BINDING EDGE

CONSTRUCTION DOCUMENTS

PASADENA ISD SOFTBALL COMPLEX

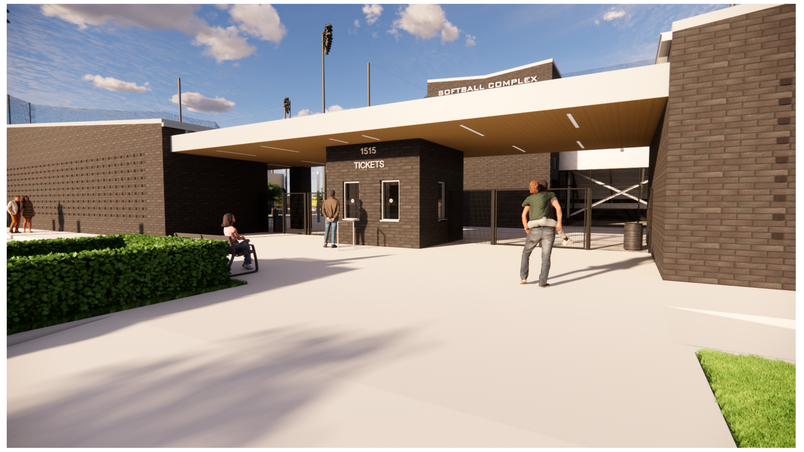
CSP No. 26P-024LP

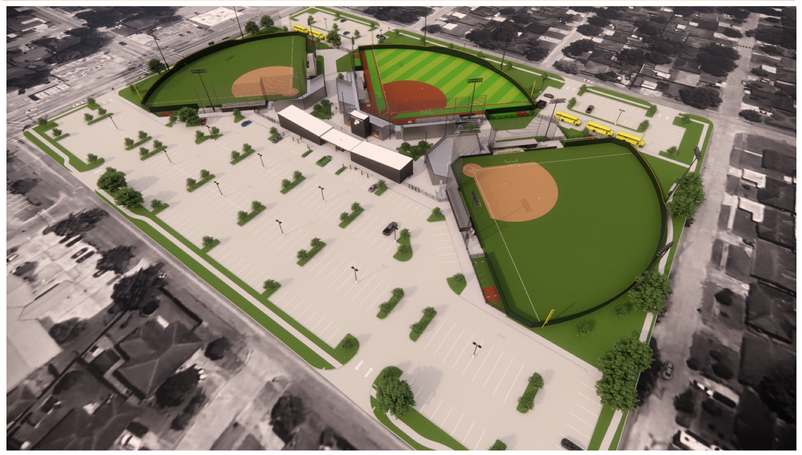
1515 Cherrybrook Lane
Pasadena, Texas 77502

Pasadena Independent School District

10 November 2025







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PASADENA ISD SOFTBALL COMPLEX
CONSTRUCTION DOCUMENTS

BINDING EDGE

BINDING EDGE

SYMBOL LEGEND

Symbol	Description
A101	DOOR TAG
CLASSROOM (ROOM NAME) / A101 (ROOM NUMBER)	ROOM NUMBER TAG
8	WINDOW TAG
8	COLUMN BUBBLE
8 (INDICATES DETAIL NUMBER) / A6.01 (INDICATES SHEET NUMBER)	SECTION MARK
8 (INDICATES DETAIL NUMBER) / A5.01 (INDICATES SHEET NUMBER)	ELEVATION MARK
8	PARTITION TAG
8 (INDICATES DETAIL NUMBER) / A7.01 (INDICATES SHEET NUMBER)	CASEWORK ELEVATION
FEC	FIRE EXTINGUISHER CABINET
8 (INDICATES DETAIL NUMBER) / A10.01 (INDICATES SHEET NUMBER)	PLAN DETAIL
02.01.08	KEYNOTE

2021 IECC REQUIREMENTS

ENERGY CONSERVATION CODE (IECC) - Climate Zone : 2A (Table Figure 301.1)

BUILDING THERMAL & ACOUSTICAL ENVELOPE

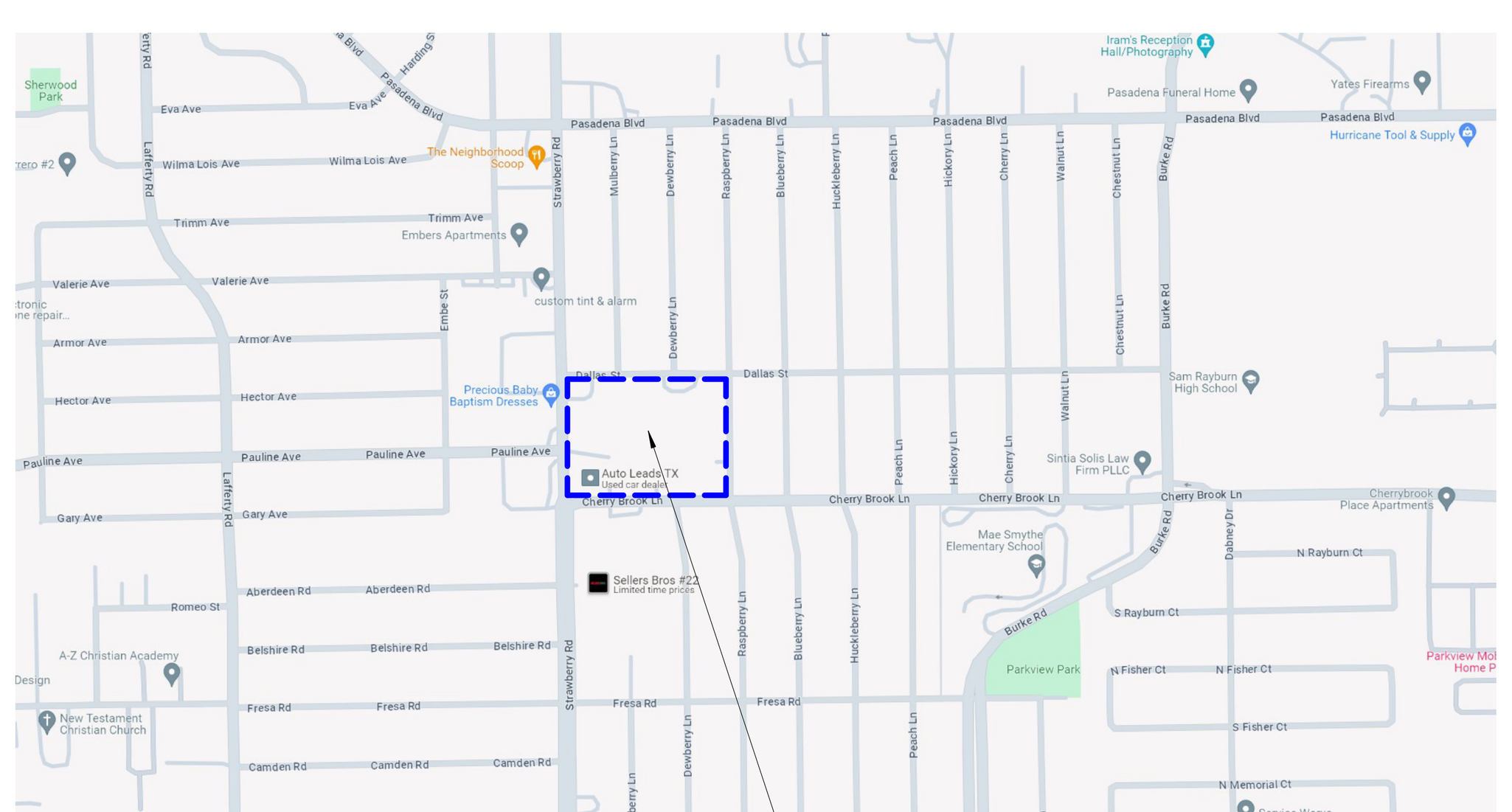
ROOF ASSEMBLIES			R-Value	U-Value
RA-1	Low Slope Roof Assembly	Roof membrane over (2) 5/8" cover board over 3" stone wool insulation board over 3" thick polyiso rigid insulation board on metal deck with rockwool filled flute.	38.56	0.026
WALL ASSEMBLIES (At Conditioned Spaces)			R-Value	U-Value
WA-1	Exterior Wall	Face brick, air cavity, 1 1/2-inch-thick R-6 mineral wool continuous insulation board, air/moisture barrier on CMU	7.50	0.134
WA-3	Exterior Wall	Metal Wall Panel, 1 1/2-inch-thick R-6 mineral wool continuous insulation board, air/moisture barrier on CMU.	6.80	0.148
WA-5	Aluminum/glass storefront	Insulated glass in aluminum storefront framing, low-e coating on #2 surface, 6mm outboard substrate; ½-inch air gap, 6mm/.090 PVB/6mm inboard substrate, SHGC 0.25, U-Value 0.26		.45
Floor Assembly (Pressbox)				
FA -0 1	Floor Slab	Resilient Floor, Concrete on Metal Deck and R-30 Insulation	30	0.033

MATERIALS LEGEND

(NOT ALL MATERIALS MAY BE USED)

EARTH	ACOUSTICAL TILE
CONCRETE	INSULATION (LOOSE OR BATT)
PLASTER	INSULATION (RIGID)
BRICK	WOOD BLOCKING
CONCRETE MASONRY UNIT	PLYWOOD
CAST STONE	GYPSUM BOARD
STEEL	EXTERIOR INSULATION FINISH SYSTEM

VICINITY MAP



PROJECT SITE
1515 CHERRYBROOK LANE,
PASADENA, TEXAS 77502

N

CODE INFORMATION

PROJECT: Pasadena ISD Softball Complex

CODES:
- BUILDING CODE: 2021 International Building Code
- MECHANICAL CODE: 2021 International Mechanical Code
- PLUMBING CODE: 2021 Uniform Plumbing Code
- ELECTRICAL CODE: 2023 National Electrical Code
- ENERGY CODE: 2021 International Energy Conservation Code
- FIRE CODE: 2021 International Fire Code
- ACCESSIBILITY: 2012 Texas Accessibility Standards

SCOPE OF WORK: New Softball Fields, Press Box, Concessions & Restroom Facilities.

OCCUPANCY CLASSIFICATION (Chap. 3):
Assembly Group A-5 (Sec. 303.6)

MIXED USE AND OCCUPANCY (Sec. 508): No

TYPE OF CONSTRUCTION (Chap. 6):
Type IIB - Non Sprinklered: Restrooms, Ticket Booth, Concessions, Officials, Storage & Pressbox
Type III - Non Sprinklered: Team Dugouts

ALLOWABLE BUILDING HEIGHT / NO. OF STORIES (Table 504.3/ 504.4):
Occupancy Group A: 55 ft. / Unlimited stories

ALLOWABLE AREA PER FLOOR (Table 506.2):
Occupancy Group A-5: UL

BUILDING FLOOR AREA:

Ground Level: 3,887 sf - Restrooms, Ticket Booth, Concessions, Officials & Storage.

Ground Level: 4300 sf - Dugouts at Fields A, B and C

Total Building Area: 5,010 sf

FIRE PROTECTION REQUIREMENTS: Type IIB - Sprinklered (Table 601)

Primary Structural Frame	0 Hr
Bearing Walls, Exterior	0 Hr
Bearing Walls, Interior	0 Hr
Nonbearing Walls, Exterior	0 Hr
Nonbearing Walls, Interior	0 Hr
Floor Construction & Secondary Members	0 Hr
Roof Construction & Secondary Members	0 Hr
Corridor Fire Resistance Rating (Sec.1018.1)	0 Hr

Automatic Sprinkler System (Sec 903)
Automatic Sprinkler System not required (903.2.1.5) for A5 accessory use areas & spaces less than 1,000 SF .
Automatic Sprinkler System not required for unenclosed area under bleachers (903.2.1.5.1).

INTERIOR WALL AND CEILING FINISHES (Table 803.13)

Interior Exit Stairways & Ramps (Non sprinklered bldg.):	Class A
Corridors (nonsprinklered bldg):	Class A
Rooms and Enclosed Spaces:	Class B

PORTABLE FIRE EXTINGUISHERS (Sec. 906, IFC Sec. 906): Required. 75 Feet.

FIRE ALARM AND DETECTION SYSTEMS (Sec. 907.2.1): A manual Fire Alarm System is required.

OCCUPANT LOAD FOR EXITING REQUIREMENTS (Table 1004.1.2)

Grandstands: Fixed Seating (1 seat/ 18" linear) = 2000

EXIT SIGNS (Sec. 1011.1): Required at exits and exit access doors; in exit access corridors, spaced no more than 100 ft. apart or the listed viewing distance for the sign.

EXITING REQUIREMENTS:
Stairway width (Sec. 1030.6.3): Based on occupant load: 2000 x 0.08 (Open Air Assembly Seating) = 160" Total
Field A: 1000 x 0.08= 80" Required/ 312" Provided
Field B: 500 X 0.08 = 40" Required/ 132" Provided
Field C: 500 X 0.08 = 40" Required/ 132" Provided

Exit Access Travel Distance (Table 1017.2): 200 Ft.
Corridor width (Sec. 1018.2): 44 inches minimum.

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (UPC Table 422.1):

Fixtures required for A5 Assembly Occupancy – (2000 occupants).

Males (1000)
Water Closets Required: 8
Water Closets Provided: 15

Lavatories Required: 4
Lavatories Provided: 7

Females (1000)
Water Closets Required: 13
Water Closets Provided: 26

Lavatories Required: 8
Lavatories Provided = 12

Drinking Fountains Required: 3
Drinking Fountains Provided: 3

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Grand total: 139	

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District



Revision Schedule

NO.	ISSUE	DATE

Sheet Information

Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

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Sheet

A0.01

CONSTRUCTION DOCUMENTS

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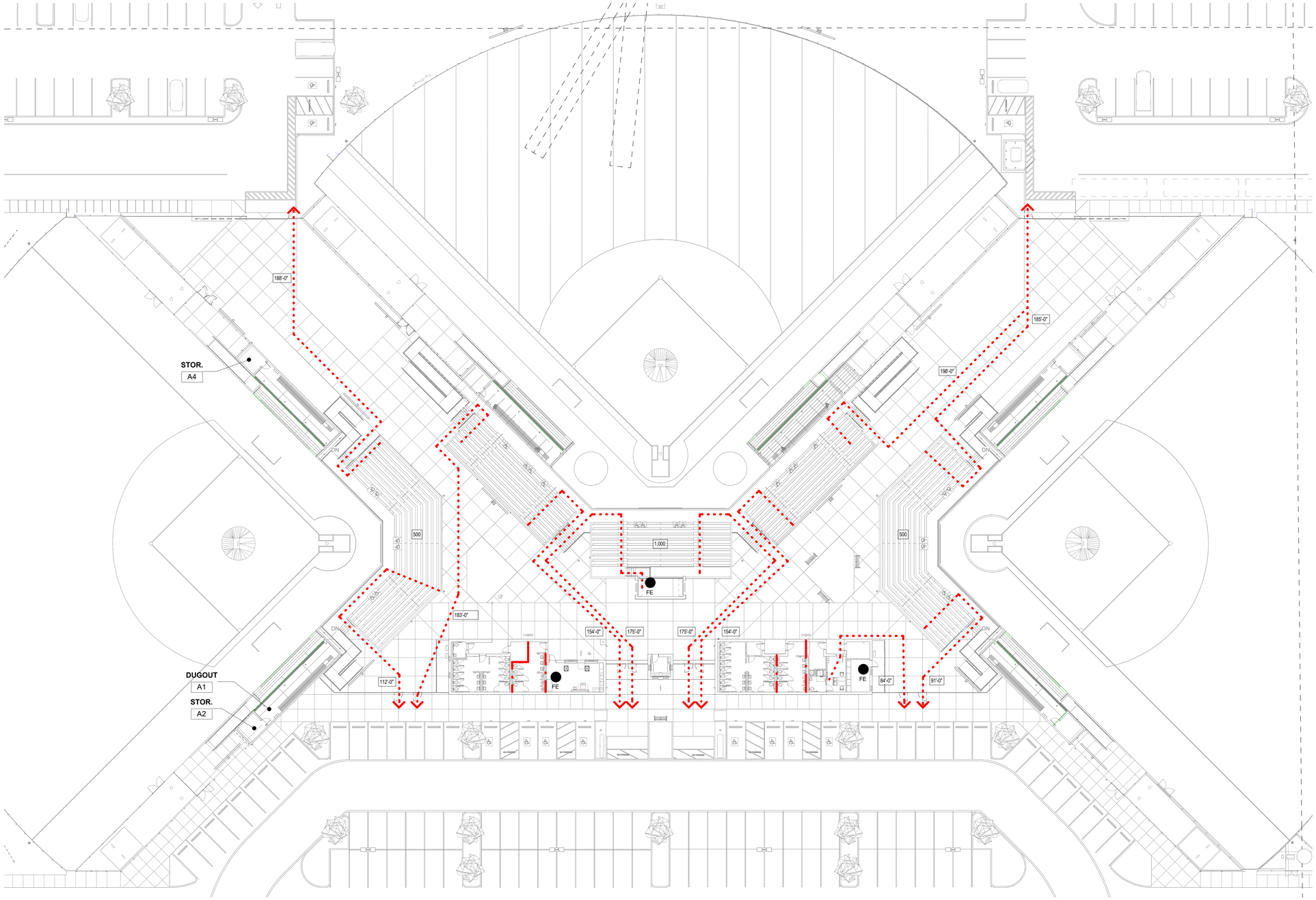


1 LIFE SAFETY PLAN
1" = 20'-0"

LEGEND

- 2 HOUR FIRE WALL
- 1 HOUR FIRE BARRIER
- 0'-0" INDICATES TRAVEL DISTANCE (250' MAXIMUM WITH SPRINKLER)
- EMERGENCY EXIT
- FEC FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER (WALL MOUNTED)

Required Exit Width Calculations

(IBC 2021 1030.6.3) Open Air Assembly Seating

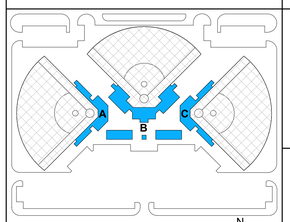
OCCUPANT CAPACITY = 2,000

MEANS OF EGRESS EXIT WIDTH FACTOR = .02 INCHES/ OCCUPANT

OCCUPANTS X WIDTH FACTOR = REQUIRED EXIT WIDTH

2,000 X 0.08 = 160 INCHES

TOTAL REQUIRED WIDTH = 160 INCHES
TOTAL PROVIDED WIDTH = **480 INCHES**



TRUE NORTH

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT
JERRY G. BEVEL
10153
STATE OF TEXAS

14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

LIFE SAFETY PLAN

Sheet

A0.10

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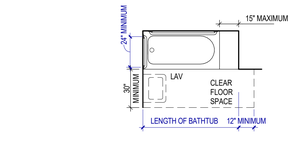
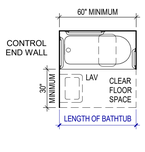


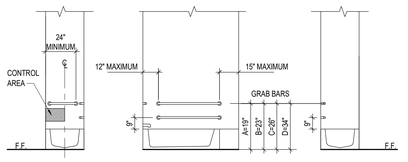
BATHTUB WITH PERMANENT SEAT



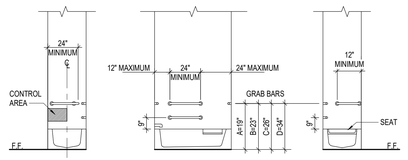
BATHTUB WITH REMOVEALBE SEAT



PREFERRED PLAN

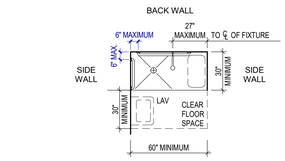


BATHTUB WITH SEAT AT HEAD OF TUB ELEVATIONS

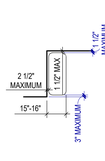


BATHTUB WITH SEAT IN TUB ELEVATIONS

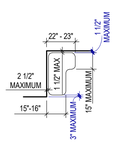
BATHTUB



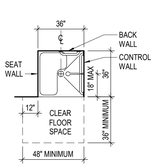
ROLL-IN SHOWER PLAN



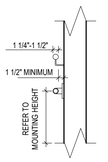
RECTANGULAR SHOWER SEAT PLAN



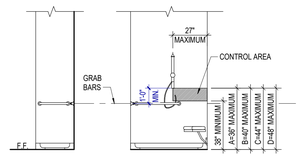
L-SHAPED SHOWER SEAT PLAN



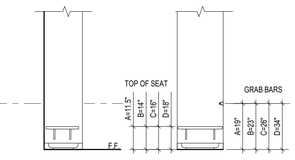
SHOWER STALL PLAN

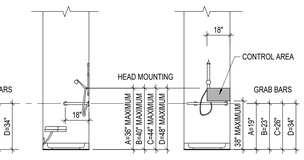


GRAB BAR DETAILS



30" X 60" STALL ELEVATIONS





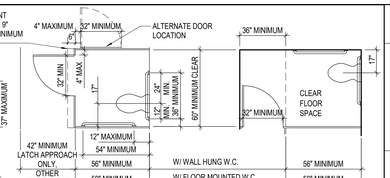
36" X 36" STALL WITH SEAT ELEVATIONS

SHOWER STALL

PROVIDE 6" CLEAR FLOOR SPACE @ FRONT PARTITION & AT LEAST 1 SIDE PARTITION. 9" MINIMUM A.F.F. HEIGHT FOR ADULT, 12" MINIMUM FOR CHILDREN



AMBULATORY W.C. STALL PLAN

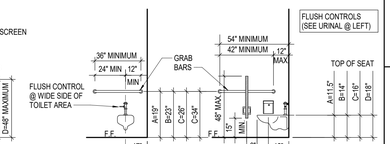


ACCESSIBLE W.C. STALL PLAN

ACCESSIBLE W.C. END OF ROW PLAN



WALL HUNG URINAL ELEVATION



WALL HUNG URINAL PLAN

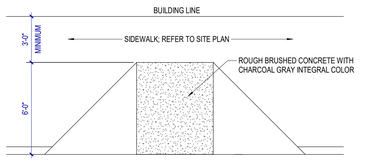
WALL HUNG URINAL ELEVATION

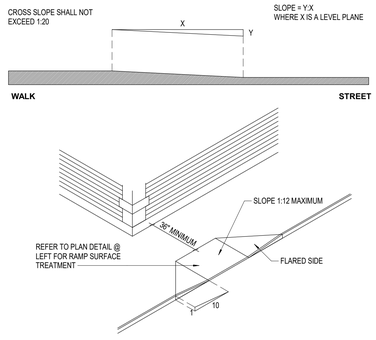
W.C. BACK WALL ELEVATION

W.C. SIDE WALL ELEVATION

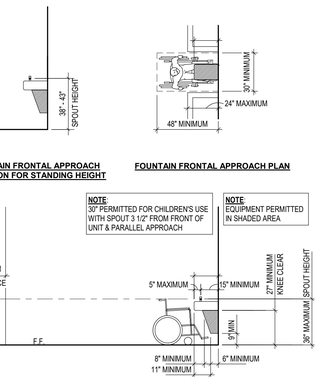
URINAL

WATER CLOSET

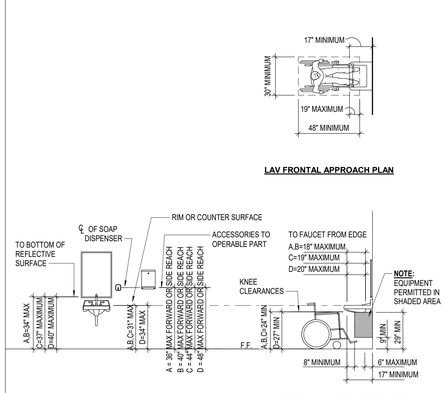




STANDARD RAMP DETAILS



DRINKING FOUNTAIN CLEARANCES



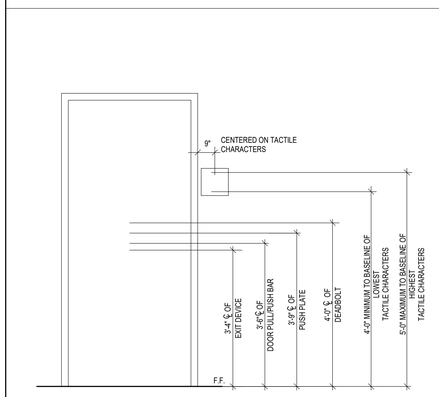
LAVORATORY CLEARANCES

		STUDENT RESTROOMS		STUDENT RESTROOMS		STUDENT RESTROOMS		ADULT RESTROOMS	
GROUP		A		B		C		D	
AGE RANGE		3 - 4 YRS		5 - 8 YRS		9 - 12 YRS		13 YRS - ADULT	
GRADE RANGE		PRE-K		K - 3RD		4TH - 7TH		8TH & UP	
		ACCESS.	STD.	ACCESS.	STD.	ACCESS.	STD.	ACCESS.	STD.
REACH RANGES									
	UNOBSTRUCTED HIGH (MAX.) FORWARD OR SIDE REACH	36" MAX		40" MAX		44" MAX		48" MAX	
	UNOBSTRUCTED LOW (MIN.) FORWARD OR SIDE REACH	20" MIN		18" MIN		16" MIN		15" MIN	
	SIDE REACH OBSTRUCTION 0" - 10" FROM WALL	36" MAX		40" MAX		44" MAX		48" MAX	
	SIDE REACH OBSTRUCTION >10" - 24" FROM WALL							46" MAX	
RAMPS AND STAIRS									
	TOP OF HANDRAIL GRIPPING SURFACE	28" MAX	--	28" MAX	--	28" MAX	--	34" - 38"	--
ELEVATORS									
	CAR CONTROL BUTTONS (HIGHEST OPERABLE PART)								
	UNOBSTRUCTED HIGH (MAX)	36" MAX	--	40" MAX	--	44" MAX	--	48" MAX	--
	UNOBSTRUCTED LOW (MIN)	20" MIN	--	18" MIN	--	16" MIN	--	15" MIN	--
	EMERGENCY CONTROLS								
	HIGHEST OPERABLE PART	35" MIN	--	35" MIN	--	35" MIN	--	35" MIN	--
PLATFORM LIFTS (WHEELCHAIR LIFTS)									
	CONTROLS/OPERATING MECHANISMS								
	HIGHEST OPERABLE PART	20" - 36"	--	18" - 40"	--	16" - 44"	--	15" - 48"	--
DRINKING FOUNTAINS									
	FRONTAL APPROACH								
	SPOUT HEIGHT ("LOW" WHEELCHAIR OUTLET)	36" MAX	--	36" MAX	--	36" MAX	--	36" MAX	--
	SPOUT HEIGHT ("HIGH" STANDING OUTLET)		--		--		--	38" - 43"	--
	KNEE CLEARANCE	24" MIN	--	24" MIN	--	24" MIN	--	27" MIN	--
	PARALLEL APPROACH								
	SPOUT HEIGHT ("LOW" WHEELCHAIR OUTLET)	30" MAX	--	30" MAX	--	30" MAX	--	36" MAX	--
WATER CLOSETS									
	TOP OF SEAT	11" - 12"	11.5"	12" - 15"	15"	15" - 17"	15"	17" - 19"	15"
	GRAB BARS	18" - 20"	--	20" - 25"	--	25" - 27"	--	33" - 36"	--
	DISPENSER OUTLET	14"	14"	14" - 17"	16"	17" - 19"	18"	15" - 48"	18"
URINALS									
	RIM OF BASIN	14" MAX	16"	16" MAX	18"	17" MAX	24"	17" MAX	24"
	FLUSH CONTROLS	20" - 36"	36"	18" - 40"	38"	16" - 44"	54"	15" - 48"	54"
LAVATORIES AND SINKS									
	RIM OR COUNTER SURFACE	31" MAX	24" U.O.N.	31" MAX	30" U.O.N.	31" MAX	30" U.O.N.	34" MAX	34" U.O.N.
	KNEE CLEARANCE	24" MIN	--	24" MIN	--	24" MIN	--	27" MIN	--
	TO FAUCETS FROM FRONT EDGE	18" MAX	18"	18" MAX	18"	19" MAX	19"	20" MAX	20"
MIRRORS									
	TO BOTTOM OF REFLECTIVE SURFACE	34" MAX	30"	34" MAX	36"	37" MAX	36"	40" MAX	40"
BATHTUBS									
	TOP OF SEAT	11" - 12"	--	12" - 15"	--	15" - 17"	--	17" - 19"	--
	GRAB BARS	18" - 20"	--	20" - 25"	--	25" - 27"	--	33" - 36"	--
	HAND SHOWER HEAD MOUNTING	20" - 36"	--	18" - 40"	--	16" - 44"	--	15" - 48"	--
SHOWER STALLS									
	TOP OF SEAT	11" - 12"	--	12" - 15"	--	15" - 17"	--	17" - 19"	--
	GRAB BARS	18" - 20"	--	20" - 25"	--	25" - 27"	--	33" - 36"	--
	HAND SHOWER HEAD MOUNTING	20" - 36"	--	18" - 40"	--	16" - 44"	--	15" - 48"	--
STORAGE									
	UNOBSTRUCTED HIGH (MAX.) FORWARD OR SIDE REACH	36" MAX	--	40" MAX	--	44" MAX	--	48" MAX	--
	UNOBSTRUCTED LOW (MIN.) FORWARD OR SIDE REACH	20" MIN	--	18" MIN	--	16" MIN	--	15" MIN	--
CONTROLS AND OPERATING MECHANISMS									
	OPERABLE PARTS								40"W, 42"H
	UNOBSTRUCTED HIGH (MAX.)	36" MAX	--	40" MAX	--	44" MAX	--	48" MAX	--
	UNOBSTRUCTED LOW (MIN.)	20" MIN	--	18" MIN	--	16" MIN	--	15" MIN	--
TELEPHONES									
	OPERABLE PARTS								
	UNOBSTRUCTED HIGH (MAX.)	36" MAX	--	40" MAX	--	44" MAX	--	48" MAX	--
	UNOBSTRUCTED LOW (MIN.)	20" MIN	--	18" MIN	--	16" MIN	--	15" MIN	--
FIXED OR BUILT-IN SEATING & TABLES, READING & WORK STATIONS									
	HEIGHT OF TABLES OR COUNTERS	26" - 30"	--	26" - 30"	--	26" - 30"	--	28" - 34"	--
	KNEE CLEARANCES	24" MIN	--	24" MIN	--	24" MIN	--	27" MIN	--
DRESSING AND FITTING ROOMS									
	TOP OF BENCH	11" - 12"		12" - 15"		15" - 17"		17" - 19"	
FOOD SERVICE LINES									
	TOP OF TRAY SLIDE	26" - 30"	--	26" - 30"	--	26" - 30"	--	28" - 34"	--
MARKER BOARD AND TACK BOARD MOUNTING BY GRADE LEVEL		PRE-K/K		1-2		3-5		6-12	
	BOTTOM OF MARKER/TACK SURFACE	24"		30"		34"		36"	

MOUNTING HEIGHT TABLE

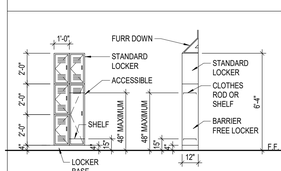
LEGEND:

ACCESS.	= ACCESSIBLE FOR THE PURPOSES OF ADA
EQ.	= EQUAL
MAX.	= MAXIMUM (NO EXCEPTIONS WILL BE APPROVED)
MIN.	= MINIMUM (NO EXCEPTIONS WILL BE APPROVED)
M	= MENS RESTROOM
W	= WOMENS RESTROOM
STD.	= STANDARD DIMENSIONS FOR NON-ADA FIXTURES



MOUNTING HEIGHTS AT DOORS

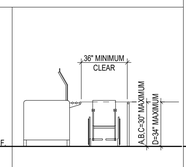
CHANGES IN LEVEL



LOCKER ELEVATION

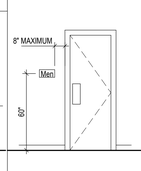
LOCKER SECTION

LOCKERS

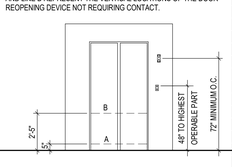


FOOD SERVICE LINE

FOOD SERVICE



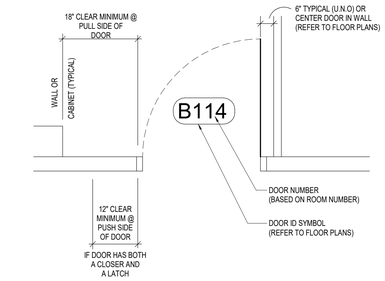
ROOM SIGNAGE



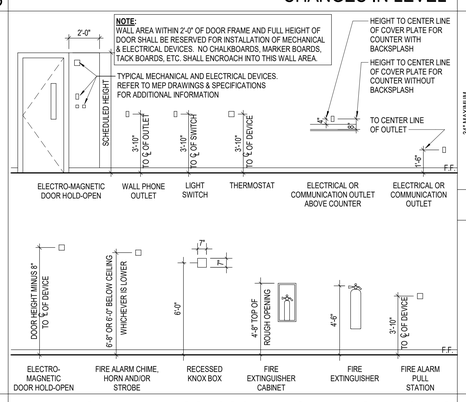
ELEVATOR CONTROLS ELEVATION

ROOM SIGNAGE

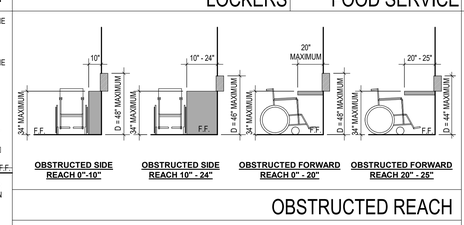
ELEVATOR CAR CONTROLS



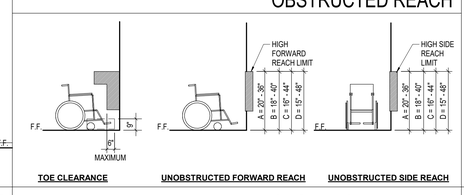
TYPICAL CLEARANCES AT DOORS



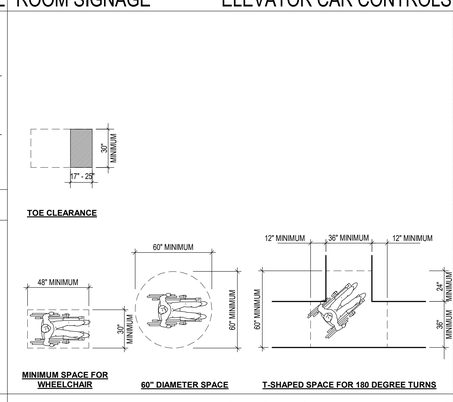
GENERAL ACCESSORY MOUNTING HEIGHTS



OBSTRUCTED REACH



UNOBSTRUCTED REACH



CLEAR SPACE FOR WHEELCHAIRS

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 20153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

TYPICAL DIMENSIONS & ACCESSIBILITY REQUIREMENTS

Sheet

A0.03

CONSTRUCTION DOCUMENTS

BINDING EDGE

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11/10/2025 10:55:36 AM

BINDING EDGE

PLAQUE TYPE GENERAL NOTES:

1) FOR DETAILED INFORMATION ON EACH PLAQUE TYPE, REFER TO PLAQUE TYPE ENLARGED DETAILS.

2) REFER TO ROOM PLAQUE SCHEDULE FOR PLAQUE LOCATIONS.

3) PROVIDE MATCHING BACK PLATE FOR PLAQUES INDICATED ON SCHEDULES WITH A "2", EX. "F2"; PLAQUES WILL BE INSTALLED ON GLAZING

4) PROVIDE SIGN TYPE "G" AT THE TOP OF ALL STAIRS.

5) REFER TO FINISH LEGEND (BELOW) FOR PLAQUE FINISHES.

6) REFER TO RESTROOM PICTOGRAMS LEGEND (BELOW) FOR PLAQUE TYPE 'D' PICTOGRAMS.

PLAQUE FINISH LEGEND:

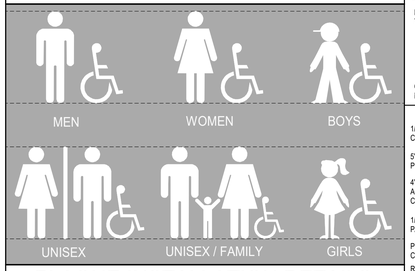
Plastic Laminate: COLOR #1 = PL-X
COLOR #2 = PL-X

Braille Finish: CLEAR

Routed Band: WHITE

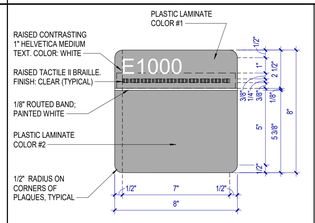
Edges: BLACK

RESTROOM PICTOGRAMS:



PLAQUE INSTALLATION DETAILS:

PLAQUE TYPE ENLARGED DETAILS:



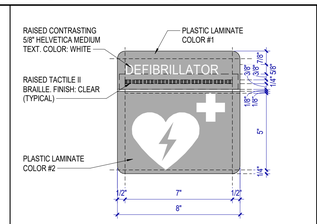
PLAQUE TYPE "A"

NOT TO SCALE

ROOM NUMBER ABOVE (NO TEXT BELOW)
TYPICALLY USED FOR ROOM TYPE INDICATED:

ELECTRICAL - USE 'E1000' / 'E1'	GENERATOR - USE 'G1000' / 'G1'
MECHANICAL - USE 'M1000' / 'M1'	CENTRAL PLANT - 'M1XXX' / 'M1'
TECHNOLOGY - USE 'T1000' / 'T1'	MDF - USE 'T1XXX' / 'T1'
CUSTODIAN - USE 'C1000' / 'C1'	STORAGE - USE 'S1000' / 'S1'
FIRE RISER - USE 'F1000' / 'F1'	CHEMICAL STORAGE - USE ROOM #

ALL OTHER ROOMS FOLLOW ROOM NUMBER SEQUENCE AND ARE NUMBERED E1001/E1, E1002/E2, ETC.

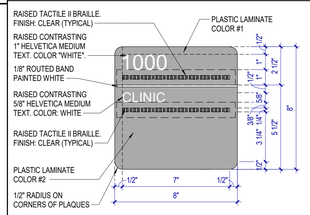


PLAQUE TYPE "R"

NOT TO SCALE

TEXT ABOVE + AED PICTOGRAM BELOW

SPECIALTY PLAQUE TYPE AT AED LOCATIONS.
PROVIDE ____ PLAQUES IN PROJECT.



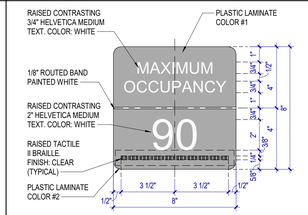
PLAQUE TYPE "C"

NOT TO SCALE

ROOM NUMBER ABOVE + TEXT BELOW.
TYPICALLY USED FOR ROOM TYPE INDICATED:

RECEPTION (WINDOW)	WORKROOM	COLLABORATION AREA
ATTENDANCE (WINDOW)	TEACHER BREAKROOM	LOCKER ROOM
COUNSELING SUITE	MAIL ROOM	GYM
CLINIC	LIBRARY	DRY STORAGE
SECURITY	BROADCAST	KITCHEN
TEAM ROOM	PLATFORM/STAGE	SERVING LINE ENTRANCE/EXIT

OTHER ROOMS WHOSE FUNCTION IS NOT LIKELY TO CHANGE BUT DO NOT REQUIRE A NAME SLOT BECAUSE THEY ARE GENERAL AREAS

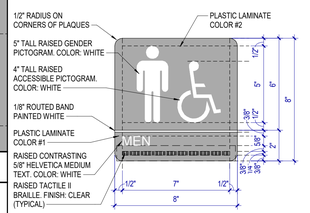


PLAQUE TYPE "S"

NOT TO SCALE

TEXT ABOVE + OCCUPANCY NUMBER BELOW

SPECIALTY PLAQUE TYPE AT LARGE GATHERING SPACES AND CLASSROOMS WITH OPERABLE WALLS.
PROVIDE ____ IN PROJECT.



PLAQUE TYPE "D"

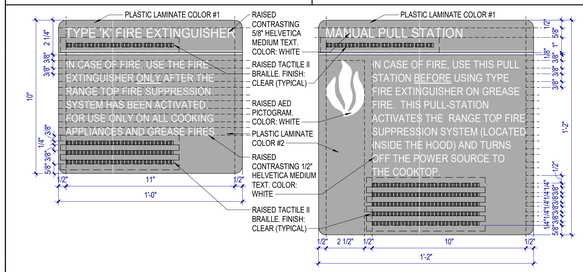
NOT TO SCALE

GENDER AND ADA PICTOGRAMS + TEXT BELOW

TYPICALLY USED FOR ROOM TYPE INDICATED:

MEN'S RESTROOM	MEN
WOMEN'S RESTROOM	WOMEN
BOYS	RESTROOM
GIRLS	UNISEX / FAMILY RESTROOM

IN ELEMENTARY SCHOOLS, GANG RESTROOMS ARE MARKED 'BOYS' AND 'GIRLS'; STAFF RESTROOMS ARE UNISEX AND INDICATED AS 'RESTROOM'.



PLAQUE TYPE "T"

NOT TO SCALE

TEXT ABOVE + TEXT BELOW + FIRE PICTOGRAM

SPECIALTY PLAQUE TYPE AT FIRE EXTINGUISHER OR FIRE PULL STATION LOCATIONS.
PROVIDE ____ FIRE EXTINGUISHER PLAQUES IN PROJECT.
PROVIDE ____ FIRE PULL STATION PLAQUES IN PROJECT.

ROOM PLAQUE SCHEDULE

Plan Door No.	From Room: Name	To Room: Number	To Room: Name	Plaque Type	Final Rm. Number	Plaque Text	Plaque Notes	No. of Plaques
LEVEL 01								
A2	STOR.	A1	DUGOUT	A	11	STORAGE	1	1
A4	DUGOUT	A4	STOR.	A	12	STORAGE	1	1
B1	TICKET			C	01	TICKET BOOTH	1	1
B2	CONCESSION			C	02	CONCESSIONS	1	1
B3		B3	MENS	D	03	MEN	1	1
B4	RR			D	05	WOMENS	1	1
B5		B5	ELEC.	A	04	E1	1	1
B6	VEST			D	10	WOMENS	1	1
B7		B7	MENS	D	09	MEN	1	1
B8	RR	B9	OFFICIALS	D	07A	RESTROOM		1
B9		B9	OFFICIALS	C	07	OFFICIALS ROOM	1	1
B10	CUST.			A	08	CUSTODIAL	1	1
B11		B11	MDF	A	06	MDF	1	1
B11A		B11A	STOR.	A	6A	STORAGE	1	1
B12		B12	STOR.	A	15	STORAGE	1	1
B12A	STOR.			A	15	STORAGE	1	1
B14	STOR.	B13	DUGOUT	A	13	STORAGE	1	1
B16	DUGOUT	B16	STOR.	A	14	STORAGE	1	1
C2	DUGOUT	C2	STOR.	A	17	STORAGE	1	1
C4	STOR.	C3	DUGOUT	A	16	STORAGE	1	1

NOTES:

1. EXTERIOR APPLICATION.

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District



Revision Schedule

NO.	ISSUE	DATE

Sheet Information

Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

ROOM SIGNAGE

Sheet

A0.20

CONSTRUCTION DOCUMENTS

BINDING EDGE

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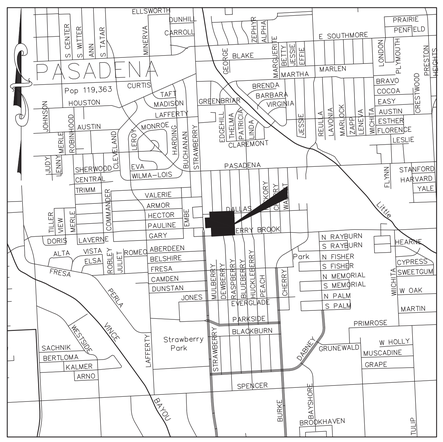
PASADENA INDEPENDENT SCHOOL DISTRICT

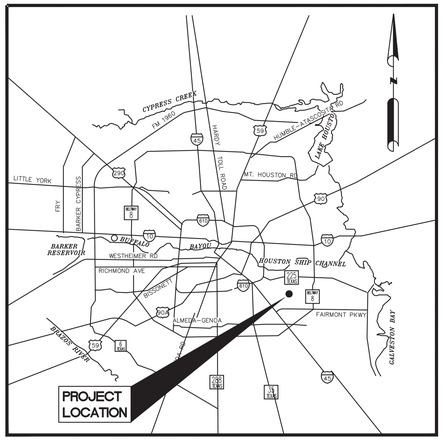
CIVIL & ATHLETIC FIELD PLANS FOR
PASADENA I.S.D. SOFTBALL COMPLEX
1515 CHERRY BROOK LANE
PASADENA, TEXAS 77502

NOVEMBER 2025

VICINITY MAP



KEY MAP 537S
N.T.S.



LOCATION MAP
N.T.S.

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CONSTRUCTION DOCUMENTS

ONE-CALL NOTIFICATION
SYSTEM
CALL BEFORE YOU DIG!!!
713-223-4567 (IN HOUSTON)
(NEW STATEWIDE NUMBER OUTSIDE HOUSTON)
1-800-344-8377

TALON ENGINEERING
CIVIL ENGINEERING & SPORTS DESIGN CONSULTANTS
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PROFESSIONAL ENGINEER
11/10/2025

C0.00

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION SCHEDULE WITH THE ENGINEER AND/OR ARCHITECT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL CONTACT ALL GOVERNING AGENCIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH THE SAME.
3. WHETHER SHOWN ON DRAWINGS OR NOT THE CONTRACTOR SHALL PROVIDE ALL PIPING, APPURTENANCES, AND MISCELLANEOUS FITTINGS REQUIRED TO ACCOMPLISH THE DESIGN AS DRAWN AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ENGINEER IF UNSURE OF PIPING LAYOUT, SIZES OR LENGTHS.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE ENGINEER IN A TIMELY MANNER.
5. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR. CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT ARE TO BE APPROVED BY THE ENGINEER.
6. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM AN ON THE GROUND OBSERVATION, SURVEY AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE TOPOGRAPHIC FEATURES, ELEVATIONS AS WELL AS THE LOCATION AND NATURE OF PIPELINES, NATURAL GAS LINES, UNDERGROUND CABLES, UTILITIES, ETC. HOWEVER, THE ACCURACY OR OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO PRECLUDE DAMAGE TO EXISTING UTILITIES. IN THE EVENT THAT UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, 1-800-545-6005 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
8. SOME OF THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN FIELD VERIFIED.
9. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
10. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES OR FACILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO REPLACE THE UTILITY OR FACILITY BACK IN SERVICE AT NO INCREASE IN THE CONTRACT PRICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
11. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, ETC. WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT AT NO ADDITIONAL COST TO THE OWNER.
12. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS OF THE GOVERNING AUTHORITY.
13. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL TIMES FOR THE PROPERTY OWNERS AND BUSINESSES OF THE ABUTTING PROPERTY AND THE CROSS STREETS WHICH ARE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
14. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING A SAFE PROJECT SITE 24 HOURS A DAY.
15. DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION WARNING SIGNS AT EACH END OF THE PROJECT TO WARN MOTORING AND PEDESTRIAN TRAFFIC THAT CONSTRUCTION IS IN PROGRESS AND OF POSSIBLE HAZARDOUS CONDITIONS GENERATED BY THE CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING THE PERIMETER OF CONSTRUCTION AREA WITH CONSTRUCTION FENCING AT NO ADDITIONAL COST. CONSTRUCTION FENCING SHALL BE ERECTED PRIOR TO CONSTRUCTION AND REMOVED UPON COMPLETION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC IN THE IMMEDIATE VICINITY OF CONSTRUCTION. ALL WORK SHALL BE IN SUCH A MANNER AND SEQUENCE AS TO PROVIDE MAXIMUM PROTECTION TO TRAFFIC AND PEDESTRIANS. CONTROLS SHALL BE CONSISTENT WITH THE TYPE OF WORK BEING PERFORMED.
18. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
19. DELINEATORS SHALL BE INSTALLED ALONG THE PAVEMENT EDGE TO WARN TRAFFIC OF ANY ROADSIDE OBJECTS OR HAZARDS AND TO DELINEATE THE ROADWAY EDGE DURING HOURS OF DARKNESS.
20. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.
21. UNOCCUPIED TRENCHES SHALL BE SECURED WITH SAFETY "SNOW" FENCING OR OTHER APPROPRIATE MEANS AT ALL TIMES. TRENCHES WHICH ARE NOT IMMEDIATELY BACKFILLED SHALL BE SECURELY COVERED OVERNIGHT AND BE SURROUNDED BY SAFETY "SNOW" FENCING.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT, AND WORK IN PROGRESS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ADEQUATE DRAINAGE BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING AUTHORITY AND/OR ENGINEER. THE CONTRACTOR SHALL ALSO MAINTAIN DRAINAGE AROUND BUILDING AS TO NOT HOLD WATER ADJACENT TO ANY POINT NEAR BUILDING.
24. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF ANY TEMPORARY DITCH OR DRAINAGE FACILITIES REQUIRED TO MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER
25. THE CONTRACTOR IS TO INSTALL GROUND WATER CONTROL FACILITIES IF NEEDED, AT DIRECTION OF ENGINEER AT NO ADDITIONAL COST TO OWNER.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS REQUIRED BY ALL GOVERNING AGENCIES.
27. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION AND SUBMISSION OF ALL APPLICABLE STATE AND FEDERAL FORMS REQUIRED FOR STORM WATER POLLUTION PREVENTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER PRACTICES.
28. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING.
29. THE CONTRACTOR SHALL DESIGN AND PROVIDE A TRENCH SAFETY SYSTEM TO MEET APPROPRIATE REQUIREMENTS ESTABLISHED IN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY & HEALTH REGULATIONS, 29 CFR 1926, SUBPART P – EXCAVATIONS, TRENCHING AND SHORING, AND OSHA'S PROPOSED STANDARDS ON TRENCHING, EXCAVATION PUBLISHED IN VOLUME 52, NO. 72 OF THE FEDERAL REGISTER, APRIL 15, 1987, PAGES 12288-12339. SHOULD THE REFERENCED OSHA STANDARDS BE MODIFIED OR AMENDED, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
30. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
31. IN ORDER TO COMPLY WITH HANDICAP REGULATIONS, THE CONTRACTOR SHALL ENSURE THAT THE SLOPE OF THE SIDEWALK AND/OR PAVING IN THE FIRST FIVE FEET OUTSIDE ANY DOOR DOES NOT EXCEED 2% IN ANY DIRECTION.
32. THE TEXAS DEPARTMENT OF TRANSPORTATION TxDOT 2004 STANDARD SPECIFICATIONS AND STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE CONSIDERED PART OF THESE PLANS AND USED AS THE SPECIFICATIONS FOR ITEMS EXCEPT AS SHOWN OTHERWISE ON PLANS OR IN THE PROJECT SPECIFICATIONS.
33. NO CONSTRUCTION WHICH BLOCKS TRAFFIC ON ANY STREET, ALLEY, OR DRIVEWAY WILL BE ALLOWED DURING THE HOURS OF 6:30 A.M. – 8:30 A.M. AND 2:30-6:00 P.M.
34. THE CONTRACTOR MUST CLEAN MUD, DIRT OR DEBRIS TRACKED ONTO EXISTING STREETS BY HIMSELF OR SUBCONTRACTOR'S VEHICLES AND EQUIPMENT DAILY OR AS DIRECTED BY ENGINEER.
35. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
36. ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NOT TO BE REPAVED OR OTHERWISE COVERED SHALL BE HYDROMULCHED.
37. CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL. TOPSOIL SHALL BE SPREAD OVER ALL AREAS RECEIVING SOD AND OR HYDROMULCH. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AN 85% STAND OF GRASS WITH NO AREAS OF EROSION BEFORE FINAL ACCEPTANCE.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL GENERATED DURING CONSTRUCTION. WASTE MATERIAL MUST BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN SUCH A MANNER AS TO NOT DAMAGE THE OWNER OR OTHER PERSONS AT NO ADDITIONAL COST.
39. ALL FILL PLACED ON SITE SHALL BE SELECT FILL PER THE RECOMMENDATION OF THE SOILS REPORT OR AS INDICATED IN THE SPECIFICATIONS.
40. FINISH GRADE ELEVATIONS INDICATE FINAL GRADE OF PROPOSED MATERIAL (I.E. SOD, DIRT, MULCH, ETC.). LANDSCAPED AREAS ADJACENT TO BUILDING, INCLUDING, DIRT, MULCH, AND/OR BEDDING MATERIALS SHALL NOT COVER WEEPHOLES. AREAS ADJACENT TO BUILDING, LANDSCAPED, OR OTHERWISE SHALL SHEET FLOW AWAY FROM BUILDING WITH NO AREAS OF STANDING WATER ADJACENT TO BUILDING.
41. GRADING AROUND BUILDINGS INCLUDING WALKWAYS SHALL BE COORDINATED WITH ENGINEER AND/OR ARCHITECT AND FINAL APPROVAL OF GRADES IN GRASS AREAS AND SWALES SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF LANDSCAPING MATERIALS.
42. AFTER INSTALLATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL PERFORM FINAL GRADING AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER OR OWNER TO INSURE POSITIVE DRAINAGE OF ENTIRE SITE. FINAL GRADING SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF GRASS.
43. THE CONTRACTOR SHALL COORDINATE FINAL GRADING OF LANDSCAPED AREAS WITH THE LANDSCAPE ARCHITECT.
44. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL GRADES TO ENSURE POSITIVE DRAINAGE.
45. PLACE BACKFILL AS PROMPTLY AS PRACTICABLE AFTER COMPLETION OF EACH STRUCTURE OR PORTION OF A STRUCTURE. DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS OR SIMILAR STRUCTURES UNTIL CONCRETE HAS CURED AT LEAST SEVEN (7) DAYS.
46. ALL STRUCTURES AND SEWER PIPE UNDER OR WITHIN TWO (2) FEET OF PROPOSED OR FUTURE PAVEMENT SHALL BE BEDDED AND BACKFILLED WITH CEMENT STABILIZED SAND UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE.
47. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
48. WHERE PAVEMENT OR CURB IS BEING REMOVED AND REPLACED FULL DEPTH SAW CUT SHALL BE PERFORMED AT STREET CONNECTION.
49. CONCRETE PAVEMENT SHALL HAVE MINIMUM OF FIVE AND ONE-HALF SACKS OF CEMENT PER CUBIC YARD AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS.
50. ALL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
51. DETAILING AND FABRICATION OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI-318 LATEST EDITION.
52. LAP ALL CONTINUOUS REINFORCING STEEL 36 DIAMETERS AT SPLICES, TEES, AND CORNERS UNLESS NOTED OTHERWISE ON PLANS.
53. WHERE CONCRETE CURB OR WALK IS INDICATED, ELEVATION SHALL BE 6 INCHES ABOVE TOP OF PAVEMENT ELEVATION SHOWN, UNLESS OTHERWISE SHOWN ON DRAWINGS.
54. MOW STRIPS SHALL BE INSTALLED SO AS NOT TO BLOCK ANY SHEET FLOW PATTERNS AS DESIGNED. ANY MOW STRIPS THAT BLOCK DRAINAGE SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. IF CONTRACTOR HAS ANY QUESTIONS ON CORRECT ELEVATIONS FOR MOW STRIPS, CONTACT ENGINEER OR ARCHITECT.
55. A FIBERBOARD EXPANSION JOINT SHALL BE PLACED BETWEEN THE BUILDING FOUNDATION AND THE CONCRETE PAVEMENT.
56. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL PROPOSED UTILITIES EXITING BUILDING PRIOR TO COMMENCING WORK ON SITE UTILITIES. UPON ANY DISCREPANCIES, ENGINEER IS TO BE NOTIFIED.
57. ELECTRIC METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH ELECTRICAL PROVIDER BY THE CONTRACTOR.
58. GAS METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH GAS COMPANY BY THE CONTRACTOR.
59. IF WITHIN THE CITY OF HOUSTON A STORM WATER QUALITY PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING ITEMS:

    A.) PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PROVIDE THE CITY OF HOUSTON WITH A PERFORMANCE BOND FOR ALL STORM WATER QUALITY PERMITS ISSUED BY THE CITY OF HOUSTON STORM WATER QUALITY DEPARTMENT.
60. THE CONTRACTOR WILL JET ALL DEBRIS OUT OF THE FLOATABLES COLLECTION SCREEN UNITS INSTALLED AND WILL PROVIDE THE ENGINEER WITH AN AS-BUILT SURVEY, SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR, SHOWING POSITIVE DRAINAGE PRIOR TO ENGINEER ISSUING AN AS-BUILT CERTIFICATE TO THE GOVERNING AGENCY.
61. CONTRACTOR IS RESPONSIBLE FOR PUMPING OUT STORM WATER QUALITY UNITS AND PROVIDING THE ENGINEER WITH A MANIFEST STATING THAT THE SILT AND DEBRIS WAS DISPOSED OF IN A LEGAL MANNER. MANIFEST AND TIME STAMPED PICTURES OF THE CLEAN UNITS MUST BE PROVIDED PRIOR TO ENGINEER SUBMITTING THE STORM WATER QUALITY AS-BUILT CERTIFICATE. CONTRACTOR TO NOTIFY ENGINEER WHEN PUMP OUT WILL TAKE PLACE.

STORM SEWER CONSTRUCTION NOTES

1. ON SITE STORM SEWERS 12-INCH DIAMETER AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (PER AASHTO M-294, TYPE S, HANCOR SURE-LOK F477 PIPE, OR APPROVED EQUAL,) UNLESS OTHERWISE SHOWN ON PLANS. PRODUCT MUST HAVE GASKET JOINTS.
2. ON SITE STORM SEWERS 10-INCH DIAMETER AND LESS SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, ASTM D3034 AND HAVING A S.D.R. OF 26, UNLESS OTHERWISE SHOWN ON PLANS.
3. ANY CONCRETE PIPE USED ON THIS PROJECT SHALL BE REINFORCED CONCRETE MEETING ASTM C-76 CLASS III, AND HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. CONCRETE PIPE IS ONLY TO BE USED WHERE REQUIRED IN PUBLIC RIGHT-OF-WAY AND/OR AT TIES TO PUBLIC STORM SEWER SYSTEMS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
4. THE CONTRACTOR SHALL USE PRECAST 4000 PSI REINFORCED CONCRETE STORM SEWER MANHOLES AND INLETS. INVERT SHALL BE INSTALLED WITH NON-SHRINK GROUT AND SLOPED TO ENSURE POSITIVE DRAINAGE FROM INLET TO STORM SEWER LINE. WITH SMOOTH FINISH AND NO STANDING WATER IN INLET. BRICK MANHOLES AND/OR INLETS MAY BE USED AS APPROVED BY THE ENGINEER WHEN SETTING STRUCTURES ON EXISTING UTILITY LINE. BRICK STRUCTURES MUST BE MORTARED INSIDE AND OUT. COORDINATE EACH INCIDENT WITH ENGINEER.
5. ALL INLETS, MANHOLES, CLEANOUTS, AND HEADWALLS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" AROUND OUTSIDE OF STRUCTURE.
6. NO CORNER CONNECTIONS WILL BE ALLOWED TO ANY INLETS, JUNCTION BOXES OR BOX MANHOLES.
7. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF INLETS AND MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT. INVERTS SHAPED TO PROMOTE FLOW-NO STANDING WATER.
8. CONCRETE FOR DRAINAGE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
9. CULVERT CROSSINGS LOCATED WITHIN 30 FEET OF THE RIGHT-OF-WAY SHALL HAVE MINIMUM 6:1 SLOPING ENDS KNOWN AS SAFETY END TREATMENTS (SETS). THE CULVERT SHALL HAVE SUFFICIENT LENGTH TO ALLOW THE 6:1 SLOPE TO BE ACHIEVED FROM THE EDGE OF PAVEMENT TO THE FLOWLINE AT THE END OF THE SET.
10. CULVERTS LARGER THAN SINGLE 30-INCH DIAMETER (OR LARGER THAN MULTIPLE 24-INCH DIAMETER CULVERTS) SHALL REQUIRE SAFETY PIPE RUNNERS.
11. CONTRACTOR SHALL FLUSH AND CLEAN ALL STORM SEWER LINES AND STRUCTURES PRIOR TO ACCEPTANCE.
12. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
13. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
14. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.
15. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR-TIGHT MECHANICAL PLUG.
16. ALL STORM SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET AT FINISH GRADE WITH CONCRETE COLLAR UNLESS OTHERWISE NOTED ON PLANS.
17. ALL INLETS AND JUNCTION BOXES LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE A PRE-CAST TOP WITH CAST-IN FRAME.
18. CONTRACTOR SHALL GROUT ALL JOINTS INSIDE OF ALL INLETS, JUNCTION BOXES, AND MANHOLES WITH NON-SHRINK GROUT.
19. ALL TYPE "A" GRATE INLETS SHALL HAVE SLOTTED GRATE TOPS (MODEL V-4880-3). GRATE TOPS IN WALK AREAS SHALL HAVE ADA COMPLIANT GRATES.
20. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
21. CONTRACTOR IS RESPONSIBLE FOR PUMPING OUT STORM WATER QUALITY UNITS AND PROVIDING THE ENGINEER WITH A MANIFEST STATING THAT THE SILT AND DEBRIS WAS DISPOSED OF IN A LEGAL MANNER. MANIFEST AND TIME STAMPED PICTURES OF THE CLEAN UNITS MUST BE PROVIDED PRIOR TO ENGINEER SUBMITTING THE STORM WATER QUALITY AS-BUILT CERTIFICATE. CONTRACTOR TO NOTIFY ENGINEER WHEN PUMP OUT WILL TAKE PLACE.
22. TRUE SDR-PVC OR SDR-HDPE FITTINGS ARE REQUIRED. NO RUBBER/FERNCO TYPE FITTINGS WILL BE ALLOWED.

SWPPP CONSTRUCTION NOTES

1 CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2 DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA

3 CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.

4 CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5 CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN(14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6 CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

SANITARY SEWER CONSTRUCTION NOTES

1. SANITARY SEWER SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, D-3034-08 AND HAVING A S.D.R. OF 26 UNLESS OTHERWISE SHOWN ON PLANS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
2. THE CONTRACTOR SHALL USE 4000 PSI REINFORCED CONCRETE PRECAST SANITARY SEWER MANHOLES.
3. ALL MANHOLES, AND CLEANOUTS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" AROUND OUTSIDE OF STRUCTURE.
4. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT.
5. CONTRACTOR SHALL SEAL INTERIOR SURFACE OF PROPOSED SANITARY SEWER MANHOLES WITH THANECOAT FE-100, OR APPROVED EQUAL AS PER MANUFACTURER'S SPECIFICATIONS.
6. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED.
7. ALL SANITARY SEWER LINES SHALL BE MANDREL AND AIR TESTED. ALL SANITARY SEWER LINES SHALL ALSO BE INSPECTED VIA CAMERA.
8. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
9. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
10. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.
11. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR-TIGHT MECHANICAL PLUG.
12. ALL SANITARY SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET 3" ABOVE FINISHED GRADE WITH CONCRETE COLLAR.
13. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
14. PVC TO SDR TRUE TRANSITION FITTINGS ARE REQUIRED.

WATER LINE CONSTRUCTION NOTES

1. DOMESTIC OR FIRE WATER LINES 4" AND LARGER SHALL BE POLYVINYL CHLORIDE PVC), DR-18, CLASS 150, CONFORMING TO AWWA C900 OR C905, AS CURRENTLY AMENDED UNLESS OTHERWISE NOTED ON THE PLANS.
2. WATER LINES 3" AND SMALLER SHALL BE SCHEDULE 40 PVC.
3. ALL VALVES SHALL BE LEFT HAND (COUNTERCLOCKWISE) OPEN.
4. SEE DETAIL SHEET FOR THRUST BLOCK DETAILS.
5. CONTRACTOR SHALL INSTALL METALLIC TRACER WIRE ON ALL UNDERGROUND PVC PIPING AND SECURE WIRE ENDS AT ALL VALVE BOXES.
6. CONTRACTOR SHALL ADJUST ELEVATION OF WATER LINES AS REQUIRED TO CLEAR OTHER UTILITIES. ADJUSTMENT MUST MEET TCEQ REQUIREMENTS FOR MINIMUM CLEARANCES, TYPE OF PIPE, ETC.
7. MINIMUM VERTICAL CLEARANCE BETWEEN WATER LINES AND OTHER UTILITIES SHALL BE TWELVE INCHES, UNLESS OTHERWISE NOTED ON THE PLANS.
8. EXISTING WATER SERVICES SHALL NOT BE INTERRUPTED DURING CONSTRUCTION.
9. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL ALL PROPOSED WATER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED, DISINFECTED AND APPROVED. ALL TESTING PROCEDURES SHALL CONFORM TO THE GOVERNING AGENCY.
10. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
11. METER AND BACKFLOW VAULTS SHALL BE SET 3" ABOVE FINISHED GRADE.
12. CONTRACTOR TO COORDINATE APPROPRIATE NOZZLE SIZE AND TYPE WITH LOCAL FIRE MARSHAL/FIRE INSPECTOR PRIOR TO OBTAINING FIRE HYDRANT.

SURVEY NOTE

ALL SURVEY INFORMATION, INCLUDING BUT NOT LIMITED TO DESCRIPTIONS OF PHYSICAL CHARACTERISTICS, LEGAL LIMITS, UTILITY LOCATIONS AND PERMANENT BENCHMARK FOR THE SITE OF THE PROJECT, WAS PROVIDED BY THE OWNER. THE ARCHITECTS AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY AND EXTENT OF ALL SURVEY INFORMATION PREPARED BY OTHERS AND FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY BIDDERS AND CONTRACTOR.

GEOTECHNICAL NOTES

1. THE GEOTECHNICAL INVESTIGATION & SOILS REPORT WAS PREPARED BY TERRACON; REPORT NO. 91245062, DATED OCTOBER 16, 2024.

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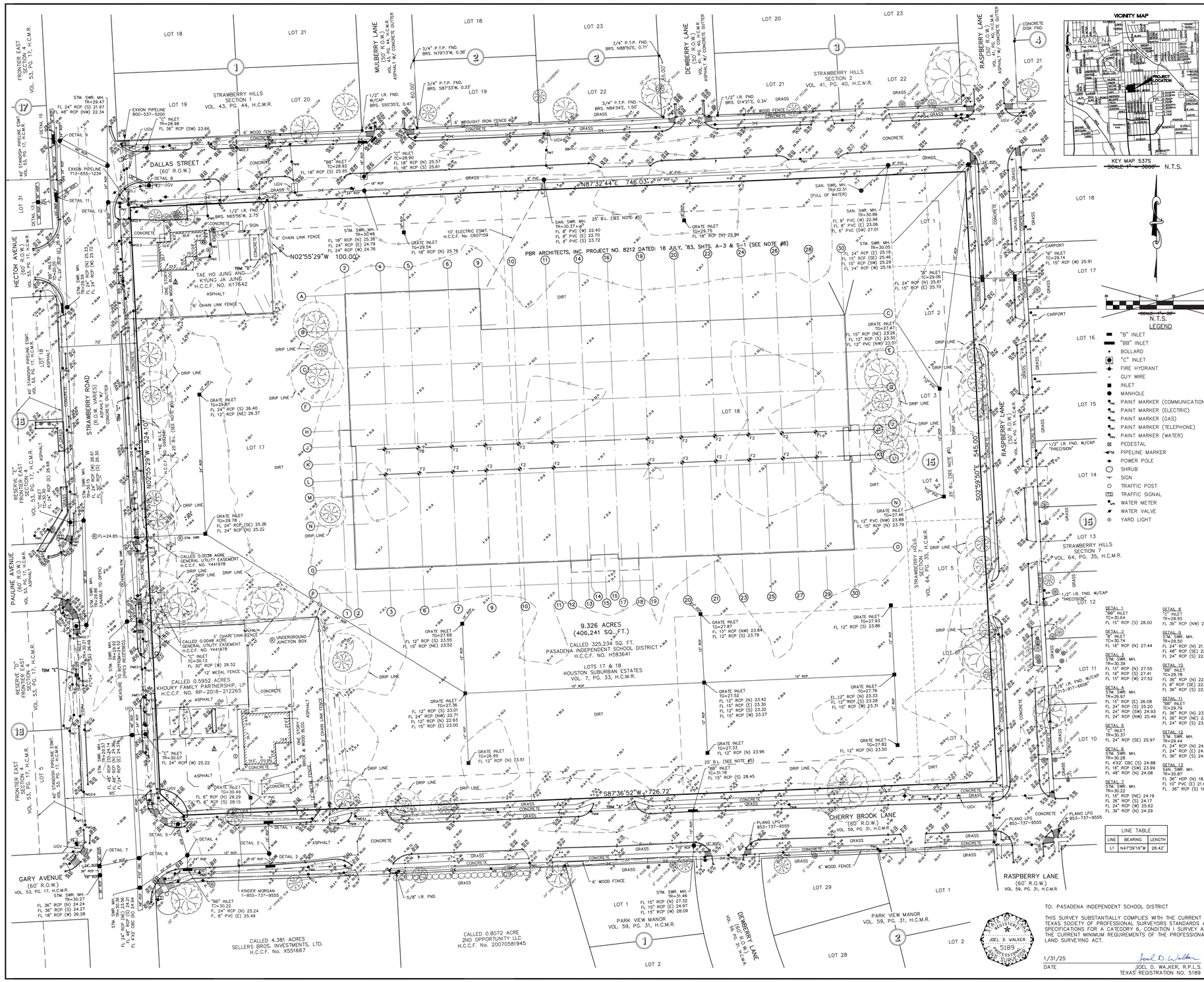
Pasadena, Texas

PASADENA INDEPENDENT SCHO



ABBREVIATIONS

B.L.–BUILDING LINE
BRS.–BEARS
CMC–CREPE MYRTLE CLUSTER
ESMT.–EASEMENT
FL–FLOW LINE
FND.–FOUND
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
I.P.–IRON PIPE
I.R.–IRON ROD
MH–MANHOLE
OHE–OVERHEAD ELECTRIC
P.T.P.–PINCHED TOP PIPE
PG.–PAGE
PVC–POLYVINYL CHLORIDE PIPE
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT-OF-WAY
SAN.–SANITARY
STM.–STORM
SWR.–SEWER
TG–TOP OF GRATE
TR–TOP OF RIM
UGV–UNDERGROUND VAULT
VOL.–VOLUME
W.L.E.–WATER LINE EASEMENT

SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.

2. THE CAD FILE OF THE DRAWING SHOWN HEREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999883872455.

3. ACCORDING TO F.I.R.M. MAP NO. 48201C0915N (COMMUNITY–PANEL NO. 480307C0915N), MAP REVISED DATE: MAY 2, 2019. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

4. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON–SITE OBSERVATION UNLESS OTHERWISE NOTED.

5. THE SUBJECT TRACT IS AFFECTED BY THE CITY ORDINANCES OF THE CITY OF PASADENA.

6. (R) INDICATES RECORD UTILITIES PLOTTED FROM MAPS PREPARED BY PBR ARCHITECTS, INC. PROJECT NO. 8212.04, SHT. A–4, DATED: 6/25/86.

7. ⊣ INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

8. THE BUILDING OUTLINE, COLUMN LINES AND COLUMN FOOTINGS SHOWN HERE ARE BASED ON PLANS PREPARED BY PBR ARCHITECTS, INC. PROJECT NO. 8212, DATED: 18 JULY, 83. SHEETS A–3 AND S–1 AND ARE REFERENCE ONLY. THE EXISTING BUILDING WAS IN THE PROCESS OF BEING DEMOLISHED AT THE TIME OF THIS SURVEY.

REFERENCE BENCHMARK:

RM090170 – HARRIS COUNTY FLOODPLAIN REFERENCE MARKER 090170 IS A BRASS DISC STAMPED "1101 BM17" LOCATED ON THE BURKE BRIDGE OVER LITTLE VINCE BAYOU. ELEVATION = 30.04' (NAVD88 2001, ADJ.)

TEMPORARY BENCHMARKS:

TBM "A" – BOX CUT ON CONCRETE SIDEWALK LOCATED ON THE NORTH SIDE OF CHERRY BROOK LANE ON THE EAST SIDE OF THE MOST EASTERLY ENTRANCE TO SITE. ELEVATION = 31.29'

TBM "C" – COTTON SPINDLE IN POWER POLE LOCATED ON THE EAST SIDE OF STRAWBERRY ROAD ±170' SOUTH OF DALLAS STREET. ELEVATION = 30.96'

TBM "D" – BOX CUT ON THE SOUTHEAST CORNER OF A CONCRETE PAD LOCATED ±50' SOUTH OF DALLAS STREET AND ±110' EAST OF STRAWBERRY ROAD. ELEVATION = 30.95'

TBM "E" – BOX CUT ON BACK OF CURB LOCATED ON THE WESTERLY SIDE OF STRAWBERRY ROAD ±60' SOUTH OF PAULINE AVENUE AND ±160' NORTH OF GARY AVENUE ELEVATION = 30.71'

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BRIAN W. REED, 128933, LICENSED PROFESSIONAL ENGINEER, STATE OF TEXAS
11/10/2025

PASADENA INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

9.326 ACRE TRACT OUT OF THE JAMES SEYMORE SURVEY ABSTRACT NO. 698 CITY OF PASADENA HARRIS COUNTY, TEXAS

WEST BELT SURVEYING, INC.
21029 PARK ROW, KATY, TX. 77449
PHONE: (281) 599-8388
FAX: (281) 492-9926
CERTIFIED FIRM NO. 10075800

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NO.	ISSUE	DATE
1	CONSTRUCTION DOCUMENTS	2025-11-10

NO.	DATE	REVISIONS	BY
2	11/31/25	ADDITIONAL TOPO	DB
1	10/9/24	ADDED NOTE #8	MDL

Sheet Information	
Date	2025-11-10
Job Number	23-012
Drawn	JDK/BWR
Checked	BWR
Approved	BWR
DRAWN BY: MDL/DB	CHECKED BY: KMH
~~SCALE: 1"=50'~~ N.T.S.	APPROVED BY: JDW
PROJECT NO. S727-0090A	DATE: OCTOBER 7, 2024

Title

TOPOGRAPHIC SURVEY

Sheet

C0.02

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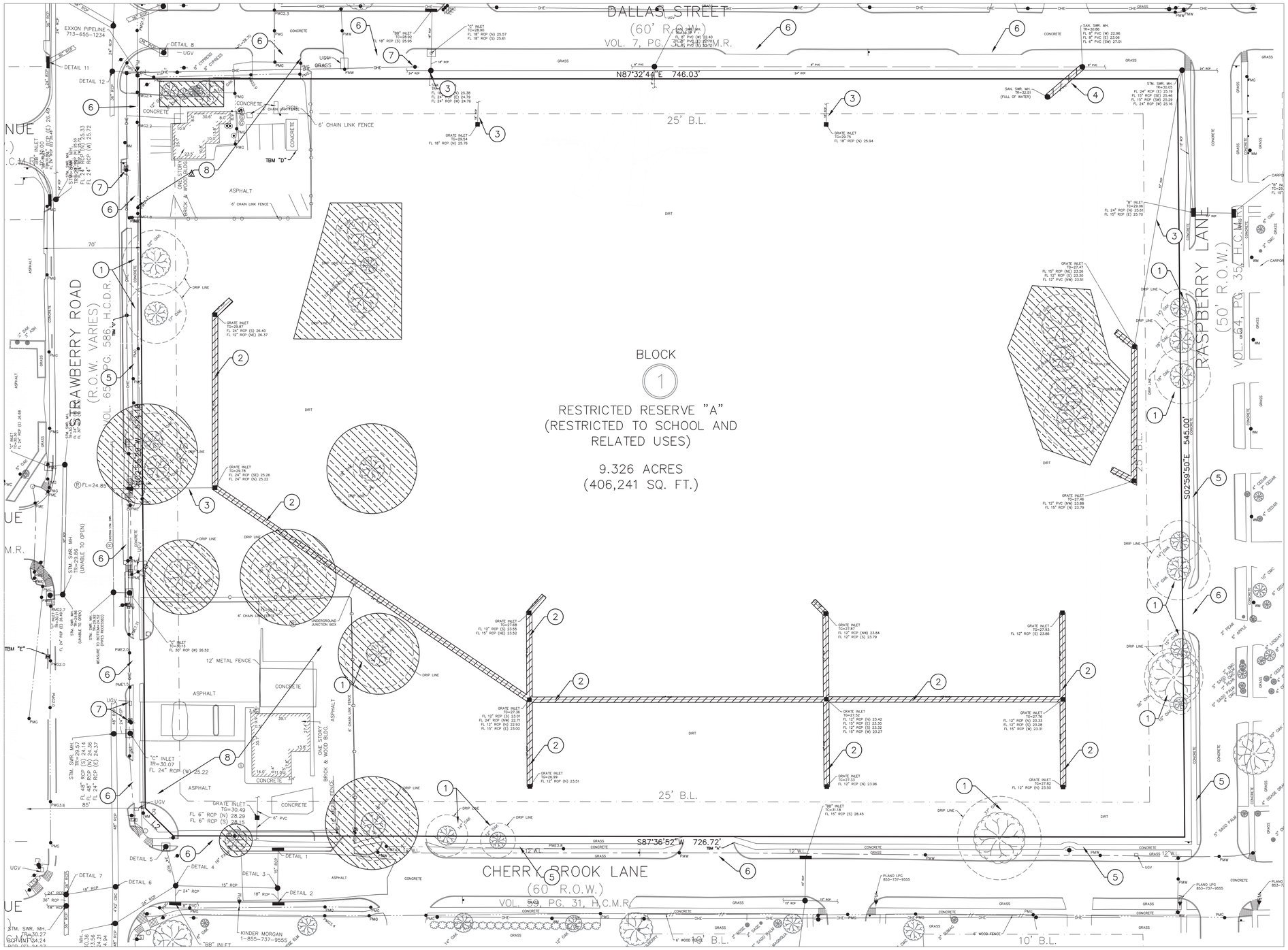

SCALE: 1"= 30'

LEGEND:

EXIST. UNDERGROUND UTILITIES TO BE REMOVED

EXIST. VEGETATION/TREES TO BE REMOVED

KEYED DEMO NOTES TO SHEET:

1. ALL TREES NOT HATCHED SHALL REMAIN
2. EXISTING STORM SEWER PIPE & STRUCTURES TO BE REMOVED ENTIRELY & BACKFILLED PER GEOTECHNICAL REPORT.
3. EXISTING STORM SEWER PIPE & STRUCTURES TO REMAIN.
4. EXISTING SANITARY SEWER MANHOLE & PIPE TO BE REMOVED ENTIRELY & BACKFILLED PER GEOTECHNICAL REPORT.
5. EXISTING SIDEWALK AROUND PERIMETER OF SITE TO BE REMOVED ENTIRELY. NEW SIDEWALK SHALL BE CONSTRUCTED PER SHEET C1.02 & ALSO REFERENCE ARCHITECT'S SITE PLAN.
6. EXISTING DRIVEWAY TO BE REMOVED ENTIRELY.
7. EXISTING POWER POLE & EXISTING UTILITY EQUIPMENT TO BE RELOCATED. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDER/COMPANY ON THE RELOCATION OF POWER POLES OUTSIDE OF THE PROPOSED DRIVEWAY.
8. EXISTING BUILDINGS ON THE TWO OUTPARCELS TO BE DEMOLISHED BY OWNER.

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Approved	BWR

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SITE DEMOLITION PLAN

Sheet

C1.01

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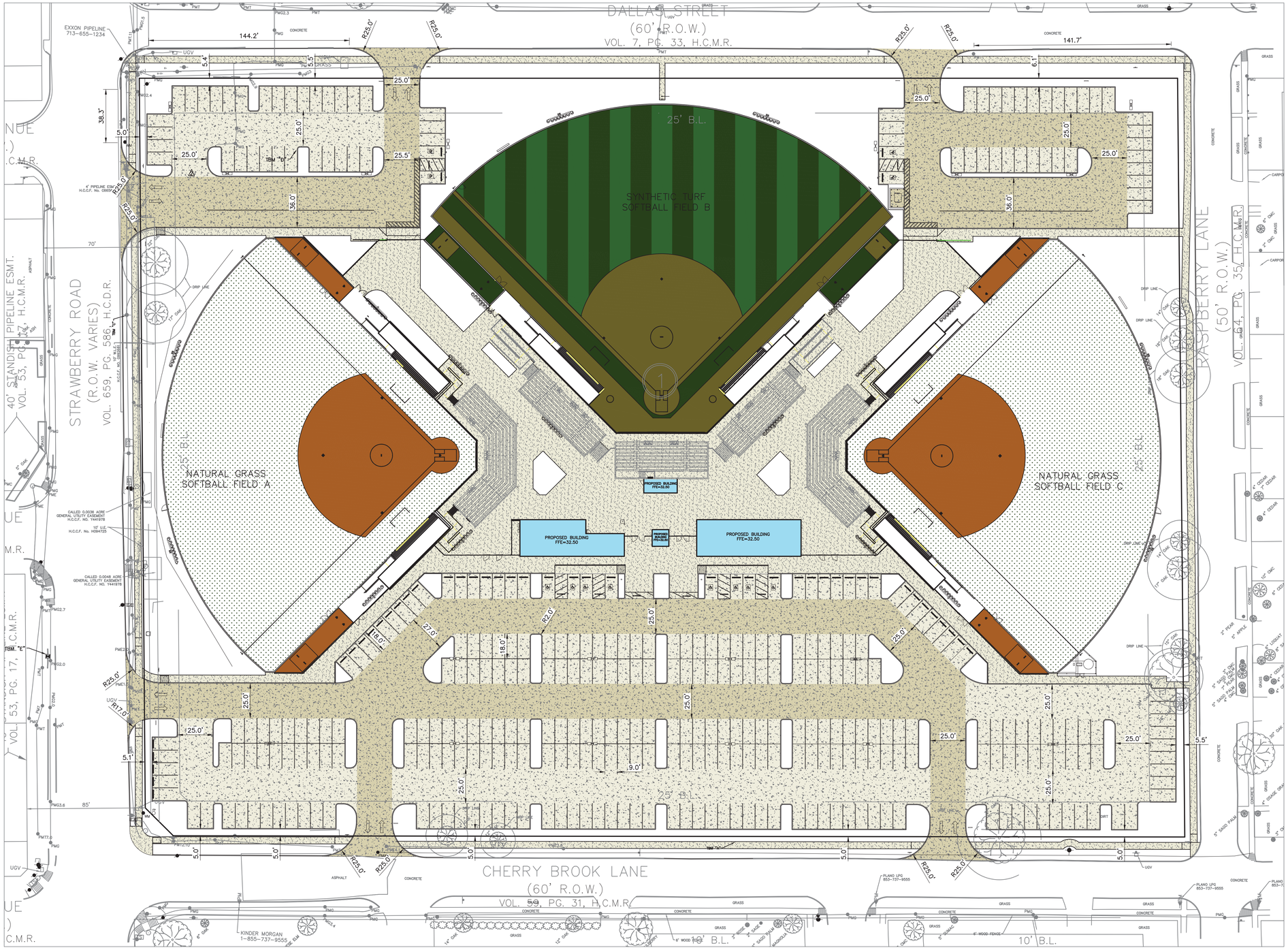

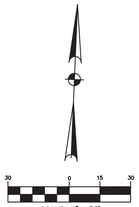

LEGEND:

- PROPOSED BUILDING FOOTPRINT
- 7" REINFORCED CONCRETE PAVEMENT
- 6" REINFORCED CONCRETE PAVEMENT
- 4.5" REINFORCED SIDEWALK

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SITE LAYOUT PLAN

Sheet

C1.02

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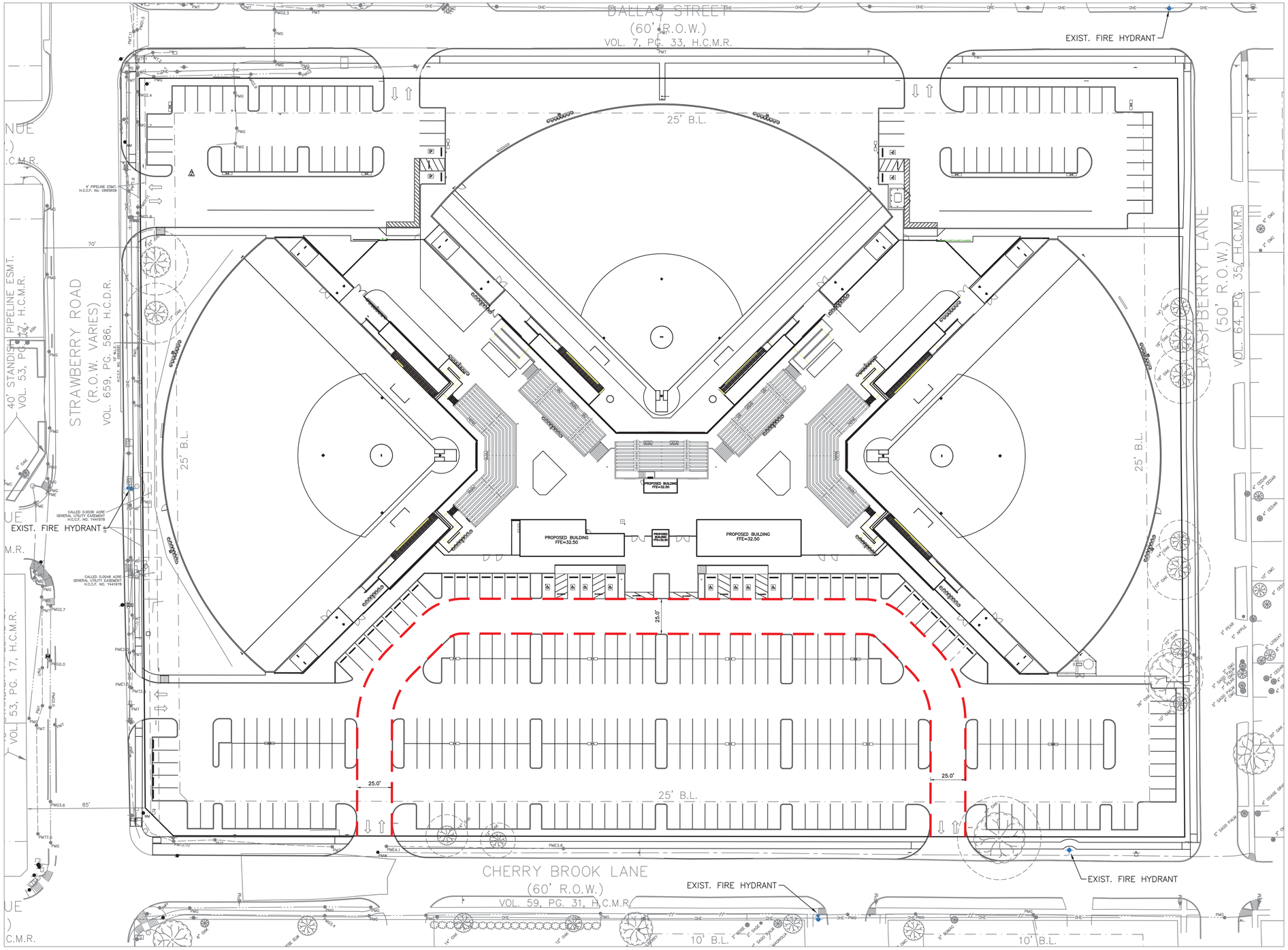
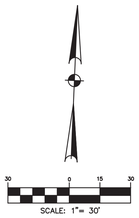




LEGEND:

SYMBOL	DESCRIPTION
— —	ACCESS ROAD/FIRE LANE PAINT RED LANE STRIPE
✦	EXISTING FIRE HYDRANT

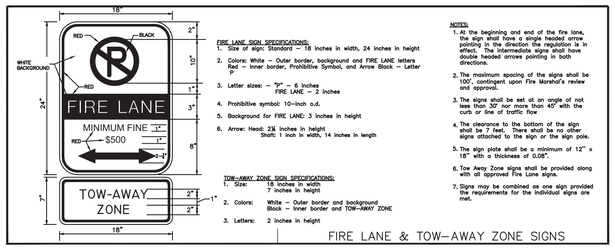
FIRE LANE NOTES

CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. WHERE A FIRE LANE PASSES BETWEEN HEAD IN PARKING SPACES, THE RED STRIPE SHOULD BE PLACED ALONG THE REAR OF THESE SPACES CLEARLY DEFINING THE FIRE LANE. PAINTED CURBS AND FIRE LANE STRIPES SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE – TOW AWAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING (50) FEET. WHERE FIRE LANES ARE NOT CLEARLY DEFINED BY CURB/PAVEMENT STRIPING, FIRE LANE SIGNS ARE REQUIRED. FIRE LANE SIGNS SHOULD BE PLACED EVERY (100) FEET MAXIMUM, ALTERNATING PLACEMENT OF SIGNS ON EACH SIDE OF FIRE ACCESS LANE.

ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES. RED COLORED CURBS; PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES. THE PLANS WILL BE APPROVED WITH THE CIVIL SITE-PLAN REVIEW BUT MAY BE REVISED AT FIRE CODE REVIEW, BY THE BUILDING OFFICIAL.

CONTRACTOR TO PLACE FIRE LANE SIGN AT A MAXIMUM INTERVAL OF 100' ALONG PROPOSED FIRE LANE. CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHAL/FIRE INSPECTOR FOR FINAL LOCATION OF PROPOSED SIGNAGE.

ALL FIRE LANE SHOWN SHALL BE 7" REINFORCED CONCRETE PAVEMENT
REFER TO SHEET C1.02.

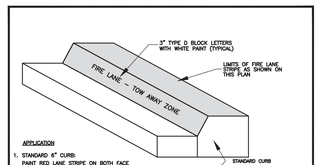


FIRE LANE SIGN SPECIFICATIONS:
1. Size of sign: Standard – 18 inches in width, 24 inches in height
2. Colors: White – Outer border, background and FIRE LANE letters
   Red – inner border, Prohibitive Symbol, and Arrow Block – Letter P.
3. Letter sizes: "P" – 6 inches
   FIRE LANE – 2 inches
4. Prohibitive symbol: 10-inch o.d.
5. Background for FIRE LANE: 3 inches in height
6. Arrow: Head: 2¾ inches in height
   Shaft: 1 inch in width, 14 inches in length

TOW-AWAY ZONE SIGN SPECIFICATIONS:
1. Size: 18 inches in width
   7 inches in height
2. Colors: White – Outer border and background
   Black – Inner border and TOW-AWAY ZONE
3. Letters: 2 inches in height

NOTES:
1. At the beginning and end of the fire lane, the sign shall have a single headed arrow attached in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
2. The maximum spacing of the signs shall be 100', contingent upon Fire Marshal's review and approval.
3. The signs shall be set at an angle of not less than 30° nor more than 45° with the curb or line of traffic flow
4. The clearance to the bottom of the sign shall be 7 feet. There shall be no other signs attached to the sign or the sign pole.
5. The sign plate shall be a minimum of 12" x 18" with a thickness of 0.08".
6. Tow Away Zone signs shall be provided along with all approved Fire Lane signs.
7. Signs may be combined as one sign provided the requirements for the individual signs are met.

FIRE LANE & TOW-AWAY ZONE SIGNS



APPLICATION

1. STANDARD 6" CURB:
   PAINT RED LANE STRIPE ON BOTH FACE AND TOP OF CURB. PAINT WHITE LETTERS ON FACE OF CURB ONLY.
2. LOW CURB (HEADER CURB OR NO CURB):
   PAINT RED LANE STRIPE AND WHITE LETTERS ON TOP OF HEADER CURB OR PAVEMENT.
3. DESIGNATED CURBS SHALL BE PAINTED "RED" CURBS SHALL BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE – TOW AWAY ZONE" IN WHITE LETTERS AT LEAST 3" IN HEIGHT, AT INTERVALS NOT EXCEEDING 50'.
4. DESIGNATED STRIPE ON PAVEMENT SHALL BE PAINTED "RED". STRIPES SHALL BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE – TOW AWAY ZONE" IN WHITE LETTERS AT LEAST 3" IN HEIGHT, AT INTERVALS NOT EXCEEDING 50'.

FIRE LANE DETAIL
N.T.S.

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FIRE ACCESS LAYOUT

Sheet

C1.03

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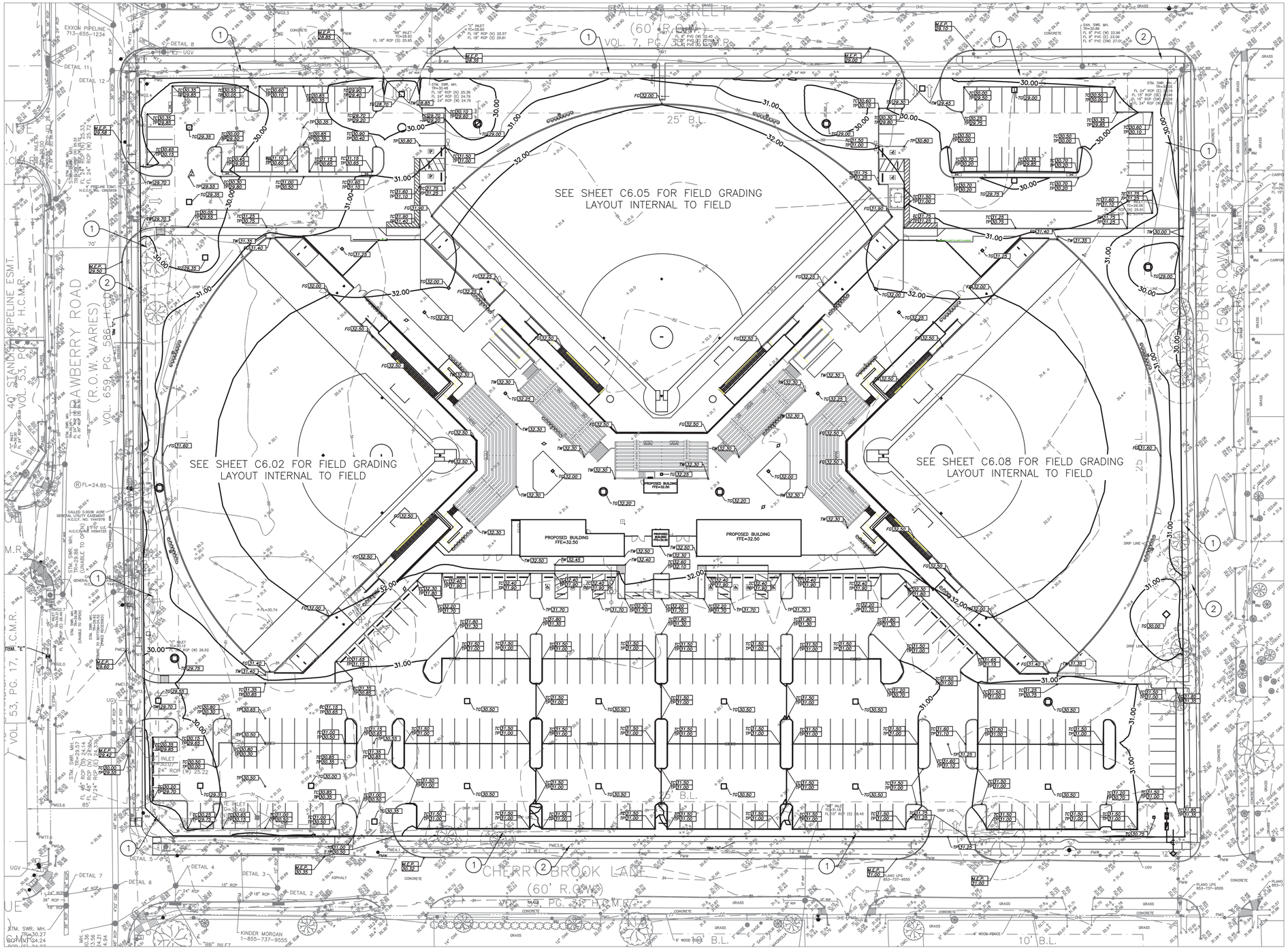

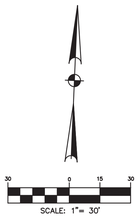

LEGEND:

- PROPOSED GRATE/CURB INLET
- PROPOSED STORM SEWER MANHOLE WITH GRATE TOP
- EXISTING INLET
- TC 45.00 — PROPOSED TOP OF CURB ELEV.
- TP 45.00 — PROPOSED TOP OF PVMT ELEV.
- TW 45.00 — PROPOSED TOP OF WALK ELEV.
- FL 45.00 — PROPOSED FLOWLINE ELEV.
- FG 45.00 — PROPOSED FINISHED GRADE ELEV.
- TG 45.00 — PROPOSED TOP OF GRATE ELEV.
- 45.00 — PROPOSED CONTOUR
- M.E.C. — MATCH EXIST. CURB & GUTTER
- M.E.P. — MATCH EXIST. PAVEMENT
- M.E.W. — MATCH EXIST. WALK
- DIRECTION OF FLOW
- PROPOSED GRADE BREAK

KEYED NOTES TO SHEET:

1. MUST BE GRADED BACK TO NATURAL GROUND AT ALL PROPERTY LINES
2. MAXIMUM CROSS SLOPE ACROSS SIDEWALK/CROSSWALK @ 2.0%

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SITE GRADING PLAN

Sheet

C2.01

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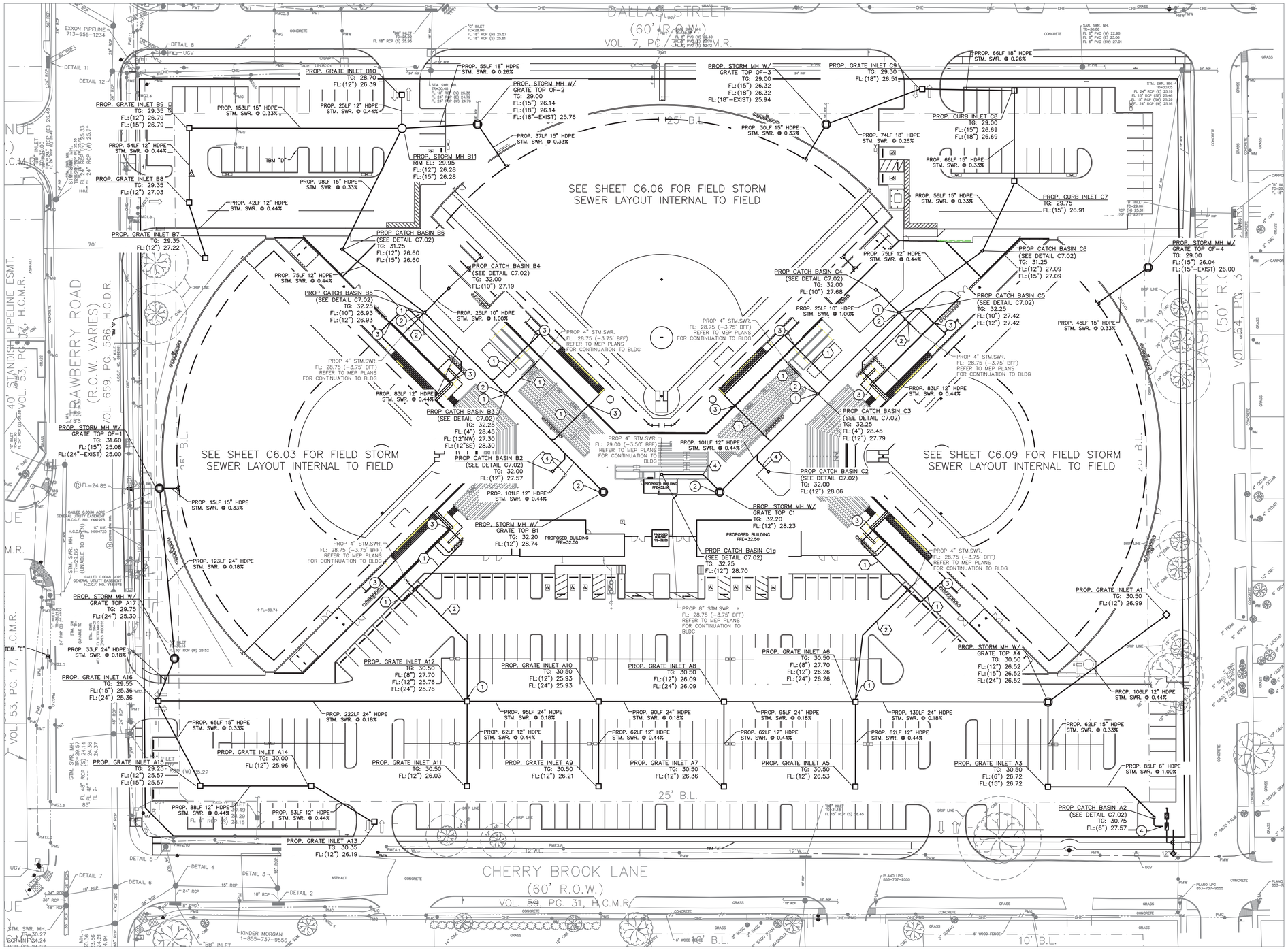

DALLAS STREET
(60' R.O.W.)
VOL. 7, PG. 3, H.C.M.R.
SEE SHEET C6.06 FOR FIELD STORM SEWER LAYOUT INTERNAL TO FIELD
SEE SHEET C6.03 FOR FIELD STORM SEWER LAYOUT INTERNAL TO FIELD
SEE SHEET C6.09 FOR FIELD STORM SEWER LAYOUT INTERNAL TO FIELD
STRAWBERRY ROAD
(R.O.W. VARIES)
VOL. 659, PG. 586 H.C.D.R.
RASPBERRY LANE
(50' R.O.W.)
VOL. 64, PG. 3
CHERRY BROOK LANE
(60' R.O.W.)
VOL. 53, PG. 31, H.C.M.R.
40' STANDISH PIPELINE ESMT.
VOL. 53, PG. 17, H.C.M.R.
EXXON PIPELINE
713-655-1234
PROP. GRATE INLET B10
TG: 28.70
FL:(12") 26.39
PROP. 55LF 18" HDPE
STM. SWR. @ 0.26%
PROP. STORM MH W/
GRATE TOP OF-2
TG: 29.00
FL:(15") 26.14
FL:(18") 26.14
FL:(18"-EXIST) 25.76
PROP. 25LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 153LF 15" HDPE
STM. SWR. @ 0.33%
PROP. 37LF 15" HDPE
STM. SWR. @ 0.33%
PROP. STORM MH B11
RIM EL: 29.95
FL:(12") 26.28
FL:(15") 26.28
PROP. GRATE INLET B9
TG: 29.35
FL:(12") 26.79
FL:(15") 26.79
PROP. 54LF 12" HDPE
STM. SWR. @ 0.44%
PROP. GRATE INLET B8
TG: 29.35
FL:(12") 27.03
PROP. 98LF 15" HDPE
STM. SWR. @ 0.33%
PROP. 42LF 12" HDPE
STM. SWR. @ 0.44%
PROP. GRATE INLET B7
TG: 29.35
FL:(12") 27.22
PROP. STORM MH W/
GRATE TOP OF-3
TG: 29.00
FL:(15") 26.32
FL:(18") 26.32
FL:(18"-EXIST) 25.94
PROP. GRATE INLET C9
TG: 29.30
FL:(18") 26.51
PROP. 66LF 18" HDPE
STM. SWR. @ 0.26%
PROP. CURB INLET C8
TG: 29.00
FL:(15") 26.69
FL:(18") 26.69
PROP. 74LF 18" HDPE
STM. SWR. @ 0.26%
PROP. 66LF 15" HDPE
STM. SWR. @ 0.33%
PROP. 30LF 15" HDPE
STM. SWR. @ 0.33%
PROP. 56LF 15" HDPE
STM. SWR. @ 0.33%
PROP. CURB INLET C7
TG: 29.75
FL:(15") 26.91
PROP. CATCH BASIN B6
(SEE DETAIL C7.02)
TG: 31.25
FL:(12") 26.60
FL:(15") 26.60
PROP. CATCH BASIN B4
(SEE DETAIL C7.02)
TG: 32.00
FL:(10") 27.19
PROP. 75LF 12" HDPE
STM. SWR. @ 0.44%
PROP. CATCH BASIN B5
(SEE DETAIL C7.02)
TG: 32.25
FL:(10") 26.93
FL:(12") 26.93
PROP. 25LF 10" HDPE
STM. SWR. @ 1.00%
PROP. CATCH BASIN C4
(SEE DETAIL C7.02)
TG: 32.00
FL:(10") 27.68
PROP. 75LF 12" HDPE
STM. SWR. @ 0.44%
PROP. CATCH BASIN C6
(SEE DETAIL C7.02)
TG: 31.25
FL:(12") 27.09
FL:(15") 27.09
PROP. CATCH BASIN C5
(SEE DETAIL C7.02)
TG: 32.25
FL:(10") 27.42
FL:(12") 27.42
PROP. 45LF 15" HDPE
STM. SWR. @ 0.33%
PROP. STORM MH W/
GRATE TOP OF-4
TG: 29.00
FL:(15") 26.04
FL:(15"-EXIST) 26.00
PROP 4" STM.SWR.
FL: 28.75 (~3.75' BFF)
REFER TO MEP PLANS
FOR CONTINUATION TO BLDG
PROP. 83LF 12" HDPE
STM. SWR. @ 0.44%
PROP. CATCH BASIN B3
(SEE DETAIL C7.02)
TG: 32.25
FL:(4") 28.45
FL:(12"NW) 27.30
FL:(12"SE) 28.30
PROP. 101LF 12" HDPE
STM. SWR. @ 0.44%
PROP. CATCH BASIN B2
(SEE DETAIL C7.02)
TG: 32.00
FL:(12") 27.57
PROP. 101LF 12" HDPE
STM. SWR. @ 0.44%
PROP. CATCH BASIN C3
(SEE DETAIL C7.02)
TG: 32.25
FL:(4") 28.45
FL:(12") 27.79
PROP. CATCH BASIN C2
(SEE DETAIL C7.02)
TG: 32.00
FL:(12") 28.06
PROP. STORM MH W/
GRATE TOP B1
TG: 32.20
FL:(12") 28.74
PROP. STORM MH W/
GRATE TOP C1
TG: 32.20
FL:(12") 28.23
PROP. CATCH BASIN C1a
(SEE DETAIL C7.02)
TG: 32.25
FL:(12") 28.70
PROPOSED BUILDING
FFE=32.50
PROP 8" STM.SWR.
FL: 28.75 (~3.75' BFF)
REFER TO MEP PLANS
FOR CONTINUATION TO BLDG
PROP. 15LF 15" HDPE
STM. SWR. @ 0.33%
PROP. 123LF 24" HDPE
STM. SWR. @ 0.18%
PROP. STORM MH W/
GRATE TOP A17
TG: 29.75
FL:(24") 25.30
PROP. 33LF 24" HDPE
STM. SWR. @ 0.18%
PROP. GRATE INLET A16
TG: 29.55
FL:(15") 25.36
FL:(24") 25.36
PROP. GRATE INLET A12
TG: 30.50
FL:(8") 27.70
FL:(12") 25.76
FL:(24") 25.76
PROP. GRATE INLET A10
TG: 30.50
FL:(12") 25.93
FL:(24") 25.93
PROP. GRATE INLET A8
TG: 30.50
FL:(12") 26.09
FL:(24") 26.09
PROP. GRATE INLET A6
TG: 30.50
FL:(8") 27.70
FL:(12") 26.26
FL:(24") 26.26
PROP. STORM MH W/
GRATE TOP A4
TG: 30.50
FL:(12") 26.52
FL:(15") 26.52
FL:(24") 26.52
PROP. 106LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 222LF 24" HDPE
STM. SWR. @ 0.18%
PROP. 95LF 24" HDPE
STM. SWR. @ 0.18%
PROP. 90LF 24" HDPE
STM. SWR. @ 0.18%
PROP. 95LF 24" HDPE
STM. SWR. @ 0.18%
PROP. 139LF 24" HDPE
STM. SWR. @ 0.18%
PROP. 65LF 15" HDPE
STM. SWR. @ 0.33%
PROP. GRATE INLET A14
TG: 30.00
FL:(12") 25.96
PROP. GRATE INLET A11
TG: 30.50
FL:(12") 26.03
PROP. GRATE INLET A9
TG: 30.50
FL:(12") 26.21
PROP. GRATE INLET A7
TG: 30.50
FL:(12") 26.36
PROP. GRATE INLET A5
TG: 30.50
FL:(12") 26.53
PROP. GRATE INLET A3
TG: 30.50
FL:(6") 26.72
FL:(15") 26.72
PROP. 62LF 15" HDPE
STM. SWR. @ 0.33%
PROP. 62LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 62LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 62LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 62LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 85LF 6" HDPE
STM. SWR. @ 1.00%
PROP. GRATE INLET A15
TG: 29.25
FL:(12") 25.57
FL:(15") 25.57
PROP. 88LF 12" HDPE
STM. SWR. @ 0.44%
PROP. 53LF 12" HDPE
STM. SWR. @ 0.44%
PROP. GRATE INLET A13
TG: 30.35
FL:(12") 26.19
PROP. CATCH BASIN A2
(SEE DETAIL C7.02)
TG: 30.75
FL:(6") 27.57
PROP. GRATE INLET A1
TG: 30.50
FL:(12") 26.99
PROP. 4" STM.SWR.
FL: 28.75 (~3.75' BFF)
REFER TO MEP PLANS
FOR CONTINUATION TO BLDG
PROP. 4" STM.SWR.
FL: 29.00 (~3.50' BFF)
REFER TO MEP PLANS
FOR CONTINUATION TO BLDG
PROPOSED BUILDING
FFE=32.50
PROPOSED BUILDING
FFE=32.50
PROPOSED BUILDING
FFE=32.50
TBM "D"
TBM "E"
TBM "A"
TBM "B"
TBM "C"
DETAIL 2
DETAIL 3
DETAIL 4
DETAIL 5
DETAIL 6
DETAIL 7
DETAIL 8
DETAIL 11
DETAIL 12
KINDER MORGAN
1-855-737-9555
PLANO LPG
853-737-9555
"BB" INLET
"BB" INLET
STM. SWR. MH.
STM. SWR. MH.
STM. SWR. MH.

2–YEAR STORM SEWER CALCULATIONS

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: System "A"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.00
Frequency 2
b = 48.35
d = 9.07
e = 0.7244

Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
A1	1	4	0.13	0.13	0.80	21.98	4.01	0.42	0.00	0.42	106	12	HDPE	0.44	0.012	2.57	3.27	26.99	26.52	0.53	27.99	28.54	28.53	30.50	1.96	2.51
A2	2	3	0.02	0.02	0.35	20.02	4.21	0.03	0.00	0.03	85	6	HDPE	1.00	0.012	0.61	3.10	27.57	26.72	0.15	28.07	28.54	28.54	30.75	2.21	2.68
A3	3	4	0.24	0.26	0.80	20.34	4.18	0.80	0.00	0.83	62	15	HDPE	0.33	0.012	4.03	3.28	26.72	26.52	0.68	27.97	28.54	28.53	30.50	1.96	2.53
A4	4	6	0.22	0.61	0.80	21.98	4.01	0.71	0.00	1.95	139	24	HDPE	0.18	0.012	10.43	3.32	26.52	26.26	0.62	28.52	28.53	28.52	30.50	1.97	1.98
A5	5	6	0.18	0.18	0.80	22.39	3.98	0.57	0.00	0.57	62	12	HDPE	0.44	0.012	2.57	3.27	26.53	26.26	0.73	27.53	28.30	28.28	30.50	2.20	2.97
A6	6	8	0.40	1.19	0.80	22.39	3.98	1.27	0.00	3.80	95	24	HDPE	0.18	0.012	10.43	3.32	26.26	26.09	1.21	28.26	28.28	28.26	30.50	2.22	2.24
A7	7	8	0.14	0.14	0.80	22.07	4.00	0.45	0.00	0.45	62	12	HDPE	0.44	0.012	2.57	3.27	26.36	26.09	0.57	27.36	28.14	28.13	30.50	2.36	3.14
A8	8	10	0.28	1.61	0.80	22.39	3.98	0.89	0.00	5.14	90	24	HDPE	0.18	0.012	10.43	3.32	26.09	25.93	1.64	28.09	28.13	28.09	30.50	2.37	2.41
A9	9	10	0.14	0.14	0.80	22.07	4.00	0.45	0.00	0.45	62	12	HDPE	0.44	0.012	2.57	3.27	26.21	25.93	0.57	27.21	28.05	28.04	30.50	2.45	3.29
A10	10	12	0.28	2.03	0.80	22.39	3.98	0.89	0.00	6.48	95	24	HDPE	0.18	0.012	10.43	3.32	25.93	25.76	2.06	27.93	28.04	27.97	30.50	2.46	2.57
A11	11	12	0.14	0.14	0.80	22.07	4.00	0.45	0.00	0.45	62	12	HDPE	0.44	0.012	2.57	3.27	26.03	25.76	0.57	27.03	27.98	27.97	30.50	2.52	3.47
A12	12	16	0.24	2.41	0.80	22.39	3.98	0.76	0.00	7.69	222	24	HDPE	0.18	0.012	10.43	3.32	25.76	25.36	2.45	27.76	27.97	27.76	30.50	2.53	2.74
A13	13	14	0.24	0.24	0.80	22.78	3.94	0.76	0.00	0.76	53	12	HDPE	0.44	0.012	2.57	3.27	26.19	25.96	0.96	27.19	27.72	27.70	30.35	2.63	3.16
A14	14	15	0.19	0.43	0.80	23.23	3.90	0.59	0.00	1.35	88	12	HDPE	0.44	0.012	2.57	3.27	25.96	25.57	1.72	26.96	27.70	27.59	30.00	2.30	3.04
A15	15	16	0.16	0.59	0.80	23.56	3.87	0.50	0.00	1.85	65	15	HDPE	0.33	0.012	4.03	3.28	25.57	25.36	1.50	26.82	27.59	27.55	29.25	1.66	2.43
A16	16	17	0.06	3.06	0.80	23.56	3.87	0.19	0.00	9.72	33	24	HDPE	0.18	0.012	10.43	3.32	25.36	25.30	3.09	27.36	27.55	27.50	29.55	2.00	2.19
A17	17	OF-1	0.12	3.18	0.35	24.17	3.82	0.16	0.00	9.88	123	24	HDPE	0.18	0.012	10.43	3.32	25.30	25.08	3.15	27.30	27.50	27.30	29.75	2.25	2.45
FIELD A	FIELD A	OF-1	0.97	0.97	0.35	24.95	3.76	1.28	0.00	1.28	15	15	HDPE	0.33	0.012	4.03	3.28	25.12	25.08	1.04	26.37	27.04	27.04	31.60	4.56	5.23
OF-1	OF-1	EXIST 24"	0.00	4.15	0.35	24.95	3.76	0.00	0.00	11.16	15	24	RCP	0.50	0.013	16.04	5.11	25.08	25.00	3.55	27.08	27.04	27.00	31.60	4.56	4.53

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: System "B"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.26
Frequency 2
b = 48.35
d = 9.07
e = 0.7244

Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
B1	1	2	0.20	0.20	0.80	22.53	3.96	0.63	0.00	0.63	40	12	HDPE	0.44	0.012	2.57	3.27	27.74	27.57	0.81	28.74	28.75	28.74	32.20	3.45	3.46
B2	2	3	0.11	0.31	0.35	22.84	3.93	0.15	0.00	0.79	61	12	HDPE	0.44	0.012	2.57	3.27	27.57	27.30	1.00	28.57	28.59	28.57	32.00	3.41	3.44
B3	3	5	0.12	0.43	0.80	23.27	3.90	0.37	0.00	1.16	83	12	HDPE	0.44	0.012	2.57	3.27	27.30	26.93	1.48	28.30	28.37	28.30	32.25	3.88	3.95
B4	4	5	0.05	0.05	0.35	20.90	4.12	0.07	0.00	0.07	25	10	HDPE	1.00	0.012	2.38	4.36	27.19	26.93	0.13	28.02	28.06	28.06	32.00	3.94	3.98
B5	5	6	0.11	0.59	0.80	23.27	3.90	0.34	0.00	1.57	75	12	HDPE	0.44	0.012	2.57	3.27	26.93	26.60	2.01	27.93	28.06	27.93	32.25	4.19	4.32
B6	6	11	0.06	0.65	0.35	23.76	3.85	0.08	0.00	1.66	98	15	HDPE	0.33	0.012	4.03	3.28	26.60	26.28	1.35	27.85	27.91	27.85	31.25	3.34	3.40
B7	7	8	0.10	0.10	0.35	21.67	4.04	0.14	0.00	0.14	42	12	HDPE	0.44	0.012	2.57	3.27	27.22	27.03	0.18	28.22	28.22	28.22	29.35	1.13	1.13
B8	8	9	0.21	0.31	0.80	21.94	4.02	0.67	0.00	0.82	54	12	HDPE	0.44	0.012	2.57	3.27	27.03	26.79	1.04	28.03	28.16	28.13	29.35	1.19	1.32
B9	9	11	0.28	0.59	0.80	22.72	3.95	0.88	0.00	1.70	153	15	HDPE	0.33	0.012	4.03	3.28	26.79	26.28	1.39	28.04	28.13	28.04	29.35	1.22	1.31
B10	10	11	0.09	0.09	0.80	21.54	4.06	0.29	0.00	0.29	25	12	HDPE	0.44	0.012	2.57	3.27	26.39	26.28	0.37	27.39	27.84	27.83	28.70	0.86	1.31
B11	11	OF-2	0.00	1.33	0.80	23.76	3.85	0.00	0.00	3.65	55	18	HDPE	0.26	0.012	5.82	3.29	26.28	26.14	2.06	27.78	27.83	27.78	29.95	2.12	2.17
FIELD B	FIELD B	OF-2	0.56	0.56	0.35	24.03	3.83	0.75	0.00	0.75	37	15	HDPE	0.33	0.012	4.03	3.28	26.26	26.14	0.61	27.51	27.51	27.51	31.90	4.39	4.39
OF-2	OF-2	EXIST 18"	0.14	2.03	0.35	24.03	3.83	0.19	0.00	4.59	15	18	RCP	2.50	0.013	16.65	9.42	26.14	25.76	2.60	27.64	27.29	27.26	29.00	1.71	1.37

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: System "C"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.44
Frequency 2
b = 48.35
d = 9.07
e = 0.7244

Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
C1 & C1a	1	2	0.26	0.26	0.80	22.89	3.93	0.82	0.00	0.82	40	12	HDPE	0.44	0.012	2.57	3.27	28.23	28.06	1.04	29.23	29.25	29.23	32.20	2.95	2.97
C2	2	3	0.11	0.37	0.35	23.20	3.90	0.15	0.00	0.97	61	12	HDPE	0.44	0.012	2.57	3.27	28.06	27.79	1.23	29.06	29.09	29.06	32.00	2.91	2.94
C3	3	5	0.12	0.49	0.80	23.62	3.87	0.37	0.00	1.34	83	12	HDPE	0.44	0.012	2.57	3.27	27.79	27.42	1.70	28.79	28.89	28.79	32.25	3.36	3.46
C4	4	5	0.05	0.05	0.35	20.90	4.12	0.07	0.00	0.07	25	10	HDPE	1.00	0.012	2.38	4.36	27.68	27.42	0.13	28.51	28.58	28.58	32.00	3.42	3.49
C5	5	6	0.11	0.65	0.80	23.62	3.87	0.34	0.00	1.75	75	12	HDPE	0.44	0.012	2.57	3.27	27.42	27.09	2.23	28.42	28.58	28.42	32.25	3.67	3.83
C6	6	7	0.06	0.71	0.35	23.91	3.84	0.08	0.00	1.83	56	15	HDPE	0.33	0.012	4.03	3.28	27.09	26.91	1.49	28.34	28.38	28.34	31.25	2.87	2.91
C7	7	8	0.17	0.88	0.80	24.24	3.81	0.52	0.00	2.35	66	15	HDPE	0.33	0.012	4.03	3.28	26.91	26.69	1.92	28.16	28.32	28.24	29.75	1.43	1.59
C8	8	9	0.30	1.18	0.80	24.58	3.79	0.91	0.00	3.26	66	18	HDPE	0.26	0.012	5.82	3.29	26.69	26.51	1.84	28.19	28.24	28.19	29.00	0.76	0.81
C9	9	OF-3	0.09	1.27	0.80	24.95	3.76	0.27	0.00	3.53	74	18	HDPE	0.26	0.012	5.82	3.29	26.51	26.32	2.00	28.01	28.06	28.01	29.30	1.22	1.29
FIELD B	FIELD B	OF-3	0.56	0.56	0.35	24.03	3.83	0.75	0.00	0.75	30	15	HDPE	0.33	0.012	4.03	3.28	26.41	26.32	0.61	27.66	27.67	27.66	31.90	4.23	4.24
OF-3	OF-3	EXIST 18"	0.14	1.97	0.35	24.95	3.76	0.18	0.00	4.47	15	18	RCP	2.50	0.013	16.65	9.42	26.32	25.94	2.53	27.82	27.47	27.44	29.00	1.53	1.19

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: Field "C"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.25
Frequency 2
b = 48.35
d = 9.07
e = 0.7244

Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
FIELD C	FIELD C	OF-4	0.97	0.97	0.35	24.95	3.76	1.28	0.00	1.28	45	15	HDPE	0.33	0.012	4.03	3.28	26.19	26.04	1.04	27.44	27.45	27.44	31.40	3.95	3.96
OF-4	OF-4	EXIST 15"	0.11	1.08	0.35	24.95	3.76	0.14	0.00	1.42	15	15	RCP	0.25	0.013	3.24	2.64	26.04	26.00	1.16	27.29	27.26	27.25	29.00	1.74	1.71

100–YEAR STORM SEWER CALCULATIONS

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: System "A"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.00
Frequency 100
b = 60.66
d = 4.44
e = 0.5797

Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
A1	1	4	0.13	0.13	0.80	21.98	9.09	0.95	0.00	0.95	106	12	HDPE	0.44	0.012	2.57	3.27	26.99	26.52	1.20	27.99	30.46	30.40	30.50	0.04	2.51
A2	2	3	0.02	0.02	0.35	20.02	9.51	0.07	0.00	0.07	85	6	HDPE	1.00	0.012	0.61	3.10	27.57	26.72	0.34	28.07	30.45	30.44	30.75	0.30	2.68
A3	3	4	0.24	0.26	0.80	20.34	9.44	1.81	0.00	1.88	62	15	HDPE	0.33	0.012	4.03	3.28	26.72	26.52	1.53	27.97	30.44	30.40	30.50	0.06	2.53
A4	4	6	0.22	0.61	0.80	21.98	9.09	1.60	0.00	4.42	139	24	HDPE	0.18	0.012	10.43	3.32	26.52	26.26	1.41	28.52	30.40	30.36	30.50	0.10	1.98
A5	5	6	0.18	0.18	0.80	22.39	9.01	1.30	0.00	1.30	62	12	HDPE	0.44	0.012	2.57	3.27	26.53	26.26	1.65	27.53	30.42	30.36	30.50	0.08	2.97
A6	6	8	0.40	1.19	0.80	22.39	9.01	2.88	0.00	8.60	95	24	HDPE	0.18	0.012	10.43	3.32	26.26	26.09	2.74	28.26	30.36	30.24	30.50	0.14	2.24
A7	7	8	0.14	0.14	0.80	22.07	9.07	1.02	0.00	1.02	62	12	HDPE	0.44	0.012	2.57	3.27	26.36	26.09	1.29	27.36	30.28	30.24	30.50	0.22	3.14
A8	8	10	0.28	1.61	0.80	22.39	9.01	2.02	0.00	11.64	90	24	HDPE	0.18	0.012	10.43	3.32	26.09	25.93	3.70	28.09	30.24	30.04	30.50	0.25	2.41
A9	9	10	0.14	0.14	0.80	22.07	9.07	1.02	0.00	1.02	62	12	HDPE	0.44	0.012	2.57	3.27	26.21	25.93	1.29	27.21	30.08	30.04	30.50	0.42	3.29
A10	10	12	0.28	2.03	0.80	22.39	9.01	2.02	0.00	14.67	95	24	HDPE	0.18	0.012	10.43	3.32	25.93	25.76	4.67	27.93	30.04	29.70	30.50	0.46	2.57
A11	11	12	0.14	0.14	0.80	22.07	9.07	1.02	0.00	1.02	62	12	HDPE	0.44	0.012	2.57	3.27	26.03	25.76	1.29	27.03	29.74	29.70	30.50	0.76	3.47
A12	12	16	0.24	2.41	0.80	22.39	9.01	1.73	0.00	17.42	222	24	HDPE	0.18	0.012	10.43	3.32	25.76	25.36	5.54	27.76	29.70	28.58	30.50	0.80	2.74
A13	13	14	0.24	0.24	0.80	22.78	8.94	1.72	0.00	1.72	53	12	HDPE	0.44	0.012	2.57	3.27	26.19	25.96	2.18	27.19	29.47	29.36	30.35	0.88	3.16
A14	14	15	0.19	0.43	0.80	23.23	8.85	1.35	0.00	3.06	88	12	HDPE	0.44	0.012	2.57	3.27	25.96	25.57	3.90	26.96	29.36	28.81	30.00	0.64	3.04
A15	15	16	0.16	0.59	0.80	23.56	8.79	1.13	0.00	4.19	65	15	HDPE	0.33	0.012	4.03	3.28	25.57	25.36	3.41	26.82	28.81	28.58	29.25	0.44	2.43
A16	16	17	0.06	3.06	0.80	23.56	8.79	0.42	0.00	22.03	33	24	HDPE	0.18	0.012	10.43	3.32	25.36	25.30	7.01	27.36	28.58	28.32	29.55	0.97	2.19
A17	17	OF-1	0.12	3.18	0.35	24.17	8.68	0.36	0.00	22.39	123	24	HDPE	0.18	0.012	10.43	3.32	25.30	25.08	7.13	27.30	28.32	27.30	29.75	1.43	2.45
FIELD A	FIELD A	OF-1	0.97	0.97	0.35	24.95	8.55	2.90	0.00	2.90	15	15	HDPE	0.33	0.012	4.03	3.28	25.12	25.08	2.36	26.37	27.21	27.19	31.60	4.39	5.23
OF-1	OF-1	EXIST 24"	0.00	4.15	0.35	24.95	8.55	0.00	0.00	25.29	15	24	RCP	0.50	0.013	16.04	5.11	25.08	25.00	8.05	27.08	27.19	27.00	31.60	4.41	4.53

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: System "B"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.26
Frequency 100
b = 60.66
d = 4.44
e = 0.5797

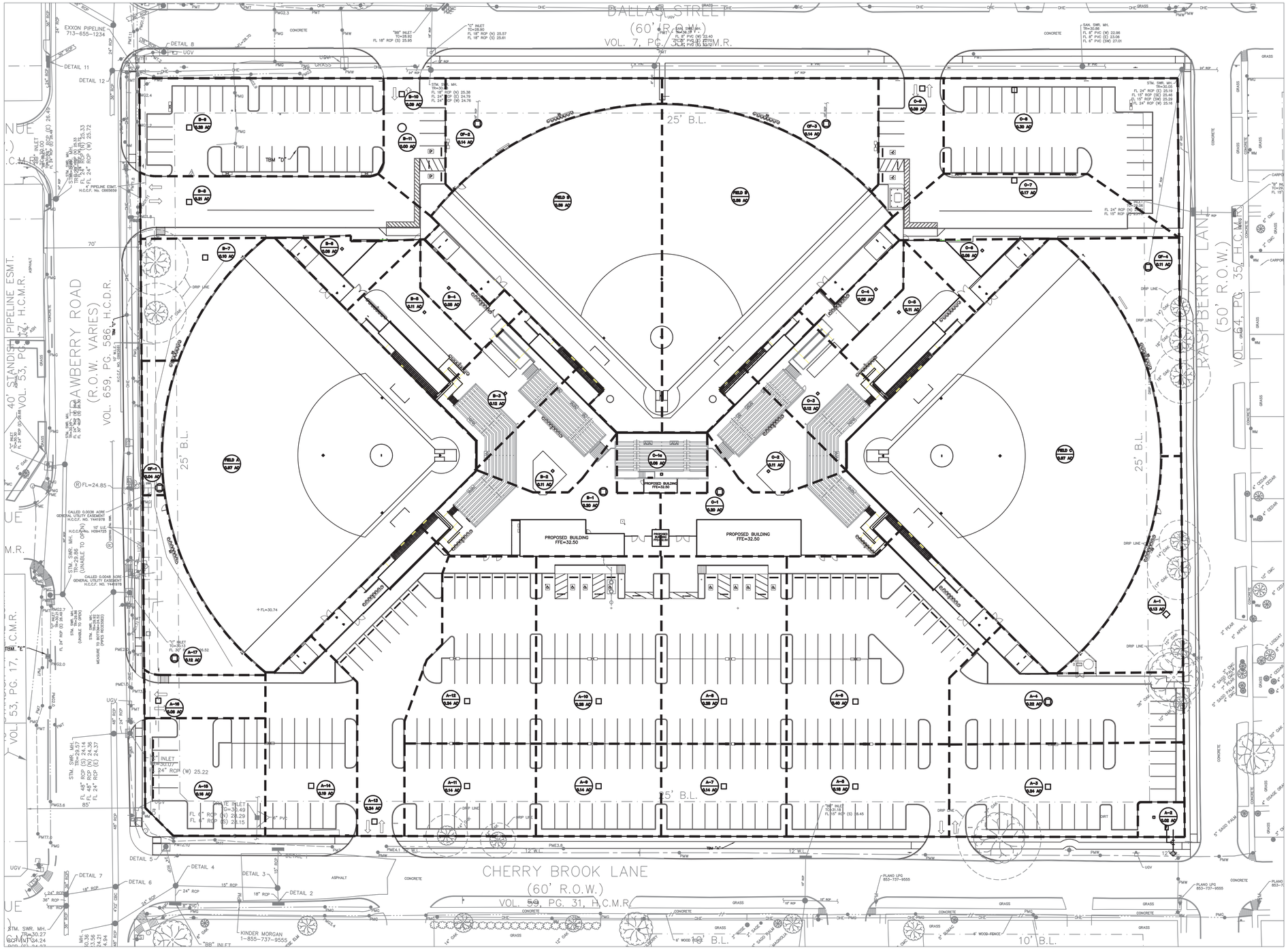
Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
B1	1	2	0.20	0.20	0.80	22.53	8.98	1.44	0.00	1.44	40	12	HDPE	0.44	0.012	2.57	3.27	27.74	27.57	1.83	28.74	29.55	29.50	32.20	2.65	3.46
B2	2	3	0.11	0.31	0.35	22.84	8.92	0.34	0.00	1.78	61	12	HDPE	0.44	0.012	2.57	3.27	27.57	27.30	2.27	28.57	29.50	29.37	32.00	2.50	3.44
B3	3	5	0.12	0.43	0.80	23.27	8.84	0.85	0.00	2.63	83	12	HDPE	0.44	0.012	2.57	3.27	27.30	26.93	3.35	28.30	29.37	28.99	32.25	2.88	3.95
B4	4	5	0.05	0.05	0.35	20.90	9.31	0.16	0.00	0.16	25	10	HDPE	1.00	0.012	2.38	4.36	27.19	26.93	0.30	28.02	28.99	28.99	32.00	3.01	3.98
B5	5	6	0.11	0.59	0.80	23.27	8.84	0.78	0.00	3.57	75	12	HDPE	0.44	0.012	2.57	3.27	26.93	26.60	4.55	27.93	28.99	28.35	32.25	3.26	4.32
B6	6	11	0.06	0.65	0.35	23.76	8.75	0.18	0.00	3.75	98	15	HDPE	0.33	0.012	4.03	3.28	26.60	26.28	3.06	27.85	28.35	28.07	31.25	2.90	3.40
B7	7	8	0.10	0.10	0.35	21.67	9.15	0.32	0.00	0.32	42	12	HDPE	0.44	0.012	2.57	3.27	27.22	27.03	0.41	28.22	28.65	28.65	29.35	0.70	1.13
B8	8	9	0.21	0.31	0.80	21.94	9.10	1.53	0.00	1.85	54	12	HDPE	0.44	0.012	2.57	3.27	27.03	26.79	2.35	28.03	28.65	28.53	29.35	0.70	1.32
B9	9	11	0.28	0.59	0.80	22.72	8.95	2.00	0.00	3.85	153	15	HDPE	0.33	0.012	4.03	3.28	26.79	26.28	3.14	28.04	28.53	28.07	29.35	0.82	1.31
B10	10	11	0.09	0.09	0.80	21.54	9.18	0.66	0.00	0.66	25	12	HDPE	0.44	0.012	2.57	3.27	26.39	26.28	0.84	27.39	28.07	28.07	28.70	0.63	1.31
B11	11	OF-2	0.00	1.33	0.80	23.76	8.75	0.00	0.00	8.27	55	18	HDPE	0.26	0.012	5.82	3.29	26.28	26.14	4.68	27.78	28.07	27.78	29.95	1.88	2.17
FIELD B	FIELD B	OF-2	0.56	0.56	0.35	24.03	8.71	1.71	0.00	1.71	37	15	HDPE	0.33	0.012	4.03	3.28	26.26	26.14	1.39	27.51	27.53	27.51	31.90	4.37	4.39
OF-2	OF-2	EXIST 18"	0.14	2.03	0.35	24.03	8.71	0.43	0.00	10.40	15	18	RCP	2.50	0.013	16.65	9.42	26.14	25.76	5.89	27.64	27.41	27.26	29.00	1.59	1.37

Talon Engineering, LLC — STORM SEWER CALCULATION SHEET

Project Information:
Project: Pasadena I.S.D. Softball Complex
Job No.: 273-0001
System: System "C"
Designed: BWR
Checked: BWR

HGL Tie-In (ft): 27.44
Frequency 100
b = 60.66
d = 4.44
e = 0.5797

Line	Manholes/Inlets from	to	Local Area acre	Total Area	C Factor	Tc minutes	I in/hr	Local Q cfs	Add. Q cfs	Total Q cfs	Reach ft	Pipe Size in	Line Type	Slope %	n	Design Q cfs	Design V fps	Flowline Elevation upstrm	dwnstrm	Actual V fps	Crown Pipe Up (ft)	HGL upstrm	dwnstrm	TG elev	TG-HGL ft	Cover ft
C1 & C1a	1	2	0.26	0.26	0.80	22.89	8.91	1.85	0.00	1.85	40	12	HDPE	0.44	0.012	2.57	3.27	28.23	28.06	2.36	29.23	30.82	30.73	32.20	1.38	2.97
C2	2	3	0.11	0.37	0.35	23.20	8.86	0.34	0.00	2.20	61	12	HDPE	0.44	0.012	2.57	3.27	28.06	27.79	2.80	29.06	30.73	30.53	32.00	1.27	2.94
C3	3	5	0.12	0.49	0.80	23.62	8.78	0.84	0.00	3.04	83	12	HDPE	0.44	0.012	2.57	3.27	27.79	27.42	3.87	28.79	30.53	30.02	32.25	1.72	3.46
C4	4	5	0.05	0.05	0.35	20.90	9.31	0.16	0.00	0.16	25	10	HDPE	1.00	0.012	2.38	4.36	27.68	27.42	0.30	28.51	30.02	30.02	32.00	1.98	3.49
C5	5	6	0.11	0.65	0.80	23.62	8.78	0.77	0.00	3.97	75	12	HDPE	0.44	0.012	2.57	3.27	27.42	27.09	5.06	28.42	30.02	29.23	32.25	2.23	3.83
C6	6	7	0.06	0.71	0.35	23.91	8.73	0.18	0.00	4.16	56	15	HDPE	0.33	0.012	4.03	3.28	27.09	26.91	3.39	28.34	29.23	29.03	31.25	2.02	2.91
C7	7	8	0.17	0.88	0.80	24.24	8.67	1.18	0.00	5.34	66	15	HDPE	0.33	0.012	4.03	3.28	26.91	26.69	4.35	28.16	29.03	28.65	29.75	0.72	1.59
C8	8	9	0.30	1.18	0.80	24.58	8.61	2.07	0.00	7.40	66	18	HDPE	0.26	0.012	5.82	3.29	26.69	26.51	4.19	28.19	28.65	28.37	29.00	0.35	0.81
C9	9	OF-3	0.09	1.27	0.80	24.95	8.55	0.62	0.00	8.02	74	18	HDPE	0.26	0.012	5.82	3.29	26.51	26.32	4.54	28.01	28.37	28.01	29.30	0.93	1.29
FIELD B


DALLAS STREET
(60' R.O.W.)
VOL. 7, PG. 31, H.C.M.R.
STRAWBERRY ROAD
(R.O.W. VARIES)
VOL 659, PG. 586 H.C.D.R.
RASPBERRY LANE
(50' R.O.W.)
VOL. 64, PG. 35, H.C.M.R.
CHERRY BROOK LANE
(60' R.O.W.)
VOL. 59, PG. 31, H.C.M.R.
40' STANDISH PIPELINE ESMT.
VOL. 53, PG. 17, H.C.M.R.
EXXON PIPELINE
713-655-1234
PROPOSED BUILDING
FFE=32.50
PROPOSED BUILDING
FFE=32.50
PROPOSED BUILDING
FFE=32.50
HOLD A
0.95 AC
HOLD B
0.95 AC
HOLD C
0.97 AC
HOLD D
0.97 AC
25' B.L.
25' B.L.
25' B.L.
5' B.L.
10' B.L.
6' WOOD FENCE
TBM "A"
TBM "B"
TBM "C"
TBM "D"
TBM "E"
KINDER MORGAN
1-855-737-9555
PLANO LPG
853-737-9555
CALLED 0.0036 ACRE
GENERAL UTILITY EASEMENT
H.C.C.F. No. 20140978
CALLED 0.0048 ACRE
GENERAL UTILITY EASEMENT
H.C.C.F. NO. 20140978
PIPELINE ESMT.
H.C.C.F. No. 0605693
10' U.E.
H.C.C.F. No. H094720
DETAIL 1
DETAIL 2
DETAIL 3
DETAIL 4
DETAIL 5
DETAIL 6
DETAIL 7
DETAIL 8
DETAIL 11
DETAIL 12
"BB" INLET
TC=28.92
FL 18" RCP (S) 25.95
"CC" INLET
TC=30.13
FL 30" RCP (S) 26.32
"DD" INLET
TC=29.49
FL 6" RCP (V) 26.29
FL 6" RCP (S) 28.15
"EE" INLET
TC=28.45
FL 15" RCP (S) 18.45
STM. SWR. MH.
TC=30.86
FL 8" PVC (W) 22.96
FL 8" PVC (E) 23.06
FL 8" PVC (SW) 27.01
STM. SWR. MH.
TC=30.00
FL 8" PVC (E) 25.49
FL 8" PVC (W) 25.72
STM. SWR. MH.
TC=29.57
FL 24" RCP (N) 24.46
FL 24" RCP (S) 24.36
FL 24" RCP (E) 24.37
STM. SWR. MH.
TC=30.27
FL 24" RCP (E) 24.24
FL 24" RCP (W) 24.21
FL 24" RCP (S) 24.04
STM. SWR. MH.
TC=30.13
FL 18" RCP (N) 25.38
FL 24" RCP (S) 24.79
FL 24" RCP (W) 24.76
STM. SWR. MH.
TC=30.00
FL 24" RCP (SE) 25.46
FL 15" RCP (SW) 25.29
FL 24" RCP (W) 25.14
STM. SWR. MH.
TC=30.00
FL 24" RCP (E) 25.53
FL 24" RCP (W) 25.72
STM. SWR. MH.
TC=29.57
FL 48" RCP (N) 24.46
FL 48" RCP (S) 24.36
FL 24" RCP (E) 24.37
STM. SWR. MH.
TC=30.27
FL 24" RCP (E) 24.24
FL 24" RCP (W) 24.21
FL 24" RCP (S) 24.04
STM. SWR. MH.
TC=30.13
FL 30" RCP (N) 24.32
FL 30" RCP (S) 24.03
FL 24" RCP (W) 24.94
INLET
TC=30.07
24" RCP (W) 25.22
INLET
TC=30.13
FL 30" RCP
INLET
TC=30.13
FL 18" RCP (N) 25.57
FL 18" RCP (S) 25.61
INLET
TC=30.00
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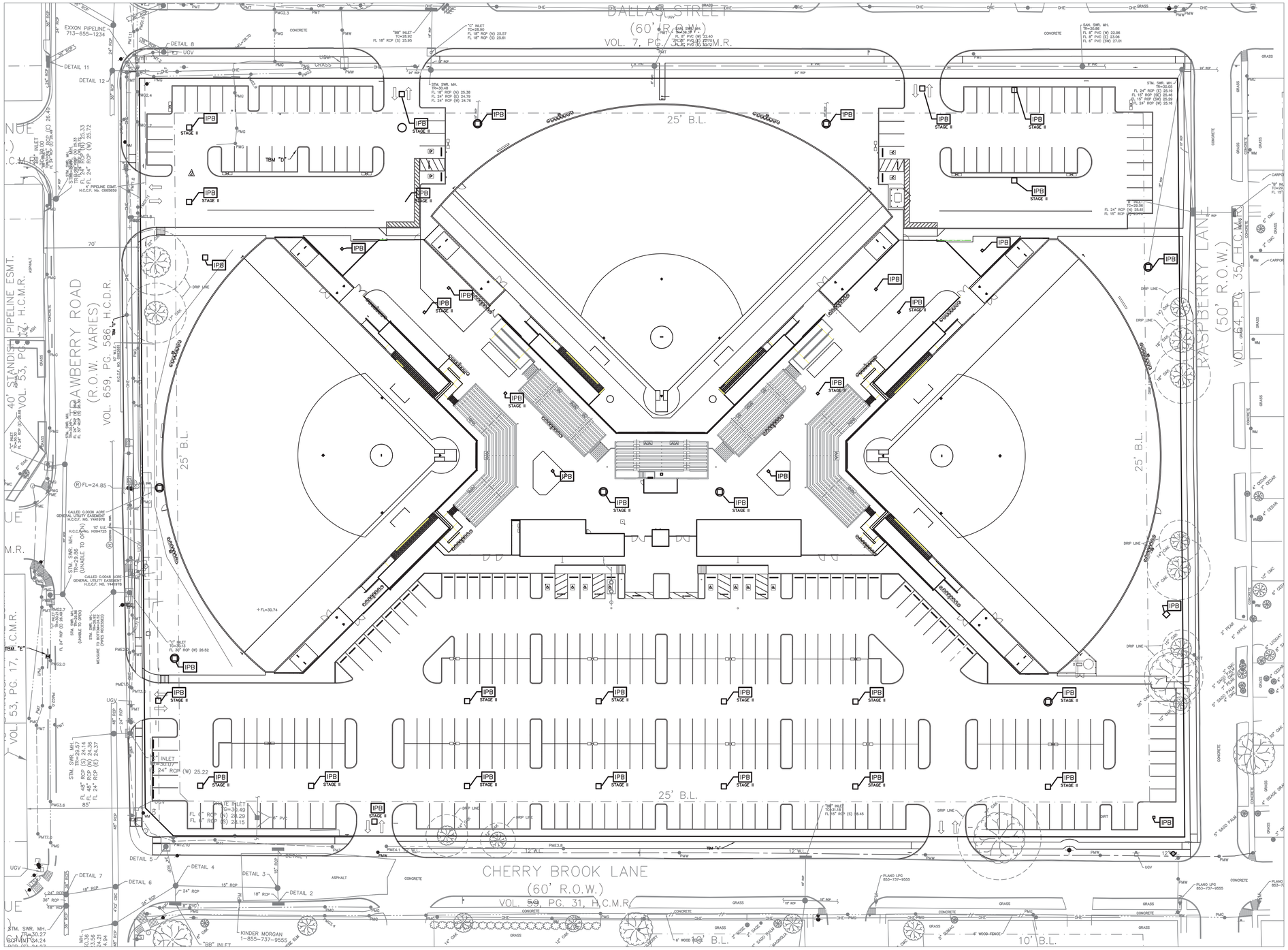
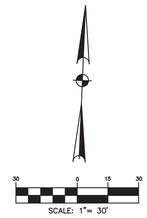
FL 24" RCP (W) 25.72
INLET
TC=30.00
FL 24" RCP (E) 25.33





LEGEND:

- PROPOSED INLET
- FF — PROPOSED FILTER FABRIC FENCE (SILT FENCE)
- SBF — PROPOSED STRAW BALE FENCE
- SC — STABILIZED CONSTRUCTION ACCESS
- IPB — INLET PROTECTION BARRIER
- IPB STAGE II — INLET PROTECTION BARRIER (CURB INLET/INLET IN PAVEMENT)
- CONCRETE WASHOUT PIT

CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION, MAINTENANCE, MODIFICATION AND INSPECTION OF STORM WATER POLLUTION PREVENTION DEVICES AND STRUCTURES TO ENSURE NO SILT OR CONTAMINATED WATER LEAVES THE PROJECT SITE.

SWPPP CONSTRUCTION NOTES

1 CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2 DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA

3 CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.

4 CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5 CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN(14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6 CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

TALON ENGINEERING
CIVIL ENGINEERING & SPORTS DESIGN CONSULTANTS
TEXAS ENGINEERING FIRM F-24281
1118 WOLFS KNOLL
HOUSTON, TX. 77094
(832) 287-0874

STATE OF TEXAS
BRIAN W. REED
128933
LICENSED
PROFESSIONAL ENGINEER

11/10/2025

Revision Schedule

NO.	ISSUE	DATE
1	CONSTRUCTION DOCUMENTS	2025-11-10

Sheet Information

Date	2025-11-10
Job Number	23-012
Drawn	JDK/BWR
Checked	BWR
Approved	BWR

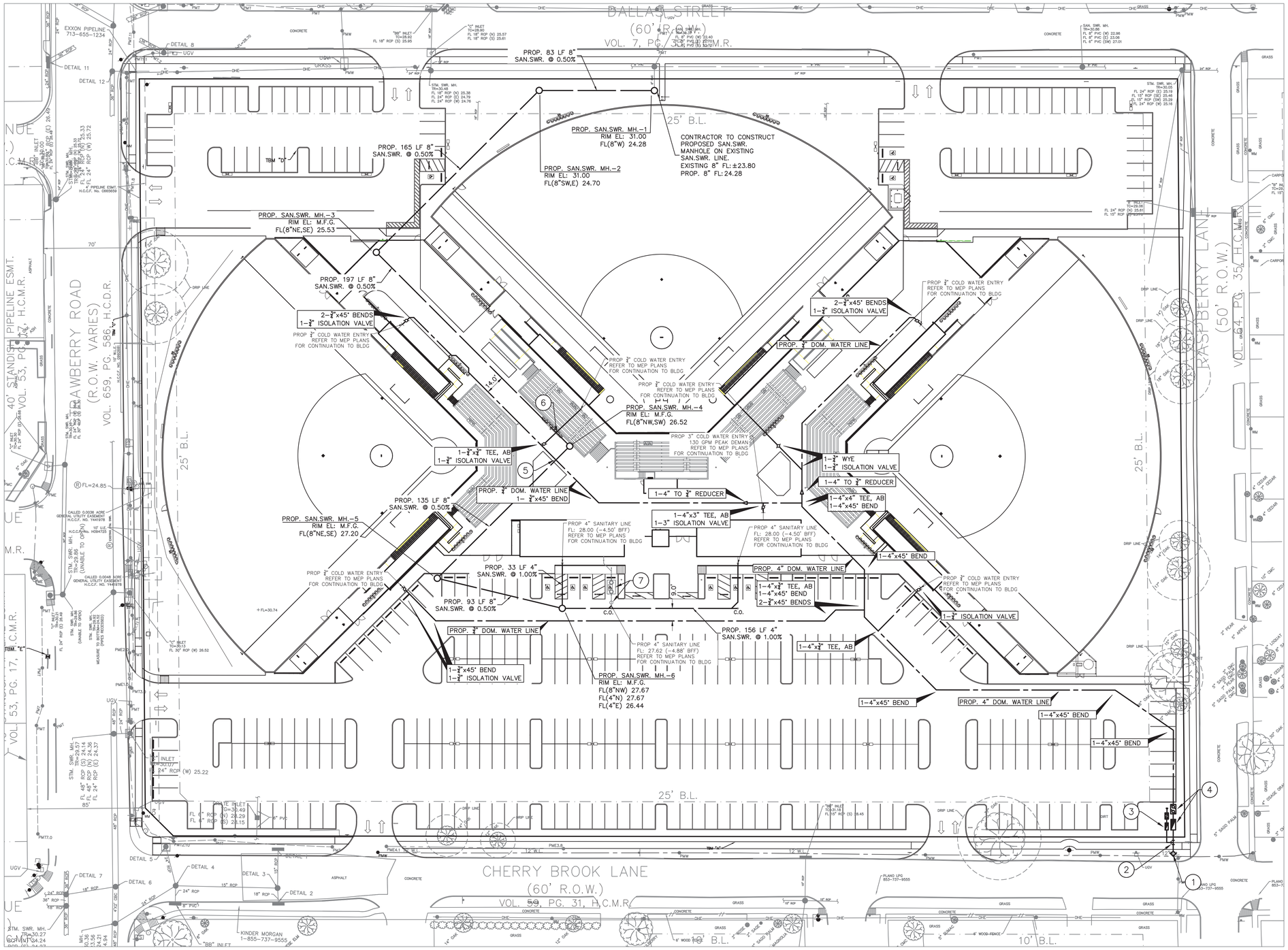
Title

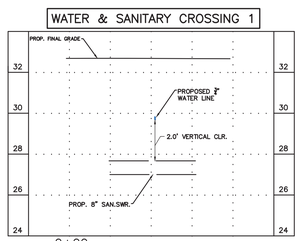
STORMWATER POLLUTION PREVENTION PLAN

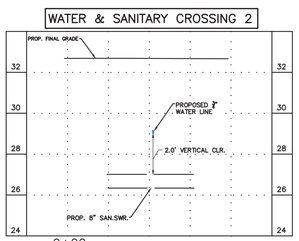
Sheet

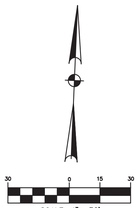
C3.04

90% Construction Document









LEGEND:

- PROPOSED MANHOLE
- C.O. PROPOSED CLEANOUT
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED T.S.&V.
- FL FLOW LINE
- DIRECTION OF FLOW

GENERAL CONTRACTOR (GC) NOTES:

1. CONTRACTOR TO CENTER JOINT OF WATER LINE AT PROPOSED SANITARY SEWER. CONTRACTOR TO MAINTAIN MINIMUM 2' VERTICAL CLEARANCE. ALL SECTIONS OF WASTEWATER MAIN OR LATERAL WITHIN NINE FEET HORIZONTALLY OF THE WATERLINE SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE.
2. CONTRACTOR TO CENTER JOINT OF SANITARY SEWER AT PROPOSED WATER LINE. CONTRACTOR TO MAINTAIN MINIMUM 2' VERTICAL CLEARACE. ALL SECTIONS OF WASTEWATER MAIN OR LATERAL WITHIN NINE FEET HORIZONTALLY OF THE WATERLINE SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE.
3. CONTRACTOR TO INSTALL WATER LINE WITH MINIMUM 4' VERTICAL COVERAGE. IF 4' VERTICAL COVERAGE CANNOT BE MAINTAINED CONTRACTOR TO CONTACT ENGINEER.
4. CONTRACTOR TO INSTALL VAULT TOP 3" AOVE FINISHED GRADE IN AN EFFORT TO ELIMINATE STORM RUNOFF ENTERING VAULT.
5. CONTRACTOR TO INSTALL 12" OF CEMENT STABILIZED SAND UNDER VAULT AND 12" OUTSIDE OUTER EDGE OF VAULT.
6. CONTRACTOR TO PROVIDE ALL FITTINGS TO COMPLETE WATER LINE BENDS AND CONNECTIONS.

KEYED NOTES TO SHEET:

1. PROPOSED 12"x4" TS&V
2. 1-4"x2" TEE FOR IRRIGATION
3. PROPOSED 2" IRRIGATION METER & BACKFLOW PREVENTER
4. PROPOSED 4" DOMESTIC WATER METER & BACKFLOW PREVENTER. SEE DETAIL SHEET C7.04, PARK USA OR NEPTUNE OR APPROVED EQUAL PER P.I.S.D. APPROVAL. BACKFLOW PREVENTER SHALL HAVE WEATHERPROOF ENCLOSURE. WATER METER VAULT SHALL HAVE SUMP DRAIN PIPE THAT WILL CONNECT TO ADJACENT STORM SEWER PIPE SHOWN ON SHEET C3.01.
5. WATER & SANITARY CROSSING 1
6. WATER & SANITARY CROSSING 2
7. PROPOSED GREASE TRAP & SAMPLE WELL REFER TO M.E.P. DRAWINGS

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SITE SANITARY SEWER & WATER LAYOUT

Sheet

C4.01

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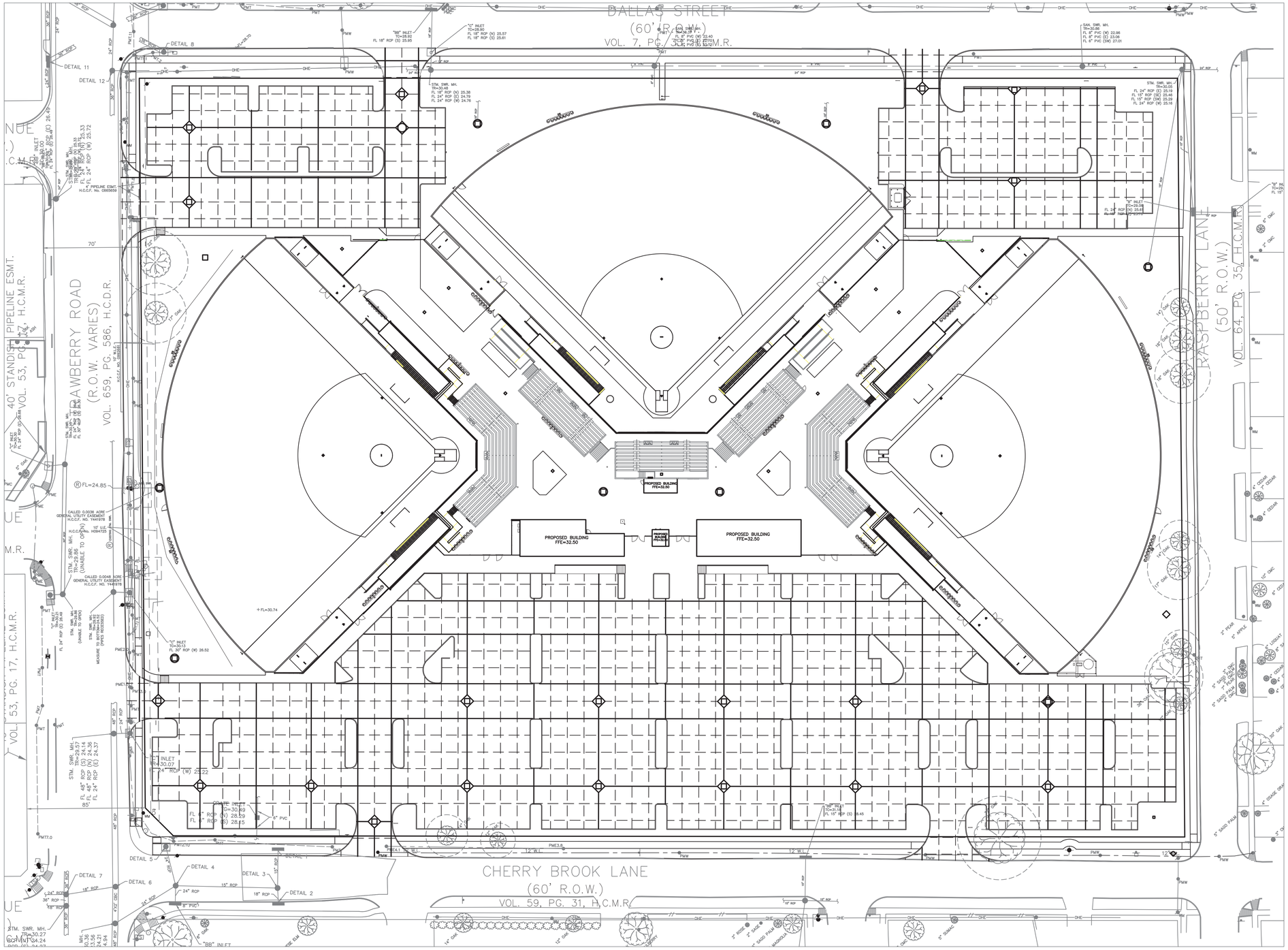
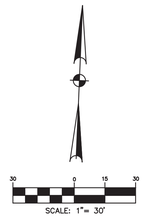




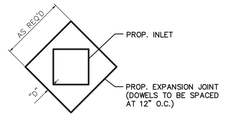
LEGEND:

——— SAWED JOINT

——— EXPANSION JOINT

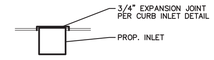
NOTES:

1. LOCATE EXPANSION JOINTS EVENLY SPACED AT 60' MAXIMUM SPACING. SAWED JOINTS SHALL BE SPACED EVENLY BETWEEN EXPANSION JOINTS AT 15' MAXIMUM SPACING.
2. ALL CURBS TO BE 6" UNLESS OTHERWISE NOTED.
3. LINE UP JOINTS IN SIDEWALK W/ JOINTS IN PARKING LOT.
4. INSTALL EXPANSION JOINTS IN ALL DRIVEWAYS AT ROW LINE.
5. SEE ARCHITECT'S PLANS FOR WHEELSTOP LOCATIONS AND SIDEWALK JOINTING.
6. CONTRACTOR TO DRILL 9" INTO EXISTING CONCRETE PAVEMENT AND EMBED 18" LONG #5 BAR (MATCHING EXISTING REBAR SPACING) AND EPOXY IN PLACE LEAVING 9" OF 18" LONG REBAR EXPOSED TO FACILITATE CONNECTION TO PROPOSED PAVEMENT.



D = 24" FOR MANHOLES & GRATE INLETS
D = 12" FOR AREA INLETS & AREA DRAINS

STORM SEWER INLET
W/ EXPANSION JOINT
N.T.S.



CURB INLET
W/ EXPANSION JOINT
N.T.S.

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PAVEMENT
JOINT LAYOUT

Sheet

C5.01

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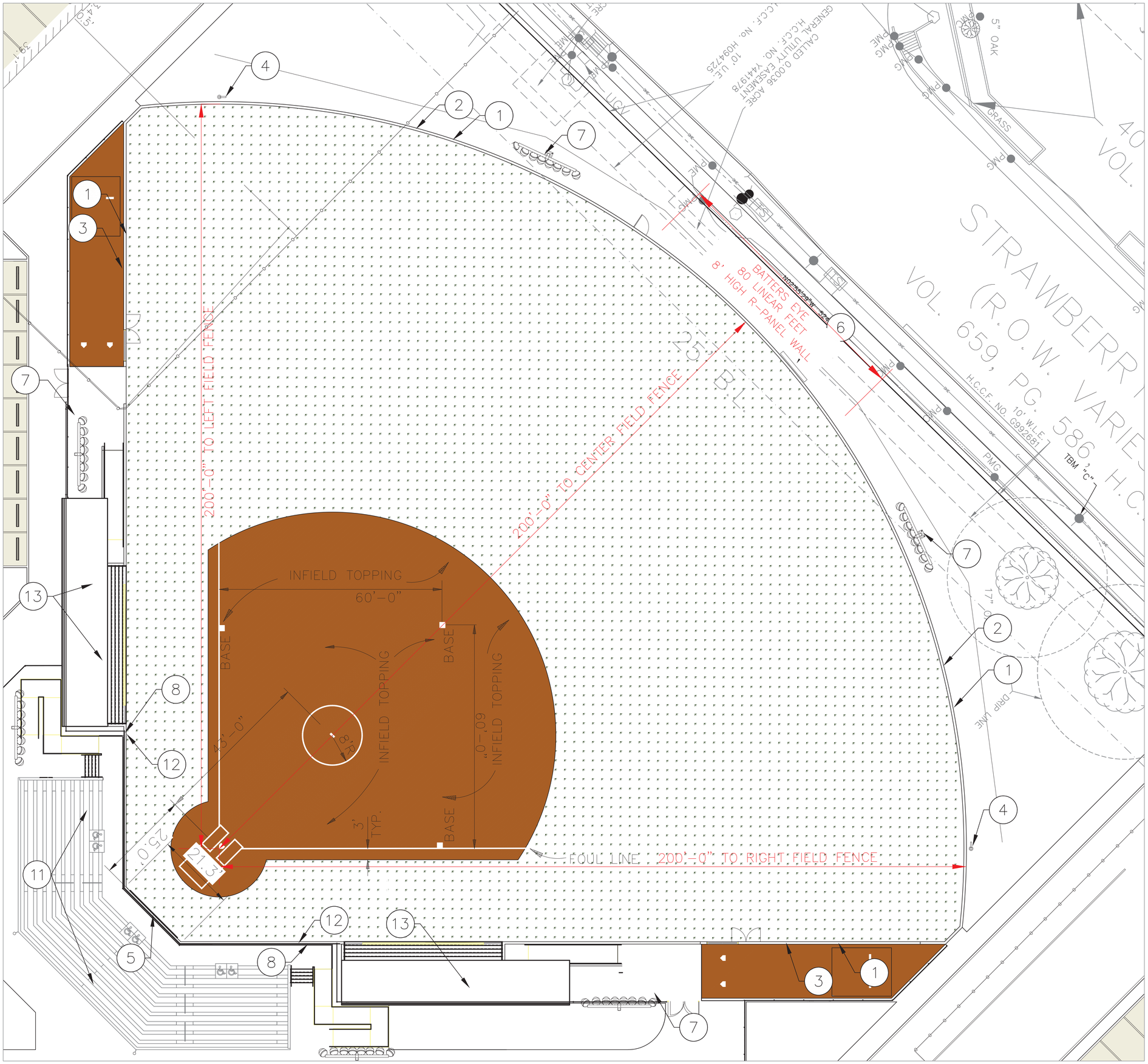

SCALE: 1"= 10'

LEGEND:

NATURAL GRASS PLAYING FIELD
TIFFWAY 419 BERMUDA TURF

SOFTBALL FIELD CLAY SURFACE
MASTERTURF MASTERSEAL INFIELD MIX

KEYED NOTES TO SHEET:

1. EXTERIOR 8"x12" PERIMETER CONTINUOUS CURB FROM DUGOUT TO DUGOUT WITH 2-#4 REBAR CONTINUOUS.
2. 6 FOOT HIGH ATHLETIC WALL FENCE IN OUTFIELD ONLY. REFERENCE ARCHITECTURAL DRAWINGS.
3. 6 FOOT HIGH BLACK VINYL CHAIN LINK FENCE WITH YELLOW SAFETY CAP. THIS IS AT FOUL LINES AND AROUND BULLPENS. REFERENCE ARCHITECTURAL DRAWINGS.
4. FOUL POLE: 4" DIAMETER x 20' IN HEIGHT WITH 18"x12' LONG WING. SEE DETAIL ON SHEET C7.05
5. BACKSTOP WALL. REFERENCE ARCHITECTURAL DRAWINGS.
6. SCOREBOARD. FURNISHED BY OWNER FOR INSTALLATIONS BY CONTRACTOR.
7. PROPOSED STADIUM LIGHTING. REFERENCE ELECTRICAL DRAWINGS.
8. PROPOSED BACKSTOP NETTING & POLE SYSTEM. NETTING TO EXTEND OVER DUGOUTS. REFERENCE ARCHITECTURAL DRAWINGS.
9. PROPOSED 4' WIDE SINGLE GATE. REFERENCE ARCHITECTURAL DRAWINGS.
10. PROPOSED 12' WIDE DOUBLE GATE. REFERENCE ARCHITECTURAL DRAWINGS.
11. PROPOSED BLEACHERS. REFERENCE ARCHITECTURAL DRAWINGS.
12. PROPOSED SAFTEY NETTING SYSTEM. REFER TO ARCHITECTURAL DRAWINGS.
13. PROPOSED DUGOUT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

NOTES: SOFTBALL

1. INFIELD TOPPING ON COMPETITION BASEBALL/SOFTBALL FIELDS SHALL BE 6" DEEP AND SHAPED TO MATCH FINISHED GRADE ELEVATIONS SHOWN ON GRADING PLAN. COMPACT TO MANUFACTURER'S SPECIFICATIONS. ALL NON GRASS AREAS SHALL USE MASTERTURF MASTERSEAL INFIELD MIX.
3. CONTRACTOR SHALL INSTALL BASE INSERTS, HOME PLATE AND PITCHERS RUBBER ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. GRASS AREAS IN SOFTBALL FIELDS WITHIN THE FENCED AREA SHALL BE SHAPED TO FINISHED GRADES WITH 6 INCHES OF SAND ROOT ZONE MATERIAL AND ROLLED SOD (TIFFWAY 419 BERMUDA TURF).

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SOFTBALL FIELD A LAYOUT PLAN

Sheet

C6.01

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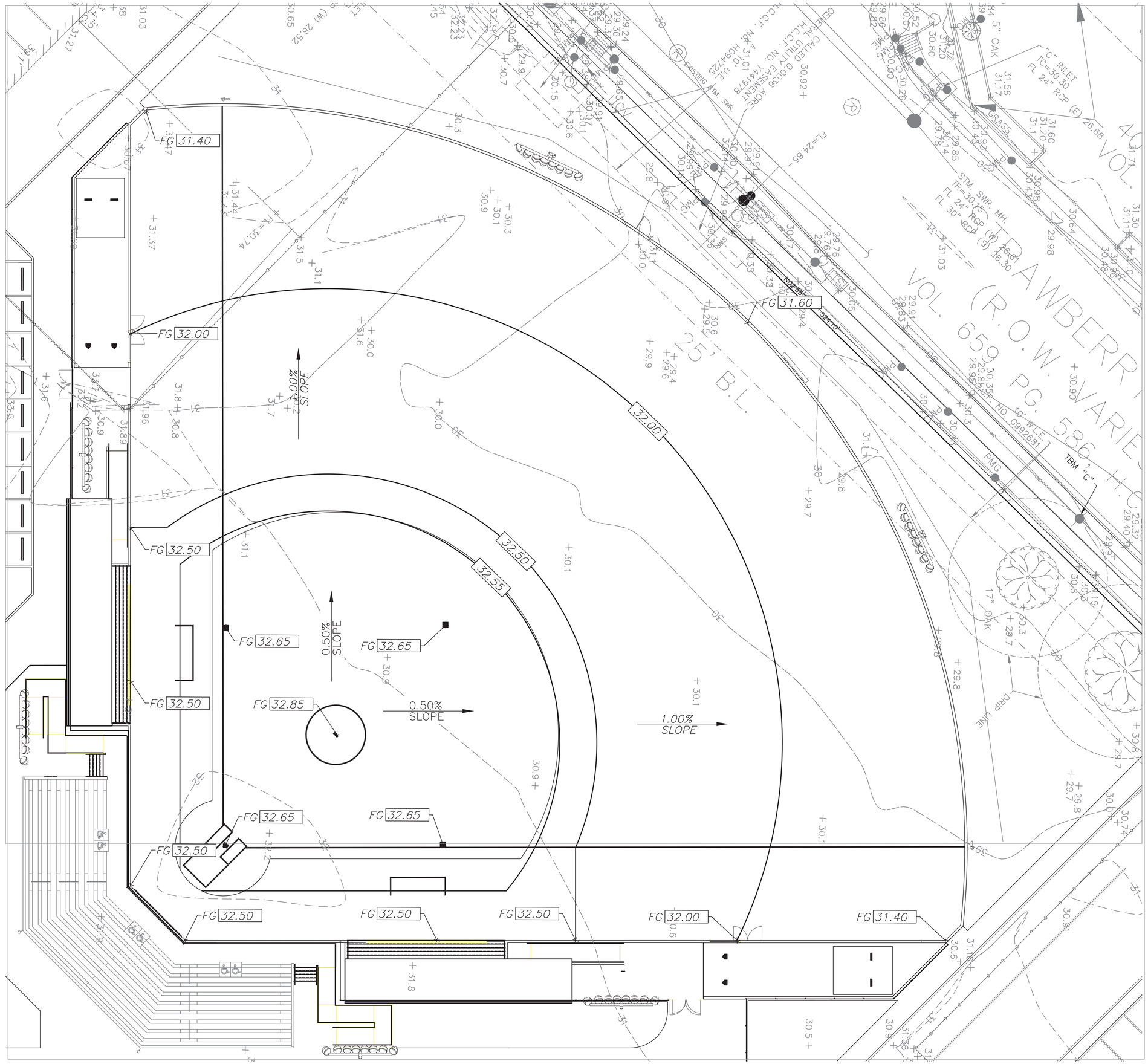

LEGEND:

- PROPOSED GRATE/CURB INLET
- PROPOSED STORM SEWER MANHOLE WITH GRATE TOP
- EXISTING INLET
- FG: 492.00 — PROPOSED FINISHED GRADE ELEV.
- 492.00 — PROPOSED CONTOUR OF FINISHED GRADE

GENERAL NOTES TO GRADING

ALL GRADES & CONTOURS SHOWN ARE FINISHED GRADES

SCALE: 1" = 10'

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SOFTBALL FIELD A GRADING PLAN

Sheet

C6.02

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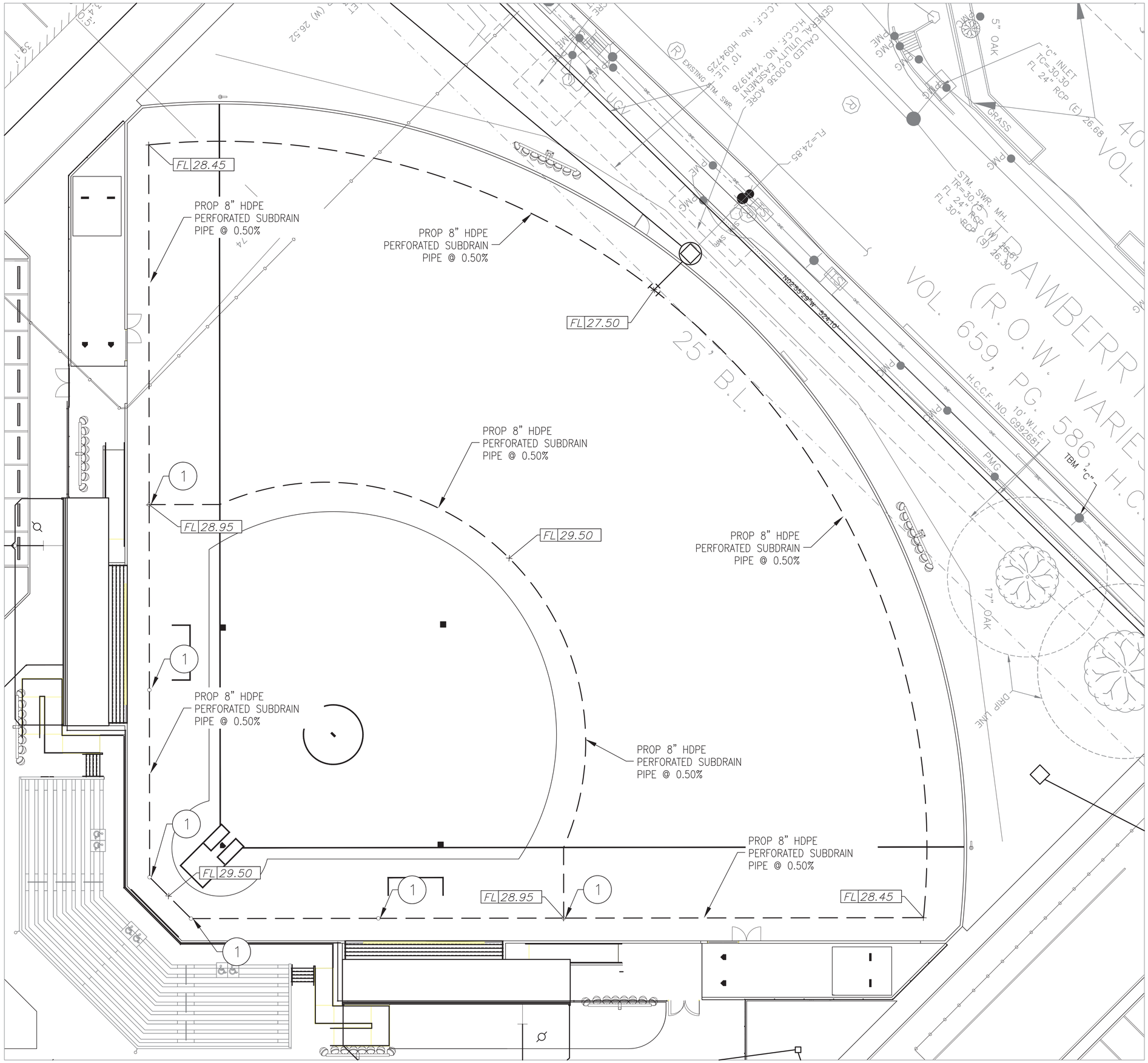

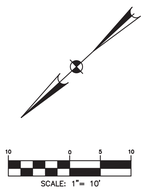

LEGEND:

- FL 420.00 — PROPOSED FLOW LINE ELEVATION
- — — PROPOSED PERFORATED SUBDRAIN PIPE
- ——— PROPOSED STORM SEWER PIPE
- (1) PROPOSED 6" HDPE SUBDRAIN PIPE @ MIN. 0.50%
- (2) PROPOSED 12" HDPE SUBDRAIN PIPE @ MIN. 0.50%
- (3) PROPOSED 12" HDPE STORM PIPE @ MIN. 0.15%

KEYED DRAINAGE NOTES TO SHEET:

(1) PROPOSED INLINE DRAIN. SEE DETAIL SHEET C7.05.

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SOFTBALL FIELD A SUBDRAIN DRAINAGE

Sheet

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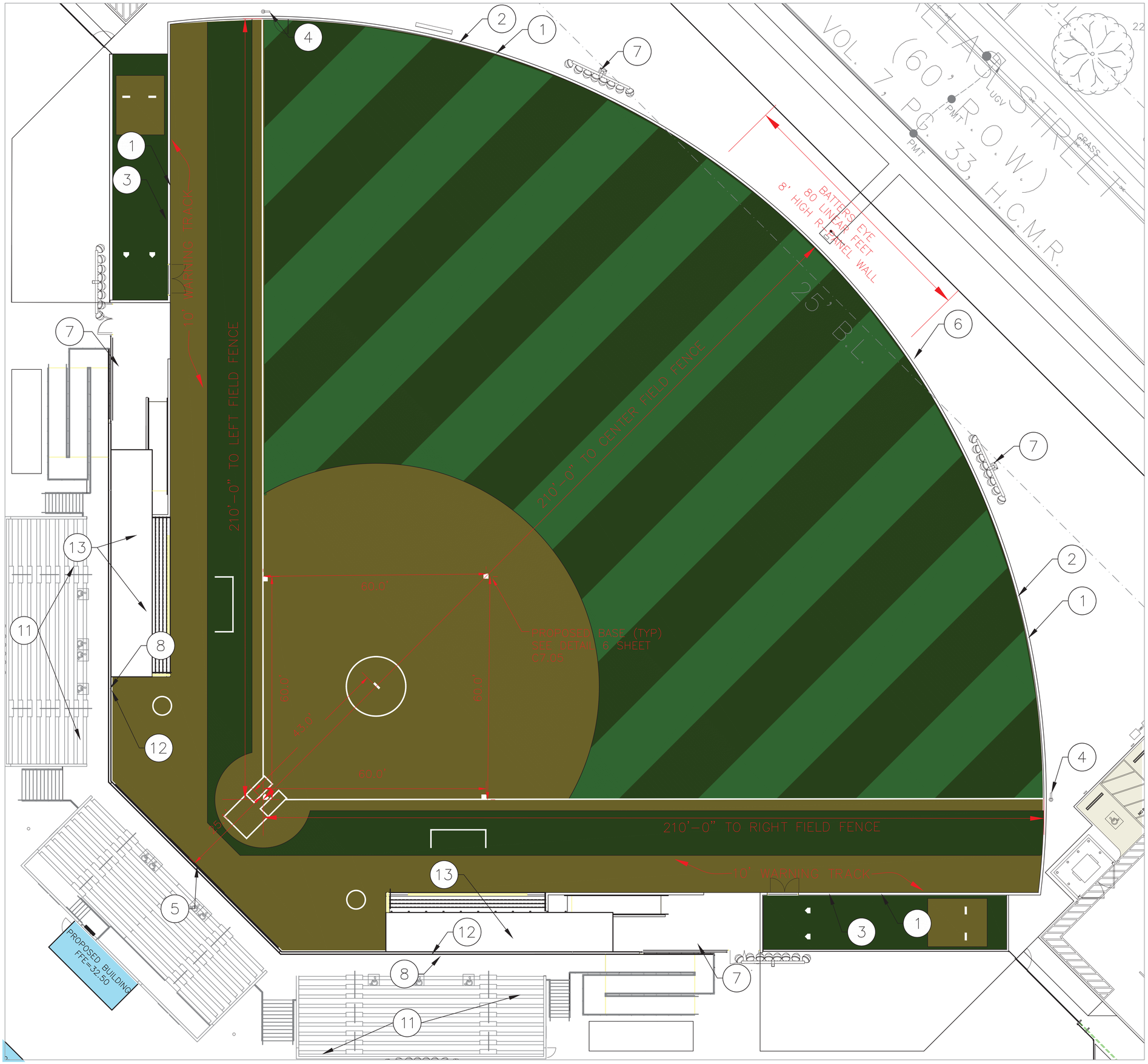

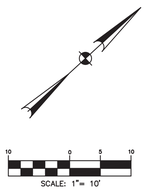

LEGEND:

- SYNTHETIC TURF WITH NATURAL GRASS COLORING AND "MOWED" PATTERN
- SYNTHETIC TURF TO REPLICATE CLAY COLORING AND PLAY

GENERAL NOTE

1. ALL TURF COLOR, HEIGHT, INFILL, LOGOS, & WEIGHT SHALL BE SELECTED UPON APPROVAL.

KEYED NOTES TO SHEET:

1. EXTERIOR 8"x12" PERIMETER CONTINUOUS CURB FROM DUGOUT TO DUGOUT WITH 2-#4 REBAR CONTINUOUS.
2. 6 FOOT HIGH ATHLETIC WALL FENCE IN OUTFIELD ONLY. REFERENCE ARCHITECTURAL DRAWINGS.
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4. FOUL POLE: 4" DIAMETER x 20' IN HEIGHT WITH 18"x12' LONG WING. SEE DETAIL ON SHEET C7.05
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SOFTBALL FIELD B LAYOUT PLAN

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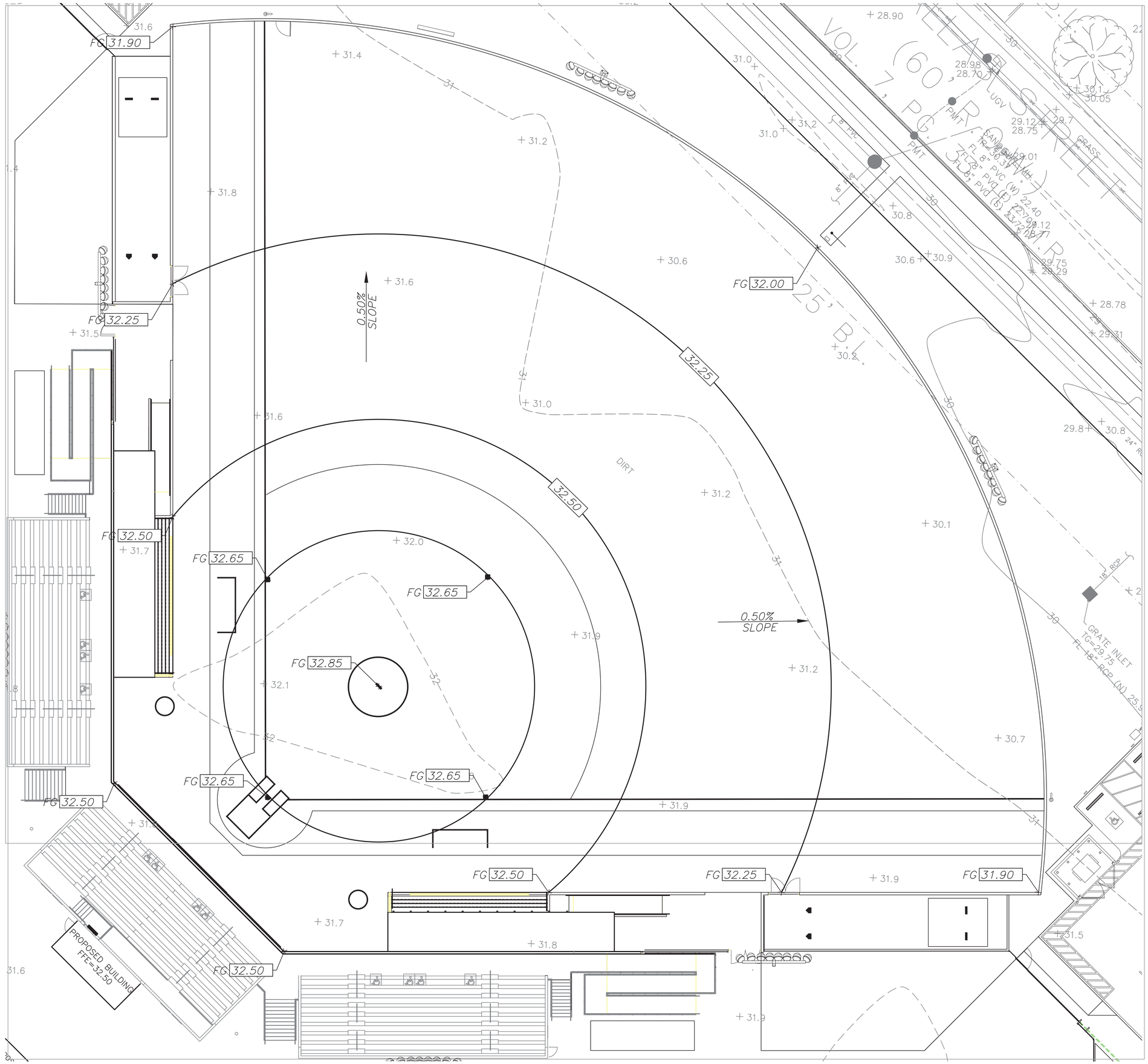

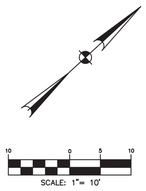

LEGEND:

- PROPOSED GRATE/CURB INLET
- PROPOSED STORM SEWER MANHOLE WITH GRATE TOP
- EXISTING INLET
- FG: 30.00 — PROPOSED FINISHED GRADE ELEV.
- 30.00 — PROPOSED CONTOUR OF FINISHED GRADE

GENERAL NOTES TO GRADING

ALL GRADES & CONTOURS SHOWN ARE FINISHED GRADES TO TOP OF TURF/TOP OF CURB

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SOFTBALL FIELD B GRADING PLAN

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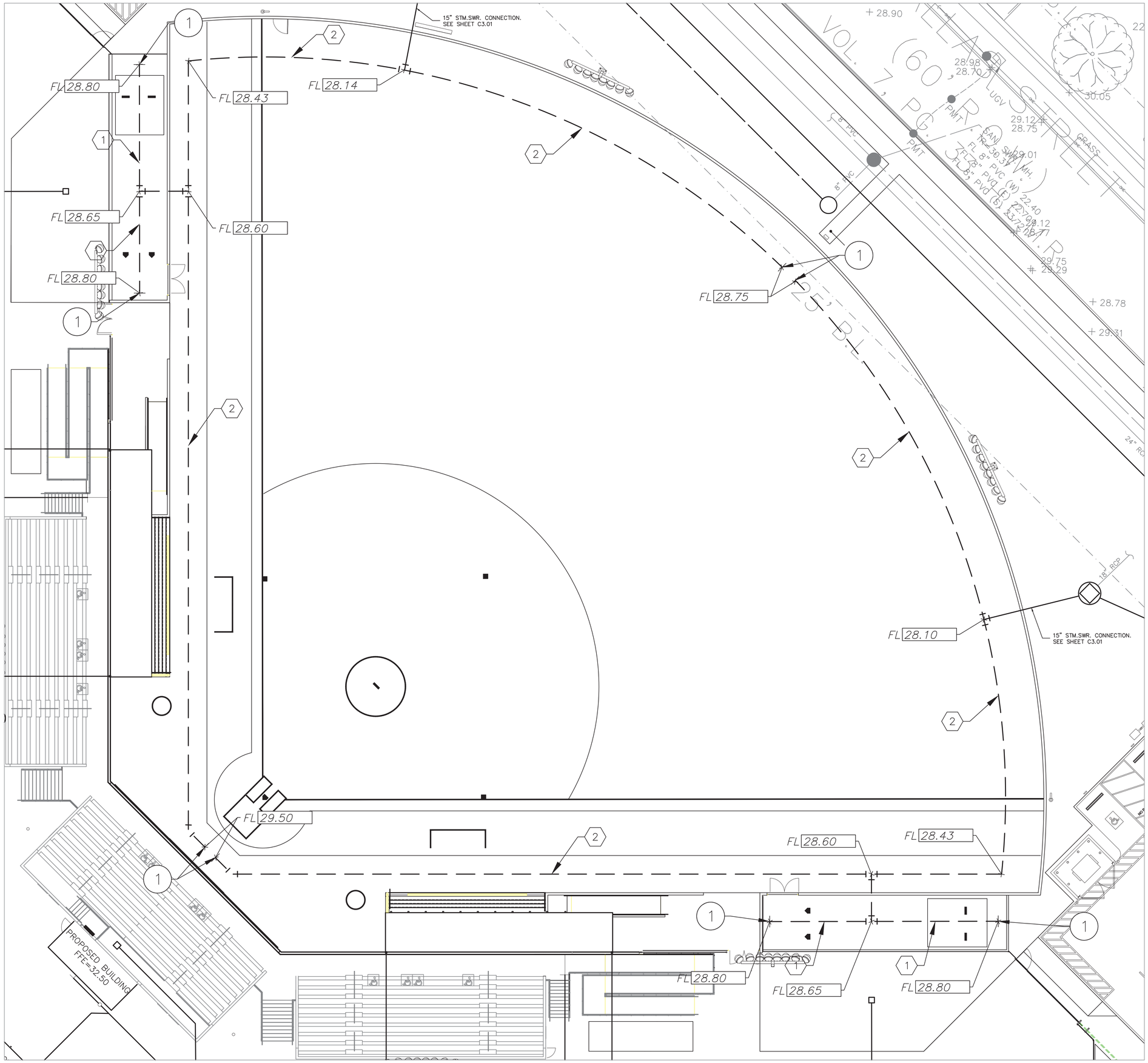

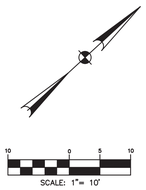

LEGEND:

FL 30.00	PROPOSED FLOW LINE ELEVATION
	PROPOSED PERFORATED SUBDRAIN PIPE
	PROPOSED STORM SEWER PIPE
(1)	PROPOSED 6" HDPE SUBDRAIN PIPE @ MIN. 0.50%
(2)	PROPOSED 12" HDPE SUBDRAIN PIPE @ MIN. 0.50%
(3)	PROPOSED 12" HDPE STORM PIPE @ MIN. 0.15%

GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE ALL EXISTING FIELD NATURAL GRASS AND EXCAVATE SOIL WITHIN PROPOSED SYNTHETIC FIELD TO ELEVATIONS SHOWN ON GRADING PLAN. CONTRACTOR SHALL VERIFY LOCATION OF ANY EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION.
2. AFTER EXCAVATION OF EXISTING SOIL TO THE PROPER ELEVATIONS REQUIRED, THE NEW SUBGRADE WILL BE STABILIZED AND COMPACTED TO 95% MAX. DENSITY (ASTM D-698) WITH A SLOPE AS SHOWN TO ALLOW FOR DRAINAGE.
3. A NEW CONCRETE CURB WILL BE INSTALLED AROUND THE PERIMETER TO PROVIDE A SECURE EDGE FOR FASTENING THE SYNTHETIC TURF.
4. A 30MIL PVC IMPERMEABLE LINER WITH A 10oz. NON WOVEN (C-107NW) GEOTEXTILE WILL BE PLACED OVER THE SUBGRADE AND SECURED TO CURB. PVC LINER WILL HAVE 18 INCH MIN. LAPS AT SEAMS. PVC SEAMS SHALL BE HEAT WELDED. GEOTEXTILE SHALL HAVE 18 INCHES OVER LAPS AT PVC SEAMS.
5. THE SUBDRAINS WILL BE INSTALLED IN THE FIELD WHICH WILL BE CONNECTED TO AN EXISTING STORM SEWER.
6. CLEAN DRAINAGE STONE WILL BE PLACED OVER THE SUBDRAINS AND THE FIELD AND FINE GRADED FOR A FIELD WITH A SLOPE PER SHEET C6.05.
7. SYNTHETIC TURF WILL BE INSTALLED OVER THE DRAINAGE STONE.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR PIPE CONNECTIONS.
9. SUBDRAIN PIPE SHALL BE PERFORATED HDPE PIPE (NO FILTER FABRIC SOCK).

KEYED NOTES TO SHEET:

(1) INSTALL END CAP ON SUBDRAIN PIPE PER ADS DETAIL ON SHEET C7.02 OR APPROVED EQUAL.

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Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

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STATE OF TEXAS
BRIAN W. REED
128933
LICENSED
PROFESSIONAL ENGINEER

11/10/2025

Revision Schedule

NO.	ISSUE	DATE
1	CONSTRUCTION DOCUMENTS	2025-11-10

Sheet Information	
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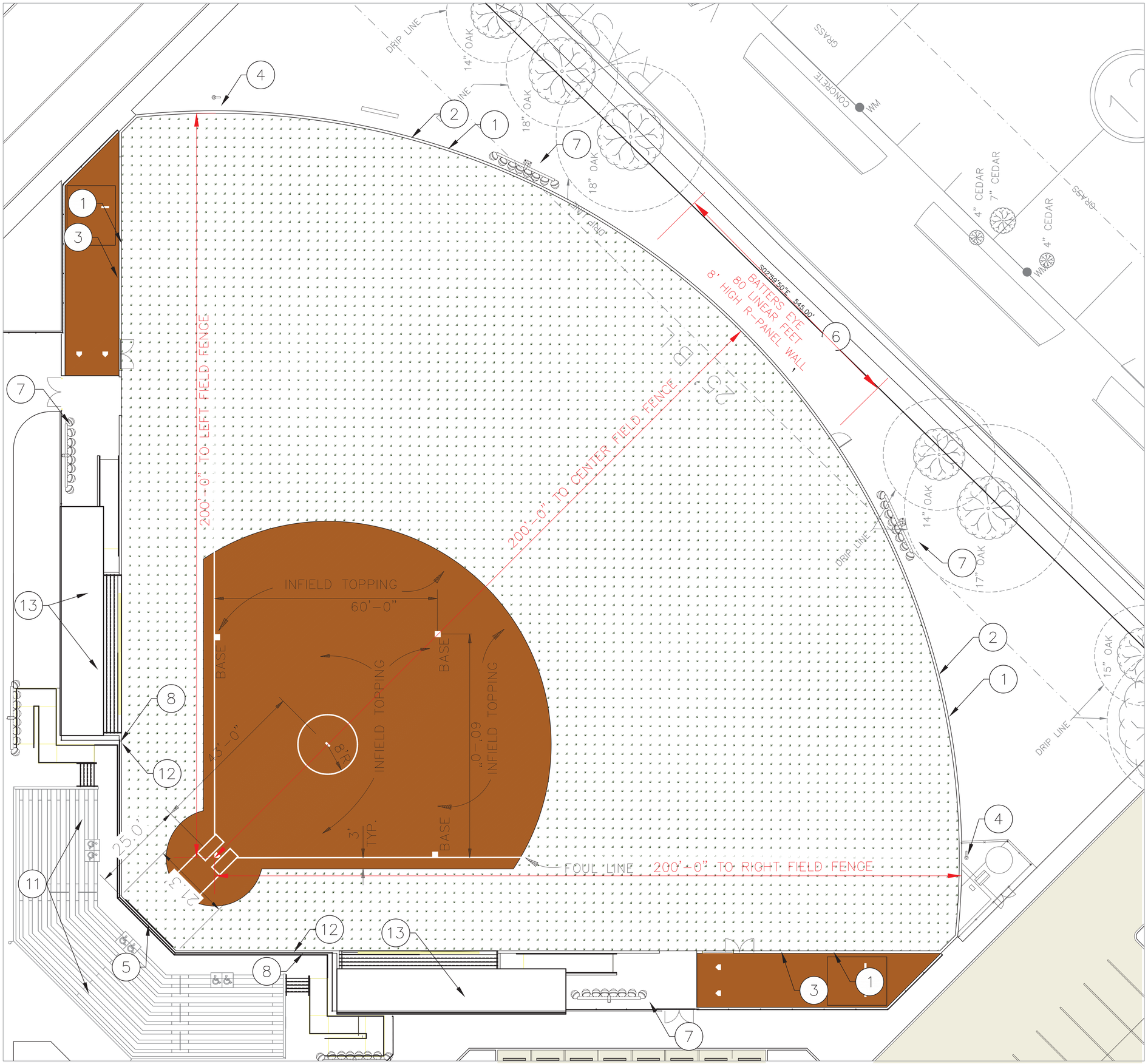
Title

SOFTBALL FIELD B SUBDRAIN DRAINAGE

Sheet

C6.06

90% Construction Document



10 0 5 10

SCALE: 1" = 10'

LEGEND:

NATURAL GRASS PLAYING FIELD
TIFFWAY 419 BERMUDA TURF

SOFTBALL FIELD CLAY SURFACE
MASTERTURF MASTERSEAL INFIELD MIX

KEYED NOTES TO SHEET:

1. EXTERIOR 8"x12" PERIMETER CONTINUOUS CURB FROM DUGOUT TO DUGOUT WITH 2-#4 REBAR CONTINUOUS.
2. 6 FOOT HIGH ATHLETIC WALL FENCE IN OUTFIELD ONLY. REFERENCE ARCHITECTURAL DRAWINGS.
3. 6 FOOT HIGH BLACK VINYL CHAIN LINK FENCE WITH YELLOW SAFETY CAP. THIS IS AT FOUL LINES AND AROUND BULLPENS. REFERENCE ARCHITECTURAL DRAWINGS.
4. FOUL POLE: 4" DIAMETER x 20' IN HEIGHT WITH 18"x12' LONG WING. SEE DETAIL ON SHEET C7.05
5. BACKSTOP WALL. REFERENCE ARCHITECTURAL DRAWINGS.
6. SCOREBOARD. FURNISHED BY OWNER FOR INSTALLATIONS BY CONTRACTOR.
7. PROPOSED STADIUM LIGHTING. REFERENCE ELECTRICAL DRAWINGS.
8. PROPOSED BACKSTOP NETTING & POLE SYSTEM. NETTING TO EXTEND OVER DUGOUTS. REFERENCE ARCHITECTURAL DRAWINGS.
9. PROPOSED 4' WIDE SINGLE GATE. REFERENCE ARCHITECTURAL DRAWINGS.
10. PROPOSED 12' WIDE DOUBLE GATE. REFERENCE ARCHITECTURAL DRAWINGS.
11. PROPOSED BLEACHERS. REFERENCE ARCHITECTURAL DRAWINGS.
12. PROPOSED SAFTEY NETTING SYSTEM. REFER TO ARCHITECTURAL DRAWINGS.
13. PROPOSED DUGOUT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

NOTES: SOFTBALL

1. INFIELD TOPPING ON COMPETITION BASEBALL/SOFTBALL FIELDS SHALL BE 6" DEEP AND SHAPED TO MATCH FINISHED GRADE ELEVATIONS SHOWN ON GRADING PLAN. COMPACT TO MANUFACTURER'S SPECIFICATIONS. ALL NON GRASS AREAS SHALL USE MASTERTURF MASTERSEAL INFIELD MIX.
3. CONTRACTOR SHALL INSTALL BASE INSERTS, HOME PLATE AND PITCHERS RUBBER ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. GRASS AREAS IN SOFTBALL FIELDS WITHIN THE FENCED AREA SHALL BE SHAPED TO FINISHED GRADES WITH 6 INCHES OF SAND ROOT ZONE MATERIAL AND ROLLED SOD (TIFFWAY 419 BERMUDA TURF).

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SOFTBALL FIELD C LAYOUT PLAN

Sheet

C6.07

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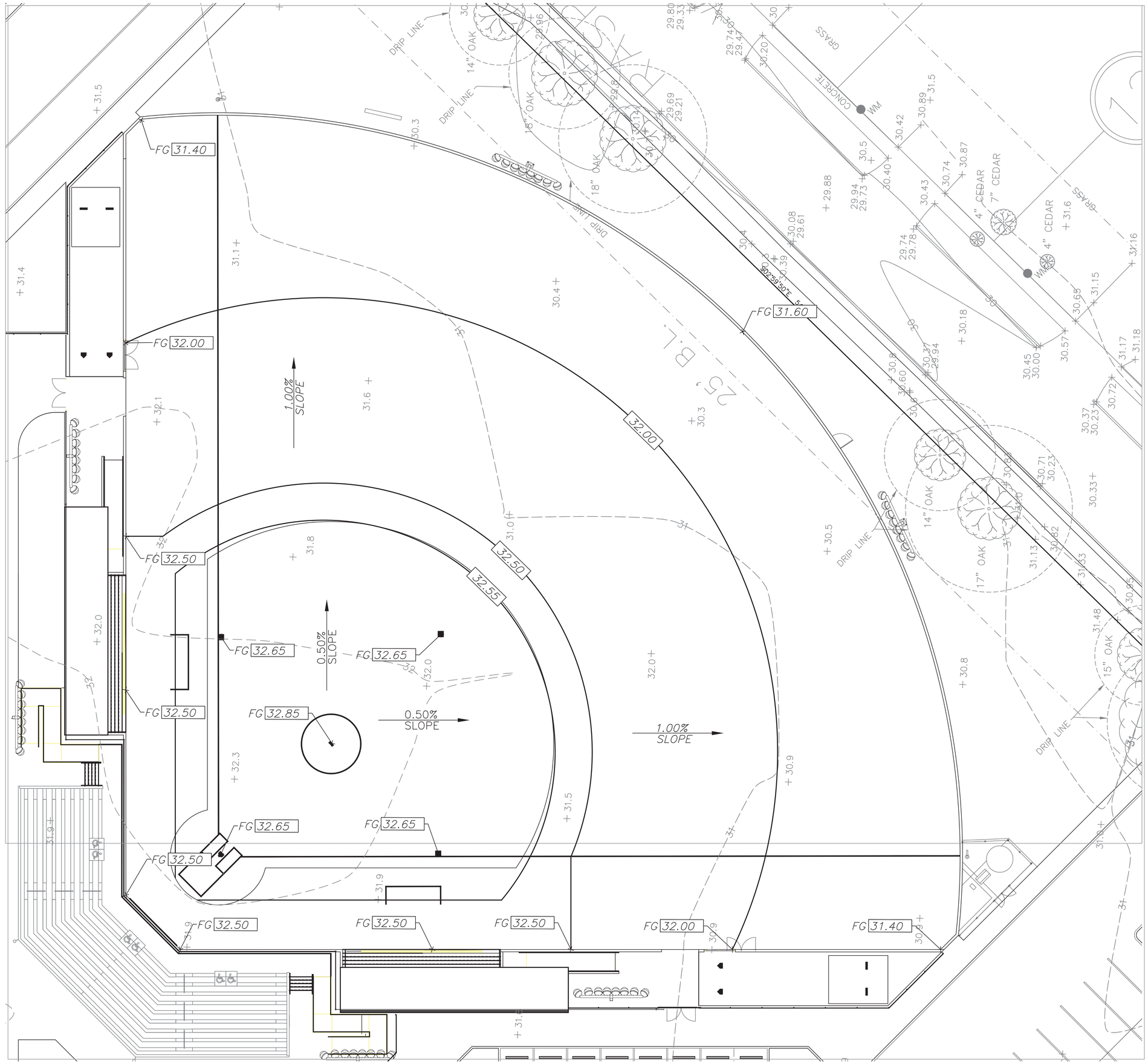

SCALE: 1"= 10'

LEGEND:

- PROPOSED GRATE/CURB INLET
- PROPOSED STORM SEWER MANHOLE WITH GRATE TOP
- EXISTING INLET
- FG: 492.00 PROPOSED FINISHED GRADE ELEV.
- 492.00 PROPOSED CONTOUR OF FINISHED GRADE

GENERAL NOTES TO GRADING

ALL GRADES & CONTOURS SHOWN ARE FINISHED GRADES

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SOFTBALL FIELD C GRADING PLAN

Sheet

C6.08

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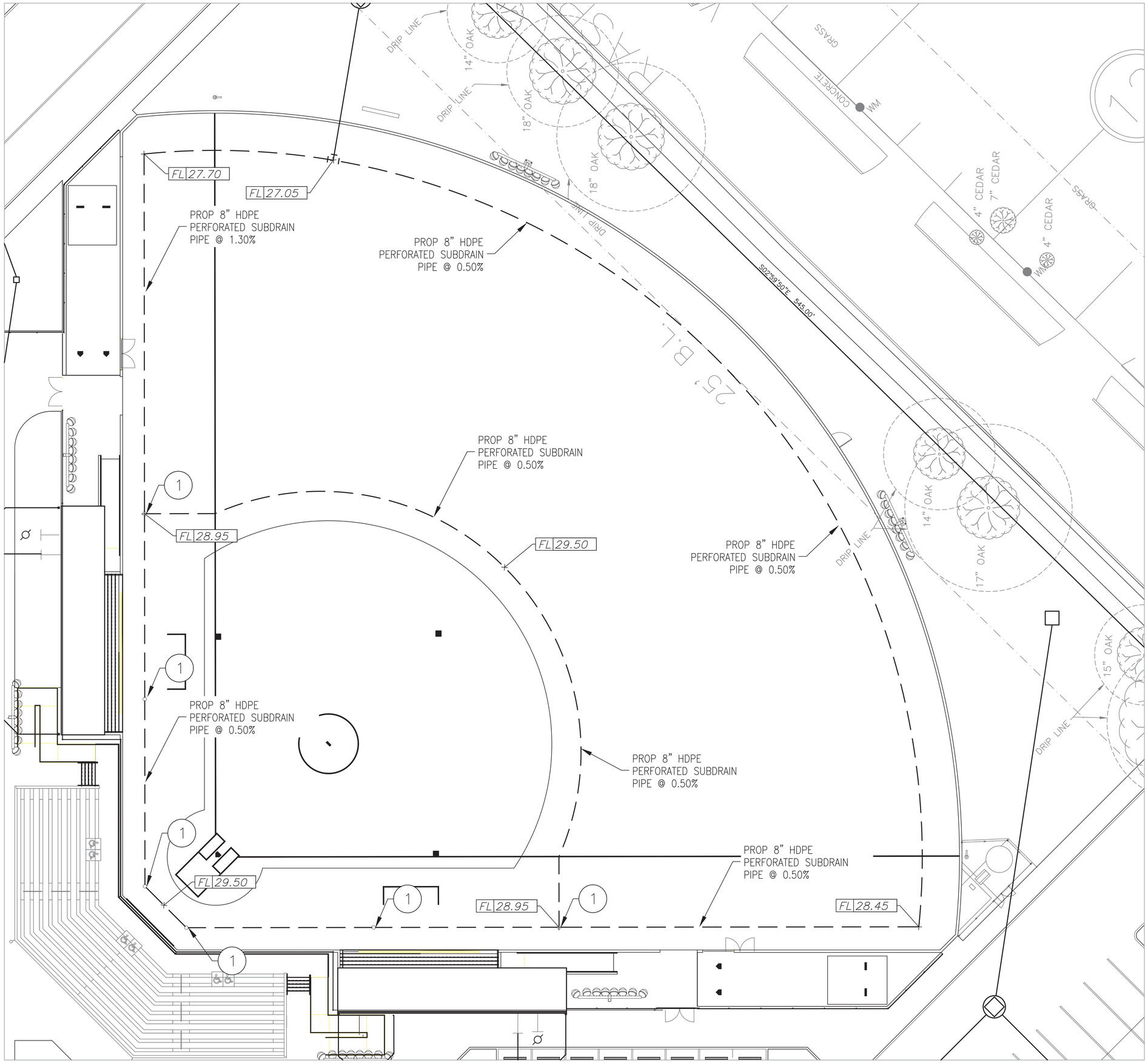

10 0 5 10
SCALE: 1"= 10'

LEGEND:

- FL 420.00 — PROPOSED FLOW LINE ELEVATION
- — — PROPOSED PERFORATED SUBDRAIN PIPE
- ——— PROPOSED STORM SEWER PIPE
- (1) PROPOSED 6" HDPE SUBDRAIN PIPE @ MIN. 0.50%
- (2) PROPOSED 12" HDPE SUBDRAIN PIPE @ MIN. 0.50%
- (3) PROPOSED 12" HDPE STORM PIPE @ MIN. 0.15%

KEYED DRAINAGE NOTES TO SHEET:

(1) PROPOSED INLINE DRAIN. SEE DETAIL SHEET C7.05.

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SOFTBALL FIELD C SUBDRAIN DRAINAGE

Sheet

C6.09

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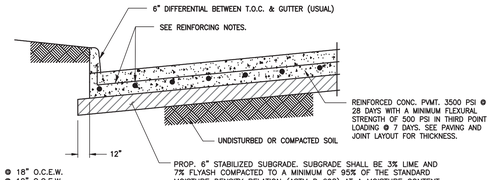


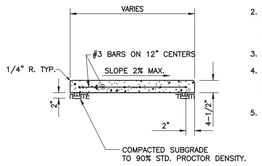
FOR CONCRETE REINFORCEMENT

- 5" CONCRETE – #3 BARS @ 18" O.C.E.W.
- 6" CONCRETE – #4 BARS @ 12" O.C.E.W.
- 7" CONCRETE – #4 BARS @ 12" O.C.E.W.
- ENTRANT CORNERS – 3 (THREE) #3 DIAGONAL OR CORNER BARS

NOTE: WHERE A DISCREPANCY EXISTS BETWEEN THE ENGINEER'S PLANS AND THE GEOTECHNICAL REPORT, THE GEOTECHNICAL REPORT SHALL GOVERN.

TYPICAL CONCRETE PAVEMENT

N.T.S.

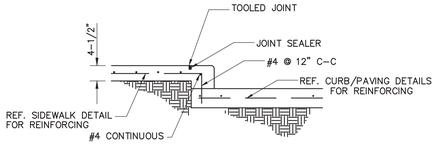


NOTES:

1. 1/2" FIBERBOARD EXPANSION MATERIAL REQUIRED WHERE SIDEWALK ABUTS BUILDING. 3/4" REDWOOD MATERIAL REQUIRED WHERE SIDEWALK ABUTS CURBS, DRIVEWAYS OR EXISTING SIDEWALKS.
2. WHERE NEW SIDEWALK IS PLACED AGAINST EXISTING SIDEWALK, SAWCUT EXISTING SIDEWALK TO AN EVEN STRAIGHT LINE PRIOR TO INSTALLATION OF THE NEW SIDEWALK AND INSTALL EXPANSION JOINT.
3. 1" MAX AGGREGATE.
4. CONTRACTOR SHALL INSTALL SIDEWALK EXPANSION JOINTS AT 20' MAX. INTERVALS AND CONSTRUCTION (SAWED JOINTS) ON 5' CENTERS FOR 5' WIDE SIDEWALKS AND 10' FOR ALL OTHER SIDEWALKS WIDER THAN 5'.
5. LINE UP JOINTS IN SIDEWALK W/ PAVING JOINTS.

TYPICAL CONCRETE SIDEWALK

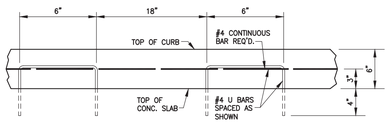
N.T.S.



SIDEWALK SHALL BE DOWELED INTO CURB WITH #4 REBAR @ 12" C-C

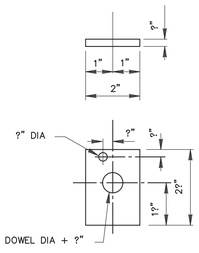
SIDEWALK AT PAVEMENT

N.T.S.



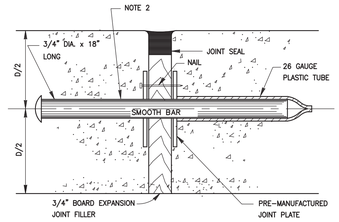
TYPICAL CONCRETE CURB REINFORCING

N.T.S.



DOWEL FITTING

N.T.S.

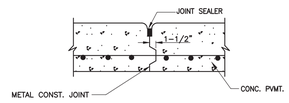


NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12" CENTERS
2. CENTER DOWEL HORIZONTALLY ON JOINT
3. CENTER DOWEL VERTICALLY IN CONCRETE BASE.

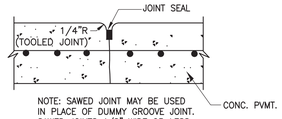
DOWEL TYPE EXPANSION JOINT

N.T.S.



KEYED CONSTRUCTION JOINT WITH TIE BARS

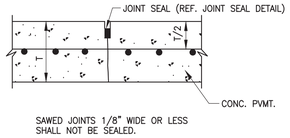
N.T.S.



NOTE: SAWED JOINT MAY BE USED IN PLACE OF DUMMY GROOVE JOINT. SAWED JOINTS 1/8" WIDE OR LESS SHALL NOT BE SEALED

DUMMY GROOVE JOINT

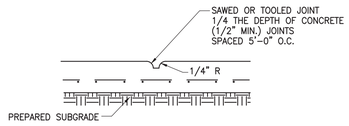
N.T.S.



SAWED JOINTS 1/8" WIDE OR LESS SHALL NOT BE SEALED.

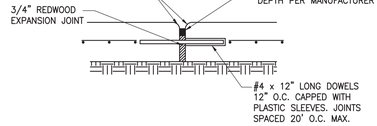
SAWED JOINT

N.T.S.



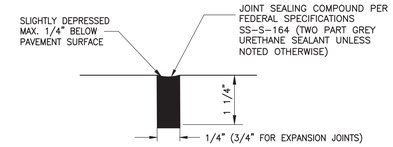
CONCRETE SIDEWALK CONTROL JOINT

N.T.S.



CONCRETE SIDEWALK EXPANSION JOINT

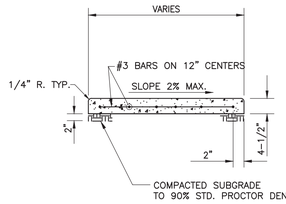
N.T.S.



JOINT SEAL

N.T.S.

NOTE:
WHERE THE DEPTH DOES NOT PERMIT THE USE OF BACKER ROD, A BOND BREAKER (POLYETHYLENE STRIP) MUST BE USED TO PREVENT THREE-POINT BONDING

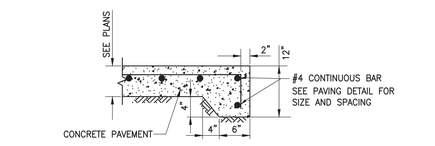


NOTES:

1. 1/2" FIBERBOARD EXPANSION MATERIAL REQUIRED WHERE SIDEWALK ABUTS BUILDING. 3/4" REDWOOD MATERIAL REQUIRED WHERE SIDEWALK ABUTS CURBS, DRIVEWAYS OR EXISTING SIDEWALKS.
2. WHERE NEW SIDEWALK IS PLACED AGAINST EXISTING SIDEWALK, SAWCUT EXISTING SIDEWALK TO AN EVEN STRAIGHT LINE PRIOR TO INSTALLATION OF THE NEW SIDEWALK AND INSTALL EXPANSION JOINT.
3. 1" MAX AGGREGATE.
4. CONTRACTOR SHALL INSTALL SIDEWALK EXPANSION JOINTS AT 20' MAX. INTERVALS AND CONSTRUCTION (SAWED JOINTS) ON 5' CENTERS FOR 5' WIDE SIDEWALKS AND 10' FOR ALL OTHER SIDEWALKS WIDER THAN 5'.
5. LINE UP JOINTS IN SIDEWALK W/ PAVING JOINTS.

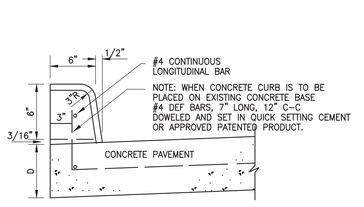
TYPICAL CONCRETE SIDEWALK

N.T.S.



STANDARD CONCRETE PAVING HEADER

N.T.S.



NOTE: WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING CONCRETE BASE #4 DEF BARS, 7' LONG, 12" C-C DOWELED AND SET IN QUICK SETTING CEMENT OR APPROVED PATENTED PRODUCT.

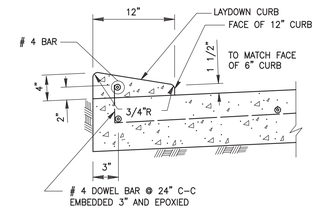
#4 CONTINUOUS LONGITUDINAL BAR

NOTES:

1. MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB SHALL HAVE THE SAME OUTSIDE DIMENSIONS.
2. PROP. VERTICAL JOINT IN CURB TO BE SEALED WITH VERTICAL SEALANT MATCHING COLOR OF JOINT SEALANT IN PAVEMENT.

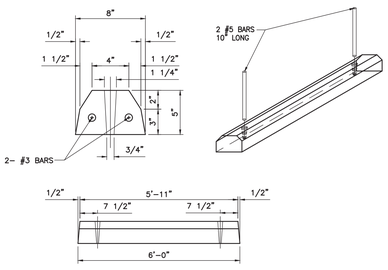
CONCRETE CURB

N.T.S.



4-INCH x 12-INCH LAYDOWN CURB

N.T.S.



PRECAST CONCRETE WHEEL STOP

NTS

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PAVING DETAILS

Sheet

C7.01

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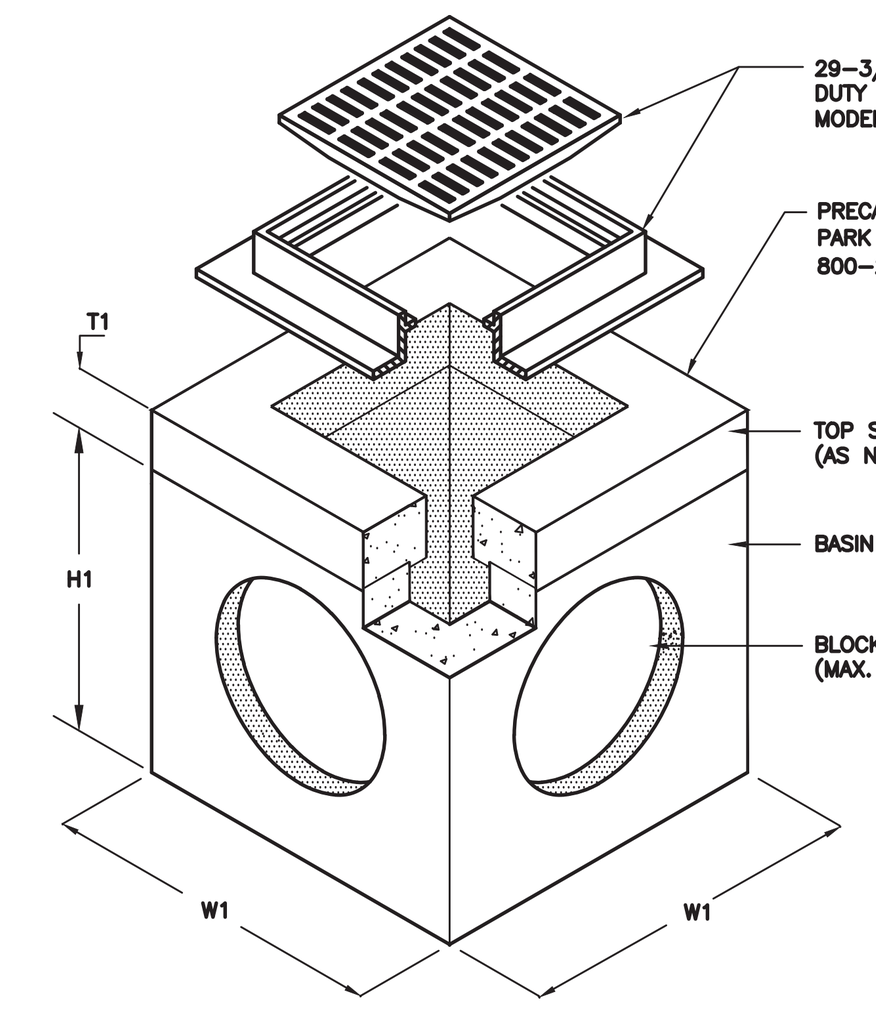


ISOMETRIC

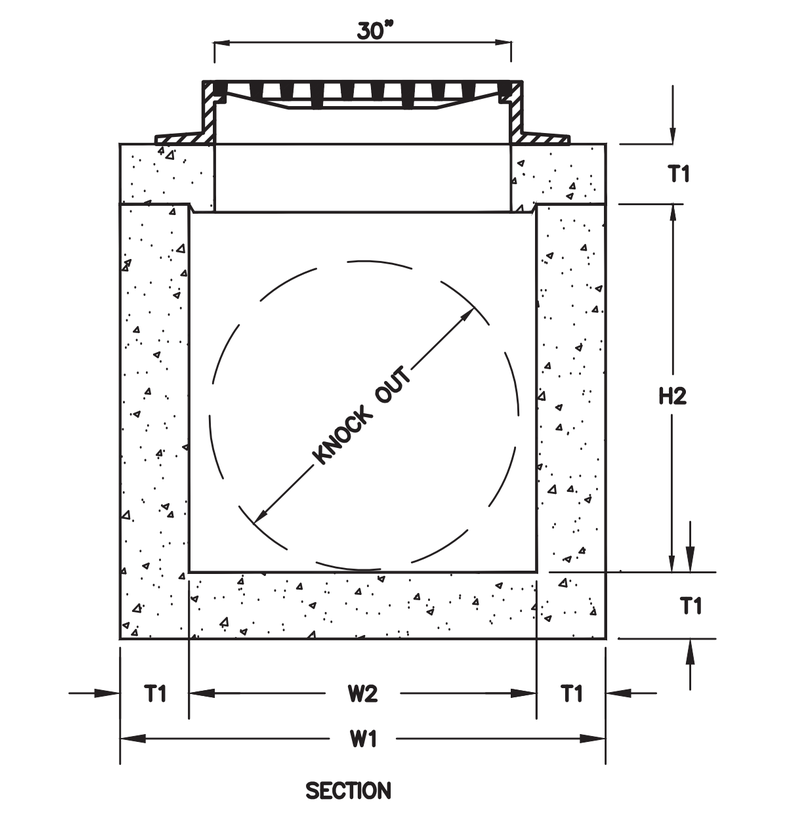
DIMENSIONS						
W1	W2	H1	H2	T1	K.O.	GRATE SIZE
42"	30"	36"	30"	6"	30"	30"X30"
48"	36"	42"	36"	6"	36"	30"X30"
60"	48"	54"	48"	6"	48"	30"X30"
72"	60"	66"	60"	6"	60"	30"X30"
84"	72"	78"	72"	6"	72"	30"X30"
96"	83"	78"	72"	6"	84"	30"X30"

SPECIFICATIONS

CONCRETE : Class II concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.

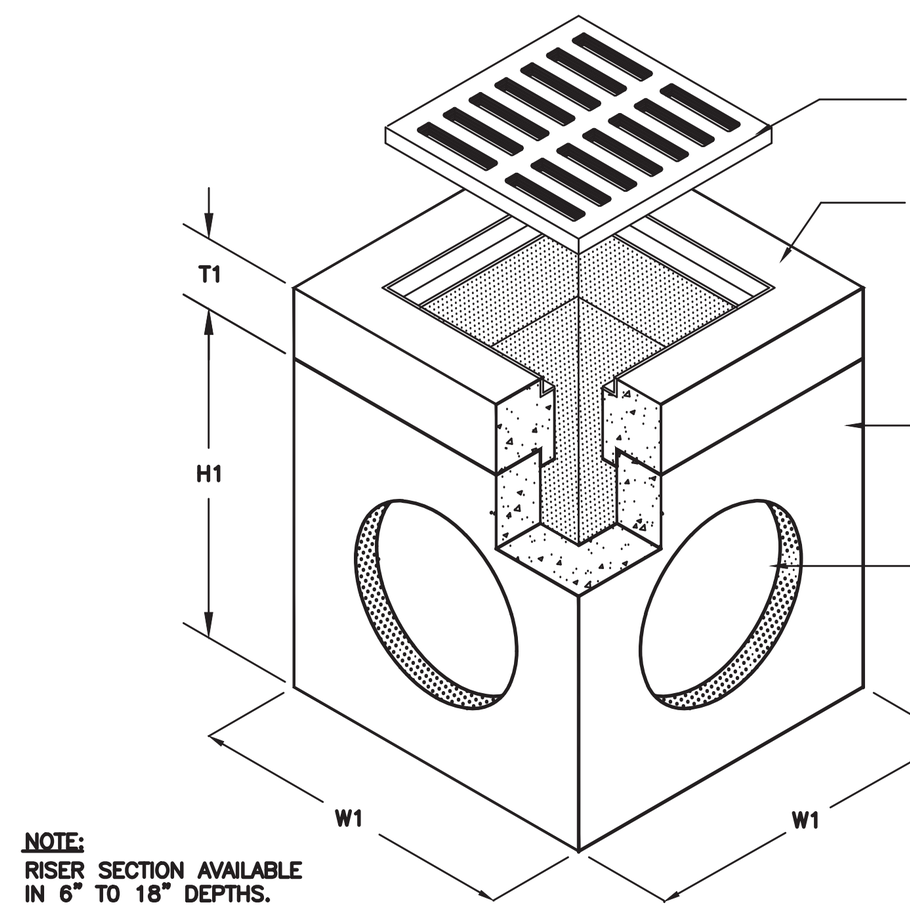
REINFORCEMENT: Grade 60 reinforced with steel rebar to conform to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.



SECTION

GRATE INLET IN PAVEMENT
N.T.S.



NOTE:
RISER SECTION AVAILABLE IN 6" TO 18" DEPTHS.

DIMENSIONS						
W1	W2	H1	H2	T1	KO	GRATE SIZE[1]
24"	16"	34"	30"	4"	15"	18"x18"x1-1/2"
26"	18"	34"	30"	4"	17"	20"x20"x1-1/2"
32"	22"	41"	36"	5"	22"	24"x24"x2"
37"	25"	42"	36"	6"	24"	27"x27"x2"
42"	30"	42"	36"	6"	30"	32"x32"x2"
48"	36"	42"	36"	6"	32"	38"x38"x2"
60"	48"	54"	48"	6"	48"	38"x38"x2"
72"	60"	66"	60"	6"	60"	38"x38"x2"
84"	72"	78"	72"	6"	72"	38"x38"x2"
96"	83"	78"	72"	6"	84"	38"x38"x2"

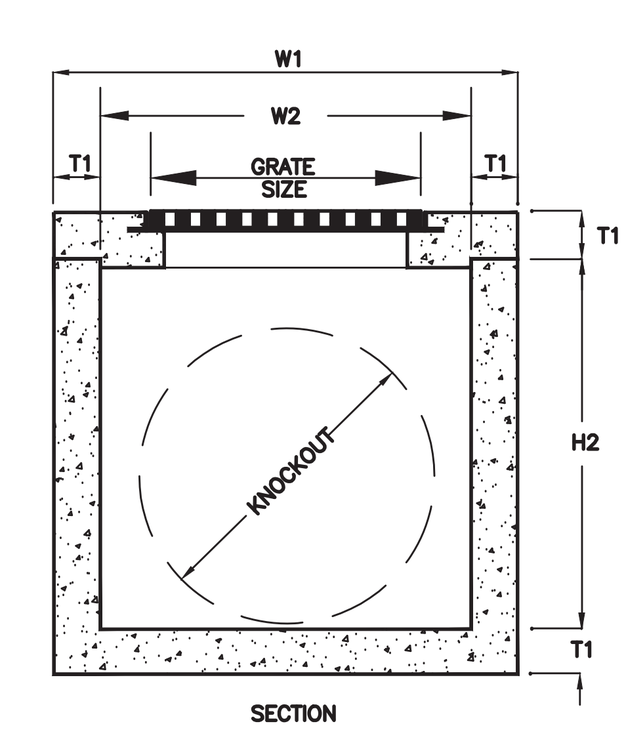
1. LARGER GRATES SIZES ARE AVAILABLE.

SPECIFICATIONS

CONCRETE : Class 1 concrete with design strength of 4,500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.

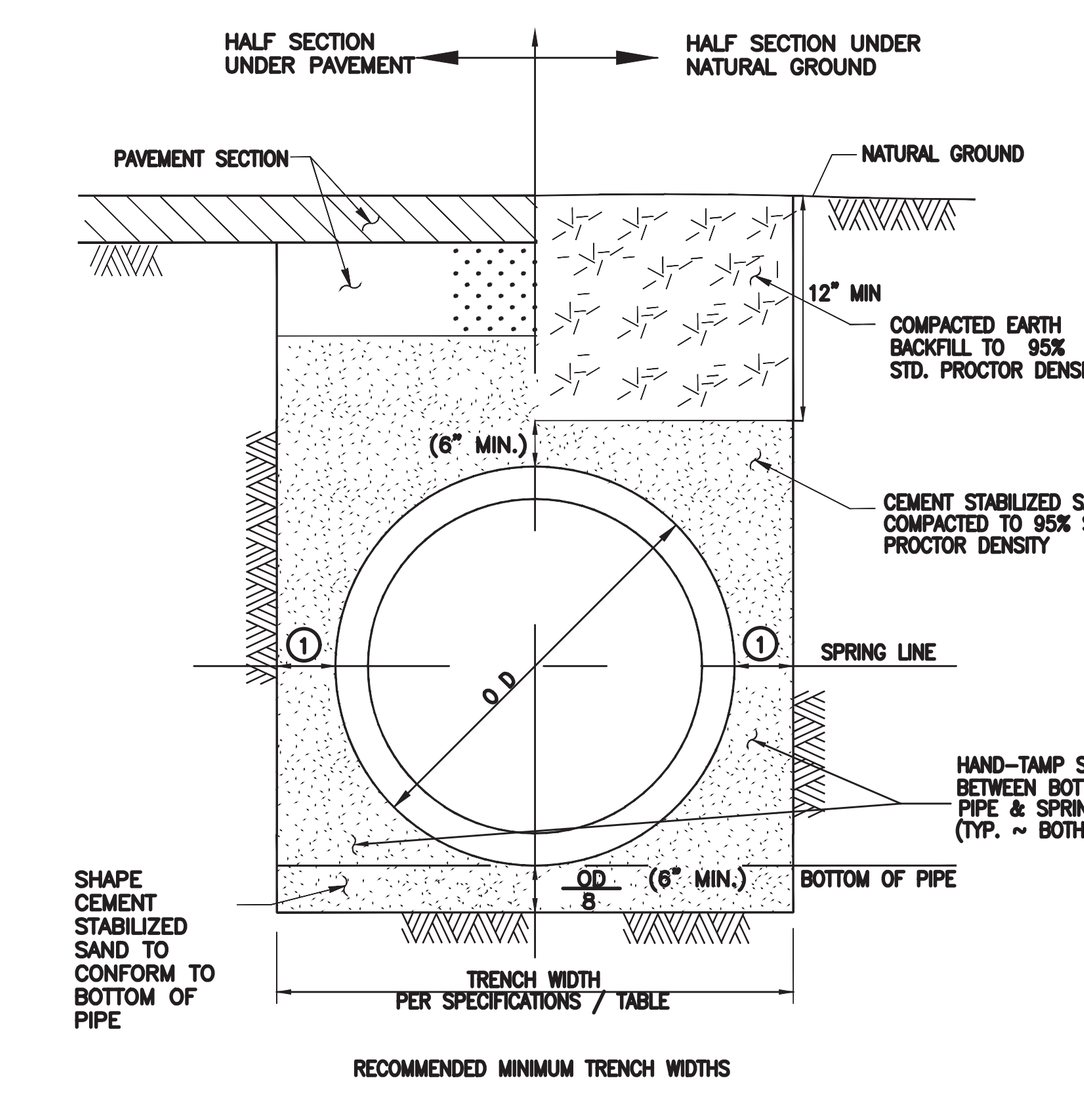
REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.



SECTION

GRATE INLET IN GRASS/LANDSCAPED AREAS
N.T.S.



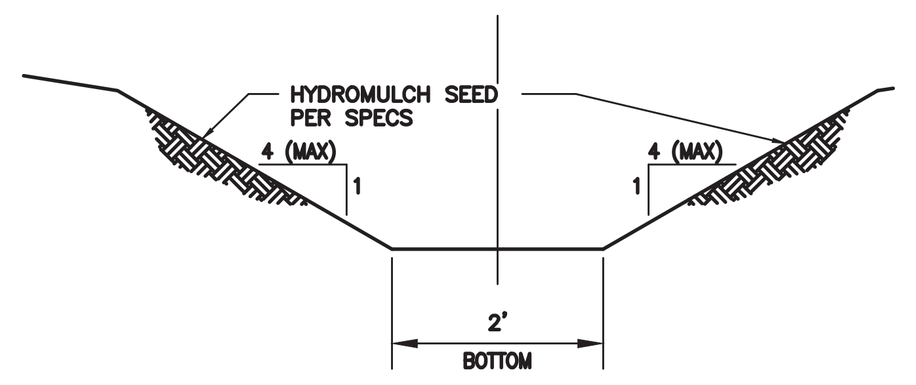
RECOMMENDED MINIMUM TRENCH WIDTHS

① 4" THRU 24" PIPE DIA. = 12" MIN. WIDTH.
30" AND GREATER PIPE DIA. = 18" MIN. WIDTH.

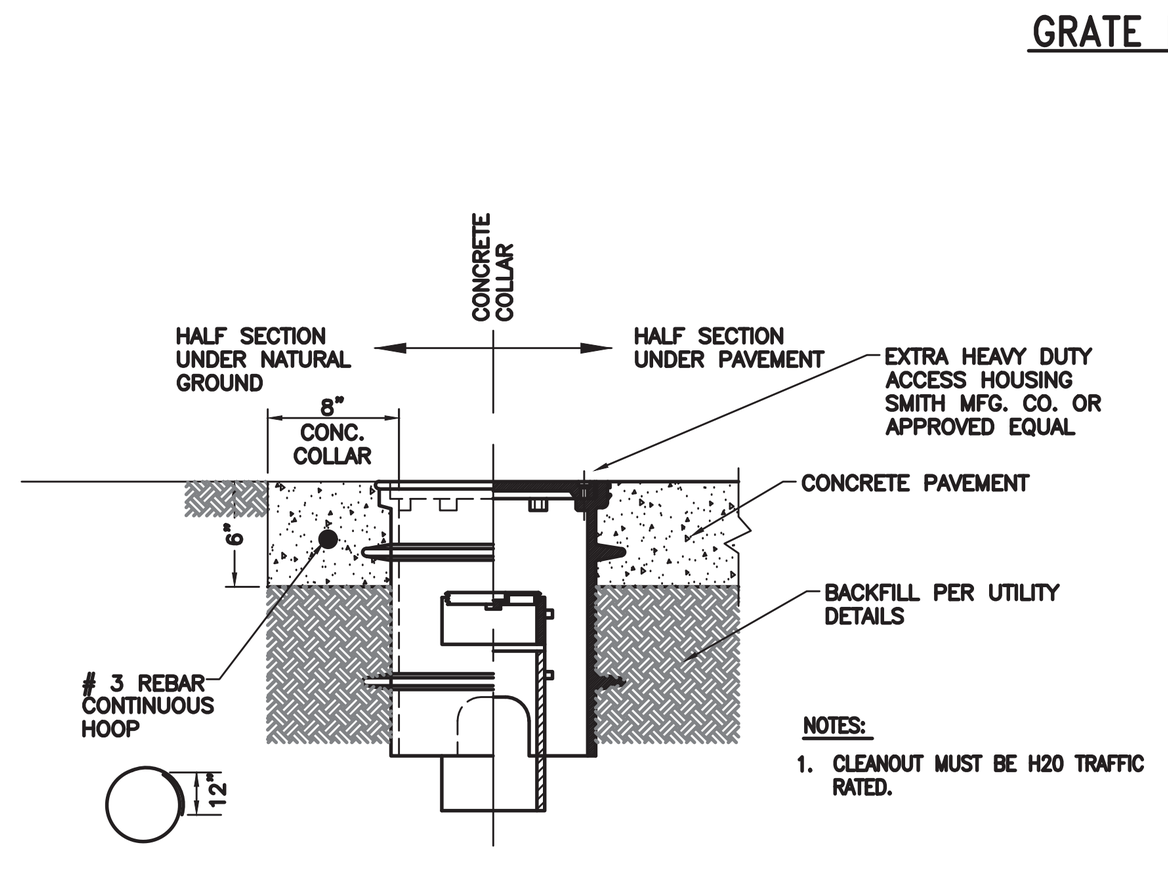
NOTES:

1. WHERE SOIL CONDITIONS REQUIRE, THE ENGINEER MAY ORDER USE OF GRANULAR MATERIAL IN LIEU OF CEMENT STABILIZED SAND BEDDING.
2. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED USING APPROVED SPECIAL DESIGN AS SHOWN ON DRAWINGS.
3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1.5 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS 8 INCHES THICK MAXIMUM AND COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE TO THE BOTTOM OF THE PAVEMENT SUBGRADE.
5. ALL BEDDING AND BACKFILL SHALL BE INCLUDED IN THE COST OF THE PIPE.

BEDDING FOR STORM SEWER
N.T.S.



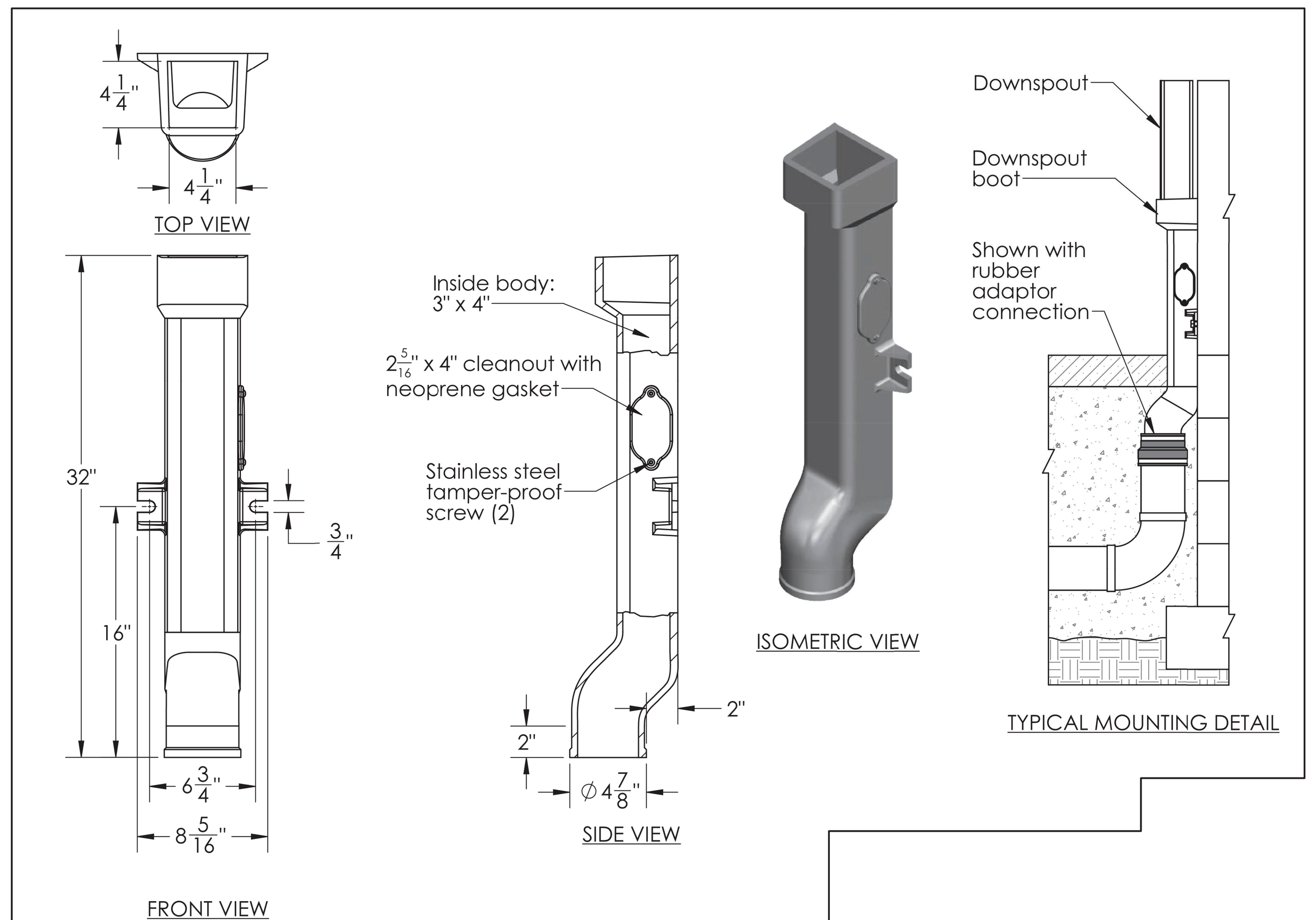
TYPICAL SWALE
N.T.S.



NOTES:

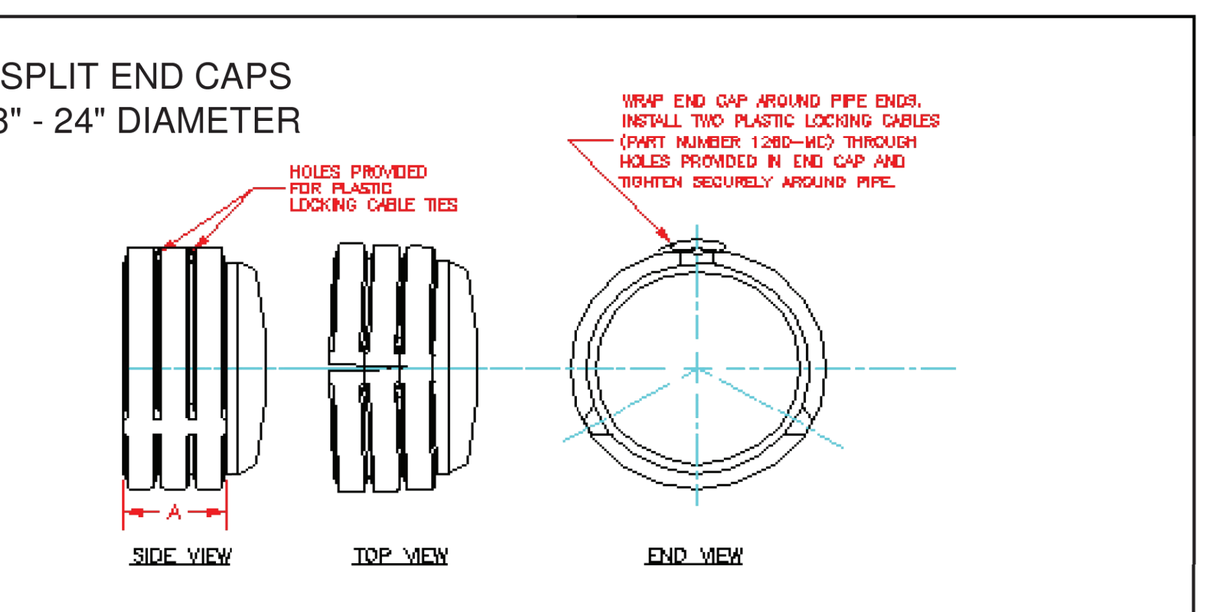
1. CLEANOUT MUST BE H20 TRAFFIC RATED.

STORM SEWER CLEANOUT
N.T.S.



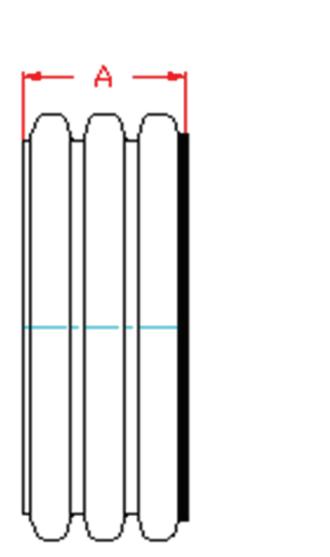
SPLIT END CAPS
8" - 24" DIAMETER

PART #	PIPE SIZE	A
1267AA	12 in (300 mm)	5.8 in (146 mm)
1567AA	15 in (375 mm)	7.8 in (197 mm)
1867AA	18 in (450 mm)	8.0 in (204 mm)
2467AA	24 in (600 mm)	9.5 in (240 mm)



END CAPS
12" - 60" DIAMETER

PART #	PIPE SIZE	A
1201AN	12 in (300 mm)	11.5 in (293 mm)
1501AN	15 in (375 mm)	13.0 in (329 mm)
1801AN	18 in (450 mm)	13.4 in (340 mm)
2101AN	21 in (525 mm)	12.0 in (305 mm)
2401AN	24 in (600 mm)	12.6 in (320 mm)
3001AN	30 in (750 mm)	12.4 in (314 mm)
3601AN	36 in (900 mm)	15.5 in (394 mm)
4201AN	42 in (1050 mm)	15.6 in (395 mm)
4801AN	48 in (1200 mm)	15.8 in (400 mm)
6001AN	60 in (1500 mm)	18.0 in (457 mm)



NOTE: ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY

ADS ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #:	2100	
DRAWN BY:	JCB	09.05.06
APPROVED BY:	JCB	06.25.07
REVISIONS:	TJR	4/20/2016

SMITH® JAY R. SMITH MFG. CO.®
MEMBER OF MORRIS GROUP INTERNATIONAL
POST OFFICE BOX 3237
MONTGOMERY, ALABAMA 36109-0237 (USA)
TEL: 334-277-8520 FAX: 888-377-7818 www.jrsmith.com
CUSTOMER DRIVEN SINCE 1926
MEMBER OF:

LOCATION

H	DRAWING NUMBER S7070	SIZE A	SCALE: NONE	DATE: 5-5-83	APPROVED BY: SJM	CHECKED BY: DT	DRAWN BY: BS	FIGURE NUMBER 7070

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

BACKWATER VALVE

TERMINAL VALVES

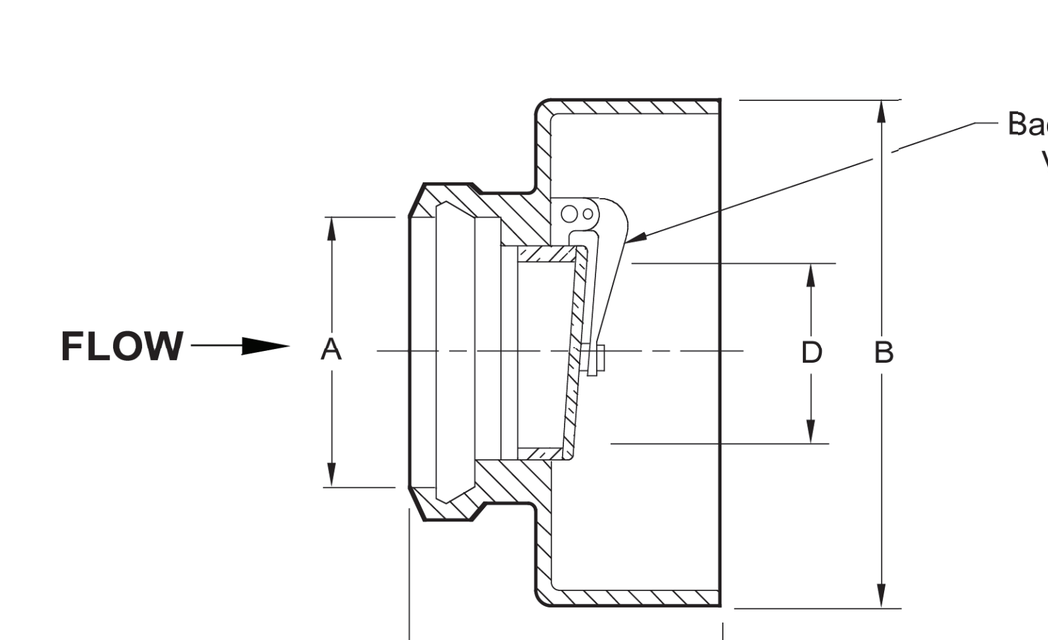


Fig. 7070C...... HUB TYPE

A SIZE	B DIA	C	D
02 (50)	6 1/4 (160)	5 1/4 (135)	1 3/4 (44)
03 (80)	8 (205)	5 1/2 (140)	2 3/4 (70)
04 (100)	9 (230)	5 3/4 (145)	3 3/4 (95)
05 (125)	11 1/2 (290)	6 (150)	4 1/2 (115)
06 (150)	11 1/2 (290)	6 (150)	5 3/4 (145)
08 (200)	13 1/2 (345)	6 3/4 (170)	8 (205)
10 (250)	15 3/4 (400)	7 3/4 (195)	10 (255)
12 (300)	17 1/2 (445)	8 3/4 (220)	12 (305)
16 (400)	26 1/4 (665)	16 1/2 (420)	18 (455)
18 (450)	26 1/4 (665)	16 (405)	18 (455)

NOTE: B.W.V. flapper set at factory to hang in closed position. Pin can be moved to permit flapper to hang open 1/4" (6) to permit air circulation.

NOTE: 2-4" size furnished with Delrin Backed Neoprene flapper. All other sizes furnished with bronze flapper.

NOTE: These valves offer protection against backwater surges. Backflow is prevented when valve is not obstructed by debris or sludge. Use for gravity flow only, not for pressurized applications.

REGULARLY FURNISHED:
Duco Cast Iron Body with Backwater Valve.

Conforms to ASME A112.14.1

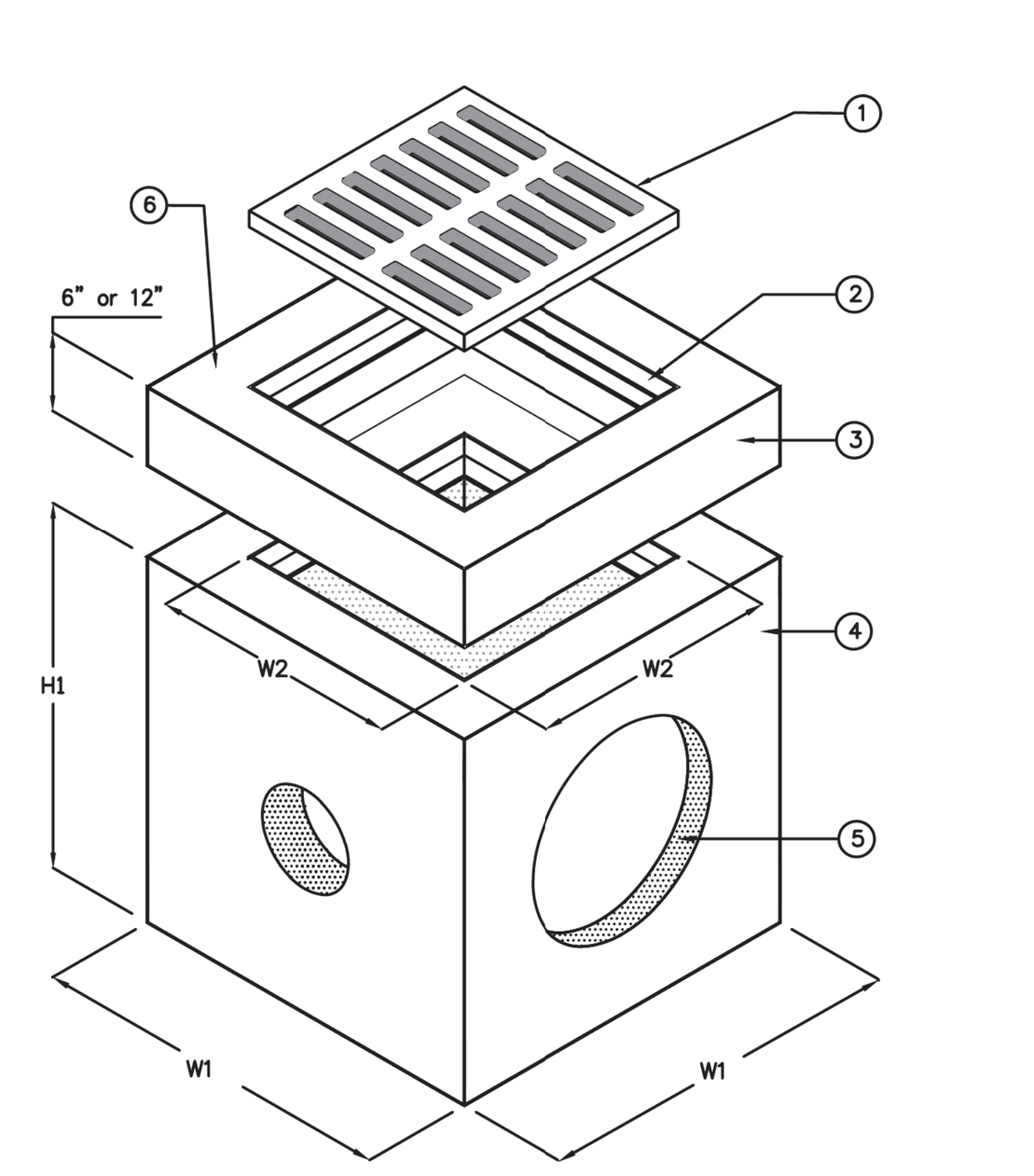
OPTIONAL MATERIALS:
Galvanized Cast Iron -G

NOTE: Dimensions shown in parentheses are in millimeters.

REV.	DATE	DESCRIPTION	BY	CKD. BY
H	10-22-24	Added Boxes to Table	HS	CL
G	4-10-24	Added ASME Note	HS	CB
F	7-20-23	Removed Function	HS	CL
E	12-5-16	Added Note	TBW	BW

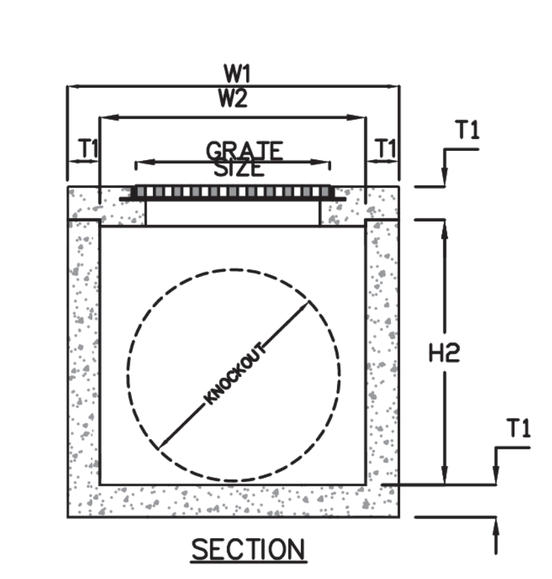
WEIGHT POUNDS | VOLUME CUBIC FEET | FIGURE NUMBER 7070

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



ISOMETRIC

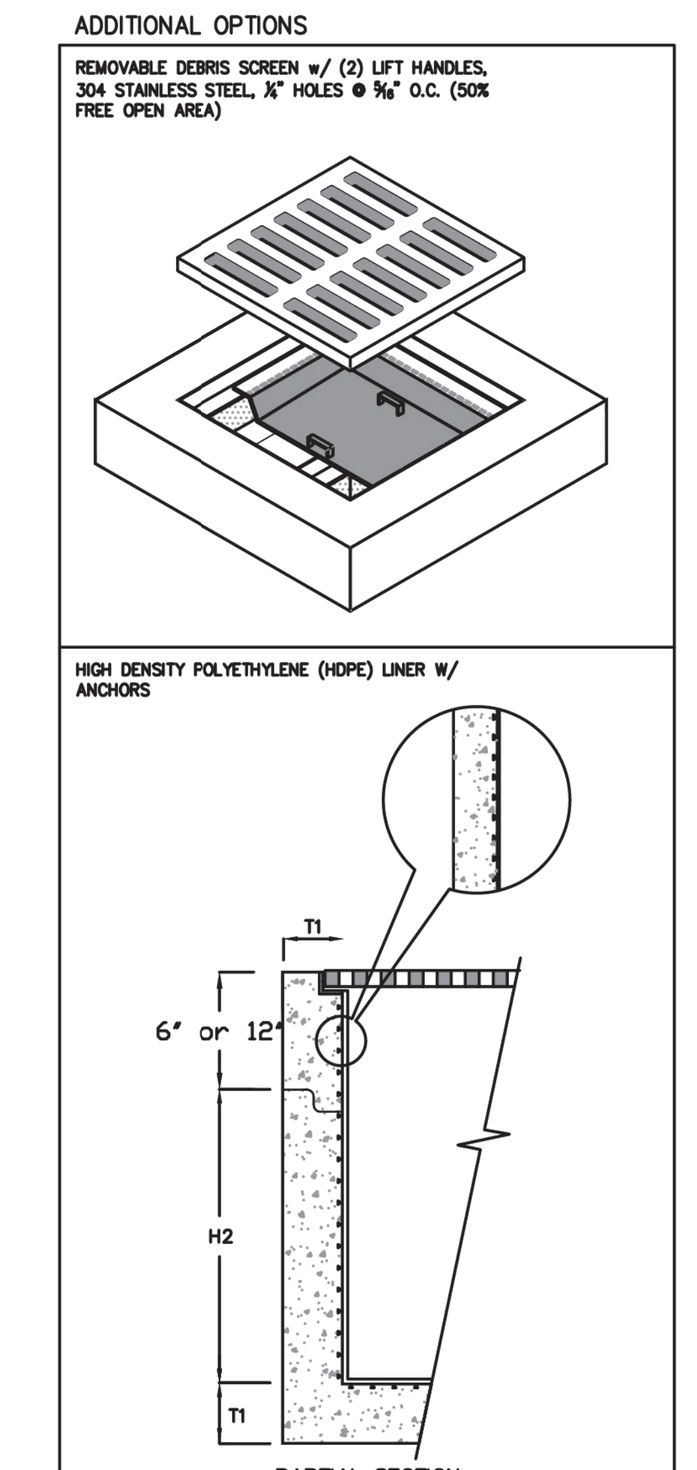
NOTE: KNOCKOUTS-STD, PENETRATIONS-OPTIONAL



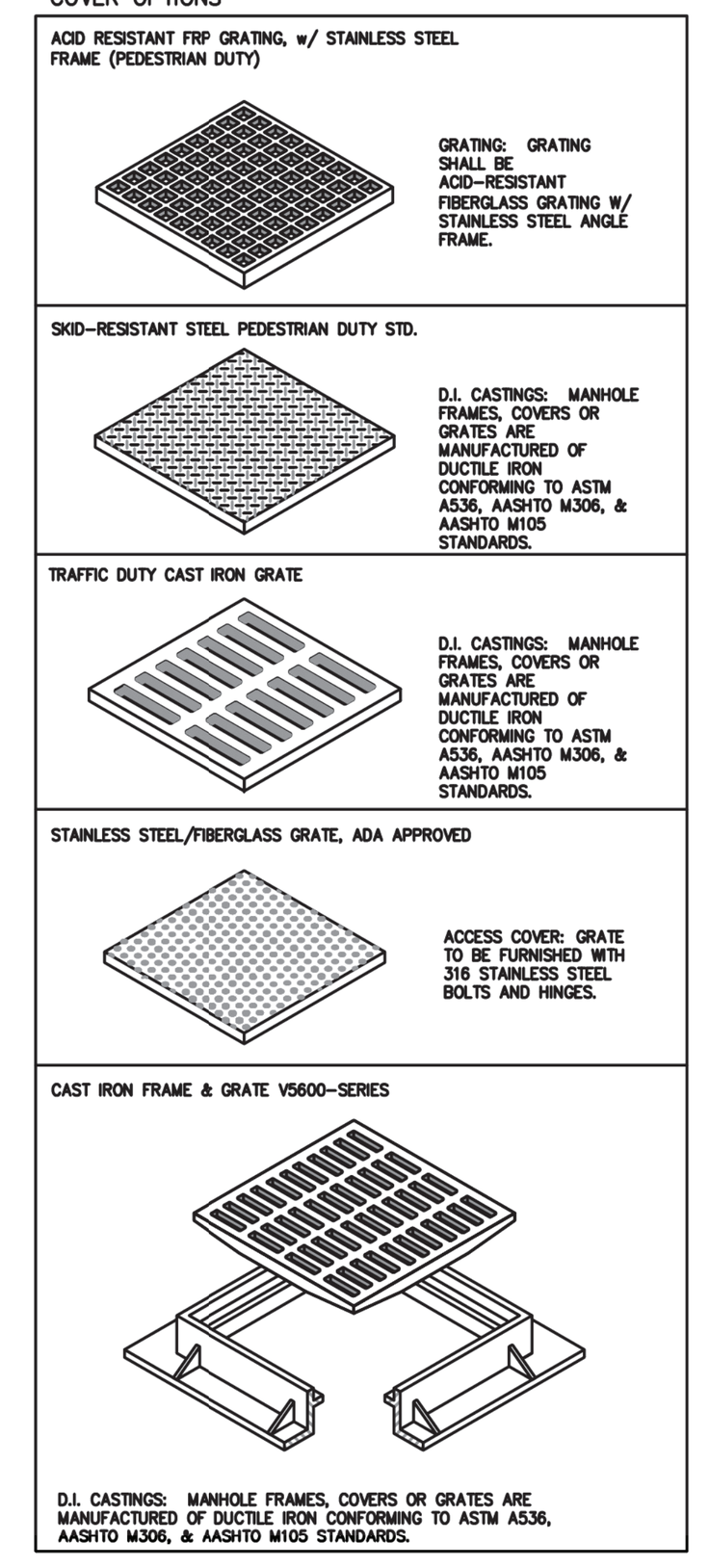
SECTION

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	GRATE OR COVER AS REQUESTED, SEE OPTIONS
2	1	CAST-IN STEEL FRAME
3	1	OPTIONAL TOP/EXTENSION 6" TO 18"
4	1	PRECAST CONCRETE BASIN SECTION
5	4	KNOCKOUTS (STD) AND PENETRATIONS (OPT) AS REQUIRED, SEE KO DIMENSION FOR MAXIMUM PIPE O.D.*
6	1	NAMEPLATE INDICATING: MFG: PARKUSA 888-611-PARK WWW.PARKUSA.COM MODEL: CB-01 DATE MANUFACTURED

ADDITIONAL OPTIONS

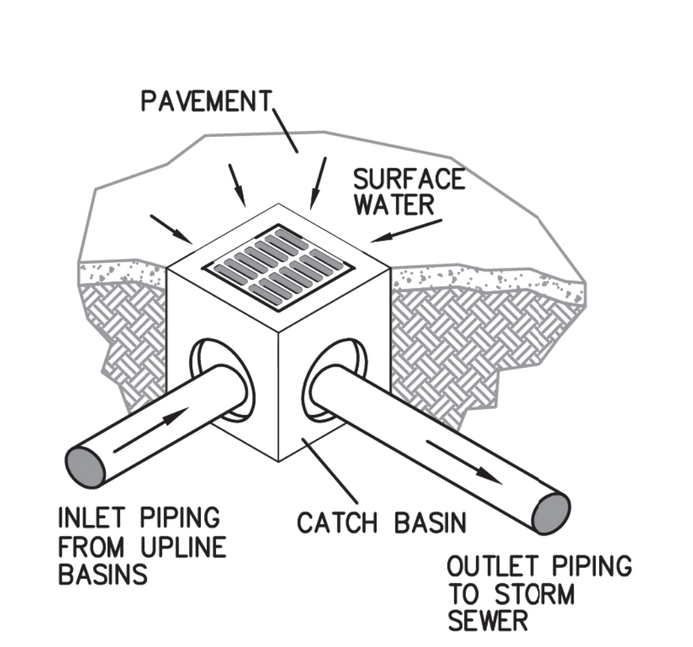


COVER OPTIONS



MODEL	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	OPEN AREA	WEIGHT LBS
CB-12	15"	10"	21"	18"	3"	2"	10"	12"x12"x1"	90	180
CB-14	20"	12"	28"	24"	4"	4"	12"	14"x14"x1½"	120	600
CB-18	24"	16"	34"	30"	4"	4"	15"	18"x18"x1½"	168	1,000
CB-20	26"	18"	34"	30"	4"	4"	17"	20"x20"x1½"	170	1,335
CB-24	32"	22"	41"	36"	5"	5"	22"	24"x24"x2"	268	2,245
CB-27	37"	25"	42"	36"	6"	6"	24"	27"x27"x2"	350	2,875
CB-30	42"	30"	42"	36"	6"	6"	30"	32"x32"x2"	490	3,675
CB-36	48"	36"	42"	36"	6"	6"	32"	38"x38"x2"	693	4,585
CB-48	60"	48"	54"	48"	6"	6"	48"	38"x38"x2"	693	7,250
*CB-60	72"	60"	66"	60"	6"	6"	60"	38"x38"x2"	693	10,500
*CB-72	84"	72"	78"	72"	6"	6"	72"	38"x38"x2"	693	15,350
*CB-84	96"	84"	78"	72"	6"	6"	72"	38"x38"x2"	693	19,500

*KNOCKOUTS NOT AVAILABLE



SPECIFICATIONS

CONCRETE : CLASS I/II CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED. STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30.

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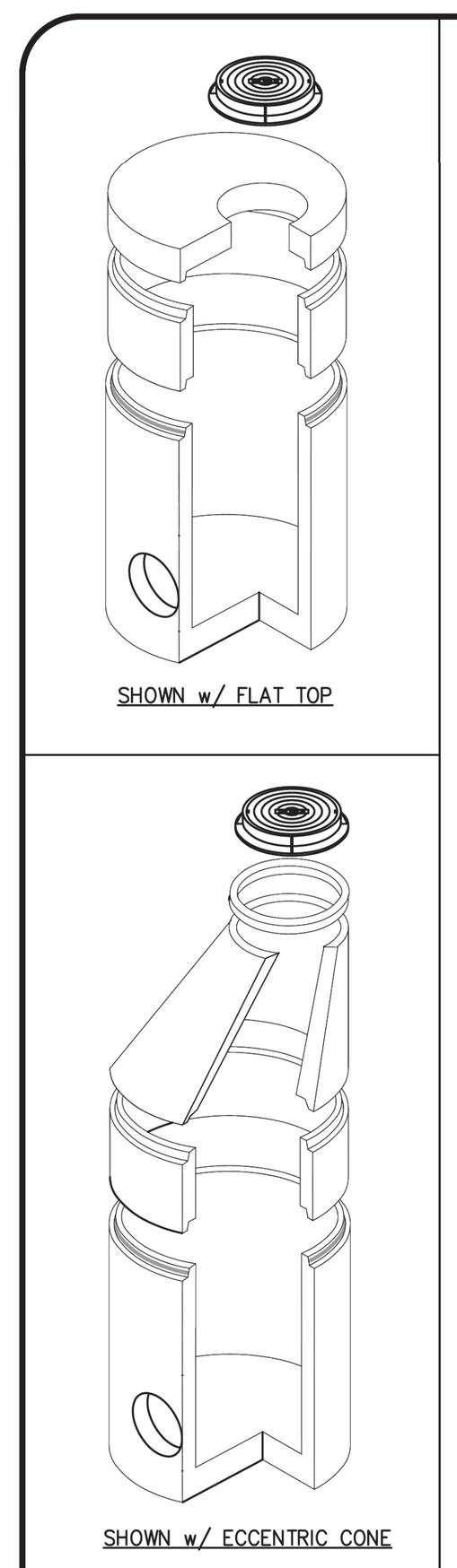
PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA
www.parkusa.com 888-611-PARK

CATCH BASIN
MODEL CB – 12" THRU 84"

PM . | PC . | DRN . | ENG . | DWG. NO. CB-1 | REV. .
DATE 01/2019



OPTIONS

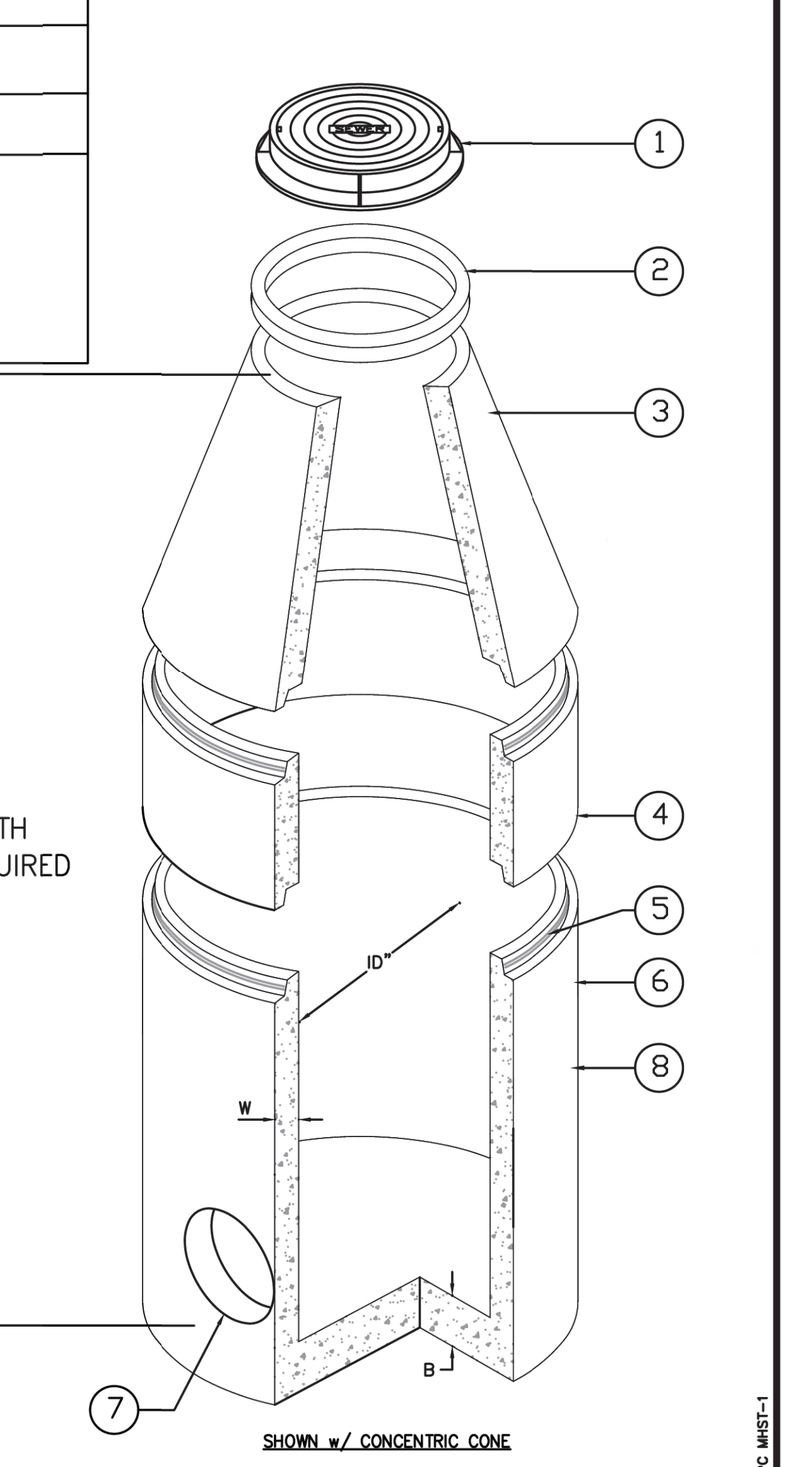
* STEPS
* EXTENDED LIP BASE
* COATINGS
* BOTTOM

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	CAST IRON MANHOLE FRAME & COVER
2	1	3" THICK ADJUSTMENT RINGS AS REQUIRED. FLAT TOPS ARE ARE AVAILABLE.
3	1	CONCENTRIC CONE
4	1	RISER SECTIONS AVAILABLE IN VARYING HEIGHTS.
5	1	48" USES O'RING, OTHER SIZES USE RAMNEK JOINT SEALANT
6	1	BASE SECTION, KNOCKOUTS AS REQUIRED.
7	1	HOLES AS REQUIRED
8	1	NAMEPLATE INDICATING: PRECAST CONCRETE MANHOLE MFG: ParkUSA 888-611-PARK WWW.PARKUSA.COM MODEL PCMHST

DIMENSIONS AND WEIGHTS			
I.D. SIZE (in)	W (in)	B* (in)	RISER WT/LF (lb)
48"	5"	6"	868
60"	6"	6"	1300
72"	6"	6"	1811
84"	6"	6"	2350
96"	6"	6"	3090
120"	8"	6"	3500
120"	8"	6"	3500

* MIN. THICKNESS BELOW INVERT

1. LIFTING INSERTS AS REQUIRED.
2. ALL JOINTS SHALL BE SEALED w/ RAM-NEK JOINT SEALANT
3. STRUCTURE TO BE PLACED ON MIN. 6" STABILIZED BASE.



SPECIFICATIONS

CONCRETE : CLASS I/II CONCRETE WITH OF DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. RATED FOR H-20 LOADING.

REINFORCEMENT: STRUCTURAL REINFORCEMENT CONFORMING TO ASTM-C-478.

C.I. CASTINGS: CAST IRON FRAMES AND GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30.

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PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA
www.parkusa.com 888-611-PARK

PRECAST CONCRETE MANHOLE
STORM SEWER-MODEL PC MHST – 48" THRU 120"

PM . | PC . | DRN . | ENG . | DWG. NO. PC MHST-1 | REV. .
DATE 01/2019

cre8 ARCHITECTS
3815 Montrose Boulevard
Suite 123
Houston, Texas 77006
713.526.cre8 (2738)
713.526.3198 fax

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

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(832) 287-9874

STATE OF TEXAS
BRIAN W. REED
128933
LICENSED PROFESSIONAL ENGINEER

11/10/2025

Revision Schedule

NO.	ISSUE	DATE
1	CONSTRUCTION DOCUMENTS	2025-11-10

Sheet Information

Date	2025-11-10
Job Number	23-012
Drawn	JDK/BWR
Checked	BWR
Approved	BWR

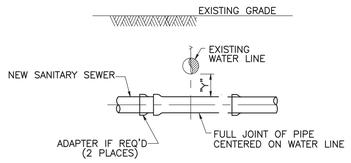
Title

STORM SEWER DETAILS

Sheet

C7.02

90% Construction Document



INSTALLATION REQUIREMENTS
1. IF "Y" IS GREATER THAN 6" AND "Y" IS LESS THAN 2', USE MINIMUM 18 FT JOINT OF PRESSURE–RATED PIPE PER TABLE 02730–04.
2. IF "Y" IS GREATER THAN 2' AND "Y" IS LESS THAN 9', USE GRAVITY SEWER PIPE IN CEMENT–STABILIZED SAND EMBEDMENT.
3. IF "Y" IS GREATER THAN 9', USE STANDARD EMBEDMENT AND NORMAL JOINT SPACING.

NEW SANITARY SEWER CROSSING EXISTING WATER LINE

INSTALLATION REQUIREMENTS
1. IF "X" IS LESS THAN 9' AND SEPARATION IS LESS THAN 9', USE PRESSURE–RATED PIPE MH TO MH. "X" MUST BE AT LEAST 4 FT.
2. IF "X" IS GREATER THAN OR EQUAL TO 4' AND SEPARATION IS 9' OR GREATER, USE STANDARD PIPE AND EMBEDMENT.

NEW SANITARY SEWER PARALLEL TO EXISTING WATER LINE

NOTES:

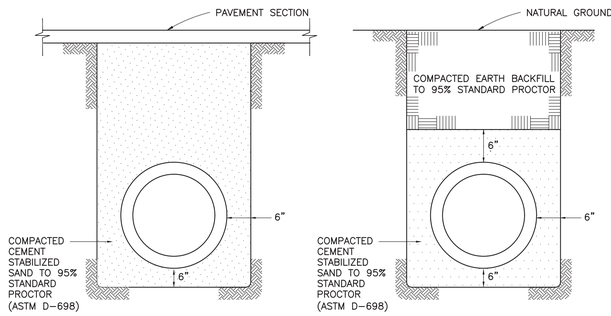
1. SANITARY SEWER MUST BE BELOW WATER LINE WHEREVER POSSIBLE. WHEN WATERLINE IS BELOW THE SANITARY SEWER PROVIDE MINIMUM 2 FT SEPARATION AND INSTALL PIPE SAME AS FOR SEWER BELOW WATER.
2. WHEN PRESSURE–RATED PIPE IS REQUIRED, PROVIDE PIPE WITH MINIMUM 150 psi PRESSURE RATING.
3. ADAPTERS MUST BE FACTORY MOLDED OR FABRICATED, WITH RING STIFFNESS AT LEAST EQUAL TO THE ADJOINING SANITARY SEWER PIPE, AND USING RESILIENT GASKET OR SEAL MATERIAL. FLEXIBLE RUBBER "BOOT" TYPE ADAPTERS WILL NOT BE ACCEPTED.
4. INSTALL FORCE MAINS SAME AS FOR GRAVITY SEWER, USING SPECIFIED PRESSURE PIPE.
5. "Y" MUST ALWAYS BE GREATER THAN OR EQUAL 6".
6. "X" MUST BE GREATER THAN OR EQUAL TO 4 FT.
7. ALTERNATIVES MAY BE SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS.
8. SEPARATION REQUIREMENTS SHOWN HERE DO NOT APPLY TO SERVICE CONNECTIONS – REFER TO PLUMBING CODE FOR APPLICABLE REQUIREMENTS.
9. CEMENT–STABILIZED SAND SHALL BE 1½ SACKS OF CEMENT PER CUBIC YARD OF SAND.

TABLE 02730–04
SEWER LINE CROSSING BELOW WATER LINE WITHIN 2 FT SEPARATION

GRAVITY SANITARY SEWER PIPE SIZE	PRESSURE–RATED PIPE SIZE & TYPE (NOTE 2)	ADAPTERS REQUIRED
6" TO 12" (ASTM D–3034)	SAME SIZE ASTM D–2241, SDR 26	ASTM D–3034 TO D–2665 (SEWER TO D.W.V.) ADAPTER COUPLING
15" (ASTM D–3034)	14" LINED DUCTILE IRON OR AWWA C–905, DR–25	NONE REQUIRED
18" AND 24"	SAME SIZE AWWA C–905, PRESSURE–RATED FRP, OR LINED DUCTILE IRON, MANHOLE TO MANHOLE	NONE REQUIRED
21" AND 27"	PRESSURE PIPE NOT AVAILABLE. SEE CASING ALTERNATIVE	NOT APPLICABLE
30" AND LARGER	SAME SIZE PRESSURE–RATED FRP OR LINED DUCTILE IRON, MANHOLE TO MANHOLE	NOT APPLICABLE
CASING ALTERNATIVE: ANY SIZE AND TYPE	INSTALL AS CASING PIPE MIN 18 FT JOINT OF PRESSURE PIPE AT LEAST 2 NOMINAL SIZES LARGER THAN SAN. SEWER CARRIER PIPE. GROUT ANNULAR SPACE WITH TUNNEL GROUT	NOT APPLICABLE

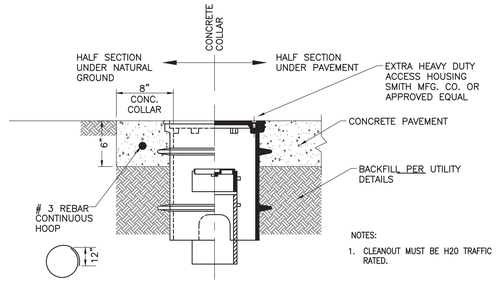
INSTALLATION OF SANITARY SEWER LINES CROSSING OR PARALLEL TO WATER LINES

N.T.S.



SANITARY SEWER TRENCH

N.T.S.

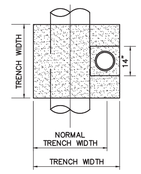


NOTES:

1. CLEANOUT MUST BE H20 TRAFFIC RATED.

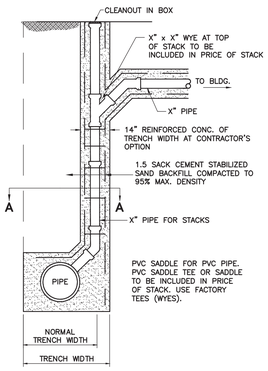
SANITARY SEWER CLEANOUT

N.T.S.



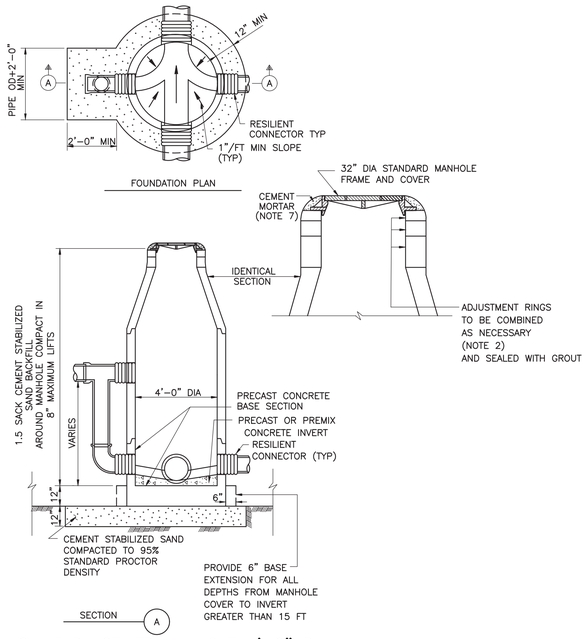
SECTION "A–A"

N.T.S.



SANITARY SEWER STACK FOR BUILDING CONNECTIONS

N.T.S.



NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'–6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'–0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR ON DRAWINGS OR WHEN DIFFERENCE IN FLOW LINE ELEVATIONS OF MANHOLE EXCEEDS 24".
5. SEAT MANHOLE FRAME IN SEALANT.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8" EW.
9. INTERIOR SURFACE OF MANHOLE SHALL BE SEALED WITH THANE COAT OR APPROVED EQUAL AS PER MANUFACTURERS SPECIFICATIONS.

SANITARY SEWER MANHOLE 4'–0" DIA

N.T.S.

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

TALON ENGINEERING
CIVIL ENGINEERING & SPORTS DESIGN CONSULTANTS
TEXAS ENGINEERING FIRM F-24281
1118 WOLFS KNOLL
HOUSTON, TX, 77094
(832) 287-9874

STATE OF TEXAS
BRIAN W. REED
128933
LICENSED
PROFESSIONAL ENGINEER

11/10/2025

Revision Schedule

NO.	ISSUE	DATE
1	CONSTRUCTION DOCUMENTS	2025-11-10

Sheet Information	
Date	2025-11-10
Job Number	23-012
Drawn	JDK/BWR
Checked	BWR
Approved	BWR

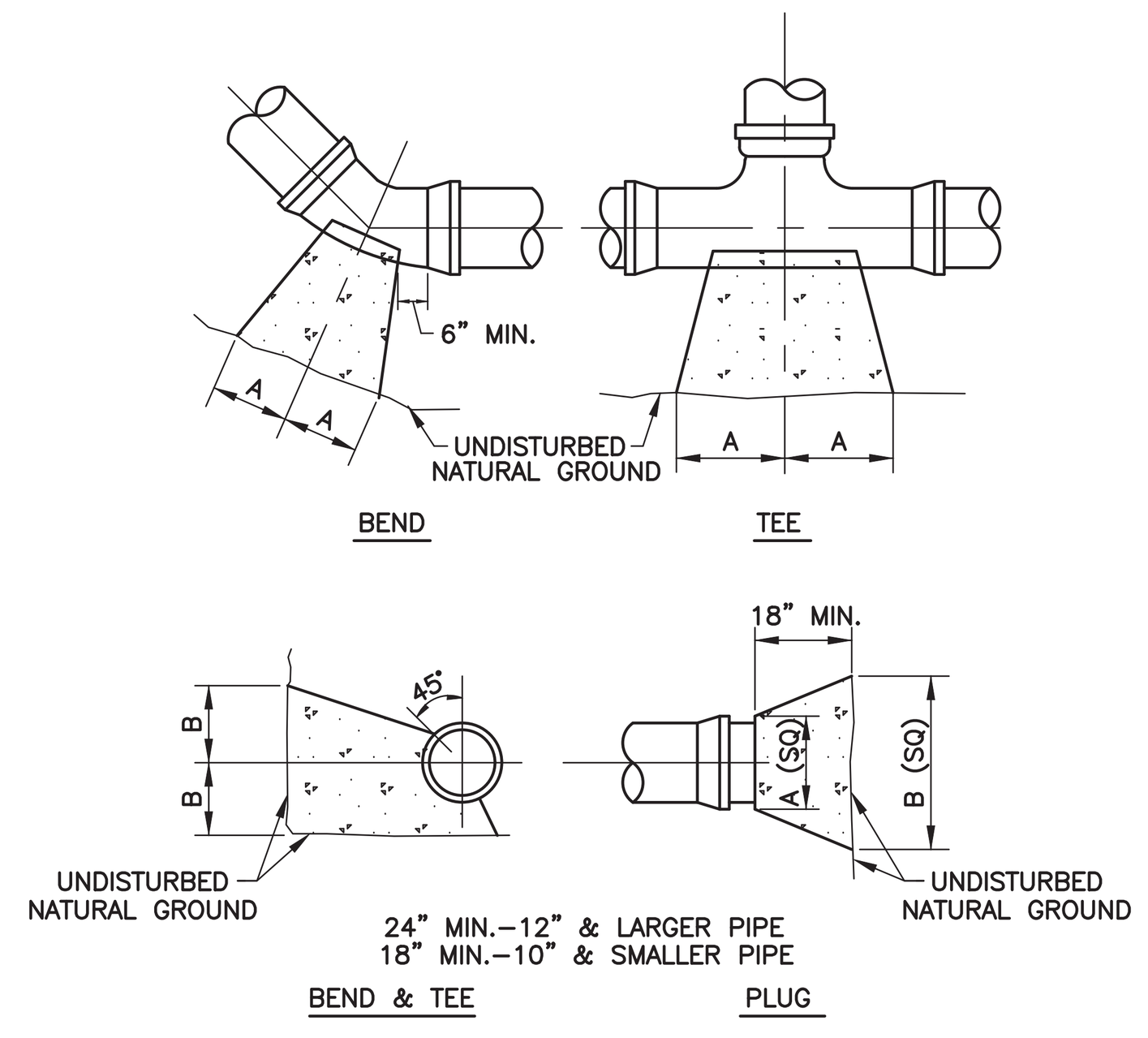
Title

SANITARY SEWER DETAILS

Sheet

C7.03

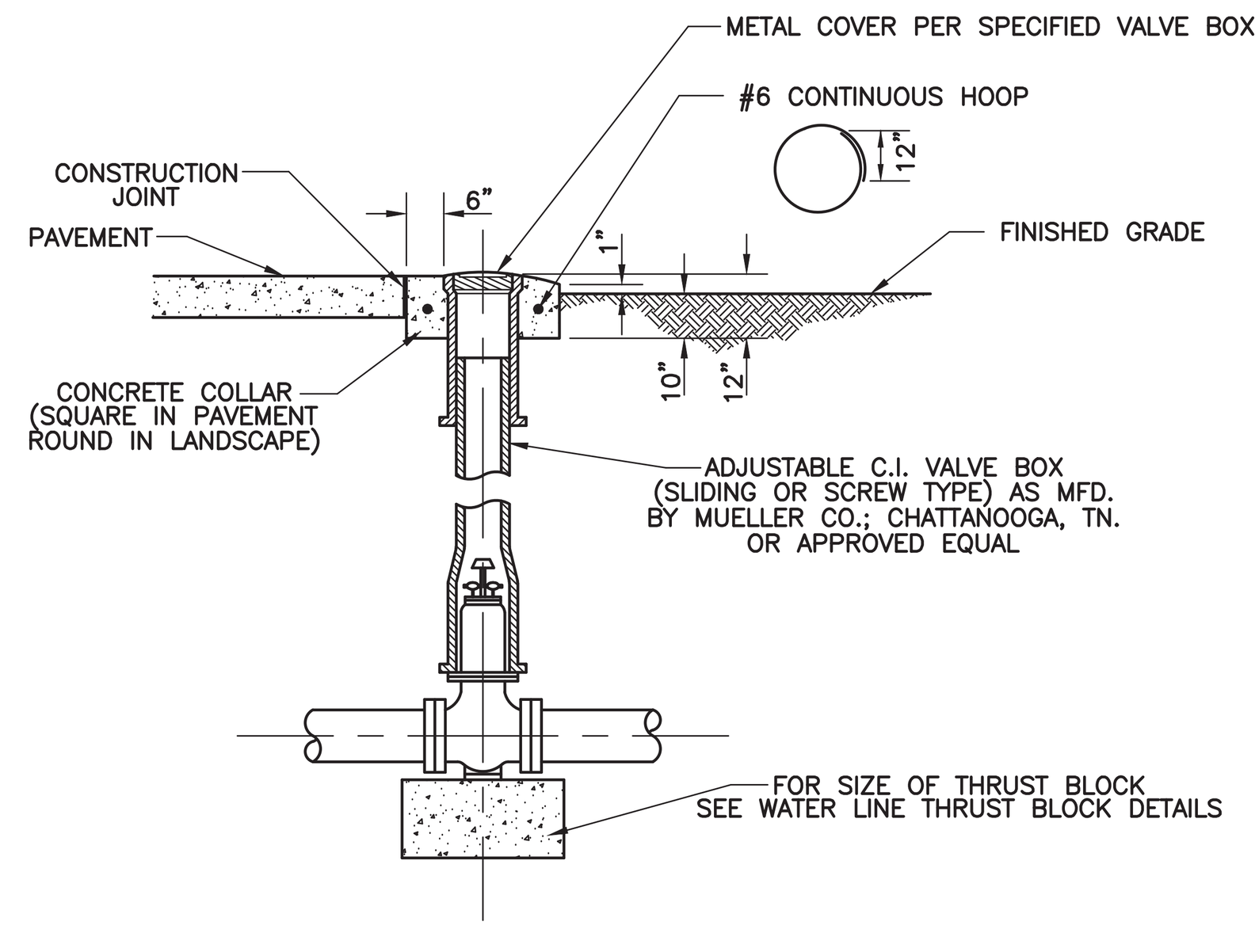
90% Construction Document



SIZE	90° BEND		45° BEND		22 1/2° BEND		TEES		PLUGS	
	A	B	A	B	A	B	A	B	A	B
2 1/2"	12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
6"	16"	10"	9"	10"	6"	12"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

ALL CONCRETE SHALL BE MIN. 5SK, 3,000 P.S.I.

WATER LINE THRUST BLOCK
N.T.S.



VALVE BOX
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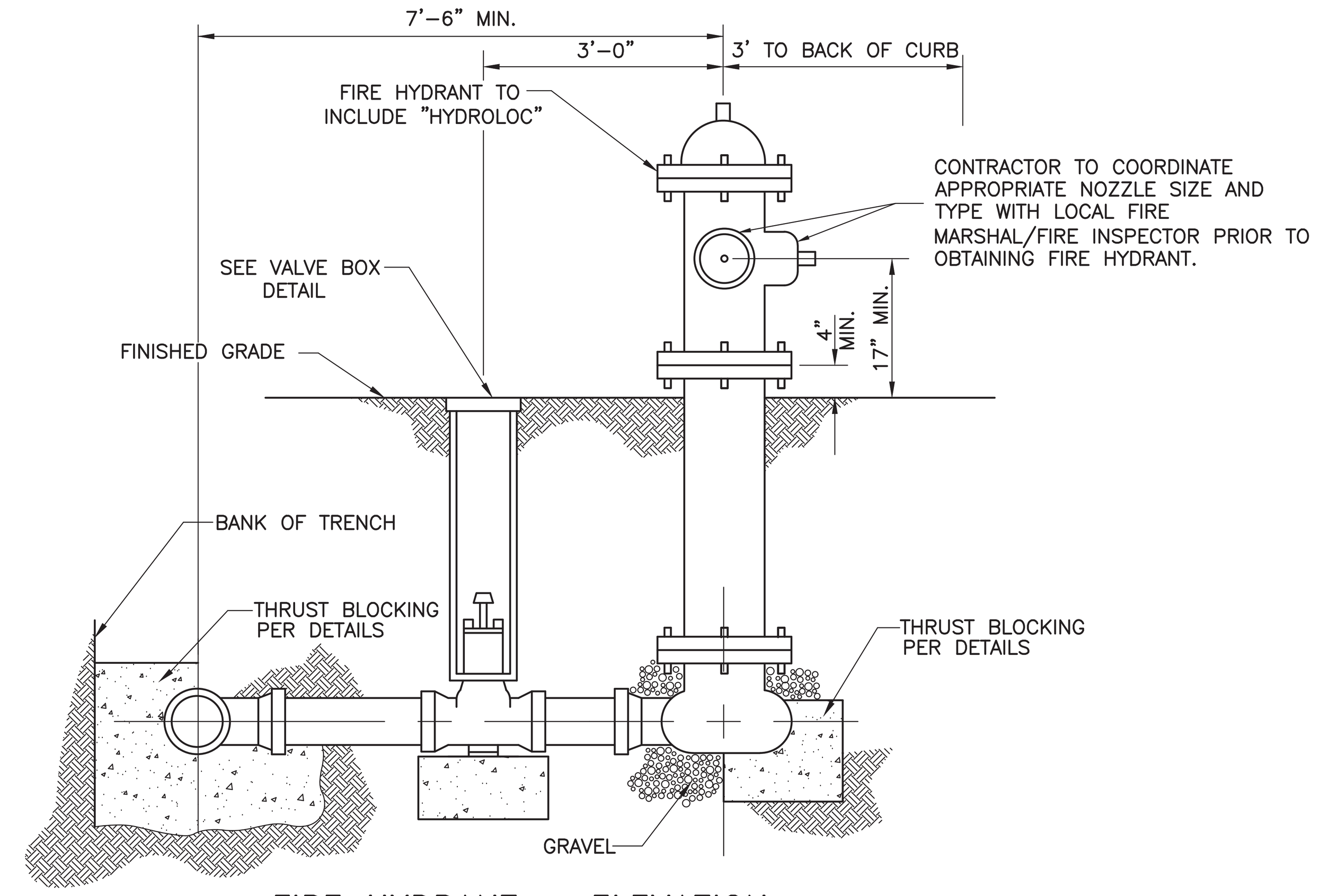
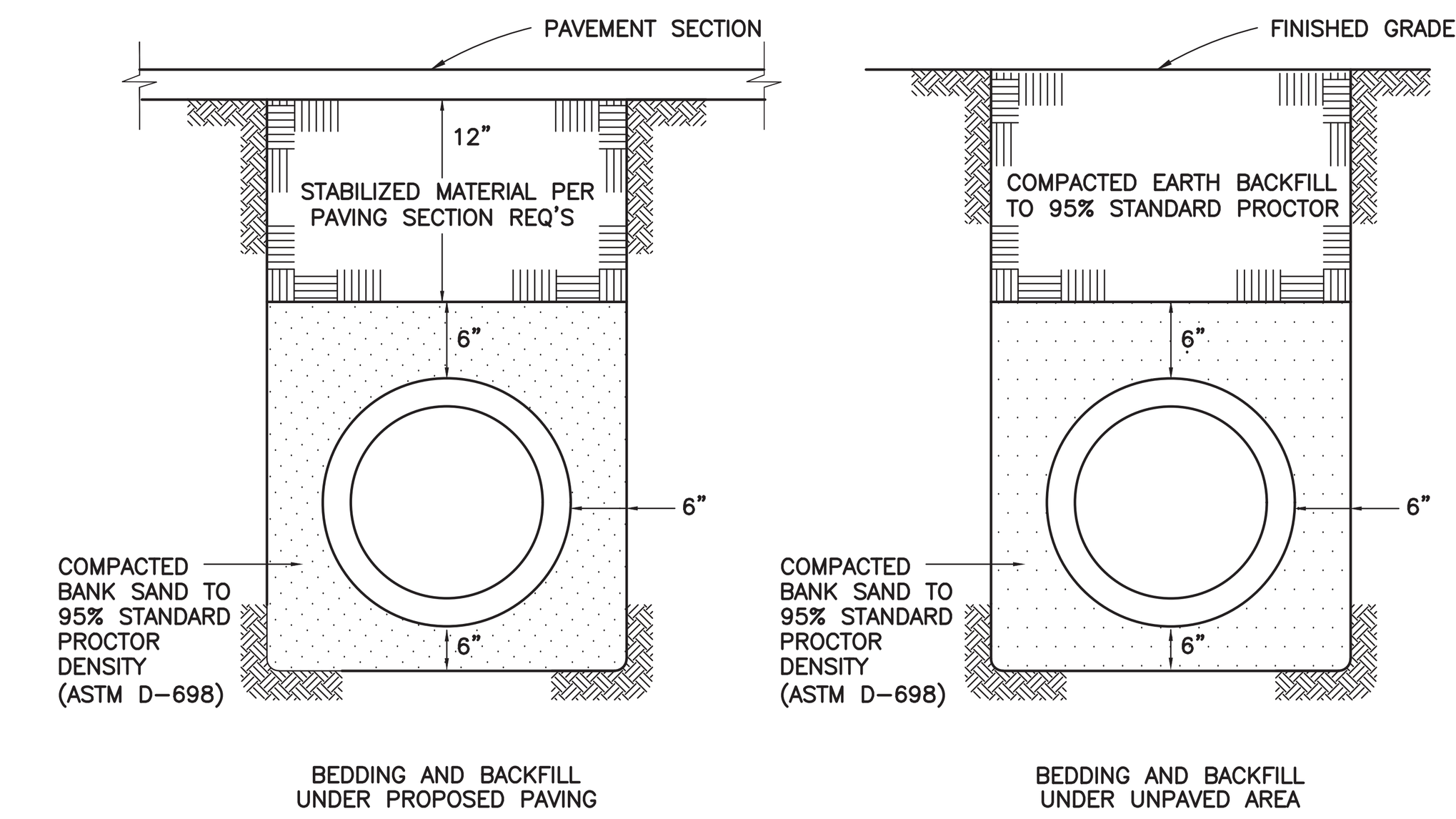
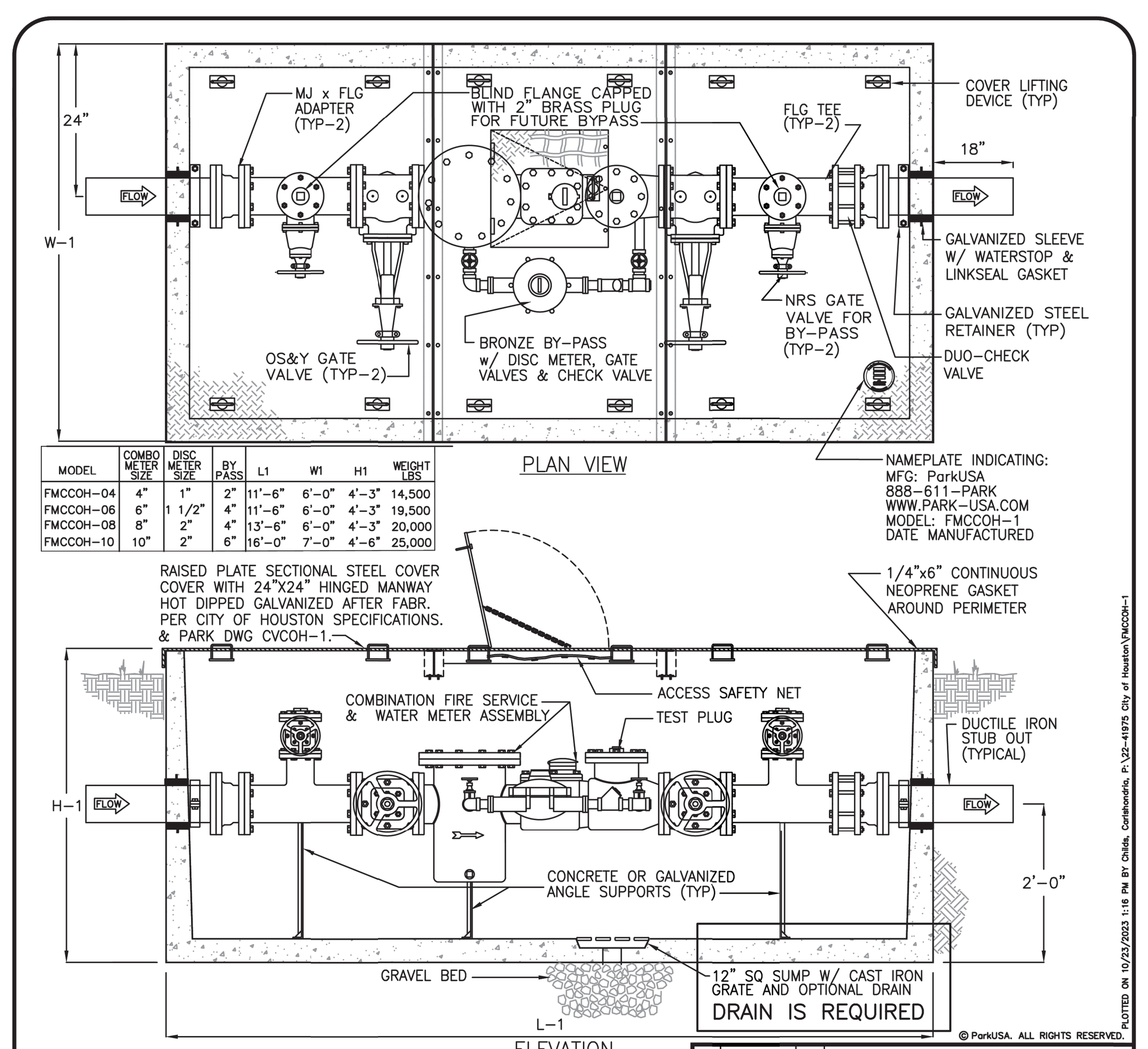


FIRE HYDRANT – ELEVATION
N.T.S.



WATER LINE TRENCH
N.T.S.



MODEL	COMBO METER SIZE	DISC METER SIZE	BY PASS	L1	W1	H1	WEIGHT LBS
FMCCOH–04	4"	1"	2"	11'–6"	6'–0"	4'–3"	14,500
FMCCOH–06	6"	1 1/2"	4"	11'–6"	6'–0"	4'–3"	19,500
FMCCOH–08	8"	2"	4"	13'–6"	6'–0"	4'–3"	20,000
FMCCOH–10	10"	2"	6"	16'–0"	7'–0"	4'–6"	25,000

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Specifications
CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

ACCESS COVER: All steel fabrication shall be in accordance to AWA D1.1. Steel shall ASTM A36 carbon steel, and hot dipped galvanized after fabrication in accordance to ASTM A123. Standard cover is rated for 50 PSF.

Engineering Data
The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

FM AWWA UL UPC NPCA CERTIFIED PLANT

CREATED ON 10/23/2023 BY ----- LAST MODIFIED ON 10/23/2023 1:14 PM BY CCHILDS
PLOTTED ON 10/23/2023 1:16 PM BY Childs, Cortahondria, P:\22–41975 City of Houston\FMCCOH–1

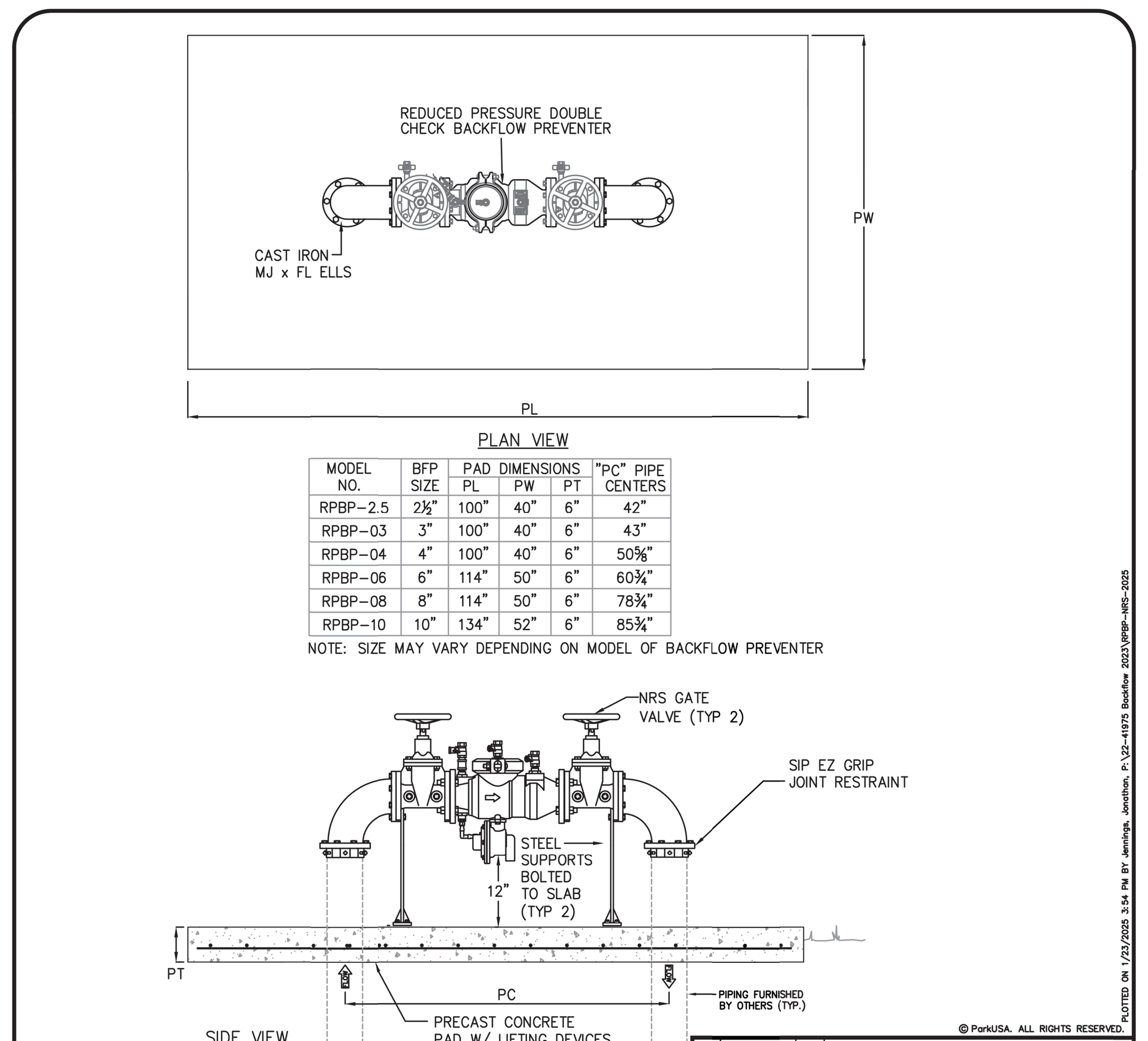
REV	DATE	BY	DESCRIPTION
A	.	.	.

PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA — A Northwest Pipe Company

FIRE/DOMESTIC COMBINATION METER
ASSEMBLY MODEL FMCCOH – 4" THRU 10"

PM . PC . DRN . ENG . DWG. NO. FMCCOH–1 REV. A
DATE 10/2023



MODEL NO.	BFP SIZE	PAD DIMENSIONS PL	PW	PT	"PC" PIPE CENTERS
RPBP–2.5	2½"	100"	40"	6"	42"
RPBP–03	3"	100"	40"	6"	43"
RPBP–04	4"	100"	40"	6"	50⅝"
RPBP–06	6"	114"	50"	6"	60¾"
RPBP–08	8"	114"	50"	6"	78¾"
RPBP–10	10"	134"	52"	6"	85¾"

NOTE: SIZE MAY VARY DEPENDING ON MODEL OF BACKFLOW PREVENTER

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Specifications
GENERAL
The Model ERP aluminum enclosure is pre engineered to provide protection to backflow preventers, meters, pumps, and other devices installed above ground. These water conveying devices are subject to freezing and vandalism. The enclosure is designed to be installed over the equipment after installation. The enclosure is equipped with access doors to provide adequate access to the equipment.

CONSTRUCTION
The enclosure shall be manufactured from all new materials. The exterior shall be fabricated with 0.090 aluminum, continuously welded. The access door(s) shall be of like material and hinged with a continuous hinge. The door shall be equipped with a 3–point locking mechanism. The interior of the enclosure shall be structurally lined with high performance, non–wicking insulation.

HEATER
Interior heaters (if required) shall be thermostatically controlled and be mounted to the interior wall of the enclosure. A GFI receptacle shall be provided by others to provide power to the electric heater.

CREATED ON 1/23/2025 BY ----- LAST MODIFIED ON 1/23/2025 3:37 PM BY JJENNINGS
PLOTTED ON 1/23/2025 3:54 PM BY Jennings, Jonathon, P:\22–41975 Backflow 2023\RPBP–NRS–2025

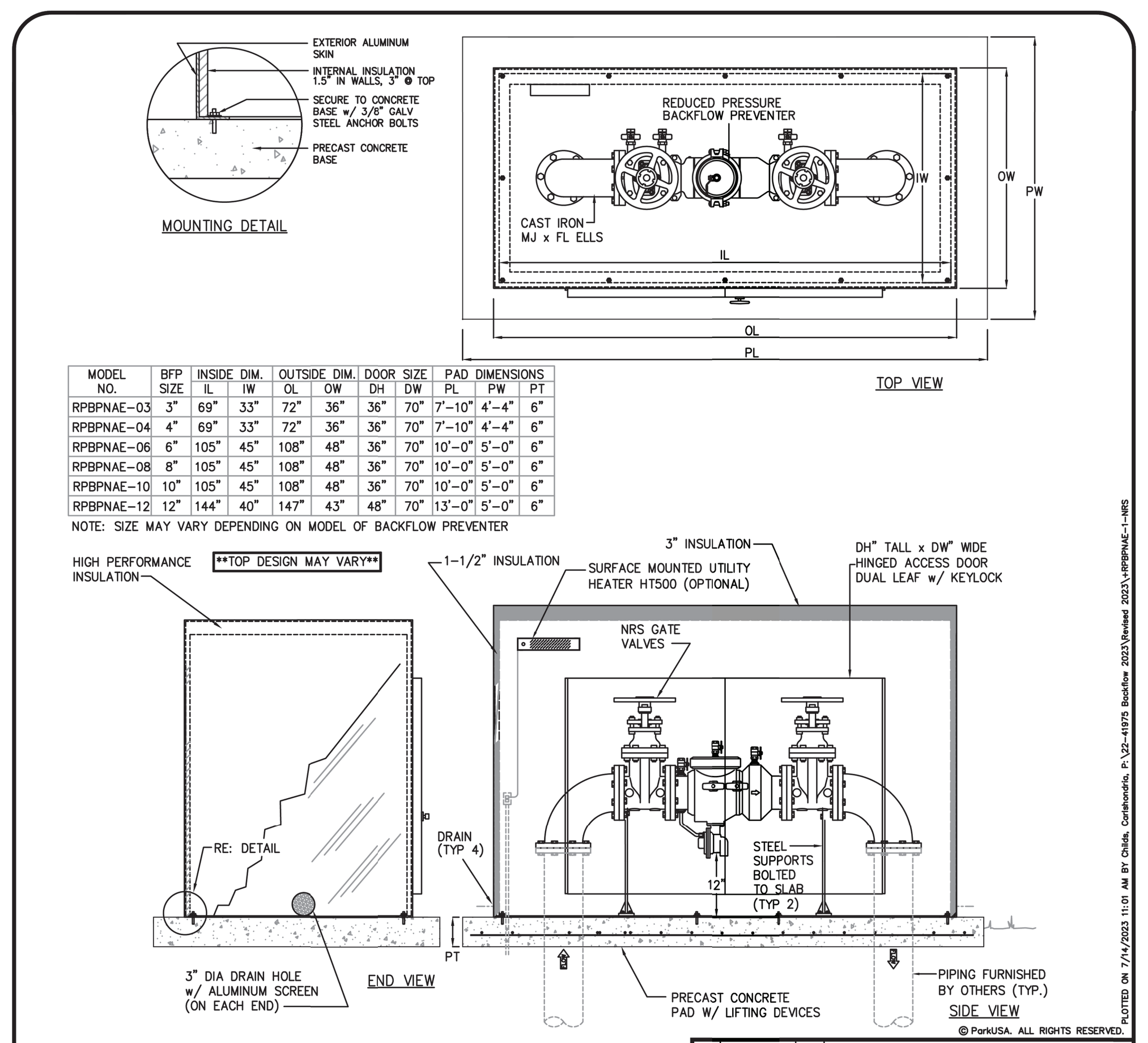
REV	DATE	BY	DESCRIPTION
A	.	.	.

PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA — A Northwest Pipe Company

REDUCED PRESSURE BACKFLOW PREVENTER
MODEL SIZE 2.5" THRU 10"

PM . PC . DRN . ENG . DWG. NO. RPBP–1 REV. A
DATE 01/2025



MODEL NO.	BFP SIZE	INSIDE DIM. IL	IW	OUTSIDE DIM. OL	OW	DOOR SIZE DH	DW	PAD DIMENSIONS PL	PW	PT
RPBPNAE–03	3"	69"	33"	72"	36"	36"	70"	7'–10"	4'–4"	6"
RPBPNAE–04	4"	69"	33"	72"	36"	36"	70"	7'–10"	4'–4"	6"
RPBPNAE–06	6"	105"	45"	108"	48"	36"	70"	10'–0"	5'–0"	6"
RPBPNAE–08	8"	105"	45"	108"	48"	36"	70"	10'–0"	5'–0"	6"
RPBPNAE–10	10"	105"	45"	108"	48"	36"	70"	10'–0"	5'–0"	6"
RPBPNAE–12	12"	144"	40"	147"	43"	48"	70"	13'–0"	5'–0"	6"

NOTE: SIZE MAY VARY DEPENDING ON MODEL OF BACKFLOW PREVENTER

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Specifications
GENERAL
The Model ERP aluminum enclosure is pre engineered to provide protection to backflow preventers, meters, pumps, and other devices installed above ground. These water conveying devices are subject to freezing and vandalism. The enclosure is designed to be installed over the equipment after installation. The enclosure is equipped with access doors to provide adequate access to the equipment.

CONSTRUCTION
The enclosure shall be manufactured from all new materials. The exterior shall be fabricated with 0.090 aluminum, continuously welded. The access door(s) shall be of like material and hinged with a continuous hinge. The door shall be equipped with a 3–point locking mechanism. The interior of the enclosure shall be structurally lined with high performance, non–wicking insulation.

HEATER
Interior heaters (if required) shall be thermostatically controlled and be mounted to the interior wall of the enclosure. A GFI receptacle shall be provided by others to provide power to the electric heater.

CREATED ON 4/5/2023 BY ----- LAST MODIFIED ON 7/14/2023 11:00 AM BY CCHILDS
PLOTTED ON 7/14/2023 11:01 AM BY Childs, Cortahondria, P:\22–41975 Backflow 2023\Revised 2023\+RPBPNAE–1–NRS

REV	DATE	BY	DESCRIPTION
A	.	.	.

PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA — A Northwest Pipe Company

WEATHERPROOF ENCLOSURE
REDUCED PRESSURE BACKFLOW PREVENTER

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DATE 04/2023

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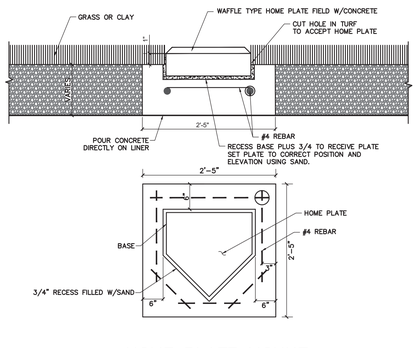
Date	2025-11-10
Job Number	23-012
Drawn	JDK/BWR
Checked	BWR
Approved	BWR

Title
WATER LINE DETAILS

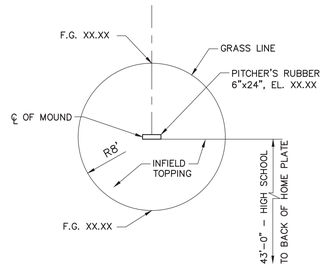
Sheet
C7.04

90% Construction Document



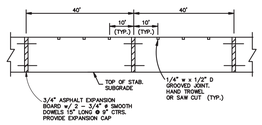
HOME PLATE MOUNT

N.T.S.



SOFTBALL PITCHING MOUND LAYOUT

N.T.S.

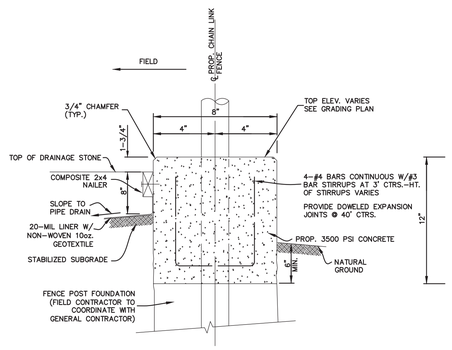


ELEVATION VIEW

LAYOUT FOR CONCRETE CURB EXPANSION & CONTRACTION JOINT

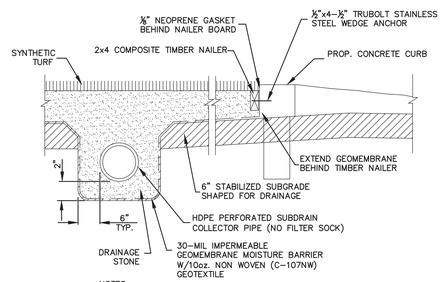
TYP. INNER AND OUTER CURBS

N.T.S.



TYPICAL SECTION AT PROPOSED CHAIN LINK FENCE

SCALE: N.T.S.

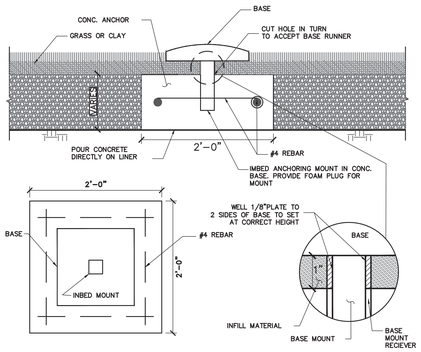


NOTES:

1. SECURE SYNTHETIC TURF NAILER USING STAINLESS STEEL STAPLES.
2. DRAINAGE STONE TO BE FLUSH WITH TOP OF NAILER.
3. STAINLESS STEEL WEDGE ANCHORS TO BE INSTALLED 2" FROM END OF 2x4 NAILER AND SPACED A MAXIMUM OF 12" ON CENTER.

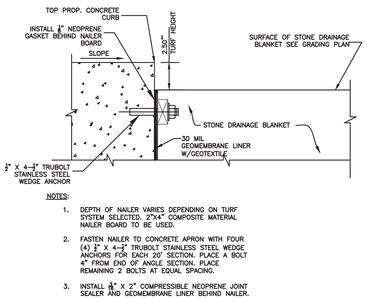
TYPICAL EDGE DETAIL

N.T.S.



BASE MOUNT

N.T.S.

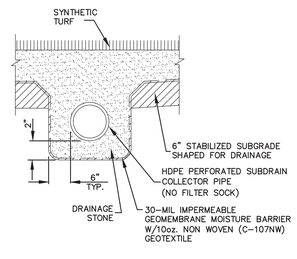


NOTES:

1. DEPTH OF NAILER VARIES DEPENDING ON TURF SYSTEM SELECTED. 2"X4" COMPOSITE MATERIAL NAILER BOARD TO BE USED.
2. FASTEN NAILER TO CONCRETE APRON WITH FOUR (4) ¼" X 4-¾" TRUBOLT STAINLESS STEEL WEDGE ANCHORS FOR EACH 20' SECTION. PLACE A BOLT 4" FROM END OF ANGLE SECTION. PLACE REMAINING 2 BOLTS AT EQUAL SPACING.
3. INSTALL ½" X 2" COMPRESSIBLE NEOPRENE JOINT SEALER AND GEOMEMBRANE LINER BEHIND NAILER.

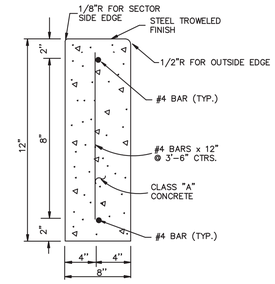
COMPOSITE NAILER DETAIL

N.T.S.



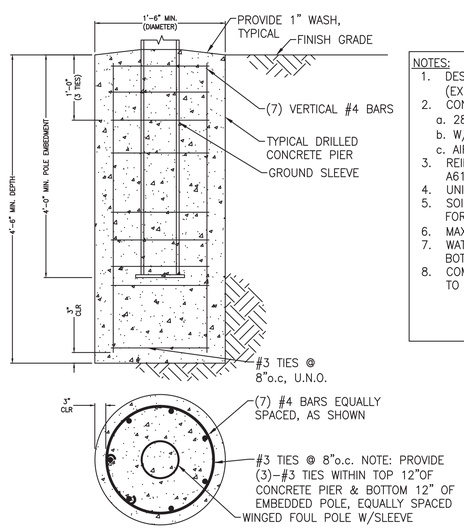
TYPICAL SUBDRAIN SECTION

N.T.S.



8"X12" CONCRETE CURB

N.T.S.

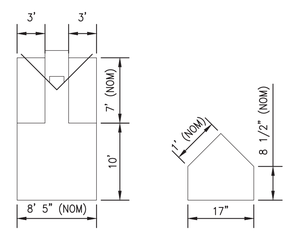


NOTES:

1. DESIGN PER ASCE 7-10 - 105 mph (EXP.B)
2. CONCRETE SHALL MEET THE FOLLOWING:
   a. 28 DAY STRENGTH = 4,000 PSI (MIN.)
   b. W/C RATIO = 0.46
   c. AIR ENTRAINMENT = 5.5 +/- 1%
3. REINFORCING BAR SHALL MEET ASTM A615, GRADE 60
4. UNIT WEIGHT OF SOIL = 115 pcf
5. SOIL INTERNAL ANGLE OF FRICTION USED FOR DESIGN = 28 DEGREES
6. MAX. FOUL POLE HEIGHT = 20'
7. WATER TABLE ASSUMED TO BE BELOW BOTTOM OF FOOTING FOR DESIGN
8. COMPACT SOIL SURROUNDING FOOTING TO 95% MODIFIED PROCTOR

SOFTBALL FOUL BALL POLE

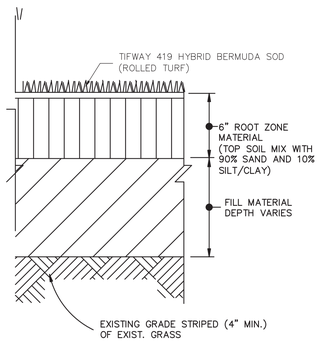
N.T.S.



HOME PLATE DETAIL HOME PLATE DETAIL

SOFTBALL BATTERS BOX

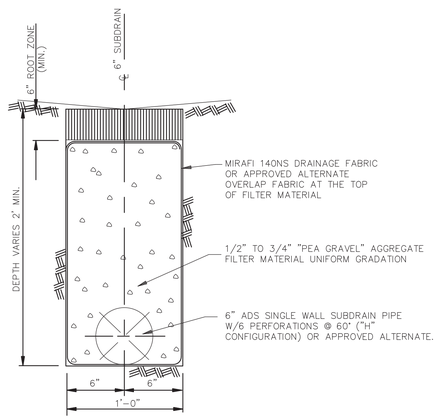
N.T.S.



NOTE:
SUITABLE FILL MATERIAL SHALL CONSIST OF THE ON-SITE EXCAVATED LEAN CLAY SOILS THAT ARE FREE OF ORGANICS AND DELETERIOUS SUBSTANCES. FILL MATERIAL SHALL BE PLACED IN 8 INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DRY DENSTIY, ASTM D-698 WITHIN ±2% OF OPTIMUM MOISTURE CONTENT.

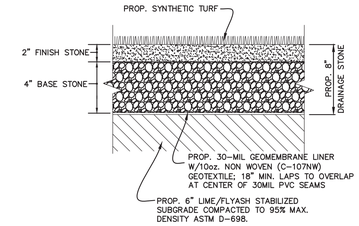
PROPOSED ROOT ZONE ATHLETIC FIELDS

N.T.S.



TYPICAL SECTION-SOFTBALL FIELD SUBDRAIN

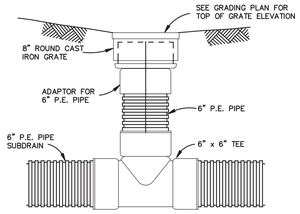
NTS



NOTE:
CONTRACTOR SHALL VERIFY LIME FLY ASH AMOUNTS WITH TESTING LAB.

TYPICAL SECTION FOR SYNTHETIC TURF

N.T.S.



INLINE DRAIN

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Title

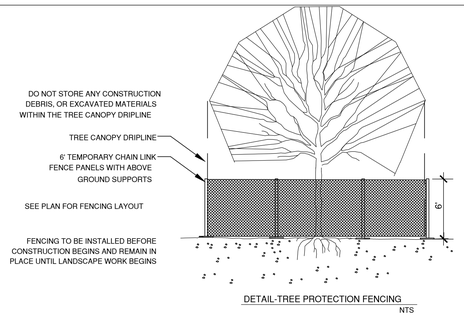
ATHLETIC DETAILS

Sheet

C7.05

90% Construction Document

BINDING EDGE



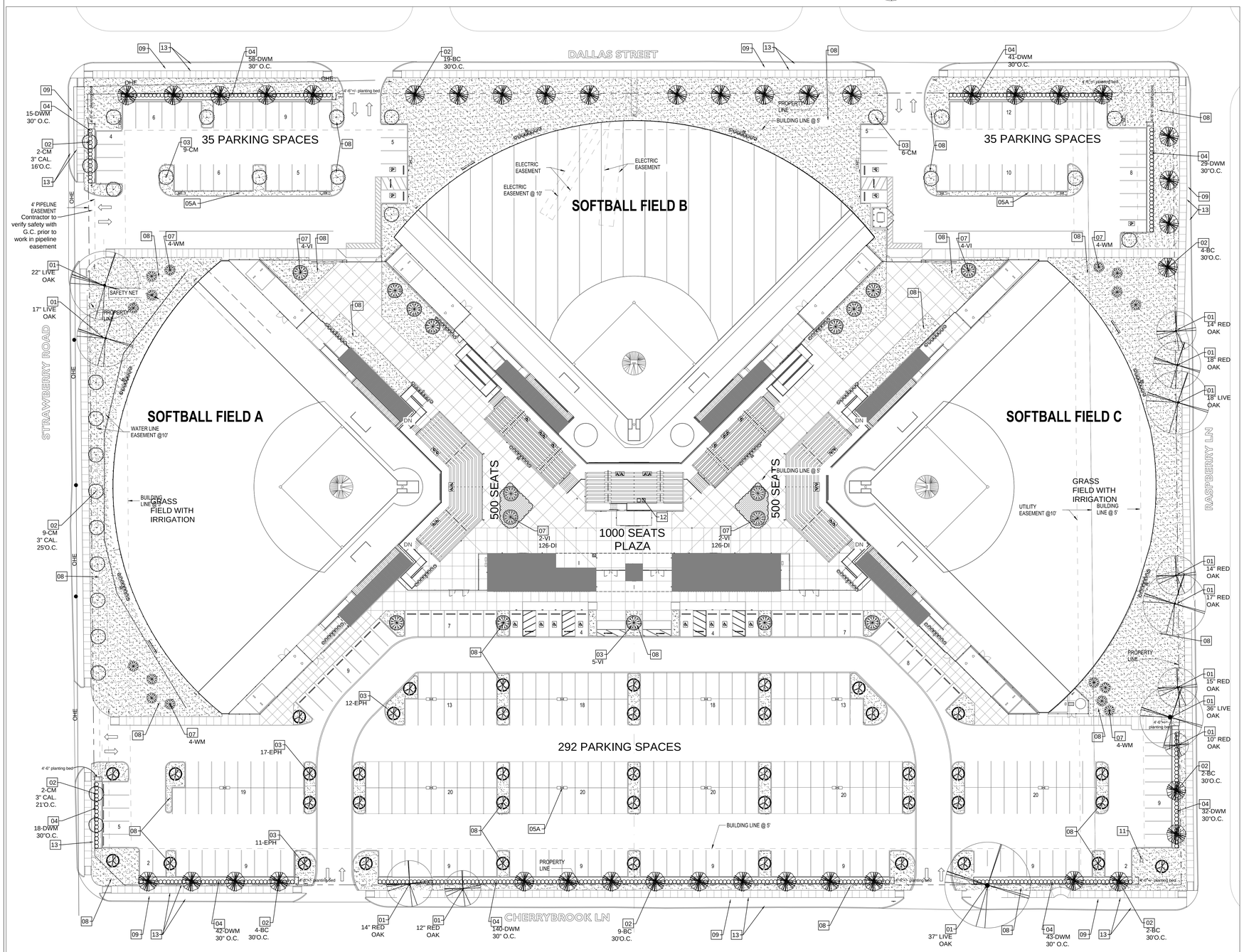
DETAIL-TREE PROTECTION FENCING
NTS

EXISTING TREE NOTES:

1. GENERAL CONTRACTOR IS REQUIRED TO HAVE A CERTIFIED ARBORIST OR DEGREED URBAN FORESTER AS A SUB-CONTRACTOR ON THIS PROJECT. NO EXCEPTIONS.
2. PRUNING FOR SPECIFIC CLEARANCE (CONSTRUCTION ACCESS OR PROPOSED IMPROVEMENTS) SHALL BE REVIEWED AND APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT.
3. TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO COMMENCEMENT OF DEMOLITION, SITE CLEARING OR CONSTRUCTION.
4. TREE PROTECTION FENCING SHALL BE CONSTRUCTED OUTSIDE THE TREE DRIP LINE OR AT BACK OF CURB AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION OF THE PROJECT.
5. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS OR EXCAVATED MATERIALS WITHIN THE TREE FENCING. RESTRICT EQUIPMENT AND FOOT TRAFFIC TO PREVENT EXCESSIVE COMPACTION OF THE SOIL AROUND THE EXISTING TREES TO REMAIN.
6. EXISTING TREE CANOPIES IN CONFLICT WITH CONSTRUCTION SHALL BE PROFESSIONALLY PRUNED TO REMOVE THE LIMBS IN QUESTION, BUT SHALL NOT UNDER ANY CIRCUMSTANCES BE BROKEN OFF WITH THE CONSTRUCTION EQUIPMENT.
7. ROOT PRUNE EXISTING TREE ROOTS ONLY WHEN IN CONFLICT WITH NEW CONSTRUCTION.
8. FENCING MAY BE REMOVED AT THE START OF THE LANDSCAPE CONTRACTORS WORK.
9. SEE SPECIFICATIONS FOR ADDITIONAL TREE CARE INCLUDED IN THE BASE PROPOSAL.

LEGEND

- CANOPY TREES — IRRIGATED: 1 TREE BUBBLER PER TREE in Lawn and planting beds
- ORNAMENTAL TREES — IRRIGATED: 1 TREE BUBBLER PER TREE in Lawn and planting beds
- SHRUBS — IRRIGATED: DRIP
- ORNAMENTAL GRASSES, PERENNIALS — IRRIGATED: POPUP SPRAYS
- SS — SOLID SOD BERMUDA IN LANDSCAPE — IRRIGATED: POPUP SPRAYS
- HYD — SEEDED/HYDROMULCH — NOT PERMANENTLY IRRIGATED BUT WILL REQUIRE TEMPORARY IRRIGATION
- EXISTING TREE TO REMAIN with 6' CLF protective fencing throughout construction



LANDSCAPE LEGEND - all new planting is irrigated with automatic underground irrigation system

STREET TREES Bald Cypress & Crape Myrtle (under power lines)

Dallas- 746.03'/40'= 19 trees required
(Provided QTY 19 - 45 gallon 2.75" caliper trees)

Raspberry - 545'/40 = 14 trees required (8 existing trees to remain)
(Provided QTY 6 - 45 gallon 2.75" caliper tree with 8 existing trees to remain)

Cherrybrook - 726.72'/40'= 18 trees required (3 existing trees to remain)
(Provided QTY 15 - 45 gallon 2.75" caliper trees with 3 existing trees to remain)

Strawberry - 524.10'/35 = 15 trees required (2 existing trees to remain)
(Provided QTY 13 - 65 gallon 3" caliper ornamental trees due to overhead power lines with 2 existing trees to remain)

EXISTING TREES TO BE PROTECTED AND REMAIN

Raspberry - Street trees	Cherrybrook - Street trees	Strawberry-Street trees
14" Red oak	37" Live oak	22" Live oak
18" Red oak	12" Red oak	17" Live oak
18" Red oak	14" Red oak	
14" Red oak		
17" Red oak		
15" Red oak		
36" Live oak		
10" Red oak		

PROTECTIVE FENCING AROUND EXISTING TREES - 6' CLF

PARKING LOT TREES

360 spaces / 10 = 36 trees required
Vitex (Provided QTY 5 - 30 gallon 2" MT caliper trees)
EP Holly (Provided QTY 41 - 45 gallon 2 ¾" caliper trees)

CrapeMyrtle (Provided QTY 15 - 65 gallon 3" caliper single trunk trees)

SHRUBS - 4'-6" wide planting bed

Dw Wax Myrtle shrubs - (Planned QTY 417 - 5 gallon)
Dallas - new shrubs for parking lot screening
Raspberry - new shrubs parking lot screening
Cherrybrook - new shrubs parking lot screening
Strawberry - new shrubs parking lot screening

A DOUBLE ROW OF SOLID SOD ALONG ALL PROPERTY LINES & ADJACENT TO ALL PAVED SURFACES WITHIN THE HYDROMULCH AREAS. ONE INCH OF GROWTH IS REQUIRED FOR HYDROMULCH AT THE TIME OF BUILDING FINAL.

ALL PROPERTY LINES MUST BE SODDED PER CITY OF PASADENA

KEYED NOTES

KEYED NOTE	DESCRIPTION
01	EXISTING TREES TO REMAIN AND PROTECTED WITH TEMP 6' CLF
02	PROPOSED STREET TREES (COP REQUIRED)
03	PROPOSED PARKING LOT TREES (COP REQUIRED)
04	PROPOSED SCREENING SHRUBS (COP REQUIRED)
05A	PROPOSED LIGHT POLE
05B	PROPOSED INLET
05C	PROPOSED FIRE HYDRANT
06	PROPOSED PLANTING BED
07	PROPOSED CANOPY OR ORNAMENTAL TREE
08	PROPOSED SOLID SOD
09	PROPOSED HYDROMULCH AREAS
10	PROPOSED IRRIGATION SLEEVE - 4" or 6"PVC (See Irrigation plan)
11	PROPOSED IRRIGATION METER (2") ISOLATION VALVE (2") BACKFLOW PREVENTER (2") FLOW SENSOR & MASTER VALVE-See Irrigation plans
12	PROPOSED IRRIGATION CONTROLLERS (2) & RAIN SENSORS (2) - See Irrigation plans
13	PROPOSED DOUBLE ROW OF SOLID SOD AROUND ALL HARD SURFACES INCLUDING ALL WALKS, DRIVES, EDGE OF BUILDINGS, ETC. WITHIN HYDROMULCH AREAS. ALSO ALL PROPERTY LINES (TYP)

PLAN
scale 1"=30'
0 15 30 75

cre8 ARCHITECTS
3815 Montrose Boulevard
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713.526.3198 fax

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED LANDSCAPE ARCHITECT MARY L. GOLDEN 1497 STATE OF TEXAS

11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	November 10, 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

Landscape Plan

Sheet

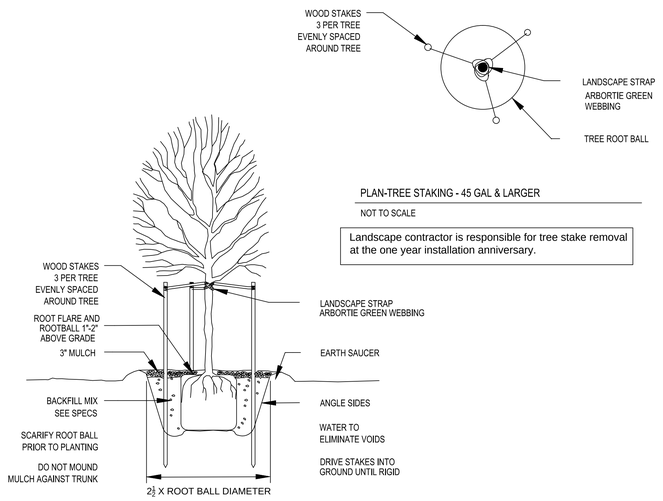
L100

Construction Documents

BINDING EDGE

BINDING EDGE

A



PLAN-TREE STAKING - 45 GAL & LARGER

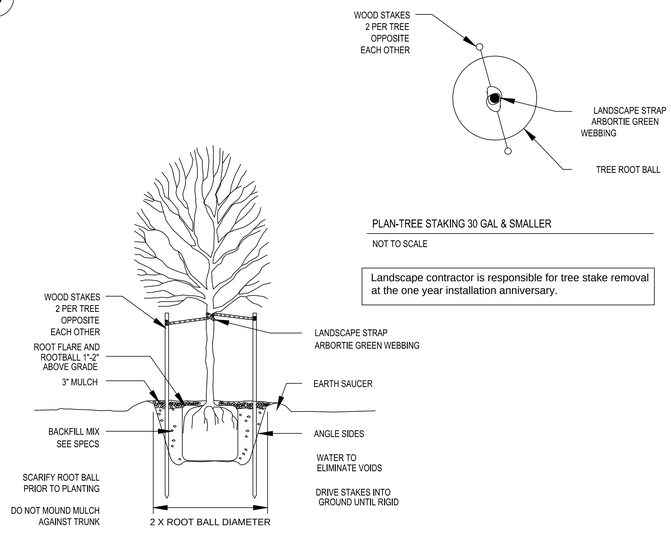
NOT TO SCALE

Landscape contractor is responsible for tree stake removal at the one year installation anniversary.

DETAIL-TREE STAKING - 45 GAL & LARGER

NOT TO SCALE

B



PLAN-TREE STAKING 30 GAL & SMALLER

NOT TO SCALE

Landscape contractor is responsible for tree stake removal at the one year installation anniversary.

DETAIL-TREE STAKING 30 GAL & SMALLER

NOT TO SCALE

C

PLANT LIST

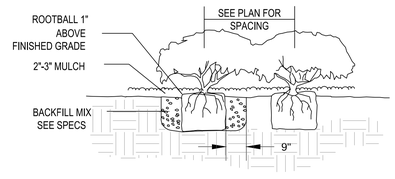
	Total	Scientific Name	Common Name	Minimum Acceptable Sizes HGT	SPRD	ROOT	CAL	Remarks
	CANOPY TREES							
BC	40	Taxodium distichum	Bald Cypress	8'-10'	4'-5'	45 GAL	2.75" CAL	Full & matching;Straight leader; evenly branched
	ORNAMENTAL TREES							
VI	17	Vitex agnus-castus	Vitex	5'-6'	4'-5'	30 GAL	2" CAL M.T.	MT Full and matching
CM	28	Lagerstroemia indica x fauriei	Natchez Crape Myrtle	10'-11'	4'-5'	65 GAL	3" CAL	'Natchez' / matching STD-TREE FORM/clear clean trunks
EPH	41	Ilex x attenuata 'EPI'	East Palatka Holly	8'-10'	4'-5'	45 GAL	2.75" CAL	'East Palatka' STD-TREE FORM/matching (clear clean trunks, tree form)
MW	16	Myrica cerifera	Wax Myrtle	5'-6'	4'-5'	30 GAL	M.T.	MT Full and matching
	SHRUBS					SPACING		
DWM	418	Myrica cerifera 'pusilla'	Dwarf Wax Myrtle	24"	24"	5 gal	30"	'pusclla' Full pots
	ORNAMENTAL GRASSES AND GROUNDCOVERS					TRIANGULAR SPACING		
DI	252	Dianella tasmanica	Dianella	12"	12"	1 gal	24"	'Variegata' Full pots

* ALL PLANTS TO BE #1 GRADE NO EXCEPTIONS.

SOLID SOD BERMUDA IN LANDSCAPE
IRRIGATED: POPUP SPRAYS

SEEDED/HYDROMULCH
NOT PERMANENTLY IRRIGATED BUT WILL REQUIRE TEMPORARY IRRIGATION

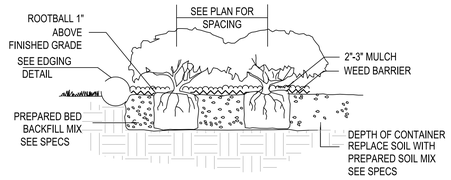
D



DETAIL - SHRUB PIT PLANTING 5 Gal and larger

NOT TO SCALE

E



DETAIL-GROUNDCOVER PLANTING 1 Gal and smaller

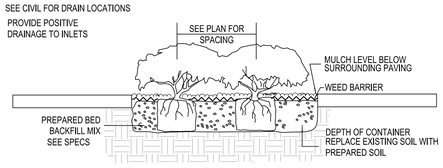
NOT TO SCALE

F

GENERAL NOTES:

1. All grass shall be Bermuda solid sod or seeded/hydromulch. All disturbed areas within the limits of this project (including right of ways) shall be included. See specifications for preparation and installation.
2. All seeded/hydromulch to be applied 60 days prior to Substantial Completion.
3. All plant material shall be #1 GRADE, No exceptions. No root bound plants accepted.
4. Prior to the start of any landscape work, the landscape contractor shall become familiar with the requirements of the landscape specification sections in the construction manual.
5. Landscape contractor to verify locations of all utility lines on the project site prior to starting any landscape related work.
6. Landscape contractor shall test subsurface/subgrade drainage of all tree and shrub pits prior to actual planting/placement of trees or shrubs. Any drainage problems shall be immediately reported to Landscape Architect.
7. Landscape contractor shall coordinate with G.C. to assure that all lawn areas are graded to drain properly.
8. Reference Civil sheets for grades and utilities. All grades to be approved by District, CE and LA before landscape begins.
9. Weed barrier to be used in all groundcover beds. See specifications for details.
10. Double row of sod at back of pavement in seed/hyrdo areas. Double row of sod around all drain inlets within seed/hyrdo areas.
11. Landscape contractor is responsible to tree staking removal at the one year installation anniversary.
12. Contractor has a 90 day exterior maintenance contract after Substantial Completion punchlist verification.

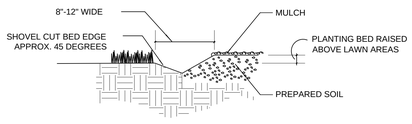
G



DETAIL-GROUNDCOVER PLANTING SURROUNDED BY PAVING

NOT TO SCALE

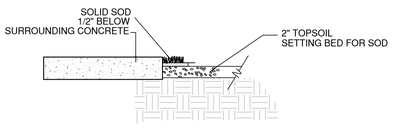
H



DETAIL - SHOVEL CUT BED EDGE

NOT TO SCALE

I



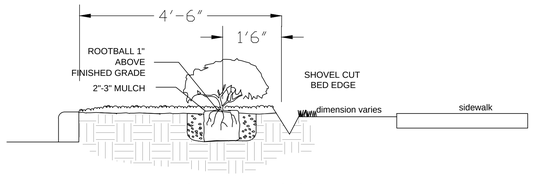
DETAIL-SOD AT CONCRETE

NOT TO SCALE

J

INTENTIONALLY BLANK

K

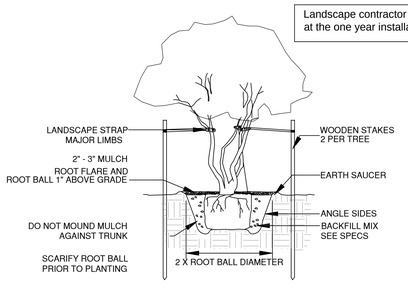


DETAIL - SHRUB BED AT BACK OF CURB

NOT TO SCALE

L

Landscape contractor is responsible for tree stake removal at the one year installation anniversary.



DETAIL-MULTI TRUNK TREE STAKING

NOT TO SCALE

BINDING EDGE

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED LANDSCAPE ARCHITECT
MARY L. GOLDEN
1997
STATE OF TEXAS

11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	November 10, 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

Planting Details

Sheet

L101

Construction Documents

BINDING EDGE

Run Set: SB 17

Water Source 1
Description: New Water Source
Type: Meter
Static Pressure: 55 (psi)
Service Line: 0.006 (psi)
Meter Loss: 0.63 (psi)

Mean System
Static Pressure: 55 (psi)
Service Line Loss: 0.006 (psi)
Meter Loss: 0.63 (psi)
Backflow Loss: 11.599 (psi)
Master Valve Loss: 0 (psi)
Filter Loss: 0 (psi)

Zone 1-48 @ 25 (GPM)
Mainline Loss: 1.6 (psi)
Valve Loss: 1.5 (psi)
Filter Loss: 0 (psi)
Lateral Loss: 2.9 (psi)
Elevation: 0 (psi)
Sprinkler Requirement: 45 (psi)

Total Design Pressure: 63.24 (psi)
Residual Pressure: -8.24 (psi)

Run Set: SB 7

Water Source 1
Description: New Water Source
Type: Meter
Static Pressure: 55 (psi)
Service Line: 0.006 (psi)
Meter Loss: 0.63 (psi)

Mean System
Static Pressure: 55 (psi)
Service Line Loss: 0.006 (psi)
Meter Loss: 0.63 (psi)
Backflow Loss: 11.599 (psi)
Master Valve Loss: 0 (psi)
Filter Loss: 0 (psi)

Zone 1-38 @ 25 (GPM)
Mainline Loss: 0.51 (psi)
Valve Loss: 1.5 (psi)
Filter Loss: 0 (psi)
Lateral Loss: 2.27 (psi)
Elevation: 0 (psi)
Sprinkler Requirement: 45 (psi)

Total Design Pressure: 61.51 (psi)
Residual Pressure: -6.51 (psi)

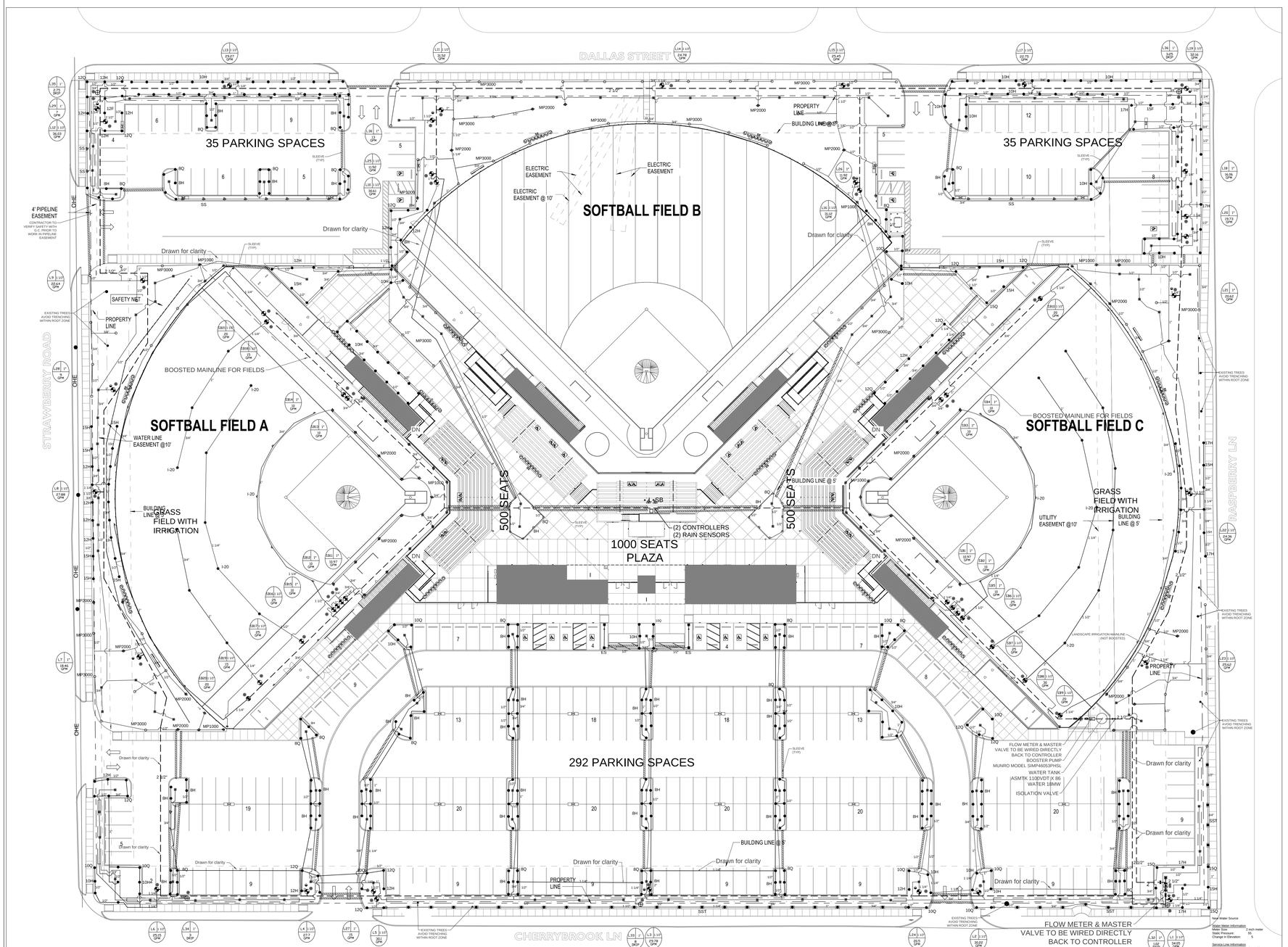
Run Set: 1-12

Water Source 1
Description: New Water Source
Type: Meter
Static Pressure: 55 (psi)
Service Line: 0.012 (psi)
Meter Loss: 0.99 (psi)

Mean System
Static Pressure: 55 (psi)
Service Line Loss: 0.012 (psi)
Meter Loss: 0.99 (psi)
Backflow Loss: 12 (psi)
Master Valve Loss: 0 (psi)
Filter Loss: 0 (psi)

Zone 1-12 @ 36.03 (GPM)
Mainline Loss: 1.6 (psi)
Valve Loss: 1.62 (psi)
Filter Loss: 0 (psi)
Lateral Loss: 0.34 (psi)
Elevation: 0 (psi)
Sprinkler Requirement: 30 (psi)

Total Design Pressure: 46.56 (psi)
Residual Pressure: 8.44 (psi)



PLAN
scale 1"=30'
0 15 30 75

Irrigation

Symbol	Description
	Hunter PCN-50 - PROS-04
	Hunter 5Q - PROS-12-PRS30-CV-R
	Hunter 8H - PROS-04-PRS30
	Hunter 8H - PROS-12-PRS30
	Hunter 8Q - PROS-04-PRS30
	Hunter 10F - PROS-04-PRS30
	Hunter 10H - PROS-04-PRS30
	Hunter 10H - PROS-12-PRS30
	Hunter 10Q - PROS-04-PRS30
	Hunter 12F - PROS-04-PRS30
	Hunter 12F - PROS-12-PRS30
	Hunter 12H - PROS-04-PRS30
	Hunter 12H - PROS-12-PRS30
	Hunter 12Q - PROS-04-PRS30
	Hunter 12Q - PROS-12-PRS30
	Hunter MPCorner 45° - PROS-04-PRS40
	Hunter MP1000 180° - PROS-04-PRS40
	Hunter MP1000 90° - PROS-04-PRS40-
	Hunter 15F - PROS-04-PRS30
	Hunter 15H - PROS-04-PRS30
	Hunter 15Q - PROS-04-PRS30
	Hunter ES-515 - PROS-04-PRS30
	Hunter LCS-515 - PROS-04-PRS30
	Hunter RCS-515 - PROS-04-PRS30
	Hunter 17H - PROS-04-PRS30
	Hunter 17Q - PROS-04-PRS30
	Hunter MP2000 180° - PROS-04-PRS40
	Hunter MP2000 360° - PROS-04-PRS40
	Hunter MP2000 90° - PROS-04-PRS40
	Hunter MP3000 360° - PROS-04-PRS40
	Hunter MP3000 180° - PROS-04-PRS40
	Hunter MP3000 90° - PROS-04-PRS40
	Hunter MP SS-530 - PROS-04-PRS30
	Hunter SST-530 - PROS-04-PRS30
	Hunter I-20-5.0 - I-20-ADJ
	Hunter I-20 H
	Febco 860 - 2" RPZ
	Hunter ICV-101G
	Hunter ICV-151G
	Hunter IC2-101
	(2) Hunter ICC2 2 Wire Controllers (L & SB)
	Hunter HQ-33DRC Purple VB Covers
	Nibco 2 1/2" isolation valve T-580-70-SSHN
	Hunter EZ Decoder
	Hunter Wireless Rain/Freeze-Clik
	HotBox Flip top Insulated Fiberglass BFP cover
	2 inch meter
	Lateral - Schedule 40 1 1/2"
	Lateral - Schedule 40 1 1/4"
	Lateral - Schedule 40 1"
	Lateral - Schedule 40 1/2"
	Lateral - Schedule 40 2 1/2"
	Lateral - Schedule 40 2"
	Lateral - Schedule 40 3/4"
	Mainline - Schedule 40 2 1/2"
	Schedule 40 6" Sleeving
	PDL-10-12 Drip Tubing
	(2) Water Boy Quantum 3100 N.O. 2"
	SCH 40 6" Sleeves

Pump Assembly Package Munro SIMP46053PHSL with1,100 gallon storage tank
Contact Lee Slater with Longhorn Inc. for sales and on site start up.
lslater@longhorninc.com
cell 820-624-5404

Valve number — XX — X — Valve size
XX GPM — Gallons per Minute

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

DOUGLAS H. GODDWIN 18830 REGISTERED LANDSCAPE ARCHITECT

11.10.25

Douglas H Goodwin

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	November 10, 2025
Job Number	23-012
Drawn	DG
Checked	Checker
Approved	Approver

Title

Irrigation Plan

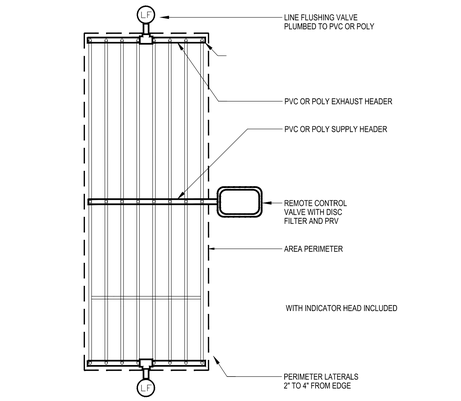
Sheet

L200

Construction Documents

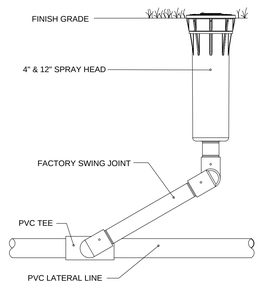
BINDING EDGE

BINDING EDGE



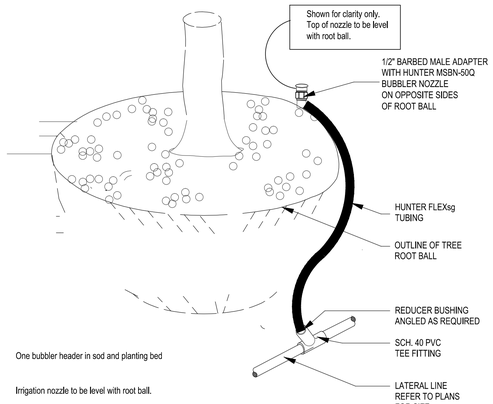
A DRIPLINE INSTALLATION

NO SCALE



B 4"&12" SWING SPRAY HEAD

NO SCALE

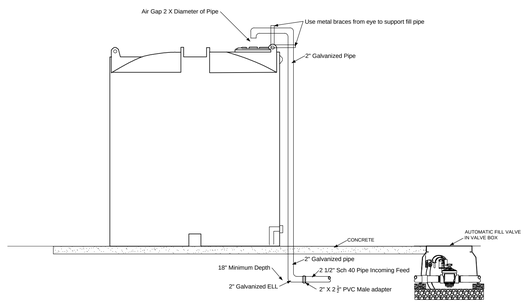


One bubbler header in sod and planting bed

Irrigation nozzle to be level with root ball.

C BUBBLER DETAIL

NO SCALE

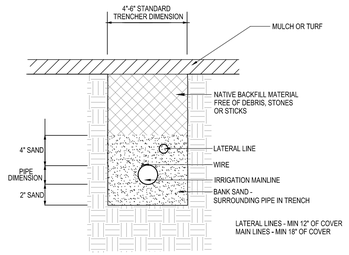


Consult Synder's Guidelines for Use and Installation prior to delivery. www.snydernet.com

1,100 Gallon Dark Olive Green Water Tank part of the ASM TK 1100VDT X 86 WATER 18MW package by Lee Slater at Longhorn Inc. Contact Lee Slater at Longhorn Inc. for Munro pump assembly sales and on site start up. lslater@longhorninc.com 830-624-5404

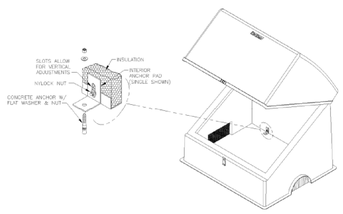
D AIR GAP ON STORAGE TANK

NO SCALE



E PIPE IN TRENCH

NO SCALE



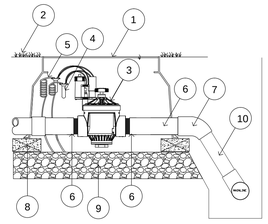
A. Insulated Fiberglass enclosure with concrete base, drain hole, hinged opening and locking clasp.
B. Enclosure is ASSE 1060 certified
C. Size to be determined by contractor for specified BFP.

F HOT BOX FIBERGLASS BACKFLOW COVER

NO SCALE

WRITE ZONE LOCATION NUMBER FOR EACH ZONE VALVE DECODER ON INSIDE OF BOX COVER LID WITH PERMANENT MARKER.

- NO FEMALE ADAPTORS
- THREADED SCH 80 NIPPLE
- FITTINGS: SCH 40 UNLESS MALE ADAPTORS, THEN SCH 80

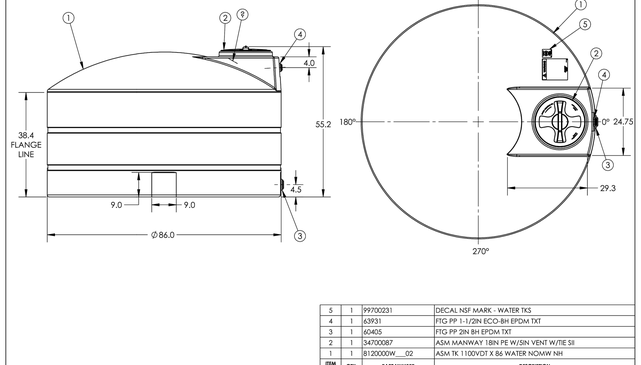


1. RAIN BIRD HEAVY DUTY PRO BOX. EXTENSIONS IF NECESSARY. SEE SPECIFICATIONS.
2. FINISH GRADE
3. REMOTE CONTROL VALVE HUNTER
4. WATER PROOF CONNECTORS (2)
5. JACKETED 2-WIRE DECODERS
6. MINIMUM 18" IN LENGTH ALL SCH 80 FITTINGS
7. MAINLINE PIPE AND FITTINGS
8. BRICK SUPPORTS (4)
9. 3/4" MINUS WASHED GRAVEL
10. 45 degree CONNECTION FROM MAINLINE PIPE AT 18" DEPTH TO VALVE AT LATERAL LINE DEPTH

G GLOBE VALVE

NO SCALE

BLACK OR DARK GREEN OLIVE



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
5	1	99700231	DECAL NSF MARK - WATER TKS
4	1	63931	FTG PP 1-1/2IN ECO-BH EPDM TXT
3	1	60405	FTG PP 2IN BH EPDM TXT
2	1	34700387	ASM MANWAY 18IN PE W/SIN VENT W/TIE SII
1	1	8120000W___02	ASM TK 1100VDT X 86 WATER NOMW NH

DO NOT SCALE DRAWING — DRAWN BY: BH

STATUS: Released

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SNYDER INDUSTRIES — TANK HOLDING CORP.

(402) 467-5221
www.snydernet.com

ASM TK 1100VDT X 86 WATER 18MW

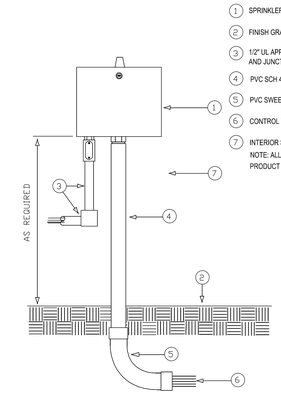
REVISION: C — SHEET 1 OF 1

PART NO.: 8120000W___03 — ENG. #: D006418

*ALL EXTERNAL PIPING MUST BE INDEPENDENTLY SUPPORTED.
*ONLY BASE FITTINGS TO BE LEFT INSTALLED AT TIME OF SHIPMENT PER SII PROCEDURE.
ALL DIMENSIONS ARE IN INCHES. NOMINAL & SUBJECT TO CHANGE WITHOUT NOTICE.
ALL DIMENSIONS ON ROTATIONAL MOLDED PARTS ARE SUBJECT TO A ± 3% TOLERANCE.

H STORAGE TANK

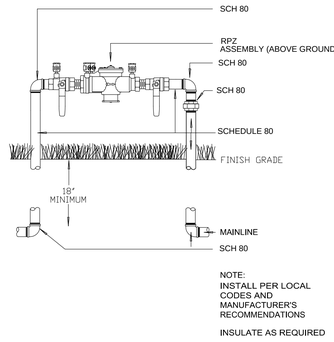
NO SCALE



THIS DRAWING IF PROVIDED FOR REFERENCE ONLY. INDIVIDUAL PROJECT REQUIREMENTS AND LOCAL CODES MAY DICTATE DIFFERENCES IN INSTALLATION PROCEDURE THAT ARE NOT IDENTIFIED HERE.

I CONTROLLER INSTALLATION

NO SCALE

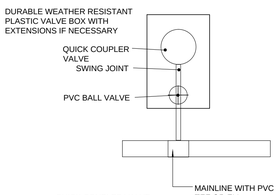


NOTE:
INSTALL PER LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS

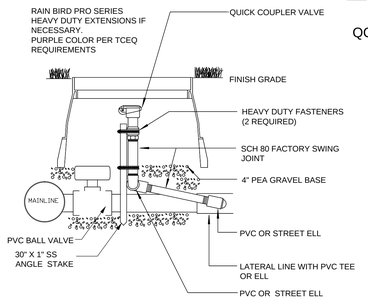
INSULATE AS REQUIRED

J REDUCED PRESSURE ASSEMBLY

NO SCALE



QCV PLAN



K QUICK COUPLER VALVE

NO SCALE

IRRIGATION NOTES:

1. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND STATIC WATER PRESSURE BEFORE TRENCHING. MINIMUM STATIC WATER PRESSURE REQUIRED FOR PROPER OPERATION IS 55 PSI AND IS TO BE CHECKED AT LEAST 10 DAYS PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. IF THE STATIC WATER PRESSURE IS LESS THAN 55 PSI, THE IRRIGATION CONTRACTOR IS TO NOTIFY THE IRRIGATION DESIGNER IMMEDIATELY.
2. LINE LOCATION IS DIAGRAMATIC IN SOME HARDSCAPE AREAS AND OUTSIDE OF PROJECT AREA FOR GRAPHIC CLARITY ONLY. IN NO CASE SHALL PVC MAIN OR LATERAL LINES BE INSTALLED OUTSIDE OF THE PROJECT LINES. ADJUST HEAD AND LINE LOCATIONS ON SITE TO ACCOMMODATE EXISTING JOB CONDITIONS AND TO ACHIEVE COMPLETE COVERAGE.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO INSTALL THE IRRIGATION SYSTEM.
4. THE IRRIGATION CONTROLLER SHALL BE LOCATED IN AN AREA SHOWN ON THE PLAN. INSTALL PER MANUFACTURES RECOMMENDATIONS. CONTROLLER REQUIRES 120V FOR OPERATION.
5. ALL UNDERPAVING SLEEVING SHALL BE SCH 40 - 6".
6. ALL SPRINKLER HEADS SHALL BE PERPENDICULAR AND EVEN WITH FINISH GRADES. ALL SPRINKLER HEADS SHALL BE INSTALLED A MINIMUM OF THREE INCHES FROM THE BACK OF CURB, SIDEWALK AND DRIVEWAYS.
7. SET ALL CONTROL VALVE, QUICK COUPLER, DOUBLE CHECK BOXES LEVEL AND EVEN WITH FINISHED GRADES.
8. VALVE WIRE SHALL BE 14 GA RAIN BIRD 2 WIRE UL-VF WIRE DIRECT BURIAL COPPER, SPLICES SHALL ONLY OCCUR ON VALVE BOXES. COIL WIRE 10 TIMES AROUND 1" PVC PIPE EVERY 100' FOR EXPANSION AND CONTRACTION PURPOSES. WIRE CONNECTORS SHALL BE USED FOR ALL WIRE SPLICES
9. THE CONTRACTOR IS REQUIRED TO MAINTAIN COMPLETE AS-BUILT DRAWINGS OF THE IRRIGATION SYSTEM AT ALL TIMES. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR IS TO SUPPLY THE OWNER WITH A COMPLETE SET OF DRAWINGS SHOWING THE EXACT LOCATION OF ALL CONTROL VALVES, QUICK COUPLER VALVES, DOUBLE CHECK ASSEMBLIES AND CONTROLLER.
10. THE CONTRACTOR IS TO MAKE HIMSELF FAMILIAR WITH ALL JOBSITE CONDITIONS BY VISITING THE SITE PRIOR TO THE INSTALLATION OF THE SYSTEM.
11. ALL PIPE SHALL HAVE A MINIMUM OF 12" OF COVER ON LATERALS AND 18" ON MAINLINES.
12. ALL PIPE SHALL BE PRIMERED BEFORE GLUING.
13. SOME PIPING LOCATIONS SHOWN FOR CLARITY.
14. CONTROLLER LOCATION TO BE VERIFIED AND CORRECT GAUGE WIRE USED.
15. USE ONLY 3m DIRECT BURY SPLICE CONNECTORS (3mDBR/Y-6).
16. 45° INTERSECTIONS ON MAINLINE; NO 90°

BINDING EDGE

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

STATE OF TEXAS
REGISTERED
DOUGLAS H. GOODWIN
1830
LANDSCAPE ARCHITECT
11.10.25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	Novemeber 10, 2025
Job Number	23-012
Drawn	DG
Checked	Checker
Approved	Approver

Title

Irrigation Details

Sheet

L201

Construction Documents

11/7/2025 2:39:10 PM

BINDING EDGE

A. GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM APPLICABLE STANDARDS OF THE FOLLOWING CODES. THE CODES LISTED SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

   2021 EDITION OF THE INTERNATIONAL BUILDING CODE

2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND REPORT ANY DISCREPANCIES OR INCONSISTENCIES FROM ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

3. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE CUT AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.

4. DO NOT SCALE THE DRAWINGS.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, AND CONSTRUCTION EQUIPMENT. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.

7. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO VERIFY THAT WORK CONFORMS TO THE CONTRACT DOCUMENTS.

8. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.

9. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

10. SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

    SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS,
    SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-LOAD BEARING PARTITIONS, SIZE AND LOCATION OF CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHAMFERS, GROOVES, INSERTS, ETC., SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, FLOOR AND ROOF FINISHES,
    STAIR FRAMING AND DETAILS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, CEILING AND EXTERIOR WALL ASSEMBLIES.

11. SEE THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

    PIPES, SLEEVES, HANGERS, TRENCHES, WALL, FLOOR AND ROOF OPENINGS, DUCT PENETRATIONS, ETC., EXCEPT AS SHOWN OR NOTED OTHERWISE
    ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES, SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOUNTS.

B. DESIGN CRITERIA

1. DEAD LOAD MATERIALS ASSUMED IN THE DESIGN ARE SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

2. AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD, WHEREVER PARTITIONS ARE USED AND LOCATION SUBJECT TO CHANGE EXCLUDING PUBLIC LOBBIES, CORRIDORS, RESTROOMS, AND PLACES OF PUBLIC ASSEMBLY.

3. LIVE LOADS:

LOCATION	UNIFORM LOAD	CONCENTRATED LOAD
ROOF	20 PSF REDUCIBLE	300 LBS
SECOND FLOOR	40 PSF REDUCIBLE	
STAIRS AND EXITS	100 PSF REDUCIBLE	300 LBS
GROUND FLR, COMMON AREAS	100 PSF REDUCIBLE	
HANDRAILS AND GUARDRAILS	50 PLF OR 200 LBS APPLIED AT TOP RAIL IN ANY DIRECTION. 50 LBS IN ANY DIRECTION APPLIED AT INTERMEDIATE RAILS.	

4. WIND LOADS

ULTIMATE WIND SPEED	148 MPH (3-SEC GUST)
NOMINAL WIND SPEED	116 MPH (3-SEC GUST)
RISK CATEGORY	III
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFF.	+/- 0.18
COMPONENTS & CLADDING	SEE PLAN

5. SEISMIC LOADS

RISK CATEGORY	III
SITE CLASS	SEE GEOTECH
IMPORTANCE FACTOR	1.25
MAPPED ACCELERATION PARAMETERS	
SS	0.068g
S1	0.039g
SPECTRAL RESPONSE COEFFICIENTS	
SDS	0.072g
SD1	0.063g
SEISMIC DESIGN CATEGORY	A

6. HANDRAILS AND GUARDRAILS (INCLUDING ATTACHMENT TO STRUCTURE) SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE REFERENCED BUILDING CODE. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

7. STAIRS SHALL BE DESIGNED BY THE STEEL FABRICATOR FOR CODE REQUIRED LOADS. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

C. FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT (AND ANY ADDENDA) PREPARED BY THE FOLLOWING COMPANY:

   COMPANY: TERRACON
   REPORT NO. 91245062
   DATED: OCTOBER 16, 2024

   ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE FOLLOWED.

2. THE FOUNDATION SYSTEM IS DESIGNED BASED ON THE FOLLOWING

   ALLOWABLE BEARING PRESSURE
   SUSTAINED LOADS 2400 PSF
   TOTAL LOADS 3600 PSF

3. THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR FOR REVIEW OF FOUNDATION BEARING SURFACE, INSPECTION OF FOUNDATION INSTALLATION, AND PLACEMENT OF REINFORCING STEEL. THE CONTRACTOR SHALL NOT PLACE CONCRETE WITHOUT INSPECTOR'S APPROVAL.

4. THE CONTRACTOR SHALL NOTIFY THE AUTHORIZED INSPECTOR 48 HOURS IN ADVANCE OF ANY MAJOR FOUNDATION POUR.

5. FORM EXPOSED FACES OF GRADE BEAMS TO A MINIMUM DEPTH OF 6" BELOW GRADE.

6. GRADE BEAM BOTTOM STEEL SHALL BE CHAIRED AT 5 FOOT MAXIMUM CENTERS USING BEAM BOLSTERS PROVIDING 3 INCH BOTTOM COVER TO REINFORCING STEEL. BEAM BOLSTERS USED SHALL BE INTENDED FOR SUPPORT ON SOIL.

7. BOTTOM BARS OF GRADE BEAM SHALL BE SPLICED (WHERE REQUIRED) AT FOOTINGS ONLY. TOP BARS SHALL BE SPLICED (WHERE REQUIRED) AT THE MIDSPAN OF THE GRADE BEAMS (U.N.O.). LAP LENGTH SHALL BE PER DETAILS ON SHEET S3.02. PROVIDE CORNER BARS TO MATCH TOP AND BOTTOM STEEL.

8. SLAB ON GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION ACI 302.1R.

9. REFER TO SPECIFICATIONS FOR VAPOR RETARDER.

10. THE GROUNDWATER LEVELS MAY FLUCTUATE SEASONALLY AND WITH CLIMATIC CHANGES. SEEPAGE OF GROUNDWATER INTO THE EXCAVATIONS IS POSSIBLE AND SEEPAGE FROM "PERCHED" WATER TRAPPED IN THE SOILS MAY ALSO OCCUR. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DEWATERING THE FOOTING EXCAVATION IF GROUNDWATER IS ENCOUNTERED.

11. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER THE FOOTING EXCAVATIONS ARE COMPLETED TO REDUCE THE POTENTIAL FOR WATER SEEPAGE AND TO MINIMIZE THE DISTURBANCE TO THE BEARING AREA. IN NO CASE, SHOULD AN EXCAVATION BE LEFT OPEN OVERNIGHT.

12. THE BEARING STRATUM OF EACH SPREAD FOOTING AND ALL STRIP FOOTINGS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR PRIOR TO POURING OF CONCRETE.

13. PROVIDE AND INSTALL TEMPLATES TO ACCURATELY SET ANCHOR BOLTS FOR STEEL COLUMNS.

14. FOOTINGS SHALL BE NEAT EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED FROM BOTTOM TO TOP OF FOOTING WITH LEAN CONCRETE OR CEMENT STABILIZED SAND. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY LEVEL BEARING SURFACE. EXCAVATIONS SHALL NOT BE LEFT OVERNIGHT UNLESS A 2 INCH UNREINFORCED SEAL (MUD) SLAB IS PLACED AT THE BOTTOM OF THE FOOTING EXCAVATION. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH COMPACTED FILL. CEMENT STABILIZED SAND, OR CONCRETE AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FILL MATERIAL, IF USED, SHALL BE COMPACTED IN 6 INCHES MAXIMUM LOOSE LIFTS TO A MINIMUM 95% OF STANDARD PROCTOR DENSITY (ASTM D 698) UNLESS SPECIFIED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

15. ANCHOR RODS SHALL COMPLY WITH ASTM F1554-A36 PLAIN, U.N.O. USE GALVANIZED ANCHOR BOLTS AT EXTERIOR LOCATIONS.

D. CONCRETE

1. ALL ASPECTS OF WORK RELATING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   ACI 301-11 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
   CRSI MANUAL OF STANDARD PRACTICE

2. STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTHS AND TYPES ARE AS FOLLOWS:

LOCATION	STRENGTH	TYPE	AGGREGATE SIZE
FOOTINGS	3000 PSI	NORMAL WT	1 1/2"
GRADE BEAMS	3000 PSI	NORMAL WT	1"
PLINTHS	3000 PSI	NORMAL WT	1"
SLAB-ON-GRADE	3000 PSI	NORMAL WT	1 1/2"
METAL DECK SLAB	3500 PSI	NORMAL WT	1"

3. THERE SHALL BE NO HORIZONTAL COLD JOINT IN ANY CONCRETE POUR.

4. CONCRETE FOR SLAB-ON-GRADE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50. ADJUST CONCRETE STRENGTH BEYOND MINIMUM SPECIFIED ABOVE TO MAINTAIN MAXIMUM WATER-CEMENT RATIO.

5. FLY ASH CONFORMING TO ASTM C618, MAY BE USED UNLESS NOTED OTHERWISE. THE MAXIMUM AMOUNT OF FLY ASH SHALL BE 25% OF THE TOTAL CEMENTITIOUS MATERIAL BY WEIGHT.

6. SUBMIT SHOP DRAWINGS TO ARCHITECT AND ENGINEER INDICATING LOCATIONS OF CONCRETE JOINTS TO REVIEW PRIOR TO PLACING CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE THE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.

7. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB-ON-GRADE, CONCRETE ON METAL DECK, FRAMED CONCRETE FLOORS, AND WALLS DO NOT REQUIRE SLEEVES UNLESS NOTED OTHERWISE ON THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE ARCHITECT AND ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH CONCRETE BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILED.

8. WITH THE EXCEPTION OF SLABS ON GRADE AND CONCRETE ON METAL DECK, THE OUTSIDE DIAMETER OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS (OTHER THAN THOSE PASSING THROUGH) SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS AND SHALL BE CENTERED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED. CONDUIT AND PIPE SHALL BE SPACED AT 3" OR 3 DIAMETERS ON CENTER, WHICHEVER IS GREATER.

9. FOR SLABS ON GRADE AND METAL DECK SLABS NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.

10. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING WHEN TEMPORARY SUPPORTS, SHORES, BACKSHORES, AND OTHER BRACING MAY BE SAFELY REMOVED.

E. REINFORCING STEEL

1. ALL ASPECTS OF WORK RELATING TO THE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:
   ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CRSI MANUAL OF STANDARD PRACTICE

2. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185, YIELD STRENGTH 65,000 PSI. WELDED DEFORMED WIRE FABRIC FOR ASTM A497, YIELD STRENGTH 70,000 PSI. ALL WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS ONLY. WHERE WELDED WIRE FABRIC IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AND PROPERLY LAPPED ONE CROSS WIRE SPACING PLUS 2 INCHES.

4. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.

5. WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE ENGINEER OF RECORD. WELDING OF REINFORCING BARS SHALL BE WITH LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF AWS D1.4.

6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

7. REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING, AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.

8. CLEAR COVERAGE OF CONCRETE REINFORCING BARS SHALL BE AS FOLLOWS:

LOCATION OF CONCRETE	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BAR	2"
#5 BAR AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, JOISTS	3/4"
BEAMS, COLUMNS (INCLUDING TIES)	1 1/2"
SLAB ON GRADE	SEE DETAILS

F. NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

1. GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS.

2. GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621. TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT CUBE TESTS, SHALL BE 5,000 PSI. MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1 INCH, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

3. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

4. GROUT SHALL BE PLACED AND HARDENED PRIOR TO POURING ANY ELEVATED CONCRETE FLOORS SUPPORTED ON THE ASSOCIATED COLUMN.

5. BASE PLATES SHALL BE LOCATED USING LEVELING NUTS OR SHIMS. SHIMS SHALL BE STEEL OR A PLASTIC/COMPOSITE PRODUCT WITH COMPRESSIVE STRENGTH GREATER THAN OR EQUAL TO MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE GROUT.

6. LEVELING NUTS MAY NOT BE USED WHERE ANCHOR RODS ARE DIRECTLY EMBEDDED IN SPREAD FOOTINGS. LEVELING NUTS MAY BE USED WHEN ANCHOR RODS ARE EMBEDDED IN PLINTHS SUPPORTED BY SPREAD FOOTINGS OR PIERS.

7. G.C. TO COORDINATE REQUIRED GROUT THICKNESS WITH SUBCONTRACTORS. IF A DIFFERENT GROUT THICKNESS THAN SHOWN ON THE DETAILS IS DESIRED SUBMIT REQUEST FOR ALTERNATE THICKNESS TO EOR.

G. STRUCTURAL STEEL

1. ALL ASPECTS OF WORK RELATING TO THE DESIGN, FABRICATION, DETAILING, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   FOURTEENTH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL LATEST EDITION OF THE ANSI/AWS D1.1

2. STRUCTURAL STEEL MATERIALS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE, CHANNELS	ASTM A992
ANGLES, PLATES, BARS	ASTM A572 GR 50
PIPES	ASTM A53 GR B
HSS (RECTANGULAR OR SQUARE)	ASTM A500 GR B (Fy = 46 KSI) OR GR C (Fy = 50 KSI)
HSS (ROUND)	ASTM A500 GR B (Fy = 42 KSI) OR GR C (Fy = 50 KSI)
ANCHOR RODS	ASTM F1554-36 U.N.O
HIGH STRENGTH BOLTS	ASTM F3125 GR A325 OR GR F1852 U.N.O.
HEADED STUD ANCHORS (HSA)	ASTM A108
DEFORMED BAR ANCHORS (DBA)	ASTM A496

3. THE DESIGN OF ALL STEEL CONNECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED BY THE FABRICATOR. CALCULATIONS SEALED BY THE FABRICATOR'S PROFESSIONAL ENGINEER MUST BE SUBMITTED IF REQUESTED.

4. STRUCTURAL STEEL NOT EXPOSED TO WEATHER SHALL BE LEFT UNPAINTED UNLESS NOTED OTHERWISE IN THE ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS.

5. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS THAT SHOP CONNECTIONS BE WELDED OR BOLTED AND THAT FIELD CONNECTIONS BE BOLTED, UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

6. ALL TYPICAL BEAM SIMPLE CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE OR SINGLE ANGLE FRAMED BEAM CONNECTIONS UNLESS NOTED OTHERWISE. SHEAR TAB CONNECTIONS MAY BE USED AT LOCATIONS WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE. SEATED BEAM CONNECTIONS SHALL NOT BE USED UNLESS INDICATED ON THE DRAWINGS. PROVIDE FULL DEPTH SHEAR TAB IF BEAM FRAMES ON ONLY ONE SIDE OF A GIRDER.

7. DESIGN CONNECTIONS OF NON-COMPOSITE BEAMS TO SUPPORT A REACTION R (UNLESS SPECIFIED OTHERWISE) EQUAL TO ONE HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE TABLE OF UNIFORM LOAD CONSTANTS IN THE AISC MANUAL.

8. ADD TO THE REACTION LISTED ABOVE, ANY LOADS OR REACTIONS OF MEMBERS SUPPORTED BY THE BEAM WITHIN THREE FEET OF BEAM END AND THE VERTICAL COMPONENTS OF FORCES IN BRACE MEMBERS FRAMING INTO THE BEAMS.

9. ALL WELDING SHALL COMPLY TO THE AMERICAN WELDING SOCIETY STANDARD (AWS D1.1). ALL WELDED JOINTS SHALL BE DETAILED AS INDICATED BY THE PREQUALIFIED JOINT DETAILS IN THE STRUCTURAL WELDING CODE. WELD LENGTHS CALLED FOR ON THE PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED. ALL WELDS SHALL USE MINIMUM E70XX ELECTRODES.

10. ALL WELDING SHALL BE PERFORMED BY A WELDER CERTIFIED IN ACCORDANCE WITH THE AWS STANDARDS.

11. MISCELLANEOUS STEEL CONNECTIONS SHALL BE WELDED ALL AROUND WITH AISC MINIMUM FILLET WELD UNLESS A LARGER WELD IS SPECIFIED. STEEL MEMBERS CONTINUOUSLY ATTACHED SHALL BE STITCH WELDED TOGETHER WITH AISC MINIMUM 2" LONG FILLET WELD AT 12" O.C. UNLESS A LARGER WELD OR DIFFERENT GAGE IS SPECIFIED.

12. ALL BOLTS SHALL BE DESIGNED AS BEARING BOLTS WITH THREADS INCLUDED IN THE SHEAR PLANE. ALL BOLTS SHALL BE NEW AND NOT RE-USED. BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER THAN NOMINAL SIZE OF BOLT USED, EXCEPT ANCHOR ROD HOLES. MINIMUM BOLT DIAMETER SHALL BE 3/4 INCH. ALL BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT POSITION, EXCEPT AT BRACES, MOMENT CONNECTIONS AND CONNECTIONS MARKED AS SLIP CRITICAL (SC) SHALL BE TIGHTENED USING LOAD INDICATING WASHERS OR TENSION BOLTS.

13. ALL STEEL EXPOSED TO WEATHER OR OUTSIDE THE BUILDING'S WATERPROOFING, SUCH AS BRICK SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION AS SPECIFIED BY THE STEEL STRUCTURES PAINTING COUNCIL (SSPC). THE ZINC COATING FOR STEEL SHAPES AND PLATES SHALL AVERAGE NOT LESS THAN 2.3 OZ. WITH NO INDIVIDUAL THICKNESS LESS THAN 2.0 OZ.

14. GALVANIZE ALL NUTS, BOLTS, AND WASHERS USED IN THE CONNECTION OF GALVANIZED STEEL.

15. GALVANIZED MEMBERS SHALL HAVE 'Z.R.C. COLD GALVANIZING COMPOUND OR APPROVED EQUIVALENT APPLIED TO FIELD WELDED CONNECTIONS. SURFACE AREAS TO RECEIVE COLD GALVANIZING COMPOUND SHALL BE CLEAN OF DIRT AND DEBRIS PRIOR TO COMPOUND APPLICATION. SEE MANUFACTURER'S LITERATURE FOR ADDITIONAL RECOMMENDATIONS.

H. STEEL ROOF DECK (WITH RIGID INSULATION BOARD)

1. THE STEEL ROOF DECK SHALL BE OF THE TYPE AND GAUGE CALLED FOR ON THE DRAWINGS. STEEL DECK SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A653 STRUCTURAL QUALITY GRADE 33 OR HIGHER. THE DESIGN, FABRICATION, AND ERECTION OF ALL ROOF DECK SHALL CONFORM TO THE SDI MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS.

2. STEEL DECK SHALL BE GALVANIZED WITH A PROTECTIVE ZINC COATING CONFORMING TO ASTM A653-G90.

3. MINIMUM BEARING OF STEEL DECK ON SUPPORTS SHALL BE 2 INCHES. ALL 3 IN DEEP STEEL DECK SHALL HAVE A MINIMUM BEARING OF 3 INCHES. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2 INCHES AND SHALL OCCUR OVER SUPPORTS. SHEETS SHALL BE ATTACHED TO SUPPORTING STEEL MEMBERS BY WELDING AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UPON COMPLETION OF ERECTION, ALL WELDS ON STEEL DECK SHALL BE DE-SLAGGED, CLEANED, AND TOUCHED UP WITH A ZINC RICH PRIMER.

4. PROVIDE ROOF DECK CONSTRUCTION WHICH IS LISTED AND CONFORMS TO THE UL FIRE RESISTANCE DIRECTORY AND BUILDING MATERIALS DIRECTORY. DECK ATTACHMENT SHALL BE INCREASED ABOVE THE MINIMUM SPECIFIED HEREIN AS REQUIRED TO ACHIEVE A CLASS 90 UPLIFT RATING.

5. DECK SUPPORTED ON COLD-FORMED STEEL FRAMING SHALL BE ATTACHED TO EACH SUPPORT MEMBER USING #12 TEK SCREWS AT ALL RIBS WHERE SIDES LAP AND EACH RIB IN BETWEEN.

6. PROVIDE MINIMUM 20 GAUGE RIDGE AND VALLEY PLATES, MINIMUM 20 GAUGE CANT STRIPS, MINIMUM 14 GAUGE SUMP PANS, MINIMUM 20 GAUGE INSIDE OR OUTSIDE CLOSURE CHANNELS, MINIMUM 20 GAUGE BUTT STRIPS AT CHANGE OF DECK DIRECTIONS, MINIMUM 20 GAUGE FILLER SHEETS, AND RUBBER CLOSURES AS REQUIRED TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF INSULATION AND ROOFING.

7. DO NOT HANG LOADS FROM METAL DECK. PROVIDE ENGINEERED STRUCTURAL SYSTEM TO HANG ALL LOADS FROM STEEL JOISTS OR BEAMS. THIS INCLUDES BUT IS NOT LIMITED TO METAL STUD SOFFIT OR CEILING FRAMING, MECHANICAL OR PLUMBING EQUIPMENT, ETC.

8. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC., FOR SIZES AND LOCATIONS OF DECK OPENINGS AND FOR DECK OPENINGS SMALLER THAN 10 INCHES NOT SHOWN ON THE STRUCTURAL DRAWINGS. ROOF OPENINGS LESS THAN 6 INCHES SQUARE OR DIAMETER DO NOT REQUIRE NO REINFORCEMENT. OPENINGS 6 INCHES TO 10 INCHES INCLUSIVE SHALL BE REINFORCED WITH A 20 GAUGE GALVANIZED PLATE WELDED TO THE DECK AT EACH CORNER AND 6 INCHES O.C. WITH 5/8 INCH DIAMETER PUDDLE WELDS OR SHEET METAL SCREWS. SEE TYPICAL DETAILS FOR FRAMING REQUIREMENTS AT OPENINGS LARGER THAN 10 INCHES. OPENINGS LARGER THAN 6 FEET SHALL BE REFERRED TO THE ENGINEER FOR FRAMING.

9. METAL DECK SPANS SHALL NOT EXCEED THE MAXIMUM CENTER TO CENTER SPANS AS REQUIRED BY SDI. WHERE POSSIBLE, ALL METAL DECK SHALL EXTEND OVER THREE OR MORE SUPPORTS. TWO SPAN DECK SHALL BE USED ONLY WHERE DECK LAYOUT DOES NOT PERMIT THE USE OF THREE SPANS. SINGLE SPAN DECK IS NOT PERMITTED.

I. CONCRETE MASONRY

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE FOLLOWING CODES AND SPECIFICATIONS:

   ACI 530-11 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

2. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, TYPE 1, GRADE N. UNLESS SPECIFIED OTHERWISE, CMU SHALL BE NORMALWEIGHT (LESS THAN 125 PCF, OVEN DRY UNIT WEIGHT). THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (F'M) SHALL BE 2,000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD.

3. UNLESS SPECIFIED OTHERWISE, ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF MASONRY UNITS, ASTM C270, TYPE S EXCEPT FOR MASONRY IN CONTACT WITH THE EARTH SHALL BE TYPE M.

4. ALL GROUT SHALL BE FINE GROUT CONTAINING SAND, PORTLAND CEMENT, AND LIME (OPTIONAL) FOR GROUT SPACES LESS THAN 2 INCHES IN ANY HORIZONTAL DIRECTION, UNLESS SPECIFIED OTHERWISE. GROUT SHALL ATTAIN A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 2500 PSI TESTED ACCORDING TO ASTM C476.

5. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR AT A MAXIMUM SPACING OF 24 FEET ON CENTERS OR 3 TIMES THE WALL HEIGHT, WHICHEVER IS LESS. REFER TO ARCHITECTURAL DRAWINGS FOR BOND PATTERN.

6. PROVIDE HORIZONTAL REINFORCING (TRUSS OR LADDER TYPE, 9 GAUGE) AT 16 INCHES ON CENTER FOR ALL CMU WALLS. REINFORCEMENT SHAL

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BINDING EDGE

K. STRUCTURAL CLAY MASONRY

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE FOLLOWING CODES AND SPECIFICATIONS:

   ACI 530-11 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

2. ALL CLAY MASONRY UNITS SHALL CONFORM TO ASTM C34. UNLESS SPECIFIED OTHERWISE. THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (F'M) SHALL BE 4000 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD. CLAY MASONRY SHALL HAVE MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 8250 PSI FOR TYPE M, OR S MORTAR. MAXIMUM SATURATION COEFFICIENT SHALL BE 0.78 TESTED ACCORDING TO ASTM C67. THE INITIAL RATE OF ABSOPRTION SHALL BE A MINIMUM OF 5 GAL./30 SQ. INCHES AND A MAXIMUM OF 30 GAL./30 SQ. INCHES TESTED ACCORDING TO ASTM C67.

3. UNLESS SPECIFIED OTHERWISE, ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF MASONRY UNITS, ASTM C270, TYPE S EXCEPT FOR MASONRY IN CONTACT WITH THE EARTH SHALL BE TYPE M.

4. ALL GROUT SHALL BE FINE GROUT CONTAINING SAND, PORTLAND CEMENT, AND LIME (OPTIONAL) FOR GROUT SPACES LESS THAN 2 INCHES IN ANY HORIZONTAL DIRECTION, UNLESS SPECIFIED OTHERWISE. GROUT SHALL ATTAIN A MINIMUM 28 DAYS COMPRESSIVE STRENGTH EQUAL TO F'M BUT SHALL NOT EXCEED 6000 PSI TESTED ACCORDING TO ASTM C476.

5. SUBMIT TEST REPORTS PERFORMED IN ACCORDANCE WITH ASTM C67 FOR EACH TYPE OF CLAY MASONRY SPECIFIED ON CONTRACT DOCUMENTS. TEST REPORTS SHALL INCLUDE:
   A. COMPRESSIVE STRENGTH
   B. MODULUS OF RUPTURE
   C. 24 HOUR COLD WATER ABSORPTION
   D. 5 HOUR BOIL WATER ABSORPTION
   E. SATURATION COEFFICIENT
   F. INITIAL RATE OF ABSORPTION
   E. EFFLORESCENCE (MASONRY EXPOSED TO WEATHER SHALL BE RATED AS "NOT EFFLORESCED"
   H. WEATHER CLASSIFICATION

6. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS OR AT A MAXIMUM SPACING OF 24 FEET ON CENTERS OR 3 TIMES THE WALL HEIGHT, WHICHEVER IS LESS. ALL MASONRY UNITS SHALL BE PLACED IN RUNNING BOND.

7. PROVIDE HORIZONTAL JOINT REINFORCING (TRUSS OR LADDER TYPE, 9 GAUGE) AT 16 INCHES ON CENTER FOR ALL CLAY MASONRY WALLS LAID IN A RUNNING BOND AND AT 8 INCHES ON CENTER FOR ALL CLAY MASONRY WALL NOT LAID IN A RUNNING BOND. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED A MINIMUM OF 6". REINFORCEMENT SHALL CONFORM TO ASTM A951 AND SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.

8. ALL HORIZONTAL REINFORCING STEEL IN BOND BEAMS AND LINTEL BLOCK UNITS SHALL BE CONTINUOUS AND UNITS SHALL BE SOLID GROUTED. PROVIDE 48 TIMES BAR DIAMETER LAP FOR HORIZONTAL REINFORCING IN BOND BEAMS. NO SPLICES SHALL BE PROVIDED FOR HORIZONTAL REINFORCING IN BLOCK LINTELS.

9. GROUT CELLS SOLID WHERE VERTICAL BARS ARE SHOWN ON THE DRAWINGS. VERTICAL BARS SHALL EXTEND FROM BOTTOM TO THE TOP OF THE WALL. AT EACH VERTICAL BAR, PROVIDE MATCHING BAR SIZE DOWEL INTO FOUNDATIONS. PROVIDE MINIMUM 48 TIMES BAR DIAMETER SPLICE FOR VERTICAL BARS WHERE REQUIRED AND/OR SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE.

10. GROUT LIFTS SHALL TERMINATE TO FORM A GROUT KEY A MINIMUM OF 1 1/2" BELOW MORTAR JOINTS WHEN SUBSEQUENT GROUT LIFTS WILL HAPPEN AFTER PREVIOUS GROUT LIFTS HAVE SET. GROUT KEYS IN BOND BEAMS OR LINTELS SHALL NOT BE PERMITTED.

11. MAXIMUM GROUT POUR HEIGHT SHALL BE 5' - 4" (8 BLOCK COURSES).

12. PROVIDE A BOND BEAM AT THE TOP OF ALL CLAY MASONRY WALLS AND REINFORCE WITH (2) - #4 CONTINUOUS UNLESS NOTED OTHERWISE. BOND BEAM REINFORCING SHALL NOT BE CONTINUED THROUGH CONTROL JOINT LOCATIONS.

13. PROVIDE BOND BEAMS AT A MAXIMUM OF 48 INCHES ON CENTER IN ALL EXTERIOR AND LOAD BEARING CLAY MASONRY WALLS NOT LAID IN A RUNNING BOND (E.G. STACK BOND) REINFORCED WITH (2) - #5 CONTINUOUS UNLESS NOTED OTHERWISE BOND BEAM REINFORCEMENT SHALL BE DISCONTINUED AT CONTROL JOINTS.

14. AT THE END OF EACH DAY AND DURING INCLEMENT WEATHER, ALL UNFINISHED MASONRY WORK SHALL BE COVERED AT THE TOP OF WALL AND EXTEND DOWN ALL SIDES A MINIMUM OF 24".

15. SEE TYPICAL DETAILS FOR INTERIOR WALL HEIGHT, BRACINGS AND REINFORCING REQUIREMENTS.

16. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH MASONRY WALLS DO NOT REQUIRE SLEEVES, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE GROUTING. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN GROUTED MASONRY IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH MASONRY LINTELS UNLESS SPECIFICALLY DETAILED.

17. ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO THREE (3) FEET WIDE, SHALL HAVE ONE VERTICAL BAR MINIMUM AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAN 3 FEET WIDE, PROVIDE TWO (2) VERTICAL BARS AT EACH SIDE OF OPENINGS. REINFORCING AT EDGES OF OPENING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.

18. ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL BAR (MINIMUM) IN GROUTED CELL. REINFORCING SHALL MATCH TYPICAL WALL VERTICAL REINFORCEMENT.

19. PROVIDE ONE VERTICAL BAR (MINIMUM) IN THE FIRST CELL EACH SIDE OF CONTROL JOINTS. REINFORCING SHALL MATCH TYPICAL VERTICAL WALL REINFORCING (UNLESS NOTED OTHERWISE) AND SHALL EXTEND TO THE TOP OF WALL.

20. FOR ANCHORED MASONRY VENEER, THE DISTANCE BETWEEN THE INSIDE FACE OF THE VENEER AND THE COLD-FORMED STEEL, MASONRY, WOOD, OR CONCRETE BACKUP SHALL BE AS SPECIFIED BY THE ARCHITECT, BUT NOT GREATER THAN 4 1/2". A MINIMUM 1 INCH AIR SPACE SHALL BE PROVIDED.

21. ANCHORED MASONRY VENEER NOT LAID IN A RUNNING BOND SHALL HAVE A JOINT REINFORCEMENT OF AT LEAST ONE WIRE, OF SIZE W1.7, SPACED AT A MAXIMUM OF 18 INCHES ON CENTER VERTICALLY.

22. SPECIAL INSPECTION, IN ACCORDANCE WITH THE BUILDING CODE REFERENCED ABOVE, SHALL BE PROVIDED FOR ALL CLAY MASONRY WALLS.

23. WHEN AMBIENT AIR TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT IMPLEMENT COLD WEATHER PROCEDURES IN ACCORDANCE WITH ACI 530.

24. WHEN AMBIENT AIR TEMPERATURE EXCEEDS 100 DEGREES FAHRENHEIT OR EXCEEDS 90 DEGRESS FAHRENHEIT WITH A WIND VELOCITY GREATER THAN 8 MPH IMPLEMENT HOT WEATHER PROCEDUCRES IN ACCORDANCE WITH ACI 530.

L. SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
   CONCRETE MIX DESIGNS AND ACCESORIES
   REINFORCING STEEL
   STRUCTURAL STEEL (*,^)
   METAL DECK
   MISCELLANEOUS STEEL
   MASONRY REINFORCING (MASONRY AND REBAR PLACEMENTS PLANS)
   LIGHT GAUGE STEEL (*,^)
   SPORTS LIGHTING
   BLEACHERS (*, ^)
   SCOREBOARD FRAMING AND FOUNDATION
   SLAB CONTRACTION JOINT LAYOUT

   ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP. ITEMS MARKED (^) SHALL HAVE STRUCTURAL CALCULATIONS SUBMITTED.

2. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

3. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.

4. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

5. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

6. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.

M. SPECIAL INSPECTION

1. ALL ASPECTS OF WORK RELATING TO SPECIAL INSPECTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   2021 INTERNATIONAL BUILDING CODE (CHAPTER 17).

2. THE OWNER'S SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE ARCHITECT (OR ENGINEER) SHALL CALL A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.

4. DUTIES OF THE OWNER'S SPECIAL INSPECTOR INCLUDE (BUT ARE NOT LIMITED TO):

   A. ACKNOWLEDGE THE SPECIAL INSPECTION AND TESTING AGREEMENT PROVIDED BY THE LOCAL JURISDICTION.

   B. THE OWNER'S SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND TO THE BUILDING OFFICIAL.

   C. THE OWNER'S SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, CONTRACTOR AND (OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.

   D. THE OWNER'S SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

5. DUTIES OF THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):

   A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.

   B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.

   C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED CONSTRUCTION DOCUMENTS AT JOBSITE.

   D. MAINTAIN AT THE JOBSITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

6. CONTINUOUS SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.

7. PERIODIC SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

8. SPECIAL INSPECTIONS AND TESTING SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK LISTED BELOW. SPECIAL INSPECTIONS AND TESTING SHALL FOLLOW THE REQUIREMENTS OF THE BUILDING AND MATERIAL CODE REFERENCES AND TABLES. IN THE EVENT OF A CONFLICT BETWEEN REFERENCES, THE OWNER'S SPECIAL INSPECTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENT.

SOILS	IBC 1705.6 AND TABLE 1705.6, APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CAST-IN-PLACE DEEP FOUNDATIONS	IBC 1705.8 AND TABLE 1705.8 APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CONCRETE	IBC 1705.3 AND TABLE 1705.3
STEEL	IBC 1705.2 AND TABLE 1705.2.3 AND AISC 360 CHAPTER N AND SDI QA/QC DOCUMENT
SHOP FABRICATION	IBC 1704.2.5 (NOT REQUIRED IF FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC 1704.2.5.1.
MASONRY	IBC 1705.4, TMS 402/ACI 530/ASCE 5 SECTION 3.1 AND TABLE 3.1.2, TMS 602/ACI 530.1/ASCE 6 SECTION 1.6 AND TABLE 4
EXPANSION/EPOXY ANCHORS	MANUFACTURER'S ICC REPORT
WIND RESISTANCE	IBC 1705.12

ABBREVIATIONS

ABBR.	ABBREVIATION
A.F.F.	ABOVE FINISH FLOOR
ADDNTL	ADDITIONAL
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
ANCH.	ANCHOR
A.B.	ANCHOR BOLT
A.R.	ANCHOR ROD
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT(URAL)
BM.	BEAM
BRG.	BEARING
BTW	BETWEEN
BOT.	BOTTOM
B.F.B.	BOTTOM FLANGE BRACE
B.O.	BOTTOM OF
BRDG.	BRIDGING
BLDG	BUILDING
C	CAMBER
CANT.	CANTILEVER
C.I.P.	CAST IN PLACE
C/C	CENTER TO CENTER
CL	CENTERLINE
CH	CHANNEL
CLR.	CLEAR(ANCE)
CFMF	COLD FORMED METAL FRAMING
COL.	COLUMN
CJP	COMPLETE JOINT PENETRATION
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONST.	CONSTRUCTION
C.J.	CONSTRUCTION / CONTRACTION JOINT
CONT.	CONTINUOUS
COORD.	COORDINATE
DL	DEAD LOAD
DBA	DEFORM BAR ANCHOR
D	DEPTH
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
DWL.	DOWEL
D.N.	DOWN
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
ENGR.	ENGINEER
EOR	ENGINEER OF RECORD
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
f'c=	28 DAY CONCRETE STRENGTH
FAB.	FABRICATE
F.S.	FAR SIDE
FIN	FINISH/FINISHED
FLR	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
Fy=	YIELD STRENGTH
GALV.	GALVANIZED
GA.	GAUGE
GEN	GENERAL
G.C.	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GR.	GRADE/GRADING
HGR.	HANGER
HSA	HEADED STUD ANCHOR
HI	HIGH
HSS	HOLLOW STRUCTURAL SECTION
HORIZ. OR (H)	HORIZONTAL
H	HORIZONTAL REACTION
IN	INCH
INFO.	INFORMATION
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
INT.	INTERIOR
JT.	JOINT
JST.	JOIST
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
Ld	DEVELOPMENT LENGTH
LWC	LIGHTWEIGHT CONCRETE
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLV	LONG LEG VERTICAL
LLH	LONG LGE HORIZONTAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LONG	LONGITUDINAL
LO	LOW
LBS	POUNDS
MFR. / MNFR.	MANUFACTURER
MAS.	MASONRY
MAX.	MAXIMUM

MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M	MOMENT
M.C.	MOMENT CONNECTION
N.S.	NEAR SIDE
NWC	NORMAL WEIGHT CONCRETE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER(S)
OPNG.	OPENING
OPP.	OPPOSITE
OPH.	OPPOSITE HAND
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OA	OVERALL
O.H.	OVERHEAD
OVS.	OVERSIZED HOLE
P	AXIAL LOAD
P.J.	PANEL JOINT
PAR.	PARALLEL
PRKG.	PARKING
PJP	PARTIAL JOINT PENETRATION
PVMT	PAVEMENT
PVG	PAVING
PERP.	PERPENDICULAR
PL.	PLATE
PLBG	PLUMBING
PT	POST-TENSION(ED)
PCF	POUNDS PER CUBIC FOOT/FEET
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT/FEET
PSI	POUNDS PER SQUARE INCH
P/C	PRECAST CONCRETE
PRELIM.	PRELIMINARY
P.L.	PROPERTY LINE
QTY	QUANTITY
R	RADIUS, REACTION, REMAINDER
REC.	RECESSED
RE:	REFER TO
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REBAR	REINFORCING BAR
REQD	REQUIRED
REV.	REVISION
R.D.	ROOF DRAIN
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SLBB	SHORT LEG BACK TO BACK
SIM.	SIMILAR
SC	SLIP CRITICAL, SHEAR CONNECTOR
SPA.	SPACING
SPEC.	SPECIFICATION
SQ.	SQUARE
SF	SQUARE FOOT/FEET
STD	STANDARD
STL	STEEL
STIFF.	STIFFENER
STIR.	STIRRUP
STRUCT.	STRUCTURE/STRUCTURAL
TEMP.	TEMPERED
THK	THICK(NESS)
t	THICKNESS, TREAD
THD	THREADED
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT. OR (V)	VERTICAL
WT.	WEIGHT
WWR	WELD WIRE REINF.
WF	WIDE FLANGE
W	WIDTH
WL	WIND LOAD
W.P.	WORK POINT
XXS	DOUBLE EXTRA STRONG
XS	EXTRA STRONG
&	AND
≈	APPROXIMATELY EQUAL
@	AT
°	DEGREE
=	EQUAL
≥	GREATER THAN or EQUAL
≤	LESS THAN or EQUAL
#	NUMBER or POUNDS
/	PER
±	PLUS or MINUS
Ø	ROUND/DIAMETER

SYMBOLS LEGEND

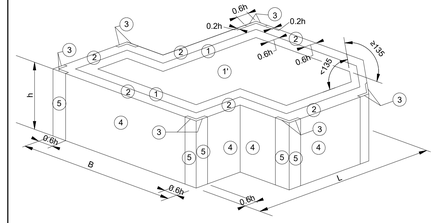
SYMBOLS	DESCRIPTION
N	NORTH ARROW
XX, S-X.XX	ENLARGE FLOOR PLAN REFERENCE OR ENLARGE DETAIL REFERENCE
XX, S-X.XX	DETAIL SECTION (STRUCTURAL)
XX/S-X.XX	BRACING ELEVATION
11 5/8", 5"	DIMENSIONS
XX/S-X.XX, XX/S-X.XX	MATCHLINE
1	REVISION NUMBER & AFFECTED AREA
LEVEL NAME, 0' - 0"	VERTICAL ELEVATION
EX: 152' - 6"	EXISTING ELEVATION
152' - 6"	NEW ELEVATION
	M.C. OR MOMENT CONNECTION
	DEPRESSION
	PANEL WALL TAG
12/36, BELL DIAMETER (IN), SHAFT DIAMETER (IN)	BELLED PIER
P1	PILE SHAFT
F3	FOOTING

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	Current Revision
S1.01	GENERAL NOTES	
S1.02	GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND SHEET INDEX	
S2.01	FOUNDATION PLAN - OVERALL	
S2.02	FOUNDATION AND FRAMING SOFTBALL HOME DUGOUT AREA A	
S2.03	FOUNDATION AND FRAMING PLAN - CONCESSIONS AND TICKET BOOTH	2
S2.04	FOUNDATION SOFTBALL HOME DUGOUT AREA B	
S2.05	FRAMING SOFTBALL HOME DUGOUT AREA B	
S2.06	FOUNDATION AND FRAMING SOFTBALL HOME DUGOUT AREA C	
S3.01	FOUNDATION DETAILS	
S3.02	FOUNDATION DETAILS	
S3.03	FOUNDATION DETAILS	2
S3.04	FOUNDATION DETAILS	
S3.05	FOUNDATION DETAILS	
S3.11	SITE FOUNDATION DETAILS	2
S3.12	SITE FOUNDATION DETAILS	1
S3.21	TYPICAL ANCHOR BOLTS & BASE PLATE DETAILS	
S4.01	TYPICAL FLOOR DETAILS	
S5.01	ROOF FRAMING DETAILS	
S6.01	TYPICAL CMU WALL DETAILS	
S6.02	TYPICAL CMU WALL DETAILS	
Grand total: 20		

ROOF PRESSURE (GROSS)						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
1'	+24, -51	+23,-51	+22,-51	+20,-51	+20,-34	+20,-27
1	+24,-88	+23,-82	+22,-74	+20,-69	+20,-55	+20,-55
2	+24,-116	+23,-109	+22,-99	+20,-91	+20,+74	+20,+74
3	+24,-158	+23,-143	+22,-123	+20,-109	+20,+74	+20,+74

WALL PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
4	+51,-55	+48,-52	+45,-50	+43,-47	+38,-42	+38,-42
5	+51,-67	+48,-63	+45,-57	+43,-52	+38,-42	+38,-42

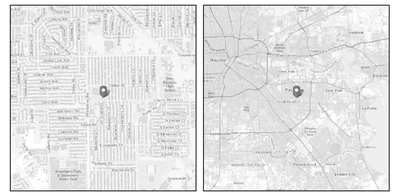


NOTES:
1. (0-10 SQ. FT.) EXAMPLE DENOTES EFFECTIVE WIND AREA.
2. + AND - SIGNS SIGNIFY PRESSURES ACTING TOWARD OR AWAY FROM THE SURFACES, RESPECTIVELY. ALL VALUES SHOWN ARE IN PSF.
3. WIND PRESSURE FOR EFFECTIVE WIND AREAS BETWEEN THE SPECIFIED RANGES MAY BE DETERMINED BY INTERPOLATION, OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
4. h = EAVE HEIGHT.
5. ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQ. FEET MAY BE DESIGNED USING MWFRS PROVISIONS.
6. VALUES SHOWN ARE BASED ON IBC 2021 / ASCE 7-16 WIND CALCULATIONS FOR COMPONENTS AND CLADDING AND ARE ULTIMATE VALUES (LRFD). VALUES SHOWN ARE FOR USE IN ASCE 7-16 LOAD COMBINATIONS SHOWN IN SECTION 2.3.1 (1.0W). IF NOMINAL (ASD) WIND LOADS ARE DESIRED OR REQUIRED FOR COMPARISON TO LOAD CAPACITIES OF FENESTRATIONS, CLADDING OR OTHER SYSTEMS, MULTIPLY THE VALUE IN THE CHART BY 0.625.
7. THE BUILDING LAYOUT SHOWN IS INTENDED TO BE SCHEMATIC, APPLY WIND PRESSURE PROVIDED SIMILARLY TO THE BUILDING(S) AT THIS PROJECT.
8. UNLESS OTHERWISE SPECIFIED, ROOF DEAD LOAD TO BE USED FOR NET UPLIFT CALCULATIONS SHALL NOT EXCEED 12 PSF. NET UPLIFT PRESSURE SHALL NOT BE LESS THAN 16 PSF.
9. ROOF ZONE 1' = INTERIOR
   ROOF ZONE 1 = FIELD
   ROOF ZONE 2 = PERIMETER
   ROOF ZONE 3 = CORNER
10. ROOF ZONE PRESSURES NOTED ABOVE ARE NOT INTENDED TO BE USED AS MINIMUM REQUIRED UPLIFT RATINGS FOR ROOF ASSEMBLIES. REFER TO SPECIFICATIONS FOR ROOF ASSEMBLY FOR WIND UPLIFT REQUIREMENTS

COMPONENTS & CLADDING PRESSURES

ASCE Hazards Report

Address: 1515 Cherrybrook Ln, Pasadena, Texas 77502
Standard: ASCE/SEI 7-16
Risk Category: III
Soil Class: undefined
Latitude: 29.677361
Longitude: -95.191002
Elevation: 31.790969019279476 ft (NAVD 88)



Wind

Results:

Wind Speed	148 Vmph
10-year MRI	77 Vmph
25-year MRI	93 Vmph
50-year MRI	106 Vmph
100-year MRI	117 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1C and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Mon Nov 11 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 3% probability of exceedance in 50 years (annual exceedance probability = 0.000588, MRI = 1,700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings in health-care facilities shall be protected against wind-borne debris as specified in Section 26.12.3.

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New Softball Complex

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PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640

STATE OF TEXAS
KHALIL TABAJA
11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
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Checked	Checker
Approved	Approver

Title

GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND SHEET INDEX

Sheet

S1.02

CONSTRUCTION DOCUMENTS

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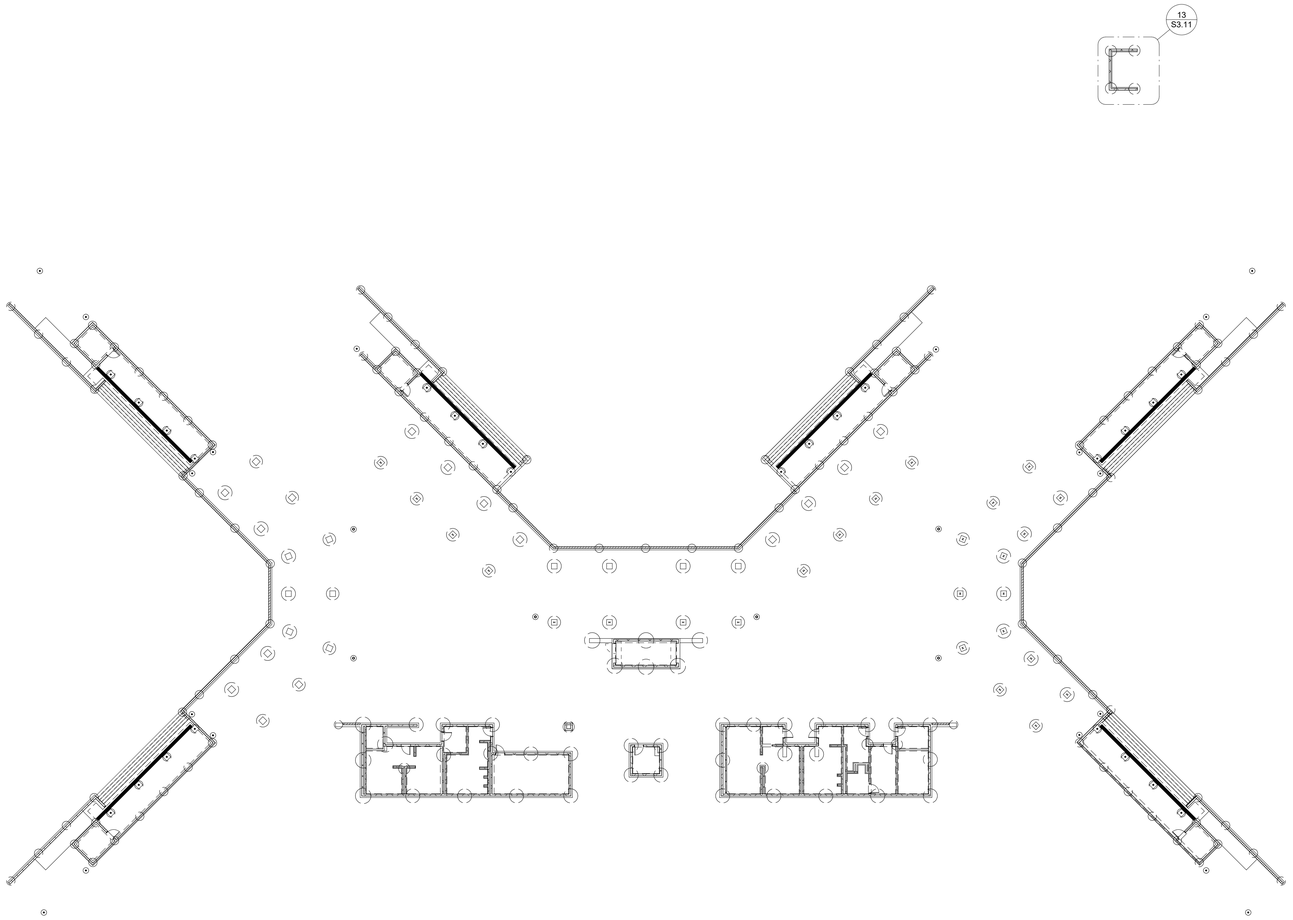

1 FOUNDATION PLAN - OVERALL
SCALE:N.T.S.

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LICENSED PROFESSIONAL ENGINEER

11/10/2025

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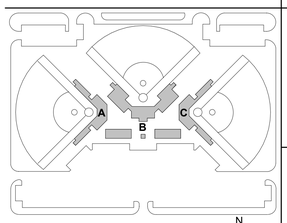

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FOUNDATION PLAN - OVERALL

Sheet

S2.01

CONSTRUCTION DOCUMENTS

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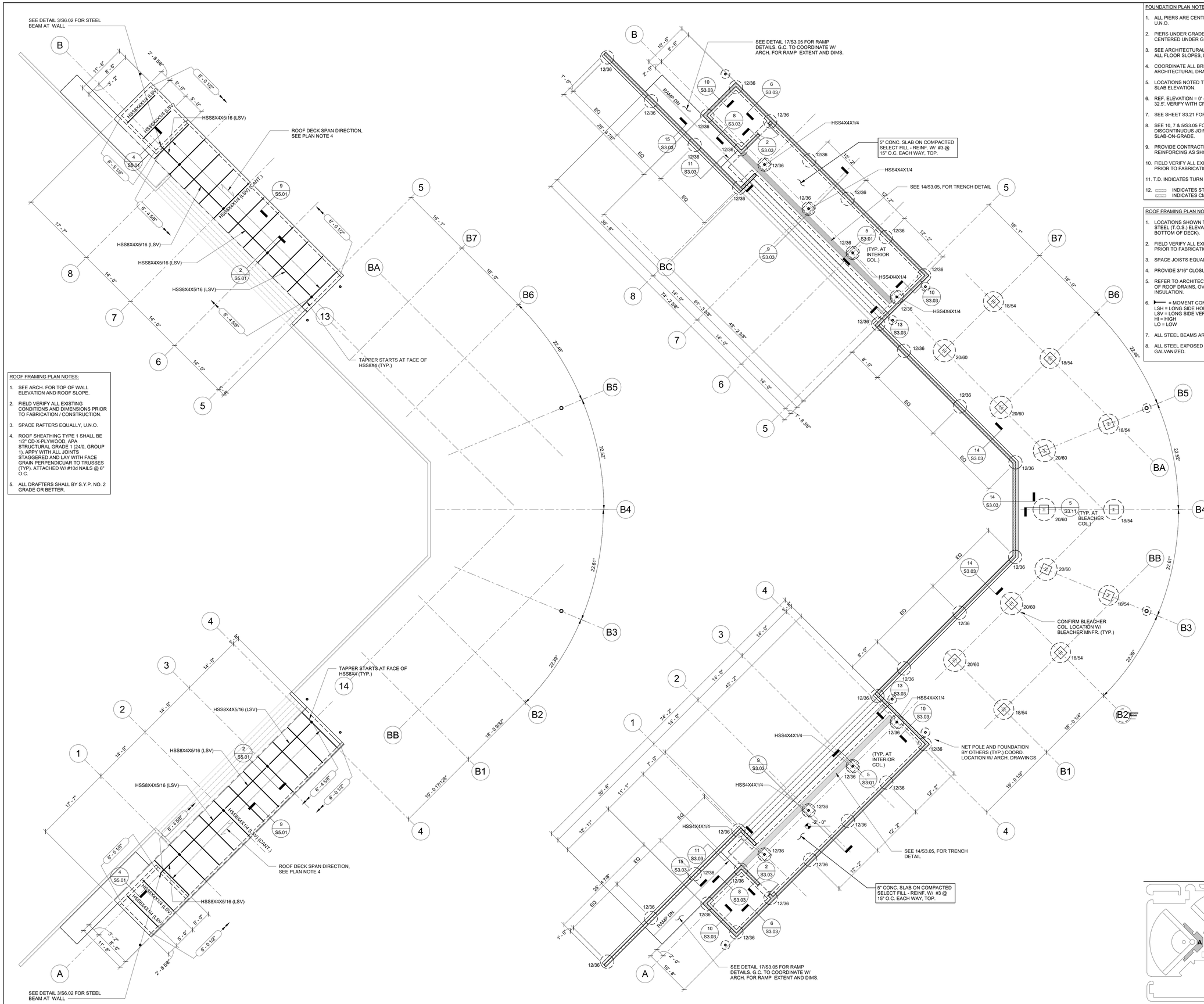

ROOF FRAMING PLAN - SOFTBALL HOME DUGOUT AREA A

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

FOUNDATION PLAN - SOFTBALL HOME DUGOUT AREA A

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

ROOF FRAMING PLAN NOTES:

1. SEE ARCH. FOR TOP OF WALL ELEVATION AND ROOF SLOPE.
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE RAFTERS EQUALLY, U.N.O.
4. ROOF SHEATHING TYPE 1 SHALL BE 1/2" CD-X-PLYWOOD, APA STRUCTURAL GRADE 1 (24/0, GROUP 1). APPY WITH ALL JOINTS STAGGERED AND LAY WITH FACE GRAIN PERPENDICUAR TO TRUSSES (TYP). ATTACHED W/ #10d NAILS @ 6" O.C.
5. ALL DRAFTERS SHALL BY S.Y.P. NO. 2 GRADE OR BETTER.

FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAMS (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
6. REF. ELEVATION = 0' - 0" CORRESPONDS TO CIVIL ELEVATION 32.5', VERIFY WITH CIVIL.
7. SEE SHEET S3.21 FOR BASE PLATES.
8. SEE 10, 7 & 5/S3.05 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.05.
10. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
11. T.D. INDICATES TURN DOWN, SEE DETAIL 17/S3.03.
12. INDICATES STRUCTURAL BRICK MASONRY WALL
    INDICATES CMU WALL

ROOF FRAMING PLAN NOTES:

1. LOCATIONS SHOWN THUS: INDICATES TOP OF STEEL (T.O.S.) ELEVATION (TOP OF STEEL = TOP OF JOIST OR BOTTOM OF DECK).
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE JOISTS EQUALLY, U.N.O.
4. PROVIDE 3/16" CLOSURE PLATES AT ALL TUBE BEAMS.
5. REFER TO ARCHITECTURAL DRAWINGS / MEP FOR LOCATIONS OF ROOF DRAINS, OVERFLOW DRAINS AND TAPERED INSULATION.
6. = MOMENT CONNECTION
   LSH = LONG SIDE HORIZONTAL
   LSV = LONG SIDE VERTICAL
   HI = HIGH
   LO = LOW
7. ALL STEEL BEAMS ARE LSV, U.N.O.
8. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

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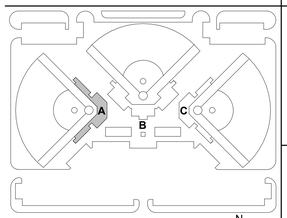
11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver



Title

FOUNDATION AND FRAMING SOFTBALL HOME DUGOUT AREA A

Sheet

S2.02

CONSTRUCTION DOCUMENTS

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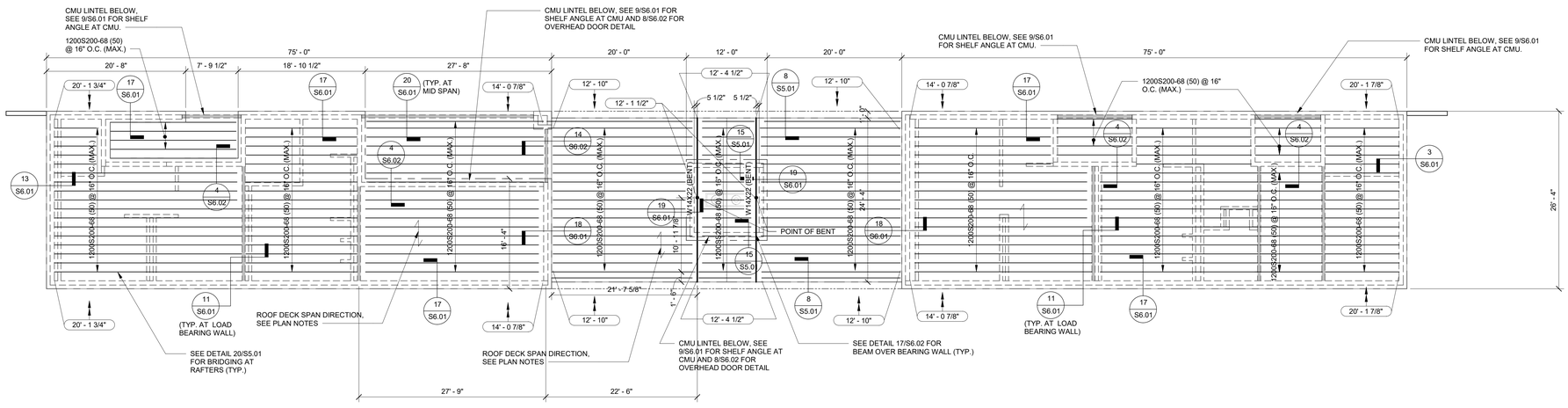
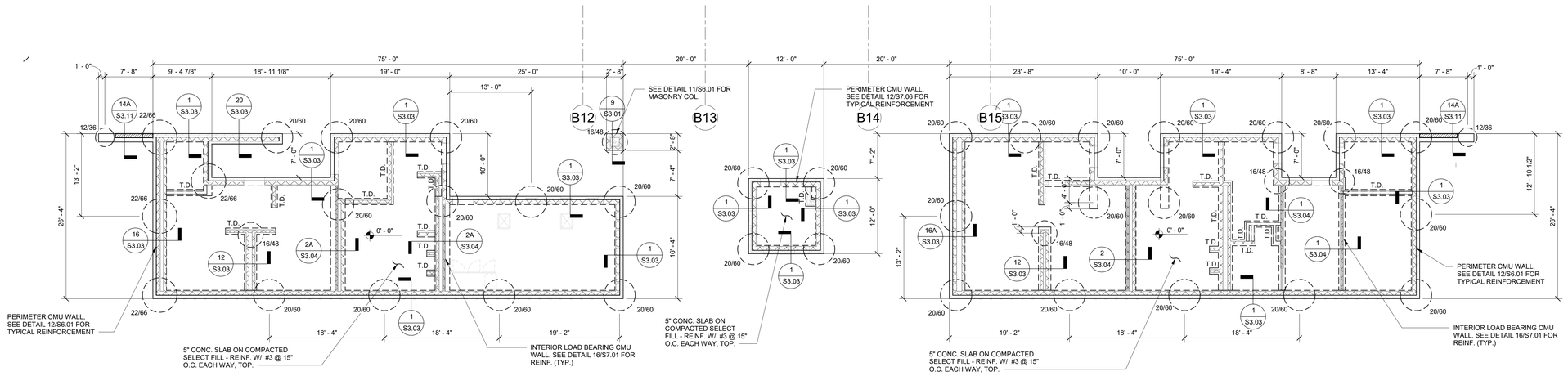


2 ROOF FRAMING PLAN - CONCESSIONS AND TICKET BOOTH

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



1 FOUNDATION PLAN - CONCESSIONS AND TICKET BOOTH

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

FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAMS (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
6. REF. ELEVATION = 0' - 0" CORRESPONDS TO CIVIL ELEVATION 32.5'. VERIFY WITH CIVIL.
7. SEE SHEET S3.21 FOR BASE PLATES.
8. SEE 10, 7 & 5/S3.05 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.05.
10. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
11. T.D. INDICATES TURN DOWN, SEE DETAIL 17/S3.03.
12. INDICATES STRUCTURAL BRICK MASONRY WALL
    INDICATES CMU WALL

ROOF FRAMING PLAN NOTES:

1. LOCATIONS SHOWN THUS: INDICATES TOP OF STEEL (T.O.S.) ELEVATION (TOP OF STEEL = TOP OF JOIST OR BOTTOM OF DECK).
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE JOISTS EQUALLY, U.N.O.
4. REFER TO ARCHITECTURAL DRAWINGS / MEP FOR LOCATIONS OF ROOF DRAINS, OVERFLOW DRAINS AND TAPERED INSULATION.
5. ROOF SHALL BE 0.6C, 22GA DECK AS MANUFACTURED BY VULCRAFT OR EQUIVALENT. SEE ARCHITECTURAL DRAWINGS FOR INSULATION, ROOFING, ETC. FASTEN DECK USING #12 SELF DRIVING SCREWS:
   a. PERPENDICULAR BEARING: 36/7 PATTERN.
   b. PARALLEL BEARINGS AND EDGE: AT 6"O.C.
   c. SIDE SEAMS: #10 TEK SCREWS AT 12"O.C.

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11/10/2025

Revision Schedule

NO.	ISSUE	DATE
2	CITY REVIEW COMMENTS 03	10/03/2025

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
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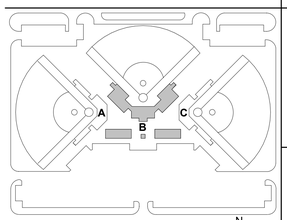
Approved	Approver



FOUNDATION AND FRAMING PLAN - CONCESSIONS AND TICKET BOOTH

Sheet

S2.03

CONSTRUCTION DOCUMENTS

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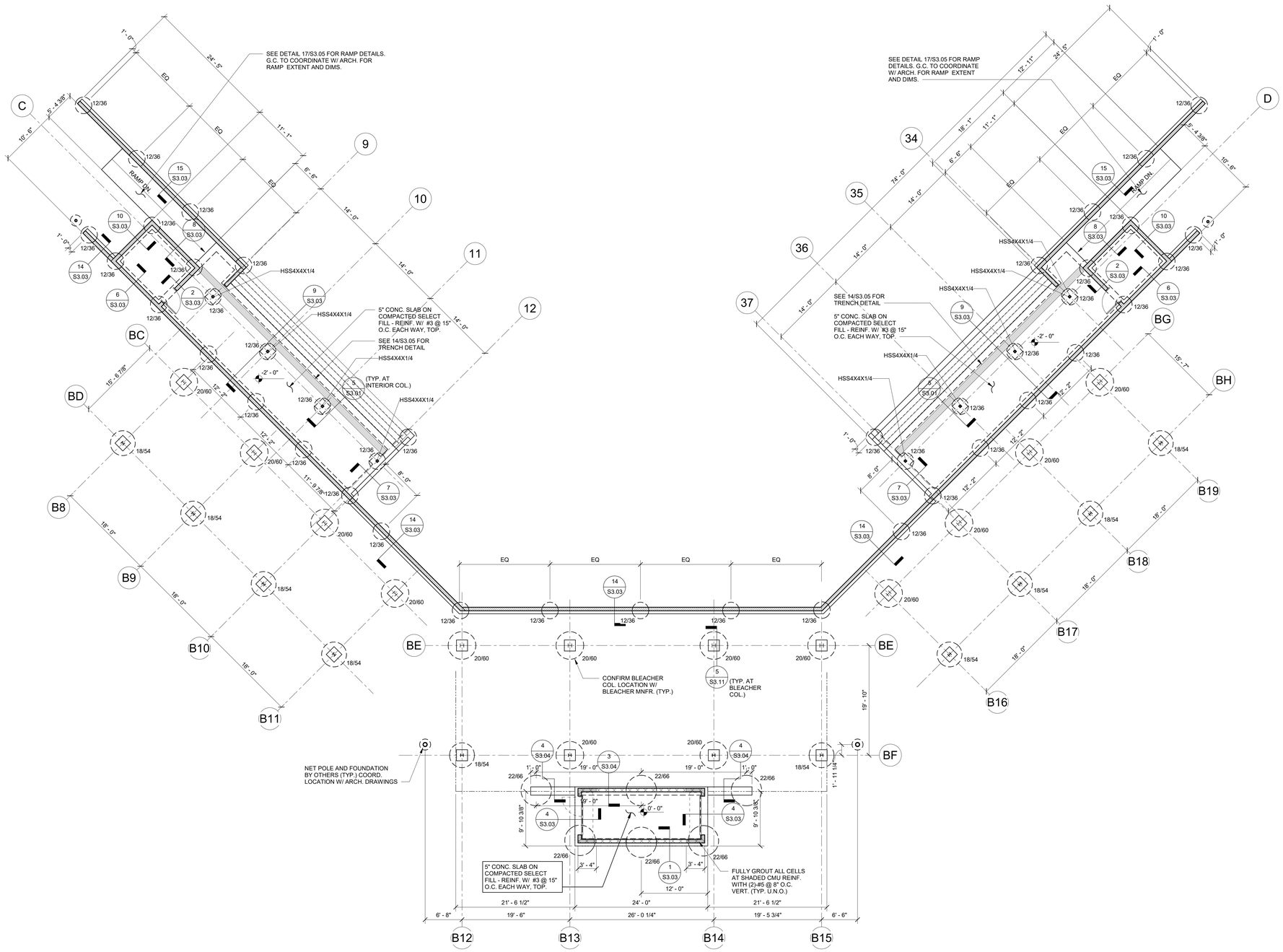
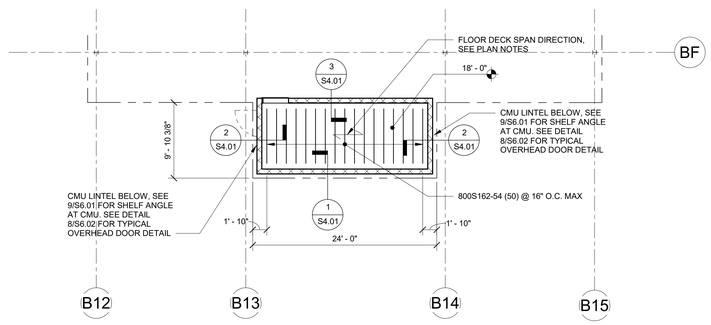


1 FOUNDATION PLAN - SOFTBALL HOME DUGOUT AREA B

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



2 SECOND FLOOR FRAMING PLAN - PRESS BOX

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

FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAMS (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
6. REF. ELEVATION = 0' - 0" CORRESPONDS TO CIVIL ELEVATION 32.5', VERIFY WITH CIVIL.
7. SEE SHEET S3.21 FOR BASE PLATES.
8. SEE 10, 7 & 5/S3.05 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.05.
10. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
11. T.D. INDICATES TURN DOWN, SEE DETAIL 17/S3.03.
12. INDICATES STRUCTURAL BRICK MASONRY WALL
    INDICATES CMU WALL

ROOF FRAMING PLAN NOTES:

1. LOCATIONS SHOWN THUS: INDICATES TOP OF STEEL (T.O.S.) ELEVATION (TOP OF STEEL = TOP OF JOIST OR BOTTOM OF DECK).
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE JOISTS EQUALLY, U.N.O.
4. PROVIDE 3/16" CLOSURE PLATES AT ALL TUBE BEAMS.
5. REFER TO ARCHITECTURAL DRAWINGS / MEP FOR LOCATIONS OF ROOF DRAINS, OVERFLOW DRAINS AND TAPERED INSULATION.
6. = MOMENT CONNECTION
   LSH = LONG SIDE HORIZONTAL
   LSV = LONG SIDE VERTICAL
   HI = HIGH
   LO = LOW
7. ALL TUBE BEAMS ARE LSV, U.N.O.
8. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

PLAN NOTES:

1. TOP OF CONCRETE ELEVATION = SEE PLAN
2. SPACE JOISTS EQUALLY U.N.O.
3. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
4. FLOOR SHALL BE 2" NORMAL WEIGHT CONCRETE OVER THE FLUTES OF 9/16" x 22 GA TYPE C STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT TO TOTAL THICKNESS = 2 1/2". REINFORCE CONCRETE WITH W2.9XW2.9 WIRE MESH AT 6" O.C. EACH WAY. PLACE WIRE PARALLEL TO IN THE OUTSIDE LAYER. WELD DECK USING 5/8"Ø NET EFFECTIVE PUDDLE WELDS:
   a. PERPENDICULAR BEARING : 36/4 PATTERN.
   b. PARALLEL BEARING AND EDGE : AT 12" O.C.
   c. SIDE SEAMS : SEAM WELDS AT 12" O.C.

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New Softball Complex

1515 Cherrybrook Lane
Pasadena, Texas 77502
PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640
STATE OF TEXAS
KHALIL TABAJA
103172
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PROFESSIONAL ENGINEER
11/10/2025

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Checked	Checker
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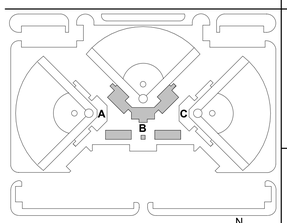
FOUNDATION SOFTBALL HOME DUGOUT AREA B

Sheet

S2.04

CONSTRUCTION DOCUMENTS



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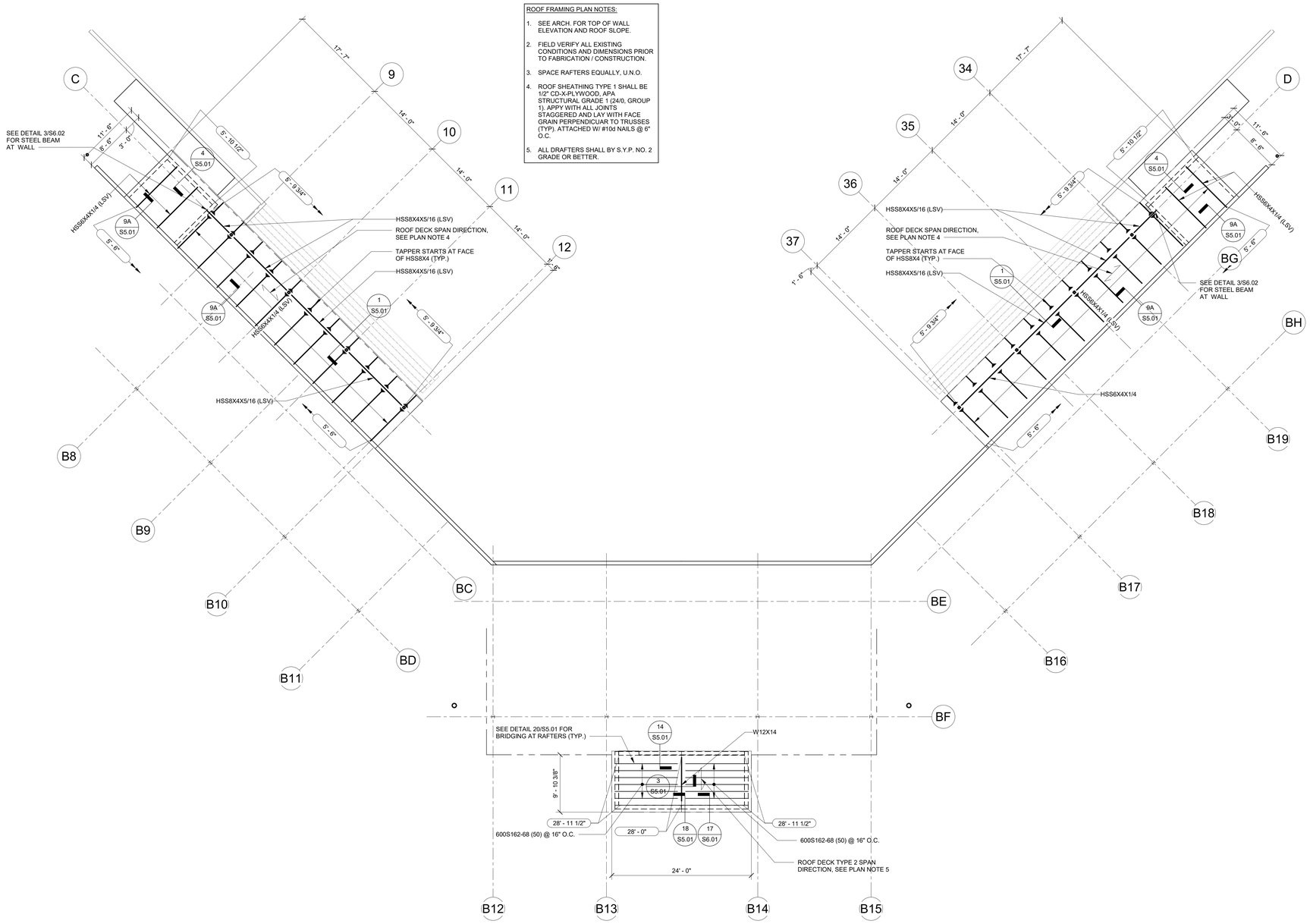
ROOF FRAMING PLAN NOTES:

1. SEE ARCH. FOR TOP OF WALL ELEVATION AND ROOF SLOPE.
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE RAFTERS EQUALLY, U.N.O.
4. ROOF SHEATHING TYPE 1 SHALL BE 1/2" CD-X-PLYWOOD, APA STRUCTURAL GRADE 1 (24/0, GROUP 1). APPY WITH ALL JOINTS STAGGERED AND LAY WITH FACE GRAIN PERPENDICUAR TO TRUSSES (TYP). ATTACHED W/ #10d NAILS @ 6" O.C.
5. ALL DRAFTERS SHALL BY S.Y.P. NO. 2 GRADE OR BETTER.



1 ROOF FRAMING PLAN - SOFTBALL HOME DUGOUT AREA B
SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. LOCATIONS SHOWN THUS: ( ) INDICATES TOP OF STEEL (T.O.S.) ELEVATION (TOP OF STEEL = TOP OF JOIST OR BOTTOM OF DECK).
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE JOISTS EQUALLY, U.N.O.
4. PROVIDE 3/16" CLOSURE PLATES AT ALL TUBE BEAMS.
5. ROOF TYPE 2 SHALL BE 0.6C, 22GA DECK AS MANUFACTURED BY VULCRAFT OR EQUIVALENT. SEE ARCHITECTURAL DRAWINGS FOR INSULATION, ROOFING, ETC. FASTEN DECK USING #12 SELF DRIVING SCREWS:
   a. PERPENDICULAR BEARING: 36/7 PATTERN.
   b. PARALLEL BEARINGS AND EDGE: AT 6"O.C.
   c. SIDE SEAMS: #10 TEK SCREWS AT 12"O.C.
6. REFER TO ARCHITECTURAL DRAWINGS / MEP FOR LOCATIONS OF ROOF DRAINS, OVERFLOW DRAINS AND TAPERED INSULATION.
7. ▶——— = MOMENT CONNECTION
   LSH = LONG SIDE HORIZONTAL
   LSV = LONG SIDE VERTICAL
   HI = HIGH
   LO = LOW
8. ALL STEEL BEAMS ARE LSV, U.N.O.
9. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

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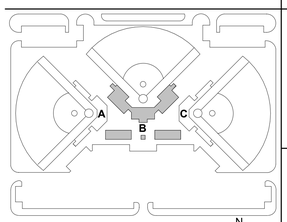

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FRAMING
SOFTBALL HOME
DUGOUT AREA B

Sheet

S2.05

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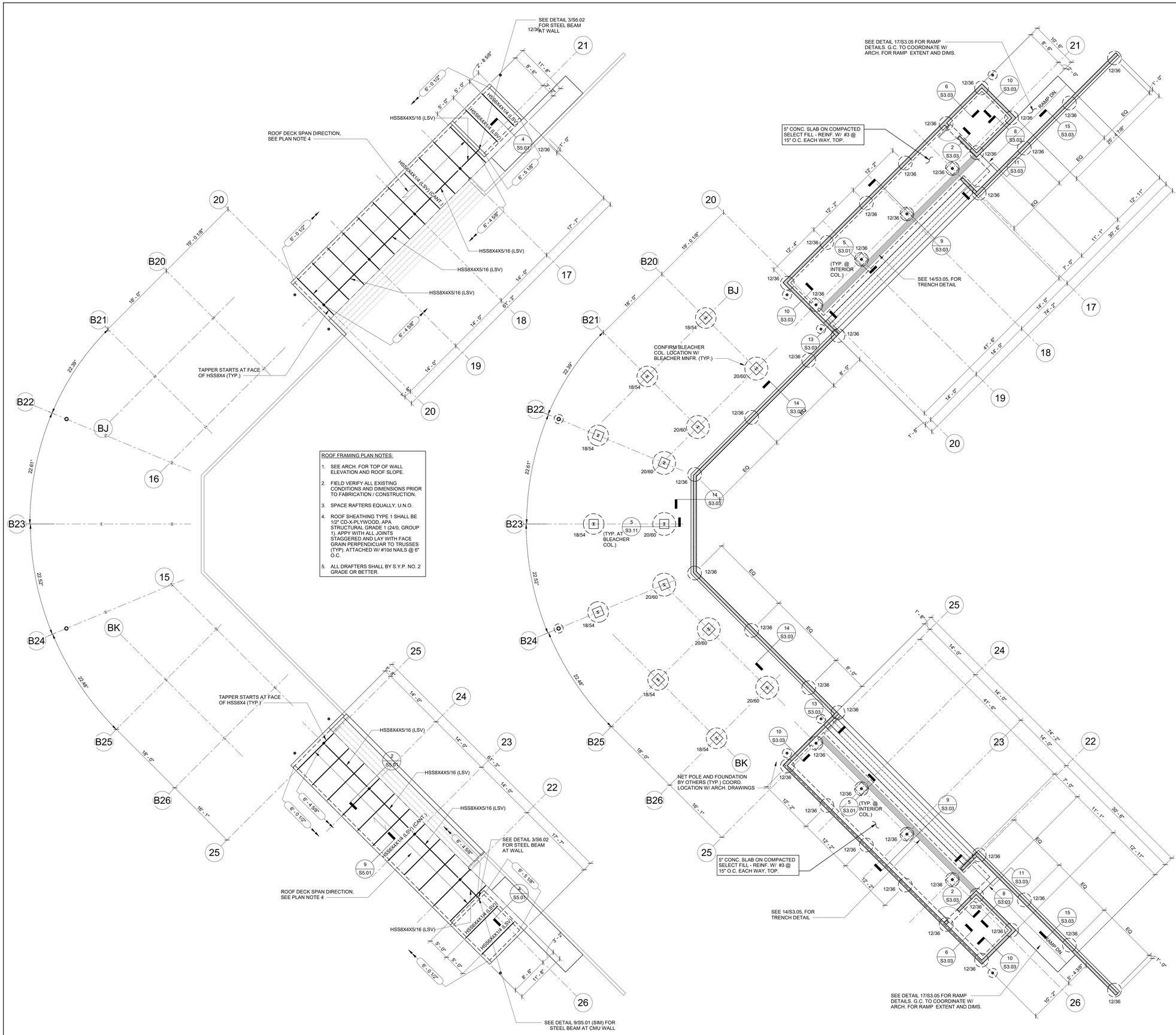

ROOF FRAMING PLAN NOTES:

1. SEE ARCH. FOR TOP OF WALL ELEVATION AND ROOF SLOPE.
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE RAFTERS EQUALLY, U.N.O.
4. ROOF SHEATHING TYPE 1 SHALL BE 1/2" CD-X-PLYWOOD, APA STRUCTURAL GRADE 1 (24/0, GROUP 1). APPY WITH ALL JOINTS STAGGERED AND LAY WITH FACE GRAIN PERPENDICUAR TO TRUSSES (TYP). ATTACHED W/ #10d NAILS @ 6" O.C.
5. ALL DRAFTERS SHALL BY S.Y.P. NO. 2 GRADE OR BETTER.

FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAMS (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" INDICATES TOP OF SLAB ELEVATION.
6. REF. ELEVATION = 0' - 0" CORRESPONDS TO CIVIL ELEVATION *32.5'*. VERIFY WITH CIVIL.
7. SEE SHEET S3.21 FOR BASE PLATES.
8. SEE 10, 7 & 5/S3.05 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.05.
10. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
11. T.D. INDICATES TURN DOWN, SEE DETAIL 17/S3.03.
12. INDICATES STRUCTURAL BRICK MASONRY WALL
    INDICATES CMU WALL

ROOF FRAMING PLAN NOTES:

1. LOCATIONS SHOWN THUS: INDICATES TOP OF STEEL (T.O.S.) ELEVATION (TOP OF STEEL = TOP OF JOIST OR BOTTOM OF DECK).
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
3. SPACE JOISTS EQUALLY, U.N.O.
4. PROVIDE 3/16" CLOSURE PLATES AT ALL TUBE BEAMS.
5. REFER TO ARCHITECTURAL DRAWINGS / MEP FOR LOCATIONS OF ROOF DRAINS, OVERFLOW DRAINS AND TAPERED INSULATION.
6. = MOMENT CONNECTION
   LSH = LONG SIDE HORIZONTAL
   LSV = LONG SIDE VERTICAL
   HI = HIGH
   LO = LOW
7. ALL TUBE BEAMS ARE LSV, U.N.O.
8. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

2 ROOF FRAMING PLAN - SOFTBALL HOME DUGOUT AREA C1
SCALE: 1/8" = 1'-0"

1 FOUNDATION PLAN - SOFTBALL HOME DUGOUT AREA C
SCALE: 1/8" = 1'-0"

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FOUNDATION AND FRAMING SOFTBALL HOME DUGOUT AREA C

Sheet

S2.06

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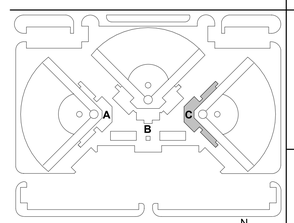

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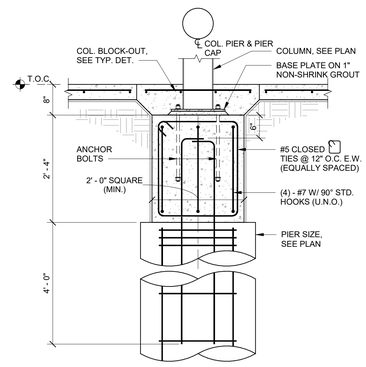
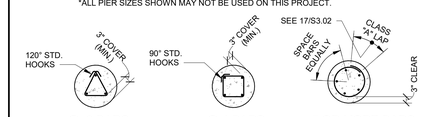


TYPICAL DETAIL
INTERIOR COLUMN AT LARGE SHAFT

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

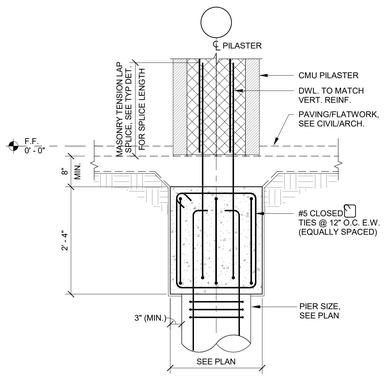
DRILLED PIER VERTICAL REINFORCEMENT SCHEDULE		
SHAFT DIAMETER (INCHES)	VERTICAL REINFORCEMENT	TIES (USE #3 @ 12" U.N.O.)
12	3 - #5	#3 @ 10"
14, 16	4 - #5	#3 @ 10"
18, 20	4 - #6	
22, 24, 26	5 - #7	
28, 30	5 - #8	
36	5 - #9	

*ALL PIER SIZES SHOWN MAY NOT BE USED ON THIS PROJECT.



SHAFT BAR PLACEMENT PLANS

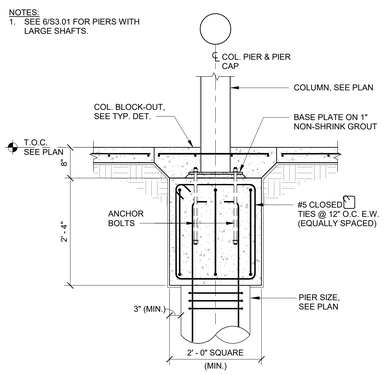
2 SCALE: N.T.S.



TYPICAL DETAIL AT CMU PILASTER CAP

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

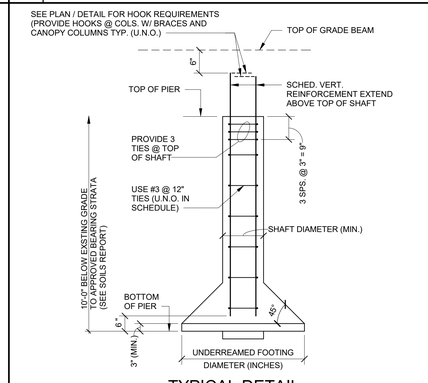
NOTES:
1. SEE 6/S3.01 FOR PIERS WITH LARGE SHAFTS.



TYPICAL DETAIL
INTERIOR COLUMN WITH PIER CAP

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

SEE PLAN / DETAIL FOR HOOK REQUIREMENTS (PROVIDE HOOKS @ COLS. W/ BRACES AND CANOPY COLUMNS TYP. (U.N.O.)



TYPICAL DETAIL
DRILLED PIER

1 SCALE: N.T.S.

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FOUNDATION DETAILS

Sheet

S3.01

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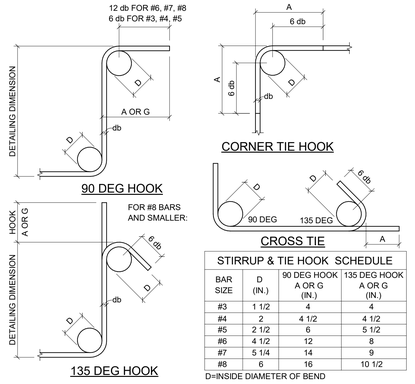
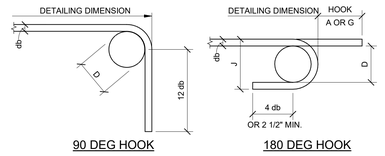


STIRRUP & TIE HOOK SCHEDULE			
BAR SIZE	D (IN.)	90 DEG HOOK A OR G (IN.)	135 DEG HOOK A OR G (IN.)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2
#6	4 1/2	12	8
#7	5 1/4	14	9
#8	6	16	10 1/2

D=INSIDE DIAMETER OF BEND

20 STIRRUP AND TIE HOOK TYPES

SCALE: N.T.S.



RECOMMENDED END HOOKS, ALL GRADES				
BAR SIZE	FINISHED BEND DIAMETER D, (IN.)	180 DEG HOOKS		90 DEG HOOKS
		A OR G, (IN.)	J, (IN.)	A OR G, (IN.)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

D = INSIDE DIAMETER OF BEND

19 END HOOK TYPES

SCALE: N.T.S.

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION
GRADE 60 (UNCOATED) REINFORCEMENT
(NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c = 5000		F'c = 6000		F'c = 7000		F'c = 8000		F'c = 9000		F'c = 10000	
	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb
#3	9	6	8	6	7	6	6	6	6	6	6	6	6	6	6	6
#4	11	8	10	7	9	6	8	6	8	6	7	6	7	6	6	6
#5	14	10	12	9	11	8	10	7	9	7	9	6	8	6	8	6
#6	17	12	15	10	13	9	12	9	11	8	11	8	10	7	9	7
#7	20	14	17	12	15	11	14	10	13	9	12	9	12	8	11	8
#8	22	16	19	14	17	12	16	11	15	11	14	10	13	9	12	9
#9	25	18	22	15	20	14	18	13	17	12	16	11	15	10	14	10
#10	28	20	25	17	22	16	20	14	19	13	18	12	17	12	16	11
#11	31	22	27	19	24	17	22	16	21	15	19	14	18	13	17	12



NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Lhb = TENSION DEVELOPMENT LENGTH.
3. Ldh = Lhb, UNLESS CONDITIONS OF ITEM 4 ARE SATISFIED.
4. Ldh = 0.7 Lhb, WHEN SIDE COVER NORMAL TO PLANE OF HOOK IS NOT LESS THAN 2 1/2 INCHES AND FOR 90° HOOK, COVER ON BAR EXTENSION BEYOND HOOK SHALL NOT BE LESS THAN 2 INCHES.
5. HOOKS SHALL NOT BE CONSIDERED EFFECTIVE IN DEVELOPING BARS IN COMPRESSION.

18 TYPICAL DETAIL
DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION
(NORMAL WEIGHT CONCRETE)

SCALE: N.T.S.

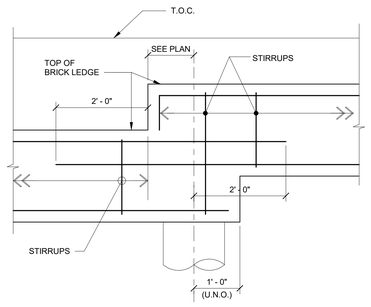
TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS
GRADE 60 (UNCOATED) REINFORCEMENT
(NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c = 5000		F'c = 6000		F'c = 7000		F'c = 8000		F'c = 9000		F'c = 10000	
	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld
#3	17	22	15	19	13	17	12	16	12	16	12	16	12	16	12	16
#4	22	29	19	25	17	23	16	21	15	19	14	18	13	17	12	16
#5	28	36	24	31	22	28	20	26	18	24	17	22	16	21	15	20
#6	33	43	29	37	26	34	24	31	22	28	21	27	19	25	18	24
#7	48	63	42	54	38	49	34	45	32	41	30	39	28	36	27	35
#8	55	72	48	62	43	56	39	51	36	47	34	44	32	42	30	39
#9	62	81	54	70	48	63	44	57	41	53	38	50	36	47	34	44
#10	70	91	61	79	54	71	50	64	46	60	43	56	41	53	39	50
#11	78	101	67	87	60	78	55	71	51	66	48	62	45	58	43	55

NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Ld = TENSION DEVELOPMENT LENGTH.
3. THE ABOVE TABLE IS VALID FOR
   a. BEAMS AND COLUMNS WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 2db AND WITH STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM.
   b. OTHER ELEMENTS SUCH AS SLABS, WALLS, ETC. WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 3db.
4. FOR TOP BARS, MULTIPLY THE SPLICE LENGTHS BY 1.30. TOP BARS REQUIRE A MINIMUM OF 12" OF FRESH CONCRETE BELOW BAR.
5. WHEN BARS OF A DIFFERENT SIZE ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF Ld OF THE LARGER BAR AND COMPRESSION LAP SPLICE LENGTH OF SMALLER BAR.
6. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN THE SMALLER OF ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH AND 6

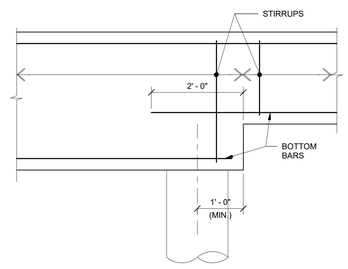
17 TYPICAL DETAIL
TENSION DEVELOPMENT AND SPLICE LENGTHS
(NORMAL WEIGHT CONCRETE)

SCALE: N.T.S.



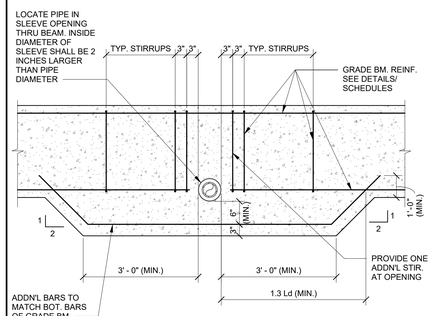
10 TYPICAL DETAIL
CHANGE IN ELEVATION OF GRADE BEAM AND BRICK LEDGE

SCALE: N.T.S.



9 TYPICAL DETAIL
CHANGE IN BOTTOM OF GRADE BEAM ELEVATION

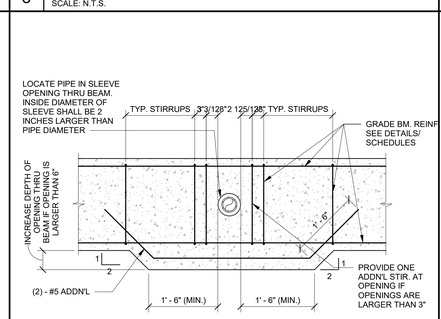
SCALE: N.T.S.



ELEVATION VIEW

8 TYPICAL DETAIL
OPENING THRU GRADE BEAM THAT CONFLICTS WITH BOTTOM REINFORCEMENT

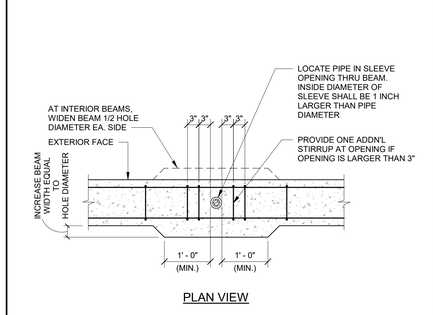
SCALE: N.T.S.



ELEVATION OF GRADE BEAM

7 TYPICAL DETAIL
OPENING THRU GRADE BEAM

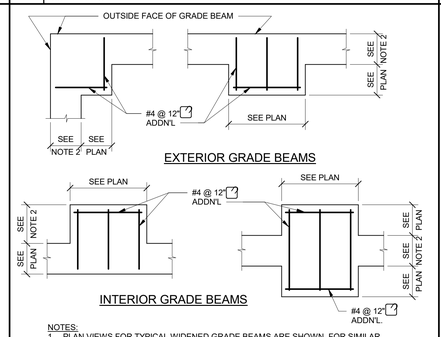
SCALE: N.T.S.



PLAN VIEW

6 TYPICAL DETAIL
VERTICAL HOLE THRU GRADE BEAM LARGER THAN 3" DIAMETER

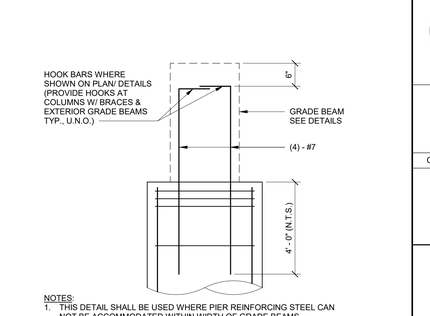
SCALE: N.T.S.



NOTES:
1. PLAN VIEWS FOR TYPICAL WIDENED GRADE BEAMS ARE SHOWN. FOR SIMILAR CONDITION NOT SHOWN, PROVIDE (?) ADDN'L. @ 12" O.C. MAX. IN WIDENED SECTION.
2. SEE DETAIL SHEETS FOR GRADE BEAM WIDTH.

5 TYPICAL DETAIL
ADDITIONAL BARS AT WIDENED GRADE BEAM (PLAN VIEW)

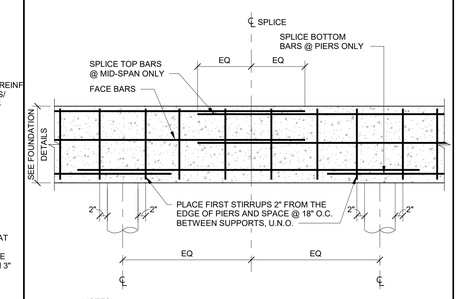
SCALE: N.T.S.



NOTES:
1. THIS DETAIL SHALL BE USED WHERE PIER REINFORCING STEEL CAN NOT BE ACCOMMODATED WITHIN WIDTH OF GRADE BEAMS.
2. SEE TYPICAL DRILLED PIER DETAIL FOR ADDITIONAL INFORMATION.

4 TYPICAL DETAIL
SHAFT SIZE LARGER THAN GRADE BEAM WIDTH

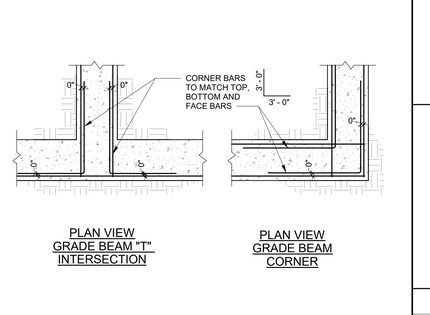
SCALE: N.T.S.



NOTES:
1. SLAB STEEL NOT SHOWN FOR CLARITY.
2. SEE TYPICAL DETAIL "TENSION DEVELOPMENT AND SPLICE LENGTH" FOR SPLICE DIMENSION.

3 TYPICAL DETAIL
BEAM REINFORCING SPLICE DETAIL

SCALE:N.T.S.

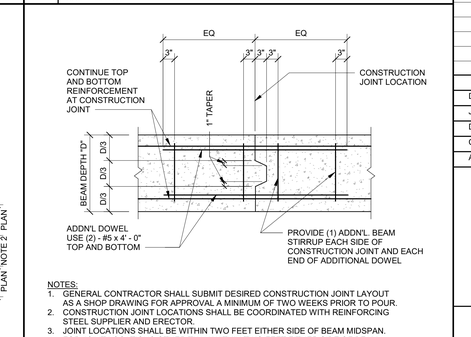


PLAN VIEW
GRADE BEAM "T" INTERSECTION

PLAN VIEW
GRADE BEAM CORNER

2 TYPICAL DETAIL
GRADE BEAM REINFORCEMENT STEEL CORNER BARS

SCALE: N.T.S.



NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. JOINT LOCATIONS SHALL BE WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

1 TYPICAL DETAIL
GRADE BEAM CONSTRUCTION JOINT

SCALE: N.T.S.

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New Softball Complex

1515 Cherrybrook Lane
Pasadena, Texas 77502
PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2540



11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

FOUNDATION DETAILS

Sheet

S3.02

CONSTRUCTION DOCUMENTS

BINDING EDGE

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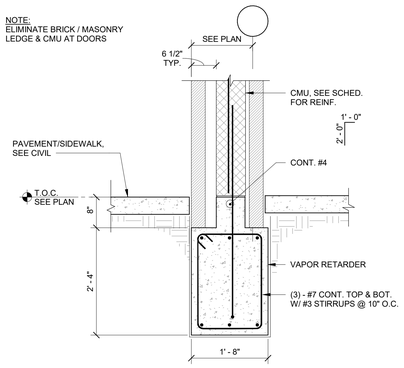
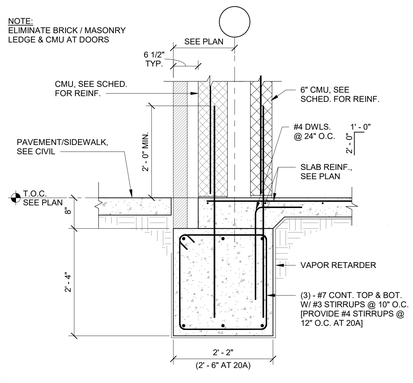


TYPICAL DETAIL
EXTERIOR GRADE BEAM

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

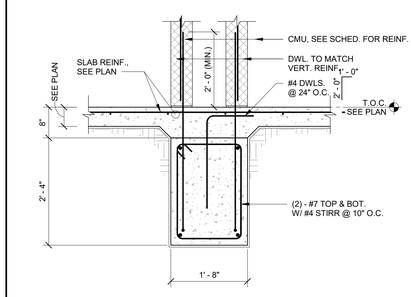


16A

TYPICAL DETAIL
EXTERIOR GRADE BEAM

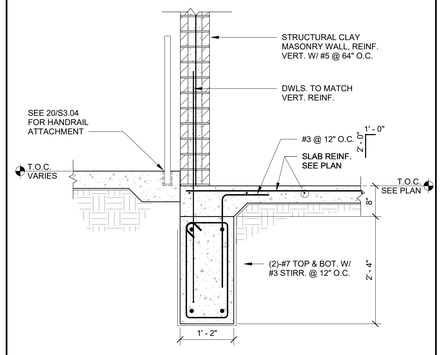
16 SCALE: 3/4" = 1'-0"

WALL THICKNESS	VERTICAL REINFORCING
6"	#5 @ 24" O.C.



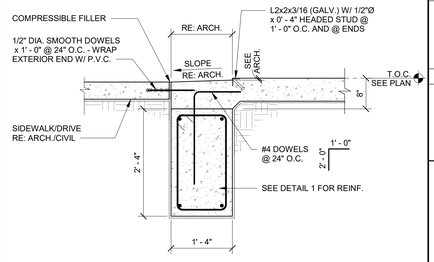
TYPICAL DETAIL
GRADE BEAM AT DOUBLE CMU WALL

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



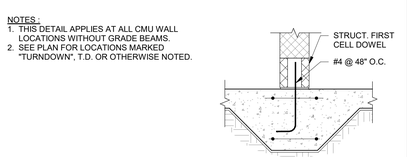
PERIMETER WALL AT DUGOUT

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



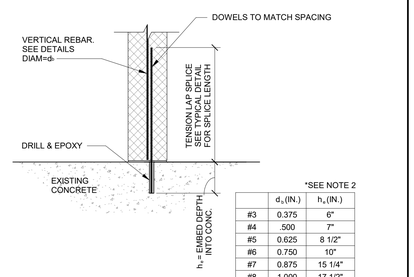
TYPICAL DETAIL
EXTERIOR GRADE BEAM AT OVERHEAD DOOR

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



TYPICAL DETAIL
TURNDOWN AT CMU WALL

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

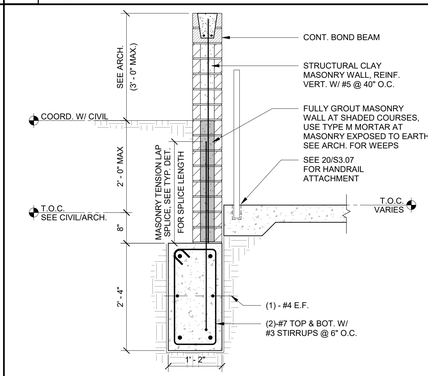


	d_b (IN.)	h_s (IN.)
#3	0.375	6"
#4	.500	7"
#5	0.625	8 1/2"
#6	0.750	10"
#7	0.875	15 1/4"
#8	1.000	17 1/2"

NOTES:
1. THIS DETAIL MAY BE USED IN LIEU OF CAST-IN-PLACE DOWELS WHERE SHOWN ON STRUCTURAL DETAILS EXCEPT WHERE PROHIBITED BY NOTE 2.
2. THIS DETAIL IS NOT APPLICABLE AT CANTILEVER WALLS OR WALLS SUBJECTED TO MOMENT AT THE BASE.
3. USE HILTI HIT-HY200 ADHESIVE SYSTEM OR APPROVED EQUIVALENT.

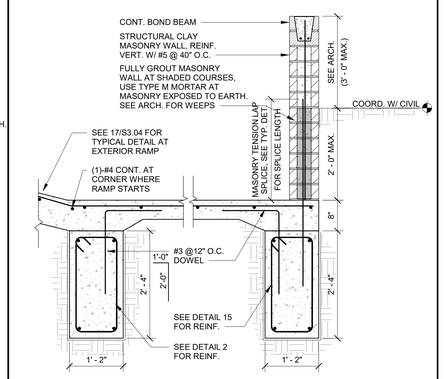
ALTERNATE DETAIL
EPOXY DOWELS AT CMU WALLS

19 SCALE: 1" = 1'-0"



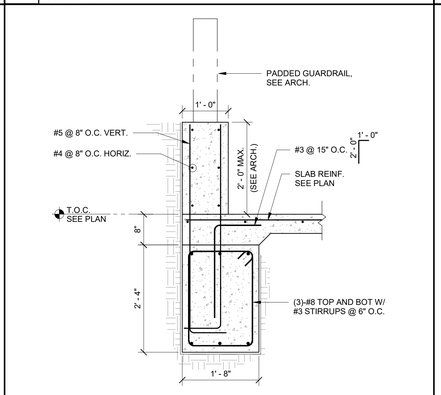
SECTION AT SCREEN WALL

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



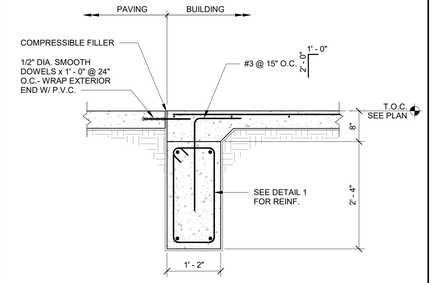
TYPICAL DETAIL GRADE BEAM BEFORE RAMP

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



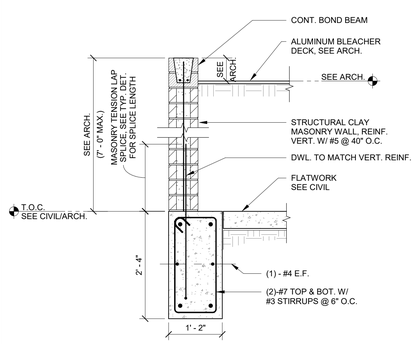
PERIMETER WALL AT DOGOUT

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



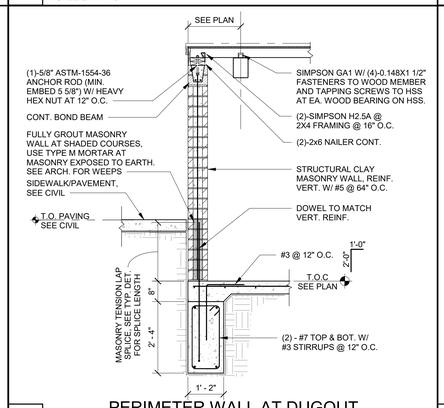
TYPICAL DETAIL
EXTERIOR GRADE BEAM
AT DOORS/FLATWORK

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



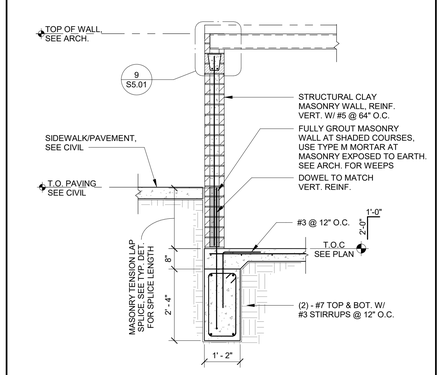
CMU WALL AT SOFTBALL BACKSTOP

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



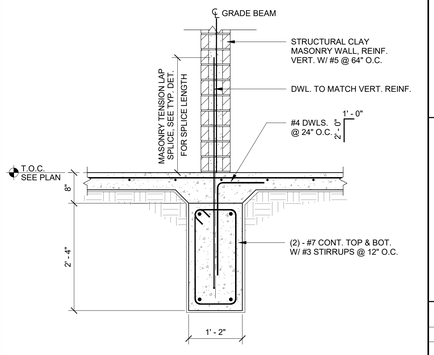
PERIMETER WALL AT DUGOUT

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



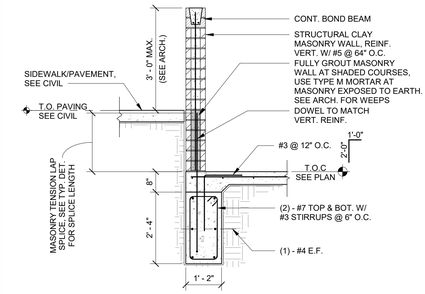
PERIMETER WALL AT DUGOUT

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



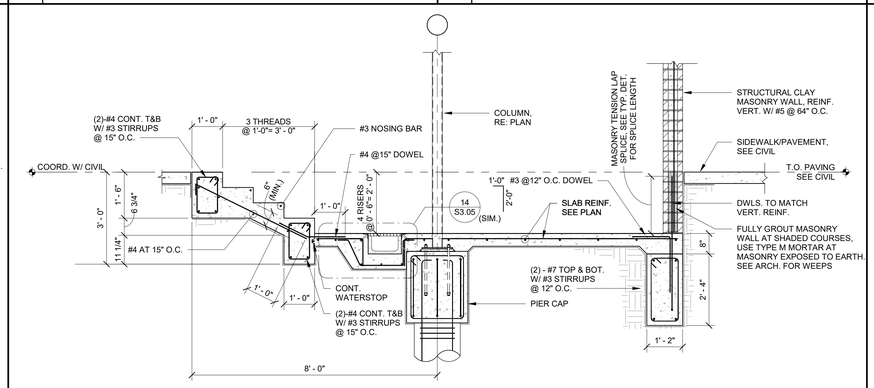
TYPICAL DETAIL
INTERIOR GRADE BEAM

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



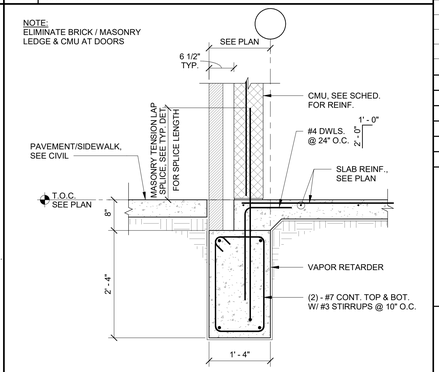
PERIMETER WALL AT DUGOUT

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



DUGOUT SECTION

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



TYPICAL DETAIL
EXTERIOR GRADE BEAM

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

BINDING EDGE

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New Softball Complex

1515 Cherrybrook Lane
Pasadena, Texas 77502
PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2540



Revision Schedule

NO.	ISSUE	DATE
2	CITY REVIEW COMMENTS 03	10/03/2025

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

FOUNDATION DETAILS

Sheet

S3.03

CONSTRUCTION DOCUMENTS

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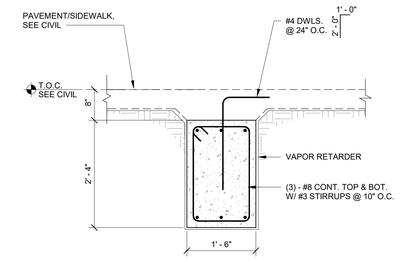
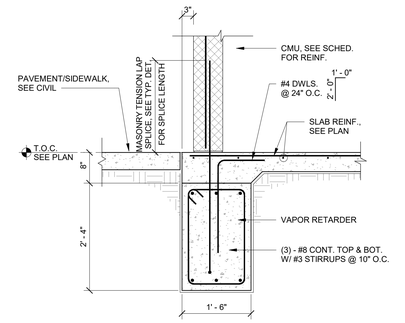


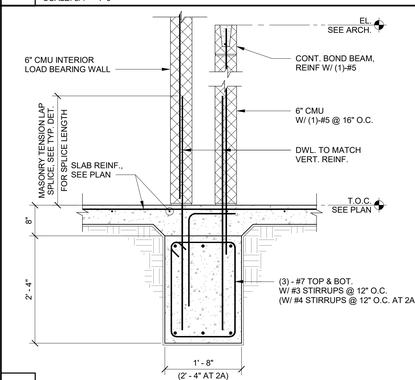
TYPICAL DETAIL
EXTERIOR GRADE BEAM

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



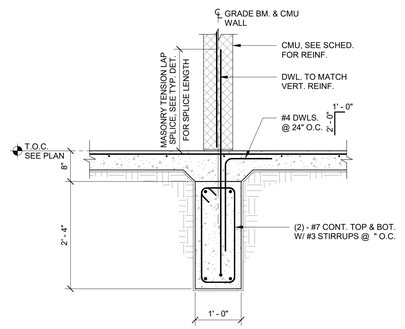
TYPICAL DETAIL
PERIMETER GRADE BEAM

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



2A
TYPICAL DETAIL
AT INTERIOR LOAD BEARING WALL

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



TYPICAL DETAIL
INTERIOR GRADE BEAM
AT LOAD BEARING WALL

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

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New Softball Complex

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PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640



11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

FOUNDATION
DETAILS

Sheet

S3.04

CONSTRUCTION DOCUMENTS

BINDING EDGE

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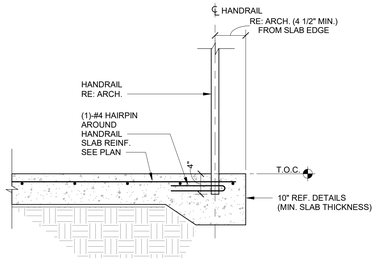
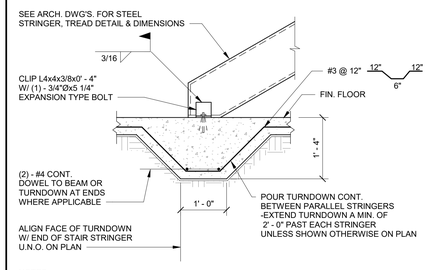


TYPICAL DETAIL
EMBEDED HANDRAIL

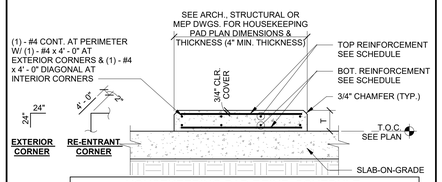
20 SCALE: 1" = 1'-0"



NOTES:
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF STAIR STRINGER LOCATIONS WITH ARCHITECTURAL DRAWINGS & PROVIDE TURNDOWNS WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. CLIP ANGLE TO BE HIDDEN BENEATH FIRST TREAD. WHERE OPEN RISERS ARE USED, COORDINATE THE LOCATION WITH THE ARCHITECT.

TYPICAL DETAIL
TURNDOWN AT STEEL STAIR
SLAB-ON-GRADE

12 SCALE: N.T.S.

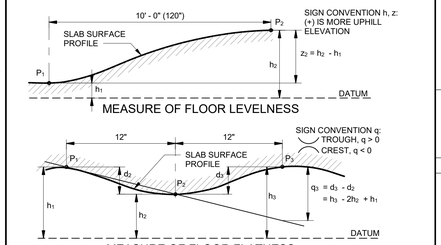


HOUSEKEEPING PAD REINF. SCHEDULE		
PAD THICKNESS	TOP REINFORCEMENT	BOTTOM REINF.
T ≤ 4"	WWR 4x4-W2.9xW2.9 OR #3 @12" E.W.	NONE
4" < T ≤ 6"	WWR 4x4-W4xW4 OR #4 @18" E.W.	NONE
6" < T ≤ 8"	WWR 4x4-W6xW6 OR #4 @12" E.W.	NONE
8" < T ≤ 12"	#4 @ 18" E.W.	#4 @ 18" E.W.
12" < T ≤ 16"	#4 @ 12" E.W.	#4 @ 12" E.W.

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB-ON-GRADE AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.
2. PAD SHALL NOT BE POURED UNTIL AFTER SLAB HAS REACHED ITS SPECIFIED 28 DAYS STRENGTH.
3. CONCRETE FOR HOUSEKEEPING PAD SHALL BE NORMAL WEIGHT CONCRETE WITH f'c = 3,000 PSI.

TYPICAL DETAIL
CONCRETE ISLAND OR HOUSEKEEPING PAB
SLAB-ON-GRADE

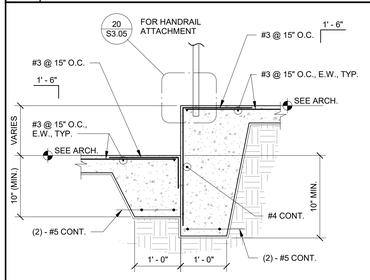
8 SCALE: N.T.S.

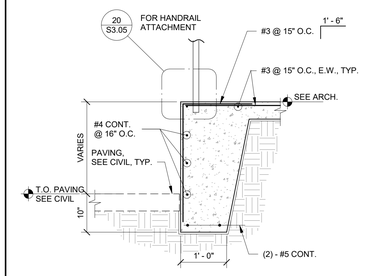


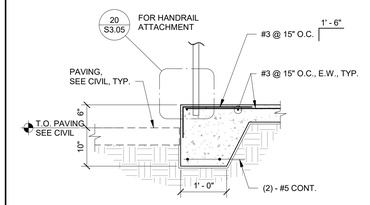
NOTES:
1. F_L = LEVELNESS F-NUMBER
   $F_L = \frac{12.5}{(3 \times S_Z) + z}$ WHERE z = MEAN VALUE OF ALL z FLOOR READINGS.
   S_Z = STANDARD DEVIATION OF ALL z FLOOR READINGS.
2. F_F = LEVELNESS F-NUMBER
   $F_F = \frac{(3 \times S_Q) + q}{}$ WHERE q = MEAN VALUE OF ALL z FLOOR READINGS.
   S_Q = STANDARD DEVIATION OF ALL q FLOOR READINGS
3. F_L AND F_F SHALL BE STATISTICALLY DETERMINED ACCORDING TO ASTM E 1155 "STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND LEVELNESS USING THE F-NUMBER SYSTEM."
4. REFER TO CONCRETE SPECIFICATIONS FOR REQUIRED F_F AND F_L VALUES.

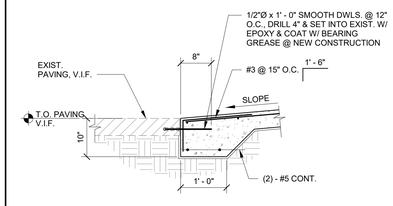
TYPICAL DETAIL
SLAB SURFACE TOLERANCE

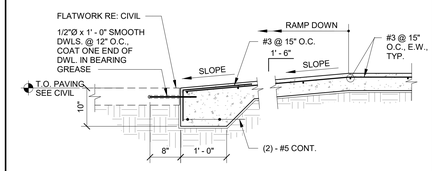
4 SCALE: N.T.S.











TYPICAL DETAIL
AT EXTERIOR RAMP

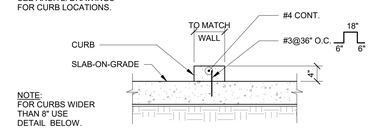
17 SCALE: 3/4" = 1'-0"

NOTES:
1. SEE ARCHITECT DRAWINGS FOR ACTUAL LOCATION AND TRENCH SIZE.

TYPICAL DETAIL
TRENCH DRAIN

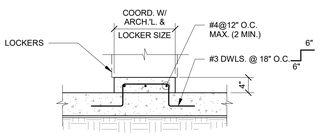
14 SCALE: 3/4" = 1'-0"

NOTE:
SEE ARCH'L. DRAWINGS
FOR CURB LOCATIONS.



NOTE:
FOR CURBS WIDER
THAN 8" USE
DETAIL BELOW.

CURB AT MECHANICAL ROOMS

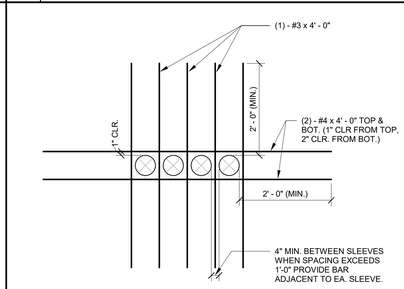


NOTE:
COORDINATE CURB SIZES
AND LOCATIONS W/ ARCH'L.

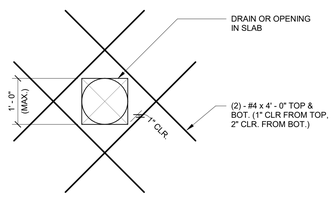
CURB AT LOCKERS

TYPICAL DETAIL
CURB AT MECH. ROOMS AND LOCKERS

13 SCALE: N.T.S.



MULTIPLE OPENINGS
(PIPE SLEEVES)

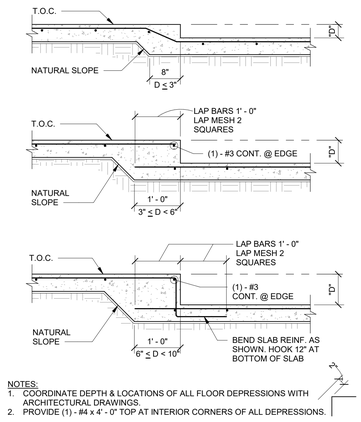


SINGLE DRAIN OR OPENING

NOTES:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. CONDUIT & PIPES OF ALUMINUM SHALL NOT BE PLACED IN CONCRETE UNLESS EFFECTIVELY COATED W/ PROTECTIVE MATERIAL TO PREVENT CHEMICAL REACTION.

TYPICAL DETAIL
ADDITIONAL REINFORCEMENT AT
OPENINGS AT SLAB-ON-GRADE

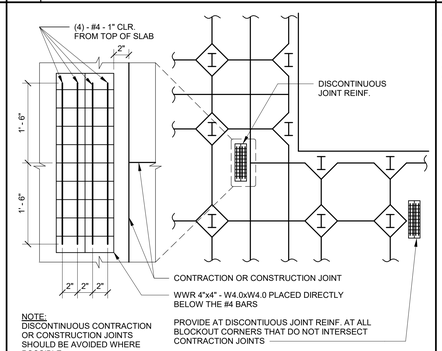
10 SCALE: N.T.S.



NOTES:
1. COORDINATE DEPTH & LOCATIONS OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE (1) - #4 x 4' - 0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.

TYPICAL DETAIL
AT FLOOR DEPRESSIONS

9 SCALE: N.T.S.

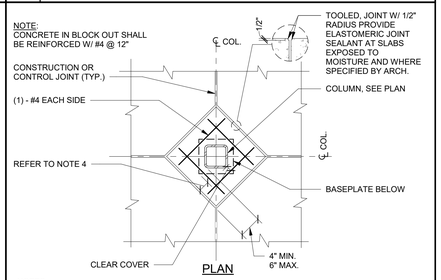


NOTE:
DISCONTINUOUS CONTRACTION OR CONSTRUCTION JOINTS SHOULD BE AVOIDED WHERE POSSIBLE.

PROVIDE AT DISCONTINUOUS JOINT REINF. AT ALL BLOCKOUT CORNERS THAT DO NOT INTERSECT CONTRACTION JOINTS

TYPICAL DETAIL
ADDITIONAL REINFORCEMENT AT
DISCONTINUOUS JOINT IN SLAB-ON-GRADE

7 SCALE: N.T.S.



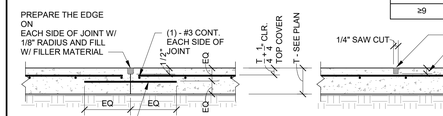
NOTES:
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCK OUT FOR COLUMNS. SUBMIT THE DESIRED BLOCK OUT SIZE TO ARCHITECT FOR APPROVAL.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN.
3. BLOCKOUT SHALL BE SIZED TO PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
4. GENERAL CONTRACTOR TO INCREASE COLUMN BLOCK-OUT DIMENSIONS AS REQUIRED TO ACCOMMODATE GUSSET PLATES AT BRACE FRAMES.

TYPICAL DETAIL
BLOCK-OUT AROUND COLUMN
(SLAB-ON-GRADE)

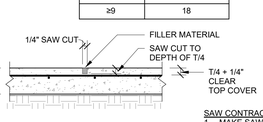
3 SCALE: N.T.S.

DOWEL SCHEDULE			
SLAB DEPTH (IN.)	DOWEL DIAMETER (IN.)	TOTAL DOWEL LENGTH (IN.)	DOWEL SPACING CENTER TO CENTER (IN.)
5-6	3/4	16	12
7-8	1	18	12
9-11	1 1/4	18	12

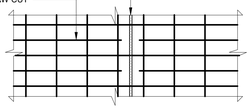
CONTRACTION JOINT SPACING	
SLAB THK. (IN.)	JOINT SPACING (FT)
4	11
5	13
6	14
7	16
8	17
≥9	18



CONSTRUCTION JOINT



CONTRACTION JOINT



CONTRACTION JOINT (PLAN VIEW)

CONSTRUCTION JOINT NOTES:
1. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
2. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE WITH FORM OIL.
3. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
4. ALL DOWELS IN THIS DETAIL SHALL BE SMOOTH BAR DOWELS.

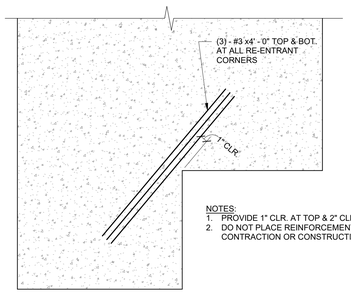
JOINT SPACING NOTE:
1. PROVIDE CONTRACTION AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN CENTERLINE AND AT A MAXIMUM SPACING AS SCHEDULED. ASPECT RATIOS OF SLAB PANELS ENCLOSED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.

SAW CONTRACTION JOINT NOTES:
1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.
2. ALL JOINTS SHALL BE CONTINUOUS. DO NOT OFFSET OR STAGGER JOINTS.
3. CLEAN JOINT PRIOR TO FILLING THE JOINT.

JOINT FILLER MATERIAL NOTES:
1. FILLER MATERIAL USED SHALL BE EPOXY RESINS WITH A MINIMUM SHORE "A" HARDNESS OF 80 AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION. INSTALL JOINT FILLER PER MANUFACTURER'S SPECIFICATIONS.
2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION.
3. ALL EXPOSED SLAB JOINTS SHALL BE FILLED WITH FILLER MATERIAL.

TYPICAL DETAIL
CONSTRUCTION AND CONTRACTION JOINTS SLAB-ON-GRADE

6 SCALE: N.T.S.

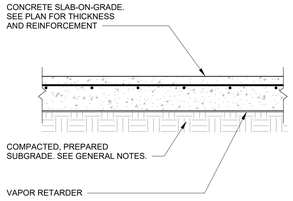


NOTES:
1. PROVIDE 1" CLR. AT TOP & 2" CLR. AT BOT.
2. DO NOT PLACE REINFORCEMENT ACROSS CONTRACTION OR CONSTRUCTION JOINTS.

SCHEMATIC SLAB-ON-GRADE

TYPICAL DETAIL
RE-ENTRANT CORNER BARS AT
SLAB-ON-GRADE

5 SCALE: N.T.S.



TYPICAL DETAIL
SLAB-ON-GRADE CONSTRUCTION
SUBGRADE PREPARATION

1 SCALE: N.T.S.

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New Softball Complex

1515 Cherrybrook Lane
Pasadena, Texas 77502

PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640
STATE OF TEXAS
KHALIL TABAJA
137127
REGISTERED
PROFESSIONAL
ENGINEER
11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

FOUNDATION
DETAILS

Sheet

S3.05

CONSTRUCTION DOCUMENTS

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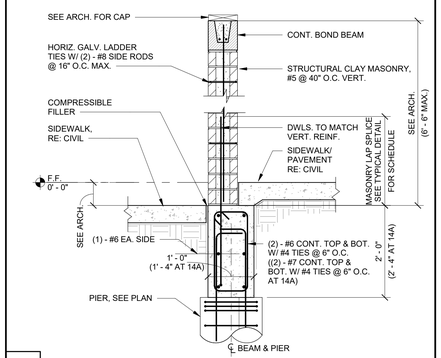
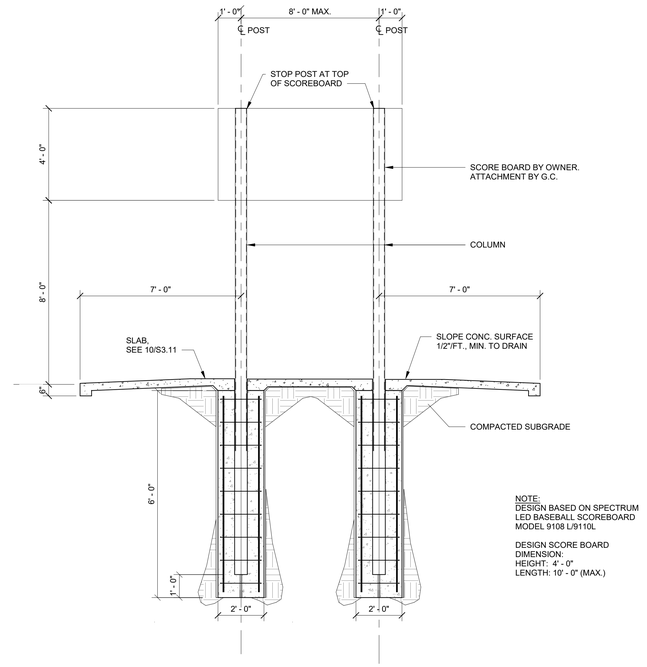


NOTE:
1. PROVIDE THIS DETAIL IF HORIZONTAL MEMBERS ARE REQUIRED FOR SCOREBOARD ATTACHMENT.
2. DESIGN BASED ON SPECTRUM LED BASEBALL SCOREBOARD MODEL 9108 L/9110L

DESIGN SCORE BOARD DIMENSION:
HEIGHT: 4' - 0"
LENGTH: 10' - 0" (MAX.)

15 SCORE BOARD DETAIL

SCALE: N.T.S.



NOTE:
DESIGN BASED ON SPECTRUM LED BASEBALL SCOREBOARD MODEL 9108 L/9110L

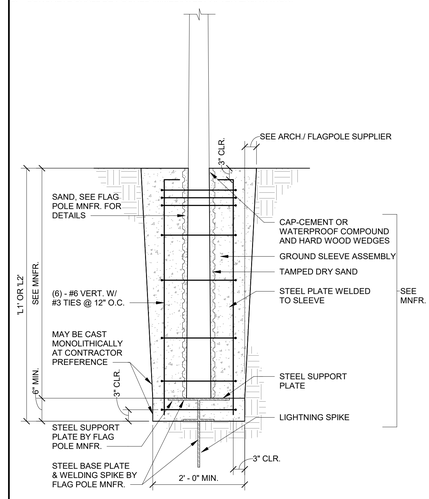
DESIGN SCORE BOARD DIMENSION:
HEIGHT: 4' - 0"
LENGTH: 10' - 0" (MAX.)

11 SCORE BOARD DETAIL

SCALE: N.T.S.

MIN. 'L' DEPTH			
MAX. POLE HEIGHT (ft.)	MAX. FLAG AREA ft²	'L1'	'L2'
20	24	4' - 0"	3' - 0"
25	30	5' - 0"	4' - 0"
30	60	5' - 6"	4' - 6"
35	60	6' - 0"	4' - 6"
45	96	7' - 6"	5' - 6"
50	150	8' - 6"	6' - 6"

NOTES:
1. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI WITH A MAXIMUM AGGREGATE SIZE OF 1 1/2" AND A MAXIMUM WATER / CEMENT RATIO OF 0.54.
2. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GR. 60.
3. ASSUMPTIONS FOR FOUNDATION DESIGN INCLUDE A 5"-12", 20-50 FT. POLE W/ FIXTURES AND A MAXIMUM FLAG AREA OF 24-150 SQ. FT.
4. SEE MNFR. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. WIND LOAD CRITERIA IS PER IBC 2021, Vult = 148 MPH.
6. FOR A STATED POLE HEIGHT SHOWN ON THE TABLE, THE DEPTH OF PIER IS DEEMED ADEQUATE IF THE MAX. FLAG AREA IS LESS THAN SHOWN ON TABLE ABOVE. WHERE MULTIPLE FLAGS ARE INSTALLED, THE COMBINED AREA OF THE FLAGS SHALL BE USED.
7. USE DEPTH 'L2' WHERE FLAG POLE IS CONFINED BY PAVING, AT BASE, OTHERWISE USE 'L1'.
8. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION, THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.
9. CONCRETE SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

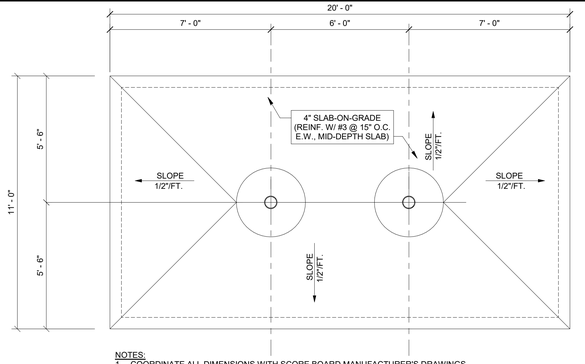


3 TYPICAL DETAIL
FLAG POLE FOUNDATION

SCALE: N.T.S.

14A
14 TYPICAL DETAIL
GRADE BEAM AT FREESTANDING WALL

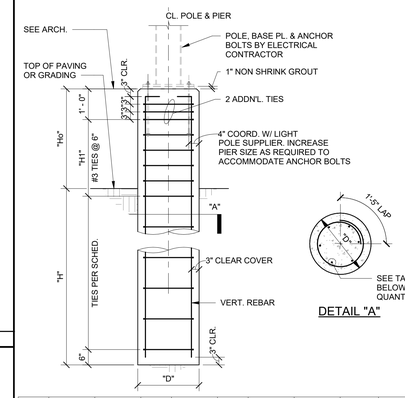
SCALE: 3/4" = 1'-0"



NOTES:
1. COORDINATE ALL DIMENSIONS WITH SCORE BOARD MANUFACTURER'S DRAWINGS.
2. SEE ARCH. FOR NUMBER OF SCORE BOARDS AND THEIR LOCATIONS.
3. SPLICING OF COLUMNS IS NOT ALLOWED WITHOUT ENGINEER'S APPROVAL.

10 SCOREBOARD FOUNDATION PLAN

SCALE: N.T.S.

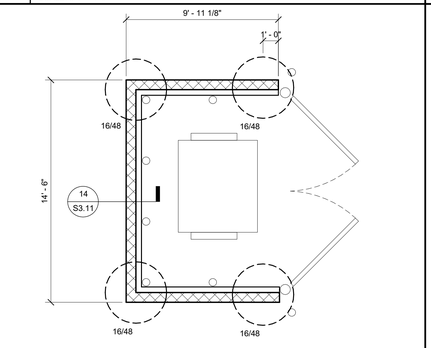


POLE MARK	NOM. POLE HEIGHT	ASSUMED EPA (sf)	"H" DEPTH OF PIER	"H0" ABOVE GRADE	"H1"	"D" DIAMETER OF PIER	VERTICAL REINF	TIES	REMARKS
LP1	15' - 0"	5.0	5' - 0"	RE: ARCH.	1' - 6"	24"	6 - #6	#3 @ 12"	TYPICAL PARKING
LP2	25' - 0"	10.0	8' - 0"	RE: ARCH.	1' - 6"	24"	6 - #6	#3 @ 12"	TYPICAL PARKING
LP3	35' - 0"	10.0	10' - 0"	RE: ARCH.	1' - 6"	24"	6 - #7	#3 @ 12"	

NOTES:
1. WIND LOAD CRITERIA IS PER IBC 2021. Vult = 148 MPH.
2. CONCRETE COMPRESSIVE STRENGTH, F'C = 3,000 PSI (NWC), WITH A MAX WATER/CEMENT RATIO OF 0.54.
3. STEEL REINFORCEMENT SHALL BE ASTM A615, GR. 60.
4. REFER TO ARCH DRAWINGS/CIVIL DRAWINGS FOR LOCATIONS OF LIGHT POLES.
5. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION (AND SPECIFICATIONS FOR LIGHT STANDARDS).
6. VERIFY PROJECTION OF CONCRETE ABOVE GROUND WITH ARCHITECT.
7. EPA INDICATES MAXIMUM EXPOSED PROJECTED AREA AT THE TOP OF THE POLE IN ANY DIRECTION.
8. FOR A STATED POLE HEIGHT SHOWN ON THE TABLE, THE DEPTH OF PIER IS DEEMED ADEQUATE IF EPA IS LESS THAN SHOWN ON TABLE ABOVE.
9. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION, THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.
10. CONCRETE SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

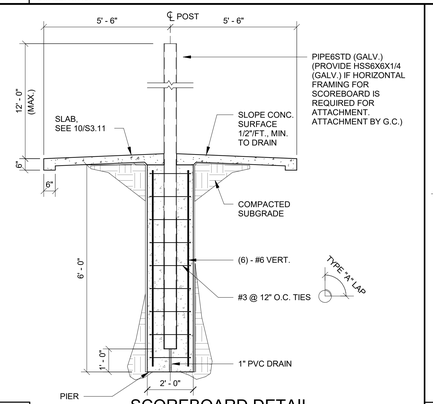
1 TYPICAL DETAIL
LIGHT POLE FOUNDATION

SCALE: N.T.S.



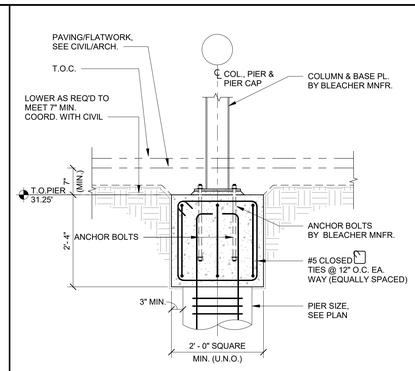
13 FOUNDATION PLAN - DUMPSTER ENCLOSURE

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



9 SCOREBOARD DETAIL

SCALE: N.T.S.



5 TYPICAL DETAIL
BLEACHER COLUMN FOUNDATION

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

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PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640

STATE OF TEXAS
KHALIL TABAJA
103726
FINAL

11/10/2025

Revision Schedule

NO.	ISSUE	DATE
2	CITY REVIEW COMMENTS 03	10/03/2025

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

SITE FOUNDATION DETAILS

Sheet

S3.11

CONSTRUCTION DOCUMENTS

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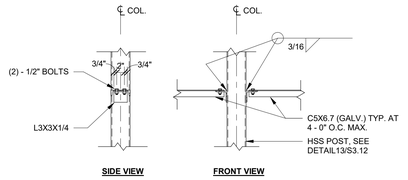
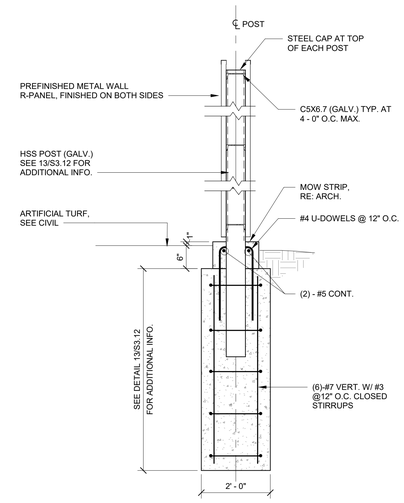
NOTE:
USE GALVANIZED ANCHOR BOLTS
AT EXTERIOR LOCATIONS.



TYPICAL DETAIL
AT CHANNEL CONNECTION TO HSS POST

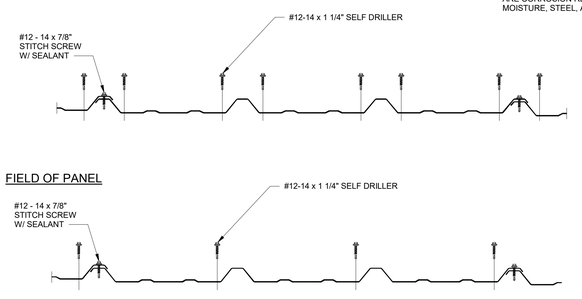
8 SCALE: 3/4" = 1'-0"



FENCE DETAIL

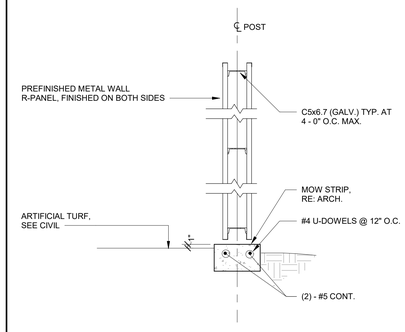
3 SCALE: N.T.S.

NOTE:
ALL FASTENERS SHALL BE CONSTRUCTED OF A MATERIAL OR CONTAIN A COATING SUCH THAT THEY ARE CORROSION RESISTANT WHEN EXPOSED TO MOISTURE, STEEL, AND GALVALUME.,



TYPICAL DETAIL
R-PANEL ATTACHMENT FASTENING PATTERNS

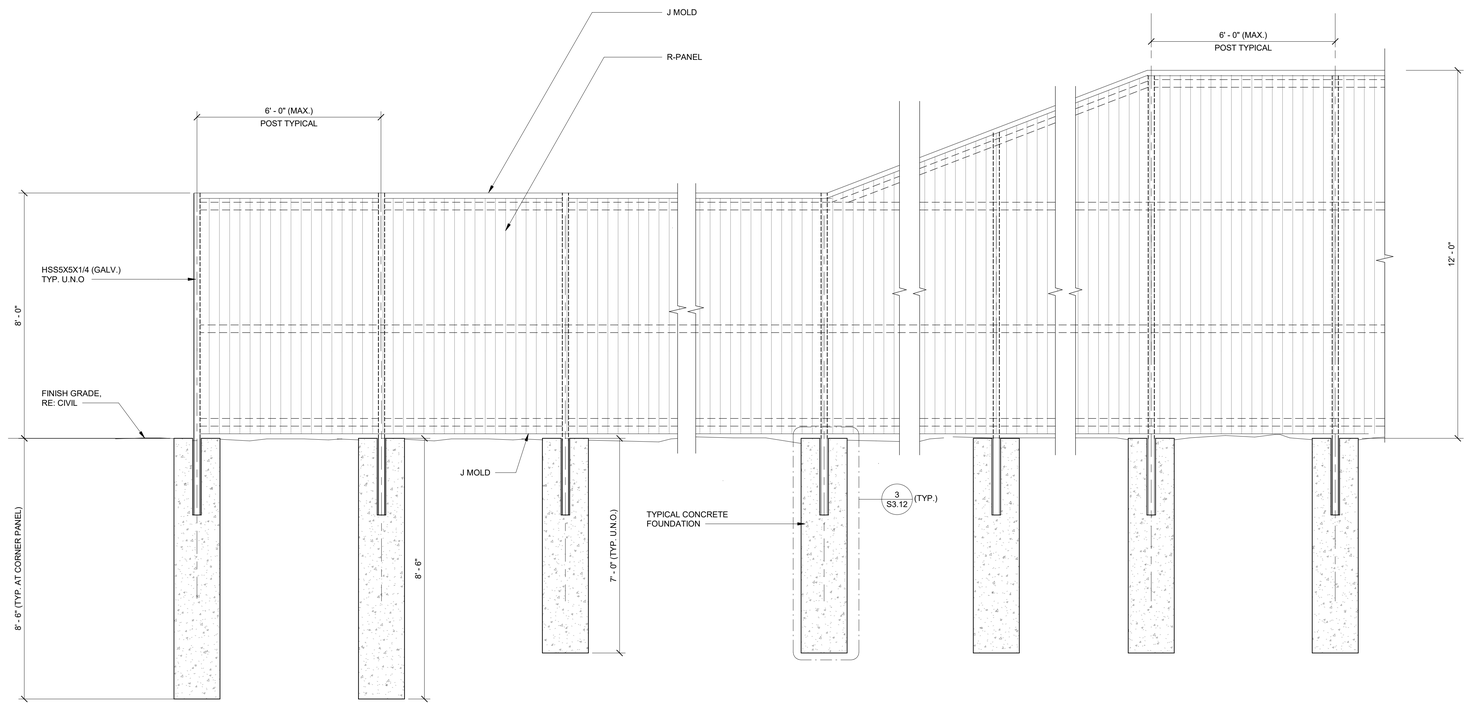
15 SCALE: 3/8" = 1'-0"



FENCE DETAIL

7 SCALE: N.T.S.

NOTE:
ALL FENCE SHALL BE INSIDE OF FIELD AREAS.



ELEVATION OF R-PANEL FENCE

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

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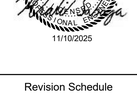
PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640



11/10/2025

Revision Schedule

NO.	ISSUE	DATE
1	PERMIT REVISION	06/06/2025

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

SITE
FOUNDATION
DETAILS

Sheet

S3.12

CONSTRUCTION DOCUMENTS

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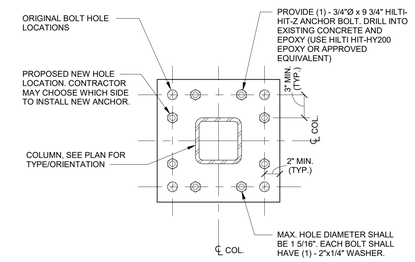
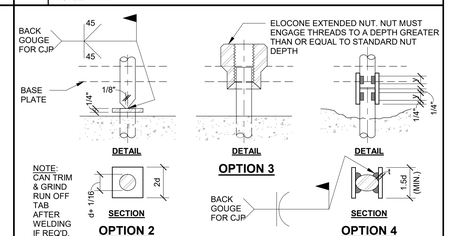
BINDING EDGE



NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACE FRAMES OR MOMENT FRAMES. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA. LOCATION WITH DAMAGED ANCHOR BOLTS.
2. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR EPOXY ANCHOR.
3. HIT-Z-R ANCHORS SHALL BE USED IN LIEU OF HIT-Z ANCHORS AT COLUMNS EXPOSED TO WEATHER.

TYPICAL DETAIL
REPAIR AT GRAVITY BASE PLATE

8 SCALE: N.T.S.



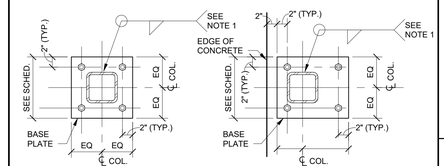
SCHEDULE (GRADE 36)*		
BOLT DIA.	t	y
3/4	1/4"	1"
7/8	1/4"	1 1/4"
1	5/16"	1 1/2"
1 1/4	3/8"	1 3/4"
1 1/2	7/16"	2 1/4"
1 3/4	1/2"	2 1/2"
2	9/16"	2 3/4"

* MULTIPLY CHART VALUES BY 1.3 FOR GRADE 55

NOTE: IF BASEPLATE IS GALVANIZED REPAIR MATERIAL MUST ALSO BE GALVANIZED

TYPICAL DETAIL REPAIR AT ANCHOR BOLT

7 SCALE:N.T.S.

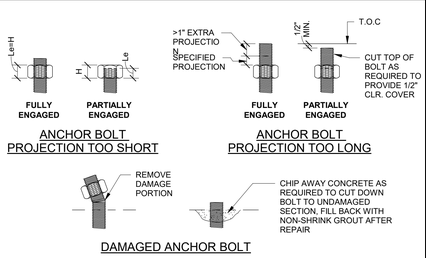


BASE PLATE SCHEDULE		
COLUMN	BASE PLATE	ANCHOR BOLTS
HSS 4 x 4	12" x 12" x 3/4"	(4)-3/4"Ø TYPE A

NOTES:
1. MINIMUM FILLET WELD ACCORDING TO AISC (1/4" MIN.). WELDING AROUND CORNER RADIUS IS NOT REQUIRED U.N.O.
2. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AISC.
3. WASHERS SHALL BE INSTALLED OVER OVERSIZED HOLES.
4. CONTRACTOR SHALL PROVIDE 1/8" THICK TEMPLATE FOR ANCHOR ROD INSTALLATION.

TYPICAL DETAIL
BASE PLATE AT HSS COLUMNS

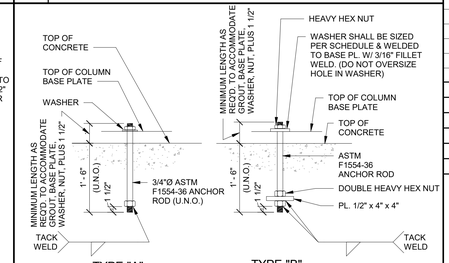
2 SCALE: N.T.S.



NOTES:
1. WHERE ANCHOR BOLT PROJECTION IS TOO LONG, SUBMIT RFI TO EOR FOR APPROVAL AS THE BOTTOM OF ANCHOR BOLT ELEVATION MAY NOT BE ADEQUATE. CUT TOP OF BOLT DOWN AS REQUIRED TO PROVIDE COVER. FOR GRAVITY BASE PLATES CONTRACTOR MAY REPLACE OUT OF PLACE ANCHOR WITH EPOXY ANCHOR AS SHOWN IN DETAIL 4/S3.21
2. WHERE ANCHOR BOLT PROJECTION IS LOWER THAN SPECIFIED BUT FULL THREAD ENGAGEMENT WAS ACHIEVED THE BOLT IS ACCEPTABLE. WHERE PROJECTION IS SUCH THAT THE NUT IS PARTIALLY ENGAGED, SUBMIT RFI TO EOR WITH Le AND H DIMENSIONS AS WELL AS THE COLUMN LOCATION.
3. AT DAMAGED ANCHOR BOLTS OR PARTIALLY THREADED FASTENERS DEEMED UNACCEPTABLE BY THE EOR, CONTRACTOR MAY REPAIR BOLT PER DETAIL 3/S3.21 IN LIEU OF REPAIR, AT GRAVITY BASE PLATE CONTRACTOR MAY REPLACE BOLT WITH DRILLED AND EPOXIED ANCHOR PER DETAIL 4/S3.21

TYPICAL DETAIL
REPAIR AT ANCHOR BOLT

5 SCALE:N.T.S.



TYPE "B" WASHER SCHEDULE		
ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

NOTE:
USE TYPE "B" ANCHOR BOLTS AT COLUMNS WITH DIAGONAL BRACES, MOMENT CONNECTIONS, & AT CANOPY COLUMNS

*CIRCULAR OR SQUARE WASHERS MEETING WASHER SIZE ARE ACCEPTABLE

TYPICAL DETAIL ANCHOR BOLT

1 SCALE: N.T.S.

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New Softball Complex

1515 Cherrybrook Lane
Pasadena, Texas 77502
PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640



11/10/2025

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Approved	KT

Title

TYPICAL ANCHOR BOLTS & BASE PLATE DETAILS

Sheet

S3.21

CONSTRUCTION DOCUMENTS

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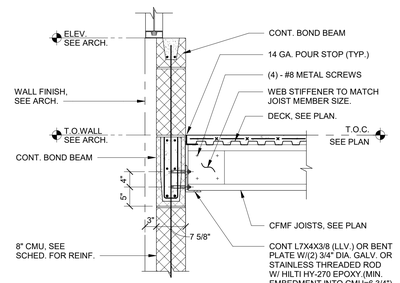
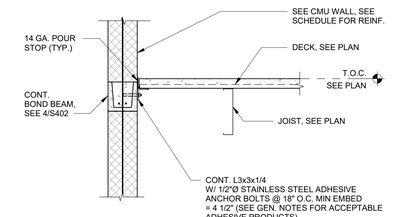


TYPICAL FLOOR FRAMING
AT LOAD BEARING WALL

3

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

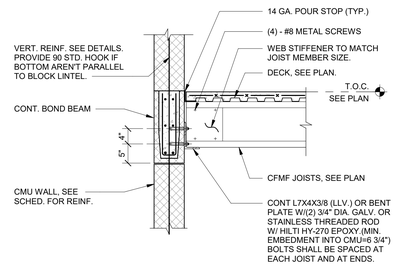
NOTE:
BOND BEAM SHALL BE LOCATED OF ONE COURSE DEEP. WHERE COURSING RESULTS IN CUT BLOCK AT BEARING CONDITION, BOND BEAM SHALL BE LOCATED AT CUT BLOCK COURSE AND COURSE BELOW.



TYPICAL DETAIL
DECK SUPPORT AT CMU WALL

2

SCALE: N.T.S.



TYPICAL FLOOR FRAMING
AT LOAD BEARING WALL

1

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

cre8 ARCHITECTS

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New Softball Complex

1515 Cherrybrook Lane
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PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640

STATE OF TEXAS
KHALIL TABAJA
127172
LICENSED
PROFESSIONAL
ENGINEER

11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information

Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

TYPICAL FLOOR DETAILS

Sheet

S4.01

CONSTRUCTION DOCUMENTS

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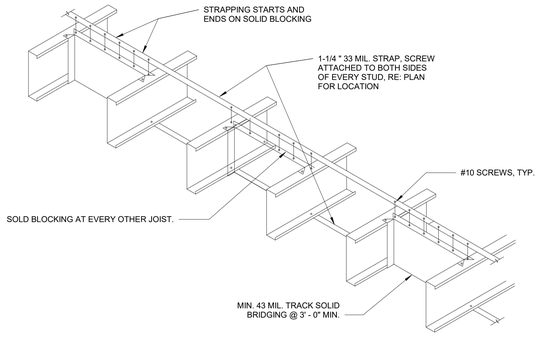


20 SCALE: 1 1/2" = 1'-0"

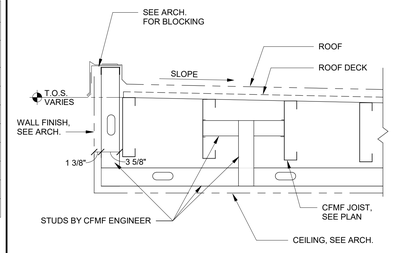
TYPICAL DETAIL RAFTER/JOIST BRIDGING

SIMPSON SJC CONNECTOR SCHEDULE					
FASTENERS					
SUPPORTED JOIST SIZE	CONNECTOR	CARRIED MEMBER	CARRYING MEMBER	SUPPORT GAGE (MIN.)	CAPACITY (ASD)
6" JOIST<6'	L50	(3)-#10	(3)-#10	16 GAGE	0.75 KIPS
6" JOIST >6'	SJCT	(4)-#10	(3)-#10	16 GAGE	2.10 KIPS
8" JOIST	SJCT	(4)-#10	(3)-#10	16 GAGE	2.10 KIPS
10" JOIST	SJC8.25	(9)-#10	(7)-#10	16 GAGE	1.00 KIPS
12" JOIST	MSJC8.25	(9)-#10	(7)-#10	16 GAGE	1.13 KIPS
14" JOIST	SJC10.25	(11)-#10	(7)-#10	16 GAGE	1.26 KIPS
16" JOIST	MSJC10.25	(11)-#10	(7)-#10	16 GAGE	1.26 KIPS
(2) 16" JOIST	MSJC10.25	(11)-#10	(7)-#10	14 GAGE	2.04 KIPS

NOTE:
PROVIDE CONNECTOR SHOWN PER SCHEDULE U.N.O. IN DETAILS.

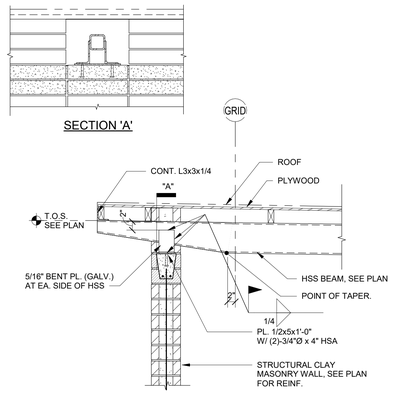
12 SCALE: 12" = 1'-0"

TYPICAL DETAIL COLD FORM JOIST CONNECTOR SCHEDULE



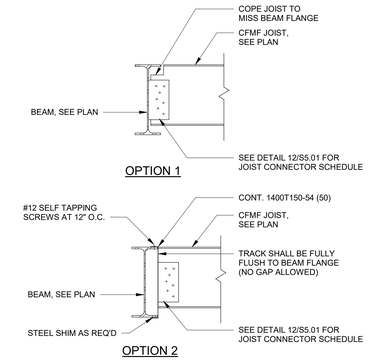
8 SCALE: 1" = 1'-0"

TYPICAL DETAIL ROOF EDGE CONNECTION AT TICKET BOOTH



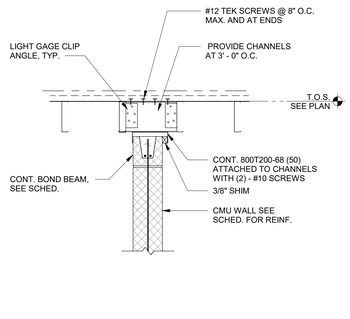
4 SCALE: 3/4" = 1'-0"

TYPICAL DETAIL STEEL BEAM AT STRUCTURAL BIRCK



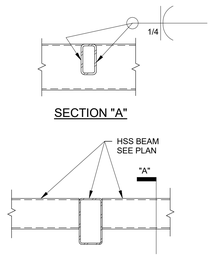
19 SCALE: 1" = 1'-0"

CFMF JOIST CONNECTION TO STEEL BEAM



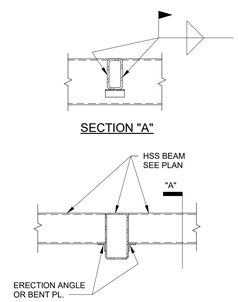
15 SCALE: 3/4" = 1'-0"

TYPICAL DETAIL EXTERIOR CMU WALL TOP CONNECTION



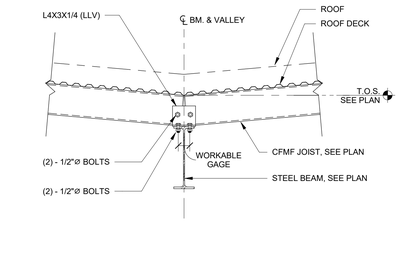
11 SCALE: 3/4" = 1'-0"

CONNECTION HSS BEAM TO HSS BEAM



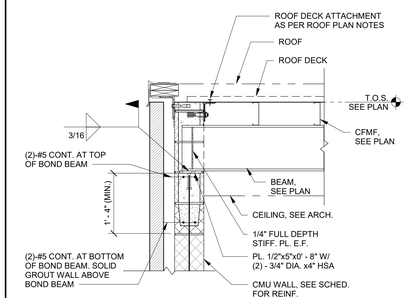
7 SCALE: 3/4" = 1'-0"

CONNECTION HSS BEAM TO HSS BEAM



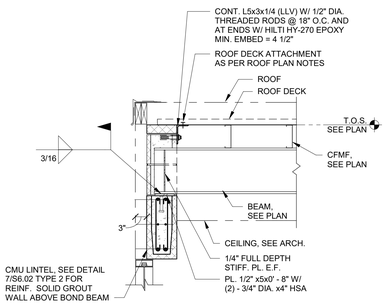
3 SCALE: 1" = 1'-0"

TYPICAL DETAIL AT VALLEY



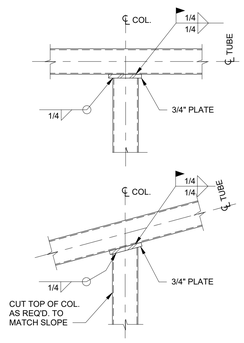
18 SCALE: 3/4" = 1'-0"

TYPICAL DETAIL EXTERIOR EDGE AT CMU WALL



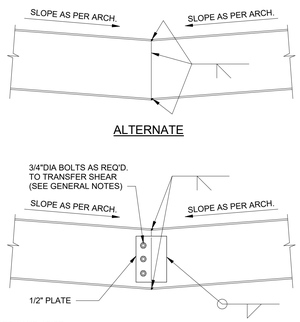
14 SCALE: 3/4" = 1'-0"

TYPICAL DETAIL EXTERIOR EDGE AT CMU WALL



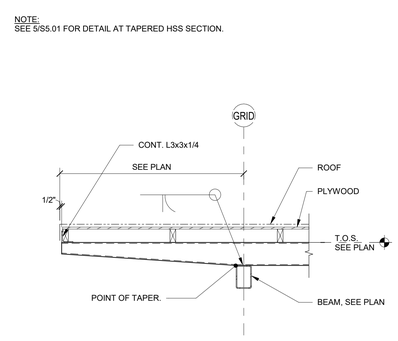
10 SCALE: N.T.S.

TYPICAL DETAIL HSS BEAM TO HSS COLUMN CONNECTION



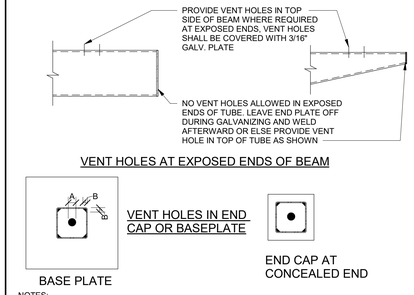
6 SCALE:N.T.S.

TYPICAL DETAIL BROKEN BACK BEAM (MOMENT CONNECTION)



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

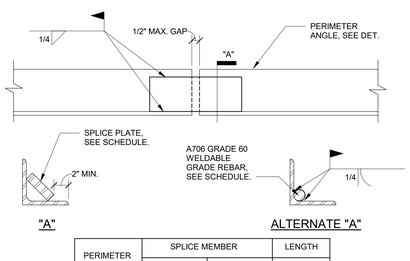
ROOF FRAMING AT FRONT OF DUGOUT



NOTES:
1. NO VENT HOLES SHALL BE ALLOWED IN GALVANIZED STRUCTURAL STEEL AT LOCATIONS OPEN TO PUBLIC VIEW AFTER FINAL CONSTRUCTION.
2. PROVIDE VENT HOLES IN CONCEALED END CAPS AND BASE PLATES, OR ELSE WELD END CAPS OR BASE PLATES AFTER GALVANIZING.
3. DIMENSIONS "A" AND "B" SHALL BE AS SPECIFIED IN ASTM A 385. ALTERNATIVE OPENING CONFIGURATIONS CONSISTENT WITH THIS ASTM ARE ALSO ACCEPTABLE.

17 SCALE:N.T.S.

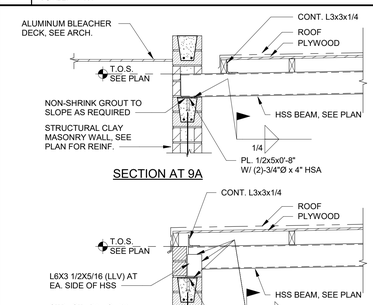
TYPICAL DETAIL GALVANIZED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL



PERIMETER ANGLE	SPLICE MEMBER		LENGTH
	PLATE	REBAR	L(INCH)
L3x3x1/4	1/2x2 3/4	#7 BAR	9"
L5x3x1/4	1/2x2 3/4	#7 BAR	9"

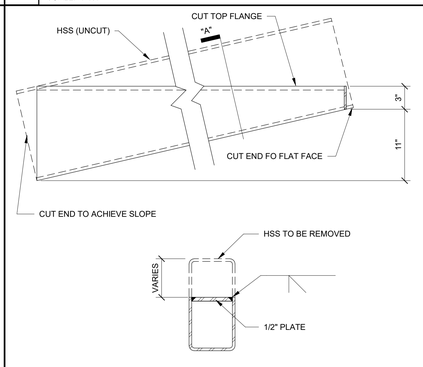
13 SCALE: N.T.S.

TYPICAL DETAIL SPLICE AT PERIMETER ROOF ANGLE



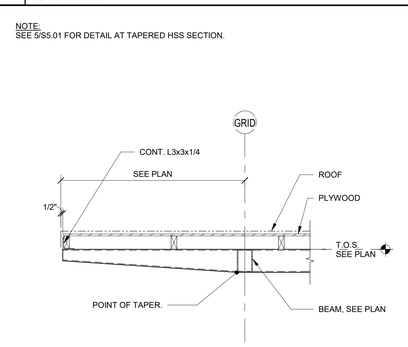
9A
9 SCALE: N.T.S.

TYPICAL DETAIL STEEL BEAM AT STRUCTURAL BRICK WALL



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

DETAIL FOR TAPERED HSS



1 SCALE: N.T.S.

ROOF FRAMING AT FRONT OF DUGOUT

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New Softball Complex

1515 Cherrybrook Lane
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PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2640
STATE OF TEXAS
KHALIL TABAJA
127172
LICENSED PROFESSIONAL ENGINEER
11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information

Date	11 NOV 2025
Job Number	23-012
Drawn	KN
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Title

ROOF FRAMING DETAILS

Sheet

S5.01

CONSTRUCTION DOCUMENTS

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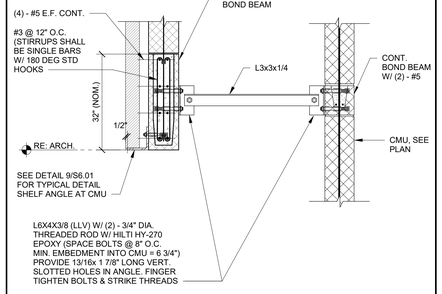
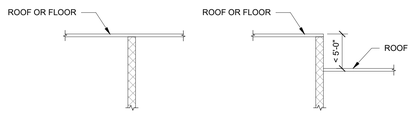
BINDING EDGE

NOTE:
SEE DETAIL 9/S6.01 FOR INFORMATION NOT SHOWN FOR SHELF ANGLE AT CMU



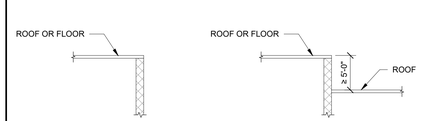
20 DETAIL AT CMU LINTEL
SCALE: 3/4" = 1'-0"



WALL THICKNESS	VERTICAL REINFORCING
6"	#5 @ 48" O.C.

NOTES:
1. LOAD BEARING WALL IS DEFINED AS A WALL SUPPORTING MEZZANINE FLOOR OR ROOF.
2. ALL REINFORCING SHALL BE CONTINUOUS BETWEEN FOUNDATION AND TOP OF WALL. ALL REINFORCED CELLS SHALL BE GROUTED SOLID.
3. AT FOUNDATION, PROVIDE DOWELS TO MATCH VERTICAL REINFORCING BARS.
4. PROVIDE CONTINUOUS BOND BEAMS AT TOP OF WALLS. REINFORCE BOND BEAMS WITH (2) - #5 UNLESS NOTED OTHERWISE.
5. IF A WALL IS AN EXTERIOR WALL, THEN USE LARGER REINF. FOR EXTERIOR WALL AND SHOWN ABOVE.

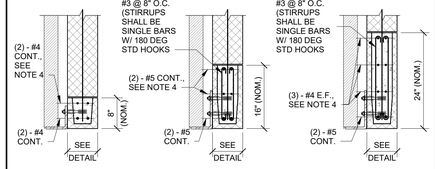
10 TYPICAL DETAIL INTERIOR LOAD-BEARING WALLS
SCALE: N.T.S.



WALL THICKNESS	UNBRACED HEIGHT	VERTICAL REINFORCING
8"	29' - 0" MAX	(2)-#5 @ 32" O.C.

NOTES:
1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. ALL REINFORCING STEEL SHALL BE CONTINUOUS BETWEEN FOUNDATION AND TOP OF CMU. SPLICE REINFORCING PER GENERAL NOTES. ALL REINFORCED CELLS SHALL BE GROUTED SOLID.
3. AT FOUNDATION, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL BARS.
4. CONSULT WITH ARCH./EOR WHEN HEIGHT OF WALL EXCEEDS THE HEIGHT SHOWN HERE.
5. PROVIDE CONTINUOUS BOND BEAMS AT THE TOP OF WALLS. REINFORCE BOND BEAMS WITH (2) - #5, UNLESS NOTED OTHERWISE.

12 TYPICAL DETAIL EXTERIOR/ PERIMETER CMU WALL
SCALE: N.T.S.

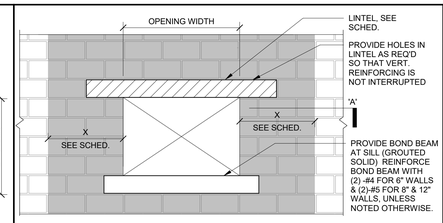


TYPE 1 AT 8" CMU TYPE 2 AT 8" CMU TYPE 3 AT 8" CMU

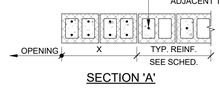
BOND BEAM MAX CLEAR SPAN SCHEDULE								
CMU	WALL GROUT SPACING	CARRIED BRICK H (FT)	TYPE 1		TYPE 2		TYPE 3	
			RUNNING BOND	STACK BOND	RUNNING BOND	STACK BOND	RUNNING BOND	STACK BOND
8"	>16" O.C.	12	4'-8"	4'-0"	8'-0"	6'-8"	12'-0"	11'-0"
		20	NA	NA	6'-8"	6'-0"	11'-4"	10'-4"
		35	NA	NA	5'-4"	5'-0"	10'-4"	9'-8"

NOTES:
1. SEE 7/S6.02 FOR NOTES

8 TYPICAL DETAIL BLOCK LINTEL AT EXTERIOR OR LOAD BEARING WALLS CARRYING BRICK
SCALE: N.T.S.



NOTE:
NO CONTROL JOINTS ALLOWED WITHIN SHADED AREA.



SECTION 'A'

8" CMU WALL

OPENING SIZE	JAMB WIDTH 'X'	JAMB REINF.
≤ 6' - 0"	2' - 0"	(2) - #5 @ 8" O.C.

STRUCTURAL BRICK

OPENING SIZE	JAMB WIDTH 'X'	JAMB REINF.
≤ 6' - 0"	1' - 0"	(1) - #5 @ 8" O.C.

4 CMU JAMB REINFORCING SCHEDULE
SCALE: N.T.S.

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New Softball Complex

1515 Cherrybrook Lane
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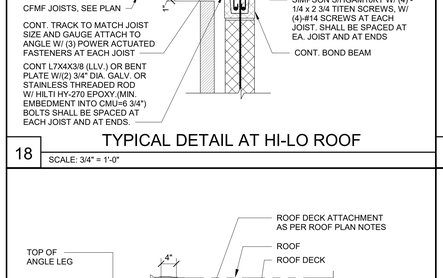
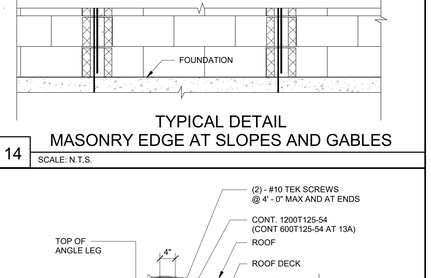
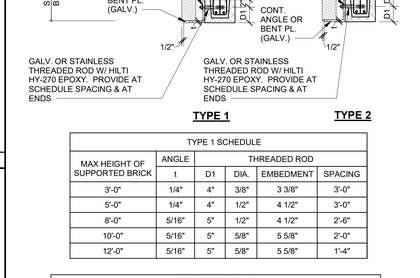
PASADENA INDEPENDENT SCHOOL DISTRICT



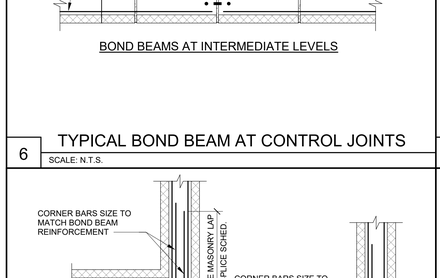
19 ROOF DETAIL AT CMU WALL AT TICKET BOOTH
SCALE: 3/4" = 1'-0"



15 TYPICAL DETAIL AT CMU PILASTER REINFORCEMENT
SCALE: N.T.S.



11 TYPICAL FRAMING AT LOAD BEARING WALL
SCALE: 3/4" = 1'-0"



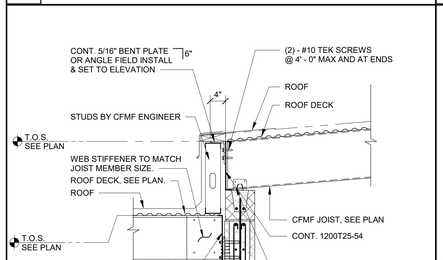
NOTES:
1. REINFORCEMENT MUST BE PLACED USING REINFORCING BAR POSITIONERS THAT LOCATE THE BAR AS SPECIFIED AND PREVENT MOVEMENT OF THE BAR DURING CONSTRUCTION.
2. SPLICED REINFORCEMENT MUST BE A CONTACT LAP SPLICE WITH SPLICED BARS ALIGNED PARALLEL TO THE WALL AS SHOWN.
3. THE ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF REINFORCEMENT THAT IS REQUIRED TO BE PLACED OUTSIDE OF THE TOLERANCES OF THIS DETAIL SUCH AS TO AVOID INTERFERENCE WITH OTHER REINFORCEMENT, CONDUITS, OR EMBEDDED ITEMS.
4. CONDUIT, PIPES AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER (USE LARGER DIAMETER WHERE MULTIPLE SIZES ARE USED).
5. ALUMINUM PIPES MAY NOT BE USED UNLESS EFFECTIVELY COATED TO PREVENT CHEMICAL REACTION.
6. PIPES SHALL NOT BE EMBEDDED IN MASONRY WHEN:
   (a) CONTAINING LIQUIDS, GAS, OR VAPORS AT A TEMPERATURE HIGHER THAN 150°F (66°C).
   (b) UNDER PRESSURE IN EXCESS OF 55 PSI (379 KPA).
   (c) CONTAINING WATER OR OTHER LIQUIDS SUBJECT TO FREEZING.

7 TYPICAL DETAIL CMU VERTICAL BAR PLACEMENT
SCALE: N.T.S.

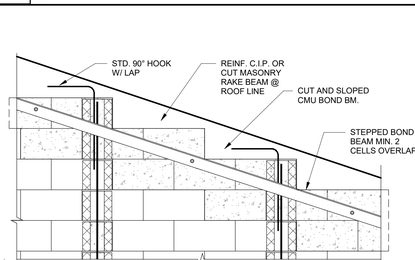
BAR SIZE	MINIMUM LAP SPLICE LENGTH: REINFORCEMENT AT CENTER OF WALL: 6" CMU	8" CMU	10" CMU	12" CMU	REINFORCEMENT OFF CENTER: ANY
3	12	12	12	12	19
4	20	15	12	12	34
5	32[4]	23	18	15	45
6	54[4]	43	34	28	54
7	NA[5]	60	46	38	63
8	NA[5]	72	71	57	72

NOTES:
1. TABLE FOR USE WITH GRADE 60 UNCOATED REINF. BARS IN CMU (f'm = 1500 psi)
2. BARS SPLICED BY NON-CONTACT LAP SPLICE SHALL NOT BE SPACED FARTHER APART THAN, ONE-FIFTH THE REQUIRED LAP LENGTH, OR 8".
3. LAP LENGTHS PER IBC 2018.
4. PERMITTED ONLY IF ALL MORTAR FINS ARE REMOVED ROM THE CELL TO BE GROUTED.
5. BAR EXCEEDS MAX. ALLOWABLE SIZE.

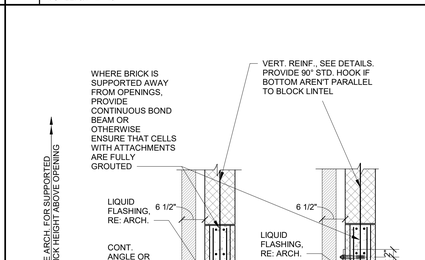
3 TYPICAL DETAIL MASONRY TENSION LAP SPLICE (INCHES)
SCALE: N.T.S.



18 TYPICAL DETAIL AT HI-LO ROOF
SCALE: 3/4" = 1'-0"



14 TYPICAL DETAIL MASONRY EDGE AT SLOPES AND GABLES
SCALE: N.T.S.



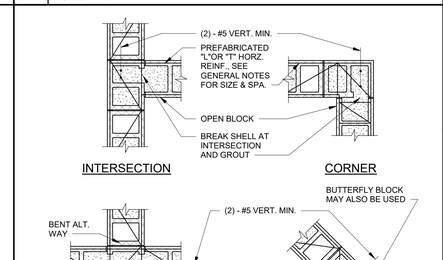
TYPE 1 TYPE 2

TYPE 1 SCHEDULE					
MAX HEIGHT OF SUPPORTED BRICK	ANGLE	THREADED ROD			
	t	D1	DIA.	EMBEDMENT	SPACING
3'-0"	1/4"	4"	3/8"	3 3/8"	3'-0"
5'-0"	1/4"	4"	1/2"	4 1/2"	3'-0"
8'-0"	5/16"	5"	1/2"	4 1/2"	2'-6"
10'-0"	5/16"	5"	5/8"	5 5/8"	2'-0"
12'-0"	5/16"	5"	5/8"	5 5/8"	1'-4"

TYPE 2 SCHEDULE							
MAX HEIGHT OF SUPPORTED BRICK	ANGLE	THREADED ROD					
	t	D1	D2	DIA.	EMBEDMENT	SPACING	
10'-0"	5/16"	4"	4"	3/8"	3 3/8"	3'-0"	
12'-0"	3/8"	4"	4"	1/2"	4 1/2"	3'-0"	
15'-0"	3/8"	4"	4"	1/2"	4 1/2"	2'-6"	
20'-0"	3/8"	4"	4"	5/8"	5 5/8"	2'-0"	
25'-0"	3/8"	5"	4"	5/8"	5 5/8"	2'-0"	
30'-0"	3/8"	5"	4"	5/8"	6 3/4"	1'-4"	
35'-0"	7/16"	5"	4"	5/8"	6 3/4"	1'-4"	

NOTES:
1. WHERE TWO SOLUTIONS ARE PROVIDED FOR A GIVEN HEIGHT, CONTRACTOR MAY CHOOSE BETWEEN TYPE 1 & TYPE 2.
2. MAX. HEIGHT OF SUPORTED BRICK SHALL BE FROM TOP OF OPENING TO TOP OF WALL UNLESS ANOTHER OPENING OF GREATER OR EQUAL WIDTH IS PROVIDED ABOVE THE OPENING.
3. SEE TYPICAL DETAIL " ANGLE OR BENT PLATE SUBSTITUTION FOR OPTIONAL ALTERNATES.

9 TYPICAL DETAIL SHELF ANGLE AT CMU
SCALE: N.T.S.



6 TYPICAL BOND BEAM AT CONTROL JOINTS
SCALE: N.T.S.

2 CMU WALL INTERSECTIONS
SCALE: N.T.S.

Matrix Structural Engineers
TBPE Firm Registration No. F-2640
STATE OF TEXAS
KHALIL TABAJA
NAL ENGINEER
11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

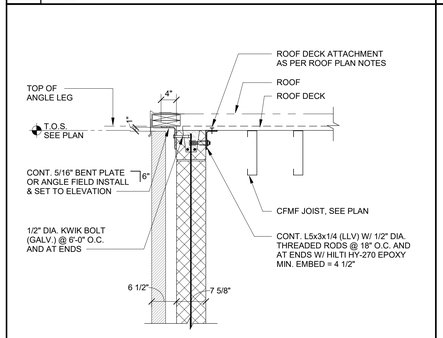
Title

TYPICAL CMU WALL DETAILS

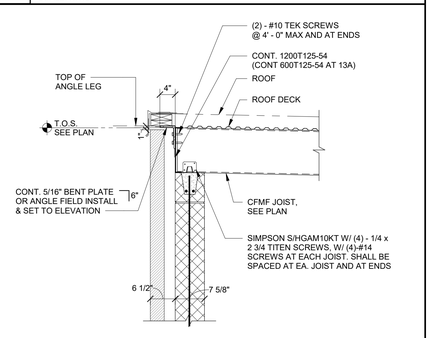
Sheet

S6.01

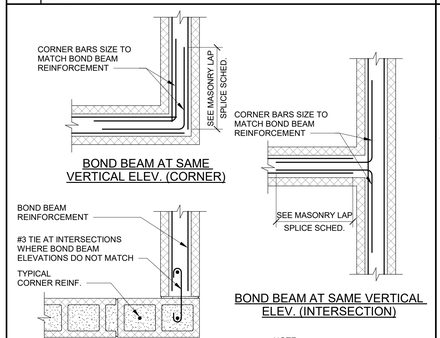
CONSTRUCTION DOCUMENTS



17 TYPICAL ROOF FRAMING AT CMU WALL
SCALE: 3/4" = 1'-0"

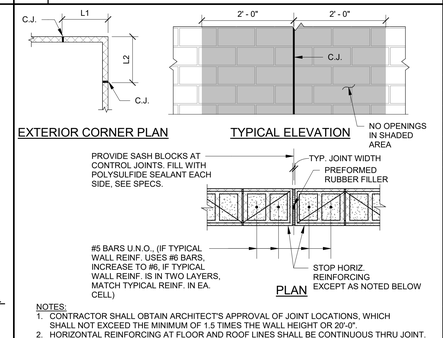


13 TYPICAL ROOF FRAMING AT CMU WALL
SCALE: 3/4" = 1'-0"



NOTE:
OMIT CORNER BARS AT CONTROL JOINT LOCATIONS AS INDICATED ON TYPICAL CMU ELEVATION.

5 TYPICAL CMU BOND BEAM REINFORCEMENT
SCALE: N.T.S.



NOTES:
1. CONTRACTOR SHALL OBTAIN ARCHITECT'S APPROVAL OF JOINT LOCATIONS, WHICH SHALL NOT EXCEED THE MINIMUM OF 1.5 TIMES THE WALL HEIGHT OR 20'-0".
2. HORIZONTAL REINFORCING AT FLOOR AND ROOF LINES SHALL BE CONTINUOUS THRU JOINT.
3. CONCRETE BLOCK SHOWN - BRICK SIMILAR.
4. SAW/CUT BLOCK OR BRICK AS REQUIRED.
5. AT EXTERIOR CORNERS LOCATE JOINTS SUCH THAT:
   L1+L2 ≤ 20' - 0",
   EITHER L1 OR L2 ≤ 10' - 0".

1 MASONRY WALL CONTROL JOINT
SCALE: N.T.S.

BINDING EDGE

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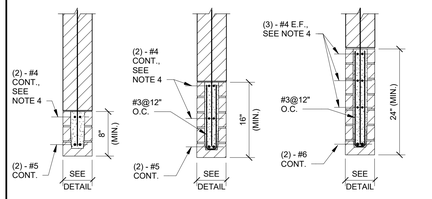
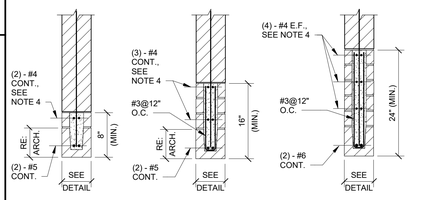
BINDING EDGE



FOR OPENING LESS THAN 5' - 0" WIDE | FOR OPENING 5' - 0" TO 8' - 0" WIDE | FOR OPENING OVER 8' - 0" UP TO 14' - 6" WIDE



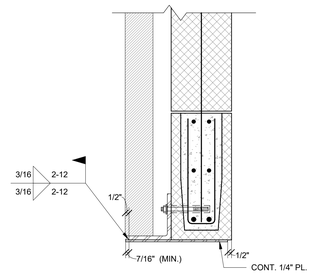
TYPICAL SOLDIER COURSE FOR OPENING LESS THAN 5' - 0" WIDE | TYPICAL SOLDIER COURSE FOR OPENING 5' - 0" T0 TO 8' - 0" WIDE | TYPICAL SOLDIER COURSE FOR OPENING FOR OPENING OVER 8' - 0" UP TO 14' - 6" WIDE

NOTES:
1. SEE ARCH. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING @ EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 8". REINF. SHALL PROJECT A MIN. OF 6" ONTO THE BEARING CMU.
3. BOND BEAMS SHALL BE FULLY GROUTED (2500 PSI @ 28 DAYS).
4. THE #4 BARS ARE ONLY REQUIRED AT EXTERIOR CMU WALLS.

TYPICAL DETAIL
EXTERIOR CLAY MASONRY BLOCK LINTEL

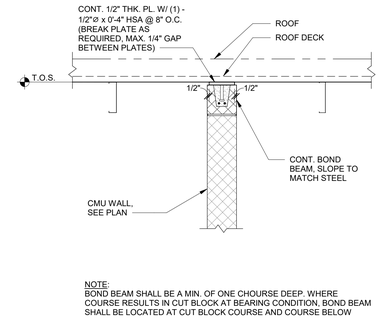
11 SCALE:NTS

NOTE:
SEE DETAIL 9/S6.01 FOR INFORMATION NOT SHOWN FOR SHELF ANGLE AT CMU



TYPICAL OVERHEAD DOOR

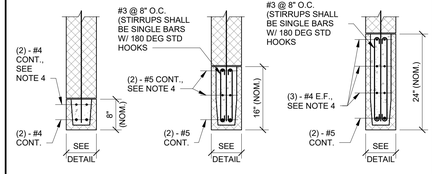
8 SCALE: 1 1/2" = 1'-0"



NOTE:
BOND BEAM SHALL BE A MIN. OF ONE CHOURSE DEEP. WHERE COURSE RESULTS IN CUT BLOCK AT BEARING CONDITION, BOND BEAM SHALL BE LOCATED AT CUT BLOCK COURSE AND COURSE BELOW

TYPICAL DETAIL AT CMU WALL

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



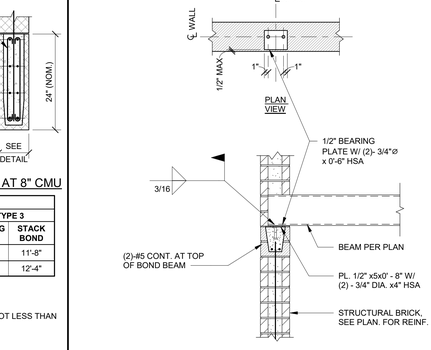
TYPE 1 AT 8" CMU | TYPE 2 AT 8" CMU | TYPE 3 AT 8" CMU

BOND BEAM MAX CLEAR SPAN SCHEDULE							
CMU	WALL GROUT SPACING	TYPE 1		TYPE 2		TYPE 3	
		RUNNING BOND	STACK BOND	RUNNING BOND	STACK BOND	RUNNING BOND	STACK BOND
8"	16" O.C.	6'-4"	5'-0"	9'-4"	7'-8"	13'-4"	11'-8"
	>32" O.C.	7'-0"	5'-8"	10'-4"	8'-8"	14'-0"	12'-4"

NOTES:
1. SEE ARCH. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING @ EACH JAMB FOR EACH FOOT OF CLEARSPAN BUT NOT LESS THAN 8" REINF. SHALL PROJECT A MIN. OF 6" ONTO THE BEARING CMU.
3. BOND BEAMS SHALL BE FULLY GROUTED (2500 PSI @ 28 DAYS).
4. THE #4 FACE BARS ARE ONLY REQUIRED AT EXTERIOR CMU WALLS.

TYPICAL DETAIL BLOCK LINTEL AT EXTERIOR OR LOAD BEARING WALLS

7 SCALE: N.T.S.



TYPICAL DETAIL HSS BEAM AT STRUCTURAL BRICK

3 SCALE: N.T.S.

AIR SPACE THICKNESS + 1" SEE NOTE 5
WHERE HOLLOW BRICK OR MASONRY IS USED SHADED UNITS SHALL BE FULLY GROUTED
NOM. UNIT HEIGHT
P
P_C
P P P
P_C
CMU OR STUD BACK-UP
NOM. UNIT THICKNESS
AIR SPACE THICKNESS
NOM. WALL THICKNESS

AT SINGLE WYTHE | AT MULTI WYTHE

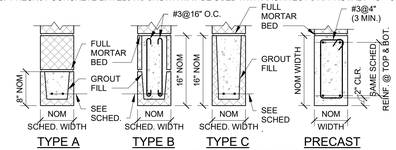
NOTES:
1. P_C INDICATES ALLOWABLE TOTAL HORIZONTAL PROJECTION OF CORBELLING.
2. P INDICATES ALLOWABLE PROJECTION OF ONE UNIT.
3. P_C SHALL BE LESS THAN OR EQUAL TO ONE-HALF OF NOMINAL UNIT THICKNESS.
4. P SHALL BE LESS THAN OR EQUAL TO THE LESSER OF ONE-HALF OF NOMINAL UNIT HEIGHT OR ONE-THIRD OF NOMINAL UNIT THICKNESS.
5. THE BACK SURFACE OF THE CORBELLED SECTION SHALL REMAIN WITHIN 1" OF PLANE.

TYPICAL DETAIL
CORBELS AT MASONRY VENEER

15 SCALE:N.T.S.

CLEAR SPAN	REINFORCING REQUIREMENTS IN NOMINAL LINTEL SECTION							
	4x8	6x8	6x16	8x8	8x16	10x8	10x16	12x8	12x16
3-4	1-#3	1-#3	——	1-#3	——	2-#3	——	2-#3	——
4-0	1-#3	1-#4	——	2-#3	——	2-#3	——	2-#4	——
4-8	1-#4	1-#4	——	2-#4	——	2-#4	——	2-#4	——
5-4	1-#4	2-#4	——	2-#4	——	2-#4	2-#3	2-#5	——
6-0	1-#5	2-#4	1-#4	2-#4	2-#3	2-#5	2-#4	2-#5	2-#4
6-8	N/A	N/A	1-#5	N/A	2-#4	N/A	2-#4	2-#6	2-#4
7-4	↑	↑	1-#5	↑	2-#4	↑	2-#4	N/A	2-#5
8-0	↓	↓	1-#6	↓	2-#4	↓	2-#5	↑	2-#5
8-8	↓	↓	1-#6	↓	2-#5	↓	2-#5	↓	2-#6
9-4	N/A	N/A	1-#7	N/A	2-#5	N/A	2-#6	N/A	2-#6

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 8". REINFORCEMENT SHALL PROJECT A MINIMUM OF 6" ONTO THE BEARING.
3. MINIMUM MASONRY COMPRESSIVE STRENGTH OF GROUTED PRISM F 'M = 2000 PSI.
4. LINTELS SCHEDULED AT 16" HIGH MAY BE EITHER TYPE "B" OR TYPE "C" AS DETAILED BELOW.
5. PRECAST CONCRETE LINTELS AS SHOWN MAY BE USED WITH ARCHITECT'S APPROVAL. F ' C = 3000 PSI

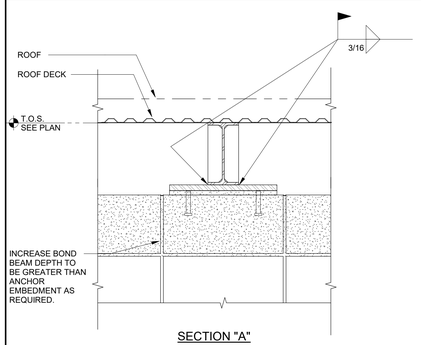


TYPE A | TYPE B | TYPE C | PRECAST

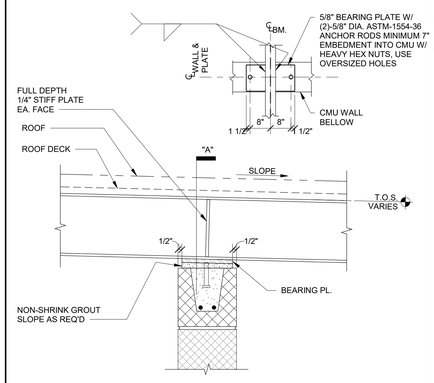
NON-LOAD BEARING
BLOCK LINTEL SCHEDULE

2 SCALE: N.T.S.

3/16"

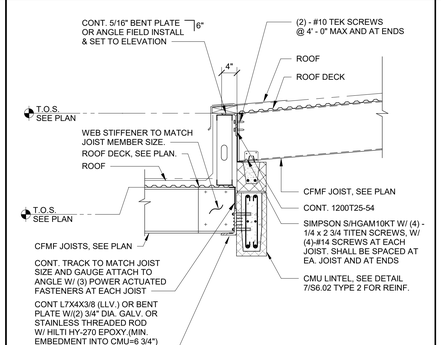


SECTION "A"



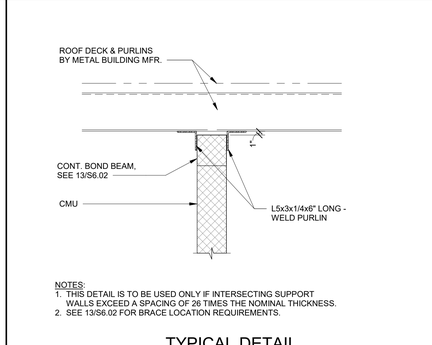
TYPICAL DETAIL
BEAM OVER BEARING WALL

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



TYPICAL DETAIL AT HI-LO ROOF (CMU LINTEL)

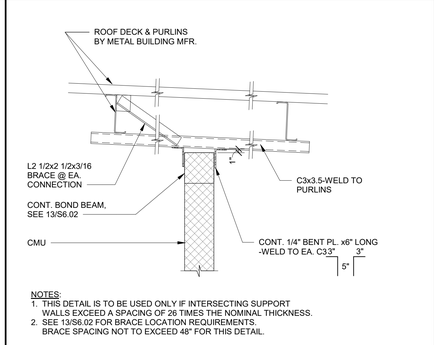
14 SCALE: 3/4" = 1'-0"



NOTES:
1. THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 26 TIMES THE NOMINAL THICKNESS.
2. SEE 13/S6.02 FOR BRACE LOCATION REQUIREMENTS.

TYPICAL DETAIL
INTERIOR NON-LOAD BEARING
CMU WALL TOP CONNECTION
PERPENDICULAR TO PURLINS

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



NOTES:
1. THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 26 TIMES THE NOMINAL THICKNESS.
2. SEE 13/S6.02 FOR BRACE LOCATION REQUIREMENTS.
BRACE SPACING NOT TO EXCEED 48" FOR THIS DETAIL.

TYPICAL DETAIL
INTERIOR NON-LOAD BEARING CMU WALL
TOP CONNECTION PARALLEL TO PURLINS

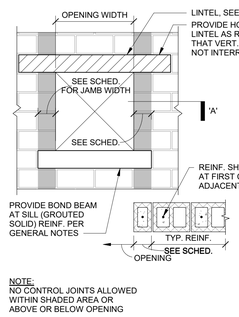
6 SCALE: 3/4" = 1'-0"

INTERIOR NON-LOAD BEARING CMU WALL JAMB SCHEDULE							
WALL THICKNESS	SPANNING CMU HEIGHT	OPENING WIDTH					
		< 3' - 0"		< 6' - 0"		< 10' - 0"	
		# OF CELLS	REINF.	# OF CELLS	REINF.	# OF CELLS	REINF.
6"	14' - 0"	1	#4	1	#4	1	#4
6"	22' - 0"	1	#4	2	#4	2	#4
6"	33' - 0"	3	#5	4	#5	7	#5
6"	38' - 0"	5	#5	10	#5	NA	NA
8"	20' - 0"	1	#5	1	#5	1	#5
8"	37' - 6"	2	#5	2	(2)-#5	2	(2)-#5
8"	50' - 0"	3	(2)-#5	4	(2)-#6	5	(2)-#6
10"	24' - 0"	1	#5	1	#5	1	#5
10"	48' - 0"	1	(2)-#5	2	(2)-#5	2	(2)-#6
10"	58' - 0"	2	(2)-#5	3	(2)-#6	4	(2)-#6
12"	27' - 0"	1	#5	1	#5	1	#5
12"	52' - 0"	1	(2)-#5	2	(2)-#5	2	(2)-#6
12"	63' - 0"	2	(2)-#6	4	(2)-#6	6	(2)-#6

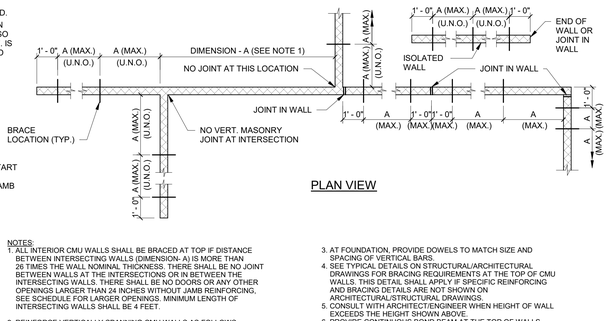
6" WALL SCHEDULE	
MAX HEIGHT	VERTICAL REINFORCING
14' - 0"	NONE
15' - 6"	GROUT @ 48"
20' - 0"	(1)-#4 @ 56"
22' - 0"	(1)-#4 @ 48"
29' - 6"	(1)-#4 @ 24"
33' - 0"	(1)-#4 @ 16"
38' - 0"**	(1)-#4 @ 8"

8" WALL SCHEDULE	
MAX HEIGHT	VERTICAL REINFORCING
20' - 0"	NONE
22' - 0"	GROUT @ 48"
27' - 0"	(1)-#5 @ 64"
33' - 6"	(1)-#5 @ 48"
37' - 6"	(1)-#5 @ 32"
43' - 0"	(2)-#5 @ 40"
50' - 0"	(2)-#5 @ 16"

** ONLY ALLOWED IF MAX OPENING IN WALL IS LESS THAN 6'-0" WITH 7'-0" JAMBS TO THE SIDE OF OPENING



NOTE:
NO CONTROL JOINTS ALLOWED WITHIN SHADED AREA OR ABOVE OR BELOW OPENING



NOTES:
1. ALL INTERIOR CMU WALLS SHALL BE BRACED AT TOP IF DISTANCE BETWEEN INTERSECTING WALLS (DIMENSION- A) IS MORE THAN 26 TIMES THE WALL NOMINAL THICKNESS. THERE SHALL BE NO JOINT BETWEEN WALLS AT THE INTERSECTIONS OR IN BETWEEN THE INTERSECTING WALLS. THERE SHALL BE NO DOORS OR ANY OTHER OPENINGS LARGER THAN 24 INCHES WITHOUT JAMB REINFORCING. SEE SCHEDULE FOR LARGER OPENINGS. MINIMUM LENGTH OF INTERSECTING WALLS SHALL BE 4 FEET.
2. REINFORCE VERTICALLY SPANNING CMU WALLS AS FOLLOWS:
3. AT FOUNDATION, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL BARS.
4. SEE TYPICAL DETAILS ON STRUCTURAL/ARCHITECTURAL DRAWINGS FOR BRACING REQUIREMENTS AT THE TOP OF CMU WALLS. THIS DETAIL SHALL APPLY IF SPECIFIC REINFORCING AND BRACING DETAILS ARE NOT SHOWN ON ARCHITECTURAL/STRUCTURAL DRAWINGS.
5. CONSULT WITH ARCHITECT/ENGINEER WHEN HEIGHT OF WALL EXCEEDS THE HEIGHT SHOWN ABOVE.
6. PROVIDE CONTINUOUS BOND BEAM AT THE TOP OF WALLS. REINFORCE BOND BEAMS WITH (2) - #4 FOR 6" WALLS & (2)-#5 FOR 8" & 12" WALLS. UNLESS NOTED OTHERWISE.
7. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
8. CONTACT E.G.R. FOR CONDITIONS NOT LISTED ON SCHEDULE.

TYPICAL DETAIL - NON-LOAD BEARING INTERIOR/CMU WALLS BRACING AND REINFORCING STEEL

13 SCALE: N.T.S.

BINDING EDGE

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New Softball Complex

1515 Cherrybrook Lane
Pasadena, Texas 77502
PASADENA INDEPENDENT SCHOOL DISTRICT

Matrix Structural Engineers
TBPE Firm Registration No. F-2540
STATE OF TEXAS
KHALIL TABAJA
CIVIL
11/10/2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11 NOV 2025
Job Number	23-012
Drawn	RJC/KG
Checked	LB
Approved	KT

Title

TYPICAL CMU WALL DETAILS

Sheet

S6.02

CONSTRUCTION DOCUMENTS

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BINDING EDGE

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GATE SCHEDULE

Mark	Construction Type	Door Width	Door Height	Door Material	Door Thickness	Door Finish	HDW	Frame Material	Frame Finish	NOTE
G1	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1 ,5, & 8
G2	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1 & 5
G3	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1 & 5
G4	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1 & 5
G5	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1,5 & 9
G6	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1,5 & 9
G7	DSG	7' - 7"	8' - 0"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2 & 7
G8	DSG	7' - 8 1/4"	7' - 9 1/2"	WD	0' - 2 1/4"	PAINT	J-2NO PL	STL.	PAINT	2
G9	SG	4' - 0"	8' - 0"	FMP		PREFIN.		STL	P-8	2
G10	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2
G11	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2 & 7
G12	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1,5 & 9
G13	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1,5 & 9
G14	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2 & 7
G15	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2
G16	SG	4' - 0"	8' - 0"	FMP		PREFIN.		STL.	P-8	2
G17	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2
G18	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2
G19	SLG	20' - 0"	6' - 0"	WWM		PREFIN.	J-PL-SL	STL.	PREFIN.	3, 4 & 5
G20	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1,5 & 9
G21	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2 & 7
G22	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2
G23	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2 & 7
G24	DSG	7' - 8 1/4"	7' - 9 1/2"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2
G25	SG	4' - 0"	6' - 0"	WWM		PREFIN.	J715	STL.	PREFIN.	1,5 & 9
G26	SLG	20' - 0"	6' - 0"	WWM		PREFIN.	J-PL-SL	STL.	PREFIN.	3, 4 & 5

GATE SCHEDULE

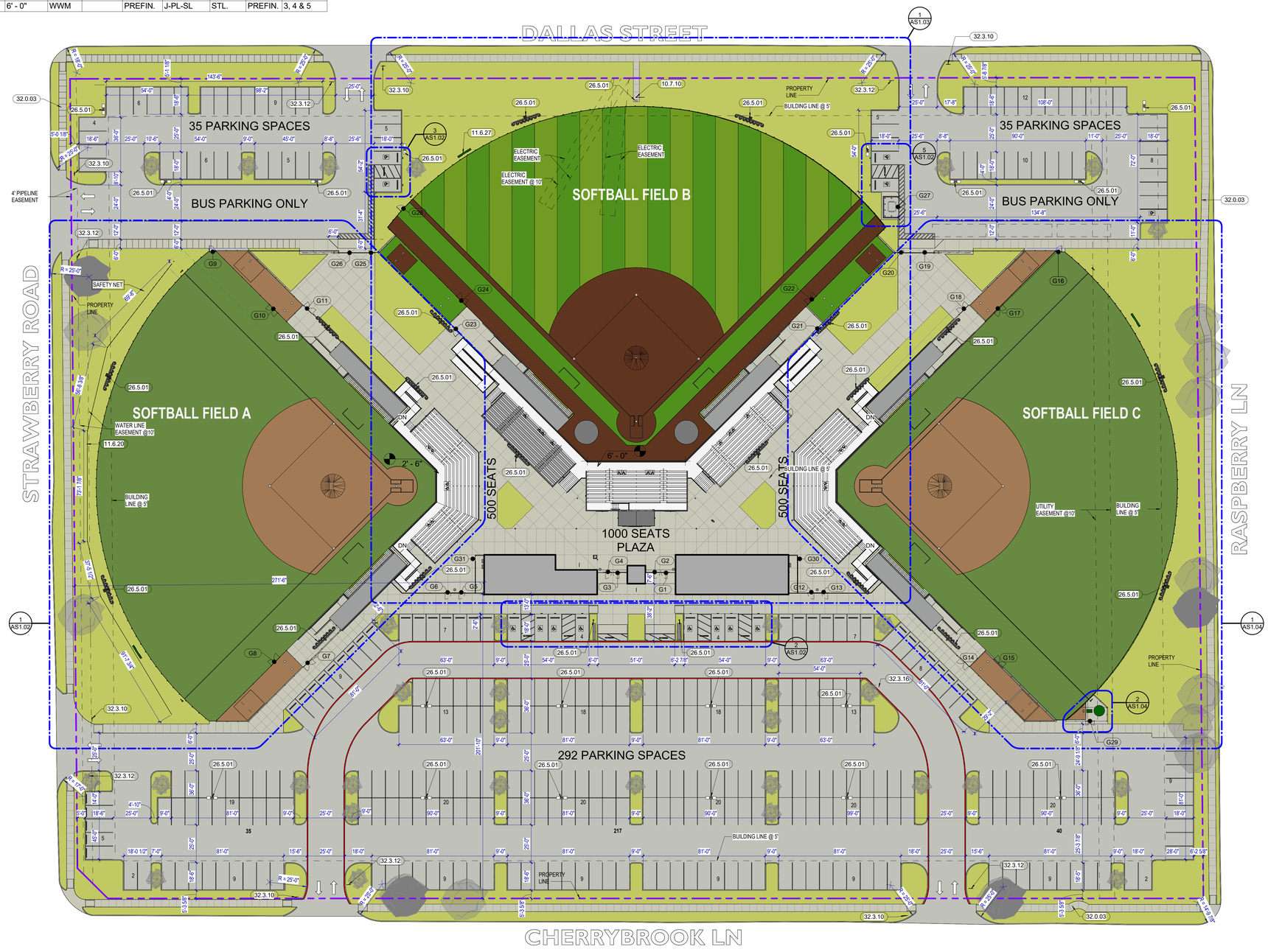
Mark	Construction Type	Door Width	Door Height	Door Material	Door Thickness	Door Finish	HDW	Frame Material	Frame Finish	NOTE
G27	DSG	12' - 0"	6' - 0"	WMP		PREFIN	J-PL-SL	STL	P-	2
G28	SG	4' - 1 3/16"	6' - 0"	FMP		PREFIN.		STL.	P-8	2
G29	DSG	5' - 7"	8' - 0"	VCLF	0' - 2 1/4"	PREFIN.	J-2NO PL	STL.	PREFIN.	2 & 7
G30	SG	4' - 0"	6' - 0"	WWM		PREFIN.		STL.	PREFIN.	2
G31	SG	4' - 0"	6' - 0"	WWM		PREFIN.		STL.	PREFIN.	2
G40	SG	3' - 8 1/4"	7' - 10 3/4"	VCLF	0' - 2 1/4"	PREFIN.		STL.	PREFIN.	3
G41	SG	3' - 8 1/4"	7' - 10 3/4"	VCLF	0' - 2 1/4"	PREFIN.		STL.	PREFIN.	3
G42	SG	3' - 9 1/2"	7' - 10 3/4"	VCLF	0' - 2 1/4"	PREFIN.		STL.	PREFIN.	3
G43	SG	3' - 8 1/4"	7' - 10 3/4"	VCLF	0' - 2 1/4"	PREFIN		STL.	PRE-FIN	3
G55	SG	3' - 8 1/4"	7' - 10 3/4"	VCLF	0' - 2 1/4"	PREFIN.		STL.	PREFIN.	2

NOTES:

1. PROVIDE REQUIRED PANIC HARDWARE AND PERFORATED BACK PANEL. SEE GATE ELEVATION FOR ADDITIONAL INFORMATION
2. PROVIDE LOCKING HASP AND CANES.
3. PROVIDE LOCKING HASP
4. PROVIDE KNOX BOX PER FIRE MARSHAL REQUIREMENTS
5. DUCKBILL CATCH/ HOLD
6. DOOR HARDWARE PROVIDED BY WALL SYSTEM MANUFACTURER.
7. PROVIDE PRIVACY WINDSCREEN ON GATE(S).
8. CARD READER
9. PROVIDE METAL EXIT SIGN.

LEGEND

SG - SINGLE SWING GATE
DSG - DOUBLE SWING GATE
SLG - SINGLE SLIDING GATE
FMP - FORMED METAL PANEL CLADDED STEEL FRAMED GATE
WWM - WELDED WIRE MESH GATE
WP - ATHLETIC FENCE WALL DOOR
VCLF - VINYL COATED CHAIN-LINK GATE.



1 OVERALL SITE PLAN
1" = 30'-0"

KEYED NOTES

KEYED NOTE	DESCRIPTION
10.7.10	FLAG POLE. 35'-0" HEIGHT.
11.6.20	40'-0" SAFETY NET
11.6.27	ELECTRONIC SCORBOARD, OFCI. PROVIDE SCOREBOARD SUPPORT STRUCTURE. SEE STRUCTURAL DRAWINGS.
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
32.3.10	STOP SIGN
32.3.12	VISITOR & BUS PARKING SIGN B
32.3.16	PAINTED FIRE LANE, SEE CIVIL DWGS.

PARKING ANALYSIS

TOTAL SEATING CAPACITY: 2000

TOTAL PARKING SPACES PROVIDED: **368**
(1 PARKING SPACE PER 5.4 SEATS)

ACCESSIBLE PARKING: 12 OF 368

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

OVERALL SITE PLAN

Sheet

AS1.01

CONSTRUCTION DOCUMENTS

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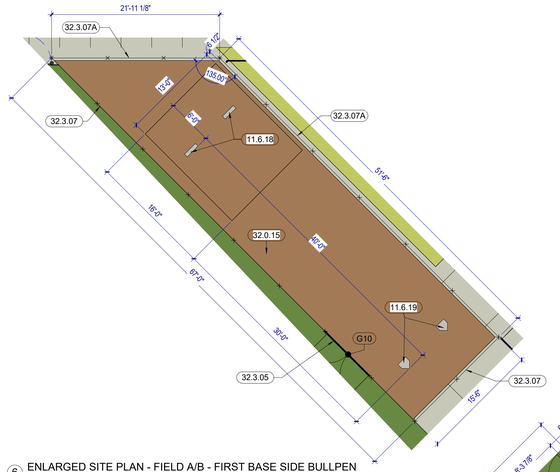
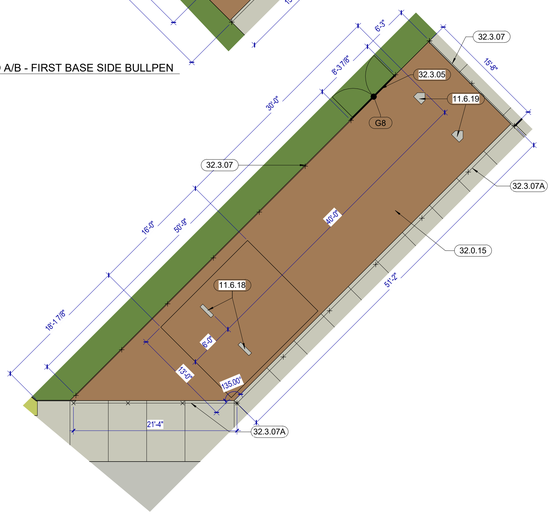


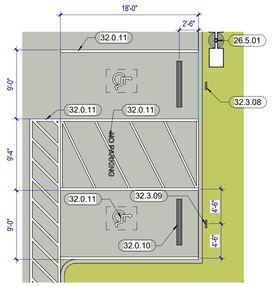
6 ENLARGED SITE PLAN - FIELD A/B - FIRST BASE SIDE BULLPEN
1/8" = 1'-0"



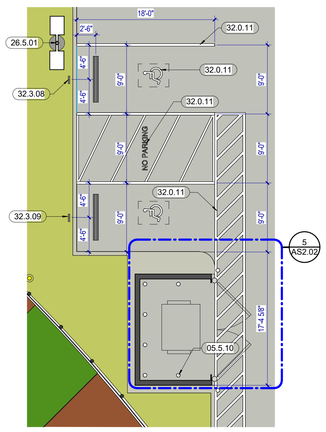
4 ENLARGED SITE PLAN - FIELD A/B - THIRD BASE SIDE BULLPEN
1/8" = 1'-0"



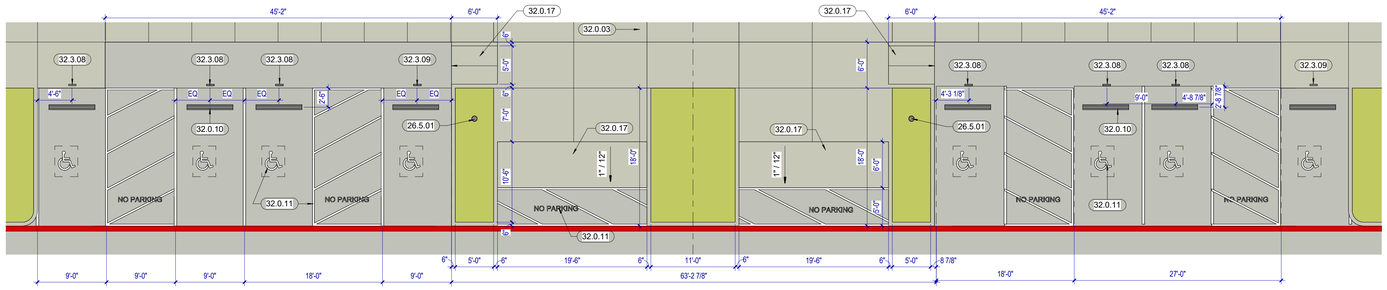
1 ENLARGED SITE PLAN - SOFTBALL FIELD A
1/16" = 1'-0"



3 ENLARGED PLAN - ACCESSIBLE PARKING
1/8" = 1'-0"



5 ENLARGED PLAN - ACCESSIBLE PARKING
1/8" = 1'-0"



2 ENLARGED PLAN - ACCESSIBLE PARKING
1/8" = 1'-0"

KEYED NOTES

KEYED NOTE	DESCRIPTION
05.5.10	STEEL PIPE BOLLARD
11.6.18	PITCHING RUBBER.
11.6.19	RUBBER BASE.
11.6.22	FOUL POLE.
11.6.23	ATHLETIC R PANEL FIELD FENCE.
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
32.0.10	CONCRETE WHEEL STOP, SEE CIVIL DRAWINGS
32.0.11	PAINTED STRIPES AND LETTERS
32.0.15	INFIELD DIRT.
32.0.16	FIELD CHALK LINE.
32.0.17	CONCRETE RAMP, SEE CIVIL DRAWINGS.
32.1.05	CHALK FIELD LINES.
32.3.01	6'-0" HIGH WELDED WIREMESH FENCE
32.3.05	8'-0" HIGH VINYL COATED CHAINLINK GATE
32.3.07	8'-0" HIGH VINYL COATED CHAINLINK FENCE
32.3.07A	8'-0" HIGH VINYL COATED CHAINLINK FENCE WITH WINDSCREEN.
32.3.08	ACCESSIBLE PARKING SIGN
32.3.09	VAN ACCESSIBLE PARKING SIGN

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PASADENA ISD
SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT
JERRY G. BEVEL
10155
STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

ENLARGED SITE PLANS - FIELD A

Sheet

AS1.02

CONSTRUCTION DOCUMENTS

BINDING EDGE

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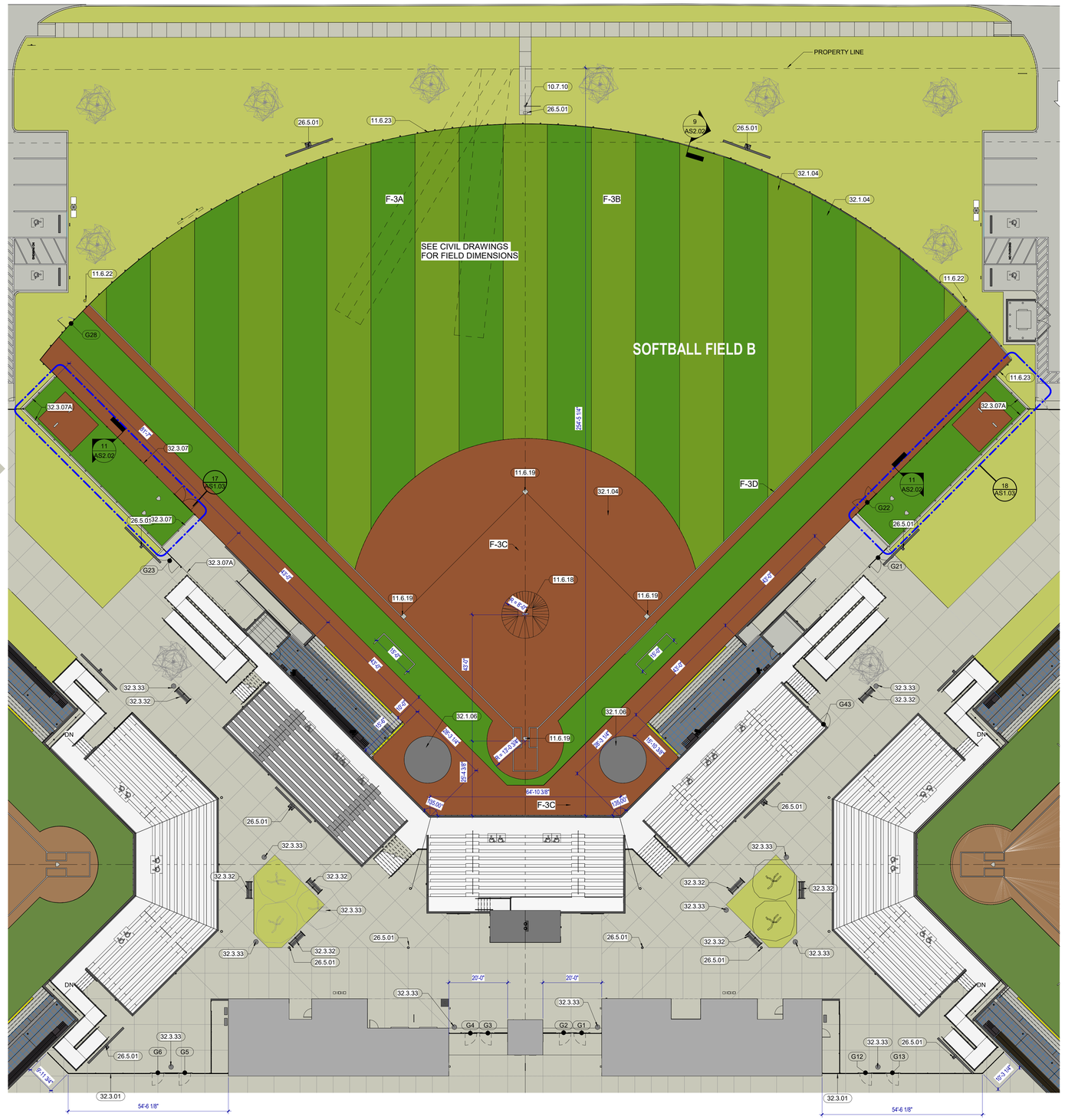
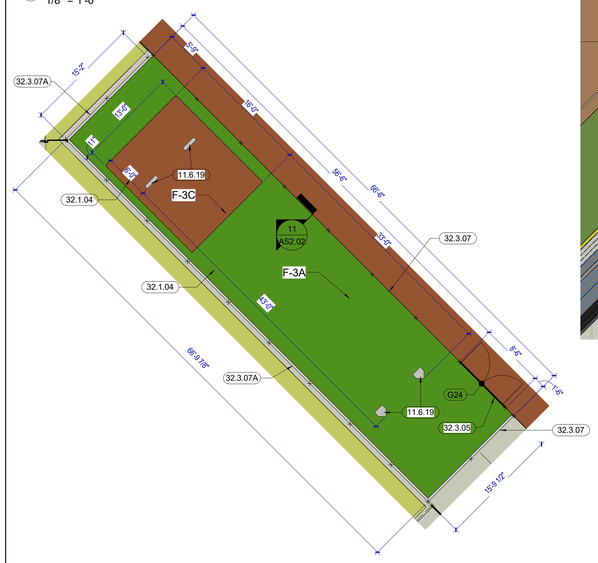


1 ENLARGED SITE PLAN - SOFTBALL FIELD B
1/16" = 1'-0"



18 ENLARGED PLAN - FIELD B EAST BULLPEN
1/8" = 1'-0"



17 ENLARGED PLAN - FIELD B WEST BULLPEN
1/8" = 1'-0"

BINDING EDGE

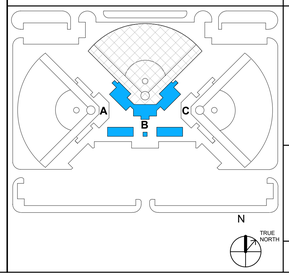
KEYED NOTES

KEYED NOTE	DESCRIPTION
10.7.10	FLAG POLE. 35'-0" HEIGHT.
11.6.18	PITCHING RUBBER.
11.6.19	RUBBER BASE.
11.6.22	FOUL POLE.
11.6.23	ATHLETIC R PANEL FIELD FENCE.
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.1.04	SYNTHETIC TURF.
32.1.06	PISD TURF ATHLETIC DEPARTMENT LOGO GRAPHIC. ELECTRONIC FILE TO BE PROVIDED BY DEPARTMENT.
32.3.01	6'-0" HIGH WELDED WIREMESH FENCE
32.3.05	8'-0" HIGH VINYL COATED CHAINLINK GATE
32.3.07	8'-0" HIGH VINYL COATED CHAINLINK FENCE
32.3.07A	8'-0" HIGH VINYL COATED CHAINLINK FENCE WITH WINDSCREEN.
32.3.32	OUTDOOR SEATING BENCH.
32.3.33	LITTER RECEPTACLE.

TURF COLOR LEGEND

*REFER TO FINISH/COLOR SCHEDULE LEGEND

TURF COLOR - A	F-3A
TURF COLOR - B	F-3B
TURF COLOR - C	F-3C
TURF COLOR - D	F-3D
BATTING CIRCLE GRAPHIC	



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PASADENA ISD SOFTBALL COMPLEX

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ENLARGED SITE PLAN - FIELD B

Sheet

AS1.03

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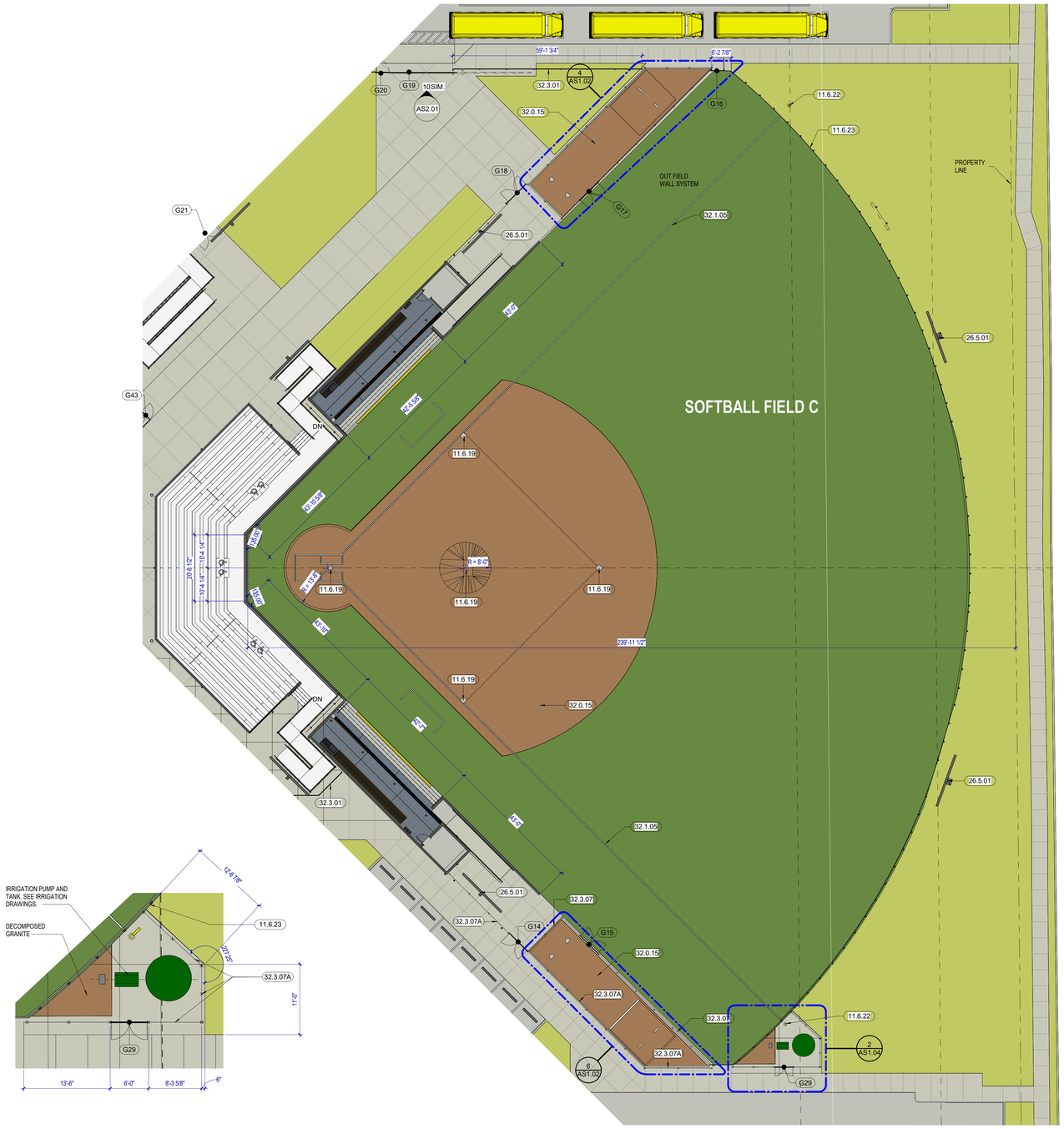

2 IRRIGATION PUMP AND TANK ENCLOSURE PLAN
1/8" = 1'-0"

1 ENLARGED SITE PLAN - SOFTBALL FIELD C
1/16" = 1'-0"

KEYED NOTES

KEYED NOTE	DESCRIPTION
11.6.19	RUBBER BASE.
11.6.22	FOUL POLE.
11.6.23	ATHLETIC R PANEL FIELD FENCE.
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.15	INFIELD DIRT.
32.1.05	CHALK FIELD LINES.
32.3.01	6'-0" HIGH WELDED WIREMESH FENCE
32.3.07	8'-0" HIGH VINYL COATED CHAINLINK FENCE
32.3.07A	8'-0" HIGH VINYL COATED CHAINLINK FENCE WITH WINDSCREEN.

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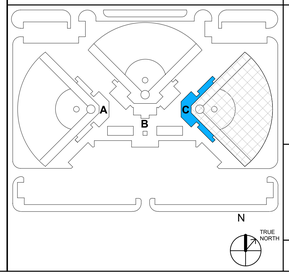

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ENLARGED SITE PLAY- FIELD C

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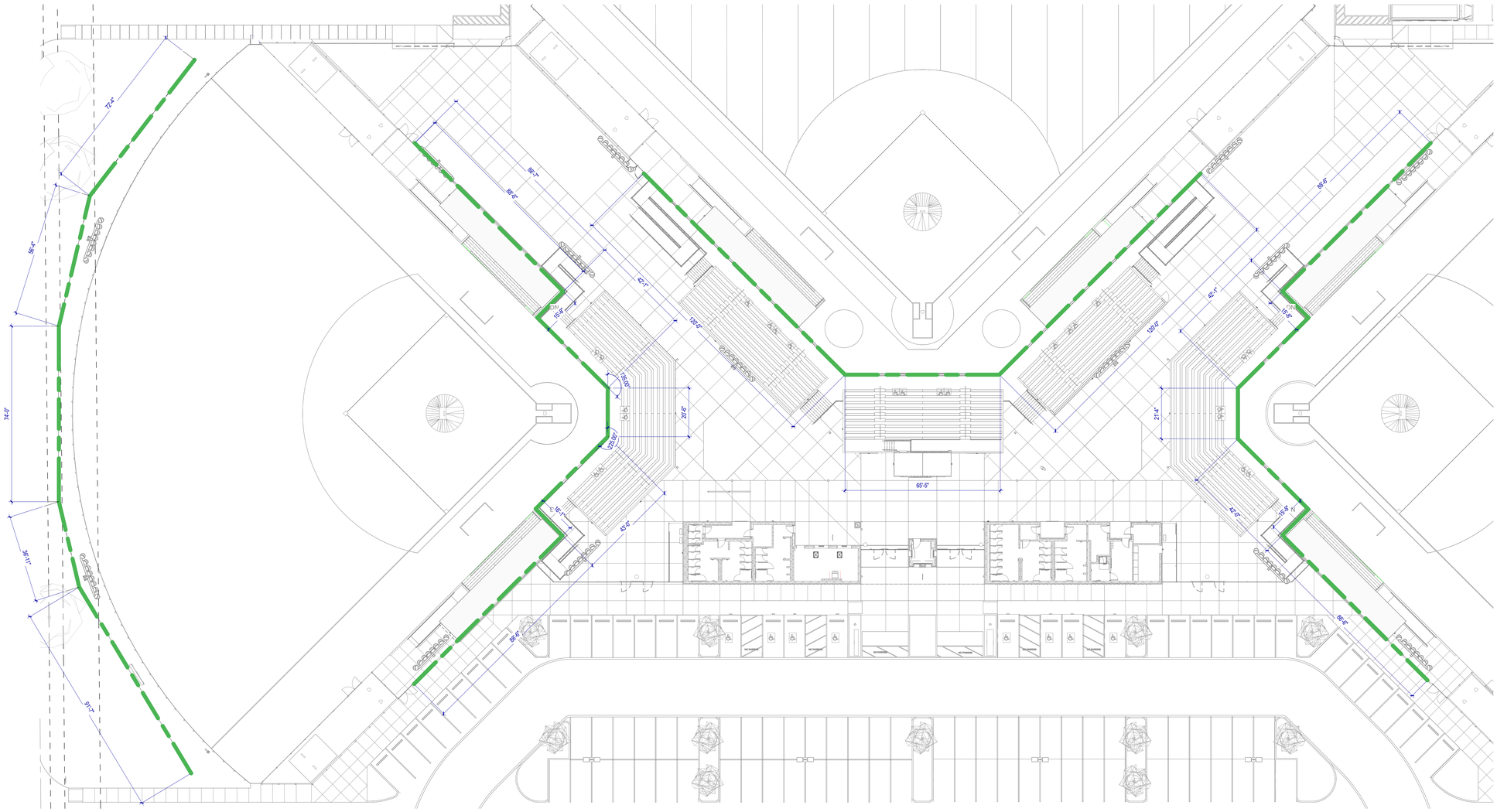

1 SAFETY NET PLAN
1" = 20'-0"

SAFETY NET

40' TALL SAFETY NET

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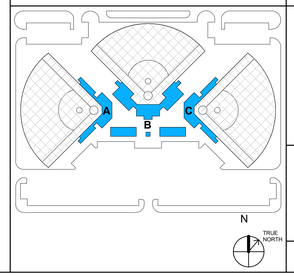

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ENLARGED PLAN - SAFETY NET

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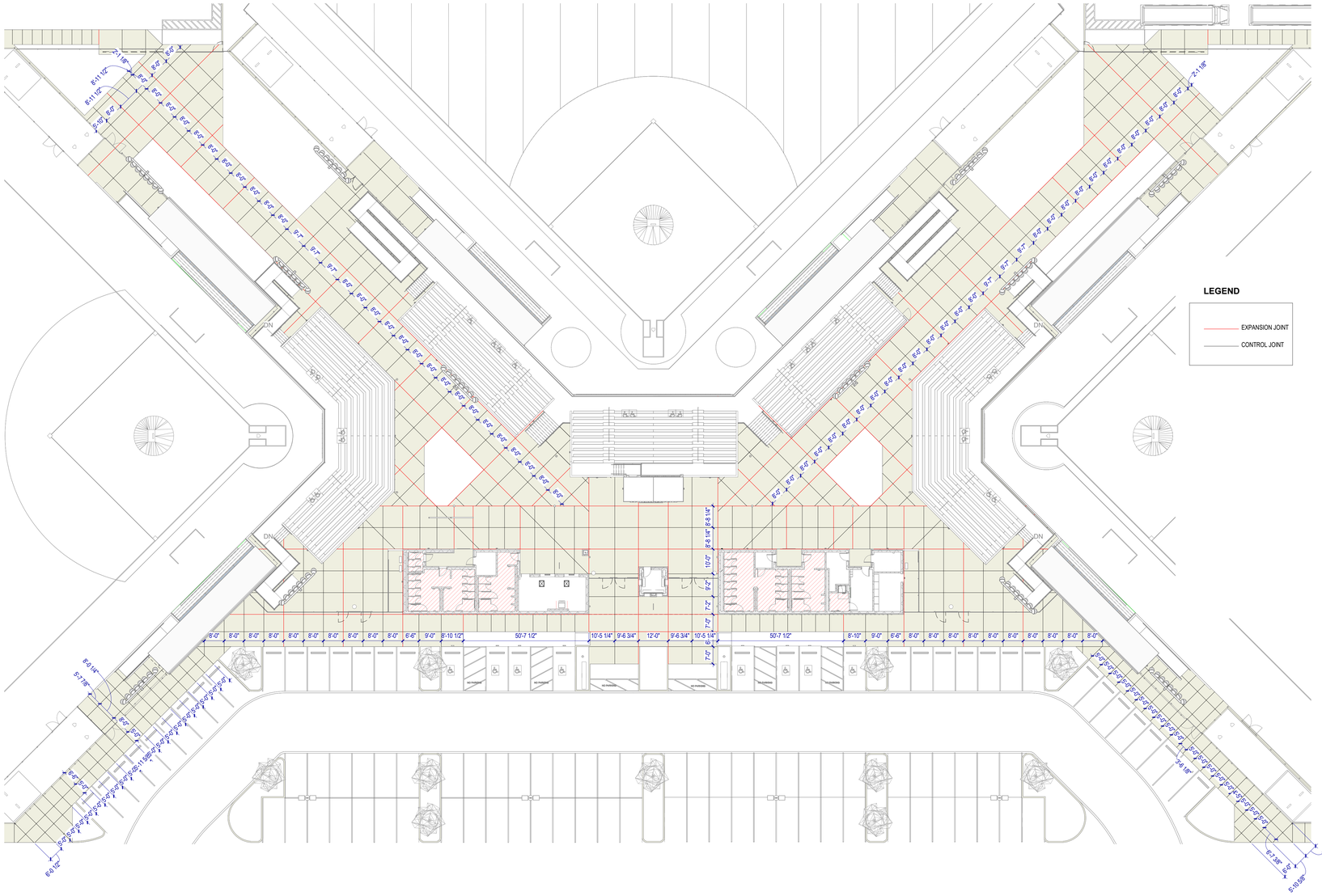
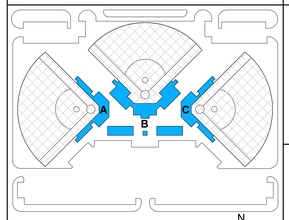


1 OVERALL SITE PLAN Copy 2
1" = 20'-0"



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ENLARGED PLAN - PLAZA JOINT PLAN

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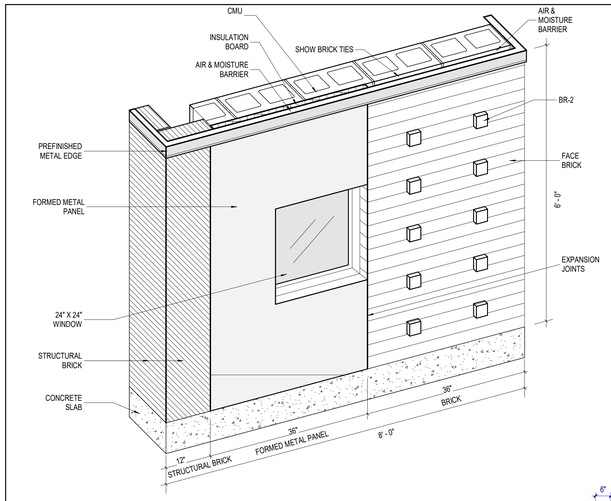
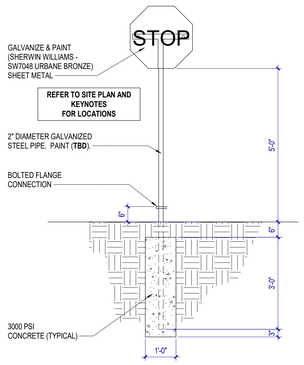
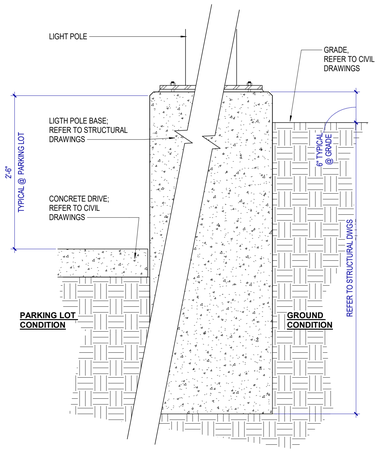


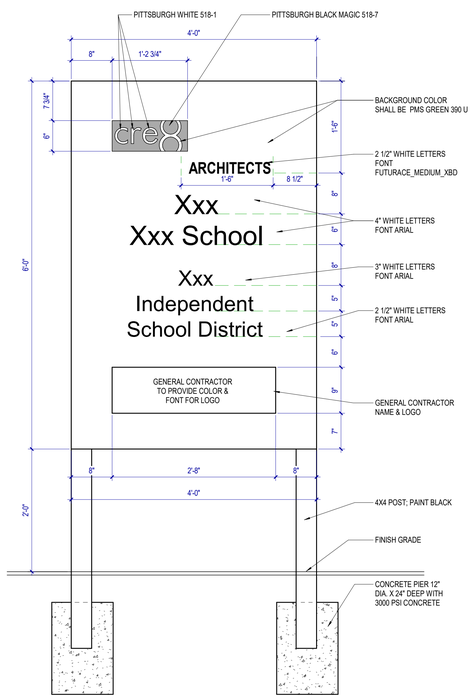
20 AS2 MOCK-UP WALL
3/4" = 1'-0"



12 STOP SIGN
1/2" = 1'-0"



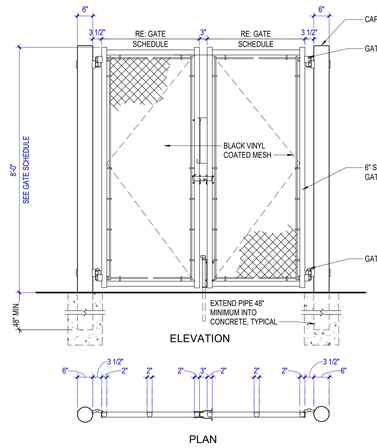
8 LIGHT POLE BASE DETAIL
1" = 1'-0"



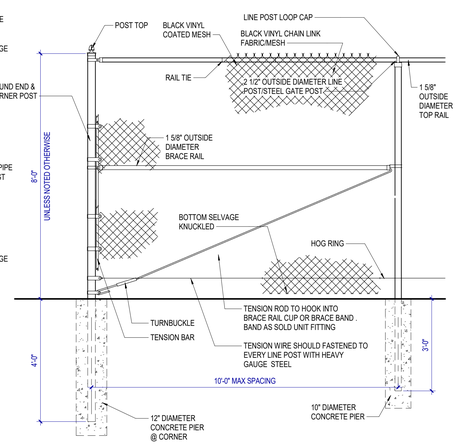
CONTRACTOR TO SUBMIT LAYOUT FOR APPROVAL BY THE ARCHITECTS/OWNER PRIOR TO FABRICATION
CONTRACTOR TO CONFIRM THE FINAL LOCATION WITH OWNER AND ARCHITECT.

JOB SIGN COLOR SELECTIONS FOR SIGN TO BE AS FOLLOWS:
WHITE - PITTSBURGH DELICATE WHITE 518-1
BLACK - PITTSBURGH BLACK MAGIC 518-7
FLAT BLACK @ SIGN POSTS - PITTSBURGH BLACK MAGIC 518-7

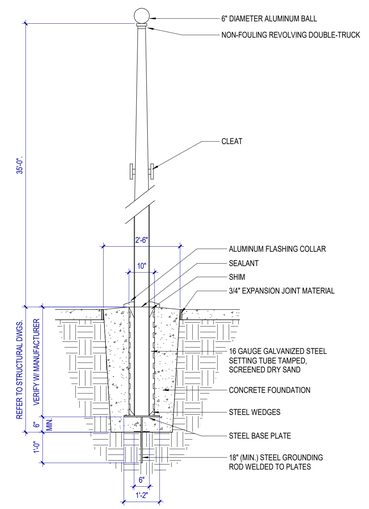
2 PROJECT SIGN DETAIL
1" = 1'-0"



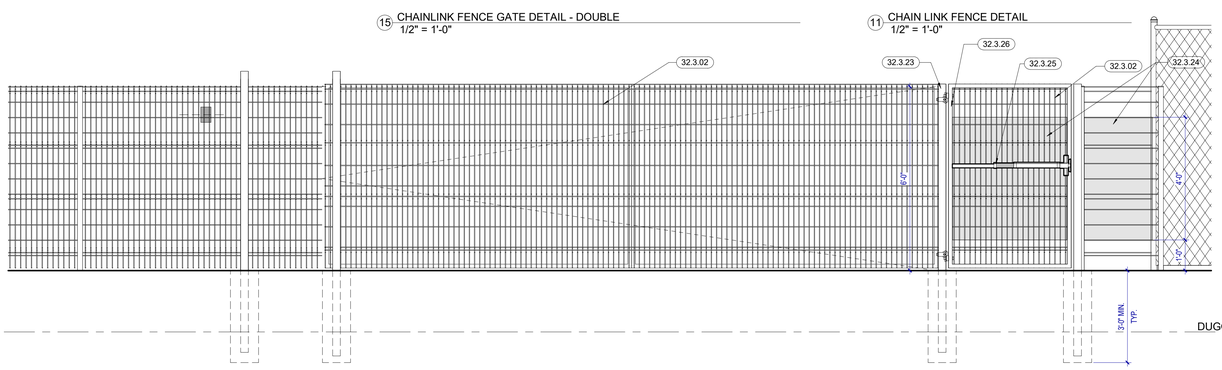
15 CHAINLINK FENCE GATE DETAIL - DOUBLE
1/2" = 1'-0"



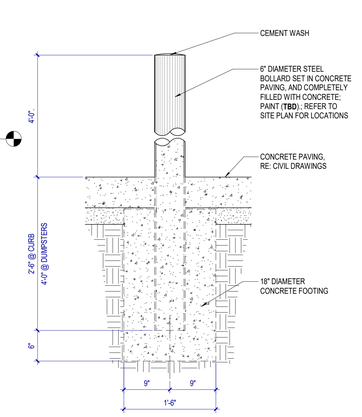
11 CHAIN LINK FENCE DETAIL
1/2" = 1'-0"



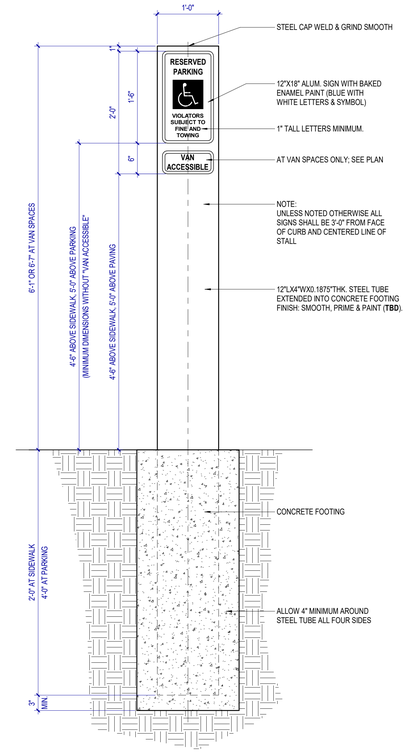
7 FLAG POLE DETAIL
1/2" = 1'-0"



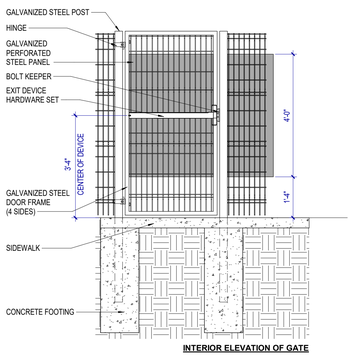
10 WELDED WIRE MESH SLIDING GATE AT SERVICE YARD
1/2" = 1'-0"



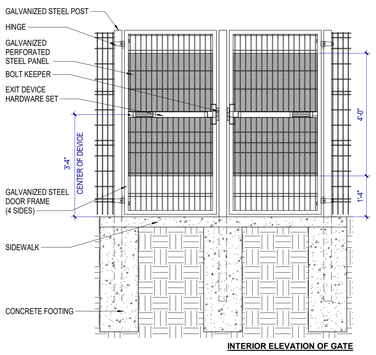
6 BOLLARD DETAIL
1" = 1'-0"



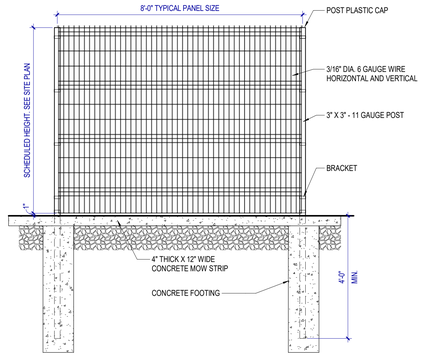
1 ACCESSIBLE PARKING SIGN DETAIL
1" = 1'-0"



17 WELDED WIRE FENCE SINGLE GATE DETAIL
1/2" = 1'-0"



13 WELDED WIRE FENCE DOUBLE GATE DETAIL
1/2" = 1'-0"



9 WELDED WIRE FENCE ELEVATION
1/2" = 1'-0"

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SITE DETAILS

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AS2.01

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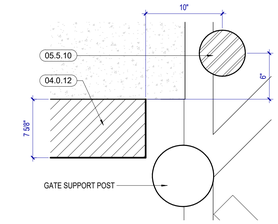
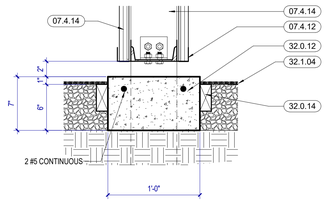
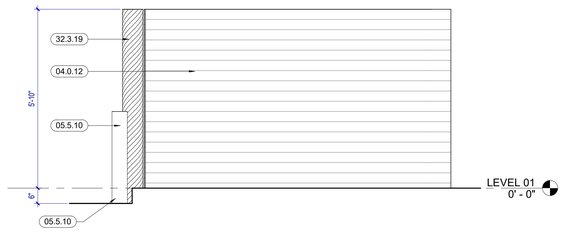


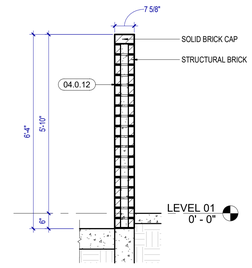
4 PLAN DETAIL - DUMPSTER SCREEN WALL AT GATE OPENING
1 1/2" = 1'-0"



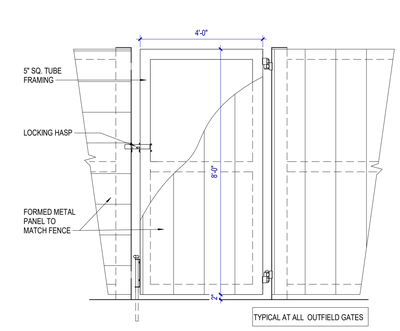
11 MOW STRIP @ BULL PEN - ARTIFICIAL TURF
1 1/2" = 1'-0"



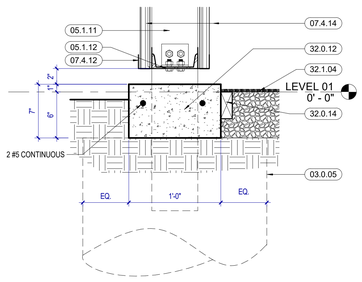
7 ELEVATION - DUMPSTER NORTH ELEVATION
1/2" = 1'-0"



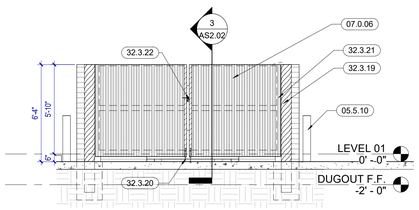
3 DUMPSTER SCREEN WALL SECTION
1/2" = 1'-0"



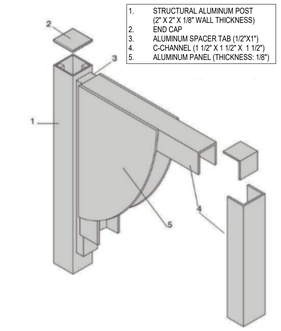
14 OUTFIELD FENCE GATE ELEVATION
1/2" = 1'-0"



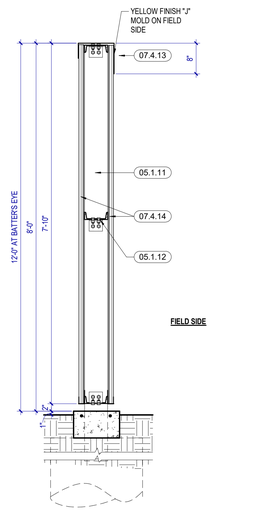
10 MOW STRIP DETAIL - ARTIFICIAL TURF
1 1/2" = 1'-0"



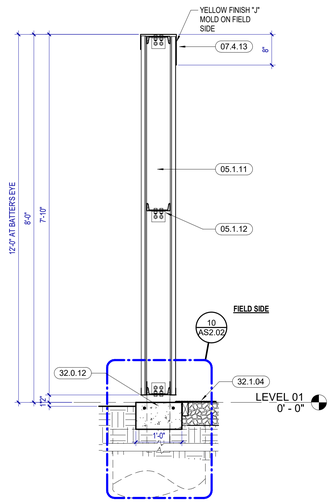
6 ELEVATION - DUMPSTER GATE
1/4" = 1'-0"



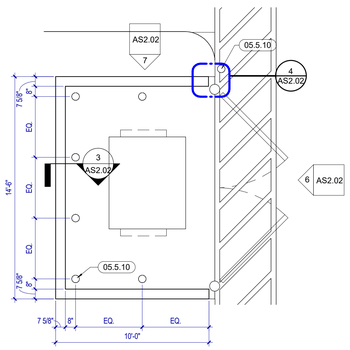
2 DIRECTIONAL SITE SIGNAGE AXON.
1" = 1'-0"



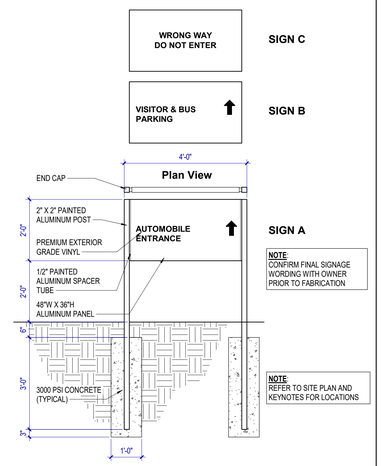
13 OUTFIELD WALL - GRASS FIELDS
3/4" = 1'-0"



9 OUTFIELD WALL SYSTEM - ARTIFICIAL TURF
3/4" = 1'-0"



5 ENLARGED PLAN - DUMPSTER ENCLOSURE
1/4" = 1'-0"



1 DIRECTIONAL SITE SIGNAGE
1/2" = 1'-0"

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.05	CONCRETE FOUNDATION. SEE STRUCTURAL DRAWINGS
04.0.12	STRUCTURAL BRICK: BR-3.
05.1.11	GALVANIZED STEEL POST.
05.1.12	GALVANIZED STEEL FENCE FRAMING.
05.5.10	STEEL PIPE BOLLARD
07.0.06	FORMED METAL WALL PANEL
07.4.12	PREFINISHED "J" SILL CLOSURE TRIM
07.4.13	PREFINISHED METAL CAP.
07.4.14	PREFINISHED FORMED METAL PANEL.
32.0.12	CONCRETE MOW STRIP. TYPICAL BELOW FENCES.
32.0.14	2X COMPOSITE NAILER.
32.1.04	SYNTHETIC TURF.
32.3.19	8" DIA. GALVANIZED STEEL TUBE POST.
32.3.20	CANE BOLT
32.3.21	3" X 3" 1/4" PAINTED STEEL TUBE FRAME
32.3.22	SLIDING HASP

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LEVEL 01 FINISH SCHEDULE, DOOR SCHEDULE & NOTES - AREA A

Sheet

A2.01 SCH

CONSTRUCTION DOCUMENTS

NOTES TO FINISH/COLOR SCHEDULE

GENERAL NOTES

1. ALL NOTES ON THIS SHEET MAY NOT NECESSARILY BE USED.
2. MANUFACTURER'S NAME AND IDENTIFICATION NUMBERS ARE LISTED AS A MEANS OF ESTABLISHING A STANDARD OF TYPE, FUNCTION, COLOR AND QUALITY. REFER TO SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS AND PROCEDURES. APPROVED MANUFACTURER'S COLORS SHALL MATCH THOSE LISTED IN THE COLOR SCHEDULE.
3. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SAMPLE OF ALL FINISH MATERIALS FOR APPROVAL BEFORE MATERIALS ARE APPLIED ON THE JOB.
4. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION CONCERNING FINISH MATERIALS AND COLORS.
5. REFER TO FLOOR PATTERN LAYOUTS FOR FLOOR/COLOR SELECTIONS.
6. TRANSITION OF FLOOR FINISH MATERIALS SHALL OCCUR ON THE CENTERLINE OF DOOR.

PAINTING AND STAINING NOTES

1. ALL PAINTS SHALL BE EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
2. **PAINT A MINIMUM OF 6'-0" X 6'-0" OF EACH PAINT COLOR** AT PROJECT SITE FOR OWNER/ARCHITECT APPROVAL PRIOR TO APPLICATION.
3. UNLESS NOTED OTHERWISE, TERMINATE ALL ACCENT PAINTS AT INSIDE CORNERS.
4. UNLESS NOTED OTHERWISE, PAINT ANY VENTS, GRILLES, ETC. THE SAME COLOR AS THE WALL SURFACE ON WHICH THEY OCCUR.
5. UNLESS NOTED OTHERWISE, PAINT ALL VISION PANEL FRAMES IN INTERIOR DOORS TO MATCH FRAME COLOR.
6. PAINT ALL UNDESIGNATED GYPSUM BOARD CEILINGS P-2, UNLESS NOTED OTHERWISE.
7. ACCESS PANELS SHALL BE PAINTED THE SAME COLOR AS THE ADJACENT SURFACE ON WHICH THEY OCCUR.
8. UNLESS NOTED OTHERWISE, REVEALS SHALL BE CLEAR ANODIZED ALUMINUM FINISH.

PLASTIC LAMINATE NOTES

1. PLASTIC LAMINATE MILLWORK:
   - VERTICAL FACES - PL-1 UNLESS NOTED OTHERWISE
   - HORIZONTAL SURFACES/COUNTERS - PL-2 UNLESS NOTED OTHERWISE
2. LINER PANEL COLOR AT CLOSED CABINETRY SHALL BE WHITE.
3. INTERIOR AND SHELF SURFACES OF OPEN PLASTIC LAMINATE MILLWORK UNITS SHALL MATCH THE COLOR OF THE EXTERIOR LAMINATE.
4. PLASTIC LAMINATE WOOD DOORS SHALL BE PL-1 FINISH, UNLESS NOTED OTHERWISE.

METAL NOTES

1. NEW EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL BE CLEAR ANODIZED FINISH WITH CLEAR INSULATED LOW-E GLASS, UNLESS NOTED OTHERWISE.
2. FINISH HARDWARE SHALL BE SATIN ALUMINUM, UNLESS NOTED OTHERWISE.

CONCRETE AND MASONRY NOTES

1. ALL CONCRETE FLOORS THAT ARE NOT SCHEDULED TO RECEIVE A FLOOR FINISH SHALL BE SEALED.

FINISH/COLOR SCHEDULE LEGEND

AL - ALUMINUM STOREFRONT

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
ALUM.	AL-1		CLEAR ANODIZED

BG - BUILDING GRAPHICS (EXTERIOR SIGNAGE)

TYPE	MARK	MANUFACTURER	SIZE	COLOR	FONT
CAST ALUM.	BG-1 BG-2		10" 8"	WHITE WHITE	HELVETICA HELVETICA
INTERNALLY LIT.	BG-3 (PISD LOGO)	TOWER GRAPHICS	SEE ELEV.	WHITE	N/A

* GRAPHIC ELECTRONIC FILE WILL BE PROVIDED BY ARCHITECT.

BR - BRICK/MASONRY

TYPE	MARK	MANUFACTURER	SIZE	COLOR	MORTAR
FACE BRICK	BR-1	INTERSTATE BRICK	4"X4"X16"	IRONSTONE	TBD
FACE BRICK	BR-1A	INTERSTATE BRICK	4"X4"X12"	IRONSTONE	TBD
ACCENT	BR-2	INTERSTATE BRICK	4" X 4" X 4"	IRONSTONE	TBD
STRUCTURAL BRICK	BR-3	INTERSTATE - ATLAS	4" X 8" X 16"	IRONSTONE	TBD

MT - METAL COPING/TRIM/PANEL

TYPE	MARK	MANUFACTURER	COLOR
FASCIA	MT-1	BERRIDGE	LEAD COTE
SOFFIT	MT-2	ARMSTRONG - LINEAR METAL PANELS METALWORKS 8"W	OAK EFFECTS
	MT-2A	BERRIDGE	LEAD COTE
GUTTER & DOWNSPOUT	MT-3 MT-3A	BERRIDGE BERRIDGE	LEAD COTE LEAD COTE
FORMED METAL PANEL	MT-4	BERRIDGE - HR-16	LEAD COTE
ATHLETIC FENCE	MT-5	BERRIDGE - VEE PANEL	BLACK

F - FLOORS

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CONCRETE	F-1	SEALED CONCRETE		
MCT	F-2	FORBO - MCT	3888-STONE	PRESSBOX
SYNTHETIC TURF				MAIN FIELD
FIELD	F-3A		DARK GREEN	
FIELD	F-3B		LIGHT GREEN	
FOUL LINE	F-3C		WHITE	
ACCENT - BROWN	F-3D		BROWN	
TURF FIELD LOGO	F3E		PISD ATHLETIC LOGO	
(LOGO ELECTRONIC FILE TO BE PROVIDED UPON REQUEST.)				
ATHLETIC RUBBER MATS	F-4		BLACK	DUGOUTS
CERAMIC TILE	F-5	DALTILE -KEYSTONES	D204 ARTISAN BROWN SPECKLE	SHOWER
RESINOUS FLOORING	F-6	STONEHARD	STONEBLEND- STONE	RESTROOMS

B - BASE

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
RUBBER	B-1	ROPPE	PEWTER
RESTROOMS: RESINOUS	B-2	STONEHARD-STONEBLEND	STONE
SHOWER: CERAMIC TILE	B-3	DALTILE	ARTISAN BROWN SPECKLE-D204

P - PAINT

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
FIELD (WALL)	P-1	SHERWIN WILLIAMS	7012 CREAMY
FIELD (CEILING)	P-2	SHERWIN WILLIAMS	7008 ALABASTER
EXPOSED STRUC. STEEL COLUMNS	P-5	SHERWIN WILLIAMS	7655 STAMPED CONCRETE
DUGOUT EQUIPMENT	P-6	SHERWIN WILLAMS	9175 DEEP FOREST BROWN
EXTERIOR DOORS &	P-7 P-7A	SHERWIN WILLIAMS SHERWIN WILLIAMS	9175 DEEP FOREST BROWN 7655 STAMPED CONCRETE
MISC. FRAMES FIELD FENCE	P-8	SHERWIN WILLIAMS	MATCH FENCE COLOR

FINISH/COLOR SCHED. LEGEND, CONT'D.

C - CEILING

TYPE/LOCATION	MARK	MANUFACTURER	TYPE	SIZE	COLOR
ACOUSTICAL PANEL	C-1	ROCKFON -PACIFIC		2 X 2	WHITE
PAINTED CEILING GYPSUM BOARD	C-2				P-2
PAINTED EXPOSED STRUCTURE	C-2A				P-2
EPOXY PAINTED GYPSUM BOARD	C-2B				P-2
PAINTED EXPOSED STRUCTURE/ DECK (DUGOUTS)	C-2C				P-5

CT - CERAMIC TILE

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CERAMIC WALL TILE	CT-1	DALTILE	ARTISAN BROWN SPECKLE-D204	SHOWER

MB - MARKERBOARD

TYPE	MARK	MANUFACTURER	COLOR
MARKERBOARD	LC-1	CLARIDGE 48" X 48"	WHITE

TB - TACKBOARD

TYPE	MARK	MANUFACTURER	COLOR
TACKBOARD	TB-1	CLARIDGE - FABRICORK	C620 DOVER

SP - SAFETY PADS

TYPE	MARK	MANUFACTURER	COLOR	SIZE
SP - SAFETY PADS (See Elevation for PISD Athletics Logo within Safety Pad)		PORTER	BLACK	SEE ELVATION

L - LOCKERS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
12" X 12" DOUBLE STACK/ OFFICIALS ROOM	L-1	PENCO	012 TAWNY WHITE

OHD/ OHCD - OVERHEAD DOORS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
CONCESSION	OHCD	COOKSON	RAL 8019
STORAGE	OHD	COOKSON	RAL 8019
TICKET BOOTH	OHD	COOKSON	RAL 8019

PL - PLASTIC LAMINATE

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CASEWORK	PL-1	FORMICA	EARTHEN WARP - 5880-58	(VERTICAL SURFACES)
	PL-1A	NEVAMAR	SILVERLINE HAUTELINK HLT004T	(VERTICAL SURFACES - CONCESSIONS)
	PL-2	NEVAMAR	PURE SPUN YARN - YSN002T	(HORIZONTAL SURFACES - PRESSBOX)
	PL-3	STAINLESS STEEL CLADDED COUNTER TOP		(CONCESSIONS)

TP - TOILET PARTITION

TYPE	MARK	MANUFACTURER	COLOR
HDPE	TP-1	SCRANTON PRODUCTS	NICKEL - HAMMERED

WB - HORIZONTAL LOUVER BLINDS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
	WB-1	HUNTER DOUGLAS	065 BRUSHED ALUMINUM

WWF - WELDED WIRE FENCE/GATE

TYPE/LOCATION	MARK	MANUFACTURER	STYLE	COLOR
6FT / PER PLANS	WWF-1	DESIGNMASTER	CLASSIC	BLACK

VCLF - VINYL COATED CHAIN LINK FENCE

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
8FT / PER PLANS	VCLF-1		BLACK

WSC - WIND SCREEN

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
PER PLANS	WSC-1		BLACK

ROOM SCHEDULE - LEVEL 01 - AREA A

Number	Name	Floor Finish	Base Finish	Wall Finish North	Wall Finish South	Wall Finish East	Wall Finish West	Ceiling Finish	Note
	Room								
A1	DUGOUT	F-1/ F-4	-	-	P-1	-	-	C-2C	
A2	STOR.	F-1	-	P-1	P-1	P-1	P-1	C-2C	
A3	DUGOUT	F-1/ F-4	-	-	P-1	-	-	C-2C	
A4	STOR.	F-1	-	P-1	P-1	P-1	P-1	C-2C	

DOOR SCHEDULE - LEVEL 01 - AREA A

Mark	Construction Type	Door Width	Door Height	Door Material	Door Thickness	Door Finish	Fire Rating	Door HDW	Frame Type	Frame Material	Frame Finish	Frame Jamb Detail	Frame Head Detail	NOTE	Glazing Type	Plaque Type
A2	FL	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	01	HM	P-8	1/A9.10	2/A9.10			A
A4	FL	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	01	HM	P-8	1/A9.10	2/A9.10			A

FINISH SCHEDULE NOTES

GENERAL NOTES:
A. NOTES FOR FINISH SCHEDULE SHEETS ONLY. ALL NOTES MAY NOT NECESSARILY BE USED.

NOTES:
1. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING PLAN, AND FLOOR PATTERN PLAN FOR ADDITIONAL INFORMATION.
2. REFER TO RESTROOM ELEVATIONS AND FLOOR PATTERN DETAIL FOR ADDITIONAL INFORMATION.
3. CERAMIC TILE (CT-1) AT FLOOR AND WALLS OF SHOWER.
4. EPOXY PAINT AT WALLS.
5. PROVIDE 4'-0" HIGH SST PANEL WAINSCOT AT FLOOR MOUNTED MOP SINK. WAINSCOT TO BE WIDTH OF SINK AT EACH WALL.

DOOR SCHEDULE GENERAL NOTES:

A. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES.

DOOR SCHEDULE NOTES:

1. CARD READER
2. OVERHEAD COILING DOOR
3. OVERHEAD COILING COUNTER DOOR
4. DOOR IN STRUCTURAL BRICK WALL

LEGEND:

ALUM	ALUMINUM
CT	CLEAR TEMPERED
F.V.	FIELD VERIFY
HM	HOLLOW METAL
MANU	MANUFACTURER
PLAM	PLASTIC LAMINATE FINISH
PREFINISHED	PRE-FINISHED
SCWD	SOLID CORE WOOD DOOR
STL	STEEL

ALL INTERIOR DOOR AND WINDOW GLAZING SHALL BE TYPE 1. TYPICAL.
ALL EXTERIOR DOOR AND WINDOW GLAZING SHALL BE TYPE 2. TYPICAL.

GLAZING TYPES:
1. CLEAR INSULATED, LAMINATED GLASS

EQUIPMENT SCHEDULE

EQ ID	EQ DESCRIPTION	RESPONSIBILITY	COMMENTS
BENCH-1	DUGOUT BENCH	CFCI	1
LK12X36	2 TIER LOCKER	CFCI	
MS-01	METAL SHELVING UNIT	CFCI	
MS-03	METAL SHELVING UNIT	CFCI	
STO-1	DUGOUT HELMET/BAT RACKS	CFCI	
STO-2	COACH STATION	CFCI	SHELF AND TACKBOARD
WS-01	WALL MOUNTED SHELF	CFCI	

BINDING EDGE

BINDING EDGE

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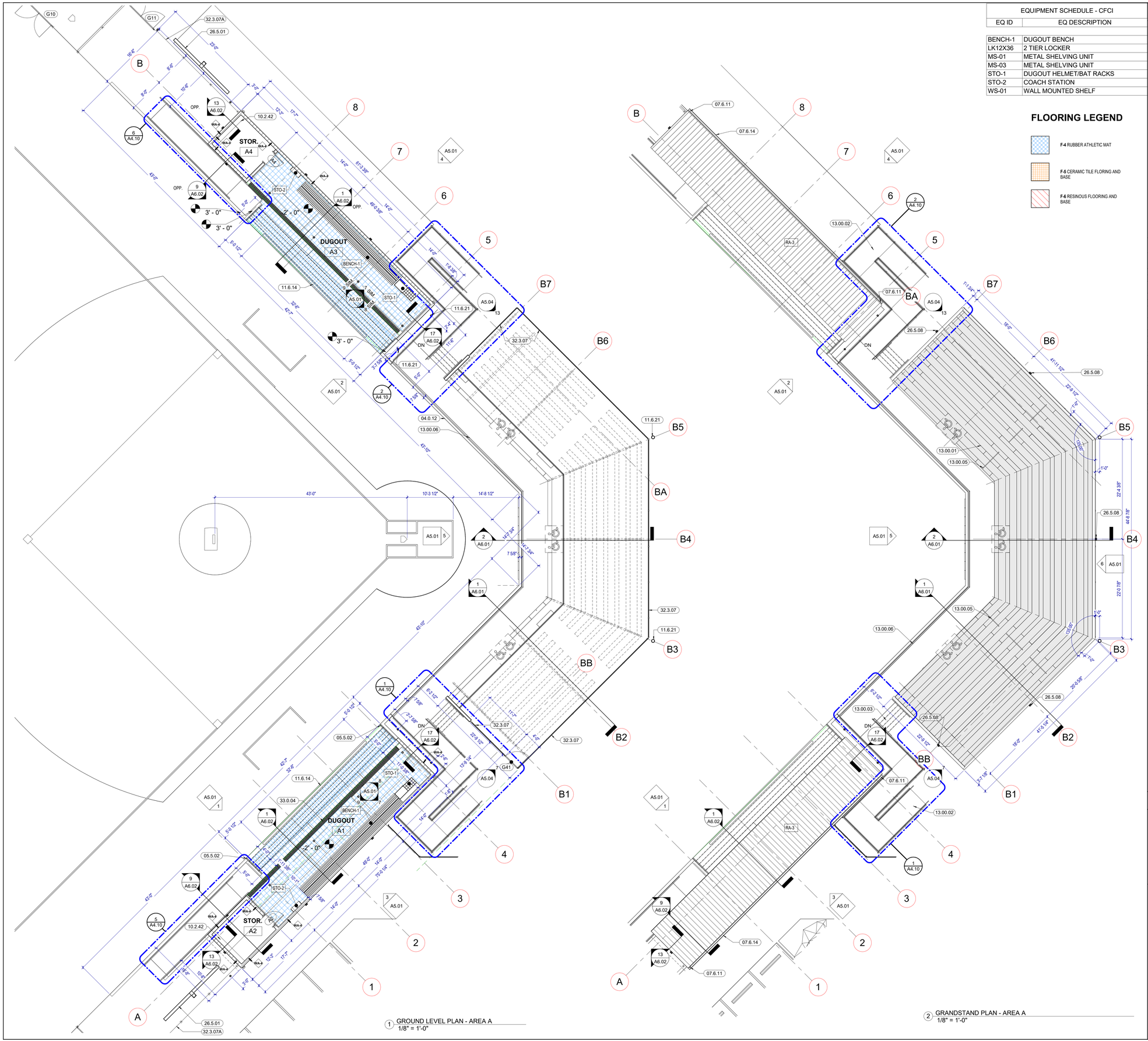
BINDING EDGE



1 GROUND LEVEL PLAN - AREA A
1/8" = 1'-0"

2 GRANDSTAND PLAN - AREA A
1/8" = 1'-0"

EQUIPMENT SCHEDULE - CFCI	
EQ ID	EQ DESCRIPTION
BENCH-1	DUGOUT BENCH
LK12X36	2 TIER LOCKER
MS-01	METAL SHELVING UNIT
MS-03	METAL SHELVING UNIT
STO-1	DUGOUT HELMET/BAT RACKS
STO-2	COACH STATION
WS-01	WALL MOUNTED SHELF

FLOORING LEGEND

- F-4 RUBBER ATHLETIC MAT
- F-5 CERAMIC TILE FLORING AND BASE
- F-6 RESINOUS FLOORING AND BASE

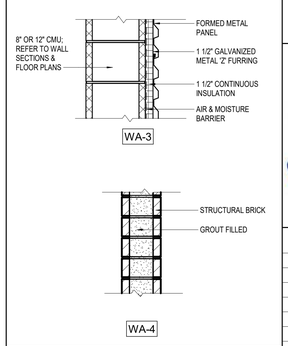
GENERAL NOTES

1. REFER TO SHEET A9.30 FOR PARTITION TYPES.
2. TYPE 2A PARTITION IS TYPICAL. GYPSUM BOARD PARTITIONS NOT DESIGNATED SHALL BE TYPE 2A. FREE STANDING COLUMN ENCLOSURES SHALL BE PARTITION TYPE 6A, U.N.O. COLUMNS ADJACENT TO PARTITIONS SHALL MATCH ADJACENT WALL CONSTRUCTION IN APPEARANCE U.N.O. TYPICAL COLUMN FURR OUT TO BE 10" FROM COLUMN CENTER LINE TO OUTSIDE FACE OF WALL IN BOTH DIRECTIONS U.N.O.
3. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES SHEET FOR ADDITIONAL INFORMATION.
4. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS AND INFORMATION.
5. REFER TO CASEWORK, EQUIPMENT & FLOOR PATTERN PLANS AND ABBREVIATION LEGEND FOR EQUIPMENT, ADDITIONAL INTERIOR ELEVATIONS, AND FINISH TAGS.
6. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES AND GLAZING LEGEND. REFER TO SHEETS A9.11 AND A9.12 FOR WINDOW TYPES.
7. REFER TO SHEET A0.03 FOR TYPICAL MOUNTING HEIGHTS.
8. PROVIDE CONCRETE CURBS AROUND ALL MECHANICAL ROOMS AND AT FLOOR PENETRATIONS WITHIN LEVEL 02 MECHANICAL ROOMS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONDUIT AND STRUCTURAL COLUMNS. PROVIDE SEALANT BETWEEN CURB AND PENETRATING ITEM FOR WATERPROOF JOINT. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE CURB DETAILS.

KEYED NOTES

KEYED NOTE	DESCRIPTION
04.0.12	STRUCTURAL BRICK: BR-3.
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
10.2.42	WALL MOUNTED METAL SHELF @ 5'-0" O.C.
11.6.14	SPADDED SQUARE GUARDRAIL WITH SAFETY NET & WINDSCREEN INFILL.
11.6.21	SAFETY NET POLE & POLE FOUNDATION BY SAFETY NET INSTALLER.
13.00.01	ALUMINUM BLEACHERS
13.00.02	ALUMINUM RAMP BY BLEACHER MANUFACTURER
13.00.03	ALUMINUM STAIR BY BLEACHER MANUFACTURER
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
13.00.06	ALUMINUM RAILING BY BLEACHER MANUFACTURER
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.3.07	8'-0" HIGH VINYL COATED CHAINLINK FENCE
32.3.07A	8'-0" HIGH VINYL COATED CHAINLINK FENCE WITH WINDSCREEN.
33.0.04	LINEAR DRAIN,SEE CIVIL DRAWINGS

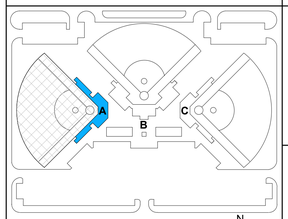
EXTERIOR WALL ASSEMBLIES



QR CODES

VIEW OF FIELD A

VIEW OF SIDE FIELD DUGOUT



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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

FLOOR PLANS - AREA A

Sheet

A2.01.1

CONSTRUCTION DOCUMENTS

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District



Revision Schedule

NO.	ISSUE	DATE

Sheet Information

Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

LEVEL 01 FINISH SCHEDULE, DOOR SCHEDULE & NOTES - AREA B

Sheet

A2.02 SCH

CONSTRUCTION DOCUMENTS

NOTES TO FINISH/COLOR SCHEDULE

GENERAL NOTES

1. ALL NOTES ON THIS SHEET MAY NOT NECESSARILY BE USED.
2. MANUFACTURER'S NAME AND IDENTIFICATION NUMBERS ARE LISTED AS A MEANS OF ESTABLISHING A STANDARD OF TYPE, FUNCTION, COLOR AND QUALITY. REFER TO SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS AND PROCEDURES. APPROVED MANUFACTURER'S COLORS SHALL MATCH THOSE LISTED IN THE COLOR SCHEDULE.
3. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SAMPLE OF ALL FINISH MATERIALS FOR APPROVAL BEFORE MATERIALS ARE APPLIED ON THE JOB.
4. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION CONCERNING FINISH MATERIALS AND COLORS.
5. REFER TO FLOOR PATTERN LAYOUTS FOR FLOOR/COLOR SELECTIONS.
6. TRANSITION OF FLOOR FINISH MATERIALS SHALL OCCUR ON THE CENTERLINE OF DOOR.

PAINTING AND STAINING NOTES

1. ALL PAINTS SHALL BE EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
2. **PAINT A MINIMUM OF 6'-0" X 6'-0" OF EACH PAINT COLOR** AT PROJECT SITE FOR OWNER/ARCHITECT APPROVAL PRIOR TO APPLICATION.
3. UNLESS NOTED OTHERWISE, TERMINATE ALL ACCENT PAINTS AT INSIDE CORNERS.
4. UNLESS NOTED OTHERWISE, PAINT ANY VENTS, GRILLES, ETC. THE SAME COLOR AS THE WALL SURFACE ON WHICH THEY OCCUR.
5. UNLESS NOTED OTHERWISE, PAINT ALL VISION PANEL FRAMES IN INTERIOR DOORS TO MATCH FRAME COLOR.
6. PAINT ALL UNDESIGNATED GYPSUM BOARD CEILINGS P-2, UNLESS NOTED OTHERWISE.
7. ACCESS PANELS SHALL BE PAINTED THE SAME COLOR AS THE ADJACENT SURFACE ON WHICH THEY OCCUR.
8. UNLESS NOTED OTHERWISE, REVEALS SHALL BE CLEAR ANODIZED ALUMINUM FINISH.

PLASTIC LAMINATE NOTES

1. PLASTIC LAMINATE MILLWORK:
   - VERTICAL FACES - PL-1 UNLESS NOTED OTHERWISE
   - HORIZONTAL SURFACES/COUNTERS - PL-2 UNLESS NOTED OTHERWISE
2. LINER PANEL COLOR AT CLOSED CABINETRY SHALL BE WHITE.
3. INTERIOR AND SHELF SURFACES OF OPEN PLASTIC LAMINATE MILLWORK UNITS SHALL MATCH THE COLOR OF THE EXTERIOR LAMINATE.
4. PLASTIC LAMINATE WOOD DOORS SHALL BE PL-1 FINISH, UNLESS NOTED OTHERWISE.

METAL NOTES

1. NEW EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL BE CLEAR ANODIZED FINISH WITH CLEAR INSULATED LOW-E GLASS, UNLESS NOTED OTHERWISE.
2. FINISH HARDWARE SHALL BE SATIN ALUMINUM, UNLESS NOTED OTHERWISE.

CONCRETE AND MASONRY NOTES

1. ALL CONCRETE FLOORS THAT ARE NOT SCHEDULED TO RECEIVE A FLOOR FINISH SHALL BE SEALED.

FINISH/COLOR SCHEDULE LEGEND

AL - ALUMINUM STOREFRONT

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
ALUM.	AL-1		CLEAR ANODIZED

BG - BUILDING GRAPHICS (EXTERIOR SIGNAGE)

TYPE	MARK	MANUFACTURER	SIZE	COLOR	FONT
CAST ALUM.	BG-1		10"	WHITE	HELVETICA
	BG-2		8"	WHITE	HELVETICA
INTERNALLY LIT.	BG-3 (PISD LOGO)	TOWER GRAPHICS	SEE ELEV.	WHITE	N/A

* GRAPHIC ELECTRONIC FILE WILL BE PROVIDED BY ARCHITECT.

BR - BRICK/MASONRY

TYPE	MARK	MANUFACTURER	SIZE	COLOR	MORTAR
FACE BRICK	BR-1	INTERSTATE BRICK	4"X4"X16"	IRONSTONE	TBD
FACE BRICK	BR-1A	INTERSTATE BRICK	4"X4"X12"	IRONSTONE	TBD
ACCENT	BR-2	INTERSTATE BRICK	4" X 4" X 4"	IRONSTONE	TBD
STRUCTURAL BRICK	BR-3	INTERSTATE - ATLAS	4" X 8" X 16"	IRONSTONE	TBD

MT - METAL COPING/TRIM/PANEL

TYPE	MARK	MANUFACTURER	COLOR
FASCIA	MT-1	BERRIDGE	LEAD COTE
SOFFIT	MT-2	ARMSTRONG - LINEAR METAL PANELS METALWORKS 8"W	OAK EFFECTS
	MT-2A	BERRIDGE	LEAD COTE
GUTTER & DOWNSPOUT	MT-3	BERRIDGE	LEAD COTE
	MT-3A	BERRIDGE	LEAD COTE
FORMED METAL PANEL	MT-4	BERRIDGE - HR-16	LEAD COTE
ATHLETIC FENCE	MT-5	BERRIDGE - VEE PANEL	BLACK

F - FLOORS

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CONCRETE	F-1	SEALED CONCRETE		
MCT	F-2	FORBO - MCT	3888-STONE	PRESSBOX
SYNTHETIC TURF				MAIN FIELD
FIELD	F-3A		DARK GREEN	
FIELD	F-3B		LIGHT GREEN	
FOUL LINE	F-3C		WHITE	
ACCENT - BROWN	F-3D		BROWN	
TURF FIELD LOGO	F3E		PISD ATHLETIC LOGO	
(LOGO ELECTRONIC FILE TO BE PROVIDED UPON REQUEST.)				
ATHLETIC RUBBER MATS	F-4		BLACK	DUGOUTS
CERAMIC TILE	F-5	DALTILE -KEYSTONES	D204 ARTISAN BROWN SPECKLE	SHOWER
RESINOUS FLOORING	F-6	STONEHARD	STONEBLEND- STONE	RESTROOMS

B - BASE

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
RUBBER	B-1	ROPPE	PEWTER
RESTROOMS: RESINOUS	B-2	STONEHARD-STONEBLEND	STONE
SHOWER: CERAMIC TILE	B-3	DALTILE	ARTISAN BROWN SPECKLE-D204

P - PAINT

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
FIELD (WALL)	P-1	SHERWIN WILLIAMS	7012 CREAMY
FIELD (CEILING)	P-2	SHERWIN WILLIAMS	7008 ALABASTER
EXPOSED STRUC. STEEL COLUMNS	P-5	SHERWIN WILLIAMS	7655 STAMPED CONCRETE
DUGOUT EQUIPMENT	P-6	SHERWIN WILLAMS	9175 DEEP FOREST BROWN
EXTERIOR DOORS &	P-7	SHERWIN WILLIAMS	9175 DEEP FOREST BROWN
	P-7A	SHERWIN WILLIAMS	7655 STAMPED CONCRETE
MISC. FRAMES FIELD FENCE	P-8	SHERWIN WILLIAMS	MATCH FENCE COLOR

FINISH/COLOR SCHED. LEGEND, CONT'D.

C - CEILING

TYPE/LOCATION	MARK	MANUFACTURER	TYPE	SIZE	COLOR
ACOUSTICAL PANEL	C-1	ROCKFON -PACIFIC		2 X 2	WHITE
PAINTED CEILING GYPSUM BOARD	C-2				P-2
PAINTED EXPOSED STRUCTURE	C-2A				P-2
EPOXY PAINTED GYPSUM BOARD	C-2B				P-2
PAINTED EXPOSED STRUCTURE/ DECK (DUGOUTS)	C-2C				P-5

CT - CERAMIC TILE

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CERAMIC WALL TILE	CT-1	DALTILE	ARTISAN BROWN SPECKLE-D204	SHOWER

MB - MARKERBOARD

TYPE	MARK	MANUFACTURER	COLOR
MARKERBOARD	LC-1	CLARIDGE 48" X 48"	WHITE

TB - TACKBOARD

TYPE	MARK	MANUFACTURER	COLOR
TACKBOARD	TB-1	CLARIDGE - FABRICORK	C620 DOVER

SP - SAFETY PADS

TYPE	MARK	MANUFACTURER	COLOR	SIZE
SP - SAFETY PADS		PORTER	BLACK	SEE ELVATION

(See Elevation for PISD Athletics Logo within Safety Pad)

L - LOCKERS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
12" X 12" DOUBLE STACK/ OFFICIALS ROOM	L-1	PENCO	012 TAWNY WHITE

OHD/ OHCD - OVERHEAD DOORS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
CONCESSION	OHCD	COOKSON	RAL 8019
STORAGE	OHD	COOKSON	RAL 8019
TICKET BOOTH	OHD	COOKSON	RAL 8019

PL - PLASTIC LAMINATE

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CASEWORK	PL-1	FORMICA	EARTHEN WARP - 5880-58	(VERTICAL SURFACES)
	PL-1A	NEVAMAR	SILVERLINE HAUTELINK HLT004T	(VERTICAL SURFACES - CONCESSIONS)
	PL-2	NEVAMAR	PURE SPUN YARN - YSN002T	(HORIZONTAL SURFACES - PRESSBOX)
	PL-3	STAINLESS STEEL CLADDED COUNTER TOP		(CONCESSIONS)

TP - TOILET PARTITION

TYPE	MARK	MANUFACTURER	COLOR
HDPE	TP-1	SCRANTON PRODUCTS	NICKEL - HAMMERED

WB - HORIZONTAL LOUVER BLINDS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
	WB-1	HUNTER DOUGLAS	065 BRUSHED ALUMINUM

WWF - WELDED WIRE FENCE/GATE

TYPE/LOCATION	MARK	MANUFACTURER	STYLE	COLOR
6FT / PER PLANS	WWF-1	DESIGNMASTER	CLASSIC	BLACK

VCLF - VINYL COATED CHAIN LINK FENCE

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
8FT / PER PLANS	VCLF-1		BLACK

WSC - WIND SCREEN

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
PER PLANS	WSC-1		BLACK

ROOM SCHEDULE - LEVEL 01 - AREA B

WT	Name	Floor Finish	Base Finish	Wall Finish North	South	East	West	Ceiling Finish	Note
B1	TICKET	F-1	B-1	P-1	P-1	P-1	P-1	C-2	
B2	CONCESSION	F-1	B-1	P-1	P-1	P-1	P-1	C-2B	4
B3	MENS	F-6	B-2	P-1	P-1	P-1	P-1	C-2B	4
B4	RR	F-6	B-2	P-1	P-1	P-1	P-1	C-2B	4
B4A	WOMENS	F-6	B-2	P-1	P-1	P-1	P-1	C-2B	4
B5	ELEC.	F-1	B-1	P-1	P-1	P-1	P-1	C-2	
B6	VEST	F-6	B-2	P-1	P-1	P-1	P-1	C-2B	4
B6A	WOMENS	F-6	B-2	P-1	P-1	P-1	P-1	C-2B	4
B7	MENS	F-6	B-2	P-1	P-1	P-1	P-1	C-2B	4
B8	RR	F-6/F-5	B-2/B-3	P-1/CT-1	P-1	P-1	P-1	C-2B	3 & 4
B9	OFFICIALS	F-2	B-1	P-1	P-1	P-1	P-1	C-2	4
B10	CUST.	F-1	B-1	P-1	P-1	P-1	P-1	-	4 & 5
B11	MDF	F-1	B-1	P-1	P-1	P-1	P-1	-	
B11A	STOR.	F-1	B-1	P-1	P-1	P-1	P-1	-	
B12	STOR.	F-1	B-1	-	-	-	-	-	
B13	DUGOUT	F-1/ F-4	-	-	P-1	-	-	C-2C	1
B14	STOR.	F-1	B-1	P-1	P-1	P-1	P-1	C-2C	
B15	DUGOUT	F-1/ F-4	-	-	P-1	-	-	C-2C	1
B16	STOR.	F-1	B-1	P-1	P-1	P-1	P-1	C-2C	
B20	PRESSBOX	F-2	B-1	P-1	P-1	P-1	P-1	C-1	1

DOOR SCHEDULE - LEVEL 01 - AREA B

Mark	Construction Type	Door Width	Height	Door Material	Thickness	Door Finish	Fire Rating	Door HDW	Frame Type	Frame Material	Frame Finish	Jamb Detail	Head Detail	NOTE	Plaque Type
B1	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		WC205I	01	HM	P-7	7/A9.10	4/A9.10	1	C
B1A	OCCD	2' - 4"	4' - 2"	ALUM		PREFIN.		001		STL.	P-7	1/A6.20	4/A6.03		
B1B	OCCD	7' - 4"	4' - 2"	ALUM.		PREFIN.		001	-	STL.	P-7	1/A6.20	4/A6.03	6	
B1C	OCCD	2' - 4"	4' - 2"	ALUM.		PREFIN.		001		STL.	P-7	1/A6.20	4/A6.03		
B2	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	-	HM	P-7	5/A9.10	6/A9.10		C
B3	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W805L-IN	05	HM	P-7	5/A9.10	6/A9.10		D
B4	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W805L-IN	05	HM	P-7	5/A9.10	6/A9.10		D
B4A	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		801	05	HM	P-7	1/A9.10	2/A9.10		
B5	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205IN	05	HM	P-7	5/A9.10	6/A9.10		A
B6	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W805L-IN	05	HM	P-7	5/A9.10	6/A9.10		D
B6A	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		801	05	HM	P-7	1/A9.10	2/A9.10		
B7	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W805L-IN	05	HM	P-7	5/A9.10	6/A9.10		D
B8	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		341	01	HM	P-7	1/A9.10	2/A9.10		D
B9	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W505IN	01	HM	P-7	7/A9.10	4/A9.10		C
B10	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205IN	01	HM	P-7	5/A9.10	6/A9.10		A
B11	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		WC205I	05	HM	P-7	5/A9.10	6/A9.10	1	A
B11A	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205		HM	P-7	5/A9.10	6/A9.10		A
B12	OHCD	7' - 0"	9' - 0"	ALUM.	0' - 1"	PREFIN.		001	01	STL	PREFIN.	9/A9.10	10/A9.10	2	A
B12A	OHCD	7' - 0"	9' - 0"	ALUM.	0' - 1"	PREFIN.		001	-	STL	PREFIN.	9/A9.10	10/A9.10	2	A
B14	FL	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	01	HM	P-7	1/A9.10	2/A9.10		A
B16	FL	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	01	HM	P-7	1/A9.10	2/A9.10		A
B20	F	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7A		W205	01	HM	P-7A	8/A6.20	5/A6.20	1	C

FINISH SCHEDULE NOTES

GENERAL NOTES:
A. NOTES FOR FINISH SCHEDULE SHEETS ONLY. ALL NOTES MAY NOT NECESSARILY BE USED.

NOTES:
1. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING PLAN, AND FLOOR PATTERN PLAN FOR ADDITIONAL INFORMATION.
2. REFER TO RESTROOM ELEVATIONS AND FLOOR PATTERN DETAIL FOR ADDITIONAL INFORMATION.
3. CERAMIC TILE (CT-1) AT FLOOR AND WALLS OF SHOWER.
4. EPOXY PAINT AT WALLS.
5. PROVIDE 4'-0" HIGH SST PANEL WAINSCOT AT FLOOR MOUNTED MOP SINK. WAINSCOT TO BE WIDTH OF SINK AT EACH WALL.

DOOR SCHEDULE GENERAL NOTES:

A. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES.

DOOR SCHEDULE NOTES:

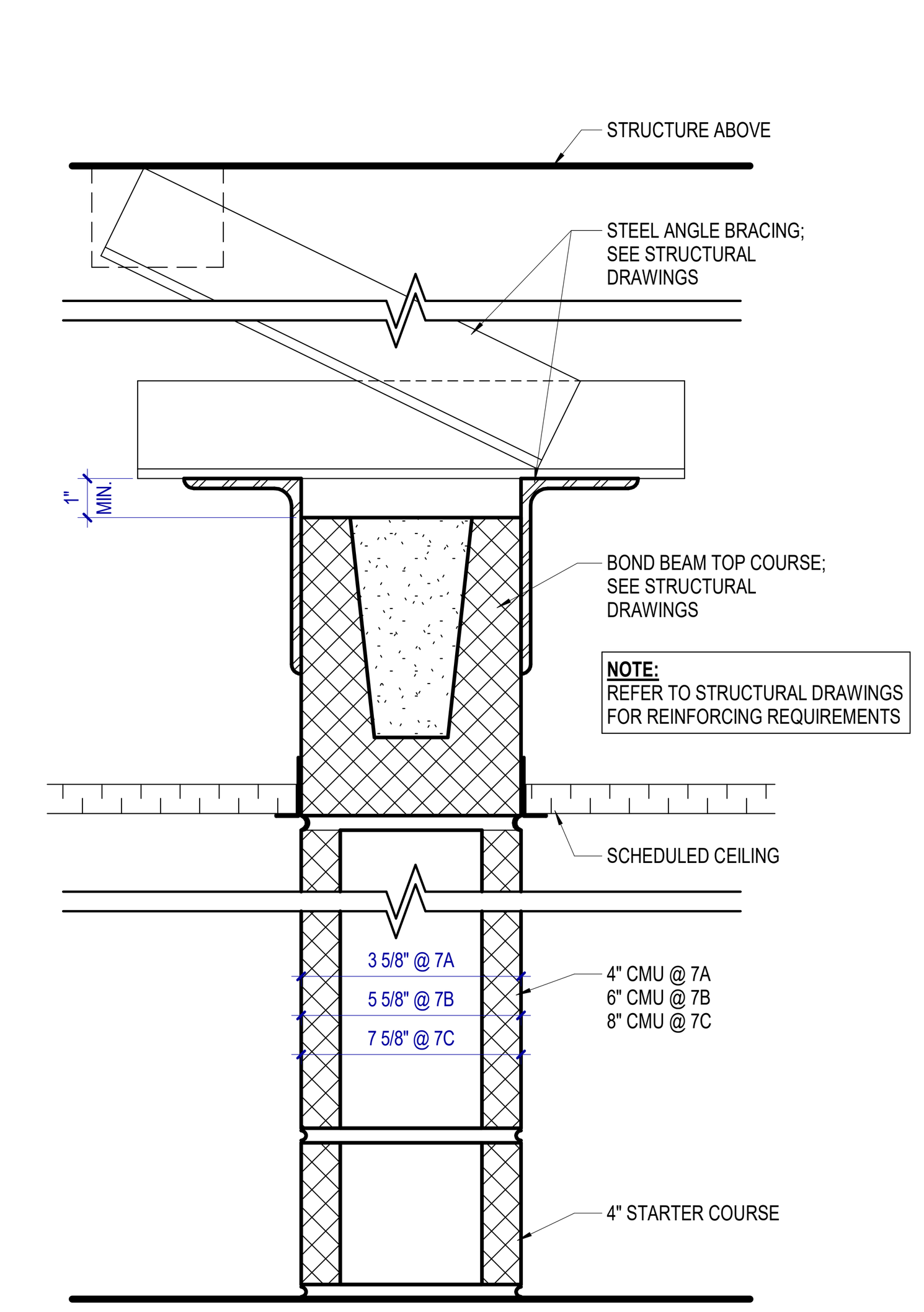
1. CARD READER
2. OVERHEAD COILING DOOR
3. OVERHEAD COILING COUNTER DOOR
4. DOOR IN STRUCTURAL BRICK WALL

LEGEND:

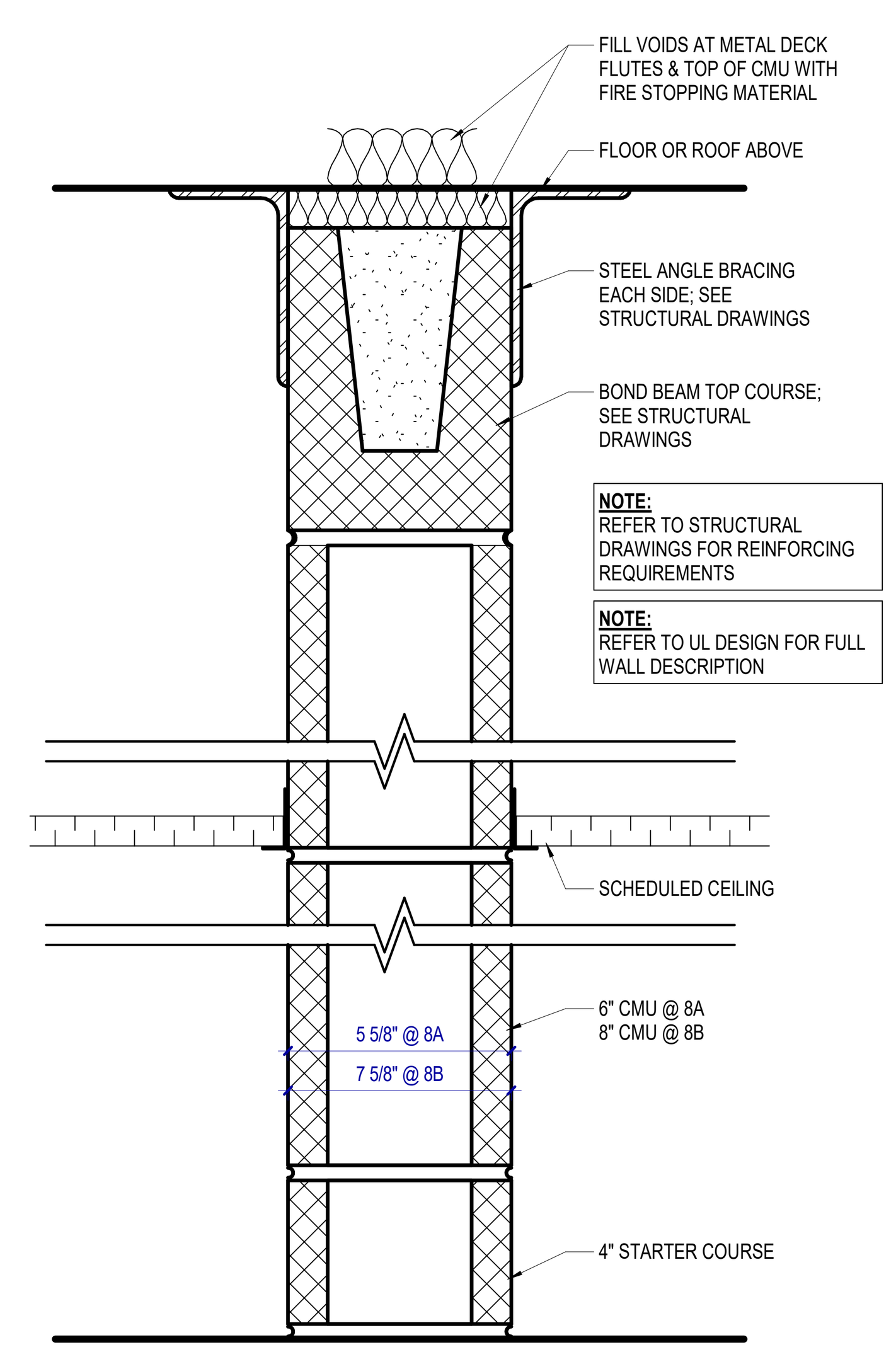
ALUM	ALUMINUM
CT	CLEAR TEMPERED
F.V.	FIELD VERIFY
HM	HOLLOW METAL
MANU	MANUFACTURER
PLAM	PLASTIC LAMINATE FINISH
PREFINISHED	PRE-FINISHED
SCWD	SOLID CORE WOOD DOOR
STL	STEEL

ALL INTERIOR DOOR AND WINDOW GLAZING SHALL BE TYPE 1. TYPICAL.
ALL EXTERIOR DOOR AND WINDOW GLAZING SHALL BE TYPE 2. TYPICAL.

GLAZING TYPES:
1. CLEAR INSULATED, LAMINATED GLASS

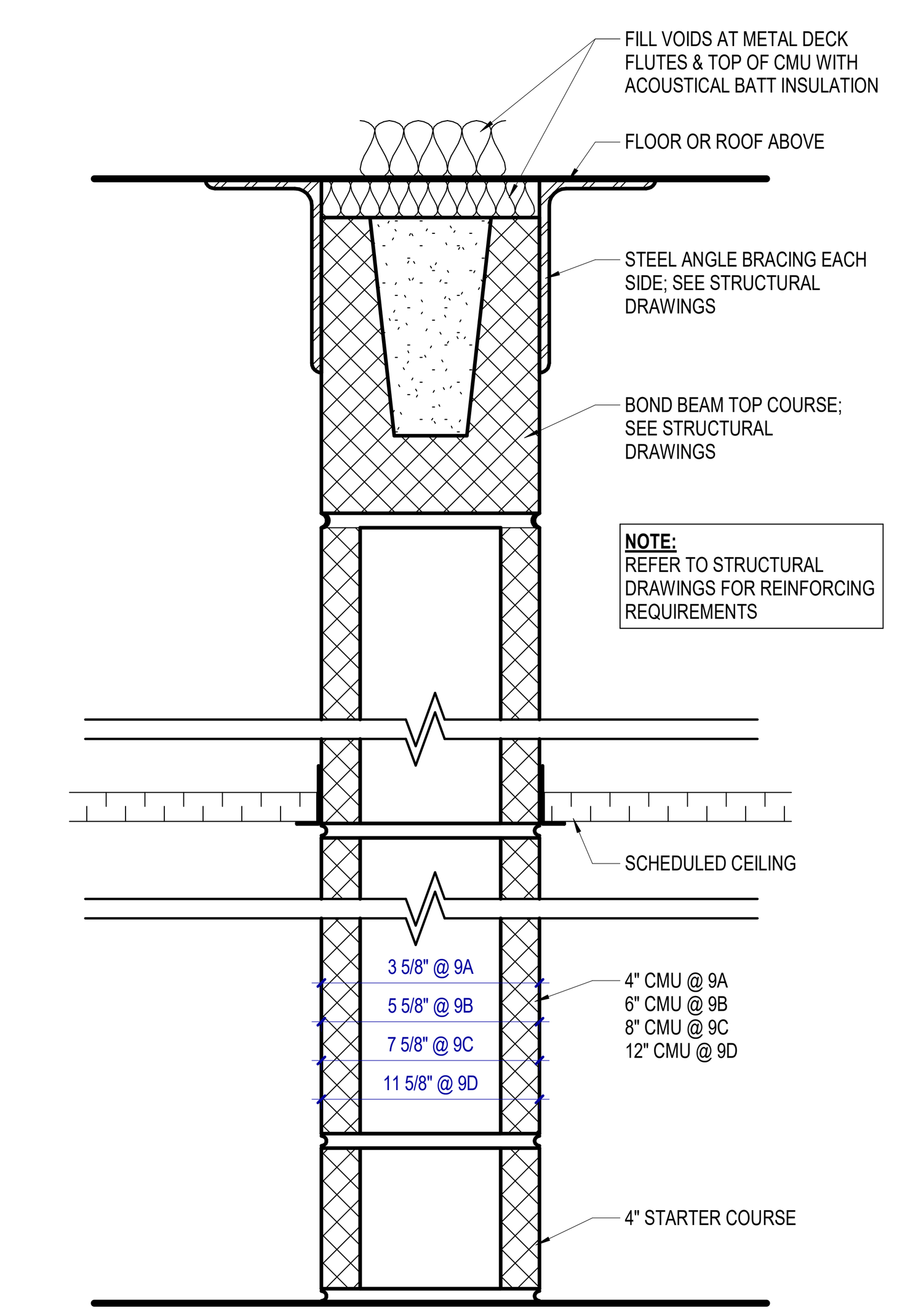


7 PARTITION TYPE 7A, 7B, 7C
3" = 1'-0"



8A: 1 OR 2 HOUR RATED WALL - UL DESIGN NO. U906
8B: 1 OR 2 HOUR RATED WALL - UL DESIGN NO. U905

8 PARTITION TYPE 8A, 8B
3" = 1'-0"



9 PARTITION TYPE 9A, 9B, 9C, 9D
3" = 1'-0"

BINDING EDGE

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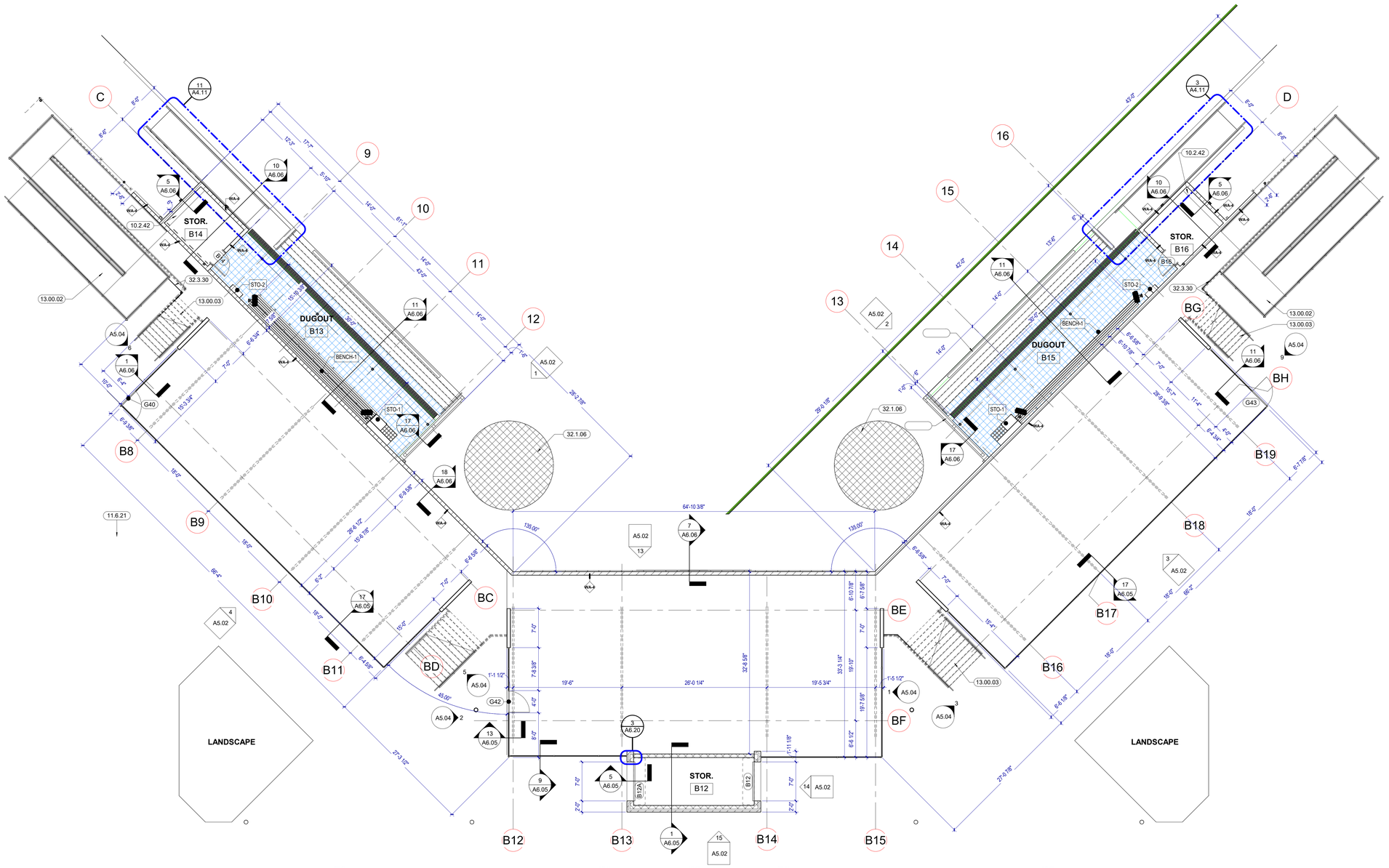
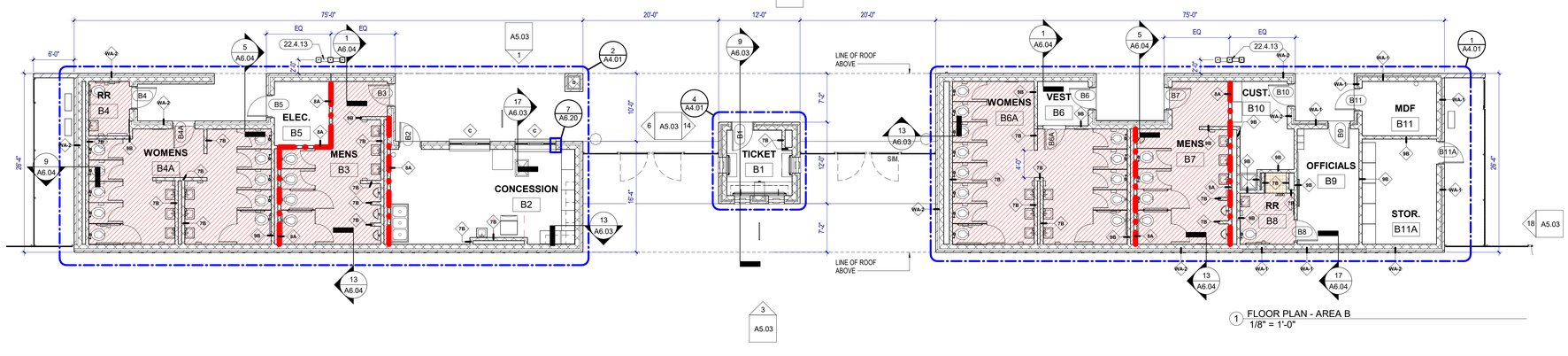
FLOORING LEGEND

- **F-4** RUBBER ATHLETIC MAT
- **F-5** CERAMIC TILE FLORING AND BASE
- **F-6** RESINOUS FLOORING AND BASE





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

GENERAL NOTES

1. REFER TO SHEET A9.30 FOR PARTITION TYPES.
2. TYPE 2A PARTITION IS TYPICAL. GYPSUM BOARD PARTITIONS NOT DESIGNATED SHALL BE TYPE 2A. FREE STANDING COLUMN ENCLOSURES SHALL BE PARTITION TYPE 6A, U.N.O. COLUMNS ADJACENT TO PARTITIONS SHALL MATCH ADJACENT WALL CONSTRUCTION IN APPEARANCE, U.N.O. TYPICAL COLUMN FURR OUT TO BE 10" FROM COLUMN CENTER LINE TO OUTSIDE FACE OF WALL IN BOTH DIRECTIONS U.N.O.
3. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES SHEET FOR ADDITIONAL INFORMATION.
4. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS AND INFORMATION.
5. REFER TO CASEWORK, EQUIPMENT & FLOOR PATTERN PLANS AND ABBREVIATION LEGEND FOR EQUIPMENT, ADDITIONAL INTERIOR ELEVATIONS, AND FINISH TAGS.
6. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES AND GLAZING LEGEND. REFER TO SHEETS A9.11 AND A9.12 FOR WINDOW TYPES.
7. REFER TO SHEET A0.03 FOR TYPICAL MOUNTING HEIGHTS.
8. PROVIDE CONCRETE CURBS AROUND ALL MECHANICAL ROOMS AND AT FLOOR PENETRATIONS WITHIN LEVEL 02 MECHANICAL ROOMS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONDUIT AND STRUCTURAL COLUMNS. PROVIDE SEALANT BETWEEN CURB AND PENETRATING ITEM FOR WATERPROOF JOINT. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE CURB DETAILS.

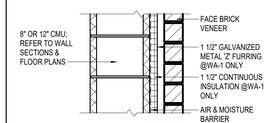
KEYED NOTES

KEYED NOTE	DESCRIPTION
10.2.42	WALL MOUNTED METAL SHELF @ 5'-0" O.C.
11.6.21	SAFETY NET POLE & POLE FOUNDATION BY SAFETY NET INSTALLER.
13.00.02	ALUMINUM RAMP BY BLEACHER MANUFACTURER
13.00.03	ALUMINUM STAIR BY BLEACHER MANUFACTURER
22.4.13	DRINKING FOUNTAIN, SEE PLUMBING DRAWINGS.
32.1.06	PISD TURF ATHLETIC DEPARTMENT LOGO GRAPHIC. ELECTRONIC FILE TO BE PROVIDED BY DEPARTMENT.
32.3.30	VINYL COATED CHAINLINK FENCE

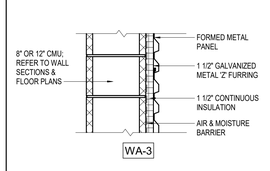
LEGEND

1 HOUR FIRE BARRIER

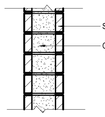
EXTERIOR WALL ASSEMBLIES



WA-1 & WA-2



WA-3



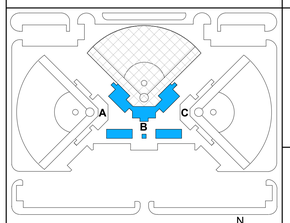
WA-4

QR CODES

MAIN ENTRACE AT TICKET BOOTH

PLAZA AT TICKET BOOTH

FIELD B



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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

GROUND LEVEL PLAN - AREA B

Sheet

A2.02.1

CONSTRUCTION DOCUMENTS

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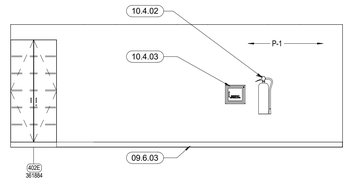
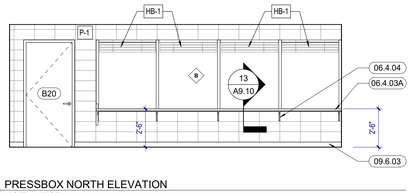
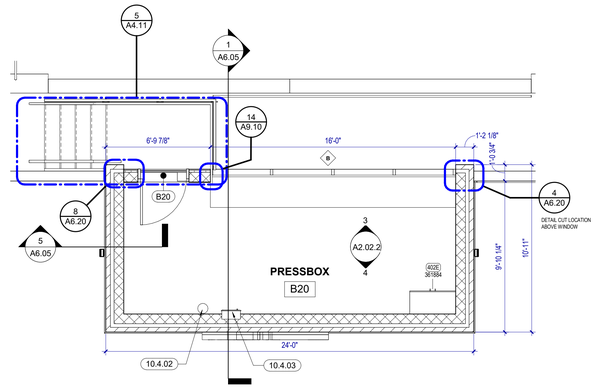


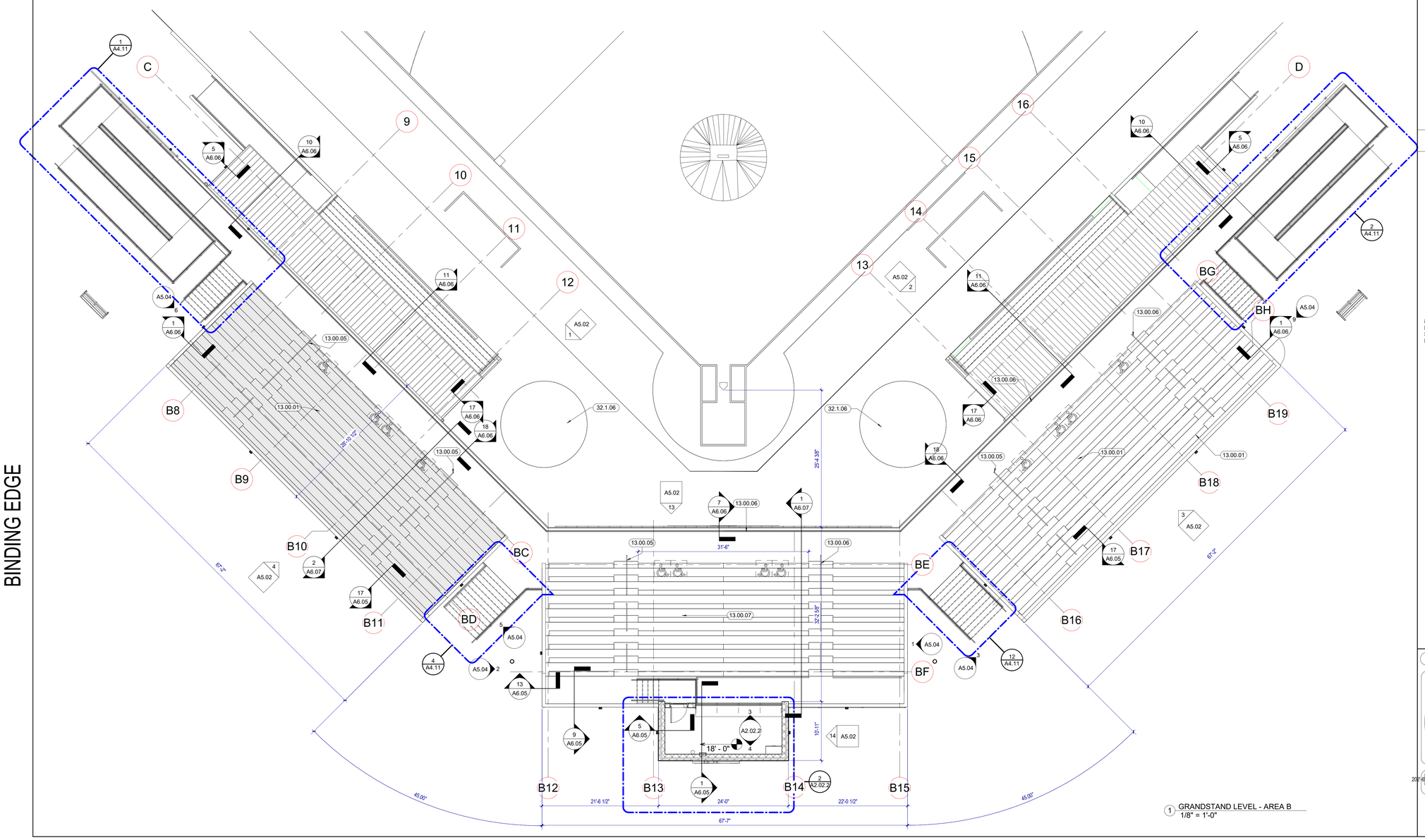
4 PRESSBOX SOUTH ELEVATION
1/4" = 1'-0"



3 PRESSBOX NORTH ELEVATION
1/4" = 1'-0"



2 PRESSBOX PLAN
1/4" = 1'-0"



1 GRANDSTAND LEVEL - AREA B
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET A9.30 FOR PARTITION TYPES.
2. TYPE 2A PARTITION IS TYPICAL. GYPSUM BOARD PARTITIONS NOT DESIGNATED SHALL BE TYPE 2A. FREE STANDING COLUMN ENCLOSURES SHALL BE PARTITION TYPE 6A, U.N.O. COLUMNS ADJACENT TO PARTITIONS SHALL MATCH ADJACENT WALL CONSTRUCTION IN APPEARANCE, U.N.O. TYPICAL COLUMN FURR OUT TO BE 10" FROM COLUMN CENTER LINE TO OUTSIDE FACE OF WALL IN BOTH DIRECTIONS U.N.O.
3. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES SHEET FOR ADDITIONAL INFORMATION.
4. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS AND INFORMATION.
5. REFER TO CASEWORK, EQUIPMENT & FLOOR PATTERN PLANS AND ABBREVIATION LEGEND FOR EQUIPMENT, ADDITIONAL INTERIOR ELEVATIONS, AND FINISH TAGS.
6. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES AND GLAZING LEGEND. REFER TO SHEETS A9.11 AND A9.12 FOR WINDOW TYPES.
7. REFER TO SHEET A0.03 FOR TYPICAL MOUNTING HEIGHTS.
8. PROVIDE CONCRETE CURBS AROUND ALL MECHANICAL ROOMS AND AT FLOOR PENETRATIONS WITHIN LEVEL 02 MECHANICAL ROOMS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONDUIT AND STRUCTURAL COLUMNS. PROVIDE SEALANT BETWEEN CURB AND PENETRATING ITEM FOR WATERPROOF JOINT. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE CURB DETAILS.

KEYED NOTES

KEYED NOTE	DESCRIPTION
06.4.03A	PLASTIC LAMINATE FINISH COUNTERTOP
06.4.04	COUNTER SUPPORT
09.6.03	SCHEDULED BASE
10.4.02	WALL MOUNTED FIRE EXTINGUISHER. INSTALL IN ALL MECHANICAL ROOMS. ELECTRICAL ROOMS.
10.4.03	DEFIBRILLATOR CABINET
13.00.01	ALUMINUM BLEACHERS
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
13.00.06	ALUMINUM RAILING BY BLEACHER MANUFACTURER
13.00.07	BLEACHER STEEL FRAMING BY BLEACHER MANUFACTURER
32.1.06	PISD TURF ATHLETIC DEPARTMENT LOGO GRAPHIC. ELECTRONIC FILE TO BE PROVIDED BY DEPARTMENT.

EXTERIOR WALL ASSEMBLIES

FIELD B | FIELD B DUGOUT | FIELD B AT BLEACHERS

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REGISTERED ARCHITECT JERRY G. BEVEL 10155 STATE OF TEXAS
14 February 2025

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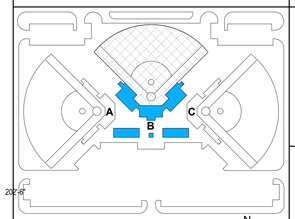

Title

GRANDSTAND LEVEL - AREA B

Sheet

A2.02.2

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Pasadena Independent School District



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Drawn	Author
Checked	Checker
Approved	Approver

Title

LEVEL 01 FINISH SCHEDULE, DOOR SCHEDULE & NOTES - AREA C

Sheet

A2.03 SCH

CONSTRUCTION DOCUMENTS

NOTES TO FINISH/COLOR SCHEDULE

GENERAL NOTES

1. ALL NOTES ON THIS SHEET MAY NOT NECESSARILY BE USED.
2. MANUFACTURER'S NAME AND IDENTIFICATION NUMBERS ARE LISTED AS A MEANS OF ESTABLISHING A STANDARD OF TYPE, FUNCTION, COLOR AND QUALITY. REFER TO SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS AND PROCEDURES. APPROVED MANUFACTURER'S COLORS SHALL MATCH THOSE LISTED IN THE COLOR SCHEDULE.
3. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A SAMPLE OF ALL FINISH MATERIALS FOR APPROVAL BEFORE MATERIALS ARE APPLIED ON THE JOB.
4. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION CONCERNING FINISH MATERIALS AND COLORS.
5. REFER TO FLOOR PATTERN LAYOUTS FOR FLOOR/COLOR SELECTIONS.
6. TRANSITION OF FLOOR FINISH MATERIALS SHALL OCCUR ON THE CENTERLINE OF DOOR.

PAINTING AND STAINING NOTES

1. ALL PAINTS SHALL BE EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
2. **PAINT A MINIMUM OF 6'-0" X 6'-0" OF EACH PAINT COLOR** AT PROJECT SITE FOR OWNER/ARCHITECT APPROVAL PRIOR TO APPLICATION.
3. UNLESS NOTED OTHERWISE, TERMINATE ALL ACCENT PAINTS AT INSIDE CORNERS.
4. UNLESS NOTED OTHERWISE, PAINT ANY VENTS, GRILLES, ETC. THE SAME COLOR AS THE WALL SURFACE ON WHICH THEY OCCUR.
5. UNLESS NOTED OTHERWISE, PAINT ALL VISION PANEL FRAMES IN INTERIOR DOORS TO MATCH FRAME COLOR.
6. PAINT ALL UNDESIGNATED GYPSUM BOARD CEILINGS P-2, UNLESS NOTED OTHERWISE.
7. ACCESS PANELS SHALL BE PAINTED THE SAME COLOR AS THE ADJACENT SURFACE ON WHICH THEY OCCUR.
8. UNLESS NOTED OTHERWISE, REVEALS SHALL BE CLEAR ANODIZED ALUMINUM FINISH.

PLASTIC LAMINATE NOTES

1. PLASTIC LAMINATE MILLWORK:
   - VERTICAL FACES - PL-1 UNLESS NOTED OTHERWISE
   - HORIZONTAL SURFACES/COUNTERS - PL-2 UNLESS NOTED OTHERWISE
2. LINER PANEL COLOR AT CLOSED CABINETRY SHALL BE WHITE.
3. INTERIOR AND SHELF SURFACES OF OPEN PLASTIC LAMINATE MILLWORK UNITS SHALL MATCH THE COLOR OF THE EXTERIOR LAMINATE.
4. PLASTIC LAMINATE WOOD DOORS SHALL BE PL-1 FINISH, UNLESS NOTED OTHERWISE.

METAL NOTES

1. NEW EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL BE CLEAR ANODIZED FINISH WITH CLEAR INSULATED LOW-E GLASS, UNLESS NOTED OTHERWISE.
2. FINISH HARDWARE SHALL BE SATIN ALUMINUM, UNLESS NOTED OTHERWISE.

CONCRETE AND MASONRY NOTES

1. ALL CONCRETE FLOORS THAT ARE NOT SCHEDULED TO RECEIVE A FLOOR FINISH SHALL BE SEALED.

FINISH/COLOR SCHEDULE LEGEND

AL - ALUMINUM STOREFRONT

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
ALUM.	AL-1		CLEAR ANODIZED

BG - BUILDING GRAPHICS (EXTERIOR SIGNAGE)

TYPE	MARK	MANUFACTURER	SIZE	COLOR	FONT
CAST ALUM.	BG-1		10"	WHITE	HELVETICA
	BG-2		8"	WHITE	HELVETICA
INTERNALLY LIT.	BG-3 (PISD LOGO)	TOWER GRAPHICS	SEE ELEV.	WHITE	N/A

* GRAPHIC ELECTRONIC FILE WILL BE PROVIDED BY ARCHITECT.

BR - BRICK/MASONRY

TYPE	MARK	MANUFACTURER	SIZE	COLOR	MORTAR
FACE BRICK	BR-1	INTERSTATE BRICK	4"X4"X16"	IRONSTONE	TBD
FACE BRICK	BR-1A	INTERSTATE BRICK	4"X4"X12"	IRONSTONE	TBD
ACCENT	BR-2	INTERSTATE BRICK	4" X 4" X 4"	IRONSTONE	TBD
STRUCTURAL BRICK	BR-3	INTERSTATE - ATLAS	4" X 8" X 16"	IRONSTONE	TBD

MT - METAL COPING/TRIM/PANEL

TYPE	MARK	MANUFACTURER	COLOR
FASCIA	MT-1	BERRIDGE	LEAD COTE
SOFFIT	MT-2	ARMSTRONG - LINEAR METAL PANELS METALWORKS 8"W	OAK EFFECTS
	MT-2A	BERRIDGE	LEAD COTE
GUTTER & DOWNSPOUT	MT-3	BERRIDGE	LEAD COTE
	MT-3A	BERRIDGE	LEAD COTE
FORMED METAL PANEL	MT-4	BERRIDGE - HR-16	LEAD COTE
ATHLETIC FENCE	MT-5	BERRIDGE - VEE PANEL	BLACK

F - FLOORS

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CONCRETE	F-1	SEALED CONCRETE		
MCT	F-2	FORBO - MCT	3888-STONE	PRESSBOX
SYNTHETIC TURF				MAIN FIELD
FIELD	F-3A		DARK GREEN	
FIELD	F-3B		LIGHT GREEN	
FOUL LINE	F-3C		WHITE	
ACCENT - BROWN	F-3D		BROWN	
TURF FIELD LOGO	F3E		PISD ATHLETIC LOGO	
(LOGO ELECTRONIC FILE TO BE PROVIDED UPON REQUEST.)				
ATHLETIC RUBBER MATS	F-4		BLACK	DUGOUTS
CERAMIC TILE	F-5	DALTILE -KEYSTONES	D204 ARTISAN BROWN SPECKLE	SHOWER
RESINOUS FLOORING	F-6	STONEHARD	STONEBLEND- STONE	RESTROOMS

B - BASE

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
RUBBER	B-1	ROPPE	PEWTER
RESTROOMS: RESINOUS	B-2	STONEHARD-STONEBLEND	STONE
SHOWER: CERAMIC TILE	B-3	DALTILE	ARTISAN BROWN SPECKLE-D204

P - PAINT

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
FIELD (WALL)	P-1	SHERWIN WILLIAMS	7012 CREAMY
FIELD (CEILING)	P-2	SHERWIN WILLIAMS	7008 ALABASTER
EXPOSED STRUC. STEEL COLUMNS	P-5	SHERWIN WILLIAMS	7655 STAMPED CONCRETE
DUGOUT EQUIPMENT	P-6	SHERWIN WILLAMS	9175 DEEP FOREST BROWN
EXTERIOR DOORS &	P-7	SHERWIN WILLIAMS	9175 DEEP FOREST BROWN
	P-7A	SHERWIN WILLIAMS	7655 STAMPED CONCRETE
MISC. FRAMES FIELD FENCE	P-8	SHERWIN WILLIAMS	MATCH FENCE COLOR

FINISH/COLOR SCHED. LEGEND, CONT'D.

C - CEILING

TYPE/LOCATION	MARK	MANUFACTURER	TYPE	SIZE	COLOR
ACOUSTICAL PANEL	C-1	ROCKFON -PACIFIC		2 X 2	WHITE
PAINTED CEILING GYPSUM BOARD	C-2				P-2
PAINTED EXPOSED STRUCTURE	C-2A				P-2
EPOXY PAINTED GYPSUM BOARD	C-2B				P-2
PAINTED EXPOSED STRUCTURE/ DECK (DUGOUTS)	C-2C				P-5

CT - CERAMIC TILE

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CERAMIC WALL TILE	CT-1	DALTILE	ARTISAN BROWN SPECKLE-D204	SHOWER

MB - MARKERBOARD

TYPE	MARK	MANUFACTURER	COLOR
MARKERBOARD	LC-1	CLARIDGE 48" X 48"	WHITE

TB - TACKBOARD

TYPE	MARK	MANUFACTURER	COLOR
TACKBOARD	TB-1	CLARIDGE - FABRICORK	C620 DOVER

SP - SAFETY PADS

TYPE	MARK	MANUFACTURER	COLOR	SIZE
SP - SAFETY PADS		PORTER	BLACK	SEE ELVATION

(See Elevation for PISD Athletics Logo within Safety Pad)

L - LOCKERS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
12" X 12" DOUBLE STACK/ OFFICIALS ROOM	L-1	PENCO	012 TAWNY WHITE

OHD/ OHCD - OVERHEAD DOORS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
CONCESSION	OHCD	COOKSON	RAL 8019
STORAGE	OHD	COOKSON	RAL 8019
TICKET BOOTH	OHD	COOKSON	RAL 8019

PL - PLASTIC LAMINATE

TYPE	MARK	MANUFACTURER	COLOR	LOCATION
CASEWORK	PL-1	FORMICA	EARTHEN WARP - 5880-58	(VERTICAL SURFACES)
	PL-1A	NEVAMAR	SILVERLINE HAUTELINK HLT004T	(VERTICAL SURFACES - CONCESSIONS)
	PL-2	NEVAMAR	PURE SPUN YARN - YSN002T	(HORIZONTAL SURFACES - PRESSBOX)
	PL-3	STAINLESS STEEL CLADDED COUNTER TOP		(CONCESSIONS)

TP - TOILET PARTITION

TYPE	MARK	MANUFACTURER	COLOR
HDPE	TP-1	SCRANTON PRODUCTS	NICKEL - HAMMERED

WB - HORIZONTAL LOUVER BLINDS

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
	WB-1	HUNTER DOUGLAS	065 BRUSHED ALUMINUM

WWF - WELDED WIRE FENCE/GATE

TYPE/LOCATION	MARK	MANUFACTURER	STYLE	COLOR
6FT / PER PLANS	WWF-1	DESIGNMASTER	CLASSIC	BLACK

VCLF - VINYL COATED CHAIN LINK FENCE

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
8FT / PER PLANS	VCLF-1		BLACK

WSC - WIND SCREEN

TYPE/LOCATION	MARK	MANUFACTURER	COLOR
PER PLANS	WSC-1		BLACK

ROOM SCHEDULE - LEVEL 01 - AREA C

Number	Name	Floor Finish	Base Finish	Wall Finish North	Wall Finish South	Wall Finish East	Wall Finish West	Ceiling Finish	Note
C1	DUGOUT	F-1/ F-4	-	-	P-1	-	-	C-2C	
C2	STOR.	F-1	-	P-1	P-1	P-1	P-1	C-2C	
C3	DUGOUT	F-1/ F-4	-	-	P-1	-	-	C-2C	
C4	STOR.	F-1	-	P-1	P-1	P-1	P-1	C-2C	

DOOR SCHEDULE - LEVEL 01 - AREA C

Mark	Construction Type	Door Width	Door Height	Door Material	Door Thickness	Door Finish	Fire Rating	Door HDW	Frame Type	Frame Material	Frame Finish	Jamb Detail	Head Detail	NOTE	Glazing Type	Plaque Type
C2	FL	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	01	HM	P-8	1/A9.10	2/A9.10			A
C4	FL	3' - 0"	6' - 10"	HM	0' - 1 3/4"	P-7		W205	01	HM	P-8	1/A9.10	2/A9.10			A

FINISH SCHEDULE NOTES

GENERAL NOTES:
A. NOTES FOR FINISH SCHEDULE SHEETS ONLY. ALL NOTES MAY NOT NECESSARILY BE USED.

NOTES:
1. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING PLAN, AND FLOOR PATTERN PLAN FOR ADDITIONAL INFORMATION.
2. REFER TO RESTROOM ELEVATIONS AND FLOOR PATTERN DETAIL FOR ADDITIONAL INFORMATION.
3. CERAMIC TILE (CT-1) AT FLOOR AND WALLS OF SHOWER.
4. EPOXY PAINT AT WALLS.
5. PROVIDE 4'-0" HIGH SST PANEL WAINSCOT AT FLOOR MOUNTED MOP SINK. WAINSCOT TO BE WIDTH OF SINK AT EACH WALL.

DOOR SCHEDULE GENERAL NOTES:

A. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES.

DOOR SCHEDULE NOTES:

1. CARD READER
2. OVERHEAD COILING DOOR
3. OVERHEAD COILING COUNTER DOOR
4. DOOR IN STRUCTURAL BRICK WALL

LEGEND:

ALUM	ALUMINUM
CT	CLEAR TEMPERED
F.V.	FIELD VERIFY
HM	HOLLOW METAL
MANU	MANUFACTURER
PLAM	PLASTIC LAMINATE FINISH
PREFINISHED	PRE-FINISHED
SCWD	SOLID CORE WOOD DOOR
STL	STEEL

ALL INTERIOR DOOR AND WINDOW GLAZING SHALL BE TYPE 1. TYPICAL.
ALL EXTERIOR DOOR AND WINDOW GLAZING SHALL BE TYPE 2. TYPICAL.

GLAZING TYPES:
1. CLEAR INSULATED, LAMINATED GLASS

BINDING EDGE

BINDING EDGE

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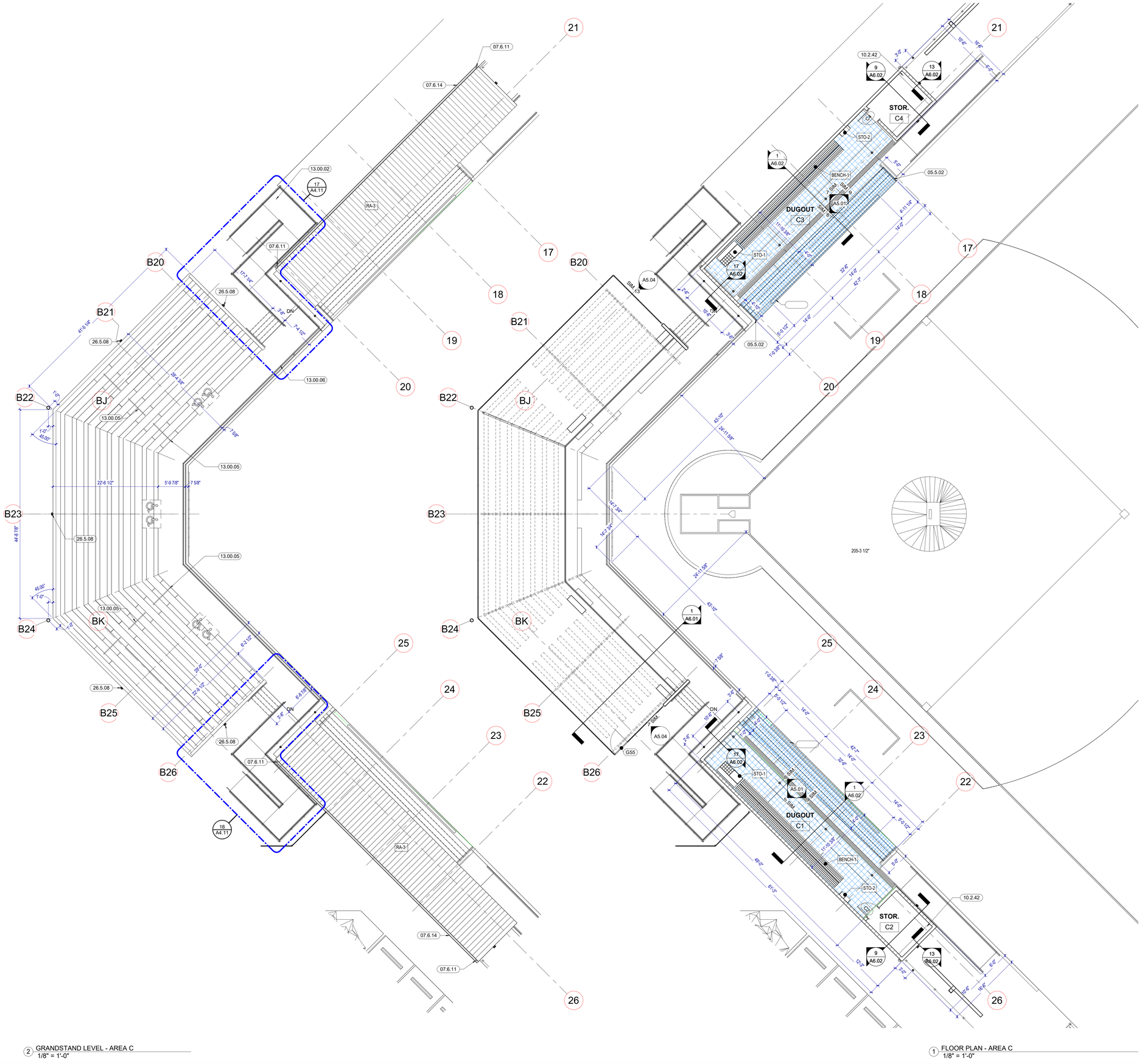

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GENERAL NOTES

1. REFER TO SHEET A9.30 FOR PARTITION TYPES.
2. TYPE 2A PARTITION IS TYPICAL. GYPSUM BOARD PARTITIONS NOT DESIGNATED SHALL BE TYPE 2A. FREE STANDING COLUMN ENCLOSURES SHALL BE PARTITION TYPE 6A, U.N.O. COLUMNS ADJACENT TO PARTITIONS SHALL MATCH ADJACENT WALL CONSTRUCTION IN APPEARANCE, U.N.O. TYPICAL COLUMN FURR OUT TO BE 10" FROM COLUMN CENTER LINE TO OUTSIDE FACE OF WALL IN BOTH DIRECTIONS U.N.O.
3. ALL INTERIOR DIMENSIONS ARE TAKEN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES SHEET FOR ADDITIONAL INFORMATION.
4. REFER TO ENLARGED PLANS FOR ADDITIONAL DIMENSIONS AND INFORMATION.
5. REFER TO CASEWORK, EQUIPMENT & FLOOR PATTERN PLANS AND ABBREVIATION LEGEND FOR EQUIPMENT, ADDITIONAL INTERIOR ELEVATIONS, AND FINISH TAGS.
6. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES AND GLAZING LEGEND. REFER TO SHEETS A9.11 AND A9.12 FOR WINDOW TYPES.
7. REFER TO SHEET A0.03 FOR TYPICAL MOUNTING HEIGHTS.
8. PROVIDE CONCRETE CURBS AROUND ALL MECHANICAL ROOMS AND AT FLOOR PENETRATIONS WITHIN LEVEL 02 MECHANICAL ROOMS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONDUIT AND STRUCTURAL COLUMNS. PROVIDE SEALANT BETWEEN CURB AND PENETRATING ITEM FOR WATERPROOF JOINT. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE CURB DETAILS.

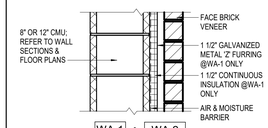
KEYED NOTES

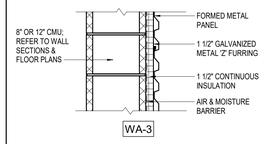
KEYED NOTE	DESCRIPTION
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
10.2.42	WALL MOUNTED METAL SHELF @ 5'-0" O.C.
13.00.02	ALUMINUM RAMP BY BLEACHER MANUFACTURER
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
13.00.06	ALUMINUM RAILING BY BLEACHER MANUFACTURER
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.

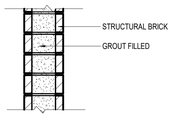
FLOORING LEGEND

- **F-4** RUBBER ATHLETIC MAT
- **F-5** CERAMIC TILE FLORING AND BASE
- **F-6** RESINOUS FLOORING AND BASE

EXTERIOR WALL ASSEMBLIES

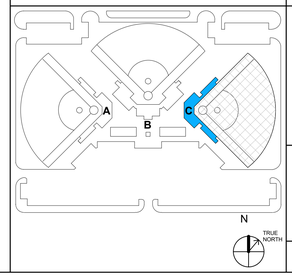






QR CODES

FIELD C



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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEELER 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

FLOOR PLANS - AREA C

Sheet

A2.03.1

CONSTRUCTION DOCUMENTS

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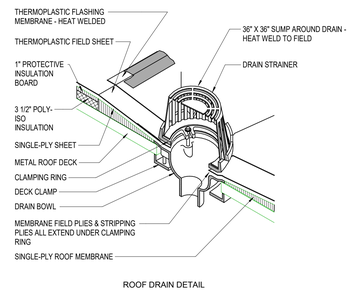
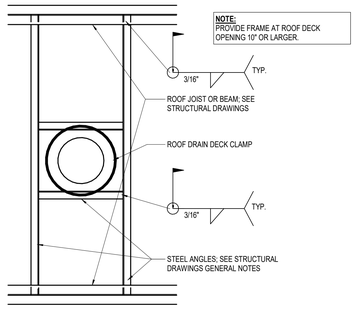
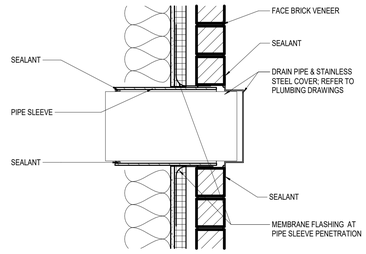


ROOF DRAIN DETAIL

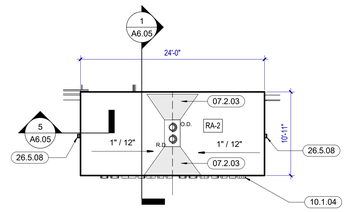
20 Roof Detail - Roof Drain
1 1/2" = 1'-0"



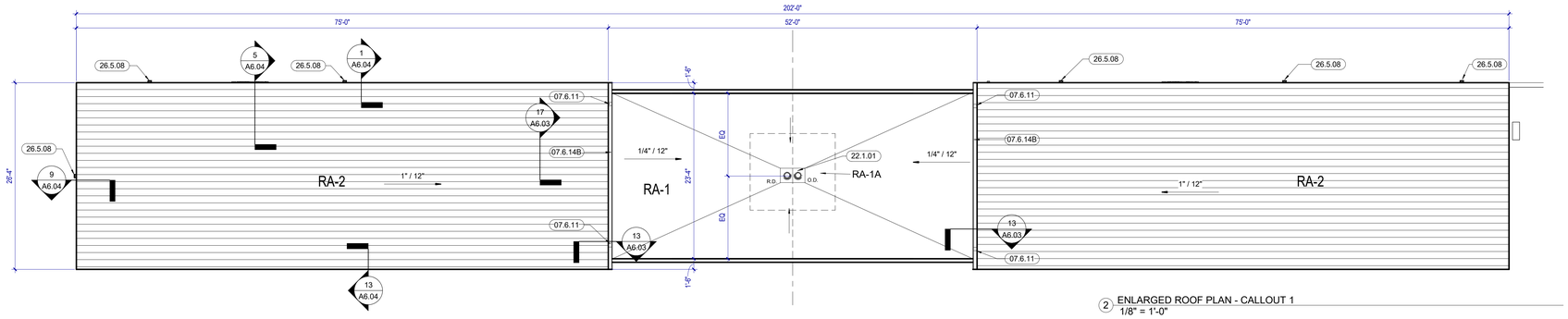
16 ROOF DRAIN SUPPORT DETAIL
1 1/2" = 1'-0"



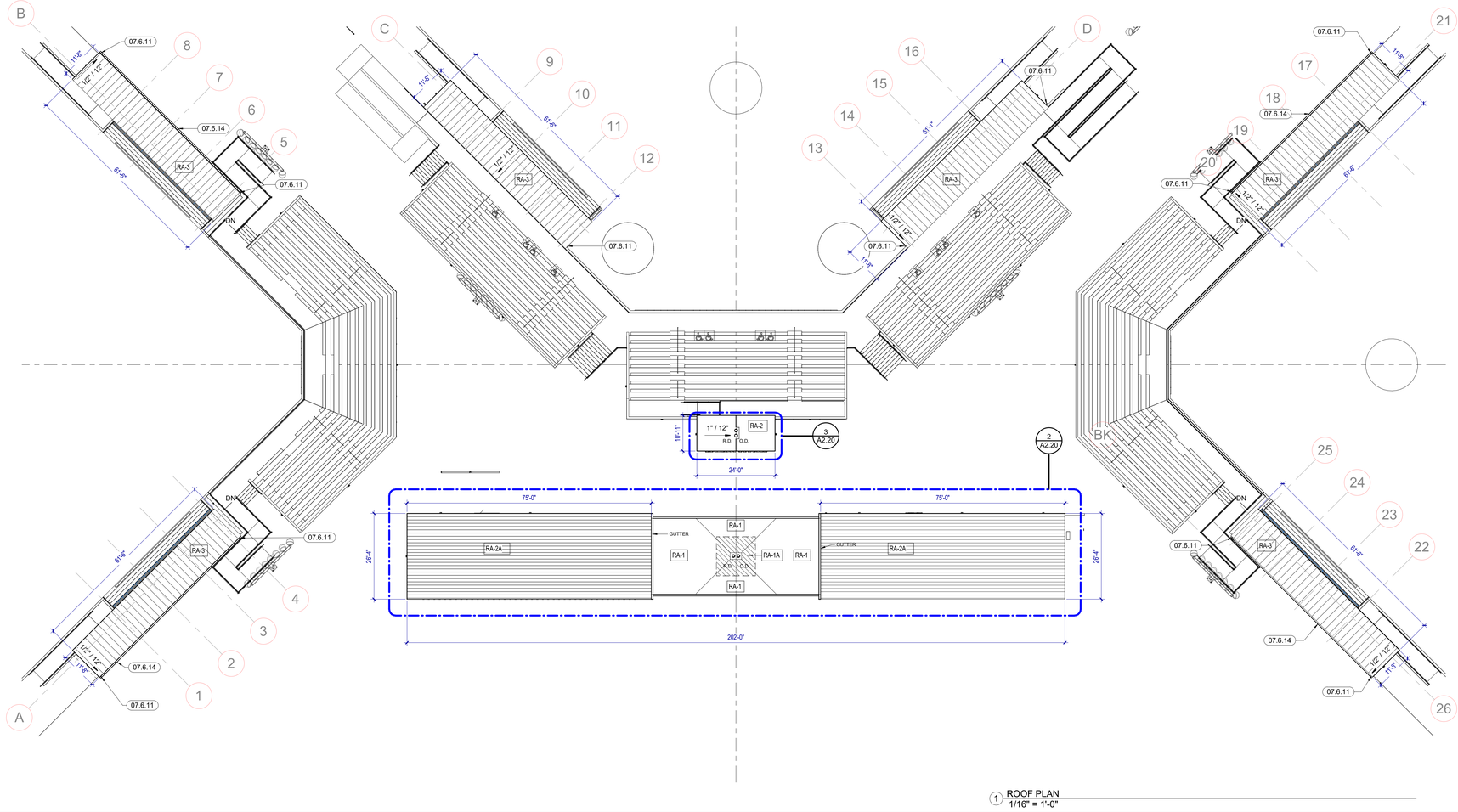
12 OVERFLOW DRAIN AT WALL DRAIN PIPE PENETRATION
1 1/2" = 1'-0"



3 ENLARGED ROOF PLAN - CALLOUT 2
1/8" = 1'-0"



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

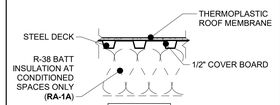


1 ROOF PLAN
1/16" = 1'-0"

KEYED NOTES

KEYED NOTE	DESCRIPTION
07.2.03	TAPERED INSULATION
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
07.6.14B	PRE-FINISHED METAL GUTTER (5"X5")
10.1.04	8" CAST ALUMINUM LETTERS
22.1.01	ROOF DRAIN AND OVERFLOW DRAIN
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.

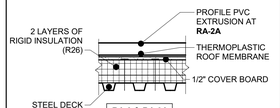
ROOF ASSEMBLY



RA-1 & RA-1A

ROOF MEMBRANE OVER 1/2" COVER BOARD OVER METAL DECK, R-38 BATT INSULATION BELOW DECK AT CONDITION SPACES.

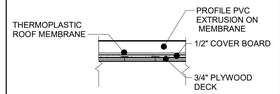
R-VALUE: 38.56 U-VALUE 0.025



RA-2 & RA-2A

ROOF MEMBRANE OVER 1/2" COVER BOARD OVER 4 1/2" MIN. RIGID INSULATION BOARD ON METAL DECK

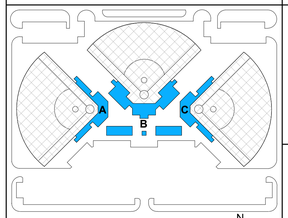
R-VALUE: 27 U-VALUE 0.037



RA-3

ROOF MEMBRANE ON 1/2" COVER BOARD ON 3/4" PLYWOOD DECK

28'-2" TOP OF STEEL. COORDINATE WITH STRUCTURAL DRAWINGS.



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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEKEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

OVERALL ROOF PLAN

Sheet

A2.20

CONSTRUCTION DOCUMENTS

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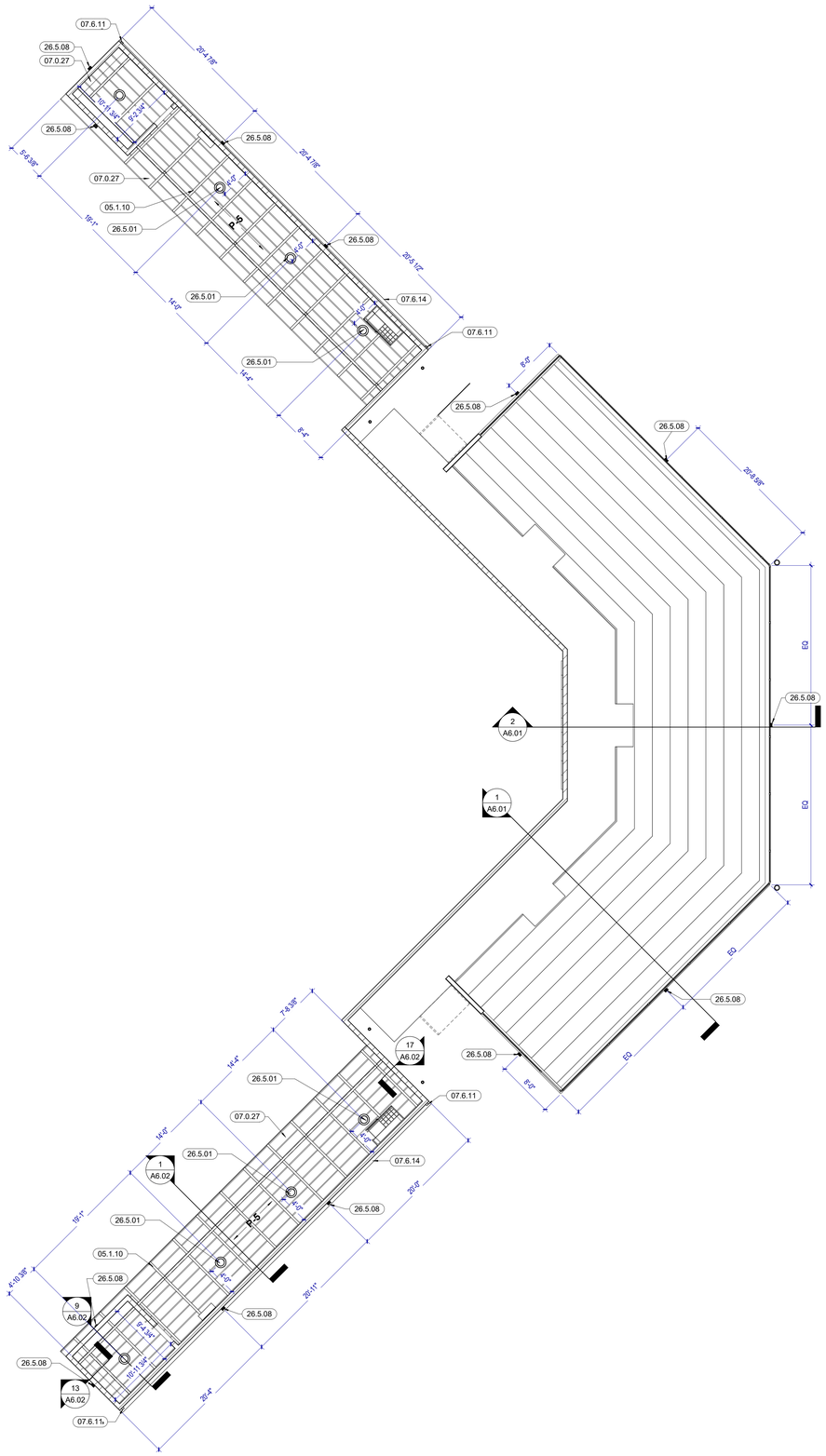

1 REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

1. ALL CEILING HEIGHTS ARE BASED ON HEIGHT ABOVE FINISH FLOOR.
2. ALL LAY-IN CEILINGS ARE AT 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF LIGHT FIXTURES.
4. ELECTRICAL LIGHT FIXTURES ARE DRAWN AS GENERAL TYPES FOR LAYOUT REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ACTUAL FIXTURE INFORMATION.
5. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL ITEMS NOT SHOWN ON REFLECTED CEILING PLANS.
6. PAINT ALL EXPOSED LINTELS THE SAME COLOR AS THE ADJACENT SURFACE ON WHICH THEY OCCUR.

R.C.P. LEGEND

- 2X2 LAY-IN ACOUSTICAL GRID CEILING
- GYPSUM BOARD CEILING
- 2X2 RECESSED LIGHT FIXTURE
- 6" RECESSED LINEAR LIGHT FIXTURE
- RECESSED DOWNLIGHT
- SURFACE MOUNTED LIGHT FIXTURE
- X - X' — CEILING TYPE MARK, RE: FINISH/COLOR SCHED. LEGEND
  X' - X" — CEILING HEIGHT, A.F.F.

KEYED NOTES

KEYED NOTE	DESCRIPTION
05.1.10	PAINTED TAPERED STRUCTURE. SEE STRUCTURAL DRAWINGS.
07.0.27	RA-3 PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON PLYWOOD DECK.
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.

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PASADENA ISD SOFTBALL COMPLEX

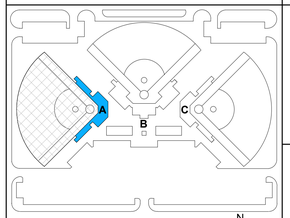
1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL STATE OF TEXAS 10153
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver



Title

LEVEL 01 REFLECTED CEILING PLAN - AREA A

Sheet

A3.01

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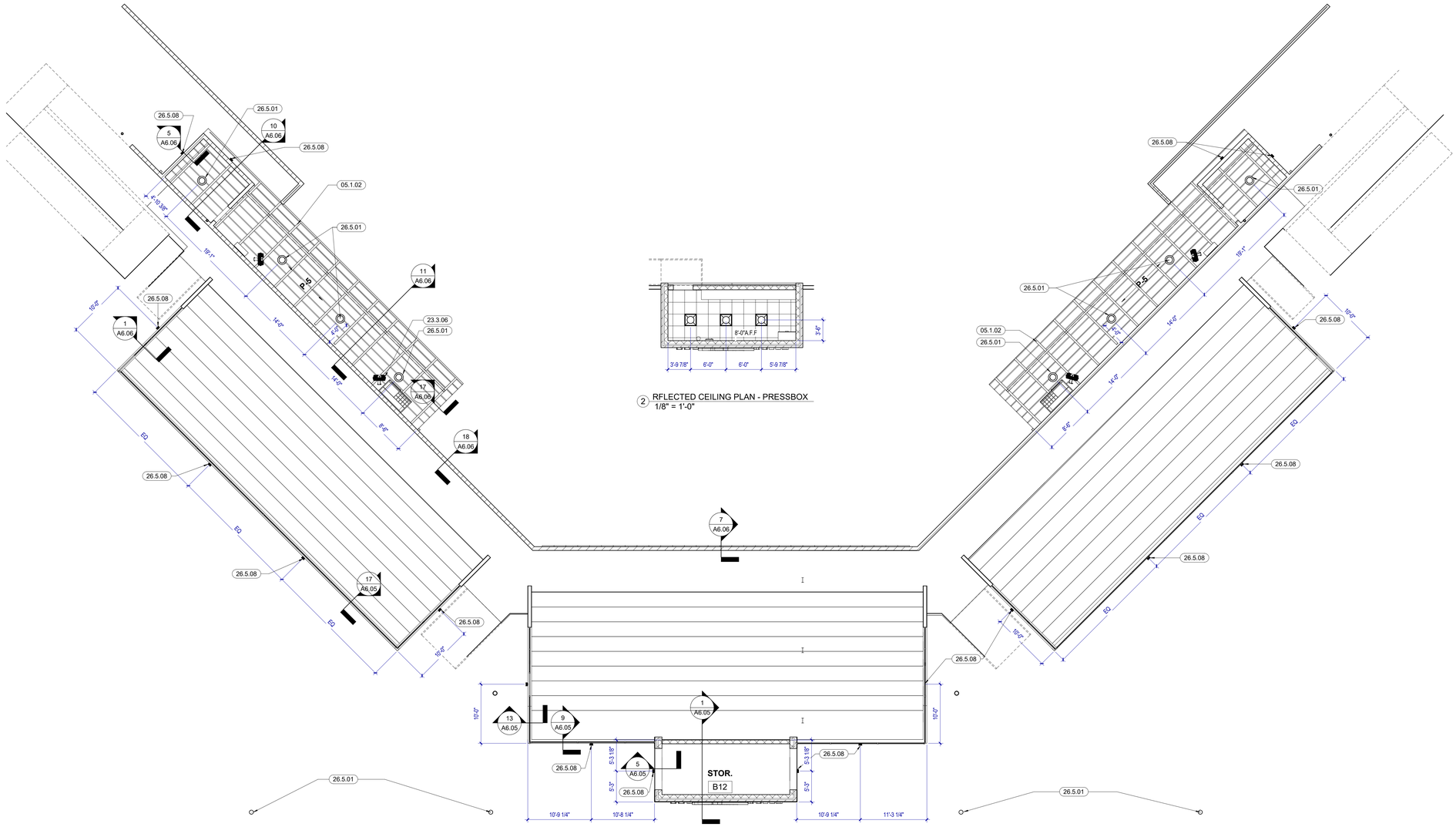
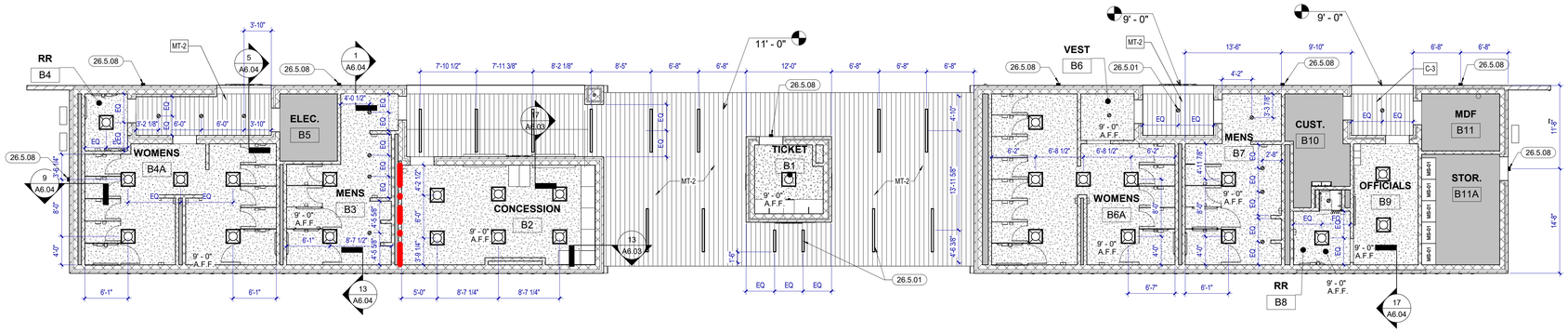


2 RFLECTED CEILING PLAN - PRESSBOX
1/8" = 1'-0"



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

GENERAL NOTES

1. ALL CEILING HEIGHTS ARE BASED ON HEIGHT ABOVE FINISH FLOOR.
2. ALL LAY-IN CEILINGS ARE AT 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF LIGHT FIXTURES.
4. ELECTRICAL LIGHT FIXTURES ARE DRAWN AS GENERAL TYPES FOR LAYOUT REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ACTUAL FIXTURE INFORMATION.
5. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL ITEMS NOT SHOWN ON REFLECTED CEILING PLANS.
6. PAINT ALL EXPOSED LINTELS THE SAME COLOR AS THE ADJACENT SURFACE ON WHICH THEY OCCUR.

R.C.P. LEGEND

- 2X2 LAY-IN ACOUSTICAL GRID CEILING
- GYPSUM BOARD CEILING
- 2X2 RECESSED LIGHT FIXTURE
- 6" RECESSED LINEAR LIGHT FIXTURE
- RECESSED DOWNLIGHT
- SURFACE MOUNTED LIGHT FIXTURE
- X - X' — CEILING TYPE MARK, RE: FINISH/COLOR SCHED. LEGEND
  X' - X" — CEILING HEIGHT, A.F.F.

KEYED NOTES

KEYED NOTE	DESCRIPTION
05.1.02	STRUCTURAL STEEL BEAM. SEE STRUCTURAL DRAWINGS
23.3.06	
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.

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Approved	Approver

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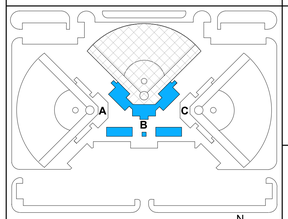
LEVEL 01 REFLECTED CEILING PLAN - AREA B



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A3.02

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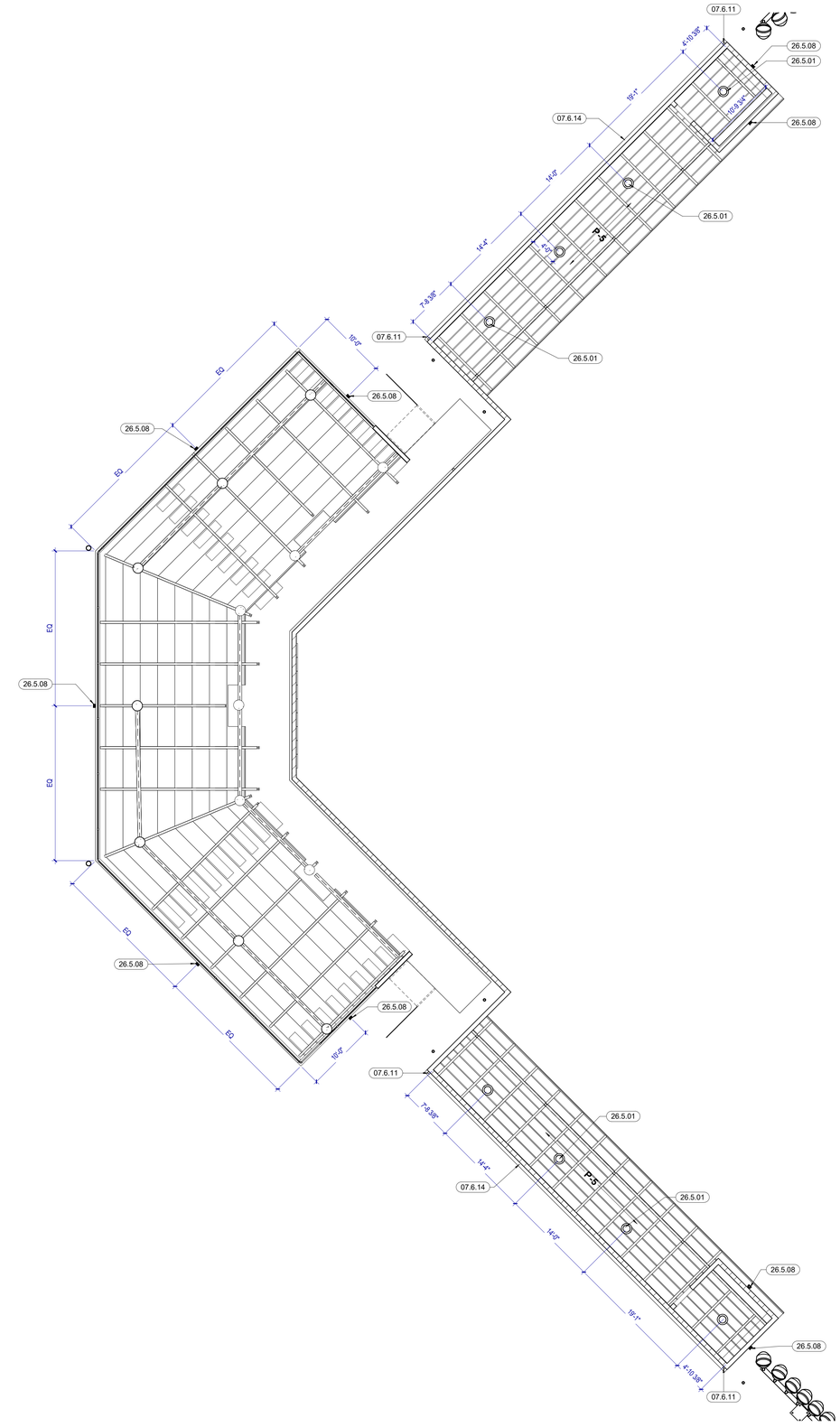


1 REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES

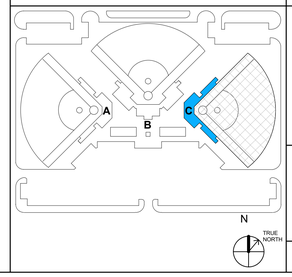
1. ALL CEILING HEIGHTS ARE BASED ON HEIGHT ABOVE FINISH FLOOR.
2. ALL LAY-IN CEILINGS ARE AT 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF LIGHT FIXTURES.
4. ELECTRICAL LIGHT FIXTURES ARE DRAWN AS GENERAL TYPES FOR LAYOUT REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ACTUAL FIXTURE INFORMATION.
5. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL ITEMS NOT SHOWN ON REFLECTED CEILING PLANS.
6. PAINT ALL EXPOSED LINTELS THE SAME COLOR AS THE ADJACENT SURFACE ON WHICH THEY OCCUR.

R.C.P. LEGEND

- 2X2 LAY-IN ACOUSTICAL GRID CEILING
- GYPSUM BOARD CEILING
- 2X2 RECESSED LIGHT FIXTURE
- 6" RECESSED LINEAR LIGHT FIXTURE
- RECESSED DOWNLIGHT
- SURFACE MOUNTED LIGHT FIXTURE
- X - X" — CEILING TYPE MARK, RE: FINISH/COLOR SCHED. LEGEND
  X' - X" — CEILING HEIGHT, A.F.F.

KEYED NOTES

KEYED NOTE	DESCRIPTION
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.



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LEVEL 01 REFLECTED CEILING PLAN - AREA C

Sheet

A3.03

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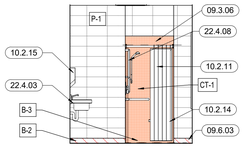
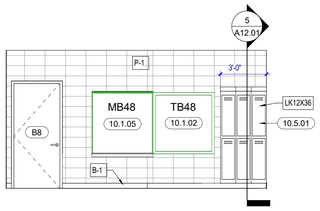
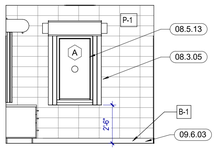


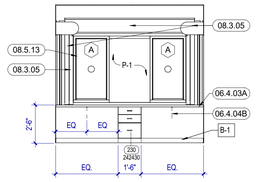
20 Restroom / Shower B8 North Elevation
1/4" = 1'-0"



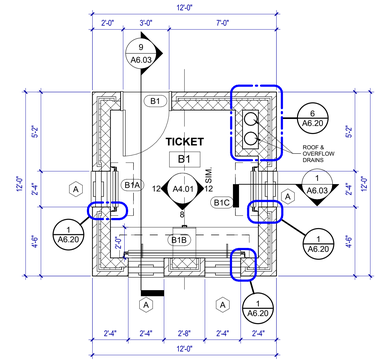
16 OFFICIALS B9 - WEST ELEVATION
1/4" = 1'-0"



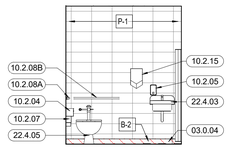
12 TICKET BOOTH EAST ELEVATION
1/4" = 1'-0"



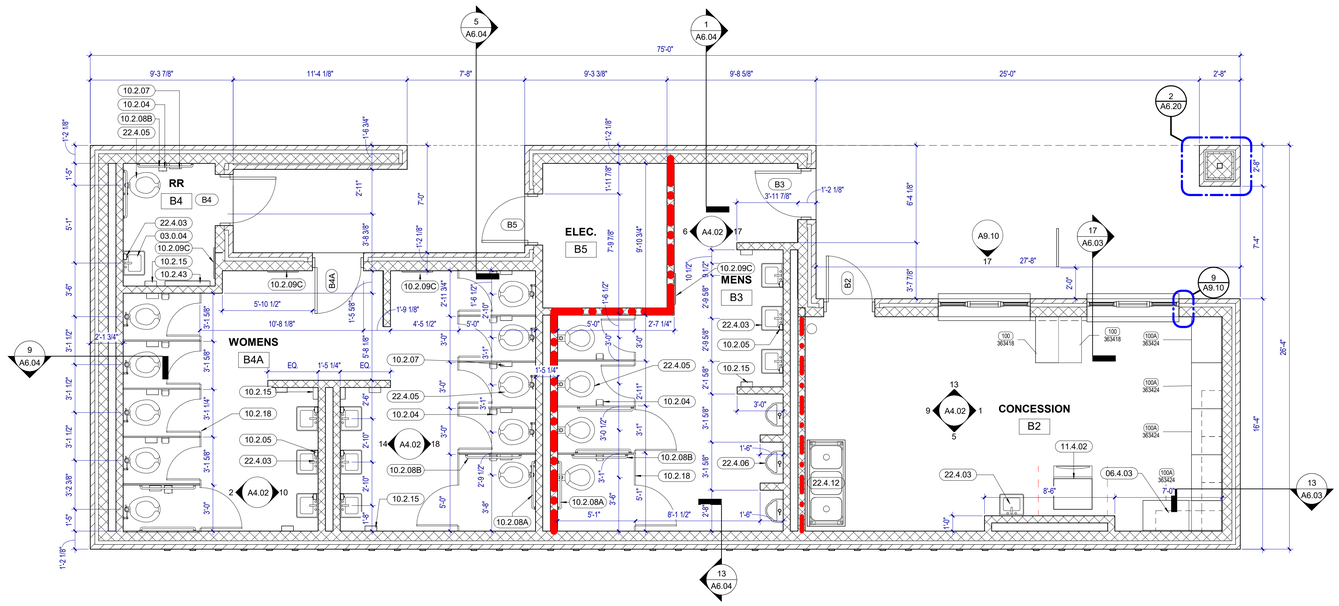
8 TICKET BOOTH NORTH ELEVATION
1/4" = 1'-0"



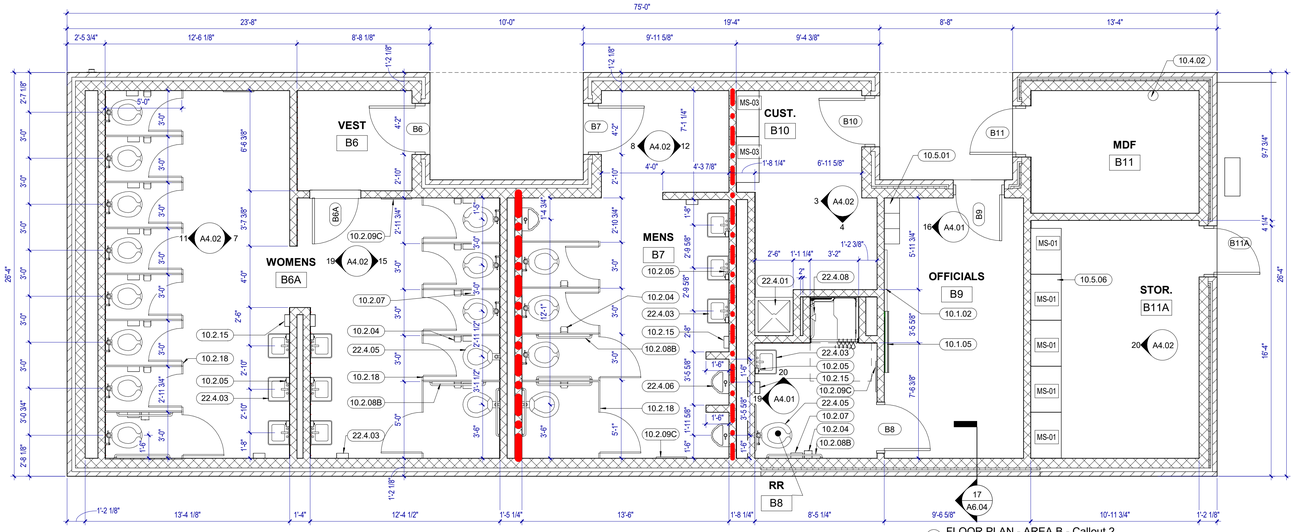
4 FLOOR PLAN - TICKET BOOTH
1/4" = 1'-0"



19 RESTROOM/ SHOWER B8 WEST ELEVATION.
1/4" = 1'-0"



2 FLOOR PLAN - AREA B - Callout 1
1/4" = 1'-0"



1 FLOOR PLAN - AREA B - Callout 2
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO TABLE AND DETAILS ON SHEET A0.03 FOR FIXTURE AND TOILET ACCESSORIES MOUNTING HEIGHTS.
2. REFER TO CASEWORK, EQUIPMENT, & FLOOR PATTERN SERIES SHEETS FOR ADDITIONAL INTERIOR ELEVATIONS AND FINISH TAGS. REFER TO "SCH" SERIES SHEETS FOR ROOM FINISH SCHEDULE AND DOOR SCHEDULES
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL, PLUMBING AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF FIXTURES.
4. REFER TO FLOOR AND WALL TILE PATTERNS BELOW FOR TYPICAL APPLICATION. REFER TO FINISH SCHEDULE FOR TILE COLORS.
5. PROVIDE TILE BACKING PANEL AND SHEET WATERPROOFING MEMBRANE AT METAL STUD WALL PARTITIONS RECEIVING CERAMIC TILE.
6. OUTLETS AND RECEPTACLES SHALL BE MOUNTED IN THE CENTER OF TILE. TYPICAL.
7. PROVIDE SOLID WOOD OR METAL STUD BLOCKING WITHIN STUD WALLS AND SUBSTANTIAL MOUNTING ON MASONRY WALLS FOR TOILET ACCESSORIES .

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
06.4.03	COUNTERTOP
06.4.03A	PLASTIC LAMINATE FINISH COUNTERTOP
06.4.04B	METAL ANGLE BRACKET 18"LX15"H FOR 24" DEEP COUNTERTOP
08.3.05	OVER COUNTER COILING DOOR
08.5.13	TRANSACTION WINDOW
09.3.06	CERAMIC TILE
09.6.03	SCHEDULED BASE
10.1.02	TACK BOARD
10.1.05	TACK/MAP RAIL
10.2.04	TOILET TISSUE DISPENSER
10.2.05	SOAP DISPENSER, O.F.C.I.
10.2.07	SANITARY NAPKIN DISPOSAL UNIT
10.2.08A	36" GRAB BAR
10.2.08B	42" GRAB BAR
10.2.09C	24"X60" FRAMED MIRROR
10.2.11	SHOWER ROD & CURTAIN
10.2.14	ACCESSIBLE SHOWER BENCH
10.2.15	ELECTRIC HAND DRYER
10.2.18	FLOOR MOUNTED TOILET PARTITION. REFER TO SHEET A0.03 AND A4 SHEETS FOR DIMENSIONS
10.2.43	WALL MOUNTED FOLDABLE BABY CHANGING TABLE
10.4.02	WALL MOUNTED FIRE EXTINGUISHER. INSTALL IN ALL MECHANICAL ROOMS, ELECTRICAL ROOMS.
10.5.01	LOCKER, REFER TO PLAN FOR TYPES.
10.5.06	METAL STORAGE SHELVING
11.4.02	ICE MAKER
22.4.01	MOP SINK, MOP RACK & 4'-0" HIGH FRP PANEL WAINSCOT ON WALL ADJACENT TO SINK.
22.4.03	WALL MOUNTED LAVATORY
22.4.05	FLOOR MOUNTED TOILET
22.4.06	WALL MOUNTED URINAL
22.4.08	SHOWER CONTROL AREA
22.4.12	WASH SINK

CASEWORK SCHEDULE

Type Mark	Width	Depth	Height
100	3' - 0"	1' - 6"	2' - 10"
100A	3' - 0"	2' - 0"	2' - 10"
230	1' - 6"	2' - 0"	2' - 6"
301A	1' - 10"	1' - 4"	2' - 6"
302A	3' - 0"	1' - 4"	2' - 6"
402E	3' - 0"	1' - 6"	7' - 0"

EQUIPMENT SCHEDULE - CFCI

EQ ID	EQ DESCRIPTION
BENCH-1	DUGOUT BENCH
LK12X36	2 TIER LOCKER
MS-01	METAL SHELVING UNIT
MS-03	METAL SHELVING UNIT
STO-1	DUGOUT HELMET/BAT RACKS
STO-2	COACH STATION
WS-01	WALL MOUNTED SHELF

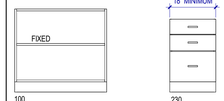
CASEWORK LEGEND

Woodworking Institute

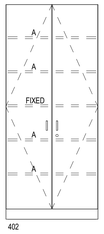
Casework Design Series (CDS) Numbering System

NOTES:
1) SOME UNITS BELOW MAY NOT BE USED
2) BASE CABINETS SHALL BE 24" DEEP U.N.O.
3) WALL HUNG CABINETS SHALL BE 16" DEEP U.N.O.
4) TALL STORAGE CABINETS SHALL BE 24" DEEP U.N.O.
5) REFER TO A8 SHEETS FOR CONSTRUCTION DETAILS.
6) ALL CASEWORK PLASTIC LAMINATE FINISH U.N.O.
7) GROMMETS WHERE INDICATED; COORDINATE WITH ARCHITECT / OWNER FOR FINAL LOCATIONS.

BASE CABINETS



TALL STORAGE CABINETS



NOTE:
REFER TO A8 DRAWING SHEETS FOR CASEWORK DETAILS

LEGEND:
A = ADJUSTABLE SHELF
FIXED = FIXED SHELF

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ENLARGED FLOOR PLANS AND ELEVATIONS

Sheet

A4.01

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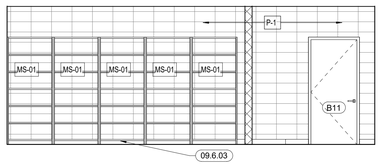
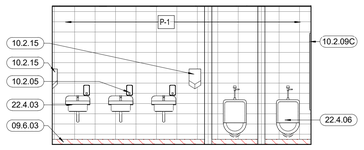
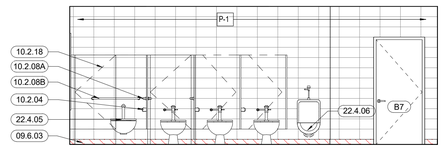


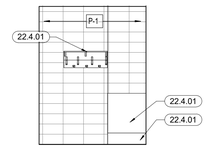
20 STORAGE B11 WEST ELEVATION
1/4" = 1'-0"



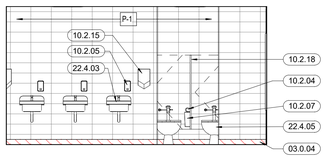
12 MENS RR B7 WEST ELEV.
1/4" = 1'-0"



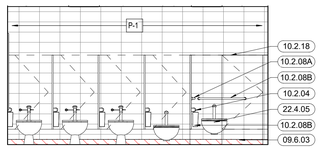
8 MENS RR B7 EAST ELEV.
1/4" = 1'-0"



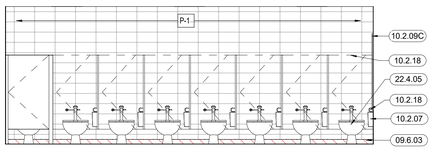
4 CUSTODIAL B10 SOUTH ELEV.
1/4" = 1'-0"



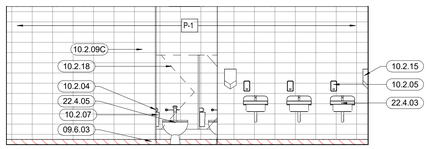
19 WOMENS RR B6A WEST ELEV. 2
1/4" = 1'-0"



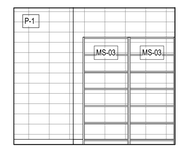
15 WOMENS RR B6A EAST ELEV. 2
1/4" = 1'-0"



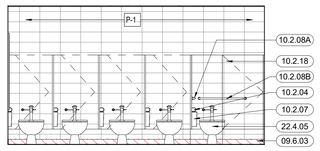
11 WOMENS RR B6A WEST ELEV.
1/4" = 1'-0"



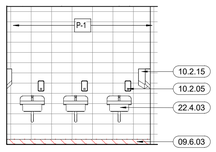
7 WOMENS RR B6A EAST ELEV.
1/4" = 1'-0"



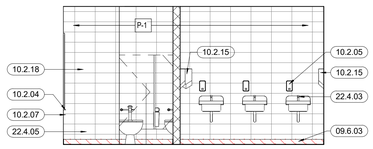
3 CUSTODIAL B10 WEST ELEV.
1/4" = 1'-0"



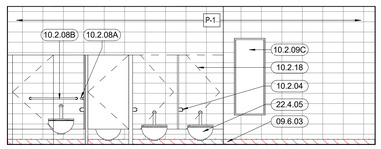
18 WOMENS RR B4A EAST ELEV. 2
1/4" = 1'-0"



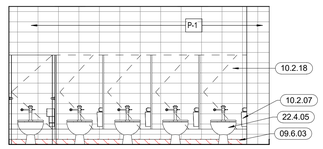
14 WOMENS RR B4A WEST ELEV. 2
1/4" = 1'-0"



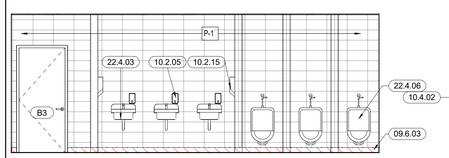
10 WOMENS RR B4A EAST ELEV.
1/4" = 1'-0"



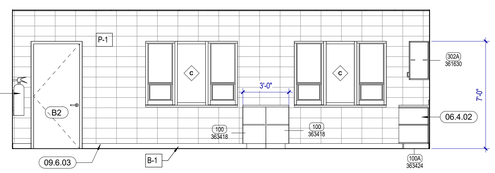
6 MENS RR B3 WEST ELEV.
1/4" = 1'-0"



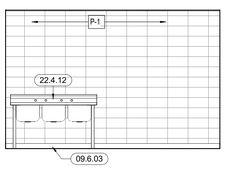
2 WOMENS RR B4A WEST ELEV.
1/4" = 1'-0"



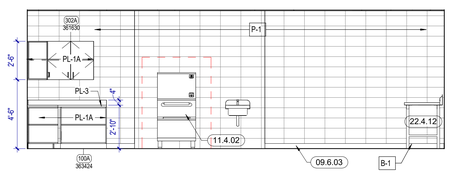
17 MENS RR B3 EAST ELEV.
1/4" = 1'-0"



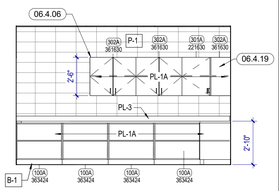
13 B2 CONCESSION - NORTH ELEV.
1/4" = 1'-0"



9 B2 CONCESSION - WEST ELEV.
1/4" = 1'-0"



5 B2 CONCESSION - SOUTH ELEV.
1/4" = 1'-0"



1 B2 CONCESSION - EAST ELEV.
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO TABLE AND DETAILS ON SHEET A0.03 FOR FIXTURE AND TOILET ACCESSORIES MOUNTING HEIGHTS.
2. REFER TO CASEWORK, EQUIPMENT, & FLOOR PATTERN SERIES SHEETS FOR ADDITIONAL INTERIOR ELEVATIONS AND FINISH TAGS. REFER TO "SCH" SERIES SHEETS FOR ROOM FINISH SCHEDULE AND DOOR SCHEDULES
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL, PLUMBING AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION OF FIXTURES.
4. REFER TO FLOOR AND WALL TILE PATTERNS BELOW FOR TYPICAL APPLICATION. REFER TO FINISH SCHEDULE FOR TILE COLORS.
5. PROVIDE TILE BACKING PANEL AND SHEET WATERPROOFING MEMBRANE AT METAL STUD WALL PARTITIONS RECEIVING CERAMIC TILE.
6. OUTLETS AND RECEPTACLES SHALL BE MOUNTED IN THE CENTER OF TILE. TYPICAL.
7. PROVIDE SOLID WOOD OR METAL STUD BLOCKING WITHIN STUD WALLS AND SUBSTANTIAL MOUNTING ON MASONRY WALLS FOR TOILET ACCESSORIES .

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
06.4.02	CASEWORK. SEE CASEWORK ELEVATIONS.
06.4.06	FILLER PANEL
06.4.19	FINISHED END
09.6.03	SCHEDULED BASE
10.2.04	TOILET TISSUE DISPENSER
10.2.05	SOAP DISPENSER, O.F.C.I.
10.2.07	SANITARY NAPKIN DISPOSAL UNIT
10.2.08A	36" GRAB BAR
10.2.08B	42" GRAB BAR
10.2.09C	24"X60" FRAMED MIRROR
10.2.15	ELECTRIC HAND DRYER
10.2.18	FLOOR MOUNTED TOILET PARTITION. REFER TO SHEET A0.03 AND A4 SHEETS FOR DIMENSIONS
10.4.02	WALL MOUNTED FIRE EXTINGUISHER. INSTALL IN ALL MECHANICAL ROOMS, ELECTRICAL ROOMS.
11.4.02	ICE MAKER
22.4.01	MOP SINK, MOP RACK & 4'-0" HIGH FRP PANEL WAINSCOT ON WALL ADJACENT TO SINK.
22.4.03	WALL MOUNTED LAVATORY
22.4.05	FLOOR MOUNTED TOILET
22.4.06	WALL MOUNTED URINAL
22.4.12	WASH SINK

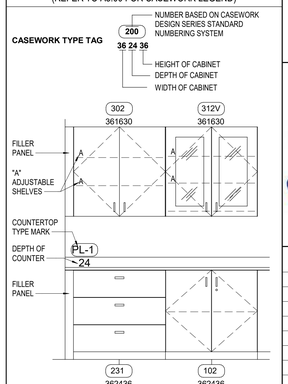
CASEWORK SCHEDULE

Type Mark	Width	Depth	Height
100	3' - 0"	1' - 6"	2' - 10"
100A	3' - 0"	2' - 0"	2' - 10"
230	1' - 6"	2' - 0"	2' - 6"
301A	1' - 10"	1' - 4"	2' - 6"
302A	3' - 0"	1' - 4"	2' - 6"
402E	3' - 0"	1' - 6"	7' - 0"

EQUIPMENT SCHEDULE - CFCI

EQ ID	EQ DESCRIPTION
BENCH-1	DUGOUT BENCH
LK12X36	2 TIER LOCKER
MS-01	METAL SHELVING UNIT
MS-03	METAL SHELVING UNIT
STO-1	DUGOUT HELMET/BAT RACKS
STO-2	COACH STATION
WS-01	WALL MOUNTED SHELF

TYPICAL CASEWORK TAGGING ELEVATION
(REFER TO A8.00 FOR CASEWORK LEGEND)



NOTE: FACE TYPE OF CABINET SHALL BE AS IS SHOWN IN ELEVATIONS

LEGEND:

A	= ADJUSTABLE SHELF
FIXED	= FIXED SHELF
B	= LABORATORY BASE CABINET
V	= VALANCE

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PASADENA ISD SOFTBALL COMPLEX

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Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

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Date	10 November 2025
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Approved	Approver

Title

ENLARGED FLOOR PLANS AND ELEVATIONS

Sheet

A4.02

CONSTRUCTION DOCUMENTS

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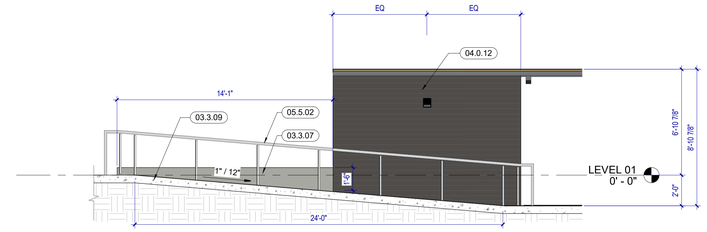
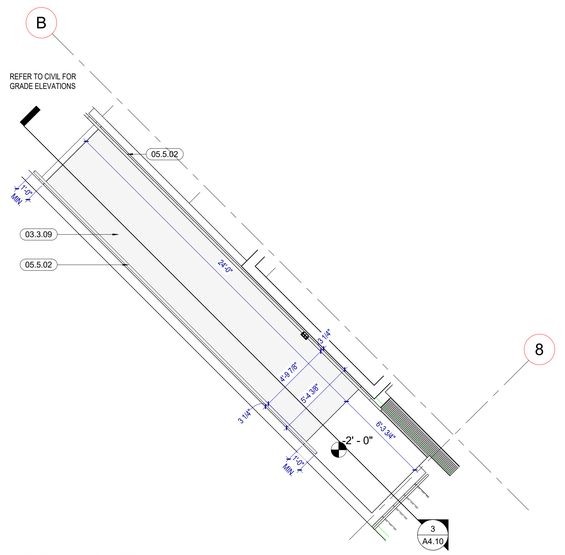
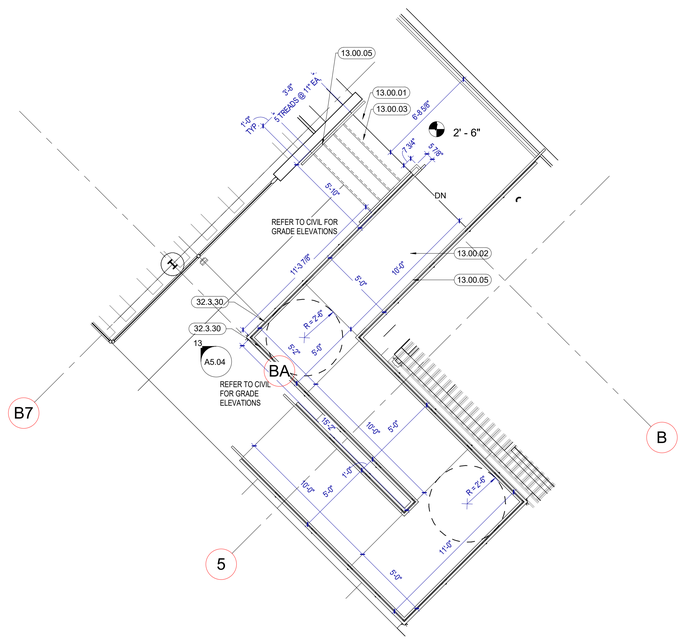


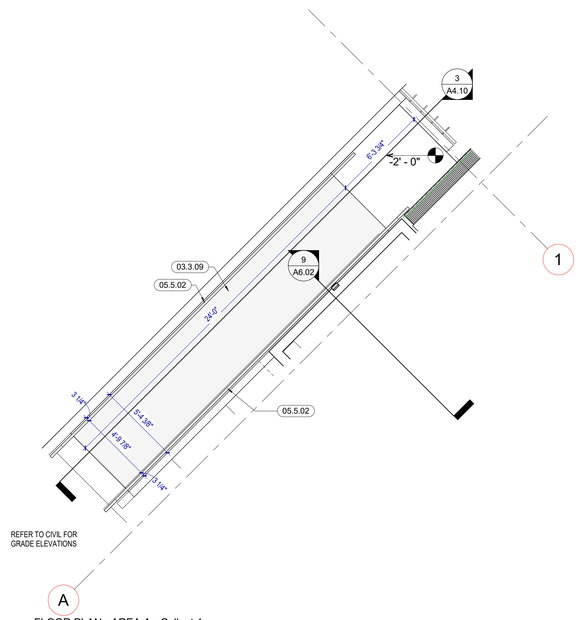
3 DUGOUT RAMP SECTION
1/4" = 1'-0"



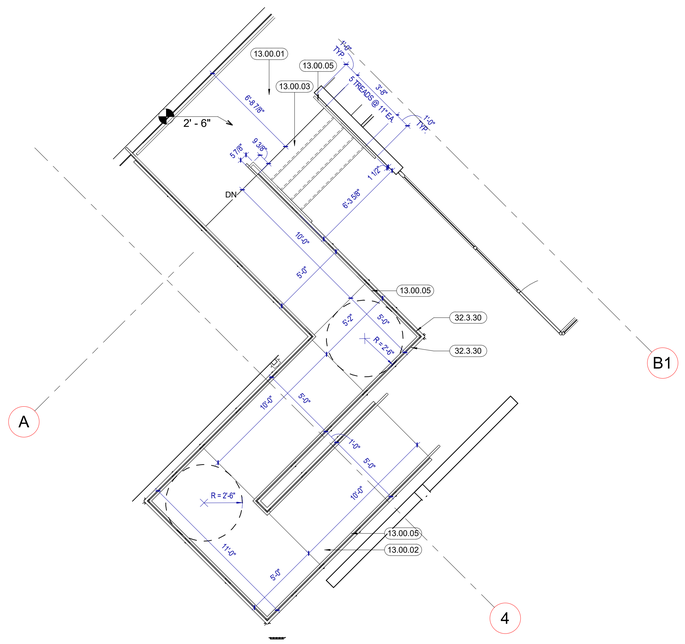
6 SECTION - DUGOUT RAMP
1/4" = 1'-0"



2 GRANDSTAND LEVEL - AREA A - Callout 1
1/4" = 1'-0"



5 FLOOR PLAN - AREA A - Callout 1
1/4" = 1'-0"



1 GRANDSTAND LEVEL - AREA A - Callout 2
1/4" = 1'-0"

PROVIDE CHAIN LINK SKIRT BELOW BLEACHER RAMPS & STAIR SIDES

GENERAL NOTES

1. ALL EXPOSED STEEL AND METAL STAIR COMPONENTS TO BE PAINTED.

2. GRIND ALL WELDS SMOOTH BEFORE PAINTING.

3. REFER TO "SCH" SERIES SHEETS FOR ROOM FINISH SCHEDULE AND FINISH/COLOR SCHEDULE LEGEND.

4. REFER TO SHEET A0.03 FOR TYPICAL MOUNTING AND ACCESSIBILITY REQUIREMENTS.

5. REFER TO CASEWORK, EQUIPMENT, AND FLOOR PATTERN SHEETS FOR FLOORING TRANSITIONS AND FLOOR PATTERNS.

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.3.07	CAST-IN-PLACE CONCRETE WALL, SEE STRUCTURAL DRAWINGS
03.3.09	CAST-IN-PLACE CONCRETE RAMP, SEE STRUCTURAL DRAWINGS
04.0.12	STRUCTURAL BRICK: BR-3.
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
13.00.01	ALUMINUM BLEACHERS
13.00.02	ALUMINUM RAMP BY BLEACHER MANUFACTURER
13.00.03	ALUMINUM STAIR BY BLEACHER MANUFACTURER
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
32.3.30	VINYL COATED CHAINLINK FENCE

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PASADENA ISD SOFTBALL COMPLEX

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Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

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Sheet Information	
Date	10 November 2025
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Checked	Checker
Approved	Approver

Title

ENLARGED STAIR AND RAMP PLANS AND SECTIONS

Sheet

A4.10

CONSTRUCTION DOCUMENTS

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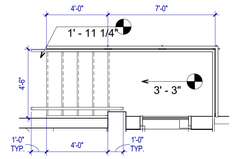
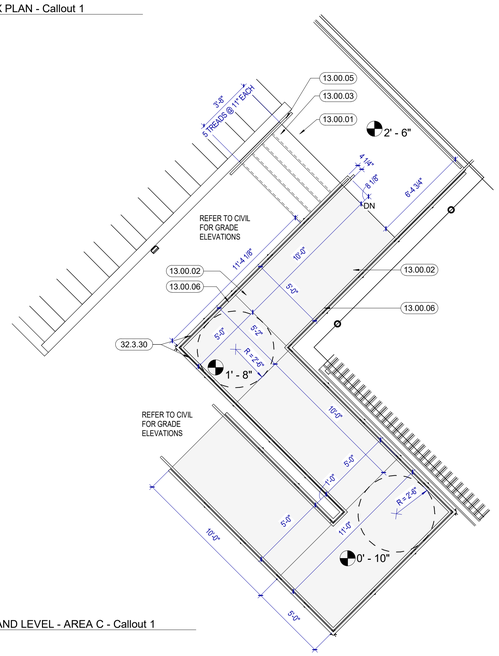
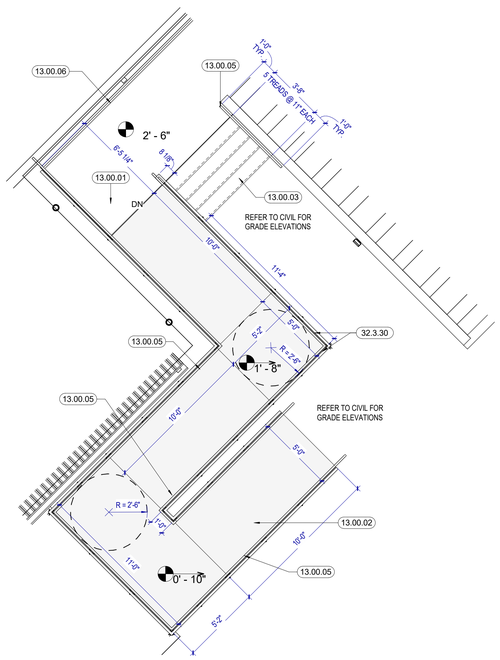


5 PRESSBOX PLAN - Callout 1
1/4" = 1'-0"



18 GRANDSTAND LEVEL - AREA C - Callout 1
1/4" = 1'-0"



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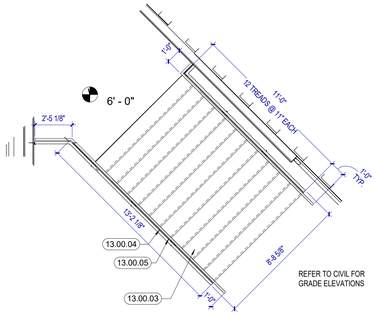
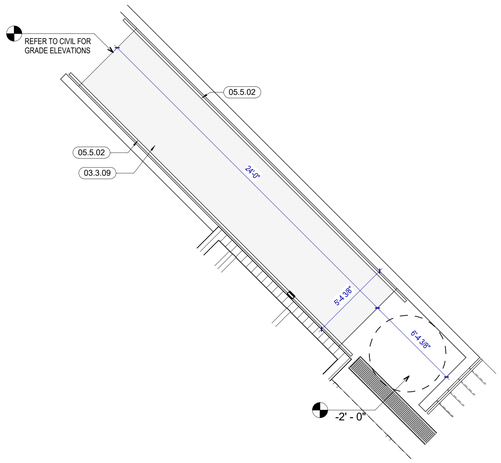
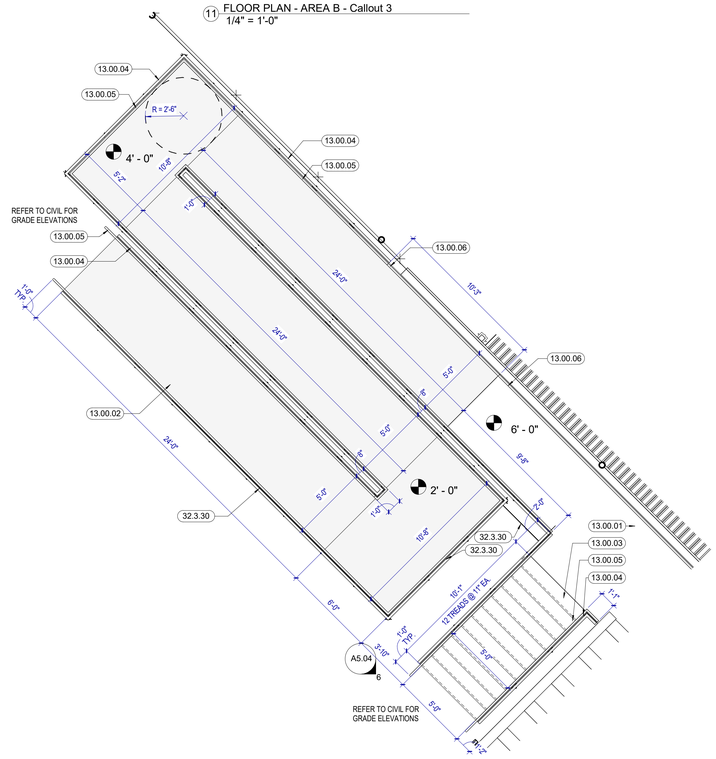
1/4" = 1'-0"



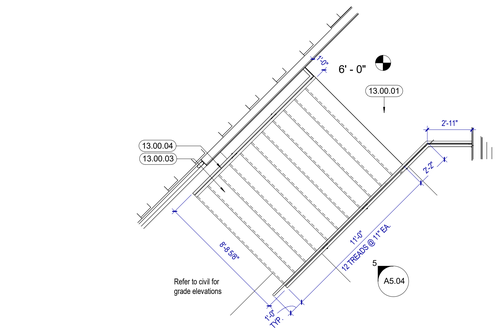
12 GRANDSTAND LEVEL - AREA B - Callout 2
1/4" = 1'-0"



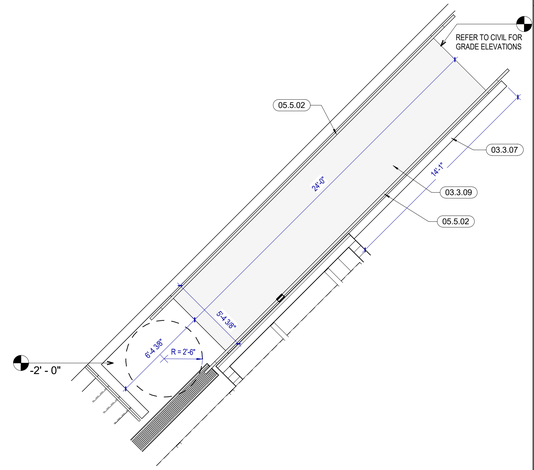
11 FLOOR PLAN - AREA B - Callout 3
1/4" = 1'-0"



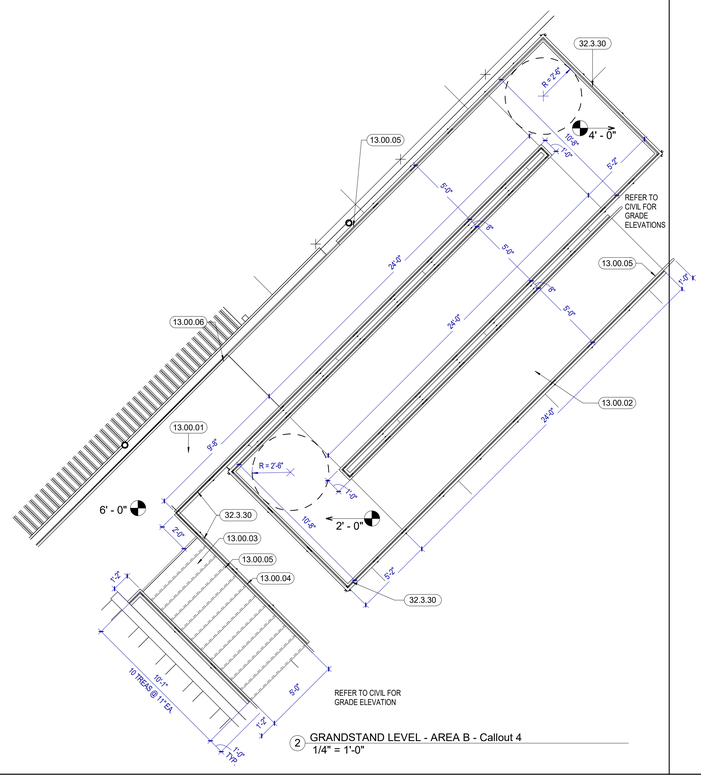
1 GRANDSTAND LEVEL - AREA B - Callout 3
1/4" = 1'-0"



4 GRANDSTAND LEVEL - AREA B - Callout 1
1/4" = 1'-0"



3 FLOOR PLAN - AREA B - Callout 5
1/4" = 1'-0"



2 GRANDSTAND LEVEL - AREA B - Callout 4
1/4" = 1'-0"

PROVIDE CHAIN LINK SKIRT BELOW BLEACHER RAMPS & STAIR SIDES

GENERAL NOTES

1. ALL EXPOSED STEEL AND METAL STAIR COMPONENTS TO BE PAINTED.
2. GRIND ALL WELDS SMOOTH BEFORE PAINTING.
3. REFER TO "SCH" SERIES SHEETS FOR ROOM FINISH SCHEDULE AND FINISH/COLOR SCHEDULE LEGEND.
4. REFER TO SHEET A0.03 FOR TYPICAL MOUNTING AND ACCESSIBILITY REQUIREMENTS.
5. REFER TO CASEWORK, EQUIPMENT, AND FLOOR PATTERN SHEETS FOR FLOORING TRANSITIONS AND FLOOR PATTERNS.

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.3.07	CAST-IN-PLACE CONCRETE WALL, SEE STRUCTURAL DRAWINGS
03.3.09	CAST-IN-PLACE CONCRETE RAMP, SEE STRUCTURAL DRAWINGS
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
13.00.01	ALUMINUM BLEACHERS
13.00.02	ALUMINUM RAMP BY BLEACHER MANUFACTURER
13.00.03	ALUMINUM STAIR BY BLEACHER MANUFACTURER
13.00.04	ALUMINUM RAILING WITH CHAINLINK INFILL PANEL BY BLEACHER MANUFACTURER
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
13.00.06	ALUMINUM RAILING BY BLEACHER MANUFACTURER
32.3.30	VINYL COATED CHAINLINK FENCE

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ENLARGED STAIR AND RAMP PLANS AND SECTIONS

Sheet

A4.11

CONSTRUCTION DOCUMENTS

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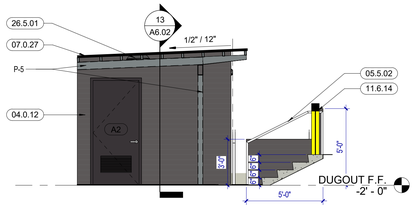
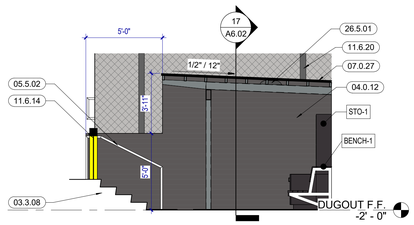
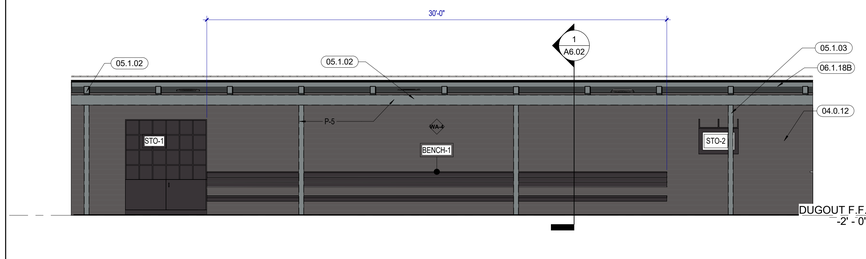


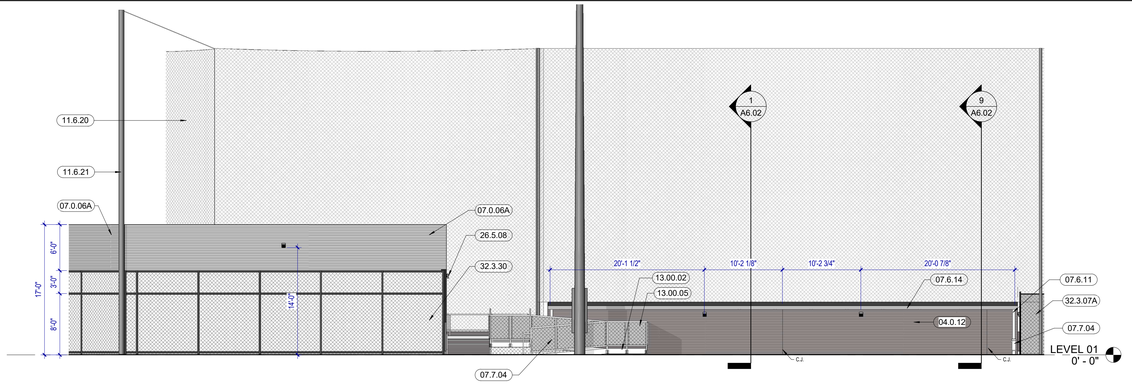
9 Elevation- DUGOUT @ STORAGE
1/4" = 1'-0"



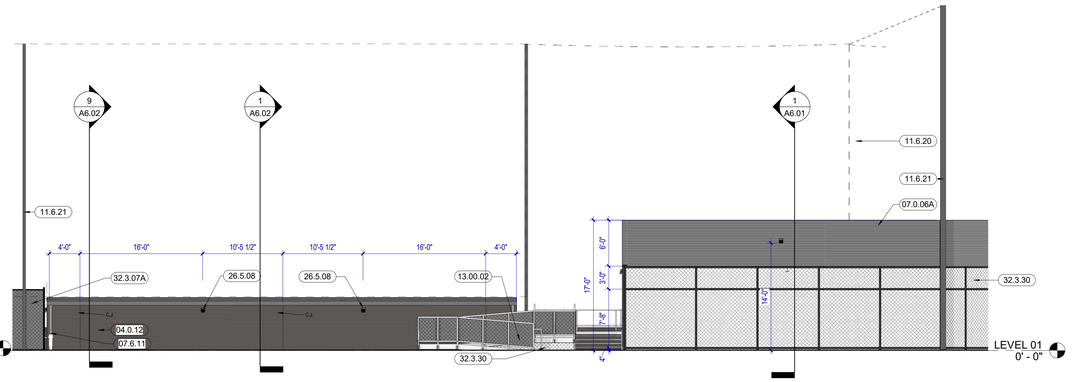
8 Elevation- DUGOUT @ BLEACHERS
1/4" = 1'-0"



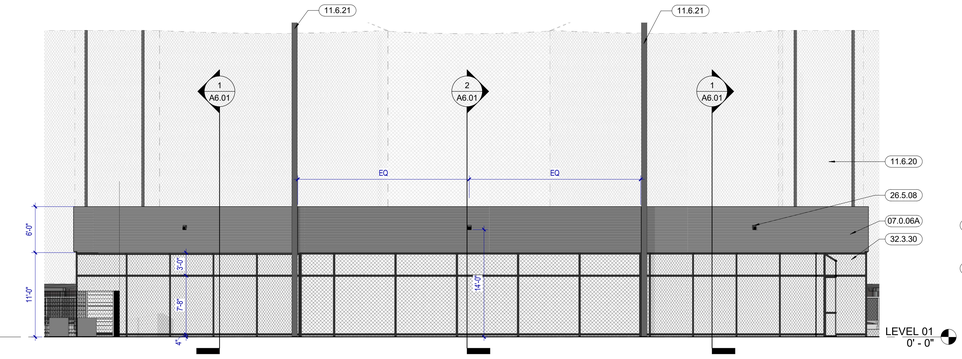
7 ELEVATION - DUGOUT
1/4" = 1'-0"



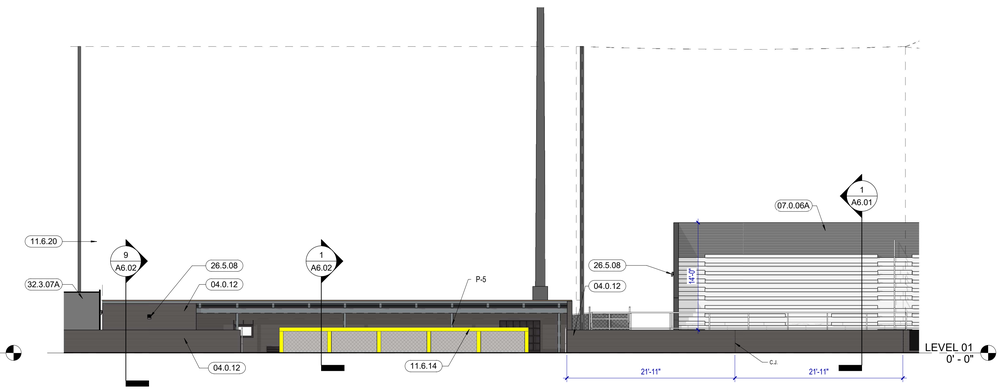
4 FIRST BASE BACK BLEACHER ELEVATION
1/8" = 1'-0"



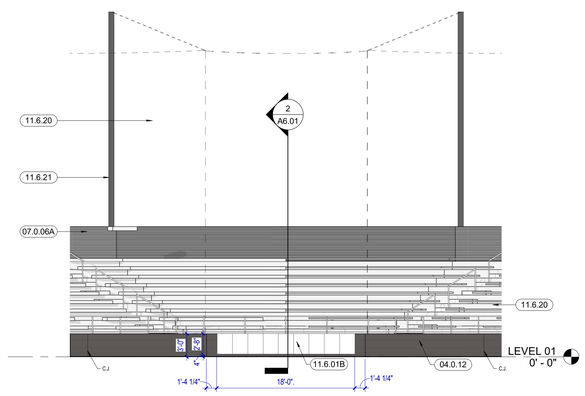
3 THIRD BASE BLEACHER BACK ELEVATION
1/8" = 1'-0"



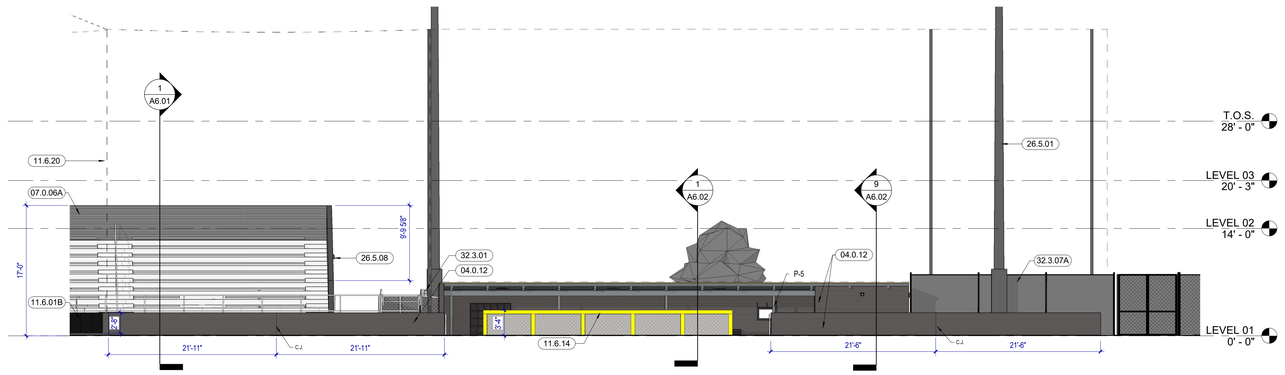
6 HOME BASE BLEACHER BACK ELEVATION
1/8" = 1'-0"



2 FIRST BASE BLEACHER ELEVATION FROM FIELD
1/8" = 1'-0"



5 HOME BLEACHER ELEVATION FROM FIELD
1/8" = 1'-0"



1 THIRD BASE BLEACHER ELEVATION FROM FIELD
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES
2. REFER TO SHEET A9.11 FOR WINDOW TYPES
3. REFER TO FINISH/COLOR SCHEDULE LEGEND FOR EXTERIOR MATERIALS AND FINISHES.
4. REFER TO A3 SERIES SHEETS AND REFLECTED CEILING PLANS FOR LIGHT FIXTURE LOCATIONS AND TYPES

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.3.08	CAST-IN-PLACE CONCRETE STEPS, SEE STRUCTURAL DRAWINGS
04.0.12	STRUCTURAL BRICK: BR-3.
05.1.02	STRUCTURAL STEEL BEAM. SEE STRUCTURAL DRAWINGS
05.1.03	STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
06.1.18B	2X4 FRAMING @ 16" O.C.
07.0.06A	FORMED METAL WALL PANEL: MT-4
07.0.27	RA-3 PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON PLYWOOD DECK.
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
07.7.04	CAST-IRON DOWSPOUT BOOT CONNECTED TO STORM LINE. SEE CIVIL. TYPICAL AT ALL DOWNSPOUT LOCATIONS.
11.6.01B	32" HIGH WALL PROTECTION PAD
11.6.14	SPADDED SQUARE GUARDRAIL WITH SAFETY NET & WINDSCREEN INFILL.
11.6.20	40'-0" SAFETY NET.
11.6.21	SAFETY NET POLE & POLE FOUNDATION BY SAFETY NET INSTALLER.
13.00.02	ALUMINUM RAMP BY BLEACHER MANUFACTURER
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.3.01	6'-0" HIGH WELDED WIREMESH FENCE
32.3.07A	8'-0" HIGH VINYL COATED CHAINLINK FENCE WITH WINDSCREEN.
32.3.30	VINYL COATED CHAINLINK FENCE

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PASADENA ISD SOFTBALL COMPLEX

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Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

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Sheet Information	
Date	10 November 2025
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Approved	Approver

Title

EXTERIOR ELEVATIONS

Sheet

A5.01

CONSTRUCTION DOCUMENTS

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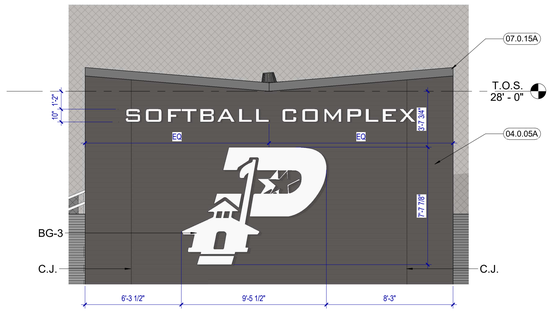
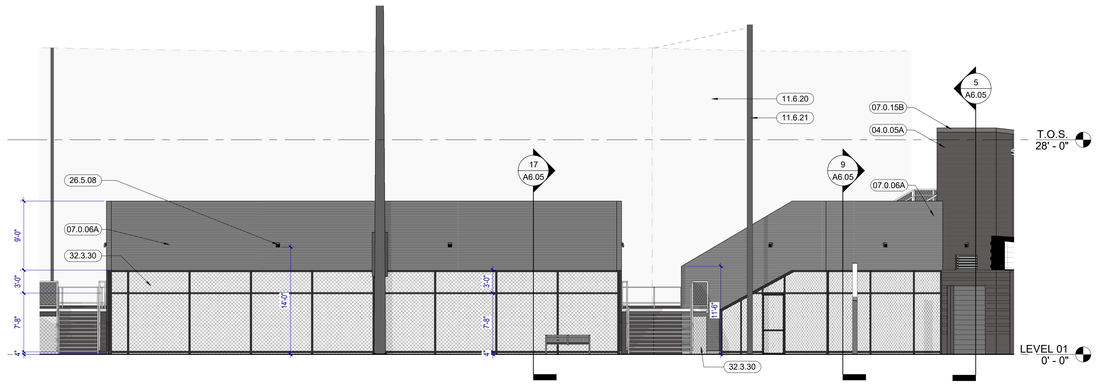
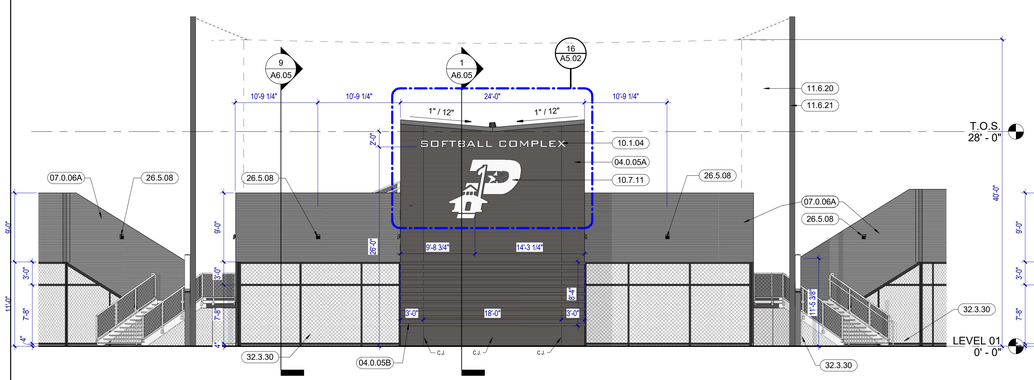


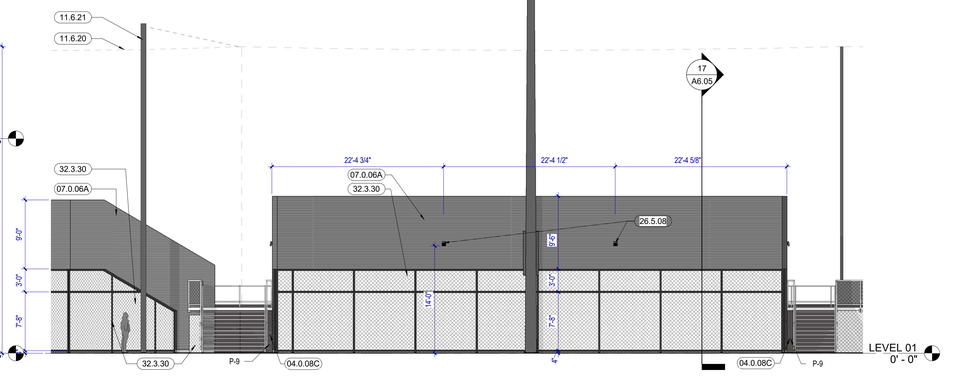
16 FIELD B - GRANDSTAND TOWER
1/4" = 1'-0"



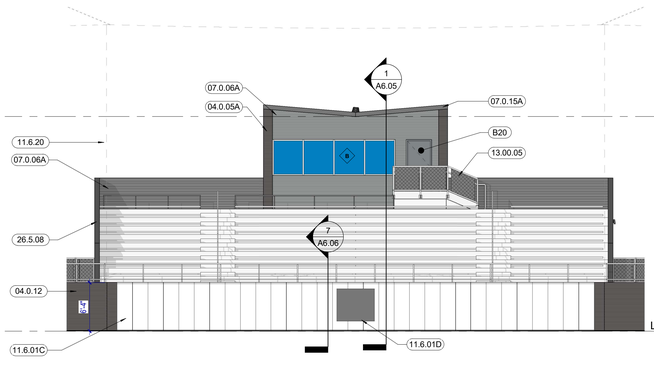
4 FIELD B - GRANDSTAND WEST ELEVATION
1/8" = 1'-0"



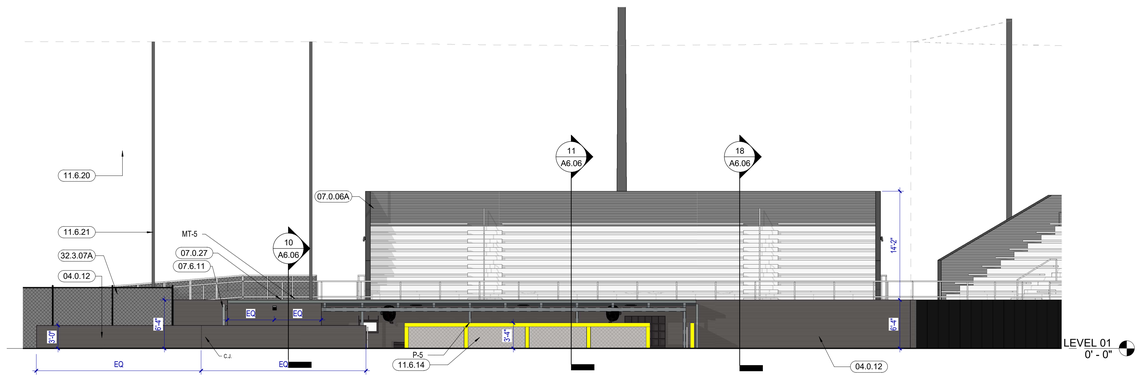
15 FIELD B - GRANDSTAND SOUTH ELEVATION
1/8" = 1'-0"



3 FIELD B - GRANDSTAND EAST ELEVATION
1/8" = 1'-0"

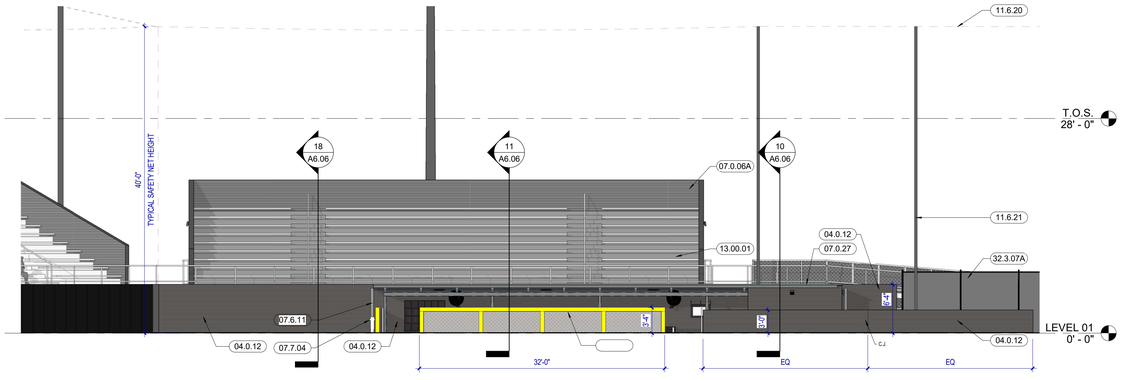


14 FIELD B - GRANSTAND TOWER SIDE
1/8" = 1'-0"



2 FIELD B - EAST ELEVATION
1/8" = 1'-0"

13 FIELD B - NORTH ELEVATION
1/8" = 1'-0"



1 FIELD B - WEST ELEVATION
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES
2. REFER TO SHEET A9.11 FOR WINDOW TYPES
3. REFER TO FINISH/COLOR SCHEDULE LEGEND FOR EXTERIOR MATERIALS AND FINISHES.
4. REFER TO A3 SERIES SHEETS AND REFLECTED CEILING PLANS FOR LIGHT FIXTURE LOCATIONS AND TYPES

KEYED NOTES

KEYED NOTE	DESCRIPTION
04.0.05A	FACE BRICK VENEER: BR-1 TYPICAL U.N.O.
04.0.05B	PROTRUDED BRICK: BR-2.
04.0.08C	6" CMU
04.0.12	STRUCTURAL BRICK: BR-3.
07.0.06A	FORMED METAL WALL PANEL: MT-4
07.0.15A	PRE-FINISHED METAL FASCIA: MT-1
07.0.15B	PRE-FINISHED METAL FASCIA: MT-1A
07.0.27	RA-3 PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON PLYWOOD DECK.
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.7.04	CAST-IRON DOWSPOUT BOOT CONNECTED TO STORM LINE. SEE CIVIL. TYPICAL AT ALL DOWNSPOUT LOCATIONS.
10.1.04	8" CAST ALUMINUM LETTERS
10.7.11	LIT ACRYLIC SIGN
11.6.01C	WALL PROTECTION PAD
11.6.01D	WALL PROTECTION PAAD WITH LOGO GRAPHIC. LOGO ELECTRONIC FILE PROVIDED UPON REQUEST.
11.6.14	SPADDED SQUARE GUARDRAIL WITH SAFETY NET & WINDSCREEN INFILL.
11.6.20	40'-0" SAFETY NET.
11.6.21	SAFETY NET POLE & POLE FOUNDATION BY SAFETY NET INSTALLER.
13.00.01	ALUMINUM BLEACHERS
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.3.07A	8'-0" HIGH VINYL COATED CHAINLINK FENCE WITH WINDSCREEN.
32.3.30	VINYL COATED CHAINLINK FENCE

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PASADENA ISD SOFTBALL COMPLEX

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Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL STATE OF TEXAS 10153
14 February 2025

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Approved	Approver

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EXTERIOR ELEVATIONS

Sheet

A5.02

CONSTRUCTION DOCUMENTS

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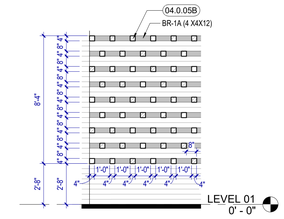
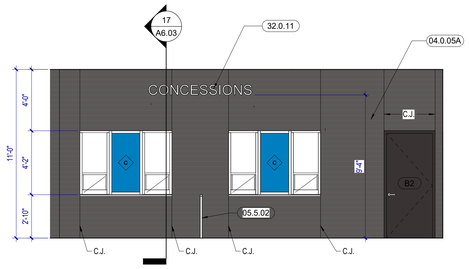
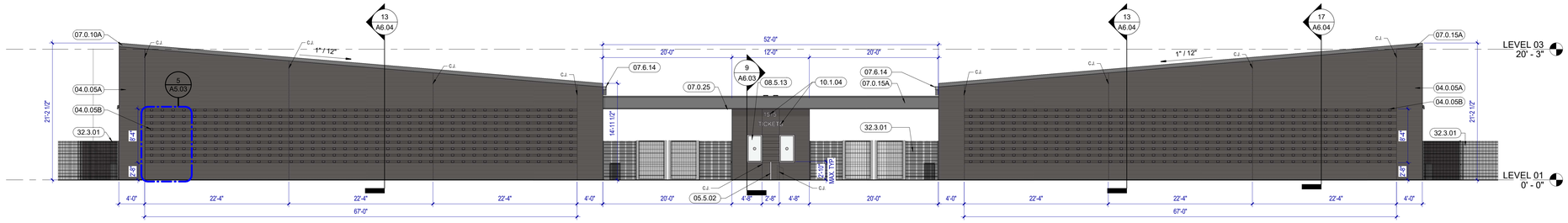


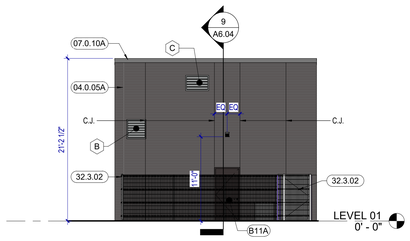
5 BRICK PATTERN SOUTH ELEVATION
1/4" = 1'-0"



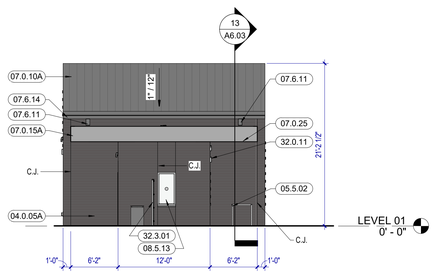
4 ENLARGED NORTH ELEVATION - ENTRANCE BUILDING
1/4" = 1'-0"



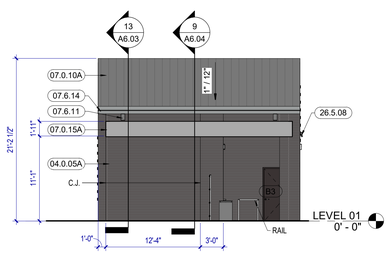
3 SOUTH ELEVATION
1/8" = 1'-0"



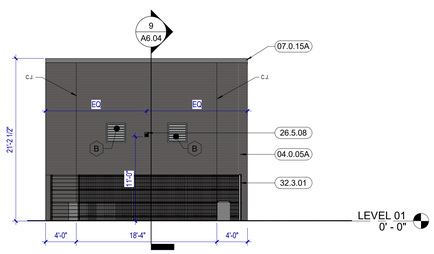
18 EAST ELEVATION - ENTRANCE BUILDING
1/8" = 1'-0"



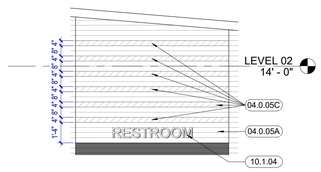
14 TICKET BOOTH - EAST ELEVATION
1/8" = 1'-0"



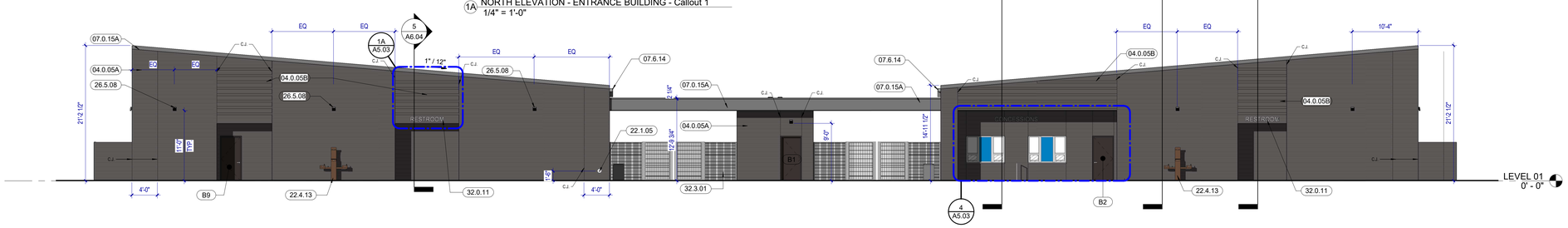
6 CONCESSION - EXTERIOR EAST ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION - ENTRANCE BUILDING
1/8" = 1'-0"



1A NORTH ELEVATION - ENTRANCE BUILDING - Callout 1
1/4" = 1'-0"



1 NORTH ELEVATION - ENTRANCE BUILDING
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET A9.10 FOR DOOR AND FRAME TYPES
2. REFER TO SHEET A9.11 FOR WINDOW TYPES
3. REFER TO FINISH/COLOR SCHEDULE LEGEND FOR EXTERIOR MATERIALS AND FINISHES.
4. REFER TO A3 SERIES SHEETS AND REFLECTED CEILING PLANS FOR LIGHT FIXTURE LOCATIONS AND TYPES

KEYED NOTES

KEYED NOTE	DESCRIPTION
04.0.05A	FACE BRICK VENEER: BR-1 TYPICAL U.N.O.
04.0.05B	PROTRUDED BRICK: BR-2.
04.0.05C	PROTRUDED BRICK COURSE.
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
07.0.10A	RA-2A - PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE OVER COVER BOARD OVER 4 1/2" MIN. RIGID INSULATION ON METAL DECK.
07.0.15A	PRE-FINISHED METAL FASCIA: MT-1
07.0.25	PREFINISHED METAL PANEL SOFFIT: MT-2
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
08.5.13	TRANSACTION WINDOW
10.1.04	8" CAST ALUMINUM LETTERS
22.1.05	ROOF OVERFLOW DRAIN OUTLET
22.4.13	DRINKING FOUNTAIN, SEE PLUMBING DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.11	PAINTED STRIPES AND LETTERS
32.3.01	6'-0" HIGH WELDED WIREMESH FENCE
32.3.02	6'-0" HIGH WELDED WIREMESH FENCE GATE

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14 February 2025

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Approved	Approver

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EXTERIOR ELEVATIONS

Sheet

A5.03

CONSTRUCTION DOCUMENTS

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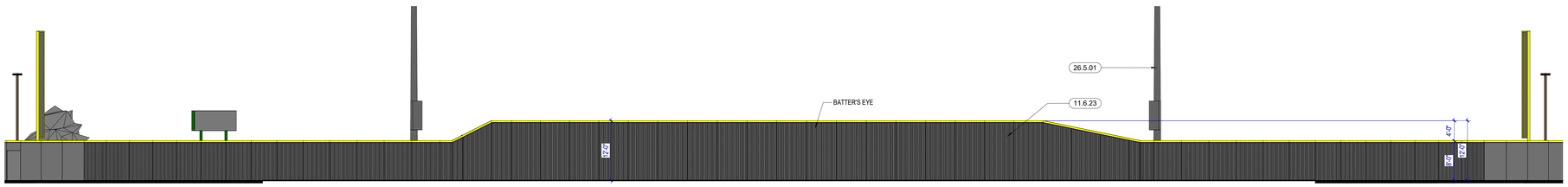
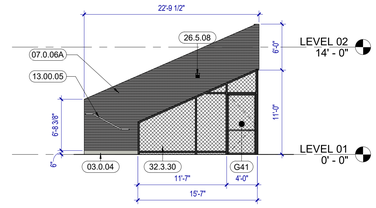
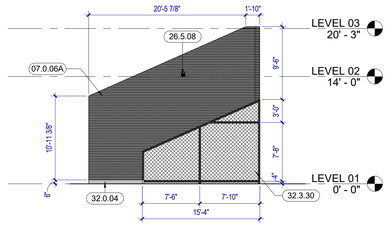


4 TYPICAL BACKFIELD WALL ELEVATION
3/32" = 1'-0"

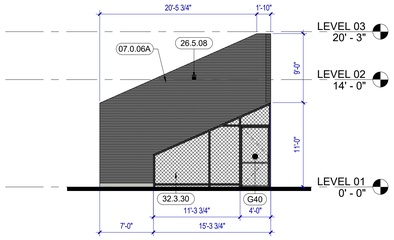
KEYED NOTES	
KEYED NOTE	DESCRIPTION
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
04.0.05A	FACE BRICK VENEER: BR-1 TYPICAL U.N.O.
04.0.05B	PROTRUDED BRICK: BR-2.
07.0.06A	FORMED METAL WALL PANEL: MT-4
10.1.04	8" CAST ALUMINUM LETTERS
11.6.23	ATHLETIC R PANEL FIELD FENCE.
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
26.5.01	SCHEDULED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.04	CONCRETE CURB, SEE CIVIL DRAWINGS.
32.3.30	VINYL COATED CHAINLINK FENCE



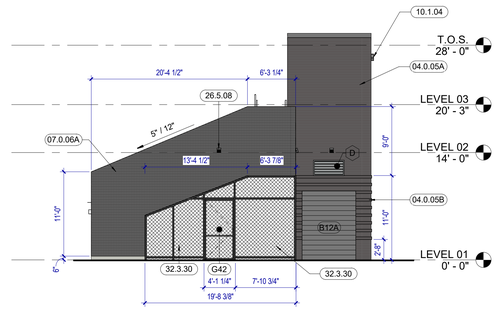
7 FIELD A/C - SIDE ELEVATION
1/8" = 1'-0"



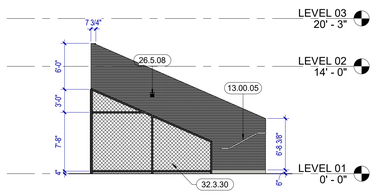
3 FIELD B EAST BLEACHERS WEST ELEVATION
1/8" = 1'-0"



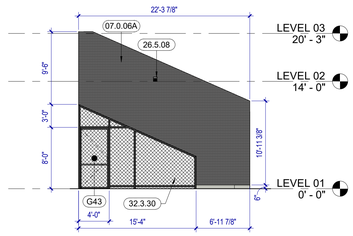
6 FIELD B WEST BLEACHERS WEST ELEVATION
1/8" = 1'-0"



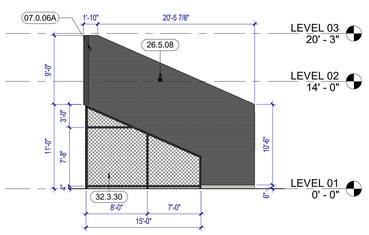
2 FIELD B MIDDLE BLEACHERS WEST ELEVATION
1/8" = 1'-0"



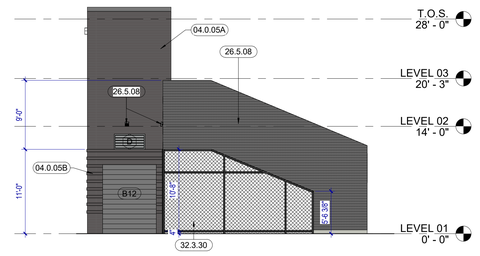
13 FIELD A/C - SIDE ELEVATION 02
1/8" = 1'-0"



9 FIELD B EAST BLEACHERS EAST ELEVATION
1/8" = 1'-0"



5 FIELD B WEST BLEACHERS EAST ELEVATION
1/8" = 1'-0"



1 FIELD B MIDDLE BLEACHERS EAST ELEVATION
1/8" = 1'-0"

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NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

EXTERIOR ELEVATIONS

Sheet

A5.04

CONSTRUCTION DOCUMENTS

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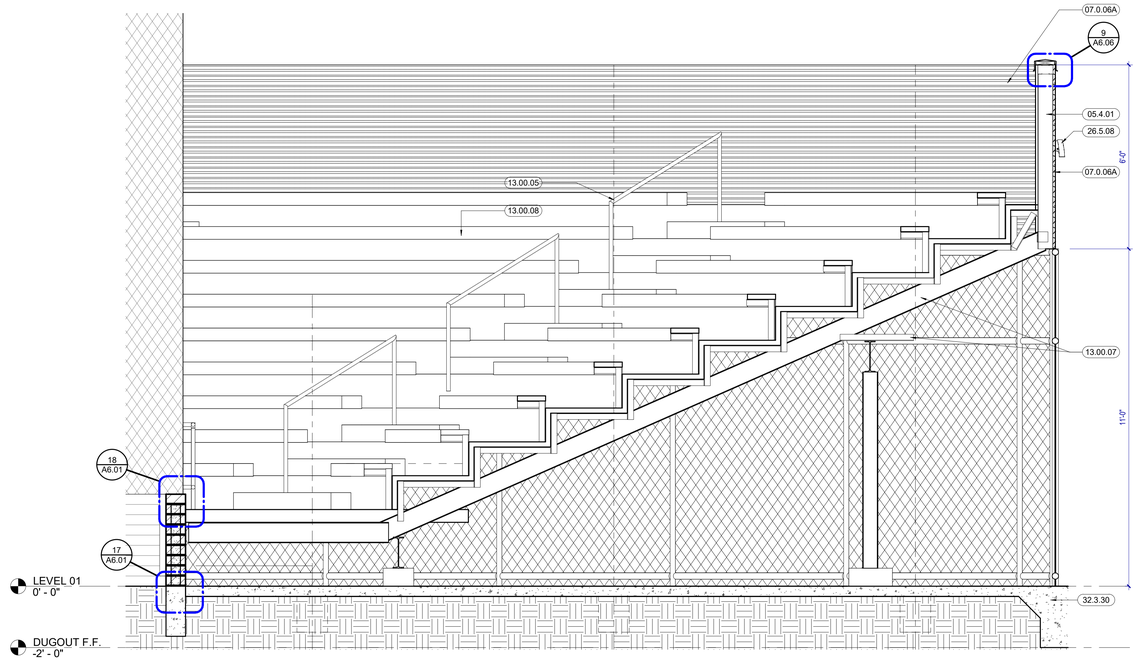
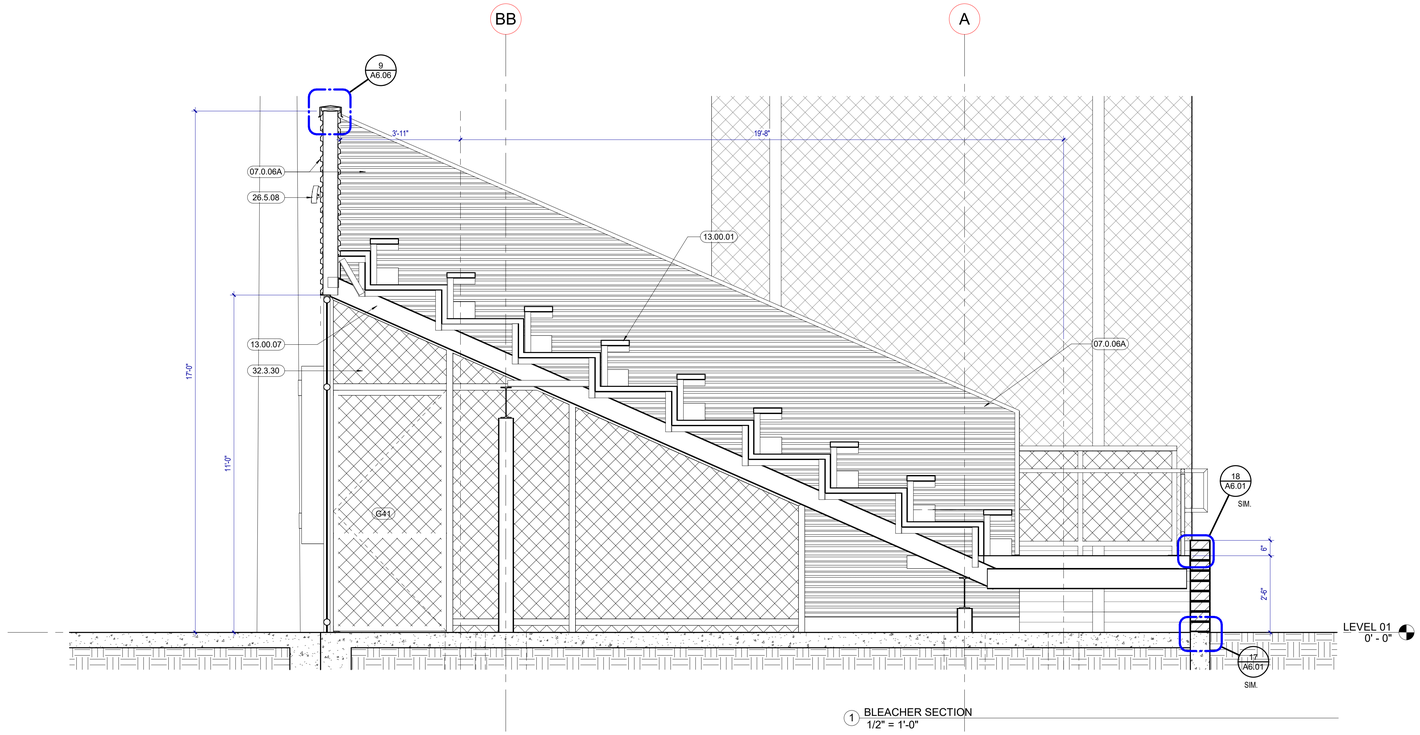
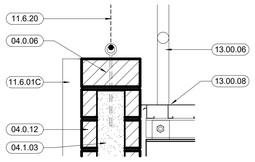


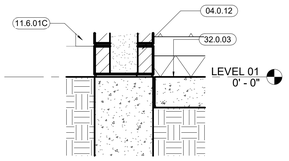
2 BLEACHER SECTION
1/2" = 1'-0"



1 BLEACHER SECTION
1/2" = 1'-0"



18 BACKSTOP WALL DETAIL
1 1/2" = 1'-0"



17 BACKSTOP WALL FOUNDATION
1 1/2" = 1'-0"

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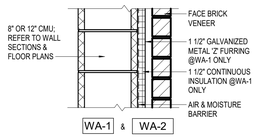
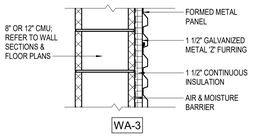
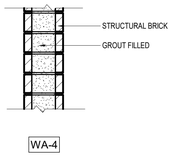
KEYED NOTES

KEYED NOTE	DESCRIPTION
04.0.06	SOLID BRICK. SEE ELEVATIONS FOR COLOR AND PATTERN.
04.0.12	STRUCTURAL BRICK: BR-3.
04.1.03	GROUT CORES SOLID
05.4.01	6" C-SHAPED METAL STUD @ 16" O.C.
07.0.06A	FORMED METAL WALL PANEL: MT-4
11.6.01C	WALL PROTECTION PAD
11.6.20	40'-0" SAFETY NET.
13.00.01	ALUMINUM BLEACHERS
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
13.00.06	ALUMINUM RAILING BY BLEACHER MANUFACTURER
13.00.07	BLEACHER STEEL FRAMING BY BLEACHER MANUFACTURER
13.00.08	ALUMINUM BLEACHER DECKING.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
32.3.30	VINYL COATED CHAINLINK FENCE

EXTERIOR WALL ASSEMBLIES







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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS

14 February 2025

Revision Schedule

NO.	ISSUE	DATE

	Sheet Information
Date	10 November 2025
Job Number	23-012
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Approved	Approver

Title

WALL SECTIONS AND DETAILS

Sheet

A6.01

CONSTRUCTION DOCUMENTS

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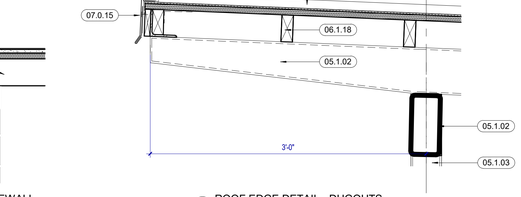
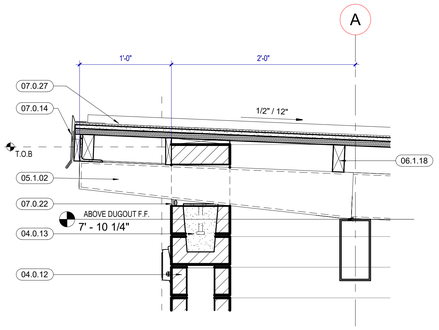
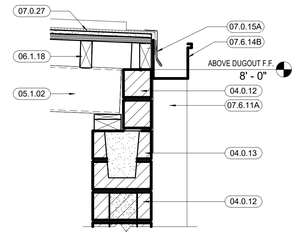


8 ROOF EDGE DETAIL - DUGOUT SIDEWALL
1 1/2" = 1'-0"

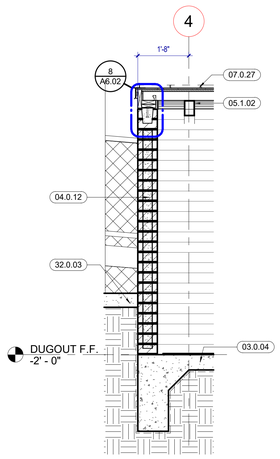
4 ROOF EDGE DETAIL - DUGOUTS
1 1/2" = 1'-0"



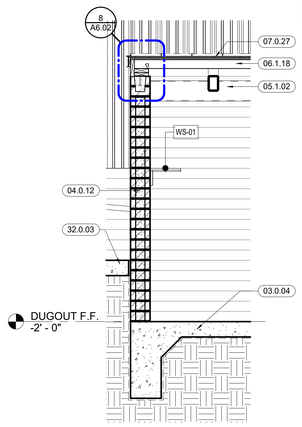
7 ROOF EDGE - DUGOUT STORAGE
1 1/2" = 1'-0"



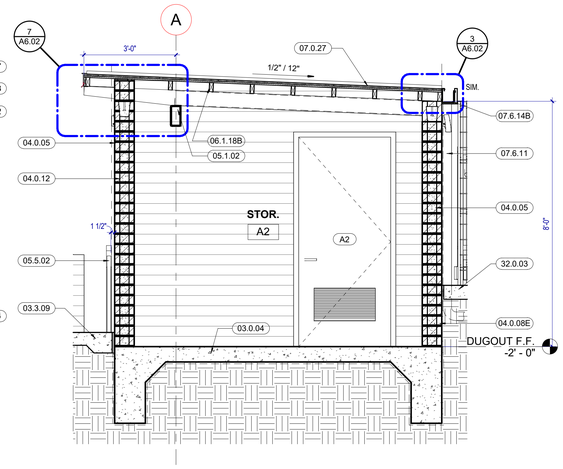
3 ROOF EDGE DETAIL - DUGOUT
1 1/2" = 1'-0"



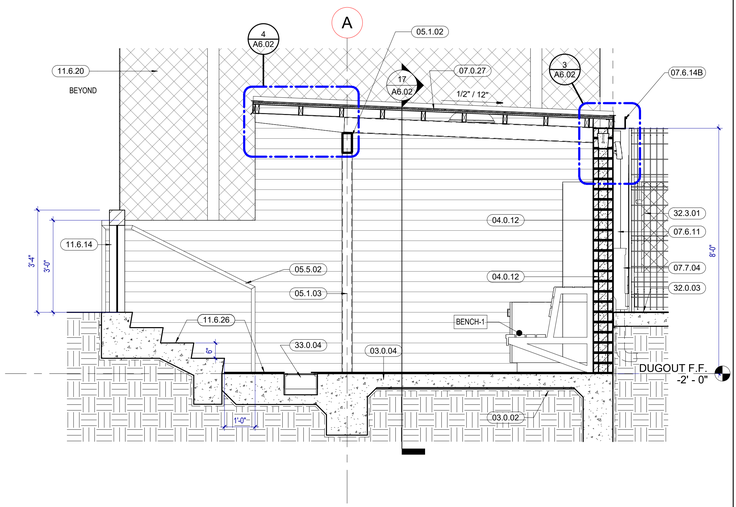
17 WALL SECTION
1/2" = 1'-0"



13 WALL SECTION
1/2" = 1'-0"



9 DUGOUT SECTION
1/2" = 1'-0"

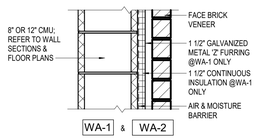


1 DUGOUT SECTION
1/2" = 1'-0"

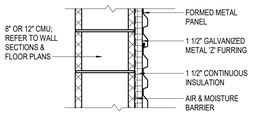
KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.02	VAPOR BARRIER
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
03.3.09	CAST-IN-PLACE CONCRETE RAMP, SEE STRUCTURAL DRAWINGS
04.0.05	FACE BRICK VENEER
04.0.08E	12" CMU
04.0.12	STRUCTURAL BRICK: BR-3.
04.0.13	STRUCTURAL BRICK BOND BEAM.
05.1.02	STRUCTURAL STEEL BEAM. SEE STRUCTURAL DRAWINGS
05.1.03	STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
06.0.02	TREATED 2X WOOD BLOCKING
06.1.12A	TREATED 1X4
06.1.18	2X4 FRAMING
06.1.18B	2X4 FRAMING @ 16" O.C.
07.0.14	PRE-FINISHED METAL ROOF EDGE W/ CONTINUOUS CLEAT
07.0.15	PRE-FINISHED METAL FASCIA
07.0.15A	PRE-FINISHED METAL FASCIA: MT-1
07.0.22	CONTINUOUS SEALANT
07.0.27	RA-3 PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON PLYWOOD DECK.
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.11A	PRE-FINISHED METAL DOWNSPOUT, MT-3A
07.6.14B	PRE-FINISHED METAL GUTTER (5"X5")
07.7.04	CAST-IRON DOWSPOUT BOOT CONNECTED TO STORM LINE. SEE CIVIL. TYPICAL AT ALL DOWNSPOUT LOCATIONS.
11.6.14	SPADDED SQUARE GUARDRAIL WITH SAFETY NET & WINDSCREEN INFILL.
11.6.20	40'-0" SAFETY NET.
11.6.26	ATHLETIC RUBBER MAT.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
32.3.01	6'-0" HIGH WELDED WIREMESH FENCE
33.0.04	LINEAR DRAIN,SEE CIVIL DRAWINGS

EXTERIOR WALL ASSEMBLIES



WA-1 & WA-2



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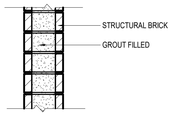

WA-4

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Approved	Approver

Title

WALL SECTIONS AND DETAILS

Sheet

A6.02

CONSTRUCTION DOCUMENTS

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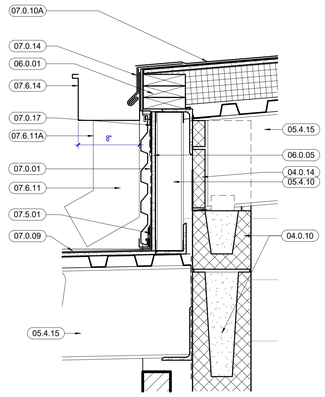
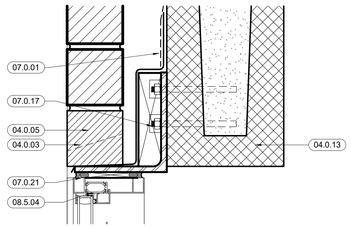
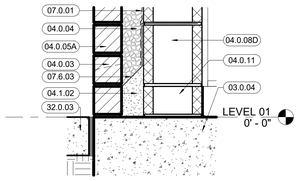
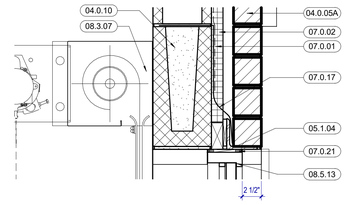


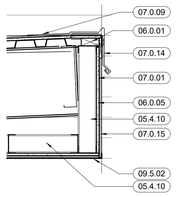
15 WALL DETAIL
1 1/2" = 1'-0"



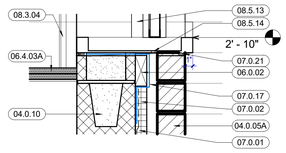




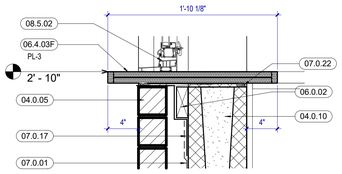
4 SECTION - TB - Callout 3
1 1/2" = 1'-0"



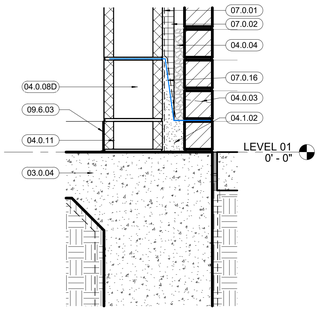
7 ROOF EDGE DETAIL - TB
1" = 1'-0"



3 TRANSACTION WINDOW SILL DETAIL
1 1/2" = 1'-0"



6 OCCD SILL DETAIL AT CONCESSIONS
1 1/2" = 1'-0"



2 SECTION - TB - Callout 1
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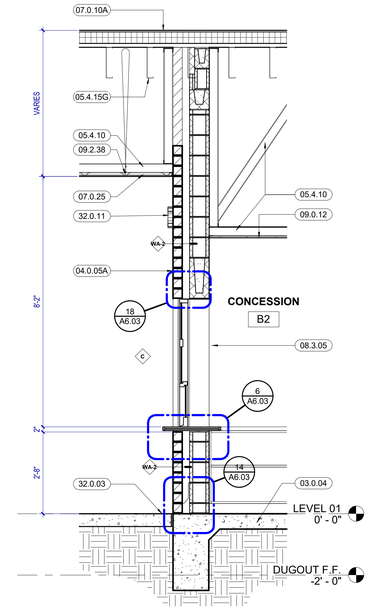
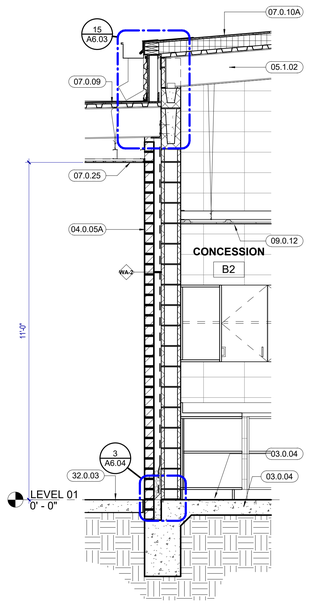
18 HEAD DETAIL AT CONCESSION WINDOW
3" = 1'-0"

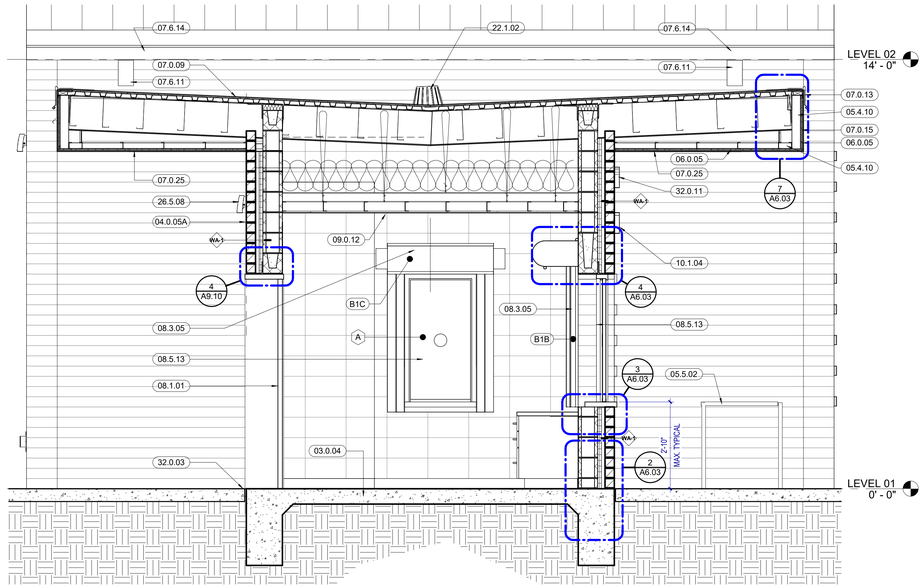


17 WALL SECTION
1/2" = 1'-0"

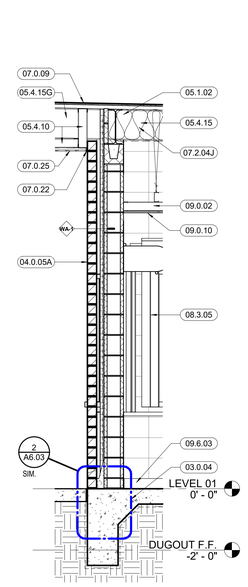
14 WALL BASE DETAIL
1 1/2" = 1'-0"



13 WALL SECTION
1/2" = 1'-0"



9 WALL SECTION
1/2" = 1'-0"

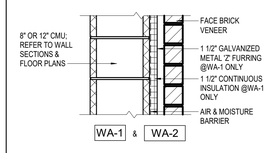


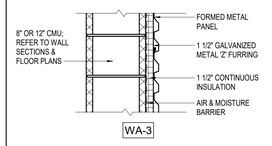
1 WALL SECTION
1/2" = 1'-0"

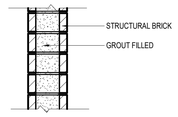
KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
04.0.03	MASONRY WEEP HOLES AT 24" O.C. MAXIMUM
04.0.04	CAVITY DRAINAGE MATERIAL
04.0.05	FACE BRICK VENEER
04.0.05A	FACE BRICK VENEER: BR-1 TYPICAL U.N.O.
04.0.08D	8" CMU
04.0.10	CMU BOND BEAM. SEE STRUCTURAL DRAWINGS
04.0.11	4" CMU STARTER COURSE.
04.0.13	STRUCTURAL BRICK BOND BEAM.
04.0.14	MASONRY SOAP BLOCK.
04.1.02	NON-SHRINK GROUT
05.1.02	STRUCTURAL STEEL BEAM. SEE STRUCTURAL DRAWINGS
05.1.04	STRUCTURAL STEEL ANGLE(S). SEE STRUCTURAL DRAWINGS
05.4.10	3 5/8" C-SHAPED METAL STUD @ 16" O.C.
05.4.15	COLD-FORMED METAL JOIST FRAMING
05.4.15G	12" "C" JOIST
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
06.0.01	2X WOOD BLOCKING
06.0.02	TREATED 2X WOOD BLOCKING
06.0.05	1/2" GYPSUM SHEATHING
06.4.03A	PLASTIC LAMINATE FINISH COUNTERTOP
06.4.03F	STAINLESS STEEL CLADDED PLYWOOD COUNTERTOP.
07.0.01	AIR & MOISTURE BARRIER
07.0.02	1 1/2" CONTINUOUS INSULATION
07.0.09	RA-1 - THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON METAL DECK
07.0.10A	RA-2A - PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE OVER COVER BOARD OVER 4 1/2" MIN. RIGID INSULATION ON METAL DECK.
07.0.13	PRE-FINISHED METAL COPING ON CONTINUOUS CLEAT.
07.0.14	PRE-FINISHED METAL ROOF EDGE W/ CONTINUOUS CLEAT
07.0.15	PRE-FINISHED METAL FASCIA
07.0.16	BASE FLASHING
07.0.17	MEMBRANE FLASHING
07.0.21	CONTINUOUS BACKER ROD AND SEALANT
07.0.22	CONTINUOUS SEALANT
07.0.25	PREFINISHED METAL PANEL SOFFIT: MT-2
07.2.04J	R-38 BATT INSULATION
07.5.01	WRAP FASCIA/PARAPET WITH 20 MIL MEMBRANE FLASHING.
07.6.03	THROUGH WALL & RECEIVER FLASHING
07.6.11	PRE-FINISHED METAL DOWNSPOUT: MT-3. CONNECT TO STORM LINE. SEE CIVIL DRAWINGS.
07.6.11A	PRE-FINISHED METAL DOWNSPOUT, MT-3A
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
08.1.01	HOLLOW METAL DOOR AND FRAME. SEE DOOR SCHEDULE
08.3.04	OVERHEAD COILING DOOR TRACK
08.3.05	OVER COUNTER COILING DOOR
08.3.07	COILING DOOR HOUSING
08.5.02	ALUMINUM WINDOW SILL
08.5.04	ALUMINUM WINDOW HEAD
08.5.13	TRANSACTION WINDOW
08.5.14	TRAY DRAIN HOLE
09.0.02	3 5/8" METAL STUD FRAMING @ 16" O.C.
09.0.10	5/8" GYPSUM BOARD
09.0.12	GYPSUM BOARD CEILING. SEE REFLECTED CEILING PLAN
09.2.38	HAT CHANNEL
09.5.02	LINEAR METAL CEILING/WALL PANELS SYSTEM
09.6.03	SCHEDULED BASE
10.1.04	8" CAST ALUMINUM LETTERS
22.1.02	ROOF DRAIN
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
32.0.11	PAINTED STRIPES AND LETTERS

EXTERIOR WALL ASSEMBLIES







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Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

WALL SECTIONS AND DETAILS

Sheet

A6.03

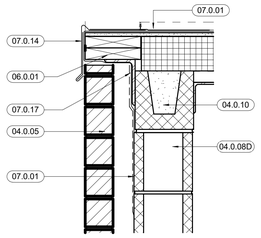
CONSTRUCTION DOCUMENTS

11/10/2025 11:53:33 AM

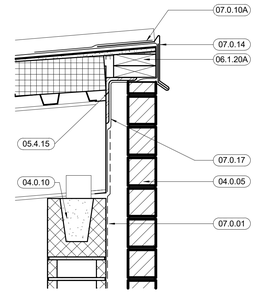
BINDING EDGE

BINDING EDGE

C:\Users\bayardoserival\Documents\PSD - Softball Complex - R22\23_bayardo.serival@cre8houston.com.rvt



8 ROOF EDGE DETAIL
1 1/2" = 1'-0"



4 ROOF EDGE DETAIL
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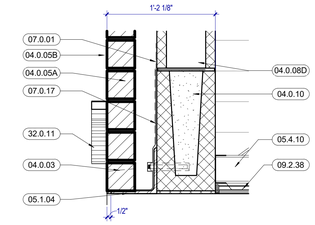
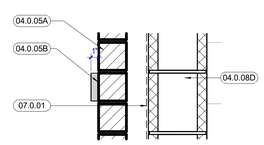


11 WALL DETAIL
1 1/2" = 1'-0"



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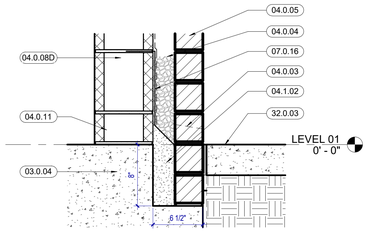


3 WALL DETAIL
1 1/2" = 1'-0"

17 WALL SECTION
1/2" = 1'-0"

13 ROOF EDGE DETAIL
1/2" = 1'-0"

9 WALL SECTION
1/2" = 1'-0"

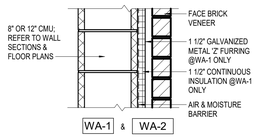
5 WALL SECTION
1/2" = 1'-0"

1 WALL SECTION
1/2" = 1'-0"

KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.02	VAPOR BARRIER
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
04.0.03	MASONRY WEEP HOLES AT 24" O.C. MAXIMUM
04.0.04	CAVITY DRAINAGE MATERIAL
04.0.05	FACE BRICK VENEER
04.0.05A	FACE BRICK VENEER: BR-1 TYPICAL U.N.O.
04.0.05B	PROTRUDED BRICK: BR-2.
04.0.08C	6" CMU
04.0.08D	8" CMU
04.0.10	CMU BOND BEAM. SEE STRUCTURAL DRAWINGS
04.0.11	4" CMU STARTER COURSE.
04.1.02	NON-SHRINK GROUT
05.1.04	STRUCTURAL STEEL ANGLE(S). SEE STRUCTURAL DRAWINGS
05.4.10	3 5/8" C-SHAPED METAL STUD @ 16" O.C.
05.4.15	COLD-FORMED METAL JOIST FRAMING
05.4.15G	12" "C" JOIST
06.0.01	2X WOOD BLOCKING
06.1.20A	TREATED 2X6
07.0.01	AIR & MOISTURE BARRIER
07.0.09	RA-1 - THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON METAL DECK
07.0.10A	RA-2A - PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE OVER COVER BOARD OVER 4 1/2" MIN. RIGID INSULATION ON METAL DECK.
07.0.14	PRE-FINISHED METAL ROOF EDGE W/ CONTINUOUS CLEAT
07.0.16	BASE FLASHING
07.0.17	MEMBRANE FLASHING
07.0.25	PREFINISHED METAL PANEL SOFFIT: MT-2
09.0.12	GYPSUM BOARD CEILING. SEE REFLECTED CEILING PLAN
09.2.31	3 5/8" METAL STUD FRAMING
09.2.38	HAT CHANNEL
09.6.03	SCHEDULED BASE
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
32.0.11	PAINTED STRIPES AND LETTERS

EXTERIOR WALL ASSEMBLIES



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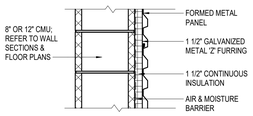

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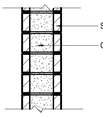

WA-4

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

WALL SECTIONS AND DETAILS

Sheet

A6.04

CONSTRUCTION DOCUMENTS

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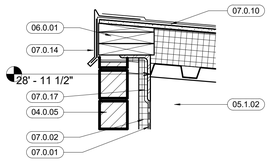

12 ROOF EDGE DETAIL
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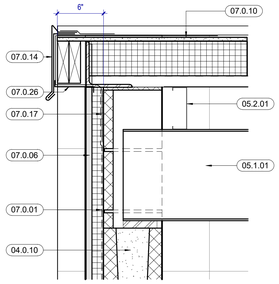

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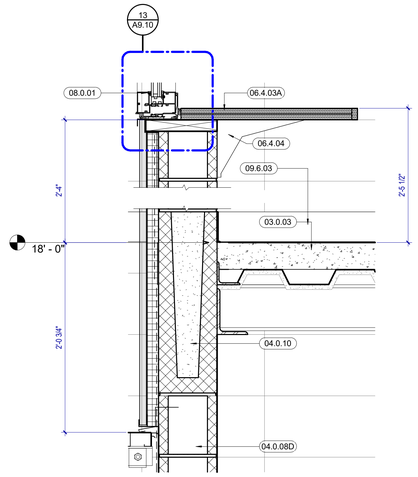

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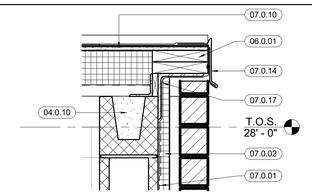

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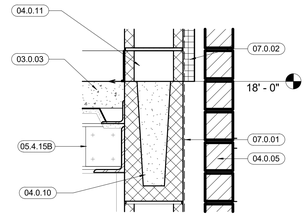

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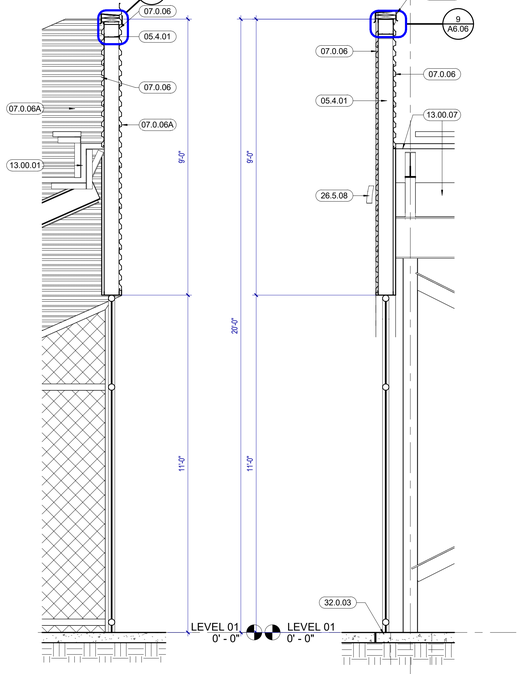
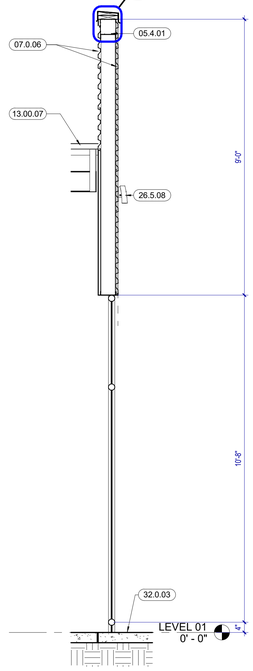
1 1/2" = 1'-0"



17 WALL SECTION
1/2" = 1'-0"

13 Section 25
1/2" = 1'-0"



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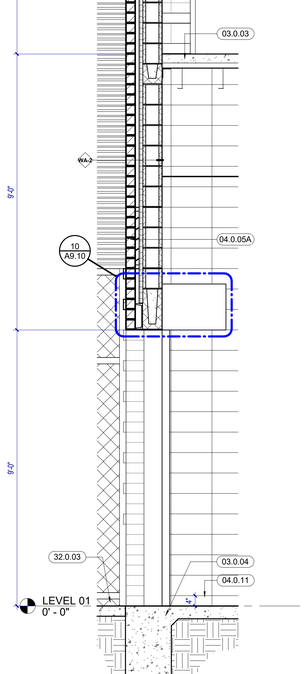

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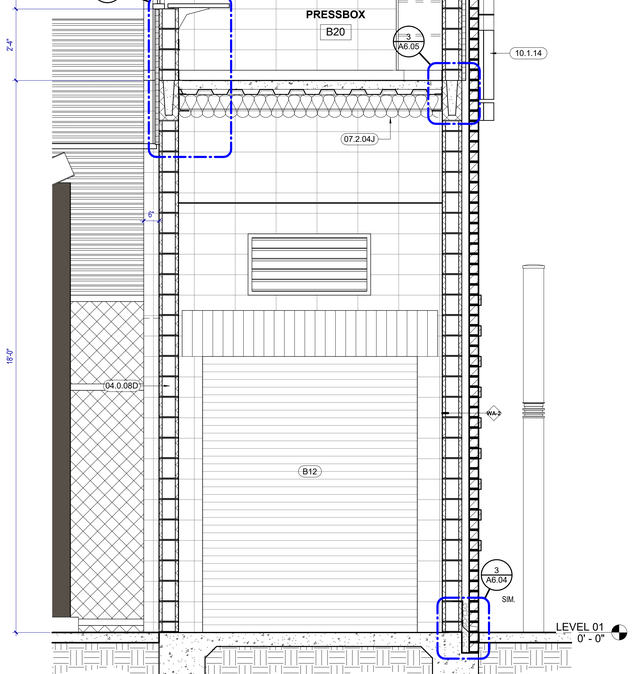
1/2" = 1'-0"

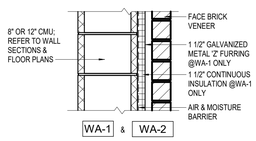


1 SECTION - PRESSBOX
1/2" = 1'-0"

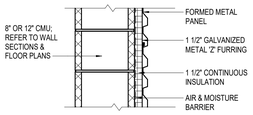
KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.03	CONCRETE SLAB OVER METAL DECKING. SEE STRUCTURAL DRAWINGS
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
04.0.05	FACE BRICK VENEER
04.0.05A	FACE BRICK VENEER; BR-1 TYPICAL U.N.O.
04.0.08D	8" CMU
04.0.10	CMU BOND BEAM. SEE STRUCTURAL DRAWINGS
04.0.11	4" CMU STARTER COURSE.
05.1.01	STRUCTURAL STEEL BRACE. SEE STRUCTURAL DRAWINGS
05.1.02	STRUCTURAL STEEL BEAM. SEE STRUCTURAL DRAWINGS
05.2.01	STEEL JOIST. SEE STRUCTURAL DRAWINGS
05.4.01	6" C-SHAPED METAL STUD @ 16" O.C.
05.4.15B	6" "C" JOIST
06.0.01	2X WOOD BLOCKING
06.4.03A	PLASTIC LAMINATE FINISH COUNTERTOP
06.4.04	COUNTER SUPPORT
07.0.01	AIR & MOISTURE BARRIER
07.0.02	1 1/2" CONTINUOUS INSULATION
07.0.06	FORMED METAL WALL PANEL
07.0.06A	FORMED METAL WALL PANEL: MT-4
07.0.10	RA-2 - THERMOPLASTIC ROOF MEMBRANE OVER COVER BOARD OVER 4 1/2" MIN. RIGID INSULATION ON METAL DECK.
07.0.13	PRE-FINISHED METAL COPING ON CONTINUOUS CLEAT.
07.0.14	PRE-FINISHED METAL ROOF EDGE W/ CONTINUOUS CLEAT
07.0.17	MEMBRANE FLASHING
07.0.26	PREFINISHED METAL PANEL SOFFIT: MT-2A
07.2.04J	R-38 BATT INSULATION
08.0.01	ALUMINUM STOREFRONT SYSTEM
09.0.15	SCHEDULED CEILING. SEE FINISH SCHEDULE.
09.6.03	SCHEDULED BASE
10.1.04	8" CAST ALUMINUM LETTERS
10.1.14	BACK-LIT CAST ALUMINUM LOGO. SEE FINISHE SCHEDULE FOR COLOR.
13.00.01	ALUMINUM BLEACHERS
13.00.07	BLEACHER STEEL FRAMING BY BLEACHER MANUFACTURER
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.

EXTERIOR WALL ASSEMBLIES



WA-1 & WA-2



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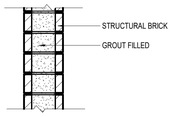

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14 February 2025

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Sheet Information	
Date	10 November 2025
Job Number	23-012
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Checked	Checker
Approved	Approver

Title

WALL SECTIONS AND DETAILS

Sheet

A6.05

CONSTRUCTION DOCUMENTS

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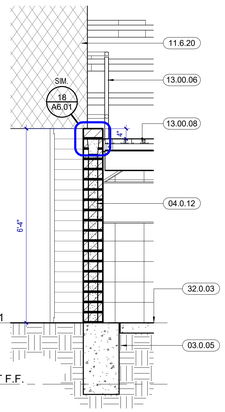
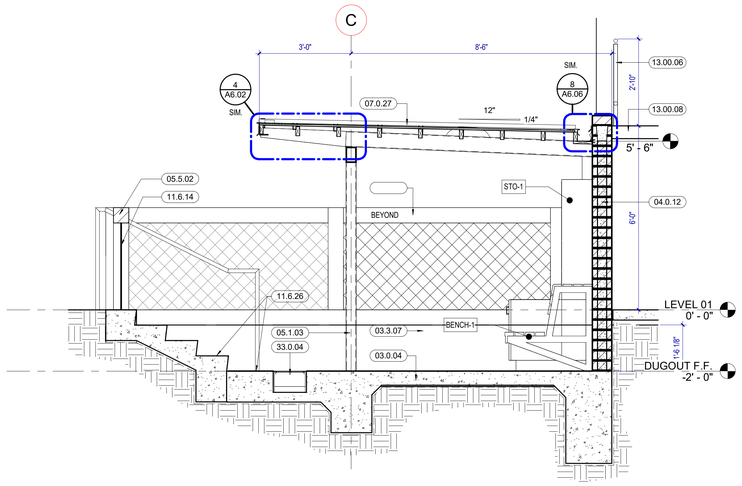
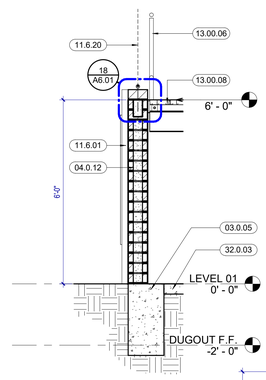


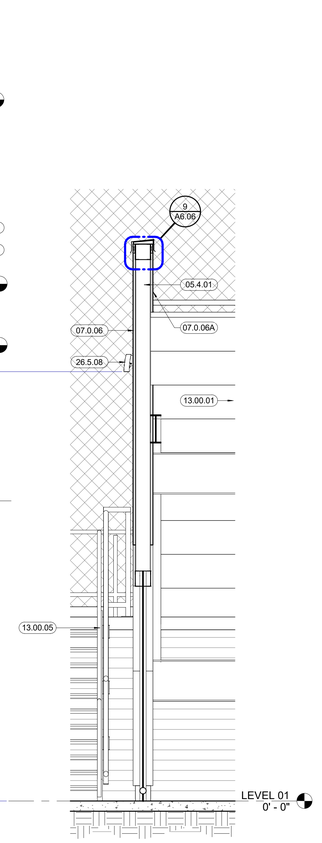
18 WALL SECTION
1/2" = 1'-0"



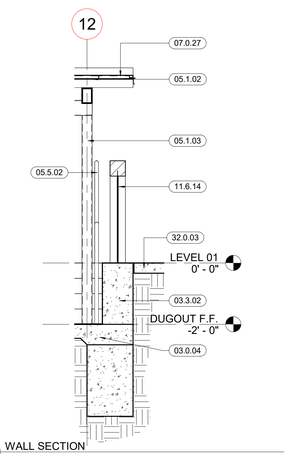
11 AREA B DUGOUT SECTION
1/2" = 1'-0"



7 WALL SECTION
1/2" = 1'-0"



1 WALL SECTION - BLEACHER WALL
1/2" = 1'-0"



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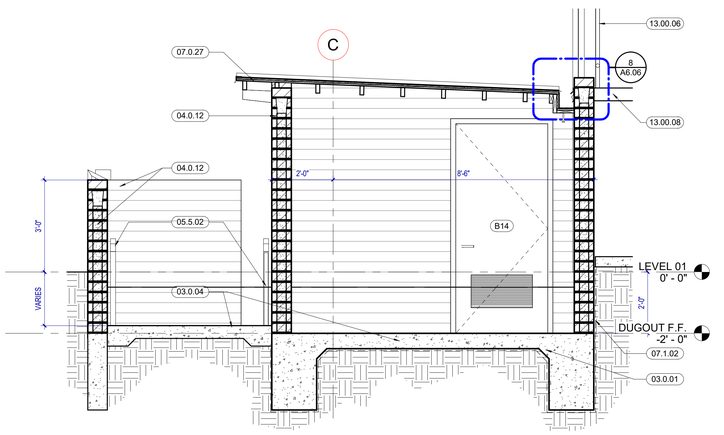
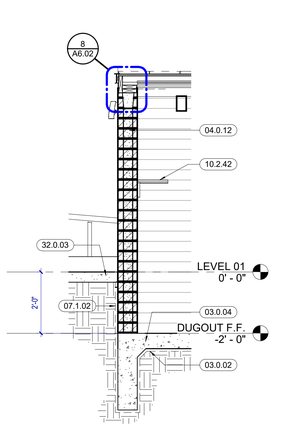
1/2" = 1'-0"



10 SECTION AT MAIN FIELD DUGOUT STORAGE
1/2" = 1'-0"



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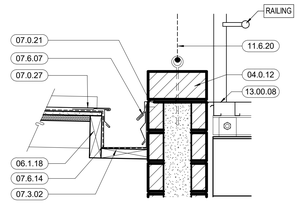
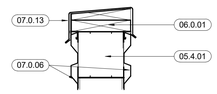
1/2" = 1'-0"



8 GUTTER DETAIL
1 1/2" = 1'-0"

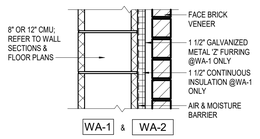


9 WALL CAP DETAIL - FORMED METAL WALLPAENL
1 1/2" = 1'-0"

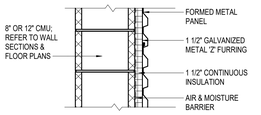
KEYED NOTES

KEYED NOTE	DESCRIPTION
03.0.01	VAPOR RETARDER
03.0.02	VAPOR BARRIER
03.0.04	CONCRETE SLAB. SEE STRUCTURAL DRAWINGS
03.0.05	CONCRETE FOUNDATION. SEE STRUCTURAL DRAWINGS
03.3.02	CAST-IN-PLACE CONCRETE WALL WITH RUB FINISH.
03.3.07	CAST-IN-PLACE CONCRETE WALL, SEE STRUCTURAL DRAWINGS
04.0.12	STRUCTURAL BRICK: BR-3.
05.1.02	STRUCTURAL STEEL BEAM. SEE STRUCTURAL DRAWINGS
05.1.03	STRUCTURAL STEEL COLUMN. SEE STRUCTURAL DRAWINGS
05.4.01	6" C-SHAPED METAL STUD @ 16" O.C.
05.5.02	1 1/2" DIAMETER STAINLESS STEEL HANDRAIL
06.0.01	2X WOOD BLOCKING
06.1.18	2X4 FRAMING
07.0.06	FORMED METAL WALL PANEL
07.0.06A	FORMED METAL WALL PANEL: MT-4
07.0.13	PRE-FINISHED METAL COPING ON CONTINUOUS CLEAT.
07.0.21	CONTINUOUS BACKER ROD AND SEALANT
07.0.27	RA-3 PROFILE PVC EXTRUSION ON THERMOPLASTIC ROOF MEMBRANE ON COVER BOARD ON PLYWOOD DECK.
07.1.02	WATERPROOFING MEMBRANE
07.3.02	15# FELT UNDERLAYMENT
07.6.07	PRE-FINISHED METAL COUNTER FLASHING WITH DRIP EDGE. ISOLATE BETWEEN DISSIMILAR METALS
07.6.14	PRE-FINISHED METAL GUTTER: MT-3.
10.2.42	WALL MOUNTED METAL SHELF @ 5'-0" O.C.
11.6.01	6'-0" HIGH WALL PROTECTION PAD
11.6.14	SPADDED SQUARE GUARDRAIL WITH SAFETY NET & WINDSCREEN INFILL.
11.6.20	40'-0" SAFETY NET.
11.6.26	ATHLETIC RUBBER MAT.
13.00.01	ALUMINUM BLEACHERS
13.00.05	ALUMINUM HANDRAIL BY BLEACHER MANUFACTURER
13.00.06	ALUMINUM RAILING BY BLEACHER MANUFACTURER
13.00.08	ALUMINUM BLEACHER DECKING.
26.5.08	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
32.0.03	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS.
33.0.04	LINEAR DRAIN,SEE CIVIL DRAWINGS

EXTERIOR WALL ASSEMBLIES



WA-1 & WA-2



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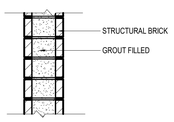

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Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BEVEL 10153 STATE OF TEXAS
14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

WALL SECTIONS AND DETAILS

Sheet

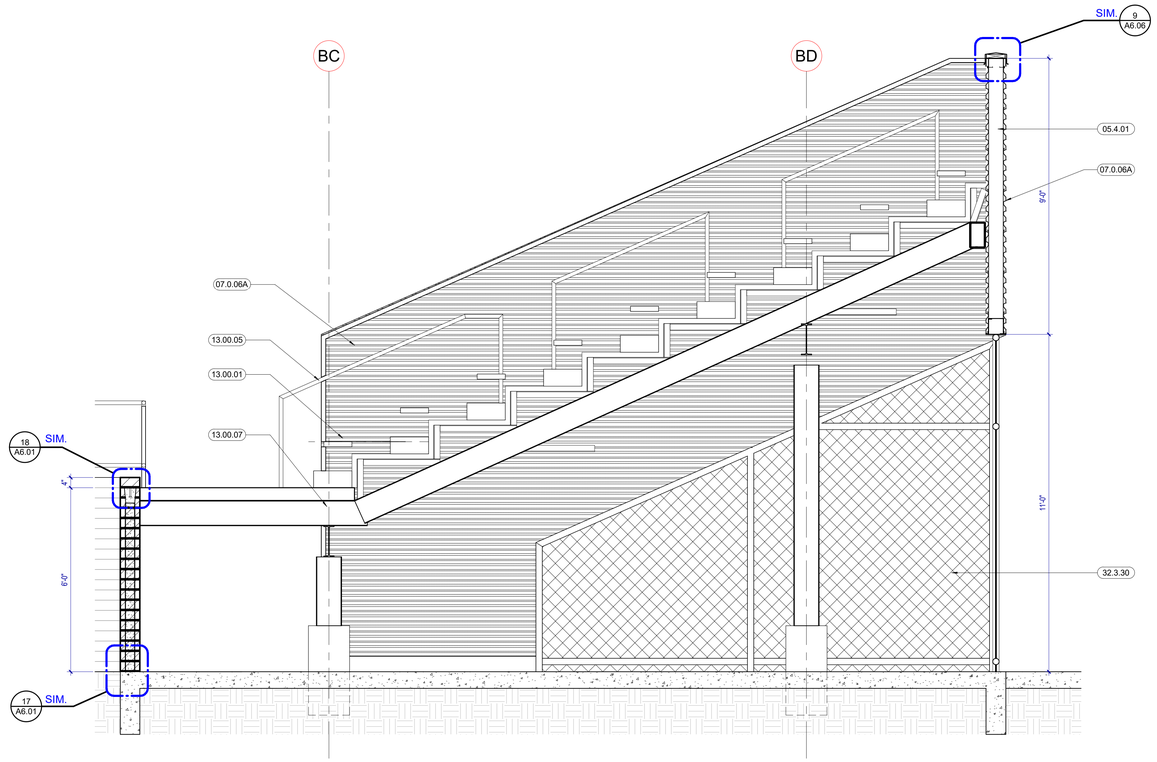
A6.06

CONSTRUCTION DOCUMENTS

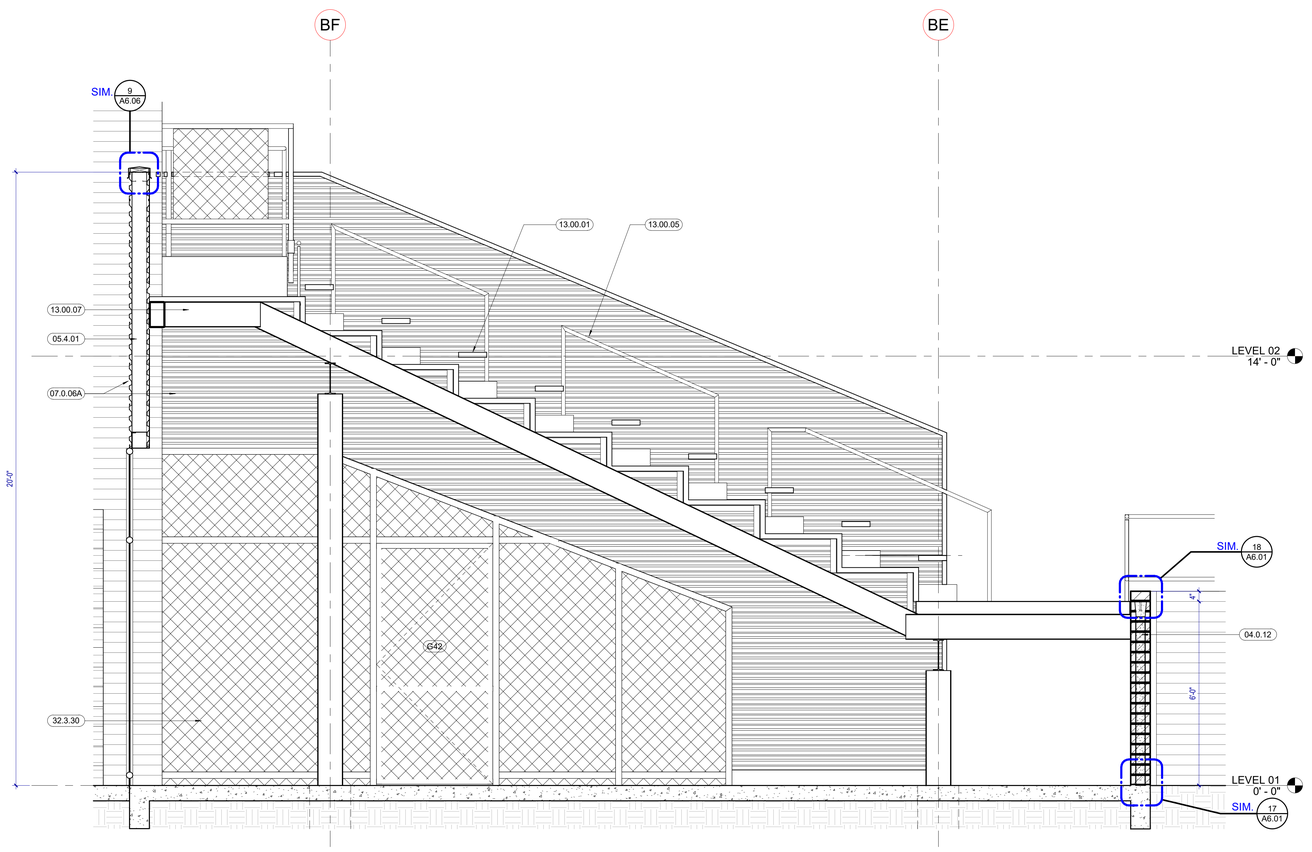
BINDING EDGE

C:\Users\bayardsellwall\Documents\PISD - Softball Complex - R22\23_bayardo.selvw@cre8houston.com.rvt

BINDING EDGE



2 FIELD B SIDE BLEACHERS
1/2" = 1'-0"



1 FIELD B CENTER BLEACHERS
1/2" = 1'-0"

BINDING EDGE

cre8 ARCHITECTS
3815 Montrose Boulevard
Suite 123
Houston, Texas 77006
713.526.cre8 (2738)
713.526.3198 fax

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PASADENA ISD SOFTBALL COMPLEX

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11/10/2025 11:53:55 AM

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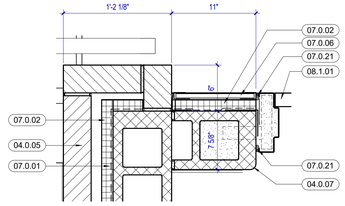
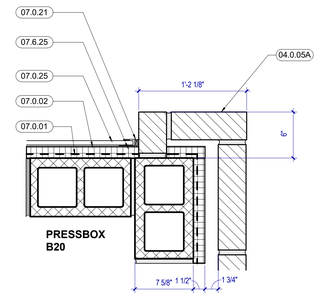
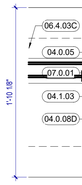


8 JAMB DETAIL PRESS BOX
1 1/2" = 1'-0"



4 PRESSBOX BRICK @ METAL PANEL
1 1/2" = 1'-0"



7 JAMB DETAIL OCCD
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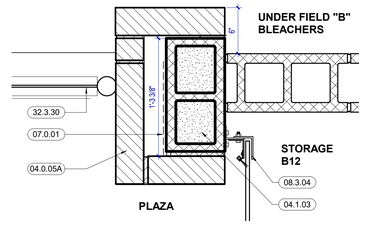
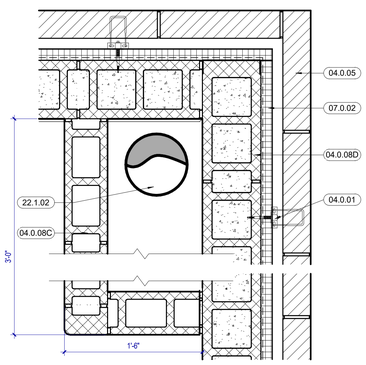
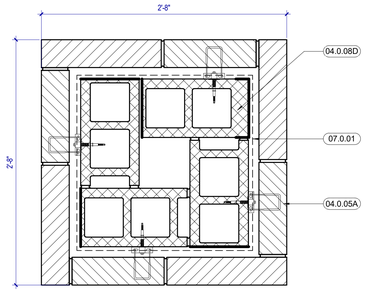


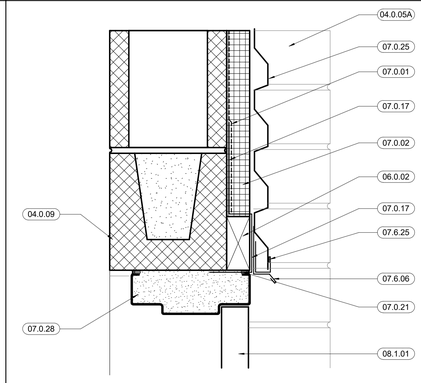
3 STORAGE B12 BRICK @ METAL PANEL
1 1/2" = 1'-0"



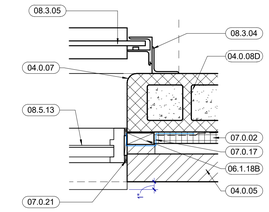
6 PLAN DETAIL @ ROOF DRAIN
1 1/2" = 1'-0"



2 CMU PILASTER
1 1/2" = 1'-0"



5 A9-H.M. DOOR HEAD DETAIL, CMU W/ METAL PANEL
3" = 1'-0"

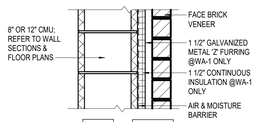


1 JAMB TICKET BOOTH WINDOW
1 1/2" = 1'-0"

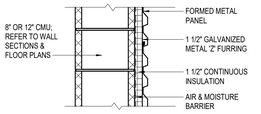
KEYED NOTES

KEYED NOTE	DESCRIPTION
04.0.01	MASONRY TIE
04.0.05	FACE BRICK VENEER
04.0.05A	FACE BRICK VENEER: BR-1 TYPICAL U.N.O.
04.0.07	CMU BULLNOSE CORNER
04.0.08C	6" CMU
04.0.08D	8" CMU
04.0.09	CMU LINTEL. SEE STRUCTURAL DRAWINGS
04.1.03	GROUT CORES SOLID
06.0.02	TREATED 2X WOOD BLOCKING
06.1.18B	2X4 FRAMING @ 16" O.C.
06.4.03C	STAINLESS STEEL COUNTERTOP
07.0.01	AIR & MOISTURE BARRIER
07.0.02	1 1/2" CONTINUOUS INSULATION
07.0.06	FORMED METAL WALL PANEL
07.0.17	MEMBRANE FLASHING
07.0.21	CONTINUOUS BACKER ROD AND SEALANT
07.0.25	PREFINISHED METAL PANEL SOFFIT: MT-2
07.0.28	BITUMINOUS COATING @ FRAME BACK SIDE & GROUT SOLID.
07.6.06	PRE-FINISHED METAL FLASHING WITH DRIP EDGE. ISOLATE BETWEEN DISSIMILAR METALS, TYPICAL
07.6.25	PRE-FINISHED J-TRIM TO MATCHE METAL PANEL
08.1.01	HOLLOW METAL DOOR AND FRAME. SEE DOOR SCHEDULE
08.3.04	OVERHEAD COILING DOOR TRACK
08.3.05	OVER COUNTER COILING DOOR
08.5.13	TRANSACTION WINDOW
22.1.02	ROOF DRAIN
32.3.30	VINYL COATED CHAINLINK FENCE

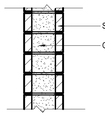
EXTERIOR WALL ASSEMBLIES



WA-1 & WA-2



WA-3



WA-4

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PLAN DETAILS

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A6.20

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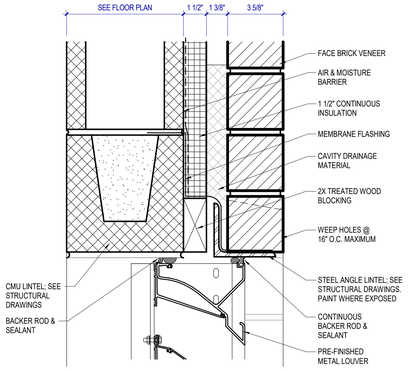
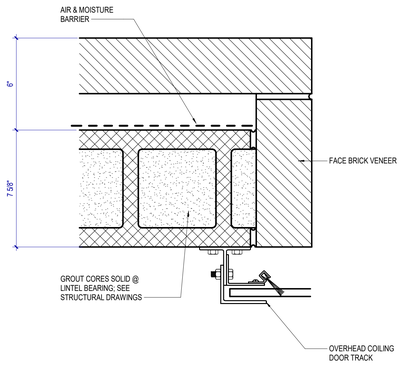
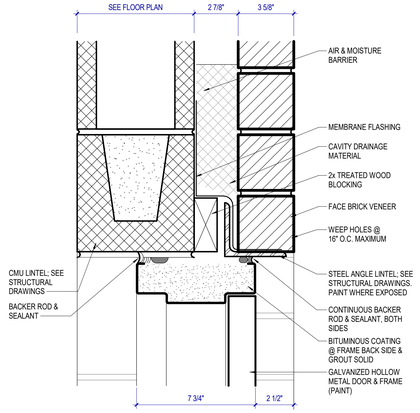


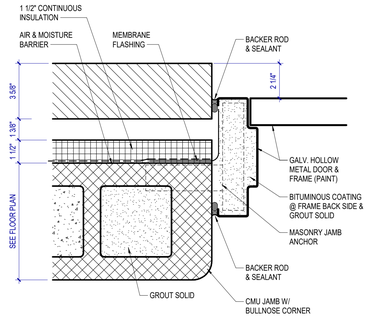
12 LOUVER HEAD DETAIL
3" = 1'-0"



9 OVERHEAD COILING DOOR JAMB DETAIL
3" = 1'-0"



6 H.M. DOOR HEAD DETAIL @ EXTERIOR WALL
3" = 1'-0"



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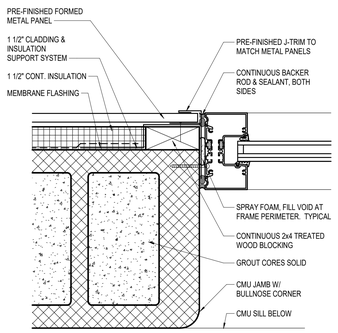
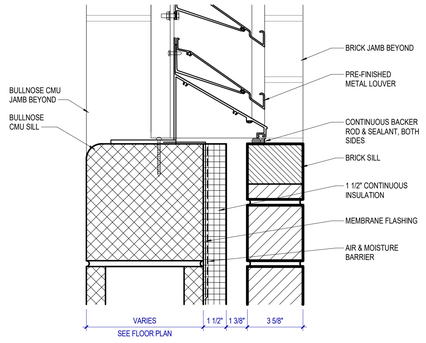
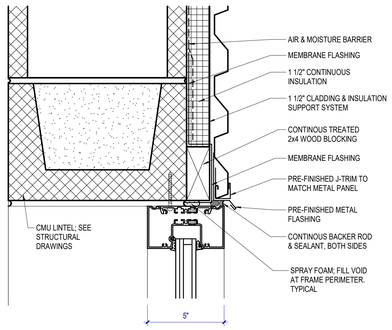
3" = 1'-0"



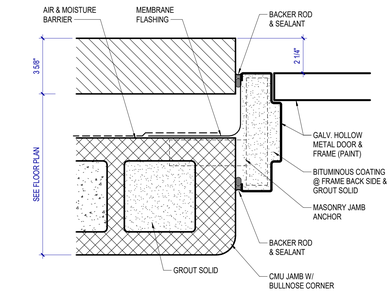
14 STOREFRONT JAMB DETAIL, CMU W/ METAL PANEL
3" = 1'-0"



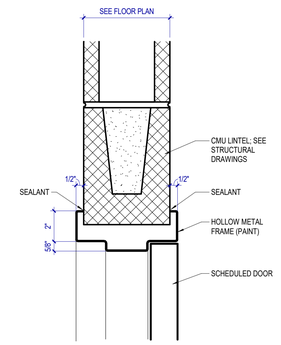
11 LOUVER SILL DETAIL
3" = 1'-0"



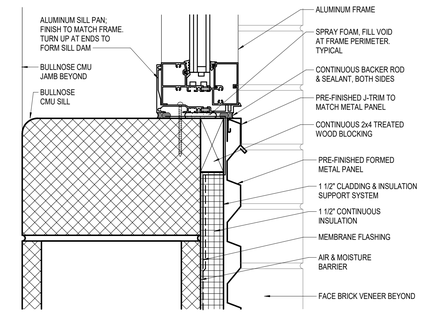
8 STOREFRONT HEAD DETAIL, CMU W/ METAL PANEL
3" = 1'-0"



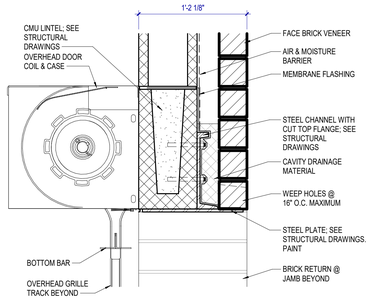
5 H.M. DOOR JAMB DETAIL @ EXTERIOR WALL
3" = 1'-0"



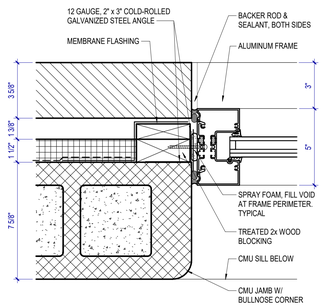
2 H.M. DOOR HEAD DETAIL @ CMU
3" = 1'-0"



13 STOREFRONT SILL DETAIL, CMU W/ METAL PANEL
3" = 1'-0"



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



7 STOREFRONT JAMB DETAIL, CMU W/ BRICK
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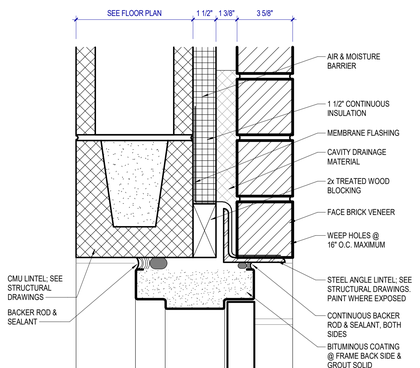

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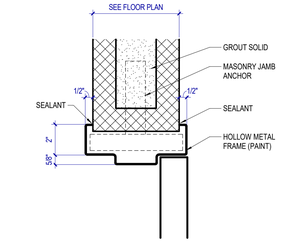
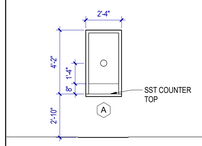
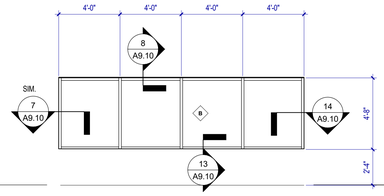
3" = 1'-0"



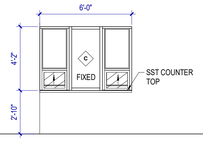
1 H.M. DOOR JAMB DETAIL @ CMU
3" = 1'-0"



A - ALUMINUM STOREFRONT WITH CLEAR IMPACT RESISTANT GLAZING

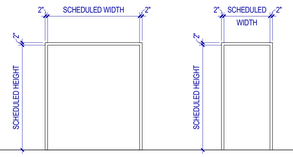


B - ALUMINUM STOREFRONT WITH INSULATED IMPACT RESISTANT GLAZING



C - ALUMINUM FRAMED CONCESSION SINGLE-HUNG WINDOW WITH SELF CLOSING SCREENS.

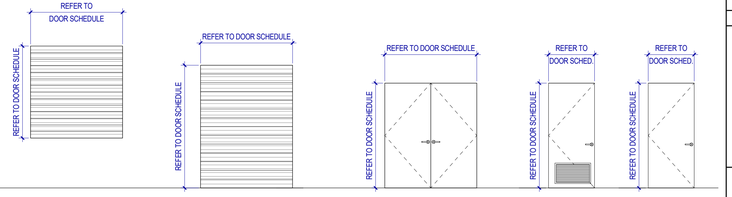
WINDOW TYPES



02 - HOLLOW METAL FRAME (DOUBLE DOOR)

01 - HOLLOW METAL FRAME (SINGLE DOOR)

HOLLOW METAL DOOR FRAME TYPES



OCCD - OVER COUNTER COILING DOOR

OHCD - OVERHEAD COILING DOOR

FP - FLUSH PAIR

FL - FLUSH WITH LOUVER

F - FLUSH

DOOR TYPES

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DOOR AND FRAME TYPES

Sheet

A9.10

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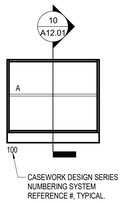
11/10/2025 11:54:02 AM

BINDING EDGE

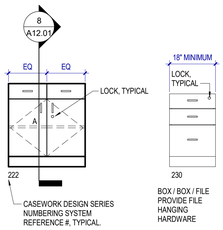
CASEWORK LEGEND

Woodworking Institute
Casework Design Series (CDS) Numbering System

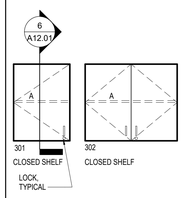
NOTES:
1) Base cabinets shall be 24" deep U.N.O.
2) Wall hung cabinets shall be 16" deep U.N.O.
3) Tall storage cabinets shall be 24" deep U.N.O.
4) Refer to A8 sheets for construction details.
5) All casework P.Lam. finish U.N.O.
6) Grommets where indicated; coordinate with Architect/Owner for final locations
7) Refer to Woodwork Institute Manual of Millwork for the Casework Design Series Standard Numbering System and additional details.
9) Cabinets to be lockable, U.N.O.



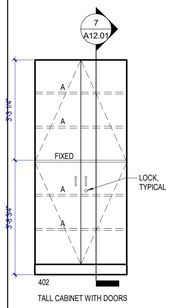
1. 100 SERIES, BASE CABINETS WITHOUT DRAWERS



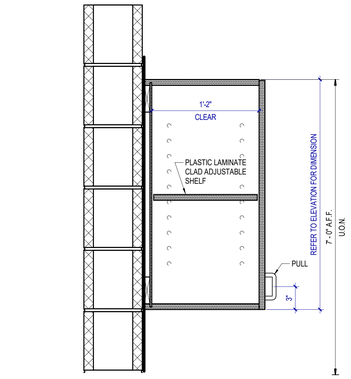
2. 200 SERIES, BASE CABINETS WITH DRAWERS



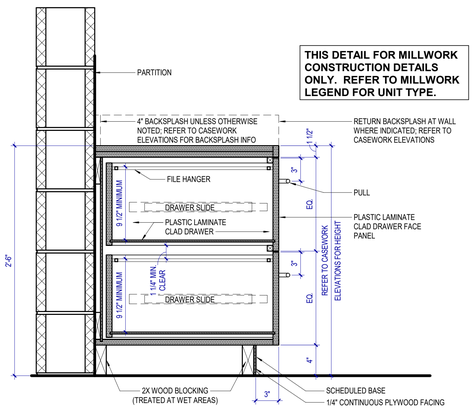
3. 300 SERIES, WALL CABINETS STYLES



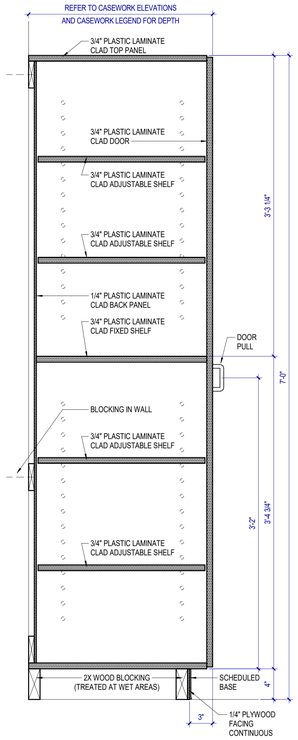
4. 400 SERIES, TALL STORAGE CABINETS



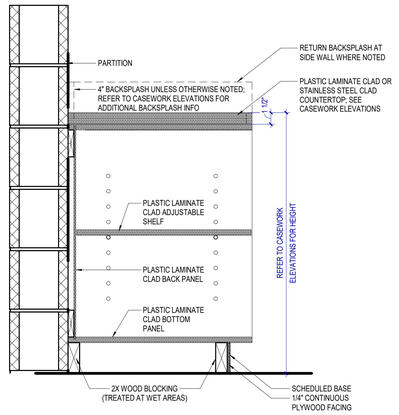
6 WALL HUNG CABINET DETAIL
1 1/2" = 1'-0"



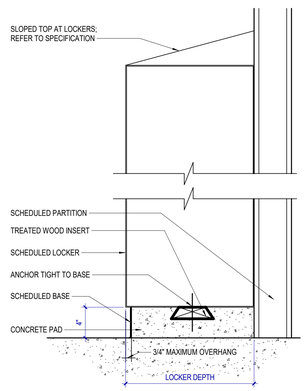
8 TYPICAL BASE CABINET DETAIL
1 1/2" = 1'-0"



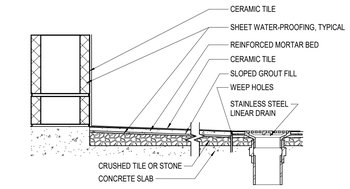
7 TAL CABINET DETAIL
1 1/2" = 1'-0"



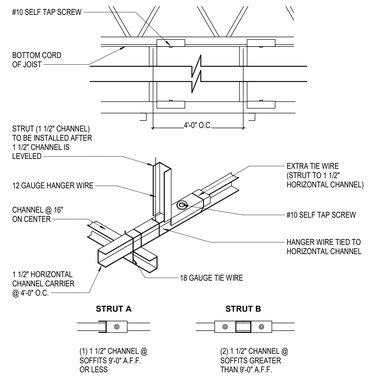
10 TYPICAL BAS CABINET DETAIL - OPEN
1 1/2" = 1'-0"



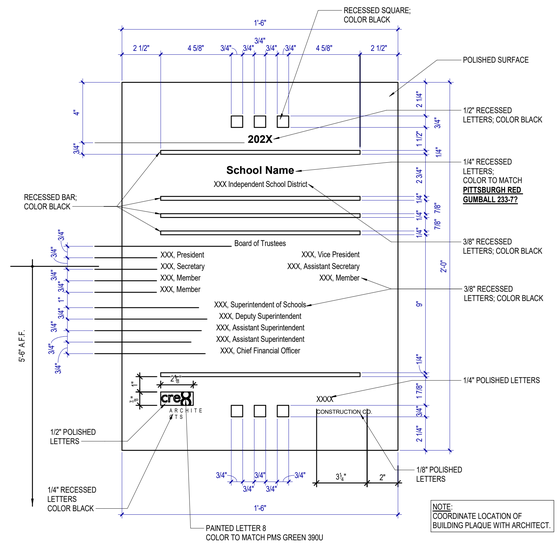
5 LOCKER BASE DETAIL
1 1/2" = 1'-0"



4 SHOWER PAN DETAIL
1 1/2" = 1'-0"



3 UPLIFT PREVENTION DETAIL @ PLASTER SOFFIT
3/4" = 1'-0"



1 BUILDING PLAQUE
3" = 1'-0"

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PASADENA ISD SOFTBALL COMPLEX

1515 Cherrybrook Lane
Pasadena, Texas 77502
Pasadena Independent School District

REGISTERED ARCHITECT JERRY G. BAKER 10153 STATE OF TEXAS
Jerry G. Baker Released 14 February 2025

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

MISC. DETAILS

Sheet

A12.01

CONSTRUCTION DOCUMENTS

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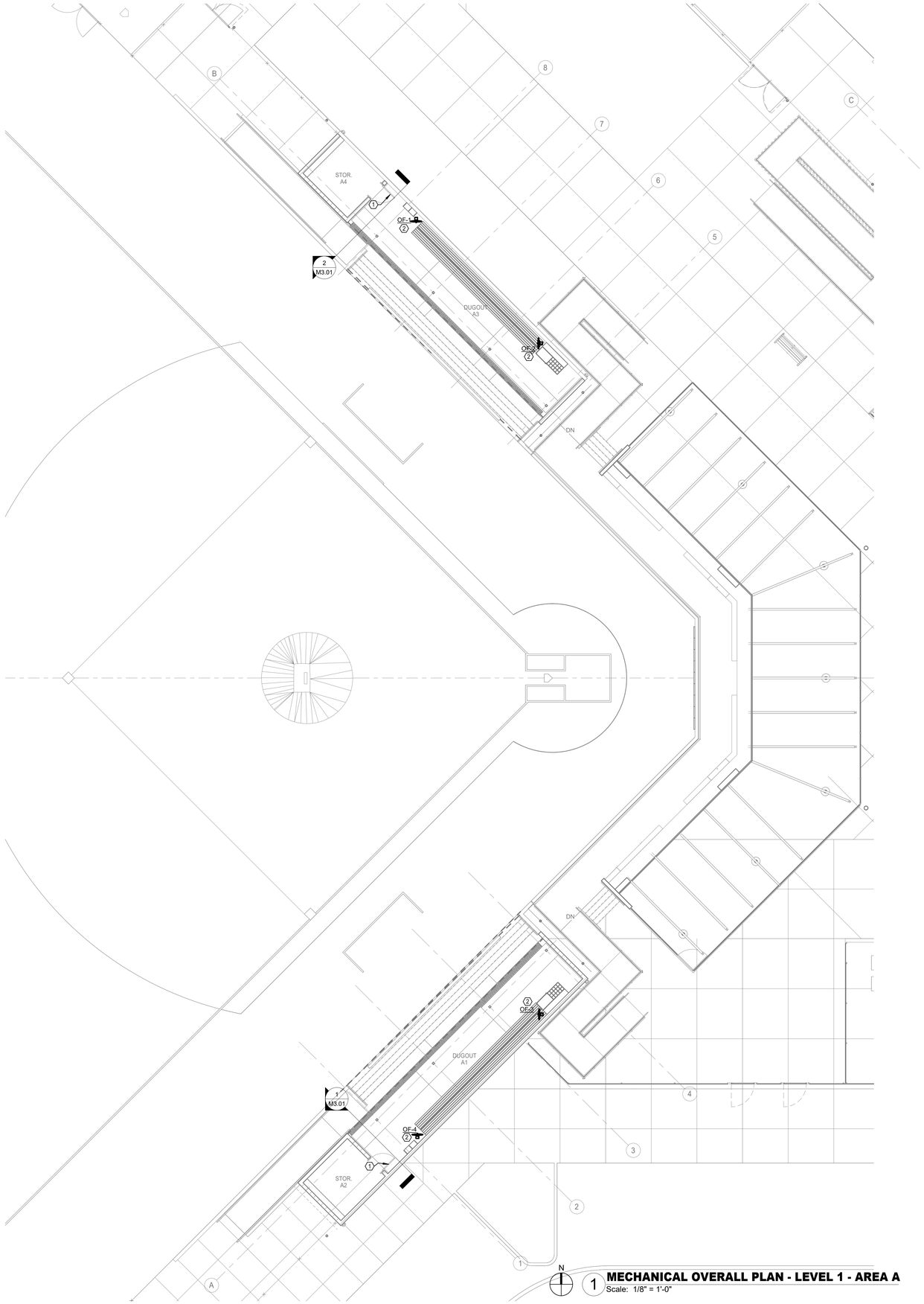

N

1 **MECHANICAL OVERALL PLAN - LEVEL 1 - AREA A**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1	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.
2	ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3	MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4	COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

(#) MECHANICAL KEYED NOTES

1	PROVIDE 24"W X 12"H LOUVER DOOR WITH MINIMUM FREE AREA OF 0.67 SQUARE FEET. COORDINATE WITH ARCHITECT FOR MORE INFORMATION.
2	PROVIDE OSCILLATING FAN. COORDINATE FINAL LOCATION WITH ARCHITECT.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS
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Revision Schedule

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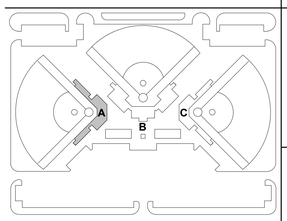
Approved	Approver



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MECHANICAL FLOOR PLAN - AREA A

Sheet

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CONSTRUCTION DOCUMENTS

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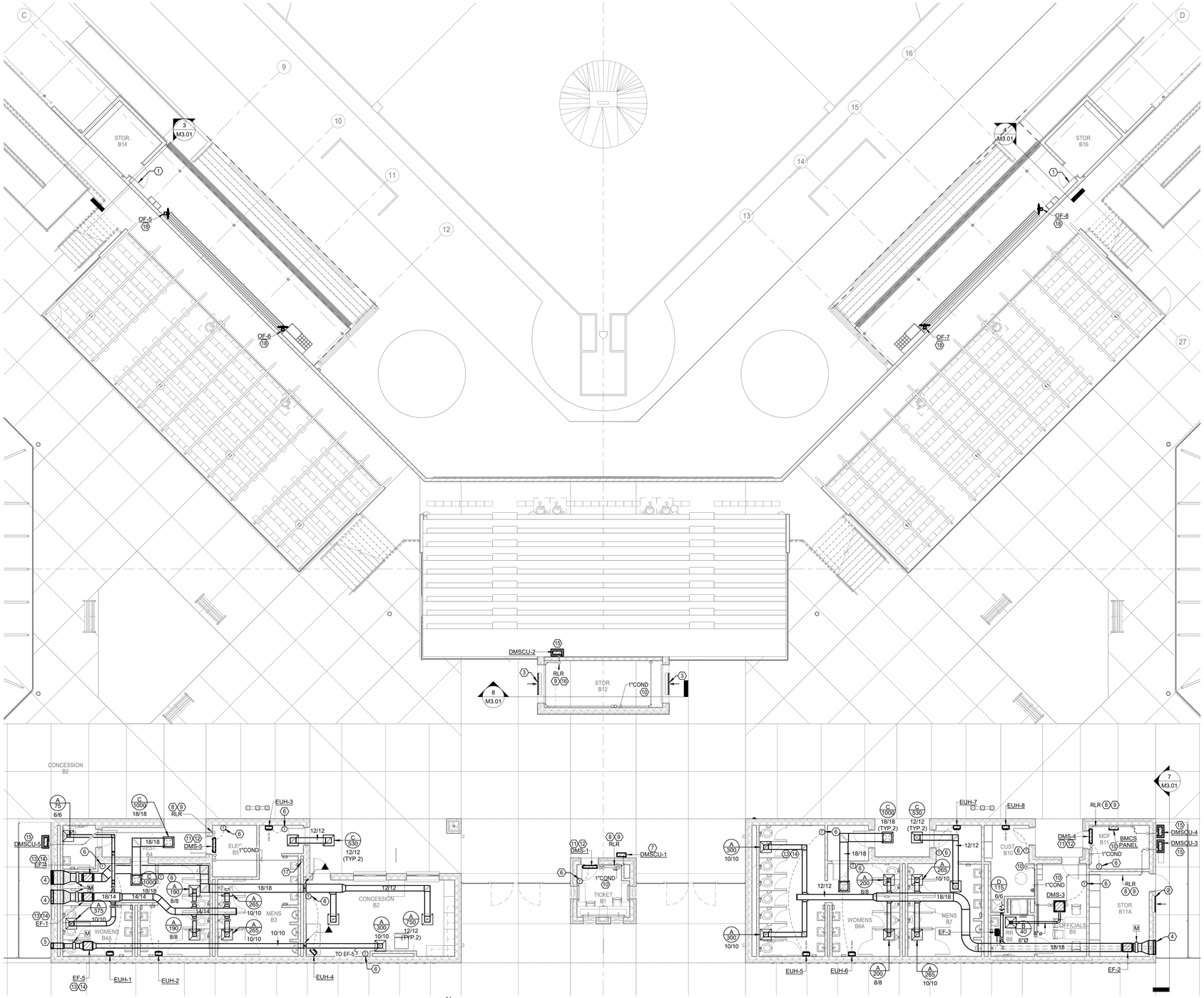

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1 **MECHANICAL OVERALL PLAN - LEVEL 1 - AREA B**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1	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.
2	ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3	MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4	COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL KEYED NOTES

#	
1	PROVIDE 24"W X 12"H LOUVER DOOR WITH MINIMUM FREE AREA OF 0.67 SQUARE FEET. COORDINATE WITH ARCHITECT FOR MORE INFORMATION.
2	PROVIDE 36"W X 24"H INTAKE LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUIVALENT, WITH MINIMUM FREE AREA OF 2.78 SQUARE FEET. PROVIDE LOUVER WITH BIRDSCREEN. LOUVERS SHALL BE INSTALLED 12" AFF AND 12" BELOW STRUCTURE/CEILING. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
3	PROVIDE 48"W X 24"H INTAKE LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUIVALENT, WITH MINIMUM FREE AREA OF 3.79 SQUARE FEET. PROVIDE LOUVER WITH BIRDSCREEN. BOTTOM OF LOUVER SHALL BE LOCATED 11'-0" AFF. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4	PROVIDE 30"W X 30"H EXHAUST LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUIVALENT, WITH MINIMUM FREE AREA OF 2.98 SQUARE FEET. PROVIDE LOUVER WITH BIRDSCREEN. BOTTOM OF LOUVER SHALL BE LOCATED 10'-3" AFF. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
5	PROVIDE 30"W X 30"H EXHAUST LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUIVALENT, WITH MINIMUM FREE AREA OF 2.98 SQUARE FEET. PROVIDE LOUVER WITH BIRDSCREEN. BOTTOM OF LOUVER SHALL BE LOCATED 11'-9" AFF. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
6	PROVIDE HARD WIRED THERMOSTAT.
7	CONDENSING UNIT TO BE MOUNTED ON WALL. PROVIDE WITH STAINLESS STEEL MOUNTING BRACKETS. REFER TO MANUFACTURER FOR MOUNTING REQUIREMENTS. BOTTOM OF CONDENSING UNIT TO BE MOUNTED AT 7'-3" AFF.
8	ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO ASSOCIATED INDOOR UNIT. PIPING SHOWN SINGLE LINE FOR CLARITY.
9	INSULATE AND PROVIDE ALUMINUM JACKETING ON ALL REFRIGERANT PIPING PER SPECIFICATIONS.
10	ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR SINK. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER. REFER TO PLUMBING FOR EXACT LOCATION OF FLOOR SINK.
11	VERIFY SERVICE CLEARANCE FOR AIR FILTER REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
12	VERIFY SERVICE CLEARANCE FOR FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
13	SUSPEND UNIT WITH THREADED HANGER RODS ATTACHED TO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.
14	PROVIDE WITH 24"X24" ACCESS PANEL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15	CONDENSING UNIT TO BE INSTALLED ON CONCRETE PAD AT GROUND LEVEL. REFER TO MANUFACTURER FOR MOUNTING REQUIREMENTS.
16	ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO ASSOCIATED INDOOR UNIT. PIPING SHOWN SINGLE LINE FOR CLARITY. RE: 9/M3.01 FOR CONTINUATION.
17	ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO SINK TAILPIECE. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER. RE: DETAIL 12/M4.02 FOR ADDITIONAL INFORMATION.
18	PROVIDE OSCILLATING FAN. COORDINATE FINAL LOCATION WITH ARCHITECT.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMAS 80219 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS
11-10-25

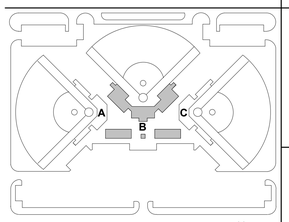
Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

MECHANICAL FLOOR PLAN - AREA B



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CONSTRUCTION DOCUMENTS

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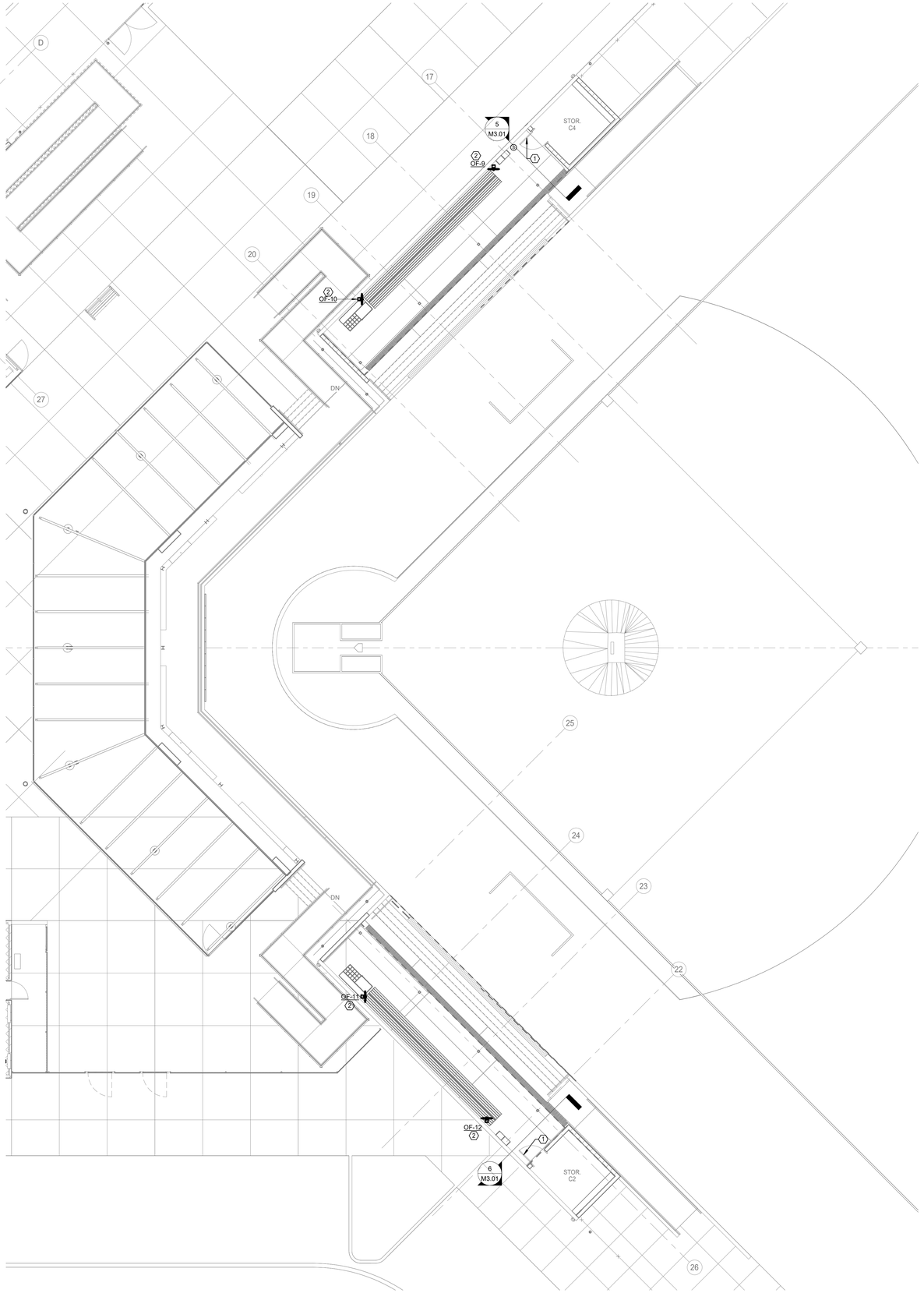

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1 **MECHANICAL OVERALL PLAN - LEVEL 1 - AREA C**
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1	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.
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5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL KEYED NOTES

#	
1	PROVIDE 24"W X 12"H LOUVER DOOR WITH MINIMUM FREE AREA OF 0.67 SQUARE FEET. COORDINATE WITH ARCHITECT FOR MORE INFORMATION.
2	PROVIDE OSCILLATING FAN. COORDINATE FINAL LOCATION WITH ARCHITECT.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

STATE OF TEXAS
BRADLEY KALMANS
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PROFESSIONAL ENGINEER
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
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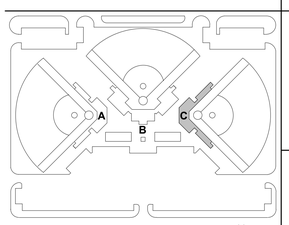
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver



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MECHANICAL FLOOR PLAN - AREA C

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CONSTRUCTION DOCUMENTS

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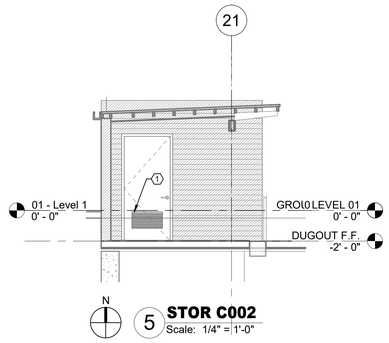
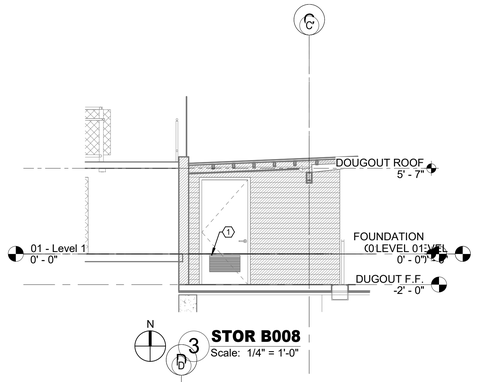


N 5 **STOR C002**
Scale: 1/4" = 1'-0"



N 3 **STOR B008**
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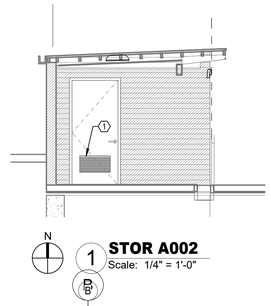
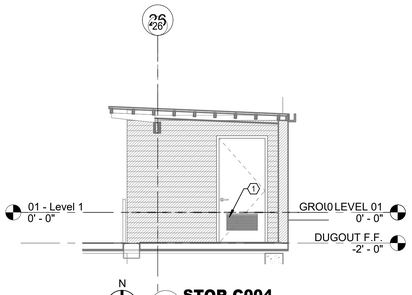


N 1 **STOR A002**
Scale: 1/4" = 1'-0"



N 6 **STOR C004**
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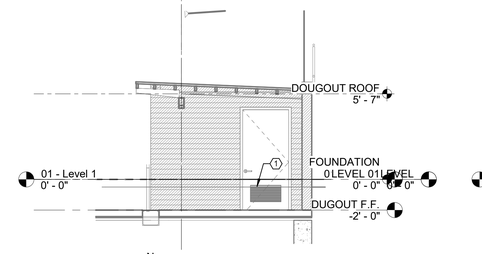
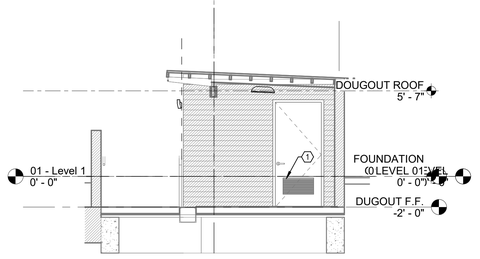


N 4 **STOR B010**
Scale: 1/4" = 1'-0"



N 2 **STOR A004**
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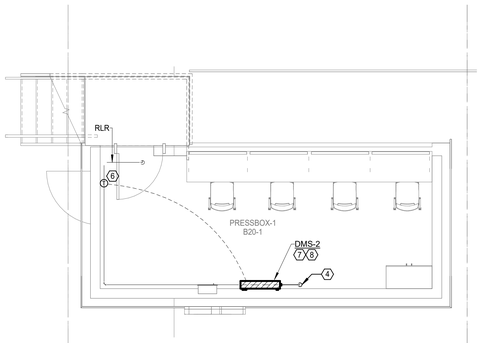
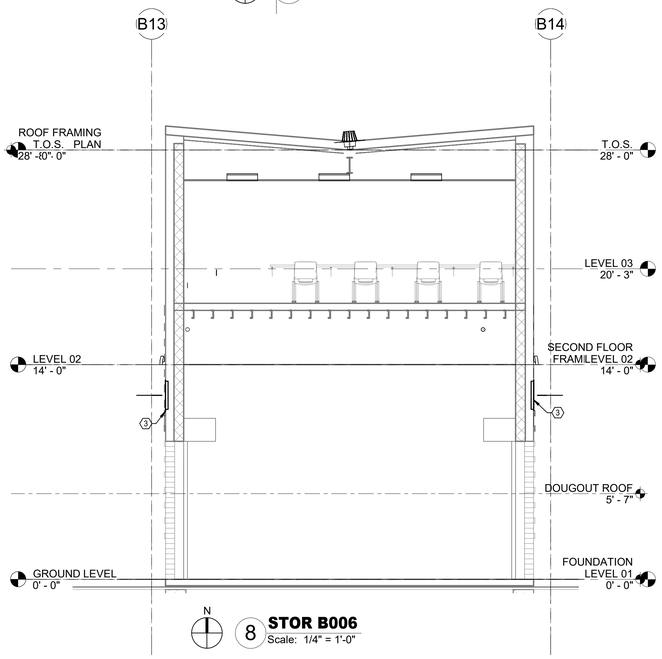


N B13 9 B14 **MECHANICAL PLAN - LEVEL 2 - PRESSBOX**
Scale: 1/4" = 1'-0"



N 8 **STOR B006**
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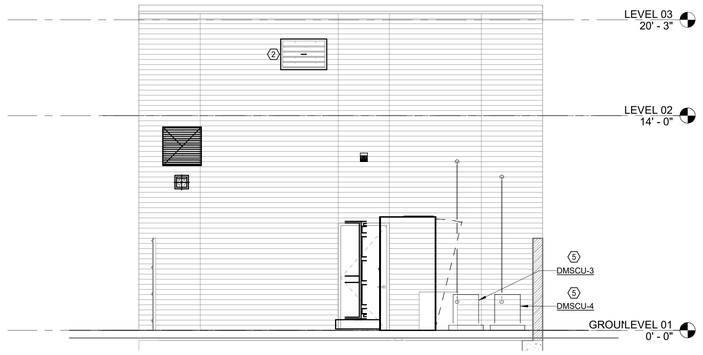

N 7 **STOR B016**
Scale: 1/4" = 1'-0"

MECHANICAL GENERAL NOTES

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5	THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.

MECHANICAL KEYED NOTES

1	PROVIDE 24"W X 12"H LOUVER DOOR WITH MINIMUM FREE AREA OF 0.67 SQUARE FEET. COORDINATE WITH ARCHITECT FOR MORE INFORMATION.
2	PROVIDE 36"W X 24"H INTAKE LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUIVALENT, WITH MINIMUM FREE AREA OF 2.78 SQUARE FEET. PROVIDE LOUVER WITH BIRDSCREEN. LOUVERS SHALL BE INSTALLED 12" AFF AND 12" BELOW STRUCTURE/CEILING. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
3	PROVIDE 48"W X 24"H INTAKE LOUVER, RUSKIN MODEL HZ700 OR APPROVED EQUIVALENT, WITH MINIMUM FREE AREA OF 3.79 SQUARE FEET. PROVIDE LOUVER WITH BIRDSCREEN. BOTTOM OF LOUVER SHALL BE LOCATED 11'-0" AFF. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4	ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR SINK. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER. REFER TO PLUMBING FOR EXACT LOCATION OF FLOOR SINK. RE: 1/M2.02 FOR CONTINUATION.
5	CONDENSING UNIT TO BE INSTALLED ON CONCRETE PAD AT GROUND LEVEL. REFER TO MANUFACTURER FOR MOUNTING REQUIREMENTS.
6	PROVIDE HARD WIRED THERMOSTAT.
7	VERIFY SERVICE CLEARANCE FOR AIR FILTER REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
8	VERIFY SERVICE CLEARANCE FOR FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

STATE OF TEXAS
BRADLEY KALMANS
80219
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11-10-25

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Approved	Approver

Title

MECHANICAL ENLARGED PLAN

Sheet

M3.01

CONSTRUCTION DOCUMENTS

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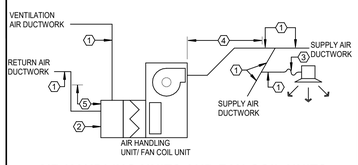
DUCT LINER AND INSULATION



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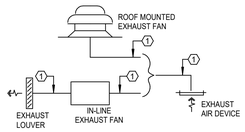


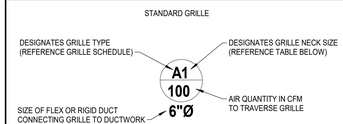
EXHAUST AIR SYSTEMS

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.
6. EXHAUST DUCTWORK AS SPECIFIED WITH FIREBOARD INSULATION AS SPECIFIED.
7. SHEETMETAL DUCTWORK ONLY. NO INSULATION REQUIRED.

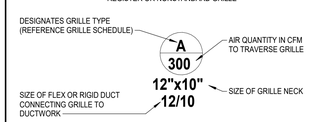
GRILLE SIZING SCHEDULE

STANDARD GRILLE



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

REGISTER OR NONSTANDARD GRILLE



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"

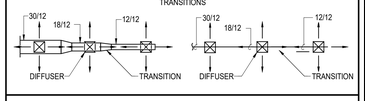
DAMPER

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

DUCTWORK SYMBOLS LEGEND

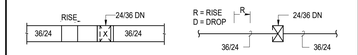
TRANSITIONS



MAIN BRANCH TAKE-OFFS



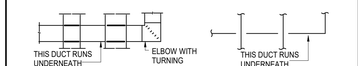
RISERS



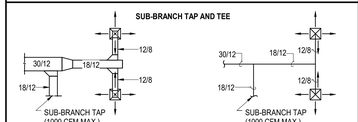
SIDEWALL REGISTERS

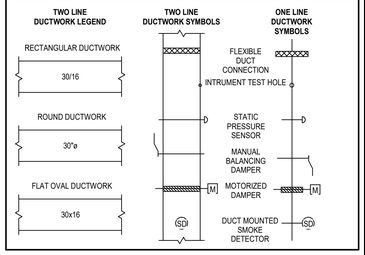


DUCT CROSSOVERS

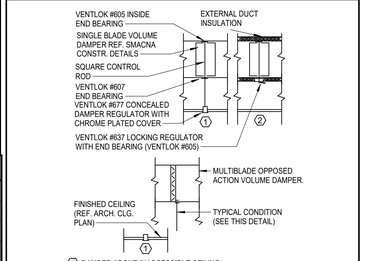


SUB-BRANCH TAP AND TEE



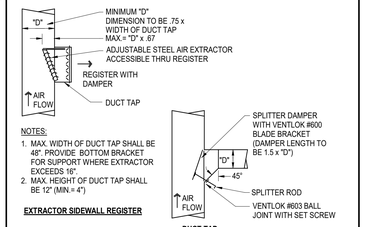


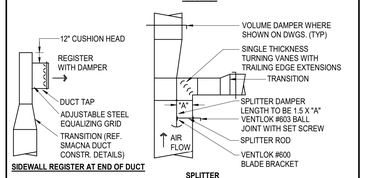
DUCTWORK CONSTRUCTION DETAILS



1 **DAMPER ABOVE INACCESSIBLE CEILING**

2 **DAMPER ABOVE LIFT-OUT CEILING**





SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
A	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
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
FS	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FS	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FS	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SDI	SMOKE DETECTOR
S	SWITCH
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
	ELBOW UP
	ELBOW DOWN
	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
PR	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
G.C.	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
CA	COMBUSTION AIR
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

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS
90219
LICENSED
PROFESSIONAL ENGINEER
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

MECHANICAL LEGENDS

Sheet

M4.01

CONSTRUCTION DOCUMENTS

BINDING EDGE

Autodesk Docs://Pasadena ISD Softball Complex/PISD Softball Complex_MEP_Central_R23.rvt

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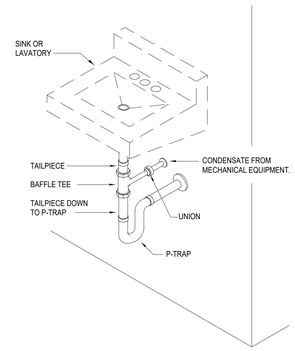
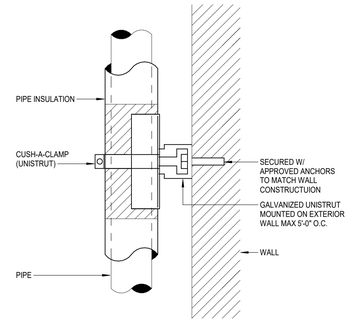
BINDING EDGE



12 **CONDENSATE BAFFLE TEE CONNECTION**
SCALE: NONE



9 **EXTERIOR PIPE MOUNTING DETAIL**
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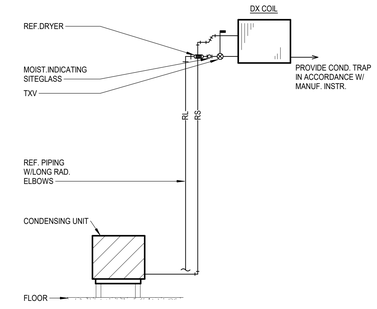
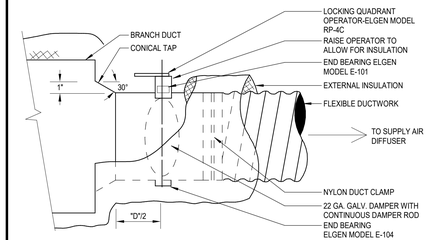
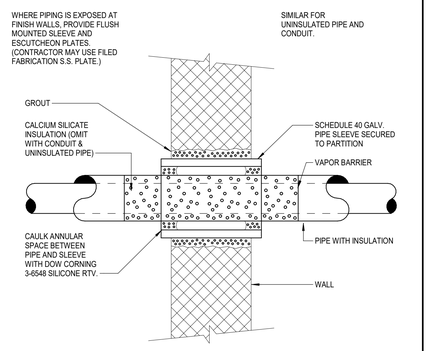


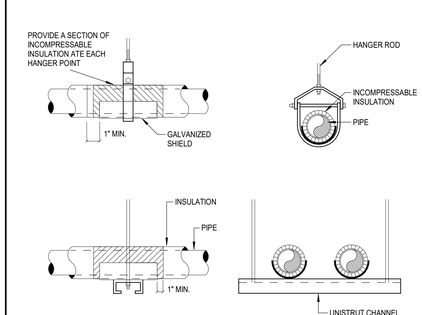
6 **REFRIGERANT PIPING DIAGRAM**
SCALE: NONE



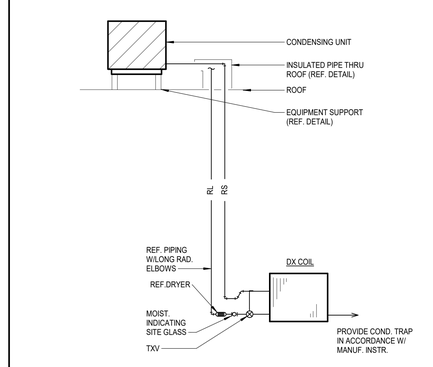
3 **FLEXIBLE DUCT TAP - CONICAL**
SCALE: NONE



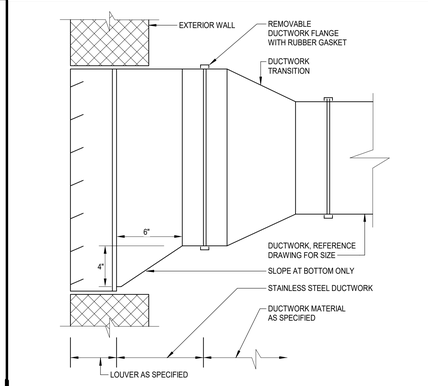
11 **PIPE THRU FIRE RATED WALL**
SCALE: NONE



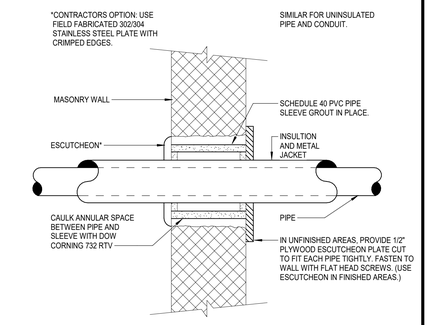
8 **PIPE HANGERS**
SCALE: NONE



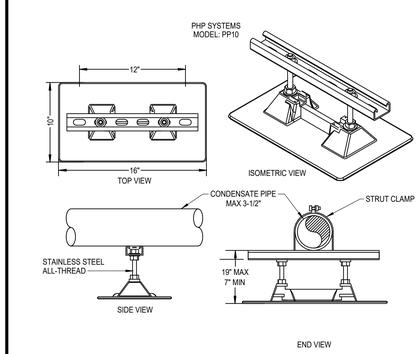
5 **REFRIGERANT PIPING DIAGRAM**
SCALE: NONE



2 **DUCTWORK AT LOUVER**
SCALE: NONE



10 **PIPE THROUGH EXTERIOR WALL**
SCALE: NONE



7 **PIPE SUPPORT**
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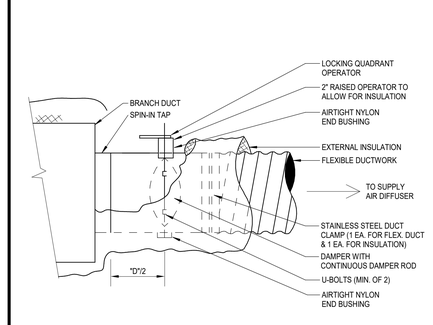
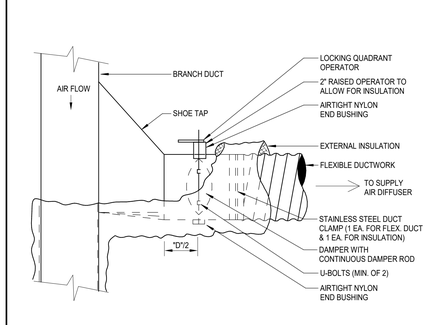


4 **FLEXIBLE DUCT TAP - SPIN-IN**
SCALE: NONE



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

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS — STATE OF TEXAS — 80219 — LICENSED PROFESSIONAL ENGINEER — 11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

MECHANICAL DETAILS

Sheet

M4.02

CONSTRUCTION DOCUMENTS

BINDING EDGE

Autodesk Docs://Pasadena ISD Softball Complex/PISD Softball Complex_MEP_Central_R23.rvt

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BINDING EDGE

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	CURRENT CHAR P	CURRENT CHAR F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
OF-1	DUGOUT A3	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-2	DUGOUT A3	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-3	DUGOUT A1	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-4	DUGOUT A1	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-5	DUGOUT B13	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-6	DUGOUT B13	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-7	DUGOUT B15	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-8	DUGOUT B15	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-9	DUGOUT C3	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-10	DUGOUT C3	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-11	DUGOUT C1	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
OF-12	DUGOUT C1	--	--	1300	0.5	120	1	60	--	TIMER SWITCH	MOUNTED	DIRECT	BIG ASS FANS	AIREYE	6-10
EF-1	WOMENS B005	1360	0.50	1802	0.5	120	1	60	SWITCH	-	INLINE	DIRECT	COOK	SQND	1-4
EF-2	WOMENS B011	1645	0.50	1802	0.5	120	1	60	SWITCH	-	INLINE	DIRECT	COOK	SQND	1-4
EF-3	RR B014	100	0.30	924	0.1	120	1	60	LIGHTS	-	CEILING	DIRECT	COOK	GC	5
EF-4	CONCESSIONS B003	1500	0.50	1802	0.5	120	1	60	SWITCH	-	INLINE	DIRECT	COOK	SQND	1-4
EF-5	CONCESSIONS B003	300	0.50	1802	0.5	120	1	60	SWITCH	-	INLINE	DIRECT	COOK	SQND	1-4

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. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH MOTORIZED DAMPER.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE WITH SPRING ISOLATION. REFER TO MANUFACTURER FOR ADDITIONAL INSTALLATION REQUIREMENTS.
4. PROVIDE WITH EC MOTOR AND FAN SPEED CONTROLLER.
5. PROVIDE CEILING MOUNTING KIT. VIBRATION ISOLATION, BACKDRAFT DAMPER AND FAN SPEED CONTROLLER.
6. INSTALL PER MANUFACTURERS REQUIREMENTS.
7. PROVIDE WITH WALL/COLUMN MOUNTED CONTROLLER.
8. PROVIDE WITH WALL /COLUMN MOUNT KIT.
9. PROVIDE FAN WITH SPEED CONTROLLER AND SWIVEL MOUNT.
10. PROVIDE 2'-0" DIAMETER FAN.

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN SUPPLY AIR CFM	FAN OUTSIDE AIR CFM	FAN EXT.STATIC PRESSURE (IN. W.C.)	FAN HORSE POWER	FAN CURRENT CHARAC. V	FAN CURRENT CHARAC. P	FAN CURRENT CHARAC. F	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	COOLING MIN. SENS. CAPACITY (BTUH)	COOLING MINIMUM EER/ SEER	COOLING NUMBER OF STAGES	HEATING ENTERING AIR TEMP. (°F)	HEATING MINIMUM CAPACITY (BTUH)	HEATING NUMBER OF STAGES	REMARKS
DMS-1	385	0	0.00	0.1	208	1	60	75.0	63.0	11,671	9,148	13.3 /21.3	1	68	11,227	1	1-5,8
DMS-2	450	0	0.00	0.1	208	1	60	75.0	63.0	17,630	12,150	10.7 / 20.2	1	68	13,122	1	1-5,8
DMS-3	490	0	0.00	0.1	208	1	60	75.0	63.0	11,661	10,584	16.4 / 26.9	1	68	14,300	1	1-4,6,8
DMS-4	450	0	0.00	0.1	208	1	60	75.0	63.0	17,630	12,150	13.3 /21.3	1	--	--	--	1-5,7
DMS-5	385	0	0.00	0.1	208	1	60	75.0	63.0	11,671	9,148	13.3 /21.3	1	--	--	--	1-5,7

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. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. POVIDE WITH PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE WALL-MOUNT INDOOR UNIT.
6. PROVIDE CEILING-MOUNT 4-WAY CASSETTE UNIT.
7. PROVIDE COOLING ONLY UNIT.
8. PROVIDE HEAT PUMP UNIT.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	MIN HEAT CAPACITY (BTUH)	MIN COP	CURRENT CHARAC. V	CURRENT CHARAC. PH	CURRENT CHARAC. F	RELATED UNIT MARK	MCA	MOCP	REMARKS
DMSCU-1	11,671	98	13.3 / 21.3	11,221	3.9	208	1	60	DMS-1	16	30	1-3,5
DMSCU-2	17,630	98	10.7 /20.2	13,122	3.4	208	1	60	DMS-2	19	30	1-3,5
DMSCU-3	11,661	98	16.4 / 26.9	14,300	4.9	208	1	60	DMS-3	16	30	1-3,5
DMSCU-4	17,630	98	10.7 /20.2	0	0	208	1	60	DMS-4	19	30	1-4
DMSCU-5	11,671	98	13.3 / 21.3	0	0	208	1	60	DMS-5	16	30	1-4

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 LOW AMBIENT CONTROL DOWN TO 20 DEG. F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS
4. PROVIDE COOLING ONLY UNIT.
5. PROVIDE HEAT PUMP UNIT.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	GRILLE	EXHAUST AIR	-	ALUMINUM	WHITE	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" FACE. PERFERATED FACE.
B	DIFFUSER	SUPPLY AIR	-	ALUMINUM	WHITE	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24" FACE.
C	DIFFUSER	MAKEUP AIR	-	ALUMINUM	WHITE	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24".
D	GRILLE	EXHAUST AIR	-	ALUMINUM	WHITE	TITUS	350FL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED.

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

UNIT HEATER - ELECTRIC

MARK	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHAR. V	CURRENT CHAR. P	CURRENT CHAR. F	CFM	MANUFACTURER	MODEL	REMARKS
EUH-1	17,100	5.0	1	277	1	60	400	MARKEL	5100	1,2
EUH-2	11,200	3.3	1	277	1	60	400	MARKEL	5100	1,2
EUH-3	17,100	5.0	1	277	1	60	400	MARKEL	5100	1,2
EUH-4	17,100	5.0	1	277	1	60	400	MARKEL	5100	1,2
EUH-5	17,100	5.0	1	208	1	60	400	MARKEL	5100	1,2
EUH-6	11,200	3.3	1	208	1	60	400	MARKEL	5100	1,2
EUH-7	17,100	5.0	1	208	1	60	400	MARKEL	5100	1,2
EUH-8	11,200	3.3	1	208	1	60	400	MARKEL	5100	1,2

REMARKS:
1. PROVIDE WITH PENDANT MOUNTED THERMOSTAT.
2. REFER TO MANUFACTURER INSTALLATION GUIDE.

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New Softball Complex

Pasadena, Texas

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BRADLEY KALMANS
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11-10-25

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MECHANICAL SCHEDULES

Sheet

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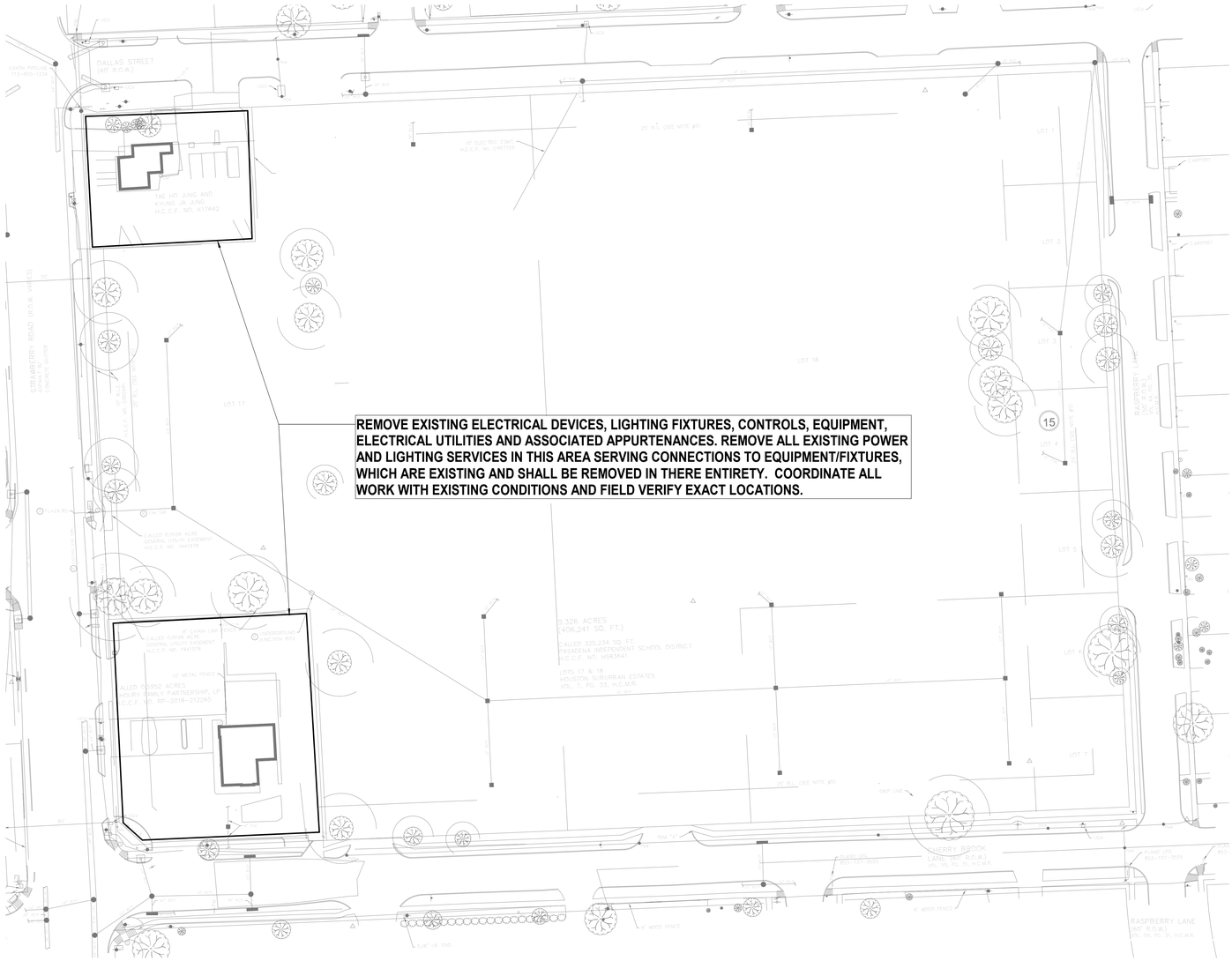

REMOVE EXISTING ELECTRICAL DEVICES, LIGHTING FIXTURES, CONTROLS, EQUIPMENT, ELECTRICAL UTILITIES AND ASSOCIATED APPURTENANCES. REMOVE ALL EXISTING POWER AND LIGHTING SERVICES IN THIS AREA SERVING CONNECTIONS TO EQUIPMENT/FIXTURES, WHICH ARE EXISTING AND SHALL BE REMOVED IN THERE ENTIRETY. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND FIELD VERIFY EXACT LOCATIONS.

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1 **ELECTRICAL DEMOLITION SITE PLAN**
Scale: 1" = 40'-0"

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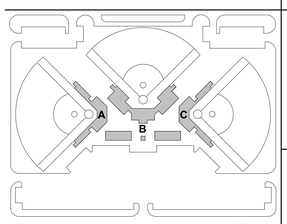

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ELECTRICAL DEMOLITION SITE PLAN

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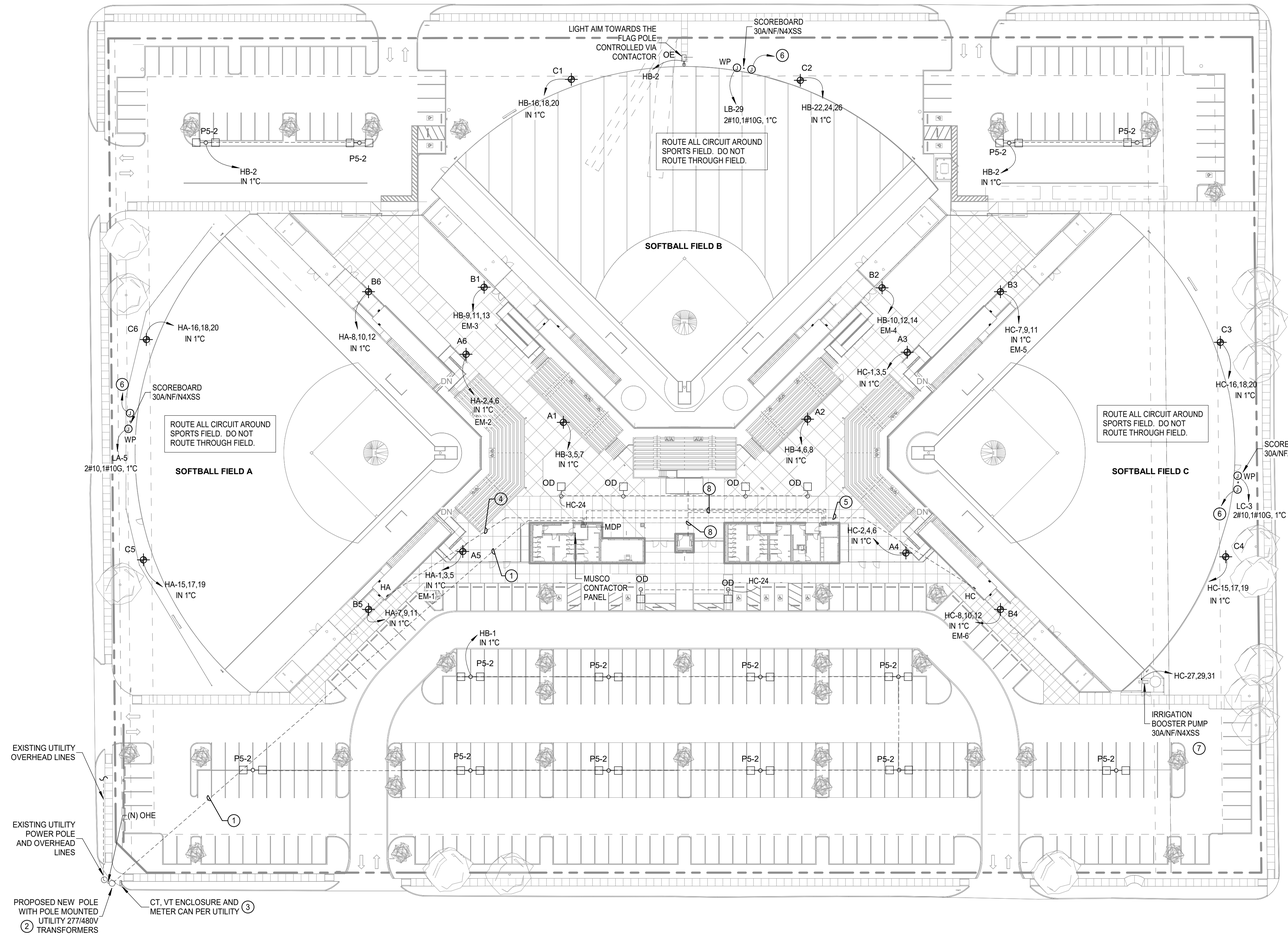
SITE LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
OD	LIGMAN	USM-21031-66W-W40-06-277	GROUND	3297/LED	4000 K	80	277 V	218 W	FLUSH GROUMD MOUNTED LIGHT COLUMN WITH DIE CAST ALUMINIUM BASE.
OE	INVUE	VFS-K-840-5-LED-E1-MSR-BZ-SM-BZ-VFS-4S-BZ	SURFACE	5,900L LED	4000 K	80	277 V	67 W	LED FLOOD LIGHT WITH MEDIUM SYUMETRIC ROUND, NEMA 4X4 OPTIC WITH FOUR SIDED VISOR; 18 IN TALL STANCHION MOUNT; BRONZE FINISH
P5-2	MCGRAW EDISON	GALN-SA4D-740-U-5MQ	POLE MOUNT 2 @ 180	32029L LED	4000 K	80	277 V	436 W	TYPE 5M AREA LUMINAIRE. 30' SQUARE STEEL POLE.



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1 **ELECTRICAL SITE PLAN**
Scale: 1" = 40'-0"

ELECTRICAL GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL CONDUITS WITH ALL OTHER TRADES AND CIVIL PLANS.
2. REFER TO CIVIL PLANS FOR FINAL ROUTING AND DEPTH OF ALL UNDERGROUND UTILITIES.
3. REFER TO TECHNOLOGY SITE PLAN FOR TECHNOLOGY UNDERGROUND CONDUITS AND ROUTING.
4. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL SPORTS LIGHTING POLES WITH ARCHITECT AND CIVIL PLANS PRIOR TO ROUGH-IN.
5. NO SPORTS LIGHTING SPILLAGE OUTSIDE OF THE PROPERTY LINES.

ELECTRICAL KEYED NOTES:

1. UNDERGROUND SERVICE ENTRANCE FEEDERS. DO NOT RUN UNDER ANY BUILDING.REFER TO ONE-LINE DIAGRAM FOR SIZE AND QUANTITY.
2. NEW PROPOSED IN-LINE POWER POLE WITH NEW POLE MOUNTED TRANSFORMERS AS PER UTILITY COMPANY STANDARDS. FINAL LOCATION BY CENTERPOINT ENERGY.
3. NEW CT ENCLOSURE NEMA 4XSS AND METER. REFER TO ONE-LINE DIAGRAM.
4. UNDERGROUND FEEDERS TO PANEL HA FROM MDP.
5. UNDERGROUND FEEDERS TO PANEL HC FROM MDP.
6. 1"C WITH PULL STRING FROM SCOREBOARD TO 2ND LEVEL PRESSBOX FOR CONTROL CABLING. COORDINATE FINAL LOCATION IN FIELD.
7. COORINDATE FINAL LOCATION OF PUMP WITH IRRIGATION DRAWINGS AND IN FIELD PRIOR TO ROUGH-IN. PROVIDE UNI-STRUT FOR DISCONECT SWITCH.
8. 2"C WITH PULL STRING DEDICATED FOR FIRE ALARM CABLING.

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Pasadena, Texas

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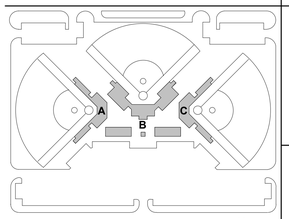

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ELECTRICAL SITE PLAN

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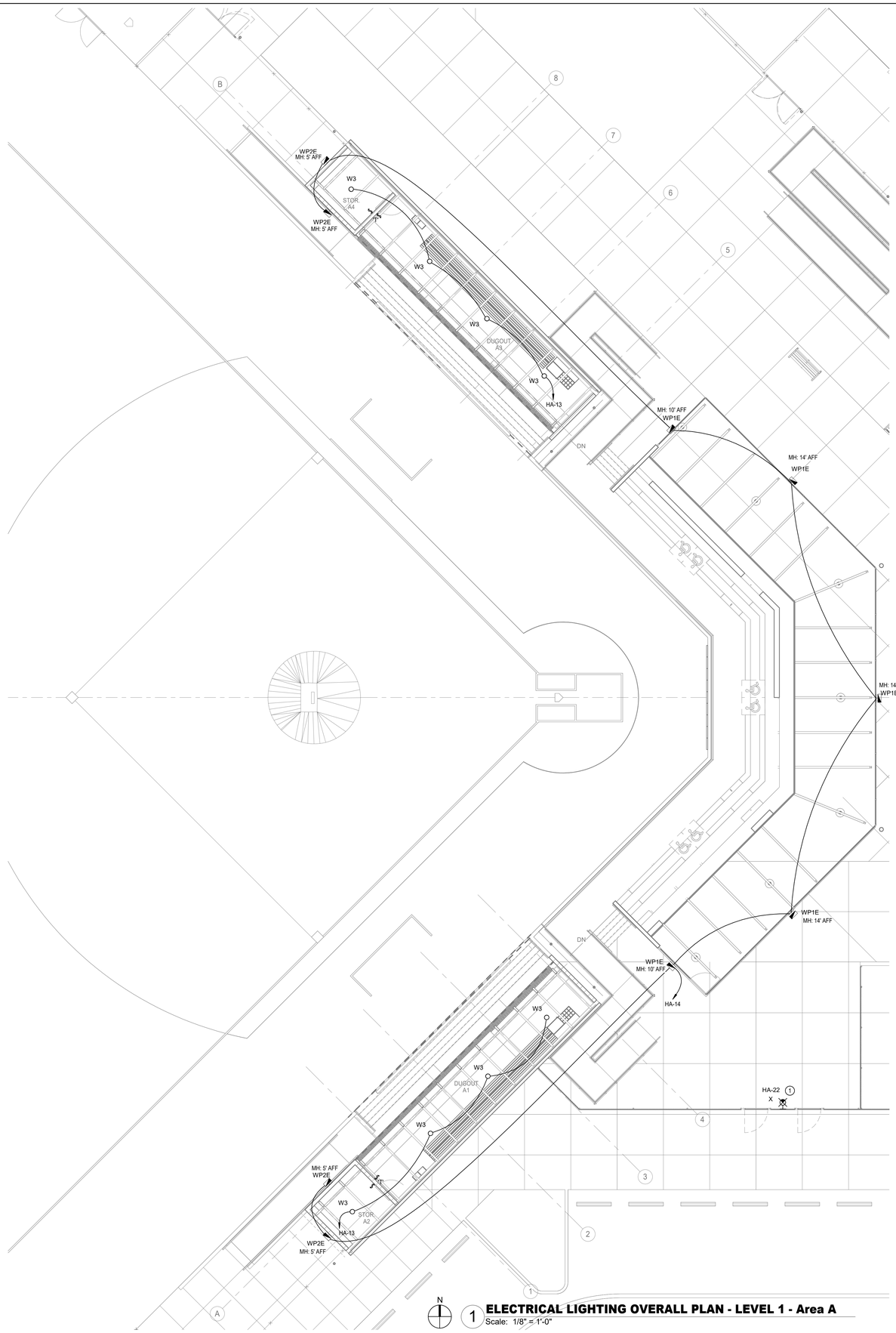

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1 **ELECTRICAL LIGHTING OVERALL PLAN - LEVEL 1 - Area A**
Scale: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES

1. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES IN ALL MECHANICAL, ELECTRICAL, AND DATA CLOSETS WITH PISD.

2. LOCATE CONTACTORS IN ROOM AS PANEL SERVING THE LOAD.

3. OCCUPANCY/VACANCY SENSOR LOCATIONS INDICATES SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2018 C405.

4. LOCATE DIGITAL LIGHTING CONTROLLER ABOVE ACCESSIBLE CEILING 12-FEET AFF JUST ABOVE THE SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND / OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND / OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID BELOW RELAY LOCATION. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE.

5. ALL EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY THE BMCS SYSTEM.

6. CONTRACTOR SHALL MAINTAIN CONSTANT HOT FROM CIRCUIT SHOWN FOR EMERGENCY FIXTURES, GTD's AND EXIT SIGNS.

7. FIXTURES WITH A HATCH OR ENDING WITH THE DESIGNATION "E" ARE ON EMERGENCY BATTERY BACK-UP.

ELECTRICAL KEYED NOTES:

1 MOUNT EXIT SIGN IN MIDDLE OF THE GATE AND RUN CONDUIT ALONG THE POST. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.

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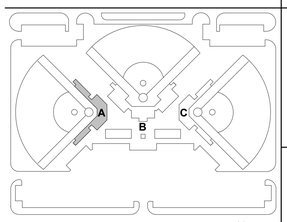

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ELECTRICAL LIGHTING FLOOR PLAN - AREA A

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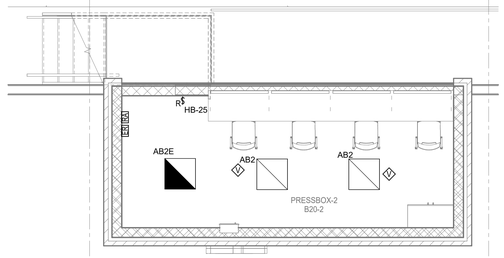

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2 ELECTRICAL LIGHTING OVERALL PLAN - LEVEL 2 - PRESSBOX

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

ELECTRICAL GENERAL NOTES

1. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES IN ALL MECHANICAL, ELECTRICAL, AND DATA CLOSETS WITH PISD.

2. LOCATE CONTACTORS IN ROOM AS PANEL SERVING THE LOAD.

3. OCCUPANCY/VACANCY SENSOR LOCATIONS INDICATES SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2018 C405.

4. LOCATE DIGITAL LIGHTING CONTROLLER ABOVE ACCESSIBLE CEILING 12-FEET AFF JUST ABOVE THE SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND / OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND / OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID BELOW RELAY LOCATION. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE.

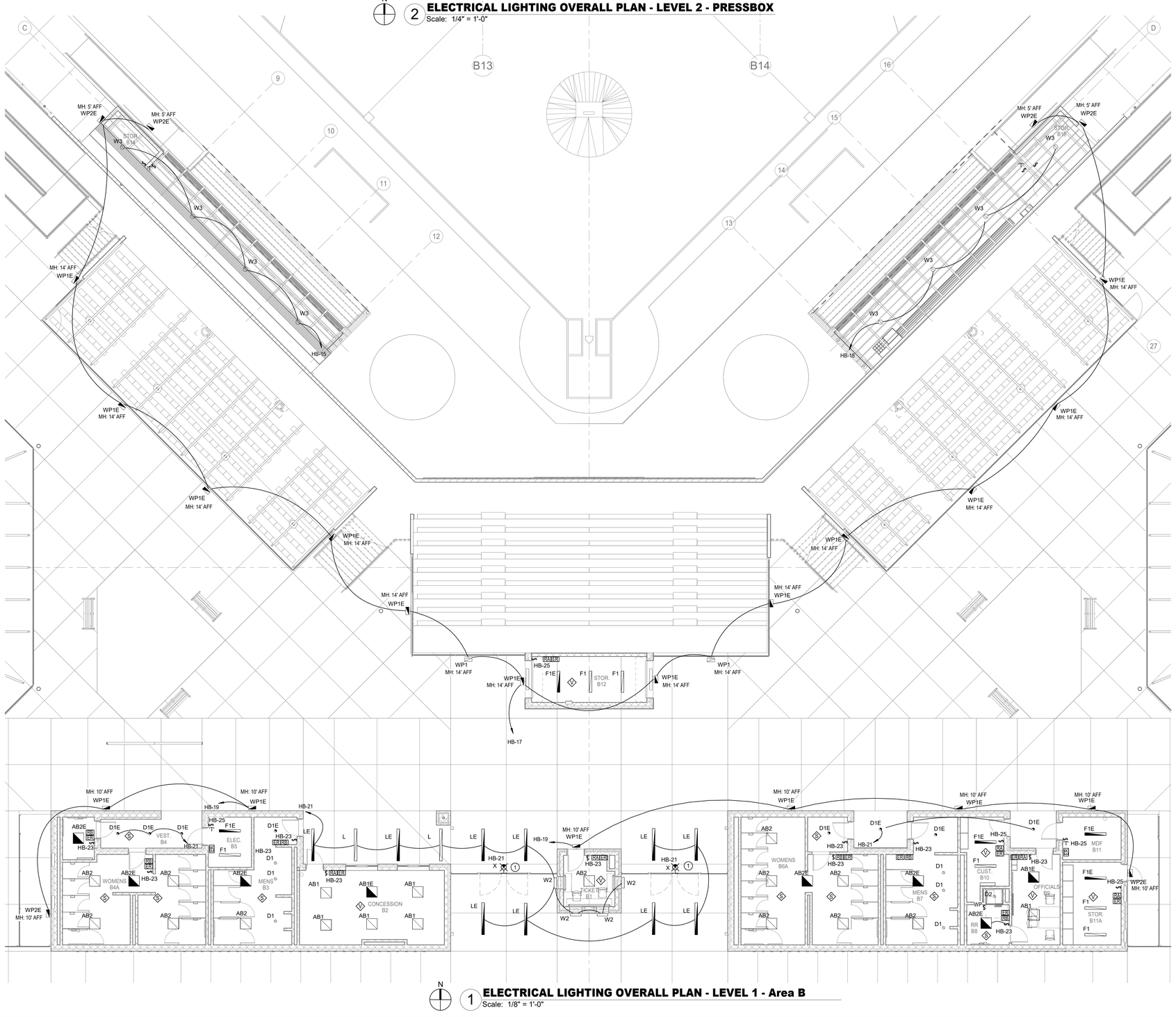
5. ALL EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY THE BMCS SYSTEM.

6. CONTRACTOR SHALL MAINTAIN CONSTANT HOT FROM CIRCUIT SHOWN FOR EMERGENCY FIXTURES, GTD's AND EXIT SIGNS.

7. FIXTURES WITH A HATCH OR ENDING WITH THE DESIGNATION "E" ARE ON EMERGENCY BATTERY BACK-UP.

ELECTRICAL KEYED NOTES:

1. MOUNT EXIT SIGNS FROM UNDER THE CANOPY OVER THE GATE AT 10'-6" AFF. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.



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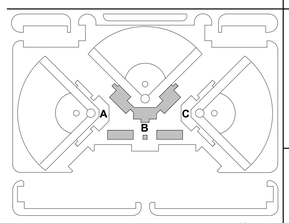
1 ELECTRICAL LIGHTING OVERALL PLAN - LEVEL 1 - Area B

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



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ELECTRICAL LIGHTING FLOOR PLAN - AREA B

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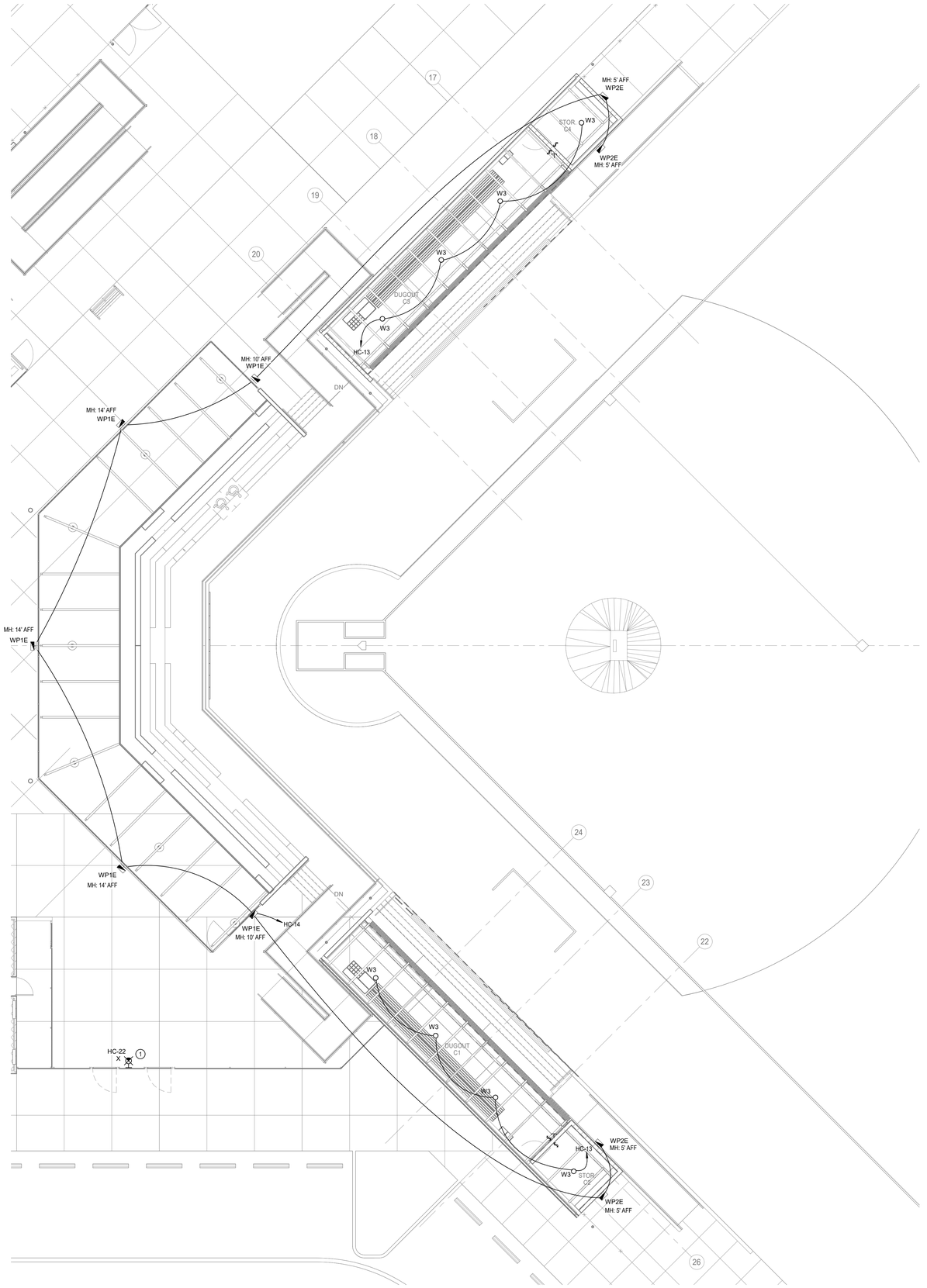

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1 **ELECTRICAL LIGHTING OVERALL PLAN - LEVEL 1 - Area C**

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

ELECTRICAL GENERAL NOTES

1. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES IN ALL MECHANICAL, ELECTRICAL, AND DATA CLOSETS WITH PISD.

2. LOCATE CONTACTORS IN ROOM AS PANEL SERVING THE LOAD.

3. OCCUPANCY/VACANCY SENSOR LOCATIONS INDICATES SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2018 C405.

4. LOCATE DIGITAL LIGHTING CONTROLLER ABOVE ACCESSIBLE CEILING 12-FEET AFF JUST ABOVE THE SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND / OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND / OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID BELOW RELAY LOCATION. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE.

5. ALL EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY THE BMCS SYSTEM.

6. CONTRACTOR SHALL MAINTAIN CONSTANT HOT FROM CIRCUIT SHOWN FOR EMERGENCY FIXTURES, GTD's AND EXIT SIGNS.

7. FIXTURES WITH A HATCH OR ENDING WITH THE DESIGNATION "E" ARE ON EMERGENCY BATTERY BACK-UP.

ELECTRICAL KEYED NOTES:

(1) MOUNT EXIT SIGN IN MIDDLE OF THE GATE AND RUN CONDUIT ALONG THE POST. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.

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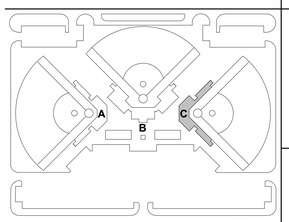

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ELECTRICAL LIGHTING FLOOR PLAN - AREA C

Sheet

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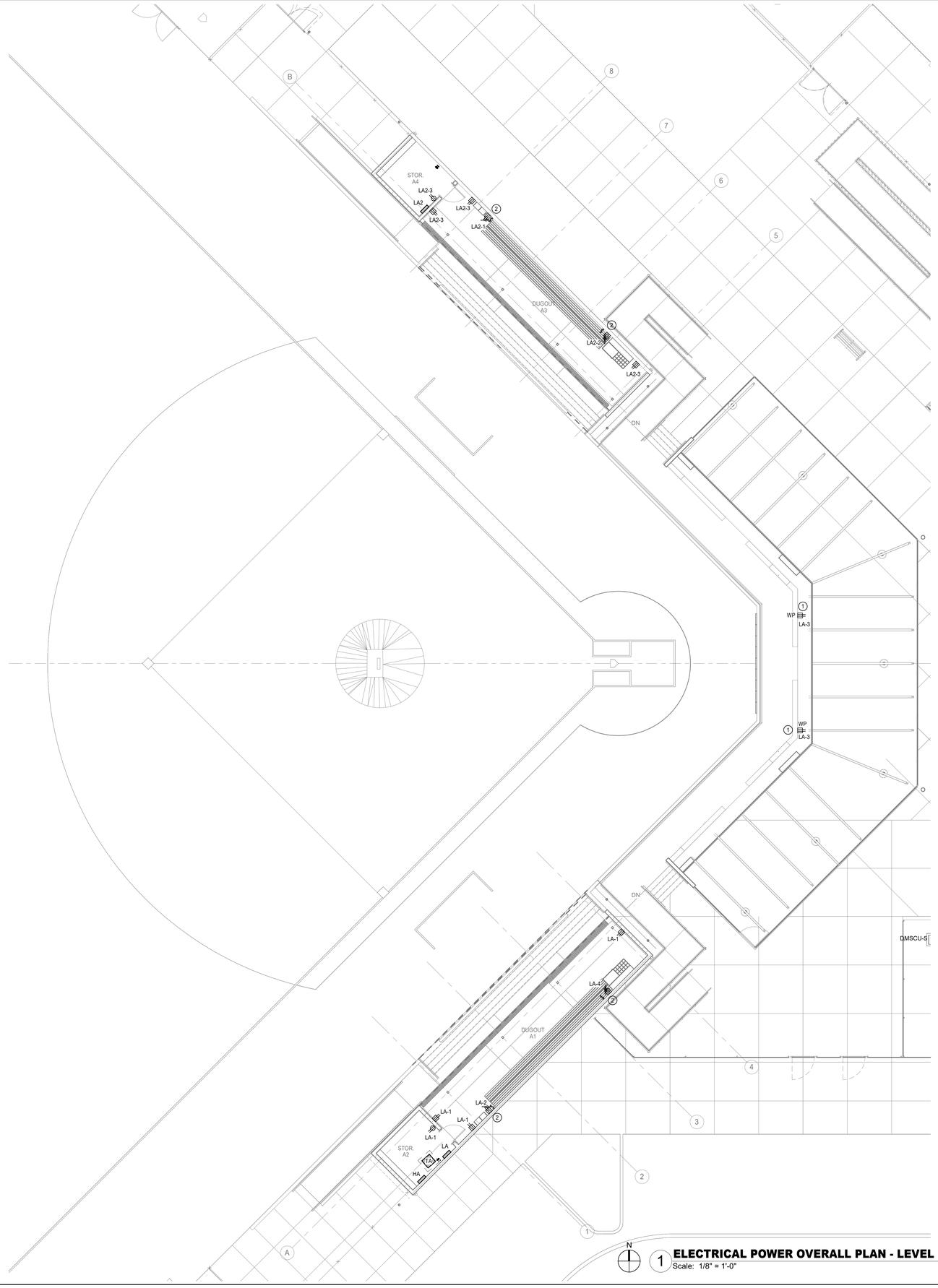

1 **ELECTRICAL POWER OVERALL PLAN - LEVEL 1 - Area A**
Scale: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR HAND DRYER MOUNTING HEIGHT AND LOCATION. COORDINATE J-BOX LOCATION WITH EQUIPMENT MANUFACTURER INSTALLATION INSTRUCTIONS.

2. LOCATE CONTACTORS IN ROOM AS PANEL SERVING THE LOAD.

3. CONTRACTOR AS OF DIVISION 26 TO COORDINATE LOCATION OF ALL TECHNOLOGY ROUGH-INS WITH TECHNOLOGY DRAWINGS.

ELECTRICAL KEYED NOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY DRAWINGS.
2. PROVIDE DUPLEX OUTLET ADJACENT TO THE FAN. COORDINATE EXACT HEIGHT AND LOCATION IN FIELD WITH ARCHITECT. PROVIDE 2-HR TIMER SWITCH FOR FAN.

A LICENSE FIRE ALARM PLANNING SUPERINDENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEM THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND FIRE 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.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
11-10-25

Revision Schedule

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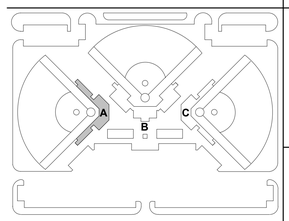

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Title

ELECTRICAL POWER FLOOR PLAN - AREA A

Sheet

E3.01

CONSTRUCTION DOCUMENTS

BINDING EDGE

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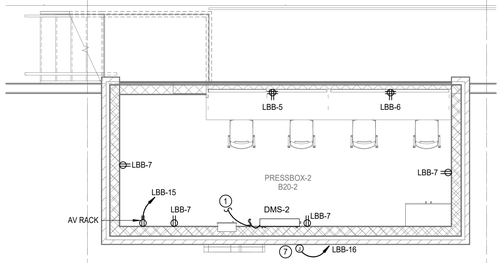

N

2 ELECTRICAL POWER PLAN - PRESSBOX

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

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ELECTRICAL GENERAL NOTES:

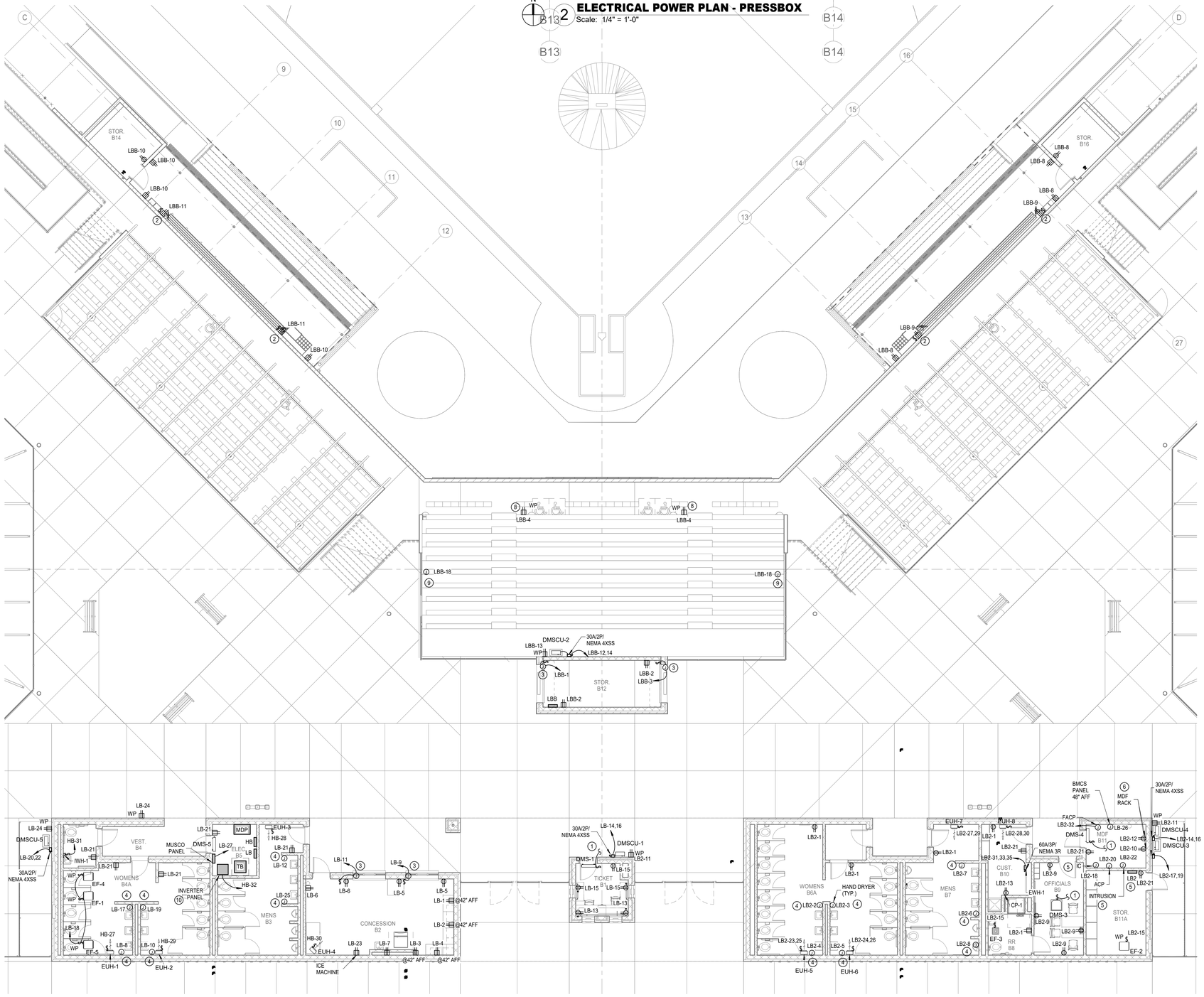
1. REFER TO ARCHITECTURAL DRAWINGS FOR HAND DRYER MOUNTING HEIGHT AND LOCATION. COORDINATE J-BOX LOCATION WITH EQUIPMENT MANUFACTURER INSTALLATION INSTRUCTIONS.

2. LOCATE CONTACTORS IN ROOM AS PANEL SERVING THE LOAD.

3. CONTRACTOR AS OF DIVISION 26 TO COORDINATE LOCATION OF ALL TECHNOLOGY ROUGH-INS WITH TECHNOLOGY DRAWINGS.

ELECTRICAL KEYED NOTES:

1. INDOOR SPLIT UNIT POWERED FROM OUTDOOR SPLIT UNIT. PROVIDE WIRING AS PER MANFACTURER RECOMMENDATION.
2. PROVIDE DUPLEX OUTLET ADJACENT TO THE FAN. COORDINATE EXACT HEIGHT AND LOCATION IN FIELD WITH ARCHITECT. PROVIDE 2-HR TIMER SWITCH FOR FAN.
3. PROVIDE SWITCH AND POWER FOR MOTORIZED ROLL UP DOOR. COORDINATE WITH MANUFACTURER AND PROVIDE RECOMMENDED CONTROL WIRING.
4. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN IN FIELD FOR HAND DRYER.
5. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS.
6. MDF RACK OUTLET TO BE MOUNTED ON TOP. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY DRAWINGS.
7. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT AND NAME LOGO IN FIELD. FACELIT LOGO TO BE CONTROLLED VIA EXTERIOR SITE LIGHTING TIMER.
8. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY DRAWINGS.
9. POWER FOR (2) IRRIGATION CONTROLLERS FOR SOFTBALL AND LANDSCAPE. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
10. PROVIDE EMERGENCY LIGHITNG INVERTER EVENLITE LITEMINDER LM-1000-1P-LC-IB-OB-C-TA OR EQUAL. FLOOR MOUNT ON CONCRETE BASE SHARED WITH TRANSFORMER IN THE ROOM. INVERTER TURNS ON WHEN LOSS OF POWER OF NORMAL LIGHTS.



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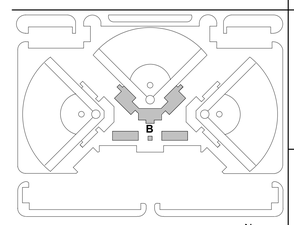
1 ELECTRICAL POWER OVERALL PLAN - LEVEL 1 - Area B

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



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ELECTRICAL POWER FLOOR PLAN - AREA B

Sheet

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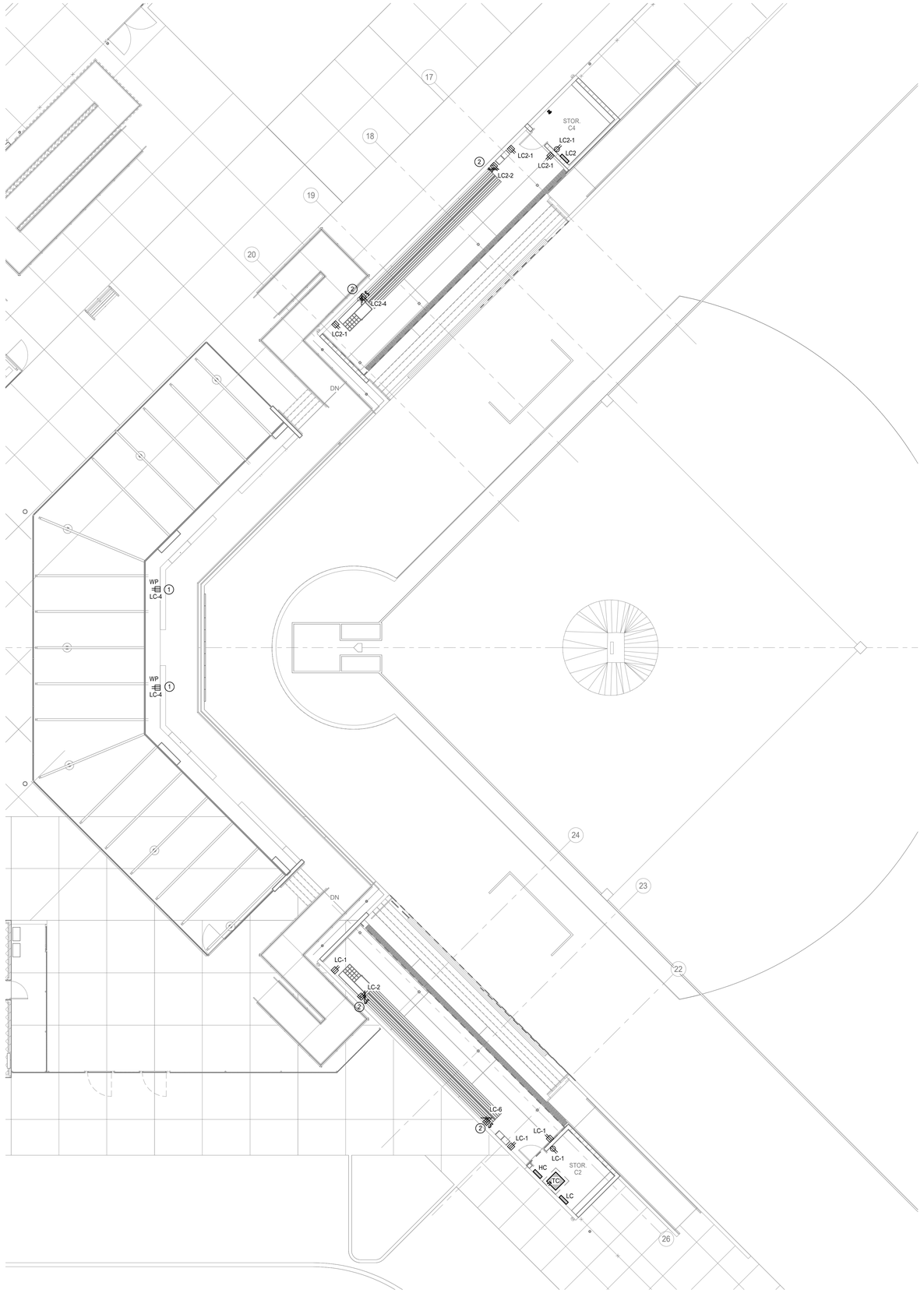

ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR HAND DRYER MOUNTING HEIGHT AND LOCATION. COORDINATE J-BOX LOCATION WITH EQUIPMENT MANUFACTURER INSTALLATION INSTRUCTIONS.

2. LOCATE CONTACTORS IN ROOM AS PANEL SERVING THE LOAD.

3. CONTRACTOR AS OF DIVISION 26 TO COORDINATE LOCATION OF ALL TECHNOLOGY ROUGH-INS WITH TECHNOLOGY DRAWINGS.

ELECTRICAL KEYED NOTES:

(1) COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY DRAWINGS.

(2) PROVIDE DUPLEX OUTLET ADJACENT TO THE FAN. COORDINATE EXACT HEIGHT AND LOCATION IN FIELD WITH ARCHITECT. PROVIDE 2-HR TIMER SWITCH FOR FAN.

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N

1 **ELECTRICAL POWER OVERALL PLAN - LEVEL 1 - Area C**
Scale: 1/8" = 1'-0"

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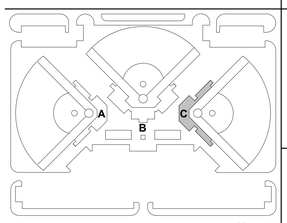
ELECTRICAL POWER FLOOR PLAN - AREA C



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CONSTRUCTION DOCUMENTS

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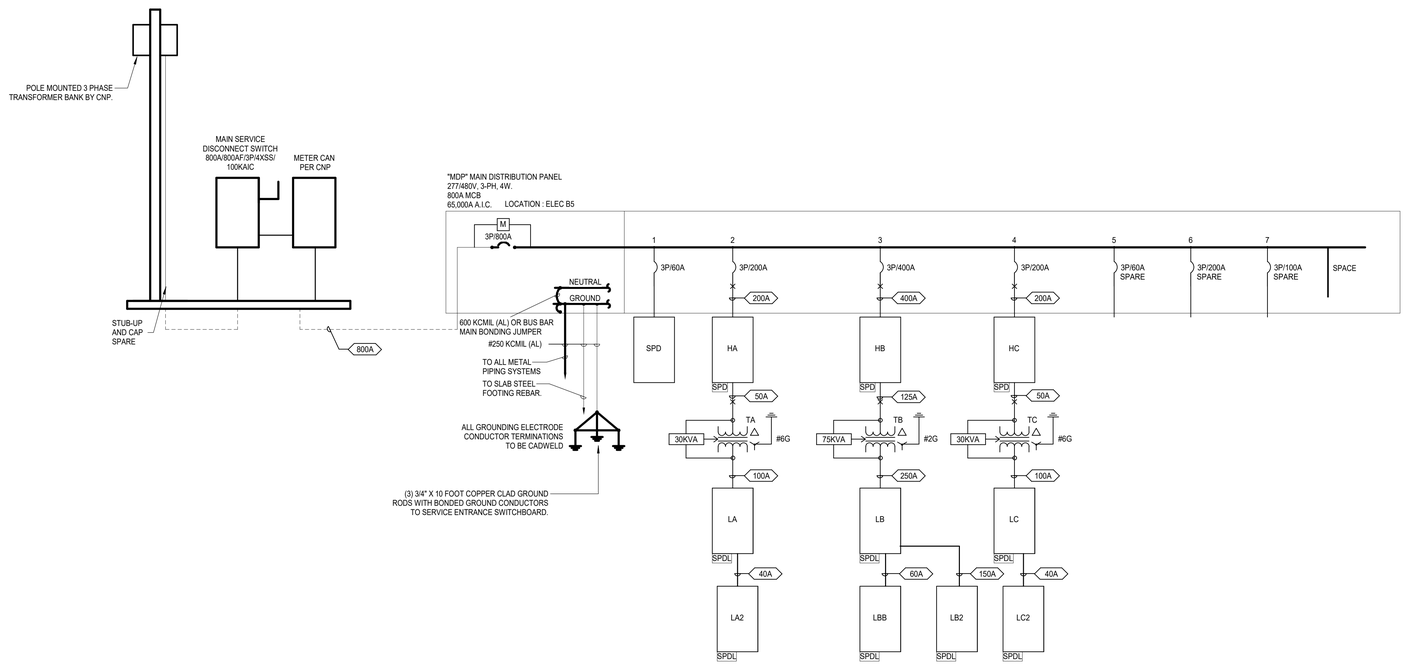

2 ONE LINE DIAGRAM

Scale: ~~N.T.S.~~

FEEDER SCHEDULE

AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
40A	1	(4) #8	#10	3/4"C
50A	1	(4) #6	#10	1"C
60A	1	(4) #4	#10	1-1/4"C
100A	1	(4) #3	#8	1-1/4"C
125A	1	(4) #1	#6	2"C
150A	1	(4) #1/0	#6	2"C
200A	1	(4) #3/0	#6	2-1/2"C
250A	1	(4) #250KCMIL	#4	3"C
400A	2	(4) #3/0	#3	2-1/2"C
800A	3	(4) #300KCMIL	#1/0	3"C

1 CONDUIT QUANTITIES BASED ON 3-PHASE, 4-WIRE SYSTEM; FOR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL OR IS SINGLE PHASE, DEDUCT
2 CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3 GROUND SIZES BASED ON NEC TABLE 250.122 - COPPER.
4 CONDUIT FILL BASED ON NEC ANNEX C - THW CONDUCTOR INSULATION.

TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W)			SECONDARY (208V 3PH 4W)	
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER
30KVA	3#6, 1"C, 1#10G	3P-45A	4#1, 2"C, 1#6G	3P-100A
75KVA	3#1, 1-1/4"C, 1#6G	3P-125A	4#250KCMIL, 3"C, 1#4G	3P-250A

1 CONDUIT QUANTITIES BASED ON 3-PHASE, 4-WIRE SYSTEM; FOR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL OR IS SINGLE PHASE, DEDUCT
2 CONDUCTOR SIZES BASED ON NEC TABLE 310.16 - COPPER 75°.
3 GROUND SIZES BASED ON NEC TABLE 250.122 - COPPER.
4 CONDUIT FILL BASED ON NEC ANNEX C - THW CONDUCTOR INSULATION.

MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDERS AND BRANCH CIRCUITS (2018 IECC 405.9)

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.

INITIAL UTILITY ELECTRICAL SERVICE COORDINATION HAS BEEN COMPLETED BY SALAS O'BRIEN. DURING BID, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE REQUIRED LABOR & MATERIALS THAT ARE NOT INCLUDED IN THE ELECTRICAL UTILITY COMPANY'S SCOPE OF WORK. FINAL UTILITY ELECTRICAL COORDINATION WILL BE FULLY THE CONTRACTOR'S RESPONSIBILITY AND ANY UNCOORDINATED WORK WILL BE AT NO EXPENSE TO OWNER.

ELECTRICAL LOAD ANALYSIS 'MDP'

480V,3PH.,4W

LOAD DESCRIPTION	LOAD KVA
LIGHTING - CALC. 23,700 x 3W x 1.25 (NEC 220.12)	88.9
LIGHTING (CONNECTED) x 1.25 (NEC 215.2)	(111.09)
RECEPTACLES (CONNECTED NEC 220.44)	(14.0)
1ST 10KVA @100% (NEC 220.44)	10.0
REMAINDER @50% (NEC 220.44)	2.0
MISCELLANEOUS (NEC 220)	16.4
HVAC - FANS, AHU'S (NEC 220)	4.6
25% LARGEST MOTOR (0.5HP) (NEC 430.24)	0.14
SPORTS LIGHTING	60.0
TOTAL	182.04

182.04k / 480 / √3 = 219.06 AMPS
800 AMPS SERVICE PROVIDED

UTILITY CONTACT INFORMATION

NAME: KEVIN HARE

PHONE: 713-945-7878

EMAIL: KEVIN.HARE@CENTERPOINTENERGY.COM

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Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER

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ELECTRICAL ONE-LINE DIAGRAM

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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
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
	20 AMP GENERATOR TRANSFER DEVICE
LOW VOLTAGE LIGHTING CONTROLS	
$R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
$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
	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
[R]	REMOTE BLANK FACE GFCI DEVICE.
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
J	DISCONNECT SWITCH AS REQUIRED
J	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
	MOTOR STARTER
M	MANUAL MOTOR SWITCH AS REQUIRED
	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
•	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.

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
AB1	METALUX	22FP4240C	RECESSED	4280L LED	4000 K	80	277 V	38 W	2'X2' LED TROFFER
AB1E	METALUX	22FP4240C-EL14W	RECESSED	4280L LED	4000 K	80	277 V	38 W	2'X2' LED TROFFER. WITH 90MIN EMERGENCY BATTERY PACK.
AB2	METALUX	22FP3240C	RECESSED	3560L LED	4000 K	80	277 V	30 W	2'X2' LED TROFFER
AB2E	METALUX	22FP3240C-EL14W	RECESSED	3560L LED	4000 K	80	277 V	30 W	2'X2' LED TROFFER. WITH 90MIN EMERGENCY BATTERY PACK.
D1	HALO	HC6-15-D010-HM60525840-61MDH	RECESSED	4967L LED	4000 K	80	277 V	40 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT.
D1E	HALO	HC6-15-D010-IEM14-HM60525840-61MDH	RECESSED	4967L LED	4000 K	80	277 V	40 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT WITH 90MIN EMERGENCY BATERY PACK.
D2	HALO	HC4-10-D010-HM60525840	RECESSED	1000L LED	4000 K	80	277 V	40 W	4-INCH MEDIUM BEAM DOWNLIGHT, WET LOCATION RATED.
F1	METALUX	4SNLED-LD5-41SL-LW-UNV-L840-CD1-U + AYC-Chain/Set	SURFACE / PENDANT	6000L LED	4000 K	80	277 V	50 W	4' LENSED LED STRIPLIGHT WITH WIREGUARD AND 0-10V DIMMING DRIVER.
F1E	METALUX	4SNLED-LD5-41SL-LW-UNV-L840-CD1-U + AYC-Chain/Set	SURFACE / PENDANT	6000L LED	4000 K	80	277 V	50 W	4' LENSED LED STRIPLIGHT WITH WIREGUARD AND 0-10V DIMMING DRIVER, WITH 90MIN EMERGENCY BATTERY PACK.
L	NULITE	RXT-F-D-FF-10L-40-UNV-D-1-1-6	RECESSED	5,000L LED	4000 K	80	277 V	70 W	1'X6' RECESSED LED WITH 0-10V DIMMING DRIVER WITH DRYWALL KIT. WITH 90MIN EMERGENCY BATTERY PACK.
LE	NULITE	RXT-F-D-FF-10L-40-UNV-D-1-1-B15-6	RECESSED	3,000L LED	4000 K	80	277 V	70 W	1'X6' RECESSED LED WITH 0-10V DIMMING DRIVER WITH DRYWALL KIT.
OD	LIGMAN	USM-21031-66W-W40-06-277	GROUND	3297LED	4000 K	80	277 V	218 W	FLUSH GROUMD MOUNTED LIGHT COLUMN WITH DIE CAST ALUMINUM BASE.
OE	INVUE	VFS-K-840-S-LED-E1-MSR-BZ-SM-BZ-VFS-4S-BZ	SURFACE	5,900L LED	4000 K	80	277 V	67 W	LED FLOOD LIGHT WITH MEDIUM SYUMETRIC ROUND, NEMA 4X4 OPTIC WITH FOUR SIDED VISOR; 18 IN TALL STANCHION MOUNT; BRONZE FINISH
P5-2	MCGRAW EDISON	GALN-S4AD-740-U-5MQ	POLE MOUNT 2 @ 180	32029L LED	4000 K	80	277 V	436 W	TYPE SM AREA LUMINAIRE. 30' SQUARE STEEL POLE.
W2	NULITE	RXT-W-D-FF-07L40-6	SURFACE	2,869L LED	4000 K	80	277 V	16 W	NOMINAL 4" x 4' LINEAR 0-10V DIMMING DRIVER TO 1%. COORDINATE WITH ARCHITECT PLANS
W3	LUMARK	CLCS15	SURFACE	4967L LED	4000 K	80	277 V	40 W	10-INCH MEDIUM BEAM OPEN DOWNLIGHT.
WP1	LUMARK	XTOR3B-W-AP	WALL	2710L LED	4000 K	80	277 V	26 W	MOUNT FIXTURE AT +14'-0" AFF
WP1E	LUMARK	XTOR3B-W-AP	WALL	2710L LED	4000 K	80	277 V	26 W	MOUNT FIXTURE AT +14'-0" AFF. WITH 90MIN EMERGENCY BATTERY PACK.
WP2E	LUMARK	XTOR3B-W-BZ	WALL	2710L LED	4000 K	80	277 V	26 W	MOUNT FIXTURE AT +10'-0" AFF. WITH 90MIN EMERGENCY BATTERY PACK.
X	SURELITES	EDGELIT EXIT	WALL/RECESSED	LED		0	277 V	3 W	UNIVERSAL LED EXIT SIGN MOUNTED WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

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 FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "X" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AX, C2X, FX") SHALL BE THE BASE FIXTURE TYPE CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITIONAL INFORMATION.

14 FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "A" FOLLOWING THE BASE DESIGNATION (I.E - A FIXTURE T YPE "A1A, C2A, FA") SHALL BE THE BASE FIXTURE TYPE EXCEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND 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.

15 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.

16 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.

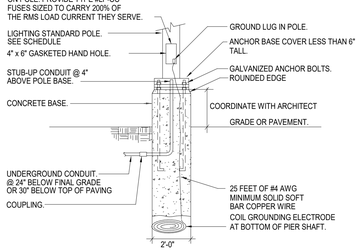
SPORTS LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	MUSCO	(3)TLC-LED-900, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	11100 W	MUSCO LIGHTS ON 70' POLE
A2	MUSCO	(3)TLC-LED-900, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 70' POLE
A3	MUSCO	(3)TLC-LED-900, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
A4	MUSCO	(3)TLC-LED-900, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
A5	MUSCO	(3)TLC-LED-900, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
A6	MUSCO	(3)TLC-LED-900, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
B1	MUSCO	(3)TLC-LED-600, (2)TLC-LED-900	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
B2	MUSCO	(3)TLC-LED-600, (2)TLC-LED-900	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
B3	MUSCO	(3)TLC-LED-600, (2)TLC-LED-900	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
B4	MUSCO	(3)TLC-LED-600, (2)TLC-LED-900	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
B5	MUSCO	(3)TLC-LED-600, (2)TLC-LED-900	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
B6	MUSCO	(3)TLC-LED-600, (2)TLC-LED-900	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 60' POLE
C1	MUSCO	(4)TLC-LED-600, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 50' POLE
C2	MUSCO	(4)TLC-LED-600, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 50' POLE
C3	MUSCO	(4)TLC-LED-600, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 50' POLE
C4	MUSCO	(4)TLC-LED-600, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 50' POLE
C5	MUSCO	(4)TLC-LED-600, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 50' POLE
C6	MUSCO	(4)TLC-LED-600, (1)TLC-LED-575	POLE MOUNT	LED		0	480 V	5500 W	MUSCO LIGHTS ON 50' POLE

LIGHTING CONTROLS SCHEDULE

Type	Sensor Operation	# of Total Zones	Description
RA	VACANCY - MANUAL ON / AUTO OFF	1	ON/OFF SWITCH; 0-10V DIMMING. 30MIN TIMEOUT.
RB	OCCUPANY - MANUAL ON / AUTO OFF	3	ON/OFF SWITCH. NO DIMMING.30MIN TIMEOUT.
ER	-	-	UL924 LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM

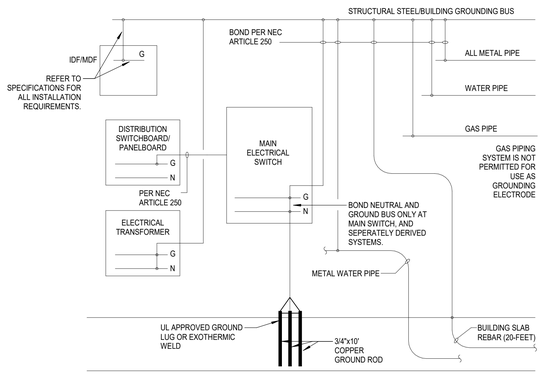
FURNISH AND INSTALL BUSSMAN
TRON IN-LINE WEATHERPOOF
FUSE HOLDERS #HEZ-AW-RYC
(OR EQUIVALENT) FOR EACH HEAD
ON POLE. PROVIDE TYPE #LP-CC
FUSES SIZED TO CARRY 200% OF
THE RMS LOAD CURRENT THEY SERVE.



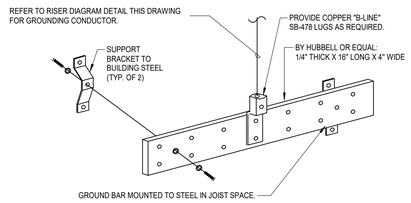
NOTE:

COORDINATE WITH ARCHITECT/STRUCTURAL ENGINEER FOR POLE BASE CONCRETE WORK.

1 ELECTRICAL REQUIREMENTS AT POLE BASE
Scale: NOT TO SCALE

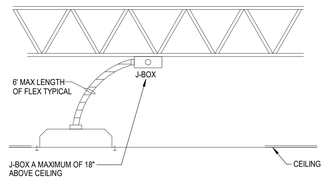


2 SYSTEM GROUNDING DETAIL
Scale: NOT TO SCALE

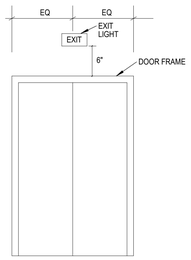


NOTICE TO BIDDERS:
GROUND BAR IS A LONG LEAD ITEM. COORDINATE DELIVERY DATE WITH CONSTRUCTION TIMELINE SO AS NOT TO DELAY CABLING INSTALLATION.

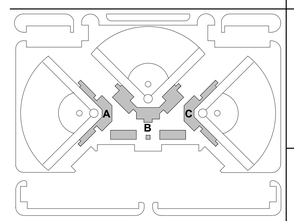
3 GROUND BAR DETAIL
Scale: N.T.S.



5 TYPICAL LIGHTING FIXTURE WIRING DETAIL
Scale: NOT TO SCALE



4 TYPICAL EXIT SIGN LOCATION
Scale: NOT TO SCALE



N
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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	SA
Checked	JZ
Approved	MS

Title

ELECTRICAL DETAILS, AND SCHEDULES

Sheet

E5.01

CONSTRUCTION DOCUMENTS

BINDING EDGE

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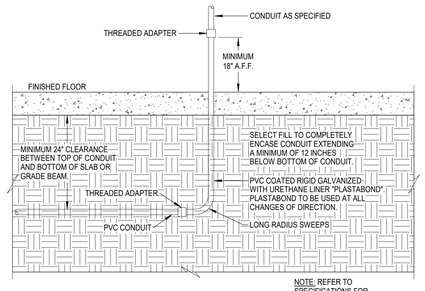
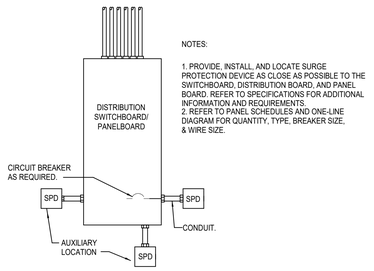
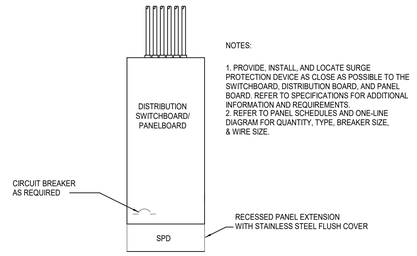
BINDING EDGE



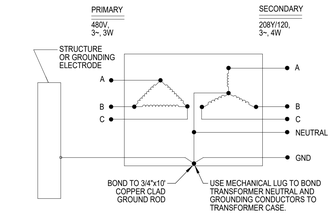
4 CONDUIT BELOW BUILDING SLAB
Scale: NOT TO SCALE



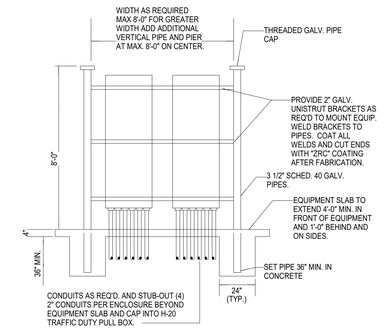
3 SURGE PROTECTION DEVICE DETAIL
Scale: NOT TO SCALE



2 RECESSED SURGE PROTECTION DEVICE DETAIL
Scale: NOT TO SCALE



1 GROUNDING FOR TRANSFORMERS
Scale: NOT TO SCALE



5 ELECTRICAL EQUIPMENT RACK DETAIL
Scale: NOT TO SCALE

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New Softball Complex

Pasadena, Texas

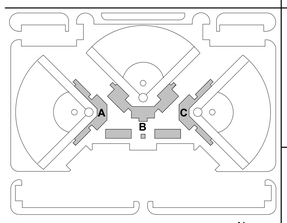
PASADENA INDEPENDENT SCHOOL DISTRICT



Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	SA
Checked	Checker
Approved	Approver



Title

ELECTRICAL DETAILS

Sheet

E5.02

CONSTRUCTION DOCUMENTS

BINDING EDGE

Autodesk Docs://Pasadena ISD Softball Complex/PISD Softball Complex_MEP_Central_R23.rvt

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BINDING EDGE

Branch Panel: HA

Location: STOR. A2 **Volts:** 277/480 Wye **A.I.C. Rating:** 65,000
Supply From: MDP **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					2.8 / 2.8							2	
	3	SOFTBALL A FIELD LIGHTING	#8	40	3		2.8 / 2.8		3	40	#8	SOFTBALL A FIELD LIGHTING	4	
	5							2.8 / 2.8					6	
	7					9.9 / 9.9							8	
	9	SOFTBALL A FIELD LIGHTING	#8	40	3		9.9 / 9.9		3	40	#8	SOFTBALL A FIELD LIGHTING	10	
	11							9.9 / 9.9					12	
	13	SOFTBALL FIELD LIGHTING	#12	20	1	0.3 / 0.2			1	20	#12	EXTERIOR WALL PACKS	14	
	15						9.7 / 9.7						16	
	17	SOFTBALL A FIELD LIGHTING	#8	40	3			9.7 / 9.7	3	40	#8	SOFTBALL A FIELD LIGHTING	18	
	19					9.7 / 9.7							20	
--	21	SPARE	--	20	1		0.0 / 0.0		1	20	#12	EXIT SIGNS	22	
--	23	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	24	--
--	25	SPACE	--	20	1	0.0 / 0.0			1	--	--	SPACE	26	--
--	27	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	28	--
--	29	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	36	--
	37					1.3 / 0.0							38	
	39	PANEL LA VIA TA	1-L	70	3		1.3 / 0.0		3	30	--	SPD	40	--
	41							1.5 / 0.0					42	
		Total Load:				46.7 kVA	46.1 kVA	46.4 kVA						
		Total Amps:				169 A	167 A	167 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0.6 kVA	125.00%	0.7 kVA		
Miscellaneous	1.5 kVA	100.00%	1.5 kVA	**Total Conn. Load:**	139.2 kVA
Other	134.6 kVA	100.00%	134.6 kVA	**Total Est. Demand:**	139.3 kVA
Receptacles	2.5 kVA	100.00%	2.5 kVA	**Total Conn. Current:**	167 A
				Total Est. Demand Current:	168 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: HB

Location: ELEC. B5 **Volts:** 277/480 Wye **A.I.C. Rating:** 65,000
Supply From: MDP **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 400A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
	1	PARKING LOT SITE LITG.	#10	20	1	4.4 / 1.8			1	20	#10	NORTH PARKING LOT SITE LITG.	2	
	3						0.2 / 3.7						4	
	5	SOFTBALL B FIELD LIGHTING	#8	40	3			0.2 / 3.7	3	40	#8	SOFTBALL B FIELD LIGHTING	6	
	7					0.2 / 3.7							8	
	9						9.7 / 9.7						10	
	11	SOFTBALL B FIELD LIGHTING	#8	40	3			9.7 / 9.7	3	40	#8	SOFTBALL B FIELD LIGHTING	12	
	13					9.7 / 9.7							14	
	15	DUGOUT LIGHTING	#12	20	1		0.3 / 9.7						16	
	17	FIELD B WALL PACKS	#12	20	1			0.5 / 9.7	3	40	#8	SOFTBALL B FIELD LIGHTING	18	
	19	FIELD B WALL PACKS	#12	20	1	0.2 / 9.7							20	
	21	CONCESSIONS EXTERIOR LIGHTING	#12	20	1		1.1 / 9.7						22	
	23	CONCESSIONS LIGHTING	#12	20	1			1.2 / 9.7	3	40	#8	SOFTBALL B FIELD LIGHTING	24	
	25	CONCESSIONS LIGHTING	#12	20	1	0.6 / 9.7							26	
	27	EUH-1 WOMENS B4A	#12	20	1		5.0 / 5.0		1	20	#12	EUH-3 MENS B3	28	
	29	EUH-2 WOMENS B4A	#12	20	1			3.3 / 5.0	1	20	#12	EUH-4 CONCESSION B2	30	
	31	IWH-1	#12	20	1	4.1 / 0.0			1	20	#12	EM INVERTER	32	
	33						0.0 / 0.0		1	20	--	SPARE	34	--
--	35	SPARE	--	20	3			0.0 / 0.0	1	20	--	SPARE	36	--
--	39	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	40	--
--	41	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	42	--
	43					23.8 / 0.0							44	
	45	PANEL LB VIA XFMR TB	1-L	70	3		23.3 / 0.0		3	30	--	SPD	46	--
	47							28.5 / 0.0					48	
		Total Load:				77.5 kVA	77.3 kVA	81.1 kVA						
		Total Amps:				280 A	279 A	293 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	20.8 kVA	100.00%	20.8 kVA		
Heating	34.9 kVA	100.00%	34.9 kVA	**Total Conn. Load:**	235.8 kVA
Lighting	10.7 kVA	125.00%	13.3 kVA	**Total Est. Demand:**	237.5 kVA
Miscellaneous	30.0 kVA	100.00%	30.0 kVA	**Total Conn. Current:**	284 A
Other	127.6 kVA	100.00%	127.6 kVA	**Total Est. Demand Current:**	286 A
Receptacles	11.9 kVA	92.09%	10.9 kVA		

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: LA

Location: STOR. A2 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TA **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles Room A002, A001	#12	20	1	0.7 / 0.2			1	20	#12	DUGOUT FANS REC.	2	
	3	TECHNOLOGY FOR SOFTBALL	#12	20	1		0.4 / 0.2		1	20	#12	DUGOUT FANS REC.	4	
	5	SCOREBOARD	#10	20	1			1.5 / 0.0	1	20	--	SPARE	6	--
--	7	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	8	--
--	9	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	10	--
--	11	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	12	--
--	13	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	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	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	20	--
--	21	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	22	--
--	23	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	24	--
--	25	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	26	--
--	27	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	28	--
--	29	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	36	--
	37					0.0 / 0.4							38	
--	39	SPD	--	30	3		0.0 / 0.7		3	40	1-L	PANEL LA2	40	
	41							0.0 / 0.0					42	
		Total Load:				1.3 kVA	1.3 kVA	1.5 kVA						
		Total Amps:				11 A	11 A	13 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	1.5 kVA	100.00%	1.5 kVA		
Receptacles	2.5 kVA	100.00%	2.5 kVA	**Total Conn. Load:**	4.0 kVA
				Total Est. Demand:	4.0 kVA
				Total Conn. Current:	11 A
				Total Est. Demand Current:	11 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: HC

Location: STOR. C2 **Volts:** 277/480 Wye **A.I.C. Rating:** 65,000
Supply From: MDP **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					2.8 / 2.8							2	
	3	SOFTBALL C FIELD LIGHTING	#8	40	3		2.8 / 2.8		3	40	#8	SOFTBALL C FIELD LIGHTING	4	
	5							2.8 / 2.8					6	
	7					9.9 / 9.9							8	
	9	SOFTBALL C FIELD LIGHTING	#8	40	3		9.9 / 9.9		3	40	#8	SOFTBALL C FIELD LIGHTING	10	
	11							9.9 / 9.9					12	
	13	SOFTBALL FIELD LIGHTING	#12	20	1	0.3 / 0.2			1	20	#12	EXTERIOR WALL PACKS	14	
	15						9.7 / 9.7						16	
	17	SOFTBALL C FIELD LIGHTING	#8	40	3			9.7 / 9.7	3	40	#8	SOFTBALL C FIELD LIGHTING	18	
	19					9.7 / 9.7							20	
--	21	SPARE	--	20	1		0.0 / 0.0		1	20	#12	EXIT SIGNS	22	
--	23	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	24	--
--	25	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	26	--
	27						2.1 / 0.0		1	--	--	SPACE	28	--
	29	IRRIGATION BOOSTER PUMP	#12	20	3			2.1 / 0.0	1	--	--	SPACE	30	--
	31					2.1 / 0.0			1	--	--	SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	36	--
	37					1.8 / 0.0							38	
	39	PANEL LC VIA TC	1-L	70	3		2.0 / 0.0		3	30	--	SPD	40	--
	41							0.2 / 0.0					42	
		Total Load:				49.3 kVA	49.0 kVA	47.1 kVA						
		Total Amps:				179 A	178 A	170 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0.6 kVA	125.00%	0.7 kVA		
Miscellaneous	7.8 kVA	100.00%	7.8 kVA	**Total Conn. Load:**	145.5 kVA
Other	134.6 kVA	100.00%	134.6 kVA	**Total Est. Demand:**	145.6 kVA
Receptacles	2.5 kVA	100.00%	2.5 kVA	**Total Conn. Current:**	175 A
				Total Est. Demand Current:	175 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: LB

Location: ELEC. B5 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TB **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 250A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles CONCESSION B003	#12	20	1	0.2 / 0.2			1	20	#12	Receptacles CONCESSION B003	2	
	3	Receptacles CONCESSION B003	#12	20	1		0.2 / 0.2		1	20	#12	Receptacles CONCESSION B003	4	
	5	Receptacles CONCESSION B003	#12	20	1			0.4 / 0.4	1	20	#12	Receptacles CONCESSION B003	6	
G	7	Receptacles CONCESSION B003	#12	20	1	0.2 / 0.5			1	20	#12	HAND DRYER WOMEN'S B005	8	
	9	MOTORIZED ROLLUP DOOR	#12	20	1		0.5 / 0.5		1	20	#12	HAND DRYER WOMEN'S B005	10	
	11	MOTORIZED ROLLUP DOOR	#12	20	1			0.5 / 0.5	1	20	#12	HAND DRYER MENS B004	12	
	13	Receptacles TICKET B001	#12	20	1	0.4 / 1.1			2	30	#10	OUTDOOR SPLIT UNIT DMSCU-1	14	
	15	Receptacles TICKET B001	#12	20	1		0.5 / 1.1						16	
	17	HAND DRYER WOMEN'S B005	#12	20	1			0.5 / 3.5	1	30	#12	EF -1, EF-4, EF-5	18	
	19	HAND DRYER WOMEN'S B005	#12	20	1	0.5 / 1.1			2	30	#10	OUTDOOR SPLIT UNIT DMSCU-5	20	
	21	Receptacles Room B002, B004, B005	#12	20	1		0.9 / 1.1						22	
G	23	ICE MACHINE	#12	20	1			0.2 / 0.4	1	20	#12	EXTERIOR RECEPTACLES	24	
	25	HAND DRYER MENS B004	#12	20	1	0.5 / 0.5			1	20	#12	BMCS PANEL	26	LO
	27	MUSCO PANEL B	#12	20	1		0.5 / 0.0		1	20	--	SPARE	28	--
	29	SCOREBOARD	#6	20	1			1.5 / 0.0	1	20	--	SPARE	30	--
--	31	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	32	--
--	33	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	34	--
--	35	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	36	--
--	37	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	38	--
--	39	SPACE	--	--	1		0.0 / 0.0		1	20	--	SPARE	40	--
--	41	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	42	--
--	43	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	44	--
--	45	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	46	--
--	47	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	48	--
	49					3.6 / 15.0							50	
	51	PANEL LBB	1-L	60	3		2.6 / 15.1		3	150	1-L	PANEL LB2	52	
	53							4.2 / 16.5					54	
		Total Load:				23.8 kVA	23.3 kVA	28.5 kVA						
		Total Amps:				199 A	194 A	238 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	16.7 kVA	100.00%	16.7 kVA		
Heating	16.6 kVA	100.00%	16.6 kVA	**Total Conn. Load:**	75.7 kVA
Lighting	0.5 kVA	125.00%	0.6 kVA	**Total Est. Demand:**	74.8 kVA
Miscellaneous	30.0 kVA	100.00%	30.0 kVA	**Total Conn. Current:**	210 A
Receptacles	11.9 kVA	92.09%	10.9 kVA	**Total Est. Demand Current:**	208 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
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Branch Panel: LC

Location: STOR. C2 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TC **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 100A MCB
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker		A	B	C		Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles STOR. C004	#12	20	1	0.7 / 0.2			1	20	#12	DUGOUT FANS REC.	2	
	3	SCOREBOARD	#6	20	1		1.5 / 0.4		1	20	#12	TECHNOLOGY FOR SOFTBALL	4	
--	5	SPARE	--	20	1			0.0 / 0.2	1	20	#12	DUGOUT FANS REC.	6	
--	7	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	8	--
--	9	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	10	--
--	11	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	12	--
--	13	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	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	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	20	--
--	21	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	22	--
--	23	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	24	--
--	25	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	26	--
--	27	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	28	--
--	29	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	36	--
	37					0.0 / 0.9							38	
--	39	SPDL	--	30	3		0.0 / 0.2		3	40	1-L	PANEL LC2	40	
	41							0.0 / 0.0					42	
		Total Load:				1.8 kVA	2.0 kVA	0.2 kVA						
		Total Amps:				17 A	19 A	2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	1.5 kVA	100.00%	1.5 kVA		
Receptacles	2.5 kVA	100.00%	2.5 kVA	**Total Conn. Load:**	4.0 kVA
				Total Est. Demand:	4.0 kVA
				Total Conn. Current:	11 A
				Total Est. Demand Current:	11 A

Notes:

Abbreviations:
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New Softball Complex

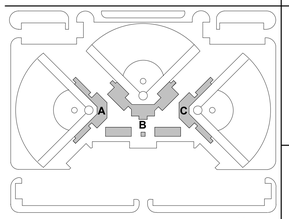
Pasadena, Texas
PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS — 80219 — LICENSED — PROFESSIONAL ENGINEER
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	SA
Checked	JZ
Approved	MS



N TRUE NORTH

Title

ELECTRICAL PANEL SCHEDULES

Sheet

E6.01

CONSTRUCTION DOCUMENTS

Autodesk Docs://Pasadena ISD Softball Complex/PISD Softball Complex_MEP_Central_R23.rvt

BINDING EDGE

11/7/2025 1:58:34 PM

BINDING EDGE

Branch Panel: LA2

Location: STOR. A4 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LA | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 40A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	DUGOUT FANS REC.	#12	20 1	0.2 / 0.2			1	20 #12	DUGOUT FANS REC.	2	
	3	Receptacles STOR. A004	#12	20 1		0.7 / 0.0					4	
--	5	SPARE	--	20 1			0.0 / 0.0	1	20 --	SPARE	6	--
--	7	SPARE	--	20 1	0.0 / 0.0			1	20 --	SPARE	8	--
--	9	SPARE	--	20 1		0.0 / 0.0		1	20 --	SPARE	10	--
--	11	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	12	--
--	13	SPACE	--	-- 1	0.0 / 0.0			1	-- --	SPACE	14	--
--	15	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1	-- --	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	24	--
			Total Load:		0.4 kVA	0.7 kVA	0.0 kVA					
			Total Amps:		3 A	6 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacles	1.1 kVA	100.00%	1.1 kVA		
				Total Conn. Load:	1.1 kVA
				Total Est. Demand:	1.1 kVA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:

Abbreviations:
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Branch Panel: LBB

Location: STOR. B12 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LB | **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	MOTORIZED ROLLUP DOOR	#12	20 1	0.5 / 0.4			1	20 #12	Receptacles STOR. B006	2	
	3	MOTORIZED ROLLUP DOOR	#12	20 1		0.5 / 0.4		1	20 #12	CAMERA TECHNOLOGY	4	
	5	Receptacles Pressbox B018	#12	20 1			0.4 / 0.4	1	20 #12	Receptacles Pressbox B018	6	
	7	Receptacles Pressbox B018	#12	20 1	0.7 / 0.7			1	20 #12	Receptacles IN DUGOUT, STOR. B010	8	
	9	DUGOUT FANS REC.	#12	20 1		0.4 / 0.7		1	20 #12	Receptacles DUGOUT, STOR. B008	10	
	11	DUGOUT FANS REC.	#12	20 1			0.4 / 1.1	2	30 #10	OUTDOOR SPLIT UNIT DMSCU-2	12	
	13	EXTERIOR RECEPTACLES	#12	20 1	0.2 / 1.1						14	
	15	ER RACK PRESSBOX	#12	20 1		0.2 / 0.5		1	20 #12	NAME LOGO LIGHTING	16	
--	17	SPARE	--	20 1			0.0 / 2.0	1	20 #12	IRRIGATION CONTROLLER	18	
--	19	SPARE	--	20 1	0.0 / 0.0			1	20 --	SPARE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	24	--
			Total Load:		3.6 kVA	2.6 kVA	4.2 kVA					
			Total Amps:		31 A	22 A	36 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	2.3 kVA	100.00%	2.3 kVA		
Lighting	0.5 kVA	125.00%	0.6 kVA	**Total Conn. Load:**	10.5 kVA
Miscellaneous	3.0 kVA	100.00%	3.0 kVA	**Total Est. Demand:**	10.6 kVA
Receptacles	4.7 kVA	100.00%	4.7 kVA	**Total Conn. Current:**	29 A
				Total Est. Demand Current:	29 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
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Branch Panel: LB2

Location: STOR. B11A | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LB | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 150A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles Room B012, B011, B013	#12	20 1	0.9 / 0.5			1	20 #12	HAND DRYER WOMEN'S B011	2	
	3	HAND DRYER WOMEN'S B011	#12	20 1		0.5 / 0.5		1	20 #12	HAND DRYER WOMEN'S B011	4	
	5	HAND DRYER WOMEN'S B011	#12	20 1			0.5 / 0.5	1	20 #12	HAND DRYER MENS B012	6	
	7	HAND DRYER MENS B012	#12	20 1	0.5 / 0.5			1	20 #12	HAND DRYER RR B8	8	
	9	Receptacles OFFICIALS B015	#12	20 1		0.9 / 0.2		1	20 #12	MDF RACK REC.	10	
	11	EXTERIOR RECEPTACLES	#12	20 1			0.4 / 0.2	1	20 #12	MDF RACK REC.	12	
	13	CONDENSATE PUMP CP-1	#12	20 1	0.2 / 1.1						14	
	15	EF-2, EF-3	#12	20 1		1.7 / 1.1		2	30 #10	OUTDOOR SPLIT UNIT DMSCU-4	16	
	17	OUTDOOR SPLIT UNIT DMSCU-3	#10	30 2			1.1 / 0.5	1	20 #12	INTERCOM PANEL	18	
	19				1.1 / 0.5			1	20 #12	ACCESS CONTROL PANEL	20	
	21	Receptacles Room B016, B013	#12	20 1		0.5 / 0.5		1	20 #12	INTRUSION ALARM PANEL	22	
	23	EUH-5	#12	20 2			2.5 / 1.7				24	
	25				2.5 / 1.7			2	20 #12	EUH-6	26	
	27	EUH-7	#12	20 2		2.5 / 1.7					28	
	29						2.5 / 1.7	2	20 #12	EUH-8	30	
	31				5.0 / 0.5			1	20 #12	FIRE ALARM PANEL	32	LO
	33	WATER HEATER EWH-1	#8	50 3		5.0 / 0.0		1	20 --	SPARE	34	--
	35						5.0 / 0.0	1	20 --	SPARE	36	--
--	37	SPARE	--	20 1	0.0 / 0.0			1	20 --	SPARE	38	--
--	39	SPARE	--	20 1		0.0 / 0.0		1	20 --	SPARE	40	--
--	41	SPARE	--	20 1			0.0 / 0.0	1	20 --	SPARE	42	--
--	43	SPACE	--	-- 1	0.0 / 0.0						44	
--	45	SPACE	--	-- 1		0.0 / 0.0		3	30 --	SPDL	46	--
--	47	SPACE	--	-- 1			0.0 / 0.0				48	
			Total Load:		15.0 kVA	15.1 kVA	16.5 kVA					
			Total Amps:		125 A	126 A	137 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6.3 kVA	100.00%	6.3 kVA		
Heating	16.6 kVA	100.00%	16.6 kVA	**Total Conn. Load:**	46.6 kVA
Miscellaneous	20.5 kVA	100.00%	20.5 kVA	**Total Est. Demand:**	46.6 kVA
Receptacles	3.2 kVA	100.00%	3.2 kVA	**Total Conn. Current:**	129 A
				Total Est. Demand Current:	129 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: LC2

Location: STOR. C4 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: LC | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 40A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles Room C002	#12	20 1	0.7 / 0.2			1	20 #12	DUGOUT FANS REC.	2	
	3					0.0 / 0.2		1	20 #12	DUGOUT FANS REC.	4	
--	5	SPARE	--	20 1			0.0 / 0.0	1	20 --	SPARE	6	--
--	7	SPARE	--	20 1	0.0 / 0.0			1	20 --	SPARE	8	--
--	9	SPARE	--	20 1		0.0 / 0.0		1	20 --	SPARE	10	--
--	11	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	12	--
--	13	SPACE	--	-- 1	0.0 / 0.0			1	-- --	SPACE	14	--
--	15	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	16	--
--	17	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	18	--
--	19	SPACE	--	-- 1	0.0 / 0.0			1	-- --	SPACE	20	--
--	21	SPACE	--	-- 1		0.0 / 0.0		1	-- --	SPACE	22	--
--	23	SPACE	--	-- 1			0.0 / 0.0	1	-- --	SPACE	24	--
			Total Load:		0.9 kVA	0.2 kVA	0.0 kVA					
			Total Amps:		8 A	2 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacles	1.1 kVA	100.00%	1.1 kVA		
				Total Conn. Load:	1.1 kVA
				Total Est. Demand:	1.1 kVA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Switchboard: MDP

Location: ELEC. B5 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 65000
Supply From: Utility | **Phases:** 3 | **MCB Rating:** 800
Mounting: WALL | **Wires:** 4 | **Mains Rating:** 800
Enclosure: TYPE 1

CKT	Circuit Description	Trip Rating	# of Poles	Load	Wire	Remarks
1	PANEL HA	200	3	139.2 kVA	SEE 1-L	
2	PANEL HB	400	3	235.8 kVA	SEE 1-L	
3	PANEL HC	200	3	145.5 kVA	SEE 1-L	
4	SPARE	60	3	0.0 kVA		
5	SPARE	100	3	0.0 kVA		
6	SPARE	100	3	0.0 kVA		
7	SPARE	30	3	0.0 kVA		
8	SPD	60	3	0.0 kVA		
9	SPACE	--	3	--		
10	SPACE	--	3	--		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
			Total Conn...	520.5 kVA		
			Total Amps:	626		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	20.8 kVA	100.00%	20.8 kVA		
Lighting	11.8 kVA	125.00%	14.7 kVA	**Total Conn. Load:**	520.5 kVA
Other	396.8 kVA	100.00%	396.8 kVA	**Total Est. Demand:**	519.9 kVA
Miscellaneous	39.3 kVA	100.00%	39.3 kVA	**Total Conn. Current:**	626
Receptacles	16.9 kVA	79.55%	13.5 kVA	**Total Est. Demand...**	625
Heating	34.9 kVA	100.00%	34.9 kVA		

Notes:

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT



Revision Schedule

NO.	ISSUE	DATE

Sheet Information

Date	10 November 2025
Job Number	23-012
Drawn	SA
Checked	Checker
Approved	CA

Title

ELECTRICAL PANEL SCHEDULES

Sheet

E6.02

CONSTRUCTION DOCUMENTS

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CONSTRUCTION DOCUMENTS

AUDIO/VISUAL MULTIMEDIA LEGEND

SYMBOL	DESCRIPTION
A##> V##>	WALL AV ROUGH-IN DETAIL
A## V##	CEILING AV ROUGH-IN DETAIL
A## V##	FLOOR AV ROUGH-IN DETAIL
IWB IWB	INTERACTIVE WHITE BOARD - WALL - CEILING
PJ PJ	MULTIMEDIA PROJECTOR
FP# FP#	MULTIMEDIA FLAT PANEL DISPLAY
S S	LOUDSPEAKER, WALL MOUNTED AND CEILING MOUNTED RESPECTIVELY - # INDICATES TYPE
CP#	CONTROL PANEL
TP#	TOUCH PANEL
M#	MICROPHONE, CEILING MOUNTED - # INDICATES TYPE
VC ▷	VOLUME CONTROL
WB	WALL BOX ENCLOSURE
D1 A1	D1 = DIGITAL SINGLE SIDED CLOCK / A1 = ANALOG SINGLE SIDED CLOCK
D2 A2	D2 = DIGITAL DOUBLE SIDED CLOCK / A2 = ANALOG DOUBLE SIDED CLOCK
ENC	CEILING AV ENCLOSURE
C# C#	PRESENTATION CAMERA - CEILING - WALL MOUNTED

PREMISE SECURITY LEGEND

SYMBOL	DESCRIPTION
CR	CARD READER
CR M	CARD READER MULLION
KP	INTRUSION DETECTION KEYPAD
IC	INTERCOM (1 DATA CABLE)
IC MS	INTERCOM MASTER STATION (1 DATA CABLE)
PB	PANIC/DURESS BUTTON
LD	LOCK DOWN BUTTON
MD	MOTION DETECTOR
GB	ACCOUSTICAL GLASS BREAK SENSOR
BM	BIOMETRIC READER
RX	REQUEST TO EXIT - SURFACE PIR
KS	KEY SWITCH
LA	LOCAL ALARM SOUNDER
RG	RED/GREEN INDICATOR LIGHT
DB	DOORBELL
DH	MAGNETIC DOOR HOLD
DR	DOOR RELEASE
RX	REQUEST TO EXIT - INTEGRAL TO DOOR HARDWARE
DC	DOOR CONTACT / MONITOR
ES EL EH	ELECTRIFIED STRIKE - ELECTRIFIED LATCH - ELECTRIFIED HARDWARE (REFER TO SCHEDULES)
C C	STANDARD IP SURVEILLANCE CAMERA, (1) CABLE
C C C	180° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° MULTI-IMAGER IP SURVEILLANCE CAMERA, (1) CABLE
C	360° FISHEYE LENS CAMERA
IR	IR ILLUMINATOR

STRUCTURED CABLING LEGEND

SYMBOL	DESCRIPTION
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF DATA CABLE(S)/JACK(S)
#/#	TELECOMMUNICATIONS OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S)
#	TELECOMMUNICATIONS OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S), SURFACE MOUNT
#/#	TELECOMMUNICATIONS OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S), SURFACE MOUNT
W	WALL MOUNT PHONE (1 CABLE/JACK)
W	WALL MOUNT PHONE, SURFACE MOUNT (1 CABLE/JACK)
#	FLOOR MOUNTED OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#/#	FLOOR MOUNTED OUTLET, #/# = NUMBER OF VOICE CABLE(S)/JACK(S) AND NUMBER OF DATA CABLE(S)/JACK(S) (FLOOR BOX BY E.C.)
#	CEILING MOUNTED DATA OUTLET, # =NUMBER OF VOICE/DATA CABLE(S)/JACK(S)
AP#	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
APE>	WALL MOUNTED OUTLET FOR WIRELESS ACCESS POINT #=NUMBER OF CABLE(S)/JACK(S)
	CABLING SLEEVE(S)
	TYPICAL LADDER RACK
	TYPICAL CABLE TRAY, BASKET STYLE

GENERAL ANNOTATION LEGEND

SYMBOL	DESCRIPTION
MER	MAIN EQUIPMENT ROOM
TR	TELECOMMUNICATION ROOM
MDF	MAIN DISTRIBUTION FRAME
IDF	INTERMEDIATE DISTRIBUTION FRAME
ETR	EXISTING TO REMAIN
PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	ABOVE COUNTER
EC	ELECTRICAL CONTRACTOR
PSC	PREMISE SECURITY CONTRACTOR
SCC	STRUCTURAL CABLING CONTRACTOR
AVC	AV/MULTIMEDIA CONTRACTOR
UNO	UNLESS NOTED OTHERWISE
ACS	ACCESS CONTROL SYSTEM
VSS	VIDEO SURVEILLANCE SYSTEM

TECHNOLOGY SHEET INDEX

SHEET NUMBER	SHEET NAME
T0.00	TECHNOLOGY - INDEX SHEET
T1.01	TECHNOLOGY - OVERALL SITE PLAN
T2.02.1	TECHNOLOGY - GROUND LEVEL PLAN - AREA B
T2.02.2	TECHNOLOGY - PRESSBOX - AREA B
T400	TECHNOLOGY - ENLARGEMENTS
T401	TECHNOLOGY - MDF WALL ELEVATIONS
T500	TECHNOLOGY - DETAILS
T501	TECHNOLOGY - DETAILS
T502	TECHNOLOGY - DETAILS
T600	TECHNOLOGY - SECURITY DETAILS
T601	TECHNOLOGY - SECURITY DETAILS
T700	TECHNOLOGY - AV DETAILS
T701	TECHNOLOGY - AV DETAILS

TECHNOLOGY - GENERAL NOTES

1. EACH KEYNOTE MAY NOT BE UTILIZED ON EVERY SHEET.
2. ALL CONDUIT MEASUREMENTS REFER TO STANDARD CONDUIT TRADE SIZES.
3. ALL CABLES SHALL BE CONCEALED.
4. EACH CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SLEEVES, WHETHER OR NOT SPECIFICALLY NOTED ON PROJECT DRAWINGS. ALL SLEEVES SHALL BE 2" UNLESS NOTED OTHERWISE ON THE DRAWINGS. CABLE FILL PERCENTAGE SHALL COMPLY WITH NEC.
5. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL REVIEW CONDITIONS AND COORDINATE WITH OTHER TRADES AS NECESSARY FOR EXACT PLACEMENT.

TECHNOLOGY SYMBOLS LEGEND

NOT ALL SYMBOLS ARE USED

- AV WALL ROUGH-IN WITH DATA
- KEYNOTE
- Proposed Camera Direction; SURVEILLANCE CAMERA; Camera Schedule Number (Floor #-Camera #); Camera (N)ew, (E)xisting Rough-in, (D)emo
- Proposed Camera Direction; PTZ CAMERA
- Proposed Camera Direction; FIXED SURVEILLANCE CAMERA
- 360°/MULTI-SENSOR FIXED SURVEILLANCE CAMERA OR FISHEYE LENS CAMERA
- Approximate view of lens; Lens View Angle; 360°/MULTI-SENSOR FIXED SURVEILLANCE CAMERA OR FISHEYE LENS CAMERA; Lens size
- MICROPHONE WITH AUDIO LINKED TO CAMERA
- CARD READER LINKED TO CAMERA
- SYMBOL TAG: (#) = DIFFERENT TYPES OF CARD READERS: M = MULLION, W = WIRELESS (Proprietary), Wi = Wi-Fi (802.11), POE = POWER OVER ETHERNET
- SYMBOL TAG: (#) = DIFFERENT TYPES OF CARD READERS: TS = TOUCHSCREEN, PU = PUSH BUTTON
- TOP = DETAIL NUMBER; DETAIL REFERENCE; BOTTOM = SHEET NUMBER
- NORTH ARROW
- SHEET NUMBER; SECTION MARKER; DETAIL NUMBER
- DIRECTION OF ELEVATION; ELEVATION MARKER; SHEET NUMBER; DETAIL NUMBER
- DIRECTION OF ELEVATION; SHEET NUMBER; DIRECTION OF ELEVATION; DETAIL NUMBER
- BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI Jeff Scott Coombs BICSI ID # 221090 EXPIRES 12-31-27 RCDD

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Job Number	23-012
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Checked	RL
Approved	RL

Title

TECHNOLOGY - INDEX SHEET

Sheet

T0.00

CONSTRUCTION DOCUMENT

CONSTRUCTION DOCUMENTS

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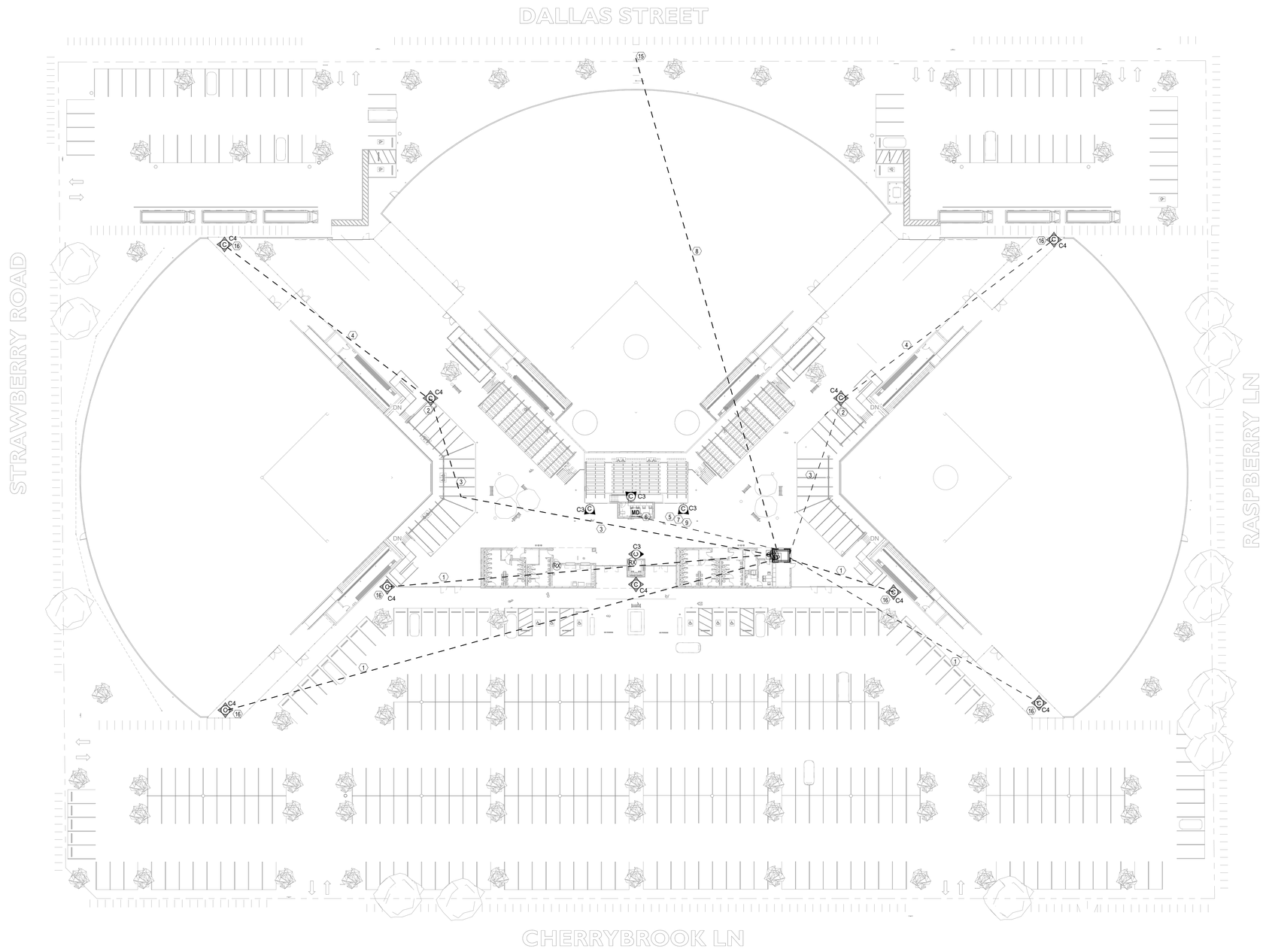
CONSTRUCTION DOCUMENTS



1 OVERALL SITE PLAN
SCALE: 1" = 30'-0"

TECHNOLOGY KEYNOTES

1. ONE (1) 2" UNDERGROUND CONDUIT WITH 3-CELL DETECTABLE MAXCELL INNERDUCTS TO CAMERA POLE. CONTRACTOR SHALL PROVIDE AND INSTALL STRONGPOLE 16' STEADYMAX CAMERA POLE WITH 30"X 72" STRONGFORMS CONCRETE FORM AND TOP OF POLE MOUNT FOR MULTI-IMAGER CAMERA (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT AND DISCIPLINE COORDINATION). 2 STRANDS POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
2. WALL MOUNTED PULL BOX, MIN. SIZE 24X24X6. 120VAC, 20A CIRCUIT.
3. ONE (1) x 4" UNERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX. 2 STRANDS POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
4. ONE (1) X 1-1/2" CONDUIT FROM PULL BOX TO CAMERA. 2 STRAND POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
5. ONE (1) x 4" UNERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX FROM MDF TO PRESSBOX FOR SECURITY CABLING.
6. WALL MOUNTED PULL BOX, MIN. SIZE 24X24X6,
7. ONE (1) x 4" UNERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX. 6-STRAND INDOOR/OUDOOR MM FIBER FROM MDF TO PRESSBOX.
8. FOUR (4) 4" UNDERGROUND CONDUITS WITH 3-CELL DETECTABLE MAXCELL INNERDUCTS FROM MDF TO EDGE OF PROPERTY LINE PULLBOX LOCATION FOR BUILDING SERVICES (PHONOSCOPE/AT&T) FIBER AND TELECOM CONNECTIVITY. (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT)
9. ONE (1) 2" UNDERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX FROM MDF TO PRESSBOX FOR CARD READER.
10. PRESS BOX MOUNTED LOUDSPEAKER (TYPICAL OF 4) - MOUNTED TO SIDE OF PRESS BOX JUST BELOW ROOF LINE. SECURE THRU WALL OF PRESS BOX AND CONFIRM LOADING. VERIFY EPA LOADS TO SUPPORT SPEAKER SYSTEM PROVIDE 1-1/2" CONDUIT FROM SPEAKER LOCATION WITH 1 GANG NEMA3 BOX AND ROUTE TO TO EC1 CABINET IN PRESS BOX AVC SHALL PROVIDE LOUDSPEAKER (REF. LINE DETAILS), MOUNT ANS SUPPORT STRUCTURE AND 12/2 SPEAKER WIRE.
11. WIRELESS MICROPHONE ANTENNA (TYPICAL OF TWO LOCATIONS) 4-11/16" SQ. 3-1/4" DEEP BACKBOX W/ DOUBLE GANG RING MOUNTED ABOVE PRESS BOX WINDOWS PROVIDE (1) 1-1/4" C STUBBED INTO ACCESSIBLE CEILING SPACE AVC SHALL PROVIDE ANTENNA AND AIM TOWARDS FIELD. PROVIDE WIRELSS MIC COVERAGE FROM PRESSBOX AND EXTEND COVERAGE TO COVER THE FULL INFIELD AREA
12. PTT MICROPHONE OUTLET 4-11/16" SQ. 3-1/4" DEEP BACK BOX W/ SINGLE GANG RING AT OUTLET HEIGHT PROVIDE (1) 1-1/4" C STUBBED UP INTO BASE AV RACK LOCATION. AVC TO PROVIDE PTT MIC INPUT PLATE AND CABLING TO AUDIO MIXER/ DSP.
13. AV CABINET EQUIPMENT
    ONE (1) MIDDLE ATLANTIC SR34-28 FLOOR MOUNTED SWING RACK
    ONE (1) MIDDLE ATLANTIC VFD-24 VENTED FRONT DOOR
    ONE (1) MIDDLE ATLANTIC FAN KIT UQFP-4RA
    *INTAKE MOUNTED IN BOTTOM BASE
    *EXHAUST MOUNTED AT TOP OF CABLE CHASE

    CONDUITS ROUTED TO EC1 CABINET
    THREE (3) 1.5" CONDUITS FOR SPEAKERS MOUNTED TO PRESS BOX "S1"
    ONE (1) 2" CONDUIT FOR CONCOURSE SPEAKERS "S2"
    ONE (1) 1-1/4" CONDUIT FOR MIC. OUTLET
    ONE (2) 1-1/4" CONDUIT FOR WIRELESS ANTENNA "AN1"
14. HUDDL CAMERA LOCATION. PROVIDE 120VAC POWER OUTLET AND (1) DATA.
15. NEW FIBERGLASS - REINFORCED UNDERGROUND ENCLOSURE 36"X48"X48" (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT AND DISCIPLINE COORDINATION)
16. CAMERA TO BE INSTALLED ON DEDICATED CAMERA POLE. REFERENCE DETAIL 6, SHEET T600.
17. SPACE RESERVED FOR FIRE ALARM CONTROL PANEL & BUILDING AUTOMATION.
18. SPACE RESERVED FOR ELECTRONIC ACCESS CONTROL PANEL.
19. SPACE RESERVED FOR INTRUSION DETECTION CONTROL PANEL.

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jeff Scott Coombs
BICSI ID # 221090
EXPIRES 12-31-27
RCDD

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Sheet Information

Date	11-10-25
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

TECHNOLOGY - OVERALL SITE PLAN

Sheet

T1.01

CONSTRUCTION DOCUMENT

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TECHNOLOGY KEYNOTES

1. ONE (1) 2" UNDERGROUND CONDUIT WITH 3-CELL DETECTABLE MAXCELL INNERDUCTS TO CAMERA POLE. CONTRACTOR SHALL PROVIDE AND INSTALL STRONGPOLE 16' STEADYMAX CAMERA POLE WITH 30"X 72" STRONGFORMS CONCRETE FORM AND TOP OF POLE MOUNT FOR MULTI-IMAGER CAMERA (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT AND DISCIPLINE COORDINATION). 2 STRANDS POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
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    ONE (1) MIDDLE ATLANTIC SR24-28 FLOOR MOUNTED SWING RACK
    ONE (1) MIDDLE ATLANTIC VFD-24 VENTED FRONT DOOR
    ONE (1) MIDDLE ATLANTIC FAN KIT UQFP-4RA
    *INTAKE MOUNTED IN BOTTOM BASE
    *EXHAUST MOUNTED AT TOP OF CABLE CHASE

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    THREE (3) 1.5" CONDUITS FOR SPEAKERS MOUNTED TO PRESS BOX "S1"
    ONE (1) 2" CONDUIT FOR CONCOURSE SPEAKERS "S2"
    ONE (1) 1-1/4" CONDUIT FOR MIC. OUTLET
    ONE (2) 1-1/4" CONDUIT FOR WIRELESS ANTENNA "AN1"
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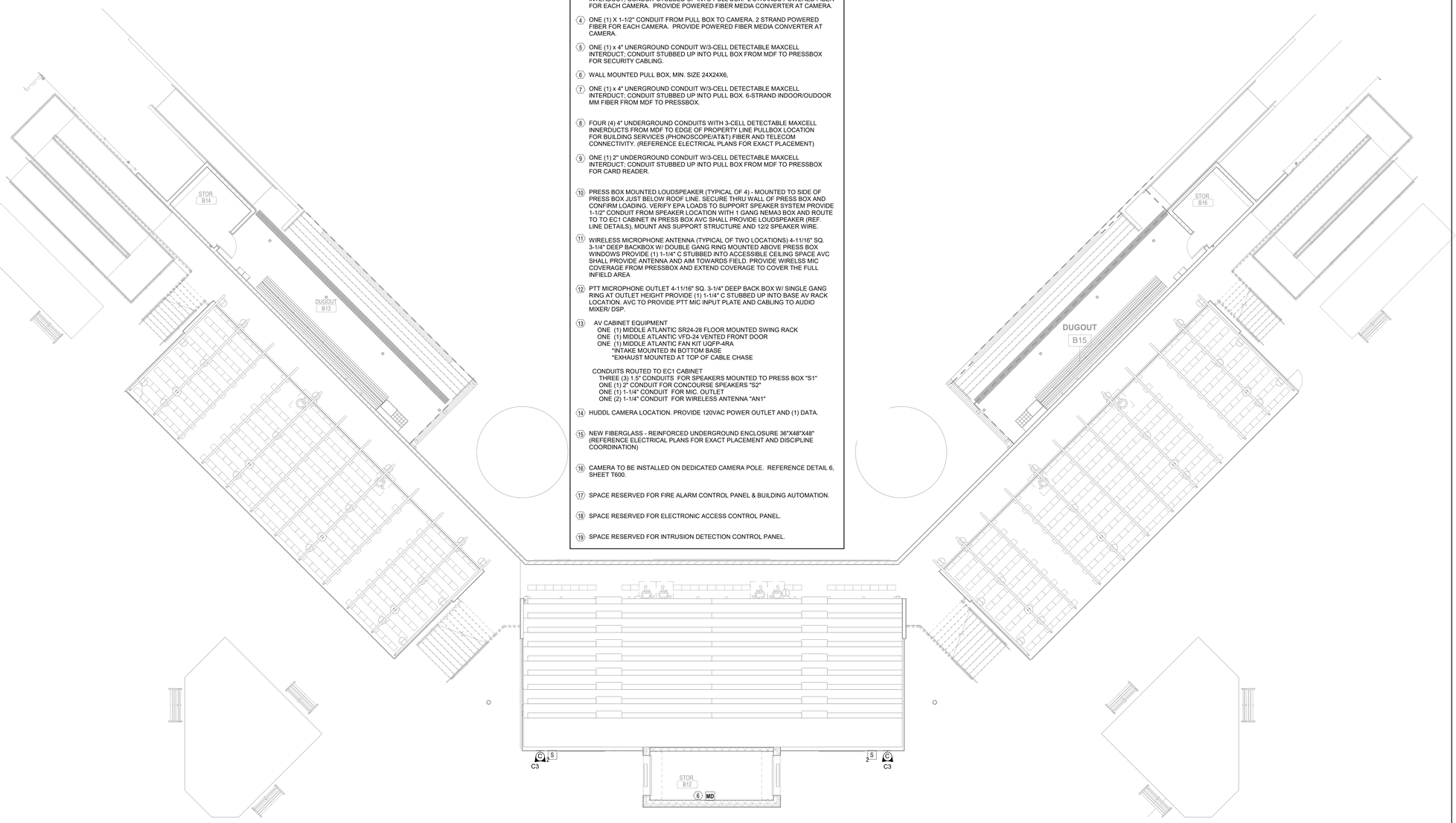

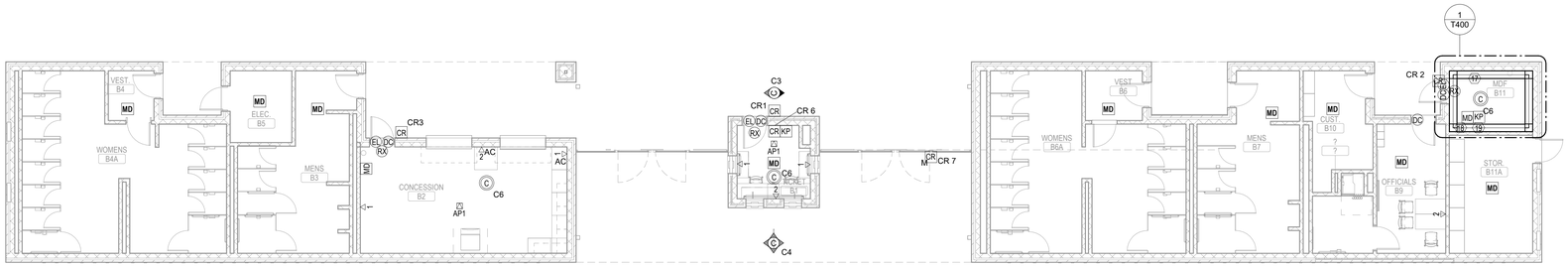

C3 FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

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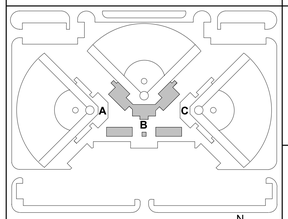
Tony Chojnowski
BICSI - REG # 117005

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11-10-25
Job Number	23-012
Drawn	PR
Checked	RL
Approved	RL



Title

TECHNOLOGY - GROUND LEVEL PLAN - AREA B

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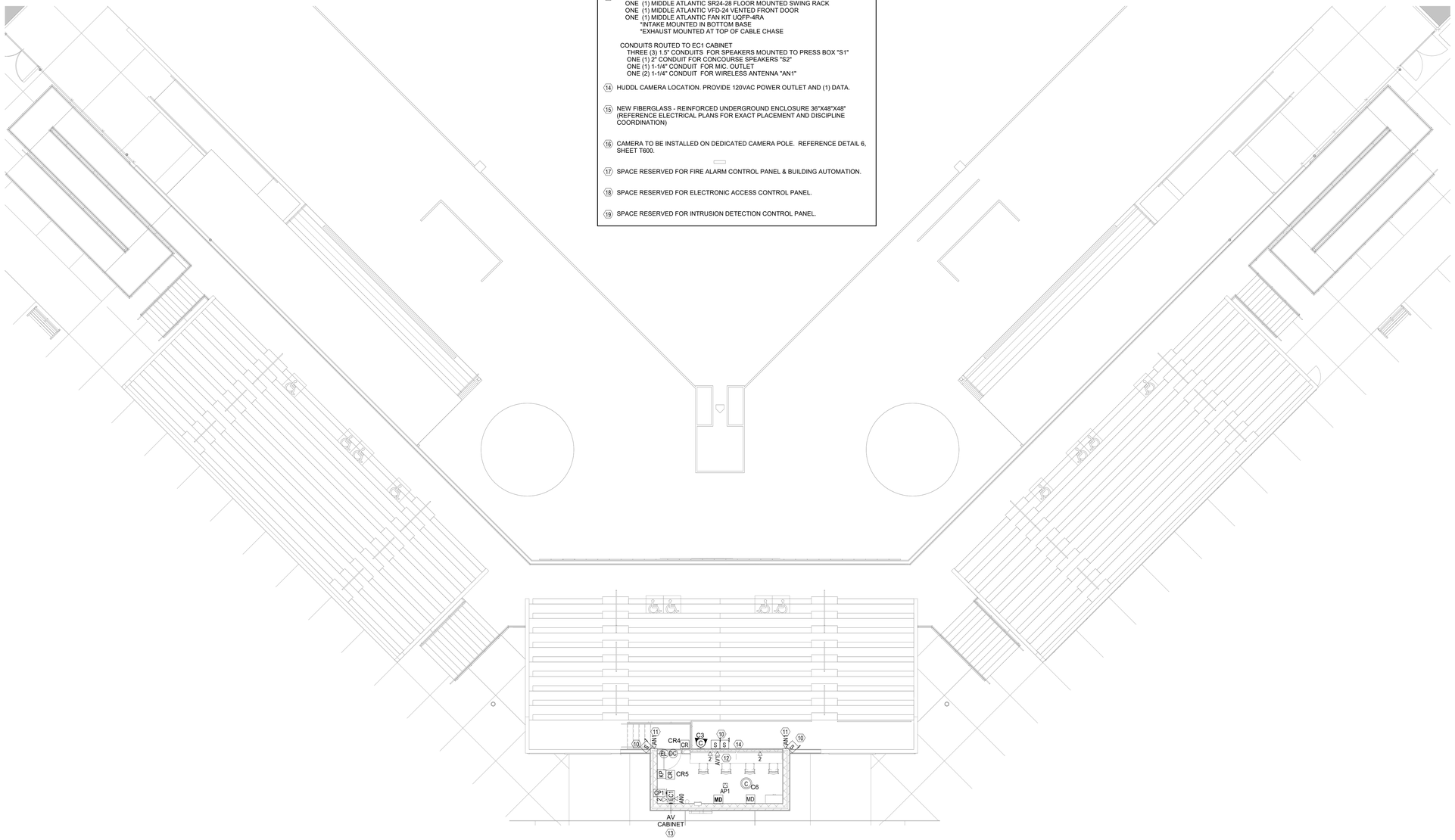
TECHNOLOGY KEYNOTES

1. ONE (1) 2" UNDERGROUND CONDUIT WITH 3-CELL DETECTABLE MAXCELL INNERDUCTS TO CAMERA POLE. CONTRACTOR SHALL PROVIDE AND INSTALL STRONGPOLE 16' STEADYMAX CAMERA POLE WITH 30"X 72" STRONGFORMS CONCRETE FORM AND TOP OF POLE MOUNT FOR MULTI-IMAGER CAMERA (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT AND DISCIPLINE COORDINATION). 2 STRANDS POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
2. WALL MOUNTED PULL BOX, MIN. SIZE 24X24X6. 120VAC, 20A CIRCUIT.
3. ONE (1) x 4" UNERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX. 2 STRANDS POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
4. ONE (1) X 1-1/2" CONDUIT FROM PULL BOX TO CAMERA. 2 STRAND POWERED FIBER FOR EACH CAMERA. PROVIDE POWERED FIBER MEDIA CONVERTER AT CAMERA.
5. ONE (1) x 4" UNERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX FROM MDF TO PRESSBOX FOR SECURITY CABLING.
6. WALL MOUNTED PULL BOX, MIN. SIZE 24X24X6,
7. ONE (1) x 4" UNERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX. 6-STRAND INDOOR/OUDOOR MM FIBER FROM MDF TO PRESSBOX.
8. FOUR (4) 4" UNDERGROUND CONDUITS WITH 3-CELL DETECTABLE MAXCELL INNERDUCTS FROM MDF TO EDGE OF PROPERTY LINE PULLBOX LOCATION FOR BUILDING SERVICES (PHONOSCOPE/AT&T) FIBER AND TELECOM CONNECTIVITY. (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT)
9. ONE (1) 2" UNDERGROUND CONDUIT W/3-CELL DETECTABLE MAXCELL INTERDUCT; CONDUIT STUBBED UP INTO PULL BOX FROM MDF TO PRESSBOX FOR CARD READER.
10. PRESS BOX MOUNTED LOUDSPEAKER (TYPICAL OF 4) - MOUNTED TO SIDE OF PRESS BOX JUST BELOW ROOF LINE. SECURE THRU WALL OF PRESS BOX AND CONFIRM LOADING. VERIFY EPA LOADS TO SUPPORT SPEAKER SYSTEM PROVIDE 1-1/2" CONDUIT FROM SPEAKER LOCATION WITH 1 GANG NEMA3 BOX AND ROUTE TO TO EC1 CABINET IN PRESS BOX AVC SHALL PROVIDE LOUDSPEAKER (REF. LINE DETAILS), MOUNT ANS SUPPORT STRUCTURE AND 12/2 SPEAKER WIRE.
11. WIRELESS MICROPHONE ANTENNA (TYPICAL OF TWO LOCATIONS) 4-11/16" SQ. 3-1/4" DEEP BACKBOX W/ DOUBLE GANG RING MOUNTED ABOVE PRESS BOX WINDOWS PROVIDE (1) 1-1/4" C STUBBED INTO ACCESSIBLE CEILING SPACE AVC SHALL PROVIDE ANTENNA AND AIM TOWARDS FIELD. PROVIDE WIRELSS MIC COVERAGE FROM PRESSBOX AND EXTEND COVERAGE TO COVER THE FULL INFIELD AREA
12. PTT MICROPHONE OUTLET 4-11/16" SQ. 3-1/4" DEEP BACK BOX W/ SINGLE GANG RING AT OUTLET HEIGHT PROVIDE (1) 1-1/4" C STUBBED UP INTO BASE AV RACK LOCATION. AVC TO PROVIDE PTT MIC INPUT PLATE AND CABLING TO AUDIO MIXER/ DSP.
13. AV CABINET EQUIPMENT
    ONE (1) MIDDLE ATLANTIC SR24-28 FLOOR MOUNTED SWING RACK
    ONE (1) MIDDLE ATLANTIC VFD-24 VENTED FRONT DOOR
    ONE (1) MIDDLE ATLANTIC FAN KIT UQFP-4RA
    *INTAKE MOUNTED IN BOTTOM BASE
    *EXHAUST MOUNTED AT TOP OF CABLE CHASE

    CONDUITS ROUTED TO EC1 CABINET
    THREE (3) 1.5" CONDUITS FOR SPEAKERS MOUNTED TO PRESS BOX "S1"
    ONE (1) 2" CONDUIT FOR CONCOURSE SPEAKERS "S2"
    ONE (1) 1-1/4" CONDUIT FOR MIC. OUTLET
    ONE (2) 1-1/4" CONDUIT FOR WIRELESS ANTENNA "AN1"
14. HUDDL CAMERA LOCATION. PROVIDE 120VAC POWER OUTLET AND (1) DATA.
15. NEW FIBERGLASS - REINFORCED UNDERGROUND ENCLOSURE 36"X48"X48" (REFERENCE ELECTRICAL PLANS FOR EXACT PLACEMENT AND DISCIPLINE COORDINATION)
16. CAMERA TO BE INSTALLED ON DEDICATED CAMERA POLE. REFERENCE DETAIL 6, SHEET T600.
17. SPACE RESERVED FOR FIRE ALARM CONTROL PANEL & BUILDING AUTOMATION.
18. SPACE RESERVED FOR ELECTRONIC ACCESS CONTROL PANEL.
19. SPACE RESERVED FOR INTRUSION DETECTION CONTROL PANEL.



1 GRANDSTAND LEVEL - AREA B
SCALE: 1/8" = 1'-0"

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Tony Chojnowski
BICSI - REG # 117005

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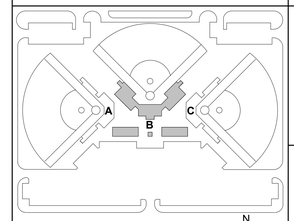

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TECHNOLOGY - PRESSBOX - AREA B

Sheet

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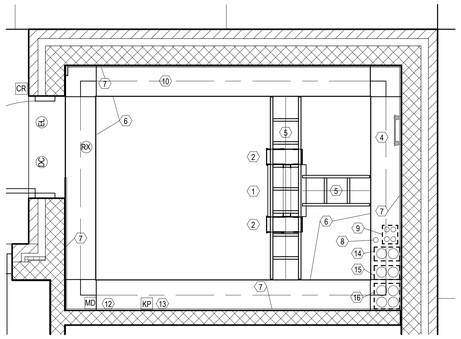

1 MDF B11
SCALE: 1/2" = 1'-0"

ENLARGEMENT KEYNOTES

1. 2-POST RACK, SECURED TO FLOOR WITH EXPANSION ANCHORS, FIRST RACK SHALL BE 6" FROM WALL, IF VERTICAL WIRE PRESENT BETWEEN RACK AND WALL THEN VERTICAL WIRE MANAGER ATTACHED TO WALL SIDE OF RACK SHALL BE 6" FROM WALL. (TYPICAL)
2. 6" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
3. 10" VERTICAL WIRE MANAGER SECURED TO SIDE OF RACK (TYPICAL)
4. GROUND BUS BAR, MOUNTED 6' AFF, ELECTRON PLATED AND PREDRILLED TO ACCEPT STANDARD TWO-HOLE LUGS.
5. 18"x2" LADDER RACK SECURED TO TOP OF RACK WITH LADDER RACK MOUNTING PLATE AND BOLTED TO WALL, WITH WATER FALLS INTO VERTICAL WIRE MANAGERS (TYPICAL)
6. 12"x4" CABLE TRAY (BASKET STYLE) WITH 6" CLEARANCE FROM WALL (TYPICAL)
7. 3/4" FIRED RATED PLYWOOD SECURED TO WALL AT 22" AFF. IF THE PLYWOOD IS PAINTED, THE PAINT SHALL BE FIRE RETARDANT PAINT ON BOTH SIDES AND THE RATING STAMP ON THE PLYWOOD SHALL BE EXPOSED.
8. (1) 2" CONDUIT WITH 3-CELL MAXCELL DETECTABLE INNERDUCT, TO PRESSBOX, FOR ACCESS CONTROLS.
9. (4) 2" CONDUIT WITH 3-CELL MAXCELL DETECTABLE INNERDUCT, TO CAMERA POLES, FOR POWERED FIBER.
10. SPACE RESERVED FOR FIRE ALARM CONTROL PANEL & BUILDING AUTOMATION.
11. SPACE RESERVED FOR TELEPHONE TERMINAL BLOCKS OR FRAME.
12. SPACE RESERVED FOR ACCESS CONTROL PANELS. DEDICATED 120VAC CIRCUIT REQUIRED. COORDINATE WITH ELECTRICAL.
13. SPACE RESERVED FOR INTRUSION PANELS. DEDICATED 120VAC CIRCUIT REQUIRED. COORDINATE WITH ELECTRICAL.
14. (2) 4" CONDUIT WITH 3-CELL MAXCELL DETECTABLE INNERDUCT, TO CAMERAS ON GRANDSTANDS AND CAMERA POLE ON PLAN NORTH OF FIELDS A & C.
15. (2) 4" CONDUIT WITH 3-CELL MAXCELL DETECTABLE INNERDUCT, TO PRESSBOX , FOR SECURITY AND FIBER OPTIC CONNECTION BETWEEN MDF AND PRESSBOX.
16. (4) 4" CONDUIT WITH 3-CELL MAXCELL DETECTABLE INNERDUCT, PLAN NORTH PROPERTY LINE FOR INTERNET/SERVICE PROVIDER FOR SERVICE ENTRANCE.

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TECHNOLOGY - ENLARGEMENTS

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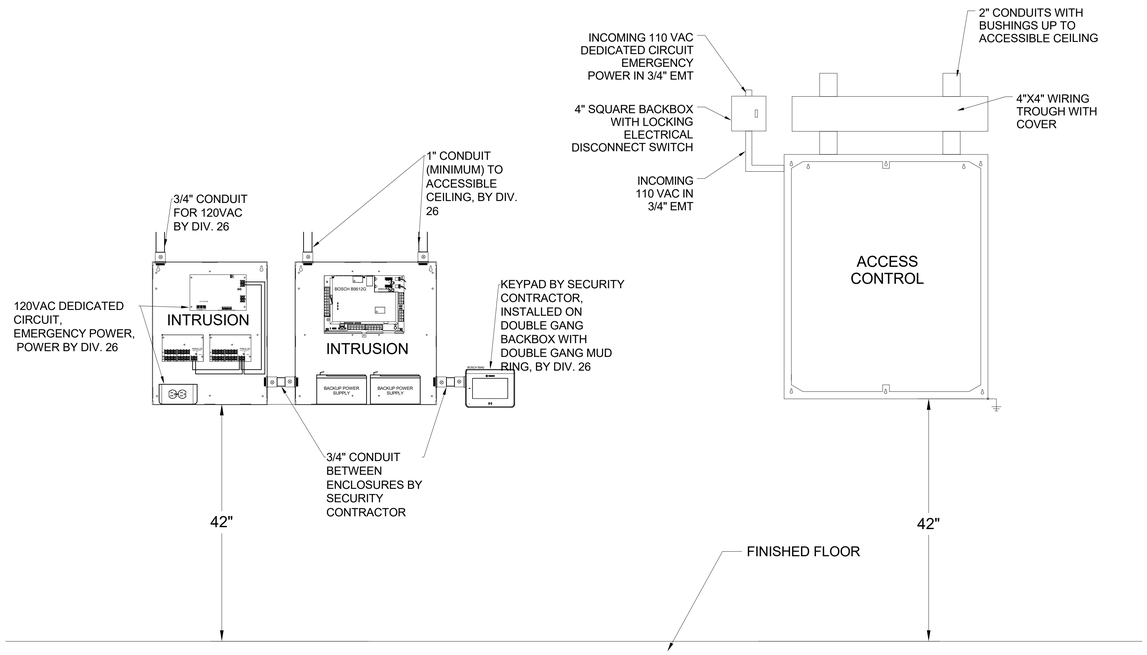

1 TYPICAL MDF WALL ELEVATION
SCALE: NTS

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TECHNOLOGY - MDF WALL ELEVATIONS

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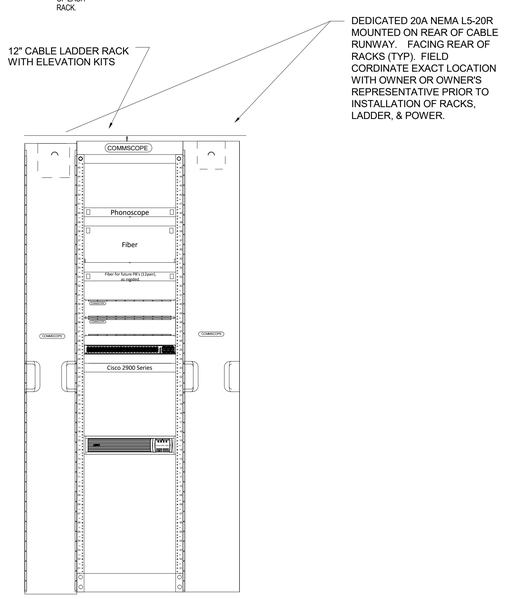
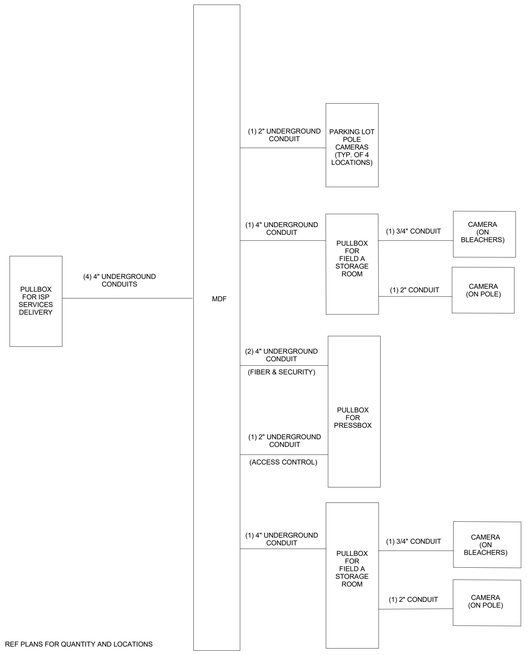
GENERAL NOTE

1. A HORIZONTAL GROUND BUSBAR WILL BE INSTALLED AT THE TOP OF EACH RACK.



REF PLANS FOR QUANTITY AND LOCATIONS

3 MDF RACK ELEVATION
SCALE: NTS



REF PLANS FOR QUANTITY AND LOCATIONS

2 BACKBONE CONDUIT DETAIL
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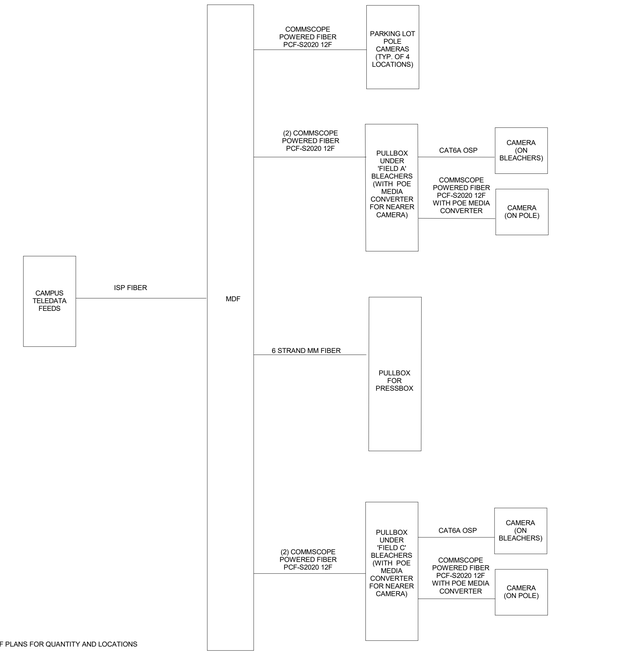

REF PLANS FOR QUANTITY AND LOCATIONS

3 FIBER OPTIC BACKBONE DIAGRAM
SCALE: NTS

CF/CI	OF/CI	OF/OI	Scope Item	Notes
X			Structured Data Cabling	Commscope Uniprise CAT6A
X			Local Sound Systems	
X			Special Space AV Systems	
X			Intrusion Detection System	Bosch
X			Surveillance Cameras	Hanwha
X			Access Control Door Data	
X			Access Control Systems	Genetec
		X	Network Electronics	
		X	UPS Systems	
X			Wireless Access Points	
		X	Voice Communications	
		X	Computers	
		X	Document Cameras	
		X	Computer Furniture	

4 RESPONSIBILITY MATRIX
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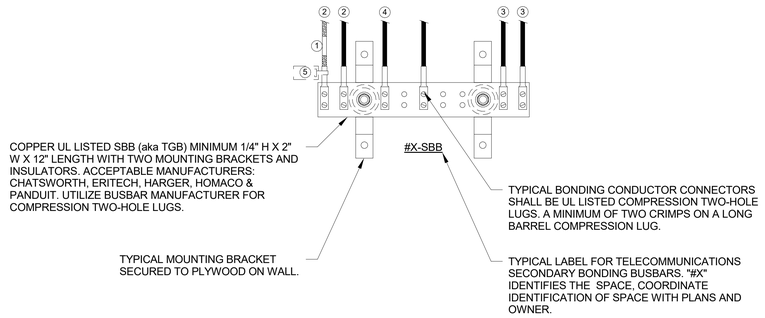
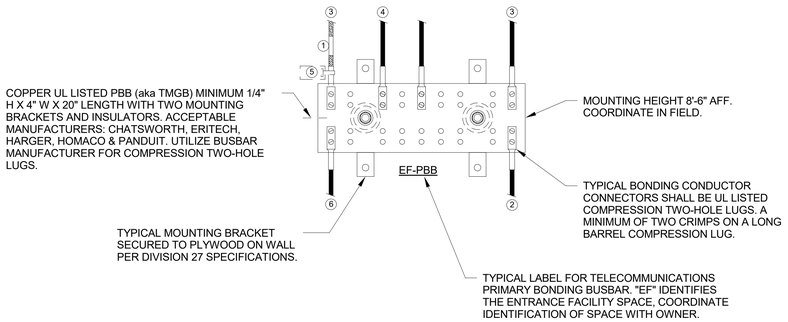


SBB GROUNDING & BONDING NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO TELECOMMUNICATIONS CABLE RUNWAYS(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF TBC AT RELAY RACKS IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A TBC TO A COMPRESSION LUGTAP TO DEDICATED HOME RUN BACK TO THE SBB. SEE DETAILS.
3. TYPICAL TBB(S) THAT INTERCONNECTS ALL IDF SBB(S) WITH THE PBB.
4. BONDING CONDUCTOR TO EACH ARMORED FIBER JACKET. IDF SIDE ONLY.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0



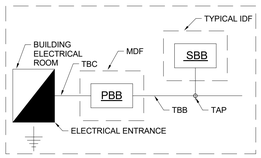
PBB GROUNDING & BONDING RISER NOTES

1. TYPICAL OF ALL BONDING CONDUCTORS CABLE IDENTIFIER/ LABEL.
2. TBC TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE UTILIZED EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. TELECOMMUNICATIONS BONDING BACKBONE (TBB) FOR BACKBONE BONDING CONDUCTOR (BBC), IF APPLICABLE.
4. TYPICAL TBB(S) THAT INTERCONNECTS ALL SBB(S) WITH THE PBB.
5. TYPICAL OF ALL BONDING CONDUCTORS WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (TBC) TO BUILDING GROUNDING ELECTRODE. TBC SHALL NOT BE SMALLER THEN THE TBB.

GROUNDING & BONDING GENERAL NOTES

1. ELECTRICAL CONTRACTOR RESPONSIBILITY -PRIMARY BONDING BUSBAR (PBB), SECONDARY BONDING BUSBAR(S) (SBB), AND THE BONDING CONDUCTORS TO THE BUILDING GROUNDING ELECTRODE, BUILDING STRUCTURAL STEEL, AND BONDING OF ALL SBB(S) TO THE PBB SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL GROUNDING OF OF EQUIPMENT, RACKS, CABINETS, AND DEVICES SHALL BE THE RESPONSIBILITY OF THE DIVISION 27 TECHNOLOGY CONTRACTOR.
3. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
4. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED. WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-C.
5. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-D) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
6. STRUCTURED CABLING CONTRACTOR SHALL PERFORM CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   - A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   - B. THE TGB AND THE NEAREST GROUNDING ELECTRODE.
   - C. EACH TGB AND THE PATHWAY(S), RACK(S), CABINETS(S) AND APPLICABLE EQUIPMENT .

1 GROUNDING AND BONDING DETAIL
SCALE: NS



NOTES:
BBC = BACKBONE BONDING CONDUCTOR
BN = BONDING NETWORK
CBB = COMMON BONDING BUSBAR
CTBB = COMMON TELECOMMUNICATIONS BONDING BACKBONE
IDF = INDEPENDENT DISTRIBUTION FRAME
MDF = MAIN DISTRIBUTION FRAME
PBB = PRIMARY BONDING BUSBAR
RBB = RACK BONDING BUSBAR
RBC = RACK BONDING CONDUCTOR
SBB = SECONDARY BONDING BUSBAR
SBC = SECONDARY BONDING CONDUCTOR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
TBC = TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

2 TYPICAL GROUNDING FLOW DIAGRAM
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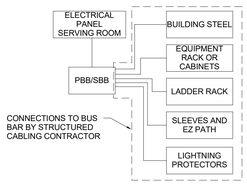

3 TELECOM ROOM BONDING DIAGRAM
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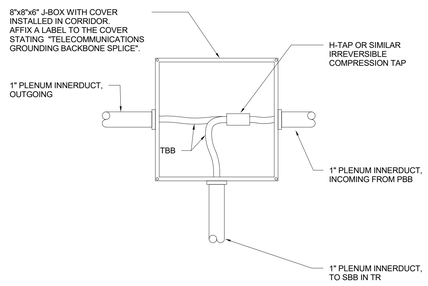

4 TELECOM BONDING BACKBONE SPLICE DETAIL
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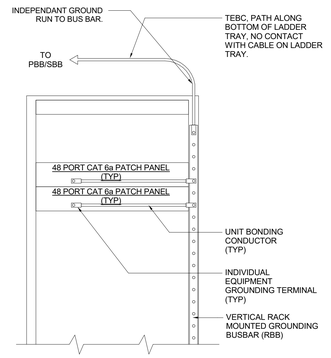

5 RACK MOUNTED GROUNDING BAR DETAIL
SCALE: NS

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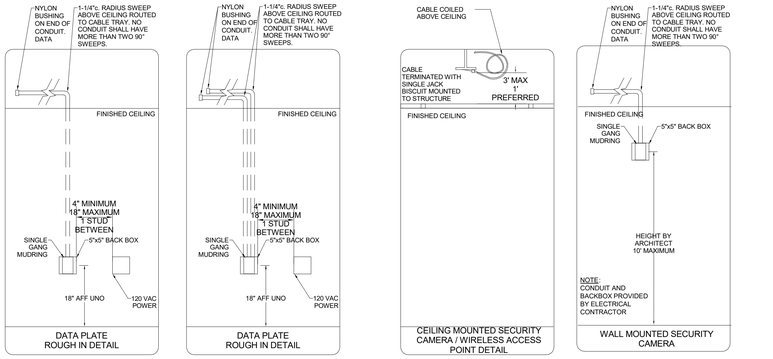
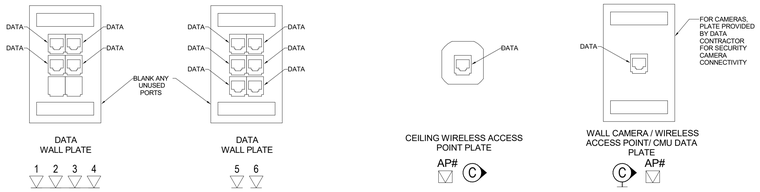
CONSTRUCTION DOCUMENTS

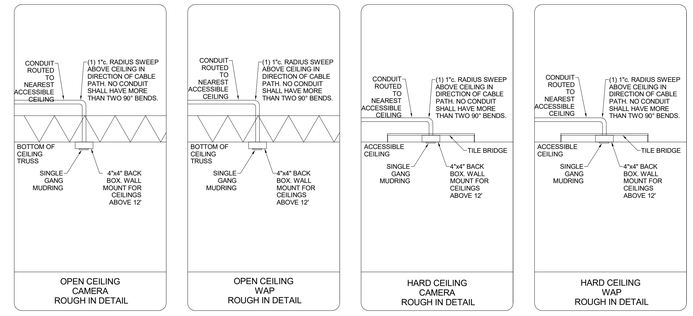
GENERAL NOTE

1. FACE PLATE DETAIL FOR OUTLET CONFIGURATION PURPOSES ONLY. CONTRACTOR TO SELECT TYPE OF FACE PLATE TO MATCH CONNECTIVITY HARDWARE, FLOOR BOX AND/OR MODULAR FURNITURE OPENING.

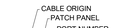




1 DATA ROUGH-IN DETAILS
SCALE: NS

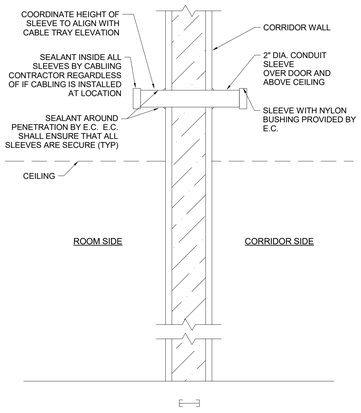


2 HARD AND OPEN CEILING DETAILS FOR CAMERAS AND DATA OUTLETS
SCALE: NTS

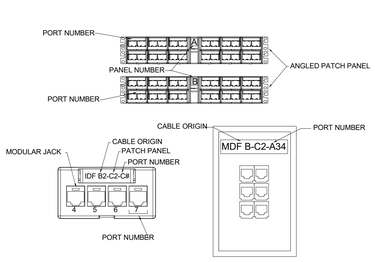


NOTE: 1) FOR DATA JACKS LOCATED ABOVE CEILING (WAP, CAMERA, ETC.)
2) 3/4" SELF-LAMINATING LABEL, WHITE BACKGROUND, BLACK TEXT
3) TEXT IN PLAIN FONT (NO ITALICS, BOLD OR UNDERLINE). TEXT CENTERED IN LABEL. TEXT HEIGHT NOT TO EXCEED 66% OF LABEL HEIGHT.

CEILING GRID LABELING SCHEME

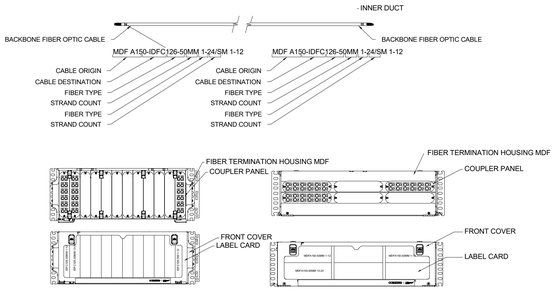


3 TYPICAL CABLING SLEEVE
SCALE: NTS



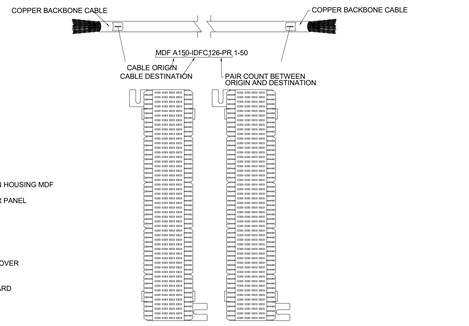
NOTE: 1) CABLE SHALL HAVE IDENTICAL LABEL AT BOTH ENDS
2) EACH PATCH PANEL SHALL BE UNIQUELY LABELED ALPHABETICALLY IN EACH MDF OR IDF
3) EACH PATCH PORT SHALL BE NUMBERED SEQUENTIALLY EX. PATCH PANEL A 1 - 48 , PATCH PANEL B 49 - 96.
4) PRIOR TO LABELING, CONSULT WITH OWNER FOR PROPER IDF NUMBERING. (NO NOT USE ROOM NUMBER.)

HORIZONTAL DATA CABLE LABELING SCHEME



NOTE: 1) CABLE AND INNERDUCT SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

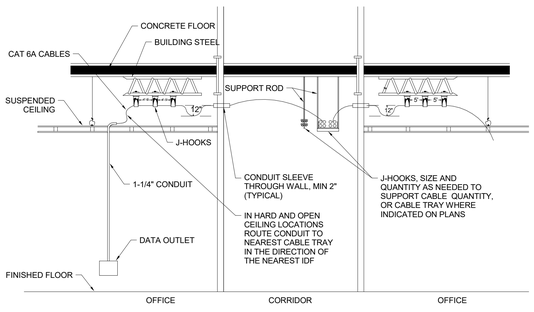
FIBER BACKBONE LABELING SCHEME



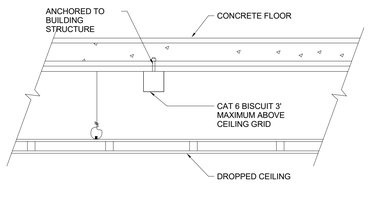
NOTE: 1) PA CONTRACTOR SHALL ENSURE THAT CABLE AND 66 BLOCK SHALL HAVE IDENTICAL LABEL AT BOTH ENDS

PA SYSTEM COPPER BACKBONE LABELING SCHEME

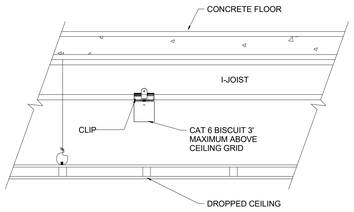
4 LABELING & CABLING SCHEMES
SCALE: NTS



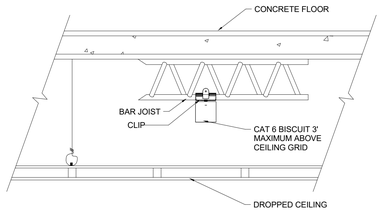
5 CABLE PATHWAY CROSS SECTION
SCALE: NTS



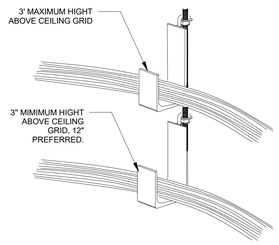
6 DROPPED CEILING MOUNTING DETAIL
SCALE: NS



7 I-JOIST MOUNTING DETAIL
SCALE: NS



8 BAR JOIST MOUNTING DETAIL
SCALE: NS



9 PANDUIT J-HOOK DETAIL
SCALE: NTS

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jeff Scott Coombs
BICSI ID # 221090
EXPIRES 12-31-27
RCDD

Revision Schedule

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Approved	Approver

Title

TECHNOLOGY - DETAILS

Sheet

T502

CONSTRUCTION DOCUMENT

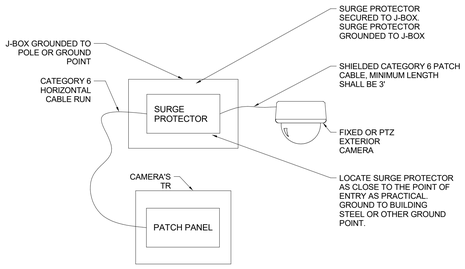
CONSTRUCTION DOCUMENTS

11/10/2025 8:45:00 AM

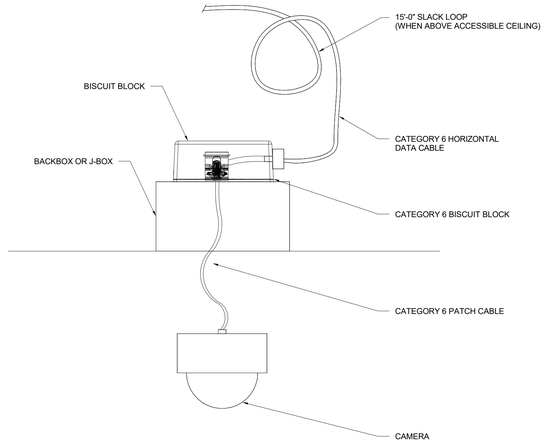
CONSTRUCTION DOCUMENTS

GENERAL NOTES:

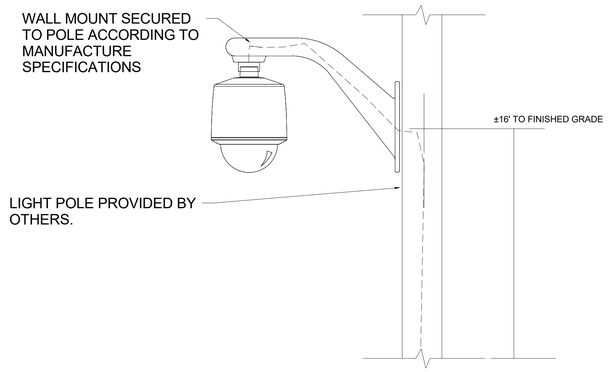
1. REFER TO SECURITY SCHEDULE AND WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE WEATHER PROOF/WATER RESISTANT ENCLOSURE FOR ALL EXTERIOR CAMERAS.
3. ALL CABLES FROM CAMERAS SHALL BE INSTALLED IN FLEXIBLE AND/OR RIGID CONDUIT.
4. ALL MOUNTING DETAILS ARE REFERENCE FOR ALL FIXED DOME, 180°, 360°, PTZ, AND "BULLET/BOX" CAMERAS.



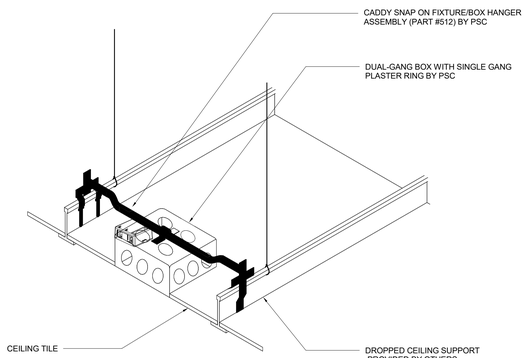
1 CAMERA SIDE SURGE PROTECTOR FOR EXTERIOR CAMERAS
SCALE: NS



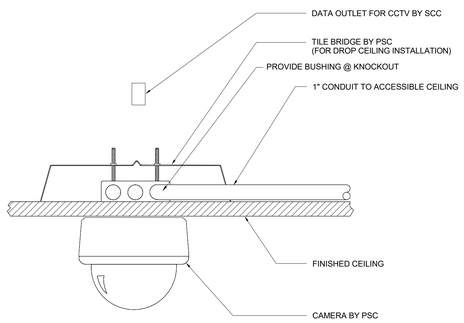
2 TYPICAL CAMERA INSTALLATION SECTION DETAIL
SCALE: NS



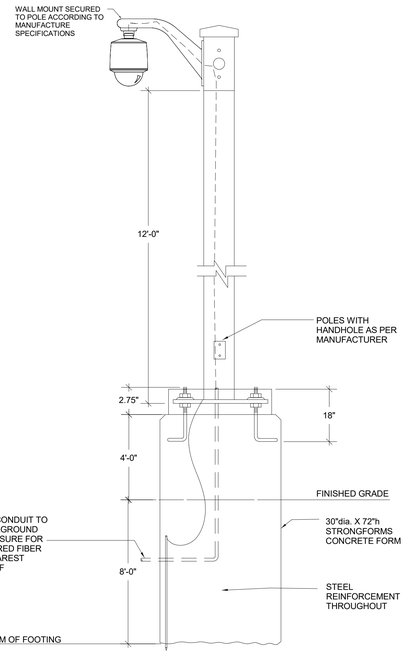
3 LIGHT POLE MOUNTED CAMERA DETAIL
SCALE: NS



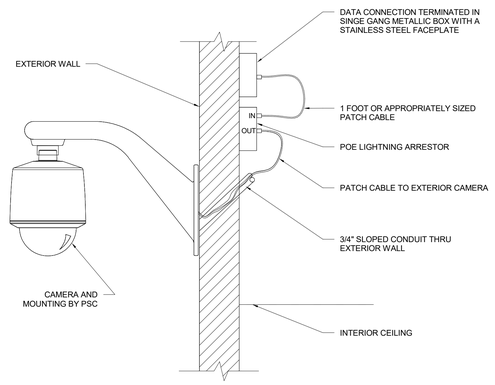
4 TILE BRIDGE DETAIL
SCALE: NS



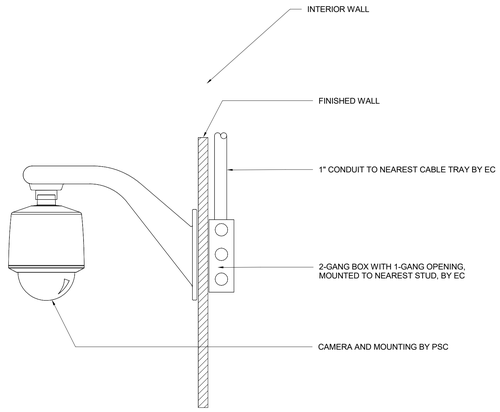
5 CEILING MOUNTED CAMERA DETAIL
SCALE: NS



6 PARKING AREA CAMERA POLE DETAIL (STRONGFORM-18-5, SP-AB, SP-TOB, SP-12)
SCALE: NTS



7 EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NTS



8 WALL MOUNTED CAMERA DETAIL
SCALE: NS

CAMERA TYPE	MANUFACTURER	MODEL NUMBER	GENERAL DESCRIPTION
C1	HANWHA	XND-C7083RV	4MP INTERIOR DOME, IR, AI
C2	HANWHA	XNV-9083RZ	8MP EXTERIOR DOME, IR, PTRZ, AI
C3	HANWHA	PNM-C12083RVD	2X6MP INTERIOR/EXTERIOR DUAL, IR, AI
C4	HANWHA	PNM-9085RQZ1	4X5MP EXTERIOR DOME, PTRZ, IR
C5	HANWHA	PNM-9031RV	15MP INTERIOR/EXTERIOR STITCHED, IR
C6	HANWHA	XNF-9013RV	12MP FISHEYE, IR, AI

9 CAMERA SCHEDULE
SCALE: NTS

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI Jeff Scott Coombs BICSI ID # 221090 EXPIRES 12-31-27 RCDD

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Sheet Information	
Date	11-10-25
Job Number	23-012
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Checked	Checker
Approved	Approver

Title

TECHNOLOGY - SECURITY DETAILS

Sheet

T600

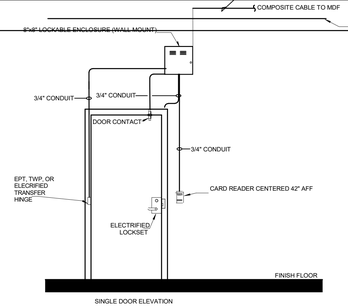
CONSTRUCTION DOCUMENT

Autodesk Docs://Pasadena ISD - Softball Complex/PISD - Softball Complex - TECH - v23.rvt

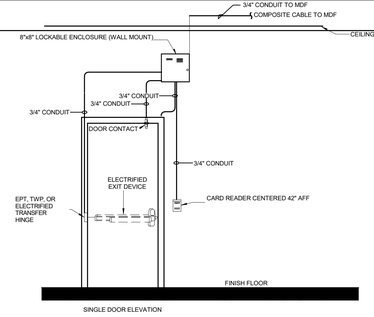
CONSTRUCTION DOCUMENTS

SHEET GENERAL NOTES:

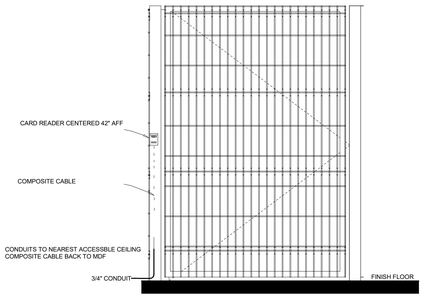
1. CONDUIT ROUGH-IN IS A GUIDE FOR WHAT WILL BE REQUIRED FOR EACH DOOR. AS DOOR COMPONENTS CHANGE, EXACT CONDUIT LOCATION WILL ALSO NEED TO BE ADJUSTED.
2. CARD READERS SHOWN WITH AN ANNOTATION "M" NEXT TO THE CARD READER ARE TO BE MULLION MOUNTED AND NO CARD READER ROUGH-IN IS REQUIRED.
3. PROTECT EXISTING-TO-REMAIN ACCESS CONTROL DEVICES AND CABLE THROUGHOUT RENOVATION WORK. IF CABLE AND/OR DEVICES ARE DAMAGED, SECURITY CONTRACTOR TO REPLACE WITH NEW.



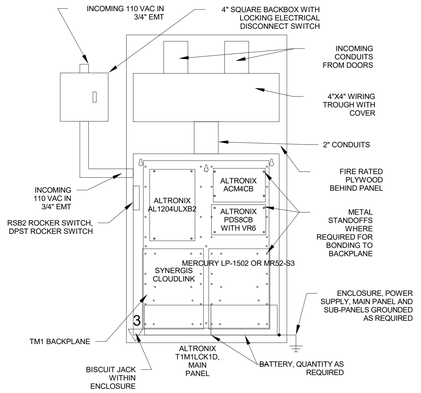
1 ACCESS CONTROL - PLAM / INTERIOR DOOR ELEVATION
SCALE: NTS



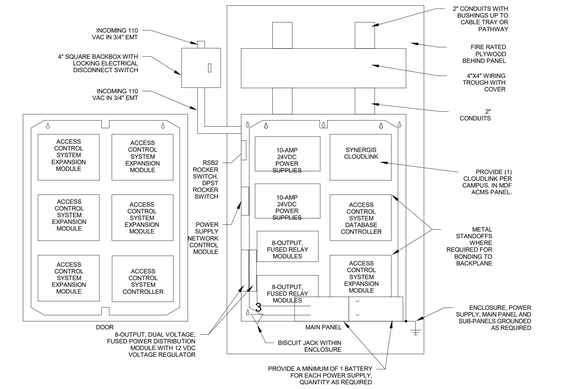
2 ACCESS CONTROL - STEEL/HOLLOW METAL DOOR.
SCALE: NTS



3 ACCESS CONTROL - GATE DOOR
SCALE: NTS

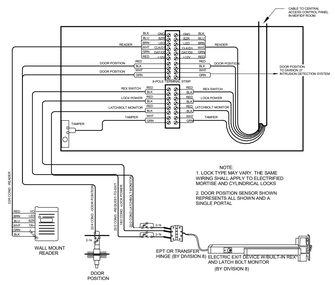


4 TYPICAL ACCESS CONTROL ENCLOSURE FOR 4 DOORS (IN MDF OR IDF)
SCALE: NTS



5 TYPICAL ACCESS CONTROL ENCLOSURE FOR UP TO 16 DOORS (IN MDF OR IDF)
SCALE: NTS

READER #	DOOR #	DRAWING	PANEL LOCATION	DEVICE TYPE	PANEL TYPE	NOTES
1	Ticket Booth	T2.02.1	MDF	SCHLAGE MT15	LP1502-M1.1	
2	MDF	T2.02.1	MDF	SCHLAGE MT15	LP1502-M1.2	
3	Consession Stand	T2.02.1	MDF	SCHLAGE MT15	MR52-S3-M1.1	
4	Pressbox	T2.02.2	MDF	SCHLAGE MT15	MR52-S3-M1.2	
5	Keypad - Pressbox	T2.02.2	MDF	SCHLAGE MT15	MR52-S3-M2.1	ARM/DISARM CR FOR ADMIN BUILDING IDS
6	Keypad - Ticket Booth	T2.02.2	MDF	SCHLAGE MT15	MR52-S3-M2.2	ARM/DISARM CR FOR ADMIN BUILDING IDS
7	Entrance Gate	T2.02.1	MDF	SCHLAGE MT11	MR52-S3-M3.1	
8	Spare	T2.02.1	MDF	SCHLAGE MT11	MR52-S3-M3.2	
9	Spare	T2.02.1	MDF	SCHLAGE MT15	MR52-S3-M4.1	
10	Spare	T2.02.1	MDF	SCHLAGE MT15	MR52-S3-M4.1	



6 ACCESS CONTROL - WIRING DETAIL - EXIT DEVICE W/ BUILT-IN REX
SCALE: NTS

7 CARD READER SCHEDULE
SCALE: NTS

SHEET GENERAL NOTES:

1. CONDUIT ROUGH-IN IS A GUIDE FOR WHAT WILL BE REQUIRED FOR EACH DOOR. AS DOOR COMPONENTS CHANGE, EXACT CONDUIT LOCATION WILL ALSO NEED TO BE ADJUSTED.
2. CARD READERS SHOWN WITH AN ANNOTATION "M" NEXT TO THE CARD READER ARE TO BE MULLION MOUNTED AND NO CARD READER ROUGH-IN IS REQUIRED.
3. WHERE A DOOR BELL IS INDICATED ON PLANS NEAR A CARD READER LOCATION, MOUNT THE DOOR BELL ADJACENT TO A CARD READER.
4. ACCESS CONTROL ENCLOSURES TO UTILIZE ALTRONIX WM- SERIES MAGNETIC CABLE MOUNTS. CABLES TO BE BUNDLED AND ATTACHED TO MAGNETIC MOUNTS WITH PLENUM-RATED VELCRO STRAPS, RASPBERRY SIDE FACING OUTWARD. ZIP TIES WILL NOT BE ACCEPTED.
5. AT ALL F-TYPE DOORS, PROVIDE HORIZONTAL AND/OR VERTICAL CROSS BORES AS REQUIRED FOR INSTALLATION OF ACCESS CONTROL HARDWARE; DIV.8.
6. DATA OUTLETS FOR ACMS PANELS REQUIRE CONNECTION(S) FOR MAIN DATABASE CONTROLLER AND POWER SUPPLY NETWORK MONITORING MODULE (2 DATA TOTAL). IN FACILIITY MDF, PROVIDE ADDITIONAL DATA OUTLET FOR SYNERGIS CLOUDLINK (3 DATA TOTAL)

CONSTRUCTION DOCUMENTS

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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jeff Scott Coombs
BICSI ID # 221090
EXPIRES 12-31-27
RCDD

Revision Schedule

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Approved	Approver

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TECHNOLOGY - SECURITY DETAILS

Sheet

T601

CONSTRUCTION DOCUMENT

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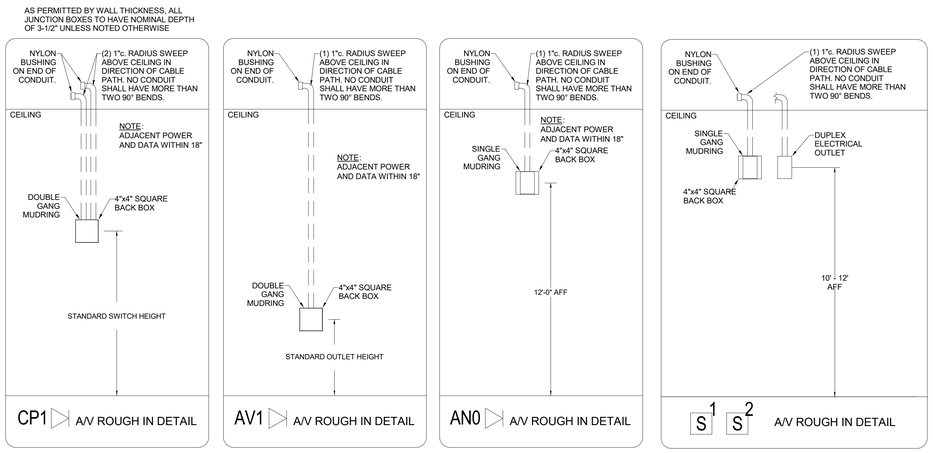
CONSTRUCTION DOCUMENTS



1 A/V ROUGH-IN DETAILS, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
SCALE: NTS

	PRODUCT			CONNECTED TO…		DIVISION	
Number	**Manufacturer**	**Model**	**Description**	**Paging**	**Program/Local**	**Provided By**	**Comments**
S1	Community	R.5-99TZ	Horn Loudspeaker		X	27 41 00	
S2	Community	R.25-94TZ	Horn Loudspeaker		X	27 41 00	

2 SPEAKER SCHEDULE
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PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jeff Scott Coombs
BICSI ID # 221090
EXPIRES 12-31-27
RCDD

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TECHNOLOGY - AV DETAILS

Sheet

T700

CONSTRUCTION DOCUMENT

CONSTRUCTION DOCUMENTS

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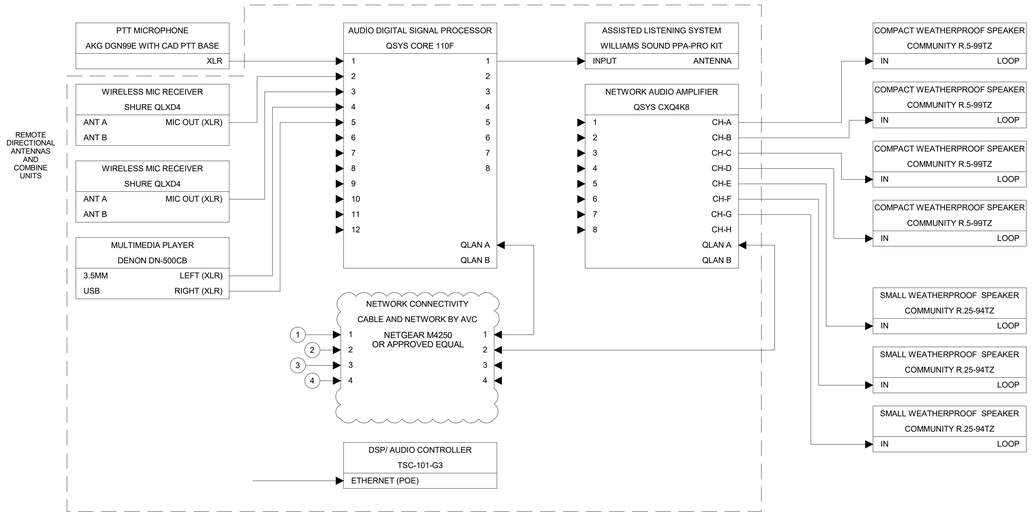
CONSTRUCTION DOCUMENTS



1 AV LINE DIAGRAMS

SCALE: NTS FEILD COORDINATE EXACT LOCATION

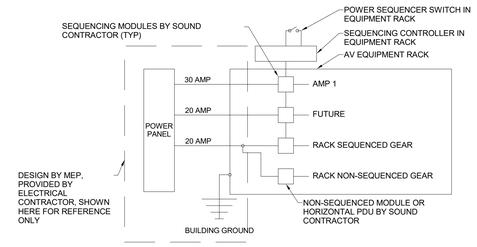
ADDITIONAL HARDWARE (SPLIT EVENLY BETWEEN BOTH FIELDS):
(2) - SHURE QLXD SM58 WIRELESS TRANSMITTER - QLXD2/B58
(2) - SHURE QLXD1 BELTPACK TRANSMITTER
(2) - POINT SOURCE EARSET (CO-8WS - TAN OR LIGHT BEIGE WITH TA4F)
(1) - SHURE SRH440A PRO HEADPHONES
(2) - SHURE ANTENNA AND COMBINER KIT:
(1) UA221 PASSIVE ANTENNA SPLITTER (INCLUDES ALL NECESSARY INTERCONNECT CABLES)
(2) UA850 50' ANTENNA CABLE
(2) UABIAST BIAS-T MODULE
(2) UA874US ACTIVE DIRECTIONAL ANTENNA

SOUND AUDIO PATCH CABLES
***NOTE ALL CABLES MUST BE RED HEAT SHRINK LABELED W/ 2 LINES;
1ST LINE - PASADENA ISD
2ND LINE - HIGH SCHOOL BASEBALL AND SOFTBALL COMPLEX
(2) WHIRLWIND 10' STAR QUAD MIC CABLE W/ NEUTRIK X-SERIES CONNECTORS AND BLUE BOOTS
(2) WHIRLWIND 25' STAR QUAD MIC CABLE W/ NEUTRIK X-SERIES CONNECTORS AND GREEN BOOTS

ALS SYSTEM:
PROVIDE BASE WILLIAMS SOUND PPA PRO KIT OR LISTENTECH EQUAL
PROVIDE ALL REQUIRED NECK LOOPS AND RECEIVERS TO MEET ADA REQUIREMENTS
COORDINATE ALS SIGNAGE WITH OWNER AND ARCHITECT

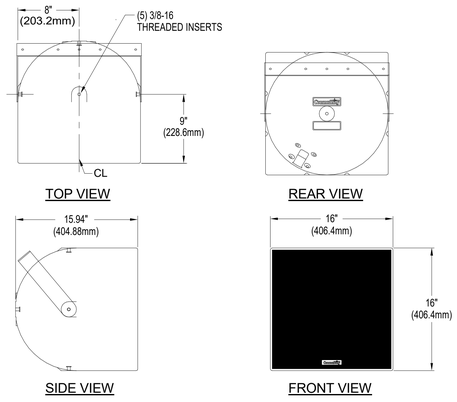
3 MISCELLANEOUS HARDWARE AND EQUIPMENT

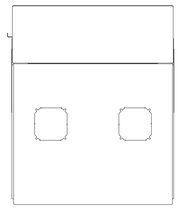
SCALE: NTS



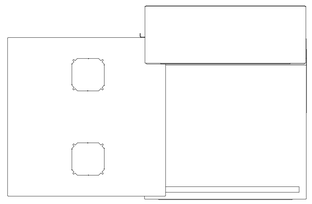
4 ELECTRICAL POWER REQUIREMENTS FOR COMPETION SOFTBALL AUDIO RACK

SCALE: NTS

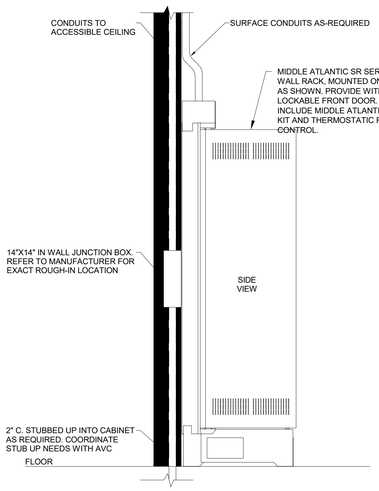


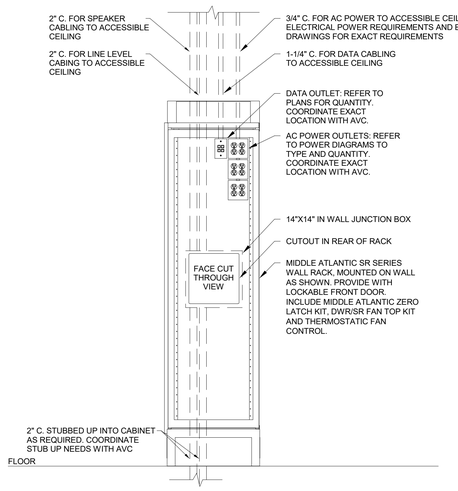


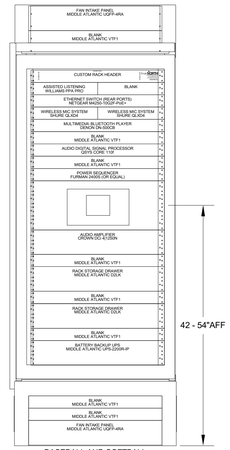
MIDDLE ATLANTIC SR24-28
TOP VIEW



MIDDLE ATLANTIC SR24-28
TOP (OPEN) VIEW







BASEBALL AND SOFTBALL
AV SYSTEMS RACK LAYOUT

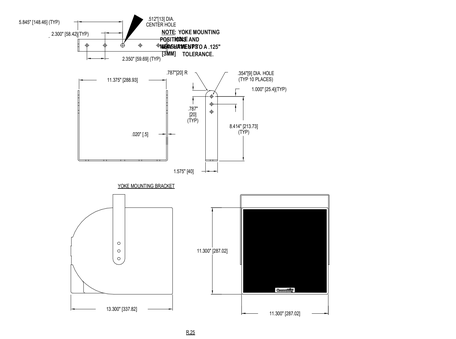
MIDDLE ATLANTIC SR24-28
(FRONT VIEW) WITH
VENTED FRONT DOOR,
THERMAL MANAGEMENT WITH QUIET
FAN INTAKE AND EXHAUST

2 TYPICAL MIDDLE ATLANTIC SR SERIES SOUND RACK ROUGH-IN DETAIL

SCALE: NTS FEILD COORDINATE EXACT LOCATION

5 COMMUNITY R.5-99TZ LOUDSPEAKER WITH YOKE BRACKET

SCALE: NTS CONTRACTOR TO SUPPLY AIMING AND MOUNTING DETAILS WITH SUBMITTAL FOR APPROVAL AND FIELD COORDINATE EXACT LOCATIONS. FOR END MOUNTS PROVIDE WITH POLAR FOCUS WALL MOUNT AND U-BRACKET ATTACHEMENTS



6 COMMUNITY R.25-94TZ LOUDSPEAKER WITH YOKE BRACKET

SCALE: NTS CONTRACTOR TO SUPPLY AIMING AND MOUNTING DETAILS WITH SUBMITTAL FOR APPROVAL AND FIELD COORDINATE EXACT LOCATIONS. RIG TO PRESS BOX - AFFIX TO STUDS WITH WEATHER RATED HARDWARE

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www.tnsg.com CONSULTING SINCE PERSONAL ph 800.662.4580

PASADENA ISD SOFTBALL COMPLEX

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Jeff Scott Coombs
BICSI ID # 221090
EXPIRES 12-31-27
RCDD

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	11-10-25
Job Number	23-012
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Approved	Approver

Title

TECHNOLOGY - AV DETAILS

Sheet

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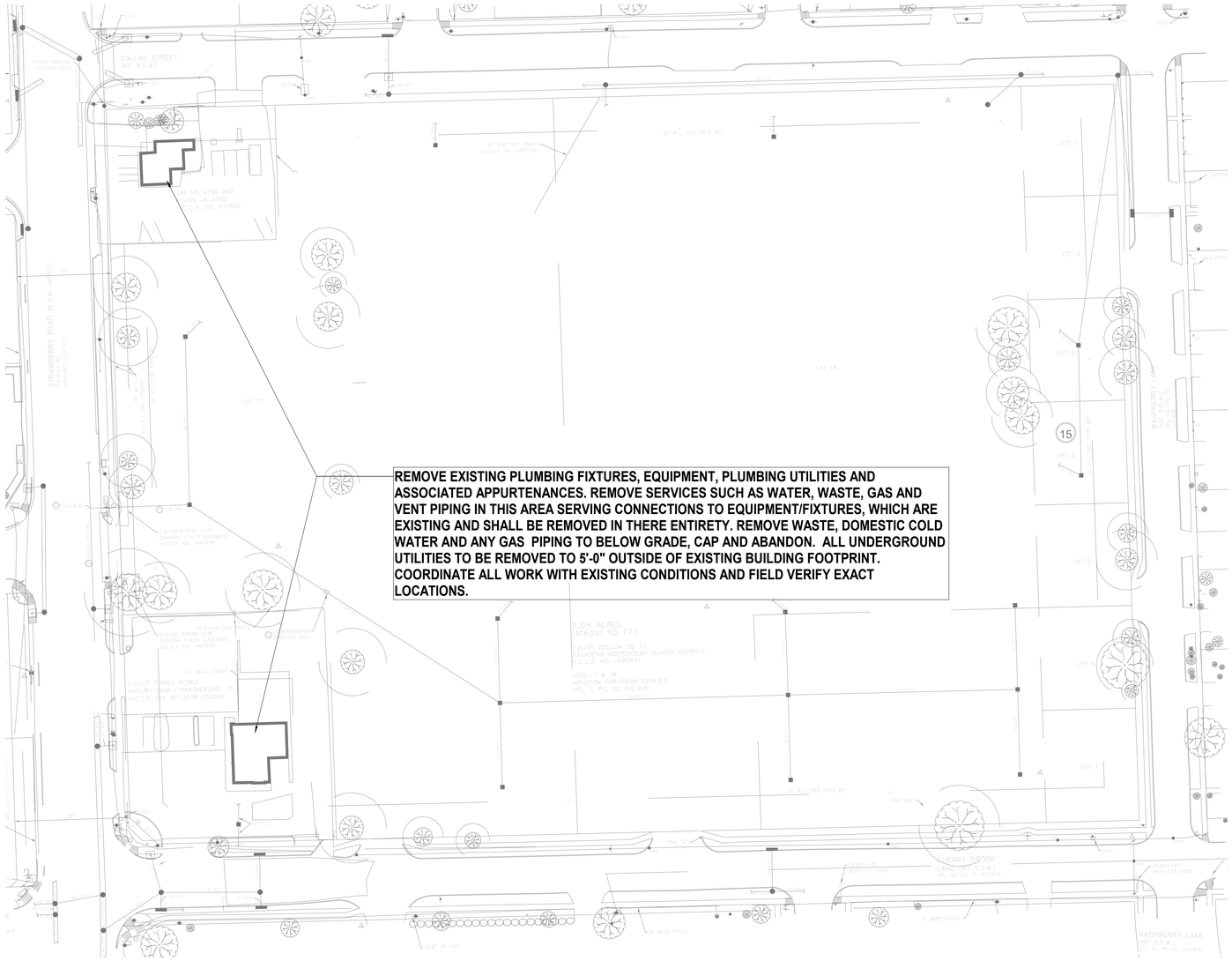
DALLAS STREET
(40' R.O.W.)
STRAWBERRY ROAD (MAIN STREET)
(VARIABLE WIDTH R.O.W.)
CONCRETE SURFACE
RASPBERRY LANE
(60' R.O.W.)
CONCRETE SURFACE
CHERRY BROOK
LANE (50' R.O.W.)
VOL. 55, PG. 31, H.C.M.R.
LOT 17
LOT 18
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
15
9.326 ACRES
(406,241 SQ. FT.)
CALLED 326,234 SQ. FT.
PASADENA INDEPENDENT SCHOOL DISTRICT
H.C.C.F. NO. H583641
LOTS 17 & 18
HOUSTON SUBURBAN ESTATES
VOL. 7, PG. 33, H.C.M.R.
CALLED 9.0000 ACRES
HAGUEY FAMILY PARTNERSHIP, LP
H.C.C.F. NO. RP-2018-212240
CALLED 9.0106 ACRE
GENERAL UTILITY EASEMENT
H.C.C.F. NO. H443538
CALLED 0.0000 ACRES
GENERAL UTILITY EASEMENT
H.C.C.F. NO. H443538
20' B.L. (SEE NOTE #5)
10' ELECTRIC ESMT.
H.C.E.P. No. 5467159
6' CHAIN LINK FENCE
6' WOOD FENCE
6' METAL FENCE
CONCRETE
ASPHALT
SIDEWALK
CURB INLET
MANHOLE
FIRE HYDRANT
WATER VALVE
GAS VALVE
GAS METER
ELECTRIC METER
ELECTRIC BOX
TELEPHONE BOX
TELEPHONE PEDESTAL
CABLE TV BOX
SIGN
LIGHT POLE
UTILITY POLE
GUY WIRE
TREE
SHRUB
BUSH
FLOWER BED
GRASS
GRAVEL
CONCRETE PAD
A/C UNIT
A/C PAD
TRANSFORMER
TRANSFORMER PAD
GENERATOR
GENERATOR PAD
GAS LINE
GAS LINE (SEE NOTE #5)
WATER LINE
WATER LINE (SEE NOTE #5)
SANITARY SEWER LINE
SANITARY SEWER LINE (SEE NOTE #5)
STORM SEWER LINE
STORM SEWER LINE (SEE NOTE #5)
ELECTRIC LINE
ELECTRIC LINE (SEE NOTE #5)
TELEPHONE LINE
TELEPHONE LINE (SEE NOTE #5)
CABLE TV LINE
CABLE TV LINE (SEE NOTE #5)
OVERHEAD UTILITY LINE
OVERHEAD UTILITY LINE (SEE NOTE #5)
FIRE LINE
FIRE LINE (SEE NOTE #5)
IRRIGATION LINE
IRRIGATION LINE (SEE NOTE #5)
IRRIGATION CONTROL VALVE
IRRIGATION CONTROL VALVE (SEE NOTE #5)
IRRIGATION QUICK COUPLER VALVE
IRRIGATION QUICK COUPLER VALVE (SEE NOTE #5)
IRRIGATION BACKFLOW PREVENTER
IRRIGATION BACKFLOW PREVENTER (SEE NOTE #5)
IRRIGATION CONTROLLER
IRRIGATION CONTROLLER (SEE NOTE #5)
IRRIGATION RAIN SENSOR
IRRIGATION RAIN SENSOR (SEE NOTE #5)
IRRIGATION FLOW SENSOR
IRRIGATION FLOW SENSOR (SEE NOTE #5)
IRRIGATION MASTER VALVE
IRRIGATION MASTER VALVE (SEE NOTE #5)
IRRIGATION PRESSURE REGULATING VALVE
IRRIGATION PRESSURE REGULATING VALVE (SEE NOTE #5)
IRRIGATION ISOLATION VALVE
IRRIGATION ISOLATION VALVE (SEE NOTE #5)
IRRIGATION DRIP LINE
IRRIGATION DRIP LINE (SEE NOTE #5)
IRRIGATION SPRINKLER
IRRIGATION SPRINKLER (SEE NOTE #5)
IRRIGATION BUBBLER
IRRIGATION BUBBLER (SEE NOTE #5)
IRRIGATION DRIP EMITTER
IRRIGATION DRIP EMITTER (SEE NOTE #5)
IRRIGATION DRIP EMITTER (SEE NOTE #5)
IRRIGATION DRIP EMITTER (SEE NOTE #5)

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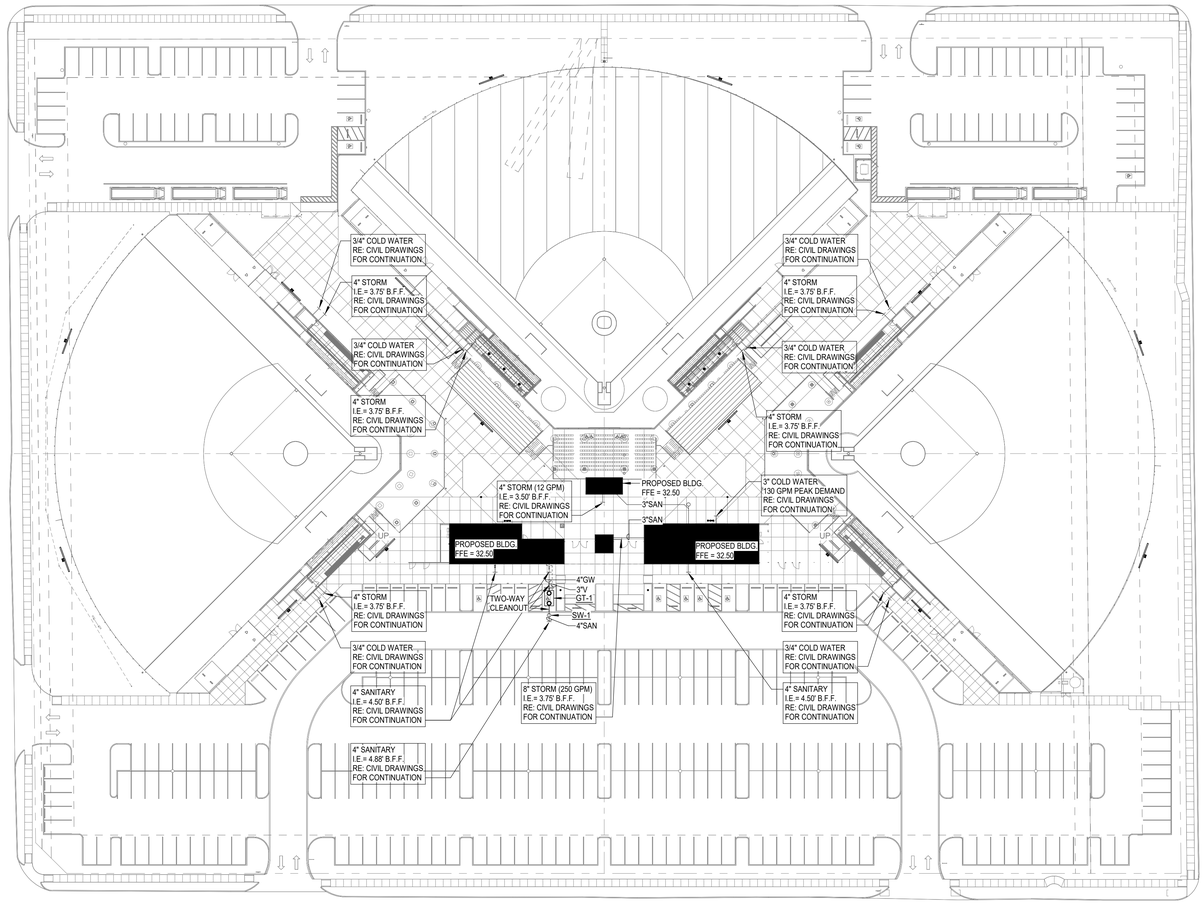
PLUMBING GENERAL NOTES:

1. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 4" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BUILDING.
2. DO NOT SCALE THE PLUMBING DRAWINGS. REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
3. REFER TO CIVIL DRAWINGS FOR UTILITY STUB CONTINUATIONS. THIS CONTRACTOR TO MAKE CONNECTIONS AS REQUIRED FROM STUB LOCATIONS TO SITE UTILITIES.
4. ALL TRENCHES EXITING THE SLAB TO THE EXTERIOR OF THE BUILDING WILL REQUIRE A BENTONITE PLUG. REFER TO ARCHITECTURAL DRAWINGS FOR FUTHER INFORMATION
5. INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, COORDINATE FINAL INVERT ELEVATIONS OF BUILDING SANITARY AND STORM OUTFALLS WITH SITE UTILITY CONTRACTOR. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO SITE UTILITIES.
6. REFER TO LATEST CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATIONS



N

1 **PLUMBING SITE PLAN**
Scale: 1" = 40'-0"

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS
80219
LICENSED
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
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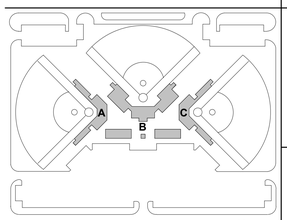
Checked	Checker
Approved	Approver



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PLUMBING SITE PLAN

Sheet

P1.00

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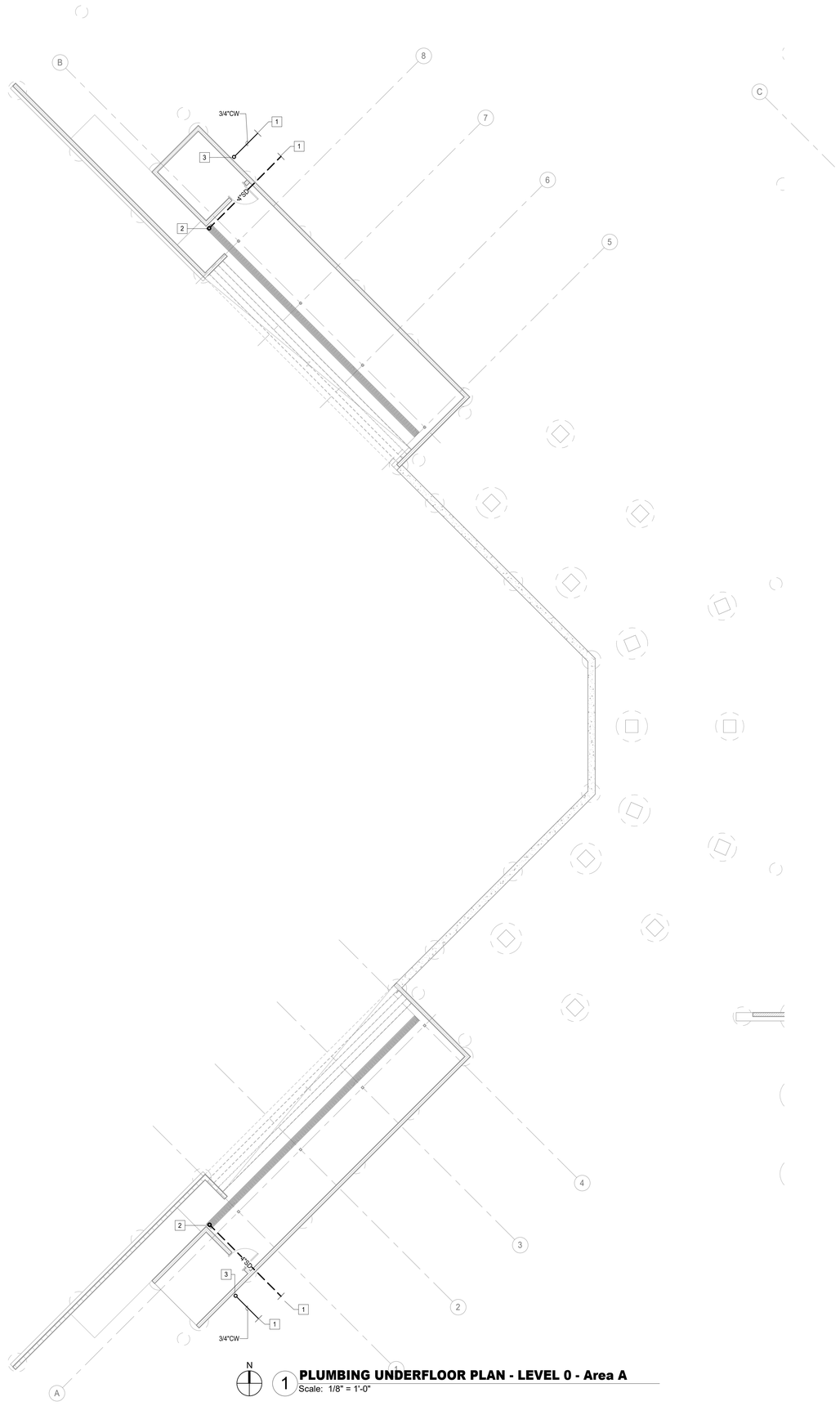

N

1 **PLUMBING UNDERFLOOR PLAN - LEVEL 0 - Area A**

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

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01 FOR PLUMBING DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.
5. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 4" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BUILDING.

PLUMBING KEYED NOTES "☒"

1	RE: SHEET P1.00 FOR CONTINUATION
2	4" STORM FROM ABOVE.
3	3/4" COLD WATER UP.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
11-10-25

Revision Schedule

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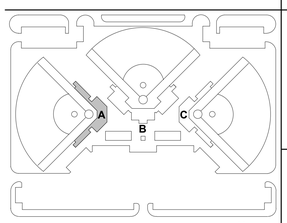
Checked	Checker
Approved	Approver



Title

PLUMBING UNDERFLOOR PLAN - AREA A

Sheet

P2.01

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PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.

2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES

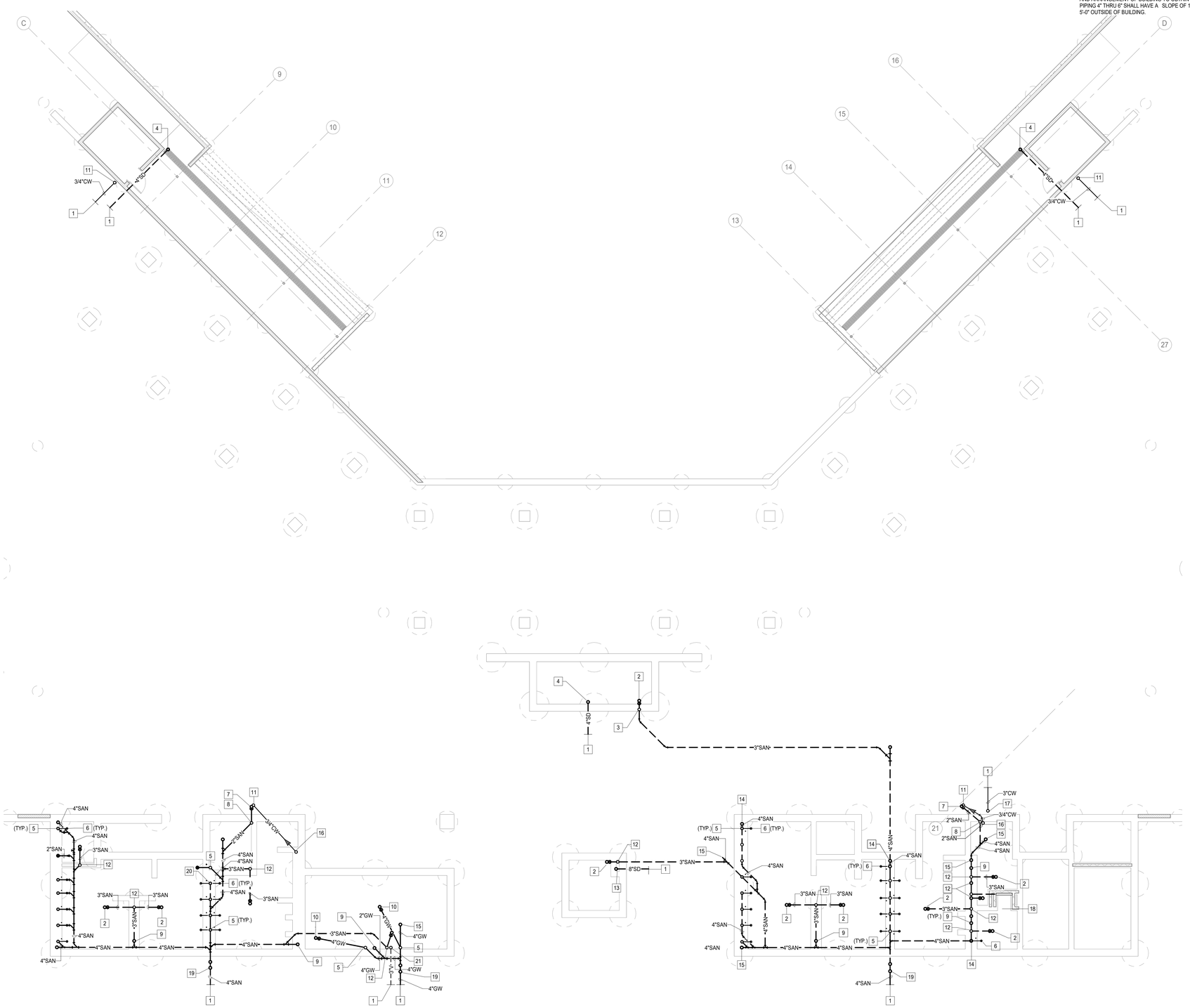
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.

4. REFER TO SHEETS P5.01 FOR PLUMBING DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.

5. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 4" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BULDING.

PLUMBING KEYED NOTES "☒"

1	RE: SHEET P1.00 FOR CONTINUATION
2	3" WASTE FROM DRAIN ABOVE PROVIDE P-TRAP.
3	
4	4" STORM FROM ABOVE.
5	4" WASTE DOWN, 2" VENT UP.
6	4" WASTE FROM ABOVE. RE: PLUMBING DETAIL SHEET P501 FOR CLOSET FLANGE CONNECTION.
7	PROVIDE 2" WASTE FROM ABOVE WITH P-TRAP.
8	2" WASTE DOWN, 2" VENT UP.
9	2" WASTE FROM ABOVE.
10	4" WASTE FROM DRAIN ABOVE. PROVIDE P-TRAP.
11	3/4" COLD WATER UP.
12	3" WASTE DOWN, 2" VENT UP.
13	8" STORM FROM ABOVE.
14	4" WASTE FROM ABOVE.
15	4" WASTE FROM CLEANOUT ABOVE.
16	3/4" COLD WATER FROM ABOVE SLAB.
17	3" COLD WATER UP.
18	2" WASTE FROM DRAIN ABOVE PROVIDE P-TRAP.
19	4" WASTE FROM TWO-WAY CLEANOUT ABOVE.
20	4: WASTE DOWN, 4" VENT UP TO 4"VTR
21	3" VENT UP.



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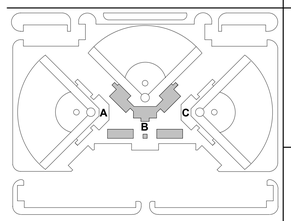
1 **PLUMBING UNDERFLOOR PLAN - LEVEL 0 - Area B**

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



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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

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PLUMBING UNDERFLOOR PLAN - AREA B

Sheet

P2.02

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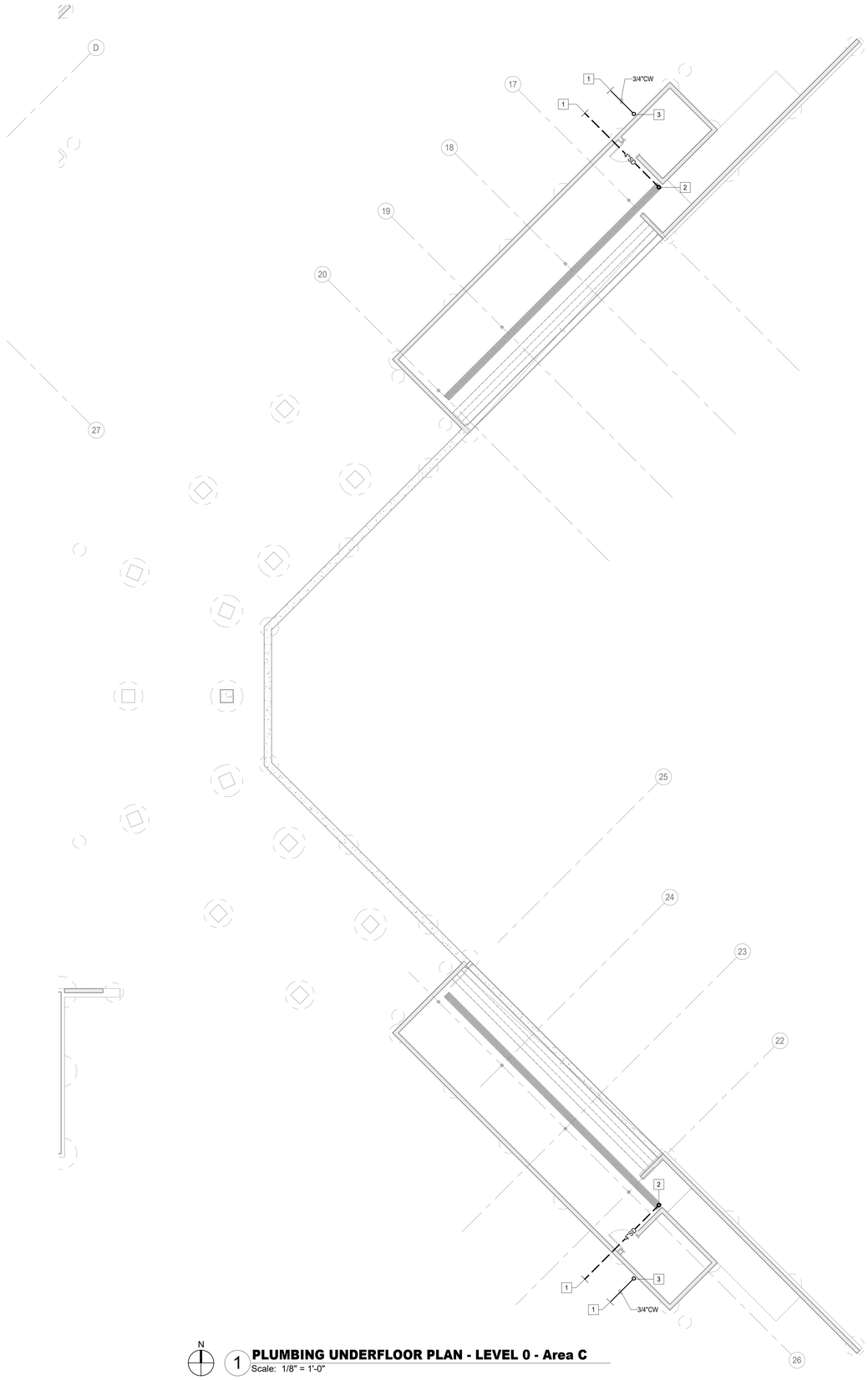

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1 **PLUMBING UNDERFLOOR PLAN - LEVEL 0 - Area C**
Scale: 1/8" = 1'-0"

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01 FOR PLUMBING DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.
5. IT IS IMPRACTICAL DUE TO THE STREET SEWER, STRUCTURAL FEATURES AND ARRANGEMENT OF BUILDING TO OBTAIN A SLOPE OF 1/4" PER FOOT PIPING 4" THRU 6" SHALL HAVE A SLOPE OF 1/8" PER FOOT BELOW BUILDING TO 5'-0" OUTSIDE OF BUILDING.

PLUMBING KEYED NOTES "☒"

1 RE: SHEET P1.00 FOR CONTINUATION
2 4" STORM FROM ABOVE.
3 3/4" COLD WATER UP.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

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11-10-25

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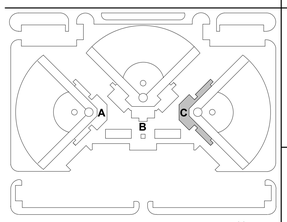
Approved	Approver



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Title

PLUMBING UNDERFLOOR PLAN - AREA C

Sheet

P2.03

CONSTRUCTION DOCUMENTS

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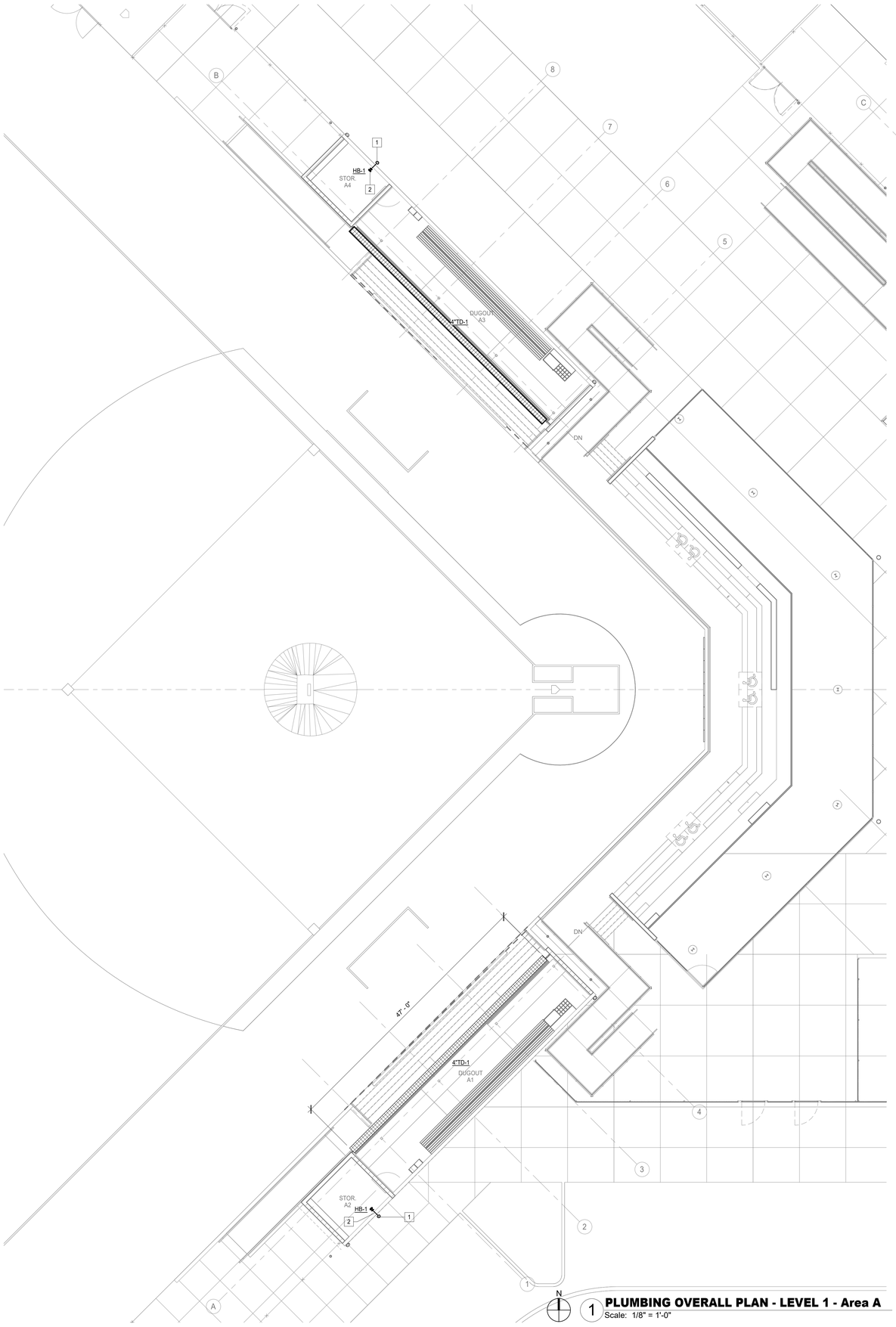

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1 **PLUMBING OVERALL PLAN - LEVEL 1 - Area A**
Scale: 1/8" = 1'-0"

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01.1 FOR DETAILS AND SHEET P6.02.1 FOR SCHEDULES
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01.1-P5.03.1 FOR PLUMBING DETAILS AND SHEETS P6.01.1 AND P6.02.1 FOR PLUMBING SCHEDULES.
5. PROVIDE SHOCK ARRESTORS AND ACCESS PANELS AT ALL STAINLESS STEEL SINKS

PLUMBING KEYED NOTES "☒"

1 3/4" INCOMING COLD WATER ENTRY. RE: SHEET P5.01 FOR DETAIL.

2 3/4" COLD WATER, SLEEVE THRU WALL, ROUGH-IN AND CONNECT TO FIXTURE(S). COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF HB-1 WITH ARCHITECT/OWNER. RE: SHEET P5.01 FOR DETAIL

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New Softball Complex

Pasadena, Texas

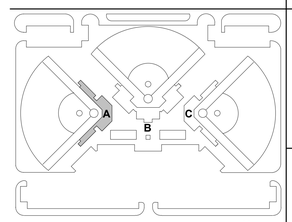
PASADENA INDEPENDENT SCHOOL DISTRICT



Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver



Title

PLUMBING FLOOR PLAN - AREA A

Sheet

P3.01

CONSTRUCTION DOCUMENTS

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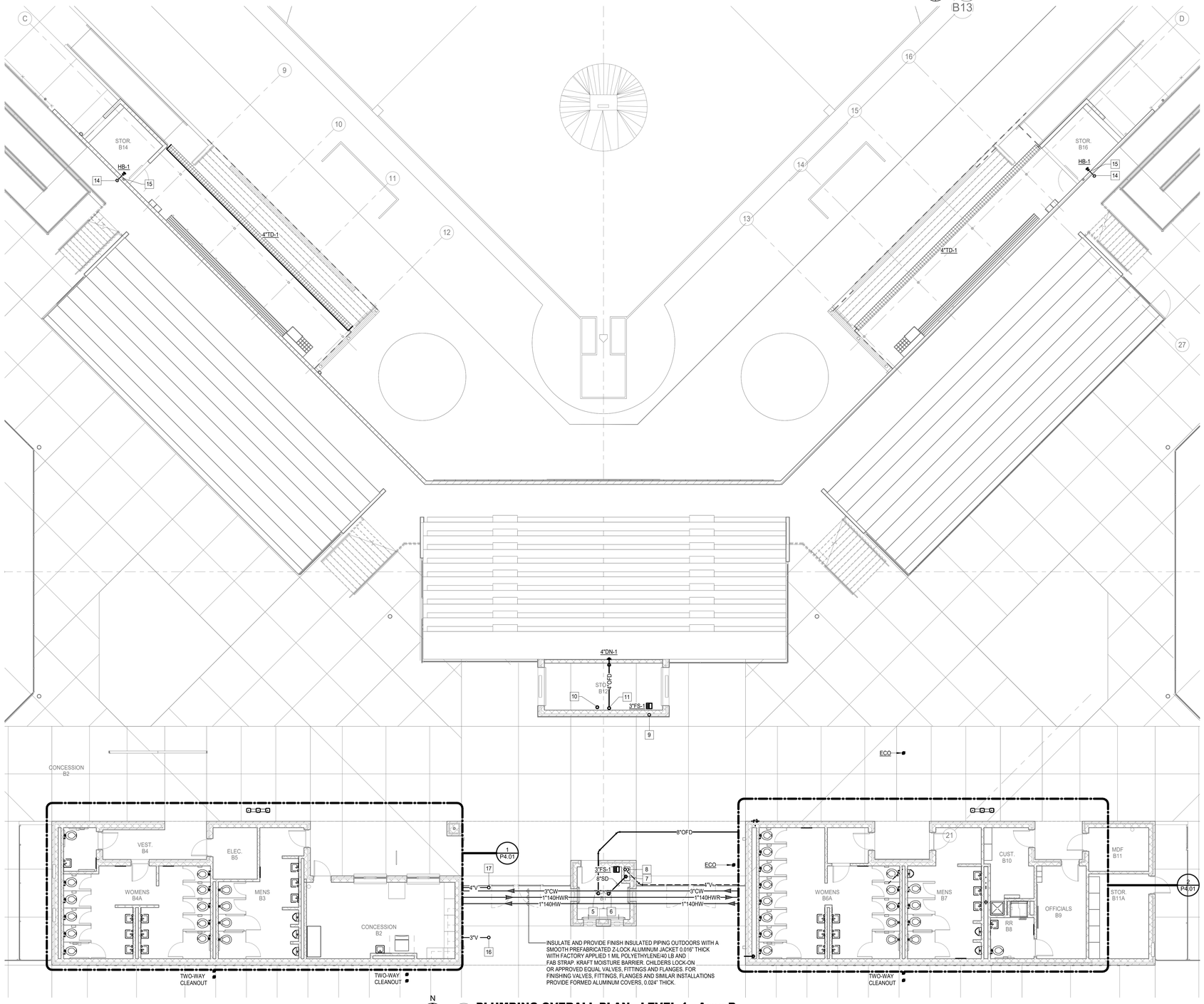

N

2 **PLUMBING OVERALL PLAN - LEVEL 1 - PRESSBOX**
Scale: 1/4" = 1'-0"

N

1 **PLUMBING OVERALL PLAN - LEVEL 1 - Area B**
Scale: 1/8" = 1'-0"

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01.1-P5.03.1 FOR PLUMBING DETAILS AND SHEETS P6.01.1 AND P6.02.1 FOR PLUMBING SCHEDULES.
5. PROVIDE SHOCK ARRESTORS AND ACCESS PANELS AT ALL STAINLESS STEEL SINKS

PLUMBING KEYED NOTES "☒"

1	4" OVERFLOW FROM ABOVE.
2	2" VENT UP FROM BELOW FLOOR
3	4" OVERFLOW DOWN.
4	4" STORM DOWN.
5	8" OVERFLOW FROM ABOVE.
6	8" STORM FROM ABOVE.
7	8" STORM DOWN TO BELOW SLAB.
8	4" VENT UP FROM BELOW FLOOR, UP TO 4"VTR
9	2" VENT RISER UP FROM BELOW FLOOR, EXTEND TO FLOOR ABOVE.
10	4" STORM FROM ABOVE, DOWN TO BELOW FLOOR.
11	4" OVERFLOW FROM ABOVE. EXTEND DOWN AND CONNECT TO DOWNSPOUT NOZZLE(DN-1). RE: SHEET P5.01 FOR DOWNSPOUT NOZZLE DETAIL.
12	4" STORM FROM ABOVE.
13	2" VENT UP TO 2"VTR
14	3/4" INCOMING COLD WATER ENTRY. RE: SHEET P5.01 FOR DETAIL.
15	3/4" COLD WATER, SLEEVE THRU WALL, ROUGH-IN AND CONNECT TO FIXTURE(S). COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF HB-1 WITH ARCHITECT/OWNER. RE: SHEET P5.01 FOR DETAIL
16	3" VENT UP TO 3"VTR
17	4" VENT UP TO 4"VTR

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Pasadena, Texas

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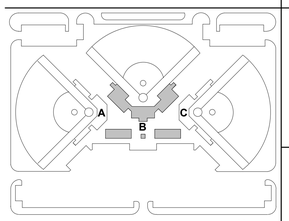

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Title

PLUMBING FLOOR PLAN - AREA B

Sheet

P3.02

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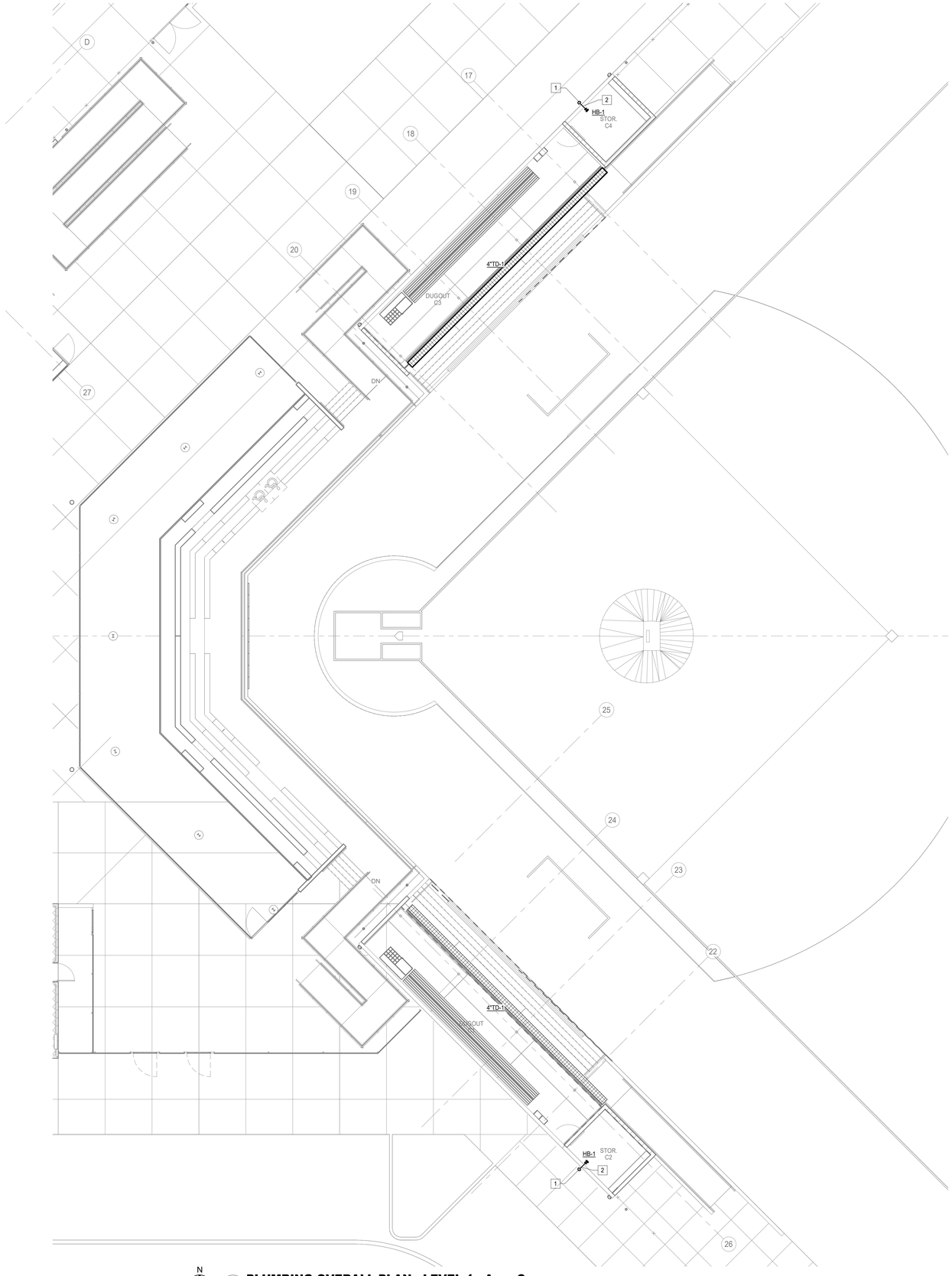

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1 **PLUMBING OVERALL PLAN - LEVEL 1 - Area C**

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

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01.1-P5.03.1 FOR PLUMBING DETAILS AND SHEETS P6.01.1 AND P6.02.1 FOR PLUMBING SCHEDULES.
5. PROVIDE SHOCK ARRESTORS AND ACCESS PANELS AT ALL STAINLESS STEEL SINKS

PLUMBING KEYED NOTES "☒"

1	3/4" INCOMING COLD WATER ENTRY. RE: SHEET P5.01 FOR DETAIL.
2	3/4" COLD WATER, SLEEVE THRU WALL, ROUGH-IN AND CONNECT TO FIXTURE(S). COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF HB-1 WITH ARCHITECT/OWNER. RE: SHEET P5.01 FOR DETAIL

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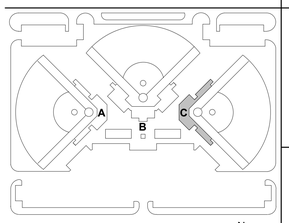

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PLUMBING FLOOR PLAN - AREA C

Sheet

P3.03

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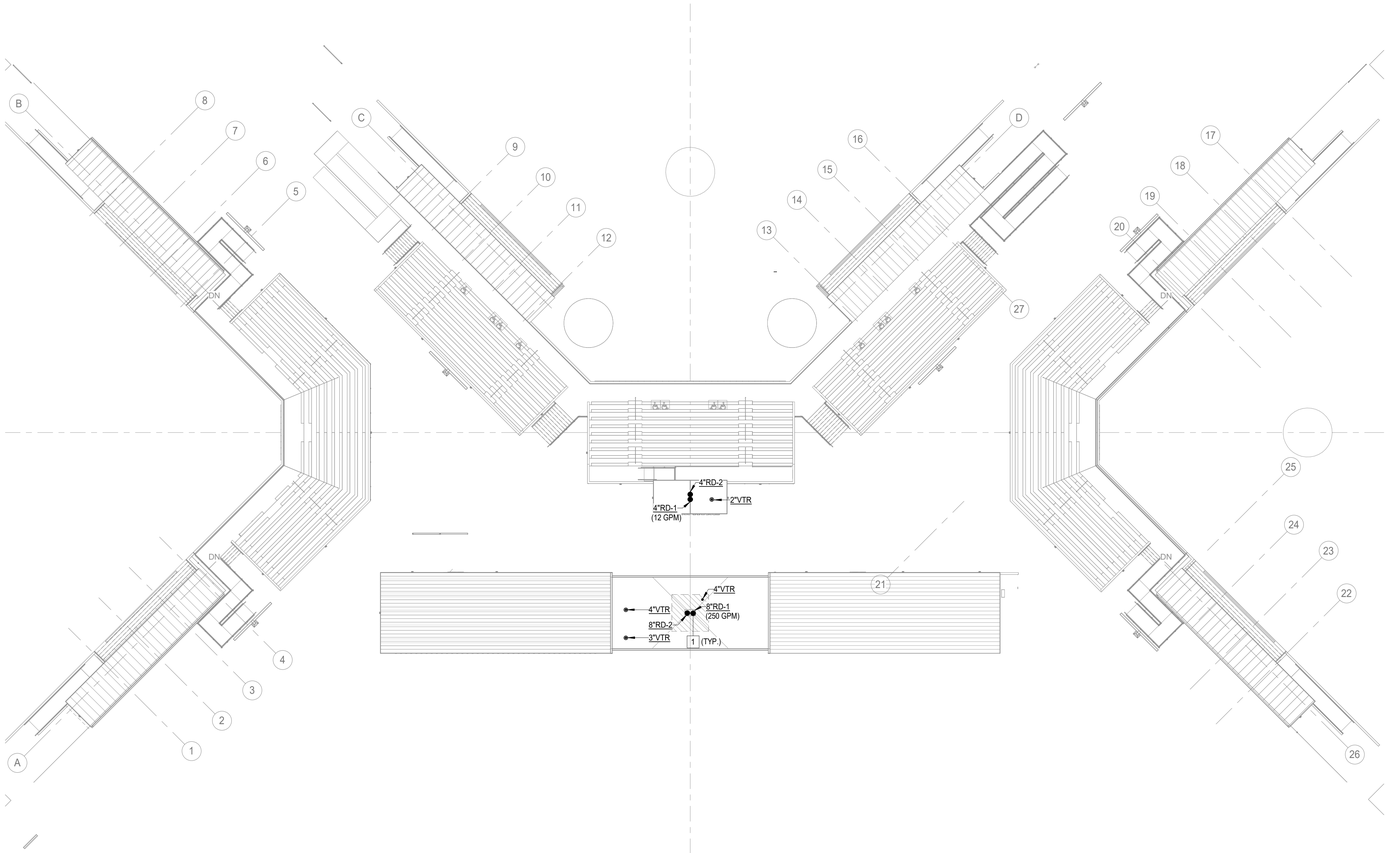
PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF DRAINS.
2. STORM SIZING IS BASED ON 4.6" PER HOUR RAINFALL.
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01 - P5.02 FOR PLUMBING DETAILS AND SHEET P6.01 FOR PLUMBING SCHEDULES.

PLUMBING KEYED NOTES "☒"

1 REFER TO SHEET P5.01 FOR ROOF DRAIN DETAILS



N

1 **PLUMBING PLAN - ROOF**
Scale: 1" = 20'-0"

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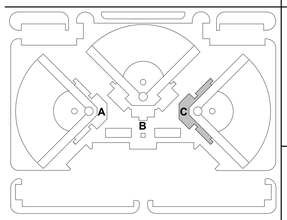

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PLUMBING ROOF PLAN

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P3.04

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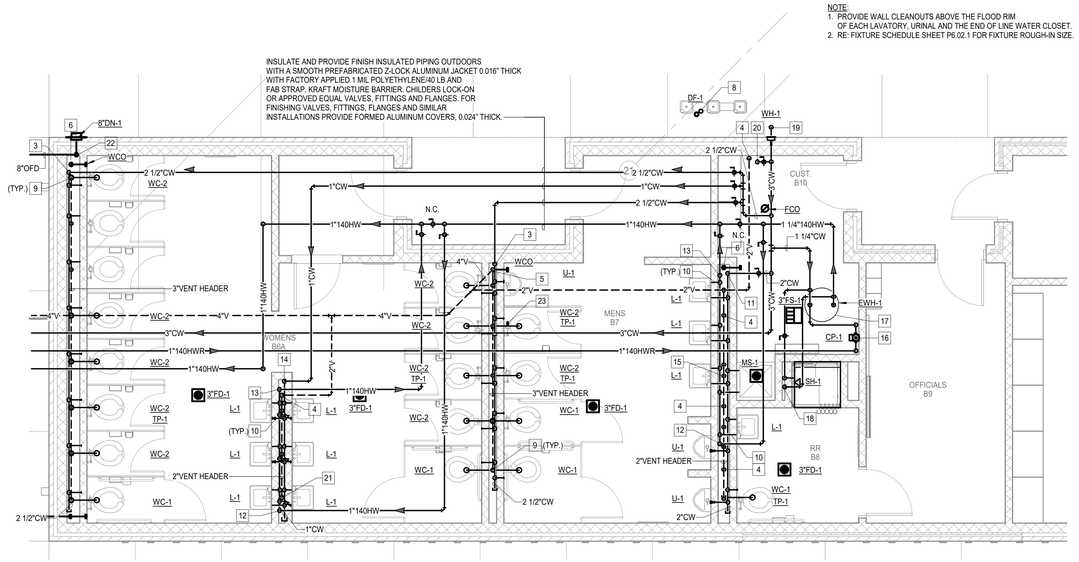

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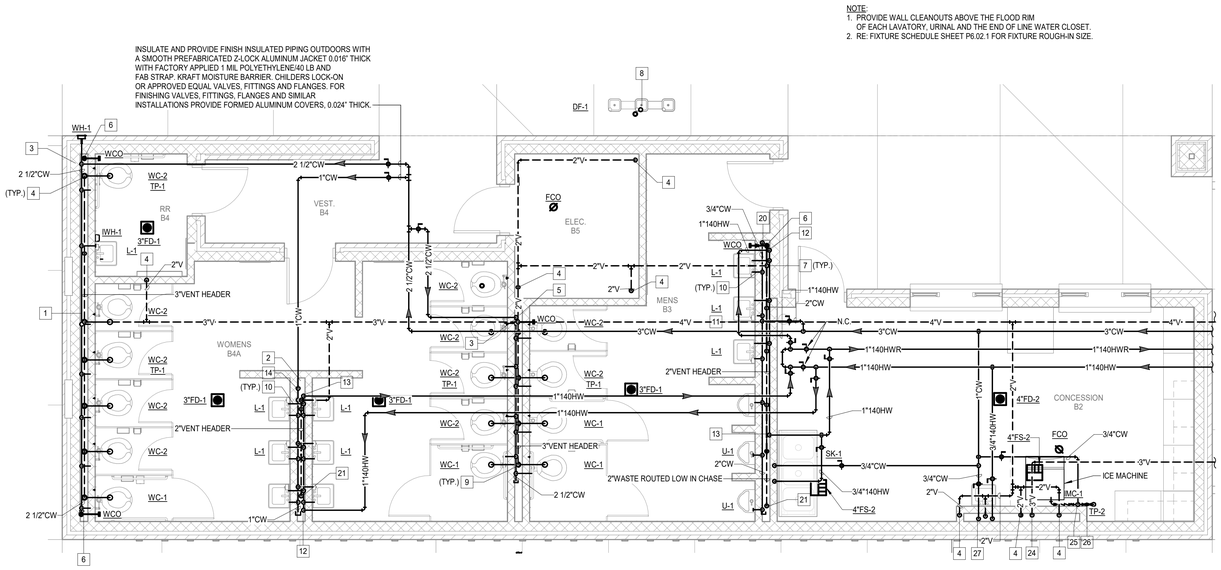
2 PLUMBING ENLARGED PLAN - WOMENS B011 AND MENS B012

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



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1 PLUMBING ENLARGED PLAN - WOMENS B005 AND MENS B004

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

PLUMBING GENERAL NOTES:

1. REFER TO ARCHITECTS DRAWING FOR EXACT LOCATION OF FLOOR DRAINS.
2. ALL FLOOR DRAINS AND FLOOR SINKS MUST BE EASILY ACCESSIBLE FOR SERVICING. PROVIDE TRAP PRIMERS TO SERVE FLOOR DRAIN/FLOOR SINK/TRENCH DRAIN/HUB DRAINS. RE: SHEET P5.01 FOR DETAILS AND SHEET P6.01 FOR SCHEDULES
3. DO NOT SCALE THE PLUMBING DRAWINGS, REFER TO THE DIMENSIONED ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL DATA.
4. REFER TO SHEETS P5.01.1-P5.03.1 FOR PLUMBING DETAILS AND SHEETS P6.01.1 AND P6.02.1 FOR PLUMBING SCHEDULES.
5. PROVIDE SHOCK ARRESTORS AND ACCESS PANELS AT ALL STAINLESS STEEL SINKS

PLUMBING KEYED NOTES "☒"

1	4" WASTE DOWN, 3" VENT UP.
2	2" VENT UP.
3	DROP 2-1/2" COLD WATER DOWN. EXTEND 2-1/2" CW HEADER AND CAP. ROUGH-IN AND CONNECT TO FIXTURES. PROVIDE SHOCK ARRESTOR WITH ACCESS PANEL PRIOR TO LAST FIXTURE.
4	2" VENT UP FROM BELOW SLAB.
5	4" VENT UP, OFFSET AND ROUTE AS SHOWN.
6	4"WASTE DOWN.
7	2" WASTE DOWN, 2" VENT UP.
8	3/4" COLD WATER AND 2" WASTE FROM BELOW SLAB, ROUGH-IN AND CONNECT TO FIXTURE
9	4" WASTE DOWN, 2" VENT UP.
10	3/4" HOT AND COLD WATER, RISE 2" VENT UP, 2" WASTE DOWN, ROUTE HOT AND COLD WATER LINES THRU POINT OF USE MIXING VALVE. EXTEND AND ROUGH-IN TO FIXTURE(S). RE: SHEET P5.01 FOR DETAIL
11	DROP 2" COLD WATER DOWN IN CHASE, EXTEND 2" COLD WATER HEADER, CAP AND ROUGH-IN TO FIXTURES. PROVIDE SHOCK ARRESTOR WITH ACCESS PANEL PRIOR TO LAST FIXTURE.
12	DROP 1" HOT WATER DOWN, EXTEND AND ROUGH-IN FOR FIXTURE(S).
13	RISE 1" HOT WATER UP, RE: SHEET P5.01 FOR HW CIRCULATION AT PUBLIC LAVATORIES DETAIL
14	1" COLD WATER DOWN. EXTEND AND ROUGH IN FOR FIXTURE(S).
15	3" WASTE DOWN, 2" VENT UP. PROVIDE COMMON VENT FOR MOP SINK AND LAVATORY.
16	RE: PLUMBING DETAIL SHEET P5.01 FOR CIRCULATOR PUMP PIPING DETAIL. MOUNT ON WALL NO MORE THAN 80"AFF
17	RE: SHEET P5.01 FOR ELECTRIC WATER HEATER PIPING DIAGRAM.
18	3/4" HOT & COLD WATER DOWN, EXTEND AND CONNECT TO EQUIPMENT/FIXTURE(S).
19	3" INCOMING COLD WATER ENTRY. RE: SHEET P5.01 FOR DETAIL.
20	DROP 3/4" COLD WATER DOWN TO BELOW SLAB.
21	2" WASTE DOWN TO BELOW SLAB, 2" VENT UP.
22	8" OVERFLOW DOWN. EXTEND AND CONNECT TO DOWNSPOUT NOZZLE(DN-1). RE: SHEET P5.01 FOR DOWNSPOUT NOZZLE DETAIL.
23	TRAP PRIMER (TP-1) TO SERVE FLOOR SINK IN CUST B10 RE: DETAIL SHEET P5.01
24	3" VENT UP FROM BELOW SLAB.
25	DROP 3/4" COLD WATER DOWN EXTEND AND CONNECT TO ICE MACHINES THROUGH BACKFLOW PREVENTER.(IMC-1) RE: SHEET P501 FOR ICE MACHINE CONNECTION DETAIL. PROVIDE FILTER AS RECOMMENDED BY EQUIPMENT MANUFACTURER WHEN MAKING FINAL CONNECTION. PROVIDE FILTER IN AN ACCESSIBLE LOCATION OFF TO THE SIDE. DO NOT LOCATE FILTERS BEHIND ICE MACHINES.
26	TRAP PRIMER (TP-2) TO SERVE FLOOR DRAIN(4"FD-2) AND FLOOR SINK(4"FS-2)IN CONCESSION B2 RE: DETAIL SHEET P5.01
27	DROP 3/4" HOT(140°) AND COLD WATER DOWN, RISE 2" VENT UP, 2" WASTE DOWN, ROUTE HOT AND COLD WATER LINES THRU POINT OF USE MIXING VALVE EXTEND AND ROUGH-IN TO FIXTURE(S). RE: SHEET P5.01 FOR DETAIL AND SHEET P6.01 FOR FIXTURE SCHEDULE

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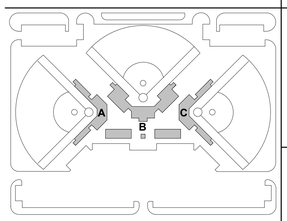

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PLUMBING ENLARGED PLANS

Sheet

P4.01

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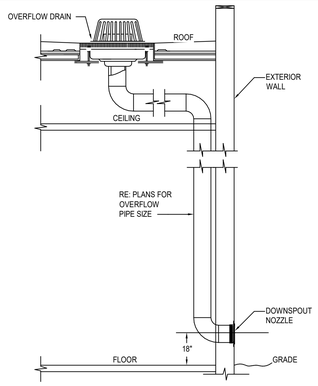

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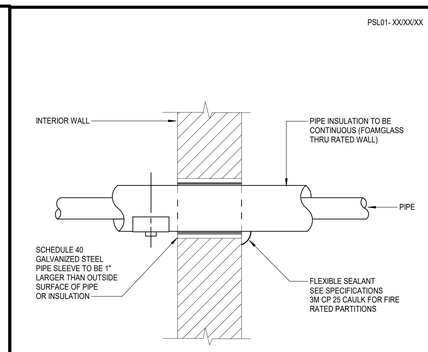

16 INTERIOR WALL PENETRATION
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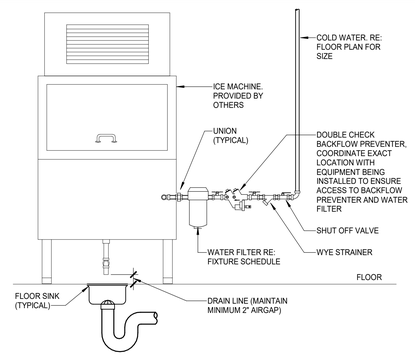

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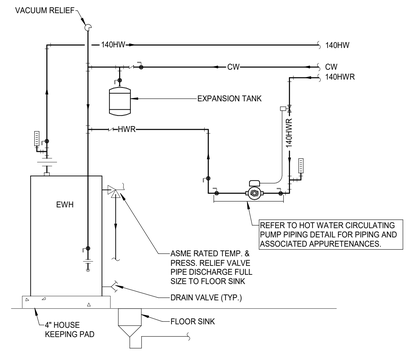

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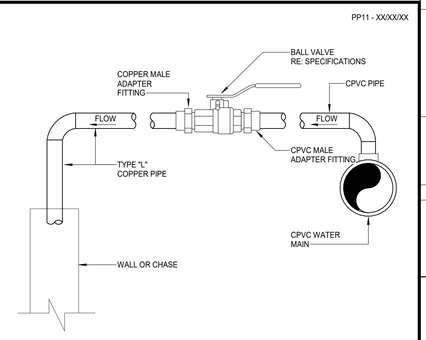

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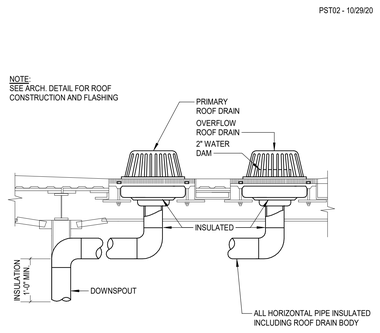

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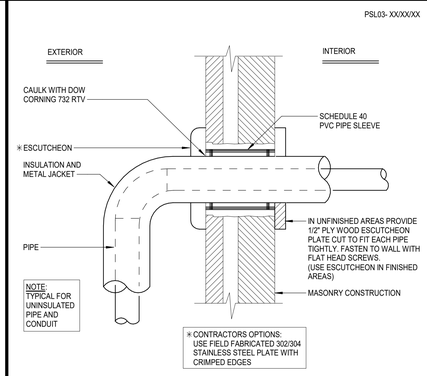

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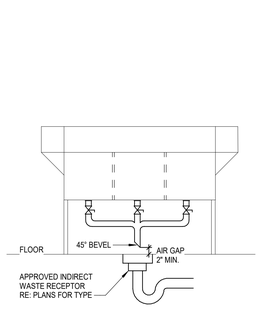

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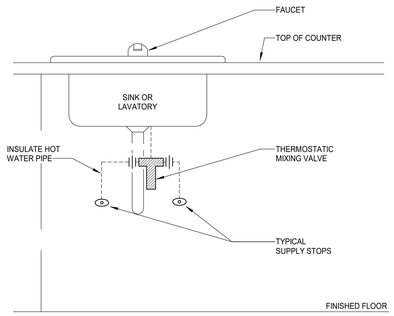

THERMOSTATIC MIXING VALVE AT SINK/LAVATORY SINGLE TEMPERATURE
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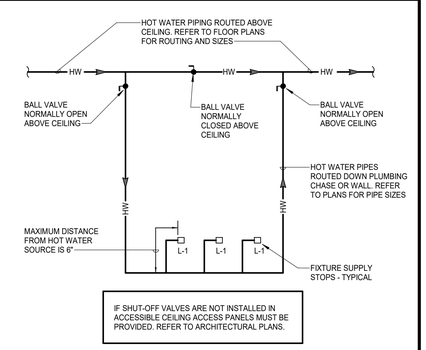

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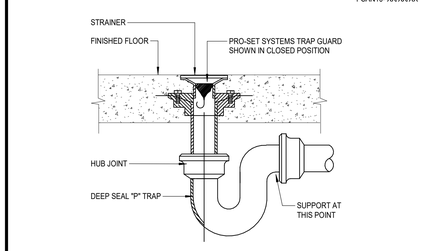

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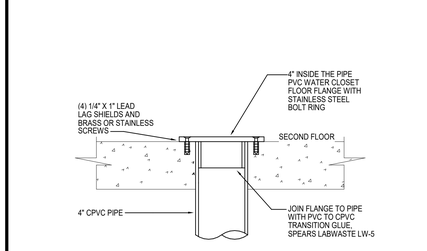

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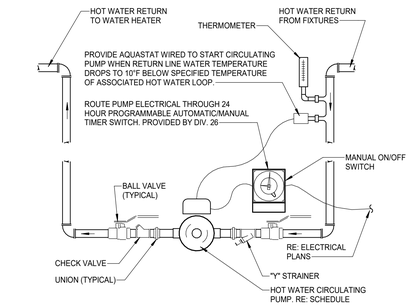

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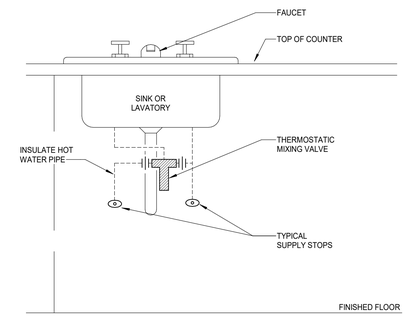

THERMOSTATIC MIXING VALVE AT SINK/LAVATORY DUAL TEMPERATURE
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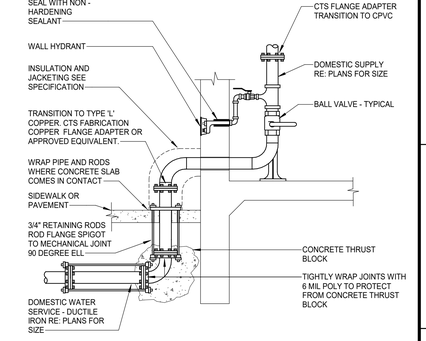
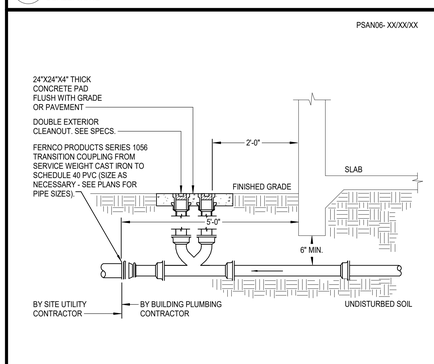
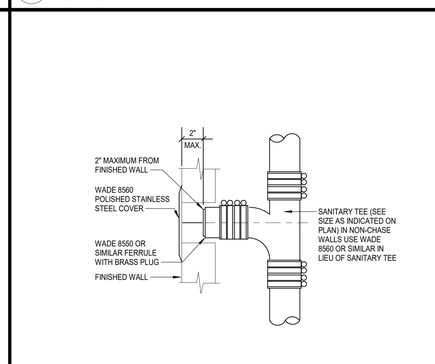


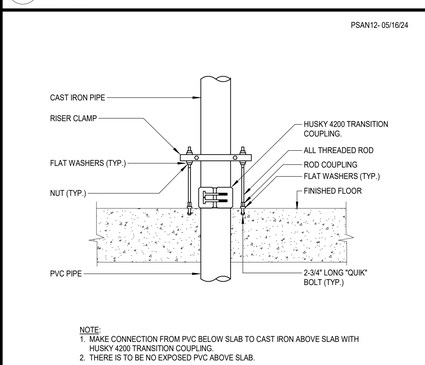
2 DOMESTIC WATER ENTRY
SCALE: NONE



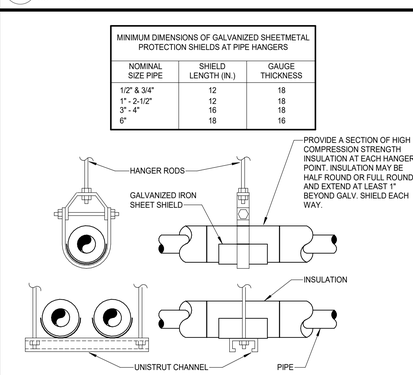
TWO-WAY CLEANOUT WITH CAST IRON TO PVC
17
SCALE: NONE



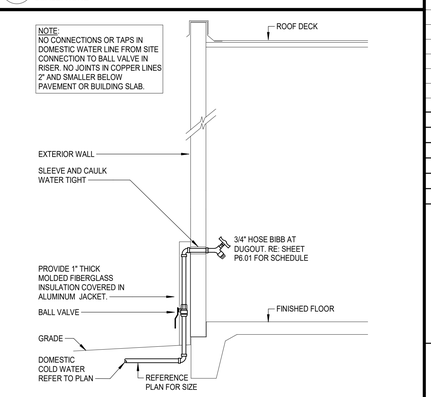
13 WALL CLEANOUT
SCALE: NONE



9 CAST IRON TO PVC TRANSITION
SCALE: NONE



5 PIPE SHIELDS FOR INSULATED PIPING
SCALE: NONE



1 DOMESTIC WATER ENTRY
SCALE: NONE

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

PLUMBING DETAILS

Sheet

P5.01

CONSTRUCTION DOCUMENTS

Autodesk Docs://Pasadena ISD Softball Complex/PISD Softball Complex_MEP_Central_R23.rvt

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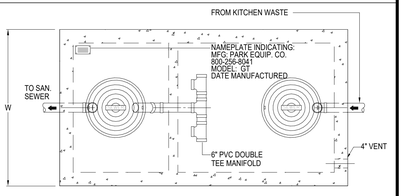
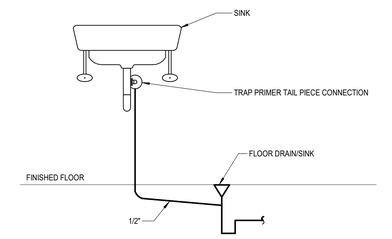


GREASE INTERCEPTOR SCHEDULE								
MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"

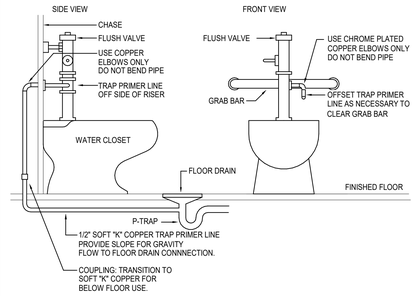
GREASE INTERCEPTOR SIZING				
FIXTURE TYPE:	TRAP ARM SIZE	FIXTURE UNITS	QUANITY	SUM
FLOOR SINK OR FLOOR DRAIN - 3"	3"	6	0	0
FLOOR SINK OR FLOOR DRAIN - 4"	4"	8	1	8
HAND SINK - 2"	2"	2	0	0
EMERGENCY FLOOR DRAIN - 3"	3"	0	0	0
EMERGENCY FLOOR DRAIN - 4"	4"	0	1	0
DESIGN: 2015 UPC TABLE 10-3-1016.2	TOTAL FIXTURE UNITS			8
	MINIMUM GREASE TRAP CAPACITY (GALLONS)			500

6 500 GALLON GREASE TRAP
SCALE: NONE

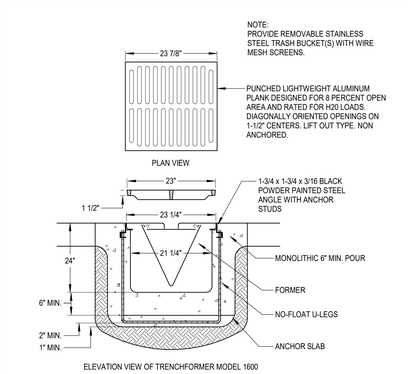


4 TRAP PRIMER (TP-3)
SCALE: NONE

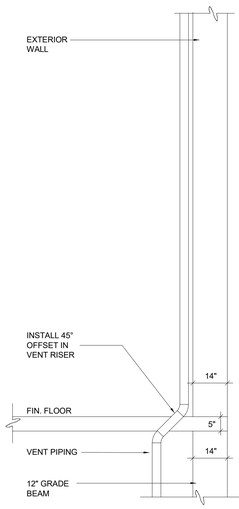
PV01 - 05/20/24



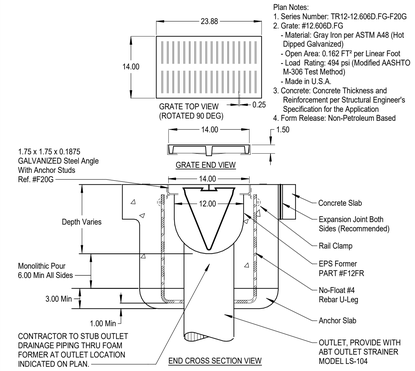
FLUSH VALVE TRAP PRIMER - FLOOR MOUNTED
3 SCALE: NONE



2 TRENCH DRAIN DETAIL
SCALE: NONE

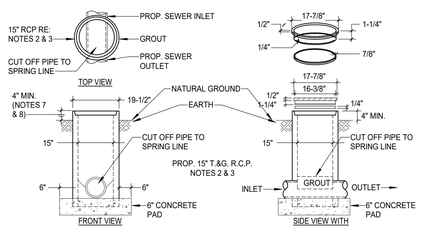


5 VENT AT GRADE BEAM
SCALE: NONE



1 TRENCH DRAIN DETAIL
SCALE: NONE

GENERAL NOTES:
1. SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.
2. USE 15" T & P RCP, FOR INSTALLATION 6'-0" DEEP.
3. USE 24" T & P RCP, FOR INSTALLATION GREATER THAN 6'-0" DEEP (STD. RING & MH COVER REQUIRED).
4. SAMPLING WELL MUST BE SET IN A CIRCULAR OR SQUARE CONCRETE PAD (1'-0" GREATER THAN OUTSIDE DIAMETER OF PIPE).
5. INSIDE INSTALLATION NOT PERMITTED, WHERE OUTSIDE INSTALLATION IS POSSIBLE.
6. INSTALLATION INSIDE OF BLDG. MUST BE POURED IN PLACE (15" MIN.) NO CONCRETE PIPE PERMITTED, (AIR TIGHT COVER REQUIRED).
7. LAWN INSTALLATION MUST BE 4" ABOVE FINISHED GRADE.
8. DRIVE AND SIDEWALK INSTALLATION MUST BE BROUGHT TO FINISHED GRADE.
9. TO BE INSTALLED OR PRIVATE PROPERTY, IN AN ACCESSIBLE LOCATION TO CITY PERSONNEL.



7 SAMPLE WELL
SCALE: NONE

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
11-10-25

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Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

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PLUMBING DETAILS

Sheet

P5.02

CONSTRUCTION DOCUMENTS

Autodesk Docs://Pasadena ISD Softball Complex/PISD Softball Complex_MEP_Central_R23.rvt

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BINDING EDGE

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	CONDENSTATE DRAIN PIPING (CD)
D	CONDENSTATE - 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
BV	BALANCING VALVE (BV)
SV	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
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
CO	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
ECO	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
PRV	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
HB	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
TC	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
OS&Y	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
FS	FLOOR SINK (FS)
FD	FLOOR DRAIN (FD)
FD	FLOOR DRAIN WITH P-TRAP (FD)
FD	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
HD	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
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1	4" VTR RISER FLAG

ELECTRIC WATER HEATER SCHEDULE

ITEM NO.	KW INPUT	GALS. PER HR RECOVERY RATE 100°F RISE	STORAGE CAPACITY	ELECTRICAL REQUIRED	STORED WATER TEMP.	MANUFACTURER / COMMENTS
EWH-1	15	61	65	208V/3PH.	140°	A.O. SMITH DSE-65A

NOTES:
1. ALL ELECTRIC WATER HEATERS SHALL BE ASME.
2. PROVIDE IN-LINE HOT WATER EXPANSION TANK DOWNSTREAM OF CHECK VALVE ON COLD WATER SUPPLY.

CIRCULATING PUMP SCHEDULE

ITEM NO.	DESCRIPTION	TYPE	GPM	HEAD FEET	H.P. MIN.	VOLT/ PHASE	MAX RPM	MANUFACTURER AND MODEL
CP-1	CIRCULATION PUMP 140° HOT WATER	IN-LINE STAINLESS STEEL	5	13	1/12	120/1	2400	GRUNDFOS ALPHA 15-55SF

NOTES:
1. FACTORY SET CIRCULATION PUMP TO AUTO-ADAPT SETTING.

DOMESTIC HW EXPANSION TANK

ITEM NO.	DESCRIPTION	MAX. WORK PRESSURE	TANK VOL. GALLONS	MAX. ACCEPT. GALLONS	DIAMETER INCHES	MANUFACTURER AND MODEL
ET-1	HOT WATER EXPANSION TANK	150 PSI	3.5	2.3	18"	WATTS #DETA-5 SUSPENDED

NOTES:
1. ALL EXPANSION TANKS SHALL BE ASME RATED.
2. ET-1 SHALL BE PIPE IN CONJUNCTION WITH EWH-1

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

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.

INSTANTANEOUS WATER HEATER SCHEDULE

Mark	KW	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	WH Temperature Rise Per 2.0 GPM	WH Output Water Temperature	ELECTRICAL CHAR. V	P	MCA	MOCP	REMARKS
IWH-1	4.1 kW	EEMAX	AM00427T	40 °F	105 °F	277	1	0	20	

NOTES:
1. MOUNT UNDER COUNTER OR LAVATORY/SINK, INTEGRATED MIXING VALVE MEETS ASSE 1070
2. CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE PRIOR TO PURCHASING AND INSTALLING EQUIPMENT.
3. INSTALL HEATER AND ROUTE PIPING BASED ON MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE SCALESAFE PF10SS WATER TREATMENT FILTER AT EACH HEATER.

PLUMBING FIXTURE SCHEDULE

TYPE: WC-1 (T.A.S. COMPLIANT FOR ADULTS)
DESCRIPTION: WATER CLOSET, FLOOR MOUNTED 12" ROUGH-IN, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH DIRECT-FED SIPHON JET ACTION, 16-1/2" HIGH ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. AMERICAN STANDARD MADERA 16-1/2" H ELONGATED TOILET 3249.001.
SEAT: ELONGATED OPEN FRONT BLACK PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. BEMIS 1955SSCT.
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN 111-1.28.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: WC-2 (STANDARD HEIGHT)
DESCRIPTION: WATER CLOSET, FLOOR MOUNTED 12" ROUGH-IN, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH DIRECT-FED SIPHON JET ACTION, 15" HIGH ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. AMERICAN STANDARD MADERA 15" H ELONGATED TOILET 3249.001.
SEAT: ELONGATED OPEN FRONT BLACK PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. BEMIS 1955SSCT.
FLUSH VALVE: 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN 111-1.28.
ROUGH-IN: 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: U-1 (T.A.S. COMPLIANT)
DESCRIPTION: URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, SIPHON JET ACTION, INTEGRAL TRAP, REMOVABLE DOMED STRAINER. KOHLER "BARDON" K-4960-ET
FLUSH VALVE: 0.5 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL186-0.5-H-573-CP CAP.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. WADE 400-AM11.
ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: L-1 (T.A.S. COMPLIANT) - HOT AND COLD WATER
DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012.
FAUCET: CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH COVER PLATE, 4-1/8" SPOUT, AND PUSH BUTTON HANDLE INDEXED "PUSH". SELF-CLOSING METERING CARTRIDGE, VANDAL RESISTANT 0.5 GPM AERATOR, CHICAGO MODEL 857-E2805-665PSHAB.
MIXING VALVE: HYDRO GUARD SERIES LFE480-100U(UNLESS SPECIFIED ELSEWHERE), 0.5 GPM MINIMUM FLOW RATE UNDER EACH LAVATORY TO TEMPER THE HOT WATER SUPPLY INLET CONNECTION AT THE FAUCET.
STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.
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.
CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE 520-08.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: HS-1 (T.A.S. COMPLIANT FOR ADULTS) - HAND SINK
DESCRIPTION: WALL HUNG, WHITE VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0356.015.
FAUCET: CHROME PLATED BRASS DECK MOUNTED HAND SINK FAUCET WITH 5-1/4" RIGID/SWING SPOUT AND 4" VANDAL PROOF WRIST BLADE HANDLES ON 4" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, 2.2 GPM AERATOR. 4" FIXED CENTERS, CHICAGO MODEL 895-317GN2AE3XKAB.
MIXING VALVE: HYDRO GUARD SERIES LFE480-100U(UNLESS SPECIFIED ELSEWHERE), 0.5 GPM MINIMUM FLOW RATE UNDER EACH LAVATORY TO TEMPER THE HOT WATER SUPPLY INLET CONNECTION AT THE FAUCET.
STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC.
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.
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 520-08.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: MS-1
DESCRIPTION: MOP SINK BASIN, 24" X 24" X 10" HIGH WHITE ONE-PIECE HOMOGENEOUS MOLDED FIBERGLASS CONSTRUCTION. STAINLESS STEEL BUMPER GUARDS, DRAIN BODY AND REMOVABLE STAINLESS STEEL STRAINER, PROVIDE STAINLESS STEEL WALL GUARDS IN QUANTITY AS REQUIRED TO PROTECT ADJACENT WALLS. PROVIDE MOP HANGER AND 30" RUBBER HOSE WITH WALL HANGER. E.L. MUSTEE & SONS BASIN 63M, HOSE 65.700, HANGER 65.600, BUMPER GUARDS 43.403, AND WALL GUARDS 67.2424.
FAUCET: CHROME PLATED BRASS FAUCET WITH INTEGRAL SHUT OFF AND CHECK STOPS, CERAMIC DISC CARTRIDGES, VACUUM BREAKER SPOUT WITH 3/4" MALE HOSE THREADED OUTLET, VANDAL RESISTANT 360 HANDLES, ADJUSTABLE TOP BRACE AND SUPPLY ARMS. CHICAGO 445-897SRCXKCP
ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.

TYPE: SH-1(T.A.S. COMPLIANT) - INDIVIDUAL SHOWER STATION
DESCRIPTION: SHOWER, JOB BUILT BASE INSTALLED PER ARCHITECTURAL DRAWINGS.
CONTROLS: PRESSURE BALANCING HOT AND COLD WATER SHOWER CONTROL, VALVE WITH VANDAL RESISTANT LEVER HANDLE, INTEGRAL CHECKSTOPS, AND ADJUSTABLE TEMPERATURE LIMIT SCREW NOT TO EXCEED 120°. CAST BRASS VALVE BODY. ALL EXPOSED MATERIALS STAINLESS STEEL OR CHROME PLATED BRASS. 1.5 GPM HAND HELD SHOWER WITH 60" METAL CLAD FLEXIBLE HOSE, CHROME PLATED BRASS SUPPLY ARM, VACUUM BREAKER, MOUNTING BRACKET AND 24" METAL SLIDE BAR, BRADLEY 1C-HD-AKV-A24.
DRAIN: LINEAR SHOWER DRAIN, STAINLESS STEEL SQUARE PERFORATED GRATE AND FRAME, KERDI WATERPROOFING MEMBRANE, FLANGE WITH INTEGRATED CLAMPING COLLAR, SEEPAGE OPENINGS, BOTTOM OUTLET WITH 1/2" TRAP PRIMER CONNECTION. SCHLUTER SYSTEMS MODEL KERDI-LINE
ROUGH-IN: 1/2" HOT AND COLD WATER. 2" WASTE, 2" VENT. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE: DF-1 (T.A.S. COMPLIANT)
DESCRIPTION: OUTDOOR ez2H20 UPPER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL ONE PIECE VANDAL RESISTANT BUBBLER, SELF-CLOSING VANDAL RESISTANT PUSHBUTTON, STAINLESS STEEL CONSTRUCTION, COLOR BY ARCHITECT. WATER SYSTEM COMPONENTS SHALL BE LEAD FREE. ELKAY MODEL LK4430BF1L
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 LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165LK.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
NOTE: CUSTOM COLOR. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.

TYPE: HB-1 - INDOORS
DESCRIPTION: HOSE BIBB, 3/4" INLET, CHROME PLATED BRASS, VACUUM BREAKER, REMOVABLE TEE HANDLE. CHICAGO 952.
ROUGH-IN: 3/4" COLD WATER

TYPE: WH-1
DESCRIPTION: NON-FREEZE WALL HYDRANT, AUTOMATIC DRAINING FOR FLUSH INSTALLATION CHROME PLATED BRASS FINISH WITH ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF BOX 24" A.F.F. WADE 8601-MT-17S.
ROUGH-IN: 3/4" COLD WATER

TYPE: RVB-1
DESCRIPTION: RECESSED VALVE BOX, 10-3/4" X 9", 20 GAUGE STEEL WITH GALVANIZED FINISH, 5/8" O.D. SWEAT CONNECTION. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER.
ROUGH-IN: 1/2" COLD WATER

TYPE: IMC-1
DESCRIPTION: ICE MACHINE CONNECTION, WATER SUPPLY VALVED AT WALL. PROVIDE DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER AND WATER FILTER. WATTS 1/2" 007-S BACKFLOW PREVENTER AND AQUA-PURE AP510 FILTER. ROUTE BACKFLOW PREVENTER DISCHARGE TO FLOOR SINK SERVING ICE MACHINE.
ROUGH-IN: 3/4" COLD WATER. COORDINATE ROUGH-IN LOCATION/HEIGHT, FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECTURAL/CASEWORK DRAWINGS.

TYPE: TP-1
SERVICE: SERVES ONE FLOOR DRAIN TRAP.
DESCRIPTION: FLUSH VALVE TRAP PRIMER, 1-1/2" O.D. X 12" 17 GAUGE PRIMING TUBE WITH VACUUM BREAKER. PRECISION PLUMBING PRODUCTS FVP-1VB.

TYPE: TP-2
SERVICE: SERVES 1 TO 4 FLOOR DRAIN TRAPS, REFER TO PLANS.
DESCRIPTION: ELECTRONIC TRAP PRIMER WITH DISTRIBUTION MANIFOLD AND CABINET. SURFACE MOUNT IN MECHANICAL ROOM. PRECISION PLUMBING PRODUCTS MINI-PRIME MODEL MPB-500-115V.
ROUGH-IN: 3/4" COLD WATER

TYPE: FD-1
SERVICE: TOILET ROOMS AND GENERAL USE
DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE. BOTTOM OUTLET WITH 1/2" TRAP PRIMER CONNECTION. WADE 1100-MR6.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

TYPE: FD-2
SERVICE: KITCHEN AREA CLEANUP
DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, 8" DIAMETER STAINLESS STEEL STRAINER, 6" DEEP SUMP, A.R.E. INTERIOR, SEDIMENT BUCKET, BOTTOM OUTLET WITH 1/2" TRAP PRIMER CONNECTION. WADE 9010-27-SS.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.

TYPE: FS-1
SERVICE: MECHANICAL ROOM/EQUIPMENT INDIRECT
DESCRIPTION: A.R.C. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, LOOSE SET CAST IRON SECONDARY STRAINER, CLAMPING DEVICE WITH STAINLESS STEEL HALF TOP GRATE. BOTTOM OUTLET WITH 1/2" TRAP PRIMER CONNECTION. WADE 9140-85-15-26.
TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.

TYPE: FS-2
SERVICE: KITCHEN INDIRECT WASTE,
DESCRIPTION: A.R.C. COATED CAST IRON 12" SQUARE FLOOR SINK WITH 6" DEEP SUMP, ALUMINUM DOME BOTTOM STRAINER, LOOSE SET CAST IRON SECONDARY STRAINER, AND CLAMPING DEVICE, ALUMINUM SEDIMENT BUCKET WITH BOTTOM OUTLET. TRAP PRIMER CONNECTION. WADE 9140-85-15-26-27.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.

TYPE: TD-1 (ADA)
SERVICE: DUGOUT
DESCRIPTION: TRENCH DRAIN, 14" WIDE 1/8" PER FOOT SLOPED PRE-MANUFACTURED 12" WIDE TRENCH FORMS WITH ROUND BOTTOM. 14" WIDE HEAVY DUTY GALVANIZED GRAY IRON HEEL PROOF GRATES WITH GALVANIZED 1.75" X1.75" X0.188" STEEL RAILS. ABT, INC. TR12-12.606D.FG-F20G
ROUGH-IN: COORDINATE TRENCH DRAIN INSTALLATION WITH SLAB CONSTRUCTION

TYPE: RD-1
DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. PUSH ON CONNECTION ONLY. WADE 3000-42-52-53
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: RD-2
DESCRIPTION: OVERFLOW ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH WATER DAM, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. PUSH ON CONNECTION ONLY. WADE 3000-D-46-52-53.
ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.

TYPE: DN-1
DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE. ROUND FABRICATED STANLESS STEEL FRAME WITH FABRICATED SECURED PERFORATED STANLESS STEEL HINGED STRAINER INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. ZURN ZS199-DC
REFER TO FLOOR PLANS FOR SIZES.

TYPE: ECO
DESCRIPTION: EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING, FERRULE WITH TAPERED BRASS PLUG, AND ROUND SCORIATED DUCTILE IRON TRACTOR TYPE COVER WITH SECURITY SCREWS. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18" X 18" X 12" CONCRETE PAD. WADE 6000-Z.

TYPE: FCO
DESCRIPTION: FLOOR CLEANOUT, CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING, FLANGED FERRULE, INTEGRAL CLAMPING COLLAR AND ROUND SCORIATED STAINLESS STEEL COVER. WADE 6000-85. FOR CARPETED FLOORS PROVIDE WADE 6000-CM.

TYPE: WCO
DESCRIPTION: WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE IRON PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE 8550 WITH 8480-R6. PROVIDE WADE 8580 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.

TYPE: SK-1 - CONCESSION SINK
DESCRIPTION: 18 GAUGE, TYPE 304 STAINLESS STEEL THREE COMPARTMENT FREESTANDING SINK MEASURES 104" X 25-13/16" X 43-3/4". 9" STAINLESS STEEL BACKSPLASH WITH 2 FAUCET HOLES ON 8" CENTERS, LEFT AND RIGHT 20" DRAINBOARDS, 20" X 20"X12" DEEP COMPARTMENTS. STAINLESS STEEL LEGS, ADJUSTABLE BULLET FEET. ELKAY 14-3C20X20-2-20X
FAUCET: CHROME PLATED BRASS WALL MOUNT FITTING WITH 9" SWING SPOUT AND 3" LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 2.2 GPM SOFT-FLO AREATOR. CHICAGO 445-L9-XK
STRAINER: CHROME PLATED BRASS WIDE TOP SINK STRAINER WITH PERFORATED STRAINER, 1-1/2" CHROME PLATED BRASS TAILPIECE. MCGUIRE 152.
SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVES WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.
ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

NOTES: PROVIDE MCGUIRE OR TRUBRO INSULATION KITS ON ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE. ALL FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS. REFER TO BOOK SPECIFICATION FOR A LIST OF APPROVED EQUAL MANUFACTURERS THAT CAN BE SUBMITTED IN LIEU OF THE MANUFACTURERS AND MODEL NUMBERS OF THE FIXTURES AND EQUIPMENT LISTED IN THE ABOVE FIXTURE SCHEDULE. REFER TO SPECIFICATION SECTION 22 05 12 FOR PRIOR APPROVAL REQUIREMENTS.

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New Softball Complex

Pasadena, Texas

PASADENA INDEPENDENT SCHOOL DISTRICT

BRADLEY KALMANS 80219 LICENSED PROFESSIONAL ENGINEER
11-10-25

Revision Schedule

NO.	ISSUE	DATE

Sheet Information	
Date	10 November 2025
Job Number	23-012
Drawn	Author
Checked	Checker
Approved	Approver

Title

PLUMBING SCHEDULES

Sheet

P6.01

CONSTRUCTION DOCUMENTS

BINDING EDGE

Autodes