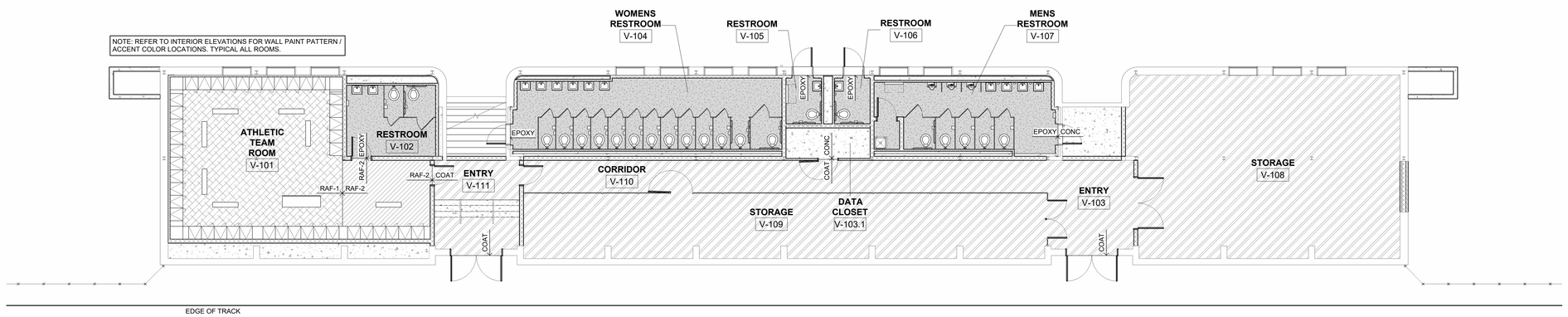
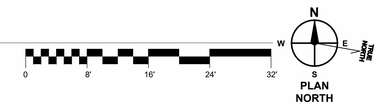
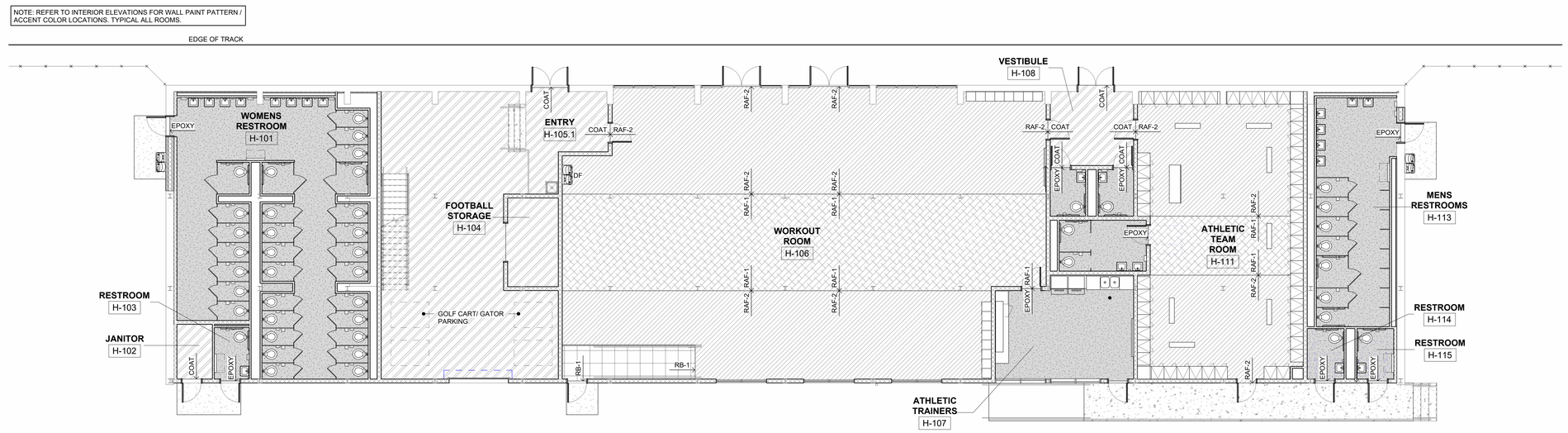
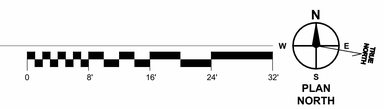


1 VISITOR FIRST FLOOR FINISH PLAN
A10.2 1/8" = 1'-0"





2 HOME FIRST FLOOR FINISH PLAN
A10.2 1/8" = 1'-0"



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SEAL:

School District of Lancaster
Together We Can!

CONSULTANT:

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

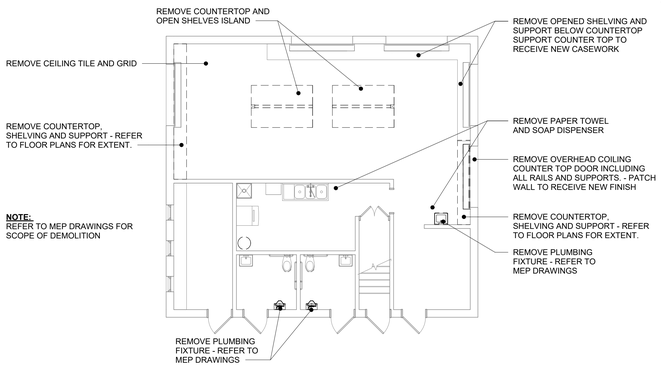
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SHEET TITLE:
FIRST FLOOR FINISH PLANS

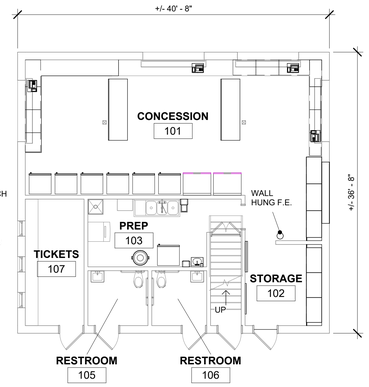
SHEET NUMBER:
A10.2

CONFORMED SET

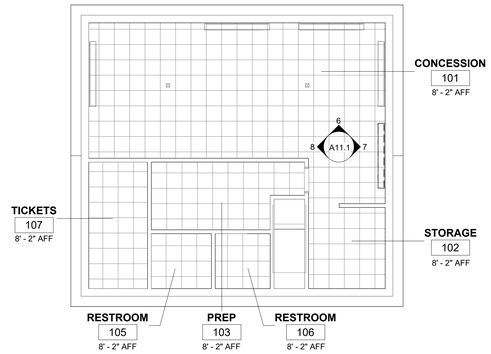
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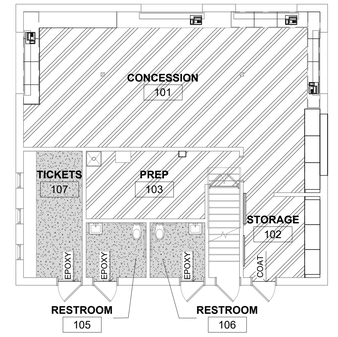
1 FIRST FLOOR PLAN - DEMOLITION
A11.1 1/8" = 1'-0"



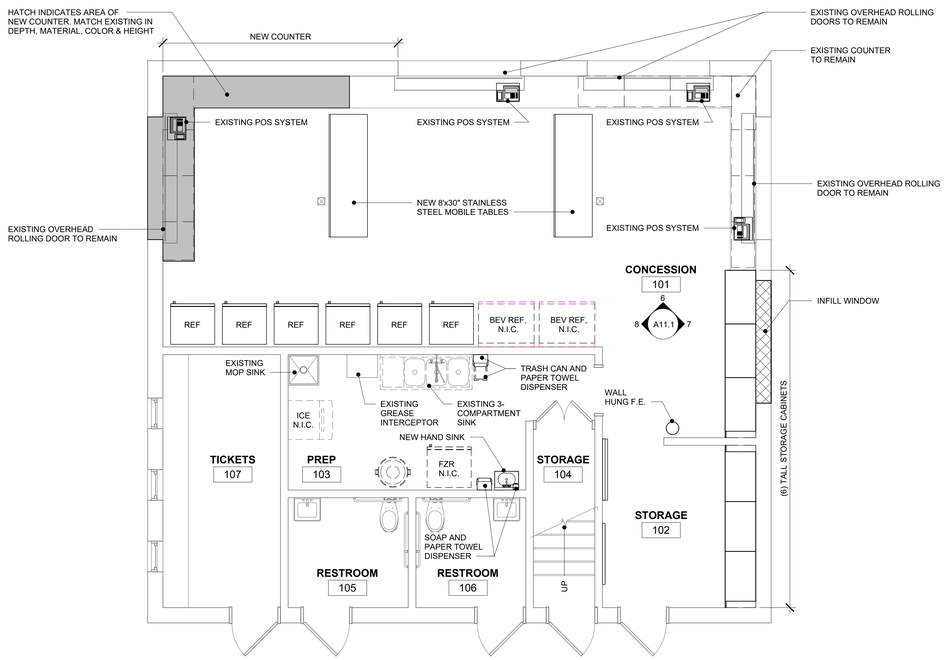
2 FIRST FLOOR PLAN
A11.1 1/8" = 1'-0"



3 FIRST FLOOR REFLECTED CEILING PLAN
A11.1 1/8" = 1'-0"



4 FINISH PLAN
A11.1 1/8" = 1'-0"



5 ENLARGED FLOOR PLAN
A11.1 1/4" = 1'-0"

PAINT

1. ALL PAINT TO BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. SAND LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH. ALLOW EACH COAT OF FINISH TO DRY BEFORE THE FOLLOWING COAT IS APPLIED, UNLESS DIRECTED OTHERWISE BY MANUFACTURER. FILL KNICKS, GOUGES AND OTHER IMPERFECTIONS OF SURFACES WITH LATEX FILLER AND SAND SMOOTH UNTIL FLUSH WITH SURFACE.
2. MATERIALS TO ARRIVE AT JOBSITE IN ORIGINAL, NEW, UNOPENED CONTAINERS BEARING THE MANUFACTURER'S NAME, TRADE NAME AND LEBEL ANALYSES. STORE ON SITE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. ALL PAINTING TO BE DONE UNDER FINAL LIGHTING CONDITIONS.
4. FINISHED PAINTED SURFACES SHALL BE OF UNIFORM COLOR, APPEARANCE AND FINISH WITHOUT DRIPS, RUNS OR SMUDGES.
5. WHERE GRILLES OR DIFFUSERS OCCUR IN CEILING OR WALL, CONFIRM WITH PROFESSIONAL PRIOR TO PAINTING TO MATCH EXISTING ADJACENT SURFACES.
6. REMOVE OR OTHERWISE PROTECT FINISH HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS BEFORE PAINTING.
7. DO NOT PAINT ANY MOVING PARTS OR OPERATION UNITS, CODE-REQUIRED LABELS AND EQUIPMENT IDENTIFICATIONS.
8. PAINT AREAS BEHIND MOVEABLE SURFACE (E.G. INSIDE CABINETS AND BACKS OF ACCESS PANELS). COORDINATE WITH ARCHITECT PRIOR TO START OF WORK.
9. REPAINT OR REFINISH PAINTED SURFACES DAMAGED BY SUBSEQUENT WORK.
10. ALL EXPOSED NON-GALVANIZED DECK IS TO BE PRIMED AND PAINTED.

FINISH LEGEND

FLOOR FINISHES

EPOXY
EPOXY

COAT
CONCRETE COATING

BASE FINISHES

RB
JOHNSONITE 4" RUBBER COVE BASE; COLOR: TBD

EPOXY
4" EPOXY BASE

CEILING FINISHES

ACT
ACOUSTIC CEILING TILE; REFER TO SPECIFICATION FOR PRODUCT TYPES AND SPECIFIC LOCATIONS.

PLASTIC LAMINATES

PLAM-1
CABINETS- WILSONART, COLOR: TBD

PAINT

PNT-6
SHERWIN WILLIAMS, OVERALL NEUTRAL FIELD WALL PAINT. COLOR: SW 7637 OYSTER WHITE

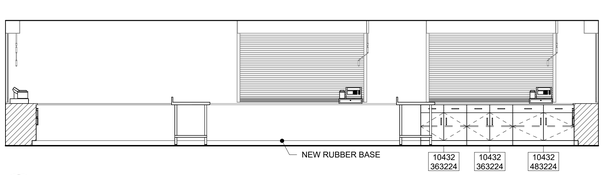
PNT-7
SHERWIN WILLIAMS, DOOR & WINDOW TRIM PAINT, COLOR: TBD

GENERAL FINISH NOTES

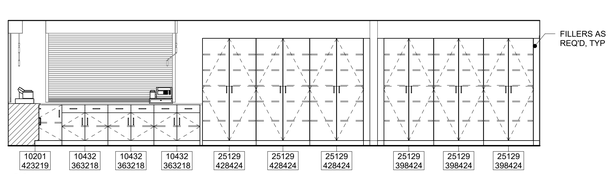
1. CONTRACTOR SHALL FLASH AT DOORS TO ALLOW FOR A LEVEL FLOOR FINISH BETWEEN CONC AND ADJACENT FINISHES SUCH AS EPOXY AND EXISTING FLOORING THAT WILL REMAIN.
2. ALL EXPOSED STEEL TO BE PAINTED FINISH. VERIFY COLOR IN FIELD WITH OWNER AND ARCHITECT.
3. ALL COLORS TO BE CONFIRMED DURING THE SUBMITTAL PROCESS.
4. ALL PAINT COLORS ARE PLACE-HOLDERS. EXACT COLOR SELECTIONS WILL BE CONFIRMED DURING THE SUBMITTAL PROCESS WITH DRAWDOWNS.
5. SUBMIT SAMPLES OF ALL SPECIFIED FINISHES AND COLORS FOR ARCHITECT'S APPROVAL PRIOR TO EXECUTION OF WORK.
6. ARCHITECT SHALL INTERPRET THE AESTHETIC MATCH OF THE CONTROL SAMPLES THEY POSSESS, AND THEIR ACCEPTANCE OR REJECTION OF THE SAMPLES OFFERED IS FINAL.
7. STARTING OF FINISH WORK SHALL INDICATE APPLICATOR'S ACCEPTANCE OF SUBSTRATE.
8. ENSURE ALL SURFACES TO RECEIVE FINISH ARE CLEAN, TRUE AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
9. CONCRETE SLAB TO BE FLASH PATCHED AS REQUIRED TO RECEIVE NEW FLOOR FINISH.
10. UPON RECEIPT FROM MANUFACTURER, THE INSTALLER SHALL INSPECT ALL MATERIAL FOR DEFECTS, SHIPPING DAMAGE, FLAWS, CORRECT COLOR AND PATTERN. DAMAGED OR INCORRECT MATERIALS SHALL BE SENT BACK TO THE MANUFACTURER FOR IMMEDIATE REPLACEMENT.
11. WHERE TWO FLOOR FINISHES MEET AT A DOORWAY, THE TRANSITION MUST OCCUR ON THE CENTERLINE OF THE DOOR IN ITS CLOSED POSITION.
12. EXTEND FLOOR FINISH UNDER OPEN-BOTTOM AND RAISED BOTTOM OBSTRUCTIONS. EXTEND FINISH INTO CLOSETS AND ALCOVE AREAS AS INDICATED, UNLESS ANOTHER FINISH IS INDICATED FOR THAT AREA.
13. APPLY RUBBER BASE WHERE SCHEDULED TO WALLS, COLUMNS AND OTHER PERMANENT FIXTURES IN ROOMS OR AREAS WHERE SPECIFIED. INSTALL BASE IN AS LONG LENGTHS AS PRACTICAL. TIGHTLY BOND TO BACKING THROUGHOUT THE LENGTH AND HEIGHT OF EACH PIECE, WITH CONTINUOUS CONTACT AT VERTICAL AND HORIZONTAL SURFACES. RUBBER CORNERS TO BE PRE-MOLDED, TYPICAL THROUGHOUT .
14. PRIOR TO OCCUPANCY, THE CONTRACTOR SHALL CLEAN ALL FINISHES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIALS & EQUIPMENT.
15. MAINTENANCE MATERIALS: DELIVER USEABLE SCRAPS OF CARPET, VINYL TILE, AND OTHER FINISH MATERIALS TO OWNER'S DESIGNATED STORAGE SPACE, PROPERLY PACKAGED (PAPER WRAPPED) AND IDENTIFIED.
16. ALL EXPOSED DUCTWORK TO BE PAINTED BY G.C.
17. TYPICAL THROUGHOUT - HOLLOW METAL FRAMES TO BE PAINTED PNT-7
18. PROVIDE TRANSITION STRIPS, AS REQUIRED, AT INTERSECTION OF DIFFERENT FLOORING MATERIALS.

ACOUSTIC CEILING INSTALLTION

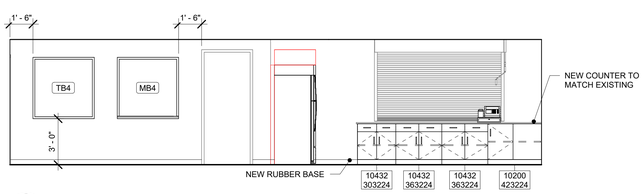
1. CEILING SHALL BE TRUE, FLAT,STRAIGHT AND REGULAR. PROVIDE STABILIZER BARS AS REQUIRED TO DISTRIBUTE LOAN EQUALLY OVER TWO OR MORE RUNNERS.
2. LEVEL CEILING TO BE WITHIN 1/8" IN 12 FEET IN ANY DIRECTION. LEVEL WITH HANGER WARE. TAUT AND PLUMB WITHOUT KNICKING OR BENDING HANGER WIRES. CEILING HEIGHT SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
3. INTALL MAX. LENGTHS AND EDGE MOULDING AT INTERSECTION OF CEILING AND VERTICAL SURFACE. MITER ALL CORNERS.
4. LAY DIRECTIONAL PATTERN UNITS IN SINGLE DIRECTION.
5. ALL FIXTURE TRIM (LIGHTING, SPEAKER, HVAC GRILLES, ETC.) SHALL BE METAL AND PAINTED TO MATCH ADJACENT CEILING FINISH. PLASTIC TRIM IS NOT ACCEPTABLE UNLESS APPROVED BY PROFESSIONAL.



6 INTERIOR ELEVATION
A11.1 1/4" = 1'-0"
101 CONCESSION



7 INTERIOR ELEVATION
A11.1 1/4" = 1'-0"
101 CONCESSION
102 STORAGE



8 INTERIOR ELEVATION
A11.1 1/4" = 1'-0"
101 CONCESSION

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CONSULTANT:

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESIVIOR ST., LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : Project Number
DRAWN BY : SAB

SHEET TITLE:
CONCESSION STAND FLOOR PLANS

SHEET NUMBER:
A11.1

CONFORMED SET

2/28/2025 11:42:55 AM

J.P. McCASKEY
STADIUM RENOVATION
235 N. RESERVOIR ST.
LANCASTER, PA. 17602

HOME GRANDSTAND RENOVATION
22 ROW x 195'-8", 113" ELEVATED FRONT WALKWAY
VARABLE RISE x 25.5" TREAD EXISTING CONCRETE TREAD
(2) 96" CLEAR STAIR TO GRADE
(2) 60" CLEAR RAMP TO GRADE

VISITOR GRANDSTAND RENOVATION
11 ROW x 195'-8", 93" ELEVATED FRONT WALKWAY
VARABLE RISE x 25.5" TREAD EXISTING CONCRETE TREAD
(2) 96" CLEAR STAIR TO GRADE
(2) 60" CLEAR RAMP TO GRADE

MATERIAL FINISHES
FOOTBOARDS: MILL FINISH
SEATS: EXISTING PLANK
RISERS: NOT USED
GUARDRAIL: BLACK VINYL CHAIN LINK
STRUCTURE: GALV

DESIGN CRITERIA
CODES: 2018 IBC BUILDING CODE
ICC-300, CURRENT EDITION

WIND LOAD: 121 MPH
EXPOSURE C
RISK CATEGORY: III

SEATS (VERTICAL): 120 PLF

HORIZ. SWAY: 24 PLF PARALLEL TO SEATS
10 PLF PERPENDICULAR TO SEATS

TREADS: CONCENTRATED LOAD OF 300lbs/4 sq. ins.

DESIGN LOADS: DEFLECTION: L/200
LIVE LOAD: 100 PSF
DEAD LOAD: 20 PSF

GUARDRAIL: 50 PLF ANY DIRECTION AT TOP
200 LB CONCENTRATED AT TOP
50 PSF INFILL

DRAWING INDEX

SHEET	REV	DESCRIPTION	SHEET	REV	DESCRIPTION
C1.1	B	COVER SHEET	A6.1	A	PLANK CONFIGURATIONS
			A6.2	A	FRONT WALKWAY SECTIONS
			A6.3	A	ALUMNINUM LEGEND & DETAILS
A0.1	B	FOUNDATION PLAN	A6.4	B	ENLARGED HANICAP DETAILS
A0.2	B	FOUNDATION DETAILS			
A1.1	A	EXISTING SEATING PLANS HOME & VISITOR	-	-	-
A1.2	B	NEW SEATING PLANS HOME & VISITOR	A7.1	A	FENCE, GUARDRAILS, & FITTING DETAILS
A2.1	A	SECTION @ EXISTING HOME SEATING			
A2.2	A	SECTION @ NEW HOME SEATING			
A2.3	A	SECTION @ NEW HOME MID AISLE RAILS			
A2.4	A	SECTION @ EXISTING VISITORS SEATING			
A2.5	A	SECTION @ NEW VISITORS SEATING			
A2.6	A	SECTION @ NEW VISITORS MID AISLE RAILS			
A3.1	A	ELEVATIONS @ NEW FRONT WALKWAY HOME & VISITOR			
A4.1	A	113" ELEV. x 8'-0" CLEAR STAIR FRAMING & HANDRAIL PLANS			
A4.2	A	STAIR SECTIONS & DETAILS			
A5.1	A	38" ELEV. x 5'-0" CLEAR RAMP FRAMING & HANDRAIL PLANS			
A5.2	A	RAMP ELEVATIONS			
A5.3	A	113" ELEV. x 5'-0" CLEAR RAMP FRAMING PLAN			
A5.4	A	113" ELEV. x 5'-0" CLEAR RAMP HANDRAIL PLAN			
A5.5	A	RAMP ELEVATIONS			

STEEL NOTES
1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC, "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STEEL BUILDINGS", CURRENT EDITION.STEEL 2. 2. STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992 (W SHAPES) AND ASTM A36 FOR PLATES, ANGLES AND BARS.
3. STEEL SHAPES SHALL BE GRADE 50, UNLESS NOTED OTHERWISE.
4. STEEL TO BE GALVANIZED AFTER FABRICATION PER ASTM A123.
5. GAGE METAL STEEL TO BE GALVANIZED ASTM A792.
6. ANY FIELD WELDING TO GALVANIZED STEEL SHALL BE TOUCHED UP USING COLD-GALV PAINT.
7. STEEL WELDING SHALL CONFORM TO AWS D-1.1 STRUCTURAL WELDING CODE. ELECTRODES SHALL BE E70XX.
8. BOLTS SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
9. CONNECTIONS 5/8" AND LARGER A325N. CONNECTIONS 1/2" AND SMALLER A307.
10. NO CONNECTIONS USING HIGH-STRENGTH BOLTS ARE CLASSIFIED AS SLIP-CRITICAL OR REQUIRE THE BOLTS TO BE PRE-TENSIONED. MINIMUM TIGHTNESS REQUIRED IS TO BE "SNUG-TIGHT" AS PER RCSC, "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CURRENT EDITION.

ALUMINUM NOTES
1. ALUMINUM WELDING SHALL CONFORM TO AWS D-1.2 STRUCTURAL WELDING CODE - ALUMINUM WITH FIBER ALLOY 4043 FOR FILLET WELDS FOR BUILDING TYPE STRUCTURES.
2. PLANKS SHALL BE EXTRUDED ALUMINUM ALLOY 6063-T6.
3. EXTRUDED ALUMINUM STRUCTURAL SHAPES SHALL BE 6061-T6.
4. WHERE CLEAR ANODIZED FINISH IS INDICATED, FINISH SHALL BE 204R1.
5. AS SPECIFIED AND ILLUSTRATED, ALL ALUMINUM FOOTBOARDS AND WALKING SURFACES ARE MILL FINISH. MILL FINISH ALUMINUM, WHEN EXPOSED TO THE ATMOSPHERE, FORMS A TRANSPARENT, PROTECTIVE OXIDE COATING. MILL FINISH ALUMINUM WILL STAIN WHEN MOISTURE IS TRAPPED AGAINST IT.. THIS MOISTURE ENTRAPMENT CAN OCCUR AT SEVERAL STAGES OF MATERIAL DELIVERY INCLUDING PACKAGING, SHIPPING AND STORAGE. THESE STAINS CAN BE ERRATIC AND VARY IN COLOR FROM LIGHT BRONZE TO BLACK TO CHALKY WHITE. MOISTURE STAINS HAVE NO EFFECT ON THE STRENGTH OF THE MATERIAL. THESE STAINS BECOME LESS NOTICEABLE DURING NORMAL USAGE AND EXPOSURE TO THE SUN'S RADIATION.

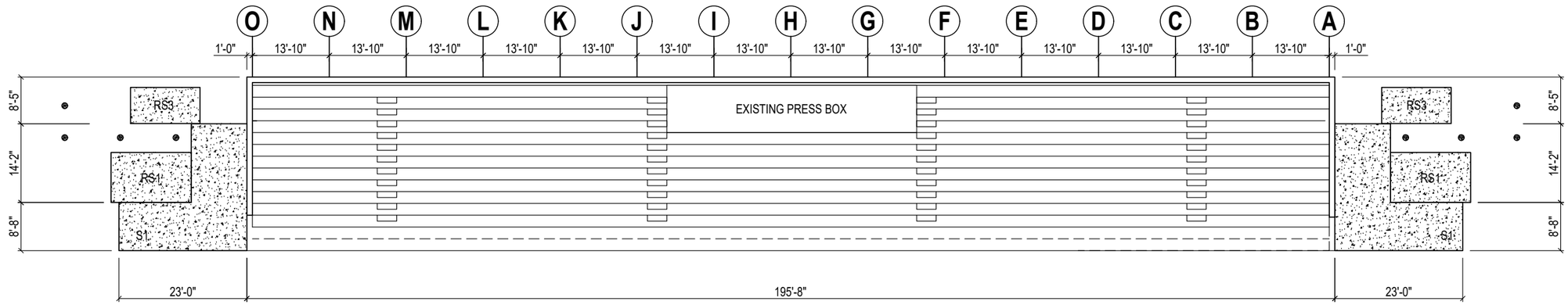
CONCRETE NOTES
1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615. BARS SHALL BE GRADE 60.
3. CONCRETE MIX SHALL BE DESIGNED TO PROVIDE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.
4. SOIL BEARING PRESSURE = 3000 PSF PER GEOTECH ENGINEERING REPORT DATED 01/08/2025.

AISC CERTIFIED FABRICATOR
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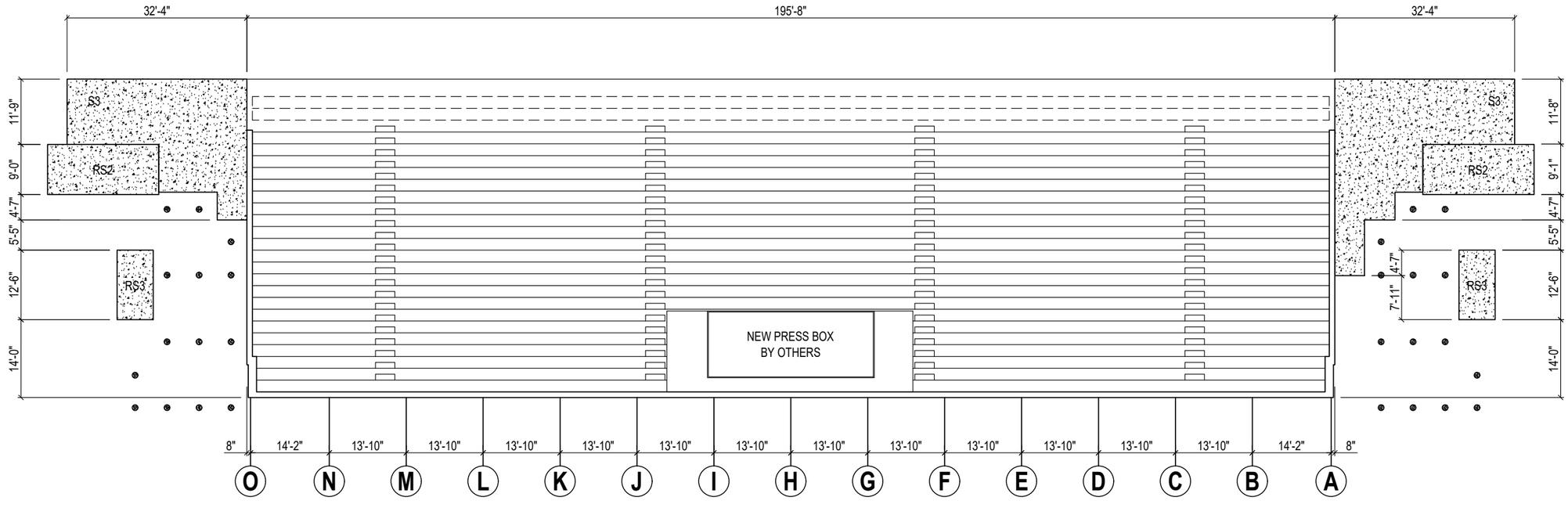
TITLE: COVER SHEET
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: C1.1 Rev.: B



VISITOR FOUNDATION PLAN
A1.2 SCALE: 3/64"=1'-0"



HOME FOUNDATION PLAN
A1.2 SCALE: 3/64"=1'-0"

CERTIFIED FABRICATOR
GT GRANDSTANDS™
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TITLE: FOUNDATION PLAN

PROJECT:
J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DESCRIPTION	DATE

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A0.1 Rev.: B

FOUNDATION AND REINFORCING SCHEDULE

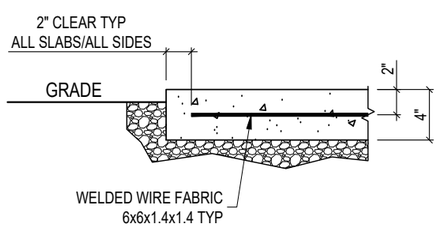
QTY	Footing Marks	Footing Dims 'X' x 'Y' x 'D'	Min. Embed	Footing Reinforcment	Pier Size 'Z'	Pier Reinforcing		T/Pier/Slab Elevation	Anchor Bolts			Finish x Dia. x Len x Thrd Len	TTL Qty		
						Vertical	Ties**		18"	XX"	XX"		18"	XX"	XX"
6	P1	-	48"	-	12" DIA.	(4) #5 Rebar	#3 Rebar Ties @ 12" o/c	100'-8"	4			(4) Galv. 3/4" x 18" Bolt-Threaded 6"	24	0	0
2	S1	23'-0"x22'-10"x4"	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"				-	0	0	0
1	S2	25'-4"x32'-4"x4"	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"				-	0	0	0
1	S3	35'-4"x32'-4"x4"	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"				-	0	0	0
2	RS1	9'-0"x14'-5"x4"	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"				-	0	0	0
2	RS2	9'-0"x20'-0"x4"	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"				-	0	0	0
4	RS3	6'-6"x12'-6"x4"	-	6 x 6 W1.4 x W1.4 WWF	-	-	-	100'-0"				-	0	0	0
				* *Begin 1st Tie 2" below top, 2nd tie @ 3-1/2" below top, remainder per								TTL A.B. Req'd:	24	0	0

F1	FOOTER #1	RS1	RAMP/STAIR PIER #1	E.W.	EACH WAY
CB1	CURB #1	RW1	RETAINING WALL #1	E.F.	EACH FACE
GB1	GRADE BEAM #1	S1	SLAB #1	T&B	TOP & BOTTOM
P1	PIER #1	TE1	THICKENED EDGE #1	O/C	ON CENTER
PF1	PIER/FOOTER #1			A.N.	AS NOTED

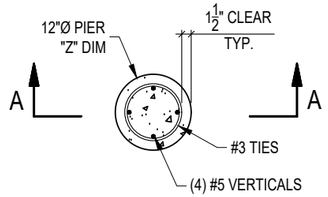
FOUNDATION - CAST IN PLACE CONCRETE

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. 2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615. BARS SHALL BE GRADE 60.
3. CONCRETE MIX SHALL BE DESIGNED TO PROVIDE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.
4. REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
5. REBARS SHALL BE CONTACT LAP SPLICED 30 BAR DIAMETERS.
6. ALL SLABS TO HAVE WELDED WIRE FABRIC 6x 6x 1.4 x1.4 CONFORMING TO ASTM A185. OR FIBREMESH.
7. AFTER EXCAVATING SOIL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. (ASTM - D-1557)
8. GROUT SHALL BE NON SHRINK, NATURAL AGGREGATE MASTER BUILDERS SET GROUT OR APPROVED EQUAL.

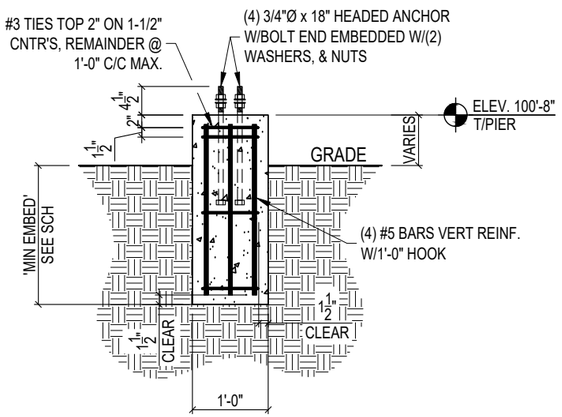
ANCHOR ROD TOLERANCES
Horizontal location ± 1/8"
Vertical elevation ± 1/4"
THE ABOVE TOLERANCES MUST BE HELD FOR PROPER GRANDSTAND INSTALLATION (UNLESS NOTED OTHERWISE)



1 A0.2 **TYP SLAB REINFORCEMENT**
SCALE: NONE



2 A0.2 **12" PIER VERT. REINFORCING DETAIL**
SCALE: 1/2"=1'-0"



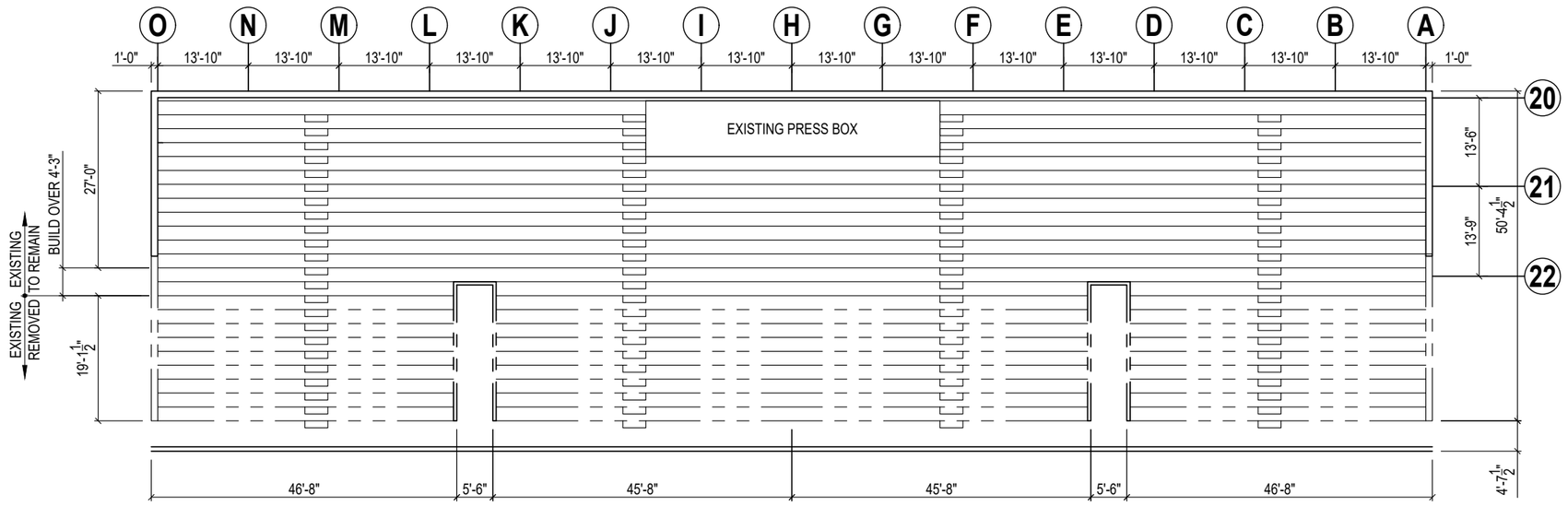
A-A A0.2 **SECTION @ 12" PEIRS**
SCALE: 1/2"=1'-0"

CERTIFIED FABRICATOR
www. gtgrandstands.com
GT GRANDSTANDS™

TITLE: FOUNDATION DETAILS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

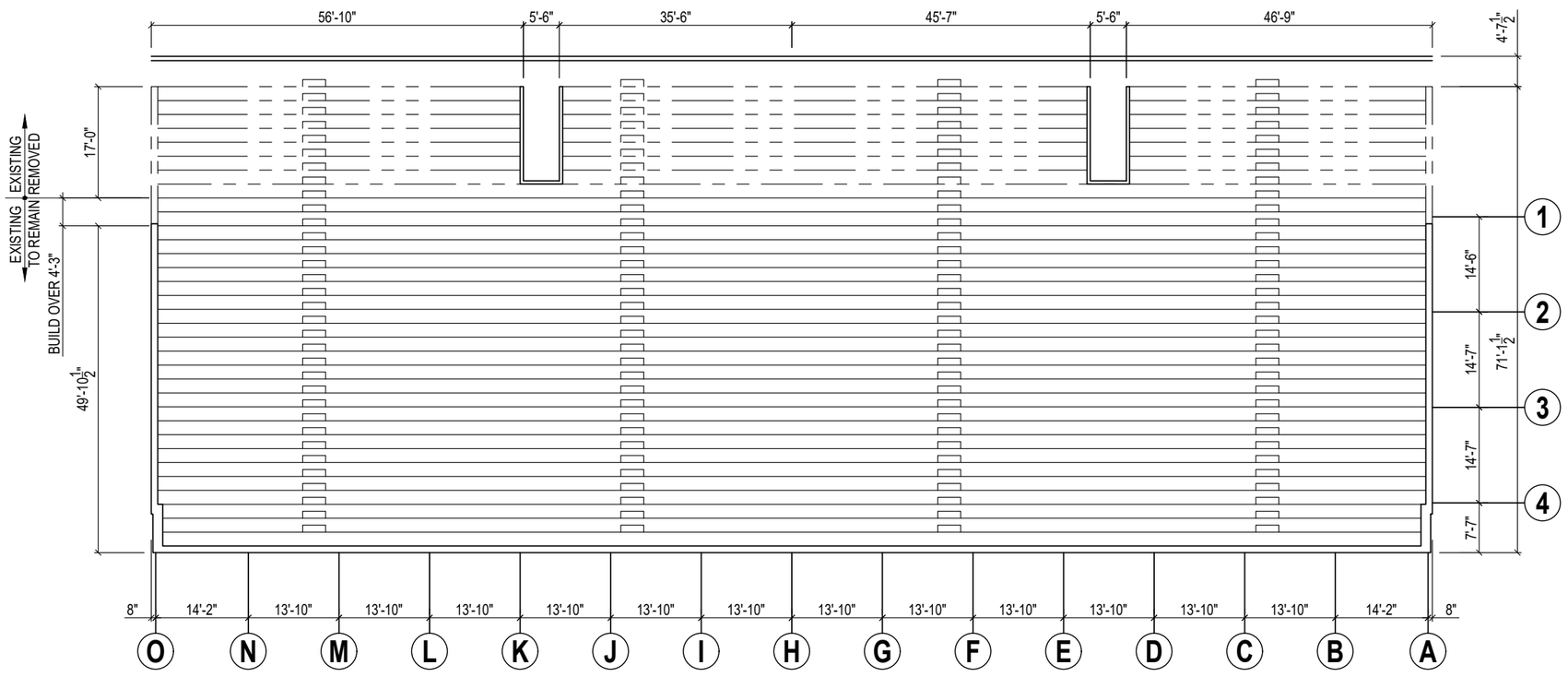
REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A0.2 Rev.: B



EXISTING VISITOR SEATING PLAN

A1.1 SCALE: 3/64"=1'-0"



EXISTING HOME SEATING PLAN

A1.1 SCALE: 3/64"=1'-0"

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www. gtgrandstands.com

TITLE: EXISTING SEATING PLANS HOME & VISITOR

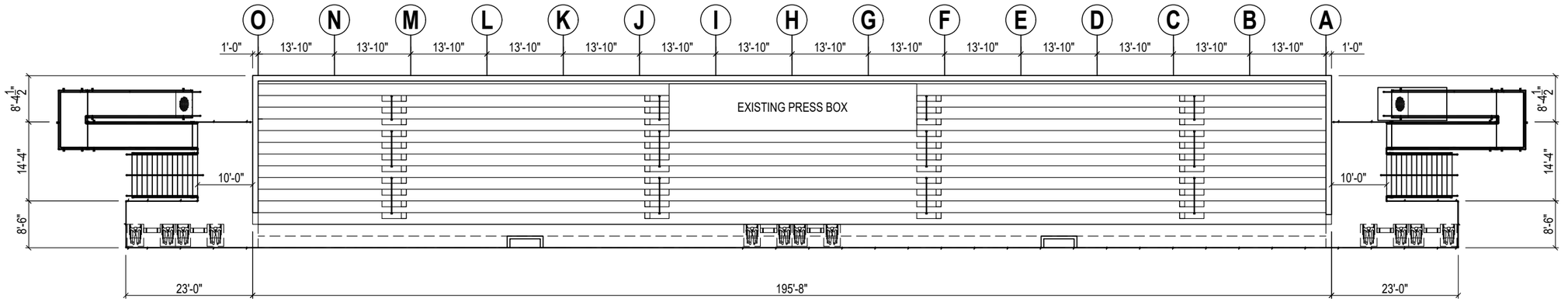
PROJECT:
J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

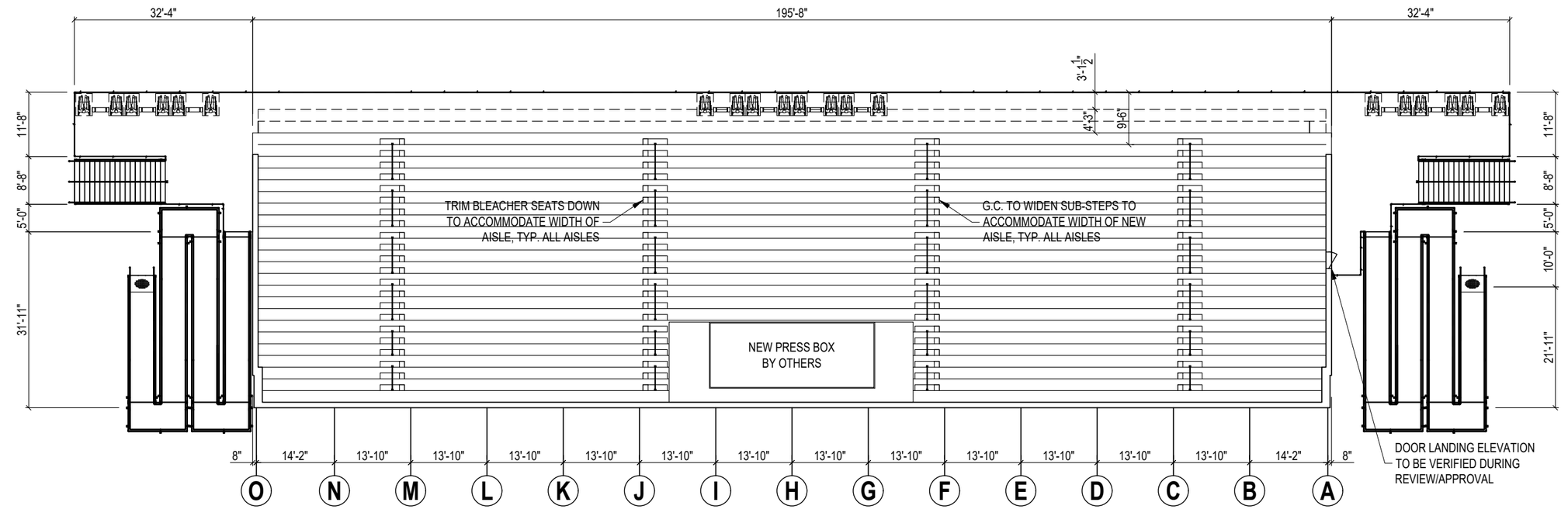
DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --

JOB #: 3038

SHEET #: A1.1 Rev.: A



NEW VISITOR SEATING PLAN
A1.2 SCALE: 3/64"=1'-0"



NEW HOME SEATING PLAN
A1.2 SCALE: 3/64"=1'-0"

CERTIFIED FABRICATOR
GT GRANDSTANDS™
www. gtgrandstands.com

TITLE: NEW SEATING PLANS HOME & VISITOR

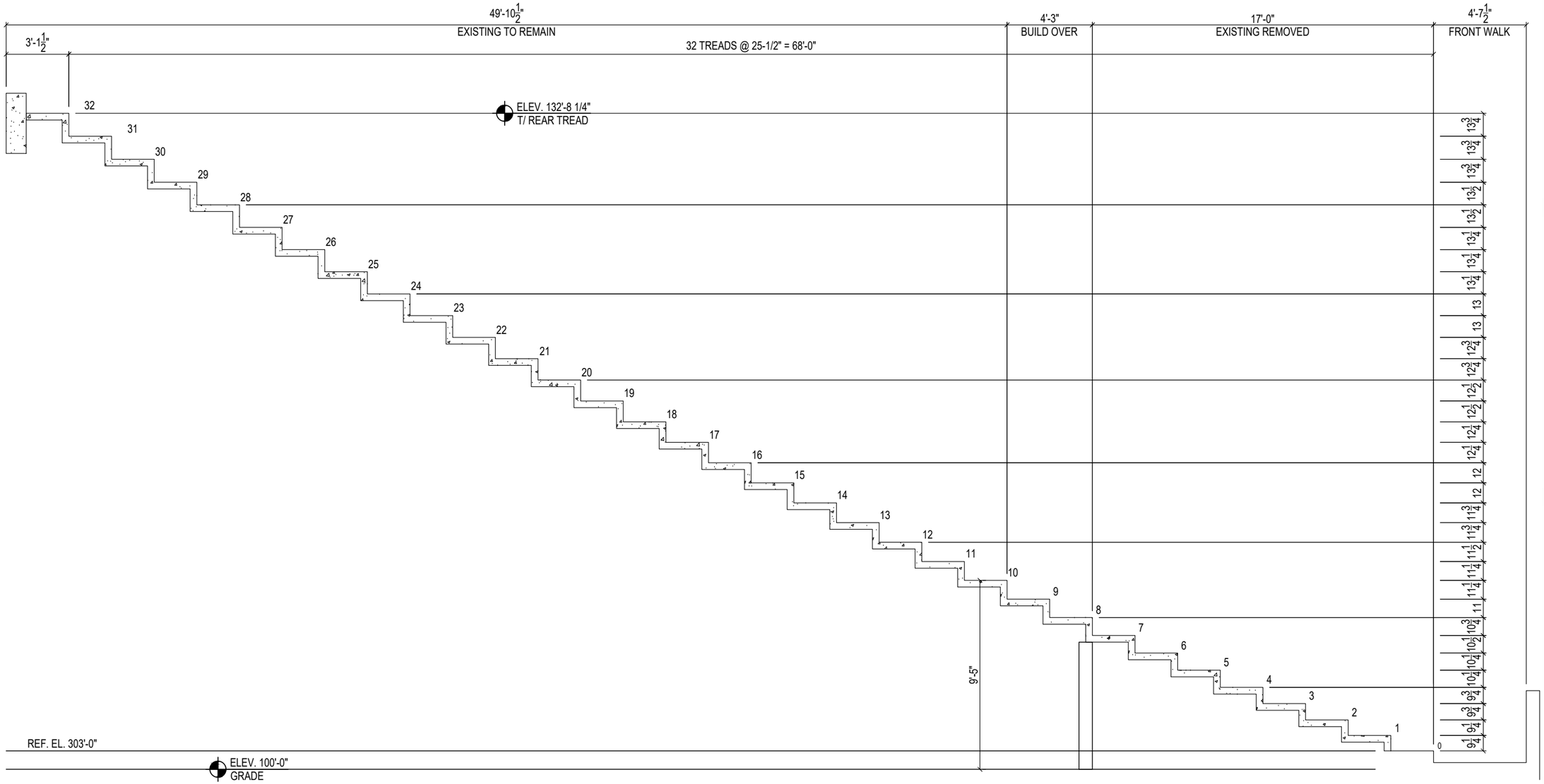
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --

JOB #: 3038

SHEET #: A1.2 Rev.: B



EXISTING HOME SEATING SECTION

A2.1 SCALE: 3/16"=1'-0"

US CERTIFIED FABRICATOR

GT GRANDSTANDS™

www. gtgrandstands.com

TITLE: SECTION @ EXISTING HOME SEATING

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

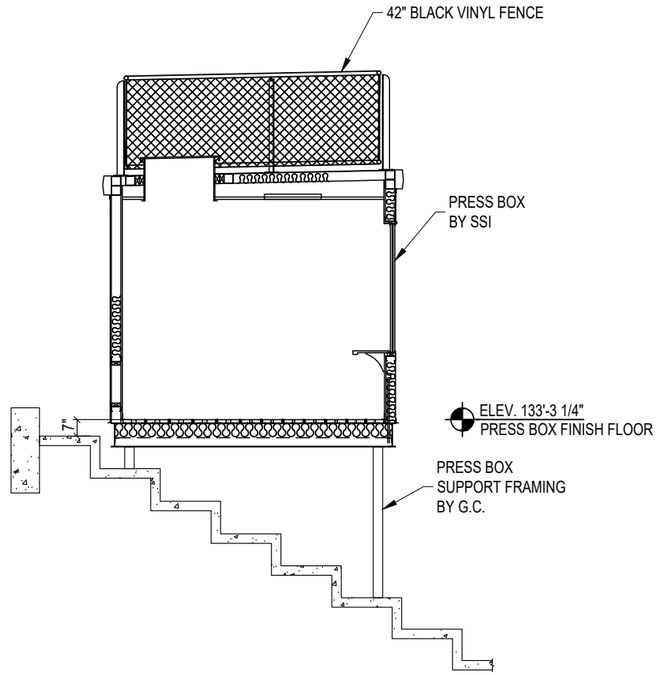
REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25

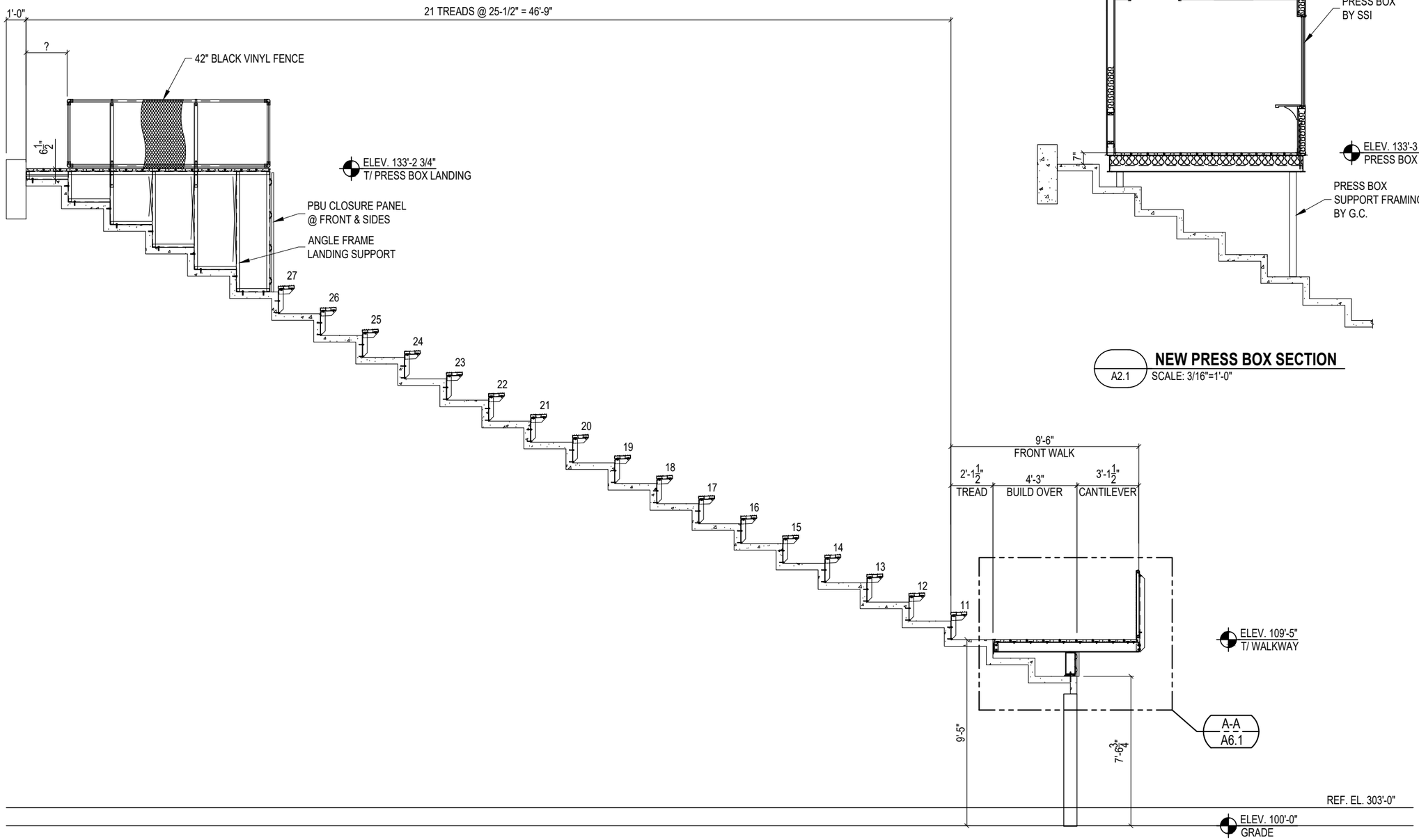
CHK'D BY: SN | DATE: --

JOB #: 3038

SHEET #: A2.1 | Rev.: A



A2.1 **NEW PRESS BOX SECTION**
SCALE: 3/16"=1'-0"



A2.2 **NEW HOME SEATING SECTION**
SCALE: 3/16"=1'-0"

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GT GRANDSTANDS™
www. gtgrandstands.com

TITLE: SECTION @ NEW HOME SEATING

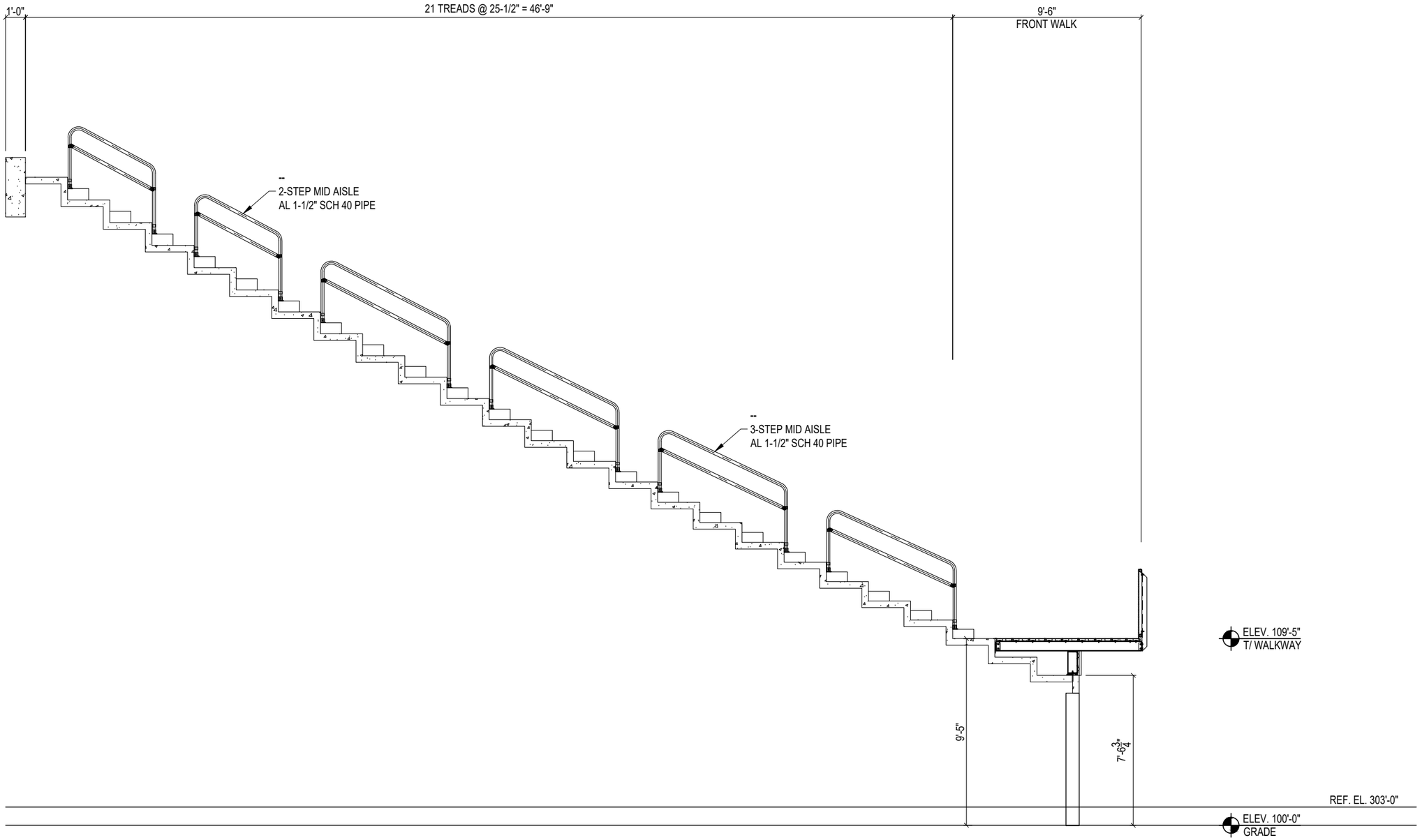
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --

JOB #: 3038

SHEET #: A2.2 Rev.: A



NEW HOME MID-AISLE RAILS

A2.3 SCALE: 3/16"=1'-0"

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TITLE: SECTION @ NEW HOME MID AISLE RAILS

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

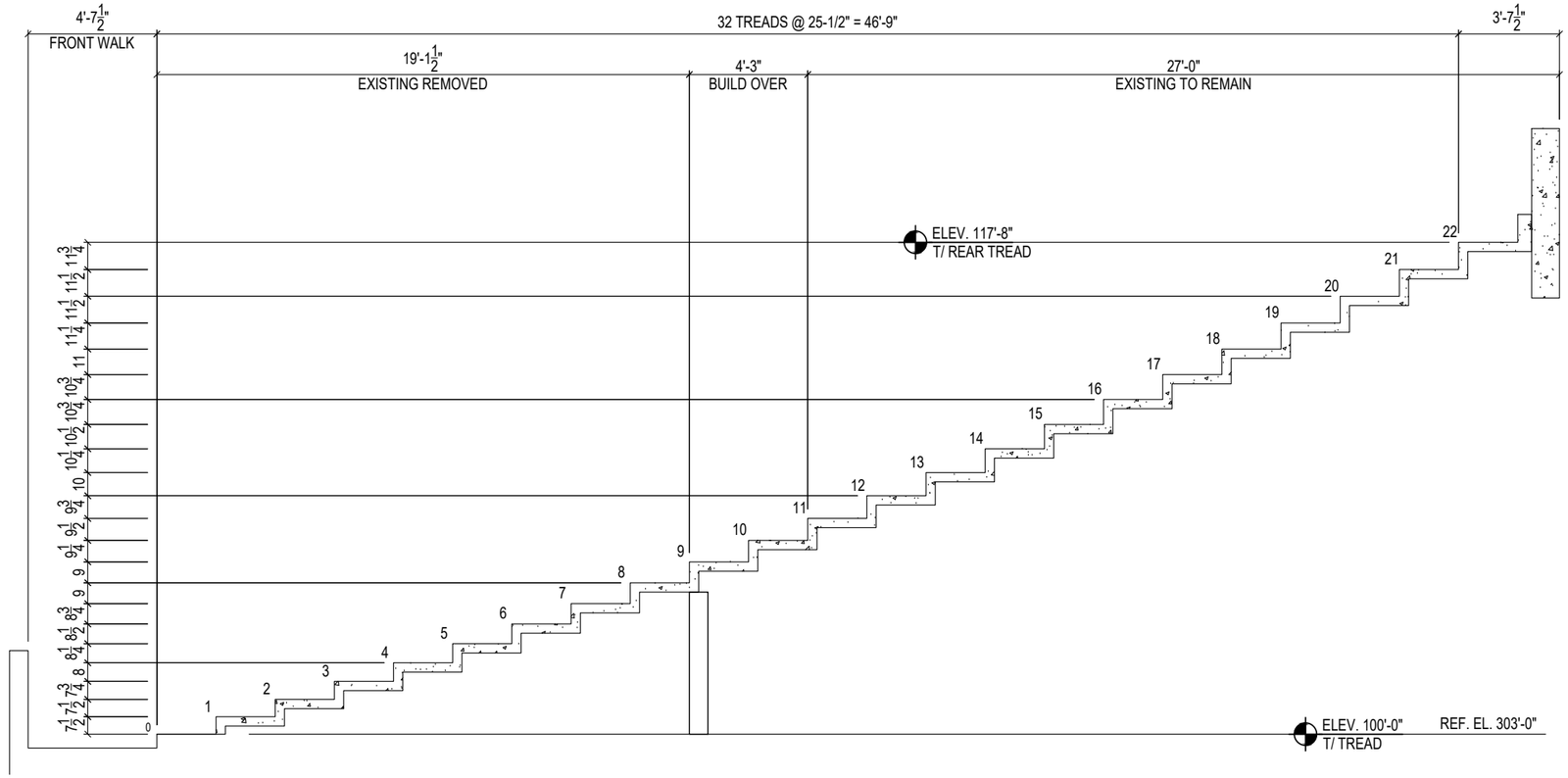
REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25

CHK'D BY: SN | DATE: --

JOB #: 3038

SHEET #: A2.3 | Rev.: A



EXISTING VISITOR SEATING SECTION

A2.4 SCALE: 3/16"=1'-0"

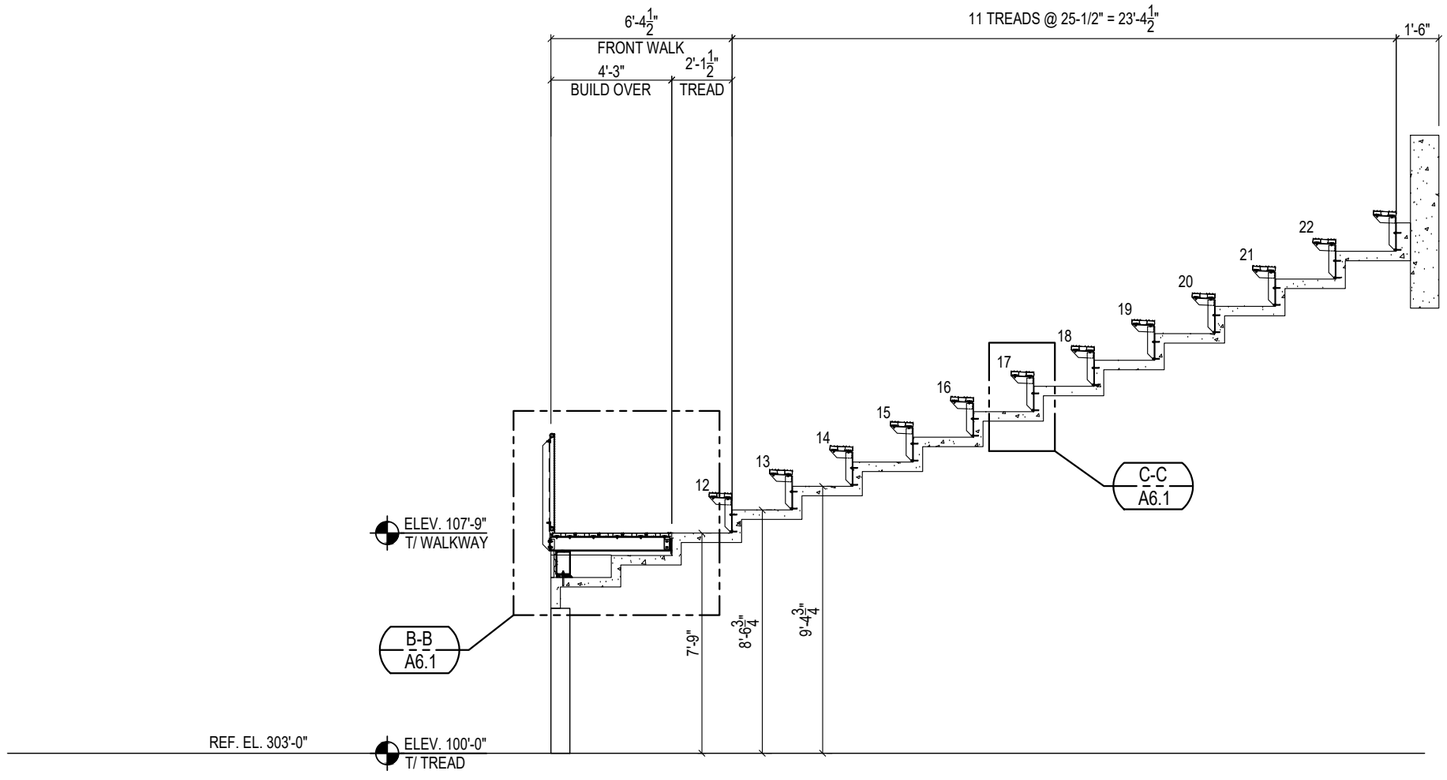
GT CERTIFIED FABRICATOR
GT GRANDSTANDS™
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TITLE: SECTION @ EXISTING VISITOR SEATING

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25
CHK'D BY: SN | DATE: --
JOB #: 3038
SHEET #: A2.4 | Rev.: A



A2.5 **NEW VISITOR SEATING SECTION**
SCALE: 3/16"=1'-0"

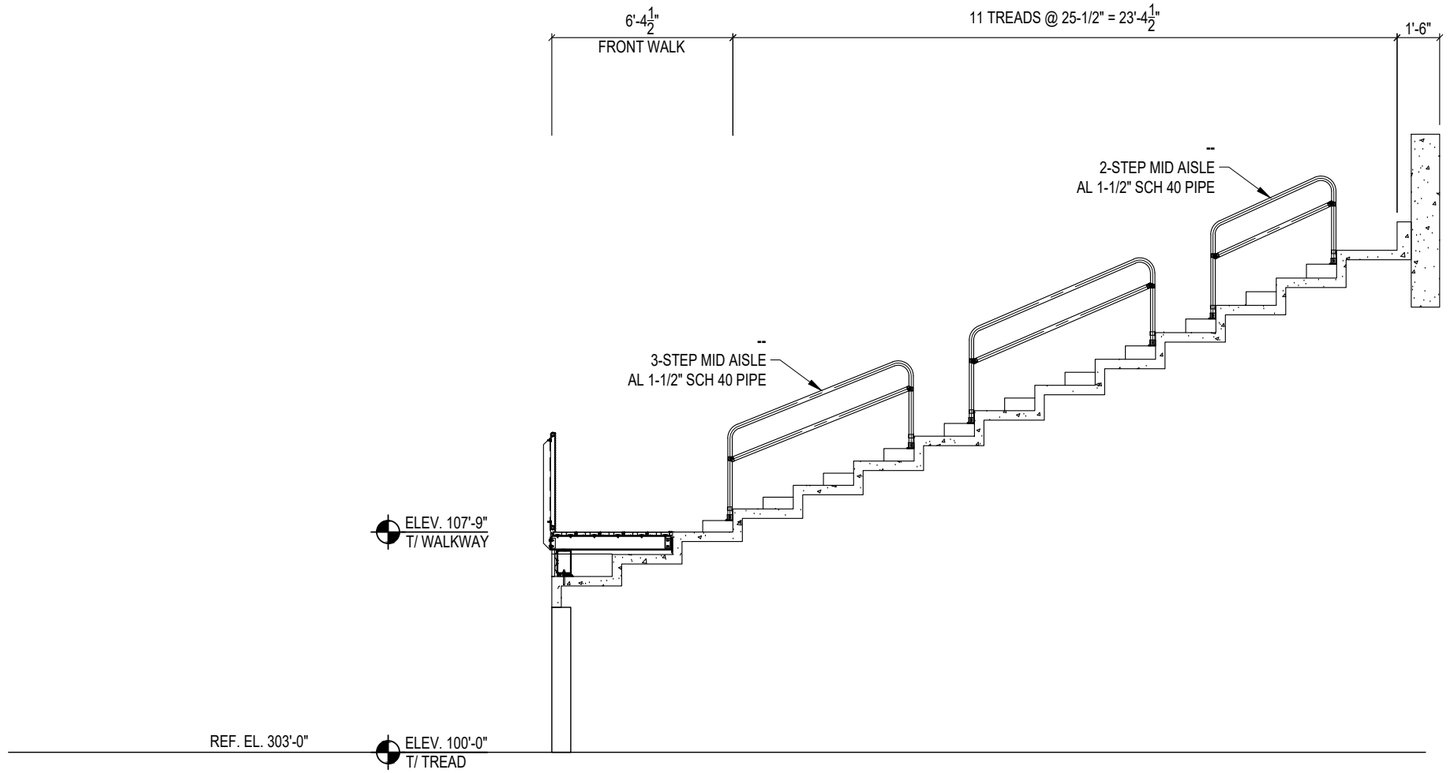
GT GRANDSTANDS™
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TITLE: SECTION @ NEW VISITORS SEATING

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25
CHK'D BY: SN | DATE: --
JOB #: 3038
SHEET #: A2.5 | Rev.: A



NEW VISITOR SEATING SECTION

A2.6 SCALE: 3/16"=1'-0"

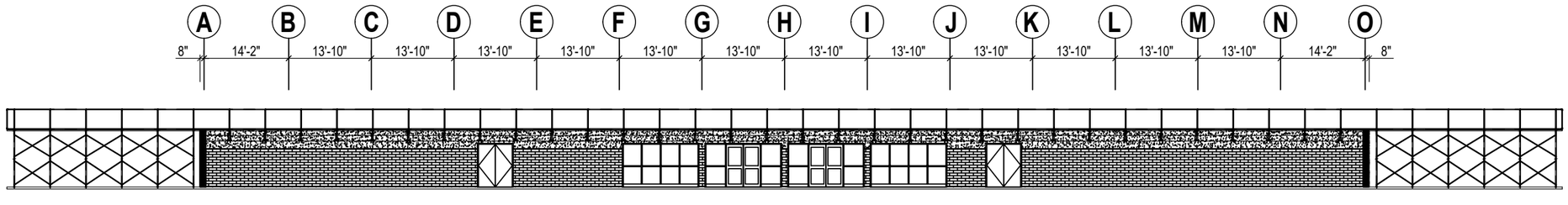
GT GRANDSTANDS™
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TITLE: SECTION @ NEW VISITORS MID AISLE RAIL

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

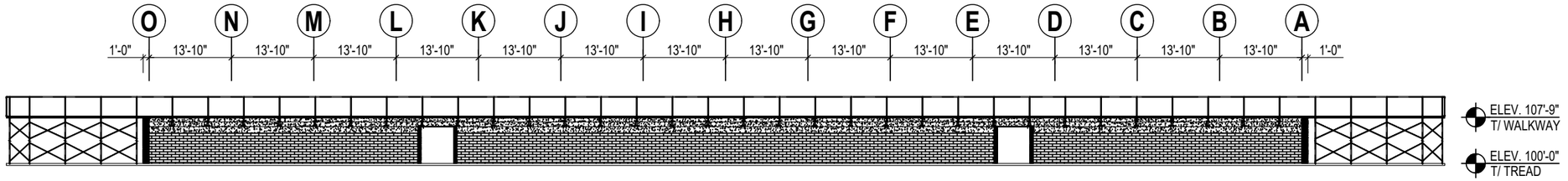
REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25
CHK'D BY: SN | DATE: --
JOB #: 3038
SHEET #: A2.6 | Rev.: A



HOME FRONT WALKWAY ELEVATION

A3.1 SCALE: 3/64"=1'-0"



VISITORS FRONT WALKWAY ELEVATION

A3.1 SCALE: 3/64"=1'-0"

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TITLE: ELEVATIONS @ NEW FRONT WALKWAYS

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

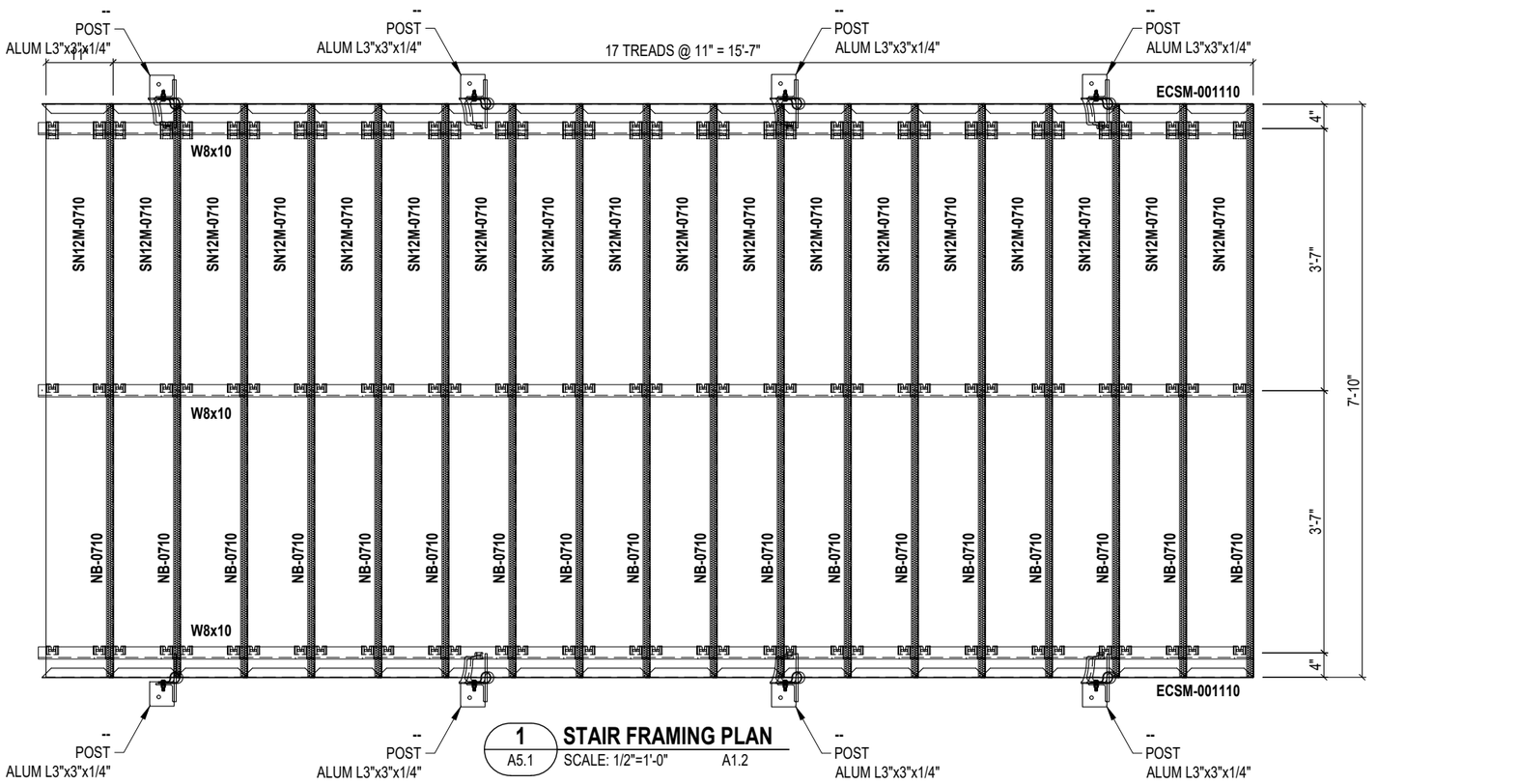
REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25

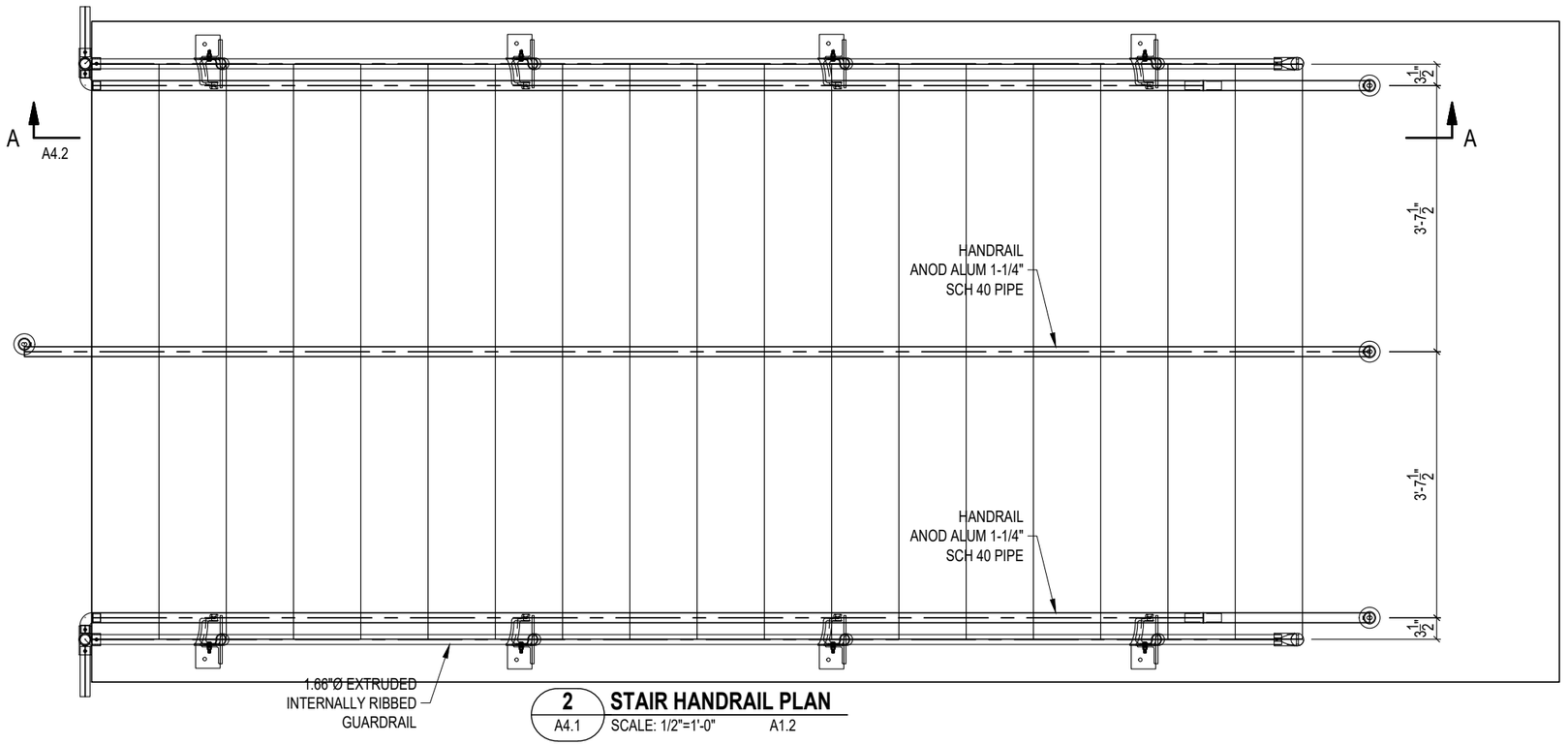
CHK'D BY: SN | DATE: --

JOB #: 3038

SHEET #: A3.1 | Rev.: A



1 A5.1 **STAIR FRAMING PLAN** SCALE: 1/2"=1'-0" A1.2



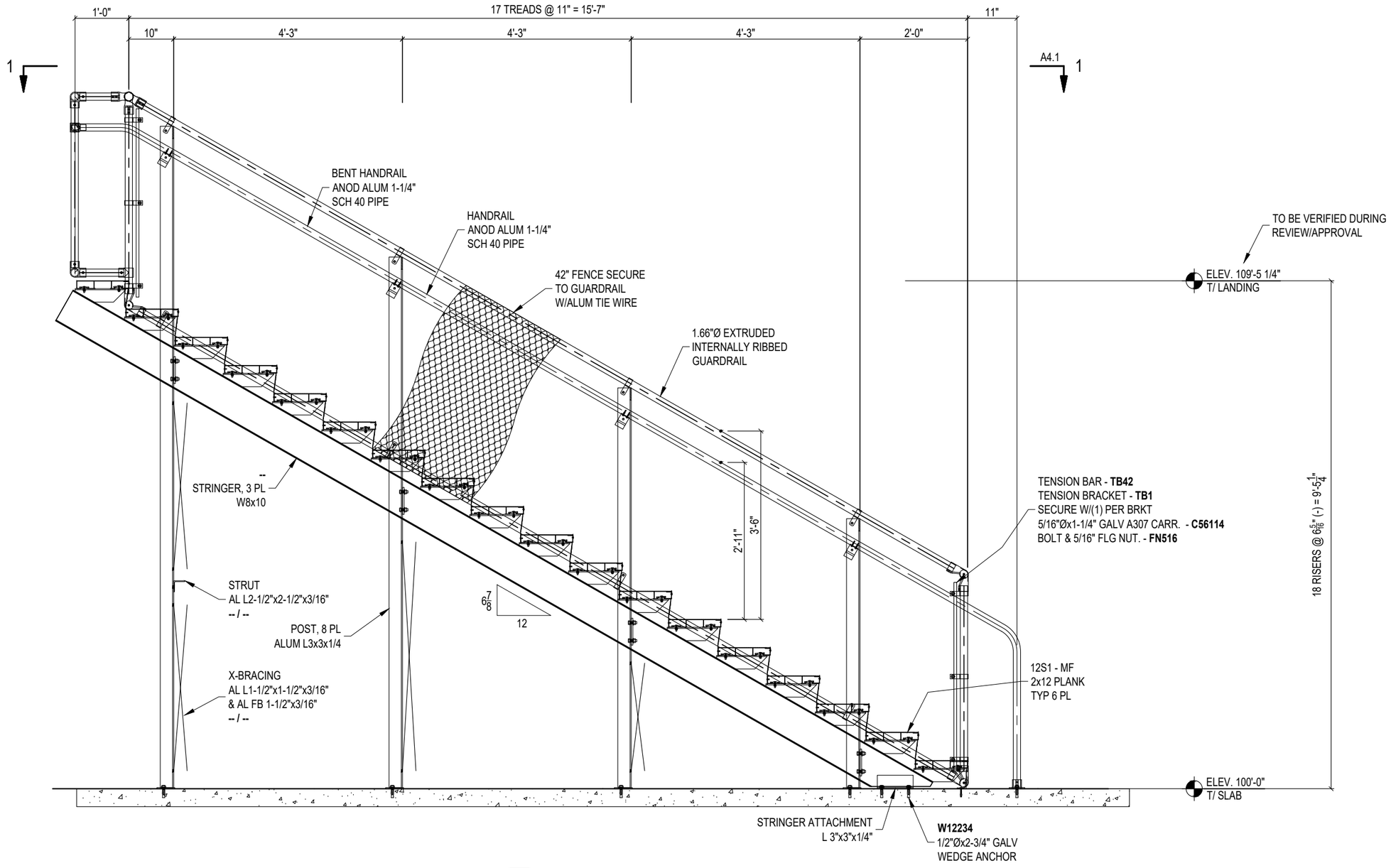
2 A4.1 **STAIR HANDRAIL PLAN** SCALE: 1/2"=1'-0" A1.2

GT CERTIFIED FABRICATOR
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TITLE: STAIR FRAMING & HANDRAIL PLANS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A4.1 Rev.: A



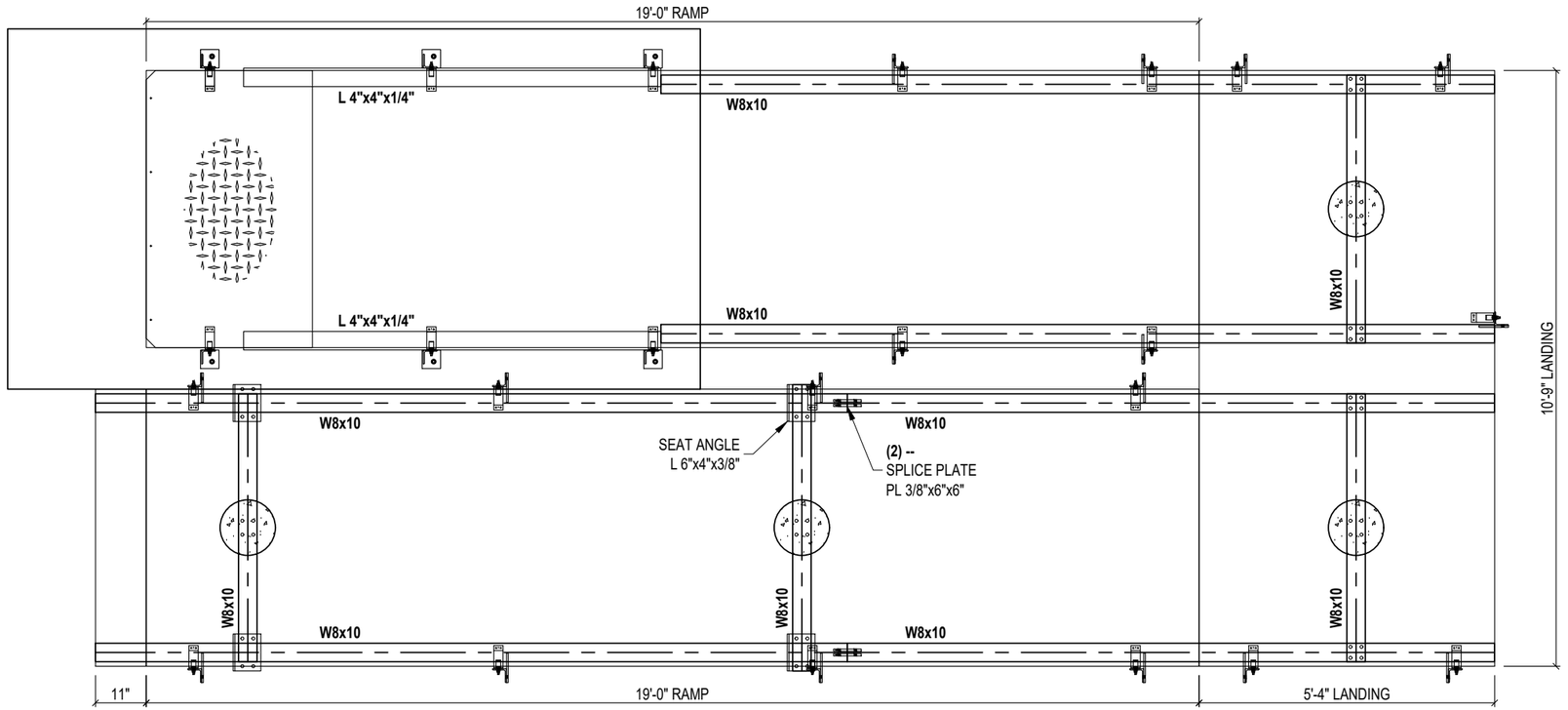
A A4.2 **STAIR ELEVATION VIEW**
SCALE: 1/2"=1'-0" A4.1

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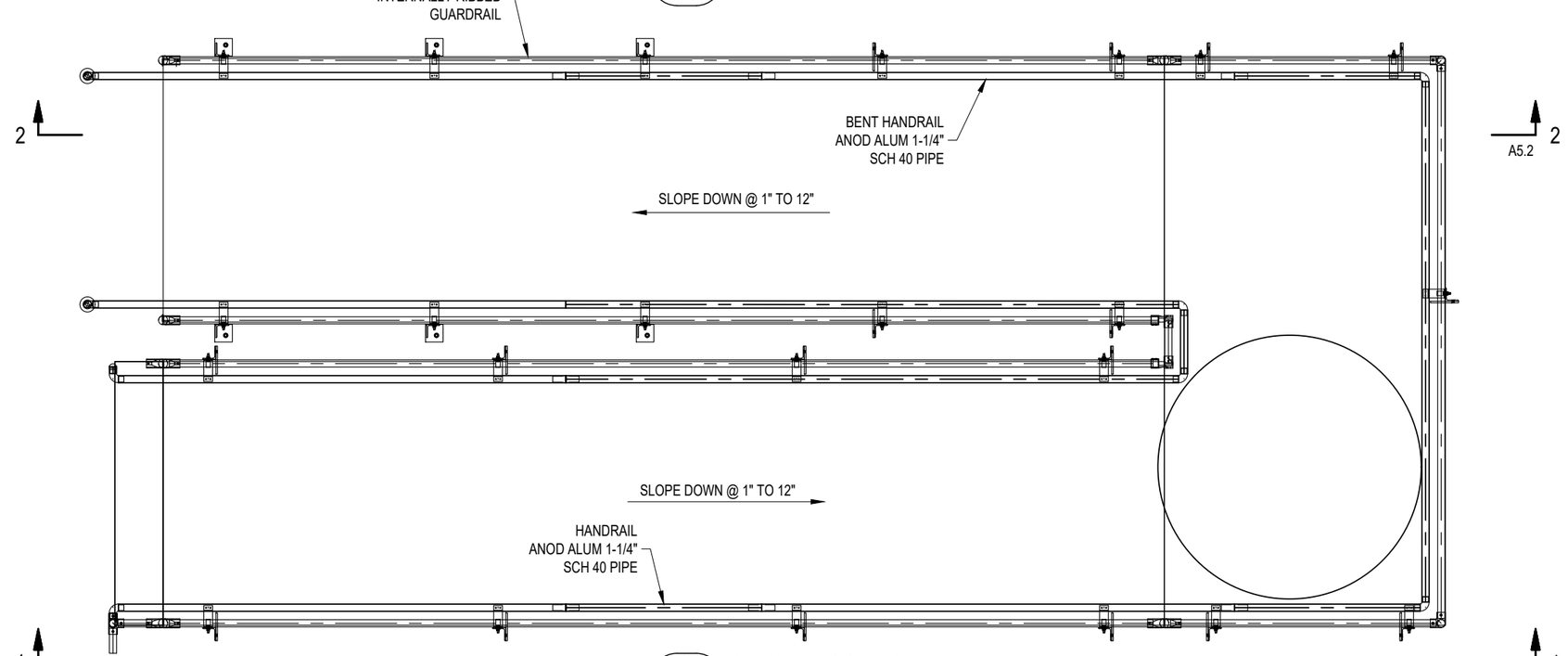
TITLE: STAIR SECTIONS & DETAILS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A4.2 Rev.: A



1 RAMP FRAMING PLAN
A5.1 SCALE: 3/8"=1'-0" A1.2



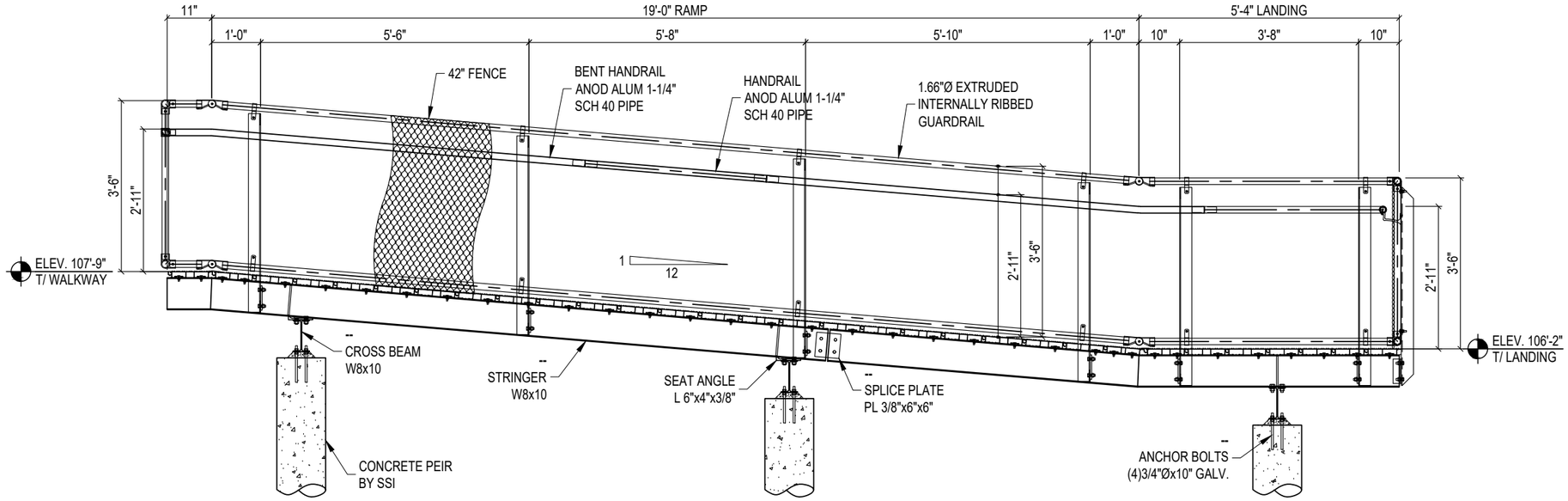
2 RAMP HANDRAIL PLAN
A5.1 SCALE: 3/8"=1'-0" A1.2

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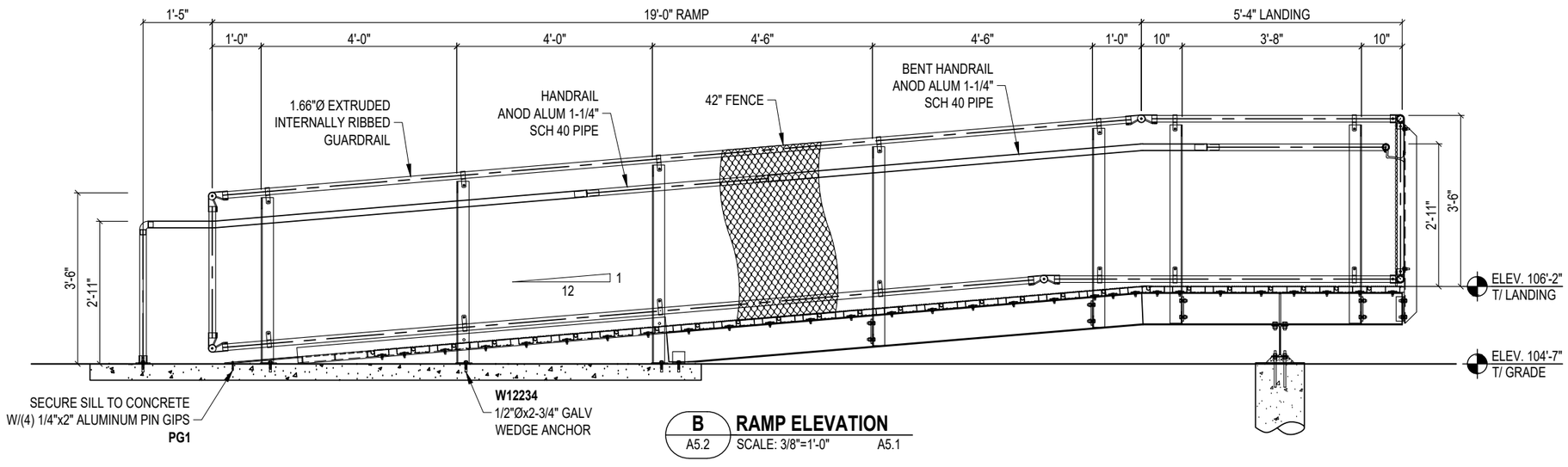
TITLE: RAMP FRAMING & HANDRAIL PLANS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A5.1 Rev.: A



A **RAMP ELEVATION**
A5.2 SCALE: 3/8"=1'-0" A5.1



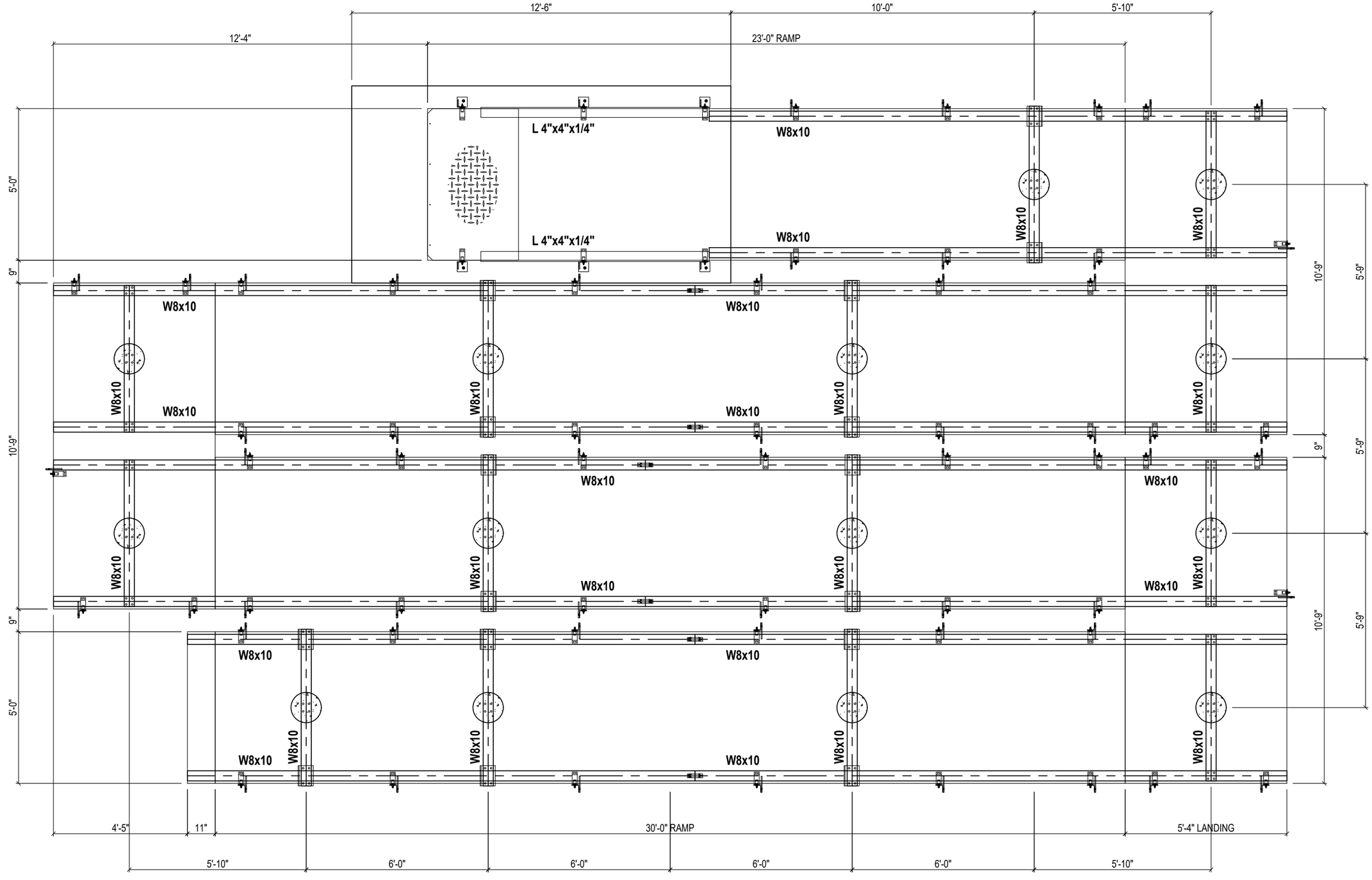
B **RAMP ELEVATION**
A5.2 SCALE: 3/8"=1'-0" A5.1

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TITLE: RAMP ELEVATIONS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

DESCRIPTION	REV	BY	DATE

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A5.2 Rev.: A



1 **RAMP FRAMING PLAN**
A5.3 SCALE: 5/16"=1'-0" A1.2

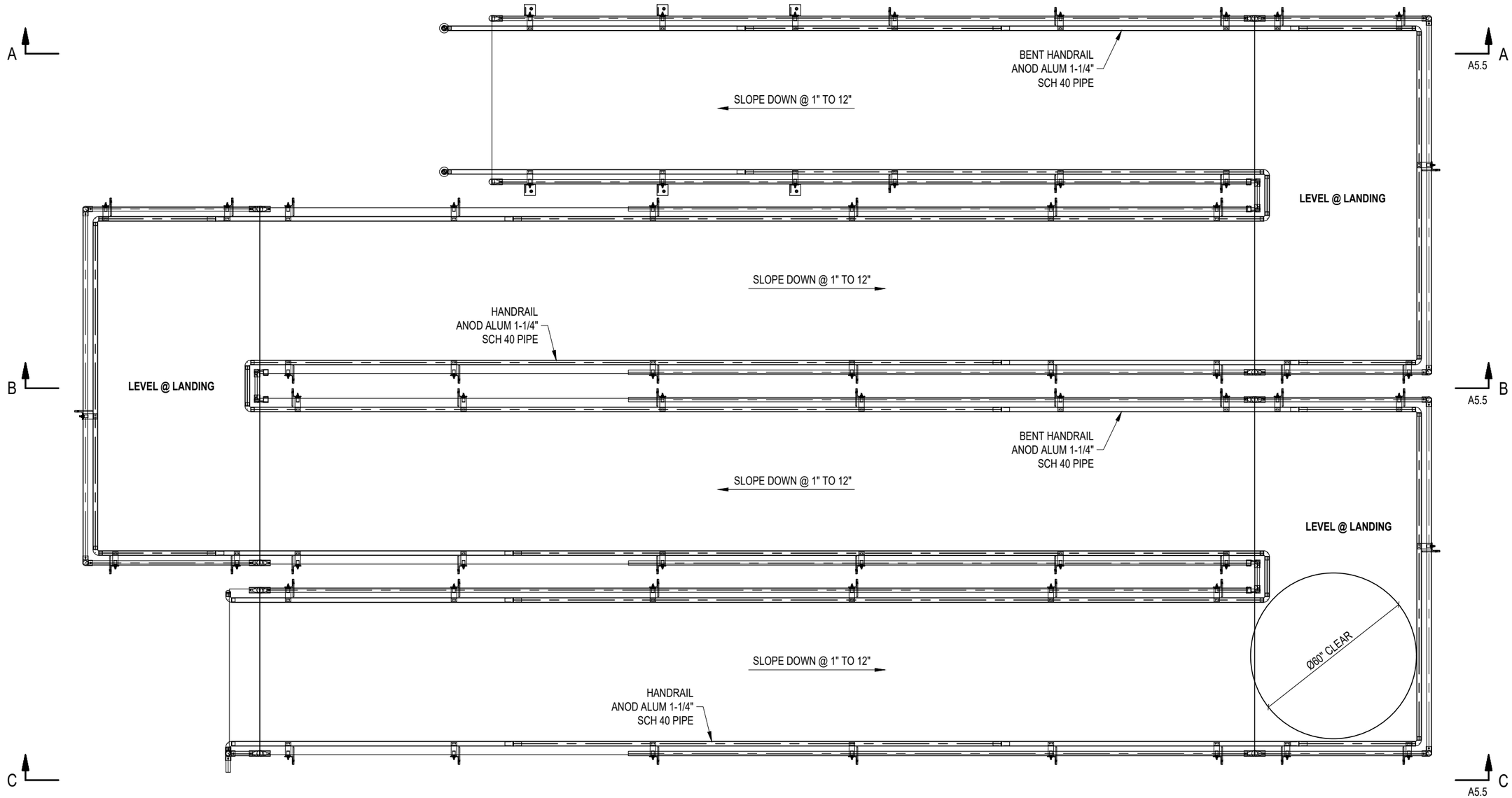
CERTIFIED FABRICATOR
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TITLE: RAMP ELEVATIONS

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

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CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A5.3 Rev.: A



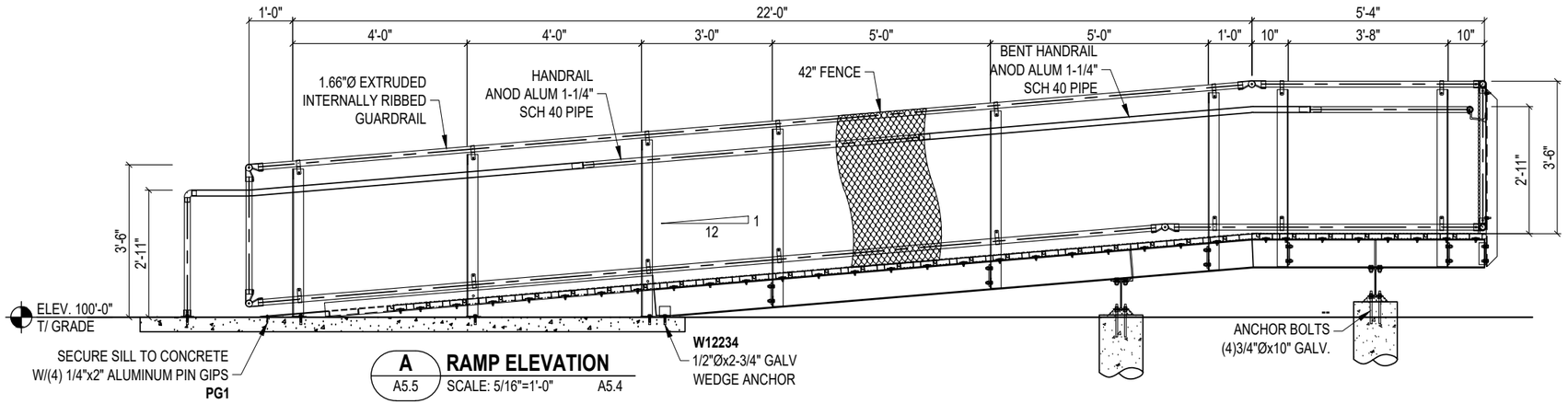
2 A5.4 **RAMP HANDRAIL PLAN**
SCALE: 5/16"=1'-0" A1.2

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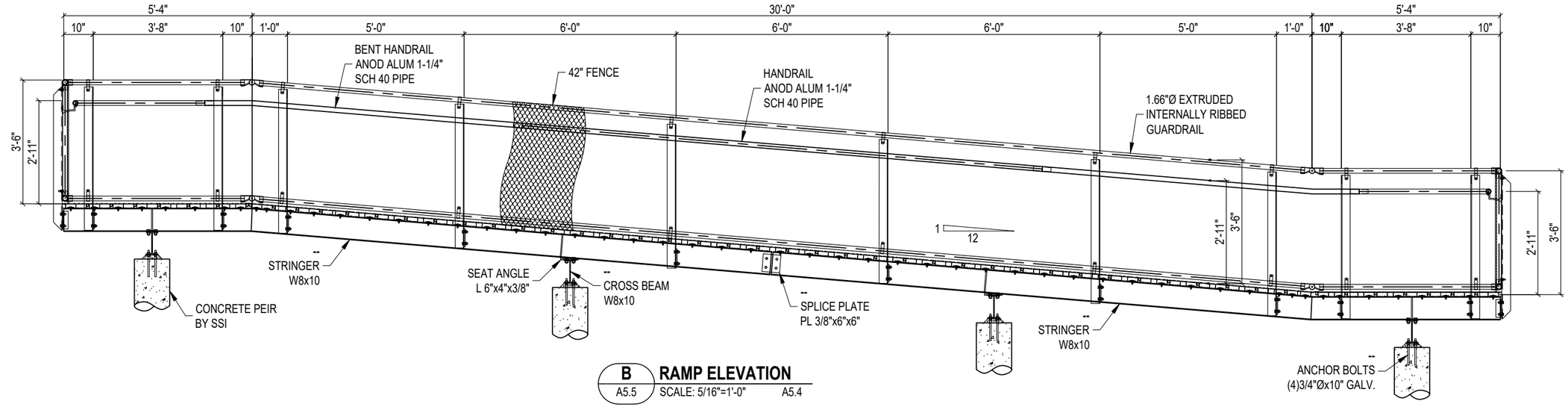
TITLE: RAMP ELEVATIONS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

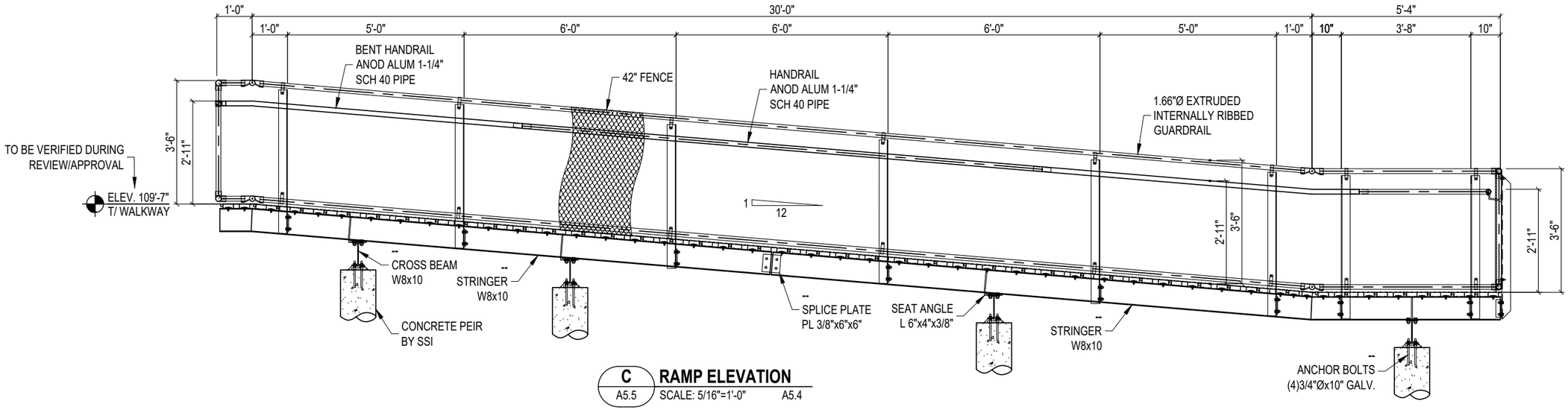
DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A5.4 Rev.: A



A A5.5 **RAMP ELEVATION** SCALE: 5/16"=1'-0" A5.4



B A5.5 **RAMP ELEVATION** SCALE: 5/16"=1'-0" A5.4



C A5.5 **RAMP ELEVATION** SCALE: 5/16"=1'-0" A5.4

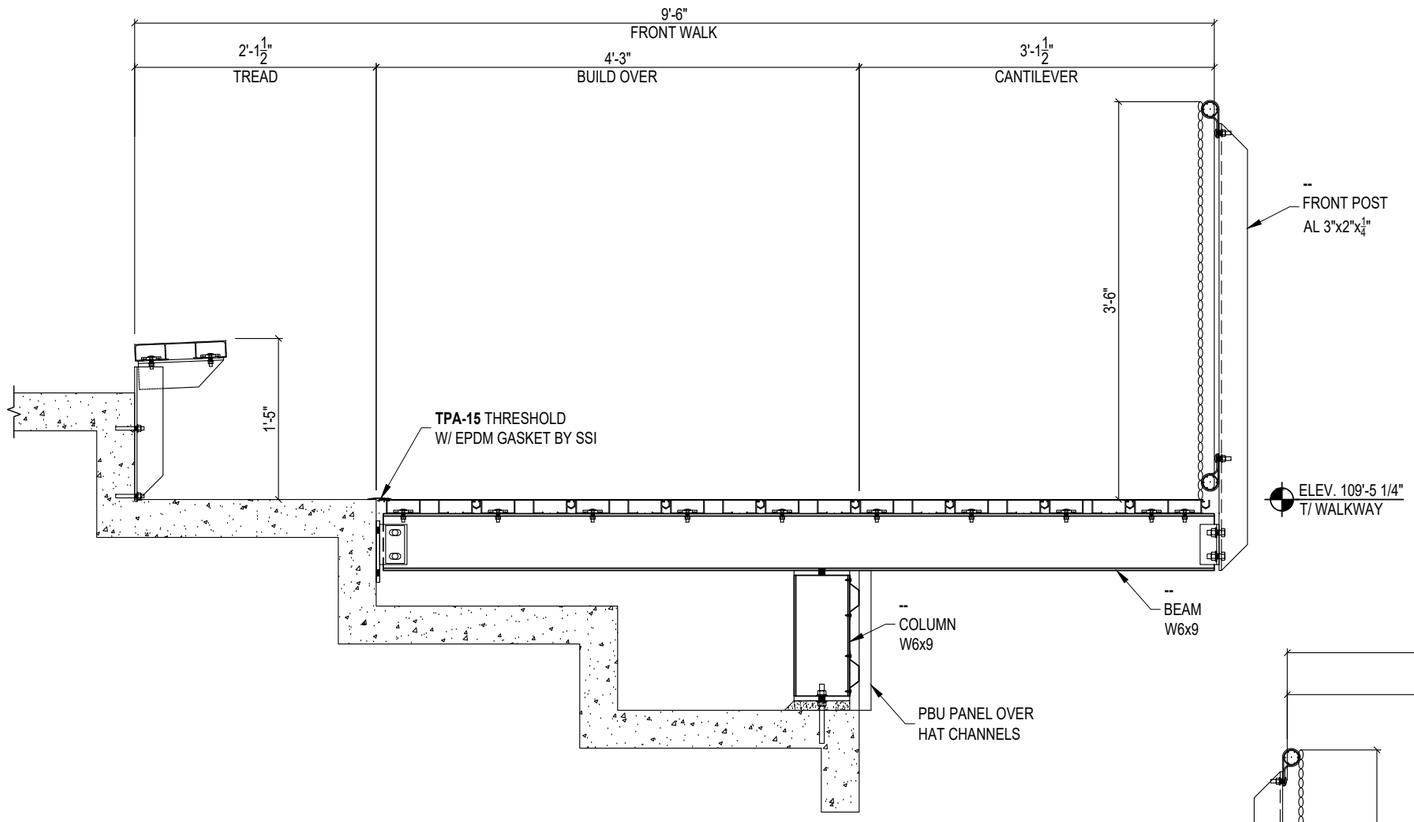
CERTIFIED FABRICATOR
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TITLE: RAMP ELEVATIONS

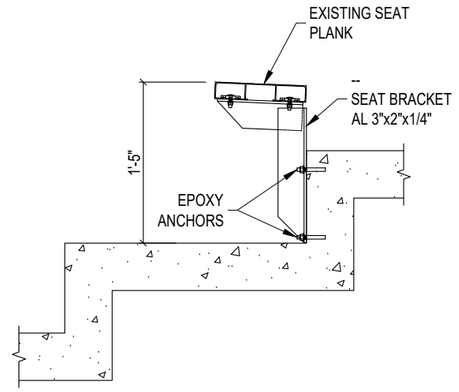
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DESCRIPTION	DATE

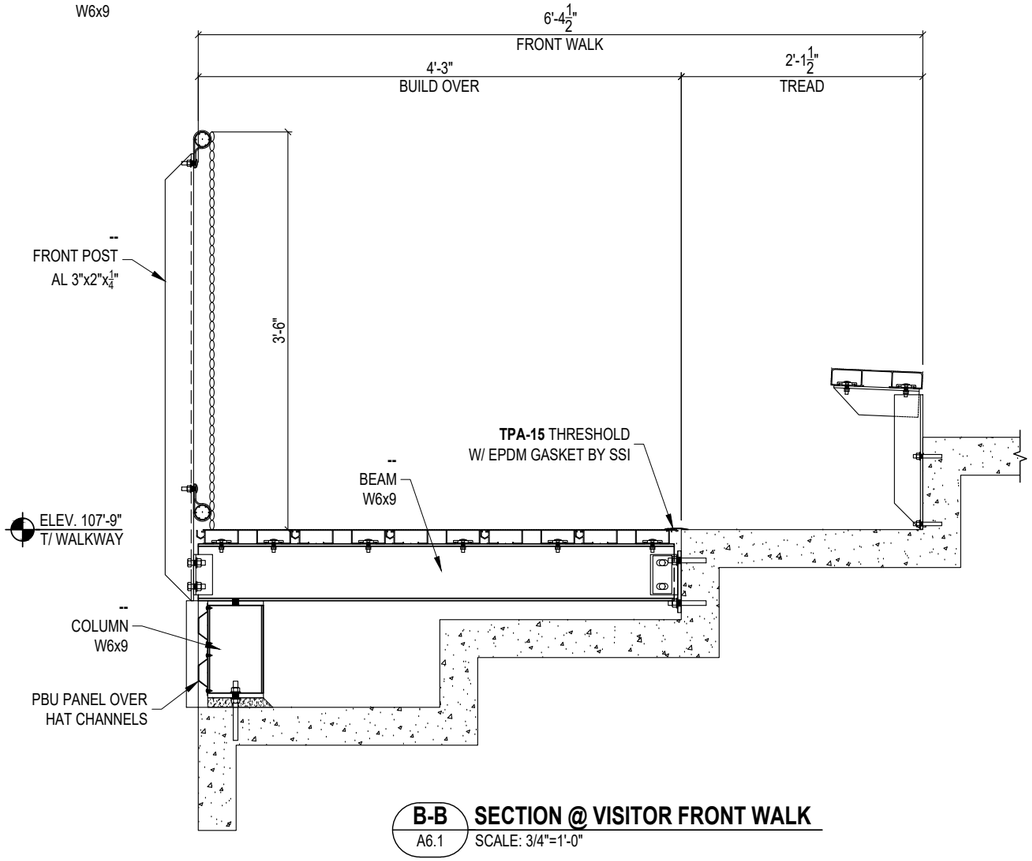
DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A5.5 Rev.: A



A-A A6.1 **SECTION @ HOME FRONT WALK**
SCALE: 3/4"=1'-0"



C-C A6.1 **SECTION @ SEAT BRACKET**
SCALE: 3/4"=1'-0" A4.1



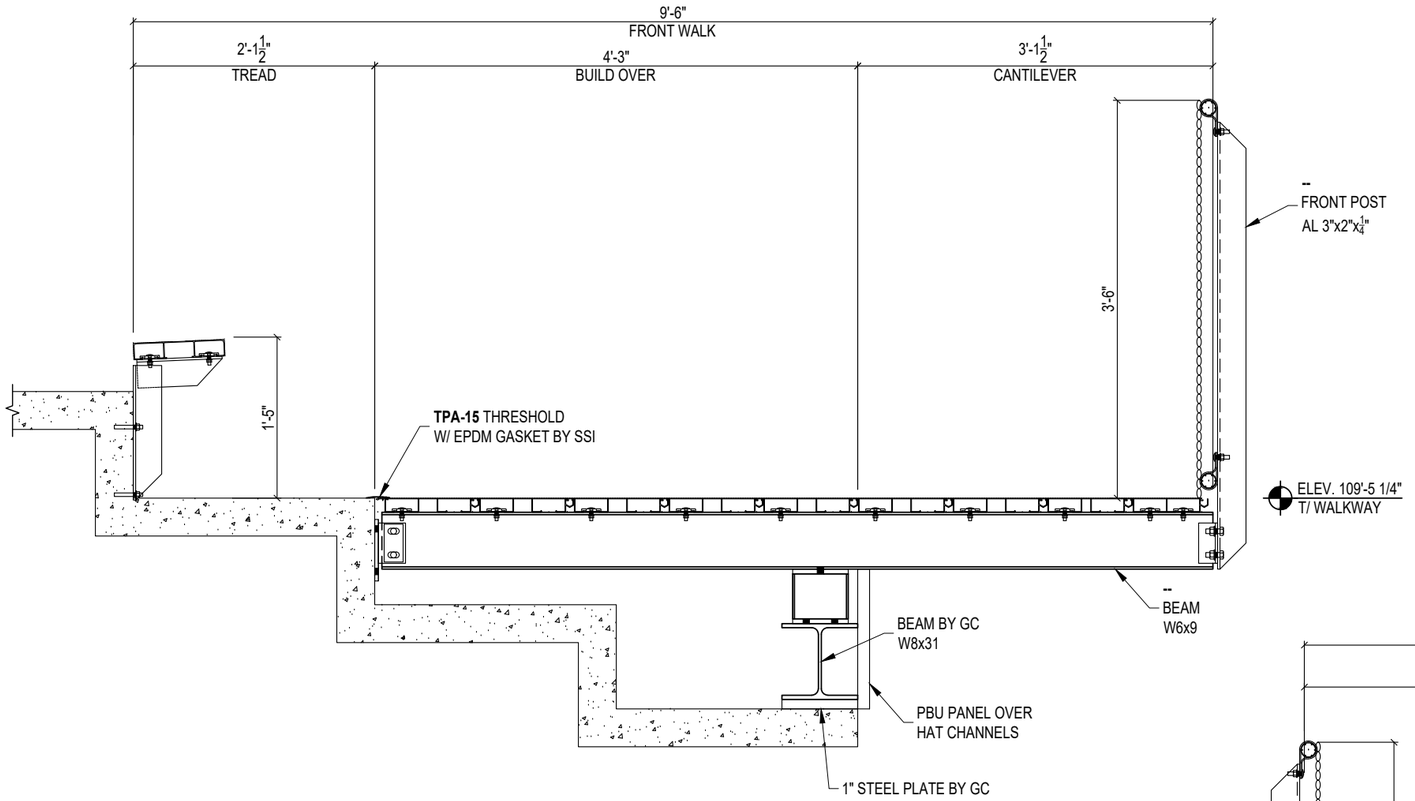
B-B A6.1 **SECTION @ VISITOR FRONT WALK**
SCALE: 3/4"=1'-0"

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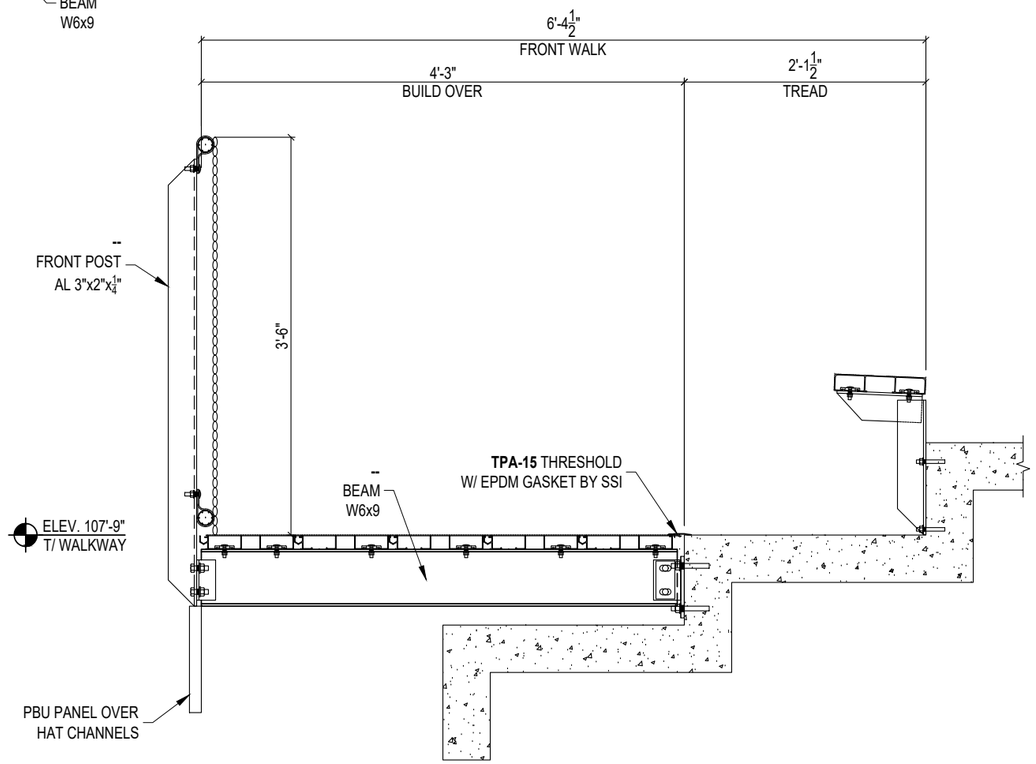
TITLE: PLANK CONFIGURATIONS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A6.1 Rev.: A



C-C A6.2 **SECTION @ DOOR OPENINGS**
SCALE: 3/4"=1'-0"



D-D A6.2 **SECTION @ VOMITORY OPENINGS**
SCALE: 3/4"=1'-0"

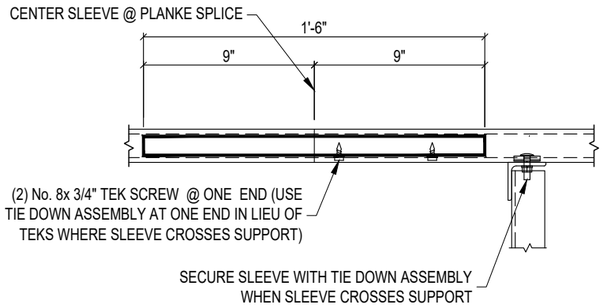
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TITLE: FRONT WALKWAY SECTIONS

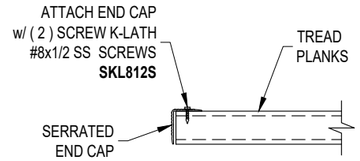
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

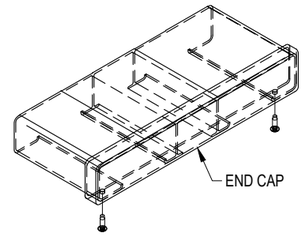
DWG BY: MJB | DATE: 0307/25
CHK'D BY: SN | DATE: --
JOB #: 3038
SHEET #: A6.2 | Rev.: A



1 A6.3 **ALUMINUM SLEEVE DETAIL**
SCALE: 1-1/2"=1'-0"

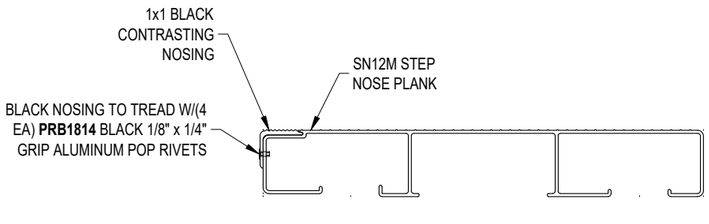


3 A6.3 **TREAD END CAP INSTALLATION DETAIL**
SCALE: 1-1/2"=1'-0"

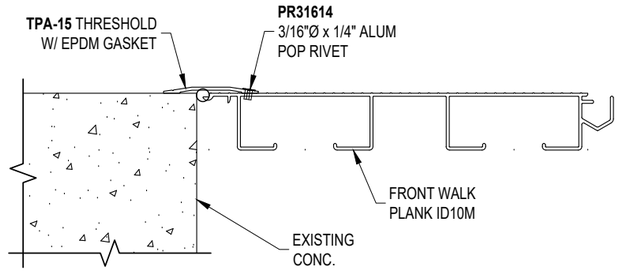


1. LOCATE THE CAPPING END CAP AS SHOWN.
2. TAP END CAP INTO PLACE WITH A RUBBER MALLET OR SOFT WOOD.
3. MECHANICALLY FASTEN SKL812S EA. #8x1/2" SELF DRILL SS SCREWS THRU BOTTOM OF END CAP THRU BOTTOM OF PLANK.

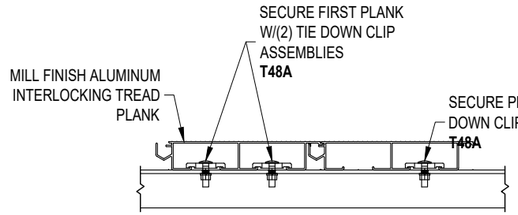
4 A6.3 **SEAT END CAP INSTALLATION DETAIL**
SCALE: 1-1/2"=1'-0"



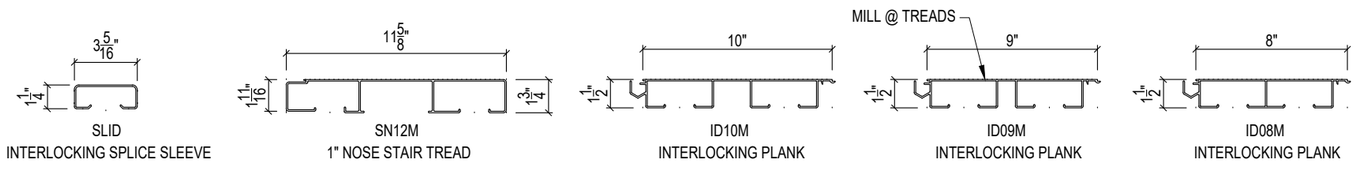
7 6.3 **NOSE INSTALLATION**
SCALE: N.T.S.



8 6.3 **THRESHOLD INSTALLATION**
SCALE: N.T.S.



9 A6.3 **PLANK INSTALLATION**
SCALE: 1/1/2"=1'-0"





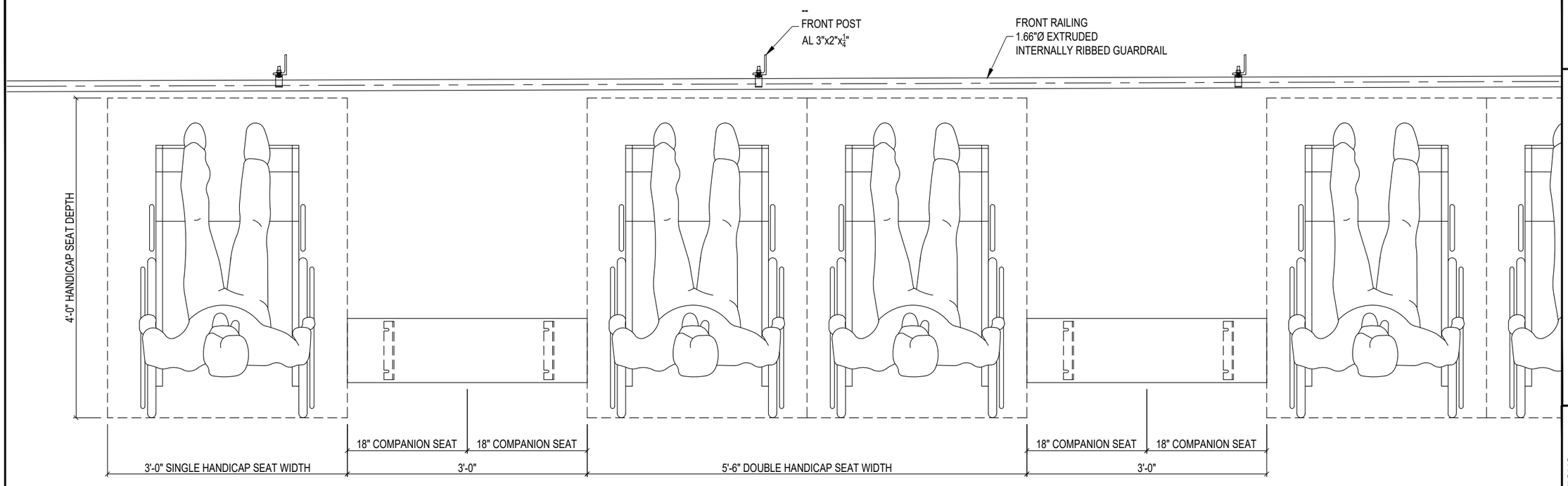
ALUMINUM LEGEND
SCALE: 1-1/2"=1'-0"

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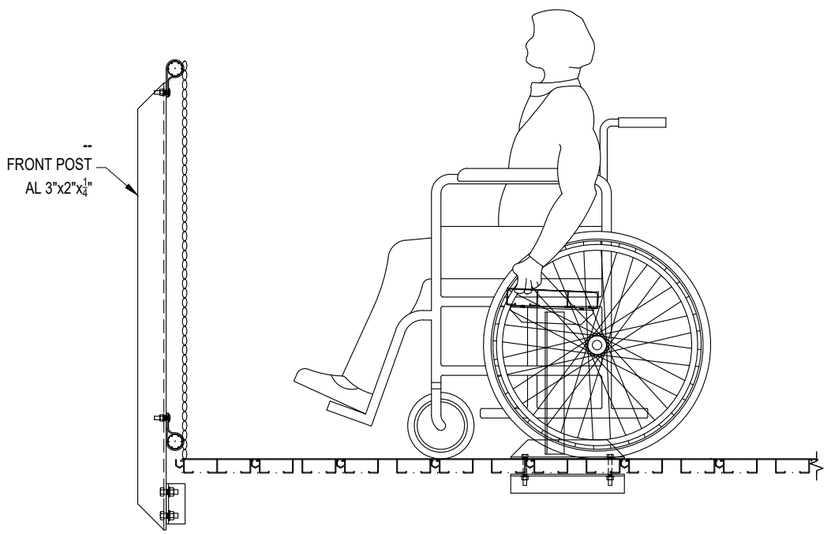
TITLE: ALUMNINUM LEGEND & DETAILS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

DESCRIPTION	DATE	BY	REV

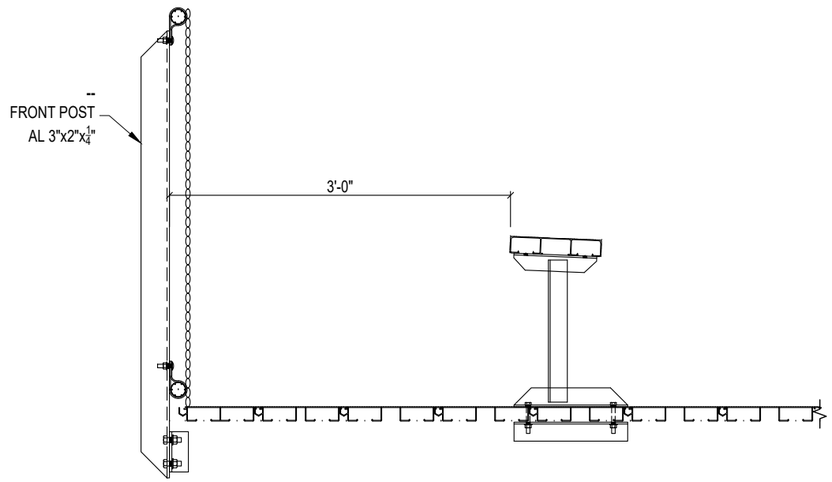
DWG BY: MJB | DATE: 0307/25
CHK'D BY: SN | DATE: --
JOB #: 3038
SHEET #: A6.3 | Rev.: A



A-A A6.4 **ENLARGED HANDICAP SEATING DETAILS**
SCALE: 3/4"=1'-0"



A-A A6.1 **SECTION @ HANDICAP SEATING**
SCALE: 3/4"=1'-0"



A-A A6.1 **SECTION @ COMPANION SEATING**
SCALE: 3/4"=1'-0"

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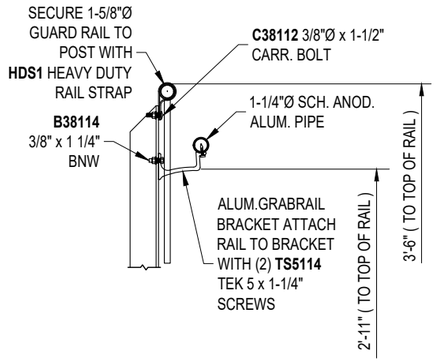
TITLE: FRONT WALKWAY SECTIONS

PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

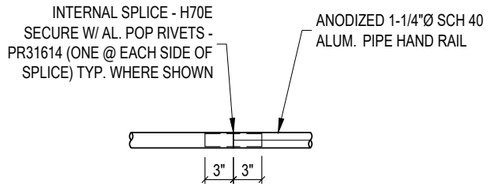
REV	BY	DATE	DESCRIPTION

DWG BY: MJB | DATE: 0307/25
CHK'D BY: SN | DATE: --
JOB #: 3038
SHEET #: A6.4 | Rev.: B

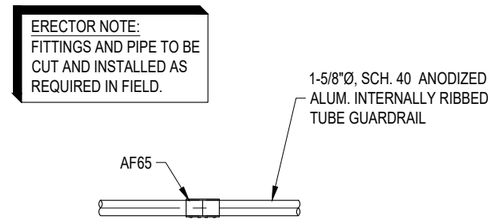
CAUTION:
PARTS "HDSI" (1" WIDE) AND "TB1" (3/8" WIDE) ARE SIMILAR - CARE SHOULD BE TAKEN TO IDENTIFY THESE PARTS CORRECTLY.



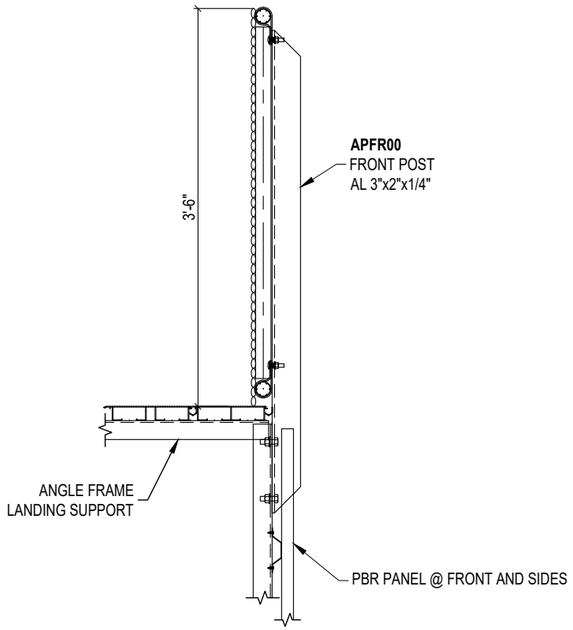
2 HAND RAIL BRACKET DETAILS
A7.1 SCALE: 3/4"=1'-0"



3 TYP HAND RAIL SPLICE DETAIL
A7.1 SCALE: 3/4"=1'-0"



4 TYP GUARD RAIL SPLICE DETAIL
A7.1 SCALE: 3/4"=1'-0"



5 PRSS BOX RAILING CONNECTION
A7.1 SCALE: 3/4"=1'-0"

FENCE & HAND RAIL KEY

DRAWING	DESCRIPTION	PART #
	HAND RAIL BRACKET	AF02
	PLANK FLANGE	AF07
	CONC FLANGE	AF08
	FLR FLG 1-1/2	AF09
	FLR FLG 1-1/2	AF10
	ELBOW	AF30
	SIDE OUT ELBOW	AF31
	TEE	AF32
	SIDE OUT TEE	AF33
	CROSS	AF34
	ADJ TEE	AF40
	2 HOLE BASE	AF46
	RAIL COUPLER	AF65
	ADJ ELBOW	AF80
	DBL ADJ TEE	AF82
	ADJ SIDE OUT ELBOW	AF85
	90° ENTERNAL ELBOW	AF92

DRAWING	DESCRIPTION	PART #
2 1/2"	2x PLANK TIE DOWN CLIP	CL-UNIV
	ASSEMBLED WITH HARDWARE	CL-UNIV_WH
	CHAIN LINK FENCE	CL942 CL942BLK
	DOME CAP	DC1
6"	HAND RAIL SLEEVE	H70E
	HVY DUTY PIPE CLAMP	HDS1
	PANEL CLAMP (2) PC158, (1) C38112 (1) FN38	PC158
	NOPEN MIDRAIL RAIL CLAMP	PTHDCLAMP
2 1/16"	INTERLOCKING DECK TIE DOWN CLIP	T48
	ASSEMBLED WITH HARDWARE	T48A
	TENSION BAND	TB1
	EXTRUDED 1.66"Ø TUBE	
	1-1/4" SCH 40 PIPE	
	1-1/2" SCH 40 PIPE	

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TITLE: FENCE, GUARDRAILS, & FITTING DETAILS
PROJECT: J.P. McCASKEY STADIUM RENOVATION
LANCASTER, PA

REV	BY	DATE	DESCRIPTION

DWG BY: MJB DATE: 0307/25
CHK'D BY: SN DATE: --
JOB #: 3038
SHEET #: A7.1 Rev.: A

DESIGN CODES

2018 INTERNATIONAL BUILDING CODE (CHAPTERS 1 EXCLUDED AND 30 PROVISIONS ADOPTED)
2017 NEC NFPA 70 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL MECHANICAL CODE
2009 ICC/ANSI A117.1 ACCESSIBILE & USABLE BUILDING & FACILITIES CODE
2012 NFPA 101 LIFE SAFETY CODE
CHAPTER 145. INDUSTRIAL HOUSING AND COMPONENTS

DESIGN SPECIFICATIONS

SNOW LOAD:	Pg=35 PSF; 30 PSF FLAT ROOF
ROOF LIVE LOAD:	50 PSF
FLOOR LIVE LOAD:	100 PSF
OCCUPANCY GROUP:	A-5
CONSTRUCTION TYPE:	V-B
ACTUAL OCCUPANCY NOT TO EXCEED:	24 PERSONS
HORIZONTAL WIND:	CATEGORY II Vult=113, Vasd=88 MPH, EXPOSURE C @ 30'-0" FT MEAN ROOF HEIGHT
SEISMIC ZONE:	CLASS D, CATEGORY B

GENERAL/STRUCTURAL

INTERIOR PARTITIONS TO BE CONSTRUCTED TO WITHSTAND A 5 PSF HORIZONTAL FORCE
INTERIOR WALL BOARD SHALL BE 5/8" NOMINAL THICKNESS OR CONFORM TO SEC. 804.3 (TESTED W/ MATERIALS SUSPENDED FROM NON-COMBUSTABLE BACKING)
EXTERIOR BRACING PROVIDED BY 1/2" CDX W/ EXTERIOR GLUE
APPROVED DATA PLATE AND THIRD PARTY LABEL TO BE LOCATED ON MAIN ENTRANCE PANEL
ON SITE STRUCTURE TO MEET THE FOUNDATION LOADING REQUIREMENTS SHOWN ON SHEET 2
ATTIC VENTILATION SHALL NOT BE LESS THAN 1/150 OF THE HORIZONTAL AREA TO BE VENTILATED.
THE BUILDING EXTERIOR AND ALL FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
BUILDER/DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS. BUILDING APPROACH SHALL HAVE A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT MORE THAN A FOOT IN 20 FOOT.
ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
CORROSION RESISTANT FLASHING AT TOP AND SIDES OF DOORS, WINDOWS, AND AT ROOF PENETRATIONS.
ALL GLAZING WITHIN A 24" ARC OF VERTICAL DOOR EDGES IN THE CLOSED POSITION TO BE SAFETY GLAZED AND MARKED SO.
INTERIOR FINISH SHALL BE CLASS A OR BETTER
THE MINIMUM SEPARATION OF THE UNIT FROM ANY PROPERTY LINE OR ASSUMED PROPERTY LINE IS 20 FT.

ELECTRICAL

ALL WIRING TO BE ENCASED IN THIN ALL EMT CONDUIT OR MC CABLE MIN. 12THHN COPPER WIRE
ALL RECEPTACLES TO BE GROUNDING TYPE.
MAIN PANEL TO BE MARKED SUITABLE FOR USE AS SERVICE EQUIPMENT, AND BE EQUIPPED WITH BREAKER/FUSE TYPE OVER CURRENT PROTECTION.
PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
DISCONNECTING MEANS WITHIN SITE REQUIRED FOR ALL MOTORS.
WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS, RECEPTACLES AND DISCONNECTS.
PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED AROUND ALL ELECTRICAL EQUIPMENT.
EXIT LIGHTS (IF ELECTRIC) MUST BE FED FROM AN APPROVED EMERGENCY SERVICE CONNECTED AHEAD OF, BUT NOT WITHIN MAIN SERVICE DISCONNECTING MEANS ENCLOSURE, AND INSTALLED AS PER SERVICE REQUIREMENTS, OR BE BATTERY BACK UP TYPE UNITS
SERVICE CONDUCTORS LOCATED WITHIN THE PERIMETER OF THE BUILDING SHALL BE INSTALLED PER 2017 INTERNATIONAL ELECTRICAL CODE
ELECTRICAL WIRING TO BE INSTALLED PER 2017 INTERNATIONAL ELECTRICAL CODE
ALL DATA/TELECOMMUNICATION CONDUCTORS TO BE INSTALLED & TERMINATED ON SITE BY OTHERS

NOTE:

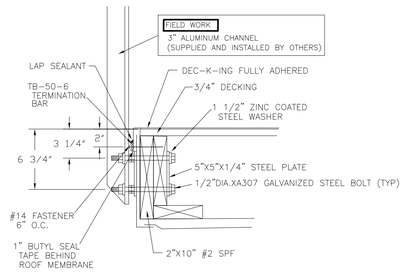
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MOBILE FACILITY ENGINEERING, INC. IS NOT RESPONSIBLE FOR STATE OR LOCAL PERMITS OR OCCUPANCY REQUIREMENTS

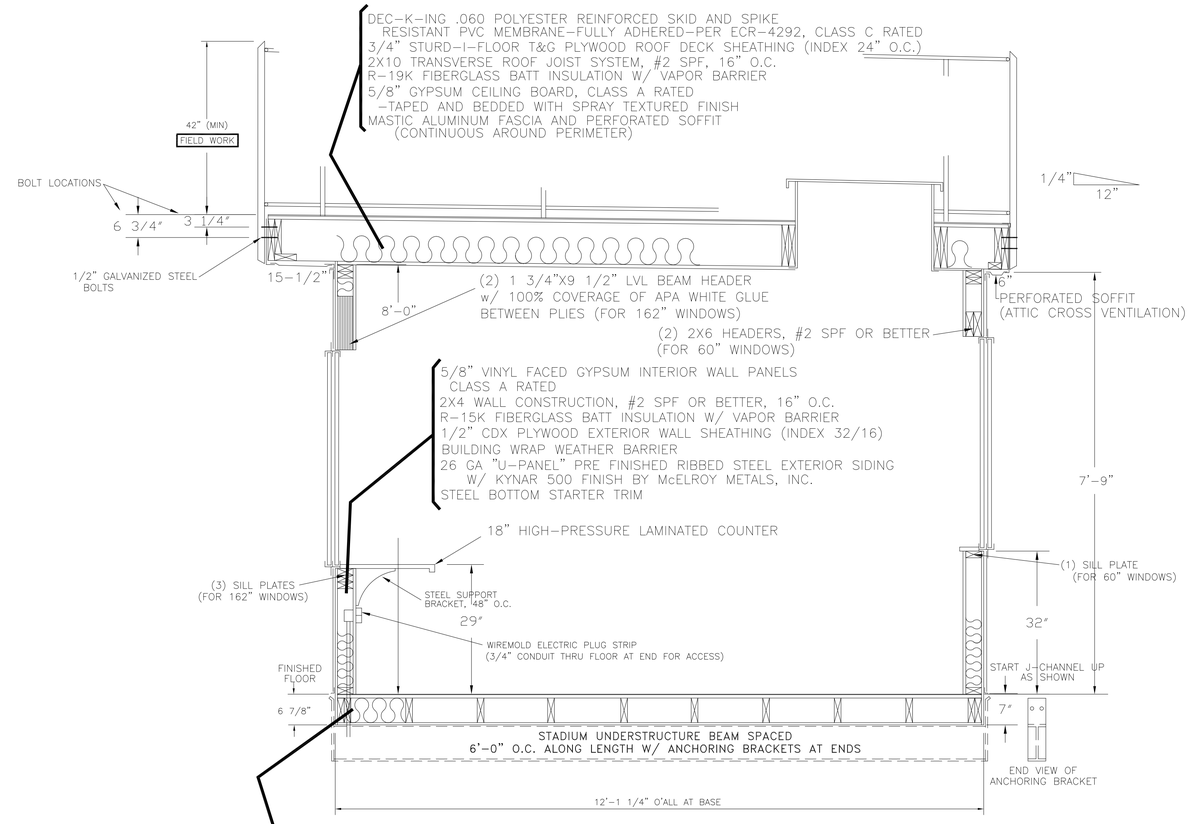
ALL RAILINGS ARE DESIGNED, SUPPLIED AND INSTALLED BY OTHERS

THIS BUILDING SHALL NOT BE USED FOR THE GENERAL PUBLIC OR SPECTATOR VIEWING

BUILDING ELEMENT	FASTENER	NUMBER AND LOCATION
STUD TO SOLE/CAP PLATE	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	(4) DIRECT
JAMB/JACK STUDS TO SOLE/CAP PLATE	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	(4) DIRECT
CORNER STUDS	#8X3" SCREW	12" O.C. TOE SCREW
SOLE PLATE TO JOIST OR BLOCKING	16d COMMON	16" O.C.
DOUBLE CAP PLATE	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	(2) 9" O.C. DIRECT
TRUSS OR RAFTER TO SIDEWALL TOP PLATES	(2) #8x4" SCREW	TOED EACH RAFTER
-OR-	(1) SIMPSON STRONG DRIVE TRUSS SCREW #SDWC 15x6" OR EQUAL	FACE SCREWED THROUGH DOUBLE TOP PLATES EACH RAFTER
-OR-	(1) EA RAFTER END #RT7 18 GA UPLIFT CLIP	FASTENED W/ 10 (.148) X 1 1/2" POWER DRIVEN NAILS (5) IN TOP HALF AND (5) IN BOTTOM HALF
TRUSS OR RAFTER TO ENDWALL TOP PLATES	(1) #8x4" TOE-SCREW	6" O.C. ALTERNATING SIDES
-OR-	(1) SIMPSON STRONG DRIVE TRUSS SCREW #SDWC 15x6" OR EQUAL	16" O.C. FACE SCREWED THROUGH DOUBLE TOP PLATES
TRUSS OR CEILING JOISTS TO EDGE RAIL	16d COMMON	MIN. (4) DIRECT
FLOOR JOISTS TO EDGE RAIL	(1) EA. #JL26 FLOOR JOIST HANGER OR EQUAL	FASTENED PER HANGER MANUFACTURER'S INSTRUCTIONS
DOUBLE EDGE RAIL	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	(3) 12" O.C. DIRECT
JACK STUD/CRIPPLE TO JAMB STUD	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	MIN (23) DIRECT
-OR-	(2) SIMPSON CS18 STRAP w/10d NAILS	(6) NAILS EACH END OF STRAP (HEADER TO JACK)
HEADERS TO TRIMMERS (JAMB STUDS)	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	(10) END STAPLE OR (16) TOE STAPLE [TOTAL EACH END]
SILL TO TRIMMERS (JAMB STUDS)	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	(4) PER SILL MEMBER
PLYWOOD WALL SHEATHING (1/2" OR LESS)	16GA x 7/16 CROWN x 1½" LONG GALVANIZED STAPLE	4" O.C. DIRECT EDGES & 8" O.C. INTERMEDIATE SUPPORTS
-OR-	6d (.113) X 2" LONG RING SHANK NAIL	6" O.C. DIRECT EDGES & 12" O.C. INTERMEDIATE SUPPORTS
PLYWOOD ROOF SHEATHING (5/8" OR GREATER)	15GA x 7/16 CROWN x 2½" LONG GALVANIZED STAPLE	4" O.C. DIRECT EDGES & 8" O.C. INTERMEDIATE SUPPORTS
-OR-	6d (.113) X 2" LONG RING SHANK NAIL	4" O.C. DIRECT EDGES & 8" O.C. INTERMEDIATE SUPPORTS
PLYWOOD SUBFLOORING (5/8" OR ¾")	15GA x 7/16 CROWN x 2 1/2" LONG GALVANIZED STAPLE	4" O.C. DIRECT EDGES & 8" O.C. INTERMEDIATE SUPPORTS
-OR-	6d (.113) X 2 1/2" LONG RING SHANK NAIL	6" O.C. DIRECT EDGES & 12" O.C. INTERMEDIATE SUPPORTS
STEEL SIDING	(1) #10 X 1 1/2" WOOD GRIP SCREW	EDGE FASTENERS: (1) EVERY VALLEY, (6) PER PANEL; INTERMEDIATE FASTENERS: (1) EVERY OTHER VALLEY, (3) PER PANEL; ROWS: SPACED (32" O.C.)
STEEL SIDING (SIDE LAP)	1/4" X 7/8" STITCH TEK SCREW	24" O.C. ON RIBS



EDGE TERMINATION DETAIL



CROSS SECTION

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

INDEX

SHEET NO.	DESCRIPTION
1 OF 3	• NOTES, CROSS SECTION
2 OF 3	• FLOOR, ELECTRICAL PLAN
3 OF 3	• ELEVATIONS

• SHEETS/DRAWINGS THAT REQUIRE FIELD WORK

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JUSTON FLUCKEY
ENGINEER
PE085752
4/1/25

FINISH SCHEDULE	
INTERIOR	COLOR
WALL PANELS:	----
SPRAY TEXTURED CEILING:	WHITE
COUNTER:	----
FLOOR MOLDING:	----
FLOOR TILE:	----
EXTERIOR	
ROOF MEMBRANE:	BALTIC GRAY
SIDING:	----
BOTTOM STARTER TRIM:	----
FASCIA:	----
SOFFIT:	----
WINDOWS:	----
DOORS:	----
DOOR FRAMES:	----

STADIUM SOLUTIONS, INC.
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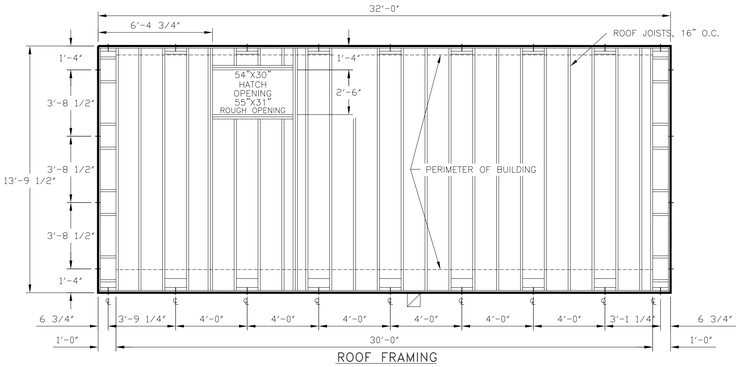
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DATE:	9/10/24		
SCALE:	1/4"=1'		
DWG. NO:	MF096-24		

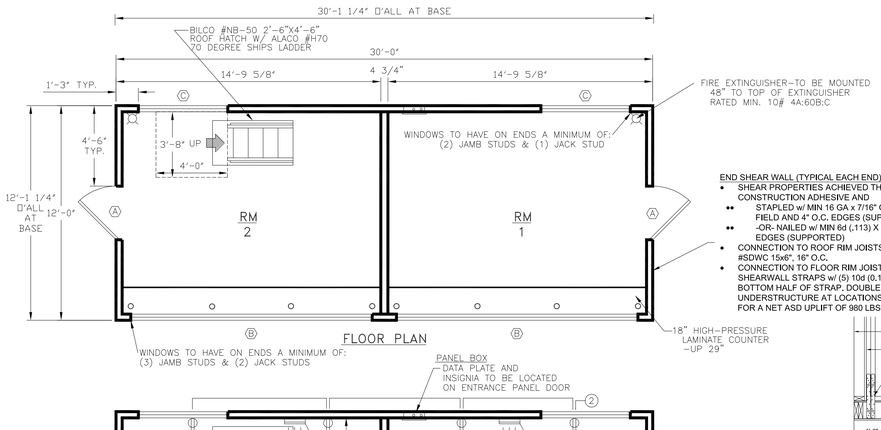
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CUSTOMER: JP McCASKEY STADIUM
ADDRESS: LANCASTER, PA
ATTN:
PROJECT: 1230 PRESSBOX
TITLE: NOTES, CROSS SECTION
SHT #1

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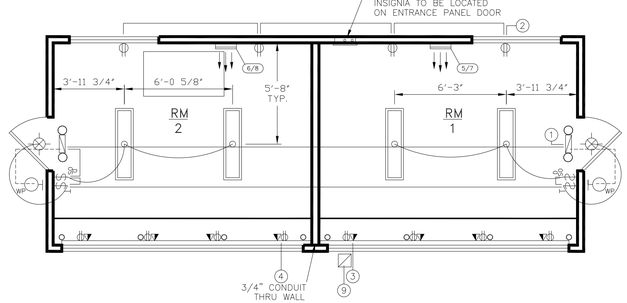


ROOF FRAMING

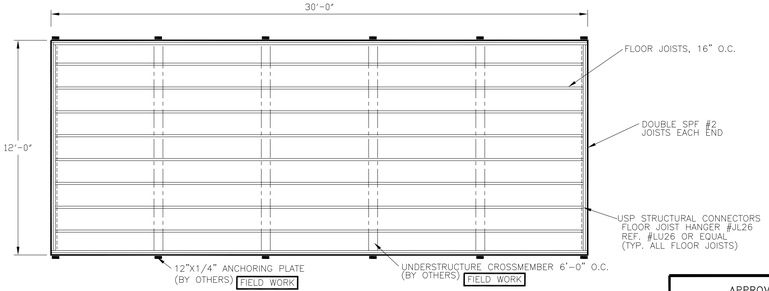


FLOOR PLAN

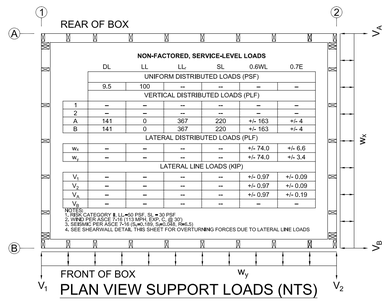
END SHEAR WALL (TYPICAL EACH END)
- SHEAR PROPERTIES ACHIEVED THRU 1/2" CDX PLYWOOD WALL SHEATHING GLUED W/ CONSTRUCTION ADHESIVE AND
  - •• STAPLED w/ MIN 16 GA x 7/16" CROWN STAPLES w/ MIN 1" PENETRATION, 8" O.C. FIELD AND 4" O.C. EDGES (SUPPORTED),
  - •• -OR- NAILED w/ MIN 6d (.113) X 2" LONG RING SHANK NAIL, 12" O.C. FIELD AND 6" O.C. EDGES (SUPPORTED)
- CONNECTION TO ROOF RIM JOISTS VIA (1) SIMPSON STRONG DRIVE TRUSS SCREWS #SDWC 15x6", 16" O.C.
- CONNECTION TO FLOOR RIM JOISTS (SEE DETAILS THIS SHEET) VIA #MSTA15 SHEARWALL STRAPS w/ (5) 10d (0.148) x 1 1/2" POWER DRIVEN RAPID NAILS IN TOP AND BOTTOM HALF OF STRAP. DOUBLE SPF #2 END FLOOR JOIST SHALL BE ANCHORED TO UNDERSTRUCTURE AT LOCATIONS SHOWN IN DETAIL BELOW; DESIGNED BY OTHERS FOR A NET ASD UPLIFT OF 980 LBS.



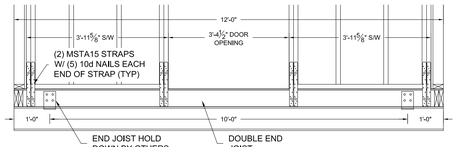
ELECTRICAL PLAN



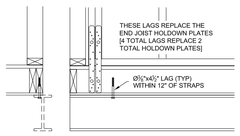
FLOOR FRAMING/UNDERSTRUCTURE



PLAN VIEW SUPPORT LOADS (NTS)



ENDWALL SHEARWALL STRAPPING DETAIL



ALTERNATIVE ANCHORAGE

NOTE: THE ANCHORAGE SHOWN ARE VIABLE OPTIONS. MFE DOES NOT CONTROL THE UNDERSTRUCTURE DESIGN, SO ACTUAL ANCHORING IS UNKNOWN. IF THE ABOVE ANCHORING OPTIONS CAN NOT BE ACHIEVED, THEN ALTERNATIVE ANCHORAGE MAY BE DETERMINED BY A REGISTERED DESIGN PROFESSIONAL HIRED BY THE OWNER.

DOOR/WINDOW SCHEDULE

SYMBOL	DISCRIPTION
Ⓐ	36"X80" "SPECIAL-LITE SERIES SL17" FRP (FIBERGLASS REINFORCED PLASTIC) DOOR W/ ALUMINUM FRAMES, HYDRAULIC CLOSER, WEATHERSTRIP, 10" LITE, ALUMINUM THRESHOLD AND COMMERCIAL LEVER HANDLED LOCKSET (40 1/2" X 82 1/2" ROUGH OPENING) (ADA THRESHOLD) U-VALUE=.31
Ⓑ	162"X48" LINDSAY #830 "PINNACLE SERIES" VINYL DOUBLE HORIZONTAL SLIDER WINDOW W/ 3/4" INSULATED, 366 LOW-E-NEAT W/ EPS, ARGON FILLED TEMPERED SAFETY GLASS AND SCREENS (162" X 48 1/4" ROUGH OPENING) U-VALUE=.26 SHGC=.19
Ⓓ	60"X48" LINDSAY #830 "PINNACLE SERIES" VINYL DOUBLE HORIZONTAL SLIDER WINDOW W/ 3/4" INSULATED, 366 LOW-E-NEAT W/ EPS, ARGON FILLED TEMPERED SAFETY GLASS AND SCREENS (60" X 48 1/4" ROUGH OPENING) U-VALUE=.26 SHGC=.19

ELECTRICAL LEGEND

SYMBOL	DISCRIPTION
	SATCO #62-1775 47W/LED/1X4/FLUSH/3K/WH 47 WATT, 3500K LED, 1'X4' SURFACE MOUNTED LIGHT (ELECTRICAL BOX IN CENTER)
	LITHONIA #ECRG-HO-RD-M6 EMERGENCY COMBINATION EXIT/FLOOD LIGHT W/ MIN. 90 MINUTE BATTERY BACK-UP (WALL MOUNT)
WP	LITHONIA #ERE-SGL-WP REMOTE EMERGENCY LIGHT HEAD (GRAY)
	SATCO #S39013 4" (7 WATT) 4000K LED W/P CAN LIGHT FIXTURE
T	INTERMATIC #EI500 PROGRAMMABLE ASTRONOMICAL TIMER SWITCH (LIGHT ALMOND)
$ QS	LUTRON #MSCL-OP153M-LA, (1) POLE, 120V, HIGH VOLTAGE, DIMMABLE OCCUPANCY SENSOR SWITCH W/ MANUAL OVERRIDE-WALL MOUNTED (LIGHT ALMOND)
	PASS & SEYMOUR #3232-LA SPEC. GRADE, GROUNDING TYPE, RECEPT (LIGHT ALMOND) -GFI WERE NOTED -UP 18" UNLESS NOTED
	ELECTRICAL DISTRIBUTION LOAD CENTER W/ MAIN DISCONNECT-120/240V., SINGLE PHASE, 100 AMP CAPACITY, SQ. 'D' #QO124M100-UP 48" TO CENTER W/ (1) 1 1/2" CONDUIT THRU FLOOR W/ (1) 3/4" CONDUIT THRU FLOOR
dbl tlb	#5400 SERIES CONTINUOUS ELECTRIC WIREMOLD (IVORY) W/ RECEPTS AND COMMUNICATION JACK COVERS 48" O.C. W/ 3/4" CONDUIT THRU FLOOR AT EACH END OF PRESSBOX FOR ACCESS-UP 14"
	2 1/2" GROMMETED HOLE THRU COUNTER
	ROOF ELECTRICAL ACCESS- 2"X4" WATERPROOF FASCIA MOUNTED JUNCTION BOX (PRE-WIRED) (WEATHER-RESISANT RECEPTACLES IN WEATHERPROOF ENCLOSURES TO BE INSTALLED ON GUARD RAILS BY EC)
	TPI #HF3316TRP ELECTRIC FORCED AIR HEATER, 4,000 WATT, 13,648 BTU MAX. CAPACITY

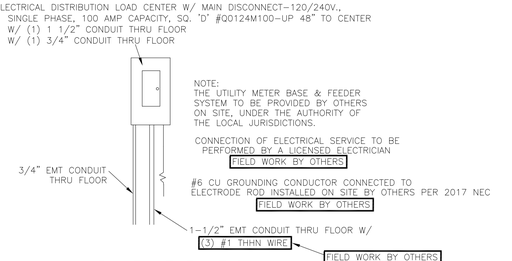
NOTE: ALL NUMBERS ON ELECTRICAL CIRCUITS DESIGNATE FEED SIDE OF CIRCUIT
ALL BRANCH CIRCUIT WIRING TO BE ENCASED IN EMT CONDUIT OR MC CABLE-MIN 12 GA. THHN WIRE

ELECTRICAL DISTRIBUTION LOAD CENTER W/ MAIN DISCONNECT-120/240V., SINGLE PHASE, 100 AMP CAPACITY, SQ. 'D' #QO124M100-UP 48" TO CENTER W/ (1) 1 1/2" CONDUIT THRU FLOOR W/ (1) 3/4" CONDUIT THRU FLOOR

BRANCH LOAD	CIRCUIT BREAKER SIZE	POLE	WIRE	WATTS	CIRCUIT NO.	CIRCUIT NO.	WATTS	CIRCUIT BREAKER WIRE	POLE	SIZE	BRANCH LOAD
LIGHTING RMS 1 & 2	20	1	12 THHN	188	1	2	720	12 THHN	1	20	RECEPT REAR WALL RMS 1 & 2
WIREMOLD RM 1	20	1	12 THHN	720	3	4	720	12 THHN	1	20	WIREMOLD RM 2
WALL HEATER RM 1	20	2	12 THHN	4000	5	6	4000	12 THHN	2	20	WALL HEATER RM 2
					7	8					
ROOF CIRCUIT	20	1	12 THHN	360	9	10					
					11	12					SPARE
					13	14					SPARE
SPARE					15	16					SPARE
SPARE					17	18					SPARE
SPARE					19	20					SPARE
SPARE					21	22					SPARE
SPARE					23	24					SPARE
				5268			5440				

TOTAL CONNECTED LOAD (WATTS) 10,708

TOTAL CONNECTED LOAD = 10,708 (WATTS)
CALCULATED LOAD = (SQ FOOTAGE) 360 x 3.5 x 1.25 = 1,575
TOTAL LOAD = TOTAL CONNECTED LOAD (10,708) - CALCULATED LIGHTING LOAD ONLY (188) = 10,520 + CALCULATED LOAD (1,575) = 12,095 DIVIDED BY 240 = 50 TOTAL AMPS



PANEL ELEVATION

FINISH SCHEDULE

INTERIOR	COLOR
WALL PANELS:	----
SPRAY TEXTURED CEILING:	WHITE
COUNTER:	----
FLOOR MOLDING:	----
FLOOR TILE:	----
EXTERIOR	
ROOF MEMBRANE:	BALTIC GRAY
SIDING:	----
BOTTOM STARTER TRIM:	----
FASCIA:	----
SOFFIT:	----
WINDOWS:	----
DOORS:	----
DOOR FRAMES:	----

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REGISTERED PROFESSIONAL
JUSTON FLUCKEY
ENGINEER
PE086752
4/1/25

STADIUM SOLUTIONS, INC.
CABOT, PA

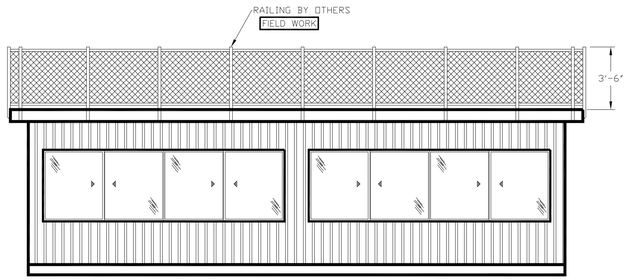
APPROVED FOR PRODUCTION
_____ DATE _____
Return approved drawing as soon as possible, so that production can be scheduled.
NOTE:
Manufacturer not responsible for local permits and occupancy requirements.

DWN. BY: GJK	REVISION	DATE
CHK. BY:		
DATE: 9/10/24		
SCALE: 1/4"=1'		
DWG. NO: MF096-24		

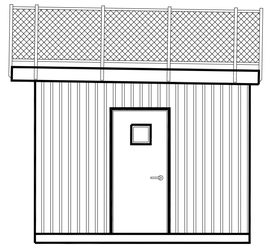
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CUSTOMER: JP McCASKEY STADIUM
ADDRESS: LANCASTER, PA
ATTN:
PROJECT: 1230 PRESSBOX
TITLE: FLOOR, ELECTRICAL PLAN
SHT #2

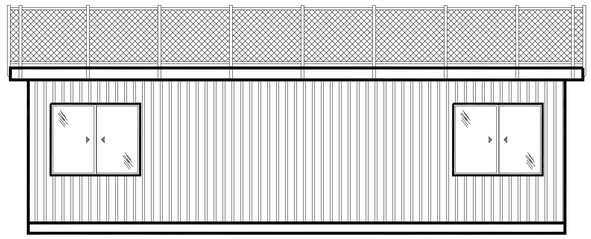
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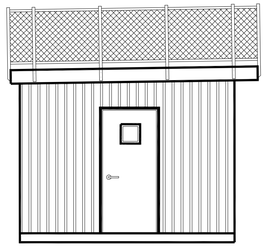
FRONT ELEVATION



END ELEVATION



REAR ELEVATION



END ELEVATION

FINISH SCHEDULE	
INTERIOR	COLOR
WALL PANELS:	----
SPRAY TEXTURED CEILING:	WHITE
COUNTER:	----
FLOOR MOLDING:	----
FLOOR TILE:	----
EXTERIOR	
ROOF MEMBRANE:	BALTIC GRAY
SIDING:	----
BOTTOM STARTER TRIM:	----
FASCIA:	----
SOFFIT:	----
WINDOWS:	----
DOORS:	----
DOOR FRAMES:	----

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JUSTON FLUCKEY
ENGINEER
PE085752
4/1/25

STADIUM SOLUTIONS, INC.
CABOT, PA

APPROVED FOR PRODUCTION
_____ DATE _____
Return approved drawing as soon as possible, so that production can be scheduled.

NOTE:
Manufacturer not responsible for local permits and occupancy requirements.

DWN. BY: GJK	REVISION	DATE
CHK. BY:		
DATE: 9/10/24		
SCALE: 1/4"=1'		
DWG. NO: MF096-24		

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CUSTOMER: JP McCASKEY STADIUM
ADDRESS: LANCASTER, PA
ATTN:
PROJECT: 1230 PRESSBOX
TITLE: ELEVATIONS
SHT #3

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GENERAL STRUCTURAL NOTES

GENERAL STRUCTURAL NOTES:

1. The structural drawings shall be used in conjunction with the drawings of all other disciplines and the specifications. The contractor shall verify the requirements of other trades as to sleeves, chases, hangers, inserts, anchors, holes and other items to be placed or set in the structural work.

2. The contractor shall be responsible for complying with all safety precautions and regulations during the work. The engineer will not advise on nor issue direction as to safety precautions and programs.

3. The structural drawings herein represent the finished structure. The contractor shall provide all temporary shoring, guying, and bracing required to erect and hold the structure in proper alignment until all structural work and connections have been completed. The investigation, design, safety, adequacy and inspection of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the contractor.

4. The engineer shall not be responsible for the methods, techniques and sequences of procedures to perform the work. The supervision of the work is the sole responsibility of the contractor.

5. Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval by the engineer.

6. All structural systems which are to be composed of components to be field erected shall be supervised by the supplier during manufacturing, delivery, handling, storage and erection in accordance with the supplier's instructions and requirements.

7. Contractor shall provide all temporary supports required for stability and for resistance to wind and seismic forces until the structure is capable of providing this support. Contractor to refer to A.I.S.C. steel design guide #10, "Erection bracing of low-rise structural steel frames" and to the National Concrete Masonry Association technical guide #03-04C, "Bracing concrete masonry walls under construction".

8. Loading applied to the structure during the process of construction shall not exceed the safe load-carrying capacity of the structural members. The live loadings used in the design of this structure are indicated in the "Design Criteria Notes". Do not apply any construction loads until structural framing is properly connected together and until all temporary bracing is in place.

9. All ASTM and other references are per the latest editions of these standards, unless otherwise noted.

10. In accordance with Section 1704 of IBC 2018, special inspections will be required for this project. Special inspections shall be performed in accordance with the "Schedule of Special Inspections". All fabricators shall satisfy the "Exception" noted in section 1704.2.5.1, which requires the fabricator to maintain an agreement with an approved independent inspection or quality control agency. The contractor shall notify the special inspector at least 48 hours in advance for work that will require inspection or testing

11. Unless otherwise indicated, all items noted to be demolished shall become the contractor's property and be removed from the site.

12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work or cost thereof.

13. Dimensions shown on the architectural drawings shall govern over dimensions shown on the structural drawings. The contractor shall generate an RFI regarding discrepancies prior to construction.

SHOP DRAWING NOTES:

1. Shop drawings and other items shall be submitted to the engineer for review prior to fabrication. The engineer's review is to be for conformance with the design concept and general compliance with the relevant contract documents. The engineer's review does not relieve the contractor of the sole responsibility to review, check and coordinate the shop drawings prior to submission. The contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, dimensions, etc.

2. Submit shop drawings as per note #3 below. In no case shall reproduction of the contract drawings be used as shop drawings. As a minimum, submit the following items for review:
   A. Temporary shoring shop drawings and delegated design submittal.
   B. Concrete mix design(s).
   C. Reinforcing steel shop drawings.
   D. Structural steel shop drawings.
   E. Metal decking shop drawings.
   F. Pre-fabricated walkway, ramp, seating and press-box shop drawings and delegated design submittal.
   G. Metal stair and guardrail shop drawings and delegated design submittals.

   Other submittals may be required per the "Schedule of Special Inspections" or the separate notes contained herein.

3. Contractor shall submit electronic shop drawings. Any additional shop drawings submitted will not be reviewed or returned.

4. Contractor shall submit a schedule indicating when each set of shop drawings will be submitted to the architect/engineer prior to any shop drawing submission.

5. All notes or questions from the detailer to the engineer or architect shall be clouded, numbered and with the text "Arch/Engr. review." Any notes or questions from the detailer to the contractor shall be clouded, numbered and with the text "G.C. Review."

6. All shop drawings shall be reviewed by the contractor before submittal to the engineer or architect. Shop drawings will be rejected if the contractor has not reviewed the shop drawings prior to submittal to engineer or architect.

7. The contractor shall produce all shop drawings. Copying, scanning and/or reusing any portion of the structural drawings as part of the shop drawings submittal is not permitted. Submittals that include reproduced portions of the structural drawings will be rejected without review.

DESIGN CRITERIA NOTES:

1. The intended design standards and/or criteria are as follows:
   General: Uniform statewide bldg. code (IBC 2018, Chapter 16 as amended)
   Concrete: ACI 318-14
   Masonry: TMS 402/602-16
   Structural Steel: ANSI/AISC 360-16 A.S.D. (15TH Edition)
   Metal Deck: SDI-17
   Foundations: Geotechnical Investigation and Report completed by Kleinfelder, Inc., dated January 8th, 2025.

2. Design gravity dead loads used in the design of this structure are as follows (refer to IBC 2018 section 1606):

Concrete Risers & Bleachers	80 PSF
First Floors	On-Grade
Second Floor (Home Bleacher)	60 PSF
New Press Box (Home Bleacher)	15,850 LBS. Applied evenly over area of new steel platform.
All other	Actual weight

3. Design gravity live loads used in the design of this structure are as follows (refer to IBC 2018 section 1607):

Concrete Risers & Bleachers	100 PSF
New Press Box Roof (Home Bleacher)	50 PSF
New Press Box Floor (Home Bleacher)	100 PSF
Mechanical Spaces (Home Bleacher - Second Floor)	40 PSF
Ramps & Stairs	100 PSF
Slab-On-Grade Corridors	100 PSF

4. The structure has been designed as Risk Category III in accordance with IBC 2018 table 1604.5.

5. Design lateral live loads used in the design of this structure, in accordance with Chapters 11 through 31 of ASCE 7-16, are as follows:
   Wind - Ultimate, main system: 113 mph, Exposure B, Iw = 1.0
   Wind - Ultimate, components: 113 mph, Exposure B, Iw = 1.0

6. Design snow loads used in the design of this structure, in accordance with Chapter 7 of ASCE 7-16, are as follows:
   Pg (ground snow load) = 35 PSF, Ce = 1.0, Is = 1.0, Ct = 1.0
   Pf (flat roof) = 35 PSF, Cs = 1.0
   Pm (minimum snow load) = 35 PSF

7. The lateral load resisting system of this building consists of:
   Home Bleachers:
   Perimeter - Unreinforced masonry shear walls
   Visitor Bleachers:
   Perimeter - Unreinforced masonry shear walls
   New Press Box Steel Platform:
   Perimeter - Steel braced-frame bays.

8. This structure has been designed with "safety factors" in accordance with generally accepted principles of structural engineering. The fundamental nature of the "safety factor" is to compensate for uncertainties in the design, fabrication and erection of structural building components. It is intended that "safety factors" be used so that the load carrying capacity of the structure does not fall below the design load and that the building will perform under design load without distress. While the use of "safety factors" implies some excess capacity beyond design load, such excess capacity cannot be adequately predicted and SHALL NOT BE RELIED UPON.

EXISTING CONSTRUCTION NOTES:

1. Before proceeding with any work within the existing facility, the contractor shall familiarize himself with existing structural and other conditions. It shall be the contractor's responsibility to provide all necessary bracing, shoring and other safeguards to maintain all parts of the existing work in a safe condition during the process of demolition and construction and to protect from damage those portions of the existing work which are to remain.

2. The contractor shall field verify the dimensions, elevations, etc. necessary for the proper construction and alignment of the new portions of the work to the existing work. The contractor shall make all measurements necessary for fabrication and erection of structural members. Any discrepancy shall be immediately brought to the attention of the engineer.

3. Welding to and within an existing facility presents potential hazards, including:
   A. Fire hazard - due to the existing construction and building contents.
   B. Structural liquefaction - due to welding across the full section of structural steel members.

   Recommendations to prevent these hazards include:
   A. Fire hazard - protect existing combustibles prior to welding. Keep a separate watchman and several fire extinguishers on hand.
   B. Structural liquefaction - weld in small increments. Allow welds to harden before continuing to the next increment.
   C. Do not leave the site until satisfied that no fire hazard exists.

4. Information used in preparing these drawings was taken from drawings prepared by the firm of Henry Y. Shaub & H. Clifford Kreisle Associated Architects, dated March 11th, 1948.

5. The contractor shall be responsible for the design and erection of all shoring necessary to safeguard the existing structure. Any shoring shown is a partial and schematic representation of that required. The contractor shall submit a detailed plan for shoring, bracing and protection of the existing construction. The plan shall include a construction sequence, design calculations, bear the seal of a professional engineer registered in the state of the project and be submitted to the engineer for review prior to beginning the work.

DEMOLITION NOTES:

1. The contractor is to obtain and pay for all necessary permits for the demolition and removal work required.

2. Demolition procedures, shoring requirements, sequences, techniques, etc. either given in or implied to by these drawings are suggestions only.

3. Prior to undertaking any demolition work, the contractor shall ascertain, by survey, the existing conditions of the property and the extent of the demolition work involved.

4. The contractor shall perform all demolition work in such a manner as to protect the existing structure and be responsible to properly repair any damage which may occur as a result of his demolition work. If the contractor damaged the existing structure to remain, he shall notify the owner and engineer immediately and for all repair costs, including design and inspection expenses.

5. The contractor shall cease demolition operations and notify the owner and engineer immediately if it appears that the integrity of the structure has been affected by the demolition work.

6. The contractor shall not cut or alter any structural members to remain without written authorization by the engineer or as indicated on the structural drawings.

7. All existing dimensions (distances, elevations, member sizes, etc.) shown on the drawings shall be verified in the field by the contractor.

8. The contractor shall provide a temporary platform to catch debris from slab removal. Do not allow resulting debris to accumulate in the work area. All debris shall be disposed of in a legal manner with as little disturbance to adjacent spaces and occupants as possible.

9. Cutting of existing concrete slabs shall be performed in a neat professional manner. Drill corners and saw cut straight lines around the perimeter of the new opening.

SUBGRADE PREPARATION NOTES:

1. All site preparation shall conform to the requirements of IBC 2018 Chapter 18 and the Geotechnical Investigation and Report completed by Kleinfelder, Inc., dated January 8th, 2025.

2. Within an area a minimum of 5 feet beyond the building limits, excavate a minimum of 4" of existing soil. Remove all organics, pavement, roots, debris and otherwise unsuitable material.

3. The surface of the exposed subgrade shall be inspected by probing or testing to check for pockets of soft or unsuitable material. Excavate unsuitable soil as directed by the geotechnical engineer/testing agency.

4. Proofroll the surface of the exposed subgrade with a steel drum vibratory roller having a minimum static weight of 15 tons. Remove all soils which pump or do not compact properly as directed by the geotechnical engineer/testing agency.

5. Fill all excavated areas with approved controlled fill. Place in 10 inch loose lifts (6 inch lifts where hand-operated equipment is necessary) and compact to a minimum of 98% of the maximum dry density in accordance with ASTM D-698 (95% per ASTM D1557).

6. All controlled fill material shall be a select granular material free from all organics or otherwise deleterious material with not more than 30% by weight passing a No. 200 sieve (classified as SC, SM, SP or better in accordance with the unified soil classification system) and with a plasticity index not exceeding 10%.

7. Provide field density tests for each 3,000 s.f. of building area for each lift of controlled fill.

FOUNDATION NOTES:

1. All foundation construction shall conform to the requirements of IBC 2018 Chapter 18 and the Geotechnical Investigation and Report completed by Kleinfelder, Inc., dated January 8th, 2025.

2. All footings have been designed based upon an assumed soil bearing pressure of 3,000 psf. All footings shall bear on undisturbed, firm natural soil or compacted fill. All foundation excavations shall be evaluated by the geotechnical engineer/testing agency prior to pouring foundation concrete.

3. Top of footing elevation shall be as shown on the foundation plan. These elevations are a maximum and shall be lowered as required to obtain the required design bearing pressure or lowered below new or existing utilities per typical details.

4. All foundation concrete shall obtain a 28 day compressive strength of 3,000 psi. All concrete to be permanently exposed to weather shall be air entrained to 5% (+-1%) with an admixture that conforms to ASTM C-260.

5. All concrete work shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings". Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.

6. All reinforcing steel shall conform to ASTM A-615, Grade 60. Reinforcing shall be detailed and installed per ACI 315 and CRSI Manual of Standard Practice.

7. Unless otherwise noted, the following concrete cover shall be provided for reinforcement.
   A) Concrete cast against and permanently exposed to earth: 3"
   B) Concrete exposed to earth or weather:
   #6 through #18 bars: 2"
   #5 bar, W31 or D31 wire and smaller: 1-1/2"

8. All reinforcing marked continuous (cont.) on the plans and details shall be lapped 36xbar diameters at splices unless otherwise noted.

9. No unbalanced backfilling shall be placed against foundation walls unless walls are securely braced against overturning, either by temporary bracing or by permanent construction.

10. Prior to commencing any foundation work, coordinate work with any existing utilities. Foundations shall be lowered where required to avoid utilities.

11. Unless otherwise noted, the centerlines of column foundations shall be located on column centerlines.

SLAB ON GRADE NOTES:

1. Slab-on-grade construction shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings" and IBC 2018 Section 1907 and the Geotechnical Investigation and Report completed by Kleinfelder, Inc., dated January 8th, 2025.

2. Provide concrete slabs as indicated on plans over a 15 mil polyethylene vapor barrier and 4" of porous fill as follows:
   4" slab reinforced with 6x6- W1.4xW1.4 welded wire fabric and with 4000 psi mix concrete
   Maximum slump for all concrete slabs shall be 5 inches, using type I cement.

3. All welded wire fabric shall be in accordance with ASTM A-1064. Lap adjoining pieces at least one full mesh.

4. All porous fill material shall be a clean granular material with 100% passing a 1-1/2" sieve and no more than 5% passing a no. 4 sieve. Porous fill shall be compacted to 95% max. dry density per ASTM D-698.

5. Slab joints shall be filled with approved material. This should take place as late as possible, preferably 4 to 6 weeks after the slab has been cast. Prior to filling, remove all debris from the slab joints, then fill in accordance with the manufacturer's recommendations as follows:
   Fill with field molded or elastomeric sealant

6. Unless otherwise approved, all welded wire fabric shall be blocked into the position indicated with precast concrete blocks having a compressive strength equal to that of the slab.

7. Walkways and other exterior slabs are not indicated on the structural drawings. See the site plan and architectural drawings for locations, dimensions, elevations, jointing details and finish details. Provide 4" walks reinforced with 6x6 - W1.4xW1.4 WWF unless otherwise noted.

8. Slabs to be permanently exposed to weather shall be air entrained to 5% (+-1%) with an admixture that conforms to ASTM C-260.

9. All concrete work shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings". Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.

10. In order to avoid concrete shrinkage cracking, the maximum length of slab cast in any one continuous pour is recommended to be less than 100 feet. The maximum spacing of joints shall be 12'.

11. The alternate wires of the welded wire fabric must be precut at the slab contraction joint locations to create a "weakened plane". Without cutting the alternate wires, the strength of the wire will prevent the slab from cracking (separating) at the joint and the slab may begin to crack elsewhere.

12. The use of polypropylene fibers (in lieu of welded wire fabric) is prohibited without the written authorization of the engineer.

13. See the architectural drawings for exact locations of depressed slab areas and drains. Slope slab to drains where shown.

14. Slabs have been designed based on the following criteria:
   Subgrade modulus, K=200 pci (assumed)
   Uniform live loading = 100 psf

15. The finish tolerance of all slabs shall be in accordance with ACI 302, Section 8.4.

16. Slabs shall be constructed in accordance with the following flatness/levelness requirements:

Slab Category	Specified	Local Minimum
Straight edged	F_F = 25 , F_L = 20	F_F = 17 , F_L = 15

Floor flatness and levelness tests shall be conducted by the owner in accordance with ASTM E 1155. Results, including acceptance or rejection of the work will be provided to the contractor within 48 hours after data collection. Remedies for out of tolerance work shall be in accordance with the specifications.

CAST-IN-PLACE CONCRETE NOTES:

1. Concrete mixes shall be designed per ACI 301, using Portland cement conforming to ASTM C-150 or C-595, aggregate conforming to ASTM C-33, and admixtures conforming to ASTM C-494, C-1017, C-618, C-989 and C-260. Concrete shall be ready-mixed in accordance with ASTM C-94.

2. Concrete shall conform to the following compressive strength, slump and water/cement ratio requirements:

Concrete	Min. f'c (28 days)	Slump*	W/C ratio
Columns & Piers	4000 psi	2" to 4"	.46
Elevated Slabs	4000 psi	2" to 4"	.46
Concrete not noted	4000 psi	2" to 4"	.50
Foundation	See Fdn. Notes	2" to 4"	.50
Slabs-on-grade	See "Slab-on-Grade Notes"		.50

*At contractor's option, an approved admixture may be used to produce flowable concrete. Maximum slump shall not exceed 10 inches. The contractor shall submit test results of the proposed concrete mixes along with the manufacturer's technical data for approval prior to pouring concrete.

3. All concrete work shall conform to the requirements of ACI 301, "Specification for Structural Concrete Buildings" and IBC 2018 Chapter 19. Hot weather concreting shall be in accordance with ACI 305. Cold weather concreting shall be in accordance with ACI 306.

4. All reinforcing steel shall conform to ASTM A-615, grade 60. All welding of reinforcing steel shall be in accordance with AWS D1.4. Reinforcing shall be detailed and installed per ACI 315 and CRSI Manual of Standard Practice.

5. All welded wire fabric (W.W.F.) shall conform to ASTM A-1064.

6. All reinforcing steel shall be set and tied in place prior to pouring of concrete, except that vertical dowels for masonry wall reinforcing may be "floated" in place. Do not field bend bars partially embedded in hardened concrete unless specifically indicated or approved by the engineer.

7. Reinforcing steel, including hooks and bends, shall be detailed in accordance with ACI 315. All reinforcing steel indicated as being continuous (cont) shall be lapped with a type 2 lap splice unless otherwise noted.

8. Unless otherwise noted, the following concrete cover shall be provided for reinforcement:
   A) Concrete exposed to earth or weather:
   #6 through #18 bars : 2"
   #5 bar, W31 or D31 wire and smaller : 1-1/2"
   B) Concrete not exposed to earth or weather:
   Walls, elevated slabs : 3/4"
   Beams, piers, and columns : 1-1/2"
   C) Foundation concrete (see "Foundation Notes")

9. Bar supports and holding bars shall be provided for all reinforcing steel to insure minimum concrete cover. Bar supports shall be plastic tipped or stainless steel.

10. All edges of permanently exposed concrete surfaces shall be chamfered 3/4" unless otherwise noted.

11. The contractor shall provide the engineer with documentation that all materials conform to the quality standards specified in IBC 2018.

12. In accordance with IBC 2018, special inspections are required for the concrete work. The owner will hire the special inspector to perform all required special inspections.

13. In order to avoid concrete shrinkage cracking, place concrete slabs in an alternating lane pattern. The maximum length of slab cast in any one continuous pour shall be limited to 80 feet.

14. Formwork shall remain in place until concrete has obtained at least 90% of its 28 day compressive strength. The contractor shall provide all shoring and reshoring.

MASONRY NOTES:

1. Masonry construction shall conform to the requirements of the "Building Code Requirements and Specification for Masonry Structures (TMS 402/602-16)", published by The Masonry Society, Longmont, Colorado, and IBC 2018 Chapter 21.

2. Hollow load-bearing masonry units shall conform to ASTM C-90, and be made with normal weight or lightweight aggregate. The minimum prism compressive strength (f'm) shall be 2,500 psi at an age of 28 days, as determined by the unit strength method of ACI 530.1.

3. Fill all bond beams and reinforced cells solidly with grout. Grout shall conform to ASTM C-476 and shall obtain a min. 28 day compressive strength of 2,500 psi.

4. Reinforcing steel shall be in accordance with ASTM A-615, grade 60. Shop fabricate reinforcing bars which are shown to be hooked or bent. Provide a minimum lap of 48 x bar diameters at all splices, unless indicated otherwise.

5. The use of masonry-cement mortar is strictly prohibited. Mortar shall conform to ASTM C-270, type S. All mortar shall meet the "Proportion Specification" of ASTM C-270 and be made with Portland cement/lime (non air-entrained).

6. Unless otherwise indicated, all walls shall be laid in running bond. Bond corners and intersections of load-bearing walls.

7. Provide vertical reinforcing bars of the given size and spacing as indicated. Provide bars at all wall corners, intersections and opening edges. Masonry walls shall be constructed in accordance with the "low-lift" or "high-lift" methods. "High-lift" masonry construction is limited to specially qualified contractors meeting the following minimum requirements:
   A. Successful completion of at least 3 previous projects that utilized "high-lift" wall construction.
   B. Contractor shall submit a detailed "high-lift" wall construction procedure for approval, including the documentation of all personnel who have successfully been trained in "high-lift" masonry construction.

8. Provide rebar dowels from foundations to match vertical reinforcing size and spacing. Dowels shall have standard 90 degree hooks and lap with the first lift of reinforcing.
9. Provide horizontal bond beams with continuous reinforcing as indicated. Discontinue all horizontal reinforcing at control joints except for the bond beams at bearing elevations.

10. Provide standard, galvanized 9 gauge horizontal joint reinforcing at 16" on center in all walls. Provide ladder type joint reinforcing for all concrete masonry. Coordinate brick tie back requirements with the architectural drawings. Unless otherwise noted, stop all horizontal joint reinforcing at control joints.

11. Provide lintels above all wall openings per typical details and schedule. See the architectural drawings for locations of all door and window openings.

12. Provide CMU control joints as indicated on the architectural drawings, with additional joints such that the spacing between joints does not exceed a spacing of 3 x wall height (30 feet maximum). Where beams or lintels bear at CMU control joints, offset and lap the vertical reinforcing as indicated.

13. The masonry contractor shall provide all required temporary wall bracing during construction (see "General Structural Notes").

14. Hot weather masonry work shall be in accordance with ACI 530.1. Cold weather masonry work shall be in accordance with ACI 530.1.

STRUCTURAL STEEL NOTES:

1. All structural steel shall conform to the AISC "Manual of Steel Construction" (15th Edition) and IBC 2018 Chapter 22.

2. Unless otherwise noted, all materials shall be in accordance with the following ASTM specifications:

Member	ASTM	Fy (Min. Strength)
W and WT	A992	50 KSI
C and MC	A36/A992	36 KSI/50 KSI
Angles	A36	36 KSI
HSS (Rectangle)	A500 (Gr. C)	50 KSI
Plates/shapes	A36/A572 (Gr. 50)	36 KSI/50 KSI
Connection bolts	F3125 (Gr. A325)	90 KSI (F_{nt})
Anchor bolts	F1554 (Gr. 55, Supplement S1)	55 KSI
Threaded rods	A36	36 KSI
Non-shrink grout	C1107	8000 PSI

3. All connections shall be shear type connections and designed by a professional engineer registered in the state of the project retained by the fabricator as per the beam reactions shown on the drawings and the AISC specifications. The fabricator shall submit schematic connection details, signed and sealed connection design calculations and a letter prepared by the connection design engineer stating the shop drawings were reviewed prior to submittal for review & approval. Minimum bolt diameter shall be 3/4". Unless otherwise noted all bolts shall be shear/bearing type bolts and be "snug-tight".

4. All welding shall be in accordance with AWS D1.1 using E70XX electrodes. Unless otherwise noted, provide cont. min. sized fillet welds per AISC requirements. All filler material shall have a minimum yield strength of 70 KSI.

5. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes and torch cutting at the site is not permitted.

6. Unless otherwise noted, all structural steel permanently exposed to view shall be shop painted with one coat of SSPC 15-68, type 1 (red oxide) paint.

7. The structural steel erector shall provide all temporary guying and bracing (see General Structural Notes).

8. Columns, anchor bolts, base plates, etc. have been designed for the final completed condition and have not been investigated for potential loadings encountered during steel erection and construction. Any investigation of the columns, anchor bolts, base plates, etc. for adequacy during the steel erection and construction process is the sole responsibility of the contractor.

9. Unless otherwise noted, all structural steel permanently exposed to the weather, including all lintels in exterior walls, shall be hot-dipped galvanized in accordance with ASTM A153.

ABBREVIATIONS

@	AT
ø	DIAMETER
2X	TWO BY
(4)	QUANTITY OF 4
A.B.	ANCHOR BOLT
A.P.	ANCHOR POINT
ADD'L.	ADDITIONAL
ADJ.	ADJACENT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL.	ALUMINUM
ARCH.	ARCHITECT/ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
BCX	BOTTOM CHORD EXTENSION
BEL.	BELOW
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
B.O.	BOTTOM OF
BTWN.	BETWEEN
C	CHANNEL
CFSF	COLD-FORMED STEEL FRAMING
CL	CENTER/COLUMN LINE
CLR.	CLEAR
C.J.	CONTROL/CONSTRUCTION JOINT
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
COORD.	COORDINATE
DBL.	DOUBLE
DET.	DETAIL
DN.	DOWN
DWL.	DOWEL
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
ELEV.	ELEVATION
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
EX.	EXISTING
EXP.	EXPANSION
FLG.	FLANGE
FLR.	FLOOR
FDN.	FOUNDATION
F.O.	FACE OF
F.S.	FAR SIDE
FTG.	FOOTING
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
HK.	HOOK
HGR.	HANGER
HSS	HOLLOW STRUCTURAL SECTION
HORIZ.	HORIZONTAL
HT.	HEIGHT
INT.	INTERIOR
JST.	JOIST
JT.	JOINT
K	KIPS
L	ANGLE
(LLH)	LONG LEG HORIZONTAL
(LLV)	LONG LEG VERTICAL
LOC.	LOCATION
LG.	LONG
L.R.F.D.	LOAD & RESISTANCE FACTOR DESIGN
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
M.A.	MASONRY ANCHOR
MAX.	MAXIMUM
MIN.	MINIMUM/MINIMIZE
MANF.	MANUFACTURER
MECH.	MECHANICAL
M.O.	MASONRY OPENING
MTL.	METAL
(N)	NEW
N.S.	NEAR SIDE
N.S.G.	NON-SHRINK GROUT
O.C.	ON CENTER
OPN'G.	OPENING
OPP.	OPPOSITE
P.C.	PRE-CAST
PL	PLATE
PLYWD.	PLYWOOD
PMF	PRE-MOLDED FILLER
PSL	PARALLEL STRAND LUMBER
P.T.	PRESSURE TREATED
R/C	REINFORCED CONCRETE
REINF.	REINFORCING
REQ'D.	REQUIRED
RTU	ROOF TOP UNIT
SCH.	SCHEDULE
SECT.	SECTION
SF	STRIP FOOTING
SHT'G.	SHEATHING
SIM.	SIMILAR
SL	SLOPE
S.O.G.	SLAB-ON-GRADE
S.S.	STAINLESS STEEL
STL.	STEEL
SQ.	SQUARE
T&B	TOP AND BOTTOM
TCX	TOP CHORD EXTENSION
THK.	THICK
TJI	TRUSS JOIST I-SHAPED JOISTS
T.O.	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.L.D.	VERTICAL LEG DOWN
V.I.F.	VERIFY IN FIELD
WD.	WOOD
W/	WITH
W/O	WITHOUT
W.P.	WORK POINT
W.R.T.	WITH RESPECT TO
W.W.F.	WELDED WIRE FABRIC
WF	WIDE FLANGE BEAM
W	WIDE FLANGE BEAM
X	CROSS

SYMBOL KEY

CMU, BRICK, CONCRETE, WOOD ELEVATION, WOOD SECTION, STEEL, GRATING, EARTH, CRUSHED STONE/ BUILDING STONE, ENGINEERED WOOD PRODUCT

STRUCTURAL DRAWING LIST

S0.0	GENERAL STRUCTURAL NOTES
S0.1	GENERAL STRUCTURAL NOTES & SCHEDULES
S0.2	SCHEDULE OF SPECIAL INSPECTIONS
S1.0	FOUNDATION PLANS
S1.1	FRAMING PLANS
S1.2	CONCRETE RESTORATION WORK - VISITOR BLEACHER
S1.3	CONCRETE RESTORATION WORK - HOME BLEACHER
S2.0	SECTION DETAILS
S2.1	SECTION DETAILS
S2.2	SECTION DETAILS
S2.3	SECTION DETAILS
S3.0	TYPICAL DETAILS
S3.1	TYPICAL DETAILS

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School District of Lancaster
Together We Can!

ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ #: MM2410 DRAWN BY: ESR

SHEET TITLE:
GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S0.0

CONFORMED SET

4/22/2025 8:06:13 AM

GENERAL STRUCTURAL NOTES

10. Protective coatings damaged during the transporting, erecting and field welding processes shall be repaired in the field to match the shop applied coating.

11. Finish welds shall be ground smooth and free of burrs.

12. Finished galvanized surfaces shall be smooth and free of galvanized paint bead build up from multiple layer applications.

13. The Owner will hire an independent testing agency to provide special inspections of bolting, welding and other items in accordance with IBC 2018, Section 1704.

14. Provide angle frames at all floor and roof openings and mechanical rooftop units per typical details on sheet S3.1.

COMPOSITE DECKING SYSTEM NOTES:

1. The floor decking of this building has been designed in accordance with the AISC allowable stress design specifications for unshored, partial composite construction.

2. All composite steel decking shall be:
A. Type 2", 20 gauge, as manufactured by Vulcraft, or approved equal.
B. Designed in accordance with the composite steel floor deck specifications of the Steel Deck Institute (SDI).
C. Fabricated from steel sheet conforming to ASTM A1008 or A653 (or equal) having a minimum yield strength of 33 KSI.
D. Galvanized by the hot-dip process conforming to ASTM A653 class G60 or G90.
E. Erected in accordance with SDI specifications. Anchor decking as indicated. Minimum bearing of the deck shall be 1-1/2" unless otherwise noted.
F. Welded in accordance with AWS D1.4.

3. Provide steel decking accessories, such as closures, pour stops and fillers as indicated. Accessories shall be 20 gauge unless otherwise noted, and conform to items 2.8 thru 2.F above.

4. All concrete decking shall be:
A. Normal weight with a 28 day compressive strength, f'c equal to 4,000 psi (unit weight = 145 pcf). Total slab thickness from underside of metal deck to top of finished slab surface shall be as indicated on the drawings.
B. Reinforced with one layer of 6x6-W1.4x1.4 welded wire fabric supported on chairs so it is located 1" clear from the top of the slab.
C. In accordance with ACI 318 and 301 and have a maximum slump of 4 inches. Admixtures containing chlorides are prohibited.

METAL STAIR & GUARDRAIL NOTES:

1. Steel Stair Design Live Loads: Engineer, fabricate, and install steel stairs to withstand the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply each load to produce the maximum stress in each component of steel stairs.
a. Treads of Steel Stairs: Capable of withstanding a uniform load of 100 lbf per sq. ft. or a concentrated load of 300 lbf on an area of 4 sq. inches located in the center of the tread, whichever produces greater stress.
b. Platforms of Steel Stairs: Capable of withstanding a uniform load of 100 lbf per sq. ft.
c. Stair framing: Capable of withstanding stresses resulting from loads specified above as well as stresses resulting from railing system loads.

2. Engineer, fabricate, and install handrails and railing systems to comply with requirements of ASTM A-985 for structural performance based on the following:
a. Testing performed according to ASTM A-894 and E 935.
b. Structural computations.

3. Railing System and Handrail Design Live Loads: Engineer, fabricate, and install handrails and railing system to withstand the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply each load to produce the maximum stress in each off the respective components of each metal fabrication.
a. Top Rail of Guardrail System: Capable of withstanding the following loads applied as indicated:
1. Concentrated load of 200 lbs applied at any point and in any direction.
2. Uniform load of 50 lbs per linear foot applied in any direction.
3. Concentrated and uniform loads above need not be assumed to act concurrently.
b. Handrails Not Serving as Top Rails: Capable of withstanding the following loads applied as indicated.
1. Concentrated load of 200 lbs applied at any point and in any direction.
2. Uniform load of 50 lbs per linear foot applied in any direction.
3. Concentrated and uniform loads above need not to be assumed to act concurrently.
c. Infill Area of Guardrail Systems: Capable of withstanding a horizontal concentrated load of 50 lbs applied to one sq. ft. at any point on the system including panels, intermediate rails, balusters, or other elements composing the infill area.
1. Above load need not be assumed to act concurrently with loads on top rails of railing system in determining stress on guard.

4. Submit Product data for metal stairs, prefilled metal pan stair treads, non-slip aggregates and nonslip aggregate surface finishes, cast nosings, extruded nosings, steel floor plate, paint products, and grout.

5. Submit Shop drawings detailing fabrication and installation of steel stairs. Include plans, elevations, sections, and details of steel stair and their connections. Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other sections. Refer to "Shop Drawing Notes" section for additional requirements.
a. Include structural analysis data sealed and signed by the qualified professional engineer who was responsible for their preparation.

6. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code-Steel" and AWS D1.3 "Structural Welding Code-Sheet Steel."
a. Certify that each welder has satisfactorily passed AWS qualification tests for welding processed involved and, if pertinent, has undergone recertification.

RECOMMENDED UNDERPINNING PROCEDURE NOTES:

1. Underpinning shall be done by the Contractor.

2. Assumed bottoms and locations and existing footings and walls are shown on plans and details.

3. Sheeting, whalers, struts, and braces shall be installed as excavation progresses.

4. All concrete shall attain a compressive strength of 5000 PSI within 28 days. Use Type III cement. Cure earth section 2 days.

5. Length of underpinning sections is to be +4'-0". Width shown on plans and sections.

6. Underpinning Contractor shall submit for approval a shop drawing showing the proposed sequence and details of operations before beginning work.

7. Each section excavation is to be fully lagged and protected so as not to disturb the soil supporting the adjacent portion of the existing foundation.

8. Each section is to be placed and dry packed before proceeding to the next sequence number. All dry packing is to be done with a non-shrink grout, cured for 2 days.

9. Contractor to shore existing columns prior to excavation of column footings. Submit shoring plan and design calculations which are sealed by a professional engineer. Provide all necessary shoring/sheeting required to protect adjacent construction.

POST-INSTALLED ANCHOR NOTES:

1. Except where indicated on the drawings, post-installed anchors shall consist of the following anchor types as provided by HILTI, Inc. Contact HILTI at (800) 879-8000 for product related questions.
A. Anchorage to concrete
1. Adhesive anchors for cracked and uncracked concrete use:
A. Adhesives for use:
1. HILTI HIT-HY 200 safe set system with HILTI HIT-Z rod per ICC ESR-3187
2. HILTI HIT-HY 200 safe set system with HILTI hollow drill bit and vacuum with has threaded rod per ICC ESR-3187
B. Steel elements for use with adhesive:
1. HILTI HAS-V-36 grade 36 carbon steel rod
2. HILTI HAS-E-55 grade 55 carbon steel rod
2. Basis of design includes the following design parameters:
A. Cracked concrete
B. Water-saturated concrete
C. Base material temperature of 23-104 degrees Fahrenheit
D. Allowable with hammer-drill, hollow drill bit system, and core drilling methods
3. Medium duty mechanical anchors for cracked and uncracked concrete use:
A. HILTI KWIK BOLT-TZ2 expansion anchor safe set system with hollow drill bit and vacuum and SI-AT-A22 tool with adaptive torque for applicable sizes per ICC ESR-4266
B. Rebar doweling into concrete
1. Adhesive anchors for cracked and uncracked concrete use:
A. HILTI HIT-HY 200 safe set system with HILTI hollow drill bit and vacuum with continuously deformed rebar per ICC ESR-318
2. Basis of design includes the following design parameters:
A. Cracked concrete
B. Water-saturated concrete
C. Base material temperature of 23-104 degrees Fahrenheit
D. Allowable with hammer-drill, hollow drill bit system, and core drilling methods
E. Current ICC-ES report with approval for development of bar using ACI provisions for embedment depths greater than 20 bar diameters
C. Anchorage to solid grouted masonry
1. Adhesive anchors use:
A. HILTI HIT-HY 270 safe set system with HILTI hollow drill bit and vacuum per ICC ESR-4143
B. Steel anchor element shall be HILTI has continuously threaded rod or continuously deformed steel rebar
2. Mechanical anchors use:
A. HILTI KWIK BOLT-TZ2 expansion anchor per ICC ESR-4561
D. Anchorage to hollow/multi-wythe masonry
1. Adhesive anchors use:
A. HILTI HIT-HY 270 safe set system with HILTI hollow drill bit and vacuum per ICC ESR-4143.
B. Steel anchor element shall be HILTI has continuously threaded rod or continuously deformed steel rebar.
C. The appropriate size screen tube shall be used per adhesive manufacturer's printed installation instructions.

2. Anchor capacity used in design shall be based on the technical data published by HILTI or other such method as approved by the structural engineer of record. Substitution requests for alternate products must be approved in writing by the structural engineer of record prior to use. Contractor shall provide calculations that have been sealed by another licensed engineer demonstrating that the substituted product is capable of meeting the performance of the specified product. Substitutions will be evaluated by their having an ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category, and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature, installation temperature, moisture condition of concrete, and drilling methods.

3. Use of diamond core bit with roughening tool for anchor holes requires approval from engineer of record prior to drilling. Unless otherwise shown in the drawings, all holes shall be drilled perpendicular to the concrete surface.

4. Install anchors per the manufacturer's printed installation instructions, as included in the anchor packaging.

5. Overhead adhesive anchors must be installed using the HILTI Profi Piston Plug System.

6. ACI/CRSI adhesive anchor installer certification is required for all installers of adhesive anchors in horizontal or upwardly inclined orientation. The HILTI Adhesive Anchor Installer Certification Program (HAAICP) is an approved equivalent.

7. The contractor shall arrange an anchor manufacturer's representative to provide onsite installation training for all anchor products specified. The structural engineer of record must receive documented confirmation that all personnel who install anchors are trained prior to the commencement of anchor installation.

8. Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

9. Existing reinforcing bars in the concrete structure may conflict with specific anchor locations. Unless noted on the drawings that the bars can be cut, the contractor shall review the existing structural drawings and shall undertake to locate the position of the reinforcing bars at the locations of the concrete anchors by HILTI PS 1000 or other GPR, X-RAY, chipping or other approved means.

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	COMMENTS
F5.0	5'-0" x 5'-0" x 1'-0"	(6) #5 E.W.B.	COL. FTG.
SF-20	CONT. 1'-8" x 0'-10"	(3) #5 LONG. & #5 @ 48" O.C TRANSV.	CONT. FTG.
SF-21	CONT. 1'-9" x 1'-6"	(3) #5 LONG. & #5 @ 32" O.C TRANSV.	CONT. FTG.
SF-24	CONT. 2'-0" x 1'-0"	(3) #5 LONG. & #5 @ 48" O.C TRANSV.	CONT. FTG.
SF-36	CONT. 3'-0" x 1'-0"	(4) #5 LONG. & #5 @ 24" O.C. TRANSV.	CONT. FTG.

NOTE: RUN CONTINUOUS WALL. FTG. REINF. THROUGH COLUMN FTGS

PIER SCHEDULE

MARK	SIZE	REINFORCEMENT	COMMENTS
P1	1'-10" x 1'-10"	(8) #7 VERT. W/ #3 TIES @ 12" O.C.	SEE DETAIL L/S-3.0

NOTE: PROVIDE (2) ADD'L TIES @ T.O. PIER

DECK SCHEDULE

MARK	DEPTH (in.)	GAGE	TYPE	MINIMUM SECTION PROPERTIES				COMMENTS
				S_p (in.^{3})	S_n (in.^{3})	I_p (in.^{4})	I_n (in.^{4})	
S-1	2"	20	CANAM LOK-FLOOR COMPOSITE STEEL DECK W/ NORMAL WEIGHT CONC. FILL (4 1/2" TOTAL THICKNESS) W/ W.W.F. 6x6-W1.4xW1.4	0.332	0.345	0.390	-	MIN. (3) SPANS CONT., GALV.

PROJECT LINTEL SCHEDULE (U.N.O. ON PLANS/DETAILS)

NEW INTERIOR MASONRY WALLS	
MASONRY OPENING	LINTEL
0' < M.O. ≤ 6'-4" (4", 8", 12", 16", 20" CMU)	P.C. 4x8 PER 4" OF WALL THICKNESS (4", 8", 12", 16", 20" CMU)
0' < M.O. ≤ 6'-4" (6" CMU)	P.C. 6x8
6'-4" < M.O. ≤ 10'-8"	W8x24 + 3/8" CONT. PL x WIDTH OF WALL
10'-8" < M.O. ≤ 16'-0" (6" CMU)	W8x21 + 3/8" CONT. PL x WIDTH OF WALL
10'-8" < M.O. ≤ 16'-0" (8", 12", 16" CMU)	W16x26 + 3/8" CONT. PL x WIDTH OF WALL
NEW EXTERIOR MASONRY WALLS	
MASONRY OPENING W/ BRICK	LINTEL
0' < M.O. ≤ 6'-4" (4", 8", 12", 16" CMU + BRICK)	P.C. 4x8 OR L5x3 1/2x5/16 LLV PER 4" OF WALL THICKNESS + L5x3 1/2x5/16 LLV LOOSE
6'-4" < M.O. ≤ 10'-8"	W8x24 + 3/8" CONT. PL x WIDTH OF WALL
10'-8" < M.O. ≤ 16'-0" (8", 12", 16" CMU)	W16x26 + 3/8" CONT. PL x WIDTH OF WALL
EXISTING MASONRY WALLS	
MASONRY OPENING	LINTEL
0' < M.O. ≤ 6'-4"	L5x3 1/2x5/16 LLV PER 4" OF WALL THICKNESS
6'-4" < M.O. ≤ 10'-8"	W8x24 + 3/8" CONT. PL x WIDTH OF WALL
10'-8" < M.O. ≤ 16'-0"	W16x26 + 3/8" CONT. PL x WIDTH OF WALL

NOTES:
1. ALL STEEL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
2. P.C. LINTELS TO BE REINFORCED WITH #3 TOP & #4 BOTTOM U.N.O.
3. PROVIDE MIN. 8" BEARING EACH END OF LINTEL, U.N.O.
4. CONNECT LINTEL TO BUILDING COLUMN IF LESS THAN 16" MASONRY EXISTS BETWEEN MASONRY OPENING & FACE OF COLUMN. USE STEEL ANGLES IN LIEU OF P.C. LINTELS AT THESE LOCATIONS.
5. LINTELS ARE REQUIRED AT OPENINGS OF MORE THAN 12" FOR BRICK-SIZE UNITS AND 24" FOR BLOCK-SIZE UNITS U.N.O. IF LESS THAN 8" OF MASONRY EXISTS BETWEEN ADJACENT OPENINGS THEY SHALL BE CONSIDERED AS ONE SINGLE OPENING.
6. REFER TO G/S3.1 FOR TYPICAL LINTEL DETAILS.

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ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
GENERAL STRUCTURAL NOTES & SCHEDULES

SHEET NUMBER:
S0.1

CONFORMED SET

4/22/2025 8:06:14 AM

SCHEDULE OF SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE TABLE BELOW.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS: IBC 2018 TABLE 1705.6 & GEOTECHNICAL REPORT		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION: IBC 2018 TABLE 1705.3				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	—	X	ACI 318 CH. 20, 25.2, 25.3, 26.1–26.6.3	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 17.8.2	—
3. INSPECT ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X —	— X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	—
4. VERIFY USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
6. INSPECT CONCRETE FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3–26.5.5	1908.9
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2(b)	—

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL: IBC 2018 1705.2.1 & AISC 360–10		
TABLE N5.4–1 INSPECTION TASKS PRIOR TO WELDING		
INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM [1]	O	O
FIT–UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) ◊ JOINT PENETRATION ◊ DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) ◊ CLEANLINESS (CONDITION OF STEEL SURFACES) ◊ TACKING (TACK WELD QUALITY AND LOCATION) ◊ BACKING TYPE AND FIT (IF APPLICABLE)	O	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
FIT–UP OF FILLET WELDS ◊ DIMENSIONS (ALIGNMENT, GAPS AT ROOT) ◊ CLEANLINESS (CONDITION OF STEEL SURFACES) ◊ TACKING (TACK WELD QUALITY AND LOCATION	O	O
CHECK WELDING EQUIPMENT	O	—

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

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE–STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL: IBC 2018 1705.2.1 & AISC 360–10		
TABLE N5.4–2 INSPECTION TASKS DURING WELDING		
INSPECTION TASKS DURING WELDING	QC	QA
USE QUALIFIED WELDERS	O	O
CONTROL AND HANDLING OF WELDING CONSUMABLES ◊ PACKAGING ◊ EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS ◊ WIND SPEED WITHIN LIMITS ◊ PRECIPITATION AND TEMPERATURE	O	O
WPS FOLLOWED ◊ SETTINGS ON WELDING EQUIPMENT ◊ TRAVEL SPEED ◊ SELECTING WELDING MATERIALS ◊ SHIELDING GAD TYPE/FLOW RATE ◊ PREHEAD APPLIED ◊ INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) ◊ PROPER POSITION (F, V, H, OH)	O	O
WELDING TECHNIQUES ◊ INTERPASS AND FINAL CLEANING ◊ EACH PASS WITHIN PROFILE LIMITATIONS ◊ EACH PASS MEETS QUALITY REQUIREMENTS	O	O
FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE–STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.		

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL: IBC 2018 1705.2.1 & AISC 360–10		
TABLE N5.4–3 INSPECTION TASKS AFTER WELDING		
INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA ◊ CRACK PROHIBITION ◊ WELD/BASE–METAL FUSION ◊ CRATER CROSS SECTION ◊ WEKD PROFILES ◊ WELD SIZE ◊ UNDERCUT ◊ POROSITY	P	P
ARC STRIKES	P	P
k–AREA[1]	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P

[1] WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K–AREA, VISUALLY INSPECT THE WEB K–AREA FOR CRACKS WITHIN 3 IN (77 MM) OF THE WELD.

FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M *STRUCTURAL WELDING CODE–STEEL* FOR *STATICALLY LOADED STRUCTURES* SHALL APPLY.

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL: IBC 2018 1705.2.1 & AISC 360–10		
TABLE N5.6–1 INSPECTION TASKS PRIOR TO BOLTING		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
PRE–INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL: IBC 2018 1705.2.1 & AISC 360–10		
TABLE N5.6–2 INSPECTION TASKS DURING BOLTING		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
JOINT BROUGHT TO THE SNUG–TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O

REQUIRED SPECIAL INSPECTIONS FOR STRUCTURAL STEEL: IBC 2018 1705.2.1 & AISC 360–10		
TABLE N5.6–3 INSPECTION TASKS AFTER BOLTING		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLT CONNECTIONS	P	P

STRUCTURAL STEEL NOTES:

1. ***QUALITY CONTROL*** **(QC)** – SHALL BE PROVIDED BY THE FABRICATOR OR ERECTOR
2. ***QUALITY ASSURANCE*** **(QA)** – SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE *AUTHORITY HAVING JURISDICTION* (AHJ), *APPLICABLE BULDING CODE* (ABC), PURCHASER, OWNER, OR *ENGINEER OF RECORD* (EOR).
3. **O** – OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
4. **P** – PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, EACH BOLTED CONNECTION, AND/OR EACH STEEL ELEMENT.

REQUIRED SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION: IBC 2018 1705.4 & TMS 402/ACI 520/ASCE5 & TMS 602/ACI 530.1/ASCE 6				
TABLE 3.1.2 – LEVEL B QUALITY ASSURANCE				
MINIMUM TESTS				
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF CONSOLIDATING GROUT				
VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE				
MINIMUM SPECIAL INSPECTION				
INSPECTION TASKS	FREQUENCY (a)		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ ASCE 5	TMS 602/ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		Art. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIOINS OF SITE–PREPARED MORTAR		X		Art. 2.1, 2.6 A
b. CONSTRUCTION OF MORTAR JOINTS		X		Art. 3.3 B
c. LOCATION OF REINFORCEMENT AND CONNECTORS		X		Art. 3.4 B, 3.6 A
3. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		Art. 3.2 D, 3.2 F
b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS		X	SEC. 6.1	Art. 2.4, 3.4
c. PLACEMENT OF REINFORCEMENT AND CONNECTORS		X	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	Art. 3.2 E, 3.4, 3.6 A
d. PROPORTIONS OF SITE–PREPARED GROUT		X		Art. 2.6 B, 2.4 G.1.b
e. CONSTRUCTION OF MORTAR JOINTS		X		Art. 3.3 B
4. VERIFY DURING CONSTRUCTION				
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		Art. 3.3 F
b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1 (e), 6.1.4.3, 6.2.1	
c. WELDING OF REINFORCEMENT	X		SEC. 8.1.6.7.2, 9.3.3.4 (c), 11.3.3.4 (b)	
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		X		Art. 1.8 C, 1.8 D
e. PLACEMENT OF GROUT	X			Art. 3.5, 3.6 C
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
(b) REQUIRED FOR THE FIRST 50000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

REQUIRED SPECIAL INSPECTIONS FOR COLD–FORMED STEEL DECK CONSTRUCTION		
INSPECTION TASKS	FREQUENCY	REFERENCE
1. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD–FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC	—	IBC 2018 – 1705.2.2
2. VERIFY DECK TYPE, DEPTH, AND GAUGE	PERIODIC	STRUCTURAL DRAWINGS & SCHEDULES

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School District of Lancaster
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PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:

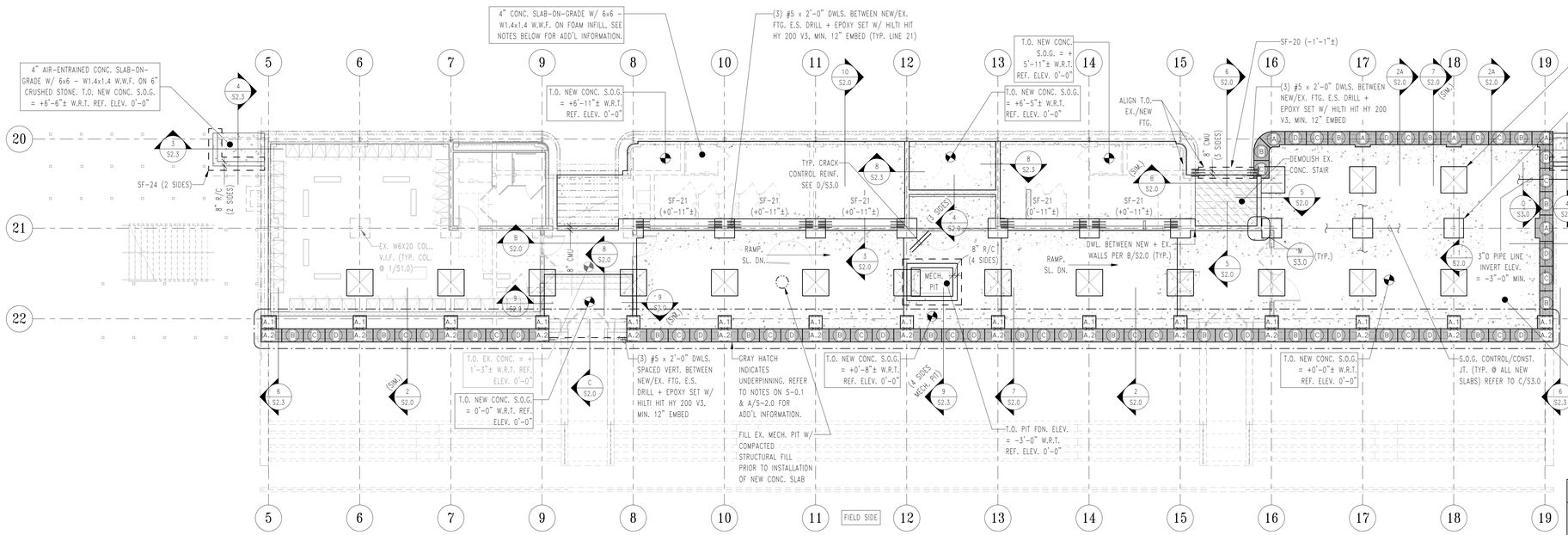
SCHEDULE OF SPECIAL INSPECTIONS

SHEET NUMBER:

S0.2

CONFORMED SET

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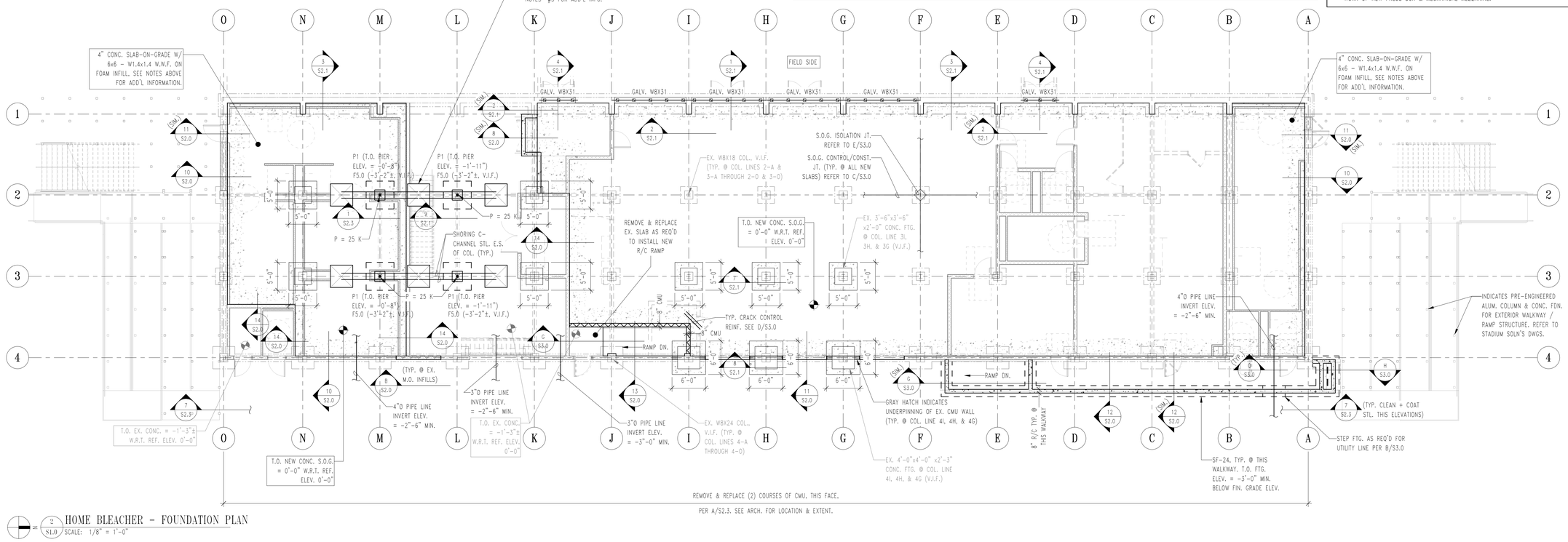
1 / S1.0 = VISITOR BLEACHER – FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

EXPANDED POLYSTYRENE (EPS) FORMWORK NOTES

1. EXPANDED POLYSTYRENE SHALL BE PRODUCED IN ACCORDANCE WITH ASTM D6817 TYPE EPS15 – STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE.
2. PROVIDE A MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION AND PLACEMENT OF CONCRETE UTILIZING THIS FORMWORK PRODUCT. ADDITIONALLY, PROVIDE 5 REFERENCES TO SIMILAR TYPE PROJECTS.
3. SUBMIT EPS FORMWORK MANUFACTURER'S PRODUCT LITERATURE AND DATA, INCLUDING:
   A. PHYSICAL PROPERTIES IN COMPLIANCE WITH ASTM D6817 TYPE SPECIFIED.
   B. PROVIDE EPS FORMWORK 15–YEAR WARRANTY COVERING THE LONG–TERM PHYSICAL PROPERTY OF EXPANDED POLYSTYRENE FORMWORK.
   C. TEST COMPLIANCE: SUMMARY OF TEST COMPLIANCE WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES.
4. SUBMIT SHOP DRAWINGS SHOWING EPS FORMWORK BLOCK LAYOUT.
5. DELIVER EPS FORMWORK LABELED WITH MATERIAL TYPE. STORE ABOVE GROUND, AND PROTECTED FROM MOISTURE AND SUNLIGHT PRIOR TO INSTALLATION.
6. PRODUCT SHOULD NOT BE EXPOSED TO OPEN FLAME OR OTHER IGNITION SOURCES.
7. LIGHT GAGE METAL PLATES SHALL BE USED TO RESTRAIN EPS FORMWORK FROM MOVING LATERALLY IN LAYER OVER LAYER APPLICATIONS. THE PLATE SHALL BE MADE OF GALVANIZED OR STAINLESS STEEL WITH TWO–SIDED MULTI–BARBED DESIGN CAPABLE OF PIERCING THE EPS FORMWORK. EACH PLATE SHALL BE CAPABLE OF A LATERAL HOLDING STRENGTH OF 120 LBS. PROVIDE TWO PLATES FOR EACH 4 FOOT X 8 FOOT SECTION OF EPS FORMWORK – MINIMUM.
8. ALL EPS FORMWORK INSTALLATION SHALL BE IN COMPLIANCE WITH MANUFACTURER'S EPS FORMWORK PRODUCT DATA; INCLUDING TECHNICAL BULLETINS. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE SYSTEM INSTALLATION.
9. PRIOR TO INSTALLATION, VERIFY CONDITIONS OF SUBSTRATE, GRADE AND OTHER CONDITIONS WHICH AFFECT INSTALLATION OF EPS FORMWORK.
10. INSTALL EPS FORMWORK PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION GUIDELINES.
11. PROTECT INSTALLED PRODUCT AND FINISH SURFACES FROM DAMAGE DURING CONSTRUCTION AS REQUIRED.
12. PLACE A SAND PAD/LEVELING COURSE OVER THE PREPARED SUBSTRATE, 2" (50 MM) THICKNESS MINIMUM. LEVEL TO +–1/2" PER 10 FOOT HORIZONTAL.
13. AT TIME OF MATERIAL DELIVERY, VERIFY IDENTIFICATION MARKS ON FACE OF THE PRODUCT. USE MATERIAL OF PROPER TYPE ONLY AND AS SPECIFIED. FIELD SAMPLING AND TESTING OF THE EPS FORMWORK WILL BE AS SPECIFIED BY THE ENGINEER. PROPERTIES OF DENSITY AND COMPRESSIVE RESISTANCE SHALL BE VERIFIED IN ACCORDANCE WITH THE SPECIFICATION.
14. BLOCKS OF EPS FORMWORK SHOULD BE PLACED TIGHTLY ON THE PREPARED SAND PAD/LEVELING COURSE (SAND MUST NOT BE FROZEN). IF MULTIPLE LAYERS OF EPS FORMWORK ARE REQUIRED, ORIENT SUCCESSIVE LAYERS OF BLOCKS AT 90° TO PREVIOUS LAYER. OFFSET BLOCK JOINTS BETWEEN LAYERS.

TYPICAL FOUNDATION PLAN NOTES

1. REFERENCE FINISH SLAB ELEVATION VARIES W.R.T. REF. ELEV. 0'–0", SEE PLAN FOR REFERENCE FINISH SLAB ELEVATIONS.
2. (#'–#") INDICATES TOP OF FOOTING ELEVATION. TOP OF FOOTING ELEVATION VARIES W.R.T. REF. ELEVATION 0'–0". SEE PLAN FOR TOP OF FOOTING ELEVATIONS W.R.T. REF. ELEVATION 0'–0".
3. FOUNDATION MEMBERS ARE DESIGNATED AS FOLLOWS:
   SF/F#.# FOOTING MARK (SEE FOOTING SCHEDULE)
   P# PIER MARK (SEE PIER SCHEDULE)
4. COORDINATE WITH ARCH, MECH, ELEC, AND PLUMBING DRAWINGS FOR FLOOR SLOPES, DRAINS, OPENINGS, DEPRESSIONS, ETC., NOT SHOWN ON THIS PLAN.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
6. FOR GENERAL STRUCTURAL NOTES, REFER TO S0.0 & S0.1.
7. REFER TO TYPICAL FOUNDATION DETAILS ON DRAWINGS S3.0 & S3.1.
8. ALL WALL FOOTINGS SHALL BE INSTALLED CENTERED ON FOUNDATION WALL U.N.O.
9. TYPICAL MASONRY WALL REINFORCING = #5 @ 32"O.C., GROUT REINFORCED CORES AND ALL CMU BELOW GRADE SOLID. PROVIDE FOOTING DOWELS TO MATCH SIZE & SPACING OF WALL REINFORCING.
10. G.C. TO SUBMIT C.J. LAYOUT FOR APPROVAL FOR SLAB ON GRADE WORK. REFER TO TYPICAL DETAILS ON S3.0 AND NOTES FOR PREPARATION OF LAYOUT.
11. REFER TO SITE/CIVIL DRAWINGS FOR EXTERIOR SITE GRADES. THIS FOUNDATION PLAN PREPARED ACCORDING TO GRADING PLAN PREPARED BY ELA SPORT ATHLETIC FACILITIES DESIGN & CONSULTING, DATED OCTOBER, 2024. FOUNDATION DESIGN MAY CHANGE BASED ON FINAL SITE/CIVIL DRAWINGS.
12. EXISTING CONSTRUCTION SHOWN THUS, ——— ——— ———, TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
13. ALL TEMPORARY SHORING SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF FTG. EXTENSIONS & FTG. UNDERPINNING. ALL FTG. EXTENSIONS & FTG. UNDERPINNING WORK SHALL BE COMPLETED PRIOR TO WORK OF NEW PRESS BOX & MECHANICAL MEZZANINE.



2 / S1.0 = HOME BLEACHER – FOUNDATION PLAN
SCALE: 1/8" = 1'–0"

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Together We Can!

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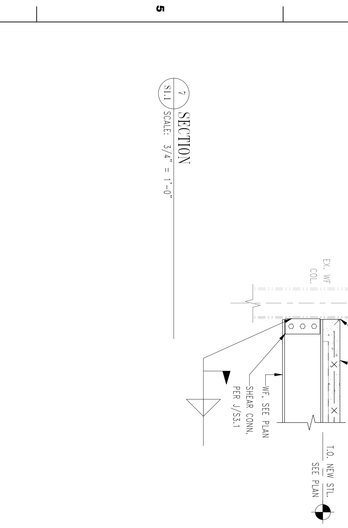
SHEET TITLE:

FOUNDATION PLANS

SHEET NUMBER:

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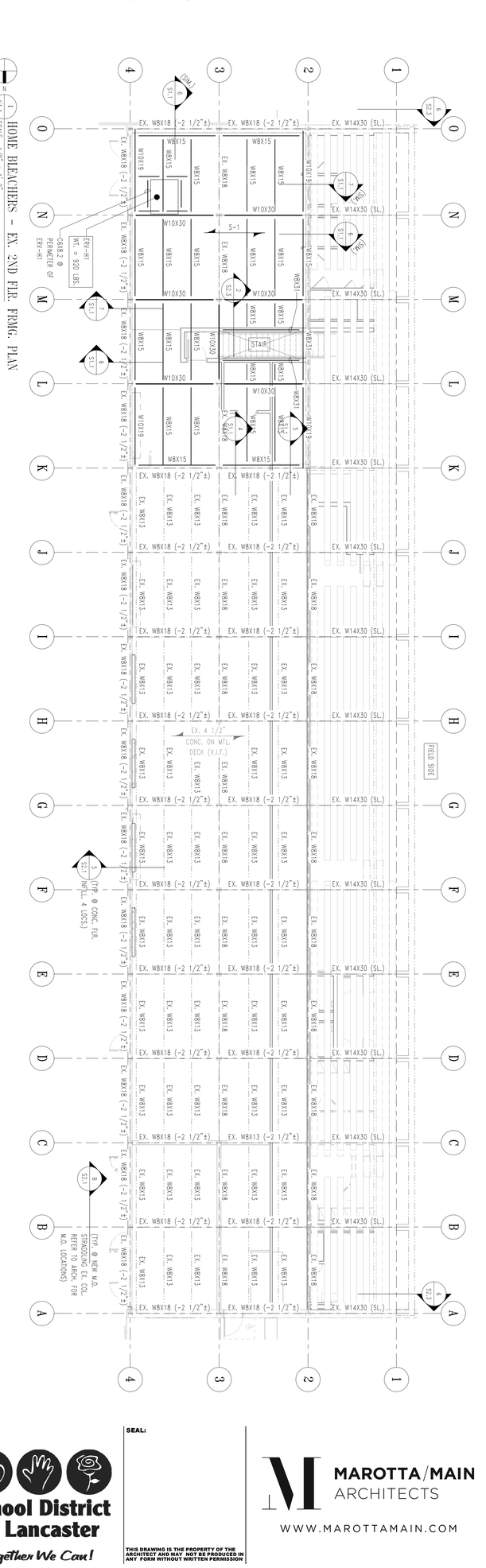


1 S1.1 SECTION
SCALE: 3/4" = 1'-0"

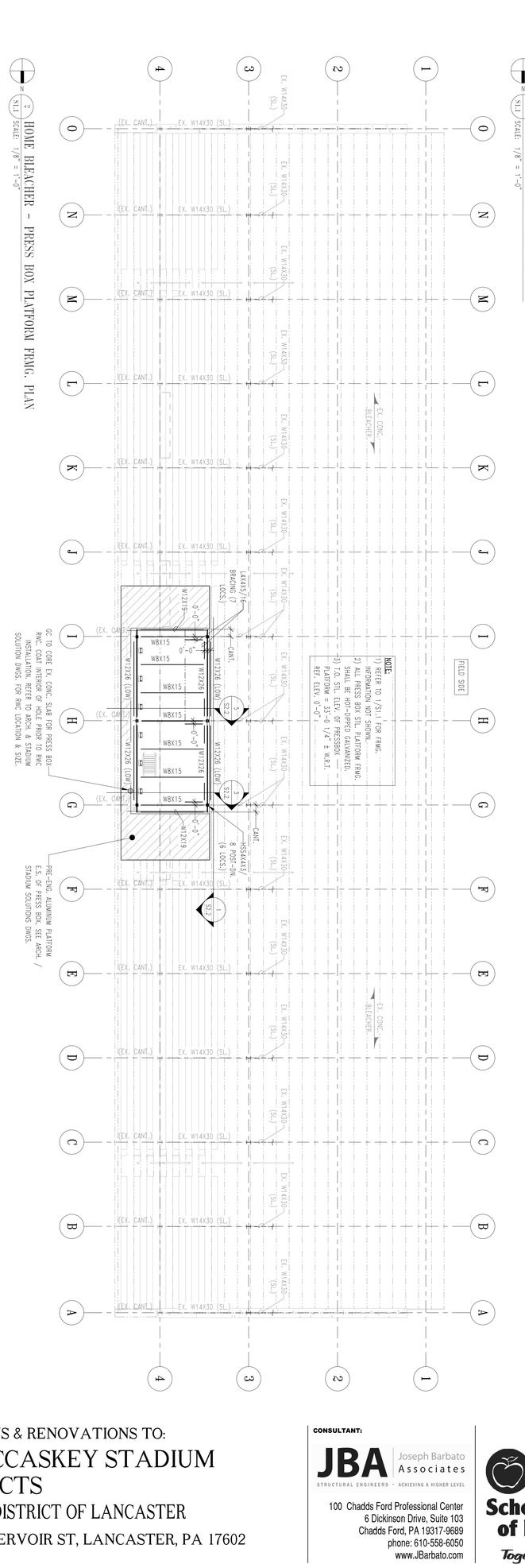
3 S1.1 SECTION
SCALE: 3/4" = 1'-0"

6 S1.1 SECTION
SCALE: 3/4" = 1'-0"

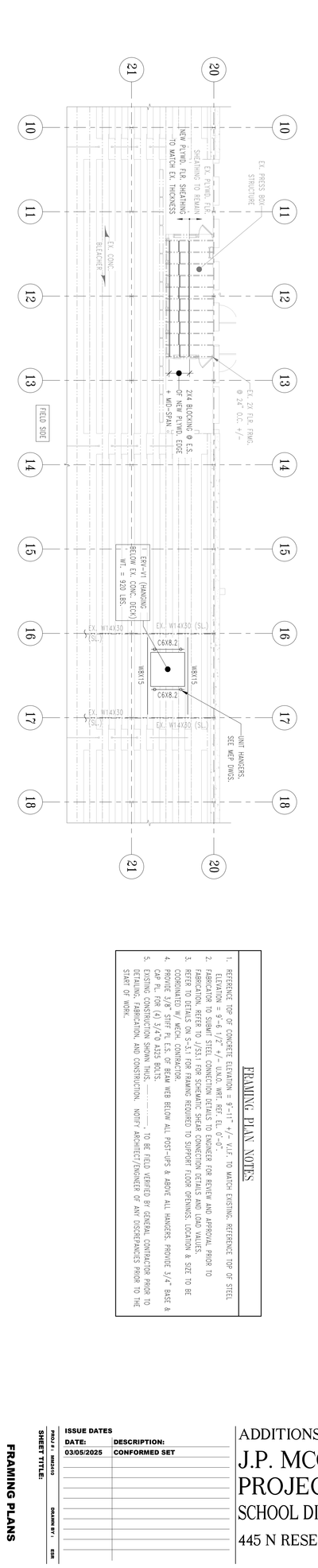
7 S1.1 SECTION
SCALE: 3/4" = 1'-0"



1 S1.1 HOME BLEACHERS – EX. 2ND FLR. FRMG. PLAN
SCALE: 1/8" = 1'-0"



2 S1.1 HOME BLEACHER – PRESS BOX PLATFORM FRMG. PLAN
SCALE: 1/8" = 1'-0"



3 S1.1 VISITOR BLEACHERS – EX. FRAMING PLAN
SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES

1. REFERENCE TOP OF CONCRETE ELEVATION = 9'-1" +/- V.I.F. TO MATCH EXISTING. REFERENCE TOP OF STEEL ELEVATION = 9'-6 1/2" +/- U.N.O. WRT. REF. EL. 0'-0".
2. FABRICATOR TO SUBMIT STEEL CONNECTION DETAILS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. REFER TO 1/SS.1 FOR SCHEMATIC SHEAR CONNECTION DETAILS AND LOAD VALUES.
3. REFER TO DETAILS ON S-5.1 FOR FRAMING REQUIRED TO SUPPORT FLOOR OPENINGS. LOCATION & SIZE TO BE COORDINATED W/ MECH. CONTRACTOR.
4. PROVIDE 3/8" STIFF PL. E.S. OF BEAM WEB BELOW ALL POST-UPS & ABOVE ALL HANGERS. PROVIDE 3/4" BASE & CAP PL. FOR (4) 5/4"Ø A325 BOLTS.
5. EXISTING CONSTRUCTION SHOWN THUS: ——— TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

ADDITIONS & RENOVATIONS TO:

J.P. MCCASKEY STADIUM PROJECTS

SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602

CONSULTANT:

JBA Joseph Barbato Associates
STRUCTURAL ENGINEERS · ACHIEVING A HIGHER LEVEL

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School District of Lancaster
Together We Can!

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PROJ # M82410
DRAWN BY: ESR

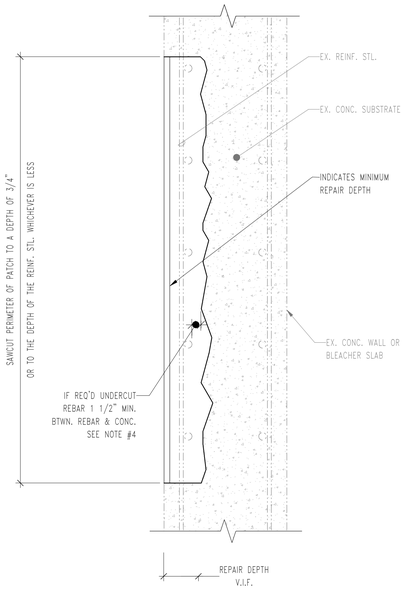
SHEET TITLE:

FRAMING PLANS

SHEET NUMBER:

S1.1

CONFORMED SET

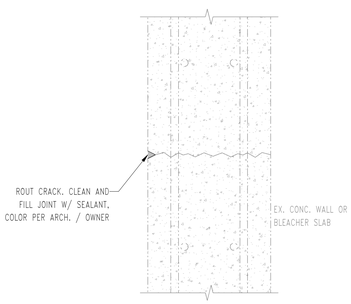


SPALL REPAIR PROCEDURE:

1. SOUND CONCRETE AND LAYOUT AREA TO BE REPAIRED. REPAIRS SHALL BE SQUARE OR RECTANGULAR IN SHAPE.
2. SAWCUT PERIMETER OF PATCH TO A DEPTH OF 3/4" OR TO THE DEPTH OF THE REINFORCING STEEL WHICHEVER IS LESS.
3. CHIP OUT AND REMOVE DETERIORATED AND DELAMINATED CONCRETE TO SOUND CONCRETE.
4. IF REBAR IS EXPOSED AND CORROSION IS PRESENT, CHIP OUT A MINIMUM 1 1/2" CLEARANCE AROUND AND BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE.
5. CONCRETE REMOVALS SHALL EXTEND ALONG REBARS TO LOCATIONS ALONG THE BAR, FREE OF BOND INHIBITING CORROSION, AND WHERE THE BAR IS WELL BONDED TO SURROUNDING CONCRETE.
6. SANDBLAST CLEAN EXISTING CONCRETE AND REBAR TO REMOVE ALL RUST, OXIDES AND SCALE.
7. COAT REBAR W/ 2 COATS OF SIKA ARMATEC 110 EPOCEM.
8. AT THE TIME OF APPLICATION, SATURATE SUBSTRATE SURFACE WITH CLEAN WATER. SUBSTRATE SHOULD BE SATURATED SURFACE DRY (SSD).
9. WHILE THE SURROUNDING CONCRETE IS IN A SSD STATE, INSTALL A SLURRY SCRUB COAT OF THE REPAIR MATERIAL INTO THE PORES AND VOIDS OF THE EXISTING CONCRETE.
10. IMMEDIATELY FOLLOWING THE SCRUB COAT, PLACE THE REPAIR MATERIAL INTO THE PREPARED AREA. REPAIR MATERIAL TO BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS COLOR SELECTION BY OWNER / ENGR.

A. HORIZONTAL REPAIRS – SIKAQUICK 1000:
   1. FROM 1/4" TO 2" DEEP – NO ADDED STONE
   2. FROM 2" TO 6" DEEP – 25 LBS OF 3/8" STONE PER BAG CAN ALSO BE USED FOR FORM AND POUR REPAIRS AS NEEDED
B. VERTICAL & OVERHEAD REPAIRS – SIKAQUICK VOH:
   1. FROM 1/8" TO 3" DEEP PER LIFT

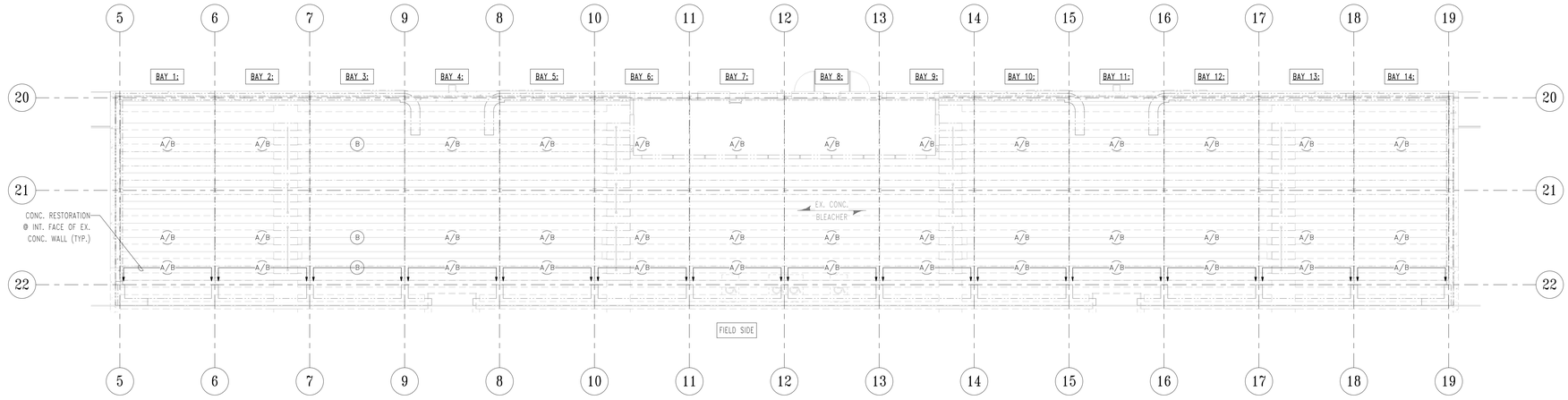
A / S1.2 TYPICAL CONCRETE SPALL REPAIR
SCALE: N.T.S.



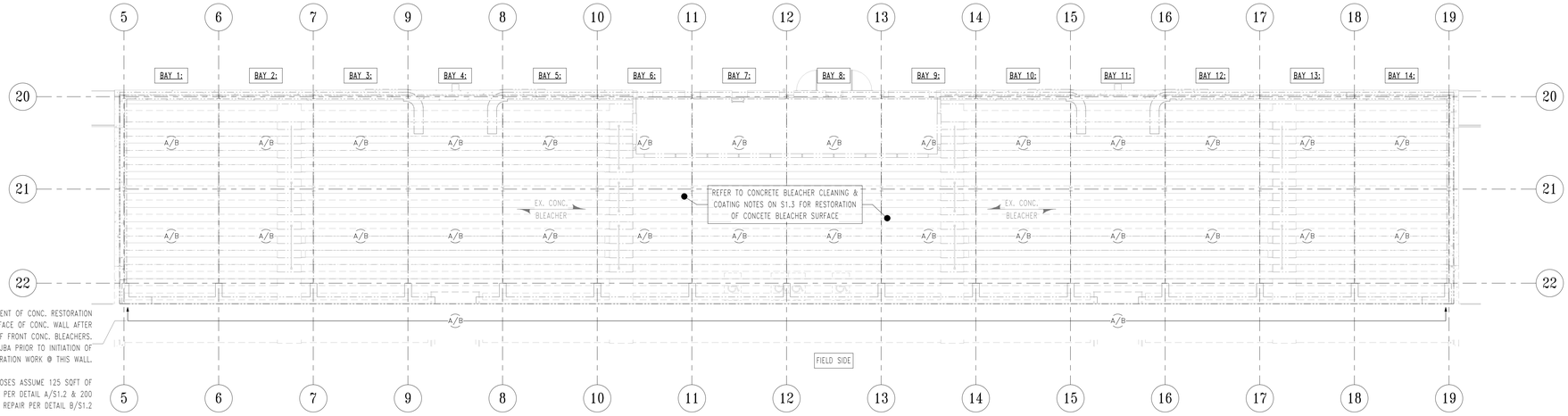
CRACK REPAIR PROCEDURE:

1. ROUT CRACKS OVER 1/16" UP TO 1" WIDE AT CENTER TO FORM A GROOVE, MIN. 1/2" WIDE AND MIN. 1/2" DEEP. GRIND UNEVEN SURFACES. CRACKS LESS THAN 1/16" WIDE SHOULD NOT BE ROUTED AND SEALED AND WILL BE ADDRESSED BY THE DECK COATING.
2. CLEAN JOINT. REMOVE DUST, FOREIGN PARTICLES, AND BOND INHIBITING MATERIAL FROM SURFACE BY AIR OR SAND BLASTING AS REQ'D.
3. INSTALL SIKAFLEX-2C NS EZ MIX EVENLY WITH ADJACENT SURFACE, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COLOR TO BE SELECTED BY OWNER / ARCH.
4. CONTRACTOR SHALL SUBMIT CONCRETE REPAIR MATERIALS FOR REVIEW PRIOR TO START OF WORK.

B / S1.2 TYPICAL CONCRETE CRACK REPAIR DETAIL
SCALE: N.T.S.



N / 1 / S1.2 VISITOR BLEACHER – UNDER SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"



NOTE: FOR BID PURPOSES ASSUME 125 SQFT OF CONC. SPALL REPAIR PER DETAIL A/S1.2 & 200 LFT OF CONC. CRACK REPAIR PER DETAIL B/S1.2

N / 2 / S1.2 VISITOR BLEACHER – TOP SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"

SCHEDULE OF RESTORATION WORK: 2/S1.2 TOP SIDE OF CONC.

LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:	LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:
BAY 1	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 8	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	111 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	89 LFT	B/S1.2
BAY 2	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 9	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	111 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	89 LFT	B/S1.2
BAY 3	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 10	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	111 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	89 LFT	B/S1.2
BAY 4	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 11	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	100 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	78 LFT	B/S1.2
BAY 5	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 12	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	89 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	67 LFT	B/S1.2
BAY 6	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 13	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	89 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	67 LFT	B/S1.2
BAY 7	A	CONCRETE SPALL REPAIR	3 SQFT	A/S1.2	BAY 14	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	89 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	67 LFT	B/S1.2
TOTAL REPAIR	A	CONCRETE SPALL REPAIR							38 SQFT
	B	CONCRETE CRACK REPAIR							1246 LFT

SCHEDULE OF RESTORATION WORK: 1/S1.2 UNDER SIDE OF CONC.

LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:	LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:
BAY 1	A	CONCRETE SPALL REPAIR	16 SQFT	A/S1.2	BAY 8	A	CONCRETE SPALL REPAIR	18 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	14 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	28 LFT	B/S1.2
BAY 2	A	CONCRETE SPALL REPAIR	16 SQFT	A/S1.2	BAY 9	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	8 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	31 LFT	B/S1.2
BAY 3	A	CONCRETE SPALL REPAIR	–	A/S1.2	BAY 10	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	12 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	33 LFT	B/S1.2
BAY 4	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2	BAY 11	A	CONCRETE SPALL REPAIR	13 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	25 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	5 LFT	B/S1.2
BAY 5	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2	BAY 12	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	16 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	52 LFT	B/S1.2
BAY 6	A	CONCRETE SPALL REPAIR	2 SQFT	A/S1.2	BAY 13	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	26 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	46 LFT	B/S1.2
BAY 7	A	CONCRETE SPALL REPAIR	7 SQFT	A/S1.2	BAY 14	A	CONCRETE SPALL REPAIR	6 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	35 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	43 LFT	B/S1.2
TOTAL REPAIR	A	CONCRETE SPALL REPAIR							99 SQFT
	B	CONCRETE CRACK REPAIR							374 LFT

TYPICAL PLAN NOTES:

1. RESTORATION QUANTITIES SHOWN ARE FOR AREAS SHOWN ON THE REPAIR PLAN NOTED ONLY.
2. ◯ ITEM NOTED ON PLAN REPRESENTS APPROXIMATE QUANTITY OF REPAIR. CONTRACTOR SHALL SOUND THE CONCRETE SURFACES AND LAY-OUT REPAIR AREAS & IDENTIFY QUANTITIES FOR JBA TO REVIEW AND CONFIRM PRIOR TO START OF WORK.
3. RESTORATIONS CONTRACTOR SHALL VISIT THE SITE TO REVIEW QUANTITIES & SCOPE OF WORK PRIOR TO SUBMITTING BID.

* NOTES ARE APPLICABLE FOR SCHEDULES 1 & 2/S1.2.

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ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
CONCRETE RESTORATION WORK - VISITOR BLEACHER

SHEET NUMBER:
S1.2

CONFORMED SET

4/22/2025 8:06:24 AM

SCHEDULE OF RESTORATION WORK: 1/S1.3 UNDER SIDE OF CONC.

LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:	LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:
BAY 1	A	CONCRETE SPALL REPAIR	33 SQFT	A/S1.2	BAY 8	A	CONCRETE SPALL REPAIR	17 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	66 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	58 LFT	B/S1.2
BAY 2	A	CONCRETE SPALL REPAIR	33 SQFT	A/S1.2	BAY 9	A	CONCRETE SPALL REPAIR	42 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	66 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	83 LFT	B/S1.2
BAY 3	A	CONCRETE SPALL REPAIR	33 SQFT	A/S1.2	BAY 10	A	CONCRETE SPALL REPAIR	50 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	83 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	9 LFT	B/S1.2
BAY 4	A	CONCRETE SPALL REPAIR	33 SQFT	A/S1.2	BAY 11	A	CONCRETE SPALL REPAIR	17 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	116 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	50 LFT	B/S1.2
BAY 5	A	CONCRETE SPALL REPAIR	17 SQFT	A/S1.2	BAY 12	A	CONCRETE SPALL REPAIR	25 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	116 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	108 LFT	B/S1.2
BAY 6	A	CONCRETE SPALL REPAIR	33 SQFT	A/S1.2	BAY 13	A	CONCRETE SPALL REPAIR	25 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	75 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	83 LFT	B/S1.2
BAY 7	A	CONCRETE SPALL REPAIR	42 SQFT	A/S1.2	BAY 14	A	CONCRETE SPALL REPAIR	14 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	33 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	132 LFT	B/S1.2
TOTAL REPAIR	A	CONCRETE SPALL REPAIR	414 SQFT						
	B	CONCRETE CRACK REPAIR	1,078 LFT						

SCHEDULE OF RESTORATION WORK: 1/S1.3 TOP SIDE OF CONC.

LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:	LOCATION:	KEY:	REPAIR TYPE:	QUANTITY:	DETAIL:
BAY 1	A	CONCRETE SPALL REPAIR	6 SQFT	A/S1.2	BAY 8	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	213 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	171 LFT	B/S1.2
BAY 2	A	CONCRETE SPALL REPAIR	6 SQFT	A/S1.2	BAY 9	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	213 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	171 LFT	B/S1.2
BAY 3	A	CONCRETE SPALL REPAIR	6 SQFT	A/S1.2	BAY 10	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	213 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	171 LFT	B/S1.2
BAY 4	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2	BAY 11	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	192 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	149 LFT	B/S1.2
BAY 5	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2	BAY 12	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	171 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	128 LFT	B/S1.2
BAY 6	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2	BAY 13	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	171 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	128 LFT	B/S1.2
BAY 7	A	CONCRETE SPALL REPAIR	5 SQFT	A/S1.2	BAY 14	A	CONCRETE SPALL REPAIR	4 SQFT	A/S1.2
	B	CONCRETE CRACK REPAIR	171 LFT	B/S1.2		B	CONCRETE CRACK REPAIR	128 LFT	B/S1.2
TOTAL REPAIR	A	CONCRETE SPALL REPAIR	69 SQFT						
	B	CONCRETE CRACK REPAIR	2390 LFT						

CONCRETE BLEACHER CLEANING & COATING NOTES:

SURFACE PREPARATION:

- ALL AREAS W/ EXISTING COATING SHALL BE CLEANED BY WATER BLASTING W/ A MINIMUM OF 5000 PSI & PREPARED TO ACHIEVE A LAITANCE & CONTAMINANT-FREE SURFACE. CLEANING MAY BE ACHIEVED W/ EQUIVALENT MECHANICAL MEANS SUCH AS LIGHT CUP WHEEL GRINDING. SURFACES MUST BE THOROUGHLY CLEANED FREE OF ALL LOOSE PARTICULATES THAT MAY INTERFERE W/ BONDING.
- ALL EXPOSED BARE CONCRETE & NEWLY REPAIRED CONCRETE PATCHES SHALL BE CLEANED & PREPARED TO ACHIEVE A LAITANCE, OPEN-TEXTURED, & CONTAMINANT-FREE SURFACE BY MECHANICAL MEANS. THE DESIRED SURFACE TEXTURE OF ALL EXPOSED SIST BARE CONCRETE & NEWLY REPAIRED CONCRETE SHALL HAVE A SURFACE TEXTURE OF CSP 3 PER ICRI GUIDELINES. IN ADDITION, THE SUBSTRATE SURFACE SHALL BE THOROUGHLY CLEANED BY BLOWING/VACUUMING TO REMOVE ALL PARTICULATES THAT MAY INTERFERE W/ BONDING.

DETAILING CRACKS & JOINTS:

- AS PER THE MOST RECENT PRODUCT DATA SHEET FOR THE SIKALASTIC-726 BALCONY ONE SHOT.

PRIMING

- ALL SURFACE AREAS TO BE COATED SHALL BE PRIMED W/ **SIKADUR 22 LOMOD FS.** APPLY W/ A FLAT SQUEEGEE OR ROLLER AT APPROXIMATELY 160 SF/GAL. APPLY EVENLY W/OUT PUDDLING. ALLOW PRIMER TO CURE UNTIL TACK-FREE, TYPICALLY 2-4 HOURS (AT 75°F ~ 50 % R. H). SIKADUR®-22 LO-MOD FS SHALL BE OVERCOATED W/IN 36 HOURS AFTER TACK-FREE.

COATING

- APPLY SIKALASTIC®-726 BALCONY ONE SHOT AT 37 SF/GAL TO YIELD 38 WFT USING A NOTCHED SQUEEGEE OR TROWEL (RECOMMEND: 1/4" V-NOTCHED SQUEEGEE OR TROWEL) & BACKROLL USING A PHENOLIC RESIN CORE ROLLER (3/8"). THE AREA SHALL BE BACK ROLLED (2) TIMES, (1) PERPENDICULAR TO THE OTHER.
- EXTEND COATING OVER ENTIRE AREA INCLUDING PREVIOUSLY DETAILED CRACKS & JOINTS.
- COATING SHALL BE TACK-FREE AFTER ABOUT 6 HOURS AT 70 °F & 50 % RH. ALLOW COATING TO CURE FOR A MINIMUM OF 8 HOURS BEFORE OPENING TO PEDESTRIAN TRAFFIC.

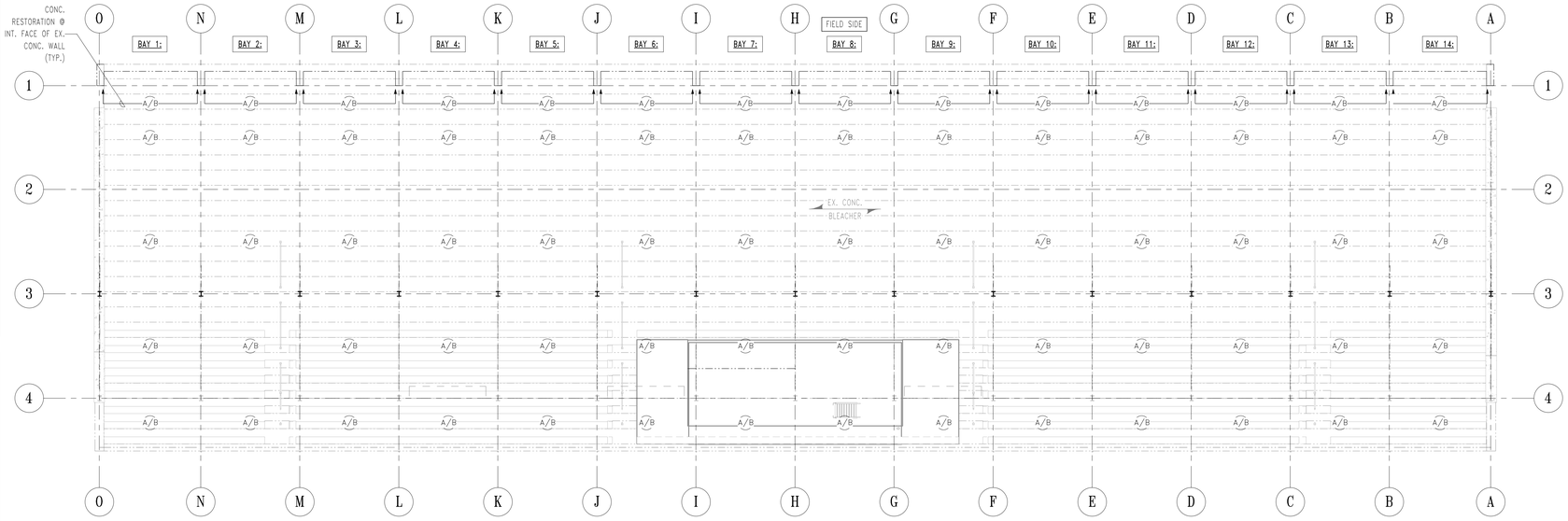
SAMPLE & ADHESIONS TEST

- A MINIMUM 5'-0"X5'-0" SAMPLE OF THE COMPLETE TRAFFIC COATING SYSTEM SHALL BE PROVIDED ON-SITE BY THE INSTALLER PRIOR TO START OF THE COATING INSTALLATION. THE PURPOSE OF THIS SAMPLE IS TO APPROVE THE MEANS & METHODS OF SURFACE PREPARATION THAT WILL BE UTILIZED & TO ENSURE DESIRED APPEARANCE & WORKMANSHIP OF THE OF THE FINISHED PRODUCT.
- THE MANUFACTURER WILL BE PRESENT DURING THE INSTALLATION OF THE SAMPLES & CONDUCT A FIELD ADHESION TEST TO ENSURE THAT THE SYSTEM HAS ACHIEVED ADEQUATE BOND TO THE PREPARED SUBSTRATE.

TYPICAL PLAN NOTES:

1. RESTORATION QUANTITIES SHOWN ARE FOR AREAS SHOWN ON THE REPAIR PLAN NOTED ONLY.
2. ◯ ITEM NOTED ON PLAN REPRESENTS APPROXIMATE QUANTITY OF REPAIR. CONTRACTOR SHALL SOUND THE CONCRETE SURFACES AND LAY-OUT REPAIR AREAS & IDENTIFY QUANTITIES FOR JBA TO REVIEW AND CONFIRM PRIOR TO START OF WORK.
3. RESTORATIONS CONTRACTOR SHALL VISIT THE SITE TO REVIEW QUANTITIES & SCOPE OF WORK PRIOR TO SUBMITTING BID.

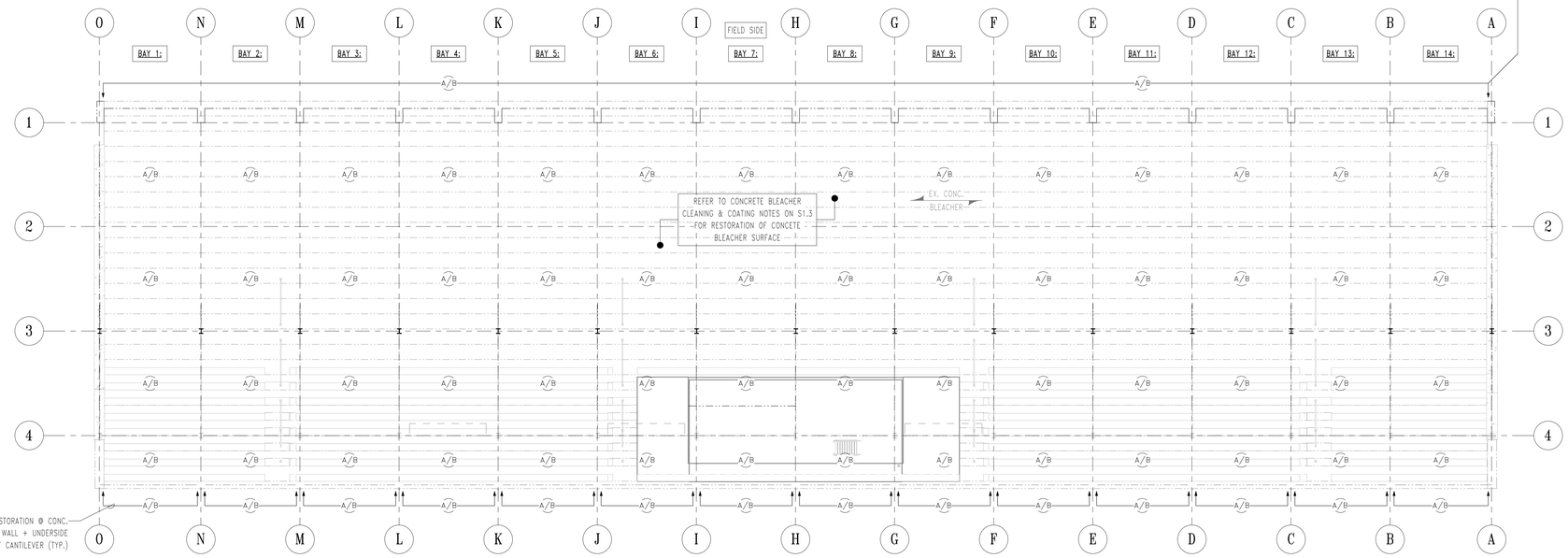
* NOTES ARE APPLICABLE FOR SCHEDULES 1 & 2/S1.3.



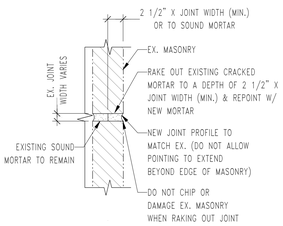
1/S1.3 HOME BLEACHER - UNDER SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"

VERIFY IN FIELD EXTENT OF CONC. RESTORATION WORK @ EXT. FACE OF CONC. WALL AFTER DEMOLITION OF FRONT CONC. BLEACHERS. CONTACT JBA PRIOR TO INITIATION OF RESTORATION WORK @ THIS WALL.

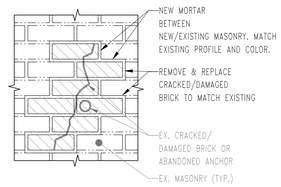
NOTE: FOR BID PURPOSES ASSUME 175 SQFT OF CONC. SPALL REPAIR PER DETAIL A/S1.2 & 200 LFT OF CONC. CRACK REPAIR PER DETAIL B/S1.2



2/S1.3 HOME BLEACHER - TOP SIDE CONC. RESTOR. PLAN
SCALE: 1/8" = 1'-0"



A/S1.3 TYP. BRICK REPOINTING DETAIL
SCALE: N.T.S.



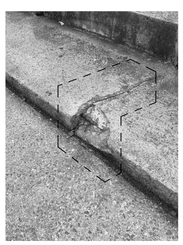
B/S1.3 TYP. BRICK REMOVAL & REPLACE. DETAIL
SCALE: N.T.S.



3/S1.3 TYP. CONC. CRACK COND. ABOVE DECK
SCALE: N.T.S.



4/S1.3 TYP. CONC. CRACK COND. BELOW DECK
SCALE: N.T.S.



5/S1.3 TYP. CONC. SPALL COND. ABOVE DECK
SCALE: N.T.S.



6/S1.3 TYP. CONC. SPALL COND. BELOW DECK
SCALE: N.T.S.

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STRUCTURAL ENGINEERS - ACHIEVING A HIGHER LEVEL
100 Chadds Ford Professional Center
6 Dickinson Drive, Suite 103
Chadds Ford, PA 19317-9689
phone: 610-558-8050
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ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

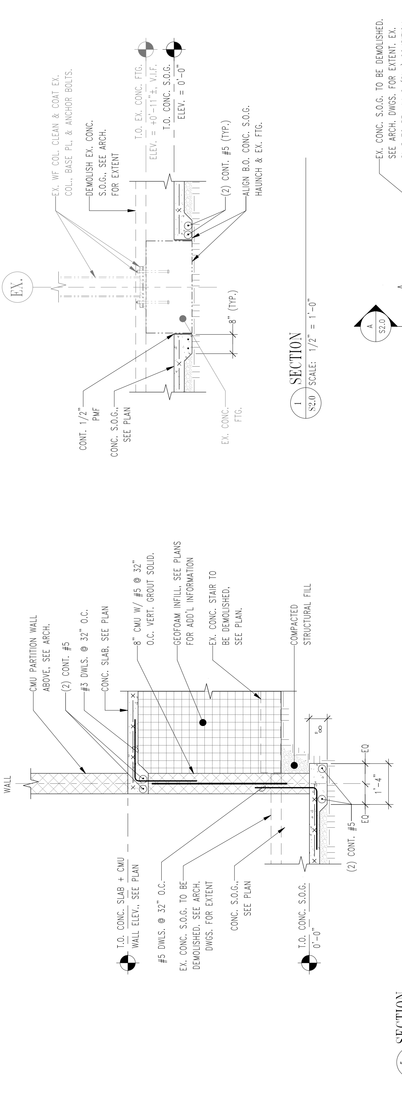
PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:
CONCRETE RESTORATION WORK - HOME BLEACHER

SHEET NUMBER:
S1.3

CONFORMED SET

4/22/2025 8:06:26 AM



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SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

PROJ #: 9M0610 DRAWN BY: ESM

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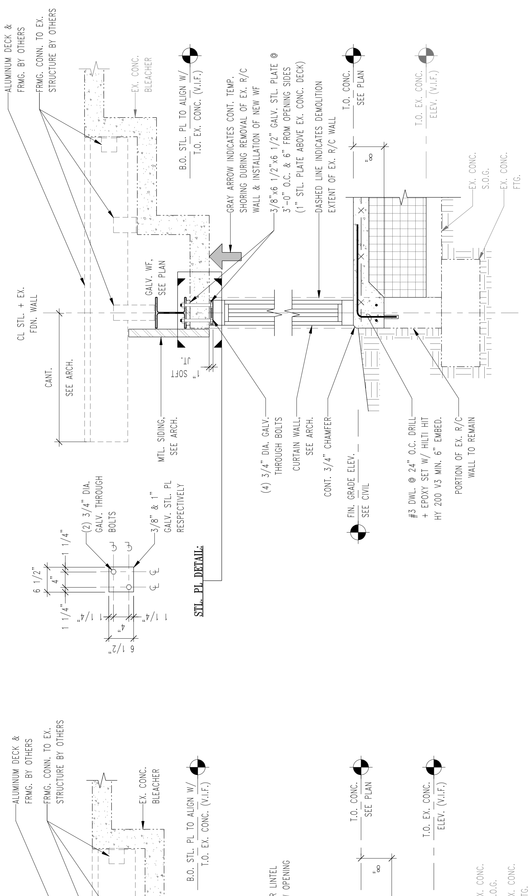
SECTION DETAILS

SHEET NUMBER:

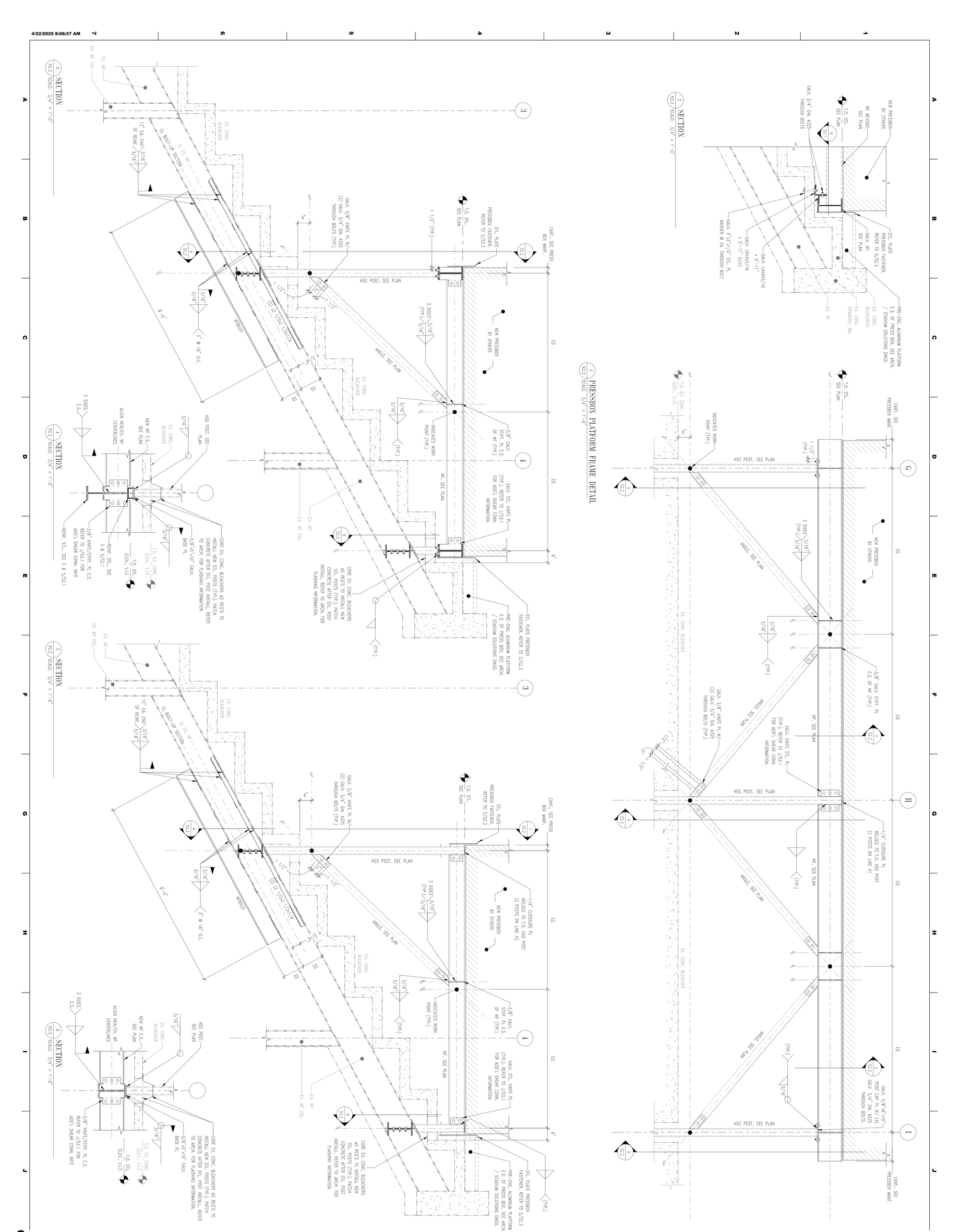
S2.0

CONFORMED SET

4/22/2025 8:06:30 AM


STL. PL DETAIL:
ANCHOR BOLT LOCATION:
SHARED BRG. STL. PL DETAIL:
SECTION
SECTION
SECTION

4/22/2025 8:06:37 AM



ADDITIONS & RENOVATIONS TO:

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SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

PROJ #: MM2410

DRAWN BY: ESR

SHEET TITLE: **SECTION DETAILS**

SHEET NUMBER: **S2.2**

CONFORMED SET

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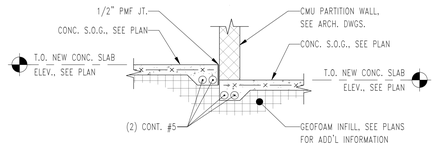
CLEAN & COAT EXPOSED PORTION OF COL. BASE PLATE STL. TYP. @ COL. LINES 4-B THROUGH 4-N



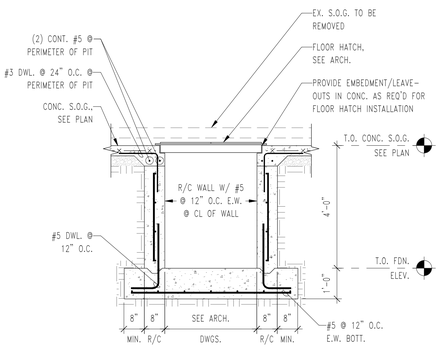
CLEAN & COAT EXPOSED PORTION OF STL. TYP. @ COL. LINES 4-B THROUGH 4-N

CLEAN & COAT EXPOSED PORTION OF STL. TYP. BETWEEN COLUMN LINES 4-A THROUGH 4-O

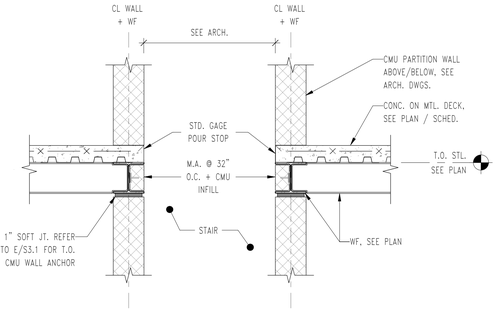
7 / S2.3 TYP. STL. CLEAN + COAT COND. - HOME BLEACHERS
SCALE: N.T.S.



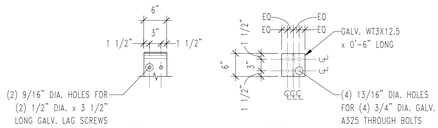
8 / S2.3 SECTION
SCALE: 1/2" = 1'-0"

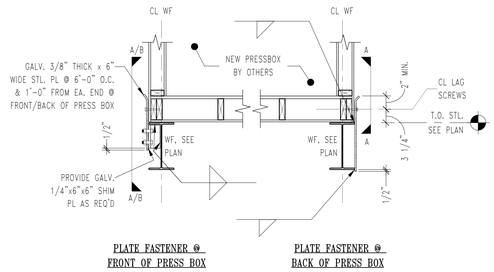


9 / S2.3 SECTION @ PIT
SCALE: 1/2" = 1'-0"

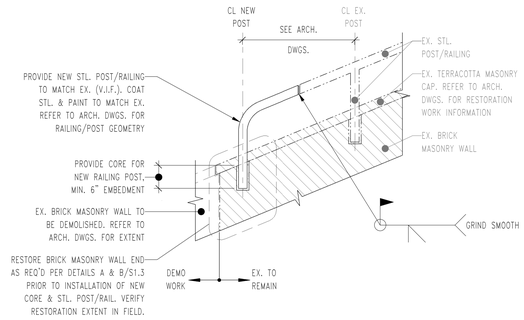


2 / S2.3 SECTION
SCALE: 3/4" = 1'-0"

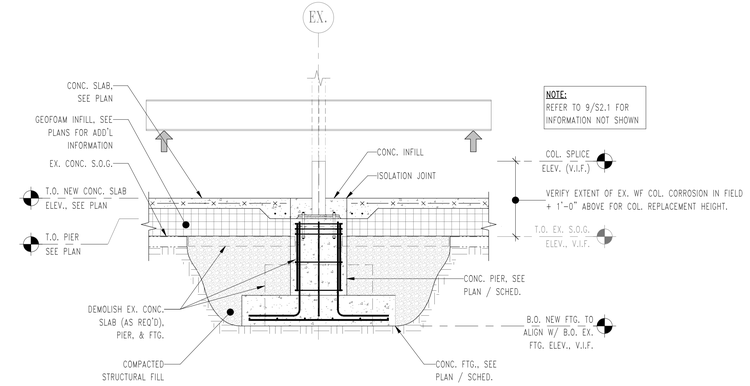




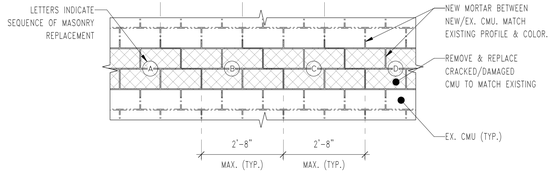
5 / S2.3 STL. PLATE PRESS BOX FASTENER DETAIL
SCALE: 3/4" = 1'-0"



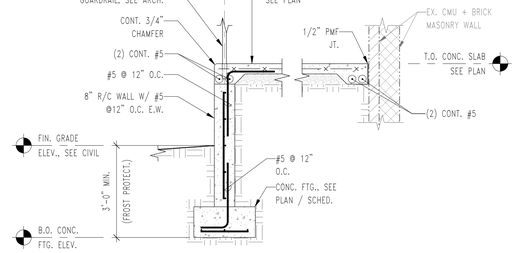
6 / S2.3 RAILING TERMINATION DETAIL
SCALE: 3/4" = 1'-0"



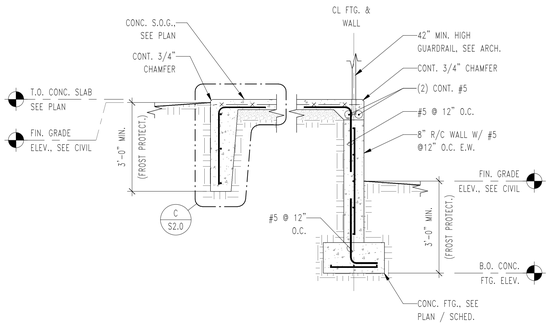
1 / S2.3 FTG. & COL. REMOVAL & REPLACEMENT DETAIL
SCALE: 1/2" = 1'-0"



1 / S2.3 TYPICAL CMU REMOVAL & REPLACEMENT DETAIL
SCALE: N.T.S.



3 / S2.3 SECTION
SCALE: 1/2" = 1'-0"



4 / S2.3 SECTION
SCALE: 1/2" = 1'-0"

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445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

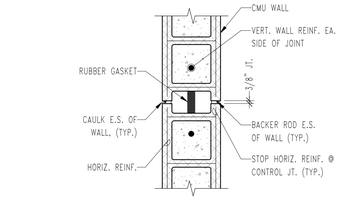
PROJ # : MM2410
DRAWN BY : ESR

SHEET TITLE:

SECTION DETAILS

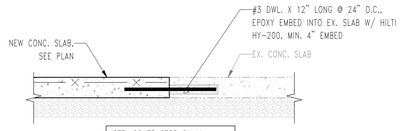
SHEET NUMBER:
S2.3

CONFORMED SET



NOTES:
1. REFER TO GENERAL NOTES & ARCH. DWGS. FOR SPACING REQUIREMENTS
2. A KEYED CMU MAY BE USED IN LIEU OF RUBBER GASKET SHOWN.

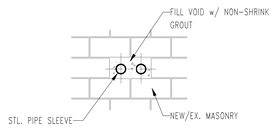
X / S3.0 TYPICAL CMU WALL CONTROL JOINT
SCALE: N.T.S.



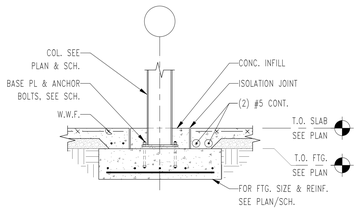
NOTE: CONTRACTOR SHALL COORD. EXTENT OF NEW SLAB INFILL W/ ARCH AND MEP DWGS.

P / S3.0 NEW TO EX. SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

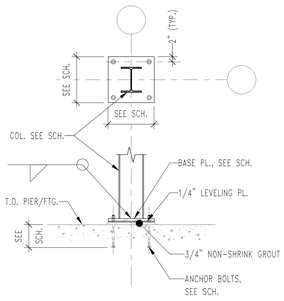
Q / S3.0 TYP. UTILITY UNDER WALL
SCALE: N.T.S.



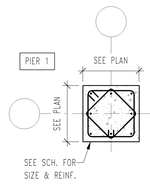
R / S3.0 TYP. UTILITY THROUGH FDN WALL
SCALE: N.T.S.



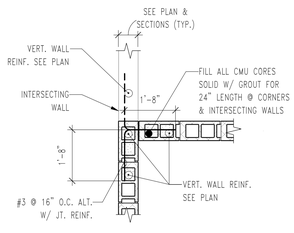
J / S3.0 TYPICAL INTERIOR COLUMN FOOTING
SCALE: N.T.S.



K / S3.0 TYPICAL COLUMN BASE PLATE
SCALE: N.T.S.

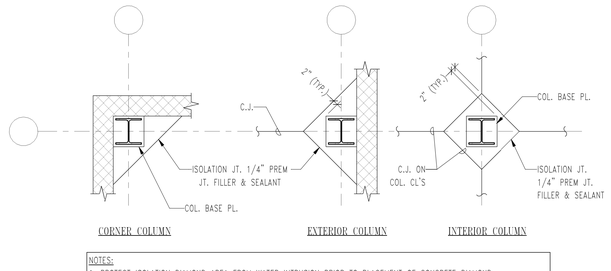


L / S3.0 TYPICAL PIER REINFORCEMENT
SCALE: N.T.S.



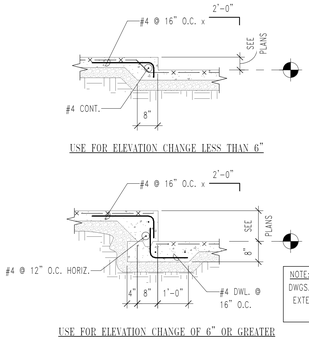
WALL SECTION @ CORNER/INTERSECTION

M / S3.0 TYPICAL CMU WALL CORNER & INTERSECTION REINF.
SCALE: N.T.S.



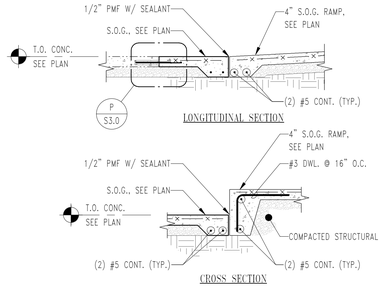
NOTES:
1. PROTECT ISOLATION DIAMOND AREA FROM WATER INTRUSION PRIOR TO PLACEMENT OF CONCRETE DIAMOND.
2. POUR CONCRETE WITHIN ISOLATION JOINT DOWN TO TOP OF PIER OR FOOTING AFTER COLUMN AND SLAB ARE INSTALLED.
3. ISOLATION JOINT SIMILAR AT PERIMETER COLUMNS.

E / S3.0 TYPICAL S.O.G. ISOLATION JOINT
SCALE: N.T.S.

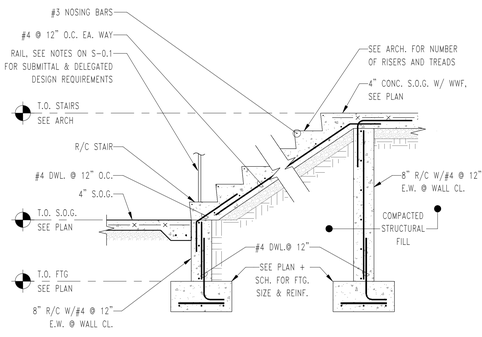


NOTE: REFER TO ARCH. DWGS. FOR LOCATION & EXTENT OF RECESSED SLABS.

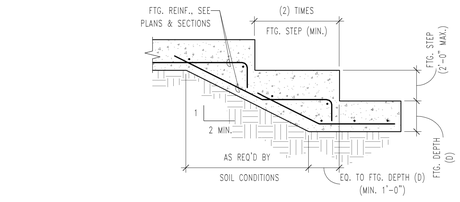
F / S3.0 TYPICAL S.O.G. RECESS
SCALE: N.T.S.



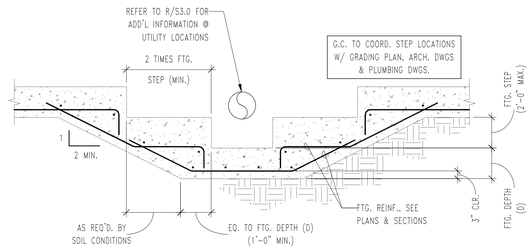
G / S3.0 TYPICAL S.O.G. RAMP
SCALE: N.T.S.



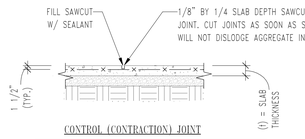
H / S3.0 TYPICAL R/C STAIR
SCALE: N.T.S.



A / S3.0 TYPICAL STEP FOOTING
SCALE: N.T.S.

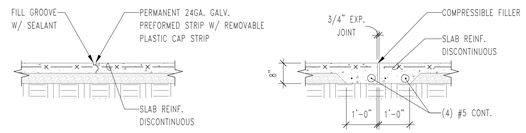


B / S3.0 TYPICAL STEP FOOTING AT UTILITY
SCALE: N.T.S.



CONTROL (CONTRACTION) JOINT

NOTE:
PROVIDE CONTROL JOINTS @ 36 TIMES (t) (12'-0"O.C. MAX.)

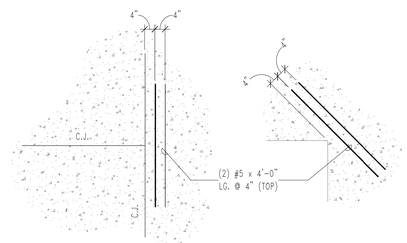


CONSTRUCTION JOINT

EXPANSION JOINT

NOTE:
CONTRACTOR TO ADEQUATELY BRACE PREFORMED STRIP TO MAINTAIN STRAIGHT ALIGNMENT OF SCREED

I / S3.0 TYPICAL S.O.G. CONTROL, CONST. & EXP. JOINTS
SCALE: N.T.S.



DISCONTINUOUS JOINT

RE-ENTRANT CORNER

D / S3.0 TYPICAL S.O.G. CRACK CONTROL
SCALE: N.T.S.

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445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025 DESCRIPTION: CONFORMED SET

PROJ # : MM2410 DRAWN BY : ESR

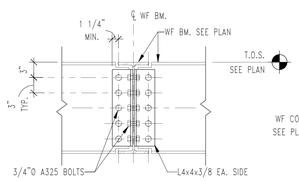
SHEET TITLE:

TYPICAL DETAILS

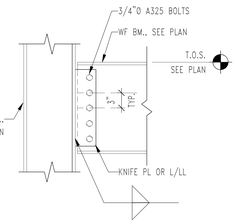
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S3.0

CONFORMED SET

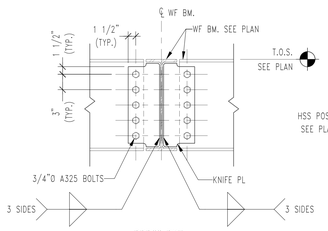
4/22/2025 8:06:43 AM



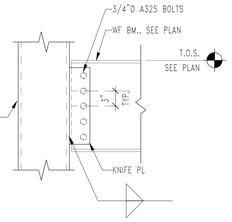
MEZZANINE:
BEAM-TO-BEAM CONNECTION



MEZZANINE:
BEAM-TO-COLUMN CONNECTION



PRESS BOX:
BEAM-TO-BEAM CONNECTION



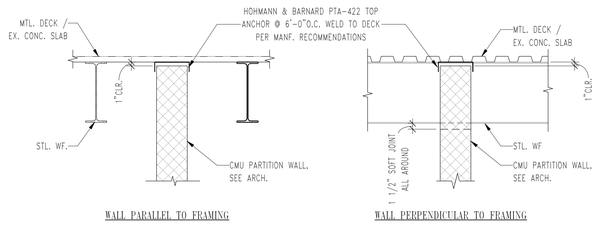
PRESS BOX:
BEAM-TO-COLUMN CONNECTION

SHEAR CONNECTION SCHEDULE

MEZZANINE (HOME BLEACHERS)				PRESS BOX (HOME BLEACHERS)				
DEPTH OF WF	ASD SHEAR DESIGN LOAD (KIPS) DL	LL	MIN. # OF BOLT ROWS	DEPTH OF WF	ASD SHEAR DESIGN LOAD (KIPS) DL	LL	LLR	MIN. # OF BOLT ROWS
8	8	5	2	8	1	3	–	2
10	8	5	2	10	–	–	–	2
12	–	–	3	12	4	3	3	3

NOTES:
1. INFORMATION SHOWN IS SCHEMATIC AND INCLUDED FOR PRICING ONLY. CONNECTIONS ARE TO BE DESIGNED BY STEEL FABRICATOR PER "STRUCTURAL STEEL NOTES" ON S-0.1 IN ACCORDANCE WITH AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES 3.1.1 "OPTION 3"
2. REFER TO PLAN FOR INSTANCES OF CONNECTION LOADS GREATER THAN TYPICAL LOADS NOTED IN SCHEDULE ABOVE.

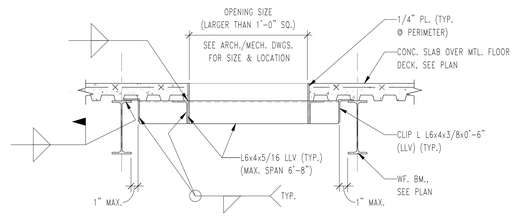
J / S3.1 TYPICAL WF SHEAR CONNECTION DETAIL
SCALE: N.T.S.



WALL PARALLEL TO FRAMING

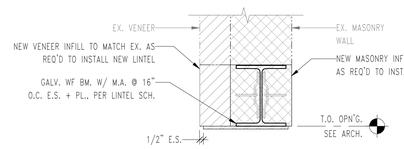
WALL PERPENDICULAR TO FRAMING

E / S3.1 TYPICAL CMU PARTITION BRACING
SCALE: N.T.S.

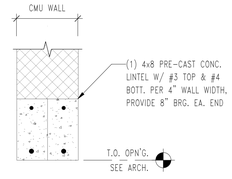


NOTE:
SUPPLY L6x4 + 1/4" PL @ PERIMETER AROUND ALL PENETRATIONS THROUGH FLOOR.

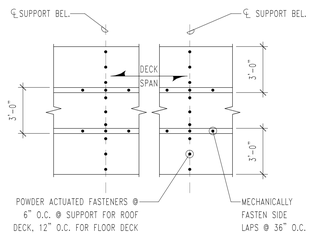
F / S3.1 TYPICAL SUPPORT @ FLOOR OPENING
SCALE: N.T.S.



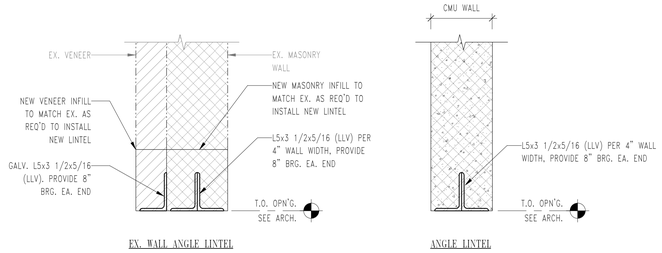
EX. WALL WF LINTEL



P.C. LINTEL



K / S3.1 TYPICAL DECK CONNECTION
SCALE: N.T.S.

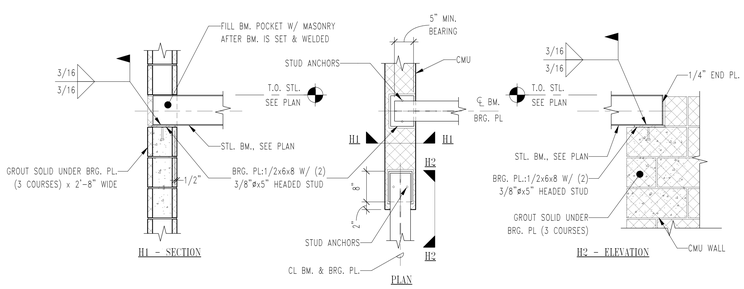


EX. WALL ANGLE LINTEL

ANGLE LINTEL

WF LINTEL

G / S3.1 TYPICAL LINTELS
SCALE: N.T.S.

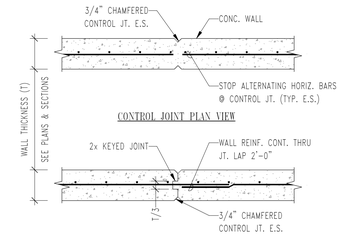


H1 - SECTION

PLAN

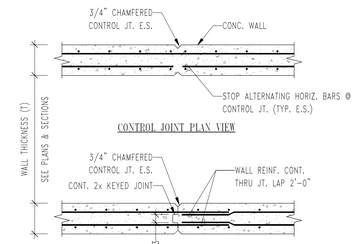
H2 - ELEVATION

H / S3.1 TYPICAL BEAM BEARING ON CMU WALL
SCALE: N.T.S.



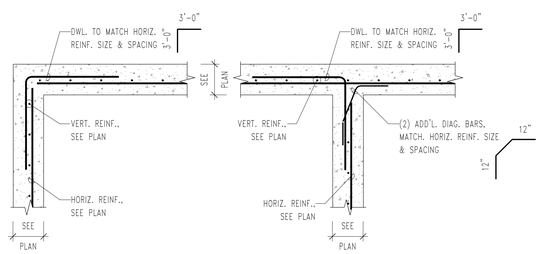
NOTES:
1. CONTRACTOR TO SUBMIT C.J. LOCATION FOR REVIEW & APPROVAL (MAX. SPACING 15'-0" O.C.)
2. SEE SECTIONS FOR WALL REINFORCEMENT

A / S3.1 TYPICAL R/C WALL JOINTS
SCALE: N.T.S.



NOTES:
1. CONTRACTOR TO SUBMIT C.J. LOCATION FOR REVIEW & APPROVAL (MAX. SPACING 15'-0" O.C.)
2. SEE SECTIONS FOR WALL REINFORCEMENT

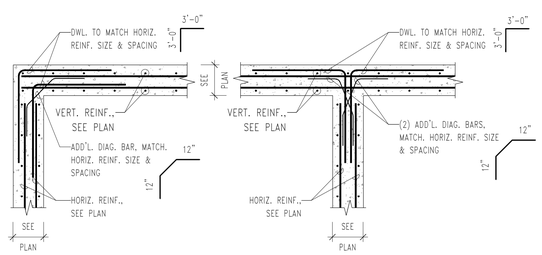
B / S3.1 TYPICAL R/C WALL JOINTS
SCALE: N.T.S.



R/C WALL REINF. @ CORNER

R/C WALL REINF. @ INTERSECTION

C / S3.1 TYPICAL R/C WALL CORNER & INTERSECTION REINF.
SCALE: N.T.S.



R/C WALL REINF. @ CORNER

R/C WALL REINF. @ INTERSECTION

D / S3.1 TYPICAL R/C WALL REINFORCEMENT
SCALE: N.T.S.

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School District of Lancaster
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ADDITIONS & RENOVATIONS TO:
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : MM2410 DRAWN BY : ESR

SHEET TITLE:

TYPICAL DETAILS

SHEET NUMBER:
S3.1

CONFORMED SET

4/22/2025 8:06:46 AM

MECHANICAL EXISTING AND DEMOLITION SYMBOL SCHEDULE

(APPLY TO ALL NEW WORK DRAWINGS)

- EXISTING DUCT TO REMAIN
- REMOVE DUCT
- CAP EXISTING DUCT
- EXISTING PIPE TO REMAIN
- REMOVE PIPE
- EXISTING PIPE CAP
- CAP EXISTING PIPE
- EXISTING DIFFUSER TO REMAIN
- REMOVE DIFFUSER
- EXISTING REGISTER TO REMAIN
- REMOVE REGISTER
- REMOVE CONVECTOR
- REMOVE CABINET HEATER
- REMOVE CABINET HEATER
- REMOVE EXHAUST FAN
- REMOVE GRAVITY VENTILATOR
- REMOVE WALL FIN
- REMOVE FAN COIL UNIT
- REMOVE AIR HANDLER
- REMOVE LOUVER
- REMOVE THERMOSTAT
- REMOVE HUMIDISTAT
- REMOVE AIR SEPARATOR
- REMOVE PUMP
- REMOVE EXPANSION TANK
- EXISTING CHILLED WATER SUPPLY/RETURN PIPING TO REMAIN
- EXISTING HOT WATER SUPPLY/RETURN PIPING TO REMAIN
- REMOVE CHILLED WATER SUPPLY/RETURN PIPING
- REMOVE HOT WATER SUPPLY/RETURN PIPING
- POINT OF DISCONNECTION, EXISTING AND DEMOLITION

NOTES:

(THESE NOTES APPLY TO ALL DEMOLITION DRAWINGS)

1. MECHANICAL CONTRACTOR SHALL REMOVE ALL HVAC EQUIPMENT SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON PLANS.

2. MECHANICAL CONTRACTOR SHALL REMOVE ALL CONTROLS, PIPING, DUCTWORK AND LOUVERS ASSOCIATED WITH HVAC EQUIPMENT TO BE REMOVED; EVEN IF NOT SHOWN ON THE PLANS.

3. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL OPENINGS TO MATCH EXISTING WHERE EQUIPMENT IS REMOVED AND NOT REPLACED OR NEW EQUIPMENT SIZE DIFFERS FROM REMOVED EQUIPMENT.

4. DEMOLITION PLANS ARE SCHEMATIC AND NOT INTENDED TO SHOW EXACT LOCATIONS OF EQUIPMENT AND MATERIALS TO BE REMOVED. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT, PIPING, DUCTWORK, CONTROLS ETC.

5. MECHANICAL CONTRACTOR SHALL REMOVE ALL SUPPORTS, PADS, ETC., ASSOCIATED WITH EQUIPMENT BEING REMOVED.

6. THESE DEMOLITION PLANS WERE PREPARED FROM ON-SITE SURVEYS AND ORIGINAL CONSTRUCTION DOCUMENTS. IN AN EFFORT TO PROVIDE THIS CONTRACTOR WITH THE GENERAL SCOPE OF THE PROJECT, THESE DEMOLITION PLANS WERE PREPARED TO SHOW AND/OR NOTE THE EXISTING CONDITIONS TO THE BEST OF THE ENGINEER'S KNOWLEDGE. IT IS STILL THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VISIT THE SITE AND INCLUDE IN THE BID ALL OTHER DEMOLITION WORK REQUIRED FOR REMOVAL OF ALL MECHANICAL EQUIPMENT. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE COMPLETE BUILDING DEMOLITION PLANS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION PHASING.

MECHANICAL NEW SYMBOL SCHEDULE

- DIFFUSER
- REGISTER
- SIDEWALL DIFFUSER
- SIDEWALL REGISTER
- EXHAUST LOUVER
- INTAKE LOUVER
- BALANCING DAMPER
- FIRE DAMPER
- ATC MOTORIZED DAMPER
- SQUARE DUCT ELBOW WITH TURNING VANES
- THERMOSTAT
- COMBINATION THERMOSTAT-HUMIDISTAT
- CO2 SENSOR
- CONTROL SWITCH
- HOT WATER SUPPLY PIPE
- HOT WATER RETURN PIPE
- CHILLED WATER SUPPLY PIPE
- CHILLED WATER RETURN PIPE
- REFRIGERANT PIPING
- CHECK VALVE
- SHUTOFF VALVE
- BALL VALVE
- 3-WAY ATC VALVE
- 2-WAY ATC VALVE
- GATE VALVE
- AIR SEPARATOR
- PRESSURE REDUCING VALVE
- BALANCING VALVE
- ROOFTOP AIR HANDLING UNIT
- INLINE EXHAUST FAN
- CEILING EXHAUST FAN
- ROOFTOP EXHAUST FAN
- ROUND GRAVITY ROOF VENTILATOR
- RECTANGULAR GRAVITY ROOF VENTILATOR
- FINNED TUBE RADIATION
- POINT OF CONNECTION NEW TO EXISTING

MECHANICAL NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

1. FOR THE HOT WATER SYSTEM, THE MECHANICAL CONTRACTOR SHALL PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN THE SYSTEM AND AT EACH UNIT AND SHALL PROVIDE DRAINS AT ALL LOW POINTS.
2. ALL REFRIGERATION PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
3. ALL REFRIGERANT PIPING SHALL BE PITCHED A MINIMUM OF 1/4" IN 10'-0" IN THE DIRECTION OF THE REFRIGERANT FLOW.
4. ALL UNDERGROUND OR CONCEALED REFRIGERATION LINES SHALL BE INSULATED WITH 1" FOAMGLAS INSULATION BY PITTSBURG-CORNING WITH PITTWRAP PROTECTIVE COVERING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
5. ALL PIPE PENETRATIONS THROUGH CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED SHALL BE PROPERLY SEALED TO MAINTAIN FIRE PROTECTION RATING.
6. ALL DUCTS THAT PENETRATE CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED SHALL BE INSTALLED WITH FIRE DAMPERS IN ACCORDANCE WITH NFPA 90A. THIS APPLIES EVEN IF THEY ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
7. PROVIDE AND INSTALL RADIATION DAMPERS ON ALL DIFFUSERS, REGISTERS AND GRILLES THAT PENETRATE CEILINGS WHICH ARE FIRE-RATED OR PART OF A FIRE-RATED ASSEMBLY.
8. ALL MATERIALS USED IN PLENUM CEILING AREAS SHALL BE PLENUM RATED AND MEET FLAME/SMOKE INDEXES OF 25/50.

GENERAL NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

1. ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL CODES, LOCAL, STATE, AND NATIONAL
3. THIS CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND SUPPORTS TO SUSPEND DUCTWORK AND EQUIPMENT.
4. ALL EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS.
5. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO ENSURE A COMPLETE SYSTEM.
6. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
7. THE MECHANICAL CONTRACTOR SHALL SEAL ALL HIS RESPECTIVE WALL AND ROOF PENETRATIONS.
8. ALL ROOF OPENINGS SHALL BE BY MECHANICAL CONTRACTOR. FLASHING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COUNTER-FLASHING WILL BE BY THE MECHANICAL CONTRACTOR.
9. THE MECHANICAL CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.
10. CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH ADEQUATE SERVICE CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
11. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING WALLS AND FLOORS FOR NEW EQUIPMENT AND MATERIALS. PATCH TO MATCH EXISTING.
12. ALL ROOFTOP EQUIPMENT REQUIRING REGULAR MAINTENANCE SHALL BE INSTALLED MINIMUM 10'-0" FROM ANY ROOF EDGE HIGHER THAN 30" ABOVE ADJACENT ROOF LEVEL OR GRADE IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE.

DUCTWORK NOTES:

(THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS)

1. ALL DUCTWORK SIZES NOTED ARE FREE AREA SIZES.
2. TURNING VANES SHALL BE PROVIDED IN ALL DUCT ELBOWS.
3. PROVIDE ALL DAMPERS, SPLITTERS, AND EXTRACTORS AS REQUIRED FOR PROPER AIR DISTRIBUTION IN GENERAL ACCORDANCE WITH THE STANDARDS OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU.
4. FURNISH AND INSTALL AS NECESSITATED BY EXISTING CONDITIONS ALL SUPPORT MATERIALS TO INSURE A RIGID INSTALLATION.
5. ALL SUPPLY AND RETURN DUCTWORK EXCEPT DOUBLE WALL SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED IN ACCORDANCE WITH THE SPECIFICATIONS.
6. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF NEW DIFFUSERS AND REGISTERS WITH SUSPENDED CEILING GRID AND LIGHTING FIXTURES TO BE INSTALLED BY THE GENERAL AND ELECTRICAL CONTRACTORS RESPECTIVELY. CEILING DIFFUSERS AND REGISTERS SHALL BE CENTERED IN GRID SYSTEM.
7. LENGTH OF FLEXIBLE DUCT BRANCHES SHALL NOT EXCEED 8' - 0" MAXIMUM. ANY ADDITIONAL LENGTH AS NEEDED FOR INDIVIDUAL CONNECTIONS SHALL BE ACCOMPLISHED WITH ROUND RIGID DUCTWORK.
8. FLEXIBLE DUCT WILL NOT BE ACCEPTABLE FOR EXHAUST FAN INSTALLATIONS.
9. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL FLEXIBLE FABRIC CONNECTIONS BETWEEN DUCTWORK AND FANS IN ORDER TO ISOLATE EQUIPMENT AND PREVENT VIBRATION.

DUCTWORK SIZE NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS)

DUCTWORK SIZES AND LOCATIONS ARE APPROXIMATE. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DUCTWORK SIZE REVISIONS AS REQUIRED TO ACCOMMODATE AVAILABLE SPACE. SIZING SHALL BE BASED ON A MAXIMUM .08" PER 100FT. OF STATIC PRESSURE AND A MAXIMUM 1100 FPM AIR VELOCITY. DUCTWORK SYSTEMS SHALL BE SIZED BASED ON AVAILABLE HVAC FAN CAPACITY.

ASBESTOS NOTE:

(THIS NOTE SHALL APPLY TO ALL MECHANICAL DRAWINGS)

IF THE CONTRACTOR FINDS ANY ASBESTOS DURING THIS CONSTRUCTION PROJECT, HE SHALL STOP WORK IMMEDIATELY AND REPORT IT TO THE ENGINEER AND THE OWNER. THE OWNER WILL THEN TAKE CARE OF THE REMOVAL OF THIS ASBESTOS.

MECHANICAL ABBREVIATIONS

(THESE ABBREVIATIONS APPLY TO ALL DRAWINGS)

DEVICES	
D	DIFFUSER
R	REGISTER
L	LOUVER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER
BD	BALANCING DAMPER
MOD	MOTOR OPERATED DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROL
HYDRONIC	
C	CONDENSATE DRAIN
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
HPS	HIGH PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
LPS	LOW PRESSURE STEAM
PC	CONDENSATE PUMPED
HSD	HUMIDIFIER STEAM DISCHARGE
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
R	REFRIGERANT PIPING
DESIGN CRITERIA	
PD	PRESSURE DROP
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
WB	WET BULB
DB	DRY BULB
AMB	AMBIENT
WPD	WATER PRESSURE DROP
APD	AIR PRESSURE DROP
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
EAT	ENTERAING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
PRV	PRESSURE REDUCING VALVE
BBD	BOILER BLOWDOWN
EQUIPMENT	
EF	EXHAUST FAN
AHU	AIR HANDLING UNIT
RTU	ROOFTOP AIR HANDLING UNIT
RTAC	ROOFTOP AIR CONDITIONING UNIT
HRU	ENERGY RECOVERY UNIT
DOAS	DEDICATED OUTDOOR AIR UNIT
AC	AIR CONDITIONER
UV	UNIT VENTILATOR
FCU	FAN COIL UNIT
PTAC	PACKAGED TERMINAL AIR CONDITIONER
CU	CONDENSING UNIT
CT	COOLING TOWER
CHL	CHILLER
B	BOILER
P	PUMP
C	CONVECTOR
CH	CABINET HEATER
ECH	ELECTRIC CABINET HEATER
FT	FINNED TUBE RADIATION
BH	BASEBOARD HEATER
EBH	ELECTRIC BASEBOARD HEATER
RP	RADIANT PANEL
UH	UNIT HEATER
EUH	ELECTRIC UNIT HEATER
ET	EXPANSION TANK
AS	AIR SEPARATOR
FPV	FAN POWERED VARIABLE AIR VOLUME BOX
VAV	VARIABLE AIR VOLUME BOX

ELECTRICAL	
FLA	FULL LOAD AMPS
MCA	MAXIMUM CURRENT AMPS
MOP	MAXIMUM OVERCURRENT PROTECTION
GA	GAUGE
GENERAL	
TYP	TYPICAL
AFF	ABOVE FINISHED FLOOR
TFB	TO FLOOR BELOW
TFA	TO FLOOR ABOVE
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
AFF	ABOVE FINISHED FLOOR
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EA	EXHAUST AIR
T.O.	TRANSFER OPENING
T.O. (E)	EXISTING TRANSFER OPENING
CLG	CEILING
ETR	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
B.O.D.	BOTTOM OF DUCT
C.O.D.	CENTER OF DUCT

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025 DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

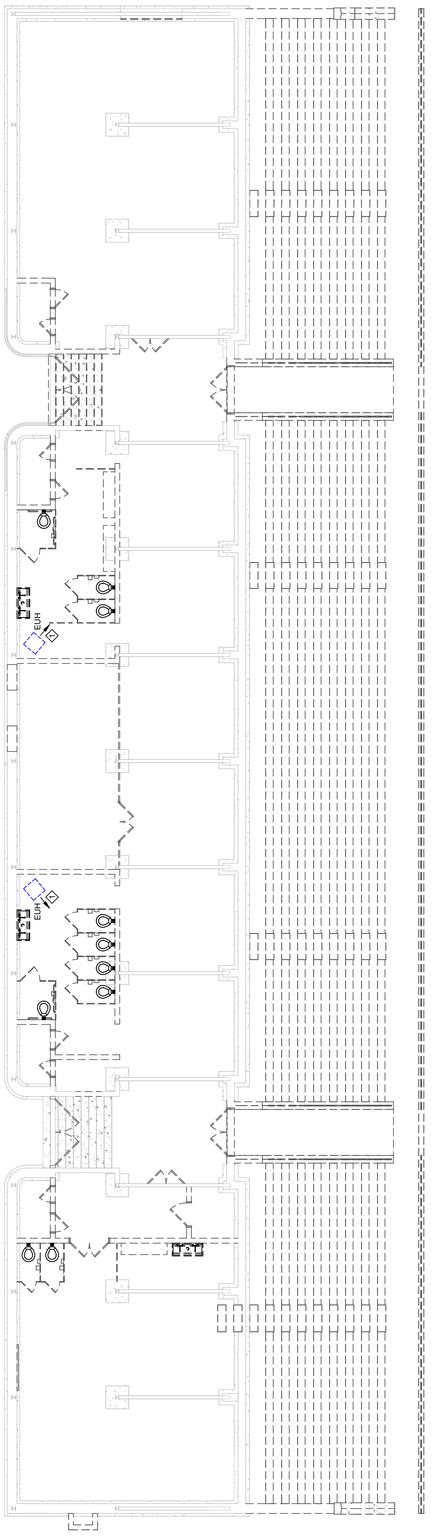
HVAC SYMBOLS

SHEET NUMBER:

H0.1

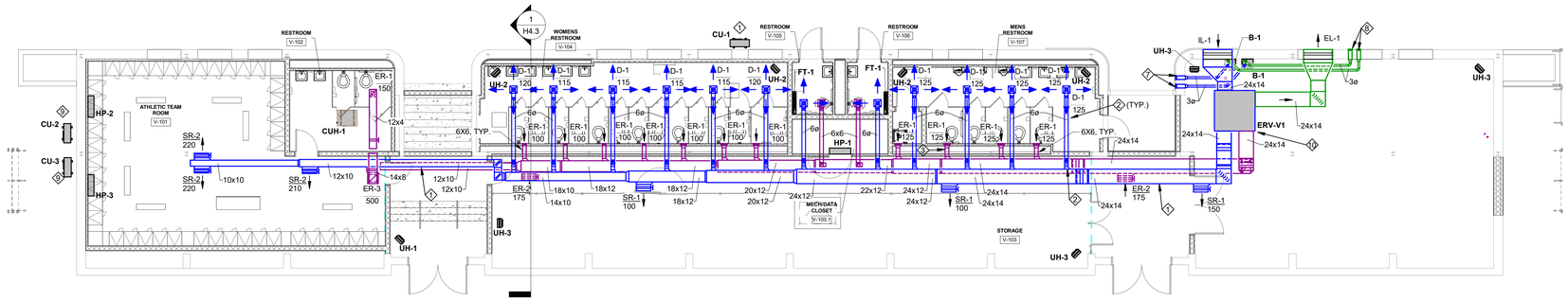
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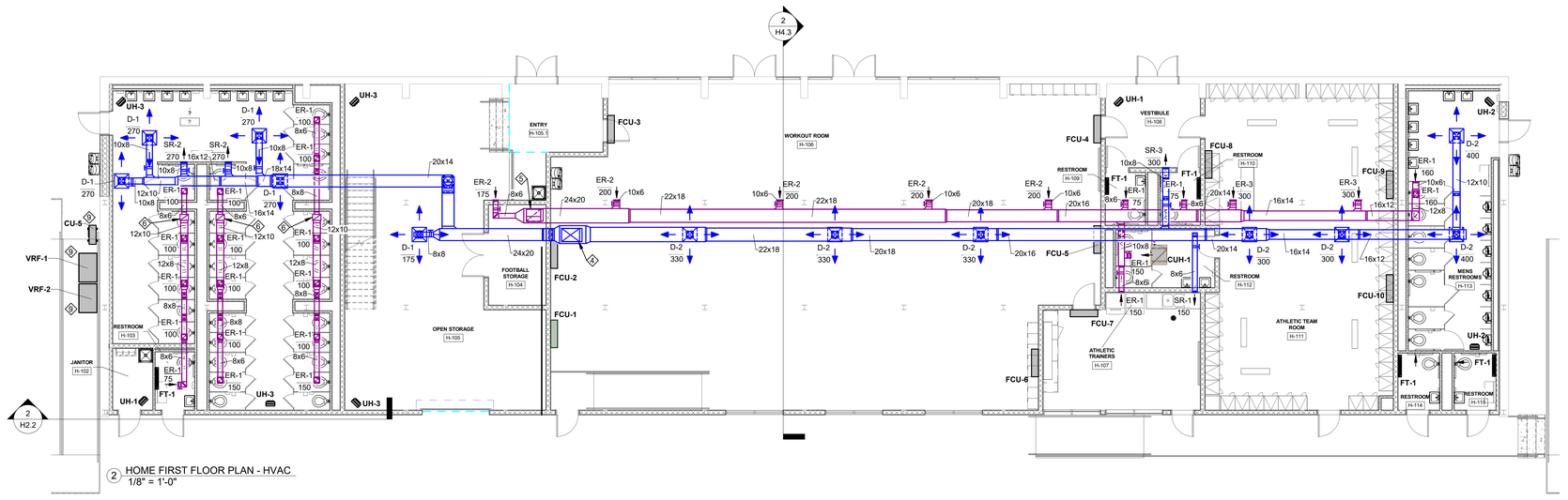

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DRAWING NOTES:

1. STACK O/A DUCT ABOVE E/A DUCT. BOTTOM OF EXHAUST AIR DUCT AT 7'-6"
2. O/A SUPPLY DUCT TAKEOFF ON SIDE OF TRUNK. RUN DUCT WITH CEILING SLOPE BETWEEN SUPPORT STRUCTURE.
3. EXHAUST DUCT FROM EXHAUST TRUNK STRAIGHT THROUGH WALL TO EXHAUST REGISTER. LOCATE REGISTER TO AVOID PLUMBING FIXTURES, SUPPORTS, PLUMBING PIPING AND TOILET PARTITIONS.
4. 30X22 S.A. DOWN FROM ABOVE, REFER TO H2.2 FOR CONTINUATION
5. 24X20 R.A. DOWN FROM ABOVE, REFER TO H2.2 FOR CONTINUATION
6. 14X10 R.A. DOWN FROM ABOVE, REFER TO H2.2 FOR CONTINUATION
7. 3" AIR INTAKE, INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
8. 3" EXHAUST, INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
9. PROVIDE CONCRETE EQUIPMENT PAD UNDER EQUIPMENT
10. HANG UNIT IN SPACE FROM EXISTING STRUCTURE. PROVIDE ADDITIONAL SUPPORT ELEMENTS AND VIBRATION ISOLATORS.



1 VISITOR FIRST FLOOR PLAN - HVAC
1/8" = 1'-0"



2 HOME FIRST FLOOR PLAN - HVAC
1/8" = 1'-0"

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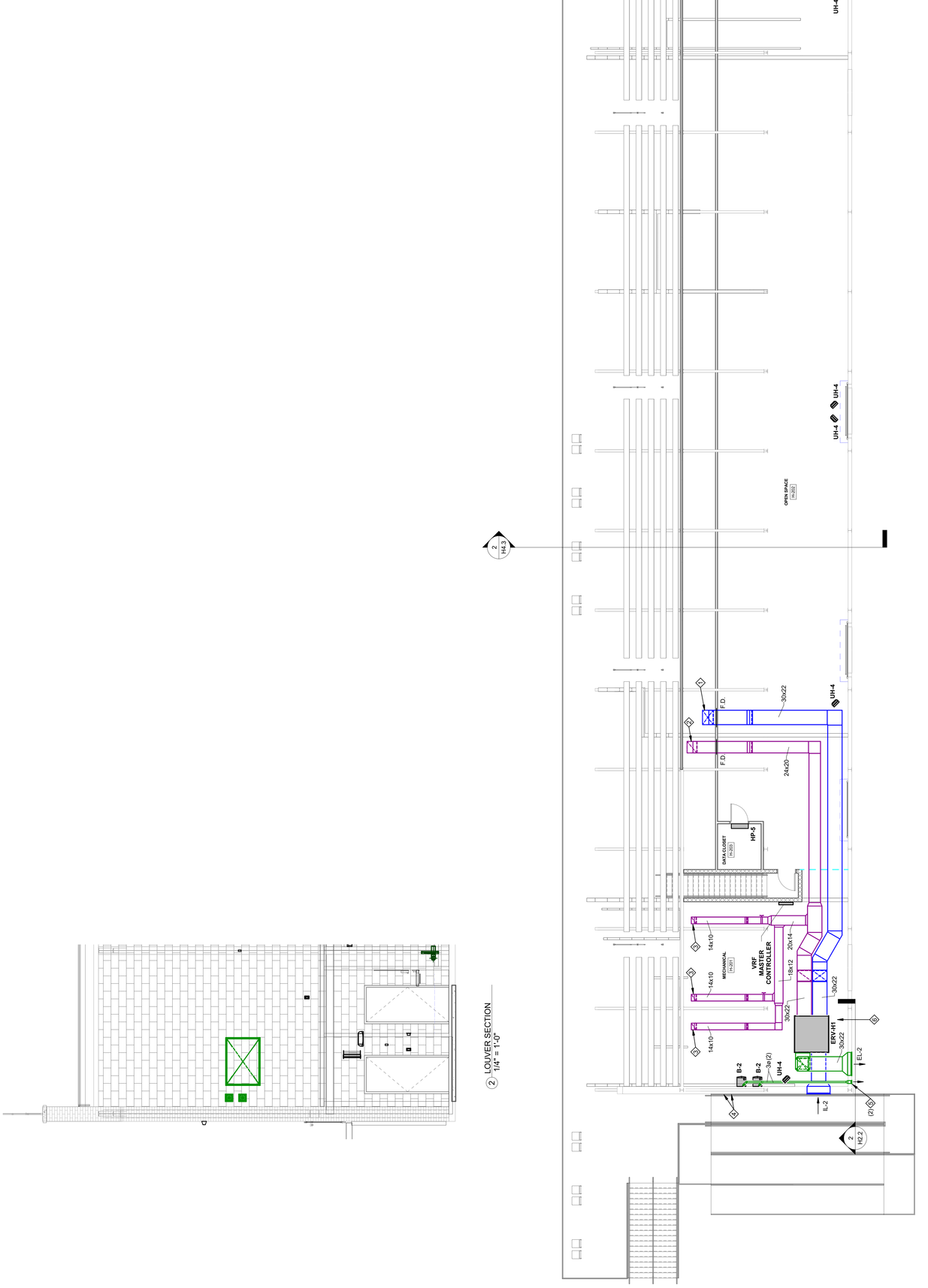
FIRST FLOOR PLANS - HVAC

SHEET NUMBER:

H2.1

CONFORMED SET

3/5/2025 2:21:35 PM



1 HOME SECOND FLOOR PLAN - HVAC
1/8" = 1'-0"

2 LOUVER SECTION
1/4" = 1'-0"

DRAWING NOTES:

1. 30X22 S.A. DOWN TO DUCT CHASE ON FLOOR BELOW, REFER TO H2.1 FOR CONTINUATION
2. 24X20 R.A. DOWN TO DUCT CHASE ON FLOOR BELOW, REFER TO H2.1 FOR CONTINUATION
3. 14X10 R.A. DOWN TO FLOOR BELOW, REFER TO H2.1 FOR CONTINUATION
4. 3" AIR INTAKE. INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
5. 3" EXHAUST. INSTALL PER BOILER MANUFACTURER'S INSTRUCTIONS
6. INSTALL ERV ON FLOOR WITH HOUSEKEEPING PAD AND VIBRATION ISOLATORS.

CONFORMED SET

SHEET NUMBER: H2.2

SECOND FLOOR PLAN - HVAC

SHEET TITLE:

PROJ # : 24-SOL-03 DRAWN BY: Author

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

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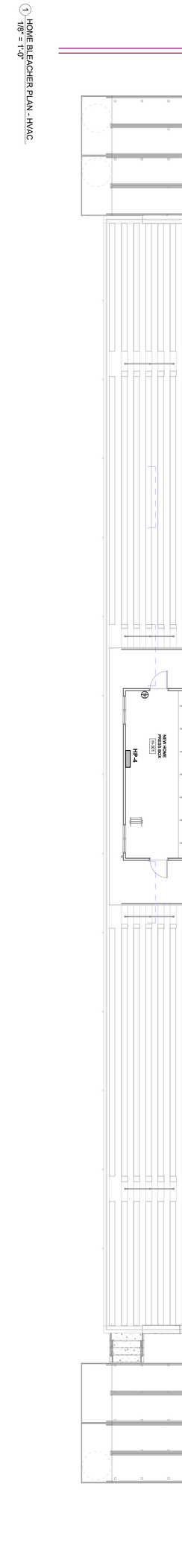
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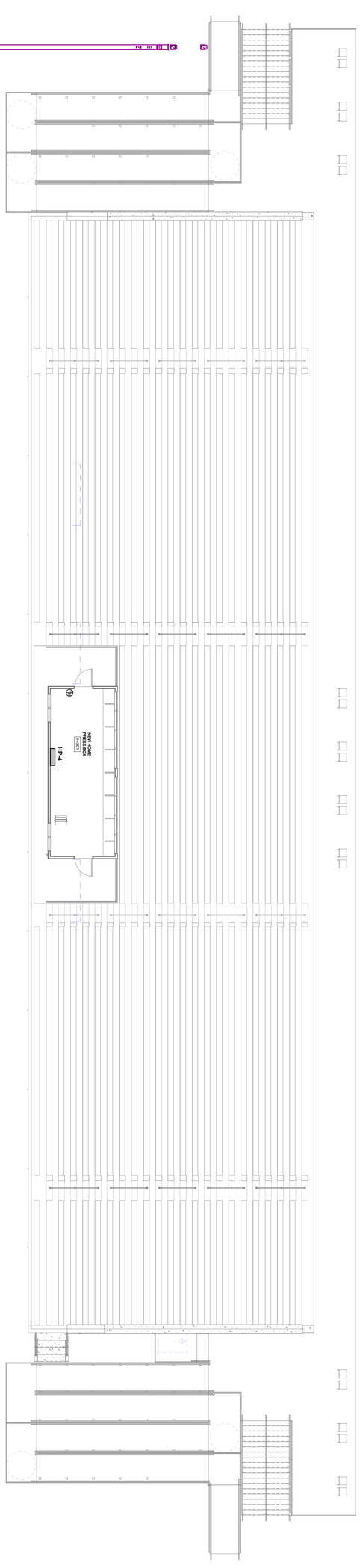
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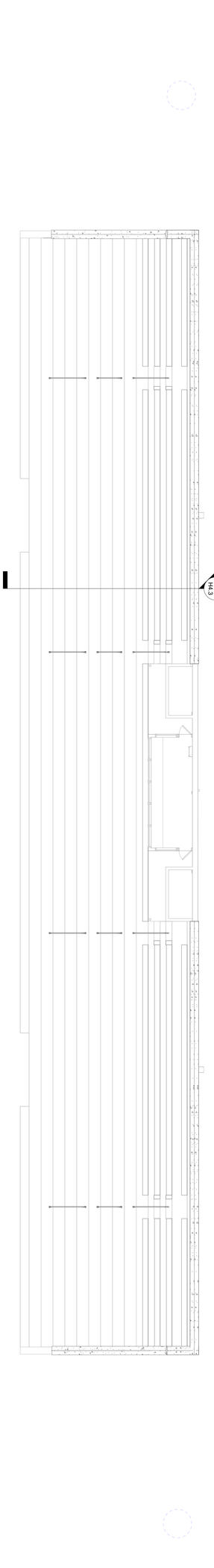
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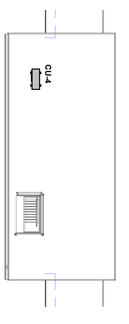
1 HOME BLEACHER PLAN - HVAC
1/8" = 1'-0"



2 VISITOR BLEACHER PLAN - HVAC
1/8" = 1'-0"



3 VISITOR PRESS BOX SECOND FLOOR PLAN - HVAC
1/8" = 1'-0"



4 HOME PRESS BOX FILM DECK PLAN - HVAC
1/8" = 1'-0"



CONFORMED SET

SHEET NUMBER: H2.3

SHEET TITLE: BLEACHER PLANS - HVAC

PROJ #: 24-SDC-03
DRAWN BY: Author

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

RENOVATIONS
J.P. MCCASKEY STADIUM PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

CONSULTANT:

MOORE ENGINEERING COMPANY
3637 Columbia Avenue, Lancaster PA 17603
P: 717.285.3141, MooreEngineering.com

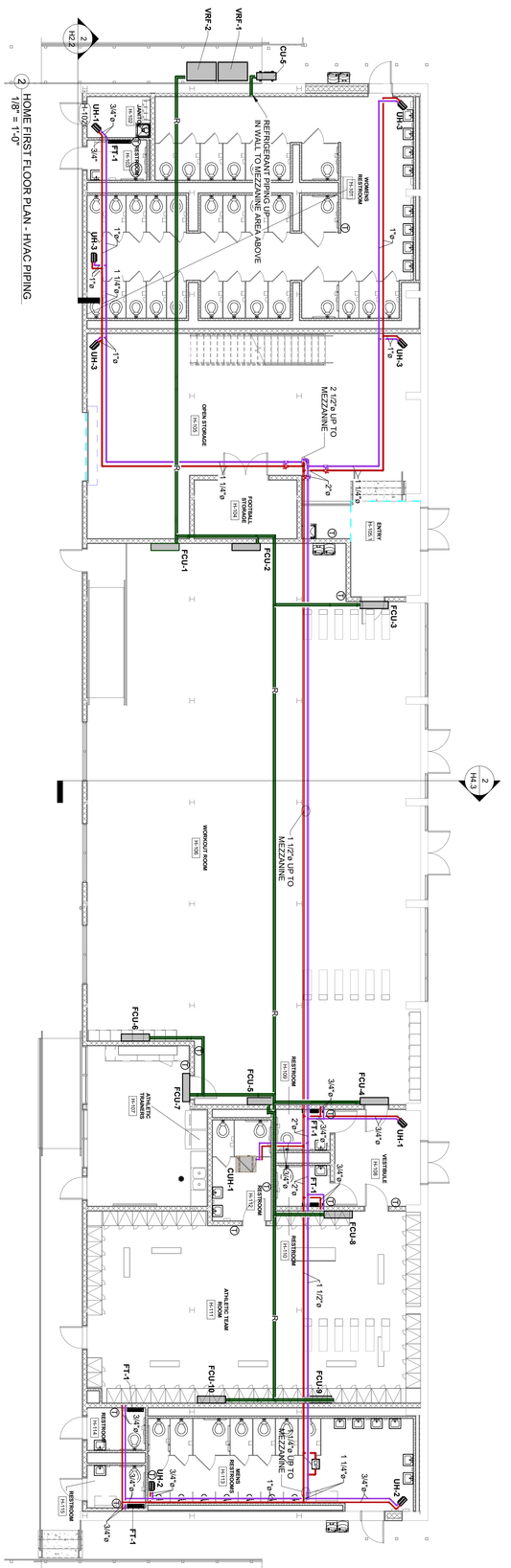
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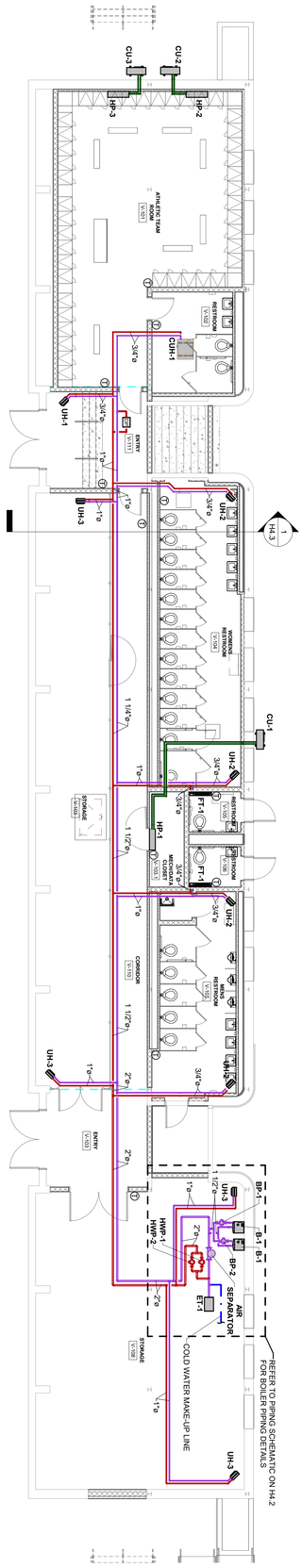
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2 HOME FIRST FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"



1 VISITOR FIRST FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

RENOVATIONS
J.P. MCCASKEY STADIUM PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

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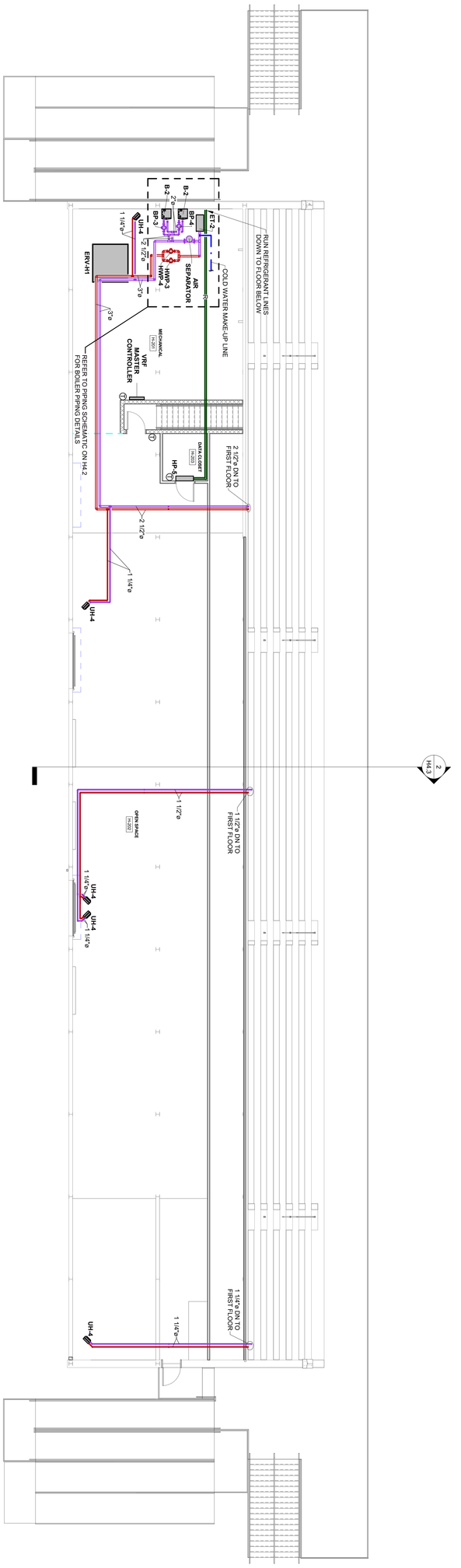
PROJ # : 24-020-03
DRAWN BY : Author

SHEET TITLE:
FIRST FLOOR PLANS - HW PIPING

SHEET NUMBER:
H3.1

CONFORMED SET

3/5/2025 2:21:59 PM



1 HOME SECOND FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"

CONFORMED SET

SHEET NUMBER: H3.2

SECOND FLOOR PLAN - HW PIPING

SHEET TITLE:

PROJ # : 24-030-03

DRAWN BY : Author

ISSUE DATES	
DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

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ENERGY RECOVERY UNITS

SYMBOL	SUPPLY AIR			EXHAUST AIR			SUMMER						WINTER						WHEEL EFFECTIVENESS		ELECTRICAL			BASIS OF DESIGN	REMARKS
	CFM	E.S.P.	HP	CFM	E.S.P.	HP	OA DB (F)	OA WB (F)	RA DB (F)	RA WB (F)	SA DB (F)	SA WB (F)	OA DB (F)	OA WB (F)	RA DB (F)	RA WB (F)	SA DB (F)	SA WB (F)	SUMMER	WINTER	VOLTS/PH	MCA	MOCP	MANUFACTURER AND MODEL NO.	
ERV-V1	2350	0.5	1.5	2350	0.5	1.5	94.0	78.0	75.0	62.5	78.4	66.2	0.0	-1.5	72.0	55.8	57.6	47	78.1	80.7	460/60/3	7.8	15	GREENHECK ERV-45-15L	-
ERV-H1	4600	0.6	3	4600	0.6	3	94.0	78.0	75.0	62.5	80	67.9	0.0	-1.5	72.0	55.8	51	42.4	67.9	71.5	460/60/3	11.8	15	GREENHECK ERVe-55-15L	-

MINI-SPLIT SYSTEM HEAT PUMP

SYMBOL	CFM	TOTAL COOLING MBH	SENSIBLE COOLING MBH	SEER2	O/A MIN CFM	HEATING CAPACITY @17 MBH	INDOOR UNIT		OUTDOOR UNIT				RECOMMENDED BREAKER SIZE	BASIS OF DESIGN	REMARKS
							FLA	VOLTAGE	FLA	VOLTAGE	MCA	MOCP		MANUFACTURER AND MODEL NO.	
HP-1/CU-1	385	12	10.5	21.3	0	10.6	.19	-	-	208/230/1	11	30	15	MITSUBISHI - TPKA0A0121LA10A & TRUZA0121KA70NA	2
HP-2/CU-2	775	30	21.6	18.5	0	32	.265	-	-	208/230/1	24	40	35	MITSUBISHI - TPKA0A0301KA80A & TRUZH0301KA00NA	1
HP-3/CU-3	775	30	21.6	18.5	0	32	.265	-	-	208/230/1	24	40	35	MITSUBISHI - TPKA0A0301KA80A & TRUZH0301KA00NA	1
HP-4/CU-4	775	24	18.48	19.5	0	26	.265	-	-	208/230/1	17	30	25	MITSUBISHI - TPKA0A0241KA80A & TRUZH0241HA10NA	1
HP-5/CU-5	385	12	10.5	21.3	0	10.6	.19	-	-	208/230/1	11	30	15	MITSUBISHI - TPKA0A0121LA10A & TRUZA0121KA70NA	2

NOTE:
1. SYSTEM TO BE HYPER-HEATING
2. SYSTEM TO HAVE LOW AMBIENT COOLING

REGISTER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE	TYPE
ER-1 CFM	0 - 160	10X6	SIDEWALL/CEILING MOUNT
ER-2 CFM	126 - 275	12X8	SIDEWALL/CEILING MOUNT
ER-3 CFM	305 - 675	18X12	SIDEWALL/CEILING MOUNT
SR-1 CFM	305 - 675	10X6	SIDEWALL/CEILING MOUNT
SR-2 CFM	126 - 275	12X8	SIDEWALL/CEILING MOUNT
SR-3 CFM	305 - 675	18X12	SIDEWALL/CEILING MOUNT

LOUVERS

SYMBOL	CFM	SIZE	REMARKS
IL-1	2350	48X24	-
EL-1	2350	48X16	-
IL-2	4600	48X48	-
EL-2	4600	48X36	-

SUPPLY AIR DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE	FACE SIZE	TYPE
D-1 CFM	126 - 275	9X9	24X24	CEILING MOUNT
D-2 CFM	276 - 500	12X12	24X24	CEILING MOUNT

VRF CONDENSING UNIT

SYSTEM TAG	SYSTEM 1
TAG REFERENCE	VRF-1,2
MODEL NUMBER	TUHYE2404BN41AN
MODULES	EP120, EP120
NOMINAL COOLING CAPACITY (BTU/h)	240,000
NOMINAL HEATING CAPACITY (BTU/h)	270,000
COOLING EFFICIENCY IEER/EER	21.75 / 10.1
HEATING COP @ 47°F	3.635
NOM. SYSTEM CONNECTED CAPACITY (%OF NOM)	122.5%
DESIGN COOLING OUTDOOR TEMP DB (°F)	95.0
DESIGN HEATING OUTDOOR TEMP WB (°F)	0
CORRECTED COOLING TOTAL CAPACITY (BTU/h)	222,478
CORRECTED HEATING CAPACITY (BTU/h)	205,868.8
COMPRESSOR TYPE	SCROLL
COMPRESSOR QUANTITY	2
VOLTAGE/PHASE	460V/3Ø
MCA 208V/230V OR 460V	25, 25
MOCP	40, 40
APPLICATION SYSTEM NOTES - SEE NOTES BELOW	1, 2, 3, 4

NOTE:
1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED AND NON-DUCTED INDOOR UNITS.
4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.

VRF FAN COIL UNIT SCHEDULE

SYMBOL	SPACE SERVING	CFM	TOTAL MBH NOMINAL	SENS. MBH NOMINAL	EAT		HEATING CAP. NOMINAL	ELECTRICAL			MOUNTING	BASIS OF DESIGN
					DB	WB		VOLTAGE	MCA	MOCP		
FCU-1	WORKOUT ROOM H106	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-2	WORKOUT ROOM H106	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-3	WORKOUT ROOM H106	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-4	WORKOUT ROOM H106	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-5	WORKOUT ROOM H106	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-6	WORKOUT ROOM H106	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-7	ATHLETIC TRAINERS H107	918	24	20.78	75	62.5	27	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP024KM142B
FCU-8	ATHLETIC TEAM ROOM H111	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-9	ATHLETIC TEAM ROOM H111	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B
FCU-10	ATHLETIC TEAM ROOM H111	918	30	23.5	75	62.5	34	208/230/1Ø	0.63	15	WALL MOUNTED	MITSUBISHI - TPKFYP030KM142B

BOILER

SYMBOLS	INPUT MBH	OUTPUT MBH	FUEL	GPM THRU BOILER	PD THRU BOILER (FT)	TEMP. RISE THRU BOILER (F)	TURNDOWN	VENT SIZE	ELECTRICAL		BASIS OF DESIGN
									VOLTS/PH	FLA	MANUFACTURERS AND MODEL NO.
B-1	155	144	NG	14.7	4.5	20	10:1	3"	120V/1PH		LOCHINVAR WHB155N
B-2	285	264	NG	27	2.4	20	10:1	3"	120V/1PH		LOCHINVAR WHB285N

CIRCULATING PUMPS

SYMBOL	GPM	FT. HD	H.P.	RPM	EFF.	TYPE	DRIVE TYPE	IMPELLER SIZE (IN)	VOLTS/PH	BASIS OF DESIGN	REMARKS
										MANUFACTURER AND MODEL	
HWP-1	32	28	3/4	1087	46	INLINE	-	8.5	208V/3PH	BELL & GOSSETT e-80	2
HWP-2	32	28	3/4	1087	46	INLINE	-	8.5	208V/3PH	BELL & GOSSETT e-80	2
HWP-3	64	60	3	1800	51	INLINE	-	8.75	480V/3PH	BELL & GOSSETT e-80	2
HWP-4	64	60	3	1800	51	INLINE	-	8.75	480V/3PH	BELL & GOSSETT e-80	2
BP-1	17	6	-	-	-	INLINE	-	-	115V/1PH	GRUNDFOS UPMS20-78	1
BP-2	17	6	-	-	-	INLINE	-	-	115V/1PH	GRUNDFOS UPMS20-78	1
BP-3	27	2.4	-	-	-	INLINE	-	-	115V/1PH	GRUNDFOS UPMXL25-124	1
BP-4	27	2.4	-	-	-	INLINE	-	-	115V/1PH	GRUNDFOS UPMXL25-124	1

NOTE:
1. PUMP TO BE PROVIDED FROM MANUFACTURER WITH BOILER
2. PUMP TO BE PROVIDED BY M.C.

FIN TUBE RADIATION

SYMBOL	MBH	HOT WATER					LENGTH			HEIGHT	DEPTH	BASIS OF DESIGN		MANUFACTURER
		EAT	EWT	T.D.	GPM	P.D.	FINS/FT	ROWS	TOTAL			ENCLOSURE	ELEMENT	
FT-1	2.1	65	180	-	1	-	60	1	3'	9"	3.125"	LB2	R02	STERLING

HOT WATER UNIT HEATERS

SYMBOL	OUTPUT MBH	CFM	FAN			HOT WATER					BASIS OF DESIGN
			H.P.	RPM	VOLTAGE	EAT	EWT	T.D.	GPM	P.D.	MAUFACTURER AND MODEL NO.
UH-1	11	340	1/60	1550	115V/1PH	60	180	17.6	1.3	-	MODINE HC18
UH-2	14.2	370	1/25	1550	115V/1PH	60	180	17.6	1.7	-	MODINE HC24
UH-3	39.9	1120	1/12	1550	115V/1PH	60	180	17.6	4.7	-	MODINE HC63
UH-4	51.6	1340	1/8	1625	115V/1PH	60	180	17.6	6.3	-	MODINE HC86

CABINET HEATERS

SYMBOL	MBH	HOT WATER					CFM	S.P.	FAN			BASIS OF DESIGN
		EAT	EWT	T.D.	GPM	P.D.			HP	RPM	VOLTAGE	MANUFACTURER AND MODEL NO.
CUH-1	10.6	60	180	16.3	1.3	0.2	250	1	0.03	-	115V/1PH	MODINE CW002

EXPANSION TANKS

SYMBOL	TOTAL VOLUME	ACCEPTANCE VOLUME	PRESSURE	TYPE	BASIS OF DESIGN
ET-1	8.6	3.2	125	DEEP DRAWN DIAPHRAGM	AMTROL AX-15DD
ET-2	23	11.3	125	DEEP DRAWN DIAPHRAGM	AMTROL AX-40DD

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025 DESCRIPTION: CONFORMED SET

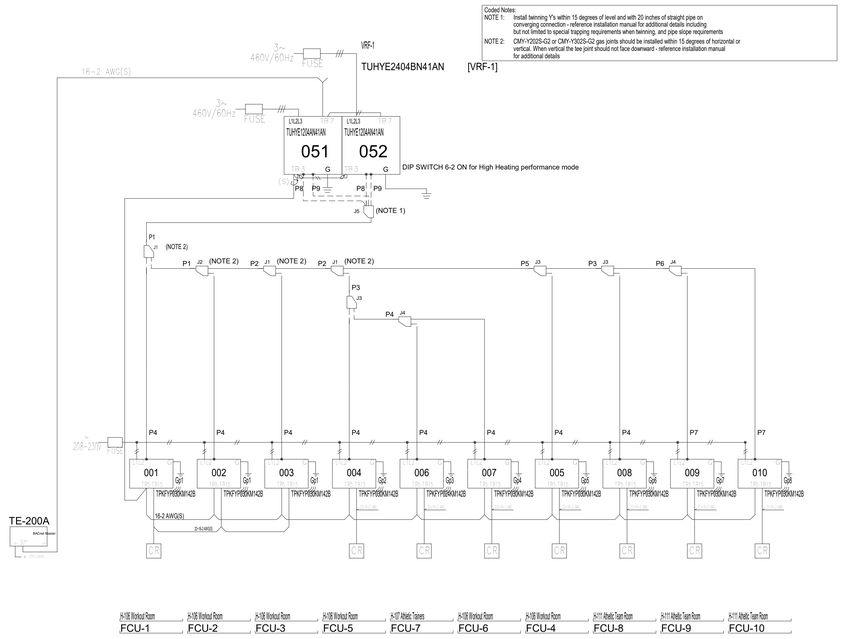
PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
H4.1

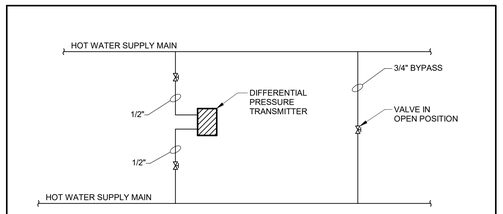
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VRF SYSTEM PIPING SCHEMATIC

NO SCALE

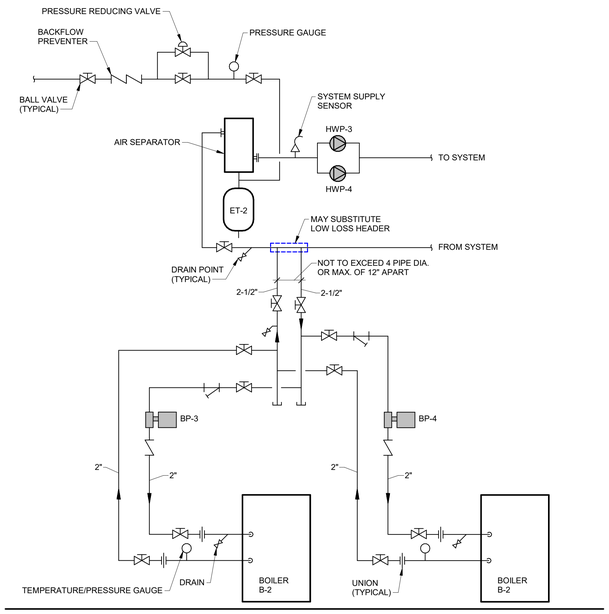


NOTE:

PROVIDE PIPING, TRANSMITTER, VALVES, BYPASS, ECT. AT ALL LOCATIONS NOTED ON PLANS.

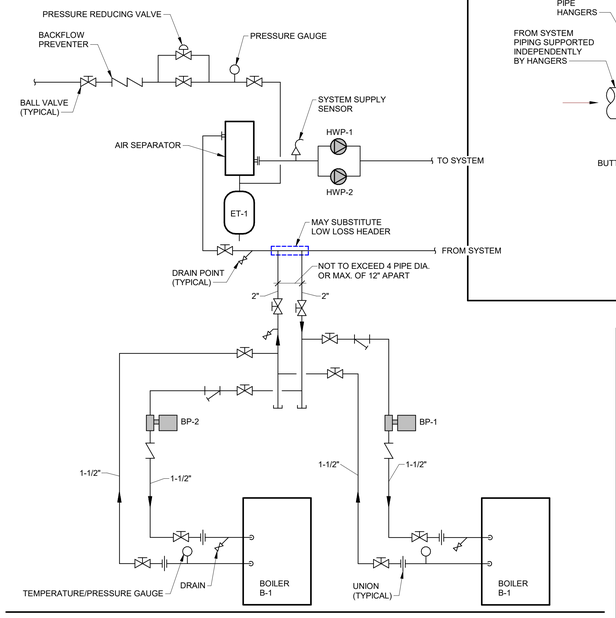
TYPICAL PRESSURE TRANSMITTER PIPING SCHEMATIC

NO SCALE



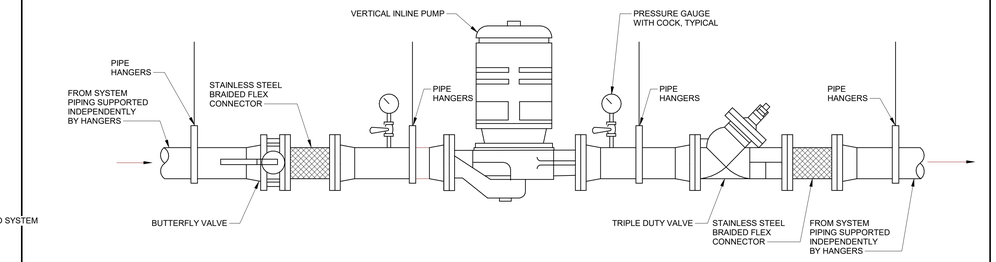
HOT WATER HEATING SYSTEM PIPING SCHEMATIC - HOME SIDE

NO SCALE



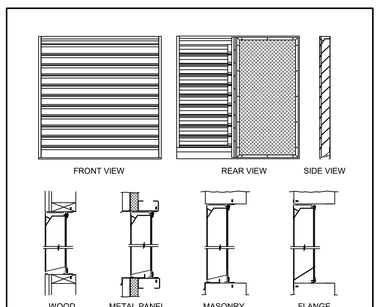
HOT WATER HEATING SYSTEM PIPING SCHEMATIC - VISITOR SIDE

NO SCALE



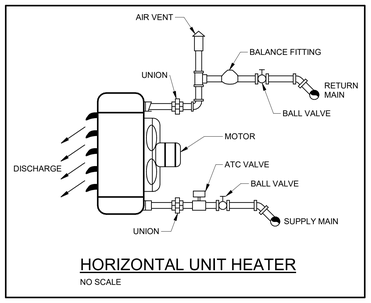
IN-LINE PUMP DETAIL

NO SCALE



LOUVER DETAIL

NO SCALE



HORIZONTAL UNIT HEATER

NO SCALE

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445 N RESERVOIR ST, LANCASTER, PA 17602

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DESCRIPTION: CONFORMED SET
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PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

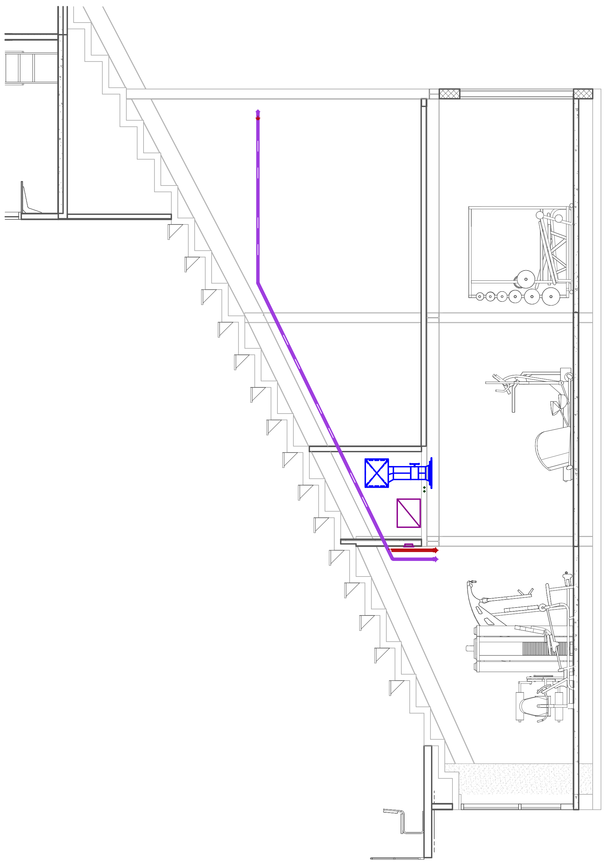
HVAC DETAILS

SHEET NUMBER:

H4.2

CONFORMED SET

3/5/2025 2:22:11 PM



1 HVAC VISITORS SIDE SECTION
1/4" = 1'-0"

2 HVAC HOME SIDE SECTION
1/4" = 1'-0"

CONFORMED SET

SHEET NUMBER: H4.3

HVAC SECTIONS

SHEET TITLE:

PROJ # : 24-006-03 DRAWN BY: Author

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

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NATURAL VENTILATION AIR CALCULATION CHART

SPACE	AREA (SQ. FT.)	OPERABLE OPENING REQUIRED (SQ. FT.)	OPERABLE OPENING PROVIDED (SQ. FT.)
STORAGE 102, CONCESSION 103, PREP 104	1005	40.2	154.33
TICKETS 107	127	5.08	31.9

FANS

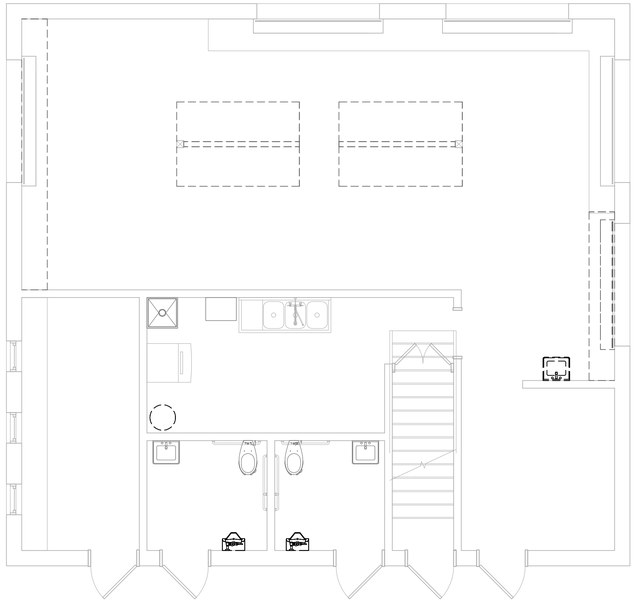
SYMBOL	CFM	S.P.	SONES	RPM	WATTS	VOLTAGE	BASIS OF DESIGN
EF-1	100	0.5	3	939	22	115V/1PH	GREENHECK SP-LP0511

RADIATION PANEL

SYMBOL	BTU	ELECTRIC		LENGTH	WIDTH	BASIS OF DESIGN
		VOLTS	WATTS			
RP-1	1,280	208	375	24"	24"	BERKO ATH24241A

DRAWING NOTES:

1. --
2. --



1 FIRST FLOOR HVAC DEMOLITION
1/4" = 1'-0"



2 FIRST FLOOR HVAC
1/4" = 1'-0"

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESIVIOR ST., LANCASTER, PA 17602

ISSUE DATES
DATE: 03/05/2025
DESCRIPTION: CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

CONCESSION STAND PLANS - HVAC

SHEET NUMBER:

H5.1

CONFORMED SET

3/5/2025 2:12:08 PM

PLUMBING NOTES:

1. INDIVIDUAL FIXTURE PIPING CONNECTION SIZES SHALL BE IN ACCORDANCE WITH PLUMBING FIXTURE SCHEDULE.
2. ANY PHYSICAL INSTALLATION MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE RESOLVED BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MECHANICAL ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR UNLESS OTHERWISE NOTED. ALL VENT LINES SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. ALL WATER PIPING SHALL BE CONCEALED WHERE PHYSICALLY POSSIBLE.
4. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL CODES, LOCAL, STATE AND NATIONAL HAVING JURISDICTION.
5. THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
6. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSURE A COMPLETE SYSTEM.
7. THE CONTRACTOR SHALL THOROUGHLY COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
8. THE CONTRACTOR SHALL SEAL ALL RESPECTIVE WALL, FLOOR, CEILING OR ROOF PENETRATIONS.
9. THE PLUMBING CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THE INSTALLATION.

NATURAL GAS PIPING SYSTEMS NOTES:

1. GAS PIPE SHALL BE SCHEDULE 40 SEAMLESS STEEL PIPE.
2. INSTALLATION SHALL BE ACCORDING TO LOCAL CODES AND GAS COMPANY REQUIREMENTS. AFTER INSTALLATION, PIPE SHALL BE TESTED WITH 30 LB. TEST FOR 1 HOUR WITNESSED BY LOCAL GAS COMPANY BEFORE SERVICE IS TURNED ON.
3. PROVIDE A SUITABLE GAS COCK AND UNIONS AT EACH CONNECTION TO EACH PIECE OF GAS FIRED EQUIPMENT.
4. PROVIDE SUITABLE GAS PRESSURE REGULATORS WITH VENTS TO THE ATMOSPHERE REQUIRED IN ORDER TO MAINTAIN REQUIRED PRESSURE AT EACH PIECE OF GAS CONSUMING EQUIPMENT.
5. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION OR THE NATIONAL FUEL GAS CODE FOR GAS-FIRED UNIT HEATERS AND DUCT FURNACES, AND THESE STANDARDS SHOULD BE FOLLOWED CAREFULLY. AUTHORITIES HAVING JURISDICTION SHOULD BE CONSULTED BEFORE INSTALLATION ARE MADE TO VERIFY LOCAL CODES AND INSTALLATION.
6. PLUMBING CONTRACTOR SHALL COORDINATE GAS SERVICE WITH GAS COMPANY. GAS SERVICE SHALL BE SIZED FOR THE CAPACITY OF ALL GAS EQUIPMENT.
7. PLUMBING CONTRACTOR SHALL COORDINATE GAS SERVICE WITH ALL OTHER TRADES TO AVOID CONFLICT.
8. GAS METER LOCATION SHALL BE COORDINATED WITH GAS COMPANY AND ARCHITECT.
9. ALL EXPOSED PIPING SHALL BE PAINTED WITH (1) PRIME COAT AND (2) COATS OF BEST QUALITY OIL BASE PAINT.

CUTTING AND PATCHING NOTE:

THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF ALL MECHANICAL WORK ON THIS PROJECT. CUTTING AND PATCHING METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE OWNER AND THE ARCHITECT. PATCHES IN FIRE RATED DEMISING WALLS, CEILING OR FLOORS SHALL MAINTAIN THE FIRE RATING OF THOSE BARRIERS BY THE USE OF APPROVED MATERIALS INCLUDING SPECIAL FIRE RATED SEALING COMPOUNDS OR MATERIALS IDENTICAL TO THE BARRIER MATERIALS.

DEMOLITION NOTES:

1. RESPECTIVE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY DEMOLITION WORK (EVEN IF NOT SHOWN ON THE PLANS) NECESSARY FOR COMPLETION OF PROJECT. THIS INCLUDES REMOVAL OF ANY EQUIPMENT AND MATERIALS THAT WILL NO LONGER BE UTILIZED AFTER COMPLETION OF THIS PROJECT.
2. EQUIPMENT THAT IS REMOVED SHALL BE TURNED OVER TO OWNER. IF OWNER DOES NOT WANT EQUIPMENT, IT SHALL BE DISPOSED OF PROPERLY BY RESPECTIVE CONTRACTOR.

CEILING TILE NOTE:

THIS CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXISTING CEILING TILE AND GRID AS REQUIRED FOR HIS WORK AND FOR RE-INSTALLATION OF TILE AND GRID AND REPLACEMENT OF OR REPAIR OF ALL TILE AND GRID DAMAGED BY HIS WORK. PLEASE NOTE THAT THE GENERAL CONTRACTOR WILL BE REPLACING GRID AND TILE IN SOME AREAS AS PART OF HIS CONTRACT. THIS CONTRACTOR SHALL REMOVE AND RE-INSTALL CEILING IN THOSE AREAS NOT AFFECTED BY THE GENERAL CONTRACT'S WORK. REFER TO ARCHITECTURAL DRAWINGS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	WASTE	VENT	HOT	COLD	REMARKS
WC-1	WATER CLOSET	4"	2"	-	1"	WALL HUNG ADA
WC-2	WATER CLOSET	4"	2"	-	1"	WALL HUNG -
UR-1	URINAL	2"	1-1/2"	-	3/4"	WALL HUNG ADA
UR-2	URINAL	2"	1-1/2"	-	3/4"	WALL HUNG -
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	ADA
LV-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	-
SK-1	SINK	1-1/2"	1-1/2"	1/2"	1/2"	ADA
MB-1	MOP BASIN	2"	1-1/2"	1/2"	1/2"	-
IMB-1	ICE MAKER BOX	-	-	-	1/2"	-
EWC-1	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	-	1/2"	BI-LEVEL, ADA - INSTALLATION TO ALLOW FOR WINTERIZING
				-		
WH-1	WALL HYDRANT	-	-	-	3/4"	FROST FREE
HB-1	HOSE BIBB	-	-	-	3/4"	
DWH-1	DOMESTIC WATER HEATER	-	-	1-1/2"	1-1/2"	-
TMV-1	MIXING VALVE	-	-	2"	2"	-
CP-1	DOMESTIC CIRCULATION PUMP	-	-	1"	-	
ET-1	EXPANSION TANK	-	-	-	-	-
FD-1	FLOOR DRAIN	SEE PLANS	SEE PLANS	-	-	INSTALL WITH TRAP SEAL
FD-2	FLOOR DRAIN	SEE PLANS	SEE PLANS	-	-	MEDIUM DUTY, INSTALL WITH TRAP SEAL
FS-1	FLOOR SINK	SEE PLANS	SEE PLANS	-	-	INSTALL WITH TRAP SEAL
TD-1	TRENCH DRAIN	4"	SEE PLANS	-	-	-
WC-3	WATER CLOSET	4"	2"	-	1"	FLOOR MOUNTED ADA

PLUMBING SYMBOL SCHEDULE

	NEW DOMESTIC COLD WATER PIPING
CW	EXISTING DOMESTIC COLD WATER PIPING
CW	DEMOLITION DOMESTIC COLD WATER PIPING
	NEW DOMESTIC HOT WATER PIPING
HW	EXISTING DOMESTIC HOT WATER PIPING
HW	DEMOLITION DOMESTIC HOT WATER PIPING
	NEW DOMESTIC HOT WATER CIRCULATING PIPING
HWR	EXISTING DOMESTIC HOT WATER CIRCULATING PIPING
HWR	DEMOLITION DOMESTIC HOT WATER CIRCULATING PIPING
	NEW DOMESTIC 140 HOT WATER PIPING
HW 140	EXISTING DOMESTIC 140 HOT WATER PIPING
HW 140	DEMOLITION DOMESTIC 140 HOT WATER PIPING
	NEW DOMESTIC 140 HOT WATER CIRCULATING PIPING
HWR 140	EXISTING DOMESTIC 140 HOT WATER CIRCULATING PIPING
HWR 140	DEMOLITION DOMESTIC 140 HOT WATER CIRCULATING PIPING
G	NEW NATURAL GAS PIPING
G	EXISTING NATURAL GAS PIPING
G	DEMOLITION NATURAL GAS PIPING
C	NEW CONDENSATE PIPING
C	EXISTING CONDENSATE PIPING
C	DEMOLITION CONDENSATE PIPING
	NEW SANITARY DRAIN PIPING
	EXISTING SANITARY DRAIN PIPING
	DEMOLITION SANITARY DRAIN PIPING
AW	NEW ACID WASTE DRAIN PIPING
AW	EXISTING ACID WASTE DRAIN PIPING
AW	DEMOLITION ACID WASTE DRAIN PIPING
C.O.	FLOOR CLEANOUT
C.O.	WALL CLEANOUT
	NEW SANITARY VENT PIPING
	EXISTING SANITARY VENT PIPING
AW	NEW ACID WASTE VENT PIPING
AW	EXISTING ACID WASTE VENT PIPING
GW	NEW GREASE LADEN WASTE DRAIN PIPING
GW	EXISTING GREASE LADEN WASTE DRAIN PIPING
GW	DEMOLITION GREASE LADEN WASTE DRAIN PIPING
VTR	VENT THRU ROOF
OST	NEW EMERGENCY OVERFLOW STORM WATER PIPING
ST	NEW STORM WATER PIPING
ST	EXISTING STORM WATER PIPING
ST	DEMOLITION STORM WATER PIPING
RWC	RAIN WATER CONDUCTOR (STORM SEWER RISER)
RD-1	NEW ROOF DRAIN
RD	EXISTING ROOF DRAIN
	SHUT-OFF VALVE
	CHECK VALVE AND BALANCING VALVE
	CONNECTION NEW TO EXISTING
	DISCONNECTION DEMO TO EXISTING

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AW	ACID WASTE PIPING
BG	BELOW GRADE
CO	CLEANOUT
CW	COLD WATER
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FD	FLOOR DRAIN
GW	GREASE LADEN WASTE DRAIN PIPING
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
LV	LAVATORY
MB	MOP BASIN
OST	EMERGENCY STORM SEWER OVERFLOW
RD	ROOF DRAIN
SHR	SHOWER
SK	SINK
SS	SERVICE SINK
ST	STORM SEWER
UR	URINAL
VTR	VENT THRU ROOF
WC	WATER CLOSET

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RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA. 17602

ISSUE DATES
DATE: 03/05/2025
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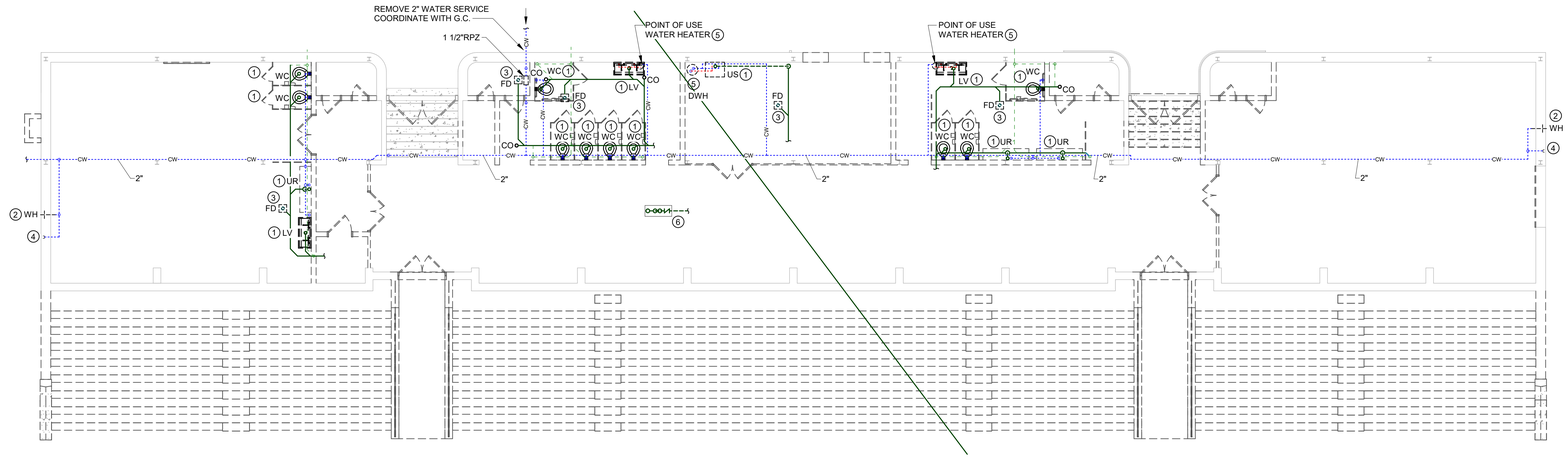
PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:
PLUMBING SCHEDULES AND NOTES

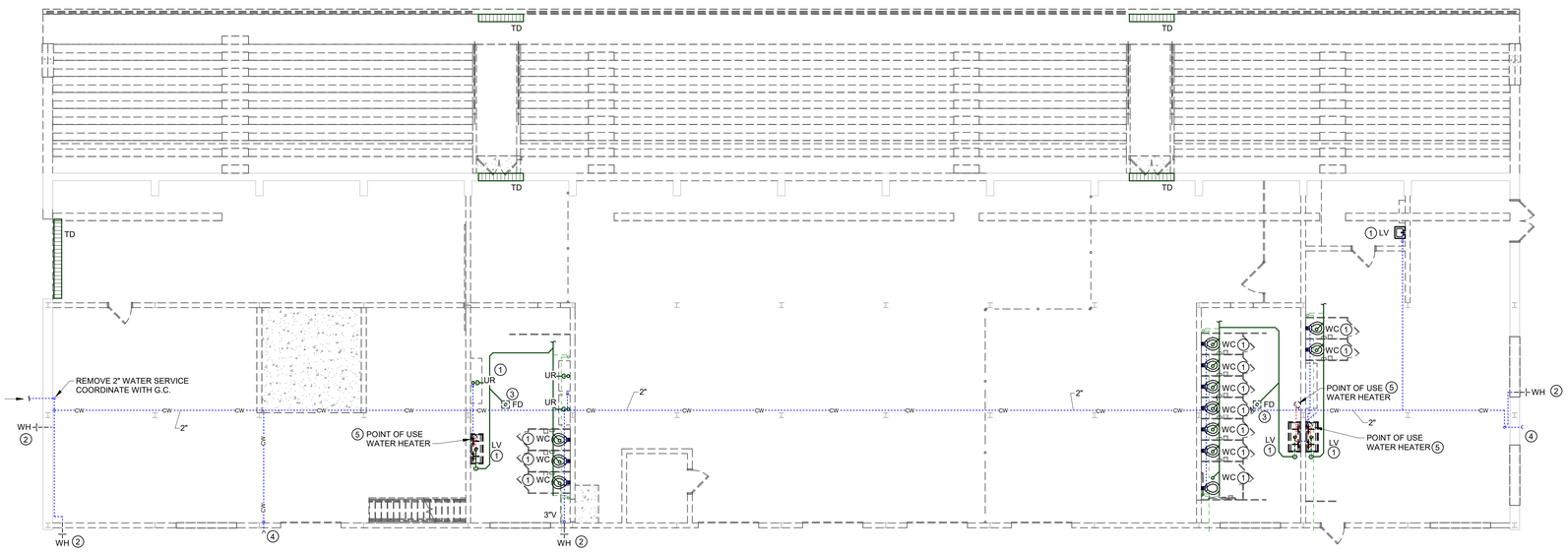
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P0.1

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1 VISITOR FIRST FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"



2 HOME FIRST FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

DRAWING NOTES:

1. REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED WATER AND DRAIN PIPING. ABANDON AND CAP DRAIN PIPING BELOW FLOOR.
2. REMOVE WALL HYDRANT AND ALL ASSOCIATED PIPING. PATCH AND REPAIR WALL TO MATCH EXISTING SURROUNDINGS.
3. REMOVE FLOOR DRAIN AND PIPING TO BELOW FLOOR AND CAP.
4. REMOVE EXTERIOR IRRIGATION HOSE CONNECTION. PATCH AND REPAIR WALL TO MATCH EXISTING SURROUNDINGS.
5. REMOVE WATER HEATER AND ALL ASSOCIATED PIPING.
6. REMOVE TRAP, BACKWATER VALVE AND PIPING TO E REPLACE.

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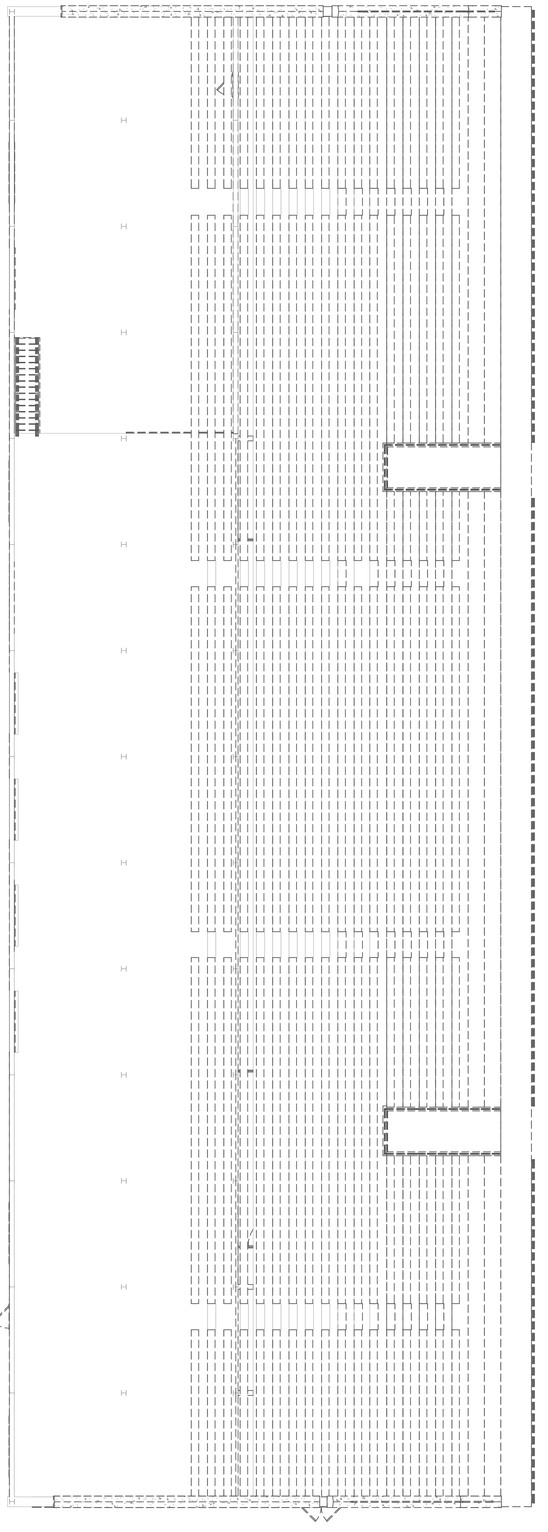
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FIRST FLOOR PLANS - PLUMBING DEMOLITION

SHEET NUMBER:
P1.1

CONFORMED SET

3/5/2025 2:17:18 PM

3/5/2025 2:17:23 PM



1 HOME SECOND FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

DRAWING NOTES:

1. --

CONFORMED SET

SHEET NUMBER: P1.2

SHEET TITLE: SECOND FLOOR PLAN - PLUMBING DEMOLITION

PROJ #: 24-SDL-03

DRAWN BY: Author

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

RENOVATIONS

J.P. MCCASKEY STADIUM PROJECTS

SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602

CONSULTANT:

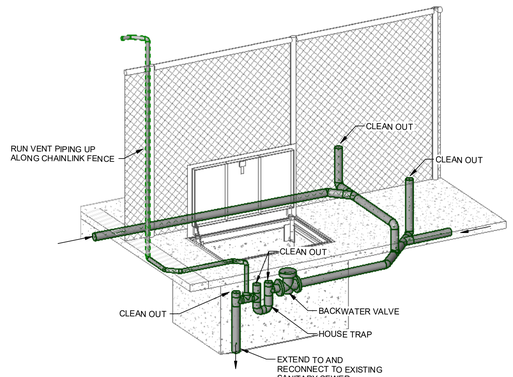
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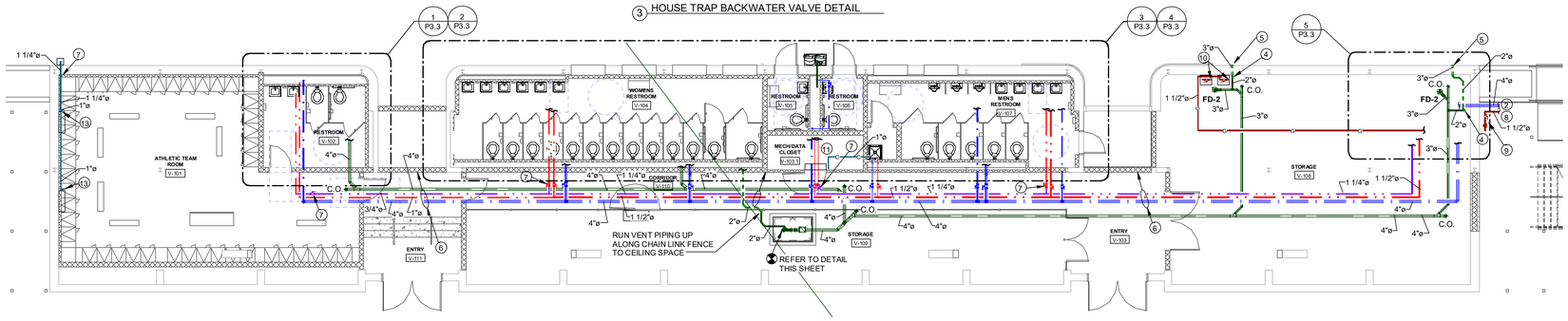
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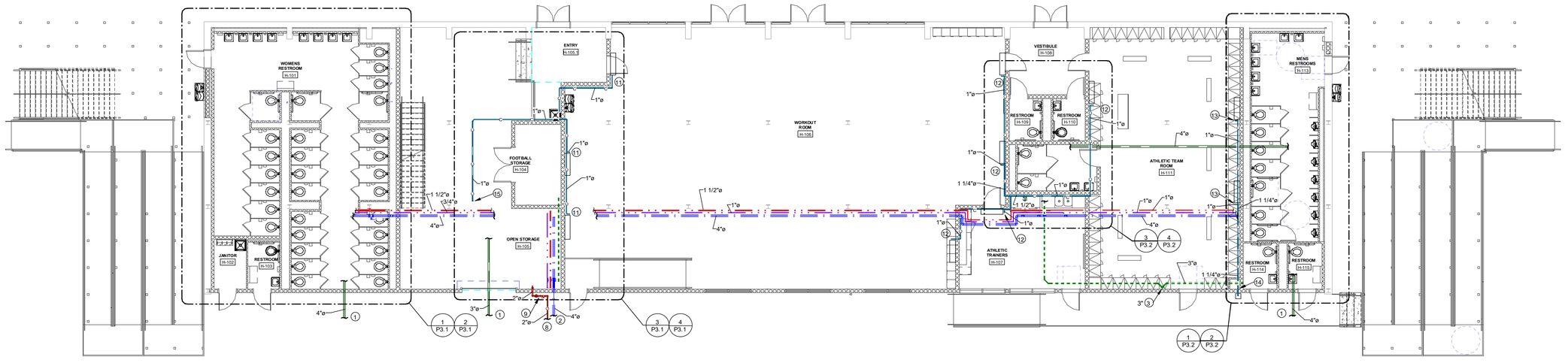
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3 HOUSE TRAP BACKWATER VALVE DETAIL



1 VISITOR FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"



2 HOME FIRST FLOOR PLAN - PLUMBING
1/8" = 1'-0"

DRAWING NOTES:

1. EXTEND SANITARY DRAIN PIPING OUTSIDE BUILDING FOR CONNECTION TO SITE PIPING, FIELD COORDINATE EXACT LOCATION AND INVERT WITH G.C.
2. EXTEND DOMESTIC WATER PIPING OUTSIDE BUILDING FOR CONNECTION TO SITE PIPING, FIELD COORDINATE EXACT LOCATION AND INVERT WITH G.C. PROVIDE MINIMUM 3'-0" COVER.
3. RUN SANITARY VENT PIPING UP THRU FLOOR ABOVE. REFER TO MEZZANINE PLAN FOR CONTINUATION.
4. RUN VENT PIPING UP ALONG WALL TO CEILING.
5. SIDE WALL SANITARY VENT WITH BIRD SCREEN.
6. RUN WATER PIPING MAINS VERTICALLY STACKED ALONG WALL.
7. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE, REFER TO DETAIL.
8. EXTEND UNDERGROUND GAS PIPING FOR CONNECTION TO SITE PIPING, FIELD COORDINATE EXACT LOCATION AND INVERT WITH G.C.
9. PROVIDE SHUT-OFF VALVE, DIRT LEG AND GAS PRESSURE REGULATOR SET @ 2 PSIG > 12" W.C.
10. CONFECT 1" GAS SERVICE TO HVAC BOILER PER MANUFACTURERS REQUIREMENTS. PROVIDE SHUT-OFF VALVE AND UNION.
11. CONNECT CONDENSATE PIPING TO HVAC PUMP DISCHARGE AND PIPE UP TO CEILING, CONTINUE WITH SLOPE TO MOP BASIN.
12. CONNECT CONDENSATE PIPING TO HVAC PUMP DISCHARGE AND PIPE UP TO CEILING, CONTINUE WITH SLOPE TO FLOOR DRAIN.
13. CONNECT CONDENSATE PIPING TO HVAC PUMP DISCHARGE AND PIPE UP TO CEILING, CONTINUE WITH SLOPE.
14. RUN PIPING DOWN IN CHASE AND OUT TO SPILL ON SPLASH BLOCK.
15. RUN CONDENSATE DOWN FROM FLOOR ABOVE, CONTINUE AT CEILING OVER TO MOP BASIN.

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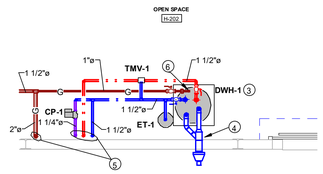
PROJ # : 24-SDL-03
DRAWN BY : Author

SHEET TITLE:
FIRST FLOOR PLANS - PLUMBING

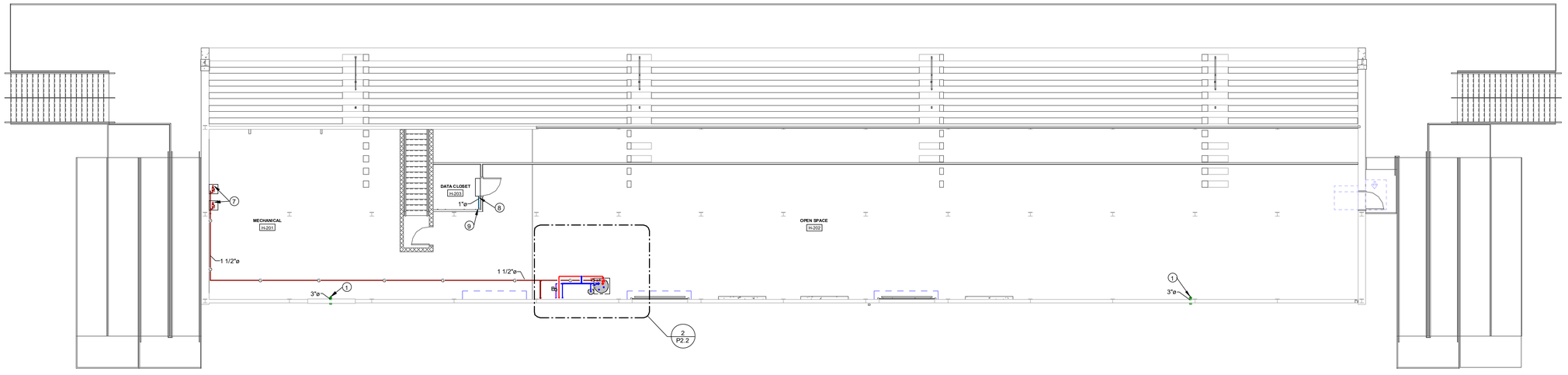
SHEET NUMBER:
P2.1

CONFORMED SET

3/5/2025 2:17:38 PM



2 HOME SECOND FLOOR WATER HEATER PLAN
1/4" = 1'-0"



1 HOME SECOND FLOOR PLAN - PLUMBING
1/8" = 1'-0"

DRAWING NOTES:

1. RUN SANITARY VENT PIPING UP FLOOR BELOW ALONG WALL AND TERMIATE OUTSIDE BUILDING - SIDE WALL VENT WITH BIRD SCREEN.
2. RUN WATER PIPING MAINS UP FROM FLOOR BELOW.
3. INSTALL WATER HEATER PER MANUFACTURERS REQUIREMENTS, PROVIDE 4" THICK HOUSE KEEPING PAD, PAD SHALL EXTEND 4" OUT ON ALL SIDES.
4. RUN AIR INTAKE AND FLUE EXHAUST UP AND OUT, PROVIDE MANUFACTURED CONCENTRIC SIDEWALL TERMINATION KIT.
5. RUN GAS AND WATER PIPING MAINS UP FROM FLOOR BELOW.
6. CONFECT GAS SERVICE TO WATER HEATER PER MANUFACTURERS REQUIREMENTS. PROVIDE SHUT-OFF VALVE AND UNION.
7. CONFECT 1" GAS SERVICE TO HVAC BOILER PER MANUFACTURERS REQUIREMENTS. PROVIDE SHUT-OFF VALVE AND UNION.
8. CONNECT CONDENSATE PIPING TO HVAC PUMP DISCHARGE AND PIPE UP TO CEILING, CONTINUE WITH SLOPE.
9. RUN PIPING DOWN THRU FLOOR TO CEILING SPACE OF FLOOR BELOW, REFER TO DRAWING P2.1 FOR CONTINUATION.

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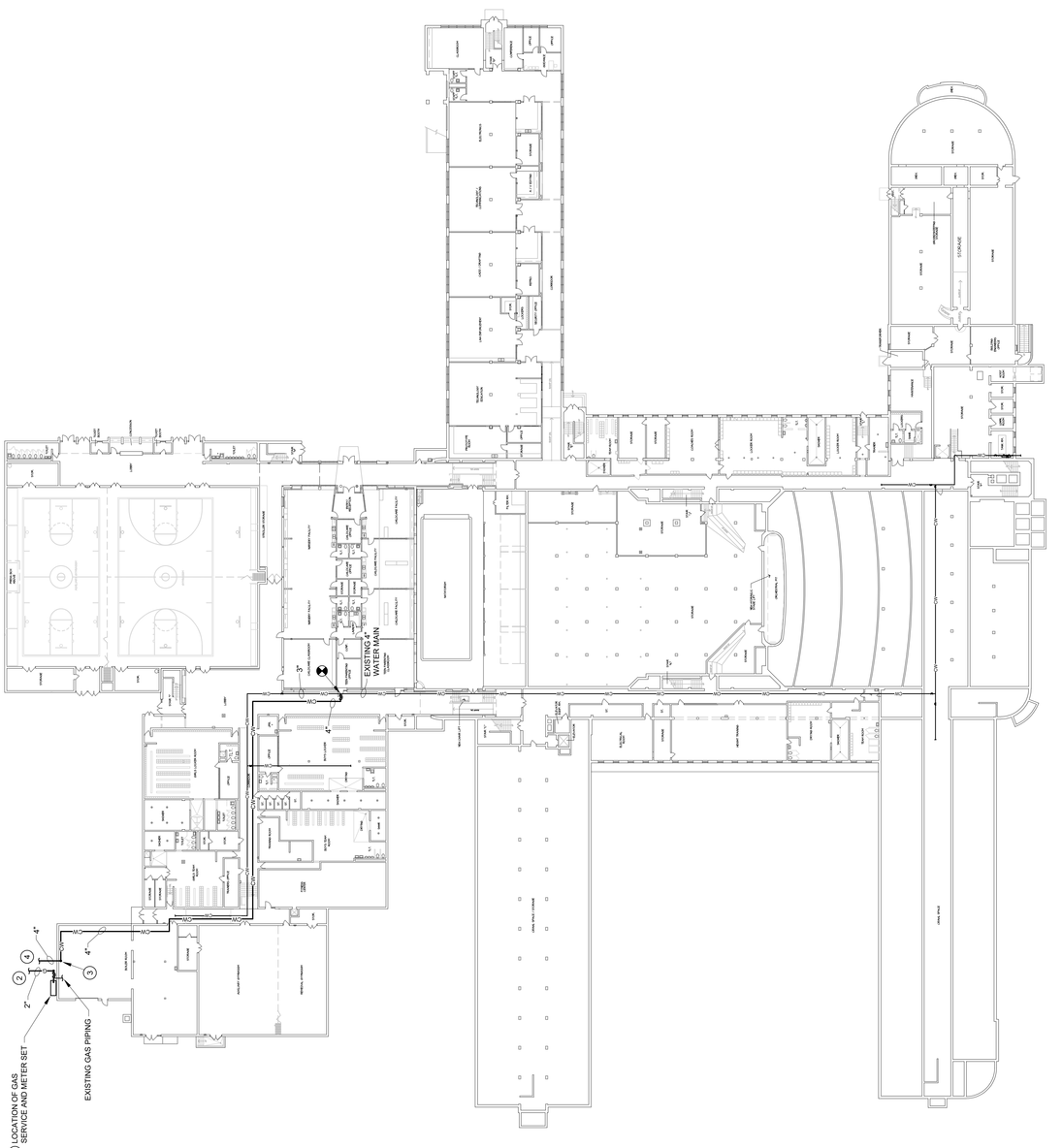
SECOND FLOOR PLAN - PLUMBING

SHEET NUMBER:

P2.2

CONFORMED SET

3/5/2025 2:17:45 PM



1 FIRST FLOOR PLAN
1/32" = 1'-0"

⑧ DRAWING NOTES:

1. EXISTING GAS SERVICE AND METER SET TO BE REPLACED BY GAS COMPANY TO INCREASE GAS PRESSURE TO 2 PSIG. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY AND PROVIDE GAS PRESSURE REGULATOR TO BACK FEED EXISTING SERVICE FOR THE HIGH SCHOOL. REGULATOR SHALL BE SET FOR 2 PSIG. ± 14" W.C. FOR 24.5/2 HMH.
2. CONTRACTOR SHALL EXTEND 2" UNDERGROUND GAS SERVICE OUT FOR CONNECTION TO SITE PIPING BY G.C. GAS SERVICE SET AT 2 PSIG.
3. RUN NEW WATER MAIN DOWN TO BELOW FLOOR AND OUTSIDE BUILDING. PROVIDE MINIMUM 3' OF COVER.
4. CONTRACTOR SHALL EXTEND 4" UNDERGROUND WATER MAIN OUT FOR CONNECTION TO SITE PIPING BY G.C.

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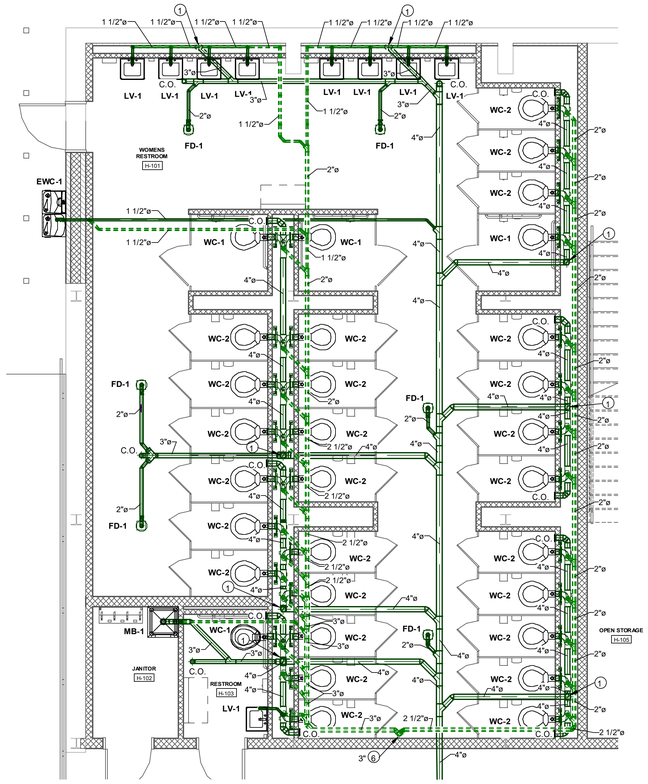
PROJ #: 24-500-03 DRAWN BY: A. KNOT

SHEET TITLE:
HIGH SCHOOL
FIRST FLOOR
PLUMBING PLAN

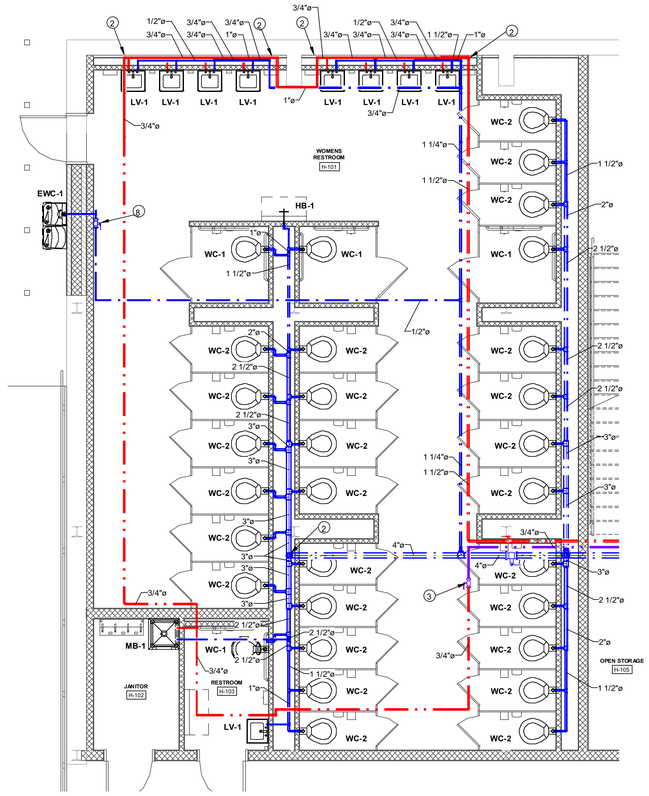
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P2.3

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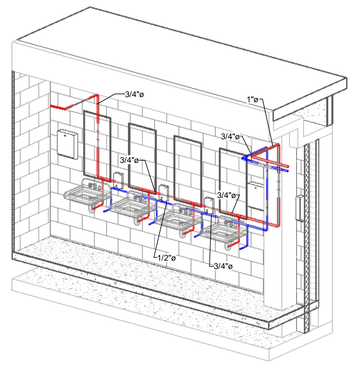
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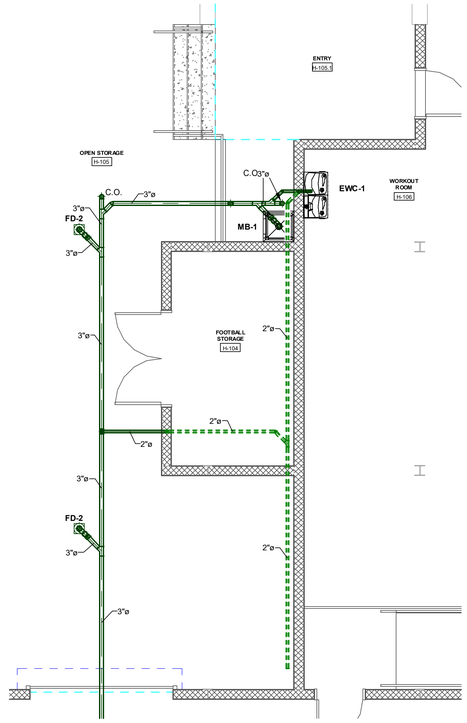
1 WOMENS RESTROOM H-101 DRAIN PIPING PLAN
1/4" = 1'-0"



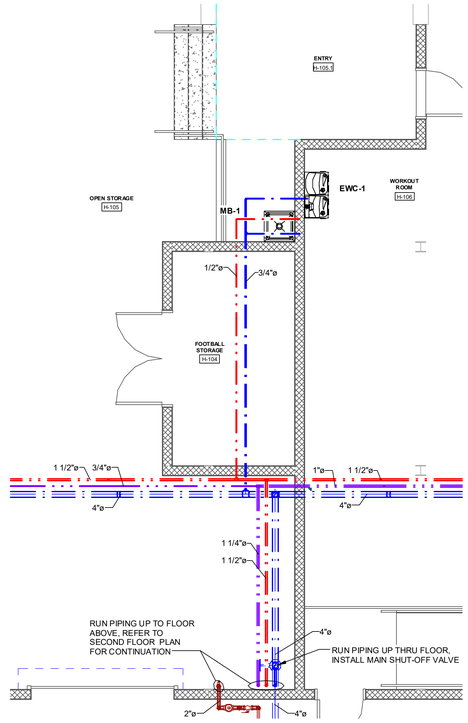
2 WOMENS RESTROOM H-101 WATER PIPING PLAN
1/4" = 1'-0"



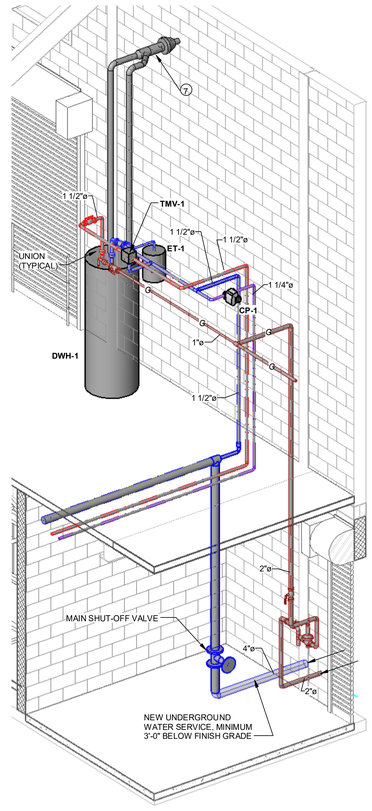
6 MULTI-LAVATORY WATER PIPING DETAIL



3 STORAGE H-105 & WORKOUT RM H-106 DRAIN PIPING PLAN
1/4" = 1'-0"



4 STORAGE H-105 & WORKOUT RM H-106 WATER PIPING PLAN
1/4" = 1'-0"



5 WATER SERVICE DETAIL

DRAWING NOTES:

1. RUN PIPING DOWN TO BELOW FLOOR.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE, REFER TO DETAIL.
4. CIRCULATE HW PIPING DOWN TO LAVATORY, REFER TO DETAIL.
5. SIDE WALL SANITARY VENT WITH BIRD SCREEN.
6. RUN SANITARY VENT PIPING UP THRU FLOOR ABOVE. REFER TO MEZZANINE PLAN FOR CONTINUATION.
7. RUN AIR INTAKE AND FLUE EXHAUST UP AND OUT, PROVIDE MANUFACTURED CONCENTRIC SIDEWALL TERMINATION KIT.
8. PROVIDE VALVE AND BLOW OUT PORT FOR WINTERIZING WATER COOLER.

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MOORE ENGINEERING COMPANY
3637 Columbia Avenue, Lancaster PA 17603
P. 717.285.3141, MooreEngineering.com

RENOVATIONS
J.P. MCCASKEY STADIUM
PROJECTS
SCHOOL DISTRICT OF LANCASTER
445 N RESERVOIR ST, LANCASTER, PA 17602

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

PROJ # : 24-SDL-03 DRAWN BY : Author

SHEET TITLE:

ENLARGED PLUMBING PLANS

SHEET NUMBER:

P3.1

CONFORMED SET

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CONFORMED SET

SHEET NUMBER:
P3.2

ENLARGED PLUMBING PLANS

PROJ # : 24-500-03 DRAWN BY : Author

SHEET TITLE:

ISSUE DATES

DATE:	DESCRIPTION:
03/05/2025	CONFORMED SET

RENOVATIONS

J.P. MCCASKEY STADIUM PROJECTS

SCHOOL DISTRICT OF LANCASTER

445 N RESERVOIR ST, LANCASTER, PA 17602

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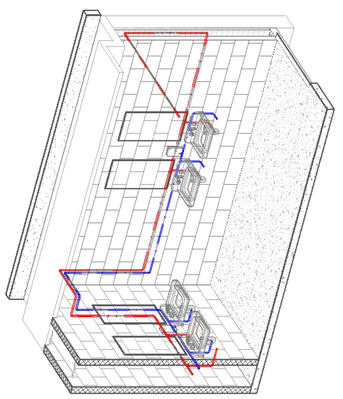
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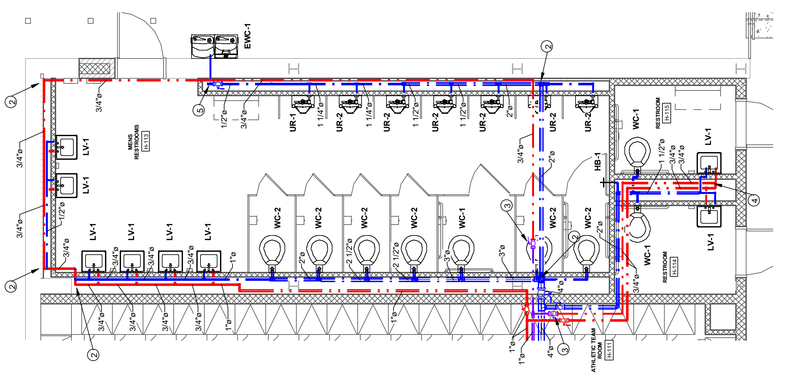
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DRAWING NOTES:

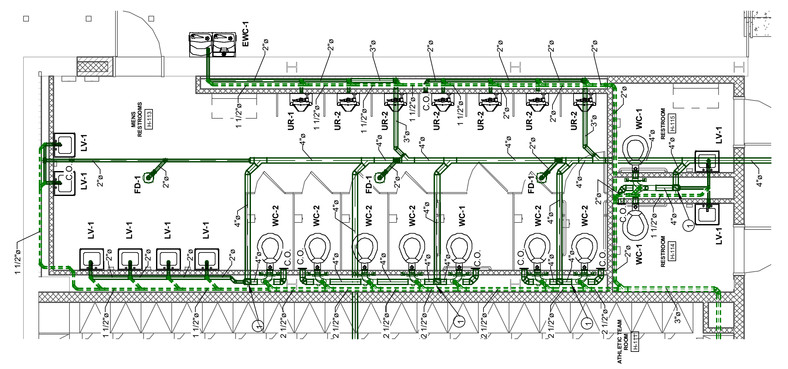
1. RUN PIPING DOWN TO BELOW FLOOR.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE. REFER TO DETAIL.
4. CIRCULATE HW PIPING DOWN TO LAVATORY, REFER TO DETAIL.
5. PROVIDE VALVE AND BLOW OUT PORT FOR WINTERIZING WATER COOLER.



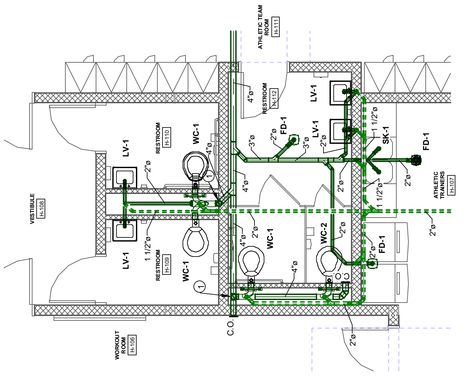
5 LAVATORY WATER PIPING DETAIL



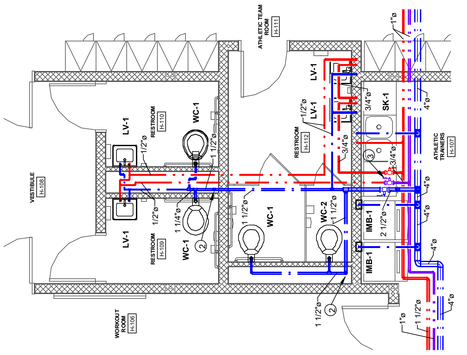
2 MENS RESTROOM H-113 WATER PIPING PLAN
1/4" = 1'-0"



1 MENS RESTROOM H-113 DRAIN PIPING PLAN
1/4" = 1'-0"

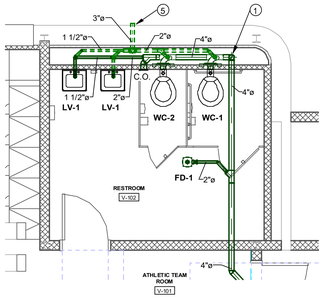


3 ATHLETIC TEAM RESTROOMS DRAIN PIPING PLAN
1/4" = 1'-0"

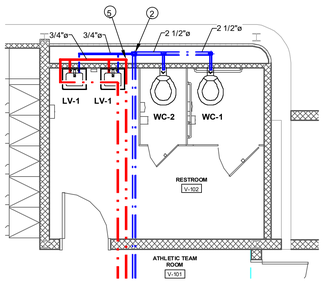


4 ATHLETIC TEAM RESTROOMS WATER PIPING PLAN
1/4" = 1'-0"

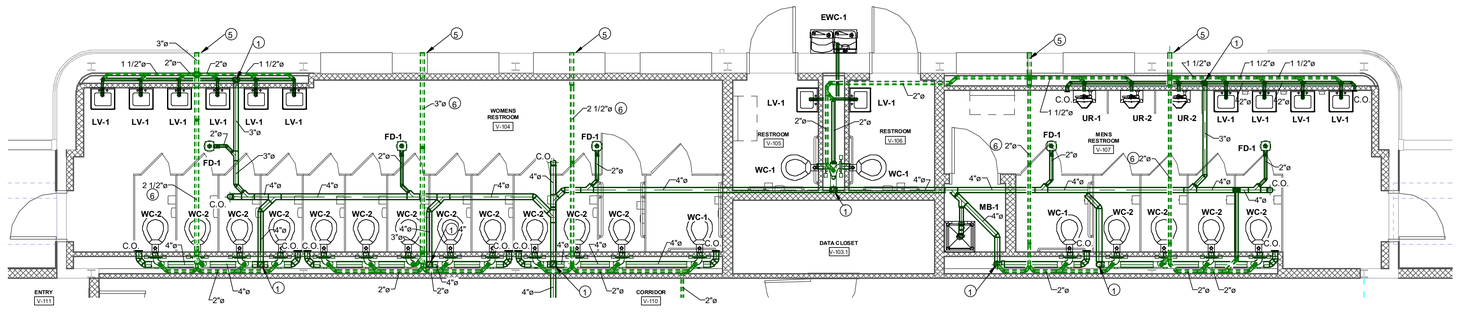
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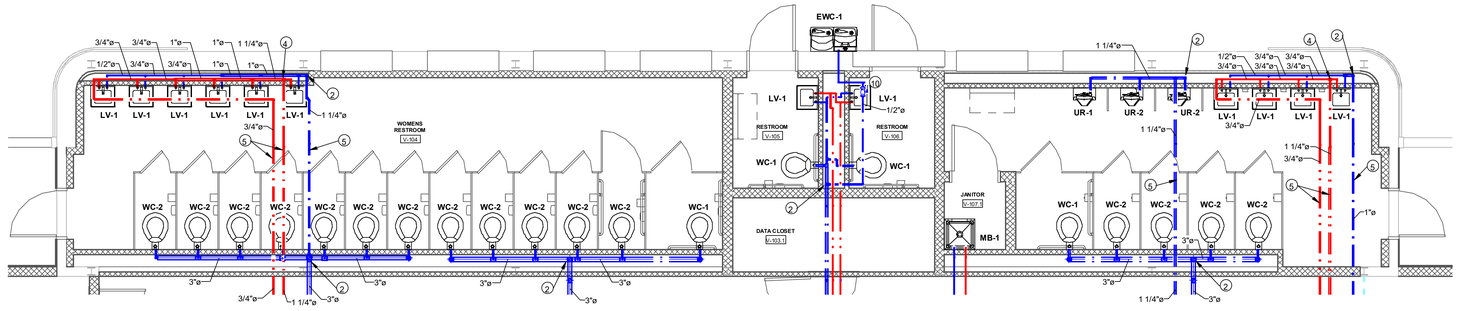
1 RESTROOM V-102 DRAIN PIPING PLAN
1/4" = 1'-0"



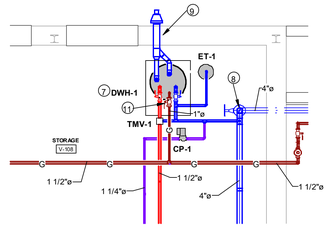
2 RESTROOM V-102 WATER PIPING PLAN
1/4" = 1'-0"



3 WOMENS RESTROOM V-104 DRAIN PIPING PLAN
1/4" = 1'-0"



4 WOMENS RESTROOM V-104 WATER PIPING PLAN
1/4" = 1'-0"



5 VISITOR BLEACHER STORAGE V-108 PIPING PLAN
1/4" = 1'-0"

DRAWING NOTES:

1. RUN PIPING DOWN TO BELOW FLOOR.
2. RUN PIPING DOWN INTO CHASE SPACE.
3. INSTALL SHUT-OFF VALVE, BALANCING VALVE AND CHECK VALVE, REFER TO DETAIL.
4. CIRCULATE HW PIPING DOWN TO LAVATORY, REFER TO DETAIL.
5. SIDE WALL SANITARY VENT WITH BIRD SCREEN.
6. RUN PIPING WITH SLOPE OF STRUCTURE.
7. INSTALL WATER HEATER PER MANUFACTURERS REQUIREMENTS, PROVIDE 4" THICK HOUSE KEEPING PAD, PAD SHALL EXTEND 4" OUT ON ALL SIDES.
8. RUN WATER PIPING MAIN UP THRU FLOOR, PROVIDE SHUT-OFF VALVE IN VERTICAL RISER.
9. RUN AIR INTAKE AND FLUE EXHAUST UP AND OUT, PROVIDE MANUFACTURED CONCENTRIC SIDEWALL TERMINATION KIT.
10. PROVIDE VALVE AND BLOW OUT PORT FOR WINTERIZING WATER COOLER.
11. CONFECT GAS SERVICE TO WATER HEATER PER MANUFACTURERS REQUIREMENTS. PROVIDE SHUT-OFF VALVE AND UNION.

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CONFORMED SET

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