLY AND RETURN AIR DUCTWORK LOCATED OUTSIDE.

6 OUTDOOR DUCTWORK INSTALLATION
NOT TO SCALE



7 STANDARD DUCT WALL PENETRATION DETAIL
NOT TO SCALE



8 DUCT THROUGH ROOF
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

D. SCOTT BROWN
89097
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

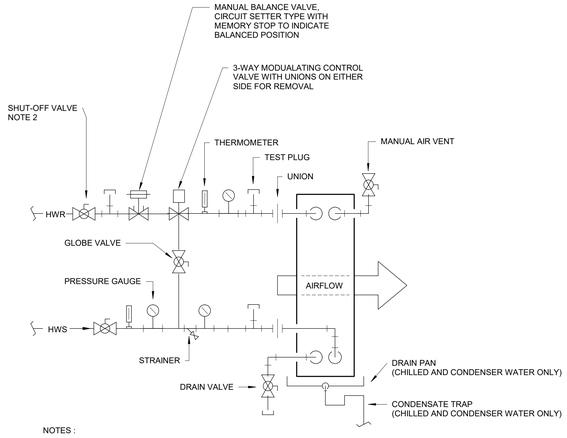
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL DETAILS

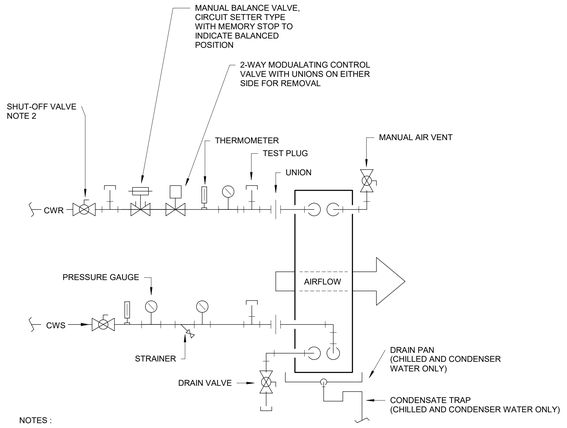
Sheet Number
M5.01



NOTES :

1 INSTALL PIPING COUNTER TO AIR FLOW.
2 MANUAL SHUT OFF VALVE
BALL VALVE - UP TO 2-1/2
BUTTERFLY VALVE - 3" AND UP

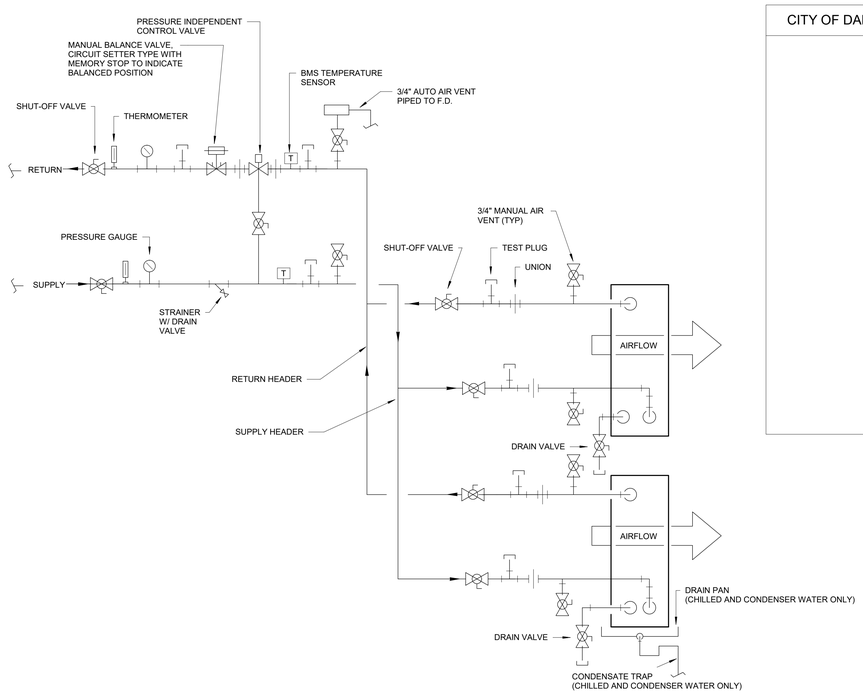
1 AHU 3-WAY COIL PIPING DETAIL
NOT TO SCALE



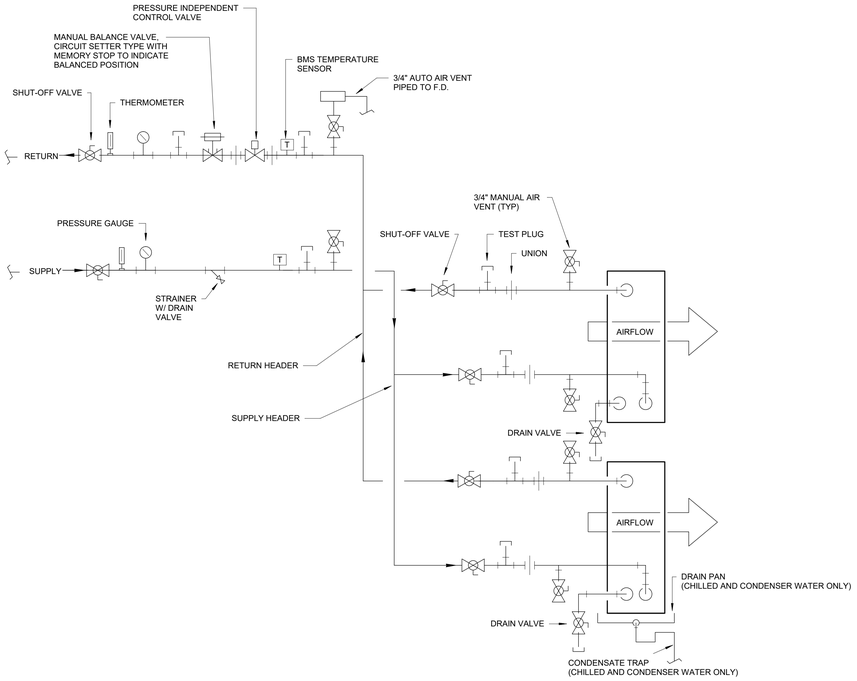
NOTES :

1 INSTALL PIPING COUNTER TO AIR FLOW.
2 MANUAL SHUT OFF VALVE
BALL VALVE - UP TO 2-1/2
BUTTERFLY VALVE - 3" AND UP

2 AHU 2-WAY COIL PIPING DETAIL
NOT TO SCALE



3 AHU 3-WAY COIL PIPING DETAIL
NOT TO SCALE



4 AHU 2-WAY COIL PIPING DETAIL.
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

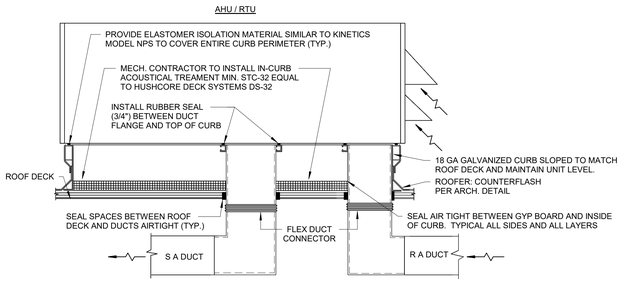
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

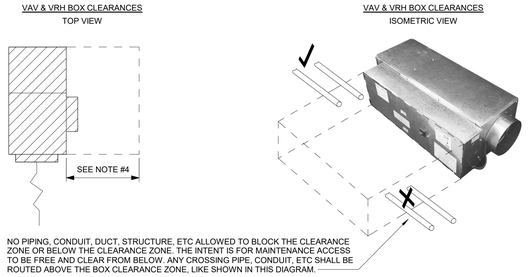
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL DETAILS

Sheet Number
M5.02



1 ROOF TOP UNIT SOUND ISOLATION DETAIL
NOT TO SCALE



NOTES:

1. PROVIDE 2X2 ACCESS PANELS FOR ALL VAV BOXES IN INACCESSIBLE LOCATIONS. ACCESS PANELS SHALL BE LOCATED UNDERNEATH THE CLEARANCE SPACE OF EACH BOX AND NOT DIRECTLY BELOW THE BOX. VERIFY EXACT LOCATION OF ACCESS PANEL WITH ARCHITECT.
2. THE DASHED AREAS REPRESENT A HORIZONTAL AND VERTICAL CLEARANCE FOR THE FULL DIMENSIONS OF THE UNIT. NO OBSTRUCTIONS CAN PASS THROUGH THE DASHED AREA. AREA SHALL REMAIN CLEAR FOR MAINTENANCE PURPOSES.
3. ANY UNIT MOUNTED DISCONNECTS MUST MEET THE CLEARANCES SHOWN IN NOTE #4.
4. NEC WORKING SPACE CLEARANCES MUST COMPLY WITH NEC TABLE 110.26(A)(1). SUMMARY OF THIS TABLE SHOWN BELOW.

NOMINAL VOLTAGE	CONDITION 1	CONDITION 2	CONDITION 3
0-150V	3 FT	3 FT	3 FT
151-600V	3 FT	3 FT-6 IN	4 FT

CONDITION 1 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATED MATERIALS.

CONDITION 2 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

CONDITION 3 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

2 VAV BOX REQUIRED NEC CLEARANCES
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

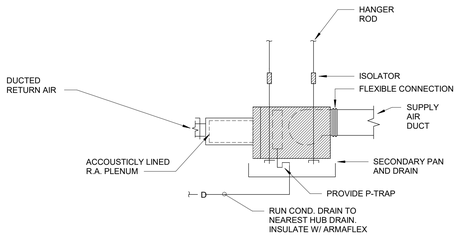


©2023 Purdy - McGuire

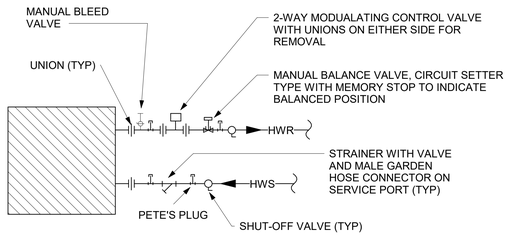
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

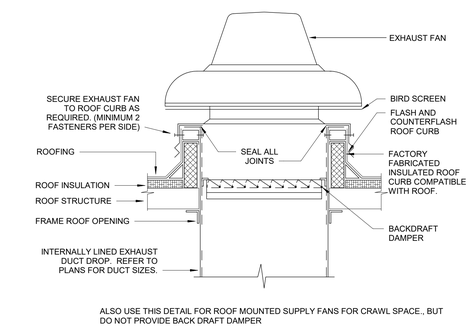
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX



3 DUCTED AC UNIT WITH NO OUTSIDE AIR
NOT TO SCALE

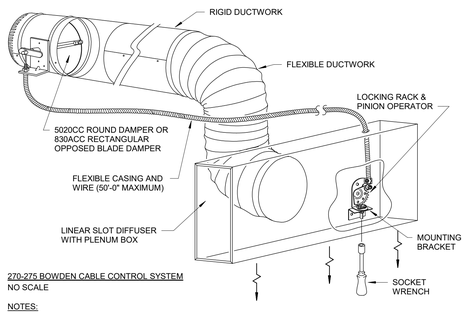


4 VAV BOX REHEAT COIL DETAIL
NOT TO SCALE



ALSO USE THIS DETAIL FOR ROOF MOUNTED SUPPLY FANS FOR CRAWL SPACE., BUT DO NOT PROVIDE BACK DRAFT DAMPER

5 TOILET EXHAUST FAN
NOT TO SCALE

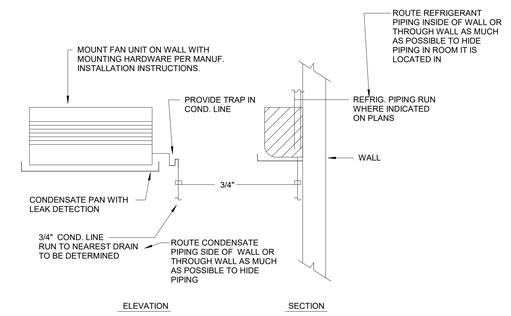


270-275 BOWDEN CABLE CONTROL SYSTEM
NO SCALE

NOTES:

1. THE 270-275 BOWDEN CABLE CONTROL SYSTEM IS DESIGNED FOR USE WITH EXTERNALLY CONTROLLED ROUND OR RECTANGULAR DAMPERS AND CAN BE MOUNTED IN A WIDE VARIETY OF LOCATIONSINCLUDING CEILING JOISTS, LAY-IN CEILINGS, BEHIND GRILLES, ON OR INSIDE OTHER VARIOUS TYES OF DIFFUSERS, ETC.
2. CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
3. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
4. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

6 CONCEALED DAMPER OPERATOR IN-DIFFUSER DETAIL
NOT TO SCALE



7 DUCTLESS MINI-SPLIT INSTALLATION DETAIL
NOT TO SCALE

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL DETAILS

Sheet Number
M5.03

RTU DX AND GAS REHEAT SCHEDULE

DESIGNATION				MECHANICAL															ELECTRICAL				
				FAN SECTION						COOLING CAPACITY MBH @ 105 °F AMBIENT				GAS HEATING CAPACITY			BASIS OF DESIGN						
TYPE	MARK	AREA SERVED	NOMINAL TONS	DESIGN CFM	ASHREA OA CFM	MIN OA CFM	ESP (in WG)	BHP	HP	TOTAL MBH	SENSIBLE MBH	EAT DB	EAT WB	SEER	INPUT MBH	OUTPUT MBH	EFF %	MANUFACTURER	MODEL	ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	VOLT	PH	MCA	MOCP
RTU-DX	1	ADMINISTRATION OFFICES	5	1635	170	100	1	0.3	1	39	36	75	64	17.45	60	49	81.67%	AAON	RQ-005-3-V-GB02	A THRU L	1253	460 V	3	18	25
RTU-DX	4	DR. RM 142 AND FAC. LNG. 144	2	725	120	120	1	0.4	1	24.5	20	79	65	19.1	60	49	81.67%	AAON	RQ-002-3-V-GA02	A THRU K	1123	460 V	3	12	15
RTU-DX	6	VESTIBULE	5	1900	185	185	1	1.6	2	51	40	75	64	17.45	60	49	81.67%	AAON	RQ-005-3-V-GB02	A THRU L	1253	460 V	3	18	25
RTU-DX	7	RECEPTION 136B	2	730	100	100	1	0.4	1	19.5	17	76	63	19.15	60	49	81.67%	AAON	RQ-002-3-V-GA02	A THRU L	1123	460 V	3	12	15
RTU-DX	8	CONFERENCE 136M	3	1100	145	100	1	0.6	1	32	25	76	64	18.2	60	49	81.67%	AAON	RQ-003-3-V-GA02	A THRU L	1120	460 V	3	16	20
RTU-DX	9	PRINCIPAL 136N	2	530	50	50	1	0.3	1	10	8.5	76	64	19.15	60	49	81.67%	AAON	RQ-002-3-V-GA02	A THRU L	1123	460 V	3	12	15
RTU-DX	10	CONFERENCE 136P	2	850	100	100	1	0.4	1	23	19	76	64	19.15	60	49	81.67%	AAON	RQ-002-3-V-GA02	A THRU L	1123	460 V	3	12	15
RTU-DX	11	PARENT 136D	2	530	60	60	1	0.3	1	12	9	76	64	19.15	60	49	81.67%	AAON	RQ-002-3-V-GA02	A THRU L	1123	460 V	3	12	15

ACCESSORIES:
(A) - FACTORY MOUNTED, NON-FUSED DISCONNECT SWITCH
(B) - DIVISION 26 TO PROVIDE SUPPLY AND RETURN SMOKE DETECTORS, REFER TO GENERAL NOTE ON SHEET M001.
(C) INSULATED ROOF CURB, CURB HEIGHT SO TOP OF CURB IS 14" ABOVE ROOF. EACH NEW RTU IS TO HAVE A NEW CURB PROVIDED, NEW RTU'S AT NEW LOCATIONS WHICH ARE RTU'S 6 THRU 11 'S ARE TO HAVE NEW CURBS AND REPLACEMENT RTU'S 1 AND 4 ARE TO ALSO HAVE NEW CURBS, FOR REPLACEMENT RTU'S, EXISTING CURBS ARE TO BE REMOVED AND NEW CURBS TO BE PROVIDED.
(D) THRU BASE ELECTRICAL CONNECTIONS
(E) MERV 13 FINAL FILTER AND MERV 8 PRE FILTER
(F) - SLOPED CONDENSATE DRAIN PAN WITH THRU BASE CONDENSATE DRAIN
(G) - LOW AMBIENT COOLING CAPABILITY DOWN TO 0 DEG. F
(H) - DRY BULB ECONOMIZER WITH 100% POWERED RELIEF FAN (.25" ESP FOR RELIEF FAN)
(J) -ALL RTU'S ARE TO BE VAV SINGLE ZONE WITH HOT GAS REHEAT AND TO HAVE HUMIDITY CONTROL. PROVIDE WITH OUTSIDE AIR FLOW DEMAND CONTROL.
(K) - ELECTRIC IGNITION FOR GAS-FIRED HEATER
(L)FOR RTU-DX – 1, RTU-DX-6, RTU-DX-7, RTU-DX-8, RTU-DX-9, RTU-DX-10, AND RTU-DX-11, CONTROLS CONTRACTOR TO PROVIDE EBTRON GOLD FLOW STATION FOR OUTSIDE AIR MEASURE, COORDINATE WITH CONTROLS CONTRACTOR AND PROVIDE ANY MODIFICATIONS REQUIRED TO RTU FOR FLOW STATIONS TO ACHIEVE CHPS REQUIRED 10% ACCURACY FOR OA FLOW MEASUREMENT.

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2) THE SHORT CIRCUIT CURRENT RATING (SCCR) OF ALL ROOFTOP UNITS SHALL MATCH THE AIC RATING OF THE UPSTREAM PANEL FEEDING THE UNIT.
3) INSTALL UNITS LEVEL FOR PROPER CONDENSATE DRAINAGE, SHIM CURBS AS REQUIRED.
4) COORDINATE EXACT LOCATION OF UNIT WITH STRUCTURE.
5) PROVIDE VFD FOR SUPPLY FANS AND PROVIDE VFD FOR RELIEF FANS.
6) LEAVING AIR TEMP. DOWNSTREAM OF FAN SHALL BE 55 DEG. F. MAX.
7) APPROVED MANUFACTURERS ARE: TRANE AND AAON. NO OTHER MANUFACTURERS WILL BE ACCEPTED.
8) PROVIDE ALL ROOFTOP UNITS WITH FACTORY MOUNTED DISCONNECT FOR SINGLE POINT POWER CONNECTION.
9) PROVIDE ELECTRIC IGNITION FOR ALL GAS-FIRED ROOFTOP UNITS.
10) PROVIDE TERMINAL STRIP FOR 3RD PARTY CONTROL.
11) PROVIDE HAIL GUARDS.
12) PROVIDE WITH LIGHTS AND SERVICE OUTLET. OUTLET TO BE POWERED FROM DEDICATED 120 V CIRCUIT AND NOT FROM UNIT POWER.
13) PROVIDE A RIB RELAY WITH MANUAL HOA SWITCH. SWITCH TO HAVE CAPIBILITY TO BE CONNECTED TO BMS FOR BMS TO MONITOR IF SWITCH IS IN MANUAL OVERRIDE.
14) RTU'S DX-1, 4, AND 11 ARE TO HAVE SUPPLY AND RETURN AIR DUCTS TAPPED OFF THE BOTTOM OF UNIT.
15) RTU'S DX-6, 7, 8, 9, AND 10 ARE TO HAVE SUPPLY AND RETURN AIR DUCTS TAPPED OFF THE SIDE OF UNIT.
15) PER DISD TDG, ALL UNITS 3 TONS TO 6 TONS ARE TO HAVE TWO (2) STAGE COMPRESSOR AND A MINIMUM TWO (2) SPEED FAN.
16) PER DISD TDG, ALL UNITS 7.5 TONS AND ABOVE ARE TO HAVE A MINIMUM OF TWO (2) COMPRESSORS WITH DUAL REFRIGERATION CIRCUITS.
17) MID LIFE DIRTY FILTER PRESSURE DROP ALLOWANCE IS TO BE ACCOUNTED FOR BY THE UNIT MANUFACTURER IN THE UNITS INTERNAL STATIC PRESSURE CALCULATION.

RTU-DX – 1, RTU-DX-6, RTU-DX-7, RTU-DX-8, RTU-DX-9, RTU-DX-10, AND RTU-DX-11 CAPACITIES ARE BASED ON THE CRAWL SPACE BELOW ADMINISTRATION AREAS AND BELOW SHELTER HAVING R-19 INSULATION. IF LESS THAN R-19 INSUALTION IS PROVIDED HIGHER TONNAGE RTU'S MAY BE REQUIRED.

SINCE UNITS WILL BE INSTALLED AFTER JANUARY 1ST 2025 (CONFIRM IF THIS EPA AIM ENFORCEMENT DATE CHANGES), CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A UNIT MATCHING PERFORMANCE AND UTILIZING NEW REFRIGERANT WITH A GWP BELOW 700 PER EPA AIM ACT. IF THE FOOTPRINT, WEIGHT, HEIGHT, DUCT CONNECTIONS, OR MANUFACTURER REQUIRED CLEARANCE CHANGES ON UPDATED SELECTIONS, ENGINEER MUST BE NOTIFIED.

FOR EACH RTU, CURRENT RTU/DUCT CONFIGURATION IS PER BASIS OF DESIGN AAON RTU. IF ALTERNATE MANUFACTURERS ARE SUBMITTED, CONTRACTOR SHALL CAREFULLY COMPARE FOOTPRINT, WEIGHT, HEIGHT, DUCT CONNECTIONS, AND MANUFACTURER REQUIRED CLEARANCE CHANGES, ETC. TO ENSURE LAYOUT COORDINATES WITH ADJACENT EQUIPMENT, CLEARANCES, ETC. PRIOR TO FORMALLY SUBMITTING. IF WEIGHT CHANGES COORDINATE WITH STRUCTURAL ENGINEER TO CONFIRM IF STRUCTURAL DESIGN NEEDS TO BE REVISED.

CITY OF DALLAS STAMP

RTU CHILLED WATER SCHEDULE

DEIGNATION			SUPPLY FAN						COOLING COIL										(PRE) HEAT COIL					RE-HEAT COIL						PRE-FILTER		FINAL FILTER		BASIS OF DESIGN			ELECTRICAL		
											EAT °F		LAT °F																									
TYPE	MARK	AREA SERVED	CFM	ESP (IN W.G.)	FAN ARRAY	TOTAL BHP	TOTAL HP	ASH REA OA CFM	MIN OA CFM	TOTAL MBH	SENSIBLE MBH	DB	WB	DB	WB	MAX AIR VELOCITY	AIR PD (IN W.G.)	GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	TOTAL MBH	GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	TOTAL MBH	EAT °F DB	LAT °F DB	GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	DEPTH	MERV	DEPTH	MERV	MANUFACTURER	MODEL	WEIGHT (LBS)	VOLT	PH	REFER TO SCHEDULE NOTES FOR ELECTRICAL INFORMATION
RTU-CHW	1	CAFE	11200	1	2	10.5	15	4000	4000	508.42	401.71	84.6	67	52	51.9	448	0.68	63.3	42	58	4.85	546.59	54.7	160	140	1.76	268	55	77	26.8	160	140	1.46	2	8	4	13	TRANE	CSAA025	5955	460	3	NOTE 28
RTU-CHW	3	AUDITORIUM	8400	1	2	7.6	10	3200	300	403.28	305.13	85	67.5	52	51.6	500	0.8	50.2	42	58	10.85	409.94	41	160	140	1.72	182	55	75	18.2	160	140	0.91	2	8	4	13	TRANE	CSAA017	4788	460	3	NOTE 29
RTU-CHW	4	NORTHWEST CLASSROOMS	9000	2.5	2	12	15	2500	1000	393.14	302.07	82.5	66.5	52	51.9	432	0.66	49	42	58	4.47	150	15	160	140	2.1	0	0	0	0	0	0	0	2	8	4	13	TRANE	CSAA021	6623	460	3	NOTE 30
RTU-CHW	5	ADMINISTRATION AND NORTH CLASSROOMS	8000	2.5	2	11.5	15	2300	1900	356.02	268.51	82.5	66.5	52	5158	476	0.71	44.4	42	58	8.78	140	15	160	140	1.57	0	0	0	0	0	0	0	2	8	4	13	TRANE	CSAA017	5780	460	3	NOTE 30
RTU-CHW	6	NORTH CLASSROOMS	9000	2.5	2	11.5	15	2400	1000	393.14	302.07	82.5	66.5	52	51.9	432	0.66	49	42	58	4.47	145	14	160	140	2.1	0	0	0	0	0	0	0	2	8	4	13	TRANE	CSAA021	6623	460	3	NOTE 30
RTU-CHW	7	EAST CLASSROOMS	8000	2.5	2	10.2	15	2300	900	356.46	272.85	83	66.5	52	51.6	476	0.7	44.4	42	58	8.79	140	15	160	140	1.57	0	0	0	0	0	0	0	2	8	4	13	TRANE	CSAA017	5779	460	3	NOTE 30
RTU-CHW	8	SOUTH CLASSROOMS	7000	2.5	2	9.1	10	1900	900	301.29	234.79	82.5	66	52	51.5	417	0.52	37.5	42	58	6.63	115	12	160	140	1.22	0	0	0	0	0	0	0	2	8	4	13	TRANE	CSAA017	5727	460	3	NOTE 31
RTU-CHW	9	SOUTH CLASSROOMS	7000	2.5	2	9.1	10	1700	900	301.29	234.79	82.5	66	52	51.5	417	0.52	37.5	42	58	6.63	115	12	160	140	1.22	0	0	0	0	0	0	0	2	8	4	13	TRANE	CSAA017	5727	460	3	NOTE 31

NOTES :
1. PROVIDE VFD FOR SUPPLY FANS. PROVIDE AN OVERLOAD PANEL THAT HAS INDIDVIDUAL OVERLOADS AND CONTACTORS FOR EACH FAN TO PROTECT THEM FROM TOTAL AMP CAPACITY OF VFD DRIVE. VFD'S TO HAVE INTEGRAL DISCONNECT. PROVIDE BACNET INTERFACE CARD FOR INTEGRATION TO THE BMS.
2. PROVIDE ALL AHUS WITH FACTORY MOUNTED DISCONNECT MATCHING THE AIC RATING OF THE UPSTREAM PANEL FEEDING THE UNIT AND SINGLE POINT POWER CONNECTION.
3. INSULATED SLOPING STAINLESS STEEL DRAIN PAN.
4. DIVISION 26 TO PROVIDE SUPPLY AND RETURN SMOKE DETECTORS, REFER TO GENERAL NOTE ON SHEET M001.
5. UNIT SHALL BE FAN WALL TYPE.
6. 2-WAY CHILLED WATER MODULATING VALVE (24V) PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
7. 2-WAY HOT WATER MODULATING VALVES (24V) FOR PREHEAT AND REHEAT, SEE NOTES BELOW FOR WHICH UNITS HAVE PREHEAT AND REHEAT COILS AND WHICH UNITS HAVE PREHEAT ONLY. PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
8. UNIT TO BE DOUBLE WALL CONSTRUCTION
9. APPROVED MANUFACTURER'S : TRANE, CARRIER, TEMTROL, AND YORK. **NO OTHER MANUFACTURERS WILL BE ACCEPTED.**
10. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
11. PROVIDE RETURN AIR CO2 SENSORS FOR OUTSIDE AIR DEMAND CONTROL. SPACE SENSORS TO BE PART OF FUTURE TENANT SCOPE.
12. COORDINATE WITH PLAN NOTES AND PIPING PLANS FOR COIL CONNECTION SIDE, COIL CONNECTION/DOGHOUSE SIDE SIDE OF AHU.
13. PROVIDE WITH MIXED AIR SECTION WITH DAMPERS. (24V) DAMPER MOTORS TO BE PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
14. PROVIDE HUMIDITY CONTROL.
15. PROVIDE RTU'S WITH DOWN STREAM DUCT STATIC SENSOR.
16. LEAVING AIR TEMP. DOWNSTREAM OF FAN SHALL BE 50 DEG. F. MAX.
17. PROVIDE MULTIPLE SUPPLY FANS WITH BACK DRAFT DAMPERS
18. PROVIDE A RIB RELAY WITH MANUAL HOA SWITCH. SWITCH TO HAVE CAPIBILITY TO BE CONNECTED TO BMS FOR BMS TO MONITOR IF SWITCH IS IN MANUAL OVERRIDE.
19. INSULATED ROOF CURB, CURB HEIGHT SO TOP OF CURB IS 14" ABOVE ROOF. EXISTING CURBS ARE TO BE REMOVED AND NEW CURBS TO BE PROVIDED. EACH RTU ON THIS SCHEDULE IS A NEW RTU REPLACING AN EXISTING RTU.
20. THRU BASE ELECTRICAL CONNECTIONS
21. ENTHALPY ECONOMIZER.
22. RTU'S CHW-1 AND 3 TO BE VAV SINGLE ZONE. RTU'S CHW-4 , 5, 6, 7, 8, AND 9 TO BE VAV MULTIZONE (VAV'S BOXES DOWNSTREAM).
23. RTU'S CHW-1 AND 3 TO HAVE PREHEAT AND REHEAT COILS. RTU'S 4 , 5, 6, 7, 8, AND 9 TO HAVE PREHEAT COILS BUT WILL NOT HAVE REHEAT COILS.
24. RTU'S CHW-1 AND 3 TO HAVE RETURN FANS AND RTU'S 4 , 5, 6, 7, 8, AND 9 TO HAVE 100% RELIEF FANS. PROVIDE VFD'S FOR RETURN AND RELIEF FANS. PROVIDE RETURN AND RELIEF FANS TO HAVE .65 ESP.
25. RTU'S CHW-1 AND 3 TO HAVE RETURN AIR DUCT TAPPED OUT OF BACK SIDE OF RTU AND SUPPLY AIR DUCT TAPPED OUT OF FRONT SIDE OF RTU, REFER TO DUCT TAP LOCATIONS ON ROOF PLAN.
26. RTU'S CHW-4 , 5, 6, 7, 8, AND 9 TO HAVE TWO RETURN AIR DUCTS TAPPED OFF SIDES OF RTU, ONE ON EACH SIDE OF RTU, REFER TO DUCT TAP LOCATIONS ON ROOF PLAN. SUPPLY AIR DUCTS TO BE TAPPED OFF BOTTOM OF RTU.
27. RTU-CHW-1: CIRCUIT NUMBER 1 RETURN FAN 460V/3 PH., 13.82 MCA, AND 15 MAX FUSE SIZE. CIRCUIT NUMBER 2 SUPPLY FAN MOTOR: 460V/3 PH., 26.25 MCA AND 45 MAX FUSE SIZE.
28. RTU-CHW-3: CIRCUIT NUMBER 1 RETURN FAN 460V/3 PH., 13.82 MCA, AND 15 MAX FUSE SIZE. CIRCUIT NUMBER 2 SUPPLY FAN MOTOR: 460V/3 PH., 17.50 MCA AND 30 MAX FUSE SIZE.
29. RTU'S CHW-4, 5, 6, 7: CIRCUIT NUMBER 1 SUPPLY FAN 460V/3 PH., 26.25 MCA, AND 45 MAX FUSE SIZE. CIRCUIT NUMBER 2 EXHAUST FAN MOTOR: 460V/3 PH., 11.50 MCA AND 20 MAX FUSE SIZE.
30. RTU'S CHW-8 AND 9: CIRCUIT NUMBER 1 SUPPLY FAN 460V/3 PH., 17.50 MCA, AND 30 MAX FUSE SIZE. CIRCUIT NUMBER 2 EXHAUST FAN MOTOR: 460V/3 PH., 11.50 MCA AND 20 MAX FUSE SIZE.
31. FOR CHILLED WATER AND HOT WATER PIPING, PROVIDE DOGHOUSE THAT IS EXTRA LONG AND EXTRA WIDE TO PREVENT RAIN WATER LEAKAGE.
32. PROVIDE WITH LIGHTS AND SERVICE OUTLET. CIRCUIT FROM BUILDING POWER NOT FROM POWER TO RTU.
33. PROVIDE WITH THRU BASE ELECTRICAL CONNECTIONS.
34. MID LIFE DIRTY FILTER PRESSURE DROP ALLOWANCE IS TO BE ACCOUNTED FOR BY THE UNIT MANUFACTURER IN THE UNITS INTERNAL STATIC PRESSURE CALCULATION.

RTU'S CONFIGURATION IS PER BASIS OF DESIGN TRANE RTU. IF ALTERNATE MANUFACTURERS ARE SUBMITTED, CONTRACTOR SHALL CAREFULLY COMPARE FOOTPRINT, WEIGHT, HEIGHT, DUCT CONNECTIONS, AND MANUFACTURER REQUIRED CLEARANCE CHANGES, ETC. TO ENSURE LAYOUT COORDINATES WITH ADJACENT EQUIPMENT, CLEARANCES, ETC. PRIOR TO FORMALLY SUBMITTING. IF WEIGHT CHANGES COORDINATE WITH STRUCTURAL ENGINEER TO CONFIRM IF STRUCTURAL DESIGN NEEDS TO BE REVISED.

WALL MOUNTED MINI SPLIT SYSTEM AC SCHEDULE

DESIGNATION				MECHANICAL		BASIS OF DESIGN	BASIS OF DESIGN	ELECTRICAL	
				COOLING					
TYPE	MARK	CFM	ESP	TOTAL MBH	SENS MBH	MANUFACTURER	MODEL	VOLT	PH
AC	1-1	800	0.1	31.0	24.0	MITSUBISHI	TPKAOA036	208	1
AC	1-2	800	0.1	31.0	24.0	MITSUBISHI	TPKAOA036	208	1
AC	1-3	700	0.1	21.1	17.3	MITSUBISHI	TPKA0A024	208	1
AC	1-4	700	0.1	21.1	17.3	MITSUBISHI	TPKA0A024	208	1
AC	1-5	700	0.1	21.1	17.3	MITSUBISHI	TPKA0A024	208	1

NOTES:
1. DIVISION 26 TO PROVIDE EACH AC WITH SERVICE DISCONNECT.
2. INSTALL WITH MANUFACTURERS RECOMMENDED CLEARANCES FOR MAINTENANCE.
3. MANUFACTURER SHALL PROVIDE T-STAT AND AUTOMATIC CHANGE OVER CONTROL FOR EACH AC UNIT.
4. PROVIDE WITH R410A REFRIGERANT.
5. REFRIGERANT PIPING SYSTEM SHALL BE ENGINEERED BY VRV MANUFACTURER.
6. THERMOSTATS TO BE HARD WIRED, REMOTE THERMOSTATS WHICH REQUIRE BATTERIES WILL NOT BE ALLOWED.
7. THERMOSTATS TO BE 24/7 PROGRAMMABLE.
8. COOLING CAPACITIES SHOWN ARE AT 105 DEG. F. AMBIENT AND HEATING CAPACITIES SHOWN ARE AT 12 DEG. F.
9. POWER FOR CU/AC IS SINGLE POINT, POWER IS TO CU AND DIV 26 IS RUN POWER FROM CU TO AC UNITS.

WALL MOUNTED MINI SPLIT SYSTEM CU SCHEDULE

		AMBIENT	ELECTRICAL				BASIS OF DESIGN	BASIS OF DESIGN
TYPE	MARK	TEMP	MCA	MFS	VOLT	PH	MANUFACTURER	MODEL
CU	1-1	105	25	31	208	1	MITSUBISHI	TRUYA0361
CU	1-2	105	25	31	208	1	MITSUBISHI	TRUYA0361
CU	1-3	105	19	25	208	1	MITSUBISHI	TRUYAO24
CU	1-4	105	19	25	208	1	MITSUBISHI	TRUYAO24
CU	1-5	105	19	25	208	1	MITSUBISHI	TRUYAO24

NOTES:
1. DIVISION 26 TO PROVIDE DISCONNECTS FOR ALL CONDENSING UNITS.
2. PROVIDE WITH MANUFACTURER APPORVED HAIL GUARD.
3. INSULATE ALL REFRIGERANT LINES WITH 1/2" ARMEFLEX INSULATION.
4. INSTALL UNIT WITH MANUFACTURERS RECOMMENDED CLEARANCES.
5. REFER TO SPECIFICATIONS/MANUFACTURES REQUIREMENTS FOR ADDITIONAL INFORMATION.
6. PROVIDE WITH WIND BAFFLE KIT FOR AMBIENT OPERATION DOWN TO 0 DEG. F
7. COOLING CAPCITIES AT 105 AMBIENT.
8. FOR CU/AC IS SINGLE POINT, POWER IS TO CU AND DIV 26 IS RUN POWER FROM CU TO AC UNITS.
9. APPROVED MANUFACTURER'S ARE SAMSUNG, LG AND MITSUBISHI. NO OTHER MANUFACTURER'S WILL BE ACCEPTED.

SINCE UNITS WILL BE INSTALLED AFTER JANUARY 1ST 2025 (CONFIRM IF THIS EPA AIM ENFORCEMENT DATE CHANGES), CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A UNIT MATCHING PERFORMANCE AND UTILIZING NEW REFRIGERANT WITH A GWP BELOW 700 PER EPA AIM ACT. IF THE FOOTPRINT, WEIGHT, HEIGHT, DUCT CONNECTIONS, OR MANUFACTURER REQUIRED CLEARANCE CHANGES ON UPDATED SELECTIONS, ENGINEER MUST BE NOTIFIED.

FOR ALL HVAC UNITS, INSTALL ALL NEW FILTERS 1 WEEK PRIOR TO SUBSTANTIAL COMPLETION AND 1 WEEK PRIOR TO SIX MONTHS WARRANTY WALK.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number 2022.012
Issue Date 10.22.25
Revised:

Sheet Title
MECHANICAL SCHEDULES

Sheet Number
M6.01

PUMP SCHEDULE

DESIGNATION		MECHANICAL										ELECTRICAL	
							MOTOR DATA		BASIS OF DESIGN				
TYPE	MARK	DUTY	GPM	HEAD (FT)	NPSHr (FT)	EFF (%)	HP	RPM	MANUFACTURER	MODEL	ACCESSORIES	VOLT	PH
CWP	1	CONDENSER WATER	600	117	15.5 Feet	77.66	30	1750	GRUNFOS	NBS 030-135-4P	A,B	460	3
CWP	2	CONDENSER WATER	600	117	15.5 Feet	77.66	30	1750	GRUNFOS	NBS 030-135-4P	A,B	460	3

ACCESSORIES:
(A) INTEGRATED VFD WILL NOT BE ACCEPTED ONLY REMOTE VDF'S.MOUNT VDF NEXT TO PUMP ON WALL. VFD'S TO HAVE INTEGRAL DISCONNECTS.
(B) PUMP TO BE END SUCTION TYPE.
(C) PUMP TO BE IN-LINE TYPE.

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. APPROVED MANUFACTURERS ARE: TACO, B&G, GRUNDFOS, ARMSTRONG. **NO OTHER MANUFACTURERS WILL BE ACCEPTED.**
3. PROVIDE PUMP INLET ISOLATION VALVES.
4. THE PERFORMANCE AND CAPACITY LISTED ABOVE, INCLUDING, INCLUDING EFFICIENCY, IS BASED ON AN OPTIMIZED IMPELLAR TRIM. PUMP SUBMITTALS SHOULD INCLUDE SELECTION AND PUMP CURVES FOR OPTIMIZED IMPELLER TRIM, AS WELL AS PERFORMANCE WITH THE LARGEST IMPELLER TRIM AVAILABLE, THAT DOES NOT ALLOW AN OVERLOAD CONDITION. THIS APPLIES TO ALL PUMPS CONNECTED TO VFDS.
5. SHAFT AND SLEAVE : STAINLESS STEEL WITH BRONZE SLEAVE OR GREATER.
6. PREMIUM EFFIENCY NON-OVER LOADING TEFC OR TEAO MOTORS. ODP NOT ALLOWED.
7. ONLY 1800 AND 3600 RPM MOTORS ALLOWED.
8. EACH PUMP IS 100% OF COOLING TOWER CAPACITY (ONLY ONE PUMP TO RUN AT A TIME).
9. TO MEET ASHRAE 90.1 RATING, DEMAND OF NO MORE THAN 30% OF DESIGN WATTAGE AT 50% DESIGN WATER FLOW.
10. CONDENSER WATER PUMPS ARE TO BE END SUCTION.
11. FOR EACH PUMP, PROVIDE A RIB RELAY WITH MANUAL HOA SWITCH. SWITCH TO HAVE CAPIBILITY TO BE CONNECTED TO BMS FOR BMS TO MONITOR IF SWITCH IS IN MANUAL OVERRIDE.

VAV BOXES WITH HOT WATER REHEAT1

DESIGNATION		DESIGN	MIN	HEATING WATER COIL PERFORMANCE						BASIS OF DESIGN	
TYPE	MARK	COOLING CFM	COOLING CFM	HEATING CFM	MIN. BTUH	EWT (°F)	LWT (°F)	GPM	INLET	MANUFACTURER	MODEL
VRH	5-7	400	100	280	12099.5	160	140	1.5	8"	TITUS	DESV

1. BOXES SHALL BE COMPLETE WITH DDC CONTROLS AND CONNECTED TO BULDING AUTOMATION SYSTEM.
2. BOXES SHALL BE PRESSURE INDEPENDENT
3. PROVIDE WITH 2-WAY MODULATING HOT WATER VALVE (24 V). MODULATING VALVES PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
4. COORDINATE WITH FLOOR PLANS FOR RIGHT OR LEFT HAND ORIENTATION OF VAV BOX. IF BOX IS FLIPPED FROM STANDARD ORIENTATION, ENSURE TO CONNECT HOT WATER SUPPLY LINE TO BOTTOM OF COIL.
5. APPROVED MANUFACTURER'S ARE ENVIROTEC, NAILER, TITUS, TRANE, CARRIER, PRICE. **NO OTHER MANUFACTURERS WILL BE ACCEPTED.**
6. PROVIDE FACTORY 277V/1 TO 24 V TRANSFORMER. DIVISION 26 IS TO PROVIDE 277V/1 1PH. TO EACH VAV. DIV 26 TO PROVIDE A MOTOR RATED DISCONNECT SWITCH.
7. PROVIDE NUMBER OF ROWS AS REQUIRED FOR MBH AND WATER TEMPERATURES SHOWN.
8. PROVIDE FIBER FREE LINER.

PUMP HEAD CALCULATIONS

COMPONENT	PRESSURE DROP (FT)
PIPING	26 *
BALANCING VALVES	10
CHECK VAVLE & STRAINER	15
CHILLER	23'
COOLING TOWER HEIGHT	16'
TOTAL	90
TOTAL W/ 30% FOS	117

PIPING PRESSURE DROP CALCULATION
1. FURTHEST RUN PIPE LENGTH (SUPPLY & RETURN) = 200'
2. EQUIVALENT LENGTH = 8 elbows x 30' = 240 + 200' = 440'
3. AGED PIPE PRESSURE DROP ASSUME: 6'/100'
TOTAL PIPING PRESSURE DROP: 440 x (6'/100') = 26'

GRILLES-REGISTERS-DIFFUSERS

DESIG.	DUTY	TYPE	MOUNTING LOCATION	MATERIAL	VOLUME CONTROL	FINISH	AIR PATTERN CONTROL	METHOD OF SUPPORT	EQUAL TO MANUFACTURER AND MODEL NO.	REMARKS
A	SUPPLY	SQ. PLAQUE	LAY-IN CLG	STEEL	NO	OFF WHITE	YES	T-BAR	TITUS OMNI 24X24 FACE	SEE NOTE 1
B	RETURN	PERFORATED	LAY-IN CLG	STEEL	NO	OFF WHITE	NO	T-BAR	TITUS PAR 24X24 FACE	
C	SUPPLY	SLOT	LAY-IN CLG	STEEL	NO	BLACK	YES	T-BAR	TITUS TBDI80 2@1"	SEE NOTE 1,2
E	EXHAUST	PERFORATED	LAY-IN CLG	STEEL	NO	OFF WHITE	NO	T-BAR	TITUS PAR 24X24 FACE	SEE NOTE 3
E1	EXHAUST	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	BLACK	YES	SURFACE	TITUS FL-HT 24" LONG	SEE NOTE 1,4
F	SUPPLY RETURN	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	BLACK	YES	SURFACE	TITUS FL-JT	SEE NOTE 1,5
F1	SUPPLY	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	BLACK	YES	SURFACE	TITUS FL-HT	SEE NOTE 1,6

1) NECK SIZES AS FOLLOWS:

DESIGNATION "A", "E"

CFM RANGE	NECK SIZE
000 - 250	8"Ø
255 - 400	10"Ø
405 - 550	12"Ø
555 - 700	14"Ø
701 - 800	15"Ø

DESIGNATION "C"

CFM RANGE	NECK SIZE / MODEL	LENGTH
000 - 220	8"Ø	4'-0"
221 - 270	10"Ø	4'0"
271 - 325	12"Ø	4'0"
330-400	12"	5'0"

2) FOR TYPE C DIFFUSER, PROVIDE WITH TWO SLOT OPENINGS AT 1" WIDE EACH.

3) FOR TYPE E DIFFUSERS, PROVIDE A SQUARE TO ROUND DUCT TAP TRANSITION.

4) FOR TYPE E1 DIFFUSER, PROVIDE NUMBER OF 2' LONG SUPPLY AIR PLENUMS AS SHOWN WITH 8" NECK FOR EACH PLENUM. REFER TO CHART FOR NECK SIZE. COORDINATE EXACT LENGTH OF SLOT WITH ARCHITECT. EXHAUST AIR PLENUMS TO BE FABRICATED BY TITUS. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

5) FOR TYPE F DIFFUSER, DIFFUSER TO BE JET THROW TYPE. DIFFUSER TO BE SIDE WALL MOUNTED AND HAVE TWO 3" WIDE SLOT OPENINGS. SUPPLY AND RETURN DUCTS THRU EXTERIOR WALL TO CONNECT TO DIFFUSER. NO PLENUMS TO BE PROVIDED. COORDINATE EXACT LENGTH OF SLOT WITH ARCHITECT. UNUSED PORTION TO BE BLANKED OFF. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

6) FOR TYPE F1 DIFFUSER, PROVIDE NUMBER OF 2' LONG SUPPLY AIR PLENUMS AS SHOWN WITH 8" NECK FOR EACH PLENUM. REFER TO CHART FOR NECK SIZE. COORDINATE EXACT LENGTH OF SLOT WITH ARCHITECT. EXHAUST AIR PLENUMS TO BE FABRICATED BY TITUS. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

FOR EACH FLOW BAR TYPE DIFFUSER, SEAL EACH END OF SUPPLY OR EXHAUST PLENUM FOR A TIGHT SEAL OF PLENUM TO DIFFUSER. USE RUBBER BULB SEAL AT BOTTOM EDGE OF END CAPS, BULB SEAL EQUAL TO TRIM SEAL -15002. ALSO PROVIDE 6" LONG METAL BLANK OFFS AT EACH END OF PLENUMS.

ACCEPTABLE MANUFACTURER'S ARE TITUS, PRICE, METAL AIRE, AND NAILOR. NO OTHER MANUFACTURE'S WILL BE ACCEPTED.

FAN SCHEDULE

DESIGNATION		MECHANICAL											ELECTRICAL		
											BASIS OF DESIGN				
TYPE	MARK	SERVICE	LOCATION	TYPE	CONTROL	CFM	ESP (IN W.G.)	DRIVE	ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	MANUFACTURER	MODEL	HP	RPM	VOLT	PH
CEF	1	EXHAUST	CRAWL SPACE	IN-LINE	BMS	800	0.65	DIRECT	A,C,K	70	COOK	GN-862	.5	1069	120	1
EF	1	EXHAUST	ROOF	CENTRIFUGRAL	BMS	1830	0.75	DIRECT	A,B,C,D,G,L	60	COOK	13517D	5/8	1760	208	1
TEF	1	EXHAUST	ROOF	CENTRIFUGRAL	BMS	120	0.25	DIRECT	A,B,C,D,G,L	20	COOK	70C15	1/20	1760	120	1
TEF	2	EXHAUST	ROOF	CENTRIFUGRAL	BMS	120	0.25	DIRECT	A,B,C,D,G,L	20	COOK	70C15	1/20	1760	120	1
TEF	3	EXHAUST	ROOF	CENTRIFUGRAL	BMS	120	0.25	DIRECT	A,B,C,D,G,L	20	COOK	70C15	1/20	1760	120	1

ACCESSORIES:
(A) - GRAVITY BACKDRAFT DAMPER
(B) - BIRDSCREEN
(C) - PRE-WIRED NON-FUSED SERVICE DISCONNECT. IF FAN DOES NOT HAVE A VFD, ALSO PROVIDE A R23 MOTOR STARTER
(D) - ROOFCURB
(E) - VFD WITH INTEGRAL DISCONNECT
(F) - SPRING ISOLATION
(G) -EC MOTOR WITH MOTOR MOUNTED SPEED CONTROL TO ADJUST SPEED AT FAN.
(H)-NO EQUIPMENT PAD REQUIRED, ROOF CURB TO BE PROVIDED BY GENERAL CONTRACTOR FOR FAN TO BE MOUNTED ON.
(I) -RAIN HOOD AT FAN OUTLET
(J) MOTOR SIDE GUARD
(K) SPEED CONTROL SWITCH
(L) HINGED BASE
(M) DUCT MOUNTED SMOKE DETECTOR
(N) RAIN HOOD AT INLET
(O) DIVISION 26 TO PROVIDE DISCONNECT WITH AUXILLARY CONTACT TO TIE INTO VFD SAFETY CIRCUIT.
(P) UL RATED FOR SMOKE REMOVAL/ MUST HAVE TWO BELT DRIVE
(Q) AMCA A RATING FOR BATTERY EXHAUST
(R) ACOUSTICALLY INSULTED HOUSING.

NOTES:
1) REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2) CONTROL DESCRIPTION (WHERE PROVIDED, REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION)
BMS - BUILDING AUTOMATION SYSTEM
T-STAT - LINE VOLTAGE THERMOSTAT PROVIDED BY DIV 23.
H-STAT - HUMIDISTAT CONTROL
TCLOCK - TIMECLOCK FOR OPERATION (PROVIDED BY DIV. 23 AND INSTALLED BY DIV. 26)
SWITCH - MOTOR RATED SWITCH BY DIV. 26.
CONT. - CONTINUOUS OPERATION
3) ALL ROOF CURBS ARE STANDARD INSULATED TC-2 CURBS WITH GASKET, UNLESS OTHERWISE NOTED.
4) PROVIDE VFD RATED MOTOR WHEN FAN IS EQUIPPED WITH VFD.
5) PROVIDE FANS WITH OSHA RATED GUARDS.
6) APPROVED MANUFACTURERS - GREENHECK, COOK, TWIN CITY, CAPTIVE AIR. **NO OTHER MANUFACTURERS WILL BE ACCEPTED.**
7) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.
8) WIRE FAN TO LIGHTING CONTROL SYSTEM, REFER TO ELECTRICAL PLANS FOR DETAILS, BMS TO MONITOR FAN ON/OFF STATUS

FOR FAN CURBS, CURB HEIGHT SO TOP OF CURB IS 18" ABOVE ROOF.

Mechanical Equipment Extended Warranty Schedule - DISD Requirements

Spec Section

	Product	Extended Warranty Description
Division 23 - HVAC		
230513	Variable frequency drives	30 months parts and labor for all components
230533	Electric heating cables	2 years parts and labor
237314	Custom Air-Handling Units	5 years parts and labor for all components.
237413 and 237414	Packaged rooftop units and Packaged outdoor central AHU	10 years parts and labor for all components.
238123	Computer room air-conditioners	5 years parts and labor for all components.

Notes:
1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.
2. Extended warranties listed above also begin at the date of substantial completion.
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

ELECTRIC BASE BOARD HEATER

DESIG.							
TYPE	MARK	LENGTH	WATTS	MANUFACTURER	MODEL	VOLT	PH
BBH	1-1	5'	733	RUNTAL	EB3-208D	208	1

NOTES :
1. PROVIDE WITH PEDESTALS.
2. COORDINATE WITH MANUFACTURER FOR ALL LABOR AND MATERIALS REQUIRED FOR A WORKING SYSTEM.
3. COORDINATE FINISH WITH ARCHITECT.
4. WHERE TWO HEATERS ARE BUTTED TOGETHER, HEATERS TO LOOK CONTINUOUS.
5. FIELD VERIFY CONDITIONS AND COORDINATE WITH ARCHITECT IN CASE SECTION LENGTHS NEED TO BE REDUCED.
6. APPROVED MANUFACTURER'S ARE : RUNTAL. ALL SUBSTITUTIONS MUST BE APPROVED IN WRITING, BEFORE BID.
7. PROVIDE DRAW COVERS FOR A CLEAN LOOK.
8. FINISH TO MATCH WINDOW MULLION.
9. DIVISION 26 TO PROVIDE DISCONNECTS FOR BASE BOARD HEATERS.

EXISTING VAV BOX TAB INFORMATION

MARK	GPM
VRH-10-1	1.9
VRH-10-2	2.2
VRH-10-3	1.9
VRH-10-3	1.9
VRH-10-4	1.9
VRH-10-5	1.9
VRH-10-6	1.9
VRH-10-7	1.9
VRH-10-8	1.9
VRH-10-9	2.6
VRH-10-10	2.6
VRH-10-11	1.2
VRH-10-12	1.9
VRH-10-13	1.2
VRH-10-14	2.6
VRH-10-15	1.9
VRH-10-16	1.9
VRH-10-17	1.9
VRH-10-18	1.9
VRH-10-19	2.0
VRH-10-20	1.9
VRH-10-21	1.6
VRH-10-22	2.6
VRH-10-23	1.2

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

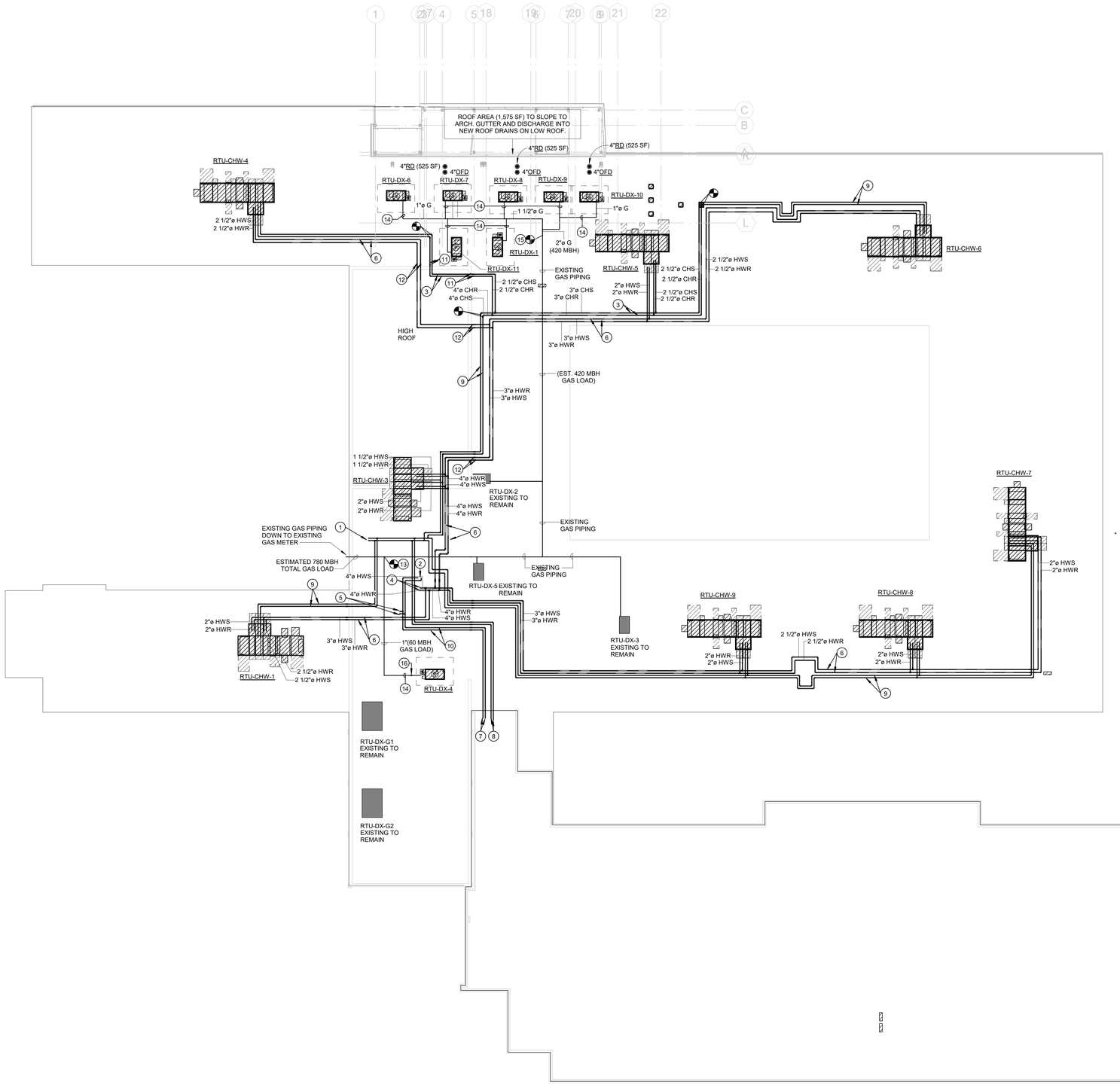
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MECHANICAL SCHEDULES

Sheet Number
M6.02



1 ROOF LEVEL - MEP PIPING PLAN
1/16" = 1'-0"

KEYED NOTES - SHEET MEP2.01

1 EXISTING CHILLED WATER SUPPLY AND RETURN LINES DOWN THRU ROOF.
2 EXISTING HOT WATER SUPPLY AND RETURN LINES DOWN THRU ROOF.
3 NEW CHILLED WATER SUPPLY AND RETURN LINES PROVIDE ROOF PIPE SUPPORTS.
4 NEW HOT WATER SUPPLY AND RETURN LINES DOWN THRU ROOF TO CONNECT TO EXISTING HOT WATER PIPING IN BOILER PLANT BELOW. REFER TO HOT WATER RISER ON SHEET M4.02 FOR CONNECTION LOCATIONS.
5 CAP EXISTING HOT WATER SUPPLY AND RETURN LINES.
6 NEW HOT WATER SUPPLY AND RETURN LINES PROVIDE ROOF PIPE SUPPORTS.
7 EXISTING HOT WATER SUPPLY AND RETURN LINES TO CONTINUE TO SOUTH WING AHU AND VAV BOXES.
8 EXISTING CHILLED WATER SUPPLY AND RETURN LINES TO CONTINUE TO SOUTH WING AHU.
9 EXISTING CHILLED WATER SUPPLY AND RETURN LINES TO REMAIN.
10 EXISTING HOT WATER SUPPLY AND RETURN LINES TO REMAIN.
11 NEW CHILLED WATER SUPPLY AND RETURN LINES UP TO HIGH ROOF.
12 NEW HOT WATER SUPPLY AND RETURN LINES UP TO HIGH ROOF.
13 CONTRACTOR TO EXTEND NEW LOW PRESSURE GAS PIPING (7"-14" W.C.) FROM NEW ROOF TOP UNIT AND CONNECT TO EXISTING GAS PIPING ON ROOF. CONTRACTOR TO FIELD VERIFY, LOCATION, PRESSURE AND EXISTING CONDITIONS OF EXISTING GAS PRIOR TO NEW INSTALLATION.
14 CONTRACTOR TO REFER TO DETAIL 8 ON SHEET P5.02 FOR GAS PIPING TO ROOF TOP UNIT INSTALLATION REQUIREMENTS. GAS PIPE SIZE TO BE DETERMINED BASED ON EXISTING GAS PRESSURE AND DEVELOPED RUN OF LOW PRESSURE GAS PIPING FROM GAS REGULATOR. TYPICAL FOR EACH ROOF TOP UNIT WITH A GAS CONNECTION.
15 CONTRACTOR TO CONNECT NEW GAS PIPING TO EXISTING GAS PIPING ON ROOF AND REGULATE NEW GAS PIPING TO 7"-14" WATER COLUMN. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND EXISTING CONDITIONS OF EXISTING GAS PRIOR TO NEW INSTALLATION.
16 PROVIDE GAS REGULATOR WHEN REQUIRED TO REDUCE GAS PRESSURE TO LOW PRESSURE 7"-14" W.C.

MEP GENERAL NOTES:

- PROVIDE HEAT TRACE AND ALUMINUM JACKET FOR ALL NEW CHILLED WATER PIPING AND NEW HOT WATER PIPING. HEAT TRACE TO BE RAYCHEM 8XL (8 WATTS PER FOOT) 120V/1 PH., INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- WHEN GAS SERVICE IS INCREASED, RESET/RECALIBRATE ALL EXISTING TO REMAIN GAS REGULATORS PER DISD TECHNICAL DESIGN GUIDELINES.
- NEW GAS LINES INSTALLED TO BE LEAK TESTED AND PAINTED WITH PROTECTIVE PAINT.

CITY OF DALLAS STAMP

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

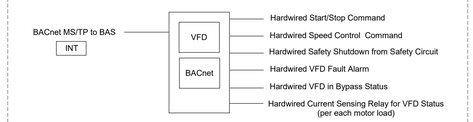
Sheet Title
ROOF LEVEL - MEP PIPING PLAN

Sheet Number
MEP2.01

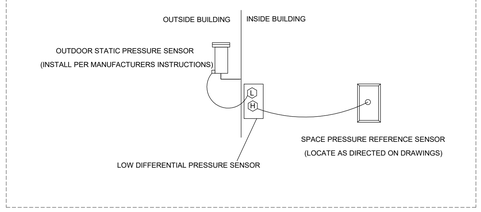
CONTROLS/BUIDLING AUTOMATION SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
SP	STATIC PRESSURE SENSOR
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR - WALL MOUNT
NO2	NITROGEN OXIDE SENSOR
O2	OXYGEN SENSOR
C	COMBINATION TEMPERATURE, HUMIDITY, CO2 SENSOR - WALL MOUNT
T	TEMPERATURE SENSOR - WALL MOUNT OR THERMOSTAT
WT	WIRELESS TEMPERATURE SENSOR - WALL MOUNT OR THERMOSTAT
RH	HUMIDITY SENSOR - WALL MOUNT OR HUMIDISTAT
WRH	WIRELESS HUMIDITY SENSOR - WALL MOUNT OR HUMIDISTAT
WB	WETBULB SENSOR - WALL MOUNT
T	TEMPERATURE SENSOR
SSD	SUPPLY SMOKE DECECTOR
RSD	RETURN SMOKE DECECTOR
OSD	OUTSIDE AIR SMOKE DECECTOR
AFMS	AIRFLOW MONITORING STATION - DUCT MOUNT
CO2	CARBON DIOXIDE SENSOR - DUCT MOUNT
CO	CARBON MONOXIDE SENSOR - DUCT MOUNT
MD	MANUAL BALANCING DAMPER
M	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER
DP	DIFFERENTIAL PRESSURE SENSOR
LTD	LOW TEMPERATURE DETECTOR / FREEZESTAT
FRZ	LOW TEMPERATURE DETECTOR / FREEZESTAT
GRD	GRAVITY RELIEF DAMPER

NOTES:
1.) CONTROLS

TYPICAL VFD WIRING AND INSTALLATION



BUILDING PRESSURE SENSOR INSTALLATION



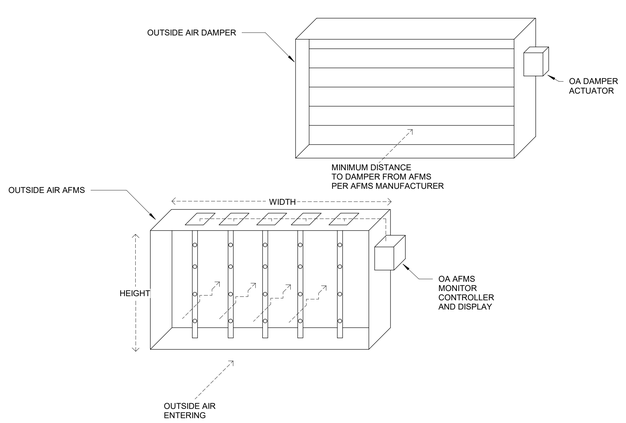
BUILDING AUTOMATION / MECHANICAL CONTROLS GENERAL NOTES:

A. GENERAL NOTES APPLY TO ALL MECHANICAL CONTROLS SHEETS.
B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES & REGULATIONS.
C. MECHANICAL CONTROLSDRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES FOR FLOWSTATIONS, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
D. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
E. CONTRACTOR TO VERIFY ALL FEILD CONDITIONS PRIOR TO ORDERING ANY MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION.
F. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO ROUGH IN.
G. ELECTRICAL DIVISION 26 CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS SHOWN ON PLANS. COORDINATE LOCATIONS OF T-STATS WITH ELECTRICAL DIVISION 26 CONTRACTOR.
H. IF CONTROLS POINTS LIST CALLS FOR TRENDING, SET THE ANALOG VALUES UP FOR 10MIN (ADJ.) TREND INTERVALS TRENDS AND THE BINARY VALUES TO BE TRENDED BY CHANGE OF VALUE.

BAS CONTRACTOR SHALL PROVIDE A PROPERLY SIZED BADGER DOMESTIC WATER METER OR EQUAL WITH PULSE OUTPUT FOR WATERCONSUMPTION RECORDINGS THE PLUMBING CONTRACTOR SHALL INSTALL THE METER AND BAS CONTRACTOR SHALL WIRE THE METER TO A BAS CONTROLLER. THE DOMESTIC WATER METER PROVIDED MUST BE LEAD FREE CONTRUCTION AND FULLY COMPLY WITH NSF/ANSI 61 STANDARDS.
BAS CONTRACTOR SHALL PROVIDE A PROPERLY SIZED AND PLUMBED BUILDING PRESSURE SENSOR, WITH ALL NECESSARY COMPONENTS, FOR EACH LEVEL 1 THRU 4 .

BAS CONTRACTOR SHALL CONNECT LEAK DETECTORS TO BAS .

SAMPLE DUCT MOUNTED THERMAL DISPERSION OUTSIDE AIRFLOW STATION AIRFLOW STATION INSTALLATION DETAIL



2 OUTSIDE AIR AIRFLOW MONITORING STATION DETAIL
NOT TO SCALE

BUILDING AUTOMATION SYSTEM (BAS) CONTRACTOR TO SUBMIT THE GRAPHICS FOR THE SYSTEM AS A REQUIRED SUBMITTAL. UPLOAD THE PRE-APPROVED GRAPHICS TO THE BAS NO LATER THAN 30 DAYS BEFORE STAFF OCCUPANCY.

CONTROLS VENDOR TO SCREENSHOT EXISTING CONTROLS SYSTEM GRAPHICS FOR ENTIRE FACILITY PRIOR TO WORK COMMENCING AND SUBMIT THIS AUDIT INFORMATION TO DALLAS ISD DESIGNATED REPRESENTATIVE

ON 10-14-2024 PHONE CONVERSATION, GEORGE VANDERHEYDEN WITH DISD CONFIRMED THAT RUNYON HAS EXISTING LONWORKS CONTROLS. ALL NEW CONTROLS TO BE LONWORKS.

FOR ALL EQUIPMENT WITH MANUAL HOA SWITCH, THE BAS GRAPHIC TO CHANGE COLOR TO RED TO INDICATE THAT EQUIPMENT HAS BEEN LOCALLY OVERRIDDEN.

DESIGN CRITERIA LIST

OUTDOOR DESIGN CONDITIONS FOR DISD SCHOOLS
SUMMER:
DRY BULB TEMPERATURE = 101 DEG F
WET BULB TEMPERATURE = 75 DEG F
WINTER:
DRY BULB TEMPERATURE = 22 DEG F

INDOOR DESIGN CONDITIONS FOR CITY, STATE
SUMMER:
DRY BULB TEMPERATURE = 72 TO 74 DEG F
HUMIDITY = 40% TO 50%
WINTER:
DRY BULB TEMPERATURE = 70 TO 72 DEG.
HUMIDITY = NO MINIMUM

INTEGRATION TO 3RD PARTY SYSTEMS TO THE BAS

INTEGRATE VIA BACNET PROTOCOLS TO EACH DEVICE TO MONITOR, TREND, CONTROL, AND ALARM ALL MAPABLE. MAP EVERY INTEGRATED POINT AVAILABLE FROM INTEGRATED EQUIPMENT TO THE BAS. SELECTIVE POINT MAPPING PRACTICES FROM A BAS CONTRACTOR WILL NOT BE ACCEPTABLE. ALL SETPOINT/COMMAND CONTROL POINTS SHALL HAVE READ/WRITE PRIORITIES FOR ANALOG AND BINARY VALUES. ALL MULTI-STATE INTEGRATED POINTS SHALL HAVE DESCRIPTIVE IDENTIFIERS FOR EACH STATE. THE USE OF NUMERICAL STATES AND LEGENDS TO IDENTIFY THE STATE OF MULTI-STATE POINTS ON THE BAS WILL NOT BE ACCEPTABLE. PROVIDE A FULL GRAPHICS PAGE ON THE BAS FOR EACH SYSTEM WITH ALL MAPPED POINTS. GRAPHICS SHALL INCLUDE ALL MAPPED POINTS INCLUDING CONSUMPTION AND ALARM DATA FOR EACH SYSTEM AND BE REPRESENTED BY ANIMATED GRAPHICS THAT CLOSELY RESEMBLES THE SPECIFIC SYSTEM.

THE BAS SHALL INTEGRATE TO THE FOLLOWING SYSTEMS:

1. CRAWL SPACE SUMP PUMP (INTEGRATE TO EACH ONE), FIELD VERIFY IF THERE IS AN EXISTING CRAWL SPACE SUMP PUMP.
2. SUB-METER AT COOLING TOWER MAKEUP WATER

MISCELLANEOUS MONITORING AND ALARMS
THE BAS SHALL MONITOR/ALARM THE FOLLOWING POINTS:

1. GENERAL FIRE ALARM.
2. GENERAL FIRE TROUBLE ALARM.
3. GENERAL FIRE SUPERVISORY ALARM.
4. SPACE TEMPERATURE MONITORING AND HIGH TEMPERATURE ALARMS FOR ROOMS WITH AC UNITS : ROOMS IDF 01, IDF 02, IDF 03, AMD MDF 01. ALARM IF TEMPS ARE GREATER THAN 80°F(ADJ.). PROVIDE A BMS THERMOSTAT IN THIS ROOMS.
5. HUMIDITY, CO2, ENTHALPY (CALCULATED), DRY AND WET BULB TEMPERATURE OF THE OUTSIDE AIR. REFER TO SHEET MEPZZZ FOR POINTS LIST AND ADDITIONAL REQUIREMENTS.
6. RETURN AIR CO2 LEVELS . ALARM IF ABOVE 800 PPM (ADJ.)
7. FOR NEW WATER HEATER PROVIDE HOT WATER HEATER EMERGENCY DRAIN PAN LEAK DETECTORS (TYPICAL OF EACH WATER HEATER). ALARM IF LEAK DETECTED.
8. FOR NEW WALL MOUNTED AC UNITS CONDENSATE LEAK DETECTORS IN SECONDARY PANS, PROVIDE ALL CONTROLS REQUIRED TO CONNECT DIRECTLY TO FACTORY LIEBERT LEAK DETECTOR FOR BMS TO ALARM IF LEAK DETECTED.
9. ALL HEAT TRACE VIA CURRENT SENSING RELAYS

POWER FOR CONTROL DEVICES NOTES:

FOR MOTORIZED DAMPERS FOR CRAWL SPACE SUPPLY FAN DAMPERS, CONTROL CONTRACTOR SHALL PROVIDE ONE 24V TRANSFORMER FOR EACH MOTORIZED DAMPER SERVED FROM 120V J-BOX. PROVIDE CONTROL WIRE TO MOTOR. REFER TO ELECTRICAL PLANS AND PANEL SCHEDULES ON ELECTRICAL SHEETS.

FOR EACH CHILLED WATER RTU, CONTROL CONTRACTOR SHALL PROVIDE ONE 24V TRANSFORMER FOR BOTH THE CHILLED WATER VALVE AND HOT WATER VALVE(S) SERVED FROM 120V J-BOX. PROVIDE CONTROL WIRE TO VALVES. REFER TO ELECTRICAL PLANS AND PANEL SCHEDULES ON ELECTRICAL SHEETS.

FOR EACH CHILLED WATER RTU, CONTROL CONTRACTOR SHALL PROVIDE ONE 24V TRANSFORMER FOR THE OUTSIDE AIR, RETURN DAMPERS, AND RELIEF DAMPERS AT MIXED AIR PLENUM SERVED FROM 120V J-BOX. PROVIDE CONTROL WIRE TO DAMPERS. REFER TO ELECTRICAL PLANS AND PANEL SCHEDULES ON ELECTRICAL SHEETS.

FOR NEW HOT WATER REHEAT VAV BOX, CONTROLS CONTRACTOR TO WIRE 24 VOLT POWER FROM VAV BOX TRANSFORMER TO VAV BOX HOT WATER VALVE.

PROVIDE HUMIDISTATS IN ALL OCCUPIED ROOMS SERVED BY NEW DX RTU'S. FOR NEW CHW RTU'S, PROVIDE HUMIDISTATS IN RETURN AIR DUCTS.

PROVIDE CO2 SENSORS IN RETURN OF EACH CHW AND DX RTU AND EACH HIGH OCCUPANCY ROOMS (25 PEOPLE PER 1000 SQ. FT OR GREATER) SERVED BY RTU-CHW-1, RTU-CHW-3, AND ALL RTU-DX UNITS.

PROVIDE COMBINATION TEMPERATURE, HUMIDITY, CO2 SENSER IN ROOMS WHERE ALL 3 ARE REQUIRED.

BASE BOARD HEATERS

PROVIDE BAS TEMPERATURE SENSOR FOR BASEBOARD HEATERS IN RECEPTION ROOM. HEATERS TO ONLY COME ON DURING OCCUPIED HOURS AND TO COME ON IF ROOM TEMPERATURE AT SENSOR IS BELOW 70 DEG.F. (ADJ). ENSURE THAT HEATER IS NOT ON WHEN RTU-DX-7 IS IN COOLING MODE. PROVIDE AND INSTALL CONTACTORS, WIRING AND ALL OTHER DEVICES AS REQUIRED TO ACCOMPLISH THIS.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 8000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

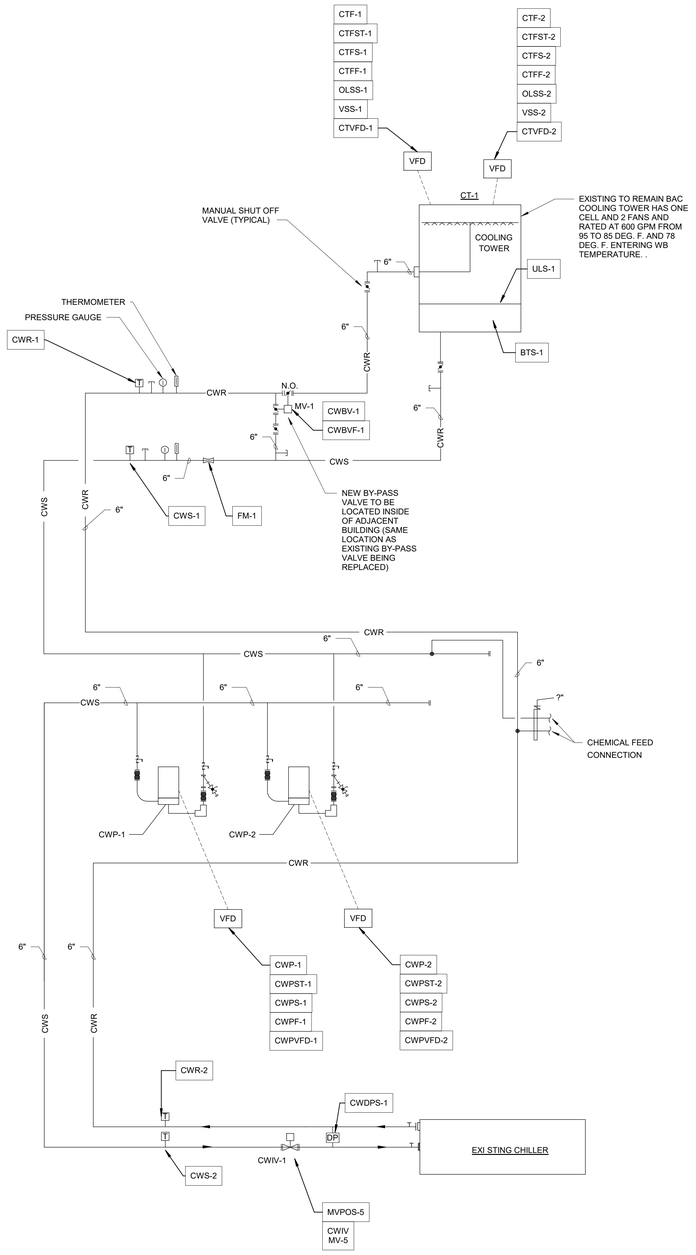
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

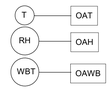
Sheet Title
MEP
CONTROLS-GENERAL

Sheet Number
MEP7.01



1 Condenser Water Piping and Controls Schematic *FOR CHILLERS*
1/8" = 1'-0"

COOLING TOWER YARD OUTSIDE AIR CONDITIONS



COOLING TOWER MISC. CONTROLS

BDCM

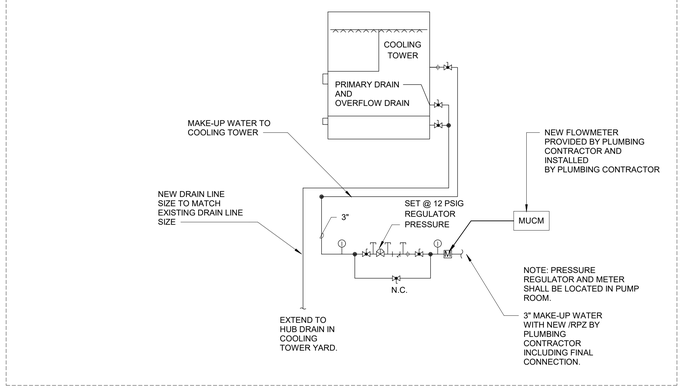
BHS

HTS

ALL PIPING SHOWN ON THIS SHEET IS NEW. ALL CONTROL DEVICES SHOWN ON THIS SHEET ARE NEW,(INCLUDING WATER VALVES BODIES) REMOVE ALL EXISTING DEVICES. COOLING TOWER IS EXISTING TO REMAIN.

ALL MOTORIZED WATER VALVES SHOWN ON THIS SHEET ARE TO BE 120 V.

COOLING TOWER BASIN FILTER, PRIMARY DRAIN AND OVERFLOW, AND MAKE-UP WATER DETAIL (TYPICAL OF EACH ROW OF TOWER SEE ROOF PLAN)



CONDENSER WATER PLANT CONTROL VALVE SCHEDULE

Tag ID	Equipment Served	Application	Valve Pattern	Flow (GPM)	Valve Set Up	Pressure Dependent or Pressure Independent	Valve Actuator Type	120vac or 24 vac
MV-1	CT Bypass Valve	CW	3-Way Butterfly with Spool Piece	600	NO to Tower /FIP	Pressure Dependent	Open Closed with Hand Wheel	120vac

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP CONTROLS - CONDENSER WATER

Sheet Number
MEP7.02

Condenser Water System								
Reference	Point Name	AI	AO	BI	BO	INTEGRATION	TREND	SHOW ON GRAPHIC
BDCM	Blow Down Water Consumption Meter (Pulse Counter)			X			X	X
BHS	Basin Heater Status (Typical of Each)			X			X	X
BTS-1	Basin Temp Sensor	X					X	X
CTF-1	Cooling Tower Fan Start/Stop				X		X	X
CTF-2	Cooling Tower Fan Start/Stop				X		X	X
CTFF-1	Cooling Tower Fan VFD Fault			X			X	X
CTFF-2	Cooling Tower Fan VFD Fault			X			X	X
CTFS-1	Cooling Tower Fan VFD Speed Command		X				X	X
CTFS-2	Cooling Tower Fan VFD Speed Command		X				X	X
CTFST-1	Cooling Tower Fan StatusAMPS	X					X	X
CTFST-2	Cooling Tower Fan Status Amps	X					X	X
CTVFD-1	Variable Frequency Drive Control Integration					X	X	X
CTVFD-2	Variable Frequency Drive Control Integration					X	X	X
CWBV-1	Condenser Water Bypass Valve		X				X	X
CWBVF-1	Condenser Water Bypass Valve Feedback	X					X	X
CWV MV-5	Condenser Isolation Valve				X		X	X
CWP-1	Condenser Water Pump Start/Stop				X		X	X
CWP-2	Condenser Water Pump Start/Stop				X		X	X
CWPF-1	Condenser Water Pump VFD Fault			X			X	X
CWPF-2	Condenser Water Pump VFD Fault			X			X	X
CWPS-1	Condenser Water Pump VFD Speed Command		X				X	X
CWPS-2	Condenser Water Pump VFD Speed Command		X				X	X
CWPST-1	Condenser Water Pump Status Amps	X					X	X
CWPST-2	Condenser Water Pump Status Amps	x					X	X
CWPVFD-1	Variable Frequency Drive Control Integration					X	X	X
CWPVFD-2	Variable Frequency Drive Control Integration					X	X	X
CWR-1	Condenser Water Return Temp	X					X	X
CWR-2	Condenser Water Return Temp	X					X	X
CWS-1	Condenser Water Supply Temp	X					X	X
CWS-2	Condenser Water Supply Temp	X					X	X
FM-1	Flowmeter	X					X	X
HTS	Heat Trace Status (Typical of Each)			X			X	X
MUCM	Make Up Water Consumption Meter (Pulse Counter)			X			X	X
MVPOS-5	Valve position feedback	X					X	X
OAH	Outside Air Humidity	X					X	X
OAT	Oustise Air Temp	X					X	X
OAWB	Outside Air Wetbulb	X					X	X
OLSS-1	Oil Level Safety Switch			X			X	X
OLSS-2	Oil Level Safety Switch			X			X	X
ULS-1	Ultrasonic Level Meter	X					X	X
VSS-1	Vibration Safety Switch			X			X	X
VSS-2	Vibration Safety Switch			X			X	X

Condensor Water System -

Central Plant System Enabling/Disabling:

General: There is one cooling tower with two fans with VFD's. The associated condenser pumping system consists of two (2) pumps and VFD's.

- Enable the cooling tower system any time there is a call for cooling from the associated water cooled chillers occupied/unoccupied mode of operation.
- This system enable assigns the pumps, each pump is 100% of cooling tower capacity (only one pump to run at a time). Equipment operates on equal run time basis.
- After the time delay, start the lead condenser water pump. If lead pump fails to start and flow is not proven, auto rotate and start lag pump.
- Once a condenser water pump has started and water flow has been proven, the lead cooling tower fan operates and modulates to maintain setpoint condenser water temperature. If lead cooling tower fan does not start, start lag cooling tower fan. If the lead cooling tower fan is not able to achieve setpoint condenser water temperature, the lag fan shall start so that both fans are running and both fans shall modulate to maintain setpoint condenser water temperature.

Condenser Water Temperature Control:

- Incorporate an algorithm based on ambient wetbulb temperature and cooling tower approach to modulate and maintain a leaving condenser water temperature setpoint, (adjustable). Initial default setpoint to be 75°F.
- Condenser water temperature setpoint (adjustable) to be equal to current ambient wetbulb temperature + tower approach.
- Upper limit for condenser water temperature setpoint is 85°F (adjustable).
- Lower limit for condenser water temperature setpoint is 55°F (adjustable).

Cooling Tower Bypass:

- When condenser water going back to tower(s) is 55°F or below (adjustable), the three (3) way bypass valve modulates to maintain a minimum cooling tower leaving water temperature of 55°F (adjustable), and the cooling tower fans remain off.

Cooling Tower - Sump Level Monitoring:

- The controller shall monitor the sump level through a series (2 sensors minimum)ultrasonic level transmitters supplied with stilling tubes.
- If the sump level rises above the high water level limit alarm shall be generated.
- If the sump level drops below the low water level limit an alarm shall be generated

Cooling Tower Make up water control

- Provide a new float device to replace existing
- Make up water valve shall open as required to maintain basin water level.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

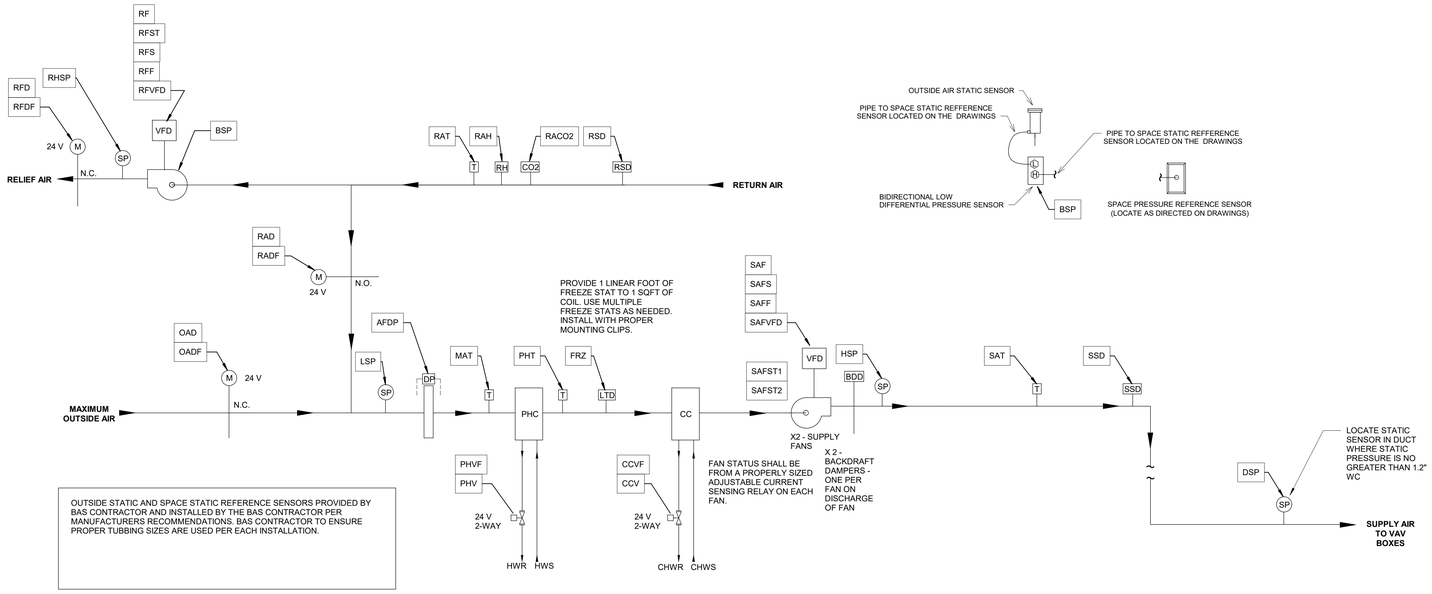
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

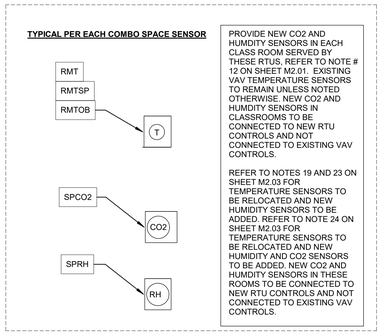
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP CONTROLS - CONDENSER WATER

Sheet Number
MEP7.03





ON 10-14-2024 PHONE CONVERSATION, I VERIFIED WITH GEORGE VANDERHEYDEN WITH DISD THAT NEW CONTROLLERS WILL NOT BE REQUIRED FOR THE VAV BOXES SERVED BY THESE RTU'S. ALSO CONFIRMED THAT EXISTING VAV'S ARE NOT MEASURING HUMIDITY OR CO2, SO HUMIDITY OR CO2 SENSORS WILL NEED TO BE ADDED IN ALL CLASSROOMS SERVED BY THESE RTU'S.

BUILDING AUTOMATION CONTRACTOR TO PROVIDE AND INSTALL SPACE PRESSURE REFERENCE SENSOR. BUILDING AUTOMATION CONTRACTOR TO INSTALL AND WIRE THE ROOM TEMP, RETURN AIR HUMIDITY, AND RETURN AIR CO2 SENSOR. SEE DRAWING M-601 FOR ROOFTOP UNIT SCHEDULE FOR ADDITIONAL INFORMATION.

PROVIDE ALL NEW CONTROLS FOR NEW VAV RTU'S, INCLUDING NEW WATER CONTROL VALVES.

Variable Air Volume Air Handling Unit (Preheat/Chilled Water/ Hot Water Reheat):
General:
- The unit is to have supply fan, hot water coil, chilled water coil and outside air damper. The Control System Contractor to provide a dedicated stand-alone DDC controller for each unit. Each DDC controller shall be located in a NEMA 1 enclosure near the unit in the corresponding mechanical room. Each DDC controller should have battery back-up sufficient to retain any controls databases or algorithm, and ensure controller uptime on a potential loss of primary power . Each DDC controller serving a AHU should have its own UPS to ensure smooth transitions to and from emergency power and allow for proper execution of programs and control.

Unit Enable/Disabling:
- The EMCS optimum start/stop schedule defines the occupied/unoccupied mode of operation.
- During unoccupied times, a minimum number of associated VAV boxes, 40% (adjustable), to request the AHU before AHU operates.

Fan Control:
- The unit operates when the associated VAV boxes it serves are in occupied mode and operational.
- The supply fan VFD is controlled by a static pressure transducer 2/3rds the way down the longest supply duct run. If the static pressure is below setpoint, the supply fan speed increases. If the static pressure is above setpoint, the supply fan speed decreases.
- Provide a static pressure reset algorithm with minimum and maximum limits of .5 inches to 1.2 inches (adjustable). VAV boxes to be polled for damper position. Static pressure slowly decreases until 25% (adjustable) of the VAV box damper positions are at least 90% open.

Temperature Control:
Warm-up or Cool-down:
- The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm.
- Upon enabling the unit, the unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
- During warm-up, the supply air discharge temperature is 90°F (adjustable). During cool-down, the supply air temperature is 55°F (adjustable).
- Once the occupied setpoint temperature threshold has been reached, the EMCS switches the unit to the occupied mode.

Occupied Mode:
- Preheat Coil: The preheat valve modulates to maintain precool discharge air temperature of 50°F (adjustable). Preheat coil disables when ambient outside air temperature is above 55°F (adjustable).
- Cooling Coil: The chilled water valve modulates to initially maintain unit discharge supply air temperature of 50°F (adjustable). Provide a linear supply air temperature reset algorithm between:
  - 50°F (adjustable) supply air temperature supply when outside air temperature is at or above 80°F (adjustable).
  - 60°F(adjustable) supply air temperature supply when outside air temperature is at or below 50°F (adjustable).

Unoccupied Mode:
- The EMCS enables the unit as required to maintain the unoccupied heating and cooling setpoints (initially 55°F heating and 85°F cooling) as sensed by the VAV box space temperature sensors. A minimum number of associated VAV boxes, 40% (adjustable), to request the AHU before AHU operates.

Outside air Damper Control:
- Warm-up or Cool-down: The outside air damper to be closed.
- Occupied Mode: EMCS monitors the CO2 level in the space:
  - TAB shall provide the damper positions required for the airflows listed below. The OA damper shall not be allowed to drop below the minimum outside air cfm listed on RTU schedule and shall not open above the ASHRAE 62.1 outside air cfm listed on the RTU schedule unless in economizer mode. The minimum OA CFM demand ventilation setpoint shall start at the minimum outside air cfm. The DDC controller shall measure the associated space and the return air CO2 levels. If any of the measured CO2 levels are greater than 1200 PPM (adj.), then increase the minimum OA CFM demand ventilation setpoint upwards toward the scheduled ASHRAE 62.1 outside air cfm in 10% increments to correct conditions. The minimum OA CFM demand ventilation setpoint increase shall be evaluated and increased in incremental steps every 15 minutes (adj.) by 10% cfm to check if conditions are corrected before another increase of minimum OA cfm is needed. If the CO2 levels are 100 ppm lower than the CO2 setpoint of 1200 ppm (adj.), then controller shall reset to the minimum OA cfm and modulate the outside air damper to the minimum OA cfm.

- Unoccupied mode:
  - The outside air damper to be closed.

Dry Bulb Economizer Mode :
- In occupied or unoccupied mode, outside air temperature is 60°F (adjustable) or below and there is a call for cooling, the unit to be in economizer mode. The controller shall measure the mixed air temperature and modulate the outside air damper and return air damper to maintain the supply air temperature setpoint. If space temperature setpoint is not meet within 10 min (adjustable) of having outside air damper 100% open, mechanical cooling to be enabled.

Dehumidification Mode:
- Dehumidification mode activates when the return air relative humidity is above 60% (adjustable) or any associated room relative humiditysensor is above 60% (adjustable).
- Dehumidification mode temporarily disables the cooling supply air temperature reset and maintains constant discharge air temperature at 47°F (adjustable). Economizer mode is disabled.
- Dehumidification disables when return air relative humidity is 2% (adjustable) below humidity setpoint.

Relief Fan Building Pressure Control:
The relief fan shall run whenever the supply fan has a positive proof of run status on the BMS, and the unit is in economizer mode.The controller shall measure associated building static pressure and modulate the relief fan VFD speed to maintain a building static pressure setpoint of + 0.03 - 0.05 in H2O (adj.). The relief fan VFD speed shall not drop below 20hz (adj.) when in operation.

Alarms shall be provided as follows:
• Relief Fan Failure: Commanded on, but the status is off.
• Relief Fan in Hand: Commanded off, but the status is on.
• Relief Fan Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.).
• Relief Fan VFD Fault.

Safeties:
- Freeze Protection:
  - When the outside air (OA) temperature drops below 36°F (adjustable), chilled water and hot water valves open to 20% if not already open. And At least one chilled water pump and one hot water pump shall run.
  - When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs.
- Freeze Stat:
  - Provide a temperature low limit switch to disable the unit and close all dampers when it senses that the air temperature is below 36°F (adjustable).
- Low Static Shutdown:
  - The unit shall shut down and generate an alarm upon receiving a low static shutdown signal. Low static safety switches shall be initially set at 3"w.c (adj.) and verified by the TAB contractor.
- High Static Shutdown:
  - The unit shall shut down and generate an alarm upon receiving a high static shutdown signal. High static safety switches shall be initially set at 4"w.c (adj.) and verified by the TAB contractor.
- Return Air Smoke Detection:
  - The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.
- Supply Air Smoke Detection:
  - The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status.
- Return and Supply Fan VFD Fault Alarm:
  - The controller shall generate an alarm upon receiving a return or supply air VFD fault alarm. The VFD fault alarm shall be a hardwired input from the VFD to a DDC controller.

Alarms :

- Supply Fans Failure: Commanded on, but the status is off.
- Supply Fans in Hand: Commanded off, but the status is on.
- Supply Fans Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.).
- High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint.
- Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
- Supply Fan VFD Fault.
- Supply Fan VFD in Bypass Alarm.
- Filter Differential Pressure Monitor: The controller shall monitor the differential pressure across the final filter. Alarms shall be provided as follows:
  - Filter Change Required: Filter differential pressure exceeds a user definable limit (adj.) as per the filter manufacturer recommendations.
- Mixed Air Temperature: The controller shall monitor the mixed air temperature and use as required for economizer control. Alarms shall be provided as follows:
  - High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.).
  - Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.).
- Return Air Carbon Dioxide (CO2) Concentration Monitoring: The controller shall measure the return air CO2 levels. Alarms shall be provided as follows:
  - High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 800ppm (adj.) when in the unit is running.
- Return Air Humidity: The controller shall monitor the return air humidity and use as required for economizer control. Alarms shall be provided as follows:
  - High Return Air Humidity: If the return air humidity is greater than 70% (adj.).
  - Low Return Air Humidity: If the return air humidity is less than 35% (adj.).
- Return Air Temperature: The controller shall monitor the return air temperature and use as required for setpoint control or economizer control. Alarms shall be provided as follows:
  - High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
  - Low Return Air Temp: If the return air temperature is less than 45°F (adj.).
- Supply Air Temperature: The controller shall monitor the supply air temperature. Alarms shall be provided as follows:
  - High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
  - Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.)

CHILLED WATER AIR HANDLING UINIT CONTROLS MULTI-ZONE

REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
AFDP	Filter Alarm			X			X	X
BSP	Building Static Pressure	X					X	X
BSP	Building Static Pressure	X					X	X
CCV	Chilled Water Valve	X					X	X
CCVF	Cooling Coil Valve Feedback	X					X	X
DSP	Static Pressure Sensor			X			X	X
FRZ	Freeze Status Alarm			X			X	X
HSP	High Static Alarm			X			X	X
LSP	Low Static Saftey			X			X	X
MAT	Mixed Air Temp	X					X	X
OAD	Outside Air Damper		X				X	X
OADF	Minimum Outside Air Damper Feedback	X					X	X
PHT	Preheat Supply Air Temperature (PreCool)	X					X	X
PHV	Hot Water Valve		X				X	X
PHVF	Preheating Valve Feedback	X					X	X
RACO2	Return Air CO2	X					X	X
RAD	Return Air Damper		X				X	X
RADF	Return Air Damper Feedback	X					X	X
RAH	Return Air Humidity	X					X	X
RAT	Return Air Temp	X					X	X
RF	Relief Air Fan Start/Stop				X		X	X
RFD	Relief Air Damper		X				X	X
RFDF	Relief Air Damper Feedback	X					X	X
RFF	Relief Air Fan VFD Fault			X			X	X
RFS	Relief Air Fan VFD Speed Command		X				X	X
RFST	Relief Air Fan Status			X			X	X
RFVFD	Variable Frequency Drive Control Integration					X	X	X
RHSP	Relief High Static Safety			X			X	X
RMT	Space/Room Temp	X					X	X
RMTSP	Space/Room Temp Local Setpoint Adjust	X					X	X
RSD	Return Air Smoke Detector			X			X	X
SAF	Fan Start/Stop Command				X		X	X
SAFF	Supply Fan VFD Fault			X			X	X
SAFS	Fan VFD Speed		X				X	X
SAFST1	Supply Air Fan 1 Amps Status	X					X	X
SAFST2	Supply Air Fan 2 Amps Status	X		X			X	X
SAFVFD	Supply Air Fan Variable Frequency Drive Control Integration					X	X	X
SAT	Unit Discharge Air temperature	X					X	X
SPCO2	Space CO2 Concentration	X					X	X
SPRH	Space Relative Humidity	X					X	X
SSD	Supply Air Smoke Detector			X			X	X
RMTOB	Space/Room Temp OCC Override Button			X			X	X

FMCS TO MONITOR AN DCONTROL ALL
POINTS AS LISTED IN THE SCHEDULE
ABOVE.

1 MULTI-ZONE CHILLED WATER VAV RTU-CHW- 4,5,6,7,8,9
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

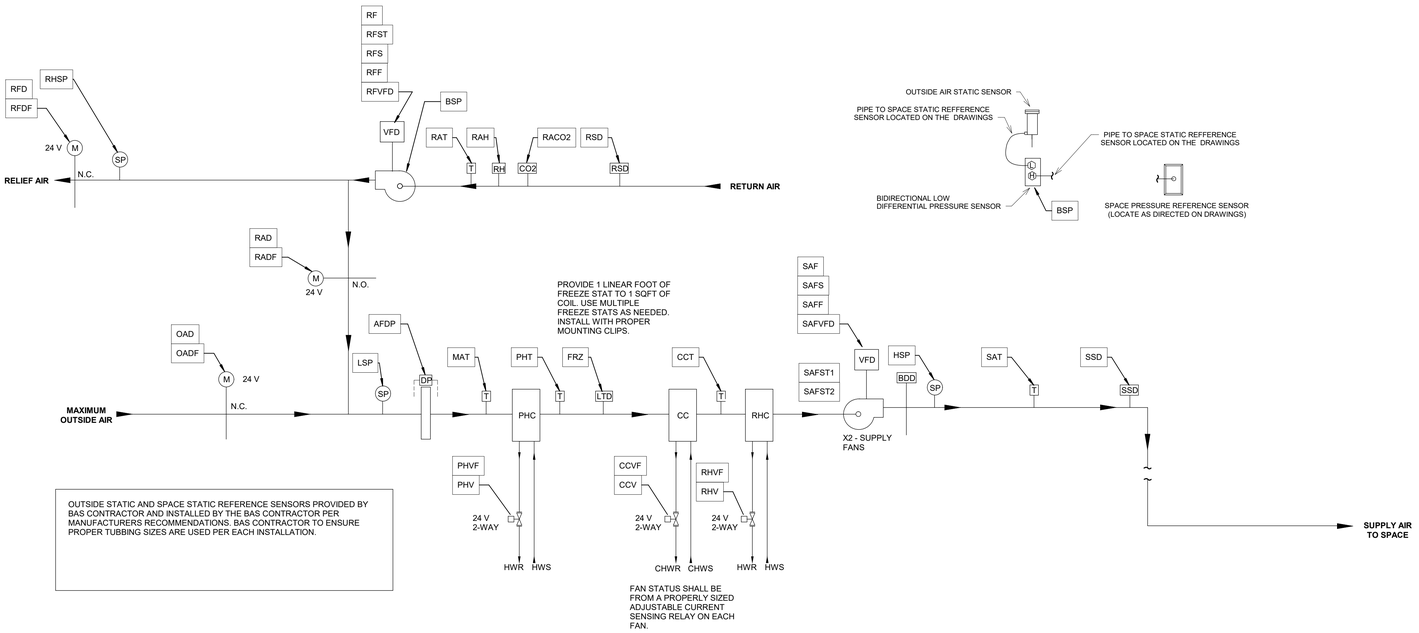
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

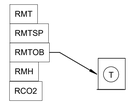
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP CONTROLS-
CHW RTU
MULTI-ZONE

Sheet Number
MEP7.04



TYPICAL PER EACH COMBO SPACE SENSOR



PROVIDE COMBO SENSOR FOR
EACH RTU, MATCH EXISTING
THERMOSTAT LOCATION

Variable Air Volume Air Handling Unit (Preheat/Chilled Water/ Hot Water Reheat):
General:
- The unit is to have supply fan, hot water coil, chilled water coil and outside air damper. The Control System Contractor to provide a dedicated stand-alone DDC controller for each unit. Each DDC controller shall be located in a NEMA 1 enclosure near the unit in the corresponding mechanical room. Each DDC controller should have battery back-up sufficient to retain any controls databases or algorithm, and ensure controller uptime on a potential loss of primary power . Each DDC controller serving a AHU should have its own UPS to ensure smooth transitions to and from emergency power and allow for proper execution of programs and control.

Unit Enable/Disabling:
- The EMCS optimum start/stop schedule defines the occupied/unoccupied mode of operation.
- RTU-CHW-1 to run anytime kitchen exhaust hood is running.

Fan Control:
- The supply fan runs continuously in occupied Mode.
- Cooling mode :Supply fan shall operate at 50% of maximum airflow (VFD speed to be determined by TAB) at start up and if cooling set point temperature can not be maintained or acheived then the fan shall operate at 100% maximum airflow.
- Heating mode :Supply fan shall operate at 50% of maximum airflow (VFD speed to be determined by TAB) at start up and if heating set point temperature can not be maintained or acheived then the fan shall operate at 100% maximum airflow.

Temperature Control:
Warm-up or Cool-down:
- The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm.
- Upon enabling the unit, the unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
- During warm-up, the supply air discharge temperature is 90°F (adjustable). During cool-down, the supply air temperature is 55°F (adjustable).
- Once the occupied setpoint temperature threshold has been reached, the EMCS switches the unit to the occupied mode.

Occupied Mode:
- ReHeating Coil: The heating valve modulates to maintain to maintain occupied mode heating space setpoint temperature. Heat coil disables when ambient outside air temperature is above 65°F (adjustable). or if unit is not in dehumidification mode. (reheat coil to be enabled if in dehumidification mode.)

- Cooling Coil: The chilled water valve modulates to maintain occupied mode cooling space setpoint temperature.
-

Unoccupied Mode:
- ReHeating Coil: The heating valve modulates to maintain to maintain unoccupied modeheating space setpoint temperature. Heat coil disables when ambient outside air temperature is above 65°F (adjustable). or if unit is not in dehumidification mode. (reheat coil to be enabled if in dehumidification mode.)
- Cooling Coil: The chilled water valve modulates to maintain unoccupied mode cooling space setpoint temperature.
-
-

Preheating Hydronic Coil Valve:
The controller shall measure the preheat temperature sensor(s) and modulate the preheating coil valve to maintain its setpoint 5°F (adj.) less than the supply air temperature setpoint.

The preheating shall be enabled whenever:
The supply fan status is on.
AND the return fan status is on.

The preheating control valve shall open for freeze protection whenever:
Mixed air temperature drops below 38°F (adj.).
OR the freezestat(s) is on.
-
Outside air Damper Control:
- Warm-up or Cool-down: The outside air damper to be closed.
- Occupied Mode: EMCS monitors the CO2 level in the space:
  - When CO2 levels are below 1100 ppm (adjustable) and supply fan is on low speed, the outside air damper to be at the minimum position (adjustable) required to obtain minimum outside air cfm with the supply fan on low speed as set by TAB. Reference scheduled CFM.
  - When CO2 levels are below 1100 ppm (adjustable) and supply fan is on hi speed, the outside air damper to be at the minimum position (adjustable) required to obtain minimum outside air cfm with the supply fan on hi speed as set by TAB. Reference scheduled CFM.
  - When CO2 levels are above 1200 ppm (adjustable) and supply fan is on low speed, the outside air damper to be at the maximum position (adjustable) required to obtain maximum outside air cfm with the supply fan on low speed as set by TAB. Reference scheduled CFM.
  - When CO2 levels are above 1200 ppm (adjustable) and supply fan is on hi speed., the outside air damper to be at the maximum position (adjustable) required to obtain maximum outside air cfm with the supply fan on hi speed as set by TAB. Reference scheduled CFM.
- Unoccupied mode:
  - The outside air damper to be closed.

Dry Bulb Economizer Mode :
- In occupied or unoccupied mode, outside air temperature is 60°F (adjustable) or below and there is a call for cooling, the unit to be in economizer mode. The controller shall measure the mixed air temperature and modulate the outside air damper and return air damper to maintain the supply air temperature setpoint. If space temperature setpoint is not meet within 10 min (adjustable) of having outside air damper 100% open, mechanical cooling to be enabled.

Dehumidification Mode:
- Dehumidification mode activates when the return air relative humidity is above 60% (adjustable) or any associated room relative humidtysensor is above 60% (adjustable).
- Dehumidification mode temporarily disables the cooling supply air temperature reset and maintains constant discharge air temperature at 47°F (adjustable). Economizer mode is disabled.
- Dehumidification disables when return air relative humidity is 2% (adjustable) below humidity setpoint.

Return Plenum Static Pressure Control:
The return fan shall run whenever the supply fan has a positive proof of run status on the BMS.The controller shall measure return plenum static pressure and modulate the return fan VFD speed to maintain a return plenum static pressure setpoint of 0.2in H2O (adj.). The return fan VFD speed shall not drop below 20hz (adj.). The TAB contractor shall confirm proper fan tracking, calibration of sensor, and the return fan pressure setpoint used to ensure the facility has a proper positive building presure around .03" to .05" w.c. positive.
Relief motorized damper shal modulate to maintain a neutral 0" w.c. pressure in relief section of unit.

Alarms shall be provided as follows:
- Return Fan Failure: Commanded on, but the status is off.
- Return Fan in Hand: Commanded off, but the status is on.
- Return Fan Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.).
- Return Fan VFD Fault

Safeties:
- Freeze Protection:
  - When the outside air (OA) temperature drops below 36°F (adjustable), chilled water and hot water valves open to 20% if not already open. And At least one chilled water pump and one hot water pump shall run.
  - When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs.
- Freeze Stat:
  - Provide a temperature low limit switch to disable the unit and close all dampers when it senses that the air temperature is below 36°F (adjustable).
- Low Static Shutdown:
  - The unit shall shut down and generate an alarm upon receiving a low static shutdown signal. Low static safety switches shall be initially set at 3"w.c (adj.) and verified by the TAB contractor.
- High Static Shutdown:
  - The unit shall shut down and generate an alarm upon receiving a high static shutdown signal. High static safety switches shall be initially set at 4"w.c (adj.) and verified by the TAB contractor.
- Return Air Smoke Detection:
  - The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.
- Supply Air Smoke Detection:
  - The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status.
- Return and Supply Fan VFD Fault Alarm:
  - The controller shall generate an alarm upon receiving a return or supply air VFD fault alarm. The VFD fault alarm shall be a hardwired input from the VFD to a DDC controller.

Alarms :
- Supply Fans Failure: Commanded on, but the status is off.
- Supply Fans in Hand: Commanded off, but the status is on.
- Supply Fans Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.).
- High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than setpoint.
- Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
- Supply Fan VFD Fault.
- Supply Fan VFD in Bypass Alarm.
- Filter Differential Pressure Monitor: The controller shall monitor the differential pressure across the final filter. Alarms shall be provided as follows:
  - Filter Change Required: Filter differential pressure exceeds a user definable limit (adj.) as per the filter manufacturer recommendations.
- Mixed Air Temperature: The controller shall monitor the mixed air temperature and use as required for economizer control. Alarms shall be provided as follows:
  - High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.).
  - Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.).
- Return Air Carbon Dioxide (CO2) Concentration Monitoring: The controller shall measure the return air CO2 levels. Alarms shall be provided as follows:
  - High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 800ppm (adj.) when in the unit is running.
- Return Air Humidity: The controller shall monitor the return air humidity and use as required for economizer control. Alarms shall be provided as follows:
  - High Return Air Humidity: If the return air humidity is greater than 70% (adj.).
  - Low Return Air Humidity: If the return air humidity is less than 35% (adj.).
- Return Air Temperature: The controller shall monitor the return air temperature and use as required for setpoint control or economizer control. Alarms shall be provided as follows:
  - High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
  - Low Return Air Temp: If the return air temperature is less than 45°F (adj.).
- Supply Air Temperature: The controller shall monitor the supply air temperature. Alarms shall be provided as follows:
  - High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
  - Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.)

1 SINGLE-ZONE CHILLED WATER RTU-CHW- 1 AND 3
NOT TO SCALE

BUILDING AUTOMATION CONTRACTOR TO PROVIDE AND INSTALL SPACE PRESSURE REFERENCE SENSOR. BUILDING AUTOMATION CONTRACTOR TO INSTALL AND WIRE THE ROOM TEMP, ROOM HUMIDITY, AND RETURN AIR CO2 SENSOR. SEE DRAWING M-601 FOR ROOFTOP UNIT SCHEDULE FOR ADDITIONAL INFORMATION.

PROVIDE ALL NEW CONTROLS FOR NEW SINGLE ZONED RTU'S, INCLUDING NEW WATER CONTROL VALVES.

CHILLED WATER AIR HANDLING UINIT CONTROLS SINGLE ZONE

REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
AFDP	Filter Alarm			X			X	X
BSP	Building Static Pressure	X					X	X
BSP	Building Static Pressure	X					X	X
CCT	Cooling Coil Air Temperature	X					X	X
CCV	Chilled Water Valve	X					X	X
CCVF	Cooling Coil Valve Feedback	X					X	X
FRZ	Freeze Status Alarm			X			X	X
HSP	High Static Alarm			X			X	X
LSP	Low Static Saftey			X			X	X
MAT	Mixed Air Temp	X					X	X
OAD	Outside Air Damper		X				X	X
OADF	Minimum Outside Air Damper Feedback	X					X	X
PHT	Preheat Supply Air Temperature (PreCool)	X					X	X
PHV	Hot Water Valve		X				X	X
PHVF	Preheating Valve Feedback	X					X	X
RACO2	Return Air CO2	X					X	X
RAD	Return Air Damper		X				X	X
RADF	Return Air Damper Feedback	X					X	X
RAH	Return Air Humidity	X					X	X
RAT	Return Air Temp	X					X	X
RCO2	Room CO2	X					X	X
RF	Retrun Air Fan Start/Stop				X		X	X
RFD	Relief Air Damper		X				X	X
RFDF	Relief Air Damper Feedback	X					X	X
RFF	Retrun Air Fan VFD Fault			X			X	X
RFS	Retrun Air Fan VFD Speed Command		X				X	X
RFST	Retrun Air Fan Status			X			X	X
RFVFD	VReturn Fan variable Frequency Drive Control Integration					X	X	X
RHSP	Relief High Static Safety			X			X	X
RHV	Reheat Hot Water Valve		X				X	X
RHVF	Reheating Valve Feedback	X					X	X
RMH	Space/Room humidity	X					X	X
RMT	Space/Room Temp	X					X	X
RMTSP	Space/Room Temp Local Setpoint Adjust	X					X	X
RSD	Return Air Smoke Detector			X			X	X
SAF	Fan Start/Stop Command				X		X	X
SAFF	Supply Fan VFD Fault			X			X	X
SAFS	Fan VFD Speed		X				X	X
SAFST1	Supply Air Fan 1 Amps Status	X					X	X
SAFST2	Supply Air Fan 2 Amps Status	X		X			X	X
SAFVFD	Supply Air Fan Variable Frequency Drive Control Integration					X	X	X
SAT	Unit Discharge Air temperature	X					X	X
SSD	Supply Air Smoke Detector			X			X	X
RMTOB	Space/Room Temp OCC Override Button			X			X	X

FMCS TO MONITOR AN DCONTROL ALL
POINTS AS LISTED IN THE SCHEDULE
ABOVE.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

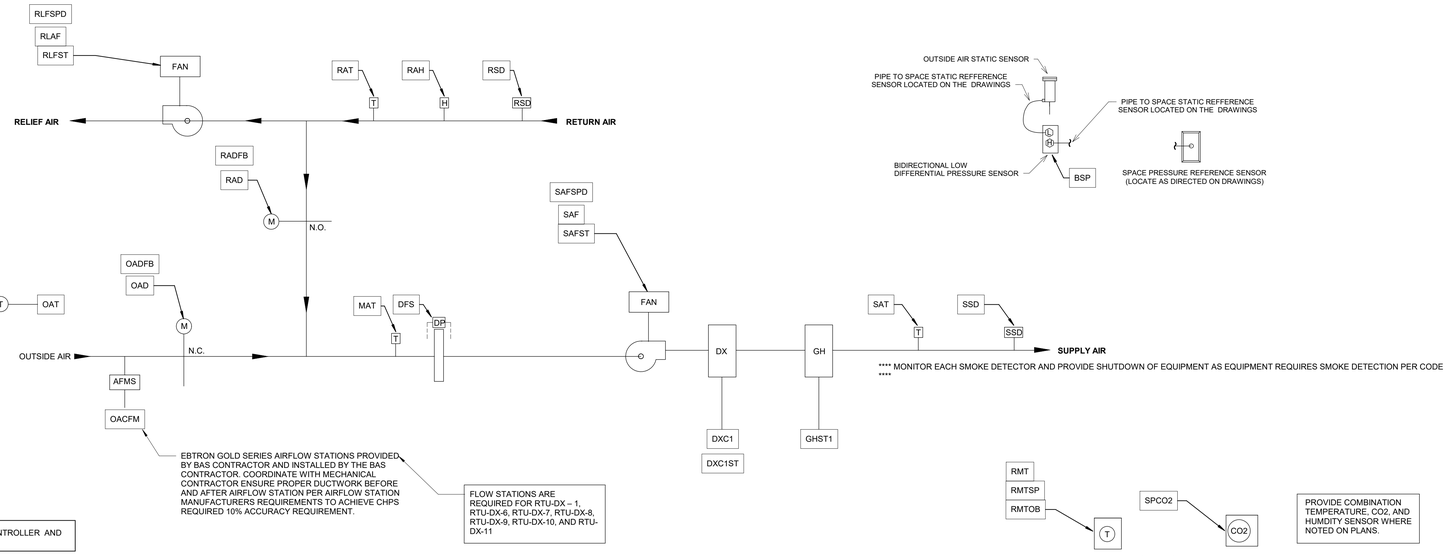
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP-CONTROLS-CHW
RTU SINGLE-ZONE

Sheet Number
MEP7.05



CONTROLS CONTRACTOR TO PROVIDE DDC RTU CONTROLLER AND TIE INTO THE RTU TERMINAL STRIP.

Single Zone DX RTU:
General:
- System consists of a direct expansion (DX) cooling section, heating section, supply fan section and an outside air damper.
- Temperature sensors for DX single zone RTU serving a classroom to have a blank face with occupancy override button.
- Temperature sensors for DX RTU serving areas such as Administration, Gymnasiums, Auditoriums, Cafeterias, Kitchens, Choir, Dance and Band to have LCD screen with occupancy override and setpoint adjustment. These sensors to have tamper proof protective covers.

Unit Enabling/Disabling:
- The ENCS optimum start/stop schedule defines the occupied/unoccupied mode of operation.
- During unoccupied times, as required to maintain the unoccupied heating and cooling setpoints 55°F (adjustable) heating and 85°F (adjustable) cooling as sensed by the space temperature sensor.
- When the override pushbutton is depressed, the unit indexes to the occupied mode for an adjustable period of time (initially 1 hour). After the override time period has expired, the unit reverts back to the unoccupied mode.

Fan Control:
- The units internal controller control the fan speed. If unit requires fan speed to be controlled by external source, Contractor to provide everything necessary to achieve fan control as noted below.
  - Fan runs in low speed during first stage heating or cooling as set by TAB.
  - Fan runs in high speed during second stage heating or cooling as set by TAB.

Outside Air Damper Control:
- Warm-up or Cool-down: The outside air damper to be closed.
- Occupied Mode: EMCS monitors the CO2 level in the space:
  - When CO2 levels are below 1100 ppm (adjustable) and supply fan is on low speed, the outside air damper to be at the minimum position (adjustable) required to obtain minimum outside air cfm with the supply fan on low speed as set by TAB. Reference scheduled CFM.
  - When CO2 levels are below 1100 ppm (adjustable) and supply fan is on hi speed, the outside air damper to be at the minimum position (adjustable) required to obtain minimum outside air cfm with the supply fan on hi speed as set by TAB. Reference scheduled CFM.
  - When CO2 levels are above 1200 ppm (adjustable) and supply fan is on low speed, the outside air damper to be at the maximum position (adjustable) required to obtain maximum outside air cfm with the supply fan on low speed as set by TAB. Reference scheduled CFM.
  - When CO2 levels are above 1200 ppm (adjustable) and supply fan is on hi speed, the outside air damper to be at the maximum position (adjustable) required to obtain maximum outside air cfm with the supply fan on hi speed as set by TAB. Reference scheduled CFM.

Unoccupied Mode: The outside air damper to be closed.
Temperature Control:
- Warm-up or Cool-down:
  - The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm.
  - Upon enabling the unit, the unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
  - Once the occupied setpoint temperature has been reached, the EMCS switches the unit to the occupied mode.
- Occupied Mode:
  - Space set point to be user adjustable within ±2°F (adjustable).
  - In the occupied mode of operation, the unit supply fan cycles with a call for heating or cooling.
  - The unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
  - When space temperature rises above occupied cooling setpoint, the DDC controller energizes the first stage of mechanical cooling. When space temperature continues to rise 2°F (adjustable) above occupied cooling setpoint, the DDC controller energizes the second stage of mechanical cooling.
    - First Stage Cooling: Low speed supply CFM and first stage of compressor(s).
    - Second Stage Cooling: High speed supply CFM and second stage of compressor(s).
    - Unit runs in second stage cooling until space temperature drops to occupied space cooling setpoint. Unit then runs in first stage of cooling until space temperature drops 1°F (adjustable) below space temperature setpoint and then cycles off.
  - When space temperature drops below occupied heating setpoint, the DDC controller energizes the first stage of heating. When space temperature continues to drop 2°F (adjustable) below occupied heating setpoint, the DDC controller energizes the second stage of heating.
    - First Stage Heating: Low speed supply CFM and first stage of heating.
    - Second Stage Heating: High speed supply CFM and second stage of heating.
    - Unit runs in second stage heating until space temperature rises to occupied space heating setpoint. Unit then runs in first stage heating until space temperature rises 1°F (adjustable) above space temperature setpoint and then cycles off.
- Unoccupied Mode:
  - The EMCS enables the unit as required to maintain the unoccupied heating and cooling setpoints (initially 55°F heating and 85°F cooling) as sensed by the space temperature sensor.
  - When override button is pushed, the unit indexes to occupied mode for one (1) hour (adjustable). After the override time has expired, the unit reverts to unoccupied mode.

Dry Bulb Economizer Mode :
- In occupied or unoccupied mode, when space temperature is above space setpoint, outside air temperature is 60°F (adjustable) or below and there is a call for cooling, the unit be in economizer mode. The controller shall measure the mixed air temperature and modulate the outside air damper and return air damper to maintain the supply air temperature setpoint. If space temperature setpoint is not meet within 10 min (adjustable) of having outside air damper 100% open, mechanical cooling to be enabled.
- Units equipped with a powered exhaust fan, the fan enables any time the unit is in economizer mode. Modulate relief fan to maintain building static pressure. Provide a building static pressure sensor so EMCS can monitor indoor and outdoor pressure for building static control.
- The EMCS Contractor to provide and control all sensors necessary for economizer mode operation and FDD.

Fault Detection and Diagnostics (FDD) :
- Each DX rooftop unit to have its economizer status monitored by the EMCS. The unit's fault detection and diagnostics to be capable of generating a visible alarm to be seen by the EMCS should the unit be in economizer when conditions are not met, or vice versa.

Dehumidification Mode:
- Dehumidification mode activates when the room air relative humidity is above 60% (adjustable).
- Dehumidification mode temporarily disables the cooling supply air temperature reset and maintains constant discharge air temperature at 47°F (adjustable). Economizer mode is disabled.
- Dehumidification disables when room air relative humidity is 2% (adjustable) below humidity setpoint.
- Hot gas reheat shall be enabled if room temperature is below room set point temperature.

Alarms
- For RTU's with air flow measurement station, An alarm must indicate when the outdoor airflow value varies by 15% or more from the outdoor airflow setpoint.
- For rooms with CO2 sensors, provide a visual alarm to alert the building automation system when the CO2 concentration is more than 10% above the setpoint.

SINGLE ZONE DX RTU with GAS HEAT SCHEDULE

Reference	Point Name	AI	AO	BI	BO	INT	TREND	SHOW ON GRAPHIC
BSP	Building Static Pressure	X					X	X
DXC1	Compressor Cooling Command (Each Stage)				X		X	X
DXC1ST	Compressor Amps/Status (Each Compressor) Dx Compressor Command	X					X	X
GHST1	Heating Command (Each Stage)				X		X	X
MAT	Mixed Air Temperature	X					X	X
OACFM	Outside Air Flow Measurement	X					X	X
OAD	Outside Air Damper		X				X	X
OADFB	Outside Air Damper Feedback	X					X	X
OAT	Outside Air Temp	X					X	X
RAD	Return Air Damper		X				X	X
RADFB	Return Air Damper Feedback	X					X	X
RAH	Return Air Humidity	X					X	X
RAT	Return Air Temp	X					X	X
RLAF	Releif Fan Start/Stop Command (Each Fan)				X		X	X
RLFSPD	Releif Fan Fan Speed (Only If Required by Unit)		X				X	X
RLFST	Releif Fan Amps/Status	X					X	X
RMT	Space Temperature	X					X	X
RMTSP	Space/Room Temp Local Setpoint Adjust	X					X	X
RSD	Return Air Smoke Detector			X			X	X
SAF	Fan Start/Stop Command (Each Fan)				X		X	X
SAFSPD	Fan Speed (Only If Required by Unit)		X				X	X
SAFST	Supply Fan Amps/Status	X					X	X
SAT	Supply Air Temp	X					X	X
SPCO2	Space CO2 Concentration	X					X	X
SPRH	Space Relative Humidity	X					X	X
DFS	Dirty Filter Switch Alarm			X			X	X
RMTOB	Space/Room Temp OCC Override Button			X			X	X
SSD	Smoke Detector			X			X	X

PLACS TO MOUNT SPACE SENSORS POINTS AS LISTED IN THE SCHEDULE ABOVE.

FLOW STATIONS ARE REQUIRED FOR RTU-DX – 1, RTU-DX-6, RTU-DX-7, RTU-DX-8, RTU-DX-9, RTU-DX-10, AND RTU-DX-11

3 SINGLE ZONE DX RTU WITH GAS HEAT CONTROLS RTU-DX -1,4,6,7,8,9,10, AND 11
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

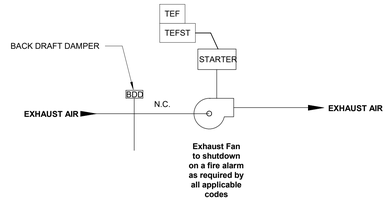
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP CONTROLS-DX RTU SINGLE ZONE

Sheet Number
MEP7.06

CITY OF DALLAS STAMP

TOILET EXHAUST FANS SERVING MULTIPLE RESTROOMS								
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
TEF	TOILET EXHAUST FAN AMPS/STATUS (EACH FAN)	X					X	X
TEFST	TOILET EXHAUST FAN START/STOP COMMAND (EACH FAN)				X		X	X



1 EXHAUST FAN CONTROLS FOR NEW EXHAUST FANS SERVING MULTIPLE RESTROOMS
NOT TO SCALE

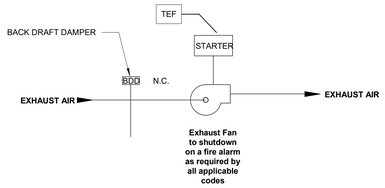
TOILET EXHAUST FANS SERVING MULTIPLE RESTROOMS

EXHAUST FANS SERVING RESTROOMS WITH MULTIPLE STALLS SHALL BE STARTED AND STOPPED AT THE BAS VIA A BUILDING OCCUPANCY SCHEDULE.

EXHAUST AIR FAN SHALL SHUT DOWN ON A FIRE OR SMOKE ALARM EVENT AS DETERMINED BY ALL APPLICABLE CODES BY THE FIRE ALARM CONTRACTOR.
BAS ALARMS
EXHAUST FAN FAILURE -COMMANDED ON AND THE STATUS IS OFF.

CONTROLS FOR LAUNDRY EXHAUST FAN LEF-1 TO BE SAME AS CONTROLS FOR TOILET EXHAUST FAN SERVING MULTIPLE RESTROOMS.

TOILET EXHAUST FANS SERVING ONE SINGLE STALL RESTROOM								
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
TEF	TOILET EXHAUST FAN AMPS/STATUS (EACH FAN)	X					X	X



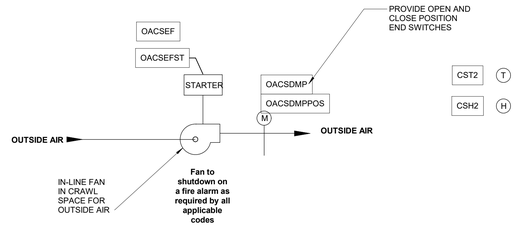
2 NEW TOILET EXHAUST FANS SERVING ONE SINGLE STALL RESTROOM
NOT TO SCALE

TOILET EXHAUST FANS SERVING ONE SINGLE STALL RESTROOM

FOR EXHAUST FANS SERVING ONE SINGLE STALL RESTROOM, FOR EACH FAN, ELECTRICAL CONTRACTOR TO PROVIDE THE FOLLOWING : A POWER PACK (THAT IS COMBINATION 120 V TO 24 V TRANSFORMER AND A CONTACTOR) AND AN OCCUPANCY SENSOR THAT IS IN ADDDITION TO LIGHTING OCCUPANCY SENSOR. ELECTRICAL CONTRACTOR TO PROVIDE WIRING TO CONNECT POWER PACK, OCCUPANCY SENSOR AND FAN SO THAT THE OCCUPANCY SENSOR CONTROLS FAN ON/OFF (FAN TO RUN IF RESTROOM IS OCCUPIED AND TO SHUT OFF IF RESTROOMS IS UNOCCUPIED)

EXHAUST AIR FAN SHALL SHUT DOWN ON A FIRE OR SMOKE ALARM EVENT AS DETERMINED BY ALL APPLICABLE CODES BY THE FIRE ALARM CONTRACTOR.

CRAWL SPACE FANS2								
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
CSH2	CRAWL SPACE HUMIDITY	X					X	X
CST2	CRAWL SPACE TEMPERATURE	X					X	X
OACSDMP	CRAWL SPACE DAMPER MOTOR COMAND (EACH DAMPER)				X		X	X
OACSDMPPOS	CRAWL SPACE DAMPER MOTOR POSITION (EACH DAMPER)			X			X	X
OACSEF	CRAWL SPACE EXHAUST FAN AMPS/STATUS (EACH FAN)	X					X	X
OACSEFST	CRAWL SPACE EXHAUST FAN START/STOP COMMAND (EACH FAN)				X		X	X



3 NEW CEF CRAWL SPACE EXHAUST FAN CONTROLS
NOT TO SCALE

Crawl Space Inline Exhaust Fans

The FMCS to measure crawlspace temperature and humidity, temperature sensor and humidity sensor to be located in crawl space addition and temperature sensor and humidity sensor to be located in existng crawl space in area close to crawl space addition. Calculations are to be done to determine dewpoint of crawlspace and ambient dewpoint. The crawlspace fans are to operate continuously when the crawlspace dewpoint in crawl space addition or existing crawl space is above 60° F (adjustable) and above ambient dewpoint. Associated motorized dampers, for those fans that have motorized dampers, shall open when fans are on and shall close if fans are off. OA crawl space fan not ot run until damper comfirmed open. Crawl space fans shall not run if crawl space temperature is below 35 deg. F. The exhaust air fan shall shut down on a fire alarm event as required by all applicable codes.

Alarms shall be provided as follows:
Exhaust Fan Failure: Commanded on, but the status is off.
Exhaust Fan in Hand: Commanded off, but the status is on.
High Humidity : Dew point greater than 60 deg. F. (adj.)
Exhaust Fan Failure: Commanded on, but the status is off.
Damper Failure: Commanded on, but the status is closed after a time delay matching actuator stroke time.
Damper Failure: Commanded closed, but the status is open after a time delay matching actuator spring return time.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

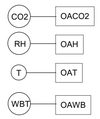
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP
CONTROLS-FANS

Sheet Number
MEP7.07

OUTSIDE AIR CONDITIONS



(LOCATE SENSORS WITH APPROPRIATE SUN SHIELDS PER MANUFACTURER'S RECOMENDATIONS)

AMBIENT CONDITIONS

REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
OACO2	Outside Air CO2	X					X	X
OAH	Outside Air Humidity	X					X	X
OAT	Oustide Air Temp	X					X	X
OAWB	Outside Air Wetbulb	X					X	X

THE FMCS MONITORS THE AMBIENT OUTSIDE CONDITIONS AT THE BUILDING. SENSORS TO BE LOCATED OUTSIDE THE BUILDING FOR NORTHERN EXPOSURE.

4 AMBIENT CONDITIONS
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

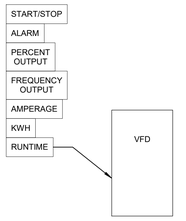
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP
CONTROLS-MISC.

Sheet Number
MEP7.08



(TYPICAL OF EACH)

VFD								
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
ALARM	ALARM (EACH VFD)			X		X	X	X
AMPERAGE	AMPERAGE (EACH VFD)			X		X	X	X
FREQUENCY OUTPUT	FREQUENCY OUTPUT (EACH VFD)	X				X	X	X
KWH	KWH (EACH VFD)	X				X	X	X
PERCENT OUTPUT	PERCENT OUTPUT (EACH VFD)	X				X	X	X
RUNTIME	RUNTIME (EACH VFD)	X				X	X	X
START/STOP	START/STOP (EACH VFD)	X				X	X	X

THE FMCS TO INTERFACE AND MONITOR POINTS FROM THE VFDS.
ACHIEVE INTERFACES VIA COMMUNICATION LINK.
SHOW DATA ON ASSOCIATED UNITARY GRAPHIC.
PROVIDE DASHBOARD WITH DAILY, WEEKLY, MONTHLY, AND YEARLY USAGE TOTALS FOR KWH AND RUNTIME.

1 VARIABLE FREQUENCY DRIVES
NOT TO SCALE

(TYPICAL OF EACH)

IDF AND MDF ROOMS								
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
IDF	IDF SPACE TEMPERATURE (EACH IDF ROOM)	X				X	X	X
MDF	MDF SPACE TEMPERATURE (EACH MDF ROOM)	X				X	X	X

UNITS TO HAVE A STANDALONE THERMOSTAT. UNITS TO OPERATE CONTINUOUSLY.
FMCS TO MONITOR SPACE TEMPERATURE FOR ALL MDF/IDF ROOMS. THE FMCS GENERATES AN ALARM IF THE SPACE TEMPERATURE EXCEEDS 80 G. DEG. F. (ADJ) OR DROPS BELOW 65 G. DEG. F. (ADJ).

2 IDF AND MDF ROOMS
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

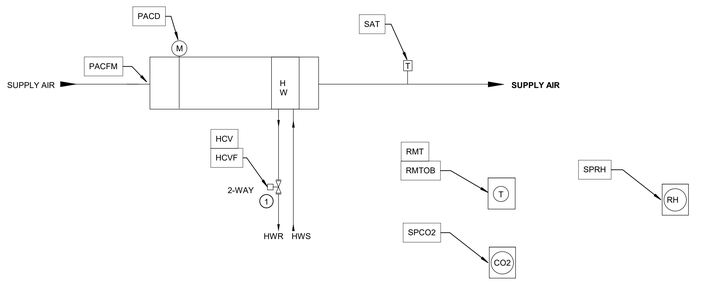
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP CONTROLS-VFD'S AND IDF/MDF ROOMS
Sheet Number
MEP7.09



PROVIDE COMBINATION TEMPERATURE, CO2, AND HUMIDITY SENSOR WHERE NOTED ON PLANS.

KEYED NOTES - MEP07-04A

1 BAS CONTRACTOR TO PROVIDE A PROPERLY SIZED BELIMO PRESSURE INDEPENDENT 2-WAY CONTROL VALVE. BAS CONTRACTOR TO WIRE THE VALVE TO THE VAV TERMINAL UNIT CONTROLLER. MECHANICAL CONTRACTOR TO INSTALL VALVE PER MANUFACTURERS INSTALLATION GUIDELINES AND REQUIREMENTS.

**** LOCATE AND INSTALL CO2 SENSORS AS NEEDED AND INDICATED ON THE CONTRACT DOCUMENTS ****

VAV Terminal Unit with Hot Water Reheat:
General:
- The variable air volume (VAV) terminal unit with hot water reheat to serve intended spaces. The Control System Contractor is to provide a dedicated stand-alone DDC controller for each unit.

Unit Enabling/Disabling:
- The EMCS schedule defines the occupied/unoccupied mode of operation.
- During unoccupied times, as required to maintain the unoccupied heating and cooling setpoints 55°F (adjustable) heating and 85°F (adjustable) cooling as sensed by the space temperature sensor.

Temperature Control:
- Warm-up or Cool-down:
  - The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm.
  - Upon enabling the unit, the unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
  - During warm-up, the VAV box modulates to max heating CFM and the hot water valve closes. Once the occupied setpoint temperature threshold has been reached, the EMCS switches the VAV box to the occupied mode.
  - During cool-down, the VAV box modulates to max cooling CFM and the hot water valve closes. Once the occupied setpoint temperature threshold has been reached, the EMCS switches the VAV box to the occupied mode.
- Occupied Mode:
  - The unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
  - On a rise in space temperature, the unit modulates to provide max cooling CFM. As space temperature decreases, the box modulates down to its minimum cooling CFM. As the space temperature continues to fall to below the spaces heating set point, the VAV terminal modulates its heating minimum heating CFM. At this point, the hot water valve modulates to maintain heating leaving air temperature setpoint of 90°F (adjustable). The VAV box modulates CFM to maintain space temperature setpoint.
  - The unit enters heating mode only if outside air temperature is below 60° F (adjustable).
- Unoccupied Mode:
  - The VAV box to modulate CFM and hot water valve as needed to maintain unoccupied space temperature setpoints.

BAS ALARMS

- HIGH SPACE TEMP - GREATER THAN THE CURRENT SPACE SETPOINT BY 2°F (ADJ.).
- LOW SPACE TEMP - LESS THAN THE CURRENT SPACE SETPOINT BY 2°F (ADJ.).
- HIGH VAVH DISCHARGE AIR TEMP - 5°F (ADJ.) ABOVE THE ESTABLISHED VAVH DISCHARGE AIR TEMPERATURE LIMIT.
- VAVH OCCUPANCY SENSOR FAILURE – VAVH DOES NOT ENTER DAY UNOCCUPIED MODE AT LEAST ONCE IN A 24 HOUR PERIOD.
- LOW VAVH SUPPLY AIR CFM - SUPPLY AIR CFM 10% (ADJ.) BELOW THE CURRENT AIRFLOW SETPOINT AFTER A 2 MINUTE (ADJ.) TIME DELAY.
- HIGH VAVH SUPPLY AIR CFM - SUPPLY AIR CFM 10% (ADJ.) ABOVE THE CURRENT AIRFLOW SETPOINT AFTER A 2 MINUTE (ADJ.) TIME DELAY.

VAV Box with HW Reheat (Typical of Each)								
Reference	Point Name	AI	AO	BI	BO	INT	TREND	SHOW ON GRAPHIC
HCV	Heating Coil Valve		X				X	X
HCVF	Heating Coil Valve Feedback	X					X	X
PACD	Primary Air Control Damper		X				X	X
PACFM	Primary Air CFM	X					X	X
RMT	Space/Room Temp	X					X	X
SAT	Space/Room Temp	X					X	X
SPCO2	Space CO2	X					X	X
SPRH	Space Relative Humidity	X					X	X
RMTOB	Space/Room Temp OCC Override Button			X			X	X

1 NEW VAV BOX WITH HW REHEAT CONTROLS (TYPICAL OF EACH)
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 9000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
MEP CONTROLS - VAV

Sheet Number
MEP7.10

ELECTRICAL SYMBOLS LEGEND

RECEPTACLES:

	SPECIAL RECEPTACLE AS NOTED
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	DUPLEX RECEPTACLE ABOVE COUNTER
	QUADRUPLEX RECEPTACLE ABOVE COUNTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
GFI/WP	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE IN WEATHER-PROOF ENCLOSURE WITH WHILE-IN-USE COVER
AFCI	ARC FAULT CIRCUIT INTERRUPTER RECEPTACLE
USB	DUPLEX RECEPTACLE WITH 2 USB PORTS
	HALF SWITCHED DUPLEX RECEPTACLE
	HALF SWITCHED QUADRUPLEX RECEPTACLE
	FULLY SWITCHED DUPLEX RECEPTACLE
	FULLY SWITCHED QUADRUPLEX RECEPTACLE
IG	ISOLATED GROUND DUPLEX RECEPTACLE
IG	ISOLATED GROUND QUADRUPLEX RECEPTACLE. REFER TO THE CIRCUIT TAGS ON THE FLOOR PLANS FOR ADDITIONAL INFORMATION. ONLY HALF OR ALL OF THE RECEPTACLE MAY BE ISOLATED GROUND.
	CEILING MOUNTED SIMPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	CEILING MOUNTED QUADRUPLEX RECEPTACLE
	MULTI OUTLET ASSEMBLY • BASIS OF DESIGN: LEGRAND ___ SERIES • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"

POWER:

J	CEILING MOUNTED JUNCTION BOX
J	WALL JUNCTION BOX
SM	SINGLE PHASE MANUAL MOTOR STARTER UP TO 1 HP
	MOTOR
V/W/X/Y/Z	COMBINATION MAGNETIC STARTER AND FUSED SWITCH V - SWITCH AMPERAGE RATING W - NUMBER OF POLES X - FUSE SIZE Y - NEMA RATING IF OTHER THAN NEMA 1 Z - STARTER SIZE EXAMPLE: 100/3/60/3R/3
VFD	VARIABLE FREQUENCY DRIVE (VFD)
V/W/X/Y	FUSED HEAVY DUTY DISCONNECT SWITCH V - SWITCH AMPERAGE RATING W - NUMBER OF POLES X - FUSE SIZE OR NON-FUSED (NF) Y - NEMA RATING IF OTHER THAN NEMA 1 EXAMPLE: 100/3/80/3R
M M	METER
	GROUND BAR
	TRANSFORMER - PLAN VIEW SOLID LINES INDICATE EQUIPMENT AND DASHED LINES INDICATE REQUIRED CLEARANCES.
	ELECTRICAL PANEL OR DISTRIBUTION BOARD - PLAN VIEW SOLID LINES INDICATE EQUIPMENT AND DASHED LINES INDICATE REQUIRED CLEARANCES.
	AUTOMATIC TRANSFER SWITCH - ON ONE-LINE OR RISER DIAGRAM ONLY
	GROUND - ON ONE-LINE OR RISER DIAGRAM ONLY
	DELTA-WYE TRANSFORMER - ON ONE-LINE OR RISER DIAGRAM ONLY
	STANDARD TRANSFORMER - ON ONE-LINE OR RISER DIAGRAM ONLY
	CIRCUIT BREAKER - ON ONE-LINE OR RISER DIAGRAM ONLY
	FUSE - ON ONE-LINE OR RISER DIAGRAM ONLY
SPD	SURGE PROTECTIVE DEVICE (SPD)

AUDIOVISUAL / DATA / IT:

TV	TV OUTLET REFER TO FLOOR PLAN NOTES ABOUT CEILING, WALL OR FLOOR MOUNTING.
CR	CARD READER
DC	DOOR CONTACT
ML	MAGNETIC LOCK
EPO	EMERGENCY POWER OFF PUSHBUTTON
	DATA / COMMUNICATION ROUGH-IN
	CEILING MOUNTED JUNCTION BOX
J	WALL JUNCTION BOX
	CAMERA

TEXT LABELS:

E / e	INDICATES EXISTING ITEM TO REMAIN
ER / er	INDICATES EXISTING ITEM TO BE RELOCATED
ED / ed	INDICATES EXISTING ITEM TO BE REMOVED
N	"N", BOLD AND/OR BLANK/NOTHING - INDICATES NEW, BY CONTRACTOR
D	INDICATES RECEPTACLE SHALL BE ON DEDICATED CIRCUIT. IF CIRCUITING IS NOT YET INDICATED. RECEPTACLE MAY STILL BE DEDICATED WITHOUT "D" ANNOTATION IF IT IS SHOWN AS THE ONLY DEVICE ON A INDICATED CIRCUIT.
H-1,3,5	ONE (1) THREE-POLE CIRCUIT
L-1	ONE (1) SINGE-POLE CIRCUIT
L-1	UNDERLINE OF CIRCUIT NUMBER INDICATES ISOLATED GROUND CIRCUIT
	CONTINUATION
+XX"	INDICATES HEIGHT ABOVE FINISHED FLOOR ALL OUTLETS ARE 18" A.F.F. UNLESS NOTED OTHERWISE

CONDUIT:

	CONDUIT
	CONDUIT IN OR UNDER FLOOR
	HOMERUN TO PANEL
	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN

FLOOR DEVICES:

	FLUSH FLOOR POKE-THRU WITH DUPLEX POWER • BASIS OF DESIGN: LEGRAND 4AT SERIES • POWER CONDUIT: (1) 3/4"
	FLUSH FLOOR POKE-THRU WITH DUPLEX POWERPLUS COMMUNICATIONS • BASIS OF DESIGN: LEGRAND 4AT SERIES • POWER CONDUIT: (1) 3/4" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR POKE-THRU WITH DUPLEX POWER PLUS COMMUNICATIONS AND AV • BASIS OF DESIGN: LEGRAND 6AT SERIES • POWER CONDUIT: (1) 3/4" • DATA & AV CONDUIT: (1) 1-1/4"
	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER • BASIS OF DESIGN: LEGRAND 4AT SERIES • POWER CONDUIT: (1) 3/4"
	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS • BASIS OF DESIGN: LEGRAND 6AT SERIES • POWER CONDUIT: (1) 3/4" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS AND AV • BASIS OF DESIGN: LEGRAND 8AT SERIES • POWER CONDUIT: (1) 3/4" • DATA & AV CONDUIT: (1) 1-1/4"
	FLUSH FLOOR DUPLEX IN 'POURED IN PLACE' BOX. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB4SS-OG SERIES • POWER CONDUIT: (1)1"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB4SS-OG SERIES • POWER CONDUIT: (1)1" • DATA CONDUIT: (1) 1-1/4"
AV	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB4SS-OG SERIES • POWER CONDUIT: (1)1" • DATA & AV CONDUIT: (1) 1-1/4"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX, BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB4SS-OG SERIES • POWER CONDUIT: (1)1"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB4SS-OG SERIES • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"
AV	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB4SS-OG SERIES • POWER CONDUIT: (1)1" • DATA & AV CONDUIT: (1) 1-1/4"

POWERED FURNITURE:

FF	FURNITURE FEED FLUSH FLOOR POKE-THRU DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND 4FFATC15 SERIES • POWER CONDUIT: (1)3/4" • DATA CONDUIT: (1)1-1/4"
FF	FURNITURE FEED FLUSH FLOOR 'POURED IN PLACE' BOX DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND RFB2E-OG SERIES BOX WITH 6CFFTC COVER • POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"
P D	WALL MOUNTED DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: (2) J-BOXES WITH FACEPLATES • POWER CONDUIT: (1)3/4" • DATA CONDUIT: (1)1-1/4"
PP	POWER POLE DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE.

LEGEND NOTES:

1. NOT ALL SYMBOLS MAY BE USED IN PLANS.
2. DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND ELECTRICAL SCHEDULES FOR ACTUAL SIZES.
3. IF ONLY THE ELECTRICAL OR LIGHTING SYMBOLS LEGEND IS PRESENT ON THIS SHEET, REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOR ADDITIONAL SYMBOLS.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
5. REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS.
6. FLOOR DEVICE AND POWERED FURNITURE NOTES:
   A. REFER TO SYMBOLS ON THE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS FOR DEVICES (IG, USB, ETC).
   B. A/V AND DATA CONDUITS SHALL BE ROUTED TO ABOVE THE NEAREST ACCESSIBLE CEILING OR TO THE NEAREST IDF/ MDF/ IT ROOM.
   C. COORDINATE ALL LOW VOLTAGE CONDUIT REQUIREMENTS WITH TECHNOLOGY DRAWINGS AND TECHNOLOGY CONSULTANT.
   D. FOR FURNITURE FEEDS, COORDINATE WIRING CONFIGURATION WITH FURNITURE CONSULTANT (3+1 OR 2+2) PRIOR TO ORDER. CONFIGURATION SHOWN ON THESE DRAWINGS IS FOR PLACEHOLDER ONLY.
   E. REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS. CONTRACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BASE BID TO BE SELECTED BY THE ARCHITECT.
   F. SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING: LEGRAND, HUBBELL, FSR INC, LEVITON.
7. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

LIGHTING SYMBOLS LEGEND

LIGHTING CONTROLS:

DS	DAYLIGHT SENSOR
	DAYLIGHT ZONE
VS DS	WALL MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED SENSOR SPACING. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY VACANCY SENSORS. THE ACTUAL NUMBER OF SENSORS AND PLACEMENT IN EACH ROOM SHALL BE BY THE SENSOR MANUFACTURER'S RECOMMENDATIONS. THIS SENSOR SHALL BE CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	CEILING MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED SENSOR SPACING. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY VACANCY SENSORS. THE ACTUAL NUMBER OF SENSORS AND PLACEMENT IN EACH ROOM SHALL BE BY THE SENSOR MANUFACTURER'S RECOMMENDATIONS. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	VACANCY OR OCCUPANCY SENSOR ZONE
$	SINGLE POLE SWITCH
$LV	LOW VOLTAGE SWITCH
$VS $OS	VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
D	DIMMING LINE VOLTAGE SWITCH
DLV	DIMMING LOW VOLTAGE SWITCH
DVS DOS	DIMMING VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
K	KEYPAD STATION (MULTIPLE BUTTONS OR TOUCH SCREEN). REFER TO LIGHTING CONTROLS PLANS AND NARRATIVE FOR MORE INFORMATION.
$K	KEY OPERATED SWITCH
$4	FOUR WAY SWITCH
$3	THREE WAY SWITCH
$DR	DOOR SWITCH
$P	PILOT SWITCH
$T	TIMER SWITCH

LIGHTING:

EM	INDICATES FIXTURE SHALL BE AN EMERGENCY
NL	INDICATES FIXTURE SHALL BE NIGHT LIGHT AND SHALL NOT BE SWITCHED
	SINGLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
	DOUBLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
XX HA-XX	CAPITAL LETTERS - LIGHT FIXTURE TYPE DESIGNATION LOWER CASE LETTERS - SWITCH DESIGNATION PANEL & CIRCUIT DESIGNATION

LEGEND NOTES:

1. NOT ALL SYMBOLS MAY BE USED IN PLANS.
2. DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND ELECTRICAL SCHEDULES FOR ACTUAL SIZES.
3. IF ONLY THE ELECTRICAL OR LIGHTING SYMBOLS LEGEND IS PRESENT ON THIS SHEET, REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOR ADDITIONAL SYMBOLS.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

ELECTRICAL APPLICABLE CODES

- 2020 NATIONAL ELECTRIC CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- CURRENT DISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

FIRE ALARM APPLICABLE CODES

- FM GLOBAL
- 2021 INTERNATIONAL FIRE CODE (IFC)
- NATIONAL FIRE PROTECTION AGENCY CODES (NFPA)
- CURRENT DISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

AVAILABLE CIRCUITS - POWER AND LIGHTING

CIRCUITS SHOWN ARE BASED ON BEST KNOWLEDGE OF EXISTING PANEL PLACARDS AND PREVIOUS CONTRACT DOCUMENTS AND DO NOT NECESSARILY INDICATE THE ACTUAL PANEL CIRCUIT NUMBERS FOR USE. IT IS INTENDED TO FIRST REUSE EXISTING POWER CIRCUITS THAT ARE AVAILABLE AFTER DEMOLITION OF WALLS AND EQUIPMENT AND THEN USE AVAILABLE SPARE/SPACES AS NEEDED. CONTRACTOR SHALL VERIFY ACTUAL CIRCUIT AVAILABILITY AFTER DEMOLITION AND NOTIFY ARCHITECT IMMEDIATELY IF THE QUANTITY OF AVAILABLE CIRCUITS IS INADEQUATE. MAXIMUM OF 16 AMP LOAD PER 20A CIRCUIT

LOW VOLTAGE COORDINATION:

REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS

POWER GENERAL NOTES:

A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
B. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND DIMENSIONED LOCATIONS PRIOR TO ROUGH-IN.
C. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.
D. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY EXISTING DRAWINGS DATED 1968, 2003, AND 2011. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANELBOARDS TO MAKE SURE THE QUANTITY OF SPARES FOR CIRCUIT BREAKERS IS SUFFICIENT PER ENGINEERS DESIGN. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
E. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN.
F. NO CONDUCTORS SMALLER THAN AWG #12 SHALL BE USED FOR POWER CIRCUITS GREATER THAN 24 VOLTS AC.
G. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
H. ALL CONDUCTORS GREATER THAN 60' IN LENGTH SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OVER THE TOTAL LENGTH OF THE CIRCUIT CALCULATED AT 80% OF FULL LOAD OF THE OVERCURRENT DEVICE PROTECTING THE CONDUCTOR. CONTRACTOR SHALL PROVIDE PIG-TAIL OR ENCLOSED TERMINATION BLOCKS AS REQUIRED TO LAND CIRCUITS ON DEVICES OR EQUIPMENT.
I. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
J. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN MULTIPLE SINGLE PHASE CIRCUITS. EACH SINGLE PHASE CIRCUIT SHALL HAVE A FULL SIZE DEDICATED NEUTRAL CONDUCTOR.
K. ALL INTERIOR ELECTRICAL HOMERUNS FROM PANELBOARD TO FIRST J-BOX OR DEVICE SERVED SHALL BE IN EMT CONDUIT. THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER TO USE ANY AMOUNT OF MC CABLE (FLEXIBLE METAL CLAD CABLE). IF THE OWNER DOES ALLOW MC CABLE, IT IS ONLY ALLOWED FOR FINAL CONNECTIONS TO LIGHT FIXTURES IN THE PLENUM, OR FINAL CONNECTIONS TO 120V ELECTRICAL DEVICES IN THE WALLS. NO SEGMENT OF MC CABLE SHALL EVER EXCEED SIX FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND RESTRICTIONS.
L. ALL LOW VOLTAGE WIRING INSTALLED IN CEILING SPACE THAT IS ALSO USED IN AIR PLENUM SHALL BE PLENUM RATED CONDUCTOR. WHERE OWNER'S CONSTRUCTION STANDARDS REQUIRE THAT LOW VOLTAGE WIRING BE RUN IN CONDUIT, CONDUIT SHALL BE PROPERLY LABELED AND SUPPORTED.
M. FLEXIBLE CONDUIT SHALL ONLY BE USED FOR LIGHTING FIXTURE WHIPS AND MOTOR CONNECTION. ANY OTHER USE MUST FIRST BE ALLOWED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION.
N. FLEXIBLE CONDUIT LONGER THAN SIX FEET SHALL NOT BE ALLOWED EXCEPT WHERE SPECIFICALLY AUTHORIZED IN WRITING.
O. ALL SPARE CONDUITS AND EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
P. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF OVERCURRENT/SHORT CIRCUIT PROTECTIVE DEVICES BASED ON CALCULATED PROSPECTIVE FAULT ENERGY AT EACH PANELBOARD PER SPECIFICATION SECTION 26 24 16 AND PROVIDE DEVICES MEETING REQUIRED SHORT CIRCUIT INTERRUPTING CAPACITIES (AIC RATING). PROVIDE OVERCURRENT PROTECTIVE DEVICE PER COORDINATION STUDY PER SPECIFICATION SECTION 26 24 16. THIS MAY BE DONE USING MANUAL METHODS FOR SIMPLE SYSTEMS; HOWEVER, THE USE OF RECOGNIZED COMPUTER PROGRAMS THAT HAVE BEEN VALIDATED SHALL BE USED FOR LARGER SYSTEMS. THE RESULTS OF THESE COMPUTATIONS AND GRAPHICAL SOLUTIONS SHALL BE SUBMITTED TO THE ENGINEER WHEN DISTRIBUTION EQUIPMENT ARE SUBMITTED. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
Q. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING [IF APPLICABLE] AND NEW CIRCUITS) IN ALL PANELS WITHIN THE SCOPE OF WORK. OBTAIN BUILDING MANAGEMENT/OWNER'S APPROVAL OF IDENTIFICATION. DIRECTORIES SHALL BE TYPEWRITTEN.
R. ALL ELECTRICAL PANELS, TRANSFORMERS, SWITCH BOARDS, MOTOR CONTROL CENTERS AND ALL OTHER ELECTRICAL EQUIPMENT SHALL BE LABELED WITH AN ENGRAVED NAMEPLATE INDICATING THE EQUIPMENT DESIGNATION.
S. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED. SCHEDULE DOWN TIME WITH BUILDING MANAGEMENT/OWNER.
T. JUNCTION BOXES AND/OR DEVICE BOXES SHALL NOT BE MOUNTED BACK TO BACK WHEN FLUSH MOUNTED IN A WALL. JUNCTION BOXES AND/OR DEVICE BOXES FLUSH MOUNTED ON OPPOSITE SIDES OF A WALL SHALL NOT BE INSTALLED IN THE SAME STUD SPACE.
U. ALL RECEPTACLES MOUNTED ABOVE OR BELOW KITCHEN COUNTERS OR COUNTERS WITH A SINK OR ANY OTHER WATER DISPENSING MECHANISM SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED IN AN OUTDOOR LOCATION OR INTENDED TO PROVIDE POWER FOR VENDING MACHINES SHALL BE GFCI TYPE DEVICES.
V. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 1" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN ACCESSIBLE CEILING FOR ALL TEL/DATA DEVICES SHOWN ON DRAWINGS. COORDINATE EXACT DEVICE LOCATION WITH OWNER'S I.T. REPRESENTATIVE AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
W. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND ¾" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN AN ACCESSIBLE CEILING FOR ALL THERMOSTATS AND SENSORS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
X. WIRING FOR SYSTEMS FURNITURE SHALL BE COORDINATED WITH FURNITURE WIRING REQUIREMENTS PRIOR TO ROUGH IN. IF SYSTEM FURNITURE WIRING REQUIRES SHARING OF NEUTRAL CONDUCTORS, THE CONTRACTOR SHALL CONFIGURE THE OVERCURRENT PROTECTIVE DEVICE AT THE PANEL SUPPLYING POWER TO THE CIRCUITS SUCH THAT IF ONE CIRCUIT IS INTERRUPTED ALL CIRCUITS SHARING THAT SAME NEUTRAL CONDUCTOR ARE ALSO INTERRUPTED. THIS CAN BE DONE WITH MULTI-POLE CIRCUIT BREAKERS OR UL LABELED HANDLE TIES. THE PANEL SCHEDULE SHALL INDICATE WHERE CIRCUITS HAVE BEEN CONFIGURED TO TRIP TOGETHER.
Y. WIRING AT EXPOSED STRUCTURE: AT ALL LOCATIONS WHERE THERE IS NO CEILING, ALL WIRES / CABLES SHALL BE INSTALLED IN CONDUIT (INCLUDING ALL FIRE ALARM, TECHNOLOGY, SECURITY, BMS, ETC). ALL CONDUITS SHALL BE PROVIDED AS PART OF THIS CONTRACT. CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE IN A NEAT AND PROFESSIONAL MANNER, RUNNING LEVEL AND PARALLEL TO THE LINES OF THE BUILDING.
Z. LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS.
AA. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION.
BB. REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
CC. ANY CONDUIT THAT IS ROUTED UNDERGROUND OR IN-SLAB SHALL BE A MINIMUM OF 1" CONDUIT.
DD. ISOLATED GROUND RECEPTACLES ARE FOR COMPUTER USE AND SHALL EACH HAVE INDEPENDENT NEUTRAL AND ISOLATED GROUND WIRES. THE ISOLATED GROUND WIRE SHALL TERMINATE IN AN ISOLATED GROUND BUS IN THE ELECTRIC PANEL. IF THE IG BUS DOES NOT EXIST, CONTRACTOR SHALL PROVIDE NEW BUS WITH ONE (1) #1/0 WIRE IN 3/4" CONDUIT TO GROUNDING SOURCE OF ELECTRIC PANEL.
EE. ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE THE BREAKERS AS SPARES.
FF. CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.
GG. WHERE REQUIRED PER NEC 406.12(4), RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT TYPE.
HH. CONTRACTOR SHALL PROVIDE A 277V CIRCUIT TO EACH VAV BOX INDICATED ON HVAC PLAN FOR CONNECTION OF CONTROLS. CIRCUIT NO MORE THAN FIVE (5) BOXES PER ONE (1) 20 AMP, 277V CIRCUIT.
II. FIRE ALARM CONTRACTOR SHALL PROVIDE 24V TRANSFORMER FOR UP TO 5 FIRE/SMOKE DAMPERS. PROVIDE CONTROL WIRE TO EACH DAMPER. REFER TO THE HVAC PLANS FOR LOCATIONS. FIRE/SMOKE DAMPERS SHALL INTERFACE WITH FIRE ALARM SYSTEM. UTILIZE CIRCUIT AS SHOWN ON PLANS.
JJ. FIRE ALARM STROBE LIGHTS, SPEAKERS AND SMOKE DETECTORS SHALL BE TIED INTO EXISTING FIRE ALARM SYSTEM.
KK. RECEPTACLES SHALL NOT BE MOUNTED UNDERNEATH WHITE BOARDS. WHERE CONFLICTS EXIST, RECEPTACLES SHALL SHIFT TO BE LOCATED OUTSID

DISD DESIGN GUIDELINES

GUIDELINE SECTION	NOTES
26 05 00: 6.1	IDF PANELBOARDS SHALL BE LABELED TO INDICATE THEIR USE ONLY FOR TECHNOLOGY SYSTEMS. IDF PANELBOARDS SHALL NOT POWER OTHER LOAD TYPES SUCH AS CONVENIENCE DUPLEX POWER OUTLETS AND LIGHTING DEVICES.
26 05 00: 6.2	SURGE PROTECTION DEVICES (SPD) ON DISTRIBUTION PANELBOARDS SHALL BE WIRED INTO PANELS USING WIRE LEADS NO LONGER THEN 18 INCHES.
26 05 00: 6.3	MDF/IDF ROOM POWER CIRCUITS FOR RACK MOUNTED EQUIPMENT AND EQUIPMENT IN COMMUNICATION ROOMS SHALL HAVE SPD PROTECTION.
26 05 00: 6.4	HVAC EQUIPMENT SHALL BE ON SEPARATE POWER CIRCUITS, AND ON DEDICATED PANELBOARD SEPARATE FROM OTHER LOADS.
26 05 00: 7.1	PROVIDE (2) 1" CONDUITS FROM THE IDF/MDF PANELBOARD TO EACH MDF/IDF ROOM WITH PULL STRINGS ATTACHED. CONDUITS SHALL BE ADJACENT TO THE POWER OUTLETS FOR THE RACK EQUIPMENT.
26 05 00: 7.2	PROVIDE (4) 4" CONDUIT SLEEVES THROUGH THE FOUNDATION GRADE BEAMS TO ALLOW FOR FUTURE EXTENSIONS OF THE ELECTRICAL SYSTEM.
26 05 00: 7.3	CONDUITS SHALL NOT BE PLACED OR ROUTED UNDER SLAB FLOOR.
26 05 00: 7.4	SUSPEND CONDUIT FROM THE BUILDING STRUCTURE, NOT FROM LAY-IN CEILING SUSPENSION SYSTEM OR SIMILAR MEANS.
26 05 00: 7.5	USE OF METAL CLAD (MC) CABLE/FLEXIBLE CONDUIT IS NOT ALLOWED EXCEPT FOR LIGHTING FIXTURE WHIPS.
26 05 00: 7.6	USE OF ALUMINUM WIRING IS NOT ALLOWED.
26 05 00: 8.1	RACEWAYS SHALL BE ALLOWED IN COMPUTER LABS ONLY WHEN WALL CONSTRUCTION TYPE WILL NOT ALLOW CONCEALED CONDUITS.
26 05 00: 8.2	RACEWAYS SHALL ACCOMMODATE 20 TECHNOLOGY OUTLETS AND 10 QUAD ISOLATED GROUND ELECTRICAL OUTLETS.
26 05 00: 8.3	RACEWAYS ARE NOT ALLOWED TO BE CAST INTO THE CONCRETE FLOOR SYSTEM AND RAISED FLOORING SYSTEM.
26 05 00: 8.4	ALL RACEWAYS SHALL BE INSTALLED AS DISCRETELY AS POSSIBLE WITH LITTLE OR NO DISTURBANCE TO CLASSROOM FUNCTIONALITY OR AESTHETIC.
26 05 00: 8.5	RACEWAYS SHALL BE LIMITED TO (1) VERTICAL RACEWAY PER WALL WHERE POSSIBLE.
26 05 00: 8.6	RACEWAYS LOCATED IN OPEN CEILING AREAS AND ON EXTERIOR PATHWAYS SHALL BE METAL WITH TAMPER RESISTANT SCREWS. COORDINATE THE FINISH OF THE RACEWAY WITH ARCHITECT.
26 05 00: 9	DATA DROPS AND ELECTRICAL OUTLETS LOCATED ABOVE SCIENCE ROOM AND MEDIA CENTER CASEWORK, AT AUDITORIUM STAGES, AND FOR SPECIAL ARCHITECTURAL ELEMENTS AND FURNITURE ARE REQUIRED TO SHOW DIMENSIONS AND NOTES TO ASSURE CORRECT INSTALLATION LOCATIONS.
26 05 00: 12.2	CONTRACTOR RESPONSIBILITY MATRIX SHALL BE PROVIDED ON THE GENERAL DRAWING CODE SHEET FOR STORM SHELTERS AND ON THE ELECTRICAL DRAWINGS SHEETS
26 09 41: 1.3	SEQUENCE OF OPERATIONS AND SCENE DESCRIPTIONS FOR EACH SPACE TYPE SHALL BE CLEARLY PROVIDED ON THE LIGHTING DRAWINGS SHEETS. ONE GENERAL LIGHTING SEQUENCE THAT APPLIES TO MANY OR ALL ROOM TYPES IS NOT ALLOWED.
26 09 41: 1.4	INTERIOR LIGHTING CONTROLS ARE NOT TO BE INTEGRATED INTO BUILDING ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) BUT ARE CAPABLE OF INTEGRATION IN THE FUTURE.
26 09 41: 1.5	BATTERY OPERATED DEVICES AND CONTROLS ARE NOT ALLOWED.
26 09 41: 1.6	THE DRAWINGS SHALL NOTE - THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS.
26 09 41: 2.1.1	ROOM > 40SQFT: MOTION SENSORS SHALL BE PREFERABLY CORNER MOUNTED OR CEILING MOUNTED.
26 09 41: 2.1.2	ROOM < 40 SQFT: SENSOR SWITCHES SHALL BE ALLOWED IN ROOMS.
26 09 41: 2.1.4	ALL MOTION SENSORS TO BE SET TO 20 MINUTE TIME DELAY OR TO CODE SPECIFIED AMOUNT WHICHEVER IS MORE STRINGENT AND ADJUSTED TO MAXIMUM SENSITIVITY, UNLESS OTHERWISE NOTED ON THE DRAWINGS. SENSORS TO BE CAPABLE OF BEING SET TO 5 MINUTES AND 1 MINUTE FOR TESTING.
26 09 41: 2.2.3	WHERE KEYED SWITCHES ARE INDICATED ON THE PLANS (GROUP STUDENT RESTROOMS ONLY), THE "OFF" FEATURE OF THE SMART SWITCH IS TO BE DISABLED FOR A SCHEDULE SIMILAR TO 7AM-5PM. COORDINATE AND PROGRAM EXACT SCHEDULE WITH DALLAS ISD.
26 09 41: 2.3.1	IN THE EVENT OF A HARDWARE OR SOFTWARE OR COMPONENT FAILURE, THE LIGHTING IN THE SPACE IS TO DEFAULT TO THE "ON" POSITION.
26 09 41: 2.3.2	LOCATE THE ROOM CONTROLLER ABOVE THE LAY-IN CEILING ABOVE THE SWITCHES NEAR THE EXIT DOOR. PROVIDE A PERMANENT LABEL ON THE LAY-IN CEILING GRID TO IDENTIFY ITS LOCATION. THE LABEL SHALL SAY "LIGHTING CONTROLLER".
26 21 00: 1.2.1	NEW ELECTRICAL SERVICES SHALL HAVE A 20% SPARE CAPACITY FOR FUTURE LOAD GROWTH
26 21 00: 1.3	ELECTRICAL UNDERGROUND PRIMARY AND SECONDARY CONDUITS SHALL BE ENCASED IN RED CONCRETE. RED PIGMENT SHALL BE INTEGRALLY MIXED INTO 3000 PSI CONRETE. THE CONDUITS SHALL HAVE A MINIMUM COVER OF 2 FEET.
26 21 00: 1.5	PROVIDE 1" CONDUIT TO CONNECT THE METER DEMAND PULSE DEVICE IN THE ELECTRIC METER ENCLOSURE TO THE EMCS DEVICE LOCATED IN THE BUILDING.
26 21 00: 1.7	MAIN SERVICE ENTRANCE EQUIPMENT SHALL HAVE A POWER MONITORING UNIT EQUAL TO A SQUARE D POWERLOGIC UNIT. THE UNIT SHALL PROVIDE POWER MONITORING, POWER REPORTING, ALARM NOTIFICATION (LOSS OF POWER), AND CONNECT INTO THE DALLAS ISD ENERGY MANAGEMENT SYSTEM.
26 27 00: 1	LIMIT THE NUMBER OF RECEPTACLES ON A CIRCUIT TO EIGHT.
26 27 00: 2	NO MORE THAN THREE QUAD POWER RECEPTACLES ARE ALLOWED PER CIRCUIT FOR ANY LOCATION.
26 27 00: 3	NO SHARING OF CIRCUITS BETWEEN ROOMS OR AREAS IS ALLOWED.
26 27 00: 4	FLOOR RECEPTACLES ARE NOT PERMITTED, EXCEPT WHERE REQUIRED BY CODE.
26 27 00: 6	ALL CONVENIENCE RECEPTACLES AND MOTORS 1/4HP OR LESS SHALL BE 120V.
26 27 00: 7	SWITCH AND RECEPTACLE COVER PLATES SHALL BE BRUSHED STAINLESS STEEL.
26 27 00: 8	OUTDOOR RECEPTACLES SHALL BE LOCATED ADJACENT TO EACH EXTERIOR DOOR, AND PLASTIC COVERS ON EXTERIOR RECEPTACLES ARE NOT ALLOWED.
26 27 00: 9	AT EACH COPY MACHINE LOCATION, PROVIDE BOTH 240V AND 120V RECEPTACLES ON DEDICATED POWER CIRCUITS.
26 27 00: 10	AT EACH INSTANCE OF HORIZONTAL WINDOW BLINDS, COORDINATE WITH THE ARCHITECT TO DETERMINE THE LOCATIONS OF MANUAL AND MOTORIZED BLINDS. PROVIDE 120V POWER CIRCUITING TO THE MOTORIZED BLINDS AT ALL LOCATIONS OF MOTORIZED BLINDS.
26 27 00: 11	SWITCHES AND RECEPTACLES WITHIN CHALKBOARDS, MARKERBOARDS, OR TACKBOARDS ARE NOT ALLOWED.
26 27 00: 13	ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY DALLAS ISD, SUCH AS KITCHEN EQUIPMENT, APPLIANCES, SHOP EQUIPMENT, ETC. SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE. PROVIDE DEDICATED POWER CIRCUITS FOR EQUIPMENT.
26 27 00: 15	ALL RECEPTACLES IN MDF/IDF SPACE TO BE POWERED BY DEDICATED CIRCUITS WITH SURGE PROTECTION DEVICE (SPD).
26 27 00: 17	PROVIDE (1) QUAD RECEPTACLE AT EACH CASH REGISTER OR POINT-OF-SALE (POS) REGISTER IN CAFETERIA AND CAFETERIA MANAGER'S OFFICE. PROVIDE SURGE PROTECTION DEVICE (SPD) ON ELECTRICAL CIRCUIT.
26 27 00: 19	PROVIDE 120V POWER CIRCUITING TO LIGHTING CONTROL BOARD, SOUND CONTROL MIXER, AMPLIFIERS, EQUALIZERS, PROCESSORS, INTERCOM SYSTEM, CD PLAYER, AND AUDIO/VISUAL PROJECTOR SYSTEM, AS APPLICABLE IN STAGE AREA.
26 27 00: 22.1	PROVIDE GROUNDED QUAD POWER OUTLETS INSIDE OF ALL ADJUSTABLE STORAGE CABINETS, AT LEAST (2) PER WALL IN LIBRARY STORAGE SUB ROOMS.
26 27 00: 22.2	PROVIDE AT LEAST (1) GROUNDED QUAD OUTLET PER LIBRARY DISPLAY CASE.
26 27 00: 22.3	PROVIDE (2) QUAD OUTLETS PER CIRCULATION DESK AREA.
26 27 00: 22.4	PROVIDE (3) TO (4) GROUNDED QUAD OUTLETS PER WALL IN LIBRARY.
26 27 00: 23	PROVIDE (3) TO (4) GROUNDED QUAD OUTLETS PER WALL IN MAKERSPACES AND LEARNING EXPERIENCE SPACES.
26 27 00: 24	PROVIDE A HARD-WIRED DISCONENCT SWITCH FOR THE KILN IN KILN 197. LOCATE THE DISCONNECT SWITCH AT KILN ROOM DOOR.
26 28 00: 1	PROVIDE THERMO-MAGNETIC BREAKERS (INCLUDING RBEAKERS WITH GFI PROTECTION) EXCEPT WHERE NOT ALLOWED BY THE NEC.
26 28 00: 2	DIGITAL SOLID STATE BREAKERS SHALL ONLY BE USED WHERE REQURIED BY THE NEC.
26 50 00: 1.4	EXIT AND EMERGENCY EGRESS LIGHTING SHALL BE CONNECTED TO A BRANCH CIRCUIT SERVING LIGHTING IN THE AREA AHEAD OF ANY SWITCHING.
26 50 00: 1.6	STAIRWELL LIGHTING SHALL BE WALL-MOUNTED, CENTERED ABOVE THE LANDINGS, AND IT SHALL AVOID FIXTURE PLACEMENT ABOVE STAIR RUNS.
26 50 00: 2.4	ALL LED LIGHT FIXTURES SHALL BE 4000K
26 50 00: 3	ALL HIGH BAY LUMINAIRES LOCATED IN GYMS, PLAY AREAS, MULTIPURPOSE SPACES, ETC TO HAVE A WIRE GUARD. LENS, IF PROVIDED, OR WIRE GUARD OF HIGH BAY LUMINAIRES SHALL BE HINGED AND TO HAVE RETAINER LATCHES FOR TOOL-LESS MAINTENANCE.
26 50 00: 4.5	EXIT SIGNS IN GYMS SHALL HAVE A WIRE GUARD.
26 50 00: 4.7	ALL EXIT SIGNS SHALL HAVE VANDAL RESISTANT HOUSING IN ALL LOCATIONS.
26 52 13: 1.1	EMERGENCY LIGHTING FIXTURES SHALL BE TWO-LAMP, LED, WALL-MOUNTED 'BUG-EYE" FIXTURES
27 05 00: 3.2.2	ELECTRICAL POWER IN MDF/IDF ROOMS TO BE PROVIDED VIA DEDICATED ISOLATED GROUND POWER CIRCUIT.
27 05 00: 4.3.1.1	PROVIDE (1) DUPLEX ELECTRICAL OUTLET FOR EACH CEILING-MOUNTING PROJECTOR LOCATION.
27 05 00: 5.1.8.3.5	POWER CLUSTERS AT MDF/IDF ROOMS SHALL INCLUDE: (2) L6-30 RECEPTACLES FOR UPS, (2) 208V, 20A L6-20 TWIST-LOCK RECEPTACLES, AND (2) 120V, 20A QUAD SP-20 RECEPTACLES
27 05 00: 5.1.9.1.2	PROVIDE DEDICATED ISOLATED GROUND 120V, 20A RECEPTACLES AT +18" AFF SPACED AT 6' INTERVALS IN IDF ROOMS.
27 05 00: 5.2.2.3	EACH DATAPORT FACEPLATE IS TO BE PAIRED WITH A QUAD RECEPTACLE LOCATED WITHIN 18". ONE DUPLEX POWER SHALL BE LOCATED BEHIND THE INTERACTIVE DISPLAY LOCATION.
28 46 21: 1.2	NOTIFIER #NFS2-3030 IS THE PREFERRED SYSTEM A WAIVER FROM DALLAS ISD CONSTRUCTION SERVICES IS REQUIRED FOR THE USE OF OTHER SYSTEMS. THE NOTIFIER SYSTEM SHALL HAVE PROVISIONS FOR NETWORKING INTO DISD'S CENTRAL CONTROL AND NOTIFICATION SYSTEM TO BE MONITORED FROM A CENTRAL LOCATION.
28 46 21: 2.1.1	THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.
28 46 21: 2.1.2	THE FIRE ALARM PANELS SHALL HAVE INTEGRAL DIALERS CAPABLE OF REMOTE UPLOADING AND DOWNLOADING FEATURES.
28 46 21: 2.1.3	DOOR HOLDERS SHALL BE ELECTROMAGNETIC AND CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. ELECTROMECHANICAL DEVICES ARE NOT ACCPETABLE.
28 46 21: 2.1.4	FIRE ALARM SYSTEM SHALL HAVE SURGE PROTECTION AT EACH LOCATION THE SIGNALING LINE CIRCUIT LEAVES THE MAIN BUILDING OR RETURNS TO THE BUILDING FROM PORTABLES.
28 46 21: 2.1.5	FIRE ALARM SYSTEMTO HAVE INEGRAL MASS NOTIFICATION.
28 46 21: 2.1.6	CEILING-MOUNTED AUDIO/VISUAL DEVICES ARE PREFERRED.
28 46 21: 2.1.7	PULL STATION PROTECTORS WITH INTEGRAL HORN ARE REQUIRED FOR ALL MANUAL PULL STATIONS LOCATED IN GYMNASIUM.
28 46 21: 2.1.13	FIRE ALARM CONTROL PANELS (FACP) SHALL BE LOCATED IN THE MAIN ADMINISTRATIVE OFFICE.
28 46 21: 2.1.14	ALL FIRE ALARM AC BREAKERS SHALL HAVE LOCK-ON DEVICES INSTALLED PER NEC 70 ELECTRICAL CODE.
28 46 21: 3.1	THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH DISTRICT TO PROVIDE ANY DEDICATED PHONE LINE THAT ARE REQUIRED.

LIGHTING CONTROL NARRATIVE:

THE FOLLOWING SUMMARY PROVIDES THE DESIGN INTENT FOR LIGHTING CONTROLS AND ZONES THAT COMPLIES WITH THE ENERGY CODE LISTED ON THIS SHEET UNDER THE "ELECTRICAL APPLICABLE CODE" NOTE. ALTHOUGH THE DESIGN IS AROUND A SPECIFIC MANUFACTURER'S SYSTEM, THE LIGHTING CONTROL SYSTEM IS NOT RESTRICTED TO BEING PROVIDED BY THAT MANUFACTURER REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS. THE SPECIFIC MANUFACTURER'S SYSTEM IS SHOWN TO CONVEY THE INTENDED LEVEL OF QUALITY AND CAPABILITY OF THE SYSTEM:

BASIS OF DESIGN MANUFACTURER AND SYSTEM:

SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE NARRATIVE BELOW AND SCHEDULE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:

ACUITY NLIGHT
TOM MENDOZA, HORTON CONTROLS GROUP
CELL: (214) 658-9030
TMENDOZA@HORTONCONTROLSGROUP.COM

GENERAL LIGHTING CONTROLS REQUIREMENTS:

BUILDING MANAGEMENT SYSTEM (BMS) INTEGRATION:
- LIGHTING CONTROL SYSTEM SHALL NOT BE INTEGRATED INTO BMS, BUT SHALL BE CAPABLE OF BEING INTEGRATED IN THE FUTURE. THE LIGHTING CONTROL SYSTEM SHALL HAVE INTEGRAL TIMECLOCK(S) AND PHOTOCELL(S) TO ACHIEVE TIME AND DAYLIGHT CONTROLS AS NOTED.

SEQUENCE OF OPERATIONS -REQUIRED IN SUBMITTAL:
- A NARRATIVE DESCRIPTION OF THE SEQUENCE OF OPERATIONS FOR EACH SPACE IN SHALL BE INCLUDED IN THE CONTROLS SUBMITTAL. IN ADDITION TO THE DIAGRAMS AND PRODUCT DATA, ANY CONTROLS SUBMITTAL WITHOUT CLEAR NARRATIVES OF THE CONTROLS IN EACH SPACE (THAT A LAY PERSON COULD UNDERSTAND) WILL BE REJECTED AND REQUIRED TO BE RESUBMITTED WITH NARRATIVES.

POWER COORDINATION:
- CONTRACTOR SHALL PROVIDE DEDICATED POWER TO LIGHTING CONTROL SYSTEM PROCESSORS, GATEWAYS, AND ALL NECESSARY ACCESSORIES AS REQUIRED BY SPECIFIC LIGHTING CONTROL MANUFACTURER.

PLUG LOAD CONTROLS:
- THIS PROJECT HAS PLUG LOAD CONTROLS THROUGHOUT THE SPACES LISTED BELOW AS REQUIRED PER IECC. REFER TO THE ELECTRICAL FLOOR PLANS FOR NUMBER AND LOCATION OF RECEPTACLES THAT NEED TO BE CONTROLLED VIA LIGHTING CONTROLS OCCUPANCY SENSORS.
  - PRIVATE OFFICES
  - CONFERENCE ROOMS
  - PRINT/COPY ROOMS
  - BREAKROOMS
  - CLASSROOMS
  - INDIVIDUAL WORKSTATIONS – INCLUDING THOSE INSTALLED IN MODULAR FURNITURE.

COMMISSIONING AGENT:
- THE LIGHT FIXTURES AND LIGHTING CONTROLS SHALL HAVE THE SAME MANUFACTURER REPRESENTATIVE TO ENSURE A SINGLE POINT OF CONTACT FOR THE TENANT AND OWNER DURING LIGHTING AND LIGHTING CONTROLS COMMISSIONING.

MINIMUM REQUIRED SEQUENCE OF OPERATIONS (SOO) BY SPACE TYPE:

ELECTRICAL, MECHANICAL, MDF/IDF/DATA ROOMS
- PROVIDE SINGLE POLE SWITCH ADJACENT TO DOOR. AUTOMATIC CONTROL SHALL NOT BE REQUIRED FOR SAFETY REASONS.

INDIVIDUAL STAFF/STUDENT RESTROOMS
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR AND LOW VOLTAGE SWITCHES AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE AUTO ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY.
- EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED.

LOBBIES AND CORRIDORS
- PROVIDE OCCUPANCY SENSOR(S)
- NORMAL HOURS: AUTO ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY, MANUAL OFF VIA LOCAL KEYPAD.
- AFTER HOURS: LIGHTING SHALL BE CONTROLLED ON/OFF VIA LOCAL OVERRIDE KEYPADS. AFTER HOURS OVERRIDE SHALL ENABLE ON FOR 1.5 HOURS; A WARNING FLASH SHALL OCCUR 5 MINUTES PRIOR TO TIME-OUT.
- EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED UNLESS NOTED OTHERWISE.

ENCLOSED OFFICES
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND DIMMING LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE MANUAL ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

ENCLOSED ROOMS (CONFERENCE, STORAGE, ETC.)
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE MANUAL ON, AUTO OFF
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

CLASSROOMS (STANDARD CLASSROOM, SCIENCE LABS, CULINARY ROOMS, ART ROOMS AND LECTURE HALLS, ETC.)
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE KEYPADS: ONE AT THE TEACHING WALL AND ONE AT THE ENTRANCE TO THE CLASSROOM
- LIGHTING SHALL BE MANUAL ON, AUTO OFF AFTER 20 MINUTES OF INACTIVITY
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.
- TO MEET CHPS 13.2.6 REQUIREMENTS, TEACHERS SHALL BE ABLE TO MANUALLY OVERRIDE THE TIME DELAY FOR THE OCCUPANCY SENSOR FOR A SPECIFIC NEED OF UP TO 3 HOURS. AT THE END OF THE SPECIAL PERIOD, THE DELAY IS AUTOMATICALLY RESET TO ITS INITIAL, SPECIFIED SETTING
- SMART SWITCHES SHALL HAVE THE FOLLOWING BUTTONS:
  a. ON/OFF
     - ON SHALL ACTIVATE LIGHTING TO 100% CAPACITY AND NOT RETURN LIGHTING TO PREVIOUS SETTING
     - OFF SHALL DEACTIVATE ALL ROOM LIGHTING TO 0%
  b. SCENE 1: TEACHING WALL
  c. SCENE 2: AV MODE
  d. DIMMING CONTROL UP
     - DIMMING MODES SHALL BE CAPABLE OF INCREASING AND DECREASING LIGHTING LEVELS IN ALL OPERATIONAL MODES
  e. DIMMING CONTROL DOWN
     - DIMMING MODES SHALL BE CAPABLE OF INCREASING AND DECREASING LIGHTING LEVELS IN ALL OPERATIONS MODES

DAYLIGHT ZONES
- PROVIDE PHOTOCELL AND MANUAL OVERRIDE SWITCH AS INDICATED ON ELECTRICAL PLANS
- PHOTOCELL SHALL ENABLE AUTOMATIC DIMMING IN ACCORDANCE WITH ENERGY CODE REQUIREMENTS.
- MANUAL OVERRIDE SWITCH SHALL ENABLE MANUAL DIMMING & ON/OFF, AS WELL.

EXTERIOR LIGHTING
- EXTERIOR LIGHTING SHALL BE CONNECTED TO LIGHTING CONTROL SYSTEM. LIGHTING CONTROL SYSTEM SHALL CONTROL FIXTURES VIA TIME CLOCK AND PHOTOCELL.
- SITE LIGHTING NOT BEING USED FOR LIGHTING THE BUILDING FAÇADE OR LANDSCAPE FEATURES SHALL BE DIMMABLE AND CONTROLLED BY DIMMING RELAYS IN LIGHTING CONTROL PANEL. PROVIDE ADDITIONAL 1"C WITH LOW VOLTAGE WIRING TO EACH FIXTURE. FIXTURES SHALL DIM BY 50% BETWEEN MIDNIGHT AND 6AM.
- TO MEET CHPS SS 12.1.1, ALL OUTDOOR LIGHTING NOT REQUIRED FOR EMERGENCY OR SAFETY FUNCTIONS SHALL BE TURNED OFF AUTOMATICALLY AFTER HOURS. MANUAL OVERRIDE VIA THE LIGHTING CONTROL SYSTEM SHALL HAVE A TIMED AUTOMATIC SHUT-OFF. EMERGENCY AND SAFETY LIGHTING SHALL INCLUDE POLE LIGHTS, WALL-PACKS, AND DESIGNED ZONES OF EXTERIOR DOWNLIGHTS. NON-EMEGENCY LIGHTING COULD INCLUDE DECORATIVE FACADE LIGHTING AND LANDSCAPE LIGHTING.

CHPS ELECTRICAL REQUIREMENTS:

NOTE THAT THESE CHPS REQUIREMENTS APPLY TO SCOPE IN THE NEW ADDITION ONLY.

EQ 13.1 - ELECTRIC LIGHTING PERFORMANCE
1. ALL LIGHTING SHALL BE RoHS COMPLAINT FOLLOWING THE MOST CURRENT EUROPEAN RoHS REGULATIONS, INCLUDING ALL APPLICABLE EXEMPTIONS.
2. SEE 13.2 FOR CRI AND INITIAL LIGHT OUTPUT REQUIREMENTS.

EQ 13.2 - SUPERIOR ELECTRIC LIGHTING PERFORMANCE
1. TO COMPLY WITH EQ 13.2.6: PROVIDE TEACHER CONTROL AT THE FRONT OF EACH CLASSROOM FOR GENERAL / AV MODE, WHITE BOARD CONTROL, AND FOR A MANUAL OVERRIDE OF OCCUPANCY SENSOR. OVERRIDE OF SENSOR SHALL ALLOW TEACHER TO ADJUST TIME OF OVERRIDE FOR UP TO 3 HOURS. AT THE END OF THIS PERIOD, THE DELAY SHALL AUTOMATICALLY RESTORE TO ITS INITIAL, SPECIFIED SETTING.
2. TO COMPLY WITH EQ 13.2.7: PROVIDE NETWORK CONNECTION TO ALLOW THE ON/OFF SIGNAL FROM EACH OCCUPANCY SENSOR IN EACH CLASSROOM TO CONNECT TO A SCHOOL-WIDE MANAGEMENT SYSTEM.
3. TO COMPLY WITH EQ 13.2.8: ALL LIGHTING SHALL HAVE LIGHT SOURCES WITH A CRI OF 85 OR GREATER. LED LIGHTING SHALL MEET THE FOLLOWING:
   A. IN ALL CLASSROOMS AND EDUCATIONAL LEARNING SPACES, THE MEASURED PERCENT FLICKER FROM LED SYSTEM (INCLUDING DRIVER, LED ARRAY, DIMMING CONTROLS, AND DAYLIGHT SENSOR) SHALL BE 10% OR LESS ACROSS THE ENTIRE DIMMING RANGE.
   B. LED LIGHTING SHALL MAINTAIN AT LEAST 70% OF THEIR INITIAL LIGHT OUTPUT (L70) AT 100,000 HOURS OF OPERATION.

EQ 16.1 - MERCURY REDUCTION
1. IF ANY FLUORESCENT OR HPS LAMPS, THE MERCURY CRITERIA MUST MEET THE TABLE INCLUDED IN CHPS CRITERIA.

EQ 17.1 - BUILDING ENVELOPE INTEGRITY
1. ANY WALL, FLOOR, OR CEILING OPENINGS THAT ARE CORED, DRILLED, OR CUT OUT DURING CONSTRUCTION MUST BE SEALED AND COMPLETELY CLOSED UP TO PREVENT THE FLOW OF AIR OR WATER THROUGH THE OPENING. COORDINATE WITH GC, MECHANICAL CONTRACTOR, AND PLUMBING CONTRACTOR AS NEEDED.

SS 12.1 - AVOID LIGHT POLLUTION AND UNNECESSARY LIGHTING
1. TO COMPLY WITH SS 12.1.1: ALL OUTDOOR NON-EMERGENCY LIGHTING WILL BE AUTOMATICALLY CONTROLLED TO TURN OFF AFTER HOURS. PROVIDE MANUAL OVERRIDE CAPABILITY FOR AFTER-HOURS USE WITH TIMED AUTOMATIC SHUT-OFF (DARK CAMPUS SCENARIO).

PER DISD TDG 01 10 00: 10 -
A. WIRING SHALL COMPLY WITH EQ 15 1 LOW EMF WIRING AND TESTING REQUIREMENTS. CONTRACTOR SHALL FOLLOW THE BELOW REQUIREMENTS FOR COMPLIANCE:
   a. ALL WIRING SHALL BE COMPLIANCE WITH NEC 2017
   b. PROPERLY WIRE ALL PANELS WITH CORRECT NEUTRAL-TO-GROUND RELATIONSHIPS AND BONDING
   c. PROPERLY WIRE ALL 3-WAY SWITCH WIRING AND RECEPTACLE CIRCUITS.
   d. AVOID NEUTRALS FROM SEPARATE BRANCH CIRCUITS BEING CONNECTED ANYWHERE BEYOND THE PANEL OF ORIGIN FOR THE CIRCUITS
   e. AVOID NEUTRAL-GROUND SHORTS ANYWHERE IN THE SYSTEM
   f. CONTRACTOR SHALL CHECK EACH ROOM/SPACE FOR CORRECT WIRING AND MEASURE EXTREMELY LOW FREQUENCY (ELF) MAGNETIC FIELD EXPOSURE LEVELS (tRMS) COMPLYING WITH 1 mG (100 nT). REFER TO TABLE 10 IN 2015 CHPS CRITERIA FOR FURTHER INFORMATION.

REPLACE EXISTING SITE LIGHTING:

EXISTING SITE LIGHTING AROUND THE SCHOOL IS TO BE REPLACED WITH LED EQUIVALENT FIXTURE. INTENT IS FOR EXISTING LIGHTING POWER CIRCUITS TO BE REUSED AND RECONNECTED TO NEW LIGHITNG.

REPLACE EXISTING SITE LIGHTING CONTROLS:

EXISTING SITE LIGHTING CONTROL SYSTEM IS TO BE REPLACED WITH NEW LIGHTING CONTROLS. REFER TO LIGHTING CONTROL NARRATIVE ON THIS SHEET FOR SPECIFIC REQUIREMENTS.

EXISTING FIRE ALARM NOTE:

EXISTING FIRE ALARM SYSTEM IS TO BE REPLACED WITH NEW DISD STANDARD FIRE ALARM SYSTEM THROUGHOUT THE BUILDING.

THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 9000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM| JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRICAL
NOTES & SYMBOLS

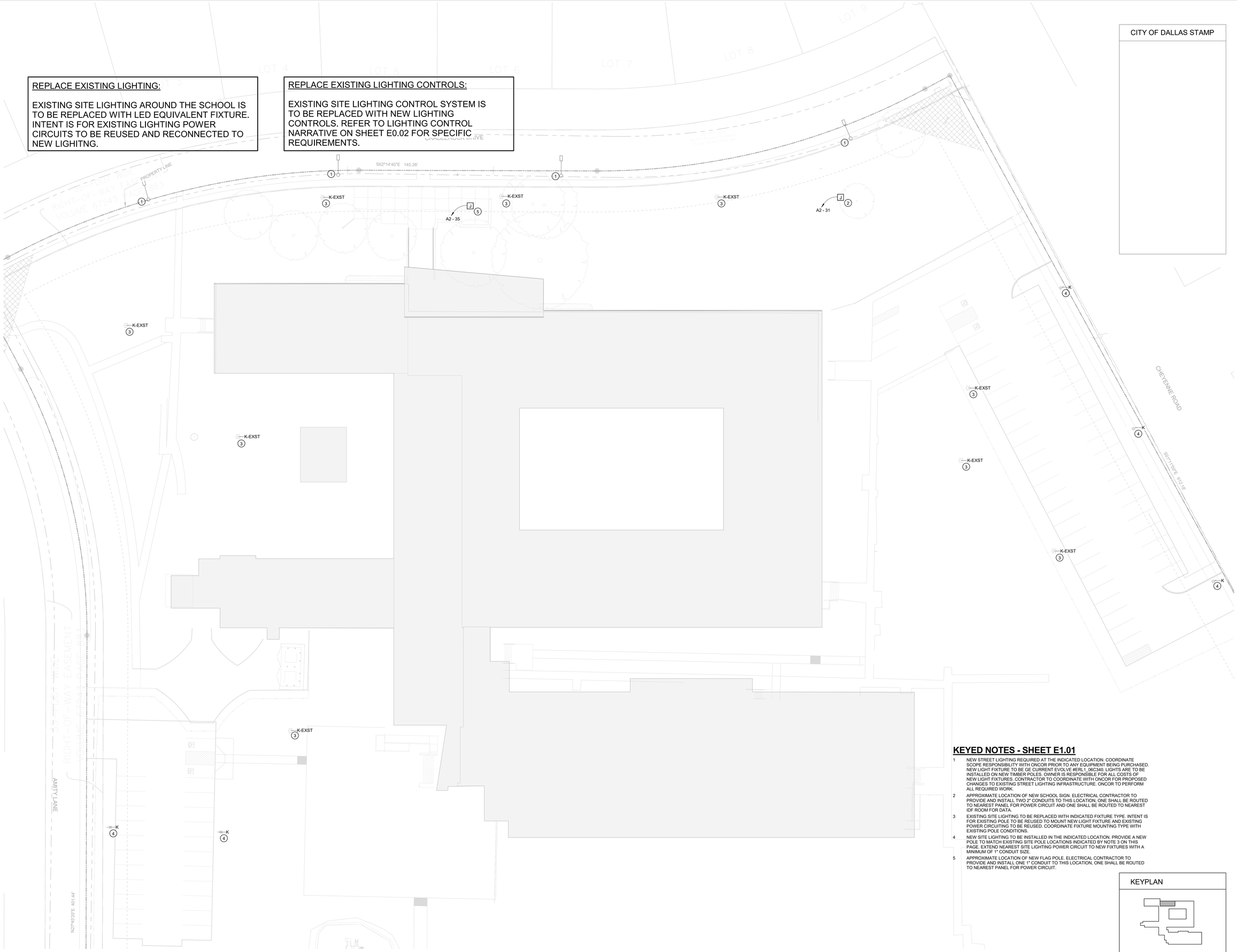
Sheet Number
E0.02

REPLACE EXISTING LIGHTING:

EXISTING SITE LIGHTING AROUND THE SCHOOL IS TO BE REPLACED WITH LED EQUIVALENT FIXTURE. INTENT IS FOR EXISTING LIGHTING POWER CIRCUITS TO BE REUSED AND RECONNECTED TO NEW LIGHITNG.

REPLACE EXISTING LIGHTING CONTROLS:

EXISTING SITE LIGHTING CONTROL SYSTEM IS TO BE REPLACED WITH NEW LIGHTING CONTROLS. REFER TO LIGHTING CONTROL NARRATIVE ON SHEET E0.02 FOR SPECIFIC REQUIREMENTS.



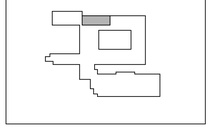
1 ELECTRICAL SITE PLAN
1" = 20'-0"

KEYED NOTES - SHEET E1.01

1. NEW STREET LIGHTING REQUIRED AT THE INDICATED LOCATION. COORDINATE SCOPE RESPONSIBILITY WITH ONCOR PRIOR TO ANY EQUIPMENT BEING PURCHASED. NEW LIGHT FIXTURE TO BE GE CURRENT EVOLVE #ERL1, 06C340. LIGHTS ARE TO BE INSTALLED ON NEW TIMBER POLES. OWNER IS RESPONSIBLE FOR ALL COSTS OF NEW LIGHT FIXTURES. CONTRACTOR TO COORDINATE WITH ONCOR FOR PROPOSED CHANGES TO EXISTING STREET LIGHTING INFRASTRUCTURE. ONCOR TO PERFORM ALL REQUIRED WORK.
2. APPROXIMATE LOCATION OF NEW SCHOOL SIGN. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TWO 2" CONDUITS TO THIS LOCATION, ONE SHALL BE ROUTED TO NEAREST PANEL FOR POWER CIRCUIT AND ONE SHALL BE ROUTED TO NEAREST IDF ROOM FOR DATA.
3. EXISTING SITE LIGHTING TO BE REPLACED WITH INDICATED FIXTURE TYPE. INTENT IS FOR EXISTING POLE TO BE REUSED TO MOUNT NEW LIGHT FIXTURE AND EXISTING POWER CIRCUITING TO BE REUSED. COORDINATE FIXTURE MOUNTING TYPE WITH EXISTING POLE CONDITIONS.
4. NEW SITE LIGHTING TO BE INSTALLED IN THE INDICATED LOCATION. PROVIDE A NEW POLE TO MATCH EXISTING SITE POLE LOCATIONS INDICATED BY NOTE 3 ON THIS PAGE. EXTEND NEAREST SITE LIGHTING POWER CIRCUIT TO NEW FIXTURES WITH A MINIMUM OF 1" CONDUIT SIZE.
5. APPROXIMATE LOCATION OF NEW FLAG POLE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ONE 1" CONDUIT TO THIS LOCATION, ONE SHALL BE ROUTED TO NEAREST PANEL FOR POWER CIRCUIT.

CITY OF DALLAS STAMP

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

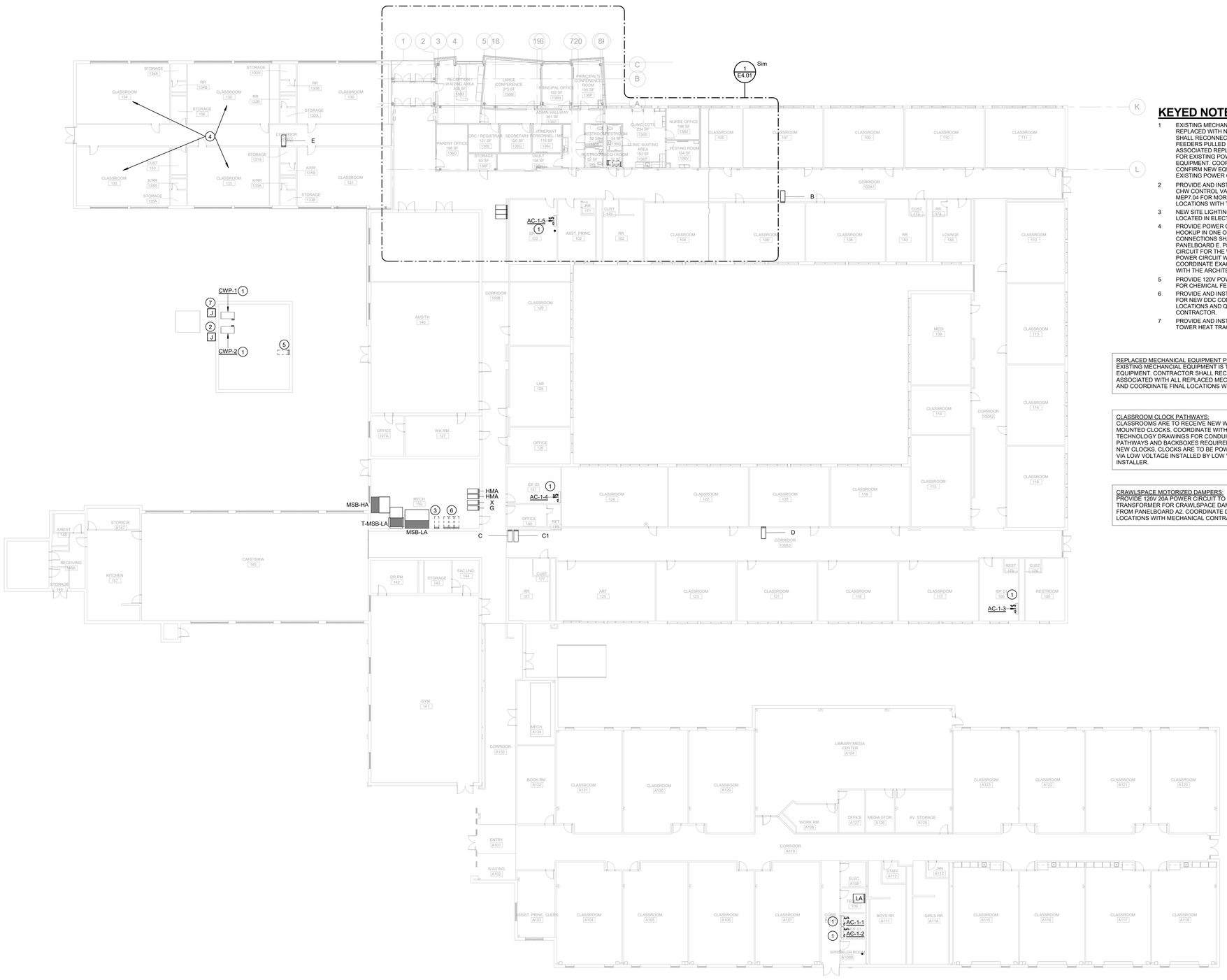
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRICAL SITE PLAN

Sheet Number
E1.01



KEYED NOTES - SHEET E2.01

1. EXISTING MECHANICAL EQUIPMENT IS TO BE REMOVED AND REPLACED WITH NEW EQUIPMENT. ELECTRICAL CONTRACTOR SHALL RECONNECT TO EXISTING CIRCUIT BREAKER WITH NEW FEEDERS PULLED WITHIN THE EXISTING CONDUIT TO ASSOCIATED REPLACED MECHANICAL EQUIPMENT. INTENT IS FOR EXISTING POWER CIRCUIT TO BE REUSED FOR NEW EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR TO CONFIRM NEW EQUIPMENT IS CAPABLE OF BEING FED WITH EXISTING POWER CIRCUIT.
2. PROVIDE AND INSTALL 120V POWER CIRCUITS FOR HW AND CHW CONTROL VALVES. REFER TO SHEETS MEP7.02 AND MEP7.04 FOR MORE INFORMATION AND COORDINATE FINAL LOCATIONS WITH THE MECHANICAL CONTRACTOR.
3. NEW SITE LIGHTING RELAY PANEL FOR SITE LIGHTING TO BE LOCATED IN ELECTRICAL ROOM.
4. PROVIDE POWER CONNECTIONS FOR WASHER AND DRYER HOOKUP IN ONE OF THE INDICATED ROOMS. POWER CONNECTIONS SHALL BE PROVIDED FROM EXISTING PANELBOARD E. PROVIDE A DEDICATED 120V, 20A POWER CIRCUIT FOR THE WASHER AND A SEPARATE 208V, 3P, 30A POWER CIRCUIT WITH A NEMA 14-30R RECEPTACLE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH THE ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE 120V POWER CIRCUIT FROM NEAREST PANELBOARD FOR CHEMICAL FEED SYSTEM.
6. PROVIDE AND INSTALL DEDICATED 120V, 20A POWER CIRCUITS FOR NEW DDC CONTROL PANELS. COORDINATE FINAL PANEL LOCATIONS AND QUANTITIES WITH THE MECHANICAL CONTRACTOR.
7. PROVIDE AND INSTALL 277V POWER CIRCUIT FOR COOLING TOWER HEAT TRACE.

REPLACED MECHANICAL EQUIPMENT POWER:
EXISTING MECHANICAL EQUIPMENT IS TO BE REMOVED AND REPLACED WITH NEW EQUIPMENT. CONTRACTOR SHALL RECONNECT EXISTING ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL REPLACED MECHANICAL EQUIPMENT. REFER TO MECAHNCIAL PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.

EXISTING CIRCUIT NOTE:
ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE THE BREAKERS AS SPARES.

CLASSROOM CLOCK PATHWAYS:
CLASSROOMS ARE TO RECEIVE NEW WALL MOUNTED CLOCKS. COORDINATE WITH THE TECHNOLOGY DRAWINGS FOR CONDUIT PATHWAYS AND BACKBOXES REQUIRED FOR NEW CLOCKS. CLOCKS ARE TO BE POWERED VIA LOW VOLTAGE INSTALLED BY LOW VOLTAGE INSTALLER.

SINGLE STALL RESTROOM NOTE:
COORDINATE WITH TEST AND BALANCE CONTRACTOR TO DETERMINE WHICH FANS SERVE JUST ONE SINGLE STALL RESTROOM. FOR EXHAUST FANS SERVING ONE SINGLE STALL RESTROOM, FOR EACH FAN, ELECTRICAL CONTRACTOR TO PROVIDE THE FOLLOWING: A POWER PACK (THAT IS COMBINATION 120 V TO 24 V TRANSFORMER AND A CONTACTOR) AND AN OCCUPANCY SENSOR THAT IS IN ADDITION TO ANY EXISTING LIGHTING CONTROLS. ELECTRICAL CONTRACTOR TO PROVIDE WIRING TO CONNECT POWER PACK, OCCUPANCY SENSOR AND FAN SO THAT THE OCCUPANCY SENSOR CONTROLS FAN ON/OFF (FAN TO RUN IF RESTROOM IS OCCUPIED AND TO SHUT OFF IF RESTROOMS IS UNOCCUPIED). REFER TO DETAIL 2 ON SHEET MEP7.11 FOR MORE INFORMATION.

CRAWLSPACE MOTORIZED DAMPERS:
PROVIDE 120V 20A POWER CIRCUIT TO 120V/24V TRANSFORMER FOR CRAWLSPACE DAMPERS FROM PANELBOARD A2. COORDINATE DAMPER LOCATIONS WITH MECHANICAL CONTRACTOR.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

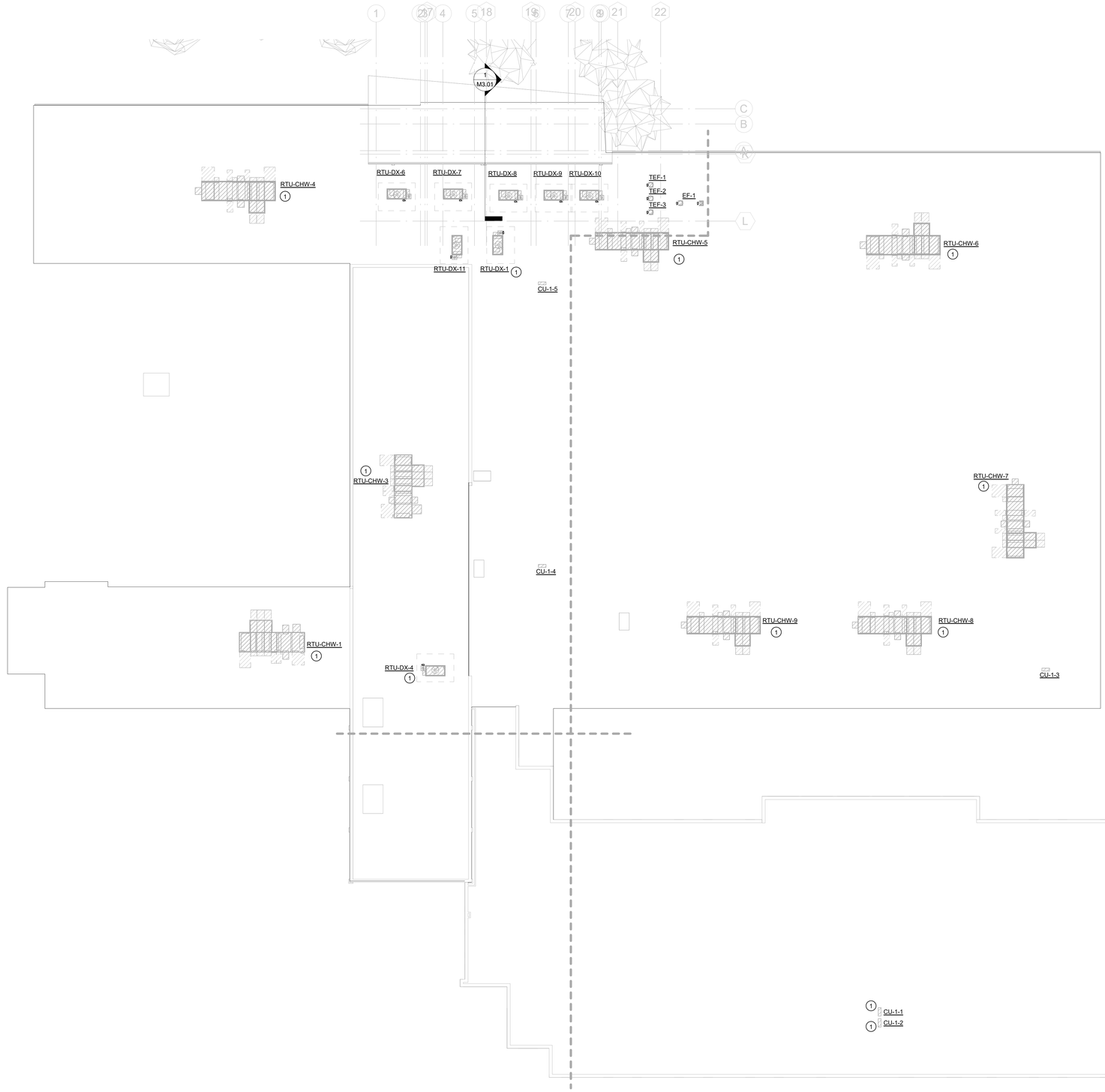
KEYPLAN



Sheet Title
ELECTRICAL PLAN - OVERALL

Sheet Number
E2.01

1 ELECTRICAL PLAN - OVERALL
1/16" = 1'-0"



1 ROOF LEVEL - ELECTRICAL PLAN
1/16" = 1'-0"

KEYED NOTES - SHEET E2.02

1 EXISTING MECHANICAL EQUIPMENT IS TO BE REMOVED AND REPLACED WITH NEW EQUIPMENT. ELECTRICAL CONTRACTOR SHALL RECONNECT EXISTING CIRCUIT BREAKER WITH NEW FEEDERS PULLED WITHIN THE EXISTING CONDUIT TO ASSOCIATED REPLACED MECHANICAL EQUIPMENT. INTENT IS FOR EXISTING POWER CIRCUIT TO BE REUSED FOR NEW EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR TO CONFIRM NEW EQUIPMENT IS CAPABLE OF BEING FED WITH EXISTING POWER CIRCUIT.

REPLACED MECHANICAL EQUIPMENT POWER:
EXISTING MECHANICAL EQUIPMENT IS TO BE REMOVED AND REPLACED WITH NEW EQUIPMENT. CONTRACTOR SHALL RECONNECT EXISTING ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL REPLACED MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.

RELOCATED MECHANICAL EQUIPMENT POWER:
CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.

ROOF HEAT TRACE POWER:
PROVIDE AND INSTALL 277V POWER CIRCUIT FOR CHW PIPING HEAT TRACE. POWER CIRCUITS SHALL BE 40A, 277V WITH 2#8, #10G, 3/4"C FEEDERS. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR POWER CONNECTION LOCATIONS.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

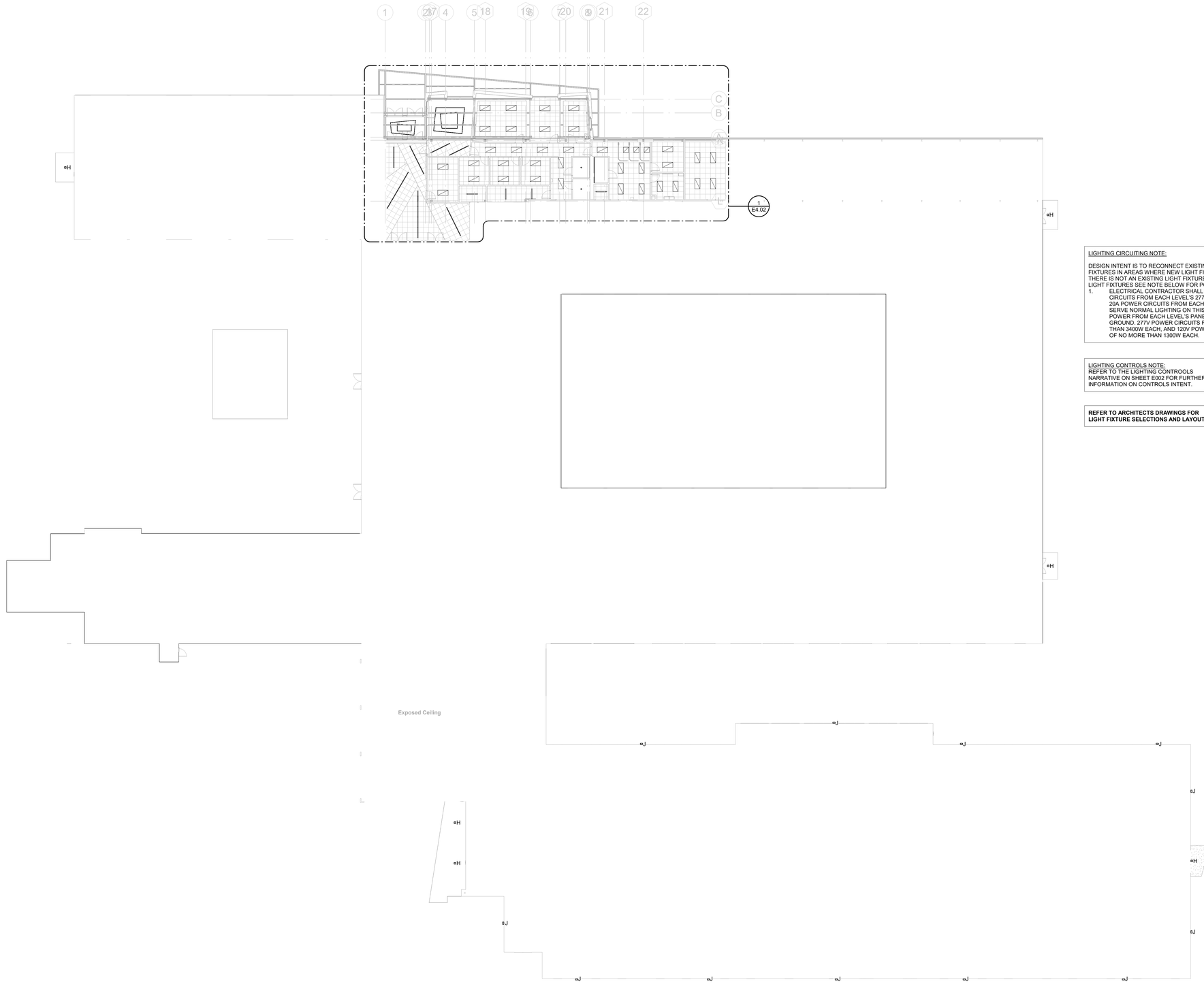
Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN



Sheet Title
ELECTRICAL PLAN - ROOF LEVEL

Sheet Number
E2.02



1 LIGHTING PLAN - OVERALL
1/16" = 1'-0"

LIGHTING CIRCUITING NOTE:

DESIGN INTENT IS TO RECONNECT EXISTING LIGHTING POWER CIRCUIT TO NEW LIGHT FIXTURES IN AREAS WHERE NEW LIGHT FIXTURES ARE INSTALLED. IN THE CASE THAT THERE IS NOT AN EXISTING LIGHT FIXTURE CIRCUIT CAPABLE OF BEING USED FOR NEW LIGHT FIXTURES SEE NOTE BELOW FOR POWER CIRCUITING GUIDELINES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 277V, 1PHASE, 20A POWER CIRCUITS FROM EACH LEVEL'S 277/480V LIGHTING PANELBOARD, AND 120V, 1 PHASE, 20A POWER CIRCUITS FROM EACH LEVEL'S 120/208V LIGHTING PANELBOARD TO SERVE NORMAL LIGHTING ON THIS SHEET, UNLESS OTHERWISE NOTED. PROVIDE POWER FROM EACH LEVEL'S PANELBOARD VIA 3/4" CONDUIT WITH 2#10 AND #10 GROUND. 277V POWER CIRCUITS FOR LIGHTING SHALL HAVE A LOAD OF NO MORE THAN 3400W EACH, AND 120V POWER CIRCUITS FOR LIGHTING SHALL HAVE A LOAD OF NO MORE THAN 1300W EACH.

LIGHTING CONTROLS NOTE:
REFER TO THE LIGHTING CONTROOLS NARRATIVE ON SHEET E002 FOR FURTHER INFORMATION ON CONTROLS INTENT.

REFER TO ARCHITECTS DRAWINGS FOR LIGHT FIXTURE SELECTIONS AND LAYOUT.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN



Sheet Title
LIGHTING PLAN - OVERALL

Sheet Number
E3.01

KEYED NOTES - SHEET E4.01

1 PROVIDE AND INSTALL JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR MOUNTING TRANSFORMER FOR LAVATORY FAUCET. EXTEND LOW VOLTAGE DOWN TO EACH FIXTURE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE TRANSFORMER.

2 PLACEHOLDER LOCATION FOR FIRE ALARM ANNUNCIATOR PANEL (FAA). THE LICENSED FIRE ALARM CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND NEED FOR FAA PANELS REQUIRED BY LOCAL CODE AND AHJ. THE FIRE ALARM CONTRACTOR SHALL COORDINATE THE FAA LOCATION WITH THE ARCHITECT.

3 PLACEHOLDER LOCATION SHOWN FOR REFERENCE ONLY. LICENSED FIRE ALARM CONTRACTOR SHALL DETERMINE THE EXACT LOCATION FOR FIRE ALARM CONTROL PANEL.

4 COORDINATE EXACT LOCATION OF WIREWAY WITH FINAL DESK LOCATION PRIOR TO ROUGH-IN. FRONT OFFICE RECEPTION DESK'S UNDERCOUNTER CONDUIT ROUTING TO BE COORDINATED WITH THE DESK PRIOR TO ROUGH-IN.

KEYED NOTES - SHEET E4.01

5 PROVIDE NEW 277/480V SURFACE MOUNTED PANELBOARD WITH A MCB OF 150A. PANELBOARD IS TO BE POWERED FROM A NEW 150A CIRCUIT BREAKER LOCATED IN SWITCHBOARD MSB-HA LOCATED IN MECHANICAL ROOM 150.

6 PROVIDE NEW 120/208V SURFACE MOUNTED PANELBOARD WITH A MCB OF 150A. PANELBOARD IS TO BE POWERED FROM A NEW 150A CIRCUIT BREAKER LOCATED IN SWITCHBOARD MSB-LA LOCATED IN MECHANICAL ROOM 150.

7 CRAWLSPACE EXHAUST FAN LOCATED BELOW THIS AREA IN THE CRAWLSPACE. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION.

8 EXISTING HVAC EQUIPMENT TO BE RELOCATED. ELECTRICAL CONTRACTOR SHALL RELOCATE ALL ELECTRICAL CONNECTIONS ASSOCIATED WITH THIS EQUIPMENT PER POWER NOTES 'FF' AND 'HH' ON SHEET E001.

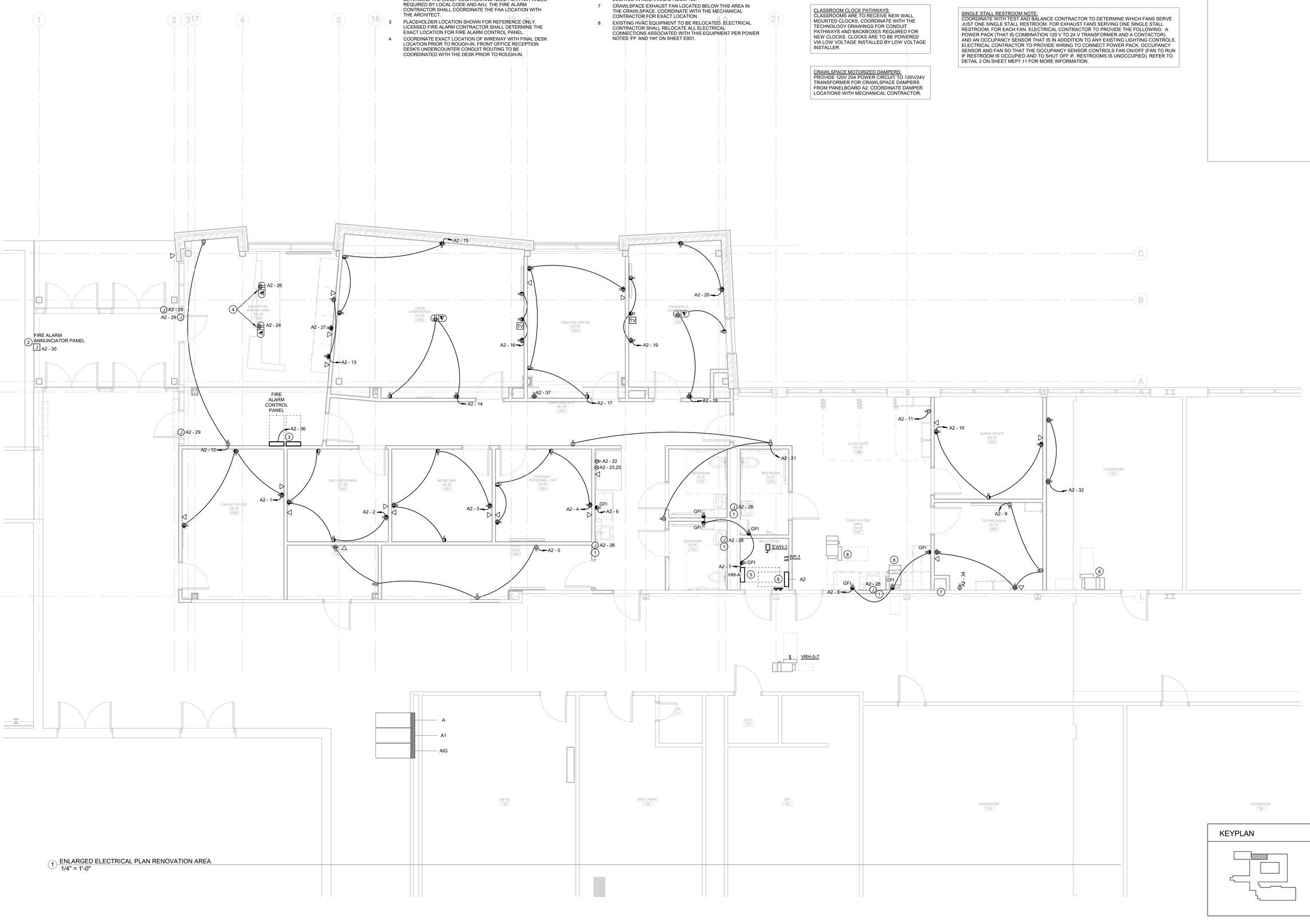
REPLACED MECHANICAL EQUIPMENT POWER:
EXISTING MECHANICAL EQUIPMENT IS TO BE REMOVED AND REPLACED WITH NEW EQUIPMENT. CONTRACTOR SHALL RECONNECT EXISTING ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL REPLACED MECHANICAL EQUIPMENT. REFER TO MECAHNCIAL PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.

EXISTING CIRCUIT NOTE:
ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE THE BREAKERS AS SPARES.

CLASSROOM CLOCK PATHWAYS:
CLASSROOMS ARE TO RECEIVE NEW WALL MOUNTED CLOCKS. COORDINATE WITH THE TECHNOLOGY DRAWINGS FOR CONDUIT PATHWAYS AND BACKBOXES REQUIRED FOR NEW CLOCKS. CLOCKS ARE TO BE POWERED VIA LOW VOLTAGE INSTALLED BY LOW VOLTAGE INSTALLER.

SINGLE STALL RESTROOM NOTE:
COORDINATE WITH TEST AND BALANCE CONTRACTOR TO DETERMINE WHICH FANS SERVE JUST ONE SINGLE STALL RESTROOM. FOR EXHAUST FANS SERVING ONE SINGLE STALL RESTROOM, FOR EACH FAN, ELECTRICAL CONTRACTOR TO PROVIDE THE FOLLOWING: A POWER PACK (THAT IS COMBINATION 120 V TO 24 V TRANSFORMER AND A CONTACTOR) AND AN OCCUPANCY SENSOR THAT IS IN ADDDITION TO ANY EXISTING LIGHTING CONTROLS. ELECTRICAL CONTRACTOR TO PROVIDE WIRING TO CONNECT POWER PACK, OCCUPANCY SENSOR AND FAN SO THAT THE OCCUPANCY SENSOR CONTROLS FAN ON/OFF (FAN TO RUN IF RESTROOM IS OCCUPIED AND TO SHUT OFF IF RESTROOMS IS UNOCCUPIED). REFER TO DETAIL 2 ON SHEET MEP7.11 FOR MORE INFORMATION.

CRAWLSPACE MOTORIZED DAMPERS:
PROVIDE 120V 20A POWER CIRCUIT TO 120V/24V TRANSFORMER FOR CRAWLSPACE DAMPERS FROM PANELBOARD A2. COORDINATE DAMPER LOCATIONS WITH MECHANICAL CONTRACTOR.



1 ENLARGED ELECTRICAL PLAN RENOVATION AREA
1/4" = 1'-0"

KEYPLAN

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

D. SCOTT BROWN
89097
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

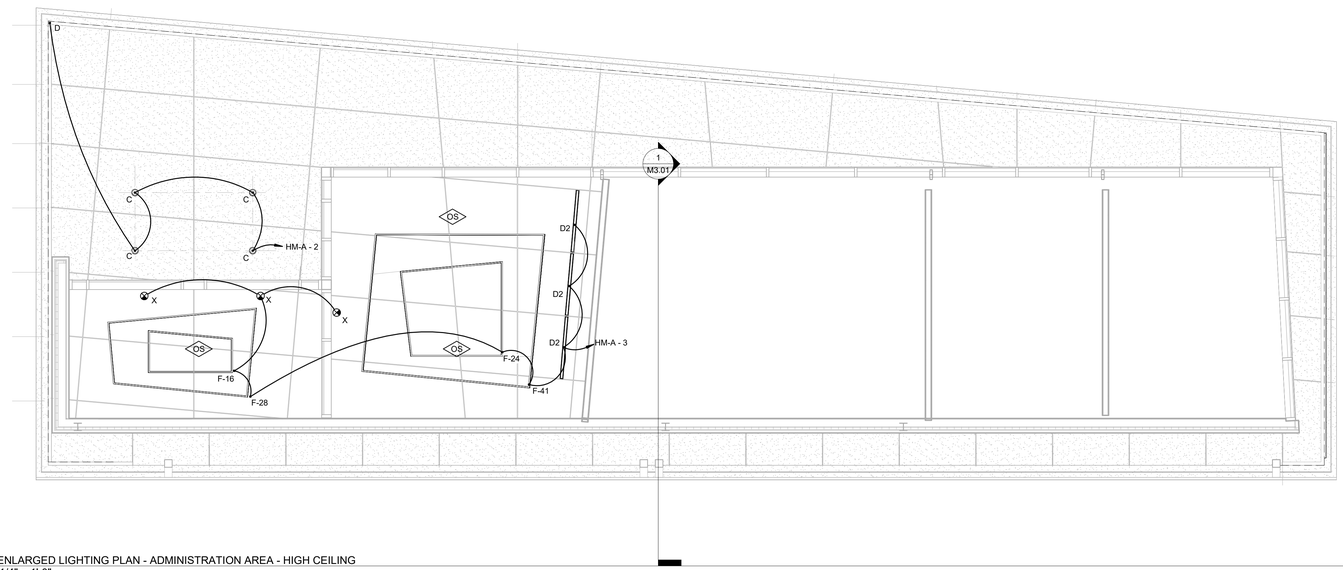
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

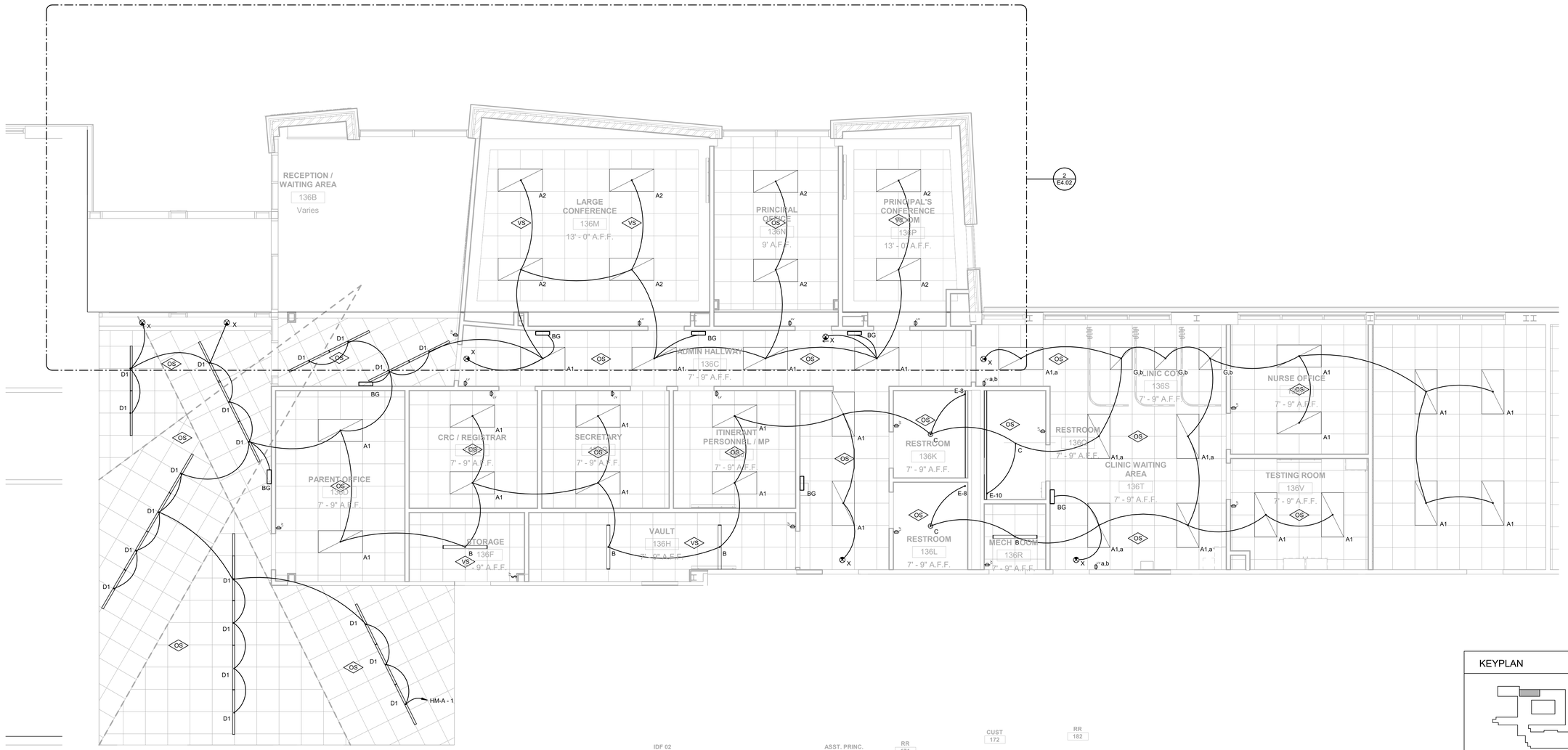
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRICAL ENLARGED PLAN

Sheet Number
E4.01



2 ENLARGED LIGHTING PLAN - ADMINISTRATION AREA - HIGH CEILING
1/4" = 1'-0"



1 ENLARGED LIGHTING PLAN - ADMINISTRATION AREA
1/4" = 1'-0"

LIGHTING CIRCUITING NOTE:

DESIGN INTENT IS TO RECONNECT EXISTING LIGHTING POWER CIRCUIT TO NEW LIGHT FIXTURES IN AREAS WHERE NEW LIGHT FIXTURES ARE INSTALLED. IN THE CASE THAT THERE IS NOT AN EXISTING LIGHT FIXTURE CIRCUIT CAPABLE OF BEING USED FOR NEW LIGHT FIXTURES SEE NOTE BELOW FOR POWER CIRCUITING GUIDELINES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 277V, 1PHASE, 20A POWER CIRCUITS FROM EACH LEVEL'S 277/480V LIGHTING PANELBOARD, AND 120V, 1 PHASE, 20A POWER CIRCUITS FROM EACH LEVEL'S 120/208V LIGHTING PANELBOARD TO SERVE NORMAL LIGHTING ON THIS SHEET. UNLESS OTHERWISE NOTED, PROVIDE POWER FROM EACH LEVEL'S PANELBOARD V/A 3/4" CONDUIT WITH 2#10 AND #10 GROUND. 277V POWER CIRCUITS FOR LIGHTING SHALL HAVE A LOAD OF NO MORE THAN 3400W EACH, AND 120V POWER CIRCUITS FOR LIGHTING SHALL HAVE A LOAD OF NO MORE THAN 1300W EACH.

LIGHTING CONTROLS NOTE:
REFER TO THE LIGHTING CONTROOLS NARRATIVE ON SHEET E002 FOR FURTHER INFORMATION ON CONTROLS INTENT.

REFER TO ARCHITECTS DRAWINGS FOR LIGHT FIXTURE SELECTIONS AND LAYOUT.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

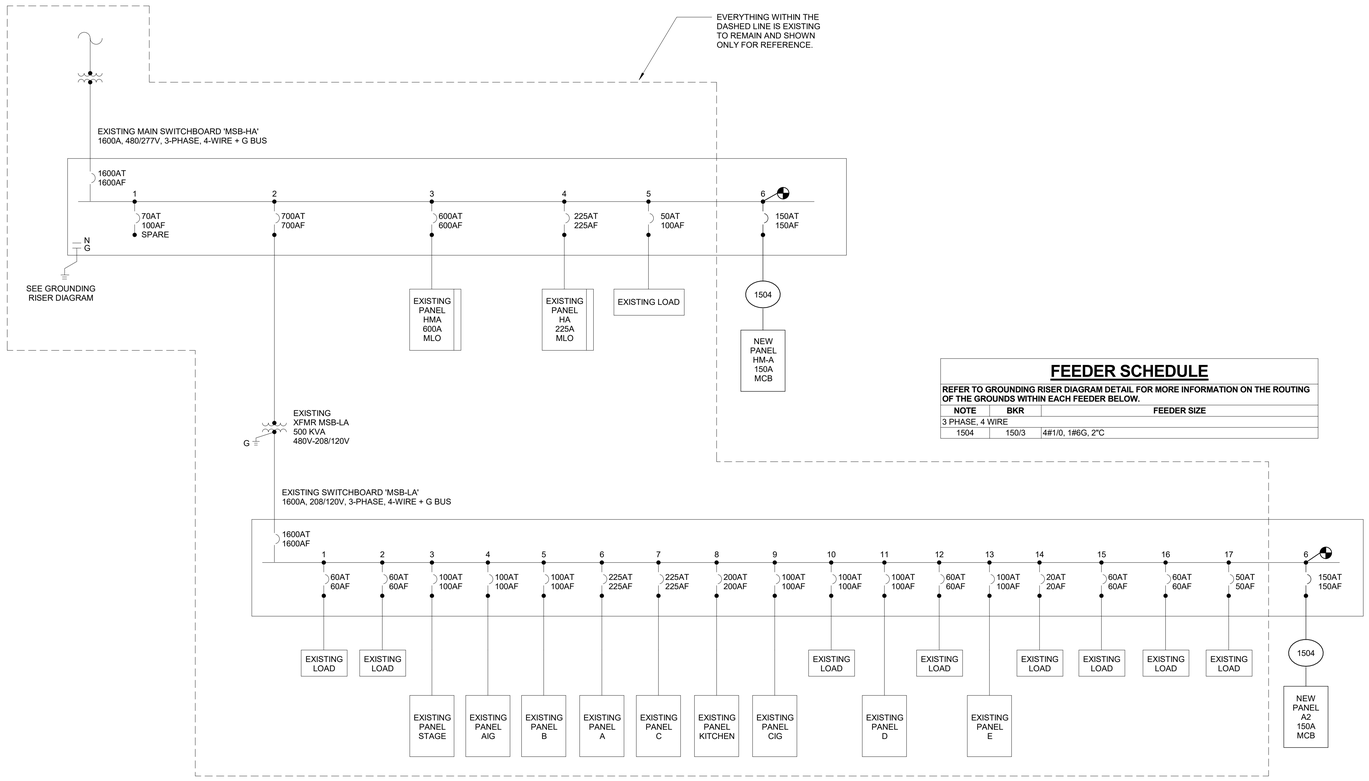
© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN

Sheet Title
ELECTRICAL
ENLARGED PLAN

Sheet Number
E4.02

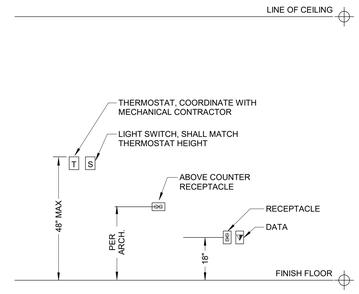


1 ONE-LINE DIAGRAM
NOT TO SCALE

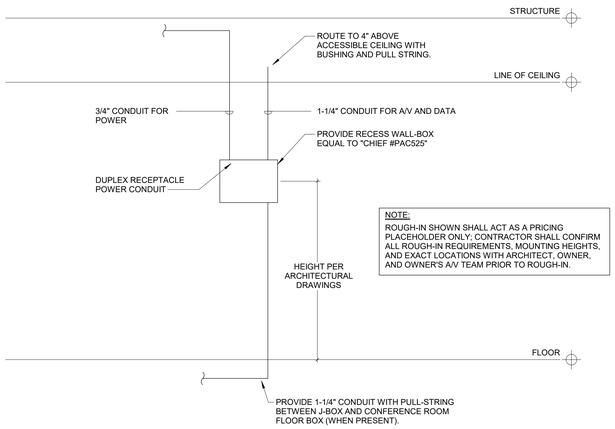
FEEDER SCHEDULE

REFER TO GROUNDING RISER DIAGRAM DETAIL FOR MORE INFORMATION ON THE ROUTING OF THE GROUNDS WITHIN EACH FEEDER BELOW.

NOTE	BKR	FEEDER SIZE
3 PHASE, 4 WIRE		
1504	150/3	4#1/0, 1#6G, 2"C



2 TYPICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



3 TV ROUGH-IN DETAIL - LARGE BACKBOX
NOT TO SCALE

FLOOR RECEPTACLE QUANTITY IN A MEETING ROOM

ROOM AREA (SQFT)	MINIMUM FLOOR RECEPTACLES REQUIRED
AREA < 215	NONE *REQUIRED**
215 - 322.5	1
322.5 - 537.5	2
537.5 - 752.5	3
752.5 - 967.5	4
967.5 - 1000	5
AREA > 1000	NONE *REQUIRED**

*FLOOR RECEPTACLES ARE STILL ALLOWED, BUT THE NATIONAL ELECTRIC CODE DOES NOT REQUIRE A MINIMUM AMOUNT.

WALL RECEPTACLE QUANTITY IN A MEETING ROOM

ROOM PERIMETER (FT)	MINIMUM WALL RECEPTACLES REQUIRED
PERIMETER < 12	1
12 - 24	2
24 - 36	3
36 - 48	4
48 - 60	5
60 - 72	6
72 - 84	7
84 - 96	8
96 - 108	9
108 - 120	10
120 - 132**	11
132 - 144**	12
144 - 156**	13
156 - 168**	14

**CHECK YOUR TOTAL ROOM AREA. IF IT IS OVER 1000 SQFT, THIS CODE DOES NOT APPLY. WALL RECEPTACLES ARE STILL ALLOWED, BUT THE NATIONAL ELECTRIC CODE DOES NOT REQUIRE A MINIMUM AMOUNT.

210.71 Meeting Rooms (2017 NEC) and 210.65 Meeting Rooms (2020 NEC)

(A) General. Each meeting room of not more than 93 m2 (1000 ft2) in other than dwelling units shall have outlets for nonlocking-type, 125-volt, 15- or 20-ampere receptacles. The outlets shall be installed in accordance with 210.65(B) [210.71 for 2017 NEC]. Where a room or space is provided with movable partition(s), each room size shall be determined with the partition in the position that results in the smallest size meeting room.

Informational Note No. 1: For the purposes of this section, meeting rooms are typically designed or intended for the gathering of seated occupants for such purposes as conferences, deliberations, or similar purposes, where portable electronic equipment such as computers, projectors, or similar equipment is likely to be used.
Informational Note No. 2: Examples of rooms that are not meeting rooms include auditoriums, schoolrooms, and coffee shops.

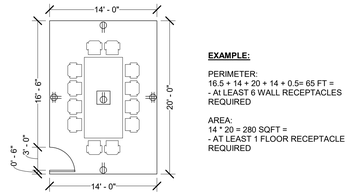
(B) Receptacle Outlets Required. The total number of receptacle outlets, including floor outlets and receptacle outlets in fixed furniture, shall not be less than as determined in (1) and (2).

(1) Receptacle Outlets in Fixed Walls. The required number of receptacle outlets shall be determined in accordance with 210.52(A) (1) through (A)(4). These receptacle outlets shall be permitted to be located as determined by the designer or building owner.
210.52(A)(1) Spacing. Receptacles shall be installed such that no point measured horizontally along the floor line of any wall space is more than 1.8 m (6 ft) from a receptacle outlet.
210.52(A)(2) Wall Space. As used in this section, a wall space shall include the following:
(1) Any space 600 mm (2 ft) or more in width (including space measured around corners) and unbroken along the floor line by doorways and similar openings, fireplaces, and fixed cabinets that do not have countertops or similar work surfaces
(2) The space occupied by fixed panels in walls, excluding sliding panels
(3) The space afforded by fixed room dividers, such as freestanding bar-type counters or railings
210.52(A)(3) Floor Receptacles. Receptacle outlets in or on floors shall not be counted as part of the required number of receptacle outlets unless located within 450 mm (18 in.) of the wall.
210.52(A)(4) Countertop and Similar Work Surface Receptacle Outlets. Receptacles installed for countertop and similar work surfaces as specified in 210.52(C) shall not be considered as the receptacle outlets required by 210.52(A).

(2) Floor Receptacle Outlets. A meeting room with any floor dimension that is 3.7 m (12 ft) or greater in any direction and that has a floor area of at least 20 m2 (215 ft2) shall have at least one floor receptacle outlet, or at least one floor outlet to service receptacle(s), located at a distance not less than 1.8 m (6 ft) from any fixed wall for each 20 m2 (215 ft2) or major portion of floor space.

NEC Commentary: These requirements apply to meeting rooms in a variety of occupancies, including office buildings and hotels. For most rooms in commercial buildings, there are no NEC requirements for spacing of wall and countertop receptacles. However, 210.65 recognizes that there is a need to provide receptacles to facilitate meetings in which attendees will be using computers. This section, which utilizes the same receptacle requires used in swelling units as a basis for the spacing of meeting room receptacles, was revised for the 2020 edition to apply to non-rectangular meeting rooms, such as those that are round. Means of compliance include floor receptacle outlets and floor outlets supplying hard-wired furniture that contains receptacles. The 6-foot distance from fixed walls is to allow for emergency egress without occupants having to cross over flexible cords.

Common Code Official Interpretations - Confirm with local Authority Having Jurisdiction (AHJ):
- We can locate wall receptacles wherever we like in the meeting room; we just have to meet the quantity based on 12ft OC. For example, if there is a glass wall all the receptacles can be located the other 3 walls.
- A quadraplex receptacle counts as (2) wall or floor receptacles.



EXAMPLE:

PERIMETER:
16.5 + 14 + 20 + 14 + 0.5= 65 FT =
- At LEAST 6 WALL RECEPTACLES REQUIRED

AREA:
14 * 20 = 280 SQFT =
- AT LEAST 1 FLOOR RECEPTACLE REQUIRED

4 MEETING ROOM RECEPTACLES REQUIRED
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

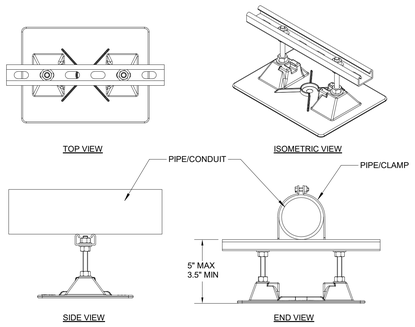
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

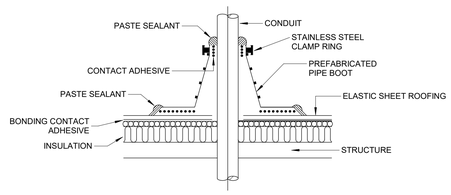
Sheet Title
ELECTRICAL DETAILS - GENERAL

Sheet Number
E6.01



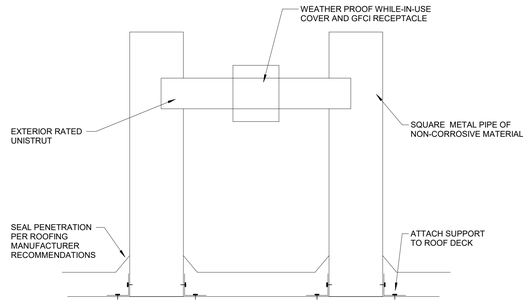
ADDITIONAL INFORMATION:
-ADJUSTABLE HEIGHT UP TO 5"
-SPACING NOT TO EXCEED 10' ON CENTER.
-ALL METAL PARTS TO BE EITHER STAINLESS STEEL OR HOT-DIP GALVANIZED

1 CONDUIT SUPPORT ON ROOF
NOT TO SCALE



COORDINATE WITH ROOFING CONTRACTOR AND REQUIREMENTS OF ROOFING SPEC. FLASHING ON METAL ROOF BY ROOFING CONTRACTOR.

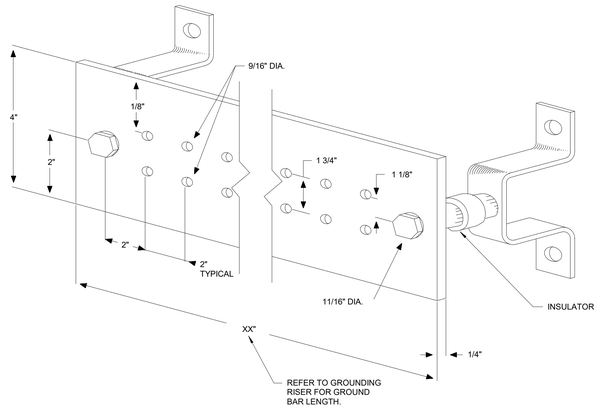
2 CONDUIT ROOF PENETRATION DETAIL
NOT TO SCALE



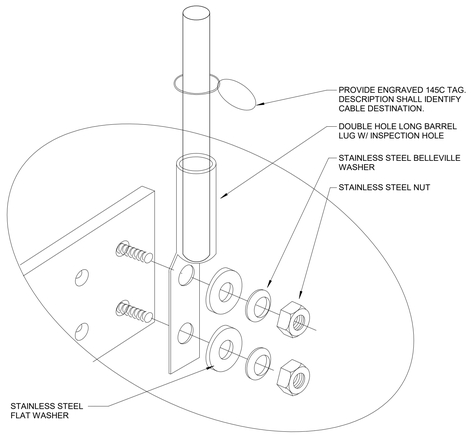
NOTES:

A. CONTRACTOR SHALL COORDINATE EXACT ROOF RECEPTACLE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DO NOT DIMENSION OFF OF ELECTRICAL PLANS.
B. DETAIL INDICATES ELECTRICAL REQUIREMENTS ONLY. REFER TO ARCHITECTURAL DETAILS ROOF MANUFACTURER REQUIREMENTS FOR ADDITIONAL INFORMATION.
C. DO NOT MOUNT ROOF RECEPTACLES DIRECTLY TO PARAPET WALLS.
D. DO NOT MOUNT ROOF RECEPTACLES WITHIN 10 FT OF THE EDGE OF THE ROOF TO AVOID PROVIDING PERMANENT FALL PROTECTION.
E. CONTRACTOR SHALL ALSO REFER TO THE "CONDUIT ROOF PENETRATION DETAIL" AND "CONDUIT SUPPORT ON ROOF DETAIL" FOR MORE INFORMATION.
F. A PREFABRICATED ROOF RECEPTACLE PEDESTAL ASSEMBLY IS ALSO AN ACCEPTABLE SOLUTION FOR ALL ROOF RECEPTACLES IN LIEU OF THE FIELD BUILT UP DETAIL ABOVE. BASIS OF DESIGN FOR A PREFABRICATED PEDESTAL: MAPA PRODUCTS "MPX-20-G:36/12-D-SA 36 INCH UTILITY PEDESTAL WITH WEATHER PROOF WHILE-IN-USE GFCI RECEPTACLE AND ROOF DECK FLANGE" OR EQUAL. IF USING A PREFABRICATED PEDESTAL, ALL OFF THE NOTES ABOVE STILL APPLY. ALSO INSTALL PER PEDESTAL MANUFACTURER INSTRUCTIONS, ROOF MANUFACTURER REQUIREMENTS, AND ALL APPLICABLE CODE REQUIREMENTS.

3 ROOF RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



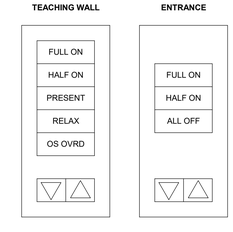
4 GROUND BUS BAR
NOT TO SCALE



NOTES:

1. ALL CONNECTIONS TO BE DOUBLE COMPRESSION (CRIMP) TYPE. NO MECHANICAL CONNECTIONS, MINIMUM 4 CRIMPS FOR DOUBLE COMPRESSION FITTING.

5 GROUND BUS BAR CONNECTION
NOT TO SCALE



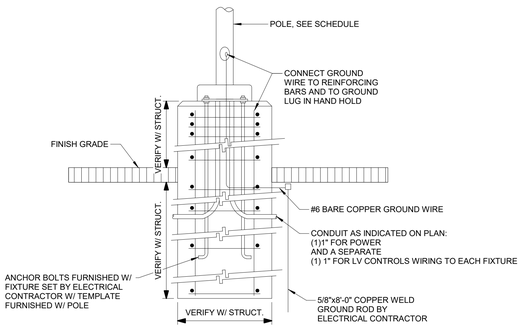
SCENE SEQUENCE OF OPERATIONS:

- FULL ON
  1. ALL ZONES @ 100% OUTPUT
- HALF ON
  1. ALL ZONES @ 50% OUTPUT
- PRESENT
  1. TEACHING WALL ZONE(S) @ 15% OUTPUT
  2. GENERAL LIGHTING ZONE(S) @ 70% OUTPUT
- RELAX
  1. ALL ZONES @ 70% OUTPUT
- RAISE/LOWER SHALL MANUALLY RAISE/ DIM THE LIGHTS OF THE SET SCENE

NOTES:

- BASIS OF DESIGN IS AROUND ACUITY WALL-STATION. TEACHING WALL SHALL BE 5-BUTTON SCENE SELECTION AND RAISE/ LOWER. ENTRANCE SHALL BE 3-BUTTON SCENE SELECTION AND RAISE/ LOWER.
- 'OS OVRD' + RAISE/LOWER SHALL BE A MANUAL OVERRIDE OF THE OCCUPANCY SENSOR TIME-OUT TO MEET CHPS EQ 13.2.6 REQUIREMENTS.
- MANUFACTURER SHALL PROVIDE WALL-STATION WITH PERMANENT ENGRAVINGS.
- EXACT LIGHT LEVELS SHALL BE SET IN THE FIELD WITH THE OWNER FOR EACH OF THE TYPICAL SCENES.

6 CLASSROOM LIGHTING CONTROL KEYPAD
NOT TO SCALE



NOTES:

A. CONTRACTOR SHALL COORDINATE EXACT LIGHTING POLE LOCATIONS WITH NEW LANDSCAPE DRAWINGS PRIOR TO INSTALLATION. SHIFT LIGHT POLE FIXTURES AND/OR TREE TO AVOID CONFLICTS.
B. CONTRACTOR SHALL VERIFY CONCRETE DEPTH AND STEEL REQUIREMENTS WITH STRUCTURAL DRAWINGS.
C. DETAIL INDICATEDS ELECTRICAL REQUIREMENTS ONLY, REFER TO ARCHITECTS DETAIL FOR ADDITIONAL INFORMATION.

7 POLE BASE DETAIL
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRICAL DETAILS - GENERAL

Sheet Number
E6.02

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	VOLT	WATTS	DIMMING	REMARKS
A1	LED 2X4 TROFFER	LITHONIA LIGHTING	STAK 2X4 4000LM 90CRI 40K COL MIN1 EZT MVOLT	LED	277 V	33 W	0-10V	
A2	LED 2X4 TROFFER	LITHONIA LIGHTING	STAK 2X4 7200LM 90CRI 40K COL MIN1 EZT MVOLT	LED	277 V	55 W	0-10V	
B	LED INDUSTRIAL STRIP	LITHONIA LIGHTING	CLX L48 4000LM SEF FDL MVOLT GZ1 40K 90CRI HC36	LED	277 V	26 W	0-10V	
BG	LED EMERGENCY BUG EYE	LITHONIA LIGHTING	EUC2	LED	277 V	1 W		SEE NOTE 6
C	LED 4" RECESSED DOWNLIGHT, WITH INTEGRAL EMERGENCY BATTERY	LITHONIA LIGHTING	LND4 40/05 LO4 TRIM LSS TRW MVOLT GZ10 90CRI E10WCP	LED	277 V	6 W	0-10V	
D	2" RECESSED LINEAR LED, WET LOCATION 4.9W/FT	MARK ARCHITECTURAL LIGHTING	ACL5 CUSTOM LENGTH CUSTOM INTERSECTIONS LS 40K 90CRI U HE MOUNTING FINISH DIMMING Q WET LOCATION	LED	277 V	691 W	0-10V	SEE NOTE 7
D1	1" RECESSED LED LINEAR 2.06W/FT	MARK ARCHITECTURAL LIGHTING	SL1L LOP LENGTH TG 90 CRI 40K 200LMF MIN1 EGLD MVOLT TRIM FINISH ZT	LED	277 V	8 W	0-10V	SEE NOTE 1
D2	1" RECESSED LED LINEAR, 5.08W/FT	MARK ARCHITECTURAL LIGHTING	SL1L LOP LENGTH TG 90 CRI 40K 600LMF WW MIN1 EGLD MVOLT TRIM FINISH ZT	LED	277 V	20 W	0-10V	SEE NOTE 1
E-8	HIGH PERFORMANCE LED PERIMETER SLOT, 3.5W/FT	FINELITE BETTER LIGHTING	HP 2 WS 4D LENGTH S 940 96LG 277 SC FC-10% TR SF END CONDITIONS SW	LED	277 V	28 W	0-10V	
E-10	HIGH PERFORMANCE LED PERIMETER SLOT, 3.5W/FT	FINELITE BETTER LIGHTING	HP 2 WS 4D LENGTH S 940 96LG 277 SC FC-10% TR SF END CONDITIONS SW	LED	277 V	35 W	0-10V	
F-16	MICRO QUAD II SUSPSENDED 13.5W/FT	BETA-CALCO INC.	9839 LENGTH/WIDTH D40CR90 N40CR90 SUSPENSION D1 BL	LED	277 V	216 W	0-10V	SEE NOTE 3
F-24	MICRO QUAD II SUSPSENDED 13.5W/FT	BETA-CALCO INC.	9839 LENGTH/WIDTH D40CR90 N40CR90 SUSPENSION D1 BL	LED	277 V	324 W	0-10V	SEE NOTE 3
F-28	MICRO QUAD II SUSPSENDED 13.5W/FT	BETA-CALCO INC.	9839 LENGTH/WIDTH D40CR90 N40CR90 SUSPENSION D1 BL	LED	277 V	378 W	0-10V	SEE NOTE 3
F-41	MICRO QUAD II SUSPSENDED 13.5W/FT	BETA-CALCO INC.	9839 LENGTH/WIDTH D40CR90 N40CR90 SUSPENSION D1 BL	LED	277 V	554 W	0-10V	SEE NOTE 3
G	LED 2X2 TROFFER	LITHONIA LIGHTING	STAK 2X2 2000LM 90CRI 40K COL MIN1 EZT MVOLT	LED	277 V	17 W	0-10V	
H	EXTERIOR SURFACE MOUNT CEILING DOWNLIGHT	LUMINIS	SN820C-XX-K40-VOLTAGE-BZT-MOUNT	LED	277 V	23 W	0-10V	SEE NOTE 5
J	WALL MOUNT LED AREA LIGHT, WITH INTEGRAL BATTERY BACKUP	LITHONIA LIGHTING	WDGE2-LED-P3-40K-90CRI-VF-MVOLT-MOUNTING-E20WC-DMG-DDBXD	LED	277 V	32 W	0-10V	SEE NOTE 5
K	POLE MOUNTED LED AREA LIGHT	LITHONIA LIGHTING	DSX1 OPTICS 40K 90CRI DISTRIBUTION MVOLT MOUNTING NLTAIR2 PIRHN DDBXD	LED	277 V	142 W	0-10V	
K-EXST	POLE MOUNTED LED AREA LIGHT	LITHONIA LIGHTING	DSX1 OPTICS 40K 90CRI DISTRIBUTION MVOLT MOUNTING NLTAIR2 PIRHN DDBXD	LED	277 V	142 W	0-10V	SEE NOTE 5
X	EDGE LIT EXIT SIGN	LITHONIA LIGHTING	EDGR	LED	277 V	5 W		SEE NOTE 2

GENERAL NOTES:

A CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES IN SPECIFIC CEILING PER LOCATION OF FIXTURES.
B CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES (NEW OR SUBSTITUTES).
C CONTRACTOR SHALL COORDINATE FINISH, MOUNTING HEIGHTS (IF SUSPENDED), LENSING, AND OTHER AESTHETIC FEATURES OF ALL FIXTURES WITH ARCHITECT.
D CONTRACTOR SHALL PROVIDE INSTALLATION AND MATERIALS FOR AN ADDITIONAL 5 EXIT SIGNS OR 10%, WHICHEVER IS GREATER, AS ATTIC STOCK FOR FUTURE USE. ATTIC STOCK EXIT SIGN SPECIFICATION SHALL MATCH ALL THE OTHER EXIT SIGNS ON THIS PROJECT, AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE.
E ALL LIGHT FIXTURES MUST BE EITHER ENERGY STAR OR DLC APPROVED PER DISD TECHNICAL DESIGN GUIDELINES.
F ALL LIGHTING MUST BE 4000K PER DISD TECHNICAL DESIGN GUIDELINES.
G ALL LIGHT FIXTURES SHALL HAVE LIGHT SOURCES WITH A CRI OF 85 OR GREATER.
H ALL LIGHT FIXTURES SHALL BE ROHS COMPLIANT FOLLOWING THE MOST CURRENT EUROPEAN ROHS REGULATIONS, INCLUDING ALL APPLICABLE EXEMPTIONS.
I ALL LED FIXTURES SHALL MAINTAIN AT LEAST 70% OF THEIR INITIAL LIGHT OUTPUT (L70) AT 100,000 HOURS OF OPERATION AND ACHIEVE AN INITIAL EFFICACY OF AT LEAST 50 LUMENS PER WATT.
J IN ALL SCHOOL CLASSROOMS AND EDUCATIONAL LEARNING SPACES, THE MEASURED PERCENT FLICKER FROM LED INTEGRATED SYSTEMS (INCLUDING DRIVER, LED ARRAY, DIMMING CONTROLS, AND DAYLIGHT SENSOR) SHALL BE 10% OR LESS ACROSS THE ENTIRE DIMMING RANGE.

NOTES:

1 PROVIDE CONTINUOUS LENGTH AS SHOWN ON PLANS. CONFIRM EXACT LENGTH WITH ARCHITECTURAL DETAILS AND ARCHITECT. PROVIDE ALL ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.
2 PROVIDE NUMBER OF FACES AND CHEVRONS PER PLANS.
3 COORDINATE MOUNTING, LENGTH, AND OTHER DETAILS WITH ARCHITECT AS FIXTURE IS INCORPORATED INTO ARCHITECTURAL FEATURE.
4 FIXTURE REQUIRES REMOTE TRANSFORMER/ DRIVER. CONTRACTOR SHALL SIZE AND SPACE REMOTE TRANSFORMERS/ DRIVERS TO ELIMINATE VOLTAGE DROP. TRANSFORMERS/ DRIVERS SHALL BE VISUALLY AND ACOUSTICALLY CONCEALED.
5 LIGHT FIXTURE IS TO REPLACE EXISTING FIXTURE. CONTRACTOR TO CONFIRM VOLTAGE AND MOUNTING MATCH WITH THE EXISTING FIXTURE PRIOR TO PURCHASE.
6 FIXTURE TO BE MOUNTED AT 8'-0" AFF UNLESS NOTED OTHERWISE.
7 CUSTOM ILLUMINATED CORNERS AT INTERSECTIONS. VERIFY LENGTHS AND CORNER ANGLES. FACTORY DRAWINGS REQUIRED.

MECHANICAL EQUIPMENT POWER SCHEDULE

EQUIPMENT DESIGNATION	ELECTRICAL INFORMATION						DISCONNECT				REMARKS
	ELEC LOAD	VOLT	PHASE	OCPD RATING	PANEL	FEEDER	TYPE	SIZE	POLES	FUSE	
AC-1-1/CU-1-1	25 MCA, 31 MOCP	208	1	30	LA	2#10, #10G, 3/4"C	AC: HEAVY DUTY CU: NEMA 3R HEAVY DUTY	30	2	NF	SEE NOTE 1, 5 & 7
AC-1-2/CU-1-2	25 MCA, 31 MOCP	208	1	30	LA	2#10, #10G, 3/4"C	AC: HEAVY DUTY CU: NEMA 3R HEAVY DUTY	30	2	NF	SEE NOTE 1, 5 & 7
AC-1-3/CU-1-3	19 MCA, 25 MOCP	208	1	25	D	2#10, #10G, 3/4"C	AC: HEAVY DUTY CU: NEMA 3R HEAVY DUTY	30	2	NF	SEE NOTE 1, 5 & 7
AC-1-4/CU-1-4	19 MCA, 25 MOCP	208	1	25	C	2#10, #10G, 3/4"C	AC: HEAVY DUTY CU: NEMA 3R HEAVY DUTY	30	2	NF	SEE NOTE 1, 5 & 7
AC-1-5/CU-1-5	19 MCA, 25 MOCP	208	1	25	A1	2#10, #10G, 3/4"C	AC: HEAVY DUTY CU: NEMA 3R HEAVY DUTY	30	2	NF	SEE NOTE 1, 5 & 7
BBH-1-1	.7 KW	208	1	20	A2	2#12, #12G, 3/4"C	HEAVY DUTY	30	2	NF	
CEF-1-1	1/2 HP	120	1	20	A2	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
CWP-1	30 HP	480	3	100	MCC	4#1, #8G, 1 1/2"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7
CWP-2	30 HP	480	3	100	MCC	4#1, #8G, 1 1/2"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7
EF-1-1	5/8 HP	208	1	20	A2	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
EWH-1	12 KW	480	3	20	HM-A	4#12, #12G, 3/4"C	HEAVY DUTY NEMA 3R	30	3	NF	
RP-1	1/6 HP	120	1	20	A2	2#12, #12G, 3/4"C	MOTOR RATED SWITCH	-	-	-	SEE NOTE 6
RTU-CHW-1 - RETURN	13.82 MCA, 15 MOCP	480	3	15	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-1 - SUPPLY	26.25 MCA, 45 MOCP	480	3	45	HMA	4#6, #10G, 1"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-3 - RETURN	13.82 MCA, 15 MOCP	480	3	15	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-3 - SUPPLY	17.5 MCA, 30 MOCP	480	3	30	HMA	4#10, #10G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-4 - RETURN	11.5 MCA, 20 MOCP	480	3	20	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-4 - SUPPLY	26.25 MCA, 45 MOCP	480	3	45	HMA	4#6, #10G, 1"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-5 - RETURN	11.5 MCA, 20 MOCP	480	3	20	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-5 - SUPPLY	26.25 MCA, 45 MOCP	480	3	45	HMA	4#6, #10G, 1"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-6 - RETURN	11.5 MCA, 20 MOCP	480	3	20	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-6 - SUPPLY	26.25 MCA, 45 MOCP	480	3	45	HMA	4#6, #10G, 1"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-7 - RETURN	11.5 MCA, 20 MOCP	480	3	20	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-7 - SUPPLY	26.25 MCA, 45 MOCP	480	3	45	HMA	4#6, #10G, 1"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-8 - RETURN	11.5 MCA, 20 MOCP	480	3	20	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-8 - SUPPLY	17.5 MCA, 30 MOCP	480	3	30	HMA	4#10, #10G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-9 - RETURN	11.5 MCA, 20 MOCP	480	3	20	HMA	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-CHW-9 - SUPPLY	17.5 MCA, 30 MOCP	480	3	30	HMA	4#10, #10G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9, 11 & 12
RTU-DX-1	18 MCA, 25 MOCP	480	3	25	HM-A	4#10, #10G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9 & 12
RTU-DX-4	12 MCA, 15 MOCP	480	3	15	HM-A	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 7, 9 & 12
RTU-DX-6	18 MCA, 25 MOCP	480	3	25	HM-A	4#10, #10G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 9 & 12
RTU-DX-7	12 MCA, 15 MOCP	480	3	15	HM-A	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 9 & 12
RTU-DX-8	16 MCA, 20 MOCP	480	3	20	HM-A	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 9 & 12
RTU-DX-9	12 MCA, 15 MOCP	480	3	15	HM-A	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 9 & 12
RTU-DX-10	12 MCA, 15 MOCP	480	3	15	HM-A	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 9 & 12
RTU-DX-11	12 MCA, 15 MOCP	480	3	15	HM-A	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 9 & 12
TEF-1-1	1/20 HP	120	1	20	A2	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 10
TEF-1-2	1/20 HP	120	1	20	A2	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 10
TEF-1-3	1/20 HP	120	1	20	A2	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	SEE NOTE 10
VRH-5-7	100 VA	277	1	20	HM-A	2#12, #12G, 3/4"C	MOTOR RATED SWITCH	-	-	-	SEE NOTE 2

GENERAL NOTES (APPLIES TO ALL):

A REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
B DISCONNECT SWITCHES PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL MATCH THE AIC VALVE OF THE UPSTREAM ELECTRICAL PANEL.
C COORDINATE WITH MECHANICAL REGARDING RESPONSIBILITY OF MOTOR STARTERS, SO THAT DUPLICATE EQUIPMENT IS NOT PURCHASED.
D WHERE VARIABLE FREQUENCY DRIVES (VFDS) AND SERVICE DISCONNECTS ARE SEPARATED, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR CONNECTION TO VFD SAFETY INTERLOCK. ELECTRICAL CONTRACTOR SHALL CONNECT DISCONNECT SWITCH AUXILIARY CONTACT TO THE ASSOCIATED VFD SAFETY INTERLOCK VIA 3/4" CONDUIT WITH 2#12 AND #12G STRANDED THHN CONDUCTORS.

NOTES:

1 INDOOR AC UNIT IS POWERED FROM OUTDOOR CU UNIT. ELECTRICAL CONTRACTOR SHALL ROUTE CONDUCTORS AND CONDUIT FROM OUTDOOR CU UNIT TO CORRESPONDING INDOOR AC UNIT. COORDINATE CONDUCTOR AND CONDUIT SIZE WITH EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.
2 PROVIDE 277V CONTROLS CIRCUIT TO EACH 277V/24V CONTROLS TRANSFORMER (TRANSFORMER BY MECHANICAL CONTRACTOR). EACH TRANSFORMER SHALL FEED UP TO SIX (6) CONTROL MODULES. DO NOT EXCEED 1500VA PER 277V CONTROLS CIRCUIT. CONDUCTORS BETWEEN THE TRANSFORMERS AND THE CONTROLS SHALL BE BY MECHANICAL CONTRACTOR. REFER TO HVAC PLANS FOR EQUIPMENT LOCATIONS.
3 MECHANICAL CONTRACTOR TO PROVIDE VARIABLE FREQUENCY DRIVE (VFD) . ELECTRICAL CONTRACTOR TO INSTALL.
4 PLUMBING CONTRACTOR TO PROVIDE POWER AND ALARM PANEL AS SHOWN ON PLUMBING DETAIL SHEET(S) FOR SUMP PUMP. ELECTRICAL CONTRACTOR TO MAKE CONNECTION TO ALARM PANEL.
5 PROVIDE SEPARATE 120V POWER FOR AC UNIT LEAK DETECTION 120V/24V TRANSFORMER FROM SAME PANEL AS AC UNIT POWER.
6 PROVIDE POWER TO LEAK DETECTION AND SOLENOID VALVE FOR WATER HEATER FROM SAME CIRCUIT AS RECIRCULATION PUMP. CIRCUIT LEAK DETECTION AND SOLENOID VALVE UPSTREAM OF MOTOR RATED SWITCH FOR RECIRCULATION PUMP.
7 EXISTING MECHANICAL EQUIPMENT IS TO BE REMOVED AND REPLACED WITH NEW EQUIPMENT. ELECTRICAL CONTRACTOR SHALL RECONNECT TO EXISTING CIRCUIT BREAKER WITH NEW FEEDERS PULLED WITHIN THE EXISTING CONDUIT TO ASSOCIATED REPLACED MECHANICAL EQUIPMENT. INTENT IS FOR EXISTING POWER CIRCUIT TO BE REUSED FOR NEW EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR TO CONFIRM NEW EQUIPMENT IS CAPABLE OF BEING FED WITH EXISTING POWER CIRCUIT.
8 CIRCUIT CONVENIENCE OUTLET FROM CIRCUIT AS SHOWN ON PLANS.
9 FURNISH AND CONNECT DUCT MOUNTED SMOKE DETECTOR (INSTALLED BY MECHANICAL) TO FIRE ALARM PANEL.
10 FOR SINGLE STALL RESTROOMS SERVED BY SEPARATE EXHAUST FAN, ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL AN OCCUPANCY SENSOR AND 120V CONTROLS RELAY TO CONTROL EXHAUST FAN. THE OCCUPANCY SENSOR PROVIDED FOR EXHAUST FAN CONTROL IS IN ADDITION TO ANY LIGHTING CONTROL SENSORS LOCATED IN THE ROOM. REFER TO DETAIL 2 ON SHEET MEP7.11 FOR MORE INFORMATION.
11 PROVIDE SEPARATE 120V POWER CIRCUIT FOR AHU HOT AND CHILLED WATER VALVE CONTROL TRANSFORMER AND DUCT DAMPERS.
12 PROVIDE SEPARATE 120V POWER CIRCUIT FOR LIGHTS AND CONVENIENCE OUTLET.

Electrical Equipment Extended Warranty Schedule

Spec Section

	Product	Extended Warranty Description
Division 26 & 28 - Electrical		
260519	Electric heating cables	2 yr parts and labor
260913	Power monitoring and control	2 years of manufacturer support and software upgrades
260943	Network lighting controls	2 years parts and labor for all components; 8 years parts and labor for transient voltage surges; 10 years parts and labor for electrically held relays
262713	Electrcal metering	2 years parts and labor for all components.
263533	Power factor correction	5 years parts and labor for capacitor cells
265100	Interior lighting	5 years parts and labor for all components; 5 years parts and labor for emergency battery packs; LED Lumen modules shall be considered defective of 15% or more of the diodes have failed.
265600	Exterior lighting	5 years parts and labor for all components; 5 years parts and labor for emergency battery packs; LED Lumen modules shall be considered defective of 15% or more of the diodes have failed.
283111	Fire alarm system	2 years of manufacturer support and software upgrades

Notes:

1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.
2. Extended warranties listed above also begin at the date of substantial completion.
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRICAL SCHEDULES

Sheet Number
E7.01

PANELBOARD: A2

Mounting: SURFACE
Enclosure: NEMA 3R
A.I.C. Rating: 10,000

Volts: 120/208 Wye
Phases: 3
Wires: 4

Mains Type: MCB
Frame Rating: 150 A
MCB Rating: 150 A
Supply From: MSB-LA

	Circuit Description	Trip (amps)	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip (amps)	Circuit Description	
1	OFFICE RECEPT	20	1	2#12, #12G, 3/4"C	1080	1080					2#12, #12G, 3/4"C	1	20	CRC RECEPT	2
3	SECRETARY RECEPT	20	1	2#12, #12G, 3/4"C			1080	900			2#12, #12G, 3/4"C	1	20	ITINERANT RECEPT	4
5	STORAGE/VAULT RECEPT	20	1	2#12, #12G, 3/4"C					720	180	2#12, #12G, 3/4"C	1	20	HALLWAY RECEPT	6
7	RESTROOM RECEPT	20	1	2#12, #12G, 3/4"C	900	540					2#12, #12G, 3/4"C	1	20	CLINIC RECEPT	8
9	TESTING RECEPT	20	1	2#12, #12G, 3/4"C			720	540			2#12, #12G, 3/4"C	1	20	NURSE RECEPT	10
11	CLINIC RECEPT	20	1	2#12, #12G, 3/4"C					180	360	2#12, #12G, 3/4"C	1	20	RECEPTION RECEPT	12
13	RECEPTION RECEPT	20	1	2#12, #12G, 3/4"C	720	540					2#12, #12G, 3/4"C	1	20	CONFERENCE RECEPT	14
15	CONFERENCE RECEPT	20	1	2#12, #12G, 3/4"C			900	720			2#12, #12G, 3/4"C	1	20	CONFERENCE RECEPT	16
17	OFFICE RECEPT	20	1	2#12, #12G, 3/4"C					1080	540	2#12, #12G, 3/4"C	1	20	OFFICE RECEPT	18
19	OFFICE RECEPT	20	1	2#12, #12G, 3/4"C	720	720					2#12, #12G, 3/4"C	1	20	OFFICE RECEPT	20
21	HALLWAY RECEPT	20	1	2#12, #12G, 3/4"C			540	180			2#12, #12G, 3/4"C	1	20	COPIER	22
23	COPIER	30	2	2#10, #10G, 3/4"C					90	0	2#12, #12G, 3/4"C	1	20	RECEPTION DESK POWER	24
25	--	--	--	--	90	0					2#12, #12G, 3/4"C	1	20	RECEPTION DESK POWER	26
27	RECEPTION RECEPT	20	1	2#12, #12G, 3/4"C			360	0			2#12, #12G, 3/4"C	1	20	SINK POWER	28
29	DOOR OPEN POWER	20	1	2#12, #12G, 3/4"C					0	0	2#12, #12G, 3/4"C	1	20	FAAP	30
31	MARQUEE SIGN POWER	20	1	2#8, #8G, 3/4"C	0	720					2#12, #12G, 3/4"C	1	20	CLASSROOM POWER	32
33	CEF-1-1	20	1	2#12, #12G, 3/4"C			300	180			2#12, #12G, 3/4"C	1	20	*CLINIC FRIDGE	34
35	FLAG POLE POWER	20	1	2#10, #10G, 3/4"C					0	0	2#12, #12G, 3/4"C	1	20	FIRE ALARM CONTROL...	36
37	INTERCOM CABINET	20	1	2#12, #12G, 3/4"C	360	120					2#12, #12G, 3/4"C	1	20	TEF-2	38
39	EF-1-1	20	2	2#12, #12G, 3/4"C			800	120			2#12, #12G, 3/4"C	1	20	TEF-1	40
41	--	--	--	--					800	0	2#12, #12G, 3/4"C	1	20	RP-1	42
43	TEF-3	20	1	2#12, #12G, 3/4"C	120	0					--	1	20	CRAWLSPACE DAMPERS	44
45	BBH-1-1	20	2	--			0	0			--	1	20	SPARE	46
47	--	--	--	--					0	0	--	1	20	SPARE	48
49	SPARE	20	1	--	0	0					--	1	20	SPARE	50
51	SPARE	20	1	--			0	0			--	1	20	SPARE	52
53	SPARE	20	1	--					0	0	--	1	20	SPARE	54
55	SPARE	20	1	--	0	0					--	1	20	SPARE	56
57	SPARE	20	1	--			0	0			--	1	20	SPARE	58
59	SPARE	20	1	--					0	0	--	1	20	SPARE	60
				Total Load:	7710 VA		7340 VA		3950 VA						
				Total Amps:	69 A		66 A		33 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2260 VA	100.00%	2260 VA		
Power	0 VA	0.00%	0 VA	**Total Conn. Load:**	19000 VA
Receptacle	16740 VA	79.87%	13370 VA	**Total Est. Demand:**	15630 VA
				Total Conn. Current:	53 A
				Total Est. Demand Current:	43 A

Notes:
1. ANY INSTANCE OF * DENOTES A GFCI TYPE BREAKER.

PANELBOARD: HM-A

Mounting: SURFACE
Enclosure: NEMA 3R
A.I.C. Rating: 42,000

Volts: 480/277 Wye
Phases: 3
Wires: 4

Mains Type: MCB
Frame Rating: 150 A
MCB Rating: 150 A
Supply From: MSB-HA

	Circuit Description	Trip (amps)	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip (amps)	Circuit Description	
1	OFFICE LIGHITNG	20	1	2#12, #12G, 3/4"C	1811	715								2#12, #12G, 3/4"C	1	20	EXT. CANOPY LIGHTING	2
3	RECEPTION LIGHTING	20	1	2#12, #12G, 3/4"C			1548	4986						4#10, #10G, 3/4"C	3	25	RTU-DX-6	4
5	RTU-DX-7	15	3	4#12, #12G, 3/4"C					3324	4986	--	--	--	--	--	--	--	6
7	--	--	--	--	3324	4986					--	--	--	--	--	--	--	8
9	--	--	--	--			3324	4432			4#12, #12G, 3/4"C	3	20	RTU-DX-8	10
11	RTU-DX-9	15	3	4#12, #12G, 3/4"C					3324	4432	--	--	--	--	--	--	--	12
13	--	--	--	--	3324	4432					--	--	--	--	--	--	--	14
15	--	--	--	--			3324	3324			4#12, #12G, 3/4"C	3	15	RTU-DX-10	16
17	RTU-DX-11	15	3	4#12, #12G, 3/4"C					3324	3324	--	--	--	--	--	--	--	18
19	--	--	--	--	3324	3324					--	--	--	--	--	--	--	20
21	--	--	--	--			3324	4986			4#10, #10G, 3/4"C	3	25	RTU-DX-1	22
23	VRH-5-7	20	1	2#12, #12G, 3/4"C					0	4986	--	--	--	--	--	--	--	24
25	EWH-1	20	3	4#12, #12G, 3/4"C	4000	4986					--	--	--	--	--	--	--	26
27	--	--	--	--			4000	0			--	1	20	SPARE	28
29	--	--	--	--					4000	0	--	1	20	SPARE	30
31	SPARE	20	1	--	0	0					--	1	20	SPARE	32
33	SPARE	20	1	--			0	0			--	1	20	SPARE	34
35	SPARE	20	1	--					0	0	--	1	20	SPARE	36
37	SPARE	20	1	--	0	0					--	1	20	SPARE	38
39	SPARE	20	1	--			0	0			--	1	20	SPARE	40
41	SPARE	20	1	--					0	0	--	1	20	SPARE	42
43	SPARE	20	1	--	0	0					--	1	20	SPARE	44
45	SPARE	20	1	--			0	0			--	1	20	SPARE	46
47	SPARE	20	1	--					0	0	--	1	20	SPARE	48
49	SPARE	20	1	--	0	0					--	1	20	SPARE	50
51	SPARE	20	1	--			0	0			--	1	20	SPARE	52
53	SPARE	20	1	--					0	0	--	1	20	SPARE	54
55	SPARE	20	1	--	0	0					--	1	20	SPARE	56
57	SPARE	20	1	--			0	0			--	1	20	SPARE	58
59	SPARE	20	1	--					0	0	--	1	20	SPARE	60
				Total Load:	34226 VA		33248 VA		31700 VA						
				Total Amps:	124 A		121 A		114 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	4074 VA	125.00%	5092 VA		
Motor	95100 VA	100.00%	95100 VA	**Total Conn. Load:**	99174 VA
				Total Est. Demand:	100192 VA
				Total Conn. Current:	119 A
				Total Est. Demand Current:	121 A

Notes:

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers

17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311

Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRICAL PANEL SCHEDULES

Sheet Number
E8.01

PLUMBING GENERAL NOTES:

A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS.
B. ALL WORK SHALL COMPLY WITH THE BUILDING TENANT CONSTRUCTION GUIDE. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY TENANT LEASE SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION. UNLESS DIRECTED BY LANDLORD ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR NO LESS THAN 1 YEAR.
C. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS DATED 02/14/1968. HOWEVER, IT IS NOT INTENDED TO BE A TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
D. PIPING LAYOUT IS SCHEMATIC, EXACT LOCATION OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
E. CONTRACTOR SHALL COORDINATE PLUMBING ROUGH-IN WITH ARCHITECTURAL DRAWINGS TO PROVIDE EXACT PLUMBING LOCATION FOR FIXTURES.
F. COORDINATE EXACT LOCATION OF ALL WATER AND DRAIN CONNECTIONS FOR EQUIPMENT PROVIDED BY OTHERS.
G. RUN ALL WATER LINES LEVEL.
H. THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
I. SUPPORT CAST IRON SANITARY PIPING NOT IN EARTH, ON 5'-0" CENTERS, ALL STEEL PIPING ON 10'-0" CENTERS AND COPPER PIPING ON 6'-0" CENTERS.
J. THIS CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
K. ALL FIXTURES TO BE EQUIPPED WITH STOP VALVE IN ACCESSIBLE LOCATION.
L. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVE AT EACH BRANCH LINE CONNECTING TO THE MAIN. PROVIDE BRASS VALVE TAGS WITH DOCUMENTATION IN CLOSEOUT DOCUMENTS.
M. PROVIDE A SHUT-OFF VALVE ON THE TOP OF EVERY WATER DOWN-FEED PIPE PER IPC 606.1.
N. MAIN WATER SHUT-OFFS SHALL BE ACCESSIBLE.
O. PROVIDE ACCESSIBLE CLEANOUTS AT NOT MORE THAN 50 FEET APART IN HORIZONTAL SANITARY DRAINAGE LINES 4" SIZE OR LESS, AND NOT MORE THAN 100 FEET APART FOR LARGER PIPES.
P. PROVIDE ACCESSIBLE CLEANOUTS AT BASE OF ALL SANITARY STACKS AND OTHER PLACES AS REQUIRED BY CODE.
Q. WATER HEATER SHALL HAVE BOTH WATER AND ELECTRICAL SHUT-OFFS AT EASILY ACCESSIBLE LOCATIONS.
R. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL ABANDONED PLUMBING LINES.
S. PLUMBING CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING. COORDINATE WITH BUILDING MANAGEMENT FOR AFTER-HOURS ACCESS TO SPACE. PRIOR TO CORE DRILLING ANY EXISTING FLOORS, OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER.
T. REFER TO PLUMBING RISER DIAGRAMS FOR PIPING SIZES NOT SHOWN ON PLAN.
U. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD 'PROVIDE' IS USED, IT SHALL MEAN 'FURNISH AND INSTALL, COMPLETE AND READY TO USE.'
V. MATERIALS USED FOR INSULATION, ACOUSTICAL LININGS, ADHESIVES, JACKETS AND COATINGS, AND COMBINATIONS OF THESE MATERIALS, SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.
W. REFER TO GEOTECHNICAL REPORT AND STRUCTURAL DETAILS FOR FINAL REQUIREMENTS ON SUBSOIL PIPE SIZING. THIS INCLUDES, BUT IS NOT LIMITED TO, THE SIZE AND LOCATION OF ALL SUBSOIL PIPING, AND THE SIZE (GPM) OF THE SUBSOIL PUMPS.

X. SINCE SANITARY AND DOMESTIC WATER CONNECTION POINTS ARE NOT KNOWN, UTILIZE CONCEPT ABOVE FOR MAGNITUDE ONLY. DO NOT INSTALL ANY OF THIS WORK UNTIL TIE-INS AND INVERTS ARE FIELD VERIFIED.

Y. CONTRACTOR SHALL CAMERA SCOPE ALL EXISTING UNDERGROUND OR INACCESSIBLE SANITARY SEWER AND STORM PIPING PRIOR TO THE START OF CONSTRUCTION. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY SPACES THAT MIGHT BE REQUIRED FOR THE SCOPE INSPECTION. CONTRACTOR SHALL SUBMIT THE CAMERA SCOPING REPORT TO THE ARCHITECT, OWNER, AND ENGINEER PRIOR TO THE START OF ANY WORK. REPORT SHALL INCLUDE A SHOP DRAWING OR DETAILED SKETCH WITH LOCATIONS OF ANY INCORRECT PIPE SLOPES, PIPE BLOCKAGES, BROKEN PIPES, RUSTING PIPES, DAMAGED PIPES, GENERAL SUMMARY OF PIPE TYPES, ETC.

FIRE PROTECTION PERFORMANCE SPECIFICATION:

A. MODIFY THE EXISTING WET PIPE FIRE SPRINKLER SYSTEM AS REQUIRED FOR THE NEW TENANT LAYOUT INCLUDING RELOCATING PIPING TO CLEAR NEW DUCTWORK, ADDING NEW HEADS, RELOCATING EXISTING HEADS, AND LEAVING CERTAIN EXISTING HEADS IN PLACE. THE SPRINKLER DESIGN SHALL COMPLY WITH NFPA 13, THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE REQUIREMENTS OF THE OWNER'S INSURANCE COMPANY.

B. EXISTING SPRINKLER HEADS TO BE RELOCATED MAY BE REUSED. EXISTING PIPING WHICH IS REMOVED IN THE MODIFICATION WORK SHALL NOT BE REUSED. NEW SPRINKLER PIPING SHALL BE ROUTED AS REQUIRED TO CLEAR NEW DUCTWORK, EXISTING DUCTWORK TO REMAIN, LIGHT FIXTURES, STRUCTURAL INTERFERENCES, ETC.

C. THE NEW SPRINKLER HEADS SHALL MATCH EXISTING SPRINKLER HEADS.

D. ALL PIPING SHALL BE SCHEDULE 40 WITH USA FITTINGS.

E. IN ALL GYP. BOARD CEILING AREA, PROVIDE CONCEALED SPRINKLER HEADS WITH CAPS TO BE FACTORY PAINTED TO MATCH CEILING. ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL BE LOCATED IN CENTER OF TILE AND ALIGNED WITH LIGHT FIXTURES.

F. SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CALCULATIONS AND SPRINKLER HEAD LOCATIONS FOR ARCHITECT TO REVIEW PRIOR TO ANY INSTALLATION. NO EXCEPTION TAKEN.

G. ALL SPRINKLER HEADS IN EXPOSED CEILING SHALL BE TURNED TO THE UPRIGHT POSITION AND REPLACE HEADS IF REQUIRED.

H. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE SUPPRESSION SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE, SHALL BE MADE AT NO COST TO THE OWNER.

PLUMBING PIPING, FITTINGS, & JOINTS SCHEDULE

APPLICATION	MATERIAL	FITTINGS	JOINTS
DOMESTIC			
UNDERSLAB (4" AND SMALLER)	COPPER	SOLDER	BRAZED
	PVC		
ABOVEGROUND			
2" AND SMALLER	COPPER	FLANGES	BRAZED
		SOLDER	SOLDER
		*PRESS FITTINGS ACCEPTED	
	STAINLESS STEEL	STAINLESS STEEL	WELDED
LARGER THAN 2"	COPPER	FLANGES	BRAZED
		SOLDER	SOLDER
	STAINLESS STEEL	STAINLESS STEEL	WELDED
NATURAL GAS			
UNDERGROUND	PE PIPE	HEAT FUSION	
		MECHANICAL COUPLINGS	
	STEEL PIPE	WROUGHT-STEEL	WELDED
		MECHANICAL COUPLINGS	
		PRESS FITTINGS NOT ACCEPTED	
ABOVEGROUND			
2" AND SMALLER	STEEL	MALEABLE IRON	THREADED
LARGER THAN 2"	STEEL	WROUGHT STEEL IRON	WELDED
SANITARY WASTE & VENT			
UNDERGROUND	EXTRA-HEAVY CLASS, CAST IRON SOIL PIPE	EXTRA-HEAVY CLASS, CAST IRON SOIL FITTINGS, GASKETS	GASKETED
	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC
ABOVEGROUND	HUBLESS CAST IRON SOIL PIPE	HUBLESS CAST IRON SOIL FITTINGS	STANDARD COUPLINGS AND HUBLESS-COUPLING JOINTS
EXPOSED PIPING IN KITCHEN	DWV COPPER	WROUGHT COPPER	BRAZED
STORM			
UNDERGROUND	EXTRA-HEAVY CLASS, CAST IRON SOIL PIPE	EXTRA-HEAVY CLASS, CAST IRON SOIL FITTINGS, GASKETS	GASKETED
	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC
ABOVEGROUND	HUBLESS CAST IRON SOIL PIPE	HUBLESS CAST IRON SOIL FITTINGS	SHIELDED STAINLESS STEEL COUPLINGS & FITTINGS
MAKEUP-WATER PIPING			
	COPPER	WROUGHT COPPER	SOLDERED
CONDENSATE			
	COPPER	WROUGHT COPPER	SOLDERED
LAB GASES			
	COPPER	WROUGHT COPPER	BRAZED

1. *SHARKBITE IS NOT ACCEPTED. ACCEPTABLE PRESS FITTINGS MANUFACTURER ARE: NIBCO, VIEGA-PROPRESS, VIEGA MEGAPRESS, PARKER-ZOOMLOCK (REFRIGERANT PIPING ONLY).
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. NOT ALL PIPE TYPES MAY BE USED. REFER TO FLOOR PLANS FOR FURTHER DETAILS.

CHPS PLUMBING REQUIREMENTS

NOTE THAT THESE CHPS REQUIREMENTS APPLY TO SCOPE IN THE NEW ADDITION ONLY.

EQ 2.1 - POLLUTANT AND CHEMICAL SOURCE CONTROL
1. TO COMPLY WITH EQ 2.1.4, PROVIDE ELECTRIC IGNITION FOR ALL GAS-FIRED EQUIPMENT.

EQ 3.0 - OUTDOOR MOISTURE MANAGEMENT
1. EVAPORATION DRIP PANS FOR CONDENSATE ARE NOT ALLOWED.

EQ 17.1 - BUILDING ENVELOPE INTEGRITY
1. ANY WALL, FLOOR, OR CEILING OPENINGS THAT ARE CORED, DRILLED, OR CUT OUT DURING CONSTRUCTION MUST BE SEALED AND COMPLETELY CLOSED UP TO PREVENT THE FLOW OF AIR OR WATER THROUGH THE OPENING. COORDINATE WITH GC, MECHANICAL CONTRACTOR, AND ELECTRICAL CONTRACTOR AS NEEDED.

WE 1.1 - MINIMUM REDUCTION IN INDOOR POTABLE WATER USE
1. PLUMBING FIXTURES SHALL NOT EXCEED GPM OR GPF REQUIREMENTS LISTED IN CHPS CRITERIA.

PLUMBING INSULATION SCHEDULE

APPLICATION	INSULATION		INSULATION FINISH (OR PIPE FINISH IF NO INSULATION PRESENT)		
	INSULATION TYPE	INSULATION THICKNESS	INDOOR CONCEALED	INDOOR EXPOSED (C)	OUTDOOR
DOMESTIC COLD WATER PIPING (F)					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1/2"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1"	8F	5F	NA
OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
DOMESTIC HOT WATER PIPING					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1-1/2"	8F	5F	NA
BELOW GRADE: ALL SIZES	4i	1-1/2"	NA	NA	NA
OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
STORM AND STORM OVERFLOW PIPING					
INDOOR: ALL SIZES	6i	1"	8F	5F	NA
OUTDOOR: ALL SIZES	NA	NA	NA	NA	NA
INDOOR: ROOF DRAIN AND OVERFLOW DRAIN BODIES	6i	1"	8F	8F	NA
SANITARY SEWER AND GREASE WASTE PIPING					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C)(D), ALL SIZES	6i (A) (D)	1/2"	NA	5F (D)	NA
WITH HEAT TRACE - INDOOR: ALL SIZES	6i	1-1/2"	8F	5F	NA
WITH HEAT TRACE - OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
ABOVE GRADE: 1ST 10FT PIPING RECEIVING COLD CONDENSATE INCLUDING THE FLOOR DRAIN AND P-TRAP	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 10FT PIPING RECEIVING COLD CONDENSATE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
ABOVE GRADE: 1ST 25FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP (E)	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 25FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
COLD CONDENSATE DRAIN PIPING					
INDOOR OR OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	6i (A)	1/2"	8F	5F	9F
VENT PIPING					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C)(D), ALL SIZES	6i (A) (D)	1/2"	NA	5F (D)	NA
NATURAL GAS					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C), ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA

GENERAL NOTES (APPLIES TO ALL):
- NOT ALL PIPE TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

NOTES:
A. CELLULAR FOAM MAY BE SUBSTITUTED
B. USE 9F FINISH FOR CELLULAR FOAM
C. THIS INCLUDES BUT IS NOT LIMITED TO, PIPING EXPOSED IN MECHANICAL ROOMS, PIPING IN OPEN CEILINGS EXPOSED TO THE PUBLIC OR PRIVATE PERSONNEL, OR EXPOSED PIPING DOWN KITCHENS WALLS, ETC.
D. INSULATION ON INDOOR EXPOSED SANITARY PIPING IS FOR AESTHETIC APPEAL ONLY AND ONLY PROVIDED AT THE DIRECTION OF THE ARCHITECT IN VERY LIMITED LOCATIONS. THE CONTRACTOR SHALL ONLY PROVIDE THIS INSULATION WHERE IT IS SPECIFICALLY CALLED OUT ON THE PLUMBING FLOOR PLANS. IF NOT INDICATED ON THE PLUMBING FLOOR PLANS, THE CONTRACTOR SHALL TREAT INDOOR EXPOSED SANITARY PIPING THE SAME WAY INDOOR CONCEALED SANITARY PIPING IS TREATED IN THIS SCHEDULE. REFER TO THE PLUMBING FLOOR PLANS FOR LOCATIONS. REFER TO THE ARCHITECTURAL PLANS FOR COLOR SELECTIONS.
E. DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER). THIS INCLUDES BUT IS NOT LIMITED TO DRAINS BESIDE DOMESTIC WATER HEATERS, HEATING WATER BOILERS, AND DIRECT CONNECTIONS OR DRAINS RECEIVING WATER FROM DISHWASHERS, ETC.
F. ALL PROCESS WATER PIPES SHALL BE INSULATED TO THE SAME LEVEL AS THE DOMESTIC COLD WATER LISTED IN THE SCHEDULE ABOVE. THIS INCLUDES, BUT IS NOT LIMITED TO, DEIONIZED (DI) WATER, FILTERED WATER, REVERSE OSMOSIS (RO) WATER, ETC, IF PRESENT.

INSULATION MATERIALS:
1i. CALCIUM SILICATE - MAXIMUM K FACTOR AT 500 DEGREES F SHALL BE 0.55, MUST ASTM C411 TO 1200 DEGREES F, AND MUST MEET NFPA 255 AND UL 723 FOR 0/0 FLAME SPREAD AND SMOKE DEVELOPED.
2i. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS BOARD WITH A DENSITY OF 3 LBS/FT3. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.24 AND A TEMPERATURE LIMIT OF 250 DEGREES F (FACED) AND 450 DEGREES F (UNFACED). NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
3i. FIBERGLASS DUCT WRAP - MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.30, MUST PASS ASTM C411 TO 250 DEGREES F FACED. DENSITY SHALL BE 0.75 LBS/FT3. NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.
4i. CELLULAR FOAM - EQUAL TO AP/ARMAFLEX TUBES OR SHEETS, AS APPLICABLE TO INSTALLATION. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.28. MAXIMUM OPERATING TEMPERATURE OF 200 DEGREES F. MUST MEET NFPA 255 AND UL723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED AND MUST BE FREE OF ANY CFCS,HFCS, OR HCFCS
5i. FIBERGLASS DUCT LINER - REFER TO SECTION 23313 FOR ADDITIONAL INFORMATION
6i. FIBERGLASS PIPE INSULATION - MAXIMUM K FACTOR AT 100 DEGREES F SHALL BE 0.24, MUST PASS ASTM C411 TO 850 DEGREES F. DENSITY SHALL BE 3.5 LBS/FT3/ NFPA 255 AND UL 7723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II.
NA. NOT APPLICABLE OR NONE REQUIRED.

FINISH TYPES
1F. 0.010" T-304 STAINLESS STEEL JACKETING -- CORRUGATED. PROVIDE 3/16" CORRUGATED ROLL JACKETING FOR PIPING AND TANKS LESS THAN 6 FEET DIAMETER AND DEEP CORRUGATED SHEETS FOR DIAMETERS LARGER THAN 6 FEET.
2F. 0.010" T-304 STAINLESS STEEL JACKETING -- SMOOTH FINISH.
3F. CORRUGATED ALUMINUM -- 0.016" UP THROUGH 24" PIPE SIZE. 0.024" LARGER THAN 24".
4F. SMOOTH ALUMINUM -- 0.016" UP THROUGH 12" PIPE SIZE, 0.024" LARGER THAN 12".
5F. 20-MIL PVC (25 FLAME SPREAD AND 50 SMOKE DEVELOPED.)
6F. FOIL/REINFORCED/KRACT JACKET (VAPOR BARRIER).
7F. 1/4-INCH WEATHERPROOF MASTIC WITH GLASS MESH REINFORCEMENT. SLOPE TOP OF DUCT MINIMUM OF 1/4" PER FOOT TO PREVENT PONDING.
8F. WHITE ALL-SERVICE JACKET (VAPOR BARRIER).
9F. WATER BASED LATEX ENAMEL WEATHER RESISTANT AND UV RESISTANT FINISH EQUAL TO ARMAFLEX WB FINISH.
10F. 125 MILS THICK EXTRUDED, BLACK, HIGH DENSITY POLYETHYLENE (HDPE). INNER SURFACE SHALL BE OXIDIZED BY MEANS OF CORONA OR FLAME TREATMENT.
NA. NOT APPLICABLE OR NO FINISH REQUIRED.

WATER HAMMER ARRESTOR SCHEDULE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	⅜	1-11
B	½"	12-32
C	1"	33-60
D	1¼"	61-113
E	1½"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER/BATHTUB	2	2

NOTES:
PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, OR WATTS WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

PLUMBING DESIGN CRITERIA		
		NOTES
RAINFALL RATE	6" / HR	
DOMESTIC WATER PRESSURE	55 PSI	BASED ON ASSUMPTION
FIRE PROTECTION PRESSURE	55 PSI	BASED ON ASSUMPTION
MINIMUM INCOMING WATER TEMPERATURE	50°F	
STARTING INVERT ELEVATION	24" BFF	TYPICAL UNLESS NOTED OTHERWISE
ENDING INVERT ELEVATION	REFER TO UNDERFLOOR PLANS	

PLUMBING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
SAN	SANITARY SEWER
ST	STORM DRAIN
RD	ROOF DRAIN
OFD	OVERFLOW DRAIN
V	VENT
DCW	DOMESTIC COLD WATER
RO	REVERSE OSMOSIS
DI	DEIONIZED WATER
SCW	SOFT COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
CD	CONDENSATE DRAIN PIPING
F	FIRE PROTECTION PIPING
	PIPING DOWN
	PIPING UP -OR- PIPING UP & DOWN
CO	CLEANOUT (CO) OR WALL CLEANOUT (WCO)
FCO	FLOOR (FCO) OR GRADE (GCO) CLEANOUT
	CAP ON END OF PIPE
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	ISOLATION / SHUT-OFF VALVE (SOV) / GAS COCK
	UNION
	BALANCING VALVE / CIRCUIT SETTER
	GAS REGULATOR
	PRESSURE REDUCING VALVE (PRV)
	CHECK VALVE
	CONNECT TO EXISTING

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BOP	BOTTOM OF PIPE
DFU	DRAIN FIXTURE UNIT
ER / er	EXISTING ITEM TO BE RELOCATED
ED / ed	EXISTING ITEM TO BE REMOVED
E / e	EXISTING ITEM TO REMAIN
FDC	FIRE DEPARTMENT CONNECTION
FU	FIXTURE UNITS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
IE	INVERT ELEVATION
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
SOV	SHUT OFF VALVE
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

PLUMBING APPLICABLE CODES

- 2021 INTERNATIONAL PLUMBING CODE (IPC)
- 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- CURRENT DISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

FIRE SUPPRESSION APPLICABLE CODES

- FM GLOBAL
- 2021 INTERNATIONAL FIRE CODE (IFC)
- 2021 NATIONAL FIRE PROTECTION AGENCY CODES (NFPA)
- CURRENT DISD DESIGN GUIDELINES
- CITY OF DALLAS LOCAL AMENDMENTS

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 8000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
PLUMBING NOTES & SYMBOLS

Sheet Number
P0.01

PLUMBING FIXTURE SCHEDULE WITH IMAGES

IMAGE	DESIGN.	FIXTURE	MANUFACTURER	MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM	ROUGH-IN CONNECTION SIZES				DESCRIPTION
							DCW	DHW	SAN	VENT	
	WCA / WCB(ADA)	WATER CLOSET BODY	AMERICAN STANDARD	AFWALL MILLENNIUM, 1.1 GPF TO 1.6 GPF, TOP SPUD ELONGATED BOWL WITH EVERCLEAN FINISH, MODEL #3351.101	PROVIDE WITH "FVW" FLUSH VALVE FOR WATER CLOSET, DEFINED ON THIS SCHEDULE.	-	REF: FVW	-	4"	2"	WALL MOUNTED, SIPHON JET, ELONGATED BOWL WITH CHURCH #9500C SEAT AND JOSAM HEAVY DUTY CARRIER (500LBS MINIMUM RATING). INSTALLED AT 15" MOUNTING HEIGHT FOR A STANDARD WATER CLOSET "WCA" AND INSTALLED AT ADA MOUNTING HEIGHT OF 18" FROM FLOOR TO TOP OF SEAT FOR WATER CLOSET "WCB".
	FVW	MANUAL WATER CLOSET FLUSH VALVE	SLOAN	MODEL # ROYAL 111-1.28	-	1.28 GPF	1"	-	-	-	EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY. IF INSTALLED ON ADA WATER CLOSET, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLATION PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LABELING.
	LA	LAVATORY BOWL	AMERICAN STANDARD	DECORUM, MODEL # 9024	PROVIDE WITH "FTL" FAUCET FOR LAVATORY, DEFINED ON THIS SCHEDULE. INSTALL FLOOR MOUNTED WALL CARRIER ON ALL LAVATORIES.	-	REF: FTL	REF:FTL	2"	1-1/2"	WALL HUNG 20"X18" VIRTEOUS CHINA LAVATORY BOWL AND ADA COMPLIANT. CONTRACTOR SHALL COORDINATE HOLE NUMBER AND SPACING WITH FAUCET SELECTION AND ARCHITECTURAL ACCESSORIES (SOAP DISPENSER, ETC) PRIOR TO ORDER. PROVIDE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT. CHROME PLATED GRIP TYPE SUPPLY WITH WALL ESCUTCHEON AND LOOSE-KEY WALL STOPS EQUAL TO MCGUIRE NO. H2. 15BLK. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE.
	FTL	LAVATORY FAUCET HARD-WIRED	SLOAN	FAUCET MODEL # ETF-880-4-BOX-TEE-CP-0.5GPM-MLM-IR-FCT, GRID STRAINER MODEL # ETF-490-A	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE.	0.5 GPM	1/2"	1/2"	-	-	AUTOMATIC SENSOR,HARD-WIRED, MULTIPLE LAMINAR SPRAY HEAD FAUCET WITH CHROME PLATED BRASS GRID STRAINER ASSEMBLY. CONFIRM ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDER. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL TRANSFORMER FOR ELECTRICAL CONSTRACTOR TO CONNECT POWER.
	SKA	SHALLOW SINGLE SINK	ELKAY	LUSTERTONE, MODEL # LRAD221940	PROVIDE WITH"FTS" FAUCET FOR SINK, DEFINED ON THIS SCHEDULE.	-	REF: FTS	REF: FTS	2"	1-1/2"	DROP-IN, 22" x 19.5" x 4", SINGLE COMPARTMENT, 18 GA. TYPE 302 STAINLESS STEEL AND ADA COMPLIANT WITH GARBAGE DISPOSAL. CONTRACTOR SHALL COORDINATE HOLE NUMBER AND SPACING WITH FAUCET SELECTION AND ARCHITECTURAL ACCESSORIES (SOAP DISPENSER, DISHWASHER AIR GAP, ETC) PRIOR TO ORDER. DRAIN SHALL BE LOCATED IN THE REAR CENTER OF THE SINK. PROVIDE LK-35 CUP STRAINER AND OFFSET GRID DRAIN # LKADOS. PROVIDE CHROME PLATED CAST P-TRAP WITH CLEANOUT, CHROME PLATED FLEX SUPPLIES, WALL STOPS AND WALL ESCUTCHEONS. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE.
	FTS	MANUAL SINK FAUCET	AMERICAN STANDARD	FAUCET: 4931.300.075	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE.	1.5 GPM	1/2"	1/2"	-	-	SINK FAUCET FOR HOT AND COLD WATER. FAUCET SHALL A MANUAL LEVER HANDLE. FAUCET SHALL BE ADA COMPLIANT, NSF 61 CERTIFIED LEAD FREE, DECK MOUNTED, PULL DOWN SPRAY HEAD, 8"+ SWIVEL GOOSENECK SPOUT. REFER TO ARCHITECT FOR FIXTURE FINISH AND COLORS. FIXTURE SHALL HAVE LEED WATERSENSE LABELING.
	SH (ADA)	SHOWER HEAD ADA	SPEAKMAN	HANDHELD SHOWER HEAD AND BAR: VS-1001-ADA-PC PE-2724 (E15) ADA REQUIRED PAUSE/TRICKLE ADAPTER: VS-156	PROVIDE WITH "SV" SHOWER VALVE, DEFINED ON THIS SCHEDULE	1.5 GPM	1/2"	1/2"	REF: SD	REF: SD	ADA SHOWER HEAD. PROVIDE WITH SHOWER ARM, WALL FLANGE, 5FT CHROME PLATED FLEXIBLE HOSE WITH SUPPLY ELBOW, 24" SLIDE-BAR, GRAB BAR WITH HAND-HELD MOUNT, AND PAUSE/TRICKLE ADAPTER. FIXTURE SHALL HAVE LEED WATERSENSE LABELING.
	SV	SHOWER VALVE	SPEAKMAN	VALVE MODEL: SENTINELPRO CPV-TP THERMOSTATIC PRESSURE BALANCE VALVE TRIM MODEL: NEO THERMOSTATIC PRESSURE/BALANCE VALVE TRIM CPT-1000-TP	-	REF: SH	1/2"	1/2"	REF: SD	REF: SD	THERMOSTATIC AND PRESSURE BALANCING SHOWER VALVE TO REGULATE TEMPERATURE, PREVENT SCALDING AND THERMAL SHOCK. PROVIDE TRIM PLATE COMPATIBLE WITH VALVE AS SHOWN. TRIM PLATE FINISH COLOR SHALL BE SELECTED BY THE ARCHITECT DURING THE SUBMITTAL PHASE. INCLUDE PRICING FOR A PREMIUM TRIM PLATE FINISH COLOR TO MATCH THE SHOWER HEAD. SHOWER VALVE SHALL HAVE SWEAT & THREAD CONNECTIONS, ADJUSTABLE TEMPERATURE LIMIT STOP, SOLID BRASS BODY, AND INTEGRAL SPRING CHECK STOPS. VALVE SHALL BE ASME A112.18.1/CSA B125.1 AND ASSE 1016 CERTIFIED. COMPLETE SHOWER ASSEMBLY SHALL HAVE LEED WATERSENSE LABELING. REFER TO SHOWER HEAD ON THIS SCHEDULE FOR MORE INFORMATION ABOUT LEED WATERSENSE LABELING.
	SD	SHOWER DRAIN	JOSAM	MODEL # 30000-A	REFER TO "SV" SHOWER VALVE AND "SH" SHOWER HEAD, DEFINED ON THIS SCHEDULE, FOR MORE INFORMATION.	-	-	-	2"	2"	ROUND, COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, FLASHING COLLAR, WEEP-HOLES, AND BOTTOM OUTLET. PROVIDE CHROME PLATED STRAINER. DRAIN SHALL BE COVERED DURING CONSTRUCTION. PROVIDE WITH PROTECTIVE DEBRIS COVER.
	HB	INTERIOR RECESSED SHALLOW WALL HOSE BIBB	WOODFORD	MODEL # B79	-	-	3/4"	-	-	-	ALL BRONZE, NARROW WALL (4" CLEAR WITH BOX, 2-5/8" CLEAR WITHOUT BOX), WARM CLIMATE HYDRANT WITH CHROME PLATED FACE. PROVIDE CONCEALED MODEL WITH BOX AND "T" HANDLE KEY LOCKING COVER. HOSE CONNECTION SHALL HAVE INTEGRAL ASSE 1011 VACUUM BREAKER OR INTEGRAL ASSE 12052 DOUBLE CHECK BACKFLOW PREVENTER. PROVIDE 360 DEGREE SWIVEL INLET CONNECTION.
	DSN	DOWNSPOUT NOZZLE	JOSAM	MODEL # 25010-51-BS	-	-	-	-	-	-	DOWNSPOUT NOZZLE FOR OVERFLOW ROOF DRAIN OUTLET, BRONZE FINISH, WITH REMOVABLE STAINLESS SCREEN.
	RD	ROOF DRAIN	JOSAM	SERIES 21500-1-22	-	-	-	-	REF: PLANS	REF: PLANS	ROOF DRAIN WITH CAST IRON DOME, DECK CLAMP AND DRAIN RECEIVER.
	OFD	OVERFLOW ROOF DRAIN	JOSAM	SERIES 21500-1-22-16	-	-	-	-	REF: PLANS	REF: PLANS	OVERFLOW ROOF DRAIN WITH INTERNAL WATER GUARD SET AT 2" ABOVE ELEVATION OF ADJACENT ROOF DRAIN. PROVIDE WITH CAST IRON DOME, DECK CLAMP AND DRAIN RECEIVER.
	HD	HUB DRAIN	JOSAM	SERIES 88600	-	-	-	-	REF: PLANS	REF: PLANS	OPEN CAST IRON DRAINAGE HUB. REFER TO PLANS FOR SIZE.
	FD	FLOOR DRAIN ROUND	JOSAM	MODEL # 30000-A	-	-	-	-	3"	2"	ROUND, COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, FLASHING COLLAR, WEEP-HOLES, AND BOTTOM OUTLET. PROVIDE CHROME PLATED STRAINER. DRAIN SHALL BE COVERED DURING CONSTRUCTION. PROVIDE WITH PROTECTIVE DEBRIS COVER.
	FS	FLOOR SINK	JOSAM	SERIES 49320A-NB-3-55	-	-	-	-	4"	2"	SQUARE CAST IRON FLOOR SINK WITH PORCELAIN COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUN INTERNAL DOME STRAINER, NON-TRAFFIC, ANTI-TILTING GRATE. 12" X 12" TOP SIZE WITH 1/2 CAST IRON GRATE. PROVIDE WITH TRAP GUARD, "W/TG" OR TRAP PRIMER "W/TP" AS INDICATED PER PLANS.
	FCO	FLOOR CLEANOUT	JOSAM	SERIES 55000-2-31	-	-	-	-	REF: PLANS	-	CAST IRON BODY WITH SATIN FINISH NIKOLAY TOP. CONFIRM FINISH COLOR WITH ARCHITECT. CONFIRM EXACT LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
	WCO	WALL CLEANOUT	JOSAM	SERIES 58910	-	-	-	-	REF: PLANS	-	COATED CAST IRON CLEANOUT TEE WITH RECESSED, TAPPED PLUG AND POLISHED STAINLESS STEEL COVER (SERIES 58600).
	WMB	WASHING MACHINE BOX	OATEY	MODEL #38530	-	-	1/2"	1/2"	2"	2"	QUATRO 1/4 TURN BRASS BALL VALVE - COPPER SWEAT PACK.
	HSA	HYDRAULIC SHOCK ABSORBER	JOSAM	SERIES 75000	-	-	REF: PLANS	REF: PLANS	-	-	WROUGHT COPPER SHELL SIZE AND LOCATE IN ACCORDANCE WITH P.D.I. STANDARDS.
	VTR	VENT TO ROOF - TWO WAY CARBON FILTER	STUDOR	MAXI-FILTRA	-	-	-	-	-	REF: PLANS	PROVIDE CARBON FILTER ON ALL VENT TO ROOF LOCATIONS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. CARBON FILTER SHALL BE EXTERIOR RATED. PROVIDED WITH ALUMINUM EXTERIOR COVER. IT SHALL BE A 2-WAY VENT, FILTERING AIR IN BOTH DIRECTIONS. CONTRACTOR SHALL PROVIDE (1) REPLACEMENT CARTRIDGE IN THE MANUFACTURER'S ORIGINAL PACKAGING FOR OWNER'S ATTIC STOCK. REFER TO VENT TO ROOF DETAIL FOR MORE INFORMATION.
	TG	TRAP GUARD	PRO-SET	TRAP GUARD	-	-	-	-	REF: FDx	-	INSTALL ON ALL FLOOR DRAINS, FLOOR SINKS, FLOOR TROUGHS AND HUB DRAINS THAT ARE INDICATED "W/TG" WITH TRAP GUARD. NOTE THAT ANY ALTERNATE TRAP GUARD SUBMITTED MUST BE OF THIS "LAMBS TONGUE" OR "CURLING FLAP" TYPE FORM. NO OTHER FORMS OF TRAP GUARDS WILL BE ACCEPTED.
	WF	WATER FILTER FOR A SINGLE ICE MACHINE	PENTAIR	EVERPURE INSURICE SINGLE-I 2000 #EV9324-01	PROVIDE WITH "RPZ-S" (REDUCED PRESSURE ZONE SMALL) BACKFLOW PREVENTION DEVICE, DEFINED ON THIS SCHEDULE.	1.67 GPM MAX.	1/2"	-	-	-	PROVIDE ALL HARDWARE FOR MOUNTING AND CONNECTION TO DEVICES AS NEEDED. MOUNT FILTER UNDER SINK IN EASILY ACCESSIBLE LOCATION. SYSTEM DIMENSIONS ARE 25.33" L X 14.5" W X 6.47" D. INSTALL VERTICALLY WITH CARTRIDGES HANGING DOWN AND ALLOW 2.5" CLEARANCE BELOW THE CARTRIDGE FOR EASY CARTRIDGE REPLACEMENT. PROVIDE (2) FILTER REPLACEMENT CARTRIDGES EQUAL TO EVERPURE SINGLE-I 2000 REPLACEMENT CARTRIDGE #EV9612-22. PROVIDE WRITTEN INSTRUCTIONS TO TENANT FOR REPLACEMENT OF FILTER EVERY SIX MONTHS.
	WF	WATER FILTER FOR BREAKROOM OR LAVATORY SINK	PENTAIR	EVERPURE #PBS-400, EV927085	PROVIDE WITH "RPZ-S" (REDUCED PRESSURE ZONE SMALL) BACKFLOW PREVENTION DEVICE, DEFINED ON THIS SCHEDULE.	2.2 GPM MAX.	1/2"	-	-	-	PROVIDE ALL HARDWARE FOR MOUNTING AND CONNECTION TO DEVICES AS NEEDED. MOUNT FILTER UNDER SINK IN EASILY ACCESSIBLE LOCATION. SYSTEM DIMENSIONS ARE 20" H X 5" W X 5" D. INSTALL VERTICALLY WITH CARTRIDGE HANGING DOWN AND ALLOW 2.5" CLEARANCE BELOW THE CARTRIDGE FOR EASY CARTRIDGE REPLACEMENT. PROVIDE (2) FILTER REPLACEMENT CARTRIDGES EQUAL TO EVERPURE PBS-400 REPLACEMENT CARTRIDGE #EV927086. PROVIDE WRITTEN INSTRUCTIONS TO TENANT FOR REPLACEMENT OF FILTER EVERY SIX MONTHS.

CITY OF DALLAS STAMP

PLUMBING FIXTURE SCHEDULE WITH IMAGES

IMAGE	DESIGN.	FIXTURE	MANUFACTURER	MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM	ROUGH-IN CONNECTION SIZES				DESCRIPTION
							DCW	DHW	SAN	VENT	
	AG	DISHWASHER AIR GAP	DEARBORN BRASS	MODEL # DB-CD-3	-	-	-	-	REF: EQUIPMENT	-	COPPER BODY AIR GAP WITH POLISHED CHROME PLATED METAL CAP. PROVIDE WITH NECESSARY ACCESSORIES AND TUBING FOR A COMPLETE INSTALLATION. CONFIRM COLOR/FINISH WITH ARCHITECT.
	BFP	SMALL DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINE OR COFFEE MAKER, ETC	WATTS	MODEL # SD-3	-	-	REF: PLANS	REF: PLANS	VARIES	-	ASSE 1022 BACKFLOW PREVENTER FOR CARBONATED BEVERAGE MACHINES AND OTHER APPLIANCES. SHALL BE LEAD FREE. PROVIDE COPPER DRAIN PIPING (SIZE PER MANUFACTURER) FROM VALVE ASSEMBLY AND ROUTE TO NEAREST DRAIN (HUB DRAIN OR FLOOR SINK).
	RPZ-S	SMALL REDUCED PRESS RELIEF ASSEMBLY FOR MAKEUP WATER TO MECHANICAL EQUIPMENT, ICE MACHINE, OR WATER FILTER, ETC	WATTS	1/2" - 2" MODEL #LF009QT	-	-	REF: PLANS	REF: PLANS	-	-	ASSE 1013 COMPLIANT REDUCED PRESSURE ZONE ASSEMBLY. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE WITH SHUTOFF VALVES, LEAD FREE, FDA EPOXY COATED. PROVIDE FULL SIZE COPPER DRAIN PIPING FROM VALVE ASSEMBLY AND PROVIDE FLOOR SINK FOR DRAIN NEAR ASSEMBLY AS SHOWN ON DRAWINGS. ENSURE ASSEMBLY IS ACCESSIBLE PER LOCAL JURISDICTION'S GUIDELINES.
	TMV	POINT OF MIXING VALVE	LEONARD	S-170A-LF	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED AND CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.25 GPM (0.95 L/MIN) CERTIFIED TO ASSE -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE:120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE
	TMV ACCEPTABLE ALTERNATE	POINT OF MIXING VALVE	SLOAN	MODEL # MIX-135 0326045PK	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED AND CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.5 GPM (2.2 L/MIN) CERTIFIED TO ASSE 1016 [ONLY ALLOWED IF FAUCET IS 0.5 GPM OR GREATER. IF THE FAUCET IS LESS THEN 0.5 GPM THE CONTRACTOR SHALL PROVIDE THE LEONARD TMV.] -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE: 120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE

GENERAL NOTES:

1 REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2 EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.
3 ALL WATER CLOSET FLUSH VALVES, URINAL FLUSH VALVES, PRIVATE LAVATORY FAUCETS, AND SHOWERHEAD FAUCETS SHALL BE LEED WATERSENSE LABELED. NO EXCEPTIONS. EVEN IF THE PROJECT IS NOT A LEED PROJECT PURDY-MCGUIRE STILL REQUIRES ALL THESE FIXTURE TYPES TO BE WATERSENSE LABELED.
4 REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS. FOR ALL VISIBLE FIXTURES, THE CONTRACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BASE BID TO BE SELECTED BY THE ARCHITECT DURING THE SUBMITTAL PHASE.
5 SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:
A. FLUSHOMETERS: SLOAN, AMERICAN STANDARD, TOTO AND ZURN.
B. FIXTURE SUPPORTS: JOSAM, MIFAB, JAY R. SMITH, TYLER PIPE WADE DIV., WATTS DRAINAGE PRODUCTS AND ZURN.
C. WATER CLOSETS AND URNIALS: AMERICAN STANDARD, KOHLER, SLOAN, TOTO, ZURN, AND CHURCH (SEATS).
D. LAVATORIES AND FAUCETS: AMERICAN STANDARD, ELKAY, KOHLER, SLOAN, TOTO, BRADLEY, AND ZURN.
E. SINKS AND FAUCETS: AMERICAN STANDARD, ELKAY, JUST, CHICAGO, ADVANCE TABCO, AND SYMMONS.
F. MOP SINKS: FIAT, FLORESTONE, AMERICAN STANDARD, ELKAY, ZURN, AND SPEAKMAN.
G. EMERGENCY SHOWERS AND EYE WASHES: GUARDIAN, BRADLEY, AND SPEAKMAN.
H. WATER METERS: MASTER METER, BADGER, NEPTUNE, AND EMON.
I. DRAINS AND CLEAN-OUTS: JOSAM, MIFAB, JAY R SMITH, WATTS, ZURN, AND SIOUX CHIEF.
J. TRAP GUARDS: PRO-SET. SEE THE TRAP GUARD DESCRIPTION ABOVE FOR OTHER EQUAL ALTERNATE MANUFACTURERS.
K. BACKFLOW PREVENTERS: WATTS, AND BEECO.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire
Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM| JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
PLUMBING FIXTURE SCHEDULE

Sheet Number
P0.02



1 PLUMBING PLAN - OVERALL
1/16" = 1'-0"

KEYED NOTES - SHEET P2.01

1 CONNECT NEW 4" SANITARY, 2" COLD WATER AND 3" VENT TO EXISTING SANITARY, VENT AND WATER STACK IN EXISTING RESTROOMS. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND ELEVATION OF EXISTING SANITARY, VENT AND COLD WATER RISERS PRIOR TO NEW INSTALLATION.

2 ALL EXISTING PLUMBING LOCATED INSIDE THE HATCHED AREA IS EXISTING TO REMAIN.

3 ROUTE NEW INSULATED 3/4" CONDENSATE PIPING IN EXISTING WALL AND EXTEND TO EXISTING LAVATORY IN RESTROOM. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING WALL REPAIR REQUIREMENTS AND FINISHES PRIOR TO INSTALLATION.

4 EXTEND CONDENSATE WITH 1/2" INSULATION WRAP DOWN IN WALL AND CONNECT TO EXISTING LAVATORY TAILPIECE BELOW LAVATORY BOWL. CONTRACTOR TO FIELD VERIFY LOCATION OF CONNECTION TO EXISTING LAVATORY TAILPIECE PRIOR TO INSTALLATION.

5 FLOOR DRAIN TO SERVE CONDENSATE DRAIN PIPING FROM MECHANICAL EQUIPMENT. CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATION AND SPECIFICATION.

6 PROVIDE SCOPE COST TO ADD FLOOR SINK AND ASSOCIATED PIPING FOR CONDENSATE TO WALL MOUNTED SPLIT SYSTEM TO SERVE THIS ROOM. DISD IS IN PROCESS OF EVALUATING IF AC SYSTEM IS TO BE ADDED TO PROVIDE COOLING FOR IDF EQUIPMENT RACK IN THIS ROOM.

7 CONTRACTOR TO DEMO THE EXISTING COLD-WATER MAKE UP AND ASSOCIATED DRAIN LINE SERVING THE COOLING TOWERS AND REPLACE WITH A NEW COLD-WATER WITH AN RPZ-S, FLOW METER, DRAIN LINE AND SHUT-OFF VALVE OF THE SAME SIZE. CONTRACTOR TO FIELD VERIFY THE EXISTING MAKE-UP WATER LINE AND DRAIN LINE SIZES PRIOR TO THE NEW INSTALLATION. FLOW METER TO BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. CONTRACTOR TO REFER TO SHEET MEP7.02 FOR MAKE-UP WATER CONNECTIONS.

8 PROVIDE SCOPE COST TO INSTALL NEW SANITARY SEWER CLEAN-OUT AT EXISTING SINK. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND ROUTING OF EXISTING SANITARY SEWER PIPING SERVING SINK PRIOR TO NEW INSTALLATION.

9 PROVIDE SCOPE COST TO INSTALL NEW SANITARY SEWER CLEAN-OUT AT THE EXISTING URINAL IN EXISTING RESTROOM. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND ROUTING OF EXISTING SANITARY SEWER PIPING SERVING URINAL PRIOR TO NEW INSTALLATION.

10 2" VENT DOWN.

11 ROUTE NEW INSULATED 3/4" CONDENSATE PIPING IN EXISTING WALL AND EXTEND TO EXISTING FLOOR DRAIN IN EXISTING SPRINKLER ROOM. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING WALL REPAIR REQUIREMENTS AND FINISHES PRIOR TO INSTALLATION.

12 FLOOR SINK TO SERVE CONDENSATE DRAIN PIPING FROM MECHANICAL EQUIPMENT. CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATION AND SPECIFICATION.

13 PROVIDE SCOPE COST TO ADD NEW WASHER AND DRYER CONNECTION AND ASSOCIATED PIPING IN ONE OF THE FOLLOWING ROOMS; ROOM 132, 133, 134, 135. LOCATION AND EXISTING CONDITIONS TO BE DETERMINED PRIOR TO INSTALLATION.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

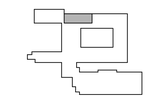
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

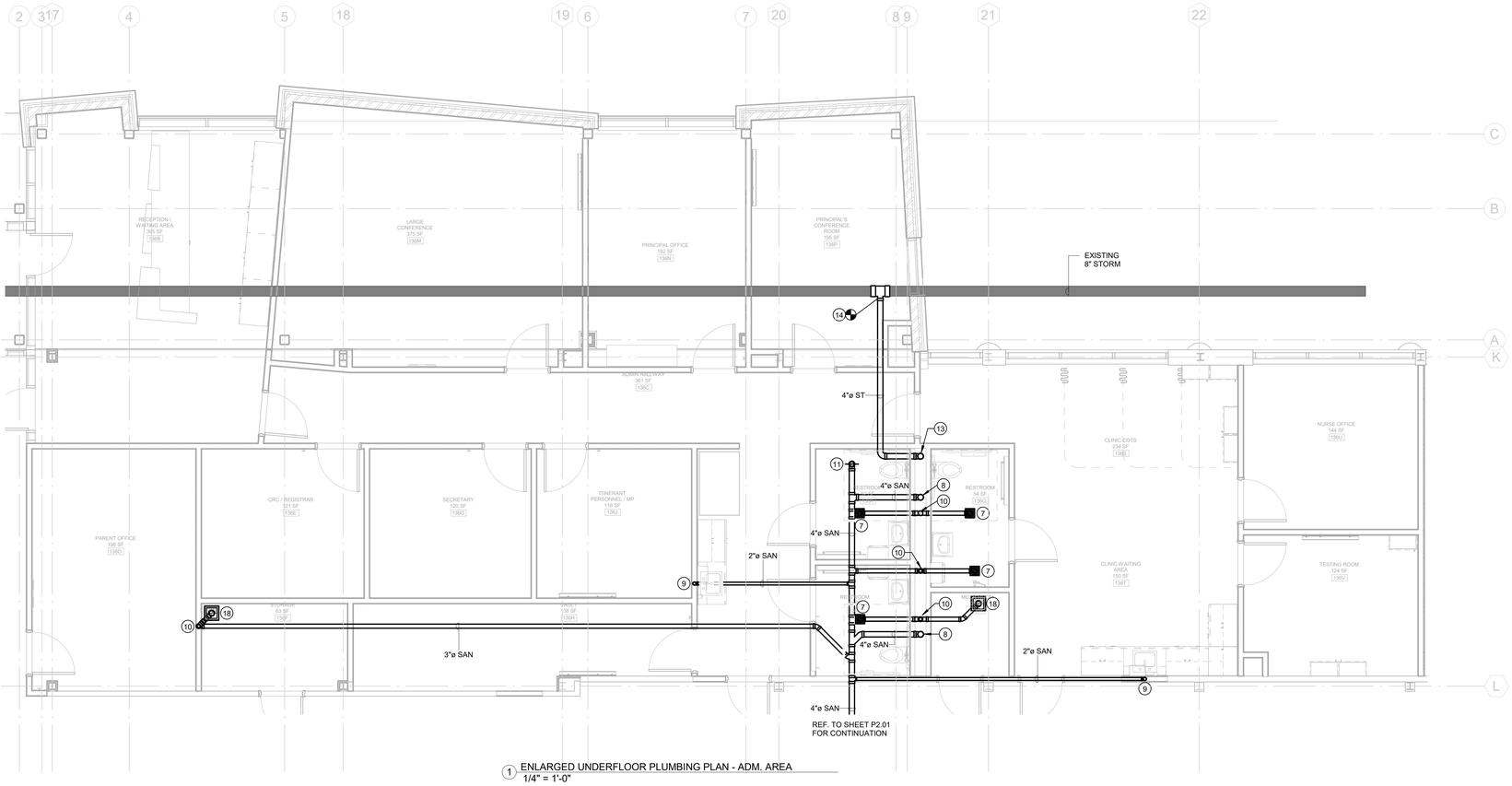
Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN

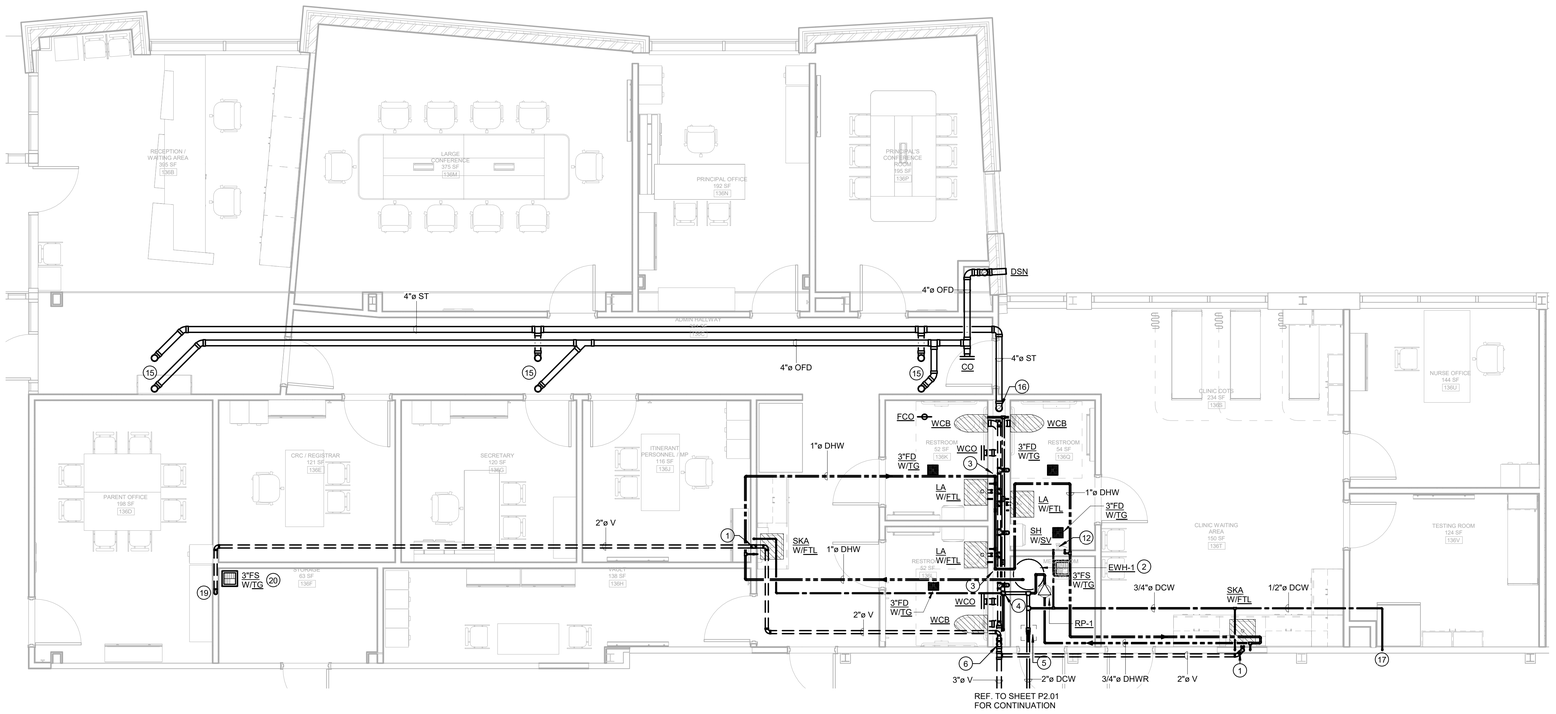


Sheet Title
PLUMBING PLAN - OVERALL

Sheet Number
P2.01



1 ENLARGED UNDERFLOOR PLUMBING PLAN - ADM. AREA
1/4" = 1'-0"



2 ENLARGED PLUMBING PLAN - ADM. AREA
1/4" = 1'-0"

KEYED NOTES - SHEET P3.01

1 2" SANITARY, 2" VENT, 1/2" HOT AND COLD WATER TO SERVE SINK.
2 ELECTRIC 50 GALLON WATER HEATER (EWH-1) TO SERVE THE RESTROOM AND CLINIC HOT WATER FIXTURES. REFER TO DETAIL 11 ON SHEET P5.01 FOR WATER HEATER PIPING INSTALLATION DETAIL AND SHEET P6.01 FOR WATER HEATER SPECIFICATION.
3 1" CIRCULATED HOT WATER PIPING DOWN IN CHASE TO SERVE LAVATORIES.
4 2" COLD WATER DOWN WITH ACCESSIBLE SHUT-OFF VALVE TO SERVE RESTROOM FIXTURES.
5 ACCESSIBLE SHUT-OFF VALVE WITH ACCESS PANEL IN CEILING.
6 3" VENT DOWN.
7 3" SANITARY UP TO FLOOR DRAIN.
8 4" SANITARY UP TO SERVE PLUMBING FIXTURES IN CHASE.
9 2" SANITARY UP TO SERVE SINK.
10 2" VENT UP.
11 4" SANITARY UP TO FLOOR CLEANOUT (FCO).
12 1/2" HOT AND COLD WATER DOWN TO SHOWER MIXING VALVE (SV) TO SERVE SHOWER.
13 4" STORM UP INTO RESTROOM CHASE.
14 CONNECT NEW 4" STORM TO EXISTING STORM MAIN ON SITE. CONTRACTOR TO FIELD VERIFY LOCATIO, SIZE AND ELEVATION OF EXISTING STORM MAIN PRIOR TO NEW INSTALLATION.
15 4" STORM AND 4" STORM OVERFLOW UP TO ROOF DRAINS.
16 4" STORM DOWN IN RESTROOM CHASE.
17 PROVIDE COLD WATER WITH VALVE AND EXTEND 1/4" COPPER TUBING TO REFRIGERATOR/ICE MAKER.
18 3" SANITARY UP TO FLOOR SINK.
19 2" VENT DOWN.
20 FLOOR SINK TO SERVE CONDENSATE DRAIN PIPING FROM MECHANICAL EQUIPMENT. CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATION AND SPECIFICATION.

GENERAL PLUMBING NOTES:

- INSTALL A POINT OF USE (ASSE 1070 COMPLIANT) THERMOSTATIBC MIXING VALVE PRIOR TO CONNECTION TO HOT WATER FIXTURES.
- INSTALL CLEANOUTS BEFORE THE 90 DEGREE TURN DOWN FROM THE CEILING PLENUM AND BEFORE THE 90 DEGREE BEND TO TURN UNDERGROUND ON ALL SANITARY SEWER PIPING.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 8000
Dallas, TX 75248-1147
Firm Registration # F-1511
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

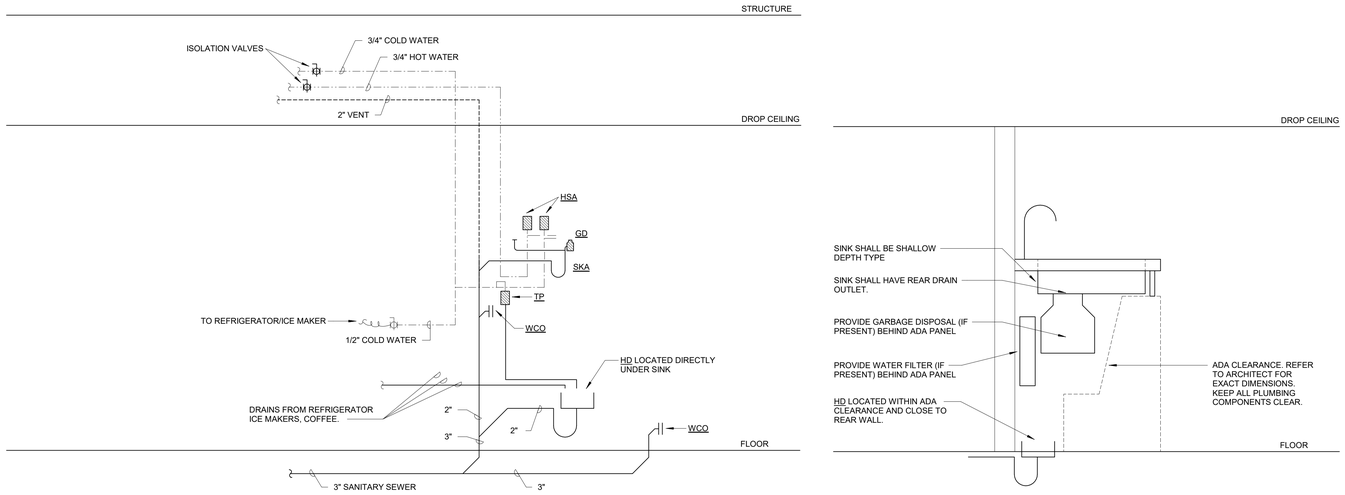
Project Number
2022.012
Issue Date
10.22.25
Revised:

KEYPLAN



Sheet Title
PLUMBING
ENLARGED PLAN

Sheet Number
P3.01



1 PLUMBING TYPICAL BREAKROOM SINK PLUMBING RISER - CONNECTED TO CIRCULATED HOT WATER LOOP
NOT TO SCALE

PLUMBING RISER GENERAL NOTES

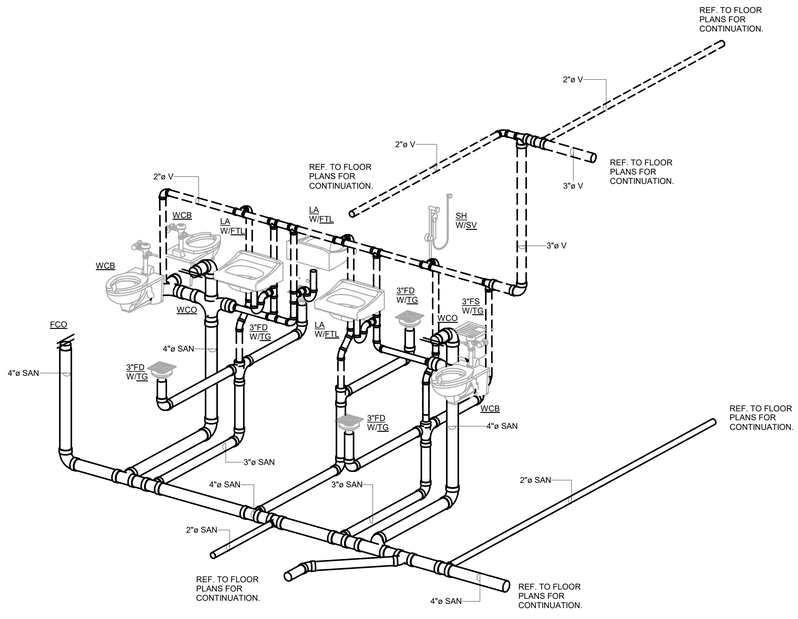
1 NOT ALL P-TRAPS MAY BE SHOWN IN THE RISER DIAGRAMS, HOWEVER THE PLUMBING CONTRACTOR SHALL PROVIDE P-TRAPS FOR ALL FLOOR DRAINS, FLOOR SINKS, LAVATORIES, SINKS, MOP SINKS, ETC.

2 REFER TO PLUMBING ROUGH-IN SCHEDULE ON THIS SHEET AND/OR ON THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL SIZES TO FIXTURES, ONLY BRANCH SIZES ARE SHOWN ON THE PLANS AND RISERS.

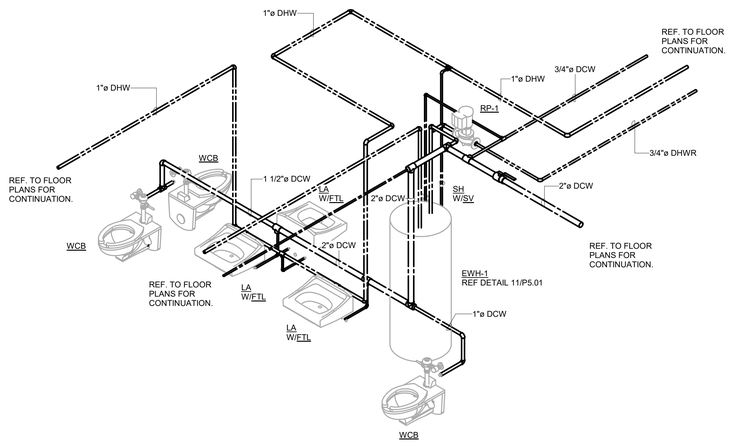
PLUMBING ROUGH-IN SIZES

DESIGN.	ROUGH-IN CONNECTION SIZES			
	DCW	DHW	SAN	VENT
WCA / WCB(ADA)	REF: FVW	-	4"	2"
FVW	1"	-	-	-
LA	REF: FTL	REF:FTL	2"	1-1/2"
FTL	1/2"	1/2"	-	-
SKA	REF: FTS	REF: FTS	2"	1-1/2"
FTS	1/2"	1/2"	-	-
SH (ADA)	1/2"	1/2"	REF: SD	REF: SD
SV	1/2"	1/2"	REF: SD	REF: SD
SD	-	-	2"	2"
HB	3/4"	-	-	-
DSN	-	-	-	-
RD	-	-	REF: PLANS	REF: PLANS
OFD	-	-	REF: PLANS	REF: PLANS
HD	-	-	REF: PLANS	REF: PLANS
FD	-	-	3"	2"
FS	-	-	4"	2"
FCO	-	-	REF: PLANS	-
WCO	-	-	REF: PLANS	-
WMB	1/2"	1/2"	2"	2"
HSA	REF: PLANS	REF: PLANS	-	-
VTR	-	-	-	REF: PLANS
TG	-	-	REF: FDx	-
WF	1/2"	-	-	-
WF	1/2"	-	-	-
AG	-	-	REF: EQUIPMENT	-
BFP	REF: PLANS	REF: PLANS	VARIES	-
RPZ-S	REF: PLANS	REF: PLANS	-	-
TMV	REF: PLANS	REF: PLANS	-	-
TMV ACCEPTABLE ALTERNATE	REF: PLANS	REF: PLANS	-	-

CITY OF DALLAS STAMP



2 RESTROOMS WASTE & VENT PLUMBING RISER



3 RESTROOMS WATER PIPING PLUMBING RISER

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PM/ JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

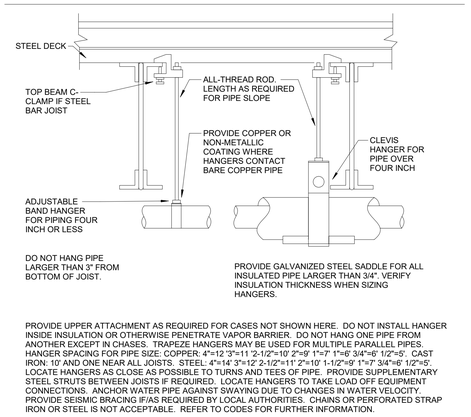
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

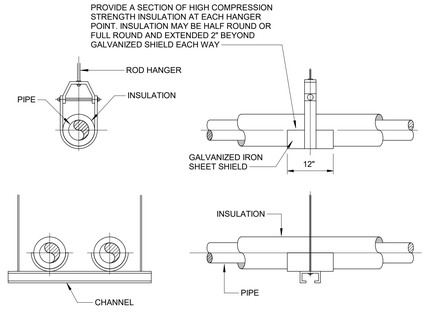
Sheet Title
PLUMBING RISERS

Sheet Number
P4.01

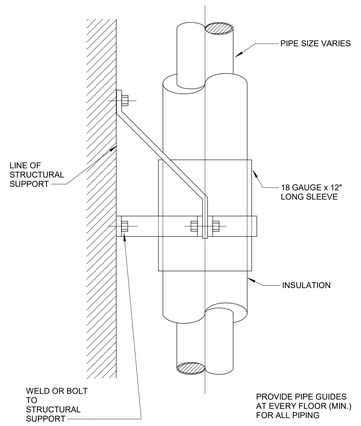


PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12'3"=11'2-1/2"=10'2"=9' 1"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOISTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

1 PIPE INSULATION/HANGER DETAIL
NOT TO SCALE



2 PIPE HANGING SUPPORT DETAILS
NOT TO SCALE



3 PIPING SUPPORT
NOT TO SCALE



SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

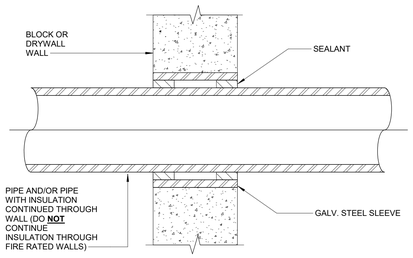
MULTIPLE FIXTURES

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER/BATHTUB	2	2

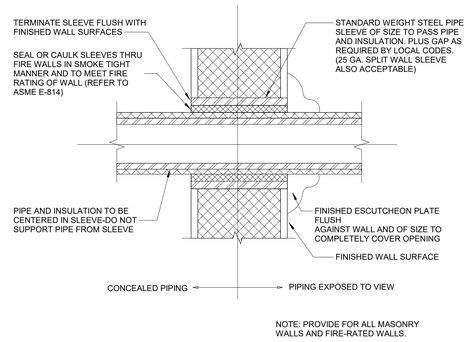
PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

4 WATER HAMMER ARRESTOR
NOT TO SCALE

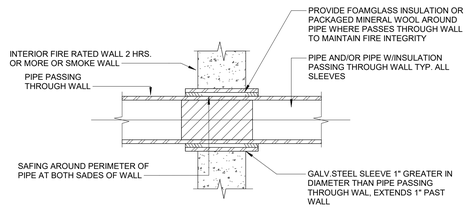
CITY OF DALLAS STAMP



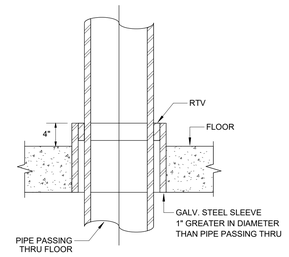
5 PIPE SLEEVE DETAIL
NOT TO SCALE



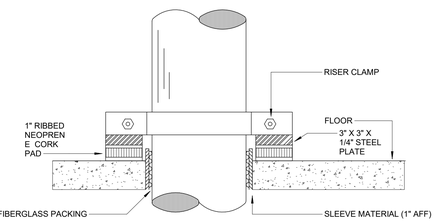
6 PIPE SLEEVE INTERIOR WALLS
NOT TO SCALE



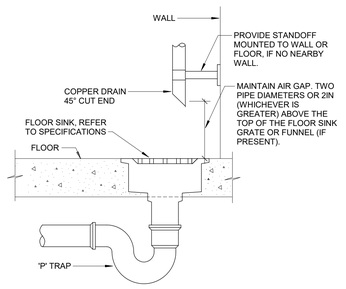
7 FIRE RATED PIPE SLEEVE DETAIL
NOT TO SCALE



8 TYPICAL FIRE RATED SLAB PENETRATION DETAIL
NOT TO SCALE



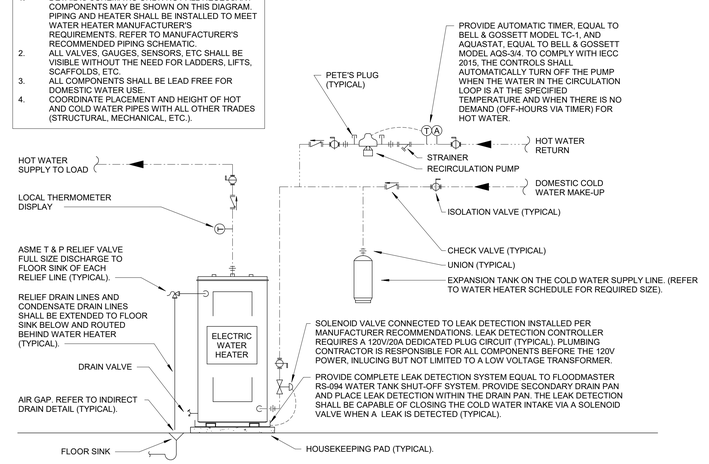
9 RISER CLAMP DETAIL
NOT TO SCALE



10 INDIRECT WASTE DETAIL
NOT TO SCALE

GENERAL NOTES:

1. DETAIL IS SCHEMATIC ONLY. NOT ALL NECESSARY COMPONENTS MAY BE SHOWN ON THIS DIAGRAM. PIPING AND HEATER SHALL BE INSTALLED TO MEET WATER HEATER MANUFACTURER'S REQUIREMENTS. REFER TO MANUFACTURER'S RECOMMENDED PIPING SCHEMATIC.
2. ALL VALVES, GAUGES, SENSORS, ETC SHALL BE VISIBLE WITHOUT THE NEED FOR LADDERS, LIFTS, SCAFFOLDS, ETC.
3. ALL COMPONENTS SHALL BE LEAD FREE FOR DOMESTIC WATER USE.
4. COORDINATE PLACEMENT AND HEIGHT OF HOT AND COLD WATER PIPES WITH ALL OTHER TRADES (STRUCTURAL, MECHANICAL, ETC.).



11 WATER HEATER DETAIL - SINGLE ELECTRIC UNIT
NOT TO SCALE

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

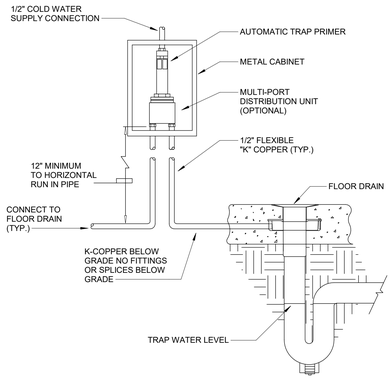
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

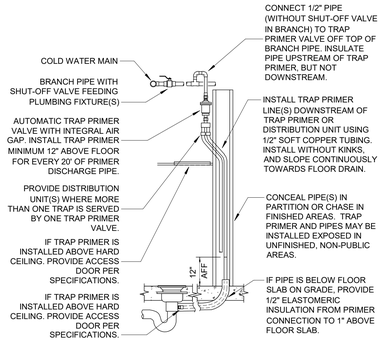
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
PLUMBING DETAILS

Sheet Number
P5.01



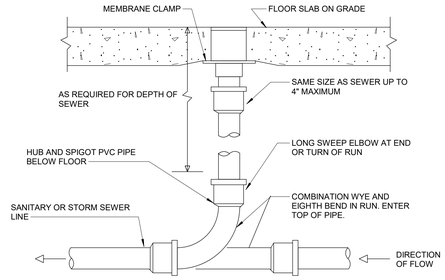
1 TRAP PRIMER
NOT TO SCALE



PROVIDE TRAP PRIMERS WHERE SHOWN ON FLOOR PLANS, AND WHERE REQUIRED BY LOCAL AUTHORITIES. PIPING ARRANGEMENT SHOWN IS SCHEMATIC: ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS AND PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION. INSTALL TRAP PRIMER VALVE AND DISTRIBUTION UNIT PER MANUFACTURER'S RECOMMENDATIONS.

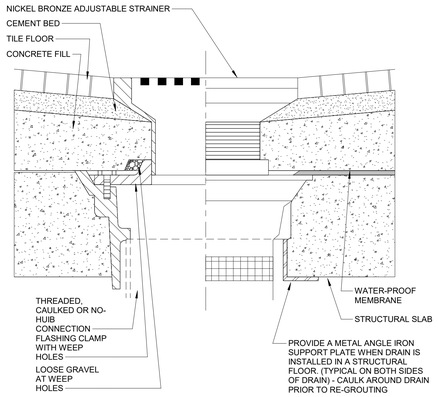
2 TRAP PRIMER OVERHEAD DETAIL
NOT TO SCALE

PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE BRONZE PLUG IN PVC BODY.

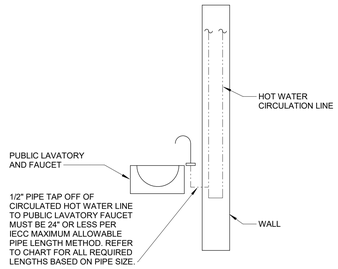


LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATED CLEARNOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

3 FLOOR CLEANOUT DETAIL
NOT TO SCALE



4 FLOOR DRAIN/SINK SUPPORT DETAIL
NOT TO SCALE

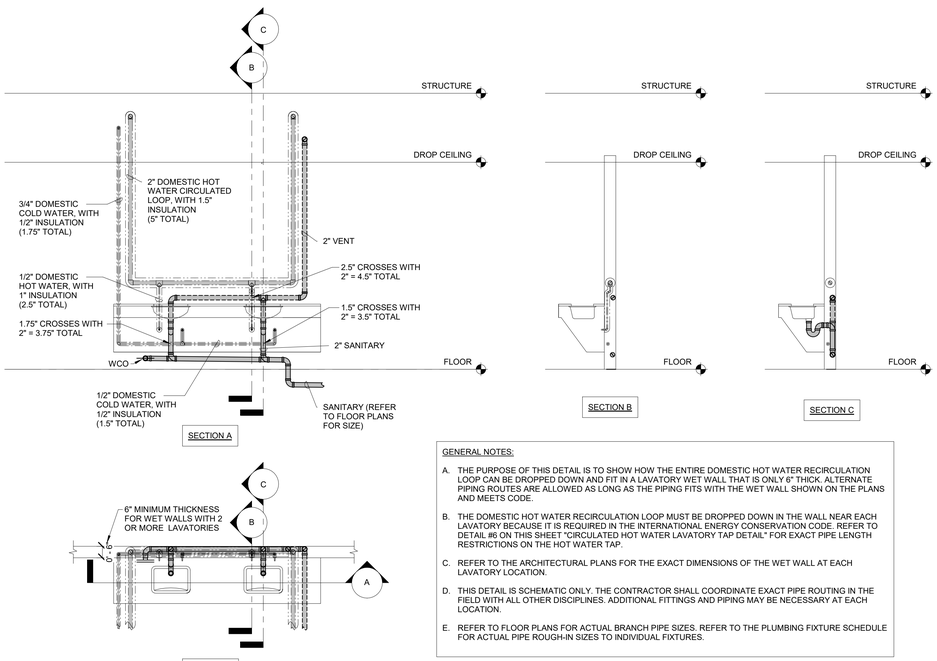


5 CIRCULATED HOT WATER LAVATORY TAP DETAIL
NOT TO SCALE

IECC 2015/2018, TABLE C404.5.1
PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (feet)	
		Public Lavatory Faucets	Other Fixtures and Appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1-1/4	8	0.5	8
1-1/2	11	0.5	6
2 or larger	18	0.5	4

For SI: 1 inch = 25.4mm, 1 foot = 304.8mm, 1 liquid ounce = 0.030L, 1 gallon = 128 ounces.



GENERAL NOTES:

A. THE PURPOSE OF THIS DETAIL IS TO SHOW HOW THE ENTIRE DOMESTIC HOT WATER RECIRCULATION LOOP CAN BE DROPPED DOWN AND FIT IN A LAVATORY WET WALL THAT IS ONLY 6" THICK. ALTERNATE PIPING ROUTES ARE ALLOWED AS LONG AS THE PIPING FITS WITH THE WET WALL SHOWN ON THE PLANS AND MEETS CODE.

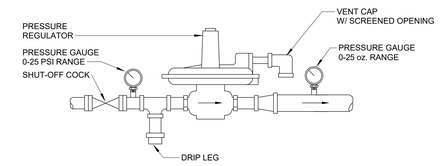
B. THE DOMESTIC HOT WATER RECIRCULATION LOOP MUST BE DROPPED DOWN IN THE WALL NEAR EACH LAVATORY BECAUSE IT IS REQUIRED IN THE INTERNATIONAL ENERGY CONSERVATION CODE. REFER TO DETAIL #6 ON THIS SHEET "CIRCULATED HOT WATER LAVATORY TAP DETAIL" FOR EXACT PIPE LENGTH RESTRICTIONS ON THE HOT WATER TAP.

C. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE WET WALL AT EACH LAVATORY LOCATION.

D. THIS DETAIL IS SCHEMATIC ONLY. THE CONTRACTOR SHALL COORDINATE EXACT PIPE ROUTING IN THE FIELD WITH ALL OTHER DISCIPLINES. ADDITIONAL FITTINGS AND PIPING MAY BE NECESSARY AT EACH LOCATION.

E. REFER TO FLOOR PLANS FOR ACTUAL BRANCH PIPE SIZES. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR ACTUAL PIPE ROUGH-IN SIZES TO INDIVIDUAL FIXTURES.

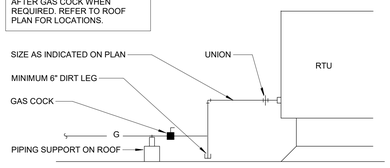
6 CIRCULATED DOMESTIC HOT WATER LAVATORY PIPING DIAGRAM - 6" THICK WALL
NOT TO SCALE



PROVIDE SUPPORT FOR PIPE AND REGULATOR.

7 GAS PRESSURE REGULATOR DETAIL
NOT TO SCALE

PROVIDE GAS REGULATOR AFTER GAS COCK WHEN REQUIRED. REFER TO ROOF PLAN FOR LOCATIONS.



8 RTU GAS PIPING CONNECTION DETAIL
NOT TO SCALE

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
PLUMBING DETAILS

Sheet Number
P5.02

WATER HEATER SCHEDULE

DESIGNATION	TYPE	SERVES	STORAGE CAPACITY (GALLONS)	RECOVERY (GPH/GPM)	AVERAGE GROUND WATER (°F) (ENTERING WATER TEMPERATURE)	DEGREE RISE (°F)	MINIMUM SETPOINT (°F) (LEAVING WATER TEMPERATURE)	ELECTRICAL				EFFICIENCY	PHYSICAL		BASIS OF DESIGN		NOTES
								INPUT (WATTS)	VOLTAGE	PHASE	FULL LOAD AMPS		DIMENSIONS	WEIGHT (LBS)	MANUFACTURER	MODEL	
EWH-1	ELECTRIC	2 HANDHELD SHOWERS, 4 LAVATORIES, 2 SINKS AND 1 MOP SINK.	50	58 GPH	62 - 67	85	140	12,000	480	3	15	99%	21.75" DIAMETER 55.75" HEIGHT	395	A.O. SMITH	DVE-52-12.3 GOLD XI SERIES	NOTE 1 & 2

GENERAL NOTES (APPLIES TO ALL):
- A REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- B EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.
- C WATER HEATER SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM.
- D SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:
  - A. A.O. SMITH WATER PRODUCTS
  - B. LOCHINVAR
  - C. RBI WATER HEATERS
- E ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

NOTES:
1. PROVIDE SOLENOID VALVE AND LEAK DETECTION. COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR.
2. FOR ELECTRIC TANK WATER HEATERS, UPPER AND LOWER ELEMENTS TO BE WIRED FOR BOTH INDEPENDANT AND SIMULTANEOUS OPERATION.
6. PROVIDE THIS HEATER WITH THE MANUFACTURER'S INTEGRAL DISCONNECT, EQUAL TO "CHRONOMITE DISCONNECT SWITCH, ROTARY 40A – LOCKABLE NEMA 4X (2095-01)"
7. HEATER SHALL HAVE FIELD ADJUSTABLE TEMPERATURE OUTPUT. EQUAL TO "CHRONOMITE FIELD ADJUSTABLE TEMPERATURE (ADJ)".
8. PROVIDE HEATER WITH RECESSED WALL BOX, EQUAL TO "CHRONOMITE INVIZIBLE (Z-S1616D)" WITH OVERALL DIMENSIONS 16-1/2" X16-1/2" x 5-1/4". CONCEALED WALL BOX SHALL HOUSE HEATER AND ELECTRICAL DISCONNECT BEHIND A PANEL IN THE WALL.

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE

DESIG.	SERVES	TYPE	GPM	HEAD (FT)	MOTOR DATA			BASIS OF DESIGN		ELECTRICAL				NOTES
					HP	RPM	VFD	MANUFACTURER	MODEL	VOLT	PH	FULL LOAD AMPS (FLA)	MAXIMUM OVERCURRENT PROTECTION DEVICE (MOCP)	
RP-1	EWH-1	POTABLE WATER	5	10	1/12	2174	YES	BELL & GOSSETT (B&G)	ECOCIRC 19-16, HARDWIRED	120	1	4-60 W	20A/1P CIRCUIT BREAKER SIZE	ALL

GENERAL NOTES (APPLIES TO ALL):
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS
2. SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, APPROVED MANUFACTURERS ARE: B&G, PACO/GRUNDFOS, TACO, ARMSTRONG.
3. ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.
4. ALL PUMPS IN POTABLE WATER APPLICATIONS SHALL BE NSF 61 CERTIFIED LEAD FREE AND OF ALL BRONZE OR STAINLESS STEEL CONSTRUCTION.
5. PROVIDE MOTOR RATED CONNECTION SWITCH (FOR HARDWIRED PUMPS) OR A RECEPTACLE (FOR PLUG-IN PUMPS) AT UNIT FOR LOCAL MEANS OF DISCONNECT. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.
6. PROVIDE AUTOMATIC TIMER KIT AND AQUASTAT TO MEET IECC 2015+ COMPLIANCE.

EXPANSION TANK SCHEDULE

DESIGNATION	TYPE	SERVES	TANK TOTAL VOLUME (GAL)	TANK ACCEPTANCE VOLUME (GAL)	MAXIMUM PRESSURE (PSI)	MAXIMUM OPPERATING TEMPERATURE (°F)	PHYSICAL		MOUNTING	BASIS OF DESIGN		NOTES
							DIMENSIONS	FILLED WEIGHT (LBS)		MANUFACTURER	MODEL	
ET-1	BLADDER	EWH-1	3.5	2.3	150	240	10" DIAMETER 14" HEIGHT	22	HUNG	WATTS	DELTA-5	

GENERAL NOTES (APPLIES TO ALL):
- A REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- B EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.
- C EXPANSION TANK SHALL BE ASME RATED.
- D EXPANSION TANK SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM.
- E PLUMBING CONTRACTOR SHALL SET THE EXPANSION TANK PRESSURE CHARGE IN THE FIELD BASED ON THE PRESSURE OF THE COMPLETED SYSTEM FULLY INSTALLED WITH INCOMING CITY PRESSURE CONNECTED. PLUMBING CONTRACTOR SHALL FOLLOW MANUFACTURERS INSTRUCTIONS FOR SETTING THIS CHARGE IN THE FIELD. THE EXPANSION TANK SHALL NOT BE LEFT AT THE FACTORY PRE-CHARGE SETTING OF 40 PSI.
- F SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:
  - A. WATTS
  - B. AMTROL
  - C. BELL & GOSSETT (B&G)
  - D. SAME MANUFACTURER AS THE SPECIFIED WATER HEATER
- G ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

NOTES:
1. NOT USED.

Plumbing Equipment Extended Warranty Schedule - DISD Requirements		
Spec Section		
	Product	**Extended Warranty Description**
Division 22 - Pumbing		
220513	Variable frequency drives	30 months parts and labor for all components
220533	Electric heating cables	2 years parts and labor
223300	Commercial electric water heaters - Tank type	5 years parts and labor resulting from tank leaks.

Notes:
1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.
2. Extended warranties listed above also begin at the date of substantial completion.
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

STATE OF TEXAS
D. SCOTT BROWN
89097
LICENSED
PROFESSIONAL ENGINEER
10-22-2025

©2023 Purdy - McGuire

Mechanical - Electrical Engineers
17300 North Dallas Parkway
Suite 3000
Dallas, TX 75248-1147
Firm Registration # F-1311
Tel: 972/239-5357
Fax: 972/239-5231
www.purdy-mcguire.com

PMI JOB NO. 23000.001
PROJECT MGR. SCOTT BROWN/MITCHELL HENTON
MECHANICAL BRUCE ISONHART
PLUMBING CHRIS WOODYARD
ELECTRICAL KYLE ROURKE

THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX

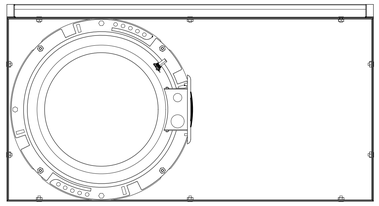
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
CONSTRUCTION DOCUMENTS

© CaCo Architecture LLC

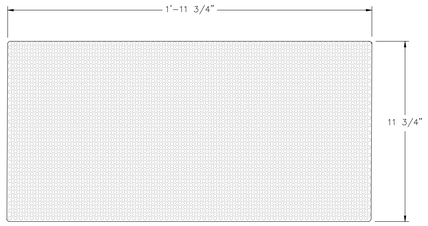
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
PLUMBING SCHEDULES

Sheet Number
P6.01



TOP VIEW

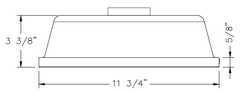


FRONT VIEW

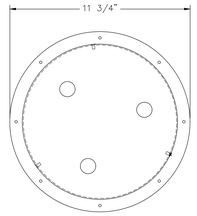
1 DETAIL - EC CEILING SPEAKER (S1)

SCALE: N.T.S.

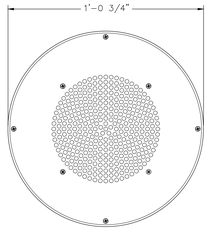
NOTE:
TYPICAL FOR LAY-IN CEILING LOCATIONS.



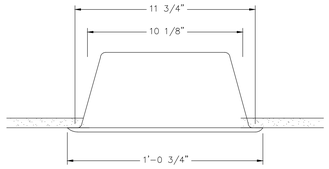
SIDE VIEW



TOP VIEW



FRONT VIEW

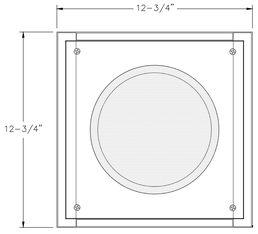


SIDE VIEW

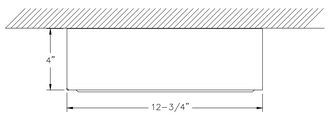
4 DETAIL - EC CEILING SPEAKER (S2)

SCALE: N.T.S.

NOTE:
TYPICAL FOR GYPSUM BOARD CEILING LOCATIONS. PROVIDE CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING.



FRONT VIEW

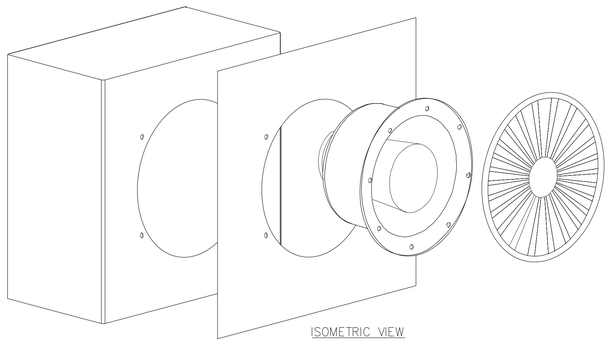


SIDE VIEW

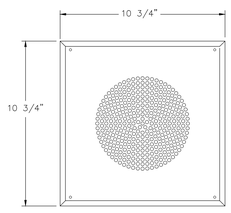
2 DETAIL - EC CEILING SPEAKER (S3)

SCALE: N.T.S.

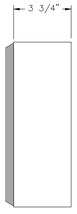
NOTE:
TYPICAL FOR PLASTER CEILING LOCATIONS. PROVIDE CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING.



ISOMETRIC VIEW



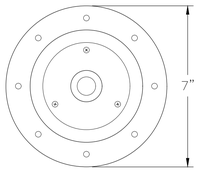
FRONT VIEW



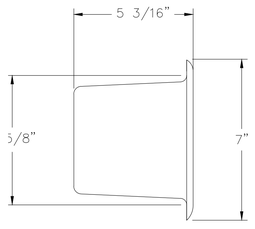
SIDE VIEW

3 DETAIL - EC WALL-MOUNTED SPEAKER (S1)

SCALE: N.T.S.



FRONT VIEW



SIDE VIEW

5 DETAIL - EC PAGING HORN (PH)

SCALE: N.T.S.

SYMBOLS LEGEND

- (SX) ELECTRONIC COMMUNICATIONS CEILING LOUDSPEAKER. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. X INDICATES SPEAKER TYPE.
- (S1) ELECTRONIC COMMUNICATIONS WALL LOUDSPEAKER. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE SINGLE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT 8'-0" ABOVE FINISHED FLOOR TO BOTTOM OF SPEAKER UNLESS OTHERWISE NOTED.
- (PM) ELECTRONIC COMMUNICATIONS MIC/AUX INPUT PLATE. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE DOUBLE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT AT STANDARD OUTLET HEIGHT TO CENTER OF BACKBOX.
- (P) ELECTRONIC COMMUNICATIONS ADMIN PHONE PLATE. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE SINGLE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT AT STANDARD OUTLET HEIGHT TO CENTER OF BACKBOX.
- (CP) ELECTRONIC COMMUNICATIONS CONTROL PANEL. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE THREE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT AT STANDARD SWITCH HEIGHT TO CENTER OF BACKBOX.
- (CB) ELECTRONIC COMMUNICATIONS CALL BUTTON. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE SINGLE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT AT STANDARD SWITCH HEIGHT TO CENTER OF BACKBOX.
- (VC) ELECTRONIC COMMUNICATIONS VOLUME CONTROL. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE SINGLE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT AT STANDARD SWITCH HEIGHT TO CENTER OF BACKBOX.
- (PH) ELECTRONIC COMMUNICATIONS PAGING HORN. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS. PROVIDE SINGLE GANG WALL BOX AND CONDUIT STUB-OUT TO ACCESSIBLE CEILING. MOUNT 10'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- (B) CLOCK BELL. MOUNTED 12" ABOVE FINISHED CEILING. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS.
- (C1) TYPE 1 WALL MOUNTED CLOCK. MOUNTED 8'-0" ABOVE FINISHED FLOOR. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS.
- (C2) TYPE 2 WALL MOUNTED CLOCK. MOUNTED 8'-0" ABOVE FINISHED FLOOR. REFERENCE SPECIFICATION SECTION 27 45 00 FOR SPECIFIC PRODUCTS AND SYSTEM COMPONENTS.
- ELECTRONIC COMMUNICATIONS WIRING.
- ELECTRONIC COMMUNICATIONS WIRING HOMERUN.
- CONDUIT SLEEVE. SIZE AS SHOWN ON DRAWINGS.

GENERAL NOTES

1. ALL CONDUIT ON THE EC SERIES DRAWINGS SHALL BE METALLIC TYPE EMT OR RIGID METAL, WITH THE SIZE SHOWN ON DRAWINGS. IF SIZE IS NOT SHOWN, CONDUIT SHALL BE 3/4" DIAMETER. ALL CONDUIT SHALL BE DEBURRED, CLEANED, FURNISHED WITH PULL WIRES AND CAPPED, AND TAGGED. PROVIDE BUSHINGS FOR ALL CONDUIT STUB-OUTS.
2. REMOVE ALL EXISTING EC SYSTEM EQUIPMENT AND WIRING. RETURN EXISTING EQUIPMENT TO THE OWNER.
3. NO CABLE IN CONDUIT SHALL BE SPLICED.
4. SUPPORT CABLING AT A MAXIMUM OF 5'-0".
5. THE ELECTRICAL CONTRACT INCLUDES INSTALLATION OF ALL CONDUIT, WIREWAYS; FLOOR, WALL, PULL, AND JUNCTION BOXES; METAL SPEAKER BACK BOXES, AND AC POWER AND GROUND WIRING, PERMANENTLY INSTALLED IN THE BUILDING OR IN ARCHITECTURAL MILLWORK, AS SHOWN ON THE DRAWINGS. NO TECHNICAL SYSTEM CABLE OR FINISH WALL PLATES ARE INCLUDED; HOWEVER, COVER PLATES AND DOORS FURNISHED WITH JUNCTION BOXES ARE INCLUDED.
6. WHERE EXACT DIMENSIONS ARE NOT CALLED OUT, THE SCALE OF THESE DRAWINGS IS SUFFICIENTLY ACCURATE TO DETERMINE THE LOCATION OF JUNCTION BOXES, WALL OR FLOOR BOXES, WIREWAYS, ETC. ROOM DIMENSIONS AND DETAILS HAVE BEEN TAKEN FROM ARCHITECTURAL DRAWINGS. THIS IS NOT AN ARCHITECTURAL DRAWING AND ARCHITECTURAL DRAWINGS ONLY MUST BE CONSULTED FOR EXACT DIMENSIONS AND DETAILS. BRING ANY SIGNIFICANT DISCREPANCIES PROMPTLY TO THE ATTENTION OF THE ARCHITECT.
7. INSTALL AC POWER CONDUIT STRICTLY IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE CODES.
8. PLATES FURNISHED UNDER THE EC SYSTEM CONTRACT ARE INTENDED TO MATE WITH THE MATCHING JUNCTION BOX. IF SITE CONDITIONS REQUIRE INSTALLATION OF THE SPECIFIED JUNCTION BOX BACK FROM THE WALL, FLOOR, OR CEILING SURFACE, FURNISH AND INSTALL PLASTER RINGS OR EXTENDERS TO MAINTAIN THE INTEGRITY OF THE METAL ENCLOSURE AND MOUNT THE PLATE DIRECTLY.
9. FOR SURFACE MOUNTED BOXES WITH CONNECTORS PROVIDE MASONRY BOX SO THE EDGE OF PLATE IS FLUSH WITH EDGE OF PLATE.
10. PROVIDE ALL NEW WIRING AND DEVICES FOR THE NEW SYSTEM.
11. ELECTRONIC COMMUNICATIONS SYSTEM CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXISTING PA SYSTEM UPON COMPLETION OF INSTALLATION OF THE NEW SYSTEM AND VERIFICATION THAT IT IS FUNCTIONING PROPERLY.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRONIC COMMUNICATIONS NOTES, LEGEND & DETAILS

Sheet Number
EC0.01



1 SITE PLAN
1" = 30'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. THE ENTIRE ELECTRONIC COMMUNICATIONS SYSTEM IS BEING REPLACE. REMOVE ALL SPEAKERS, CALL BUTTONS AND WIRING AND RETURN TO THE DISD NETWORK DEPARTMENT.
2. ELECTRONIC COMMUNICATIONS HEADEND TO BE LOCATED IN THE MDF.
3. IN HARD CEILING AREAS PLACE NEW SPEAKERS IN EXISTING SPEAKER LOCATION. REPAIR, PATCH AND PAINT ANY DAMAGE TO THE CEILING.
4. PLACE NEW CALL BUTTONS AND CLOCKS IN LOCATIONS INDICATED. REPAIR, PATCH AND PAINT LOCATIONS WHERE EXISTING DEVICES ARE REMOVED.
5. MOUNT NEW ELECTRONIC COMMUNICATIONS SYSTEM EQUIPMENT IN THE EXISTING EQUIPMENT RACKS LOCATED IN THE DESIGNATED DATA CLOSET.

LEGEND

- (S1) ELECTRONIC COMMUNICATIONS CEILING LOUDSPEAKER.
- (S1) ELECTRONIC COMMUNICATIONS WALL-MOUNTED LOUDSPEAKER.
- (PH) ELECTRONIC COMMUNICATIONS PAGING HORN.
- (CB) ELECTRONIC COMMUNICATIONS CALL BUTTON.
- (VC) ELECTRONIC COMMUNICATIONS VOLUME CONTROL.
- (P) ELECTRONIC COMMUNICATIONS ADMIN PHONE PLATE.
- (C1) TYPE 1 WALL-MOUNTED CLOCK.
- (C2) TYPE 2 WALL-MOUNTED CLOCK.

KEYED NOTES

KEYPLAN

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

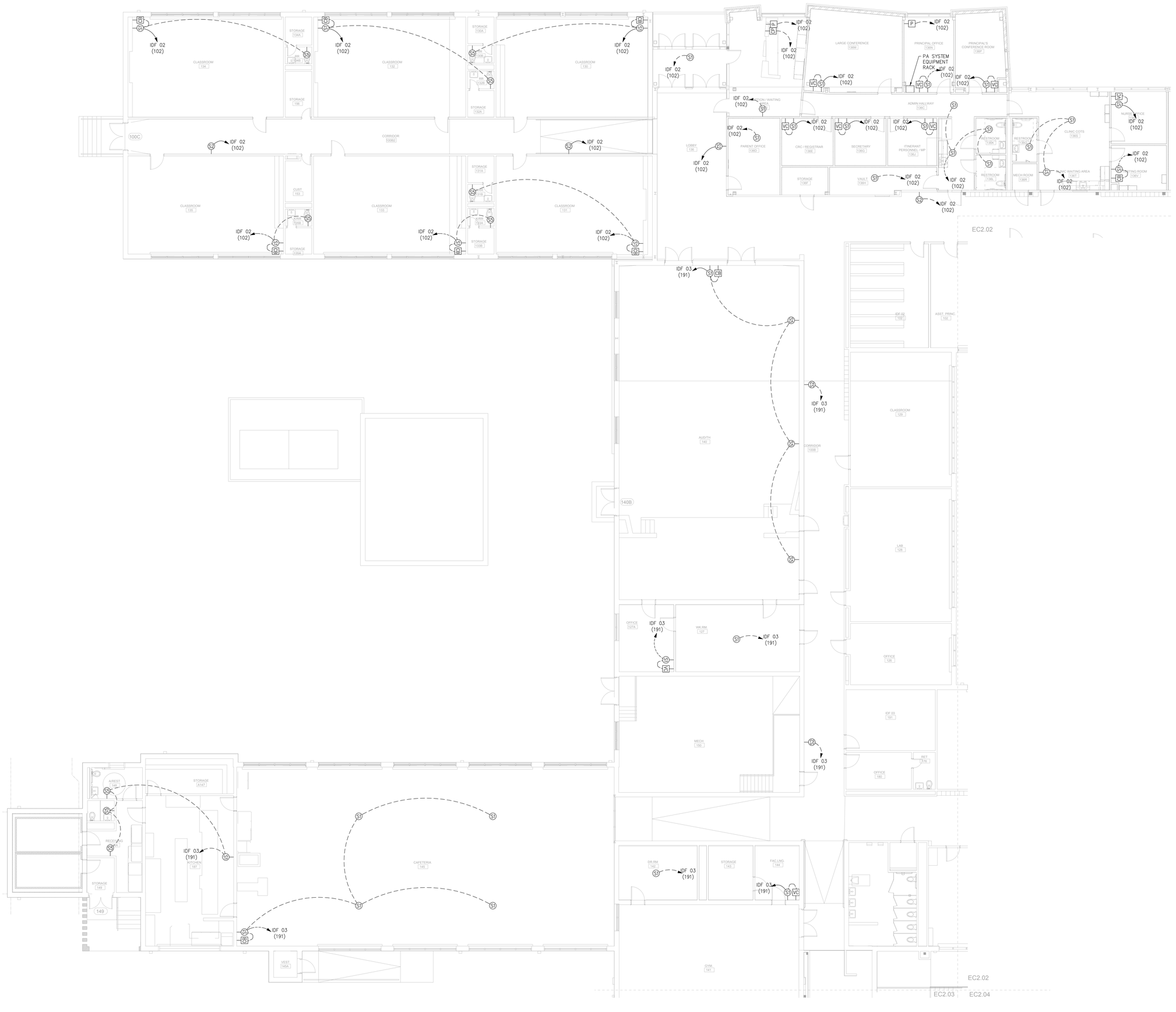
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
SITE PLAN

Sheet Number
EC1.00



CITY OF DALLAS STAMP

GENERAL NOTES

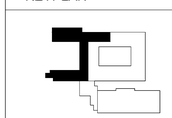
1. THE ENTIRE ELECTRONIC COMMUNICATIONS SYSTEM IS BEING REPLACE. REMOVE ALL SPEAKERS, CALL BUTTONS AND WIRING AND RETURN TO THE DISD NETWORK DEPARTMENT.
2. ELECTRONIC COMMUNICATIONS HEADEND TO BE LOCATED IN THE MDF.
3. IN HARD CEILING AREAS PLACE NEW SPEAKERS IN EXISTING SPEAKER LOCATION. REPAIR, PATCH AND PAINT ANY DAMAGE TO THE CEILING.
4. PLACE NEW CALL BUTTONS AND CLOCKS IN LOCATIONS INDICATED. REPAIR, PATCH AND PAINT LOCATIONS WHERE EXISTING DEVICES ARE REMOVED.
5. MOUNT NEW ELECTRONIC COMMUNICATIONS SYSTEM EQUIPMENT IN THE EXISTING EQUIPMENT RACKS LOCATED IN THE DESIGNATED DATA CLOSET.

LEGEND

- (S1) ELECTRONIC COMMUNICATIONS TYPE 1 CEILING LOUDSPEAKER.
- (S2) ELECTRONIC COMMUNICATIONS TYPE 2 CEILING LOUDSPEAKER.
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 CEILING LOUDSPEAKER
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 CEILING LOUDSPEAKER
- (S1) ELECTRONIC COMMUNICATIONS TYPE 1 WALL-MOUNTED SPEAKER/CLOCK.
- (S2) ELECTRONIC COMMUNICATIONS TYPE 2 WALL-MOUNTED SPEAKER/CLOCK.
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 WALL-MOUNTED SPEAKER/CLOCK.
- (S4) ELECTRONIC COMMUNICATIONS TYPE 4 WALL-MOUNTED SPEAKER/CLOCK.
- (S5) ELECTRONIC COMMUNICATIONS TYPE 5 WALL-MOUNTED SPEAKER.
- (S6) ELECTRONIC COMMUNICATIONS TYPE 6 WALL-MOUNTED SPEAKER/CLOCK.
- (PH) ELECTRONIC COMMUNICATIONS PAGING HORN.
- (CB) ELECTRONIC COMMUNICATIONS CALL BUTTON.
- (VC) ELECTRONIC COMMUNICATIONS VOLUME CONTROL.
- (P) ELECTRONIC COMMUNICATIONS ADMIN PHONE PLATE.
- (CP) ELECTRONIC COMMUNICATIONS CONTROL PANEL CONNECTION.
- (C1) TYPE 1 WALL-MOUNTED CLOCK.
- (C2) TYPE 2 WALL-MOUNTED CLOCK.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

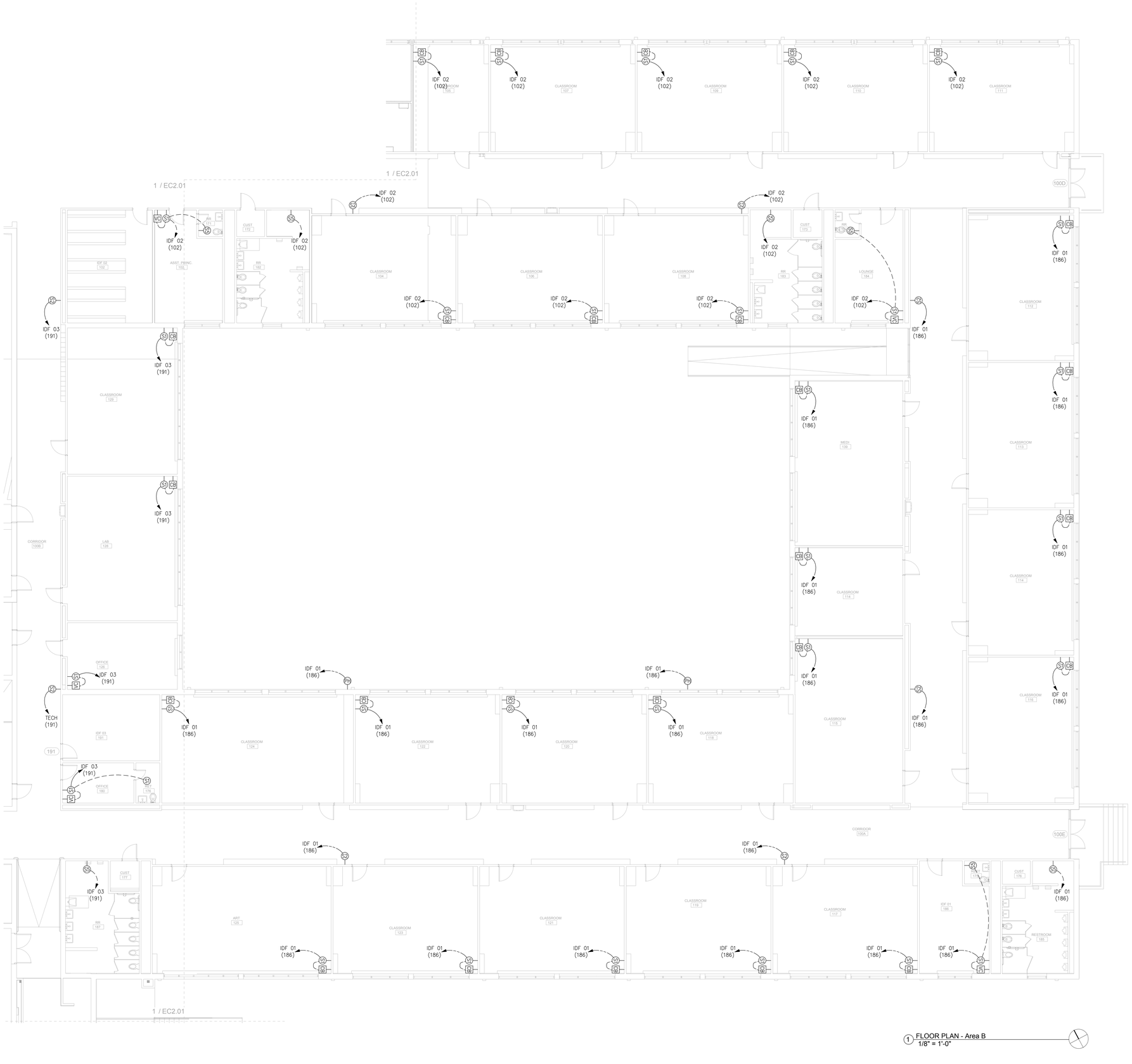
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA A

Sheet Number
EC2.02



1 FLOOR PLAN - Area B
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

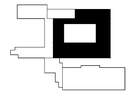
1. THE ENTIRE ELECTRONIC COMMUNICATIONS SYSTEM IS BEING REPLACE. REMOVE ALL SPEAKERS, CALL BUTTONS AND WIRING AND RETURN TO THE DISD NETWORK DEPARTMENT.
2. ELECTRONIC COMMUNICATIONS HEADEND TO BE LOCATED IN THE MDF.
3. IN HARD CEILING AREAS PLACE NEW SPEAKERS IN EXISTING SPEAKER LOCATION. REPAIR, PATCH AND PAINT ANY DAMAGE TO THE CEILING.
4. PLACE NEW CALL BUTTONS AND CLOCKS IN LOCATIONS INDICATED. REPAIR, PATCH AND PAINT LOCATIONS WHERE EXISTING DEVICES ARE REMOVED.
5. MOUNT NEW ELECTRONIC COMMUNICATIONS SYSTEM EQUIPMENT IN THE EXISTING EQUIPMENT RACKS LOCATED IN THE DESIGNATED DATA CLOSET.

LEGEND

- (S1) ELECTRONIC COMMUNICATIONS TYPE 1 CEILING LOUDSPEAKER.
- (S2) ELECTRONIC COMMUNICATIONS TYPE 2 CEILING LOUDSPEAKER.
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 CEILING LOUDSPEAKER
- —(S1) ELECTRONIC COMMUNICATIONS TYPE 1 WALL-MOUNTED SPEAKER/CLOCK.
- —(S2) ELECTRONIC COMMUNICATIONS TYPE 2 WALL-MOUNTED SPEAKER/CLOCK.
- —(S3) ELECTRONIC COMMUNICATIONS TYPE 3 WALL-MOUNTED SPEAKER/CLOCK.
- —(S4) ELECTRONIC COMMUNICATIONS TYPE 4 WALL-MOUNTED SPEAKER/CLOCK.
- —(S5) ELECTRONIC COMMUNICATIONS TYPE 5 WALL-MOUNTED SPEAKER.
- —(S6) ELECTRONIC COMMUNICATIONS TYPE 6 WALL-MOUNTED SPEAKER/CLOCK.
- (PH) ELECTRONIC COMMUNICATIONS PAGING HORN.
- —(CB) ELECTRONIC COMMUNICATIONS CALL BUTTON.
- —(VC) ELECTRONIC COMMUNICATIONS VOLUME CONTROL.
- (P) ELECTRONIC COMMUNICATIONS ADMIN PHONE PLATE.
- —(CP) ELECTRONIC COMMUNICATIONS CONTROL PANEL CONNECTION.
- —(C) TYPE 1 WALL-MOUNTED CLOCK.
- —(C2) TYPE 2 WALL-MOUNTED CLOCK.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

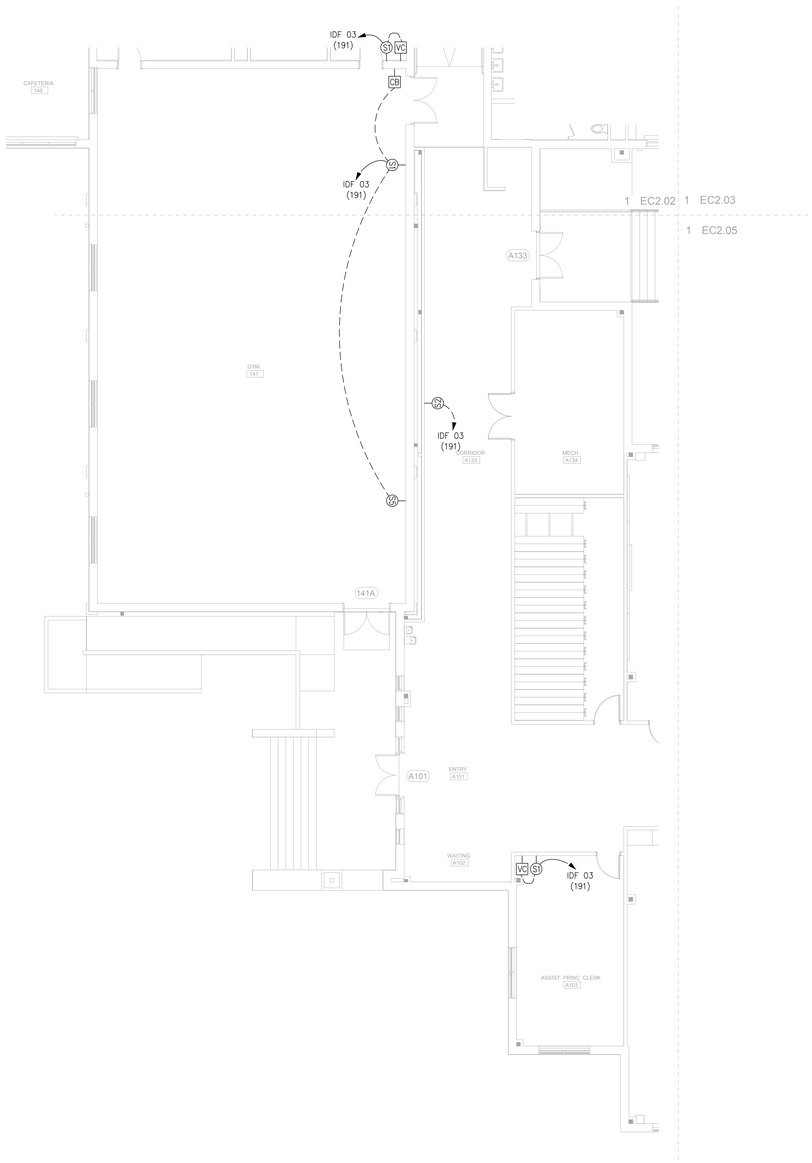
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA B

Sheet Number
EC2.03



1 FLOOR PLAN - Area C
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

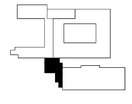
1. THE ENTIRE ELECTRONIC COMMUNICATIONS SYSTEM IS BEING REPLACE. REMOVE ALL SPEAKERS, CALL BUTTONS AND WIRING AND RETURN TO THE DISD NETWORK DEPARTMENT.
2. ELECTRONIC COMMUNICATIONS HEADEND TO BE LOCATED IN THE MDF.
3. IN HARD CEILING AREAS PLACE NEW SPEAKERS IN EXISTING SPEAKER LOCATION. REPAIR, PATCH AND PAINT ANY DAMAGE TO THE CEILING.
4. PLACE NEW CALL BUTTONS AND CLOCKS IN LOCATIONS INDICATED. REPAIR, PATCH AND PAINT LOCATIONS WHERE EXISTING DEVICES ARE REMOVED.
5. MOUNT NEW ELECTRONIC COMMUNICATIONS SYSTEM EQUIPMENT IN THE EXISTING EQUIPMENT RACKS LOCATED IN THE DESIGNATED DATA CLOSET.

LEGEND

- (S1) ELECTRONIC COMMUNICATIONS TYPE 1 CEILING LOUDSPEAKER.
- (S2) ELECTRONIC COMMUNICATIONS TYPE 2 CEILING LOUDSPEAKER.
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 CEILING LOUDSPEAKER
- (S1) ELECTRONIC COMMUNICATIONS TYPE 1 WALL-MOUNTED SPEAKER/CLOCK.
- (S2) ELECTRONIC COMMUNICATIONS TYPE 2 WALL-MOUNTED SPEAKER/CLOCK.
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 WALL-MOUNTED SPEAKER/CLOCK.
- (S4) ELECTRONIC COMMUNICATIONS TYPE 4 WALL-MOUNTED SPEAKER/CLOCK.
- (S5) ELECTRONIC COMMUNICATIONS TYPE 5 WALL-MOUNTED SPEAKER.
- (S6) ELECTRONIC COMMUNICATIONS TYPE 6 WALL-MOUNTED SPEAKER/CLOCK.
- (PH) ELECTRONIC COMMUNICATIONS PAGING HORN.
- (CB) ELECTRONIC COMMUNICATIONS CALL BUTTON.
- (VC) ELECTRONIC COMMUNICATIONS VOLUME CONTROL.
- (P) ELECTRONIC COMMUNICATIONS ADMIN PHONE PLATE.
- (CP) ELECTRONIC COMMUNICATIONS CONTROL PANEL CONNECTION.
- (C1) TYPE 1 WALL-MOUNTED CLOCK.
- (C2) TYPE 2 WALL-MOUNTED CLOCK.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

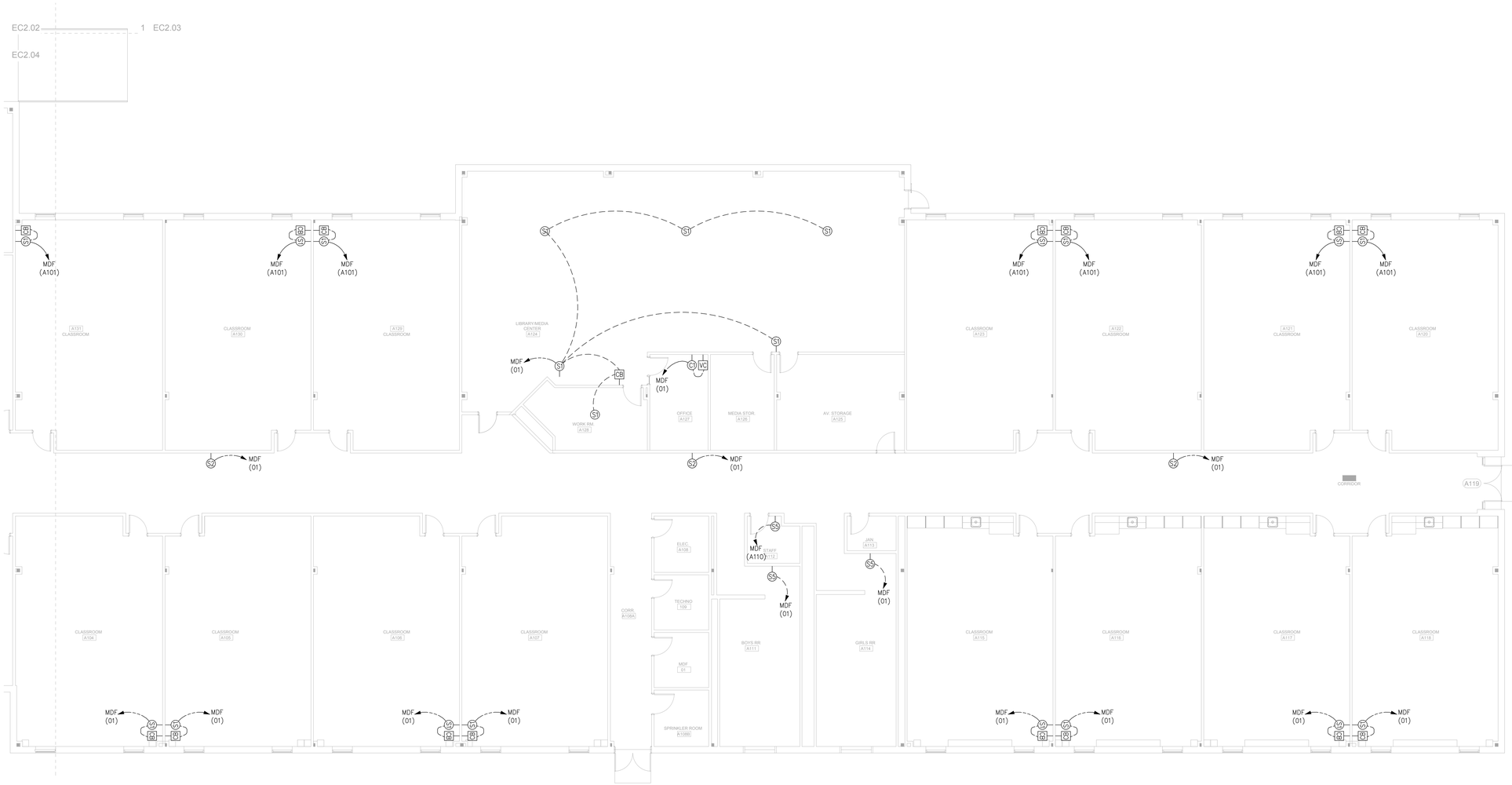
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA C

Sheet Number
EC2.04



1 FLOOR PLAN - Area D
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

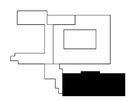
1. THE ENTIRE ELECTRONIC COMMUNICATIONS SYSTEM IS BEING REPLACE. REMOVE ALL SPEAKERS, CALL BUTTONS AND WIRING AND RETURN TO THE DISD NETWORK DEPARTMENT.
2. ELECTRONIC COMMUNICATIONS HEADEND TO BE LOCATED IN THE MDF.
3. IN HARD CEILING AREAS PLACE NEW SPEAKERS IN EXISTING SPEAKER LOCATION. REPAIR, PATCH AND PAINT ANY DAMAGE TO THE CEILING.
4. PLACE NEW CALL BUTTONS AND CLOCKS IN LOCATIONS INDICATED. REPAIR, PATCH AND PAINT LOCATIONS WHERE EXISTING DEVICES ARE REMOVED.
5. MOUNT NEW ELECTRONIC COMMUNICATIONS SYSTEM EQUIPMENT IN THE EXISTING EQUIPMENT RACKS LOCATED IN THE DESIGNATED DATA CLOSET.

LEGEND

- (S1) ELECTRONIC COMMUNICATIONS TYPE 1 CEILING LOUDSPEAKER.
- (S2) ELECTRONIC COMMUNICATIONS TYPE 2 CEILING LOUDSPEAKER.
- (S3) ELECTRONIC COMMUNICATIONS TYPE 3 CEILING LOUDSPEAKER
- —(S1) ELECTRONIC COMMUNICATIONS TYPE 1 WALL-MOUNTED SPEAKER/CLOCK.
- —(S2) ELECTRONIC COMMUNICATIONS TYPE 2 WALL-MOUNTED SPEAKER/CLOCK.
- —(S3) ELECTRONIC COMMUNICATIONS TYPE 3 WALL-MOUNTED SPEAKER/CLOCK.
- —(S4) ELECTRONIC COMMUNICATIONS TYPE 4 WALL-MOUNTED SPEAKER/CLOCK.
- —(S5) ELECTRONIC COMMUNICATIONS TYPE 5 WALL-MOUNTED SPEAKER.
- —(S6) ELECTRONIC COMMUNICATIONS TYPE 6 WALL-MOUNTED SPEAKER/CLOCK.
- —(PH) ELECTRONIC COMMUNICATIONS PAGING HORN.
- —(CB) ELECTRONIC COMMUNICATIONS CALL BUTTON.
- —(VC) ELECTRONIC COMMUNICATIONS VOLUME CONTROL.
- —(P) ELECTRONIC COMMUNICATIONS ADMIN PHONE PLATE.
- —(CP) ELECTRONIC COMMUNICATIONS CONTROL PANEL CONNECTION.
- —(C1) TYPE 1 WALL-MOUNTED CLOCK.
- —(C2) TYPE 2 WALL-MOUNTED CLOCK.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

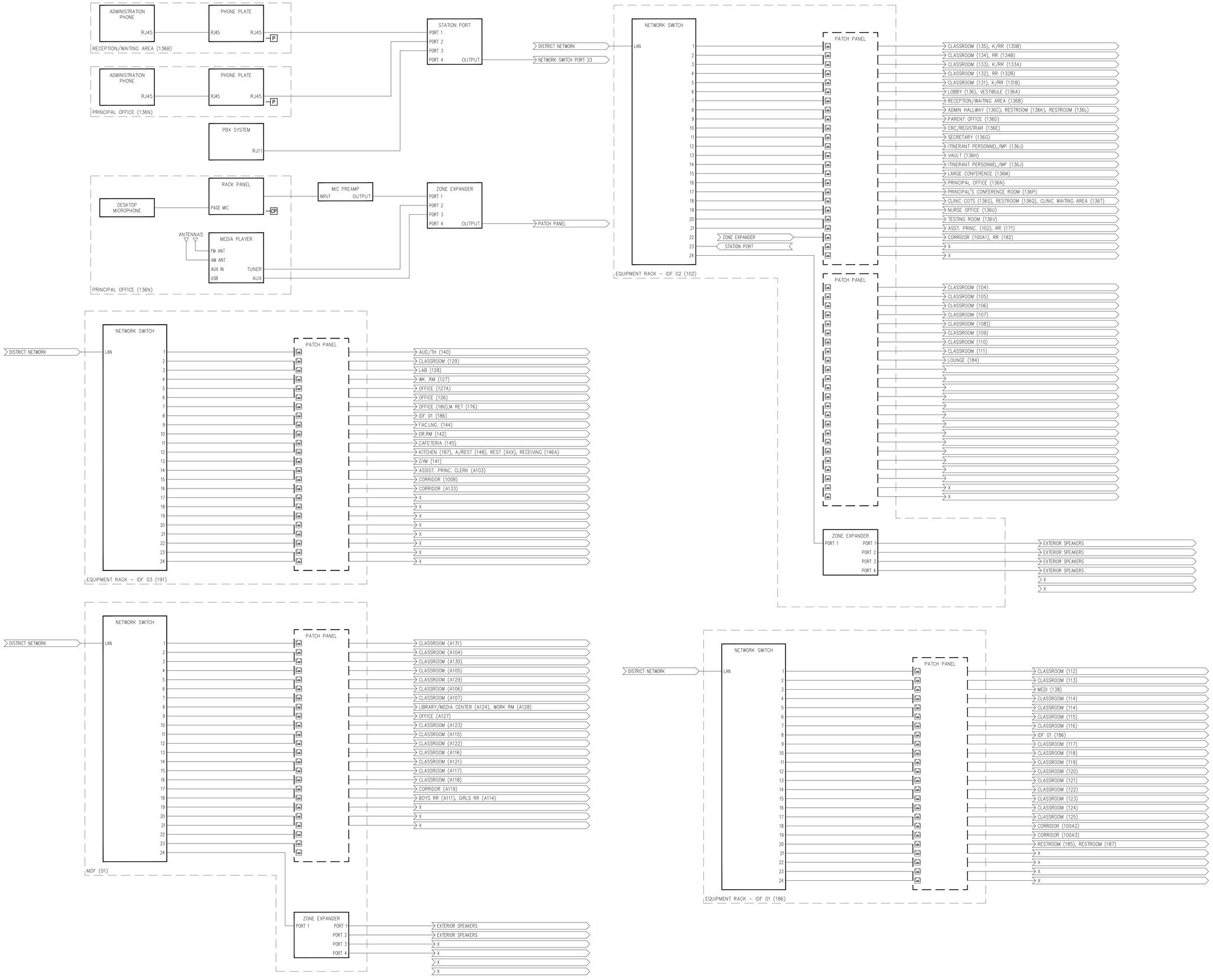
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA D

Sheet Number
EC2.05



1 ELECTRONIC COMMUNICATIONS SYSTEM FUNCTIONAL DIAGRAM
SCALE: N.T.S.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

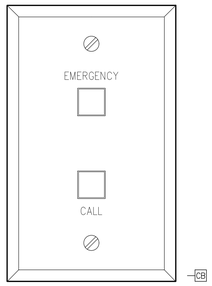
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
ELECTRONIC COMMUNICATIONS DIAGRAM

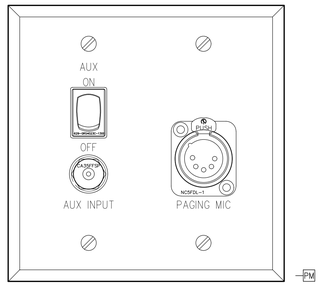
Sheet Number
EC7.02



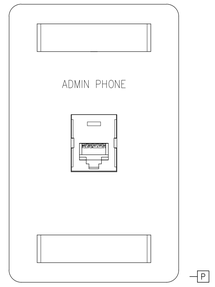
1 DETAIL - EC CALL BUTTON
SCALE: N.T.S.



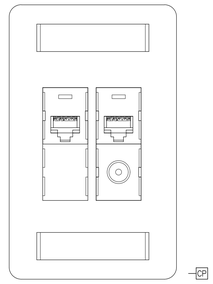
2 DETAIL - EC VOLUME CONTROL
SCALE: N.T.S.



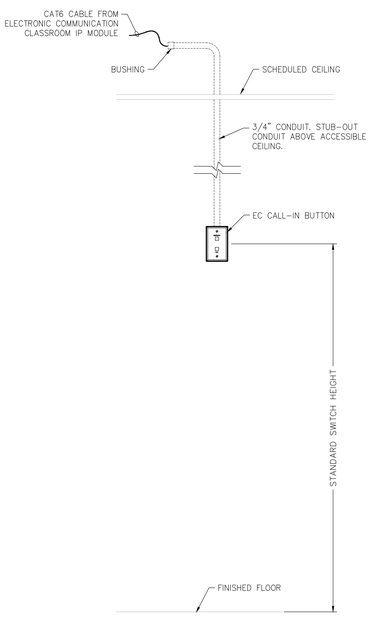
3 DETAIL - EC MIC/AUX INPUT PANEL
SCALE: N.T.S.



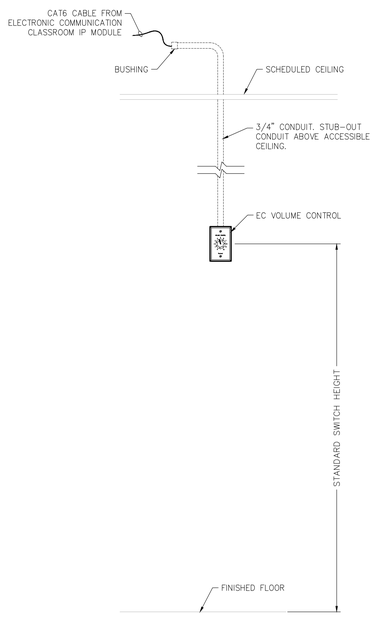
4 DETAIL - ADMIN PHONE PLATE
SCALE: N.T.S.



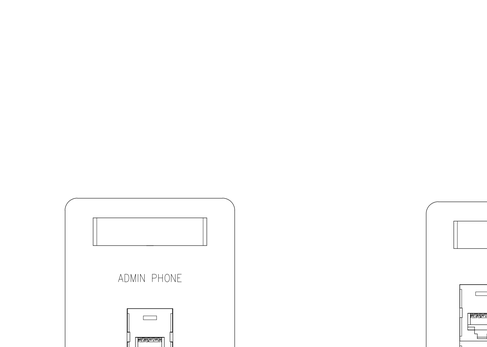
5 DETAIL - EC CONNECTOR PLATE
SCALE: N.T.S.



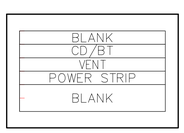
6 DETAIL - EC CALL BUTTON MOUNTING
SCALE: N.T.S.



7 DETAIL - EC VOLUME CONTROL MOUNTING
SCALE: N.T.S.



8 DETAIL - EC SPEAKER WIRING
SCALE: N.T.S.



9 DESKTOP EQUIPMENT RACK
SCALE: N.T.S.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

ELECTRONIC COMMUNICATIONS DETAILS

Sheet Number
EC7.01

GENERAL NOTES

1. ALL RACEWAY BEZEL'S, CONDUIT, CABLE TRAY, CABLE TRAY FIRE STOPS, OUTLET BOXES, PULL BOXES, RISER AND SLEEVES, GROUND BONDING OF EMPTY RACEWAYS, AS SHOWN OR SPECIFIED HEREIN MUST BE COORDINATED WITH ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR POSITION AND LOCATION U.N.O.
2. LOCATIONS OF SYMBOLS SHOWN ON "T" SERIES DRAWING ARE NOT TO BE CONSTRUED AS THE APPROVED LOCATION FOR THE DEVICE. REFER TO THE ELECTRICAL AND ARCHITECTURAL PLANS AND ELEVATIONS FOR THE APPROVED LOCATIONS.
3. IN THE EVENT OF CONFLICTS IN SYMBOLS, THOSE SHOWN HERE IN SHALL APPLY TO THE "T" SERIES DRAWINGS ONLY.
4. ALL TELECOM WIRING SHALL BE PLACED IN CONDUIT OR CABLE TRAY.
5. WORK STATION CABLE NOT TO EXCEED 295' CIRCUIT LENGTH.
6. OUTLET BOXES REFERENCE PRODUCTS: TYPICAL BOX IS 4-11/16"SQ. X 2-1/2" DP. WITH 5/8" RAISED DEVICE RING.
7. COORDINATE ALL INFORMATION ON THE DRAWINGS WITH DALLAS ISD SECURITY CONTRACTOR TO ENSURE ALL ITEMS ARE COORDINATED FOR GC PRICING AND INSTALLATION.
8. NETWORKING CABLING FOR SECURITY CAMERAS TO BE PROVIDED BY DALLAS ISD-IT CABLING CONTRACTOR. COORDINATE INSTALLATION WITH GC.
9. ALL HORIZONTAL AND BACKBONE CABLE ARE TO BE PROPERLY SUPPORTED. INFRASTRUCTURE SUPPORT SYSTEMS INCLUDE BUT IS NOT LIMITED TO CONDUIT, CABLE TRAY AND J-HOOKS. SUPPORT CABLES AT A MAXIMUM OF 5'-0" WHEN USING J-HOOKS CABLE HANGERS.
10. REFERENCE RESPONSIBILITY MATRIX.

RESPONSIBILITY MATRIX

DALLAS ISD ORGANIZATION	DALLAS ISD DEPT/DIV/GROUP	BUILDING SYSTEM	DESCRIPTION: EQUIPMENT & DEVICE	EQUIPMENT & DEVICES	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, J-HOOKS et al	EQUIPMENT & DEVICES	PATHWAYS, CABLE TRAYS, CONDUIT, BACKBOXES, J-HOOKS et al	POWER
				DESIGNAED & DOCUMENTED FOR CONSTRUCTION BY	DESIGNAED & DOCUMENTED FOR CONSTRUCTION BY	PROVIDE AND INSTALLED BY	PROVIDE AND INSTALLED BY	PROVIDE AND INSTALLED BY
M&O	Grounds	Marquee Sign	Marquee Sign	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	EMS/Controls	BAS	JACE: Equipment, Cabling, Devices	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Elevators	Elevators	Wireless Emergency Call-Out	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Elevators	Elevators	Sump High Float Local Alarm	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Alarms	Fire (Sprinkler) Suppression	Flow Detection	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Alarms	Fire Alarm	Fire Alarm Wireless Radio (AES) Call-Out, Panels, Cabling, Devices	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	E-rate	Technology Infrastructure	A/E IT-Consultant	A/E	IT-Infrastructure PM	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Fiber Optic	Fiber Optic Cable from street to MDF-UPN	IT-Fiber Contractor	A/E (including civil pads, vaults)	IT-Fiber Contractor	CS-General Contractor (including civil pads, vaults)	N/A
IT	Infrastructure	Network	Fiber Optic Cabling - Dark Fiber	IT-Fiber Contractor	A/E (including civil pads, vaults)	IT-Fiber Contractor	CS-General Contractor (including civil pads, vaults)	N/A
IT	Infrastructure	Network	Fiber Optic Backbone Cabling - MDF to IDFs	IT-Fiber Contractor	A/E	IT-Fiber Contractor	CS-General Contractor	N/A
IT	Infrastructure	Infrastructure	Fiber Optic Patch Panels, Jumpers, et al	IT-Cabling Contractor	N/A	IT-Cabling Contractor	N/A	N/A
IT/Police	CSS EM	Access Control	MDF & IDF Room Security	CSS Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT	Infrastructure	Network	MDF/IDF: High Heat Alarm Signal	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/M&O	Infrastructure	Network	MDF/IDF Lighting Protection System and Event Alert	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Network	Portables	A/E	A/E	CS-General Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	UPS	A/E	A/E	IT-Network Equipment Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastructure	Network	Wireless Access Points (WAPs)	A/E IT-Consultant	A/E	IT-Network Equipment Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	Cabling	A/E IT-Consultant	A/E	IT-Cabling Contractor	CS-General Contractor	N/A
IT	Infrastructure	Network	Patch Panels	A/E IT-Consultant	N/A	IT-Cabling Contractor	N/A	N/A
IT	Infrastructure	Network	Racks (Floor Mounted)	A/E	N/A	CS-General Contractor	N/A	CS-General Contractor
IT	Infrastructure	Network	Racks (Wall Mounted)	A/E	N/A	CS-General Contractor	N/A	
IT	Infrastructure	Network	Patch Cables	A/E IT-Consultant	N/A	IT-Technology Contractor	N/A	N/A
IT	Infrastructure	Network	Biometric Clocks (Bioclocks)	A/E	A/E	Cabling by IT-Cabling Contractor. Devices provided by CS-GC purchased from IT-Biometric Clock Vendor	CS-General Contractor	POE by IT-Cabling Contractor. Does not require line voltage power.
IT	Infrastructure	Network	POE Switch Network	IT-Network Equipment Contractor	N/A	IT-Network Equipment Contractor	N/A	N/A
M&O	Sound Stage	Voice Communications	PA IP Integrated Electronic Communications Network	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Network	Master Clock	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Voice Communications	VoIP	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Voice Communications	Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Voice Communications	POE Switches PA/Sound	A/E	N/A	CS-General Contractor	N/A	CS-General Contractor
M&O	Sound Stage	Voice Communications	Patch Cables PA/Sound	A/E	N/A	CS-General Contractor	N/A	N/A
M&O	Sound Stage	Voice Communications	Patch Panel Sound System	A/E	N/A	CS-General Contractor	N/A	N/A
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Interactive Displays	IT/AV Vendor	A/E	IT A/V Vendor	CS-General Contractor	CS-General Contractor
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditoriums: Sound System	A/E Theatre Consultant	A/E	CS-General Contractor purchased from IT A/V Vendor	CS-General Contractor	CS-General Contractor
IT/AES	Audio-Visual Performing Arts	Distributed Audio-Video Communications Systems	Auditoriums: Video Projector and Screen	A/E Theatre Consultant	A/E	CS-General Contractor purchased from IT A/V Vendor	CS-General Contractor	CS-General Contractor
IT	Audio-Visual	Distributed Audio-Video Communications Systems	Multi-Purchase Rooms: Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Audio-Visual	Audio-Visual	Cafetoriums: Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Audio-Visual	Audio-Visual	Cafetoriums: Video Projector and Screen	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
M&O	Sound Stage	Distributed Audio-Video Communications Systems	Gymnasiums: Sound System	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastruture	Food and Child Nutrition Services	Cafeteria Point of Sale (POS)	FCNS Contractor	A/E	FCNS Contractor	CS-General Contractor	CS-General Contractor
IT	Infrastruture	Food and Child Nutrition Services	Cafeteria Digital Displays	A/E IT-Consultant & A/E	A/E	Display: CS-General Contractor, Cabling IT-Technology Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Network	Patch Panels Security	CSS Security Contractor	N/A	CSS-Security Contractor	N/A	N/A
IT/Police	CSS/EM	Network	POE Switches Security Devices	CSS Security Contractor	N/A	CSS-Security Contractor	N/A	CS-General Contractor
M&O	Alarms	Intrusion Detection System	Intrusion Wireless Call-Out, Panels, Keypads, Cabling Devices	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CCS/EM	Strom Shelter Operations	Control Room: Panels, monitoring and operational controls, devices and signage	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police M&F	CSS/EM Electrical	UPS (Non-Network)	Storm Shelter Power and Monitoring, Generator or Battery	A/E	A/E	CS-General Contractor	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Secure Vestible	See "Access Control", Div 28	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	CS-General Contractor
IT/Police	CSS/EM	Access Control	Card Access/CCTV Headend Licensing	CSS-Security Contractor	N/A	CSS-Security Contractor	N/A	N/A
IT/Police	CSS/EM	Access Control	Control Panels	CSS-Security Contractor	N/A	CSS-Security Contractor	N/A	CS-General Contractor
IT/Police	CSS/EM	Access Control	Card Readers	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT/Police	CSS/EM	Access Control	Door Contacts	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT/Police	CSS/EM	Access Control	Electrified Door Hardward	A/E	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT/Police	CSS/EM	Access Control	Electrified Door Hardward Power Supply	A/E	A/E	CSS-Security Contractor	CSS-Security Contractor	CS-General Contractor
IT/Police	CSS/EM	Access Control	IP Intercoms Masters	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Exterior	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT/Police	CSS/EM	Security: Electronic Surveillance	Cameras: Interior	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	N/A
IT/SPED	CSS	Safety & Security	SPED Monitoring System Cameras and Recording	X	X	X	CS-General Contractor	CS-General Contractor
IT/Police	CSS/EM	Security: Electronic Surveillane	Cabling: Switch to Device	CSS-Security Contractor	A/E	CSS-Security Contractor	CSS-Security Contractor	CS-General Contractor
IT/Police	CSS/EM	Security: Electronic Surveillane	Storage Servers	CSS-Security Contractor	N/A	CSS-Security Contractor	N/A	CS-General Contractor

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
TECHNOLOGY NOTES & RESPONSIBILITY CHART
Sheet Number
T0.01

TELECOM PATHWAY NOTES

GENERAL:

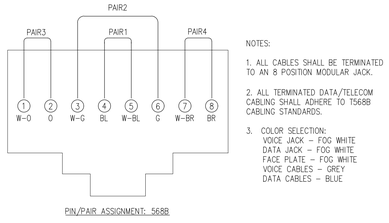
1. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAYS. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM TO ACCOMMODATE SITE CONDITIONS OR SIMPLIFY INSTALLATION AS LONG AS ADEQUATE SIZING IS MAINTAINED AND THE ARCHITECT APPROVES THE COORDINATION DRAWINGS SUBMITTED FOR REVIEW.
2. COORDINATE TELECOM PATHWAYS WITH OTHER CONDUIT.
3. REGARDLESS OF PATHWAY TYPE, ALL CABLING SHALL BE SUPPORTED AT 5'-0" MAXIMUM INTERVAL.
4. UNLESS OTHERWISE NOTED, CABLE PATHWAY WITHIN ROOMS WILL RUN IN CONDUIT AND STUB-UP TO ACCESSIBLE CEILING.
5. PROVIDE PROPER BONDING AND GROUNDING OF HORIZONTAL PATHWAYS IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS, AND J-STD-607.
6. SOLID LINE (———) DEPICTS CONDUIT IN WALLS OR ABOVE CEILINGS.
7. DASHED LINE (– – –) DEPICTS CONDUIT IN SLAB OR UNDERGROUND.
8. UNLESS OTHERWISE NOTED ALL CONDUITS ARE 1" TRADE SIZE.
9. ALL PENETRATIONS OF ARCHITECTURAL BARRIERS SHALL BE COMPLETELY SEALED AT THE CONCLUSION OF INSTALLATION. PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE FIRE-STOPPED WITH UL AND ASTM APPROVED MATERIALS THAT WILL PRESERVE THE HOUR-RATING OF THE BARRIER. CABLE TRAY PENETRATIONS SHALL EMPLOY MECHANICAL SEALING SYSTEMS THAT READILY PERMIT ADDITIONS OF MEDIA IN FUTURE ADDS, MOVES AND CHANGES. CONDUIT PENETRATIONS SHALL USE LATEX ENDOTHERMIC SEALANT AROUND THE OUTSIDE PERIMETER AND INTUMESCENT FIRE-STOP PILLOWS WITHIN.

CONDUIT:

1. ALL PATHWAYS IN CONCRETE FLOOR SLABS SHALL BE METALLIC TYPE EMT OR RIGID METAL.
2. CONDUIT RUNS SHALL NOT CONTAIN 90° CONDUITS BODIES (OR LB'S).
3. CONDUIT RUNS SHALL NOT EXCEED 100 CONTIGUOUS FEET. FOR RUNS IN EXCESS OF 100 FEET, INSERT AN ACCESSIBLE PULL BOX.
4. MAINTAIN PROPER CONDUIT BEND RADIUS IN ACCORDANCE WITH TIA/EIA-569-B. FOR CONDUIT WITH AN INTERNAL DIAMETER OF 2" OR LESS, MAINTAIN A BEND RADIUS OF AT LEAST 6 TIMES THE INTERNAL CONDUIT DIAMETER. FOR CONDUIT WITH AN INTERNAL DIAMETER GREATER THAN 2", MAINTAIN A BEND RADIUS OF AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
5. IF A CONDUIT REQUIRES MORE THAN TWO 90° BENDS, THEN PROVIDE AN ACCESSIBLE PULL BOX BETWEEN SECTIONS WITH 2 BENDS OR LESS. IF A CONDUIT RUN REQUIRES A REVERSE BEND (BETWEEN 100° AND 180°, THEN INSERT AN ACCESSIBLE PULL BOX AT EACH BEND HAVING AN ANGLE FROM 100° AND 180°. IF A CONDUIT RUN REQUIRES MORE THAN TWO 90° BENDS BETWEEN PULL BOXES, THEN FOR EACH ADDITIONAL BEND EITHER DERATE THE CONDUIT CAPACITY BY 15% OR USE THE NEXT LARGER SIZE CONDUIT.
6. DO NOT CONSIDER A PULL BOX AS A BEND. ALL CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND EITHER BEFORE OR AFTER THE PULL BOX.
7. REAM ALL CONDUIT ENDS. FIT STUBBED CONDUITS WITH AN INSULATED BUSHING TO ELIMINATE SHARP EDGES THAT MAY DAMAGE CABLE DURING INSTALLATION OR SERVICE. ALL CONDUIT WITH PULL CORD OR MULE TAPE WITH A MINIMUM TEST RATING OF 200LBS.
8. ALL CONDUITS FROM TELECOM OUTLET BACK BOXES ARE TO BE ROUTED ABOVE CEILING AND STUB OUT INTO NEAREST CABLE TRAY.
9. TELECOM RACEWAY SHALL NOT CONTAIN FLEXIBLE CONDUIT INTERNAL OF WALLS.

TELECOM PATHWAY NOTES

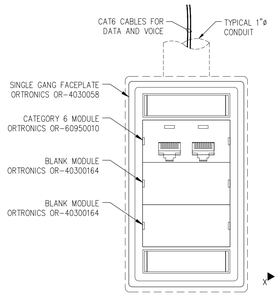
- $_{X}$▶ DATA OUTLET. (X) = QUANTITY OF CAT6 CABLES. IF NO QUANTITIES ARE INDICATED PROVIDE TWO (2) DATA CABLES. 4-11/16"SQ. X 3-1/2" DP. BOX WITH SINGLE GANG DEVICE RING. MOUNTED AT BUILDING STANDARD OUTLET HEIGHT UNLESS OTHERWISE NOTED.
- E $_{X}$▶ EXISTING DATA OUTLET. (X) = QUANTITY OF DATA OUTLETS. IF NO THERE IS NO NUMBER VERIFY QUANTITY OF DATA OUTLETS AT EACH LOCATION.
- —[MP] TEACHING WALL MULTI-MEDIA OUTLET. PROVIDE CONNECTORS AND CABLES FOR ONE (1) SINGLE CAT6, ONE (1) HDMI CABLE ON A 4-11/16"SQ. X 3" DP. BOX WITH A 1" EXTENSION RING. MOUNTED AT 1'-3" ABOVE FINISHED FLOOR TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- —[TS] TOUCH SCREEN OUTLET. 4-11/16"SQ. X 3-1/2" DP. BOX WITH SINGLE GANG DEVICE RING. REFERENCE DETAIL 1/T-7.01 FOR MOUNTING LOCATION AND HEIGHT.
- ▶ FLOOR DATA OUTLET. PROVIDE ONE (1) CAT6 CABLE. FLOOR BOX EQUAL TO STEEL CITY #601.
- [WAP] DATA OUTLET FOR DIRECT CONNECTION TO WIRELESS ACCESS POINT DEVICE. PROVIDE ONE (1) CAT6 CABLES TERMINATED WITH FEMALE 8-PIN CONNECTORS. PROVIDE TWENTY-FIVE (25) FOOT OF CABLE SERVICE LOOP AT ACCESS POINT.
- —[WAP] WALL DATA OUTLET FOR DIRECT CONNECTION TO WIRELESS ACCESS POINT DEVICE. PROVIDE ONE (1) CAT6 CABLES TERMINATED WITH FEMALE 8-PIN CONNECTORS. PROVIDE TWENTY-FIVE (25) FOOT OF CABLE SERVICE LOOP AT ACCESS POINT.
- —[MD]1 TYPE 1 WALL MOUNTED MOTION DETECTOR. MOUNTED 7'-6" ABOVE FINISHED FLOOR. DETECTOR EQUAL TO NAPCO PIR1510.
- —[MD]2 TYPE 2 WALL MOUNTED MOTION DETECTOR. MOUNTED 7'-6" ABOVE FINISHED FLOOR. DETECTOR EQUAL TO NAPCO PIR1680.
- —[MD]3 TYPE 3 WALL MOUNTED MOTION DETECTOR. MOUNTED 7'-6" ABOVE FINISHED FLOOR. DETECTOR EQUAL TO NAPCO PIR1710.
- —[CR] CARD READER. 4-11/16"SQ. X 2-1/8"DP. BOX WITH SINGLE GANG TRIM RING FLUSH MOUNTED IN CEILING. ROUTE CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY.
- —[KP] KEY PAD. 4-11/16"SQ. X 2-1/8"DP. BOX WITH SINGLE GANG TRIM RING FLUSH MOUNTED IN CEILING. ROUTE CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY.
- —[BD] ROOF MOUNTED BEAM DETECTOR. BEAM DETECTOR EQUAL TO OPTEX PHOTOELECTRIC DETECTOR AX-250.
- —[ICM] VIDEO INTERCOM MASTER STATION. COORDINATE MOUNTING WITH ARCHITECT.
- —[IC] VIDEO INTERCOM STATION. COORDINATE INSTALLATION AND MOUNTING WITH DOOR AND/OR WINDOW MULLION.
- —[BC] BIO CLOCK. SINGLE GANG OUTLET BOX OPEN AT FRONT AND BACK.
- [DR] DOOR RELEASE.
- [DS] DOOR SWITCH.
- [JB] JUNCTION BOXES. UNLESS OTHERWISE NOTED ON DRAWINGS, BOXES TO BE SIZED AS REQUIRED BY CONTRACTOR, ENAMEL PAINTED, AND CONSTRUCTED OF GALVANIZED STEEL WITH KEY LOCKING DOOR. BOXES TO BE SURFACE MOUNTED 5'-6" ABOVE FINISHED FLOOR. PROVIDED FOR INTRUSION DETECTOR EXPANSION MODULE. PROVIDE 1" CONDUIT STUB-OUT TO ACCESSIBLE CEILING.
- [MD]1 TYPE 1 CEILING MOUNTED MOTION DETECTOR. PROVIDE STANDARD OCTAGONAL BACK BOX. DETECTOR EQUAL TO BOSCH DS938Z.
- [MD]2 TYPE 2 CEILING MOUNTED MOTION DETECTOR. PROVIDE STANDARD OCTAGONAL BACK BOX. DETECTOR EQUAL TO BOSCH ISN-CC1.
- [DS] DOOR POSITION SWITCH.
- [CAM] CEILING MOUNTED FIXED SURVEILLANCE CAMERA. 4-11/16"SQ. X 2-1/8"DP. BOX WITH SINGLE GANG TRIM RING FLUSH MOUNTED IN CEILING. ROUTE CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY.
- —[CAM] WALL MOUNTED FIXED SURVEILLANCE CAMERA. 4-11/16"SQ. X 2-1/8"DP. BOX WITH DOUBLE GANG TRIM RING FLUSH MOUNTED IN CEILING. ROUTE CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY.
- —[EX] EXTERIOR WALL MOUNTED FIXED SURVEILLANCE CAMERA. 4-11/16"SQ. X 2-1/8"DP. BOX WITH DOUBLE GANG TRIM RING FLUSH MOUNTED IN CEILING. ROUTE CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY.
- —[S] INTRUSION DETECTION SIREN. MOUNT 12" ABOVE FINISHED CEILING.
- CABLE TRAY.
- CONDUIT SLEEVE. SIZE AS SHOWN ON DRAWINGS.



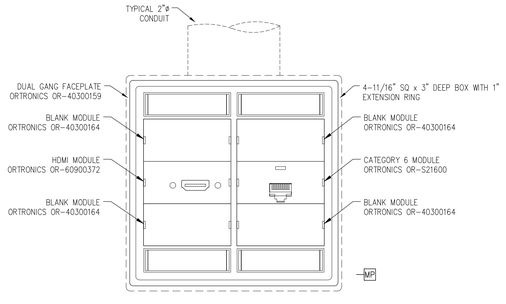
NOTES:

1. ALL CABLES SHALL BE TERMINATED TO AN 8 POSITION MODULAR JACK.
2. ALL TERMINATED DATA/TELECOM CABLING SHALL ADHERE TO T568B CABLING STANDARDS.
3. COLOR SELECTION:
   VOICE JACK – FOG WHITE
   DATA JACK – FOG WHITE
   FACE PLATE – FOG WHITE
   VOICE CABLES – GREY
   DATA CABLES – BLUE

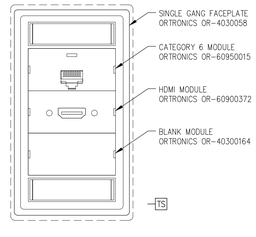
1 DETAIL - 568B CONNECTOR WIRING
SCALE: N.T.S.



2 DETAIL TYPICAL DATA/VOICE OUTLET
SCALE: 3/4" = 1"



3 DETAIL TEACHING WALL MULTI-MEDIA OUTLET
SCALE: 3/4" = 1"



4 DETAIL TOUCH SCREEN OUTLET
SCALE: 3/4" = 1"

NOTE:
MOUNT AT 4'-8" ABOVE FINISHED FLOOR TO CENTER OF OUTLET BOX. COORDINATE WITH TOUCH SCREEN LOCATION.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
TECHNOLOGY
LEGEND & DETAILS

Sheet Number
T0.02



② UPN FIBER LINE
N.T.S.

① SITE PLAN
1" = 30'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. VERIFY THAT ALL EXISTING CAMERAS ARE OPERATING PROPERLY.
2. VERIFY VIDEO SURVEILLANCE SYSTEM MONITORING EQUIPMENT IS OPERATING PROPERLY.
3. ROUTE CABLES FOR NEW CAMERAS TO THE NEAREST DATA CLOSET.
4. PROVIDE CARD READERS AT ALL DATA CLOSETS.
5. PROVIDE VIDEO INTERCOM SYSTEM AT MAIN ENTRY.
6. PROVIDE CARD READERS AT ALL EXTERIOR DOORS.
7. PROVIDE DOOR CONTACTS AT ALL EXTERIOR DOORS LEADING INTO THE MAIN BUILDING.
8. PAINT ALL SURFACE MOUNTED BACK BOXES AND CONDUIT FOR MATCH THE SURFACE THEY ARE MOUNTED ON.

LEGEND

EX EXISTING WALL MOUNTED SURVEILLANCE CAMERA.

CAM WALL MOUNTED SURVEILLANCE CAMERA.

KEYED NOTES

KEYPLAN

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

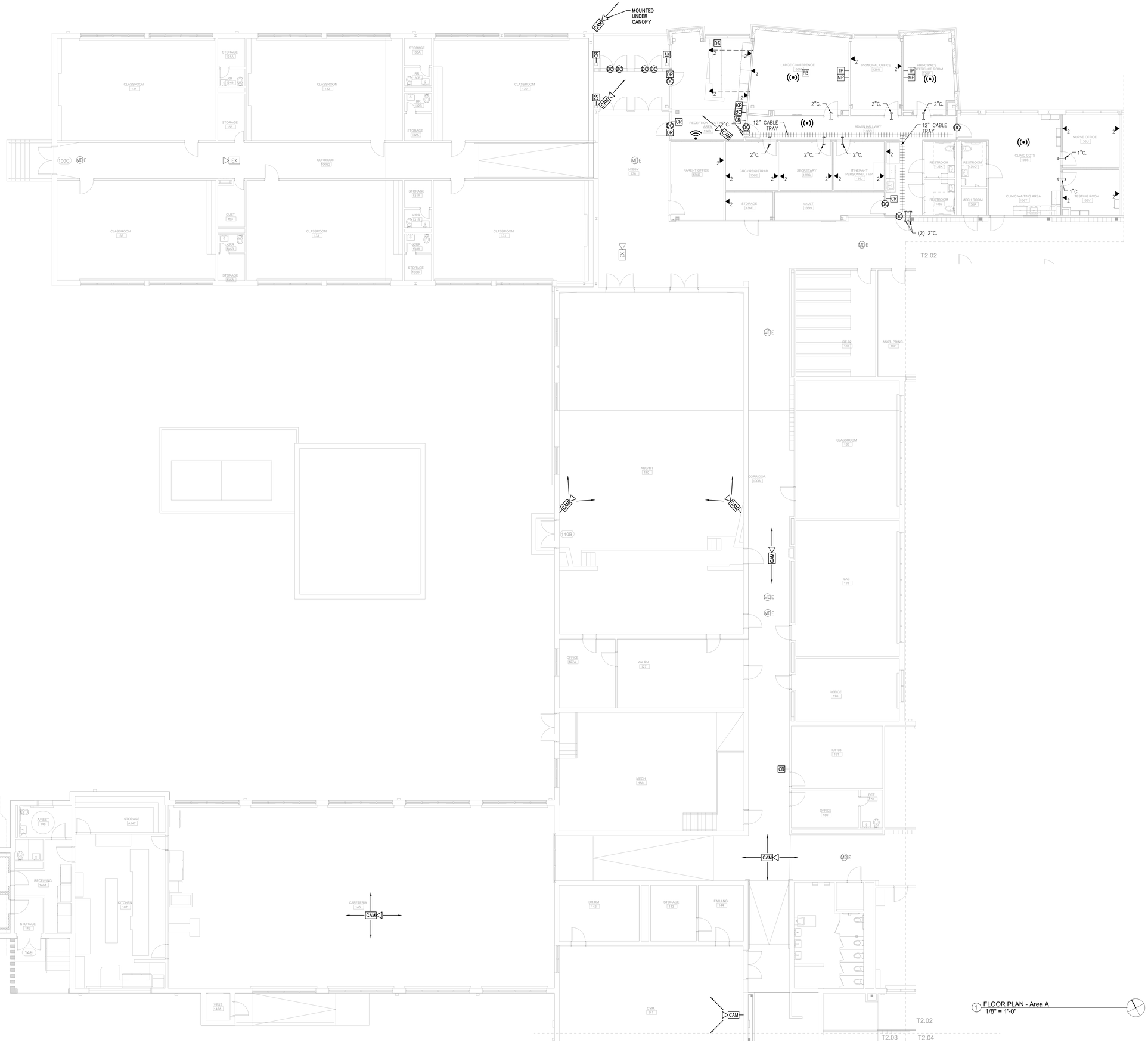
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
SITE PLAN

Sheet Number
T1.00



1 FLOOR PLAN - Area A
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

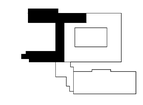
1. VERIFY THAT ALL EXISTING CAMERAS ARE OPERATING PROPERLY.
2. VERIFY VIDEO SURVEILLANCE SYSTEM MONITORING EQUIPMENT IS OPERATING PROPERLY.
3. ROUTE CABLES FOR NEW CAMERAS TO THE NEAREST DATA CLOSET.
4. PROVIDE CARD READERS AT ALL DATA CLOSETS.
5. PROVIDE VIDEO INTERCOM SYSTEM AT MAIN ENTRY.
6. PROVIDE CARD READERS AT ALL EXTERIOR DOORS.
7. PROVIDE DOOR CONTACTS AT ALL EXTERIOR DOORS LEADING INTO THE MAIN BUILDING.
8. PAINT ALL SURFACE MOUNTED BACK BOXES AND CONDUIT FOR MATCH THE SURFACE THEY ARE MOUNTED ON.
9. PROVIDE QUAD ELECTRICAL OUTLET WITHIN 18" OF DATA OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
10. COORDINATE NEW CAMERA LOCATIONS WITH DISTRICT SECURITY CONTRACTOR.
11. REFERENCE RESPONSIBILITY MATRIX AND NOTES ON TE0.1.

LEGEND

- DATA OUTLET.
- CEILING WIRELESS ACCESS POINT.
- WALL WIRELESS ACCESS POINT.
- ICM — VIDEO INTERCOM MASTER STATION.
- IC — VIDEO INTERCOM STATION.
- CR — CARD READER.
- FB — FLOOR BOX.
- EK — EXISTING DOOR KEY PAD.
- MD E — EXISTING CEILING MOUNTED MOTION DETECTOR.
- MD E — EXISTING WALL MOUNTED MOTION DETECTOR.
- EX — EXISTING CEILING MOUNTED SURVEILLANCE CAMERA.
- EX — EXISTING WALL MOUNTED SURVEILLANCE CAMERA.
- CAM — CEILING MOUNTED SURVEILLANCE CAMERA.
- CAM — WALL MOUNTED SURVEILLANCE CAMERA.
- DC — DOOR CONTACT.
- DS — DOOR RELEASE SWITCH.
- DR — DOOR RELEASE.
- MD — TYPE 1 MOTION DETECTOR.
- MD — TYPE 2 MOTION DETECTOR.
- KP — ACCESS KEYPAD.
- BC — BIO-CLOCK.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA A

Sheet Number
T2.02



1 FLOOR PLAN - Area B
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

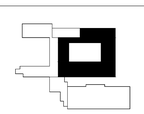
1. VERIFY THAT ALL EXISTING CAMERAS ARE OPERATING PROPERLY.
2. VERIFY VIDEO SURVEILLANCE SYSTEM MONITORING EQUIPMENT IS OPERATING PROPERLY.
3. ROUTE CABLES FOR NEW CAMERAS TO THE NEAREST DATA CLOSET.
4. PROVIDE CARD READERS AT ALL DATA CLOSETS.
5. PROVIDE VIDEO INTERCOM SYSTEM AT MAIN ENTRY.
6. PROVIDE CARD READERS AT ALL EXTERIOR DOORS.
7. PROVIDE DOOR CONTACTS AT ALL EXTERIOR DOORS LEADING INTO THE MAIN BUILDING.
8. PAINT ALL SURFACE MOUNTED BACK BOXES AND CONDUIT FOR MATCH THE SURFACE THEY ARE MOUNTED ON.
9. PROVIDE QUAD ELECTRICAL OUTLET WITHIN 18" OF DATA OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
10. COORDINATE NEW CAMERA LOCATIONS WITH DISTRICT SECURITY CONTRACTOR.
11. REFERENCE RESPONSIBILITY MATRIX AND NOTES ON TE0.1.

LEGEND

- DATA OUTLET.
- CEILING WIRELESS ACCESS POINT.
- WALL WIRELESS ACCESS POINT.
- VIDEO INTERCOM MASTER STATION.
- VIDEO INTERCOM STATION.
- CARD READER.
- FLOOR BOX.
- EXISTING DOOR KEY PAD.
- EXISTING CEILING MOUNTED MOTION DETECTOR.
- EXISTING WALL MOUNTED MOTION DETECTOR.
- EXISTING CEILING MOUNTED SURVEILLANCE CAMERA.
- EXISTING WALL MOUNTED SURVEILLANCE CAMERA.
- CEILING MOUNTED SURVEILLANCE CAMERA.
- WALL MOUNTED SURVEILLANCE CAMERA.
- DOOR CONTACT.
- DOOR RELEASE SWITCH.
- DOOR RELEASE.
- TYPE 1 MOTION DETECTOR.
- TYPE 2 MOTION DETECTOR.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

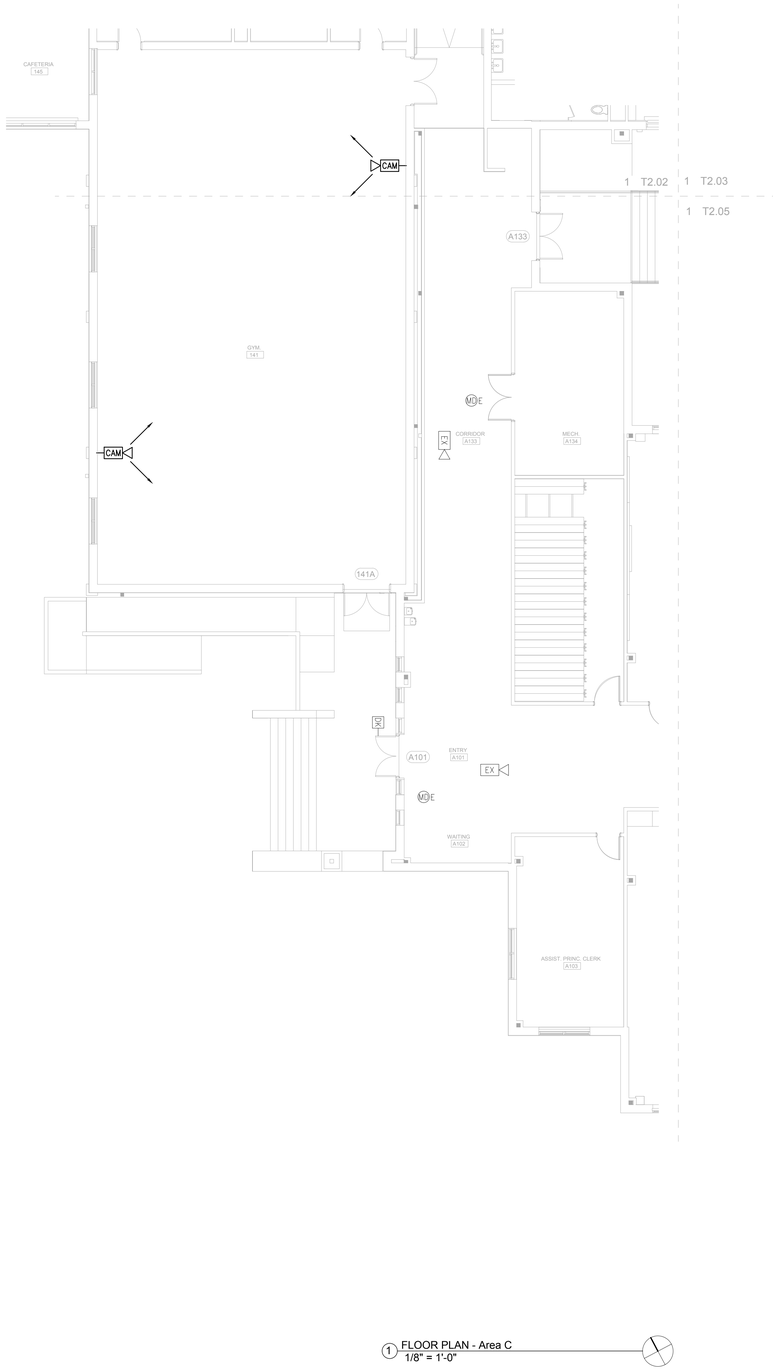
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA B

Sheet Number
T2.03



1 FLOOR PLAN - Area C
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

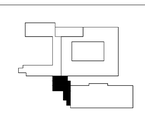
1. VERIFY THAT ALL EXISTING CAMERAS ARE OPERATING PROPERLY.
2. VERIFY VIDEO SURVEILLANCE SYSTEM MONITORING EQUIPMENT IS OPERATING PROPERLY.
3. ROUTE CABLES FOR NEW CAMERAS TO THE NEAREST DATA CLOSET.
4. PROVIDE CARD READERS AT ALL DATA CLOSETS.
5. PROVIDE VIDEO INTERCOM SYSTEM AT MAIN ENTRY.
6. PROVIDE CARD READERS AT ALL EXTERIOR DOORS.
7. PROVIDE DOOR CONTACTS AT ALL EXTERIOR DOORS LEADING INTO THE MAIN BUILDING.
8. PAINT ALL SURFACE MOUNTED BACK BOXES AND CONDUIT FOR MATCH THE SURFACE THEY ARE MOUNTED ON.
9. PROVIDE QUAD ELECTRICAL OUTLET WITHIN 18" OF DATA OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
10. COORDINATE NEW CAMERA LOCATIONS WITH DISTRICT SECURITY CONTRACTOR.
11. REFERENCE RESPONSIBILITY MATRIX AND NOTES ON TE0.1.

LEGEND

- DATA OUTLET.
- CEILING WIRELESS ACCESS POINT.
- WALL WIRELESS ACCESS POINT.
- VIDEO INTERCOM MASTER STATION.
- VIDEO INTERCOM STATION.
- CARD READER.
- FLOOR BOX.
- EXISTING DOOR KEY PAD.
- EXISTING CEILING MOUNTED MOTION DETECTOR.
- EXISTING WALL MOUNTED MOTION DETECTOR.
- EXISTING CEILING MOUNTED SURVEILLANCE CAMERA.
- EXISTING WALL MOUNTED SURVEILLANCE CAMERA.
- CEILING MOUNTED SURVEILLANCE CAMERA.
- WALL MOUNTED SURVEILLANCE CAMERA.
- DOOR CONTACT.
- DOOR RELEASE SWITCH.
- DOOR RELEASE.
- TYPE 1 MOTION DETECTOR.
- TYPE 2 MOTION DETECTOR.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

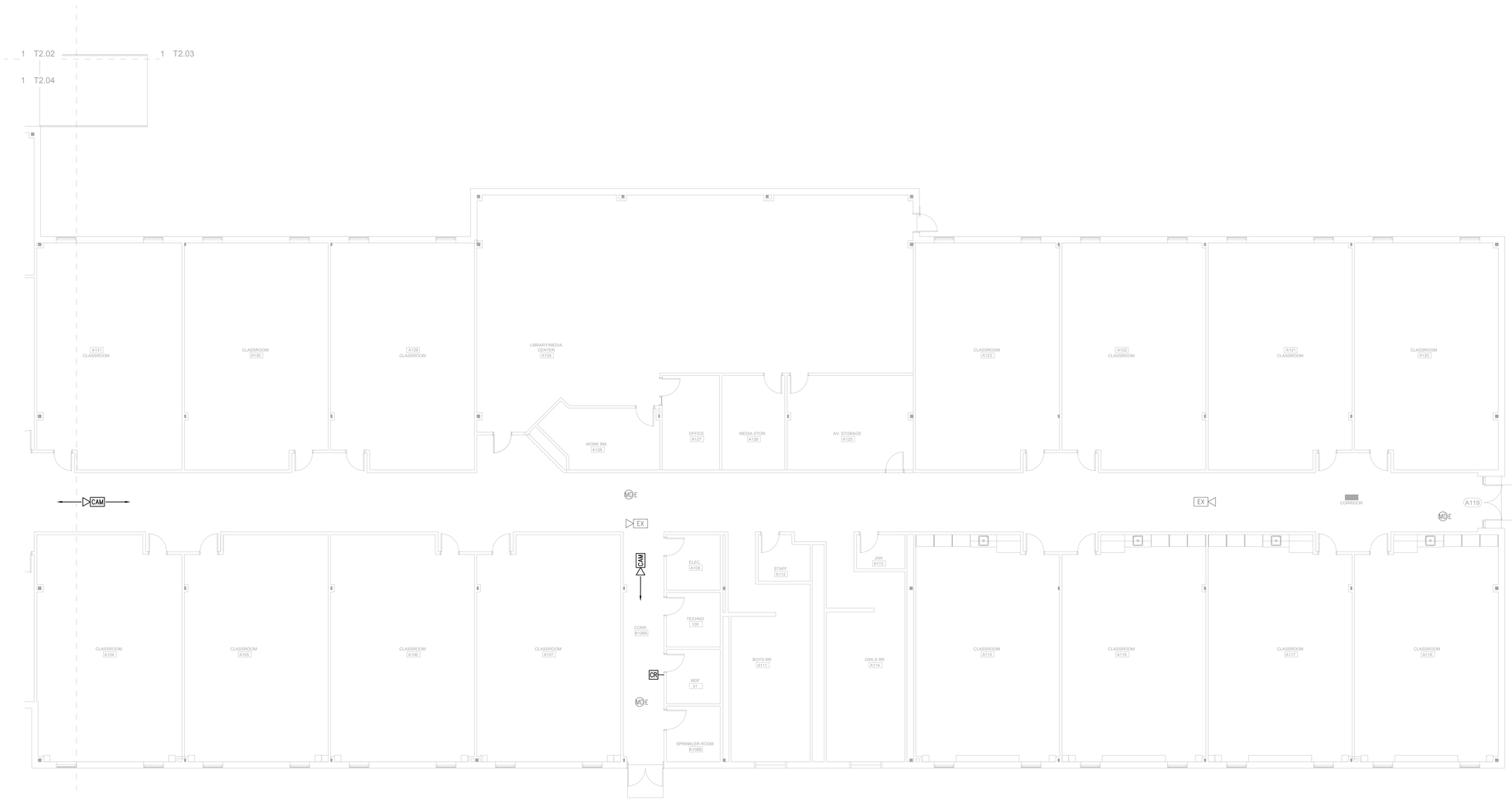
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA C

Sheet Number
T2.04



1 FLOOR PLAN - Area D
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. VERIFY THAT ALL EXISTING CAMERAS ARE OPERATING PROPERLY.
2. VERIFY VIDEO SURVEILLANCE SYSTEM MONITORING EQUIPMENT IS OPERATING PROPERLY.
3. ROUTE CABLES FOR NEW CAMERAS TO THE NEAREST DATA CLOSET.
4. PROVIDE CARD READERS AT ALL DATA CLOSETS.
5. PROVIDE VIDEO INTERCOM SYSTEM AT MAIN ENTRY.
6. PROVIDE CARD READERS AT ALL EXTERIOR DOORS.
7. PROVIDE DOOR CONTACTS AT ALL EXTERIOR DOORS LEADING INTO THE MAIN BUILDING.
8. PAINT ALL SURFACE MOUNTED BACK BOXES AND CONDUIT FOR MATCH THE SURFACE THEY ARE MOUNTED ON.
9. PROVIDE QUAD ELECTRICAL OUTLET WITHIN 18" OF DATA OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
10. COORDINATE NEW CAMERA LOCATIONS WITH DISTRICT SECURITY CONTRACTOR.
11. REFERENCE RESPONSIBILITY MATRIX AND NOTES ON TE0.1.

LEGEND

- DATA OUTLET.
- CEILING WIRELESS ACCESS POINT.
- WALL WIRELESS ACCESS POINT.
- VIDEO INTERCOM MASTER STATION.
- VIDEO INTERCOM STATION.
- CARD READER.
- FLOOR BOX.
- EXISTING DOOR KEY PAD.
- EXISTING CEILING MOUNTED MOTION DETECTOR.
- EXISTING WALL MOUNTED MOTION DETECTOR.
- EXISTING CEILING MOUNTED SURVEILLANCE CAMERA.
- EXISTING WALL MOUNTED SURVEILLANCE CAMERA.
- CEILING MOUNTED SURVEILLANCE CAMERA.
- WALL MOUNTED SURVEILLANCE CAMERA.
- DOOR CONTACT.
- DOOR RELEASE SWITCH.
- DOOR RELEASE.
- TYPE 1 MOTION DETECTOR.
- TYPE 2 MOTION DETECTOR.

KEYED NOTES

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

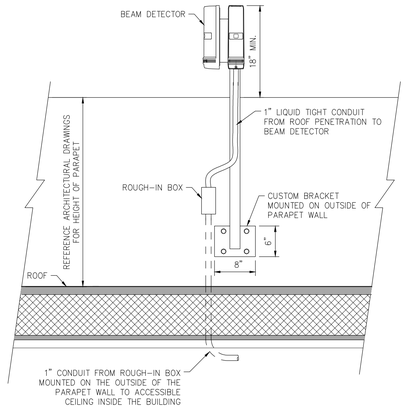
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

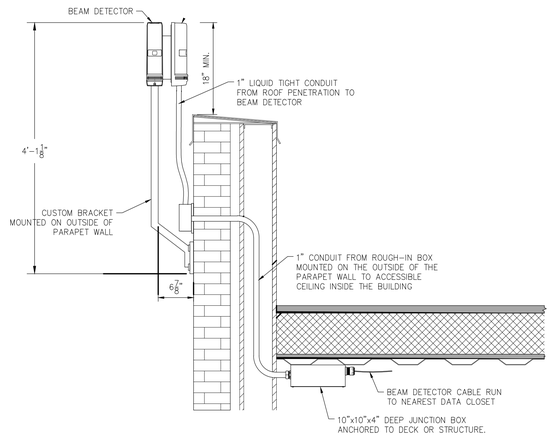
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
FLOOR PLAN - AREA D

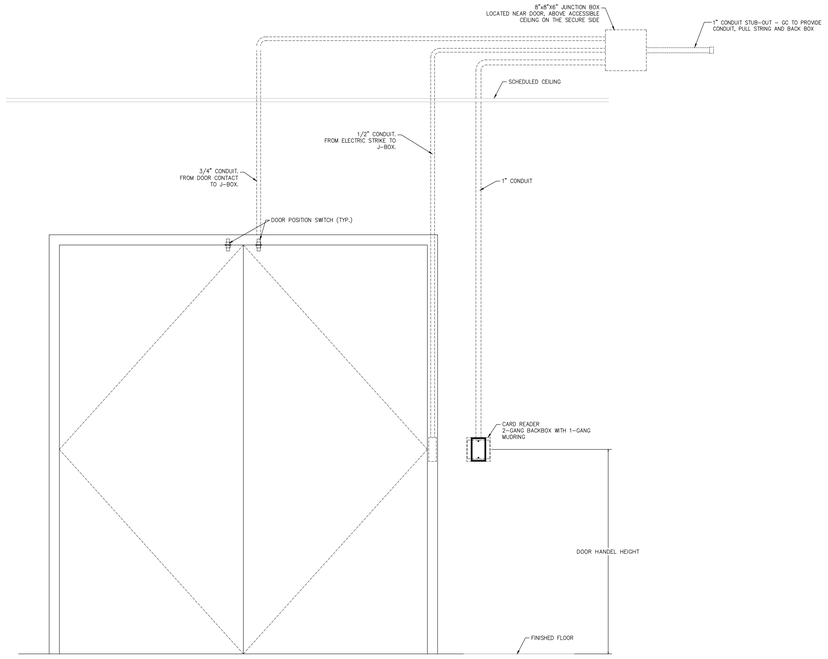
Sheet Number
T2.05



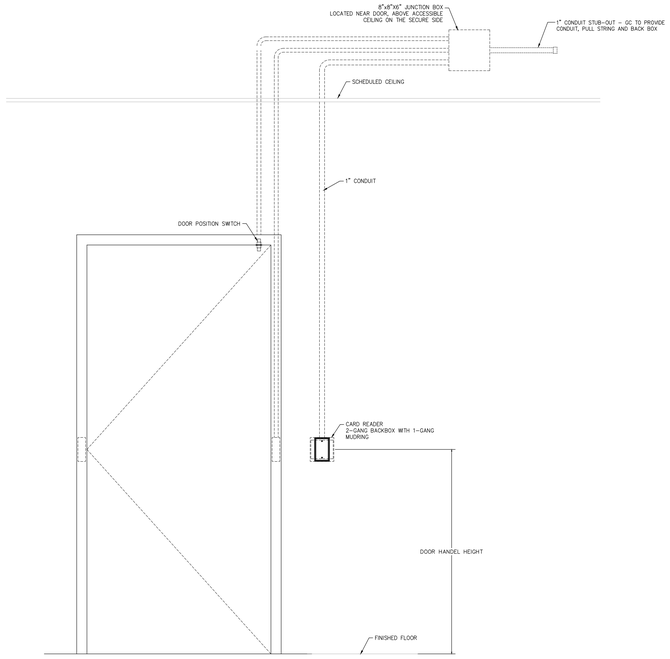
1 DETAIL - BEAM DETECTOR ELEVATION
SCALE: N.T.S.



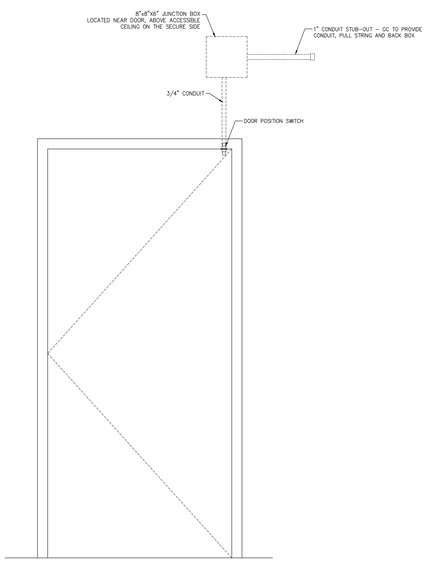
2 DETAIL - BEAM DETECTOR SECTION
SCALE: N.T.S.



3 DETAIL - CARD READER
SCALE: N.T.S.



4 DETAIL - CARD READER
SCALE: N.T.S.



5 DETAIL - DOOR POSITION SWITCH
SCALE: N.T.S.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

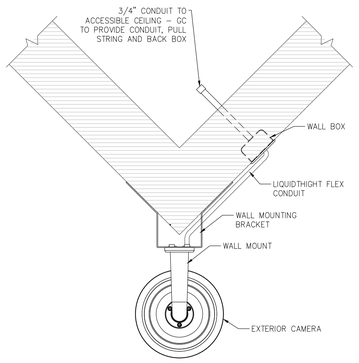
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

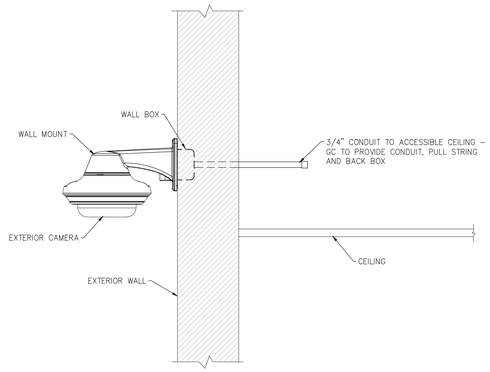
Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
TECHNOLOGY DETAILS

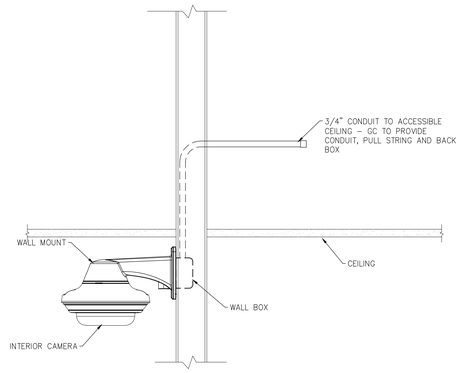
Sheet Number
T7.01



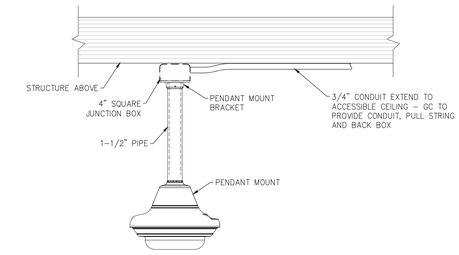
1 DETAIL - EXTERIOR CAMERA CORNER MOUNT
SCALE: N.T.S.



2 DETAIL - EXTERIOR CAMERA WALL MOUNT
SCALE: N.T.S.



3 DETAIL - INTERIOR CAMERA WALL MOUNT
SCALE: N.T.S.



4 DETAIL - INTERIOR CAMERA PENDANT MOUNT
SCALE: N.T.S.

5 DETAIL - INTERIOR DUAL HEAD CAMERA SURFACE MOUNT
SCALE: N.T.S.

6 DETAIL - INTERIOR DUAL HEAD CAMERA FLUSH MOUNT
SCALE: N.T.S.

7 DETAIL - INTERIOR DOME CAMERA SURFACE MOUNT
SCALE: N.T.S.

8 DETAIL - INTERIOR DOME CAMERA SURFACE MOUNT
SCALE: N.T.S.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

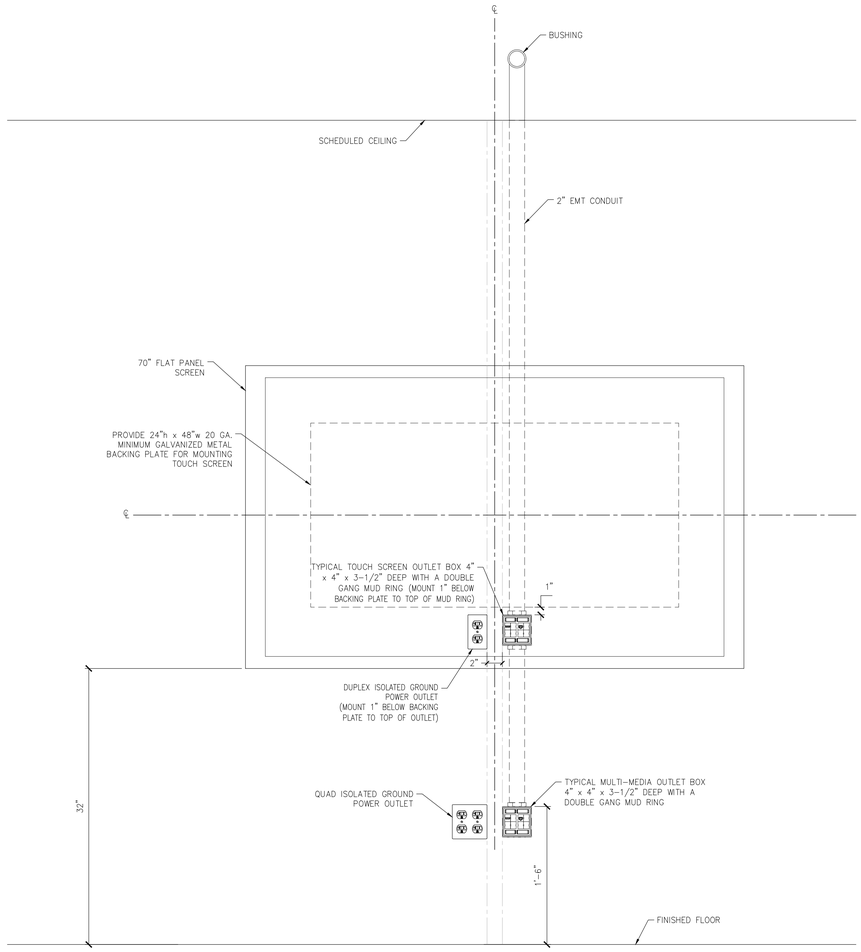
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

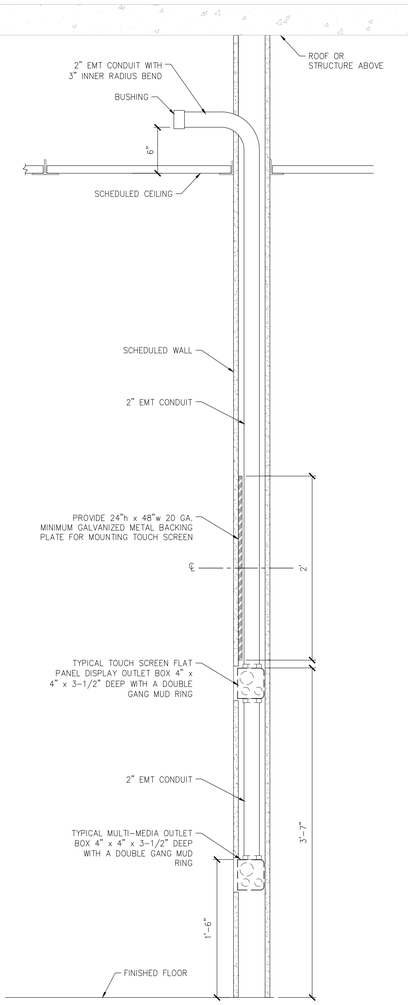
Sheet Title
TECHNOLOGY DETAILS

Sheet Number
T7.02



1 DETAIL - TEACHING WALL MULTI-MEDIA OUTLET BOX
SCALE: N.T.S.

NOTE: PREPARE A MOCKUP FOR OWNER REVIEW PRIOR TO INSTALLATION.



2 DETAIL - TEACHING WALL MULTI-MEDIA OUTLET BOX
SCALE: N.T.S.

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

CFA Consulting in Technology and Acoustics
Cedrick Frank Associates
434 Coombs Creek Dr.
Dallas, Texas
tel > 817.874.7116

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
ISSUED FOR PERMIT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.22.25
Revised:

Sheet Title
TECHNOLOGY DETAILS

Sheet Number
T7.03

JOHN W. RUNYON - ELEMENTARY SCHOOL - ORG 237

10750 CLADLEROCK DRIVE
DALLAS, TX 75229

100% DESIGN DEVELOPMENT

10/04/023



DISD Board of Trustees

Edwin Flores	District 1	Dustin Marshall	District 2	Dan Micciche	District 3
Camile D. White	District 4	Maxie Johnson	District 5	Joyce Foreman	District 6
Ben Mackey	District 7	Joe Carreon	District 8	Justin Henry	District 9

DISD Superintendent

Dr. Stephanie Elizalde

CBRE I VANIR
Program Manager Contact: David Narine
9400 N. Central Expressway
Dallas, TX 75231
Email: C112773@dallasisd.org
Phone: 901.619.3088

JQ Infrastructure
Civil Engineering Contact: Ovi Sipos, P.E
100 Glass Street
Dallas, Texas 75207
Email: osipos@jqeng.com
Phone: 214.623.5872

Purdy-McGuire, Inc
MEP Engineering Contact: Kip Hanzlicek, P.E.
17300 Dallas Parkway
Suite 3000
Dallas, Texas 75248
Email: khanzlicek@purdy-mcguire.com
Phone: 214.801.0295

CaCo Architecture LLC
Architect Contact: Roberto Diaz, AIA
1412 Main Street
Suite 1600
Dallas, Texas 75202
Email: rdiaz@cacollc.com
Phone: 972.934.7600

JQ Infrastructure
Structural Engineering Contact: Victor Liberato
100 Glass Street
Dallas, Texas 75207
Email: vliberato@jqeng.com
Phone: 915.892.1690

CCA Landscape Architects, Inc.
Landscape Architect Contact: Greg Webb
12700 Hillcrest Road
Suite 149
Dallas, Texas 75230
Email: greg@ccalandscpearch.com
Phone: 469-734-8306

Cedrick Frank Associates
IT/AV/Security, Acoustical Contact: Cedrick Frank
1007 Briar Hill Circle
Duncanville, Texas 75137
Email: cfrank@cfassoc.com
Phone: 817.874.7116

DRYTEC
Moisture Protection Technology Consultants, Inc.
Roofing Designer Contact: Liz Caballero
8750 N. Central Expressway
Suite 725
Dallas, TX. 75231
Email: lcaballero@drytecmptc.com
Phone: 214.363.2192

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

ISSUED FOR INTERIM REVIEW

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

MYRIAM E. CAMARGO, F.A.I.A.
TEXAS REG'N #13791

DATE: 09.29.23

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
DESIGN DEVELOPMENT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.04.23
Revised:

Sheet Title
COVER SHEET

Sheet Number
A0.01



1 OVERALL FLOOR PLAN
1/16" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS
2. PROVIDE BULDING WIDE SIGNAGE PACKAGE INCLUSIVE OF ALL ROOMS, DIRECTORY, WAY FINDING, STORM SHELTER, AND EVACUATION PLANS; REFER TO SPECIFICATIONS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGTH AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS .

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- AREA OF EXPANSION

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

ISSUED FOR INTERIM REVIEW

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

MYRIAM E. CAMARGO, F.A.I.A.
TEXAS REG'N #13791

DATE: 09.29.23

DALLAS ISD JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237

10750 CLADLEROCK DRIVE
DALLAS, TX 75217

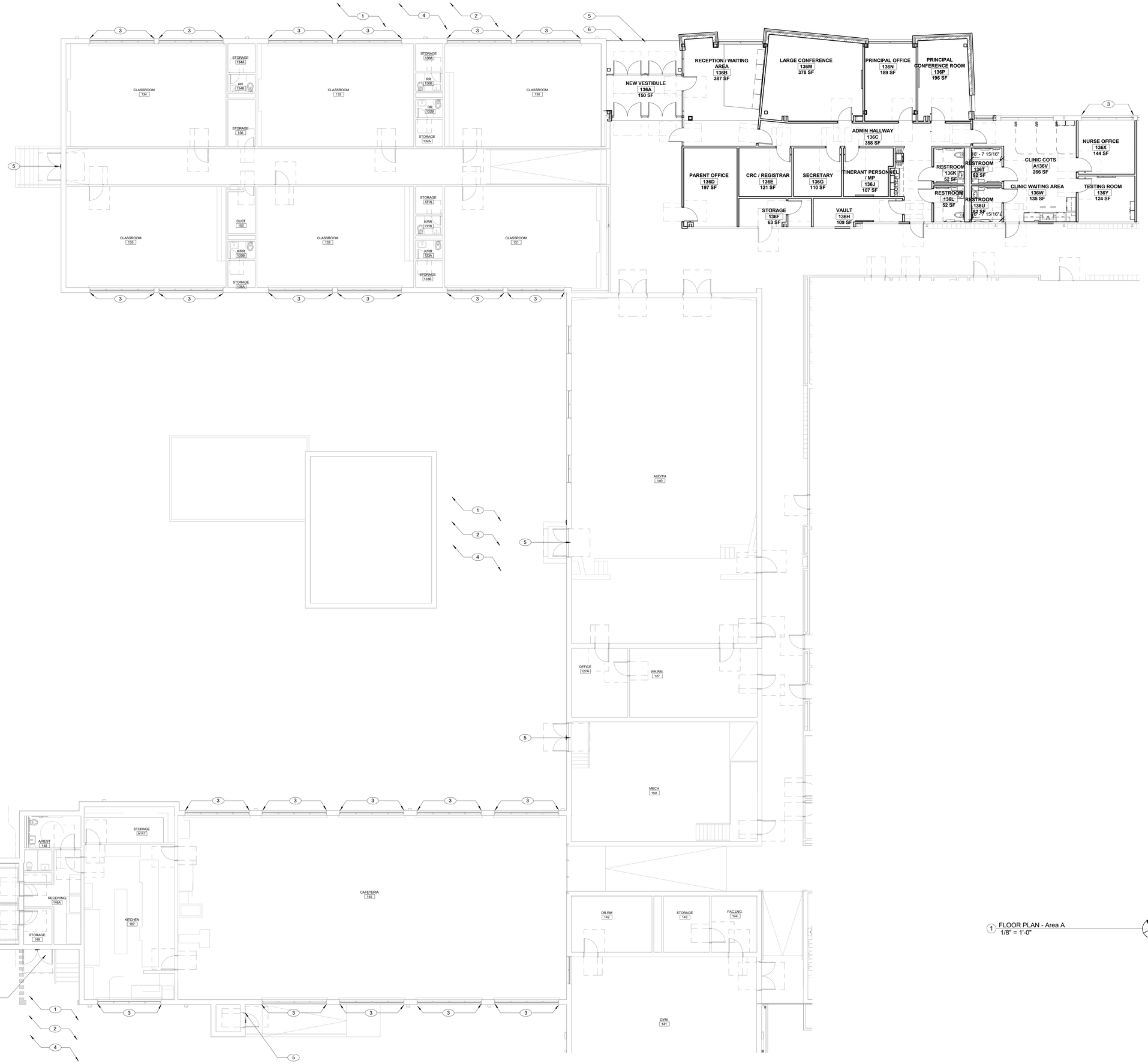
DESIGN DEVELOPMENT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.04.23
Revised:

Sheet Title
OVERALL PLANS

Sheet Number
A2.01



1 FLOOR PLAN - Area A
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS
2. PROVIDE BULDING WIDE SIGNAGE PACKAGE INCLUSIVE OF ALL ROOMS, DIRECTORY, WAY FINDING, STORM SHELTER, AND EVACUATION PLANS; REFER TO SPECIFICATIONS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGTH AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS .

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- AREA OF EXPANSION

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS & DOWNSPOUTS

2 REPLACE SEALANTS, CONTROL JOINTS, EXPANSION JOINTS

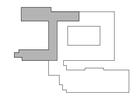
3 REMOVE & REPLACE SECURITY SCREENS WITH 3M WINDOW FILMS AT 1ST FLOOR WINDOWS

4 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS

5 NEW BUILDING SIGNAGE

6 NEW MARQUEE SIGN

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

ISSUED FOR INTERIM REVIEW

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

MYRIAM E. CAMARGO, F.A.I.A.
TEXAS REG'N #13791

DATE: 09.29.23

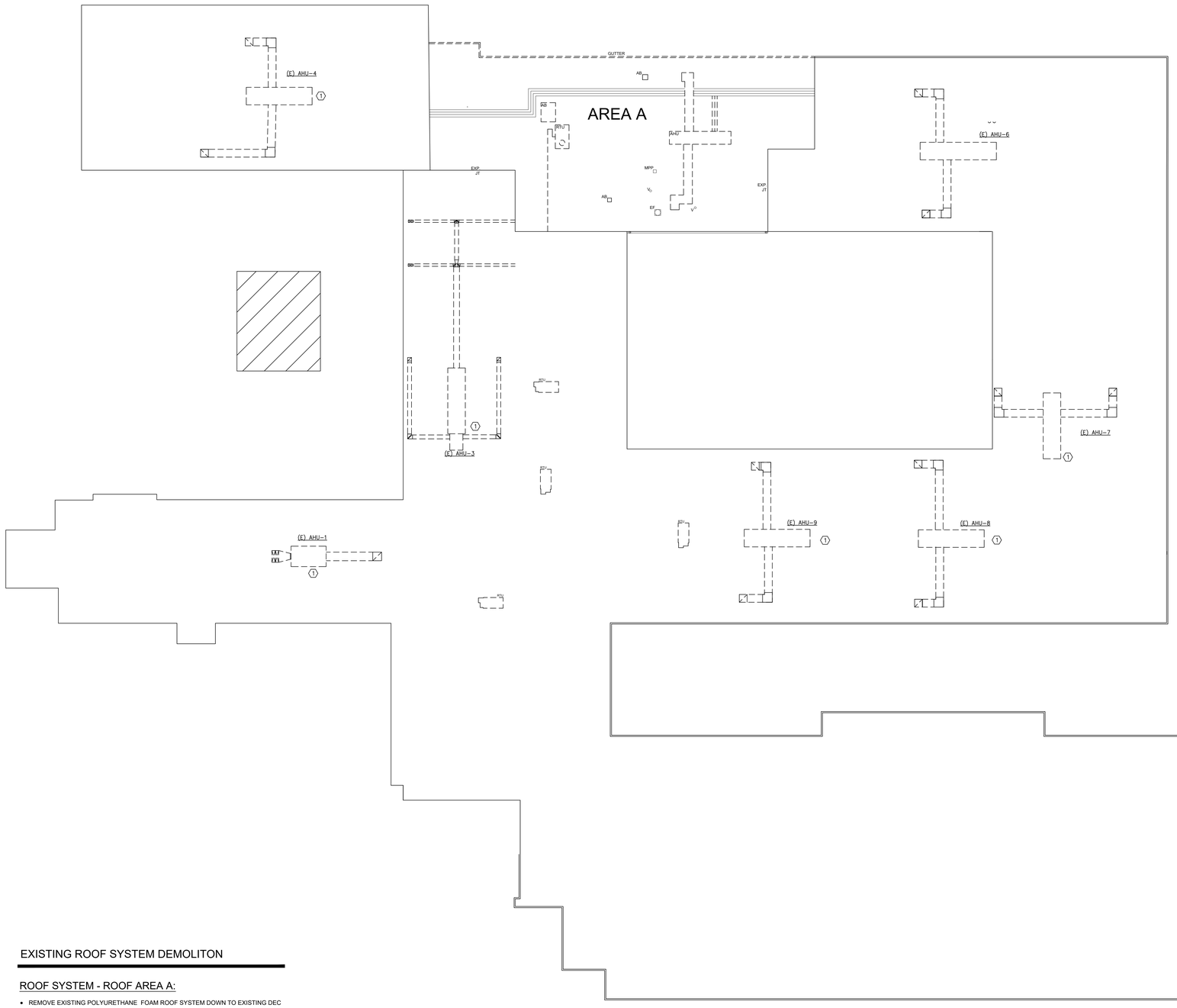
DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
DESIGN DEVELOPMENT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.04.23
Revised:

Sheet Title
FLOOR PLAN - AREA A

Sheet Number
A2.02



LEGEND

- GUTTER, DOWNSPOUT, AND SPLASH BLOCK REFER TO DETAIL: (DS)
- EJ — EXPANSION JOINT
- EF — EXHAUST FAN
- V — VENT
- AHU — AIR HANDLING UNIT
- RTU — ROOF TOP UNIT

EXISTING ROOF SYSTEM DEMOLITON

ROOF SYSTEM - ROOF AREA A:

- REMOVE EXISTING POLYURETHANE FOAM ROOF SYSTEM DOWN TO EXISTING DEC

DEMOLITION SCOPE:
- REMOVE ALL ROOFING RELATED SHEET METAL INCLUDING EDGE METAL AND COUNTER FLASHINGS
- INSPECT EXISTING DECK AND ENSURE IT IS STRUCTURALLY SOUND
- REMOVE ALL PITCH PAN PENETRATIONS

1 DEMOLITION ROOF PLAN

1/16" = 1'-0"

CITY OF DALLAS STAMP

CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel: 972.934.7600

ISSUED FOR INTERIM REVIEW

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

E.J. COPELAND, A.I.A.
TEXAS REG'N #10191

DRYTEC
Moisture Protection Technology Consultants
8750 N. Central Expwy.
Suite 725
Dallas, Texas 75231
Voice 214-363-2192
Fax 214-818-9813

DALLAS ISD - ORG135
JOHN W. RUNYON ELEMENTARY SCHOOL
10750 Cladlerock
Dallas, Texas 75217
Schematic Design

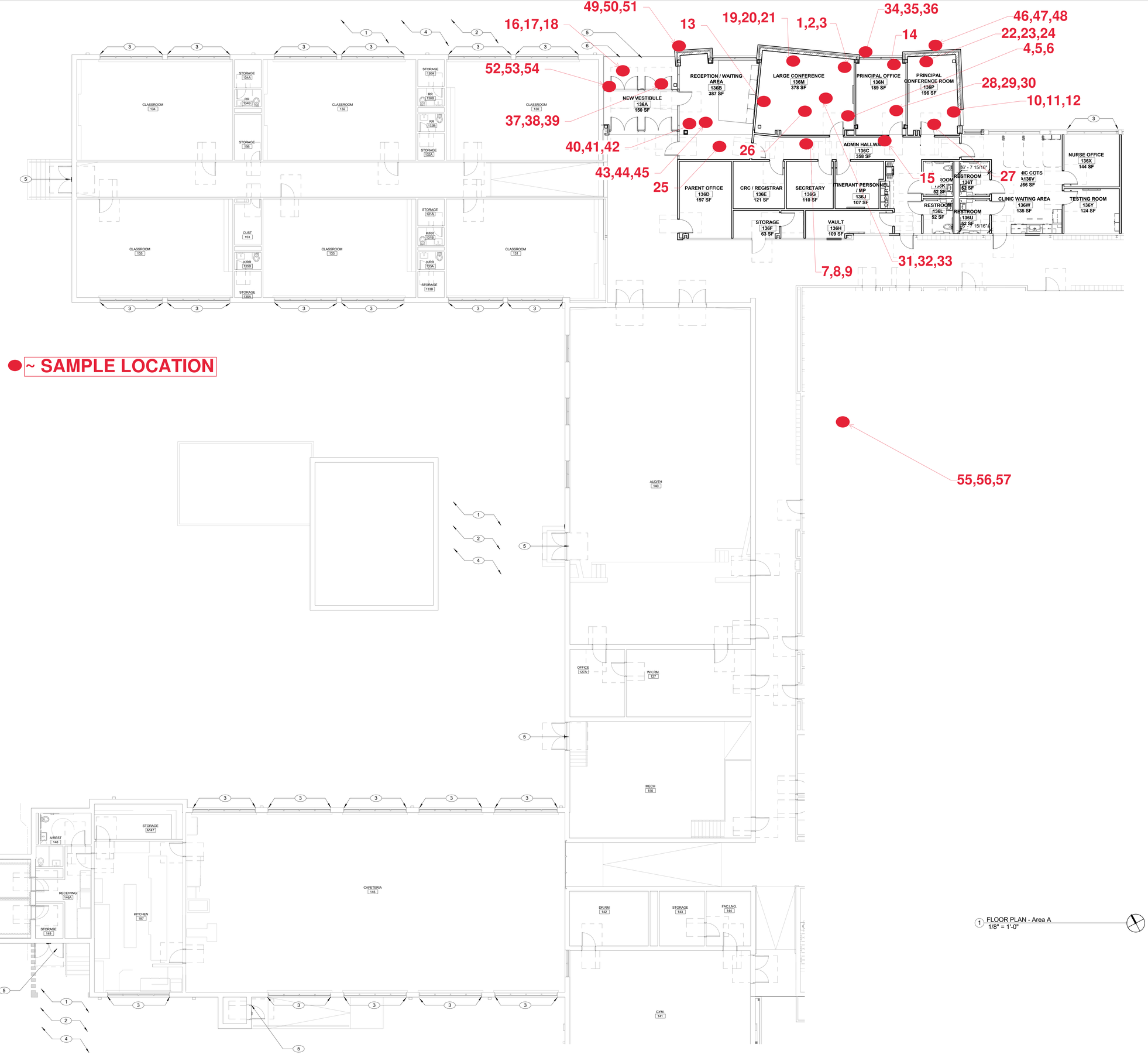
© CaCo Architecture LLC 2023

Project Number
2022.010

Issue Date
09.29.23
Revised:

Sheet Title
OVERALL
DEMOLTION PLAN

Sheet Number
RD1.01



1 FLOOR PLAN - Area A
1/8" = 1'-0"

CITY OF DALLAS STAMP

GENERAL NOTES

1. COORDINATE EXTENTS OF SCOPE WITH ALL OTHER SHEETS ON SET OF DRAWINGS
2. PROVIDE BULDING WIDE SIGNAGE PACKAGE INCLUSIVE OF ALL ROOMS, DIRECTORY, WAY FINDING, STORM SHELTER, AND EVACUATION PLANS; REFER TO SPECIFICATIONS.
3. PROVIDE FRT BLOCKING AT ALL WALLS TO RECEIVE WALL MOUNTED ITEMS.
4. ALL DOORS 4" OFF HINGE SIDE WALL U.N.O.
5. ALL EXPANSION JOINTS TO RECEIVE COVERS.
6. COLUMNS ARE TO BE FURR-OUT AS TIGTH AS POSSIBLE U.N.O.
7. PROVIDE CORNER GUARDS AS SPECIFIED ON ALL EXTERIOR CORNERS .

LEGEND

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- AREA OF EXPANSION

KEYED NOTES

NOTE: NOT ALL KEYED NOTES APPEAR ON ALL DRAWING SHEETS

1 PAINT ALL PREVIOUSLY PAINTED SURFACES: GUTTERS, FASCIAS & DOWNSPOUTS

2 REPLACE SEALANTS, CONTROL JOINTS, EXPANSION JOINTS

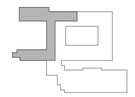
3 REMOVE & REPLACE SECURITY SCREENS WITH 3M WINDOW FILMS AT 1ST FLOOR WINDOWS

4 ALL EXTERIOR SURFACES TO BE CLEANED, REFER TO SPECIFICATIONS

5 NEW BUILDING SIGNAGE

6 NEW MARQUEE SIGN

KEYPLAN



CaCo architecture
1412 Main Street, Suite 1600 | Dallas, TX 75202 | Tel. 972.934.7600

ISSUED FOR INTERIM REVIEW

THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

MYRIAM E. CAMARGO, F.A.I.A.
TEXAS REG'N #13791

DATE: 09.29.23

DALLAS ISD
JOHN W. RUNYON ELEMENTARY SCHOOL - ORG 237
10750 CLADLEROCK DRIVE
DALLAS, TX 75217
DESIGN DEVELOPMENT

© CaCo Architecture LLC

Project Number
2022.012
Issue Date
10.04.23
Revised:

Sheet Title
FLOOR PLAN - AREA A

Sheet Number
A2.02