WIMBISH WORLD LANGUAGE ACADEMY

ARLINGTON, TEXAS



OWNER

ARLINGTON INDEPENDENT SCHOOL DISTRICT
690 E. LAMAR BLVD.
ARLINGTON, TEXAS 76011

ARCHITECT

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MEP

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STRUCTURAL

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ROOFING

ARMKO INDUSTRIES, INC
1320 SPINKS RD
FLOWER MOUND, TEXAS 75028
(940) 448-2040

BID SET

April 27 , 2026

PROJECT NO. 26399.004

ALTERNATES

ALTERNATE 01

SCOPE: FIRE LANE EXTENSION

REF. SHEETS:
A1.01 - SITE PLAN
CIVIL SET

ALTERNATE 02

SCOPE: NEW 2X2 ACT CEILING AND LED LIGHTING IN LIBRARY

REF. SHEETS:
AD4.00, A4.00
MEP SET

ALTERNATE 03

SCOPE: NEW LED LIGHTING IN NORTH CORRIDOR, STEM, AND MUSIC ROOMS

REF. SHEETS:
AD4.00, A4.00

ALTERNATE 04

SCOPE: PROVIDE UNIT PRICE PER TOILETS FOR POSSIBLE REPLACEMENTS.

UNIT PRICE TO INCLUDE ALL DEMOLITION, DISPOSAL, PATCHING, PLUMBING MODIFICATIONS, AND COMPLETE INSTALLATION.

DRAWING ABBREVIATIONS

A

AB	ANCHOR BOLT
AD	AREA DRAIN
AC	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AL ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL

B

B.M.	BENCH MARK
BD	BOARD
BETW	BETWEEN
BF	BACKFACE
BG	BUMPER GUARD
BL	BED LOCATOR
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BR	BUMPER RAIL
BRG	BEARING
BSMT	BASEMENT
BU ROD	BACK-UP ROD
BUR	BUILT-UP ROOF
BW	BEARING WALL

C

C	COMPACT PARKING SPACE
CC	CUBICK CURTAIN
CDR	CARD READER
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPE	CHLORINATED POLYETHYLENE
COOR	CORRIDOR
CR	COLD ROLLED
CR	CRASH RAIL
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTD	CENTERED
CTR	CENTER
CW	CURTAIN WALL

D

D	DEPTH
DBA	DEFORMED BAR ANCHOR
DET	DETAIL
DF	DECORATIVE FILM
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DJ	DEFLECTION JOINT
DL	DEAD LOAD
DN	DOWN
DRG	DRAWING
DS	DOWN SPOUT
DWGS	DRAWINGS
DWLS	DOWELS

E

EA	EACH
EF	EACH FACE
EFG	ENTRANCE FLOOR GRILLE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP BLT	EXPANSION BOLT
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIB	FIBERGLASS
FIN	FINISH
FLR	FLOOR
FS	FAR SIDE
FT	FOOT
FT	FLOOR TRANSITION
FTG	FOOTING
FV	FIELD VERIFY
FVC	FIRE VALVE CABINET

G

GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GFRC	GLASS-FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLASS
GM	GLAZED MASONRY UNIT
GND	GROUND
GR	GRADE
GRG	GLASS-REINFORCED GYPSUM
GYP BD	GYPSUM BOARD

H

HB	HOSE BIB
HDW	HARDWARE
HDWD	HARDWOOD
HK	HOOK
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HEADED STUD
HSKP	HOUSEKEEPING
HT	HEIGHT
HW	HAND WASH
HW	HEAD OF WALL

I

IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR

J

K

K	KIPS (1000 LB)
KO	KNOCK-OUT
KP	KICKPLATE
KPD	KEYPAD
KSF	KIPS PER SQUARE FOOT

L

L	ANGLE
LAV	LAVATORY
LG	LONG
LKB	LOCKABLE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE

M

MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFG	MANUFACTURER
MGO	MEDICAL GAS OUTLET
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOB	MEDICAL OFFICE BUILDING
MOD BIT	MODIFIED BITUMEN
MOD	MODIFIED
MSL	MEAN SEA LEVEL
MTL	METAL

N

NA	NOT AVAILABLE
NIC	NOT IN CONTRACT
NOA	NOTICE OF ACCEPTANCE
BY	FLORIDA GOVERNING AUTHORITY
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE

O

OA	OVER ALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSF	OUTSIDE FACE

P

P LAM	PLASTIC LAMINATE
PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PENT	PENTHOUSE
PL	PROPERTY LINE
PL	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PP	PUSH PLATE
POL	POLISHED
PORT CEM	PORTLAND CEMENT
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PT	PNEUMATIC TUBE
PTD	PAINTED

R

R	RISER
RAD	RADIUS
RAF	RUBBERIZED ASPHALT FLASHING
RAM	RUBBERIZED ASPHALT MEMBRANE
RAU	RUBBERIZED ASPHALT UNDERLAYMENT
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECP	RECEPTACLE
REF	REFER OR REFERENCE
REINF	REINFORCING
RELOC	RELOCATE/RELOCATED
REQ'D	REQUIRED
RFVC	RECESSED FIRE VALVE CABINET
RS	ROOF SCUPPER
RM	ROOM
RO	ROUGH OPENING

S

SAB	SOUND ATTENUATION BLANKET
SBC	STANDARD BUILDING CODE
SCHED	SCHEDULE
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
S/H	SINGLE HUNG
SHWR	SHOWER
SIM	SIMILAR
SO	STRUCTURAL OPENING
SOG	SLAB ON GRADE
SP	STAND PIPE
SPA	SPACE, SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSF	SOLID SURFACE
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
SYS	SYSTEM

T

T	TREAD
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICK
TLT	TOILET
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TRSH CH	TRASH CHUTE
TW	TOP OF WALL
TYP	TYPICAL

U

U/C	UNDER COUNTER
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

V

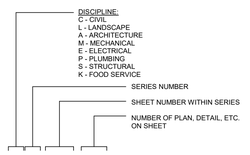
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VWC	VINYL WALL COVERING

W

W/	WITH
W/C	WHEEL CHAIR
W/O	WITHOUT
W	WIDTH
WP	WATERPROOF(ING)
WD	WOOD
WF	WIDE FLANGE
WL	WIND LOAD
WP	WORK POINT
WPO	WORK POINT - POINT OF ORIGIN
WP1	WORK POINT - NUMBERED
WWF	WELDED WIRE FABRIC

INDEX OF DRAWINGS

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A0.01	PROJECT INFORMATION	X	X
CIVIL			
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C1.01	PLAT		X
C1.02	GENERAL NOTES		X
C1.03	GENERAL NOTES 2		X
C1.04	SITE PLAN		X
C1.05	DEMOLITION PLAN		X
C1.06	DIMENSION CONTROL PLAN		X
C1.07	OVERALL GRADING PLAN		X
C1.08	GRADING PLAN 1		X
C1.09	GRADING PLAN 2		X
C1.10	GRADING PLAN 3		X
C1.11	GRADING PLAN 4		X
C1.12	WATER PLAN		X
C1.13	SANITARY SEWER PLAN		X
C1.14	EXISTING DRAINAGE AREA MAP		X
C1.15	PROPOSED DRAINAGE AREA MAP		X
C1.15A	HYDRAULIC CALCS		X
C1.16	STORM SEWER PLAN		X
C1.17	STORM WATER MANAGEMENT PLAN		X
C1.18	STORM WATER MANAGEMENT NOTES		X
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C2.05	SIGNAGE & STRIPING DETAILS		X
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C2.07	WATER DETAILS		X
C2.08	STORM SEWER DETAILS		X
C2.09	STORM SEWER DETAILS 2		X
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C2.11	STORM WATER MANAGEMENT DETAILS		X
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L1.03	TREE CONSERVATION DETAILS		X
L2.00	IRRIGATION KEY PLAN		X
L2.01	IRRIGATION PLAN ENLARGEMENT		X
L2.02	IRRIGATION PLAN ENLARGEMENT		X
L2.03	IRRIGATION DETAILS		X
L3.00	PLANTING KEY PLAN		X
L3.01	PLANTING PLAN ENLARGEMENT		X
L3.02	PLANTING PLAN ENLARGEMENT		X
L3.03	PLANTING SCHEDULE AND DETAILS		X
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ALS.02	LIFE SAFETY PLAN - STORM SHELTER	X	X
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AD4.01	DEMOLITION REFLECTED CEILING PLAN - AREA A	X	X
AD4.03	DEMOLITION REFLECTED CEILING PLAN - AREA C	X	X
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A1.01	SITE PLAN	X	X
A2.00	OVERALL FLOOR PLAN	X	X
A2.01	FLOOR PLAN - AREA A	X	X
A2.02	RESTROOM RENOVATION	X	X
A2.21	ROOF PLAN & DETAILS - AREA A	X	X
A2.22	ROOF PLAN DETAILS	X	X
A2.41	FINISH FLOOR PLAN - AREA A	X	X
A4.00	OVERALL REFLECTED CEILING PLAN	X	X
A4.01	REFLECTED CEILING PLAN - AREA A	X	X
A4.03	REFLECTED CEILING PLAN - AREA C	X	X
A4.04	REFLECTED CEILING PLAN - AREA D	X	X
A5.01	ELEVATIONS AND SECTIONS	X	X
A6.01	BUILDING SECTIONS	X	X
A7.01	BUILDING DETAILS	X	X
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S2.01	FOUNDATION PLAN	X	X
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S3.01	SECTIONS AND DETAILS	X	X
S3.02	BUILDING ELEVATIONS	X	X
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M8.02	UNIT B - MECHANICAL PLAN - DEMO	X	X
M8.03	UNIT C - MECHANICAL PLAN - DEMO	X	X
M8.04	UNIT D - MECHANICAL PLAN - DEMO	X	X
M8.11	UNIT A - MECHANICAL PLAN	X	X
M8.12	UNIT B - MECHANICAL PLAN	X	X
M8.13	UNIT C - MECHANICAL PLAN	X	X
M8.14	UNIT D - MECHANICAL PLAN	X	X
M8.21	UNIT A - MECHANICAL PLAN - ROOF	X	X
M8.41	MECHANICAL DETAILS	X	X
M8.51	MECHANICAL LEGENDS	X	X
M8.61	MECHANICAL SCHEDULES	X	X
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E10.02	UNIT A - ELECTRICAL PLAN - DEMO		X
E10.03	UNIT B - ELECTRICAL PLAN - DEMO	X	X
E10.04	UNIT C - ELECTRICAL PLAN - DEMO	X	X
E10.05	UNIT D - ELECTRICAL PLAN - DEMO	X	X
E10.10	UNIT A - LIGHTING PLAN	X	X
E10.11	UNIT A - LIGHTING PLAN - ALT 03	X	X
E10.12	UNIT B - LIGHTING PLAN	X	X
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E10.30	UNIT A - ELECTRICAL PLAN - ROOF	X	X
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E10.52	ELECTRICAL DETAILS	X	X
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E10.71	ELECTRICAL PANEL SCHEDULES	X	X
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PD9.11	UNIT A/B - DEMO PLUMBING PLAN	X	X
P9.00	PLUMBING SITE PLAN	X	X
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P9.22	UNIT C/D - PLUMBING PLAN	X	X
P9.31	UNIT A/B - PLUMBING ROOF PLAN	X	X
P9.41	PLUMBING RISER	X	X
P9.51	PLUMBING DETAILS	X	X
P9.61	PLUMBING LEGENDS & SCHEDULES	X	X
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T12.00	TECHNOLOGY NOTES AND LEGENDS	X	X
T12.01	TECHNOLOGY COMPOSITE PLAN		X
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T12.03	UNIT B - TECHNOLOGY PLAN - DEMO	X	X
T12.12	UNIT A - TECHNOLOGY PLAN	X	X
T12.13	UNIT B - TECHNOLOGY PLAN		X
T12.14	UNIT C - TECHNOLOGY PLAN		X
T12.31	ENLARGED TECHNOLOGY PLAN	X	X
T12.41	TECHNOLOGY DETAILS	X	X
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T12.43	TECHNOLOGY DETAILS	X	X
T12.44	TECHNOLOGY DETAILS	X	X

BUILDING SUMMARY

PROJECT INFORMATION

PROJECT NAME: WIMBISH WORLD LANGUAGE ACADEMY

K-POD (TO BE DEMOLISHED) - 2,738 SF
GYM ADDITION - 6151 SF

ADDRESS: 1601 WRIGHT ST, ARLINGTON, TX 76012

PROPOSED USE: EDUCATION

APPLICABLE CODES

- BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE
- MECHANICAL: 2021 INTERNATIONAL MECHANICAL CODE
- PLUMBING: 2021 INTERNATIONAL PLUMBING CODE
- ELECTRICAL: 2020 NATIONAL ELECTRIC CODE
- ENERGY CODE: 2021 INTERNATIONAL ENERGY CONSERVATION CODE W/ LOCAL AMENDMENTS
- FIRE CODE: 2021 INTERNATIONAL FIRE CODE
- 2012 TEXAS ACCESSIBILITY STANDARDS

BUILDING PLANNING

OCCUPANCY: EDUCATION (E) NON SEPARATED USE

MIXED OCCUPANCY? YES / (NO)

REQUIRED FIRE SEPARATION: N/A

TYPE OF CONSTRUCTION

CONSTRUCTION TYPE: TYPE II-B SPRINKLERED

ESSENTIAL FACILITY (CHAPTER 16, IBC)

ESSENTIAL FACILITY? YES / (NO)

GENERAL BUILDING LIMITATIONS

HIGH RISE? YES / (NO)

ITEM	ALLOWED	ACTUAL
HEIGHT OF BUILDING	75 FEET	30'-7"
NUMBER OF STORIES	3	1
MAX SINGLE FLOOR AREA	43,500 (MULTI-STORY)/58,000(SINGLE)*	6,167
MAX TOTAL AREA OF BUILDING	130,500	6,167
ROOF STRUCTURE	X	X
PARKING SPACES	EXISTING - NO NEW OCCUPANTS ADDED	

FIRE PROTECTION SYSTEMS

- FIRE EXTINGUISHING SYSTEM: (YES) / NO - NEW ADDITION AREAS TO BE FULLY SPRINKLERED
  - TYPE: X
- STANDPIPE SYSTEM: YES / (NO)
  - CLASS: X
- SMOKE CONTROL: YES / (NO)

FIRE RESISTANT CONSTRUCTION/FIREPROOFING SCHEDULE

ITEM	REQ'D RATING / HR	UL/FM # WHERE APPLICABLE
- PRIMARY STRUCTURAL FRAME	0	X
- BEARING WALLS		
- EXTERIOR	0	X
- INTERIOR	0	X
- NONBEARING WALLS AND PARTITIONS		
- EXTERIOR	0	X
- INTERIOR	0	X
- FLOOR/CEILING	0	X
- ROOF/CEILING	0	X

FIRE PROOFING NOTES

1. ALL FIRE RESISTIVE RATINGS ARE ASSUMED TO BE THERMALLY RESTRAINED.
2. ALL BEAMS AND COLUMNS SHALL BE ADJUSTED USING W/D OR A/P RATIOS TO DETERMINE THE CORRECT FIREPROOFING THICKNESS.

VICINITY MAP

WIMBISH WORLD LANGUAGE ACADEMY
1601 WRIGHT ST, ARLINGTON, TX 76012



© 2026 HKS, INC.

HKS

ARCHITECT

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MEP

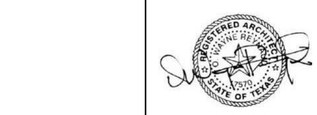
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STRUCTURAL

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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
PROJECT INFORMATION

SHEET NO.
A0.01

PLOT DATE:
4/24/2026 9:07:27 AM TEMPLATE VERSION: 23.0.4

SITE PLAN

ARLINGTON INDEPENDENT SCHOOL DISTRICT
WIMBISH WORLD LANGUAGE ACADEMY- 1524 W RANDOL MILL ROAD
LOT A, BLOCK 22
FOREST PARK ADDITION
ARLINGTON, TEXAS

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ARLINGTON, TEXAS 76015



LOCATION MAP
N.T.S.

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C1.03	GENERAL NOTES 2
C1.04	SITE PLAN
C1.05	DEMOLITION PLAN
C1.06	DIMENSION CONTROL
C1.07	OVERALL GRADING PLAN
C1.08	GRADING PLAN 1
C1.09	GRADING PLAN 2
C1.10	GRADING PLAN 3
C1.11	GRADING PLAN 4
C1.12	WATER PLAN
C1.13	SANITARY SEWER PLAN
C1.14	EXISTING DRAINAGE AREA MAP
C1.15	PROPOSED DRAINAGE AREA MAP
C1.15A	HYDRAULIC CALCS
C1.16	STORM SEWER PLAN
C1.17	STORM WATER MANAGEMENT PLAN
C1.18	STORM WATER MANAGEMENT NOTES
C2.01	SIDEWALK DETAILS
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C2.03	PAVING DETAILS
C2.04	SANITARY SEWER DETAILS
C2.05	SIGNAGE & STRIPING DETAILS
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C2.09	STORM SEWER DETAILS 2
C2.10	STORM WATER MANAGEMENT DETAILS
C2.11	STORM WATER MANAGEMENT DETAILS 2
L1.00	TREE CONSERVATION AND REMOVAL KEY
L1.01	TREE CONSERVATION AND REMOVAL PLAN ENLARGEMENT
L1.02	TREE CONSERVATION DETAILS
L3.00	PLANTING KEY PLAN
L3.01	PLANTING PLAN ENLARGEMENT
L3.02	PLANTING SCHEDULE AND DETAILS
A5.01	EXTERIOR ELEVATIONS

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT, SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
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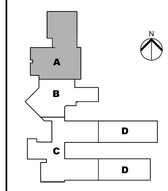
STRUCTURAL
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
MICHAEL A. THOMAS
93640
LICENSED
PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

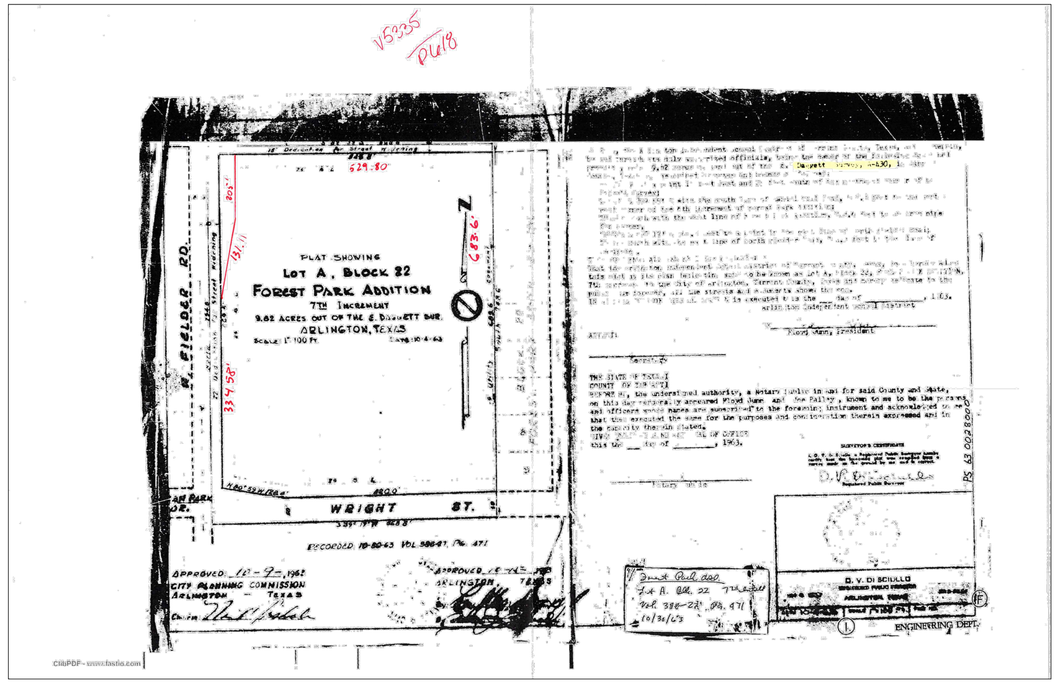
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SHEET NO.
C1.00

PLOT DATE: 12/26/2025 11:31:32 AM TEMPLATE VERSION 23.0.4

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PLAT

C1.01

NOTE:

ALL OVERHEAD ELECTRIC LINES SHALL MEET THE HEIGHT REQUIREMENTS SET FORTH BY THE CITY FIRE DEPARTMENT AND UTILITY OWNER. CONTRACTOR SHALL ADJUST/RAISE EXISTING OVERHEAD ELECTRIC LINES CROSSING FIRE LANES AS REQUIRED TO MEET THE FIRE DEPARTMENT REQUIREMENTS. CONTRACTOR SHALL LOCATE ALL EXISTING OVERHEAD ELECTRIC LINES PRIOR TO ANY CONSTRUCTION. COORDINATE WITH UTILITY OWNER.

WARNING TO CONTRACTOR:

CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. MJ THOMAS ENGINEERING IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

EXISTING IRRIGATION SYSTEM NOTE:

THE CONTRACTOR SHALL PROTECT ALL EXISTING SPRINKLER HEADS, LINES, ETC. DURING THE DURATION OF CONSTRUCTION. ANY SPRINKLER LINES, HEADS, METERS, VALVES, ETC. THAT ARE DAMAGED OR RELOCATED BY CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO ORIGINAL CONDITION OR BETTER (NO SPECIAL PAY). COORDINATE WITH OWNER AND/OR LANDSCAPE IRRIGATION PLANS.

UTILITY RELOCATION NOTE:

IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE UTILITIES, CABLE BOXES, FIBER OPTIC CABLE, ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY AND/OR ALL SUCH UTILITIES (NO SPECIAL PAY).

CONTRACTOR ADVISORY:

THE CONTRACTOR, AND HIS AGENTS, SUB CONTRACTOR/ENGINEER/SURVEYOR, ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER, AND HIS AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL OF THE COORDINATES FOR ACCURACY AND CONFIRM THE LOCATIONS OF ALL UTILITIES TO BE CONSTRUCTED, BOTH HORIZONTALLY AND VERTICALLY. DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED IN WRITING, TO THE OWNER IMMEDIATELY FOR RECONCILIATION.

HYDROMULCH NOTE:

ALL AREAS OF THE SITE INCLUDING ANY OFF-SITE AREA THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES, SHALL RECEIVE AT A MINIMUM, HYDROMULCH AND 6" OF TOP-SOIL. REFER TO LANDSCAPE, DEMOLITION, GRADING, PAVING, DRAINAGE, WATER, SEWER, IRRIGATION AND SEDIMENT CONTROL PLANS TO DETERMINE ALL LIMITS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE SOD AS REQUIRED ELSEWHERE IN THE PLANS.

!!! CRITICAL !!!

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION.

UNDERGROUND FACILITIES AND TELEPHONE NUMBERS

THE LOCATION OF UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM THE PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES.

UNDERGROUND FACILITY OWNER TELEPHONE NUMBER

ARLINGTON TRANSPORTATION & PUBLIC WORKS	(817)459-6550
ARLINGTON WATER DEPARTMENT	(817)275-5931
ATMOS ENERGY	(866)322-8667
ONCOR GAS & ELECTRIC	(888)313-4747
CHARTER COMMUNICATIONS	(800)DIG-TESS
CITY OF ARLINGTON	(817)265-3311
ALL OTHER UTILITIES	(800)DIG-TESS

811 Know what's below. Call before you dig.

THE PURPOSE OF THESE PLANS IS TO PROVIDE GUIDE FOR THE BIDDING PROCESS TO CONSTRUCT ALL ITEMS SHOWN HEREIN UNLESS DELETED BY REFERENCE.
ITEMS INCLUDING, BUT ARE BUT NOT LIMITED TO:
EXCAVATION (ALL SITE WORK SHOWN)
COMPACTED FILL (CONTROLLED DENSITY EMBANKMENT)
WATER LINES AND APPURTENANCES
SANITARY SEWER LINES AND APPURTENANCES
STORM SEWER LINES AND APPURTENANCES
DISPOSAL OF ALL DEMOLISHED MATERIALS AND TREES
STRIPING FOR FIRE LANES AND PARKING AREAS
STABILIZED SUBGRADE
CONCRETE PAVING 9" THICK AND MONO CURB
CONCRETE SIDEWALKS 5" THICK WITH A.D.A. RAMPS
CONCRETE CURB STOPS AT A.D.A. PARKING SPACES WHERE REQUIRED BY CODE
EXCAVATION (ALL SITE WORK SHOWN)

BENCHMARKS:

PROJECT BENCHMARK # 1

BENCHMARK NUMBER 1 IS AN X-CUT FOUND ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE EXISTING CURB INLET IN THE NORTHERN MOST STALL OF PARKING IN THE SCHOOL WEST SIDE PARKING LOT.

LEGEND

	EXISTING FEATURES	PROPOSED FEATURES
EXISTING OIL LINE	FIRE HYDRANT	FIRE HYDRANT
EXISTING ASPHALT PAVEMENT	WATER VALVE	WATER VALVE
PROPERTY LINES	GAS METER	FIRE RISER
CENTERLINE OF ROAD	WATER METER	PLUG
SAWCUT/EASEMENT	TELEPHONE RISER	WATER METER
EXISTING GAS LINE	POWER POLE	IRRIGATION METER
EXISTING OVERHEAD ELECTRIC LINES	MAIL BOX	DETECTOR CHECK
EXISTING UNDERGROUND ELECTRIC LINES	IRON PIN	CURB INLET
EXISTING CABLE/TELEVISION LINES	TRAVERSE POINT	GRATE INLET
EXISTING FIBER-OPTIC LINES	SIGN	STORM SEWER MANHOLE
EXISTING TELEPHONE LINES	FENCE CORNER	SANITARY SEWER MANHOLE
EXISTING SANITARY SEWER LINES	LIGHT POLE	
EXISTING WATER LINES	GUY WIRE ANCHOR	
BARBED-WIRE FENCE	TREE	
CHAIN-LINK FENCE	BUSH	
ELECTRIC FENCE	TRANSMISSION TOWER	
WOOD FENCE		
MISC. FENCES (AS APPLICABLY NOTED)		
STORM SEWER PIPE (OUTSIDE PIPE DIA. SHOWN)		

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION METHODS OF THE CONTRACT SHALL BE AS STATED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) AND IN STRICT ACCORDANCE WITH THE STANDARDS OF THE CITY IN WHICH THE CONSTRUCTION OCCURS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE CONSTRUCTION AREA BEFORE COMMENCING CONSTRUCTION. THE LOCATIONS OF ALL SPRINKLER SYSTEM LINES SHALL BE LOCATED BEFORE ANY EXCAVATION OCCURS. ANY DAMAGE TO SPRINKLER SYSTEM SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACT PRICE.
3. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE BUT ARE NOT LIMITED TO TRENCH BACK FILL, SIDE SLOPES, FENCES, IRRIGATION SYSTEMS, CULVERT PIPES, DRAINAGE DITCHES, DRIVEWAYS, PRIVATE YARDS, AND ROADWAYS. THE CONTRACTOR SHALL INCLUDE PAVEMENT RESTORATION AND SHALL BE CONSIDERED SUBSIDIARY TO HIS BID PRICE.
4. ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AT THE EXISTING OR PROPOSED LOCATION AS DIRECTED BY THE OWNER'S PROJECT REPRESENTATIVE.
5. REMOVAL OF EXISTING CULVERTS AND DRAINAGE STRUCTURES WILL BE SUBSIDIARY TO THE BID PRICE.
6. IN THE EVENT THAT EXISTING UTILITIES SUCH AS WATER, GAS, TELEPHONE, ELECTRIC, ETC. MUST BE TAKEN OUT OF SERVICE TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SATISFACTION OF THE OWNER. BACK FILL FOR WATER AND SEWER LINES SHALL BE PER CITY DETAILS.
7. IF GROUNDWATER IS ENCOUNTERED WHEN LAYING UTILITY LINES, 3/4" WASHED ROCK MUST BE PLACED 6" BELOW AND 6" ABOVE THE UTILITY LINE.
8. ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND FLAGGING SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC CONTROL PLAN.
9. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT EROSION OCCURS AS A RESULT OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION PRIOR TO HYDROMULCHING. HYDROMULCHING SHALL INCLUDE ALL TEMPORARY WATER DISTRIBUTION.
10. CONTRACTOR SHALL STRIP TOP SOIL & STORE IN DESIGNATED STOCK PILE AREA SHOWN ON THE PLAN, OR AS DIRECTED BY THE OWNERS PROJECT REPRESENTATIVE.
11. CONTRACTOR SHALL IDENTIFY ALL TREES TO BE SAVED AS INDICATED ON THE CONSTRUCTION DRAWINGS WITH PINK RIBBONS AND SHALL PROTECT AND SAVE ALL TREES AS MARKED, NO EXCAVATION, STOPPING, STANDING, STAGING, STORING, DRIVING OR PARKING ALLOWED IN DRIP LINE OF TREES UNLESS SHOWN ON THE CONSTRUCTION PLANS.
12. ROUGH GRADING SHALL BE WITHIN 0.1 FT. + OR – OF FINISHED GRADES SHOWN ON THE SITE GRADING. UNDER PAVEMENT FINISHED GRADES WILL BE CONSTRUCTED TO THE TOP OF SUBGRADE. FINISHED GRADE SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS, WITHIN + OR – 0.02'.
13. THE CONTRACTOR SHALL INSTALL ALL GRAVITY LINES (SANITARY SEWER, STORM SEWER AND FRENCH DRAINS) BEFORE INSTALLATION OF WATER LINES AND APPURTENANCES.
14. THE CONTRACTOR, AND HIS AGENTS, SUB-CONTRACTOR/ENGINEER/SURVEYOR, ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER, AND HIS AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL OF THE COORDINATES FOR ACCURACY AND CONFIRM THE LOCATIONS OF ALL UTILITIES TO BE CONSTRUCTED, BOTH HORIZONTALLY AND VERTICALLY. DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED, IN WRITING, TO THE OWNER IMMEDIATELY FOR RECONCILIATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SWPPP IN ACCORDANCE WITH THE REQUIREMENTS OF THE TPDES GENERAL PERMIT TXR 1500000. THE CONTRACTOR SHALL SPECIFY THE PLAN AS A JOINT SWPPP FOR BOTH THE CONTRACTOR AND THE OWNER. THE OWNER WILL PREPARE THE OWNER'S N.O.I., BUT THE CONTRACTOR SHALL SUBMIT BOTH THE CONTRACTOR'S AND THE OWNER'S N.O.I. AFTER COMPLETION OF THE SWPPP TO THE TCEQ. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SUBMITTING OTHER DOCUMENTS REQUIRED BY THE TPDES GENERAL PERMIT TXR 1500000, INCLUDING THE N.O.T. ALL DOCUMENTS SHALL BE SUBMITTED ACCORDING TO THE SCHEDULE INDICATED IN THE TPDES GENERAL PERMIT TXR 1500000.
16. ALL TREES WITHIN THE CONSTRUCTION ZONE SHALL BE WARRANTED FOR SURVIVAL BY THE CONTRACTOR FOR ONE YEAR AFTER THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY TO THE OWNER. ANY TREES THAT DIE PRIOR TO OR WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHIN 10 DAYS OF A WRITTEN REQUEST FROM THE OWNER WITH THE SAME SIZE AND SPECIES OF TREES. THE CONTRACTOR SHALL INCLUDE THIS COST IN HIS BID PRICE.
17. CONTRACTOR SHALL PROVIDE TO THE ENGINEER, COPIES OF ALL PROCTOR TESTS AND CYLINDER BREAKS. INCLUDING REPORTS OF DENSITY TESTS ON ALL BACK FILL FOR THE UTILITY LINES.
18. BEFORE SUBMITTING THEIR BID, EACH BIDDER MUST: (A) EXAMINE THE CONTRACT DOCUMENTS THOROUGHLY. (B) VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT PERFORMANCE OF THE WORK, (C) FAMILIARIZE THEMSELVES WITH FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS WHICH MAY IN ANY MANNER AFFECT PERFORMANCE OF THE WORK, AND (D) CAREFULLY CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. REFERENCE IS MADE TO THE SUPPLEMENTARY CONDITIONS FOR THE IDENTIFICATION OF THE SURVEYS AND INVESTIGATION REPORTS OF SUBSURFACE OR PATENT EXISTING PHYSICAL CONDITIONS AFFECTING THE CONTRACT DOCUMENTS OR SPECIFICATIONS. THE DATA IS FURNISHED FOR INFORMATION ONLY AND NEITHER THE OWNER NOR ENGINEER GUARANTEES THE ACCURACY OF SUCH DATA. BEFORE SUBMITTING THEIR BID EACH BIDDER WILL, AT THEIR OWN EXPENSE, MAKE SUCH ADDITIONAL SURVEYS AND INVESTIGATIONS AS THEY MAY DEEM NECESSARY TO DETERMINE THEIR BID PRICE FOR PERFORMANCE OF THE WORK WITHIN THE TERMS OF THE CONTRACT DOCUMENTS.
19. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL UTILITIES.
20. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION CONTROL MEASURES ONCE FINAL GROUND STABILIZATION IS ESTABLISHED.
21. A TRAFFIC CONTROL PLAN THAT COMPLIES WITH THE REQUIREMENTS SET FORTH IN THE WORK AREA TRAFFIC CONTROL MANUAL SHALL BE SUBMITTED BY THE CONTRACTOR TO AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, TRAFFIC ENGINEERING MANAGER PRIOR TO THE INSTALLATION OF THE DRIVE APPROACHES.
22. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THIS PROJECT WITH THE CONSTRUCTION SERVICES MANAGER. NOTIFICATION SHOULD BE MADE AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION SO THAT AN INSPECTOR MAY BE ASSIGNED TO THIS PROJECT.
23. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY STANDARD DETAILS.
24. IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ENGINEERS INTERPRETATION.
25. ALL EXISTING UTILITY LINE REPLACEMENTS SHALL BE COMPLETED WITH THE SAME MATERIAL AS THE EXISTING FACILITY OR PER CURRENT CITY REQUIREMENTS.
26. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DISPOSE OF ALL SURPLUS SOIL AND EXCAVATED MATERIAL NOT SUITABLE OR REQUIRED FOR FILL AND BACK FILL. THE MATERIAL SHALL BE HAULED OFF SITE AND DISPOSED OF IN A LEGAL MANNER, NO SPECIAL PAY.
27. THE CONTRACTOR SHALL USE EXTREME "CAUTION" WHEN WORKING IN AREAS ADJACENT TO GAS LINES, UNDERGROUND ELECTRIC CABLE, FIBER OPTIC CABLE AND UNDERGROUND TELEPHONE CABLE. ANY UTILITY FOUND IN CONFLICT WITH PROPOSED NEW GRADING, OR UTILITY INFRASTRUCTURE, SHALL BE ADJUSTED, MOVED, OR RELOCATED TO FACILITATE NEW CONSTRUCTION.
28. ALL DITCHES WILL BE BACK FILLED AT THE END OF EACH DAY. NO TRENCHES WILL BE LEFT OPEN OVERNIGHT.
29. WHEN THE PROPOSED UTILITIES CONFLICT WITH AN EXISTING STRUCTURE (CULVERT, MAILBOX, ETC.), THE CONTRACTOR MAY BORE OR REPLACE SAID STRUCTURE AT NO EXTRA COST IF NOT CALLED FOR IN PLANS TO BE REPLACED.
30. ALL DITCHES WILL BE REGRADED AFTER THE CONSTRUCTION HAS BEEN COMPLETED. NO EXTRA PAYMENT WILL BE MADE FOR THIS. ALL DISTURBED AREAS SHALL BE HYDRO-MULCHED UPON COMPLETION OF GRADE WORK.
31. TxDOT APPROVAL MUST BE OBTAINED PRIOR TO CONSTRUCTION IN STATE HIGHWAY RIGHT-OF-WAY.
32. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS IN GRADES AND ALIGNMENT.
33. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING AND ADMINISTERING THE TRENCH SAFETY PLAN FOR THIS PROJECT PRIOR TO COMMENCING ANY UTILITY CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN THE TRENCH SAFETY PLAN AS PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED WITHIN THE STATE OF TEXAS. THE TRENCH SAFETY PLAN SHALL BE SPECIFIC TO THIS PROJECT, AND SUBMITTED TO THE ENGINEER AND APPROPRIATE CITY OFFICIAL WITHIN THE CITY IN WHICH THE WORK OCCURS. ALL EXCAVATION, TRENCHING, AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OSHA, AND ANY LOCAL, STATE OR FEDERAL REGULATIONS FOR SAFETY THAT ARE IN EFFECT. "CONST. SAFETY AND HEALTH REGULATIONS," VOL. 29, SUB PART P, PG. 128-137, AND ANY AMENDMENTS THERETO.
34. THE CONTRACTOR SHALL NOT SCALE THE PLANS.
35. STATE LAW REQUIRES THAT DIG-TESS (1-800-344-8377) BE CONTACTED 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
36. CONTRACTOR SHALL VIDEO TAPE "ALL" AREAS ALONG THE PERIMETER OF ALL CONSTRUCTION AND AREAS TO BE USED FOR STAGING PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL PROVIDE THE OWNER & ENGINEER WITH A COPY OF THIS VIDEO ON DVD FOR THEIR RECORDS AT THE PRE-CONSTRUCTION MEETING. ITEMS DAMAGED BY CONSTRUCTION NOT INTENDED FOR DEMOLITION SHALL BE REPLACED TO "AS GOOD AS" OR "BETTER THAN" CONDITION PRIOR TO CONSTRUCTION.
37. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE, ALL COSTS ASSOCIATED WITH PROVIDING TEMPORARY DE-WATERING OF THE SITE UNTIL THE STORM DRAINAGE IMPROVEMENTS ARE COMPLETED. THE DRAINAGE SYSTEM & SITE SHALL REMAIN AS DRY AS POSSIBLE AT ALL TIMES DURING CONSTRUCTION. THE METHOD OF DE-WATERING SHALL BE SUFFICIENT ENOUGH AS TO PREVENT THE FORMATION OF MUCK, SLUDGE, ETC. IN THE LOW AREAS.
38. ALL AREAS GRADED SHALL BE "BLUE-TOPPED" ON A 25' GRID PRIOR TO FINAL GRADING TO INSURE COMPLIANCE WITH THE GRADING PLAN. NO LOW POINTS IN THE GRADING SHALL BE ACCEPTABLE WITH THE EXCEPTIONS OF INLETS. ALL GRADED AND OR DISTURBED AREAS OF THE SITE SHALL BE HYDRO-MULCHED WITH A SEED MIX OR SODDED AS SHOWN ON THE LANDSCAPE & DEMOLITION PLANS.
39. THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION AND ELEVATION. NO ADDITIONAL PAY.
40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT.
41. THE CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT PRIOR WRITTEN AGREEMENT WITH SAID OWNER.
42. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SIGNS, UTILITY POLES, SPRINKLER SYSTEMS, ETC. INCLUDING BUT NOT LIMITED TO, RELOCATION OF GUY WIRES, UTILITY POLES, ETC. AS REQUIRED DURING CONSTRUCTION. THIS WORK SHALL BE SUBSIDIARY TO THE BID PRICE.
43. ALL PAVEMENT CUTS SHALL BE NEAT SAW CUT LINES. ALL PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION.
44. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
45. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
46. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
48. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CIVIL ENGINEER A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.
49. CONTRACTOR SHALL CONTACT CITY BUILDING OFFICIAL TO LEARN OF ANY UNUSUAL CONSTRUCTION SEQUENCING REQUIREMENTS THAT THE CITY MAY REQUIRE. THE CONTRACTOR IS CAUTIONED THAT THIS AND PERHAPS OTHER SUCH REQUIREMENTS MAY EXIST AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH THEM.
50. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL FIELD CHANGES TO THE PLANS. THE PROJECT ENGINEER SHALL INCORPORATE THESE CHANGES INTO RECORD DRAWINGS AS REQUIRED.
51. THE CONTRACTOR SHALL PROVIDE AN "AS-BUILT" SURVEY OF THE SITE, OR ANY AREA THEREOF IF REQUESTED BY THE ENGINEER OR THE CITY OR FOR GRADE VERIFICATION. THE "AS-BUILT" SHALL PROVIDE ELEVATIONS WITH AN ACCURACY OF 0.01 WITH A MINIMUM SHOT GRID OF 25'. IT SHALL BE ON THE SAME COORDINATE PLANE AS THE ORIGINAL DRAWINGS. SHALL SHOW ALL PHYSICAL FEATURES AND UTILITIES BOTH ABOVE AND BELOW GRADE AND SHALL BE SIGNED AND SEALED BY A LICENSED SURVEYOR IN THE STATE OF TEXAS.
52. CONTRACTOR IS STRICTLY PROHIBITED FROM PLACING SPOILS FROM PIERS, GRADE BEAMS AND OTHER CUT MATERIALS BELOW 3' UNDER ANY PAVING/SIDEWALKS ADJACENT TO BUILDING OR BACKFILL FOR GRADE BEAMS.
53. ALL FENCING ADJACENT TO SIDEWALKS SHALL BE CONSTRUCTED INTEGRAL WITH SIDEWALK PAVING.
54. ALL EXISTING TREES TO REMAIN EITHER ADJACENT TO OR WITHIN THE LIMITS OF DEMOLITION SHALL HAVE TREE PROTECTION FENCING INSTALLED TO INCLUDE FULL CANOPY OF TREE.
55. ALL MOTORIZED GATES REQUIRING ELECTRICAL POWER TO OPERATE SHALL INCLUDE 2-6" DIA SCH40 PVC CONDUITS FROM BUILDING TO OPERATOR AND ALL POWER AS REQUIRED TO OPERATE GATE. POWER DESIGN SHALL BE PROVIDED BY THE CONTRACTOR AS DESIGN BUILD AND ROUTED TO THE CLOSEST CIRCUIT CAPABLE OF PROVIDING POWER TO OPERATE GATE PROPERLY. ALL MOTORIZED GATES SHALL INCLUDE CONDUIT, VIDEO AND VOICE COMMUNICATION LINES FROM THE BUILDING TO THE GATE KEY PAD AND CONTROLLERS AS DESIGN BUILD BY CONTRACTOR.

EROSION CONTROL NOTES:

26. EROSION CONTROL MEASURES SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) THAT IS KEPT ONSITE AT ALL TIMES WITH THESE CONSTRUCTION DOCUMENTS FOR COMPLIANCE WITH THE T.P.D.E.S. GENERAL PERMIT
27. IN ORDER TO MINIMIZE EROSION CONTROL PROBLEMS, GENERAL CONTRACTOR SHALL COORDINATE WITH EXCAVATOR, LANDSCAPE, AND IRRIGATION CONTRACTORS TO DETERMINE EARLIEST POSSIBLE DATE TO INSTALL GRASSING AS NOTED ON THE LANDSCAPE PLAN
28. THE STABILIZED CONSTRUCTION ENTRANCE HAS BEEN SHOWN ARBITRARILY. IT IS THE GENERAL CONTRACTOR'S CHOICE (IN COMPLIANCE WITH ALL CITY AND STATE REGULATIONS) TO DETERMINE THE LOCATION(S) OF PROJECT INGRESS / EGRESS POINTS. HOWEVER ALL ENTRANCES AT ALL TIMES SHALL BE PREPARED IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAILS AND CONTINUOUSLY MAINTAINED UNTIL FINAL PAVING IS ESTABLISHED. CHANGES TO THIS EROSION CONTROL PLAN ARE TO BE LOGGED IN THE SWPPP
29. STABILIZED SLOPES (CURLEX BLANKET AND 70% COVER OF VEGETATION) ACHIEVING EROSION-FREE CONDITIONS MUST BE IN PLACE AND EFFECTIVE BY THE PROJECT "POSSESSION DATE"
30. A TEMPORARY ALL-WEATHER SURFACE TO AND COMPLETELY AROUND THE BUILDING PAD SHALL BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH FIRE MARSHALL TO DETERMINE ANY VEHICULAR FIRE ACCESS REQUIRED DURING CONSTRUCTION
31. THE EROSION CONTROL PLAN WILL INCORPORATE EROSION CONTROL MEASURES AND TECHNIQUES TO PREVENT SEDIMENTATION AND ERODED SOIL FROM LEAVING THE SITE EITHER IN EXISTING STORM DRAIN SYSTEM OR ONTO ADJACENT PRIVATE AND PUBLIC PROPERTY. CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS SHOWN ON THE PLANS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENTATION. CONTRACTOR SHALL NOTIFY CONSULTING ENGINEER AT ONCE IF SITE CONDITIONS WARRANT ADDITIONAL EROSION CONTROL MEASURES. CONTRACTOR IS RESPONSIBLE FOR TAKING IMMEDIATE ACTION TO REMEDY EROSION CONTROL WHILE CONSULTING ENGINEER IS PREPARING RESPONSE
32. THE CONTRACTOR SHALL STABILIZE THE EARTHEN SLOPE AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN WITHIN 72 HOURS AFTER FINAL GRADE AND TOPSOIL HAS BEEN ESTABLISHED IN ACCORDANCE WITH THE PROJECT SITEWORK SPECS
33. PRIOR TO COMMENCING ANY CONSTRUCTION, A CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE SHALL BE INSTALLED AT THE LOCATION(S) SHOWN
34. AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED
35. AT THE COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS
36. SILT FENCE AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED
37. DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RESEEDED OR RESODDED, IF NECESSARY
38. ALL EROSION CONTROL MEASURES TO BE PLACED BASED ON CONTRACTOR'S BEST JUDGMENT AND CONSTRUCTION PHASING TO MINIMIZE SILT RUNOFF TO THE MAXIMUM EXTENT PRACTICABLE
39. TEMPORARY INLET PROTECTION TO BE REMOVED OR ADDED BASED ON EXISTING STORM SEWER REMOVAL AND/OR PROPOSED STORM SEWER CONSTRUCTION. FUNCTIONING INLETS SHALL BE INLET PROTECTED AT ALL TIMES. (USE PIPE INLET PROTECTION IF NEEDED)
40. SHOWN CONSTRUCTION ENTRANCES TO BE PLACED, MODIFIED ON THIS PLAN AND LOGGED IN THE SWPPP BASED ON CONSTRUCTION MANAGER'S ON-SITE DECISIONS TO CONTROL EROSION TO THE MAXIMUM EXTENT PRACTICABLE CONSTRUCTION ENTRANCES TO BE PLACED BASED ON CONSTRUCTION PHASING
41. CONTRACTOR SHALL DESIGN AND CONSTRUCT THE WASH-OUT PIT AND CONTAINMENT BASIN IN ACCORDANCE WITH THE STORM WATER POLLUTION PLAN FOR THE PROJECT AND SUBMIT PROPOSED LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING ANY CONSTRUCTION

STORM SEWER GENERAL NOTES

1. ALL STORM SEWER LINES AND APPURTENANCES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THESE PLANS, THE RULES, REGULATIONS, POLICIES AND PROCEDURES OF THE CITY IN WHICH THE CONSTRUCTION OCCURS.
2. MANHOLE TOPS & CLEAN-OUTS SHALL BE SET TO THE GRADE ESTABLISHED BY THE SITE GRADING PLAN OR APPLICABLE PLAN-PROFILE SHEETS AND SHALL BE FLUSH WITH FINISHED GRADE.
3. OMNI-FLEX

WATER GENERAL NOTES

1. THE CONTRACTOR SHALL INSTALL WATER AND SEWER LINES SO AS TO AVOID CONFLICTS WITH OTHER UTILITIES. WATER/SEWER LINE SEPARATIONS SHALL BE MAINTAINED PER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.
2. HORIZONTAL BLOCKING HAS BEEN OMITTED FOR CLARITY. HOWEVER, BLOCKING SHALL BE CONSTRUCTED PER CITY STANDARDS, CONCRETE BLOCKING SHALL BE PLACED AT ALL VALVES, BENDS, TEES AND PLUGS.
3. ALL GATE VALVES FROM 1.5 INCH TO 18 INCHES SHALL BE OF THE RESILIENT SEAT TYPE.
4. THE UTILITY CONTRACTOR SHALL CONTACT THE CONSTRUCTION SERVICES MANAGER IN PUBLIC WORKS DEPARTMENT/INSPECTIONS PRIOR TO BEGINNING CONSTRUCTION ON ANY PRIVATE WATER LINES.
5. THE UTILITY CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT/INSPECTIONS, PRIOR TO INSTALLING THE DETECTOR CHECK.
6. APPROVED PERMANENT BLUE REFLECTIVE FIRE HYDRANT MARKERS SHALL BE PROVIDED ON THE PAVING ADJACENT TO EACH HYDRANT IN THE CENTER OF THE STREET OR FIRE LANE TO ASSIST FIREFIGHTERS WITH LOCATING ON-SITE FIRE HYDRANTS.
7. PROVIDE LICENSED FIRE SPRINKLER CONTRACTORS SHOP DRAWINGS AND HYDRAULIC CALCULATIONS FOR THE AUTOMATIC SPRINKLER SYSTEM FOR REVIEW AND APPROVAL BY THE FIRE DEPARTMENT AS SOON AS POSSIBLE AND PRIOR TO STARTING INSTALLATION.
8. THE FIRE DEPARTMENT CONNECTION FOR THE SPRINKLER SYSTEM IS A 4" STORZ CONNECTION AND SHALL BE WITHIN 50 FEET OF THE FIRE LANE AND WITHIN 150 FEET OF A FIRE HYDRANT, UNLESS OTHERWISE REQUIRED BY THE CITY.
9. ALL PROPOSED WATER AND SANITARY SEWER LINES ARE TO BE LOCATED AS SHOWN ON THE PLANS. ALL LINES LOCATED WITHIN AREAS OF PAVEMENT SHALL HAVE THE TOP 8" OF BACK FILL REPLACED WITH CRUSHED STONE INCLUDING SERVICES. (NO SEPARATE PAY)
10. ALL WATER MAIN CLEARANCE FOR PARALLEL SANITARY SEWER MAIN SHALL BE A MINIMUM SEPARATION OF 2 FEET VERTICAL AND 9 FEET HORIZONTAL.
11. SERVICE LOCATION TO BE STAMPED ON CURB WITH 2" HIGH LETTER "W"
12. UTILITY CONTRACTOR TO FURNISH AND INSTALL WATER METER BOXES AFTER THE PAVING CONTRACTOR HAS COMPLETED.
13. CORPORATION STOPS SHOULD BE TESTED FOR LEAKAGE AND FULL FLOW WHEN SYSTEM IS PRESSURE TESTED.
14. ANY CHANGES FROM APPROVED CONSTRUCTION PLANS SHALL BE APPROVED BY THE WATER UTILITY DEPARTMENT AND A CHANGE ORDER MUST BE OBTAINED FROM THE DESIGN ENGINEER. ANY DERIVATIONS FROM THE STATE REGULATIONS SHALL BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
15. SERVICE LINE PAY ITEMS WILL INCLUDE TAPPING OF WATER MAIN AND NECESSARY SERVICE LINE AND FITTINGS AS PER STANDARD DETAIL.
16. THE BID ITEM FOR REMOVAL AND THE SALVAGING OF FIRE HYDRANTS WILL INCLUDE REMOVAL IN A WORKMANLIKE MANNER SO THAT THE FIRE HYDRANT MAY BE REINSTALLED ELSEWHERE IN THE CITY OR ON SITE. THE REMOVAL WILL INCLUDE PLUGGING THE EXISTING WATER LINE, TRANSPORTING THE FIRE HYDRANT WITH ALL APPURTENANCES, IF APPLICABLE, TO THE LOCATION DETERMINED BY THE PROJECT OWNER OR AUTHORIZED PROJECT OWNER'S REPRESENTATIVE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISINFECTION, CHLORINATION AND FLUSHING REQUIREMENTS OF THE CITY. THIS SHALL INCLUDE PROVIDING TEMPORARY ISOLATION VALVES, PLUGS, INJECTION PORTS, FLUSHING VALVES, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE TASK.
18. ALL PVC PIPE AND APPURTENANCES (FITTINGS,VALVES, NIPPLES, ETC.) 3" DIA. AND SMALLER SHALL BE CONSTRUCTED AS SHOWN. (NO SEPARATE PAY)
19. CONTRACTOR SHALL 'LOCATE' PRESERVE AND PROTECT EXISTING WATER SERVICES. ANY WATER SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED ENTIRELY FROM THE WATER METER TO THE MAIN LINE AT THE CONTRACTOR'S EXPENSE. NO SPLICING IS ALLOWED.
20. CONTRACTOR SHALL FIELD LOCATE EXISTING WATER LINES TO BE CONNECTED TO PRIOR TO COMMENCING WORK. IF A DISCREPANCY EXISTS BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. SUCH VERIFICATION SHALL BE CONSIDERED SUBSIDIARY TO THE BID PRICE WITH NO SPECIAL PAY.
21. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THESE PLANS, THE RULES, REGULATIONS, POLICIES, AND PROCEDURES OF THE CITY IN WHICH THE CONSTRUCTION OCCURS.
22. ALL RPZ TYPE BACKFLOW PREVENTERS SHALL BE INSTALLED IN A FREEZE-PROOF ENCLOSURE WITH HEATER AND THERMOSTAT. CONTRACTOR SHALL ENSURE THAT ELECTRICITY IS PROVIDED FOR THE HEATER IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES.
23. ALL WATER SERVICES SHALL BE RECONNECTED TO THE MAIN AND SHALL BE CONSIDERED SUBSIDIARY TO THE BID PRICE.
24. ALL ABOVE GROUND RPZ'S THAT ARE EXTERIOR TO THE BUILDING SHALL HAVE AN ENCLOSED INSULATED AND HEATED BOX PROVIDED. POWER SHALL BE PROVIDE AS DESIGN BUILD TO THE CLOSEST CIRCUIT CAPABLE OF POWER REQUIREMENTS.
25. ALL SERVICE TAPS TO MAINS SHALL INCLUDE FULL DEPTH, SAWCUT, REMOVAL OF EXISTING PAVEMENT AND REPLACEMENT OF PAVEMENT FULL PANEL AND AS REQUIRED BY GOVERNING ENTITY.
26. ALL SERVICE TAPS SHALL BE INSTALLED AS REQUIRED BY GOVERNING ENTITY
27. ALL FIRE HYDRANT ASSEMBLIES SHALL INCLUDE A FIRE HYDRANT, 6" DR-14, C-900 PVC WATER PIPE, TEE AND RESILIENT SEAT GATE VALVE AND VALVE BOX.
28. ALL WATER LINES SHALL BE PVC PIPE CONFORMING TO AWWA STANDARD C900 DR-14 MINIMUM, WITH NSF SEAL UNLESS STATED DIFFERENTLY ON CONSTRUCTION PLANS, PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE NCTCOG STD. SPECS. WATER MAINS TO HAVE A MINIMUM OF 42" COVER TO TOP OF PIPE AS MEASURED FROM THE TOP OF PIPE TO THE EXISTING GROUND OR PROPOSED FINISHED GRADE, WHICHEVER IS GREATER. SERVICE LINE CONNECTORS SHALL BE COMPRESSION-TYPE WITH STAINLESS STEEL TUBE LINERS.
29. FIRE HYDRANTS SHALL BE LOCATED OUTSIDE OF SIDEWALK.
30. ALL WATER LINES TO BE ENCASED IN SAND. BACK FILL SHALL BE SELECT MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY.
31. ALL WATER METERS INSTALLED UNDER THIS CONTRACT SHALL ADHERE TO TCEQ REGULATIONS. ALL METERS SHALL BE INSTALLED WITH DOUBLE CHECK VALVES IN ACCORDANCE WITH TCEQ REGULATIONS.
32. FIRE HYDRANT ASSEMBLY BID ITEMS WILL INCLUDE THE FIRE HYDRANT, THE PIPE EXTENSION FROM THE TEE, AND ALL NECESSARY FITTINGS INCLUDING THE 6" GATE VALVE AND BOX. ALL VALVES AND FIRE HYDRANTS TO BE PER CITY SPECIFICATIONS. HYDRANTS TO BE PAINTED PER CITY STANDARD.
33. ANY WATER VALVES LOCATED WITHIN PAVEMENT AREAS SHALL BE ADJUSTED TO FINAL GRADE BY THE PAVING CONTRACTOR. THE PAVING CONTRACTOR SHALL CONSTRUCT A TYPICAL CONCRETE BLOCK OUT PER DETAILS.
34. WATER LINES WILL BE INSTALLED AS SHOWN ON THE PLANS. HOWEVER, FILED ADJUSTMENTS APPROVED BY THE INSPECTOR OR ENGINEER MAY BE MADE TO LESSEN DAMAGE TO THE ROAD PAVEMENT OR WHEN OTHER UTILITY LOCATIONS, TREES, OR STRUCTURES WARRANT SUCH AN ADJUSTMENT.
35. ALL FITTINGS TO BE DUCTILE IRON MECHANICAL JOINT W/ MEGA LUGS. THE BID ITEM FOR D.I.M.J. FITTINGS WILL INCLUDE ALL NECESSARY BLOCKING.
36. VALVES, FIRE HYDRANTS, BENDS, AND ASSOCIATED APPURTENANCES SHALL BE INSTALLED WHERE DESIGNATED ON THESE PLANS. ANY DEVIATION FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE AND ENGINEER.

PAVING AND STRIPING GENERAL NOTES

1. NO SAND SHALL BE USED UNDER ANY PAVEMENT – NO EXCEPTIONS.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT DETAILING LOCATION AND LAYOUT OF CONSTRUCTION JOINTS, EXPANSION JOINTS AND SAW CUTS FOR ALL CONCRETE PAVING ON THE SITE. (DRIVES, SIDEWALKS, ETC.)
3. AN EXPANSION JOINT AS DETAILED, WITH A CONCRETE HEADER, SHALL BE CONSTRUCTED AT THE END OF EACH DAY'S CONCRETE PLACEMENT.
4. CONTRACTOR SHALL REPAIR ALL HONEYCOMBING PRIOR TO BACK FILL.
5. THE CONTRACTOR SHALL NOT STAND, PARK, DRIVE ON, OR IN ANY WAY DISTURB OR DAMAGE STEEL REINFORCING FOR SITE WORK. ALL REINFORCEMENT SHALL BE CHAIRED UP ACCORDING TO PLANS AND SPECIFICATIONS.
6. SUBGRADE SHALL BE MAINTAINED TO WITHIN THE SPECIFIED REQUIREMENTS OF MOISTURE AND DENSITY UNTIL PAVING IS PLACED. PRIOR TO PLACING PAVEMENT, THE CONTRACTOR SHALL RE-TEST THE AREAS SELECTED BY THE CONSTRUCTION MATERIALS TESTING LAB PERSONNEL AT THE CONTRACTORS OWN EXPENSE, OR IF REQUESTED BY THE OWNER, ARCHITECT OR ENGINEER, AND IF THE SUBGRADE HAS BEEN PLACED AND ACCEPTED FOR LONGER THAN TEN (10) DAYS AND NO PAVEMENT HAS BEEN CONSTRUCTED.
7. ALL SITE EXPANSION JOINTS SHALL BE CONSTRUCTED OF REDWOOD.
8. ALL SIDEWALKS, SEPARATE CURBS, FLUMES AND MOW STRIPS SHALL HAVE TOOLED JOINTS AT A MAXIMUM SPACING OF 5' CCEW AND EXPANSION JOINTS AT A MAXIMUM OF 30' CCEW. ALL JOINTS SHALL BE INSTALLED WITHIN 10 HOURS OF PLACEMENT.
9. ALL SITE PAVING SHALL HAVE SAW CUT JOINTS ON A MAXIMUM OF 12' CCEW AND EXPANSION JOINTS ON A MAXIMUM OF 90' CCEW. ALL JOINTS SHALL BE INSTALLED WITHIN 10 HOURS OF PLACEMENT.
10. WHERE REINFORCING IS NOT SPECIFICALLY DETAILED, REINFORCING FOR PAVING SHALL BE AT A MINIMUM, NO. 4 REBARS AT 12" O.C.E.W.
11. UNLESS SPECIFICALLY NOTED ON PLANS, ALL CONCRETE PAVING, SIDEWALKS, SLABS, AND MISCELLANEOUS UTILITY INFRASTRUCTURES SHALL BE AT A MINIMUM, 4,000 PSI PORTLAND CEMENT CONCRETE AT 28 DAYS.
12. THE CONTRACTOR SHALL BACK FILL ALL CURBS WITHIN 48 TO 72 HOURS OF PLACEMENT.
13. STREET CUT PERMIT (ISSUED BY PUBLIC WORKS DEPARTMENT) IS REQUIRED BEFORE CUTTING IN ANY CITY STREET.
14. ALL EXISTING DRIVEWAYS SHALL BE CONNECTED TO THE PROPOSED PAVEMENT AS DETAILED.
15. THE SIDEWALKS AND/OR PEDESTRIAN ROUTES, AS SHOWN ON THESE PLANS, SHALL BE CONSTRUCTED TO COMPLY WITH ALL ADA REQUIREMENTS. BARRIER FREE RAMPS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS. ALL RAMPS LONGER THAN 6' LONG SHALL INCLUDE HANDRAILS WITH EDGE PROTECTION AS REQUIRED BY TDLR.
16. ALL TALL CURBS OR RETAINING WALLS WITH AN ELEVATION CHANGE OF 30" OR GREATER SHALL BE CONSTRUCTED WITH GUARDRAILS PER TDLR AND OSHA REQUIREMENTS. CONTRACTOR TO PROVIDE SUBSIDIARY TO BID PRICE..
17. ALL STAIRS SHALL HAVE HANDRAILS AS REQUIRED BY TDLR.
18. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS.
19. ALL CONSTRUCTION JOINTS SHALL BE SAWED, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH SILICONE JOINT SEALING COMPOUND.
20. ALL SIDEWALKS SHALL HAVE TOOLED JOINTS AT MAX 5' SPACING.
21. FOR ALL PAVING AND SIDEWALKS: IN AREAS WHERE SUBGRADE IS NOT SPECIFIED ON PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL 12" THICK FLEXIBLE BASE, TxDOT ITEM 247, GRADE 'A', TYPE 1, COMPACTED TO A MINIMUM 95% ASTM D-698 STD PROCTOR DENSITY.
22. EXPANSION JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM OF 90' CENTERS AND SHALL BE LOCATED AT ALL STRUCTURES, INTERSECTION POINTS, POINTS OF CURVATURE, POINTS OF TANGENCY, AND AT ALL REDUCTIONS IN PAVEMENT WIDTHS.
23. CONTRACTOR SHALL FILL IN ALL HOLES, OPENINGS, AND TRENCH REPAIR LEFT CONCRETE STRUCTURES PAVEMENT FOR PASSAGE OF WORK BY OTHER TRADES NOT SPECIFIED ON THE PLANS. AFTER WORK OF OTHER TRADES IS COMPLETED, MIX, PLACE, AND CURE CONCRETE HEREIN SPECIFIED, TO BLEND WITH IN-PLACE CONSTRUCTION. PROVIDE OTHER MISCELLANEOUS CONCRETE FILLING SHOWN OR REQUIRED AS INTERPRETED BY THE ENGINEER OR ARCHITECT TO COMPLETE THE WORK. COMPLETED WORK SHALL RESULT IN FULLY FUNCTIONAL PROJECT WITH NO HOLES, OPENINGS, OR GAPS IN PAVING/STRUCTURES.
24. ALL PAVING IN DRIVE-ABLE AREAS THAT DO NOT HAVE CURB AND GUTTER SHALL BE CONSTRUCTED WITH THICKENED EDGE AS DETAILED.
25. ALL PAVING WITHOUT CURBS ALONG THE PERIMETER OF THE PAVING SHALL BE INSTALLED WITH A THICKENED EDGE, MINIMUM OF 12" THICK.
26. ALL MOTORIZED GATES REQUIRING ELECTRICAL POWER TO OPERATE SHALL INCLUDE CONDUITS AND POWER AS REQUIRED TO OPERATE GATE. POWER DESIGN SHALL BE PROVIDED BY THE CONTRACTOR AS DESIGN BUILD AND ROUTED TO THE CLOSEST CIRCUIT CAPABLE OF PROVIDING POWER TO OPERATE GATE PROPERLY. ALL MOTORIZED GATES SHALL INCLUDE CONDUIT, VIDEO AND VOICE COMMUNICATION LINES FROM THE BUILDING TO THE GATE KEY PAD AND CONTROLLERS AS DESIGN BUILD BY CONTRACTOR.
27. ALL CALL OUTS ON THE GRADING PLAN THAT INDICATE EITHER TW OR BW SHALL INDICATE A NEW RETAINING WALL TO BE CONSTRUCTED WITH GUARDRAILS. IF NO DETAILS ARE PROVIDED IN PLANS, CONTRACTOR SHALL PROVIDE A DESIGN BUILD FOR THE RETAINING WALL TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER WITHIN THE STATE OF TEXAS. DESIGN BASIS OF THE RETAINING WALL SHALL BE A MINIMUM OF 4,000PSI CONCRETE AND SHALL INCLUDE A 6" DIA PERFORATED FRENCH DRAINAGE TO BE TIED TO THE CLOSEST STORM SEWER WITHIN 100' OF THE WALL OR WEEPS THROUGH THE FACE OF WALL IF STORM SEWER IS NOT AVAILABLE WITHIN 100' OR UNAVAILABLE TO GRAVITY DRAIN TO.

GRADING AND EROSION CONTROL GENERAL NOTES

1. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOP SOIL AND VEGETATION.
2. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEEDED (OR SODDED), IRRIGATED, AND MAINTAINED UNTIL A PERMANENT STAND OF GRASS IS ACHIEVED WITH A MINIMUM OF 70% COVERAGE. UNLESS OTHERWISE NOTED, PRIVATE LAWN AREAS AND PARKWAYS IN FRONT OF PRIVATE LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLACED WITH BLOCK SOD SIMILAR TO EXISTING CONDITIONS.
3. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.
4. CONSTRUCTION ENTRANCE:
   - MINIMUM SIZE STONE: 3-INCHES DIAMETER
   - THICKNESS: NOT LESS THAN 8-INCHES
   - LENGTH: AS SHOWN ON PLAN AND IN DETAILS
   - WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS, OR A MINIMUM OF 25 FEET.
   - MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT-OF-WAY OR PARKING AREAS.
5. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
7. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
8. IF A GRADING PERMIT IS REQUIRED FROM THE CITY PRIOR TO STARTING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMIT AND PAYING ALL ASSOCIATED FEES.
9. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE EXISTING AND PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE ARE ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.
10. ALL CLEARING, GRADING, COMPACTION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
11. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. AND T.A.S.) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL ADA RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.
12. ALL AREAS OF THE SITE INCLUDING ANY OFF-SITE AREA THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES, SHALL RECEIVE AT A MINIMUM, HYDROMULCH AND 6" OF TOP-SOIL. REFER TO LANDSCAPE, DEMOLITION, GRADING, PAVING, DRAINAGE, WATER, SEWER, IRRIGATION AND SEDIMENT CONTROL PLANS TO DETERMINE ALL LIMITS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE SOD AS REQUIRED ELSEWHERE IN THE PLANS.
13. SUPPLY THE SEEDED AREAS WITH ADEQUATE MOISTURE (4" PENETRATION) AT TEN (10) DAY INTERVALS, IF NEEDED, FOR SEED GERMINATION AND PLANT GROWTH UNTIL ACCEPTANCE BY THE OWNER. WATER THE SEED IN A MANNER WHICH WILL PREVENT EROSION OF THE SOIL. FURNISH ALL WATER TO BE USED. REPAIR WASHOUTS AND OTHER BARE SOIL AREAS IN A SEEDED AREA EITHER BY RE-SEEDING, SPRIGGING, OR SPOT-SODDING, AND PERFORM MAINTENANCE AS NEEDED TO ESTABLISH GRASS IN THE AREA. CONTROL COMPETITIVE WEED GROWTH DURING THE ESTABLISHMENT PERIOD WITH HERBICIDES. CHEMICAL USAGE SHALL BE IN ACCORDANCE WITH THE CURRENT RECOMMENDATIONS OF THE TEXAS AGRICULTURAL EXPERIMENT STATION OR LOCAL SOIL CONSERVATION SERVICE FIELD OFFICE TECHNICAL GUIDES. STRICTLY ADHERE TO ALL FEDERAL, STATE, AND LOCAL LAWS GOVERNING HERBICIDES. WEED CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHETHER TOPSOIL IS FROM ON-SITE OR OFF-SITE SOURCES AND ALSO FOR SEEDED AREAS WHICH ARE SPECIFIED NOT TO RECEIVE TOPSOIL.
14. ANY AREAS WHICH ARE DISTURBED BY THE CONTRACTOR WHICH ARE NOT SHOWN ON THE DRAWINGS OR SPECIFIED TO REQUIRE DISTURBANCE INCLUDING ANY APPROVED AREAS NOT SHOWN ON THE DRAWINGS, SHALL BE CONSIDERED AS UNAUTHORIZED DISTURBED AREAS. ANY SUCH AREAS SHALL BE SEEDED AS SPECIFIED IN THIS SECTION AT THE CONTRACTOR'S EXPENSE AND NO SEPARATE PAY.

SPECIAL INSTRUCTIONS COVERING TESTING OF COMPACTION OF TRENCH BACK FILL

1. TRENCH BACK FILL COMPACTION SHALL BE TESTED AT THE MORE STRINGENT OF THE GEOTECHNCIAL REPORT OR AT THE RATE OF ONE (1) TEST PER 100 LINEAR FEET PER 12 INCH LIFT (LOOSE). TESTS SHALL BE STAGGERED SO THAT TESTS OF ADJACENT LIFTS ARE NOT DIRECTLY OVER TEST LOCATION OF PREVIOUS LIFT.
2. WHERE CONNECTING DISTANCE BETWEEN MANHOLES EXCEEDS 100 FEET, A MINIMUM OF TWO (2) TESTS PER LIFT, AS OUTLINED ABOVE, SHALL BE REQUIRED.
3. THE CONTRACTOR SHALL USE METHODS OF CONSTRUCTION THAT MEET OR EXCEED OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AND OTHER LOCAL, STATE, OR FEDERAL REGULATIONS FOR SAFETY THAT ARE IN EFFECT. THE CONTRACTOR SHALL HAVE A TRENCH SAFETY PLAN PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
4. TESTING LABORATORY SHALL MAKE ONE IN PLACE DENSITY TEST FOR EACH 5,000 SQ FT OF AREA PER LIFT (8" LOOSE LIFTS.) BUT IN NO CASE LESS THAN TWO TESTS, AND ONE TEST PER 100 LINEAR FEET OF BACKFILL AREA ADJACENT TO GRADE BEAMS, TO INSURE THAT THE SPECIFIED DENSITY IS OBTAINED. IF THE GEOTECHNICAL REPORT REQUIRES A MORE STRINGENT TESTING REGIMEN, THE GEOTECHNCIAL RECOMMENDATIONS SHALL BE FOLLOWED.

FIRE LANES AND FIRE LANE STRIPING

1. FIRE LANES SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FEET OR 26 FEET WHEN LOCATED WITHIN 35 FEET OF ANY STRUCTURE IN EXCESS OF 36 FEET IN HEIGHT, UNLESS OTHERWISE REQUIRED BY THE CITY. AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES IS REQUIRED, UNLESS OTHERWISE REQUIRED BY THE CITY.
2. WHERE RED STRIPE INTERSECTS WITH A CURB LINE, PAINT FACE AND TOP OF CURB RETURN.
3. PAINT 4 INCH HIGH LETTERING WITH A 1 INCH STROKE CENTERED ON RED STRIPE TO READ: "NO PARKING" – "FIRE LANE". THIS LETTERING SHALL BE PAINTED EVERY 20 FEET OR AS REQUIRED BY THE CITY, AS MEASURED FROM THE END OF ONE LETTERING GROUP TO THE BEGINNING OF THE NEXT GROUP, WITH A 1 FOOT SPACE BETWEEN "NO PARKING" AND "FIRE LANE". (NOTE: QUOTES ARE USED IN THIS DESCRIPTION FOR EMPHASIS ONLY AND ARE NOT TO BE PAINTED WITH THE LETTERING)

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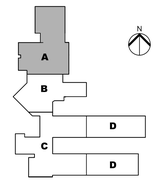
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

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SHEET TITLE
GENERAL NOTES 2

SHEET NO.
C1.03

NOTE:
CURB AND GUTTER SHALL BE CONSTRUCTED ON NORTH AND EAST SIDES OF NEW FIRE LANE AS SHOWN ON SITE PLAN UNTIL LOCATION MARKED BY CALLOUT. ALL OTHER EDGES OF FIRE LANE SHALL BE CONSTRUCTED AS THICKENED EDGE (SEE PAVING PLAN DETAIL)

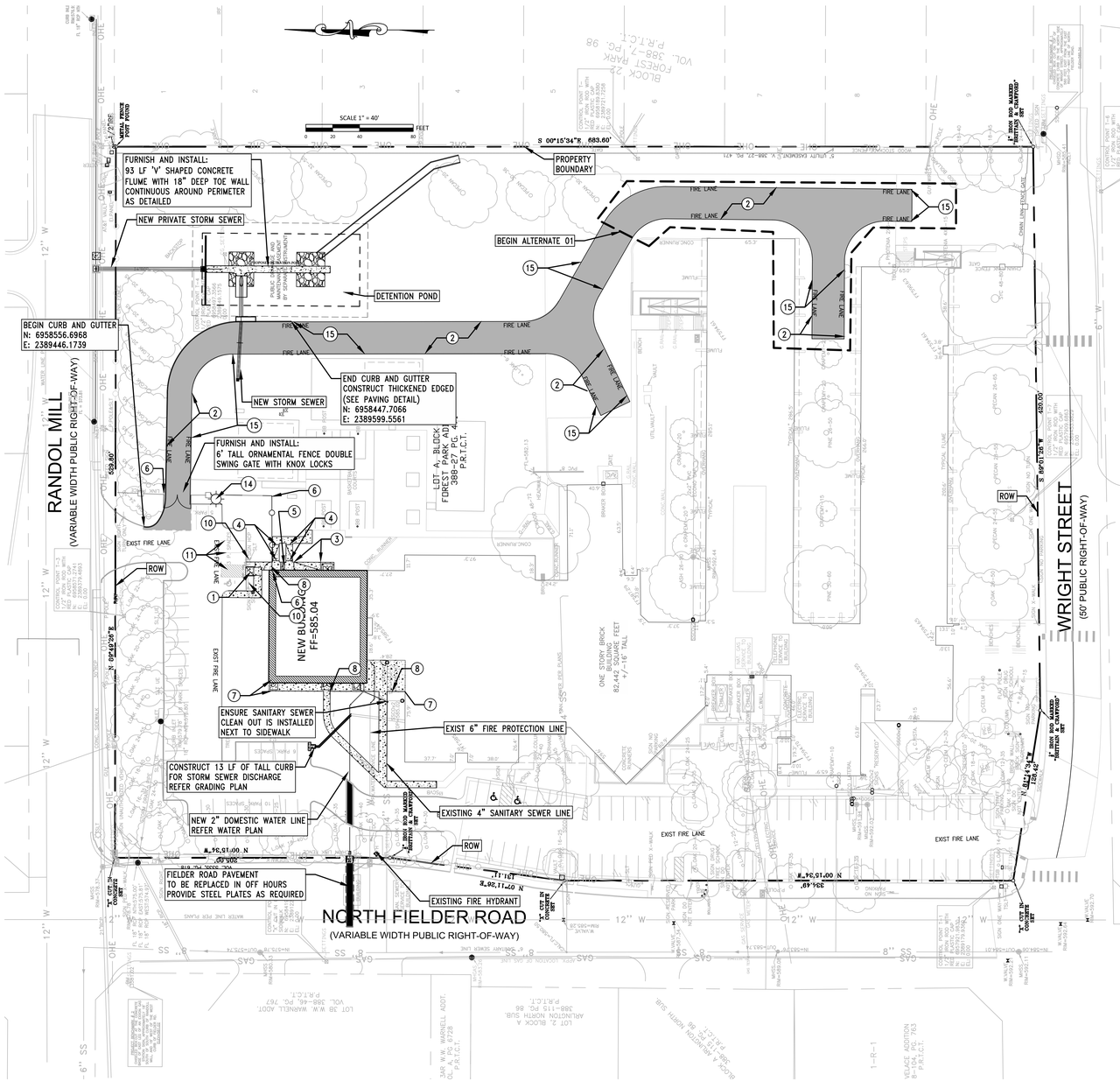
NOTE:
ALL BUILDINGS SHALL BE TESTED TO SEE IF FIRST RESPONDER RADIO COVERAGE IS NEEDED PRIOR TO OCCUPANCY AS PER IFC 2021 SECTION 501 UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL

FIRE LANE STRIPING:
FIRE APPARATUS ACCESS ROADS, OR FIRE LANES, SHALL BE MARKED BY PAINTED LINES OF RED TRAFFIC PAINT SIX INCHES (6") IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. THE WORDS "NO PARKING FIRE LANE" SHALL APPEAR IN FOUR INCH (4") WHITE LETTERS AT 25 FEET INTERVALS ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES. WHERE A CURB IS AVAILABLE, THE STRIPING SHALL BE ON THE VERTICAL FACE OF THE CURB.

NOTE:
ALL SITE AND BUILDING AREA TABULATIONS SHOWN ARE FOR OWNER AND GOVERNING AUTHORITY REFERENCES ONLY. CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN QUANTITY AND AREA CALCULATIONS

NOTE:
THE FIRE LANE IS DESIGNED TO SUPPORT THE IMPOSED LOAD OF 80,000 LB VEHICLE.

NOTE:
FIRE LANE ACCESS MUST BE COMPLETE AND IN-SERVICE PRIOR TO CONSTRUCTION PROGRESSING ABOVE THE FOUNDATION.



PAVING PLAN NOTES:
1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY.
2. ALL NEW CONCRETE INTERFACING WITH EXISTING CONCRETE SHALL BE CONSTRUCTED WITH A DOWELED EXPANSION JOINT AS DETAILED.
3. ALL SIDEWALKS, ACCESSIBLE PATHS AND PARKING SHALL CONFORM TO THE A.D.A. SPECIFICATIONS AS STATED IN THE TEXAS ACCESSIBILITY STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY COMPLIANCE.
4. CONTRACTOR SHALL PAINT AND STRIPE ALL PARKING AS SHOWN ON PLAN INCLUDING DRIVE LANES, FIRE LANES, TYPICAL SPACES AND A.D.A. SPACES.
5. CONTRACTOR SHALL COORDINATE SLEEVEING FOR ELECTRICAL WITH MEP PLANS.
6. WHERE REINFORCING AND SUBGRADE IS NOT SPECIFICALLY DETAILED, REINFORCING FOR PAVING SHALL BE AT A MINIMUM, NO. 4 REBARS AT 12" O.C.E.W. AND SUBGRADE SHALL BE 12" THICK FLEXBASE TXDOT ITEM 247, GR 1, TYPE A.
7. UNLESS SPECIFICALLY NOTED ON PLANS, ALL CONCRETE PAVING, SIDEWALKS, SLABS, AND MISCELLANEOUS UTILITY INFRASTRUCTURES SHALL BE AT A MINIMUM, 4,000 PSI PORTLAND CEMENT CONCRETE AT 28 DAYS.
8. ALL PAVING IN DRIVE-ABLE AREAS THAT DO NOT HAVE CURB AND GUTTER SHALL BE CONSTRUCTED WITH THICKENED EDGE AS DETAILED.
9. CONTRACTOR SHALL COORDINATE ALL SCORING AND EXPANSION JOINTS WITH THE ARCHITECT AND ENGINEER PRIOR TO ANY CONCRETE PLACEMENT FOR FLATWORK. CONTRACTOR SHALL PROVIDE A DETAILED JOINTING PLAN OF "ALL" SITE PAVING INCLUDING SPACING AND TYPE OF JOINT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE A MINIMUM OF FOUR (4) WEEKS PRIOR TO ANY CONCRETE PLACEMENT.
10. ALL PAVEMENT SHALL BE SAW-CUT ON MAX 12' CENTERS EACH WAY AND EXPANSION JOINTS AT MAX 90' CENTERS EACH WAY. ALL SIDEWALKS SHALL HAVE TOOL JOINTS AT MAX 5' CENTERS EACH WAY AND EXPANSION JOINTS AT MAX 30' EACH WAY.

FIRE LANE STRIPING:
FIRE APPARATUS ACCESS ROADS, OR FIRE LANES, SHALL BE MARKED BY PAINTED LINES OF RED TRAFFIC PAINT SIX INCHES (6") IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. THE WORDS "NO PARKING FIRE LANE" SHALL APPEAR IN FOUR INCH (4") WHITE LETTERS AT 25 FEET INTERVALS ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES. WHERE A CURB IS AVAILABLE, THE STRIPING SHALL BE ON THE VERTICAL FACE OF THE CURB.

GUARDRAIL NOTE/ORNAMENTAL FENCE:

CONTRACTOR SHALL CONSTRUCT 4' HIGH GUARDRAIL. THE DESIGN BASIS IS "AMERISTAR MONTAGE THREE RAIL MAJESTIC." FINISH SHALL BE SELECTED BY OWNERS AUTHORIZED REPRESENTATIVE. FENCE SHALL BE CONSTRUCTED PER AMERISTAR MANUFACTURER'S SPECIFICATIONS

FENCING NOTE:
ALL FENCING SHALL BE CONSTRUCTED WITH A MOW STRIP AS DETAILED

CONTRACTOR SHALL CONSTRUCT 4' HIGH ORNAMENTAL FENCE. THE DESIGN BASIS IS "AMERISTAR MONTAGE THREE RAIL MAJESTIC." FINISH SHALL BE SELECTED BY OWNERS AUTHORIZED REPRESENTATIVE. FENCE SHALL BE CONSTRUCTED PER AMERISTAR MANUFACTURER'S SPECIFICATIONS

CONCRETE MATERIALS NOTES:
1. ALL CONCRETE SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C 150, TYPE 1, DOMESTIC MANUFACTURE ONLY. CONTRACTOR SHALL USE ONLY ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.
2. CONTRACTOR SHALL USE AN AIR-ENTRAINING ADMIXTURE PER MANUFACTURER'S RECOMMENDATIONS, RESULTING IN CONCRETE AT THE POINT OF PLACEMENT HAVING AN AIR CONTENT OF 5% (±1%). AIR-ENTRAPMENT IS NOT ACCEPTABLE.
3. ALL CONCRETE SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50.
4. CONCRETE SLUMP AT THE POINT OF PLACEMENT SHALL NOT BE LESS THAN 3" AND NOT MORE THAN 5" AS DESCRIBED BY ASTM C 143.
5. FLY ASH AND CALCIUM CHLORIDE OR ADMIXTURE CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.
6. NO SAND SHALL BE USED UNDER ANY PAVEMENT – NO EXCEPTION.
7. EXPANSION JOINTS SHALL BE CONSTRUCTED ON MAXIMUM OF 90' CENTERS AND LOCATED AT ALL STRUCTURES, INTERSECTION POINTS, POINTS OF CURVATURE, POINTS OF TANGENCY, AND AT ALL REDUCTIONS OF PAVEMENT WIDTHS.

MISCELLANEOUS CONCRETE ITEMS:
CONTRACTOR SHALL FILL-IN ALL HOLES, OPENINGS AND TRENCH REPAIR LEFT IN CONCRETE STRUCTURES OR PAVEMENT FOR PASSAGE OF WORK BY OTHER TRADES NOT SPECIFIED ON THE PLANS, AFTER WORK OF OTHER TRADES IS COMPLETED. MIX, PLACE, AND CURE CONCRETE AS HEREIN SPECIFIED, TO BLEND WITH IN-PLACE CONSTRUCTION. PROVIDE OTHER MISCELLANEOUS CONCRETE FILLING SHOWN OR REQUIRED AS INTERPRETED BY THE ENGINEER OR ARCHITECT TO COMPLETE THE WORK. COMPLETED WORK SHALL RESULT IN A FULLY FUNCTIONAL PROJECT WITH NO HOLES, OPENINGS OR GAPS IN PAVING/STRUCTURES.

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

REFER TO DEMOLITION PLAN SHEET FOR SITE DISTURBANCE NOTES.

PAVING LEGEND

5" THICK, 3600 PSI PORTLAND CEMENT CONCRETE SIDEWALKS W/ #3 BARS AT 16" O.C.E.W.

9" THICK, 3600 PSI PORTLAND CEMENT CONCRETE WITH MONOLITHIC CURB AND GUTTER W/ #3 BARS AT 16" O.C.E.W.

SEE PAVING DETAILS FOR TYPICAL PAVING SECTIONS

NOTES BY SYMBOL

(1) CONSTRUCT NEW ADA RAMP AS DETAILED.
(2) PAINT STRIP FIRE LANE
(3) CONSTRUCT 19.5 LF OF ADA RAMP WITH HANDRAILS AS DETAILED
(4) CONSTRUCT 12 LF OF ADA RAMP WITH HANDRAILS AS DETAILED
(5) CONSTRUCT NEW STAIRS WITH HANDRAILS WITH 4 RISERS AND 12" TREADS EQUALLY SPACED AS DETAILED
(6) FURNISH & INSTALL 136 LF OF 6' TALL ORNAMENTAL FENCE AS DETAILED
(7) FURNISH & INSTALL 109 LF OF 6' TALL ORNAMENTAL FENCE AS DETAILED
(8) FURNISH & INSTALL 5' WIDE 6' TALL ORNAMENTAL FENCE GATE AS DETAILED
(9) FURNISH & INSTALL BARRIER FREE ADA RAMP WITH TRUNCATED DOMES PER CITY OF ARLINGTON STD DETAIL
(10) REPLACE ADA PARKING SIGN AS DETAILED
(11) RESTRIPE ADA PARKING STALLS AS DETAILED
(12) FURNISH & INSTALL 59 LF OF 6' TALL ORNAMENTAL FENCE AS DETAILED
(13) FURNISH & INSTALL 20 LF OF 6' TALL ORNAMENTAL FENCE AS DETAILED
(14) FURNISH & INSTALL LIGHTING FIXTURE AND POLE (REFER TO MEP)
(15) CONSTRUCT THICKENED EDGE AS DETAILED

AMANDA NUMBER: 2026 006578 SP

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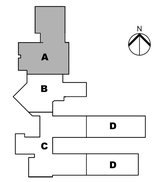
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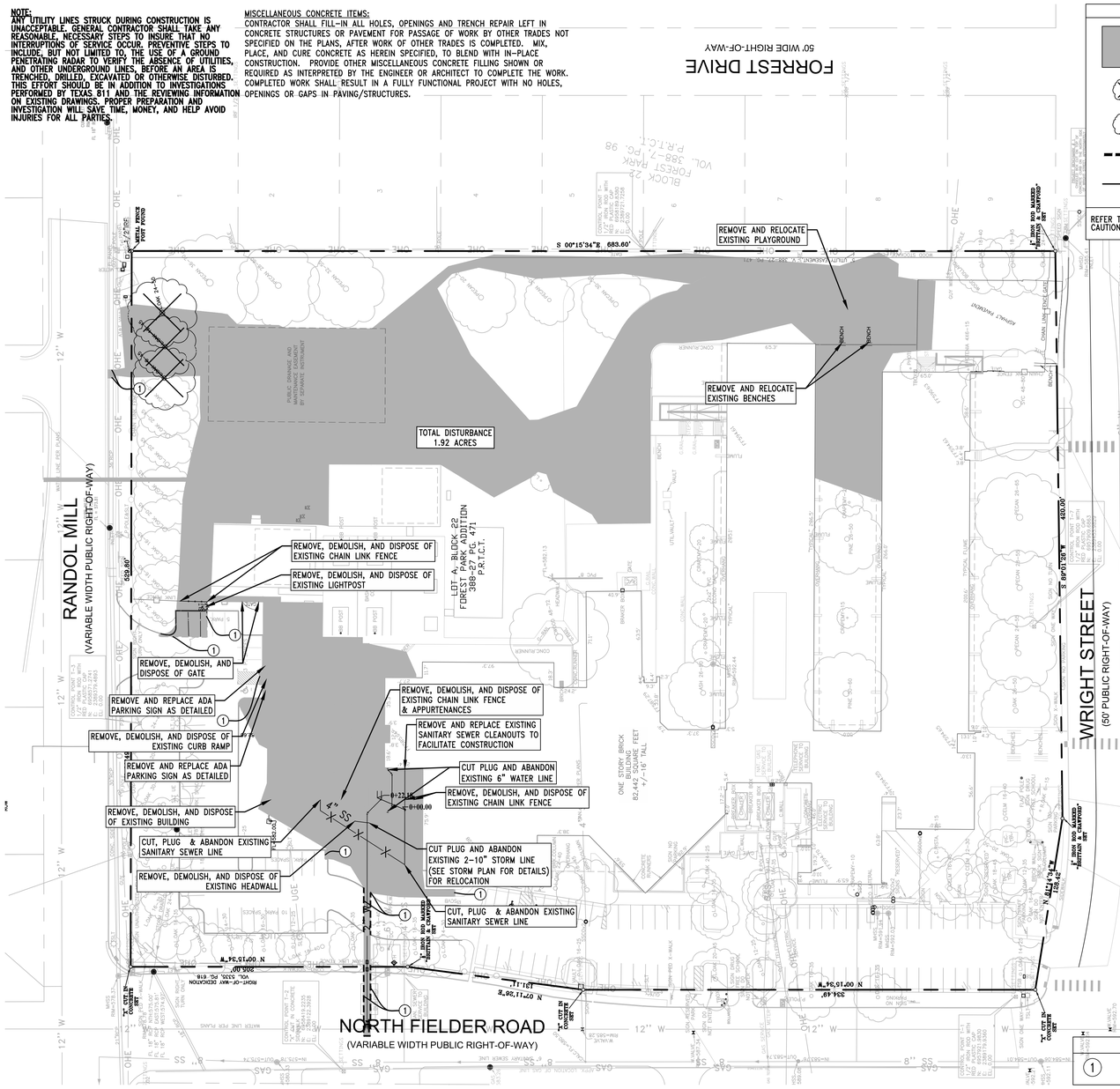
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SITE PLAN

SHEET NO.
C1.04

NOTE:
ANY UTILITY LINES STRUCK DURING CONSTRUCTION IS UNACCEPTABLE. GENERAL CONTRACTOR SHALL TAKE ANY REASONABLE, NECESSARY STEPS TO INSURE THAT NO INTERRUPTIONS OF SERVICE OCCUR. PREVENTIVE STEPS TO INCLUDE, BUT NOT LIMITED TO, THE USE OF A GROUND PENETRATING RADAR TO VERIFY THE ABSENCE OF UTILITIES, AND OTHER UNDERGROUND LINES, BEFORE AN AREA IS TRENCHED, DRILLED, EXCAVATED OR OTHERWISE DISTURBED. THIS EFFORT SHOULD BE IN ADDITION TO INVESTIGATIONS PERFORMED BY TEXAS 811 AND THE REVIEWING INFORMATION ON EXISTING DRAWINGS. PROPER PREPARATION AND INVESTIGATION WILL SAVE TIME, MONEY, AND HELP AVOID INJURIES FOR ALL PARTIES.

MISCELLANEOUS CONCRETE ITEMS:
CONTRACTOR SHALL FILL-IN ALL HOLES, OPENINGS AND TRENCH REPAIR LEFT IN CONCRETE STRUCTURES OR PAVEMENT FOR PASSAGE OF WORK BY OTHER TRADES NOT SPECIFIED ON THE PLANS, AFTER WORK OF OTHER TRADES IS COMPLETED. MIX, PLACE, AND CURE CONCRETE AS HEREIN SPECIFIED, TO BLEND WITH IN-PLACE CONSTRUCTION. PROVIDE OTHER MISCELLANEOUS CONCRETE FILLING SHOWN OR REQUIRED AS INTERPRETED BY THE ENGINEER OR ARCHITECT TO COMPLETE THE WORK. COMPLETED WORK SHALL RESULT IN A FULLY FUNCTIONAL PROJECT WITH NO HOLES, OPENINGS OR GAPS IN PAVING/STRUCTURES.



DEMOLITION LEGEND

- LIMITS OF DEMOLITION
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN PROVIDE TREE PROTECTION AS DETAILED
- CONSTRUCT FULL DEPTH SAW-CUT. REMOVE, DEMOLISH, AND DISPOSE OF EXISTING PAVEMENT.
- REMOVE, DEMOLISH, AND DISPOSE OF EXISTING UTILITY LINES AND PERTAINING APPURTENANCES.

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY.

DEMOLITION NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY.
2. UNCHARTED UTILITY LINES MAY BE LOCATED WITHIN THE AREA OF DEMOLITION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND IDENTIFYING ANY POTENTIAL CONFLICTS.
3. ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AS DIRECTED BY THE OWNER'S PROJECT REPRESENTATIVE. (NO SEPARATE PAY)
4. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO: TRENCH BACKFILL, SIDE SLOPES, FENCES, CULVERT PIPES, DRAINAGE DITCHES, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS. ALL AREAS DISTURBED BY CONSTRUCTION WILL BE HYDROMULCHED UNLESS OTHERWISE NOTED.
5. EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION AREA SHALL BE DEMOLISHED, REMOVED, DISPOSED OF, CLEARED AND GRUBBED AS SPECIFIED. ITEMS TO BE REMOVED, BUT NOT LIMITED TO ARE SPRINKLER SYSTEMS, PIERS, CONCRETE, ASPHALT, CURBS, LANDSCAPE TREES AND PLANTS, ETC.. SANITARY SEWER LINES, MANHOLES, CLEANOUTS, WATER VALVES, AND WATER SERVICES ARE TO REMAIN IN SERVICE AND ARE NOT TO BE REMOVED UNLESS NOTED OTHERWISE. ALL UTILITY SURFACE MOUNTS INCLUDING BUT NOT LIMITED TO WATER VALVES, SEWER MANHOLES, AND CLEANOUTS SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISH SURFACE AND SITE GRADING. ALL ASPHALT AND CONCRETE SHALL BE SAW CUT FULL DEPTH OF PAVEMENT PRIOR TO REMOVAL.
6. AT SITES WHERE DEMOLITION WILL OCCUR AT OR NEAR A PUBLIC STREET, THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION RENOVATION ACTIVITIES AS SOON AS POSSIBLE SO THAT EDGES OF THE PAVEMENT WILL NOT BE LEFT UNPROTECTED LONGER THAN NECESSARY.
7. THE CONTRACTOR SHALL COORDINATE DEMOLITION, REMOVAL AND OR RELOCATION OF ANY AND ALL TREES WITH THE OWNER'S AUTHORIZED PROJECT REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
8. EXISTING PAVING REMOVAL SHALL EXTEND TO THE NEAREST JOINT TO ENSURE NO IRREGULAR SHAPED PANELS.
9. ALL AREAS DISTURBED SHALL RECEIVE 6" OF TOP SOIL PER SPECIFICATIONS.

SITE DISTURBANCE NOTES:

1. ALL AREAS OF THE SITE INCLUDING ANY OFF-SITE AREA THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES, SHALL RECEIVE AT A MINIMUM, HYDROMULCH AND 6" OF TOP-SOIL. REFER TO LANDSCAPE, DEMOLITION, GRADING, PAVING, DRAINAGE, WATER, SEWER, IRRIGATION AND SEDIMENT CONTROL PLANS TO DETERMINE ALL LIMITS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE SOD AS REQUIRED ELSEWHERE IN THE PLANS.
2. SUPPLY THE SEEDED AREAS WITH ADEQUATE MOISTURE (6" PENETRATION) AT TEN (10) DAY INTERVALS, IF NEEDED, FOR SEED GERMINATION AND PLANT GROWTH UNTIL ACCEPTANCE BY THE OWNER. WATER THE SEED IN A MANNER WHICH WILL PREVENT EROSION OF THE SOIL. FURNISH ALL WATER TO BE USED. REPAIR WASHOUTS AND OTHER BARE SOIL AREAS IN A SEEDED AREA EITHER BY RE-SEEDING, SPRIGGING, OR SPOT-SODDING, AND PERFORM MAINTENANCE AS NEEDED TO ESTABLISH GRASS IN THE AREA. CONTROL COMPETITIVE WEED GROWTH DURING THE ESTABLISHMENT PERIOD WITH HERBICIDES. CHEMICAL USAGE SHALL BE IN ACCORDANCE WITH THE CURRENT RECOMMENDATIONS OF THE TEXAS AGRICULTURAL EXPERIMENT STATION OR LOCAL SOIL CONSERVATION SERVICE FIELD OFFICE TECHNICAL GUIDES. STRICTLY ADHERE TO ALL FEDERAL, STATE, AND LOCAL LAWS GOVERNING HERBICIDES. WEED CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHETHER TOPSOIL IS FROM ON-SITE OR OFF-SITE SOURCES AND ALSO FOR SEEDED AREAS WHICH ARE SPECIFIED NOT TO RECEIVE TOPSOIL.
3. ANY AREAS WHICH ARE DISTURBED BY THE CONTRACTOR WHICH ARE NOT SHOWN ON THE DRAWINGS OR SPECIFIED TO REQUIRE DISTURBANCE INCLUDING ANY APPROVED AREAS NOT SHOWN ON THE DRAWINGS, SHALL BE CONSIDERED AS UNAUTHORIZED DISTURBED AREAS. ANY SUCH AREAS SHALL BE SEEDED AS SPECIFIED IN THIS SECTION AT THE CONTRACTOR'S EXPENSE. (NO SEPARATE PAY)

GRASS SEEDING/SODDING NOTES:

1. APRIL 15 THRU JULY 15, HYDROMULCH BERMUDA SEED: 5 LBS./1000 S.F. OR SOLID SOD FOR DISTURBED AREAS SHOWN ON PLAN
2. JULY 16 THRU SEPT. 14, SOLID SOD
3. SEPT. 15 THRU APRIL 15, HAND SEED ANNUAL RYE (10 LBS./1000 S.F.)
4. BID SHOULD INCLUDE BOTH STEPS 1 & 3 IF BUILDING POSSESSION DATE OCCURS BETWEEN SEPT. 15 AND APRIL 15.
5. TIMING: UNDER NO CIRCUMSTANCES SHALL GRASSING OPERATIONS OCCUR IN PLANTING PERIODS OTHER THAN THE FOLLOWING:
6. APRIL 15 TO AUGUST 1 OF THE YEAR OF PROJECT SUBSTANTIAL COMPLETION; HOWEVER, IF HYDRO-MULCH OPERATIONS AND A FULL STAND OF GRASS CANNOT BE ACCOMPLISHED BY JULY 15 THEN THE CONTRACTOR SHALL INSTALL SOD. IF GRASSING OPERATIONS CANNOT BE ACCOMPLISHED DURING THESE PERIODS THE CONTRACTOR SHALL ESTABLISH AN INTERIM STAND OF WINTER RYE GRASS, THEN REMOVE THE RYE AND PROVIDE SPECIFIED GRASS DURING THE NEXT PERIOD IN THE FOLLOWING YEAR. SEE SPECIFICATIONS.
7. ALL UNSURFACED AREAS ARE TO RECEIVE SIX INCHES OF TOPSOIL, SEED, MULCH, AND WATERED UNTIL A HEALTHY STAND OF TURF IS OBTAINED.
8. PROVIDE TEMPORARY IRRIGATION AS NEEDED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED OR UNTIL PERMANENT IRRIGATION IS FUNCTIONAL.
9. A HEALTHY STAND OF GRASS (ie. NON-ERODABLE CONDITION) WILL BE ESTABLISHED PRIOR TO POSSESSION DATE OTHERWISE, CONTRACTOR WILL OBLIGATED TO INSTALL SOLID SOD PRIOR TO OPENING AT HIS EXPENSE.

NOTE:
CONTRACTOR SHALL VIDEO TAPE "ALL" AREAS ALONG THE PERIMETER OF ALL CONSTRUCTION INCLUDING AREAS TO BE USED FOR STAGING PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL PROVIDE THE OWNER & ENGINEER WITH A COPY OF THIS VIDEO ON DVD FOR THEIR RECORDS AT THE PRE-CONSTRUCTION MEETING. ITEMS DAMAGED BY CONSTRUCTION NOT INTENDED FOR DEMOLITION SHALL BE REPLACED TO "AS GOOD AS" OR "BETTER THAN" CONDITION PRIOR TO CONSTRUCTION.

NOTES BY SYMBOL

(1) CONSTRUCT FULL DEPTH SAW-CUT. REMOVE, DEMOLISH, AND DISPOSE OF EXISTING PAVEMENT.

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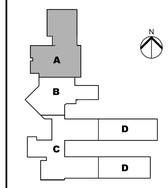
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026



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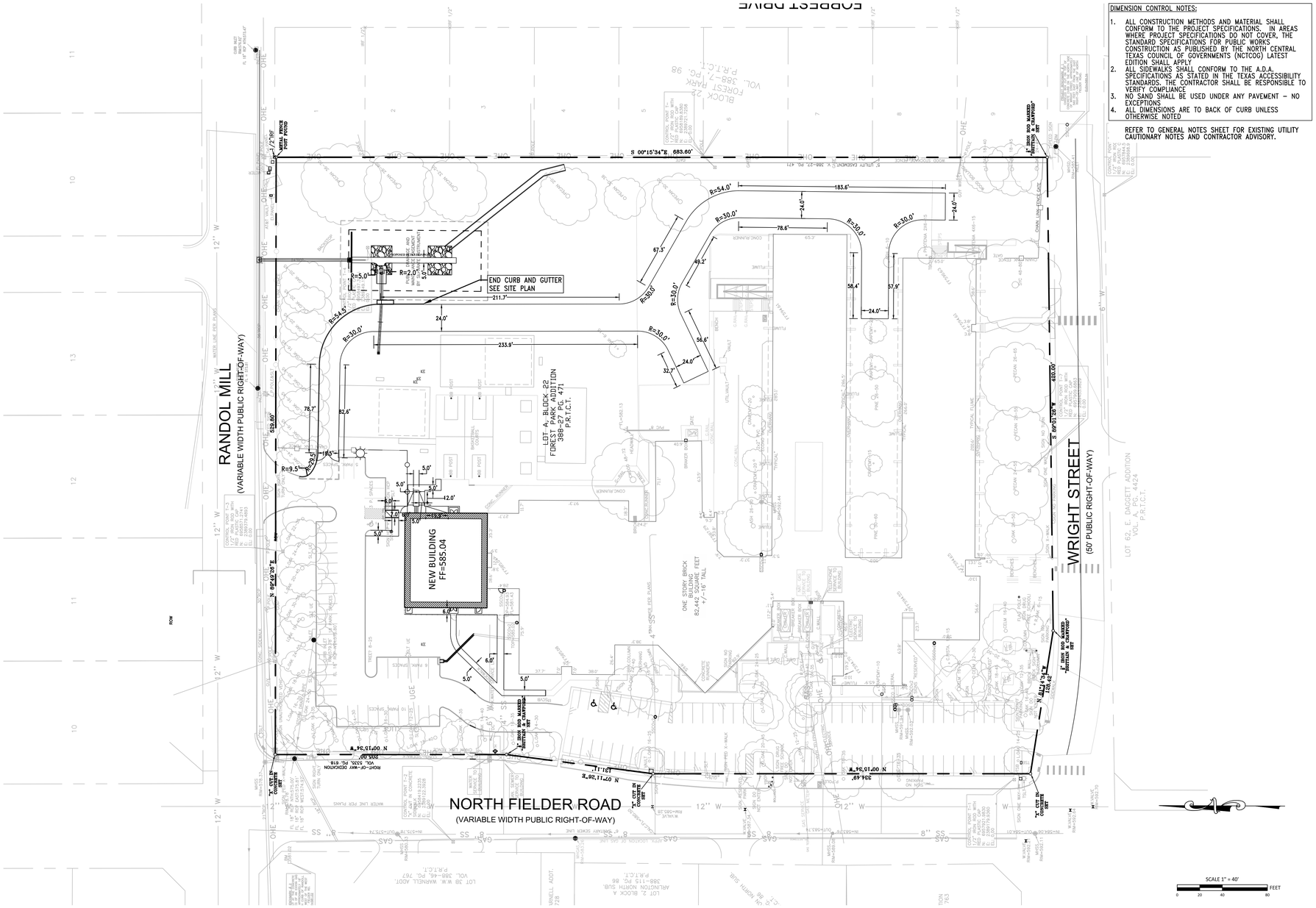
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SHEET TITLE
DEMOLITION PLAN

SHEET NO.
C1.05



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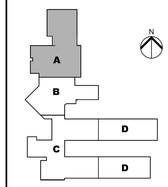
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WIMBISH
WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
MICHAEL A. THOMAS
93640
LICENSED PROFESSIONAL ENGINEER
04/22/2026



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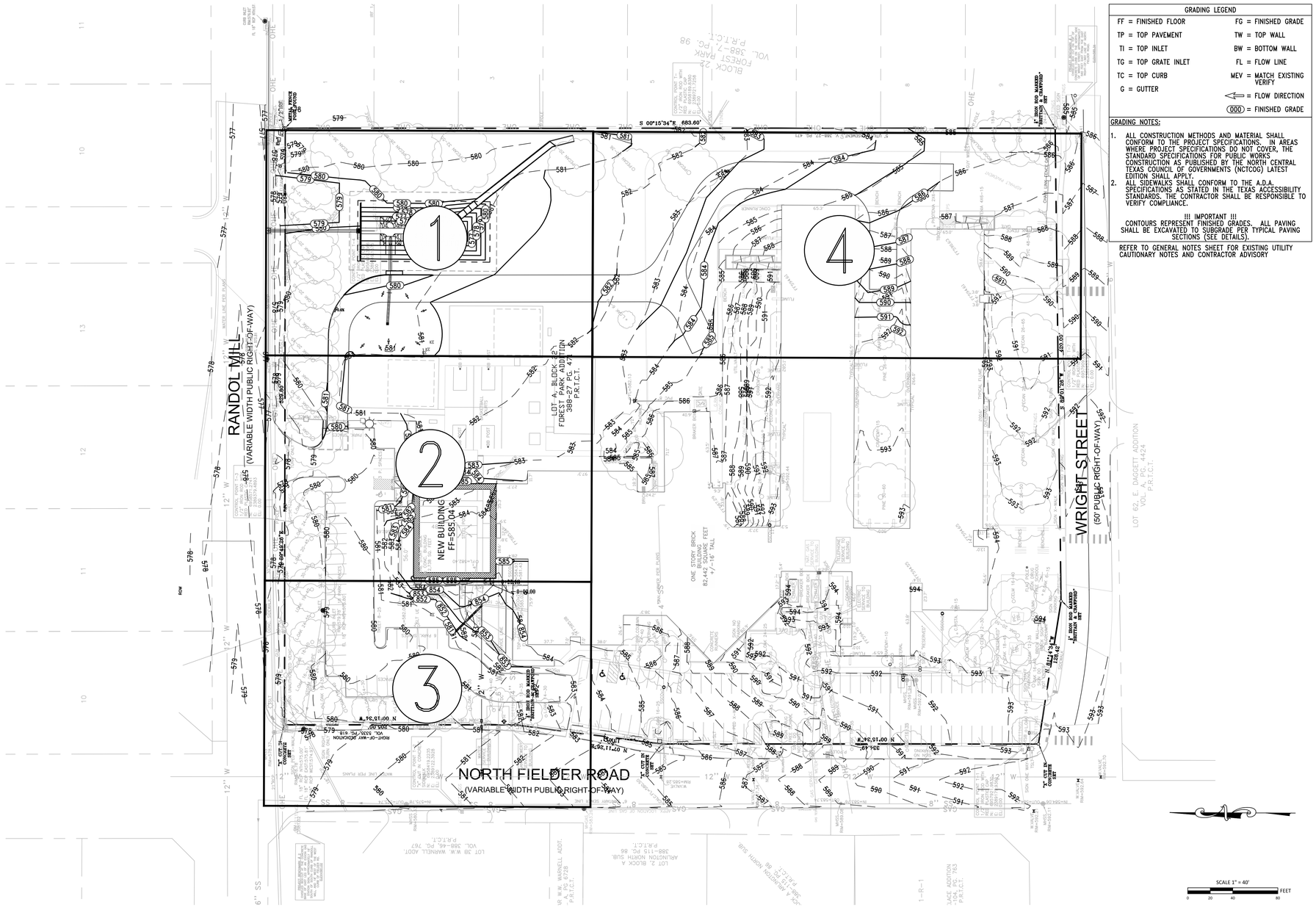
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ISSUE
BID SET

SHEET TITLE
DIMENSION CONTROL PLAN

SHEET NO.
C1.06



GRADING LEGEND	
FF = FINISHED FLOOR	FG = FINISHED GRADE
TP = TOP PAVEMENT	TW = TOP WALL
TI = TOP INLET	BW = BOTTOM WALL
TG = TOP GRATE INLET	FL = FLOW LINE
TC = TOP CURB	MEV = MATCH EXISTING VERIFY
G = GUTTER	⇦ = FLOW DIRECTION
	(000) = FINISHED GRADE

GRADING NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY.
2. ALL SIDEWALKS SHALL CONFORM TO THE A.D.A. SPECIFICATIONS AS STATED IN THE TEXAS ACCESSIBILITY STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY COMPLIANCE.

!!! IMPORTANT !!!

CONTOURS REPRESENT FINISHED GRADES. ALL PAVING SHALL BE EXCAVATED TO SUBGRADE PER TYPICAL PAVING SECTIONS (SEE DETAILS).

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT, SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
PHONE - (817) 732-9839
FAX - (817) 732-9841
MJT NO. - 921-002A

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PLOT DATE:
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EMPLATE VERSION: 23.0.4

HKS

ARCHITECT
HKS INC.
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

CIVIL
MJ THOMAS ENGINEERING LLC
4700 BRYANT IRVIN COURT, SUITE 204
FORT WORTH, TEXAS 76107
(817) 732-9839

LANDSCAPE
CCA LANDSCAPE ARCHITECTS
12700 HILLCREST ROAD, SUITE 149
DALLAS, TEXAS 75230
(214) 739-9105

MEP
SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

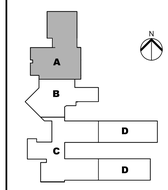
STRUCTURAL
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS
93640
LICENSED PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
OVERALL GRADING PLAN

SHEET NO.
C1.07

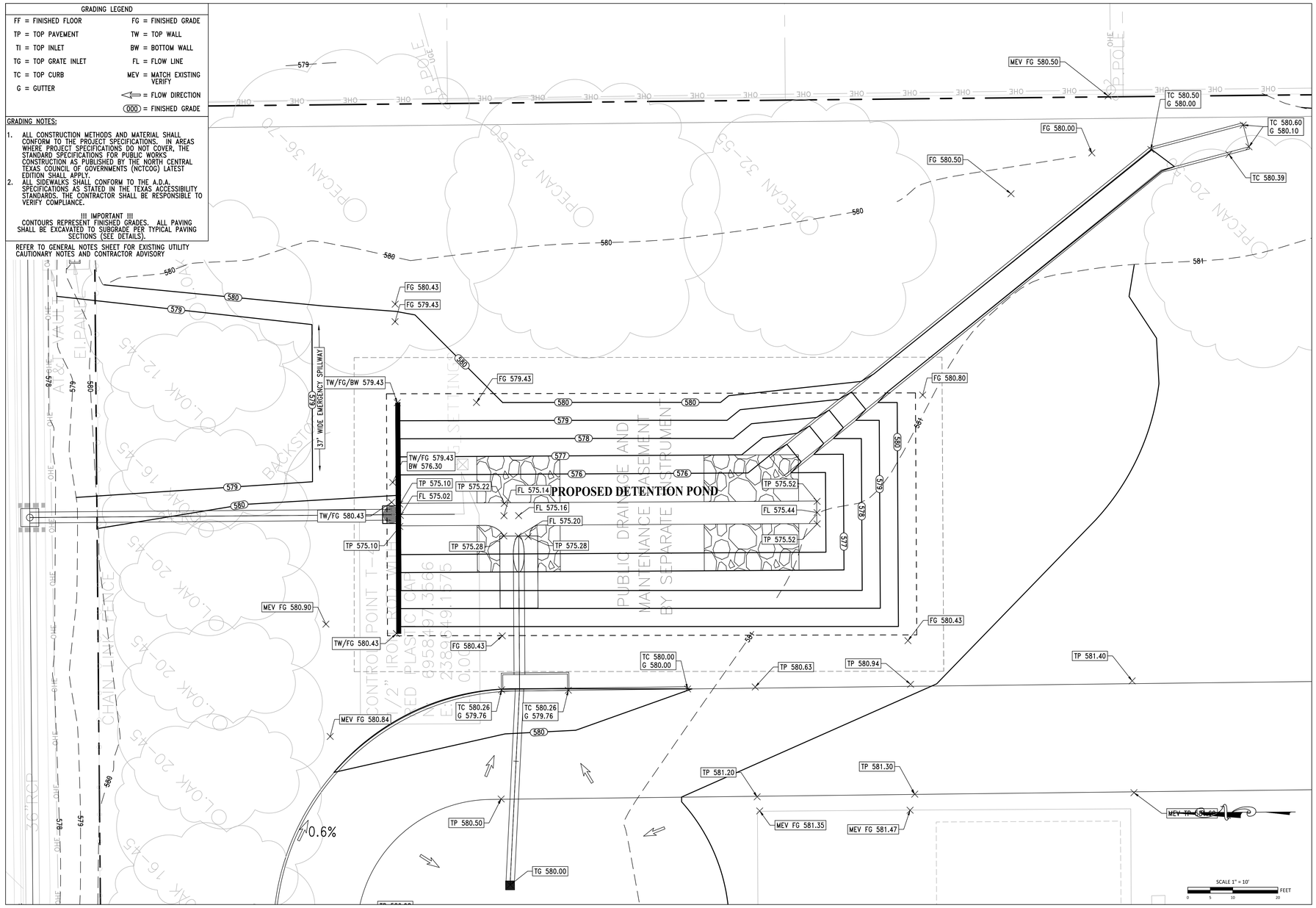
GRADING LEGEND	
FF = FINISHED FLOOR	FG = FINISHED GRADE
TP = TOP PAVEMENT	TW = TOP WALL
TI = TOP INLET	BW = BOTTOM WALL
TG = TOP GRATE INLET	FL = FLOW LINE
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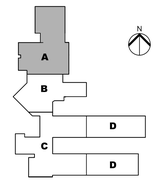
WIMBISH
WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
MICHAEL A. THOMAS
93640
LICENSED
PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

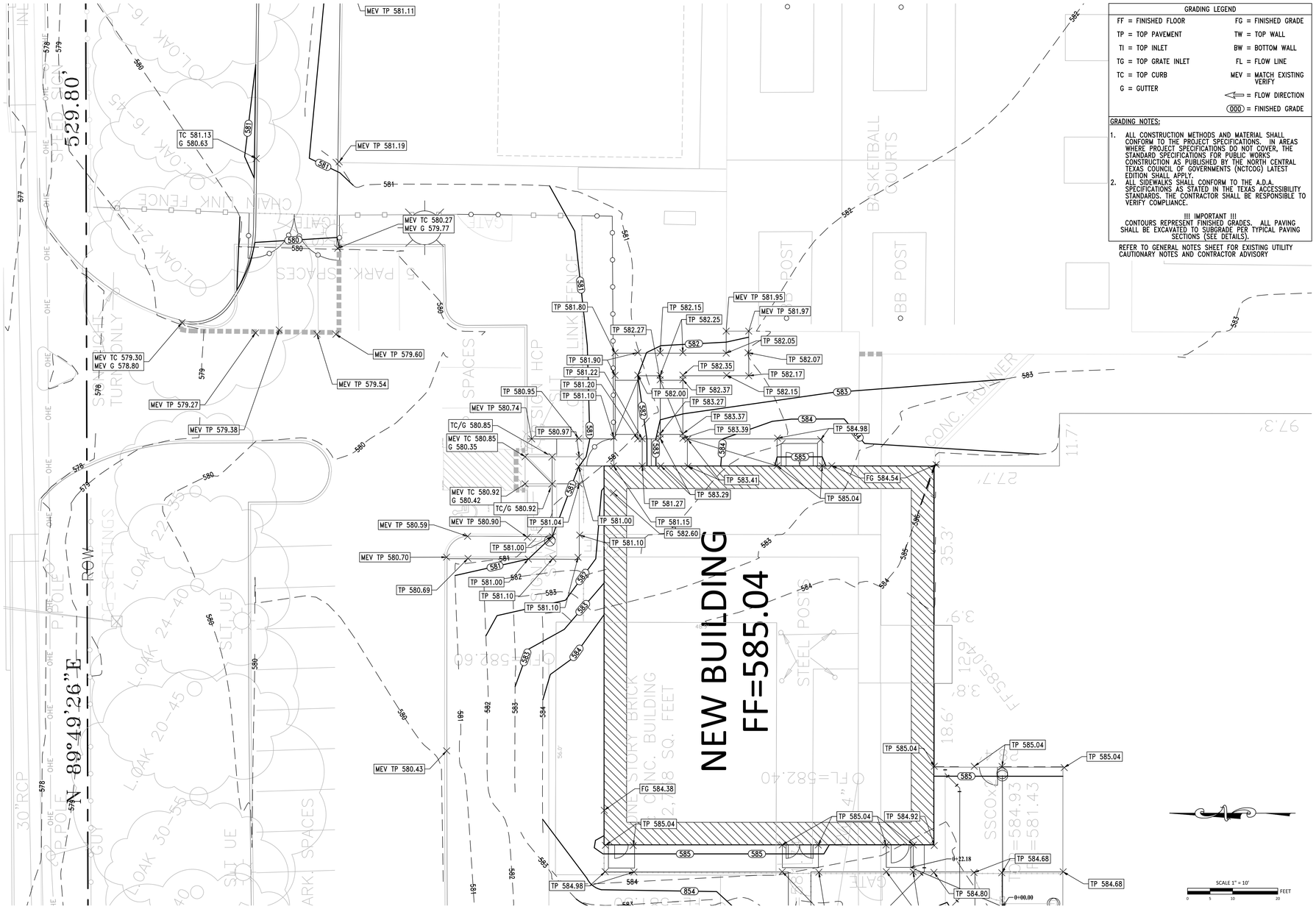
HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
GRADING PLAN 1

SHEET NO.
C1.08



HKS

ARCHITECT

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CIVIL

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STRUCTURAL

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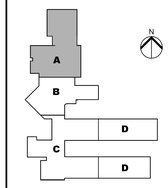
WIMBISH
WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
MICHAEL A. THOMAS
93640
LICENSED PROFESSIONAL ENGINEER
THOMAS

04/22/2026



KEY PLAN

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HKS PROJECT NUMBER
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DATE
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ISSUE
BID SET

SHEET TITLE
GRADING PLAN 2

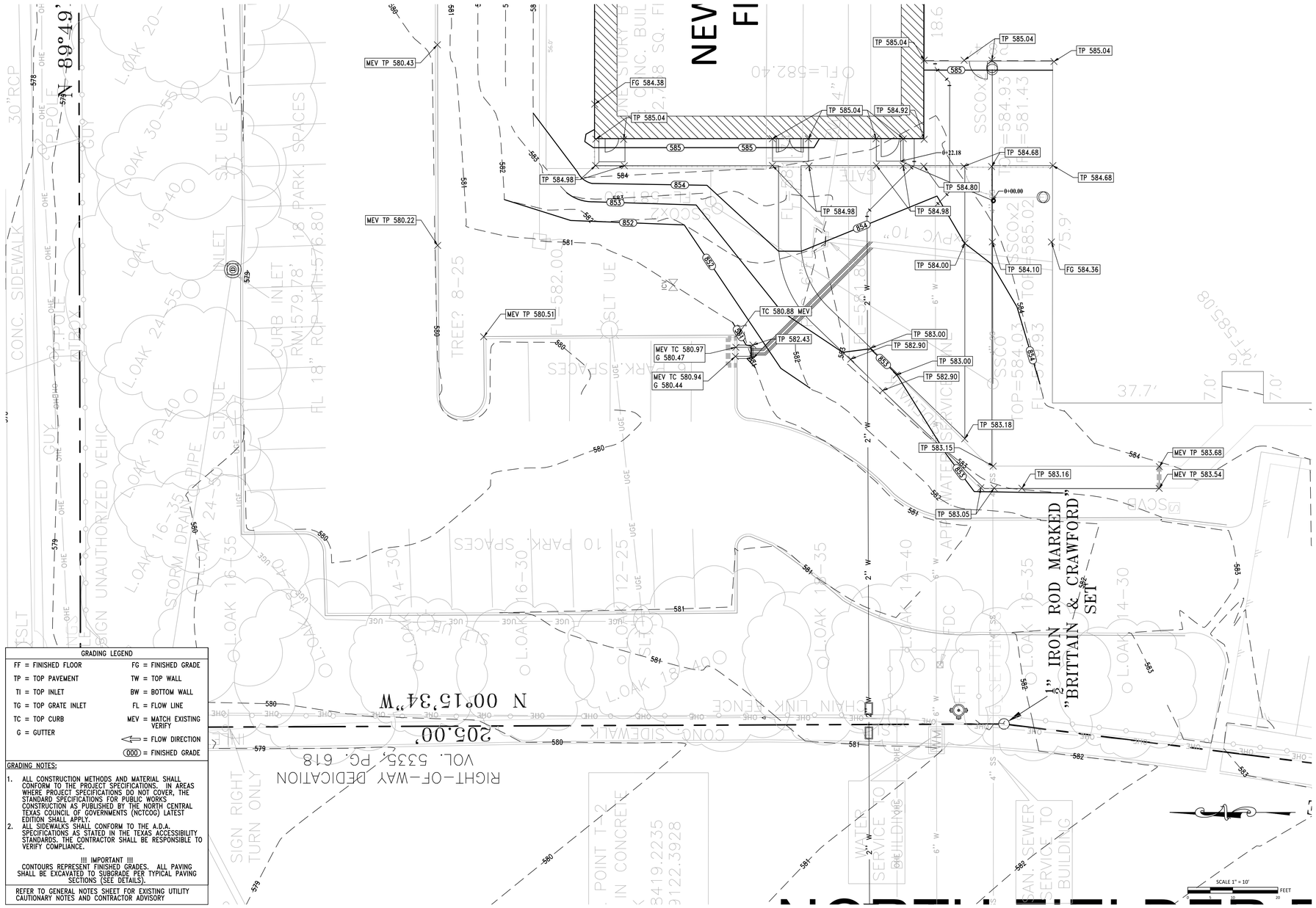
SHEET NO.
C1.09

AMANDA NUMBER: 2026 006578 SP

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MJT NO. - 921-002A

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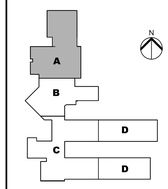
WIMBISH WORLD LANGUAGE ACADEMY

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SEAL & SIGNATURE

STATE OF TEXAS
MICHAEL A. THOMAS
93640
LICENSED
PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

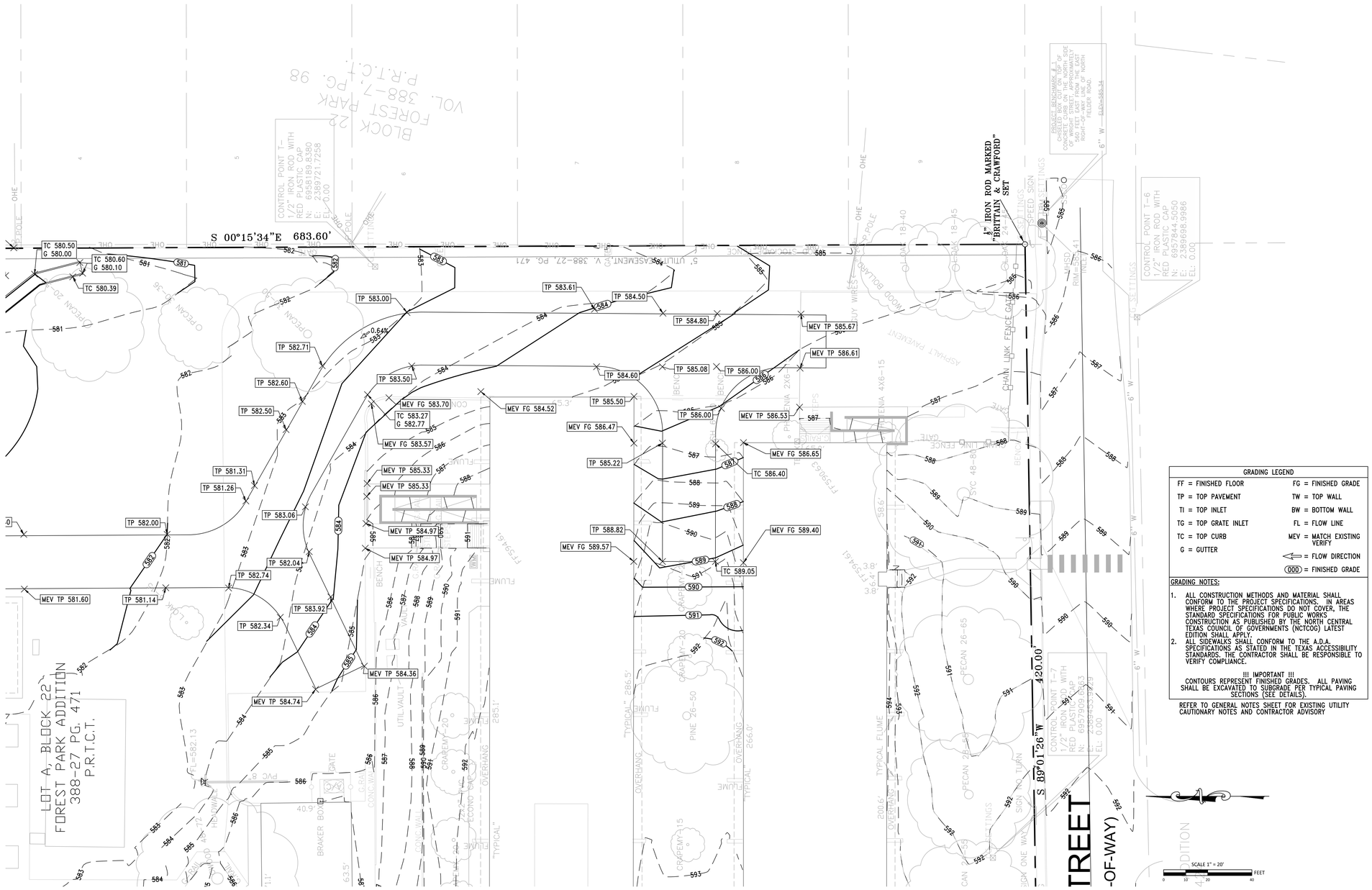
HKS PROJECT NUMBER
26399.005

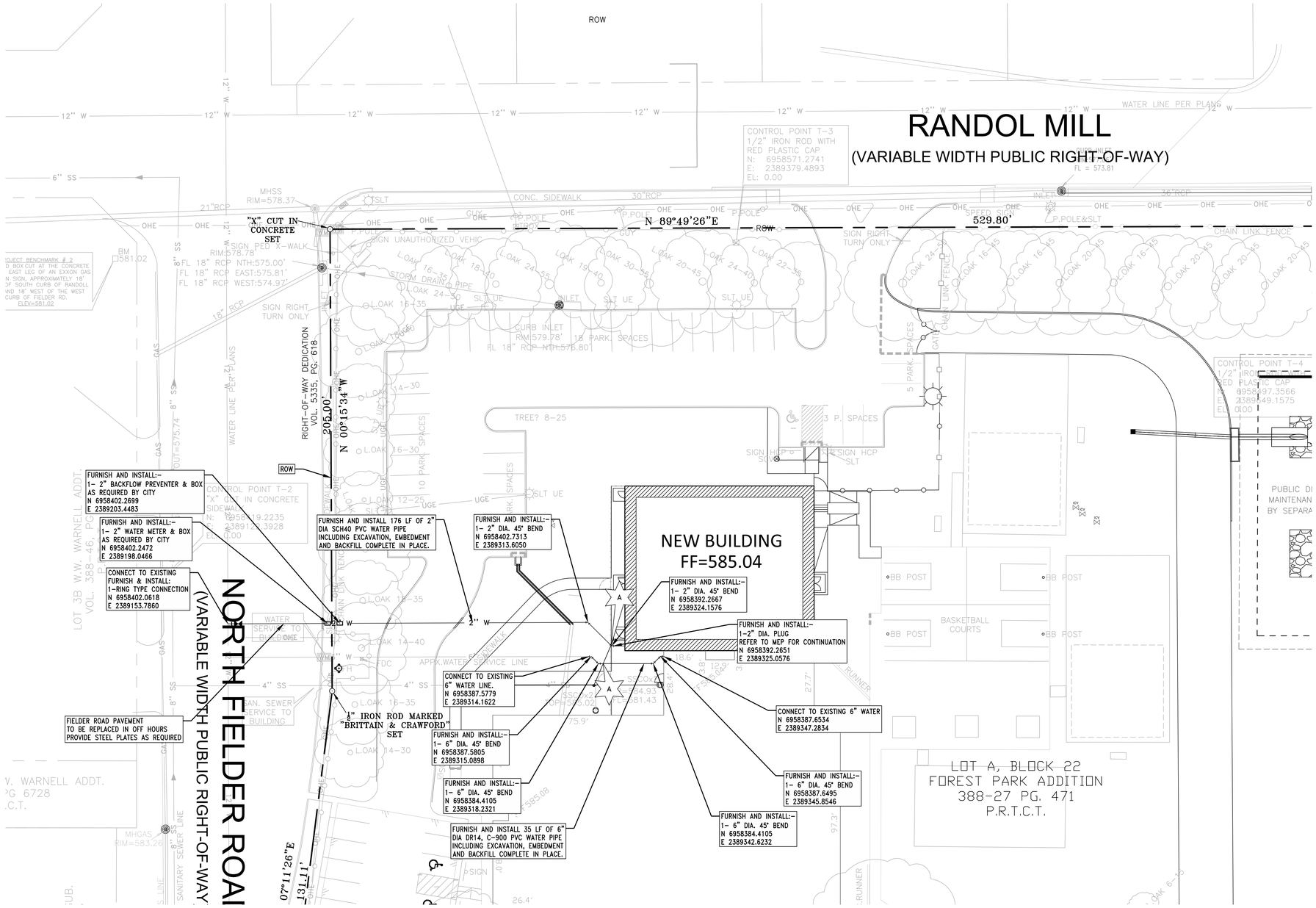
DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
GRADING PLAN 3

SHEET NO.
C1.10


S 00°15'34"E 683.60'
1/2" IRON ROD MARKED "BRITTAIN & CRAWFORD" SET
CONTROL POINT T-6
1/2" IRON ROD WITH
RED PLASTIC CAP
N: 6957844.5050
E: 2389698.9986
EL: 0.00
CONTROL POINT T-7
1/2" IRON ROD WITH
RED PLASTIC CAP
N: 6957909.6553
E: 2389955.9729
EL: 0.00
LOT A, BLOCK 22
FOREST PARK ADDITION
388-27 PG. 471
P.R.T.C.T.
S 89°01'26"W 420.00'
(60' R.O.W.)
TREET
-OF-WAY)
TC 580.50
G 580.00
TC 580.60
G 580.10
TC 580.39
TP 583.00
TP 583.61
TP 584.50
TP 584.80
MEV TP 585.67
MEV TP 586.61
TP 582.71
TP 582.60
TP 582.50
TP 583.50
TP 584.60
TP 585.08
TP 586.00
TP 585.50
MEV FG 583.70
TC 583.27
G 582.77
MEV FG 583.57
MEV FG 584.52
MEV FG 586.47
MEV TP 586.53
MEV FG 586.65
TC 586.40
TP 585.22
TP 581.31
TP 581.26
MEV TP 585.33
MEV TP 585.33
TP 583.06
TP 582.00
TP 582.04
TP 582.74
MEV TP 584.97
MEV TP 584.97
TP 588.82
MEV FG 589.57
MEV FG 589.40
TC 589.05
MEV TP 581.60
TP 581.14
TP 583.92
TP 582.34
MEV TP 584.36
MEV TP 584.74
0.64%
PECAN 20-35
PECAN 10-35
PECAN 18-45
PECAN 18-40
PECAN 26-65
PINE 26-50
CRAPEMYRTLE 20
CRAPEMYRTLE 15
CRAPEMYRTLE 30
BENCH
BRAKER BOX
GATE
CHAIN LINK FENCE
WOOD FENCE
ASPHALT PAVEMENT
CONCRETE PAVEMENT
UTIL. VAULT
FLUME
"TYPICAL" 286.5'
"TYPICAL" 285.1'
"TYPICAL" 266.0'
OVERHANG
TYPICAL FLUME
200.6'
SIGN
SPEED SIGN
SIGN ON TURN
SIGN ONE WAY
SYC 48-80
SYC 48-80
SYC 48-80



NOTE:
PROPOSED PLUMBING SHOWN ON PRIVATE PROPERTY IS NOT REVIEWED AND/OR APPROVED WITH THIS SITE PLAN SUBMITTAL. ALL PLUMBING ON PRIVATE PROPERTY WILL BE REVIEWED AND APPROVED DURING THE BUILDING PERMIT REVIEW.

WATER PLAN NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY.
2. ALL WATER LINES WILL BE LAID A MINIMUM OF 48" BELOW FINISHED GRADE EXCEPT AS SHOWN ON UTILITY CROSSING SHEETS.
3. ALL WATER LINE FITTINGS TO BE DUCTILE IRON MECHANICAL JOINT W/ MEGA LUGS. THE BID ITEM FOR D.I.M.J. FITTINGS WILL INCLUDE ALL NECESSARY BLOCKING.
4. UNCHARTED UTILITY LINES MAY BE LOCATED WITHIN THE AREA OF DEMOLITION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND IDENTIFYING ANY POTENTIAL CONFLICTS
5. WHERE REINFORCING IS NOT SPECIFICALLY DETAILED, REINFORCING FOR PAVING SHALL BE AT A MINIMUM, NO. 4 REBARS AT 12" O.C.E.W.
6. UNLESS SPECIFICALLY NOTED ON PLANS, ALL CONCRETE PAVING, SIDEWALKS, SLABS AND MISCELLANEOUS UTILITY INFRASTRUCTURES SHALL BE AT A MINIMUM, 4,000 PSI PORTLAND CEMENT CONCRETE AT 28 DAYS.
7. ALL AREAS OF THE SITE INCLUDING ANY OFF-SITE AREA THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES, SHALL RECEIVE AT A MINIMUM, HYDROMULCH AND 6" OF TOP-SOIL. REFER TO LANDSCAPE, DEMOLITION, GRADING, PAVING, DRAINAGE, WATER, SEWER, IRRIGATION AND SEDIMENT CONTROL PLANS TO DETERMINE ALL LIMITS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE SOD AS REQUIRED ELSEWHERE IN THE PLANS.

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

A — NEW SANITARY SEWER LINE CROSSING SEE PLAN AND PROFILE MAINTAIN MINIMUM OF 2' VERTICAL CLEARANCE

B — NEW STORM SEWER LINE CROSSING SEE PLAN AND PROFILE MAINTAIN MINIMUM OF 2' VERTICAL CLEARANCE

KEY PLAN

ARCHITECT
HKS INC.
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

CIVIL
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FORT WORTH, TEXAS 76107
(817) 732-9839

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CCA LANDSCAPE ARCHITECTS
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MEP
SALAS O'BRIEN
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IRVING, TEXAS 75062
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STRUCTURAL
HKS, INC
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DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER

04/22/2026

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
WATER PLAN

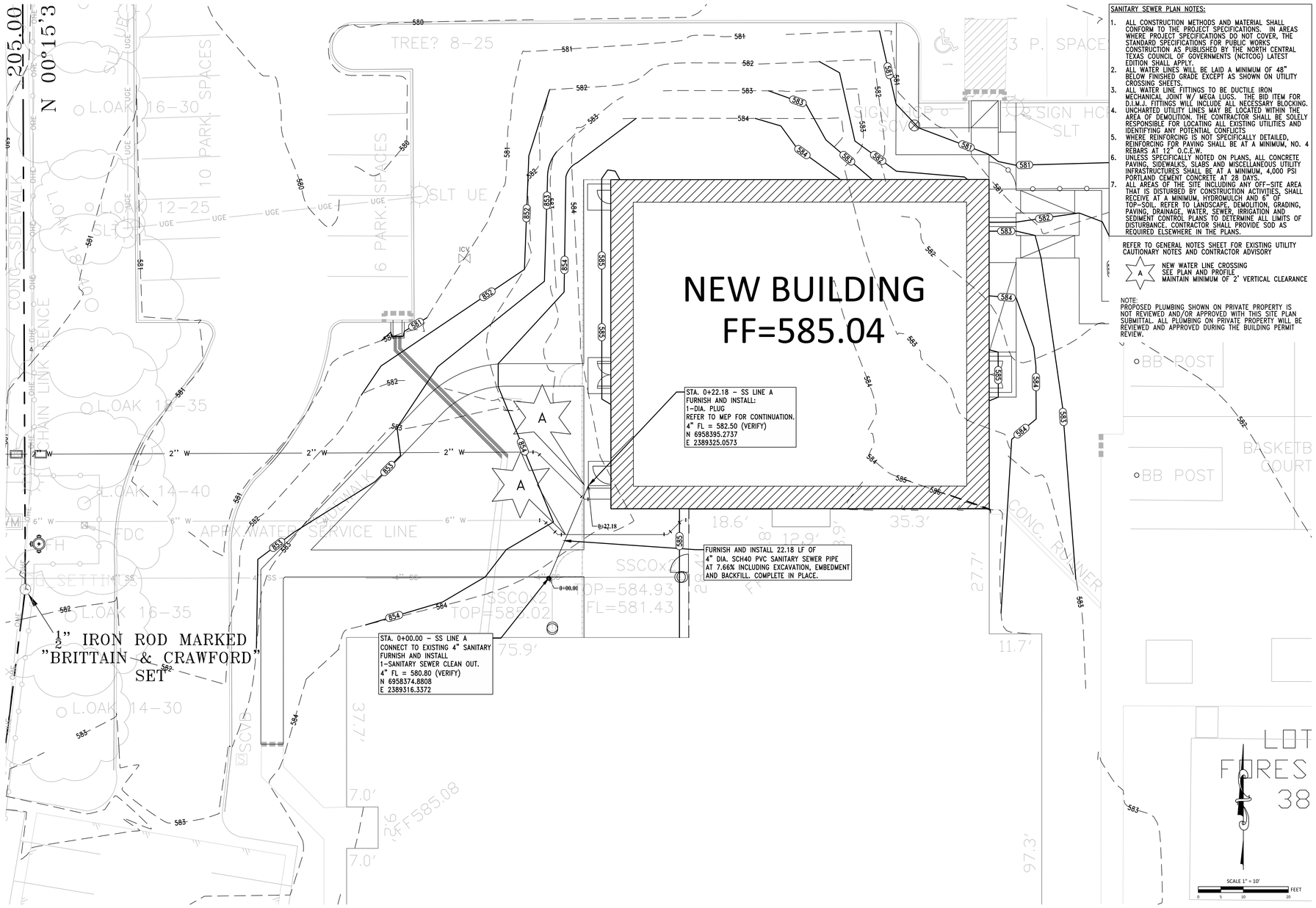
SHEET NO.
C1.12

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT., SUITE 204
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SANITARY SEWER PLAN NOTES:

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REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

A — NEW WATER LINE CROSSING
SEE PLAN AND PROFILE
MAINTAIN MINIMUM OF 2' VERTICAL CLEARANCE

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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS
93640
LICENSED PROFESSIONAL ENGINEER
04/22/2026

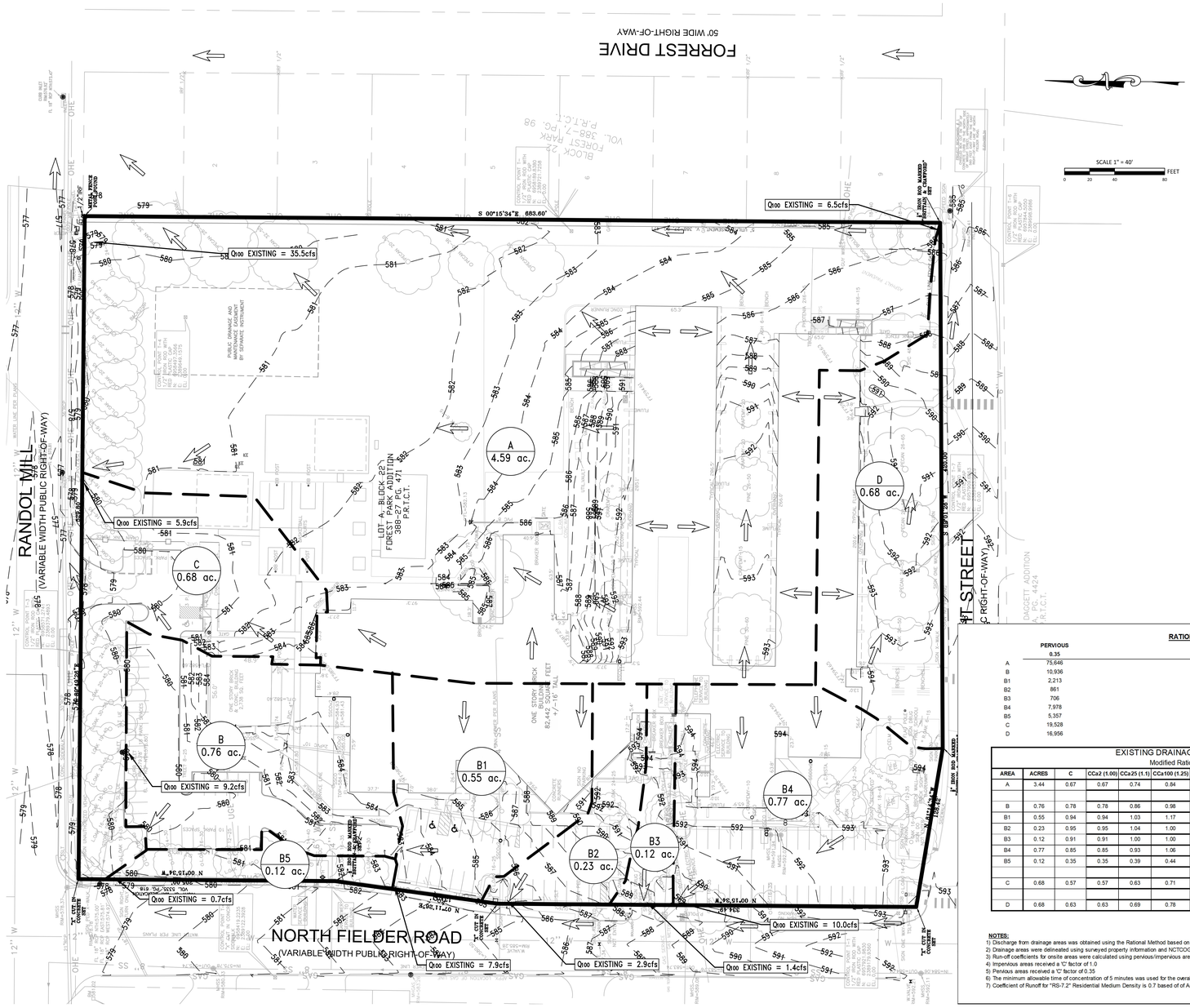
KEY PLAN

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BID SET

SHEET TITLE
SANITARY SEWER PLAN

SHEET NO.
C1.13



SCALE 1" = 40'
0 20 40 80 FEET

DRAINAGE LEGEND	
XX / X.XX ac.	DRAINAGE AREA LABEL / ACREAGE OF AREA
	DRAINAGE DIVIDE
	DRAINAGE AREA

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

RATIONAL METHOD

	PERVIOUS	IMPERVIOUS	TOTAL	AC	C
	0.35	1.00	TOTAL	AC	C
A	75,646	74,062	149,708	3.44	0.67
B	10,936	22,127	33,063	0.76	0.78
B1	2,213	21,596	23,809	0.55	0.94
B2	861	9,367	10,229	0.23	0.95
B3	706	4,380	5,086	0.12	0.91
B4	7,978	25,640	33,617	0.77	0.85
B5	5,357	0	5,357	0.12	0.35
C	19,528	9,926	29,454	0.68	0.57
D	16,956	12,538	29,495	0.68	0.63

EXISTING DRAINAGE AREA CALCULATIONS
Modified Rational Method Q=CcaIA

AREA	ACRES	C	CCa2 (1.00)	CCa25 (1.1)	CCa100 (1.25)	Tc (min)	I_2 (in/Hr)	I_{25} (in/Hr)	I_{100} (in/Hr)	Q_2 (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
A	3.44	0.67	0.67	0.74	0.84	5	5.80	9.88	12.30	13.4	25.1	35.5
									TOTAL =	13.4	25.1	35.5
B	0.76	0.78	0.78	0.86	0.98	5	5.80	9.88	12.30	3.5	6.5	9.2
B1	0.55	0.94	0.94	1.03	1.17	5	5.80	9.88	12.30	3.0	5.6	7.9
B2	0.23	0.95	0.95	1.04	1.00	5	5.80	9.88	12.30	1.3	2.4	2.9
B3	0.12	0.91	0.91	1.00	1.00	5	5.80	9.88	12.30	0.6	1.2	1.4
B4	0.77	0.85	0.85	0.93	1.06	5	5.80	9.88	12.30	3.8	7.1	10.0
B5	0.12	0.35	0.35	0.39	0.44	5	5.80	9.88	12.30	0.2	0.5	0.7
									TOTAL =	12.1	22.7	31.4
C	0.68	0.57	0.57	0.63	0.71	5	5.80	9.88	12.30	2.2	4.2	5.9
									TOTAL =	2.2	4.2	5.9
D	0.68	0.63	0.63	0.69	0.78	5	5.80	9.88	12.30	2.5	4.6	6.5
									TOTAL =	2.5	4.6	6.5

NOTES:
1) Discharge from drainage areas was obtained using the Rational Method based on the most current City of Arlington Design Criteria Manual
2) Drainage areas were delineated using surveyed property information and NCTCOG aerial images and contours.
3) Run-off coefficients for onsite areas were calculated using pervious/impervious area and their designated run-off coefficients.
4) Impervious areas received a 'C' factor of 1.0
5) Pervious areas received a 'C' factor of 0.35
6) The minimum allowable time of concentration of 5 minutes was used for the overall drainage basin.
7) Coefficient of Runoff for "RS-7.2" Residential Medium Density is 0.7 based of of Arlington Design Criteria Manual Table 5-4

AMANDA NUMBER: 2026 006578 SP

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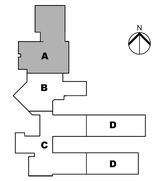
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WIMBISH WORLD LANGUAGE ACADEMY

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KEY PLAN

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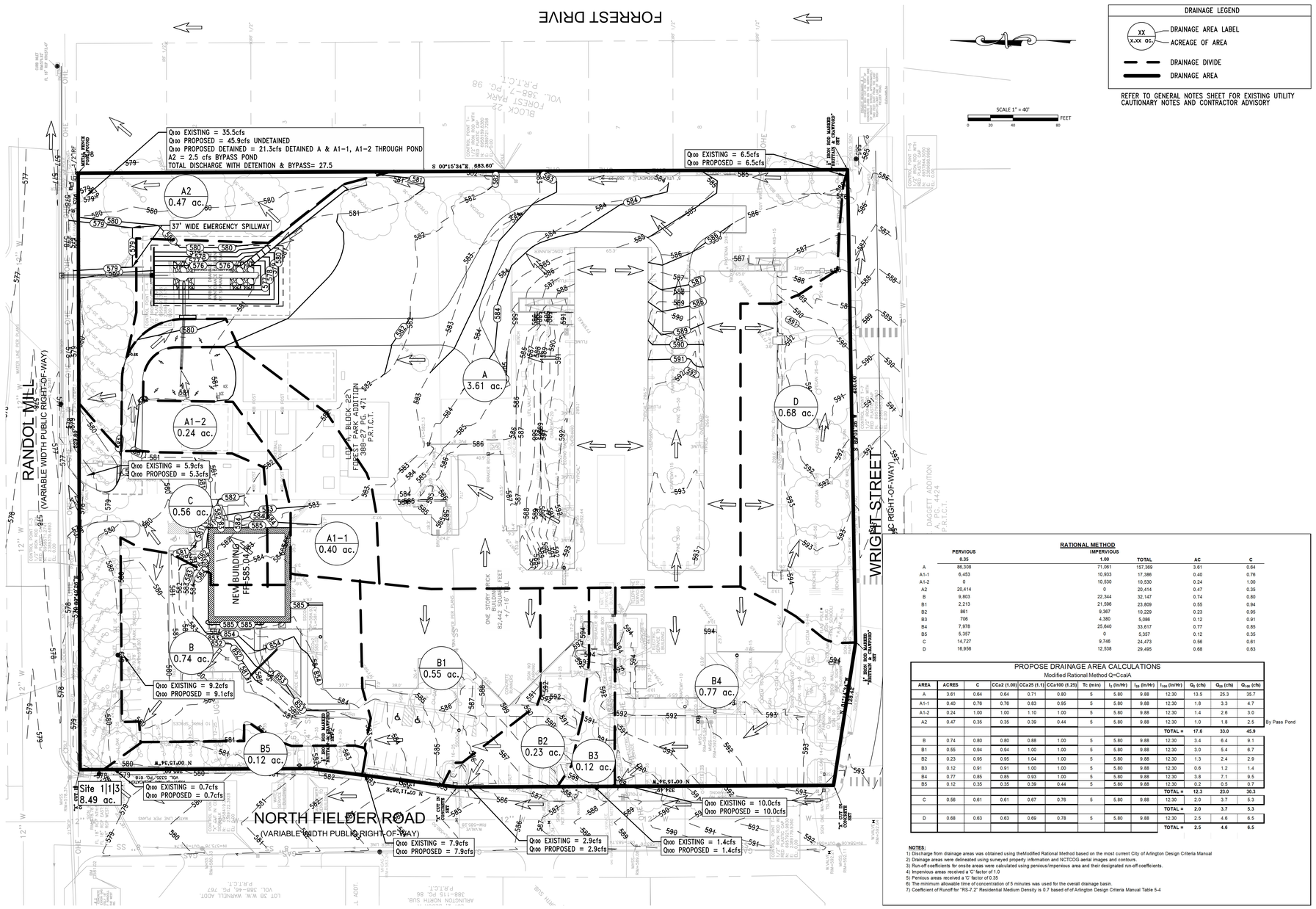
HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
EXISTING DRAINAGE AREA MAP

SHEET NO.
C1.14



DRAINAGE LEGEND

XX / X.XX ac.	DRAINAGE AREA LABEL / ACREAGE OF AREA
	DRAINAGE DIVIDE
	DRAINAGE AREA

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

SCALE 1" = 40'
0 20 40 80 FEET

RATIONAL METHOD

	PERVIOUS 0.35	IMPERVIOUS 1.00	TOTAL	AC	C
A	86,308	71,061	157,369	3.61	0.64
A1-1	6,453	10,933	17,386	0.40	0.76
A1-2	0	10,530	10,530	0.24	1.00
A2	20,414	0	20,414	0.47	0.35
B	9,803	22,344	32,147	0.74	0.80
B1	2,213	21,596	23,809	0.55	0.94
B2	861	9,367	10,229	0.23	0.95
B3	706	4,380	5,086	0.12	0.91
B4	7,978	25,640	33,617	0.77	0.85
B5	5,357	0	5,357	0.12	0.35
C	14,727	9,746	24,473	0.56	0.61
D	16,956	12,538	29,495	0.68	0.63

PROPOSE DRAINAGE AREA CALCULATIONS
Modified Rational Method Q=CcaIA

AREA	ACRES	C	CCa2 (1.00)	CCa25 (1.1)	CCa100 (1.25)	Tc (min)	I_2 (in/hr)	I_{25} (in/Hr)	I_{100} (in/Hr)	Q_2 (cfs)	Q_{25} (cfs)	Q_{100} (cfs)	
A	3.61	0.64	0.64	0.71	0.80	5	5.80	9.88	12.30	13.5	25.3	35.7	
A1-1	0.40	0.76	0.76	0.83	0.95	5	5.80	9.88	12.30	1.8	3.3	4.7	
A1-2	0.24	1.00	1.00	1.10	1.00	5	5.80	9.88	12.30	1.4	2.6	3.0	
A2	0.47	0.35	0.35	0.39	0.44	5	5.80	9.88	12.30	1.0	1.8	2.5	By Pass Pond
									TOTAL =	17.6	33.0	45.9	
B	0.74	0.80	0.80	0.88	1.00	5	5.80	9.88	12.30	3.4	6.4	9.1	
B1	0.55	0.94	0.94	1.00	1.00	5	5.80	9.88	12.30	3.0	5.4	6.7	
B2	0.23	0.95	0.95	1.04	1.00	5	5.80	9.88	12.30	1.3	2.4	2.9	
B3	0.12	0.91	0.91	1.00	1.00	5	5.80	9.88	12.30	0.6	1.2	1.4	
B4	0.77	0.85	0.85	0.93	1.00	5	5.80	9.88	12.30	3.8	7.1	9.5	
B5	0.12	0.35	0.35	0.39	0.44	5	5.80	9.88	12.30	0.2	0.5	0.7	
									TOTAL =	12.3	23.0	30.3	
C	0.56	0.61	0.61	0.67	0.76	5	5.80	9.88	12.30	2.0	3.7	5.3	
									TOTAL =	2.0	3.7	5.3	
D	0.68	0.63	0.63	0.69	0.78	5	5.80	9.88	12.30	2.5	4.6	6.5	
									TOTAL =	2.5	4.6	6.5	

NOTES:
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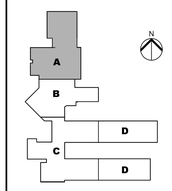
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER
04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005
DATE
04/27/26
ISSUE
BID SET

SHEET TITLE
PROPOSED DRAINAGE AREA MAP

SHEET NO.
C1.15

AMANDA NUMBER: 2026 006578 SP

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POND MODELING WAS DONE THROUGHTHE ISWM METHOD. WE REMOVED THE ANTECENDENTS TO ALLOW FOR A MORE REALISTIC MODEL
BASIN A2 BYPASSES POND WITH 0.47 ACRES AND 2YR STORM =1.0CFS, 25YR STORM = 1.8CFS AND THE 100YR STORM = 2.5CFS
BASIN A, A1, A1-1 and A1-2 DRAIN TO POND WITH 4.25 ACRES 2YR STORM =16.6CFS, 25YR STORM =31.2CFS AND THE 100YR STORM =44.1CFS
EXISTING 2YR STORM= 13.4CFS, 25YR STORM = 22.8CFS, 100YR STORM = 28.3CFS WITHOUT ANTICEDENTS
ALLOWABLE DETENTION POND DISCHARGE 2YR STORM SEE CHART THIS SHEET

Detention Pond A Storage Volume Calculations

$V_{pre} = 60\ [CAa-(2CabAQ_a)^{1/2}+(Q_a/2)\ (b-T_c)]$ $\qquad V_{max} = V_{pre}*(P_{180}/P_{td})$

Area	Area (ac)	$C_{dev\ sloped}$	T_c (min)	Design Storm	I (in/hr)	$Q_{allowable}$ (cfs)	a	b	T_d (min)	V_{pre} (ft^3)	P_{180} (in)	I_{td} (in/hr)	P_{td} (in)	V_{max} (ft^3)
A	4.25	0.67	5	100	12.30	**25.80**	322.07	24.39	17.25	5,574	5.36	7.82	2.25	**13,290**
A	4.25	0.67	5	25	9.88	**21.00**	247.1	22.37	16.35	4,376	4.17	6.44	1.75	**10,408**
A	4.25	0.67	5	2	5.80	**12.40**	121.96	15.7	13.95	2,754	2.15	4.18	0.97	**6,102**

Detention Pond Stage-Storage-Discharge Data

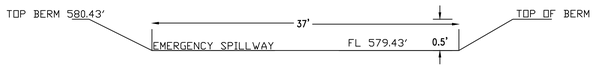
Stage	Elevation	Contour Area	Inc. Storage	Total Storage	Primary Outlet				Secondary Outlet			Total Discharge
					Stage 1				Stage 2			
					Weir		Orifice		Rectangular Weir			
					H	Q	H	Q	H	Q		
(ft)	(ft)	(sf)	(cf)	(cf)	(ft)	(cfs)	(ft)	(cfs)	(ft)	(cfs)		(cfs)
0.00	575.02	0	0	0	-	-	-	-	-	-		-
1.00	576.02	1,669	835	835			0.47	5.88				5.88
2.00	577.02	2,527	2,527	3,362			1.47	10.41				10.41
2.61	**577.63**	3,287	5,292	**6,127**			2.08	12.38				**12.38**
3.20	578.22	3,672	4,406	7,768			2.67	14.03	0.22	0.5		14.56
3.65	**578.67**	4,121	4,286	**10,412**			3.12	15.16	0.67	2.8		**17.99**
4.08	579.10	4,443	3,910	11,678			3.55	16.17	1.10	6.0		22.13
4.41	**579.43**	4,887	1,613	**13,290**			3.88	16.91	1.43	8.8		**25.73**
4.98	580.00	5,500	3,135	16,425			4.45	18.11	2.00	14.6		32.71

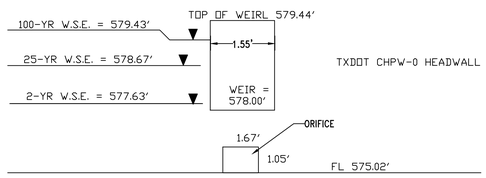
Target Values				Actual discharge
Yr	Storage	WSE ft	Q cfs	Q cfs
2	6102	577.63	12.40	**12.38**
25	10408	578.67	21.00	**17.99**
100	13290	579.43	25.80	**25.73**

Spillway Calculations

Q=CLH^(3/2)	Q=3.33*87*(0.5^3/2)
Qult= 43.4	$Q_{PROVIDED}$= 43.6
H= 0.5	
L_{REQ}= 36.9	
$L_{PROVIDED}$= 37.0	Qdesign > Qultimate

EMERGENCY SPILLWAY DESIGNED WITH ANTECEDENT FOR ULTIMATE FLOW





DETENTION POND OUTFALL DETAIL
N.T.S.

$Q = CA\ (2gH)^{0.5}$ **(2.9)**

where:

- Q = the orifice flow discharge (cfs)
- C = discharge coefficient
- A = cross-sectional area of orifice or pipe (ft^2)
- g = acceleration due to gravity (32.2 ft/s^2)
- D = diameter of orifice or pipe (ft)
- H = effective head on the orifice, from the center of orifice to the water surface

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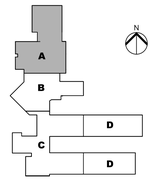
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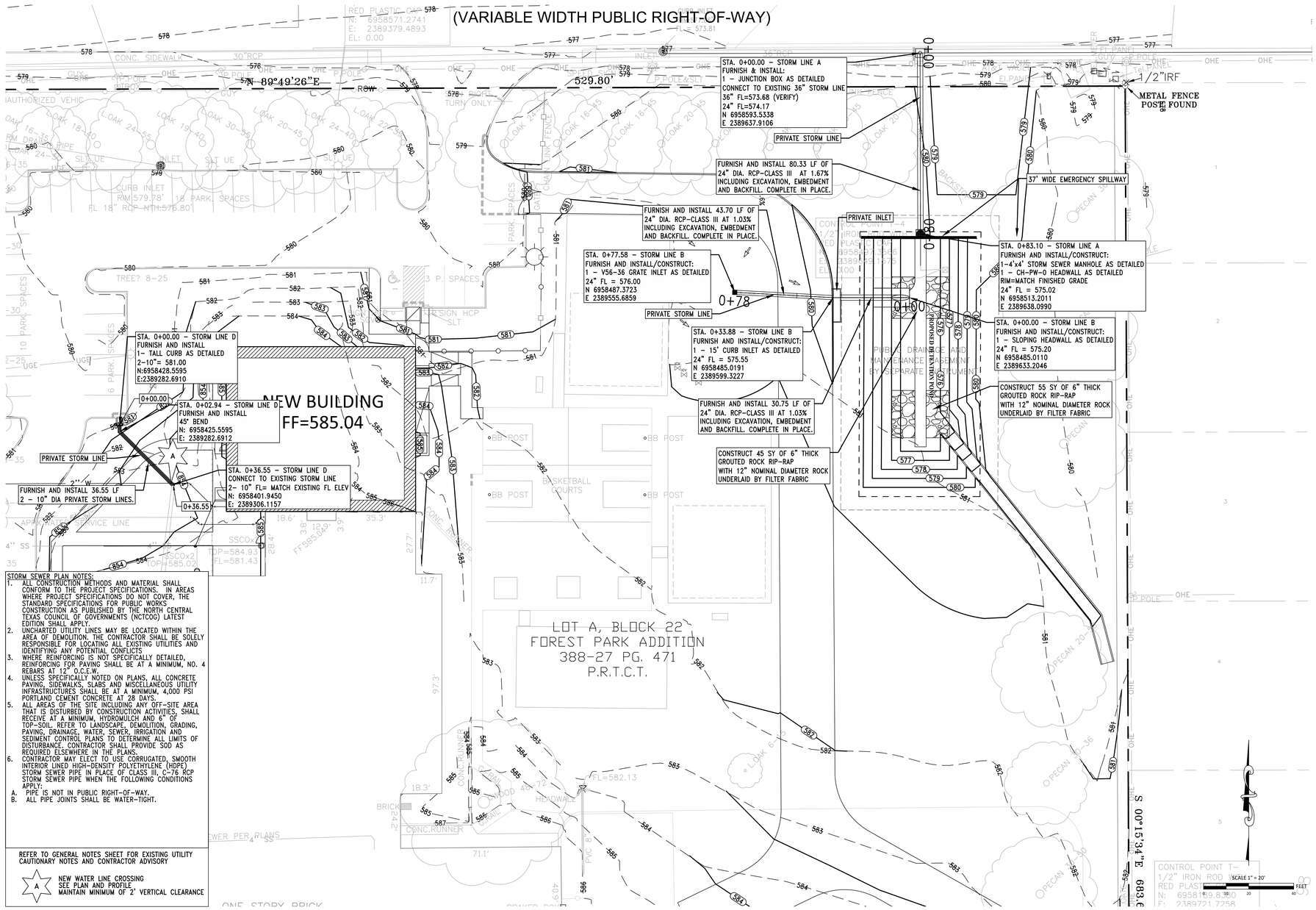
NO.	DESCRIPTION	DATE

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DATE
04/27/26
ISSUE
BID SET

SHEET TITLE
HYDRAULIC CALCS

SHEET NO.
C1.15A

PLOT DATE:
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EMPLATE VERSION: 23.0.4



STORM SEWER PLAN NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY.
2. UNCHARTED UTILITY LINES MAY BE LOCATED WITHIN THE AREA OF DEMOLITION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND IDENTIFYING ANY POTENTIAL CONFLICTS.
3. WHERE REINFORCING IS NOT SPECIFICALLY DETAILED, REINFORCING FOR PAVING SHALL BE AT A MINIMUM, NO. 4 REBARS AT 12" O.C.E.W.
4. UNLESS SPECIFICALLY NOTED ON PLANS, ALL CONCRETE PAVING, SIDEWALKS, SLABS AND MISCELLANEOUS UTILITY INFRASTRUCTURES SHALL BE AT A MINIMUM, 4,000 PSI PORTLAND CEMENT CONCRETE AT 28 DAYS.
5. ALL AREAS OF THE SITE INCLUDING ANY OFF-SITE AREA THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES, SHALL RECEIVE AT A MINIMUM, HYDROMULCH AND 6" OF TOP-SOIL. REFER TO LANDSCAPE, DEMOLITION, GRADING, PAVING, DRAINAGE, WATER, SEWER, IRRIGATION AND SEDIMENT CONTROL PLANS TO DETERMINE ALL LIMITS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE SOD AS REQUIRED ELSEWHERE IN THE PLANS.
6. CONTRACTOR MAY ELECT TO USE CORRUGATED, SMOOTH INTERIOR LINED HIGH-DENSITY POLYETHYLENE (HDPE) STORM SEWER PIPE IN PLACE OF CLASS III, C-76 RCP STORM SEWER PIPE WHEN THE FOLLOWING CONDITIONS APPLY:

A. PIPE IS NOT IN PUBLIC RIGHT-OF-WAY.
B. ALL PIPE JOINTS SHALL BE WATER-TIGHT.

REFER TO GENERAL NOTES SHEET FOR EXISTING UTILITY CAUTIONARY NOTES AND CONTRACTOR ADVISORY

A — NEW WATER LINE CROSSING
SEE PLAN AND PROFILE
MAINTAIN MINIMUM OF 2' VERTICAL CLEARANCE

AMANDA NUMBER: 2026 006578 SP

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SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER

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KEY PLAN

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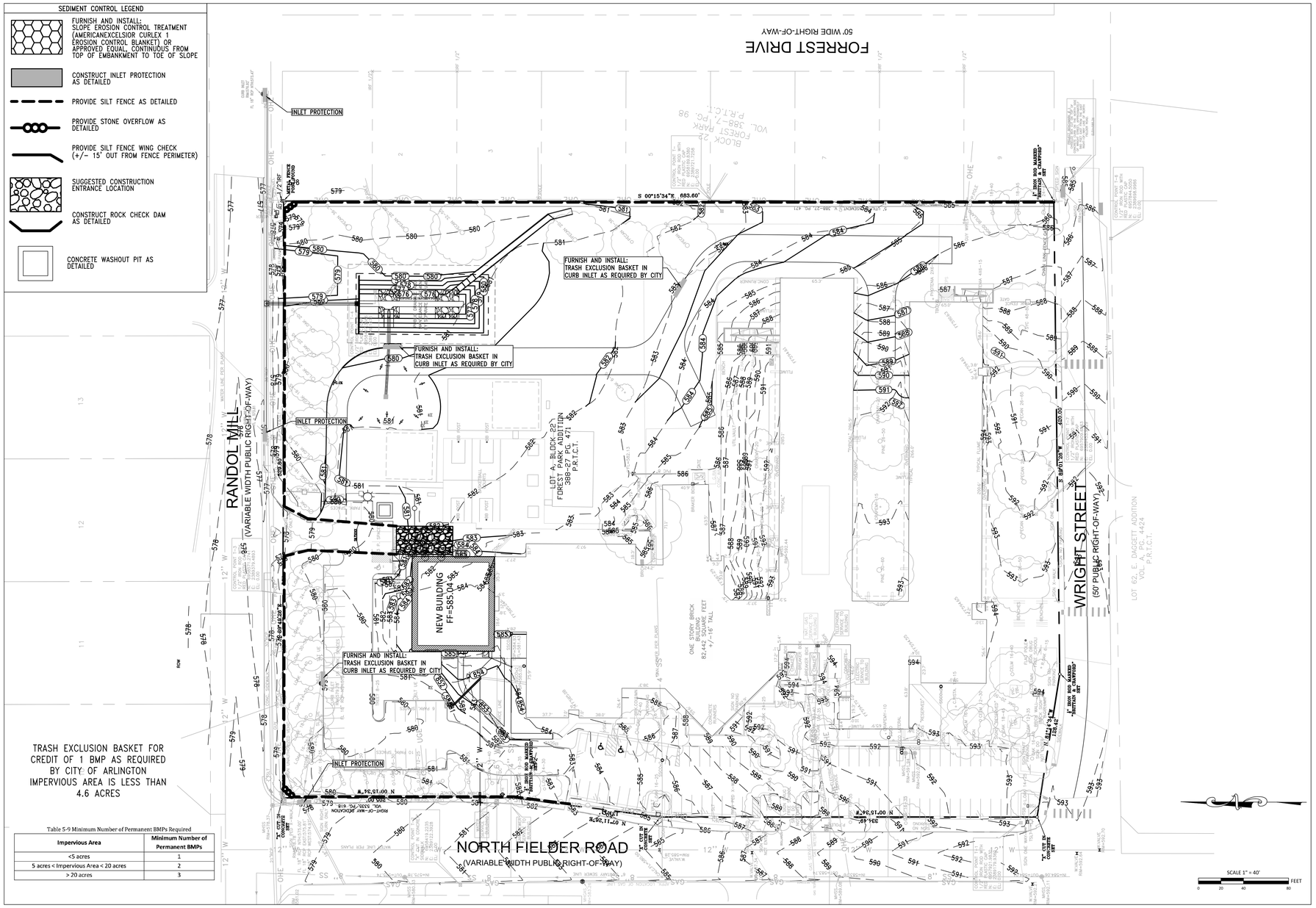
ISSUE
BID SET

SHEET TITLE
STORM SEWER PLAN

SHEET NO.
C1.16

SEDIMENT CONTROL LEGEND

- FURNISH AND INSTALL: SLOPE EROSION CONTROL TREATMENT (AMERICANEXCELSIOR CURLEX 1 EROSION CONTROL BLANKET) OR APPROVED EQUAL, CONTINUOUS FROM TOP OF EMBANKMENT TO TOE OF SLOPE
- CONSTRUCT INLET PROTECTION AS DETAILED
- PROVIDE SILT FENCE AS DETAILED
- PROVIDE STONE OVERFLOW AS DETAILED
- PROVIDE SILT FENCE WING CHECK (+/- 15' OUT FROM FENCE PERIMETER)
- SUGGESTED CONSTRUCTION ENTRANCE LOCATION
- CONSTRUCT ROCK CHECK DAM AS DETAILED
- CONCRETE WASHOUT PIT AS DETAILED



TRASH EXCLUSION BASKET FOR CREDIT OF 1 BMP AS REQUIRED BY CITY OF ARLINGTON IMPERVIOUS AREA IS LESS THAN 4.6 ACRES

Table 5-9 Minimum Number of Permanent BMPs Required

Impervious Area	Minimum Number of Permanent BMPs
<5 acres	1
5 acres < Impervious Area < 20 acres	2
> 20 acres	3

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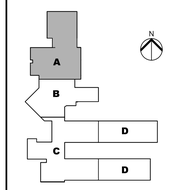
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93640
LICENSED PROFESSIONAL ENGINEER
04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
STORM WATER MANAGEMENT PLAN

SHEET NO.
C1.17

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
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CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
CONSTRUCTION ACCESS--ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH GRAVEL AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS--BASIN TRAPS, SEDIMENT FENCES AND OUTLET PROTECTION	AFTER CONSTRUCTION SITE IS ACCESSED, PRINCIPAL BASIN SHOULD BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING.
RUNOFF CONTROL--DIVERSION, PERIMETER DIKES, WATER BARS, OUTLET PROTECTION	KEY PRACTICES SHOULD BE INSTALLED AFTER THE INSTALLATION OF PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM--STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS	IF NECESSARY, STABILIZE STREAM BANKS AS SOON AS POSSIBLE, AND INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. THE REMAINDER OF THE SYSTEMS MAY BE INSTALLED AFTER GRADING.
LAND CLEARING AND GRADING--SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSION, DRAINS, SURFACE ROUGHENING)	IMPLEMENT MAJOR CLEARING AND GRADING AFTER INSTALLATION OF PRINCIPAL SEDIMENT AND KEY RUNOFF-CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED, AND MARK TREES AND BUFFER AREAS FOR PRESERVATION.
SURFACE STABILIZATION--TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIP RAP	TEMPORARY OR PERMANENT STABILIZING MEASURES SHOULD BE APPLIED IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
BUILDING CONSTRUCTION--BUILDINGS, UTILITIES, PAVING	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION--TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP RAP	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.
CONTRACTOR ADVISORY: THE CONTRACTOR, AND HIS AGENTS, SUB CONTRACTOR/ENGINEER/SURVEYOR, ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER, AND HIS AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL OF THE COORDINATES FOR ACCURACY AND CONFIRM THE LOCATIONS OF ALL UTILITIES TO BE CONSTRUCTED, BOTH HORIZONTALLY AND VERTICALLY. DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED IN WRITING, TO THE OWNER IMMEDIATELY FOR RECONCILIATION.	NOTE: 1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY. 2. CONTRACTOR SHALL PROVIDE A CONCRETE WASH OUT PIT PER NCTCOG BEST MANAGEMENT PRACTICES.
EXISTING IRRIGATION SYSTEM NOTE: THE CONTRACTOR SHALL PROTECT ALL EXISTING SPRINKLER HEADS, LINES, ETC. DURING THE DURATION OF CONSTRUCTION. ANY SPRINKLER LINES, HEADS, METERS, VALVES, ETC. THAT ARE DAMAGED OR RELOCATED BY CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO ORIGINAL CONDITION OR BETTER (NO SPECIAL PAY). COORDINATE WITH OWNER AND/OR LANDSCAPE IRRIGATION PLANS.	

SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THE PROJECT SPECIFICATIONS. IN AREAS WHERE PROJECT SPECIFICATIONS DO NOT COVER, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) LATEST EDITION SHALL APPLY
2. EROSION CONTROL MEASURES SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) THAT IS KEPT ONSITE AT ALL TIMES WITH THESE CONSTRUCTION DOCUMENTS FOR COMPLIANCE WITH THE T.P.D.E.S. GENERAL PERMIT
3. IN ORDER TO MINIMIZE EROSION CONTROL PROBLEMS, GENERAL CONTRACTOR SHALL COORDINATE WITH EXCAVATOR, LANDSCAPE, AND IRRIGATION CONTRACTORS TO DETERMINE EARLIEST POSSIBLE DATE TO INSTALL GRASSING AS NOTED ON THE LANDSCAPE PLAN
4. THE STABILIZED CONSTRUCTION ENTRANCE HAS BEEN SHOWN ARBITRARILY. IT IS THE GENERAL CONTRACTOR'S CHOICE (IN COMPLIANCE WITH ALL CITY AND STATE REGULATIONS) TO DETERMINE THE LOCATION(S) OF PROJECT INGRESS / EGRESS POINTS. HOWEVER ALL ENTRANCES AT ALL TIMES SHALL BE PREPARED IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAIL AND CONTINUOUSLY MAINTAINED UNTIL FINAL PAVING IS ESTABLISHED. CHANGES TO THIS EROSION CONTROL PLAN ARE TO BE LOGGED IN THE SWPPP
5. STABILIZED SLOPES (CURLEX BLANKET AND 70% COVER OF VEGETATION) ACHIEVING EROSION-FREE CONDITIONS MUST BE IN PLACE AND EFFECTIVE BY THE PROJECT "POSSESSION DATE".
6. A TEMPORARY ALL-WEATHER SURFACE TO AND COMPLETELY AROUND THE BUILDING PAD SHALL BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH FIRE MARSHALL TO DETERMINE ANY VEHICULAR FIRE ACCESS REQUIRED DURING CONSTRUCTION
7. THE EROSION CONTROL PLAN WILL INCORPORATE EROSION CONTROL MEASURES AND TECHNIQUES TO PREVENT SEDIMENTATION AND ERODED SOIL FROM LEAVING THE SITE EITHER BY WAY OF STORM DRAIN SYSTEM OR ONTO ADJACENT PRIVATE AND PUBLIC PROPERTY. CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS SHOWN ON THE PLANS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENTATION. CONTRACTOR SHALL NOTIFY CONSULTING ENGINEER AT ONCE IF SITE CONDITIONS WARRANT ADDITIONAL EROSION CONTROL MEASURES. CONTRACTOR IS RESPONSIBLE FOR TAKING IMMEDIATE ACTION TO REMEDY EROSION CONTROL WHILE CONSULTING ENGINEER IS PREPARING RESPONSE
8. THE CONTRACTOR SHALL STABILIZE THE EARTHEN SLOPE AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN WITHIN 72 HOURS AFTER FINAL GRADE AND TOPSOIL HAS BEEN ESTABLISHED IN ACCORDANCE WITH THE PROJECT SITEWORK SPECS
9. THE SPECIFIC PLANT MATERIALS PROPOSED TO PROTECT FILL AND EXCAVATED SLOPES SHALL BE AS INDICATED ON THE PLANS. PLANT MATERIALS MUST BE SUITABLE FOR USE UNDER LOCAL CLIMATE AND SOIL CONDITIONS. IN GENERAL, HYDRO SEEDING OR SODDING BERMUDA GRASS IS ACCEPTABLE DURING THE SUMMER MONTHS (MAY 1 TO AUGUST 30). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE
10. PRIOR TO COMMENCING ANY CONSTRUCTION, A CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE SHALL BE INSTALLED AT THE LOCATION(S) SHOWN
11. AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED
12. AT THE COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS
13. SILT FENCE AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED
14. DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RESEEDED OR RESODDED, IF NECESSARY
15. ALL EROSION CONTROL MEASURES TO BE PLACED BASED ON CONTRACTOR'S BEST JUDGMENT AND CONSTRUCTION PHASING TO MINIMIZE SILT RUNOFF TO THE MAXIMUM EXTENT PRACTICABLE
16. TEMPORARY INLET PROTECTION TO BE REMOVED OR ADDED BASED ON EXISTING STORM SEWER REMOVAL AND/OR PROPOSED STORM SEWER CONSTRUCTION. FUNCTIONING INLETS SHALL BE INLET PROTECTED AT ALL TIMES. (USE PIPE INLET PROTECTION IF NEEDED)
17. SHOWN CONSTRUCTION ENTRANCES TO BE PLACED, MODIFIED ON THIS PLAN AND LOGGED IN THE SWPPP BASED ON CONSTRUCTION MANAGER'S ON-SITE DECISIONS TO CONTROL EROSION TO THE MAXIMUM EXTENT PRACTICABLE CONSTRUCTION ENTRANCES TO BE PLACED BASED ON CONSTRUCTION PHASING
18. CONTRACTOR SHALL DESIGN AND CONSTRUCT THE WASH-OUT PIT AND CONTAINMENT BASIN IN ACCORDANCE WITH THE STORM WATER POLLUTION PLAN FOR THE PROJECT AND SUBMIT PROPOSED LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING ANY CONSTRUCTION

CONCRETE WASH-OUT PIT NOTES:

1. CONTRACTOR SHALL PROVIDE A WASH-OUT AREA, AS SPECIFIED IN THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) ISWM MANUAL FOR CONSTRUCTION LATEST EDITION, WITH A MINIMUM OF 6 CUBIC FEET OF CONTAINMENT AREA VOLUME FOR EVERY 10 CUBIC YARDS OF CONCRETE POURED
2. CONTRACTOR SHALL NOT DUMP WASTE CONCRETE ILLICITLY OR WITHOUT PROPERTY OWNER'S KNOWLEDGE AND CONSENT
3. OVERFLOW OF WASHDOWN WATER SHALL BE DISCHARGED IN AN AREA PROTECTED BY ONE OR MORE SEDIMENT REMOVAL BMPS AND SHALL BE DONE IN MANNER THAT DOES NOT RESULT IN A VIOLATION OF GROUNDWATER OR SURFACE WATER QUALITY STANDARDS
4. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS SET FORTH IN TPDES GENERAL PERMIT TXR 150000

MAINTENANCE:

ALL MEASURES STATED ON THIS EROSION CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%

EROSION CONTROL AND SLOPE PROTECTION IMPLEMENTATION:

1. PLACE EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CONSTRUCTION DRAWINGS AND STORM WATER POLLUTION PREVENTION PLAN OR AS MAY BE DICTATED BY SITE CONDITIONS IN ORDER TO MAINTAIN THE INTENT OF THE SPECIFICATIONS AND PERMITS AT NO ADDITIONAL COST TO OWNER
2. DEFICIENCIES OR CHANGES ON CONSTRUCTION DRAWINGS OR STORM WATER POLLUTION PREVENTION PLAN SHALL BE IMPLEMENTED AS SITE CONDITIONS CHANGE
3. OWNER HAS AUTHORITY TO LIMIT SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW AND EMBANKMENT OPERATIONS AND TO DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES
4. MAINTAIN TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY OWNER OR GOVERNING AUTHORITIES TO CONTROL SILTATION DURING LIFE OF CONTRACT. CONTRACTOR SHALL RESPOND TO MAINTENANCE OR ADDITIONAL WORK ORDERED BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER
5. CONTRACTOR WILL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS
6. PERMANENTLY SEED AND MULCH CUT SLOPES AS EXCAVATION PROCEEDS TO EXTENT CONSIDERED DESIRABLE AND PRACTICAL
7. SLOPES THAT ERODE EASILY OR THAT WILL NOT BE GRADED FOR A PERIOD OF 14 DAYS OR MORE SHALL BE TEMPORARILY SEEDED AS WORK PROGRESSES WITH WHEAT, RYE, OR OATS APPLICATION IN ACCORDANCE WITH SECTION 02900 UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS

EROSION CONTROL BLANKET:

BLANKETS, BIODEGRADABLE, ENCLOSED IN A PHOTODEGRADABLE PLASTIC MESH, INCLUDING STEEL WIRE STAPLES, 6 INCHES LONG. CURLEX I BLANKETS, 8" STITCHING BY AMERICAN EXCELSIOR COMPANY, OR POLYJUTE STYLE 465 GT BY SYNTHETIC INDUSTRIES

SITE DISTURBANCE NOTES:

1. ALL AREAS OF THE SITE INCLUDING ANY OFF-SITE AREA THAT IS DISTURBED BY CONSTRUCTION ACTIVITIES, SHALL RECEIVE AT A MINIMUM, HYDROMULCH AND 6" OF TOP-SOIL. REFER TO LANDSCAPE, DEMOLITION, GRADING, PAVING, DRAINAGE, WATER, SEWER, IRRIGATION AND SEDIMENT CONTROL PLANS TO DETERMINE ALL LIMITS OF DISTURBANCE. CONTRACTOR SHALL PROVIDE SOD AS REQUIRED ELSEWHERE IN THE PLANS.
2. SUPPLY THE SEEDED AREAS WITH ADEQUATE MOISTURE (6" PENETRATION) AT TEN (10) DAY INTERVALS, IF NEEDED, FOR SEED GERMINATION AND PLANT GROWTH UNTIL ACCEPTANCE BY THE OWNER. WATER THE SEED IN A MANNER WHICH WILL PREVENT EROSION OF THE SOIL. FURNISH ALL WATER TO BE USED. REPAIR WASHOUTS AND OTHER BARE SOIL AREAS IN A SEEDED AREA EITHER BY RE-SEEDING, SPRIGGING, OR SPOT-SODDING, AND PERFORM MAINTENANCE AS NEEDED TO ESTABLISH GRASS IN THE AREA. CONTROL COMPETITIVE WEED GROWTH DURING THE ESTABLISHMENT PERIOD WITH HERBICIDES. CHEMICAL USAGE SHALL BE IN ACCORDANCE WITH THE CURRENT RECOMMENDATIONS OF THE TEXAS AGRICULTURAL EXPERIMENT STATION OR LOCAL SOIL CONSERVATION SERVICE FIELD OFFICE TECHNICAL GUIDES. STRICTLY ADHERE TO ALL FEDERAL, STATE, AND LOCAL LAWS GOVERNING HERBICIDES. WEED CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY WHETHER TOPSOIL IS FROM ON-SITE OR OFF-SITE SOURCES AND ALSO FOR SEEDED AREAS WHICH ARE SPECIFIED NOT TO RECEIVE TOPSOIL.
3. ANY AREAS WHICH ARE DISTURBED BY THE CONTRACTOR WHICH ARE NOT SHOWN ON THE DRAWINGS OR SPECIFIED TO REQUIRE DISTURBANCE INCLUDING ANY APPROVED AREAS NOT SHOWN ON THE DRAWINGS, SHALL BE CONSIDERED AS UNAUTHORIZED DISTURBED AREAS. ANY SUCH AREAS SHALL BE SEEDED AS SPECIFIED IN THIS SECTION AT THE CONTRACTOR'S EXPENSE. (NO SEPARATE PAY)

SEQUENCE OF CONSTRUCTION:

PHASE I:
1. INSTALL STABILIZED CONSTRUCTION ENTRANCES
2. PREPARE TEMPORARY PARKING AND STORAGE AREA
3. CONSTRUCT THE SILT FENCES ONSITE
4. CONSTRUCT THE SEDIMENTATION BASINS
5. CLEAR AND GRUB THE SITE
6. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES
7. BEGIN GRADING THE SITE

PHASE II:
1. TEMPORARILY SEED DENUDED AREAS
2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS
3. INSTALL RIP-RAP AROUND OUTLET STRUCTURES
4. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES
5. PREPARE SITE FOR PAVING
6. PAVE SITE
7. INSTALL INLET PROTECTION DEVICES
8. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING
9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED)

INLET PROTECTION NOTES:

1. FOR DROP INLETS, USE TEMPORARY INSERTS AND BLOCK GRAVEL PROTECTION AS DETAILED.
2. FOR CURB INLETS, USE TEMPORARY INSETS.
3. FOR TRENCH AND GRATE INLETS, USE TEMPORARY INSERTS AND BLOCK GRAVEL PROTECTION AS DETAILED.
   -TEMPORARY INSERTS SHALL BE IPC, CURB GUARD, FILTREXX SOXX, WEIGHTED WATTLE, ETC.
   -TEMPORARY INSERTS AND OTHER SEDIMENT CONTROL MEASURES SHALL BE CLEANED OUT ON A REGULAR BASIS BY THE CONTRACTOR.

AMANDA NUMBER: 2026 006578 SP

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PLOT DATE: 12/20/2025 11:31:02 AM EARPLATE VERSION: 23.0.4

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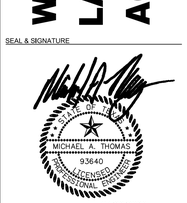
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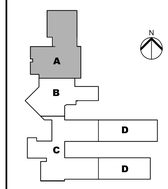
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

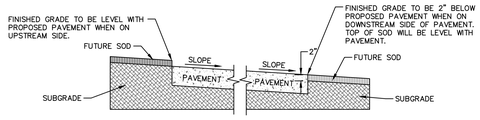
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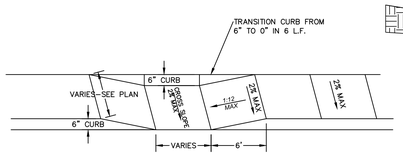
SHEET TITLE
STORM WATER MANAGEMENT NOTES

SHEET NO.
C1.18



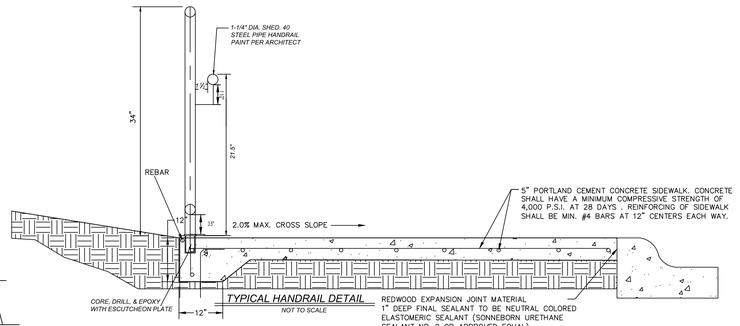
GRADING DETAIL FOR PAVEMENT WITHOUT CURB

NOT TO SCALE



SIDEWALK RAMP TYPE 6

NOT TO SCALE



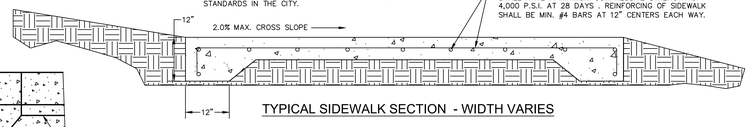
TYPICAL HANDRAIL DETAIL

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TYPICAL SIDEWALK SECTION - ADJACENT TO CURB - WIDTH VARIES

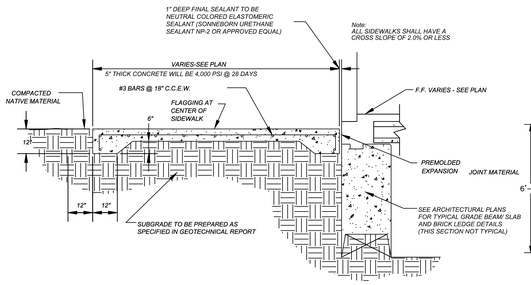
NOT TO SCALE

NOTE:
EXPANSION JOINTS AT ANY DIRECTION CHANGE AND 30' MAXIMUM ON STRAIGHT RUNS. JOINTS TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS THIS SHEET. SIDEWALK WILL BE TOOL JOINTED AT MAX 5' INTERVALS OR IN ACCORDANCE WITH APPLICABLE STANDARDS IN THE CITY.



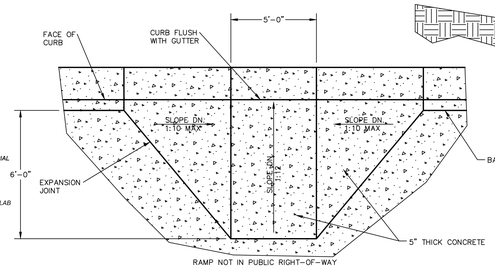
TYPICAL SIDEWALK SECTION - WIDTH VARIES

NOT TO SCALE



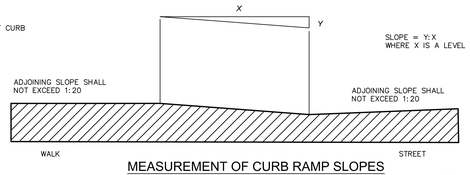
TYPICAL SIDEWALK ADJACENT TO BUILDING

NOT TO SCALE



CURB RAMP PLAN - DETAIL

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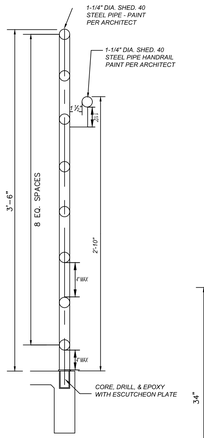


MEASUREMENT OF CURB RAMP SLOPES

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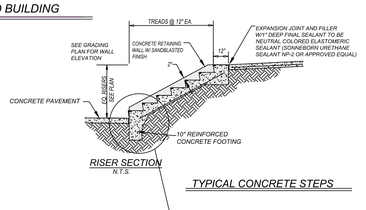
NOTE:
NO SAND SHALL BE USED UNDER ANY PAVEMENT – NO EXCEPTIONS

NOTE:
1. CONTRACTOR SHALL ENSURE THAT SIDEWALK ACCESSIBLE ROUTES DO NOT EXCEED 5.0% RUNNING SLOPE EXCEPT ON RAMPS, AND 2.0% CROSS SLOPE AT ALL LOCATIONS.
2. CONTRACTOR SHALL ENSURE THAT CHANGES IN LEVEL BETWEEN ¼" AND ½" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2, AS SHOWN IN TAS FIGURE 7(d). CHANGES IN LEVEL GREATER THAN ½" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP THAT COMPLIES WITH TAS SECTIONS 4.7 OR 4.8.
3. CONTRACTOR SHALL ENSURE THAT ALL ACCESSIBLE PARKING SPACES AND ACCESS AISLES ARE LEVEL WITH SURFACE SLOPES NOT EXCEED 2.0% IN ANY DIRECTION.
4. CURB STOPS, IF REQUIRED, SHALL BE LOCATED A MINIMUM OF 36" FROM THE CURB LINE.



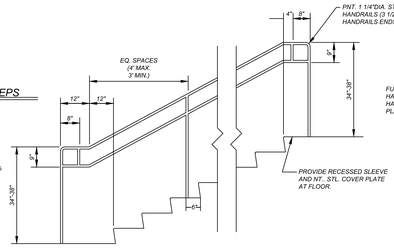
TYPICAL GUARDRAIL DETAIL

NOT TO SCALE



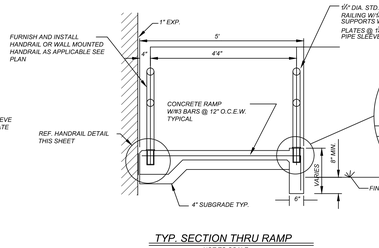
RISER SECTION

N.T.S.



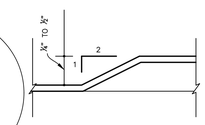
TYPICAL STAIRS WITH HANDRAIL

NOT TO SCALE



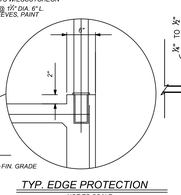
TYP. SECTION THRU RAMP

NOT TO SCALE



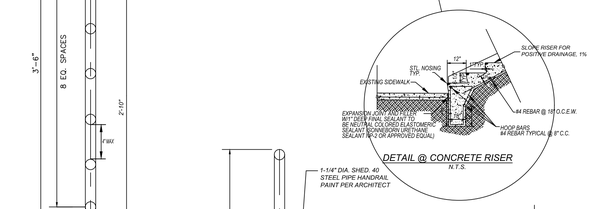
TAS FIGURE 7(d)

NOT TO SCALE



TYP. EDGE PROTECTION

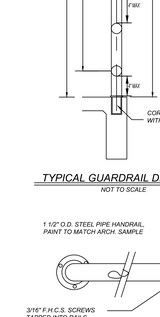
NOT TO SCALE



DETAIL @ CONCRETE RISER

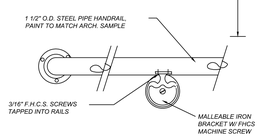
N.T.S.

TYPICAL CONCRETE STEPS



TYPICAL HANDRAIL DETAIL

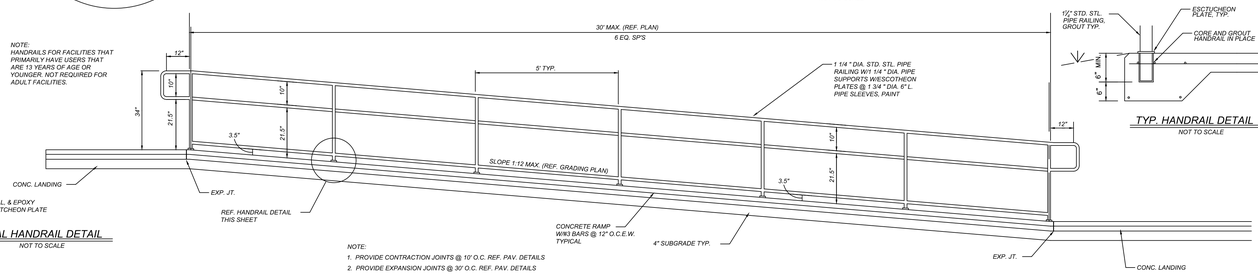
NOT TO SCALE



HANDRAIL BRACKET DETAIL

NOT TO SCALE

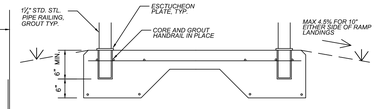
NOTE:
HANDRAILS FOR FACILITIES THAT PRIMARILY HAVE USERS THAT ARE 13 YEARS OF AGE OR YOUNGER, NOT REQUIRED FOR ADULT FACILITIES.



NOTE:
1. PROVIDE CONTRACTION JOINTS @ 10' O.C. REF. PAV. DETAILS
2. PROVIDE EXPANSION JOINTS @ 30' O.C. REF. PAV. DETAILS
3. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 1/2 INCH (13 mm) MAXIMUM WITHIN 10 INCHES (255 mm) HORIZONTALLY OF THE MINIMUM LANDING AREA.

TYPICAL RAMP SECTION

NOT TO SCALE



TYP. HANDRAIL DETAIL

NOT TO SCALE

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT. SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
PHONE - (817) 732-9839
FAX - (817) 732-9841
MJT NO. - 921-002A

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MEP
SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

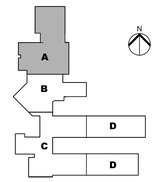
STRUCTURAL
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS
93640
LICENSED PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

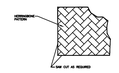
DATE
04/27/26

ISSUE
BID SET

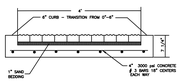
SHEET TITLE
SIDEWALK DETAILS

SHEET NO.
C2.01

PLOT DATE: 12/26/2025 11:31:32 AM
TEMPLATE VERSION: 23.0.4

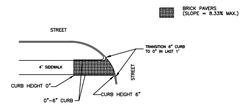


CONCRETE PAVER PATTERN



RAMP PAVER SECTION

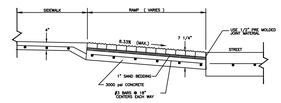
(NTS)



TYPE 1

TYPICAL BRICK PAVER RAMP

NTS

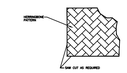


RAMP SECTION
TYPE 1

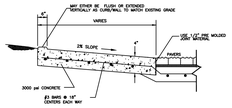
(NTS)

Note:
Sidewalks shall be constructed barrier free and fully accessible. Curb ramps are required at all intersections between sidewalks and streets. At driveways, the curb shall be layed down and the sidewalk section shall be continuous across the driveway. Curb ramps shall be constructed in accordance with the detail shown on the plans. Ramp slopes shall not exceed one inch (1") rise in twelve inches (12"). All ramps shall be constructed with 4" x 8" x 24" ADA compliant detectable warning pavers in Antique (shade #32) as manufactured by Whitacre-Greer or in Red (shade #25) as manufactured by Pine Hall Brick Company. All landings shown on the detail shall be constructed of concrete and paid for under the unit price bid for sidewalks. The ramps shall be paid for based on the unit price bid for each type of ramp. The concrete below the pavers and the bedding sand shall be subsidiary to the price bid for ramps.

REVISIONS/ REVISIONS		
CITY OF ARLINGTON, TEXAS		
PROJECT NUMBER PROJECT NAME (PROJECT LIMIT)		
DATE:	SCALE: NONE	SHEET ____ OF ____
DESIGNED BY:	DRAWN BY:	CHECKED BY:

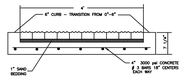


CONCRETE PAVER PATTERN



LANDING

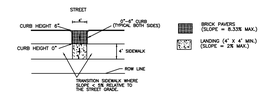
(NTS)



RAMP PAVER SECTION

(NTS)

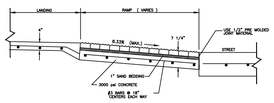
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TYPE 2

MIDBLOCK RAMP

NTS



CROSS SECTION
TYPE 2

(NTS)

REVISIONS/ REVISIONS		
CITY OF ARLINGTON, TEXAS		
PROJECT NUMBER PROJECT NAME (PROJECT LIMIT)		
DATE:	SCALE: NONE	SHEET ____ OF ____
DESIGNED BY:	DRAWN BY:	CHECKED BY:

PLOT DATE:
12/26/2025 11:31:32 AM
EMPLATE (VERSION: 23.0.4

HKS

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MEP

SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

STRUCTURAL

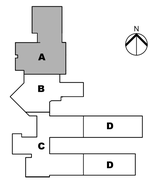
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

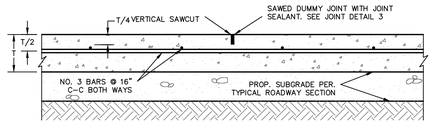
SHEET TITLE
SIDEWALK DETAILS 2

SHEET NO.
C2.02

AMANDA NUMBER: 2026 006578 SP

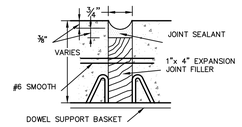
MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT, SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
PHONE - (817) 732-9839
FAX - (817) 732-9841
MJT NO. - 921-002A

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SAWED DUMMY JOINT

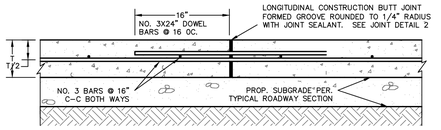
NOT TO SCALE



JOINT DETAIL NO. 1

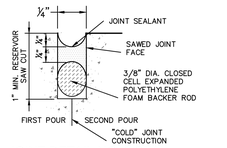
SEAL FOR DOWELED EXPANSION JOINT

NOT TO SCALE



TRANSVERSE OR LONGITUDINAL CONSTRUCTION BUTT JOINT

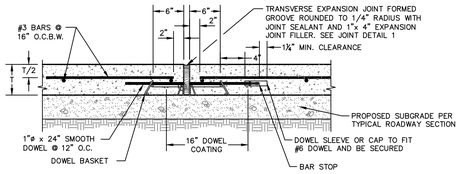
NOT TO SCALE



JOINT DETAIL NO. 2 SEAL

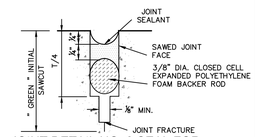
FOR LONGITUDINAL AND TRANSVERSE CONSTRUCTION BUTT JOINT

NOT TO SCALE



DOWELED EXPANSION JOINT

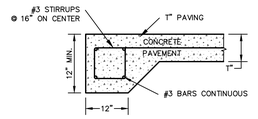
NOT TO SCALE



JOINT DETAIL NO. 3 SEAL FOR

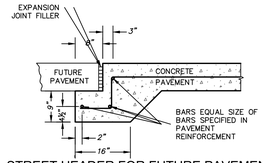
SAWED DUMMY JOINT

NOT TO SCALE



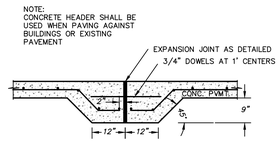
THICKENED EDGE DETAIL

NOT TO SCALE



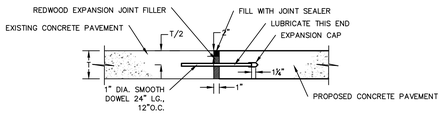
STREET HEADER FOR FUTURE PAVEMENT

NOT TO SCALE



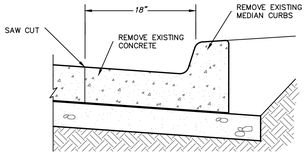
CONCRETE HEADER

NOT TO SCALE



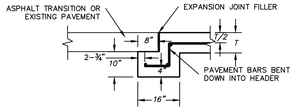
TYPICAL TIE-IN TO EXISTING CONCRETE PAVEMENT DETAIL

NOT TO SCALE



PAVEMENT CUT SECTION

NOT TO SCALE

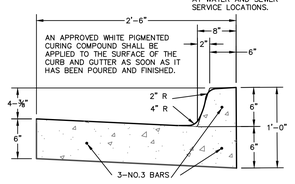


NOTE: PAVEMENT AND HEADER TO BE POURED MONOLITHICALLY

PAVEMENT HEADER

NOT TO SCALE

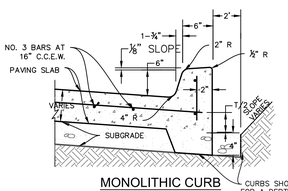
NOTE: CURB SHALL BE STAMPED WITH A "W" OR "S" (2" MIN.) AT WATER AND SEWER SERVICE LOCATIONS.



TYPICAL SECTION STANDARD 30"

CONCRETE CURB AND GUTTER

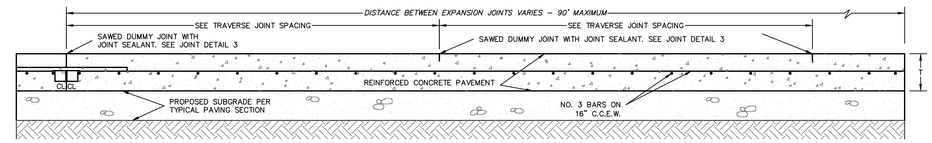
NOT TO SCALE



MONOLITHIC CURB

NOT TO SCALE

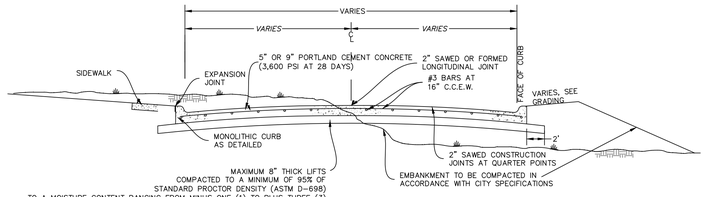
CURBS SHOULD BE EXTENDED INTO THE UNDERLYING SUGRADE FOR A DEPTH OF AT LEAST 4 INCHES AS SPECIFIED IN THE GEOTECHNICAL REPORT ADDENDUM.



LONGITUDINAL PAVING SECTION

NOT TO SCALE

ALL SEALANT FOR PAVING AND SIDEWALKS SHALL BE SILICONE JOINT SEALANT (TYP.)



TYPICAL PAVEMENT SECTION

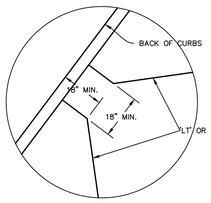
5" OR 9" PORTLAND CEMENT CONCRETE

(WIDTH VARIES PER PLAN)

NOT TO SCALE

MISCELLANEOUS CONCRETE ITEMS:

CONTRACTOR SHALL FILL-IN ALL HOLES, OPENINGS AND TRENCH REPAIR LEFT IN CONCRETE STRUCTURES OR PAVEMENT FOR PASSAGE OF WORK BY OTHER TRADES NOT SPECIFIED ON THE PLANS, AFTER WORK OF OTHER TRADES IS COMPLETED. MIX, PLACE, AND CURE CONCRETE AS HEREIN SPECIFIED, TO BLEND WITH IN-PLACE CONSTRUCTION. PROVIDE OTHER MISCELLANEOUS CONCRETE FILLING SHOWN OR REQUIRED AS INTERPRETED BY THE ENGINEER OR ARCHITECT TO COMPLETE THE WORK. COMPLETED WORK SHALL RESULT IN A FULLY FUNCTIONAL PROJECT WITH NO HOLES, OPENINGS OR GAPS IN PAVING/STRUCTURES.



TYPICAL JOINTING AT ALL ANGLE JOINT TERMINATIONS

NOT TO SCALE

PAVEMENT JOINTING NOTES:

1. SAW CUTTING SHALL BE DONE WITHIN 8 HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT, AND PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
2. "LT" JOINTS SHALL BE REQUIRED AT THE END OF A DAY'S WORK, UNLESS IT ENDS AT A 'DE', 'E', 'L', OR 'T' JOINT SHOWN ON THE PLANS.
3. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
4. RADIAL JOINTS SHALL BE NO SHORTER THAN 18".
5. CONTRACTOR SHALL USE AN 'E' JOINT AROUND THE PERIMETER OF ANY BLOCKOUT IN THE CONCRETE PAVING.
6. ALL CONSTRUCTION JOINTS SHALL BE SAWED, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED.
7. ODD SHAPED PANELS SHALL BE REINFORCED WITH #4 BARS AT 12" EACH WAY. AN ODD SHAPED PANEL IS CONSIDERED TO BE ONE IN WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE OR RECTANGULAR.

GENERAL NOTES

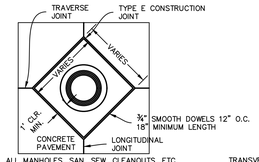
1. ON CONCRETE STREETS ALL INLETS SHALL BE SEPARATED FROM THE PAVEMENT AND CURB BY BOXING OUT AROUND INLET AS SHOWN. EXPANSION JOINT MATERIAL SHALL EXTEND COMPLETELY THROUGH CURB AND SLAB. MANHOLE CASTINGS WITHIN THE PAVEMENT LIMITS SHALL BE BOXED IN LIKE MANNER EXCEPT WHEN TELESCOPING-TYPE CASTINGS AND FIBERGLASS-TYPE ARE USED. WHEN A JOINT FALLS WITHIN 5' OF OR CONTACTS INLETS, MANHOLES OR OTHER STRUCTURES, SHORTEN ONE OR MORE PANELS EITHER SIDE OF OPENING TO PERMIT JOINT TO FALL ON ROUND STRUCTURES AND AT OR BETWEEN CORNERS OF RECTANGULAR STRUCTURES.
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS. REINFORCING STEEL SHALL BE PLACED WITH THE CENTER OF THE OUTSIDE LAYER OF BARS 2" FROM THE SURFACE OF THE CONCRETE.
3. WHERE REINFORCING BARS ARE SPLICED, A 40 DIAMETER LAP SHALL BE USED.
4. TYPE C TRANSVERSE CONTRACTION JOINTS SHALL BE ON 12' CENTERS.
5. ALL CONCRETE SHALL BE CLASS "A" CONCRETE.
6. AN APPROVED WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE SURFACE OF THE CONCRETE AS SOON AS IT HAS BEEN POURED AND FINISHED.
7. DOWELS TO BE 12" O.C. WHEN POURED HALF STREET.
8. SUBGRADE STABILIZATION WILL DEPEND ON SOIL REPORT SUBMITTED TO CITY ENGINEER.
9. SEAL ALL VOIDS AND HONEYCOMBS AT ALL CURBS BEFORE PLACING BACKFILL.
10. NO SAND SHALL BE USED UNDER ANY PAVEMENT – NO EXCEPTIONS

NOTE: SEE PAVING PLAN FOR PAVEMENT TYPE AND THICKNESS

NOTE: AN APPROVED WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE SURFACE OF THE CURB AS SOON AS IT HAS BEEN POURED AND FINISHED.

NOTE: EXPANSION JOINTS SHALL BE CONSTRUCTED ON MAXIMUM OF 90' CENTERS, LOCATED AT ALL STRUCTURES, AT ALL INTERSECTION POINTS OF CURVATURE, AT ALL INTERSECTION POINTS OF TANGENCY, AND AT ALL REDUCTIONS OF PAVEMENT WIDTHS.

SAWED TRAVERSE CONTRACTION LONGITUDINAL JOINTS SHALL BE SPACED 12' IN PAVEMENT

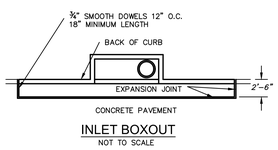


ALL MANHOLES, SAN. SEW. CLEANOUTS, ETC.

CONCRETE BLOCKOUT

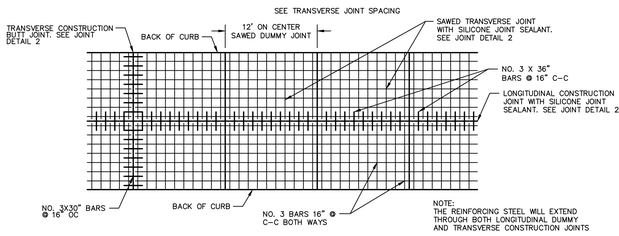
AT SITE STRUCTURES

NOT TO SCALE



INLET BOXOUT

NOT TO SCALE



PLAN OF STEEL LAYOUT

NOT TO SCALE

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC

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REGISTRATION NO. F-9435

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STRUCTURAL

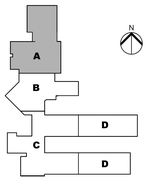
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER

26399.005

DATE

04/27/26

ISSUE

BID SET

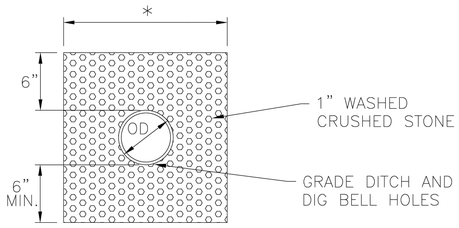
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PAVING DETAILS

SHEET NO.

C2.03

PLOT DATE: 12/26/2025 11:31:32 AM EMPLATE VERSION 23.0.4



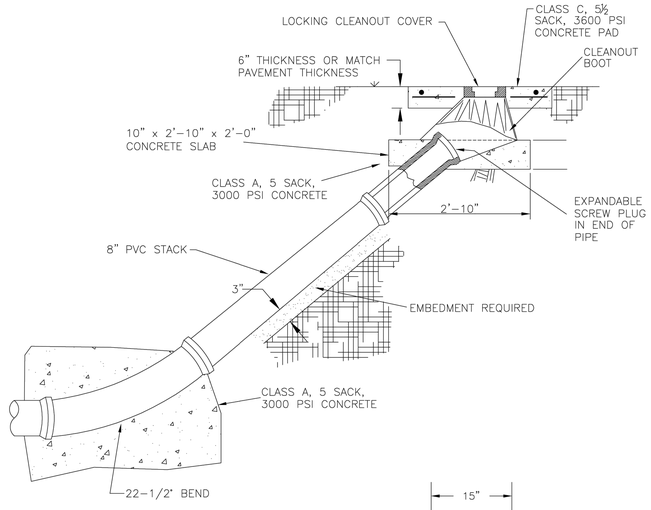
CLASS "B" EMBEDMENT
TYPICAL SANITARY SEWER MAIN

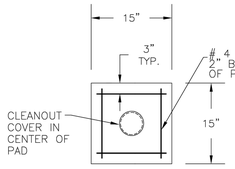
* PIPE WITH BELLS	MIN. TRENCH WIDTH *	MAX. TRENCH WIDTH *
6"–30"	OD + 12"	OD + 16"
36" & LARGER	OD + 16"	OD + 24"
* PIPE WITH SLEEVES SOCKETS OR COUPLINGS		
4"–12"	OD + 12"	OD + 16"
15" & LARGER	OD + 16"	OD + 21"

CITY OF ARLINGTON, TEXAS

CLASS "B" SEWER EMBEDMENT

DATE: 01/09/2018





CONCRETE CLEANOUT PAD

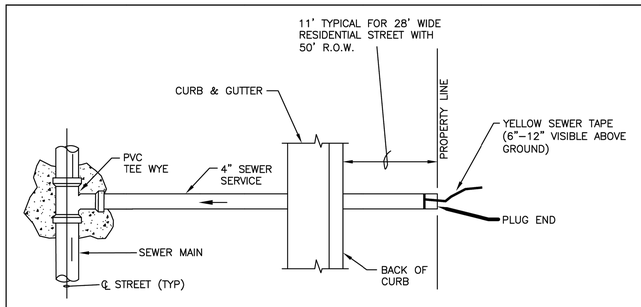
NOTES:

1. CLEANOUTS ARE NOT PERMITTED FOR USE UNLESS APPROVED BY CITY.
2. PROVIDE CLEANOUT PAD ON EVERY CLEANOUT.
3. THE SIZE OF THE CLEANOUT MUST BE EQUAL TO THE SIZE OF THE WASTEWATER COLLECTION SYSTEM MAIN.
4. CLEANOUTS SHALL NOT BE ALLOWED ON SANITARY SEWER MAINS 10" OR GREATER IN DIAMETER.
5. NO SERVICES ALLOWED ON STACK.

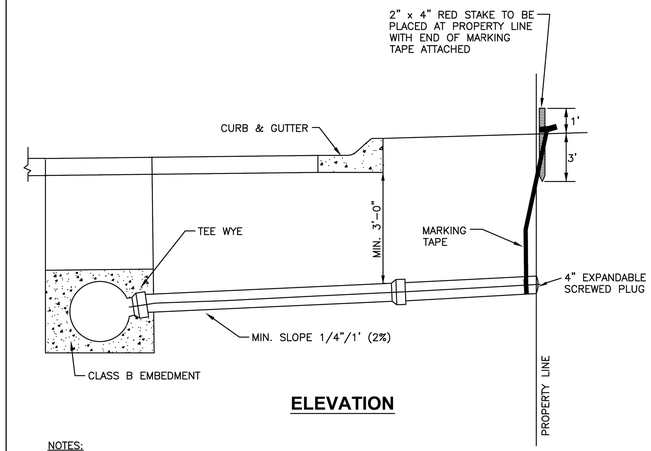
CITY OF ARLINGTON, TEXAS

SANITARY SEWER CLEANOUT

DATE: 01/09/2018



PLAN



ELEVATION

NOTES:

1. SERVICES WITH LESS THAN 2' CLEARANCE UNDER AN EXISTING OR PROPOSED STORM DRAIN REQUIRE CONCRETE ENCASEMENT OR STEEL CASING.
2. SERVICES SHALL BE SDR–26 PVC PIPE WITH CLASS B EMBEDMENT.
3. NEW SERVICE TAPS ON EXISTING MAINS REQUIRE INSERTA–TEE CONNECTION OR APPROVED EQUAL.
4. SERVICES 8" AND LARGER REQUIRE A MANHOLE TO CONNECT TO MAIN. UNLESS OTHERWISE APPROVED BY WATER UTILITIES.

CITY OF ARLINGTON, TEXAS

SANITARY SEWER SERVICE

DATE: 01/08/2023

AMANDA NUMBER: 2026 006578 SP

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MJT NO. - 921-002A

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STRUCTURAL

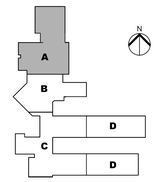
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

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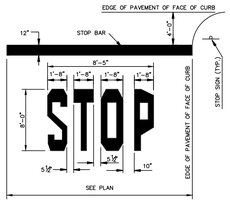
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04/27/26

ISSUE
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SHEET TITLE
SANITARY SEWER DETAILS

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C2.04

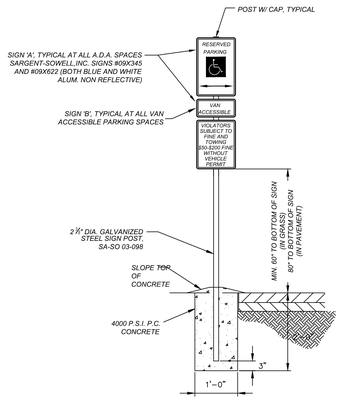
PLOT DATE: 12/26/2025 11:31:32 AM EMPLATE VERSION 23.0.4



NOTE:
1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS AND BAR ARE TO BE PAINTED REFLECTIVE WHITE.

STOP BAR

N.T.S.
12/17/04



SIGNAGE DETAIL FOR ACCESSIBLE PARKING

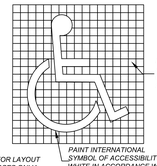
NOT TO SCALE



COLORS:
LEGEND AND BORDER:GREEN
BACKGROUND: WHITE
SYMBOL: WHITE ON BLUE BACKGROUND



COLORS:
LEGEND AND BORDER: GREEN
BACKGROUND: WHITE



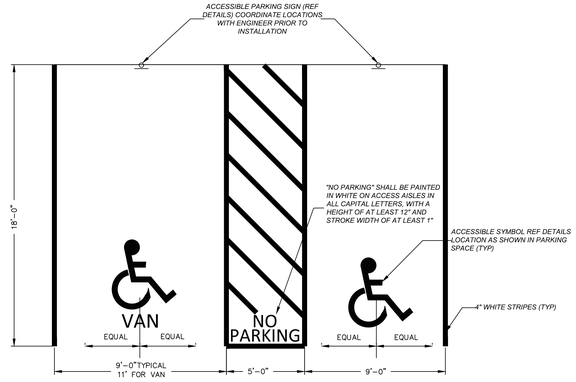
NOTE:
GRID FOR LAYOUT PURPOSES ONLY.

PAINT BLUE BACKGROUND IN ACCORDANCE WITH "STATE OF TEXAS ACCESSIBILITY STANDARDS"

PAINT INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE IN ACCORDANCE WITH "STATE OF TEXAS ACCESSIBILITY STANDARDS"

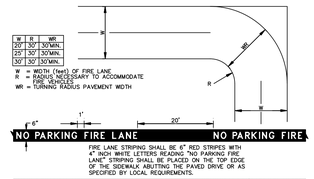
ACCESSIBLE SYMBOL DETAIL

NOT TO SCALE



HANDICAP PARKING SPACE DETAIL

NOT TO SCALE



FIRE LANE STRIPING SHALL BE 6" RED STRIPES WITH 4" INCH WHITE LETTERS READING "NO PARKING FIRE LANE" STRIPING SHALL BE PLACED ON THE TOP EDGE OF THE SIDEWALK ABUTTING THE PAVED DRIVE OR AS SPECIFIED BY LOCAL REQUIREMENTS.

NO PARKING FIRE LANE NO PARKING FIRE

FIRE LANE MARKING

FIRE LANES

FIRE LANES SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 24 FEET OR 26 FEET WHEN LOCATED WITHIN 35 FEET OF ANY STRUCTURE IN EXCESS OF 36 FEET IN HEIGHT. AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES IS REQUIRED.

FIRE LANE STRIPING:
WHERE RED STRIPE INTERSECTS WITH A CURB LINE, PAINT FACE AND TOP OF CURB RETURN.

PAINT 4 INCH HIGH LETTERING WITH A 1 INCH STROKE CENTERED ON RED STRIPE SHALL READ: "NO PARKING" - "FIRE LANE". THIS LETTERING SHALL BE PAINTED EVERY 20 FEET AS MEASURED FROM THE END OF ONE LETTERING GROUP TO THE BEGINNING OF THE NEXT GROUP WITH A 1 FOOT SPACE BETWEEN "NO PARKING" AND "FIRE LANE". (NOTE: QUOTES ARE USED IN THIS DESCRIPTION FOR EMPHASIS ONLY AND ARE NOT TO BE PAINTED WITH THE LETTERING)



COLORS:
BORDER: WHITE
BACKGROUND: RED
TEXT: WHITE



COLORS:
BORDER: WHITE
BACKGROUND: BLACK
TEXT: WHITE

B



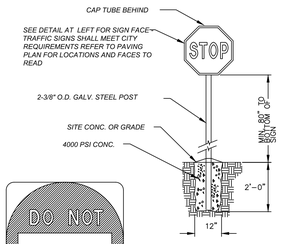
COLORS:
BORDER: WHITE
BACKGROUND: BLACK
TEXT: WHITE

D



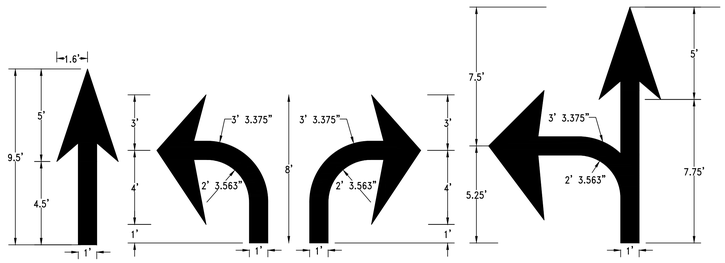
COLORS:
BORDER: WHITE
BACKGROUND: RED
TEXT: WHITE

C



ROAD SIGNS

NOT TO SCALE



NOTE: ALL TRAFFIC FLOW ARROWS TO BE REFLECTIVE YELLOW PAINT PER SPECS.

SMALLER SIZES MAY BE REDUCED BY APPROXIMATELY ONE-THIRD FOR LOW-SPEED URBAN CONDITIONS

TRAFFIC FLOW ARROW

N.T.S.

ALL STRIPING SHALL BE INSTALLED TO CURRENT TEXAS MUTCD STANDARDS AND SPECIFICATIONS

AMANDA NUMBER: 2026 006578 SP

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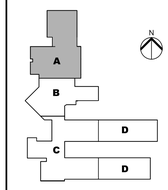
STRUCTURAL
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WIMBISH WORLD LANGUAGE ACADEMY

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04/22/2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005

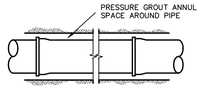
DATE
04/27/26

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SHEET TITLE
SIGNAGE & STRIPING DETAILS

SHEET NO.
C2.05

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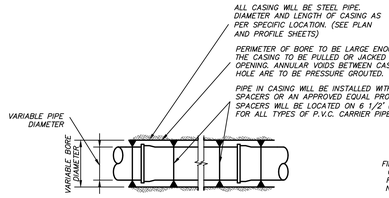


LONGITUDINAL VIEW - BORE WITH PIPE INSTALLED

NOTE:
1. BORINGS UNDER ROADWAYS SHALL CONFORM TO THE TEXAS STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION UTILITY ACCOMMODATION MANUAL.
2. SEE PLAN AND PROFILE FOR LIMITS OF BORE.
3. COMPRESSION TYPE JOINTS TO BE USED IF POSSIBLE.
4. IF COMPRESSION TYPE JOINT NOT USED THEN M.J. TYPE SHALL BE USED AND JOINTS BOLTED BEFORE PULLING PIPE INTO PLACE.

DETAILS FOR PIPE INSTALLATION BY BORING

NOT TO SCALE

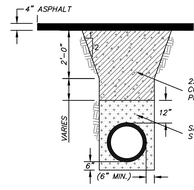


LONGITUDINAL VIEW - BORE WITH CASING AND PIPE INSTALLED

NOTE:
1. BORINGS UNDER ROADWAYS SHALL CONFORM TO THE TEXAS DEPT. OF TRANSPORTATION UTILITY ACCOMMODATION MANUAL.
2. SEE PLAN AND PROFILE FOR LIMITS OF BORE.
3. COMPRESSION TYPE JOINTS TO BE USED IF POSSIBLE.
4. IF COMPRESSION TYPE JOINT NOT USED THEN M.J. TYPE SHALL BE USED AND JOINTS BOLTED BEFORE PULLING PIPE INTO PLACE.

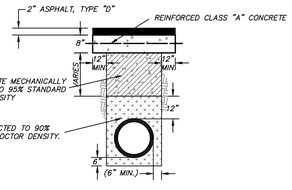
CASING AND CARRIER - BORING DETAILS

NOT TO SCALE



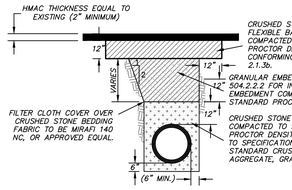
NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

RESIDENTIAL STREET



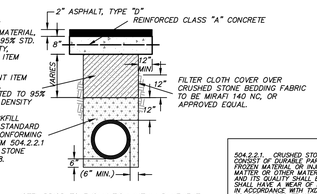
NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

COLLECTOR STREET



NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

TYPE 1

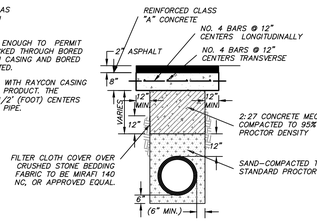


NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

TYPE 2

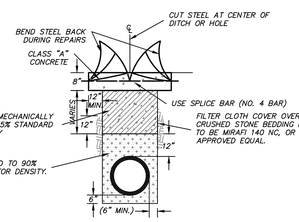
504.2.2.1 - CRUSHED STONE EMBEDMENT. THE AGGREGATES SHALL CONSIST OF DURABLE PARTICLES OF CRUSHED STONE, FREE FROM FROZEN MATERIAL OR INJURIOUS AMOUNTS OF SALT, ALKALI, ORGANIC MATTER OR OTHER MATERIAL EITHER FREE OR AS ADHERENT COATING, AND ITS QUALITY SHALL BE REASONABLY UNIFORM THROUGHOUT IT SHALL HAVE A MINIMUM OF 90 PERCENT RETAINED ON NO.4 SIEVE WHEN TESTED IN ACCORDANCE WITH TXDOT TEST METHOD TEX-410-A ABRASION OF COARSE AGGREGATE USING THE LOS ANGELES MACHINE.

504.2.2.2 - GRANULAR MATERIAL. GRANULAR MATERIAL SHALL BE FREE FLOWING, SUCH AS SAND OF HYDRAULICALLY GRADED CRUSHED STONE SHALL BE WASHED SAND, GRAVEL OR SANDY LOAM. THE MATERIAL SHALL BE FREE FROM ANY PARTICLES STORES OVER TWO INCHES IN DIAMETER, CLAY AND ORGANIC MATTER.



NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

MAJOR ARTERIALS AND THOROUGHFARES

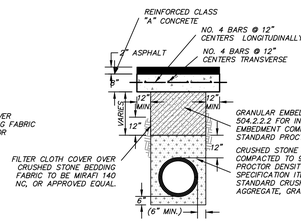


NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

CONCRETE STREET

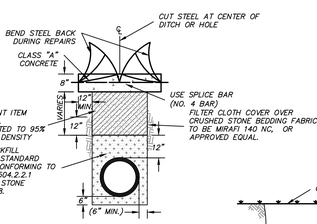
TYPICAL STREET-CUT BACKFILL FOR WATER PIPE INSTALLATION

NOT TO SCALE



NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS. ALL EDGES MUST BE SQUARED OFF BEFORE REPAVING.

TYPE 3

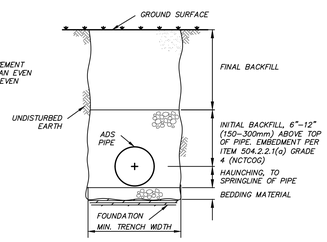


NOTE: PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR WILL SAW CUT AN EVEN LINE TO INSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS.

TYPE 4

TYPICAL PAVEMENT REPAIR DETAILS FOR SEWER PIPE INSTALLATION

NOT TO SCALE



TYPICAL HDPE "ADS" TRENCH CROSS-SECTION

NOT TO SCALE

NOTES:

1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I ONLY AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

   UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"–24" (100–600mm) AND 42"–48"(1050–1200mm) CORRUGATED POLYETHYLENE PIPE (CPEP); 6" (150mm) FOR 30"–36" (750–900mm) CPEP.
3. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I ONLY AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL ø IN (mm)	MIN. RECOMMENDED TRENCH WIDTH, in (mm)
4 (100)	21 (530)
6 (150)	23 (580)
8 (200)	25 (630)
10 (250)	28 (710)
12 (300)	31 (790)
15 (375)	34 (860)
18 (450)	39 (990)
24 (600)	48 (1220)
30 (750)	66 (1680)
36 (900)	78 (1980)
42 (1050)	83 (2110)
48 (1200)	89 (2260)
60 (1500)	102 (2590)

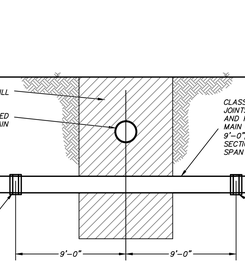
5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED * COVER, in (mm)
H25 (FLEXIBLE PAVEMENT)	12 (300)
H25 (RIGID PAVEMENT)	12 (300)
E80 RAILWAY	24 (610)
HEAVY CONSTRUCTION	48 (1220)

*TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION

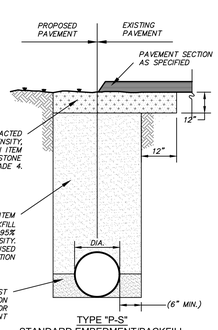
TRENCH INSTALLATION DETAIL

NOT TO SCALE



TYPE "S"
STANDARD EMBEDMENT/BACKFILL

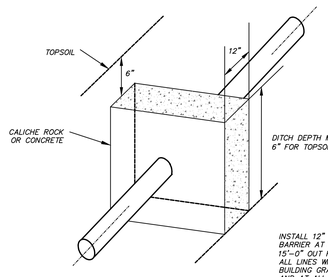
THE STANDARD EMBEDMENT DETAIL RELATES TO INSTALLATIONS OUT FROM UNDER PAVEMENT OR ROADWAY BASE SUCH AS CROSS-COUNTRY EASEMENT PARKWAYS OR ANY LOCATIONS NOT SUBJECT TO PROPOSED STREET PAVEMENT.



TYPE "P-S"
STANDARD EMBEDMENT/BACKFILL
FOR EXISTING AND PROPOSED PAVEMENT

TYPICAL STREET-CUT BACKFILL FOR WATER PIPE INSTALLATION

NOT TO SCALE



IMPERVIOUS BARRIER

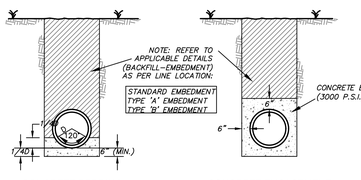
NOT TO SCALE

SEWER AT WATER CROSSINGS & TRENCH SPANS

NOT TO SCALE

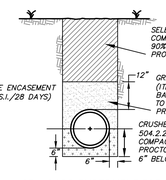
REINFORCED CONCRETE PIPE EMBEDMENT DETAILS

NOT TO SCALE

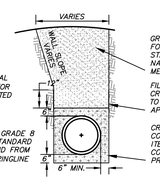


CONCRETE BEDDING
WATER AND SEWER

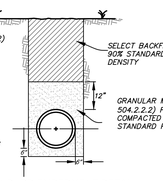
CONCRETE ENCASEMENT
WATER AND SEWER



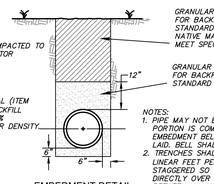
STANDARD EMBEDMENT FOR
SEWER LINE NOT IN R.O.W.



EMBEDMENT WITHIN
RIGHT-OF-WAY SEWER LINE



STANDARD EMBEDMENT DETAIL
FOR WATER LINE NOT IN R.O.W.



EMBEDMENT DETAIL
WATER LINE

NOTES:
1. PIPE MAY NOT BE FILLED ABOVE SPRING LINE UNTIL LOWER PORTION IS COMPACTED TO 95% STANDARD PROCTOR DENSITY. EMBEDMENT BELOW PIPE SHALL BE COMPACTED BEFORE PIPE IS LAID. BELL SHALL BE DUG OUT.
2. TRENCHES SHALL BE TESTED AT THE RATE OF ONE TEST PER 300 LINEAR FEET PER 12 INCH LIFT (LOOSE). TESTS SHALL BE STAGGERED SO THAT TESTS OF ADJACENT LIFTS ARE NOT DIRECTLY OVER THAT OF THE PREVIOUS LIFT. IF THE DISTANCE BETWEEN MANHOLES EXCEEDS 300 FT., A MINIMUM OF TWO TESTS SHALL BE REQUIRED.
3. EMBEDMENT WITHIN RIGHT-OF-WAY WILL BE USED WHEN INSTALLING UTILITY LINES WITHIN STREET RIGHT-OF-WAYS, AND UNDER PAVEMENT. ALL OTHER INSTALLATION LOCATIONS, SUCH AS IN EASEMENTS OR CROSS COUNTRY LOCATIONS WILL COMPLY WITH STANDARD EMBEDMENT DETAILS.

EMBEDMENT DETAILS FOR P.V.C. PIPE

NOT TO SCALE

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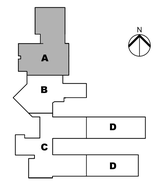
STRUCTURAL
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER

04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
EMBEDMENT DETAILS

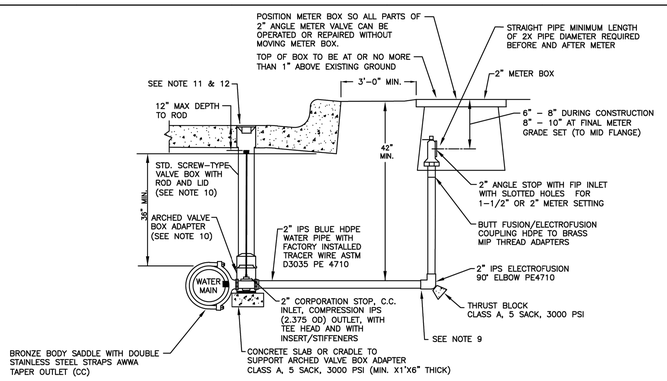
SHEET NO.
C2.06

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT. SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
PHONE - (817) 732-9839
FAX - (817) 732-9841
MJT NO. - 921-002A

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PLOT DATE: 12/26/2025 11:31:32 AM EMPLATE VERSION 23.0.4

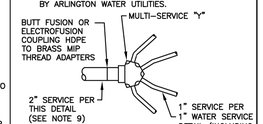


ELEVATION
NOT TO SCALE

NOTES:

1. SADDLES SHALL BE BRONZE BODY WITH DOUBLE STAINLESS STEEL STRAPS WHEN TAPPING ANY MAIN. AWWA C800 SADDLE MUST BE DESIGNED FOR PIPE MATERIAL BEING TAPPED.
2. SERVICES SHALL BE CONTINUOUS WITH NO JOINTS FROM CORPORATION STOP TO BALL VALVE (IF APPLICABLE), BALL VALVE TO ELBOW, AND ELBOW TO ANGLE VALVE. IF COPPER, JOINT TO BE OUTSIDE PAVEMENT.
3. ALL COPPER FITTINGS SHALL BE COMPRESSION FITTINGS WITH LINER/STIFFENER (STAINLESS STEEL MUST BE A STIFFENER RECOMMENDED BY COMPRESSION FITTINGS MANUFACTURER).
4. METERS SHALL NOT BE INSTALLED IN EXISTING OR PROPOSED SIDEWALK OR WITHIN 5' OF DRIVEWAYS.
5. GATE VALVES SHALL BE INSTALLED OUTSIDE NORMAL TIRE PATH OF LANE WHEN IN PAVED ROADWAYS.
6. TAPS SHALL BE ON SAME SIDE AS METER AND PERPENDICULAR TO THE RIGHT OF WAY.
7. CONTRACTOR SHALL REMOVE ALL SAND OVER FITTINGS & INSTALL 2" METER BOX FROM CITY'S APPROVED PRODUCT LISTING PRIOR TO REQUESTING METER INSTALLATION.
8. USE 2"X1" FLANGED REDUCER IF REDUCING TO 1" METER & INSTALL 1" METER BOX FROM CITY'S APPROVED PRODUCT LISTING PRIOR TO REQUESTING METER INSTALLATION.
9. WHEN REQUIRED, INSTALL MULTI-SERVICE "Y" PRIOR TO ELBOW. THE ELBOW, VERTICAL PIPE, AND ANGLE STOP ARE NOT REQUIRED IN THIS INSTANCE.
10. UNLESS OTHERWISE STATED ON CONSTRUCTION PLANS ALL MATERIALS UTILIZED MUST BE ON THE ARLINGTON WATER UTILITIES APPROVED PRODUCT LISTING.
11. NO ROD REQUIRED FOR INSTALLATION WHICH WILL BE DIRECTLY FOLLOWED BY PAVEMENT SUBGRADE MANIPULATION. ROD REQUIRED AT ALL OTHER LOCATIONS INCLUDING PAVEMENT REPAIR.
12. CURB BOXES SHALL INCLUDE A 1'X1' CONCRETE PAD WHEN INSTALLED WITHIN ASPHALT PAVEMENT. THE COVER SHALL BE CENTERED WITHIN THE CONCRETE PAD. PAD SHALL MATCH PAVEMENT THICKNESS. NO CONCRETE PAD REQUIRED IN UNPAVED AREA UNLESS OTHERWISE SPECIFIED.
13. TRACER WIRE SHALL BE 10 AWG (AVERAGE WIRE GRADE). HDPE COATED SINGLE STRAND COPPER CLAD STEEL TO BE INSTALLED CONTINUOUSLY (NO SPLICING ALLOWED) FROM THE WATER MAIN TO THE METER BOX. 8" EXPOSED IN THE METER BOX ABOVE ANGLE STOP.
14. TYPE "K" HARD COPPER SERVICES TO BE USED FOR GAS STATIONS AND OTHER SITES WHICH USE GASOLINE AND OTHER HYDROCARBONS.
15. FUSIONS MUST BE PREFORMED BY CERTIFIED HDPE FUSION OPERATOR.

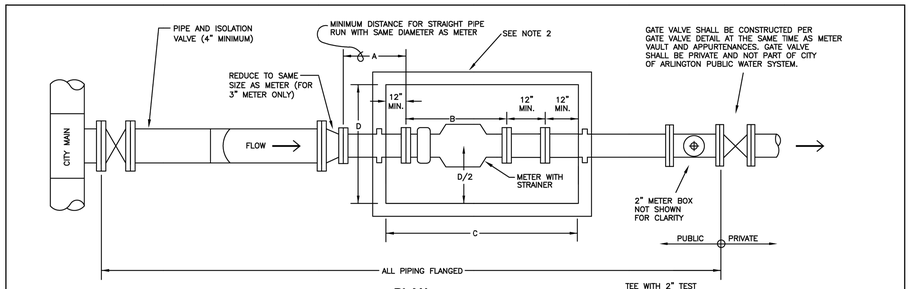
MULTI-SERVICE "Y" INSTALLATIONS MAY BE PERMITTED UPON REVIEW BY ARLINGTON WATER UTILITIES.



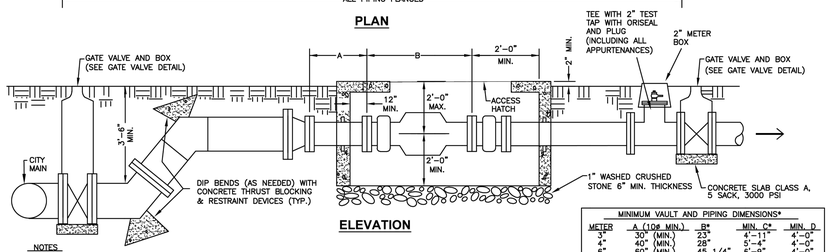
CITY OF ARLINGTON, TEXAS

2" WATER SERVICE (FOR 2" & 1.5" OUTLETS)

DATE: 01/06/2023



PLAN



ELEVATION

NOTES

1. PIPING & BENDS IN METER VAULT SHALL BE FLANGED DUCTILE IRON, CLASS 350. OTHER PIPING & FITTINGS SHALL BE RESTRAINED MJ OR FLANGED DUCTILE IRON.
2. CONTACT METER SERVICES MGR. @ 817-459-5900 FOR CURRENT INFORMATION ON METERS & VAULTS PRIOR TO DESIGN OF METER FACILITY. VAULTS MAY BE CONSTRUCTED OF CAST-IN-PLACE OR PRECAST CONCRETE OR PLASTIC AS APPROVED BY THE CITY.
3. CONTRACTOR SHALL PURCHASE METER, STRAINER, & 2" METER BOX FROM CITY.
4. METER VAULT SHALL NOT BE INSTALLED IN EXISTING OR PROPOSED SIDEWALKS, DRIVEWAYS, PAVEMENTS OR ANY TRAFFIC AREAS.
5. ACCESS HATCH FOR METER VAULT SHALL BE 3'-6" X 3'-6" AS MANUFACTURED BY BILCO OR APPROVED EQUAL. HATCH SHALL BE LOCATED FOR EASE OF ENTRY AND ACCESS TO METER.
6. TOP OF VAULT SHALL BE 2" ABOVE GROUND WITH DRAINAGE SLOPING DOWN AWAY FROM VAULT.
7. METER BYPASSES ARE ONLY ALLOWED ON ONE-WAY FEEDS.
8. STRAIGHT PIPE MINIMUM LENGTH OF 2X PIPE DIAMETER REQUIRED BEFORE AND AFTER METER.

MINIMUM VAULT AND PIPING DIMENSIONS*

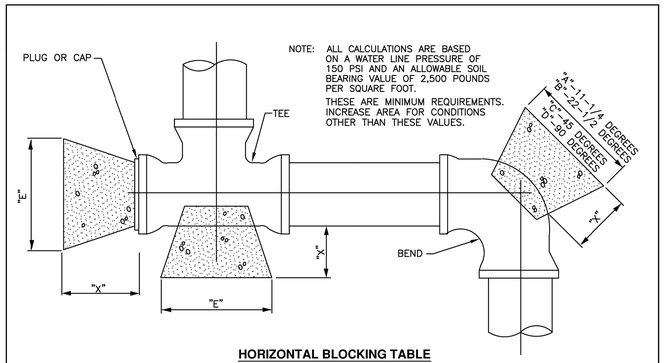
METER	A (10# MIN.)	B*	MIN. C*	MIN. D
3"	30" (MIN.)	23"	4'-11"	4'-0"
4"	40" (MIN.)	28"	5'-4"	4'-0"
6"	60" (MIN.)	45 1/4"	6'-9"	4'-0"
8"	80" (MIN.)	52"	7'-4"	4'-6"
10"	100" (MIN.)	67 1/4"	8'-7"	4'-6"

*SEE NOTE 2. METER LENGTH (B) MAY CHANGE ANNUALLY AND WILL AFFECT MIN. VAULT LENGTHS (C). DIMENSIONS SHOWN ARE FOR DOMESTIC METERS ONLY. IRRIGATION METERS HAVE SHORTER DIMENSIONS.

CITY OF ARLINGTON, TEXAS

METER VAULT

DATE: 01/06/2023



HORIZONTAL BLOCKING TABLE

PIPE SIZE	"X" DIM. IN. FT.	11-1/4 DEGREES "A"	11-1/4 DEGREES MIN. AREA	22-1/2 DEGREES "B"	22-1/2 DEGREES MIN. AREA	45 DEGREES "C"	45 DEGREES MIN. AREA	90 DEGREES "D"	90 DEGREES MIN. AREA	TEE & PLUG "E"	TEE & PLUG MIN. AREA
4"	1.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	1.00	1.00
6"	1.5	1.00	1.00	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.5	1.00	1.00	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.5	1.00	1.00	1.35	1.84	1.90	3.61	2.58	6.66	2.17	4.71
12"	1.5	1.00	1.33	1.63	2.65	1.86	5.19	3.10	9.60	2.61	6.79
14"	1.5	1.03	1.81	1.90	3.60	2.66	7.07	3.61	13.06	3.04	9.24
16"	2.0	1.18	2.36	2.17	4.71	3.04	9.23	4.13	17.06	3.47	12.06
18"	2.0	1.33	2.99	2.44	5.96	3.42	11.69	4.65	21.59	3.91	15.27
20"	2.0	1.48	3.70	2.71	7.35	3.80	14.43	5.16	26.66	4.34	18.85
21"	2.0	1.55	4.07	2.85	8.11	3.99	15.91	5.42	29.39	4.56	20.78
24"	2.0	1.77	5.32	3.25	10.59	4.56	20.77	6.20	38.39	5.21	27.14
27"	2.5	1.99	6.73	3.66	13.40	5.13	26.29	6.97	48.58	5.86	34.35
30"	2.5	2.22	8.31	4.07	16.55	5.70	32.46	7.74	59.98	6.51	42.41
33"	2.5	2.44	10.06	4.47	20.02	6.27	39.28	8.52	72.57	7.16	51.31
36"	2.5	2.66	11.97	4.88	23.83	6.84	46.74	9.29	86.37	7.81	61.07
39"	3.0	2.88	14.05	5.29	27.97	7.41	54.86	10.07	101.36	8.47	71.68
42"	3.0	3.10	16.30	5.69	32.43	7.98	63.62	10.85	117.56	9.12	83.13

NOTE: CLASS A, 5 SACK, 3000 PSI CONCRETE SHALL BE USED FOR ALL BLOCKING UNLESS OTHERWISE NOTED ON STANDARD DETAILS OR PLANS.

THE MINIMUM VERTICAL DIMENSION OF ALL BLOCKING SHALL BE 1.5 TIMES THE PIPE DIAMETER WITH AT LEAST 0.75 TIMES THE PIPE DIAMETER EXTENDING BOTH ABOVE AND BELOW THE PIPE CENTERLINE. THIS DIMENSION DETERMINES THE "A" DIMENSION FOR 11-1/4" BENDS.

FOR 22-1/2 , 45 , 90 , AND TEES AND PLUGS, THE VERTICAL DIMENSION SHALL BE EQUAL TO THE HORIZONTAL DIMENSION SHOWN TO PRODUCE THE REQUIRED MINIMUM AREA.

ALL MINIMUM AREAS ARE IN SQUARE FEET.

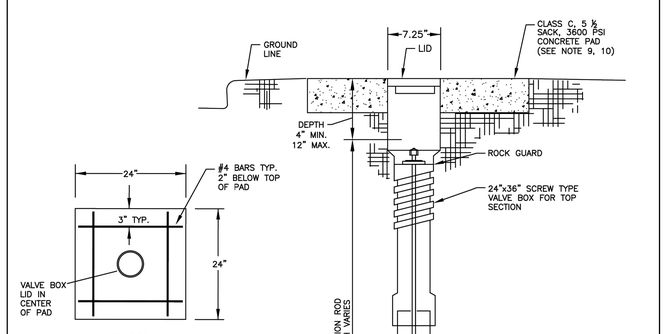
BLOCKING TO BE AGAINST UNDISTURBED TRENCH WALLS AND BOTTOM.

AS A MINIMUM, ALL PIPE FITTINGS IN PRESSURE SITUATIONS SHALL ALSO BE RESTRAINED BY AN APPROVED THRUST RESTRAINT DEVICE.

CITY OF ARLINGTON, TEXAS

HORIZONTAL THRUST BLOCK

DATE: 01/09/2018



PLAN
CONCRETE PAD
N.T.S.

ELEVATION
NOT TO SCALE

NOTES

1. END OF THE EXTENSION SHALL HAVE AN OPERATING NUT IDENTICAL IN SIZE, STYLE, AND POSITION AS THE OPERATING NUT ON VALVE WITH NO CLIP ON EXTENSIONS. ROCK GUARD SHALL BE ATTACHED TO THE EXTENSION AND LOCATED 2" BELOW THE OPERATING NUT ON THE UPPER END OF THE EXTENSION.
2. VALVES SHALL BE RESTRAINED BY AN APPROVED THRUST RESTRAINT DEVICE. RESTRAIN VALVE TO NEAREST FITTING WHERE APPLICABLE, UNLESS OTHERWISE NOTED ON PLANS.
3. VALVES SHALL BE SET ON CONCRETE SLAB PRIOR TO POURING CONCRETE BLOCKING. VALVE WEIGHT SHALL NOT BE SUPPORTED BY THE CONNECTING PIPE.
4. VALVES SHALL NOT BE INSTALLED IN EXISTING OR PROPOSED SIDEWALKS OR CURBS.
5. VALVES SHALL BE INSTALLED IN CENTER OF LANES AND OUTSIDE NORMAL TIRE PATH OF LANE WHEN IN PAVED ROADWAYS UNLESS OTHERWISE SHOWN ON THE PLANS.
6. AFTER COMPACTION OF BACKFILL MATERIAL AROUND INSTALLED VALVE BOX, CONTRACTOR SHALL VERIFY THE VALVE IS IN A VERTICAL POSITION FOR EASE OF OPERATION.
7. INSTALL CITY FURNISHED VALVE MARKERS FOR EACH VALVE TO THE FACE OF CURB USING MANUFACTURER RECOMMENDED ADHESIVE. (SEE "WATER LINE MARKERS" DETAIL)
8. INSTALL CITY FURNISHED VERTICAL FIBERGLASS MARKER IN UNDEVELOPED AREAS PER "WATER LINE MARKERS" DETAIL.
9. VALVE BOXES SHALL INCLUDE 2'X2' CONCRETE PAD WITH COVER IN CENTER OF PAD. THE CONCRETE PAD SHALL MATCH PAVEMENT THICKNESS, OR BE 6" THICK OUTSIDE PAVED AREAS.
10. VALVE BOXES AND PAD SHALL BE INSTALLED AT FINISHED GRADE. SLOPE CONCRETE PAD SURFACE SLIGHTLY AWAY FROM LID.

CITY OF ARLINGTON, TEXAS

GATE VALVE

DATE: 11/10/2018

HKS

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HKS INC.
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(214) 969-5599

CIVIL
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(214) 739-9105

MEP
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106 DECKER DRIVE, SUITE 200
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(972) 812-1270

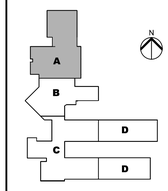
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
WATER DETAILS

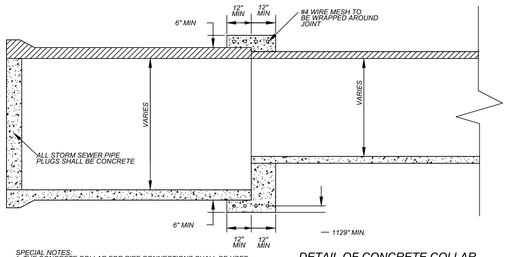
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C2.07

AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT. SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
PHONE - (817) 732-9839
FAX - (817) 732-9841
MJT NO. - 921-002A

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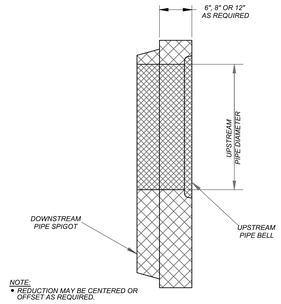


SPECIAL NOTES:
1. THE CONCRETE COLLAR FOR PIPE CONNECTIONS SHALL BE USED FOR ALL LOCATIONS WHERE A CONCRETE PIPE SIZE CHANGE OCCURS. (NO SPECIAL PAY)

DETAIL OF CONCRETE COLLAR FOR PIPE CONNECTIONS
NOT TO SCALE

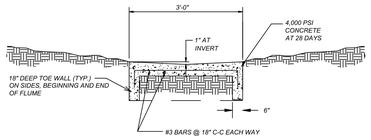
GENERAL NOTES:

1. LAYERS OF REINFORCED STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
2. EXCAVATION FOR MANHOLE TO BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLE.
3. FOR DETAILS OF REINFORCING OF LOWER PORTIONS OF INLET SEE APPROPRIATE SQUARE MANHOLE DETAILS.
4. DEPTH OF DROP INLET FROM FINISHED GRADE TO FLOW LINE OF INLET VARIABLE. APPROXIMATE DEPTH WILL BE SHOWN ON PLANS AT LOCATION OF INLET.
5. ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS SHOWN OTHERWISE ON PLANS.



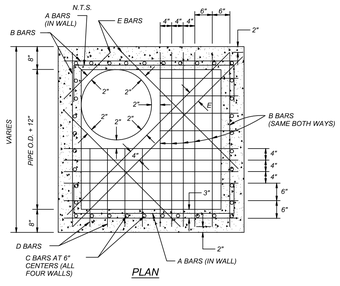
NOTE:
• REDUCTION MAY BE CENTERED OR OFFSET AS REQUIRED.

REDUCING STOPPER
N.T.S.



TYPICAL CONCRETE V-SHAPED FLUME
NOT TO SCALE

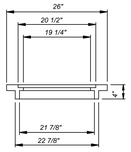
NOTES:
THIN WALL KNOCKOUTS WILL ONLY BE ALLOWED AT LOCATIONS WHERE PIPES WILL CONNECT. IF NO PIPE CONNECTION THIN WALL KNOCKOUT SHALL **NOT** BE ALLOWED



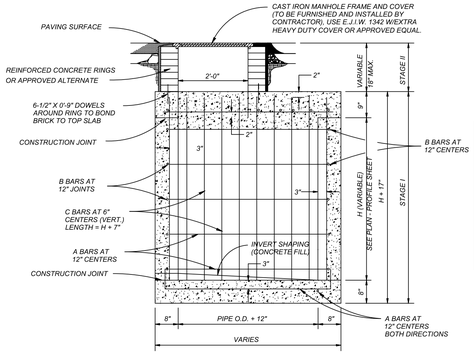
PLAN



NOTE:
LID TO BE FURNISHED WITH A CHAIN RETENTION DEVICE



STORM SEWER LID



ELEVATION

STORM SEWER MANHOLE DETAILS
NOT TO SCALE



BAR	BAR SIZE	LENGTH	NO. REQUIRED	SPACING
A	#4	6'-8"	10 IN BOTTOM 2 X "H" IN WALLS	± 12"
B	#4	5'-0"	14 IN BOTTOM 2 X "H" IN WALLS	+ 12" IN WALLS VARIABLE IN DECK SEE DETAIL
C	#4	"H"+7"	36	± 6"
D	#4	2'-3"	8	± 6"
E	#4	1 @ 2'-0" 2 @ 4'-8" 2 @ 6'-6"	5	SEE DETAIL

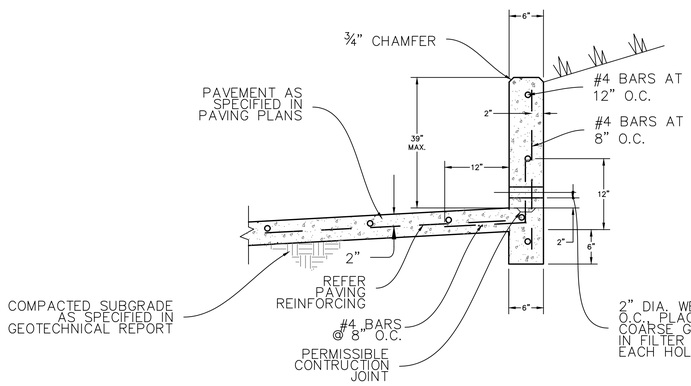
NOTE: A TEMPORARY METAL COVER SHALL BE INSTALLED AFTER STAGE I IS COMPLETED AND WILL REMAIN IN PLACE UNTIL STAGE II IS BEGUN. STAGE III WILL NOT BE BUILT UNTIL APPROVED BY THE ENGINEER. APPROVAL WILL NOT BE NORMALLY GIVEN UNTIL THE SUBGRADE AND BASE COURSES HAVE BEEN COMPLETED.

FIELD BEND OR CUT BARS AS REQUIRED TO ACCOMMODATE SEWER PIPE.

DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTER OF BARS.

ALL CONCRETE SHALL BE CLASS "A" CONCRETE.

NOTE: STORM DRAIN PIPE TO BE REINFORCED CONCRETE RUBBER GASKET OR TONGUE AND GROOVE PIPE USING OMNI-FLEX GASKETS AS MANUFACTURED BY DELTA-SOUTHWEST, INC., FT. WORTH, TEXAS, OR APPROVED EQUAL.



NOTE:
IN LOCATIONS WHERE WALL HEIGHT DOES NOT EXCEED 1' TOE WALL CAN BE OMITTED.

NOTE:
BEVELED CONTROL JOINTS SHALL BE PROVIDED ON 10' CENTERS AND EXPANSION JOINTS EVERY 30 FEET MAX.

NOTE:
ALL CONCRETE FOR WALL SHALL HAVE A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

TALL CURB DETAIL
NOT TO SCALE

AMANDA NUMBER: 2026 006578 SP

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04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
STORM SEWER DETAILS

SHEET NO.
C2.08

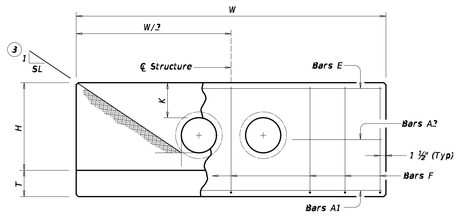
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EMPLATE VERSION: 23.0.4

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (5)

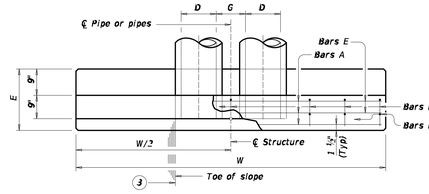
Slope	Dia of Pipe (D)	Values for One Pipe: W	Reinf (Lbs) (1)	Conc (CY) (2)	Values To Be Added for Each Add'l Pipe: W	Reinf (Lbs) (1)	Conc (CY) (2)
2:1	12"	9' - 0"	132	1.1	1' - 9"	15	0.2
	15"	10' - 3"	136	1.3	2' - 3"	16	0.2
	18"	11' - 6"	163	1.5	2' - 8"	19	0.3
	21"	12' - 9"	200	1.8	3' - 1"	31	0.4
	24"	14' - 0"	217	2.1	3' - 7"	34	0.4
	27"	15' - 3"	254	2.4	3' - 11"	37	0.5
	30"	16' - 6"	272	2.7	4' - 4"	40	0.6
	33"	17' - 9"	314	3.1	4' - 8"	43	0.6
	36"	19' - 0"	371	3.9	5' - 1"	46	0.8
	42"	21' - 6"	443	4.9	5' - 10"	52	1.0
	48"	25' - 0"	569	6.4	6' - 7"	59	1.3
	54"	27' - 6"	701	7.5	7' - 6"	83	1.6
	60"	30' - 0"	794	8.8	8' - 3"	90	1.8
	66"	33' - 6"	894	10.2	8' - 9"	96	2.0
	72"	35' - 0"	1,055	11.7	9' - 4"	103	2.3
3:1	12"	13' - 0"	175	1.6	1' - 9"	14	0.2
	15"	14' - 9"	193	1.9	2' - 3"	17	0.2
	18"	16' - 6"	238	2.2	2' - 8"	19	0.3
	21"	18' - 3"	299	2.6	3' - 1"	31	0.4
	24"	20' - 0"	333	3.0	3' - 7"	33	0.4
	27"	21' - 9"	371	3.5	3' - 11"	37	0.5
	30"	23' - 6"	415	4.0	4' - 4"	40	0.5
	33"	25' - 3"	469	4.6	4' - 8"	43	0.6
	36"	27' - 0"	556	5.7	5' - 1"	46	0.8
	42"	30' - 6"	675	7.1	5' - 10"	52	1.0
	48"	35' - 6"	837	9.2	6' - 7"	59	1.3
	54"	39' - 0"	1,015	11.0	7' - 6"	84	1.6
	60"	43' - 6"	1,171	13.9	8' - 3"	91	1.8
	66"	46' - 0"	1,298	14.9	8' - 9"	98	2.0
	72"	49' - 6"	1,561	17.1	9' - 4"	103	2.3
4:1	12"	17' - 0"	239	2.0	1' - 9"	15	0.2
	15"	19' - 3"	266	2.4	2' - 3"	17	0.2
	18"	21' - 6"	308	2.9	2' - 8"	19	0.3
	21"	23' - 9"	383	3.5	3' - 1"	31	0.3
	24"	26' - 0"	430	3.9	3' - 7"	34	0.4
	27"	28' - 3"	486	4.7	3' - 11"	37	0.5
	30"	30' - 6"	539	5.2	4' - 4"	40	0.6
	33"	33' - 9"	603	6.0	4' - 8"	42	0.6
	36"	35' - 0"	738	7.5	5' - 1"	47	0.8
	42"	39' - 6"	881	9.3	5' - 10"	52	1.0
	48"	46' - 0"	1,102	12.1	6' - 7"	61	1.3
	54"	50' - 6"	1,364	14.4	7' - 6"	84	1.6
	60"	55' - 0"	1,547	16.9	8' - 3"	91	1.8
	66"	59' - 6"	1,741	19.5	8' - 9"	98	2.0
	72"	64' - 0"	2,077	22.4	9' - 4"	102	2.3
6:1	12"	25' - 0"	336	3.0	1' - 9"	14	0.2
	15"	28' - 3"	384	3.6	2' - 3"	17	0.2
	18"	31' - 6"	452	4.2	2' - 8"	19	0.3
	21"	34' - 9"	581	5.1	3' - 1"	31	0.4
	24"	38' - 0"	644	5.8	3' - 7"	34	0.4
	27"	41' - 3"	737	6.9	3' - 11"	37	0.5
	30"	44' - 6"	807	7.7	4' - 4"	39	0.6
	33"	47' - 9"	913	8.9	4' - 8"	44	0.6
	36"	51' - 0"	1,108	11.0	5' - 1"	48	0.8
	42"	57' - 6"	1,318	13.7	5' - 10"	54	1.0
	48"	67' - 0"	1,682	17.9	6' - 7"	59	1.3
	54"	73' - 6"	2,072	21.3	7' - 6"	83	1.6
	60"	80' - 0"	2,351	24.9	8' - 3"	89	1.8
	66"	86' - 6"	2,643	28.9	8' - 9"	96	2.0
	72"	93' - 0"	3,121	33.1	9' - 4"	101	2.3

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the Texas Department of Transportation for any purpose whatsoever. The Texas Department of Transportation shall not be responsible for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

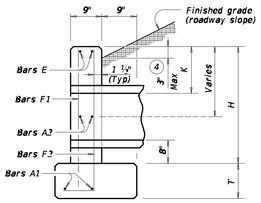
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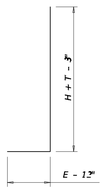
ELEVATION



PLAN OF NON-SKEWED PIPES



SECTION AT CENTER OF PIPE



BARS F2

(1) Total quantities include one 3'-1" lap for bars over 60' in length.

(2) Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.

(3) Indicated slope is perpendicular to centerline pipe or pipes.

(4) For vehicle safety, construct curbs no more than 3" above finished grade. Reduce curb heights, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(5) Dimensions shown are usual and maximum.

(6) Quantities shown are for one structure end only (one headwall).

TABLE OF CONSTANT DIMENSIONS

Dia of Pipe (D)	G	K (3)	H	T	E
12"	0' - 9"	1' - 0"	2' - 8"	0' - 9"	1' - 9"
15"	0' - 11"	1' - 0"	2' - 11"	0' - 9"	1' - 9"
18"	1' - 2"	1' - 0"	3' - 2"	0' - 9"	1' - 9"
21"	1' - 4"	1' - 0"	3' - 5"	0' - 9"	2' - 0"
24"	1' - 7"	1' - 0"	3' - 8"	0' - 9"	2' - 0"
27"	1' - 8"	1' - 0"	3' - 11"	0' - 9"	2' - 3"
30"	1' - 10"	1' - 0"	4' - 2"	0' - 9"	2' - 3"
33"	1' - 11"	1' - 0"	4' - 5"	0' - 9"	2' - 6"
36"	2' - 1"	1' - 0"	4' - 8"	1' - 0"	2' - 6"
42"	2' - 4"	1' - 0"	5' - 2"	1' - 0"	2' - 9"
48"	2' - 7"	1' - 3"	5' - 11"	1' - 0"	3' - 0"
54"	3' - 0"	1' - 3"	6' - 5"	1' - 0"	3' - 3"
60"	3' - 3"	1' - 3"	6' - 11"	1' - 0"	3' - 6"
66"	3' - 3"	1' - 3"	7' - 5"	1' - 0"	3' - 9"
72"	3' - 4"	1' - 3"	7' - 11"	1' - 0"	4' - 0"

TABLE OF REINFORCING STEEL (6)

Bar	Size	Spa	No.
A1	#5	~	2
A2	#5	1' - 6"	~
E	#5	~	2
F	#5	1' - 0"	~

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide Class C concrete (f'c = 3,600 psi).

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
Do not mount bridge rails of any type directly to these culvert headwalls.
This standard may not be used for wall heights, H, exceeding the values shown.

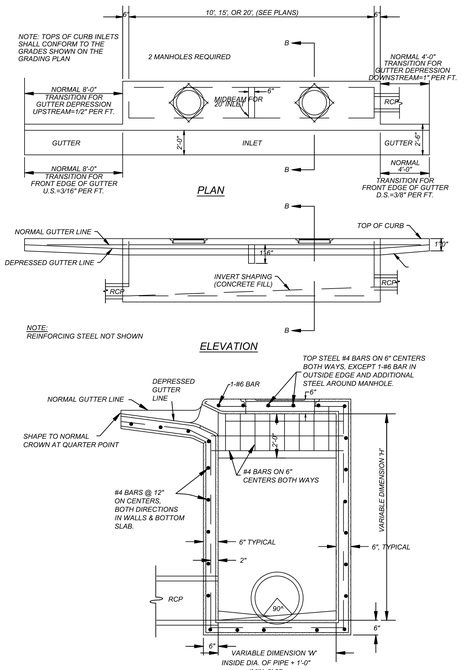
Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.

Texas Department of Transportation | Bridge Division Standard

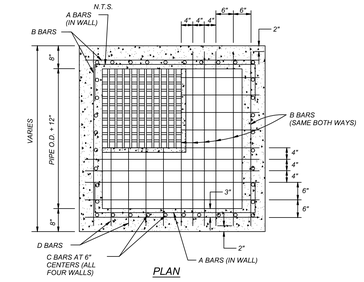
CONCRETE HEADWALLS WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERTS

CH-PW-0

FILE:	chpw0sc-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT	February 2020	CONT	SECT	JOB	HIGHWAY
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		DIST	COUNTY		SHEET NO.



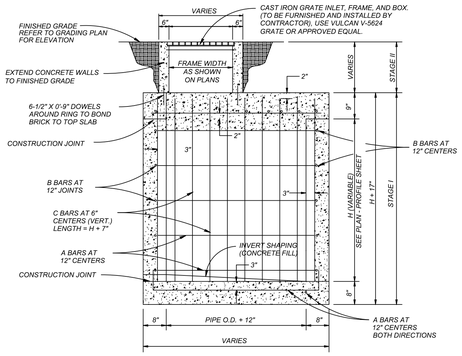
STANDARD CURB INLET DETAIL
NOT TO SCALE



PLAN



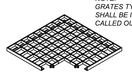
BAR	BAR SIZE	LENGTH	NO. REQUIRED	SPACING
A	#4	6'-8"	10 IN BOTTOM 2 X "H" IN WALLS	± 12"
B	#4	5'-0"	14 IN BOTTOM 2 X "H" IN WALLS	± 12" IN WALLS VARIABLE IN DECK SEE DETAIL
C	#4	"H"+7"	36	± 6"
D	#4	2'-3"	8	± 6"
E	#4	1 @ 2'-0" 2 @ 4'-8" 2 @ 6'-6"	5	SEE DETAIL



ELEVATION

TYPICAL CATCH BASIN
NOT TO SCALE

NOTE: STORM DRAIN PIPE TO BE REINFORCED CONCRETE RUBBER GASKET OR TONGUE AND GROOVE PIPE USING OMNI-FLEX GASKETS AS MANUFACTURED BY DELTA-SOUTHWEST, INC., FT. WORTH, TEXAS, OR APPROVED EQUAL.



NOTE: GRATES TYPES AND SIZES SHALL BE INSTALLED AS CALLED OUT IN THE PLANS.

GENERAL NOTES:

IN GENERAL, REINFORCING STEEL SHALL BE NO. 4 BARS, ON 12" CENTERS BOTH WAYS FOR GUTTER, BOTTOM SLAB, ENDS, AND FRONT AND BACK WALLS, AND NO. 4 BARS ON 6" CENTERS BOTH WAYS FOR TOP SLAB IN BOTH INLETS AND EXTENSIONS, AND ADDITIONAL REINFORCING STEEL SHALL BE PLACED AROUND MANHOLES AS SHOWN.

ALL REINFORCING STEEL SHALL BE OPEN HEARTH NEW BILLET STEEL OF INTERMEDIATE OR HARD GRADE CONFORMING TO ASTM A-15. DEFORMATIONS SHALL CONFORM TO ASTM A-305-56T.

ALL CONCRETE SHALL BE CLASS "A" (5 BAGS OF CEMENT PER C.Y. AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3500 PSI). ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".

ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" TO THE CENTER OF THE BARS, 8'-0" OF EXISTING CURB AND GUTTER UPSTREAM AND 4'-0" OF EXISTING CURB AND GUTTER DOWNSTREAM SHALL BE REMOVED AND REPOURED INTEGRALLY WITH EACH INLET.

ALL BACKFILL SHALL BE PERFORMED BY MECHANICAL TAMPING.

PRE-CAST INLETS ARE ACCEPTABLE. (KNOCK-OUTS ONLY ALLOWED ON CONNECTION SIDE)

FIELD BEND OR CUT BARS AS REQUIRED TO ACCOMODATE SEWER PIPE.

DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTER OF BARS.

GENERAL NOTES:

IN GENERAL, REINFORCING STEEL SHALL BE NO. 4 BARS, ON 12" CENTERS BOTH WAYS FOR GUTTER, BOTTOM SLAB, ENDS, AND FRONT AND BACK WALLS, AND NO. 4 BARS ON 6" CENTERS BOTH WAYS FOR TOP SLAB IN BOTH INLETS AND EXTENSIONS, AND ADDITIONAL REINFORCING STEEL SHALL BE PLACED AROUND MANHOLES AS SHOWN.

ALL REINFORCING STEEL SHALL BE OPEN HEARTH NEW BILLET STEEL OF INTERMEDIATE OR HARD GRADE CONFORMING TO ASTM A-15. DEFORMATIONS SHALL CONFORM TO ASTM A-305-56T.

ALL CONCRETE SHALL BE CLASS "A" (5 BAGS OF CEMENT PER C.Y. AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3500 PSI). ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".

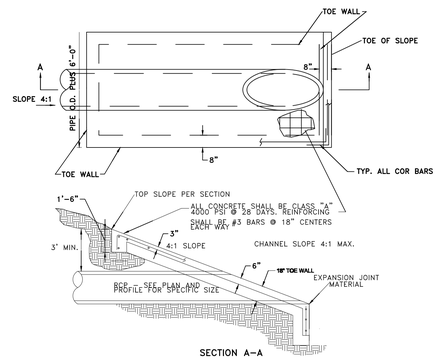
ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" TO THE CENTER OF THE BARS, 8'-0" OF EXISTING CURB AND GUTTER UPSTREAM AND 4'-0" OF EXISTING CURB AND GUTTER DOWNSTREAM SHALL BE REMOVED AND REPOURED INTEGRALLY WITH EACH INLET.

ALL BACKFILL SHALL BE PERFORMED BY MECHANICAL TAMPING.

PRE-CAST INLETS ARE ACCEPTABLE. (KNOCK-OUTS ONLY ALLOWED ON CONNECTION SIDE)

FIELD BEND OR CUT BARS AS REQUIRED TO ACCOMODATE SEWER PIPE.

DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTER OF BARS.



SLOPING ENDWALL

AMANDA NUMBER: 2026 006578 SP

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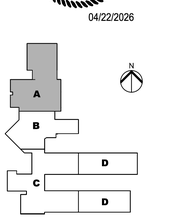
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04/22/2026

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

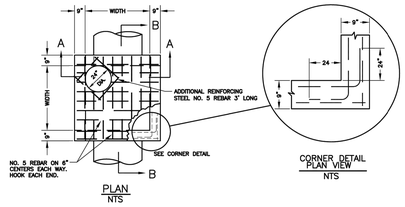
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04/27/26

ISSUE
BID SET

SHEET TITLE
STORM SEWER DETAILS 2

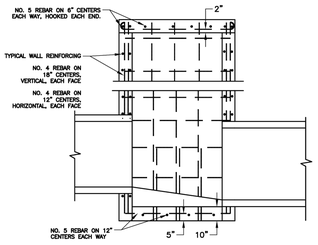
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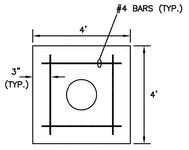


PLAN
NTS

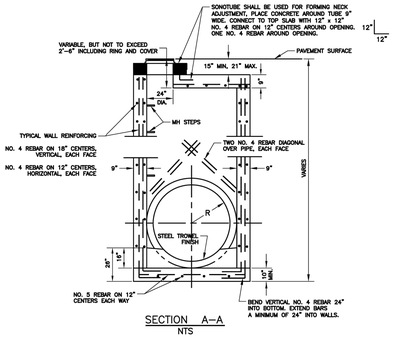
CORNER DETAIL
PLAN VIEW
NTS



SECTION B–B
NTS



CONCRETE PAD
NTS



SECTION A–A
NTS

NOTES:

1. SLOPE INVERT OF JUNCTION BOX TO MATCH PIPE FLOW LINES.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2 INCHES TO THE BARS, UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL BE CLASS C, 5 1/2 SACK, 3600 PSI.
4. REINFORCING STEEL TO BE GRADE 60.
5. TRAFFIC RATED MANHOLE LID SHALL BE USED UNLESS OTHERWISE SPECIFIED. (*SEE STORM DRAIN MANHOLE COVER & FRAME DETAIL)
6. OUTSIDE CONCRETE PAVED AREAS, JUNCTION BOXES SHALL BE INSTALLED WITH 4'X4' CONCRETE PAD WITH MANHOLE COVERS IN CENTER OF PAD. THE CONCRETE PAD SHALL MATCH PAVEMENT THICKNESS WITHIN ASPHALT PAVEMENT, OR BE 6" THICK OUTSIDE ALL PAVED AREAS. CONCRETE PADS SHALL BE REINFORCED WITH FOUR NO. 4 REBARS AROUND THE CONCRETE PAD.
7. STEPS ARE REQUIRED UNDER ALL MANHOLES FOR JUNCTION BOXES WITH A DEPTH OF 4 FEET OR GREATER (*SEE NON–CORROSIVE STEP DETAIL).

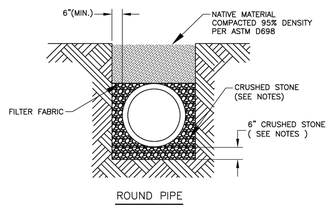
JUNCTION BOX MAY BE RECTANGULAR BUT NOT LESS THAN 4 FEET IN SHORT DIRECTION.

STORM DRAIN JUNCTION BOX (4', 5' OR 6' WIDTHS)
NTS REV: 4/29/21

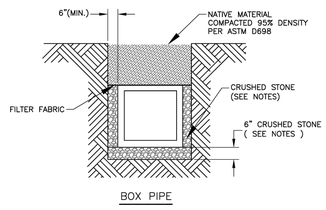
CITY OF ARLINGTON, TEXAS

STORM DRAIN JUNCTION BOX

DATE:	SCALE: NTS	SHEET ____OF____
DESIGNED BY:	DRAWN BY:	CHECKED BY:



ROUND PIPE



BOX PIPE

THE PIPE SHALL BE BEDDED IN A MINIMUM OF SIX INCHES (6") OF CRUSHED STONE EXCEPT IN ROCK OR IN WET OR UNSTABLE TRENCHES WHERE AN ADDITIONAL 3 INCHES OF CRUSHED STONE WILL BE ADDED TO THE STANDARD BEDDING REQUIREMENTS. CRUSHED STONE SHALL MEET C.O.G. 504-2.2.1 CRUSHED STONE EMBEDMENT – AGGREGRATE GRADE 4. RIVER ROCK/GRAVEL WILL BE ALLOWED AS LONG AS IT MEETS THIS GRADATION.

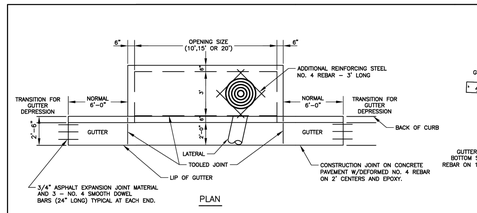
AFTER THE PIPE HAS BEEN LAID AND THE JOINTS MADE, CRUSHED STONE SHALL BE PLACED FROM THE BOTTOM OF THE PIPE TO THE TOP OF THE PIPE. THE MATERIAL SHALL BE PLACED UNIFORMLY ON BOTH SIDES OF THE PIPE IN ORDER TO PREVENT DISTURBANCE OF THE PIPE AND, IF NECESSARY, BLOCKING SHALL BE PLACED AGAINST THE SIDES OF THE TRENCH TO PREVENT DISPLACEMENT OF THE PIPE. FILTER FABRIC SHALL BE PLACED OVER THE FULL WIDTH OF THE EMBEDMENT PRIOR TO TRENCH BACKFILL OPERATIONS. PIPE EMBEDMENT FILTER FABRIC MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS.

RCP STORM PIPE EMBEDMENT
NTS REV: 7/6/17

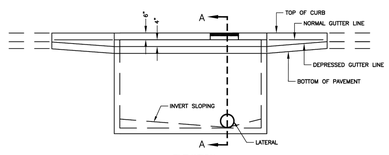
CITY OF ARLINGTON, TEXAS

RCP STORM PIPE EMBEDMENT

DATE:	SCALE: NTS	SHEET ____OF____
DESIGNED BY:	DRAWN BY:	CHECKED BY:

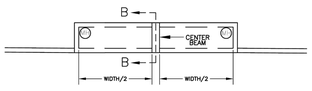


PLAN

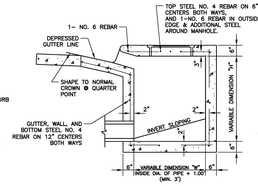


ELEVATION

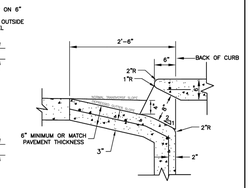
CURB INLET
NTS REV: 7/25/17



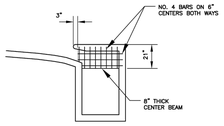
CENTER BEAM FOR 15' AND 20' INLETS
NTS



SECTION A–A
CURB INLET
CROSS SECTION
NTS



THROAT DETAIL FOR CURB INLET ON CONCRETE STREET
NTS



SECTION B–B NOTES:

1. ALL 15' AND 20' INLETS WILL REQUIRE A CENTER SUPPORT BEAM.
2. ALL OPEN BACK INLETS WILL REQUIRE A CENTER BEAM, REGARDLESS OF INLET TYPE OR SIZE.

SECTION B–B
NTS

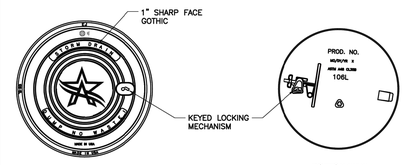
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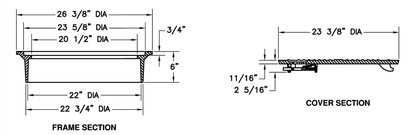
1. REINFORCING STEEL SHALL BE NO. 4 REBAR ON 12" CENTERS BOTH WAYS FOR GUTTER, BOTTOM SLAB, ENDS, FRONT AND BACK WALLS, AND NO. 4 REBAR ON 6" CENTERS BOTH WAYS FOR TOP SLAB. AN ADDITIONAL NO. 6 REBAR SHALL BE PLACED IN THE FRONT EDGE OF THE TOP SLAB IN THE INLETS AND ADDITIONAL REINFORCING STEEL SHALL BE PLACED AROUND MANHOLES AS SHOWN.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. ALL CONCRETE SHALL BE CLASS C, 5 1/2 SACK, 3600 PSI.
4. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
5. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2".
6. ALL BACKFILLING SHALL BE PERFORMED BY MECHANICAL TAMPING TO 95% DENSITY PER ASTM D698.
7. IF MODIFYING AN INLET, i.e. CREATING AN OPEN BACK INLET, THE TOP SHALL BE REMOVED AND RECONSTRUCTED.
8. LOCATION OF MANHOLE OPENING TO BE AT OUTFALL END.
9. ALL 15' AND 20' INLETS WILL REQUIRE TWO MANHOLES ONLY IF THE INSIDE HEIGHT (UNDER THE CENTER BEAM) IS LESS THAN FOUR FEET.
10. LIGHT BROOM FINISH ON ALL SURFACES.
11. PRECAST INLETS SHALL NOT BE ALLOWED.
12. STEPS ARE REQUIRED UNDER ALL MANHOLES FOR CURB INLETS WITH A DEPTH OF 4 FEET OR GREATER (*SEE NON–CORROSIVE STEP DETAIL).
13. NON–TRAFFIC RATED MANHOLE LID SHALL BE USED UNLESS OTHERWISE SPECIFIED. (*SEE STORM DRAIN MANHOLE COVER & FRAME DETAIL)

CITY OF ARLINGTON, TEXAS

CURB INLET

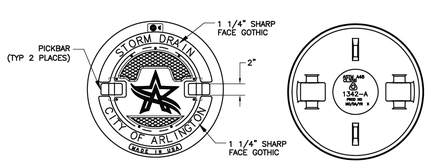
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DESIGNED BY:	DRAWN BY:	CHECKED BY:

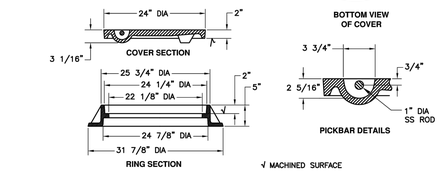




MANUFACTURER	REFERENCE NUMBER	APPROX. WEIGHT
EAST JORDAN	106–6L	175 lb
BASS & HAYS	BH 226L	175 lb
*OR APPROVED EQUAL		

NON–TRAFFIC RATED LOCKING
NTS





MANUFACTURER	REFERENCE NUMBER	APPROX. WEIGHT
EAST JORDAN	1342Z1/A	291 lb
BASS & HAYS	V–1342	288 lb
*OR APPROVED EQUAL		

TRAFFIC RATED
NTS

NOTES:

1. NON–TRAFFIC RATED ASSEMBLIES SHALL NOT EXCEED A LOAD OF 16,000 LBS.
2. TRAFFIC RATED ASSEMBLIES SHALL BE LOAD RATED H20.

STORM DRAIN MANHOLE COVER & FRAME
NTS REV: 5/19/21

CITY OF ARLINGTON,TEXAS

STORM DRAIN MANHOLE COVER & FRAME

DATE:	SCALE: NTS	SHEET ____OF____
DESIGNED BY:	DRAWN BY:	CHECKED BY:

PLOT DATE:
12/26/2025 11:31:32 AM
EARLY_ACE VERSION: 23.0.4

AMANDA NUMBER: 2026 006578 SP

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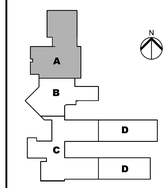
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04/22/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

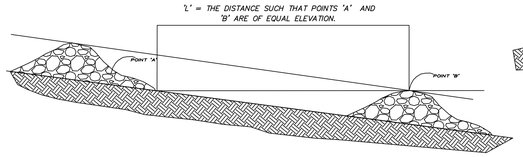
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26399.005

DATE
04/27/26

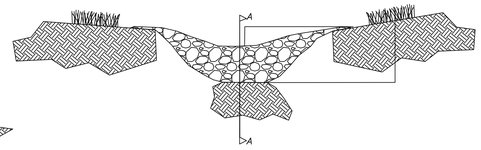
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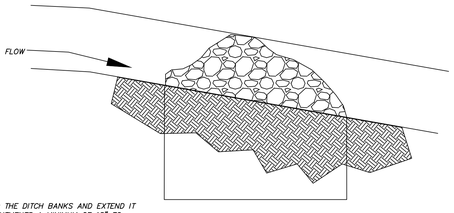
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SPACING BETWEEN CHECK DAMS



VIEW LOOKING UPSTREAM



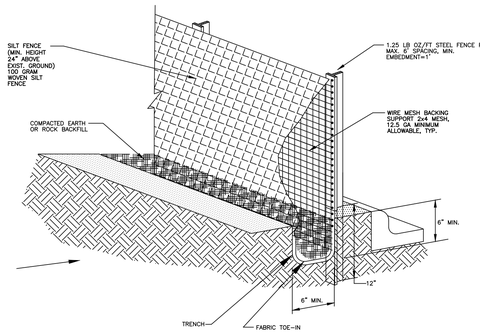
NOTE:
KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT OVER FLOW AROUND DAM.

SECTION A – A

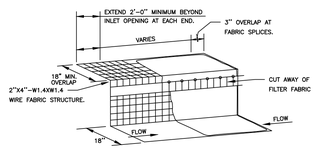
SILT FENCE GENERAL NOTES

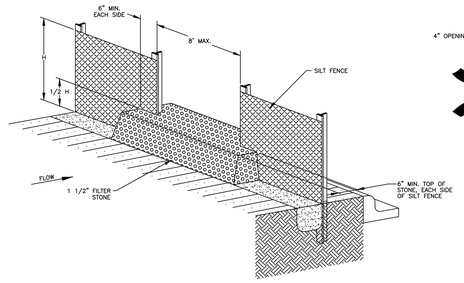
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND 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.

NOTE: STONE OVERFLOW STRUCTURES OF OTHER OUTLET CONTROL DEVICES SHALL BE INSTALLED AT ALL LOW POINTS ALONG THE FENCE OR EVERY 300 FEET IF THERE IS NO APPARENT LOW POINT

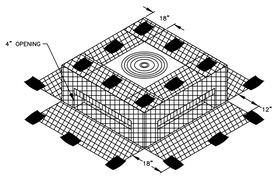


ISOMETRIC PLAN VIEW
N.T.S.

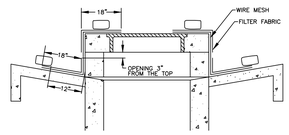




SILT FENCE
STONE OVERFLOW STRUCTURE
N.T.S.

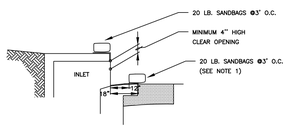


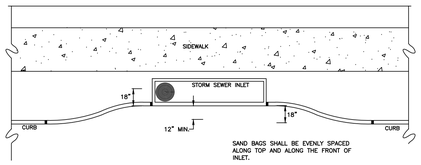
ISOMETRIC VIEW



SECTION

FILTER FABRIC WYE INLET PROTECTION
N.T.S.

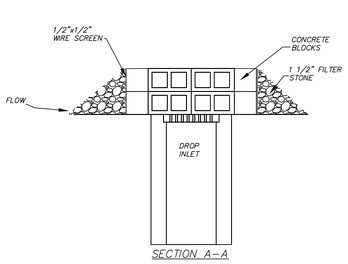




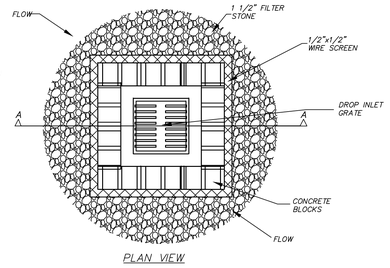
CURB INLET PROTECTION DETAIL
NOT TO SCALE

NOTES:
1. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL TO PROVIDE A 4" MINIMUM CLEAR OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
2. INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

INLET OPENING	MINIMUM NUMBER OF SAND BAGS	
	TOP	FRONT
5'	2	3
10'	3	3
15'	3	4
20'	4	4

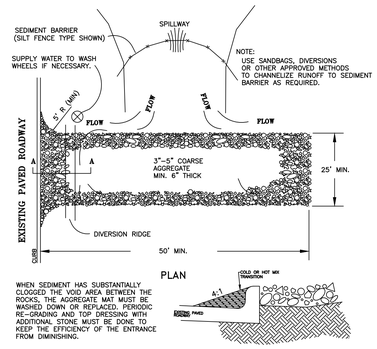


SECTION A–A



PLAN VIEW

BLOCK/GRAVEL DROP INLET PROTECTION
NOT TO SCALE



WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MAT MUST BE WASHED DOWN OR REPLACED. PERIODIC RE-GRADING AND TOP DRESSING WITH ADDITIONAL STONE MUST BE DONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING.

MINIMUM CONSTRUCTION EXIT/ENTRANCE DIMENSIONS

DISTURBED AREA	MIN. WIDTH OF EXIT	MIN. LENGTH OF EXIT
<1 ACRE	15 FEET	20 FEET
≥1 ACRE BUT <5 ACRES	25 FEET	50 FEET
≥5 ACRES	30 FEET	50 FEET

TRANSITION

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT
N.T.S.

ESTABLISHMENT OF GROUND COVER

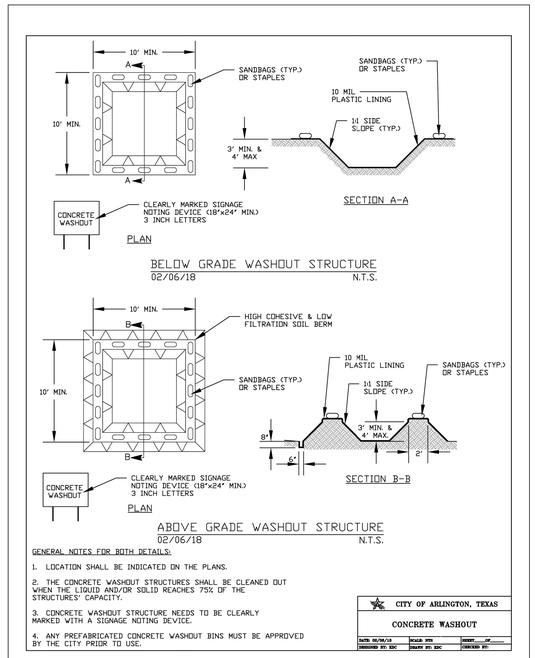
1. All areas of the site including any off–site area that is disturbed by construction activities, shall recieve at a minimum, hydromulch and 4" of top–soil. Refer to Landscape, Demolition, Grading, Paving, Drainage, Water, Sewer, Irrigation and Sediment Control Plans to determine all limits of disturbance. Contractor shall provide sod as required elsewhere in the plans.
2. Supply the seeded areas with adequate moisture (4" penetration) at ten (10) day intervals, if needed, for seed germination and plant growth until acceptance by the Owner. Water the seed in a manner which will prevent erosion of the soil. Furnish all water to be used. Repair washouts and other bare soil areas in a seeded area either by re–seeding, sprigging, or spot–sodding, and perform maintenance as needed to establish grass in the area. Control competitive weed growth during the establishment period with herbicides. Chemical usage shall be in accordance with the current recommendations of the Texas Agricultural Experiment Station or local Soil Conservation Service Field Office Technical Guides. Strictly adhere to all Federal, State, and local laws governing herbicides. Weed control shall be the Contractor's responsibility whether topsoil is from on–site or off–site sources and also for seeded areas which are specified not to receive topsoil.
3. Any areas which are disturbed by the Contractor which are not shown on the drawings or specified to require disturbance including any approved areas not shown on the drawings, shall be considered as unauthorized disturbed areas. Any such areas shall be seeded as specified in this section at the Contractor's expense and no separate pay.
4. Eighty percent (80%) evenly distributed ground cover, without large bare areas, shall be established after the designated areas have been completed to the lines, grades and cross sections shown on the plans and prior to final acceptance by the City Engineer.
5. Ground cover shall be established as per North Central Texas Council of Governments (N.C.T.C.O.G.) "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 202.6 Seeding Turfgrass. Copies may be obtained from the "NORTH CENTRAL COUNCIL OF GOVERNMENTS", PO Drawer 5888, Arlington, Texas, 76005–5888, Phone (817) 640–3300, also available at www.publicworks.dfwinfo.com. A copy of the contract documents, plans and specifications shall be available on–site at all times by the Contractor.
6. Prior to planting, contractor shall provide the City Engineer, or his designee, with the State of Texas Certificate stating analysis of purity and germination of seed.
7. Planting season and application rates. All planting shall be done between the dates specified in Table 1, for each grass type except when specifically authorized in writing. The seeds planted per acre shall be of a type specified with the mixture, rate and planting dates as shown in the Table 1, or as specified by the Engineer.

Table 1. Seeding Turfgrass

TYPE	PLANTING SEASON	SEED AND RATE
TYPE I	MARCH THROUGH SEPTEMBER	BERMUDA GRASS, HULLED 50–LB (22.7–KG) PLS[1] PER ACRE
TYPE II	OCTOBER THROUGH FEBRUARY	RYE GRASS, 100–LB (45.4–KG) PLS PER ACRE COMBINED WITH BERMUDA GRASS, HULLED 20–LB (9.1–KG) PLS[1] PER ACRE.
OTHER	AS SPECIFIED ON PLANS	AS SPECIFIED ON PLANS

[1] PLS – Pure Live Seed is determined by multiplying the gross weight times purity times the germination (For example, a 100–lb bag with 80% purity and 80% germination. (Pounds-in bag x Purity x germination) 100 x 0.80 x 0.8 = 60.8 –lbs of pure live seed.)

8. Seeded areas shall be maintained, including watering and mowing, at such time and in a manner and quality to establish a minimum 80% evenly distributed ground cover, without large bare areas, until completion and final acceptance of the project by the City Engineer.



AMANDA NUMBER: 2026 006578 SP

MJ THOMAS ENGINEERING, LLC
4700 BRYANT IRVIN CT, SUITE 204
FORT WORTH, TX 76107
REGISTRATION NO. F-9435
PHONE - (817) 732-9839
FAX - (817) 732-9841
MJT NO. - 921-002A

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PLOT DATE: 12/26/2025 11:31:32 AM TEMPLATE VERSION 23.0.4

HKS

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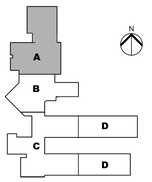
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER
04/22/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
STORM WATER MANAGEMENT DETAILS

SHEET NO.
C2.11

FlexStorm® Connector Pipe Screen

FlexStorm Connector Pipe Screen (CPS) is the perfect tool to help you meet your total maximum daily load. Whether for a retrofit or a new construction, there is a CPS that will fit your catch basin. A CPS retains large volumes of trash and sediment inside the catch basin, where it can be regularly removed by a vacuum truck, instead of conveying debris through the stormwater system.

Features

- Constructed from 14GA perforated stainless steel, reinforced with 12GA U-channels around entire perimeter
- Trash accumulates in catch basin instead of downstream
- Keeps all particles larger than 0.197" (5 mm) inside catch basin
- 50% open area for high flow; designed to match basin hydraulics

Benefits

- Good for retrofits, new applications or city-wide installs
- Comes in multiple shapes, depending on the catch basin
- Rolled panels provide increased strength compared to flat screens
- Quick and easy installation; ships sized to the catch basin so assembly is not required





FlexStorm Connector Pipe Screen (CPS) Specifications

Product Selection

In general, a Connector Pipe Screen (CPS) must be sized appropriately to pass a one-year rain event through the perforated screen material and pass a 10-year rain event through the bypass area if a deflector lid is required. The shape of the screen depends on location of the outlet pipe. ADS will assist in the selection of the appropriate CPS design given the following information:

1. Catch basin length and depth
2. Location of the outlet pipe
3. A completed CPS dimensional form



Materials

Each CPS is comprised entirely of 304 stainless steel and brought to the field pre-configured for easy installation. All models are supplied with vertical upright mounting brackets which accept four ⅜" x 3" (9 x 76 mm) stainless anchor bolts. All bypass lids require two ⅜" x 3" (9 x 76 mm) stainless anchor bolts. Mounting brackets are equipped with slotted holes to allow for varied contours on walls and sloped floors.



Installation

1. Lower the CPS through the manhole opening
2. Position the CPS evenly spaced around the connector pipe ensuring a minimum of 4" (100 mm) spacing away from the corners.
3. Loosen the bolts in the slotted holes which connect the screen to the upright mounting brackets until the bottom is flush with the floor
4. Tighten the bolts and mark the hole locations on the wall for the stainless anchor bolts
5. Drill holes, hammer the bolts in place and secure the connector pipe screen using provided stainless nuts
6. If the bottom of the base exposes more than a 0.197" (5 mm) gap, then an additional base face strip may be fastened to the base channel using stainless tek screws or rivets



Maintenance

ADS advises that catch basins be cleaned out at least two (2) times per year and/or if debris has filled above a 40% level inside of the catch basin. Sites with large amounts of foliage, high sediment loads or smalled CPS devices might need to be cleaned more frequently.

Maintenance Conditions and Maintenance Standards: The following are deficiencies in maintenance conditions and their corresponding maintenance standards which shall apply to the CPS. The clean out of each catch basin shall meet the maintenance standards listed as follows:

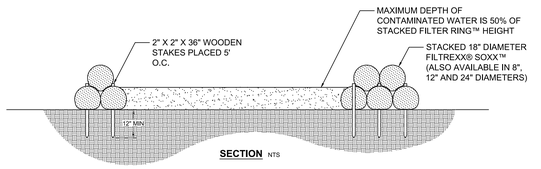
1. Clear trash and debris located immediately in front of curb opening or side opening of catch basin and on top or between metal grates of grated catch basin
2. Remove vegetation growing across and/or blocking the basin opening
3. Remove all trash, debris and vegetation from inside the catch basin
4. Remove trash and debris in the connector pipe opening, upstream or downstream
5. Knock off/remove debris that covers the perforated openings of the CPS
6. Ensure there is no standing water inside of catch basin (indicates the device is not draining properly).

Build America, Buy America (BABA)

For any questions related to Build America, Buy America (BABA) Act compliance contact an ADS representative or email flexstorm@adspipe.com.

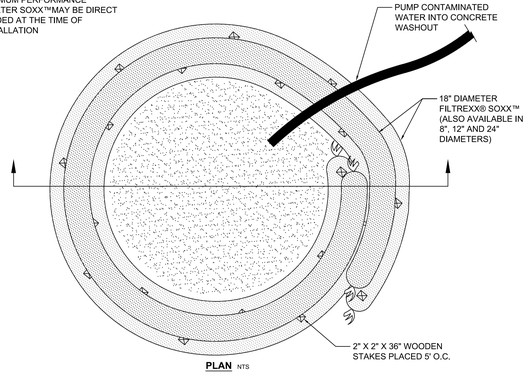
adspipe.com
800-821-6710

ADS "Terms and Conditions of Sale" are available on the ADS website, www.adspipe.com.
ADS®, and the Green Stripe are registered trademarks of Advanced Drainage Systems, Inc. FlexStorm® is a registered trademark of Inlet & Pipe Protection, Inc.
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SECTION NTS

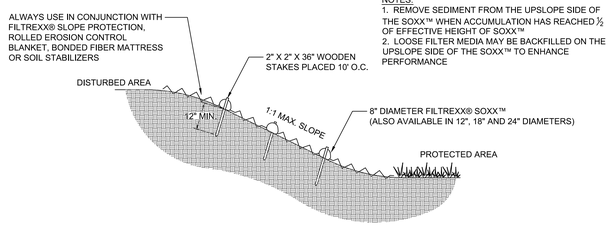
NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
2. FILTER SOXX™MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION



PLAN NTS

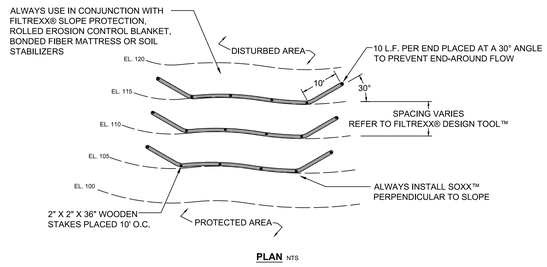
FILTREXX® CONCRETE WASHOUT

NTS



NOTES:
1. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SOXX™ WHEN ACCUMULATION HAS REACHED ½ OF EFFECTIVE HEIGHT OF SOXX™
2. LOOSE FILTER MEDIA MAY BE BACKFILLED ON THE UPSLOPE SIDE OF THE SOXX™ TO ENHANCE PERFORMANCE

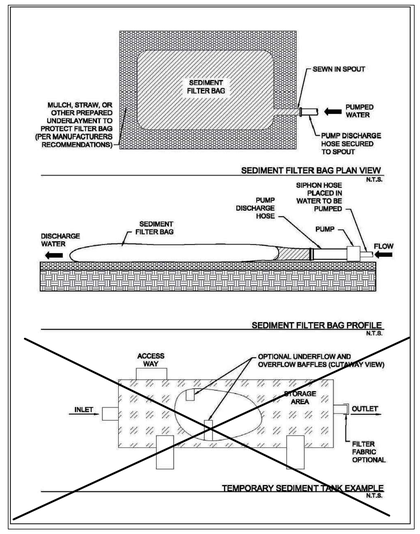
SECTION NTS



PLAN NTS

FILTREXX® SLOPE INTERUPTION

NTS



AMANDA NUMBER: 2026 006578 SP

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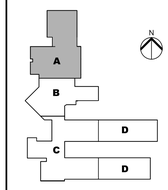
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

MICHAEL A. THOMAS 93640 LICENSED PROFESSIONAL ENGINEER
04/22/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/26

ISSUE
BID SET

SHEET TITLE
STORM WATER MANAGEMENT DETAILS 2

SHEET NO.
C2.12

City of Arlington Ordinance Guidelines:

Existing Trees:

(1) One point = (1) one caliper inch
Gain points to keep trees, Lose points when trees are removed
Dead, dying, or diseased trees (as determined by zoning administrator) may be exempt from requirements
Existing trees (6) six caliper inches and greater removed require mitigation

Earning Tree Credits:

(1) One point = (1) one caliper inch
Preserving trees (3) three caliper inches and greater in healthy condition
Planting of trees (3) three caliper inches and greater
Native Species (existing or newly planted) earn one-half additional tree points
"Significant Stand" of existing trees earn one-half additional tree points

Tree Number	Description	Cal Inches	Protected	Removed	Tree Points Remove (Negative)	Tree Points Remain (Possitive)	Bonus Points Native Species
1	OAK	14	Y	N		14	7
2	OAK	16	Y	N		16	8
3	OAK	14	Y	N		14	7
4	OAK	18	Y	N		18	9
5	OAK	18	Y	N		18	9
6	OAK	12	Y	N		12	6
7	OAK	16	Y	N		16	8
8	OAK	14	Y	N		14	7
9	OAK	18	Y	N		18	9
10	OAK	16	Y	N		16	8
11	OAK	24	Y	N		24	12
12	OAK	16	Y	N		16	8
13	OAK	18	Y	N		18	9
14	OAK	24	Y	N		24	12
15	OAK	19	Y	N		19	10
16	OAK	30	Y	N		30	15
17	OAK	20	Y	N		20	10
18	OAK	24	Y	N		24	12
19	OAK	22	Y	N		22	11
20	OAK	24	Y	N		24	12
21	OAK	16	Y	N		16	8
22	OAK	16	Y	N		16	8
23	OAK	20	Y	N		20	10
24	OAK	16	Y	N		16	8
25	OAK	20	Y	N		20	10
26	OAK	20	Y	N		20	10
27	OAK	20	N	N		20	10
28	OAK	16	Y	Y	16		
29	OAK	12	Y	Y	12		
30	OAK	24	Y	Y	24		
31	PECAN	36	Y	N		36	
32	PECAN	28	Y	N		28	
33	PECAN	32	Y	N		32	
34	PECAN	20	Y	N		20	
35	PECAN	30	Y	N		30	
36	PECAN	30	Y	N		30	
37	OAK	18	Y	N		18	9
38	OAK	18	Y	N		18	9
39	OAK	24	Y	N		24	12
40	SYCAMORE	48	Y	N		48	
	TOTALS:	841			52	789	282.5

TOTAL OF PRESERVED CALIPER INCHES 789

TOTAL OF BONUS POINTS FOR NATIVE SPECIES 282

1,071 PRESERVATION POINTS

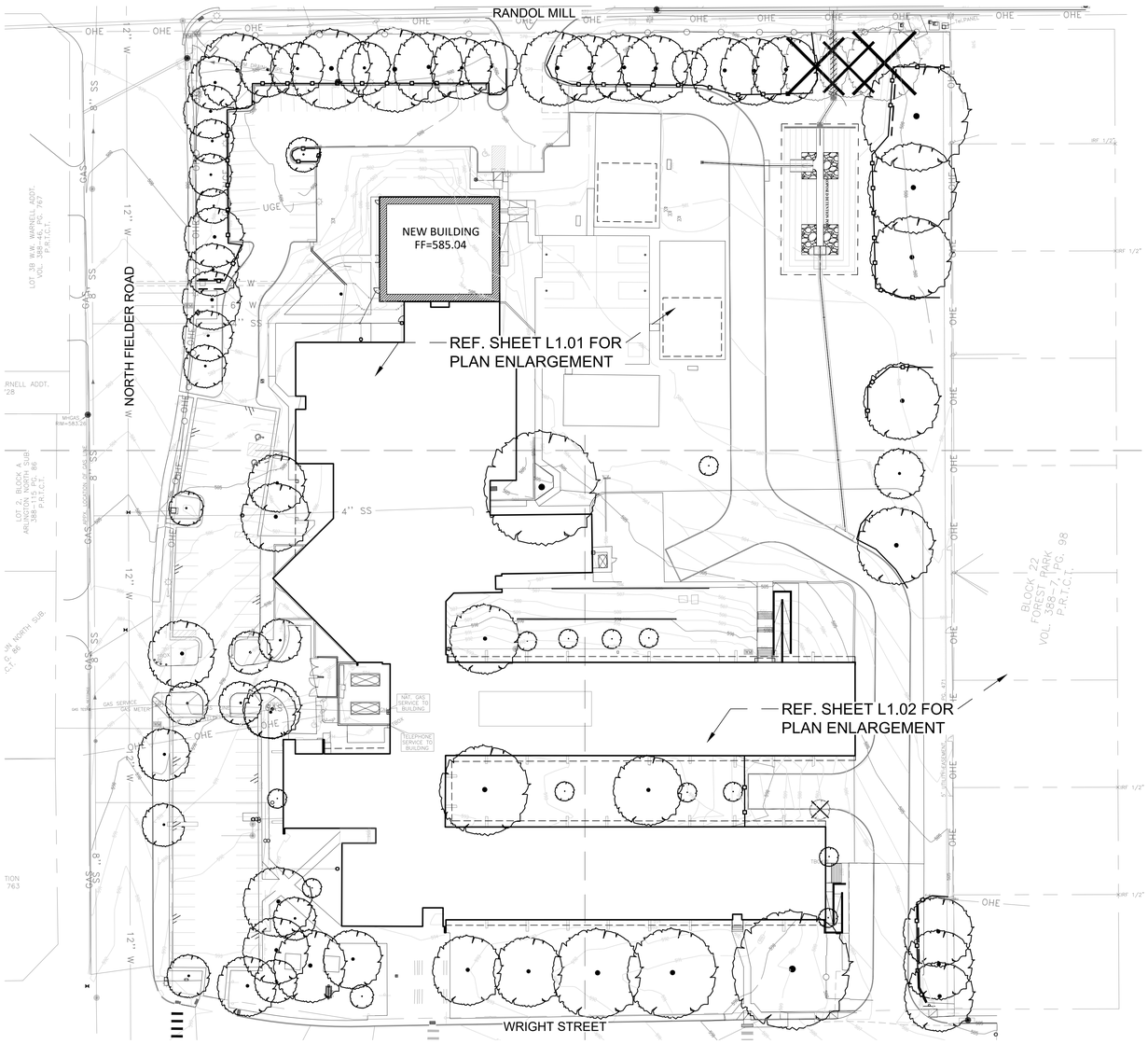
TOTAL OF PRESERVATION POINTS 1,071

TOTAL POINTS REQUIRED 841

230 POINTS BEYOND CODE REQ.

NOTE:
1. SEE PLANTING PLAN FOR ADDITIONAL TREES PLANTED WITHIN THE SITE AT A MINIMUM OF (3) CALIPER INCHES. REFER TO TREE PROTECTION NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

2. EXISTING TREE LIST ONLY ACCOUNTS FOR THE LABELS TREES ON THE PLAN. ANY EXISTING TREE WITHOUT A LABEL IS NOT LISTED ON THE ABOVE TREE LIST.



1 WIMBISH ELEMENTARY - TREE CONSERVATION AND REMOVAL KEY PLAN
1" = 40'-0"

0 20 40 80ft NORTH

TREE PROTECTION:
THE FOLLOWING MEASURES SHALL BE UNDERTAKEN PRIOR TO OR DURING ON-SITE CONSTRUCTION ACTIVITY IN ORDER TO PRESERVE TREES:

1. ALL TREES TO BE PRESERVED SHALL BE FLAGGED BY THE DEVELOPER WITH BRIGHTLY COLORED VINYL TAPE WRAPPED AROUND THE MAIN TRUNK AT A HEIGHT OF APPROXIMATELY FOUR (4) FEET OR MORE SUCH THAT THE TAPE IS VISIBLE TO WORKERS ON FOOT OR DRIVING EQUIPMENT.
2. ALL PRESERVED TREES REMAINING ON-SITE SHALL HAVE PROTECTIVE FENCING, LOCATED APPROXIMATELY AT THE DRIP LINE. THE PROTECTION FENCING MAY BE COMPRISED OF BRIGHTLY COLORED VINYL CONSTRUCTION FENCING, CHAIN LINK FENCING, OR OTHER SIMILAR FENCING WITH AN APPROXIMATE HEIGHT OF FOUR (4) FEET. WHERE PRESERVED TREES ARE IN A STAND, THE ENTIRE STAND SHALL HAVE PROTECTION FENCING.
3. IN INSTANCES WHERE THE ZONING ADMINISTRATOR DETERMINES PROTECTION FENCING IS NOT PRACTICAL, THE TRUNK OF THE PRESERVED TREE SHALL BE PROTECTED BY ENCLOSING THE ENTIRE CIRCUMFERENCE WITH LUMBER ENCIRCLED WITH WIRE OR OTHER STABILIZING MEANS THAT DOES NOT DAMAGE THE TREE.
4. NO PAVEMENT, PERVIOUS NOR IMPERVIOUS, SHALL BE INSTALLED BENEATH THE DRIP LINE OF A SIGNIFICANT STAND THAT INCLUDES CROSS TIMBER OAKS.

NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.

NOTE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY ADDITIONAL TREES THAT HAVE DIED. ALL TREES SHOWN ON THE PLAN MUST BE IN A HEALTHY GROWING CONDITION PER CITY OF ARLINGTON CODE REQUIREMENTS IN ORDER TO OBTAIN PERMIT AND FINAL CLOSE OUT.

NOTE: CONTRACTOR TO REPAIR ALL DISTURBED AREAS INCLUDING PLANTING AND IRRIGATION CAUSED BY CONSTRUCTION INCLUDING UTILITY WORK, LAYDOWN AREAS, MATERIAL STORAGE, GRADING, PARKING, ETC.

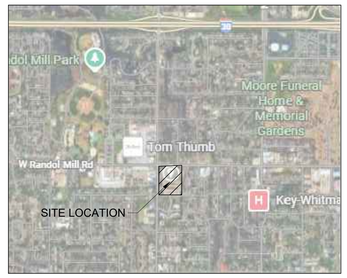
TREE CONSERVATION AND REMOVAL LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO REMOVE
- TREE PROTECTION FENCING, CHAIN LINK, REF. L1.03 FOR DETAILS
- ROOT PRUNING

TREE PROTECTION, FENCING, FLAGGING, PRUNING, AND MULCHING

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 OF 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 THESE AREAS 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 CITY OF DALLAS STANDARDS AND ORDINANCES.
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 THE PARKS DEPT. 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.

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



SITE MAP LOCATION
NTS

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MEP
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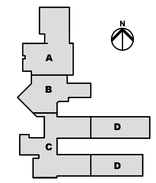
STRUCTURAL
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT JACKIE MARK SZAFRANIEC 3165 STATE OF TEXAS

03/30/2026



KEY PLAN

REVISION

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

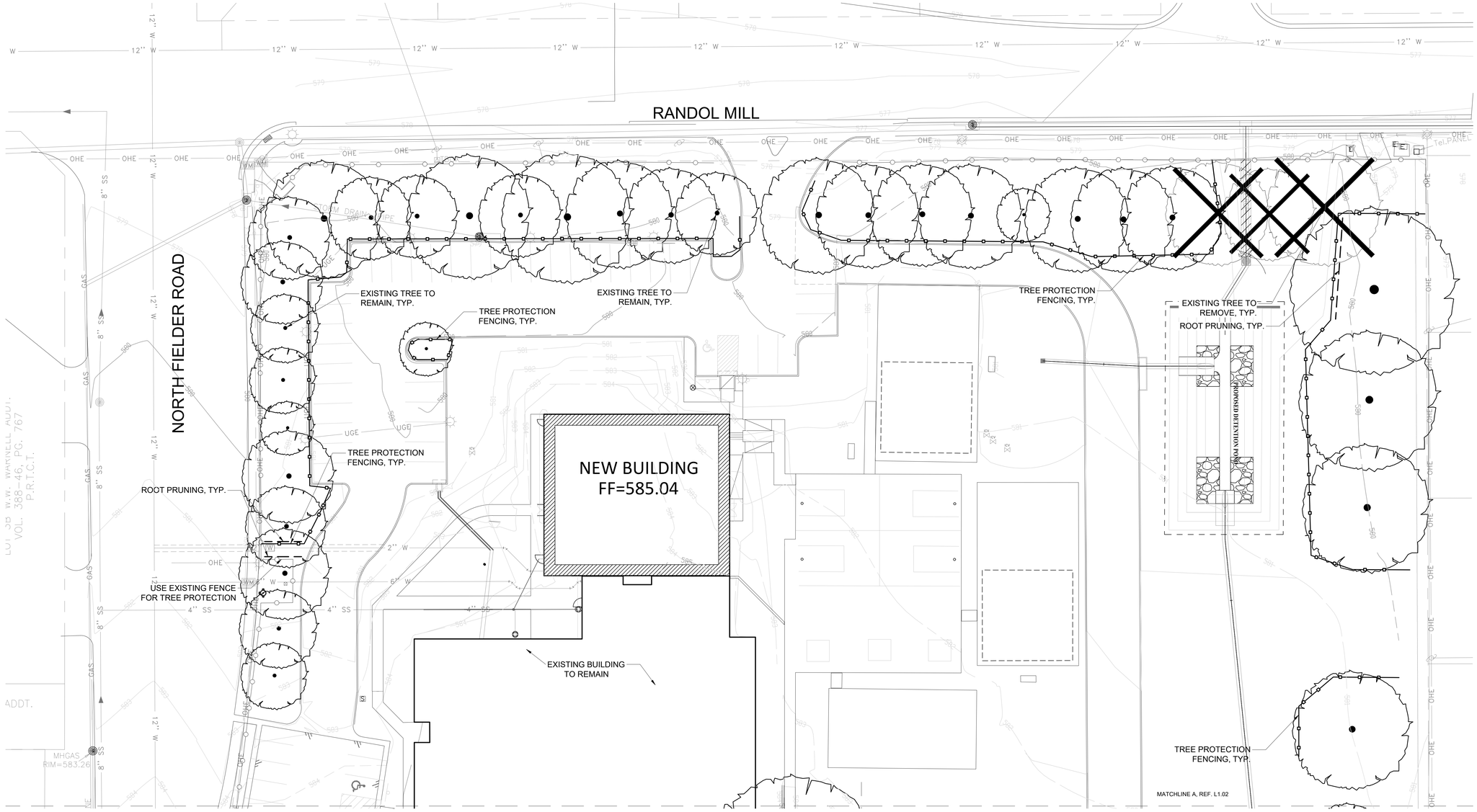
ISSUE
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SHEET TITLE
TREE CONSERVATION AND REMOVAL KEY PLAN

SHEET NO.
L1.00

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1 WIMBISH ELEMENTARY - TREE CONSERVATION AND REMOVAL PLAN

1" = 20'-0"

0 10 20 40ft

NORTH

TREE PROTECTION:
THE FOLLOWING MEASURES SHALL BE UNDERTAKEN PRIOR TO OR DURING ON-SITE CONSTRUCTION ACTIVITY IN ORDER TO PRESERVE TREES:

1. ALL TREES TO BE PRESERVED SHALL BE FLAGGED BY THE DEVELOPER WITH BRIGHTLY COLORED VINYL TAPE WRAPPED AROUND THE MAIN TRUNK AT A HEIGHT OF APPROXIMATELY FOUR (4) FEET OR MORE SUCH THAT THE TAPE IS VISIBLE TO WORKERS ON FOOT OR DRIVING EQUIPMENT.
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3. IN INSTANCES WHERE THE ZONING ADMINISTRATOR DETERMINES PROTECTION FENCING IS NOT PRACTICAL, THE TRUNK OF THE PRESERVED TREE SHALL BE PROTECTED BY ENCLOSING THE ENTIRE CIRCUMFERENCE WITH LUMBER ENCIRCLED WITH WIRE OR OTHER STABILIZING MEANS THAT DOES NOT DAMAGE THE TREE.
4. NO PAVEMENT, PERVIOUS NOR IMPERVIOUS, SHALL BE INSTALLED BENEATH THE DRIP LINE OF A SIGNIFICANT STAND THAT INCLUDES CROSS TIMBER OAKS.

NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.

NOTE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY ADDITIONAL TREES THAT HAVE DIED. ALL TREES SHOWN ON THE PLAN MUST BE IN A HEALTHY GROWING CONDITION PER CITY OF ARLINGTON CODE REQUIREMENTS IN ORDER TO OBTAIN PERMIT AND FINAL CLOSE OUT.

NOTE: CONTRACTOR TO REPAIR ALL DISTURBED AREAS INCLUDING PLANTING AND IRRIGATION CAUSED BY CONSTRUCTION INCLUDING UTILITY WORK, LAYDOWN AREAS, MATERIAL STORAGE, GRADING, PARKING, ETC.

TREE CONSERVATION AND REMOVAL LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO REMOVE
- TREE PROTECTION FENCING, CHAIN LINK, REF. L1.03 FOR DETAILS
- ROOT PRUNING

PLOT DATE: 04/28/26 8:52:15 AM TEMPLATE VERSION 23.0.4

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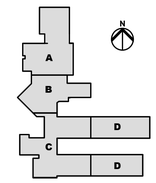
WIMBISH WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT — JACKIE CLARK CRAWFORD — 3765 — STATE OF TEXAS

03/30/2026



KEY PLAN

REVISION

HKS PROJECT NUMBER
26399.005

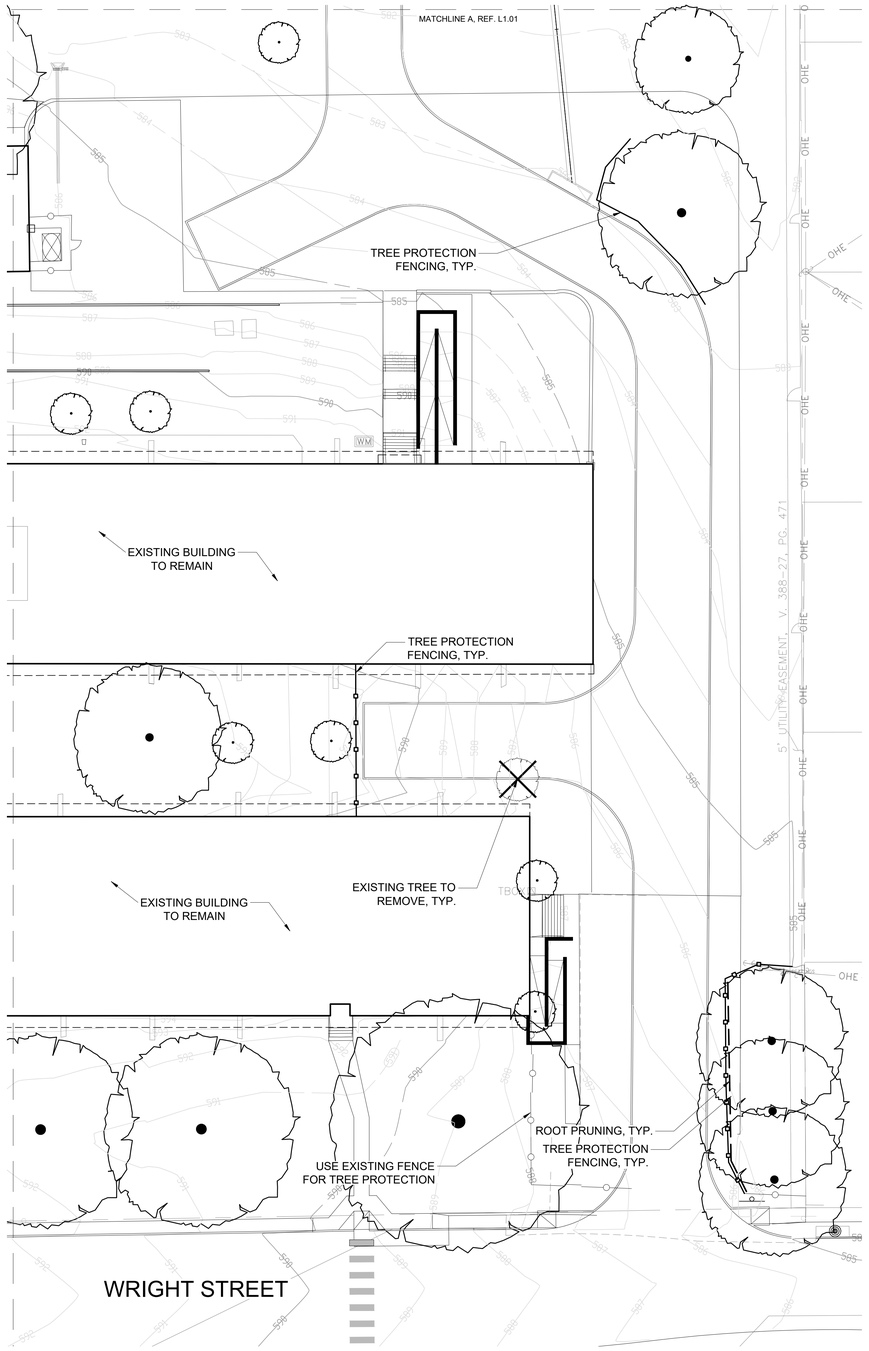
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SHEET TITLE
TREE CONSERVATION AND REMOVAL PLAN ENLARGEMENT

SHEET NO.
L1.01

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1 WIMBISH ELEMENTARY - TREE CONSERVATION AND REMOVAL PLAN
1" = 20'-0"

0 10 20 40ft
NORTH

TREE PROTECTION:
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NOTE: CONTRACTOR TO REPAIR ALL DISTURBED AREAS INCLUDING PLANTING AND IRRIGATION CAUSED BY CONSTRUCTION INCLUDING UTILITY WORK, LAYDOWN AREAS, MATERIAL STORAGE, GRADING, PARKING, ETC.

TREE CONSERVATION AND REMOVAL LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO REMOVE
- TREE PROTECTION FENCING, CHAIN LINK, REF. L1.03 FOR DETAILS
- ROOT PRUNING

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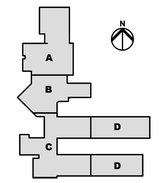
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT
JACQUELYN CLARK SZAFRANIEC
3765
STATE OF TEXAS
03/30/2026



KEY PLAN

REVISION

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

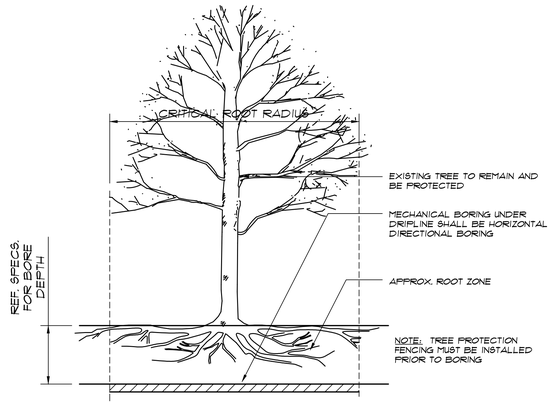
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SHEET TITLE
TREE CONSERVATION AND REMOVAL PLAN ENLARGEMENT

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L1.02

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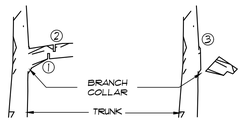
6 BORING UNDER OR NEAR CROWN DRIPLINE - SECTION
NOT TO SCALE

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

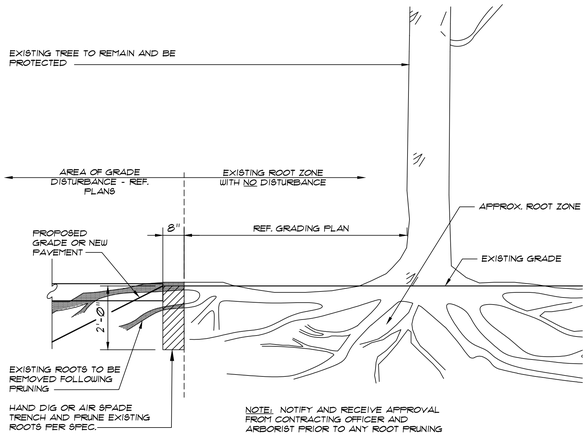
STEP 1: SAW BOTTOM CUT APPROX. 6-12" AWAY FROM TRUNK AND APPROX. ¼ OF THE WAY THROUGH THE LIMB.
STEP 2: MAKE A SECOND CUT APPROX. 3" FURTHER FROM THE TRUNK THAN THE FIRST CUT UNTIL THE WEIGHT OF THE BRANCH FULLS THE BRANCH DOWN.
STEP 3: CUT THE STUB BACK TO THE COLLAR OF THE BRANCH - DO NOT CUT FLUSH WITH TRUNK.

REMOVE AND DISPOSE OF ALL BRANCHES PER NOTES ON SHEET L1.0 AND SPECIFICATIONS.

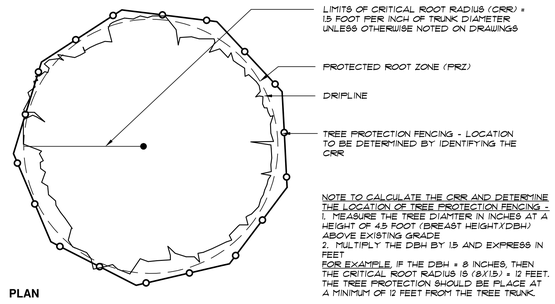
NOTE: PRIOR TO LIMB REMOVAL ON EXISTING TREES, GET WRITTEN PERMISSION AND FIELD VERIFICATION FROM OWNER'S REPRESENTATIVE.



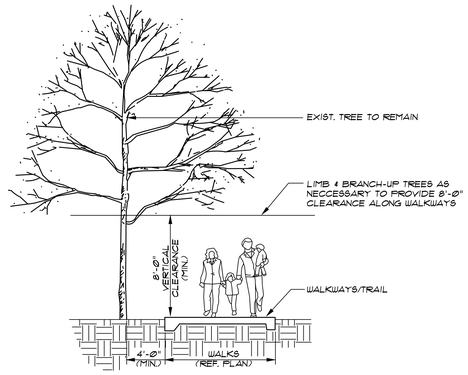
7 3-CUT LIMB PRUNING
NOT TO SCALE



8 ROOT PRUNING AT EXISTING TREES - SECTION
NTS



4 TREE PROTECTION FENCING - CHAIN LINK FENCE
NOT TO SCALE

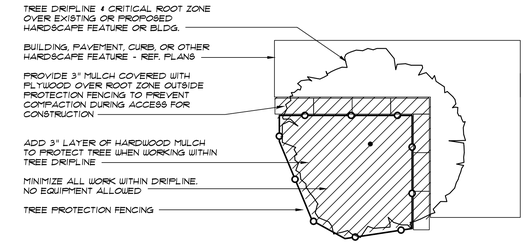


5 TREE CLEARANCE AT WALK
NOT TO SCALE

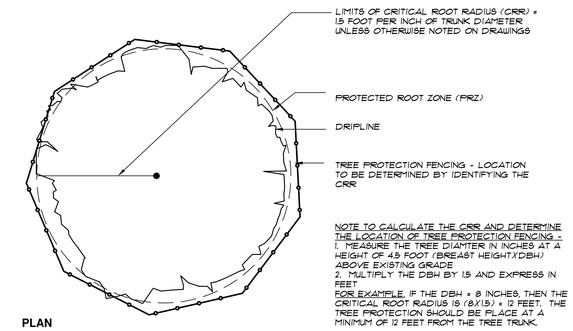
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TREE PROTECTION:
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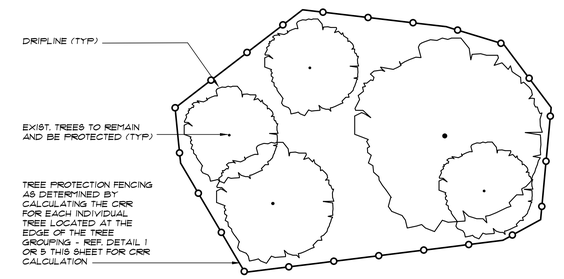
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4. NO PAVEMENT, PERVIOUS NOR IMPERVIOUS, SHALL BE INSTALLED BENEATH THE DRIP LINE OF A SIGNIFICANT STAND THAT INCLUDES CROSS TIMBER OAKS.



1 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE



2 TREE PROTECTION FENCING - ORANGE SAFETY FENCE
NOT TO SCALE



3 TREE PROT. FENCE NEAR CONSTRUCTION ACTIVITY
NOT TO SCALE

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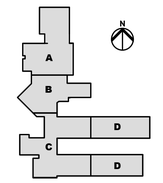
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT JACQUELYN CLARK SZAFRANIEC 3165 STATE OF TEXAS
03/30/2026



KEY PLAN

REVISION

HKS PROJECT NUMBER
26399.005

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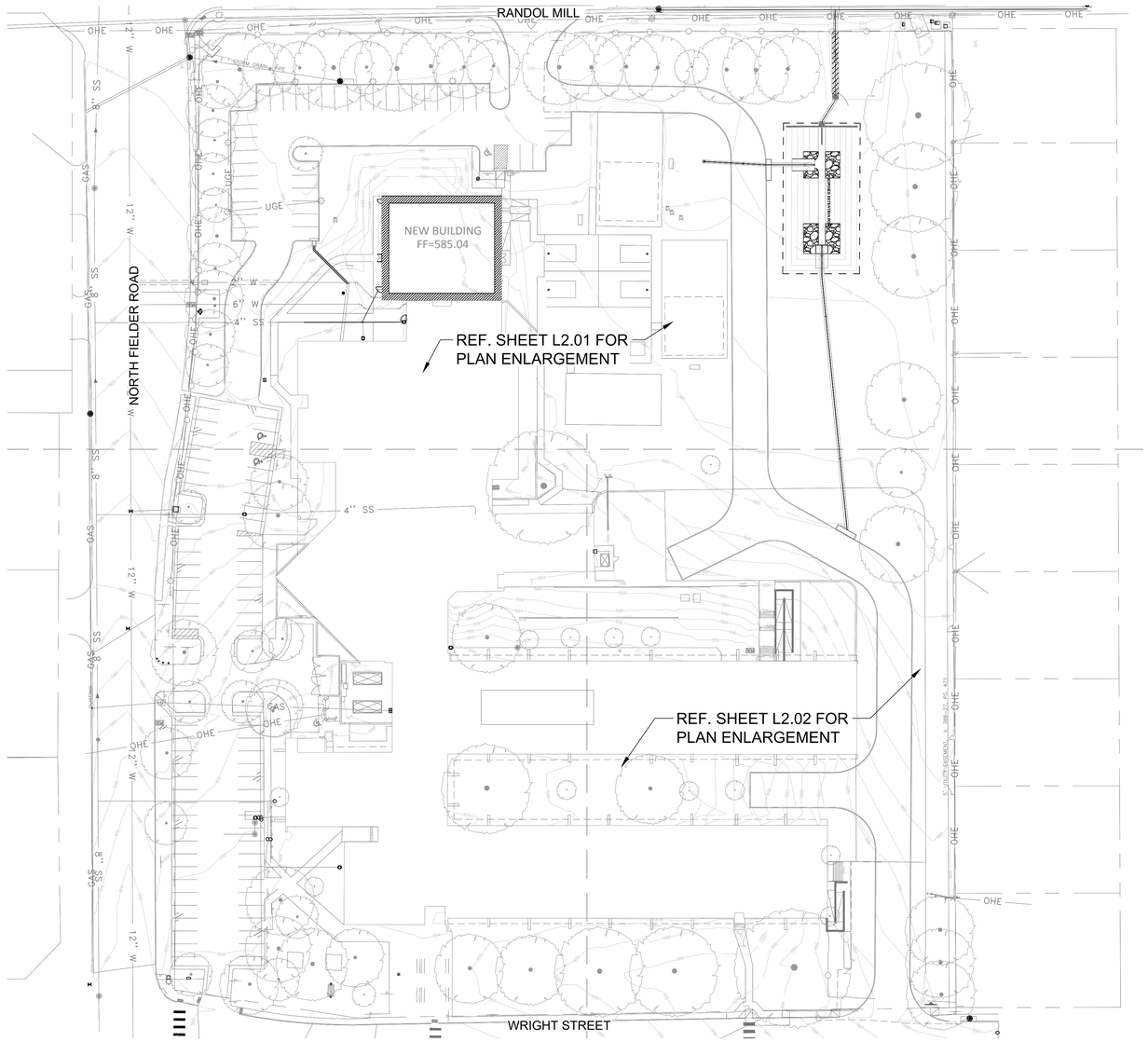
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SHEET TITLE
TREE CONSERVATION DETAILS

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1 WIMBISH ELEMENTARY - IRRIGATION KEY PLAN
1" = 40'-0"

0 20 40 80 NORTH

LEGEND

- RAIN BIRD 1806-PRS POP UP SPRAY HEAD WITH WITH ADAPTER AND RAINBIRD #1404 STREAM BUBBLER NOZZLE. (ONE PER TREE)
- TEMPORARY IRRIGATION LIMITS
- RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL "TREE BUBBLER" VALVE WITH SAME SIZE BALL VALVE
- RAINBIRD #33DLRC QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- 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

EQUIPMENT AND INSTALLATION SHALL MEET ALL ARLINGTON I.S.D. IRRIGATION REQUIREMENTS. L.I.C. SHALL COORDINATE WITH SCHOOL STANDARDS PRIOR TO CONSTRUCTION.

L.I.C. SHALL CONFIRM EXISTING METER, BACKFLOW PREVENTER, MASTER VALVE, AND CONTROLLER EQUIPMENT IS PRESENT AND IN PROPER WORKING CONDITION. ANY MISSING EQUIPMENT SHALL BE PROVIDED AND INSTALLED. ALL INOPERABLE EQUIPMENT SHALL BE REPLACED.

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:

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 / PRESSURE 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.

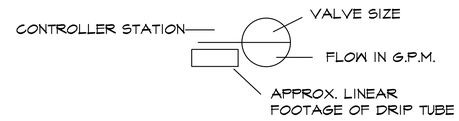
- NEW SHRUB AND GROUND COVER BEDS SHALL RECEIVE NEW IRRIGATION AS INDICATED ON THE PLAN, INSTALLED AS DIRECTED.
- DISTURBED TURF AREAS SHALL RECEIVE NEW IRRIGATION OR RENOVATIONS TO THE EXISTING SYSTEM, PROVIDING COMPLETE COVERAGE TO ALL AFFECTED AREAS.
- L.I.C. SHALL LOCATE AND CONNECT TO THE EXISTING 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.

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

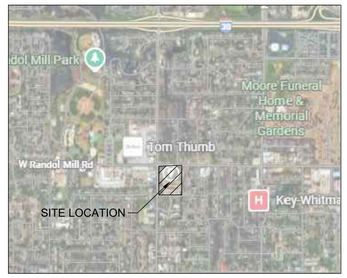
THE CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN AND PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF ALL PROPOSED PLANT MATERIALS LOCATED OUTSIDE THE LIMITS OF COVERAGE PROVIDED BY THE PERMANENT SYSTEM.



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EPA WaterSense PARTNER

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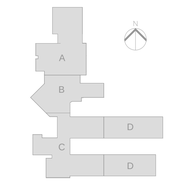
SITE MAP LOCATION
NTS

HKS
ARCHITECT
HKS INC.
350 N SAINT PAUL ST SUITE 100
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(214) 969-5599
CIVIL
MJ THOMAS ENGINEERING LLC
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
JAMES POLE
658
LICENSED IRRIGATOR
05 / 30 / 2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

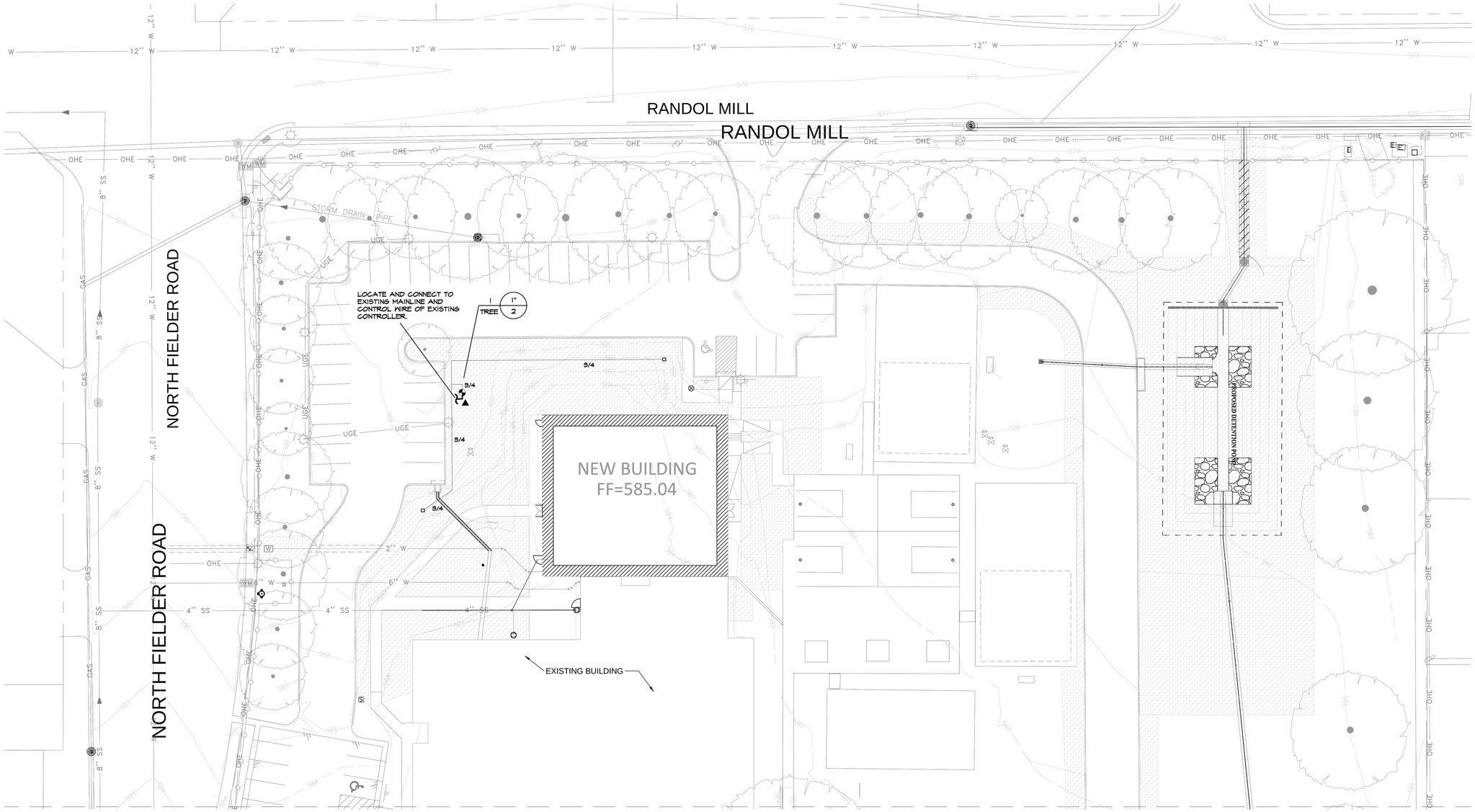
HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
IRRIGATION KEY PLAN

SHEET NO.
L2.00

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PLOT DATE: 3/4/2026 9:32:15 AM TEMPLATE VERSION: 23.0.4



1 WIMBISH ELEMENTARY - IRRIGATION PLAN

1" = 20'-0"

0 10 20 40ft NORTH

LEGEND

- RAIN BIRD 1806-PRS POP UP SPRAY HEAD WITH WITH ADAPTER AND RAINBIRD #1404 STREAM BUBBLER NOZZLE. (ONE PER TREE)
- TEMPORARY IRRIGATION LIMITS
- RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL "TREE BUBBLER" VALVE WITH SAME SIZE BALL VALVE
- RAINBIRD #33DLRC QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- 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

EQUIPMENT AND INSTALLATION SHALL MEET ALL ARLINGTON I.S.D. IRRIGATION REQUIREMENTS. L.I.C. SHALL COORDINATE WITH SCHOOL STANDARDS PRIOR TO CONSTRUCTION.

L.I.C. SHALL CONFIRM EXISTING METER, BACKFLOW PREVENTER, MASTER VALVE, AND CONTROLLER EQUIPMENT IS PRESENT AND IN PROPER WORKING CONDITION. ANY MISSING EQUIPMENT SHALL BE PROVIDED AND INSTALLED. ALL INOPERABLE EQUIPMENT SHALL BE REPLACED.

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:

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 / PRESSURE 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.
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CONTROLLER STATION — VALVE SIZE / FLOW IN G.P.M. / APPROX. LINEAR FOOTAGE OF DRIP TUBE

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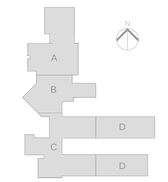
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS — LICENSED IRRIGATOR — LICENSE 658 — 09 / 30 / 2026

KEY PLAN



REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

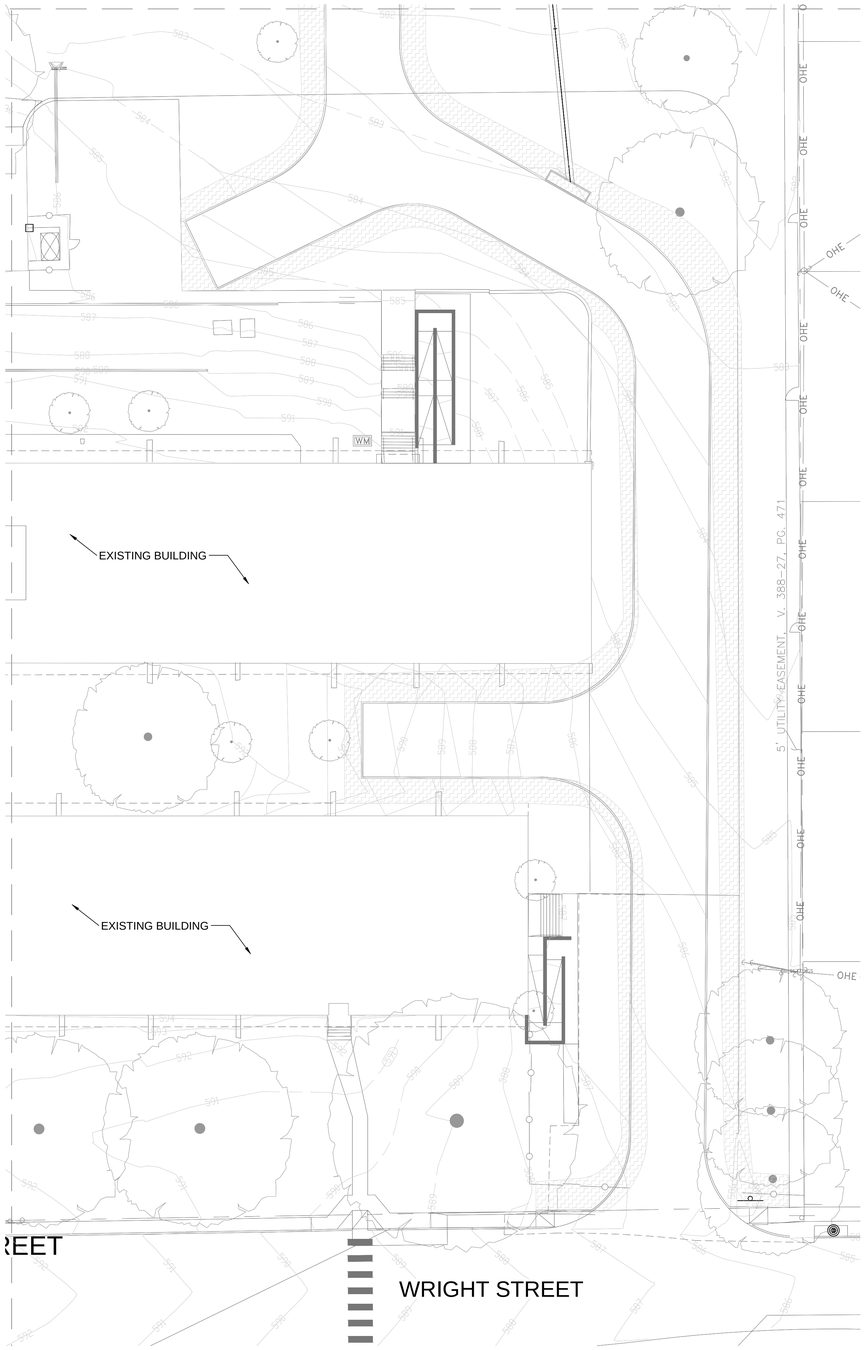
DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
IRRIGATION PLAN ENLARGEMENT

SHEET NO.
L2.01

PLOT DATE: 3/4/2026 9:52:15 AM TEMPLATE VERSION: 23.0.4



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1" = 20'-0"

0 10 20 40ft NORTH

LEGEND

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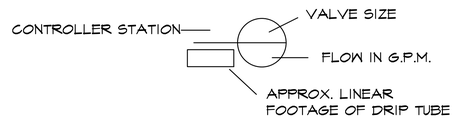
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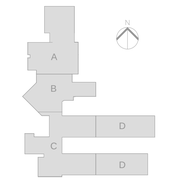
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS — JAMES POLE — 658 — LICENSED IRRIGATOR
08 / 30 / 2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
IRRIGATION PLAN ENLARGEMENT

SHEET NO.
L2.02

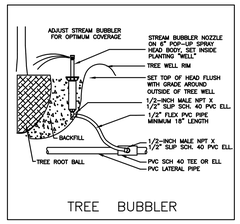
James Pole
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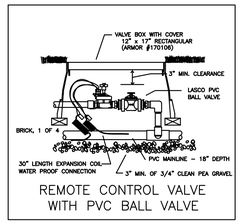
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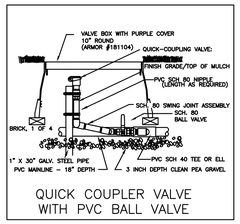
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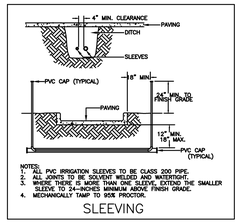
TREE BUBBLER



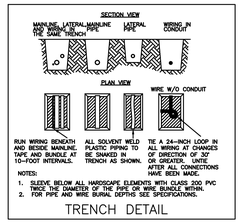
REMOTE CONTROL VALVE WITH PVC BALL VALVE



QUICK COUPLER VALVE WITH PVC BALL VALVE



SLEEVING



TRENCH DETAIL

ARLINGTON ISD IRRIGATION STANDARDS

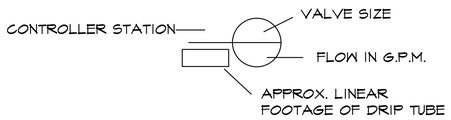
1. ALL IRRIGATION SUBCONTRACTORS SHALL BE LICENSED IRRIGATORS BY THE STATE OF TEXAS. THE LICENSED IRRIGATOR MUST REMAIN ON-SITE DURING INSTALLATION, REPAIR, AND INSPECTION.
2. MAIN LINES SHALL BE AWAY FROM BUILDINGS (AT LEAST 20 FEET WHERE POSSIBLE)
3. STANDARD EQUIPMENT
   - A. SPRAY HEADS - RAIN BIRD 1800 SERIES WITH BARBED JOINT FLEX PIPE RISER
   - B. ROTOR HEADS- HUNTER I-20 WITH 12" LASCO SWING JOINT
   - C. ELECTRIC VALVES - RAIN BIRD PEB ELECTRIC VALVES EACH WITH SAME SIZE BALL VALVE WITHIN ARMOR 12" X 17" BOX #170106
   - D. CONTROLLER - RAINBIRD ESP-LXD OR ESP-LXMEF DEPENDING ON IF IT IS A TWO WIRE SYSTEM OR CONVENTIONAL CONTROL SYSTEM (SEE DETAILS BELOW)
   - E. ALL METERS SHALL HAVE SAME SIZE DCVA WITH TORO P220-26-0-0 MASTER VALVE AND DATA INDUSTRIAL IR-220P FLOW SENSOR
   - F. QUICK COUPLERS- RAIN BIRD 3RC SPACED MAXIMUM 200' ON CENTER WITHIN BUILDING FIRE LANE LOOP WITHIN ARMOR 10" ROUND BOX #181104 WITH PURPLE LID
4. TREES SHALL BE SEPARATELY ZONED WITH (1) RAINBIRD BUBBLER WITH BARBED FLEX PIPE PER TREE
5. SHRUBS SHALL HAVE SEPARATE VALVE SYSTEM
6. REVIEW DRAWING(S) WITH ARLINGTON I.S.D. MAINTENANCE PERSONNEL PRIOR TO BIDDING
   - A. AFTER FIRST ROUND OF CITY COMMENTS LANDSCAPE ARCHITECT TO COMPLETE IRRIGATION DRAWINGS
   - B. ARCHITECT TO SCHEDULE MEETING WITH ARLINGTON I.S.D. AND LANDSCAPE ARCHITECT
7. CONSTRUCTION ADMINISTRATION INCLUDES PRE-BID, PRE-CONSTRUCTION, WEEKLY VISITS DURING CONSTRUCTION, FINAL PUNCH LIST AND VERIFICATION WALKTHROUGH WITH ARLINGTON I.S.D., ARCHITECT & LANDSCAPE ARCHITECT
   - A. LANDSCAPE ARCHITECT SHALL BE A PART OF (11) MONTH WALKTHROUGH WITH ARLINGTON I.S.D. AND ARCHITECT
8. EACH METER SHALL HAVE MAIN LINE LOOPS AND BE SEPARATED WITH ISOLATION VALVES
9. SPRAY HEAD POP-UPS SHALL BE 12" MIN FROM BUILDING WALLS, AND ROTOR HEADS SHALL BE 18" MIN FROM BUILDING WALLS, ALL HEAD TYPES SHALL BE 6A MIN FROM ALL PAVED SURFACES
10. IRRIGATION CONTROLLERS
    - A. CONTROLLER SHALL BE RAINBIRD ESP-LXD OR ESP-LXMEF DEPENDING ON THE SYSTEM TYPE
    - B. TEN (10) YEAR WARRANTY
    - C. WEATHER MONITORING DEVICES, SHARE DATA WITH CENTRAL COMPUTER BUT INDEPENDENT FOR NIGHT TIME CALCULATIONS.
    - D. WIRELESS WR2-RFC RAIN BIRD RAIN/FREEZE SENSORS SHALL BE INSTALLED
    - E. FLOW MANAGEMENT FOR OPTIMIZED WATERING WINDOWS
    - F. RADIO REMOTE CAPABILITY TO TROUBLE SHOOT AND MAKE CHANGES FROM THE FIELD
    - G. REPORTING CAPABILITY TO GIVE HISTORY LOGS, FLOW RATES, ALARMS AND SYSTEM BREAKS, AND WATER USAGE BROKEN OUT INTO VARIOUS CATEGORIES
    - H. ALL CONTROLLERS SHALL BE MOUNTED ON AN EXTERIOR WALL INSIDE THE MECHANICAL SERVICE YARD WITH ELECTRICAL J-BOX SET INTO BRICK WITH A SOLID PLATE. IRRIGATION CONTRACTOR TO HARDWIRE CONTROLLER INTO J-BOX INCLUDING GROUNDING WIRE
11. PROVIDE (4) QUICK COUPLER VALVE KEYS WITH HOSE SWIVEL ATTACHMENT
12. PROVIDE VALVE ZONE MAP AND TYPED ZONE LISTING AS PART OF CLOSE OUT DOCUMENTS AND SMALLER LAMINATED VERSION LOCATED IN CONTROLLER CABINET
13. ALL FLOW SENSOR WIRING SHALL BE SHIELDED CABLE 20 AWG, OR LARGER, COPPER CONDUCTORS TWISTED INTO PAIRS TO PREVENT CROSS TALK

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. VALVE WIRES OF ALL NEW VALVES SHALL BE ASSIGNED TO UNUSED STATIONS OF EXISTING CONTROLLER. IF CAPACITY OF EXISTING CONTROLLER IS NOT AVAILABLE FOR ALL NEW AND EXISTING VALVES, CONTROLLER SHALL BE UPGRADED. IF EXISTING CONTROLLER IS A "TWO-WIRE" CONTROLLER, ALL NEW VALVES SHALL REQUIRE SINGLE STATION DECODERS.
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 ARMOR 10" ROUND VALVE BOXES WITH PURPLE LID (ARMOR #181104) FOR QUICK COUPLING VALVES AND ARMOR 12" x 17" RECTANGULAR BOXES WITH BLACK / GREEN LIDS (ARMOR #170106) FOR ELECTRIC VALVES, UNLESS NOTED OTHERWISE. D.C.A., WITH UPSTREAM BALL VALVE AND NYE 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 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 Q.C. VALVES. (MINIMUM ONE SET).
12. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
13. 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.
14. 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

- RAIN BIRD 1806-PRS POP UP SPRAY HEAD WITH WITH ADAPTER AND RAINBIRD #1404 STREAM BUBBLER NOZZLE. (ONE PER TREE)
- TEMPORARY IRRIGATION LIMITS
- RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL "TREE BUBBLER" VALVE WITH SAME SIZE BALL VALVE
- RAINBIRD #33DLRC QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- 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

EQUIPMENT AND INSTALLATION SHALL MEET ALL ARLINGTON I.S.D. IRRIGATION REQUIREMENTS. L.I.C. SHALL COORDINATE WITH SCHOOL STANDARDS PRIOR TO CONSTRUCTION.

L.I.C. SHALL CONFIRM EXISTING METER, BACKFLOW PREVENTER, MASTER VALVE, AND CONTROLLER EQUIPMENT IS PRESENT AND IN PROPER WORKING CONDITION. ANY MISSING EQUIPMENT SHALL BE PROVIDED AND INSTALLED. ALL INOPERABLE EQUIPMENT SHALL BE REPLACED.

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:

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 / PRESSURE 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 NYE 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.

James Pole
IRRIGATION CONSULTANTS
IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT
TEXAS L.I.C. #658
P.O. BOX 1845
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

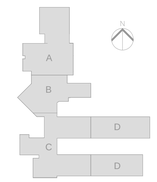
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
JAMES POLE
658
LICENSED IRRIGATOR
09 / 30 / 2026



KEY PLAN

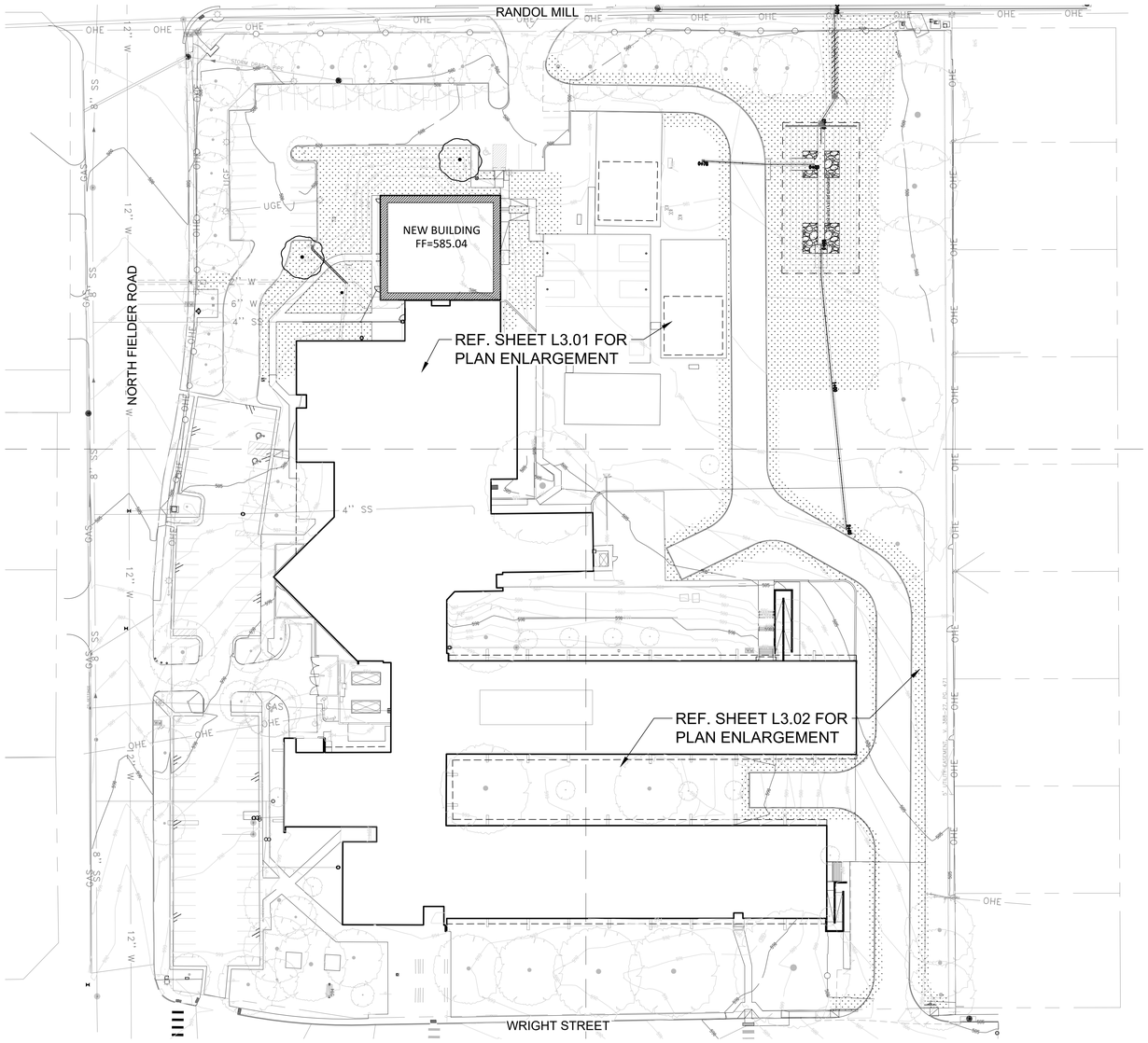
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HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
IRRIGATION DETAILS

SHEET NO.
L2.03

PLOT DATE: 3/4/2026 9:52:15 AM TEMPLATE VERSION: 23.0.4



1 WIMBISH ELEMENTARY - PLANTING KEY PLAN
1" 40'-0"

0 20 40 80 NORTH

NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.

NOTE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY ADDITIONAL TREES THAT HAVE DIED. ALL TREES SHOWN ON THE PLAN MUST BE IN A HEALTHY GROWING CONDITION PER CITY OF ARLINGTON CODE REQUIREMENTS IN ORDER TO OBTAIN PERMIT AND FINAL CLOSE OUT.

NOTE: CONTRACTOR TO REPAIR ALL DISTURBED AREAS INCLUDING PLANTING AND IRRIGATION CAUSED BY CONSTRUCTION INCLUDING UTILITY WORK, LAYDOWN AREAS, MATERIAL STORAGE, GRADING, PARKING, ETC.

LEGEND

TREES	CODE	COMMON NAME
		EXISTING TREE
	CE	CEDAR ELM

GROUND COVERS	CODE	COMMON NAME
	BG	SOLID SOD BERMUDAGRASS

5.1.3. EXISTING STRUCTURES

A change in use or external addition to a structure existing as of the effective date of this Code shall require compliance with all or portions of the design and development standards in this article to the maximum extent practicable, based on the following scaled implementation approach. See Section 5.8.1, *Entertainment District Overlay*, for additional applicability standards.

A. External Additions

Any external additions to an existing structure as calculated based on the total area of that structure (and not total area of all structures per lot), shall comply with the following:

1. Addition Less than 10 Percent

If the addition to a structure is less than 10 percent of the size of the entire structure, then the site shall comply with the following standards:

a. The following subsections of Section 5.3, *Screening, Buffering and Fences*, for the entire site:

(i) Subsection 5.3.1, *Residential Screening and Buffering* (if applicable);

(ii) Subsection 5.3.2, *Mechanical and Utility Equipment Screening*; and

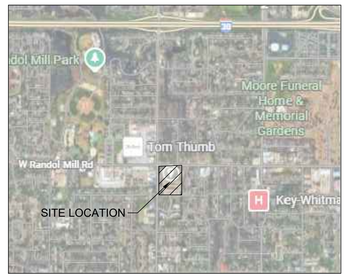
(iii) Subsection 5.3.3, *Screening of Service, Loading, and Storage Areas*.

b. If the structure is either non-residential or mixed-use, compliance with the street tree requirements of Section 5.2.2.B, *Perimeter Landscape Setback, Multi-Family and Non-Residential*, as applicable, for the entire frontage along public or private streets.

c. Section 5.4, *Off-Street Parking and Loading*, if the expansion triggers a recalculation of parking requirements (Section 5.4.2.B, *Expansions and Enlargements*).

d. Article 7, *Sign Standards*, if applicable to that addition.

REQUIRED LANDSCAPE PER CITY OF ARLINGTON URBAN DEVELOPMENT CODE (U.D.C.)			
FOR BUILDING ADDITONS UNDER 10%			
STREET TREE / BUFFER AND LANDSCAPE REQUIREMENT (U.D.C Article 5.2.2.B)			
RANDOL MILL - MINOR ARTERIAL (500 LF)	REQUIRED	PROVIDED	COMMENTS
BUFFER WIDTH	15 FT	Existing 15 FT	
STREET TREE REQUIREMENT			Existing Trees to Remain and be protected. (5.1.3.b)
4 INCH CALIPER TREE (45' o.c.) *Existing and Proposed Trees* *	11	17 Existing	3 Removed for Detention Pond
- Street Trees Minimum 4-feet From Curb	YES	YES	
LANDSCAPE PLANT REQUIREMENT	NOT REQUIRED		Only Street Trees are Required (5.1.3b)
GRASS COVERAGE LIMIT	NOT REQUIRED		
NORTH FIELD ROAD - MINOR ARTERIAL (670 LF)	REQUIRED	PROVIDED	COMMENTS
BUFFER WIDTH	15 FT	Existing 15 FT	
STREET TREE REQUIREMENT			Existing Trees to Remain and be protected. (5.1.3.b)
4 INCH CALIPER TREE (45' o.c.) *Existing and Proposed Trees* *	15	15 Existing	
- Street Trees Minimum 4-feet From Curb	YES	YES	
LANDSCAPE PLANT REQUIREMENT	NOT REQUIRED		Only Street Trees are Required (5.1.3b)
GRASS COVERAGE LIMIT	NOT REQUIRED		
SCREENING, BUFFERING, AND FENCES (U.D.C. ARTICLE 5.3)			
EAST PROPERTY LINE - SINGLE FAMILY BUFFER	REQUIRED	PROVIDED	COMMENTS
LEVEL 2 SCREENING AND BUFFERING	15-FT WIDTH	15-FT WIDTH	
EXISTING TREES	9	9 TO REMAIN	Existing Trees to Remain and be protected. (Residential Screen 5.1.3.b)
FENCE	6'-8' HEIGHT MASONRY, COMPOSITE, or CEDAR	EXISTING FENCE	Existing Fence to Remain (Residential Screen 5.1.3.a)
OFF-STREET PARKING AND LOADING (U.D.C. ARTICLE 5.4) Not Applicable			
SIGN STANDARDS (U.D.C. ARTICLE 7) Not Applicable			



SITE MAP LOCATION
NTS

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DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT JACQUELYN CLARK SZAFRANIEC 3165 STATE OF TEXAS
03/30/2026



KEY PLAN

REVISION

HKS PROJECT NUMBER
26399.005

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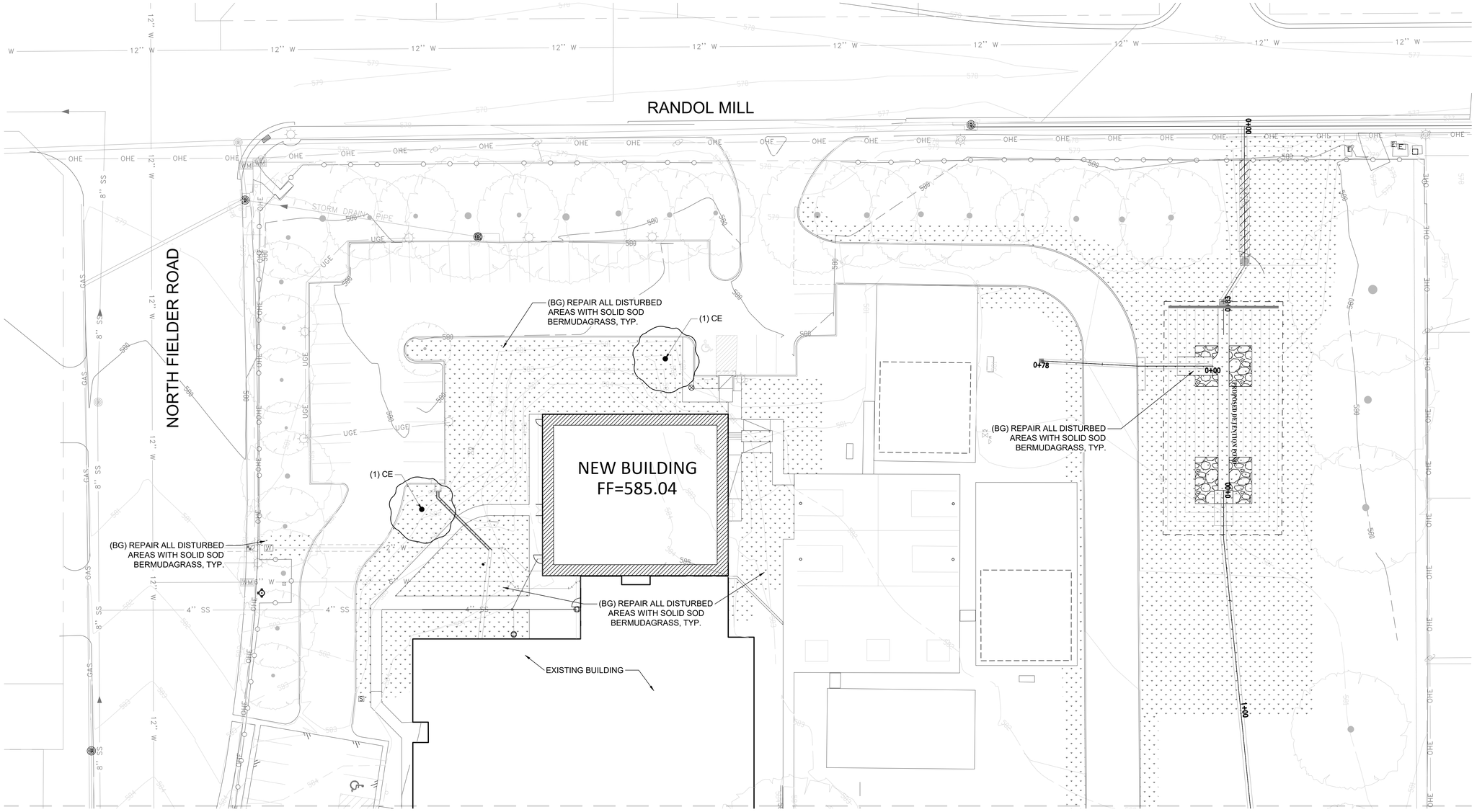
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SHEET TITLE
PLANTING KEY PLAN

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L3.00

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1 WIMBISH ELEMENTARY - PLANTING PLAN

1" 20'-0"

0 10 20 40

NORTH

NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.

NOTE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY ADDITIONAL TREES THAT HAVE DIED. ALL TREES SHOWN ON THE PLAN MUST BE IN A HEALTHY GROWING CONDITION PER CITY OF ARLINGTON CODE REQUIREMENTS IN ORDER TO OBTAIN PERMIT AND FINAL CLOSE OUT.

NOTE: CONTRACTOR TO REPAIR ALL DISTURBED AREAS INCLUDING PLANTING AND IRRIGATION CAUSED BY CONSTRUCTION INCLUDING UTILITY WORK, LAYDOWN AREAS, MATERIAL STORAGE, GRADING, PARKING, ETC.

LEGEND

TREES	CODE	COMMON NAME
		EXISTING TREE
	CE	CEDAR ELM

GROUND COVERS	CODE	COMMON NAME
	BG	SOLID SOD BERMUDAGRASS

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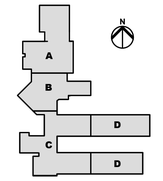
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT
JACQUELYN CLARK SZAFRANIEC
STATE OF TEXAS
3165

Jacquelyn Clark Szafranic
03/30/2026



KEY PLAN

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DATE
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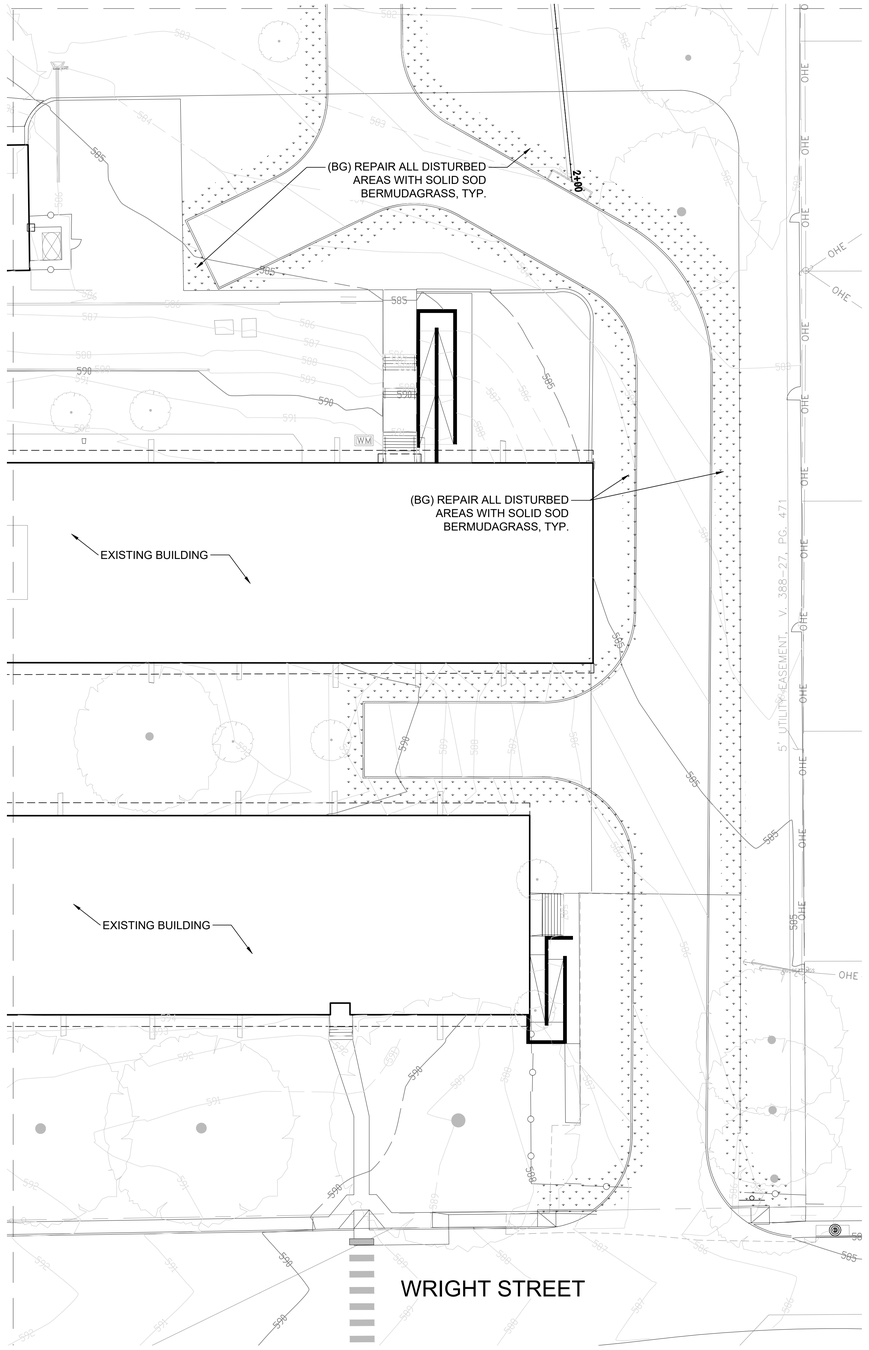
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1 WIMBISH ELEMENTARY - PLANTING PLAN
1" 20'-0"

0 10 20 40 NORTH

NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.

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LEGEND

TREES	CODE	COMMON NAME
		EXISTING TREE
	CE	CEDAR ELM

GROUND COVERS	CODE	COMMON NAME
	BG	SOLID SOD BERMUDAGRASS

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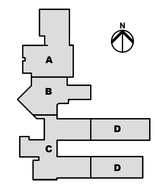
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED LANDSCAPE ARCHITECT JACLYN CLARK SZAJKOWSKI 3165 STATE OF TEXAS

Jaclyn Clark Szajkowski 03/30/2026



KEY PLAN

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HKS PROJECT NUMBER
26399.005

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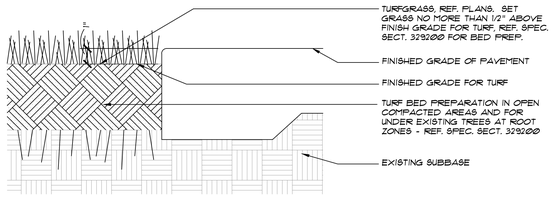
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4 LAWN AT PAVEMENT - SECTION
NTS

PREPARE TREE AS PER SPECIFICATION SECTION 32 93 00 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.

NOTE: DO NOT PARK, DRIVE, ETC. BENEATH ANY EXISTING TREE TO REMAIN, INCLUDING THOSE NOT SHOWN WITH TREE PROTECTION FENCING. ALL EXISTING TREES TO REMAIN ON SITE SHALL BE PROTECTED, WHETHER OR NOT FENCING IS SHOWN.

NOTE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY ADDITIONAL TREES THAT HAVE DIED. ALL TREES SHOWN ON THE PLAN MUST BE IN A HEALTHY GROWING CONDITION PER CITY OF ARLINGTON CODE REQUIREMENTS IN ORDER TO OBTAIN PERMIT AND FINAL CLOSE OUT.

NOTE: CONTRACTOR TO REPAIR ALL DISTURBED AREAS INCLUDING PLANTING AND IRRIGATION CAUSED BY CONSTRUCTION INCLUDING UTILITY WORK, LAYDOWN AREAS, MATERIAL STORAGE, GRADING, PARKING, ETC.

PLANT AND MATERIAL SCHEDULE

TREES	CODE	COMMON NAME / BOTANICAL NAME	CONT	CAL	SIZE	REMARKS	QTY
	CE	CEDAR ELM / ULMUS CRASSIFOLIA	B&B	3" CAL. MIN.	11'-13'H X 4'-6'W MIN.	FULL, WELL BRANCHED, VERTICAL GROWTH HABIT	2

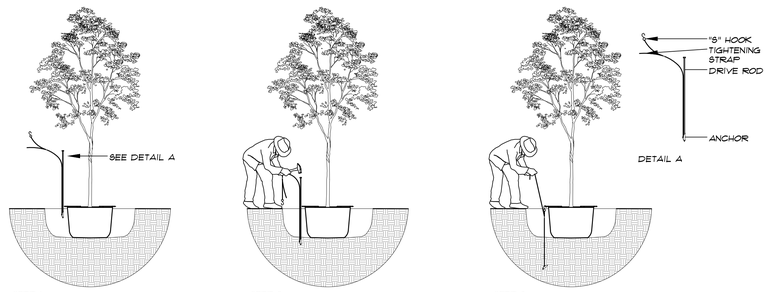
NOTE: QUANTITIES ARE APPROXIMATE, FIELD VERIFY. ALL DISTURBED AREAS TO BE GRASSED AND SOIL PREPARED PER SPECIFICATIONS.
NOTE: SAMPLES / SUBMITTALS TO BE PROVIDED TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.

GROUND COVERS	CODE	COMMON NAME / BOTANICAL NAME	CONT	REMARKS	QTY
	BG	BERMUDA GRASS / CYNODON DACTYLON 'TIFFWAY 419'	SOD	SOLID SOD, REF. SPEC 329200	+/- 46,000 SF

LAWN / TURF GRASS: NOTE - FIELD VERIFY ALL QUANTITIES, ALL DISTURBED AREAS TO BE GRASSED, REFER TO DETAILS AND SPECS

TOPSOIL - LAWN / TURF GRASS	1 1/2" DEPTH	MANUFACTURED OR STOCKPILED TOPSOIL, REF. SPEC SECT 32 9200	FIELD VERIFY
COMPOST - LAWN / TURF GRASS	1/2" DEPTH	ORGANIC, WELL-DECOMPOSED, REF. SPEC SECT 32 9200	FIELD VERIFY
ORGANIC BIOLOGICAL FERTILIZER		MATERIAL AND APPLICATION RATE, REF. SPEC SECT 32 9200	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 SUBMITTALS 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.



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

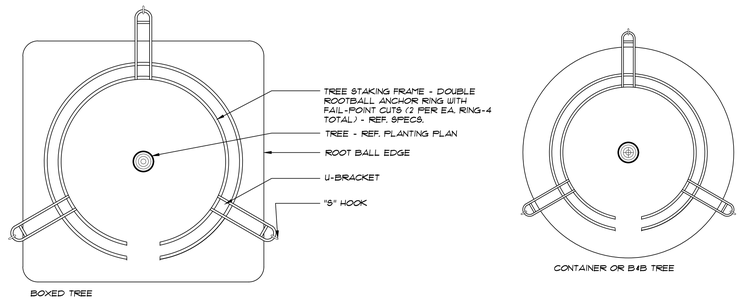
STEP 2:
- DRIVE ANCHOR STRAIGHT DOWN INTO UNDISTURBED SUBBASE SOIL AT MINIMUM OF 18" TO 24" DEPTH
- SEE CHART FOR RECOMMENDED DEPTHS PER TREE SIZE

STEP 3:
- REMOVE DRIVE ROD
- REPEAT STEPS 1 & 2 FOR ALL THREE (3) ANCHOR LOCATIONS
- PULL BACK ON STRAP APPROXIMATELY 3" FOR THE V-88 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

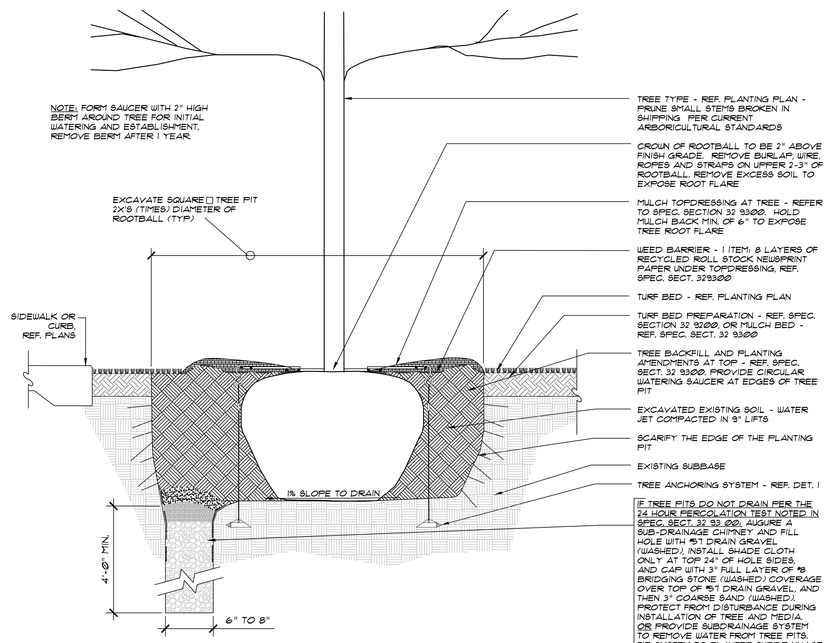
OPTIONAL ANCHORING SEQUENCES:
A. FOR ANCHOR INSTALLATION PRIOR TO TREE INSTALLATION - ANCHORS MAY BE PLACE, PER THE ROOT BALL DIAMETER, AND INSTALLED FROM THE BOTTOM OF THE EXCAVATED TREE PIT TO ENSURE THE DEPTH OF THE ANCHORS MEET THE REQUIRED 18" TO 24" DEPTH INTO UNDISTURBED SOILS.

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.

1 TREE ANCHORING
NTS



2 TYPICAL TREE GROUND ANCHORNG - PLANS
NTS



3 TREE PLANTING IN TURF - SECTION
NTS

PLOT DATE: 3/6/2026 8:52:17 AM TEMPLATE VERSION: 2.0.0.4

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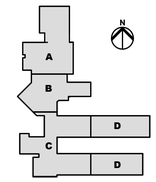
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WIMBISH WORLD LANGUAGE ACADEMY

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KEY PLAN

REVISION

HKS PROJECT NUMBER
26399.005

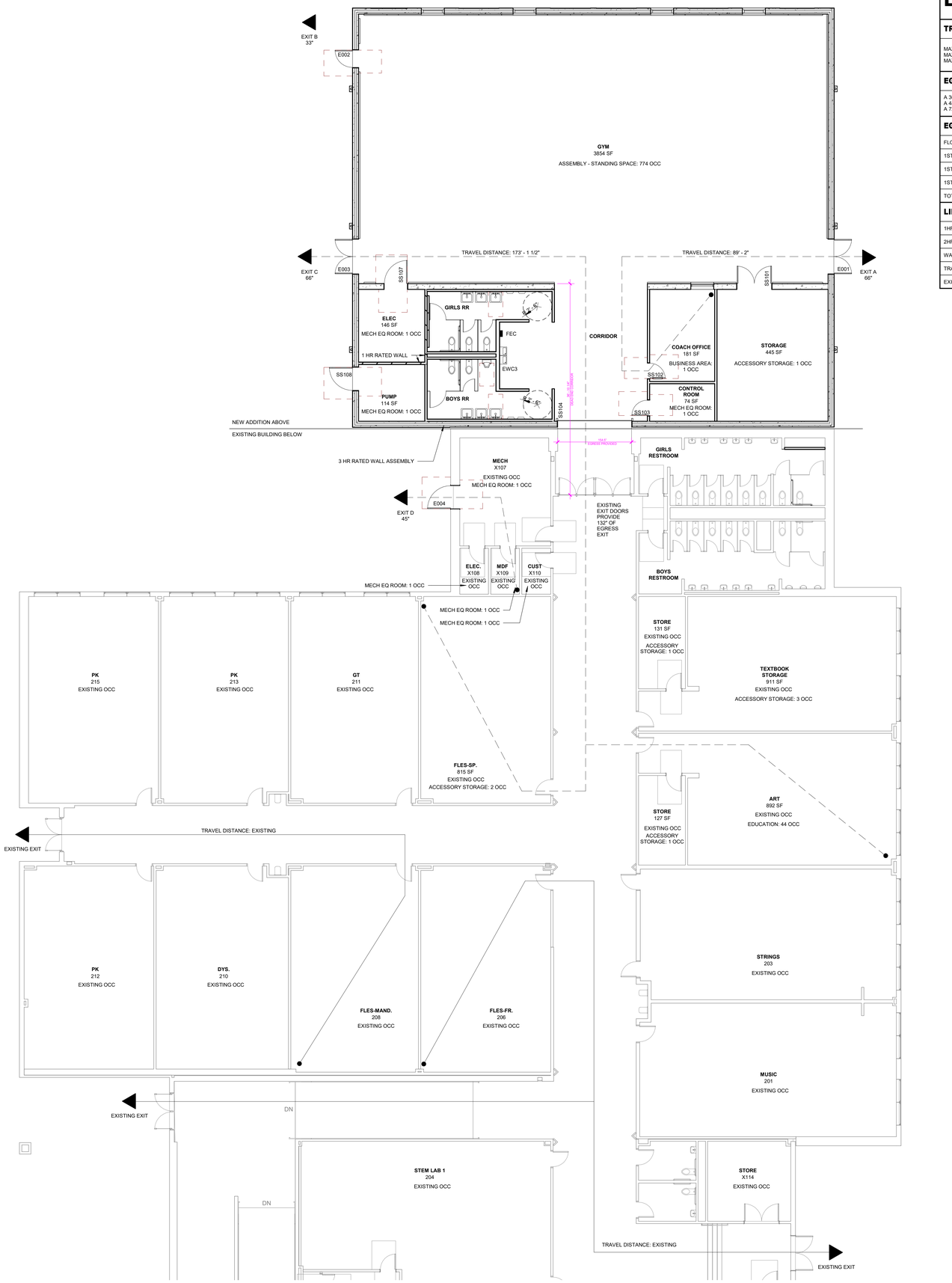
DATE
04-27-2026

ISSUE
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SHEET TITLE
PLANTING SCHEDULE AND DETAILS

SHEET NO.
L3.03

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N

01 LIFE SAFETY - FLOOR PLAN

1/8" = 1'-0"

LIFE SAFETY INFORMATION

TRAVEL DISTANCES

MAX TRAVEL DISTANCE ALLOWED BY CODE IS 250' IN A SPRINKLED BUILDING
MAX DEAD END CORRIDOR DISTANCE ALLOWED BY CODE IS 50' IN A SPRINKLED BUILDING
MAX COMMON PATH OF TRAVEL DISTANCE ALLOWED BY CODE IS 75' IN A SPRINKLED BUILDING

EGRESS USABLE WIDTHS

A 36" DOOR PROVIDES 33" OF USABLE EXIT WIDTH CAPABLE OF HANDLING 220 OCC.
A 48" DOOR PROVIDES 45" OF USABLE EXIT WIDTH CAPABLE OF HANDLING 300 OCC.
A 72" DOOR PROVIDES 66" OF USABLE EXIT WIDTH CAPABLE OF HANDLING 440 OCC.

EGRESS INFORMATION AND CALCS

FLOOR	OCCUPANTS	DOOR EXIT CAPACITY REQUIRED IN INCHES (.15)	DOOR EXIT CAPACITY PROVIDED
1ST LEVEL - GYM ADDITION	779	117"	165"
1ST LEVEL - EXISTING SCHOOL	52 (DISTRIBUTED)	EXISTING	EXISTING
1ST LEVEL - EXISTING SCHOOL	3 (DISTRIBUTED)	32"	45"
TOTAL	834	149"	210"

PLUMBING FIXTURE INFORMATION & COUNT(EDUCATION)

	TOILET FIXTURE REQ.		SINK REQ.		DRINKING FOUNTAINS			
RATIO(S)	1/50 MALE	1/50 FEMALE	1/50 MALE	1/50 FEMALE	1/100		1 REQ.	
	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.
OCCUPANTS: 390 MALE; 390 FEMALE	8	13	8	11	8	9	8	9	9	21	1	1		

LIFE SAFETY LEGEND

1HR FIRE RATED WALL	
2HR FIRE RATED WALL	
WALL MOUNTED FIRE EXTINGUISHER CABINET	
TRAVEL DISTANCE FROM THE MOST REMOTE POINT(S) TO THE CLOSEST EXIT	
EXIT SYMBOL	

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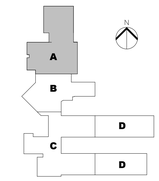
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SEAL & SIGNATURE

REGISTERED ARCHITECT — WAYNE REYNOLDS — 27171 — STATE OF TEXAS

04-24-2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

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SHEET TITLE
LIFE SAFETY PLAN - GYM ADDITION

SHEET NO.
ALS.01

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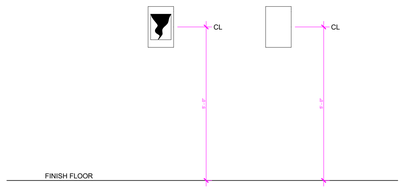
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STORM SHELTER SIGNAGE

SCALE: 1/2" = 1'-0"

CONTRACTOR INSTALLED

ALL SIGNS SHALL COMPLY WITH THE VISUAL CHARACTER REQUIREMENTS OF ICC A117.1



ALL STORM SHELTER SIGNAGE TO BE MOUNTED 5' - 0" ABOVE FINISH FLOOR AT THE CENTERLINE OF THE SIGN

STORM SHELTER INFORMATION

ICC500 - 2020 CODE NOTES

1. THE PROPOSED COMMUNITY TORNADO SHELTER HAS BEEN SITED IN AN AREA THAT IS NOT SUSCEPTIBLE TO FLOODING AND THE FINISH ELEVATION IS IN COMPLIANCE WITH ICC 500-2020.

2. ALL DOOR OPENINGS PENETRATING THE ENVELOPE OF THE TORNADO SHELTER EXTERIOR AND INTERIOR DOOR ASSEMBLIES (DOOR, FRAME, AND HARDWARE) THAT ALLOW INGRESS/ EGRESS FROM THE TORNADO SHELTER WILL MEET OR EXCEED ICC 500-2020 REQUIREMENTS FOR FABRICATION AND INSTALLATION.

3. ALL EXTERIOR MOUNTED LOUVER ASSEMBLIES AT WALL PENETRATIONS WILL MEET OR EXCEED ICC 500-2020 REQUIREMENTS FOR FABRICATION AND INSTALLATION.

4. FOR REQUIRED TORNADO SHELTER SIGNAGE, REFER TO ALS.02

5. REFER MEP FOR REQUIRED TORNADO SHELTER MECHANICAL, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS AND SEQUENCE OF OPERATION.

AS ALLOWED BY TEA. FOR THE PURPOSES OF THIS STORM SHELTER, THE INSTRUCTIONAL CAPACITY IS 442 OCCUPANTS. 442*(1.10) = 487 DESIGN OCCUPANT CAPACITY

REQUIRED USABLE SPACE CALCS

CATEGORY	MIN. SF MULTIPLE	MIN REQ. USABLE FLOOR AREA IN SF
OCC WHO ARE STANDING OR SEATED	5X	2435 SF
OCC USING A WHEELCHAIR	10X	60 SF
OCC WHO ARE RELOCATED IN BED OR STRETCHER	30X	0 SF
REQUIRED USABLE SPACE FOR 487 OCCUPANTS		**2495 SF REQUIRED FOR STORM SHELTER**
EACH STORM SHELTER SHALL BE SIZED TO ACCOMODATE A MINIMUM OF ONE WHEELCHAIR SPACE FOR EVERY 200 STORM SHELTER OCCUPANTS.		

PROVIDED USABLE SPACE CALCS

CATEGORY	ACTUAL SF	REDUCTION FACTOR	USABLE SF
AREA OF CONCENTRATED FURNISHING. 50% REDUCTION	421.37	.50	210.68 SF
AREA OF UNCONCENTRATED FURNISHING. 35% REDUCTION	177.91	.35	115.64 SF
AREA OF OPEN PLANNING. 15% REDUCTION	4364.1	.15	3700.98 SF
TOTAL PROVIDED USABLE SPACE			**4027.3 SF USABLE PROVIDED FOR STORM SHELTER**

USABLE STORM SHELTER AREA LEGEND

AREA OF CONCENTRATED FURNISHING. 50% REDUCTION	
AREA OF UNCONCENTRATED FURNISHING. 35% REDUCTION	
AREA OF OPEN PLANNING. 15% REDUCTION	
AREA NOT USED	

STORM SHELTER PLUMBING FIXTURE INFORMATION & COUNT

	TOILET FIXTURE REQ.		SINK REQ.	
RATIO(S)	1/250 FOR FIRST 500. 1 PER 500 OCC AFTER FIRST 500 OCC		1/1000	
	REQ.	PROV.	REQ.	PROV.
	2	6	1	6



CONTRACTOR FURNISHED, CODE REQUIRED SIGNAGE

05 TORNADO SHELTER SIGN 508.6
1" = 1'-0"

CONTRACTOR

TORNADO SHELTER

DESIGN WIND SPEED: 250MPH

2020 ICC 500

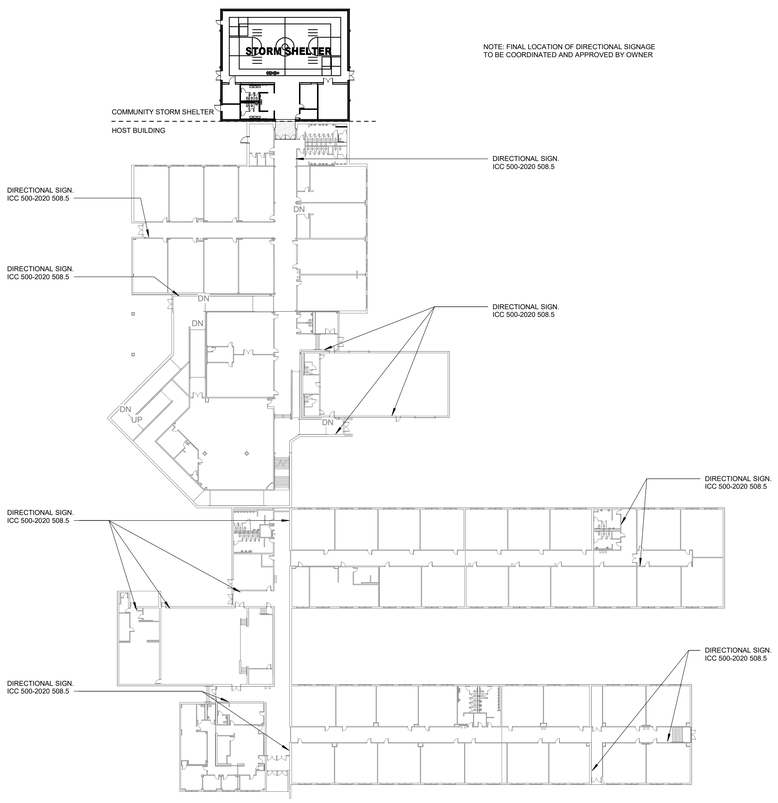
OCC LOAD

04 TORNADO SHELTER DESIGN INFORMATION 508.2
1" = 1'-0"

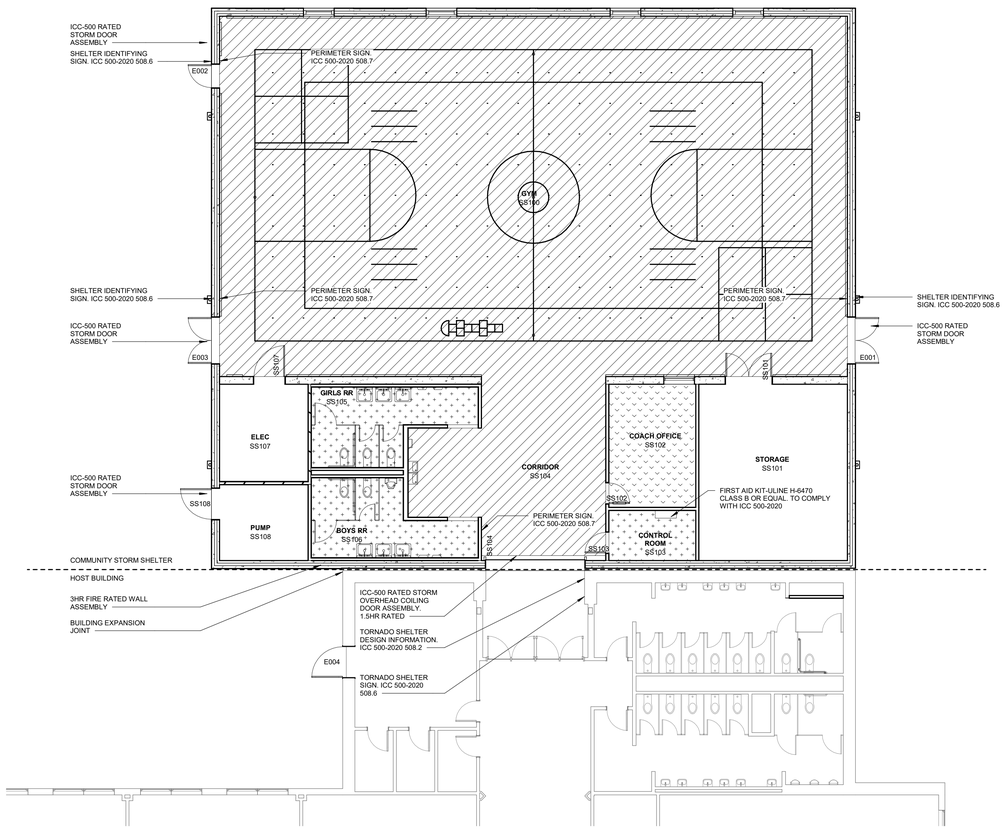
NOTICE:

NOW LEAVING THE TORNADO SHELTER

03 PERIMETER SIGNAGE 508.7
1" = 1'-0"



02 STORM SHELTER SIGNAGE LOCATIONS
1" = 40'-0"



01 LIFE SAFETY - STORM SHELTER
1/8" = 1'-0"

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STRUCTURAL

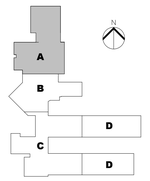
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WIMBISH WORLD LANGUAGE ACADEMY

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04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
LIFE SAFETY PLAN - STORM SHELTER

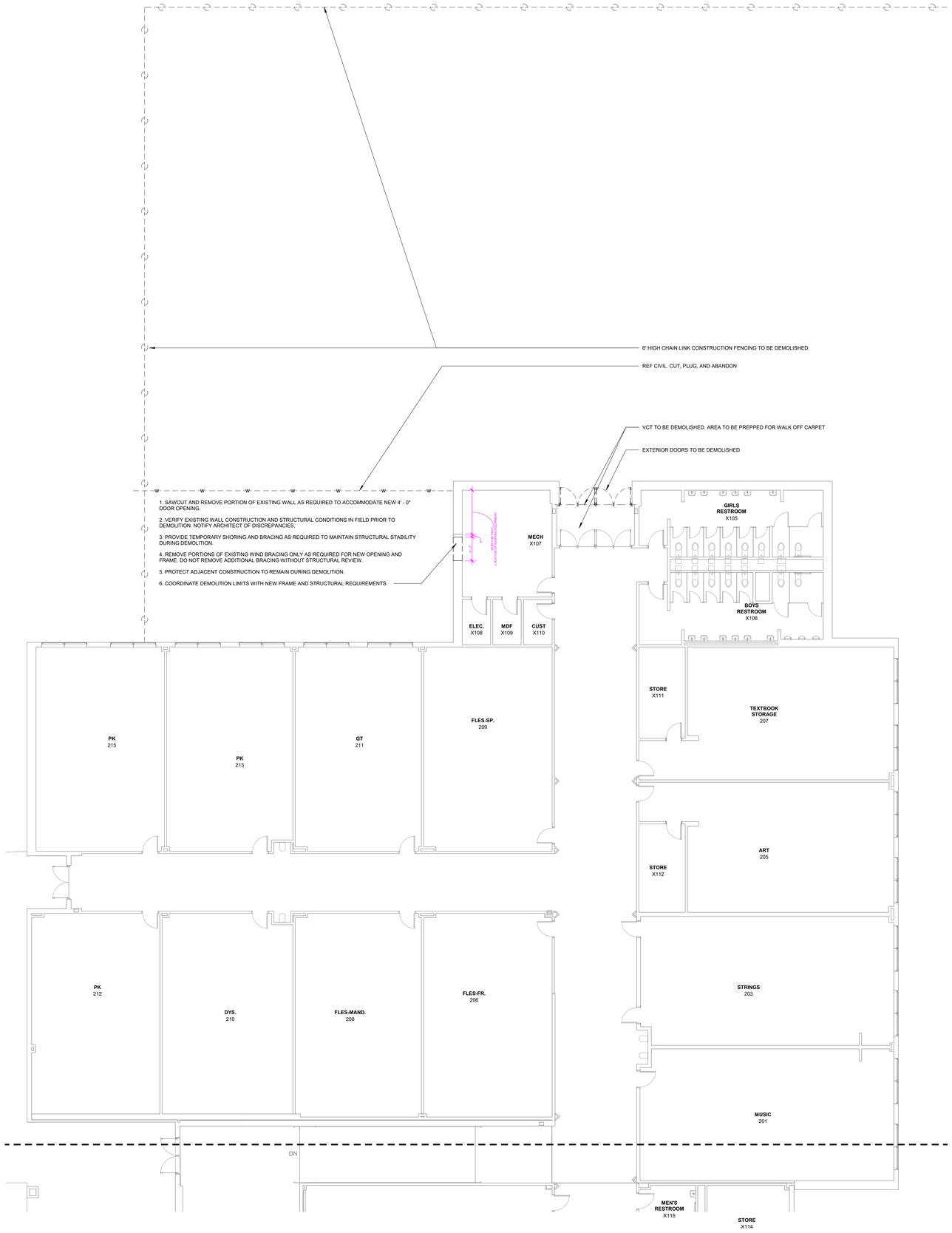
SHEET NO.
ALS.02

DEMO CEILING SYMBOLS LEGEND

_ _ _ _	ITEMS SHOWN DASHED ARE TO BE REMOVED
———	ITEMS SHOWN SOLID ARE TO BE REMAIN

DEMOLITION GENERAL NOTES - STRUCTURAL FOUNDATION

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING DEMOLITION. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DEMOLITION DRAWINGS TO BE IDENTIFIED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
2. REMOVE EXISTING SLAB AND ASSOCIATED GRAVEL FILL, GRADE BEAMS, AND SPREAD FOOTINGS.
3. REMOVE ALL UNDER-BUILDING UTILITIES. REFER TO CIVIL FOR UNDERGROUND UTILITY DEMOLITION OUTSIDE OF BUILDING FOOTPRINT.
4. EXISTING FOUNDATION TYPES ARE UNKNOWN. CONTRACTOR TO ASSUME SPREAD FOOTINGS AT EACH CORNER AND AT EACH EXISTING INTERIOR COLUMN WITH GRADE BEAMS SPANNING BETWEEN FOOTINGS. CONTRACTOR TO ASSUME EXISTING SPREAD FOOTINGS MUST BE COMPLETELY REMOVED. ACTUAL FOUNDATION DEMOLITION WILL DEPEND ON EXISTING CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
5. CONTRACTOR TO ASSUME SPREAD FOUNDATIONS FOR EACH CANOPY COLUMN AND SIGN COLUMN. CONTRACTOR TO ASSUME EACH SPREAD FOOTING MUST BE COMPLETELY REMOVED. ACTUAL FOUNDATION DEMOLITION WILL DEPEND ON EXISTING CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.



01 **DEMOLITION FLOOR PLAN - AREA A**
1/8" = 1'-0"

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REGISTERED ARCHITECT STATE OF TEXAS

04-24-2026

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
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SHEET TITLE
DEMOLITION FLOOR PLAN - AREA A

SHEET NO.
AD2.01

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DEMO CEILING SYMBOLS LEGEND

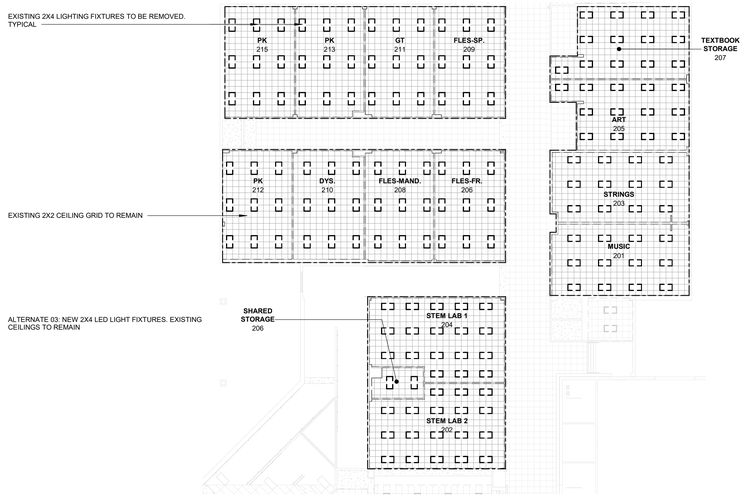
- ITEMS SHOWN DASHED ARE TO BE REMOVED
- ITEMS SHOWN SOLID ARE TO BE REMAIN

DEMOLITION GENERAL NOTES - STRUCTURAL FOUNDATION

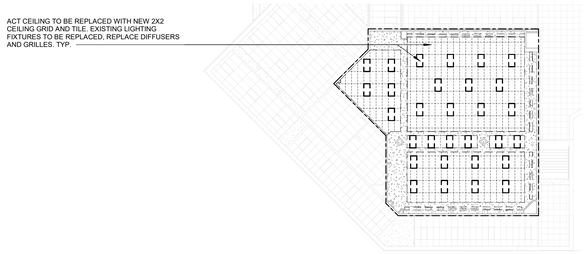
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2. REMOVE EXISTING SLAB AND ASSOCIATED GRAVEL FILL, GRADE BEAMS, AND SPREAD FOOTINGS.
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DEMOLITION KEYNOTES

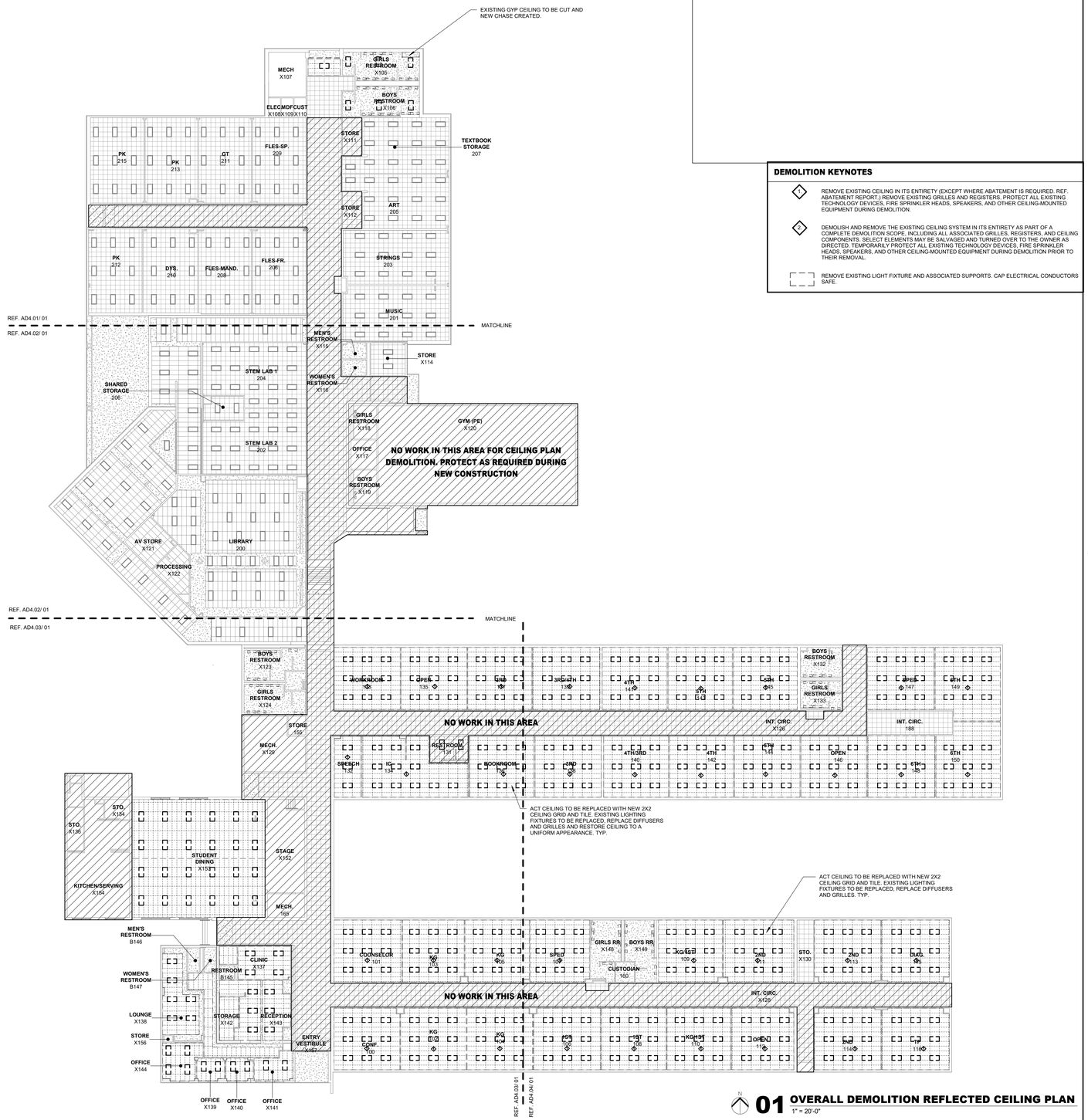
1. REMOVE EXISTING CEILING IN ITS ENTIRETY (EXCEPT WHERE ABATEMENT IS REQUIRED. REF. ABATEMENT REPORT.) REMOVE EXISTING GRILLES AND REGISTERS. PROTECT ALL EXISTING TECHNOLOGY DEVICES, FIRE SPRINKLER HEADS, SPEAKERS, AND OTHER CEILING-MOUNTED EQUIPMENT DURING DEMOLITION.
2. DEMOLISH AND REMOVE THE EXISTING CEILING SYSTEM IN ITS ENTIRETY AS PART OF A COMPLETE DEMOLITION SCOPE, INCLUDING ALL ASSOCIATED GRILLES, REGISTERS, AND CEILING COMPONENTS. SELECT ELEMENTS MAY BE SALVAGED AND TURNED OVER TO THE OWNER AS DIRECTED. TEMPORARILY PROTECT ALL EXISTING TECHNOLOGY DEVICES, FIRE SPRINKLER HEADS, SPEAKERS, AND OTHER CEILING-MOUNTED EQUIPMENT DURING DEMOLITION PRIOR TO THEIR REMOVAL.
- REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED SUPPORTS. CAP ELECTRICAL CONDUCTORS SAFE.



03 ALTERNATE 03
1" = 20'-0"



02 ALTERNATE 02
1" = 20'-0"



01 OVERALL DEMOLITION REFLECTED CEILING PLAN
1" = 20'-0"

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(214) 739-9105

MEP
SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

STRUCTURAL
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

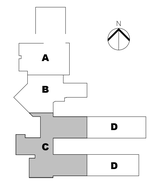
WIMBISH WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
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SHEET TITLE
OVERALL DEMOLITION REFLECTED CEILING PLAN

SHEET NO.
AD4.00

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DEMO CEILING SYMBOLS LEGEND

_ _ _ _	ITEMS SHOWN DASHED ARE TO BE REMOVED
———	ITEMS SHOWN SOLID ARE TO BE REMAIN

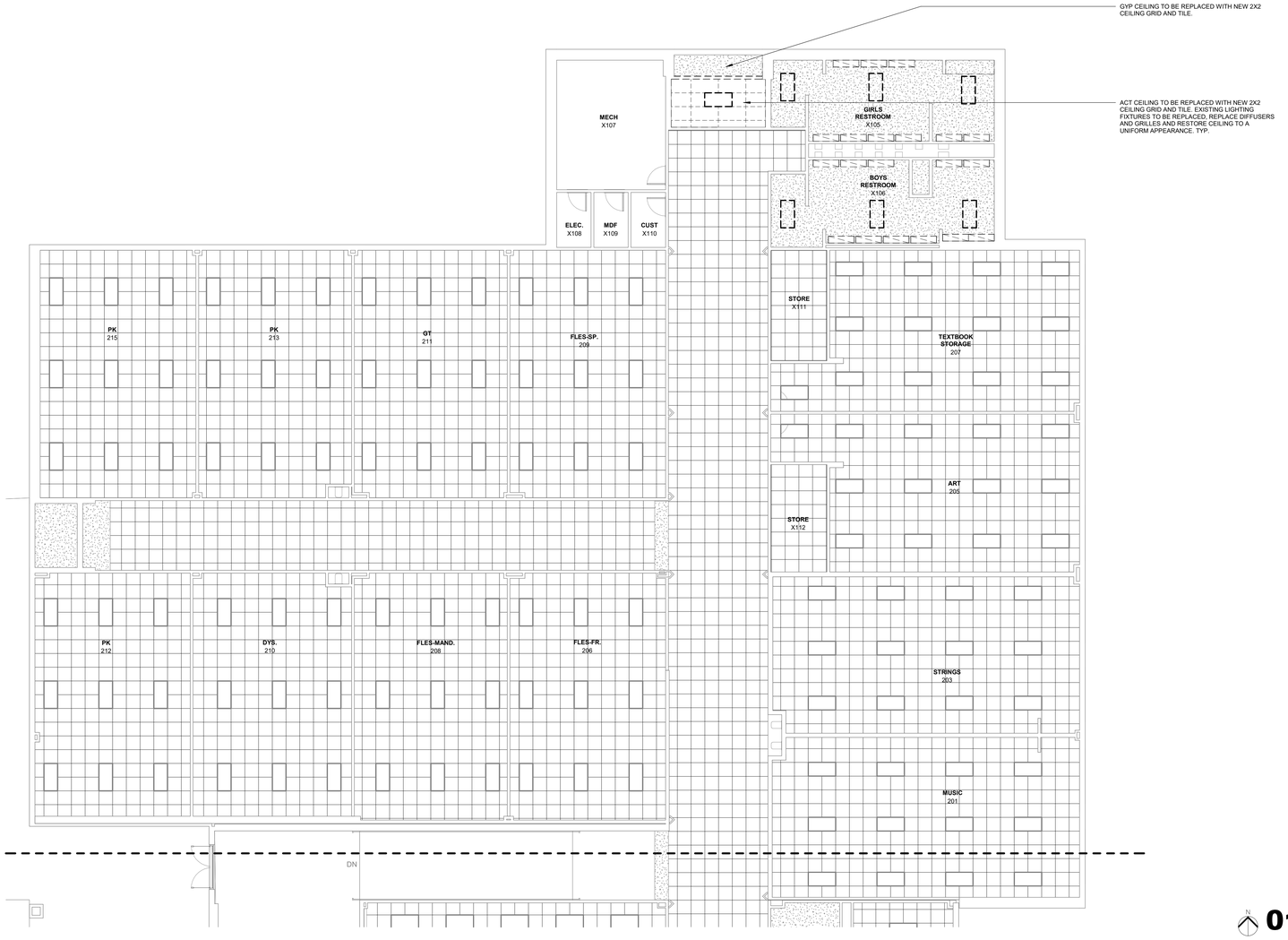
DEMOLITION GENERAL NOTES - STRUCTURAL FOUNDATION

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING DEMOLITION. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DEMOLITION DRAWINGS TO BE IDENTIFIED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
2. REMOVE EXISTING SLAB AND ASSOCIATED GRAVEL FILL, GRADE BEAMS, AND SPREAD FOOTINGS.
3. REMOVE ALL UNDER-BUILDING UTILITIES. REFER TO CIVIL FOR UNDERGROUND UTILITY DEMOLITION OUTSIDE OF BUILDING FOOTPRINT.
4. EXISTING FOUNDATION TYPES ARE UNKNOWN. CONTRACTOR TO ASSUME SPREAD FOOTINGS AT EACH CORNER AND AT EACH EXISTING INTERIOR COLUMN WITH GRADE BEAMS SPANNING BETWEEN FOOTINGS. CONTRACTOR TO ASSUME EXISTING SPREAD FOOTINGS MUST BE COMPLETELY REMOVED. ACTUAL FOUNDATION DEMOLITION WILL DEPEND ON EXISTING CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
5. CONTRACTOR TO ASSUME SPREAD FOUNDATIONS FOR EACH CANOPY COLUMN AND SIGN COLUMN. CONTRACTOR TO ASSUME EACH SPREAD FOOTING MUST BE COMPLETELY REMOVED. ACTUAL FOUNDATION DEMOLITION WILL DEPEND ON EXISTING CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

DEMOLITION KEYNOTES

1. REMOVE EXISTING CEILING IN ITS ENTIRETY (EXCEPT WHERE ABATEMENT IS REQUIRED. REF. ABATEMENT REPORT.) REMOVE EXISTING GRILLES AND REGISTERS. PROTECT ALL EXISTING TECHNOLOGY DEVICES, FIRE SPRINKLER HEADS, SPEAKERS, AND OTHER CEILING-MOUNTED EQUIPMENT DURING DEMOLITION.

REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED SUPPORTS. CAP ELECTRICAL CONDUCTORS SAFE.



N

01 DEMOLITION REFLECTED CEILING PLAN - AREA A

1/8" = 1'-0"

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MJ THOMAS ENGINEERING LLC
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(817) 732-9839

LANDSCAPE

CCA LANDSCAPE ARCHITECTS
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MEP

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(972) 812-1270

STRUCTURAL

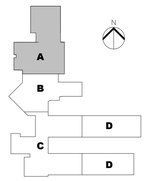
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DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026



KEY PLAN

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HKS PROJECT NUMBER
26399.005

DATE
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SHEET TITLE
DEMOLITION REFLECTED CEILING PLAN - AREA A

SHEET NO.
AD4.01

PLOT DATE:
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DEMO CEILING SYMBOLS LEGEND

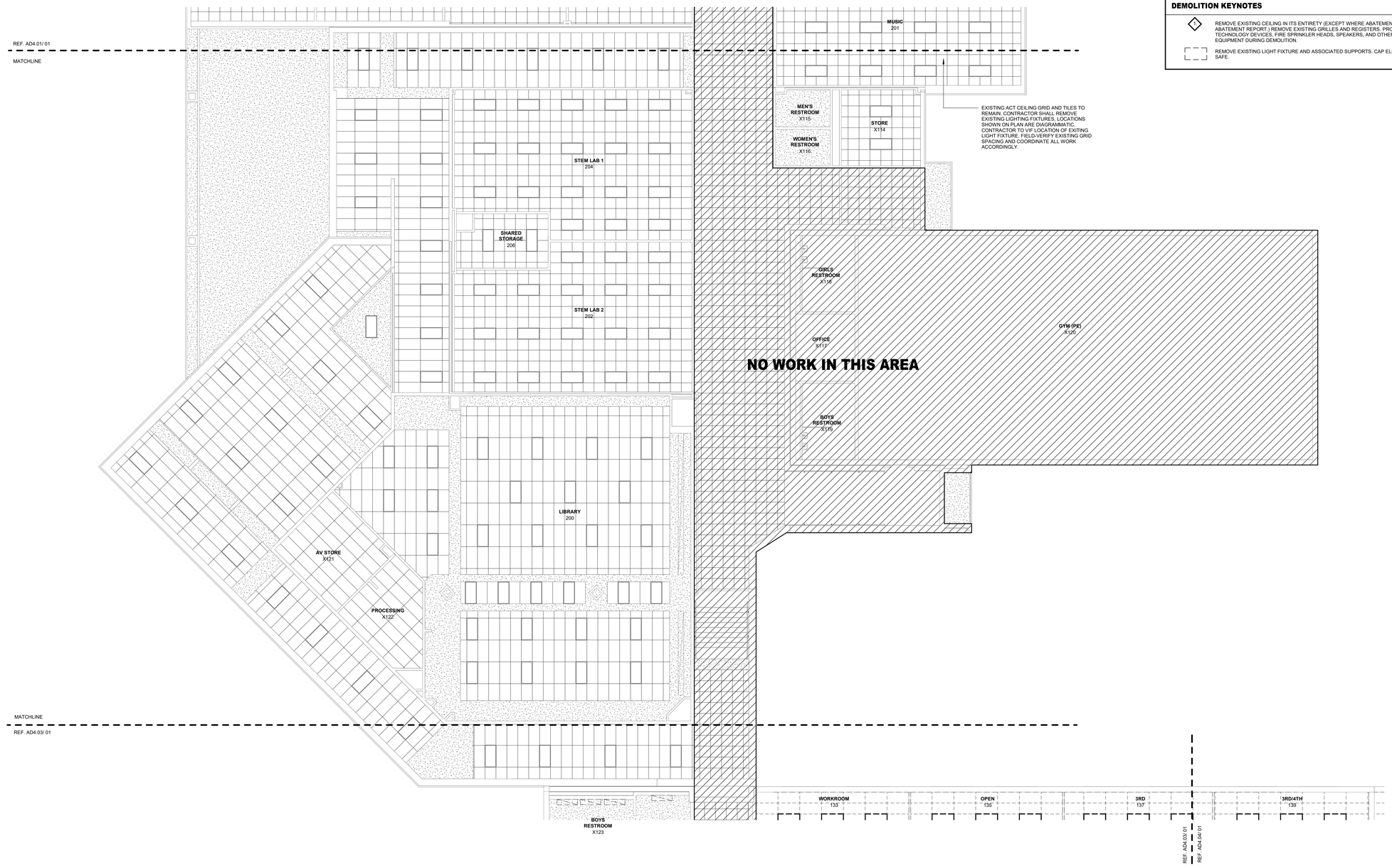
- ITEMS SHOWN DASHED ARE TO BE REMOVED
- ITEMS SHOWN SOLID ARE TO BE REMAIN

DEMOLITION GENERAL NOTES - STRUCTURAL FOUNDATION

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2. REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED SUPPORTS. CAP ELECTRICAL CONDUCTORS SAFE.



N

01 DEMOLITION REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

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CCA LANDSCAPE ARCHITECTS
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MEP
SALAS O'BRIEN
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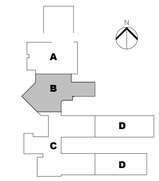
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DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT
WAYNE REYNOLDS
STATE OF TEXAS

04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

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SHEET TITLE
DEMOLITION REFLECTED CEILING PLAN - AREA B

SHEET NO.
AD4.02

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DEMO CEILING SYMBOLS LEGEND

- ITEMS SHOWN DASHED ARE TO BE REMOVED
- ITEMS SHOWN SOLID ARE TO BE REMAIN

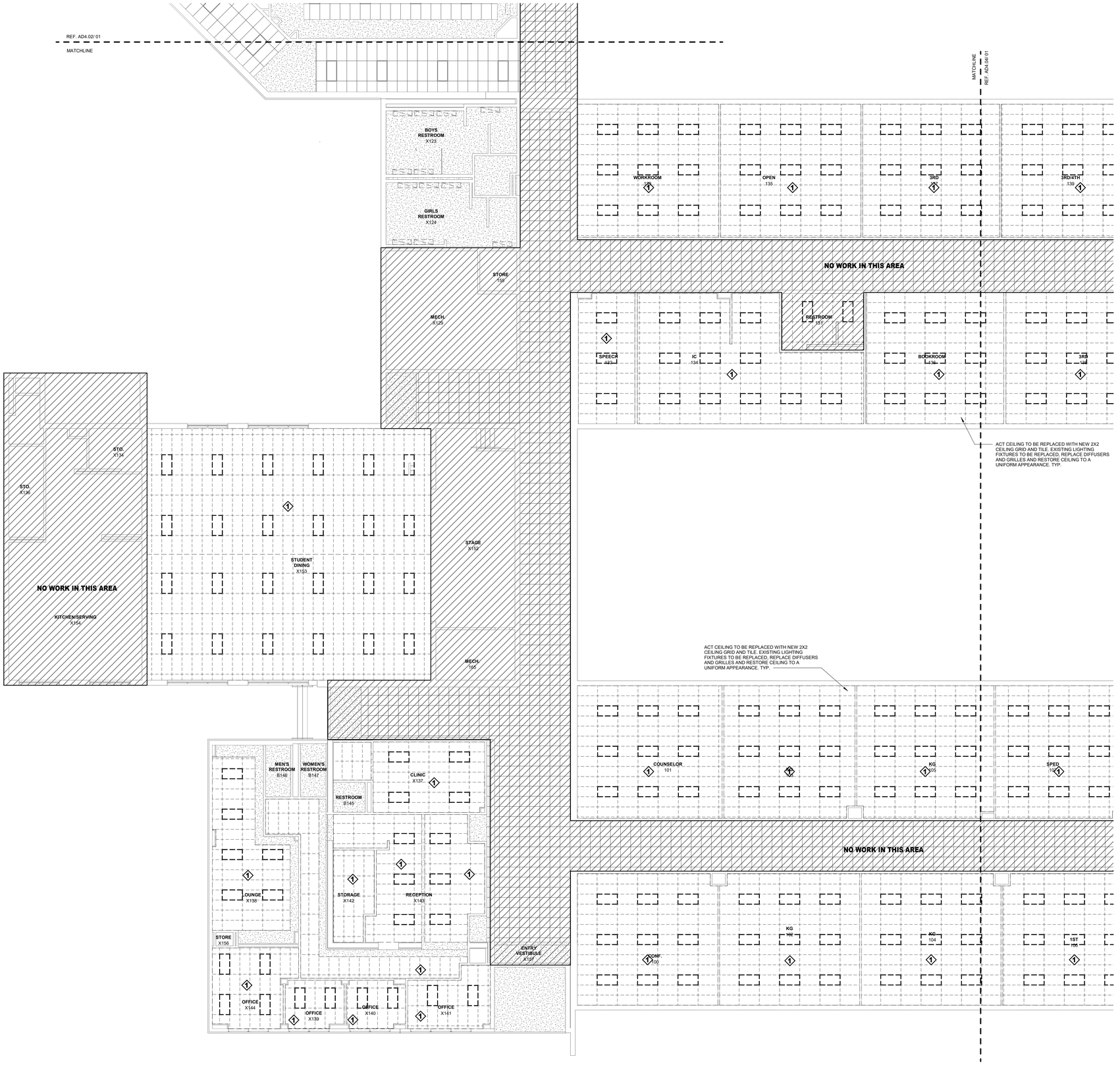
DEMOLITION GENERAL NOTES - STRUCTURAL FOUNDATION

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N

01 DEMOLITION REFLECTED CEILING PLAN - AREA C

1/8" = 1'-0"

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LANDSCAPE

CCA LANDSCAPE ARCHITECTS
12700 HILLCREST ROAD, SUITE 149
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(214) 739-9105

MEP

SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

STRUCTURAL

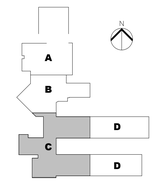
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WIMBISH WORLD LANGUAGE ACADEMY

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04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

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SHEET TITLE
DEMOLITION REFLECTED CEILING PLAN - AREA C

SHEET NO.
AD4.03

DEMO CEILING SYMBOLS LEGEND

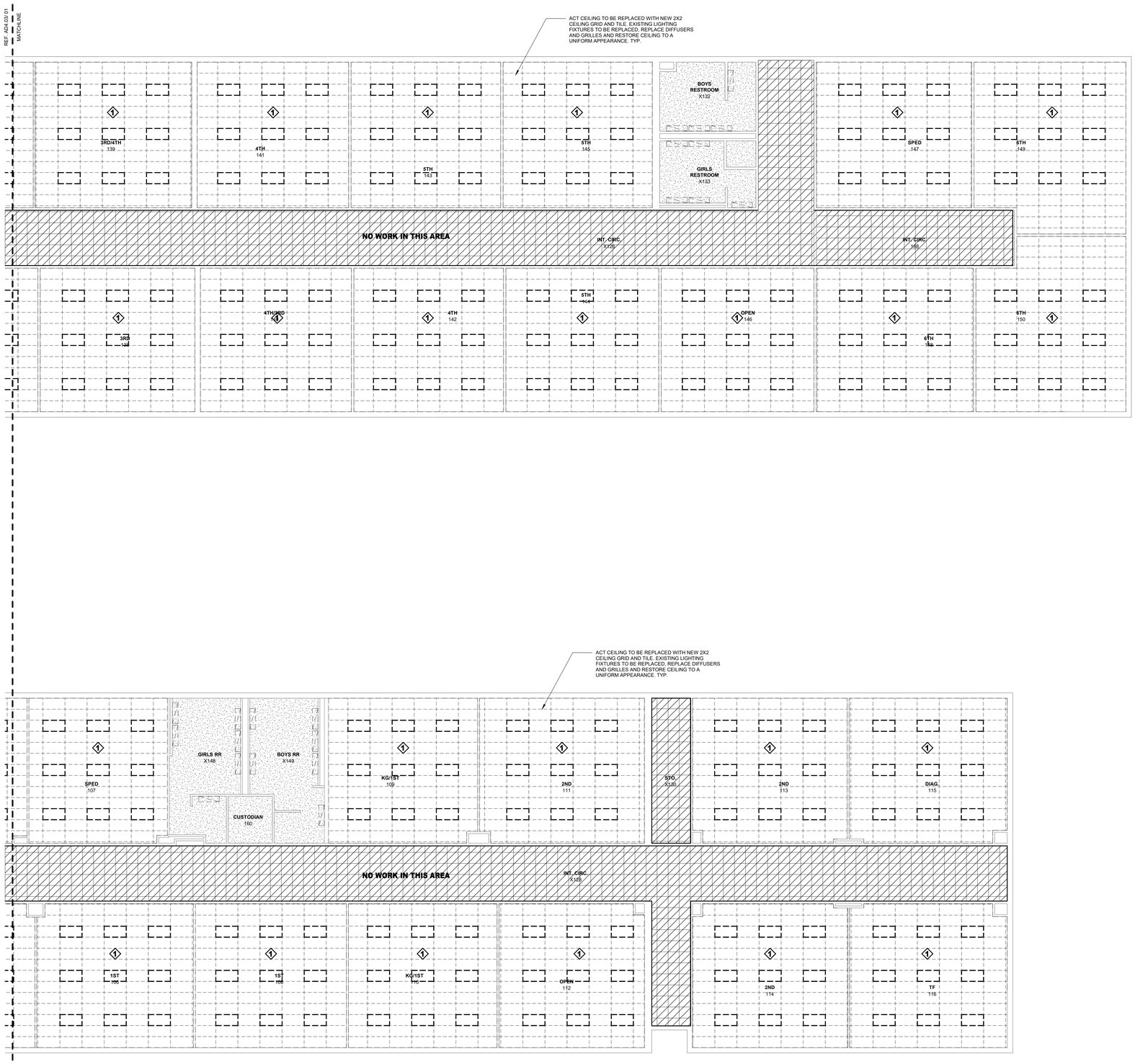
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N

01 DEMOLITION REFLECTED CEILING PLAN - AREA D

1/8" = 1'-0"

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LANDSCAPE

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MEP

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STRUCTURAL

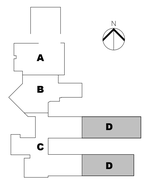
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KEY PLAN

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NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
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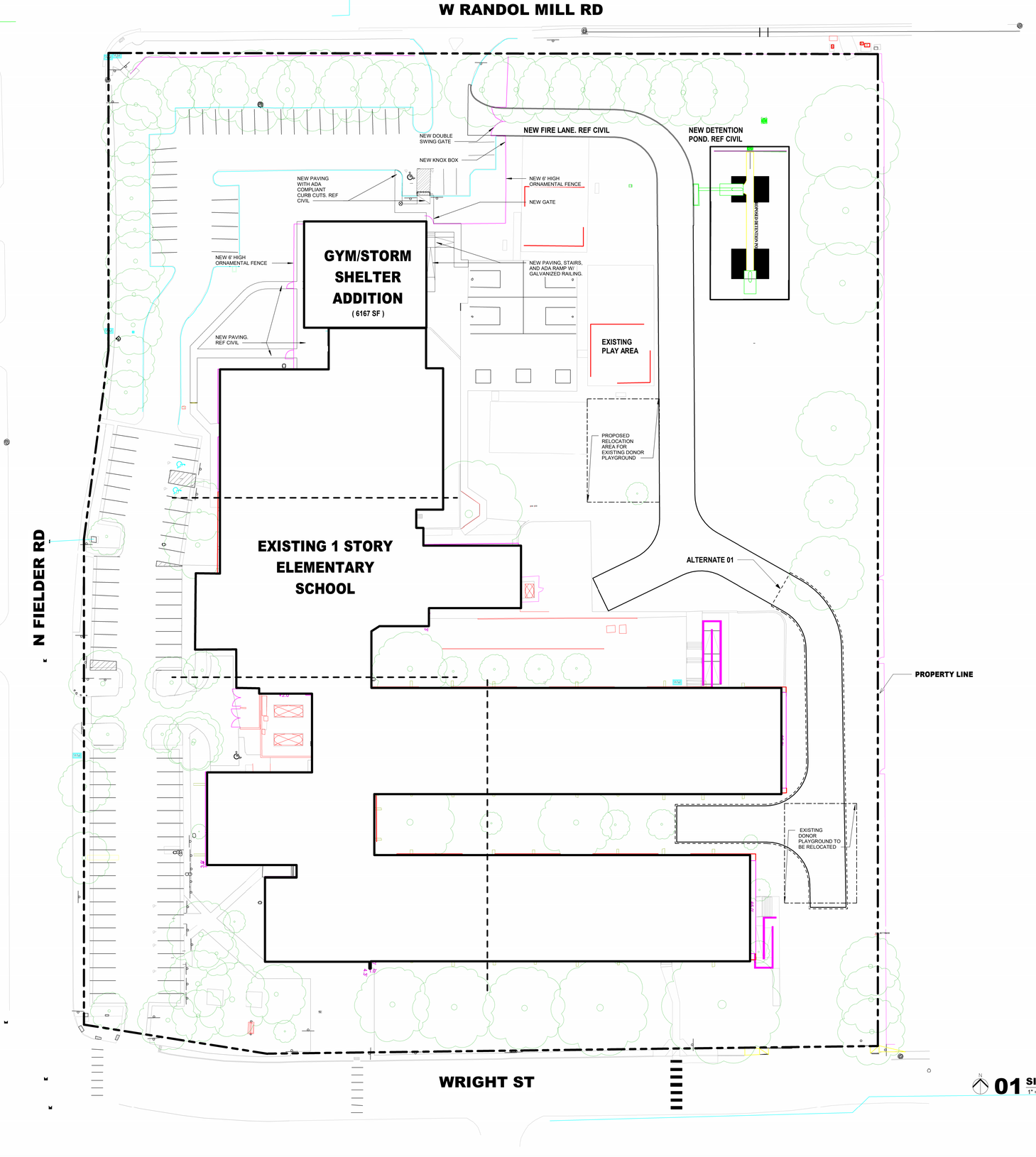
DATE
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SHEET TITLE
DEMOLITION REFLECTED CEILING PLAN - AREA D

SHEET NO.
AD4.04

PLOT DATE:
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LANDSCAPE

CCA LANDSCAPE ARCHITECTS
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DALLAS, TEXAS 75230
(214) 739-9105

MEP

SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
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(972) 812-1270

STRUCTURAL

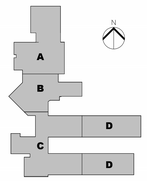
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KEY PLAN

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NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
SITE PLAN

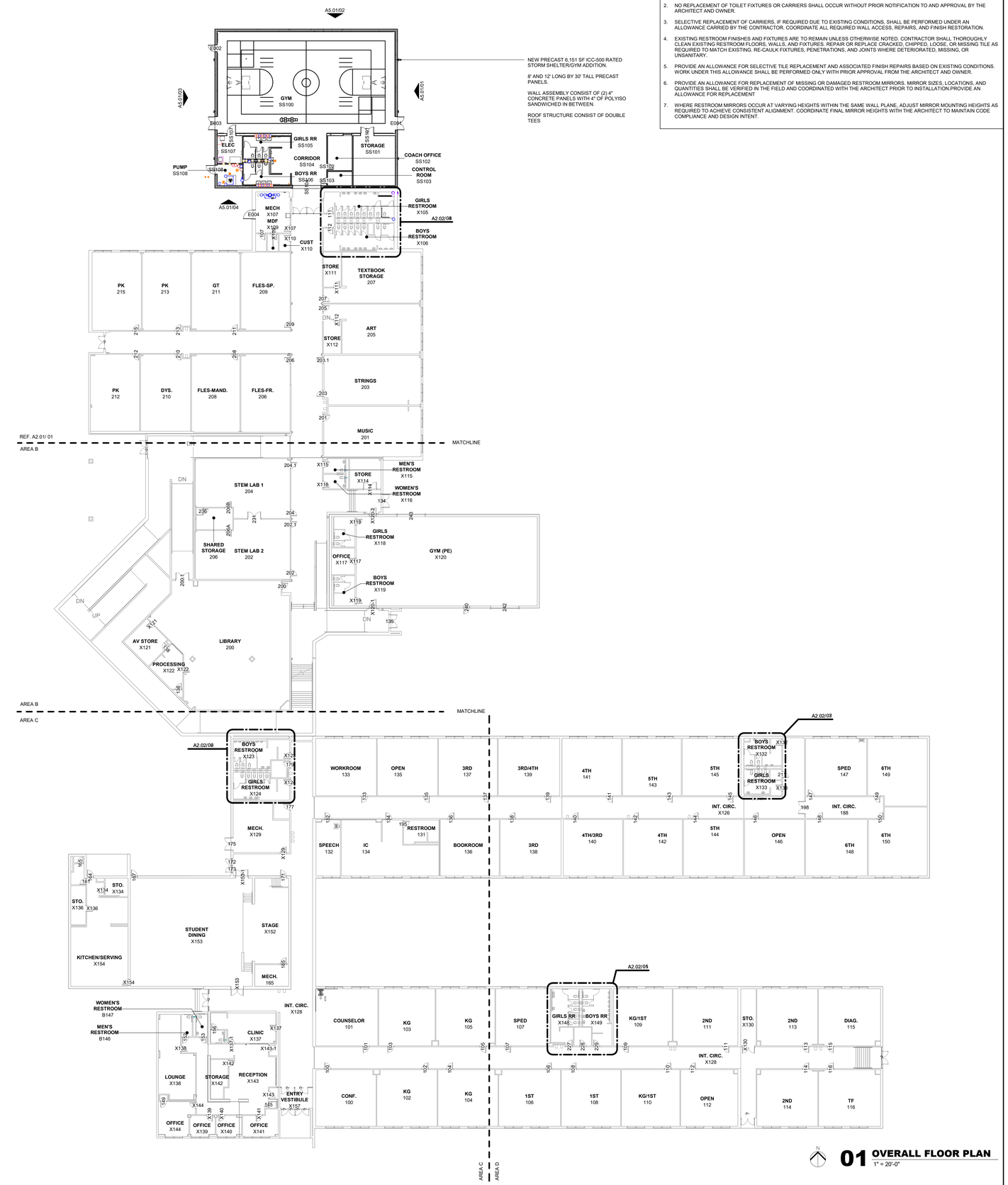
SHEET NO.
A1.01

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GENERAL NOTES - FLOOR PLAN

1. EXISTING WALL-MOUNTED TOILET FIXTURES ARE TO REMAIN. CONTRACTOR SHALL INSPECT EXISTING CARRIERS, ANCHORAGE, AND SUPPORTS FOR STABILITY. MINOR ADJUSTMENTS MAY BE MADE WHERE SUFFICIENT TO ACHIEVE A RIGID, SECURE INSTALLATION.
2. NO REPLACEMENT OF TOILET FIXTURES OR CARRIERS SHALL OCCUR WITHOUT PRIOR NOTIFICATION TO AND APPROVAL BY THE ARCHITECT AND OWNER.
3. SELECTIVE REPLACEMENT OF CARRIERS, IF REQUIRED DUE TO EXISTING CONDITIONS, SHALL BE PERFORMED UNDER AN ALLOWANCE CARRIED BY THE CONTRACTOR. COORDINATE ALL REQUIRED WALL ACCESS, REPAIRS, AND FINISH RESTORATION.
4. EXISTING RESTROOM FINISHES AND FIXTURES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL THOROUGHLY CLEAN EXISTING RESTROOM FLOORS, WALLS, AND FIXTURES. REPAIR OR REPLACE CRACKED, CHIPPED, LOOSE, OR MISSING TILE AS REQUIRED TO MATCH EXISTING. RE-CAULK FIXTURES, PENETRATIONS, AND JOINTS WHERE DETERIORATED, MISSING, OR UNSANITARY.
5. PROVIDE AN ALLOWANCE FOR SELECTIVE TILE REPLACEMENT AND ASSOCIATED FINISH REPAIRS BASED ON EXISTING CONDITIONS. WORK UNDER THIS ALLOWANCE SHALL BE PERFORMED ONLY WITH PRIOR APPROVAL FROM THE ARCHITECT AND OWNER.
6. PROVIDE AN ALLOWANCE FOR REPLACEMENT OF MISSING OR DAMAGED RESTROOM MIRRORS. MIRROR SIZES, LOCATIONS, AND QUANTITIES SHALL BE VERIFIED IN THE FIELD AND COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.PROVIDE AN ALLOWANCE FOR REPLACEMENT
7. WHERE RESTROOM MIRRORS OCCUR AT VARYING HEIGHTS WITHIN THE SAME WALL PLANE, ADJUST MIRROR MOUNTING HEIGHTS AS REQUIRED TO ACHIEVE CONSISTENT ALIGNMENT. COORDINATE FINAL MIRROR HEIGHTS WITH THE ARCHITECT TO MAINTAIN CODE COMPLIANCE AND DESIGN INTENT.



01 OVERALL FLOOR PLAN
1" = 20'-0"

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LANDSCAPE
CCA LANDSCAPE ARCHITECTS
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DALLAS, TEXAS 75230
(214) 739-9105

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SALAS O'BRIEN
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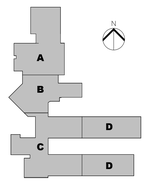
STRUCTURAL
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350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT
MICHAEL E. STARR
STATE OF TEXAS

04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

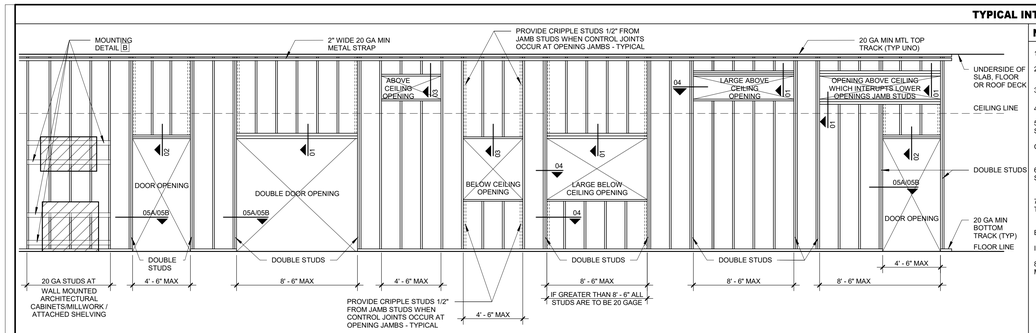
ISSUE
BID SET

SHEET TITLE
OVERALL FLOOR PLAN

SHEET NO.
A2.00

PLOT DATE:
4/24/2026 8:49:10 AM TEMPLATE VERSION: 23.0.4

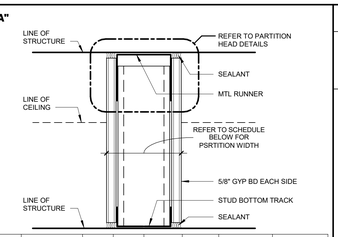
TYPICAL INTERIOR PARTITION FRAMING



NOTES

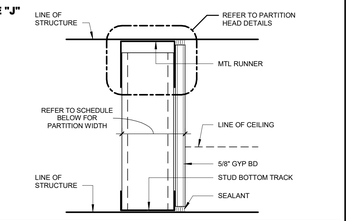
1. ALL STUDS ARE SPACED 16" OC MAXIMUM.
2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
3. DENOTES SHELVING OR CABINETRY.
4. DENOTES STONE.
5. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
6. AT LEAD LINED PARTITIONS STUDS SHOULD BE 20 GA MIN.
7. DO NOT CUT MORE THAN ONE STUD WEB TO ALLOW FOR HORIZONTAL PIPING PATH. PROVIDE STRAP AT WEB ABOVE AND BELOW PIPE IN ORDER TO RESTORE STUD INTEGRITY.
8. STRAP GAUGE TO MATCH STUD GAUGE MIN.

TYPE "A"



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS. CLASS	LABORATORY TEST REPORT & REMARKS
A3	A3	3 5/8"	4 7/8"	ONE HOUR	U419	37 / 44 (W/ 3 1/2" SAB)	USG - 150919
A3	A3	3 5/8"	4 7/8"	NON-RATED	N/A	37 / 44 (W/3 1/2" SAB)	USG - 150919
A6	A6	6"	7 1/4"	NON-RATED	N/A	37 / 44 (W/ 6" SAB)	NGC 2018130

TYPE "J"



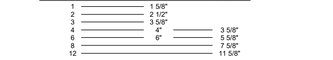
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS. CLASS	LABORATORY TEST REPORT & REMARKS
J3	N/A	3 5/8"	4 1/4"	NON-RATED	N/A	N/A	

GENERAL NOTES - FLOOR PLAN

1. MASONRY DIMENSIONS ARE NOMINAL, U.N.O.
2. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR MATERIAL, U.N.O.
3. REFER TO FINISH FLOOR PLAN SHEETS FOR WALL PROTECTION TYPES AND DETAILS.*
4. REFER TO AS SERIES FOR EXTERIOR ELEVATIONS.

NOTES

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.
2. THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS USE FOR PARTITONS NOT REQUIRING SOUND ATTENUATION AND ANOTHER FOR PARTITIONS WHICH REQUIRE SOUND ATTENUATION. REFER TO PARTITION MATRICES FOR SOUND ATTENUATION BLANKET (SAB) MINIMUM THICKNESS FOR STC INDICATED.



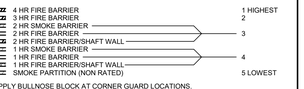
3. THERE ARE TWO SYMBOL DESIGNATION SYSTEMS USED. THE FIRST SYSTEM CONSISTS OF TWO AND THREE CHARACTERS. THE FIRST CHARACTER IS A LETTER INDICATING THE PARTITION TYPE. THE SECOND CHARACTER IS NUMERIC INDICATING THE STUD OR CMU WIDTH. REFER TO LEGEND BELOW. THIS SYSTEM IS USED TO DEFINE WALL TYPES: A, B, C, D, E, F, H, J, K, M, R

NUMERIC CHARACTER	STUD WIDTH	CMU WIDTH
1	1 5/8"	
2	2 1/2"	
3	3 5/8"	
4	4"	3 5/8"
6	6"	5 5/8"
8		7 5/8"
12		11 5/8"

THE # CHARACTER BELOW THE LINE INDICATES THE HEIGHT OF THE SPECIFIC WALL COMPONENT. THE HEIGHT OF A SPECIFIC WALL COMPONENT. REFER TO THE LEGEND BELOW. THIS SYSTEM IS USED TO DEFINE WALL TYPES: RA THRU RR

NUMERIC CHARACTER	CMU/BRICK HEIGHT
1	9' - 4"
2	10' - 8"
3	12' - 8"
4	16' - 8"
5	14' - 0"

4. IF NO SYMBOL DESIGNATION IS PROVIDED, FOR A PARTITION ON THE FLOOR PLANS, THE WALL TYPE SHALL BE AN A3 WITH SOUND BATTS.
5. THE GRAPHIC DESIGNATION IS INCORPORATED FOR PARTITIONS REQUIRED TO BE SMOKE RESISTANT OR RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT. REFER TO NOTE 18.
6. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
7. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.
8. SEALANT:
   1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE RESISTANT FILL MATERIAL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
   2. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL SEALANT.
9. INSULATION. - HEAD CONDITIONS AT FLOOR/ROOF DECK
   1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION.
   2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BLANKETS (SAB).
   3. PROVIDE FULL THICKNESS INSULATION INSIDE ALL STUD BOX BEAMS AND HEADERS WHICH OCCUR IN WALLS WITH SOUND ATTENUATION.
10. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.
11. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED.
12. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.
13. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.
14. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND SMOKE RESISTANT RATING SHALLBE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 6" - 0" OC MAX EACH SIDE.
15. REFER TO TOILET ACCESSORIES SHEET AND CASEWORK SHEET FOR MOUNTING DETAIL INFORMATION.
16. REFER TO THE METAL FABRICATIONS DETAILS FOR MF REFERENCES IN PARTITIONS SECTION.
17. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.
18. GRAPHIC DESIGNATION — PRIORITY



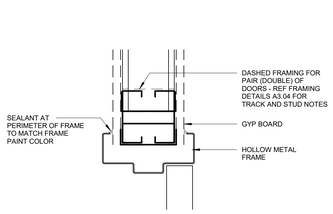
19. DO NOT APPLY BULLNOSE BLOCK AT CORNER GUARD LOCATIONS.
20. MASONRY REINFORCEMENT: REFERENCE STRUCTURAL DRAWINGS.
21. HW (HEAD OF WALL) DETAILS DO NOT ALTER PARTITION TYPES NOTED ON PLANS.
22. ALL STC RATINGS ARE BASED ON 20 GA STUDS AT 16" OC, UNLESS NOTED OTHERWISE (U.N.O.).
23. ALL STC RATINGS ARE DERIVED FROM LABORATORY TESTS OR VALUES EXTRAPOLATED USING FUNDAMENTAL ACOUSTIC PRINCIPLES.
24. WHEN BUILDING CODE CHAPTER 4 REQUIRES STRUCTURAL INTEGRITY OF INTERIOR EXIT STAIRWAYS, ELEVATOR HOISTWAYS, AND/OR FIRE SERVICE ACCESS ELEVATOR HOISTWAYS, PROVIDE SOFT BODY/HARD BODY WALL ASSEMBLIES AS INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. SEE PARTITION TYPES "N" AND "P".

NOTE:

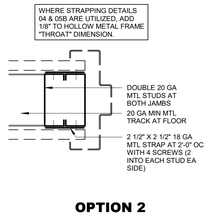
1. NOT ALL PARTITION TYPES SHOWN ON THIS SHEET ARE USED ON THIS PROJECT.
2. THE SHADED PORTIONS OF A PARTITION TYPE ARE NOT INCLUDED IN THE SCOPE OF THE WORK.
3. THE UN-SHADED PORTIONS OF ALL PARTITION TYPES ARE INTENDED TO BE IN THE SCOPE OF THE WORK.

HATCHING: PARTITION TYPE INCLUDED IN SCOPE OF WORK — PARTITION TYPE NOT INCLUDED IN SCOPE OF WORK.

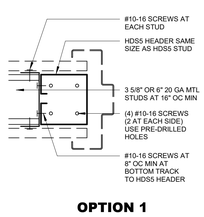
PARTITION FRAMING DETAILS



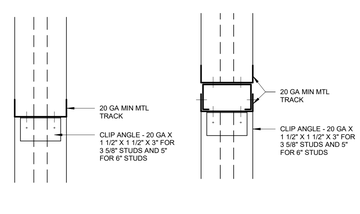
INTERIOR DOOR
06 HEAD DETAIL - HOLLOW METAL
3" = 1'-0"



OPTION 2 DOOR OPENING
05B JAMB STUDS
3" = 1'-0"



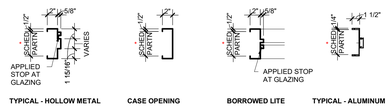
OPTION 1 DOOR OPENING
05A JAMB STUDS
3" = 1'-0"



DOOR OPENING HEADER
03 OPENING HEADER
3" = 1'-0"

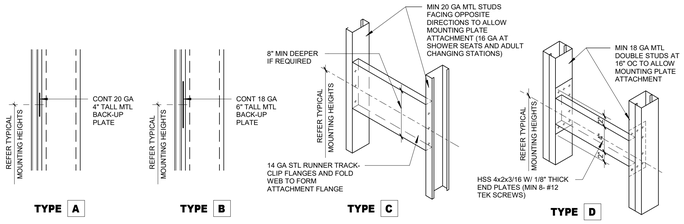
DOOR OPENING HEADER
02
3" = 1'-0"

FRAME TYPES



TYPICAL - HOLLOW METAL **1**
CASE OPENING **2**
BORROWED LITE **3**
TYPICAL - ALUMINUM **4**

ACCESSORY/EQUIPMENT MOUNTING DETAILS



TYPE A **TYPE B** **TYPE C** **TYPE D**

PATIENT OF SIZE GRAB BAR

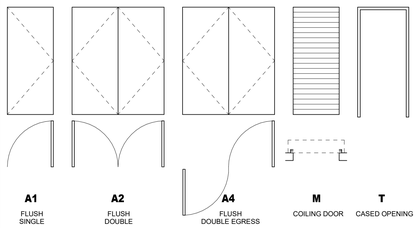
DOOR SCHEDULE											
					MATERIALS AND FINISHES						
DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	DOOR MATERIAL	DOOR FINISH	FRAME FINISH	DOOR RATING	HARDWARE	COMMENTS	VISION PANEL & LOUVER TYPE
E001	6' - 0"	7' - 0"	A2	HM	HM	HM	TBD	-	REF SPECS		-
E002	3' - 0"	6' - 8"	A1	HM	HM	HM	TBD	-	REF SPECS		-
E003	6' - 0"	7' - 0"	A2	HM	HM	HM	TBD	-	REF SPECS		-
E004	4' - 0"	7' - 0"	A1	HM	HM	HM	TBD	-	REF SPECS		-
SS101	6' - 0"	7' - 0"	A2	HM	WD01	WD01	TBD	-	REF SPECS		-
SS102	2' - 8"	7' - 0"	A1	HM	WD01	WD01	TBD	-	REF SPECS		3
SS103	2' - 8"	7' - 0"	A1	HM	WD01	WD01	TBD	-	REF SPECS		-
SS104	13' - 0"	9' - 0"	M	HM	HM	HM	TBD	90 MIN	REF SPECS		-
SS107	4' - 0"	7' - 0"	A1	HM	WD01	WD01	TBD	45 MIN	REF SPECS		-
SS108	4' - 0"	7' - 0"	A1	HM	HM	HM	TBD	-	REF SPECS		-

DOOR LEGEND

DOOR NOTES

1. CONTRACTORS SHALL USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

DOOR TYPES



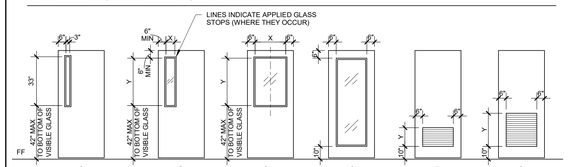
A1 FLUSH SINGLE
A2 FLUSH DOUBLE
A4 FLUSH DOUBLE EGRESS
M COILING DOOR
T CASED OPENING

DOOR LEGEND

DOOR NOTES

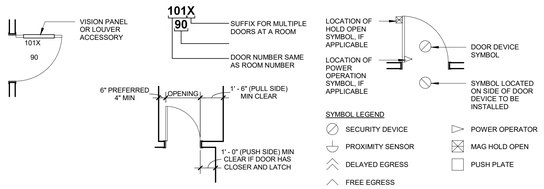
1. CONTRACTORS SHALL USE THE ARCHITECT'S ROOM AND DOOR NUMBERS ON ALL SHOP DRAWING SUBMITTALS.

VISION PANELS, LOUVER TYPES, AND ACCESSORIES



1 RATED 60/90 100 SQ IN MAX
2 NON-RATED OR RATED 20/45 MIN
3 RATED 20/45 MIN 1296 SQ IN MAX
4 NON-RATED
5 NON-RATED
6 NON-RATED

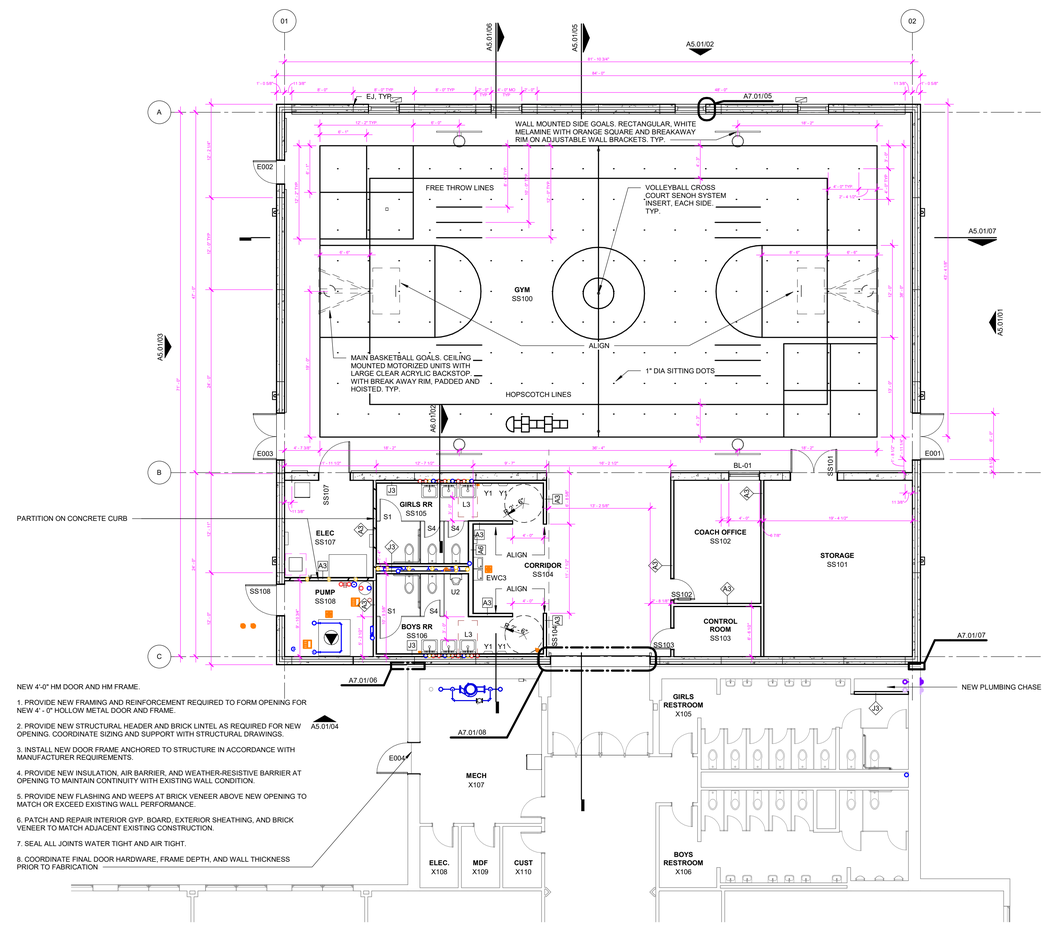
DOOR PLAN DESIGNATION



DOOR OPENING LOCATION

A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.



NEW 4'-0" HM DOOR AND HM FRAME.

1. PROVIDE NEW FRAMING AND REINFORCEMENT REQUIRED TO FORM OPENING FOR NEW 4' - 0" HOLLOW METAL DOOR AND FRAME.
2. PROVIDE NEW STRUCTURAL HEADER AND BRICK LINTEL AS REQUIRED FOR NEW OPENING. COORDINATE SIZING AND SUPPORT WITH STRUCTURAL DRAWINGS.
3. INSTALL NEW DOOR FRAME ANCHORED TO STRUCTURE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
4. PROVIDE NEW INSULATION, AIR BARRIER, AND WEATHER-RESISTIVE BARRIER AT OPENING TO MAINTAIN CONTINUITY WITH EXISTING WALL CONDITION.
5. PROVIDE NEW FLASHING AND WEEPS AT BRICK VENEER ABOVE NEW OPENING TO MATCH OR EXCEED EXISTING WALL PERFORMANCE.
6. PATCH AND REPAIR INTERIOR GYP. BOARD, EXTERIOR SHEATHING, AND BRICK VENEER TO MATCH ADJACENT EXISTING CONSTRUCTION.
7. SEAL ALL JOINTS WATER TIGHT AND AIR TIGHT.
8. COORDINATE FINAL DOOR HARDWARE, FRAME DEPTH, AND WALL THICKNESS PRIOR TO FABRICATION

01 FLOOR PLAN - AREA A
1/8" = 1'-0"

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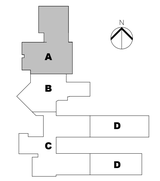
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
FLOOR PLAN - AREA A

SHEET NO.
A2.01

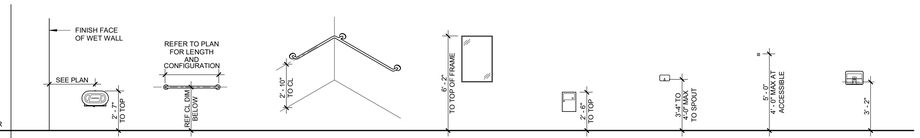
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TOILET ACCESSORY MOUNTING DIAGRAM

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

NOTE:

1. ACCESSORIES LISTED MAY HAVE GAPS IN ALPHABETICAL LISTING.
2. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.

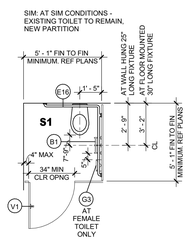


TOILET ACCESSORY TYPE	TOILET TISSUE DISPENSER	GRAB BAR 24" AT 5 - 8 YRS (ELEMENTARY)	ACCESSIBLE TOILET STALL OR SHOWER GRAB BAR WITH SEAT	STAINLESS STEEL FRAMED MIRROR	SANITARY NAPKIN TAMPON DISPOSAL (WOMEN'S AND UNISEX ONLY)	SOAP DISPENSER	ROBE HOOK	HAND DRYER
MOUNTING DETAIL - REFER TO SHEET A2.01	A	C	C D AT PATIENT OF SIZE CONDITIONS ONLY	B	A	A	A	A
DRAWING DESIGNATION	B9 TWIN JUMBO - ROLL	E5 42"	E14 24 X 42 - NON-SLIP FINISH E16 42 X 54 - NON-SLIP FINISH	R1 24 X 36 WITHOUT SHELF SURFACE MOUNTED R2 24 X 36 WITH SHELF SURFACE MOUNTED	G3 PARTITION MOUNTED	J1 SURFACE MOUNTED	V1 1 1/2" SINGLE SURFACE MOUNTED V2 2" DOUBLE SURFACE MOUNTED	V1 SURFACE-MOUNTED

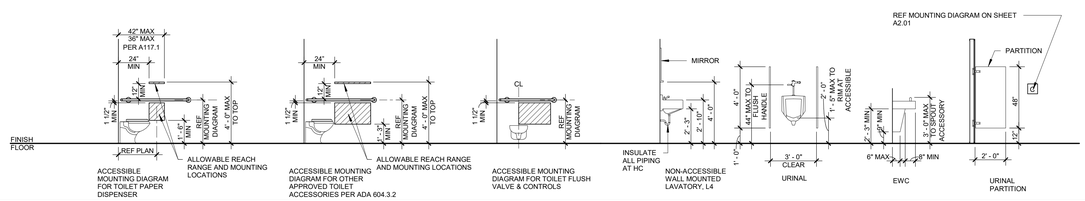
STANDARD LAYOUTS - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN/2017 A117.1

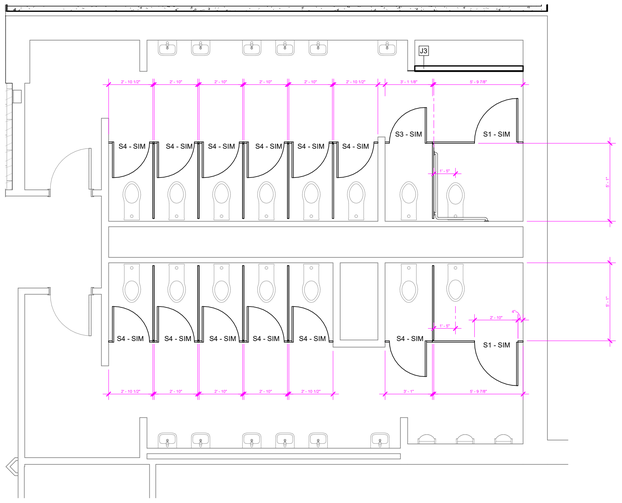
SCALE: 1/4" = 1'-0"

NOTE: LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.



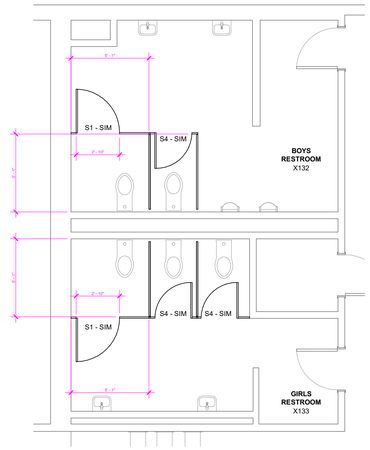
FIXTURE AND PARTITION MOUNTING DIAGRAM





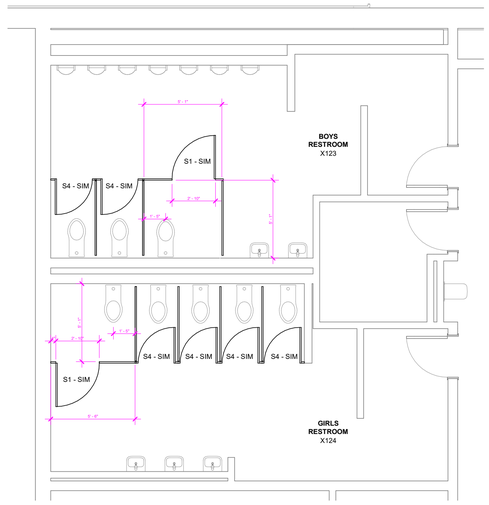
08 RENOVATION RESTROOM GROUP 04

1/4" = 1'-0"



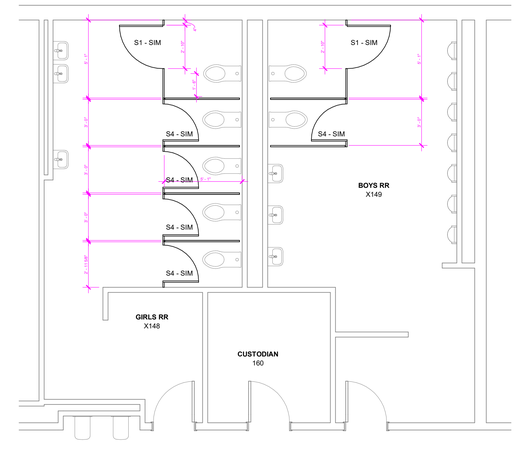
07 RENOVATION RESTROOM GROUP 03

1/4" = 1'-0"



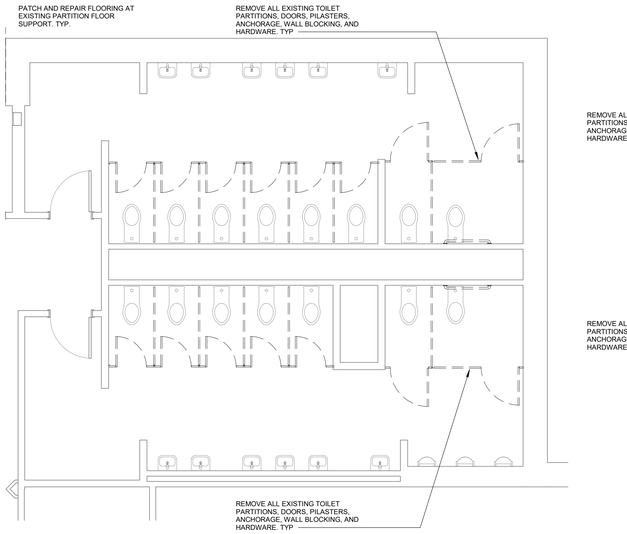
06 RENOVATION RESTROOM GROUP 02

1/4" = 1'-0"



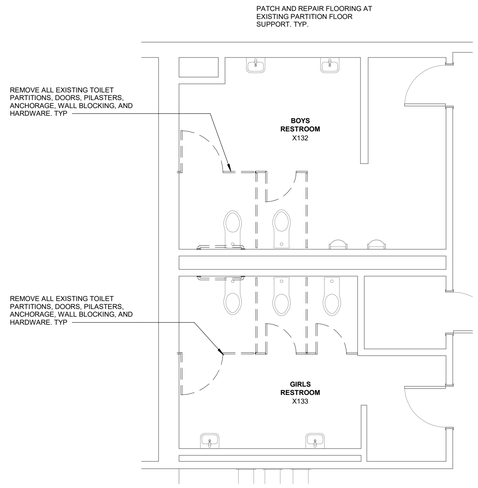
05 RENOVATION RESTROOM GROUP 01

1/4" = 1'-0"



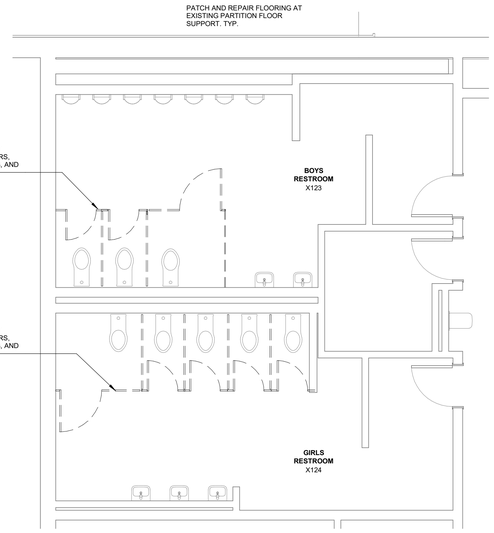
04 DEMOLITION RESTROOM GROUP 04

1/4" = 1'-0"



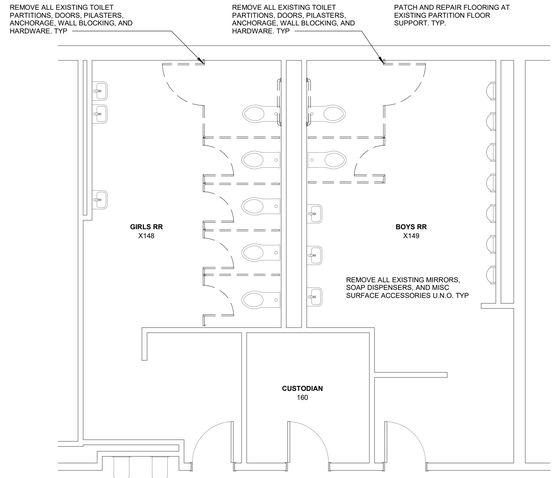
03 DEMOLITION RESTROOM GROUP 03

1/4" = 1'-0"



02 DEMOLITION RESTROOM GROUP 02

1/4" = 1'-0"



01 DEMOLITION RESTROOM GROUP 01

1/4" = 1'-0"

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STRUCTURAL

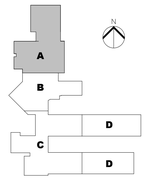
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

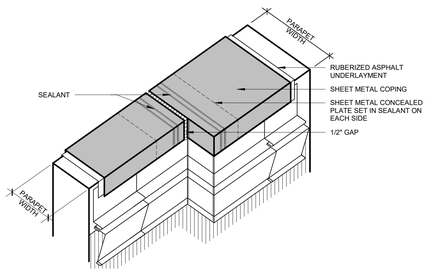
HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

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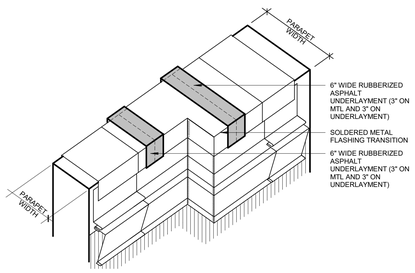
SHEET TITLE
RESTROOM RENOVATION

SHEET NO.
A2.02



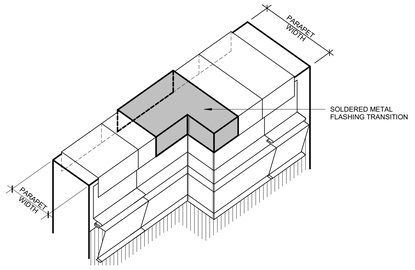
COPING CAP TRANSITIONS
THICKNESS INCREASE IN WALL - STEP 5

NTS



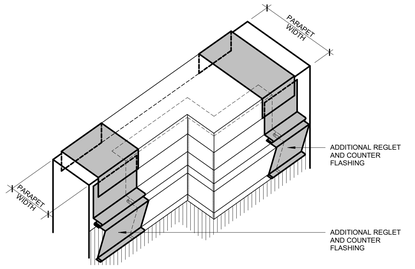
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THICKNESS INCREASE IN WALL - STEP 4

NTS



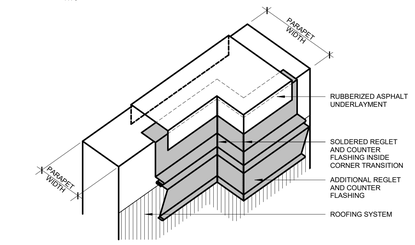
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THICKNESS INCREASE IN WALL - STEP 3

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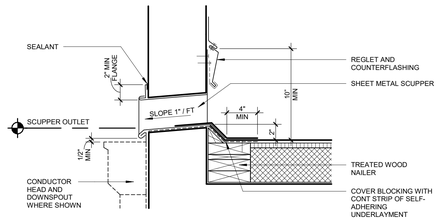


COPING CAP TRANSITIONS
THICKNESS INCREASE IN WALL - STEP 2

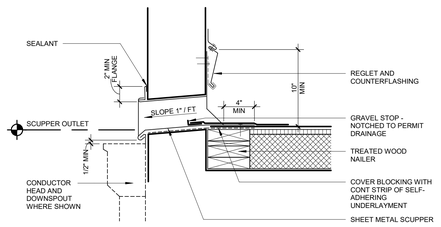
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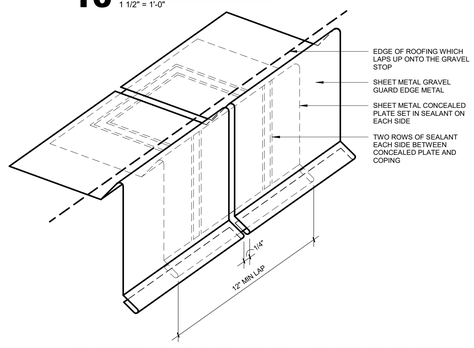
COPING CAP TRANSITIONS
12 THICKNESS INCREASE IN WALL - STEP 1
NTS



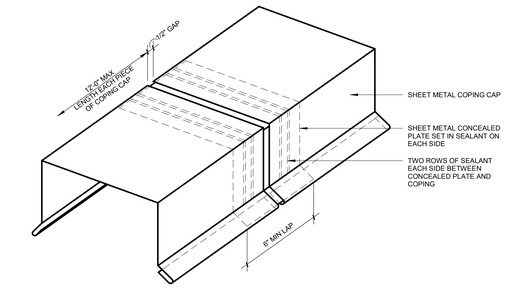
11 PARAPET OVERFLOW SCUPPER
1 1/2" = 1'-0"



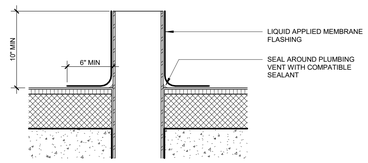
10 PARAPET SCUPPER
1 1/2" = 1'-0"



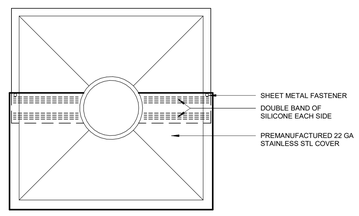
09 GRAVEL GUARD CONCEALED SPLICE PLATE
3" = 1'-0"



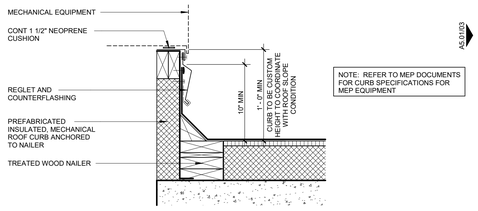
08 COPING CAP CONCEALED SPLICE PLATE
3" = 1'-0"



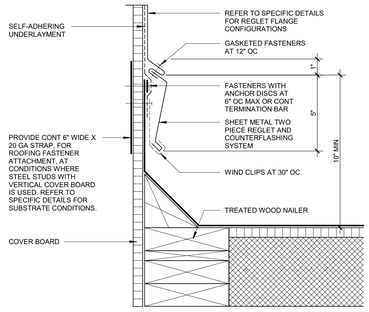
07 VENT PIPE PENETRATION
1 1/2" = 1'-0"



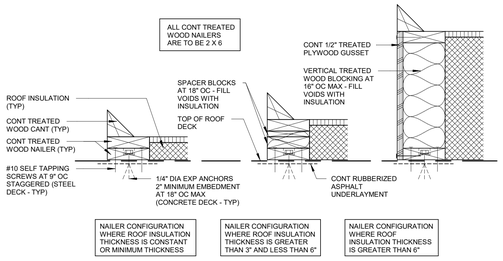
06 ROOF PENETRATION COVER PLAN
1 1/2" = 1'-0"



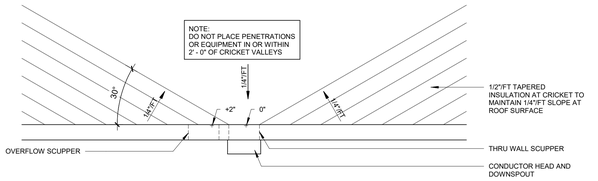
05 EQUIPMENT CURB
1 1/2" = 1'-0"



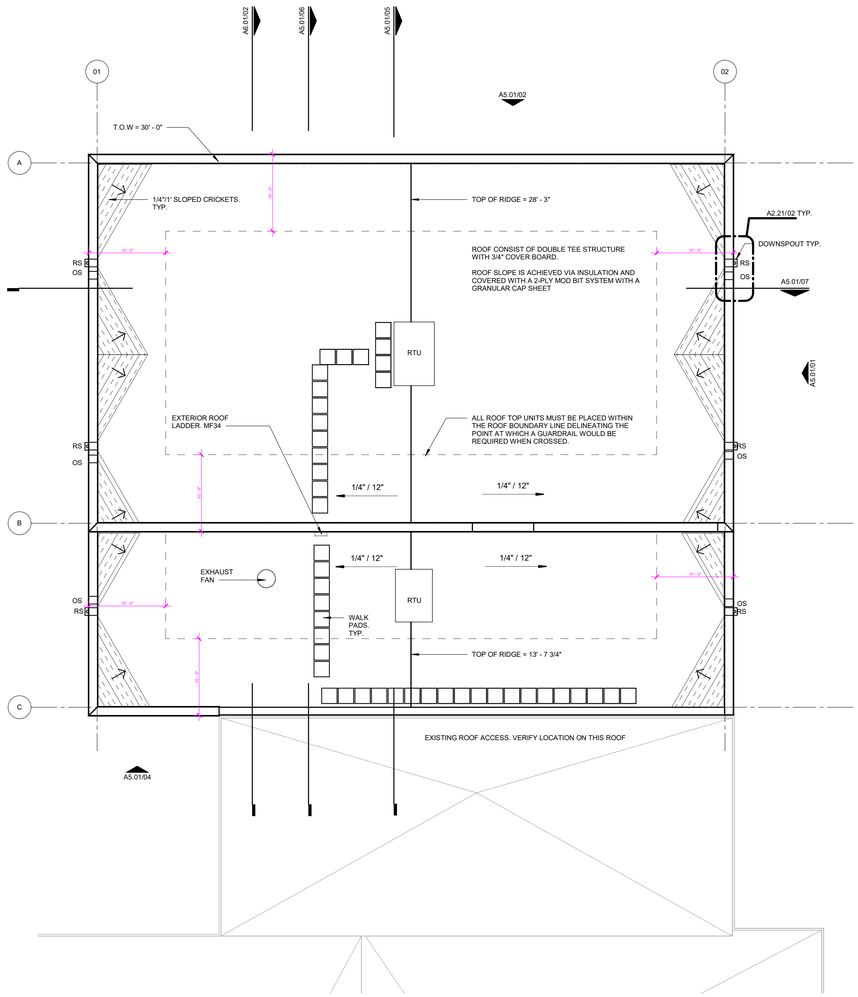
04 REGLET AND COUNTERFLASHING
3" = 1'-0"



TREATED WOOD
03 NAILER CONFIGURATION
1 1/2" = 1'-0"



TYPICAL CRICKET ADJACENT TO PARAPET WITH THRU WALL SCUPPERS
02 1/4" = 1'-0"



01 ROOF PLAN - AREA A
1/8" = 1'-0"

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KEY PLAN

REVISION

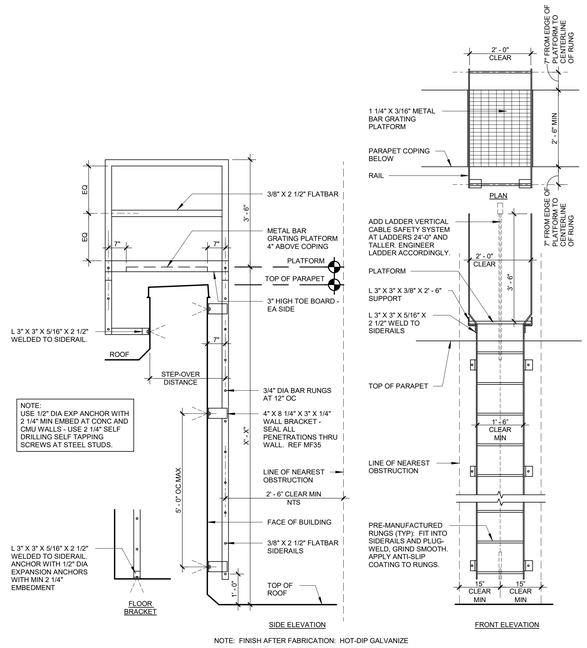
NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
ROOF PLAN & DETAILS - AREA A

SHEET NO.
A2.21

PLOT DATE: 4/24/2026 8:49:19 AM TEMPLATE VERSION: 23.0.4



NOTE: FINISH AFTER FABRICATION: HOT-DIP GALVANIZE

01 MF34 - EXTERIOR ROOF LADDER

1/2" = 1'-0"

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STRUCTURAL

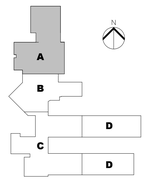
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04-24-2026



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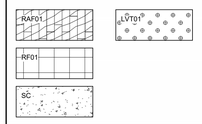
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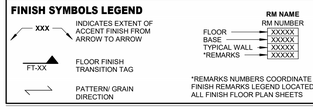
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FINISH FLOOR KEY PLAN



FINISH SYMBOLS LEGEND



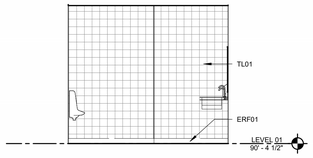
INTERIOR TYPICAL FINISHES

THE FOLLOWING FINISH SELECTIONS SHALL BE TYPICAL UNLESS NOTED OTHERWISE

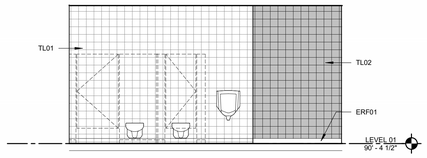
ACT01	ACOUSTIC CEILING TILE
IPT01	WALLS
IPT02	GYP CEILING & SOFFITS
LVT01	COACH OFFICE FLOORING
RAF01	RESILIENT ATHLETIC FLOORING
RB01	WALL BASE
RF01	RESTROOM FLOORING & WALL BASE
SC	SEALED CONCRETE
T01	RESTROOM FIELD WALL TILE
T02	RESTROOM ACCENT WALL TILE

INTERIOR FINISH GENERAL NOTES

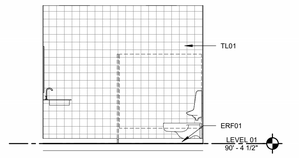
1. PATTERN NAME, COLOR AND NUMBER FOR EACH MATERIAL ARE GIVEN WHEREVER POSSIBLE ON THE FINISH PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/DESIGNER SO THAT THE CORRECT MATERIAL IS INSTALLED.
3. REFERENCE A2 SERIES DRAWINGS FOR INTERIOR FINISH PLANS.
6. REFERENCE A4 SERIES FOR ALL CEILING FINISHES.
7. ALL CORNERS IN CORRIDOR SHALL RECEIVE A CORNER GUARD, U.N.O.
11. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION.
12. ALL FLOORING TO BE INSTALLED PARALLEL TO DOOR UNLESS NOTED OTHERWISE.
17. TILE AND/OR FLOORING SHALL NOT CUT LESS THAN 1/3* OF THE MATERIAL UNLESS IT IS GREATER THAN 6 INCHES.
18. ALL EXPOSED TILE EDGES AND OUTSIDE WALL TILE CORNERS TO RECEIVE METAL TRIM REFER TO IDSS.



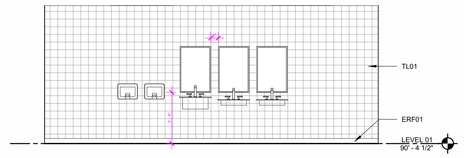
16 BOYS RR ELVATION 04
1/4" = 1'-0"



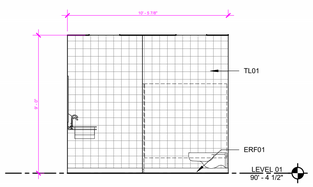
15 BOYS RR ELVATION 03
1/4" = 1'-0"



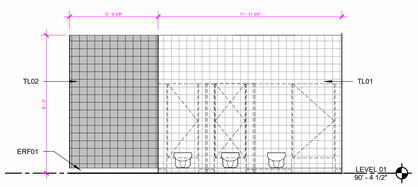
14 BOYS RR ELVATION 02
1/4" = 1'-0"



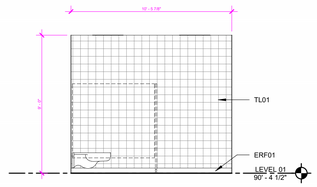
13 BOYS RR ELVATION 01
1/4" = 1'-0"



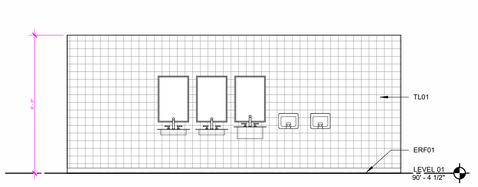
12 GIRLS RR ELVATION 04
1/4" = 1'-0"



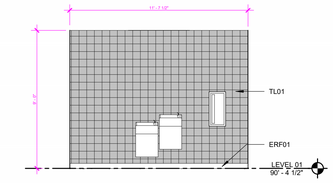
11 GIRLS RR ELVATION 03
1/4" = 1'-0"



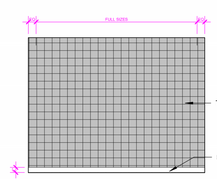
10 GIRLS RR ELVATION 02
1/4" = 1'-0"



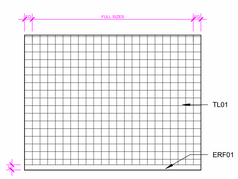
09 GIRLS RR ELVATION 01
1/4" = 1'-0"



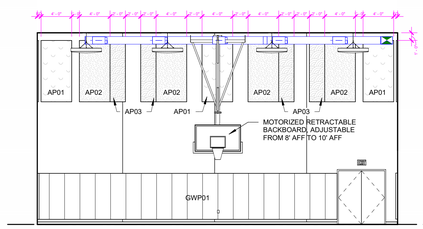
08 RESTROOM VESTIBULE ELEVATION
1/4" = 1'-0"



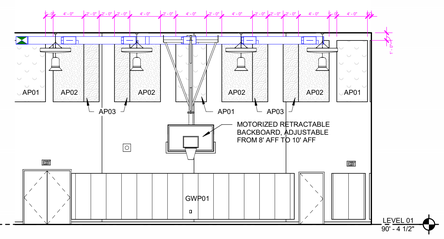
07 INT. ELEV - GROUP RR ACCENT WALL
1/4" = 1'-0"



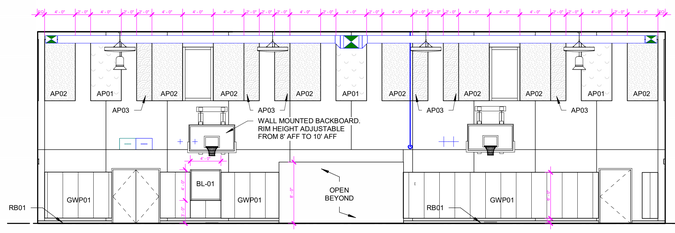
06 INT. ELEV - GROUP RR FIELD WALL
1/4" = 1'-0"



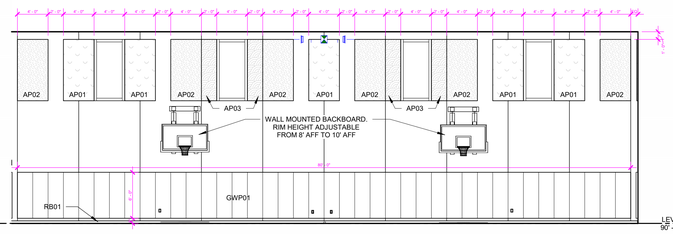
05 INTERIOR ELEVATION 04
1/8" = 1'-0"



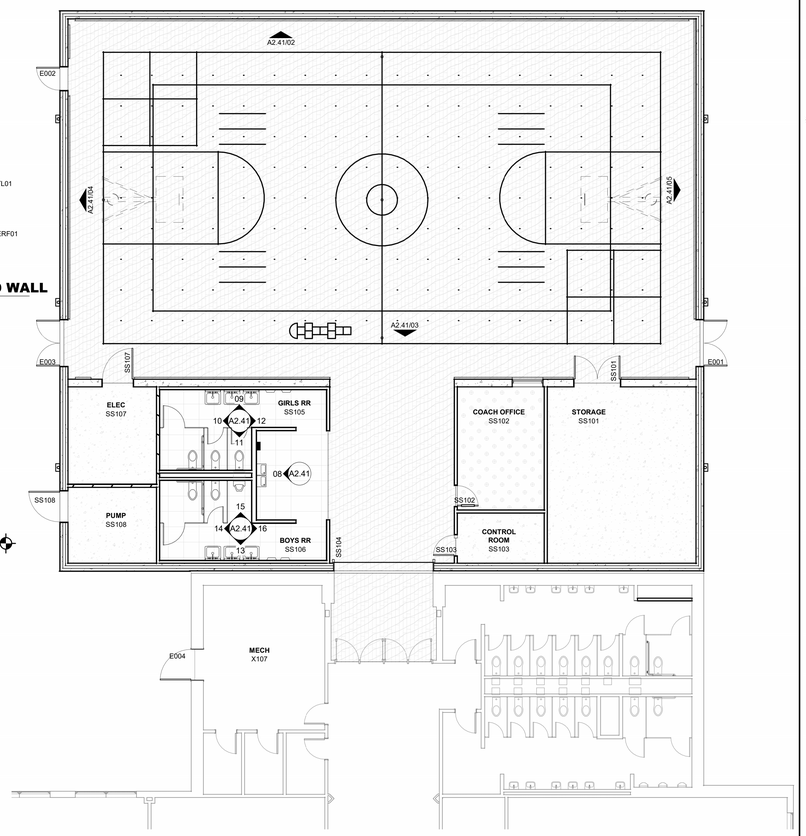
04 INTERIOR ELEVATION 03
1/8" = 1'-0"



03 INTERIOR ELEVATION 02
1/8" = 1'-0"



02 INTERIOR ELEVATION 01
1/8" = 1'-0"



01 FINISH FLOOR PLAN - AREA A
1/8" = 1'-0"

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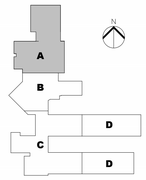
STRUCTURAL
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026



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DATE
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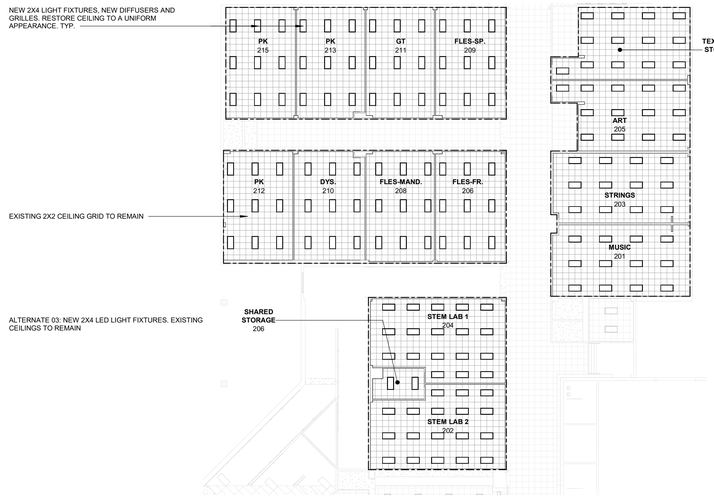
ISSUE
BID SET

SHEET TITLE
FINISH FLOOR PLAN - AREA A

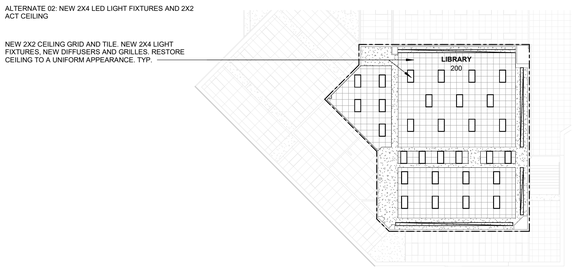
SHEET NO.
A2.41

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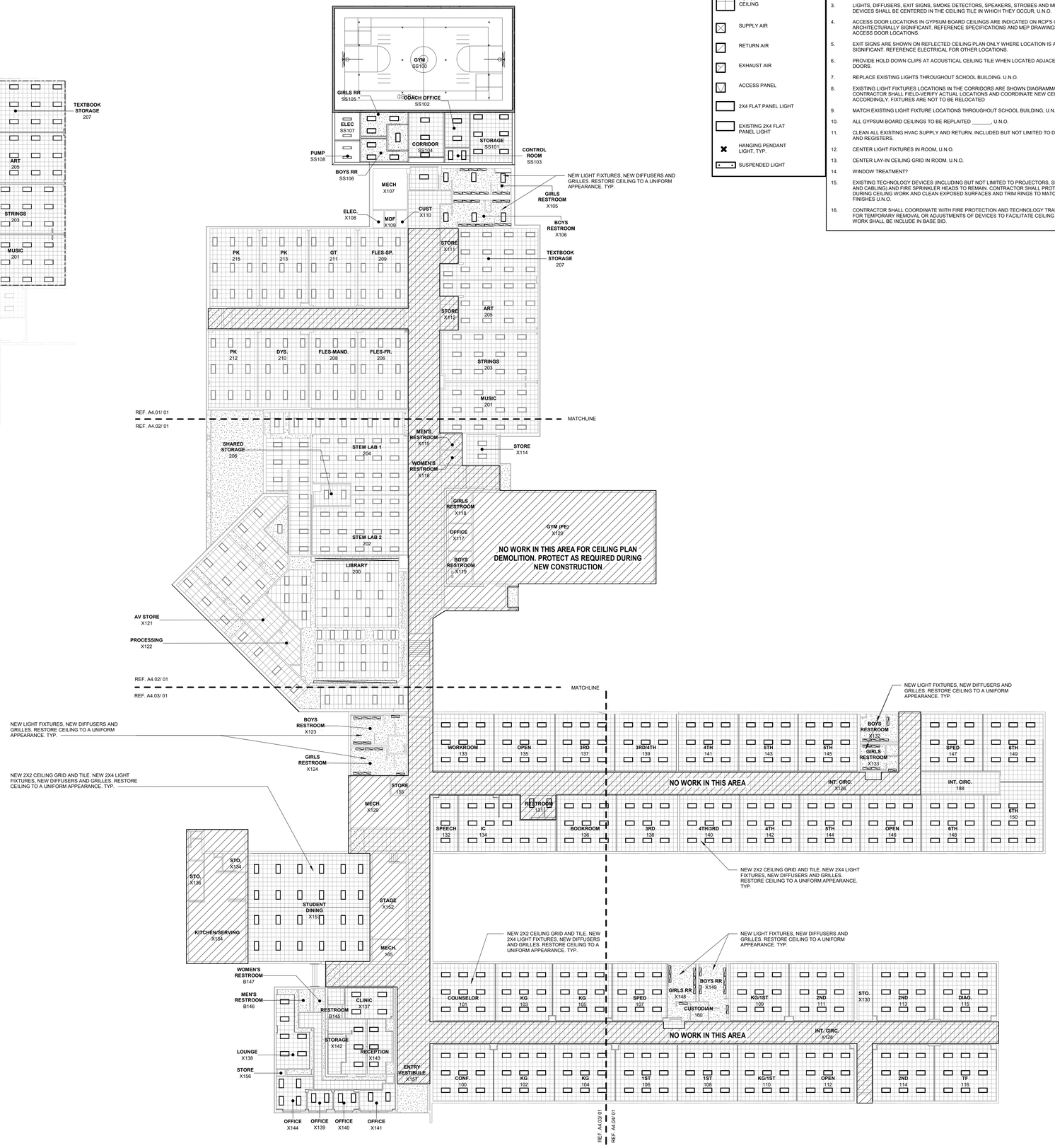
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03 ALTERNATE 03
1" = 20'-0"



02 ALTERNATE 02
1" = 20'-0"



01 OVERALL REFLECTED CEILING PLAN
1" = 20'-0"

CEILING SYMBOLS LEGEND

- GYPSUM BOARD CEILING
- ACT-01 CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- 2X4 FLAT PANEL LIGHT
- EXISTING 2X4 FLAT PANEL LIGHT
- HANGING PENDANT LIGHT, TYP.
- SUSPENDED LIGHT

GENERAL NOTES - REFLECTED CEILING PLAN

1. MATCH EXISTING CEILING HEIGHT ABOVE FINISH FLOOR AT EXISTING LOCATIONS, U.N.O.
2. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
3. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
4. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS AND MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.
5. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT. REFERENCE ELECTRICAL FOR OTHER LOCATIONS.
6. PROVIDE HOLD DOWN CLIPS AT ACOUSTICAL CEILING TILE WHEN LOCATED ADJACENT TO EXTERIOR DOORS.
7. REPLACE EXISTING LIGHTS THROUGHOUT SCHOOL BUILDING. U.N.O.
8. EXISTING LIGHT FIXTURES LOCATIONS IN THE CORRIDORS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL FIELD-VERIFY ACTUAL LOCATIONS AND COORDINATE NEW CEILING GRID ACCORDINGLY. FIXTURES ARE NOT TO BE RELOCATED
9. MATCH EXISTING LIGHT FIXTURE LOCATIONS THROUGHOUT SCHOOL BUILDING, U.N.O
10. ALL GYPSUM BOARD CEILINGS TO BE REPLAITED _____, U.N.O.
11. CLEAN ALL EXISTING HVAC SUPPLY AND RETURN. INCLUDED BUT NOT LIMITED TO DIFFUSERS, GRILLES, AND REGISTERS.
12. CENTER LIGHT FIXTURES IN ROOM, U.N.O.
13. CENTER LAY-IN CEILING GRID IN ROOM. U.N.O.
14. WINDOW TREATMENT?
15. EXISTING TECHNOLOGY DEVICES (INCLUDING BUT NOT LIMITED TO PROJECTORS, SPEAKERS, SENSORS, AND CABLING) AND FIRE SPRINKLER HEADS TO REMAIN. CONTRACTOR SHALL PROTECT ALL DEVICES DURING CEILING WORK AND CLEAN EXPOSED SURFACES AND TRIM RINGS TO MATCH ADJACENT FINISHES U.N.O.
16. CONTRACTOR SHALL COORDINATE WITH FIRE PROTECTION AND TECHNOLOGY TRADES AS REQUIRED FOR TEMPORARY REMOVAL OR ADJUSTMENTS OF DEVICES TO FACILITATE CEILING WORK. ANY SUCH WORK SHALL BE INCLUDE IN BASE BID.

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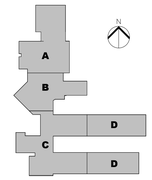
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(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT ... STATE OF TEXAS

04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
OVERALL REFLECTED CEILING PLAN

SHEET NO.
A4.00

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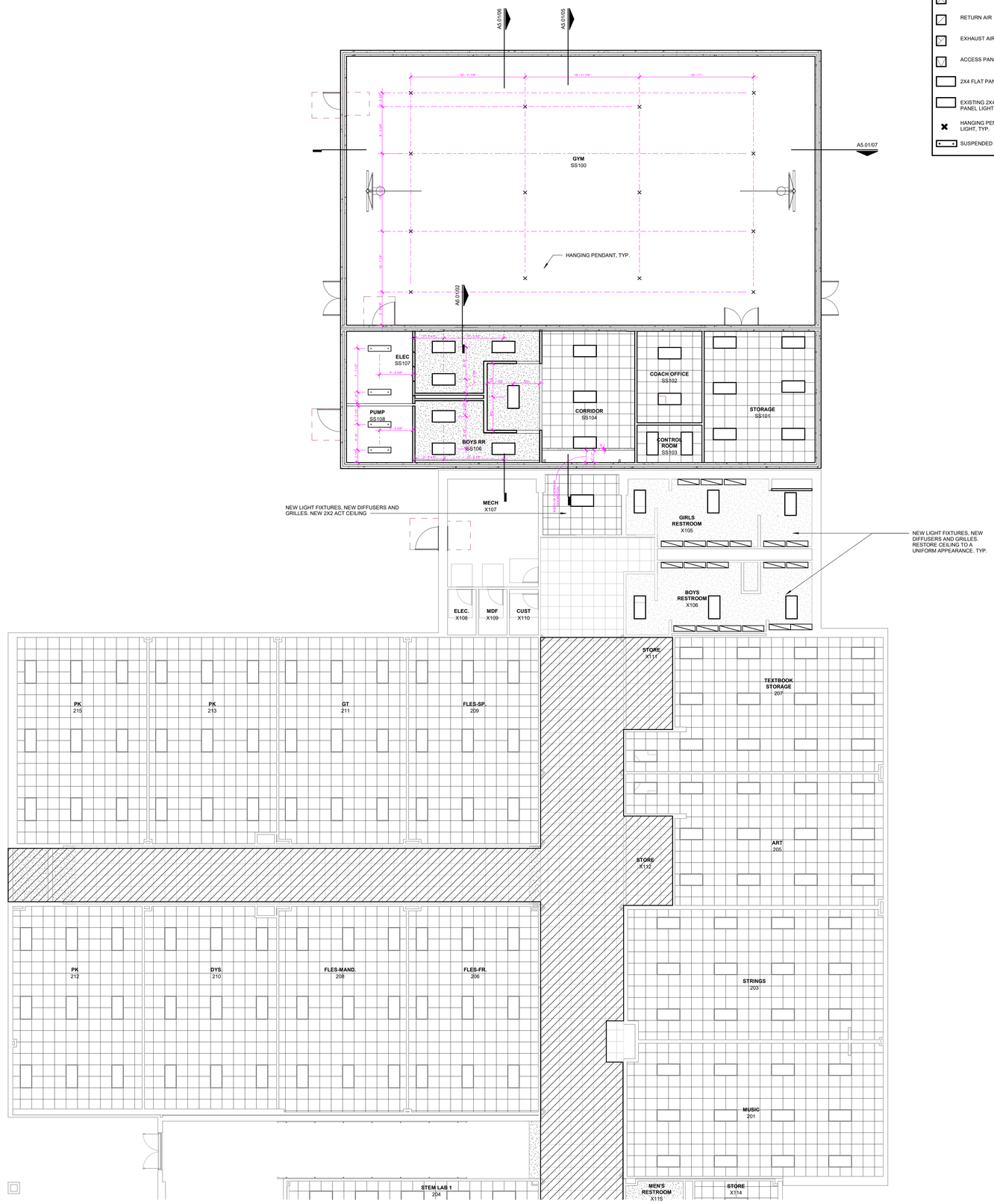
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CEILING SYMBOLS LEGEND

- GYPSUM BOARD CEILING
- ACT-01 CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- 2X4 FLAT PANEL LIGHT
- EXISTING 2X4 FLAT PANEL LIGHT
- HANGING PENDANT LIGHT, TYP.
- SUSPENDED LIGHT

GENERAL NOTES - REFLECTED CEILING PLAN

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N **01 REFLECTED CEILING PLAN - AREA A**
1/8" = 1'-0"

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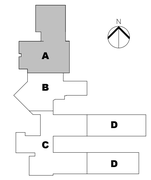
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WIMBISH WORLD LANGUAGE ACADEMY

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04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
REFLECTED CEILING PLAN - AREA A

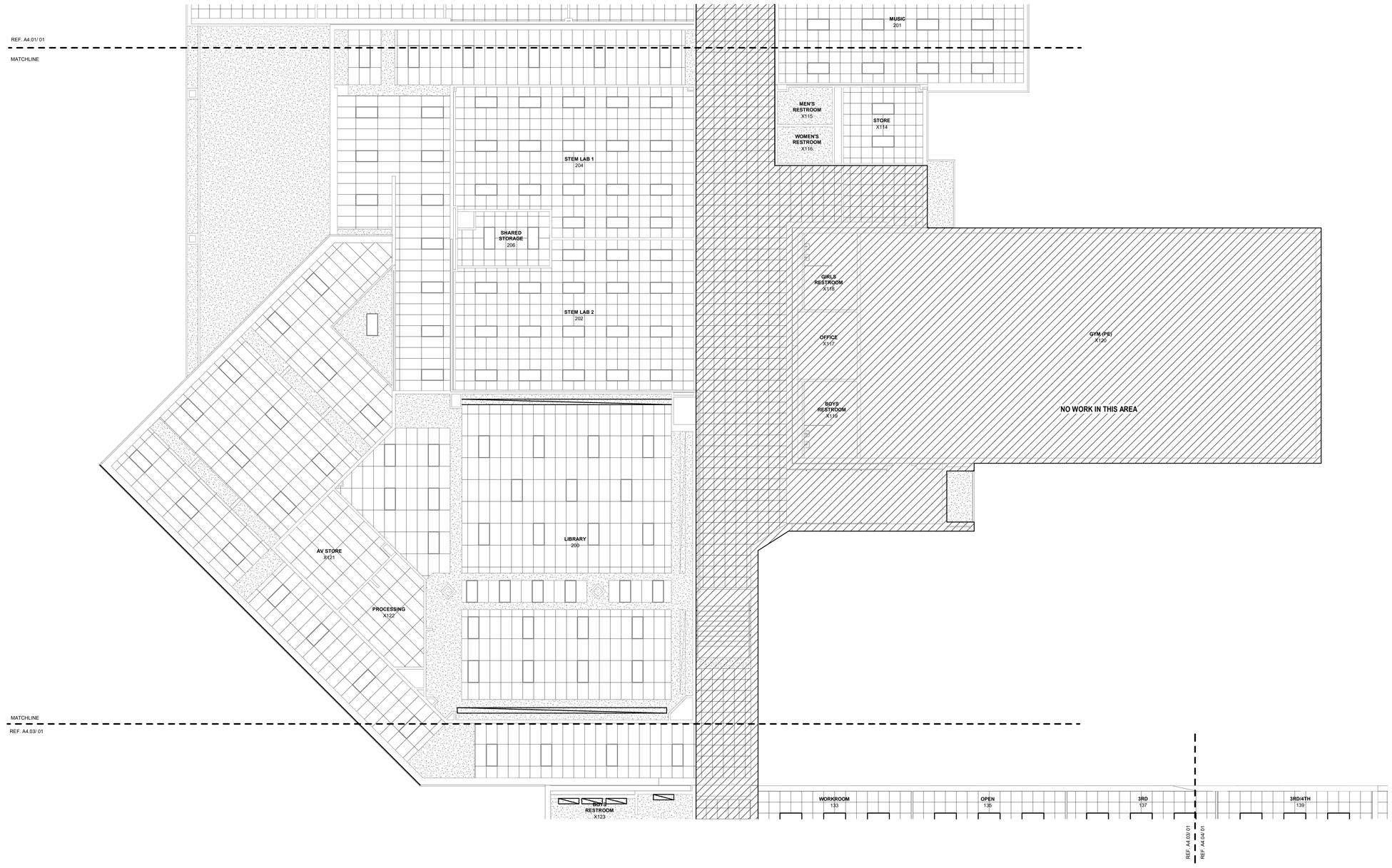
SHEET NO.
A4.01

CEILING SYMBOLS LEGEND

- GYPSUM BOARD CEILING
- ACT-01 CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- 2X4 FLAT PANEL LIGHT
- EXISTING 2X4 FLAT PANEL LIGHT

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01 REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

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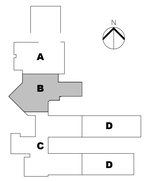
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT — JOSHUA REYNOLDS — STATE OF TEXAS

04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

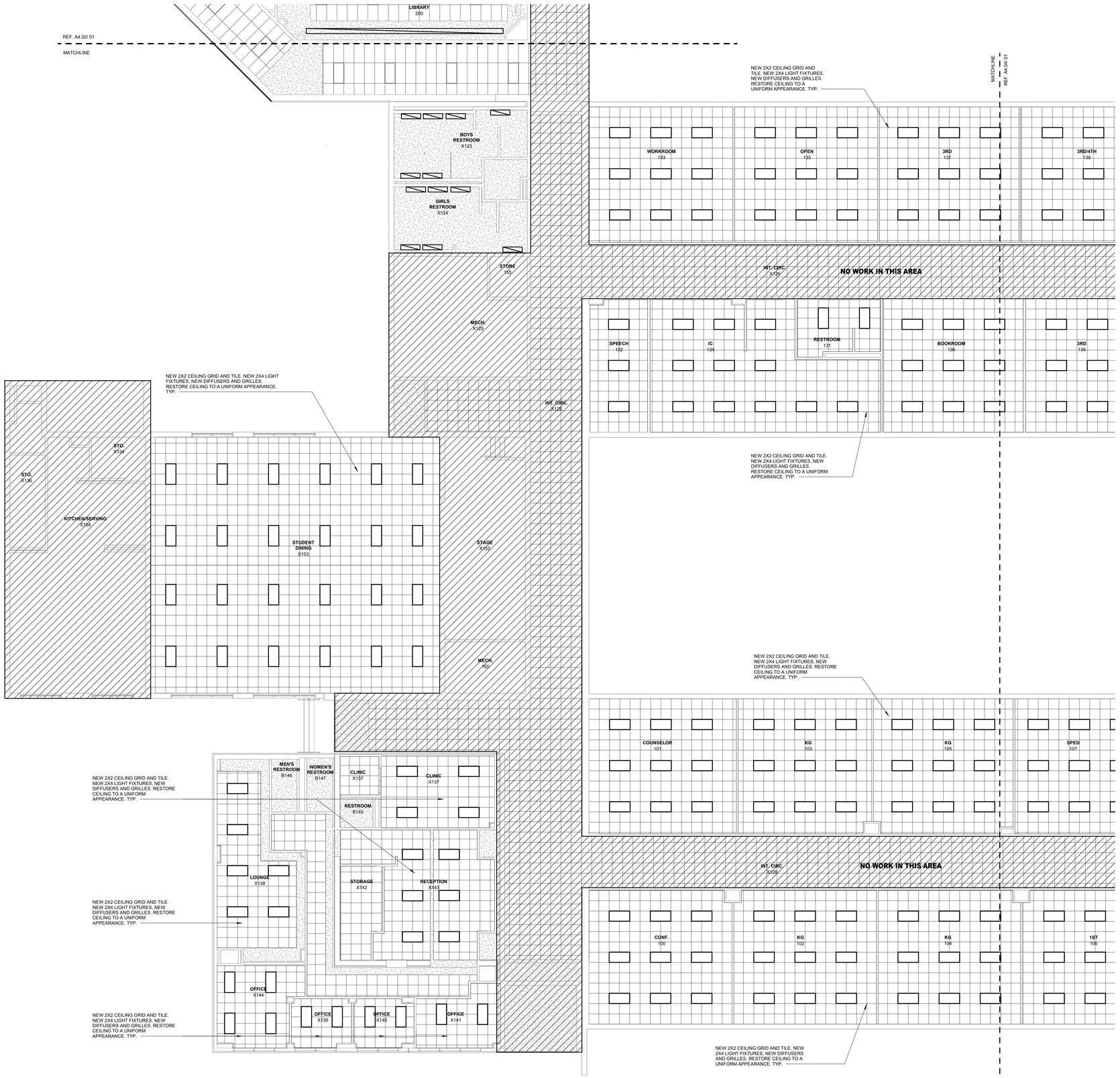
DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
REFLECTED CEILING PLAN - AREA B

SHEET NO.
A4.02

PLOT DATE: 4/24/2026 8:49:43 AM
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CEILING SYMBOLS LEGEND

- GYPSUM BOARD CEILING
- ACT-01 CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- 2X4 FLAT PANEL LIGHT
- EXISTING 2X4 FLAT PANEL LIGHT

GENERAL NOTES - REFLECTED CEILING PLAN

1. MATCH EXISTING CEILING HEIGHT ABOVE FINISH FLOOR AT EXISTING LOCATIONS, U.N.O.
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N

01 REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

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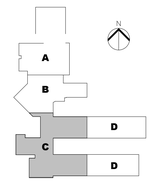
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT
JO WAYNE REYNOLDS
STATE OF TEXAS

04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

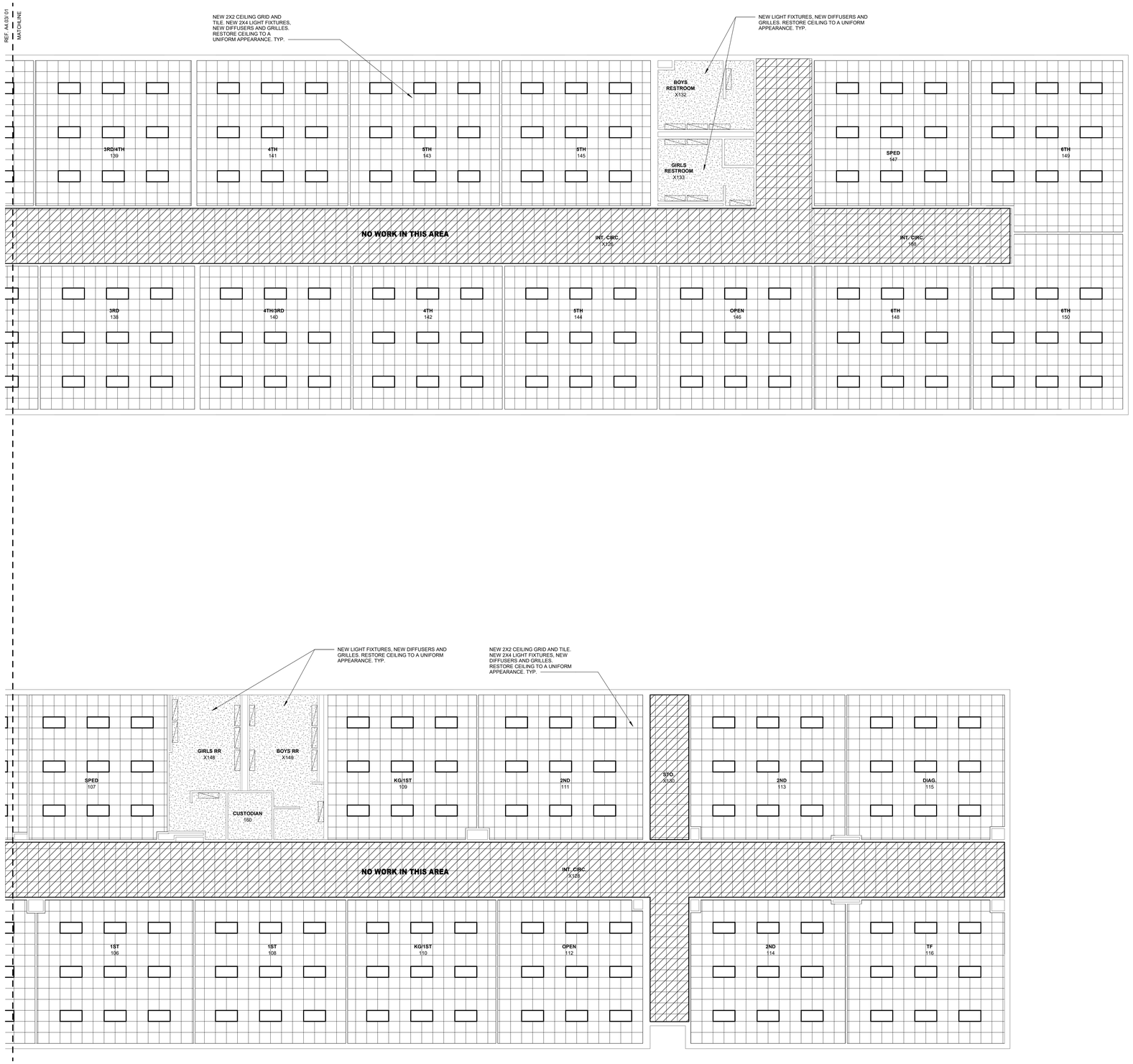
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SHEET TITLE
REFLECTED CEILING PLAN - AREA C

SHEET NO.
A4.03

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CEILING SYMBOLS LEGEND

- GYPSUM BOARD CEILING
- ACT-01 CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
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- 2X4 FLAT PANEL LIGHT
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01 REFLECTED CEILING PLAN - AREA D
1/8" = 1'-0"

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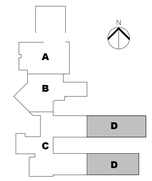
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
REFLECTED CEILING PLAN - AREA D

SHEET NO.
A4.04

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EXTERIOR FINISH SCHEDULE

EXTERIOR MASONRY VENEER (VENEER TO BE CAST INTO CONCRETE PANELS.)

BR-01

TYPE: PCI STANDARD THIN BRICK
MANUF: METROBRICK
COLOR: 350 MAIN STREET FLASHED
SIZE: MODULAR
INSTALL: RUNNING BOND

BR-02

TYPE: PCI STANDARD THIN BRICK
MANUF: METROBRICK
COLOR: 101 COMMONS
SIZE: MODULAR
INSTALL: SOLDIER COURSE

BR-03

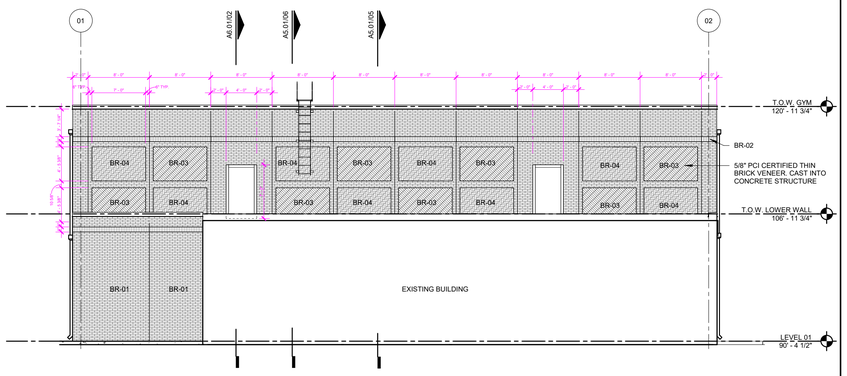
TYPE: PCI STANDARD THIN BRICK
MANUF: METROBRICK
COLOR: 350 MAIN STREET FLASHED
SIZE: MODULAR
INSTALL: STACK BOND 45°

BR-04

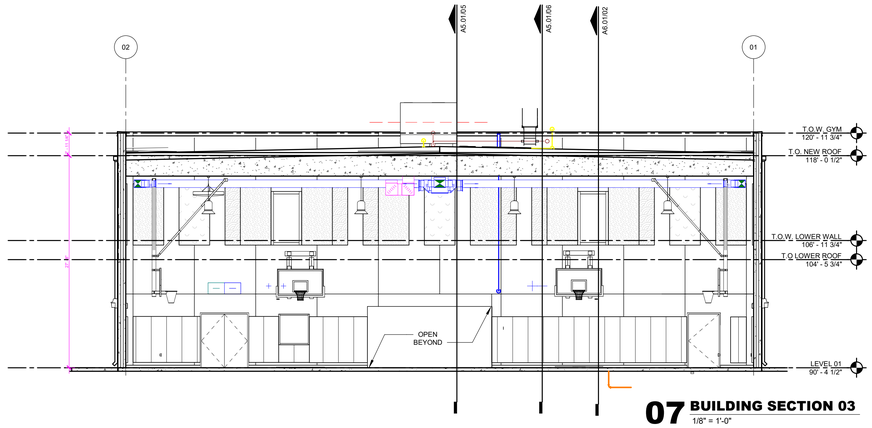
TYPE: PCI STANDARD THIN BRICK
MANUF: METROBRICK
COLOR: 350 MAIN STREET FLASHED
SIZE: MODULAR
INSTALL: HERRINGBONE SINGLE

ALUMINUM WINDOW SYSTEM

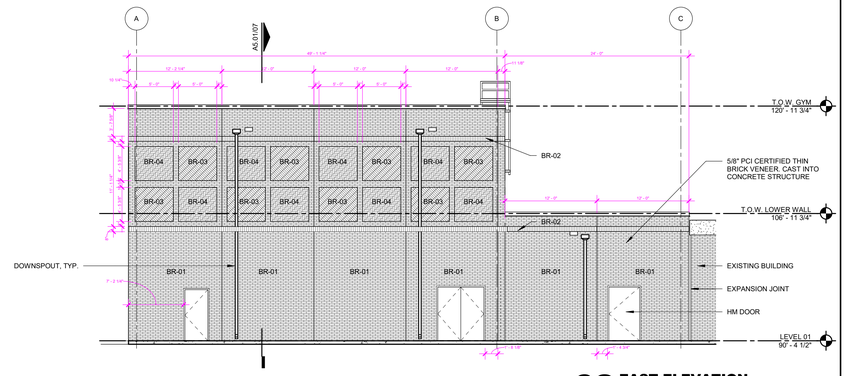
MANUF: TBD
COLOR: TBD



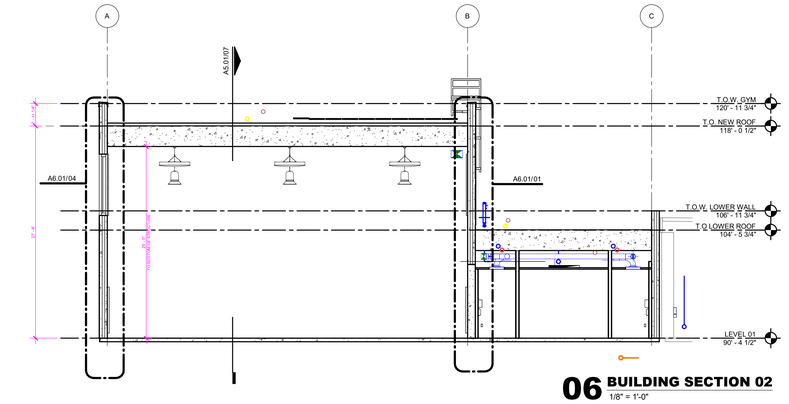
04 SOUTH ELEVATION
1/8" = 1'-0"



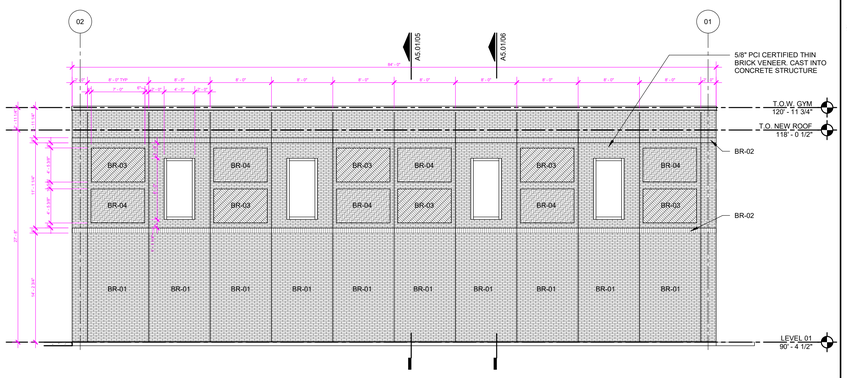
07 BUILDING SECTION 03
1/8" = 1'-0"



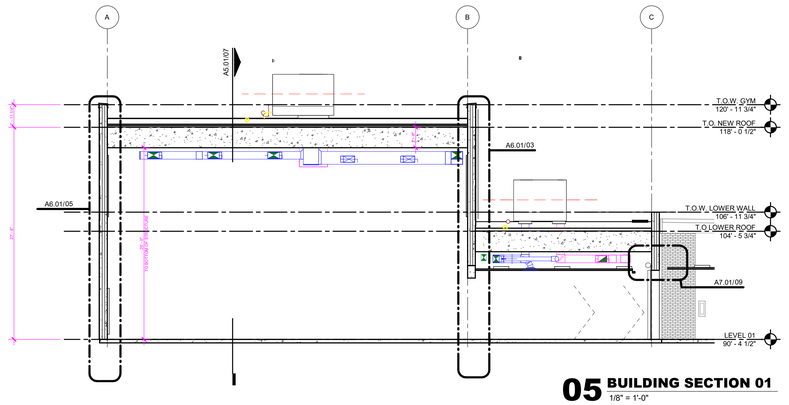
03 EAST ELEVATION
1/8" = 1'-0"



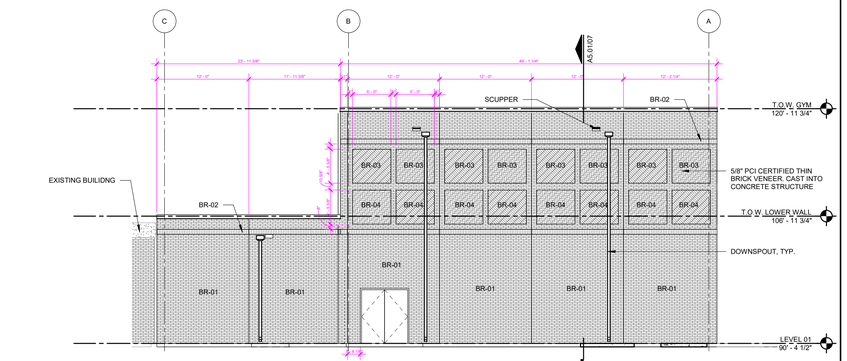
06 BUILDING SECTION 02
1/8" = 1'-0"



02 NORTH ELEVATION
1/8" = 1'-0"



05 BUILDING SECTION 01
1/8" = 1'-0"



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

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WIMBISH WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE



04-24-2026

REVISION NO. | DESCRIPTION | DATE

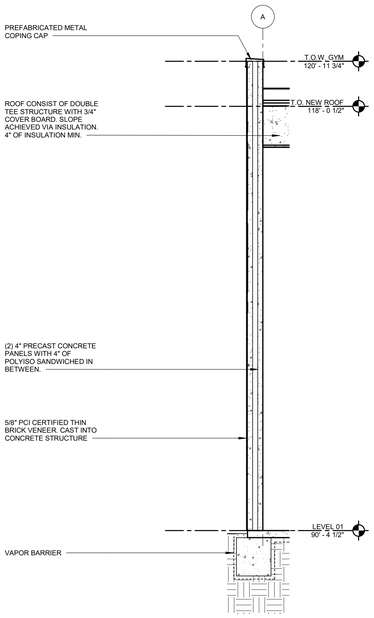
HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

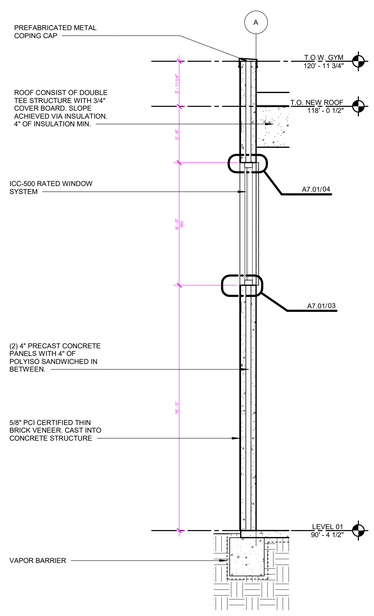
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BID SET

SHEET TITLE
ELEVATIONS AND SECTIONS

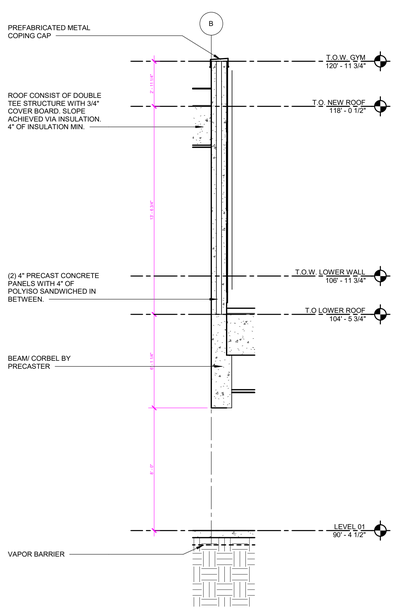
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A5.01



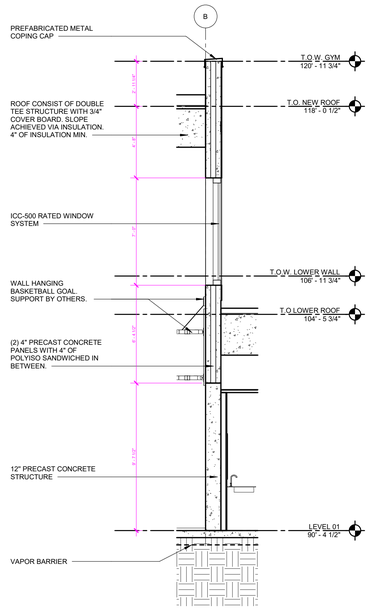
05 WALL ASSEMBLY 05
1/4" = 1'-0"



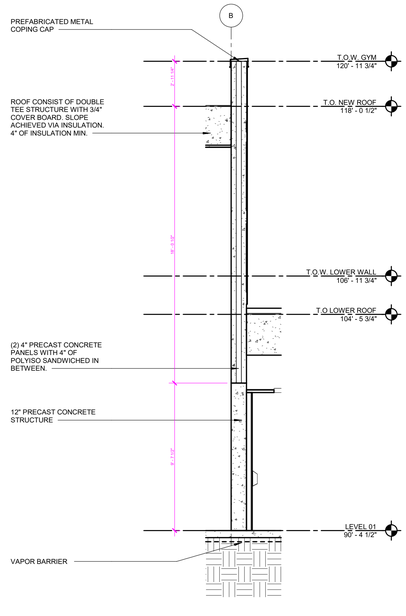
04 WALL ASSEMBLY 04
1/4" = 1'-0"



03 WALL ASSEMBLY 03
1/4" = 1'-0"



02 WALL ASSEMBLY 02
1/4" = 1'-0"



01 WALL ASSEMBLY 01
1/4" = 1'-0"

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SEAL & SIGNATURE



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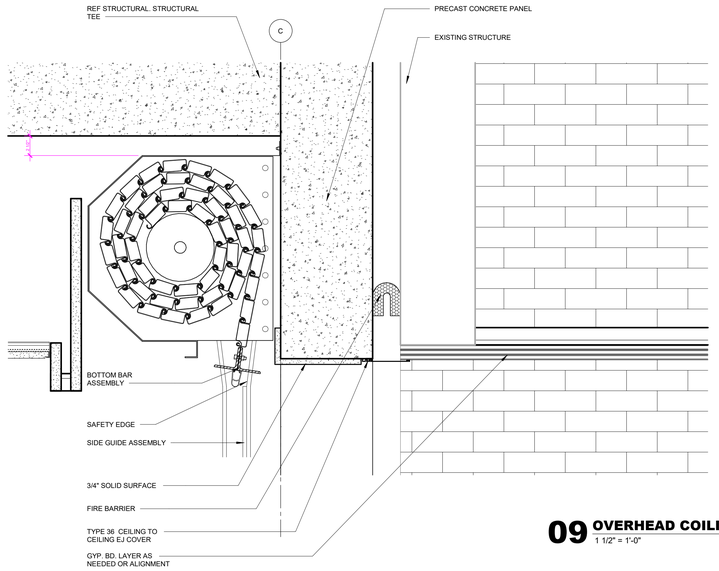
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SHEET TITLE
BUILDING SECTIONS

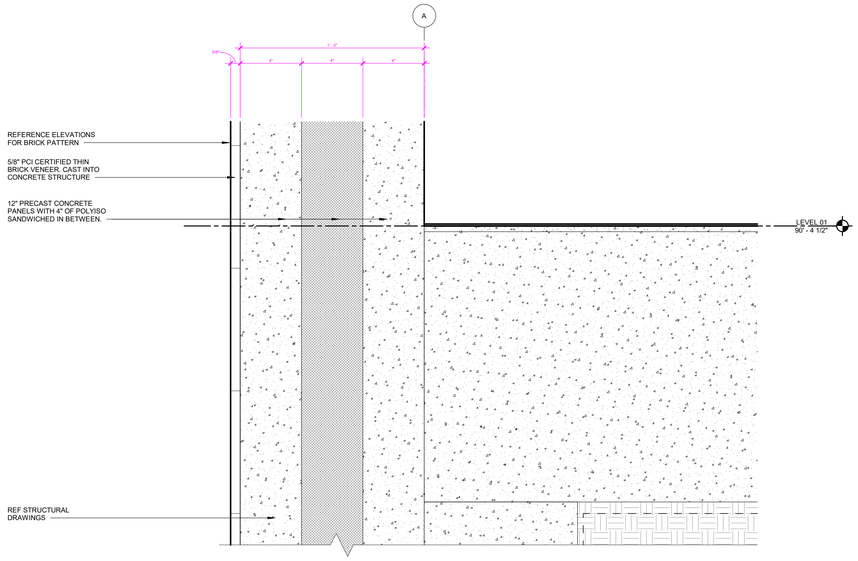
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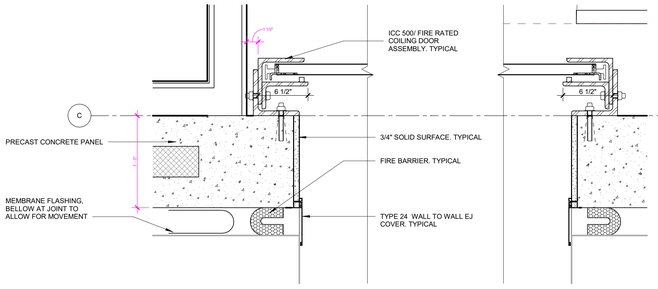
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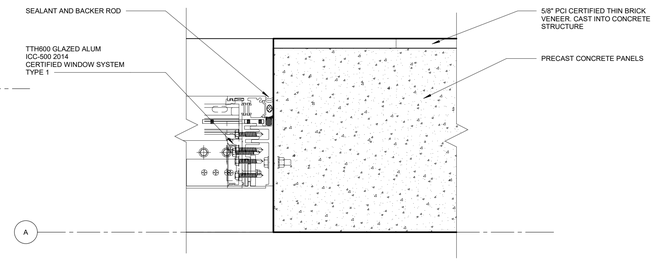


09 OVERHEAD COILING DOOR HEAD
1 1/2" = 1'-0"

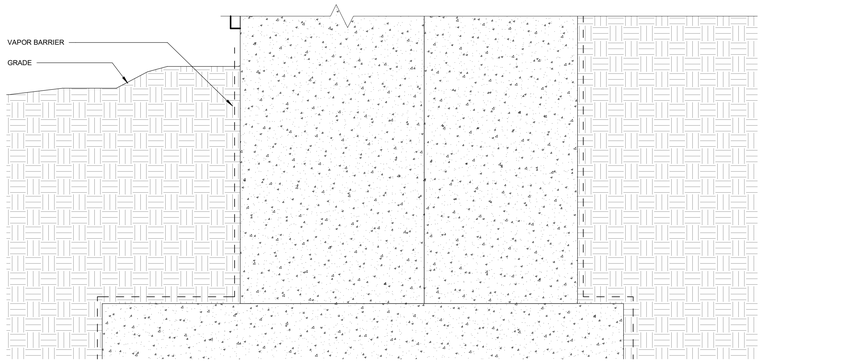




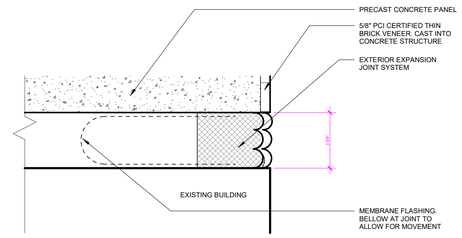
08 OVERHEAD COILING DOOR JAMB AND WALL COVERING
1 1/2" = 1'-0"



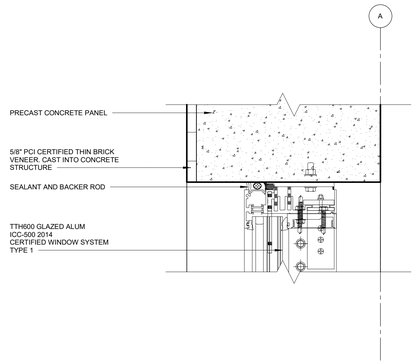
05 ICC-500 WINDOW JAMB AT PRECAST PANELS
3" = 1'-0"



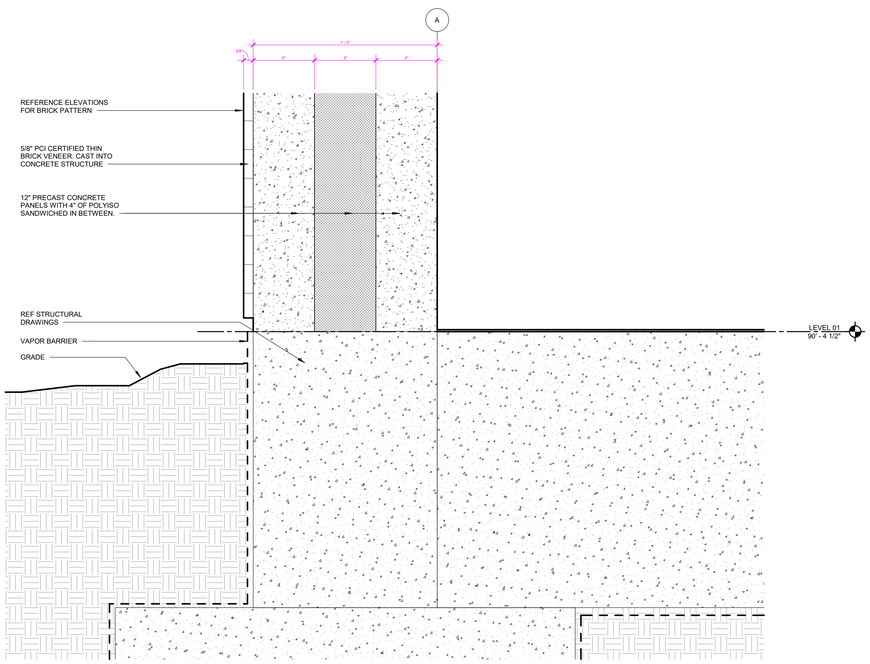
02 FOUNDATION DETAIL 02
3" = 1'-0"

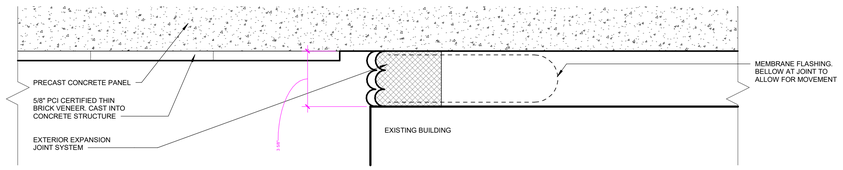


07 EXTERIOR EXPANSION JOINT 02
3" = 1'-0"

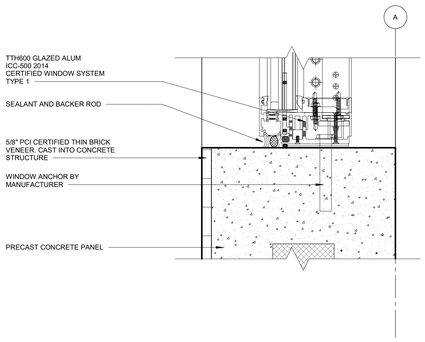


04 ICC-500 WINDOW HEAD AT PRECAST PANELS
3" = 1'-0"





06 EXTERIOR EXPANSION JOINT 01
3" = 1'-0"



03 ICC-500 WINDOW SILL AT PRECAST PANELS
3" = 1'-0"

01 FOUNDATION DETAIL 01
3" = 1'-0"

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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT STEPHEN MICHAEL WEBB 27570 STATE OF TEXAS

04-24-2026

REVISION

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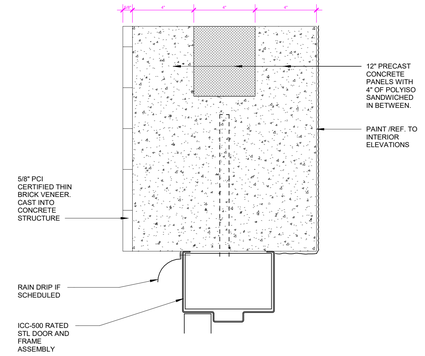
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DATE
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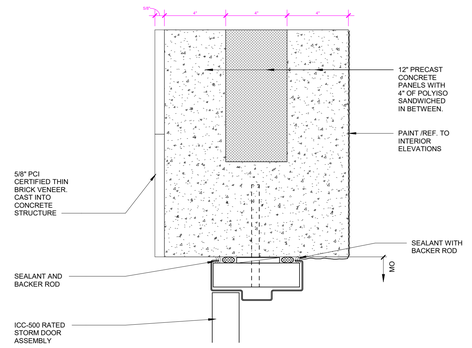
SHEET TITLE
BUILDING DETAILS

SHEET NO.
A7.01



02 HEAD DETAIL AT STORM SHELTER

3" = 1'-0"



01 JAMB DETAIL AT STORM SHELTER

3" = 1'-0"

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WORLD LANGUAGE ACADEMY

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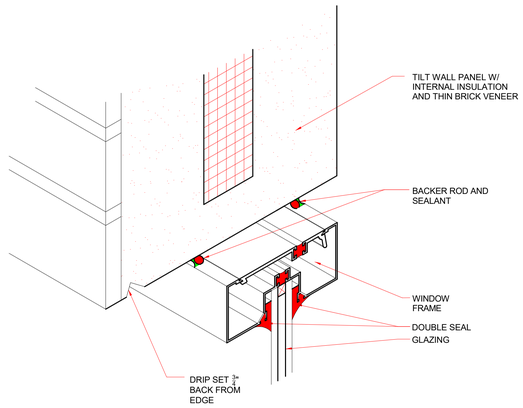
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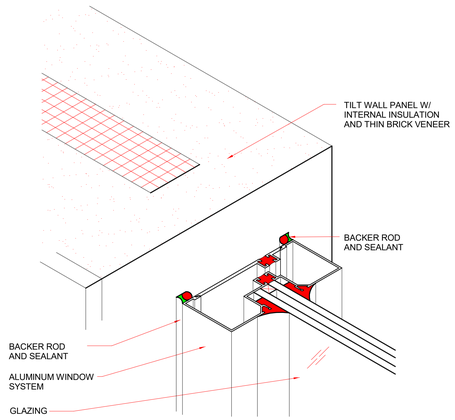
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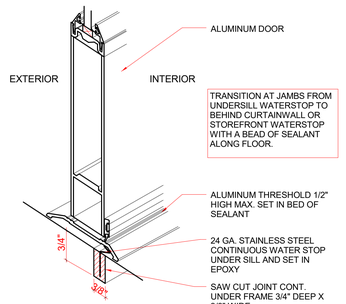
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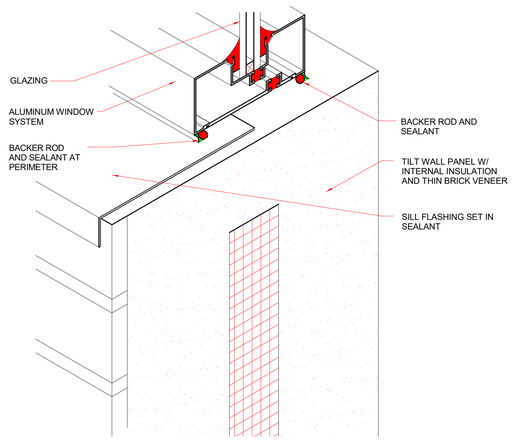
3 WINDOW HEAD AT SANDWICH PANEL
NOT TO SCALE



2 WINDOW JAMB AND SANDWICH PANEL
NOT TO SCALE



5 DOOR THRESHOLD WATER STOP AT FLOOR
NOT TO SCALE



1 WINDOW SILL AT SANDWICH PANEL
NOT TO SCALE

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WIMBISH
WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT
STATE OF TEXAS
16663

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

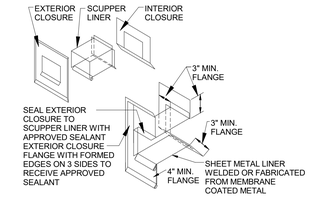
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ENVELOPE FLASHING DETAILS

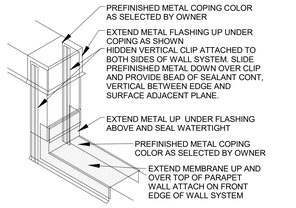
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GENERAL ROOF NOTES:

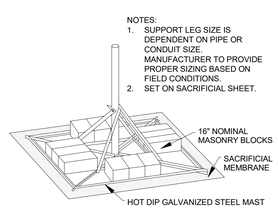
A. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
B. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL' COMPLETE AND READY TO USE.
C. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
D. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
E. PROVIDE METAL END CLOSURE ON EXPANSION JOINTS WHERE THEY OCCUR AT THE EDGE OF THE ROOF.
F. ROOF SLOPES SHOWN ON DRAWINGS ARE GENERAL AND CONCEPTUAL ONLY. TAPER INSULATION IS SHOWN CONCEPTUALLY AND FOR INTENT ONLY; NOT TO SCALE AND SHOWN AS GRAPHIC REPRESENTATION ONLY TO SHOW SLOPE. INTENT IS TO PROVIDE POSITIVE DRAINAGE TO ALL ROOF DRAINS, SCUPPERS, AND GUTTERS. VERIFY INSULATION AND TAPER IN SHOP DRAWINGS AS REQUIRED TO MAINTAIN SLOPE PRIOR TO INSTALLATION. REFER TO STRUCTURAL (IF APPLIES) FOR EXACT TOS/BOD ELEVATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
G. PROVIDE TAPERED INSULATION CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS, SMOKE VENTS, ROOF HATCHES, AND OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND AND TO ENSURE POSITIVE ROOF DRAINAGE.
H. PROVIDE ADDITIONAL MANUFACTURER'S WALK PADS AS PROTECTION AT "SERVICE SIDE" OF ALL MECHANICAL EQUIPMENT - FIELD VERIFY LOCATIONS. AS WELL AS PROTECTION AT "ACCESS SIDE" OF ALL ROOF HATCHES AND ROOF ACCESS LADDERS - FIELD VERIFY LOCATIONS, AND AT DOWNSPOUT LOCATIONS.
I. ALL WOOD BLOCKING AT ROOF EDGES ARE TO BE FABRICATED FROM CONT. 2X6 FR-WD BOARDS. PROVIDE LARGER 2X FR-WD AS REQUIRED PER DIMENSIONED DETAILS OR AS FIELD CONDITIONS DICTATE. ALL COPING TO BE SLOPED TOWARD THE INTERIOR.
J. ALL EXPOSED FLASHING, COPING (IF APPLICABLE), AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PREFINISHED (TYPICAL) AND VISIBLE FROM THE GROUND.
K. HEIGHT OF ALL NAILERS SHALL BE FLUSH WITH NEW INSULATION THICKNESS.
L. ALL THROUGH WALL FLASHING SYSTEMS TO ACCOMMODATE 8" MINIMUM FLASHING HEIGHT FROM FINISHED ROOF SURFACE. PROVIDE END DAMS AS CONDITIONS ALLOW. ALL FLASHING TO HAVE 4" LAP MINIMUM AND OR STEP.
M. ALL PITCH PANS SHALL BE DOUBLE SOLDERED STAINLESS STEEL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECKS OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
N. ALL INFIELD EXPANSION JOINTS SHALL HAVE LOW SLOPED STANDING SEAM JOINTS AND SHALL BE CHAMFERED AT TERMINATION AT ROOF EDGE TO MEET PROFILE OF PERIMETER.
O. ANY CRACKS OR VOIDS IN RISE WALLS ABOVE COUNTER FLASHING SHALL BE REPAIRED WITH COMPATIBLE SEALANT.
P. ALL VERTICAL MEMBRANE FLASHING SHALL BE MECHANICALLY FASTENED AND INSTALLED WITH NEW METAL COUNTER FLASHING UTILIZING A CONTINUOUS CLEAT. SLIDE METAL COVER PLATE DOWN OVER VERTICAL CLEAT AND SEAL.
Q. PROVIDE NEW CONCRETE SPLASH BLOCKS ON ROOF ELEVATION ON TOP OF A WALK PAD WHERE DOWNSPOUTS OCCUR.
R. ALL PIPES AND CONDUIT SHALL RECEIVE PIPE SUPPORTS AND RELATED SHIMS AND SHALL BE PLACED ON AN ADDITIONAL ADHERED ROOF MEMBRANE UNDER SPECIFIED WALK PAD PRIOR TO SURFACE APPLICATION. SUPPORTS TO OCCUR AT 10'-0" O.C. AND WITHIN 2'-0" OF ALL SLOPES, TEES AND CORNERS. ALL PIPES TO BE PAINTED PER BUILDING CODE REQUIREMENTS.
S. ALL METAL FLASHING SHALL EXTEND BEYOND ROOF EDGE MIN. 8" WHERE FLASHING ABUTS VERTICAL WALL SURFACE AS DETAILED. ALL FLASHING SHALL BE INSTALLED IN SHINGLE FASHION.
T. AT ALL LOCATIONS WHERE CONVERGENCE OF MULTIPLE PLANES OF ROOFING TO WALL OCCUR, FIELD FABRICATE THERMOPLASTIC BOOT TO BE INSTALLED OVER NEW ROOFING, COMPLETELY OVERLAYING THE TRANSITIONS OF ALL ROOF TO WALL, ELEVATIONS, INSIDE AND OUTSIDE 90 DEGREE CORNERS, ETC. PRIOR TO METAL INSTALLATION.
U. ALL EQUIPMENT CURBS TO BE RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
V. MECHANICAL, ELECTRICAL AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO MEP DOCUMENTS (IF APPLIES) FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
W. FLASHING AND STRIPPING MATERIALS, BASE PLY SHEETS, MEMBRANES, INSULATION, AND ACCESSORIES SHOULD BE AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER FOR INTENDED USE AND COMPATIBILITY WITH THE MEMBRANE ROOFING SYSTEM.
X. WHERE WOOD BLOCKING EXCEEDS 6" IN VERTICAL THICKNESS AT TAPERED INSULATION, PROVIDE STEM WALL CONSTRUCTED OF 6" GALVANIZED COLD FORMED METAL FRAMING AT 16" O.C. WITH CONT. TRACK AT TOP AND BOTTOM AND WITH 3/4" FR-EXT GRADE PLYWOOD AT EACH SIDE, TOP TO SLOPE WITH TAPERED INSULATION.
Y. REFER TO MEP DOCUMENTS (IF APPLIES) FOR PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
Z. PROVIDE STEP FLASHING AND COVER PLATE AT SLOPED ROOF HIGH/LOW CONDITIONS.
AA. GUTTERS SHALL BE PREFINISHED GALVANIZED STEEL, SIZE PER DRAWINGS, UNO. PROVIDE PREFINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PREFINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX, STAGGER WITH EACH OTHER AT 18" O.C.
BB. PROVIDE PREFINISHED GUTTER EXPANSION JOINTS 50'-0" O.C. MAX.
CC. DOWNSPOUTS SHALL BE 5"x6" PREFINISHED GALVANIZED STEEL UNO WHERE LOCATED ON ROOF PLAN. PROVIDE PREFINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
DD. PROVIDE CAST IRON BOOT (TYPICAL) AT ALL DOWNSPOUTS THAT ARE TO GRADE, CONNECT TO STORM SEWER.
EE. PROVIDE SPLASH BLOCKS AT ALL ROOF LEADER NOZZLES THAT SPILL ONTO GROUND.
FF. VERIFY ELEVATION OF ROOF DRAIN RELATIVE TO OVERFLOW SCUPPER PRIOR TO INSTALLATION OF SCUPPERS.
GG. LOCATE SCUPPERS AS INDICATED ON ELEVATIONS, EITHER CENTERED OVER WINDOWS/OPENINGS, OR CENTERED BETWEEN WINDOWS/OPENINGS, UNO. ADJUST PLACEMENT TO MEET MASONRY COURSING MODULES.



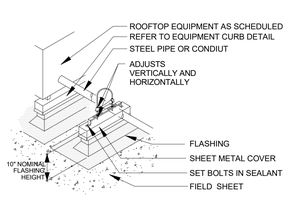
13 SCUPPER SHEET METAL
NOT TO SCALE



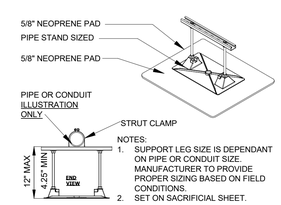
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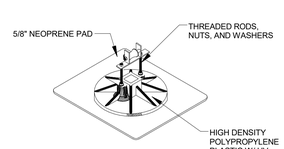
9 ANTENNA SUPPORT
NOT TO SCALE



8 PIPE STAND
NOT TO SCALE

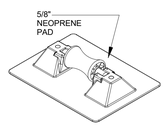


7 LARGE PIPE - PIPE STAND
NOT TO SCALE



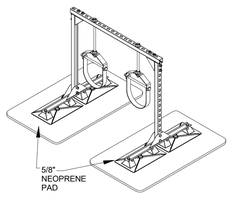
ROLLER AND SUPPORT LEG SIZE IS DEPENDENT ON PIPE OR CONDUIT SIZE. MANUFACTURER TO PROVIDE PROPER SIZING BASED ON FIELD CONDITIONS.

6 ROLLER PIPE SUPPORT
NOT TO SCALE

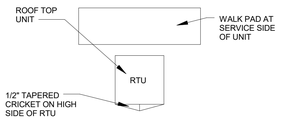


ROLLER AND SUPPORT LEG SIZE IS DEPENDENT ON PIPE OR CONDUIT SIZE. MANUFACTURER TO PROVIDE PROPER SIZING BASED ON FIELD CONDITIONS.

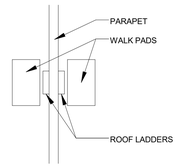
5 ROLLER PIPE SUPPORT
NOT TO SCALE



4 PIPE HANGER
NOT TO SCALE



3 ROOF TOP UNIT - WALK PAD LAYOUT
NOT TO SCALE



2 ROOF TO ROOF LADDER WITH WALK PADS
NOT TO SCALE

DO NOT MAKE REPAIRS OR ALTERATIONS
TO THIS ROOF WITHOUT APPROVAL FROM THE
DIRECTOR OF OPERATIONS AND MAINTENANCE OFFICE

PROJECT NAME
PROJECT ADDRESS

THIS ROOF IS GUARANTEED FROM XX/XX/XX UNTIL XX/XX/XX

ARCHITECT NAME, PHONE NUMBER

SCHOOL DISTRICT NAME,
DAY PHONE NUMBER
EMERGENCY PHONE NUMBER
ENVELOPE CONSULTANT NAME, PHONE NUMBER

ROOFING MANUFACTURER NAME, PHONE NUMBER

GENERAL CONTRACTOR NAME, PHONE NUMBER

ROOFING CONTRACTOR NAME, PHONE NUMBER

1 ROOF PLAQUE
NOT TO SCALE

CH CHILLER LINE
G GAS LINE
SST SPLASH PAN / SUPPORT PAD
RPH ROOF PENETRATION HOUSING
GUY WIRE
ANTENNA
SOIL / PLUMBING VENT
FLANGE MOUNTED EQUIPMENT
EDP ELECTRICAL DISTRIBUTION PANEL
HS HOT STACK
CURB MOUNTED VENT
RTU ROOF TOP UNIT
CURB MOUNTED EQUIPMENT
MISC. EQUIP. ON EQUIP. CURBS
RD PRIMARY ROOF DRAIN
OD OVERFLOW ROOF DRAIN
RD OD PRIMARY AND OVERFLOW ROOF DRAIN
DS/SB DOWNSPOUT/ SPLASHBLOCK
EJ EXPANSION JOINT
ME/G METAL EDGE W/GUTTER
ME METAL EDGE
RW RISE WALL
RME RAISED METAL EDGE
RW/EJ RISE WALL W/EXPANSION JOINT
CD CONDENSATE LINE
TEL / FO TELE / FIBER OPTICS
E ELECTRIC LINE
A ANCHOR STANCHION
V VENT STACK
WATER HYDRANT
E ELECTRIC DISCONNECT PEDESTAL
SECURITY CAMERA
PITCH PAN
PROCESS VENT STACK
FLANGE MOUNTED VENT
SATELLITE DISH
MISC. EQUIPMENT
ROOF HATCH
SL SKYLIGHT
SC THROUGH WALL SCUPPER
OS OVERFLOW SCUPPER
SC EDGE SCUPPER
DS/CH DOWNSPOUT/ COLLECTOR HEAD
DS DOWNSPOUT
P ROOF LADDER
P PARAPET
P/EJ EXPANSION JOINT AT PARAPET
SLOPE DIRECTION
P/EJ EXPANSION JOINT AT PARAPET

ROOF LEGEND

LOW SLOPE ROOF SYSTEM

NOT IN CONTRACT

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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

REGISTERED ARCHITECT 26663 STATE OF TEXAS

REVISION NO. | DESCRIPTION | DATE

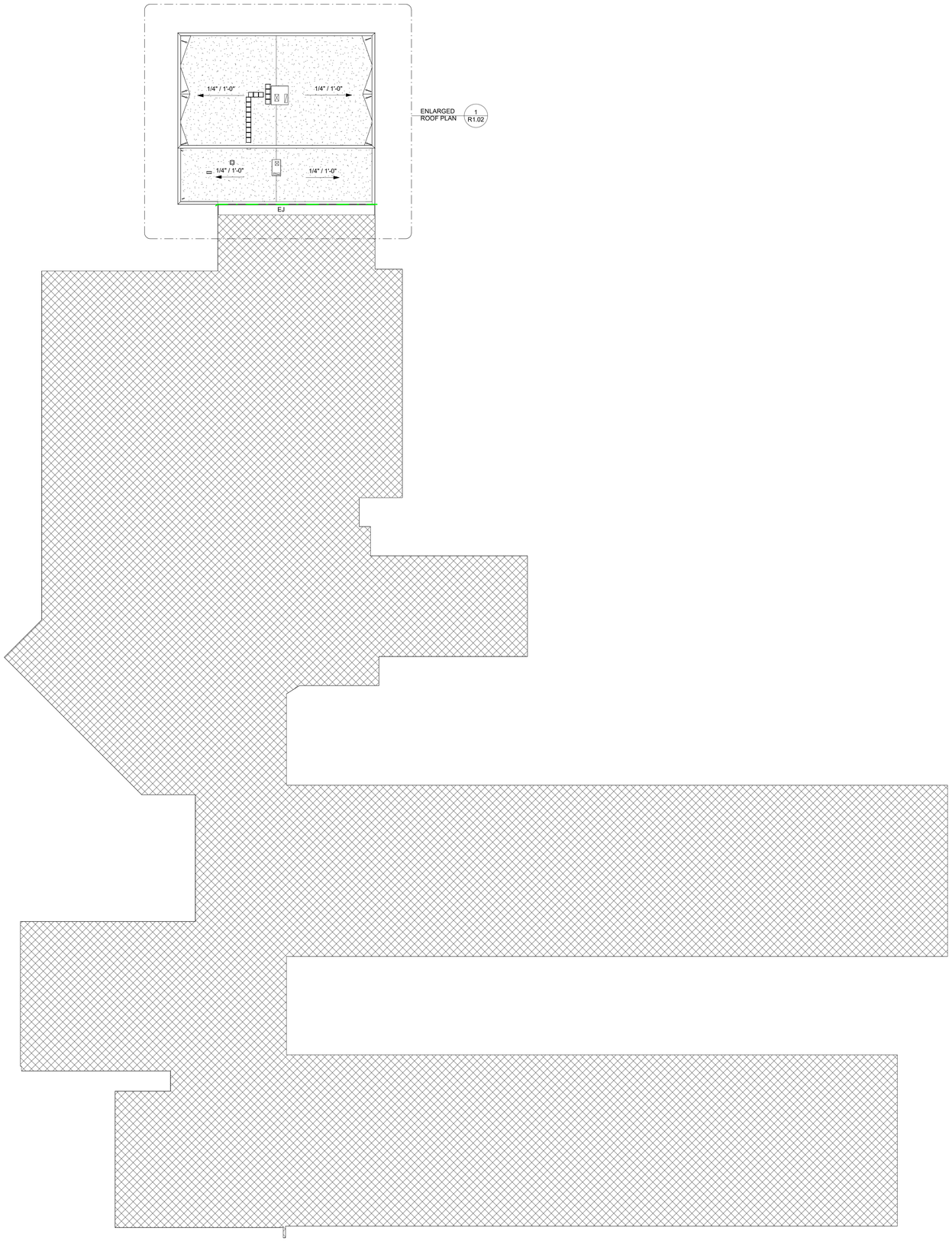
HKS PROJECT NUMBER
26399.005
DATE
04-27-2026
ISSUE
BID SET

SHEET TITLE
GENERAL ROOFING INFORMATION

SHEET NO.
R1.00

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PLOT DATE: 3/20/2026 11:01:26
TEMPLATE VERSION:



TRUE

1 OVERALL ROOF PLAN - 1/20
1" = 20'-0"

SCOPE OF WORK:

LOW SLOPE ROOF ASSEMBLY SCOPE OF WORK AT STORM SHELTER CONCRETE DECK SLOPE IN TAPERED INSULATION

- CONTRACTOR SHALL NOT INSTALL ANY ROOFING MATERIAL TO THE CONCRETE DECK PRIOR TO SUCCESSFUL ADHESION PULL TEST OF MEMBRANE PER MEMBRANE MANUFACTURER'S GUIDELINES.
- PROVIDE VENTING BASE SHEET SET IN HOT ASPHALT.
- INSTALL POLYISOCYANURATE INSULATION, EQUAL TO R-33.
- PROVIDE FIRST LAYER OF POLYISOCYANURATE SET IN HOT ASPHALT.
- PROVIDE SECOND LAYER OF POLYISOCYANURATE IN HOT ASPHALT.
- PROVIDE ONE QUARTER INCH (1/4") PER FOOT TAPERED INSULATION SYSTEM SET IN HOT ASPHALT.
- PROVIDE ALL ASSOCIATED CRICKETS AS NOTED ON THE ROOF PLAN.
- PROVIDE A 1/2" GYPSUM COVERBOARD SET IN HOT ASPHALT.
- INSTALL 4-PLY TYPE VI FELTS SET IN HOT ASPHALT.
- PROVIDE FLOOD COAT AND GRAVEL #550 PER SQUARE.
- PROVIDE TREATED/FR WOOD NAILERS AROUND THE PERIMETER AND ALL PENETRATIONS TO MATCH ROOF THICKNESS.
- PROVIDE ALL ASSOCIATED METAL TRIM, AND COPING.
- PROVIDE 20 YEAR NDL WARRANTY.
- PROVIDE 2 YEAR CONTRACTOR'S WARRANTY.

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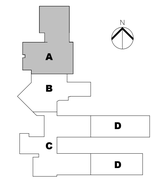
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KEY PLAN

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NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
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DATE
04-27-2026

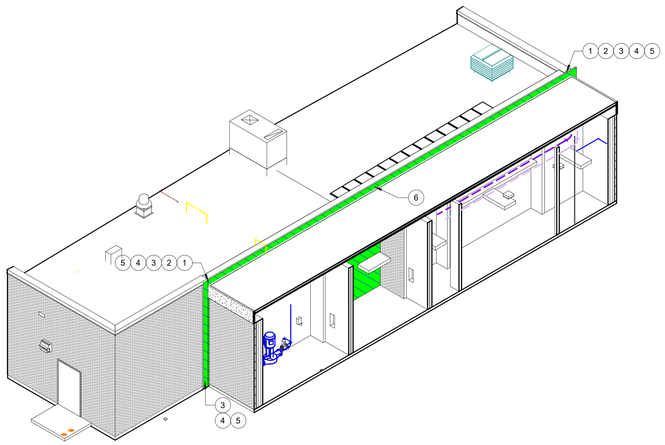
ISSUE
BID SET

SHEET TITLE
OVERALL ROOF PLAN

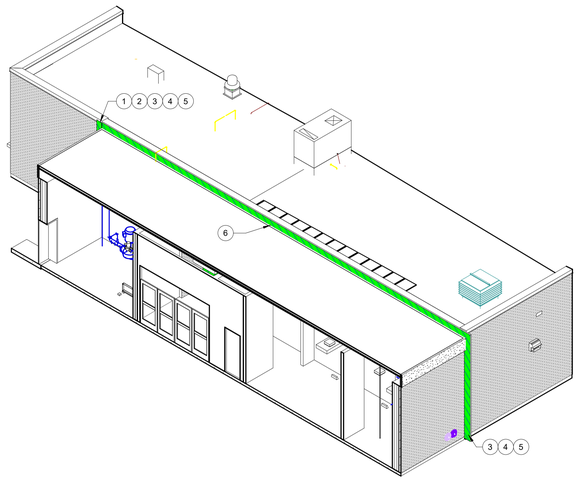
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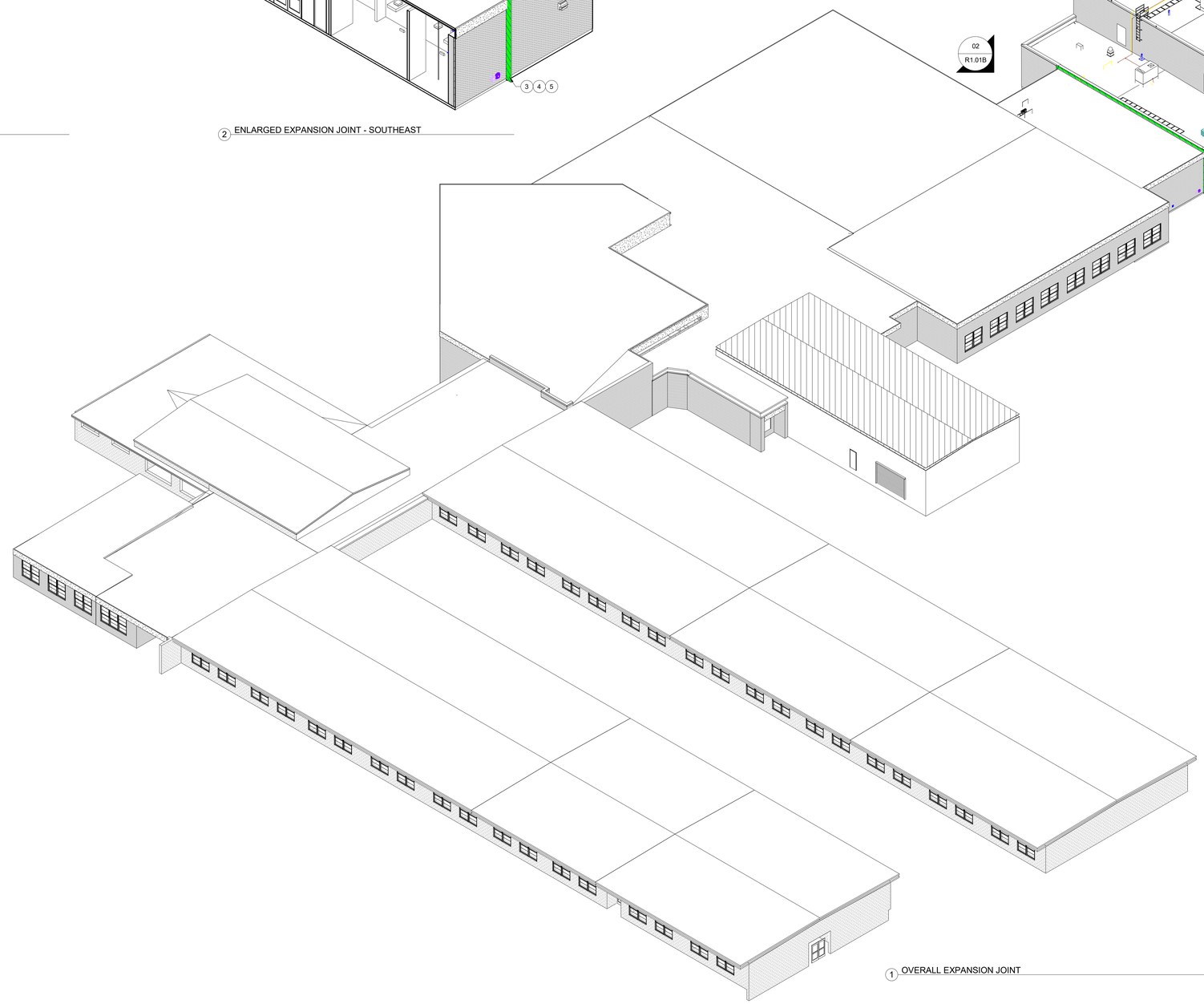
3 ENLARGED EXPANSION JOINT - SOUTHWEST



2 ENLARGED EXPANSION JOINT - SOUTHEAST

SPECIFIC EXPANSION JOINT NOTES:

1. EXTEND EXPANSION JOINT THROUGH THE PARAPET AND FLASH WATERTIGHT. COVER WITH METAL FLASHING.
2. TAPER THE TOP OF THE EXPANSION JOINT AS REQUIRED TO MAINTAIN 8" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
3. TRANSITION EXPANSION JOINT TO OTHER SIDE OF WALL SYSTEM AND FLASH THE CONDITION WATERTIGHT.
4. PROVIDE METAL END CLOSURE WHERE EXPANSION JOINT TERMINATES.
5. PROVIDE VERTICAL EXPANSION JOINT WHERE NEW CONSTRUCTION ABUTS EXISTING. PROVIDE VERTICAL FLEXIBLE EMBED MEMBRANE ALONG VERTICAL EXPANSION JOINT. INSTALL 2-PIECE, 24 GA. EXPANSION COVER FASTENED TO Z-CLIPS FASTENED TO EACH SIDE AT 12" O.C. FULL HEIGHT OF THE JOINT AND TERMINATE UNDER THE COPING AT THE TOP OF THE WALL TO CREATE A WATERTIGHT CONDITION.
6. PROVIDE NEW EXPANSION JOINT ON EXISTING ROOF EDGE.



1 OVERALL EXPANSION JOINT

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SEAL & SIGNATURE

REGISTERED ARCHITECT 16663 STATE OF TEXAS

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

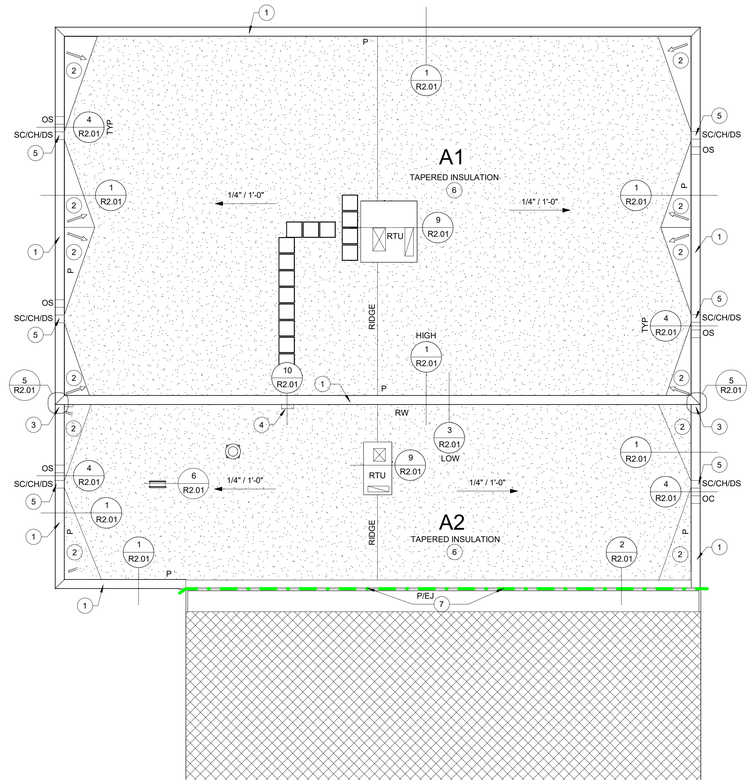
ISSUE
BID SET

SHEET TITLE
EXPANSION JOINTS

SHEET NO.
R1.01A

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PLOT DATE: 3/25/2026 11:01:37
TEMPLATE VERSION:



TRUE

1 ENLARGED ROOF PLAN
1/8" = 1'-0"

SPECIFIC ROOF NOTES:

1. PREFINISHED METAL COPING.
2. PROVIDE 1/2" PER FOOT TAPERED CRICKETS.
3. PROVIDE NEW THERMOPLASTIC BOOT AT PARAPET TO RISE WALL TRANSITION.
4. PROVIDE ROOF TO ROOF ACCESS LADDER WITH WALK PADS AT LOW AND HIGH SIDES ON ROOF SURFACE.
5. PROVIDE PRIMARY AND OVERFLOW SCUPPERS WITH PREFINISHED COLLECTOR HEAD AND DOWNSPOUT TO ROOF BELOW AT PRIMARY SCUPPER.
6. PROVIDE 1/4" PER FOOT TAPERED INSULATION SLOPED AS SHOWN ON PLAN.
7. REMOVE EXISTING METAL EDGE FLASHING AND STRIP IN PLY SHEETS AT APPROXIMATELY 3'-0" FROM EDGE OF ROOF. INSTALL NEW F.R.T. WOOD EXPANSION JOINT, PATCH IN INSULATION AS REQUIRED AND STRIP IN NEW EJ INTO EXISTING ROOF SYSTEM. PROVIDE NEW SHEET METAL EXPANSION JOINT COVER AS DETAILED.

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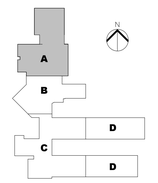
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WIMBISH
WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

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REGISTERED ARCHITECT
16663
STATE OF TEXAS



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
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DATE
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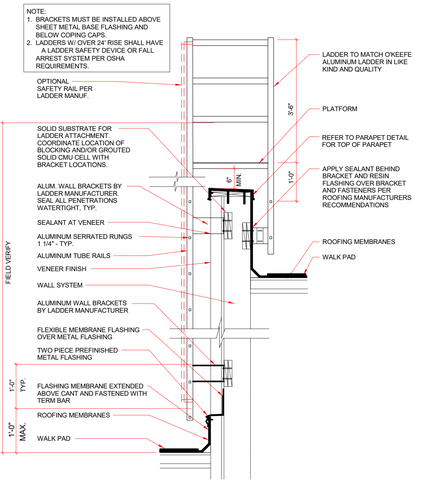
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ENLARGED ROOF PLAN

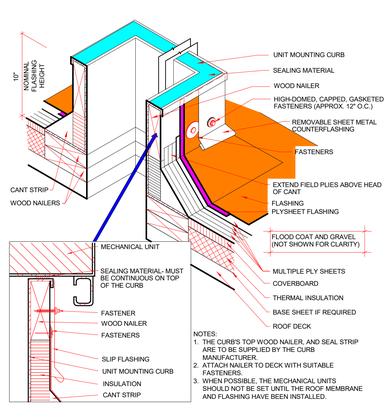
SHEET NO.
R1.02

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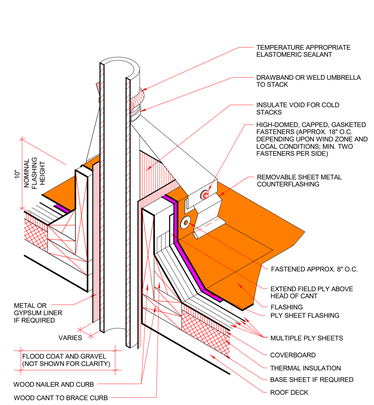
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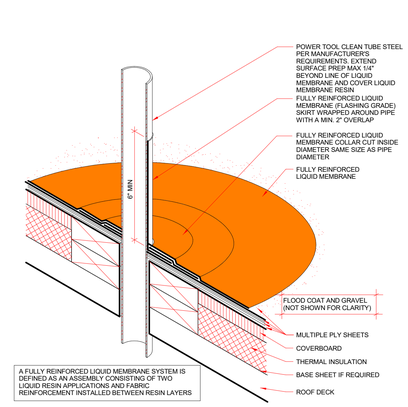
10 ROOF LADDER
NOT TO SCALE



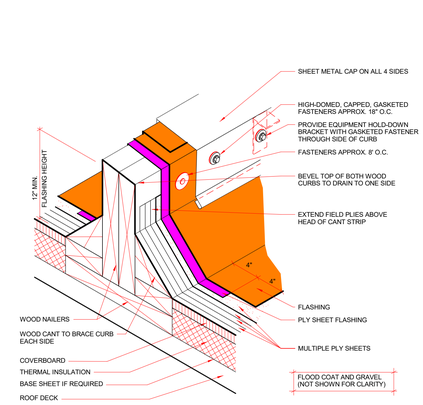
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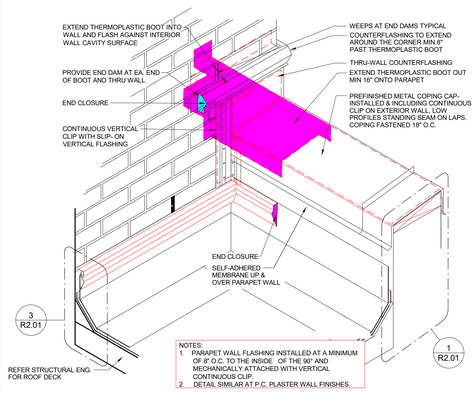
8 HOT STACK ROOF PENETRATION FLASHING
NOT TO SCALE



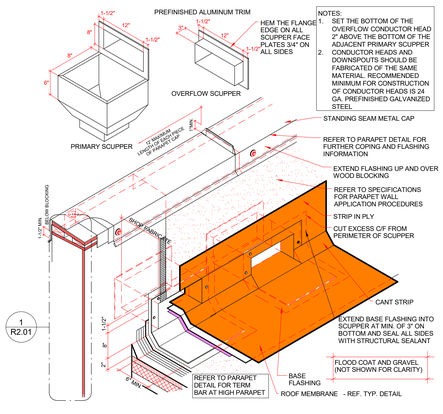
7 LIQUID FLASHING AT ROOF PENETRATION
NOT TO SCALE



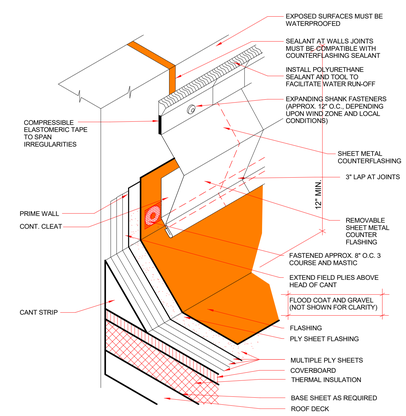
6 EQUIPMENT CURB
NOT TO SCALE



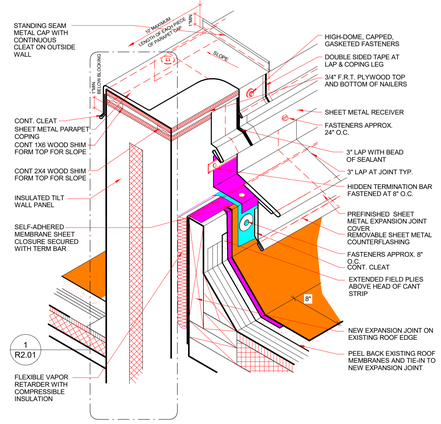
5 PARAPET TO BRICK RISEWALL AT CORNER
NOT TO SCALE



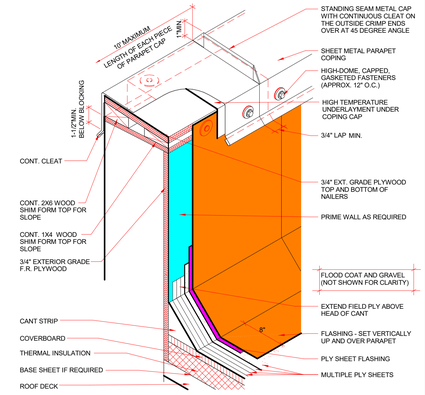
4 PRIMARY & SECONDARY SCUPPERS
NOT TO SCALE



3 ROOF TO RISEWALL
NOT TO SCALE



2 EXPANSION JOINT TRANSISION FORM EXISTING ROOF TO NEW ROOF PARAPET
NOT TO SCALE



1 PARAPET
NOT TO SCALE

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REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
ROOF DETAILS

SHEET NO.
R2.01

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PLOT DATE: 3/23/2026 11:01:39
TEMPLATE VERSION:

DESIGN CRITERIA

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE 2021 EDITION (IBC) AND ITS REFERENCED STANDARDS AS FOLLOWS:
   - ASCE 7 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
   - ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   - AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
2. GRAVITY DESIGN LOADS ARE AS LISTED IN TABLE D1.
3. WIND DESIGN - BASIC DESIGN WIND LOADS ARE IN ACCORDANCE WITH THE PROVISIONS OF THE IBC AND ASCE 7. WIND LOAD CRITERIA IS LISTED IN TABLE D1.
4. SEISMIC DESIGN - THE STRUCTURE HAS BEEN DESIGNED FOR SEISMIC LOADING IN ACCORDANCE WITH THE PROVISIONS OF THE IBC AND ASCE 7. SEISMIC LOAD CRITERIA IS LISTED IN TABLE D1.
5. ROOF SNOW LOADS ARE IN ACCORDANCE TO THE IBC AND ASCE 7. SNOW LOAD CRITERIA IS LISTED IN TABLE D1.
6. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED BY THE MECHANICAL DOCUMENTS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTION SHALL BE PROVIDED AS REQUIRED BY THE INTERNATIONAL BUILDING CODE, INCLUDING BUT NOT LIMITED TO CHAPTER 17 "STRUCTURAL TEST AND SPECIAL INSPECTIONS," IN ADDITION TO ANY LOCAL OR STATE PROVISIONS. A QUALIFIED FIELD INSPECTOR APPROVED BY THE BUILDING REGULATORY AGENCY SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK.
   - A. CONCRETE
   - B. REINFORCING STEEL
   - C. FABRICATED STRUCTURAL STEEL
   - D. WELDING OF STRUCTURAL STEEL
   - E. ANCHOR BOLTS
   - F. HIGH STRENGTH BOLTING
   - G. POST INSTALLED ANCHORS
   - H. EARTHWORK EXCAVATIONS, GRADING, COMPACTED FILL, SOIL TREATMENT
2. REFER TO SPECIAL INSPECTION TABLES.
3. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR DETAILED FIELD QUALITY CONTROL REQUIREMENTS AT EACH STRUCTURAL COMPONENT AND PHASE OF CONSTRUCTION.
4. CONTRACTOR TO SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE.

DELEGATED ENGINEERING SUBMITTALS

1. THE FOLLOWING DELEGATED ENGINEERING SUBMITTALS REQUIRING STRUCTURAL ENGINEERING PRIOR TO IMPLEMENTATION ON THIS PROJECT. INDICATED ITEMS ARE SPECIALTY SYSTEMS ENGINEERED BASED ON THE SELECTED SYSTEM AND COMPONENTS TO BE INSTALLED. DESIGNATED SUBMITTALS SHALL BE AS REQUIRED BY THE SPECIFICATIONS AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF TEXAS. THE SUBMITTALS LISTED BELOW ARE NOT INTENDED TO BE EXHAUSTIVE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
   - A. STEEL CONNECTIONS FOR PRECAST MEMBERS
   - B. CONCRETE MIX DESIGNS
   - C. CURTAINWALL SYSTEM
   - D. PRECAST CONCRETE
   - E. SLOTTED CHANNEL FRAMING
   - F. HANDRAILS AND RAILINGS
   - G. SPECIALTY FOUNDATION SYSTEM
   - H. SOIL RETENTION SYSTEM
2. ENGINEERING SHALL BE BASED ON CODE REQUIRED LOADS, THE DESIGN LOADS INDICATED IN THESE DOCUMENTS, AND GENERAL ACCEPTABLE STRUCTURAL ENGINEERING PRACTICE. WIND, SEISMIC, AND SNOW LOADS SHALL BE FOR THE BUILDING TYPE/CATEGORY SHOW ON THESE DOCUMENTS. APPLICABLE LOAD REDUCTIONS FOR COMPONENT SIZE/TYPE IS ALLOWED BY CODE CAN BE TAKEN.
3. WHERE APPLICABLE, EACH SYSTEM SUBMITTAL SHALL INDICATED LOCATION OF CONNECTION POINT AND THE DESIGN LOADS IMPARTED TO THE PRIMARY STRUCTURE FOR REVIEW OF ENGINEERING.

FOUNDATION

1. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE GEOTECHNICAL RECOMMENDATIONS PREPARED BY LANDTEC ENGINEERS DATED NOVEMBER 12, 2025, WITH AN ADDENDUM DATED DECEMBER 20, 2025
2. DESIGN SOIL VALUES FOR DEEP FOUNDATIONS:
   - 20,000 PSF END BEARING IN REDDISH TAN SAND
   - 1,000 PSF SIDE FRICTION FOR GRAVITY LOADS FROM 10 TO 27 FT
   - 2,500 PSF SIDE FRICTION FOR GRAVITY LOADS BELOW 27 FT
   - 750 PSF SIDE FRICTION FOR UPLIFT FROM 10 TO 27 FT
   - 1,875 PSF SIDE FRICTION FOR UPLIFT BELOW 27 FT
3. DESIGN SOIL VALUES FOR SPREAD FOOTINGS:
   - 2,500 PSF ALLOWABLE NET SOIL BEARING IN MEDIUM DENSE SAND
   - SLIDING COEFFICIENT (CSEN) = 0.35
   - 250 PSF PASSIVE PRESSURE
4. LATERAL DESIGN SOIL PRESSURE FOR CANTILEVERED RETAINING WALLS IS 88 PCF EQUIVALENT HYDROSTATIC PRESSURE. AN ADDITIONAL SURFACE SURCHARGE OF 100 PSF HAS BEEN USED.
5. PROVIDE CRACK CONTROL JOINTS IN SLABS-ON-GRADE AS INDICATED BY THE SPECIFICATIONS.
6. DO NOT ALLOW SURFACE WATER TO ACCUMULATE AND/OR POND IN EXCAVATIONS. TEMPORARY DEWATERING SYSTEM TO BE USED DURING CONSTRUCTION WILL BE DESIGNED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT AND THE REQUIREMENTS OF THE GOVERNING BUILDING CODE.

MISCELLANEOUS

1. THE DETAILS SHOWN ON THE S1 SERIES SHEETS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DO NOT SCALE THE DRAWINGS.
3. PRINCIPAL OPENINGS, CURBS, AND SLAB DEPRESSIONS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS, OTHER OPENINGS, AND SLAB DEPRESSIONS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, CURBS, AND SLAB DEPRESSIONS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF OPENINGS SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
4. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS TO CONFIRM ALL REQUIREMENTS OF THE WORK, REPORT ANY CONFLICT/DISCREPANCY BETWEEN THE DISCIPLINES TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS.
5. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
6. PROVIDE CHAMFERS AS SPECIFIED AND/OR DETAILED ON THE ARCHITECTURAL DRAWINGS. CHAMFERS HAVE NOT BEEN SHOWN ON THE STRUCTURAL DRAWINGS.
7. SUBSTITUTIONS ARE CONSIDERED TO BE CHANGE ORDERS AND MUST BE APPROVED PRIOR TO FABRICATION OR USE.

INTERFACE WITH EXISTING STRUCTURE

1. CONNECTIONS AND ADDITIONS TO EXISTING STRUCTURE ARE BASED ON ORIGINAL STRUCTURAL DRAWINGS BY THE O'BRIEN PARTNERSHIP DATED AUGUST 28, 1995.
2. NOT ALL ORIGINAL STRUCTURAL DRAWINGS FOR THE EXISTING STRUCTURE ARE AVAILABLE. CONNECTIONS AND ADDITIONS TO THE EXISTING STRUCTURE ARE BASED UPON ASSUMPTIONS MADE BY THE ENGINEER OF RECORD.
3. BEFORE FABRICATION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS. THE ENGINEER SHALL BE NOTIFIED AND ALLOWED TO OBSERVE THE AS-BUILT STRUCTURE TO MODIFY DESIGN AS REQUIRED.
4. AFTER DEMOLITION AND CONTRACTOR SURVEY WORK HAS BEEN COMPLETED, THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS. DEMOLITION SHALL BE DONE PRIOR TO FABRICATION OF ANY STRUCTURAL ELEMENTS. THE STRUCTURAL ENGINEER SHOULD BE NOTIFIED AND ALLOWED TO OBSERVE THE AS BUILT CONDITIONS OF EXISTING STRUCTURE TO DETERMINE IF ASSUMPTIONS REGARDING THE INTERFACE AT THE EXISTING STRUCTURE WERE CORRECT. MODIFICATIONS, IF REQUIRED, WILL BE MADE AT THAT TIME.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND MAINTAINING THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE AT THE INTERFACE CONNECTIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL SHORING/BRACING AS REQUIRED TO PROTECT THE EXISTING STRUCTURE.

REMOVAL/DEMOLITION:

1. DESIGN ASSUMPTIONS FOR EXISTING BUILDING MODIFICATIONS ARE BASED ON ORIGINAL STRUCTURAL DRAWINGS BY THE O'BRIEN PARTNERSHIP DATED AUGUST 28, 1995. FIELD VERIFY EXISTING STRUCTURE PRIOR TO REMOVAL, INCLUDING BUT NOT LIMITED TO, BEAM DEPTHS, BEAM WIDTHS, SLAB THICKNESS, GRID LOCATIONS, FLOOR TO FLOOR, HEIGHTS, REINFORCEMENT, ETC. CRITICAL REINFORCEMENT THAT MUST BE VERIFIED PRIOR TO MODIFICATIONS HAS BEEN INDICATED IN THE DETAILS.
2. DO NOT CUT, DEMOLISH, OR PARTIALLY REMOVE STRUCTURAL ELEMENTS IN A MANNER THAT WOULD REDUCE THE LOAD CARRYING CAPACITY OR INCREASE EXISTING STRUCTURE DEFLECTIONS, EXCEPT WHERE CUTS ARE INDICATED BY THESE PLANS. USE METHODS THAT WILL NOT DAMAGE ELEMENTS RETAINED OR IN ADJOINING CONSTRUCTION (TO ANY SIDE, ABOVE, OR BELOW).
3. OVER CUT OF ANY OPENINGS OR CUT LINES INDICATED ON THE PLANS IS NOT ALLOWED. STEPS SHALL BE TAKEN AT THE INSIDE CORNERS OF ANY CUT LINES IN CONCRETE TO PERMIT CUTTING WITHOUT THE NEED TO OVER RUN THE SAW DUE TO BLADE RADIUS. RECOMMEND CORE DRILLING AT INSIDE CORNERS WITH 6" MIN CORE PRIOR TO CUTTING TO AVOID SAW OVERRUN.
4. DO NOT ALLOW ANY REMOVED STRUCTURE OR CONCRETE DEMOLITION TO FALL ONTO LOWER LEVELS DURING SAW CUT AND REMOVAL PROCESS. PLANS SHALL BE MADE FOR CONTROLLED REMOVAL OF HEAVY ELEMENTS.
5. AREA TO BE REMOVED SHALL HAVE SCAFFOLDING, SUITABLE DECKING, & SHORING TO UNDERSIDE SOFFIT FOR SUPPORT OF REMOVED PIECES.
6. DO NOT CUT, DEMOLISH, OR PARTIALLY REMOVE EXPOSED SURFACES IN A MANNER THAT WOULD NEGATIVELY AFFECT THE AESTHETIC QUALITIES OF THE STRUCTURE IN AREAS OUTSIDE THE REMOVAL LOCATION.
7. IDENTIFY ANY EXISTING BUILDING SYSTEMS THAT MAY NEED TO BE MOVED TO ACCOMMODATE THE MODIFICATIONS TO THE STRUCTURE. AVOID CUTTING EXISTING PIPE, CONDUIT, OR DUCT WORK SERVING THE BUILDING UNTIL PROVISIONS HAVE BEEN MADE TO BYPASS THE SYSTEMS APPROPRIATELY.
8. PROTECT NEW AND EXISTING CONSTRUCTION TO PREVENT DAMAGE. EXISTING BUILDING OCCUPANCY AND ACTIVITY SHALL NOT BE DISTURBED BEYOND AREAS INDICATED BY DEMOLITION ACTIVITIES.
9. SUBMIT STRUCTURAL DEMOLITION PLAN FOR REVIEW. INDICATE CUT LINES AND GENERAL SEQUENCE OF REMOVAL PROCESS.
10. PROVIDE A SIGNED AND SEALED LETTER FROM AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT CERTIFYING THAT ANY SCAFFOLDING, DECKING, OR SHORING USED IN THE REMOVAL PROCESS COMPLIES WITH THE BUILDING CODE, ACI 301 AND 318, AND IS IN KEEPING WITH GENERALLY ACCEPTED ENGINEERING PRACTICE. ENGINEER SHALL DESIGN THE SYSTEM TO SUPPORT THE NECESSARY WEIGHT OF EXISTING CONCRETE MEMBERS AS THEY ARE REMOVED. THE SYSTEM SHALL SUFFICIENTLY DISTRIBUTE THE LOAD TO THE REMAINING EXISTING FLOOR(S). SUBMIT LETTER PRIOR TO REMOVAL OF CONCRETE REQUIRING SUPPORT.
11. CONTRACTOR TO REVIEW ALL EXISTING UNDERGROUND UTILITIES PRIOR TO SUBMISSION OF FOUNDATION SHOP DRAWINGS. INCLUDING FIELD VERIFICATION WITH 811. NOTIFY ARCHITECT, MEP, & EOR OF CONFLICTS.

CORING THROUGH EXISTING STRUCTURE:

1. VERIFY CORING LOCATIONS OCCUR IN THE EXISTING SLABS ONLY. CORES CANNOT OCCUR IN EXISTING JOIST, BEAMS, WALLS, OR GIRDERS UNLESS NOTED ON THE STRUCTURAL CONTRACT DOCUMENTS OR APPROVED BY THE SEOR IN WRITING PRIOR TO CORING.
2. FIELD VERIFY EXTENTS OF EXISTING STRUCTURE PRIOR TO CORING.
3. GROUPS OF CORES SHALL BE SPACED A MINIMUM OF 3" CLEAR BETWEEN CORES.
4. CONTRACTOR SHALL NOT RECONFIGURE PLUMBING/CORE LAYOUT WITHOUT PRIOR APPROVAL BY THE ARCHITECT AND RESUBMITTAL FOR APPROVAL OF NEW CORE LOCATIONS.
5. DO NOT ALLOW ANY REMOVED CONCRETE TO FALL DURING CORING PROCESS.
6. PROTECT EXISTING CONSTRUCTION TO PREVENT DAMAGE. EXISTING BUILDING OCCUPANCY AND ACTIVITY SHALL NOT BE DISTURBED OR INTERRUPTED DUE TO CORING OPERATIONS.
7. AVOID CUTTING EXISTING PIPE, CONDUIT OR DUCTWORK SERVING THE BUILDING, BUT SCHEDULED TO BE REMOVED OR RELOCATED UNTIL PROVISIONS HAVE BEEN MADE TO BYPASS THEM.
8. SUBMIT CORING LOCATION PLAN FOR REVIEW. INDICATE CORE SIZE LOCATIONS RELATIVE TO FIELD VERIFIED EXISTING BUILDING STRUCTURAL AND SIZE OF EACH CORE.

PRECAST CONCRETE

1. CLASSES OF PRECAST CONCRETE SHALL BE AS FOLLOWS:
   - NWC DENOTES NORMAL WEIGHT CONC WITH A MAX DRY DENSITY = 150 PCF
2. IN COMPUTING CONCRETE TOPPING WEIGHTS AS SUPERIMPOSED LOADING ON PRECAST UNITS, PROVIDE FOR AN ADDITIONAL 1/2" THICKNESS OF CONCRETE BEYOND THAT SHOWN ON DRAWINGS. ALL CONCRETE TOPPING IS NORMAL WEIGHT ASSUMED TO WEIGH 150 PCF.
3. ALL PRECAST MEMBERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL IMPOSED LOADS INCLUDING WALLS, SIDEWALLS, CURBS, ETC. LIVE LOADS MAY BE REDUCED IN ACCORDANCE WITH THE BUILDING CODE, EXCEPT THAT EACH STEM OF DOUBLE TEE SHALL BE TREATED AS AN INDIVIDUAL BEAM FOR PURPOSE OF LIVE LOAD REDUCTION CALCULATIONS, EXCEPT THAT NO DOUBLE TEE SHALL BE PROPORTIONED FOR A LIVE LOAD OF LESS THAN 100 PSF.
   - A. MAXIMUM EXTREME FIBER STRESS IN TENSION SHALL REMAIN WITHIN ACI 318 DEFINED CLASS T LIMITS.
   - B. DOUBLE TEES SHALL BE DESIGNED TO CONTROL LONG TERM DEFLECTION, CAMBER, AND DIFFERENTIAL CAMBER. DOUBLE TEES SHALL HAVE LONG TERM UPWARD DEFLECTED SHAPE.
   - C. WHERE APPLICABLE CONNECTIONS TO DOUBLE TEES TO WALLS SHALL ACCOUNT FOR CAMBER.
4. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL PLATES, ANCHORS, BLOCKOUTS, ETC., TO BE PROVIDED. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED OF ANY FIELD CONDITIONS THAT REQUIRE MODIFICATIONS TO DETAILS. MODIFICATIONS SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLING STRUCTURAL MEMBERS.
5. TOP SURFACES OF CONCRETE WHICH SUPPORT PRECAST CONCRETE MEMBERS SHALL RECEIVE A STRAIGHT, TRUE AND LEVEL, SMOOTH TROWELED FINISH.
6. POWER DRIVEN ANCHORS SHALL NOT BE USED ON DOUBLE TEE STEMS. DRILLING OF STEMS IN THE FIELD FOR EXPANSION ANCHORS, ETC. MAY BE DONE ONLY WITH THE PRIOR APPROVAL OF ARCHITECT AND PRECAST SPECIALTY ENGINEER. THIS INCLUDES MECHANICAL SUSPENDED SYSTEMS, LIGHTING & GOALS.
7. ALL HORIZONTAL PRECAST JOINTS AT LOAD-BEARING PANELS AND COLUMN BASE PLATES SHALL BE FULLY GROUTED USING A NON-SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 7500 PSI AT 28 DAYS
8. CONTRACTOR SHALL PROVIDE 5/8" DEEP TOOLED CONTROL JOINTS IN THE TOPPING SLAB AND CURBS FOR EACH LEVEL AT EACH JOINT BETWEEN ADJOINING PRECAST DOUBLE TEES, BEAMS, AND WALLS. ALL JOINTS SHALL BE CLEANED AND FILLED WITH AN APPROVED LOAD SUPPORTING FILLER/SEALANT.

STRUCTURAL STEEL

STEEL:

1. STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL BE ASTM A36 UNO ON DRAWINGS.
2. GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123.

BOLTING:

1. CONNECTION BOLTS SHALL CONFORM TO ASTM A325. USE BEARING TYPE BOLTS WITH THREAD ALLOWED ACROSS THE SHEAR PLANE (TYPE N) AT TYPICAL BEAM SHEAR CONNECTIONS, UNO. USE TYPE "SC" BOLTS WITH EITHER DIRECT TENSION INDICATOR OR LOAD INDICATOR WASHERS AT ALL BOLTED SLIP CRITICAL CONNECTIONS.

CAST-IN-PLACE CONCRETE & REINFORCEMENT

CONCRETE:

1. CLASSES OF CONCRETE SHALL BE AS SHOWN IN TABLE C1:
   - NWC DENOTES NORMAL WEIGHT CONC WITH A MAX DRY DENSITY = 150 PCF
2. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE PER TABLE C1 AND THE ACI 318 FOR CONDITIONS NOT NOTED.
3. HORIZONTAL CONSTRUCTION JOINTS SHALL BE PERMITTED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
4. TOP SURFACES OF CONCRETE BEAMS TO SUPPORT PRECAST CONCRETE MEMBERS NOT PLACED IN THE FORMS SHALL RECEIVE A TROWELED SMOOTH FINISH AND SHALL BE STRAIGHT, TRUE AND LEVEL.
5. GRADE BEAMS SHALL BE FORMED ON SIDES.
6. HEADED STUDS AND DEFORMED BAR ANCHORS USED IN FABRICATION OF EMBEDDED ASSEMBLIES SHALL BE WELDED TO THOSE ASSEMBLIES USING A FULL FUSION PROCESS.

REINFORCEMENT:

1. CONCRETE REINFORCING BARS SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60, EXCEPT AS NOTED. REINFORCEMENT REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706 OR DBA PRODUCT FOR WELDED USE, UNO.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
3. HEADED STUDS AND DEFORMED BAR ANCHORS USED IN FABRICATION OF EMBEDDED ASSEMBLIES SHALL BE WELDED TO THOSE ASSEMBLIES USING A FULL FUSION PROCESS.
4. REINFORCING BARS MAY BE SPLICED ONLY AS SHOWN ON THE DRAWINGS EXCEPT THAT REINFORCING DESIGNATED AS "CONTINUOUS" SHALL HAVE A CLASS "B" LAP SPLICE IN ACCORDANCE WITH ACI 318. LAP SPLICES OF CONTINUOUS REINFORCING SHALL BE MADE OVER SUPPORTS FOR BOTTOM BARS AND FOR INTERMEDIATE BARS AND AT MIDSPAN FOR TOP BARS. AT EXTERIOR SUPPORTS, TOP AND BOTTOM BARS SHALL BE HOOKED AND INTERMEDIATE BARS SHALL EXTEND TO WITHIN 2" OF EXTERIOR FACE.
5. HORIZONTAL WALL AND CONTINUOUS FOOTING REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL CORNER BAR PLACING DETAILS.
6. LAPS IN WELDED WIRE FABRIC SHALL BE TWO MESH SPLICES.
7. THE GENERAL CONTRACTOR SHALL INCLUDE AND STATE IN THE BASE BID THE IN-PLACE COST OF 4 TONS OF REINFORCING STEEL IN ADDITION TO ALL OTHER STEEL SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS. THIS EXTRA STEEL SHALL BE INSTALLED IN STRUCTURE IN SUCH SIZES AND FORM AS THE STRUCTURAL ENGINEER MAY DIRECT, WITHOUT ANY ADDITIONAL COST TO THE OWNER. UNUSED PORTIONS SHALL BE A CREDIT TO THE OWNER.

TABLE C1

CAST-IN-PLACE CONCRETE

LOCATION	28 DAY f'c (psi)	CONCRETE TYPE	MAX NOM COARSE AGG SIZE	EXPOSURE CAT
ALL CONC, UNO	4,000	NWC	1"	F0
SLABS-ON-GRADE	4,000	NWC	1 1/2"	F0
WALLS	4,000	NWC	1 1/2"	F0
GRADE BEAMS	4,000	NWC	3/4"	F0

CONCRETE PROTECTION

LOCATION	CLEAR COVER
CONCRETE CAST AGAINST SOIL	3"
FORMED CONCRETE BELOW GRADE	2"
BELOW GRADE WATERPROOFED WALLS	1 1/2" BACKFILLED SIDE 1" NON-BACKFILLED SIDE
GRADE BEAMS	2" TOP AND SIDES 3" BOTTOM
INTERIOR SLAB-ON-GRADE	1 1/2" TOP

PRECAST CONCRETE

LOCATION	28 DAY f'c (psi)	CONCRETE TYPE	MAX. NOM. COARSE AGG. SIZE
PRECAST, WALLS	4,000	NWC	PER MFR
PRECAST DOUBLE TEES	4,000	NWC	PER MFR

TABLE C2

REINFORCEMENT LAP SCHEDULE

f'c (psi)	SPLICE CLASS	BAR SIZE — TYPICAL BARS								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
4000	CLASS A 1.0 Ld	14	19	24	28	42	47	54	60	67
	CLASS B 1.3 Ld	18	25	31	37	54	62	70	78	87

TABLE C2 - CONT.

REINFORCEMENT LAP SCHEDULE

f'c (psi)	SPLICE CLASS	TOP BARS (SEE NOTE 2)								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
4000	CLASS A 1.0 Ld	18	25	31	37	54	62	70	78	87
	CLASS B 1.3 Ld	24	32	40	48	70	80	90	102	113

NOTES:

1. TENSION DEVELOPMENT LENGTH = Ld. LENGTHS LISTED IN TABLE ARE IN INCHES.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW.
3. USE THE ABOVE DEVELOPMENT LENGTH AND LAP SPLICE TABLE FOR BEAMS, WALLS, ETC. WHEN THE CLEAR SPACE BETWEEN BARS IS GREATER THAN OR EQUAL TO 2 BAR DIAMETERS AND CLEAR COVER IS NOT LESS THAN THE GREATER OF 1 BAR DIAMETER OR 1".
4. WHEN THE CLEAR SPACE BETWEEN BARS IS LESS THAN 2 BAR DIAMETERS, MULTIPLY DEVELOPMENT AND SPLICE LENGTHS LISTED IN TABLE BY 1.5 CLEAR SPACE BETWEEN BARS SHALL ALWAYS BE AT LEAST 1 BAR DIAMETER.
5. PROVIDE LAP SPLICE LENGTH BASED ON THE LARGER BAR BEING LAPPED WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED.

TABLE C3

SLAB-ON-GRADE AND COMPOSITE SLAB REINF LAP SCHEDULE

f'c (psi)	SPLICE CLASS	BAR SIZE			
		#3	#4	#5	#6
4000	CLASS A 1.0 Ld	12	12	17	23
	CLASS B 1.3 Ld	12	15	22	30

NOTES:

1. TENSION DEVELOPMENT LENGTH = Ld. LENGTHS LISTED IN TABLE ARE IN INCHES.
2. USE THE ABOVE DEVELOPMENT LENGTH AND LAP SPLICE TABLE FOR SLAB ON GRADE, COMPOSITE SLABS, AND TOPPING SLABS. THIS TABLE IS NOT TO BE USED FOR SLAB AND BEAM SYSTEMS, PAN JOIST SLABS, NOR FLAT SLABS.
3. SLABS MUST BE LESS THAN 12" THICK AND REINFORCING MUST BE SPACED AT LEAST 6" OC.
4. PROVIDE LAP SPLICE LENGTH BASED ON THE SMALLER BAR BEING LAPPED WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED.
5. FOR LARGER REINFORCEMENT, SEE DEVELOPMENT LENGTHS PROVIDED IN THE REINFORCEMENT LAP SCHEDULE TABLE.
6. FOR LIGHTWEIGHT CONCRETE, MULTIPLY DEVELOPMENT AND SPLICE LENGTHS BY 1.33.

TABLE D1 (STORM SHELTER)

LIVE AND DEAD LOADING

LIVE LOADS	
STORM SHELTER FLOOR	100 PSF UNREDUCIBLE
STORM SHELTER ROOF	100 PSF UNREDUCIBLE
STORM SHELTER LAY DOWN LOAD ROOF ✳	
SUPERIMPOSED DEAD LOADS	
MECHANICAL, ELECTRICAL, AND CEILING	10 PSF
FINISHES WHERE SHOWN ON ARCHITECTURAL	AS REQUIRED

SNOW LOADING

GROUND LOADING (Pg)	5 PSF
FLAT ROOF SNOW LOAD (Pf)	6 PSF
SNOW EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
SNOW IMPORTANCE FACTOR (Ie)	1.2

WIND DESIGN CRITERIA

STORM SHELTER DESIGN CRITERIA THE STORM SHELTER IS DESIGNED PER AND CONFORMS WITH THE PROVISIONS OF THE ICC/NSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS, 2020.	
RISK CATEGORY	IV
IMPORTANCE FACTOR	1.0
ULTIMATE WIND SPEED (MPH)	250
EXPOSURE CATEGORY	C
DIRECTIONALITY FACTOR (Kd)	1.0
TOPOGRAPHIC EFFECTS FACTOR (Kzt)	1.0
INTERNAL PRESSURE COEFFICIENT (GCpi)	+/- 0.55
DESIGN PRESSURES FOR COMPONENTS AND CLADDING	PER ASCE 7

SEISMIC DESIGN CRITERIA

RISK CATEGORY	III
IMPORTANCE FACTOR	1.25
SITE CLASS	C
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
Ss	0.093
S1	0.052
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
SDs	0.081
SD1	0.052
DESIGN CATEGORY	A
DESIGN BASE SHEAR (KIPS)	35
RESPONSE COEFFICIENT - Cs	N/A SDC A
RESPONSE MODIFICATION FACTOR - R	N/A SDC A
BASIC SEISMIC FORCE RESISTING SYSTEM	PRECAST SHEAR WALLS NOT SPECIALLY DESIGNED FOR SEISMIC
ANALYSIS PROCEDURE	ASCE 7 SECTION 11.7

✳NOTE: LAY DOWN LOAD IS NOT APPLIED SIMULTANEOUS TO 100 PSF LIVE LOAD AND HAS A LOAD AMPLIFICATION FACTOR OF 2.0 IN STRENGTH/ULTIMATE CALCULATIONS

STORM SHELTER NOTES

1. ANY PENETRATIONS IN THE EXTERIOR WALLS OR ROOF LARGER THAN 3 1/2" SQUARE OR 2 1/2" IN DIAMETER SHALL BE PROTECTED BY A TESTED AND LISTED ASSEMBLY MEETING THE REQUIREMENTS OF ICC 500.
2. ALL RTU OR ROOF DECK PENETRATIONS SHALL BE BAFFLED PER EQUIPMENT SUPPLIER CONFORMING TO ICC 500 OR PER
3. ALL COMPONENTS OF THE EXTERIOR OF THE BUILDING SHALL CONFORM TO THE FOLLOWING 15 POUND 2X4 MISSILE IMPACT CRITERIA:
   A. HORIZONTAL SURFACES: 67 MPH IMPACT
   B. VERTICAL SURFACES: 100 MPH IMPACT
4. ALL STRUCTURAL ELEMENTS HEREIN MEET OR EXCEED ICC 500 IMPACT CRITERIA AS TESTED BY TEXAS TECH UNIVERSITY DURING THEIR "DEBRIS IMPACT TESTING AND ANALYSIS THRESHOLD TESTING." WHICH IS PUBLICLY AVAILABLE AT : https://www.depts.ttu.edu/rwi/research/DebrisImpact/Reports/Final_Threshold_Report.pdf
5. COMPONENTS AND CLADDING PRESSURES ARE SUMMARIZED IN THE TABLE BELOW.
   A. REF ASCE 7-16 FOR DEFINITION OF ZONE EXTENTS.
   B. POSITIVE PRESSURES ARE THOSE THAT ACT TOWARD THE BUILDING. NEGATIVE FORCES ARE THOSE THAT ACT AWAY FROM THE BUILDING.
6. THE STORM SHELTER IS DESIGNED AS A COMMUNITY TORNADO SHELTER TO BE USED BY STUDENTS AND SITE FACULTY.
7. ADJACENT BUILDING COLLAPSE LOADING OF 50PSF IN ADDITION TO WIND LOADING HAS BEEN ACCOUNTED FOR.
8. THE STORM SHELTER WILL NOT BE CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO FLOODING.
9. DESIGN OF THIS SHELTER CONFORMS TO THE PROVISIONS OF THE ICC 500 "STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS."
10. THE PROJECT WILL NOT BE CONSTRUCTED IN A FLOOD PLAIN.
11

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION - FROM AISC STEEL CONSTRUCTION MANUAL - CHAPTER N - QUALITY CONTROL AND QUALITY ASSURANCE (AISC 360-10)

TABLE N5.4-1 - INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASK PRIOR TO WELDING	QUALITY CONTROL	QUALITY ASSURANCE
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WPS AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM[a]	O	O
FIT - UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	P	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT - UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS OF ROOT CLEANLINESS (CONDITION OF STEEL SURFACE) TACKING (TACK WELD QUALITY AND LOCATION)	O	O
CHECK WELDING EQUIPMENT	O	---

[a] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2 - INSPECTION TASKS DURING WELDING

INSPECTION TASK DURING WELDING	QUALITY CONTROL	QUALITY ASSURANCE
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX) • PROPER POSITION (F, V, H, OH)	O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P

TABLE N5.4-3 - INSPECTION TASKS AFTER WELDING

INSPECTION TASK DURING WELDING	QUALITY CONTROL	QUALITY ASSURANCE
WELDS CLEANED	O	O
SIZE, LENGTH, AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P
ARC STRIKES	P	P
k-AREA [a]	P	P
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [b]	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OF REJECTION OF WELDED JOINT OR MEMBER	P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O

[a] 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.

[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1C) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1D) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS

TABLE N5.6-1 - INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O

TABLE N5.6-2 - INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES	O	O

TABLE N5.6-3 - INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

NOTES:
1. THESES TABLES WERE TAKEN FROM THE 14TH EDITION AISC STEEL CONSTRUCTION MANUAL - CHAPTER N - QUALITY CONTROL AND QUALITY ASSURANCE
2. P USED IN THE ABOVE TABLE STANDS FOR "PERFORM THESE TASKS FOR EACH WELDED CONNECTION, BOLTED CONNECTION, OR STEEL ELEMENT"
3. O USED IN THE ABOVE TABLE STANDS FOR "OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS"

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

TABLE 1705.8
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD*	IBC REFERENCE
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. REINFORCING BAR WELDING a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706:	-	X		
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	X	AWS D1.4 ACI 318: 26.6.4	-
c. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. [a] a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X		
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	-
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	-
10. INSPECT INSTALLATION TOLERENCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X	ACI 318: 26.13.1.3	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2 (b)	-

FOR SI: 1 INCH = 25.4 mm.
a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

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WIMBISH WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
MARTIN B. DOERKSEN
116848
LICENSED
PROFESSIONAL ENGINEER
3/30/26

Registered Engineering Firm: HKS Inc.
Firm Registration Number: F-2417

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

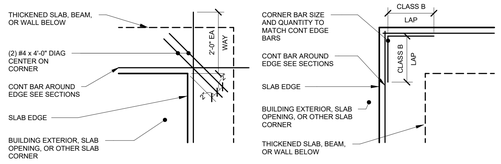
ISSUE
BID SET

SHEET TITLE
SPECIAL INSPECTION TABLES 2021

SHEET NO.
S1.02

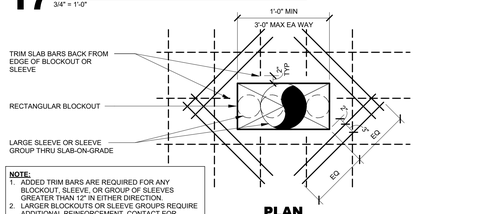
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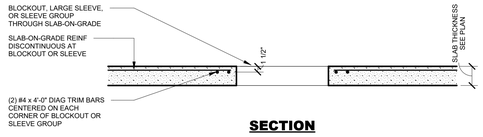
INSIDE CORNER **OUTSIDE CORNER**

17 SLAB-ON-GRADE CORNER DETAILS
3/4" = 1'-0"



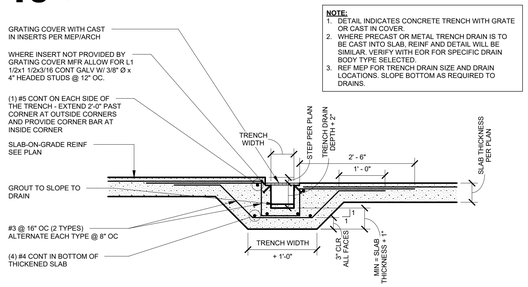
NOTE:
1. ADDED TRIM BARS ARE REQUIRED FOR ANY BLOCKOUT, SLEEVE, OR GROUP OF SLEEVES GREATER THAN 12" IN EITHER DIRECTION.
2. LARGER BLOCKOUTS OR SLEEVE GROUPS REQUIRE ADDITIONAL REINFORCEMENT. CONTACT EOR.
3. TREAT MULTIPLE SMALL BLOCKOUTS OR SLEEVES WITHIN ANY 3'-0" AREA AS A SLEEVE GROUP.

PLAN



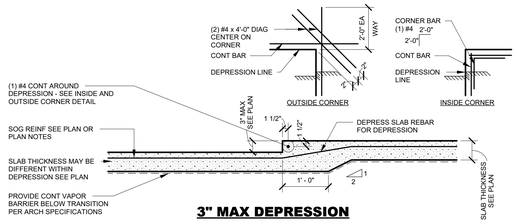
SECTION

16 SLAB-ON-GRADE BLOCK OUT OR GROUP OF SLEEVES
3/4" = 1'-0"



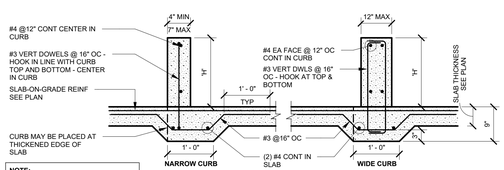
NOTE:
1. DETAIL INDICATES CONCRETE TRENCH WITH GRATE OR CAST IN COVER.
2. WHERE PRECAST OR METAL TRENCH DRAIN IS TO BE CAST INTO SLAB, REINF AND DETAIL WILL BE SIMILAR. VERIFY WITH EOR FOR SPECIFIC DRAIN BODY TYPE SELECTED.
3. REF MEP FOR TRENCH DRAIN SIZE AND DRAIN LOCATIONS. SLOPE BOTTOM AS REQUIRED TO DRAINS.

15 SLAB-ON-GRADE FLOOR TRENCH DETAIL
3/4" = 1'-0"



3" MAX DEPRESSION

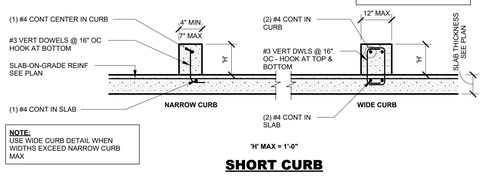
14 SLAB-ON-GRADE DEPRESSION DETAILS
3/4" = 1'-0"



NOTE:
USE WIDE CURB DETAIL WHEN WIDTHS EXCEED NARROW CURB MAX

TALL CURB

WHERE "H" IS LESS THAN 4", CURB SHALL BE CAST MONOLITHICALLY WITH FLOOR.

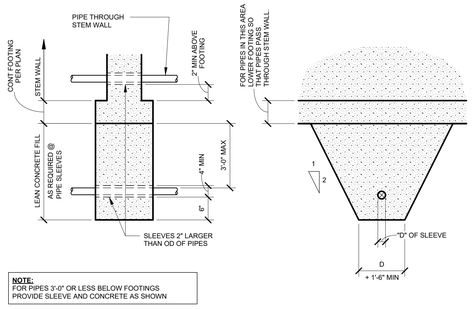


NOTE:
USE WIDE CURB DETAIL WHEN WIDTHS EXCEED NARROW CURB MAX

SHORT CURB

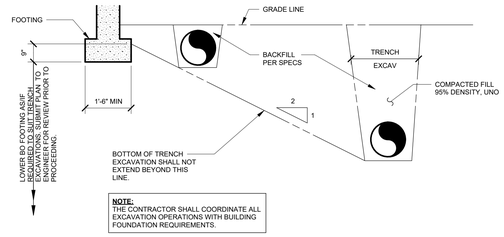
13 SLAB-ON-GRADE CONCRETE CURB DETAIL
NO SCALE

NOTE:
PLACE CONCRETE AROUND SLEEVES PRIOR TO PLACING FOOTING.



NOTE:
FOR PIPES 3'-0" OR LESS BELOW FOOTINGS PROVIDE SLEEVE AND CONCRETE AS SHOWN

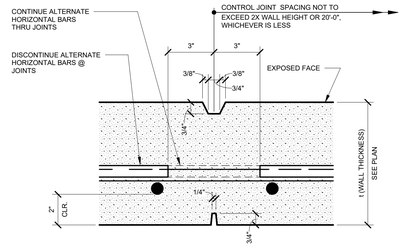
12 EXCAVATION PERPENDICULAR TO FOOTINGS
NO SCALE



NOTE:
THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION OPERATIONS WITH BUILDING FOUNDATION REQUIREMENTS.

11 EXCAVATION PARALLEL TO FOOTINGS
NO SCALE

CONSTRUCTION JOINT

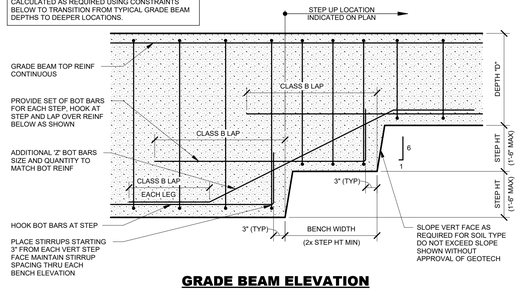


CONTROL JOINT

RETAINING WALL CONTROL / CONSTRUCTION JOINT DETAILS

10
NO SCALE

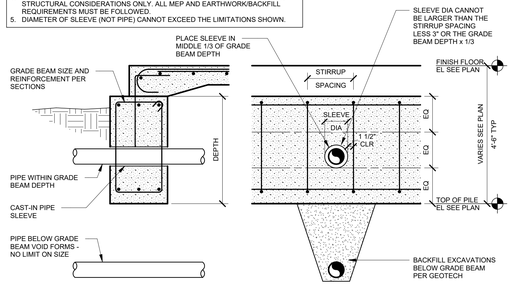
NOTE:
STEP QUANTITY AND BENCH ELEVATIONS SHALL BE CALCULATED AS REQUIRED USING CONSTRAINTS BELOW TO TRANSITION FROM TYPICAL GRADE BEAM DEPTHS TO DEEPER LOCATIONS.



GRADE BEAM ELEVATION

09 GRADE BEAM STEP ON GRADE DETAIL
NO SCALE

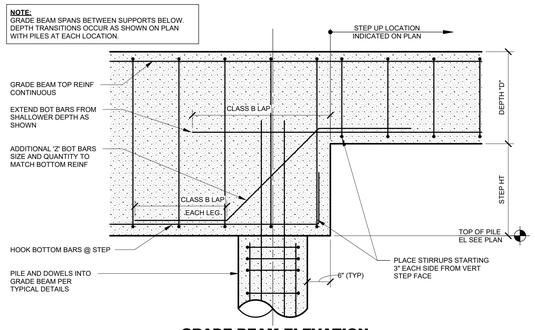
NOTE:
1. ALL LOCATIONS MUST RECEIVE APPROVAL FROM THE EOR PRIOR TO BEING PLACED. ADDITIONAL LIMITATIONS MAY APPLY.
2. EOR APPROVAL MAY REQUIRE ADDITIONAL STIRRUPS OR ADDED TOP AND BOTTOM BARS IN THE GRADE BEAM.
3. DO NOT LOCATE WITHIN 10' OF PILE SUPPORT.
4. DETAILS SHOW GENERAL PLACING CONSTRAINTS AND LOCATIONS BASED ON STRUCTURAL CONSIDERATIONS ONLY. ALL MEP AND EARTHWORK/BACKFILL REQUIREMENTS MUST BE FOLLOWED.
5. DIAMETER OF SLEEVE (NOT PIPE) CANNOT EXCEED THE LIMITATIONS SHOWN.



SECTION **ELEVATION**

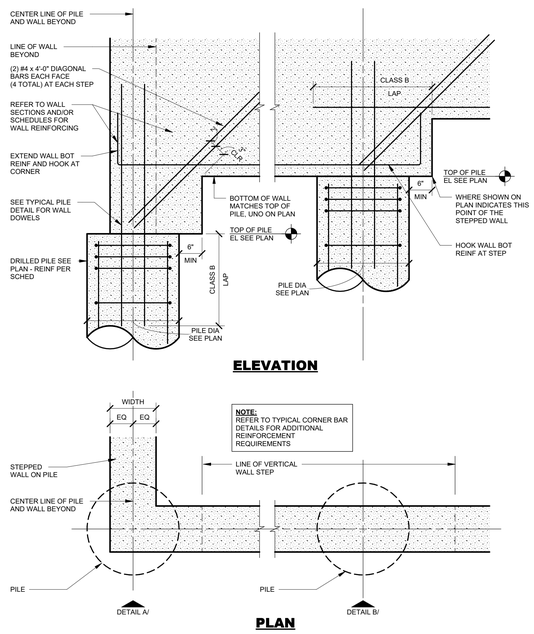
08 GRADE BEAM PIPE PENETRATIONS
NO SCALE

NOTE:
GRADE BEAM SPANS BETWEEN SUPPORTS BELOW. DEPTH TRANSITIONS OCCUR AS SHOWN ON PLAN WITH PILES AT EACH LOCATION.



GRADE BEAM ELEVATION

07 GRADE BEAM STEP WITH PILES DETAIL
NO SCALE

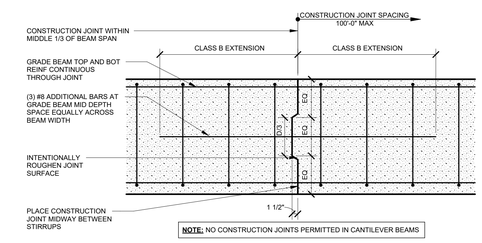


NOTE:
REFER TO TYPICAL CORNER BAR DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS

ELEVATION

PLAN

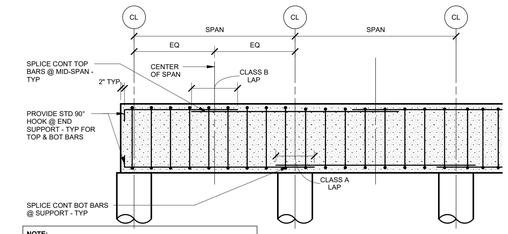
06 STEPPED WALL ON PILES DETAIL
NO SCALE



NOTE: NO CONSTRUCTION JOINTS PERMITTED IN CANTILEVER BEAMS

GRADE BEAM ELEVATION

05 GRADE BEAM CONSTRUCTION JOINT
NO SCALE



NOTE:
1. SPLICE CONT BOTTOM BARS @ SUPPORT (PILES) ONLY.
2. BOTTOM SPLICES SHALL BE CENTERED AT SUPPORTS, TOP SPLICES SHALL BE CENTERED MID-SPAN BETWEEN SUPPORTS.
3. SEE FOUNDATION SECTIONS FOR TOP AND BOTTOM REINF SIZE, STIRRUPS SIZE AND SPACING, ETC

ELEVATION

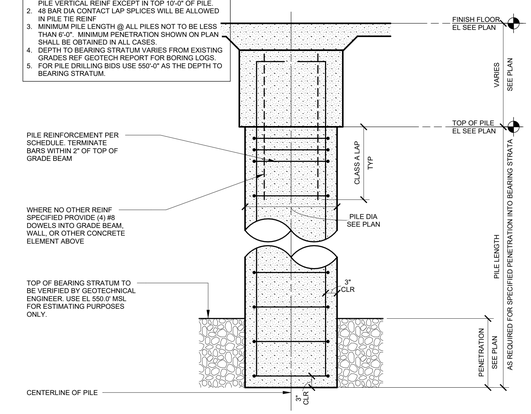
04 GRADE BEAM REINFORCING LAYOUT
NO SCALE

PILE SCHEDULE		
PILE DIA	TYPICAL PILE REINFORCING	
	VERTICAL REINFORCING	HORIZONTAL TIES
24"	(6) #6	(4) #3 @ 3" OC @ TOP, REMAINDER @ 12" OC
30"	(10) #7	(4) #3 @ 4" OC @ TOP, REMAINDER @ 12" OC

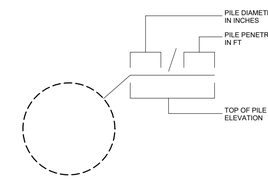
SCHEDULE NOTES
1. SEE TYPICAL PILE DETAIL FOR REINF CONFIGURATION

03 PILE REINFORCEMENT SCHEDULE
NO SCALE

DRILLED PILE NOTES:
1. CLASS B CONTACT LAP SPLICES WILL BE ALLOWED IN PILE VERTICAL REINF EXCEPT IN TOP 10'-0" OF PILE.
2. 48 BAR DIA CONTACT LAP SPLICES WILL BE ALLOWED IN PILE TIE REINF
3. MINIMUM PILE LENGTH @ ALL PILES NOT TO BE LESS THAN 6'-0". MINIMUM PENETRATION SHOWN ON PLAN SHALL BE OBTAINED IN ALL CASES.
4. DEPTH TO BEARING STRATUM VARIES FROM EXISTING GRADES REF GEOTECH REPORT FOR BORING LOGS.
5. FOR PILE DRILLING BIDS USE 550'-0" AS THE DEPTH TO BEARING STRATUM.



02 PILE DETAIL
NO SCALE



01 PILE DESIGNATION
NO SCALE

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SEAL & SIGNATURE

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LICENSED
PROFESSIONAL ENGINEER
3/9/26

Registered Engineering Firm: HKS Inc.
Firm Registration Number: F-2417

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04-27-2026

ISSUE
BID SET

SHEET TITLE
TYPICAL DETAILS - FOUNDATION PILE & GRADE BEAM

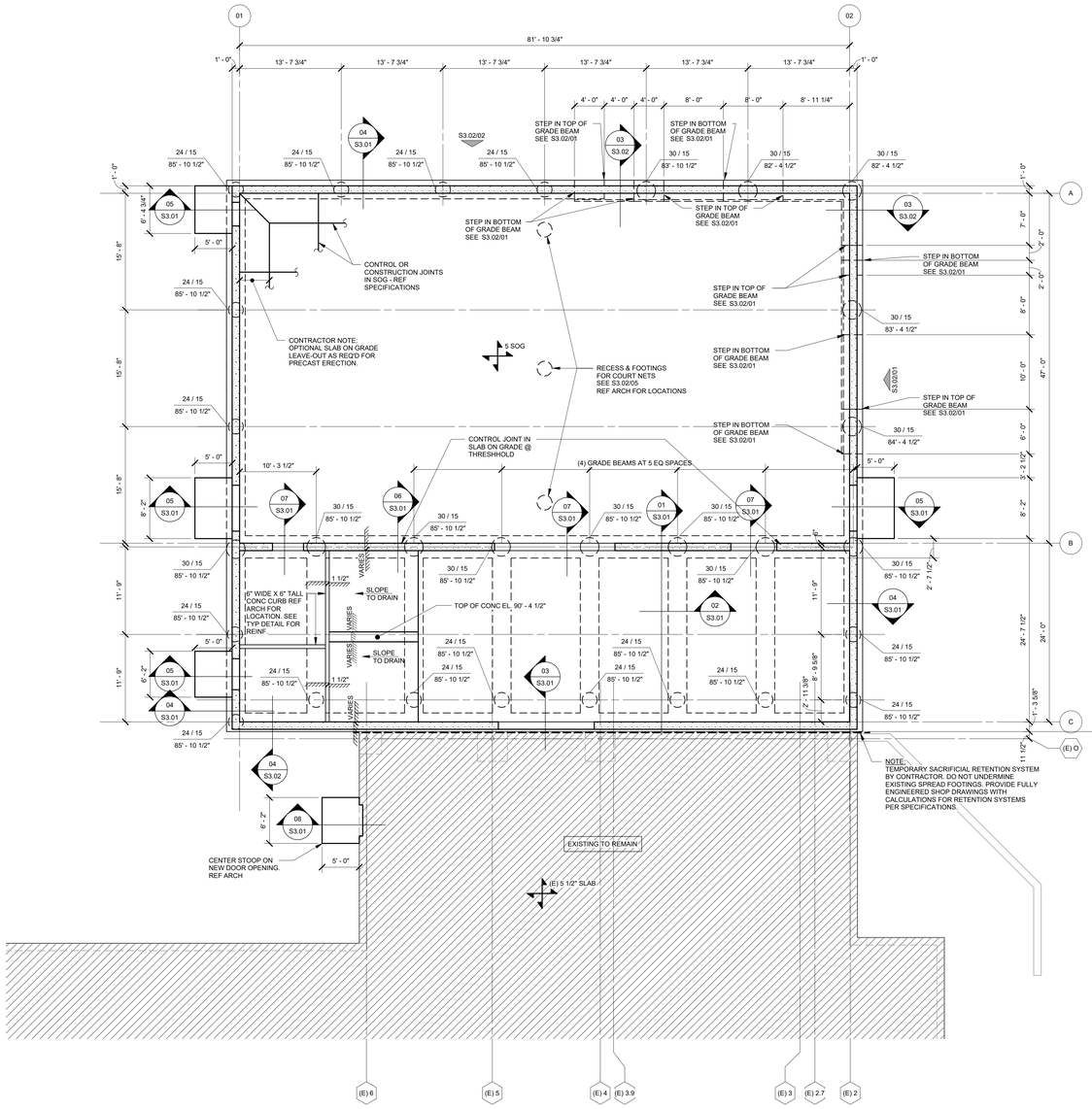
SHEET NO.
S1.03

PLOT DATE: 3/23/2026 10:08:23
TEMPLATE VERSION:

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PLAN NOTES:

1. REFERENCE THE FOLLOWING SHEET LOCATIONS:
   - S1 SERIES - GENERAL NOTES AND TYPICAL DETAILS
2. 5 SOG — INDICATES SLAB ON GRADE SHALL BE 5 " THICK NWC REINFORCED W/ #3 @ 12 " OC. EW OR EQUIVALENT DOSAGE OF FIBER REINFORCING PER PROJECT SPECIFICATIONS.
3. FINISH FLOOR = TOP OF SLAB, UNLESS SLAB IS RECESSED TO RECEIVE FLOORING MATERIALS. SEE PLAN FOR RECESS LOCATIONS AND RECESS DEPTHS.
4. VERIFY ALL SLAB OPENING LOCATIONS AND DIMENSIONS, SLAB DEPRESSION LOCATIONS AND DIMENSIONS, SIZE AND LOCATION OF CURBS WITH THE ARCHITECTURAL DRAWINGS. WHERE DEPRESSIONS ARE NOT DIMENSIONALLY LOCATED ON PLAN REFER TO ARCHITECTURAL DRAWINGS. CONTRACTOR TO VERIFY AND COORDINATE PRIOR TO INSTALLATION.
5. REFER TO MEP DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT SHOWN ON PLAN, CONTRACTOR TO VERIFY AND COORDINATE PRIOR TO INSTALLATION.
6. SEE SPECIFICATIONS AND TYPICAL DETAILS FOR CONTROL JOINT AND CONSTRUCTION JOINT REQUIREMENTS. ADDITIONAL CONTROL JOINTS AND CONSTRUCTION JOINTS SHOWN IN PLAN AS NEEDED.
7. FOUNDATIONS ARE BASED ON ASSUMED LOADS PROVIDED IN LOAD DIAGRAMS AND/OR COORDINATION WITH PRECASTER. DO NOT SUBMIT FOUNDATION SHOP DRAWINGS UNTIL PRECAST LOADS FROM DELEGATED ENGINEER ARE REVIEWED BY EOR TO BE CONFIRMED WITH FINAL LOADING PROVIDED BY PRECAST ENGINEER.
8. [ ] DENOTES PRECAST WALL BY SPECIALTY ENGINEER. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



01 LEVEL 01 - FOUNDATION PLAN - AREA D

1/8" = 1'-0"

FINISH FLOOR EL = 90'-4 1/2" (UNO)
= 585.04' (MSL) VERIFY W/ CIVIL

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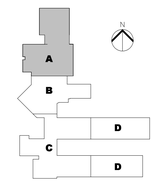
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SEAL & SIGNATURE

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KEY PLAN

REVISION

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SHEET TITLE
FOUNDATION PLAN

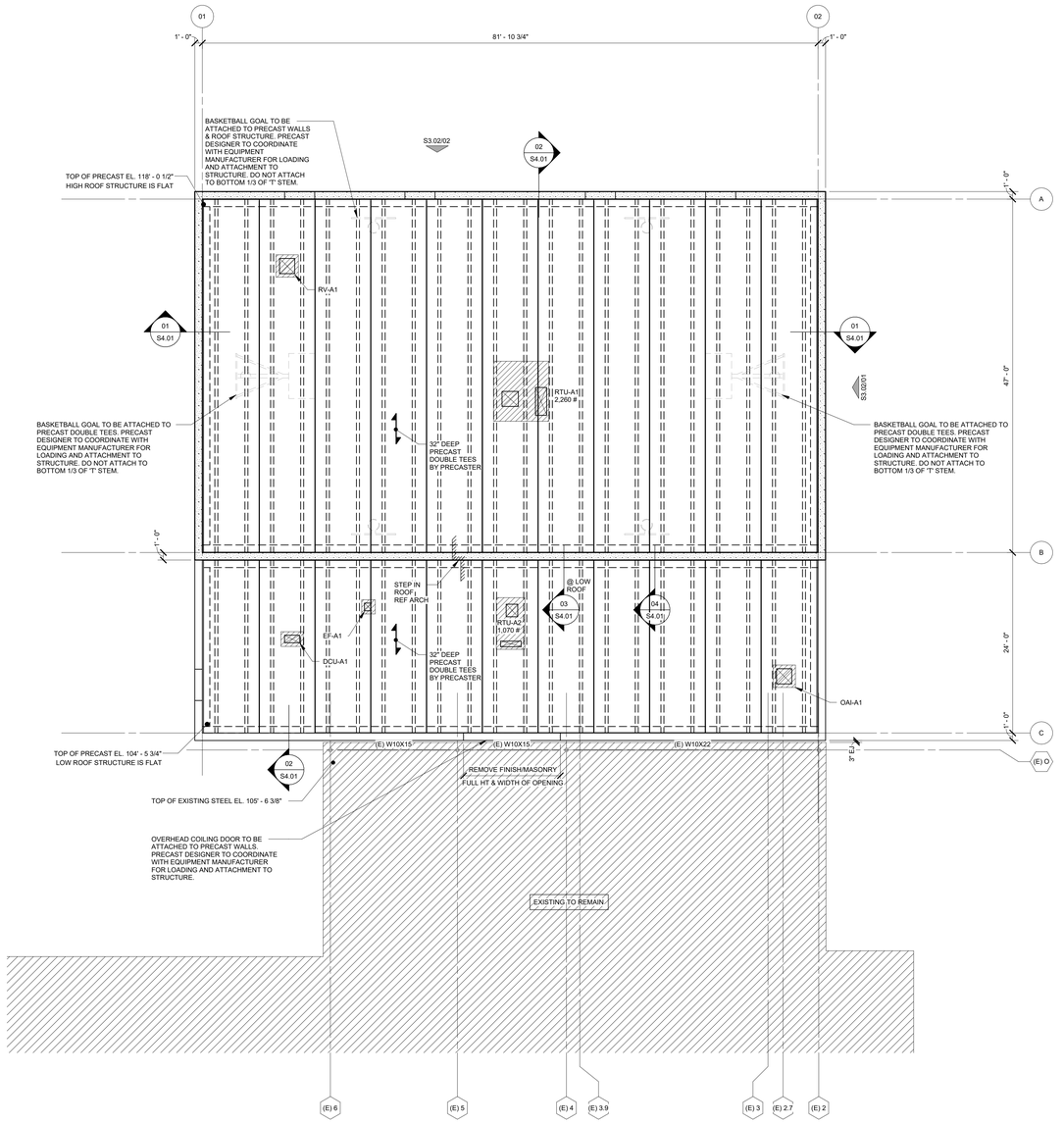
SHEET NO.
S2.01

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PLOT DATE: 3/23/2026 10:08:25
TEMPLATE VERSION:

PLAN NOTES:

1. REFERENCE THE FOLLOWING SHEET LOCATIONS:
   - S1 SERIES – GENERAL NOTES AND TYPICAL DETAILS
2. VERIFY ALL ROOF OPENING LOCATIONS AND DIMENSIONS, SLAB DEPRESSION LOCATIONS AND DIMENSIONS, SIZE AND LOCATION OF CURBS WITH THE ARCHITECTURAL DRAWINGS. CONTRACTOR TO VERIFY AND COORDINATE PRIOR TO INSTALLATION.
3. REFER TO MEP DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT SHOWN ON PLAN. CONTRACTOR TO VERIFY, COORDINATE, AND SUBMIT FOR EOR REVIEW PRIOR TO INSTALLATION.
4. SEE ARCHITECTURAL DRAWINGS FOR ROOF SCUPPER LOCATIONS.



01 ROOF FRAMING PLAN - NEW ROOF

1/8" = 1'-0"

TOP OF PRECAST EL = VARIES

PLOT DATE: 3/23/2026 10:08:26 TEMPLATE VERSION:

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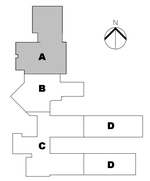
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SEAL & SIGNATURE



Registered Engineering Firm: HKS Inc.
Firm Registration Number: F-2417



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

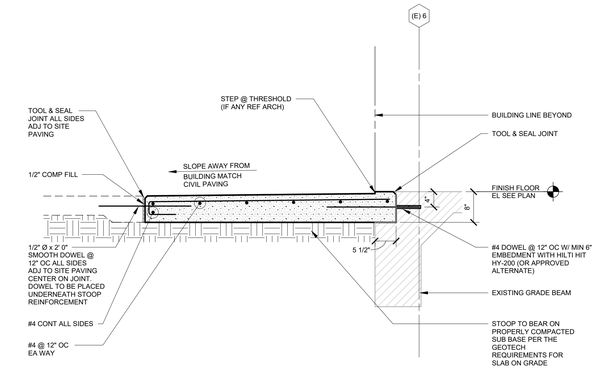
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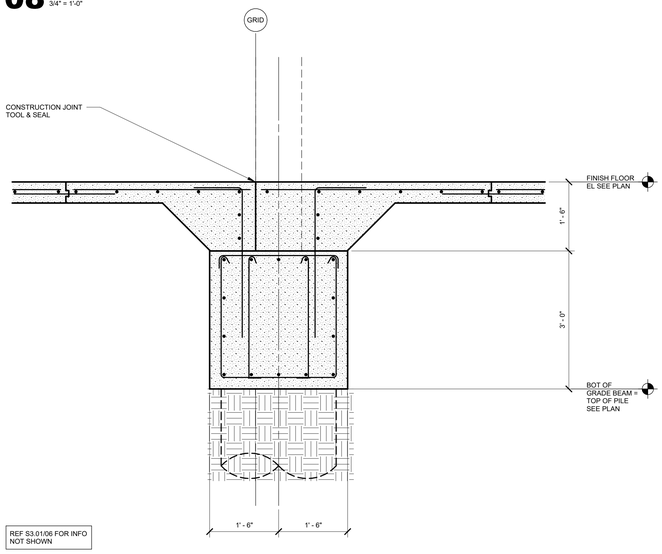
SHEET TITLE
ROOF FRAMING PLAN

SHEET NO.
S2.02

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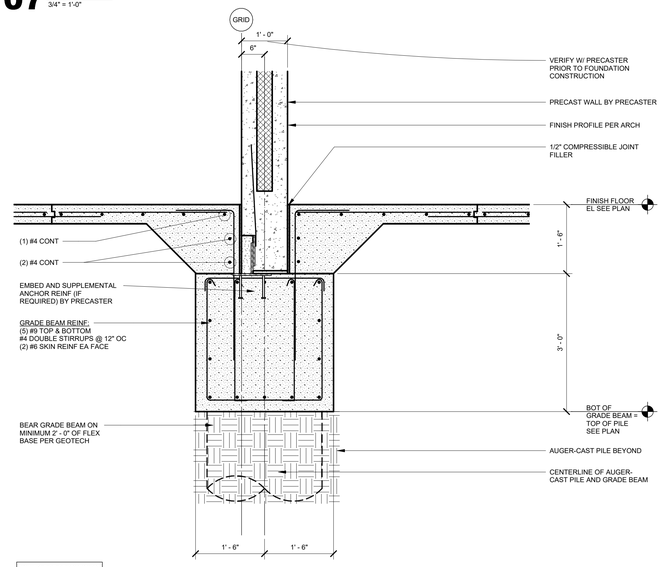


08 SECTION
3/4" = 1'-0"



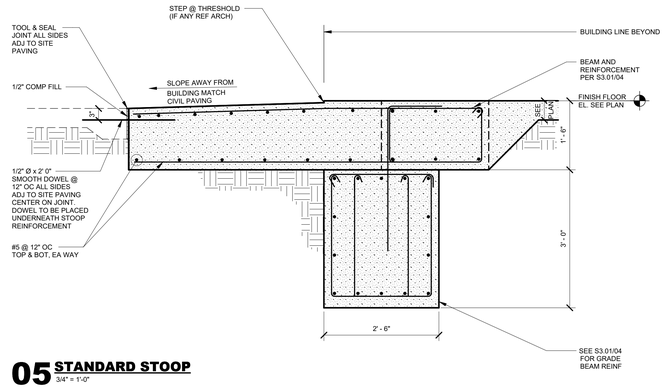
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07 SECTION
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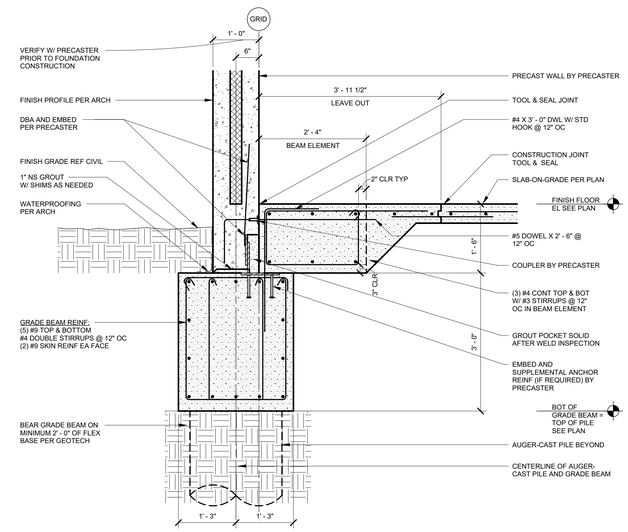


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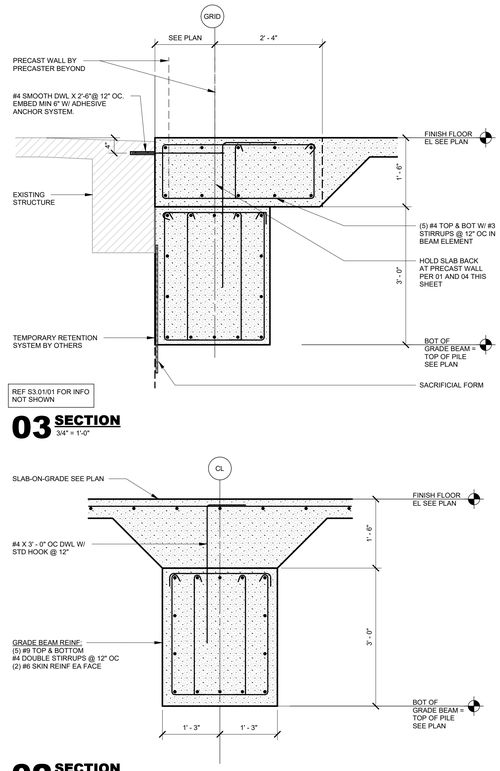
06 SECTION
3/4" = 1'-0"



05 STANDARD STOOP
3/4" = 1'-0"



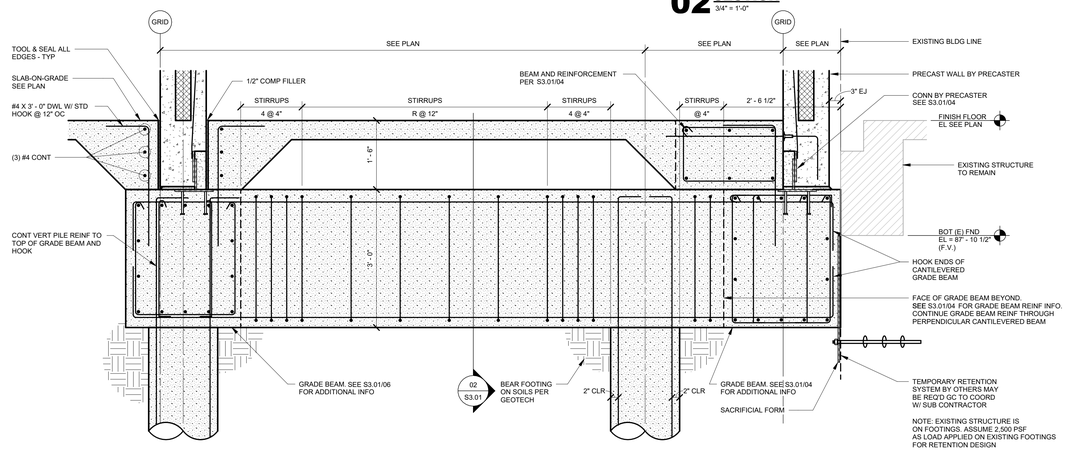
04 SECTION
3/4" = 1'-0"



REF S3.01/01 FOR INFO
NOT SHOWN

03 SECTION
3/4" = 1'-0"

02 SECTION
3/4" = 1'-0"



01 SECTION
3/4" = 1'-0"

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SEAL & SIGNATURE

STATE OF TEXAS
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116848
LICENSED
PROFESSIONAL ENGINEER
3/20/26

Registered Engineering Firm: HKS Inc.
Firm Registration Number: F-2417

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DATE
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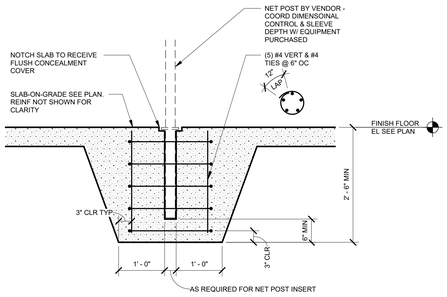
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SECTIONS AND DETAILS

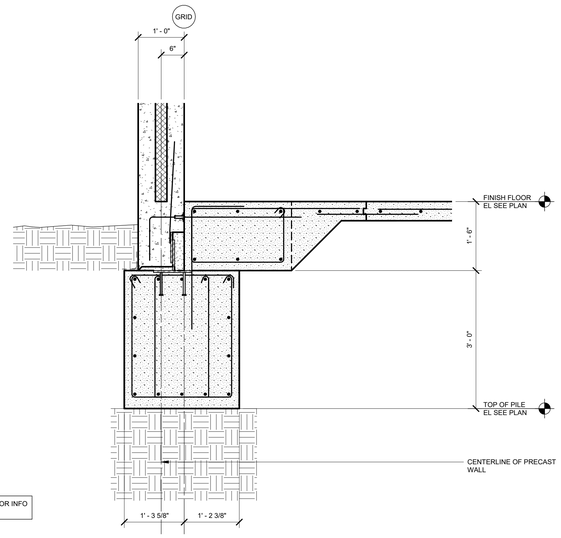
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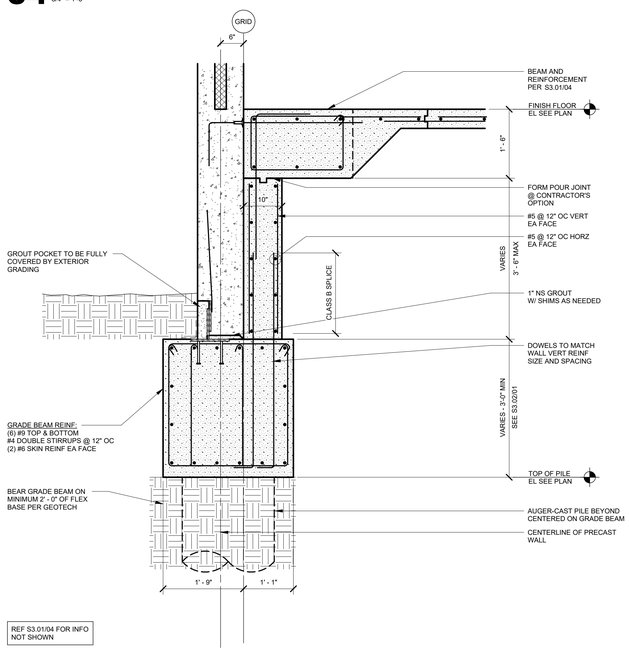


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3/4" = 1'-0"



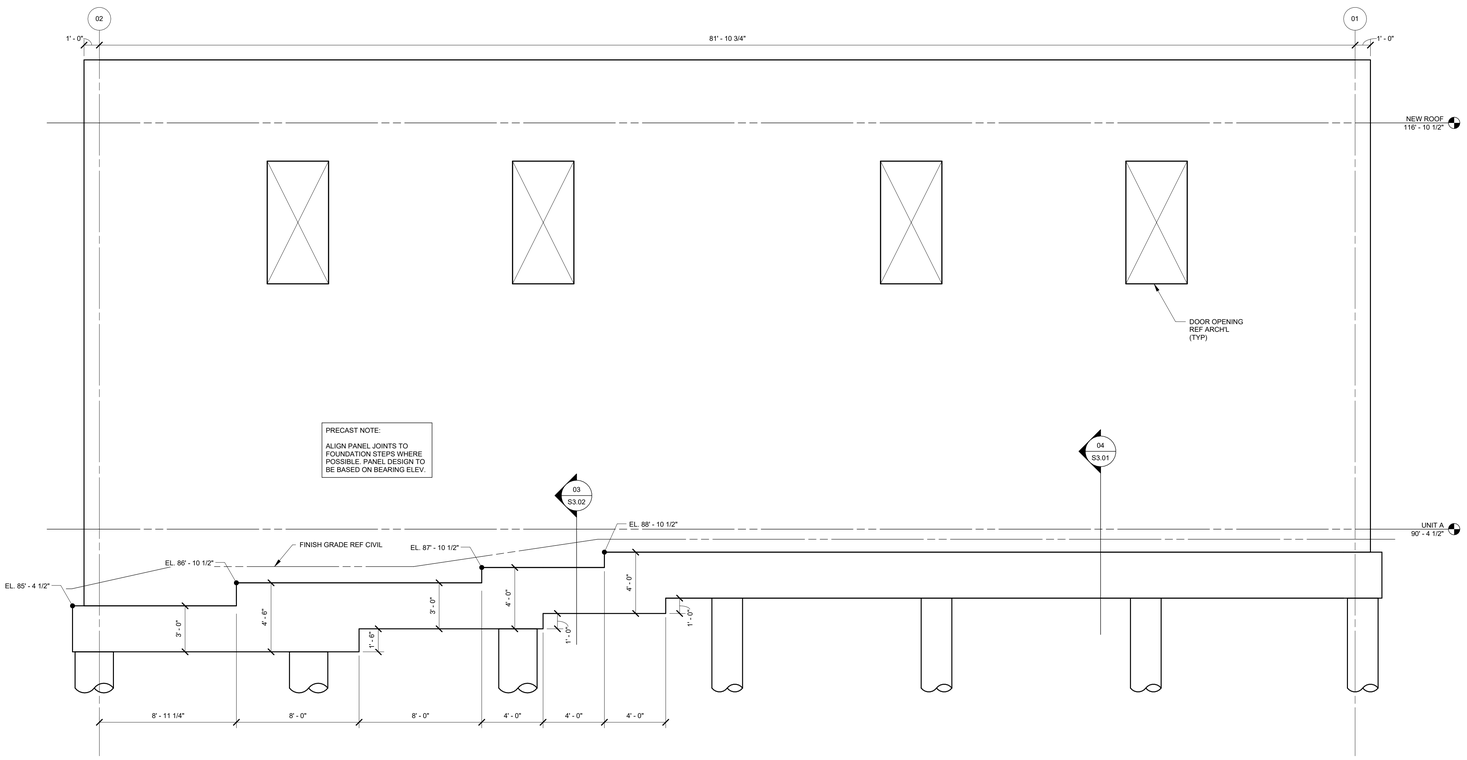
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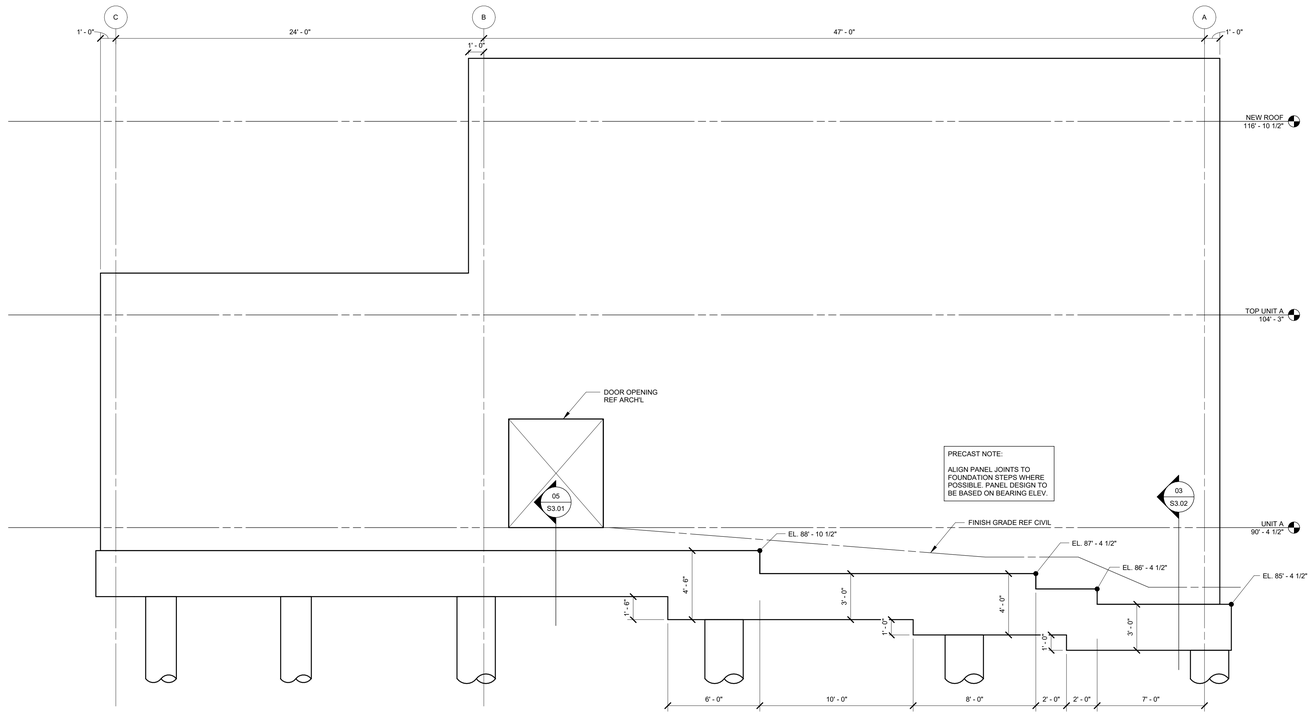


REF S3.01/04 FOR INFO NOT SHOWN

03 SECTION
3/4" = 1'-0"



02 ELEVATION
1/4" = 1'-0"



01 ELEVATION
1/4" = 1'-0"

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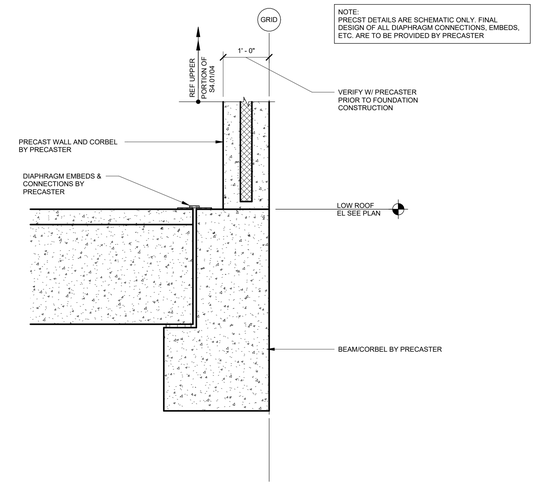
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BUILDING ELEVATIONS

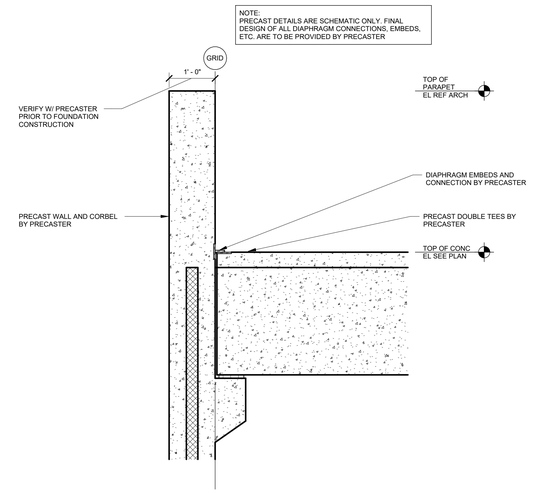
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S3.02

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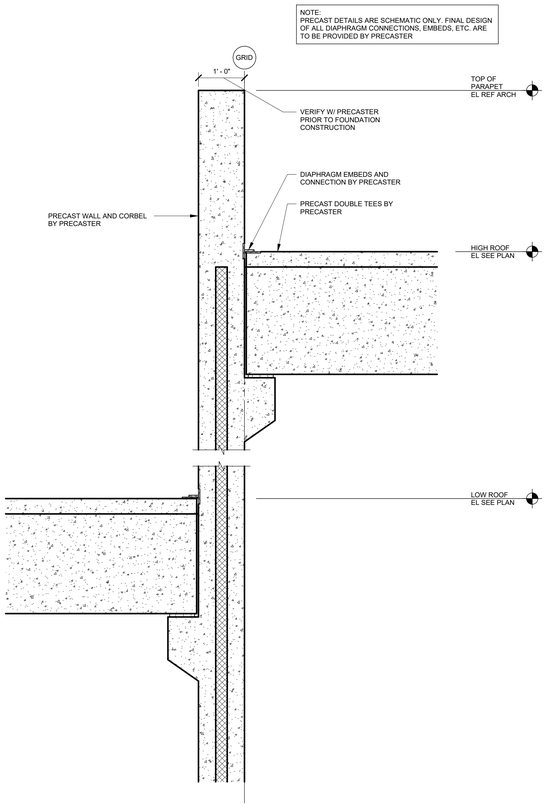
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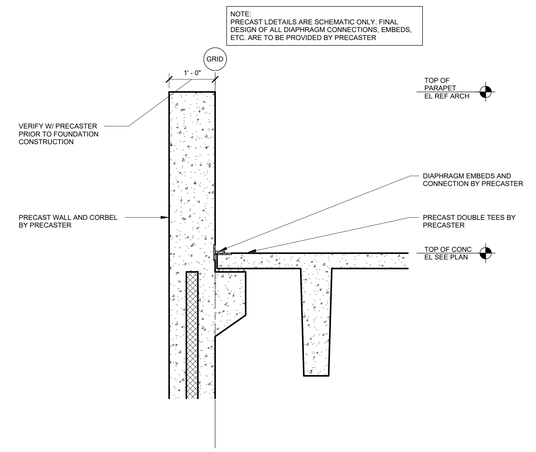
03 **TYP INTERIOR WALL OVER OPENING**
3/4" = 1'-0"



02 **TYP EXTERIOR WALL PERPENDICULAR**
3/4" = 1'-0"



04 **TYP INTERIOR WALL PERPENDICULAR**
3/4" = 1'-0"



01 **TYP EXTERIOR WALL PARALLEL**
3/4" = 1'-0"

PLOT DATE:
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SHEET TITLE
SECTIONS AND DETAILS

SHEET NO.
S4.01

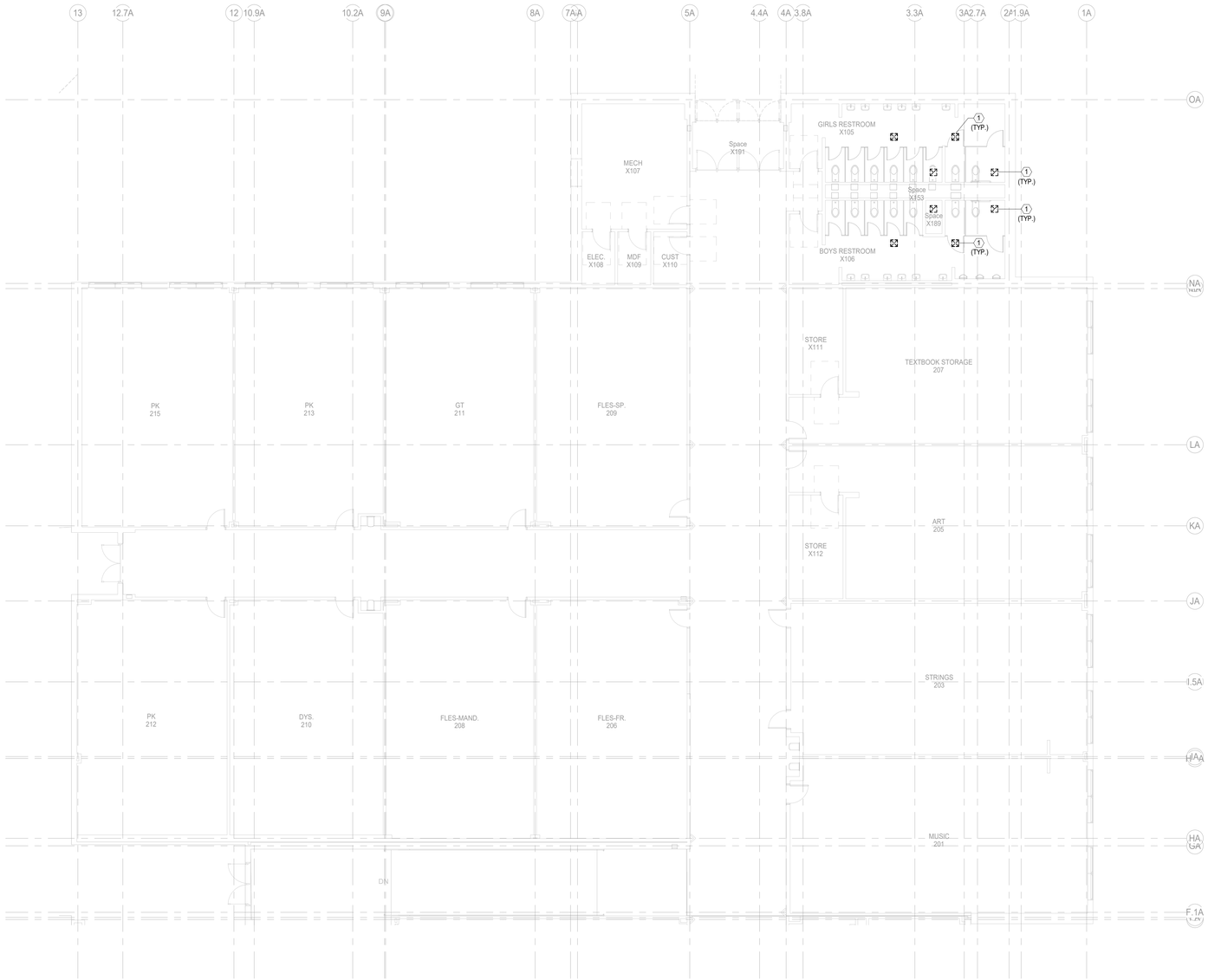
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MECHANICAL KEYED NOTES

1	REMOVE AND DISCARD EXISTING CEILING MOUNTED AIR DEVICE. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW CEILING MOUNTED AIR DEVICE.

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE MITRED ELBOWS.
4. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
5. COORDINATE IN FIELD THE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR.
6. SENSORS SHALL BE MOUNTED AT +48" A.F.F. (ABOVE FINISHED FLOOR) UNLESS OTHERWISE NOTED.
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9. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY BUILDING EXHAUSTS OR VENTS ON THE ROOF.
10. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND ROOF EDGES.
11. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PRECAST WALL MANUFACTURER FOR ALL ROUGH-IN REQUIREMENTS.



1 **MECHANICAL PLAN - UNIT A DEMO**
Scale: 1/8" = 1'-0"

PLOT DATE:
12/26/2025 11:31:32 AM TEMPLATE VERSION: 23.0.4

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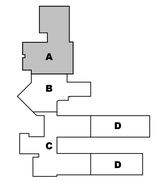
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT A - MECHANICAL PLAN - DEMO

SHEET NO.
M8.01

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Registration: F-4111
Project No: 2550-02052

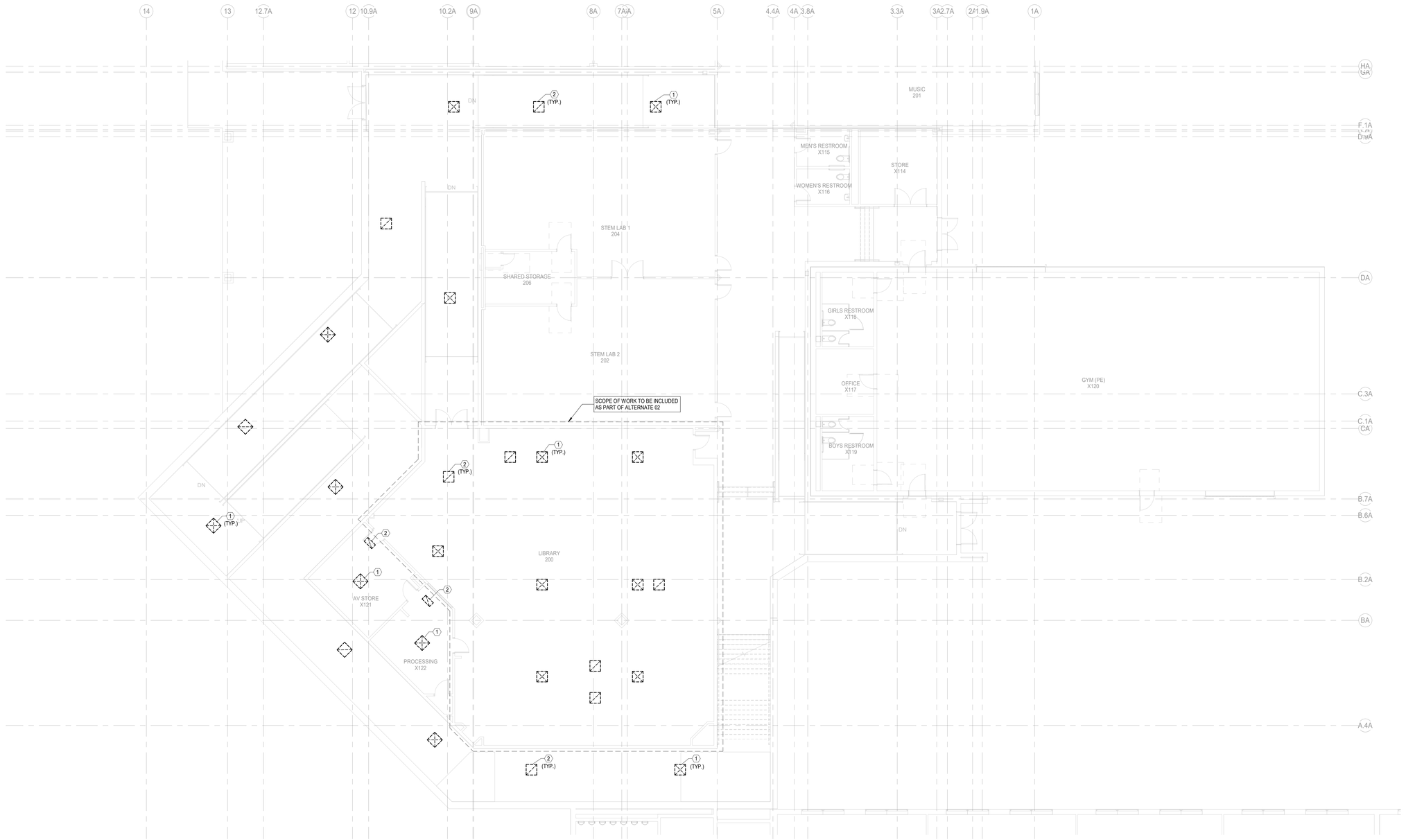
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MECHANICAL KEYED NOTES

1	REMOVE AND DISCARD EXISTING CEILING MOUNTED AIR DEVICE AND ASSOCIATED FLEX DUCT. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW CEILING MOUNTED AIR DEVICE.
2	REMOVE AND DISCARD EXISTING CEILING MOUNTED RETURN AIR GRILLE.

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
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1 MECHANICAL PLAN - UNIT B DEMO

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

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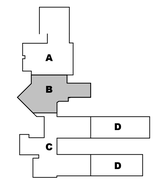
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WIMBISH WORLD LANGUAGE ACADEMY

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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE

UNIT B - MECHANICAL PLAN - DEMO

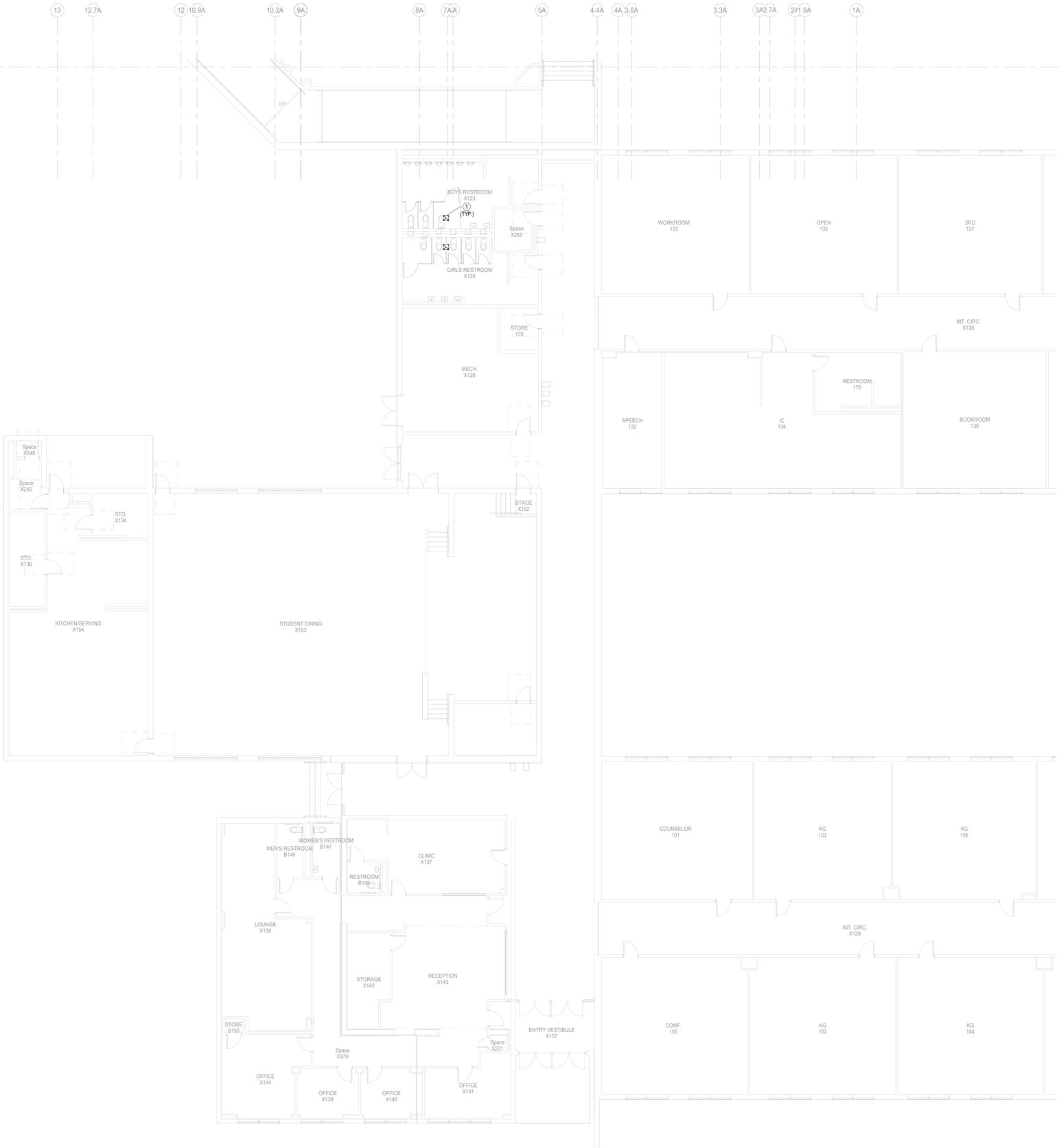
SHEET NO.

M8.02

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1 **MECHANICAL PLAN - UNIT C DEMO**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
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MECHANICAL KEYED NOTES

1	REMOVE AND DISCARD EXISTING CEILING MOUNTED AIR DEVICE. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW CEILING MOUNTED AIR DEVICE.

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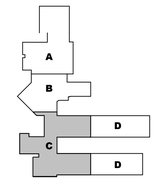
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT C - MECHANICAL PLAN - DEMO

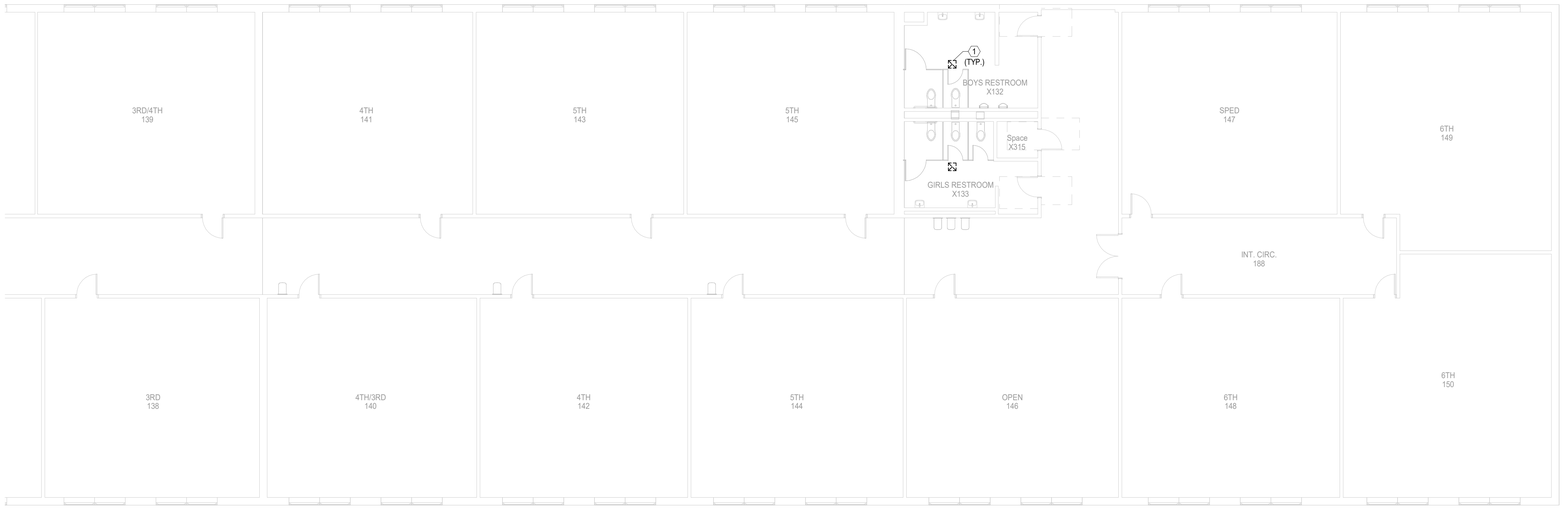
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M8.03

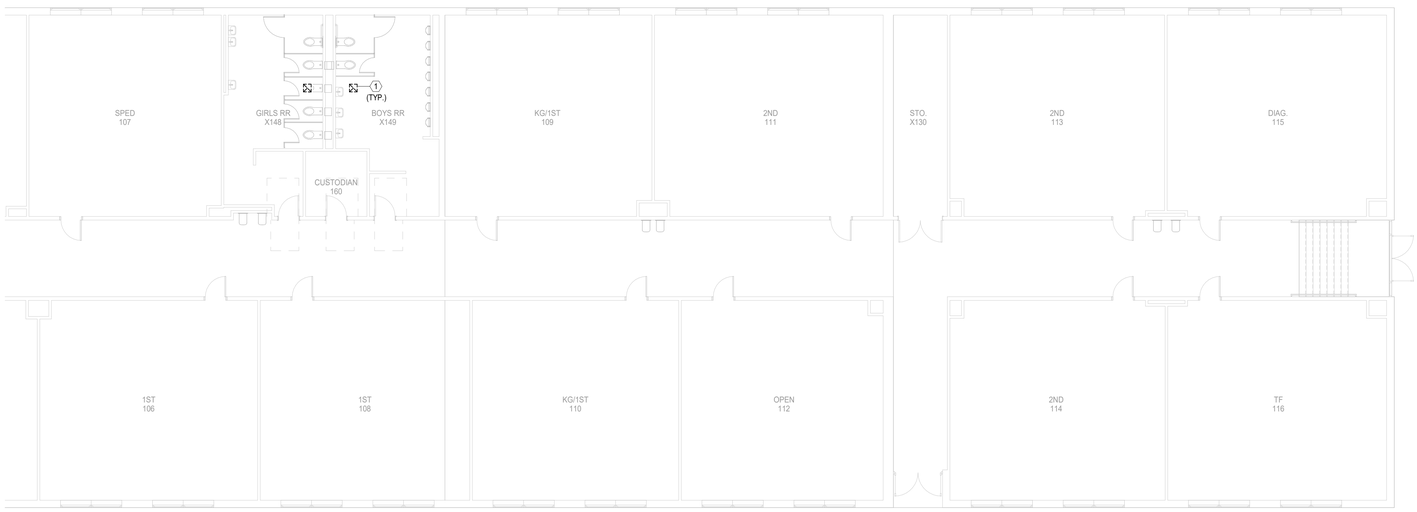
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Registration: F-4111
Project No: 2550-02052

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1 MECHANICAL PLAN - UNIT D DEMO

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

MECHANICAL GENERAL NOTES

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1	REMOVE AND DISCARD EXISTING CEILING MOUNTED AIR DEVICE. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW CEILING MOUNTED AIR DEVICE.

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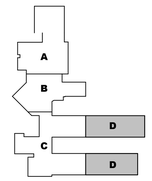
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE

UNIT D - MECHANICAL PLAN - DEMO

SHEET NO.

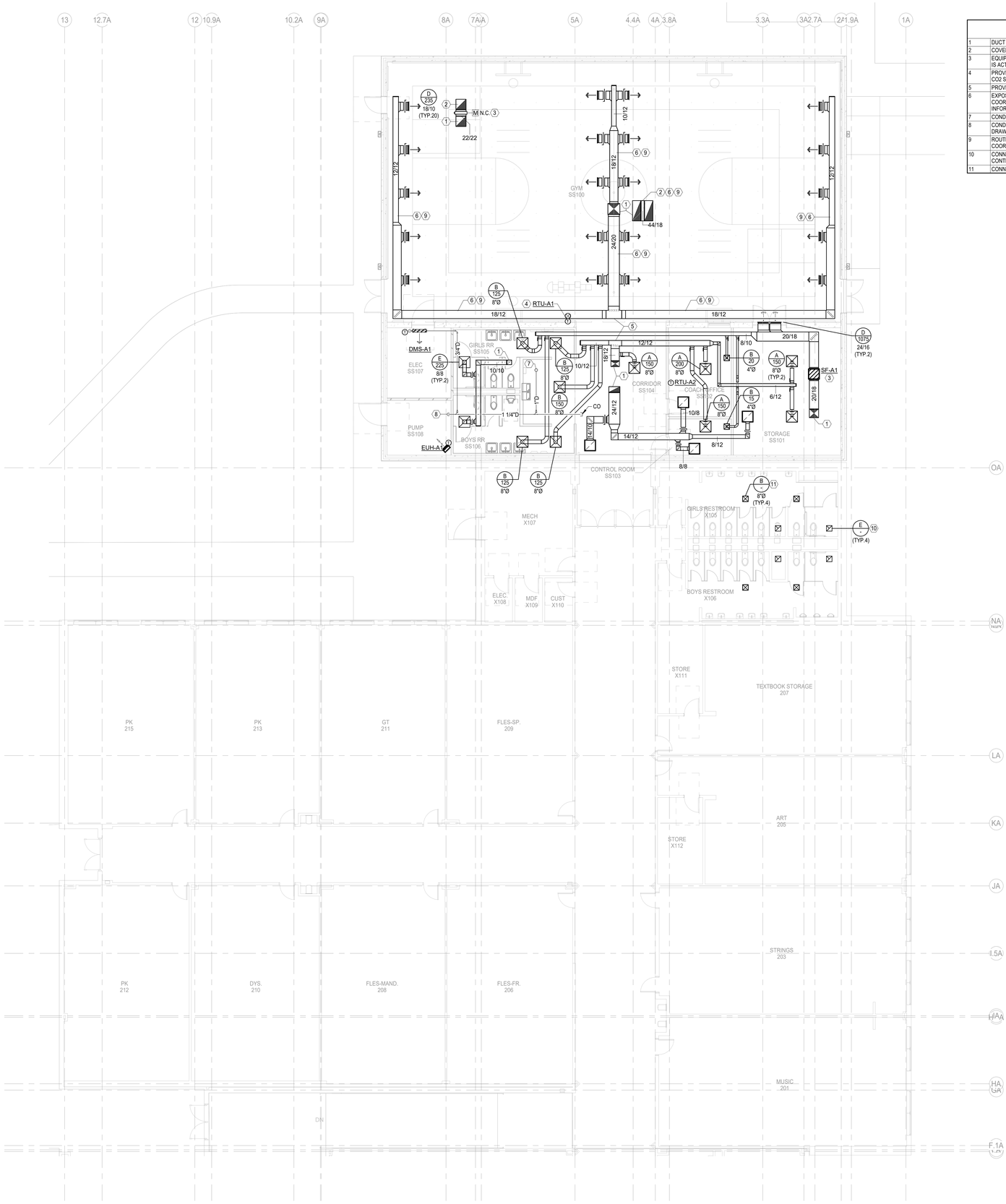
M8.04

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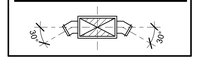
MECHANICAL KEYED NOTES

1	DUCT UP THRU ROOF. PROVIDE TRANSITION TO UNIT/FAN FULL SIZE IN DUCT RISER.
2	COVER OPENING IN TOP OF DUCT WITH 1/2" WIRE MESH. SIZE AS NOTED.
3	EQUIPMENT TIED TO STORM SHELTER CONTROL PANEL. DAMPER SHALL FULL OPEN WHEN SF-A1 IS ACTIVATED. REFER TO DETAIL 3/E10.52 FOR MORE INFORMATION.
4	PROVIDE STAINLESS STEEL FACEPLATE TEMPERATURE SENSOR. PROVIDE METAL GUARD FOR CO2 SENSOR.
5	PROVIDE TEE WITH SPLITTER DAMPER.
6	EXPOSED DUCT SHALL BE DOUBLE-WALL LINED ACOUSTICAL DUCTWORK WITH PAINT GRIP FINISH. COORDINATE PAINTING REQUIREMENTS WITH ARCHITECT. RE: SPECIFICATIONS FOR MORE INFORMATION.
7	CONDENSATE PIPING DOWN FROM ABOVE. PROVIDE HORIZONTAL CLEANOUT TRANSITION.
8	CONDENSATE DRAIN PIPING DOWN TO APPROVED INDIRECT WASTE RECEPTOR. RE: PLUMBING DRAWINGS FOR DRAIN LOCATION.
9	ROUTE DUCTWORK IN THIS AREA AS HIGH AS POSSIBLE TIGHT TO DOUBLE TEE STRUCTURE. COORDINATE ROUTING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
10	CONNECT NEW CEILING MOUNTED AIR DEVICE TO EXISTING DUCTWORK WITH HARD DUCT. CONTRACTOR TO MATCH GRILLE NECK SIZE TO EXISTING EXHAUST DUCT SIZE.
11	CONNECT NEW CEILING MOUNTED AIR DEVICE TO EXISTING DUCTWORK WITH HARD DUCT.

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TYPICAL EXPOSED DUCTWORK ELEVATION



TYPICAL RETURN AIR GRILLE



ICC-500-2020 STORM SHELTER CODE COMPLIANCE CHART

STORM SHELTER TYPE	COMMUNITY TORNADO SHELTER (EVENT TIME -MINIMUM 2 HOURS)
SHELTER DESIGN OCCUPANCY	487 PEOPLE
SANITATION REQUIREMENTS:	
1. WATER SUPPLY	DEDICATED UNDERGROUND SERVICE; REFER TO PLUMBING DRAWINGS.
2. SANITARY SEWER	DEDICATED UNDERGROUND SERVICE; REFER TO PLUMBING DRAWINGS.
3. TOILET FACILITIES REQUIRED = 2 MINIMUM FOR FIRST 500 OCCUPANTS + 1 PER ADDITIONAL 500 OCCUPANTS.	3 REQUIRED; 5 WATER CLOSETS PROVIDED; REFER TO PLUMBING DRAWINGS.
4. HANDWASHING FACILITIES REQUIRED: 1 PER 1000 OCCUPANTS.	1 REQUIRED; 6 PROVIDED; REFER TO PLUMBING DRAWINGS.
FIRE PROTECTION SYSTEM REQUIREMENTS	FIRE EXTINGUISHERS FURNISHED AS AN ALLOWED OPTION; REFER TO ARCHITECTURAL DRAWINGS.
EMERGENCY LIGHTING: MINIMUM TWO (2) HOURS OF OPERATION REQUIRED AT A MINIMUM OF 1 FOOT CANDLE (11 LUX).	NORMAL LED LIGHTING FIXTURES SERVED BY A TWO (2) HOUR RATED INVERTER (BATTERY) SYSTEM TO MEET THIS REQUIREMENT. REFER TO ELECTRICAL DRAWINGS.
VENTILATION REQUIREMENTS: MECHANICAL VENTILATION OPTION USED WHICH REQUIRES THE MINIMUM MECHANICAL VENTILATION RATE OF REQUIRED OUTDOOR AIR OF 5 CUBIC FEET PER MINUTE PER OCCUPANT FOR THE DESIGN CAPACITY.	2,435 CFM REQUIRED; A SUPPLY FAN SIZED FOR 2,435 CFM AND OPEN TO SPACE FOR DISTRIBUTION; REFER TO MECHANICAL DRAWINGS. MECHANICAL VENTILATION FAN SERVED BY A TWO (2) HOUR RATED INVERTER (BATTERY) SYSTEM TO MEET THIS REQUIREMENT; REFER TO ELECTRICAL DRAWINGS.
FIRE RATED WALLS: SHELTER ENCLOSURE REQUIRED TO HAVE 2-HOUR FIRE RATED ENCLOSURE.	ALL PENETRATIONS TO ADJACENT SPACES HAVE 2-HOUR RATED FIRE DAMPERS SHOWN TO MEET THIS REQUIREMENT. NONE EXIST IN THE SHELTER.
PENETRATIONS: ALL RECTANGULAR OPENINGS LARGER THAN 3-1/2 SQUARE INCHES AND ROUND OPENINGS LARGER THAN 2-1/16" DIAMETER REQUIRE PROTECTION.	FEMA 320/361 LOUVER ASSEMBLY PROVIDED WHERE REQUIRED; REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS.

1 MECHANICAL PLAN - UNIT A

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

PLOT DATE: 12/26/2025 11:31:02 AM TEMPLATE VERSION: 23.0.4

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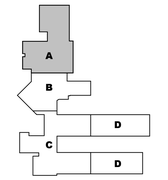
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KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
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SHEET TITLE

UNIT A - MECHANICAL PLAN

SHEET NO.

M8.11

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MECHANICAL KEYED NOTES

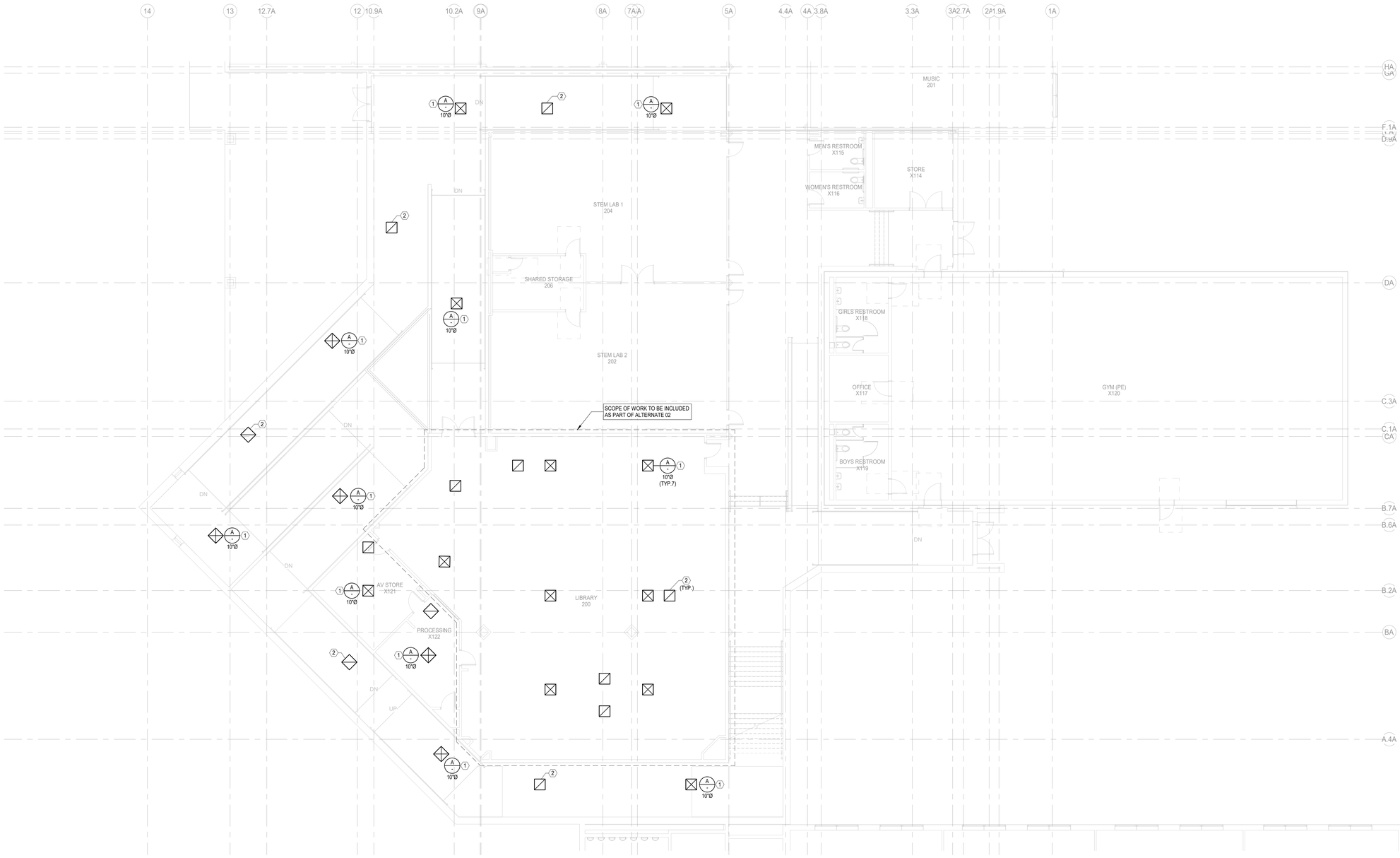
1	CONNECT NEW CEILING MOUNTED AIR DEVICE TO EXISTING DUCTWORK WITH FLEX DUCT. EXTEND EXISTING METAL DUCTWORK AS REQUIRED TO LIMIT FLEX DUCT MAXIMUM TO 6' LENGTH AS SPECIFIED.
2	PROVIDE NEW CEILING MOUNTED RETURN AIR GRILLE.

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE MITRED ELBOWS.
4. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
5. COORDINATE IN FIELD THE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH STRUCTURAL ENGINEER AND ROOFING CONTRACTOR.
6. SENSORS SHALL BE MOUNTED AT +48" A.F.F. (ABOVE FINISHED FLOOR) UNLESS OTHERWISE NOTED.
7. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
8. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
9. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY BUILDING EXHAUSTS OR VENTS ON THE ROOF.
10. MECHANICAL CONTRACTOR SHALL MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND ROOF EDGES.
11. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PRECAST WALL MANUFACTURER FOR ALL ROUGH-IN REQUIREMENTS.

TYPICAL RETURN AIR GRILLE

C / 22/22



1 MECHANICAL PLAN - UNIT B

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

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MEP

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IRVING, TEXAS 75062
(972) 812-1270

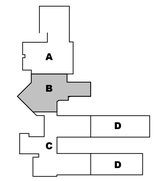
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
ARCHITECT
04/27/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE

UNIT B - MECHANICAL PLAN

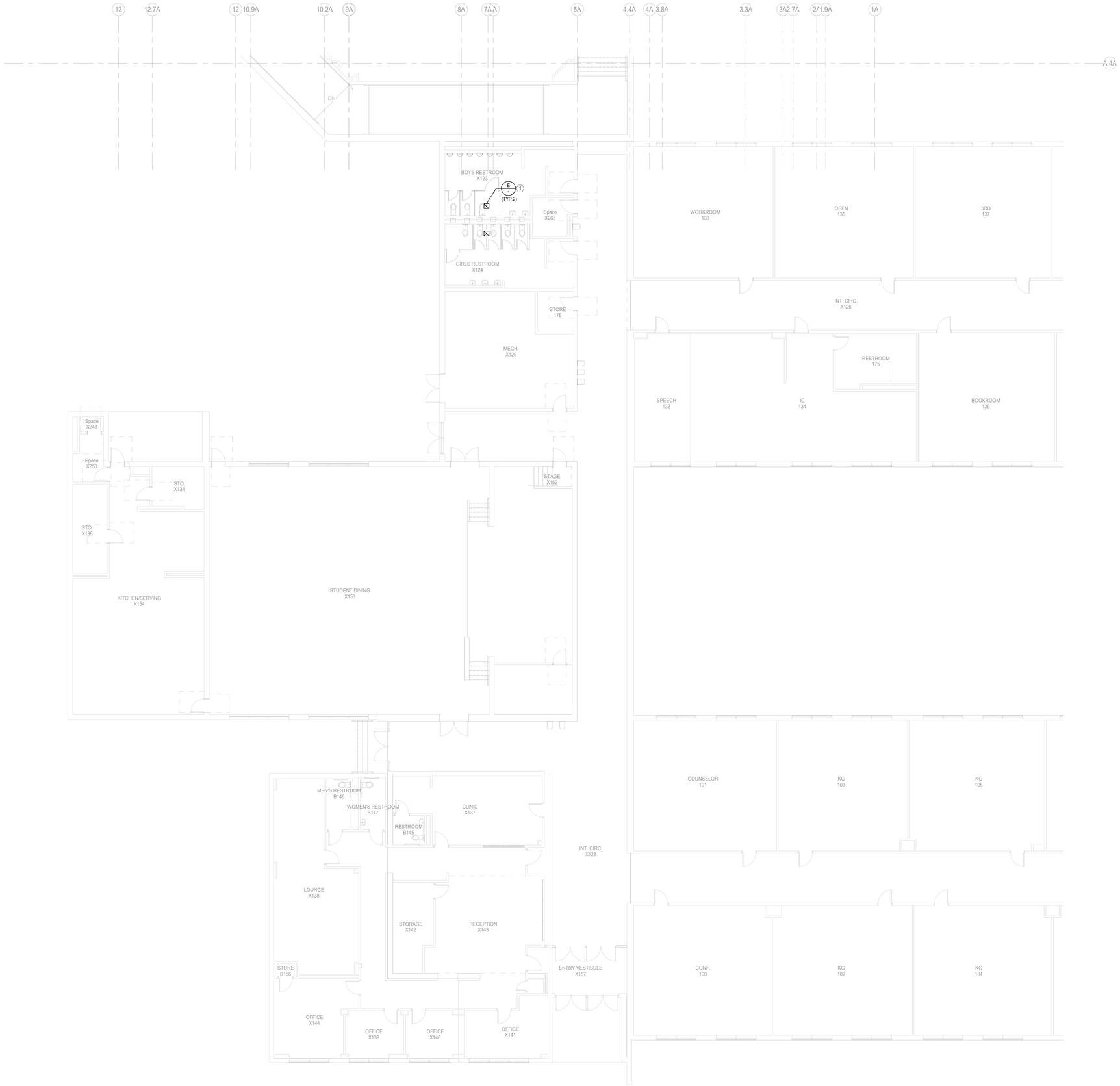
SHEET NO.

M8.12

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Irving, TX 75062

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Project No: 2550-02052

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1 MECHANICAL PLAN - UNIT C

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

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
3. PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE MITRED ELBOWS.
4. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
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11. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PRECAST WALL MANUFACTURER FOR ALL ROUGH-IN REQUIREMENTS.

MECHANICAL KEYED NOTES

1	CONNECT NEW CEILING MOUNTED AIR DEVICE TO EXISTING DUCTWORK WITH HARD DUCT. CONTRACTOR TO MATCH GRILLE NECK SIZE TO EXISTING EXHAUST DUCT SIZE.

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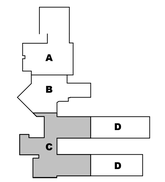
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HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

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SHEET TITLE

UNIT C - MECHANICAL PLAN

SHEET NO.

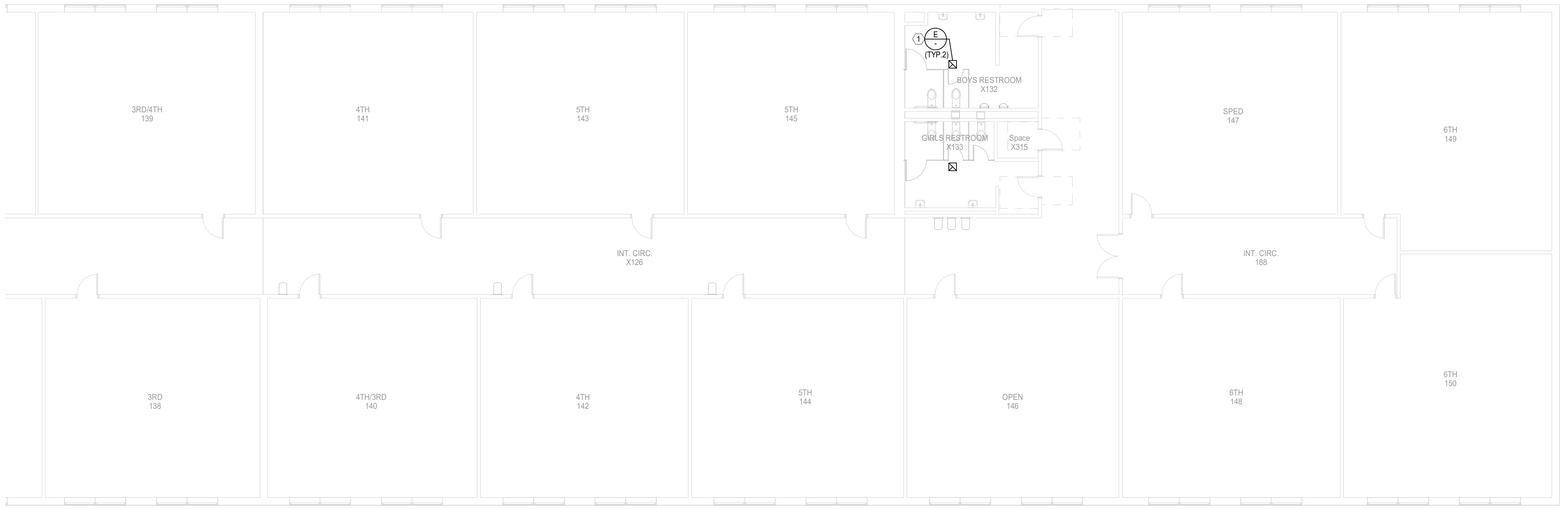
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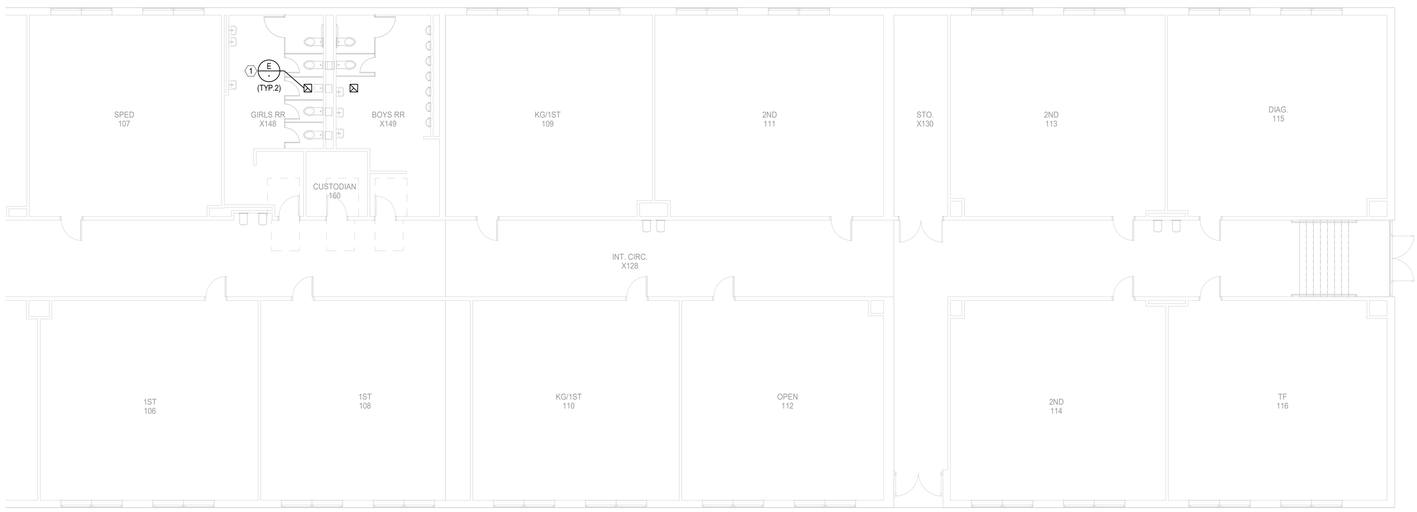
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Project No: 2550-02052

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1 **MECHANICAL PLAN - UNIT D**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DIFFUSERS AND CEILING GRILLES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. RE: GRILLE SCHEDULE ON SCHEDULE SHEET.
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11. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PRECAST WALL MANUFACTURER FOR ALL ROUGH-IN REQUIREMENTS.

MECHANICAL KEYED NOTES

1	CONNECT NEW CEILING MOUNTED AIR DEVICE TO EXISTING DUCTWORK WITH HARD DUCT. CONTRACTOR TO MATCH GRILLE NECK SIZE TO EXISTING EXHAUST DUCT SIZE.

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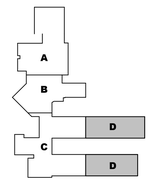
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT D - MECHANICAL PLAN

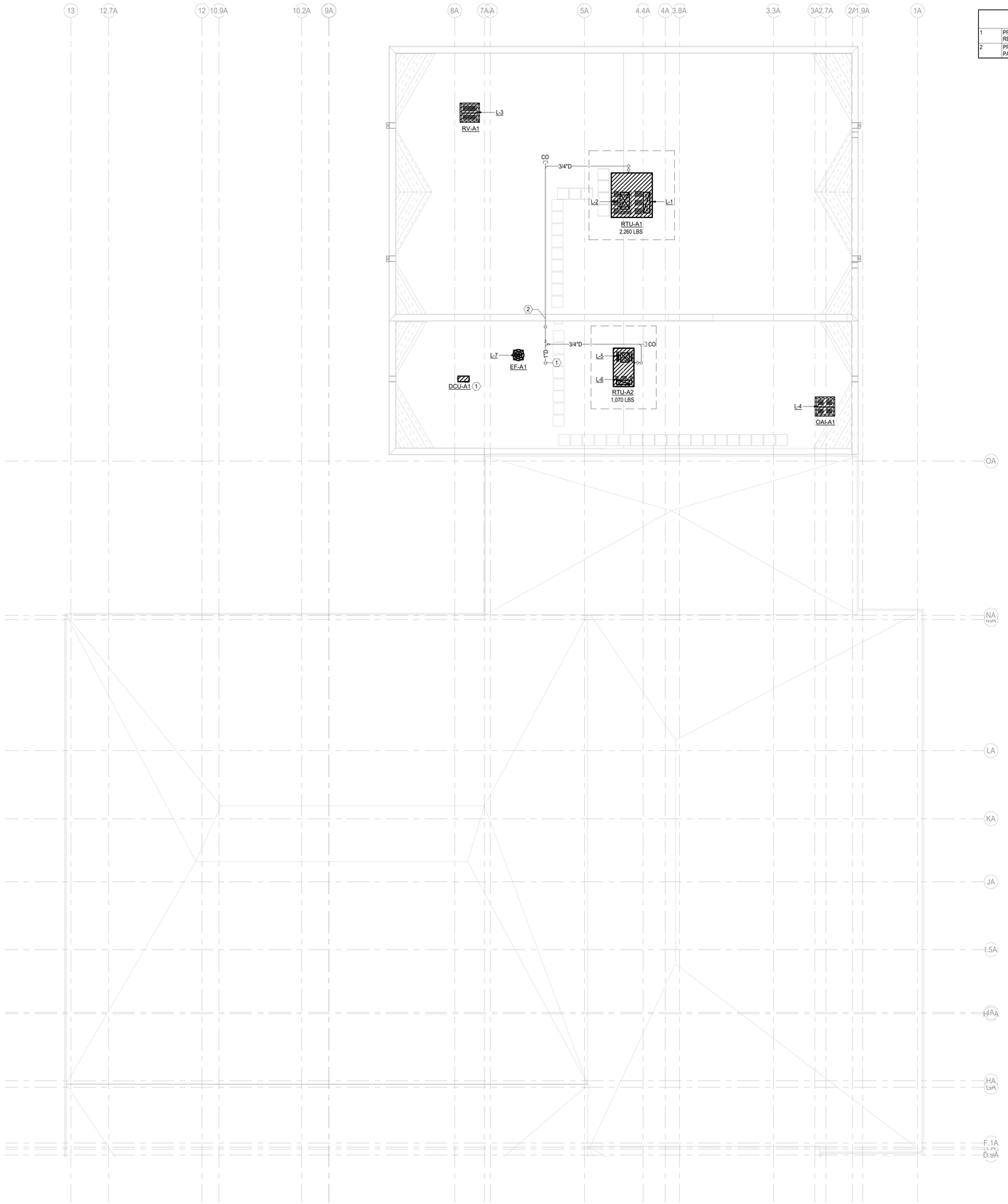
SHEET NO.
M8.14

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1 **R1 - MECHANICAL PLAN - UNIT A**
Scale: 1/8" = 1'-0"

MECHANICAL KEYED NOTES

1	PROVIDE RPH CYCLONE ICC-500 RATED HOUSING OR APPROVED EQUIVALENT FOR REFRIGERANT/CONDENSATE PIPING PENETRATION THROUGH ROOF.
2	PROVIDE A SLEEVE TO ALLOW FOR INSULATED CONDENSATE AND GAS PIPING TO PASS THROUGH PARAPET. COORDINATE EXACT REQUIREMENTS WITH PRE-CAST CONTRACTOR.

MECHANICAL GENERAL NOTES

1. REFER TO HEATING, VENTILATION AND AIR CONDITIONING SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL REQUIREMENTS.
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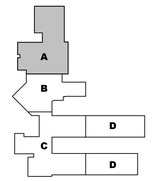
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

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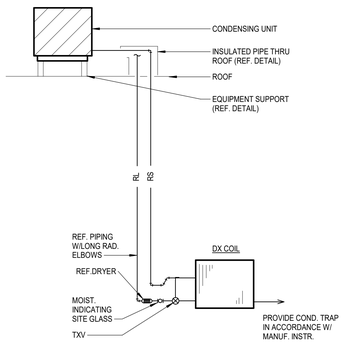
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UNIT A - MECHANICAL PLAN - ROOF

SHEET NO.
M8.21

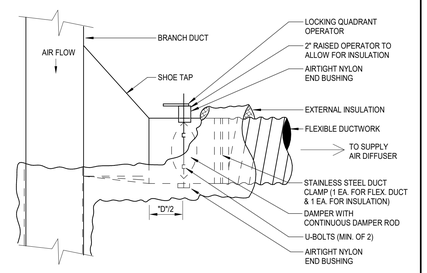
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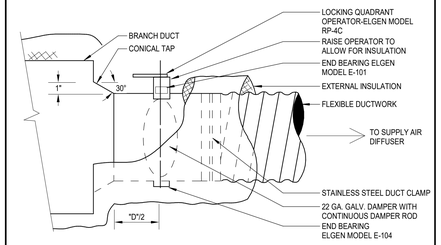
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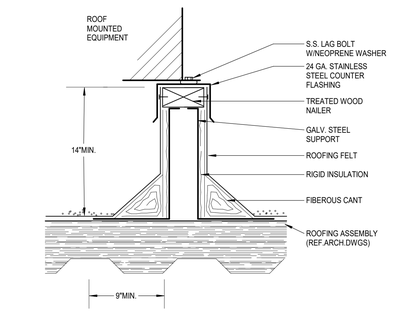
9 **REFRIGERANT PIPING DIAGRAM**
SCALE: NONE



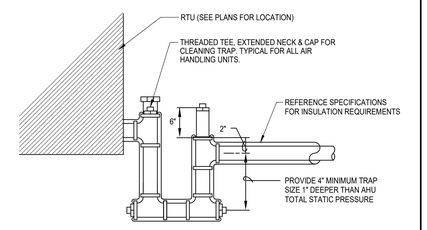
6 **FLEXIBLE DUCT TAP - SHOE**
SCALE: NONE



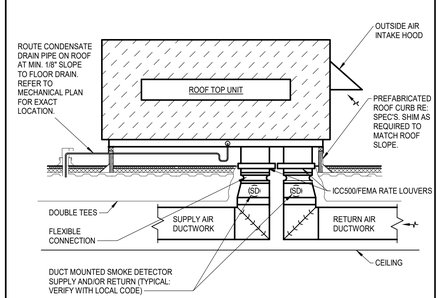
3 **FLEXIBLE DUCT TAP - CONICAL**
SCALE: NONE



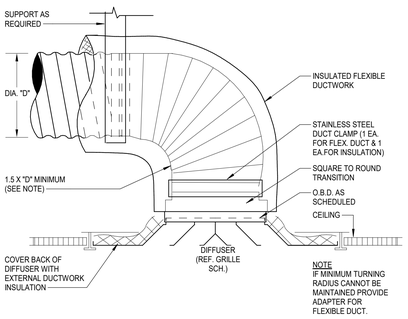
8 **EQUIPMENT SUPPORT**
SCALE: NONE



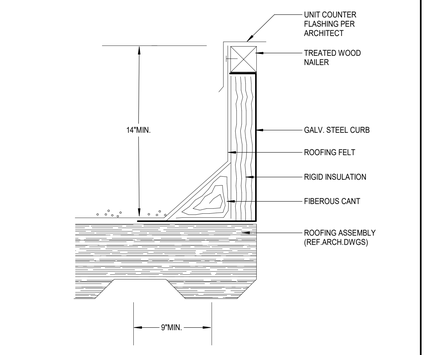
5 **CONDENSATE DRAIN PIPING AT RTU**
SCALE: NONE



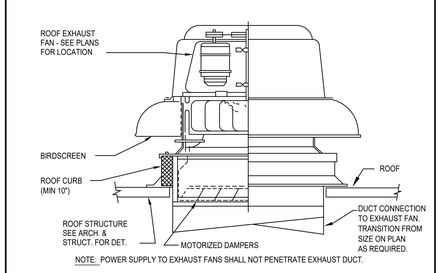
2 **ROOFTOP UNIT ELEVATION**
SCALE: NONE



FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
7 SCALE: NONE



4 **ROOF CURB**
SCALE: NONE



1 **ROOF EXHAUST FAN**
SCALE: NONE

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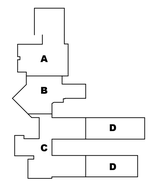
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KEITH W. GASSMAN
89636
REGISTERED
ENGINEER
04/27/2026



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26399.005

DATE
04/27/2026

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SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M8.41

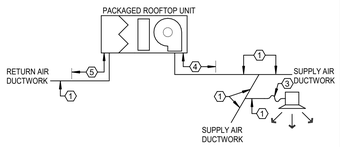
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salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
Irving, TX 75062

Registration: F-4111
Project No: 2550-02052

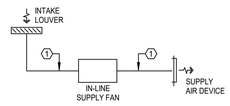
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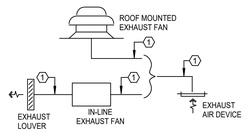
DUCT LINER AND INSULATION



PACKAGED ROOFTOP UNIT



VENTILATION AIR SYSTEMS



EXHAUST AIR SYSTEMS

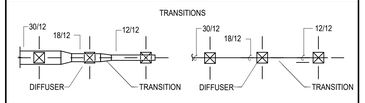
KEYED NOTES:

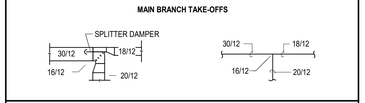
1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.

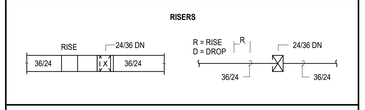
SYMBOL LEGEND

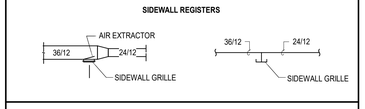
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(#)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
	SMOKE DAMPER (VERTICAL)
	SMOKE DAMPER (HORIZONTAL)
	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
CO2	CARBON DIOXIDE DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
–CWS&R–	CONDENSER WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CWS–	CONDENSER WATER SUPPLY
–CWR–	CONDENSER WATER RETURN
–CHWS&R–	CHILLED WATER SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–CHWS–	CHILLED WATER SUPPLY
–CHWR–	CHILLED WATER RETURN
–HWS&R–	HOT WATER FOR HYDRONIC HEATING SUPPLY & RETURN (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
–HWS–	HOT WATER FOR HYDRONIC HEATING SUPPLY
–HWR–	HOT WATER FOR HYDRONIC HEATING RETURN
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILLARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
—O	ELBOW UP
—O	ELBOW DOWN
—O	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
	FLOOR DRAIN (REFER TO PLUMBING DRAWINGS)
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH OPERATOR
	PLUG VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BALL VALVE
	STRAINER
	UNION
	THERMOMETER WELL
	PETE'S PLUG
	PRESSURE GAUGE
	TEMPERATURE SENSOR IN PIPE
	VENTURI FLOW METER
	FLOW SWITCH
FM	FLOW MEASURING STATION
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	GAUGE COCK
	SITE GLASS
	DIFFERENTIAL PRESSURE SENSOR
	TURBINE FLOW METER
	ANCHOR
	PIPE GUIDE
SUBSCRIPTS AND ABREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

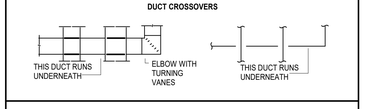
DUCTWORK SYMBOLS LEGEND

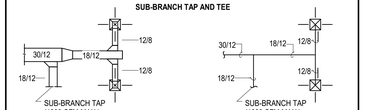


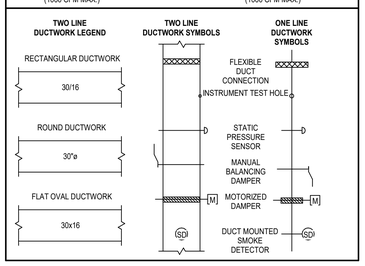




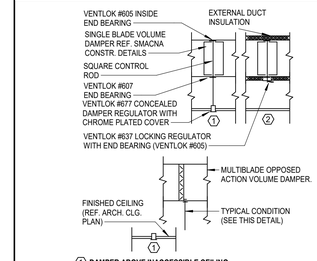




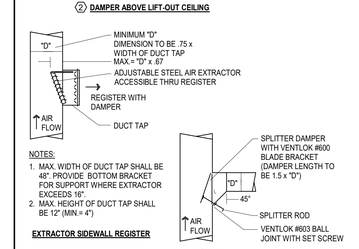




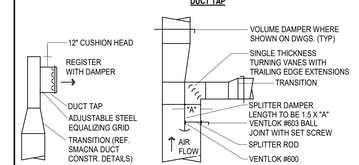
DUCTWORK CONSTRUCTION DETAILS



1. DAMPER ABOVE INACCESSIBLE CEILING
2. DAMPER ABOVE LIFT-OUT CEILING

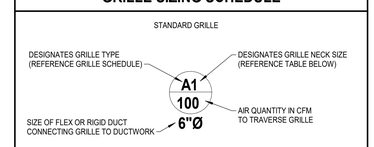


EXTRACTOR SIDEWALL REGISTER — DUCT TAP

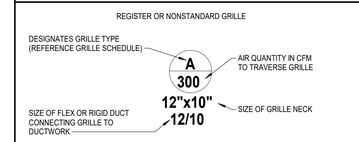


SIDEWALL REGISTER AT END OF DUCT — SPLITTER

GRILLE SIZING SCHEDULE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS ".
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:
N/A - NOT APPLICABLE

HKS

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DALLAS, TEXAS 75201
(214) 969-5599

CIVIL
MJ THOMAS ENGINEERING LLC
4700 BRYANT IRVIN COURT, SUITE 204
FORT WORTH, TEXAS 76107
(817) 732-9839

LANDSCAPE
CCA LANDSCAPE ARCHITECTS
12700 HILLCREST ROAD, SUITE 149
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(214) 739-9105

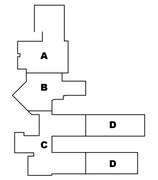
MEP
SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

STRUCTURAL
HKS, INC
350 N SAINT PAUL ST SUITE 100
DALLAS, TEXAS 75201
(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE





KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
MECHANICAL LEGENDS

SHEET NO.
M8.51

Salas O'Brien
salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
Irving, TX 75062
Registration: F-4111
Project No: 2550-02052

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PLOT DATE: 12/26/2025 11:31:32 AM TEMPLATE VERSION: 23.0.4

PACKAGED ROOFTOP UNIT - GAS HEAT

MARK	FAN							COOLING						HEATING				BASIS OF DESIGN				WEIGHT (LBS)	REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHAR			AIR TEMPERATURE (°F)			TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	MINIMUM EER/ IEER	MINIMUM EER2/ SEER2	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	INPUT (BTUH)	OUTPUT (BTUH)	AFUE %	NUMBER OF STAGES	MANUFACTURER	MODEL	MCA	MOCP		
					V	P	F	ENTERING DRY BULB	ENTERING WET BULB	AMBIENT TEMP															
RTU-A1	4,700	450	1.20	5.0	240	3	60	77.7	63.7	105	138,200	114,000	11.56/15.88	-	4	65.2	195,000	158,000	81	2	AAON	RNA	88	110	2260	1,2,3,4,5,6,7,8,9,10,11,12,14,15
RTU-A2	1,200	60	0.80	1.0	240	3	60	76.4	63.2	105	29,500	23,900	-	11.65/14.7	2	67.5	60,000	48,600	81	2	AAON	RQA	22	30	1070	1,2,3,4,5,6,7,8,9,12,13,15

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH WEATHER-PROOF DISCONNECT SWITCH AND HAIL GUARD. DISCONNECT SWITCH SHALL MEET WORK CLEARANCE REQUIREMENT PER NEC. COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING UNITS ON THE ROOF.
2. PROVIDE UNIT WITH FULL PERIMETER ROOF CURB
3. PROVIDE UNIT WITH FACTORY INSTALLED NON-POWERED WEATHER-PROOF 115V GFI CONVENIENCE OUTLET WITH LISTED WHILE-IN-USE COVER.
4. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION THROUGH CURB BASE.
5. PROVIDE UNIT WITH LOW AMBIENT CONTROL.
6. PROVIDE A WATER LEVEL SENSING DEVICE (FLOW SWITCH) IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
7. PROVIDE STAINLESS STEEL HEAT EXCHANGER WITH MINIMUM 15 YEAR WARRANTY.
8. PROVIDE WITH MINIMUM TWO-SPEED FAN CONTROL INTERLOCKED WITH COMPRESSOR STAGING.
9. PROVIDE COMPRESSOR WITH 10-YEAR WARRANTY.
10. PROVIDE DUCT MOUNTED SMOKE DETECTOR WIRED FOR FAN SHUTDOWN AND INTERLOCKED WITH FIRE ALARM SYSTEM.
11. PROVIDE UNIT MODULATING MOTORIZED OUTSIDE AND RETURN AIR DAMPERS AND CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
12. PROVIDE WITH BIPOLAR IONIZATION HIGH EFFICIENCY AIR CLEANER -BIOCLIMATIC MODEL AOX OR APPROVED EQUIVALENT WITH DRY CONTACTS FOR BMCS MONITORING. COORDINATE ALL BMCS REQUIREMENTS WITH BMCS CONTRACTOR.
13. PROVIDE WITH LOW-LEAK ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
14. PROVIDE WITH LOW-LEAK ENTHALPY ECONOMIZER AND POWERED EXHAUST.
15. PROVIDE UNIT WITH TERMINAL STRIP FOR CONTROLS BY BMCS CONTRACTOR.

FAN SCHEDULE

MARK	CFM	EXT. STATIC PRESSURE (IN W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR			LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
					V	P	F							
EF-A1	450	0.60	1500	0.25	120	1	60	LIGHTS	-	DOWNBLAST	DIRECT	GREENHECK	G	1,2,3,4,5
SF-A1	2435	1.00	1641	1	120	1	60	PUSH BUTTON	RV-A1	INLINE	DIRECT	GREENHECK	SQ	1,2,4,5,6,7

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. REFERENCE MANUFACTURER FOR INSTALLATION GUIDE.
2. PROVIDE WITH DISCONNECT SWITCH. DISCONNECT SWITCH SHALL MEET WORK CLEARANCE REQUIREMENT PER NEC. COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING THE UNIT ON THE ROOF.
3. PROVIDE WITH ROOF CURB AND BIRD SCREEN.
4. PROVIDE WITH MOTORIZED DAMPER AS SPECIFIED.
5. PROVIDE WITH SPEED CONTROLLER.
6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
7. EMERGENCY VENTILATION FAN WITH PUSH BUTTON CONTROL. REFERENCE STORM SHELTER CONTROL PANEL DETAIL FOR MORE INFORMATION.

LOUVER

MARK	SIZE (HxW)	MINIMUM FREE AREA (SQ. FT)	PD (IN. W.G.)	CFM	MANUFACTURER	MODEL NO.	LOUVER TYPE	REMARKS
L-1	48/36	3.11	0.21	4700	RUSKIN	XP500WD	EXHAUST	ALL
L-2	48/36	3.11	0.21	4700	RUSKIN	XP500WD	INTAKE	ALL
L-3	30/30	1.41	0.27	2435	RUSKIN	XP500WD	EXHAUST	ALL
L-4	30/30	1.41	0.27	2435	RUSKIN	XP500WD	INTAKE	ALL
L-5	36/20	1.04	0.12	1200	RUSKIN	XP500WD	INTAKE	ALL
L-6	36/20	1.04	0.12	1200	RUSKIN	XP500WD	EXHAUST	ALL
L-7	16/16	0.24	0.33	450	RUSKIN	XP500WD	EXHAUST	ALL

REMARKS:
1. COORDINATE EXACT MOUNTING HEIGHT AND FINISH WITH ARCHITECT.
2. FEMA 320/361 RATED LOUVER. PROVIDE WITH MOUNTING FOR STORM SHELTER ASSEMBLY. COORDINATE MOUNTING WITH STRUCTURAL.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TMS	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" CONE FACE.
B	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TMS	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" OR 12"X12" CONE FACE.
C	RETURN AIR	GRILLE	-	ALUMINUM	WHITE	TITUS	50F	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" EGGCRATE FACE.
D	SUPPLY AIR	GRILLE	-	STEEL	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1). FACE SIZE AS NOTED.
E	EXHAUST AIR	GRILLE	-	ALUMINUM	WHITE	TITUS	355FL	SURFACE MOUNT CEILING FRAME STYLE WITH A 24"X24" OR 12"X12" LOUVERED FACE WITH 35° FIXED DEFLECTION.

REMARKS:
1. DIFFUSER MOUNTING STYLE SHALL BE CONFIRMED WITH ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLAN.
2. COORDINATE DIFFUSER DISCHARGE PATTERN WITH DRAWINGS.
3. OMIT SCREW HOLES FOR LAY-IN CEILINGS.
4. PROVIDE SQUARE/RECTANGLE TO ROUND TRANSITIONS AS NEEDED.
5. COORDINATE FINISH AND LOCATION WITH ARCHITECT.
6. MOUNT SIDEWALL RETURN AND EXHAUST GRILLES WITH BLADES DIRECTED UPWARD TO PREVENT LINE OF SIGHT THROUGH GRILLE.

BASIS OF DESIGN
THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT BY AN ACCEPTABLE MANUFACTURER THAT IS NOT BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AS A PART OF THE SUBMITTAL AND/OR SHOP DRAWING AN ITEMIZED LIST OF ALL MODIFICATIONS REQUIRED TO INSTALL THE NON-BASIS OF DESIGN EQUIPMENT FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND EQUIPMENT SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST ADDRESS THE PHYSICAL CONSTRAINTS OF SPACE INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE PROJECT ANY SCOPE INCREASE BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:
- ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION, PANELS, MOTORS, ETC.
- PLUMBING MODIFICATIONS, INCLUDING DOMESTIC WATER, SANITARY, CONDENSATE, AND GAS PIPING, ETC.
- STRUCTURAL MODIFICATIONS
- CIVIL MODIFICATIONS
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS
- SPACE HEATING AND COOLING REQUIREMENTS
- EXHAUST OR VENTILATION REQUIREMENTS
- VIBRATION ISOLATION REQUIREMENTS
- CONTROLS REQUIREMENTS TO MEET SPECIFICATIONS

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN							AIR TEMPERATURE (°F)		COOLING				HEATING			REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.			ENTERING DRY BULB	ENTERING WET BULB	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	MINIMUM EER/ SEER	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	TOTAL HEAT CAPACITY (BTUH)	NUMBER OF STAGES	
					V	P	F										
DMS-A1	640	0	0.20	0.1	240	1	60	75.0	62.5	24,000	20,640	14.3/24.2	MOD	75	26,000	MOD	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY WALL-MOUNTED PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE CONDENSATE PUMP EQUAL TO ASPEN MINI WHITE. PUMP REQUIRES A SEPARATE 120V POWER SOURCE.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	HEAT CAPACITY (BTUH)	MIN COP	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
						V	PH	F		MANUFACTURER	MODEL	MCA	MOCP	
DCU-A1	24,000	105	14.3/24.2	26,000	4.35	240	1	60	DMS-A1	MITSUBISHI	PUZ-A24	19	25	ALL

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH HAIL GUARDS AND LOW AMBIENT CONTROLS.
2. PROVIDE HEAT PUMP UNIT.
3. PROVIDE WITH DISCONNECT SWITCH.

RELIEF VENT & O.A. INTAKE

MARK	CFM	MAX. S.P. (IN.WC.)	MIN. THROAT AREA (SQ. FT)	MODEL	MANUFACTURER	REMARKS
OAI-A1	2435	0.03	6	WIH	GREENHECK	ALL
RV-A1	2435	0.03	6	WIH	GREENHECK	ALL

REMARKS:
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH BIRD SCREEN.

UNIT HEATER - ELECTRIC

MARK	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHAR.			CFM	MANUFACTURER	MODEL	REMARKS
				V	P	F				
EUH-A1	10,236	3	1	240	1	60	125	REZNOR	EUH	ALL

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH UNIVERSAL MOUNTING BRACKET. MOUNT MINIMUM OF 7'-0" TO BOTTOM OF HEATER.
3. PROVIDE WITH WALL MOUNTED THERMOSTAT. MOUNT 48" ABOVE FINISHED FLOOR.

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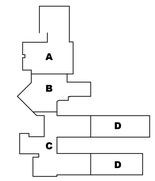
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
LICENSED
PROFESSIONAL ENGINEER
04/27/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

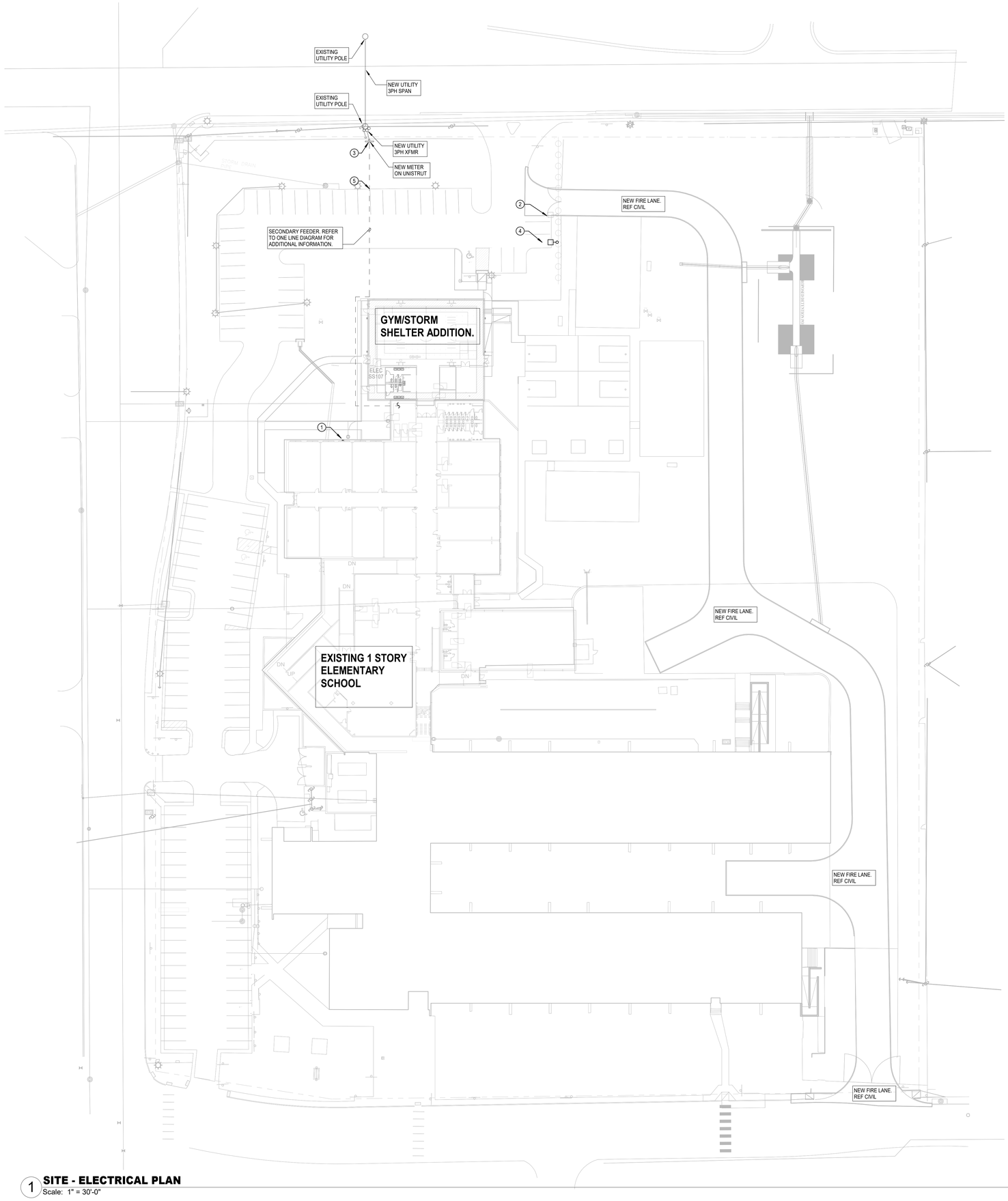
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SHEET TITLE
MECHANICAL SCHEDULES

SHEET NO.
M8.61

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Project No: 2550-02052

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1 **SITE - ELECTRICAL PLAN**
Scale: 1" = 30'-0"

Site Power General Notes

1	CONTRACTOR TO COORDINATE FINAL LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES.
2	REFER TO CIVIL DRAWINGS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3	REFER TO TECHNOLOGY DRAWINGS. DIVISION 27 AND 28 FOR TELECOMUNICATIONS PATHWAYS AND OTHER REQUIREMENTS TO BE PROVIDED BY DIVISION 26.
4	PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.
5	ALL FACILITIES INSTALLED TO SERVE THE UTILITY COMPANY SHALL BE MADE PER THE UTILITY COMPANY STANDARDS. A MINIMUM 1-FOOT VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE UTILITY COMPANY PRIMARY DUCTBANK AND ALL OTHER UTILITIES CROSSING THE DUCTBANK, A MINIMUM 5-FEETHORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE UTILITY COMPANY PRIMARY DUCTBANK AND ALL OTHER UTILITIES RUNNING PARALLEL. A MINIMUM 5-FEET SHALL BE MAINTAINED BETWEEN PRIMARY DUCTBANK TOP OF CONCRETE AND FINAL GRADE.

ELECTRICAL KEYED NOTES

1	EXISTING LIGHT FIXTURE(S) TO BE DISCONNECTED AND REMOVED. REMOVE EXISTING CONDUITS AND WIRES AS REQUIRED.
2	EXISTING SITE LIGHTING POLE BASE TO BE DEMOLISHED. EXISTING POLE AND POLE HEAD TO BE RELOCATED. BRANCH CIRCUIT TO BE REMOVED BACK TO NEAREST JUNCTION BOX DURING DEMOLITION TO FEED RELOCATED POLE FIXTURE IN NEARBY LOCATION.
3	CONTRACTOR SHALL INSTALL UTILITIES AND METER IN ACCORDANCE WITH UTILITY COMPANY AND LOCAL AHJ REQUIREMENTS. MAINTAIN REQUIRED UNDERGROUND CLEARANCES FROM WET AND DRY UTILITES, AS REQUIRED.
4	NEW LOCATION OF RELOCATED SITE LIGHTING FIXTURE AND POLE. PROVIDE NEW POLE BASE TO MATCH EXISTING. EXTEND CONDUIT AND WIRING AS NECESSARY.
5	CONTRACTOR TO BORE UNDER EXISTING CONCRETE AND VERIFY EXISTING CONDITIONS AND UTILITIES FOR ROUTING OF CONDUITS.

UTILITY CONTACT INFORMATION

NAME: RAMIRO TORRES

PHONE: 682.717.3031

EMAIL: ramiro.torres2@oncor.com

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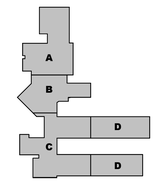
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KEY PLAN

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ELECTRICAL SITE PLAN

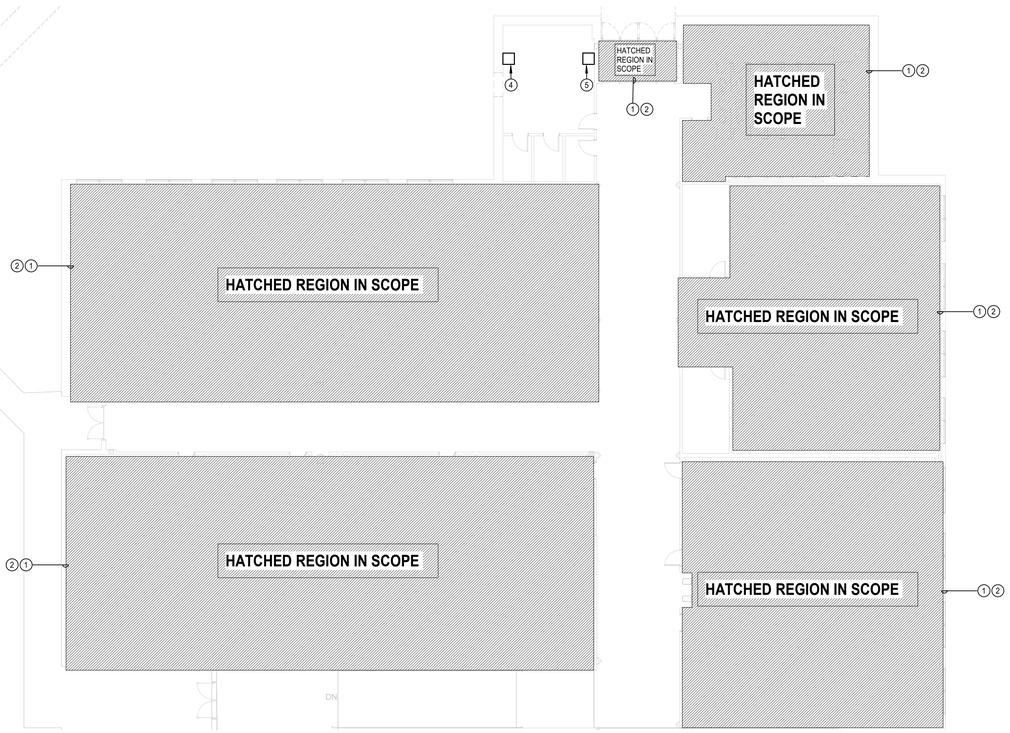
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1 POWER PLAN DEMO - UNIT A

Scale: 3/32" = 1'-0"

ELECTRICAL GENERAL DEMOLITION NOTES

1	ALL EQUIPMENT AND MATERIAL WITHIN AREAS IDENTIFIED TO BE DEMOLISHED ON ARCHITECTURAL PLANS SHALL BE DISCONNECTED AND REMOVED, UNLESS IDENTIFIED OTHERWISE. ALL EQUIPMENT AND MATERIAL DEMOLISHED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN A PROPER MANNER. ALL EQUIPMENT MATERIALS TO BE DISPOSED OF SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. IN ADDITION TO REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCIES AND/OR ANY OTHER GOVERNING AUTHORITY.
2	E.C. SHALL INCLUDE IN BID COST OF REPLACING ALL EXISTING ELECTRICAL DEVICE FACEPLATES TO MATCH NEWLY INSTALLED ELECTRICAL DEVICE FACEPLATES AND PAINT TO MATCH.
3	DURING DEMOLITION THE FIRE PROTECTION AND FIRE ALARM SYSTEMS SHALL REMAIN IN FULL OPERATING CONDITION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL INCLUDE ALL REQUIRED DESIGN, LABOR, AND MATERIALS IN ORDER TO KEEP THESE SYSTEMS FUNCTIONAL. ALL DESIGNS SHALL BE DONE BY A LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR.
4	ALL LIGHTING, SWITCHES, OUTLETS, AND OTHER ELECTRICAL DEVICES AND EQUIPMENT ARE TO REMAIN AS EXISTING UNLESS NOTED OTHERWISE.

(#) ELECTRICAL KEYED NOTES (#)

1	EXISTING LIGHTING TO BE REMOVED AND REPLACED WITH NEW LIGHTS. EXISTING CIRCUIT TO BE REUSED TO PROVIDE POWER TO NEW LIGHTS IN THIS AREA. EXTEND CONDUIT AND WIRING AS NECESSARY.
2	EXISTING CONTROLS TO BE DEMOLISHED. REMOVE CONDUIT, BACKBOX, AND WIRING BACK TO SOURCE. CONTRACTOR TO PATCH DRYWALL AS NECESSARY AND MATCH EXISTING WALL FINISH.
4	EXISTING ELECTRICAL DEVICE(S) FEEDING EMERGENCY RADIO RACK TO BE REMOVED BACK TO NEAREST JUNCTION BOX DURING DEMOLITION TO FEED NEW DEVICE(S) IN NEW CONSTRUCTION. REFER TO POWER FLOOR PLANS FOR MORE INFORMATION.
5	EXISTING ELECTRICAL DEVICE(S) FEEDING FIRE ALARM POWER SUPPLY TO BE REMOVED BACK TO NEAREST JUNCTION BOX DURING DEMOLITION TO FEED NEW DEVICE(S) IN NEW CONSTRUCTION. REFER TO POWER FLOOR PLANS FOR MORE INFORMATION.

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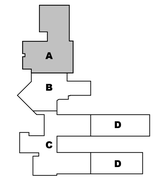
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE

UNIT A - ELECTRICAL PLAN - DEMO

SHEET NO.

E10.02

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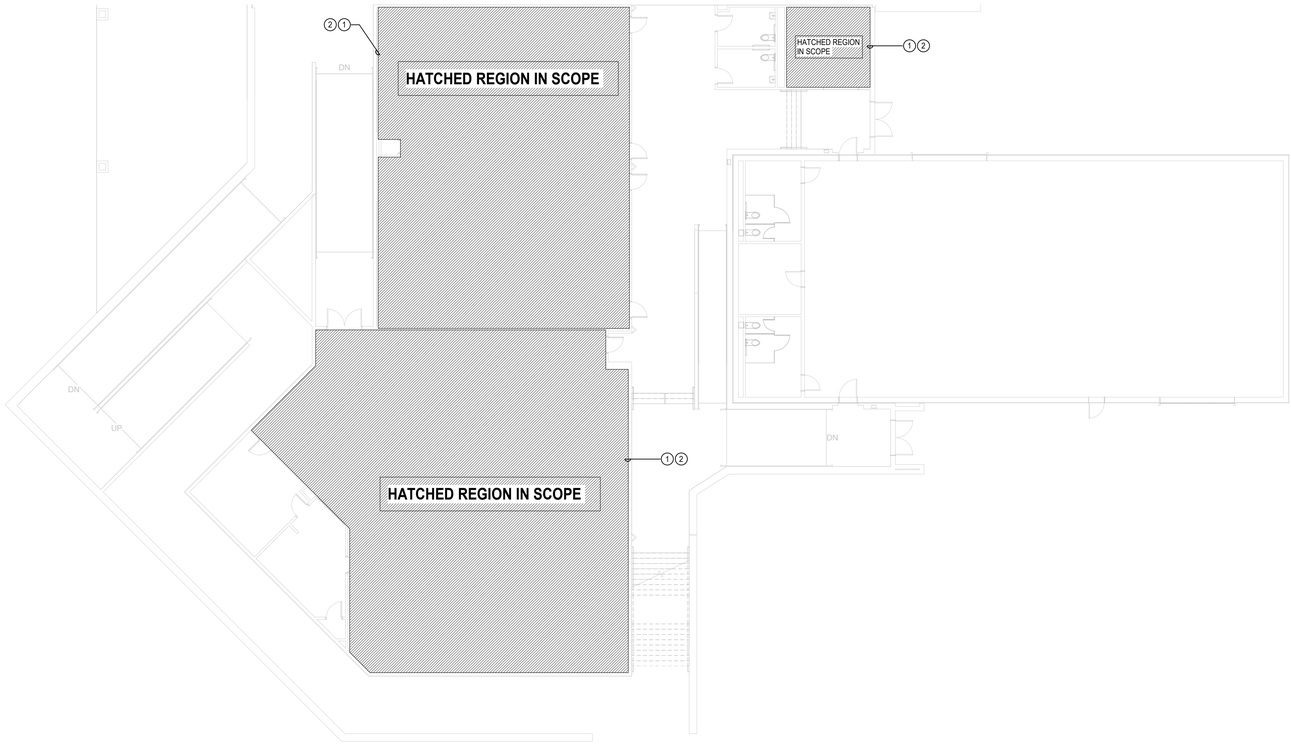
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ELECTRICAL GENERAL DEMOLITION NOTES

1	ALL EQUIPMENT AND MATERIAL WITHIN AREAS IDENTIFIED TO BE DEMOLISHED ON ARCHITECTURAL PLANS SHALL BE DISCONNECTED AND REMOVED, UNLESS IDENTIFIED OTHERWISE. ALL EQUIPMENT AND MATERIAL DEMOLISHED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN A PROPER MANNER. ALL EQUIPMENT MATERIALS TO BE DISPOSED OF SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. IN ADDITION TO REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCIES AND/OR ANY OTHER GOVERNING AUTHORITY.
2	E.C. SHALL INCLUDE IN BID COST OF REPLACING ALL EXISTING ELECTRICAL DEVICE FACEPLATES TO MATCH NEWLY INSTALLED ELECTRICAL DEVICE FACEPLATES AND PAINT TO MATCH.
3	DURING DEMOLITION THE FIRE PROTECTION AND FIRE ALARM SYSTEMS SHALL REMAIN IN FULL OPERATING CONDITION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL INCLUDE ALL REQUIRED DESIGN, LABOR, AND MATERIALS IN ORDER TO KEEP THESE SYSTEMS FUNCTIONAL. ALL DESIGNS SHALL BE DONE BY A LICENSED FIRE SPRINKLER AND FIRE ALARM CONTRACTOR.
4	ALL LIGHTING, SWITCHES, OUTLETS, AND OTHER ELECTRICAL DEVICES AND EQUIPMENT ARE TO REMAIN AS EXISTING UNLESS NOTED OTHERWISE.

ELECTRICAL KEYED NOTES

1	EXISTING LIGHTING TO BE REMOVED AND REPLACED WITH NEW LIGHTS. EXISTING CIRCUIT TO BE REUSED TO PROVIDE POWER TO NEW LIGHTS IN THIS AREA. EXTEND CONDUIT AND WIRING AS NECESSARY.
2	EXISTING CONTROLS TO BE DEMOLISHED. REMOVE CONDUIT, BACKBOX, AND WIRING BACK TO SOURCE. CONTRACTOR TO PATCH DRYWALL AS NECESSARY AND MATCH EXISTING WALL FINISH.



1 POWER PLAN DEMO - UNIT B
Scale: 3/32" = 1'-0"

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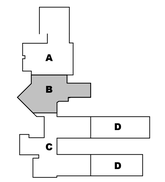
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SHEET TITLE

UNIT B - ELECTRICAL PLAN - DEMO

SHEET NO.

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(#) ELECTRICAL KEYED NOTES (#)

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2	EXISTING CONTROLS TO BE DEMOLISHED. REMOVE CONDUIT, BACKBOX, AND WIRING BACK TO SOURCE. CONTRACTOR TO PATCH DRYWALL AS NECESSARY AND MATCH EXISTING WALL FINISH.



1 POWER PLAN DEMO - UNIT C
Scale: 3/32" = 1'-0"

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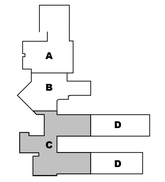
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STATE OF TEXAS
KEITH W. GASSMAN
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04/27/2026



KEY PLAN

REVISION

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SHEET TITLE

UNIT C - ELECTRICAL PLAN - DEMO

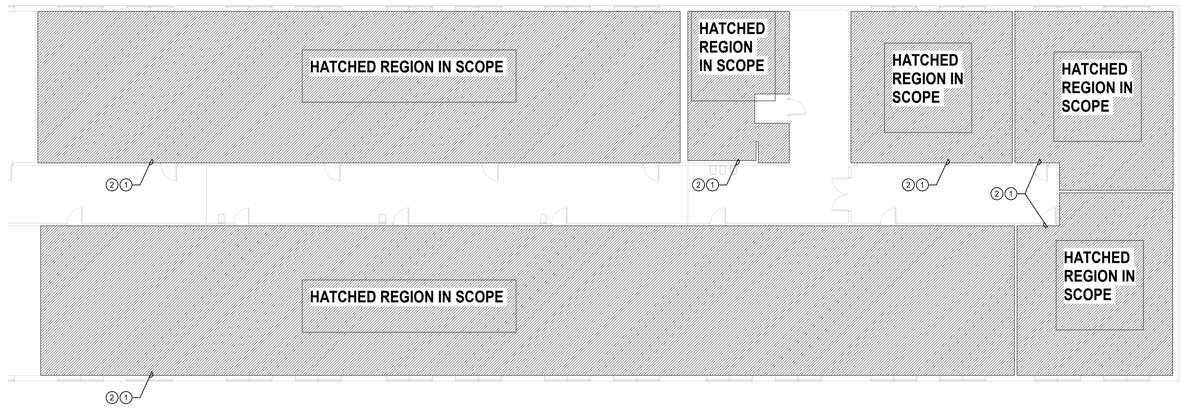
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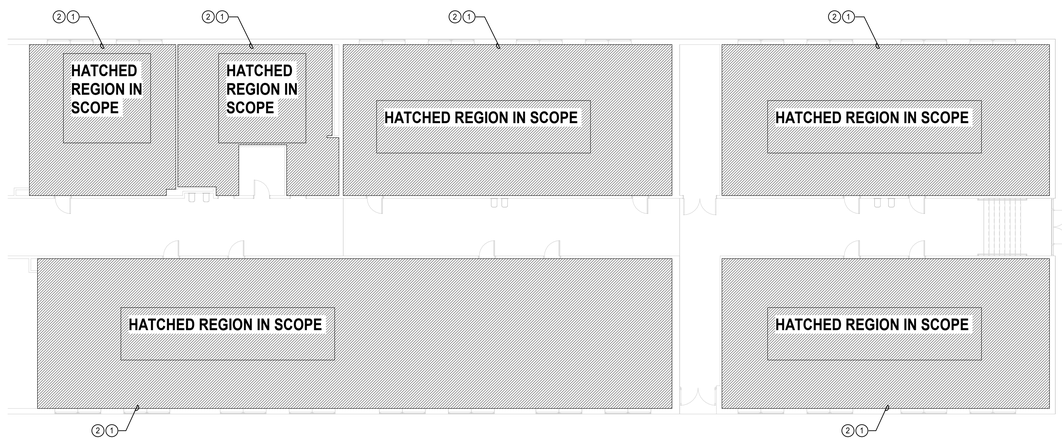
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1 POWER PLAN DEMO - UNIT D

Scale: 3/32" = 1'-0"

ELECTRICAL GENERAL DEMOLITION NOTES

1	ALL EQUIPMENT AND MATERIAL WITHIN AREAS IDENTIFIED TO BE DEMOLISHED ON ARCHITECTURAL PLANS SHALL BE DISCONNECTED AND REMOVED, UNLESS IDENTIFIED OTHERWISE. ALL EQUIPMENT AND MATERIAL DEMOLISHED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN A PROPER MANNER. ALL EQUIPMENT MATERIALS TO BE DISPOSED OF SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. IN ADDITION TO REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AGENCIES AND/OR ANY OTHER GOVERNING AUTHORITY.
2	E.C. SHALL INCLUDE IN BID COST OF REPLACING ALL EXISTING ELECTRICAL DEVICE FACEPLATES TO MATCH NEWLY INSTALLED ELECTRICAL DEVICE FACEPLATES AND PAINT TO MATCH.
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ELECTRICAL KEYED NOTES

1	EXISTING LIGHTING TO BE REMOVED AND REPLACED WITH NEW LIGHTS. EXISTING CIRCUIT TO BE REUSED TO PROVIDE POWER TO NEW LIGHTS IN THIS AREA. EXTEND CONDUIT AND WIRING AS NECESSARY.
2	EXISTING CONTROLS TO BE DEMOLISHED. REMOVE CONDUIT, BACKBOX, AND WIRING BACK TO SOURCE. CONTRACTOR TO PATCH DRYWALL AS NECESSARY AND MATCH EXISTING WALL FINISH.

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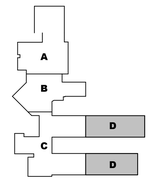
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

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BID SET

SHEET TITLE

UNIT D - ELECTRICAL PLAN - DEMO

SHEET NO.

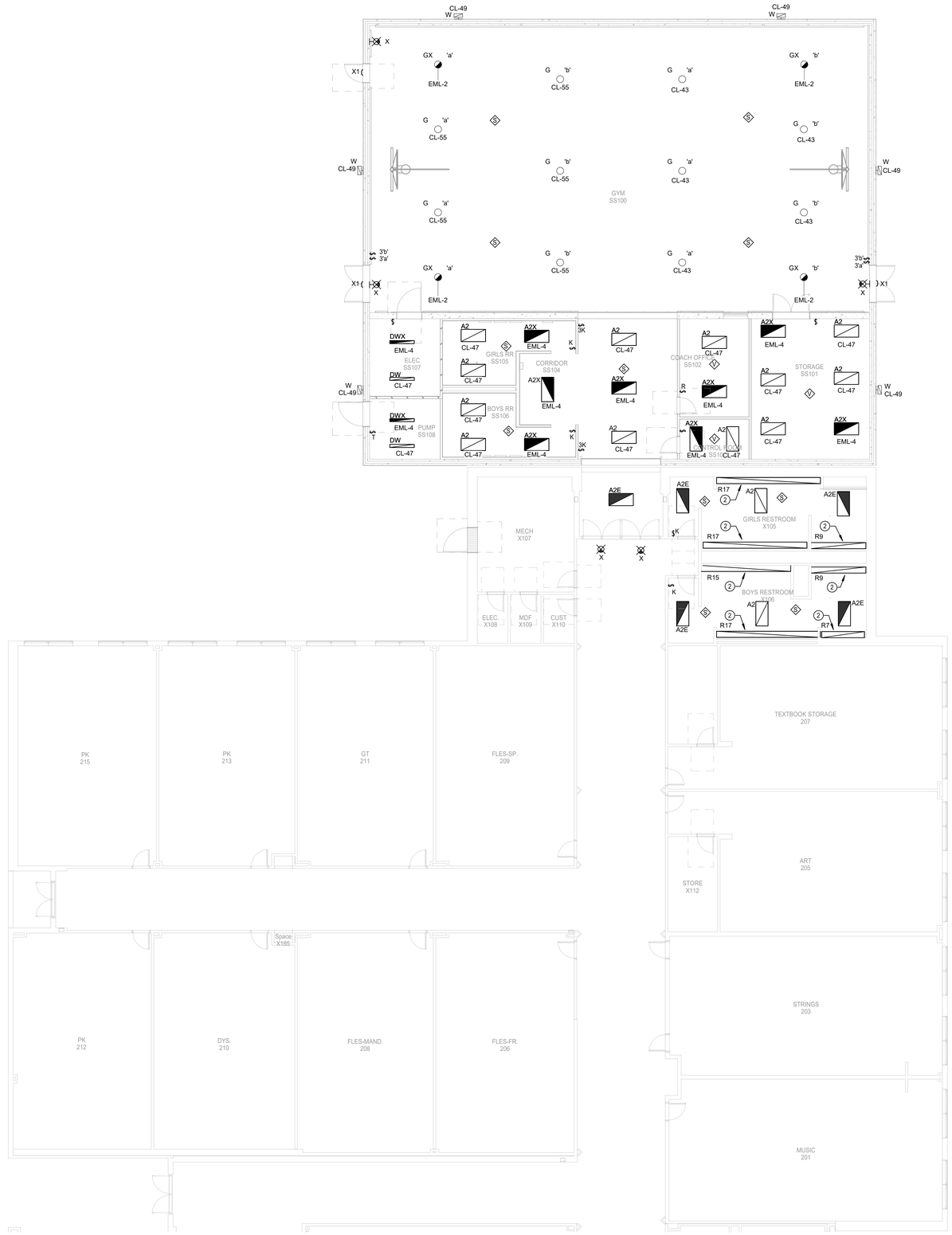
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Irving, TX 75062

Registration: F-4111
Project No: 2550-02052

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PLOT DATE: 12/29/2025 11:31:32 AM TEMPLATE VERSION: 23.0.4



1 **LIGHTING PLAN - UNIT A**
Scale: 1/8" = 1'-0"

STORM SHELTER GENERAL NOTES

1	DO NOT PENETRATE STORM SHELTER WALLS WITH ELECTRICAL CONDUITS. ALL ELECTRICAL CONDUITS SHALL BE ROUTED UNDERGROUND AND CONCEALED WITHIN WALLS. DO NOT INSTALL SURFACE MOUNT EXPOSED CONDUIT.
2	WALL PENETRATIONS FOR EXTERIOR LUMINAIRES AND RECEPTACLES SHALL NOT EXCEED 2" DIAMETER AND SHALL BE SPACED A MINIMUM OF 18" APART.
3	EMERGENCY INVERTER SHALL PROVIDE POWER TO DESIGNATED LUMINAIRES, EXIT LIGHTS, RECEPTACLES, LOUVERS, AND VENTILATION FANS FOR A MINIMUM OF 2 HOURS. REFER TO ONE LINE DIAGRAM AND INVERTER PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
4	PROVIDE ADDITIONAL GROUNDING ROD CONNECTED TO BUILDING STEEL AT EMERGENCY INVERTER.
5	JUNCTION BOXES SHALL NOT BE INSTALLED WITHIN 4" OF ANY WALL OPENINGS.

LIGHTING GENERAL NOTES

1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2	ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
3	CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE. PROVIDE POWER VIA NEAREST LIGHTING CIRCUIT NOT TO EXCEED 16A.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5	REFER TO SHEETS 10.51 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTACTOR SCHEDULE.
6	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
7	ELECTRICAL CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL SYSTEMS.
8	PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
9	ALL CLASSROOMS AND SPACES DO NOT REQUIRE DAYLIGHT HARVESTING CONTROLS, UNLESS NOTED ON PLAN, PER 2021 IECC C405.2.3 WATTAGE REQUIREMENT.
10	CORRIDOR LIGHTING DOES NOT REQUIRE DAYLIGHT HARVESTING CONTROLS PER 2021 IECC C405.2 REGARDING EXIT PASSAGEWAYS AND SAFETY/SECURITY REQUIREMENTS.
11	LOWER CASE LETTER INDICATES SWITCHING SCHEME.
12	ALL ABOVE CEILING POWER PACKS AND NECESSARY ROOM CONTROLLERS TO BE MOUNTED ABOVE ROOM DOORS REGARDLESS OF SCHEMATIC DESIGN SHOWN ON FLOOR PLANS. E.C. SHALL ENSURE INSTALLATION OF ALL POWER PACKS AND NECESSARY ROOM CONTROLLERS OCCUR ABOVE ROOM DOORS.
13	CONTRACTOR TO COORDINATE CONDUIT AND JUNCTION BOX PENETRATIONS AND ALL IN-WALL CONDUIT ROUTINGS IN BUILDING ENVELOPE WITH PRE-CAST WALL MANUFACTURER.

ELECTRICAL KEYED NOTES

2	PROVIDE EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL AND CONFIRM COVE DIMENSIONS PRIOR TO ORDERING FROM MANUFACTURER. INSTALL SHEET AFFIXED TO COVE TO MATCH EXISTING AND SURFACE MOUNT LUMINAIRE ABOVE.

ICC-500-2020 STORM SHELTER CODE COMPLIANCE CHART

STORM SHELTER TYPE	COMMUNITY TORNADO SHELTER (EVENT TIME - MINIMUM 2 HOURS)
SHELTER DESIGN OCCUPANCY	487 PEOPLE
SANITATION REQUIREMENTS: 1. WATER SUPPLY 2. SANITARY SEWER 3. TOILET FACILITIES REQUIRED = 2 MINIMUM FOR FIRST 500 OCCUPANTS + 1 PER ADDITIONAL 500 OCCUPANTS. 4. HANDWASHING FACILITIES REQUIRED: 1 PER 1000 OCCUPANTS.	 DEDICATED UNDERGROUND SERVICE; REFER TO PLUMBING DRAWINGS DEDICATED UNDERGROUND SERVICE; REFER TO PLUMBING DRAWINGS 2 REQUIRED; 5 WATER CLOSETS AND 1 URINALS PROVIDED; REFER TO PLUMBING DRAWINGS. 1 REQUIRED; 6 PROVIDED; REFER TO PLUMBING DRAWINGS.
FIRE PROTECTION SYSTEM REQUIREMENTS	FIRE EXTINGUISHERS FURNISHED AS AN ALLOWED OPTION; REFER TO ARCHITECTURAL DRAWINGS.
EMERGENCY LIGHTING: MINIMUM TWO (2) HOURS OF OPERATION REQUIRED AT A MINIMUM OF 1 FOOT CANDLE (11 LUX).	NORMAL LED LIGHTING FIXTURES SERVED BY A TWO (2) HOUR RATED INVERTER (BATTERY) SYSTEM TO MEET THIS REQUIREMENT. REFER TO ELECTRICAL DRAWINGS.
VENTILATION REQUIREMENTS: MECHANICAL VENTILATION OPTION USED WHICH REQUIRES THE MINIMUM MECHANICAL VENTILATION RATE OF REQUIRED OUTDOOR AIR OF 5 CUBIC FEET PER MINUTE PER OCCUPANT FOR THE DESIGN CAPACITY.	2,435 CFM REQUIRED; A SUPPLY FAN SIZED FOR 2,435 CFM AND OPEN TO SPACE FOR DISTRIBUTION; REFER TO MECHANICAL DRAWINGS. MECHANICAL VENTILATION FAN SERVED BY A TWO (2) HOUR RATED INVERTER (BATTERY) SYSTEM TO MEET THIS REQUIREMENT; REFER TO ELECTRICAL DRAWINGS.
FIRE RATED WALLS: SHELTER ENCLOSURE REQUIRED TO HAVE 2-HOUR FIRE RATED ENCLOSURE.	ALL PENETRATIONS TO ADJACENT SPACES HAVE 2-HOUR RATED FIRE DAMPERS SHOWN TO MEET THIS REQUIREMENT. NONE EXIST IN THE SHELTER.
PENETRATIONS: ALL RECTANGULAR OPENINGS LARGER THAN 3-1/2 SQUARE INCHES AND ROUND OPENINGS LARGER THAN 2-1/16" DIAMETER REQUIRE PROTTECTION.	FEMA 320/361 RATED LOUVER AND STORM RATED BAFFLES PROVIDED WHERE REQUIRED; REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS.

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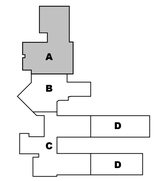
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT A - LIGHTING PLAN

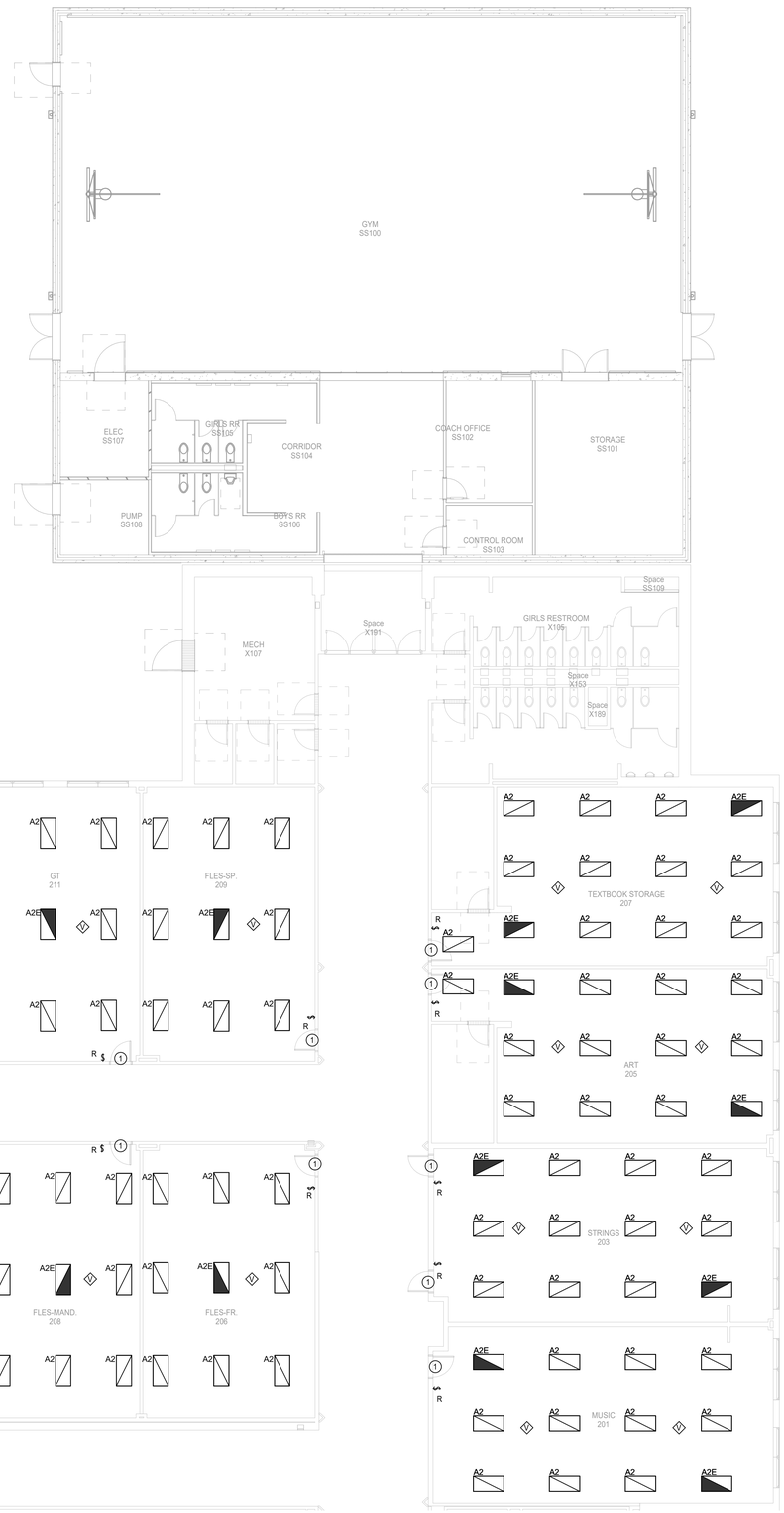
SHEET NO.
E10.10

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Registration: F-4111
Project No: 2550-02052

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1 **LIGHTING PLAN - UNIT A - ALTERNATE 03**
Scale: 1/8" = 1'-0"

LIGHTING GENERAL NOTES

1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2	ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
3	CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE. PROVIDE POWER VIA NEAREST LIGHTING CIRCUIT NOT TO EXCEED 16A.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5	REFER TO SHEETS 10.51 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTACTOR SCHEDULE.
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9	ALL CLASSROOMS AND SPACES DO NOT REQUIRE DAYLIGHT HARVESTING CONTROLS, UNLESS NOTED ON PLAN, PER 2021 IECC C405.2.3 WATTAGE REQUIREMENT.
10	CORRIDOR LIGHTING DOES NOT REQUIRE DAYLIGHT HARVESTING CONTROLS PER 2021 IECC C405.2 REGARDING EXIT PASSAGEWAYS AND SAFETY/SECURITY REQUIREMENTS.
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ELECTRICAL KEYED NOTES

1	PROVIDE POWER TO NEW LIGHT FIXTURES FROM EXISTING LIGHTING CIRCUITS IN THIS AREA. CONTRACTOR TO VERIFY THAT CIRCUIT AMPACITY ON THE EXISTING CIRCUIT DOES NOT EXCEED 16 AMPS. EXTEND CONDUIT AND WIRING AS NECESSARY.

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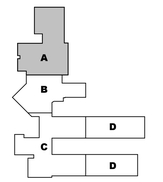
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SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
LICENSED
04/27/2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005
DATE
04/27/2026
ISSUE
BID SET

SHEET TITLE
UNIT A - LIGHTING PLAN - ALT 03

SHEET NO.
E10.11

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LIGHTING GENERAL NOTES

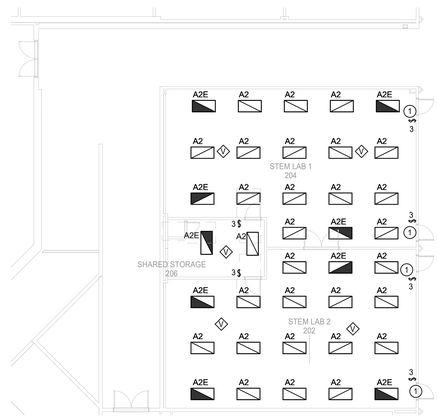
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ⓗ ELECTRICAL KEYED NOTES ⓗ

1	PROVIDE POWER TO NEW LIGHT FIXTURES FROM EXISTING LIGHTING CIRCUITS IN THIS AREA. CONTRACTOR TO VERIFY THAT CIRCUIT AMPACITY ON THE EXISTING CIRCUIT DOES NOT EXCEED 16 AMPS. EXTEND CONDUIT AND WIRING AS NECESSARY.
2	PROVIDE EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL AND CONFIRM COVE DIMENSIONS PRIOR TO ORDERING FROM MANUFACTURER. INSTALL SHEET AFFIXED TO COVE TO MATCH EXISTING AND SURFACE MOUNT LUMINAIRE ABOVE.



2 LIGHTING PLAN - UNIT B - ALTERNATE 02
Scale: 3/32" = 1'-0"



3 LIGHTING PLAN - UNIT B - ALTERNATE 03
Scale: 3/32" = 1'-0"



1 LIGHTING PLAN - UNIT B
Scale: 3/32" = 1'-0"

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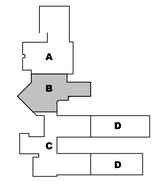
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT B - LIGHTING PLAN

SHEET NO.
E10.12

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Registration: F-4111
Project No: 2550-02052

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1 LIGHTING PLAN - UNIT C

Scale: 3/32" = 1'-0"

LIGHTING GENERAL NOTES

1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
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3	CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE. PROVIDE POWER VIA NEAREST LIGHTING CIRCUIT NOT TO EXCEED 16A.
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⑯ ELECTRICAL KEYED NOTES ⑯

1	PROVIDE POWER TO NEW LIGHT FIXTURES FROM EXISTING LIGHTING CIRCUITS IN THIS AREA. CONTRACTOR TO VERIFY THAT CIRCUIT AMPACITY ON THE EXISTING CIRCUIT DOES NOT EXCEED 16 AMPS. EXTEND CONDUIT AND WIRING AS NECESSARY.

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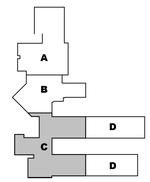
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SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
LICENSED
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT C - LIGHTING PLAN

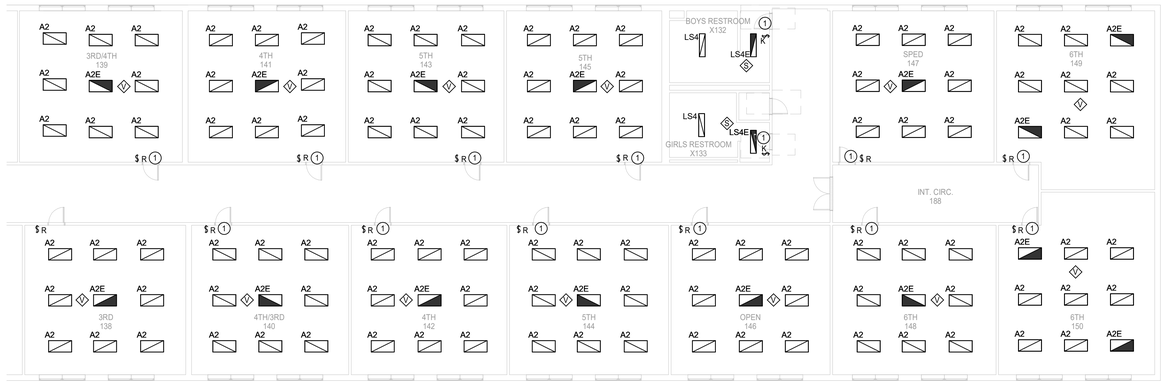
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E10.13

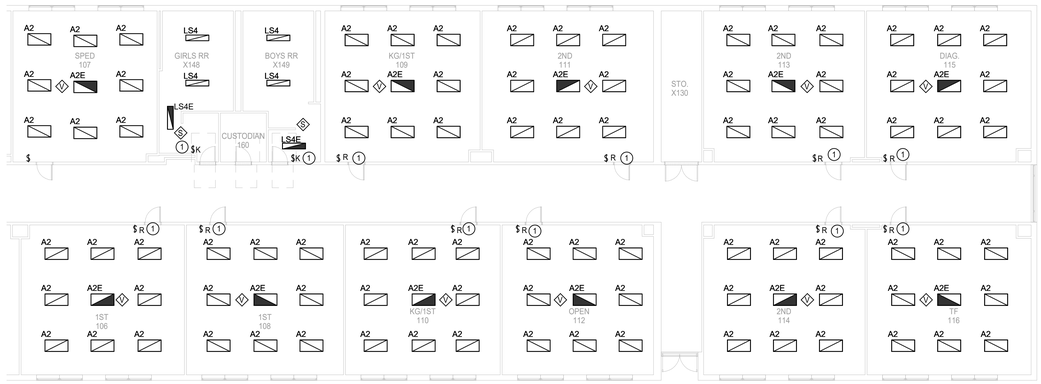
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1 LIGHTING PLAN - UNIT D

Scale: 3/32" = 1'-0"

LIGHTING GENERAL NOTES

1	PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2	ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
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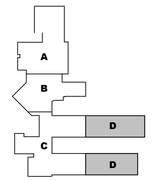
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SEAL & SIGNATURE





KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE

UNIT D - LIGHTING PLAN

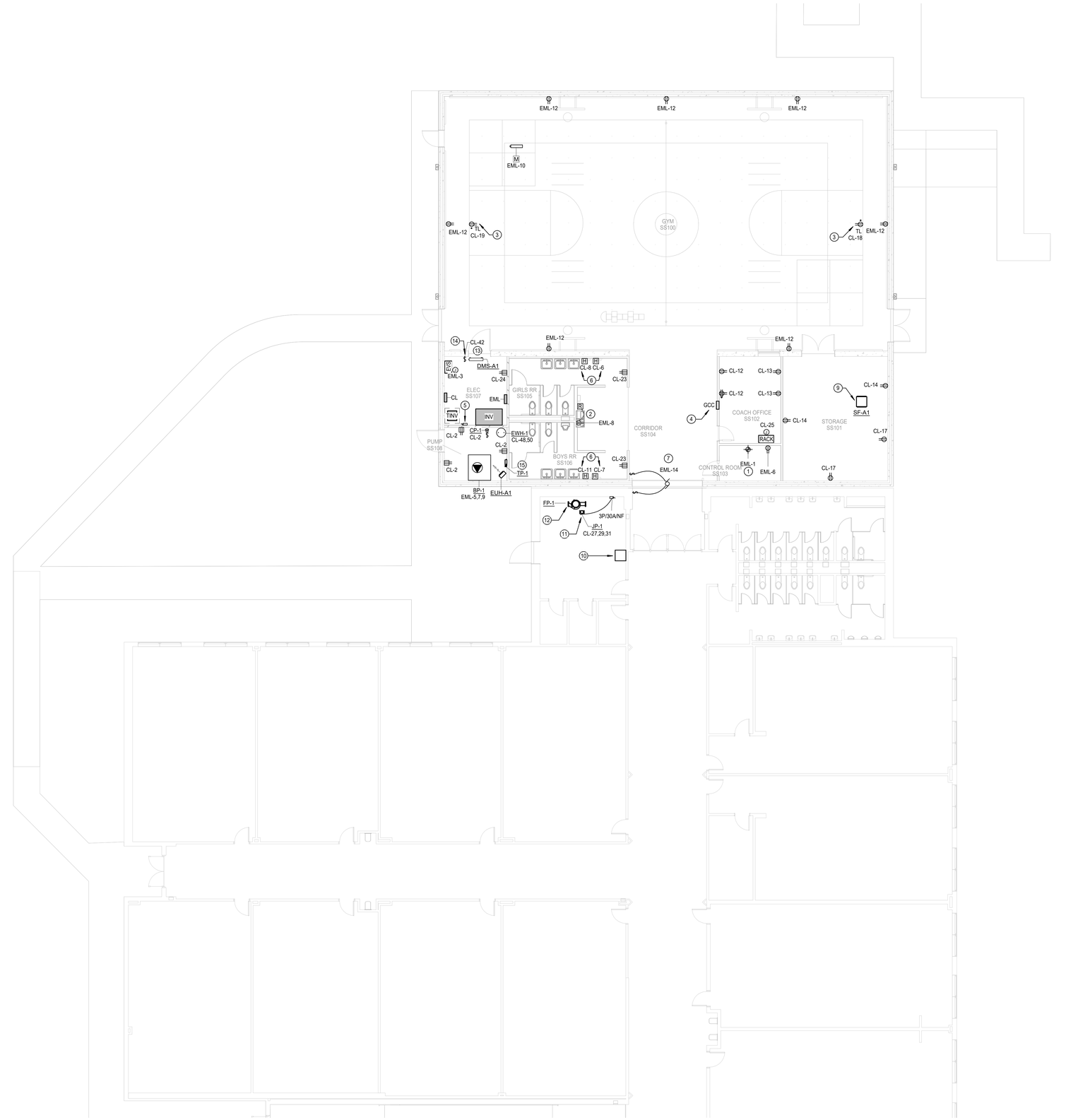
SHEET NO.

E10.14

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Registration: F-4111
Project No: 2550-02052

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1 **POWER PLAN - UNIT A**
Scale: 1/8" = 1'-0"

POWER GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
2	CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
3	CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4	ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
5	CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
6	ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
7	CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8	ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN -USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.

STORM SHELTER GENERAL NOTES

1	DO NOT PENETRATE STORM SHELTER WALLS WITH ELECTRICAL CONDUITS. ALL ELECTRICAL CONDUITS SHALL BE ROUTED UNDERGROUND AND CONCEALED WITHIN WALLS. DO NOT INSTALL SURFACE MOUNT EXPOSED CONDUIT.
2	WALL PENETRATIONS FOR EXTERIOR LUMINAIRES AND RECEPTACLES SHALL NOT EXCEED 2" DIAMETER AND SHALL BE SPACED A MINIMUM OF 18" APART.
3	EMERGENCY INVERTER SHALL PROVIDE POWER TO DESIGNATED LUMINAIRES, EXIT LIGHTS, RECEPTACLES, LOUVERS, AND VENTILATION FANS FOR A MINIMUM OF 2 HOURS. REFER TO ONE LINE DIAGRAM AND INVERTER PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
4	PROVIDE ADDITIONAL GROUNDING ROD CONNECTED TO BUILDING STEEL AT EMERGENCY INVERTER.
5	JUNCTION BOXES SHALL NOT BE INSTALLED WITHIN 4" OF ANY WALL OPENINGS.

ELECTRICAL KEYED NOTES

1	STORM SHELTER CONTROL PANEL AND CONTROL CIRCUIT. REFER TO STORM SHELTER CONTROLS DETAIL FOR MORE INFORMATION.
2	PROVIDE FLUSH MOUNTED REMOTE GFCI DEVICE ADJACENT TO DRINKING FOUNTAIN CABINET. PROVIDE POWER PER MANUFACTURER REQUIREMENTS FOR EXACT ELECTRICAL ROUGH-IN LOCATIONS AND RECEPTACLE QUANTITIES. REFER TO DRINK FOUNTAIN DETAIL FOR ADDITIONAL INFORMATION.
3	PROVIDE 120V, 1 PHASE RECEPTACLE FOR MOTORIZED BASKETBALL GOAL. VERIFY EXACT LOCATION OF MOTOR WITH GOAL VENDOR. PROVIDE ALL CONDUITS AND WIRING AS REQUIRED BY VENDOR. PROVIDE TWIST LOCK RECEPTACLE AND CORD CAP TO MATCH. MOTORIZED GOALS TO BE CONTROLLED FROM CONTROL CABINET LOCATION IN THIS SPACE. ALL CONDUITS TO BE RUN IN JOIST SPACE.
4	PROVIDE COMPETITION GYM RECESSED CONTROL CABINET WITH LOCKABLE COVER. REFER TO COMPETITION GYM CONTROL CABINET DETAIL FOR ADDITIONAL INFORMATION.
5	PROVIDE 100A/3P/70AF DISCONNECT. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
6	FIELD VERIFY EXACT LOCATION OF ELECTRIC HAND DRYER WITH ARCHITECT PRIOR TO ROUGH-IN. MAKE FINAL CONNECTION AS REQUIRED AND PROVIDE GFCI BREAKER.
7	PROVIDE POWER AND "OPEN-CLOSE-STOP" KEY OPERATED SWITCH FOR OVERHEAD COIL DOOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DOOR MANUFACTURER AND ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN.
9	REFER TO STORM SHELTER CONTROLS DETAIL ON SHEET E10.52 FOR MORE INFORMATION.
10	PROVIDE POWER TO NEW FIRE ALARM POWER SUPPLY FROM NEAREST BRANCH CIRCUIT. REFER TO TECHNOLOGY DRAWINGS FOR MORE INFORMATION.
11	PROVIDE POWER FOR JOCKEY PUMP AND FIRE PUMP CONTROLLERS AS REQUIRED BY MANUFACTURER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH FIRE ALARM CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN.
12	REFER TO ONE LINE DIAGRAM FOR ADDITIONAL FIRE PUMP INFORMATION.
13	PROVIDE POWER TO DUCTLESS MINI-SPLIT UNIT FROM ROOF TOP MOUNTED CONDENSING UNIT. PROVIDE ADDITIONAL 3/4" CONDUIT WITH PULL WIRE FOR CONTROL WIRING. COORDINATE EXACT REQUIREMENTS FOR CONTROLS WITH MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE LOCAL MEANS OF DISCONNECT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
14	POWER FOR CONDENSATE PUMP. SWITCH TO BE PROVIDED FOR AS MEANS OF DISCONNECT.
15	ELECTRIC TRAP PRIMER. E.C. SHALL CONNECT TRAP PRIMER TO NEAREST 120V CIRCUIT.

MECHANICAL EQUIPMENT SCHEDULE

TAG	CIRCUIT	BREAKER	DISCONNECT	REMARKS
EUH-A1	CL-44,46	2P/20A	2P/20A	C
SF-A1	EML-11	1P/20A	1P/20A	C

A DISCONNECT IS FURNISHED WITH UNIT.
B GFCI RECEPTACLE IS FURNISHED WITH UNIT AND POWERED AS SHOWN ON PLAN.
C DISCONNECT TO BE WEATHERPROOF MOTOR-RATED SWITCH.
D OUTDOOR UNIT OF MINI-SPLIT SYSTEM TO POWER INDOOR UNIT. REFER TO INDOOR FLOOR PLANS FOR ADDITIONAL INFORMATION.

ICC-500-2020 STORM SHELTER CODE COMPLIANCE CHART

STORM SHELTER TYPE	COMMUNITY TORNADO SHELTER (EVENT TIME - MINIMUM 2 HOURS)
SHELTER DESIGN OCCUPANCY	487 PEOPLE
SANITATION REQUIREMENTS:	
1. WATER SUPPLY	DEDICATED UNDERGROUND SERVICE; REFER TO PLUMBING DRAWINGS
2. SANITARY SEWER	DEDICATED UNDERGROUND SERVICE; REFER TO PLUMBING DRAWINGS
3. TOILET FACILITIES REQUIRED = 2 MINIMUM FOR FIRST 500 OCCUPANTS + 1 PER ADDITIONAL 500 OCCUPANTS.	2 REQUIRED; 5 WATER CLOSETS AND 1 URINALS PROVIDED; REFER TO PLUMBING DRAWINGS.
4. HANDWASHING FACILITIES REQUIRED: 1 PER 1000 OCCUPANTS.	1 REQUIRED; 6 PROVIDED; REFER TO PLUMBING DRAWINGS.
FIRE PROTECTION SYSTEM REQUIREMENTS	FIRE EXTINGUISHERS FURNISHED AS AN ALLOWED OPTION; REFER TO ARCHITECTURAL DRAWINGS.
EMERGENCY LIGHTING: MINIMUM TWO (2) HOURS OF OPERATION REQUIRED AT A MINIMUM OF 1 FOOT CANDLE (11 LUX).	NORMAL LED LIGHTING FIXTURES SERVED BY A TWO (2) HOUR RATED INVERTER (BATTERY) SYSTEM TO MEET THIS REQUIREMENT. REFER TO ELECTRICAL DRAWINGS.
VENTILATION REQUIREMENTS: MECHANICAL VENTILATION OPTION USED WHICH REQUIRES THE MINIMUM MECHANICAL VENTILATION RATE OF REQUIRED OUTDOOR AIR OF 5 CUBIC FEET PER MINUTE PER OCCUPANT FOR THE DESIGN CAPACITY.	2,435 CFM REQUIRED; A SUPPLY FAN SIZED FOR 2,435 CFM AND OPEN TO SPACE FOR DISTRIBUTION; REFER TO MECHANICAL DRAWINGS. MECHANICAL VENTILATION FAN SERVED BY A TWO (2) HOUR RATED INVERTER (BATTERY) SYSTEM TO MEET THIS REQUIREMENT; REFER TO ELECTRICAL DRAWINGS.
FIRE RATED WALLS: SHELTER ENCLOSURE REQUIRED TO HAVE 2-HOUR FIRE RATED ENCLOSURE.	ALL PENETRATIONS TO ADJACENT SPACES HAVE 2-HOUR RATED FIRE DAMPERS SHOWN TO MEET THIS REQUIREMENT. NONE EXIST IN THE SHELTER.
PENETRATIONS: ALL RECTANGULAR OPENINGS LARGER THAN 3-1/2 SQUARE INCHES AND ROUND OPENINGS LARGER THAN 2-1/16" DIAMETER REQUIRE PROTTECTION.	FEMA 320/361 RATED LOUVER AND STORM RATED BAFFLES PROVIDED WHERE REQUIRED; REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS.

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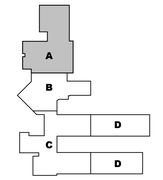
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STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005
DATE
04/27/2026
ISSUE
BID SET

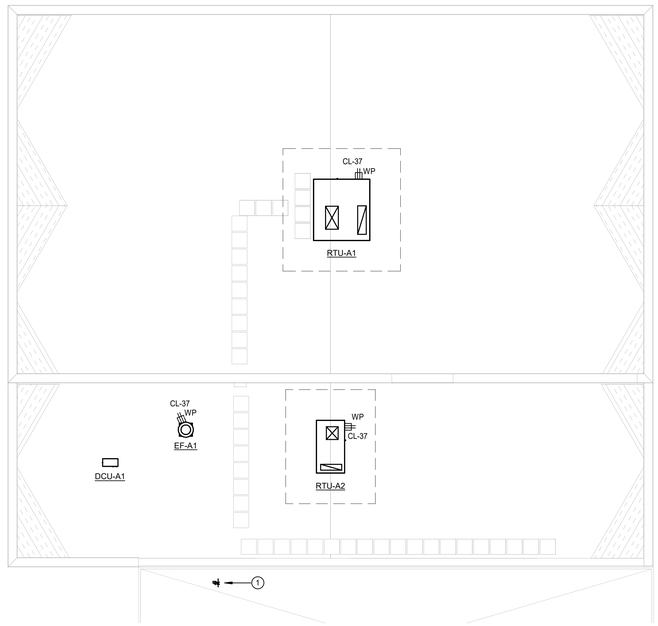
SHEET TITLE
UNIT A - POWER PLAN

SHEET NO.
E10.20

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Project No: 2550-02052

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PLOT DATE: 12/26/2025 11:31:32 AM TEMPLATE VERSION: 23.0.4



1 R1 - EQUIPMENT POWER PLAN - UNIT A

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

GENERAL ROOFTOP NOTES

1	ALL EQUIPMENT SHOWN IS TO BE MOUNTED ON ROOF. REFER TO ROOFTOP MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ALL CIRCUIT INFORMATION, DISCONNECT SIZING, AND NEMA RATINGS OF EQUIPMENT. E.C. SHALL PROVIDE AND INSTALL ALL NECESSARY EQUIPMENT FOR A FULLY FUNCTIONING SYSTEM. LOCATION OF DISCONNECT IS TO BE DETERMINED BY E.C. IN COMPLIANCE WITH ALL NEC AND IBC CODE REGULATIONS FOR ROOFTOP EQUIPMENT. FOR ADDITIONAL INFORMATION ON ROOFTOP EQUIPMENT, REFER TO MECHANICAL SCHEDULES ON SHEET 8.61.
2	ALL RECEPTACLES SHOWN ARE SCHEMATIC BY DESIGN. E.C. SHALL POWER RECEPTACLES VIA INDICATED CIRCUIT. E.C. SHALL ENSURE ALL EQUIPMENT IS WITHIN 25' - 0" OF A CONVENIENCE OUTLET PRIOR TO BID.

(#) ELECTRICAL KEYED NOTES (#)

1	REFER TO STORM SHELTER CONTROLS DETAIL ON SHEET E10.52 FOR MORE INFORMATION ON GAS SHUT OFF VALVE CONTROL.

MECHANICAL EQUIPMENT SCHEDULE

TAG	CIRCUIT	BREAKER	DISCONNECT	REMARKS
DCU-A1	CL-39,41	2P/25A	2P/30A/NF/WP	D
EF-A1	CL-35	1P/20A	1P/20A/NF/WP	C
RTU-A1	CL-26,28,30	3P/110A	3P/200A/NF/WP	A,B
RTU-A2	CL-32,34,36	3P/30A	3P/30A/NF/WP	A,B

A DISCONNECT IS FURNISHED WITH UNIT.
B GFCI RECEPTACLE IS FURNISHED WITH UNIT AND POWERED AS SHOWN ON PLAN.
C DISCONNECT TO BE WEATHERPROOF MOTOR-RATED SWITCH.
D OUTDOOR UNIT OF MINI-SPLIT SYSTEM TO POWER INDOOR UNIT. REFER TO INDOOR FLOOR PLANS FOR ADDITIONAL INFORMATION.

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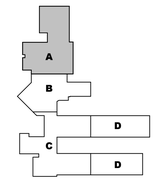
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE

UNIT A - ELECTRICAL PLAN - ROOF

SHEET NO.

E10.30

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SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EMERGENCY BUGEYE LIGHT FIXTURE
SWITCHES	LINE VOLTAGE SINGLE POLE SWITCH
$	
$2	LINE VOLTAGE 2-POLE SWITCH
$3	LINE VOLTAGE 3-WAY SWITCH
$4	LINE VOLTAGE 4-WAY SWITCH
$K	LINE VOLTAGE KEYED SWITCH
$3K	LINE VOLTAGE KEYED 3-WAY SWITCH
$D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. MANUAL ON / AUTO OFF.
$OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR. AUTO ON / AUTO OFF.
$P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
$MC	MOMENTARY CONTACT SWITCH
B	PUSH BUTTON
$TH	6-HOUR TIMER SWITCH WITH HOLD
$T	6-HOUR TIMER SWITCH WITH NO HOLD
G	20 AMP GENERATOR TRANSFER DEVICE
LOW VOLTAGE LIGHTING CONTROLS	
$R	LOW VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
$B	BMCS TIMER LOCAL OVERRIDE SWITCH
P	CEILING MOUNTED PHOTO SENSOR
V	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF
S	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON / AUTO OFF
R	LIGHTING CONTROLLER WITH GTD. ZONES AS REQUIRED.
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR CONCEALED SERVICE DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR CONCEALED SERVICE DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
R	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
ANNC	FIRE ALARM REMOTE ANNUCIATOR
T	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
MOTOR CONTROLLERS AND EQUIPMENT	
	MOTOR, MAKE FINAL MOTOR CONNECTION
	3-PHASE MOTOR, MAKE FINAL MOTOR CONNECTION
	DISCONNECT SWITCH AS REQUIRED
	FUSED DISCONNECT SWITCH AS REQUIRED
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
	INDICATES WALL MOUNTED DEVICE
SM	SURFACE MOUNTED RACEWAY
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:

-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE PROPOSAL SHALL INCLUDE MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A PROPOSAL WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ACCEPTED.

BUILDING CODES LIST

PROJECT IS DESIGNED TO COMPLY WITH 2021 INTERNATIONAL BUILDING CODE, 2020 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE, 2020 ICC 500, AND IN ACCORDANCE WITH ALL STATE AND LOCAL AMENDMENTS. ALL INSTALLATIONS TO COMPLY WITH LATEST CODES.

FIRE DETECTION AND FIRE ALARM NOTE:

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III, IN THE SUB FIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLIGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, LOCAL AND STATE CODE REQUIREMENTS. FURNISH AND INSTALL ALL REQUIRED FIRE ALARM DEVICES, AS REQUIRED BY CODE. VERIFY EXACT REQUIREMENTS IN THE FIELD. COORDINATE ALL LOCATIONS WITH DRAWINGS APPROVED BY AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. ALL WORK SHALL BE INCLUDED WTHIN BASE BID.

LIGHTING FIXTURE SCHEDULE NOTES

1	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2	ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4	UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5	ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6	EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7	LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8	FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9	ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.
10	THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11	WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12	FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13	ALL EXTERIOR LIGHT FIXTURES RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET LOCATION. WHERE SPECIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTECTED BY THE BUILDING STRUCTURE FROM FALLING OR WIND DRIVEN RAIN OR SNOW, THEY MAY BE EITHER DAMP OR WET LOCATION LISTED.
14	ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	Count	REMARKS
A2	RAB	T34FA-2'X4'	RECESSED	5025L LED	5000 K	84	120	40 W	481	2'X4' LED CENTER BASKET TROFFER.
A2E	RAB	T34FA-2'X4'/E	RECESSED	5025L LED	5000 K	84	120	40 W	100	2'X4' LED CENTER BASKET TROFFER BACKED UP BY 90-MINUTE EMERGENCY BATTERY PACK.
A2X	RAB	T34FA-2'X4'	RECESSED	5025L LED	5000 K	84	120	40 W	8	SAME AS FIXTURE TYPE "A2" EXCEPT CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM.
DW	RAB	SR4	SURFACE / PENDANT	5884L LED	5000 K	86	120	40 W	2	4' LENSED LED STRIPLIGHT WITH WIREGUARD AND 0-10V DIMMING DRIVER.
DWX	RAB	SR4	SURFACE / PENDANT	5884L LED	5000 K	86	120	40 W	2	SAME AS FIXTURE TYPE 'DW' EXCEPT CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM.
G	RAB	H17XL	PENDANT	24,336L LED	5000 K	84	120	150 W	10	FEILD-ADJUSTABLE HIGH BAY.
GX	RAB	H17XL	PENDANT	24,336L LED	5000 K	84	120	150 W	4	SAME AS FIXTURE TYPE 'G' EXCEPT CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM.
LS4	RAB	GUSJR4-5000K	WALL MOUNT	5,300L LED	5000 K	83	120	40 W	10	SURFACE 1' APERTURE LED.
LS4E	RAB	GUSJR4-5000K-E	WALL MOUNT	5,300L LED	5000 K	83	120	40 W	6	SAME AS TYPE 'LS4' EXCEPT BACKED UP BY 90-MINUTE EMERGENCY BATTERY PACK.
R7	KELVIX	ENN-WL-50K-24V-SL-7 WITH MINI ULV96 AND EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL	RECESSED	1764L LED	5000 K	90	120	32 W	1	TAPELIGHT WITH 0-10V DIMMING DRIVER AND SEPARATE CUT-TO-FIT MATTE WHITE POLYCARBONATE LIGHTING DIFFUSER SHEET OR EQUAL
R9	KELVIX	ENN-WL-50K-24V-SL-9 WITH MINI ULV96 AND EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL	RECESSED	2268L LED	5000 K	90	120	41 W	2	TAPELIGHT WITH 0-10V DIMMING DRIVER AND SEPARATE CUT-TO-FIT MATTE WHITE POLYCARBONATE LIGHTING DIFFUSER SHEET OR EQUAL
R15	KELVIX	ENN-WL-50K-24V-SL-15 WITH MINI ULV96 AND EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL	RECESSED	3780L LED	5000 K	90	120	68 W	2	TAPELIGHT WITH 0-10V DIMMING DRIVER AND SEPARATE CUT-TO-FIT MATTE WHITE POLYCARBONATE LIGHTING DIFFUSER SHEET OR EQUAL
R17	KELVIX	ENN-WL-50K-24V-SL-17 WITH MINI ULV96 AND EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL	RECESSED	4284L LED	5000 K	90	120	77 W	3	TAPELIGHT WITH 0-10V DIMMING DRIVER AND SEPARATE CUT-TO-FIT MATTE WHITE POLYCARBONATE LIGHTING DIFFUSER SHEET OR EQUAL
R27	KELVIX	ENN-WL-50K-24V-SL-27 WITH MINI ULV92 AND EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL	RECESSED	6804L LED	5000 K	90	120	122 W	1	TAPELIGHT WITH 0-10V DIMMING DRIVER AND SEPARATE CUT-TO-FIT MATTE WHITE POLYCARBONATE LIGHTING DIFFUSER SHEET OR EQUAL
R38	KELVIX	ENN-WL-50K-24V-SL-38 WITH MINI ULV92 AND EPLASTICS .060" x 48" x 96" LUMEN XT-LW3 POLYCARBONATE SHEET OR EQUAL	RECESSED	9576L LED	5000 K	90	120	171 W	2	TAPELIGHT WITH 0-10V DIMMING DRIVER AND SEPARATE CUT-TO-FIT MATTE WHITE POLYCARBONATE LIGHTING DIFFUSER SHEET OR EQUAL
W	RAB	W22-M-100	WALL	11,758L LED	5000 K	84	120	100 W	6	EXTERIOR LED WALL PACK.
X	RAB	EXIT-NY	SURFACE	LED	5000 K	80	120	11 W	7	UNIVERSAL LED EXIT SIGN MOUNTED WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.
X1	RAB	TBD	WALL	LED	5000 K	80	120	5 W	3	WALL MOUNTED LED LIGHT FIXTURE WITH 90-MINUTE EMERGENCY BATTERY PACK.

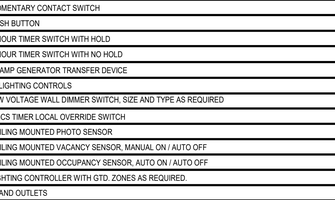
CONTACTOR SCHEDULE

CONTACTOR ID	LOAD DESCRIPTION	CONTACTOR RATINGS VOLTS	AMPS	POLES	CIRCUITS	CONTROL TYPE
1	STORM SHELTER WALL PACKS	120	20	4	CL-49	EXISITNG BUILDING MANAGEMENT MECH X219
2	FIRE LANE DRIVE LIGHTING	120	20	6	CL-XX, EXIST.PANEL F, EXIST.PANEL D	EXISITNG BUILDING MANAGEMENT MECH X219

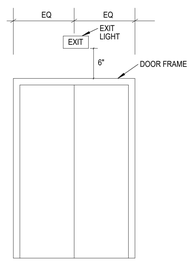
SITE LIGHTING SHALL AUTOMATICALLY SHUT OFF FROM NOT LATER THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING. LIGHTS SHALL BE AUTOMATICALLY TURNED OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS. BMCS CONTROL TO ABIDE BY C405.2.7.

REFER TO ELECTRICAL SITE PLAN FOR INFORMATION ON NEW SITE LIGHTING CIRCUITS FROM EXISTING PANELS 'D' AND 'F.'

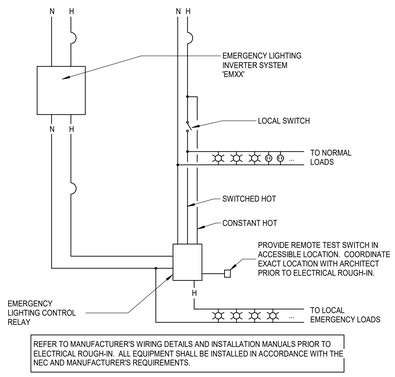
NOTES:
1. ELECTRICAL, MECHANICAL, AND BMCS CONTRACTORS MUST COORDINATE ALL DIVISION 26 REQUIREMENTS.
2. REFER TO MECHANICAL DRAWINGS FOR ALL BMCS SENSOR LOCATIONS.
3. ALL CONDUIT SYSTEMS AND BACK-BOXES SHALL BE PROVIDED BY DIVISION 26.
4. ALL BMCS SENSORS AND ASSOCIATED WIRING SHALL BE PROVIDED BY BMCS CONTRACTOR.



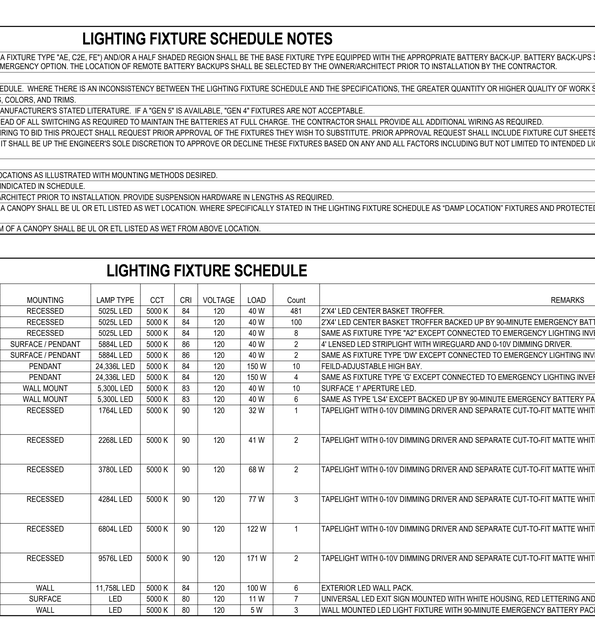
4 TYPICAL LIGHTING FIXTURE WIRING DETAIL
Scale: 12" = 1'-0"



3 TYPICAL EXIT SIGN LOCATION
Scale: 12" = 1'-0"



2 EMERGENCY LIGHTING CONTROL RELAY
Scale: 12" = 1'-0"



1 TYPICAL DOOR ROUGH-IN DETAIL
Scale: 1" = 1'-0"

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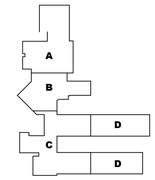
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KEITH W. GASSMAN
89636
LICENSED
PROFESSIONAL
ENGINEER
04/27/2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005
DATE
04/27/2026
ISSUE
BID SET

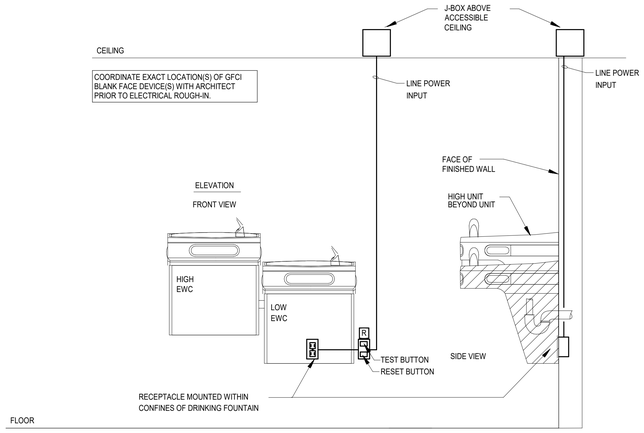
SHEET TITLE
ELECTRICAL DETAILS

SHEET NO.
E10.51

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Project No: 2550-02052

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4 ELECTRICAL REQUIREMENTS AT WATER FOUNTAIN

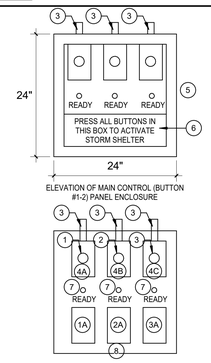
Scale: 12" = 1'-0"

STORM SHELTER CONTROL PANEL ELEVATION AND NOTES

1. BUTTON #1 - VENTILATION FAN - PUSHING THIS BUTTON WILL TURN ON THE SUPPLY FAN LOCATED IN THE STORM SHELTER. THE BUTTON WILL REMAIN LIT AS LONG AS THE BUTTON IS ACTIVE. A KEYED RESET OF THE BUTTON SHALL SHUT OFF THE LIGHT ON THE BUTTON AND TURN OFF THE FAN. THE CONTRACTOR SHALL WIRE THE CONTROL CIRCUIT TO CONNECT TO THE CONTROL CONTACTORS AT THE FAN MOTOR STARTER. THIS NEEDS TO BE INSTALLED IN PARALLEL WITH THE CONTROL CIRCUIT FROM THE BMCS. COORDINATE THIS INSTALLATION WITH THE BMCS AND MECHANICAL CONTRACTORS. REFERENCE THE MEP DRAWINGS FOR THE FAN LOCATION.
2. BUTTON #2 – GAS SHUT OFF – PUSHING THIS BUTTON WILL ACTIVATE THE ACCESS CONTROL SYSTEM TO ENGAGE BOTH OF THE GAS SHUTOFF VALVES. REFERENCE PLUMBING DRAWINGS FOR VALE LOCATIONS. LED "READY" LIGHT, WHEN LIT, INDICATES THAT THE GAS MAIN IS FULL DISCONNECTED. DEACTIVATING THIS BUTTON WITH THE KEY OVERRIDE WILL RECONNECT THE GAS.
3. OVERHEAD STORM DOOR - PUSHING THIS BUTTON WILL ENGAGE CLOSING OF STORM DOOR. THE BUTTON WILL REMAIN LIT AS LONG AS THE BUTTON IS ACTIVE. A KEYED RESET OF THE BUTTON SHALL SHUT OFF THE LIGHT ON THE BUTTON AND SHALL REMOVE THE CLOSE-OVERRIDE. THE CONTRACTOR SHALL WIRE THE CONTROL CIRCUIT TO BE INSTALLED IN PARALLEL WITH THE LOCAL DOOR CONTROLS. COORDINATE ADDITIONAL REQUIREMENTS WITH DOOR MANUFACTURER.
4. 1" CONDUITS INSTALLED FROM THE NEAREST ACCESSIBLE CEILING SPACE TO THE INSIDE OF THE WALL CABINET. ALL CONDUIT AND PROTECTIVE BUSHINGS BY ELECTRICAL CONTRACTOR. INSTALL SINGE GANG BACK BOXES INSIDE THE WALL CABINET FOR A DEDICATED PATHWAY FOR EACH WIRE THAT SHALL RUN TO A SPECIFIC BUTTON.
5. ALL BUTTON LABELING SHALL BE MACHINE GENERATED BY THE ELECTRICAL CONTACTOR & TO BE COORDINATED WITH ARCHITECT. THE LABELS SHALL BE IN LARGE CAPITAL LETTER TEXT & LOCATED UNDER EACH BUTTON. DO NOT COVER THE LED LIGHTS LOCATE BELOW THE BUTTONS. LABEL THE BUTTONS AS FOLLOWS:

   A) BUTTON 1 – LABEL SHALL READ "1"
   B) BUTTON 2 – LABEL SHALL READ "2"
   C) BUTTON 3 – LABEL SHALL READ "3"

6. WALL ENCLOSURES – THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE ENCLOSURES, BACK BOXES AND THE SHELTER CONTROL PANEL AND BUTTONS. INSTALL ENCLOSURE AT 44" A.F.F. MEASURED FROM THE BOTTOM OF THE ENCLOSURE.
7. MAIN CONTROL PANEL ENCLOSURE – CONTRACTOR SHALL PROVIDE AND INSTALL A WHITE LABEL WITH RED TEXT ON THE EXTERIOR LID OF THE ENCLOSURE. THE TEXT SHALL READ "PRESS ALL BUTTONS IN THIS BOX TO ACTIVATE TORNADO SHELTER". DO NOT PLACE THE LABEL OVER THE PLEXIGLASS DOOR IN SUCH A MANNER THAT THE OPERATOR CANNOT SEE THE LED LIGHTS.
8. LED LIGHT LOCATIONS UNDER EACH BUTTON.
9. BUTTON FUNCTION DESCRIPTION SHALL BE PRINTED AS SHOWN PER ARCHITECTURAL LIFE SAFETY PLAN AND INSERTED INTO A CLEAR PLASTIC POCKET AND COVERED WITH A LIFT-UP COVER PLATE (HINGED AT TOP).

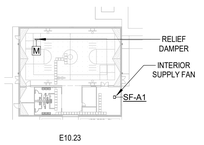


BUTTON 1

ACTIVATION: WHEN THE LARGE BUTTON ABOVE IS PRESSED, THE BUTTON ITSELF WITH LIGHT UP TO INDICATE THAT THE EMERGENCY VENTILATION SYSTEM IS ACTIVATED.

READY LIGHT: ONCE THE LARGE BUTTON ABOVE HAS BEEN PRESSED, THE READY LIGHT ABOVE SHOULD ONLY TURN ON WHEN THE INTERIOR SUPPLY FAN IS FULLY OPERATING AND THE RELIEF DAMPER IS FULLY OPEN.

DEACTIVATION: WHEN THE KEY CHAINED TO THIS BOX IS INSERTED INTO THE LARGE BUTTON ABOVE AND TURNED, THE INTERIOR SUPPLY FAN SHOULD TURN OFF AND THE RELIEF DAMPER SHOULD CLOSE.



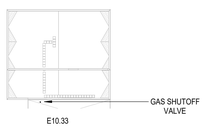
1A

BUTTON 2

ACTIVATION: WHEN THE LARGE BUTTON ABOVE IS PRESSED, THE BUTTON ITSELF WITH LIGHT UP TO INDICATE THAT THE **GAS SHUTOFF VALVE** IS CLOSING.

READY LIGHT: ONCE THE LARGE BUTTON ABOVE HAS BEEN PRESSED, THE READY LIGHT ABOVE SHOULD ONLY TURN ON WHEN THE GAS SHUTOFF VALVE IS FULLY CLOSED.

DEACTIVATION: WHEN THE KEY CHAINED TO THIS BOX IS INSERTED INTO THE LARGE BUTTON ABOVE AND TURNED, THE GAS SHUTOFF VALVE SHOULD BEING TO OPEN.



2A

BUTTON 3

ACTIVATION: WHEN THE LARGE BUTTON ABOVE IS PRESSED, THE BUTTON ITSELF WITH LIGHT UP TO INDICATE THAT THE EMERGENCY OVERHEAD COILING STORM DOOR IS ACTIVATED.

READY LIGHT: ONCE THE LARGE BUTTON ABOVE HAS BEEN PRESSED, THE READY LIGHT ABOVE SHOULD ONLY TURN ON WHEN THE OVERHEAD COILING STORM DOOR IS FULLY CLOSED.

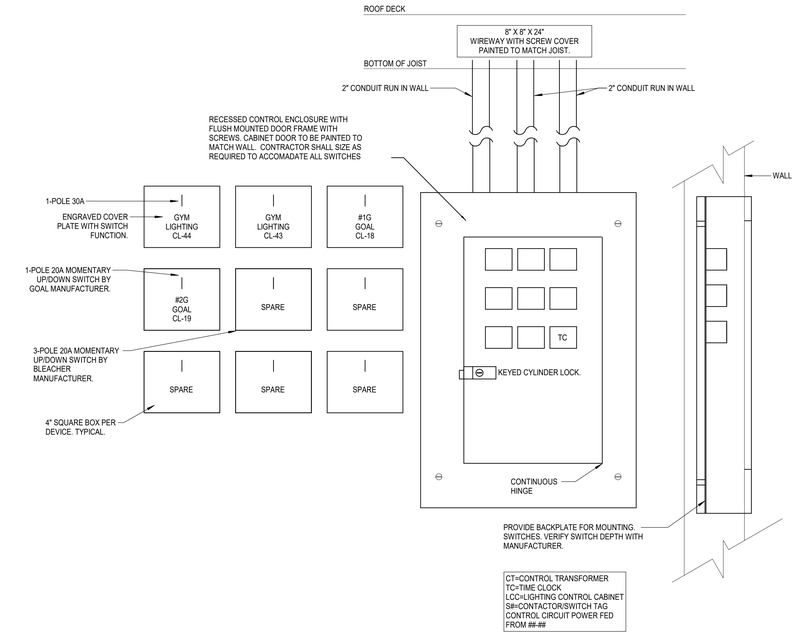
DEACTIVATION: WHEN THE KEY CHAINED TO THIS BOX IS INSERTED INTO THE LARGE BUTTON ABOVE AND TURNED, THE OVERHEAD COILING STORM DOOR SHOULD OPEN WITH THE CLOSE-OVERRIDE NO LONGER IN-EFFECT.



3A

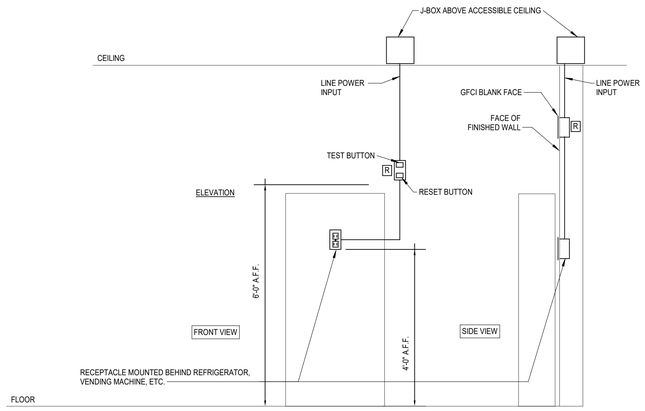
3 STORM SHELTER CONTROLS

Scale: 1" = 1'-0"



2 GYM CONTROL CABINET

Scale: 12" = 1'-0"



1 GFCI REQUIRED EQUIPMENT DETAIL

Scale: 12" = 1'-0"

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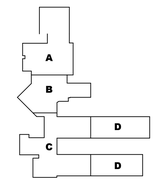
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04/27/2026



KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
ELECTRICAL DETAILS

SHEET NO.
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Project No: 2550-02052

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MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDERS AND BRANCH CIRCUITS (2021 IECC 405.10)

1.	Total voltage drop from the point of service to the last outlet or utilization equipment of the same voltage shall not exceed five-percent of rated voltage.
2.	Total voltage drop from the point of service to transformers with adjustable taps, buck-boost transformers, uninterruptable power supplies (UPS), or voltage regulators shall not exceed five-percent of rated voltage.
3.	Total voltage drop from a separately derived system, transformer with adjustable taps, buck-boost transformer, uninterruptable power supply (UPS), or voltage regulator to the last outlet or utilization equipment of the same voltage shall not exceed five-percent of rated voltage.
4.	Total voltage drop from the point of service to distribution equipment of the same voltage shall not exceed two-percent of rated voltage.
5.	Branch circuit voltage drop from distribution equipment to the last outlet or utilization equipment shall not exceed three-percent of rated voltage.
6.	Provide the same size branch circuit conductors to last outlet on circuit unless specifically noted or indicated otherwise on the drawings. For 20 amp branch circuits operating at 150-Volts or less, provide #10 AWG wire when the first outlet is over 75-feet from the panelboard. For branch circuits operating above 150-Volts to 600-Volts, provide #10 AWG wire when the first outlet is over 150-feet from the panelboard.

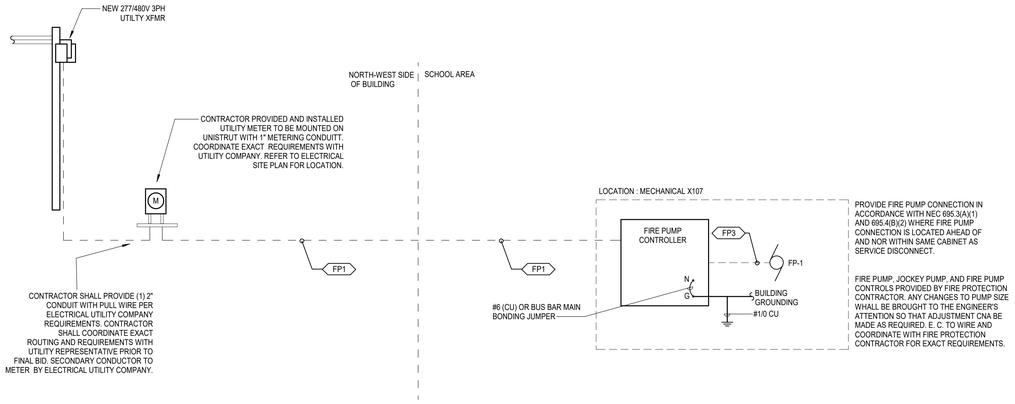
TRANSFORMER SCHEDULE

PRIMARY (240V 3PH 3W + GND)			SECONDARY (208V 3PH 4W + GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
30KVA	3#2, 1"C, 1#8G	3P-100A	4#2, 1-1/4"C, 1#8G	3P-110A	#8

FEEDER SCHEDULE

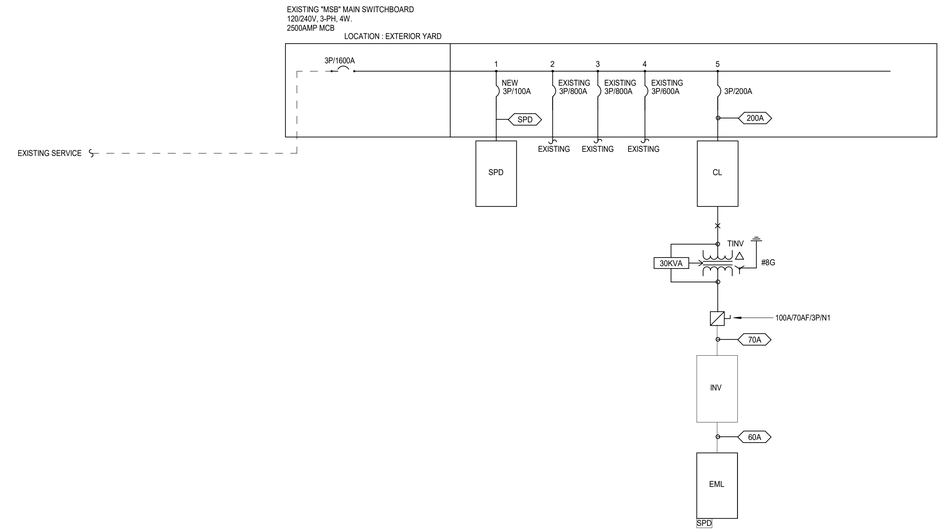
AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
60A	1	(4) #6	#10	1"C
70A	1	(4) #4	#8	1-1/4"C
200A	1	(4) #3/0	#6	2"C
FP1	1	(4) #3	NA	1-1/2"C
FP3	1	(3) #3	#3	1-1/2"C

1. CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2. CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3. GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4. CONDUIT FILL BASED ON NEC ANNEX C.



2 ONE LINE DIAGRAM-FIRE PUMP BASE-BID

Scale: 12" = 1'-0"



1 ONE LINE DIAGRAM

Scale: 12" = 1'-0"

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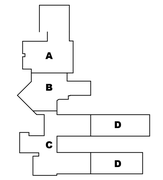
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(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
LICENSED
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
ONE LINE DIAGRAM

SHEET NO.
E10.61

Salas O'Brien
salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
Irving, TX 75062

Registration: F-4111
Project No: 2550-02052

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Branch Panel: CL

Location: ELEC SS107 | **Volts:** 240 3Ph Delta | **A.I.C. Rating:** 10,000
Supply From: MSB | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 200A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1					2.0 / 0.7			1	20	#12	RECEPT - PUMP	2	
	3	TINV	1L	100	3		1.2 / 0.0		1	20	--	SPACE	4	--
	5							2.4 / 1.5	1	20	#12	HAND DRYER - GIRLS RR SS105	6	
	7	HAND DRYER - BOYS RR SS106	#12	20	1	1.5 / 1.5			1	20	#12	HAND DRYER - GIRLS RR SS105	8	
--	9	SPACE	--	20	1		0.0 / 0.0		1	20	--	SPACE	10	--
	11	HAND DRYER - BOYS RR SS106	#12	20	1			1.5 / 0.4	1	20	#12	RECEPT - COACH OFFICE SS102	12	
	13	RECEPT - COACH OFFICE SS102	#12	20	1	0.4 / 0.4			1	20	#12	RECEPT - STORAGE SS101	14	
--	15	SPACE	--	20	1		0.0 / 0.0		1	20	--	SPACE	16	--
	17	RECEPT - STORAGE SS101	#12	20	1			0.4 / 0.2	1	20	#12	MOTORIZED GOAL- GYM SS100	18	
	19	MOTORIZED GOAL- GYM SS100	#12	20	1	0.2 / 0.0			1	20	--	SPARE	20	--
--	21	SPACE	--	20	1		0.0 / 0.0		1	20	--	SPACE	22	--
	23	RECEPT - RESTROOMS	#12	20	1			0.4 / 0.2	1	20	#12	RECEPT - ELEC	24	
	25	AV RACK STORAGE SS101	#12	20	1	0.5 / 12.2							26	
	27						0.0 / 12.2		3	110	1	RTU-A1	28	
	29	JP-1	#12	20	3			0.0 / 12.2					30	
	31					0.0 / 3.0							32	
--	33	SPACE	--	--	1		0.0 / 3.0		3	30	10	RTU-A2	34	
	35	EF-A1	#12	20	1			0.7 / 3.0					36	
	37	RECEPT - MAINTENANCE	#12	20	1	0.5 / 0.0			1	20	--	SPARE	38	--
	39	DCU-A1	#10	25	2		2.1 / 0.0		1	--	--	SPACE	40	--
	41							2.1 / 0.0	1	20	#12	CONDENSATE PUMP ELEC SS107	42	
	43	LIGHTING - GYM	#10	20	1	0.8 / 1.5							44	
--	45	SPACE	--	--	1		0.0 / 1.5		2	20	#12	EUH-A1	46	
	47	LIGHTING - GENERAL PURPOSE	#12	20	1			0.6 / 1.5					48	
	49	LIGHTING - EXTERIOR	#12	20	1	0.6 / 1.5			2	20	#12	EWH-1	50	
--	51	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	52	--
--	53	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	54	--
	55	LIGHTING - GYM	#10	20	1	0.8 / 0.0			1	20	--	SPARE	56	--
--	57	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	58	--
--	59	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	60	--
			Total Load:			28.0 kVA	20.0 kVA	26.9 kVA						
			Total Amps:			233 A	167 A	224 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	55.1 kVA	100.00%	55.1 kVA		
Heating	3.0 kVA	100.00%	3.0 kVA	**Total Conn. Load:**	74.9 kVA
Lighting	3.7 kVA	125.00%	4.6 kVA	**Total Est. Demand:**	75.8 kVA
Miscellaneous	8.1 kVA	100.00%	8.1 kVA	**Total Conn. Current:**	180 A
Receptacles	5.0 kVA	100.00%	5.0 kVA	**Total Est. Demand Current:**	182 A

Notes:
THE B PHASE IS HIGH LEG AND NO 120V LOADS SHALL BE CONNECTED TO PHASE B. SINGLE-POLE CIRCUITS SHALL BE CONNECTED TO A OR C PHASE ONLY.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: EML

Location: ELEC SS107 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: INV | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 60A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
	1	SHELTER CONTROL PANEL R131	#12	20	1	0.5 / 0.6			1	20	#12	LIGHTING - EMERGENCY	2	
	3	EVAC PANEL STORAGE SS101	#12	20	1		0.5 / 0.4		1	20	#12	LIGHTING - EMERGENCY	4	
	5							0.2 / 0.2	1	20	#12	RCPT - SHELTER CONTROL R131	6	
	7	BP-1	#12	20	3	0.2 / 0.2			1	20	#12	EWC RR 145	8	
	9						0.2 / 0.1		1	20	#12	FIRE/SMOKE MOTORIZED DAMPERS	10	
	11	SF-A1	#12	20	1			0.7 / 1.3	1	20	#10	RCPT CONVENIENCE - GYM 135	12	
--	13	SPARE	--	20	1	0.0 / 0.5			1	20	#12	OVERHEAD COIL DOOR	14	
--	15	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	16	--
--	17	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	18	--
--	19	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	20	--
--	21	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	22	--
--	23	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	24	--
			Total Load:			2.0 kVA	1.2 kVA	2.4 kVA						
			Total Amps:			18 A	10 A	21 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1.5 kVA	100.00%	1.5 kVA		
Lighting	1.0 kVA	125.00%	1.3 kVA	**Total Conn. Load:**	5.7 kVA
Miscellaneous	1.6 kVA	100.00%	1.6 kVA	**Total Est. Demand:**	6.0 kVA
Receptacles	1.6 kVA	100.00%	1.6 kVA	**Total Conn. Current:**	16 A
				Total Est. Demand Current:	17 A

Notes:
FED FROM INVERTER INV. REFER TO FLOOR PLANS FOR MORE INFORMATION.
INV TO BE THE SCHNEIDER ELECTRIC MODEL #SCHNEIDER GALAXY-VS-20KW-480-480/277-120 MINUTE. INVERTERS REQUIRE COMMISSIONING AS INDICATED IN NEC 700.3(A).

Abbreviations:
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M - PROVIDE METERING DEVICE

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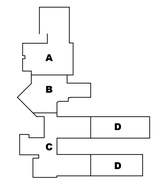
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SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
LICENSED
PROFESSIONAL ENGINEER
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

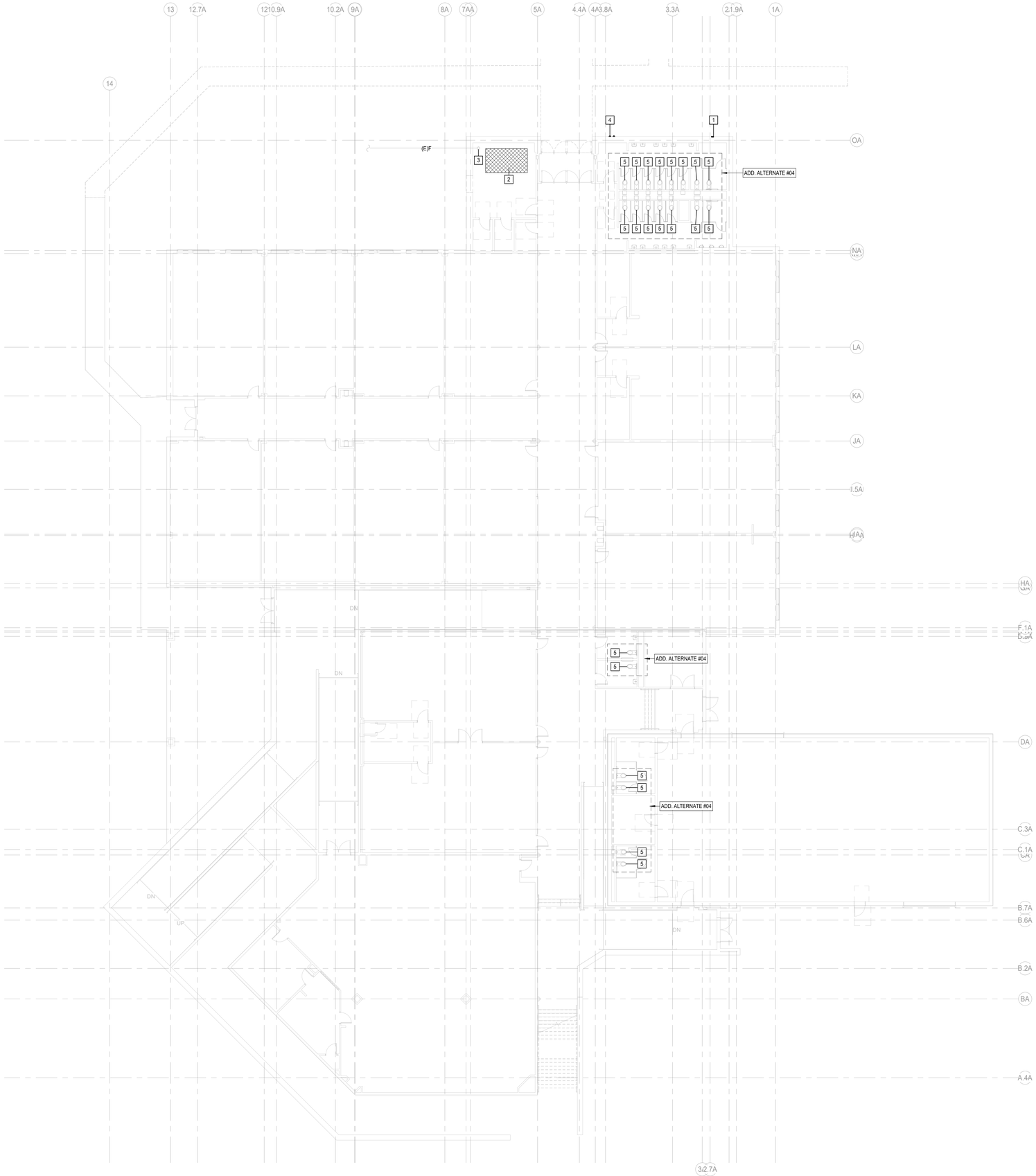
SHEET NO.
E10.71

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Registration: F-4111
Project No: 2550-02052

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1 **DEMO PLUMBING PLAN - UNIT A/B**
Scale: 3/32" = 1'-0"

PLUMBING DEMOLITION GENERAL NOTES

1	CONTRACTOR TO VISIT SITE AND BE FAMILIAR WITH BUILDING MECHANICAL AND ELECTRICAL LAYOUTS
2	ALL MATERIAL, EQUIPMENT, DUCTS, PIPE, ETC. TO BE REMOVED SHALL BE DISPOSED OF OFF SITE IN A LEGAL AND LAWFUL MANNER.
3	CAP ANY UNUSED PIPE AT FLOOR, WALL, OR CEILING. REMOVE MATERIAL NOT BEING REUSED.
4	IF ASBESTOS IS FOUND, CONTACT OWNER IMMEDIATELY. DO NOT WORK IN ANY AREA SUSPECTED TO CONTAIN ASBESTOS.
5	ALL EXISTING EQUIPMENT SHOWN IN APPROXIMATE LOCATION. ALL EXISTING CONCEALED PIPING SHOWN IS BASED ON THE MOST RECENT EXISTING M.E.P. AND CIVIL DRAWINGS AVAILABLE. FIELD VERIFY.
6	TAKE CARE NOT TO DESTROY INSULATION VALUE TO ANY WATER PIPING BEING REUSED. REPAIR AS NECESSARY.
7	CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES AND RELOCATE AS REQUIRED BY NEW CONSTRUCTION.

PLUMBING KEYED NOTES

#	
1	REMOVE EXISTING WALL HYDRANT. CAP EXISTING COLD WATER PIPING IN CEILING SPACE, TO BE EXTENDED TO NEW WALL HYDRANT LOCATION.
2	REMOVE EXISTING CONCRETE WATER HEATER HOUSEKEEPING PADS IN MECHANICAL ROOM, AS REQUIRED TO PROVIDE SPACE FOR FUTURE FIRE PUMP INSTALLATION.
3	CAP EXISTING FIRE SPRINKLER ENTRY, TO BE REROUTED THROUGH NEW FIRE PUMP SYSTEM TO BE INSTALLED IN MECH ROOM.
4	REMOVE EXISTING STORM DOWNSPOUT NOZZLES. CAP EXISTING STORM PIPING IN CEILING SPACE, TO BE EXTENDED TO NEW DISCHARGE LOCATION.
5	REMOVE EXISTING WATER CLOSET, AND CAP EXISTING DOMESTIC WATER, VENT, AND SANITARY PIPING SERVING FIXTURE FOR FUTURE FIXTURE INSTALLATION. CLEAN AND MAINTAIN EXISTING CARRIER AS REQUIRED, AND REMOVE AND REPLACE AS REQUIRED.

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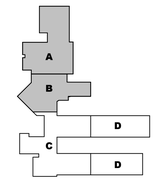
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE





KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
UNIT A/B - DEMO PLUMBING PLAN

SHEET NO.
PD9.11

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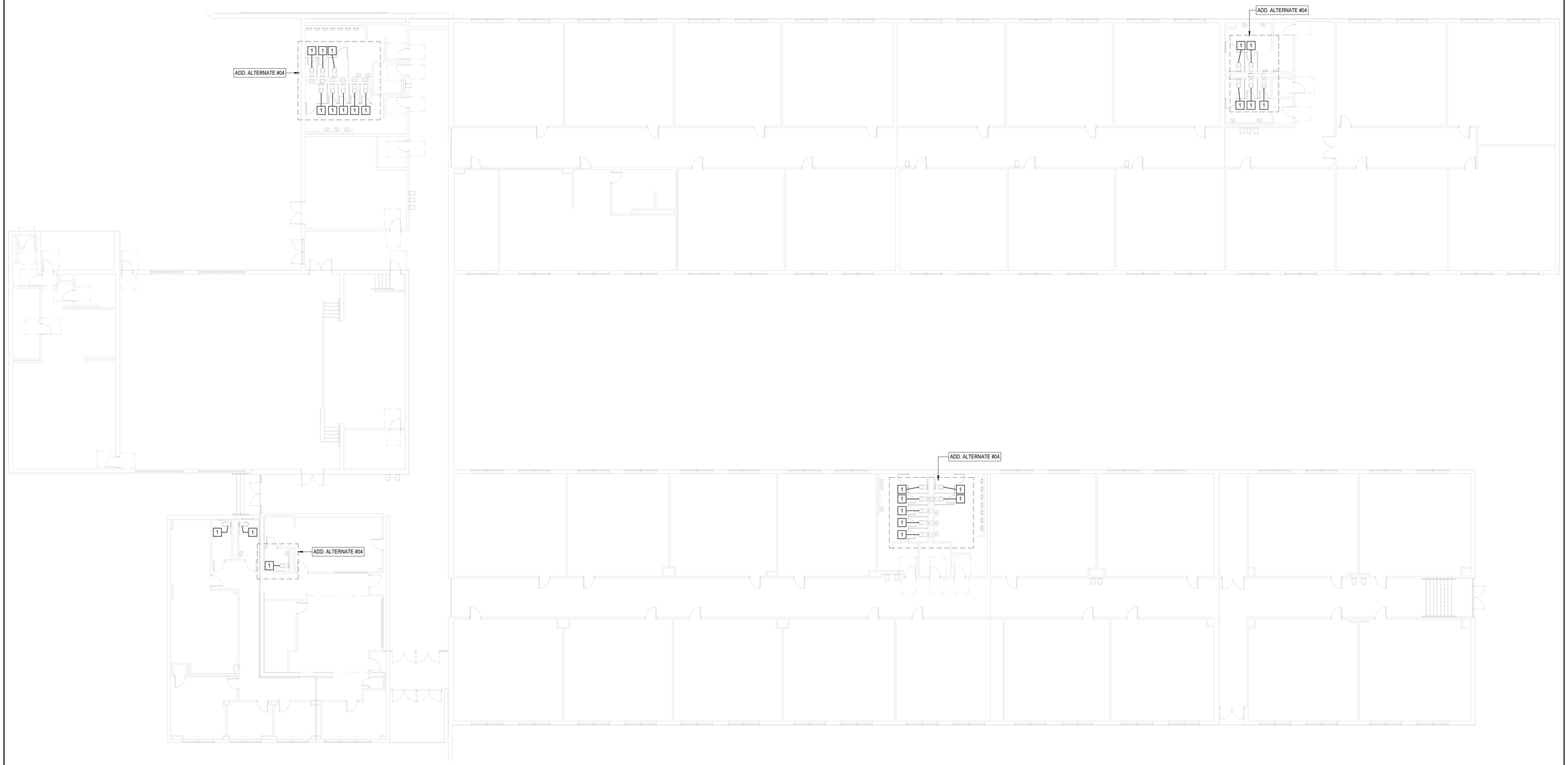
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PLUMBING DEMOLITION GENERAL NOTES

1	CONTRACTOR TO VISIT SITE AND BE FAMILIAR WITH BUILDING MECHANICAL AND ELECTRICAL LAYOUTS
2	ALL MATERIAL, EQUIPMENT, DUCTS, PIPE, ETC. TO BE REMOVED SHALL BE DISPOSED OF OFF SITE IN A LEGAL AND LAWFUL MANNER.
3	CAP ANY UNUSED PIPE AT FLOOR, WALL, OR CEILING. REMOVE MATERIAL NOT BEING REUSED.
4	IF ASBESTOS IS FOUND, CONTACT OWNER IMMEDIATELY. DO NOT WORK IN ANY AREA SUSPECTED TO CONTAIN ASBESTOS.
5	ALL EXISTING EQUIPMENT SHOWN IN APPROXIMATE LOCATION. ALL EXISTING CONCEALED PIPING SHOWN IS BASED ON THE MOST RECENT EXISTING M.E.P. AND CIVIL DRAWINGS AVAILABLE. FIELD VERIFY.
6	TAKE CARE NOT TO DESTROY INSULATION VALUE TO ANY WATER PIPING BEING REUSED. REPAIR AS NECESSARY.
7	CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES AND RELOCATE AS REQUIRED BY NEW CONSTRUCTION.

PLUMBING KEYED NOTES

#	
1	REMOVE EXISTING WATER CLOSET, AND CAP EXISTING DOMESTIC WATER, VENT, AND SANITARY PIPING SERVING FIXTURE FOR FUTURE FIXTURE INSTALLATION. CLEAN AND MAINTAIN EXISTING CARRIER AS REQUIRED, AND REMOVE AND REPLACE AS REQUIRED.



1 **DEMO PLUMBING PLAN - UNIT C/D**
Scale: 3/32" = 1'-0"

PLOT DATE:
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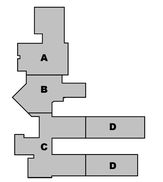
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

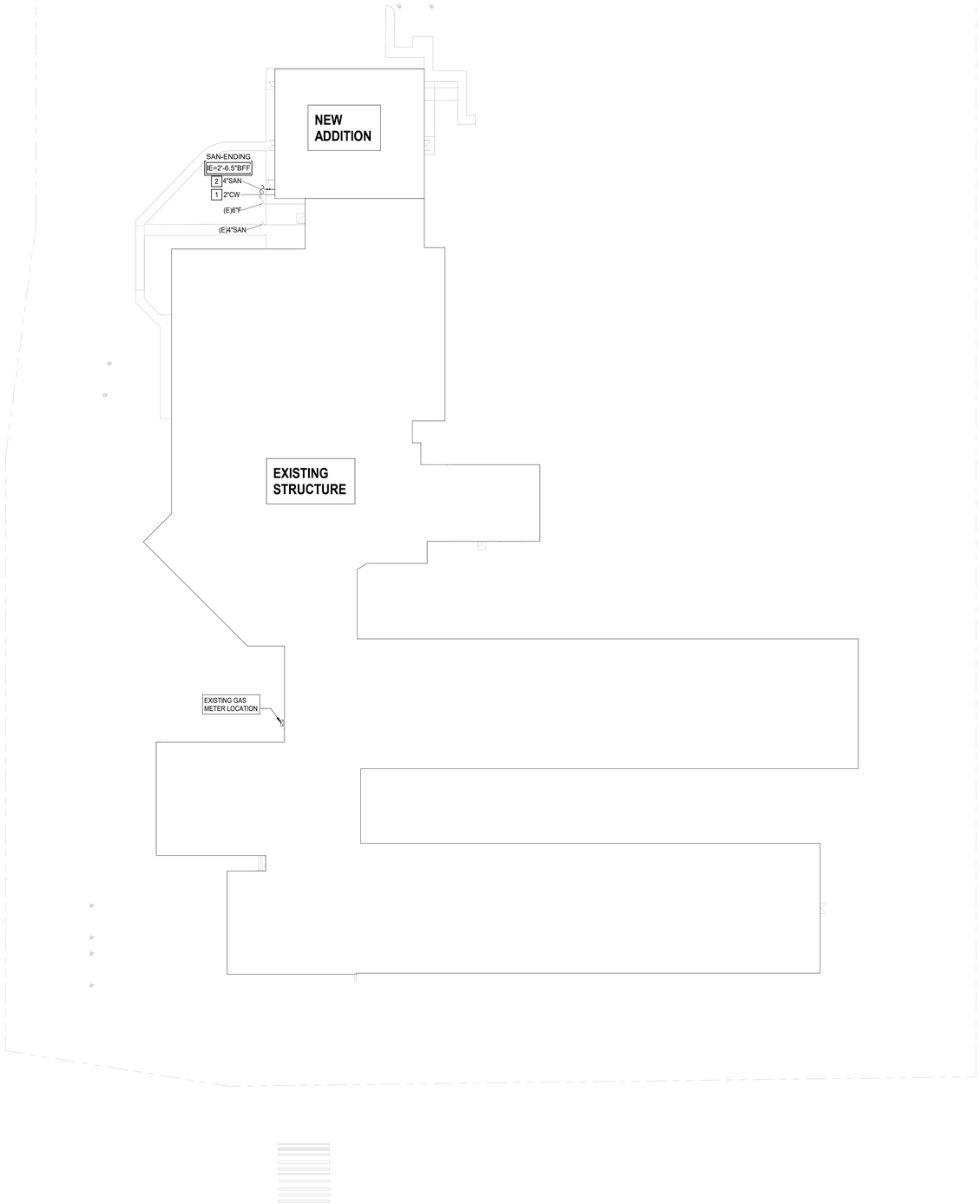
SHEET TITLE
UNIT C/D - DEMO PLUMBING PLAN

SHEET NO.
PD9.12

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Registration: F-4111
Project No: 2550-02052

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1 **PLUMBING SITE PLAN**
Scale: 1" = 30'-0"

PLUMBING GENERAL NOTES

1	ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2	THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3	ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTES. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4	CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
5	CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6	SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7	CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.
8	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ROUGH-IN REQUIREMENTS WITH PRECAST WALL MANUFACTURER.

PLUMBING KEYED NOTES

1	2" COLD WATER PIPING OUT TO SITE, SIZED FOR 64.5 WFU = 56 GPM. REFER TO CIVIL DRAWINGS FOR PIPING CONTINUATION.
2	SANITARY PIPING OUT TO SITE. REFER TO CIVIL DRAWINGS FOR PIPING CONTINUATION. COORDINATE SLEEVING OF GRADE BEAM WITH STRUCTURAL PRIOR TO ROUGH-IN.

UTILITY COMPANY CONTACTS

NATURAL GAS - ATMOS ENERGY
BUILDER SERVICES GROUP
BUILDERSERVICES@ATMOSENERGY.COM
1-888-286-6700

CONTRACTOR MUST COORDINATE WITH UTILITY REPRESENTATIVE PRIOR TO INSTALLING UTILITIES. CONTRACTOR SHALL SET UP MEETINGS WITH EACH UTILITY REPRESENTATIVE TWO WEEKS BEFORE UTILITIES ARE TO BE INSTALLED.

GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
EXISTING EQUIPMENT TO REMAIN				
EXISTING	VARIES	7,620,000 BTUH	7,620 BTUH	7,620 CFH
NEW EQUIPMENT				
MECH	MECHANICAL RTU'S	VARIES	255,000 BTUH	255 CFH
TOTALS:			7,875,000 BTUH	7,875 CFH

GAS PRESSURE REGULATOR SCHEDULE

ITEM NO.	DESCRIPTION	INLET PRESS./ OUTLET PRESS.	CFH	EQUIV. LENGTH (FT.)	MANUFACTURER/ MODEL	SERVICES
GPR-1	GAS PRESSURE REG. (NAT. GAS)	5PSI / 8OZ	255	82	AMERICAN METER MODEL 1800C	UNIT A - STORM SHELTER RTU'S

NOTES:
1. ALL GAS REGULATORS OVER 2 PSI SHALL HAVE AN OVER-PRESSURE PROTECTION DEVICE (OPD) PROVIDED WITHIN THAT REGULATOR OR HAVE AN OPD REGULATOR PROVIDED. ALL OPD REGULATORS SHALL BE VENTED TO THE EXTERIOR.

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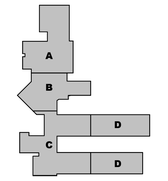
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE





KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
PLUMBING SITE PLAN

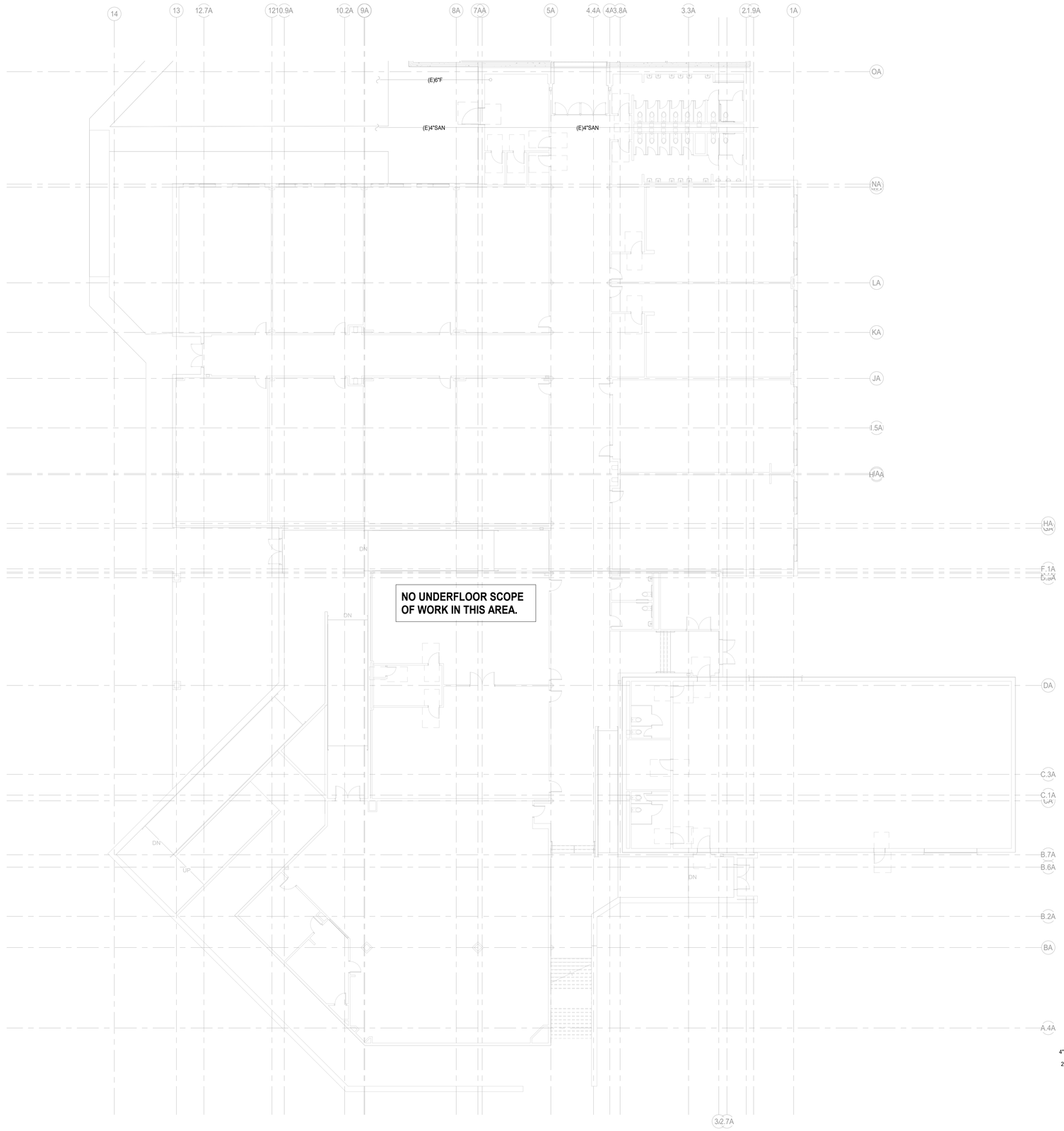
SHEET NO.
P9.00

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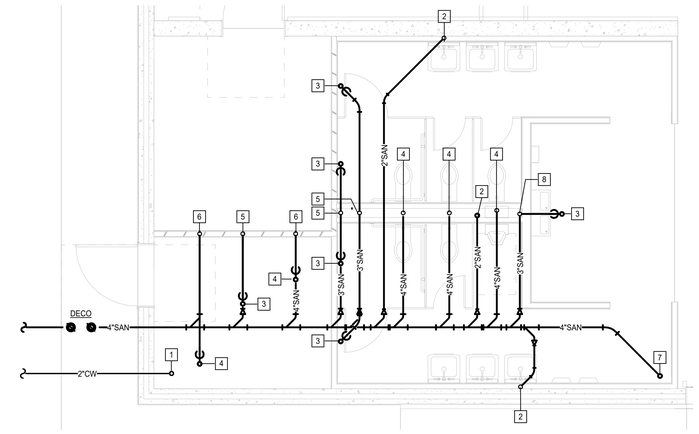
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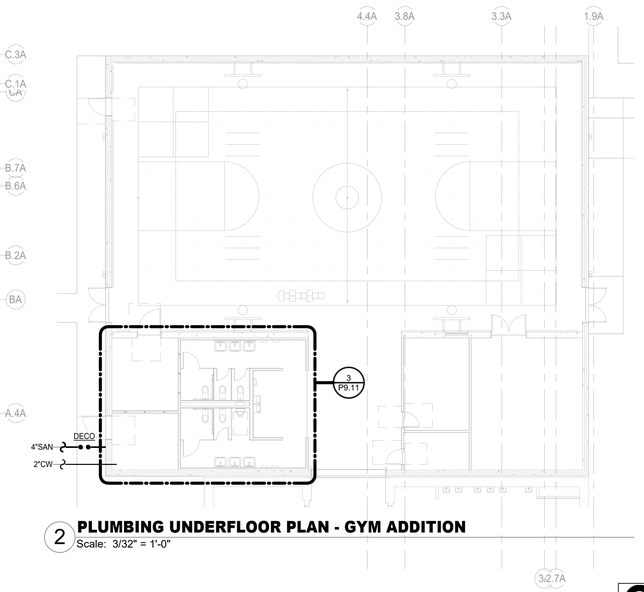
1 PLUMBING UNDERFLOOR PLAN - UNIT A/B

Scale: 3/32" = 1'-0"



3 ENLARGED PLUMBING UNDERFLOOR PLAN - GYM ADDITION RESTROOMS / RISER ROOM

Scale: 1/4" = 1'-0"



2 PLUMBING UNDERFLOOR PLAN - GYM ADDITION

Scale: 3/32" = 1'-0"

PLUMBING GENERAL NOTES

1	ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2	THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3	ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTES. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4	CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
5	CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
6	SANITARY VENT TERMINALS THROUGH ROOF SHALL BE NO LESS THAN 10'-0" FROM ANY FRESH AIR INTAKES.
7	CONTRACTOR SHALL COORDINATE ALL WORK IN OPEN CEILINGS AND AROUND CLOUDS TO NEATLY RUN CONDUITS, DUCTWORK, AND PIPING.
8	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ROUGH-IN REQUIREMENTS WITH PRECAST WALL MANUFACTURER.

PLUMBING KEYED NOTES

#	
1	2" COLD WATER ENTRY, SIZED FOR 64.5 WFU = 56 GPM.
2	2" SANITARY PIPING DOWN FROM ABOVE.
3	3" SANITARY PIPING DOWN FROM ABOVE.
4	4" SANITARY PIPING DOWN FROM ABOVE.
5	3" SANITARY PIPING DOWN FROM ABOVE, 2" VENT LINE ROUTED UP.
6	4" SANITARY PIPING DOWN FROM ABOVE, 3" VENT LINE ROUTED UP.
7	FULL SIZE LINE DOWN FROM CLEANOUT (MAXIMUM OF 4").
8	2" SANITARY PIPING DOWN FROM DRINKING FOUNTAIN. ROUTE 3" SANITARY LINE DOWN FROM FLOOR DRAIN CONNECTION TO STACK.

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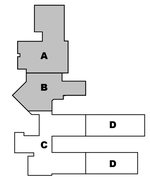
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REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

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SHEET TITLE

UNIT A/B - PLUMBING PLAN - UNDERFLOOR

SHEET NO.

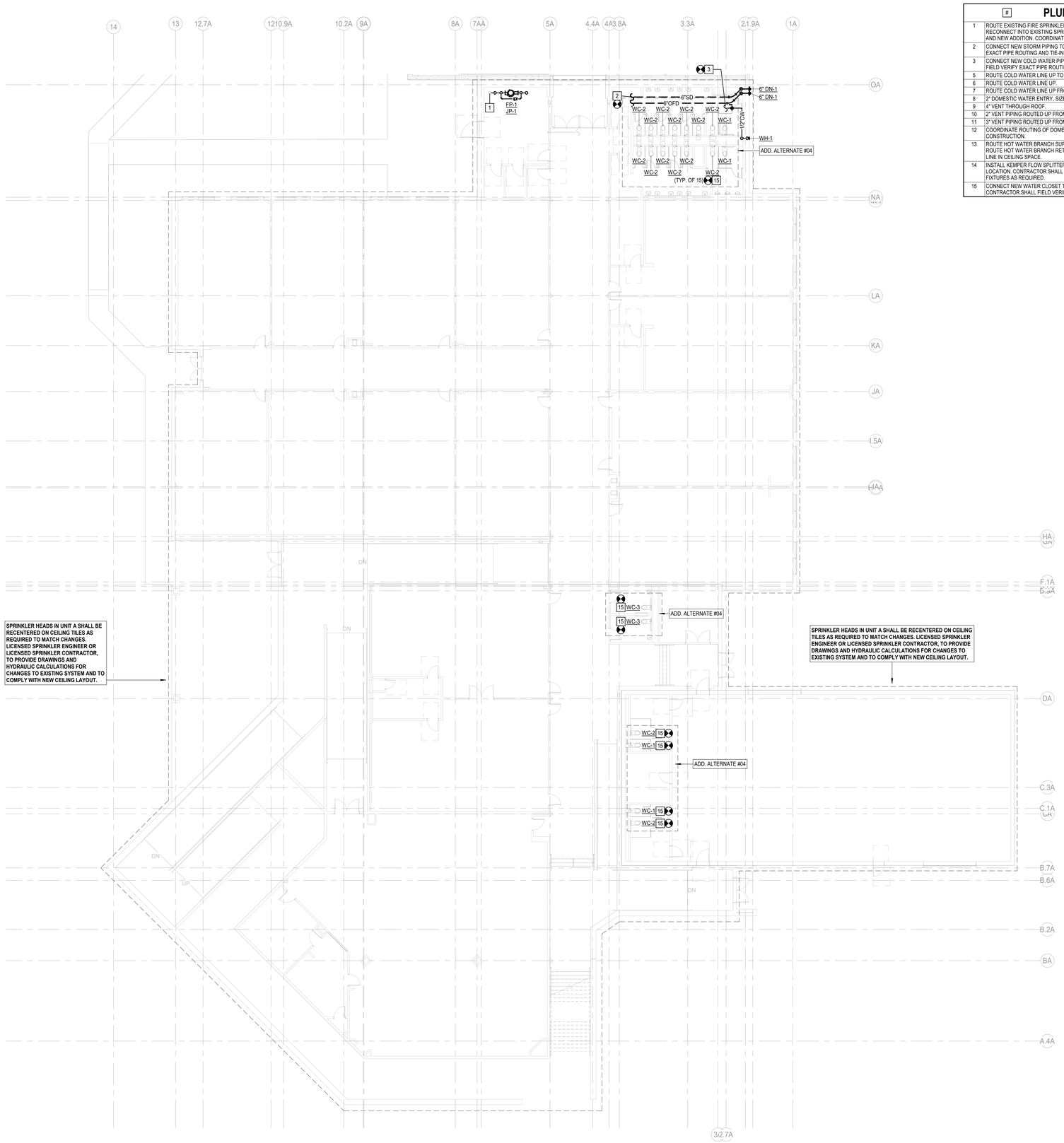
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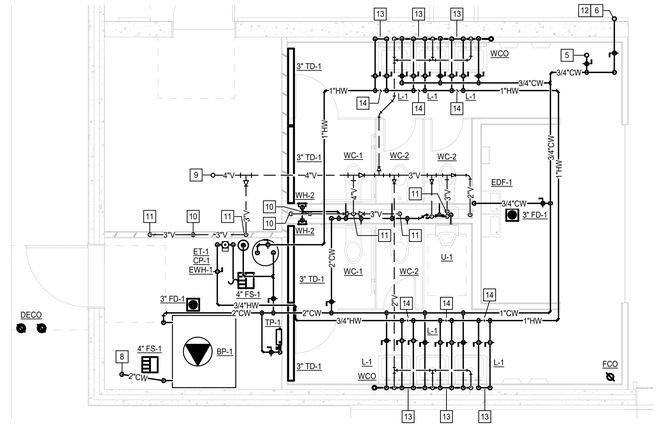
1 PLUMBING PLAN - UNIT A/B

Scale: 3/32" = 1'-0"

#	PLUMBING KEYED NOTES	#
1	ROUTE EXISTING FIRE SPRINKLER ENTRY LINE THROUGH NEW FIRE PUMP SYSTEM IN MECH ROOM. RECONNECT INTO EXISTING SPRINKLER SYSTEM AND EXTEND NEW PIPING INTO NON-SPRINKLED AREAS AND NEW ADDITION. COORDINATE WITH FIRE SPRINKLER CONTRACTOR AS REQUIRED.	
2	CONNECT NEW STORM PIPING TO EXISTING STORM LINES IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE ROUTING AND TIE-IN LOCATIONS PRIOR TO CONSTRUCTION.	
3	CONNECT NEW COLD WATER PIPING TO EXISTING COLD WATER LINE IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE ROUTING AND TIE-IN LOCATION PRIOR TO CONSTRUCTION.	
5	ROUTE COLD WATER LINE UP TO SERVE ROOF HYDRANT.	
6	ROUTE COLD WATER LINE UP.	
7	ROUTE COLD WATER LINE UP FROM BELOW	
8	2" DOMESTIC WATER ENTRY, SIZED FOR 68.5 WFU = 57 GPM.	
9	4" VENT THROUGH ROOF.	
10	2" VENT PIPING ROUTED UP FROM BELOW.	
11	3" VENT PIPING ROUTED UP FROM BELOW.	
12	COORDINATE ROUTING OF DOMESTIC WATER PIPING IN AND THROUGH PRECAST WALLS PRIOR TO CONSTRUCTION.	
13	ROUTE HOT WATER BRANCH SUPPLY LINE DOWN WALL AND ACROSS TO SERVE PLUMBING FIXTURES. ROUTE HOT WATER BRANCH RETURN LINE UP AND RECONNECT INTO HOT WATER CIRCULATION TRUNK LINE IN CEILING SPACE.	
14	INSTALL KEMPER FLOW SPLITTER ON HOT WATER CIRCULATION LOOP AT BRANCH LOOP JUNCTION LOCATION. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO ENSURE FLOW TO BRANCH LOOP FIXTURES AS REQUIRED.	
15	CONNECT NEW WATER CLOSET TO EXISTING DOMESTIC WATER, VENT, AND SANITARY PIPING IN PLACE. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE ROUTING AND TIE-IN LOCATION PRIOR TO CONSTRUCTION.	

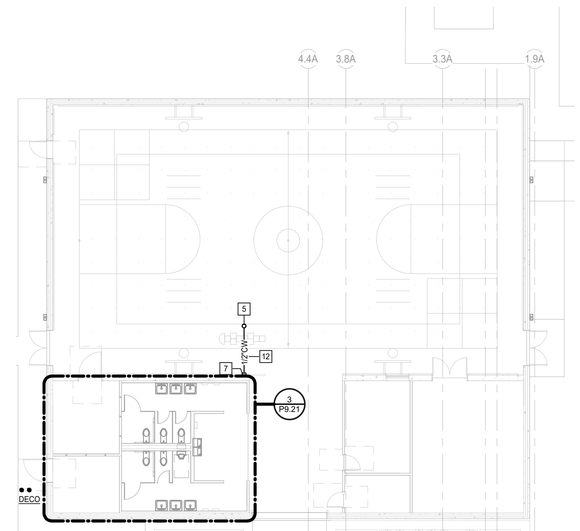
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3	ALL SANITARY PIPING 3" AND LARGER SHALL BE ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTES. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
4	CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATIVE PIPING PLAN.
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8	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ROUGH-IN REQUIREMENTS WITH PRECAST WALL MANUFACTURER.



2 PLUMBING PLAN - GYM ADDITION

Scale: 3/32" = 1'-0"



3 ENLARGED PLUMBING PLAN - GYM ADDITION RESTROOMS / RISER ROOM

Scale: 1/4" = 1'-0"

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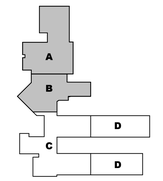
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SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
LICENSED
04/27/2026



KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
26399.005
DATE
04/27/2026
ISSUE
BID SET

SHEET TITLE
UNIT A/B - PLUMBING PLAN

SHEET NO.
P9.21

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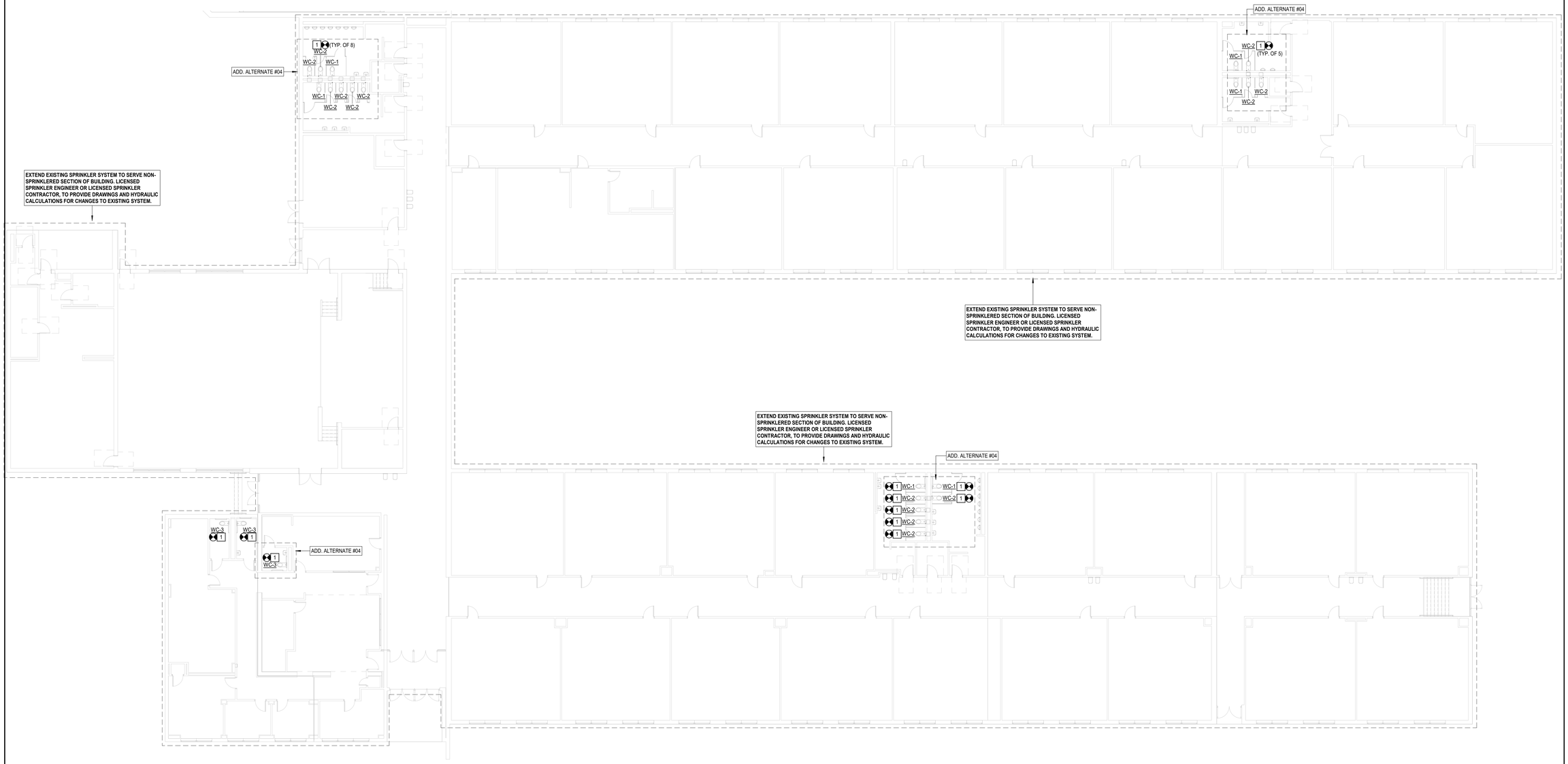
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PLUMBING KEYED NOTES

#	
1	CONNECT NEW WATER CLOSET TO EXISTING DOMESTIC WATER, VENT, AND SANITARY PIPING IN PLACE. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE ROUTING AND TIE-IN LOCATION PRIOR TO CONSTRUCTION.



1 PLUMBING PLAN - UNIT C/D

Scale: 3/32" = 1'-0"

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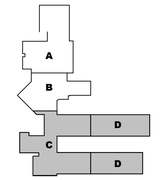
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STATE OF TEXAS
KEITH W. GASSMAN
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LICENSED
PROFESSIONAL ENGINEER
04/27/2026



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DATE
04/27/2026

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SHEET TITLE

UNIT C/D - PLUMBING PLAN

SHEET NO.

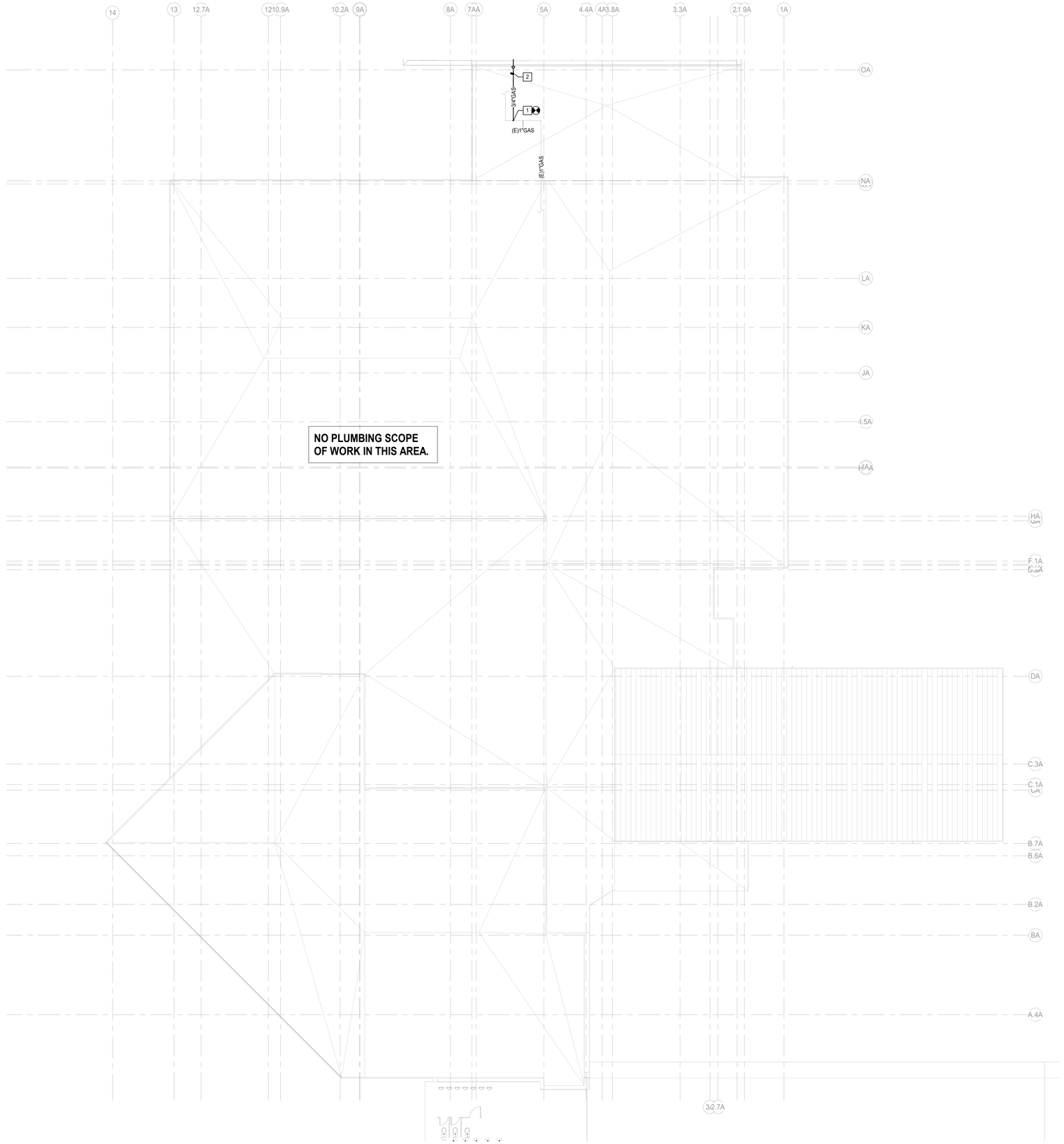
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Project No: 2550-02052

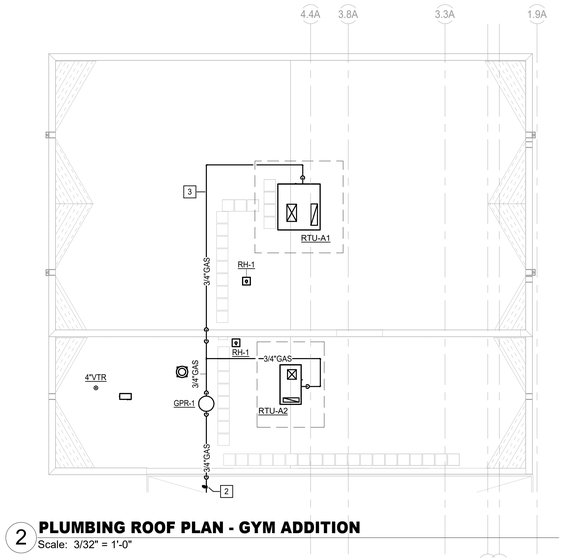
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1 PLUMBING ROOF PLAN - UNIT A/B

Scale: 3/32" = 1'-0"



2 PLUMBING ROOF PLAN - GYM ADDITION

Scale: 3/32" = 1'-0"

PLUMBING GENERAL NOTES

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PLUMBING KEYED NOTES

#	
1	CONNECT NEW GAS PIPING TO EXISTING GAS LINE ON ROOF IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE ROUTING AND TIE-IN LOCATION PRIOR TO CONSTRUCTION.
2	PROVIDE GAS SOLENOID SHUT-OFF VALVE ON MEDIUM PRESSURE GAS LINE SERVING STORM SHELTER EQUIPMENT IN THIS AREA. CONNECT SHUT-OFF TO DEDICATED STORM SHELTER CONTROL PANEL BUTTON. COORDINATE WITH ELECTRICAL DRAWINGS FOR CONTROL PANEL LOCATION. FURTHER INFORMATION, AND CONNECTION REQUIREMENTS. PROVIDE HONEYWELL ELSTER "AMERICAN METER" HON 305 MODEL OR APPROVED EQUAL.
3	CONTRACTOR SHALL PROVIDE SLEEVING FOR GAS PIPING AND INSULATED CONDENSATE PIPING AS REQUIRED TO ALLOW PIPING TO PASS THROUGH STRUCTURE. COORDINATE ROUTING OF GAS AND MECHANICAL CONDENSATE PIPING NEAR EACH OTHER TO MINIMIZE SLEEVING. FIELD VERIFY EXACT PIPE ROUTING ON SITE.

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KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
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DATE
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SHEET TITLE
UNIT A/B - PLUMBING ROOF PLAN

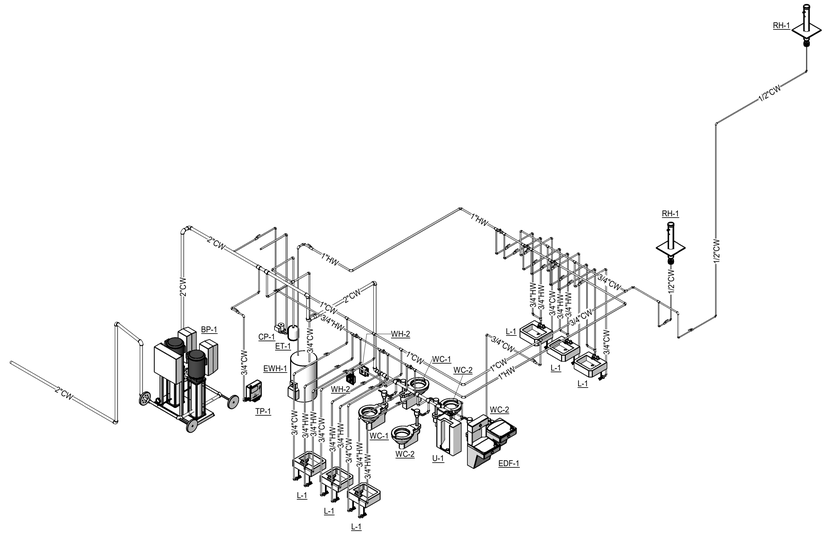
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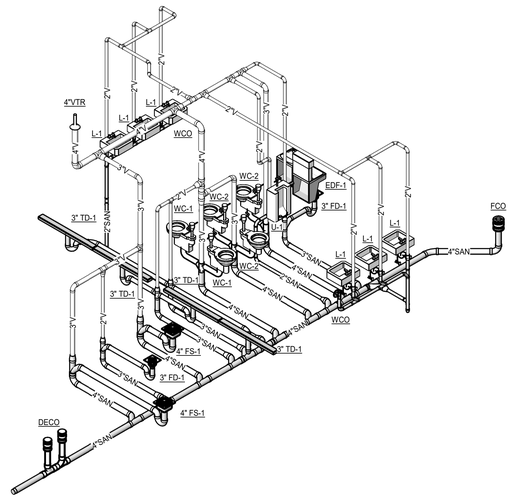
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2 PLUMBING RISER DIAGRAM - DOMESTIC WATER

Scale:



1 PLUMBING RISER DIAGRAM - WASTE & VENT

Scale:

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KEY PLAN

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ISSUE
BID SET

SHEET TITLE

PLUMBING RISER

SHEET NO.

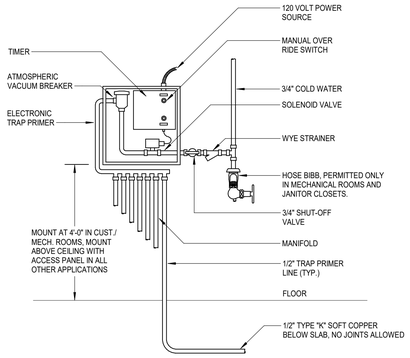
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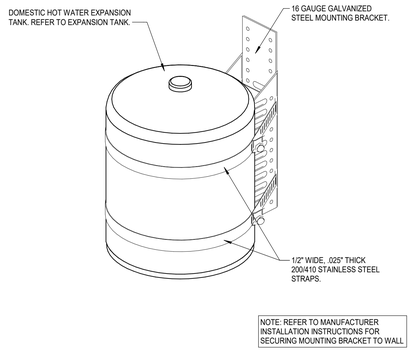
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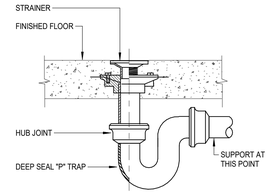
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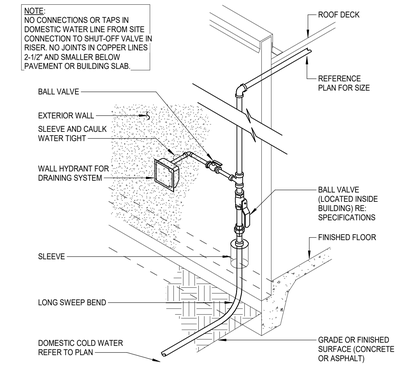
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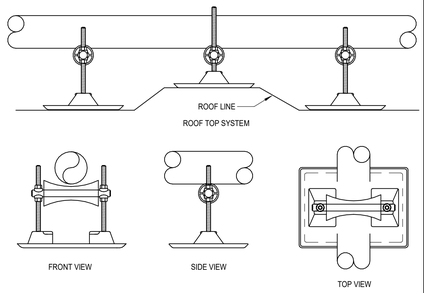
10 EXPANSION TANK MOUNTING
SCALE: NONE



6 FLOOR DRAIN
SCALE: NONE

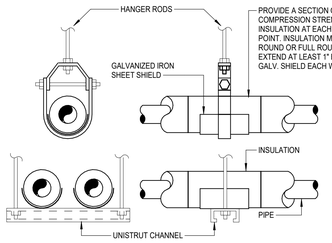


2 DOMESTIC WATER ENTRY
SCALE: NONE

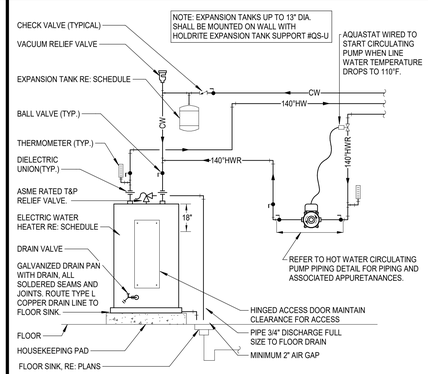


17 GAS SUPPORT ON ROOF
SCALE: NONE

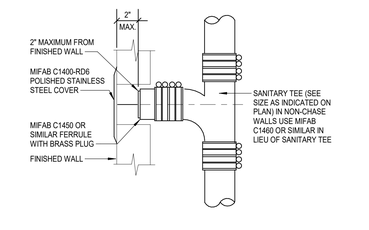
MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GAUGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	18
6"	18	16



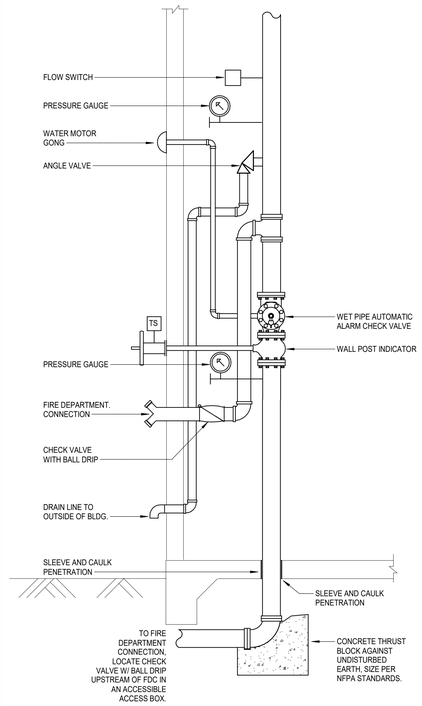
13 PIPE SHIELDS FOR INSULATED PIPING
SCALE: NONE



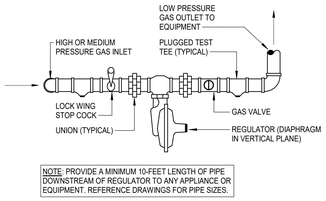
9 ELECTRIC WATER HEATER PIPING
SCALE: NONE



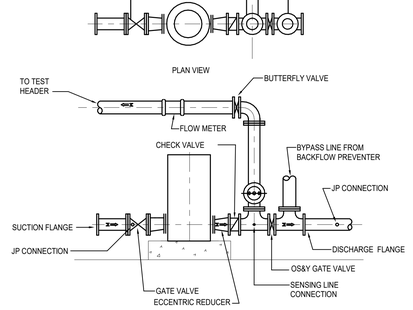
5 WALL CLEANOUT
SCALE: NONE



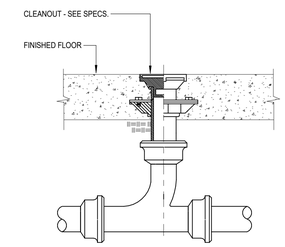
DOUBLE CHECK VALVE DETECTOR BACKFLOW-FIRE
1
SCALE: NONE



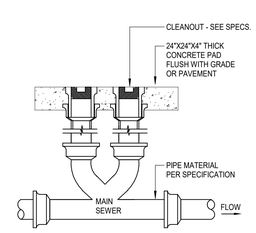
16 GAS PRESSURE REGULATOR PIPING
SCALE: NONE



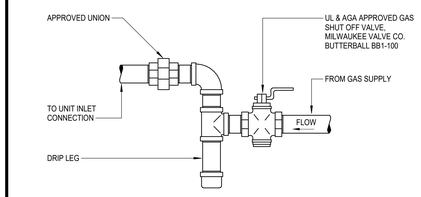
12 INLINE FIRE PROTECTION PUMP (FP-1)
SCALE: NONE



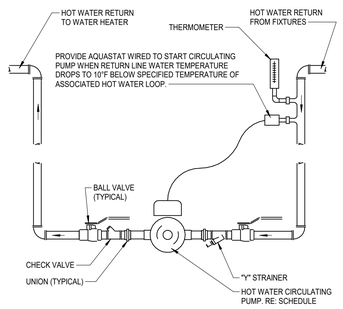
8 FLOOR CLEANOUT
SCALE: NONE



4 TWO-WAY EXTERIOR CLEANOUT
SCALE: NONE

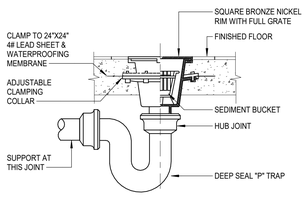


15 GAS CONNECTION
SCALE: NONE

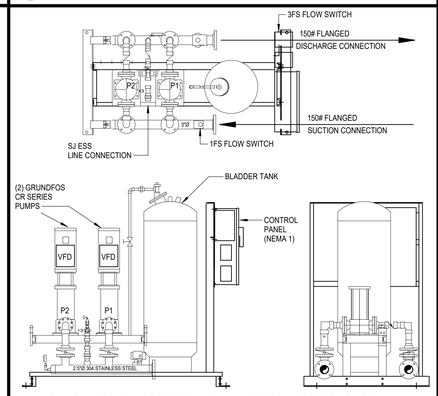


NOTE: MOUNT AT 54"-60" A.F.F. UNLESS NOTED OTHERWISE ON PLANS.

11 HOT WATER CIRCULATING PUMP
SCALE: NONE



7 FLOOR SINK
SCALE: NONE



3 DUPLEX DOMESTIC BOOSTER PUMP PKG
SCALE: NONE

PLOT DATE: 12/05/2025 11:31:32 AM TEMPLATE VERSION: 23.0.4

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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005
DATE
04/27/2026
ISSUE
BID SET

SHEET TITLE
PLUMBING DETAILS

SHEET NO.
P9.51

Salas O'Brien
salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
Irving, TX 75062
Registration: F-4111
Project No: 2550-02052

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PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
SSD	SUB-SOIL DRAIN OR FOOTING DRAIN (SSD)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
CD	CONDENSATE DRAIN PIPING (CD)
D	CONDENSATE - INDIRECT DRAIN PIPING (D)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
SCW	SOFT COLD WATER PIPING (SCW)
CDW	CHILLED DRINKING WATER PIPING (CDW)
TP	TRAP PRIMER LINE (TP)
F	FIRE PROTECTION PIPING (F)
AS	AUTOMATIC SPRINKLER PIPING (AS)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
AP	ACCESS PANEL LOCATION SYMBOL
A	SHOCK ABSORBER
	AIR CHAMBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
DIA	DIAMETER
	NEW CONNECTION
IE=100.00"	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P / 1	4" VTR RISER FLAG

PLUMBING GENERAL NOTES

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.

2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.

3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.

4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.

5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.

6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.

7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.

8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.

9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.

10.COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.

11.DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.

12.CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.

13.ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.

14.THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.

15.EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.

16.PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.

2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.

FIRE SPRINKLER SYSTEM NOTES

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

EXISTING FIRE SPRINKLER SYSTEM NOTES

A. EXISTING FIRE SPRINKLER SYSTEM TO BE MAINTAINED IN FULL OPERATING ORDER FOR ENTIRE BUILDING AT ALL TIMES. LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND HYDRAULIC CALCULATIONS FOR CHANGES TO EXISTING SYSTEM AND TO COMPLY WITH NEW SPACE LAYOUT, NFPA 13, ALL STATE AND LOCAL REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
EXISTING EQUIPMENT TO REMAIN				
EXISTING	VARIES	7,620,000 BTUH	7,620 BTUH	7,620 CFH
NEW EQUIPMENT				
MECH	MECHANICAL RTU'S	VARIES	255,000 BTUH	255 CFH
TOTALS:			7,875,000 BTUH	7,875 CFH

GAS PRESSURE REGULATOR SCHEDULE

ITEM NO.	DESCRIPTION	INLET PRESS./ OUTLET PRESS.	CFH	EQUIV. LENGTH (FT.)	MANUFACTURER/ MODEL	SERVICES
GPR-1	GAS PRESSURE REG. (NAT. GAS)	5PSI / 8OZ	255	82	AMERICAN METER MODEL 1800C	UNIT A - STORM SHELTER RTU'S

NOTES:
1. ALL GAS REGULATORS OVER 2 PSI SHALL HAVE AN OVER-PRESSURE PROTECTION DEVICE (OPD) PROVIDED WITHIN THAT REGULATOR OR HAVE AN OPD REGULATOR PROVIDED. ALL OPD REGULATORS SHALL BE VENTED TO THE EXTERIOR.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	STORAGE CAPACITY	KW	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR. V	P	MOCP	REMARKS
EWH-1	A.O. SMITH	DEN-40-3	50 GAL	3.0	12	140	240	1	20	

1 IF THE MAXIMUM FUSE SIZE OF THE EQUIPMENT PROVIDED EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS RELATED TO INCREASED FUSE SIZE / WIRE SIZE.
2 PROVIDE A 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD BENEATH ANY FLOOR-MOUNTED WATER HEATERS.

DOMESTIC HW EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	MAX WORK PRESSURE (PSI)	TANK VOLUME GALLONS	MAX. ACCEPT. GALLONS	DIAMETER (INCHES)
ET-1	WATTS	PLT-5	HOT WATER EXPANSION TANK	150	2.1	1.48	8"

1 PROVIDE POTABLE WATER EXPANSION TANK ON THE COLD WATER SUPPLY LINE, DOWNSTREAM OF THE CHECK VALVE.
2 PROVIDE A 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD BENEATH ANY FLOOR-MOUNTED EXPANSION TANKS.
3 PROVIDE UNION CONNECTION.

CIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F	MAX RPM
CP-1	GRUNDFOS	UPS 15-35	CIRCULATION PUMP	INLINE BRONZE	3	1.9	1/25	120	1	60	1750

1 PROVIDE WATTS #IPF-S 3/4" FLANGE SET.
3 PUMP CP-1 SERVES EWH-1.
5 SEE "HOT WATER CIRCULATION PUMP" DETAIL FOR ADDITIONAL INFORMATION.

FIRE PUMP SYSTEM

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	GPM	PRESSURE (PSI)	MAXIMUM RPM	MOTOR HORSEPOWER	ELECTRICAL CHAR. V	P	F
FP-1	PATTERSON	5X3 VIP	FIRE PROTECTION	VERTICAL INLINE	500	41	3525	20.00 hp	480	3	60
JP-1	EBARA	EV1-6F0075TSS	FIRE PROTECTION	MULTISTAGE INLINE	5	60	3500	0.75 hp	240	3	60

1 PUMP IS TO HAVE A NON-OVERLOADING MOTOR.
2 MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.
3 FIRE PROTECTION PUMP SYSTEM SHALL BE A COMPLETE SINGLE SOURCE PACKAGE AND SHALL INCLUDE FIRE PUMP WITH MOTOR CONTROLLER (FIRETROL FTA1930-AM20A). JOCKEY PUMP WITH CONTROLLER (FIRETROL FTA570F-AG034A), AND ALL REQUIRED APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.
4 PROVIDE HOUSEKEEPING PAD FOR FIRE PUMP AND JOCKEY PUMP AS REQUIRED.

BOOSTER PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM HP	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F	MAX RPM
BP-1	WILO	CO2-HELIX V110-06/3 VCE	DOMESTIC BOOSTER PUMP	INLINE DUPLEX	56	25.42	0.25	208	3	60	898

1 MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.
2 PROVIDE BOOSTER PUMP CONTROLLER.
3 PROVIDE A 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD BENEATH ANY FLOOR-MOUNTED PUMPS.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION
DRAINAGE FIXTURE (FD, FS, HD, TD)	
DECO	DESCRIPTION: TWO (2) EXTERIOR CLEANOUTS INSTALLED AT CIVIL'S POINT OF CONNECTION. CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH TAPERED BRASS PLUG, AND ROUND SCORIATED CAST IRON TRACTOR TYPE COVER WITH SECURITY SCREWS. MI-FAB C-1100-XR. REFER TO DETAIL FOR INSTALLATION INFORMATION.
FCO	DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-153. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.
FD-1	SERVICE: GENERAL USE DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET, TRAP PRIMER CONNECTION. WADE 1100-MR6. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FS-1	SERVICE: MECHANICAL ROOM DESCRIPTION: A.R.E. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, BOTTOM OUTLET, LOOSE SET CAST IRON SECONDARY STRAINER, CLAMPING DEVICE, TRAP PRIMER CONNECTION, AND HALF TOP GRATE. WADE 9140-8-15-26-64. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
TD-1	SERVICE: TOILET ROOMS DESCRIPTION: TRENCH DRAIN, CAST IRON BODY, ADJUSTABLE 3-3/8" WIDE, 56" LENGTH STAINLESS STEEL CHANNEL WITH STRAINER, WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET, TRAP PRIMER CONNECTION. MIFAB "OPULENZ" P9000. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
TP-1	DESCRIPTION: ELECTRONIC TRAP PRIMER, WITH DISTRIBUTION UNIT AND NEMA 1 BOX. SERVES 4-12 FLOOR DRAIN TRAPS, SURFACE MOUNT AT 4'-0" ABOVE FINISH FLOOR IN UTILITY/MECHANICAL ROOM, OR MOUNT ABOVE CEILING IN HINGED LOCKABLE ACCESS PANEL. PRECISION PLUMBING PRODUCTS "PRIME-TIME" PTS SERIES. ROUGH-IN: 3/4" COLD WATER.
WCO	DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON COMBINED COVER/PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. MIFAB C1450 WITH C1400-RD6. PROVIDE MIFAB C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.
DRINKING FOUNTAIN (EDF)	
EDF-1	DESCRIPTION: WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN WITH ELECTRONIC BOTTLE FILLER SENSOR AND SHIELDED VANDEL-RESISTANT BUBBLER, 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. HALSEY TAYLOR HTHB-HVRGRN8BL-NF. PROVDE CANE TOUCH SKIRT TO COMPLY WITH ADA GUIDELINES. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER, MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
HYDRANTS (HB, RH, WH)	
RH-1	SERVICE: ROOF HYDRANT DESCRIPTION: SANITARY ROOF HYDRANT, FREEZELESS, 3/4" INLET, CLOSED COUPLED CHROME PLATED BRASS FINISH. WOODFORD MODEL SRH. ROUGH-INS: 3/4" COLD WATER
WH-1	SERVICE: GENERAL USE, EXTERIOR DESCRIPTION: WALL HYDRANT, FREEZELESS, 3/4" INLET, CLOSED COUPLED CHROME PLATED BRASS FINISH WITH ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF HYDRANT 24" ABOVE GRADE. ZURN Z1320-CXL. ROUGH-INS: 3/4" COLD WATER

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION
WH-2	SERVICE: INTERIOR USE DESCRIPTION: WALL HYDRANT, 3/4" INLET, CLOSED COUPLED CHROME PLATED BRASS FINISH WITH ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF HYDRANT 24" A.F.F. ZURN Z1330-C. ROUGH-INS: 3/4" COLD WATER
ROOF DRAINAGE FIXTURE (DN, RD, OFD)	
DN-1	DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE WITH STAINLESS STEEL PERFORATED COVER, CAST BRONZE WITH THREADED OR NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 18" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE 3941. ROUGH-IN: REFER TO FLOOR PLANS FORSIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS/FLOOR CONSTRUCTION.
SINK/LAVATORIES (L, SK)	
L-1	SERVICE: LAVATORY (A.D.A. COMPLIANT) DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 21-1/4" X 18-1/8" BOWL WITH FRONT OVERFLOW, FAUCET HOLES ON 4" CENTERS. KOHLER "KINGSTON" K-2005. FAUCET: CHROME PLATED BRASS LAVATORY, TWO-HANDLE METERING FAUCET ON 4" CENTERS, VANDAL RESISTANT AERATOR, 0.5 GPM MAX. MOEN 8886. STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. GRAVITY FED TRAP PRIMER TAILPIECE, 1/2" NOMINAL BRANCH CONNECTION. SIOUX CHIEF" 213-092. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. INSTALL PER EVERY TWO FIXTURES. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE W520-M36. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
URINAL (U)	
U-1	DESCRIPTION: URINAL, MOUNTED AT ADA COMPLIANT HEIGHT, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH SIPHON JET ACTION, INTEGRAL TRAP. AMERICAN STANDARD "ALLBROOK" 6550.001. FLUSH VALVE: 0.5 GALLON FLUSH CYCLE, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL 180-0.5. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. MIFAB MC-32. ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
VENTS (VTR)	
4"VTR	DESCRIPTION: PLUMBING VENT THROUGH ROOF INSTALLATION, SCHEDULE 40 STEEL, RATED FOR SAFE ROOM/STORM SHELTER INSTALLATION, ICC-500 AND FEMA P-361 RATED FOR 250+ MPH WIND AND MISSILE IMPACTING, NO-HUB COUPLING INSIDE BUILDING. RPH "CYCLONE" CVTR.
WATER CLOSET (WC)	
WC-1	DESCRIPTION: WATER CLOSET (A.D.A. COMPLIANT), FLOOR MOUNTED, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "MADERA" 2234.001. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WC-2	DESCRIPTION: WATER CLOSET (STANDARD), FLOOR MOUNTED, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "MADERA" 3043.001. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WC-3	EDIT PER PROJECT!! WATER CLOSET (A.D.A. COMPLIANT), WALL HUNG, 1.6 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: 1.6 GALLON FLUSH CYCLE, EXPOSED, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111. CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER, REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.

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SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
PLUMBING LEGENDS & SCHEDULES

SHEET NO.
P9.61

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PLOT DATE: 12/26/2025 11:31:32 AM TEMPLATE VERSION: 23.0.4

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
*#	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR *#	ACCESS CONTROL CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4.
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4.
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNTED INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNTED INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNTED INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNTED EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
W W	2-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
W	1-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
VRS	VIDEO RECORDING SERVER			NOTE #5
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR AV OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AV OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

FIRE ALARM

*PROJECT SCOPE INCLUDES EXISTING FIRE ALARM SYSTEM TO REMAIN, NEW VOICE EVACUATION FIRE ALARM PANEL TO BE INCLUDED IN STORM SHELTER ADDITION. FIRE ALARM SYSTEM SHALL BE FULLY OPERATIONAL THROUGHOUT ALL PHASES OF CONSTRUCTION.

*EXISTING FIELD DEVICE LOCATIONS SHALL BE REUSED WHENEVER POSSIBLE. INSTALL NEW FIRE ALARM SYSTEM SPEAKER AS SPECIFIED FOR VOICE EVACUATION.

LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
FAPS	FIRE ALARM POWER SUPPLY
EVS	EMERGENCY VOICE SYSTEM

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
●	FIELD COORDINATE ELEVATION
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'RR'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

RESPONSIBILITY MATRIX

SCOPE ITEM	RESPONSIBILITY			NOTES
COMMUNICATIONS - DIVISION 27	OFOI	CFCI	OFCI	
CATEGORY 6/6A STRUCTURED CABLING SYSTEM		✓		
VIDEO DISTRIBUTION SYSTEM - SPECIAL SPACE	✓			
AUDIO DISTRIBUTION SYSTEM - SPECIAL SPACE		✓		
PROJECTORS	✓			
PROJECTOR MOUNTS	✓			
BUILDING INTERCOM/PA, BELL, AND CLOCK SYSTEM		✓		
NETWORK EQUIPMENT				
→ MDF/IDF NETWORK EQUIPMENT	✓			
→ VOIP TELEPHONES	✓			
→ UNINTERRUPTIBLE POWER SUPPLIES (UPS)	✓			
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.
LIFE SAFETY AND SECURITY - DIVISION 28	OFOI	CFCI	OFCI	
ACCESS CONTROL SYSTEM(ACS)		✓		
INTRUSION DETECTION SYSTEM		✓		
DOOR ACCESS VIDEO INTERCOM SYSTEM		✓		
VIDEO SURVEILLANCE SYSTEM (VSS)				
→ VSS SERVERS		✓		
→ VSS CAMERAS		✓		
→ VSS PROGRAMMING		✓		
→ VSS CABLING		✓		SEE NOTE 2.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION		✓		
RACEWAY: CONDUIT, BACK BOXES, SLEEVES, ETC.		✓		SEE NOTE 1.
ELECTRICAL POWER		✓		SEE NOTE 1.

OFOI - OWNER FURNISHED AND OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED AND CONTRACTOR INSTALLED

RESPONSIBILITY MATRIX NOTES:
1. BY DIVISION 26.
2. BY DIVISION 27.

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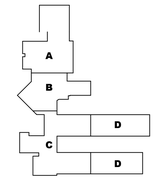
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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
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SHEET TITLE
TECHNOLOGY NOTES AND LEGENDS

SHEET NO.
T12.00

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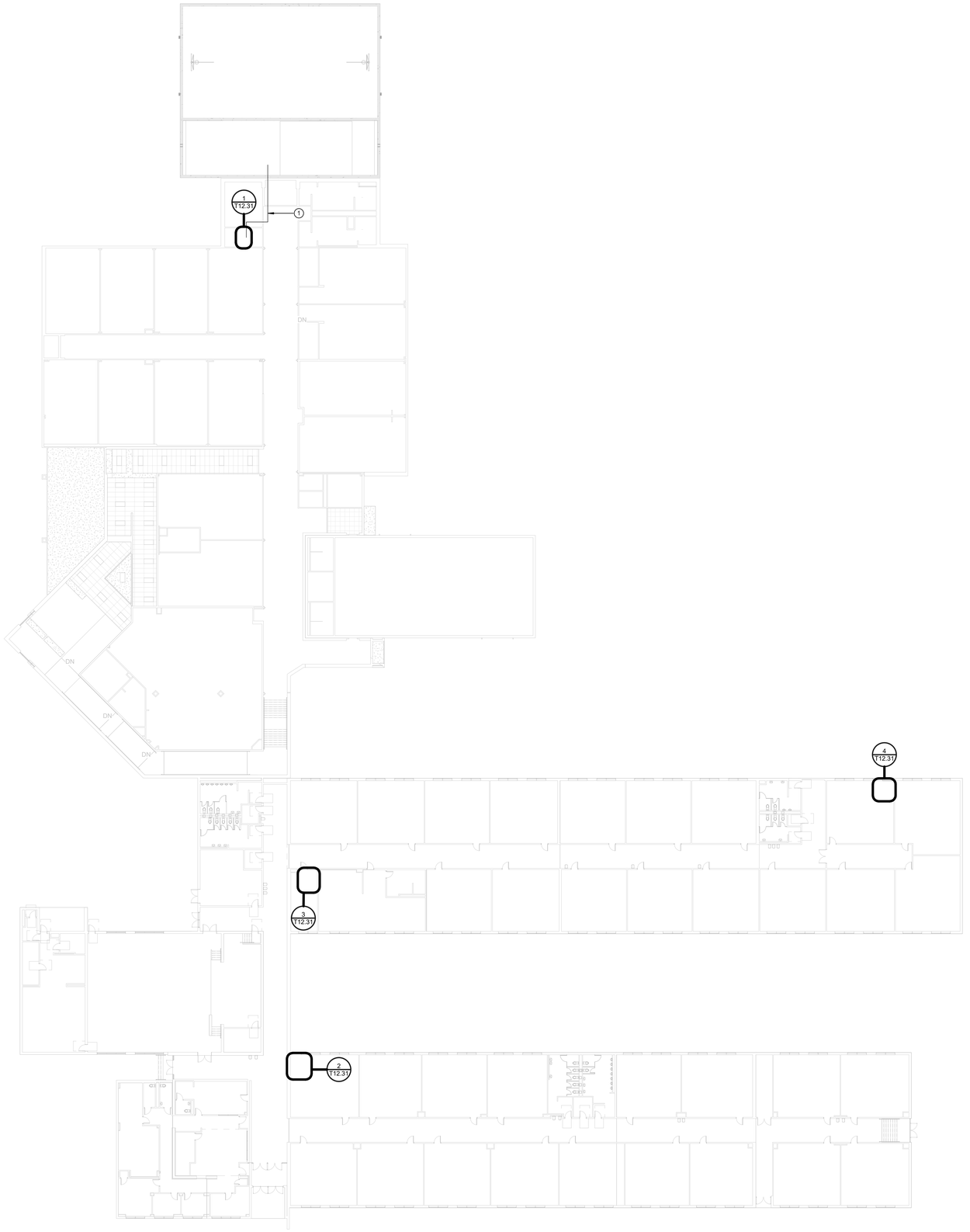
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TECHNOLOGY KEYED NOTES

1	PROVIDE THREE (3) 3" CONDUIT FROM EXISTING MDF TO NEW GYM ADDITION.



1 **TECHNOLOGY COMPOSITE PLAN**
Scale: 1" = 20'-0"

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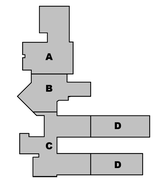
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SHEET TITLE
TECHNOLOGY COMPOSITE PLAN

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○ TECHNOLOGY KEYED NOTES ○

1	EXISTING EMERGENCY RADIO RACK TO BE RELOCATED.
2	EXISTING FIRE ALARM POWER SUPPLY TO BE RELOCATED.

TECHNOLOGY DEMOLITION GENERAL NOTES

A. CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
1. INTERCOM
2. STRUCTURED CABLING
3. ACCESS CONTROL
4. AUDIO VIDEO
5. VIDEO SURVEILLANCE
6. FIRE ALARM
7. INTRUSION

TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE FUNCTIONING IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

B. CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
1. INTERCOM DEVICES
2. WIRELESS ACCESS POINTS
3. TELEPHONES
4. VIDEO SURVEILLANCE CAMERAS
5. ACCESS CONTROL DEVICES
6. VIDEO PROJECTION DEVICES
7. VIDEO DISPLAY DEVICES

ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.

C. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

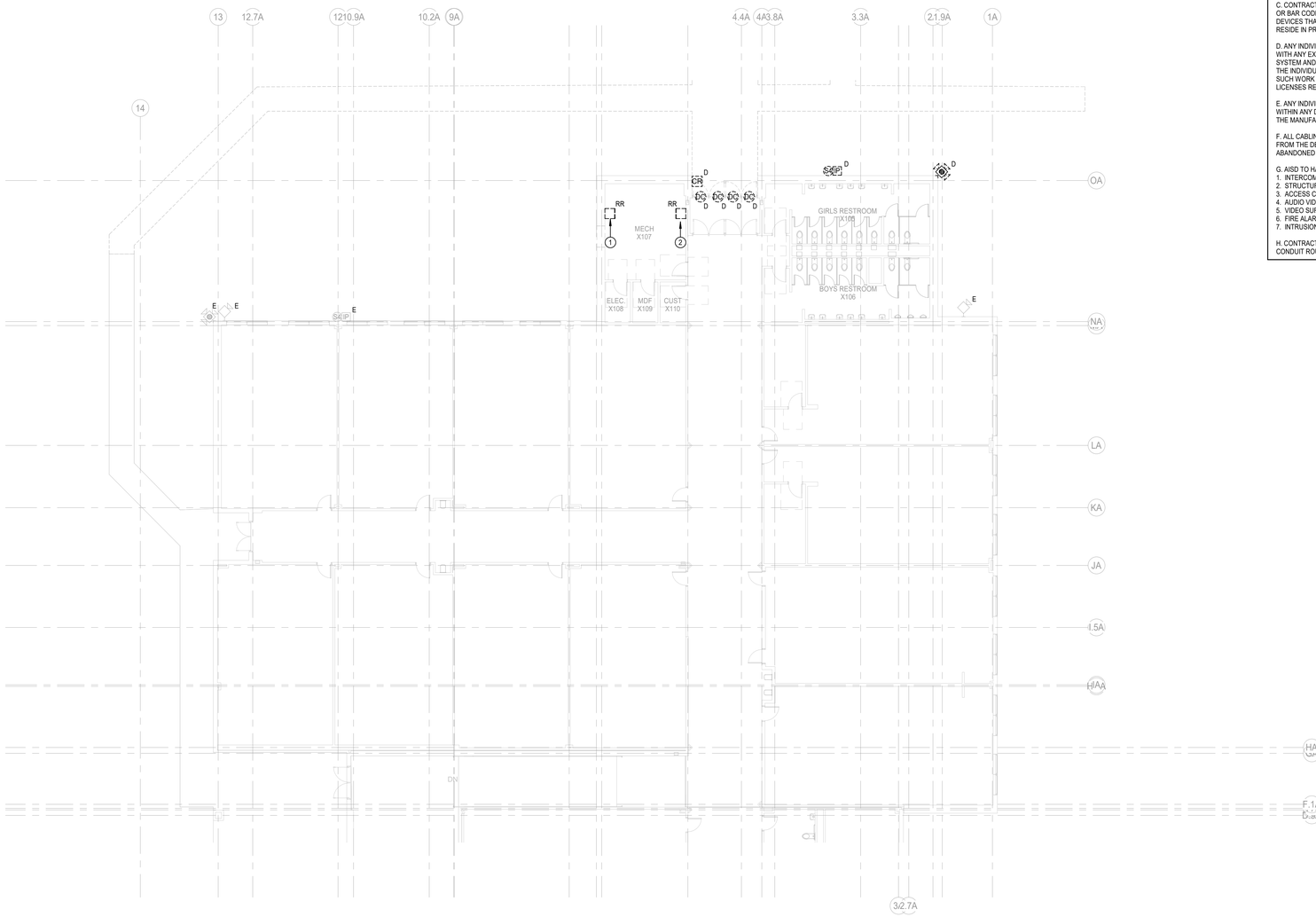
D. ANY INDIVIDUAL THAT WILL BE REMOVING. RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES; SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.

E. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING, REINSTALLING, OR TAMPERING WITHIN ANY DEVICES; SHALL BE LICENSED BY THE STATE, AS APPLICABLE, AND CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

F. ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.

G. AISD TO HAVE FIRST RIGHT OF REFUSAL TO ANY DEVICES INCLUDED BUT NOT LIMITED TO:
1. INTERCOM
2. STRUCTURED CABLING
3. ACCESS CONTROL
4. AUDIO VIDEO
5. VIDEO SURVEILLANCE
6. FIRE ALARM
7. INTRUSION

H. CONTRACTOR TO COORDINATE CONDUIT AND JUNCTION BOX PENETRATIONS AND ALL IN-WALL CONDUIT ROUTINGS IN BUILDING ENVELOPE WITH PRE-CAST WALL MANUFACTURER



1 **TECHNOLOGY PLAN - UNIT A DEMO**
Scale: 3/32" = 1'-0"

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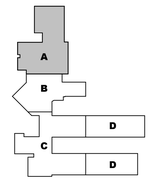
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
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DATE
04/27/2026

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SHEET TITLE
UNIT A - TECHNOLOGY PLAN - DEMO

SHEET NO.
T12.02

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TECHNOLOGY KEYED NOTES

1	REMOVE EXISTING TECHNOLOGY DEVICES AS REQUIRED FOR CONSTRUCTION FOR WORK TO BE COMPLETED UNDER ALTERNATE #2. PROPERLY LABEL, DISCONNECT, AND STORE DEVICES AND ASSOCIATED COMPONENTS. COORDINATE TEMPORARY OUTAGES AND REMOVAL WITH OWNER. RE-INSTALL DEVICES AFTER CONSTRUCTION IS COMPLETE, IN FINAL APPROVED LOCATIONS, AND RETURN ALL SYSTEMS TO FULL OPERATING CONDITION.

TECHNOLOGY DEMOLITION GENERAL NOTES

A. CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
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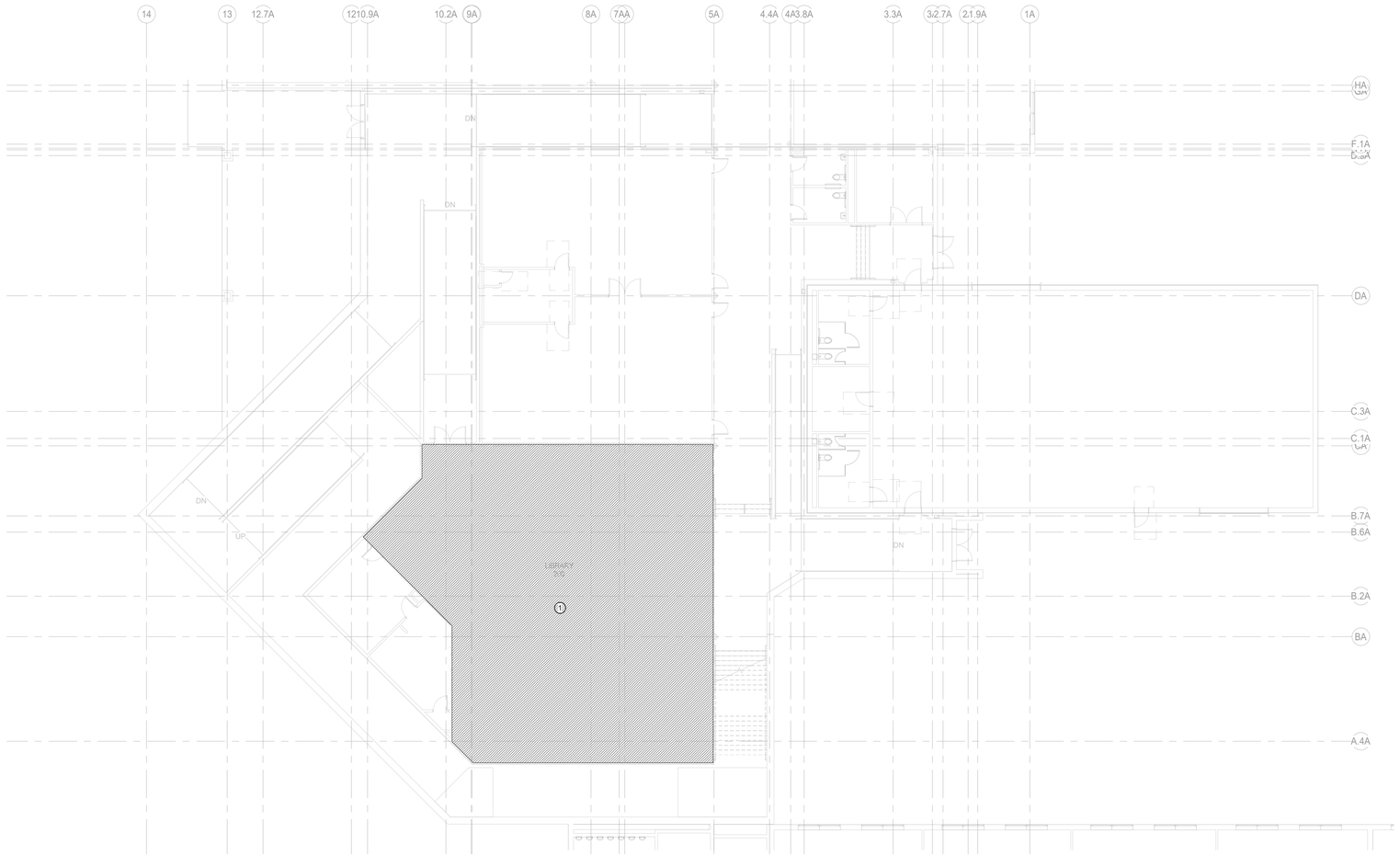
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3. ACCESS CONTROL
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5. VIDEO SURVEILLANCE
6. FIRE ALARM
7. INTRUSION

H. CONTRACTOR TO COORDINATE CONDUIT AND JUNCTION BOX PENETRATIONS AND ALL IN-WALL CONDUIT ROUTINGS IN BUILDING ENVELOPE WITH PRE-CAST WALL MANUFACTURER



1 **TECHNOLOGY PLAN - UNIT B DEMO**
Scale: 3/32" = 1'-0"

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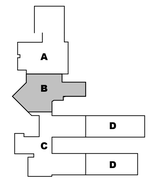
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

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SHEET TITLE
UNIT B - TECHNOLOGY PLAN - DEMO

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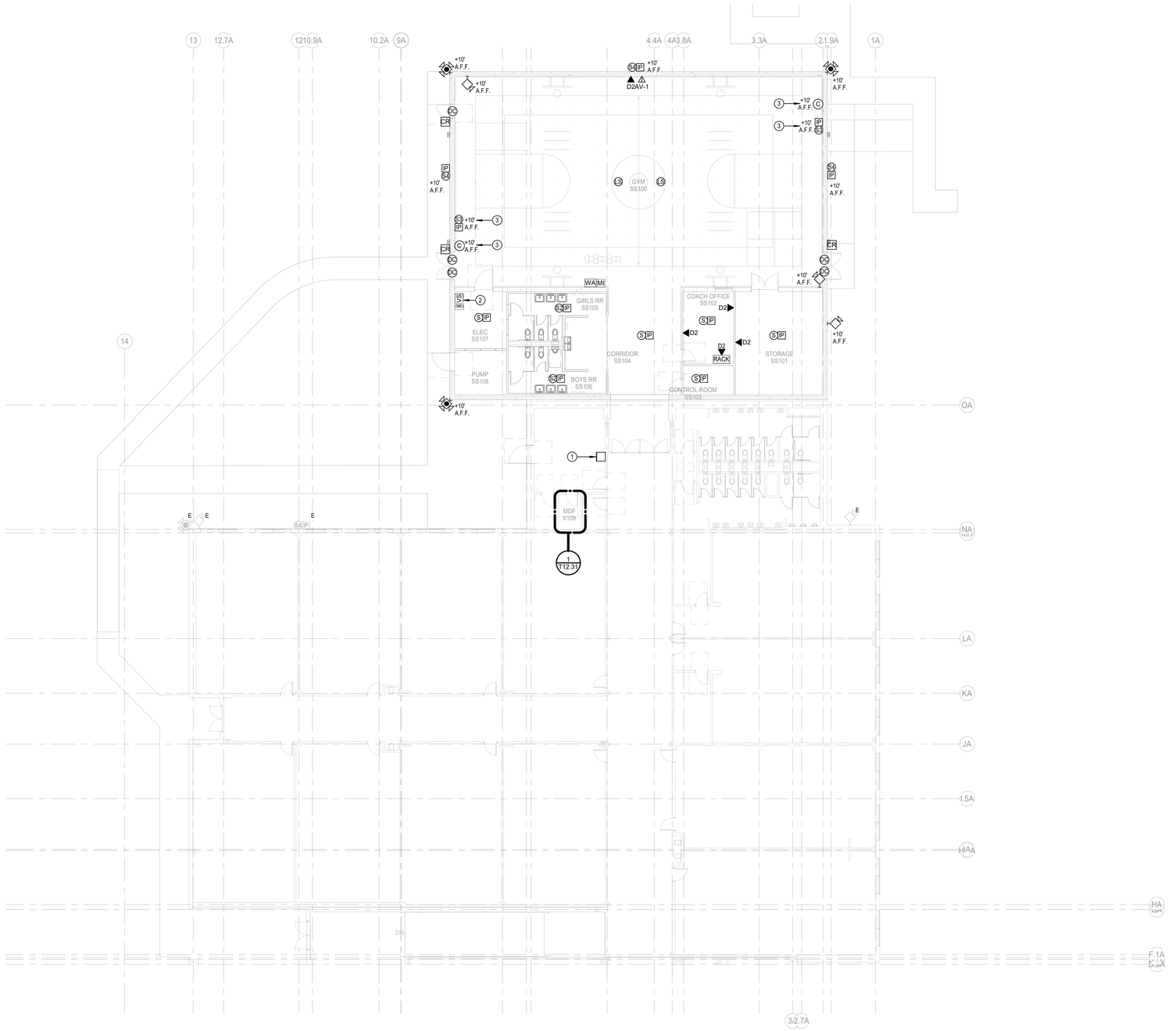
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TECHNOLOGY KEYED NOTES

1	FIRE ALARM POWER SUPPLY WITH WALL CABINET FOR EMERGENCY PHONE LOCATED UNDER CABINET.
2	PROVIDE EVS - EMERGENCY VOICE SYSTEM TO BE TRIGGERED BY EXISTING BUILDING FIRE ALARM CONTROL PANEL (FACP).
3	DEVICE TO BE PROVIDED WITH PROTECTIVE CAGE.



1 TECHNOLOGY PLAN - UNIT A

Scale: 3/32" = 1'-0"

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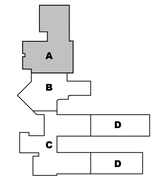
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REGISTERED ARCHITECT
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UNIT A - TECHNOLOGY PLAN

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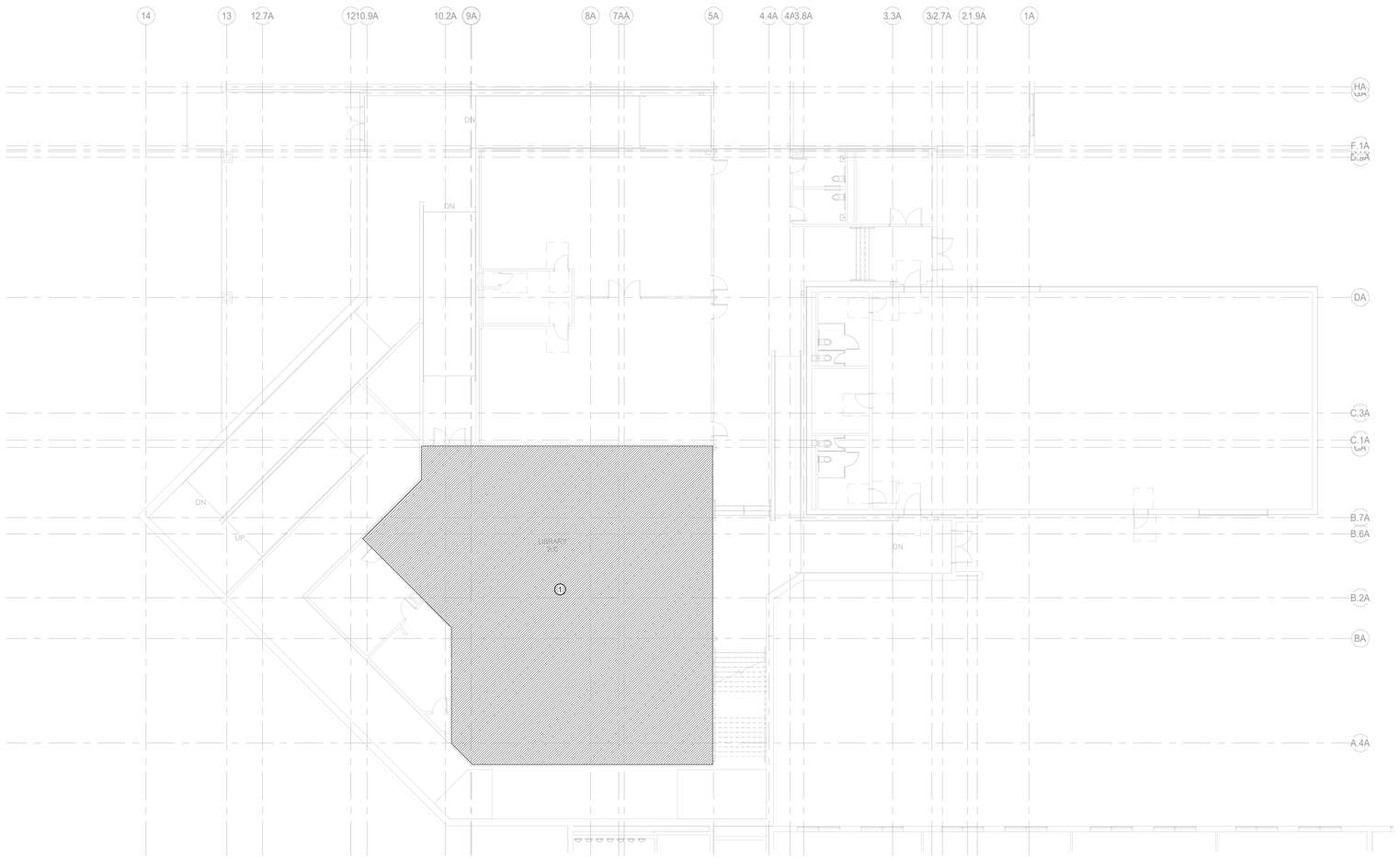
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TECHNOLOGY KEYED NOTES

1	REMOVE EXISTING TECHNOLOGY DEVICES AS REQUIRED FOR CONSTRUCTION FOR WORK TO BE COMPLETED UNDER ALTERNATE #2. PROPERLY LABEL, DISCONNECT, AND STORE DEVICES AND ASSOCIATED COMPONENTS. COORDINATE TEMPORARY OUTAGES AND REMOVAL WITH OWNER. RE-INSTALL DEVICES AFTER CONSTRUCTION IS COMPLETE, IN FINAL APPROVED LOCATIONS, AND RETURN ALL SYSTEMS TO FULL OPERATING CONDITION.



1 TECHNOLOGY PLAN - UNIT B

Scale: 3/32" = 1'-0"

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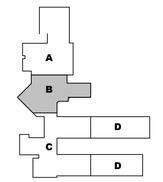
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KEY PLAN

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04/27/2026

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UNIT B - TECHNOLOGY PLAN

SHEET NO.

T12.13

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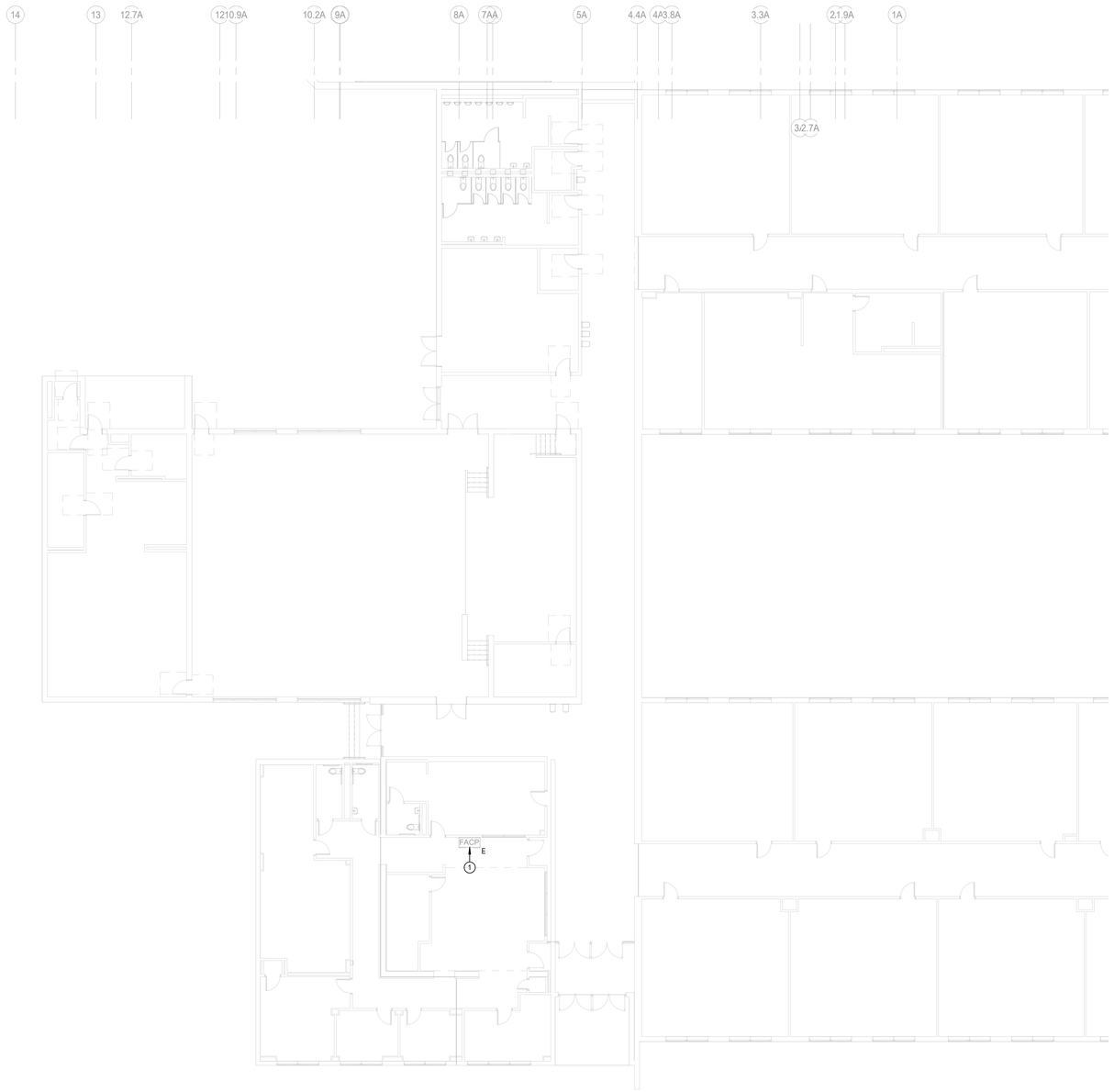
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TECHNOLOGY KEYED NOTES

1	EXISTING FIRE ALARM CONTROL PANEL.



1 TECHNOLOGY PLAN - UNIT C

Scale: 3/32" = 1'-0"

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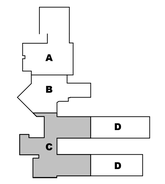
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89636
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04/27/2026



KEY PLAN

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04/27/2026

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SHEET TITLE

UNIT C - TECHNOLOGY PLAN

SHEET NO.

T12.14

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106 Decker Drive, Suite 200
Irving, TX 75062

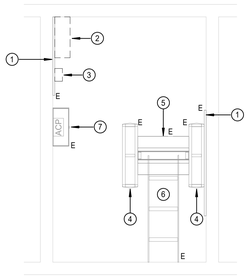
Registration: F-4111
Project No: 2550-02052

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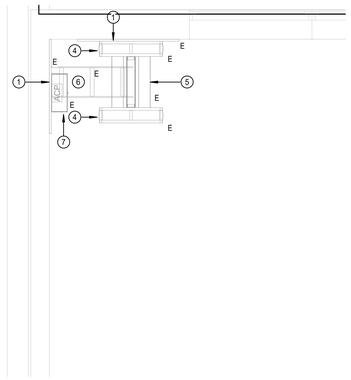
○ TECHNOLOGY KEYED NOTES ○

1	EXISTING FIRE RATED PLYWOOD TO REMAIN.
2	EXISTING INCOMING FIBER SERVICE ENTRANCE TO REMAIN.
3	EXISTING 66-PUNCH DOWN BLOCK TO REMAIN.
4	EXISTING VERTICAL CABLE MANAGER TO REMAIN.
5	EXISTING 2-POST NETWORK RACK TO REMAIN.
6	EXISTING LADDER RACK TO REMAIN.
7	EXISTING ACCESS CONTROL PANEL TO REMAIN.



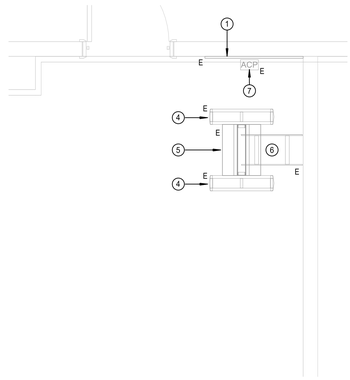
1 **TECHNOLOGY EXISTING ENLARGED PLAN - MDF**
Scale: 1/2" = 1'-0"

NOT IN TECHNOLOGY SCOPE - SHOWN FOR REFERENCE ONLY.



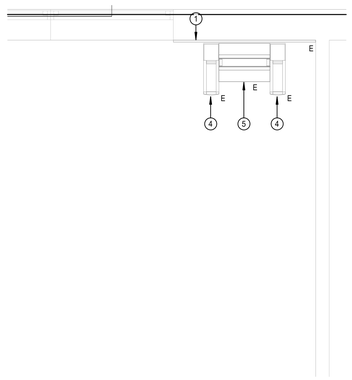
2 **TECHNOLOGY EXISTING ENLARGED PLAN - IDF 101**
Scale: 1/2" = 1'-0"

NOT IN TECHNOLOGY SCOPE - SHOWN FOR REFERENCE ONLY.



3 **TECHNOLOGY EXISTING ENLARGED PLAN - IDF 132**
Scale: 1/2" = 1'-0"

NOT IN TECHNOLOGY SCOPE - SHOWN FOR REFERENCE ONLY.



4 **TECHNOLOGY EXISTING ENLARGED PLAN - IDF 147**
Scale: 1/2" = 1'-0"

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STRUCTURAL

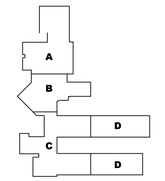
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WIMBISH
WORLD LANGUAGE ACADEMY

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
ENLARGED TECHNOLOGY PLAN

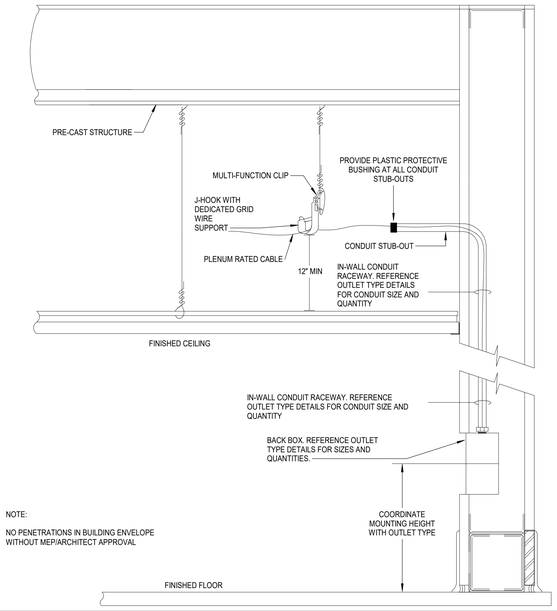
SHEET NO.
T12.31

Salas O'Brien
salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
Irving, TX 75062

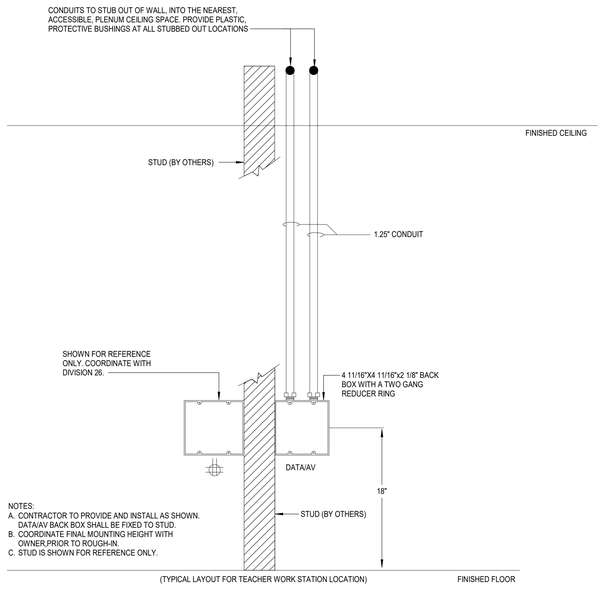
Registration: F-4111
Project No: 2550-02052

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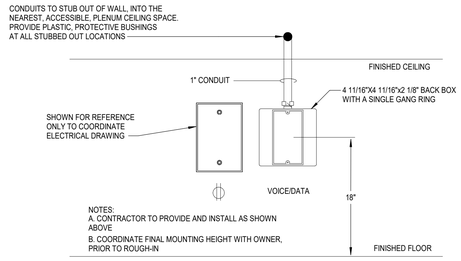
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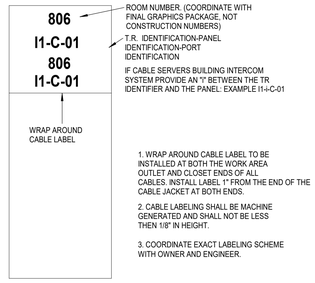
01 LOW VOLTAGE ELEVATION - IN-WALL RACEWAY — NOT TO SCALE



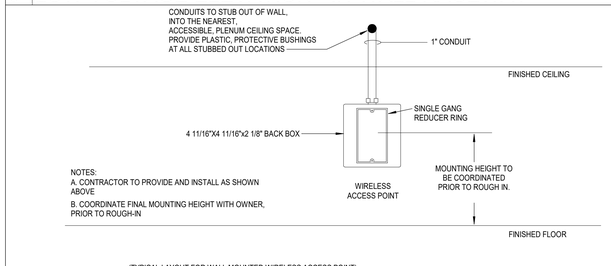
02 RACEWAY DETAIL - TYPICAL INSTRUCTORS OUTLET — NOT TO SCALE



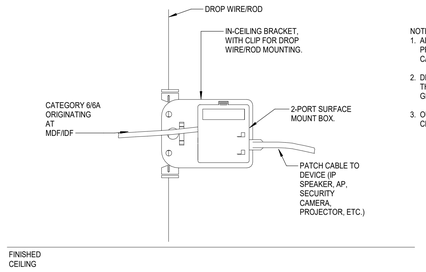
03 RACEWAY DETAIL - TYPICAL VOICE/DATA OUTLET — NOT TO SCALE



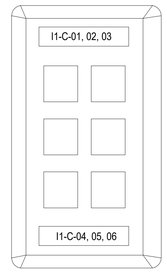
04 CABLE LABEL DETAIL — NOT TO SCALE



05 RACEWAY DETAIL - WALL MOUNTED WIRELESS AP — NOT TO SCALE



06 ABOVE CEILING STAND ALONE OUTLET — NOT TO SCALE



07 FACEPLATE LABEL DETAIL — NOT TO SCALE

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CCA LANDSCAPE ARCHITECTS
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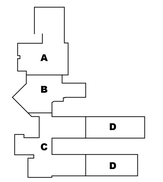
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KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

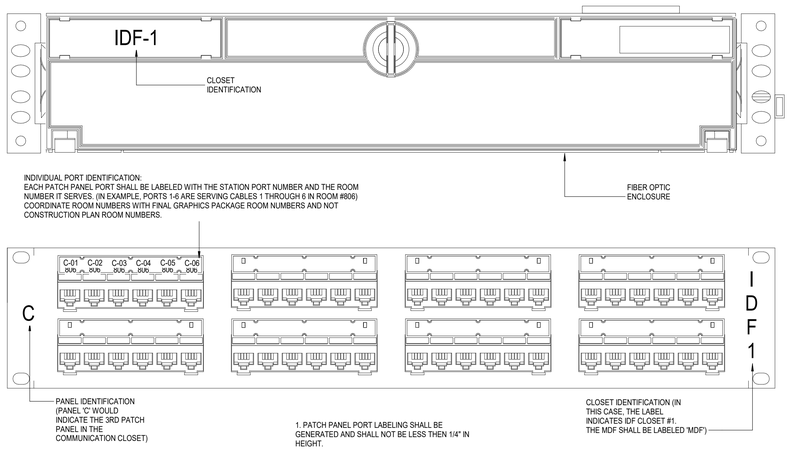
SHEET TITLE
TECHNOLOGY DETAILS

SHEET NO.
T12.41

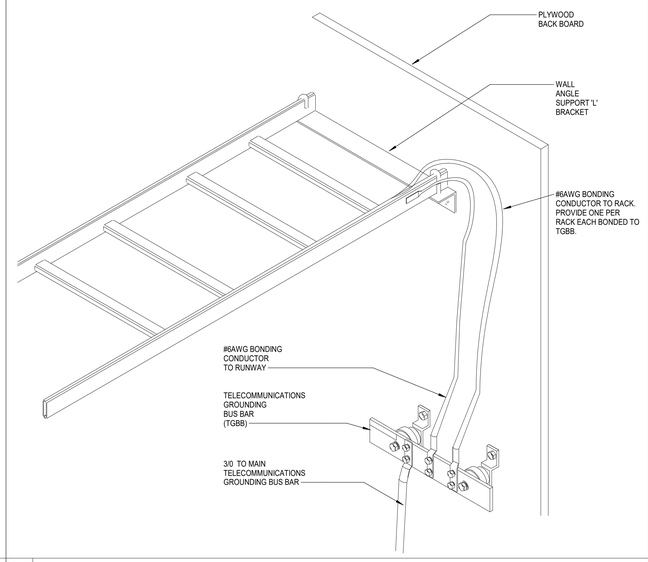
Salas O'Brien
salasobrien.com 972-812-1270
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Irving, TX 75062

Registration: F-4111
Project No: 2550-02052

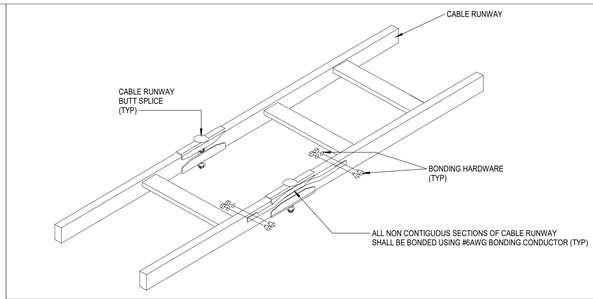
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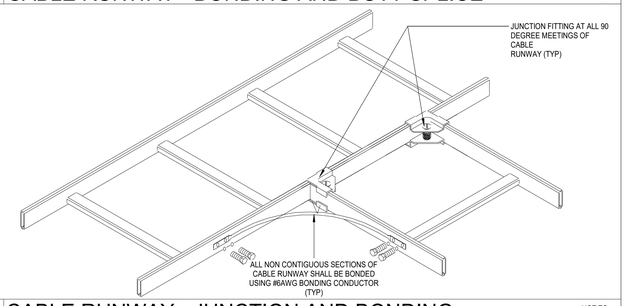
01 FIBER ENCLOSURE/ COPPER PATCH PANEL LABELING DETAIL — NOT TO SCALE



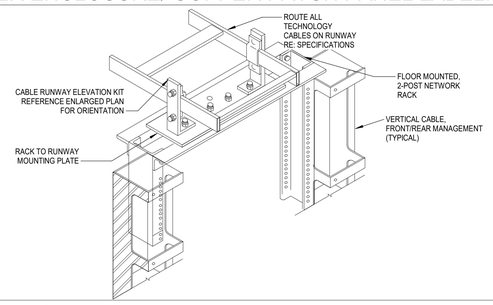
02 CABLE RUNWAY - GROUNDING AND BONDING — NOT TO SCALE



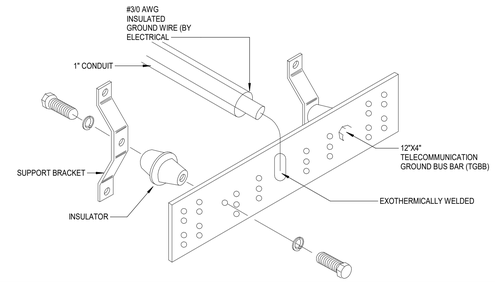
03 CABLE RUNWAY - BONDING AND BUTT SPLICE — NOT TO SCALE



04 CABLE RUNWAY - JUNCTION AND BONDING — NOT TO SCALE



05 RACK TO RUNWAY DETAIL — NOT TO SCALE



06 TELECOMMUNICATION GROUNDING BUS DETAIL — NOT TO SCALE

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LANDSCAPE
CCA LANDSCAPE ARCHITECTS
12700 HILLCREST ROAD, SUITE 149
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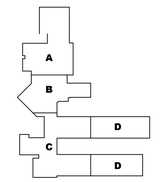
MEP
SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
IRVING, TEXAS 75062
(972) 812-1270

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WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS — KEITH W. GASSMAN — 89636 — LICENSED PROFESSIONAL ENGINEER — 04/27/2026



KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

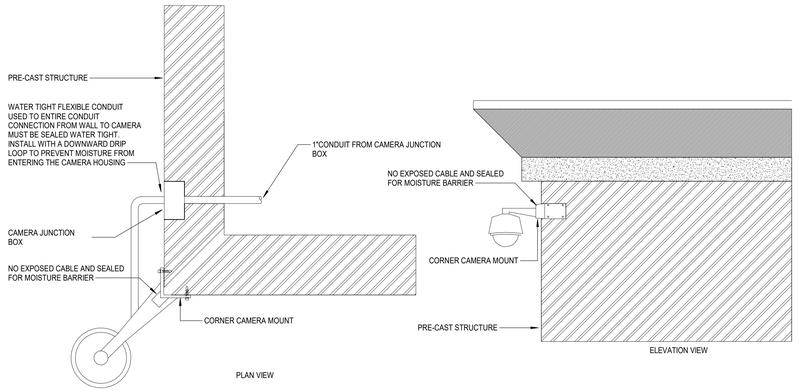
ISSUE
BID SET

SHEET TITLE
TECHNOLOGY DETAILS

SHEET NO.
T12.42

Salas O'Brien
salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
Irving, TX 75062
Registration: F-4111
Project No: 2550-02052

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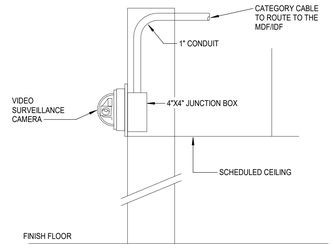


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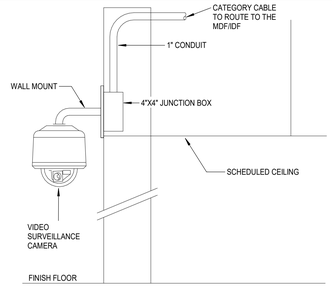
A. ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT WITH PULL STRING TO NEAREST AVAILABLE PLENUM SPACE. SECURITY CONTRACTORS SHALL PROVIDE CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

B. NO PENETRATIONS IN BUILDING ENVELOPE WITHOUT MEP/ARCHITECT APPROVAL

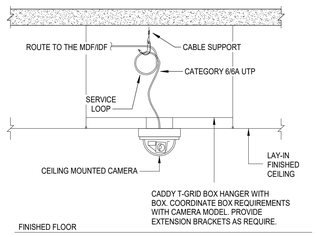
01 CORNER MOUNTING DETAIL — NOT TO SCALE



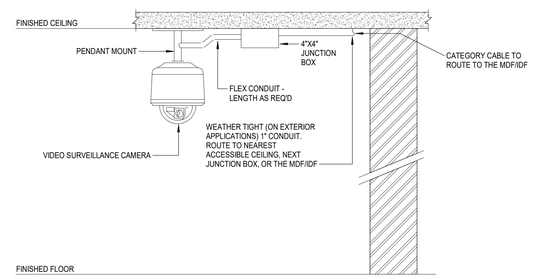
02 INTERIOR WALL MOUNT CAMERA-VERTICAL — NOT TO SCALE



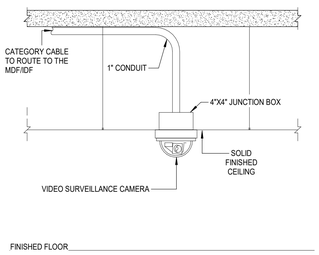
03 INTERIOR WALL MOUNTED DOME CAMERA — NOT TO SCALE



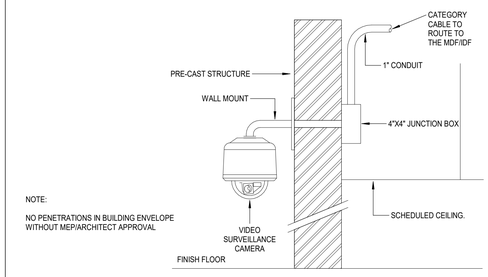
04 INTERIOR LAY-IN CEILING MOUNTED CAMERA — NOT TO SCALE



05 EXT./INT. PENDANT MOUNTED DOME CAMERA — NOT TO SCALE



06 EXTERIOR/INTERIOR SOLID CEILING MOUNT CAMERA — NOT TO SCALE



NOTE:

NO PENETRATIONS IN BUILDING ENVELOPE WITHOUT MEP/ARCHITECT APPROVAL

07 EXTERIOR WALL MOUNTED DOME CAMERA — NOT TO SCALE

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS AND BACK BOXES. CONDUITS SHALL ROUTE TO THE NEAREST, ACCESSIBLE PLENUM SPACE.

B. ALL WALL, CORNER, PENDANT, AND UNDER CANOPY MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE OWNER AND SECURITY CONSULTANT PRIOR TO ROUGH-IN.

C. SECURITY CONTRACTOR SHALL PROVIDE CAMERAS, MOUNTING HARDWARE, AND ANY OTHER COMPONENTS AND/OR HARDWARE REQUIRED FOR A COMPLETE INSTALLATION.

D. REFERENCE VIDEO SURVEILLANCE CAMERA SCHEDULES, FLOOR PLANS, AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

E. CABLE FEED-THROUGH MOUNT FOR CAMERA. NO EXPOSED CABLE WILL BE ALLOWED. SECURITY CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

08 NOTES — NOT TO SCALE

HKS

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MEP

SALAS O'BRIEN
106 DECKER DRIVE, SUITE 200
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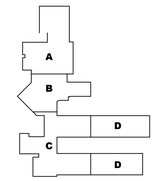
STRUCTURAL

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KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
TECHNOLOGY DETAILS

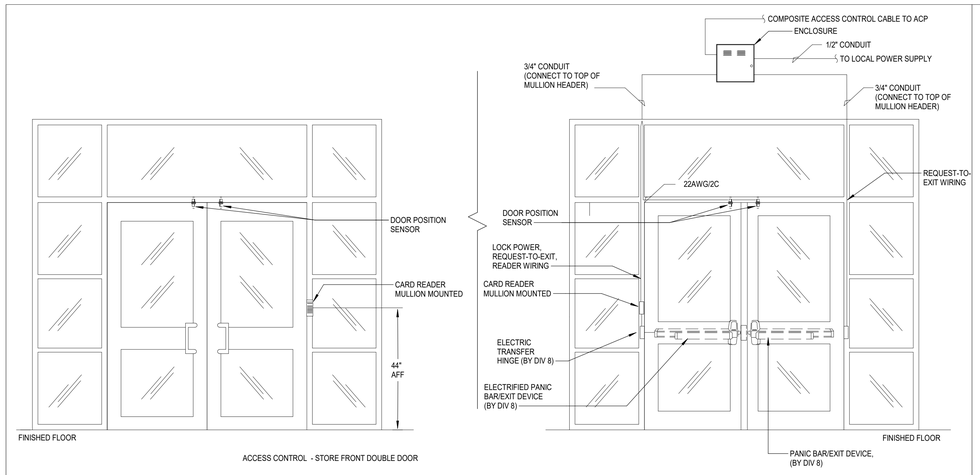
SHEET NO.
T12.43

Salas O'Brien
salasobrien.com 972-812-1270
Irving
106 Decker Drive, Suite 200
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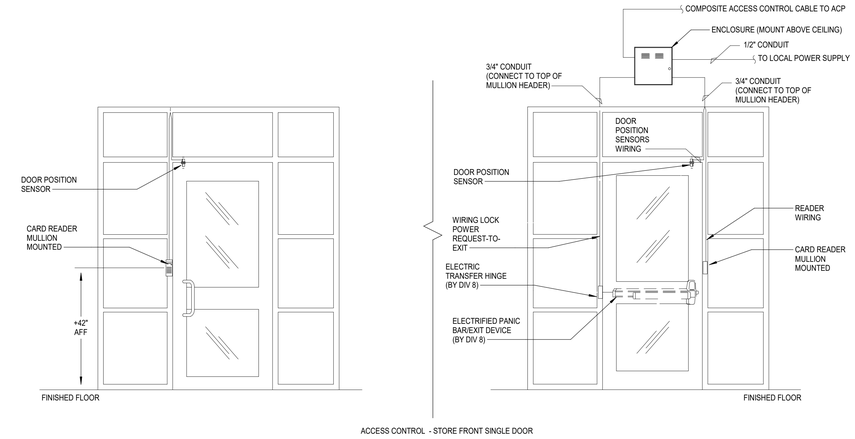
Registration: F-4111
Project No: 2550-02052

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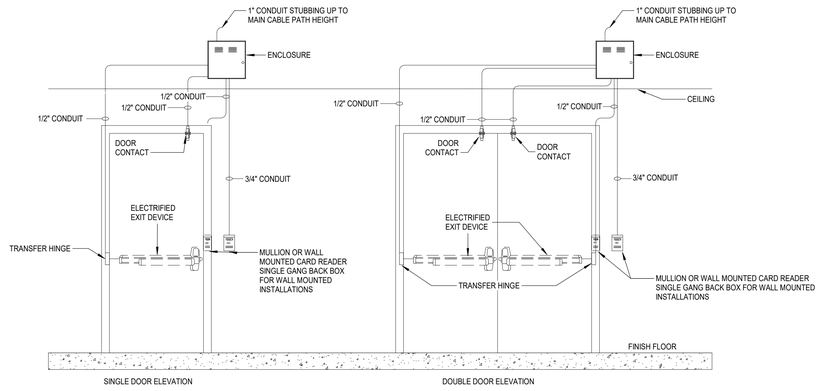
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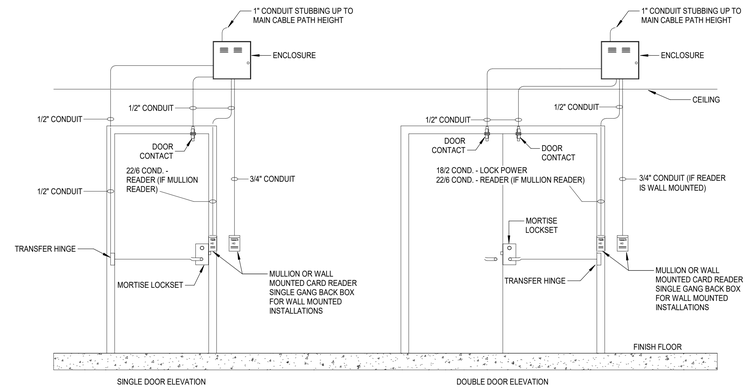
01 ACCESS CONTROL - STORE FRONT DOUBLE DOOR NOT TO SCALE



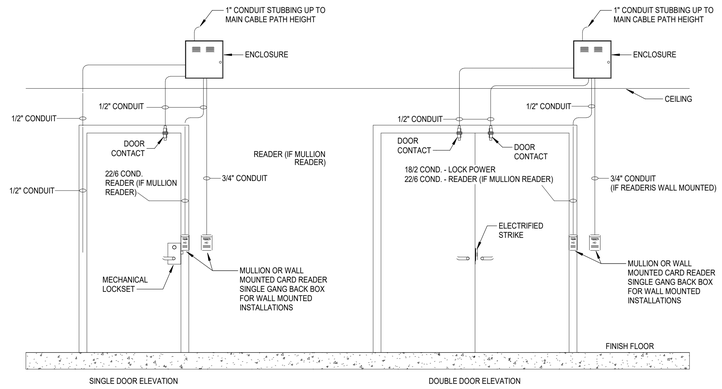
02 ACCESS CONTROL - STORE FRONT SINGLE DOOR NOT TO SCALE



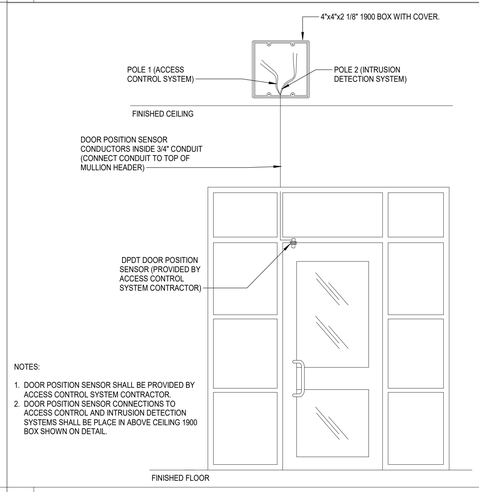
03 ACCESS CONTROL - EXIT DEVICE DOOR ELEVATION NOT TO SCALE



04 ACCESS CONTROL - MORTISE LOCK DOOR ELEVATION NOT TO SCALE



05 ACCESS CONTROL - ELECTRIFIED STRIKE DOOR ELEVATION NOT TO SCALE



NOTES:

1. DOOR POSITION SENSOR SHALL BE PROVIDED BY ACCESS CONTROL SYSTEM CONTRACTOR.
2. DOOR POSITION SENSOR CONNECTIONS TO ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS SHALL BE PLACE IN ABOVE CEILING 1900 BOX SHOWN ON DETAIL.

06 DOOR POSITION SENSOR ELEVATION NOT TO SCALE

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(817) 732-9839

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CCA LANDSCAPE ARCHITECTS
12700 HILLCREST ROAD, SUITE 149
DALLAS, TEXAS 75230
(214) 739-9105

MEP
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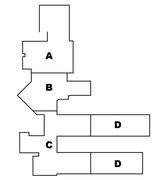
STRUCTURAL
HKS, INC
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(214) 969-5599

WIMBISH WORLD LANGUAGE ACADEMY

SEAL & SIGNATURE

STATE OF TEXAS
KEITH W. GASSMAN
89636
REGISTERED
04/27/2026

KEY PLAN



REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
26399.005

DATE
04/27/2026

ISSUE
BID SET

SHEET TITLE
TECHNOLOGY DETAILS

SHEET NO.
T12.44

Salas O'Brien
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Irving
106 Decker Drive, Suite 200
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Registration: F-4111
Project No: 2550-02052

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