PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WA 99301

VOLUME 1

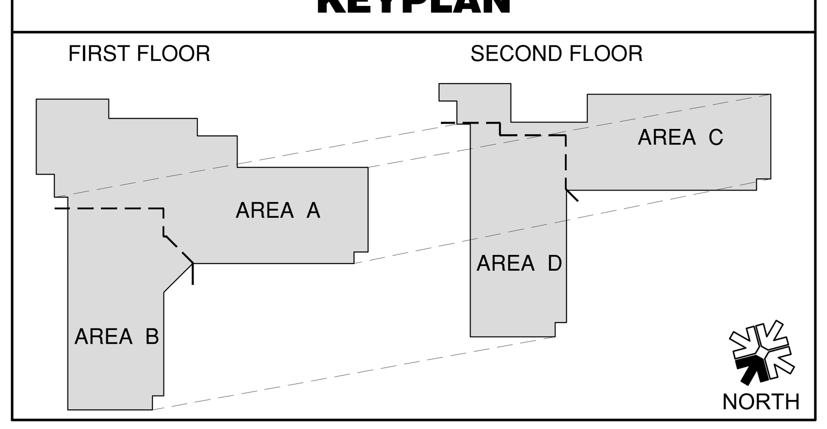
GENERAL NOTES

1. CONTRACTOR TO VERIFY WITH UTILITIES EXACT LOCATION OF EXISTING UNDERGROUND SERVICES. CONTACT CALL BEFORE YOU DIG AT: (800) 424-5555
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THESE DRAWINGS, THE SPECIFICATIONS, AND THE CURRENT EDITIONS OF THE IBC, IMC, NEC AND THE WASHINGTON STATE ENERGY CODE, AND ALL CITY OF PASCO REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PROVIDING ALL REQUIRED DOCUMENTATION FOR ISSUANCE OF PERMITS, INCLUDING ANY AND ALL ENGINEERING, STAMPED AND SIGNED BY REGISTERED PROFESSIONAL ENGINEERS IN THE STATE OF WASHINGTON APPROPRIATE TO THE DISCIPLINE.
3. THE CONTRACTOR AGREES TO ASSUME SAFE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ARCHITECT AND OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ARCHITECT, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES. THE ARCHITECT MAKES NO WARRANTY THAT THE CONSTRUCTION-PHASE FENCES, ETC., ARE ADEQUATE TO ENSURE SAFETY DURING CONSTRUCTION OPERATIONS.
4. DURING CONSTRUCTION THE SAFETY OF THE WORKERS, VISITORS, AND THE PROTECTION OF PROPERTY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT SHALL NOT INCLUDE OBSERVATION OF SAFETY MEASURES IN SITE VISIT OBSERVATION REPORTS.
5. REFERENCE G1/A7.10 FOR STANDARD ADA MOUNTING HEIGHTS, TYPICAL THROUGHOUT.

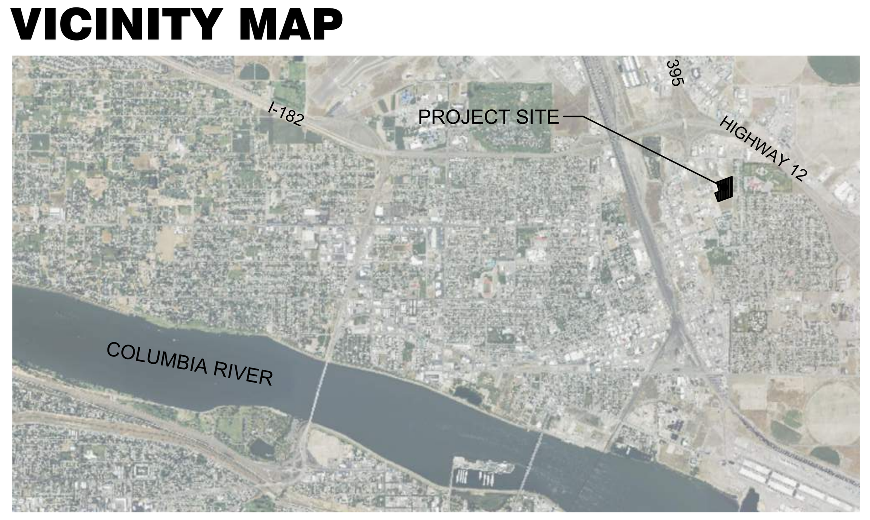
ABBREVIATIONS

ACOUST.	ACOUSTICAL
ADJ.	ADJACENT
ADJA.	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ALUM.	ALUMINUM
L	ANGLE
ASPH.	ASPHALT
ASSEM.	ASSEMBLY
BF	BRACE FRAME
BM.	BEAM
BRG.	BEARING
B.M.	BENCH MARK
BLK.	BLOCK
BLKG.	BLOCKING
BLDG.	BUILDING
BD.	BOARD
BOT.	BOTTOM
B.O	BOTTOM OF
B.U.	BUILT-UP
CAB.	CABINET
C.I.	CAST IRON
CLG.	CEILING
CL	CENTER LINE
CERAM.	CERAMIC
C	CHANNEL
CHEM.	CHEMICAL
C.O.	CLEAN OUT
CLR.	CLEAR
C.C.T.V.	CLOSED CIRCUIT TELEVISION
COL.	COLUMN
COMP.	COMPOSITION
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONT. JT.	CONTROL JOINT
CORRUG.	CORRUGATED
CPT	CARPET
CT.	CERAMIC TILE
C.F.	CUBIC FEET
CJ	CONTROL JOINT
CUST.	CUSTODIAL
DEG.	DEGREE
DENS.	DENSITY
DISP.	DISPENSER
D.F.	DRINKING FOUNTIAN
DIA.	DIAMETER
DIV.	DIVISION
DIR.	DIRECT
DIST.	DISTRIBUTION
DBL.	DOUBLE
EA.	EACH
ELASTO.	ELASTOMERIC
ELEC.	ELECTRICAL
E.W.C.	ELECTRIC WATER COOLER
ELEV.	ELEVATION
ENGRD.	ENGINEERED
EPXY.	EPOXY PAINT
EQ.	EQUAL OR EQUIVALENT
EXIST	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FD.	FLOOR DRAIN
FIN.	FINISH
F.E.	SURFACE MT FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER & CABINET
F.F.	FINISHED FLOOR
FLR.	FLOOR
FLRG.	FLOORING
FLDG.	FOLDING
F.T.	FIRE TREATED
FTG.	FOOTING
F.V.	FIELD VERIFY
FWD.	FORWARD
FDN.	FOUNDATION
FRAMG.	FRAMING
FURRG.	FURRING
GALV.	GALVANIZED
GA.	GAUGE
GB.	GRAB BAR
GR.	GRADE
GYP.	GYPSUM
HDBD.	HARDBOARD
HDWD.	HARDWOOD
H.	HIGH
HD.	HAND DRYER
HT.	HEIGHT
HORIZ.	HORIZONTAL
H.C.W.	HOLLOW CORE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HW.	HARDWOOD
IBC	INTERNATIONAL BUILDING CODE
INFILTR.	INFILTRATION
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
IRRIG.	IRRIGATION
JT.	JOINT
L.	LONG
LAM.	LAMINATED
LAMIN.	LAMINATE
LAT.	LATERAL
L.M.B.	LIQUID MARKER BOARD
LT.	LIGHT
M.	MIRROR
M.H.	MAN HOLE
MANUF.	MANUFACTURER
M.O.	MASONRY OPENING
MB	MASONRY BEAM
MAS.	MASONRY
MAX	MAXIMUM
MDPD	MEDIUM-DENSITY PARTICLE BOARD
MEMB.	MEMBRANE
MET.	METAL
MIN	MINIMUM
NONPERF.	NONPERFORATED
NTS .	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPNG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
O.S.	OVERFLOW SCUPPER
¢	PENNY
PERF.	PERFORATED
PERIM.	PERIMETER
PL	PLATE
PLYWD.	PLYWOOD
PLAST.	PLASTIC
P.O.C.	POINT OF CONNECTION
POS.	POSITIVE
LB.	POUND
PREFAB.	PREFABRICATED
PREMANUF.	PREMANUFACTURED
PT	PAINT
P.T.	PRESSURE TREATED
PTD.	PAPER TOWEL DISPENSER
R	RADIUS
R.B.	RUBBER BASE
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCED
REQD.	REQUIRED
RESIST	RESIST
RET.	RETAINING
RETRACT.	RETRACTABLE
REV.	REVISION
R.O.	ROUGH OPENING
SALV.	SALVAGE
SCHED.	SCHEDULE
S.C.	SEALED CONCRETE
S.D.	SOAP DISPENSER
SERV.	SERVICE
SHEATHG.	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
SOFTWD.	SOFTWOOD
S.C.W.	SOLID CORE
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STOR.	STORAGE
STRUCT.	STRUCTURAL
SURFS.	SURFACES
SUSP.	SUSPENDED
SV.	SHEET VINYL
SYNTH.	SYNTHETIC
SYST.	SYSTEM
TEL.	TELEPHONE
T.V.	TELEVISION
TEMPRD.	TEMPERED
TEMP.	TEMPORARY
TEXT.	TEXTURE
T	THICK
THICK	THICKENED
THRESH.	THRESHOLD
T&G	TONGUE & GROOVE
T.O.	TOP OF
T.G.	TOP OF GRADE
T.O.D.	TOP OF ROOF DECK
T.S.	TOP OF SIDEWALK
T&B	TOP AND BOTTOM
TRANS.	TRANSITION
T.W.C.	TACKABLE WALL COVERING
TYP.	TYPICAL
UBC	UNIFORM BUILDING CODE
U.N.O.	UNLESS NOTED OTHERWISE
VAN.	VANITY
V.B.	VENTED BASE
VCT.	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.W.C.	VINYL WALL COVERING
WAINS.	WAINSCOT
WAREHSE.	WAREHOUSE
W	WIDE
W.C.	WATER CLOSET
W.F.	WIDE FLANGE
W/	WITH
W/O	WITH OUT
WD.	WOOD

KEYPLAN



VICINITY MAP



PASCO, WASHINGTON

NORTH

PROJECT TEAM

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COFFMAN ENGINEERS
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SCOTT KAHLER

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DESIGN DEVELOPMENT, LLC.
6415 E. 11TH AVENUE
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TEL: (612) 244-0682

CONTACT:
JT TURNBOW

SYMBOLS

BUILDING SECTION	A1 / A5.20	
WALL SECTION	A1 / A5.20	
DETAIL	A1 / A5.20	
ELEVATION MARK	100'-0" T.O.FLOOR	
REVISIONS	E	
WINDOW TYPES	01	SEE SHEET A6.01
FLOOR & WALL ASSEMBLIES	A1	SEE SHEET A8.00
ROOF ASSEMBLIES	A1	SEE SHEET A8.20
DOOR NUMBER	01	
EXTERIOR ELEVATION	A1/4.00	
INTERIOR ELEVATION	A1/4.00	

MATERIAL KEY

EARTH	WOOD BLKNG
CMU	CONT. WOOD
CONCRETE	BATT INSUL.
STEEL CONT.	RIGID INSUL.
PLYWOOD	CRUSHED GRAVEL
FINISH WOOD	SAND

DRAWING INDEX

VOLUME 1 (THIS SET)

VOLUME 2 (SEE SEPARATE SET)

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BW

JOB NUMBER
23053

REVISIONS

PASCO SCHOOL DISTRICT #1

9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
TITLE SHEET

SHEET
G1.00A

CODE ANALYSIS

PLANNING AND BUILDING CODE REQUIREMENTS:

Project Address:
Pasco School District – Orion High School
East Salt Lake Street
Pasco, WA 99301

Authorities having Jurisdiction:

City of Pasco	Jacob Gonzalez
Community & Economic	Community & Economic
Development Services	Development Director
525 N. 3rd Avenue	Tel: 509-545-3441
Pasco, WA 99301	

Building Code:
Applicable Requirements:
International Building Code, 2018 edition; with WAC amendments
ANSI A117.1 2017, ADA-AG Accessibility requirements
International Energy Conservation Code, 2021 edition; with WAC amendments

Construction type:	II - B
Occupancy class:	E, Educational uses for High School
Fire Protection:	NFPA 13 fire sprinkler system throughout building IFC 2018 Fire Flow requirements: Construction Type II-B, 65,000 (+/-) sf = 5,500 GPM with 4 hour duration (Table B105.1) Sprinkler 75% reduction = 1,375 GPM (IFC 2021, Section B105), revert to minimum of 1,500 GPM with 2 hour duration (Table B105.2)

Allowable Areas & Heights:
Allowable Areas / Heights: Type II-B Construction, "E" Occupancy

Allowable Area Factor (*Table 506.2*):	43,500 sf
Basic allowable height - sprinklered (*Table 504.3*):	75'
Allowable number of stories above *(Table 504.4):*	3

Increased Areas / Heights: (*Section 506*):

		Aa =	At +	(NS* If)
Allowable area (equation 5-1)	Aa	54,375	43,500	10,875
Tabular area per floor from table 506	At	43,500	Type II-B	Occ. "E"
Tabular area for non-sprinklered building	NS	14,500		
Area increase for frontage	If	0.75		

	Allowable	Actual
First Floor Area	54,375 (per floor)	41,048
Second Floor Area	54,375 (per floor)	24,802
Total Area	108,750	65,850 Complies

Fire Resistive Requirements for Construction Components:
Type II – B (*Tables 601, 602, and 706.4)*

Component:	Rating
Fire Walls	2 hour (see footnote a to Table 706.4)
Exterior bearing Walls:	no rating, non-combustible (see Table 601)
Exterior Non-Bearing Walls:	1 hour<10 feet, non-combustible (see Table 705.5) no rating elsewhere, non-combustible (see Table 705.5)
Exterior Openings:	no limits > 20 feet (reference Table 705.8)
Interior Bearing Walls:	no rating
Interior Non-Bearing Walls:	no rating
Structural Frame:	no rating
Permanent Partitions:	no rating
Shaft Enclosures:	no rating
Floor & Floor/Ceilings:	no rating
Roofs & Roof/Ceilings:	no rating Class "C" (Table 1505.1)

Flame Spread Requirements for Construction Components:
(*Table 803.13)* "E" Occupancy, Sprinkled building

Component:	E occupancies
Vertical Exits & Passageways:	B (flame spread 26-75)
Exit access corridors:	C (flame spread 76-200)
Rooms & enclosed spaces:	C (flame spread 76-200)

Note: A (flame spread 0-25, smoke developed 0-450)
B (flame spread 26-75, smoke developed 0-450)
C (flame spread 76-200, smoke developed 0-450)

Estimated Occupant Loads & Exiting:
See Code Summary Plans for occupant loads and exit patterns

Notes:
1. For E occupancy areas the maximum travel distance 250' (sprinklered building Table 1017.2) from the furthest point in any room to the point of entering a protected exit enclosure or exit discharge from the building.
2. Egress through intervening spaces is not allowed, unless the space is adjoining and accessory to the space being considered.
3. The maximum common path of egress (travel to point where two exit routes are available) shall not exceed 75'. Table 1006.2.1.

Sanitation Systems & Plumbing Fixtures: (note: see Commentary One for applicable code)

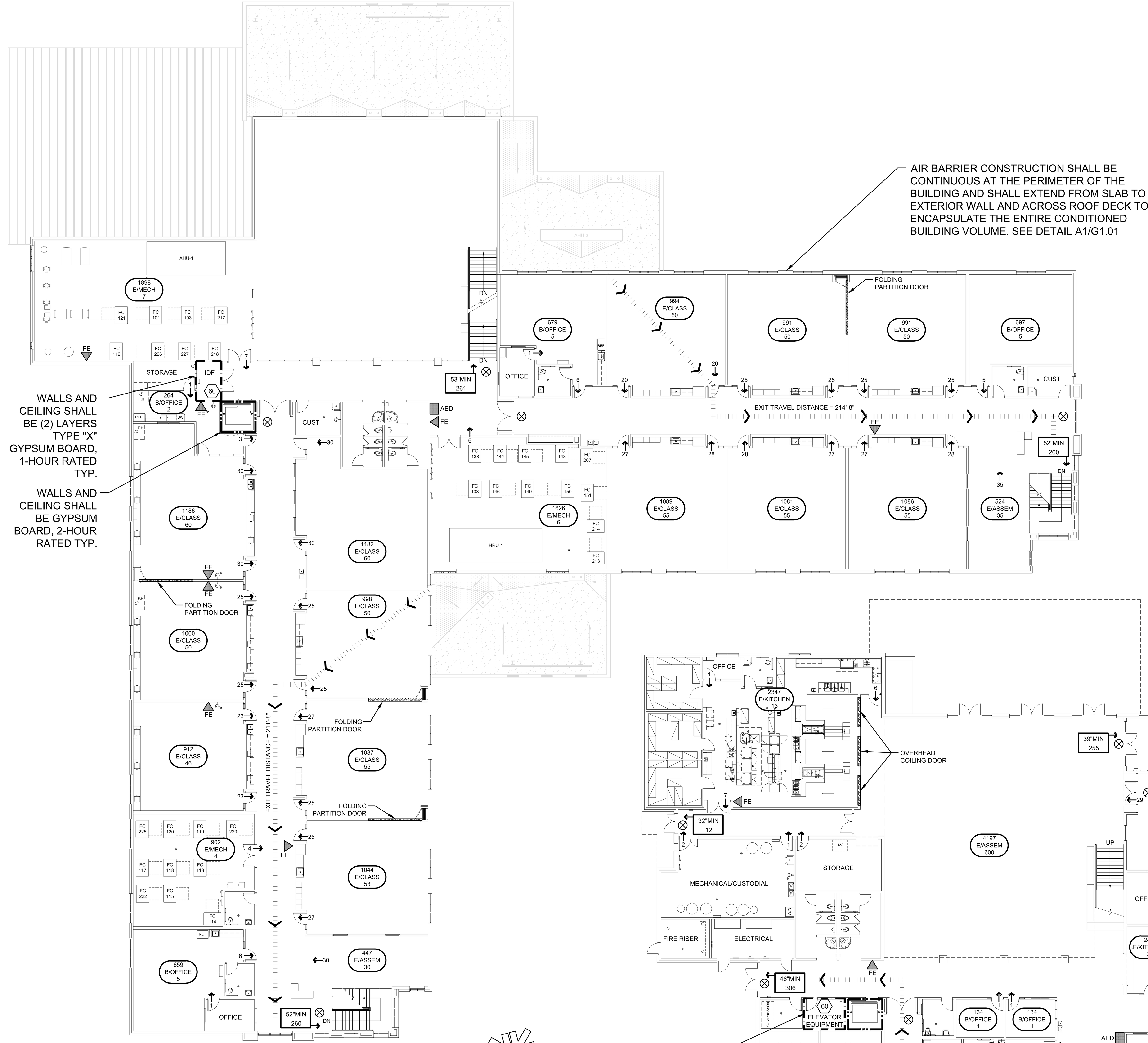
IBC Chapter 29, WAC Amended Table 2902.1 (using 2018 WAC amendments)
65,000 SF divided by 100 SF per occupant for High School Area = 650 occupants
= 325 male & 325 female:
Staff/Students

325 male =	10 w.c. required (1 per 35)	13 w.c. provided
=	5 lav. required (1 per 85)	12 lavs provided
325 female =	13 w.c. required (1 per 25)	14 w.c. provided
=	7 lav. required (1 per 50)	14 lavs provided
650 total users =	1 service sink required	4 service sinks provided

Drinking Fountains (WAC Section 2902.5)

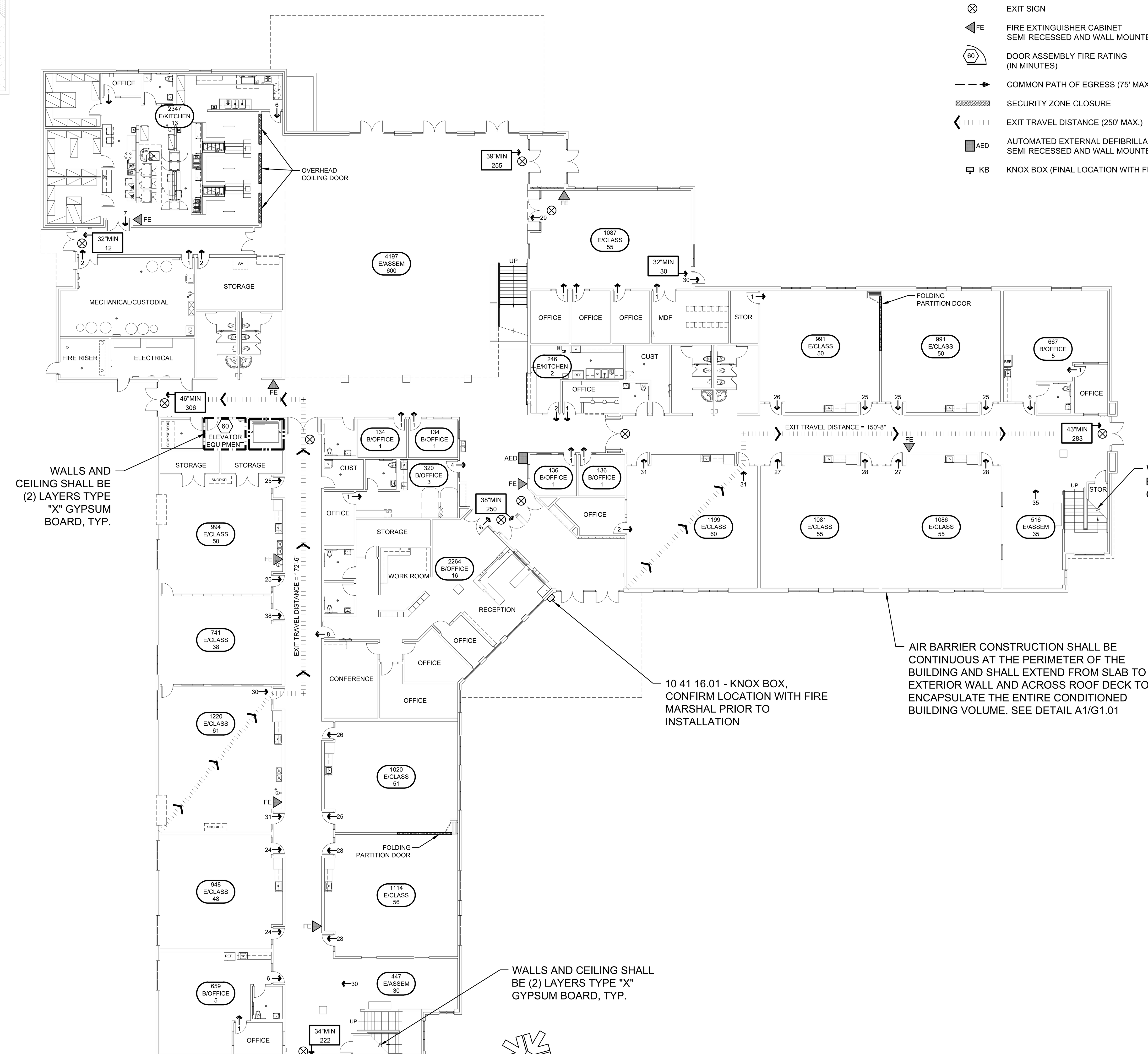
650 total users =	2 d.f. required	4 provided
=	2 bottle filling stations required	2 provided (1 each floor)

Notes:
1. Where urinals are provided, one water closet less than the number specified may be provided for each urinal installed, except the number of water closets in such cases shall not be reduced to less than one quarter (25%) of the minimum specified. (WAC 2902.1.1.2)



SECOND FLOOR PLAN

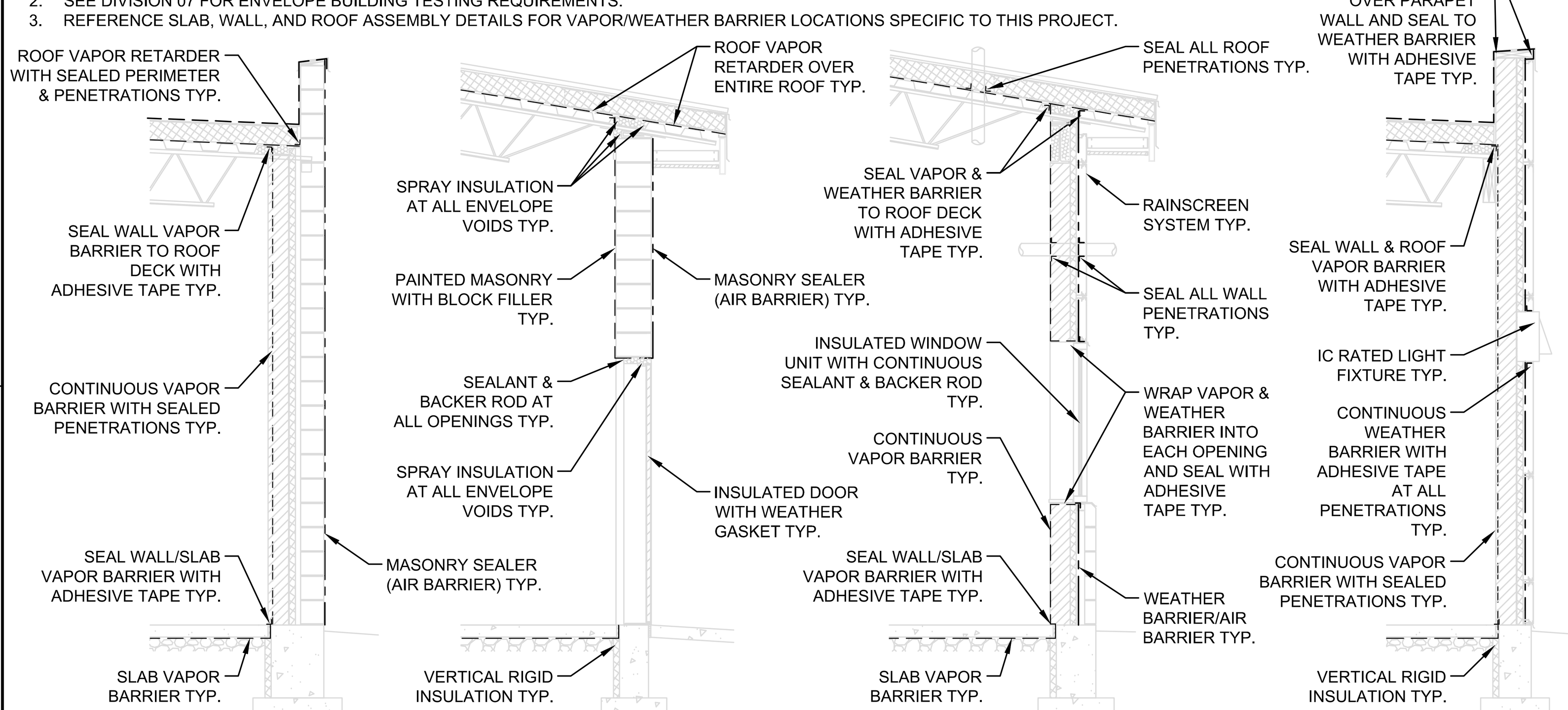
NORTH



FIRST FLOOR PLAN

NORTH

AIR BARRIER REQUIREMENTS:
1. CONTINUOUS AIR BARRIER SHALL COMPLY WITH WSEC C402.5.1.1.
2. SEE DIVISION 07 FOR ENVELOPE BUILDING TESTING REQUIREMENTS.
3. REFERENCE SLAB, WALL, AND ROOF ASSEMBLY DETAILS FOR VAPOR/WEATHER BARRIER LOCATIONS SPECIFIC TO THIS PROJECT.



A1 AIR BARRIER CONSTRUCTION
SCALE: N.T.S. — AIR BARRIER

A5 CODE SUMMARY
SCALE: N.T.S.

GENERAL NOTES

1. ALL NON-STRUCTURAL ELEMENTS SUCH AS SUSPENDED ACOUSTICAL CEILING, LIGHT FIXTURES, SOUND EQUIPMENT, DUCT SYSTEMS, FIRE SPRINKLER SYSTEMS, TALL CABINETS AND SHELVING AND SIMILAR ITEMS ARE TO BE BRACED FOR SEISMIC FORCE PER IBC.
2. ALL SHOP DRAWINGS THAT INVOLVE STRUCTURAL DESIGN MUST BE STAMPED AND SIGNED BY A WASHINGTON LICENSED ENGINEER.
3. COORDINATE FINAL KEY LOCK BOX(S) LOCATION WITH CITY OF PASCO FIRE MARSHAL DURING CONSTRUCTION.
4. U-FACTOR VALUES LISTED IN NREC ENVELOPE FORMS SHALL BE VERIFIED DURING CONSTRUCTION BY PRODUCT MANUFACTURERS THROUGH SUBMITTAL REVIEW.
5. COMPLY WITH WSEC C402.5.1.1 FOR CONTINUOUS AIR BARRIER. TAPE, SEAL, AND CAULK ALL PENETRATIONS AND SEAMS FOR CONTINUOUS AIR BARRIER. NO EXTERIOR ENVELOPE VOIDS SHALL BE PERMITTED.
6. LABEL FDC WITH ADDRESS NUMBER OF THE PROPERTY BEING SERVED. COORDINATE SPECIFIC REQUIREMENTS WITH PASCO FIRE DEPARTMENT

LEGEND

- 1 HR RATED SEPARATION (FIRE BARRIER IBC 707)
- 2 HR RATED SEPARATION (FIRE BARRIER IBC 707)
- 1,200 B/OFFICE 12 — S.F. OF SPACE; USE GROUP (CHAPTER 3) OCCUPANCY CATEGORY FACTOR (TABLE 1004.1.1); TOTAL OCCUPANTS
- 32"MIN 22 — REQ'D EXIT WIDTH (IBC 1005); OCCUPANT LOAD; EGRESS ROUTE
- EXIT SIGN
- FE — FIRE EXTINGUISHER CABINET SEMI RECESSED AND WALL MOUNTED
- 60 — DOOR ASSEMBLY FIRE RATING (IN MINUTES)
- COMMON PATH OF EGRESS (75' MAX.)
- SECURITY ZONE CLOSURE
- EXIT TRAVEL DISTANCE (250' MAX.)
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR CABINET SEMI RECESSED AND WALL MOUNTED
- KB — KNOX BOX (FINAL LOCATION WITH FIRE MARSHAL)

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PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
CODE SUMMARY

SHEET
G1.01

WSEC ENVELOPE SUMMARY

Project Title	Orion High School - 2018 WSEC					Date	Dec 15, 2023
U x A Calculation	NEW BUILDING - FULLY CONDITIONED					COMPLIES	
Opaque Envelope Assemblies		PROPOSED			TARGET		
Roof/Ceiling	Assembly ID	Roof/Ceiling Assembly U-Factor	Net Area (SF)	U x A	Roof/Ceiling Assembly U-Factor	Net Area (SF)	U x A
Insulation entirely above deck	R-1 (TPO)	0.024	4,931.0	118.3	0.027	4,931.0 (1)	133.1
Insulation entirely above deck	R-2 (MTL)	0.024	36,458.0	875.0	0.027	36,458.0 (1)	984.4
Walls	Assembly ID	Wall Assembly U-factor	Net Area (SF)	U x A	Wall Assembly U-factor	Net Area (SF)	U x A
Steel-framed - Commercial	N.2 (Brick)	0.051	10,919.0	556.9	0.055	10,919.0 (1)	600.5
Steel-framed - Commercial	N.4 (MTL)	0.051	12,720.0	648.7	0.055	12,720.0 (1)	699.6
Slab on Grade Floors		PROPOSED			TARGET		
Slab-on-grade Floors	Assembly ID	F-Factor	Perimeter Length (LF)	U x A	F-Factor	Perimeter Length (LF)	U x A
Unheated slab	S-1	0.54	1,097.0	592.4	0.54	1,097.0 (1)	592.4
Fenestration and Opaque Door Assemblies		PROPOSED			TARGET		
Opaque Doors	Assembly ID	Door Assembly U-Factor	Rough Opening (SF)	U x A	Door Assembly U-Factor	Rough Opening (SF)	U x A
Swinging	Metal Door	0.37	143.0	52.9	0.37	143.0 (1)	52.9
Roll-up	OVHD	0.34	144.0	49.0	0.34	144.0 (1)	49.0
Vertical Fenestration	Assembly ID	Fenestration Assembly U-Factor	Rough Opening (SF)	U x A	Fenestration Assembly U-Factor	Rough Opening (SF)	U x A
Fixed - Class AW or site built	Storefront North	0.38	1,012.0	384.6	0.38	1,012.0 (1)	384.6
Fixed - Class AW or site built	Storefront SEW	0.38	2,371.0	901.0	0.38	2,371.0 (1)	901.0
Curtain wall (external non-load bearing wall)	Curtain Wall SEW	0.38	514.0	195.3	0.38	514.0 (1)	195.3
All other fenestration types	Translucent Panel	0.23	48.0	11.0	0.30	48.0 (1)	14.4
All other fenestration types	Translucent Panel	0.23	272.0	62.6	0.30	272.0 (1)	81.6
Glazed Doors	Assembly ID	Door Assembly U-Factor	Rough Opening (SF)	U x A	Door Assembly U-Factor	Rough Opening (SF)	U x A
Swinging entrance door	Storefront	0.55	135.0	74.3	0.60	135.0 (1)	81.0
Swinging entrance door	Storefront	0.55	270.0	148.5	0.60	270.0 (1)	162.0

	Proposed Area	Proposed UxA	Target Area	Target UxA
Project Totals	71,034	4,670	71,034	4,932

Project Title	Orion High School - 2018 WSEC						Date	Dec 15, 2023
SHGC x A Calculation	NEW BUILDING - FULLY CONDITIONED						COMPLIES	
Fenestration and Opaque Door Assemblies			PROPOSED			TARGET		
Glazed Doors	Assembly ID	PF	Glazed Door SHGC	Rough Opening (SF)	SHGC x A	Glazed Door SHGC	Rough Opening (SF)	SHGC x A
Swinging entrance door	Storefront	PF < 0.2	0.12	135.0	16.2	0.51	135.0 (1)	68.9
Swinging entrance door	Storefront	PF < 0.2	0.12	270.0	32.4	0.38	270.0 (1)	102.6
Vertical Fenestration	Assembly ID	PF	Fenestration SHGC	Rough Opening (SF)	SHGC x A	Fenestration SHGC	Rough Opening (SF)	SHGC x A
Fixed - Class AW or site built	Storefront SEW	PF < 0.2	0.18	2,371.0	426.8	0.38	2,371.0 (1)	901.0
Curtain wall (external non-load bearing wall)	Curtain Wall SEW	PF < 0.2	0.19	514.0	97.7	0.38	514.0 (1)	195.3
All other fenestration types	Translucent Panel	PF < 0.2	0.30	272.0	81.6	0.38	272.0 (1)	103.4
Fixed - Class AW or site built	Storefront North	PF < 0.2	0.18	1,012.0	182.2	0.51	1,012.0 (1)	516.1
All other fenestration types	Translucent Panel	PF < 0.2	0.30	48.0	14.4	0.51	48.0 (1)	24.5

	Proposed Area	Proposed SHGC x A	Target Area	Target SHGC x A
Project Totals	9,244	1,702	9,244	3,823

WSEC LIGHTING SUMMARY

WSEC MECHANICAL SUMMARY

MECHANICAL COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

Project & Applicant Information	Project Title	Orion High School - 2018 WSEC	For Building Department Use:
	Project Address	1815 E Salt Lake Street Pasco, WA 99301	Date: Dec 15, 2023
	Applicant Name	Andres Rojo	
	Applicant Phone	509-783-2244	
	Applicant Email	arojo@designwestwa.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial	General Building Use Type		Education, Secondary (High)		Building Cond. Floor Area	69,320
General Project Types	New Building	New Building or Addition Mechanical Scope	Central Plant Systems Single Zone Systems & Equipment Multiple Zone Systems & Equipment	Alteration Mechanical Scope		Project Cond. Floor Area	69,320
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Mechanical Project Description	70,000 square foot high school served by a chiller/boiler plant, 4-pipe fan coil units, air handlers, and heat recovery units.						

	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?	Higher Equipment Efficiency Option Applied?	Equipment Efficiency Compliance Verification
Mechanical Compliance Scope and Method	Building Addition	Central Plant Systems	Yes	NA	Yes	COMPLIES
	New Building	Single Zone Systems & Equipment	No	Yes	Yes	COMPLIES
	New Building	Multiple Zone Systems & Equipment	No	Yes	Yes	COMPLIES
Additional Efficiency Credits Included (AEC)	Higher equipment efficiency and fan FEG					
Does building include occupancy classifications requiring DOAS?	Yes		Does project include DOAS equipment?			Yes
Based on project scope do TSPR requirements apply?	Yes		Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?			No

Scope & Space Conditioning	NEW CONSTRUCTION - CENTRAL PLANT SYSTEMS	Compliance Verification	COMPLIES

Chilled Water Plant

Equipment Efficiency Information

Equipment Type	Equipment ID	Cooling Capacity (Tons)	Efficiency Path	AEC Efficiency Multiplier	Econo Exception Multiplier	Econo Exception Multiplier Type (PL/Both)	Combined Efficiency Multiplier (AEC & Econo)	Proposed Full Load Efficiency	FL Units	Proposed IPLV Efficiency	PL Units	Efficiency Compliance Verification
Chiller, air cooled												
Positive displacement	CH-1	150	Path B	1.15	1.0	Both	1.15	11.340	150	19.950	IPLV	COMPLIES

Equipment Details

Equipment Type	Equipment ID	Cooling Load Served	Location in Documents - Plan/Detail #
Chiller, air cooled			

Heating Water Plant

Equipment Efficiency Information

Equipment Type	Equipment ID	Heating Capacity (MBH)	AEC Efficiency Multiplier	Proposed Heating Efficiency (%)	HE Units	Efficiency Compliance Verification
Boilers, hot water						
Gas-fired, packaged	B-1. B-2	1,500.0	1.15	96.0	Et	COMPLIES

Equipment Details

Equipment Type	Equipment ID	Heating Load Served	Location in Documents - Plan/Detail #	
Boilers, hot water				
Gas-fired, packaged	B-1. B-2{{detail-2275}}	Combination space heating & domestic hot water{{detail-2277}}	M1.01{{detail-2337}}	
	Heating Load Served: Combination space heating & domestic hot water			Supply temp reset control method (≥ 300 MBH): Return water temperature
	Burner part load controls (> 500 MBH): Modulating burner			Total capacity of overall HW system > 1,000 MBH?: Yes
	Boiler turndown ratio is required: 5 to 1 (>10,000 MBH)			Boiler turndown method: Modulating boilers
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(5) Gas- And Oil-Fired Boilers			

Scope & Space Conditioning	NEW BUILDING - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES

Single Zone Air Systems Category - Air handling unit, hydronic

Air Systems Summary Information

System/Equip ID	Supply Airflow Control	Ventilation Standard	Ventilation CFM	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
AHU-1	Variable air volume	IMC Ventilation	500	Integral		Not provided, not required	
AHU-2	Variable air volume	IMC Ventilation	1,200	Integral		Not provided, not required	
AHU-3	Variable air volume	IMC Ventilation	500	Integral		Not provided, not required	

Air Systems & Equipment - Cooling

System/ Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (Btu/h)	AEC Efficiency Multiplier	Econo Exception Multiplier (FL & PL)	Combined Efficiency Multiplier (AEC & Econo)	Proposed Cooling Efficiency	CE Units	Proposed Part Load Efficiency	PL Units	Efficiency Compliance Verification
AHU-1	Chilled water coil		95,000	1.15		0					COMPLIES
AHU-2	Chilled water coil		283,000	1.15		0					COMPLIES
AHU-3	Chilled water coil		95,000	1.15		0					COMPLIES

Air Systems & Equipment - Heating

System /Equip ID	Heating System/Equip Type	Specific Type	Heating Capacity	HC Units	AEC Efficiency Multiplier	Proposed Heating Efficiency	HE Units	Efficiency Compliance Verification
AHU-1	Hot water coil		119,000	Btu/h	1.15			COMPLIES
AHU-2	Hot water coil		484,000	Btu/h	1.15			COMPLIES
AHU-3	Hot water coil		119,000	Btu/h	1.15			COMPLIES

Air Systems & Equipment Details

System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #
AHU-1{{detail-2289}}	KITCHEN{{detail-2255}}	M1.02{{detail-2272}}
	Cooling Capacity Source: CH-1	
	Heating Capacity Source: B-1, 2	
AHU-2{{detail-2289}}	COMMONS{{detail-2255}}	M1.02{{detail-2272}}
	Cooling Capacity Source: CH-1	
	Heating Capacity Source: B-1, 2	
AHU-3{{detail-2289}}	133, 133A, 133B, 133C{{detail-2255}}	M1.02{{detail-2272}}
	Cooling Capacity Source: CH-1	
	Heating Capacity Source: B-1, 2	

Single Zone Air Systems Category - Fan coil unit, hydronic & VRF

Air Systems Summary Information

System/Equip ID	Quantity of Items	Supply Airflow Control	Ventilation Standard	Ventilation CFM (Total if Multiple Items)	Ventilation Air Source	Paired with DOAS
FC-101		Staged volume	IMC Ventilation	125	Separate DOAS	HRU-2
FC-103		Staged volume	IMC Ventilation	1,425	Separate DOAS	HRU-2
FC-112		Staged volume	IMC Ventilation	175	Separate DOAS	HRU-2
FC-113		Staged volume	IMC Ventilation	525	Separate DOAS	HRU-2
FC-114		Staged volume	IMC Ventilation	575	Separate DOAS	HRU-2
FC-115		Staged volume	IMC Ventilation	175	Separate DOAS	HRU-2
FC-117		Staged volume	IMC Ventilation	150	Separate DOAS	HRU-2
FC-118		Staged volume	IMC Ventilation	500	Separate DOAS	HRU-2
FC-119		Staged volume	IMC Ventilation	2,160	Separate DOAS	HRU-2
FC-120		Staged volume	IMC Ventilation	375	Separate DOAS	HRU-2
FC-121		Staged volume	IMC Ventilation	1,800	Separate DOAS	HRU-2

DESIGN WEST ARCHITECTS, P.A.

www.designwestpa.com

PASCO SCHOOL DISTRICT #1

DRAWN BY AR, AG, AD

CHECKED BY BW

JOB NUMBER 23053

REVISIONS

9354 REGISTERED ARCHITECT BRANDON D. WILM STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE 12/18/2023

SHEET NAME WSEC SUMMARY

SHEET G1.02

NOTES:

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. SECURE ALL PROJECT AREAS AT THE END OF EACH DAY.
3. CONTRACTOR SHALL MAINTAIN EGRESS ROUTES, OPEN SIDEWALKS AND FIRE LANES THROUGHOUT THE DURATION OF THE PROJECT.
4. CLEAN AND REMOVE CONSTRUCTION DEBRIS DAILY. CONTRACTOR IS RESPONSIBLE TO PROTECT AND PRESERVE ALL EXISTING ADJACENT FINISHES DURING CONSTRUCTION.
5. SITE AND PROJECT SECURITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL TAKE MEANS NECESSARY FOR SITE SECURITY. REFERENCE SPECIFICATION 01 50 00.
6. CONTRACTOR SHALL COORDINATE DELIVERY ROUTES AND SHALL NOT COMPROMISE AUTOMOBILE OR EMERGENCY VEHICLES TRAFFIC ON SURROUNDING SURFACE STREETS THROUGHOUT THE DURATION OF THE PROJECT.
7. COORDINATE LOCATION OF ON-SITE SANITARY STATIONS WITH OWNER. PRIOR TO SETTING THE UNITS.
8. AT START OF CONSTRUCTION, CONTRACTOR SHALL COLLECT AND DISPOSE OF EXISTING GARBAGE AND DEBRIS DUMPED ON THE PROJECT SITE. CONTRACTOR SHALL INCLUDE SAME CLEAN-UP PROCEDURES FOR SOUTH PROPERTY IF BID ALT #7 IS ACCEPTED. FIELD VERIFY EXISTING CONDITIONS.

01 10 00 SCHEDULE SUMMARY:

1.1 CONTRACTUAL PERFORMANCE SCHEDULE

A. The contractor shall plan and execute the work, including any premium labor costs or special work scheduling, to comply with attaining substantial completion within:

1. **460 total consecutive calendar days** (April 2024 to July 2025). Commencement Date to be set with Notice to Proceed.
2. Initial and complete submittals shall be received no later than **100 days** after Notice to Proceed for review and comment. Failure to comply with this deadline shall constitute breach of contract, and shall be subject to liquidated damages. All closeout submittals shall be processed to allow timely Project Final Completion shall be achieved within 30 consecutive calendar days following the issuance of Substantial Completion. Reference specification 01 77 00 and Document A201 for Project Closeout and Final Completion requirements.
3. All lawn turf seeding, specified irrigation, soil preparation, landscape grading shall be installed throughout entire project limits no later than July 1, 2025. The contractor shall maintain the lawn turf areas per specification 32 92 00 until 100 days after substantial completion demonstrating that the lawn turf is established per specification 32 92 00. The 1-year warranty period shall begin on the date of Substantial Completion.
4. Project Final Completion shall be achieved within 30 consecutive calendar days following the issuance of Substantial Completion. Reference specification 01 77 00 and Document A201 for Project Closeout and Final Completion requirements. Failure to comply with this deadline shall constitute breach of contract, and shall be subject to liquidated damages.

B. Liquidated damages shall begin and accrue from the failure to meet any of the deadlines defined in items 1, 2, 3 and 4 as listed above in the project schedule

01 23 00 - ALTERNATES:

3.1 SCHEDULE OF ALTERNATES

A. Bid Alternate #1A: HVAC Controls. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No HVAC Controls.
2. Bid Alternate #2A: Provide direct digital controls in accordance with Division 23 and the Contract Documents as manufactured by Alerton

B. Bid Alternate #1B: HVAC Controls. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No HVAC Controls.
2. Bid Alternate #2B: Provide direct digital controls in accordance with Division 23 and the Contract Documents as manufactured by Automated Logic.

C. Bid Alternate #2: Distributed Antenna System. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: Provide testing of the radio frequency signal strength within the building once the building is totally enclosed including roof, exterior walls and exterior wall glazing installed, to determine if the Distributed Antenna System is necessary.
2. Bid Alternate #2: Provide complete Distributed Antenna System in the building including antennas, coaxial cable, connectors, amplifiers, enclosures, conduit and wiring as described in Section 28 31 73.
   a. Owner reserves the right to select this alternate until 45 days following the test to determine if the alternate is needed.

D. Bid Alternate #3: Maintenance Building. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No Building
2. Bid Alternate #3: Provide and construct stand-alone building. Reference sheet A3.30d and all drawings for additional requirements.

E. Bid Alternate #4: Storage Building. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No Building
2. Bid Alternate #4: Provide and construct stand-alone building. Reference sheet A3.30d and all drawings for additional requirements.

F. Bid Alternate #5: Commons TV Display Wall. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No TV Display Wall, rough-in for power, data and support backing
2. Bid Alternate #5: Provide and install TV Display Wall in Commons 134. Reference architectural and electrical drawings and specifications for additional requirements.

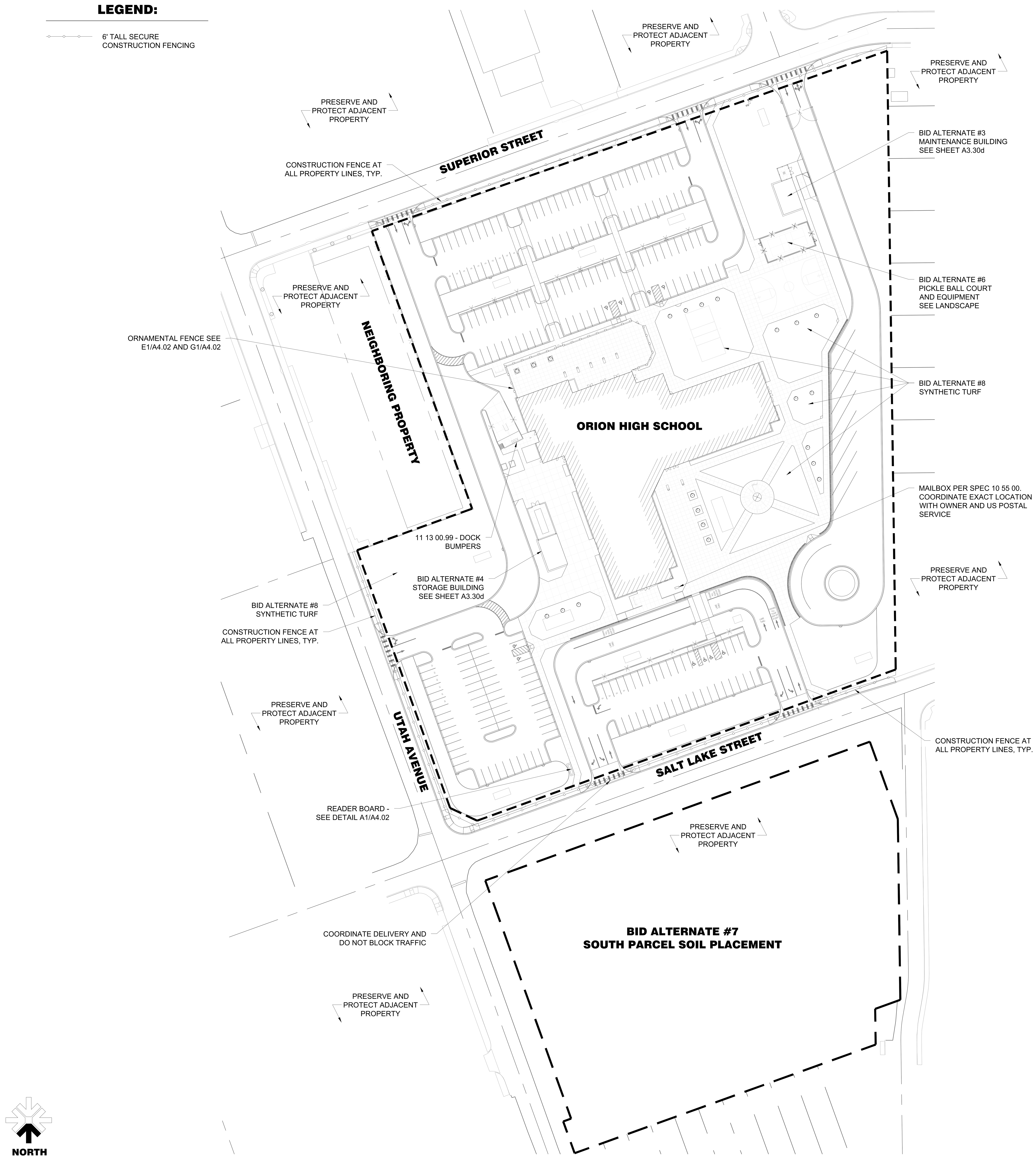
G. Bid Alternate #6: Pickle Ball Court and Equipment. Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No pickle ball court improvements
2. Bid Alternate #6: Provide and install pickle ball court, acrylic surfacing, net and posts, striping and fencing. Reference architectural, civil, and landscape drawings. See the following specifications for additional requirements:
   a. 32 17 24 Acrylic Surfacing for colored pickleball court surfacing and striping
   b. 12 93 00 Site Furnishings for net and posts
   c. 32 31 13 Chain Link Fencing and Gates for fence surrounding pickleball court and access gates.
   d. See civil drawings and concrete specifications for the paving section and execution.

H. Bid Alternate #7: South Parcel Soil Placement Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No off-site soil hauling placement
2. Bid Alternate #7: Include project scope to prepare south parcel for earthwork, then haul, place and compact excess soil to south property parcel. Reference architectural and civil drawings and Division 32 specifications for additional requirements.

I. Bid Alternate #8: Synthetic Turf Add all materials and labor required to provide the work shown on drawings and associated specifications, as identified in the Contract Documents.
1. Base Bid: No synthetic turf
2. Bid Alternate #8: At select areas identified on the landscape drawings, omit natural sod and replace with a synthetic turf system, including delegated design requirements and shop drawings. Bid alternate 8 includes one volleyball court in synthetic turf. Reference architectural and landscape drawings. See the following specifications for additional requirements:
   a. 32 18 13 Synthetic Turf for synthetic turf and volleyball court striping
   b. 12 93 00 Site Furnishings for volleyball net and removeable posts

LEGEND:

6' TALL SECURE CONSTRUCTION FENCING



A5 ARCHITECTURAL SITE PLAN

N.T.S

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DRAWN BY AR, AG, AD
CHECKED BY BW
JOB NUMBER 23053
REVISIONS

PASCO SCHOOL DISTRICT #1

REGISTERED ARCHITECT 9354 BRANDON D. WILM STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE 12/18/2023

SHEET NAME
PROJECT INFORMATION

SHEET
G1.03

GENERAL NOTES

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), THE CURRENT EDITION OF WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION M41-10, THE CITY STANDARDS AND SPECIFICATIONS, EASTERN WASHINGTON STORMWATER MANUAL, AND LOCAL RULES AND STANDARDS OF GOVERNING AGENCIES HAVING JURISDICTION.
2. PRIOR TO DIGGING VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE. CALL TWO BUSINESS DAYS BEFORE YOU DIG AT 811.
3. STATEMENT OF ERRORS, AMBIGUITIES AND OMISSIONS: ANY ERRORS, AMBIGUITIES, AND OMISSION IN DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO KNUTZEN ENGINEERING FOR CORRECTION BEFORE ANY PART OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED NO ADDITIONAL ALLOWANCE WILL BE MADE IN THE CONTRACTOR AND/OR MANUFACTURE'S FAVOR BY VIRTUE OF ERRORS, AMBIGUITIES, AND/OR OMISSIONS WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATE AND DIRECTED TO THE ATTENTION OF KNUTZEN ENGINEERING IN A TIMELY MANNER. KNUTZEN ENGINEERING ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY THE CONTRACTOR OR SUBCONTRACTORS CONTRARY TO THE PLANS OR SPECIFICATIONS. SUBSTITUTION OR CHANGES WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING. THE SUBCONTRACTOR SHALL REVIEW ALL SECTIONS OF SPECIFICATIONS AND ALL SHEETS OF THE PLANS FOR ANY INFORMATION OR DETAILS PERTAINING TO THEIR SPECIFIC TRADE.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS, INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP FABRICATION AND/OR FIELD ERECTION. DISCREPANCIES BETWEEN SITE CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR TO EXISTING UTILITIES.
5. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION OF OFF-SITE WORK THAT WILL ALLOW MINIMAL DISTURBANCE TO TRAFFIC FLOWS ON PUBLIC AND PRIVATE WAYS.
6. ALL SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY HIRED BY THE OWNER. CONTRACTOR TO COORDINATE WITH INSPECTION AND TESTING AGENCY FOR REQUIRED CONSTRUCTION INSPECTIONS AND MATERIAL TESTING.
7. CONTRACTOR SHALL PROTECT EXISTING PROPERTY CORNERS, IF CORNERS ARE DISTURBED THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A PROFESSIONAL LAND SURVEYOR TO RE-ESTABLISH THE PROPERTY CORNER(S).
8. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING GEOTECHNICAL REPORTS BY GN NORTHERN, INC.: GNN PROJECT NO. 223-1666, DATED JULY 2023, GNN PROJECT NO. 223-1666-1, DATED SEPTEMBER 2023.
9. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED CURBING OR SIDEWALK WITH IN THE RIGHT OF WAY PER CITY SPECIFICATIONS.
10. ALL ACCESSIBLE ACCESS PATHS, RAMPS, PARKING, AND SIGNAGE SHALL BE TO CURRENT ACCESSIBLE CODES.
11. CONTRACTOR TO CONTRACT WITH A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON TO PROVIDE CONSTRUCTION STAKING SERVICES. IN ACCORDANCE WITH CITY REQUIREMENTS, CONTRACTED SURVEYOR SHALL PROVIDE SURVEYED ASBUILTS AS WELL AS LEGAL DESCRIPTIONS REQUIRED TO RECORD NEW EASEMENTS OR VACATED OLD EASEMENTS (WHERE APPLICABLE) UPON COMPLETION OF PROJECT, 4 WEEKS PRIOR TO GOAL FOR OBTAINING CERTIFICATE OF OCCUPANCY.
12. COSTS FOR GENERAL CONSTRUCTION ITEMS WHICH ARE NOT SHOWN ON THESE DRAWINGS, BUT ARE NECESSARY AND NORMAL FOR COMPLETION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE CONTRACTORS BID FOR THIS PROJECT.

EARTHWORK

1. SITE CLEARING AND EARTHWORK SHALL ADHERE TO THE FOLLOWING GEOTECHNICAL REPORTS BY GN NORTHERN, INC.: GNN PROJECT NO. 223-1666, DATED JULY 2023, GNN PROJECT NO. 223-1666-1, DATED SEPTEMBER 2023.
2. AT THE START OF CONSTRUCTION AND SITE GRADING, EXISTING VEGETATION, TOPSOIL, ROOTS, ANY ARTIFICIAL FILL, TRASH AND DEBRIS, AND ANY ABANDONED UNDERGROUND UTILITIES SHALL BE FULLY REMOVED FROM THE AREA OF PROPOSED CONSTRUCTION. THE SURFACE SHALL BE STRIPPED OF ALL TOPSOIL AND/OR ORGANIC RICH SOILS THAT MAY EXIST WITHIN THE PROPOSED DEVELOPMENT AREAS. THE TOPSOIL AND ORGANIC RICH SOILS SHALL EITHER BE STOCKPILED ON-SITE OR REMOVED FROM THE CONSTRUCTION AREA.
3. BUILDING PAD AND FOUNDATION SUBGRADE PREPARATION REQUIREMENTS (RECOMPACTED/ENGINEERED FILL SUBGRADE): SUBGRADE SOILS SHALL BE OVER-EXCAVATED A MINIMUM DEPTH OF TWO FEET BELOW THE BOTTOM OF THE DEEPEST PROPOSED FOOTING. THE OVER-EXCAVATIONS SHALL BE UNIFORM ACROSS THE ENTIRE BUILDING PAD FOOTPRINT AND EXTENDED A MINIMUM LATERAL DISTANCE OF FIVE FEET BEYOND THE OUTER EDGE OF ALL FOOTINGS/BUILDING PAD. THE EXPOSED OVER-EXCAVATED SURFACE SHALL BE PROPERLY MOISTURE CONDITIONED AND THEN SCARIFIED TO A DEPTH OF 12 INCHES AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 TO A DENSE AND NON-YIELDING SURFACE PRIOR TO PLACEMENT OF ENGINEERED STRUCTURAL FILL. ANY SOFT AREAS ENCOUNTERED DURING COMPACTION SHALL BE OVER-EXCAVATED AN ADDITIONAL 12 INCHES AND REPLACED WITH COMPACTED ENGINEERED STRUCTURAL FILL. THEN THE OVER-EXCAVATION SHALL BE BACKFILLED WITH ONSITE SOURCED SANDY SOILS PLACED AS ENGINEERED STRUCTURAL FILL AS DESCRIBED IN THE EARTHWORK SECTION. PRIOR TO PLACING THE CRUSHED ROCK, THE PREPARED SUBGRADE SURFACE SHALL BE PROOF-ROLLED TO VERIFY FIRM AND UNYIELDING CONDITIONS. ANY AREAS DISPLAYING PUMPING OR DEFLECTION DURING PROOF-ROLLING SHALL BE OVER-EXCAVATED AND RECOMPACTED.
4. THE ONSITE NATIVE SANDY SOILS ARE GENERALLY SUITABLE FOR REUSE AS GENERAL FILL, ENGINEERED FILL, AND UTILITY TRENCH BACKFILL PROVIDED THE MATERIALS ARE MOISTURE CONDITIONED FOR COMPACTION AND FREE OF DELETERIOUS MATERIALS, ROOTS, ORGANIC MATTER, DEBRIS, FROZEN SOIL AND ROCK PARTICLES GREATER THAN 4 INCHES IN DIAMETER.
5. ALL STRUCTURAL FILL AND BACKFILL SHALL BE PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY, IN ACCORDANCE WITH ASTM D1557, AT AN EFFECTIVE AND WORKABLE MOISTURE CONTENT. THE ONSITE SOIL WILL TYPICALLY REQUIRE MOISTURE RANGE OF 2 TO 3% ABOVE THE OPTIMUM VALUE.
6. IMPORTED CRUSHED ROCK STRUCTURAL FILL SHALL CONSIST OF WELL-GRADED, CRUSHED AGGREGATE MATERIAL MEETING THE GRADING REQUIREMENTS OF SECTION 9-03.9(3) OF THE LATEST WSDOT STANDARD SPECIFICATIONS, I.E. 1-1/4" MINUS BASE COURSE MATERIAL.
7. IMPORTED FILL SOILS SHALL BE NON-EXPANSIVE, GRANULAR SOILS MEETING THE USCS CLASSIFICATIONS OF SM, SP-SM, OR SW-SM WITH A MAXIMUM ROCK SIZE OF 4 INCHES, MINIMUM 70% PASSING THE NO. 4 SIEVE, AND 5 TO 15% PASSING THE NO. 200 SIEVE (FINES SHALL BE NON-PLASTIC).
8. ALL TEST PIT LOCATIONS IDENTIFIED IN THE GEOTECHNICAL REPORTS SHALL BE RE-EXCAVATED AND BACKFILLED WITH SUITABLE FILL MATERIAL AND COMPACTED AS APPROPRIATE FOR THE LOCATION WITHIN THE BUILDING/STRUCTURE PADS IN ACCORDANCE WITH THE GEOTECHNICAL REPORTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE IN KIND ANY UTILITIES AND OR IRRIGATION PIPING DISTURBED AND OR DAMAGED DURING THE WORK.
10. ALL EXPOSED CUT SLOPES SHALL BE STABILIZED WITH HYDROMULCH TO PREVENT EROSION.
11. STORM PONDS/SWALES SIDEWALLS SHALL BE COMPACTED TO 85% MDD PER ASTM D1557. THE POND BOTTOM SHALL BE SCARIFIED TO A DEPTH OF 18 INCHES WITH A RIPPER UPON COMPLETION OF THE PONDS/SWALES PUSH OUT.

SITE UTILITIES

1. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED WITH THE CONTRACTOR, ENGINEER, ARCHITECT, CITY PERSONNEL, AND ANY AFFECTED UTILITIES PRIOR TO START OF UTILITY WORK.
2. ALL UTILITY IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY AND ALL PUBLIC WATERMAIN IMPROVEMENTS WITHIN THE PROPOSED WATER UTILITY EASEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS, SPECIFICATIONS AND AMENDMENTS.
3. MAINTAIN A MINIMUM OF 5' HORIZONTAL SEPARATION OF WATER LINE FROM BURIED POWER LINES. MAINTAIN 1' HORIZONTAL SEPARATION OF GAS LINES FROM BURIED POWER LINES.
4. FOR BUILDING SERVICES MAINTAIN A MINIMUM OF 1' HORIZONTAL AND VERTICAL SEPARATION OF WATER SERVICE AND SANITARY SEWER SERVICE LINES. WATER SERVICE SHALL BE PLACED ABOVE SANITARY SEWER SERVICE.
5. MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 1.5' VERTICAL SEPARATION OF WATER AND SANITARY SEWER MAIN LINES. WATER MAINS SHALL BE PLACED ABOVE SANITARY SEWER MAIN.
6. POLYVINYL CHLORIDE (PVC) IRRIGATION AND WATER PIPE SHALL BE AWWA C900 CLASS 235.
7. DUCTILE IRON (DI) WATER PIPE SHALL BE AWWA C151 CLASS 52. PIPE SHALL BE CEMENT MORTAR LINED PER AWWA C104.
8. FIRE WATER LINE INSTALLER SHALL BE LEVEL U INSTALLER PER WAC 212-80.
9. PIPE FITTINGS FOR PVC AND DI PIPE SHALL BE MORTAR LINED CAST OR DUCTILE IRON AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C110. FITTING CLASS AND JOINTS SHALL BE COMPATIBLE TO CONNECTING PIPE.
10. POLYETHYLENE TUBING (PE) WATER SERVICE LINE SHALL BE AWWA C901 RATED AT 200 PSI WITH COPPER TUBING OUTSIDE DIAMETER PER ASTM D 2737.
11. GATE VALVES 2" TO 8" SHALL CONFORM TO AWWA C515. VALVES SHALL BE DESIGNED FOR A MINIMUM OF 200 PSI, WITH IRON BODY, RESILIENT WEDGES, NRS 2" SQUARE WRENCH NUT WITH O-RING SEALS, AND SHALL OPEN WHEN THE STEM IS ROTATED COUNTERCLOCKWISE. APPROVED VALVE MANUFACTURES ARE CLOW, KENNEDY, MUELLER, M&H, WATEROUS OR UTILITY DEPARTMENT APPROVED EQUAL.
12. VALVE BOXES SHALL BE ADJUSTABLE CAST IRON SLIDING TYPE. VALVE BOXES SHALL BE IN ACCORDANCE WITH AWWA C600, SECTION 10.3. VALVE BOXES SHALL BE TYLER DOMESTIC #6855 OR UTILITY DEPARTMENT APPROVED EQUAL.
13. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
14. SANITARY SEWER PIPE SHALL BE PVC MANUFACTURED TO ASTM D3034-SDR 35 WITH RUBBER GASKETED JOINTS.
15. STORM DRAINAGE PIPE SHALL BE PVC OR CORRUGATED POLYETHYLENE (PE). PVC PIPE SHALL BE MANUFACTURED TO ASTM D3034-SDR 35 WITH RUBBER GASKETED JOINTS. PE PIPE SHALL BE MANUFACTURED TO AASHTO M252 OR M294 WITH SMOOTH INTERIOR.
16. PERFORATED STORM DRAINAGE PIPE SHALL BE CORRUGATED POLYETHYLENE (PE) TUBING AND FITTINGS WITH SMOOTH INTERIOR MANUFACTURED TO ASHTO M-252 AND M-294.
17. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE ON THE CURRENT WASHINGTON STATE DEPARTMENT OF HEALTH LIST OF APPROVED ASSEMBLIES.
18. ALL BEDDING AND BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557. REMOVE ALL DEBRIS FROM THE AREA TO BE BACKFILLED PRIOR TO BACKFILLING. PLACE BACKFILL IN LAYERS NOT MORE THAN 12 INCHES THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMLY TO THE REQUIRED DENSITY.

ASPHALT PAVEMENT

1. PRIOR TO BEGINNING WORK, CONTACT THE OWNER/CITY OR COUNTY OFFICIAL TO COORDINATE TRAFFIC FLOW, WORK SCHEDULES AND UTILITY INTERFACES.
2. ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS, SPECIFICATIONS AND AMENDMENTS.
3. PAVEMENT SUBGRADES SHALL CONSIST OF NATIVE SILTY SAND OR NATIVE POORLY GRADED SAND. THE UPPER 12 INCHES OF SUBGRADE SOILS BENEATH THE PAVEMENT SECTION SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND RE-COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. THE CRUSHED GRAVEL BASE SHALL BE COMPACTED TO A MINIMUM OF 95% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY. ALL FILLS USED TO RAISE LOW AREAS SHALL BE COMPACTED ONSITE SOILS OR STRUCTURAL FILL AS OUTLINED IN THE EARTHWORK SECTION. THE FINISHED SURFACE SHALL BE SMOOTH, UNIFORM AND FREE OF LOCALIZED WEAK/SOFT SPOTS. ALL SUBGRADE DEFICIENCY CORRECTIONS AND DRAINAGE PROVISIONS SHALL BE MADE PRIOR TO AGGREGATE BASE COURSE.
4. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS M41-10, SECTION 8-22. CONTRACTOR SHALL USE WSDOT APPROVED MATERIALS, PREPARE THE SURFACES, APPLY THE PAINT, AND BE WITHIN THE TOLERANCES AS SPECIFIED IN THE WSDOT STANDARD SPECIFICATIONS. DO NOT USE BEADED TOP COATING.
5. ASPHALT BINDER SHALL BE IN ACCORDANCE WITH STATE OF WASHINGTON STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION M41-10, SECTION 9-02.1(4).
6. ASPHALT BINDER MATERIAL SHALL CONFORM TO THE LATEST WSDOT STANDARD SPECIFICATION M41-10, SECTION 9-02.1(4) EXCLUDING THE ELASTIC RECOVERY REQUIREMENTS. AGGREGATE SHALL BE CLASS 1/2" MODIFIED WITH OVER 50% 3/8" AGGREGATE" AND SHALL CONFORM TO THE LATEST WSDOT STANDARD SPECIFICATION M41-10 SECTIONS 9-03.8(1), (2), (3)A AND (3)B. BLENDING SAND SHALL CONFORM TO THE LATEST WSDOT STANDARD SPECIFICATION 9-03.8(4).
7. ALL ASPHALT AND BASE THICKNESSES NOTED ARE COMPACTED THICKNESS.
8. ONE DAY PRIOR TO PLACEMENT OF BITUMINOUS MATERIAL ON THE BASE, THE SURFACE SHALL BE STERILIZED WITH A SOIL HERBICIDE.
9. ALL CONCRETE TRUCKS TO RETURN TO CONCRETE PLANT TO WASHOUT DURING CONSTRUCTION. NO WASHOUT ALLOWED ON PROJECT LIMITS.

FOUNDATIONS

1. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING GEOTECHNICAL REPORTS BY GN NORTHERN, INC.: GNN PROJECT NO. 223-1666, DATED JULY 2023, GNN PROJECT NO. 223-1666-1, DATED SEPTEMBER 2023.
2. SHALLOW FOUNDATION AND FLOOR SLAB SUBGRADES SHALL BE PREPARED IN ACCORDANCE WITH THE EARTHWORK SECTION.
3. SHALLOW FOUNDATIONS SHALL BE CONSTRUCTED TO BEAR ON A 12" COMPACTED LAYER OF IMPORTED 1-1/4" MINUS CRUSHED ROCK STRUCTURAL FILL (REFER TO EARTHWORK NOTES FOR GRADATION REQUIREMENTS) PLACED ATOP THE IMPROVED RECOMPACTED/ENGINEERED FILL SUBGRADE AS DESCRIBED IN THE EARTHWORK SECTION. THE CRUSHED ROCK SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 AND SHALL EXTEND 24 INCHES BEYOND ALL SIDES OF THE FOUNDATIONS.
4. CONCRETE FLOOR SLABS SHALL BE SUPPORTED ON THE PREPARED NATIVE SILTY SAND, GRAVEL OR COMPACTED STRUCTURAL FILL PLACED ON THE NATIVE SOILS. A MINIMUM 6" LAYER OF 3/4" MINUS CRUSHED AGGREGATE FILL SHALL BE PLACED ON AN IMPROVED RECOMPACTED/ENGINEERED FILL SUBGRADE AS DESCRIBED IN THE EARTHWORK SECTION. THE CRUSHED AGGREGATE MATERIAL SHALL MEET SECTION 9-03.9(3), "CRUSHED SURFACING TOP COURSE", OF THE LATEST WSDOT STANDARD SPECIFICATIONS, AND SHALL HAVE LESS THAN 5 PERCENT PASSING THE NO. 200 SIEVE. THE CRUSHED ROCK MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

CONCRETE

1. ALL FRONTAGE IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS, SPECIFICATIONS AND AMENDMENTS.
2. CONCRETE SUBGRADES SHALL CONSIST OF NATIVE SILTY SAND OR NATIVE POORLY GRADED SAND. THE UPPER 12 INCHES OF SUBGRADE SOILS BENEATH THE CONCRETE SECTION SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND RE-COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. THE CRUSHED GRAVEL BASE SHALL BE COMPACTED TO A MINIMUM OF 95% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY. ALL FILLS USED TO RAISE LOW AREAS SHALL BE COMPACTED ONSITE SOILS OR STRUCTURAL FILL AS OUTLINED IN THE EARTHWORK SECTION. THE FINISHED SURFACE SHALL BE SMOOTH, UNIFORM AND FREE OF LOCALIZED WEAK/SOFT SPOTS. ALL SUBGRADE DEFICIENCY CORRECTIONS AND DRAINAGE PROVISIONS SHALL BE MADE PRIOR TO AGGREGATE BASE COURSE.
3. CONCRETE FOR PAVING AND CURBS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, AND 3,500 PSI AT 28 DAYS FOR SIDEWALKS AND FLATWORK.
4. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED. FABRICATE REINFORCEMENT PER ACI 318, CLASS "B" SPLICES UNLESS NOTED OTHERWISE.
5. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185.
6. TOOL ALL EXPOSED EDGES WITH A 3/8" RADIUS UNLESS OTHERWISE INDICATED.
7. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 305 OR 306 FOR HOT AND COLD WEATHER CONCRETING.
8. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE BASED ON A 10'-0 STRAIGHT EDGE. GRADE SHALL NOT DEVIATE MORE THAN 1/8" AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4".
9. PROVIDE SEALED EXPANSION JOINTS BETWEEN BUILDING FOUNDATION WALL AND ALL ADJACENT SIDEWALK.

SPECIAL INSPECTION

1. PER IBC 1705.6, PRIOR TO PLACEMENT OF PREPARED FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED GEOTECHNICAL REPORTS.
2. PER IBC 1705.6, WHERE FILL EXCEEDS 12" IN DEPTH, THE SPECIAL INSPECTOR SHALL HAVE CONTINUOUS INSPECTION OF FILL PLACEMENT AND COMPACTION.
3. TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1557, ASTM D 2167, ASTM D 2937, ASTM D 6938, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES:
   A. FOUNDATION, PAVING, AND ADJACENT: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST FOR EVERY 5,000 SQ. FT. OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN 1 TEST PER DAY.
   B. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST 1 TEST FOR EACH 150 FEET OR LESS OF TRENCH LENGTH, BUT NO LESS THAN 1 TEST PER DAY.
4. COMPACTION TESTING IS REQUIRED AT THE ABOVE SCHEDULE UNLESS GREATER TESTING IS RECOMMENDED BY STRUCTURAL DRAWINGS. LESS TESTING WOULD BE ACCEPTABLE IF APPROVED IN WRITING BY GEOTECHNICAL ENGINEER, SPECIAL INSPECTOR, FOUNDATION ENGINEER, AND KNUTZEN ENGINEERING.

EROSION CONTROL

1. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES, WALKWAYS, AND DESIGNATED STORMWATER SWALES ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
2. ESTABLISH CONSTRUCTION ACCESS.
   A. CONSTRUCTION VEHICLE ACCESS AND EXIT SHALL BE LIMITED TO ONLY NECESSARY LOCATIONS. ACCESS POINTS SHALL BE STABILIZED WITH QUARRY SPALL OR CRUSHED ROCK TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS, MINIMUM 100 FEET LONG.
   B. WHEEL WASH OR TIRE BATHS SHOULD BE LOCATED ON-SITE, IF NEEDED TO PREVENT EXCESSIVE TRACKING OF SEDIMENT ON ROADS.
   C. PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
   D. STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE, OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS.
   E. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:
      I. GRAB TENSILE STRENGTH (ASTM D4632) 200 PSI/MINUTE.
      II. GRAB TENSILE ELONGATION (ASTM D4632) 30% MAXIMUM.
      III. MULLEN BURST STRENGTH (ASTM D3786-80A) 400 PSI/MINUTE.
      IV. AOS (ASTM D4751) 20 TO 45 (US STANDARD SIEVE SIZE).
   F. CONSIDER EARLY INSTALLATION OF THE FIRST LIFT OF ASPHALT IN AREAS THAT WILL BE PAVED; THIS CAN BE USED AS A STABILIZED ENTRANCE. ALSO CONSIDER THE INSTALLATION OF EXCESS CONCRETE AS A STABILIZED ENTRANCE. DURING LARGE CONCRETE POURS, EXCESS CONCRETE IS OFTEN AVAILABLE FOR THIS PURPOSE.
   G. WHENEVER POSSIBLE, THE ENTRANCE SHALL BE CONSTRUCTED ON A FIRM, COMPACTED SUBGRADE. THIS CAN SUBSTANTIALLY INCREASE THE EFFECTIVENESS OF THE PAD AND REDUCE THE NEED FOR MAINTENANCE.
   H. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
   I. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.
   J. ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD, WHICH END UP ON THE ROADWAY, SHALL BE REMOVED IMMEDIATELY.
   K. UNTIL PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCING TO PREVENT ANY WATER RUNOFF FROM ANY DISTURBED AREAS. AT A MINIMUM, SILT FENCE WILL BE ALONG THE DOWN SLOPE PROPERTY LINES. THE SILT FENCES SHALL BE CONSTRUCTED IN THE AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES. THE SILT FENCE SHALL PREVENT SOIL CARRIED BY RUNOFF WATER FROM GOING BENEATH, THROUGH, OR OVER THE TOP OF THE SILT FENCE, BUT SHALL ALLOW THE WATER TO PASS THROUGH THE FENCE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND MAINTAINING A DUST CONTROL PLAN. DUST CONTROL SHALL BE IN ACCORDANCE WITH ALL LOCAL ORDINANCES. ALL DUST CONTROL MEASURES SHALL BE DONE WITH A PERSON OPERATED WATERING DEVICE (E.G. WATER TRUCK, WATER WAGON, ETC.) NO UNATTENDED WATERING ALLOWED. NO IRRIGATION LINES OR OTHER IRRIGATION/SPRINKLER TYPE WATERING DEVICES ALLOWED.
5. CONTRACTOR SHALL PROTECT EXISTING STORMWATER INLETS WITH INLET PROTECTION.
6. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
7. REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE THEY ARE NO LONGER NEEDED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

STORMWATER SYSTEM OPERATION AND MAINTENANCE - (SECTION NOT FINALIZED, PENDING KE REVIEW)

1. CATCH BASINS
   A. REMOVE SEDIMENT, TRASH AND DEBRIS WHEN GRATE BECOMES CLOGGED MORE THAN 10%.
   B. REMOVE SEDIMENT, TRASH AND DEBRIS IN SUMP THAT EXCEEDS 60% OF SUMP DEPTH AS MEASURED FROM BOTTOM OF BASIN TO INVERT OF LOWEST PIPE, BUT IN NO CASE SHALL THE CLEARANCE FROM TOP OF DEBRIS TO INVERT OF LOWEST PIPE BE LESS THAN 6". NO VEGETATION SHALL BE ALLOWED TO GROW IN SUMP. AT A MINIMUM, REMOVE SEDIMENT, TRASH AND DEBRIS IN SUMP ANNUALLY.
   C. STRUCTURAL DAMAGE TO FRAME, GRATE, TOP SLAB, OR SUMP, SHALL BE REPAIRED OR REPLACED. STRUCTURAL DAMAGE INCLUDES CRACKS GREATER THAN 1/4" OR HOLES GREATER THAN 2" IN TOP SLAB, FRAME NOT SITTING FLUSH ON TOP SLAB (MORE THAN 3/4" SEPARATION) OR NOT SECURELY ATTACHED, CRACKS GREATER THAN 1/4" IN SUMP WALLS, SOIL ENTERING SUMP, CRACKS AT GROUT FILLET AROUND PIPES IN EXCESS OF 1/2", SETTLEMENT OF ENTIRE BASIN SUCH THAT IT CREATES A SAFETY, FUNCTION OR DESIGN PROBLEM.
   D. REPLACE ANY MISSING GRATE OR REPAIR IF GRATE IS DIFFICULT TO REMOVE. REPLACE GRATE IF OPENINGS GREATER THAN 7/8" OR GRATE HAS MISSING OR BROKEN BARS.
2. INFILTRATION BASINS
   A. REMOVE TRASH AND DEBRIS AT LEAST 2 TIMES PER YEAR AND WHEN ACCUMULATION EXCEEDS 1 CUBIC FOOT PER 1000 SQUARE FOOT OF POND.
   B. REMOVE SEDIMENT ACCUMULATIONS IN POND IN EXCESS OF 2" AND AT LEAST ONCE PER YEAR.
   C. IF EROSION OR SETTLEMENT OF POND SIDE SLOPES OCCURS, REPAIR TO MATCH ORIGINAL DESIGN CONDITIONS. IF POND SIDE SLOPES CONTINUE TO SETTLE, CONSULT A REGISTERED ENGINEER SINCE THIS COULD INDICATE A SEVERE UNDERLYING PROBLEM.
   D. TREES ARE NOT ALLOWED IN POND AREAS INCLUDING POND SIDE SLOPES. IF POOR VEGETATION COVER OCCURS OVER GREATER THAN 10% OF POND AREA, REPLACE VEGETATION AND DETERMINE WHY. CUT VEGETATION SUCH THAT IT DOES NOT EXCEED 10"
   E. IF RODENT HOLES OCCUR OR IF ANY EVIDENCE OF WATER PIPING OCCURS, REMOVE RODENTS AND COMPLETELY FILL VOIDS WITH BENTONITE CLAY, LEAN MIX CONCRETE, OR CONSOLIDATED DENSITY FILL.
   F. IF WATER REMAINS MORE THAN 72 HOURS AFTER CESSATION OF RAINFALL, A PERCOLATION TEST MUST DONE AND A REGISTERED ENGINEER CONSULTED.

STORMWATER PREVENTION POLLUTION PLAN

1. PRIOR TO STARTING ANY FIELD WORK ON THE PROJECT, CONTRACTOR SHALL COMPLETE AND SUBMIT ALL NECESSARY PAPERWORK TO TRANSFER THE OPERATOR OF THE STORMWATER PERMIT FROM KNUTZEN ENGINEERING TO THE CONTRACTOR FOR MANAGING THE PERMIT FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON (SWMMEW) AND SHALL BE RESPONSIBLE FOR MONITORING STORMWATER, INSPECTING BEST MANAGEMENT PRACTICE, PROVIDING A CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL), STORMWATER SAMPLING, MONTHLY REPORTING, KEEPING RECORDS AND TERMINATING THE PERMIT UPON COMPLETION.
2. WHENEVER INSPECTION AND OR MONITORING REVEALS THAT THE BMP'S IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO THE ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED, AS APPROPRIATE AND IN A TIMELY MANNER.
3. THE DISTRICT WILL PAY ALL ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT FEES FROM TIME OF OBTAINING PERMIT UNTIL PROJECT SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL REQUEST FINAL INSPECTION BY WASHINGTON DEPARTMENT OF ECOLOGY (DOE) WHEN PROJECT IS COMPLETE AND ENSURE THAT PERMIT COVERAGE IS SUCCESSFULLY TERMINATED. IF THE CONTRACTOR FAILS TO SUCCESSFULLY TERMINATE COVERAGE OF THE PROJECT WITH DOE PRIOR TO SUBSTANTIAL COMPLETION, ANY ADDITIONAL FEES AND/OR PENALTIES ACCRUED AFTER SUBSTANTIAL COMPLETION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

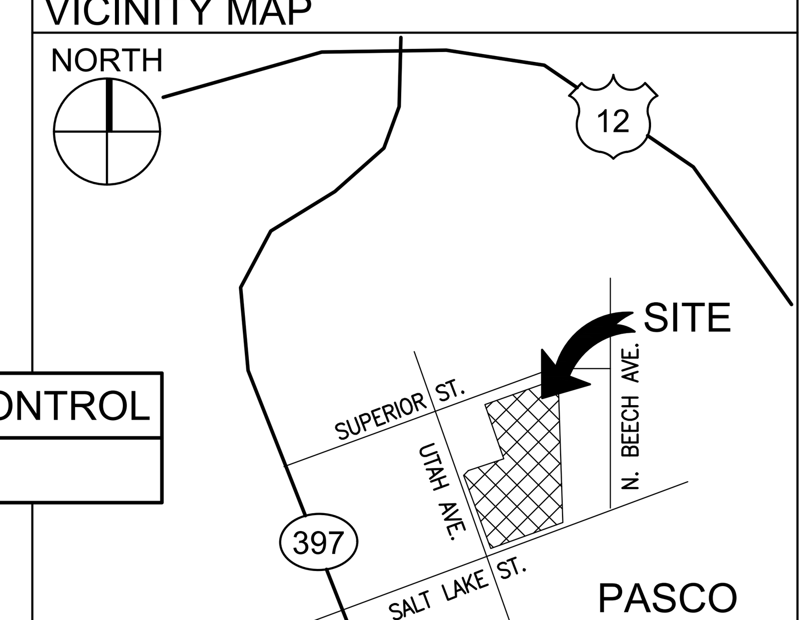
UNDERGROUND INJECTION CONTROL

SITE NUMBER: -

REFERENCE SOURCES

1. WASHINGTON STATE DEPARTMENT OF HEALTH CAN BE FOUND AT: https://www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/WaterSystemDesignandPlanning/CrossConnectionControlBackflowPrevention).
2. EASTERN WASHINGTON STORMWATER MANUAL CAN BE FOUND AT: (https://fortress.wa.gov/ecy/publications/documents/1810044.pdf).
3. WSDOT STANDARD PLANS CAN BE FOUND AT: (https://www.wsdot.wa.gov/Design/Standards/default.htm#StandardPlans).
4. FOR MUTCD STANDARD MANUAL CAN BE FOUND AT: (https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/mutcd2009r1r2edition.pdf).
5. THE CITY OF PASCO STANDARD SPECIFICATIONS AND DRAWINGS CAN BE FOUND AT: (https://www.pasco-wa.gov/409/City-Standards-Specifications).
6. THE CITY OF PASCO MUNICIPAL CODE CAN BE FOUND AT: (https://pasco.municipal.codes/).

VICINITY MAP



LEGEND AND ABBREVIATIONS

NEW	EXISTING	
		ACCESSIBLE PARKING MARKER
AVR	(E)AVR	AIR VAC RELIEF
AD	(E)AD	AREA DRAIN
GUY	(E)GUY	GUY WIRE
BOA	(E)BOA	BLOW OFF ASSEMBLY
BO	(E)BO	BOLLARD
		CAP
CB	(E)CB	CATCH BASIN ROUND/SQUARE
CB		CATCH BASIN SOLID
CO	(E)CO	CLEAN OUT
CDS	CDS	CONTINUOUS DEFLECTIVE SEPARATION UNIT
DS	(E)DS	DOWN SPOUT
DCVA	(E)DCVA	DOUBLE CHECK VALVE ASSEMBLY
DW	(E)DW	DRY WELL
EM	(E)EM	ELECTRICAL METER
V	V	ELECTRICAL VAULT
EV		ELECTRICAL VEHICLE VAULT
GM	(E)GM	GAS METER
FDC	(E)FDC	FIRE DEPARTMENT CONNECTION
FH	(E)FH	FIRE HYDRANT
FP	(E)FP	FLAG POLE
IV	(E)IV	IRRIGATION VALVE
LP	(E)LP	LIGHT POLE
SD SS MH	SD SS (E)MH	MANHOLE
		PAVEMENT ARROWS
PIV	(E)PIV	POST INDICATOR VALVE
PP	(E)PP	POWER POLE
RPBA	(E)RPBA	REDUCE PRESSURE BACKFLOW ASSEMBLY
		REDUCER
		SLOPE DIRECTION/PIPE SLOPE
SB	(E)SB	STORM BUBBLER
SIGN	(E)SIGN	STREET SIGN
SL	(E)SL	STREET LIGHT
TP	(E)TP	TELEPHONE PEDESTAL
		THRUST BLOCK
XFMR	(E)XFMR	TRANSFORMER
		TREE/SHRUB
T C P J	T C P J	UTILITY BOX
MC VAN EV COMPACT		PAVEMENT MARKING
WV	(E)WV	WATER VALVE
WM/IM	(E)WM/IM	WATER/IRRIGATION METER
WP	MON	WORK/MONUMENT POINT
YH	YH	YARD HYDRANT

NEW ASPHALT	EXISTING ASPHALT
NEW HEAVY ASPHALT	EXISTING CONCRETE
NEW HEAVY CONCRETE	EXISTING GRAVEL
NEW CONCRETE	EXISTING LAWN
NEW GRAVEL	EXISTING LANDSCAPE
NEW LAWN	REMOVE LANDSCAPE
NEW LANDSCAPE	REMOVE ASPHALT
NEW PLAY ASPHALT	REMOVE CONCRETE
NEW TRUNCATED DOMES	REMOVE GRAVEL
NEW RIP RAP	REMOVE LAWN

ABAND	ABANDONED		
BOT	BOTTOM	PDP	PERFORATED DRAIN PIPE
BW	BOTTOM OF WALL ELEVATION	PE	POLYETHYLENE
COM	COMMUNICATIONS	PS	PRESSURE SEWER
(E)	EXISTING	ROW	RIGHT-OF-WAY
FO	FIBER OPTICS LINE	R	RADIUS
FF	FINISH FLOOR	RWL	RAIN WATER LEADER
FG	FINISH GRADE	SS	SANITARY SEWER
FR	FIRE RISER	SLV	PIPE SLEEVE
FW	FIRE WATER	XXX.XX	SPOT ELEVATION
GL	GUTTER LINE	SD	STORM DRAIN
IE	INVERT ELEVATION	T	TELEPHONE
IR	IRRIGATION	TV	TELEVISION
LS	LANDSCAPE	TA	TOP OF ASPHALT ELEVATION
MON	MONUMENT	TC	TOP OF CONCRETE ELEVATION
NG	NATURAL GAS	TG	TOP OF GRAVEL ELEVATION
NIC	NOT IN CONTRACT	TW	TOP OF WALL ELEVATION
NTS	NOT TO SCALE	TYP	TYPICAL
OHP	OVERHEAD POWER	W	WATER
P	POWER		

SAWCUT LINE
NEW EASEMENT LINE
PROPERTY LINE
100 EXISTING CONTOUR
100 NEW CONTOUR
EXISTING FENCE
NEW FENCE
REMOVE FENCE
REMOVE SURFACE FEATURE
REMOVE UNDERGROUND UTILITY
ABANDONED UNDERGROUND UTILITY
EXISTING UNDERGROUND UTILITY
NEW UNDERGROUND UTILITY

DRAWING INDEX

OUTSIDE UTILITY ACKNOWLEDGEMENT

I AM CERTIFYING THAT I HAVE CONTACTED ALL OF THE IMPACTED OUTSIDE UTILITY PROVIDERS ASSOCIATED WITH THIS PROJECT. FURTHERMORE, I WILL WORK WITH THOSE UTILITIES TO ENSURE THAT THEIR INFRASTRUCTURE WILL BE ADDRESSED PRIOR TO THE START OF CONSTRUCTION WITHOUT CHANGE TO CITY APPROVED PLANS.

DESIGN WEST ARCHITECTS P.A.
MERIDIAN, IDAHO • PULLMAN, WASHINGTON • KENNEWICK, WASHINGTON • ONTARIO OREGON
www.designwestpa.com

DRAWN BY: SJT

CHECKED BY: ASW

JOB NUMBER: 23053/23109

REVISIONS

KNUTZEN ENGINEERING

CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: GENERAL NOTES AND LEGEND

SHEET: C0.01

EXISTING CONDITIONS SURVEY

OF BLOCKS 38, 20, 21, 37 AND A PORTION OF BLOCK 36 OF "FREY'S ADDITION TO PASCO" (B-16)
LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 20, T 9 N, R 30 E, W.M.
CITY OF PASCO
FRANKLIN COUNTY, WASHINGTON

JOB NUMBER: 23-215 AUGUST 3, 2023

SHEET 1 OF 2

LEGEND:

- INDICATES WATER VALVE
- INDICATES FIRE HYDRANT
- INDICATES WATER METER
- INDICATES CONTROL VALVE
- INDICATES TELEPHONE PEDESTAL
- INDICATES CATCH BASIN
- INDICATES SANITARY SEWER MANHOLE
- INDICATES SANITARY LATERAL
- INDICATES SANITARY CLEANOUT
- INDICATES POWER POLE WITH DIRECTION OF OVERHEAD LINES
- INDICATES GUY ANCHOR
- INDICATES LIGHT POLE
- INDICATES JUNCTION BOX
- INDICATES ELECTRIC VAULT
- INDICATES ELECTRIC SERVICE BOX
- INDICATES ADA RAMP
- INDICATES SIGN
- INDICATES MONUMENT FOUND AS NOTED
- INDICATES 5/8" IRON ROD WITH "BETHJE 38490" PLASTIC CAP SET.
- INDICATES MGS CONTROL POINT
- INDICATES DECIDUOUS TREE WITH TRUNK DIAMETER
- INDICATES BOUNDARY
- INDICATES EDGE OF ASPHALT
- INDICATES EDGE OF CONCRETE
- INDICATES 5 FOOT INTERVAL CONTOUR
- INDICATES 1 FOOT INTERVAL CONTOUR
- INDICATES FENCE LINE
- INDICATES ELECTRIC LOCATE
- INDICATES FIBER OPTIC LOCATE
- INDICATES GAS LOCATE
- INDICATES WATER LOCATE
- INDICATES SANITARY SEWER LOCATE

NOTE:

BOUNDARY INFORMATION SHOWN WAS CALCULATED FROM MONUMENTS FOUND AS SHOWN HEREON PER RECORD OF SURVEY BY STRATTON VOLUME 3, PAGE 668, VOLUME 4, PAGE 394 AND "DULUTH ESTATES" VOLUME D, PAGE 606. ALL ADJOINING PARCEL LINES ARE FOR RERENCE ONLY.

BASIS OF BEARING:
WASHINGTON SOUTH ZONE STATE PLANE COORDINATE SYSTEM, NAD83/2011. SCALE FACTOR 0.99993253 PER CITY OF PASCO MONUMENTS FOUND AT EAST QUARTER, SOUTH QUARTER (COP 69) AND SOUTHEAST (COP 67) CORNERS OF SECTION 20. CITY OF PASCO CONTROL MONUMENTS 128 AND 129 WERE ALSO TIED IN TO ESTABLISH COORDINATE SYSTEM. SCALE FACTOR APPLIED AT 0,0 AND DISTANCES SHOWN ARE GROUND.

NOT TO SCALE

50 25 0 50 75 100
SCALE 1 INCH = 50 FEET

KEVIN L. BETHJE
STATE OF WASHINGTON
38490
REGISTERED
PROFESSIONAL LAND SURVEYOR
8-03-2023

VERTICAL DATUM:
CITY OF PASCO MONUMENT 128 AS SHOWN HEREON,
NE OF CENTER OF SECTION 20
ELEVATION 427.02' NAVD88 (CITY OF PASCO) DATUM

NOTE:
A UTILITY LOCATE WAS SUBMITTED ON 6-22-2023 UNDER TICKET NUMBER 23247509. THE UNDERGROUND UTILITIES AS SHOWN HEREON ARE AS MARKED AT THE TIME OF THIS SURVEY. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. UNDERGROUND CONNECTIONS ARE SHOWN AS STRAIGHT LINES BETWEEN SURFACE LOCATIONS BUT MAY CONTAIN BENDS OR CURVES NOT SHOWN. SOME UNDERGROUND LOCATIONS HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. M.G.S. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS.

SITE SURVEY PROVIDED FOR INFORMATION ONLY

MGS
PASCO, INC.
809 S AUBURN ST
KENNEWICK, WA 99336
509-491-1071

A1 SURVEY
SCALE: NOT TO SCALE

DESIGN WEST ARCHITECTS, P.A.
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• KENNEWICK, WASHINGTON • ONTARIO OREGON •
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CHECKED BY	ASW
JOB NUMBER	23053/23109
REVISIONS	

12/18/23

KNUTZEN ENGINEERING
5401 RIDGELINE DR.
SUITE 160
KENNEWICK, WA 99338
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www.knutzenengineering.com
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SURVEY

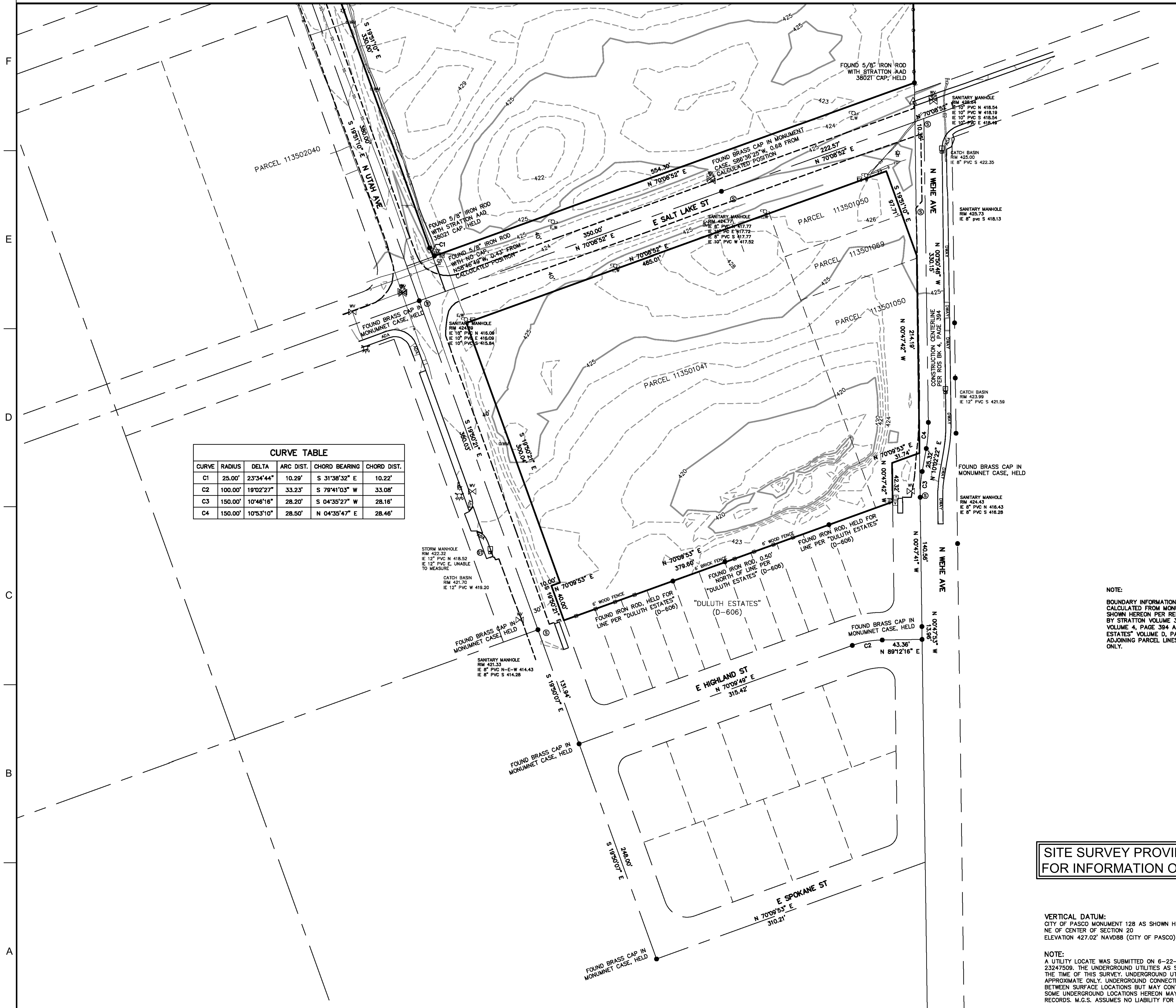
SHEET
C0.03

EXISTING CONDITIONS SURVEY

OF BLOCKS 38, 20, 21, 37 AND A PORTION OF BLOCK 36 OF "FREY'S ADDITION TO PASCO" (B-16) LOCATED IN A PORTION OF THE SE 1/4 OF SECTION 20, T 9 N, R 30 E, W.M.
CITY OF PASCO
FRANKLIN COUNTY, WASHINGTON

JOB NUMBER: 23-215 AUGUST 3, 2023

SHEET 2 OF 2



CURVE TABLE

CURVE	RADIUS	DELTA	ARC DIST.	CHORD BEARING	CHORD DIST.
C1	25.00'	23°34'44"	10.29'	S 31°38'32" E	10.22'
C2	100.00'	19°02'27"	33.23'	S 79°41'03" W	33.08'
C3	150.00'	10°46'16"	28.20'	S 04°35'27" W	28.16'
C4	150.00'	10°53'10"	28.50'	N 04°35'47" E	28.46'

LEGEND:

- INDICATES WATER VALVE
- INDICATES FIRE HYDRANT
- INDICATES WATER METER
- INDICATES CONTROL VALVE
- INDICATES TELEPHONE PEDESTAL
- INDICATES CATCH BASIN
- INDICATES SANITARY SEWER MANHOLE
- INDICATES SANITARY LATERAL
- INDICATES SANITARY CLEANOUT
- INDICATES POWER POLE WITH DIRECTION OF OVERHEAD LINES
- INDICATES GUY ANCHOR
- INDICATES LIGHT POLE
- INDICATES JUNCTION BOX
- INDICATES ELECTRIC VAULT
- INDICATES ELECTRIC SERVICE BOX
- INDICATES ADA RAMP
- INDICATES SIGN
- INDICATES MONUMENT FOUND AS NOTED
- INDICATES 5/8" IRON ROD WITH "BETHJE 38490" PLASTIC CAP SET.
- INDICATES MGS CONTROL POINT
- INDICATES DECIDUOUS TREE WITH TRUNK DIAMETER
- INDICATES BOUNDARY
- INDICATES EDGE OF ASPHALT
- INDICATES EDGE OF CONCRETE
- INDICATES 5 FOOT INTERVAL CONTOUR
- INDICATES 1 FOOT INTERVAL CONTOUR
- INDICATES FENCE LINE
- INDICATES ELECTRIC LOCATE
- INDICATES FIBER OPTIC LOCATE
- INDICATES GAS LOCATE
- INDICATES WATER LOCATE
- INDICATES SANITARY SEWER LOCATE

NOTE:

BOUNDARY INFORMATION SHOWN WAS CALCULATED FROM MONUMENTS FOUND AS SHOWN HEREON PER RECORD OF SURVEY BY STRATTON VOLUME 3, PAGE 668, VOLUME 4, PAGE 394 AND "DULUTH ESTATES" VOLUME D, PAGE 606. ALL ADJOINING PARCEL LINES ARE FOR RERENCE ONLY.

KEVIN L. BETHJE
STATE OF WASHINGTON
38490
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8-03-2023

BASIS OF BEARING:
WASHINGTON SOUTH ZONE STATE PLANE COORDINATE SYSTEM, NAD83/2011. SCALE FACTOR 0.99993253 PER CITY OF PASCO MONUMENTS FOUND AT EAST QUARTER, SOUTH QUARTER (COP 69) AND SOUTHEAST (COP 67) CORNERS OF SECTION 20. CITY OF PASCO CONTROL MONUMENTS 128 AND 129 WERE ALSO TIED IN TO ESTABLISH COORDINATE SYSTEM. SCALE FACTOR APPLIED AT 0,0 AND DISTANCES SHOWN ARE GROUND.

NOT TO SCALE

50 25 0 50 75 100
~~SCALE 1 INCH = 50 FEET~~

SITE SURVEY PROVIDED FOR INFORMATION ONLY

VERTICAL DATUM:
CITY OF PASCO MONUMENT 128 AS SHOWN HEREON, NE OF CENTER OF SECTION 20
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NOTE:
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MGS
PASCO, INC.
809 S AUBURN ST
KENNEWICK, WA 99336
509-491-1071

A1 SURVEY
SCALE: NOT TO SCALE

DESIGN WEST ARCHITECTS, P.A.
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DRAWN BY: SJT
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JOB NUMBER: 23053/23109
REVISIONS

12/18/23

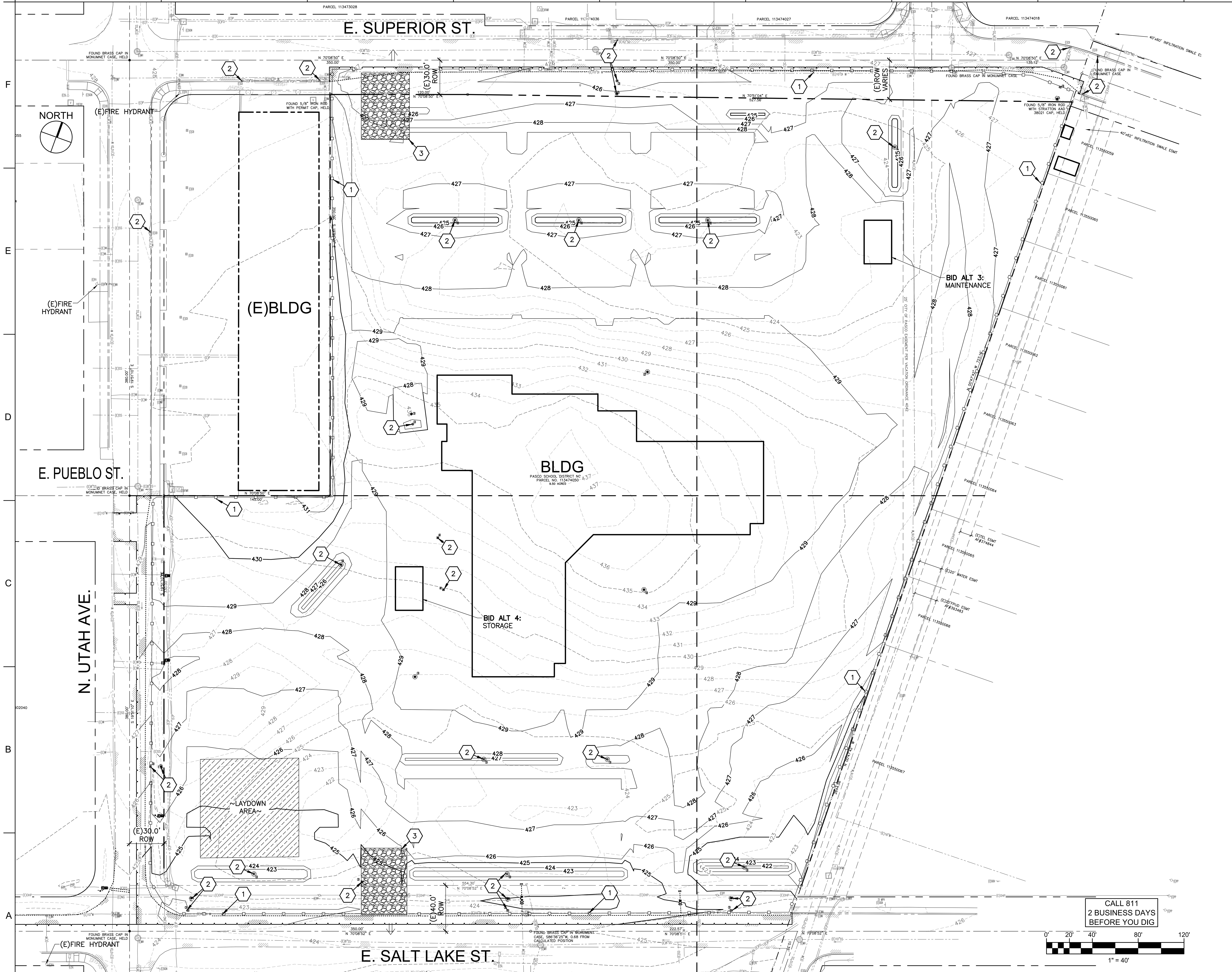
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: SURVEY

SHEET: C0.04



A1 EROSION CONTROL PLAN
SCALE: 1" = 40'-0"

KEY NOTES

1. SILT FENCING SHALL BE INSTALLED AT LOCATIONS SHOWN AND AS NEEDED AT ANY LOCATIONS OF SITE WHERE SURFACE RUNOFF MAY ERODE SOILS AWAY FROM SITE, CONTRACTOR SHALL INSTALL ADDITIONAL SILT FENCING AS NECESSARY, REFER TO DETAIL A1/C5.01
2. EXISTING AND PROPOSED DRAINAGE STRUCTURE TO BE PROTECTED WITH FILTER FABRIC, SEE DETAIL A2/C5.01
3. CONSTRUCTION ACCESS, SEE GENERAL NOTES ON SHEET C0.01

LEGEND

- EXISTING STORMWATER FLOW PATH
- NEW STORMWATER FLOW PATH
- CONTRACTOR LAYDOWN AND STORAGE AREA
- LIMITS OF CONSTRUCTION LINE
- SILT FENCE
- CONSTRUCTION VEHICLE ACCESS POINTS TO PUBLIC ROADS
- CONSTRUCTION ACCESS EROSION CONTROL

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. MOST SUITABLE LOCATION FOR CONSTRUCTION ENTRANCE TO BE DETERMINED BY GENERAL CONTRACTOR. CONSTRUCTION ENTRANCE SHOWN ON DRAWING IS A SUGGESTED LOCATION ONLY.
3. FINAL CONSTRUCTION LAY-DOWN AREA AND STOCKPILE AREA LOCATION AND SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR WITH APPROVAL OF OWNER.
4. CUT & FILL SLOPES SHOULD BE CONSTRUCTED WITH INCLINATION NO STEEPER THEN 2H:1V AND MUST BE PROTECTED FROM WIND AND EROSION.
5. PLACE TOPSOIL, COMPACT, AND PROVIDE TEMPORARY SOIL STABILIZATION. PERMANENT LANDSCAPING CAN BE INSTALLED ONCE LIKELIHOOD OF SEDIMENTATION DURING CONSTRUCTION IS REDUCED, UPSTREAM AREAS ARE FULLY STABILIZED, AND IRRIGATION SYSTEM IS OPERATIONAL.
6. EROSION, SEDIMENT, AND AIR QUALITY CONTROL SHALL COMPLY WITH THE COUNTY AND CITY AIR QUALITY CONTROL ORDINANCES, AND THE NOTES AND DETAILS ON THESE PLANS.
7. PROVIDE INLET PROTECTION ON ALL STORM DRAIN INLETS SURROUNDING SITE, INSPECT FABRIC REGULARLY AND REPLACE AS NECESSARY IF FOUND TO BE RIPPED OR TORN.
8. ANYTIME AN OPEN TRENCH AND DEMOLITION AREAS ARE PRESENT DURING NON WORK HOURS THE CONTRACTOR SHALL HAVE PORTABLE 6.0' CHAIN LINK CONSTRUCTION FENCE IN PLACE AROUND THE WORK AREA.
9. NOT ALL UNDERGROUND UTILITIES ON THESE DRAWINGS MAY BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
10. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
11. ACP AND CONCRETE CUT LINES ARE BASED ON NEW SURFACE FEATURES TO BE INSTALLED. CUT LINES DO NOT ACCOUNT FOR GRADING, TRENCHING, GRADE TRANSITIONS, OR OVERLAY WORK. ADJUST ACTUAL CUT AS NECESSARY FOR RELATED NEW WORK.
12. REMOVE ALL EXISTING IRRIGATION SYSTEM COMPONENTS WITHIN NEW CONSTRUCTION AREAS THAT WILL INTERFERE WITH NEW WORK. CUT, CAP, AND SEAL WATERTIGHT EXISTING PIPING TO REMAIN.
13. ALL UTILITY MAINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH THE CITY TO SCHEDULE SERVICE OUTAGES AS NEEDED.
14. CONTRACTOR TO REMOVE ANY ABANDONED UTILITY LINES AS NEEDED FOR NEW CONSTRUCTION AND PROPOSED GRADES.

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PAUL T. KNUTZEN · STATE OF WASHINGTON · 44313 · REGISTERED PROFESSIONAL ENGINEER · 12/18/23

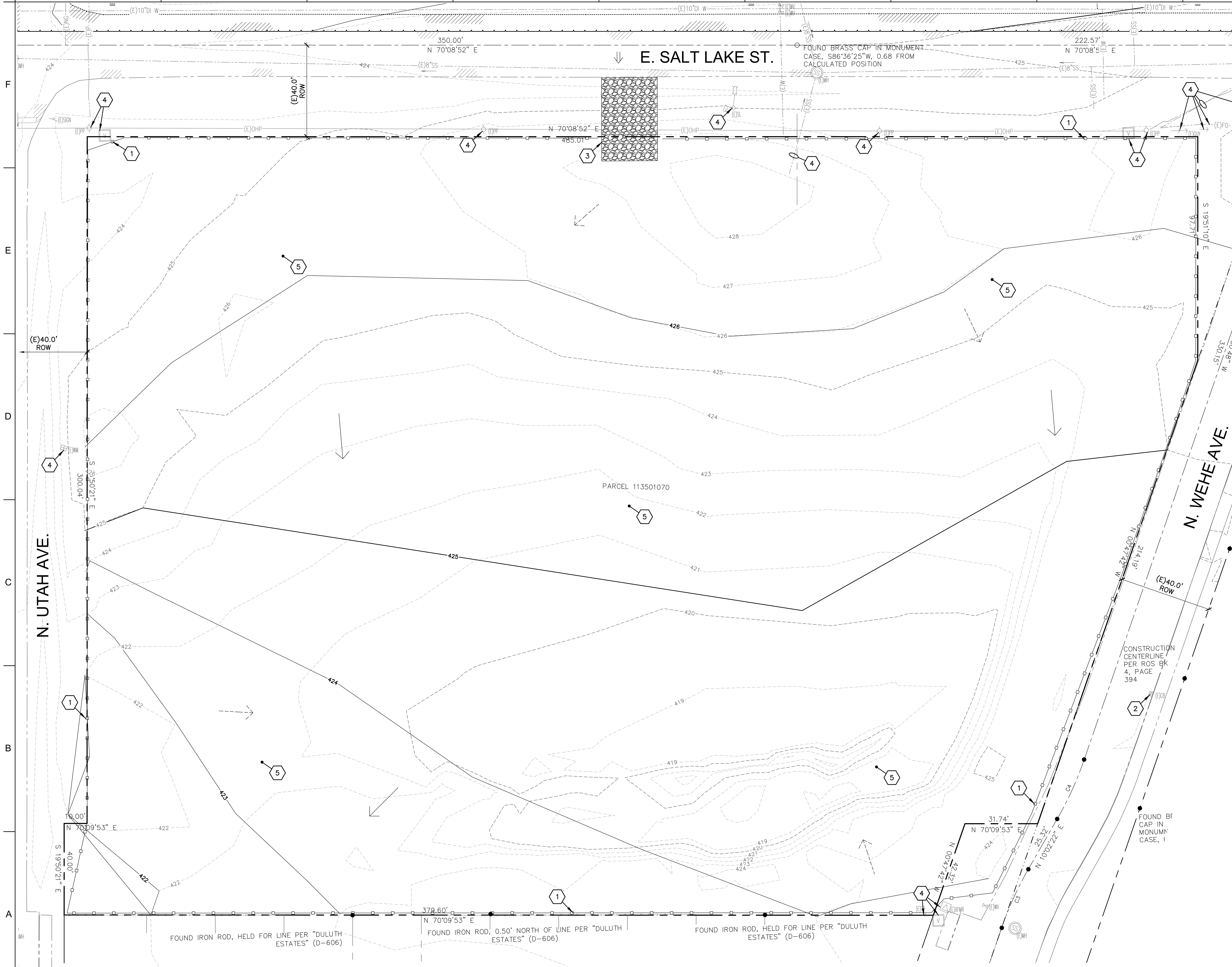
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
EROSION CONTROL PLAN

SHEET
C0.05



A1 BID ALT 7- SOUTH PARCEL EROSION CONTROL AND GRADING PLAN

SCALE: 1" = 20'-0"

KEY NOTES

1. SILT FENCING SHALL BE INSTALLED AT LOCATIONS SHOWN AND AS NEEDED AT ANY LOCATIONS OF SITE WHERE SURFACE RUNOFF MAY ERODE SOILS AWAY FROM SITE, CONTRACTOR SHALL INSTALL ADDITIONAL SILT FENCING AS NECESSARY, REFER TO DETAIL A1/C5.01
2. EXISTING DRAINAGE STRUCTURE TO BE PROTECTED WITH FILTER FABRIC, SEE DETAIL A2/C5.01
3. CONSTRUCTION ACCESS, SEE GENERAL NOTES ON SHEET C0.01
4. PROTECT EXISTING UTILITY IN PLACE
5. WITHIN PROPERTY LIMITS AND FRONTAGE, CONTRACTOR SHALL FULLY REMOVE ALL EXISTING VEGETATION, ROOTS, ANY ARTIFICIAL FILL, TRASH AND DEBRIS, THEN DISPOSE OF PROPERLY OFFSITE, THE SURFACE SHALL BE STRIPPED OF ALL TOPSOIL AND ORGANIC RICH SOILS AND BE STOCKPILED ONSITE SEPARATELY TO BE SPREAD OUT EVENLY OVER PROPERTY AFTER GRADING OPERATIONS ARE COMPLETE, THE SURFACE SHALL BE PREPARED FOR EARTHWORK, THEN SUITABLE SOIL SHALL BE PLACED AND COMPACTED PER GEOTECHNICAL REPORT AND EARTHWORK NOTES ON SHEET C0.01, AFTER EARTHWORK COMPLETION, THE ENTIRE DISTURBED AREA SHALL BE STABILIZED AND HYDROSEEDED WITH A NATIVE EROSION CONTROL MIX

LEGEND

- EXISTING STORMWATER FLOW PATH
- NEW STORMWATER FLOW PATH
- LIMITS OF CONSTRUCTION LINE
- SILT FENCE
- CONSTRUCTION VEHICLE ACCESS POINTS TO PUBLIC ROADS
- CONSTRUCTION ACCESS EROSION CONTROL

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. MOST SUITABLE LOCATION FOR CONSTRUCTION ENTRANCE TO BE DETERMINED BY GENERAL CONTRACTOR. CONSTRUCTION ENTRANCE SHOWN ON DRAWING IS A SUGGESTED LOCATION ONLY.
3. FINAL CONSTRUCTION LAY-DOWN AREA AND STOCKPILE AREA LOCATION AND SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR WITH APPROVAL OF OWNER.
4. CUT & FILL SLOPES SHOULD BE CONSTRUCTED WITH INCLINATION NO STEEPER THEN 2H:1V AND MUST BE PROTECTED FROM WIND AND EROSION.
5. PLACE TOPSOIL, COMPACT, AND PROVIDE TEMPORARY SOIL STABILIZATION. PERMANENT LANDSCAPING CAN BE INSTALLED ONCE LIKELIHOOD OF SEDIMENTATION DURING CONSTRUCTION IS REDUCED, UPSTREAM AREAS ARE FULLY STABILIZED, AND IRRIGATION SYSTEM IS OPERATIONAL.
6. EROSION, SEDIMENT, AND AIR QUALITY CONTROL SHALL COMPLY WITH THE COUNTY AND CITY AIR QUALITY CONTROL ORDINANCES, AND THE NOTES AND DETAILS ON THESE PLANS.
7. PROVIDE INLET PROTECTION ON ALL STORM DRAIN INLETS SURROUNDING SITE, INSPECT FABRIC REGULARLY AND REPLACE AS NECESSARY IF FOUND TO BE RIPPED OR TORN.
8. NOT ALL UNDERGROUND UTILITIES ON THESE DRAWINGS MAY BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
9. ALL UTILITY MAINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH THE CITY TO SCHEDULE SERVICE OUTAGES AS NEEDED.
10. CONTRACTOR TO REMOVE ANY ABANDONED UTILITY LINES AS NEEDED FOR NEW CONSTRUCTION AND PROPOSED GRADES.

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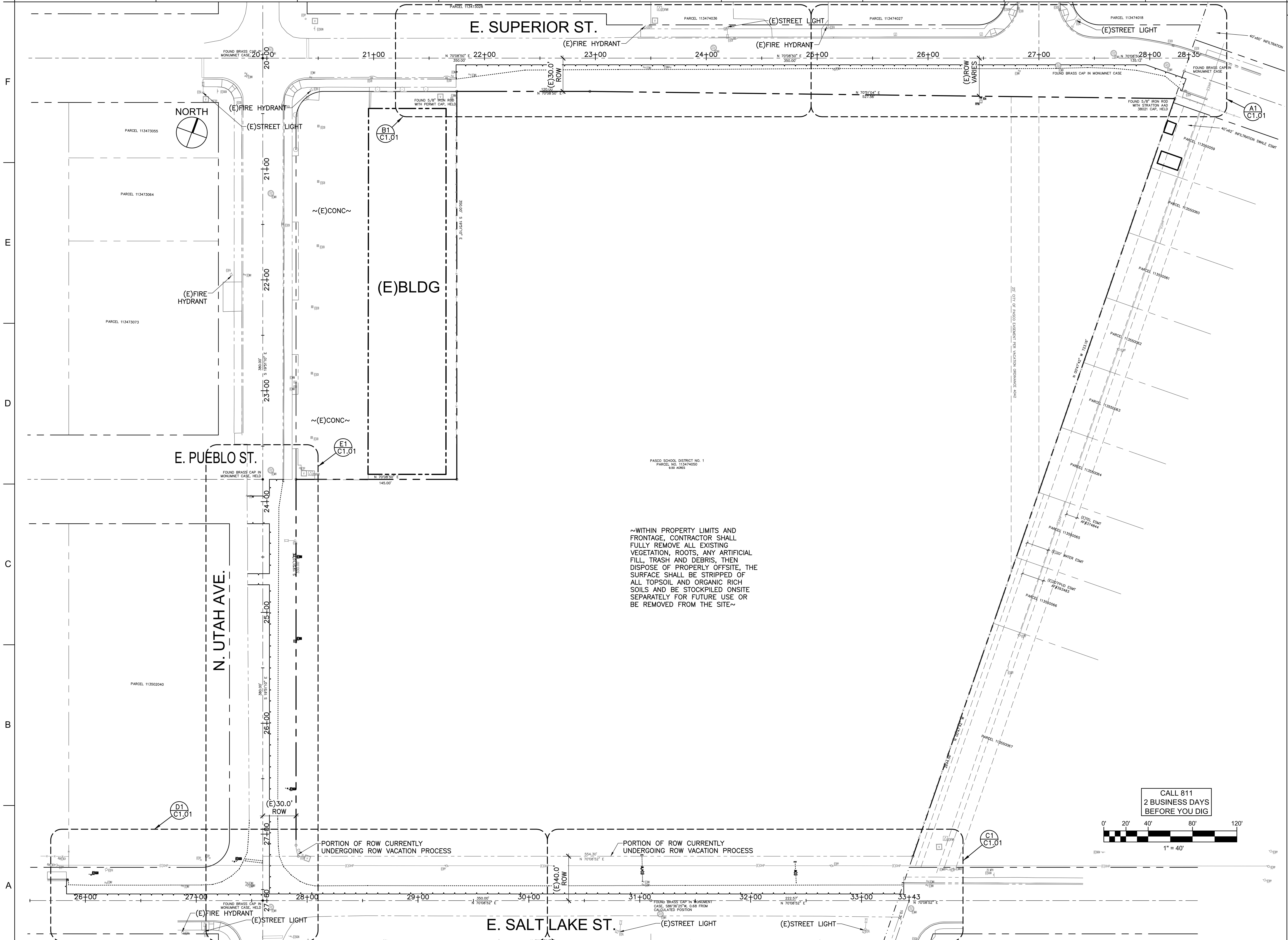
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SOUTH PARCEL EROSION CONTROL AND GRADING PLAN

SHEET
C0.06



A1 OVERALL DEMOLITION PLAN

SCALE: 1" = 40'-0"

NOTES

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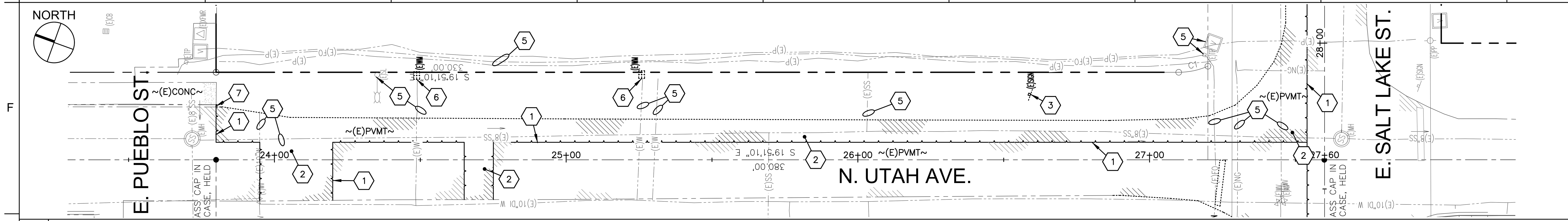
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

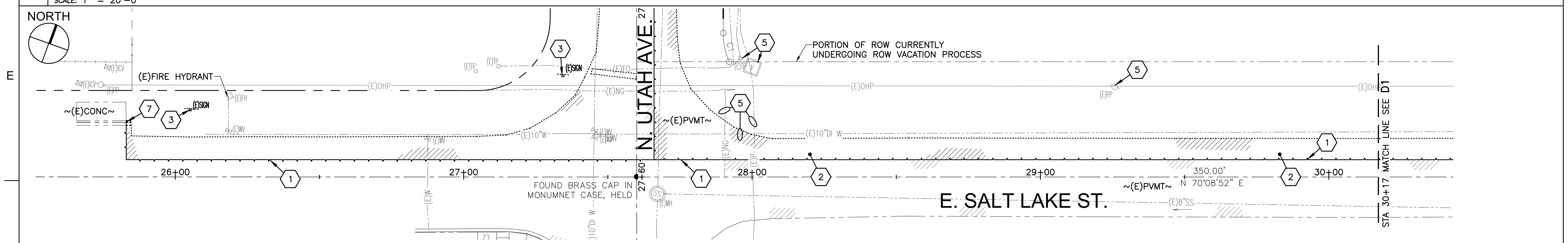
DATE
12/18/2023

SHEET NAME
OVERALL DEMOLITION PLAN

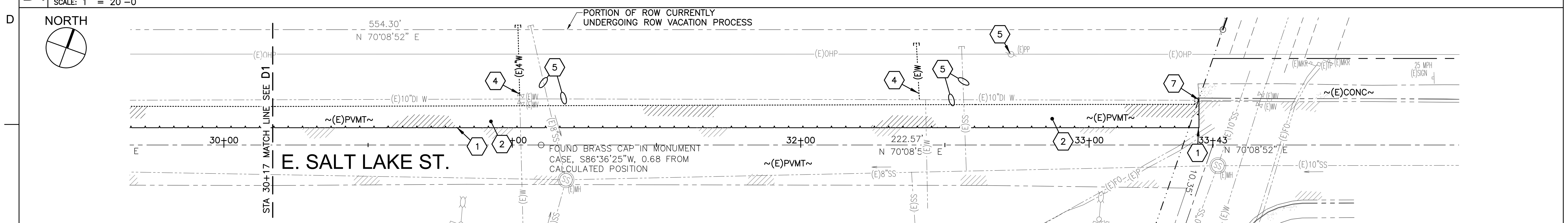
SHEET
C1.00



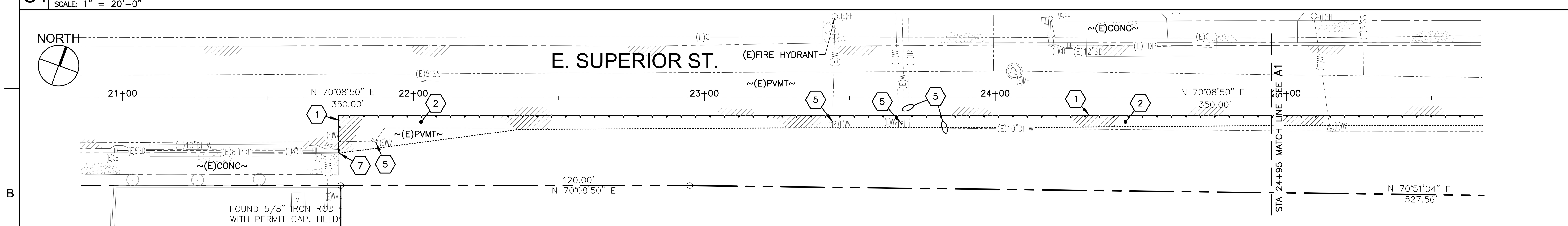
E1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"



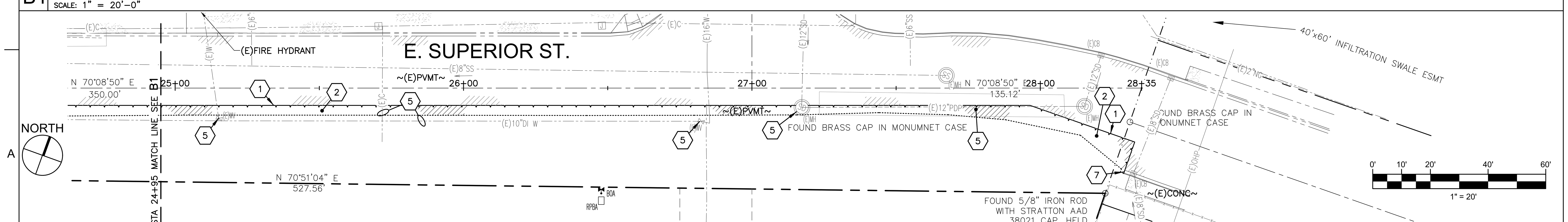
D1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"



C1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"



B1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"



A1 PARTIAL DEMOLITION PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. SAWCUT ASPHALT, PROVIDE NEAT CUT EDGE
2. REMOVE ASPHALT AND DISPOSE OF PROPERLY, REMOVE GRAVEL BASE AND SALVAGE FOR REUSE
3. REMOVE SIGN AND SALVAGE FOR REUSE IF IN GOOD CONDITION, REMOVE POLE AND BASE THEN BACKFILL
4. EXCAVATE AND REMOVE WATER LINE BACK TO MAIN AS SHOWN, THEN CAP
5. PROTECT UTILITY IN PLACE
6. REMOVE EXISTING WATER METER BOX AND DISPOSE OF PROPERLY, SALVAGE WATER METER AND RETURN TO CITY, CAP END OF LINE
7. SAWCUT AND REMOVE PORTION OF CURB AS NEEDED FOR NEAT EDGE FOR NEW CURB TIE IN

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. NOT ALL UNDERGROUND UTILITIES ON THESE DRAWINGS MAY BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. ACP AND CONCRETE CUT LINES ARE BASED ON NEW SURFACE FEATURES TO BE INSTALLED. CUT LINES DO NOT ACCOUNT FOR GRADING, TRENCHING, GRADE TRANSITIONS, OR OVERLAY WORK. ADJUST ACTUAL CUT AS NECESSARY FOR RELATED NEW WORK.
5. REMOVE ALL EXISTING IRRIGATION SYSTEM COMPONENTS WITHIN NEW CONSTRUCTION AREAS THAT WILL INTERFERE WITH NEW WORK. CUT, CAP, AND SEAL WATERTIGHT EXISTING PIPING TO REMAIN.
6. NOT ALL ELECTRICAL WORK MAY BE SHOWN ON THE CIVIL SITE DRAWINGS, AND IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL DRAWINGS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION. ELECTRICAL SITE DRAWINGS SHALL TAKE PRECEDENCE PERTAINING TO ANY ELECTRICAL WORK WHICH MAY BE SHOWN ON THE CIVIL SITE DRAWINGS.
7. ALL UTILITY MAINS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH THE CITY TO SCHEDULE SERVICE OUTAGES AS NEEDED.
8. CONTRACTOR TO REMOVE ANY ABANDONED UTILITY LINES AS NEEDED FOR NEW CONSTRUCTION AND PROPOSED GRADES.

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REVISIONS	

PAUL T. KNUTZEN
STATE OF WASHINGTON
44313
REGISTERED PROFESSIONAL ENGINEER
12/18/23

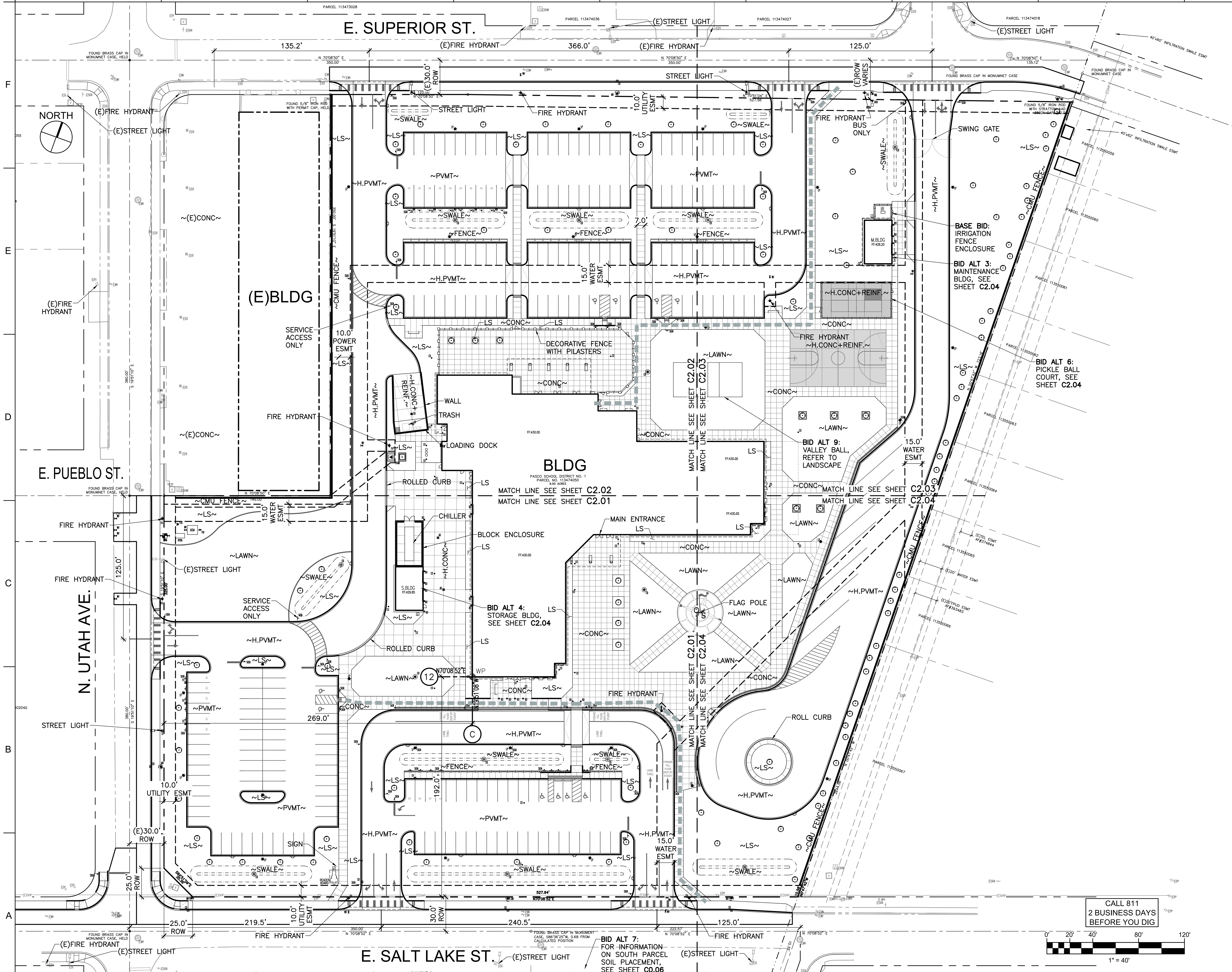
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
PARTIAL DEMOLITION PLANS

SHEET
C1.01



A1 OVERALL SITE PLAN
SCALE: 1" = 40'-0"

LEGEND

ADA COMPLIANT PATH TO SIDEWALK

NOTES

1. PARKING:
   192 STANDARD STALLS, 8 ACCESSIBLE STALLS, 2 ACCESSIBLE VAN STALLS, 20 EV STALLS, TOTAL 222 STALLS.

   1 SPACE PER EMPLOYEE (60 STAFF)
   1 SPACE PER 8 STUDENTS (600 STUDENTS)
   REQUIRED 135 STALLS.

   8 BUS PARKING STALLS + 2 STALLS IN ROUNDABOUT PARALLEL TO CURB

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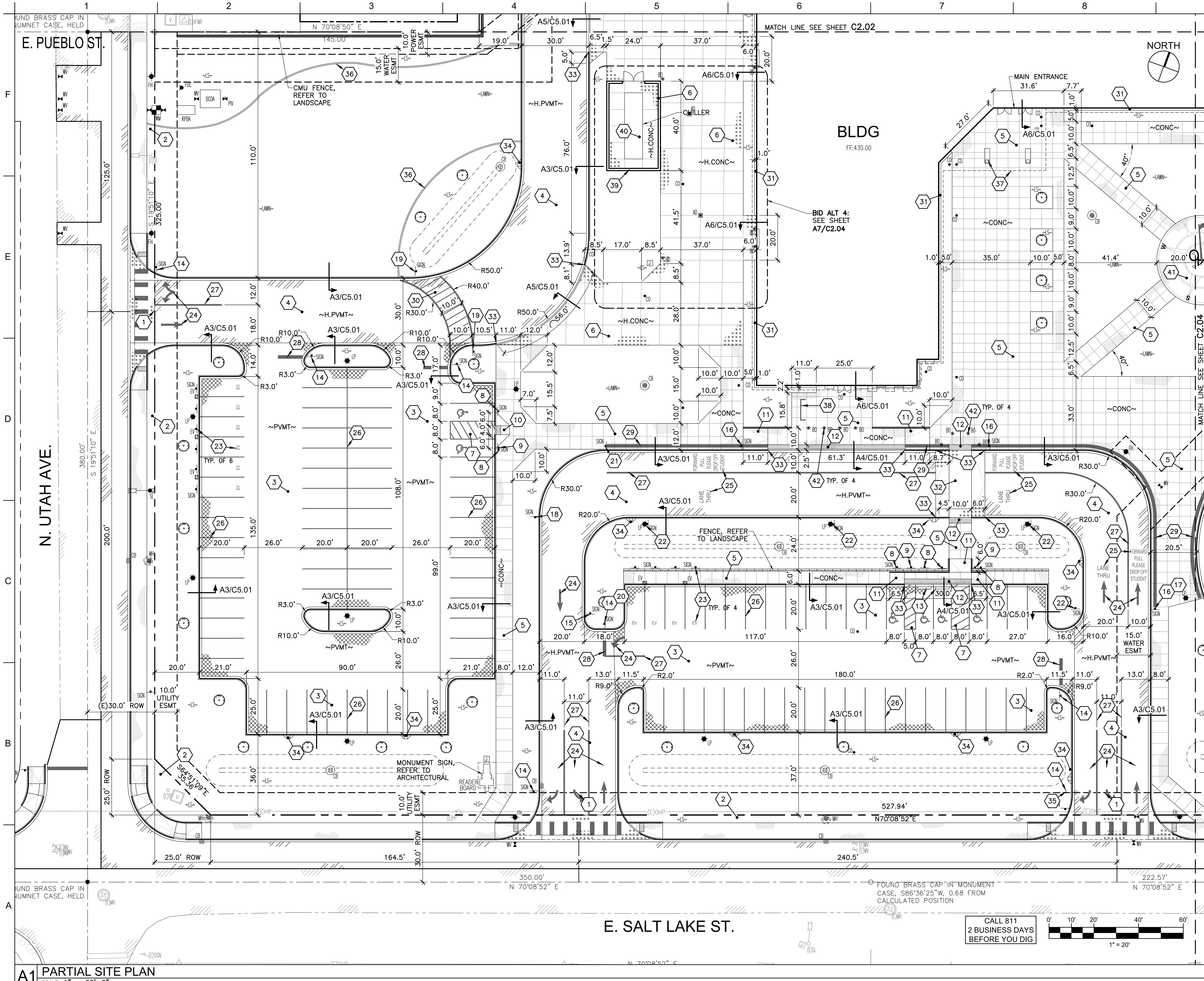
JOB NUMBER: 23053/23109
REVISIONS

PAUL T. KNUTZEN, STATE OF WASHINGTON, 44313, REGISTERED PROFESSIONAL ENGINEER 12/18/23

KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023
SHEET NAME: OVERALL SITE PLAN
SHEET: C2.00



A1 PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

KEY NOTES

1. CONNECT TO DRIVEWAY ENTRANCE, REFER TO ROAD PLANS C6.01 AND C6.02
2. SITE WORK WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLANS C6.01 AND C6.02
3. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 8" TOP COURSE PER WSDOT 9-03.9(3)
4. HEAVY ASPHALT SECTION – 4" THICK ASPHALT OVER 12" TOP COURSE PER WSDOT 9-03.9(3)
5. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
6. HEAVY CONCRETE SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
7. PAINT WHITE 4" WIDE PARKING STRIPING, LETTERING, AND ACCESSIBLE PARKING SYMBOLS PER ADA REQUIREMENTS AS SHOWN ON PLAN. SEE DETAIL B3/C5.01
8. ACCESSIBLE PARKING SIGN, SEE DETAIL B1/C5.01
9. ACCESSIBLE AISLE SIGN, SEE DETAIL B2/C5.01
10. ACCESSIBLE RAMP, SEE DETAIL B4/C5.01
11. ACCESSIBLE RAMP WING, SEE DETAIL B5/C5.01
12. PROVIDE EMBEDDED ADA DETECTABLE WARNING STRIP ARMOR TILE ADA-C-2448 OR ENGINEER APPROVED EQUAL
13. WHEEL STOP, SEE DETAIL B6/C5.01
14. "STOP" SIGN, PER MUTCD R1-1, SEE DETAIL C3/C5.01
15. "DO NOT ENTER" SIGN, PER MUTCD R5-1, SEE DETAIL C3/C5.01
16. "STUDENT DROP OFF/PICK UP PLEASE PULL FORWARD" SIGN, SEE DETAILS D1/C5.01, SEE DETAIL C3/C5.01
17. "PARENT PICK UP AREA" SIGN, SEE DETAILS D1/C5.01, SEE DETAIL C3/C5.01
18. "NO DROP OFF" SIGN, SEE DETAILS D1/C5.01, SEE DETAIL C3/C5.01
19. "SERVICE ACCESS ONLY" SIGN, SEE DETAIL C3/C5.01
20. "LEFT TURN ONLY" SIGN PER MUTCD R3-5(L), SEE DETAIL C3/C5.01
21. "END STUDENT DROP OFF/PICK UP" SIGN, SEE DETAILS D1/C5.01, SEE DETAIL C3/C5.01
22. "THRU LANE NO STOPPING" SIGN, SEE DETAILS D1/C5.01, SEE DETAIL C3/C5.01
23. FUTURE EV STALL PAINT AND SIGN, SHOWN FOR REFERENCE
24. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER WSDOT STD DETAIL M-24.40
25. PAINT 24" TALL WHITE LANE DESIGNATION LETTERING AS SHOWN, PER WSDOT M-80.20
26. PAINT 4" WIDE WHITE PARKING STRIPE, PER WSDOT M-20.10
27. PAINT 8" WIDE WHITE LANE STRIPE, PER WSDOT M-20.10
28. PAINT 18" WIDE WHITE STOP BAR, PER WSDOT M-15.10-01 AND M-24.60
29. PAINT 18" WIDE YELLOW "NO CROSSING" PEDESTRIAN STRIPE, 6" OFF OF BACK OF CURB (UNLESS NOTED OTHER WISE), PER WSDOT M-24.60
30. PAINT NO PARKING ZONE AS SHOWN ON PLANS WITH 4" WIDE WHITE STRIPES SPACED AT 36" ON CENTER
31. 4" THICK BY 12" WIDE CONCRETE APRON OVER 4" OF 5/8" MINUS CRUSHED ROCK BASE, AROUND BUILDING WHERE SHOWN, SEE DETAIL A6/C5.01
32. RAISED CONCRETE CROSS WALK, SEE DETAIL C5/C5.01 AND D4C5.01 WITH HEAVY CONCRETE SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
33. CURB TYPE TRANSITION
34. CONCRETE INLET, SEE DETAIL C1/C5.01
35. 4" THICK CONCRETE MOW STRIP AROUND SIGN POST AS SHOWN
36. LANDSCAPE CURBING, REFER TO LANDSCAPE
37. CANOPY, REFER TO ARCHITECTURAL PLANS
38. BIKE RACK, REFER TO LANDSCAPE
39. ENCLOSURE WALLS AND GATES, REFER TO ARCHITECTURAL
40. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL PLANS FOR EQUIPMENT AND CONCRETE CURB/PAD SIZE, LOCATIONS, AND REINFORCEMENT REQUIREMENTS
41. DECORATIVE CONCRETE COMPASS CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3), REFER TO LANDSCAPE PLAN FOR CONTROL AND EXPANSION JOINTS AND OTHER REQUIREMENTS
42. DECORATIVE BOLLARDS, REFER TO LANDSCAPE

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP), SEE WSDOT STD PLAN A-40.10-04 FOR REINFORCEMENT BAR SPACING AND JOINTS.
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.
6. REFER TO LANDSCAPE FOR FENCING, GATES AND/OR MOW STRIP.

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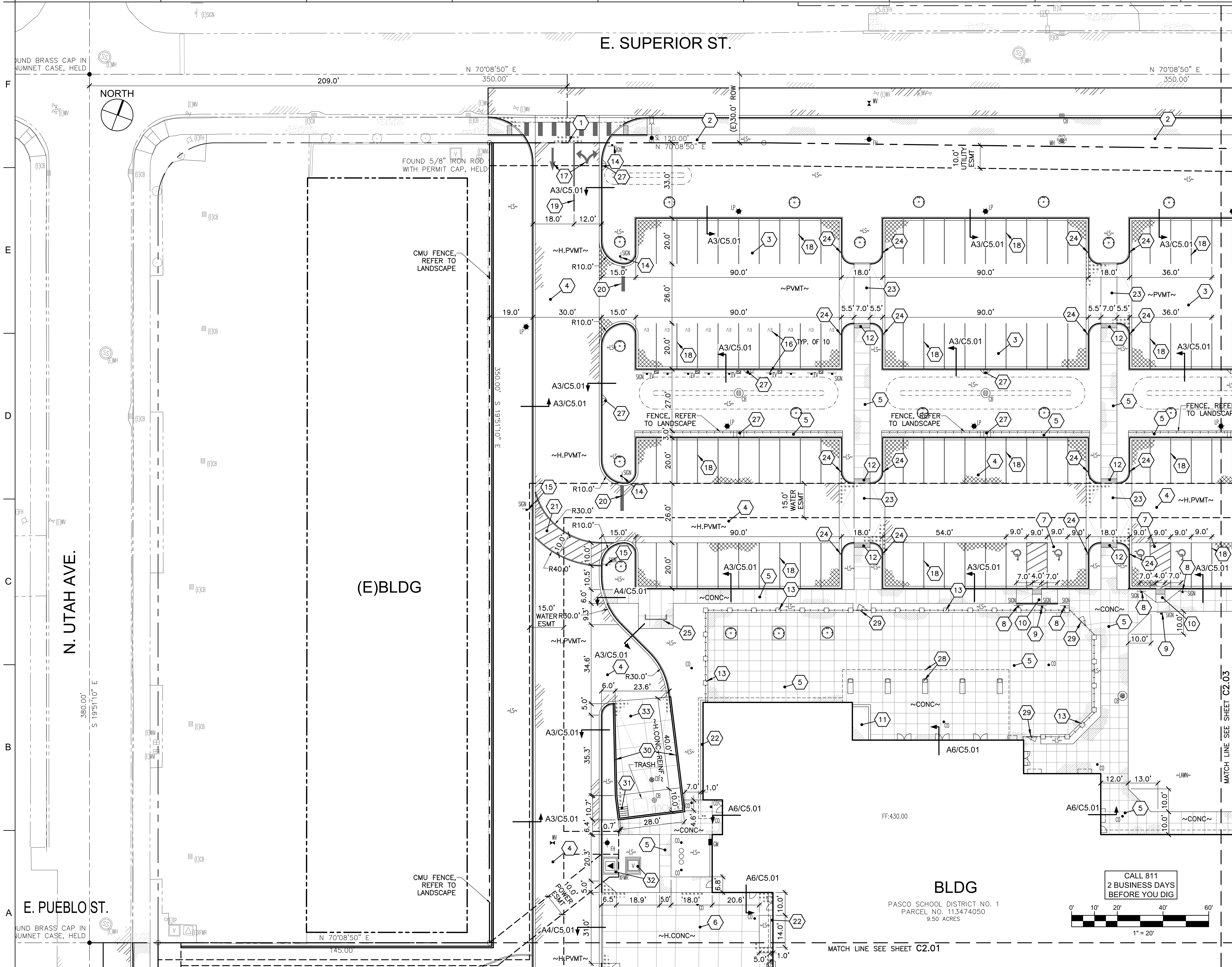
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: **12/18/2023**

SHEET NAME: **PARTIAL SITE PLAN**

SHEET: **C2.01**



A1 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. CONNECT TO DRIVEWAY ENTRANCE, REFER TO ROAD PLANS C6.01 AND C6.02
2. SITE WORK WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLANS C6.01 AND C6.02
3. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 8" TOP COURSE PER WSDOT 9-03.9(3)
4. HEAVY ASPHALT SECTION – 4" THICK ASPHALT OVER 12" TOP COURSE PER WSDOT 9-03.9(3)
5. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
6. HEAVY CONCRETE SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
7. PAINT WHITE 4" WIDE PARKING STRIPING, LETTERING, AND ACCESSIBLE PARKING SYMBOLS PER ADA REQUIREMENTS AS SHOWN ON PLAN. SEE DETAIL B3/C5.01
8. ACCESSIBLE PARKING SIGN, SEE DETAIL B1/C5.01
9. ACCESSIBLE AISLE SIGN, SEE DETAIL B2/C5.01
10. ACCESSIBLE RAMP, SEE DETAIL B4/C5.01
11. ELEVATED CONCRETE AREA WITH STEPS, REFER TO STRUCTURAL
12. PROVIDE EMBEDDED ADA DETECTABLE WARNING STRIP ARMOR TILE ADA-C-2448 OR ENGINEER APPROVED EQUAL
13. DECORATIVE FENCE WITH PILASTERS, REFER TO LANDSCAPE AND STRUCTURAL
14. "STOP" SIGN, PER MUTCD R1-1, SEE DETAIL C3/C5.01
15. "SERVICE ACCESS ONLY" SIGN, SEE DETAIL C3/C5.01
16. FUTURE EV STALL PAINT AND SIGN, SHOWN FOR REFERENCE
17. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER WSDOT STD DETAIL M-24.40
18. PAINT 4" WIDE WHITE PARKING STRIPE, PER WSDOT M-20.10
19. PAINT 8" WIDE WHITE LANE STRIPE, PER WSDOT M-20.10
20. PAINT 18" WIDE WHITE STOP BAR, PER WSDOT M-15.10-01 AND M-24.60
21. PAINT NO PARKING ZONE AS SHOWN ON PLANS WITH 4" WIDE WHITE STRIPES SPACED AT 36" ON CENTER
22. 4" THICK BY 12" WIDE CONCRETE APRON OVER 4" OF 5/8" MINUS CRUSHED ROCK BASE, AROUND BUILDING WHERE SHOWN, SEE DETAIL A6/C5.01
23. RAISED CONCRETE CROSS WALK, SEE DETAIL C5/C5.01 AND D4C5.01 WITH HEAVY CONCRETE SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
24. CURB TYPE TRANSITION
25. BIKE RACK, REFER TO LANDSCAPE
26. CONCRETE MOW STRIP AROUND UTILITY, REFER TO LANDSCAPE
27. CONCRETE INLET, SEE DETAIL C1/C5.01
28. CANOPY, REFER TO ARCHITECTURAL PLANS
29. GATE, REFER TO LANDSCAPE
30. LOADING DOCK WALL, REFER TO STRUCTURAL
31. LOADING DOCK STAIRS AND HANDRAIL, REFER TO STRUCTURAL
32. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL PLANS FOR EQUIPMENT AND CONCRETE CURB/PAD SIZE, LOCATIONS, AND REINFORCEMENT REQUIREMENTS
33. HEAVY CONCRETE WITH REINFORCING SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9-03.9(3) WITH #5 AT 18"O.C. E.W. AT MID-DEPTH IN SLAB, TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP). SEE WSDOT STD PLAN A-40.10-04 FOR REINFORCEMENT BAR SPACING AND JOINTS.
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.
6. REFER TO LANDSCAPE FOR FENCING, GATES AND/OR MOW STRIP.

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CHECKED BY: ASW
JOB NUMBER: 23053/23109
REVISIONS

PAUL T. KNUTZEN, STATE OF WASHINGTON, 44313, REGISTERED PROFESSIONAL ENGINEER, 12/18/23

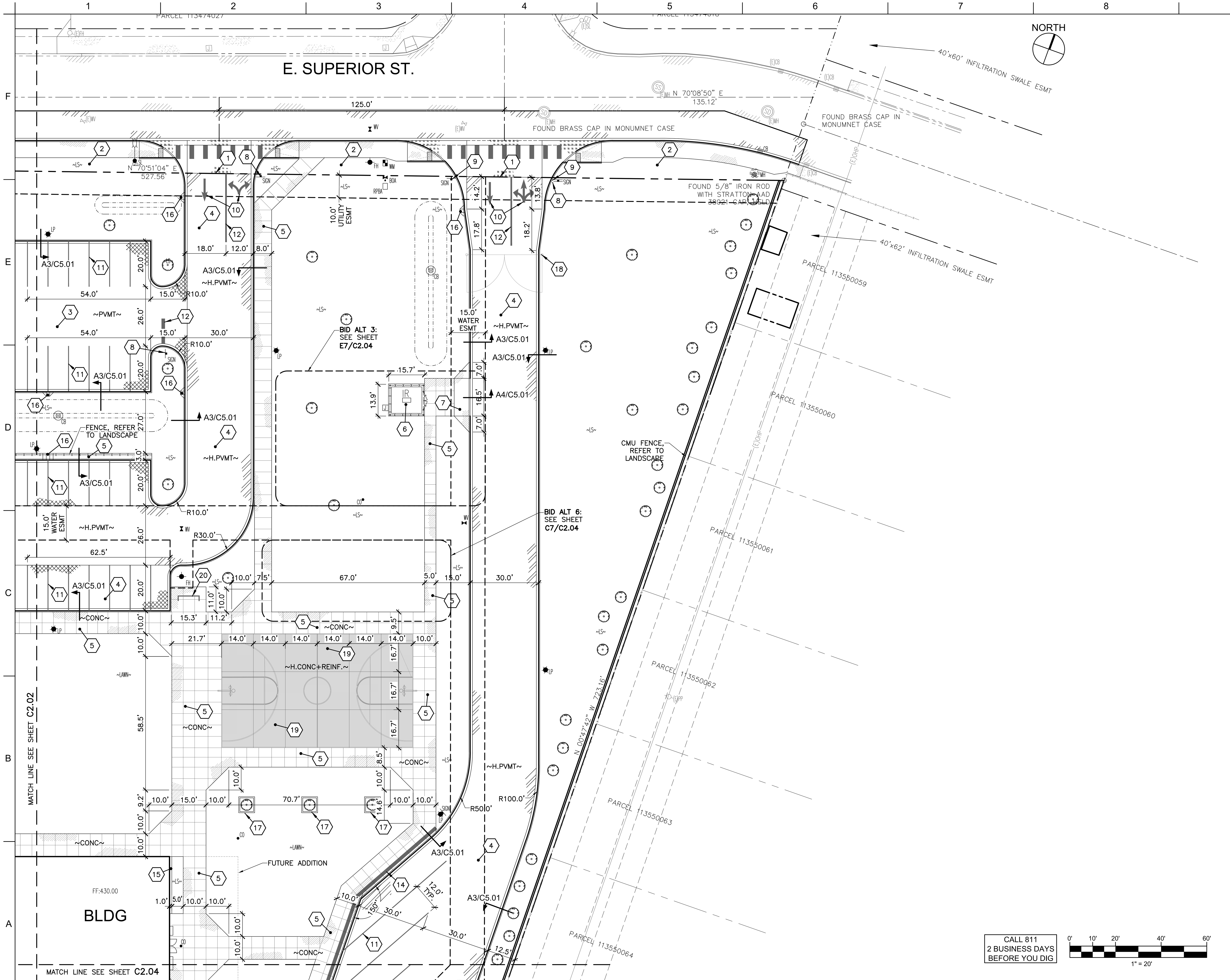
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: **12/18/2023**

SHEET NAME: **PARTIAL SITE PLAN**

SHEET: **C2.02**



A1 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. CONNECT TO DRIVEWAY ENTRANCE, REFER TO ROAD PLANS C6.01 AND C6.02
2. SITE WORK WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLANS C6.01 AND C6.02
3. STANDARD ASPHALT SECTION – 2-1/2" THICK ASPHALT OVER 8" TOP COURSE PER WSDOT 9-03.9(3)
4. HEAVY ASPHALT SECTION – 4" THICK ASPHALT OVER 12" TOP COURSE PER WSDOT 9-03.9(3)
5. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9-03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
6. ROCK, PER LANDSCAPE
7. DRIVEWAY, SEE DETAIL D3/C5.01
8. "STOP" SIGN, PER MUTCD R1-1, SEE DETAIL C3/C5.01
9. "SCHOOL BUSES ONLY" AND "SERVICE VEHICLES ONLY" SIGNS INSTALLED ON POST, SEE DETAILS D1/C5.01, SEE DETAIL C3/C5.01
10. PAINT WHITE ELONGATED DIRECTIONAL ARROWS AS SHOWN ON PLAN PER WSDOT STD DETAIL M-24.40
11. PAINT 4" WIDE WHITE PARKING STRIPE, PER WSDOT M-20.10
12. PAINT 8" WIDE WHITE LANE STRIPE, PER WSDOT M-20.10
13. PAINT 18" WIDE WHITE STOP BAR, PER WSDOT M-15.10-01 AND M-24.60
14. PAINT 18" WIDE YELLOW "NO CROSSING" PEDESTRIAN STRIPE, 6" OFF OF BACK OF CURB (UNLESS NOTED OTHER WISE), PER WSDOT M-24.60
15. 4" THICK BY 12" WIDE CONCRETE APRON OVER 4" OF 5/8" MINUS CRUSHED ROCK BASE, AROUND BUILDING WHERE SHOWN, SEE DETAIL A6/C5.01
16. CONCRETE INLET, SEE DETAIL C1/C5.01
17. LANDSCAPE CURBING, REFER TO LANDSCAPE
18. GATE, REFER TO LANDSCAPE
19. HEAVY CONCRETE WITH REINFORCING SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9-03.9(3) WITH #4 AT 18"O.C. E.W. AT MID-DEPTH IN SLAB, TROWEL CONTROL JOINTS AS SHOWN AND INSTALL EXPANSION JOINTS AT 30' O.C. MAX, REFER TO LANDSCAPE FOR REQUIRED CONCRETE JOINT FILLER, ACRYLIC SPORT SURFACING, SPORTS AREA EQUIPMENT, AND MARKINGS
20. BIKE RACK, REFER TO LANDSCAPE

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP), SEE WSDOT STD PLAN A-40.10-04 FOR REINFORCEMENT BAR SPACING AND JOINTS.
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.
6. REFER TO LANDSCAPE FOR FENCING, GATES AND/OR MOW STRIP.

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JOB NUMBER: 23053/23109
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12/18/23

KNUTZEN ENGINEERING

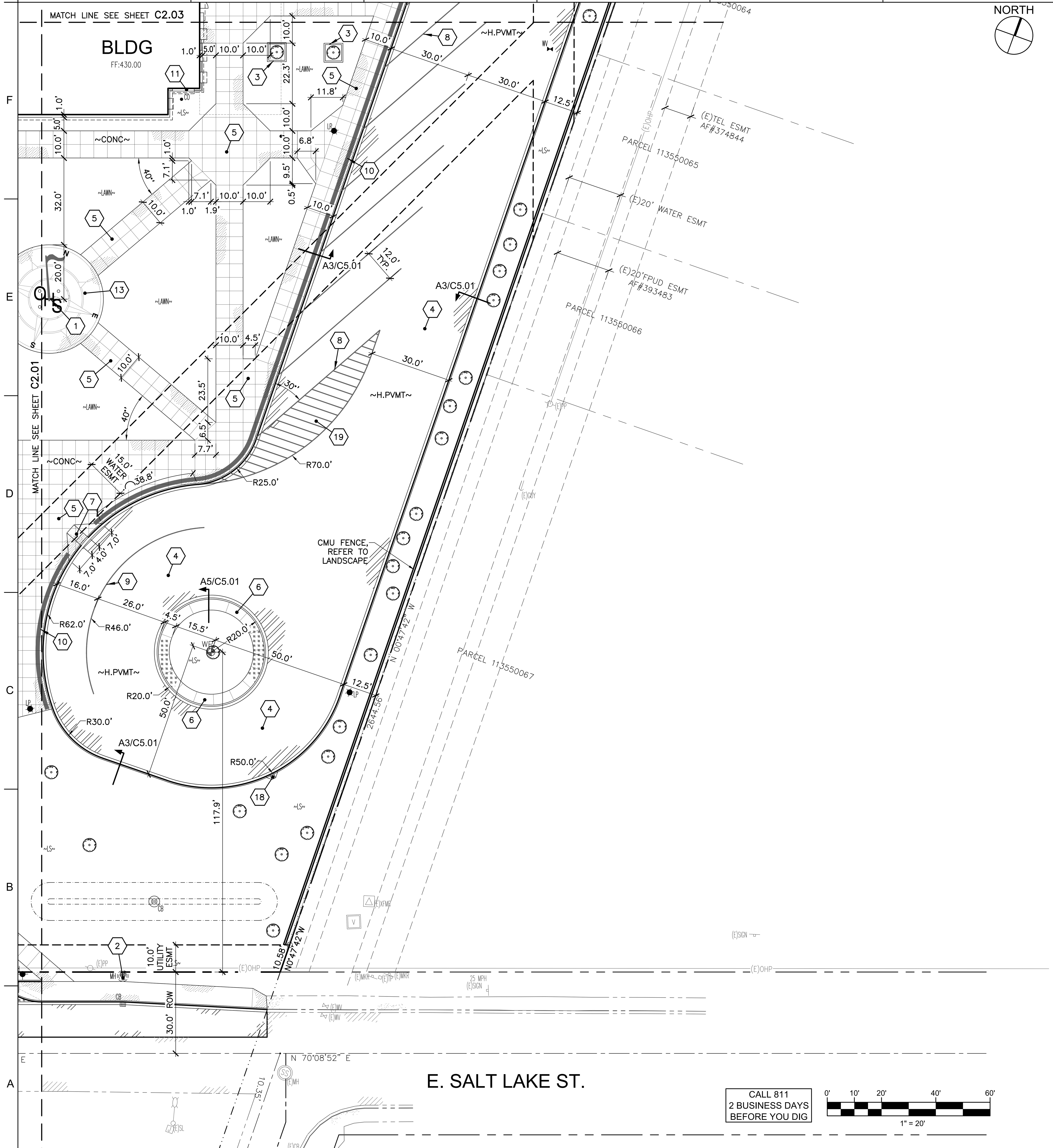
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

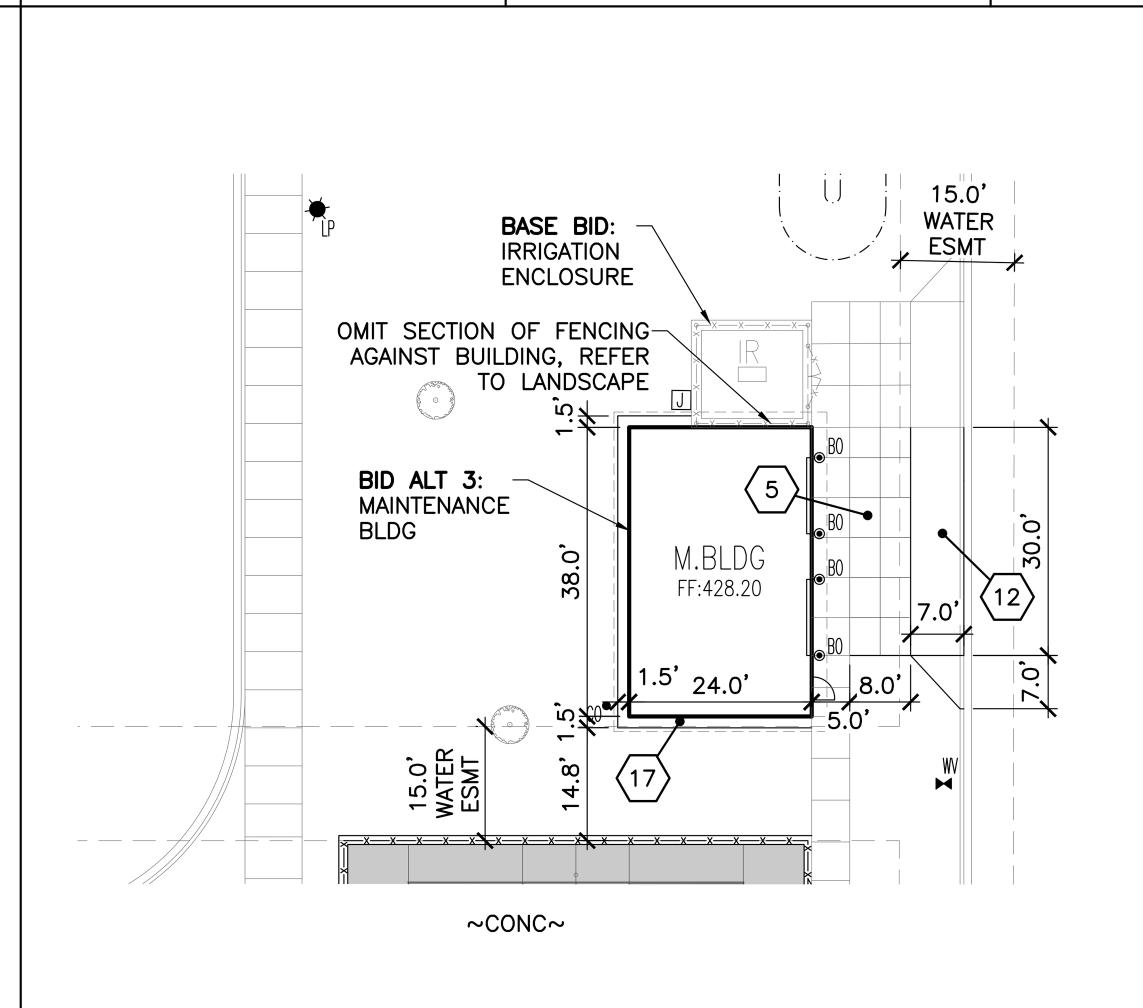
DATE: **12/18/2023**

SHEET NAME: **PARTIAL SITE PLAN**

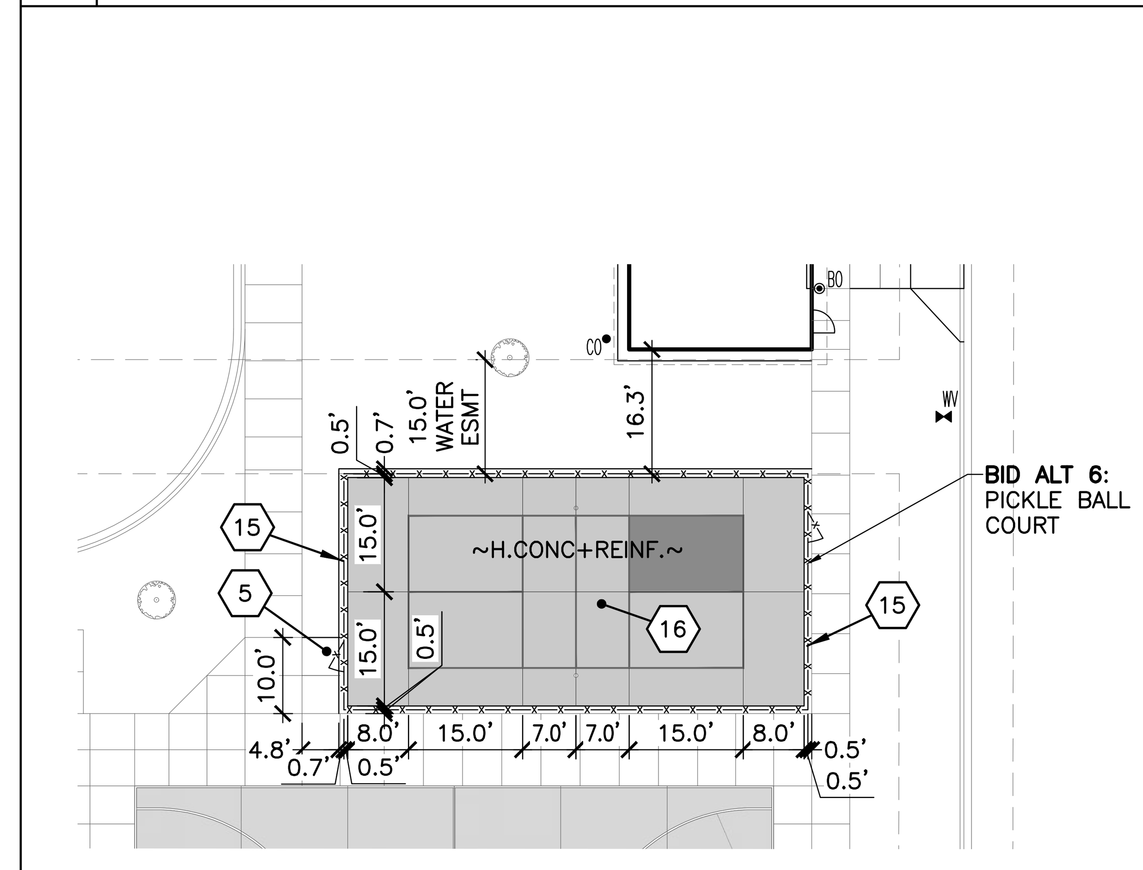
SHEET: **C2.03**



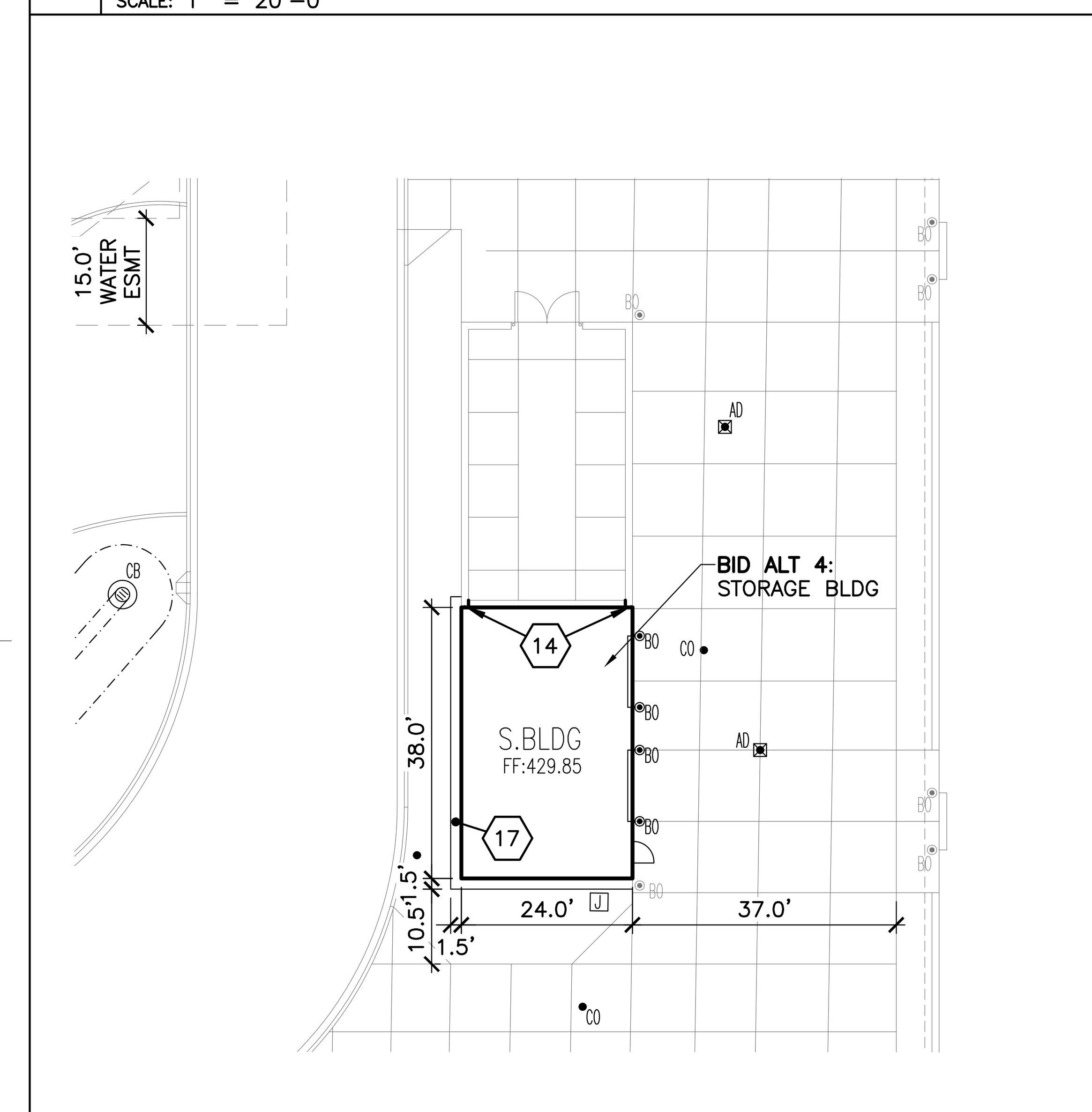
A1 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"



E7 BID ALT 3 - SITE PLAN
SCALE: 1" = 20'-0"



C7 BID ALT 6 - SITE PLAN
SCALE: 1" = 20'-0"



A7 BID ALT 4 - SITE PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. FLAG POLE, REFER TO LANDSCAPE
2. SITE WORK WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLANS C6.01 AND C6.02
3. LANDSCAPE CURBING, REFER TO LANDSCAPE
4. HEAVY ASPHALT SECTION – 4" THICK ASPHALT OVER 12" TOP COURSE PER WSDOT 9–03.9(3)
5. STANDARD CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9–03.9(3). TROWEL CONTROL JOINTS AT 5' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
6. HEAVY CONCRETE SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9–03.9(3). TROWEL CONTROL JOINTS AT 10' O.C. AND INSTALL EXPANSION JOINTS AT 30' O.C.
7. ACCESSIBLE RAMP, SEE DETAIL B4/C5.01 C3/C5.01
8. PAINT 4" WIDE WHITE PARKING STRIPE, PER WSDOT M-20.10
9. PAINT 8" WIDE WHITE LANE STRIPE, PER WSDOT M-20.10
10. PAINT 18" WIDE YELLOW "NO CROSSING" PEDESTRIAN STRIPE, 6" OFF OF BACK OF CURB (UNLESS NOTED OTHER WISE), PER WSDOT M-24.60
11. 4" THICK BY 12" WIDE CONCRETE APRON OVER 4" OF 5/8" MINUS CRUSHED ROCK BASE, AROUND BUILDING WHERE SHOWN, SEE DETAIL A6/C5.01
12. DRIVEWAY, SEE DETAIL D3/C5.01
13. DECORATIVE CONCRETE COMPASS CONCRETE SECTION – 4" THICK CONCRETE SIDEWALK OVER 4" TOP COURSE PER WSDOT 9–03.9(3), REFER TO LANDSCAPE PLAN FOR CONTROL AND EXPANSION JOINTS AND OTHER REQUIREMENTS
14. ENCLOSURE WALLS TO TIE INTO BUILDING, REFER TO ARCHITECTURAL
15. FENCING, MOW STRIP AND GATES, REFER TO LANDSCAPE
16. HEAVY CONCRETE WITH REINFORCING SECTION – 6" THICK CONCRETE OVER 6" TOP COURSE PER WSDOT 9–03.9(3) WITH #4 AT 18"O.C. E.W. AT MID–DEPTH IN SLAB, TROWEL CONTROL JOINTS AS SHOWN AND INSTALL EXPANSION JOINTS AT 30' O.C. MAX, REFER TO LANDSCAPE FOR REQUIRED CONCRETE JOINT FILLER, ACRYLIC SPORT SURFACING, SPORTS AREA EQUIPMENT, AND MARKINGS
17. 4" THICK BY 18" WIDE CONCRETE APRON OVER 4" OF 5/8" MINUS CRUSHED ROCK BASE, AROUND BUILDING WHERE SHOWN, SEE DETAIL A6/C5.01
18. CONCRETE INLET, SEE DETAIL C1/C5.01
19. PAINT NO PARKING ZONE AS SHOWN ON PLANS WITH 4" WIDE WHITE STRIPES SPACED AT 36" ON CENTER

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. CURB RETURN RADII ARE 5.0' RADIUS UNLESS NOTED OTHERWISE.
3. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
4. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP), SEE WSDOT STD PLAN A–40.10–04 FOR REINFORCEMENT BAR SPACING AND JOINTS.
5. WHERE NEW SIDEWALK, DRIVEWAY OR ACCESSIBLE RAMP TIES INTO (E)SIDEWALK, REMOVE AND REPLACE ADDITIONAL SIDEWALK PANEL FOR ADA TRANSITION IF REQUIRED.
6. REFER TO LANDSCAPE FOR FENCING, GATES AND/OR MOW STRIP.

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44313
REGISTERED PROFESSIONAL ENGINEER
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KNUTZEN ENGINEERING

CADFILE: 23109C001

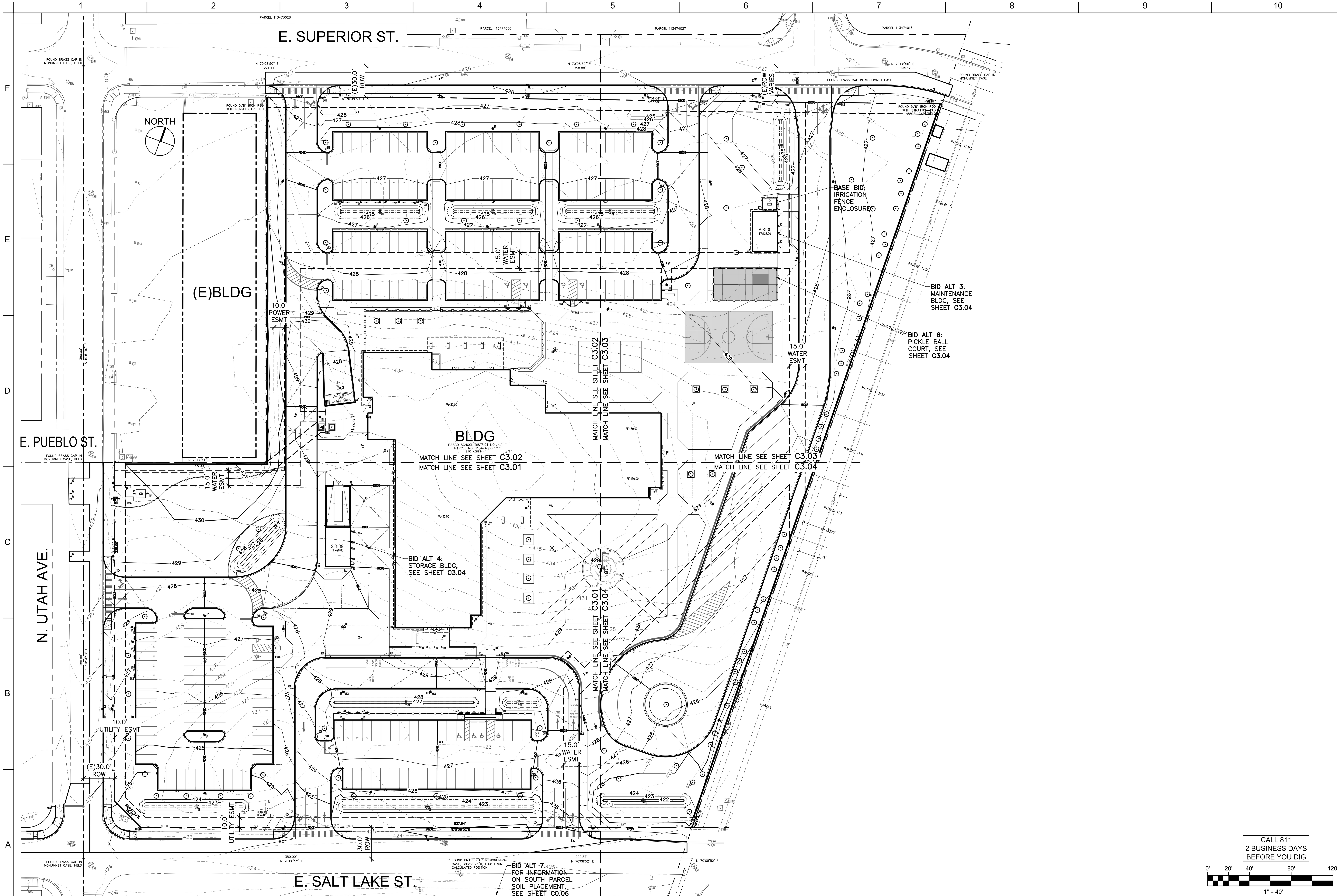
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
PARTIAL SITE PLAN

SHEET
C2.04



A1 OVERALL GRADING PLAN
SCALE: 1" = 40'-0"

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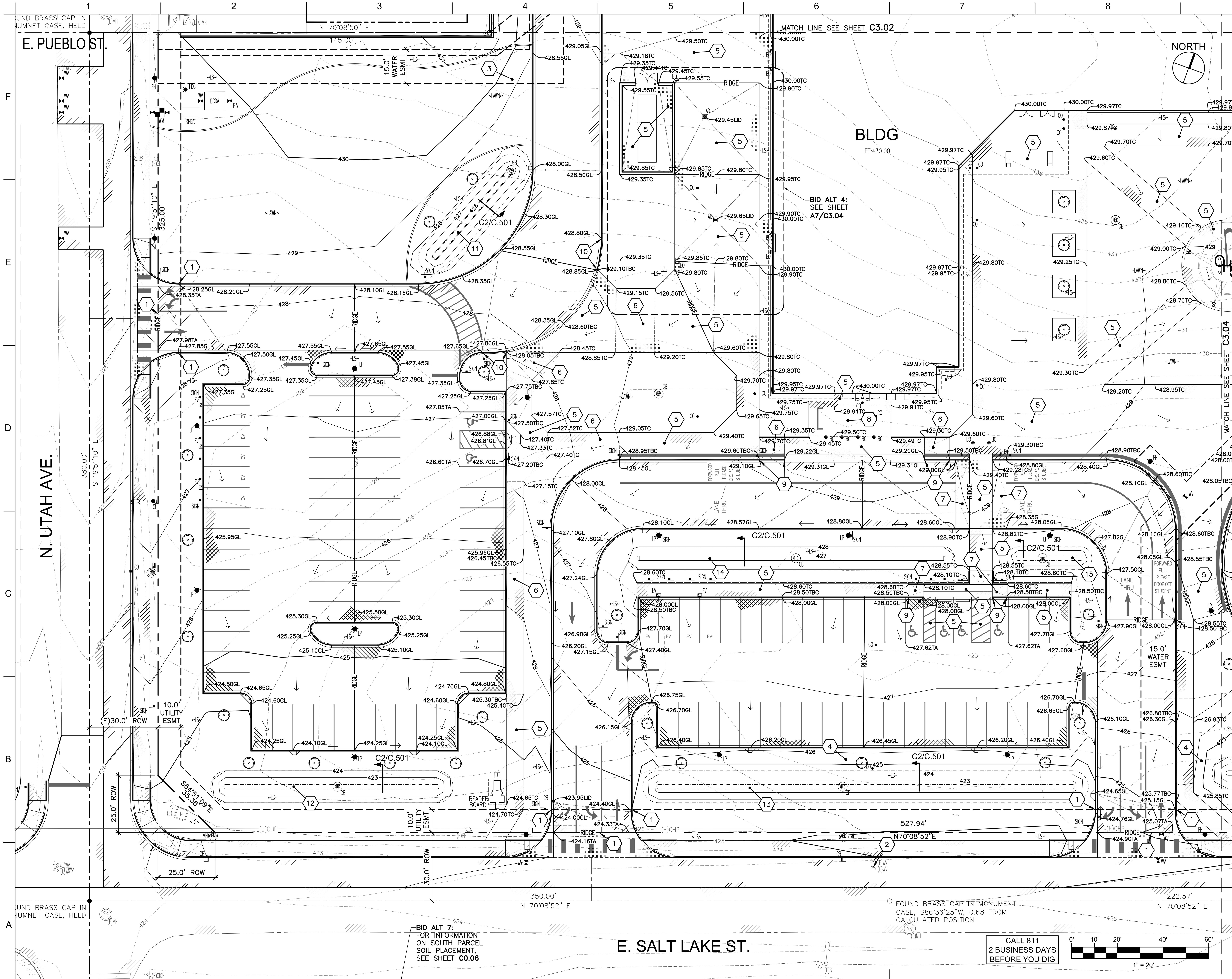
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
OVERALL GRADING PLAN

SHEET
C3.00



A1 PARTIAL GRADING PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH ROAD WORK ELEVATION
2. ADJUST EXISTING LID TO NEW GRADE ELEVATIONS
3. MAXIMUM 5:1 SLOPE IN LAWN AREAS
4. MAXIMUM 3:1 SLOPE IN LANDSCAPE AREAS
5. MAXIMUM 2% SLOPE IN ANY DIRECTION IN ACCESSIBLE PARKING, CROSS WALK, OR MAIN WALK AREAS
6. MAXIMUM 5% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE
7. MAXIMUM 8.33% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE IN RAMP
8. MAXIMUM 3% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE
9. 0" TO 6" CURB TRANSITION, SEE SITE PLAN FOR DIMENSIONS
10. 3" TO 6" CURB TRANSITION, SEE SITE PLAN FOR DIMENSIONS
11. SWALE– 50.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 425.90, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
12. SWALE– 90.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 422.00, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
13. SWALE– 180.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 422.50, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
14. SWALE– 130.0'Lx2.0'Wx1.0' DEEP BOTTOM WITH 4:1 SIDE SLOPES, BOTTOM ELEVATION 427.00, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
15. SWALE– 25.0'Lx2.0'Wx1.0' DEEP BOTTOM WITH 4:1 SIDE SLOPES, BOTTOM ELEVATION 426.40, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C4.01 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE, UNLESS NOTED OTHERWISE.
6. DO NOT COMPACT SOILS IN SWALE/DITCH AREAS BEYOND 85% OF MDD PER ASTM D1557.

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PAUL T. KNUTZEN
STATE OF WASHINGTON
44313
REGISTERED PROFESSIONAL ENGINEER
12/18/23

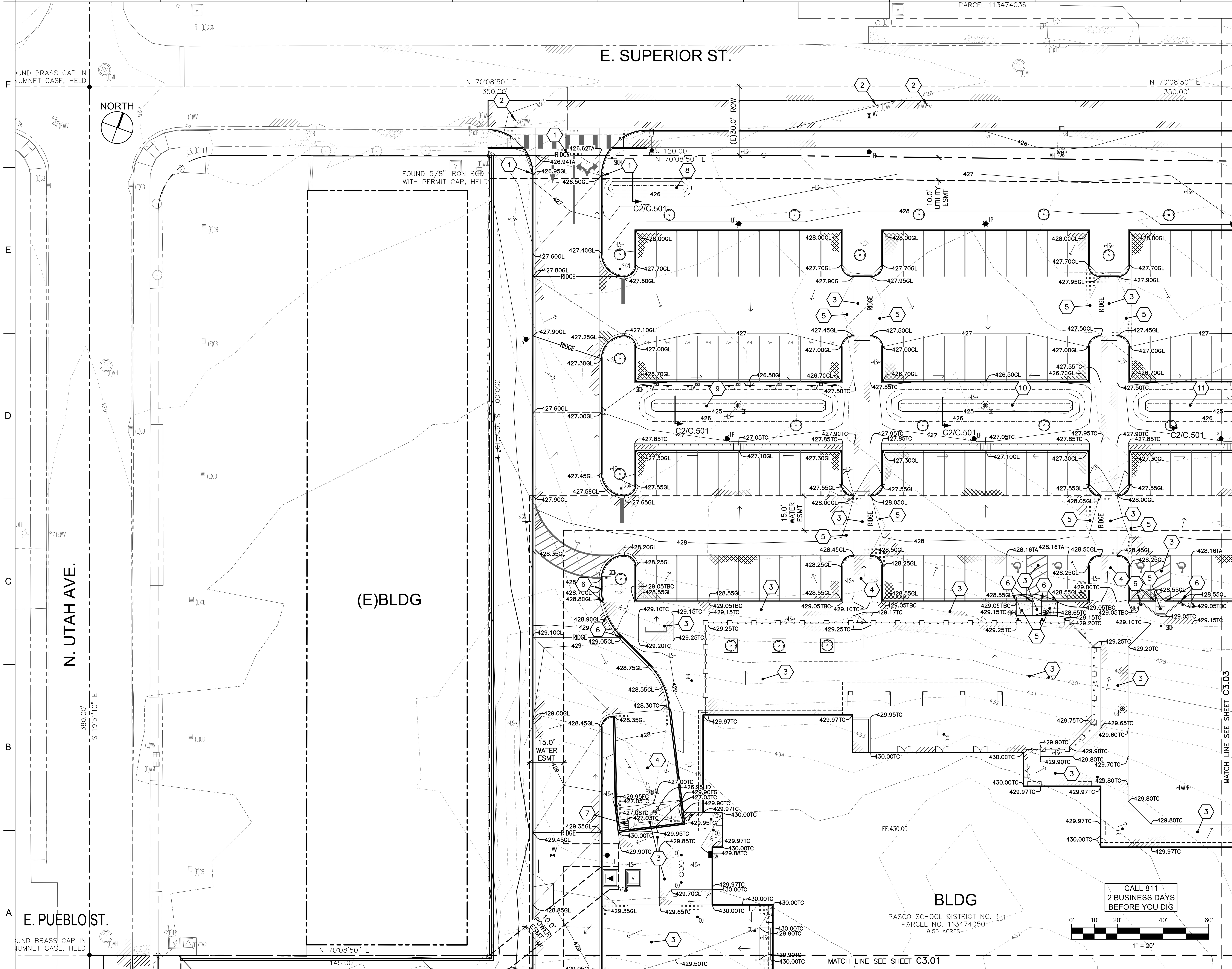
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: **12/18/2023**

SHEET NAME: **PARTIAL GRADING PLAN**

SHEET: **C3.01**



A1 PARTIAL GRADING PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH ROAD WORK ELEVATION
2. ADJUST EXISTING LID TO NEW GRADE ELEVATIONS
3. MAXIMUM 2% SLOPE IN ANY DIRECTION IN ACCESSIBLE PARKING, CROSS WALK, OR MAIN WALK AREAS
4. MAXIMUM 5% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE
5. MAXIMUM 8.33% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE IN RAMP
6. 0" TO 6" CURB TRANSITION, SEE SITE PLAN FOR DIMENSIONS
7. STEPS, REFER TO STRUCTURAL, GRADES SHOWN ARE FOR TOP STEP AND BOTTOM LANDING
8. SWALE– 30.0'Lx2.0'Wx1.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 425.40, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
9. SWALE– 70.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 424.50, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
10. SWALE– 70.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 424.50, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
11. SWALE– 80.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 424.50, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C4.02 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE, UNLESS NOTED OTHERWISE.
6. DO NOT COMPACT SOILS IN SWALE/DITCH AREAS BEYOND 85% OF MDD PER ASTM D1557.

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• KENNEWICK, WASHINGTON • ONTARIO OREGON •
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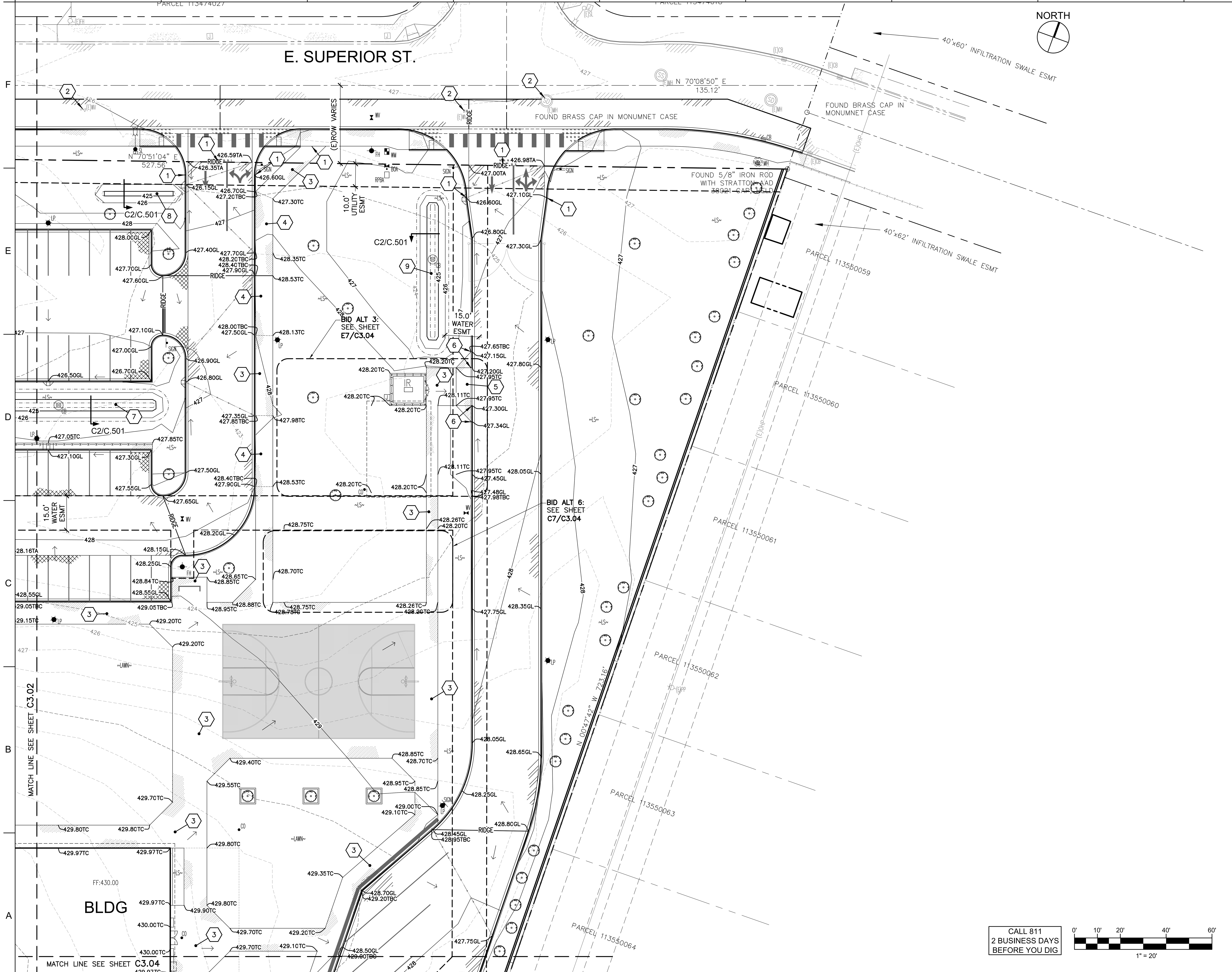

A1 PARTIAL GRADING PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH ROAD WORK ELEVATION
2. ADJUST EXISTING LID TO NEW GRADE ELEVATIONS
3. MAXIMUM 2% SLOPE IN ANY DIRECTION IN ACCESSIBLE PARKING, CROSS WALK, OR MAIN WALK AREAS
4. MAXIMUM 5% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE
5. MAXIMUM 8.33% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE IN RAMP
6. 0" TO 6" CURB TRANSITION, SEE SITE PLAN FOR DIMENSIONS
7. SWALE– 80.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 424.50, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
8. SWALE– 30.0'Lx2.0'Wx1.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 425.00, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
9. SWALE– 55.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 424.50, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C4.03 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE, UNLESS NOTED OTHERWISE.
6. DO NOT COMPACT SOILS IN SWALE/DITCH AREAS BEYOND 85% OF MDD PER ASTM D1557.

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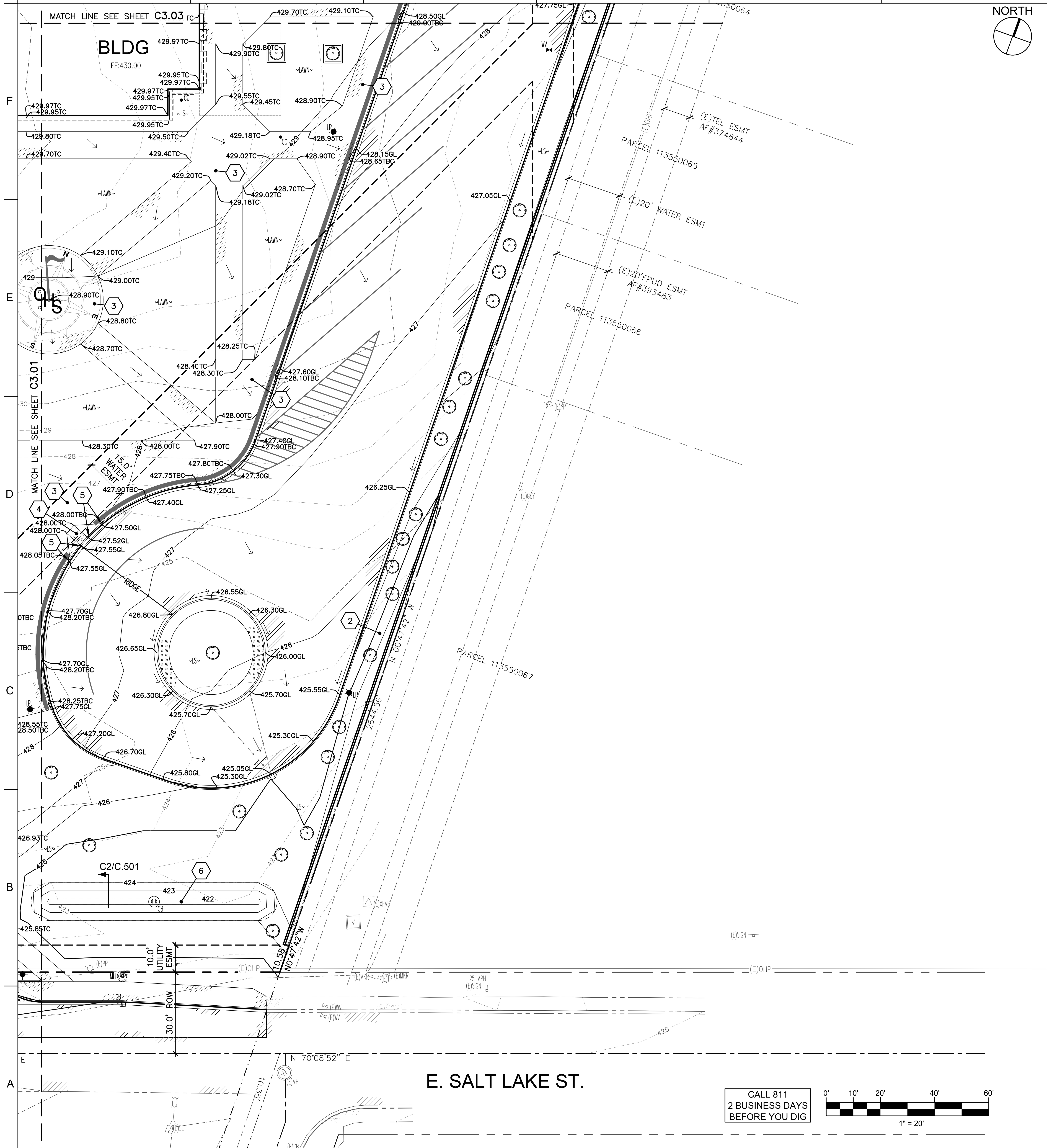
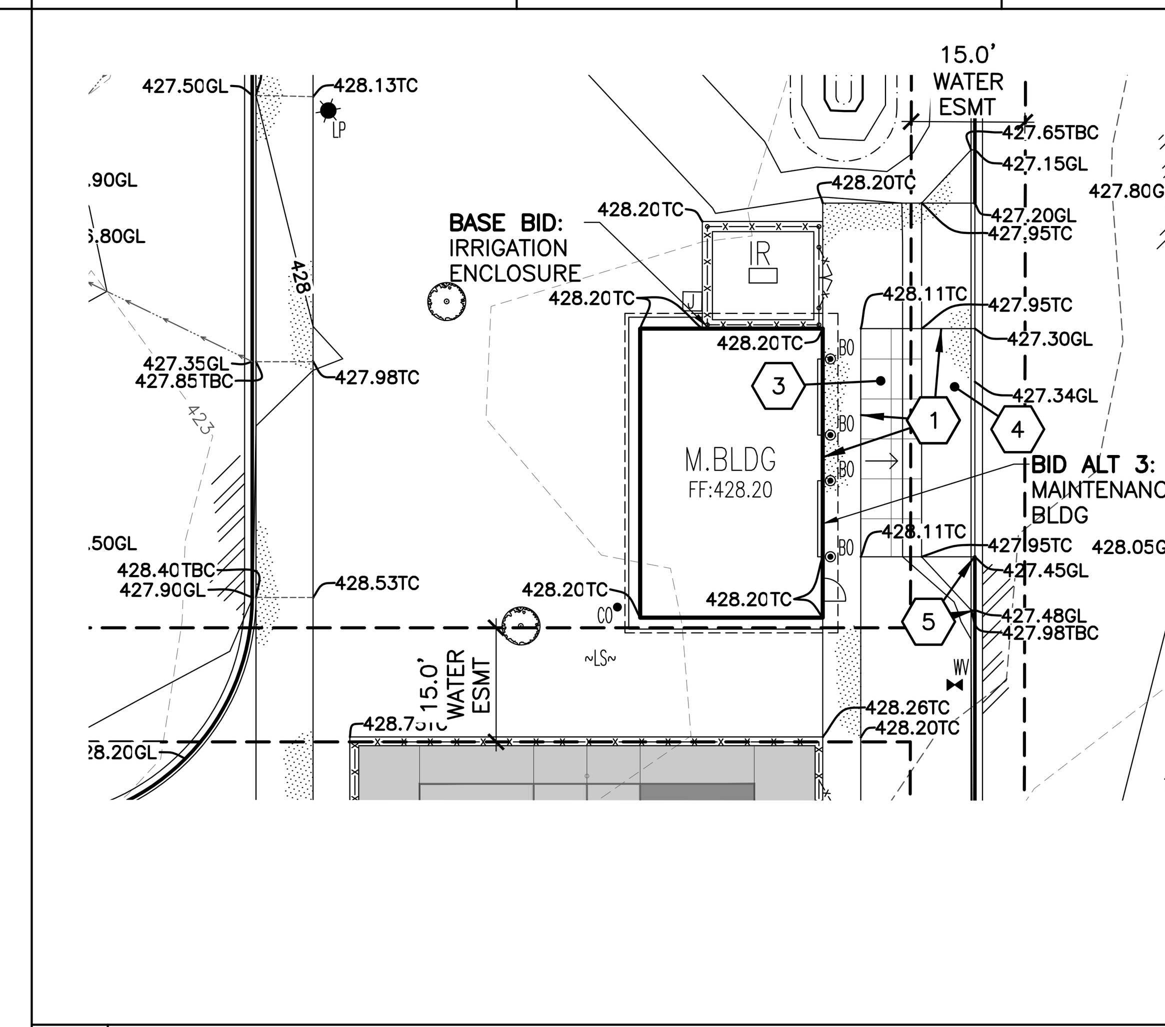
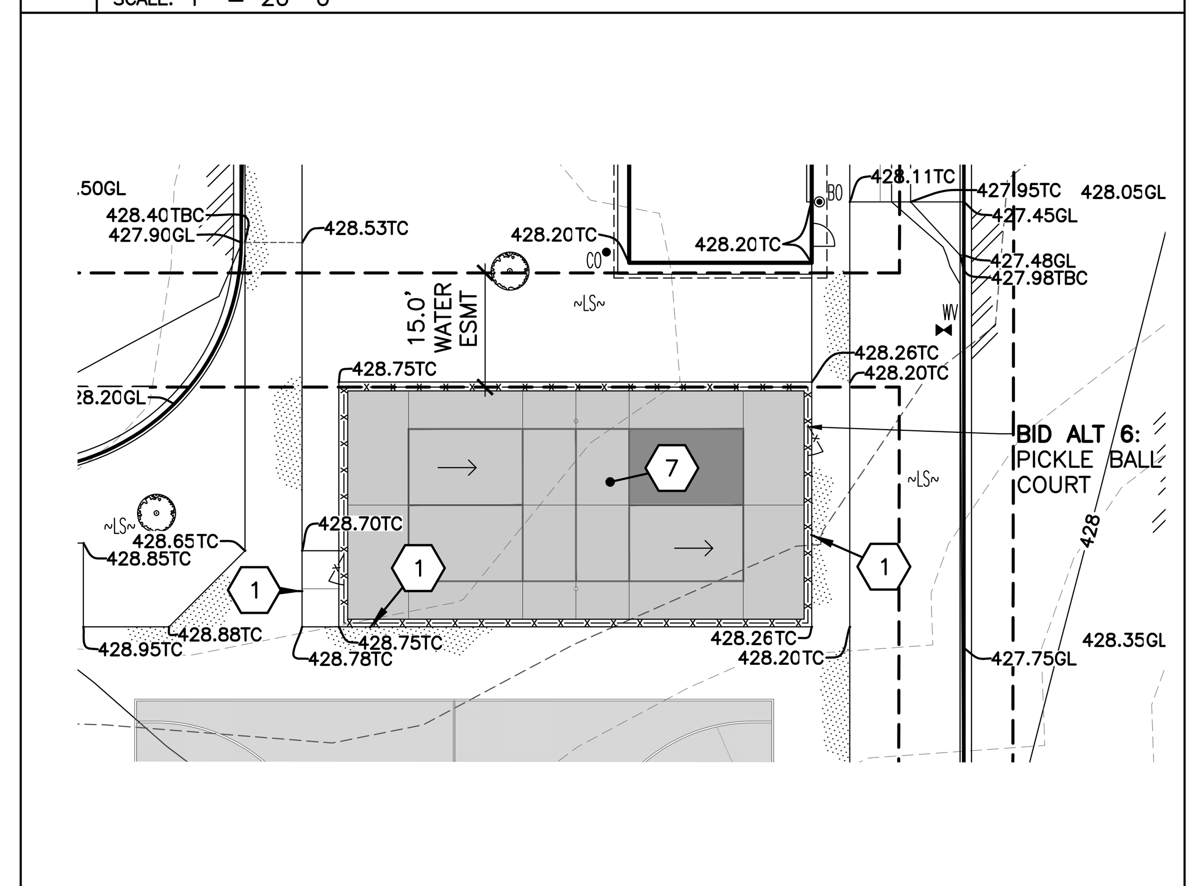


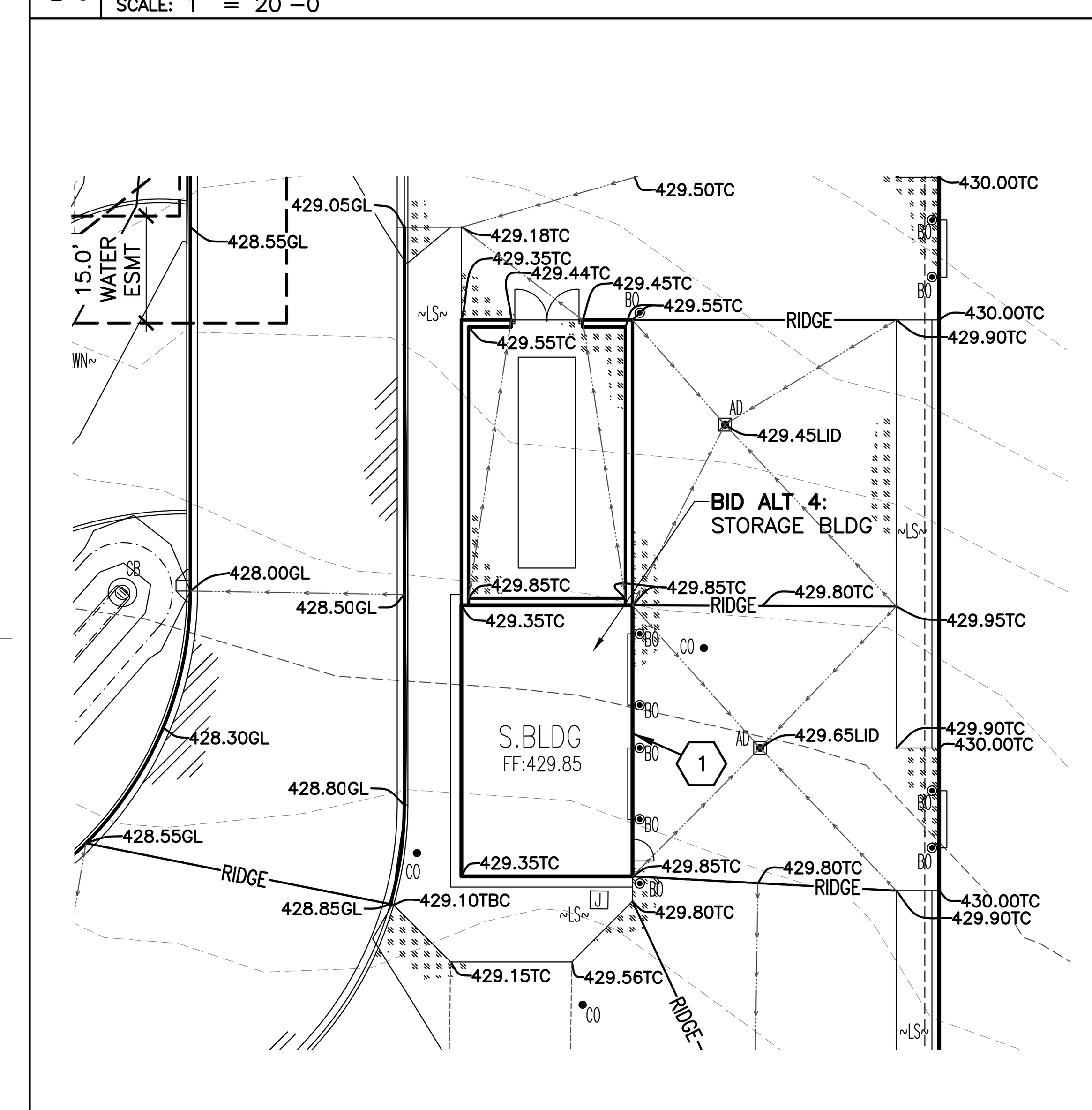
A1 PARTIAL GRADING PLAN
SCALE: 1" = 20'-0"



E7 BID ALT 3 - GRADING PLAN
SCALE: 1" = 20'-0"



C7 BID ALT 6 - GRADING PLAN
SCALE: 1" = 20'-0"



A7 BID ALT 4 - GRADING PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. MEET AND MATCH BASE BID ELEVATION
2. MAXIMUM 3:1 SLOPE IN LANDSCAPE AREAS
3. MAXIMUM 2% SLOPE IN ANY DIRECTION IN ACCESSIBLE PARKING, CROSS WALK, OR MAIN WALK AREAS
4. MAXIMUM 8.33% SLOPE IN DIRECTION OF TRAVEL WITH 2% CROSS SLOPE IN RAMP
5. 0" TO 6" CURB TRANSITION, SEE SITE PLAN FOR DIMENSIONS
6. SWALE– 75.0'Lx2.0'Wx2.0' DEEP BOTTOM WITH 3:1 SIDE SLOPES, BOTTOM ELEVATION 422.00, APPROXIMATELY – CF OF STORAGE CAPACITY, OVER EXCAVATE 2.0' BEYOND BOTTOM OF SWALE AND COMPACT SOILS NO MORE THAN 85% OF MDD PER ASTM D1557
7. MAXIMUM 0.8% SLOPE IN COURT IN ANY DIRECTION

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. SPOT ELEVATIONS AND CONTOURS ARE TO THE TOP OF SIDEWALK, CURB, OR PAVEMENT FINISHED SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. SEE DRAWING C4.04 FOR CATCH BASIN LOCATION DIMENSIONS.
5. DO NOT EXCEED MAXIMUM SLOPE OF 4:1 IN ALL AREAS OF SITE, UNLESS NOTED OTHERWISE.
6. DO NOT COMPACT SOILS IN SWALE/DITCH AREAS BEYOND 85% OF MDD PER ASTM D1557.

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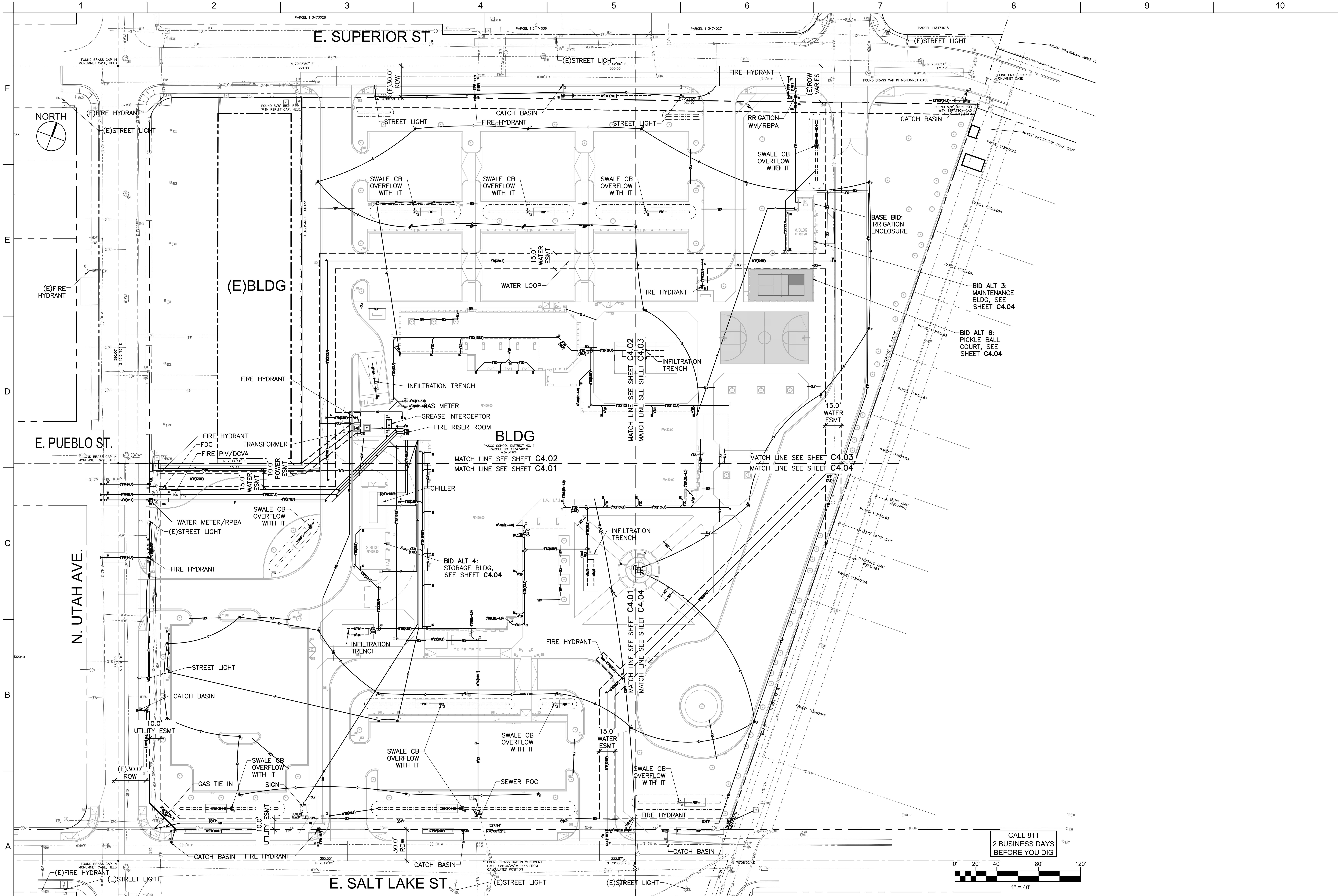

A1 OVERALL UTILITY PLAN
SCALE: 1" = 40'-0"

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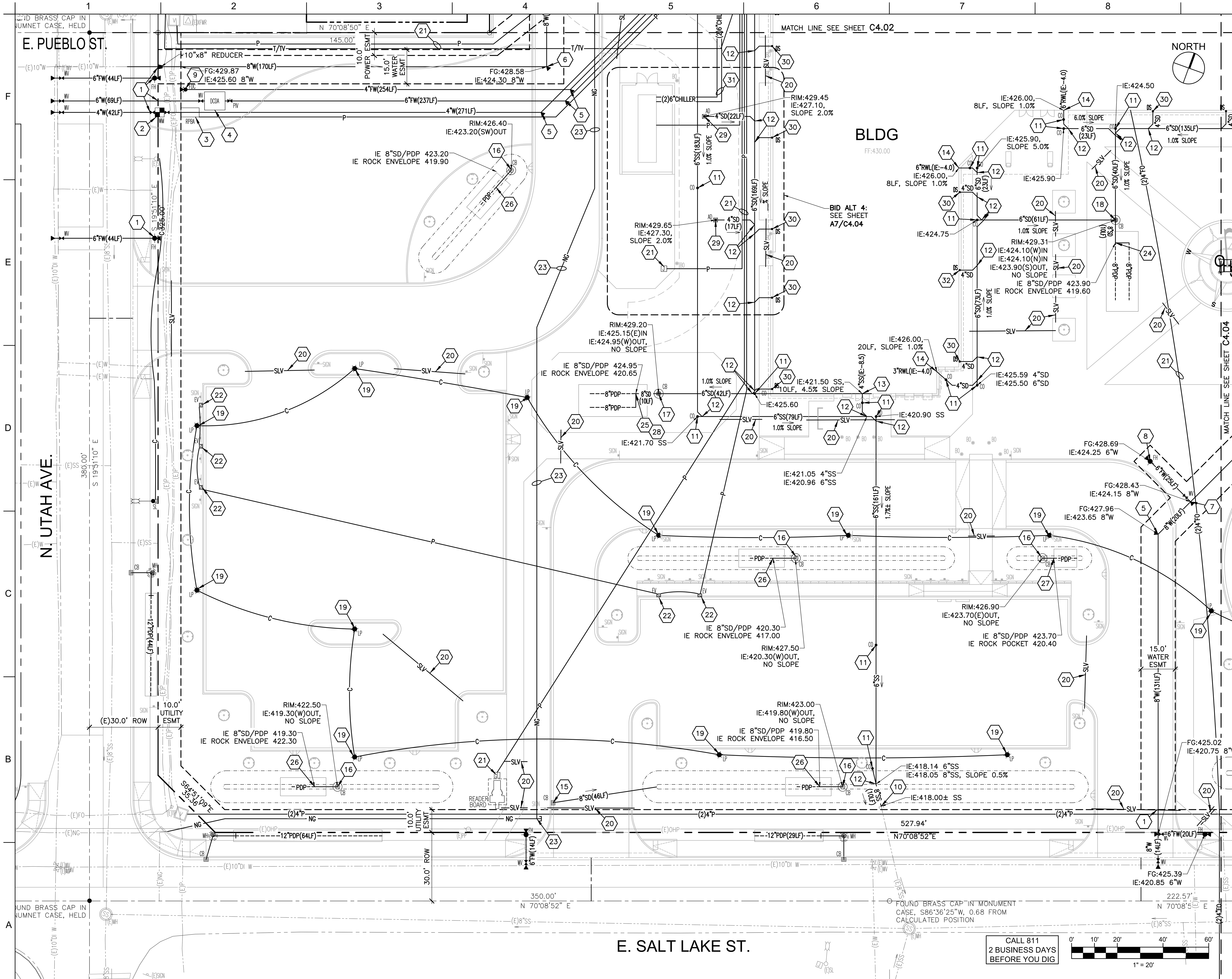

A1 PARTIAL UTILITY PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. UTILITIES WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLAN AND PROFILES SHEETS C6.01 AND C6.02
2. 3" WATER METER PROVIDED BY CITY AT OWNERS EXPENSE, CONTRACTOR TO SUPPLY AND INSTALL METER VAULT AND TWO (2) 4" GATE VALVES, PER CITY STD DETAIL W-4 AND W-7
3. 3" REDUCED PRESSURE BACKFLOW ASSEMBLY, PROVIDE ELECTRICAL CONDUIT FROM BUILDING FOR FREEZE PROTECTION, PER CITY STD DETAIL W-18
4. 6" GATE VALVE, 6" DOUBLE CHECK DETECTOR ASSEMBLY, PIV, AND FIRE LINE TO BUILDING, PER CITY STD DETAIL W-11 AND W-16
5. 45° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W-8
6. 90° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W-8
7. 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAIL W-4 AND W-8
8. FIRE HYDRANT WITH CURB PROTECTION, PER CITY STD DETAIL W-10 AND W-12
9. INSTALL FIRE DEPARTMENT CONNECTION WITHIN 90.0' OF FIRE HYDRANT, COORDINATE WITH FIRE DEPARTMENT REQUIREMENTS
10. TIE SEWER LINE INTO EXISTING SEWER STUB, CONTRACTOR TO VERIFY INVERT AND LOCATION PRIOR TO CONSTRUCTION, CONTACT ENGINEER WITH RESULTS
11. CLEANOUT TO GRADE, SEE DETAIL B1/C5.02
12. WYE CONNECTION
13. FOR PIPE CONTINUATION REFER TO MECHANICAL
14. RAINWATER LEADER WITH CLEAN OUT TO GRADE, COORDINATE WITH MECHANICAL FOR LOCATION, SEE DETAIL B1/C5.02
15. CATCH BASIN IN CURB, SEE DETAIL A3/C5.02
16. CATCH BASIN WITH CONCRETE COLLAR, SEE DETAIL A5/C5.02
17. CATCH BASIN WITH CONCRETE COLLAR AND SOLID LID, SEE DETAIL A5/C5.02
18. TYPE 2 CATCH BASIN WITH CONCRETE COLLAR AND SOLID LID, SEE DETAIL B5/C5.02
19. LIGHT POLE, BASE AND ASSOCIATED CONDUIT, REFER TO ELECTRICAL
20. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
21. ELECTRICAL/TELEPHONE/DATA SHOWN FOR REFERENCE, REFER TO ELECTRICAL FOR DETAILS
22. ELECTRICAL EV INFRASTRUCTURE SHOWN FOR REFERENCE, REFER TO ELECTRICAL FOR DETAILS
23. CONNECT TO EXISTING NATURAL GAS LINE AT SOUTHWEST CORNER OF PROPERTY, FIELD VERIFY LOCATION, COORDINATE WITH CASCADE NATURAL GAS, CONTRACTOR TO PROVIDE TRENCH AND BACKFILL TO GRADE FOR GAS LINE UP TO BUILDING GAS METER PER CASCADE NATURAL GAS SPECIFICATIONS
24. 14.0'Wx35.0'Lx5.0'DEEP ROCK ENVELOPE, WITH TWO SETS OF 25 LF OF 8"PDP, CONNECTED TO 6 LF OF 8"SD HEADER AND 8"SD INLET WITH TEES AND ELBOWS, SEE DETAIL B4/C5.02
25. 14.0'Wx30.0'Lx5.0'DEEP ROCK ENVELOPE, WITH TWO SETS OF 20 LF 8"PDP, CONNECTED TO 6 LF OF 8"SD HEADER AND 8"SD INLET WITH TEES AND ELBOWS, SEE DETAIL B4/C5.02
26. 8.0'Wx20.0'Lx4.0'DEEP ROCK ENVELOPE, WITH 10 LF OF 8"PDP, CONNECTED TO 8"SD INLET, SEE DETAIL B3/C5.02
27. 8.0'Wx10.0'Lx4.0'DEEP ROCK ENVELOPE, WITH 5 LF OF 8"PDP, CONNECTED TO 8"SD INLET, SEE DETAIL B3/C5.02
28. INFILTRATION TRENCH SHALL BE UNDERLAIN WITH 18" OF TREATMENT SOIL, TREATMENT SOIL SHALL HAVE A CATION EXCHANGE CAPACITY (CEC) GREATER THAN OR EQUAL TO 5 MILLIEQUIVALENTS CEC/100 G DRY SOIL AND AT LEAST 1% ORGANIC CONTENT, SOIL SHALL BE TESTED AND CERTIFIED PRIOR TO PLACEMENT BY GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY, REPORTING OF THIS TESTING SHALL BE SENT TO THE ENGINEER OF RECORD
29. AREA DRAIN, SEE DETAIL B6/C5.02
30. DOWN SPOUT CONNECTION, SEE DETAIL B2/C5.02, COORDINATE WITH ARCHITECTURAL FOR LOCATION
31. CHILLER LINES, REFER TO MECHANICAL

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. ALL SITE ELECTRICAL WORK MAY NOT BE SHOWN ON THE CIVIL SITE DRAWINGS, SITE ELECTRICAL IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL PLANS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION.
5. REFER TO ELECTRICAL PLANS FOR TELEPHONE, FIBER OPTICS EQUIPMENT AND CONDUIT, FOR LOCATIONS, DETAILS AND SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY FOR TIE IN LOCATION AND SPECIFICATIONS.
6. REFER TO MECHANICAL FOR GAS METER AND COORDINATE WITH GAS COMPANY FOR CONDUIT LOCATION AND SPECIFICATIONS.
7. ALL WATERMAINS AND SERVICES SHALL HAVE 42" MINIMUM COVER.

DESIGN WEST ARCHITECTS, P.A.
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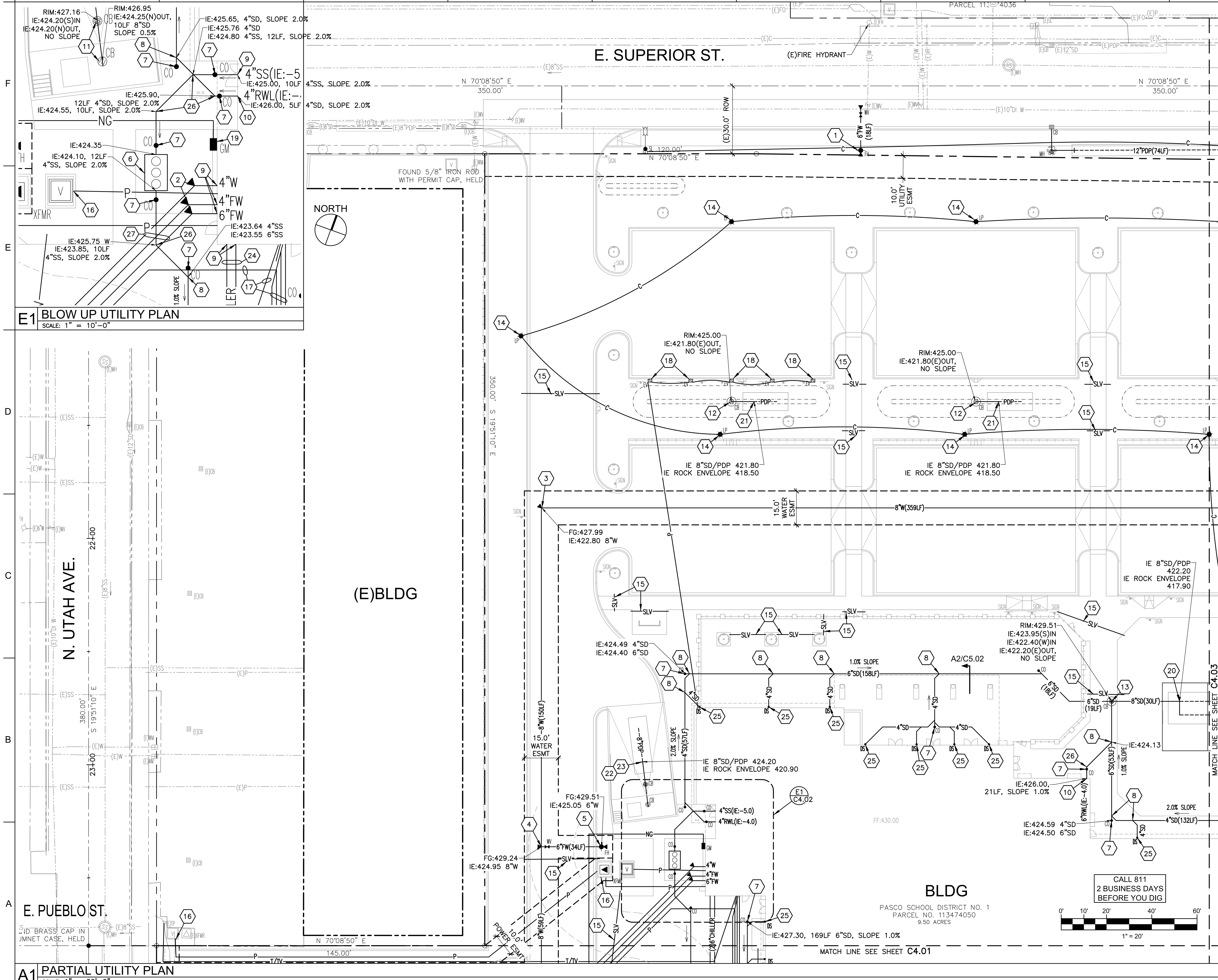

KEY NOTES

1. UTILITIES WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLAN AND PROFILE SHEET C6.04
2. 45° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W-8
3. 90° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W-8
4. 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAIL W-4 AND W-8
5. FIRE HYDRANT WITH CURB PROTECTION, PER CITY STD DETAIL W-10 AND W-12
6. 1,500 GALLON GREASE INTERCEPTOR WITH VENT PIPE BACK TO BUILDING, REFER TO MECHANICAL, PROVIDE CLEAN OUT TO GRADE BEFORE AND AFTER THE DEVICE, SEE DETAIL B1/C5.02
7. CLEANOUT TO GRADE, SEE DETAIL B1/C5.02
8. WYE CONNECTION
9. FOR PIPE CONTINUATION REFER TO MECHANICAL
10. RAINWATER LEADER WITH CLEAN OUT TO GRADE, COORDINATE WITH MECHANICAL FOR LOCATION, SEE DETAIL B1/C5.02
11. FLUSH CATCH BASIN, SEE DETAIL A4/C5.02
12. CATCH BASIN WITH CONCRETE COLLAR, SEE DETAIL A5/C5.02
13. TYPE 2 CATCH BASIN WITH CONCRETE COLLAR AND SOLID LID, SEE DETAIL B5/C5.02
14. LIGHT POLE, BASE AND ASSOCIATED CONDUIT, REFER TO ELECTRICAL
15. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
16. PROVIDE TRENCH AND BACKFILL TO GRADE FROM EXISTING JUNCTION ENCLOSURE TO NEW TRANSFORMER AND METER, REFER TO ELECTRICAL, COORDINATE WITH POWER COMPANY
17. ELECTRICAL/TELEPHONE/DATA SHOWN FOR REFERENCE, REFER TO ELECTRICAL FOR DETAILS
18. ELECTRICAL EV INFRASTRUCTURE SHOWN FOR REFERENCE, REFER TO ELECTRICAL FOR DETAILS
19. CONNECT TO EXISTING NATURAL GAS LINE AT SOUTHWEST CORNER OF PROPERTY, FIELD VERIFY LOCATION, COORDINATE WITH CASCADE NATURAL GAS, CONTRACTOR TO PROVIDE TRENCH AND BACKFILL TO GRADE FOR GAS LINE UP TO BUILDING GAS METER PER CASCADE NATURAL GAS SPECIFICATIONS
20. 14.0'Wx50.0'Lx5.0'DEEP ROCK ENVELOPE, WITH TWO SETS OF 40 LF 8"PDP, CONNECTED TO 6 LF OF 8"SD HEADER AND 8"SD INLET WITH TEES AND ELBOWS, SEE DETAIL B4/C5.02
21. 8.0'Wx20.0'Lx4.0'DEEP ROCK ENVELOPE, WITH 10 LF OF 8"PDP, CONNECTED TO 8"SD INLET, SEE DETAIL B3/C5.02
22. INFILTRATION TRENCH SHALL BE UNDERLAIN WITH 18" OF TREATMENT SOIL, TREATMENT SOIL SHALL HAVE A CATION EXCHANGE CAPACITY (CEC) GREATER THAN OR EQUAL TO 5 MILLIEQUIVALENTS CEC/100 G DRY SOIL AND AT LEAST 1% ORGANIC CONTENT, SOIL SHALL BE TESTED AND CERTIFIED PRIOR TO PLACEMENT BY GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY, REPORTING OF THIS TESTING SHALL BE SENT TO THE ENGINEER OF RECORD
23. 8.0'Wx25.0'Lx4.0'DEEP ROCK ENVELOPE, WITH 15 LF OF 8"PDP, CONNECTED TO 8"SD INLET, SEE DETAIL B3/C5.02
24. CHILLER LINES, REFER TO MECHANICAL
25. DOWN SPOUT CONNECTION, SEE DETAIL B2/C5.02, COORDINATE WITH ARCHITECTURAL FOR LOCATION
26. BEND
27. UTILITY CROSSING, SEWER LINE SHALL CROSS UNDER WATER LINE WITH 18" SEPARATION, PROVIDE 20.0' LONG PRESSURE RATED CASTING PIPE SLEEVE WHEN SEPARATION CANNOT BE MET, CENTER SLEEVE AT WATER CROSSING

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
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3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. ALL SITE ELECTRICAL WORK MAY NOT BE SHOWN ON THE CIVIL SITE DRAWINGS, SITE ELECTRICAL IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL PLANS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION.
5. REFER TO ELECTRICAL PLANS FOR TELEPHONE, FIBER OPTICS EQUIPMENT AND CONDUIT, FOR LOCATIONS, DETAILS AND SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY FOR TIE IN LOCATION AND SPECIFICATIONS.
6. REFER TO MECHANICAL FOR GAS METER AND COORDINATE WITH GAS COMPANY FOR CONDUIT LOCATION AND SPECIFICATIONS.
7. BACKFLOW PROTECTION IS INSTALLED INSIDE THE BUILDING.

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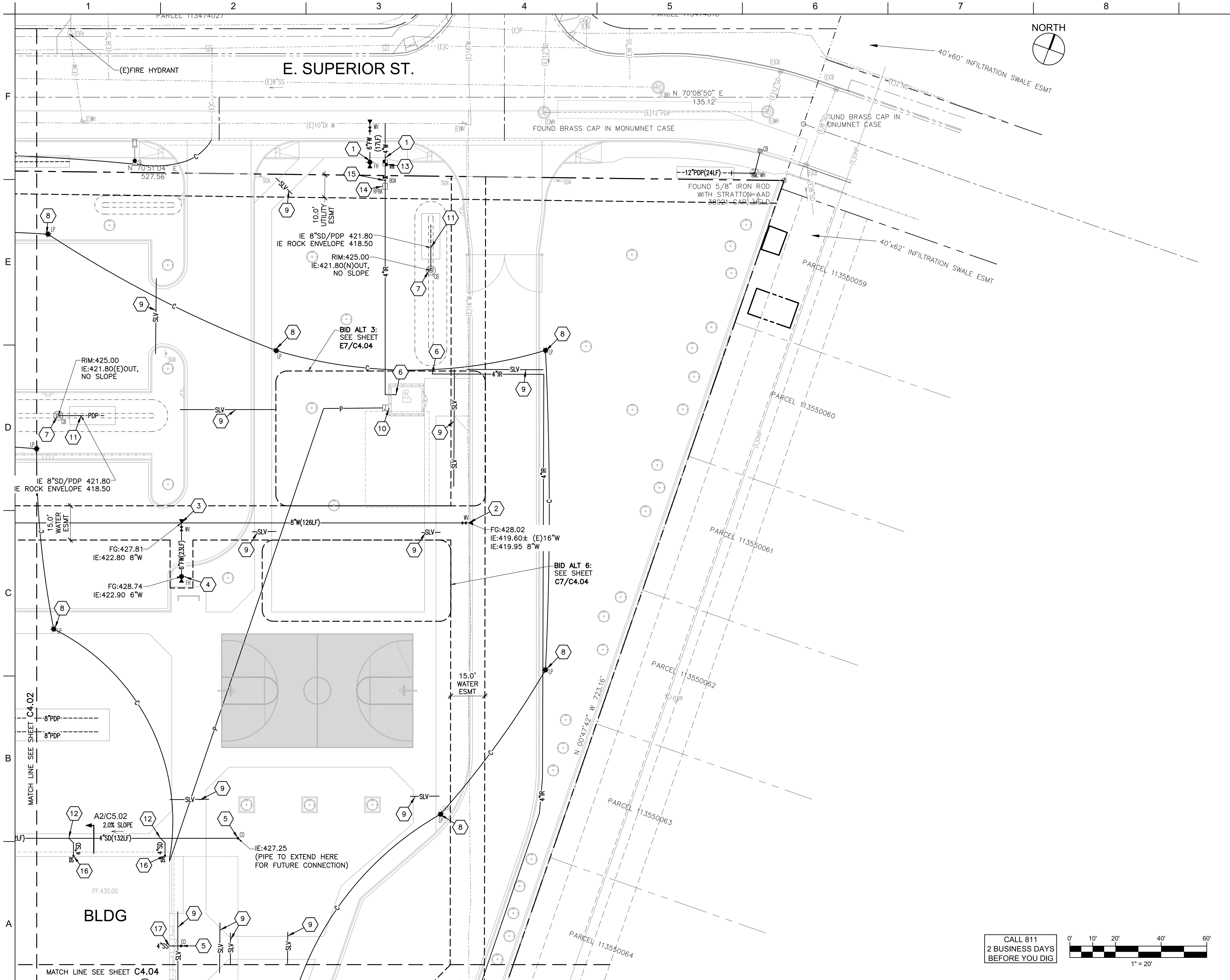

A1 PARTIAL UTILITY PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. UTILITIES WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLAN AND PROFILE SHEET C6.04
2. 16"x8" TAPPING TEE WITH 8" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-4 AND W-8
3. 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAIL W-4 AND W-8
4. FIRE HYDRANT WITH CURB PROTECTION, PER CITY STD DETAIL W-10 AND W-12
5. CLEANOUT TO GRADE, SEE DETAIL B1/C5.02
6. FOR PIPE CONTINUATION REFER TO IRRIGATION
7. CATCH BASIN WITH CONCRETE COLLAR, SEE DETAIL A5/C5.02
8. LIGHT POLE, BASE AND ASSOCIATED CONDUIT, REFER TO ELECTRICAL
9. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
10. ELECTRICAL/TELEPHONE/DATA SHOWN FOR REFERENCE, REFER TO ELECTRICAL FOR DETAILS
11. 8.0'Wx20.0'Lx4.0'DEEP ROCK ENVELOPE, WITH 10 LF OF 8"PDP, CONNECTED TO 8"SD INLET, SEE DETAIL B3/C5.02
12. WYE CONNECTION
13. 2" WATER METER PROVIDED BY CITY AT OWNERS EXPENSE, CONTRACTOR TO SUPPLY AND INSTALL METER BOX, PER CITY STD DETAIL W-3
14. 2" REDUCED PRESSURE BACKFLOW ASSEMBLY, IN HOT BOX, PROVIDE ELECTRICAL CONDUIT FROM BUILDING FOR FREEZE PROTECTION, PER CITY STD DETAIL W-17
15. IRRIGATION SERVICE BLOW-OFF ASSEMBLY, SEE DETAIL -
16. DOWN SPOUT CONNECTION, SEE DETAIL B2/C5.02, COORDINATE WITH ARCHITECTURAL FOR LOCATION
17. FOR PIPE CONTINUATION, REFER TO MECHANICAL

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. ALL SITE ELECTRICAL WORK MAY NOT BE SHOWN ON THE CIVIL SITE DRAWINGS, SITE ELECTRICAL IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL PLANS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION.
5. REFER TO ELECTRICAL PLANS FOR TELEPHONE, FIBER OPTICS EQUIPMENT AND CONDUIT, FOR LOCATIONS, DETAILS AND SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY FOR TIE IN LOCATION AND SPECIFICATIONS.
6. REFER TO MECHANICAL FOR GAS METER AND COORDINATE WITH GAS COMPANY FOR CONDUIT LOCATION AND SPECIFICATIONS.
7. BACKFLOW PROTECTION IS INSTALLED INSIDE THE BUILDING.

DESIGN WEST ARCHITECTS, P.A.
• MERIDIAN, IDAHO • PULLMAN, WASHINGTON •
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DRAWN BY: SJT
CHECKED BY: ASW
JOB NUMBER: 23053/23109
REVISIONS

PAUL T. KNUTZEN, STATE OF WASHINGTON, 44313, REGISTERED PROFESSIONAL ENGINEER
12/18/23

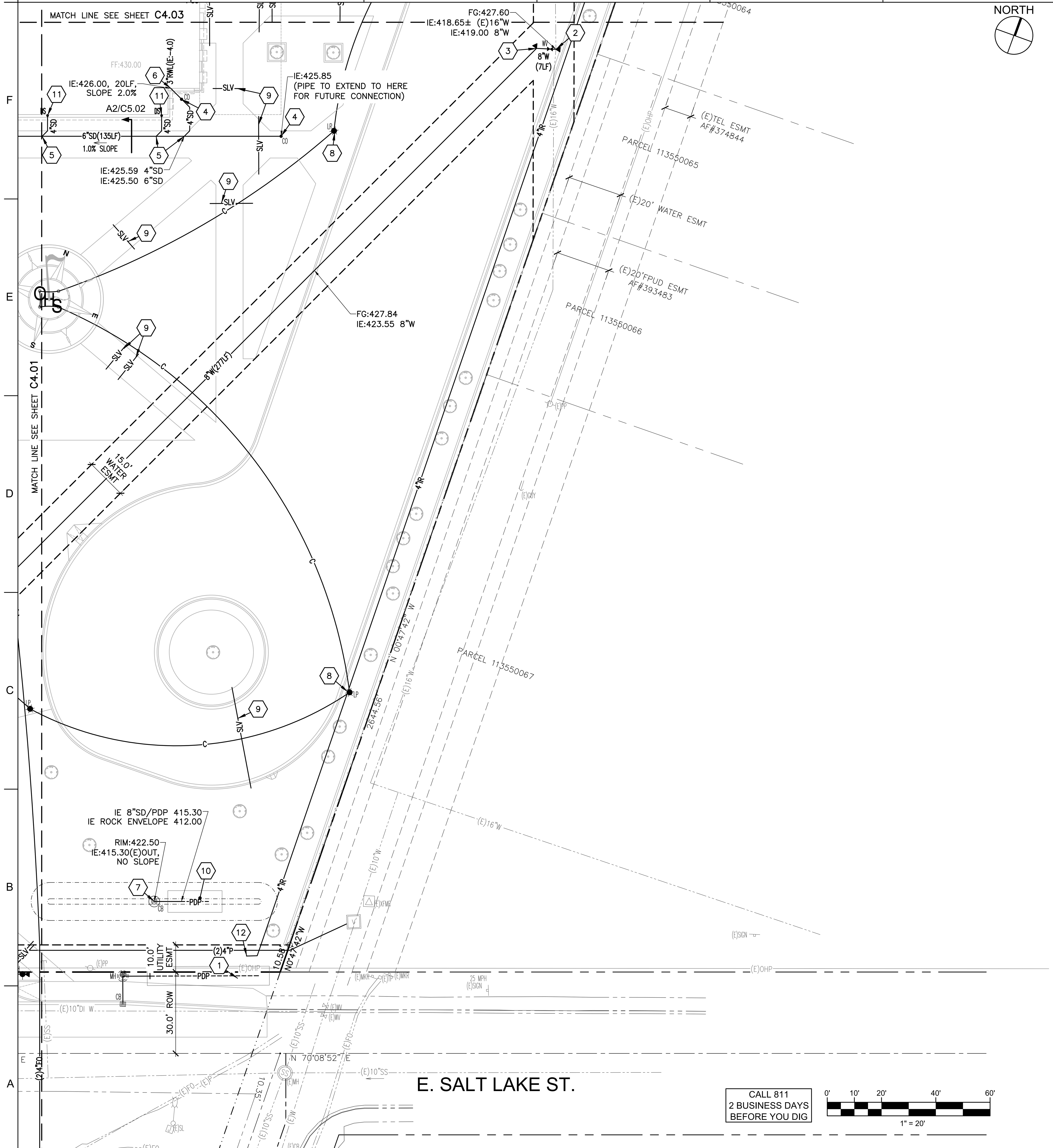
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

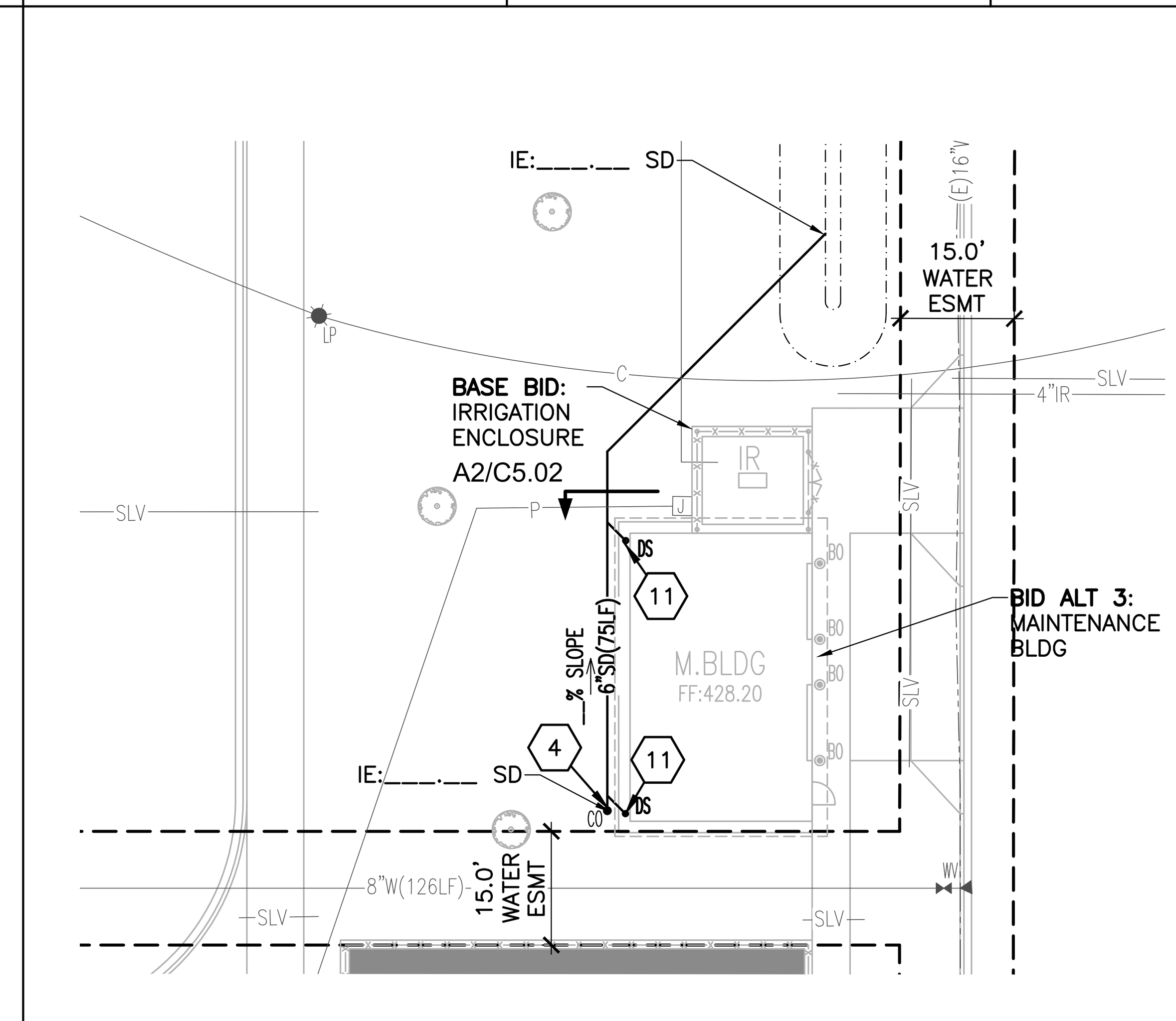
DATE: 12/18/2023

SHEET NAME: PARTIAL UTILITY PLAN

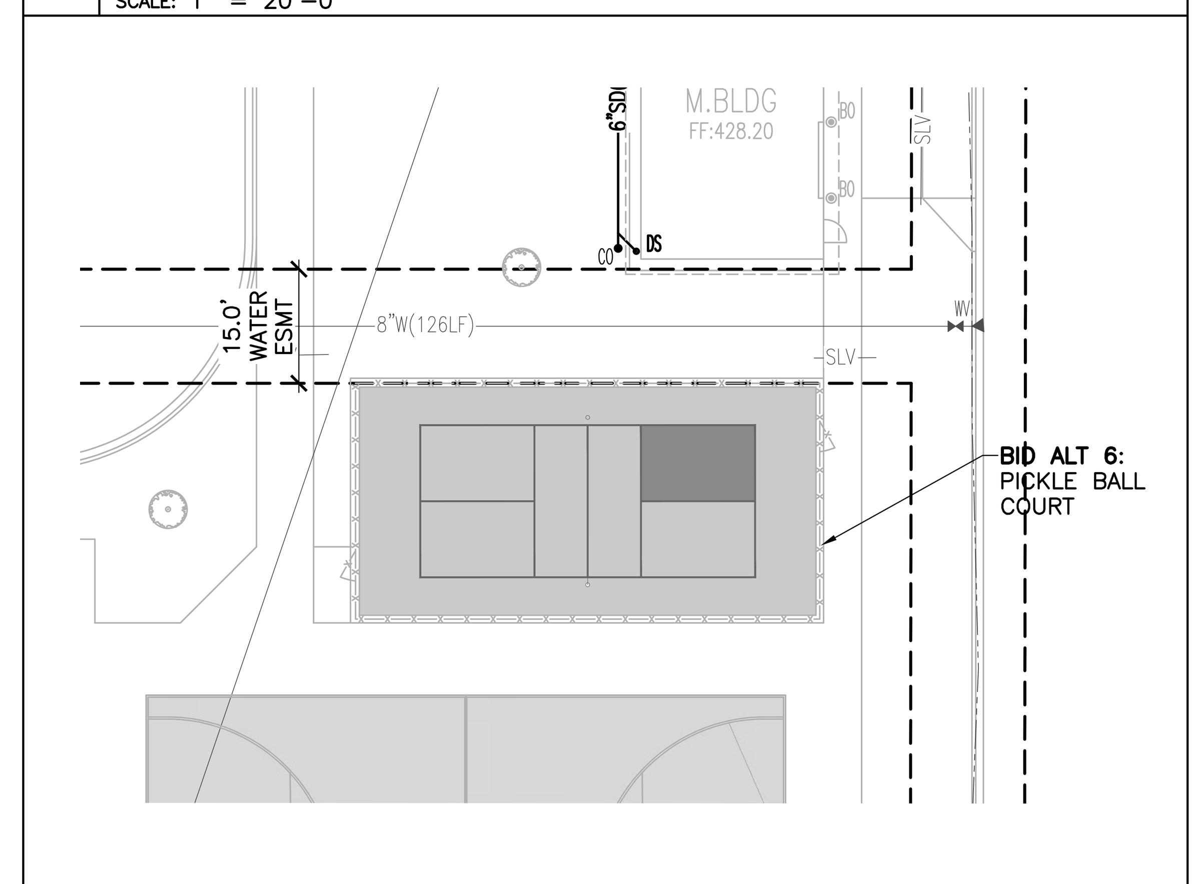
SHEET: C4.03



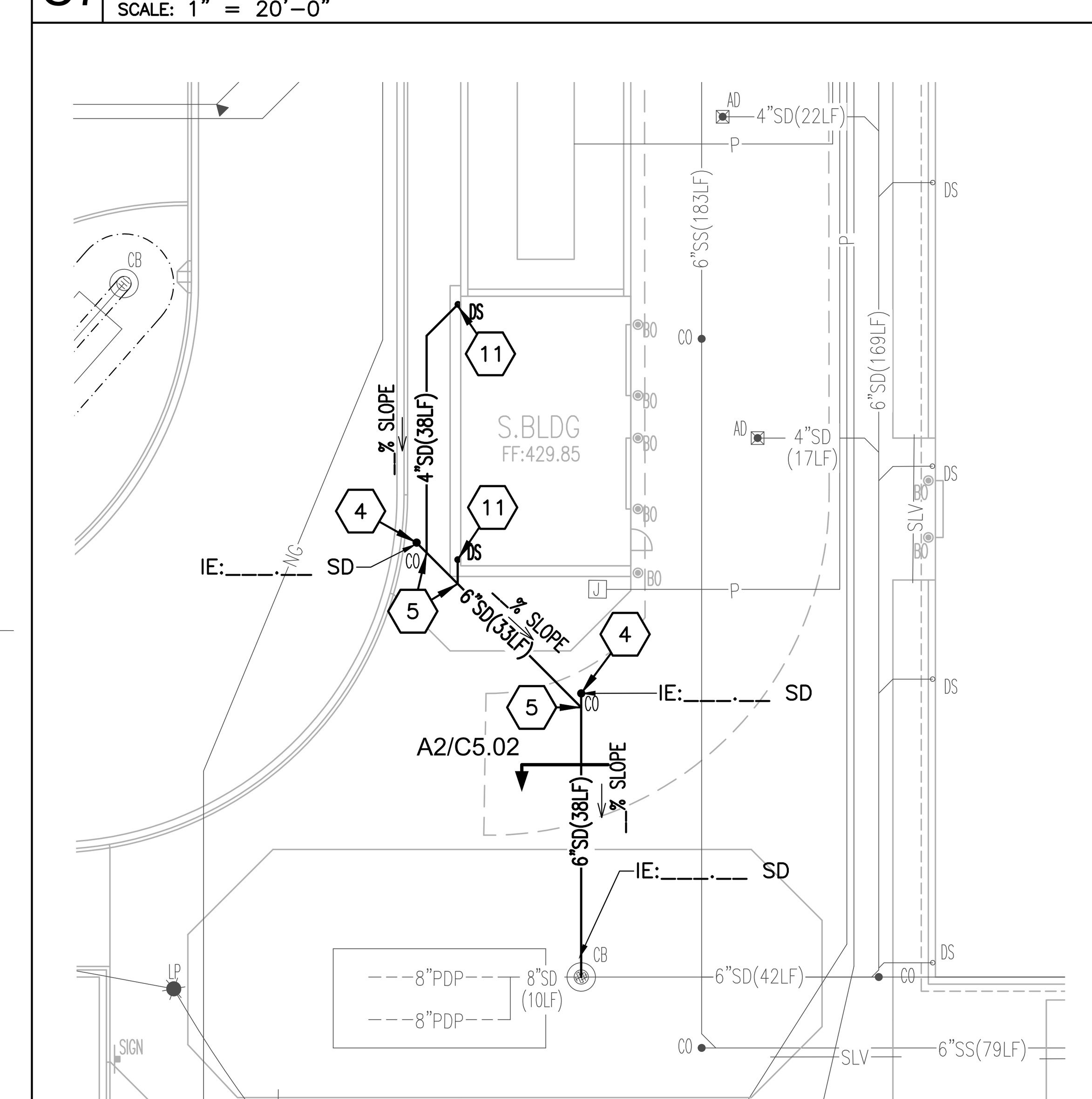
A1 PARTIAL UTILITY PLAN
SCALE: 1" = 20'-0"



E7 BID ALT 3 - UTILITY PLAN
SCALE: 1" = 20'-0"



C7 BID ALT 6 - UTILITY PLAN
SCALE: 1" = 20'-0"



A7 BID ALT 4 - UTILITY PLAN
SCALE: 1" = 20'-0"

KEY NOTES

1. UTILITIES WITHIN ROW AND ALONG ROAD FRONTAGE, REFER TO ROAD PLAN AND PROFILE SHEET C6.04
2. 16"x8" TAPPING TEE WITH 8" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-4 AND W-8
3. 45° BEND WITH THRUST BLOCK, PER CITY STD DETAIL W-8
4. CLEANOUT TO GRADE, SEE DETAIL B1/C5.02
5. WYE CONNECTION
6. RAINWATER LEADER WITH CLEAN OUT TO GRADE, COORDINATE WITH MECHANICAL FOR LOCATION, SEE DETAIL B1/C5.02
7. CATCH BASIN WITH CONCRETE COLLAR, SEE DETAIL A5/C5.02
8. LIGHT POLE, BASE AND ASSOCIATED CONDUIT, REFER TO ELECTRICAL
9. 4" IRRIGATION SLEEVE (SLV), TYPICAL. COORDINATE LOCATIONS WITH LANDSCAPE PLANS
10. 8.0'Wx20.0'Lx4.0'DEEP ROCK ENVELOPE, WITH 10 LF OF 8"PDP, CONNECTED TO 8"SD INLET, SEE DETAIL B3/C5.02
11. DOWN SPOUT CONNECTION, SEE DETAIL B2/C5.02, COORDINATE WITH ARCHITECTURAL FOR LOCATION
12. FOR PIPE CONTINUATION REFER TO IRRIGATION

NOTES

1. SEE DRAWING C0.01 FOR GENERAL NOTES AND LEGEND.
2. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
3. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK. IMMEDIATELY NOTIFY ARCHITECT OF DISCREPANCIES BEFORE WORK COMMENCES.
4. ALL SITE ELECTRICAL WORK MAY NOT BE SHOWN ON THE CIVIL SITE DRAWINGS, SITE ELECTRICAL IS SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ELECTRICAL PLANS IN THIS CONSTRUCTION PACKAGE FOR ELECTRICAL DEMOLITION, RELOCATION, AND NEW INSTALLATION.
5. REFER TO ELECTRICAL PLANS FOR TELEPHONE, FIBER OPTICS EQUIPMENT AND CONDUIT, FOR LOCATIONS, DETAILS AND SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY FOR TIE IN LOCATION AND SPECIFICATIONS.
6. REFER TO MECHANICAL FOR GAS METER AND COORDINATE WITH GAS COMPANY FOR CONDUIT LOCATION AND SPECIFICATIONS.
7. BACKFLOW PROTECTION IS INSTALLED INSIDE THE BUILDING.

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PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

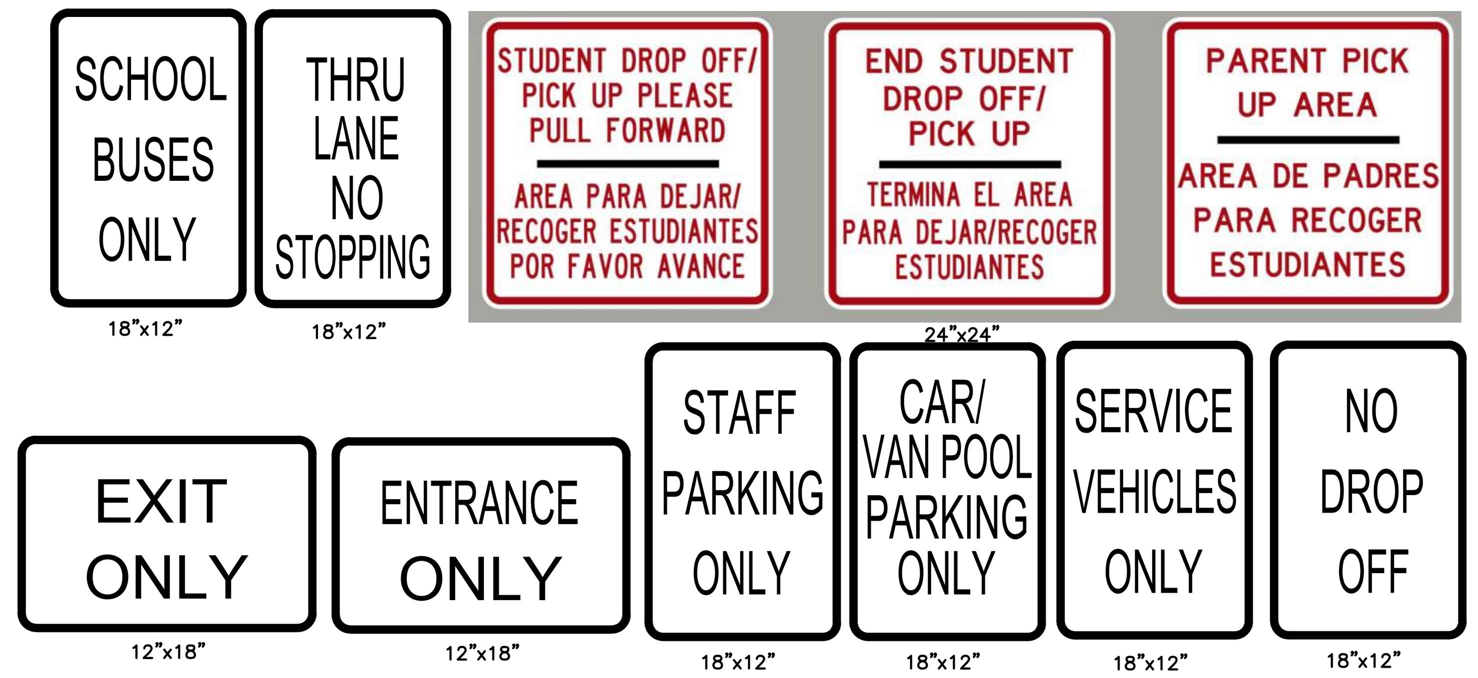
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

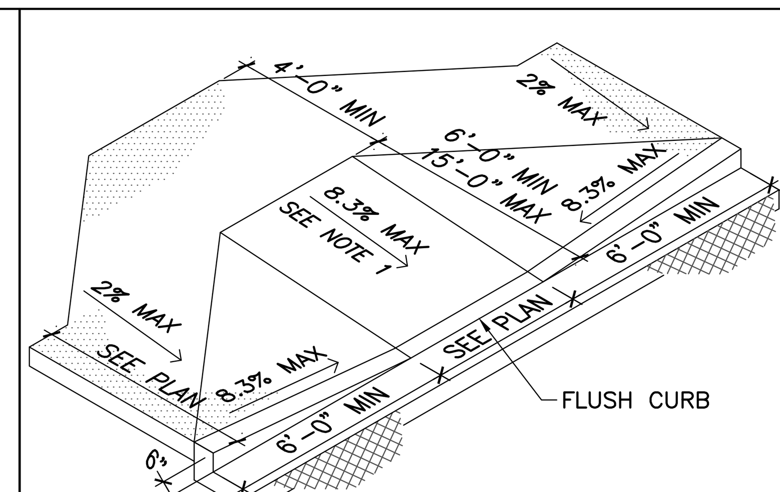
SHEET NAME
PARTIAL UTILITY PLAN

SHEET
C4.04

D1 SIGNS
SCALE: NTS REF: C2.01

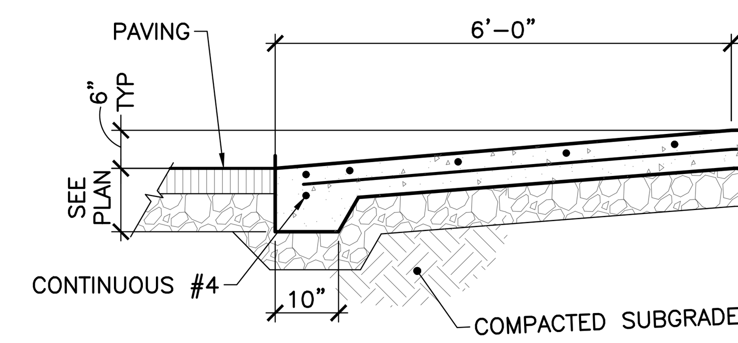


D3 DRIVEWAY
SCALE: 1/4" = 1'-0" REF: C2.01

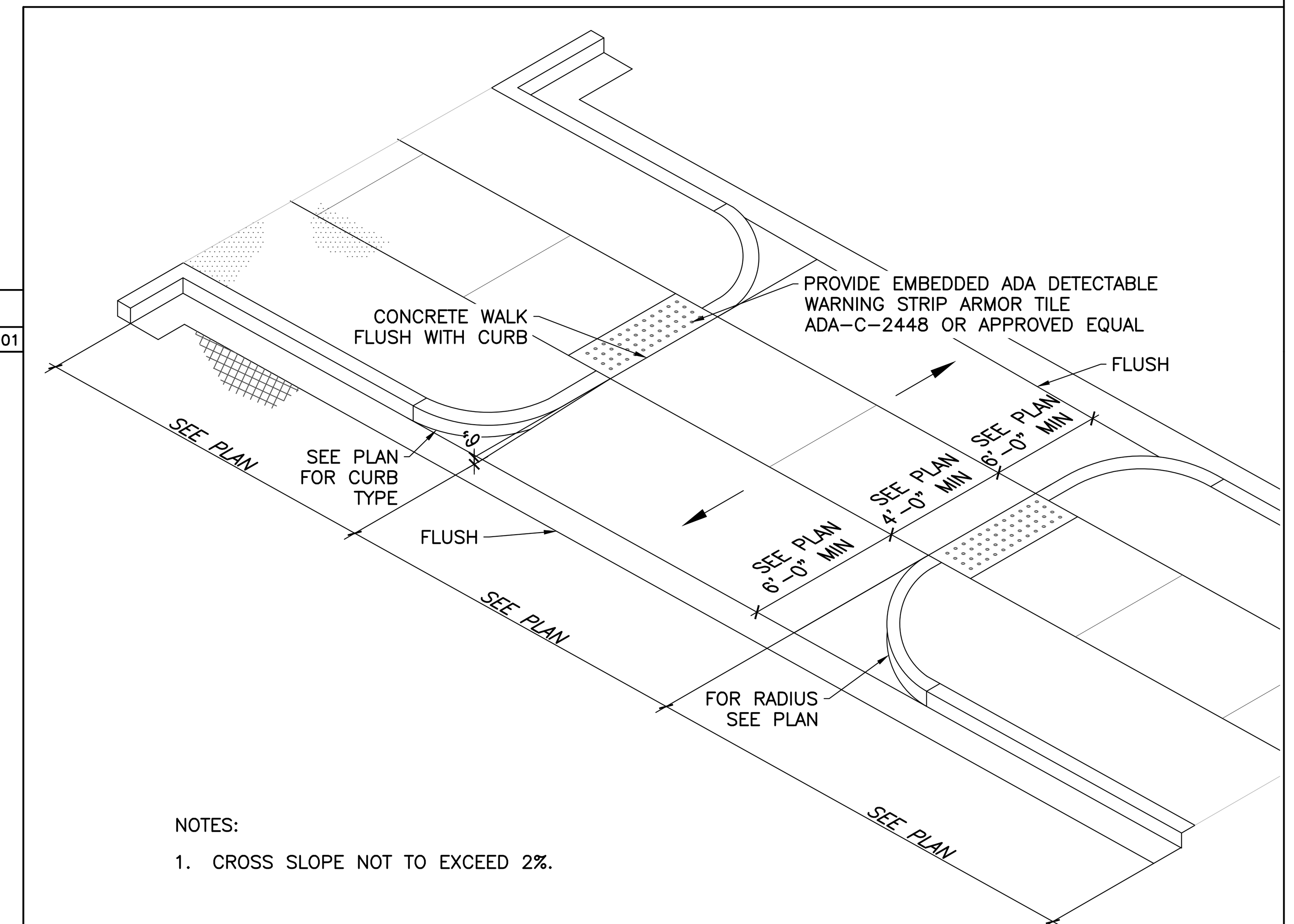


NOTES:
1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 3500 PSI AFTER 28 DAYS, 6 SACK MIX.
2. CURB JOINT SHALL BE A TROWLED JOINT WITH A MINIMUM 1/2"R ALONG THE BACK OF THE CURB.
3. SIDEWALK THROUGH DRIVEWAY SECTION SHALL BE REINFORCED WITH 6"x6" 10 GAUGE WIRE MESH.
4. CONTRACTOR SHALL USE NEAREST EXISTING EXPANSION JOINT OR SAW CUT AND PLACE COLD JOINT.
5. INSTALL 3 PIECES #4 REBAR FROM TOP OF CURB TRANSITION THROUGH ENTIRE LENGTH OF DROP SECTION TO TOP OF CURB TRANSITION.

D4 RAISED CROSS WALK SECTION
SCALE: 1/2" = 1'-0" REF: C2.01

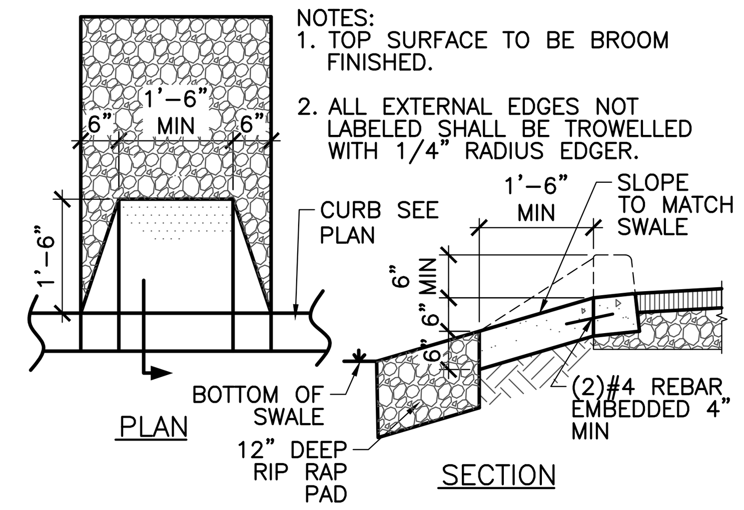


C5 RAISED CROSS WALK
SCALE: 1/4" = 1'-0" REF: C2.01



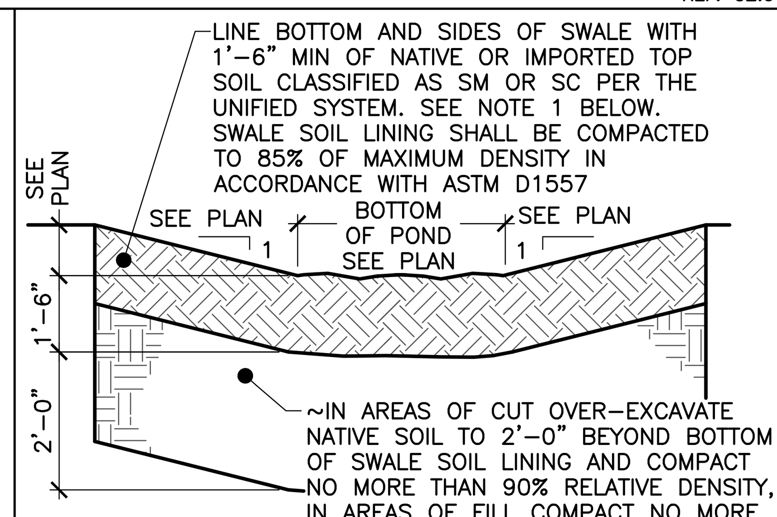
NOTES:
1. CROSS SLOPE NOT TO EXCEED 2%.

C1 CURB INLET
SCALE: 1/2" = 1'-0" REF: C3.01



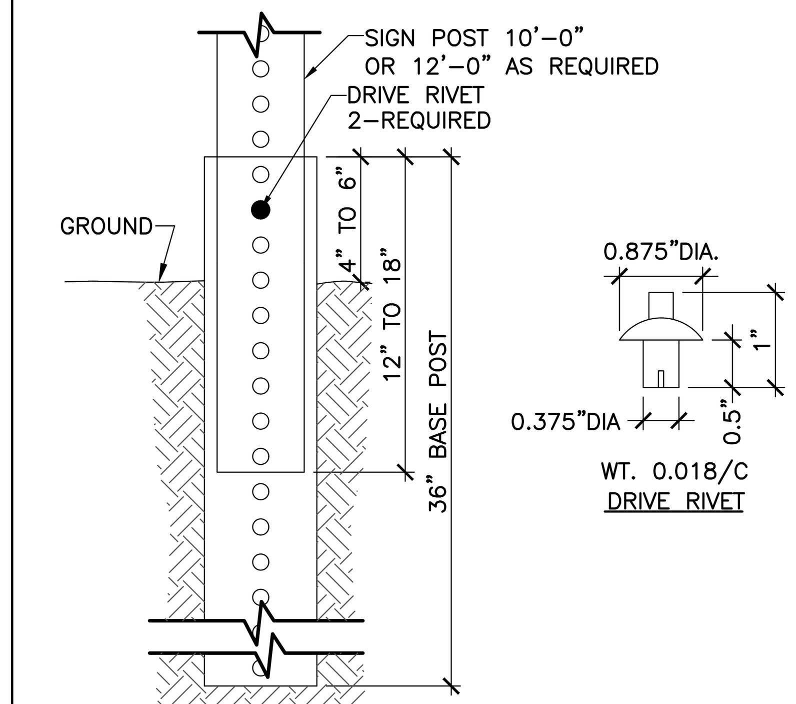
NOTES:
1. TOP SURFACE TO BE BROOM FINISHED.
2. ALL EXTERNAL EDGES NOT LABELED SHALL BE TROWELLED WITH 1/4" RADIUS EDGER.

C2 SWALE
SCALE: 1/2" = 1'-0" REF: C3.01



NOTE:
1. SOIL USED TO LINE SWALES SHALL BE CLASSIFIED AND CERTIFIED BY GEOTECHNICAL ENGINEER OR SOILS TESTING AGENCY IN DIRECT EMPLOYMENT OF THE OWNER. SOIL SHALL BE CLASSIFIED PRIOR TO PLACEMENT AND TESTED FROM EACH SWALE ONCE SAMPLE SELECTED AND TESTED FROM EACH SWALE ONCE SWALES ARE READY TO RECEIVE SOD. REPORTING OF THIS TESTING IS TO BE COPIED TO THE ENGINEER OF RECORD.

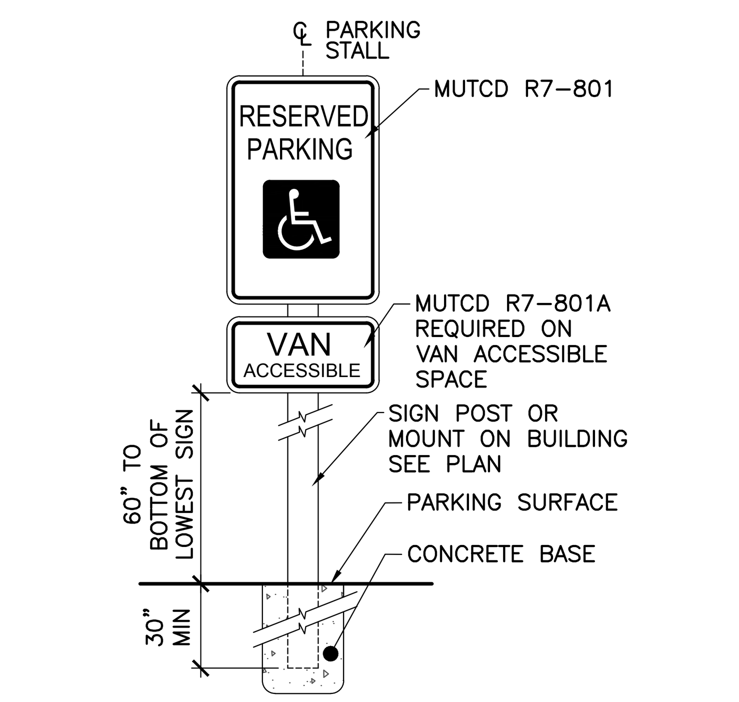
C3 SIGN POST
SCALE: 1/2" = 1'-0" REF: C2.01



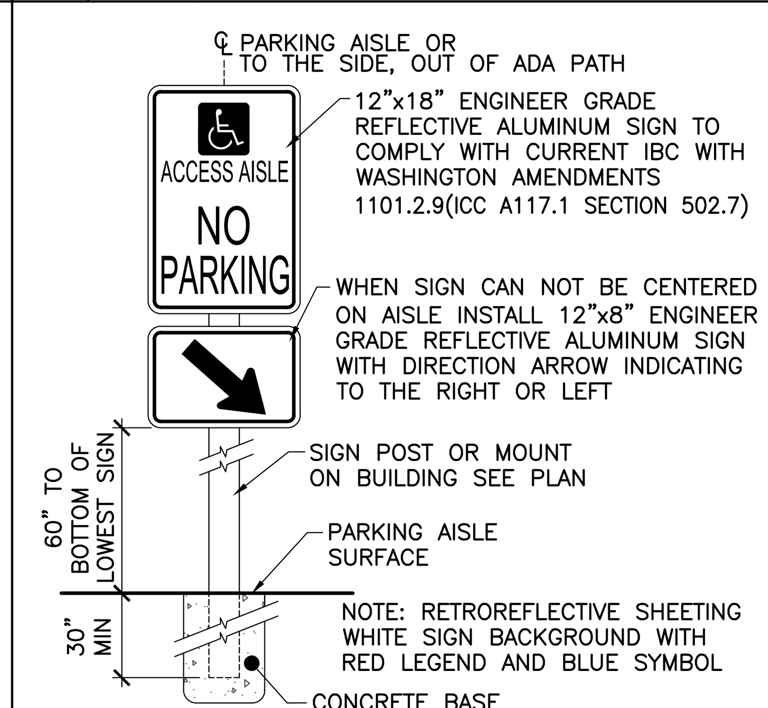
NOTES:
1. POSTS SHALL BE TELESPAR BRAND SQUARE TUBING OR APPROVED EQUAL. SIGN POST SYSTEM MUST BE BREAK AWAY TYPE TESTED IN ACCORDANCE WITH NCHRP 350 ABD APPROVED BY FHWA.
2. POSTS SHALL BE COLD ROLLED STEEL WITH PERFORATIONS OF 0.4375 INCH DIAMETER ON ONE INCH CENTERS ON ALL FOUR SIDES.
3. ALL FASTENINGS OF TUBING JOINTS AND CONNECTIONS SHALL UTILIZE A MINIMUM OF TWO DRIVE RIVETS UNLESS OTHERWISE SPECIFIED.
4. GALVANIZED COATING SHALL CONFIRM TO A.S.T.M. SPECIFICATION A-525. DES. G-90.
5. BASE POINT MUST BE DRIVEN WITH A MECHANICAL DRIVER UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. WHENEVER A SIGN WILL HAVE CONCRETE POURED AROUND THE BASE, A ZUMAR HDA20 HEAVY DUTY 30" SIGN ANCHOR MUST BE USED. THE TOP OF THE BASE MUST BE TAPED OFF TO PREVENT CONCRETE FROM FILLING BASE WHILE POURING CONCRETE.

PART	TUBE SIZE	MIN. WALL THICKNESS	LENGTH
BASE POST	2.25" x 2.25"	12 GAGE	36 INCH
SIGN POST	2" x 2"	12 GAGE	10' or 12' AS REQ'D.

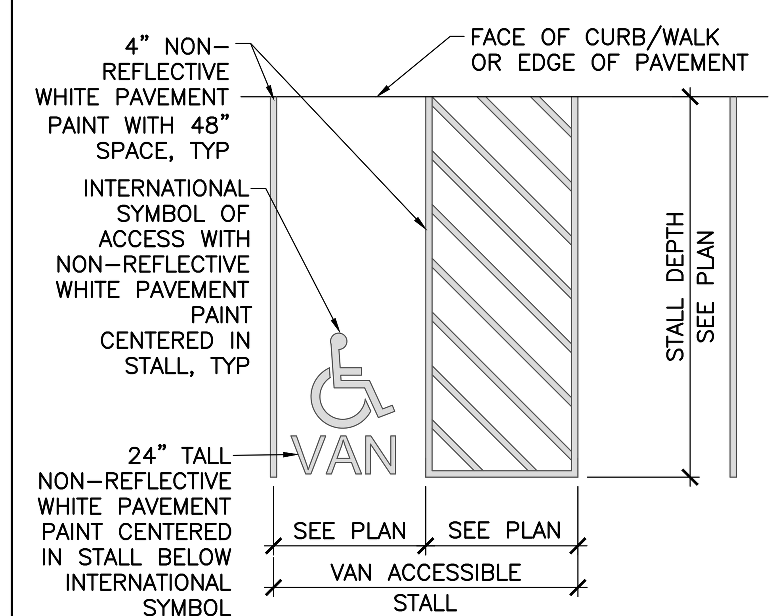
B1 ACCESSIBLE SIGN
SCALE: 1" = 1'-0" REF: C2.01



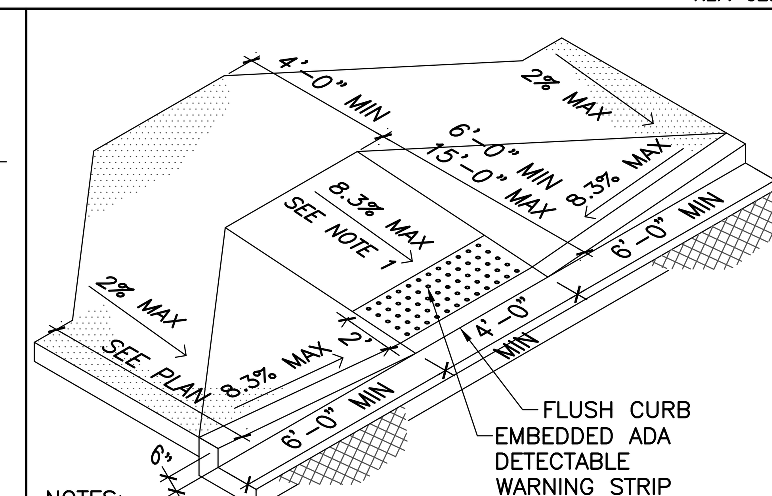
B2 ACCESSIBLE AISLE SIGN
SCALE: 1" = 1'-0" REF: C2.01



B3 ACCESSIBLE PARKING
SCALE: 1/8" = 1'-0" REF: C2.01

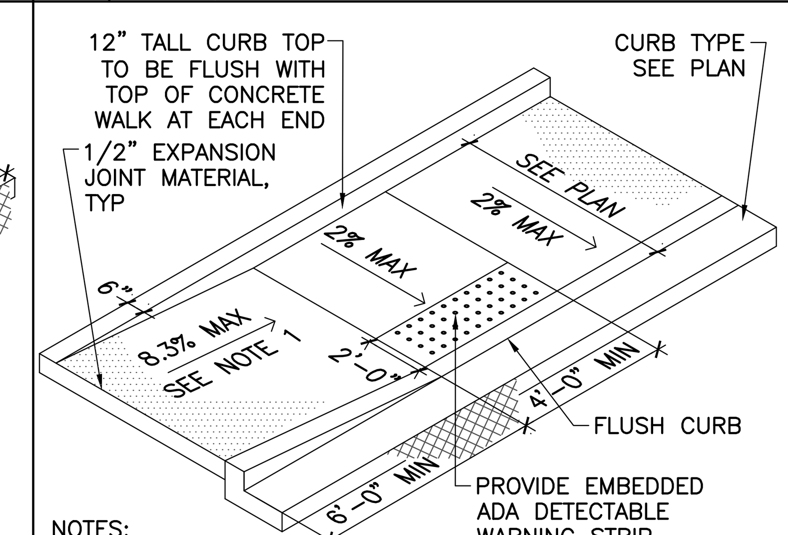


B4 ACCESSIBLE RAMP
SCALE: 1/4" = 1'-0" REF: C2.01



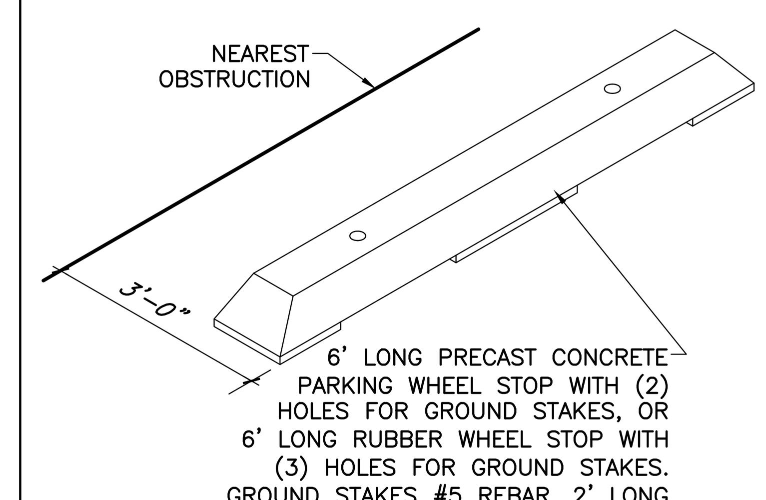
NOTES:
1. THE CURB RAMP RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET. WHEN APPLYING THE 15 FEET MAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE.
2. CROSS SLOPE NOT TO EXCEED 2%.

B5 ACCESSIBLE RAMP WING
SCALE: 1/4" = 1'-0" REF: C2.01

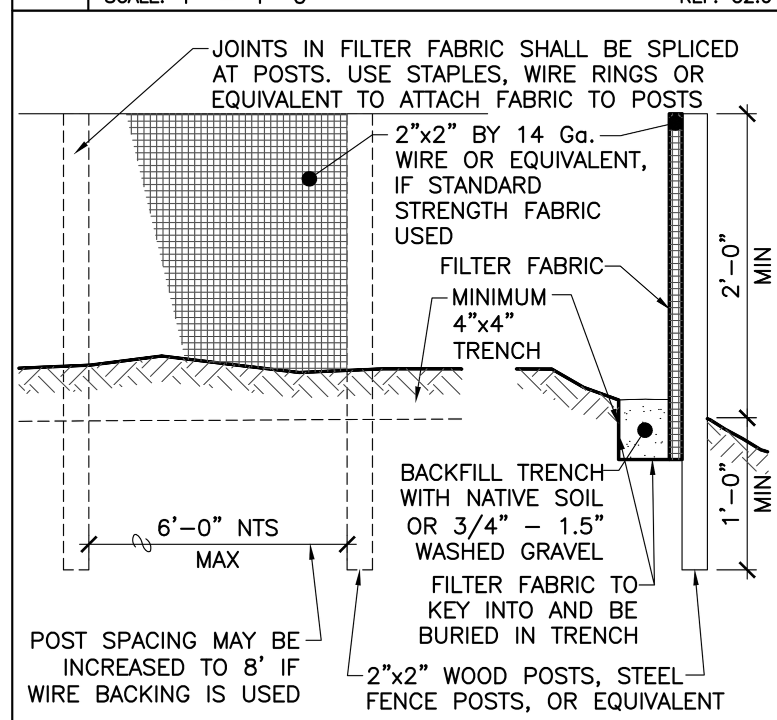


NOTES:
1. THE CURB RAMP RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET. WHEN APPLYING THE 15 FEET MAXIMUM LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE.
2. CROSS SLOPE NOT TO EXCEED 2%.

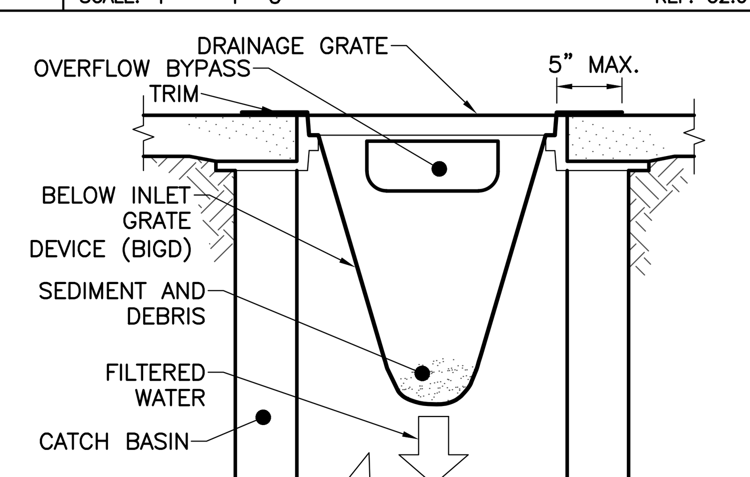
B6 WHEEL STOP
SCALE: 1/2" = 1'-0" REF: C2.01



A1 SILT FENCE
SCALE: 1" = 1'-0" REF: C0.05

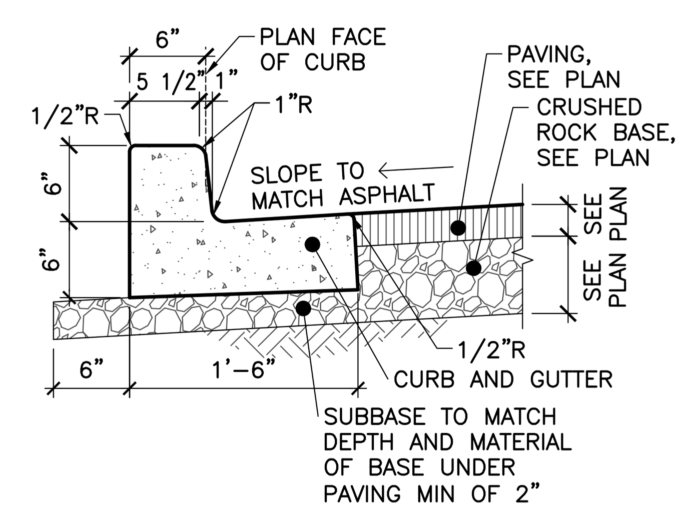


A2 INLET PROTECTION
SCALE: 1" = 1'-0" REF: C0.05



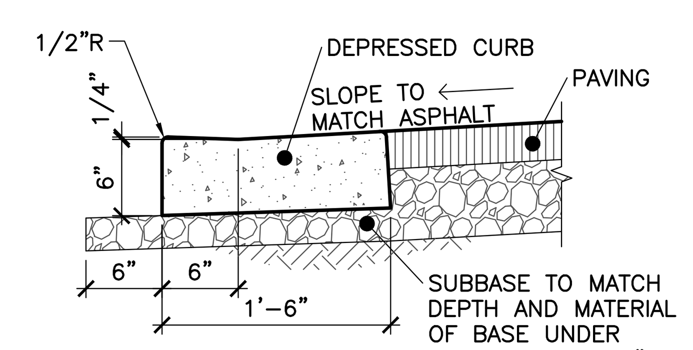
NOTES:
1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORMWATER STRUCTURE IT WILL SERVE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8.01.3.

A3 CURB AND GUTTER
SCALE: 1" = 1'-0" REF: C2.01



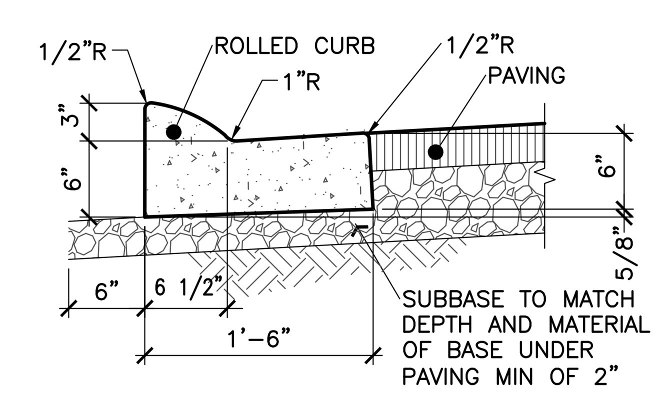
NOTE: INSTALL DUMMY JOINTS AT 5'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" C/C AND AT TERMINATIONS AGAINST CURB OR SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE ARCHITECTURAL SITE PLAN FOR FINISH REQUIREMENTS.

A4 DROP CURB AND GUTTER
SCALE: 1" = 1'-0" REF: C2.01



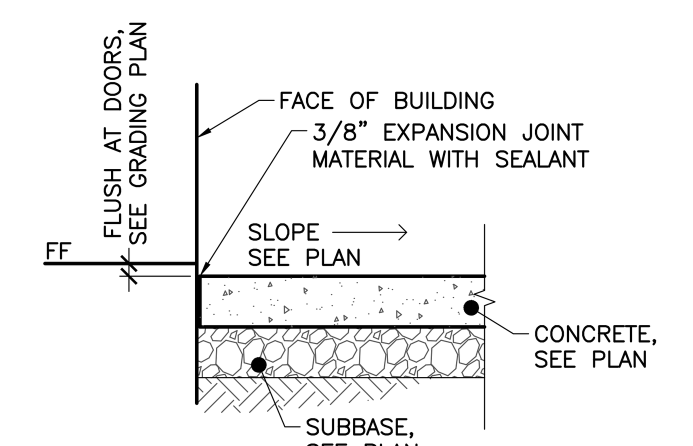
NOTES: INSTALL DUMMY JOINTS AT 10'-0" C/C, AND 1/2" EXPANSION JOINTS AT 30'-0" AND AT START AND END OF CURVES.

A5 ROLLED CURB AND GUTTER
SCALE: 1" = 1'-0" REF: C2.01



INSTALL DUMMY JOINTS AT 10'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" AND AT START AND END OF CURVES.

A6 CONCRETE JOINT AT BLDG
SCALE: 1" = 1'-0" REF: C2.01



NOTE: INSTALL DUMMY JOINTS AT 5'-0" C/C AND 1/2" EXPANSION JOINTS AT 30'-0" C/C AND AT TERMINATIONS AGAINST CURB OR SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE ARCHITECTURAL SITE PLAN FOR FINISH REQUIREMENTS.

DESIGN WEST ARCHITECTS, P.A.
• MERIDIAN, IDAHO • PULLMAN, WASHINGTON •
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DRAWN BY: SJT
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JOB NUMBER: 23053/23109
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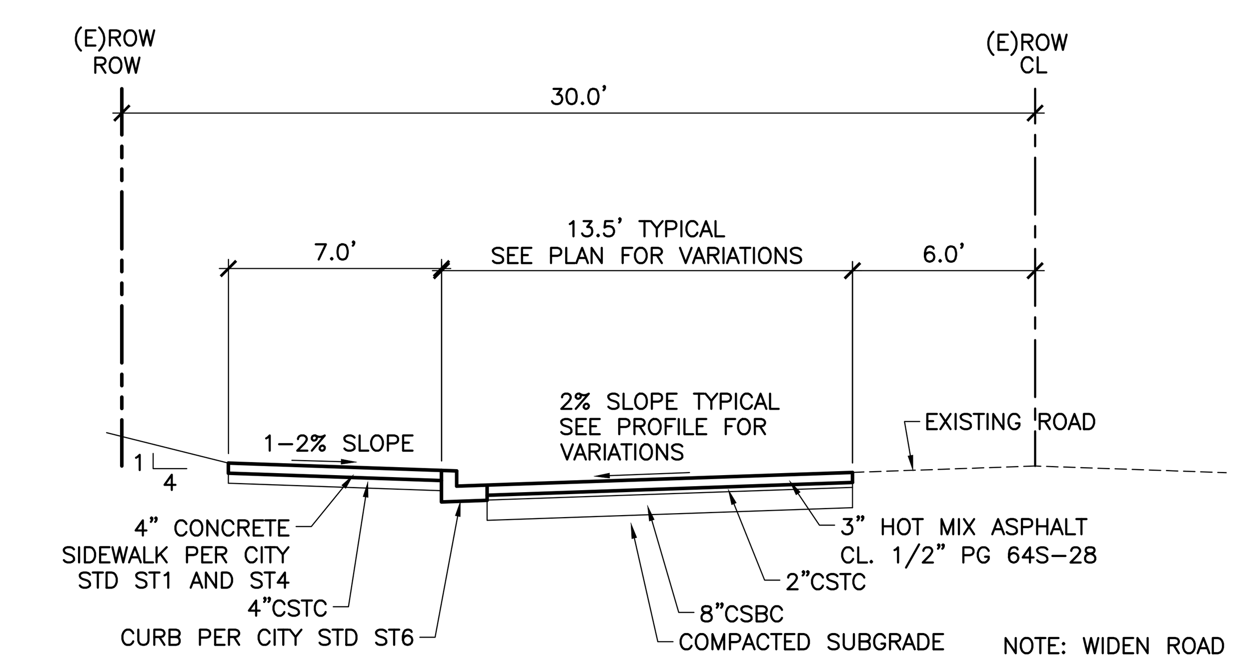
KNUTZEN ENGINEERING, KENNEWICK, WA
CADFILE: 23109C001

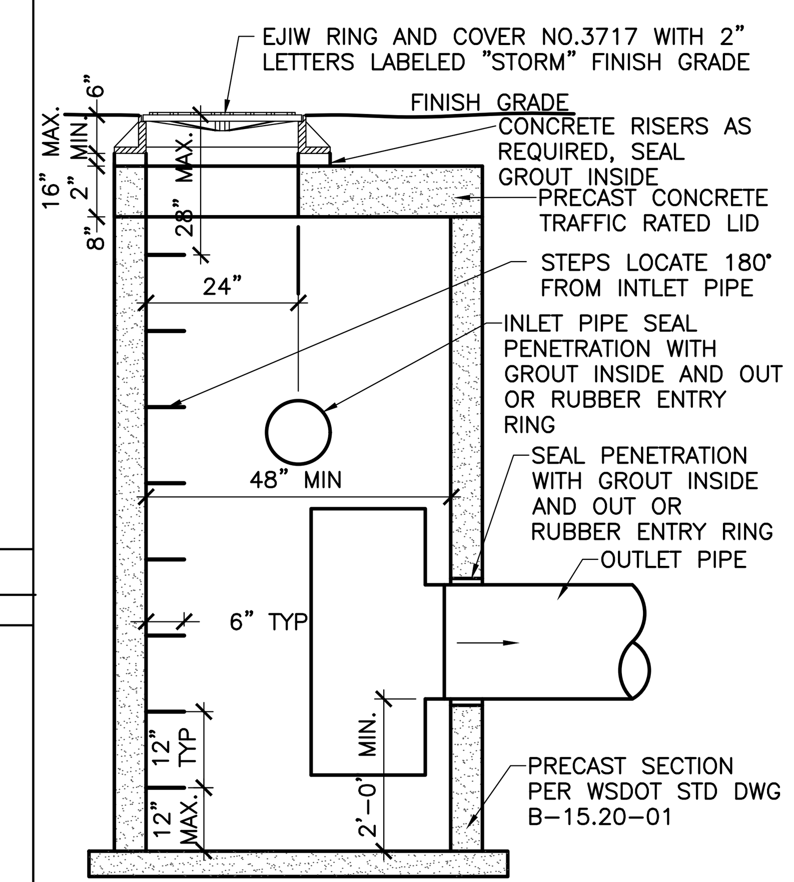
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: **12/18/2023**
SHEET NAME: **SECTIONS AND DETAILS**
SHEET: **C5.01**

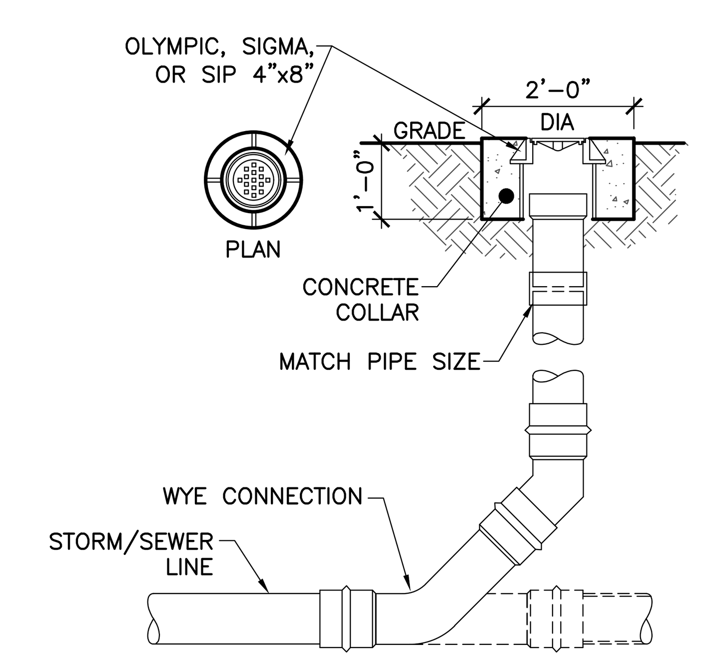


NOTE: WIDEN ROAD PER CITY STD ST–2C "COLLECTOR"
SEE SHEETS C6.01–C605 FOR MORE INFORMATION.

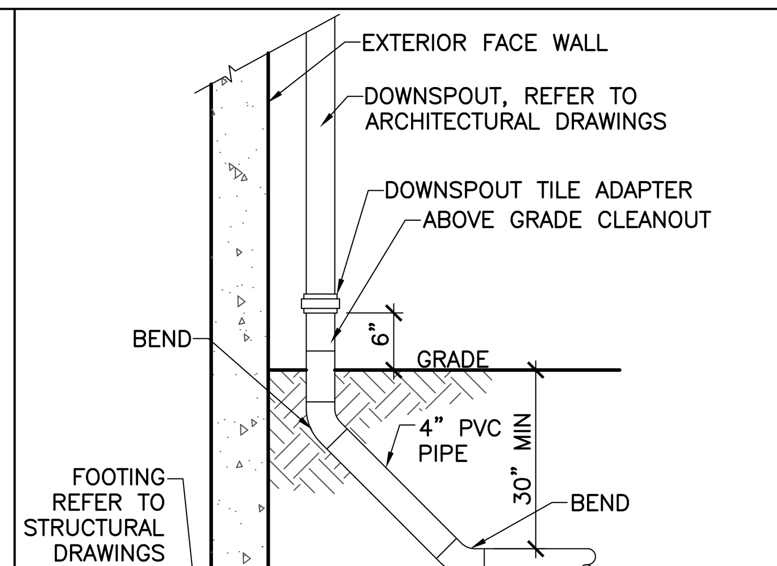
D1 ROAD SECTION
SCALE: 1" = 5'–0"



NOTES:
1. A RUBBER RING ENTRY COUPLING SHALL BE USED WITH P.V.C. PIPE OR GROUT PENETRATION INSIDE AND OUT.
2. ALL MANHOLE JOINTS SHALL BE MADE USING A CONTINUOUS FLEXIBLE RUBBER MANHOLE GASKET, OR FULL BED GROUT JOINT.
3. ADJUSTMENTS OVER 2" UTILIZE PRECAST CONCRETE RINGS. GROUT BETWEEN EACH RING AND FRAME AND FINISH GROUT INSIDE. REMOVE ALL WOOD SHIMS.
4. WHERE MANHOLE IS LOCATED OUTSIDE OF PAVED AREAS PROVIDE A 42"x42"x8" THICK CONCRETE COLLAR AROUND AND LEVEL WITH THE LID.

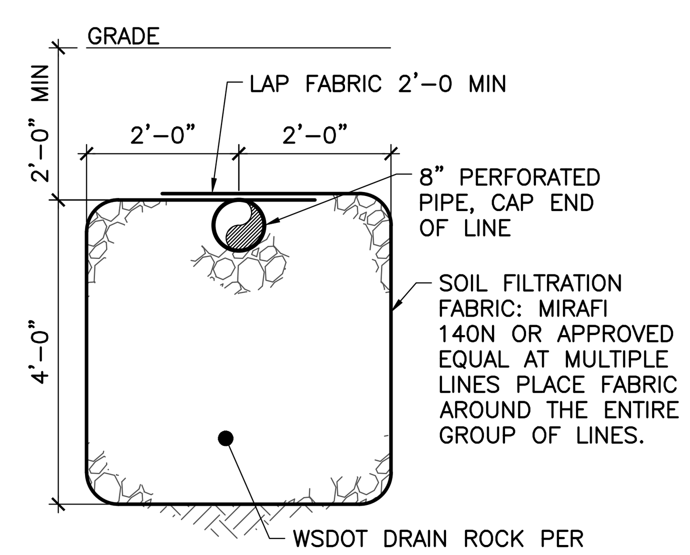


B1 CLEAN OUT TO GRADE
SCALE: 1/2" = 1'–0" REF: C4.01



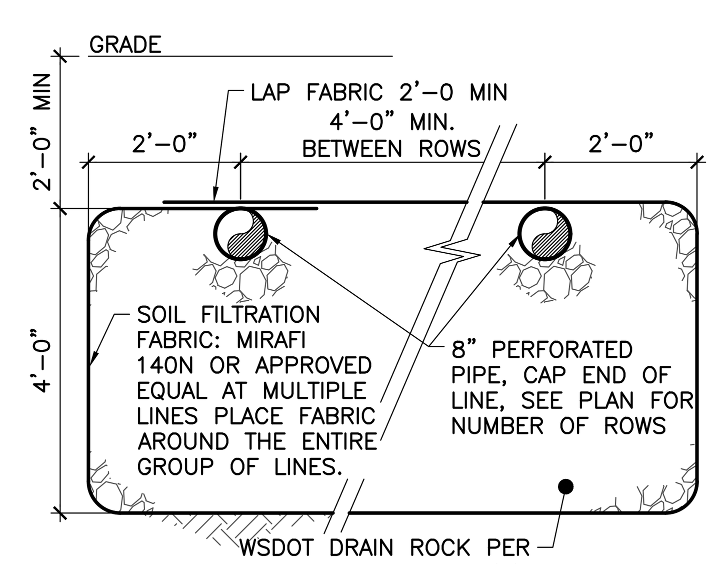
NOTE:
1. PAINT EXPOSED PIPE AND COUPLINGS TO MATCH BUILDING COLOR.
2. REFER TO ELECTRICAL FOR HEAT TRACE REQUIREMENTS.

B2 DOWN SPOUT CONNECTION
SCALE: 3/4" = 1'–0" REF: C4.01



NOTE: INCREASE STORM DRAIN INLET PIPE WITH ECCENTRIC REDUCERS AS REQUIRED.

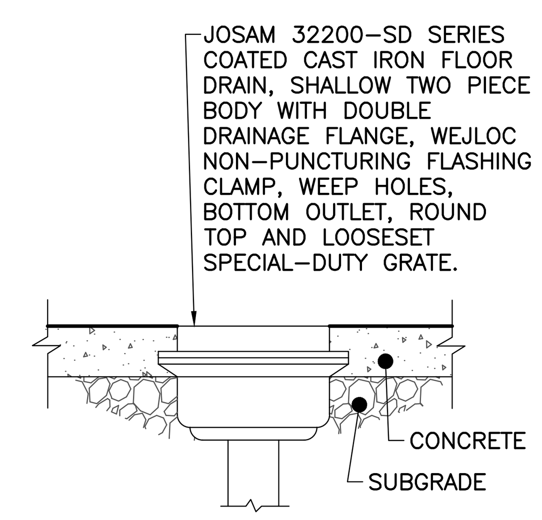
B3 PERFORATED DRAIN PIPE
SCALE: 1/2" = 1'–0" REF: C4.01



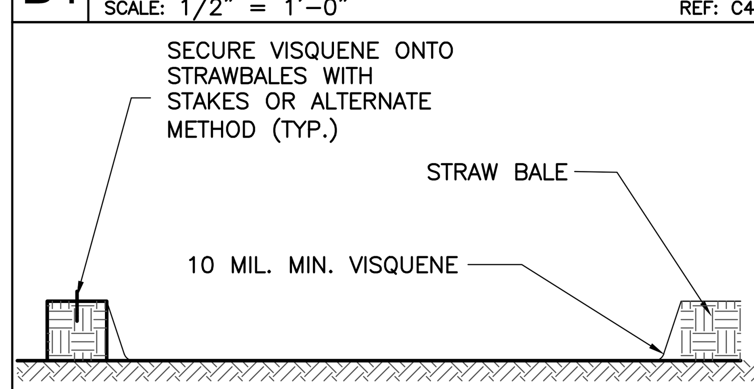
NOTE: INCREASE STORM DRAIN INLET PIPE WITH ECCENTRIC REDUCERS AS REQUIRED.

B4 PERFORATED DRAIN PIPES
SCALE: 1/2" = 1'–0" REF: C4.01

B5 TYPE II CATCH BASIN
SCALE: 1/2" = 1'–0" REF: C4.01

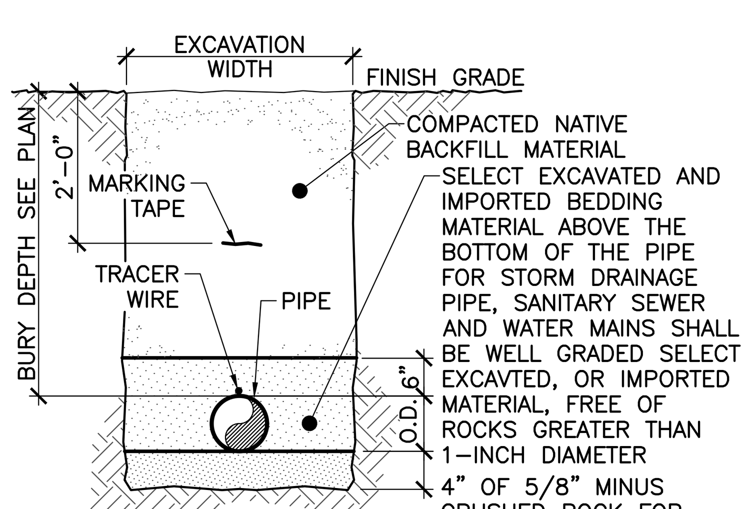


B6 AREA DRAIN
SCALE: 1" = 1'–0" REF: C4.01



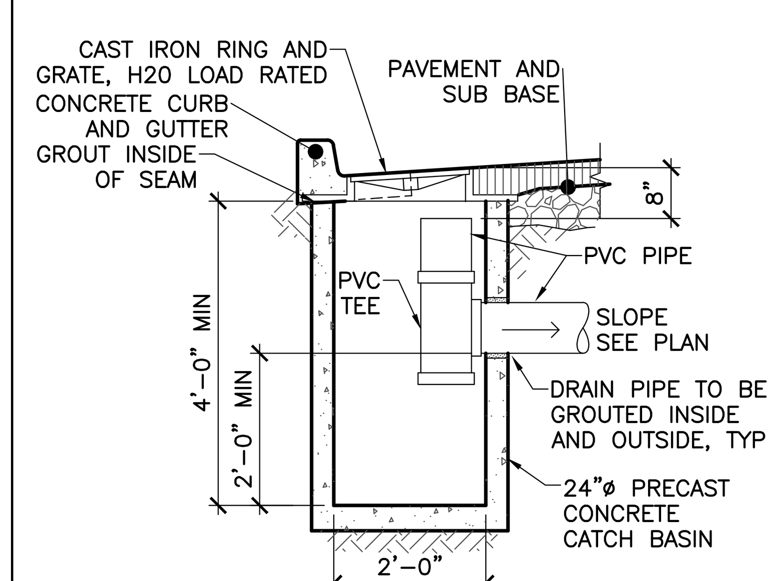
NOTES:
1. ALL CONCRETE TRUCKS AND FINISHING TOOLS SHALL BE WASHED AT THE WASH OFF AREA.
2. ALL CONCRETE WASTE COLLECTED IN WASH OFF AREA SHALL BE RECYCLED OR APPROPRIATELY DISPOSED OF OFF–SITE.
3. LOCATION AND SIZE OF WASH–OFF AREA MAY BE ADJUSTED TO ACCOMMODATE SITE CONDITIONS.

A1 WASH OUT
SCALE: 1" = 1'–0" REF: C0.05

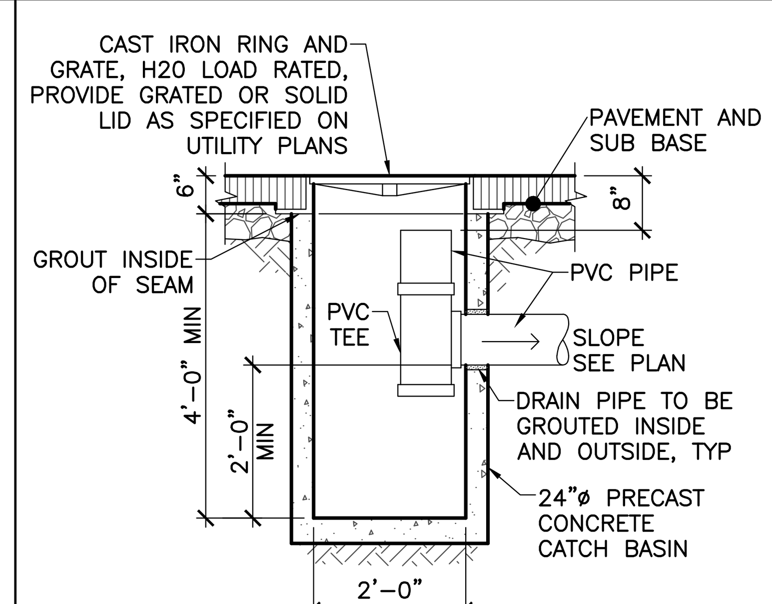


NOTE:
COMPACT BEDDING MATERIAL TO 95% MAXIMUM DENSITY PER ASTM D1557 EXCEPT DIRECTLY OVER THE PIPE, WHERE BEDDING MATERIAL SHALL BE HAND TAMPED ONLY.

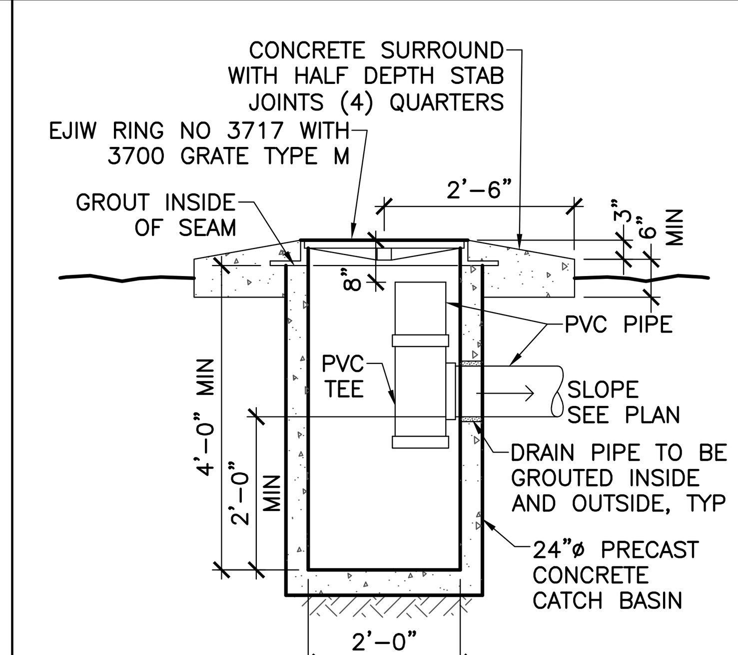
A2 PIPE TRENCH
SCALE: 1/2" = 1'–0" REF: C4.01



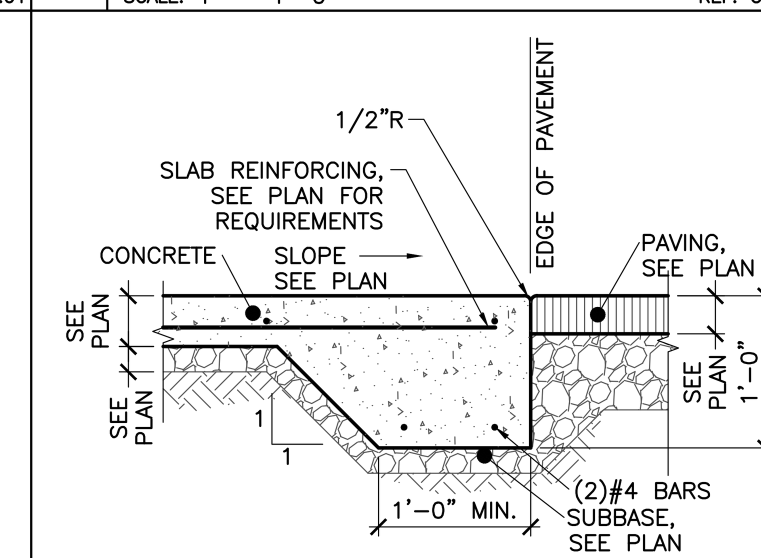
A3 CATCH BASIN IN CURB
SCALE: 1/2" = 1'–0" REF: C4.01



A4 FLUSH CATCH BASIN
SCALE: 1/2" = 1'–0" REF: C4.01



A5 CATCH BASIN IN LS/LAWN
SCALE: 1/2" = 1'–0" REF: C4.01



NOTE: INSTALL DUMMY JOINTS AT 5'–0" C/C AND 1/2" EXPANSION JOINTS AT 30'–0" C/C AND AT TERMINATIONS AGAINST CURB OR SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE ARCHITECTURAL SITE PLAN FOR FINISH REQUIREMENTS.

A6 HEAVY CONCRETE EDGE
SCALE: 1" = 1'–0" REF: C2.01

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REVISIONS

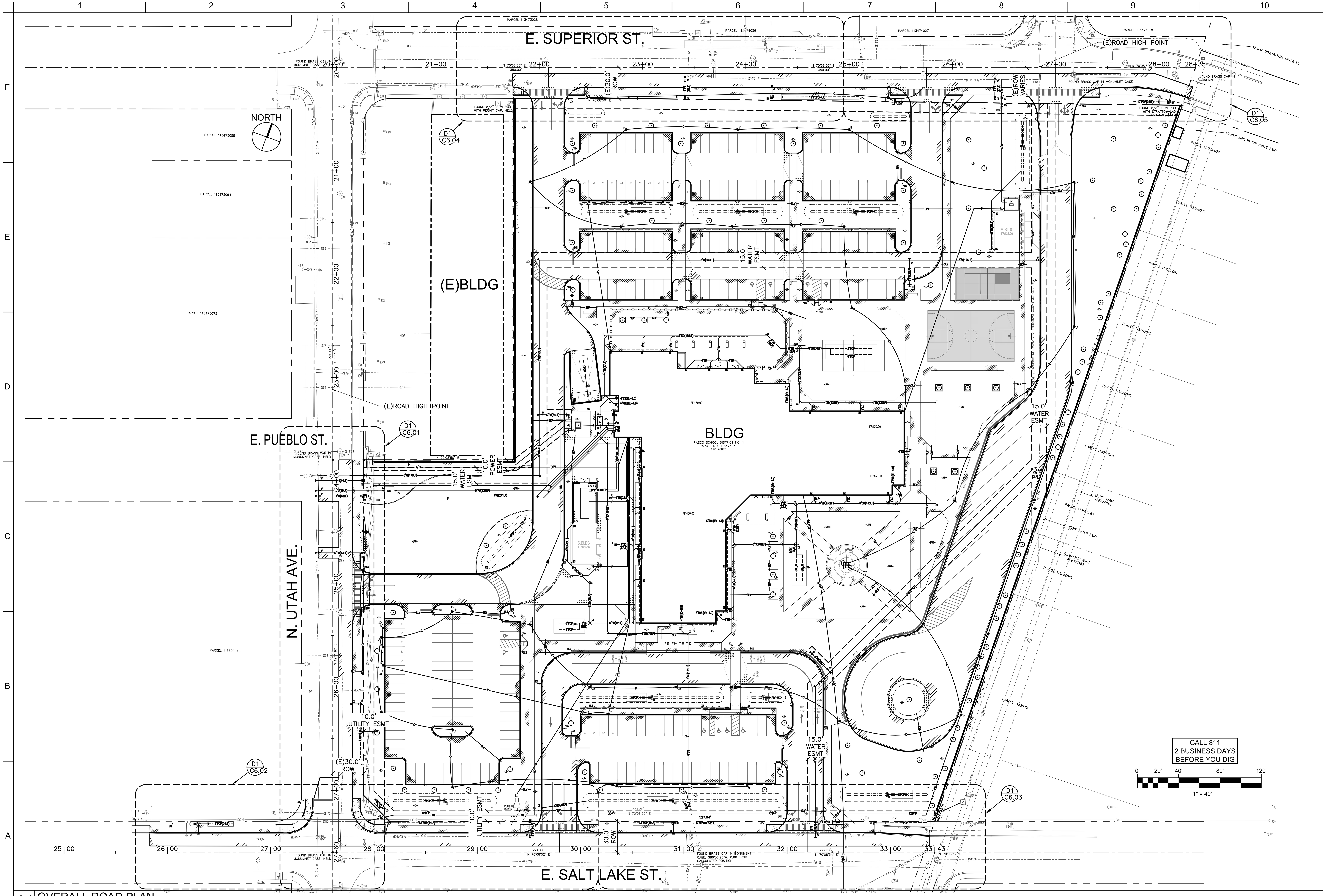
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SECTIONS AND DETAILS

SHEET
C5.02



A1 OVERALL ROAD PLAN
SCALE: 1" = 40'-0"

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12/18/23

KNUTZEN ENGINEERING
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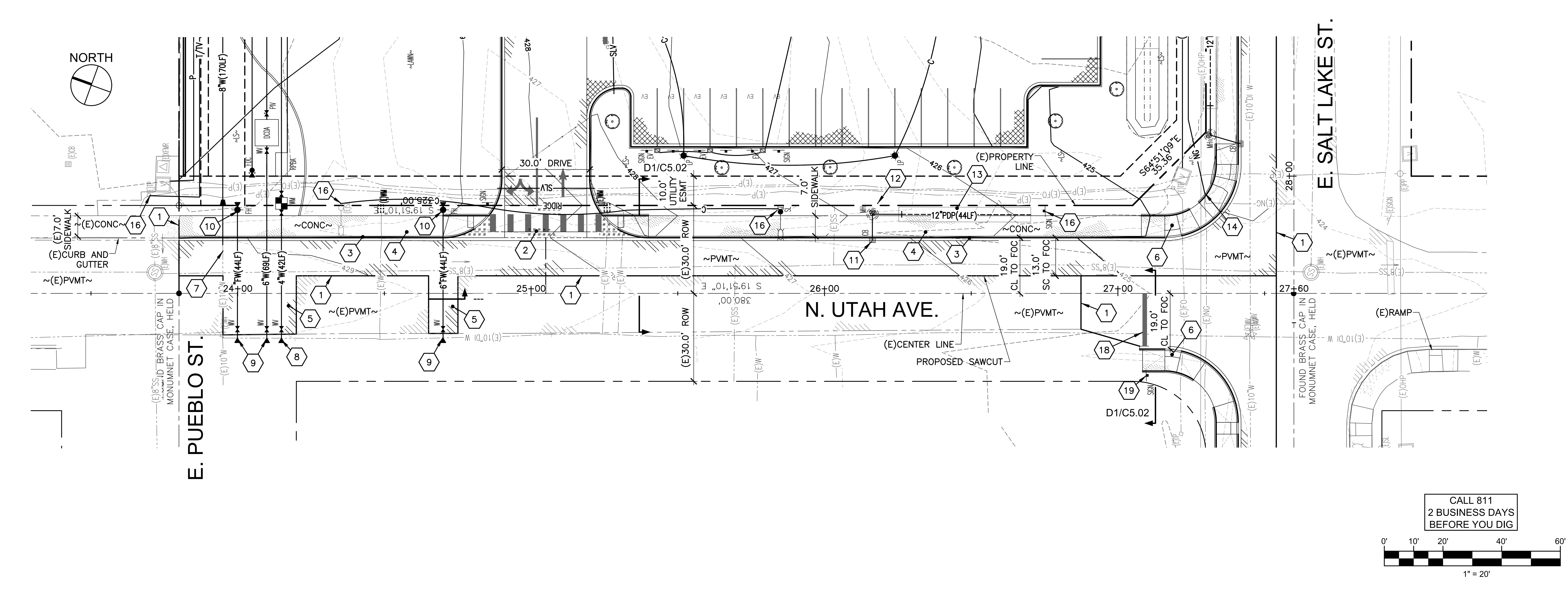
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

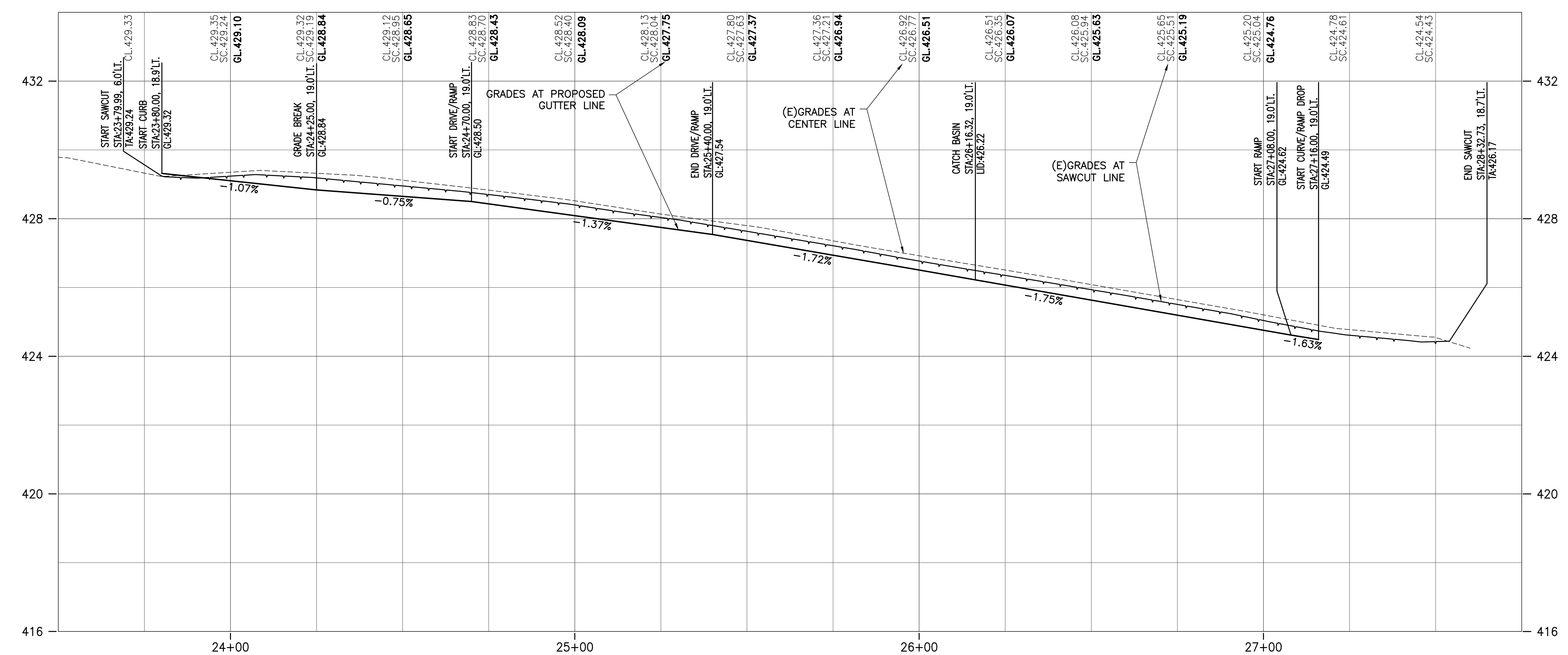
SHEET NAME
OVERALL ROAD PLAN

SHEET
C6.00



D1 ROAD PLAN

SCALE: 1" = 20'-0"



A1 ROAD PROFILE

SCALE: HORZ 1" = 20'-0" VERT 1" = 2'-0"

KEY NOTES

1. MEET AND MATCH EXISTING
2. COMMERCIAL DRIVEWAY ENTRANCE PER CITY STD DWG ST-5
3. CURB AND GUTTER, PER CITY STD DETAIL ST-6
4. SIDEWALK, PER CITY STD DETAIL ST-4
5. WIDEN ROAD, PER CITY STD DETAIL ST-2C
6. ACCESSIBLE RAMP, PER CITY STD DETAIL ST-10
7. TIE INTO EXISTING 10" WATER MAIN AND EXTEND TO PROPERTY LINE FOR ON SITE CONNECTION
8. CUT IN 10"x4" TEE WITH 4" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-1, W-4 AND W-8
9. CUT IN 10"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-1, W-4 AND W-8
10. FIRE HYDRANT WITH CURB PROTECTION, PER CITY STD DETAILS W-10 AND W-12
11. CATCH BASIN IN CURB, PER CITY STD DETAIL SD-1
12. STORM MANHOLE, PER CITY STD DETAIL SD-2
13. 5.0'Wx45.0'Lx5.0'DEEP ROCK POCKET, WITH 44 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3
14. CONNECT TO EXISTING NATURAL GAS LINE AT SOUTHWEST CORNER OF PROPERTY, FIELD VERIFY LOCATION, COORDINATE WITH CASCADE NATURAL GAS, CONTRACTOR TO PROVIDE TRENCH AND BACKFILL TO GRADE FOR GAS LINE UP TO BUILDING GAS METER PER CASCADE NATURAL GAS SPECIFICATIONS
15. TRENCH AND INSTALL CONDUIT AND VAULTS FOR UTILITY SERVICE, COORDINATE WITH POWER COMPANY
16. STREET LIGHT AND CONDUIT TIED INTO EXISTING STREET LIGHT CIRCUIT
17. RELOCATED SIGN ON NEW POLE AND BASE
18. "STOP" SIGN, PER MUTCD R1-1, SEE DETAIL C3/C5.01
19. PAINT 18" WIDE WHITE STOP BAR, PER WSDOT M-15.10-01 AND M-24.60

NOTES

1. SEE SHEET C0.01 FOR GENERAL NOTES AND LEGEND.
2. SEE SHEET C0.03 FOR SURVEY INFORMATION.
3. SEE SHEET C1.00 FOR EROSION CONTROL AND CONSTRUCTION STAGING INFORMATION.
4. SEE SHEET C1.00 FOR DEMOLITION INFORMATION.
5. DIMENSIONS ARE TO FACE OF CURB, UNLESS NOTED OTHERWISE. FIELD VERIFY ALL MEASUREMENTS AND INVERTS PRIOR TO START OF WORK.
6. A SEALED EXPANSION JOINT MATERIAL SHALL BE USED AT JOINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE (TYP).
7. SEE SHEET C5.02 FOR ROAD SECTIONS.
8. ALL UNDERGROUND UTILITIES ON THE SITE MAY NOT BE SHOWN. FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES. COORDINATE ALL RELOCATION WORK WITH THE APPROPRIATE UTILITY COMPANY AND/OR OWNER PRIOR TO ANY EXCAVATION WORK.
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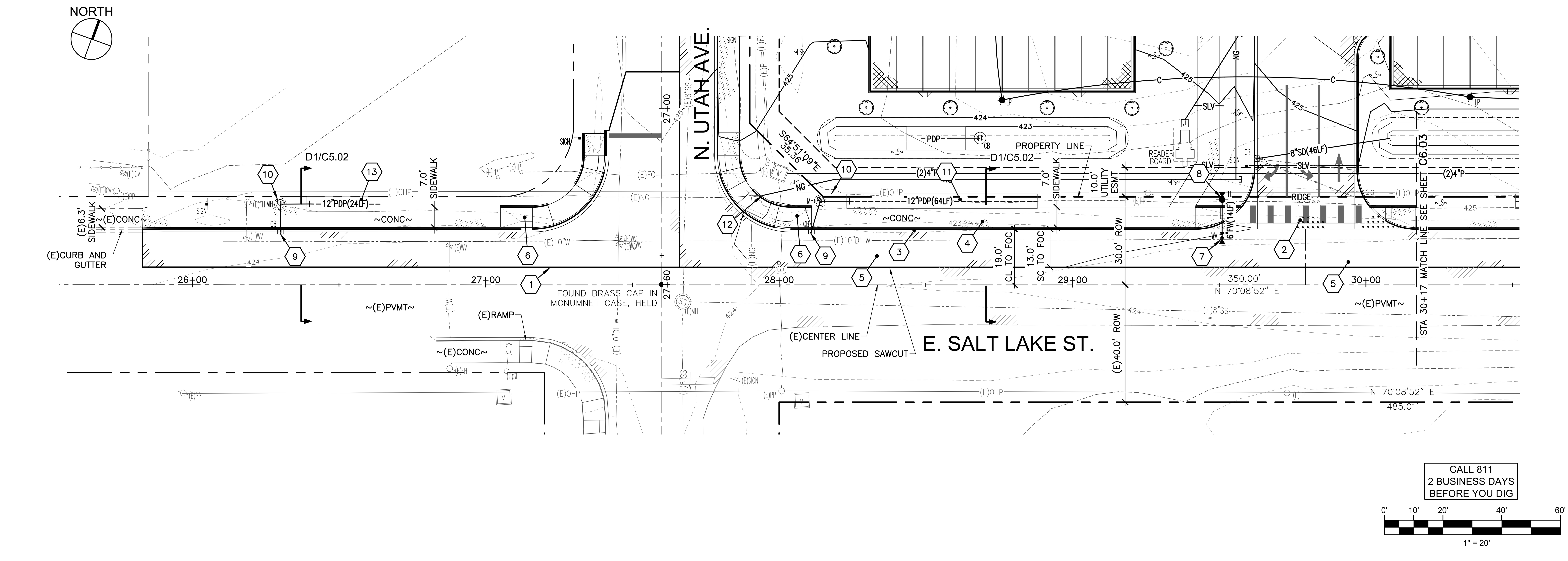
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

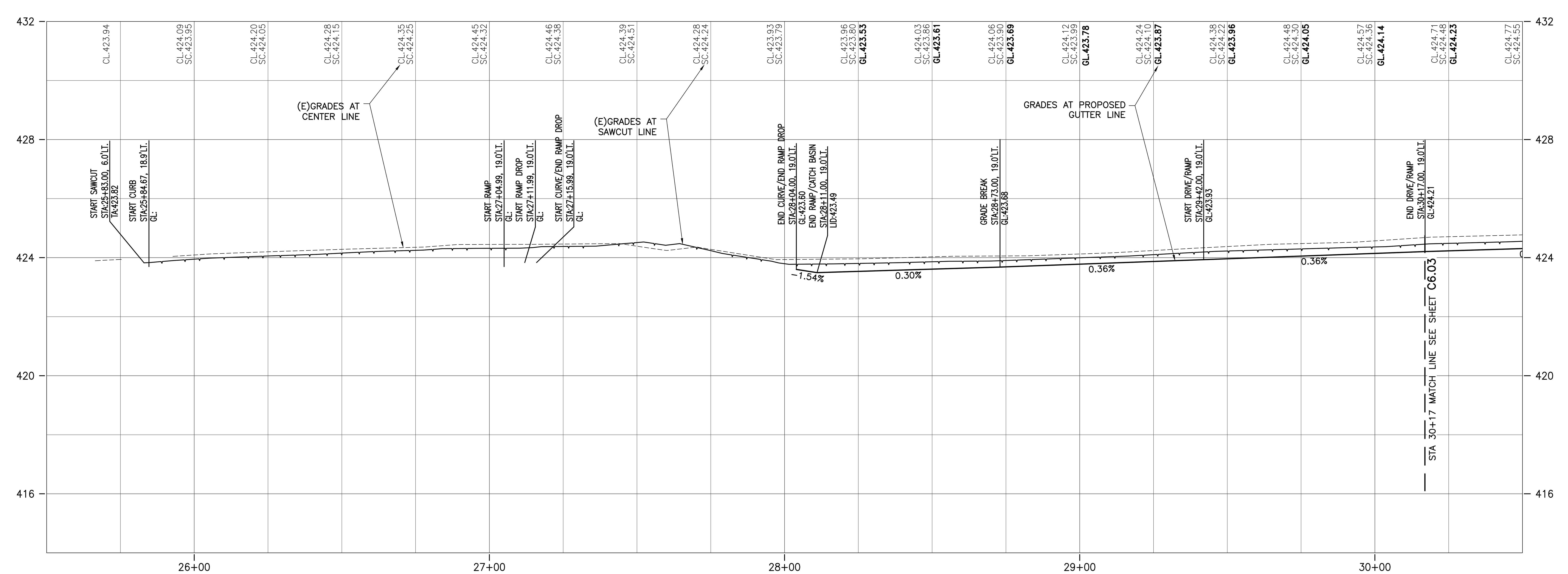
DATE: **12/18/2023**

SHEET NAME: **ROAD PLAN AND PROFILE**

SHEET: **C6.01**



D1 ROAD PLAN
SCALE: 1" = 20'-0"



A1 ROAD PROFILE
SCALE: HORZ 1" = 20'-0" VERT 1" = 2'-0"

KEY NOTES

1. MEET AND MATCH EXISTING
2. COMMERCIAL DRIVEWAY ENTRANCE PER CITY STD DWG ST-5
3. CURB AND GUTTER, PER CITY STD DETAIL ST-6
4. SIDEWALK, PER CITY STD DETAIL ST-4
5. WIDEN ROAD, PER CITY STD DETAIL ST-2C
6. ACCESSIBLE RAMP, PER CITY STD DETAIL ST-10
7. CUT IN 10"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-1, W-4 AND W-8
8. FIRE HYDRANT WITH CURB PROTECTION, PER CITY STD DETAILS W10 AND W12
9. CATCH BASIN IN CURB, PER CITY STD DETAIL SD-1
10. STORM MANHOLE, PER CITY STD DETAIL SD-2
11. 5.0'Wx65.0'Lx5.0'DEEP ROCK POCKET, WITH 64 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3
12. CONNECT TO EXISTING NATURAL GAS LINE AT SOUTHWEST CORNER OF PROPERTY, FIELD VERIFY LOCATION, COORDINATE WITH CASCADE NATURAL GAS, CONTRACTOR TO PROVIDE TRENCH AND BACKFILL TO GRADE FOR GAS LINE UP TO BUILDING GAS METER PER CASCADE NATURAL GAS SPECIFICATIONS
13. 5.0'Wx25.0'Lx5.0'DEEP ROCK POCKET, WITH 24 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3

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12/18/23

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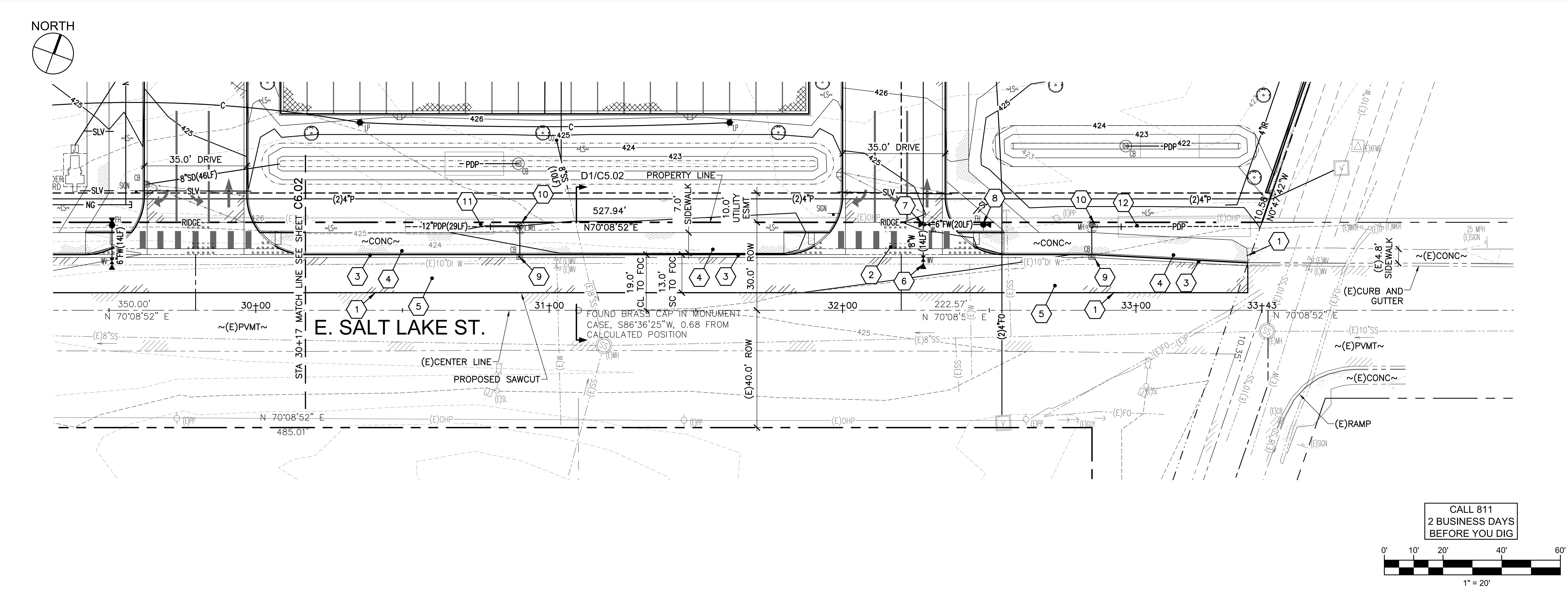
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
ROAD PLAN AND PROFILE

SHEET
C6.02



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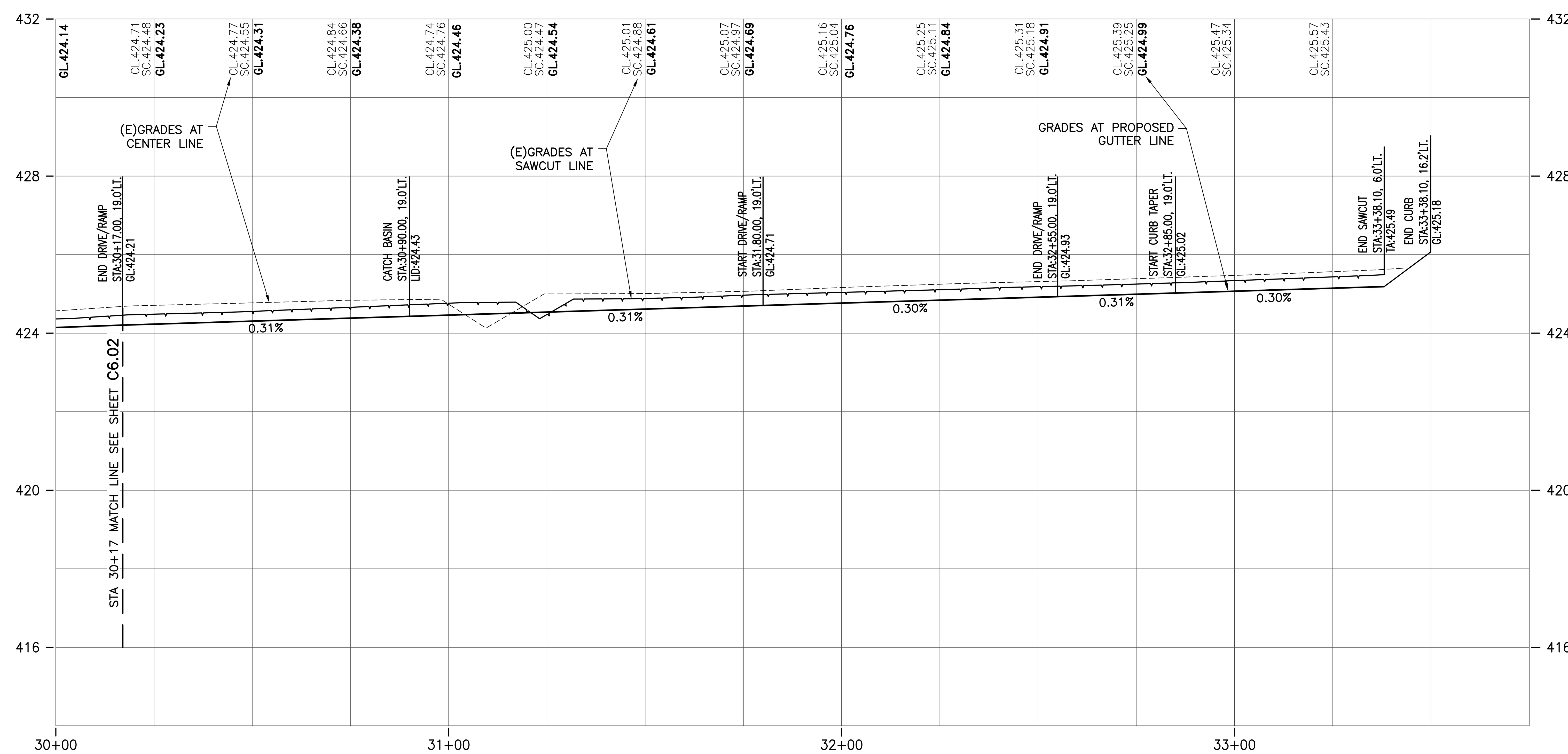

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4. SIDEWALK, PER CITY STD DETAIL ST-4
5. WIDEN ROAD, PER CITY STD DETAIL ST-2C
6. CUT IN 10"x8" TEE WITH 8" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-1, W-4 AND W-8
7. 8"x6" TEE WITH 6" GATE VALVE AND THRUST BLOCK, PER CITY STD DETAILS W-4 AND W-8
8. FIRE HYDRANT WITH CURB PROTECTION, PER CITY STD DETAILS W-10 AND W-12
9. CATCH BASIN IN CURB, PER CITY STD DETAIL SD-1
10. STORM MANHOLE, PER CITY STD DETAIL SD-2
11. 5.0'Wx30.0'Lx5.0'DEEP ROCK POCKET, WITH 29 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3
12. 7.0'Wx45.0'Lx5.0'DEEP ROCK POCKET, WITH 44 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3

NOTES

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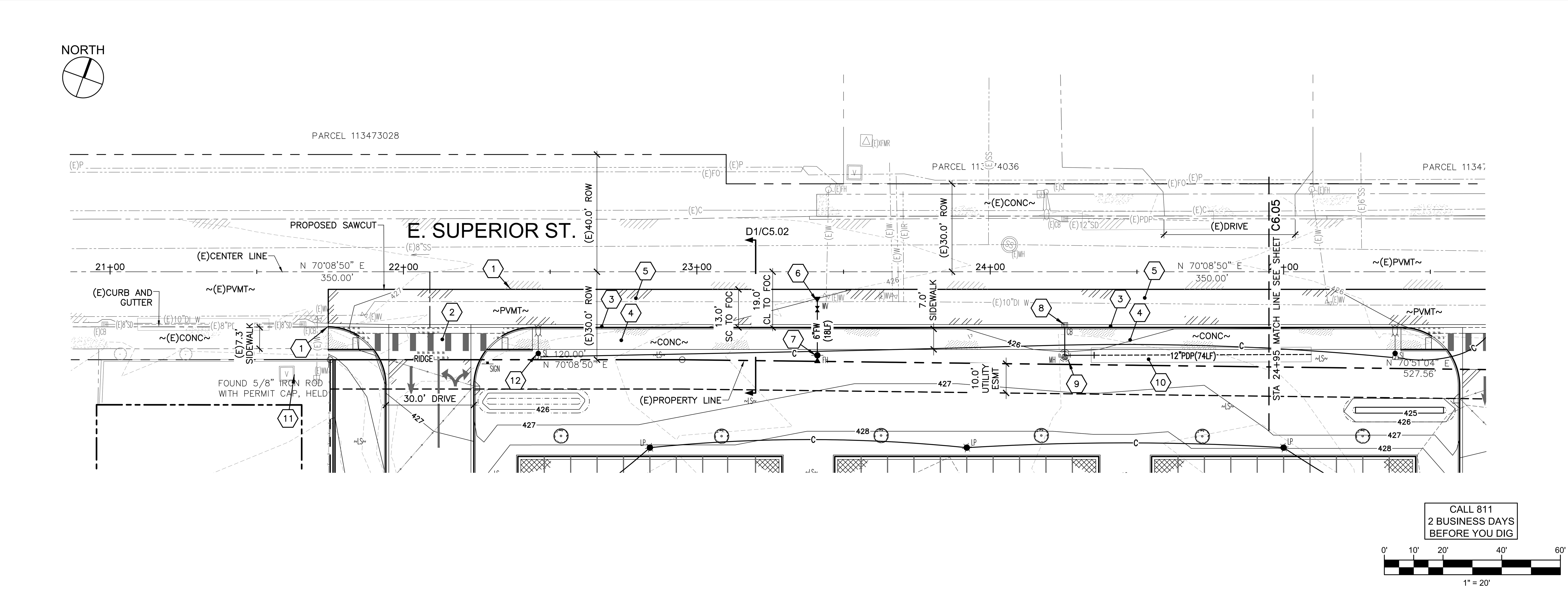
KNUTZEN ENGINEERING
CADFILE: 23109C001

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

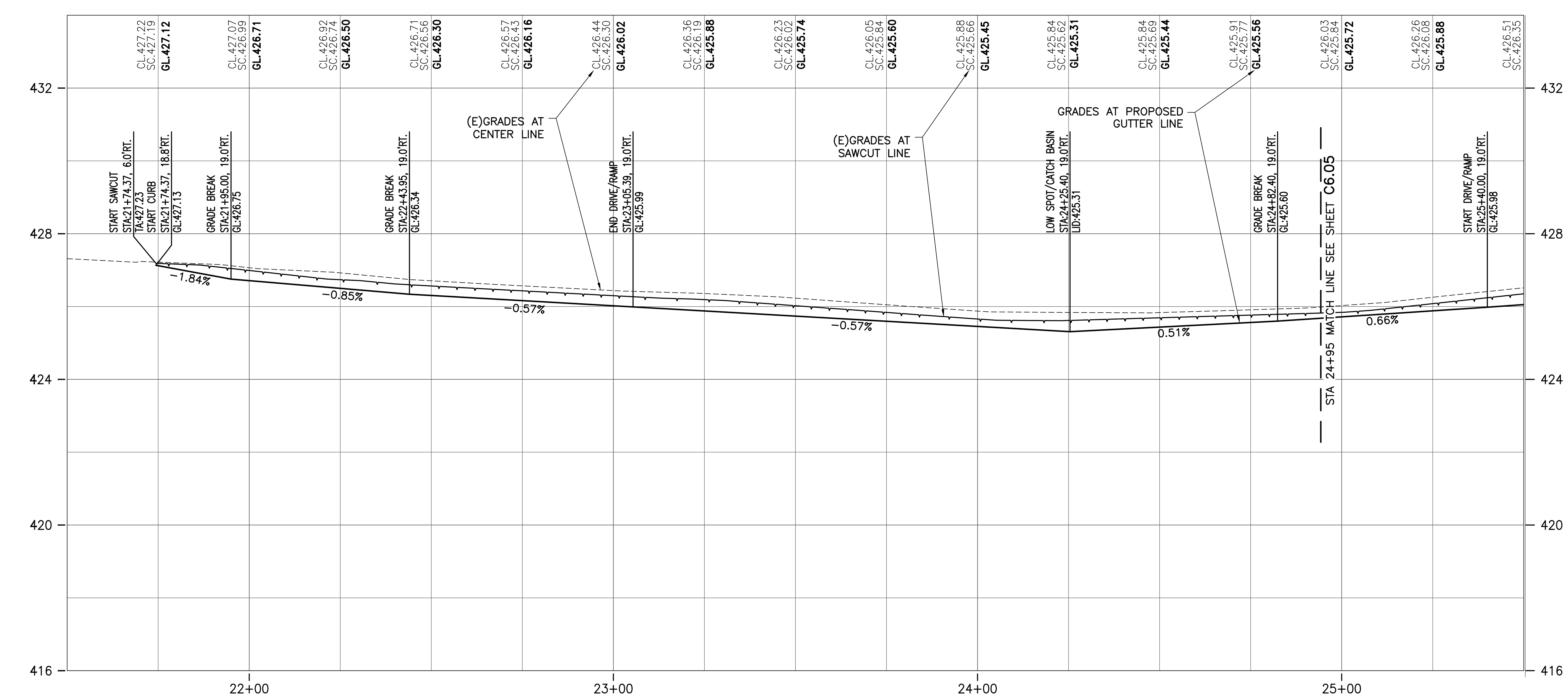
DATE: 12/18/2023

SHEET NAME: ROAD PLAN AND PROFILE

SHEET: C6.03



D1 ROAD PLAN
SCALE: 1" = 20'-0"



A1 ROAD PROFILE
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8. CATCH BASIN IN CURB, PER CITY STD DETAIL SD-1
9. STORM MANHOLE, PER CITY STD DETAIL SD-2
10. 5.0'Wx75.0'Lx5.0'DEEP ROCK POCKET, WITH 74 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3
11. TRENCH AND INSTALL CONDUIT AND VAULTS FOR UTILITY SERVICE, COORDINATE WITH POWER COMPANY
12. STREET LIGHT AND CONDUIT TIED INTO EXISTING STREET LIGHT CIRCUIT

NOTES

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PASCO SCHOOL DISTRICT
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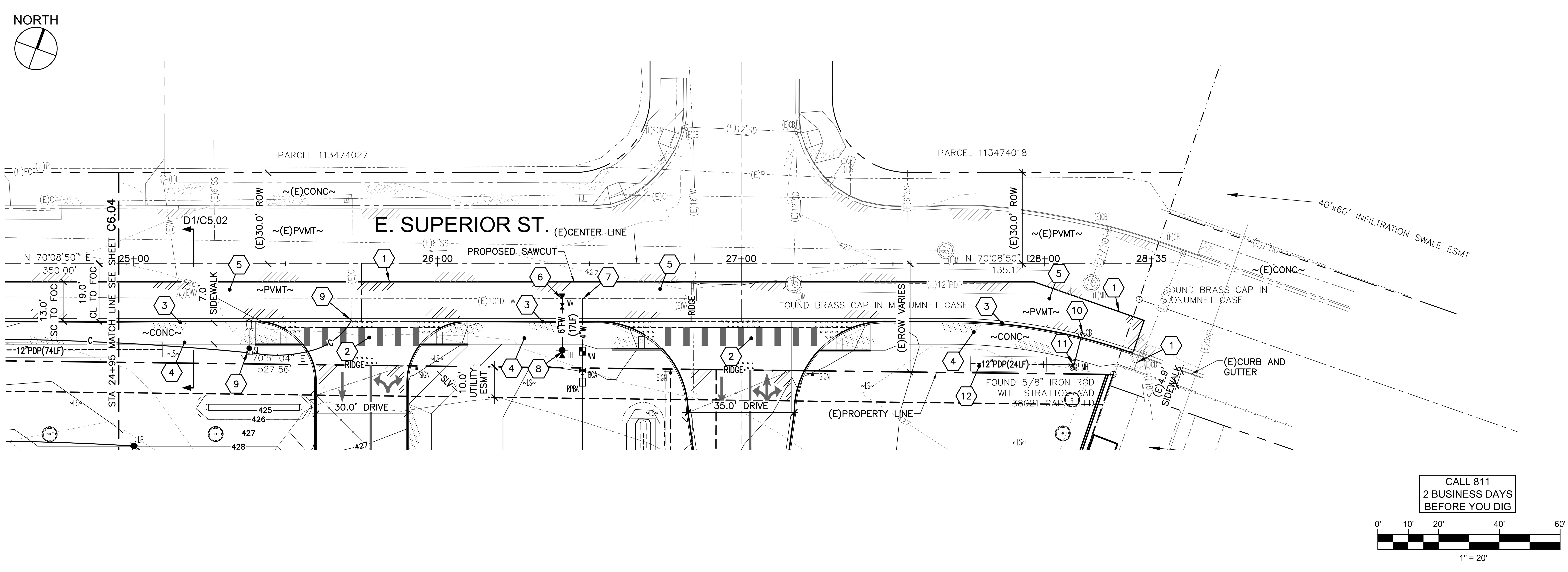
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

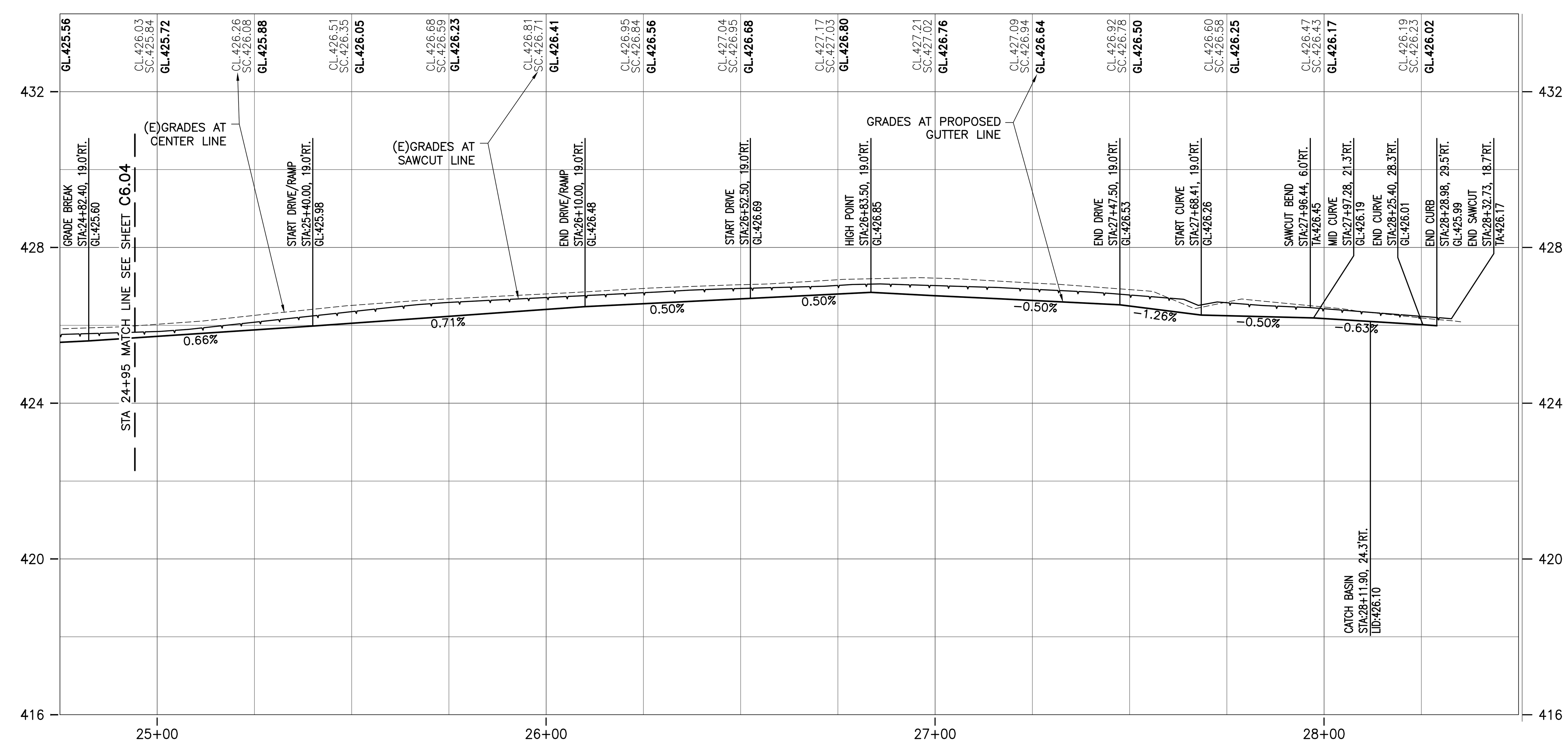
SHEET NAME
ROAD PLAN AND PROFILE

SHEET
C6.04



D1 ROAD PLAN

SCALE: 1" = 20'-0"



A1 ROAD PROFILE

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4. SIDEWALK, PER CITY STD DETAIL ST-4
5. WIDEN ROAD, PER CITY STD DETAIL ST-2C
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12. 5.0'Wx25.0'Lx5.0'DEEP ROCK POCKET, WITH 24 LF OF 12"PDP CONNECTED TO 10 LF OF 12"SD INLET, PER CITY STD DETAIL SD-3

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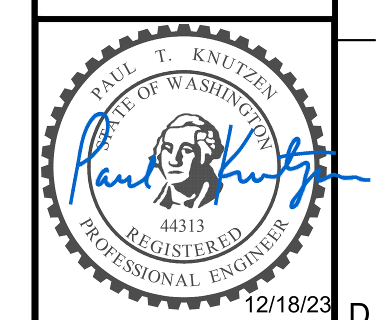

KNUTZEN ENGINEERING
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ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
ROAD PLAN AND PROFILE

SHEET
C6.05

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	PSI
5 Q H F	RAIN BIRD 1804-PRS 5 SERIES MPR	2	30
8 Q T H F	RAIN BIRD 1804-PRS 8 SERIES MPR	2	30
10 Q T H F	RAIN BIRD 1804-PRS 10 SERIES MPR	5	30
12 Q T H TQ F	RAIN BIRD 1804-PRS 12 SERIES MPR	11	30
15 Q T H TQ F	RAIN BIRD 1804-PRS 15 SERIES MPR	23	30
4 6 8 10 12 15 18	RAIN BIRD 1804-PRS ADJ	23	30
1401 1402 1404 1408	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES	10	30

SYMBOL	MANUFACTURER/MODEL	QTY	PSI
25	RAIN BIRD 5006-PL-PC-R-SS-MPR 25	15	45
30	RAIN BIRD 5006-PL-PC-R-SS-MPR 30	63	45
35	RAIN BIRD 5006-PL-PC-R-SS-MPR 35	12	45

SYMBOL	MANUFACTURER/MODEL	QTY
	RAIN BIRD XCZ-100-PRB-COM	13
	PIPE TRANSITION POINT ABOVE GRADE	63
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XB-PC	74,397 S.F.
	20PC emitters (2 assigned to each 1 GAL. plant)	
	20PC emitters (4 assigned to each 1.75" / 8' plant)	
	20PC emitters (4 assigned to each 5-6' HT. plant)	

SYMBOL	MANUFACTURER/MODEL	QTY
	RAIN BIRD PESB-PRS-D	12
	RAIN BIRD 44-LRC	8
	LANDSCAPE PRODUCTS INC. BBV	10
M	NETAFIM REED SWITCH REGISTER 2 2"	1
D	DRAIN VALVE	1
C	TORO DXI-PWM-TW	2
BP	MUNRO SIMP23053PHBP	1
	CAP FOR FUTURE USE	2
POC	POINT OF CONNECTION 2"	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	8,020 L.F.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	3,661 L.F.
	IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235 - 4"	680.2 L.F.
	PIPE SLEEVE: PVC CLASS 200 SDR 21	1,078 L.F.

Valve Callout
Valve Number
Valve Flow
#" Valve Size

GENERAL NOTES

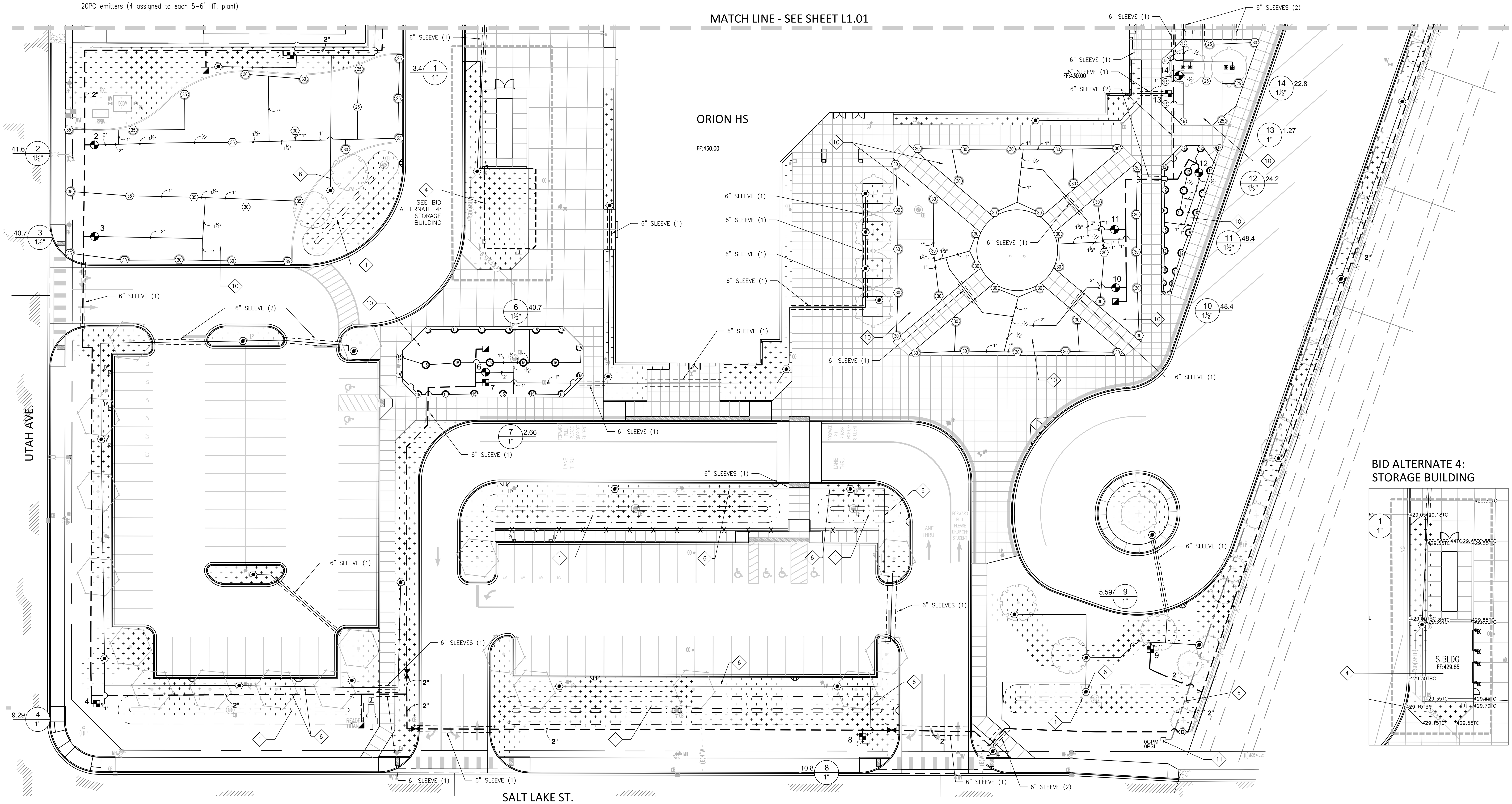
1. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES AFFECTING SYSTEM PERFORMANCE PRIOR TO BEGINNING WORK.
2. INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
3. LAYOUT OF THE SYSTEM AS SHOWN ON DRAWINGS IS DIAGRAMMATIC. IRRIGATION LINES SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. IRRIGATION HEADS AND PIPES ARE TO BE PLACED WITHIN LANDSCAPED AREAS WITH THEIR LOCATIONS MODIFIED AS REQUIRED TO AVOID PLANT MATERIALS, UTILITIES AND OTHER OBSTRUCTIONS. PLACE LINES IN COMMON TRENCHES WHERE POSSIBLE.
4. COORDINATE ALL IRRIGATION WORK WITH OTHER TRADES INVOLVED.
5. ALL VALVE BOXES WILL BE PLACED IN A MANNER WHICH FACILITATES ACCESS FOR MAINTENANCE. LOCATE VALVE BOXES IN SHRUB AND GROUNDCOVER BEDS WHEREVER POSSIBLE. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY.
6. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND ELIMINATE OVERSPRAY ONTO BUILDINGS, ROADS, AND PATHS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM.
7. STATIC PRESSURE AT THE P.O.C. AT APPROXIMATELY 34 P.S.I. CONTRACTOR SHALL VERIFY PRIOR TO COMMENCING WORK. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION. THE IRRIGATION WILL REQUIRE THE USE OF A BOOSTER PUMP TO BOOST THE PRESSURE TO 90 PSI.
8. THIS SYSTEM REQUIRES A MINIMUM STATIC PRESSURE OF 90 P.S.I. AT A MAXIMUM FLOW OF 50 GPM AT POINT-OF-CONNECTION. HEAD LAYOUT AND ZONES ARE BASED ON THIS DATA AND DATA SHOWN IN IRRIGATION LEGEND. NOTIFY THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
9. IRRIGATION LATERALS ARE SIZED AT VALVE AND CONTINUING IN DIRECTION OF FLOW. REDUCTIONS IN PIPE SIZE ARE LABELED BEGINNING DOWNSTREAM OF NEAREST FITTING. ALL LATERALS ARE MINIMUM 1" OR SAME SIZE AS NEAREST UPSTREAM PIPE.
10. USE 4" POP UP SPRAY HEADS IN LAWN AREAS.
11. SEE SHEET L1.02-L1.03 FOR IRRIGATION DETAILS.

0 20 40
SCALE: 1" = 20'

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

KEY NOTES

1. WATER QUALITY FACILITY
2. NOT USED
3. BID ALTERNATE 3: MAINTENANCE BUILDING
4. BID ALTERNATE 4: STORAGE BUILDING
5. BID ALTERNATE 6: PICKLEBALL COURT
6. LATERALS TO BE LOCATED OUTSIDE OF STORM SWALE. DO NOT TRENCH ACROSS STORM SWALES FOR IRRIGATION.
7. IRRIGATION CONTROLLER LOCATED IN RM 127 (BASE BID). SEE ELECTRICAL PLANS.
8. WATER METER AND REDUCE PRESSURE BACKFLOW ASSEMBLY. SEE CIVIL PLANS
9. IRRIGATION CONTROLLER LOCATED ON INTERIOR WALL OF MAINTENANCE BUILDING IF BID ALTERNATE 3 IS ACCEPTED.
10. LAWN AREA. IF "BID ALTERNATE 8: SYNTHETIC TURF IN STUDENT LAWN AREAS" IS ACCEPTED, DELETE IRRIGATION ZONES 2, 3, 6, 10, 11, 12, 14, 16, 18, 19, 21.
11. INSTALL 4" RESTRAINED C-900 MAINLINE FOR FUTURE USE. CAP AT THIS LOCATION IN A STANDARD IRRIGATION VALVE BOX.



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STATE OF WASHINGTON
BRYANA COLE
NO. 687 EXP. 01/28/2024
LANDSCAPE ARCHITECT

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
IRRIGATION PLAN

SHEET
L1.00

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	PSI
Q H F	RAIN BIRD 1804-PRS 5 SERIES MPR	2	30
Q T H F	RAIN BIRD 1804-PRS 8 SERIES MPR	2	30
Q T H F	RAIN BIRD 1804-PRS 10 SERIES MPR	5	30
Q T H TQ F	RAIN BIRD 1804-PRS 12 SERIES MPR	11	30
Q T H TQ F	RAIN BIRD 1804-PRS 15 SERIES MPR	23	30
8 10 12 15 18	RAIN BIRD 1804-PRS ADJ	23	30
1401 1402 1404 1408	RAIN BIRD RWS-B-C W/ RWS-SOCK 1400 SERIES	10	30

SYMBOL	MANUFACTURER/MODEL	QTY	PSI
25	RAIN BIRD 5006-PL-PC-R-SS-MPR 25	15	45
30	RAIN BIRD 5006-PL-PC-R-SS-MPR 30	63	45
35	RAIN BIRD 5006-PL-PC-R-SS-MPR 35	12	45

SYMBOL	MANUFACTURER/MODEL	QTY
	RAIN BIRD XCZ-100-PRB-COM	13
	PIPE TRANSITION POINT ABOVE GRADE	63
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD XB-PC	74,397 S.F.

20PC emitters (2 assigned to each 1 GAL. plant)
20PC emitters (4 assigned to each 1.75" / 8' plant)
20PC emitters (4 assigned to each 5-6' HT. plant)

SYMBOL	MANUFACTURER/MODEL	QTY
	RAIN BIRD PESB-PRS-D	12
	RAIN BIRD 44-LRC	8
	LANDSCAPE PRODUCTS INC. BBV	10
M	NETAFIM REED SWITCH REGISTER 2 2"	1
D	DRAIN VALVE	1
C	TORO DXI-PWM-TW	2
BP	MUNRO SIMP23053PHBP	1
	CAP FOR FUTURE USE	2
POC	POINT OF CONNECTION 2"	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	8,020 L.F.
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11. INSTALL ELECTRICAL JUNCTION BOX AT THIS LOCATION FOR IRRIGATION CONTROL WIRE CONNECTION TO THE BUILDING, SEE ELECTRICAL.
12. INSTALL 2" ELECTRICAL CONDUIT FROM CONTROLLER LOCATION TO JUNCTION BOX AT MAINLINE. SEE ELECTRICAL.
13. INSTALL 4" RESTRAINED C-900 MAINLINE FOR FUTURE USE. CAP AT THIS LOCATION IN A STANDARD IRRIGATION VALVE BOX.

GENERAL NOTES

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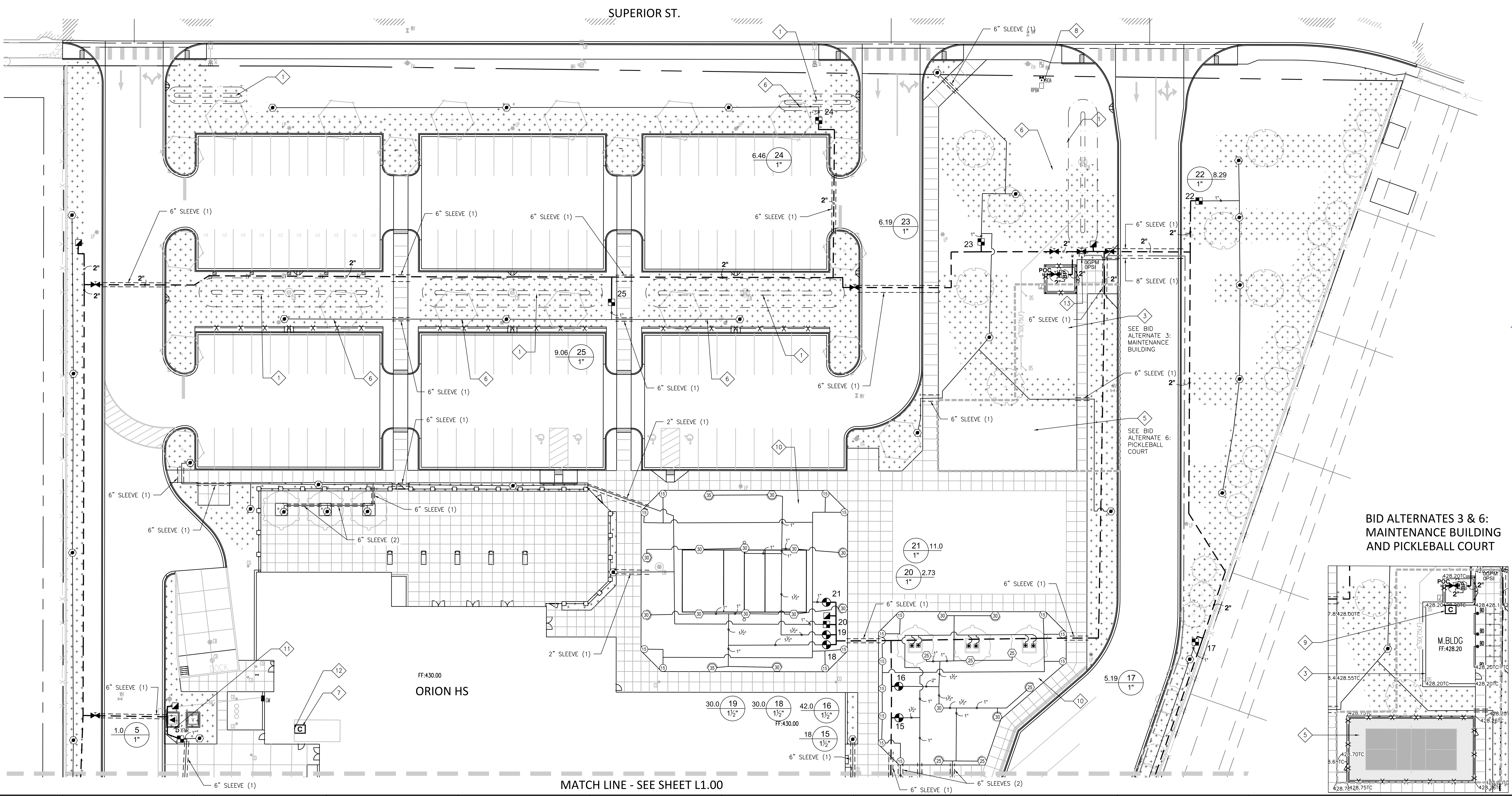
10. USE 4" POP UP SPRAY HEADS IN LAWN AREAS.
11. SEE SHEET L1.02-L1.03 FOR IRRIGATION DETAILS.

SCALE: 1" = 20'

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



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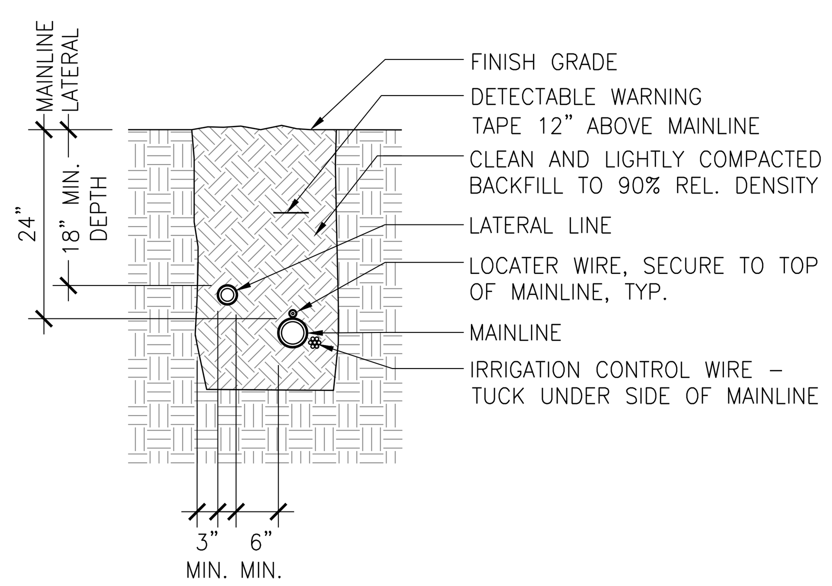
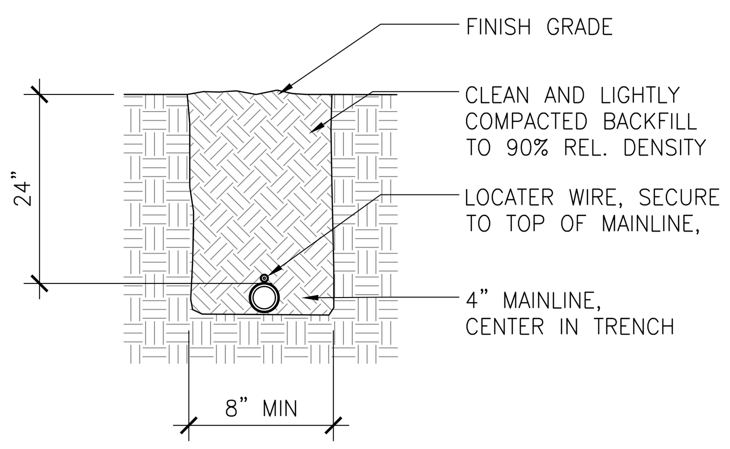
STATE OF WASHINGTON — BRYANA COLE — LANDSCAPE ARCHITECT — NO 887 EXP. 07/29/2024

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023
SHEET NAME: IRRIGATION PLAN
SHEET: L1.01



7 PIPE TRENCH 2" MAINLINE
Scale 3/4" = 1'-0



11 PIPE TRENCH 4" MAINLINE
Scale 3/4" = 1'-0

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS JUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.

AS AN EXAMPLE, IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE SIZE	BENDS				REDUCERS			DEAD END	
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.
2"	1'	1'	2'	6'	–	–	–	19'	6'
2.5"	1'	2'	4'	9'	4'	–	–	23'	10'
3"	2'	3'	6'	11'	8'	10'	–	30'	15'
4"	2'	4'	9'	20'	14'	20'	31'	45'	25'
6"	3'	6'	13'	29'	30'	40'	53'	63'	40'
8"	4'	8'	15	38'	33'	55'	63'	75'	70'
10"	5'	9'	19'	45'	36'	56'	75'	96'	90'
12"	5'	10'	21'	53'	38'	60'	83'	112'	110'

INSTALLATION CHART

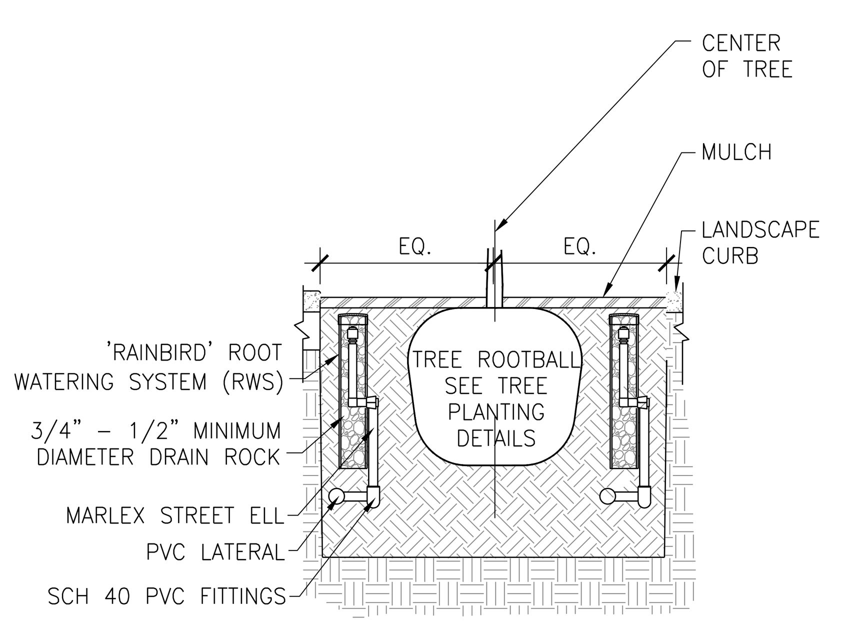
REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

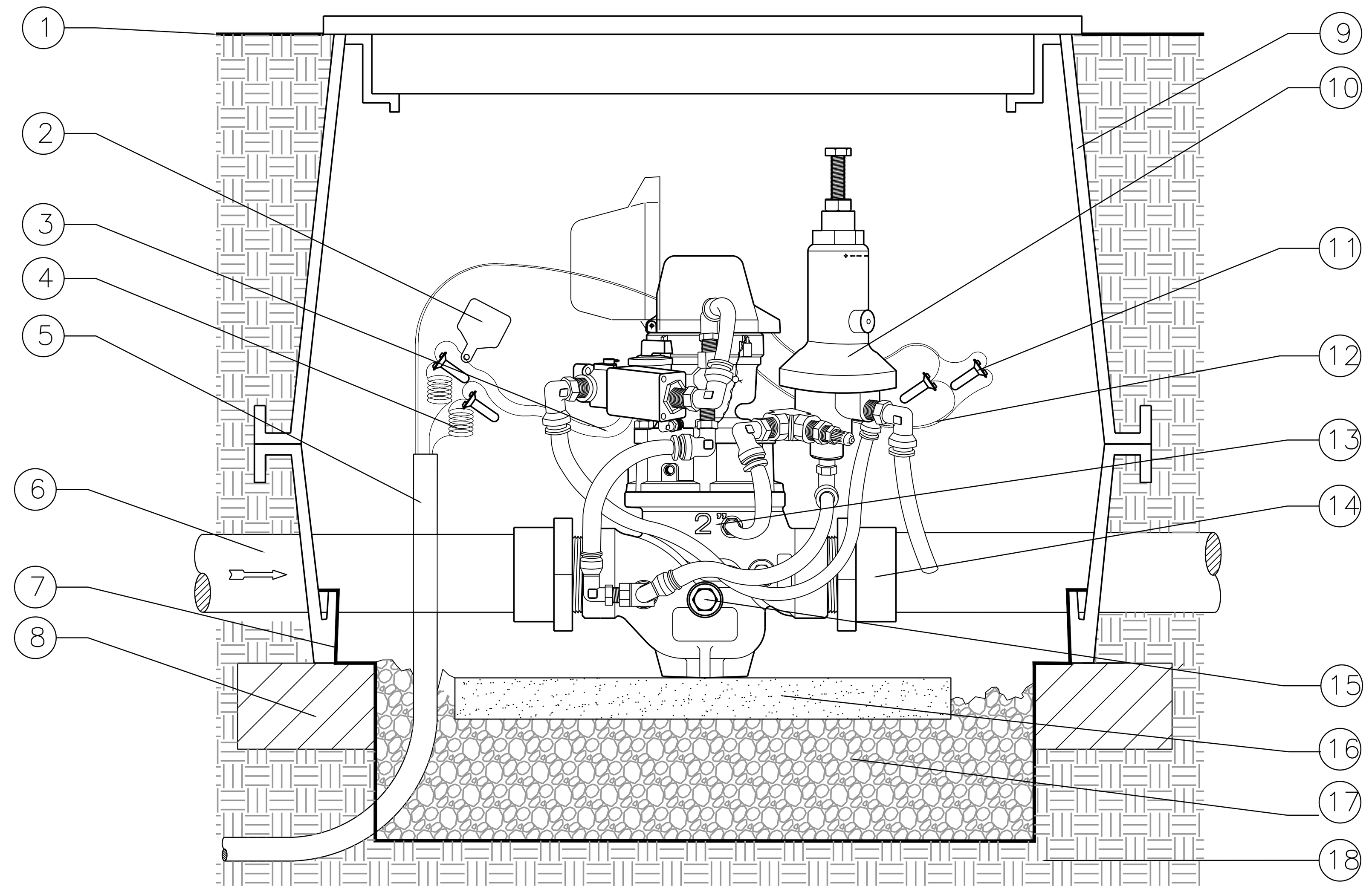
PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS.
2"	2	3/8" x 2.5"	20
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
4"	2	1/2" x 3"	50
6"	2	1/2" x 3.5"	50
8"	4	1/2" x 4"	50
10"	4	5/8" x 5.5"	100
12"	4	5/8" x 5.5"	100

CONTACT TONY GARNER @ (208) 631-7787, THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS. COORDINATE AN INSTALLATION CLINIC WITH TONY GARNER PRIOR TO INSTALLING THE MAINLINE.

12 JOINT RESTRAINTS 4" MAINLINE
Scale NTS



13 TREE BUBBLER IN LAWN
SCALE: 1/2"=1'-0



LEGEND

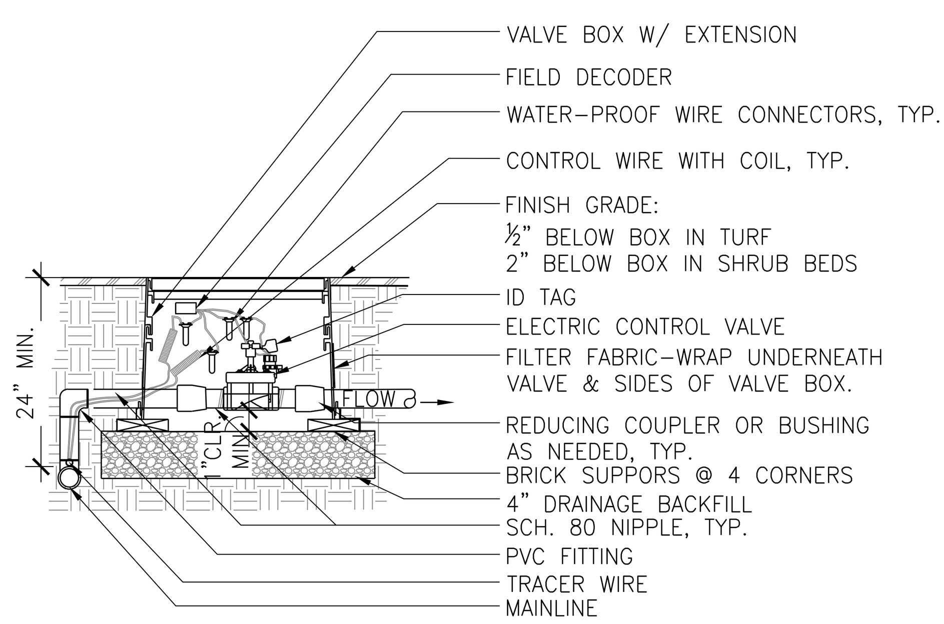
1. FINISH GRADE.
2. VALVE I.D. TAG WITH "MV" PRINTED ON IT.
3. MASTER VALVE WIRES FROM SOLENOID (INCLUDED).
4. PAIR OF WIRES, COLOR CODED DIFFERENT THAN. OTHER VALVES. REFER TO CONTROLLER SPECS
5. 1 1/2" SCH 40 CONDUIT FROM CONTROLLER PER SPECS. PULL BOXES EVERY 200' AND ON EACH SIDE OF HARDSCAPES AREA.
6. PVC MAINLINE PIPING PER IRRIGATION LEGEND. (PLAN SIZE)
7. FILTER FABRIC PER SPECS.
8. BRICK SUPPORT. (4 TOTAL/ 1 @ EA CORNER)
9. JUMBO VALVE BOX WITH EXTENSION(S) PER SPECS. HEAT BRAND "MV-FS" ON LID IN 2" HIGH BLOCK LETTERS.
10. PRESSURE REDUCING PILOT
11. WATERPROOF WIRE CONNECTORS (3M DBY/DBR).
12. SHIELDED FLOW SENSOR WIRES TO CONTROLLER (PER CONTROLLER SPECS).
13. NETAFIM HYDROMETER, REFER TO LEGEND FOR MODEL NUMBER.
14. SCH.80 PVC MIPT ADAPTOR SIZE PER VALVE AND MAINLINE PIPING (2 REQUIRED)
15. DRAINAGE NUT FOR WINTERIZATION (INCLUDED).
16. CONCRETE PAVER SUPPORT BLOCK.
17. COMPACTED 3/4" WASHED GRAVEL. 12" THICK MIN.
18. COMPACTED NATIVE SOIL.

NOTES TO DESIGNER:
1. NO STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF HYDROMETER IS REQUIRED.
2. THE INSTALLATION OF AN ISOLATION VALVE UPSTREAM OF THE HYDROMETER IS RECOMMENDED.
3. ALL THREADED CONNECTIONS SHALL RECEIVE TEFLON TAPE PER TAPE MANUFACTURERS RECOMMENDATIONS.

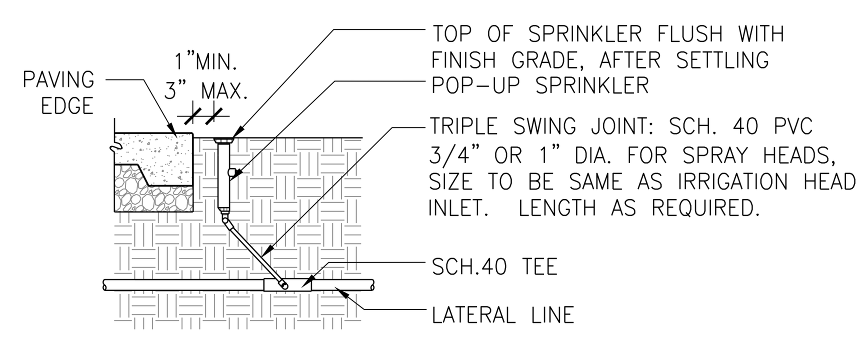
NETAFIM™

4 MASTER VALVE/FLOW SENSOR – 2"
NOT TO SCALE

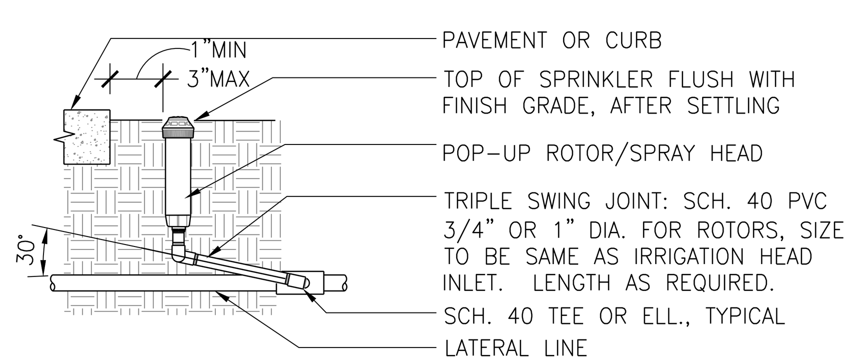
DETAIL - PH20A



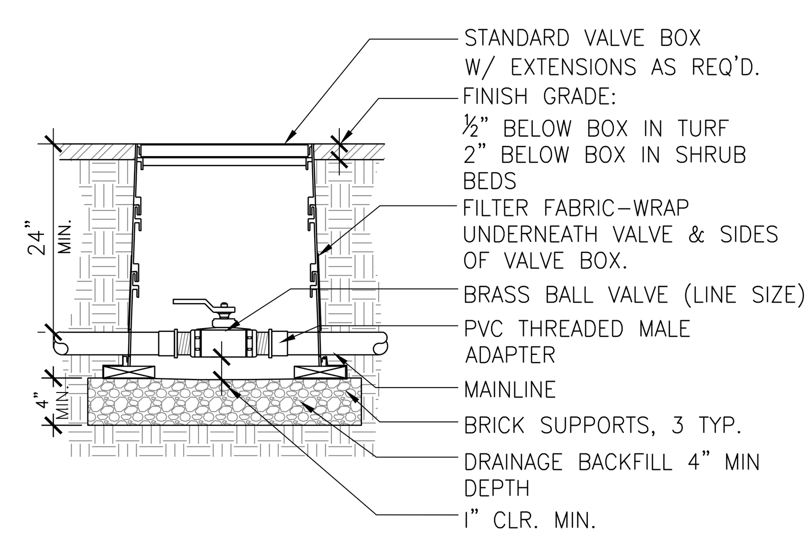
8 REMOTE CONTROL VALVE
Scale 3/4" = 1'-0



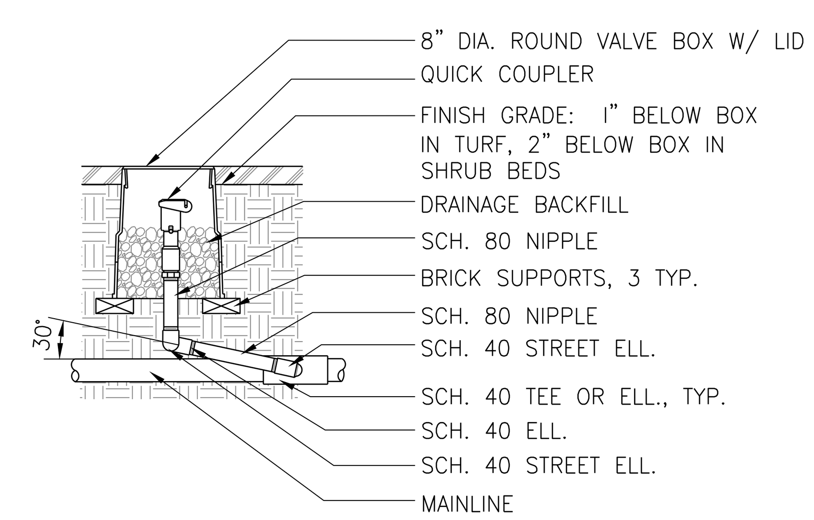
9 SPRAY HEAD
Scale 3/4" = 1'-0



10 ROTOR HEAD
Scale 3/4" = 1'-0

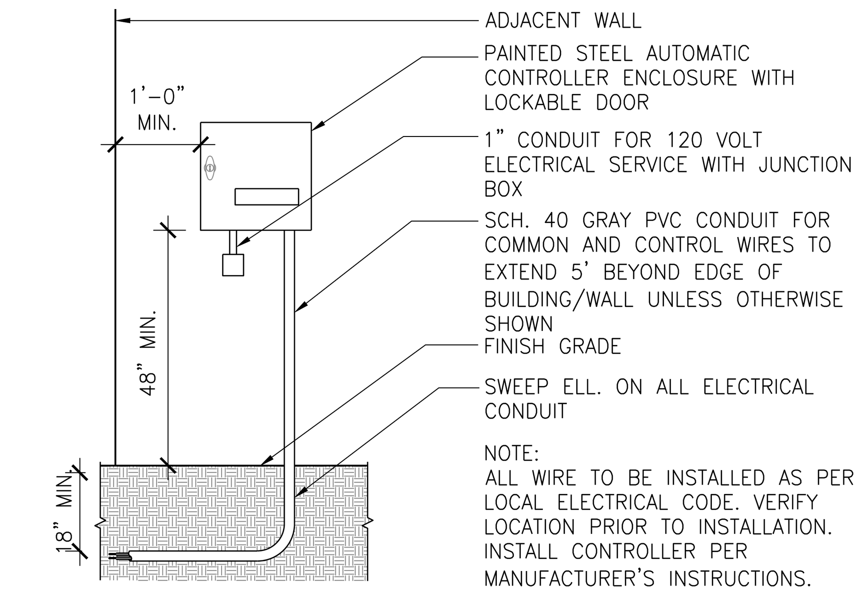


5 ISOLATION VALVE
Scale 3/4" = 1'-0



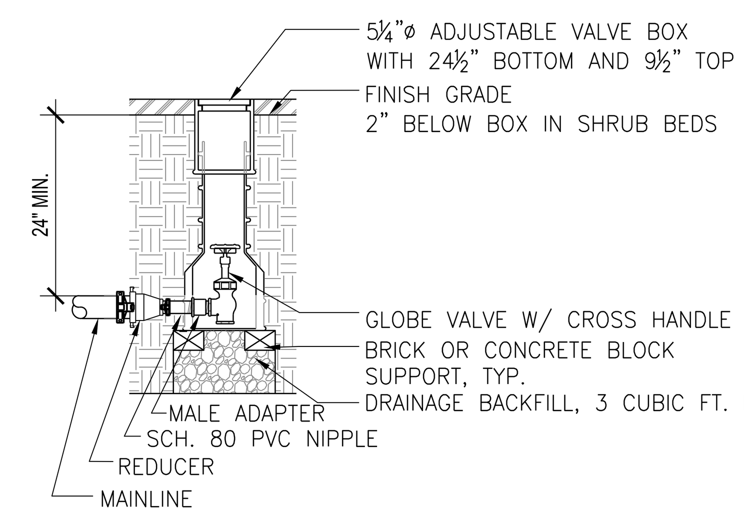
NOTE:
CONTRACTOR'S OPTION TO PROVIDE PRE-ASSEMBLED TRIPLE SWING JOINT WITH UNITIZED "O" RING ASSEMBLY. SIZE TO BE SAME AS IRRIGATION HEAD INLET. LENGTH AS REQUIRED.

6 QUICK COUPLING VALVE
Scale 1"=1'-0"

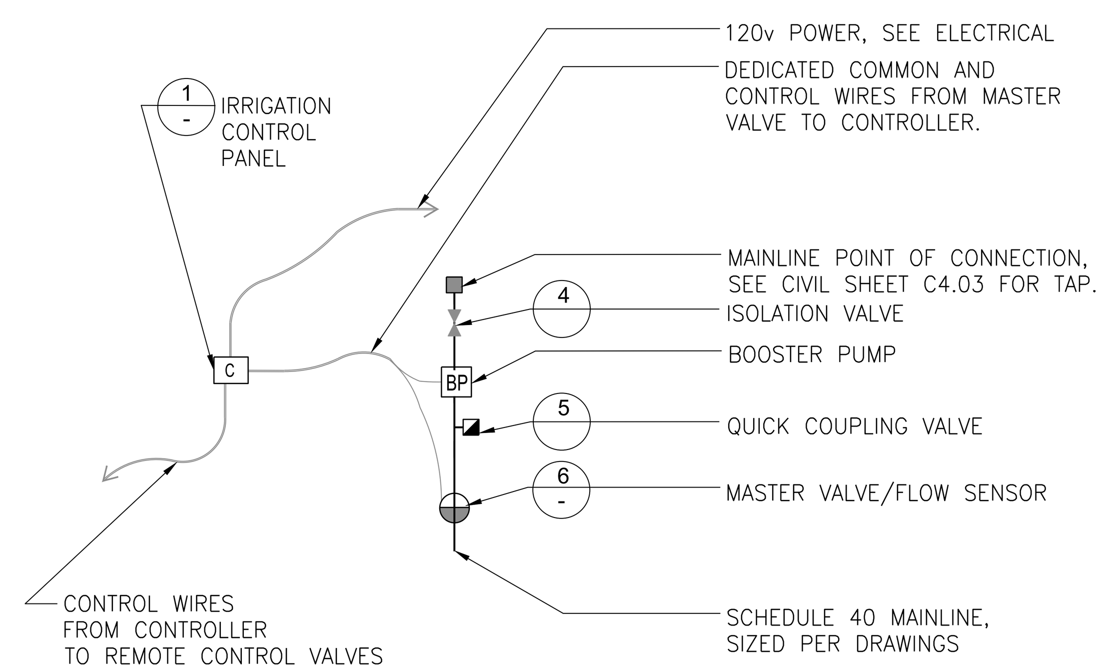


NOTE:
ALL WIRE TO BE INSTALLED AS PER LOCAL ELECTRICAL CODE. VERIFY LOCATION PRIOR TO INSTALLATION. INSTALL CONTROLLER PER MANUFACTURER'S INSTRUCTIONS.

1 WALL-MOUNTED CONTROLLER
SCALE: 1/2"=1'-0



2 1" DRAIN VALVE (GLOBE)
Scale 3/4" = 1'-0



3 POINT OF CONNECTION
SCALE: 1/2"=1'-0

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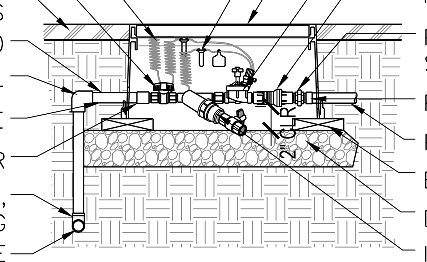
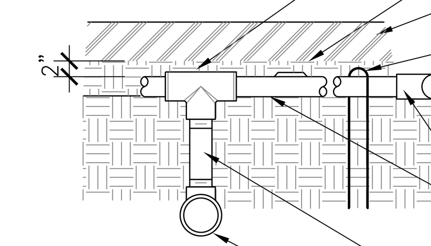
DATE
12/18/2023

SHEET NAME
IRRIGATION DETAILS

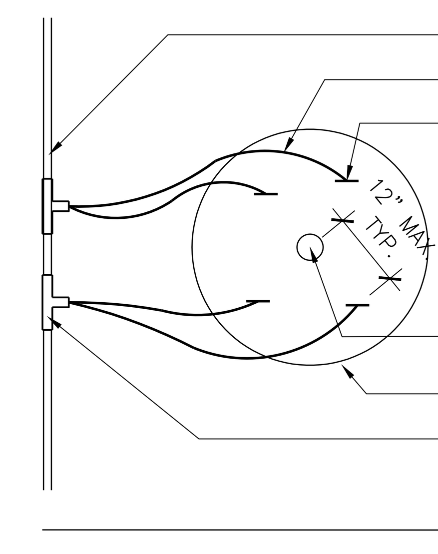
SHEET
L1.02



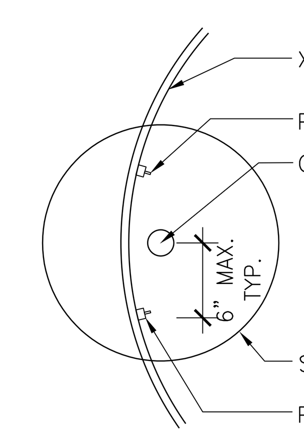
5 WIDE FLOW DRIP VALVE
Scale 3/4" = 1'-0



1 PIPE TRANSITION POINT ABOVE GRADE
Scale 3/4" = 1'-0



2 TREE DRIP EMITTER
Scale 3/4" = 1'-0



3 SHRUB DRIP EMITTER
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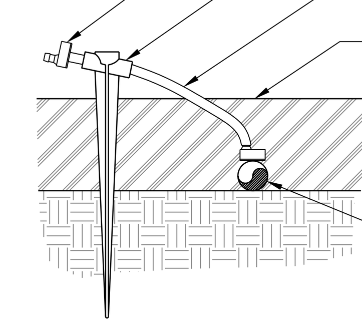

4 TREE DRIP EMITTER
Scale 3/4" = 1'-0

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DATE
12/18/2023

SHEET NAME
IRRIGATION DETAILS

SHEET
L1.03

GENERAL NOTES

1. PLANTING BEDS ARE TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK,TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE BEFORE BEGINNING ANY LANDSCAPE WORK.
2. USE TRIANGULAR SPACING FOR ALL GROUNDCOVER UNLESS NOTED OTHERWISE.
3. SHRUBS AND GROUNDCOVER TO BE PLANTED A MINIMUM OF 1/2 OF THEIR O.C. SPACING AWAY FROM PAVING EDGE; UNLESS OTHERWISE NOTED.
4. ALL VEGETATION TO BE WELL ROOTED AND WELL BRANCHED.
5. ALL PLANT MATERIAL SHALL BE NURSERY GROWN.
6. QUANTITIES INDICATED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. INSTALL NUMBER OF PLANTS AS DRAWN. CONTRACTOR RESPONSIBLE FOR INSTALLING PLANTS IN QUANTITIES AND LOCATIONS SHOWN.
7. PROVIDE STANDARD, 1 1/2" CRUSHED BROWN BASALT ROCK MULCH IN ALL PLANTING BEDS AND STORM WATER FACILITIES AT 2" DEPTH.
8. SEE CIVIL FOR ASPHALT & CONCRETE PAVING.
9. CONTRACTOR SHALL VERIFY THAT ALL SUBGRADE PREPARATION HAS BEEN COMPLETED TO SPECIFIED TOLERANCES PRIOR TO BEGINNING WORK.
10. SOD MUST BE INSTALLED BY JULY 1, 2025. 100 DAY WARRANTY & MAINTENANCE PERIOD WILL BEGIN UPON COMPLETION OF INSTALLATION.
11. SEE SHEET L4.03 FOR PLANTING DETAILS.

KEY NOTES

1. LANDSCAPE CURBING, SEE DETAIL 5, SHEET L4.03
2. ROOT BARRIER TO BE INSTALLED WHERE TREES ARE PLANTED WITHIN 5' OF PAVEMENT EDGE AND ON ALL FOUR SIDES OF PLANTERS. SEE DETAIL 4 SHEET L4.03
3. BID ALTERNATE 3: MAINTENANCE BUILDING
4. BID ALTERNATE 4: STORAGE BUILDING
5. BID ALTERNATE 8: SYNTHETIC TURF– SEE SHEET L4.03 DETAIL 5 FOR AREAS TO RECEIVE SYNTHETIC TURF
6. BID ALTERNATE 6: PICKLEBALL COURT SEE DETAILS 1–6 SHEET L4.01
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8. STANDARD 1 ½" CRUSHED BROWN BASALT ROCK TO BE INSTALLED IN ALL PLANTING AREAS & STORMWATER FACILITIES.

PLANT SCHEDULE

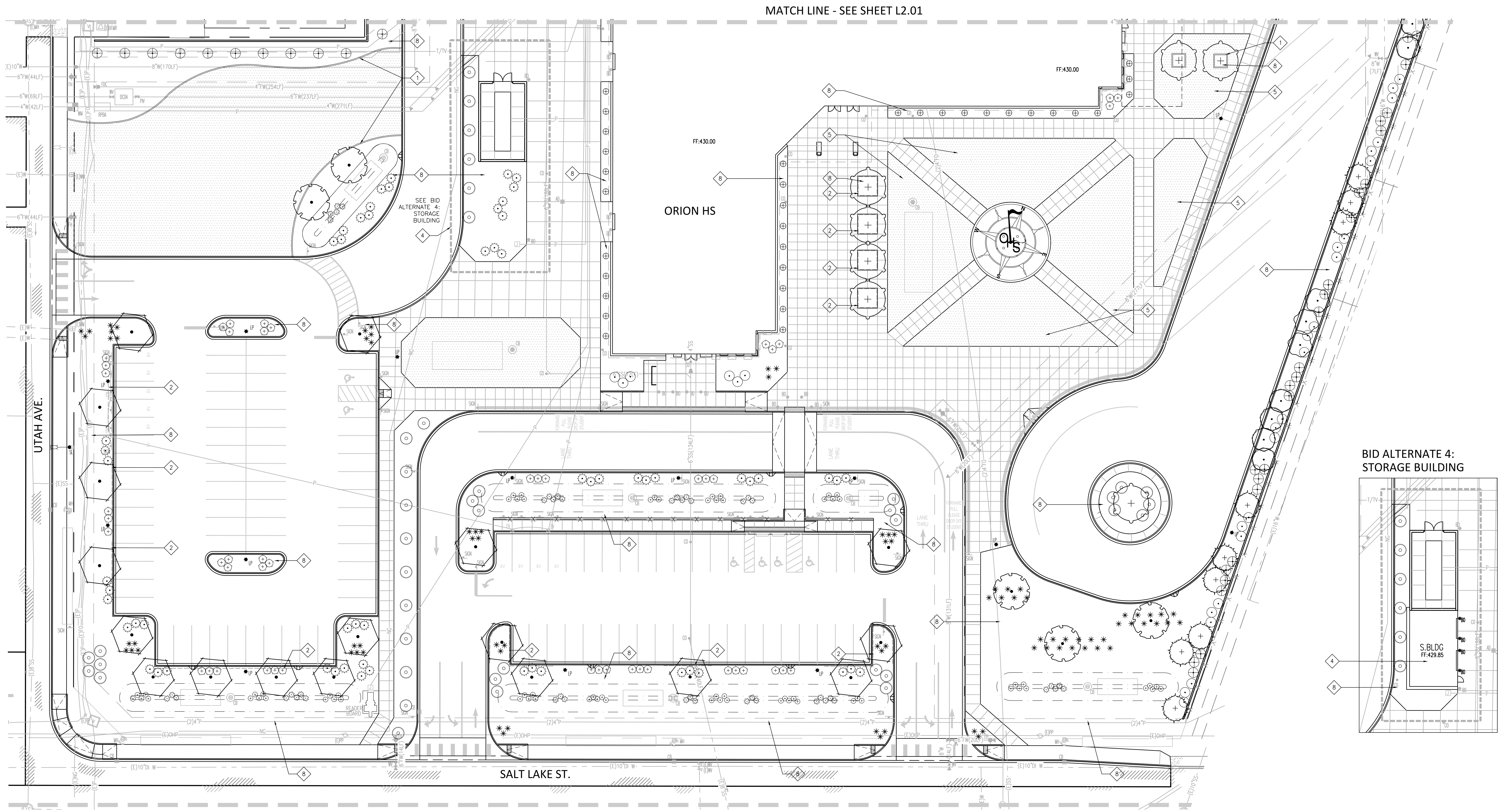
SYMBOL	BOTANICAL / COMMON NAME	SIZE	QTY
TREES			
	CARPINUS BETULUS 'FRANS FONTAINE' / FRANS FONTAINE HORNBEAM	1.75" / 8'	11
	PARROTIA PERSICA 'INGE'S RUBY VASE' / RUBY VASE PERSIAN PARROTIA	1.75" / 8'	13
	PINUS NIGRA 'OREGON GREEN' / OREGON GREEN AUSTRIAN PINE	5–6' HT.	15
	QUERCUS COCCINEA / SCARLET OAK	1.75" / 8'	14
	ULMUS DAVIDIANA JAPONICA 'EMERALD SUNSHINE' / EMERALD SUNSHINE ELM	1.75" / 8'	13
	ZELKOVA SERRATA 'SCHMIDTLOW' / WIRELESS® JAPANESE ZELKOVA	1.75" / 8'	39

SHRUBS			
	ABELIA X 'EDWARD GOUCHER' / EDWARD GOUCHER ABELIA	1 GAL.	54
	BUXUS X 'GREEN GEM' / GREEN GEM BOXWOOD	1 GAL.	36
	COTONEASTER DAMMERI 'LOWFAST' / LOWFAST BEARBERRY COTONEASTER	1 GAL.	58
	EUONYMUS ALATUS 'COMPACTUS' / COMPACT BURNING BUSH	1 GAL.	97
	JUNIPERUS CONFERTA 'BLUE PACIFIC' / BLUE PACIFIC SHORE JUNIPER	1 GAL.	96
	PANICUM VIRGATUM 'SHENANDOAH' / SHENANDOAH SWITCH GRASS	1 GAL.	85
	PENNISETUM ALOPECUROIDES 'HAMELN' / HAMELN FOUNTAIN GRASS	1 GAL.	280
	SCHIZACHYRIUM SCOPARIUM 'THE BLUES' / THE BLUES LITTLE BLUESTEM	1 GAL.	91
	SPIRAEA BETULIFOLIA 'TOR' / WHITE FROST™ BIRCHLEAF SPIREA	1 GAL.	88

SYMBOL	BOTANICAL / COMMON NAME
GROUND COVERS	
	TURF BASE BID: BASIN SOD– 98% KENTUCKY BLUEGRASS, 2% PERENNIAL RYE BID ALTERNATE 8: INSTALL SYNTHETIC TURF IN LOCATIONS SHOWN ON SHEET L4.03 DETAIL 5. SEE GENERAL NOTE 10 ON THIS SHEET.

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

0 20 40
SCALE: 1" = 20'



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ENERGY PUBLIC WORKS LAND DEVELOPMENT
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STATE OF WASHINGTON
BRYANA COLE
LANDSCAPE ARCHITECT

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
PLANTING PLAN

SHEET
L2.00

GENERAL NOTES

1. PLANTING BEDS ARE TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK,TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE BEFORE BEGINNING ANY LANDSCAPE WORK.
2. USE TRIANGULAR SPACING FOR ALL GROUNDCOVER UNLESS NOTED OTHERWISE.
3. SHRUBS AND GROUNDCOVER TO BE PLANTED A MINIMUM OF 1/2 OF THEIR O.C. SPACING AWAY FROM PAVING EDGE; UNLESS OTHERWISE NOTED.
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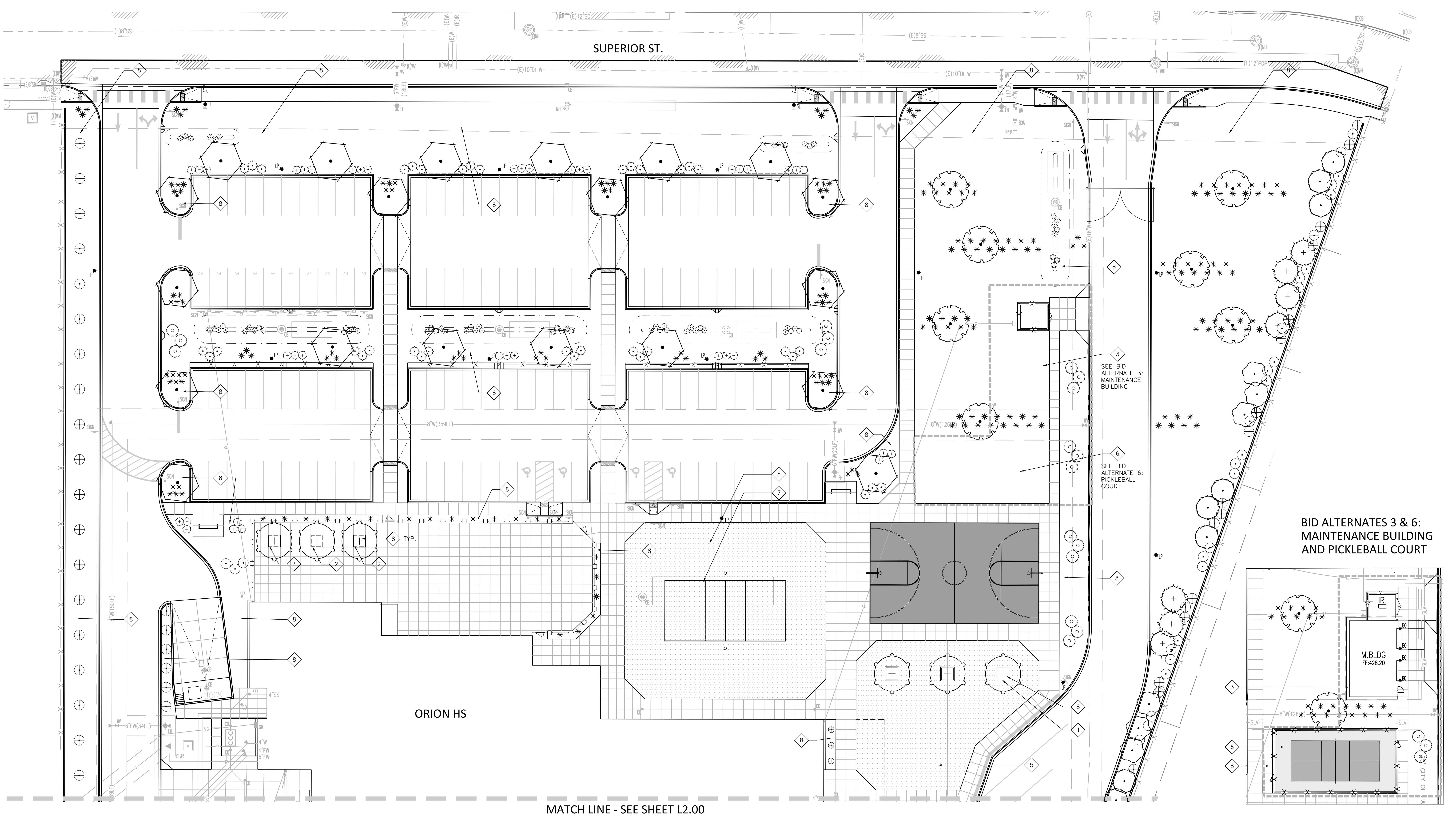

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PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
PLANTING PLAN

SHEET
L2.01

GENERAL NOTES

1. CONSTRUCTION STAKING SHALL CONFORM TO SPECIFICATION 01410, CONSTRUCTION STAKING.
2. DIGITAL FILES WILL BE PROVIDED FOR CONTRACTORS USE IN STAKING AND LAYOUT OF ALL STRUCTURES.

KEY NOTES

1. READER BOARD, BY OTHERS
2. 3' HEIGHT CHAIN LINK FENCING- BLACK VINYL COATED WITH POWDER COATED POSTS. SEE DETAIL 1 SHEET L4.00
3. FLAGPOLE- AMERICAN FLAGPOLE & FLAG CO. "CONTINENTAL", 25' HIGH ALUMINUM POLE FOR 90MPH+ WINDS. C25050125, SEE DETAILS 4-5 SHEET L4.00
4. BASKETBALL COURT STRIPING WITH PLEXIPAVE COURT SURFACING, SEE DETAIL 1 SHEET L4.02. STRIPING TO BE WHITE, SURFACING COLOR SELECTION TO BE APPROVED BY OWNER FROM MANUFACTURER'S FULL COLOR CHART.
5. BID ALTERNATE 6: PICKLEBALL COURT- STRIPING AND PLEXIPAVE COURT SURFACING. STRIPING TO BE WHITE, SURFACING COLOR SELECTION TO BE APPROVED BY OWNER FROM MANUFACTURER'S FULL COLOR CHART. POSTS & NET: BISON "RECREATION" PICKLEBALL SYSTEM POSTS, MODEL PK05XL. "COMPETITION" PICKLEBALL NET, MODEL PK10NXL. SEE DETAILS 1-6 SHEET L4.01.
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8. VEHICULAR GATE- TIGERTEETH MANUAL SWING BARRIER GATE. SEE DETAIL 3 SHEET L4.00
9. SINGLE SWING CHAIN LINK GATE 6' HEIGHT X 4' WIDTH. BLACK VINYL COATED WITH POWDER COATED POSTS, SEE DETAIL 2 SHEET L4.00
10. BASKETBALL GOAL: BISON "ULTIMATE" SERIES MODEL BA871-BK SINGLE-SIDED GOAL WITH 60" OFFSET, 42"x60". STEEL BACKBOARD WITH GOAL MODEL BA39U. SEE DETAILS 2-3 SHEET L4.01
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12. BID ALTERNATE 4: STORAGE BUILDING
13. DECORATIVE FENCE, AMERISTAR "MONTAGE II GENESIS" 7' HEIGHT METAL FENCE WITH BLOCK COLUMNS, SEE DETAIL 9 SHEET 4.01. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR PILASTER DESIGN AND COLOR.
14. COURTYARD GATE- AMERISTAR "EXODUS PEDESTRIAN EGRESS GATE", 42" WIDTH- CENTER BETWEEN COLUMNS
15. BIKE RACK, SEE DETAIL 7 SHEET L4.02
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17. DIMENSION FROM CENTER OF END POST
18. COMPASS ROSE WITH INTEGRAL CONCRETE COLOR AND BRONZE DIRECTIONAL LETTERS. SEE SPECIFICATION 03 35 19. "INTEGRALLY COLORED CONCRETE FINISHING", SEE SHEET L4.00 DETAIL 5
19. USE DIMENSION TO ORIENT COMPASS ROSE TO TRUE NORTH
20. DIMENSION TO CENTER OF GATE POST OR LATCH POST
21. VEHICULAR GATE POST- SEE DEATIL 3 SHEET L 4.00.
22. CHAIN LINK FENCE IN CONCRETE MOW STRIP

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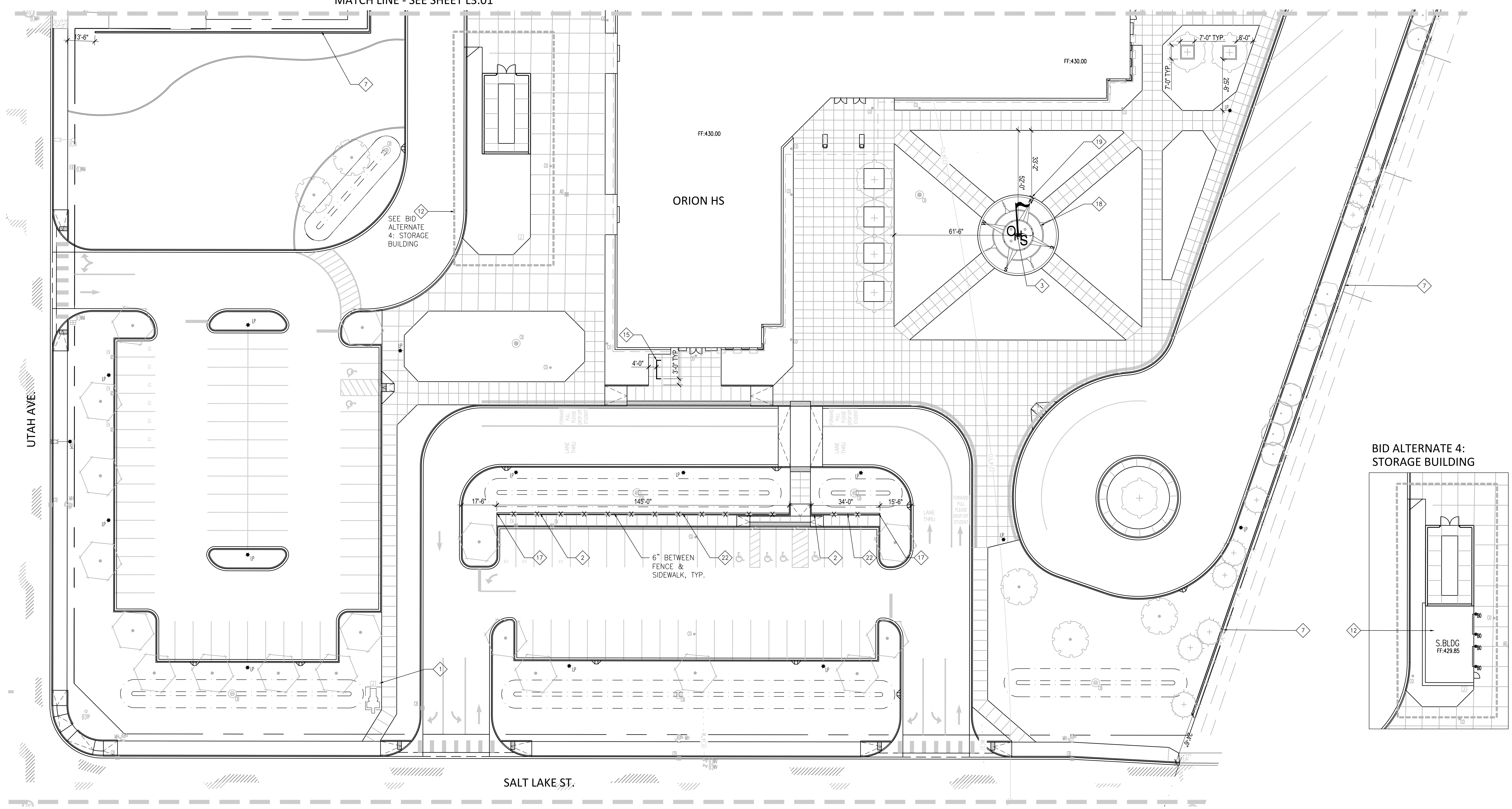
SCALE: 1" = 20'



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PASCO SCHOOL DISTRICT #1

MacKay Sposito

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SITE FURNISHING PLAN

SHEET
L3.00

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22. CHAIN LINK FENCE IN CONCRETE MOW STRIP
23. DOUBLE SWING CHAIN LINK GATES 6' HEIGHT X 4' WIDTH- CENTERED IN FENCE PANEL. BLACK VINYL COATED WITH POWDER COATED POSTS, SEE DETAIL 2 SHEET L4.00.

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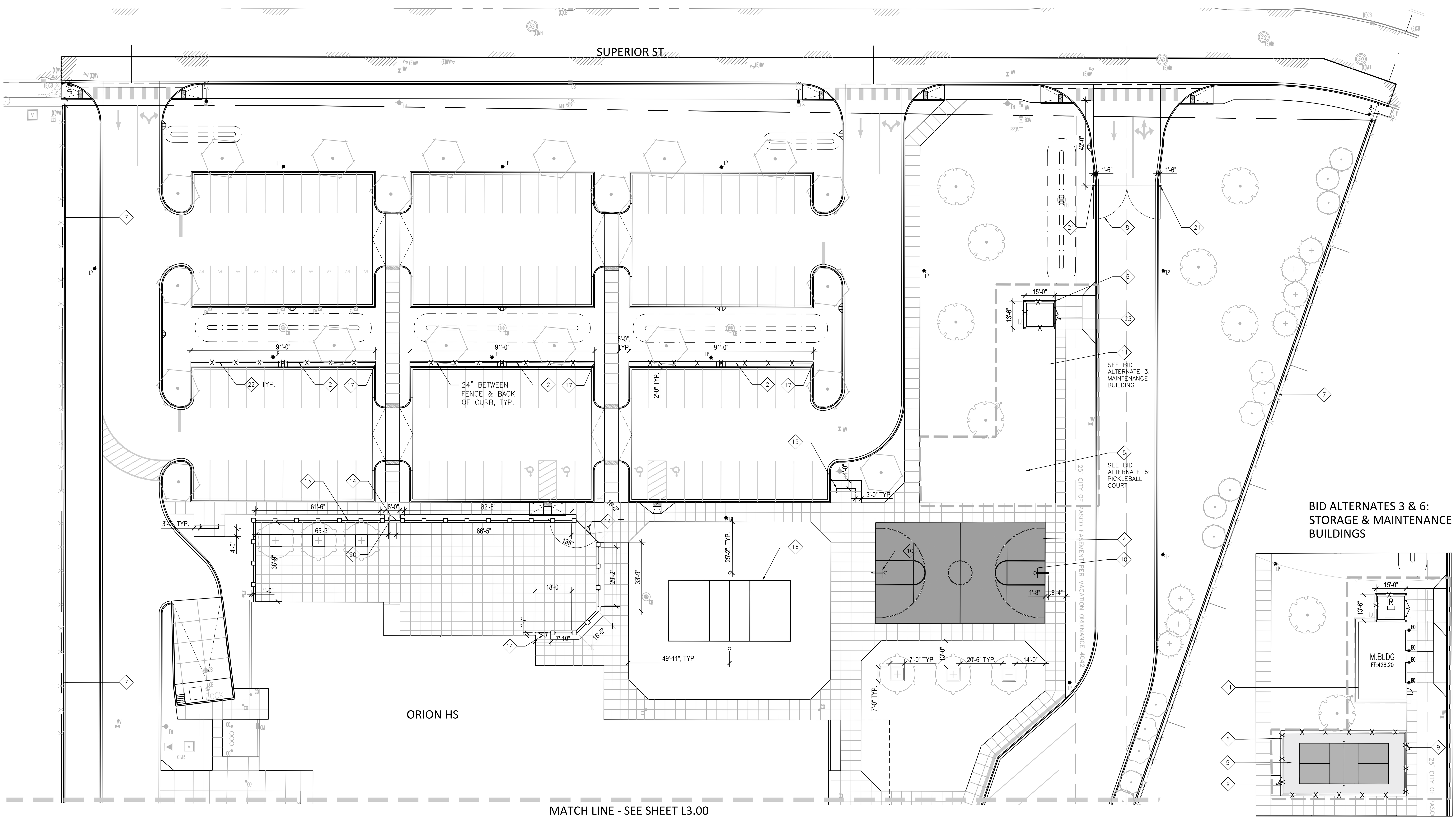

MATCH LINE - SEE SHEET L3.00

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SHEET NAME
SITE FURNISHING PLAN

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L3.01

CHAIN LINK GATE SCHEDULE

FENCE TYPE	GATE WIDTH/DESCRIPTION	GATE HEIGHT	HINGE POSTS	GATE FRAME	MIDDLE RAILS	CHAINLINK FABRIC SIZE AND GAUGE	HINGE POST FOOTING DIMENSIONS (DIAMETER X DEPTH)	ADDITIONAL NOTES
1	4' GATE IN 6' FENCE	6'	3"	1 1/2"	1 1/4"	2", 9G.	12" X 66"	PROVIDE PADLOCK LATCH

GATE NOTES:

1. PROVIDE SHOP DRAWINGS OF ALL GATES FOR APPROVAL, INCLUDING PLAN AND ELEVATIONS. INCLUDE ALL NECESSARY COMPONENTS AND HARDWARE.
2. SEE DETAILS ON THIS SHEET FOR MORE INFORMATION.
3. PIPE SIZES SHOWN ARE NOMINAL, SEE SPECIFICATIONS FOR MORE INFORMATION.
4. GATE WIDTHS GIVEN ARE MEASURED FROM CENTER OF GATE POSTS.
5. GATE HEIGHTS GIVEN ARE NOMINAL; MATCH HEIGHT OF FENCE OR MIDDLE RAIL AS SHOWN, WHERE APPLICABLE.
6. LATCH POSTS SHALL MATCH THE FENCE'S LINE POSTS, PER FENCE SCHEDULE ON THIS SHEET.
7. WHERE A GATE USES THE FENCE'S END, OR CORNER POST AS THE GATE'S HINGE OR LATCH POST, USE THE LARGER SIZE POST AND FOOTING.
8. COORDINATE LOCATIONS OF GATE POSTS WITH LIGHT POLE FOOTINGS,
9. PADLOCKS SHALL BE PROVIDED BY OWNER.
10. PROVIDE MINIMUM 3'-0" CLEAR WIDTH OPENING AT EACH GATE, WHEN GATE IS OPEN.
11. PROVIDE LATCH HARDWARE AT ALL GATES IN THE PICKLE BALL COURT THAT ALLOWS THE GATE TO ONLY OPEN IN ONE DIRECTION. GATES SHALL ONLY SWING AWAY FROM THE PICKLE BALL COURT.
12. ALL CHAIN LINK FENCE COMPONENTS TO HAVE A BLACK POWDERCOAT FINISH PER SPECIFICATIONS.

CHAIN LINK FENCE SCHEDULE

FENCE TYPE	FENCE HEIGHT/DESCRIPTION	END AND CORNER POSTS	LINE POSTS	TOP AND BOTTOM RAILS	MIDDLE RAILS	BRACE RAILS	CHAINLINK FABRIC SIZE AND GAUGE	MAXIMUM POST SPACING	END/CORNER POST FOOTING DIMENSIONS (DIAMETER X DEPTH)	LINE POST FOOTING DIMENSIONS (DIAMETER X DEPTH)
A	3' CHAINLINK FENCE	2"	1 1/2"	1 1/4"	NONE	1 1/4"	2", 9G.	6'	12" X 30" (SEE NOTE 5)	9" X 30" (SEE NOTE 5)
B	6' CHAINLINK FENCE	2 1/2"	2"	1 1/4"	NONE	1 1/4"	2", 9G.	8'	12" X 48"	12" X 42"

FENCE NOTES:

1. PROVIDE SHOP DRAWINGS OF ALL FENCE TYPES FOR APPROVAL. INCLUDE ALL NECESSARY COMPONENTS AND HARDWARE.
2. SEE DETAILS ON THIS SHEET FOR MORE INFORMATION.
3. WITHIN EACH RUN OF A PARTICULAR FENCE TYPE, SPACE POSTS EQUALLY, NOT TO EXCEED THE MAXIMUM POST SPACING.
4. PIPE SIZES SHOWN ARE NOMINAL, SEE SPECIFICATIONS FOR MORE INFORMATION.
5. COORDINATE LOCATIONS OF FENCE POSTS WITH LIGHT POLE FOOTINGS, STORM CLEANOUTS, AND OTHER UTILITIES. ADJUST LOCATIONS OF STORM CLEANOUTS AND OTHER UTILITIES TO ACCOMMODATE LOCATIONS OF FENCE, AND LIGHT POLE FOOTINGS. STAKE FENCING LOCATION FOR APPROVAL PRIOR TO INSTALLATION.
6. ALL CHAIN LINK FENCE COMPONENTS TO BE BLACK POWDERCOAT FINISH PER SPECIFICATIONS.

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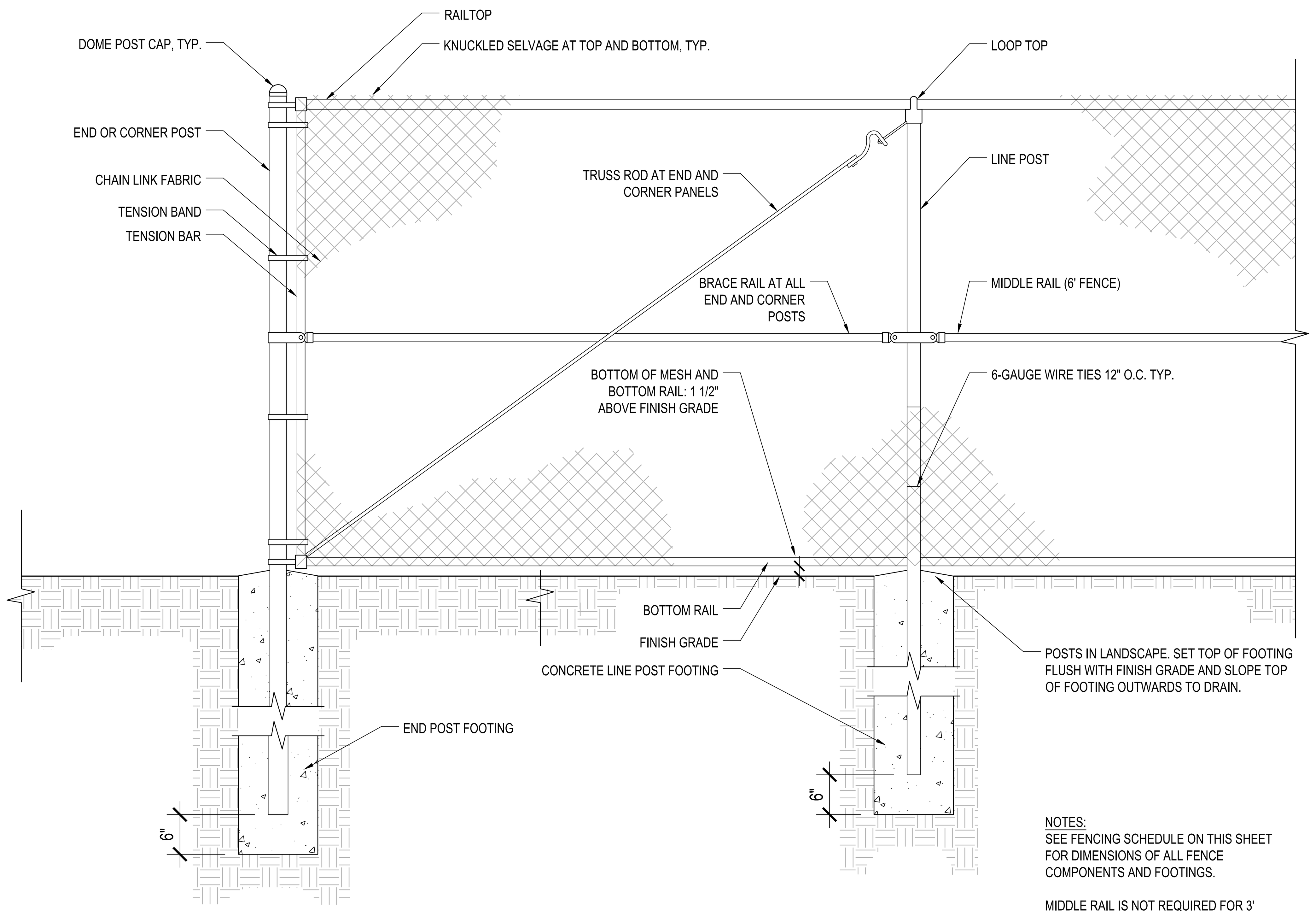
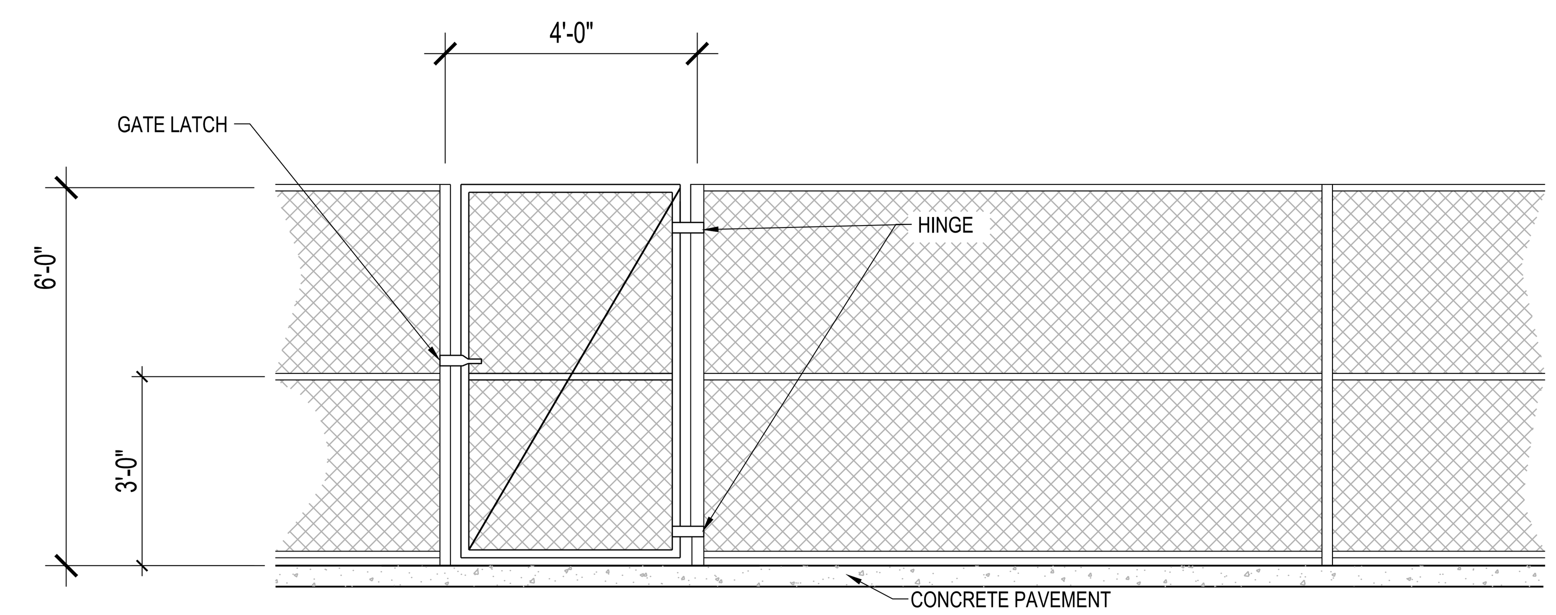


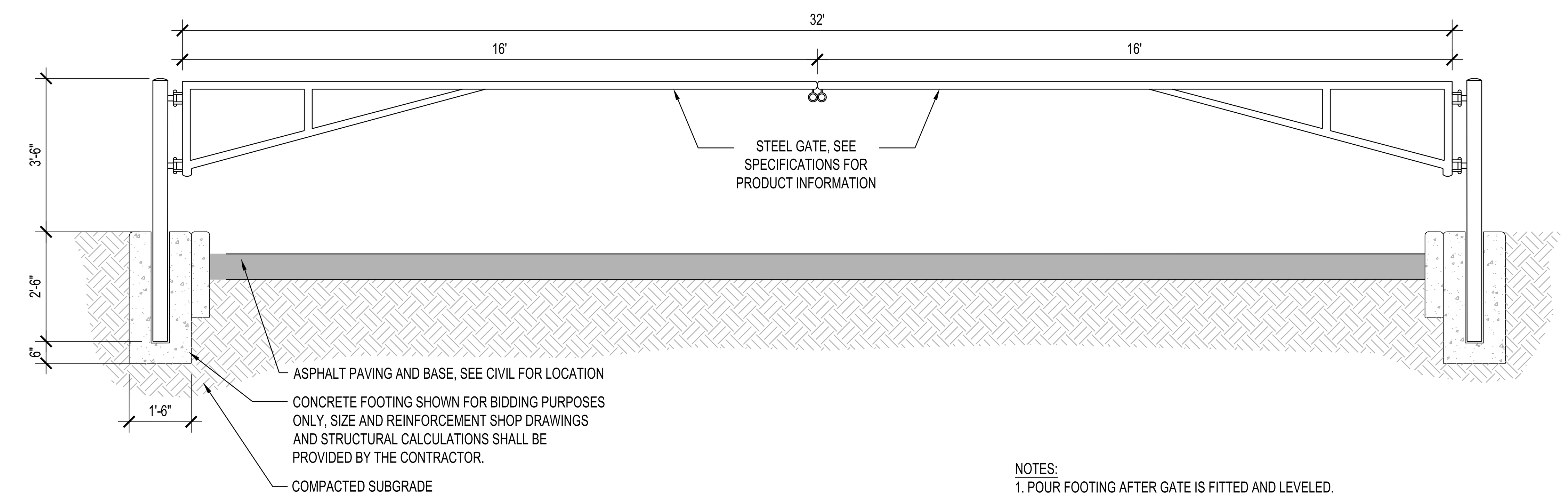
NOTES:
SEE FENCING SCHEDULE ON THIS SHEET FOR DIMENSIONS OF ALL FENCE COMPONENTS AND FOOTINGS.

MIDDLE RAIL IS NOT REQUIRED FOR 3' FENCE.

1 CHAIN LINK FENCE
SCALE: 1"=1'-0"



2 4' WIDE CHAIN-LINK GATE IN 6' FENCE
SCALE: 1/2" =1'-0"

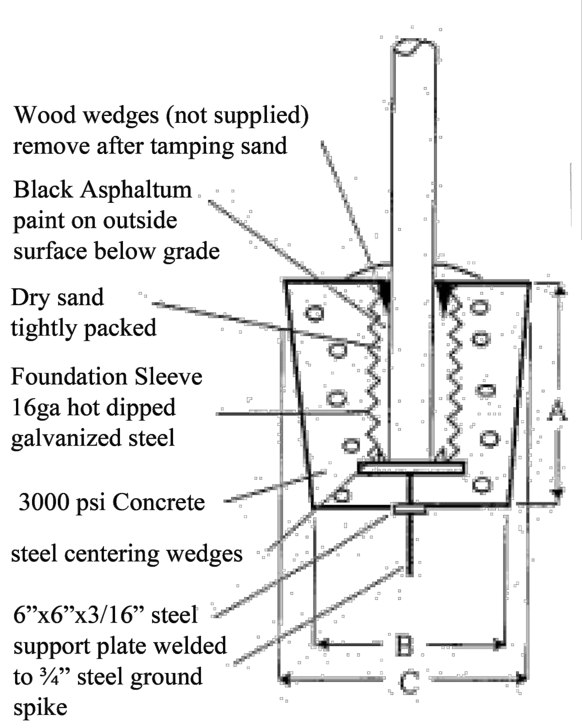


NOTES:
1. POUR FOOTING AFTER GATE IS FITTED AND LEVELED.

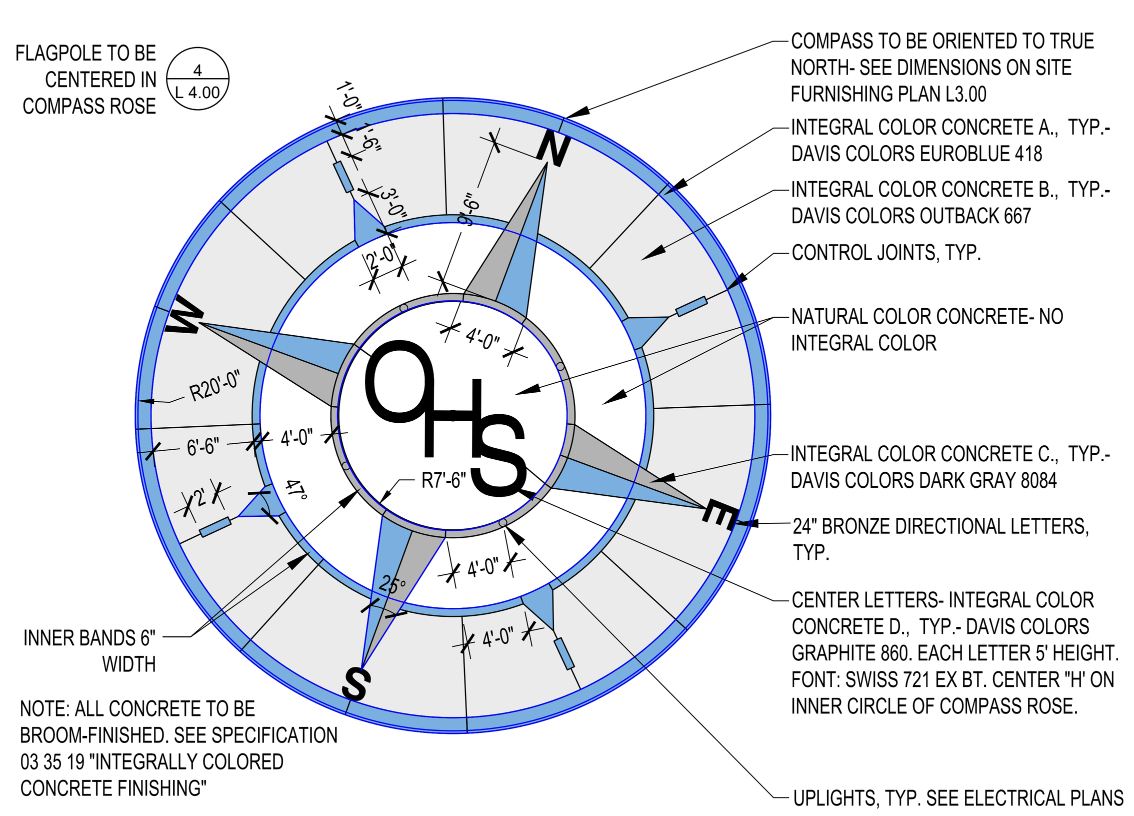
3 STEEL VEHICULAR GATE
NTS

Standard Recommended Foundation Dimensions

Exp Hght	A	B	C
25'	3'6"	24"	30"



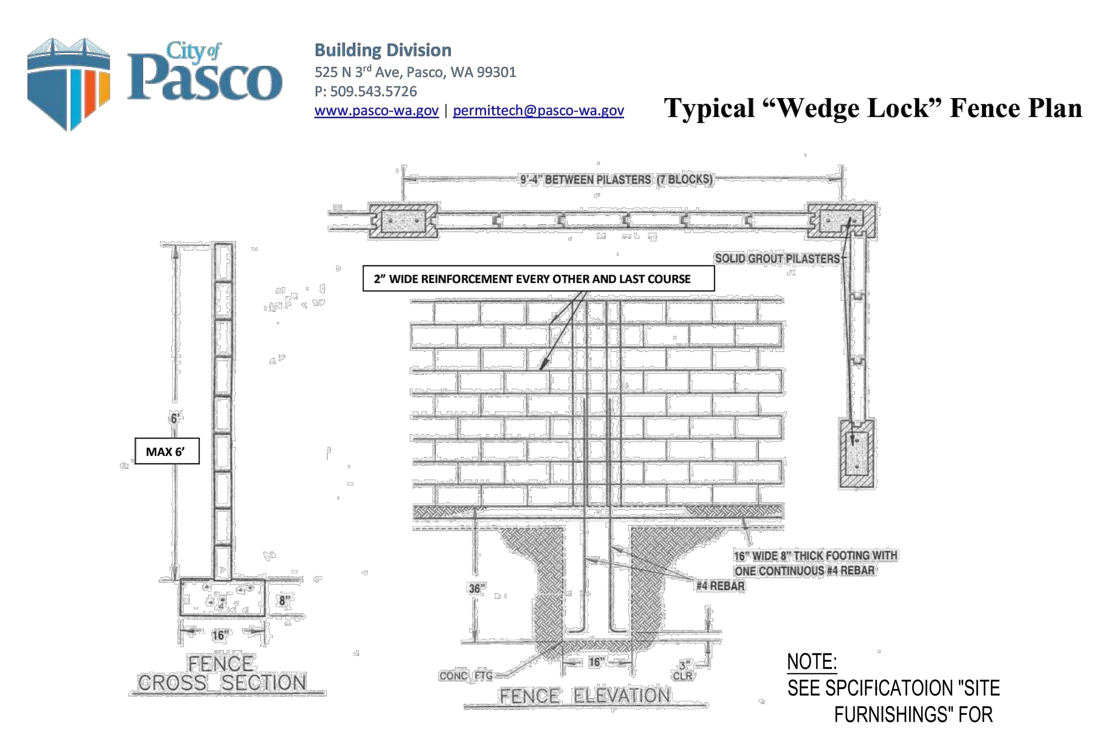
4 FLAGPOLE FOOTING
Scale 1/2" = 1'-0"



NOTE: ALL CONCRETE TO BE BROOM-FINISHED. SEE SPECIFICATION 03 35 19 "INTEGRALLY COLORED CONCRETE FINISHING"

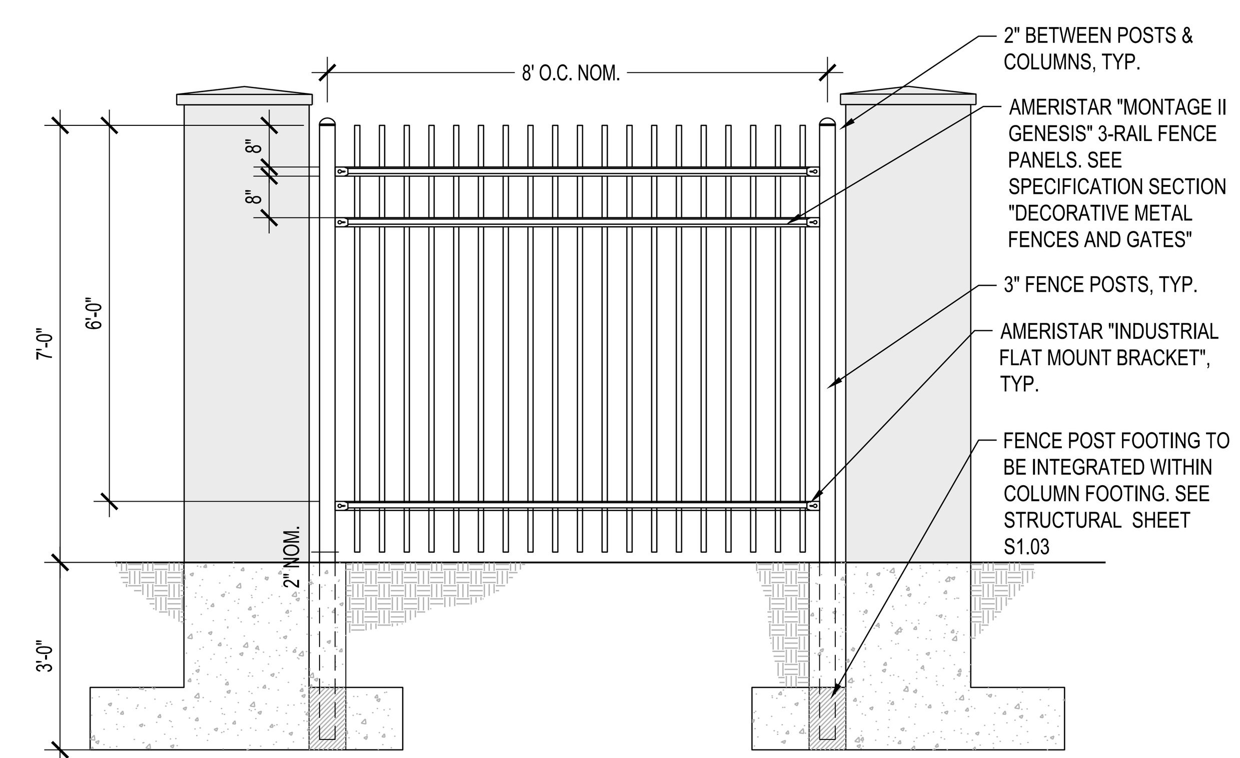
ALL DIMENSIONS SHOWN ARE TYPICAL

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



NOTE:
SEE SPCIFICATOION "SITE FURNISHINGS" FOR MORE INFORMATION

6 WEDGE LOCK BLOCK FENCE WALL
NTS



NOTE:
SEE ARCH A4.02

9 DECORATIVE FENCE
NTS

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CHECKED BY: BW
JOB NUMBER: 23053
REVISIONS

PASCO SCHOOL DISTRICT #1

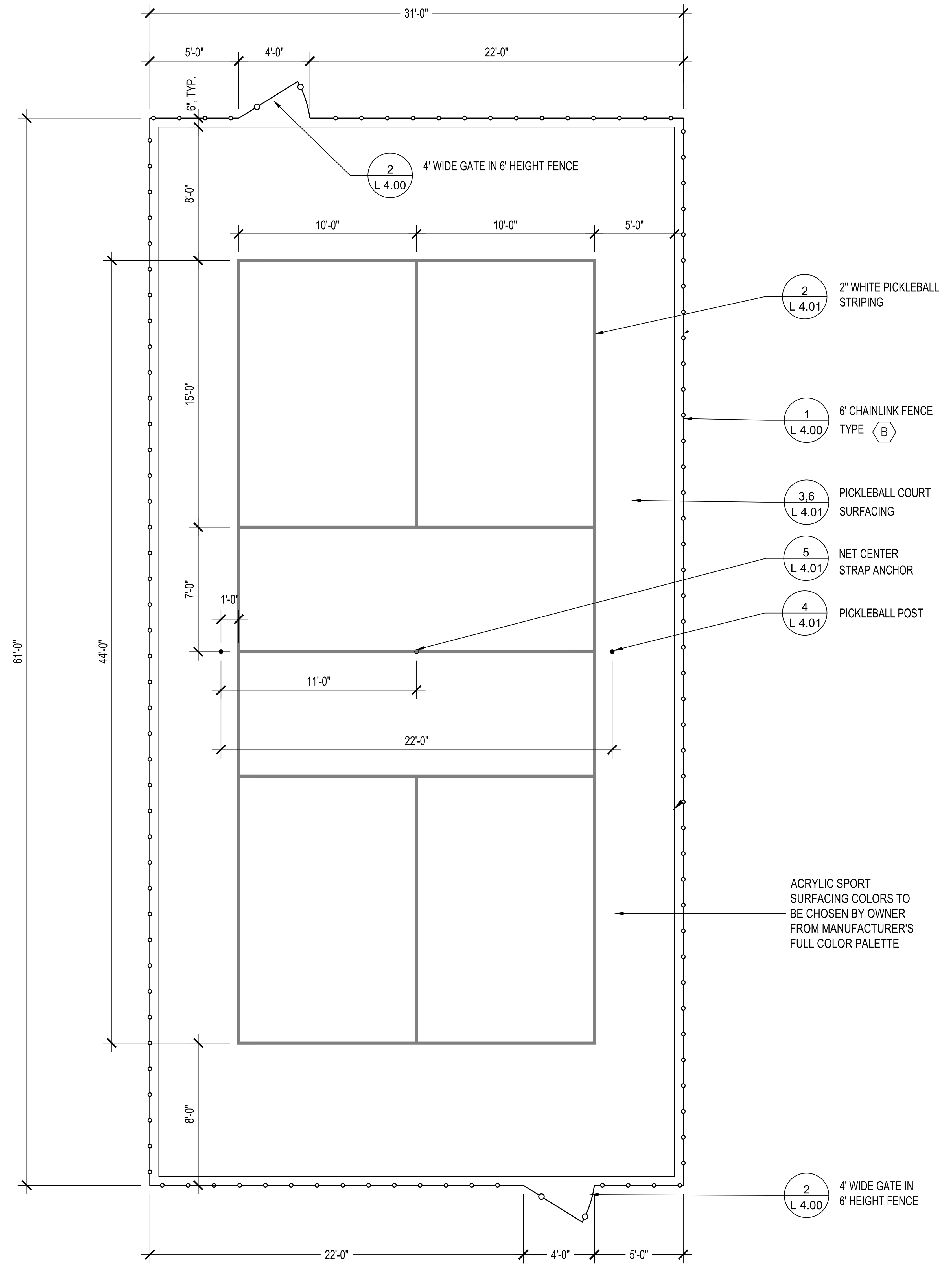
MacKay Sposito — ENERGY PUBLIC WORKS LAND DEVELOPMENT — www.mackaysposito.com

STATE OF WASHINGTON — BRYANA COLE — LANDSCAPE ARCHITECT — NO. 887 EXP 01/28/2024

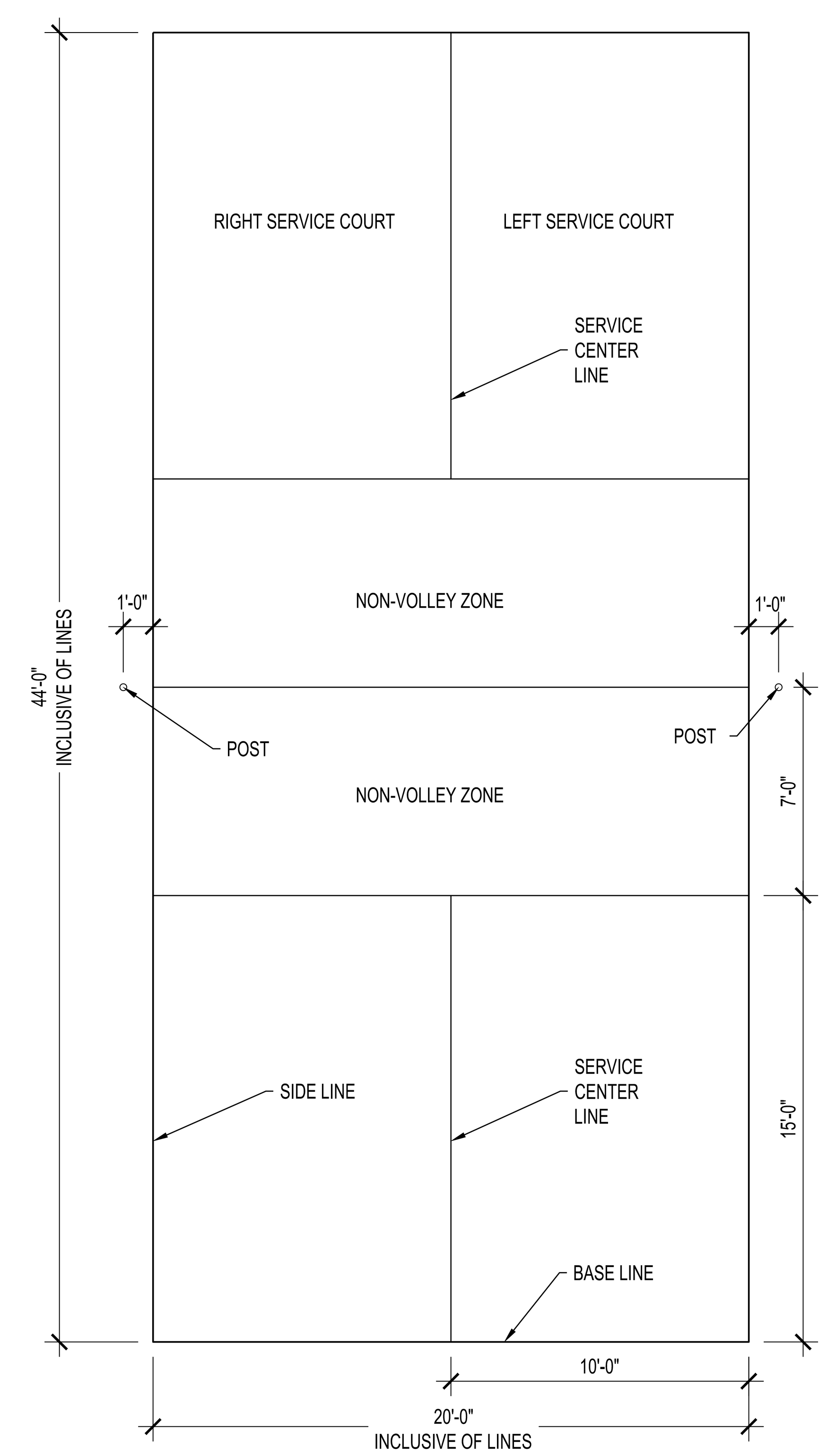
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023
SHEET NAME: SITE FURNISHING DETAILS
SHEET: L4.00

BID ALTERNATE 6: PICKLEBALL COURT

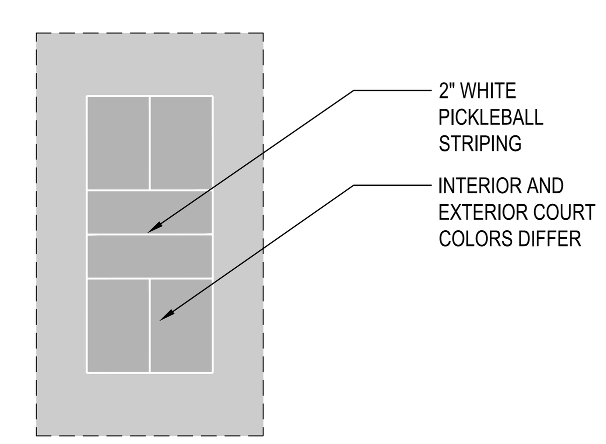


1 PICKLE BALL COURT LAYOUT
Scale 1/4" = 1'-0"

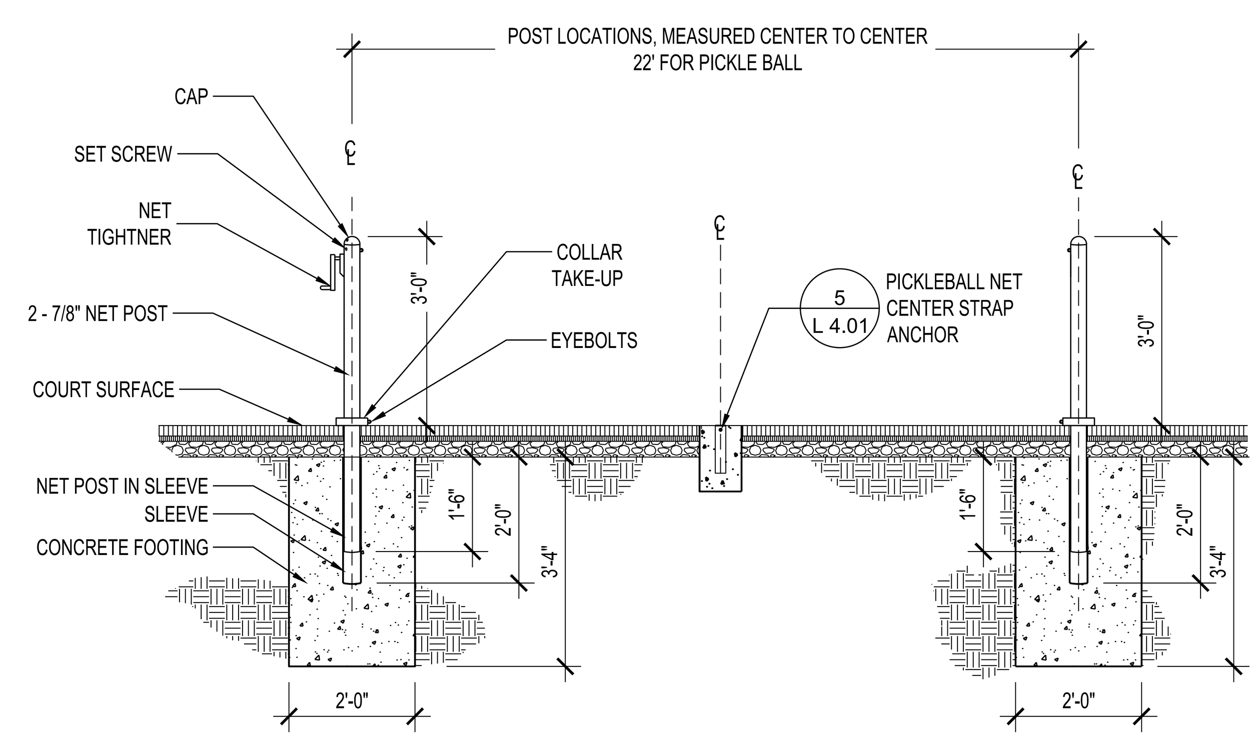


2 PICKLE BALL COURT STRIPING LAYOUT
Scale 1/4" = 1'-0"

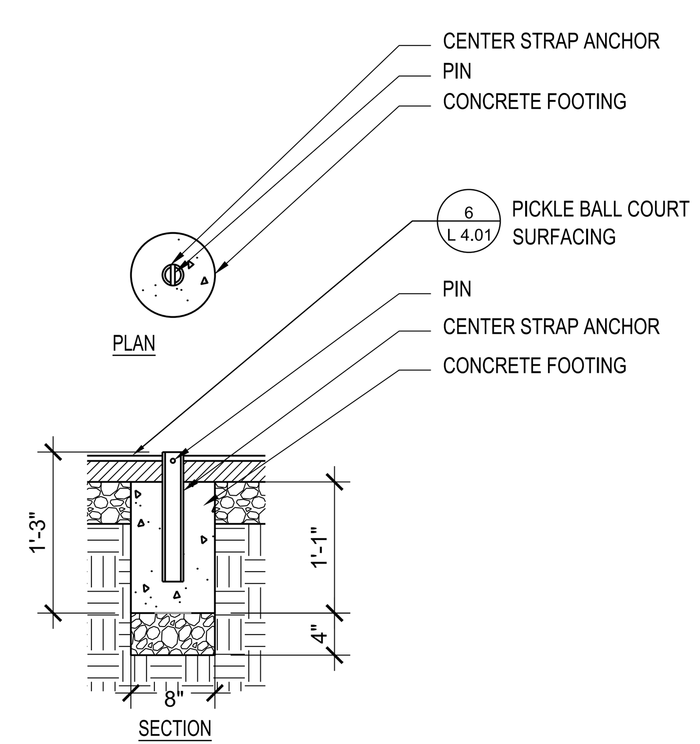
NOTES:
1. COLORS TO BE CHOSEN BY OWNER FROM MANUFACTURER'S FULL COLOR CHART



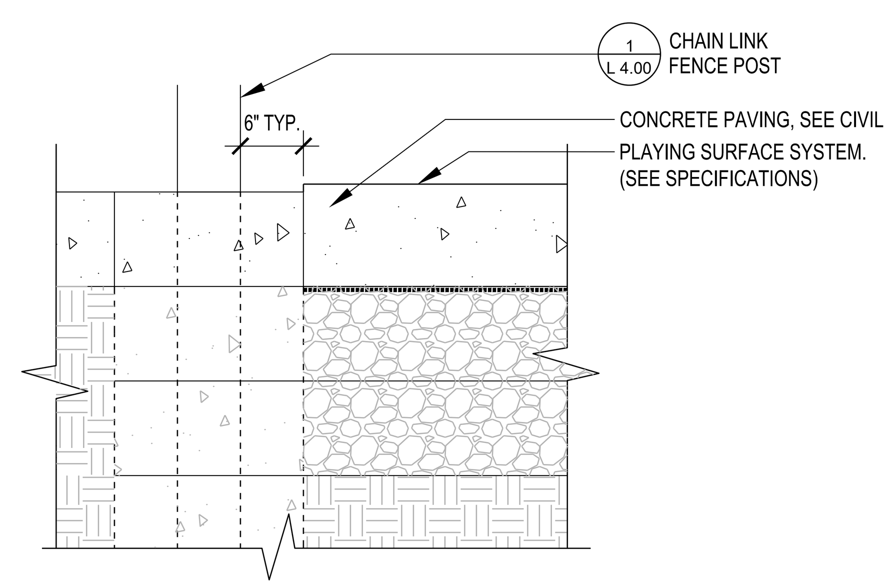
3 PICKLE BALL COURT COLOR KEY
SCALE: NTS



4 PICKLE BALL POST- SECTION
SCALE: 1/2"=1'-0"



5 PICKLEBALL NET CENTER STRAP ANCHOR
SCALE: 1" = 1'-0"



6 PICKLE BALL COURT SURFACING
SCALE: 1 1/2" = 1'-0"

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

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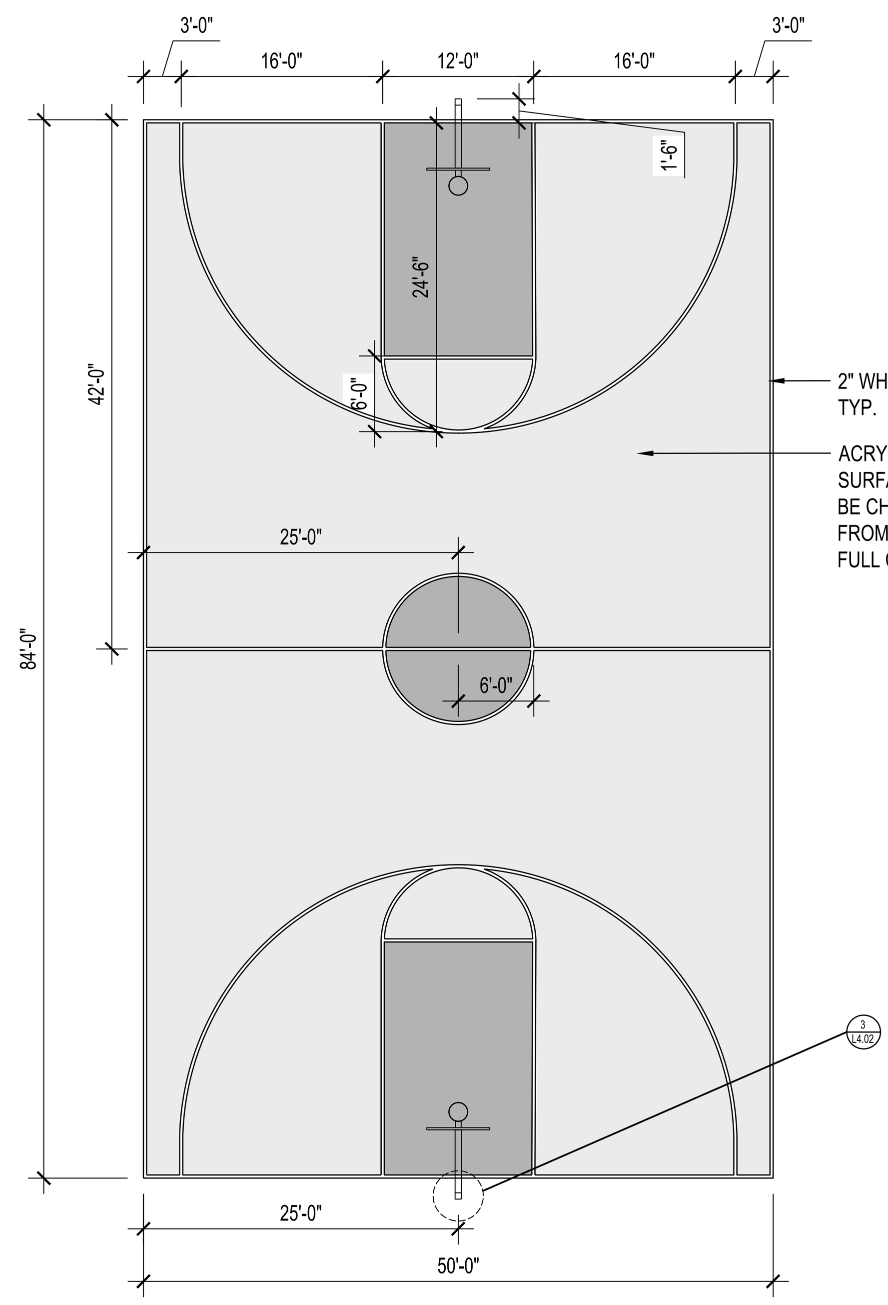
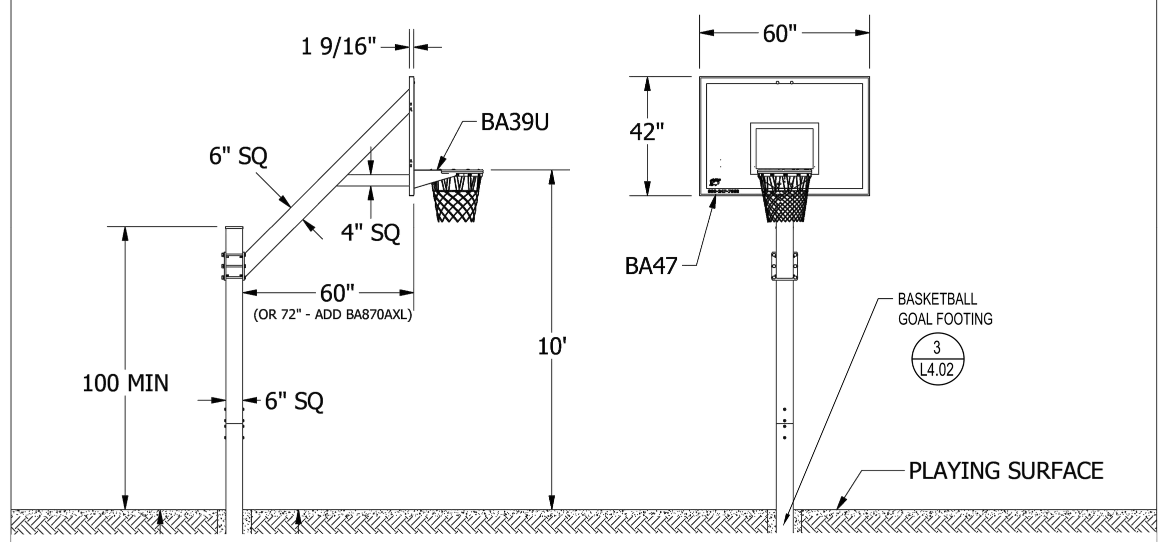
STATE OF WASHINGTON — BRYANA COLE — LANDSCAPE ARCHITECT

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023
SHEET NAME: SITE FURNISHING DETAILS
SHEET: L4.01



1 BASKETBALL COURT STRIPING
Scale 1" = 10'-0"



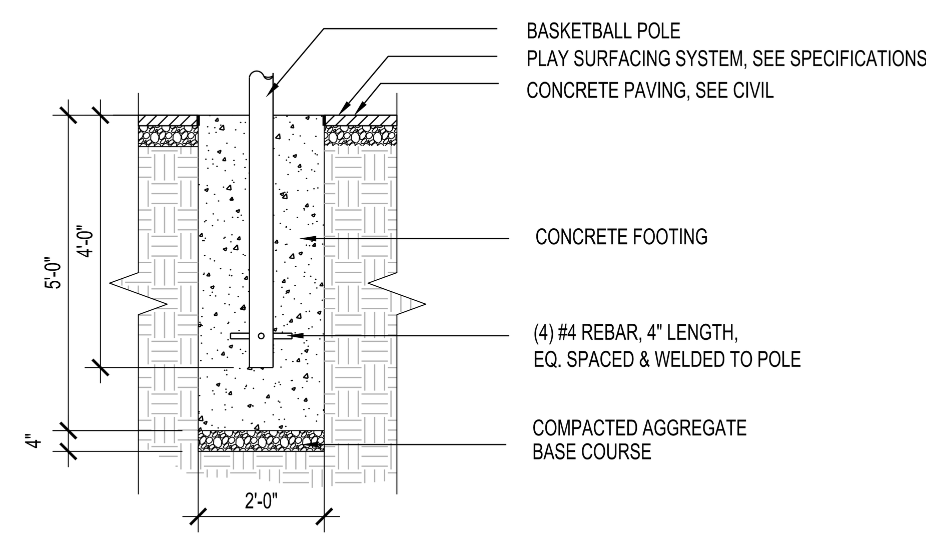
Pole assembly shall be constructed of 6" square, 3/16" wall structural steel tube suitable for a 39" in-ground installation. Pole shall be shipped in 2 pieces and attached in the middle by means of two 3/8" x 3" x 12" steel bar, and eight 1/2" x 3/4" button head cap screws forming a single, straight, rigid pole. Connecting points shall be covered by pole padding if padding is included in the system. 45° extension arm shall be 6" square, 3/16" wall structural tube with a 4" square, 1/8" wall steel tube horizontal support and 1/4" thick steel backboard support plate. Pole shall be designed so that rim mounts directly to pole to minimize stress on the backboard. Extension arm shall be mounted by means of 6 each 5/8" grade 8 bolts. Pole system shall provide a minimum setback from the front of pole to front of backboard of 60". Entire pole system shall have a textured black polyester powder coated finish and carry a lifetime functional warranty. Vertical pole shall be capped to keep out rain. Backboard shall be constructed of formed and welded steel with a 42" x 60" rectangular playing surface. Skin shall be 12 ga. mild steel and rear structure shall be 7 ga. and 10 ga. steel. All edges of the skin shall be formed in such a way that no shear edges are exposed. Boards with exposed shear edges shall not be considered equal. The backboard shall be coated with a white polyester powder coated finish and have an official-sized orange shooter's square. Backboards shall carry an unconditional lifetime functional warranty. Rim shall consist of two 5/8" diameter high strength steel rings welded together at a minimum of six places. Back and side plates shall be 3/16" thick and be continuously welded. The net attachment system shall be of a continuous type constructed of 3/16" x 1" steel with punched net attachment slots suitable for nylon (included) or chain (optional) nets. Individual or continuous wire formed netlocks are not an acceptable equal. Rim shall have an unconditional lifetime warranty and orange powder coated finish. Installation to be completed in accordance to manufacturer's instructions. Do not scale drawings.
Entire system weight shall be 500#

PRODUCT SPECIFICATION
BA871-BK ULTIMATE™ PLAYGROUND BASKETBALL SYSTEM

REVISED 4/28/22 L.M.

603 L Street, Lincoln, NE 68508 - Phone: (800) 247-7668 - Fax: (800) 638-0698 - www.bisoninc.com - info@bisoninc.com

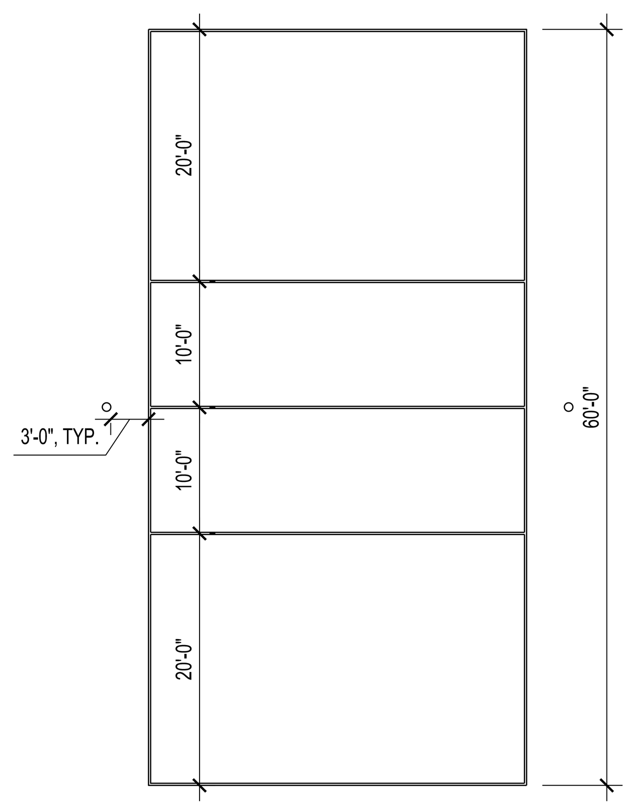
2 BASKETBALL GOAL
NTS



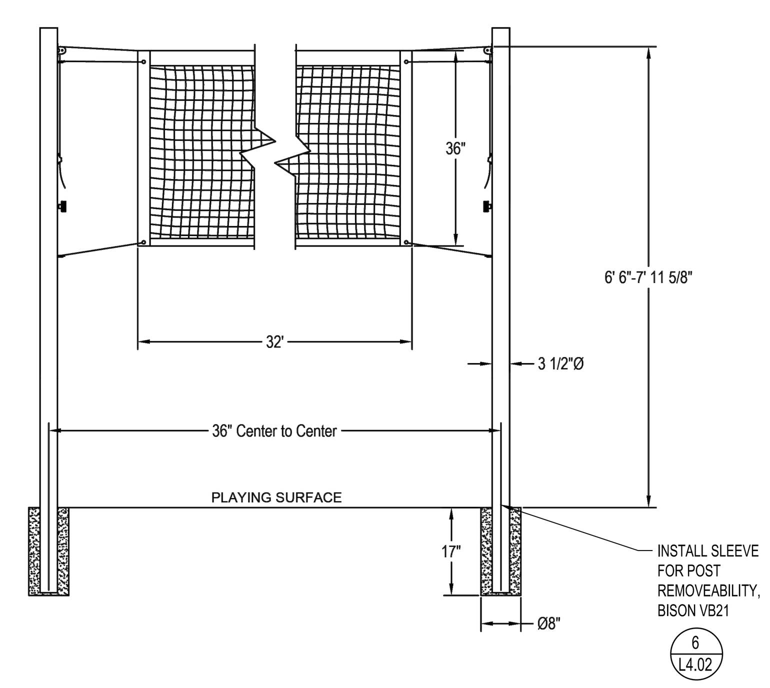
3 BASKETBALL GOAL FOOTING
SCALE: 1/2"=1'-0"

Know what's below. Call before you dig.

BID ALTERNATE 8: VOLLEYBALL COURT



4 VOLLEYBALL COURT STRIPING
Scale 1" = 10'-0"



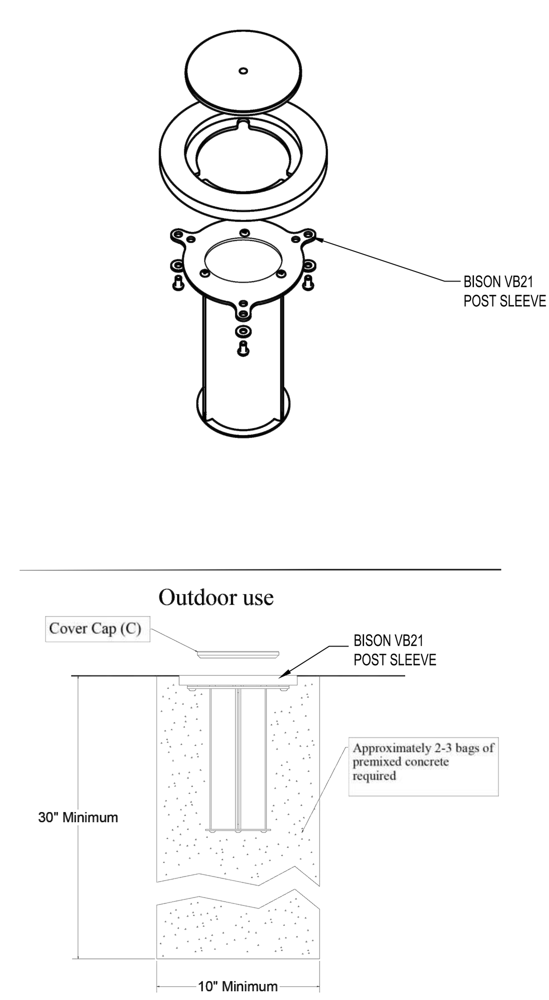
Posts shall be constructed of 3 1/2" diameter extruded aluminum with an integral track to facilitate net height adjustment from 6'6" to 7' 11 5/8". Posts shall have a powder coated finish and be suitable for burying directly into the ground or made removable using optional VB21 ground sleeves. 36" high x 32' long net shall be attached to a slider bar that shall raise and lower in the post track to adjust net. Top rope of net shall be tensioned by means of a pulley and rope cleat. Installation to be completed in accordance to manufacturer's instructions. Do not scale drawings. System shall have a 2-year limited warranty and weigh 110# each.

PRODUCT SPECIFICATION
SVB2000A ALUMINUM RECREATIONAL VOLLEYBALL SYSTEM

REVISED 7/1/17

603 L Street, Lincoln, NE 68508 - Phone: (800) 247-7668 - Fax: (800) 638-0698 - www.bisoninc.com - info@bisoninc.com

5 VOLLEYBALL NET & POSTS
NTS



6 SLEEVE FOR REMOVEABLE VOLLEYBALL POST
NTS

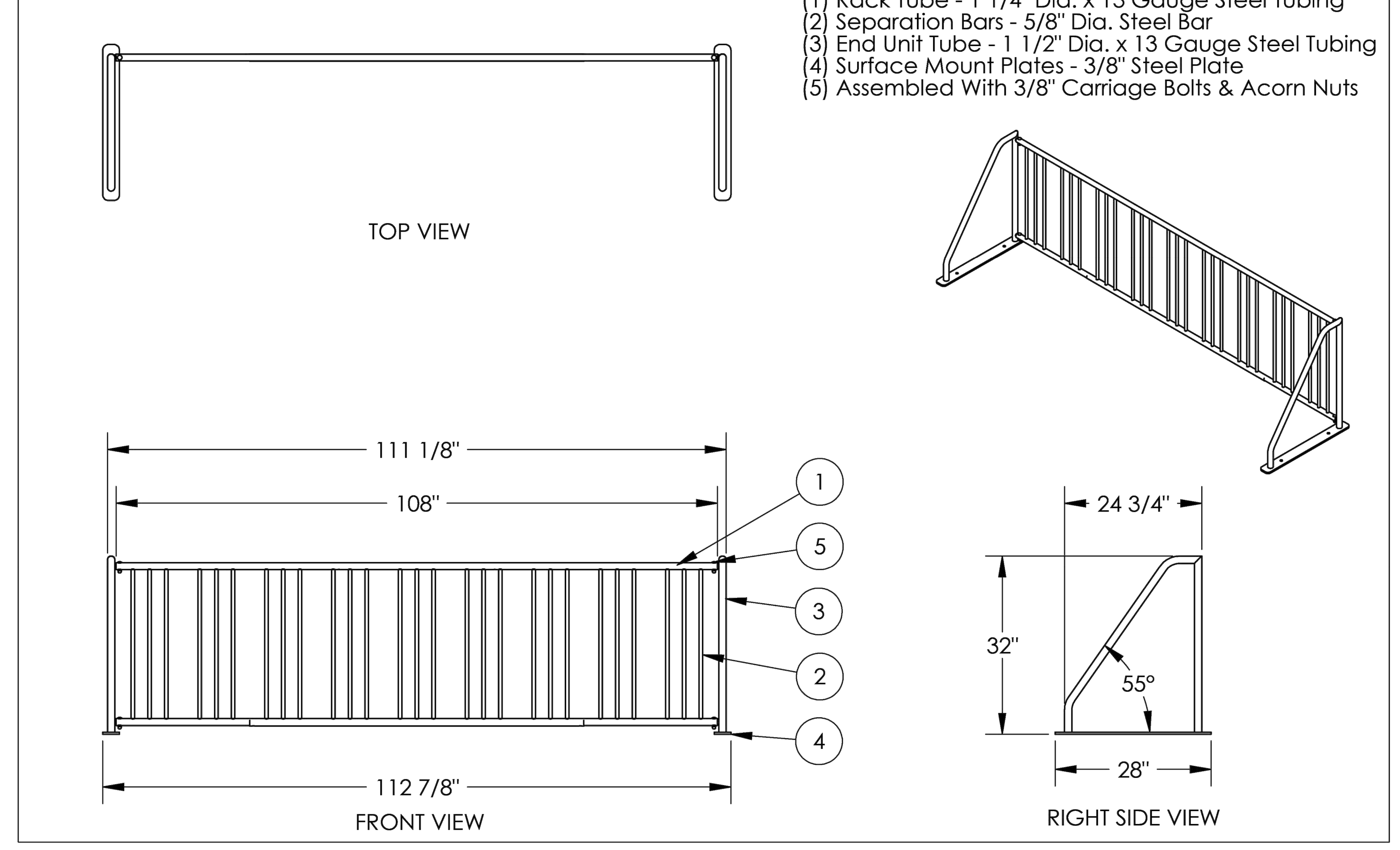
SITESCAPES P.O. Box 22326 Lincoln, NE 68542

PF: 402/421-9464	WEBSITE: www.sitescapesonline.com
FX: 402/421-9479	E-MAIL: info@sitescapesonline.com

TITLE	PRODUCT NO.	INCH TOLERANCES U.O.S.	
CLASSIC BIKE RACK	CL1-10	FRACTION-- ±1/16" ANG----------- ±1°	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES, INC. IS PROHIBITED.

*Available in powder coat and DuraCoat finishes

MATERIALS LIST:
(1) Rack Tube - 1 1/4" Dia. x 13 Gauge Steel Tubing
(2) Separation Bars - 5/8" Dia. Steel Bar
(3) End Unit Tube - 1 1/2" Dia. x 13 Gauge Steel Tubing
(4) Surface Mount Plates - 3/8" Steel Plate
(5) Assembled With 3/8" Carriage Bolts & Acorn Nuts



NOTE: SURFACE MOUNT TO CONCRETE PAVING WITH ½" x 4-5" STAINLESS STEEL ANCHOR BOLTS

7 BIKE RACK
NTS

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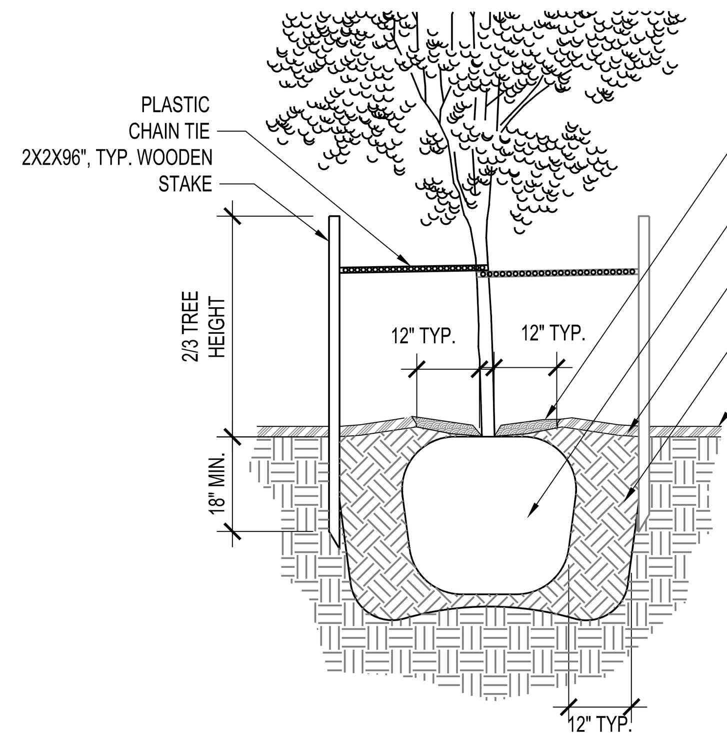
STATE OF WASHINGTON
BRYANA COLE
NO. 687 EXP. 01/26/2024
LANDSCAPE ARCHITECT

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

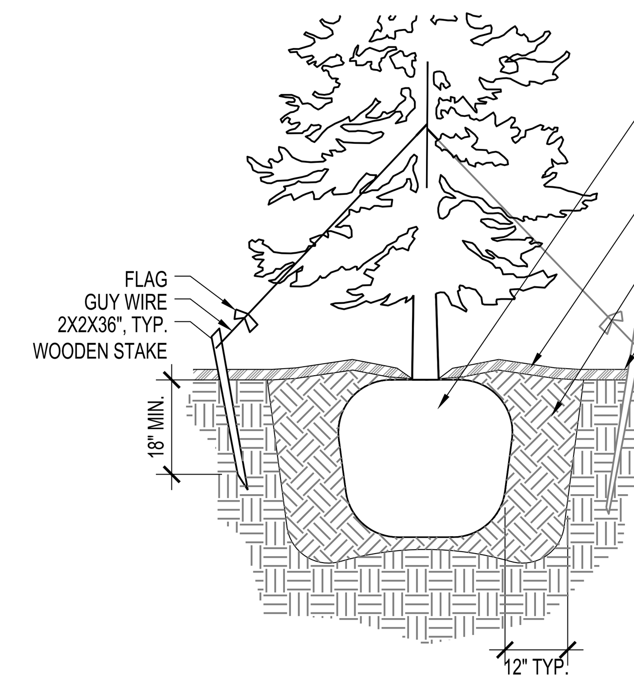
SHEET NAME
SITE FURNISHING DETAILS

SHEET
L4.02



NOTES:
1. ROOTBALL CROWN TO BE FLUSH WITH FINISH GRADE.
2. REMOVE PLANT FROM CONTAINER OR REMOVE TWINE AND BURLAP FROM TOP 1/2 OF ROOT BALL.
3. WHEN PLANTING ON A SLOPE FINISH GRADE SHALL MATCH PREVIOUS GRADE EXCEPT IN AREAS OF COMPACTED FILL AND TOP OF ROOTBALL.
4. USE TWO WOODEN STAKES PER TREE, EQUALLY SPACED. REMOVE ALL SUPPORTS WITH IN 1 YEAR FROM PLANTING.

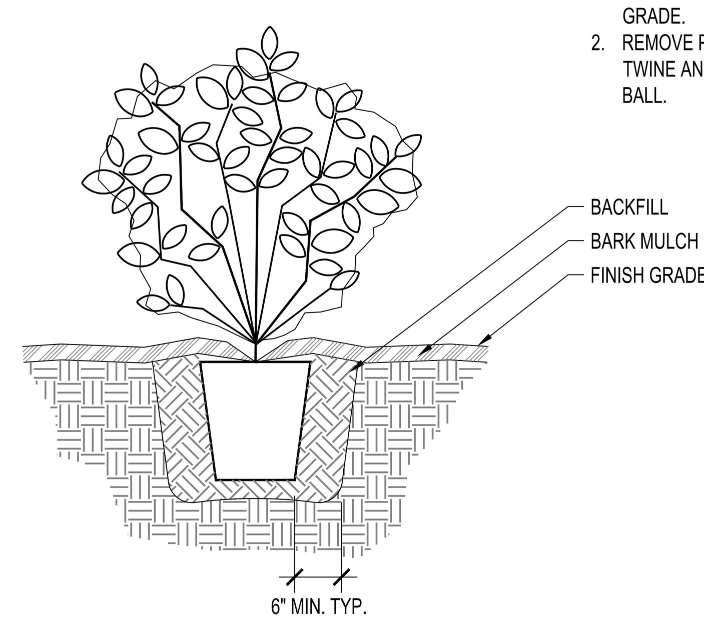
1 DECIDUOUS TREE PLANTING
SCALE: 1/2"=1'-0"



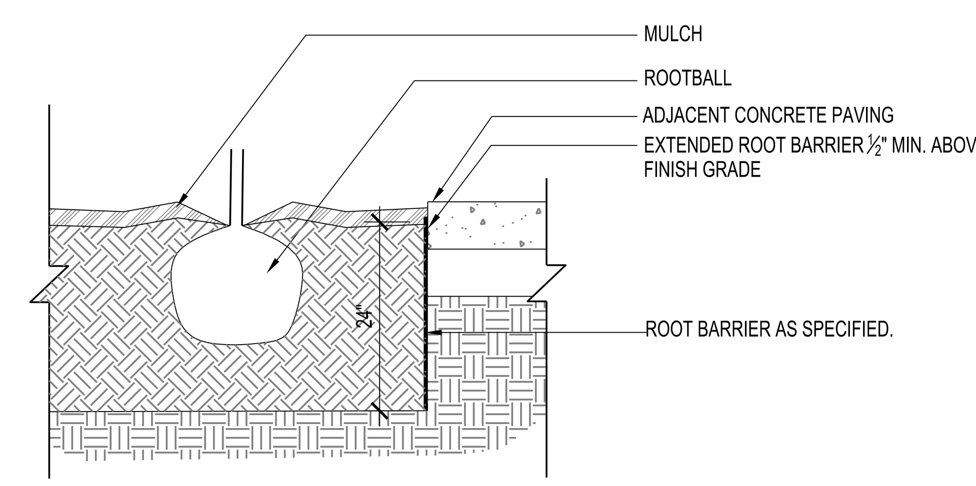
NOTES:
1. ROOTBALL CROWN TO BE FLUSH WITH FINISH GRADE.
2. REMOVE PLANT FROM CONTAINER OR REMOVE TWINE AND BURLAP FROM TOP 1/2 OF ROOT BALL.
3. WHEN PLANTING ON A SLOPE FINISH GRADE SHALL MATCH PREVIOUS GRADE EXCEPT IN AREAS OF COMPACTED FILL AND TOP OF ROOTBALL.
4. USE THREE WOODEN STAKES PER TREE, EQUALLY SPACED. PROVIDE RUBBER COLLAR TO PREVENT INJURY TO THE BARK OF TREE. REMOVE ALL SUPPORTS WITH IN 1 YEAR FROM PLANTING.

2 EVERGREEN TREE PLANTING
SCALE: 1/2"=1'-0"

NOTES:
1. ROOTBALL CROWN TO BE FLUSH WITH FINISH GRADE.
2. REMOVE PLANT FROM CONTAINER OR REMOVE TWINE AND BURLAP FROM TOP 1/2 OF ROOT BALL.

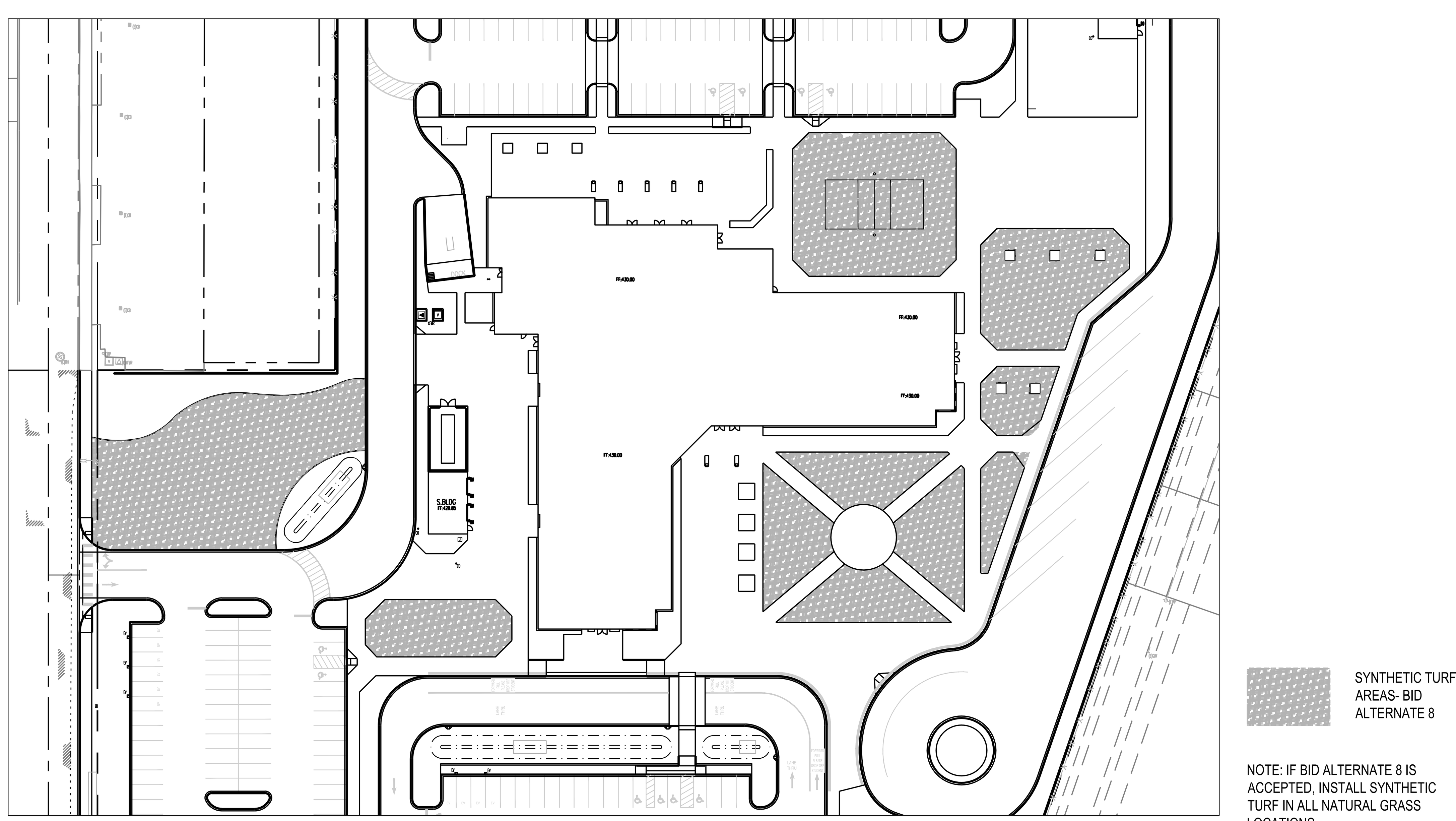


3 SHRUB/GROUNDCOVER PLANTING
SCALE 3/4" = 1'-0



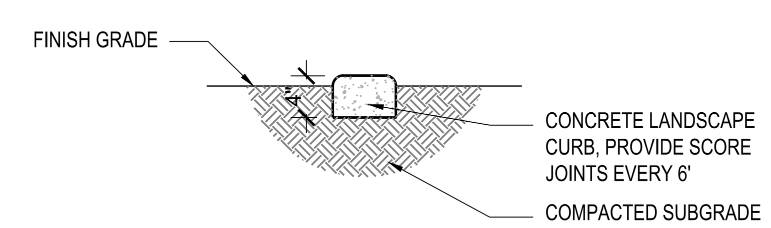
4 ROOT BARRIER
SCALE 3/4" = 1'-0

BID ALTERNATE 8: SYNTHETIC TURF



NOTE: IF BID ALTERNATE 8 IS ACCEPTED, INSTALL SYNTHETIC TURF IN ALL NATURAL GRASS LOCATIONS

5 SYNTHETIC TURF AREAS
NTS



6 LANDSCAPE CURBING
SCALE: 1" = 1'-0"

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JOB NUMBER
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REVISIONS

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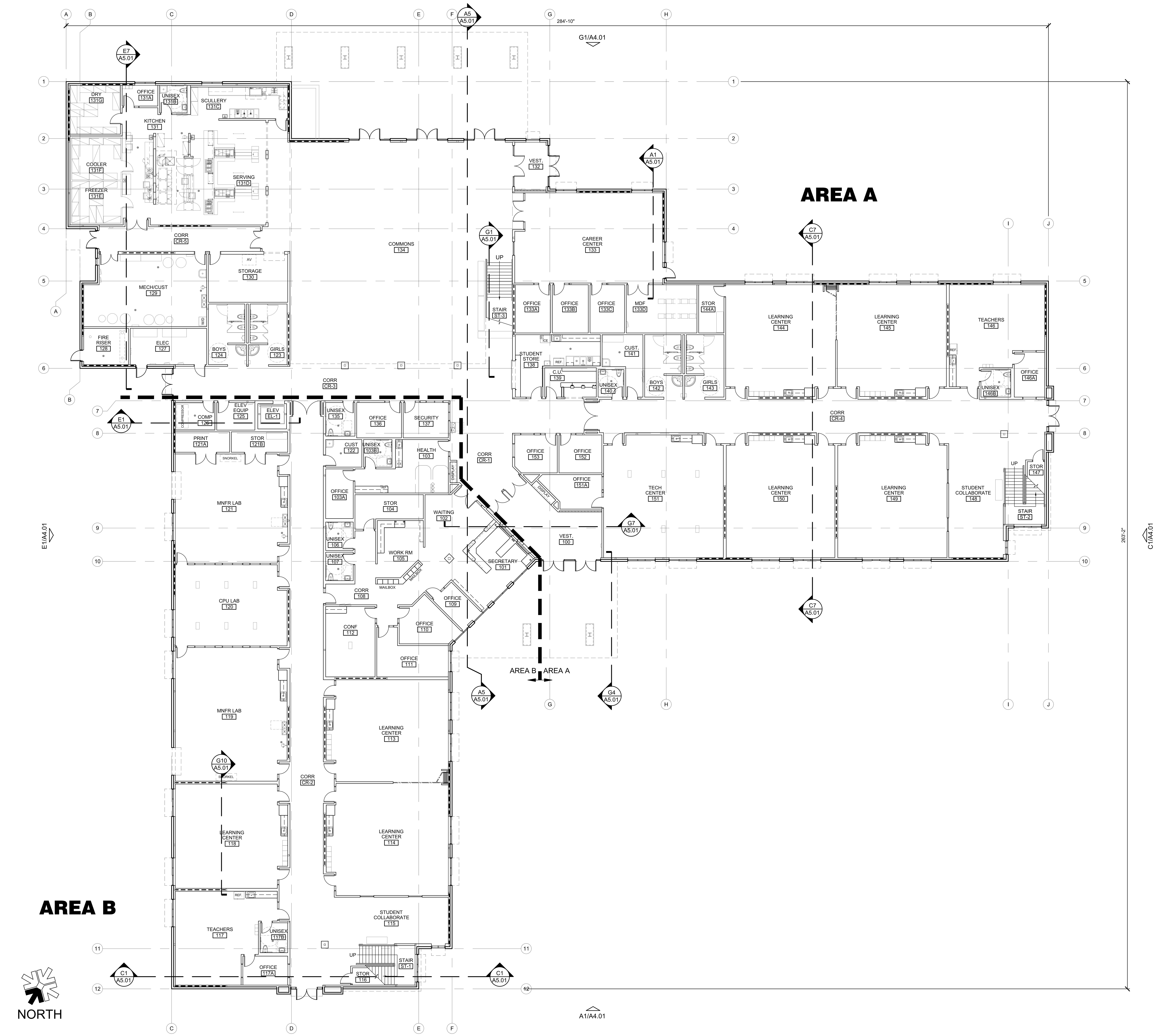
STATE OF WASHINGTON
BRYANA COLE
LANDSCAPE ARCHITECT

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
PLANTING DETAILS

SHEET
L4.03



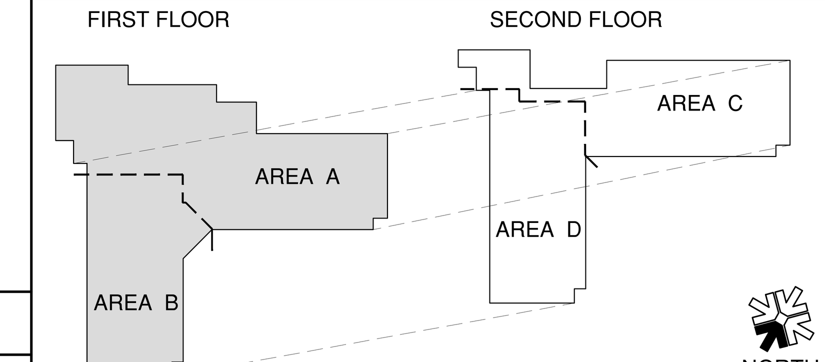
A1 COMPOSITE FIRST FLOOR PLAN

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

SHEET NOTES

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.

KEYPLAN



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REVISIONS

PASCO SCHOOL DISTRICT #1

9354 REGISTERED ARCHITECT BRANDON D. WILM STATE OF WASHINGTON

PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

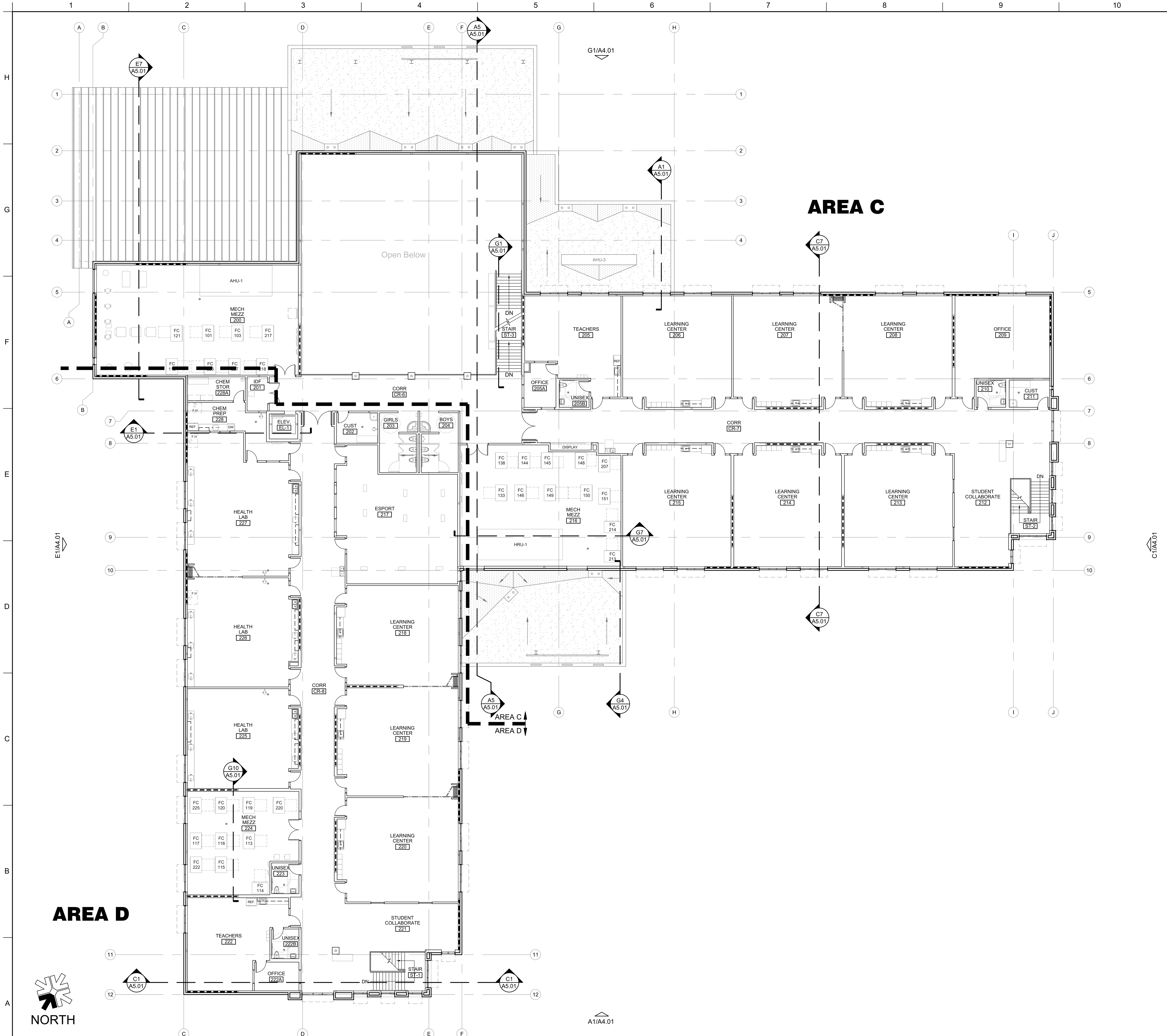
DATE 12/18/2023

SHEET NAME

COMPOSITE FIRST FLOOR PLAN

SHEET

A3.30a



SHEET NOTES

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.

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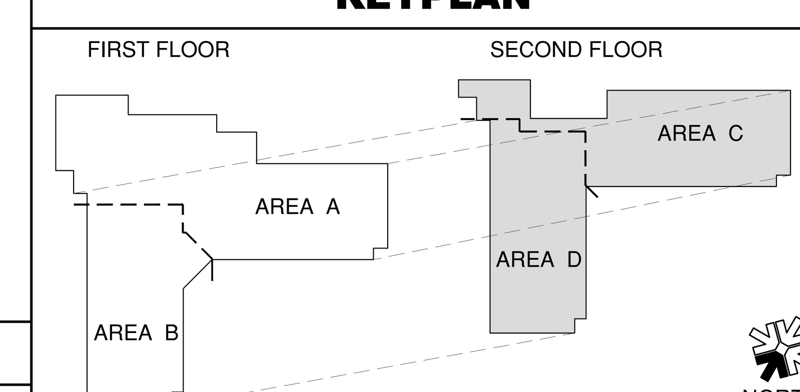
REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON
9354

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

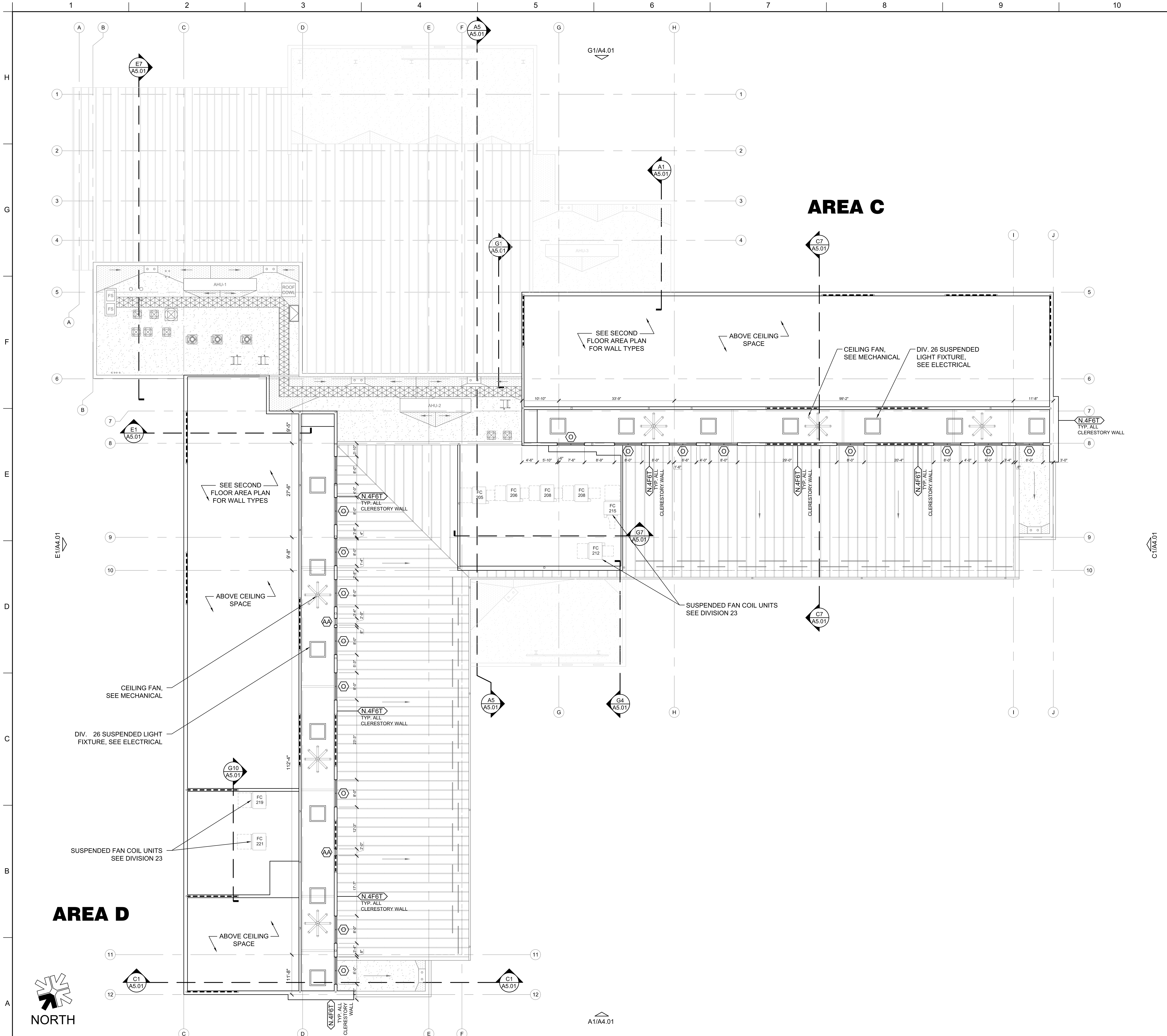
SHEET NAME
COMPOSITE SECOND FLOOR PLAN

KEYPLAN



SHEET
A3.30b

A1 COMPOSITE SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"



SHEET NOTES

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.

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BRANDON D. WILM
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

KEYPLAN

FIRST FLOOR | SECOND FLOOR
AREA A | AREA B | AREA C | AREA D
NORTH

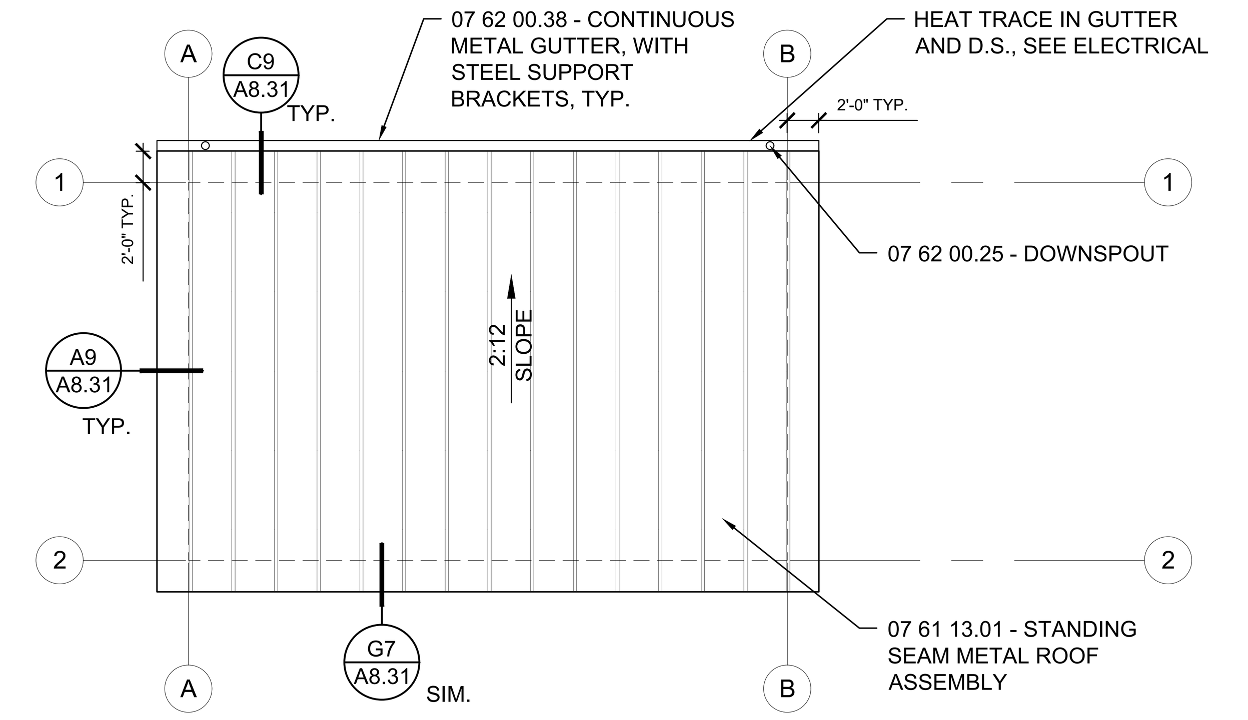
SHEET NAME
COMPOSITE SECOND UPPER FLOOR PLAN

SHEET
A3.30c

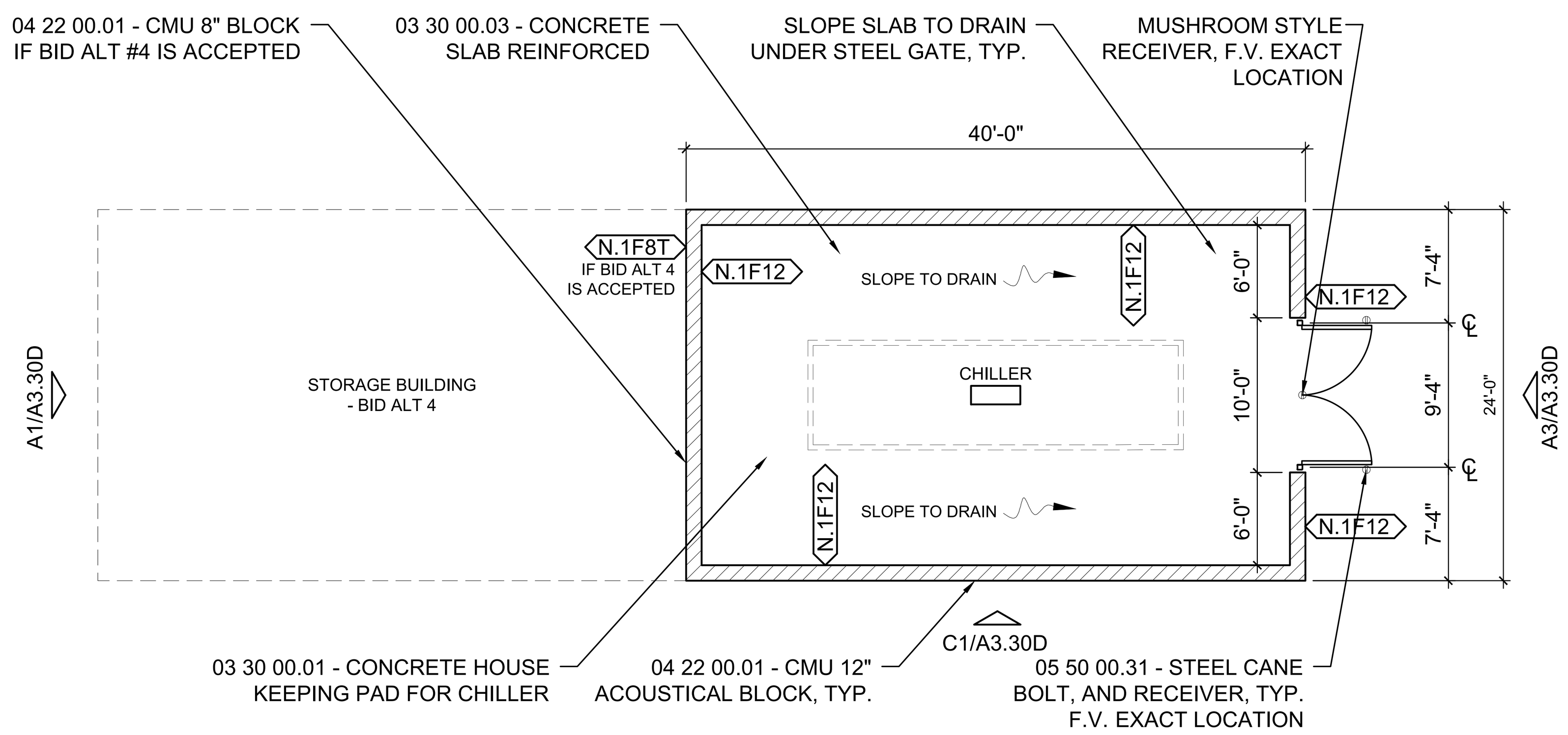
A1 COMPOSITE SECOND UPPER FLOOR PLAN
SCALE: 3/32" = 1'-0"

SHEET NOTES

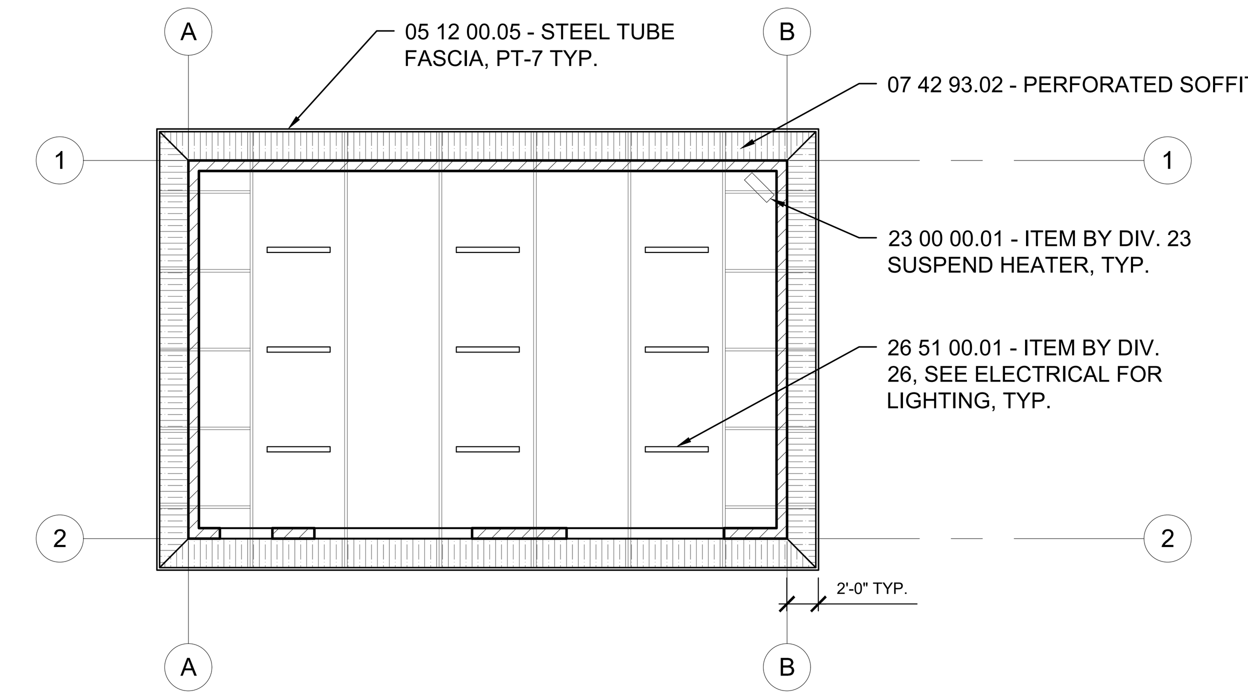
1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. PROJECT BID ALTERNATIVE #3 AND #4 ARE THE SAME BUILDING AT TWO DIFFERENT LOCATIONS
   - BID ALT #3 - MAINTENANCE BUILDING
   - BID ALT #4 - STORAGE BUILDING
3. REFERENCE SHEET G1.03 FOR EACH BUILDING LOCATION.



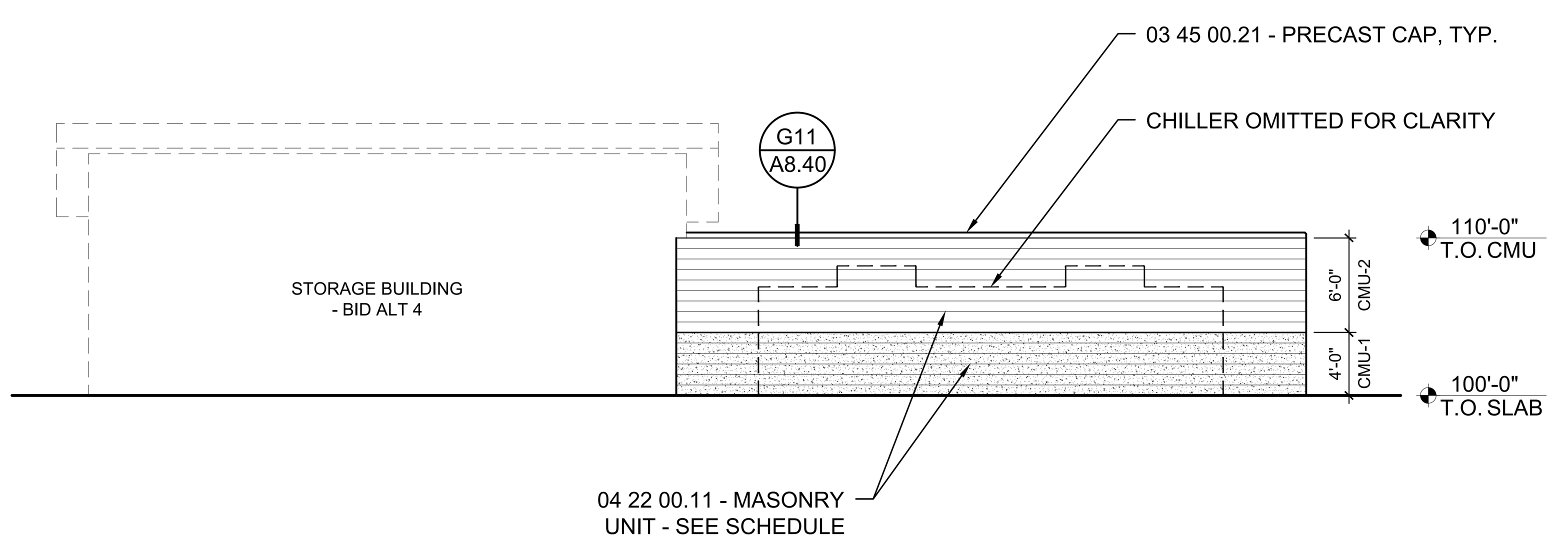
G9 ROOF PLAN FOR BOTH BLDGS - BID ALT #3 & 4
SCALE: 1/8" = 1'-0"



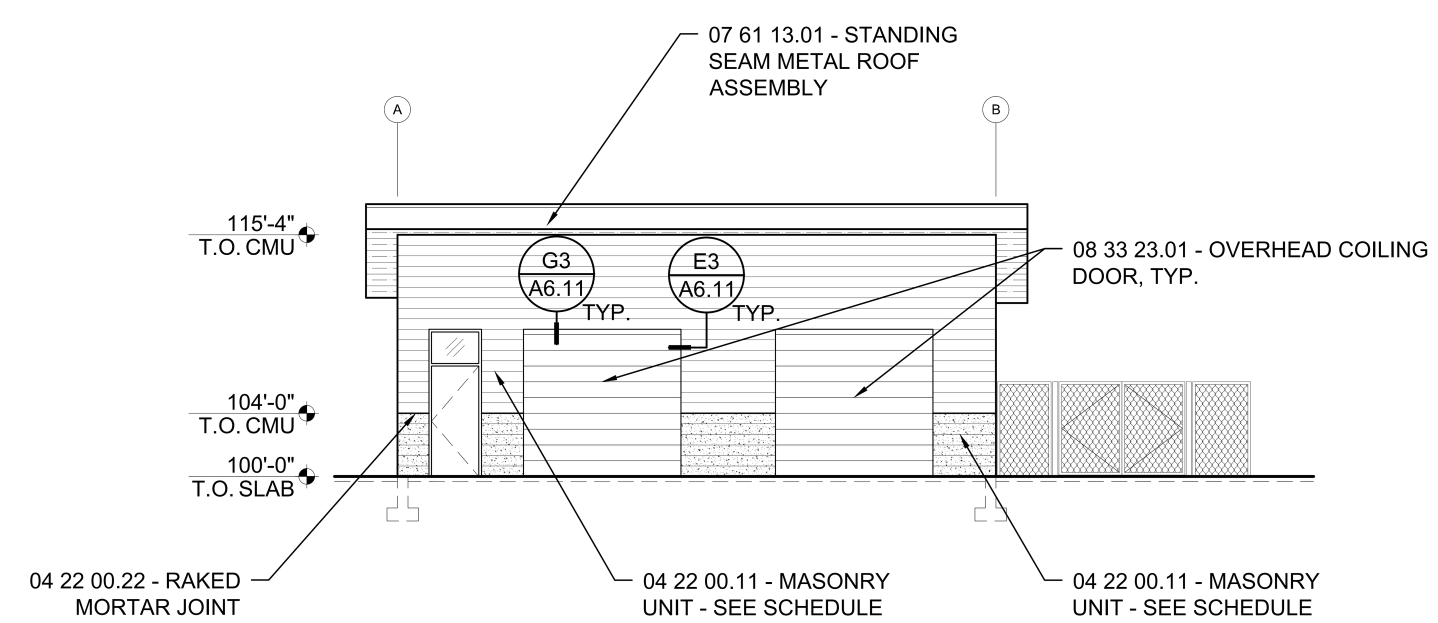
E1 CHILLER EMCLOSURE
SCALE: 1/8" = 1'-0"



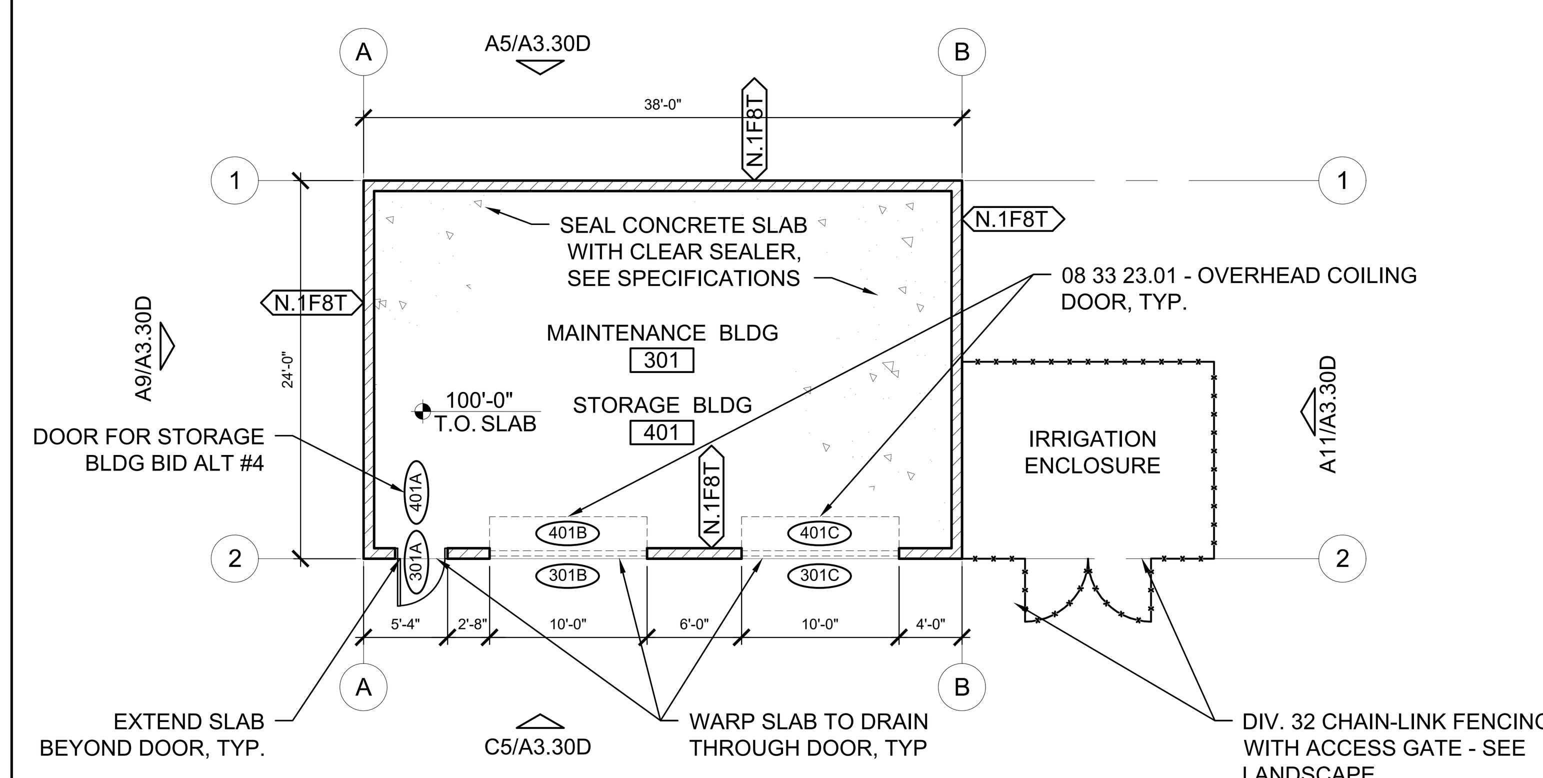
E9 RCP PLAN FOR BOTH BLDGS - BID ALT #3 & 4
SCALE: 1/8" = 1'-0"



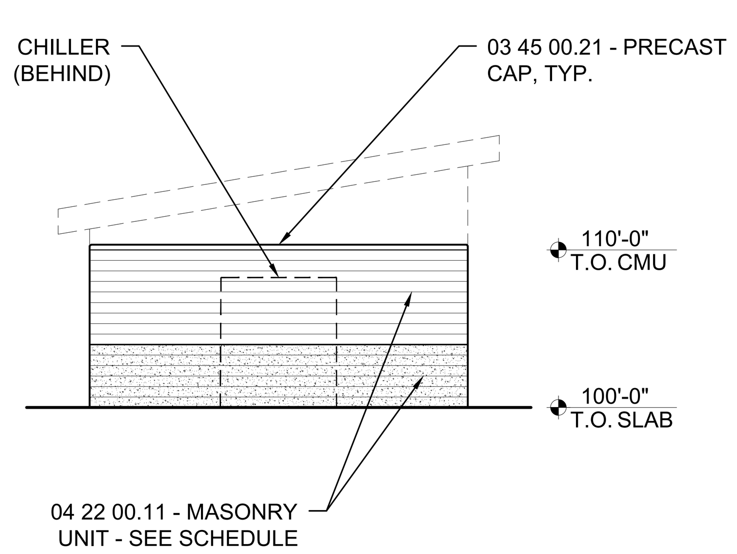
C1 CHILLER ELEVATION
SCALE: 1/8" = 1'-0"



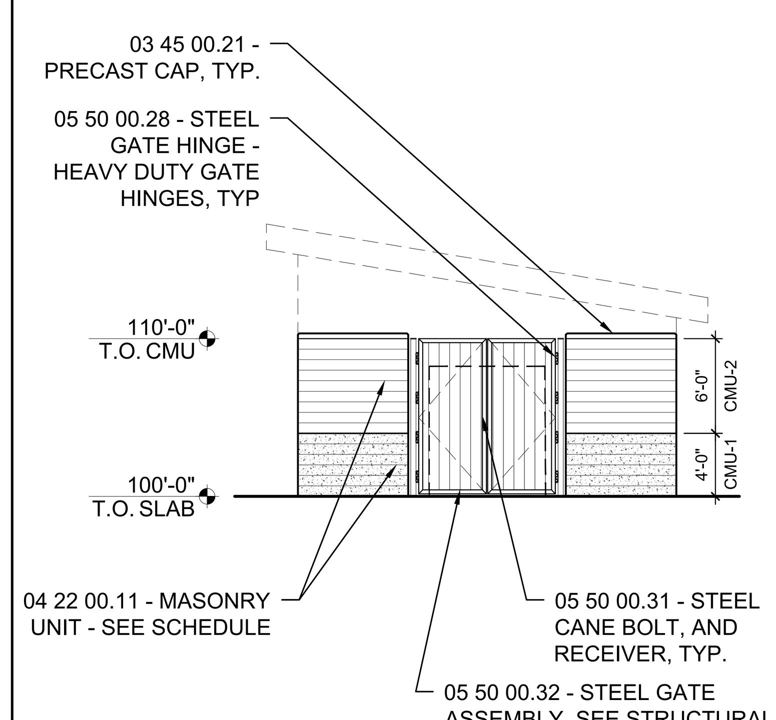
C5 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



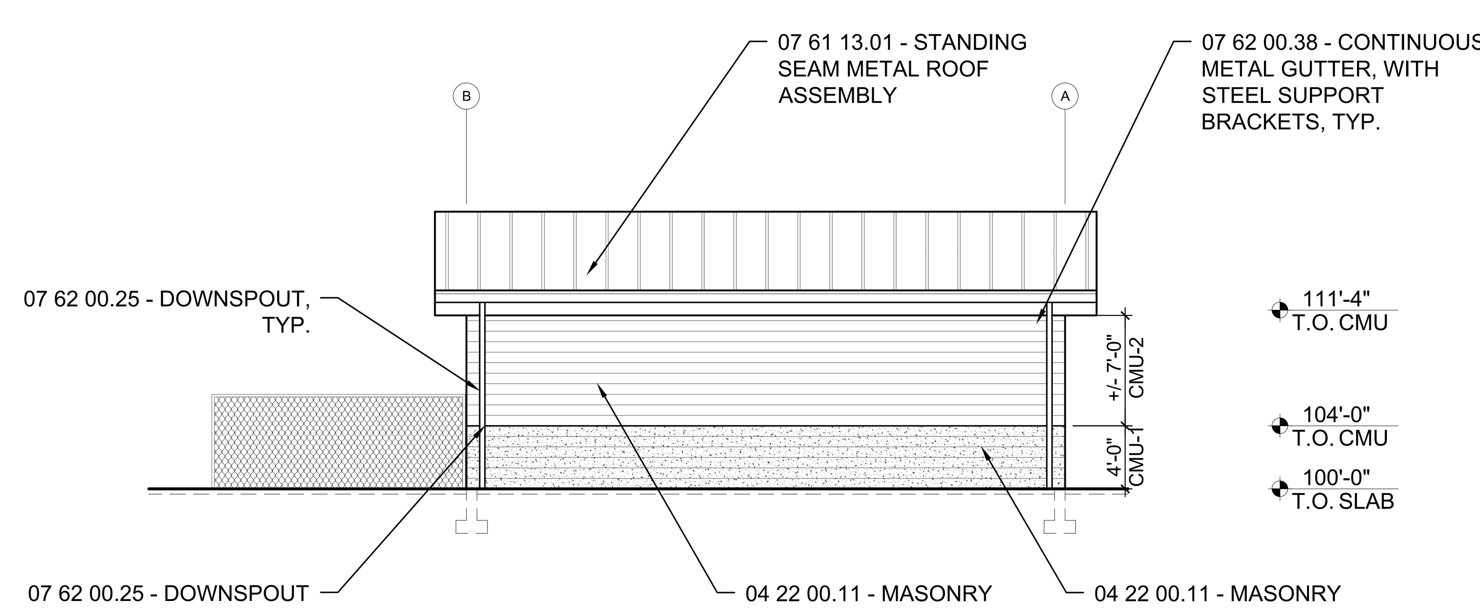
C9 FLOOR PLAN FOR BOTH BLDGS - BID ALT #3 & 4
SCALE: 1/8" = 1'-0"



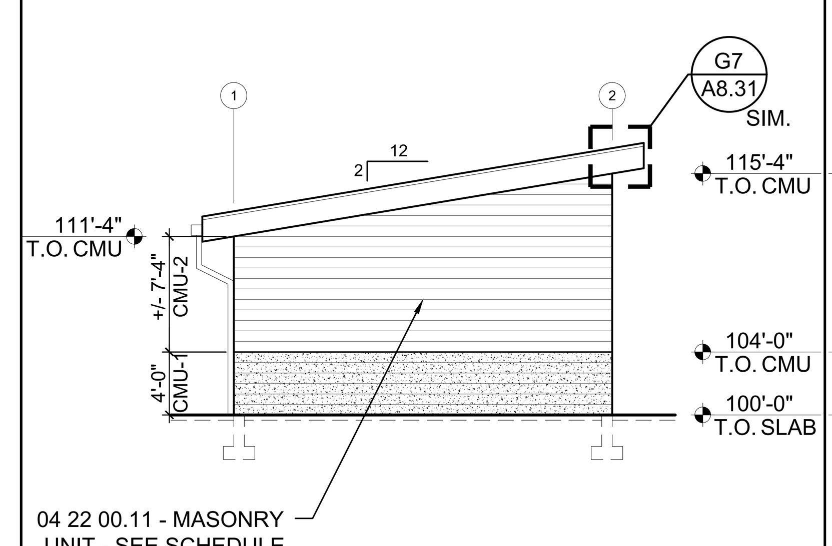
A1 CHILLER ELEVATION
SCALE: 1/8" = 1'-0"



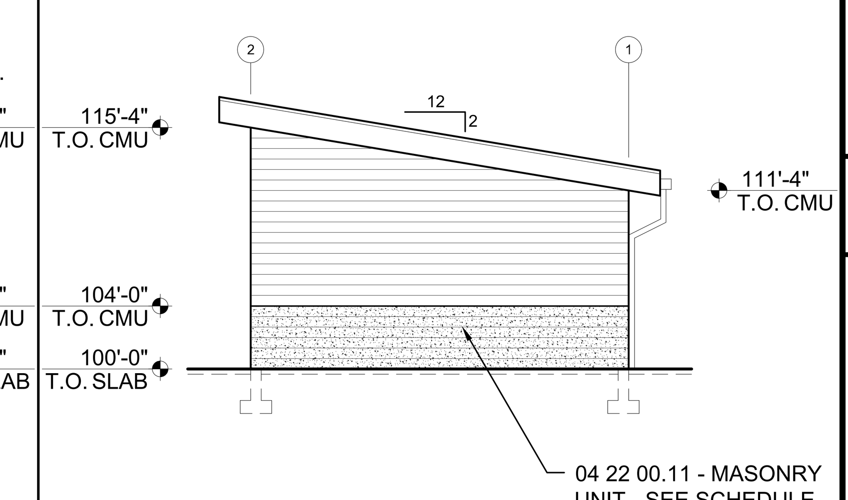
A3 CHILLER ELEVATION
SCALE: 1/8" = 1'-0"



A5 REAR ELEVATION
SCALE: 1/8" = 1'-0"



A9 END ELEVATION
SCALE: 1/8" = 1'-0"



A11 END ELEVATION
SCALE: 1/8" = 1'-0"

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PASCO SCHOOL DISTRICT #1

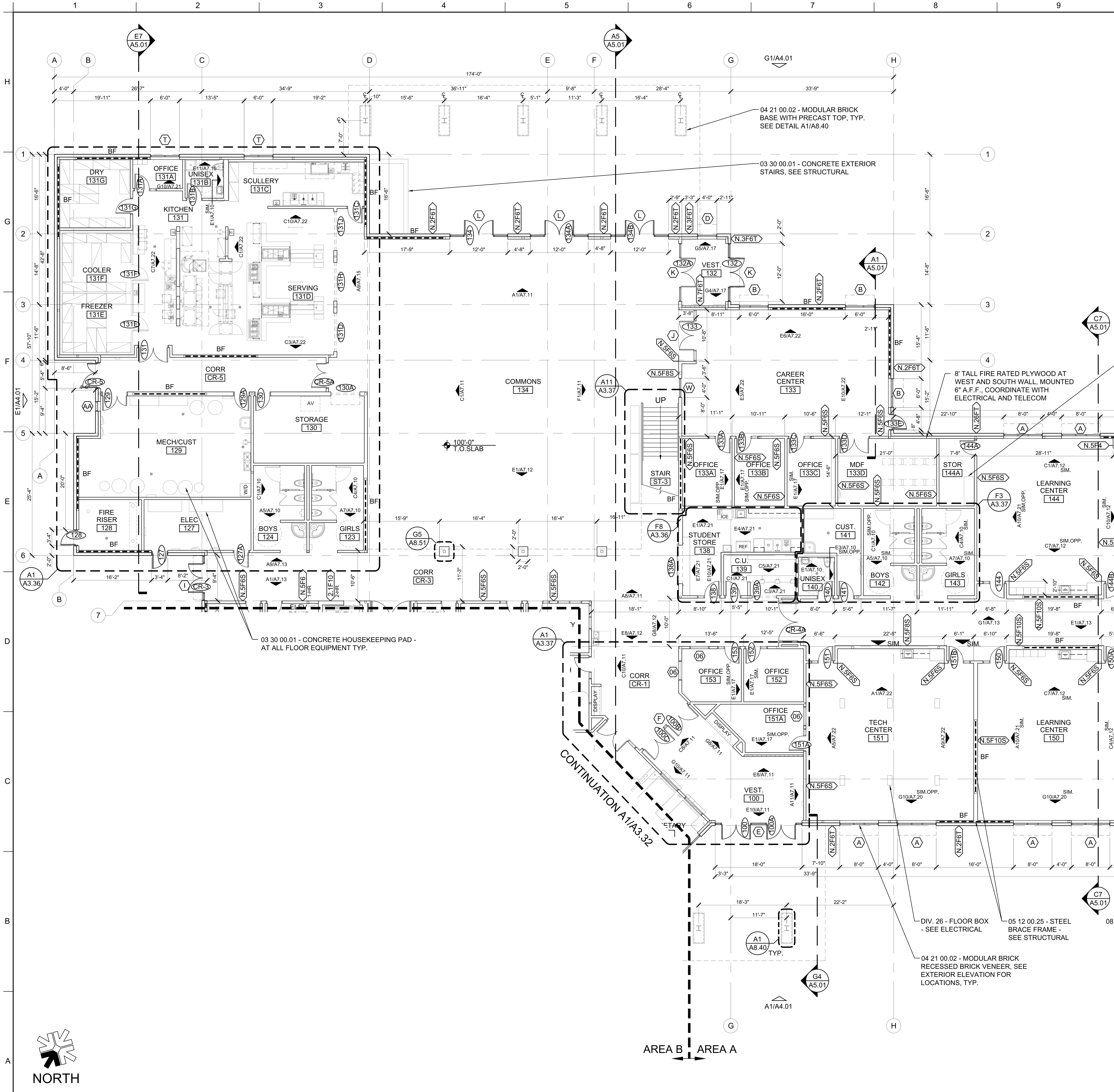
REGISTERED ARCHITECT 9354 BRANDON D. WILM STATE OF WASHINGTON 12/18/23

PASCO SCHOOL DISTRICT ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: CHIILER - MAINT. & STORAGE BLDG - BID ALT

SHEET: A3.30d



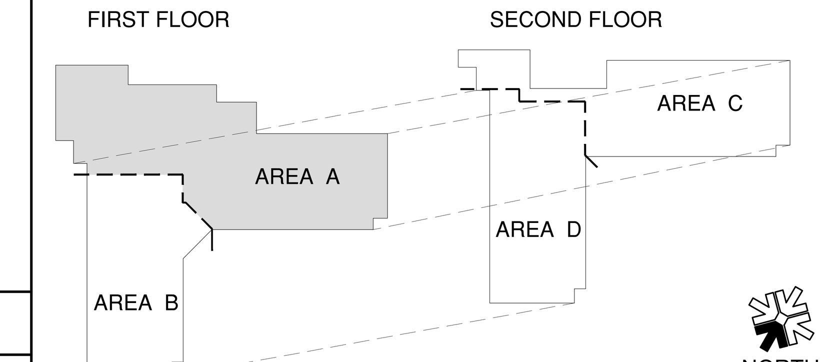
SHEET NOTES

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. PROVIDE SOLID WOOD BLOCKING AS REQUIRED TO SUPPORT WALL HUNG EQUIPMENT, GRAB BARS, RAILINGS AND OTHER ACCESSORIES TO REQUIRE SUPPORT. VERIFY LOCATIONS PRIOR TO INSTALLATION OF GYPSUM BOARD. SEE C5/A8.50 AND E5/A8.50.
3. DOORS AND CASED OPENINGS WITHOUT LOCATION DIMENSIONS ARE TO BE 3" FROM ADJACENT PARTITION.
4. DIMENSIONS ARE FROM FACE OF STUD OR FACE OF CONCRETE U.N.O.
5. INTERIOR WALL ASSEMBLIES SHALL BE FULL HEIGHT TO UNDERSIDE OF DECK ABOVE U.N.O.
6. INSTALL FULL HEIGHT AND WIDTH CEMENTITIOUS BACKER BOARD AT ALL TILE WALL LOCATIONS IN-LIEU OF GYP. BD. COORDINATE WITH INTERIOR ELEVATIONS AND FINISH SCHEDULE.
7. CONCEAL ALL EQUIPMENT, DEVICES AND PATHWAYS IN NEW CONSTRUCTION WITHIN PROJECT AREA.
8. COORDINATE MECHANICAL & ELECTRICAL EQUIPMENT BLOCK-OUT LOCATIONS & THRU-WALL PENETRATIONS FOR GYPSUM BOARD & CMU WALLS. SEE MECHANICAL & ELECTRICAL SHEET
9. SEE SHEETS A3.41-A3.42 FOR FLOOR FINISHES.
10. FLASH/WRAP ALL EXTERIOR OPENINGS THAT PENETRATE THE BUILDING ENVELOPE. SEE DETAIL G9/A6.10.
11. INSULATE ALL EXTERIOR WALLS. PROVIDE EXPANDING THERMAL FOAM AT CMU WALLS. SEE DETAIL G9/A8.40.
12. PROVIDE CMU CONTROL JOINTS AS NOTED ON EXTERIOR ELEVATION. REFERENCE DETAIL G7/A8.40.
13. PROVIDE INTERIOR CMU RAKE JOINTS AT ACCENT-WALL PAINT TRANSITION LOCATIONS. SEE INTERIOR ELEVATIONS.
14. SEE E11/A8.00 FOR WALL & PARTITION HEAD TYPES.
15. PROVIDE CONTINUOUS AIR BARRIER EXTENDING FROM SLAB TO ROOF AT ALL EXTERIOR WALLS. SEE A1/G1.01
16. COORDINATE COLUMN LOCATIONS WITH STRUCTURAL.

A1 **FIRST FLOOR PLAN - AREA A**

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

KEYPLAN



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1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

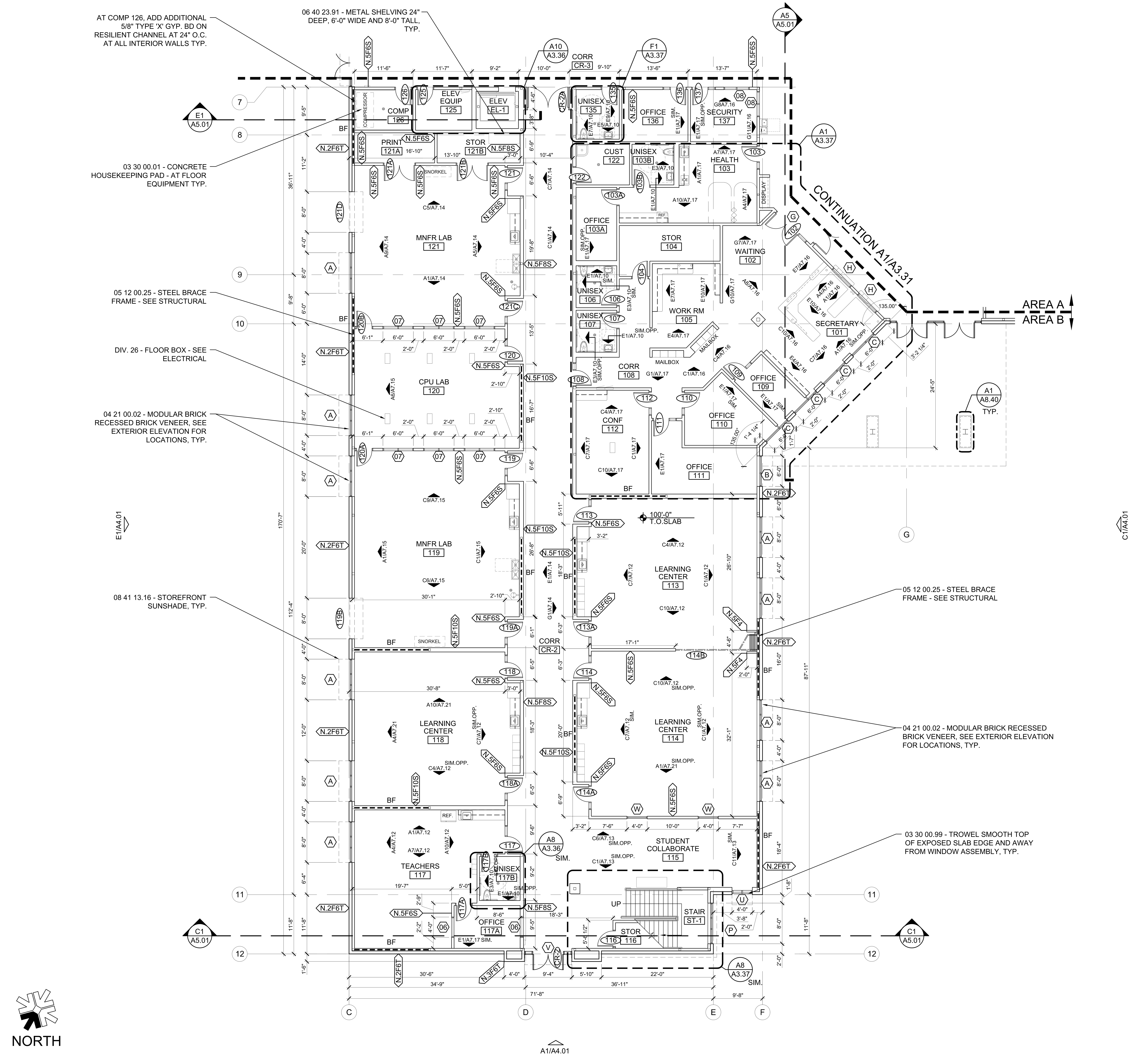
DATE
12/18/2023

SHEET NAME
FIRST FLOOR PLAN AREA A

SHEET
A3.31

SHEET NOTES

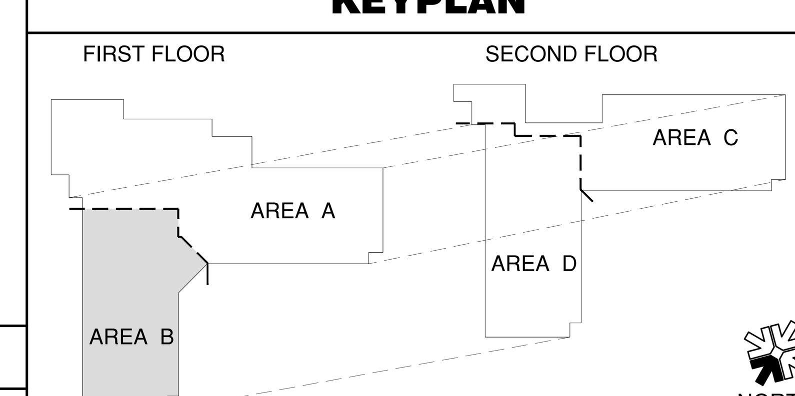
1. SEE SHEET A3.31 FOR SHEET NOTES



A1 FIRST FLOOR PLAN - AREA B

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

KEYPLAN



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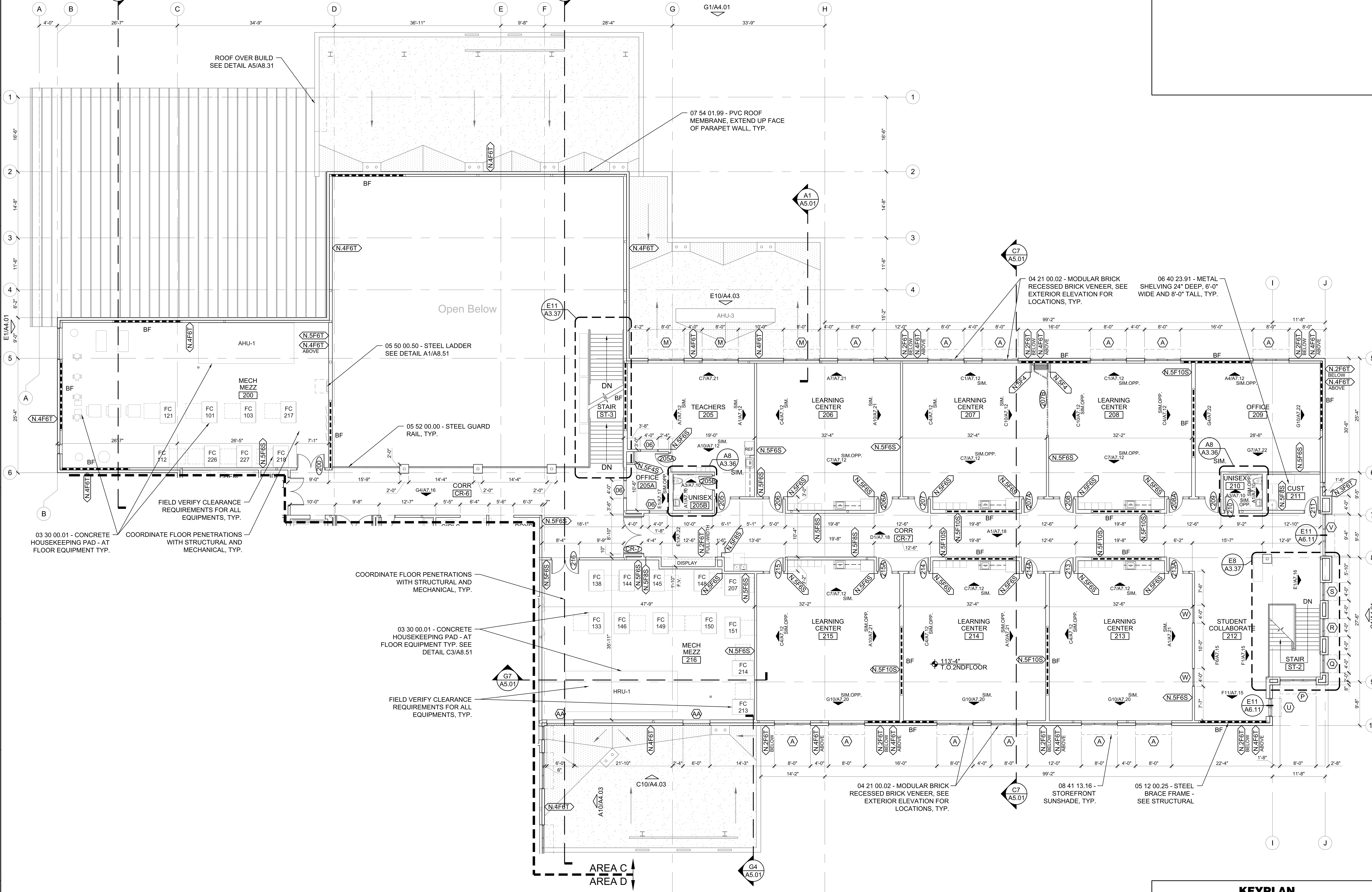
DATE: 12/18/2023

SHEET NAME: **FIRST FLOOR PLAN AREA B**

SHEET: **A3.32**

SHEET NOTES

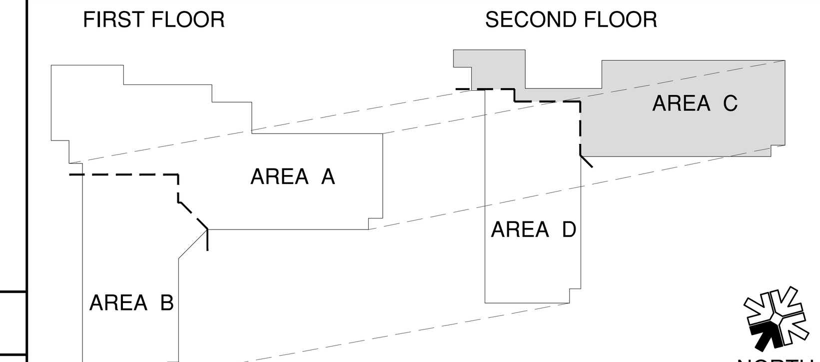
1. SEE SHEET A3.31 FOR SHEET NOTES



A1 **SECOND FLOOR PLAN - AREA C**

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

KEYPLAN



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PASCO, WASHINGTON 99301

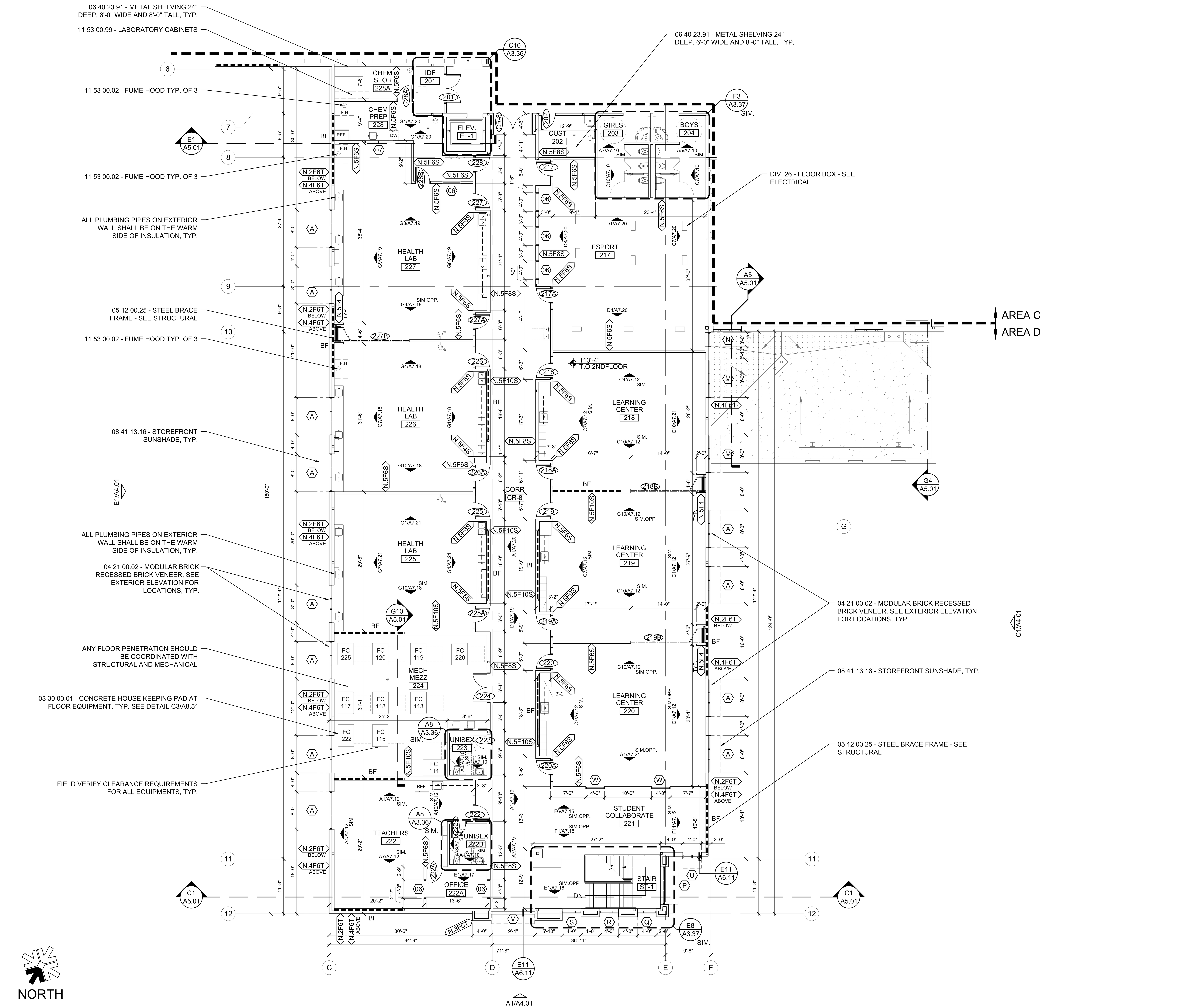
DATE
12/18/2023

SHEET NAME
SECOND FLOOR PLAN AREA C

SHEET
A3.33

SHEET NOTES

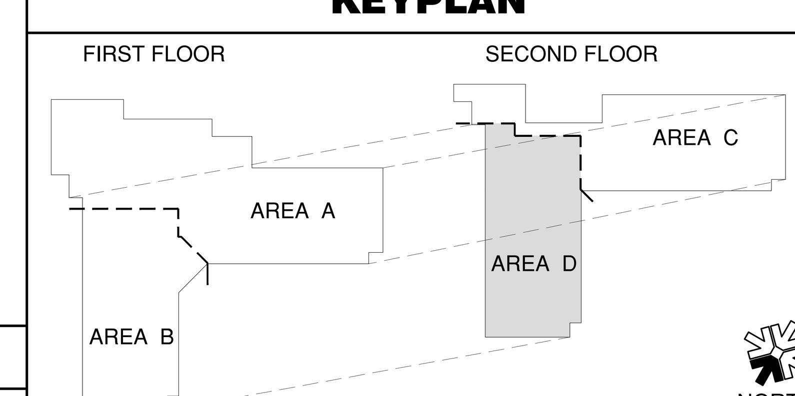
1. SEE SHEET A3.31 FOR SHEET NOTES



A1 SECOND FLOOR PLAN - AREA D

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

KEYPLAN



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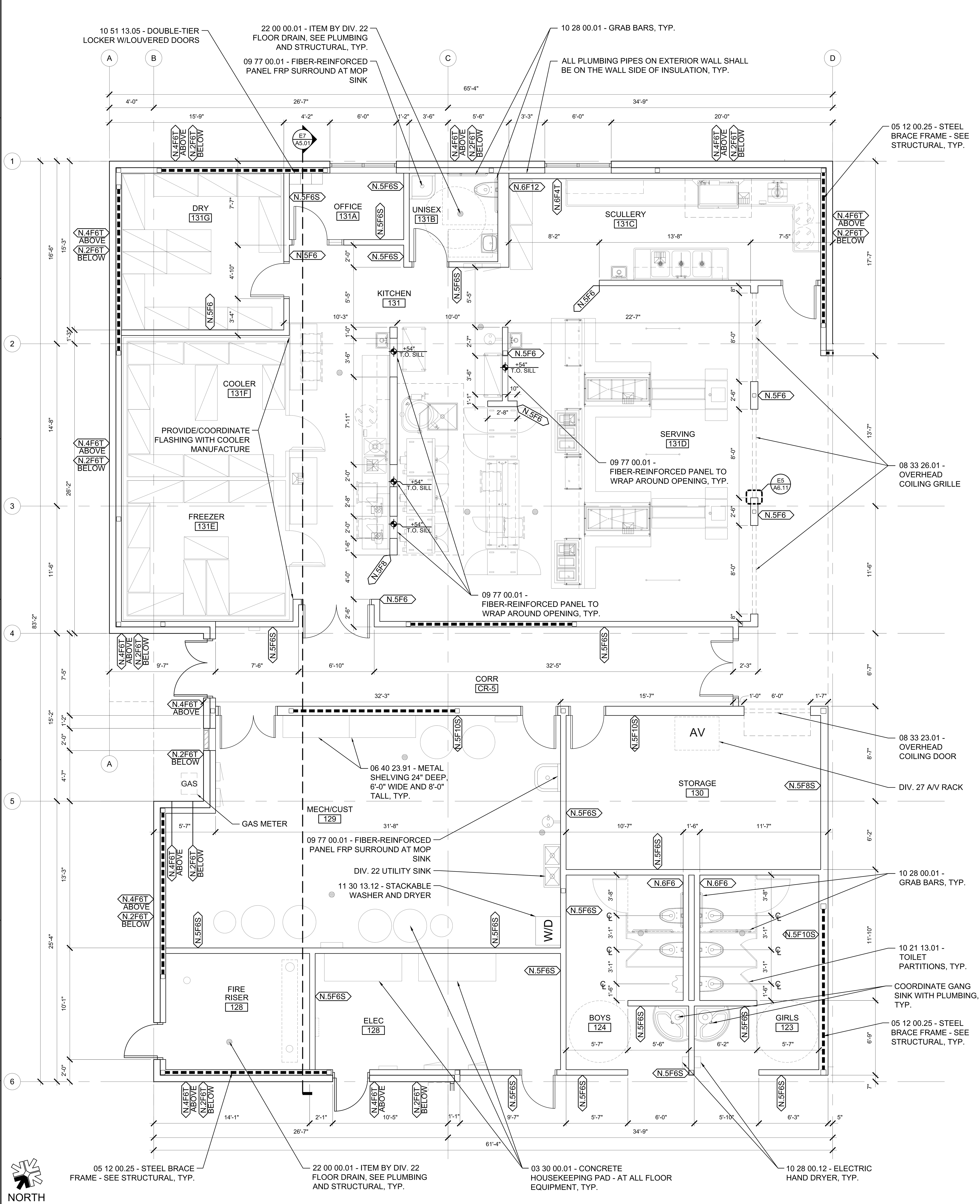
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **SECOND FLOOR PLAN AREA D**

SHEET: **A3.34**

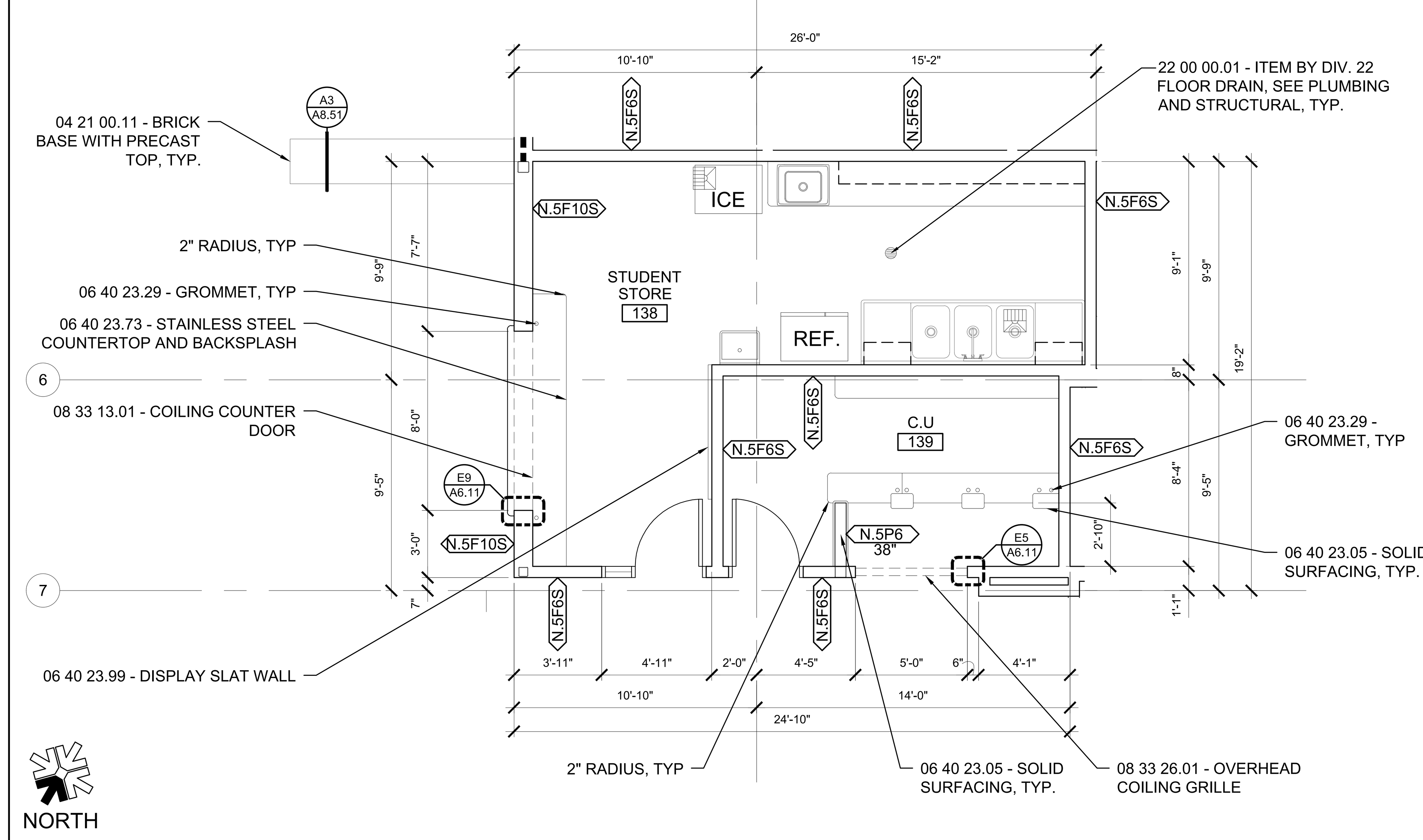
NOTE:
1. REFER TO FOOD SERVICE DRAWING FOR KITCHEN INTERIOR ELEVATION REFERENCES.
2. INSTALL FRP WALL FINISH 8'-0" TALL WITHIN KITCHEN AREA, TYP
3. REFERENCE 10 28 00 FOR OFCI TOILET ACCESSORIES



A1 ENLARGED FLOOR PLAN - KITCHEN

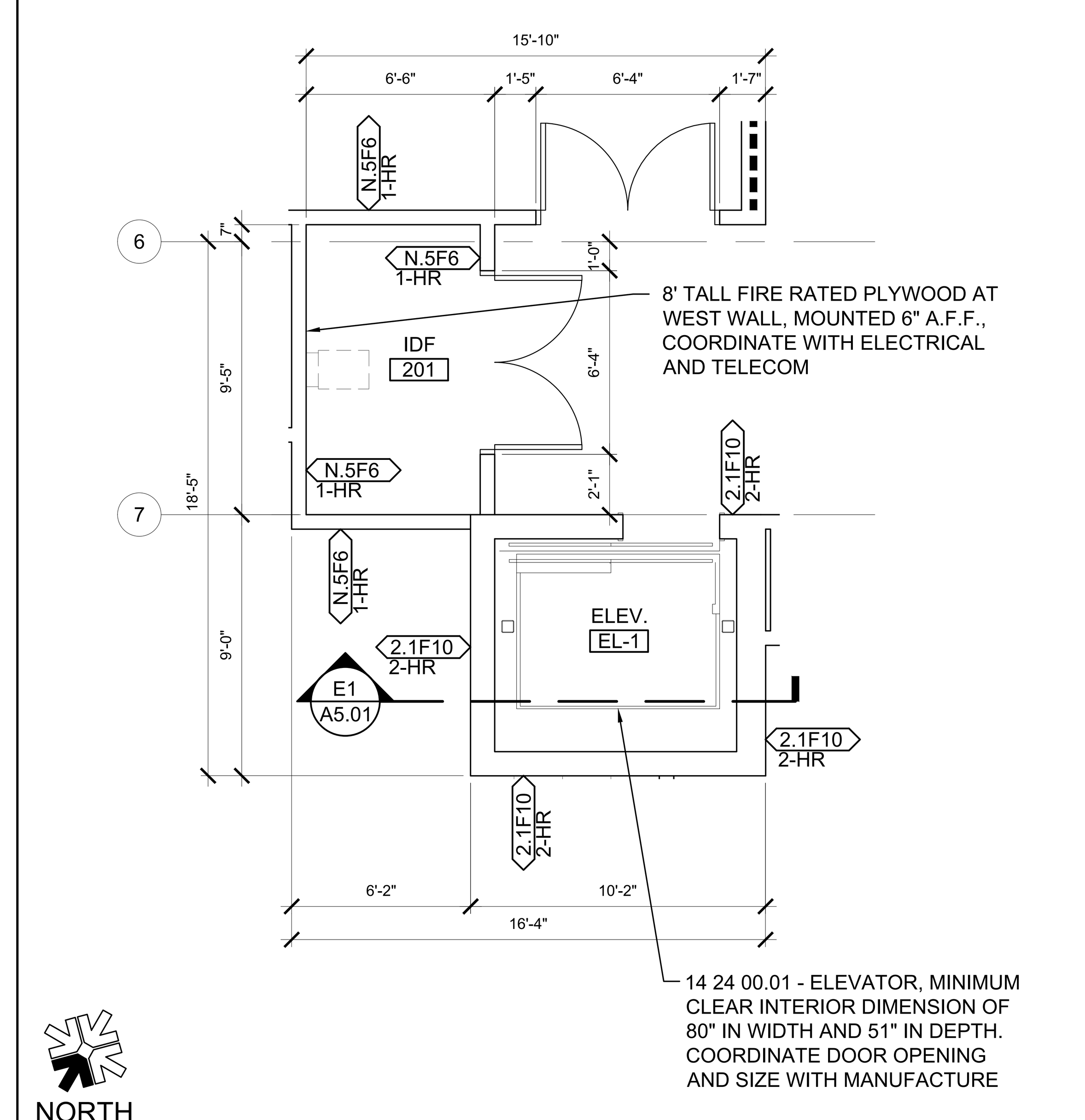
SCALE: 1/4" = 1'-0"

NOTE:
1. REFER TO FOOD SERVICE DRAWING FOR STUDENT STORE EQUIPMENT
2. INSTALL FRP WALL FINISH 8'-0" TALL WITHIN STUDENT STORE AREA, TYP



F8 ENLARGED FLOOR PLAN - STUDENT STORE AND CREDIT UNION

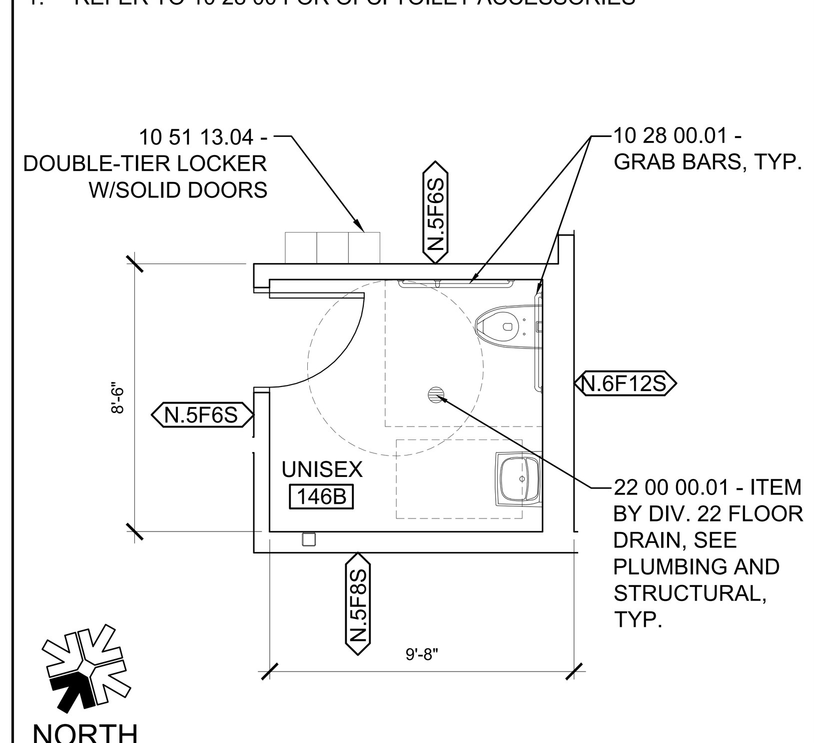
SCALE: 1/4" = 1'-0"



C10 ENLARGED FLOOR PLAN - ELEV SECOND FLOOR

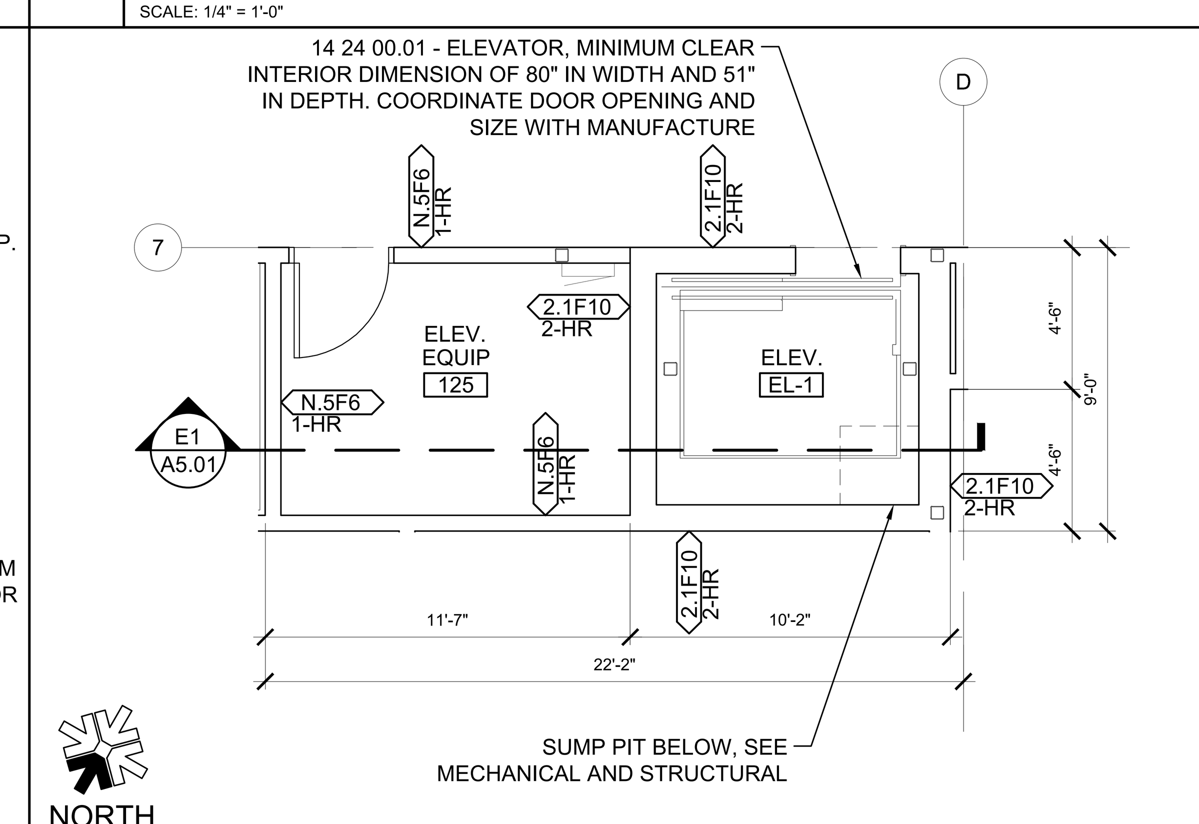
SCALE: 1/4" = 1'-0"

NOTE:
1. REFER TO 10 28 00 FOR OFCI TOILET ACCESSORIES



A8 ENLARGED FLOOR PLAN - RESTROOM

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



A10 ENLARGED FLOOR PLAN - ELEV FIRST FLOOR

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

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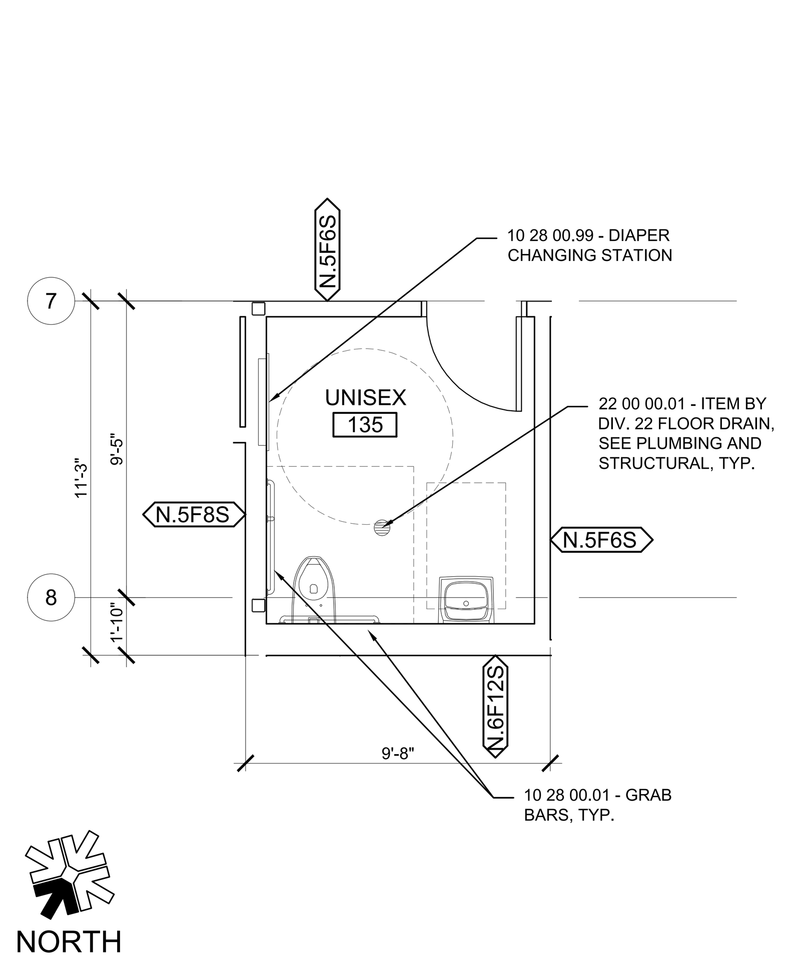
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
ENLARGED PLANS

SHEET
A3.36

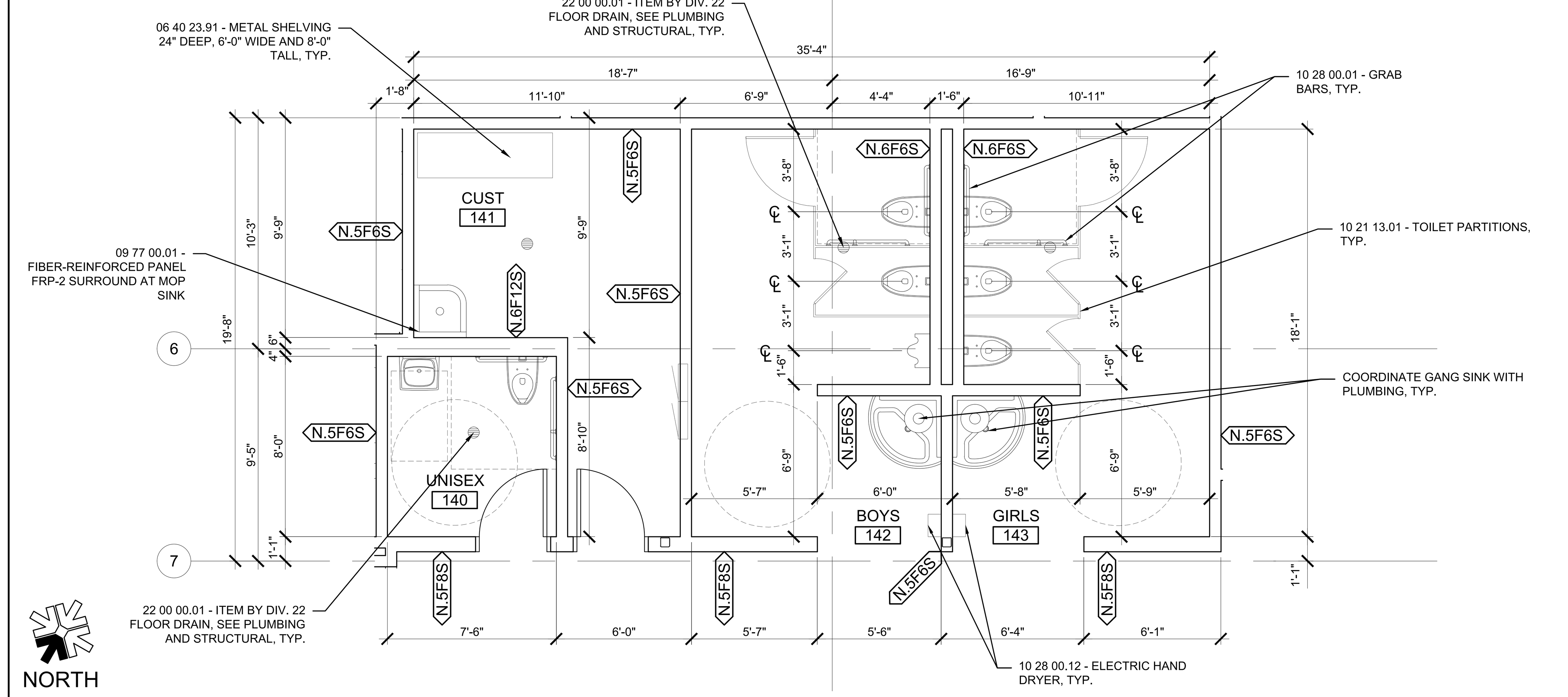
NOTE:
1. REFER TO 10 28 00 FOR OFCI TOILET ACCESSORIES



F1 ENLARGED FLOOR PLAN - RESTROOM

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

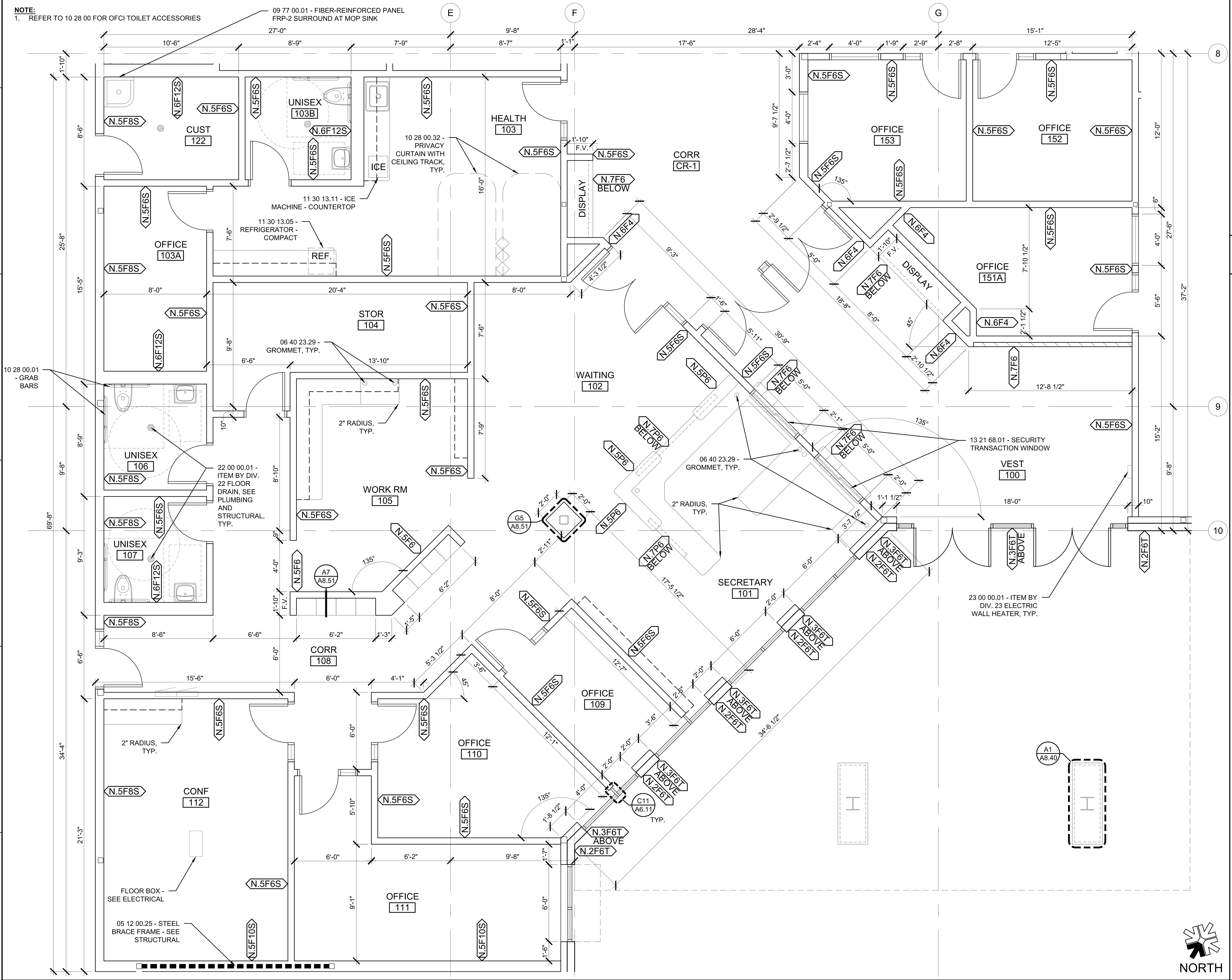
NOTE:
1. REFER TO 10 28 00 FOR OFCI TOILET ACCESSORIES



F3 ENLARGED FLOOR PLAN - RESTROOM

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

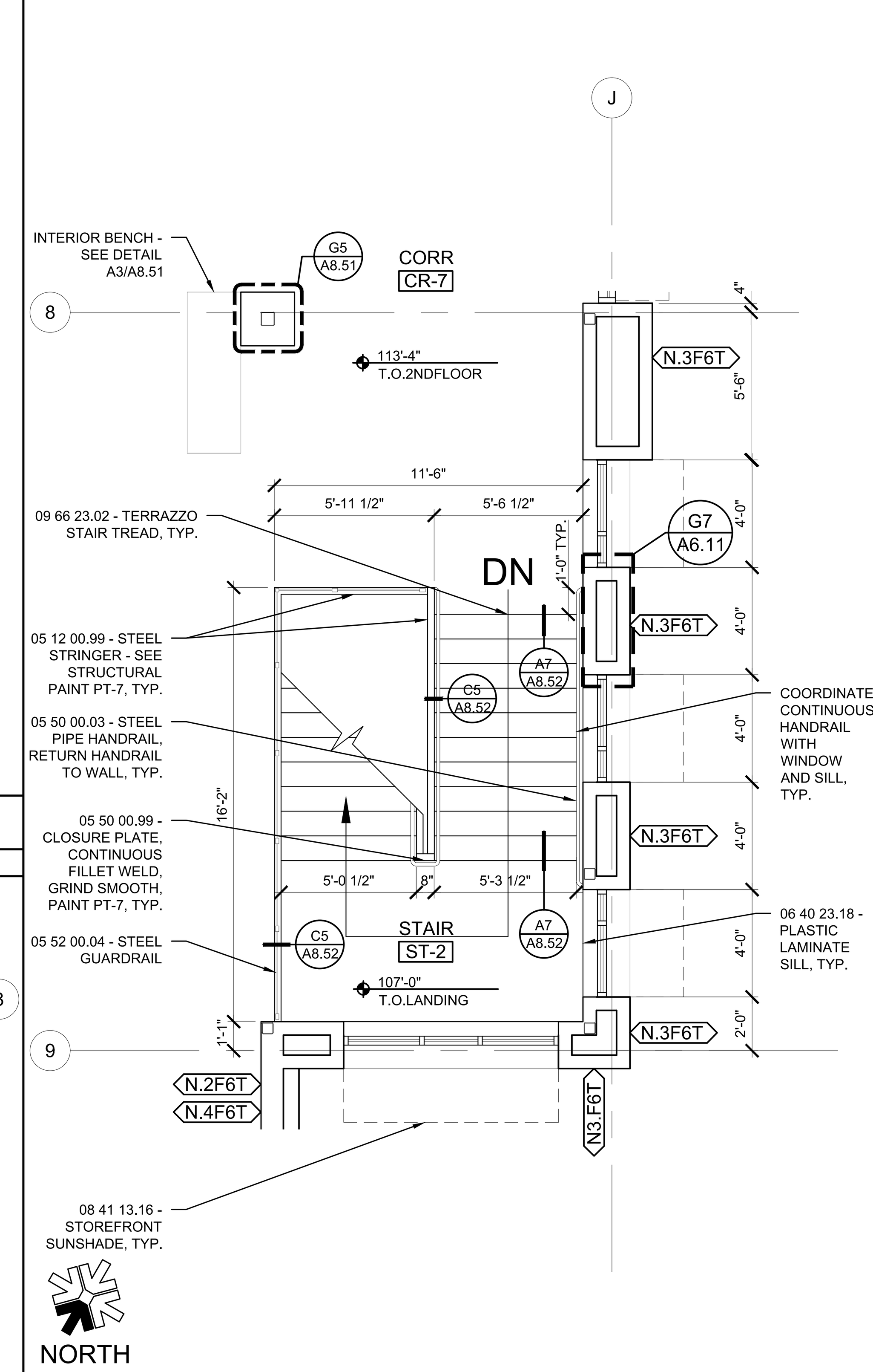
NOTE:
1. REFER TO 10 28 00 FOR OFCI TOILET ACCESSORIES



A1 ENLARGED FLOOR PLAN - ADMINISTRATION

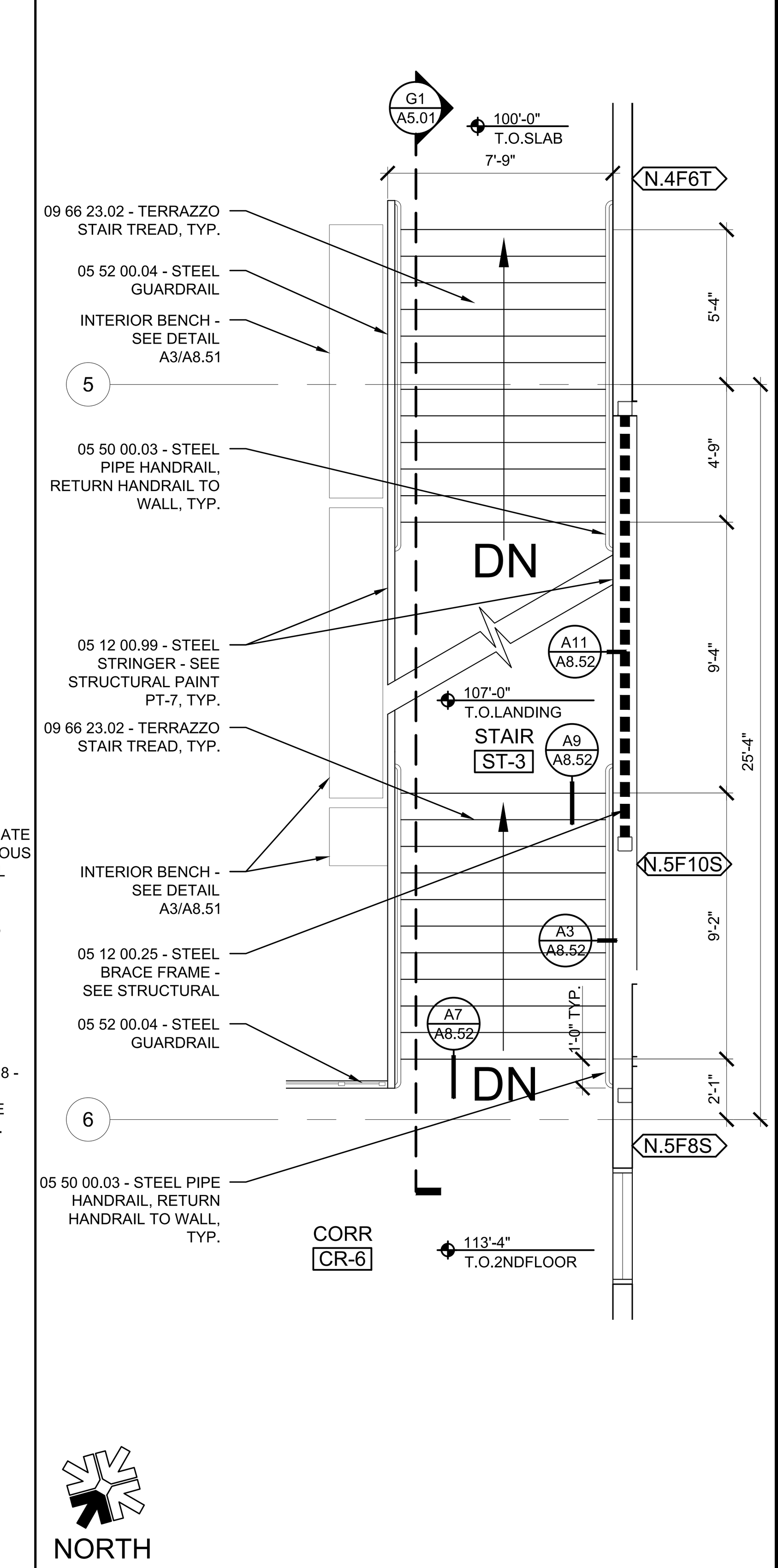
SCALE: 1/4" = 1'-0"

NOTE:
UTILIZE HORIZONTAL HAT CHANNEL AT 16" O.C. AT ALL METAL STUD WALLS AT ALL LEVELS AS FURRING TO PROVIDE NO GAP BETWEEN FACE OF GWB AND STAIR STRUCTURE, TYP.



E8 ENLARGED PLAN - ST-2 (2ND FLOOR)

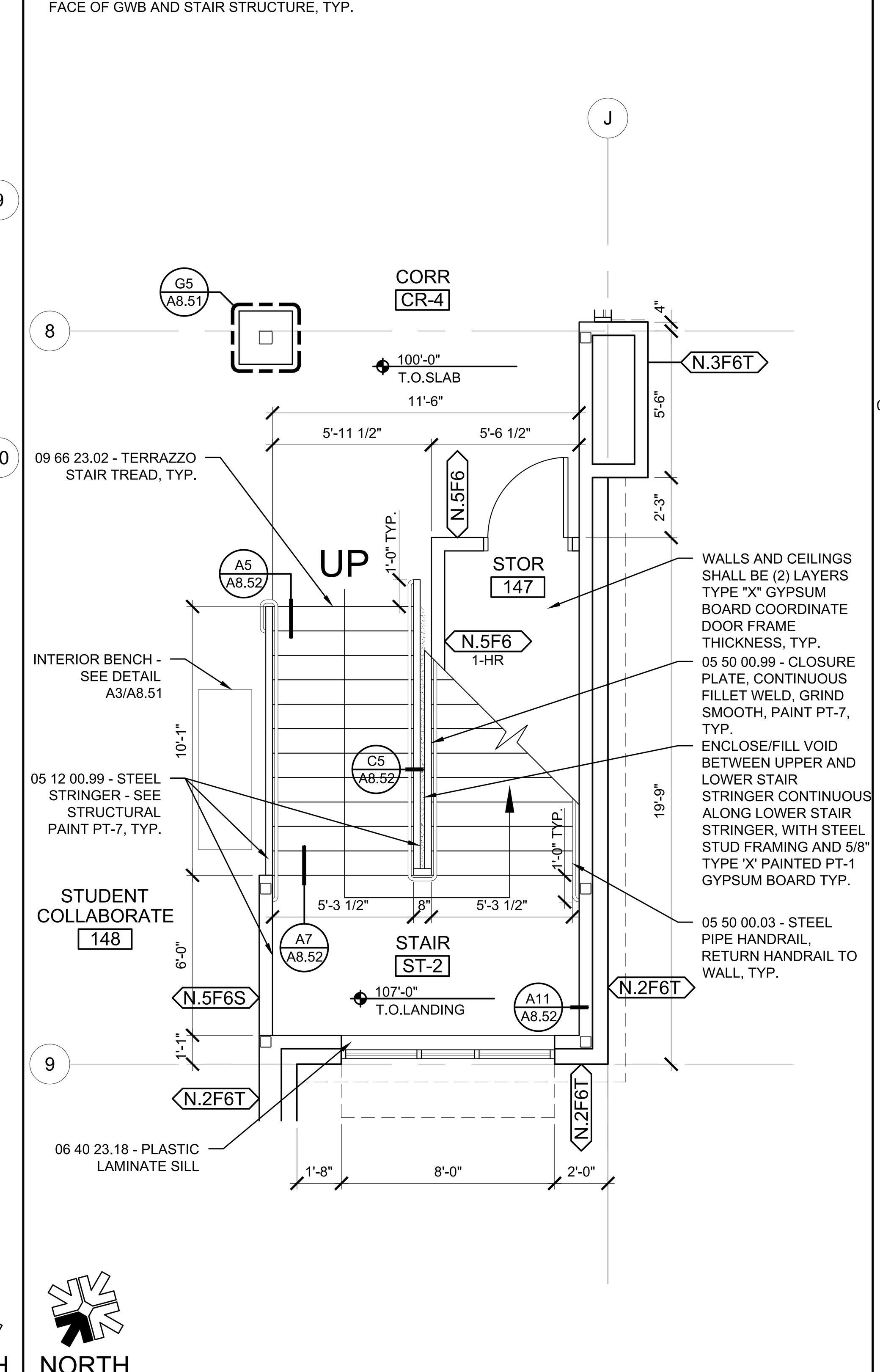
SCALE: 1/4" = 1'-0"



E11 ENLARGED PLAN - ST-3 (2ND FLOOR)

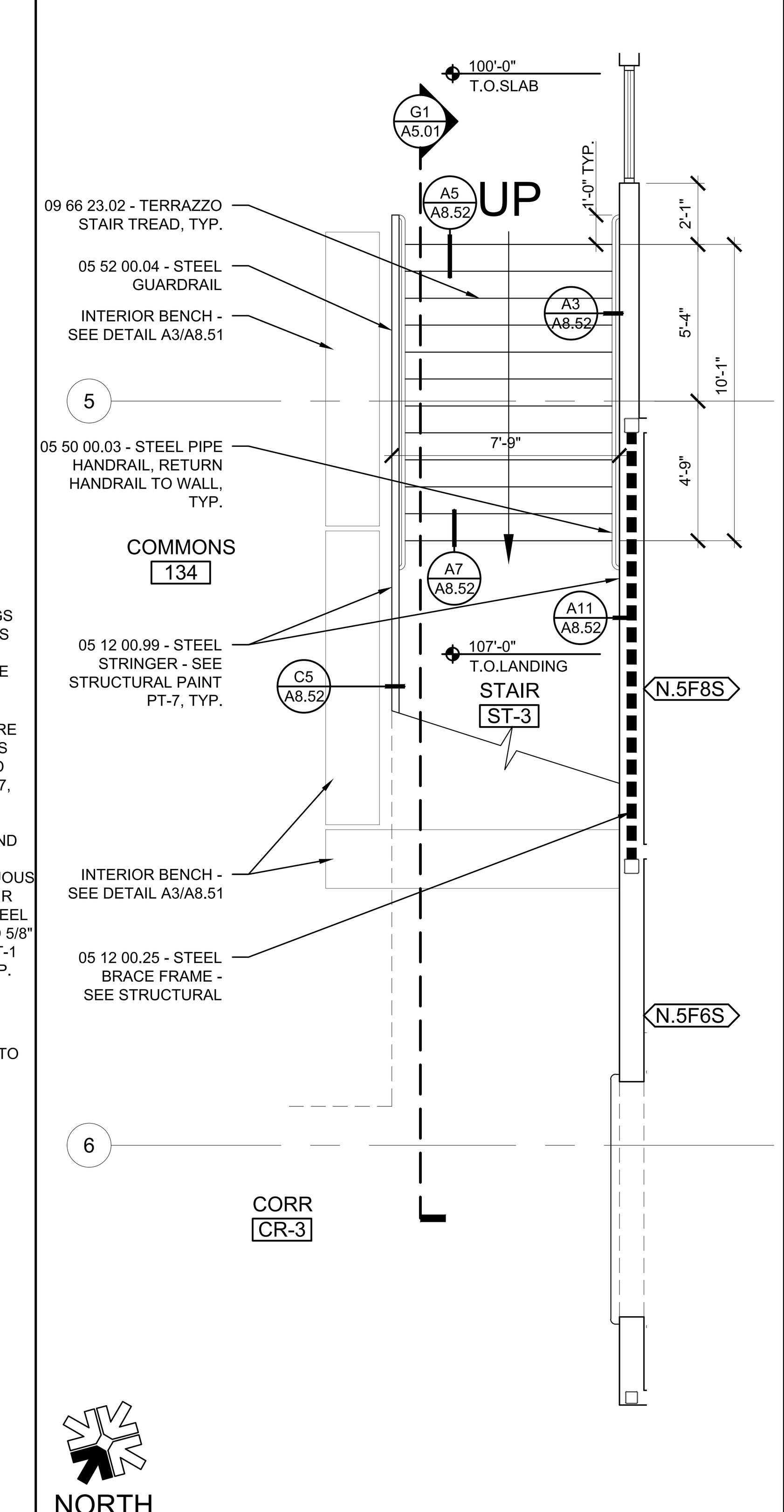
SCALE: 1/4" = 1'-0"

NOTE:
UTILIZE HORIZONTAL HAT CHANNEL AT 16" O.C. AT ALL METAL STUD WALLS AT ALL LEVELS AS FURRING TO PROVIDE NO GAP BETWEEN FACE OF GWB AND STAIR STRUCTURE, TYP.



A8 ENLARGED PLAN - ST-2 (1ST FLOOR)

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



A11 ENLARGED PLAN - ST-3 (1ST FLOOR)

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

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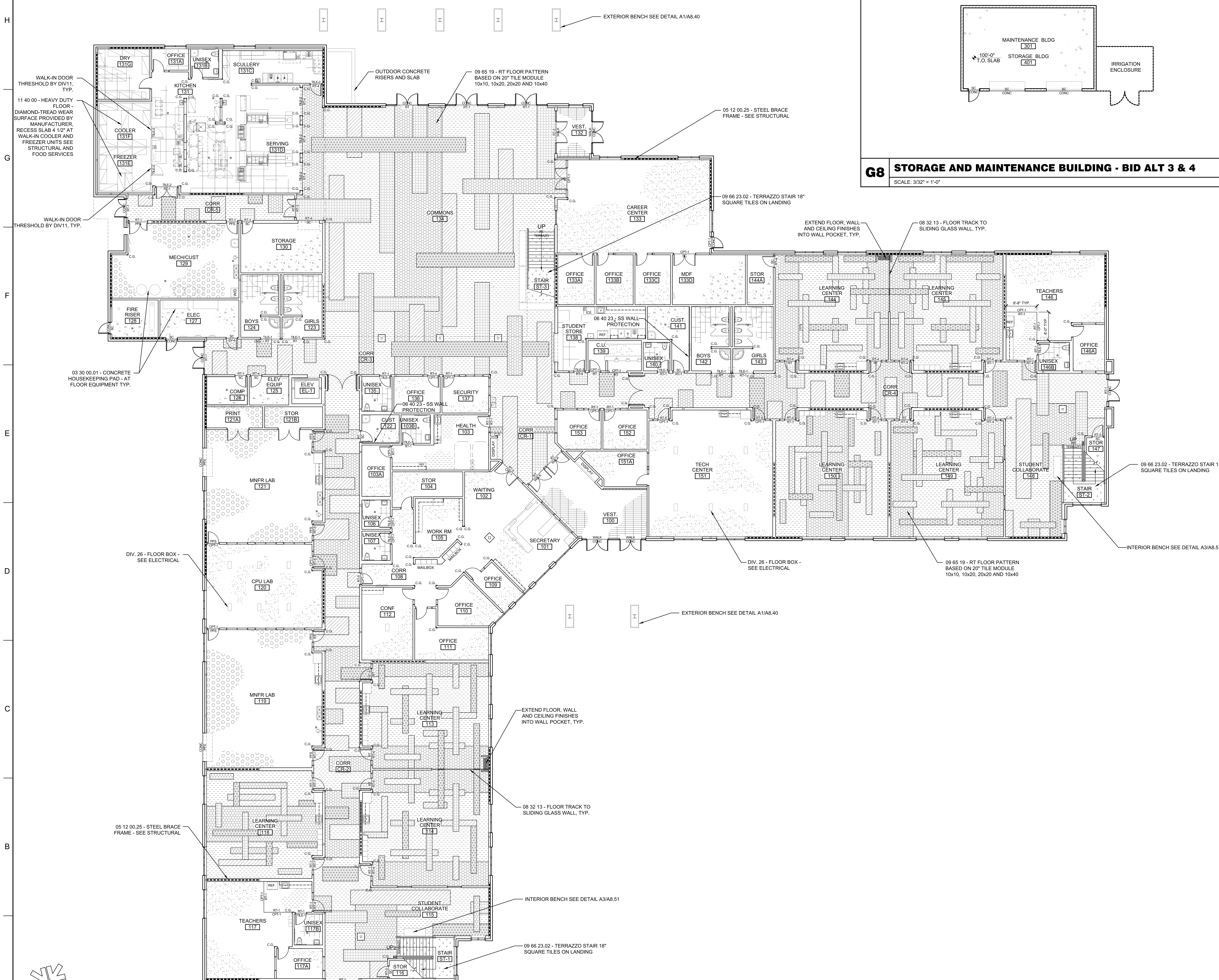
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
ENLARGED PLANS

SHEET
A3.37



A1 **FIRST FLOOR FINISH PLAN**

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

G8 **STORAGE AND MAINTENANCE BUILDING - BID ALT 3 & 4**

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

SHEET NOTES

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. ALL CHANGES OF FLOORING MATERIAL ARE TO TAKE PLACE AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE.
3. FLOOR FINISHES ARE CONTINUOUS IN THE ENTIRE AREA IN WHICH THEY ARE DESIGNATED, UNDER EQUIPMENT, MOVEABLE CASEWORK, AND INTO TOE KICK / KNEE SPACES.
4. PROVIDE TRANSITION STRIPS AT ALL INTERSECTION OF DISSIMILAR MATERIALS.
5. CONTRACTOR SHALL PERFORM REQUIRED FLOOR PREPARATION, APPLY FLOOR LEVELING COMPOUND AND APPLY FLOOR SEALER AS NEEDED FOR SPECIFIED FLOOR FINISH AND TOLERANCES.
6. SEE FINISH SCHEDULE AND INTERIOR ELEVATION SHEETS FOR FURTHER FINISHES INFORMATION.
7. PROVIDE ALUMINUM BRAKE METAL FLASHING AT BASE OF WALL AT FULL-HEIGHT WINDOW TO CONCEAL FLOOR GAP, MATCH FINISH OF CURTAIN WALL. FLASHING SHALL BE AT MINIMUM 2"X3" CONTINUOUS ANGLE - F.V. SIZE AND LENGTH, TYP.

FINISH LEGEND

TILE-1 12x24 FLOOR TILE SPEC 09 30 00	RT-1 (FIELD) RESILIENT TILE FLOORING SPEC 09 65 19
TILE-2 QUARRY TILE SPEC 09 65 00	RT-2 (ACCENT) RESILIENT TILE FLOORING SPEC 09 65 19
CPT-1 GLUE-DOWN 6' ROLL SPEC 09 68 16	RT-3 (ACCENT) RESILIENT TILE FLOORING SPEC 09 65 19
WALK WALK OFF MAT SPEC 09 68 13	RT-4 (ACCENT) RESILIENT TILE FLOORING SPEC 09 65 19
TERRAZZO FLOORING SPEC 09 66 23	RT-5 (ACCENT) RESILIENT TILE FLOORING SPEC 09 65 19
PFS PAINT FLOOR SEALER SPEC 03 30 00 & 09 91 00	SC CLEAR SEALER ON CONCRETE SPEC 03 35 60
FLOOR TRANSITION SPEC 09 65 13	
STAINLESS STEEL CORNER GUARD SPEC 10 26 13	

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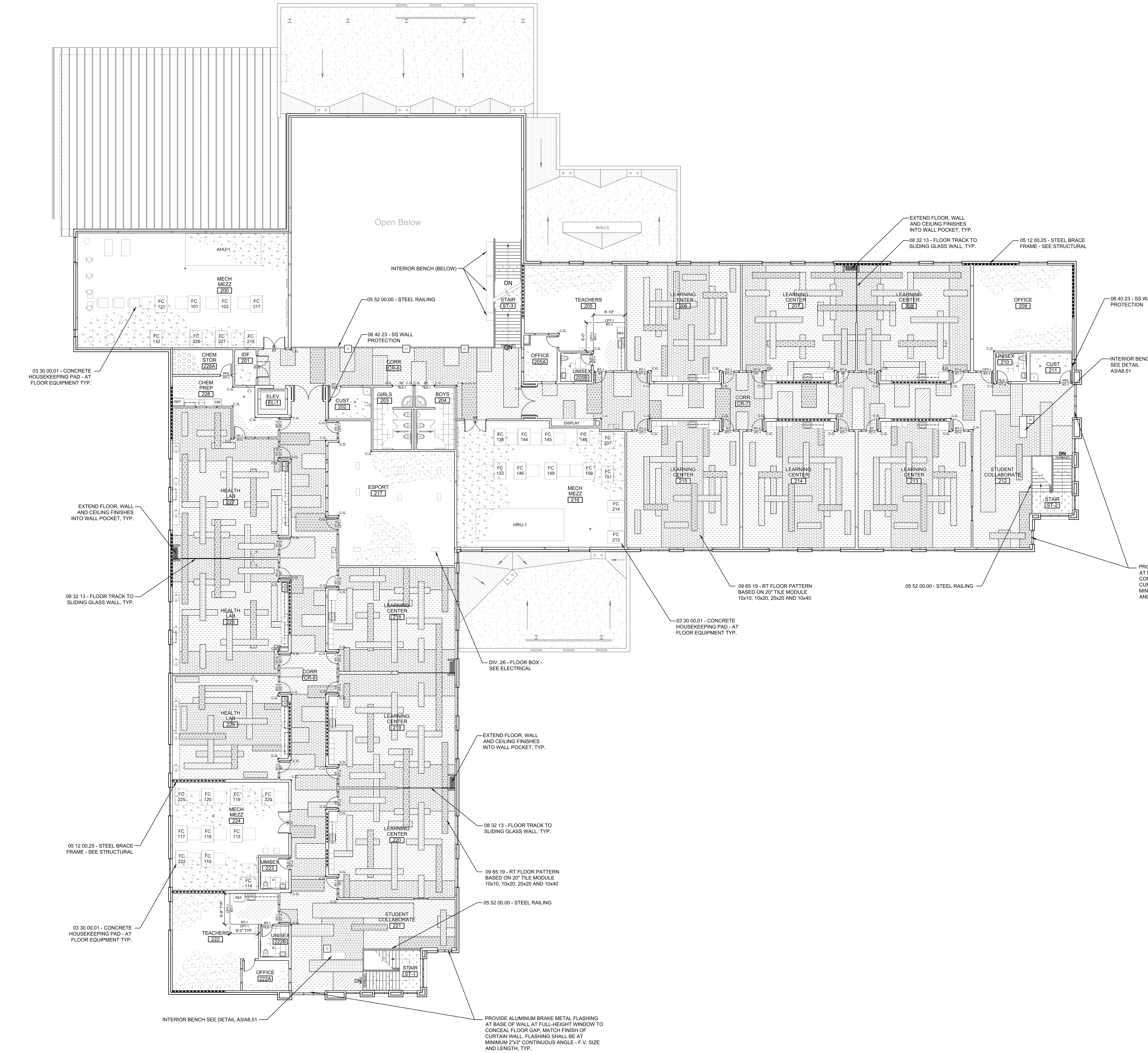
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
FIRST FLOOR FINISH PLAN

SHEET
A3.41



A1 **SECOND FLOOR FINISH PLAN**

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

SHEET NOTES

1. REFER TO SHEET A3.41 FOR FINISH PLAN NOTES.

FINISH LEGEND

- TILE-1 — 12x24 FLOOR TILE — SPEC 09 30 00
- TILE-2 — QUARRY TILE — SPEC 09 65 00
- CPT-1 — GLUE-DOWN 6' ROLL — SPEC 09 68 16
- WALK — WALK OFF MAT — SPEC 09 68 13
- TERRAZZO — FLOORING — SPEC 09 66 23
- PFS — PAINT FLOOR SEALER — SPEC 03 30 00 & 09 91 00
- FLOOR TRANSITION — SPEC 09 65 13
- STAINLESS STEEL CORNER GUARD — SPEC 10 26 13
- RT-1 (FIELD) — RESILIENT TILE FLOORING — SPEC 09 65 19
- RT-2 (ACCENT) — RESILIENT TILE FLOORING — SPEC 09 65 19
- RT-3 (ACCENT) — RESILIENT TILE FLOORING — SPEC 09 65 19
- RT-4 (ACCENT) — RESILIENT TILE FLOORING — SPEC 09 65 19
- RT-5 (ACCENT) — RESILIENT TILE FLOORING — SPEC 09 65 19
- SC — CLEAR SEALER ON CONCRETE — SPEC 03 35 60

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PASCO, WASHINGTON 99301

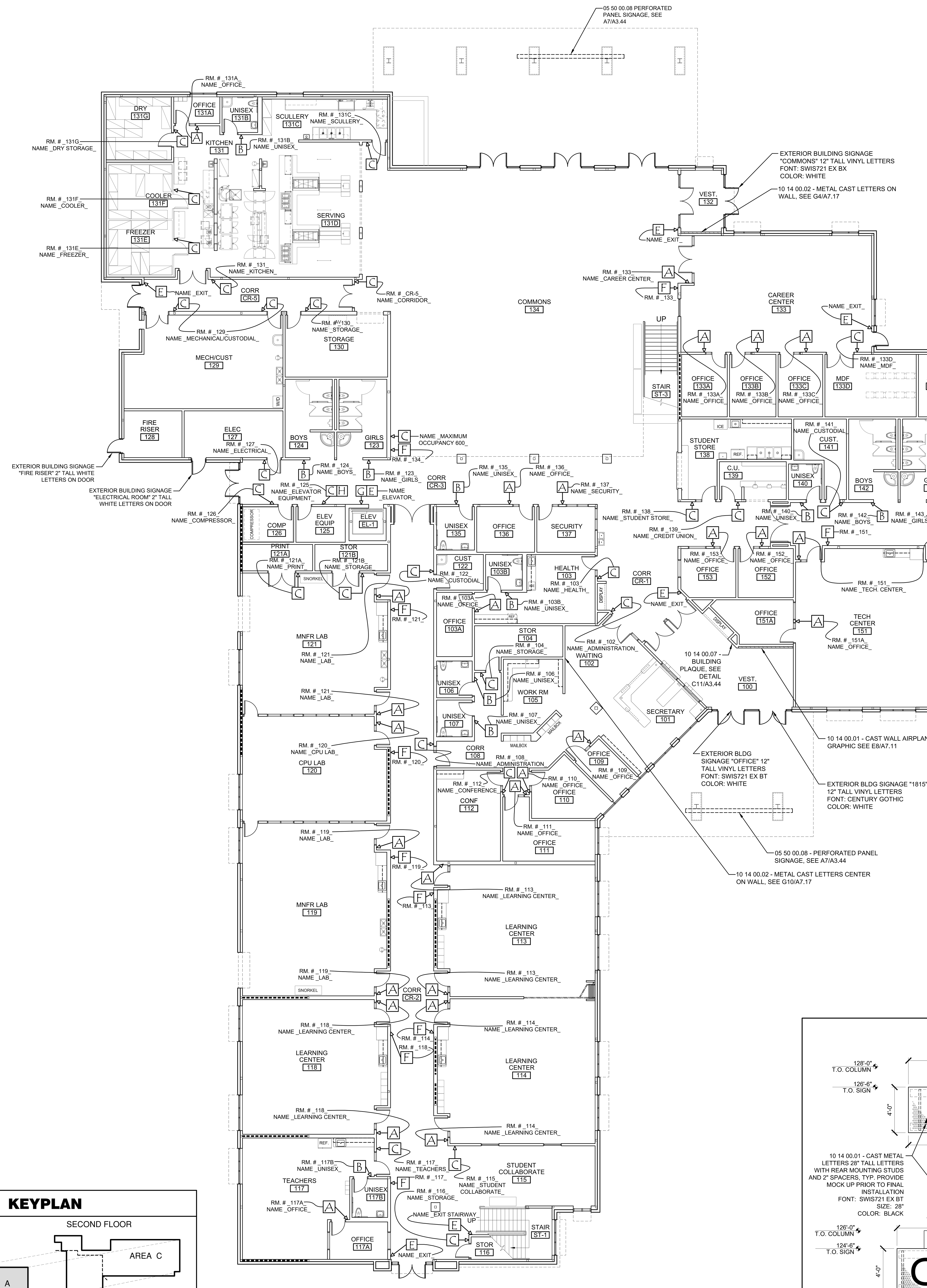
DATE: 12/18/2023

SHEET NAME: **SECOND FLOOR FINISH PLAN**

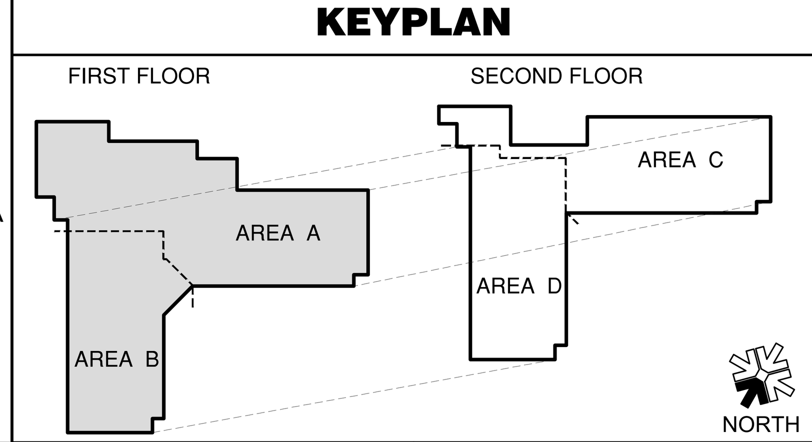
SHEET: **A3.42**

SHEET NOTES

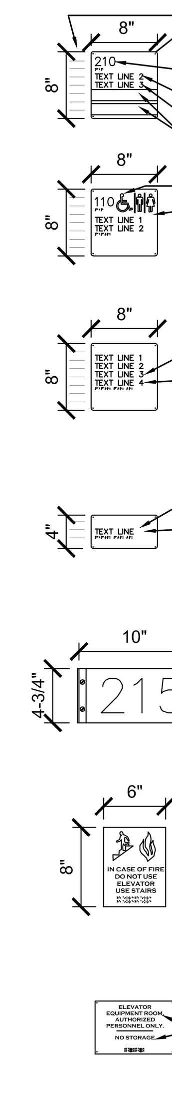
1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. REFERENCE SPECIFICATION 10 14 00 FOR ADDITIONAL SIGNAGE INFORMATION.
3. REFERENCE DETAILS A11, C11 AND E11 ON THE SHEET FOR ADDITIONAL SIGNAGE INFORMATION.
4. REFERENCE EXTERIOR ELEVATIONS FOR EXTERIOR METAL CAST LETTER SIGNAGE.



KEYPLAN

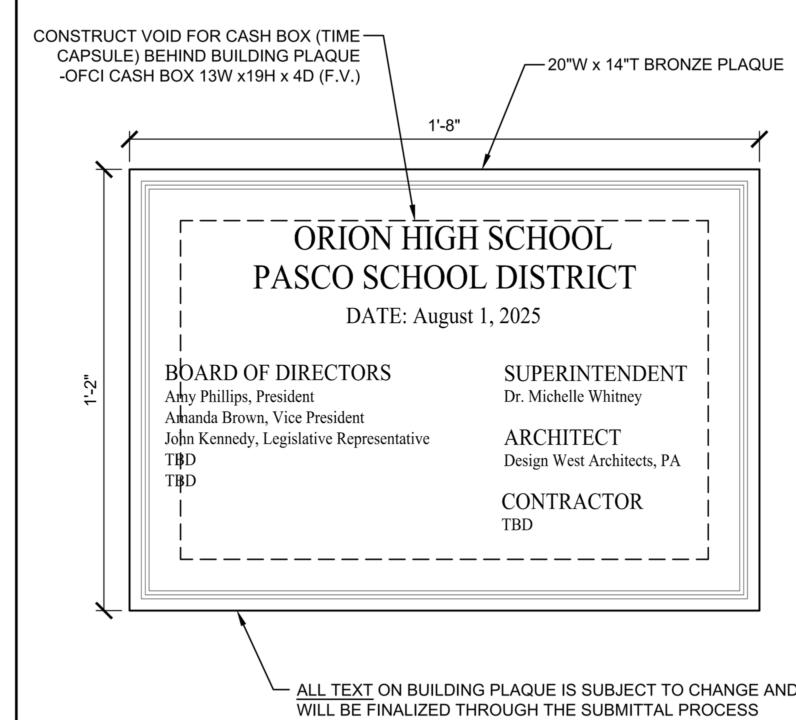


A3 **FIRST FLOOR SIGNAGE PLAN**
SCALE: 3/32" = 1'-0"

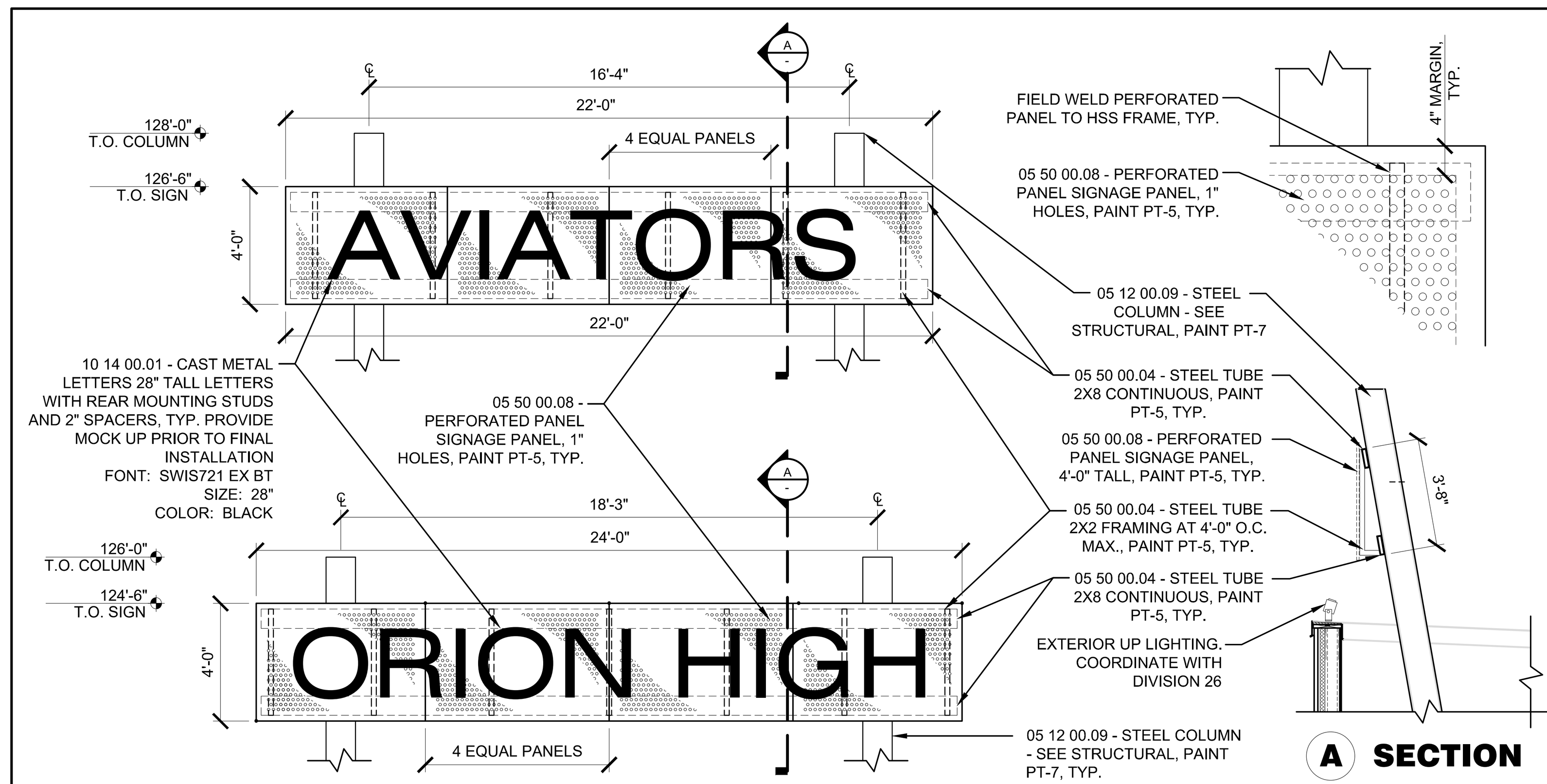


TYPE	DESCRIPTION
TYPE- A	ALIGN SIGN CONTENT AT 1" INTERVALS; SEAMLESS ACRYLIC UNIT WITH TACTILE LETTERS WITH BRAILLE TYP.; 1" TALL NUMBER; 1/32" RAISED TEXT; 5/8" TALL TEXT (FILL TEXT LINE 4 FIRST); (2) 1-1/2" TALL SLOT WINDOWS FOR PAPER INSERTS
TYPE- B	ACCESSIBILITY SYMBOL TYP.; GENDER SYMBOL WITH BRAILLE TYP. - MAN FOR MALE RESTROOMS -WOMEN FOR FEMALE RESTROOMS -MAN & WOMAN FOR UNISEX RESTROOMS
TYPE- C	1/32" RAISED TEXT WITH BRAILLE TYP.; 5/8" TALL TEXT (FILL TEXT LINE 4 FIRST)
TYPE- E	1/32" RAISED TEXT WITH BRAILLE TYP.; 5/8" TALL TEXT (FILL TEXT LINE 4 FIRST)
TYPE- F	HC200F 10"x4.75"; 3"HIGH TEXT; SATIN FINISHED ALUMINUM MOUNTING FLAG BRACKET; SIGN FINISH AND NUMBERS ON BOTH SIDES OF SIGN
TYPE- G	WORD & PICTURE SIGNS 6"x8" IN CASE OF FIRE DO NOTE USE ELEVATOR; PLACE ABOVE CALL BUTTON
TYPE- H	12"x18" WHITE BACKGROUND; 1.25" RED TEXT: ELEVATOR EQUIPMENT ROOM. AUTHORIZED PERSONNEL ONLY. NO STORAGE

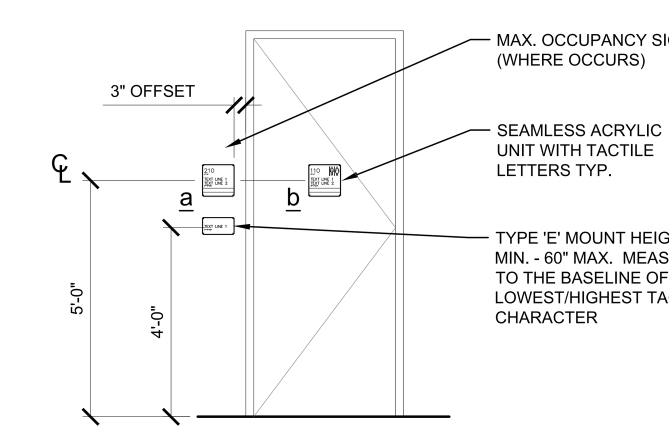
E11 **SIGN TYPES**
SCALE: 1/16" = 1'-0"



C11 **BUILDING PLAQUE**
SCALE: 3" = 1'-0" BLDG PLAQUE



A7 **ENTRY SIGNAGE**
SCALE: 1/4" = 1'-0" ENTRY SIGNAGE



NOTES:

1. LOCATION INSTRUCTIONS:
   a) FIRST CHOICE - ON WALL 3" ADJACENT TO DOOR (EITHER SIDE)
   b) SECOND CHOICE - CENTER ON DOOR TO ROOM
   (VERIFY WITH ARCHITECT PRIOR TO INSTALLING ON DOOR)
2. SEE SPECIFICATION 10 14 00

A11 **ROOM SIGN MOUNTING LOCATIONS**
SCALE: 3/8" = 1'-0"

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PASCO SCHOOL DISTRICT #1

9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

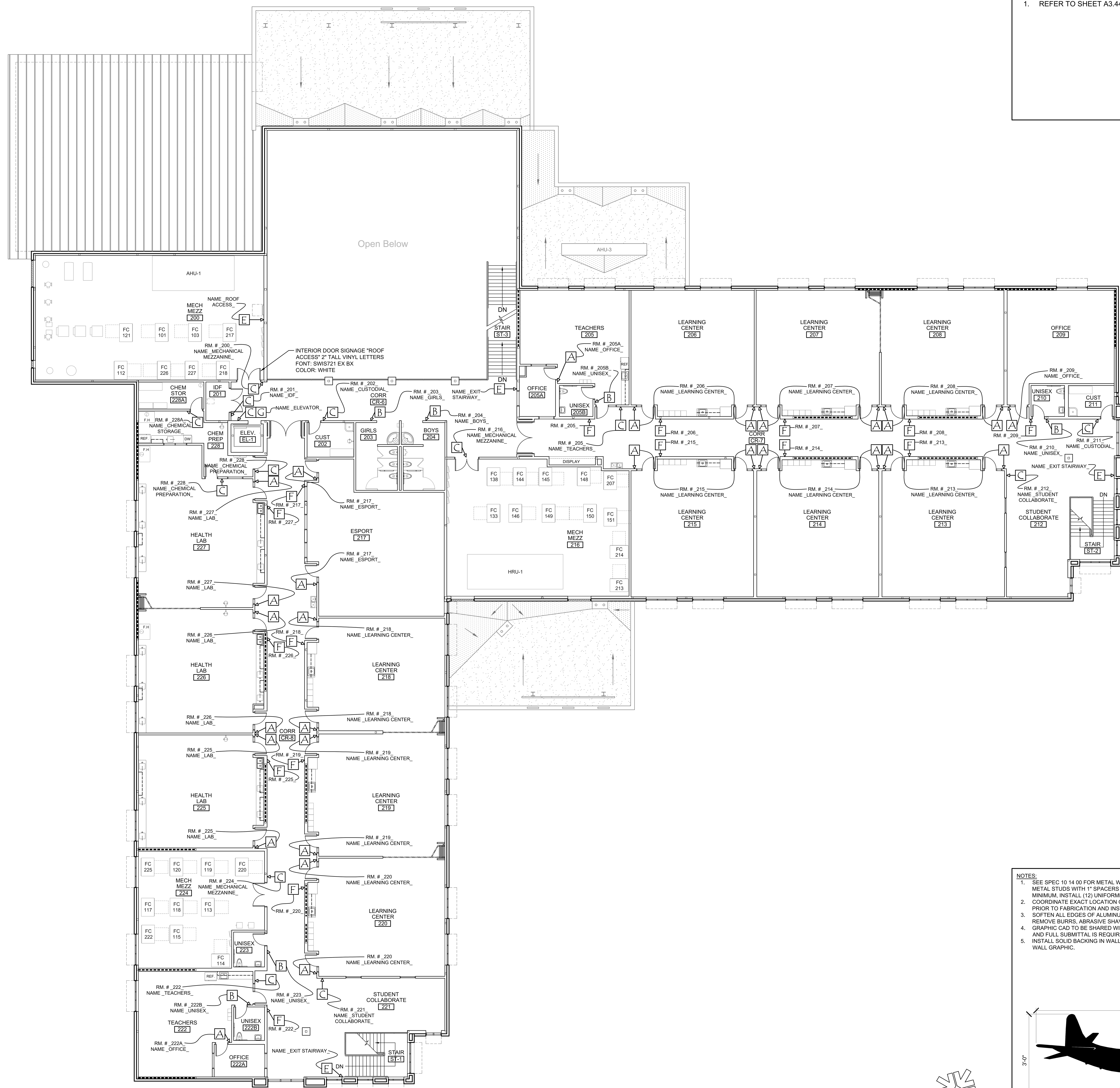
DATE
12/18/2023

SHEET NAME
FIRST FLOOR SIGNAGE PLAN

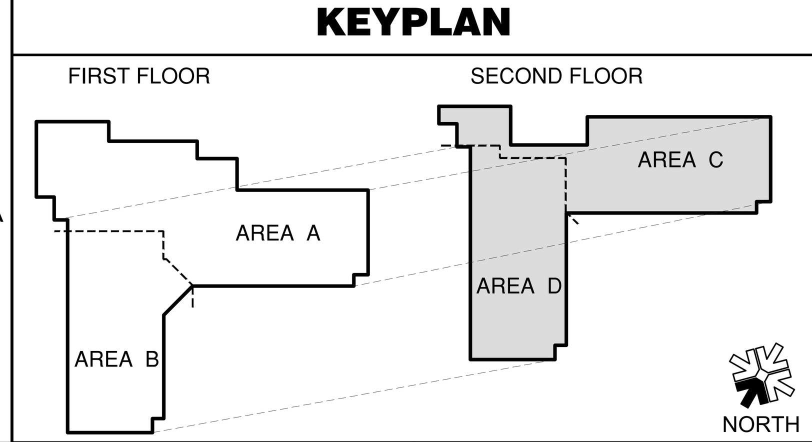
SHEET
A3.44

SHEET NOTES

1. REFER TO SHEET A3.44 FOR FINISH SIGNAGE PLAN NOTES.

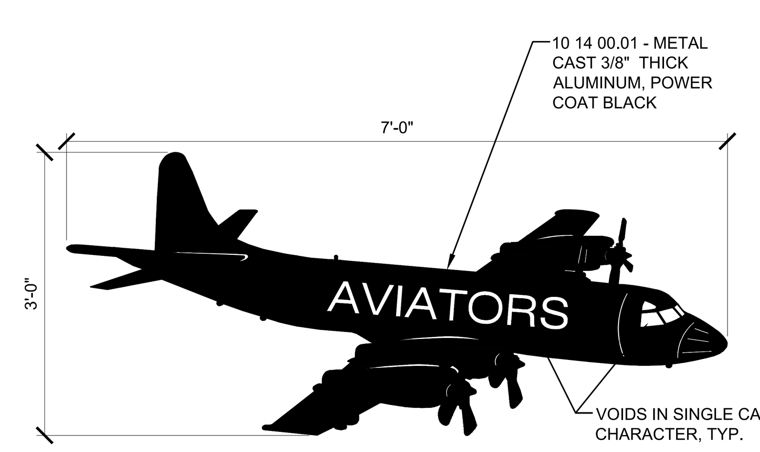


KEYPLAN



A3 SECOND FLOOR SIGNAGE PLAN

NOTES:
1. SEE SPEC 10 14 00 FOR METAL WALL GRAPHIC, MOUNTED ON METAL STUDS WITH 1" SPACERS FOR AIRPLANE SIGN. AT MINIMUM, INSTALL (12) UNIFORMLY SPACED ANCHORS, F.V.
2. COORDINATE EXACT LOCATION OF GRAPHIC WITH OWNER, PRIOR TO FABRICATION AND INSTALLATION.
3. SOFTEN ALL EDGES OF ALUMINUM AIRPLANE SHAPES. REMOVE BURRS, ABRASIVE SHAVINGS AND SHARP POINTS.
4. GRAPHIC CAD TO BE SHARED WITH VENDOR. SHOP DRAWING AND FULL SUBMITTAL IS REQUIRED.
5. INSTALL SOLID BACKING IN WALL TO SUPPORT AIRPLANE WALL GRAPHIC.



A11 WALL GRAPHIC - AIRPLANE

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

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1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SECOND FLOOR SIGNAGE PLAN

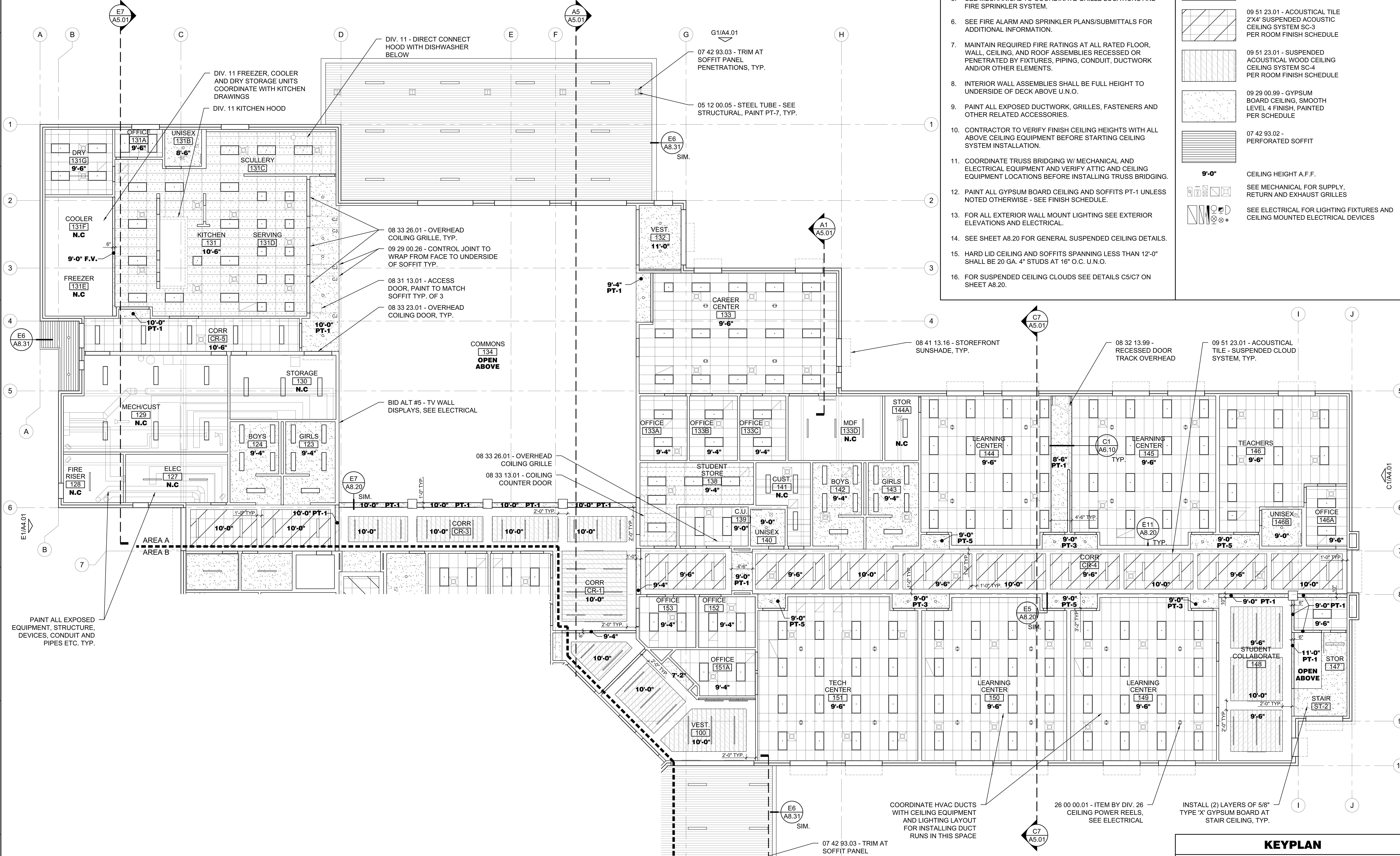
SHEET
A3.45

SHEET NOTES

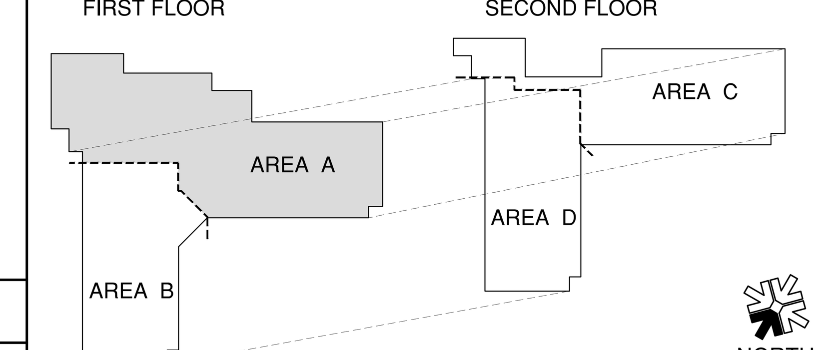
1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. SPOT ELEVATIONS ARE FROM FINISH FLOOR TO FINISH CEILING.
3. ELECTRICAL AND MECHANICAL ARE SHOWN FOR REFERENCE ONLY. SEE RELATED ELECTRICAL AND MECHANICAL DRAWINGS.
4. SEE ELECTRICAL LIGHTING PLANS FOR FIXTURE LOCATIONS.
5. SEE MECHANICAL TO COORDINATE GRILLE LOCATIONS AND FIRE SPRINKLER SYSTEM.
6. SEE FIRE ALARM AND SPRINKLER PLANS/SUBMITTALS FOR ADDITIONAL INFORMATION.
7. MAINTAIN REQUIRED FIRE RATINGS AT ALL RATED FLOOR, WALL, CEILING, AND ROOF ASSEMBLIES RECESSED OR PENETRATED BY FIXTURES, PIPING, CONDUIT, DUCTWORK AND/OR OTHER ELEMENTS.
8. INTERIOR WALL ASSEMBLIES SHALL BE FULL HEIGHT TO UNDERSIDE OF DECK ABOVE U.N.O.
9. PAINT ALL EXPOSED DUCTWORK, GRILLES, FASTENERS AND OTHER RELATED ACCESSORIES.
10. CONTRACTOR TO VERIFY FINISH CEILING HEIGHTS WITH ALL ABOVE CEILING EQUIPMENT BEFORE STARTING CEILING SYSTEM INSTALLATION.
11. COORDINATE TRUSS BRIDGING W/ MECHANICAL AND ELECTRICAL EQUIPMENT AND VERIFY ATTIC AND CEILING EQUIPMENT LOCATIONS BEFORE INSTALLING TRUSS BRIDGING.
12. PAINT ALL GYPSUM BOARD CEILING AND SOFFITS PT-1 UNLESS NOTED OTHERWISE - SEE FINISH SCHEDULE.
13. FOR ALL EXTERIOR WALL MOUNT LIGHTING SEE EXTERIOR ELEVATIONS AND ELECTRICAL.
14. SEE SHEET A8.20 FOR GENERAL SUSPENDED CEILING DETAILS.
15. HARD LID CEILING AND SOFFITS SPANNING LESS THAN 12'-0" SHALL BE 20 GA. 4" STUDS AT 16" O.C. U.N.O.
16. FOR SUSPENDED CEILING CLOUDS SEE DETAILS C5/C7 ON SHEET A8.20.

RCP LEGEND:

- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-1 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-2 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-3 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - SUSPENDED ACOUSTICAL WOOD CEILING CEILING SYSTEM SC-4 PER ROOM FINISH SCHEDULE
- 09 29 00.99 - GYPSUM BOARD CEILING, SMOOTH LEVEL 4 FINISH, PAINTED PER SCHEDULE
- 07 42 93.02 - PERFORATED SOFFIT
- 9'-0" CEILING HEIGHT A.F.F.
- SEE MECHANICAL FOR SUPPLY, RETURN AND EXHAUST GRILLES
- SEE ELECTRICAL FOR LIGHTING FIXTURES AND CEILING MOUNTED ELECTRICAL DEVICES



KEYPLAN



A1 FIRST FLOOR RCP PLAN - AREA A

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

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ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **FIRST FLOOR RCP PLAN AREA A**

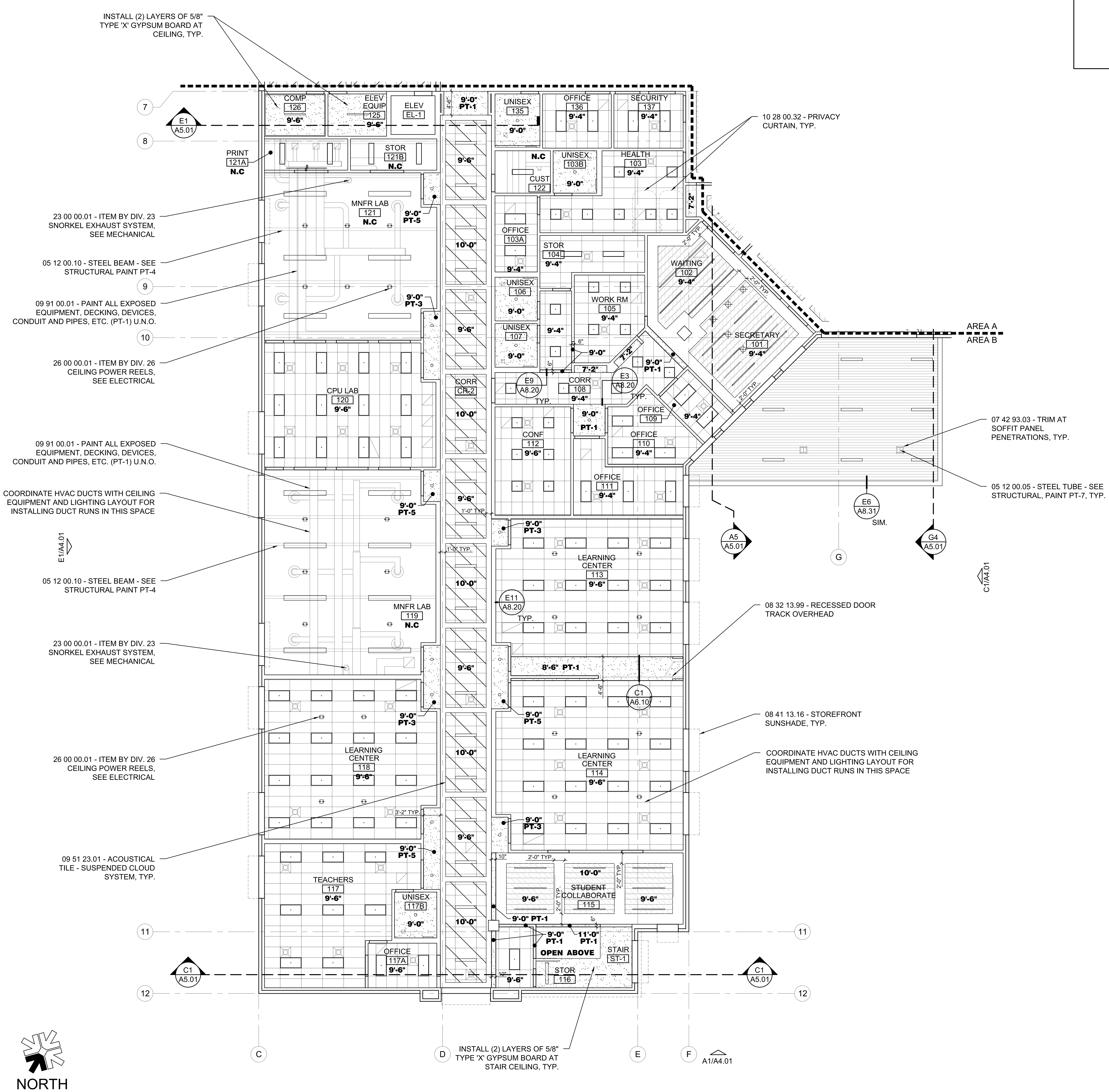
SHEET: **A3.51**

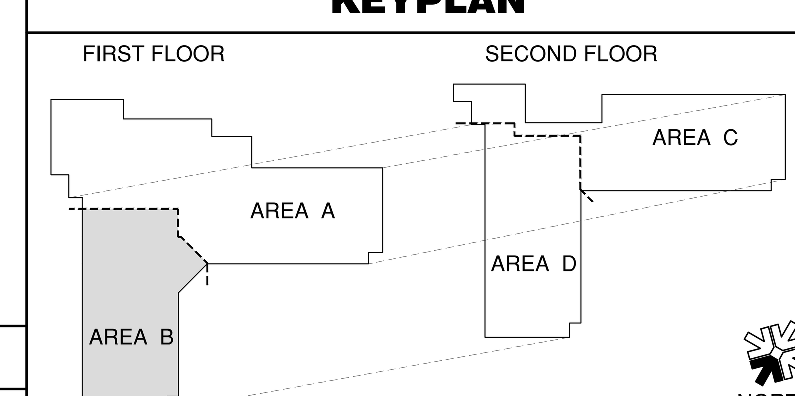
SHEET NOTES

1. SEE SHEET A3.51 FOR SHEET NOTES

RCP LEGEND:

- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-1 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-2 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-3 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - SUSPENDED ACOUSTICAL WOOD CEILING CEILING SYSTEM SC-4 PER ROOM FINISH SCHEDULE
- 09 29 00.99 - GYPSUM BOARD CEILING, SMOOTH LEVEL 4 FINISH, PAINTED PER SCHEDULE
- 07 42 93.02 - PERFORATED SOFFIT
- 9'-0" CEILING HEIGHT A.F.F.
- SEE MECHANICAL FOR SUPPLY, RETURN AND EXHAUST GRILLES
- SEE ELECTRICAL FOR LIGHTING FIXTURES AND CEILING MOUNTED ELECTRICAL DEVICES





A1 **FIRST FLOOR RCP PLAN - AREA B**

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

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PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **FIRST FLOOR RCP PLAN AREA B**

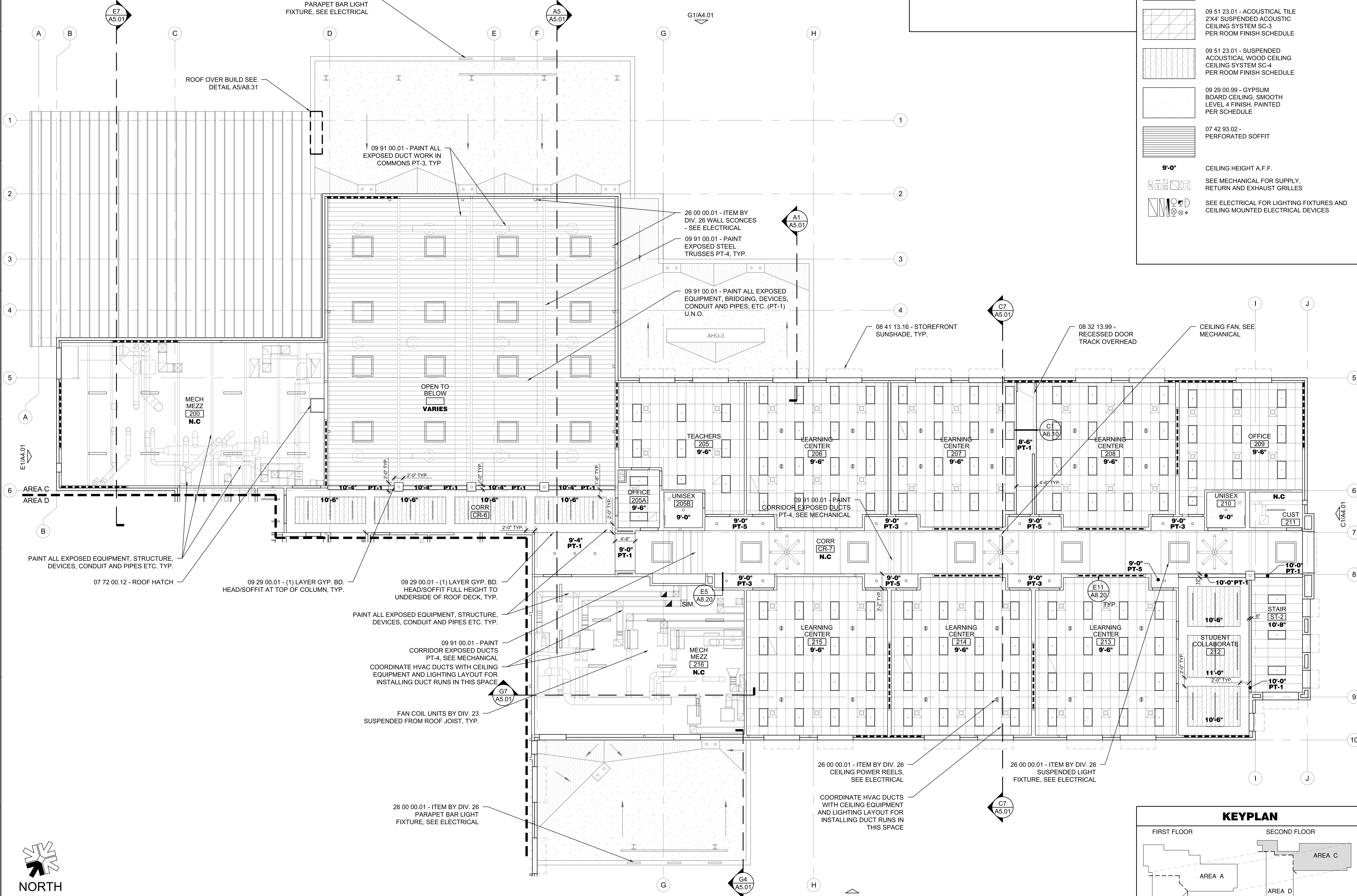
SHEET: **A3.52**

SHEET NOTES

1. SEE SHEET A3.51 FOR SHEET NOTES

RCP LEGEND:

	09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-1 PER ROOM FINISH SCHEDULE
	09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-2 PER ROOM FINISH SCHEDULE
	09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-3 PER ROOM FINISH SCHEDULE
	09 51 23.01 - SUSPENDED ACOUSTICAL WOOD CEILING CEILING SYSTEM SC-4 PER ROOM FINISH SCHEDULE
	09 29 00.99 - GYPSUM BOARD CEILING, SMOOTH LEVEL 4 FINISH, PAINTED PER SCHEDULE
	07 42 93.02 - PERFORATED SOFFIT
9'-0"	CEILING HEIGHT A.F.F.
	SEE MECHANICAL FOR SUPPLY, RETURN AND EXHAUST GRILLES
	SEE ELECTRICAL FOR LIGHTING FIXTURES AND CEILING MOUNTED ELECTRICAL DEVICES



A1 **SECOND FLOOR RCP PLAN - AREA C**

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

KEYPLAN

FIRST FLOOR — SECOND FLOOR

AREA A, AREA B, AREA C, AREA D

NORTH

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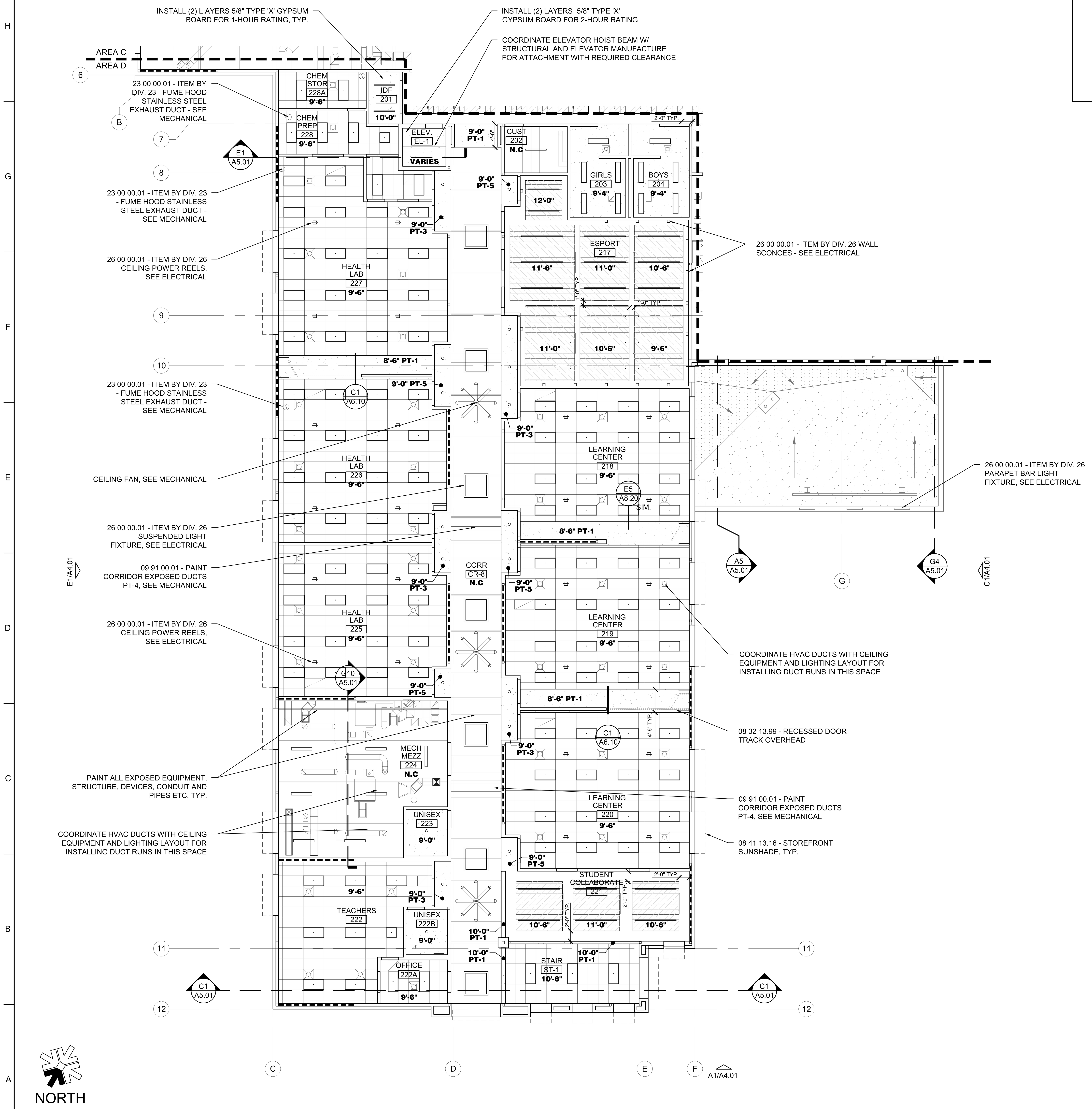
1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **SECOND FLOOR RCP PLAN AREA C**

SHEET: **A3.53**



A1 SECOND FLOOR RCP PLAN - AREA D

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

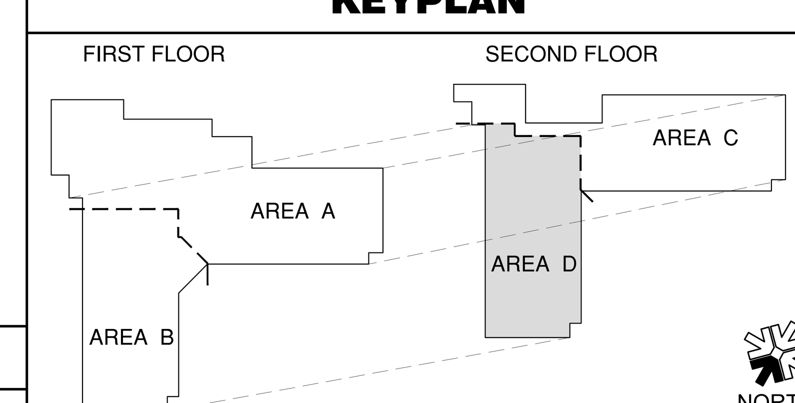
SHEET NOTES

1. SEE SHEET A3.51 FOR SHEET NOTES

RCP LEGEND:

- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-1 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-2 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - ACOUSTICAL TILE 2'X4' SUSPENDED ACOUSTIC CEILING SYSTEM SC-3 PER ROOM FINISH SCHEDULE
- 09 51 23.01 - SUSPENDED ACOUSTICAL WOOD CEILING CEILING SYSTEM SC-4 PER ROOM FINISH SCHEDULE
- 09 29 00.99 - GYPSUM BOARD CEILING, SMOOTH LEVEL 4 FINISH, PAINTED PER SCHEDULE
- 07 42 93.02 - PERFORATED SOFFIT
- 9'-0" CEILING HEIGHT A.F.F.
- SEE MECHANICAL FOR SUPPLY, RETURN AND EXHAUST GRILLES
- SEE ELECTRICAL FOR LIGHTING FIXTURES AND CEILING MOUNTED ELECTRICAL DEVICES

KEYPLAN



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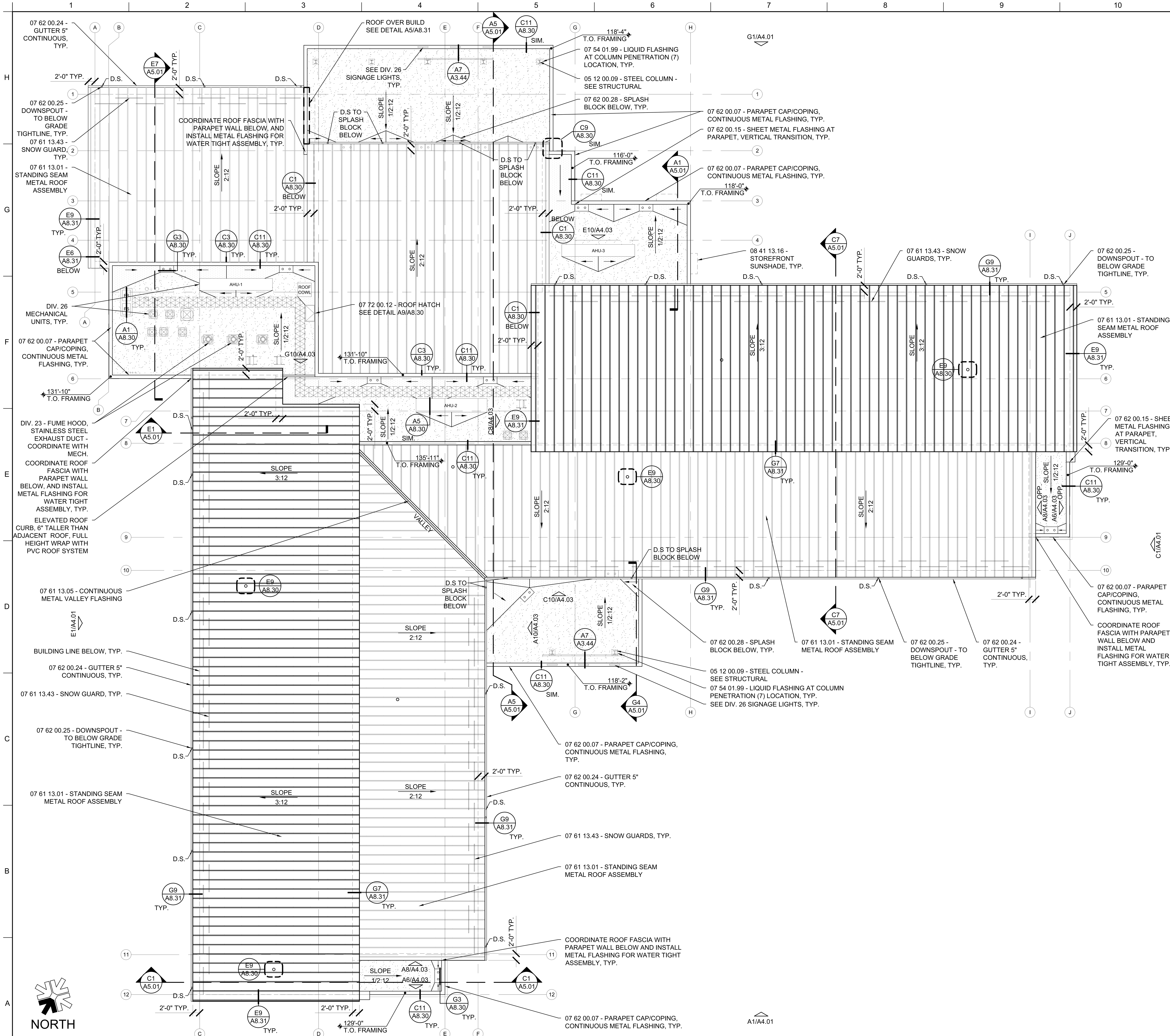
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: SECOND FLOOR RCP PLAN AREA D

SHEET: A3.54



A1 ROOF PLAN

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

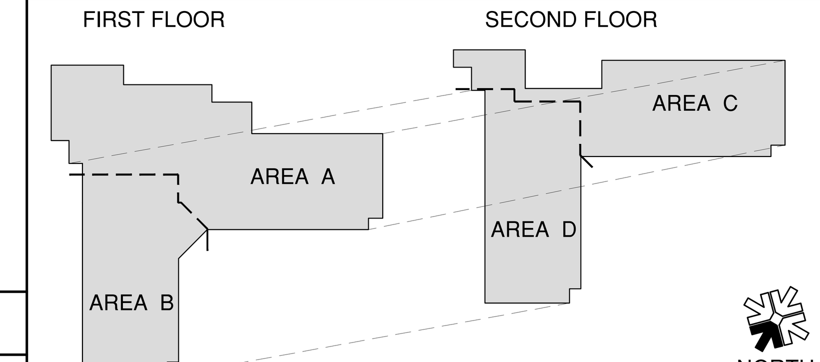
SHEET NOTES

1. SEE SHEET G1.00A FOR SYMBOLS & ABBREVIATIONS.
2. PROVIDE ALL NECESSARY ROOFING ACCESSORIES INCLUDING: REGLETS, BINDER BARS, FLASHING, COLLARS & BOOTS, FASTENERS, ETC. FOR A COMPLETE WARRANTIED ROOF SYSTEM INSTALLATION.
3. PRIOR TO ROOFING INSTALLATION, CONTRACTOR SHALL PHYSICALLY INSPECT ROOF SLOPE TO VERIFY ADEQUATE DRAINAGE.
4. ALL EXPOSED METAL AND FLASHING TO BE PRE-FINISHED SHEET METAL FLASHING AND TRIM (07 62 00). MATCH ADJACENT MATERIAL COLOR BEING FLASHED.
5. VERIFY SIZES AND REQUIREMENTS OF HVAC UNITS AND CURBS WITH MECHANICAL EQUIPMENT MFR. RE: HVAC DRAWINGS & SCHEDULES.
6. VERIFY LOCATIONS AND QUANTITY OF ROOF VENT/ROOF CAP PENETRATIONS WITH HVAC-PLUMBING DRAWINGS. PROVIDE FLASHINGS AND/OR CURBS AS REQ'D. ACCORDING TO ROOF SYSTEM MFR. RECOMMENDED STANDARD DETAILS. SEE DETAILS E5, E7 AND E9 ON SHEET A8.30.
7. REFER TO STRUCTURAL DRAWINGS FOR WALL SUPPORTS AND COORDINATE DURING ROOF FRAMING STAGE IN ORDER TO LOCATE AND ESTABLISH EXACT LOCATIONS OF SUPPLEMENTAL FRAMING FOR ROOF AND WALL OPENINGS.
8. SLOPE FINISH SURFACE MIN. 1/4" PER FT. TO DRAIN AT CRICKET AREAS TYP.
9. PROVIDE CRICKET AT ALL ROOF EQUIPMENT.
10. PROVIDE SNOW MELT HEAT TRACE AT ALL ROOF DRAINS, DOWNSPOUTS AND GUTTERS. SEE ELECTRICAL AND E1/A8.30

LEGEND

- 07 61 13.01 - STANDING SEAM METAL ROOF ASSEMBLY
- 07 54 01.99 - PVC ROOFING SYSTEM WITH RIGID INSULATION
- 07 54 01.99 - PVC ROOFING SYSTEM CRICKET AREAS (TAPERED INSULATION)
- 07 54 00.13 - WALKWAY PADS - 36" WIDE MINIMUM, COORDINATE WITH MECHANICAL LINES TO MINIMIZE INTERSECTIONS
- 07 61 13.43 - SNOW GUARDS TWO ROWS IN 8'-0" SECTIONS, CLAMP TO ROOF SEAM
- DRAINAGE SHALL FOLLOW DIRECTION OF ARROW
- D.S. 07 62 00.25 - DOWNSPOUT

KEYPLAN



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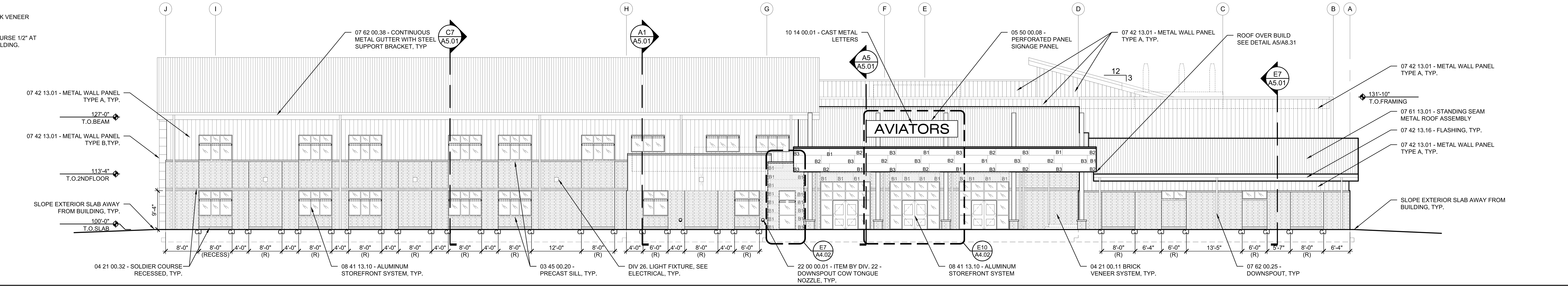
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: ROOF PLAN

SHEET: A3.60

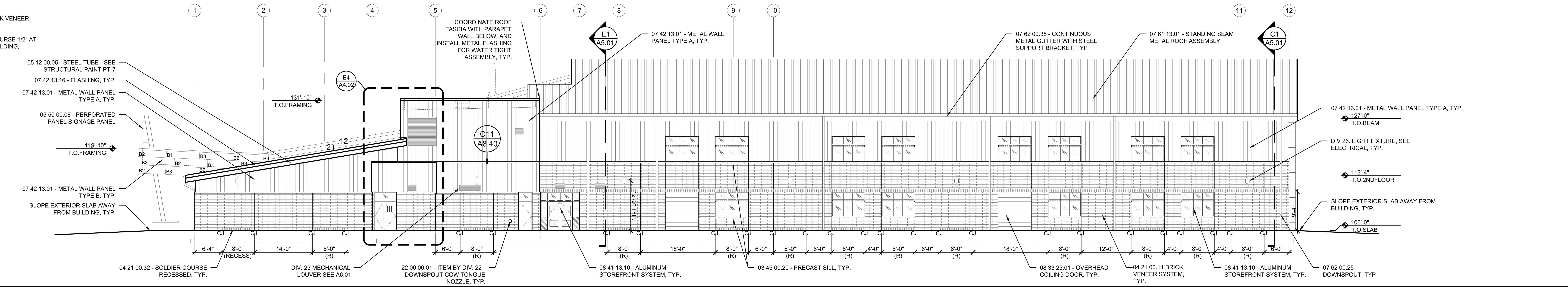
BRICK NOTES:
1. AS NOTED, RECESSED BRICK VENEER WALL ASSEMBLY 1/2".
2. RECESS BRICK SOLDIER COURSE 1/2" AT 9'-4" BAND, ALL AROUND BUILDING.



G1 NORTH ELEVATION NOTE DRAWING SCALE

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

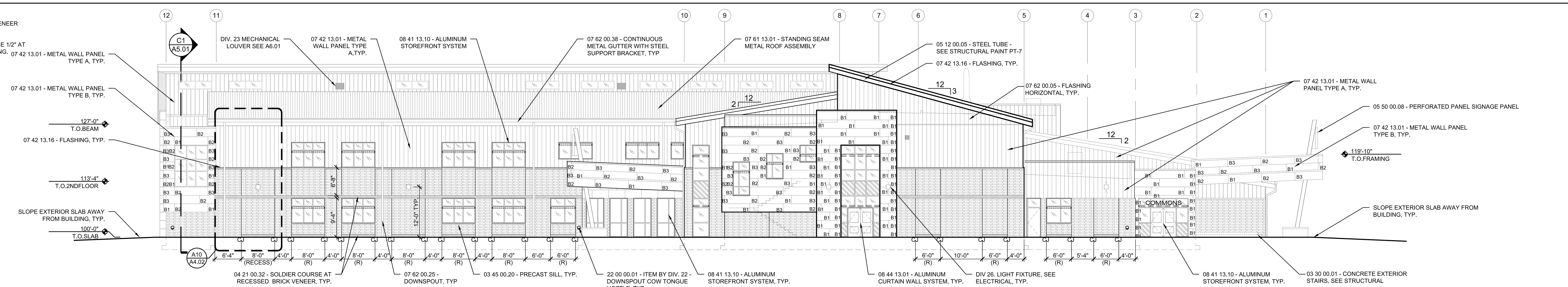
BRICK NOTES:
1. AS NOTED, RECESSED BRICK VENEER WALL ASSEMBLY 1/2".
2. RECESS BRICK SOLDIER COURSE 1/2" AT 9'-4" BAND, ALL AROUND BUILDING.



E1 WEST ELEVATION NOTE DRAWING SCALE

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

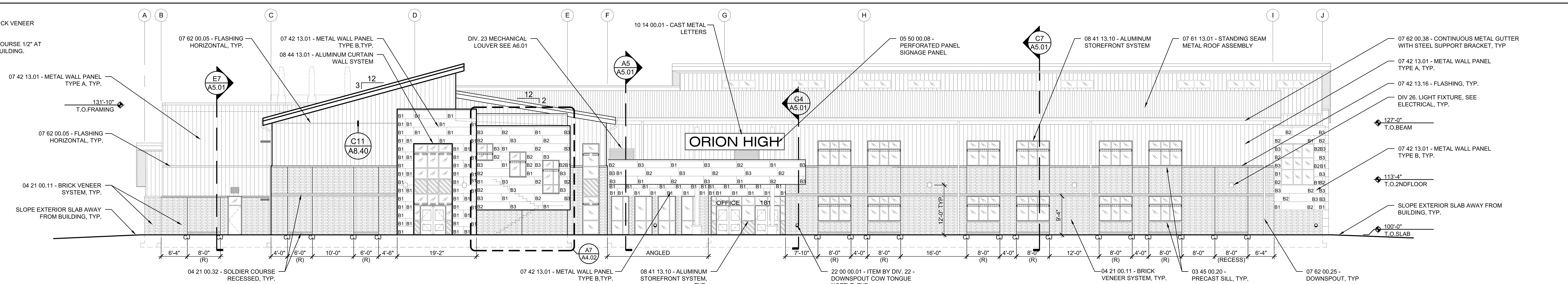
BRICK NOTES:
1. AS NOTED, RECESSED BRICK VENEER WALL ASSEMBLY 1/2".
2. RECESS BRICK SOLDIER COURSE 1/2" AT 9'-4" BAND, ALL AROUND BUILDING.



C1 EAST ELEVATION NOTE DRAWING SCALE

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

BRICK NOTES:
1. AS NOTED, RECESSED BRICK VENEER WALL ASSEMBLY 1/2".
2. RECESS BRICK SOLDIER COURSE 1/2" AT 9'-4" BAND, ALL AROUND BUILDING.



A1 SOUTH ELEVATION NOTE DRAWING SCALE

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

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PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

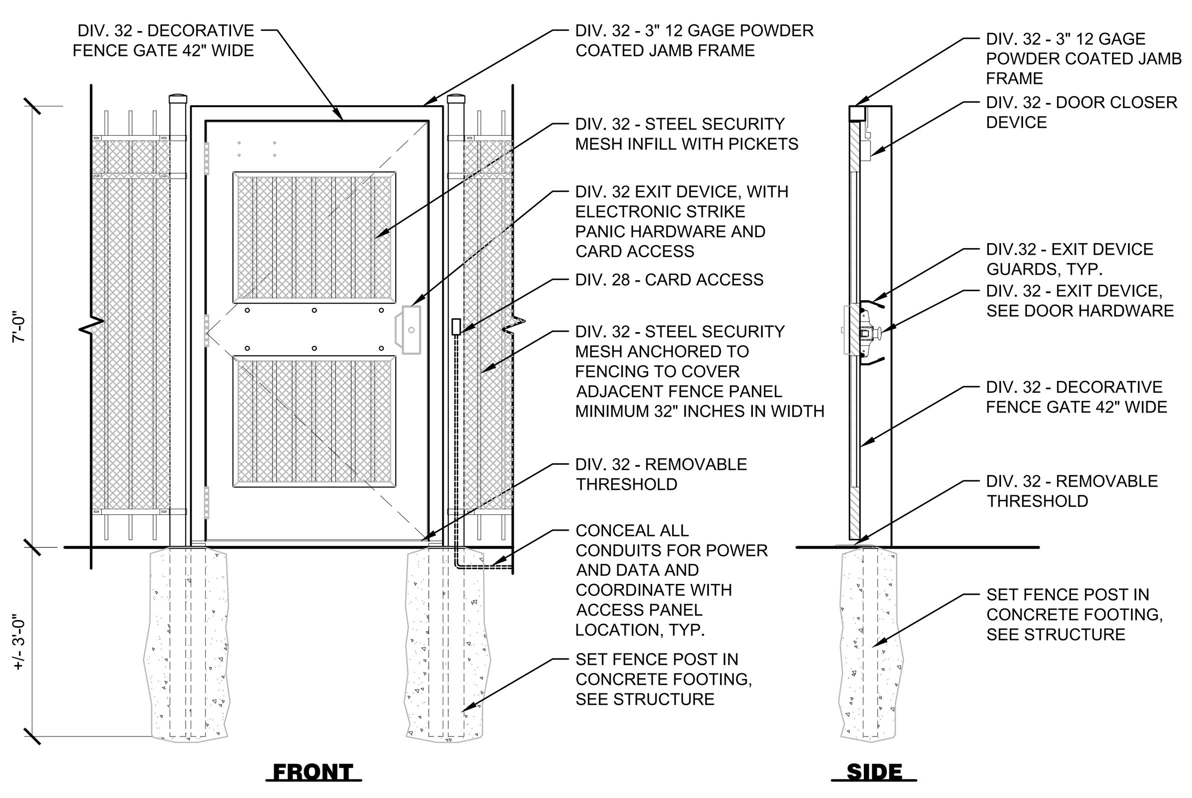
1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **EXTERIOR ELEVATION**

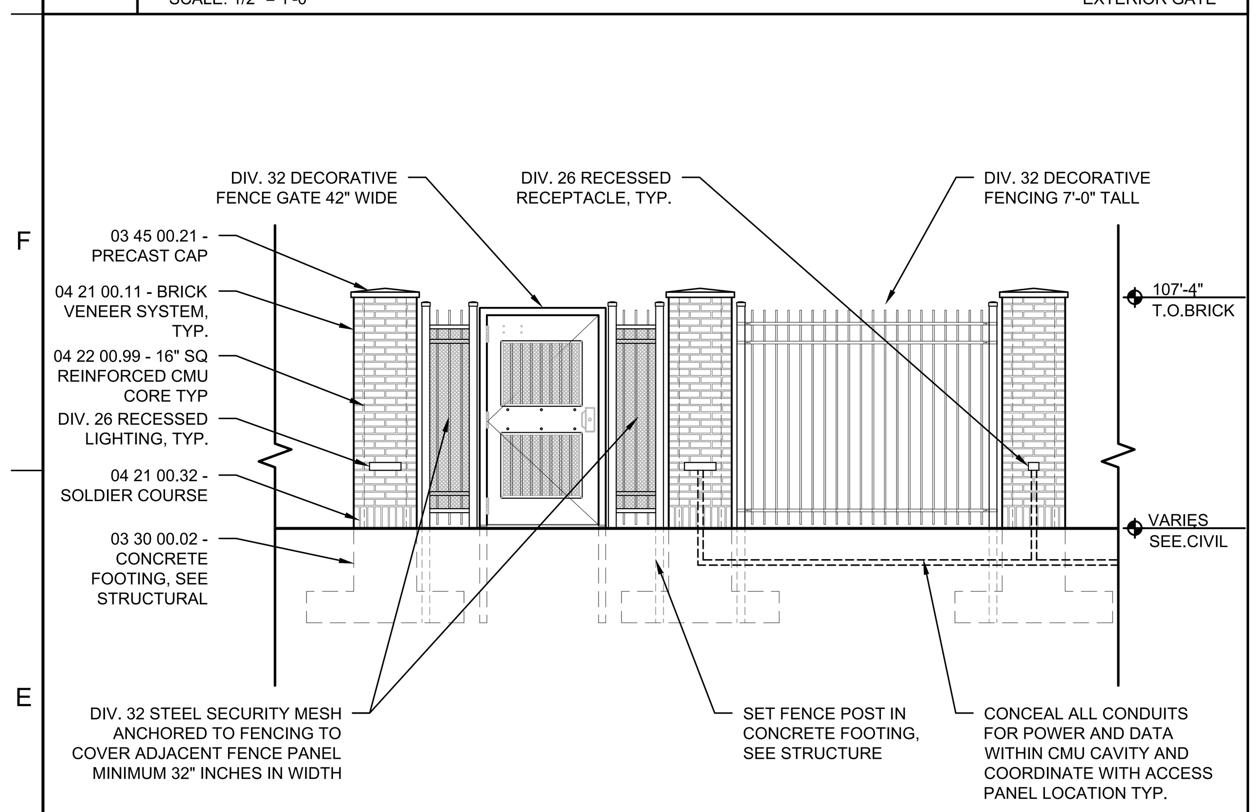
SHEET: **A4.01**

1 2 3 4 5 6 7 8 9 10 11 12



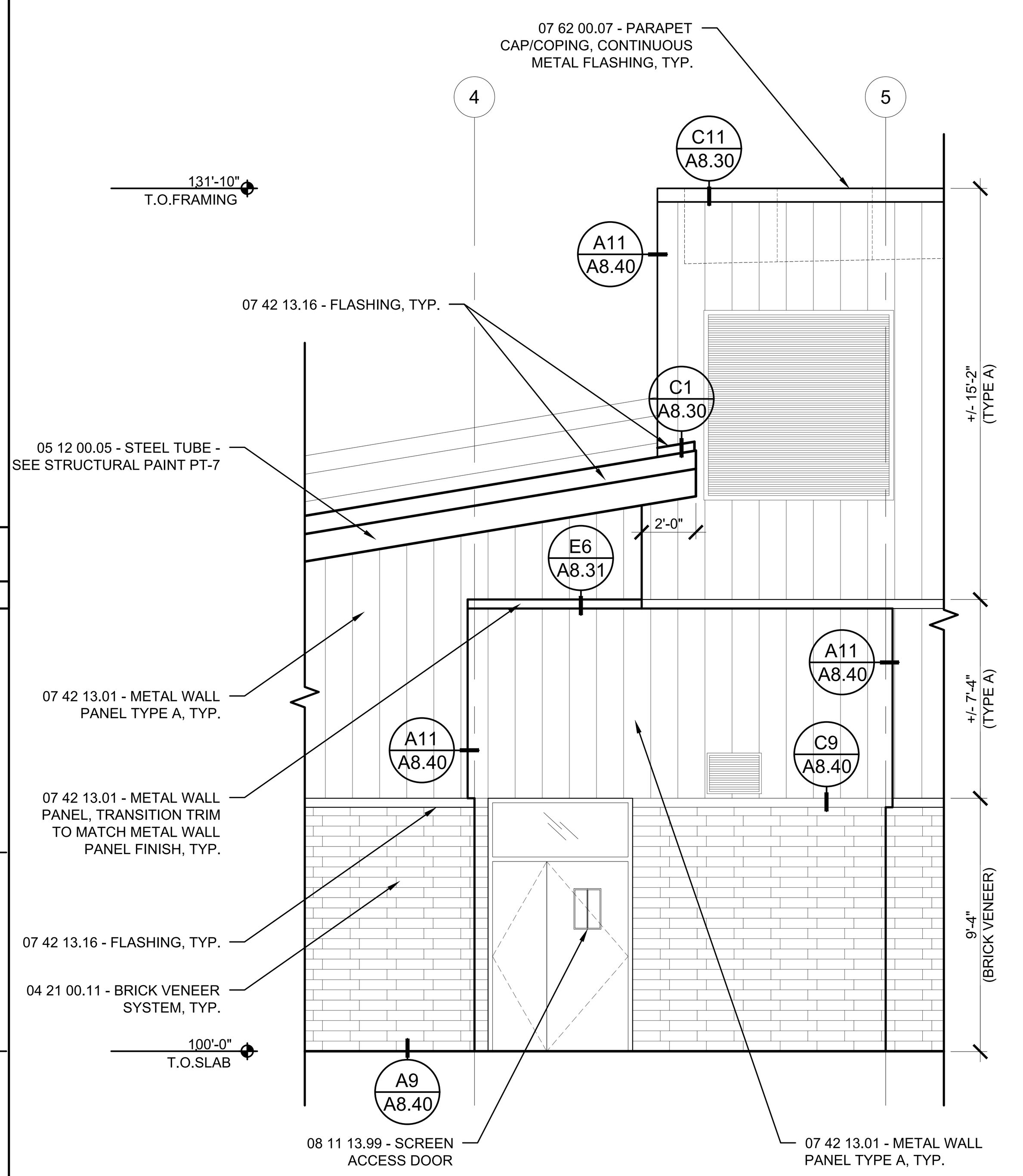
G1 COURTYARD GATE

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



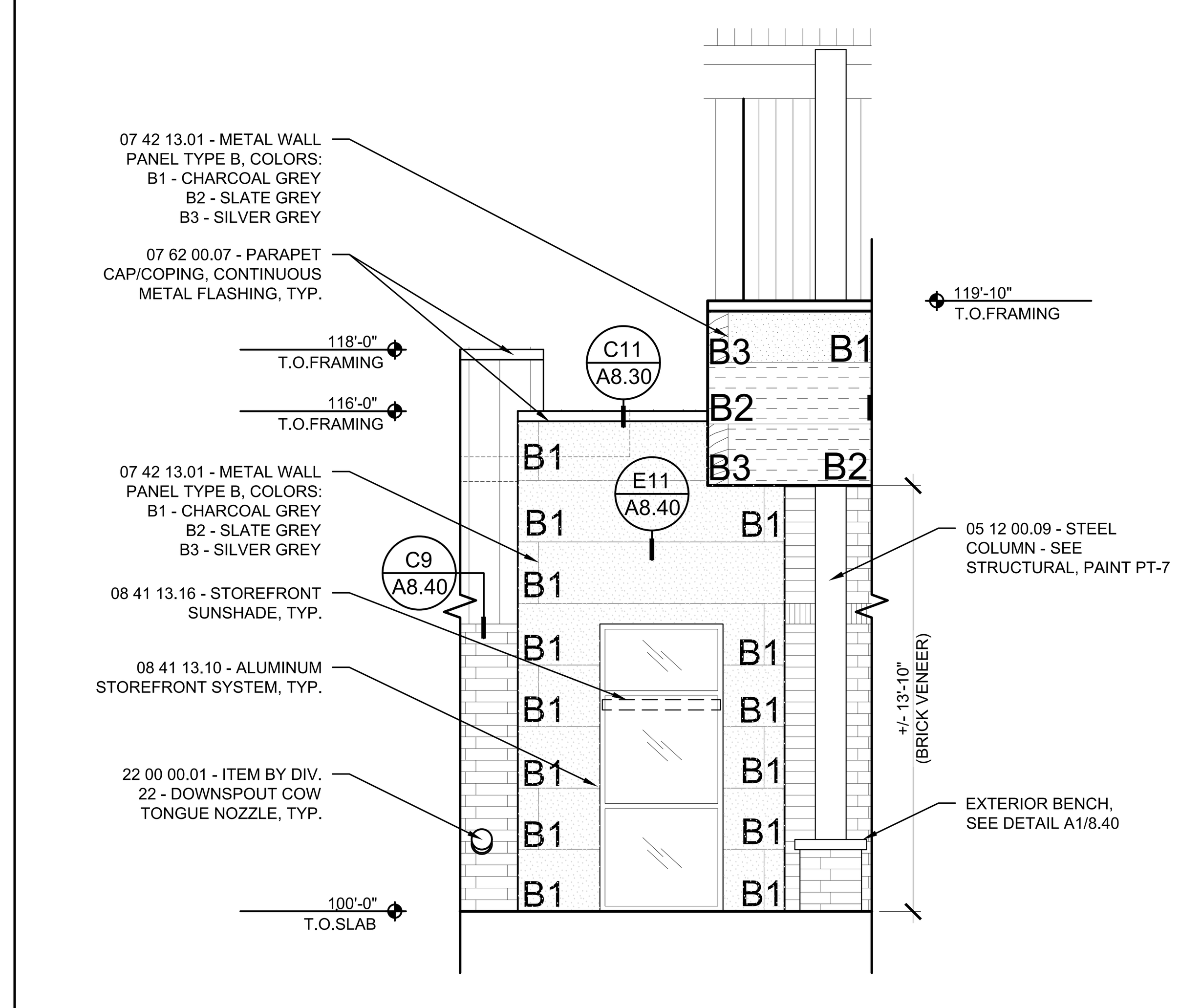
E1 ENLARGED ELEVATION

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



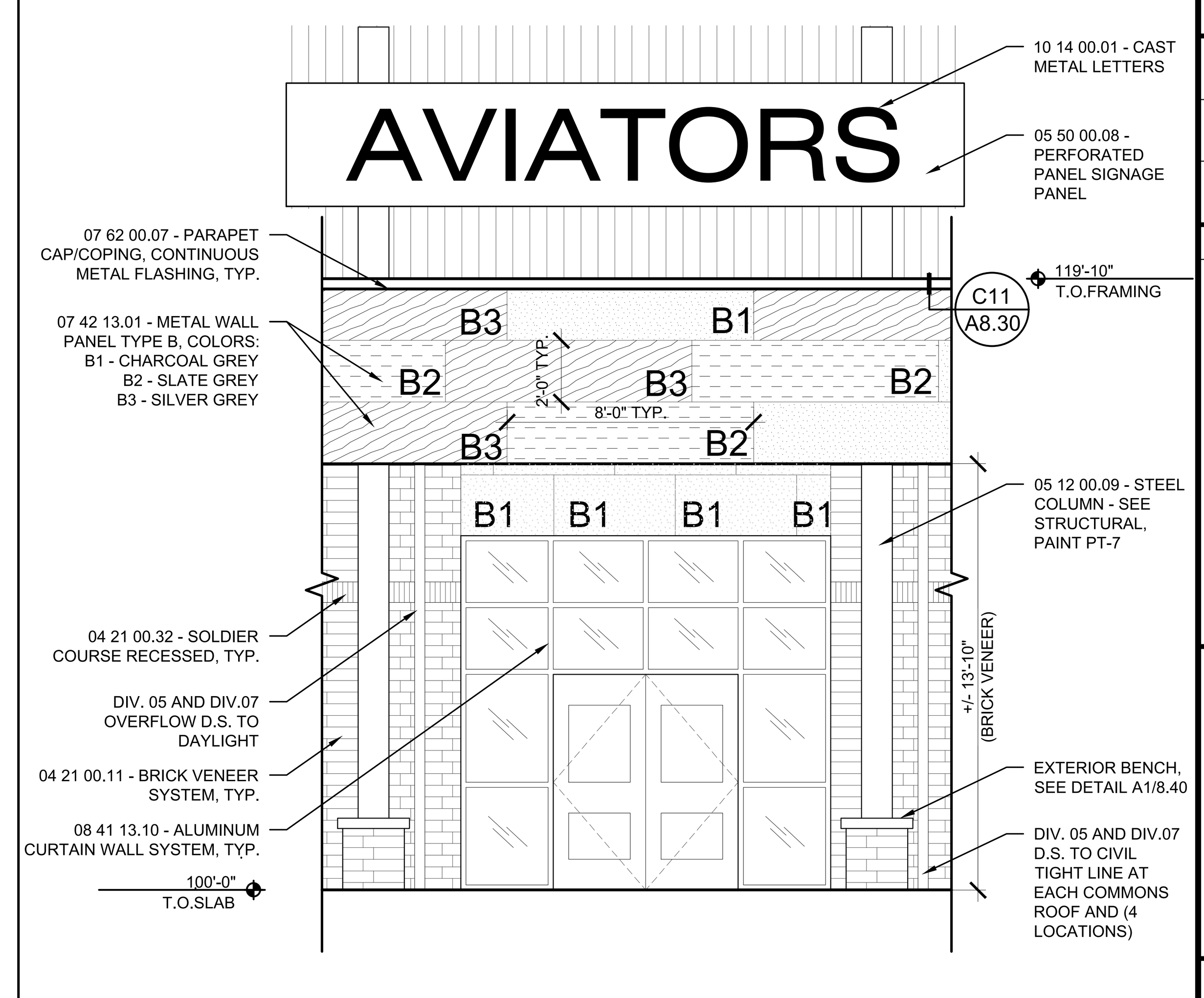
E4 ENLARGED ELEVATION

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



E7 ENLARGED ELEVATION

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



E10 ENLARGED ELEVATION

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

PRODUCT INFORMATION

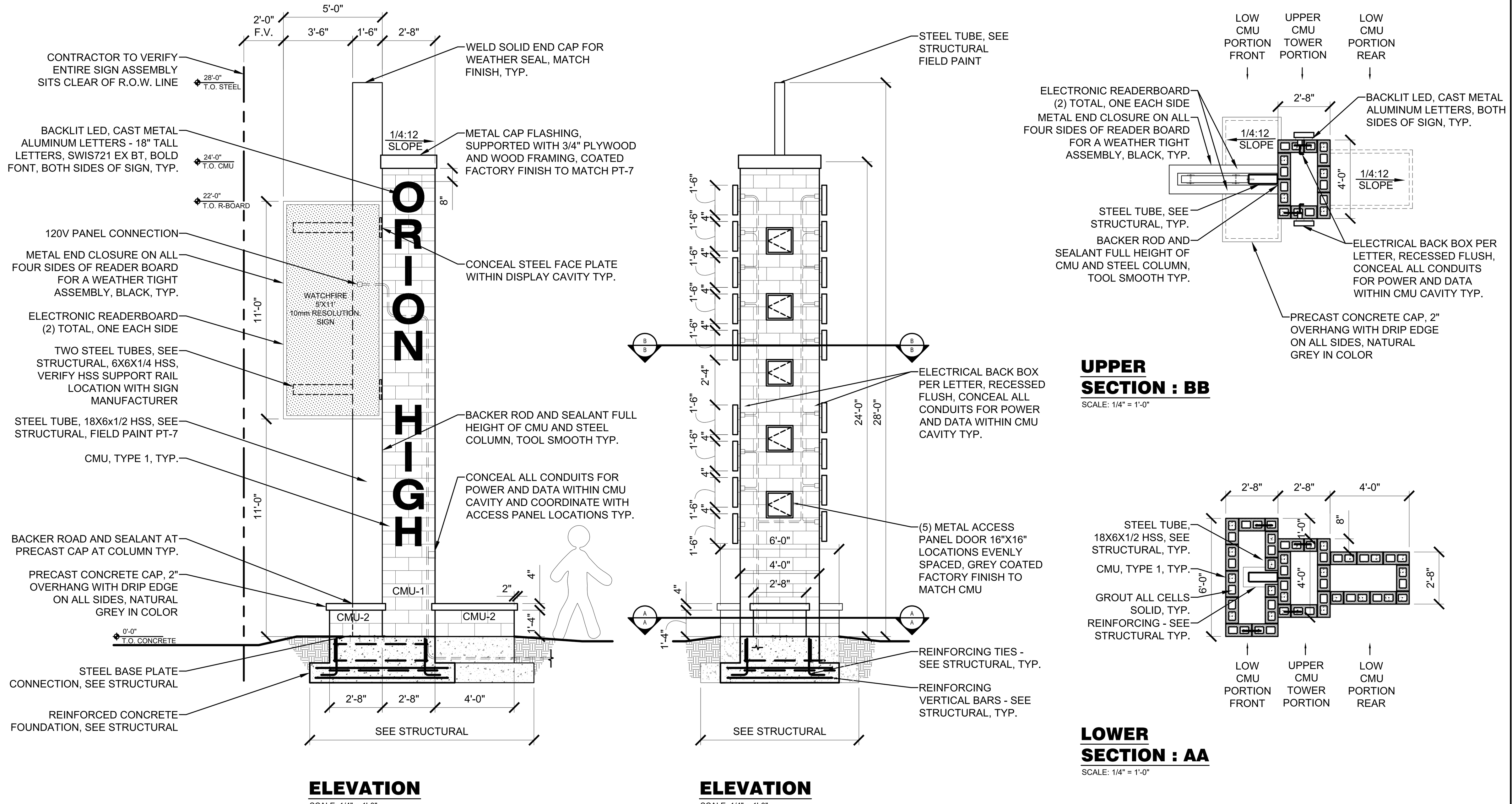
TWO SINGLE FACED ELECTRONIC EXTERIOR READER BOARD, 5' WIDE X 11' TALL, 10mm RESOLUTION, WITH ELECTRONIC READER BOARD CONTROL SOFTWARE. PROVIDE OWNER TRAINING AND SOFTWARE SET UP ONCE READER BOARD IS FULLY FUNCTIONAL. HARDWARE POWER AND DATA TO DISPLAYS PER MANUFACTURE REQUIREMENTS. DISPLAYS SHALL ALSO BE FULLY WIFI ACCESSIBLE, IN-CASE NEEDED IN THE FUTURE.

BACK LIT LED CUSTOM LETTERS - CAST METAL ALUMINUM LETTERS, 18 GAUGE
HEIGHT/FONT: 18" ARIAL BOLD FONT
RETURN DEPTH: 2 INCHES
STAND-OFF DEPTH: 1-1/2 INCHES (SPACERS)
FACE FINISH: BRONZE, BRUSHED; SAME FOR RETURN FINISH
INTERIOR CANS: PAINTED WHITE
LIGHT: WHITE LED, UL LISTED, 60 WATT POWER SUPPLY
MOCKUP: FULL MOCK-UP REQUIRED, PROVIDE SHOP DRAWINGS, FULL LETTER SAMPLE
MOUNTING: CONCEALED REAR STUD, STAINLESS STEEL

SIGN PERMIT

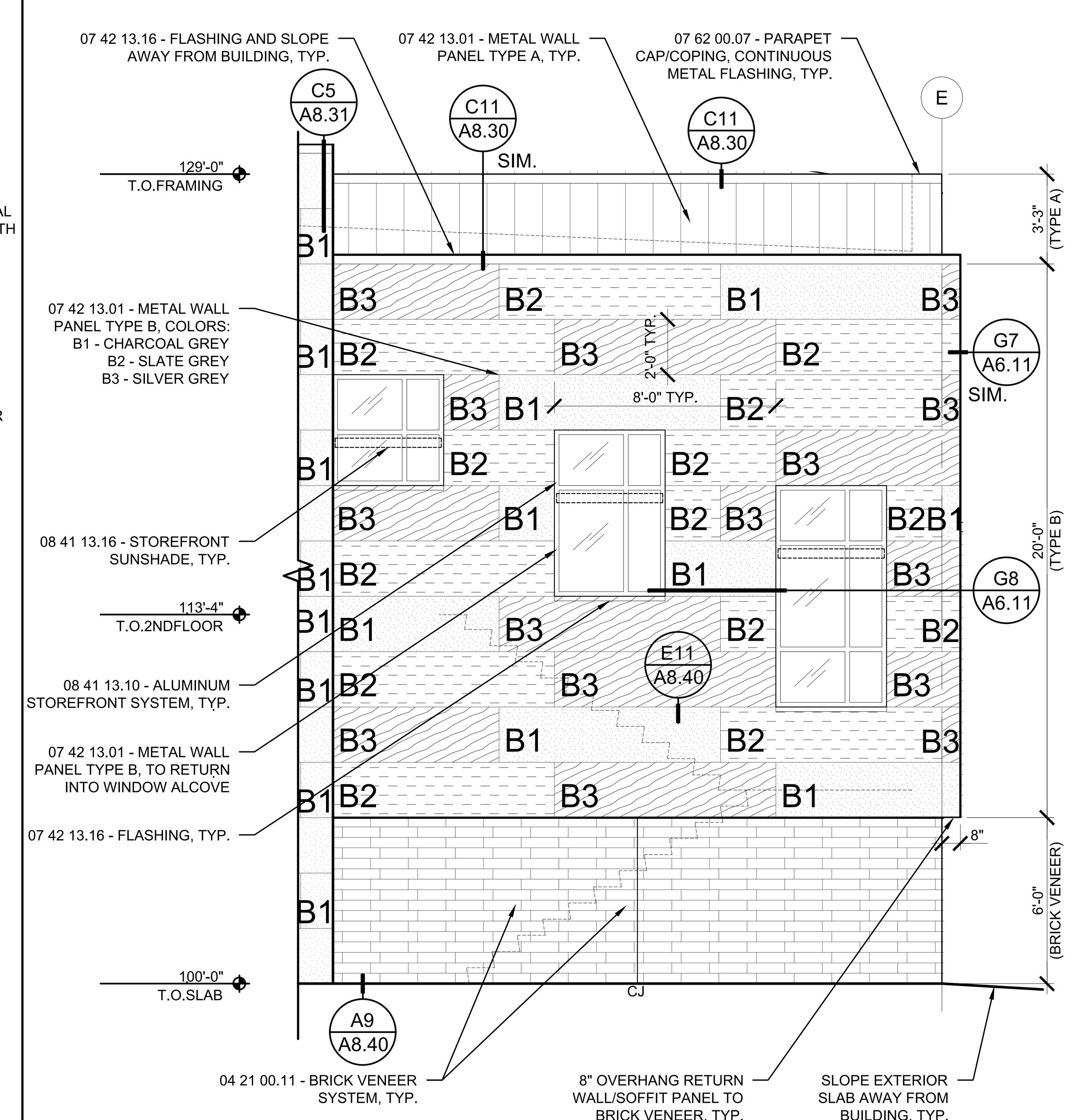
CONTRACTOR SHALL COMPLETE ALL SIGN PERMIT APPLICATION, COORDINATION, AND PAYMENT OF FEES TO CITY OF PASCO. PROVIDE SHOP DRAWINGS TO AHJ AS REQUIRED FOR CITY SIGNAGE PERMIT. VERIFY EXISTING EASEMENTS, RIGHT-OF-WAY REQUIREMENTS AND PROPERTY LINES PRIOR TO STARTING CONSTRUCTION OF READER BOARD. REVIEW EXACT LOCATION WITH OWNER.

COMPLETE SIGN BASE CONSTRUCTION AND RELATED CONNECTION OF POWER AND DATA FOR A FULLY FUNCTIONING READER BOARD SYSTEM WITH BACK-LIT LETTER SIGNAGE.



A1 READER BOARD

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

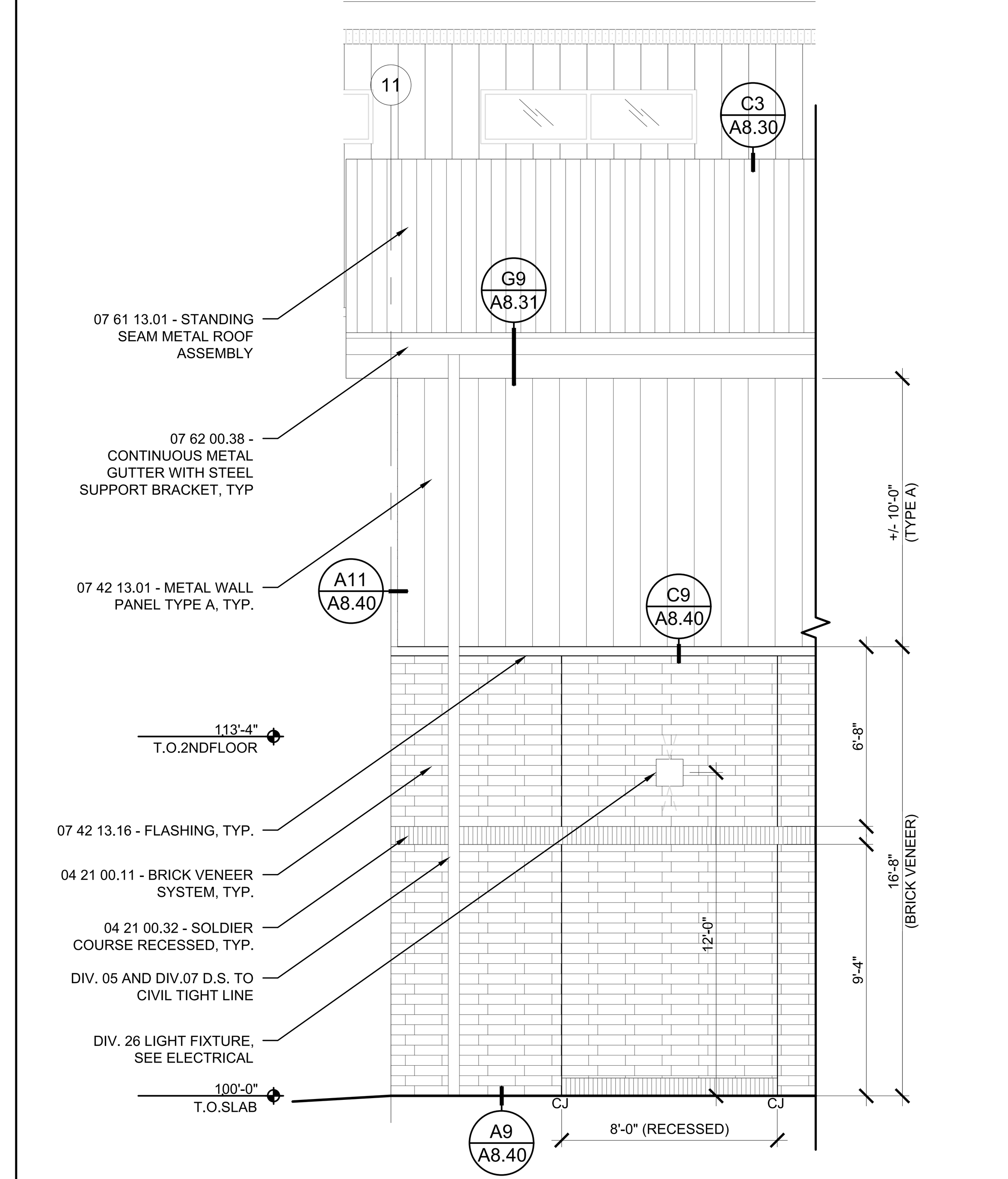


A7 ENLARGED ELEVATION

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

BRICK NOTES:

1. AS NOTED, RECESSED BRICK VENEER WALL ASSEMBLY 1/2".
2. RECESS BRICK SOLDIER COURSE 1/2" AT 9'-4" BAND, ALL AROUND BUILDING.



A10 ENLARGED ELEVATION

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

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PASCO SCHOOL DISTRICT #1

9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

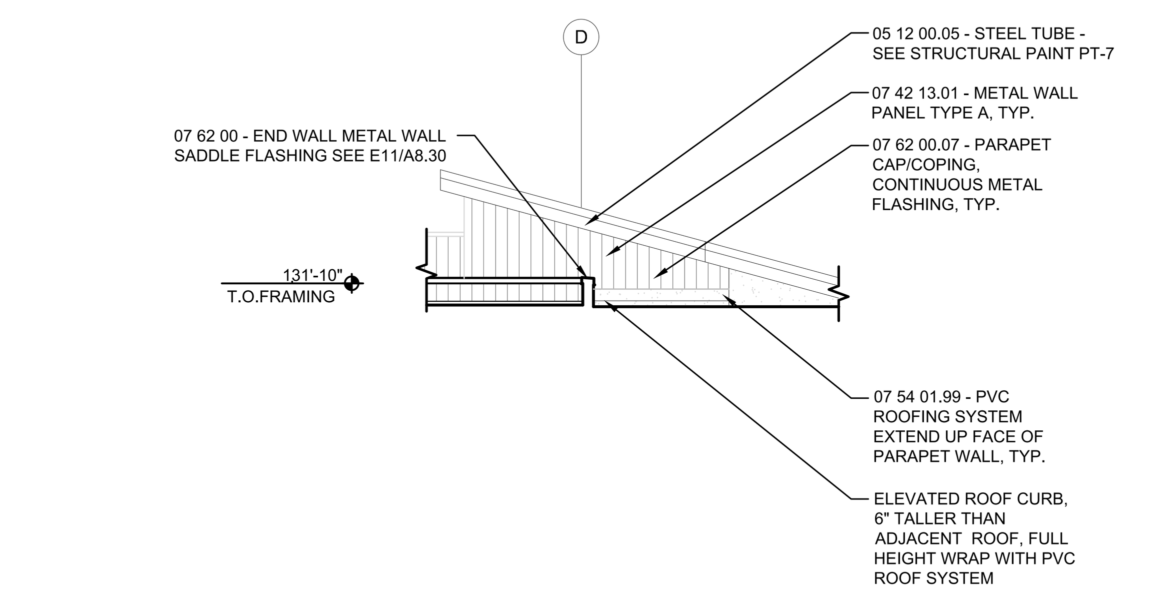
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE 12/18/2023

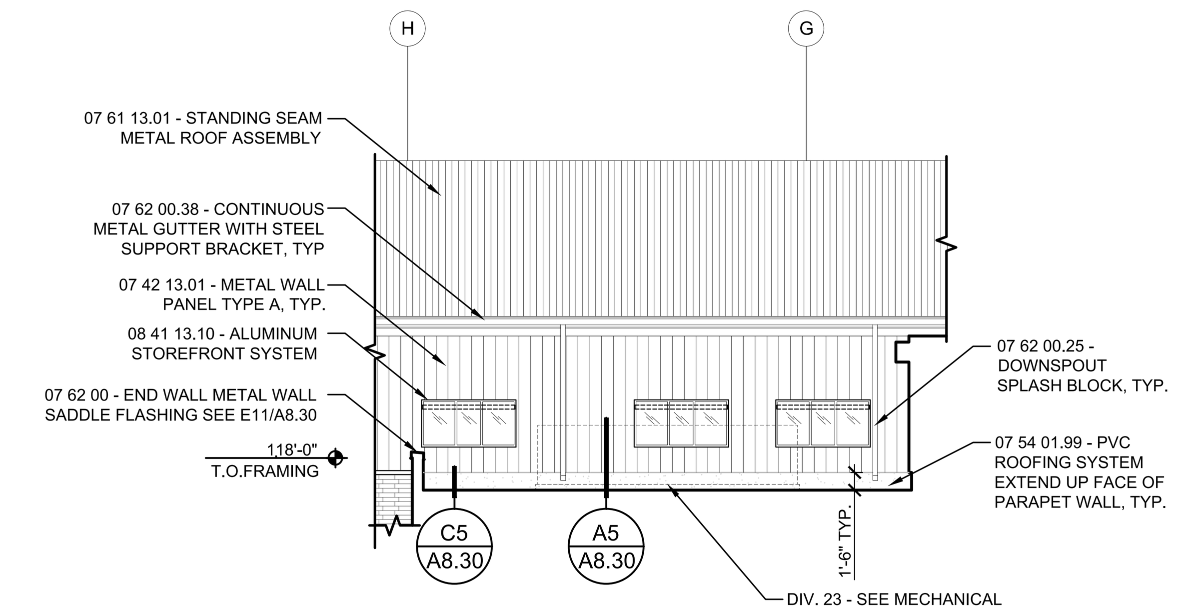
SHEET NAME
ENLARGED EXTERIOR ELEVATION

SHEET
A4.02

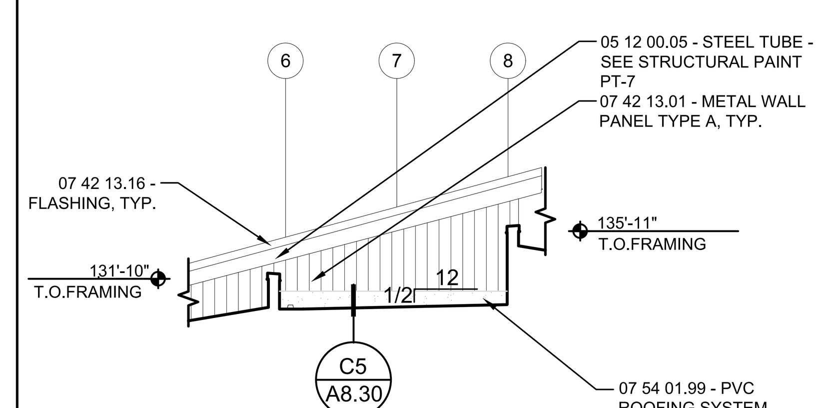
1 2 3 4 5 6 7 8 9 10 11 12



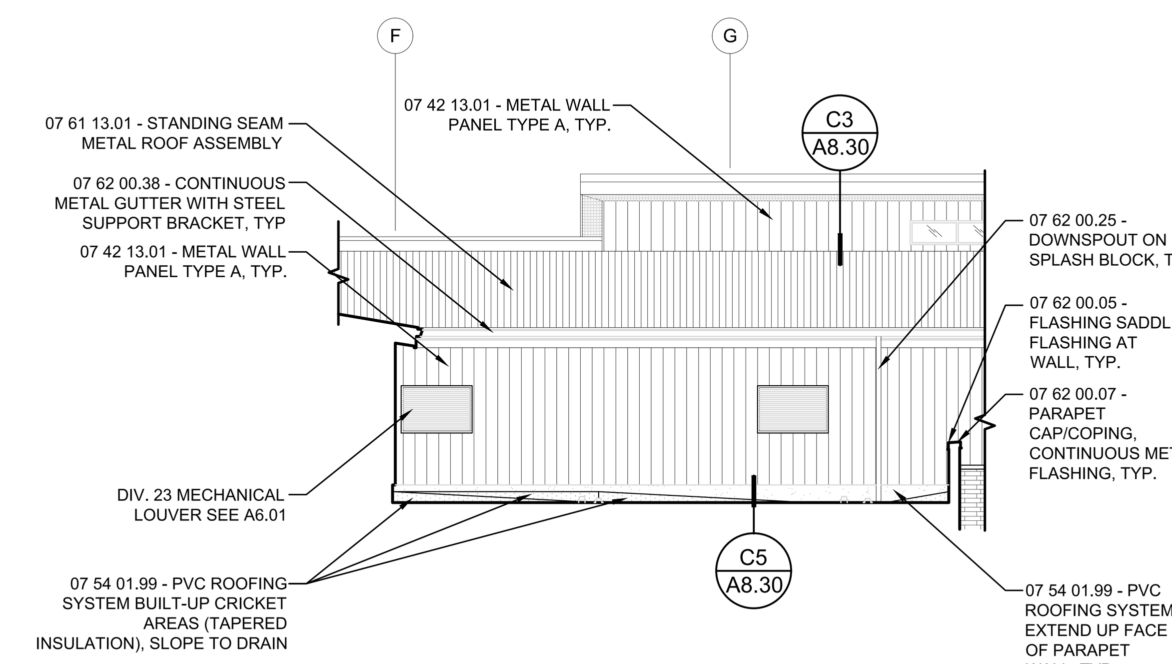
G10 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"



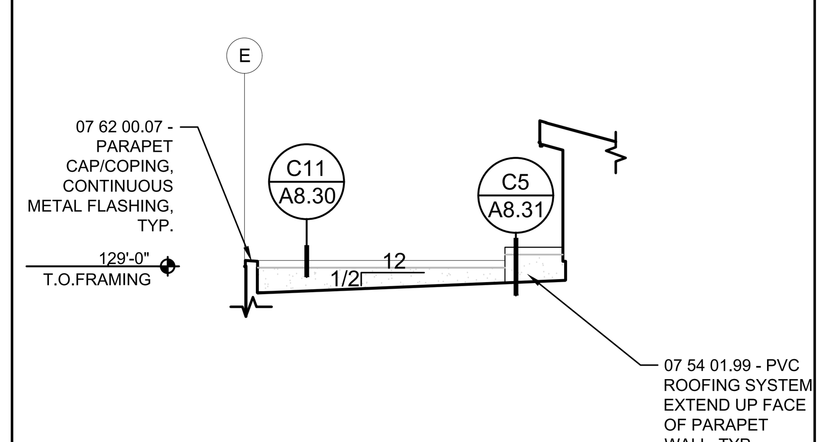
E10 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"



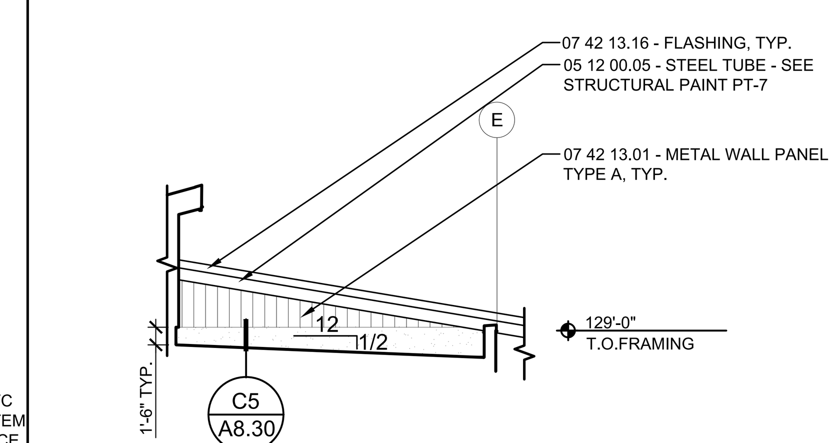
C8 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"



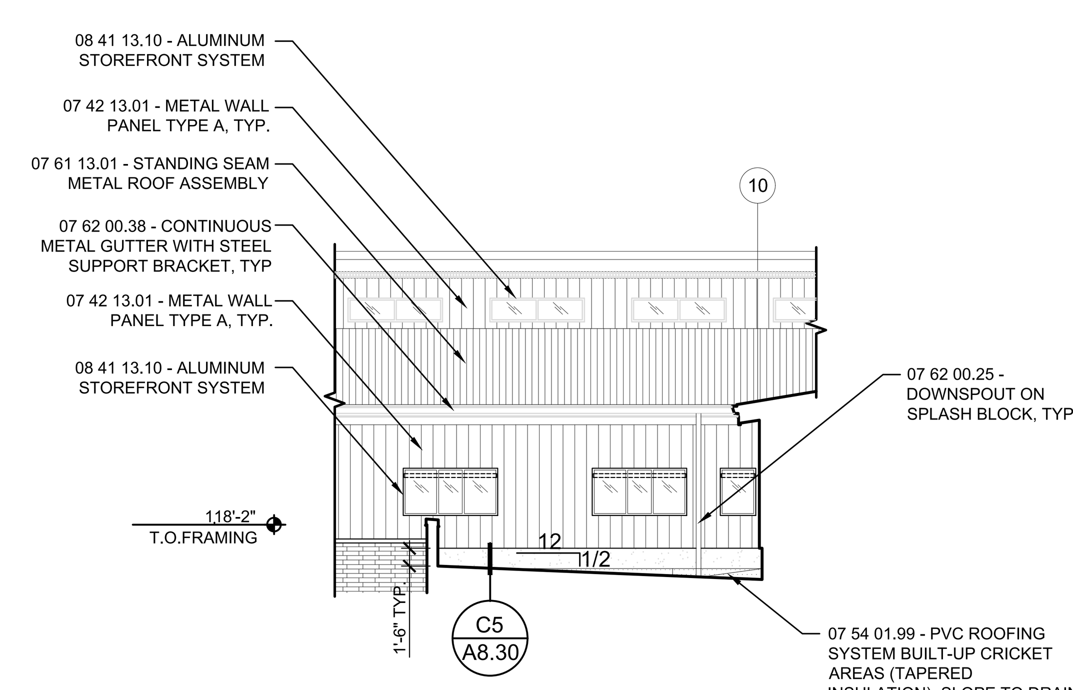
C10 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"



A6 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"



A8 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"



A10 ROOF ELEVATION (NOTE DRAWING SCALE)
SCALE: 3/32" = 1'-0"

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PASCO, WASHINGTON 99301

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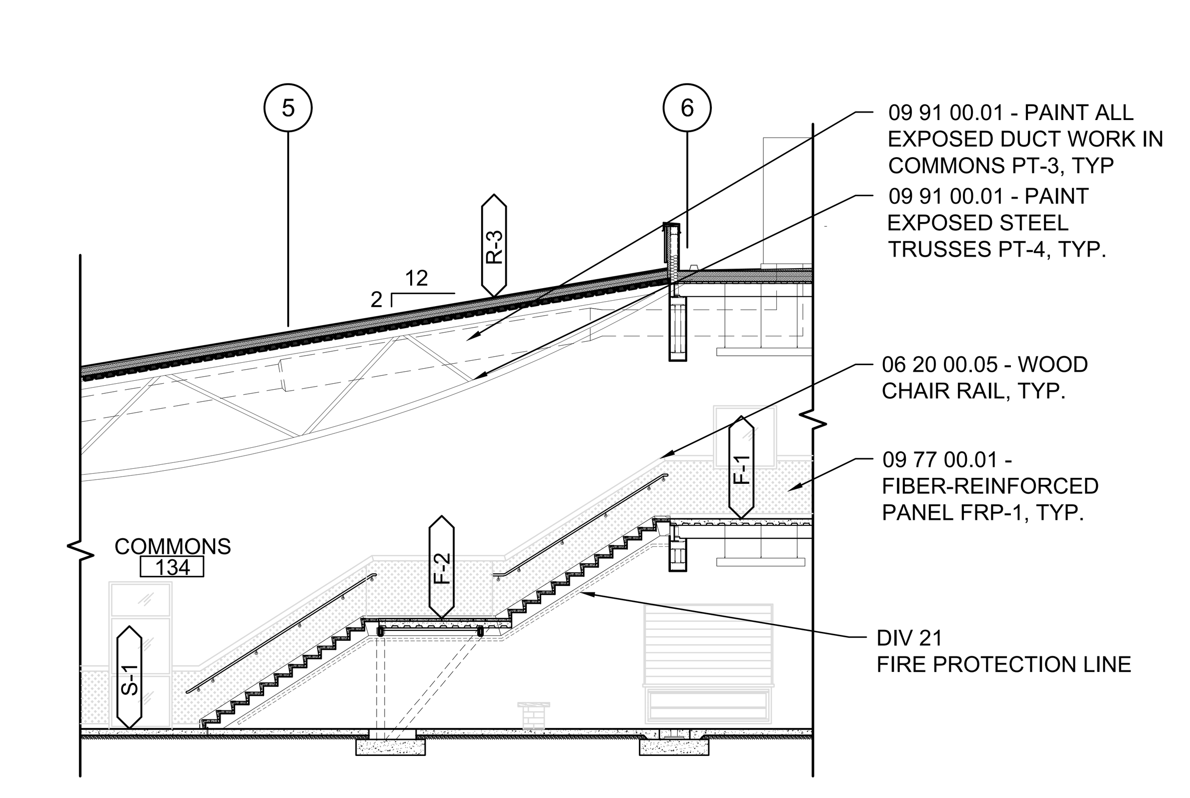
12/18/2023

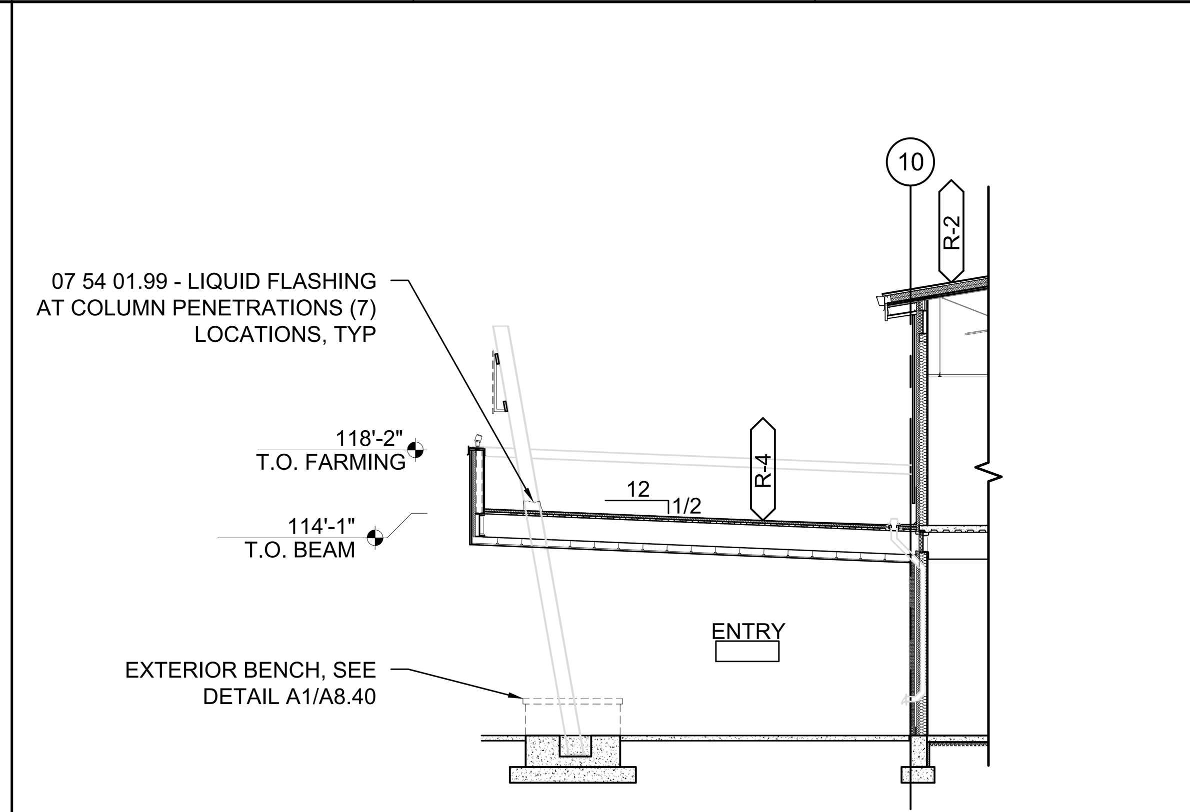
SHEET NAME
ROOF EXTERIOR ELEVATION

SHEET
A4.03



G1 BUILDING SECTION

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



G4 BUILDING SECTION

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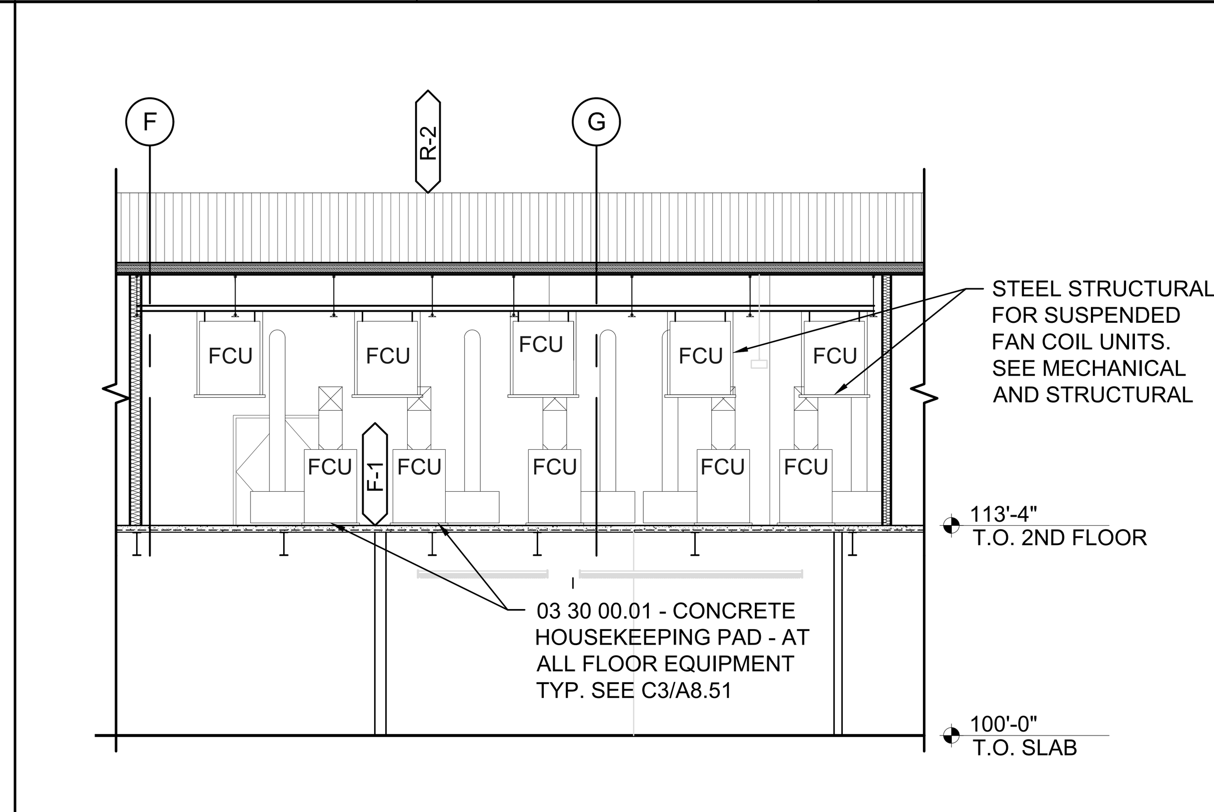
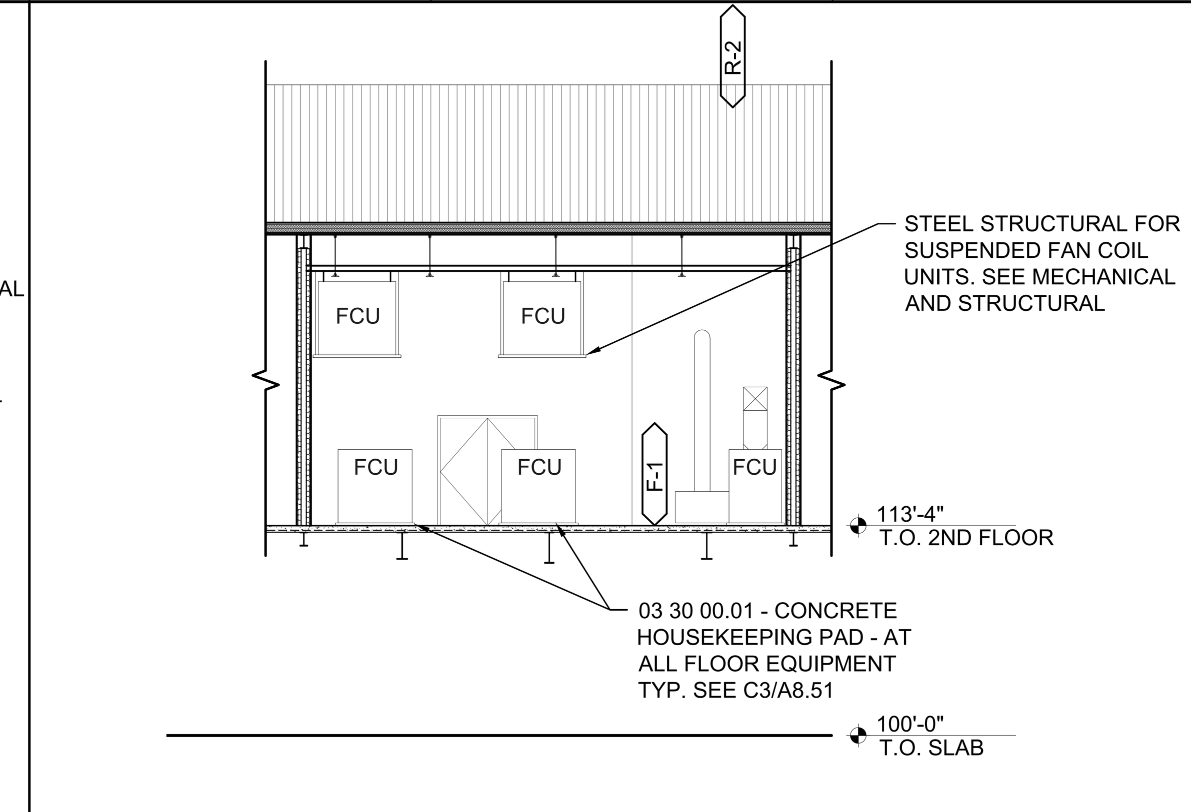


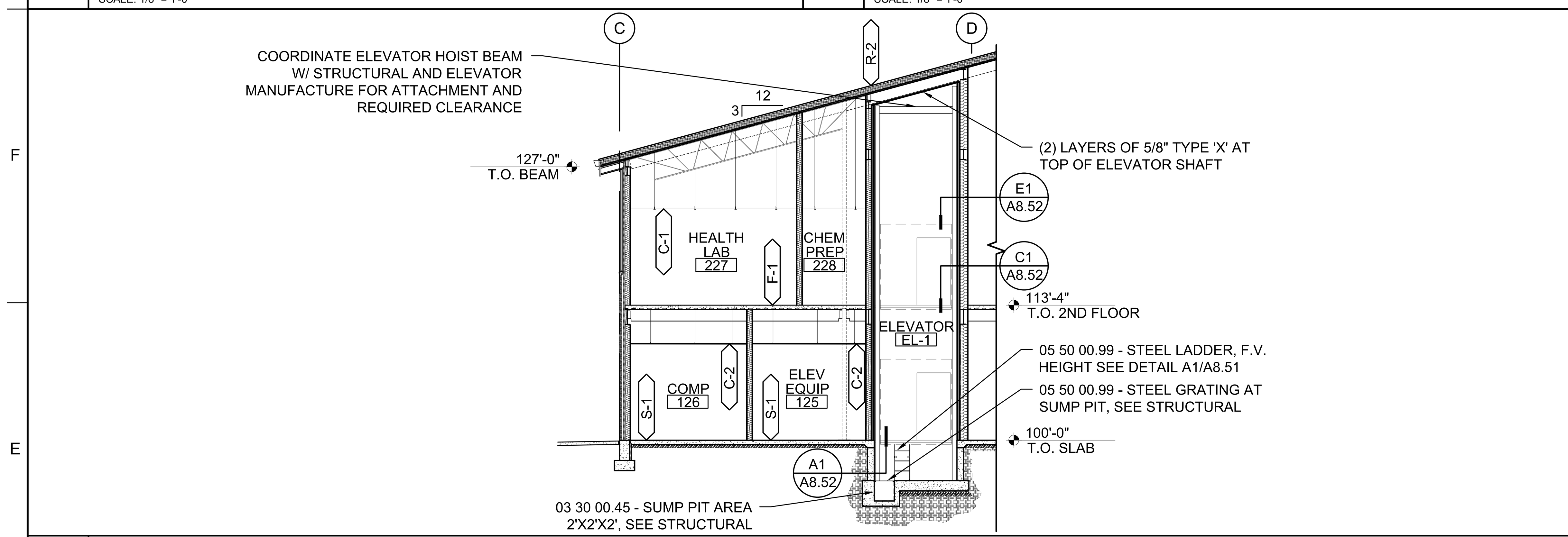
G7 BUILDING SECTION

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



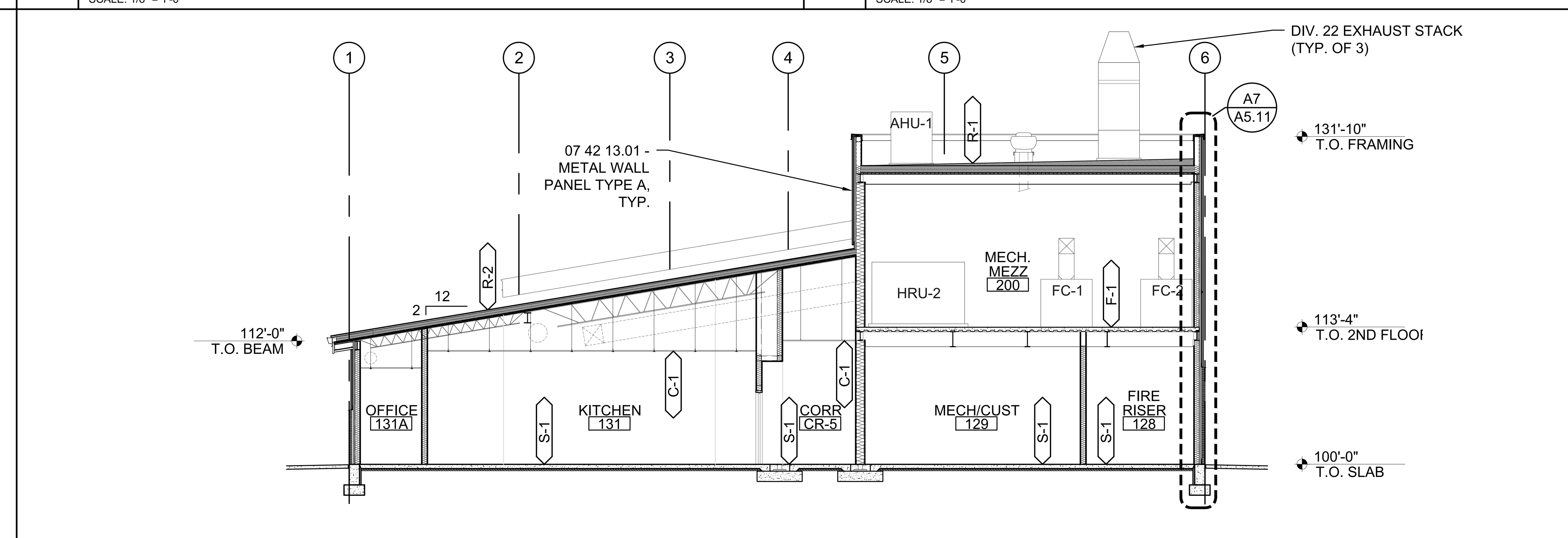
G10 BUILDING SECTION

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



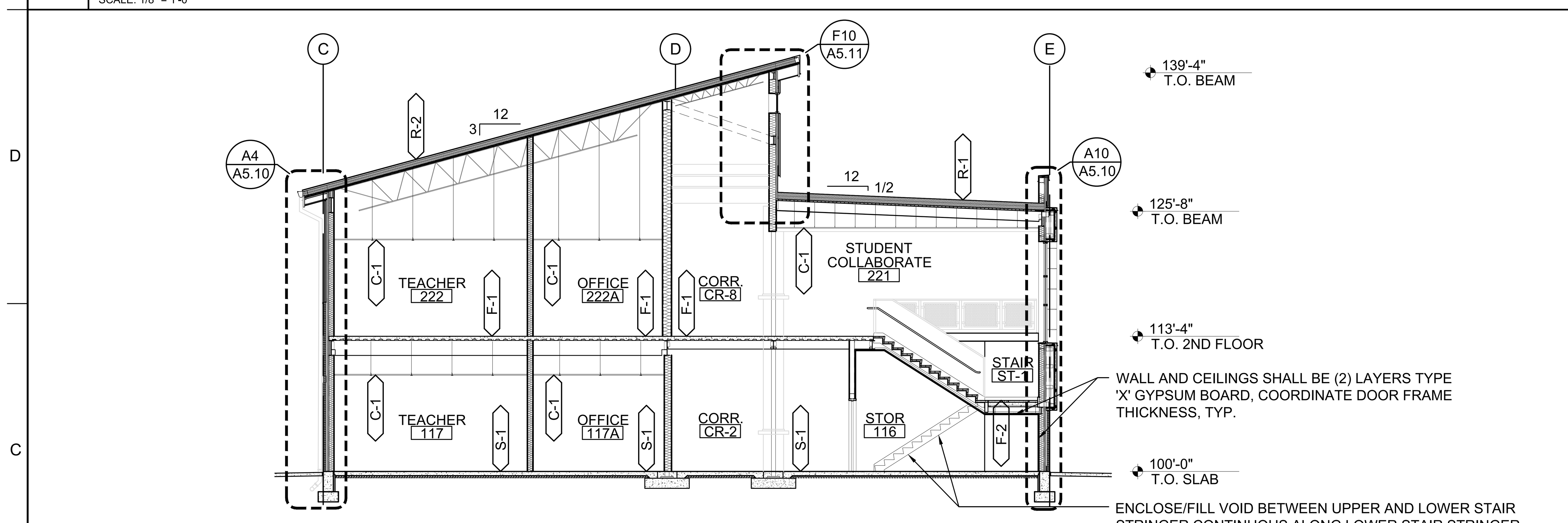
E1 BUILDING SECTION

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



E7 BUILDING SECTION

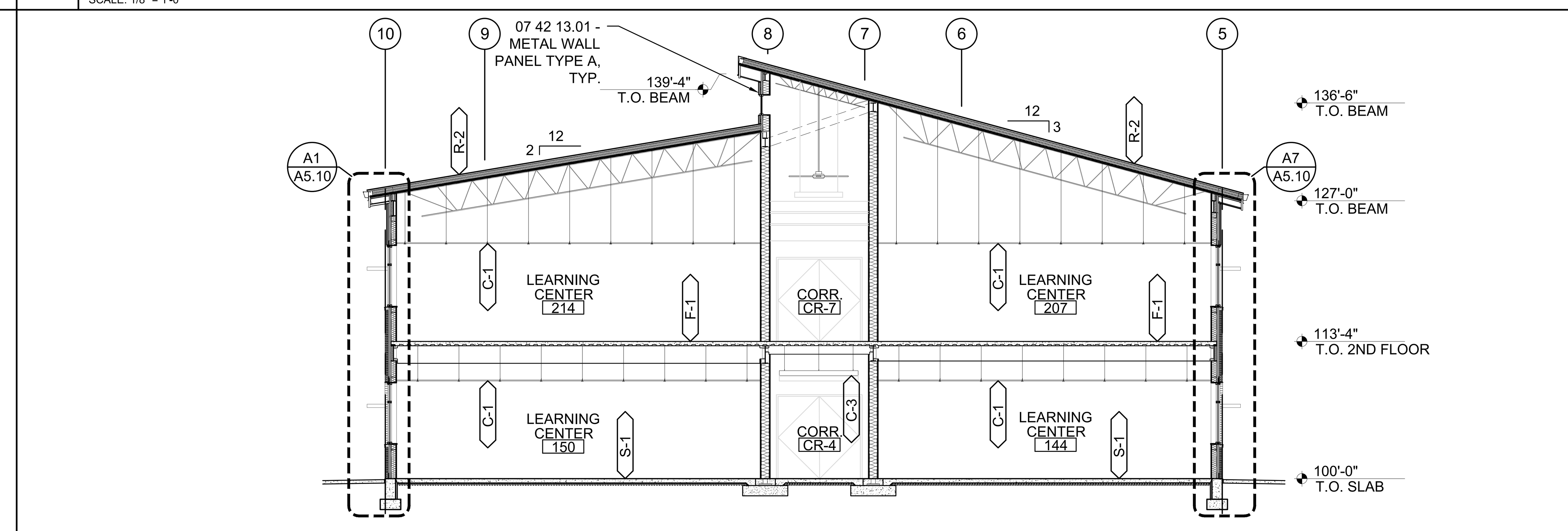
SCALE: 1/8" = 1'-0"



C1 BUILDING SECTION

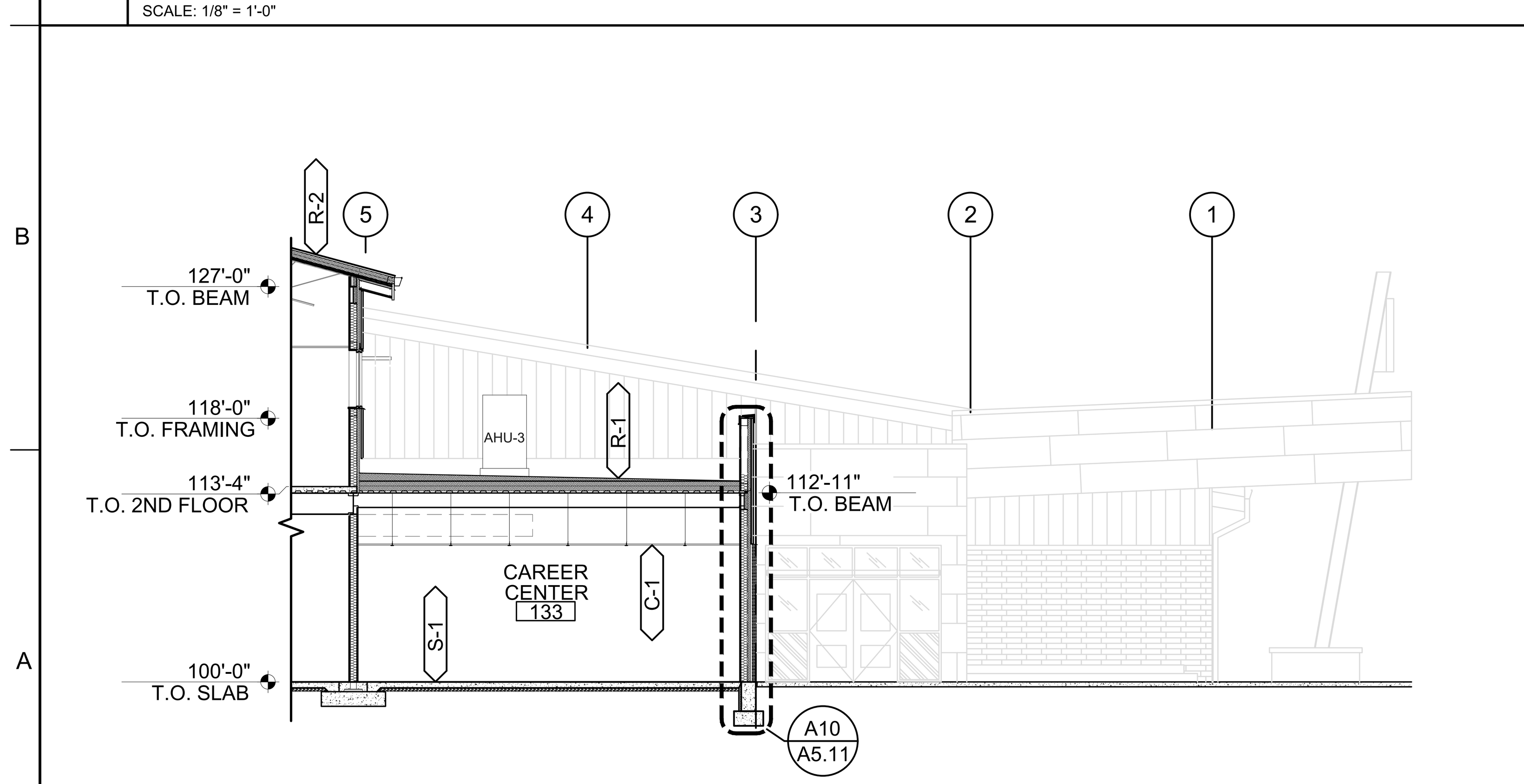
SCALE: 1/8" = 1'-0"

ENCLOSE/FILL VOID BETWEEN UPPER AND LOWER STAIR STRINGER CONTINUOUS ALONG LOWER STAIR STRINGER, WITH STEEL STUD FRAMING AND 5/8" TYPE 'X' PAINTED PT-1 GYPSUM BOARD TYP. (BEYOND)



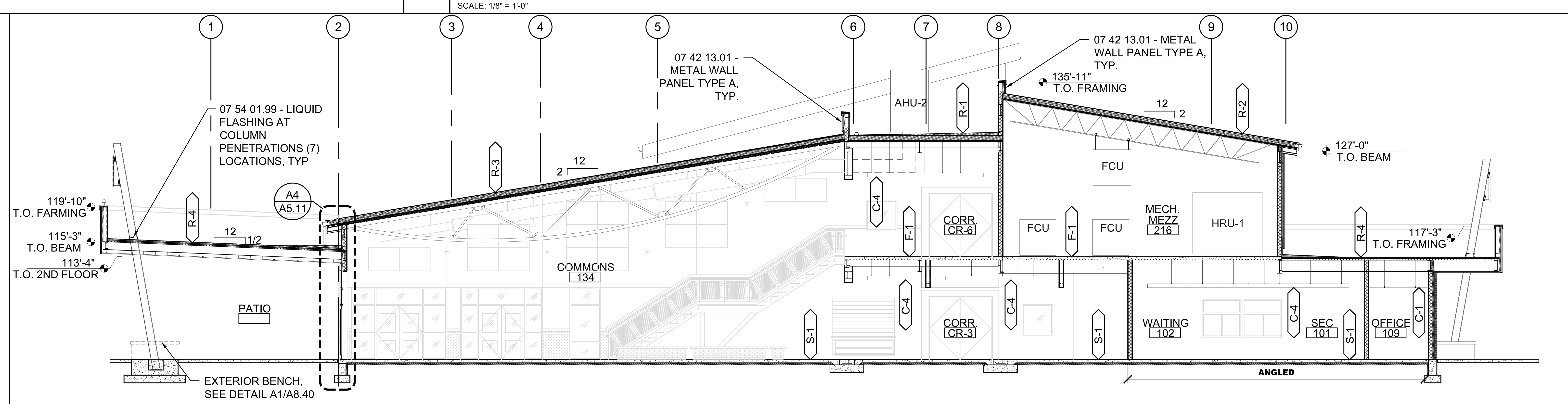
C7 BUILDING SECTION

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



A1 BUILDING SECTION

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



A5 BUILDING SECTION

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

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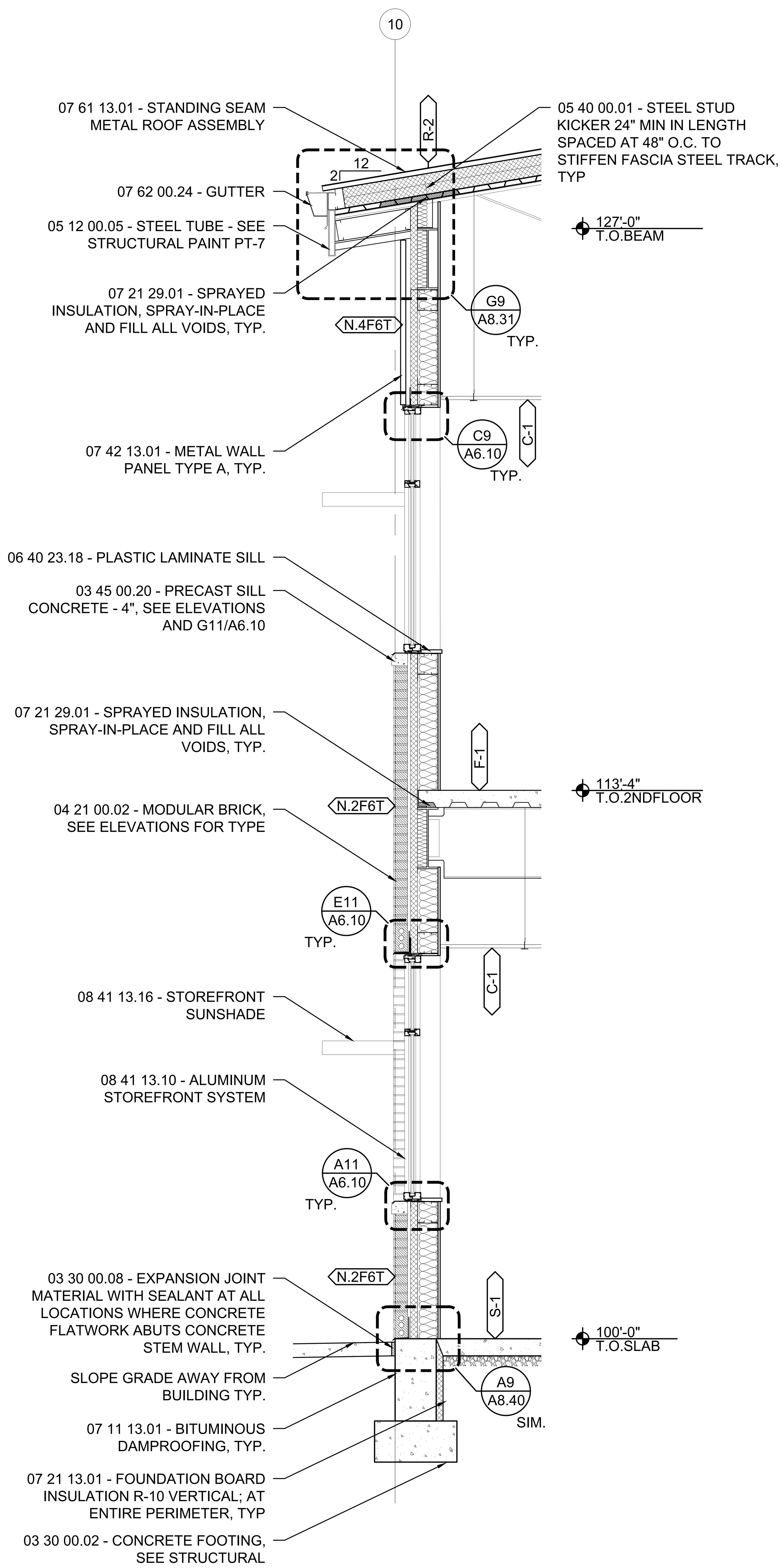
PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

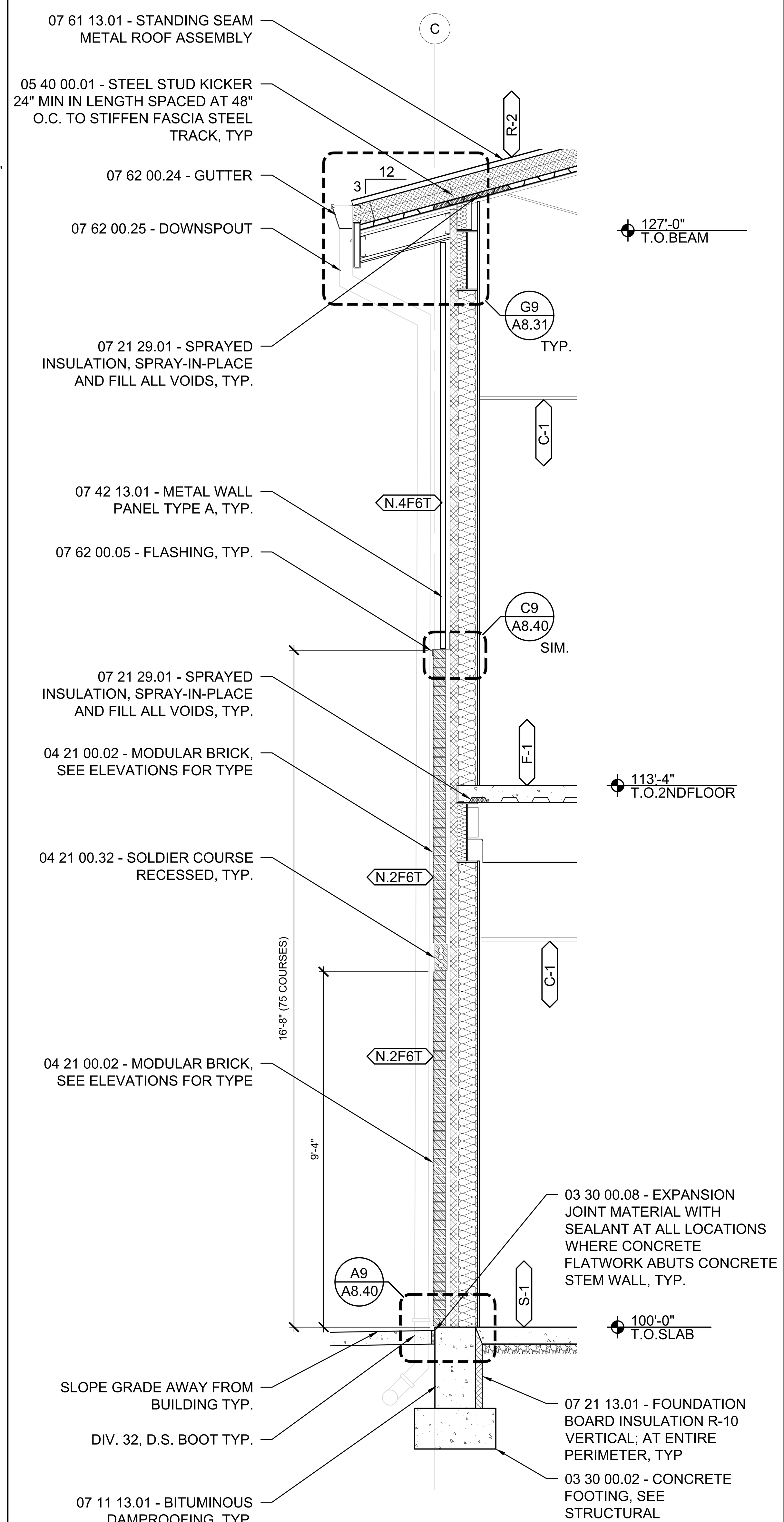
DATE: 12/18/2023

SHEET NAME: **BUILDING SECTIONS**

SHEET: **A5.01**



A1 SECTION
SCALE: 1/2" = 1'-0"



A4 SECTION
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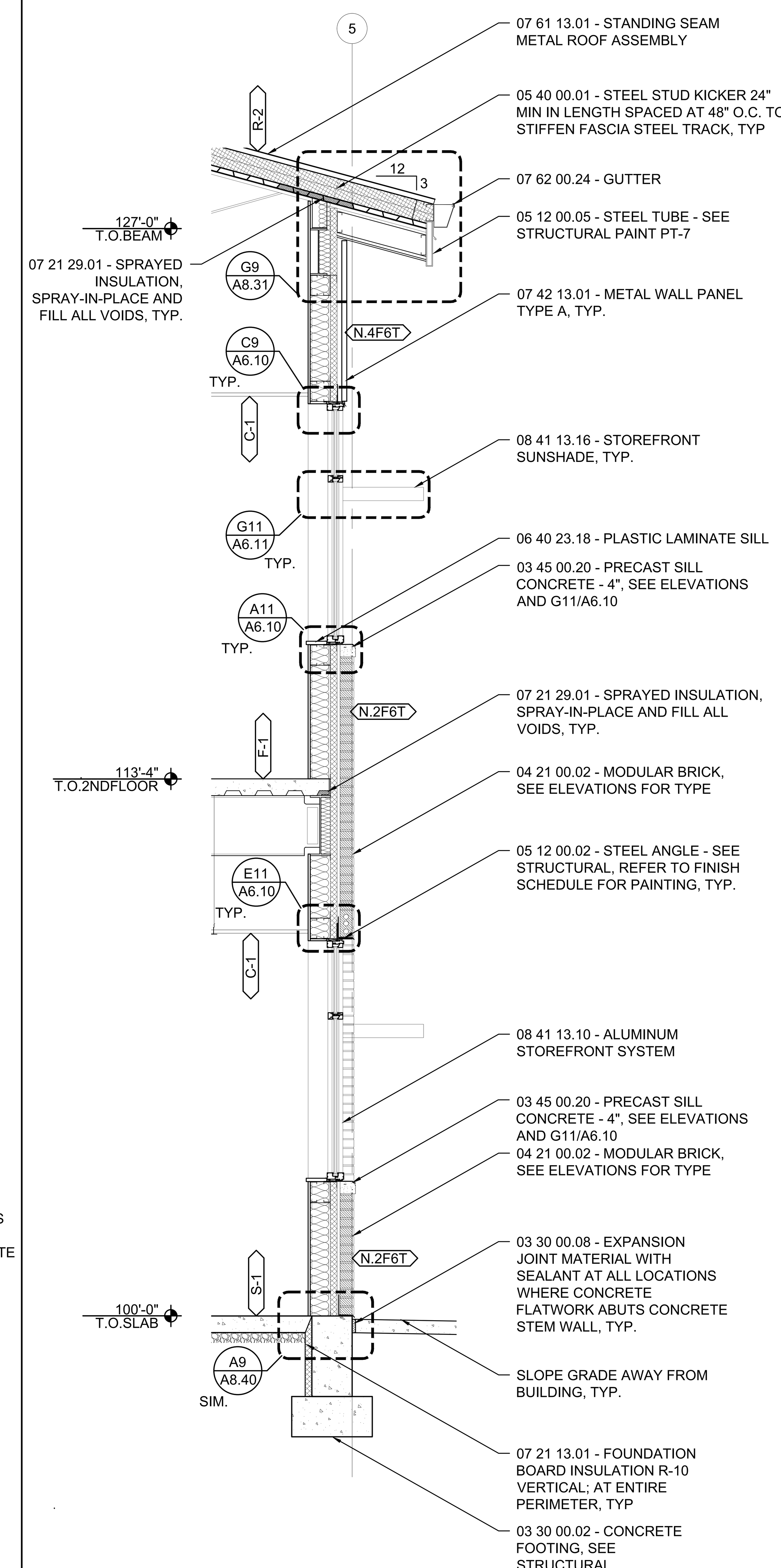

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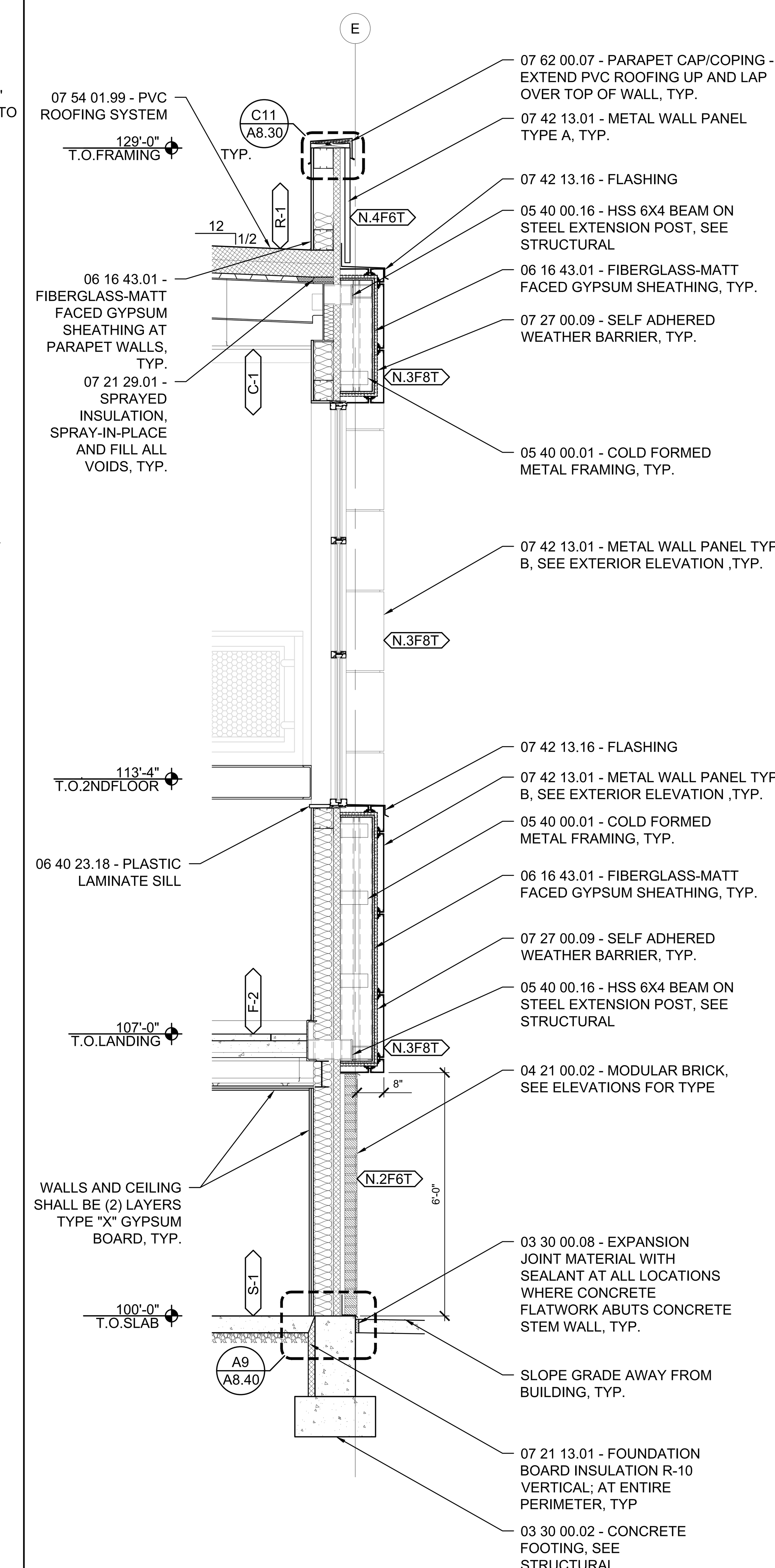

A10 SECTION
SCALE: 1/2" = 1'-0"

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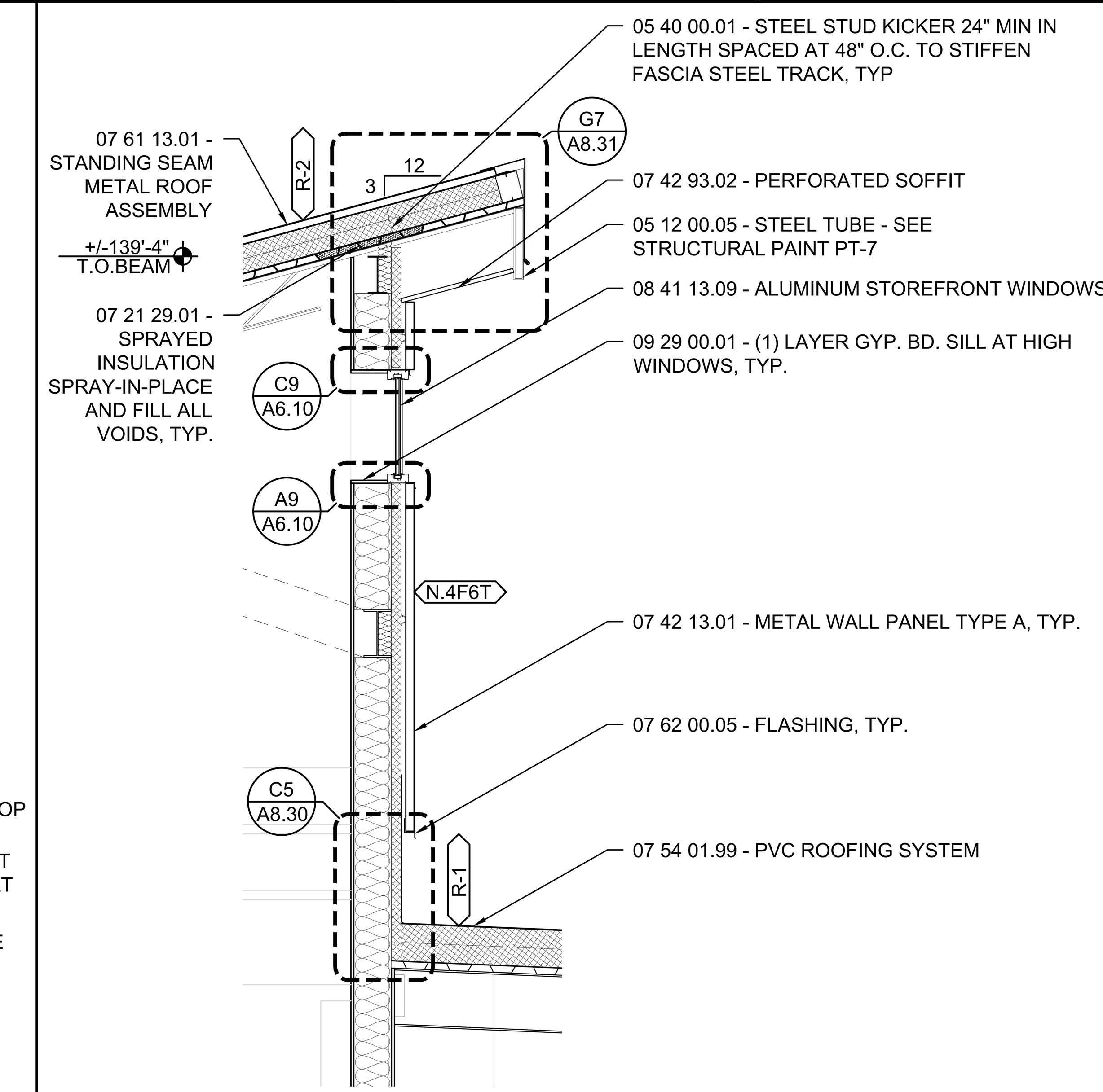
DATE
12/18/2023

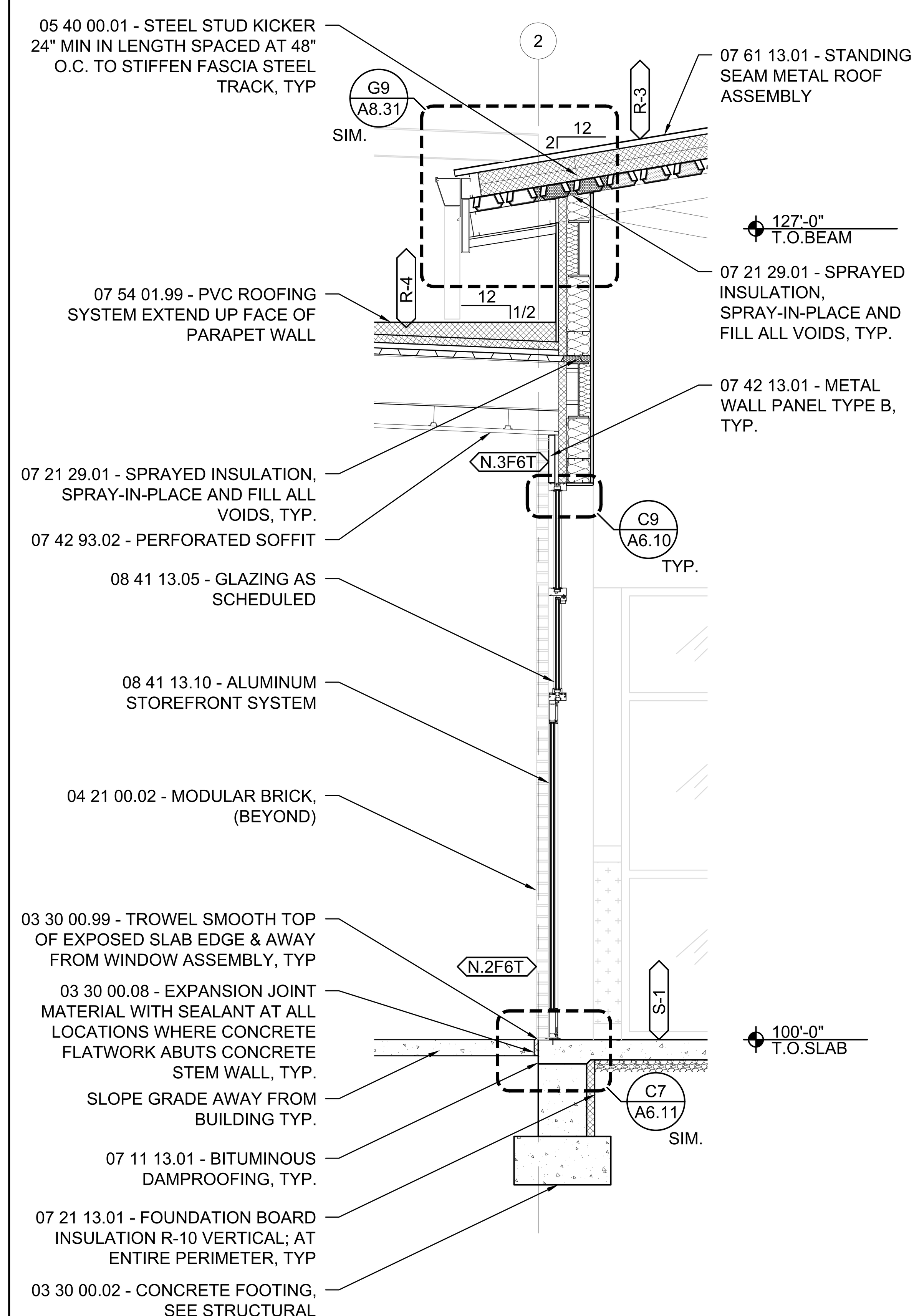
SHEET NAME
WALL SECTIONS

SHEET
A5.10



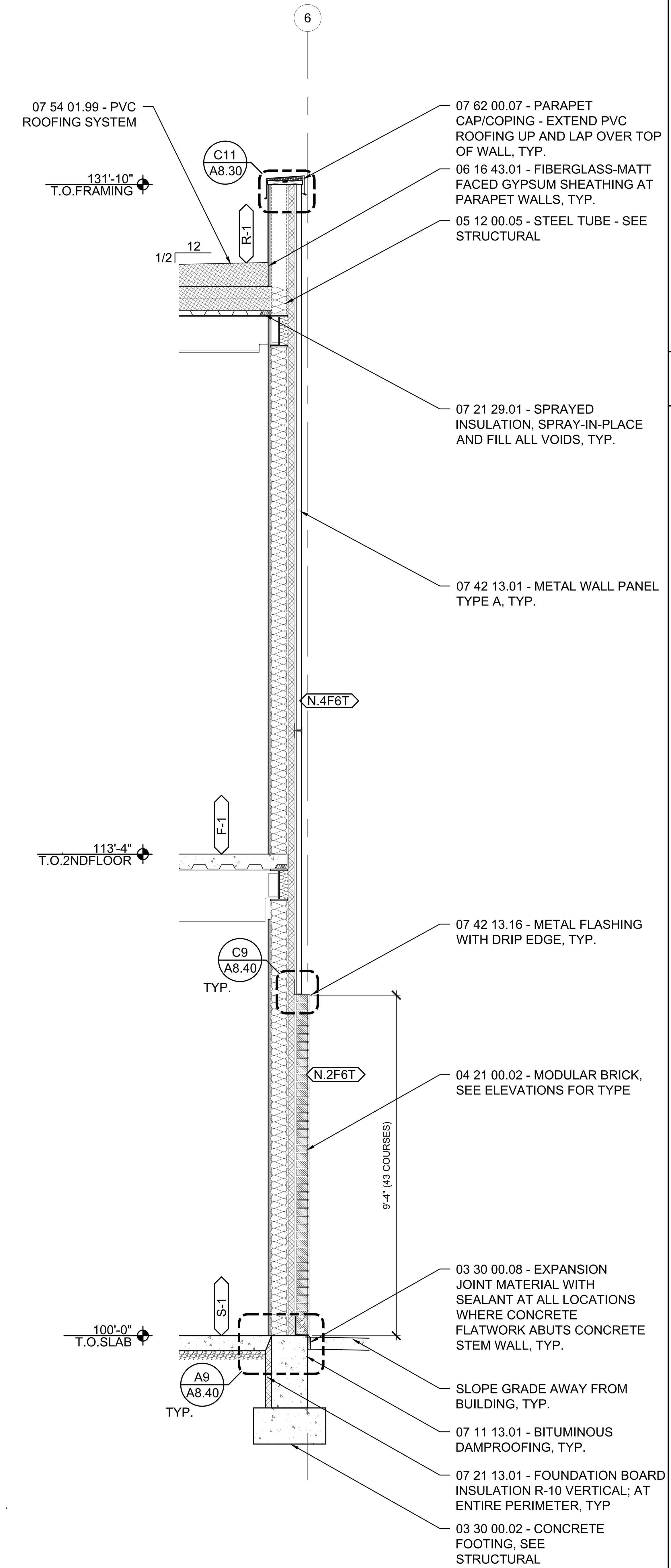
F10 SECTION

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



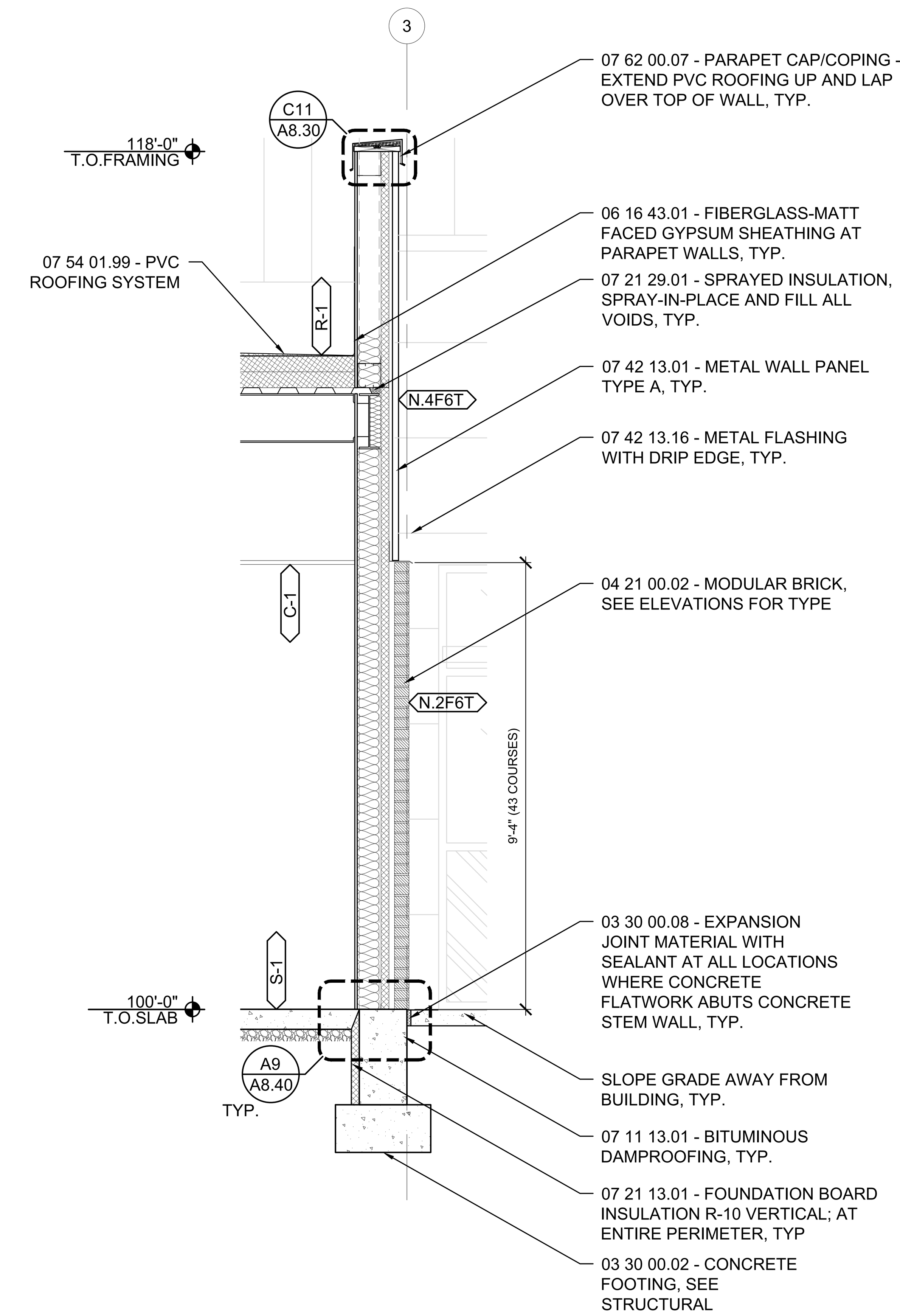
A4 SECTION

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



A7 SECTION

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



A10 SECTION

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

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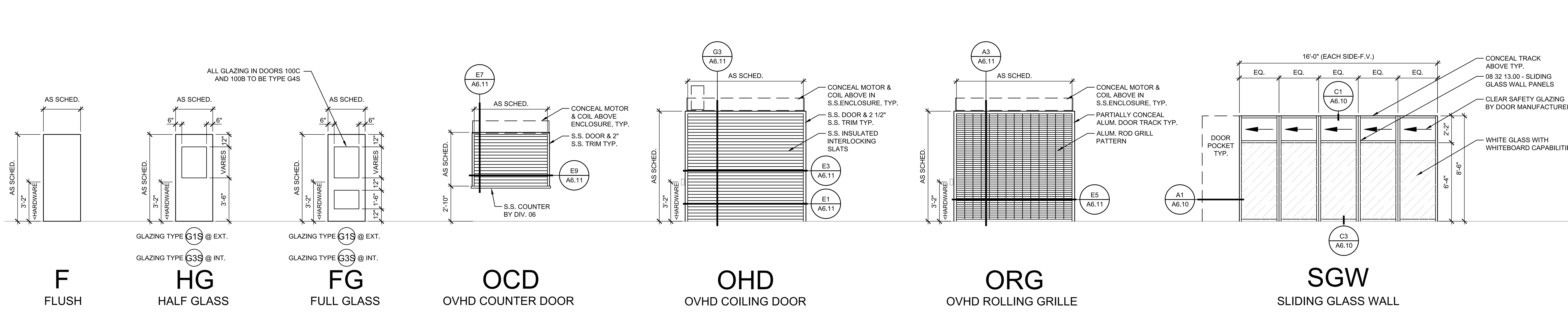
12/18/2023

SHEET NAME
WALL SECTIONS

SHEET
A5.11



G1 DOOR TYPES

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

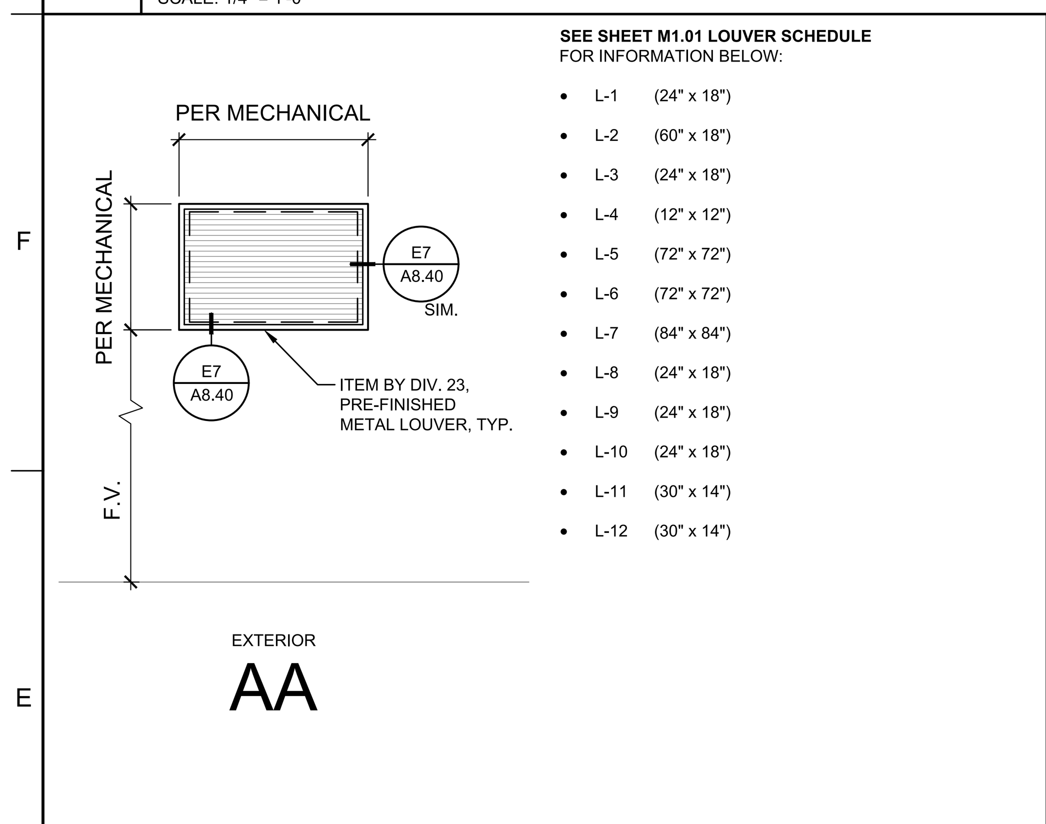
GENERAL NOTES

1. PAINT ALL LOUVERS WITH FACTORY FINISH TO MATCH ADJACENT MATERIAL.
2. ALL ALUMINUM STOREFRONT DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION.
3. SEE G9/A6.10 FOR ALL EXT. OPENING FLASHING REQUIREMENTS.
4. REFERENCE DETAIL G7/A6.10 FOR STOREFRONT AND CURTAIN WALL PROFILES.
5. INSTALL MANUAL AND POWER OPERATED WINDOW ROLLER SHADES AT EXTERIOR WINDOWS AND INTERIOR LIGHTS AS NOTED IN SPEC 12 24 13. SEE DETAIL G5/A6.10.
6. PROVIDE DOOR THRESHOLD AT ALL EXTERIOR DOORS SEE DETAILS A7 / C7 ON SHEET A6.11.

WINDOW GLAZING

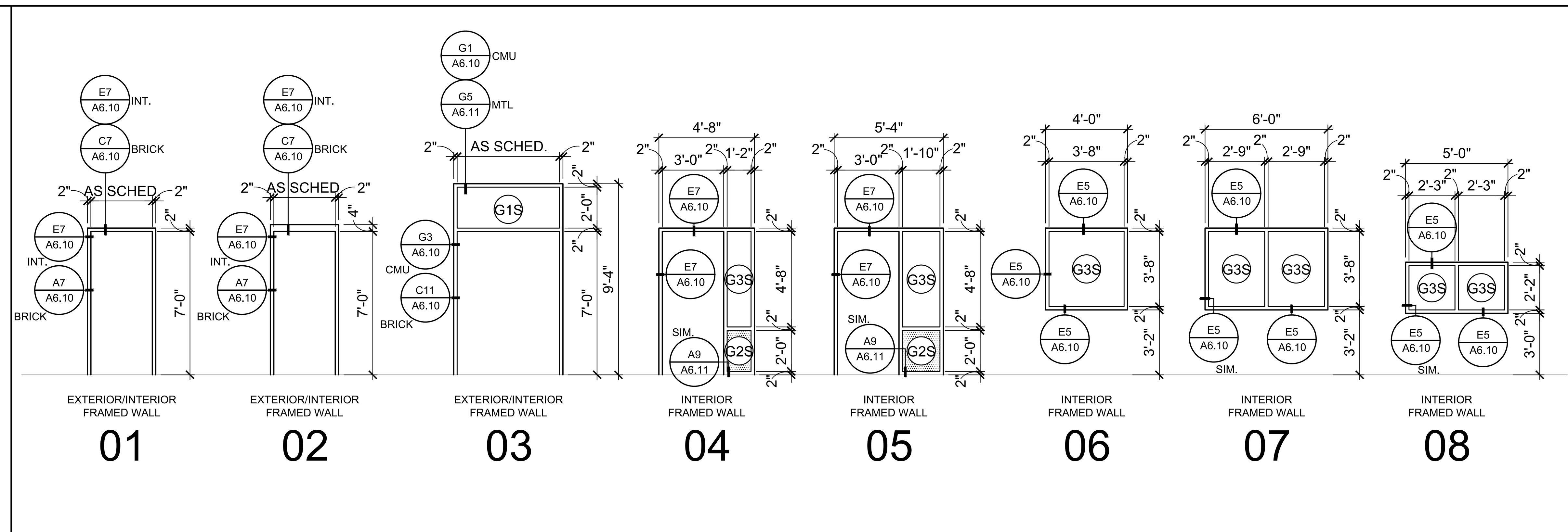
REFERENCE SPECIFICATION SECTION 08 80 00

G1S	1" INSULATED, SAFETY GLAZING, SOLAR GREY
G2S	SINGLE PANE OBSCURE GLAZING, SAFETY GLAZING, FROSTED
G3S	SINGLE PANE GLAZING - CLEAR SAFETY GLAZING, CLEAR
G4S	1" THICK GLASS - CLEAR PROJECTILE RESISTANT GLAZING, CLEAR
(hatch)	INSULATED METAL INSERT PANEL SPECIFICATION 07 42 13
(dashed)	STOREFRONT SUNSHADE, SEE PLANS AND ELEVATIONS SPECIFICATION 08 41 13



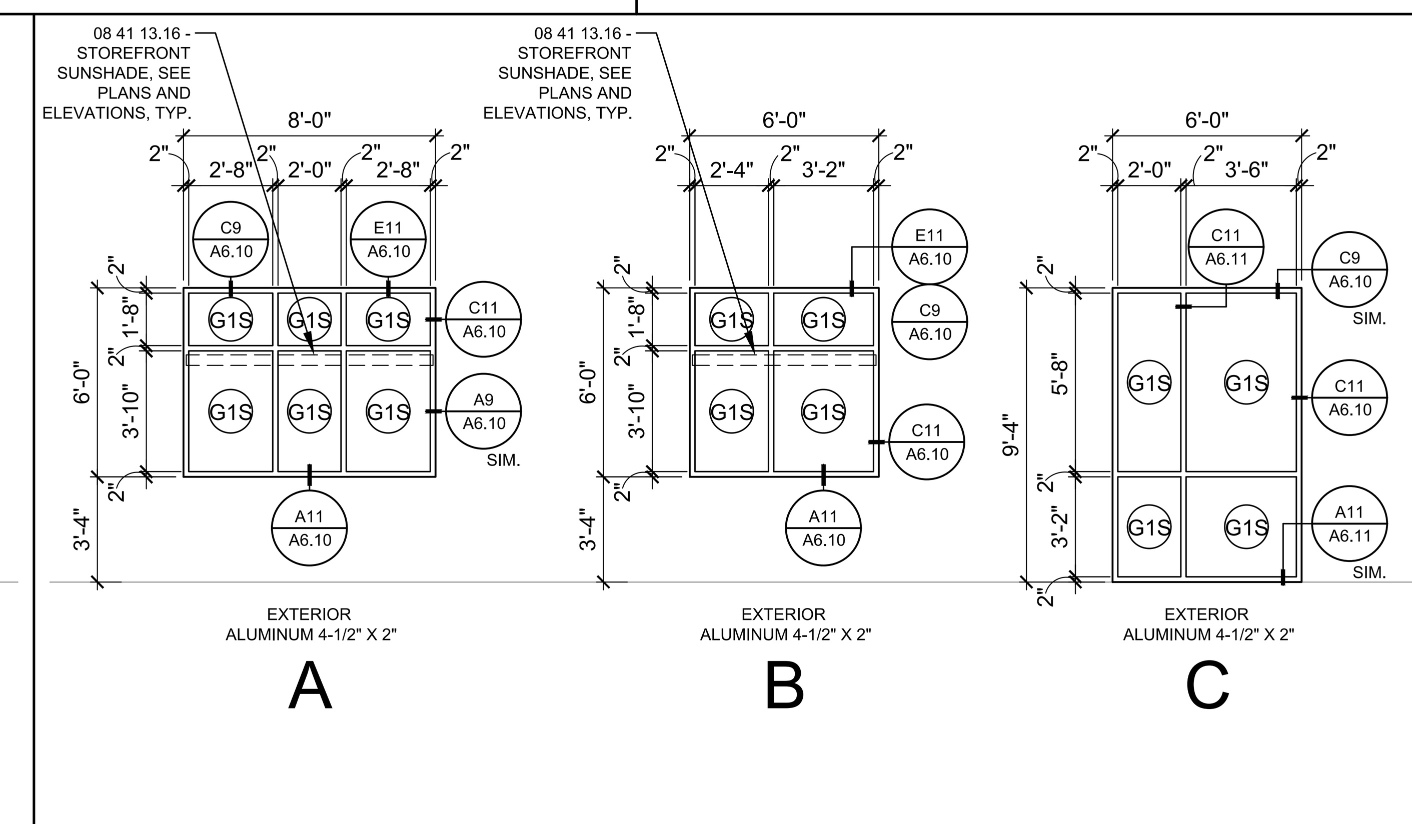
E1 LOUVER TYPES

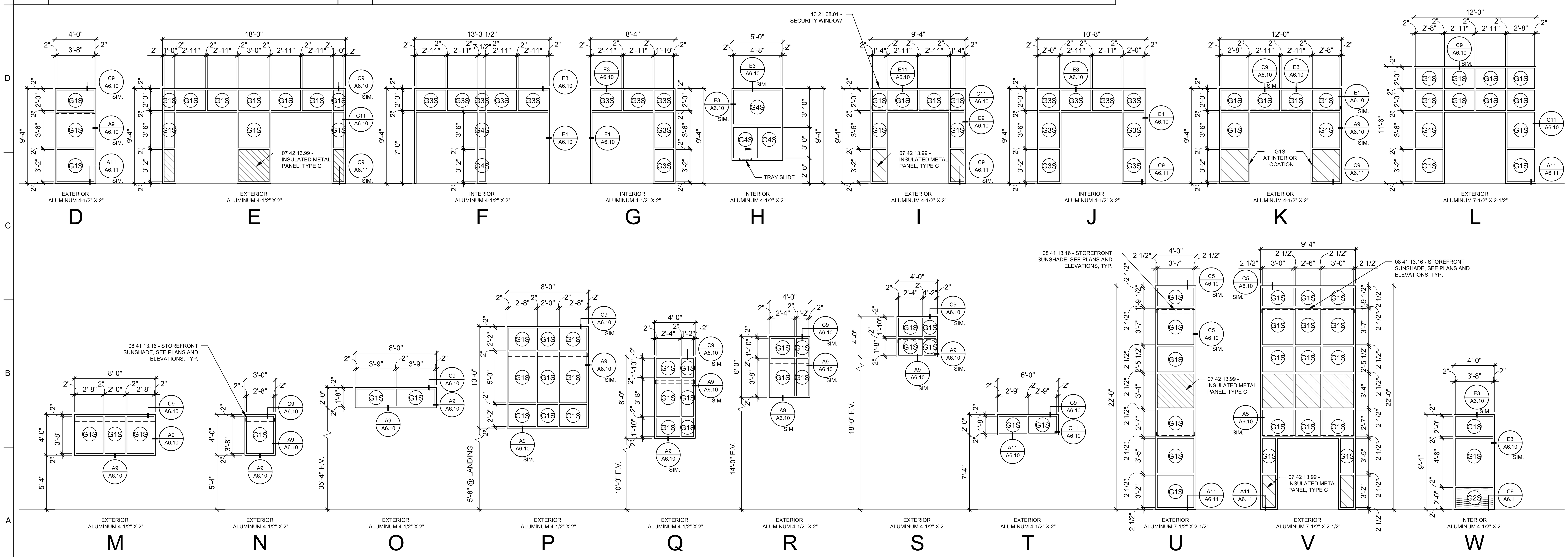
SCALE: 1/4" = 1'-0"



E3 HOLLOW METAL FRAME TYPES

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





A1 ALUMINUM WINDOW TYPES

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

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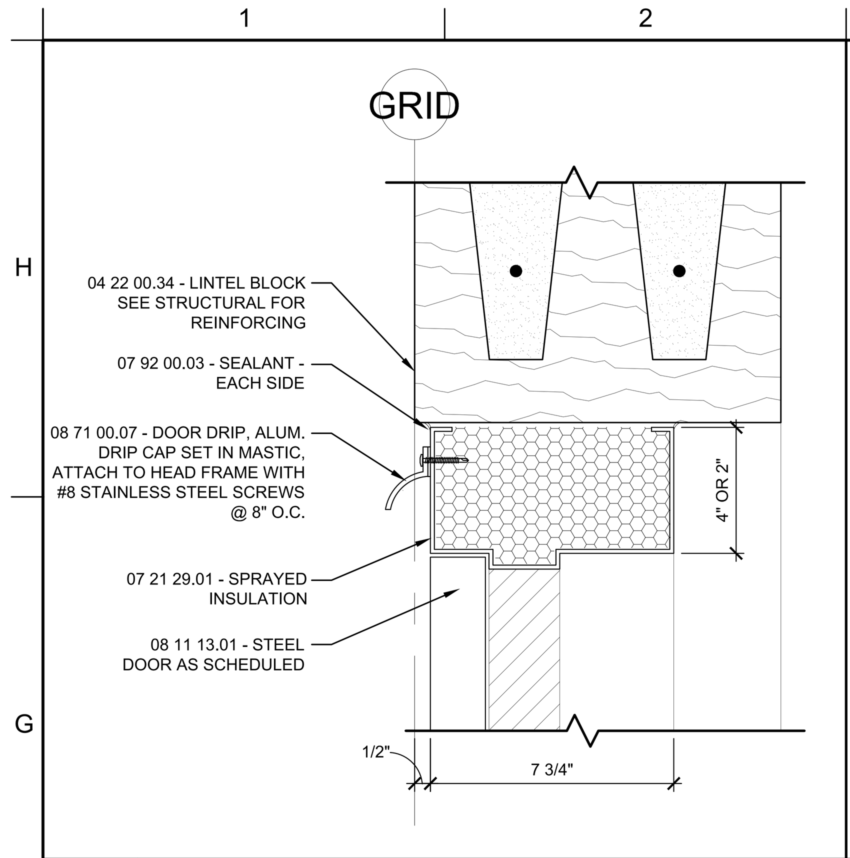
DATE
12/18/2023

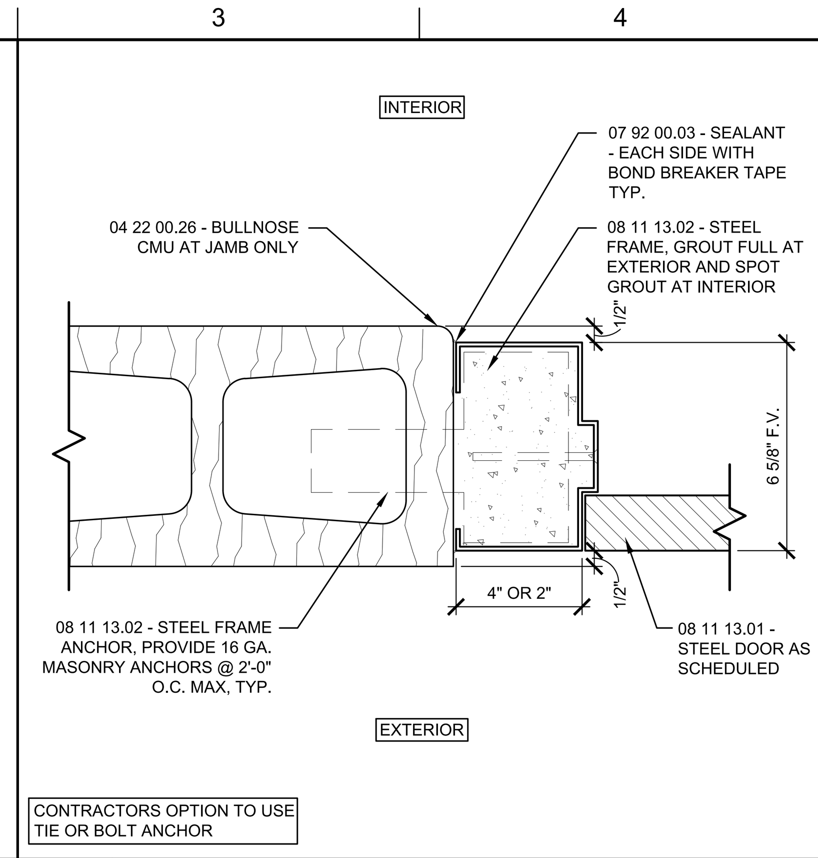
SHEET NAME
DOOR AND WINDOW TYPES

SHEET
A6.01



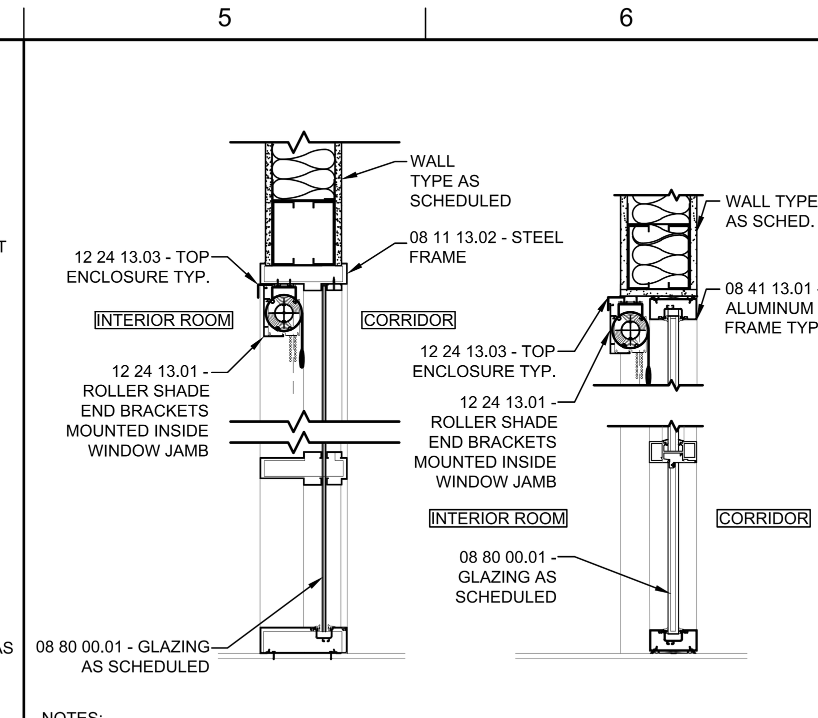
G1 HOLLOW METAL

SCALE: 3" = 1'-0" — EXT. HM DOOR HEAD - CMU



G3 HOLLOW METAL

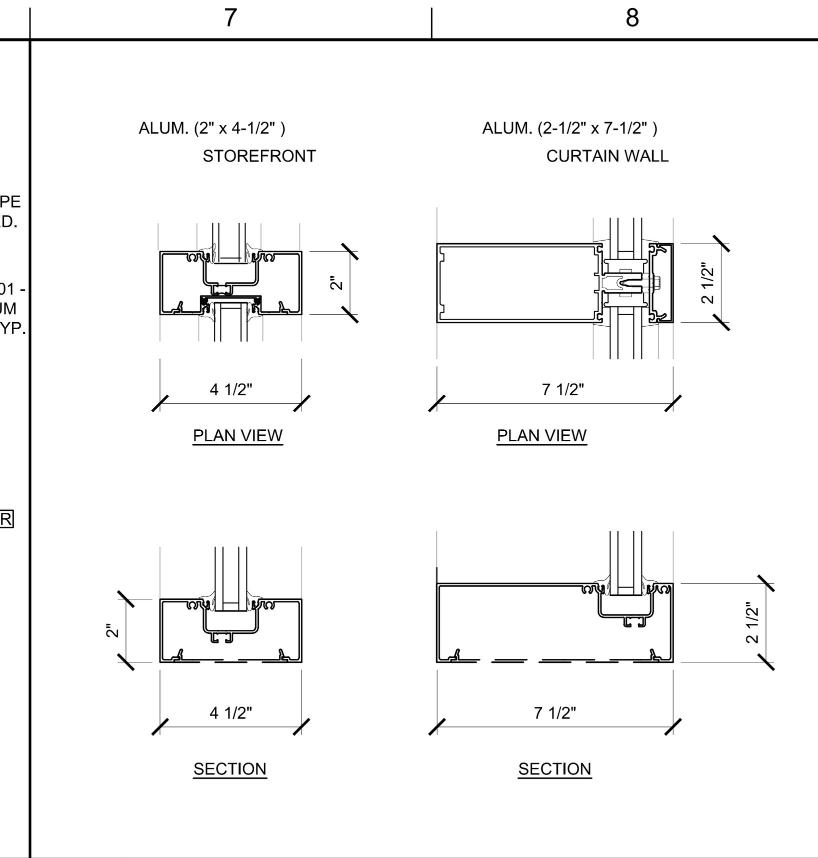
SCALE: 3" = 1'-0" — EXT. HM DOOR JAMB - CMU



NOTES:
1. CONCEAL ALL WIRING AND CONDUIT FOR POWER OPERATED SHADES WITHIN WALL CAVITY AND JAMB/HEAD OF WINDOW WALL FRAMING. NO EXPOSED CONDUIT OR WIRING IS ALLOWED.
2. PROVIDE ROLLER BLINDS AS NOTED OVER ENTIRE GLAZING AREA, RECESSED IN WINDOW CAVITY, SEE 12 24 13.

G5 INT. ROLLER SHADE LOCATION

SCALE: 1" = 1'-0" — INT. ROLLER SHADE



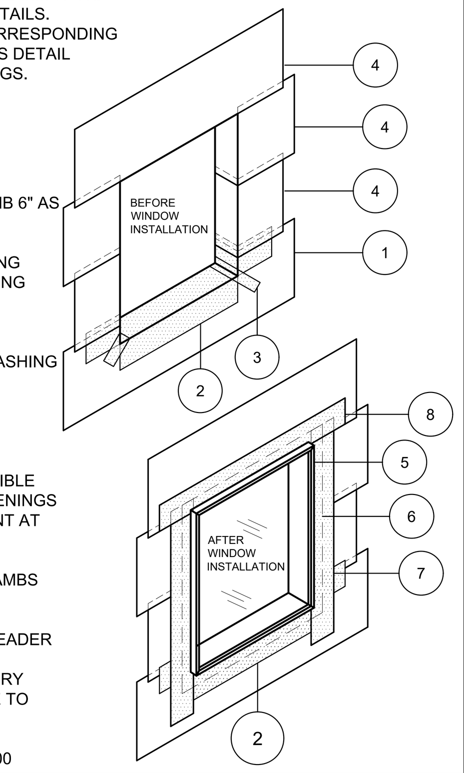
G7 ALUMINUM WINDOW PROFILES

SCALE: 3" = 1'-0" — STOREFRONT PROFILE

NOTES:
- WINDOW OPENING SHOWN. DOORS ARE SIM W/ NO SILL APPLICATION. SEE ASSOCIATED DETAILS.
- THE FOLLOWING NOTES OCCUR IN CORRESPONDING NUMBER INSTALLATION SEQUENCE. THIS DETAIL SHALL APPLY TO ALL EXTERIOR OPENINGS.

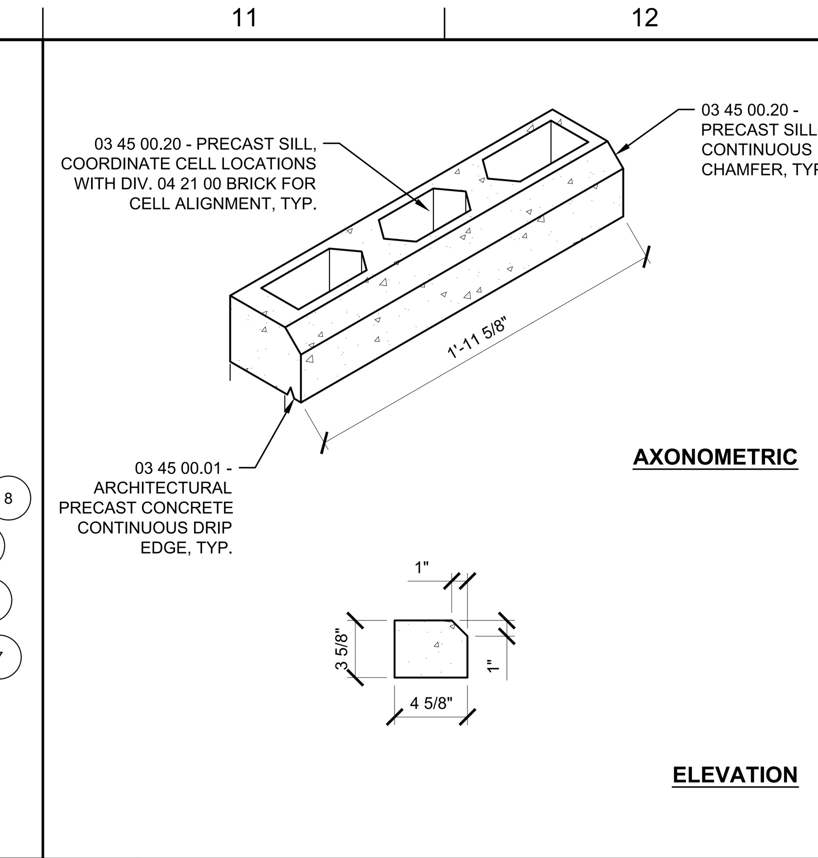
1. AIR INFILTRATION BARRIER BENEATH WINDOW AS SHOWN
2. WEATHER BARRIER FLASHING STRIP COVERING SILL AND EXTENDING UP JAMB 6" AS SHOWN.
3. 2" WIDE FLEXIBLE MEMBRANE FLASHING STRIP DIAGONALLY, COMPLETELY SEALING CORNER AS SHOWN
4. WEATHER BARRIER AROUND JAMBS OVERLAPPING FLEXIBLE MEMBRANE FLASHING 2" AS SHOWN
5. WINDOW OR DOOR
6. WINDOW FLANGE UNDER FLEXIBLE MEMBRANE FLASHING OR EXTEND FLEXIBLE MEMBRANE FLASHING AT INSIDE OF OPENINGS AS BASE FOR BACKER ROD AND SEALANT AT DOOR AND WINDOW FRAMES.
7. FLEXIBLE MEMBRANE FLASHING AT JAMBS AS SHOWN
8. FLEXIBLE MEMBRANE FLASHING AT HEADER OVERLAPPING JAMB FLASHING BY 2" AS SHOWN. PRODUCT EQUIVALENT TO HENRY BLUESKIN VP 160 (MUST FULLY ADHERE TO SHEATHING).

SEE SPECIFICATION 07 26 00 AND 07 27 00



G9 EXTERIOR OPENINGS FLASHING

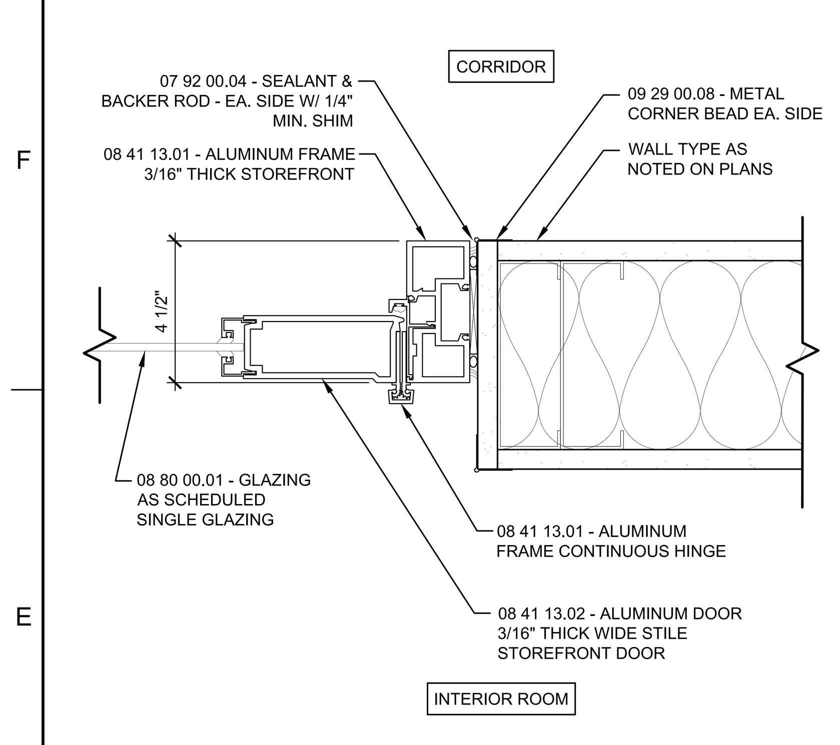
SCALE: N.T.S. — OPNG FLASHING



G11 PRECAST CONCRETE SILL

SCALE: 1 1/2" = 1'-0" — PRECAST TYPE

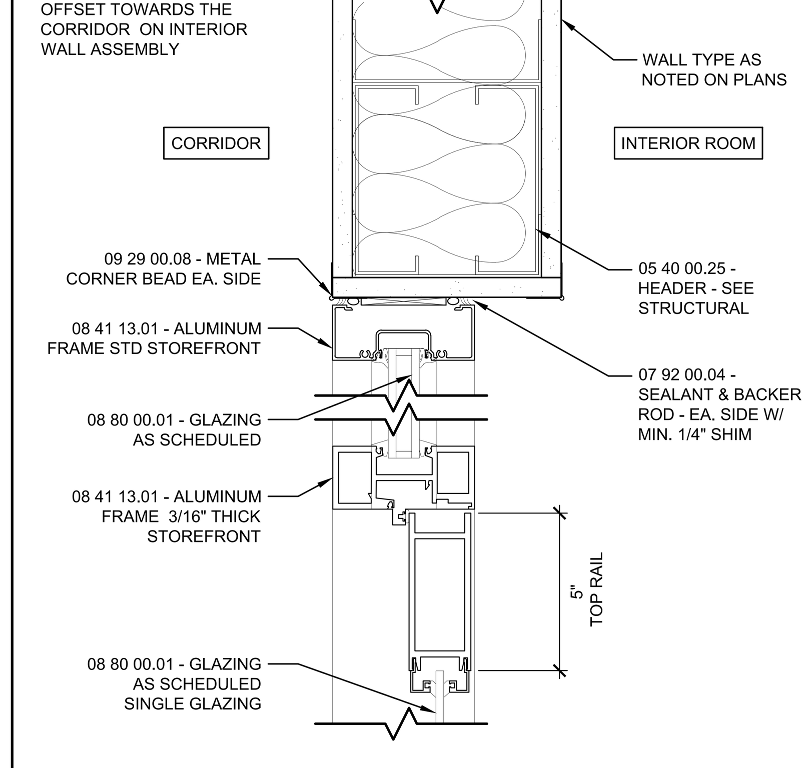
NOTE: FRAME SHALL BE OFFSET TOWARDS THE CORRIDOR ON INTERIOR WALL ASSEMBLIES



E1 ALUMINUM STOREFRONT

SCALE: 3" = 1'-0" — SF JAMB - INTERIOR

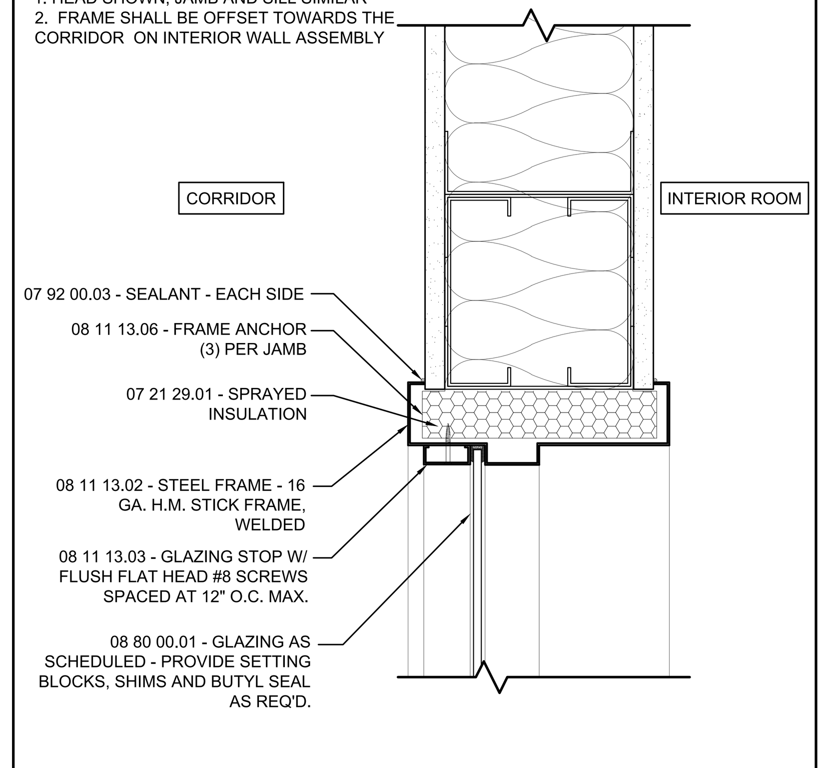
NOTE: FRAME SHALL BE OFFSET TOWARDS THE CORRIDOR ON INTERIOR WALL ASSEMBLY



E3 ALUMINUM STOREFRONT

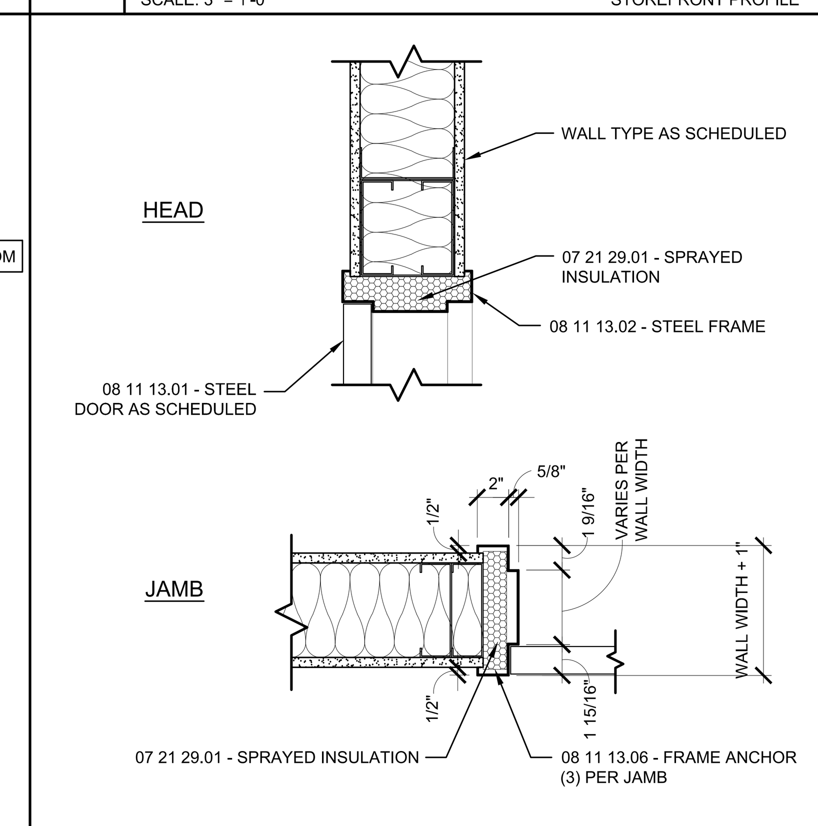
SCALE: 3" = 1'-0" — SF HEAD - INTERIOR

NOTE:
1. HEAD SHOWN, JAMB AND SILL SIMILAR
2. FRAME SHALL BE OFFSET TOWARDS THE CORRIDOR ON INTERIOR WALL ASSEMBLY



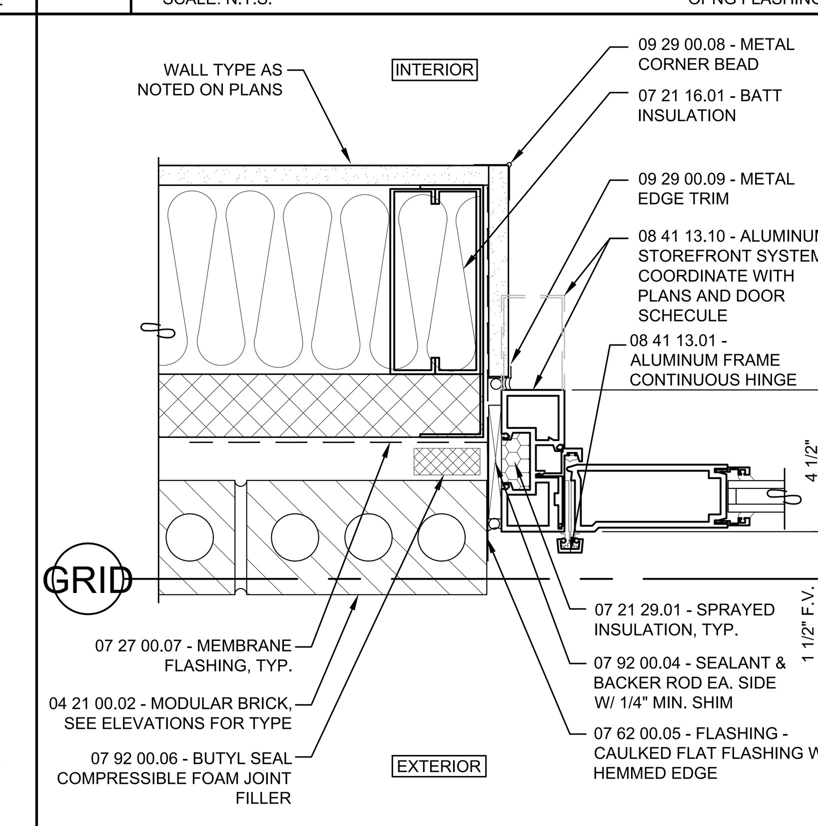
E5 HOLLOW METAL WINDOW

SCALE: 3" = 1'-0" — INT. WINDOW HEAD - FRAMED WALL



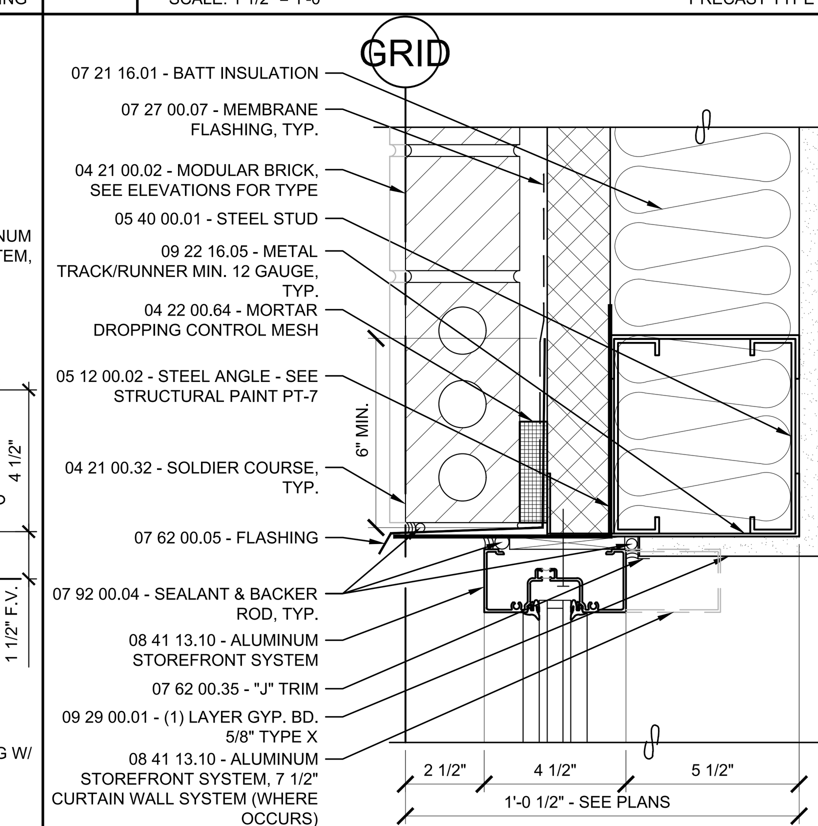
E7 HOLLOW METAL DOOR

SCALE: 1 1/2" = 1'-0" — INT. DOOR HEAD JAMB - FRAMED WALL



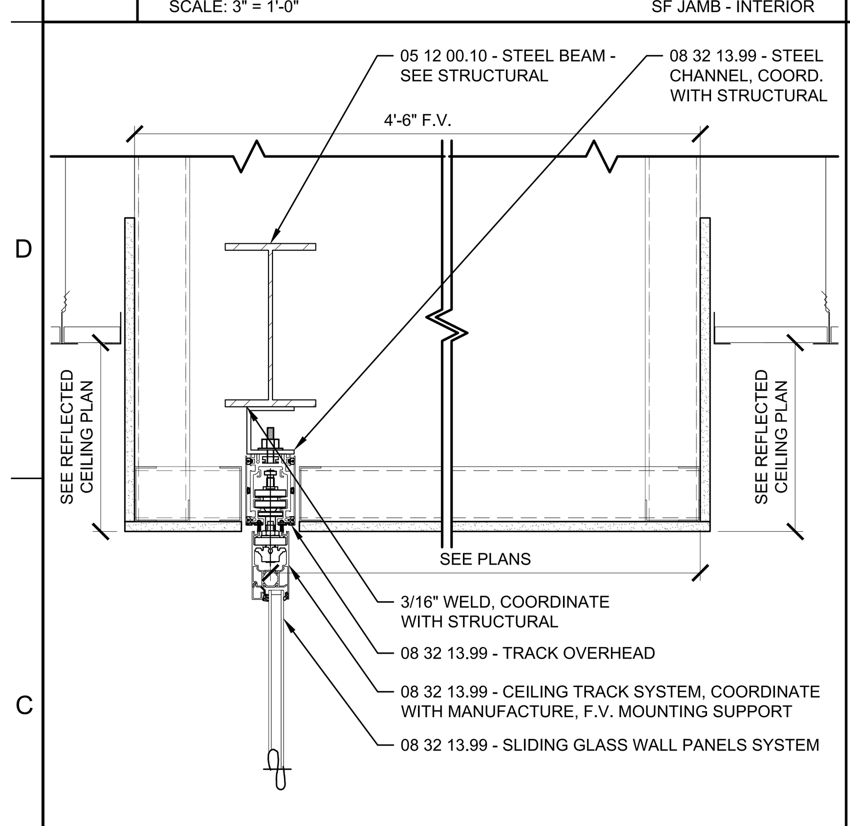
E9 DOOR JAMB AT BRICK

SCALE: 3" = 1'-0" — DOOR JAMB - BRICK



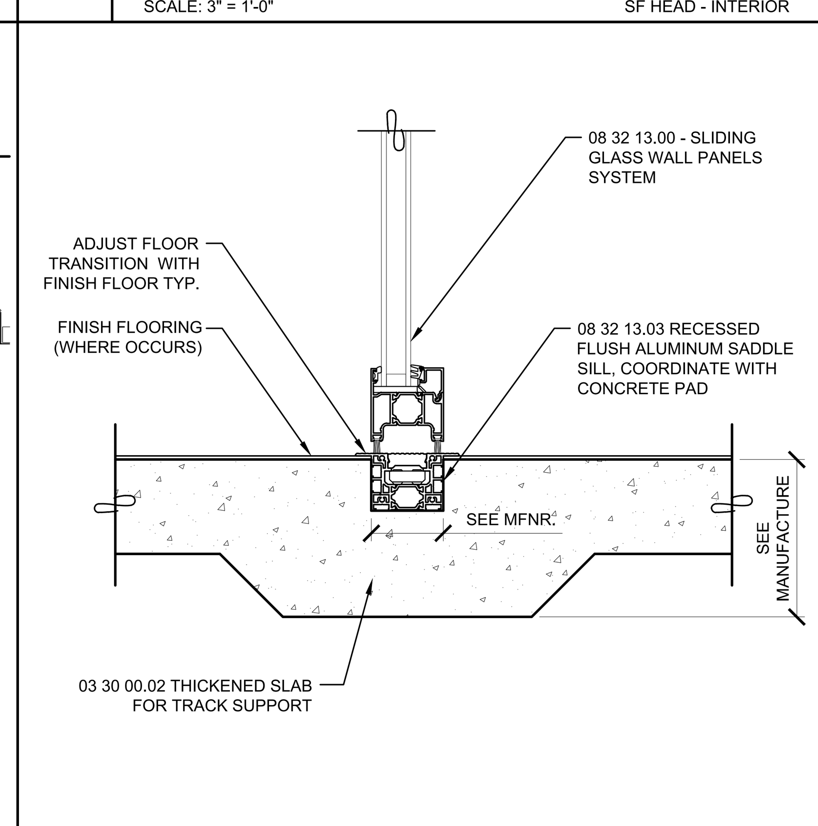
E11 BRICK WINDOW HEAD

SCALE: 3" = 1'-0" — BRICK AT SF HEAD TYP.



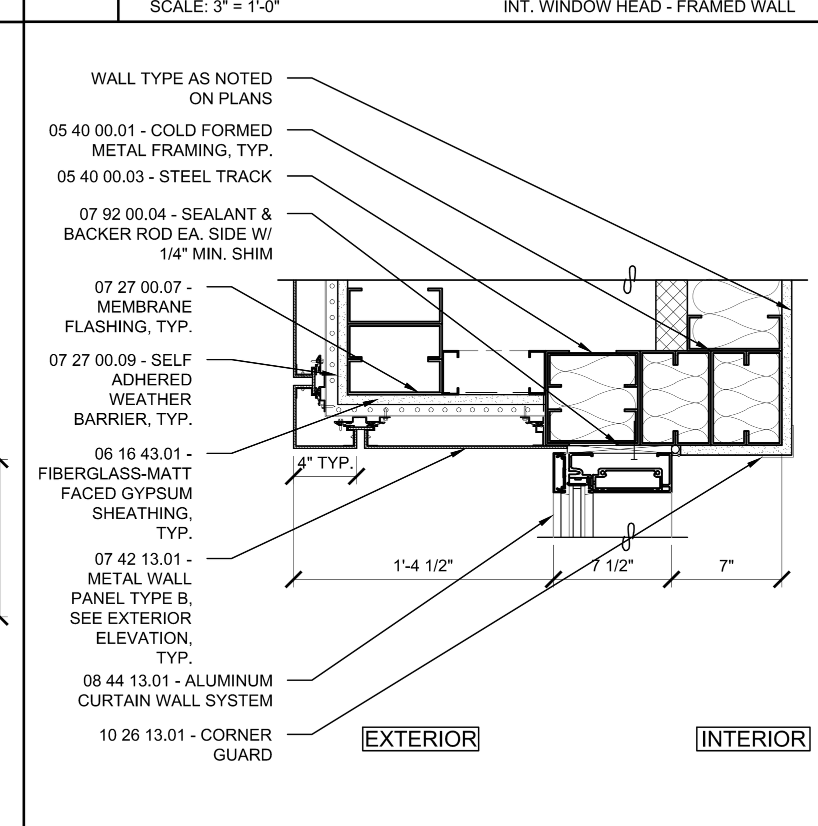
C1 CEILING TRACK

SCALE: 1 1/2" = 1'-0" — SGW PARTITION HEAD



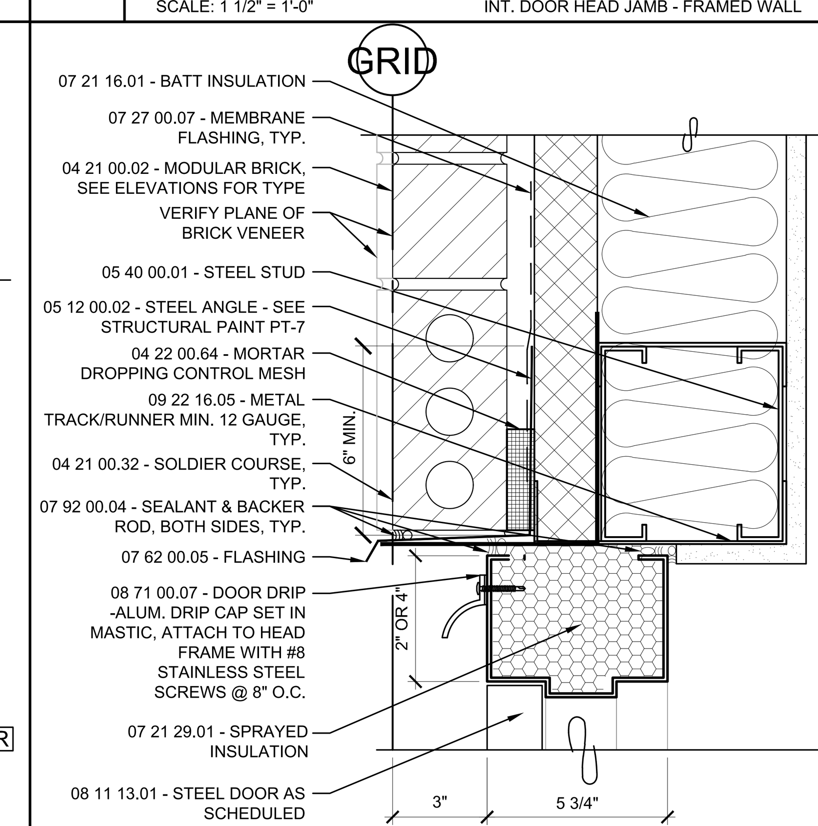
C3 FLOOR TRACK

SCALE: 3" = 1'-0" — SGW FLOOR TRACK SYSTEM



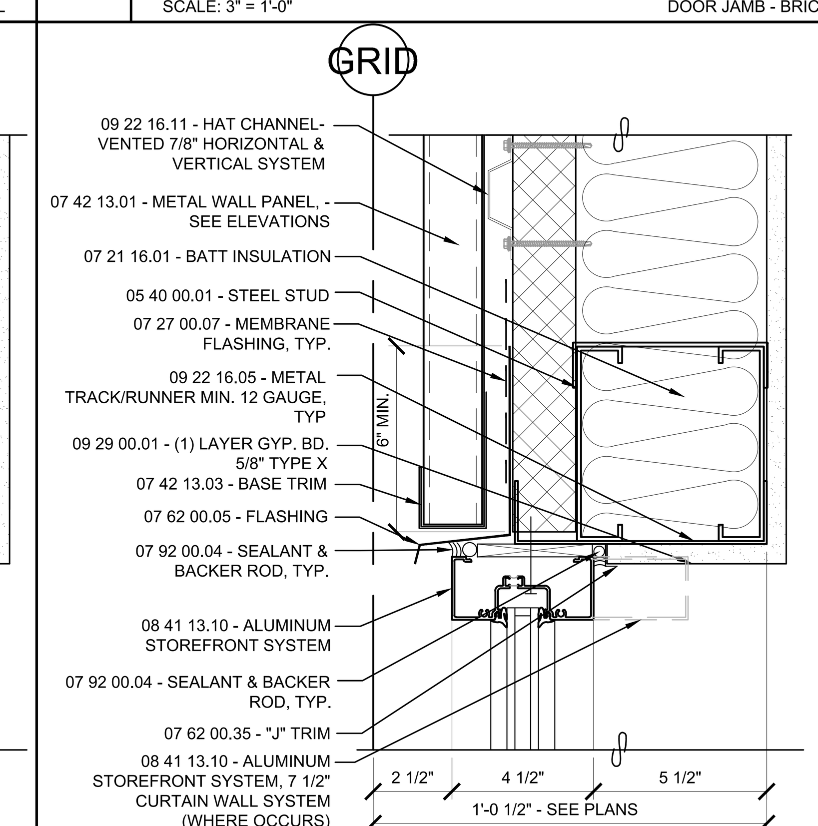
C5 METAL PANEL WINDOW HEAD

SCALE: 1 1/2" = 1'-0" — METAL WALL AT CURTAIN WALL HEAD



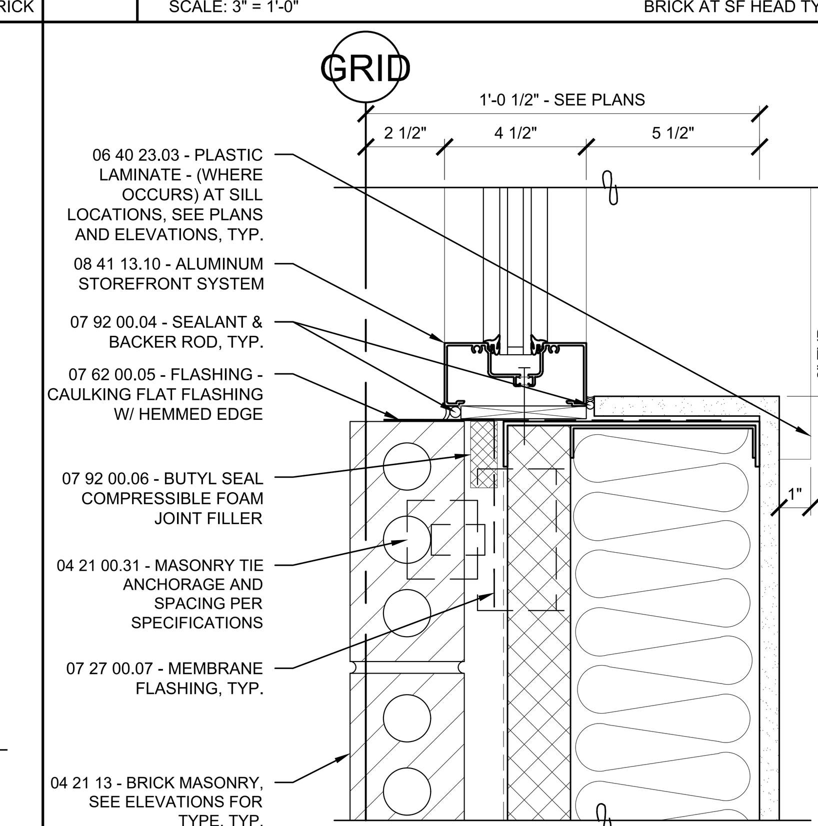
C7 HM BRICK WINDOW HEAD

SCALE: 3" = 1'-0" — BRICK AT HM HEAD TYP.



C9 METAL PANEL WINDOW HEAD

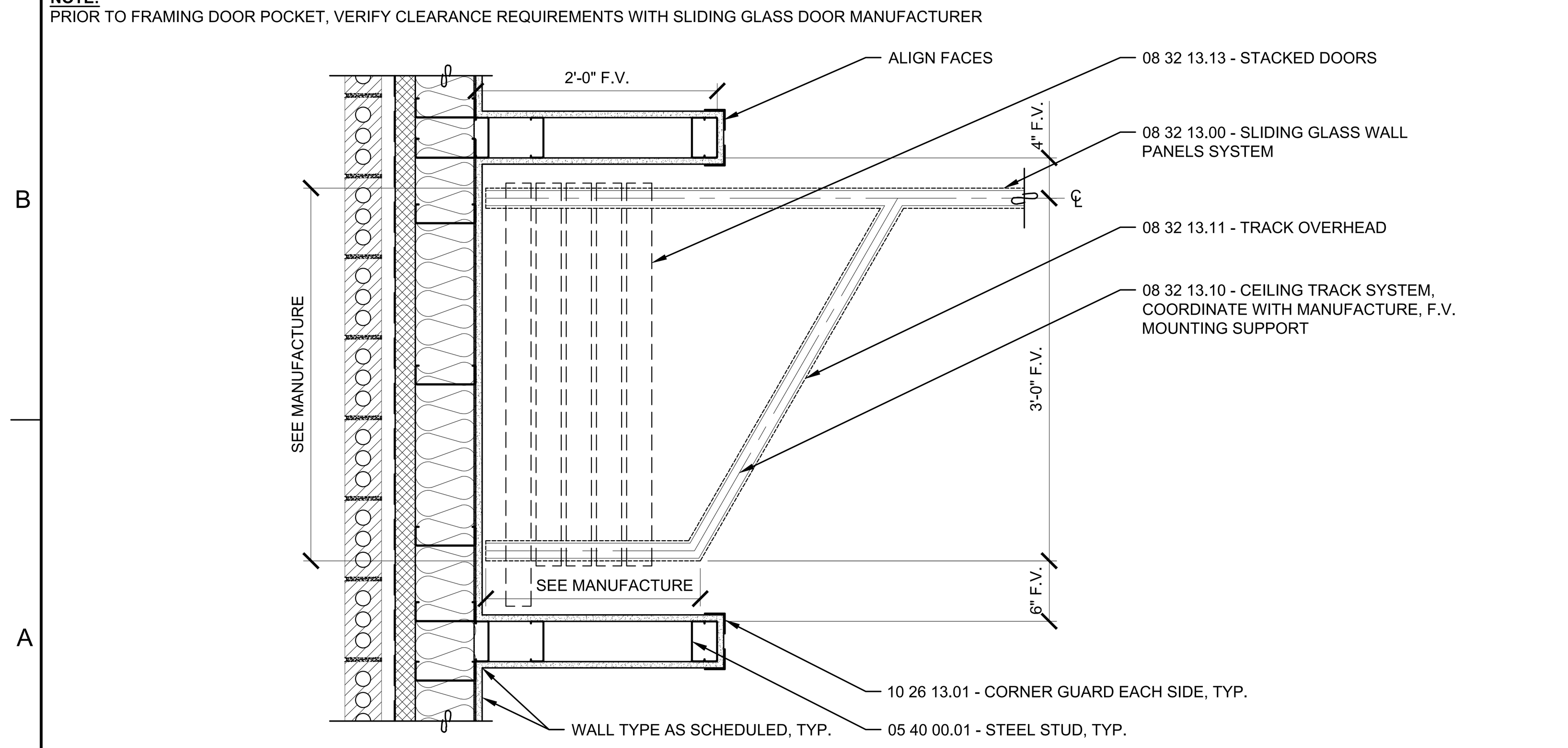
SCALE: 3" = 1'-0" — METAL COR. WALL HEAD



C11 BRICK AT JAMB

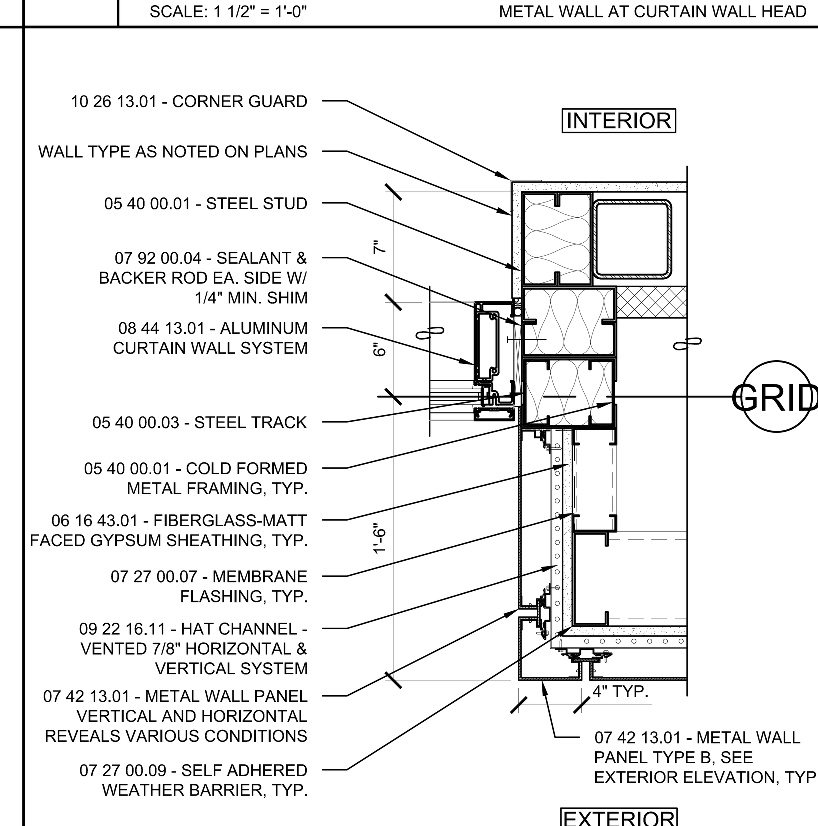
SCALE: 3" = 1'-0" — BRICK AT SF JAMB

NOTE:
PRIOR TO FRAMING DOOR POCKET, VERIFY CLEARANCE REQUIREMENTS WITH SLIDING GLASS DOOR MANUFACTURER



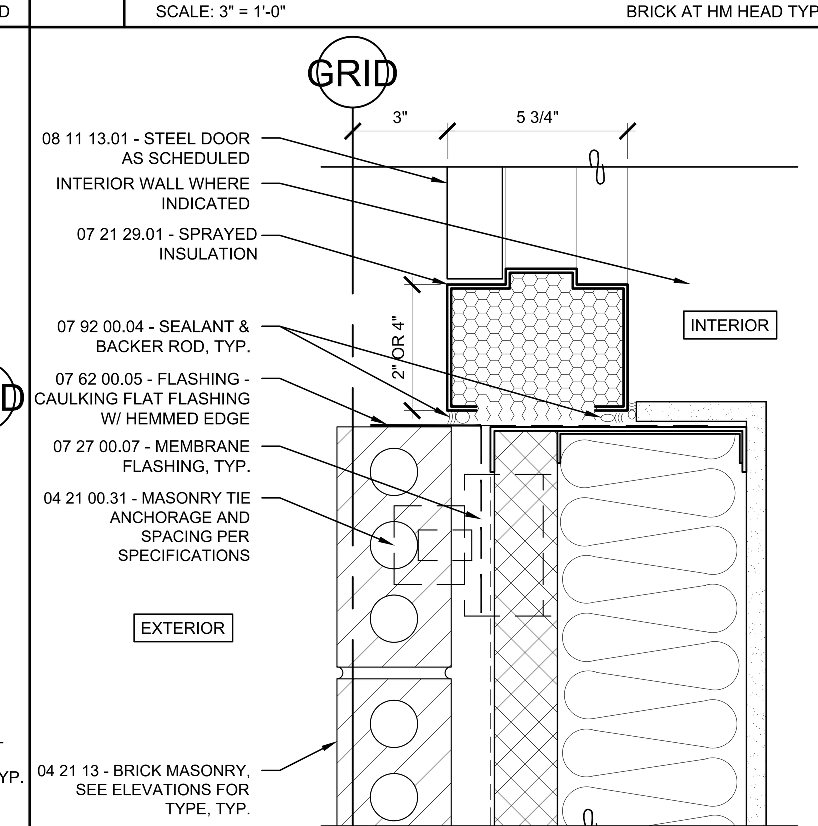
A1 SGW POCKET WALL

SCALE: 1" = 1'-0" — SGW JAMB



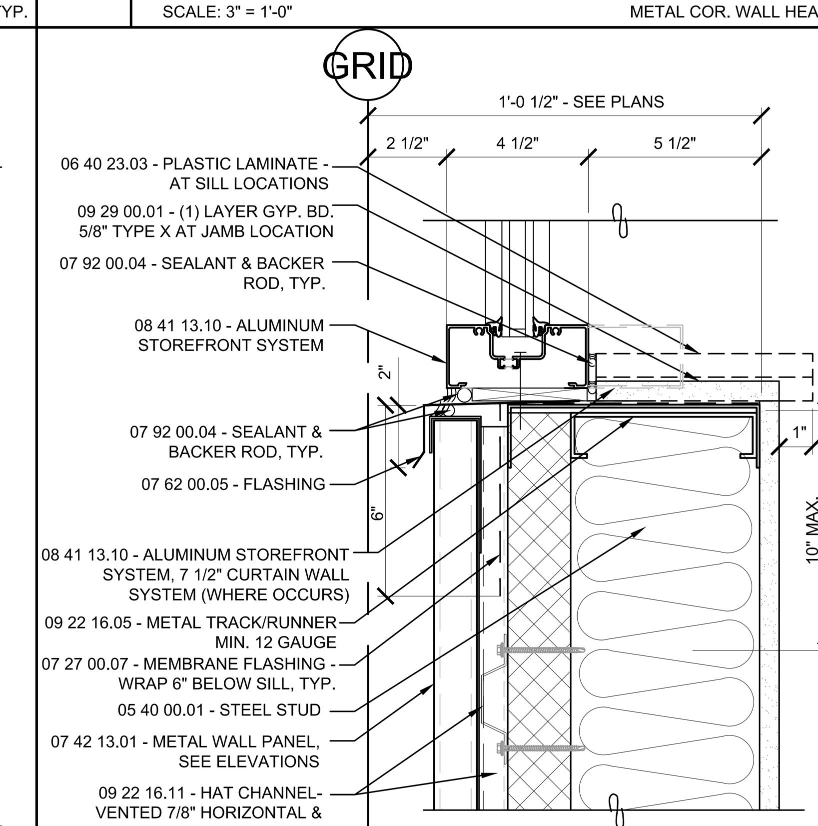
A5 METAL PANEL WINDOW JAMB

SCALE: 1 1/2" = 1'-0" — METAL WALL AT CURTAIN WALL JAMB



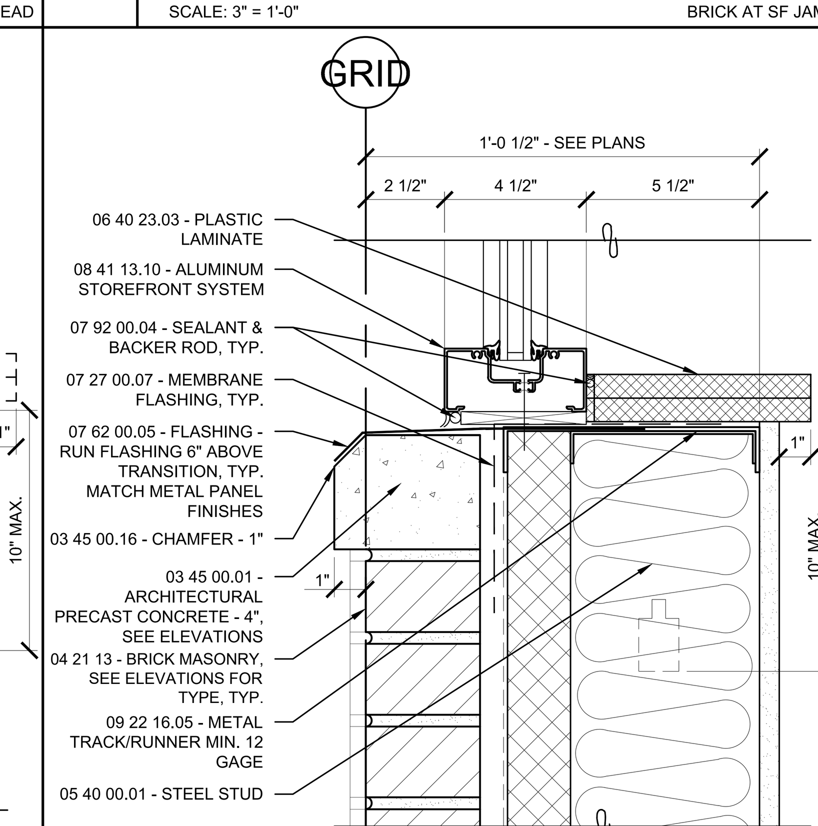
A7 HM AT BRICK JAMB

SCALE: 3" = 1'-0" — BRICK AT HW JAMB



A9 METAL PANEL WINDOW SILL & JAMB

SCALE: 1 1/2" = 1'-0" — METAL COR. WALL SILL



A11 BRICK AT SILL

SCALE: 3" = 1'-0" — BRICK AT SF SILL

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JOB NUMBER: 23053
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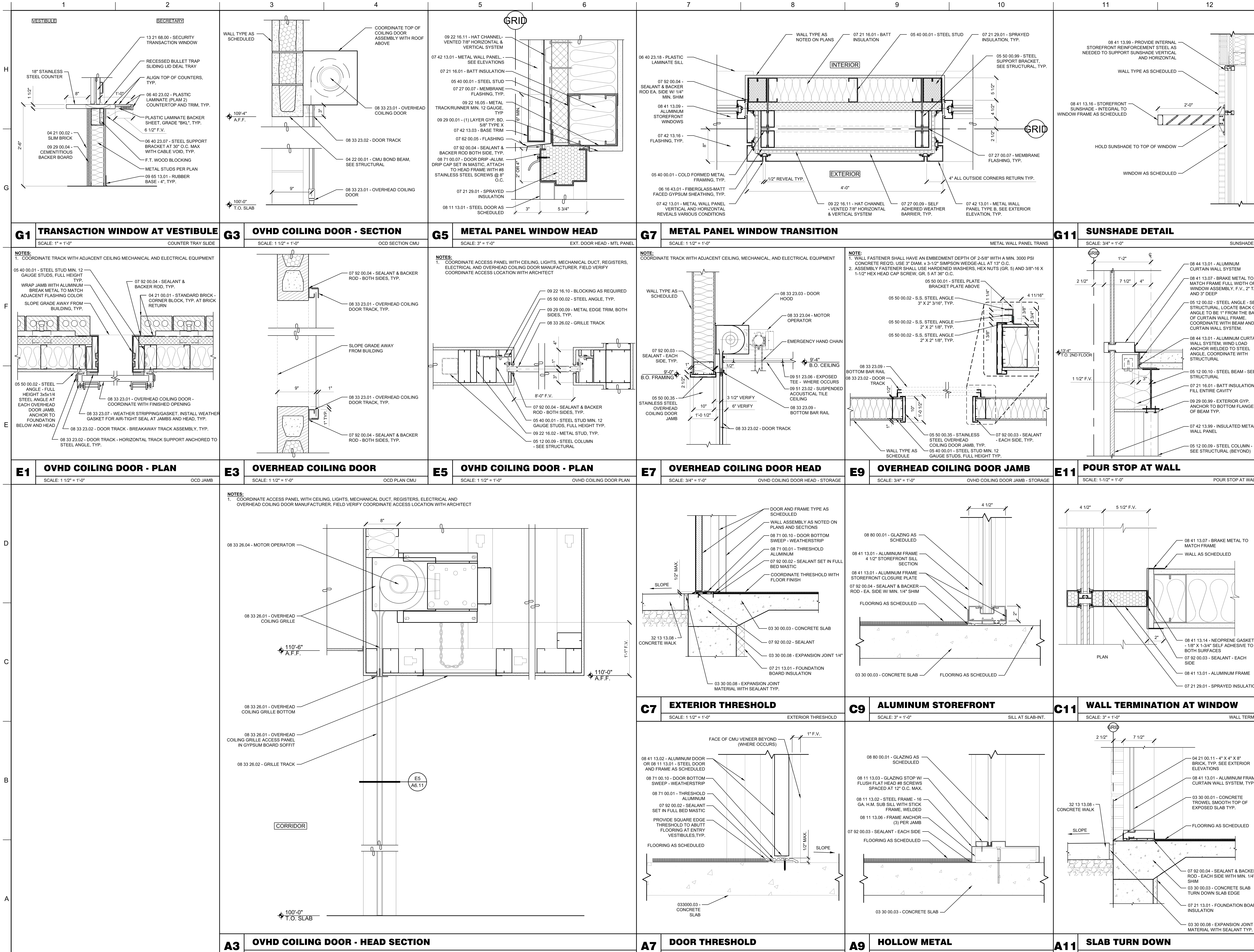
9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: DOOR AND WINDOW DETAILS

SHEET: A6.10



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REGISTERED ARCHITECT 9354 BRANDON D. WILM STATE OF WASHINGTON

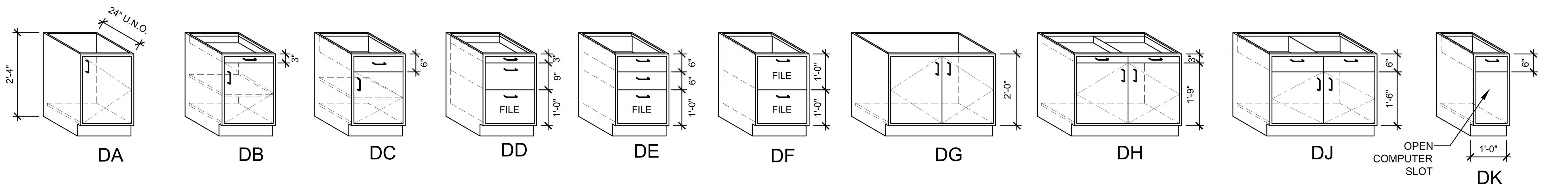
PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: DOOR AND WINDOW DETAILS

SHEET: A6.11

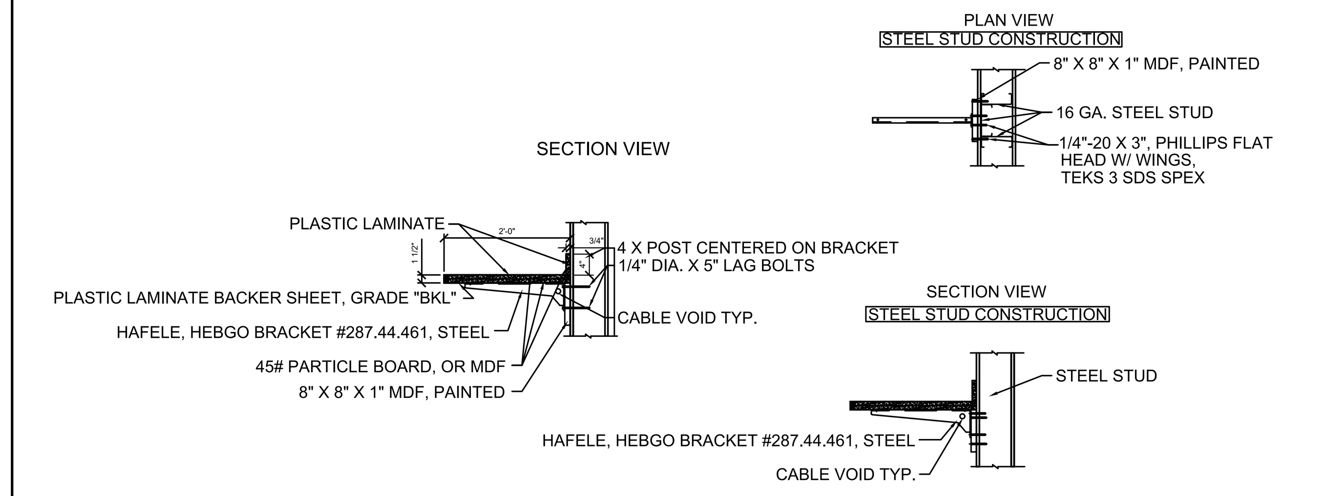


NOTE: FILE DRAWER REQUIREMENT
12 1/2" BOTTOM DRAWER FRONT HEIGHT
16 1/2" FOR STANDARD FILE CABINET WIDTH

D DESK CABINETS

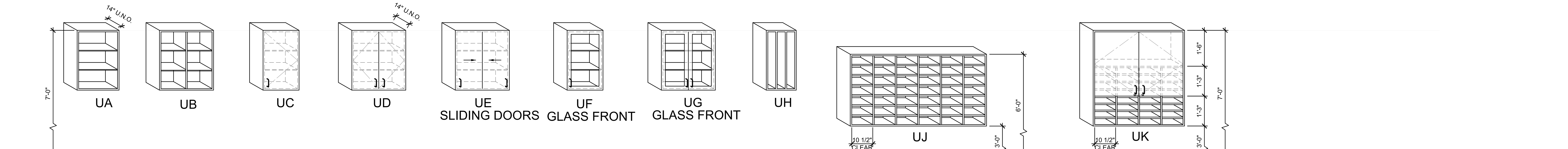
SCALE: N.T.S.

D = TYPICAL UNDER COUNTER CABINETS



D8 TYPICAL COUNTER SECTIONS

SCALE: N.T.S.

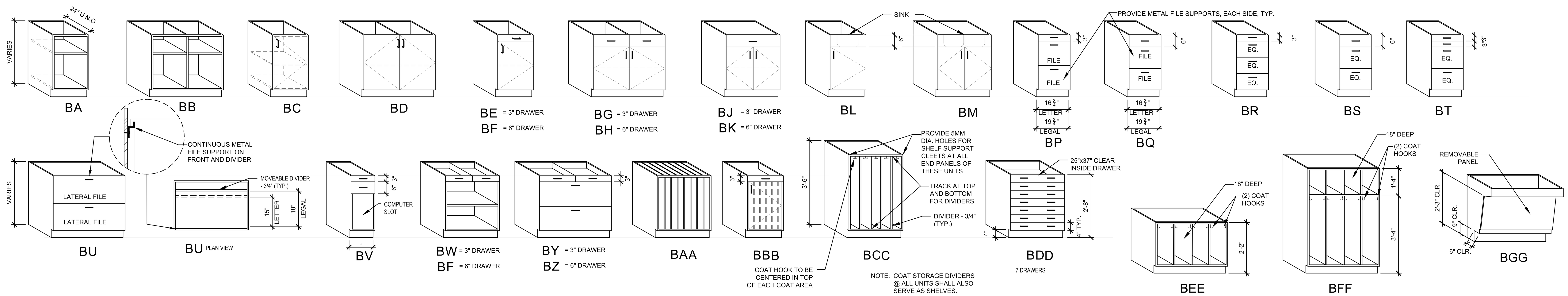


FOR UPPER CABINETS WITH OR WITHOUT DOORS PROVIDE THE FOLLOWING SHELVES: 24" HIGH UNITS WITH 1 ADJUSTABLE SHELF,
30" HIGH UNITS WITH 2 ADJUSTABLE SHELVES,
42" HIGH UNITS WITH 3 ADJUSTABLE SHELVES.
ALL WALL UNITS 13" DEEP CLEAR INSIDE UNLESS NOTED OTHERWISE (FACE OF BACK PANEL TO BACK OF DOOR)
SEE DETAIL E5/A8.50 FOR WALL REINFORCING FOR ALL CABINETS

U UPPER CABINETS

SCALE: N.T.S.

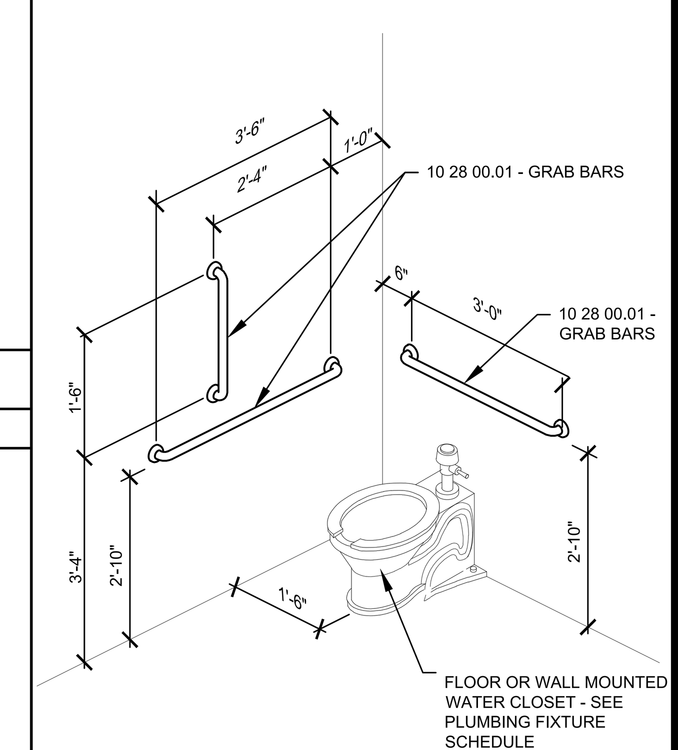
U = TYPICAL UPPER WALL CABINETS



B BASE CABINETS

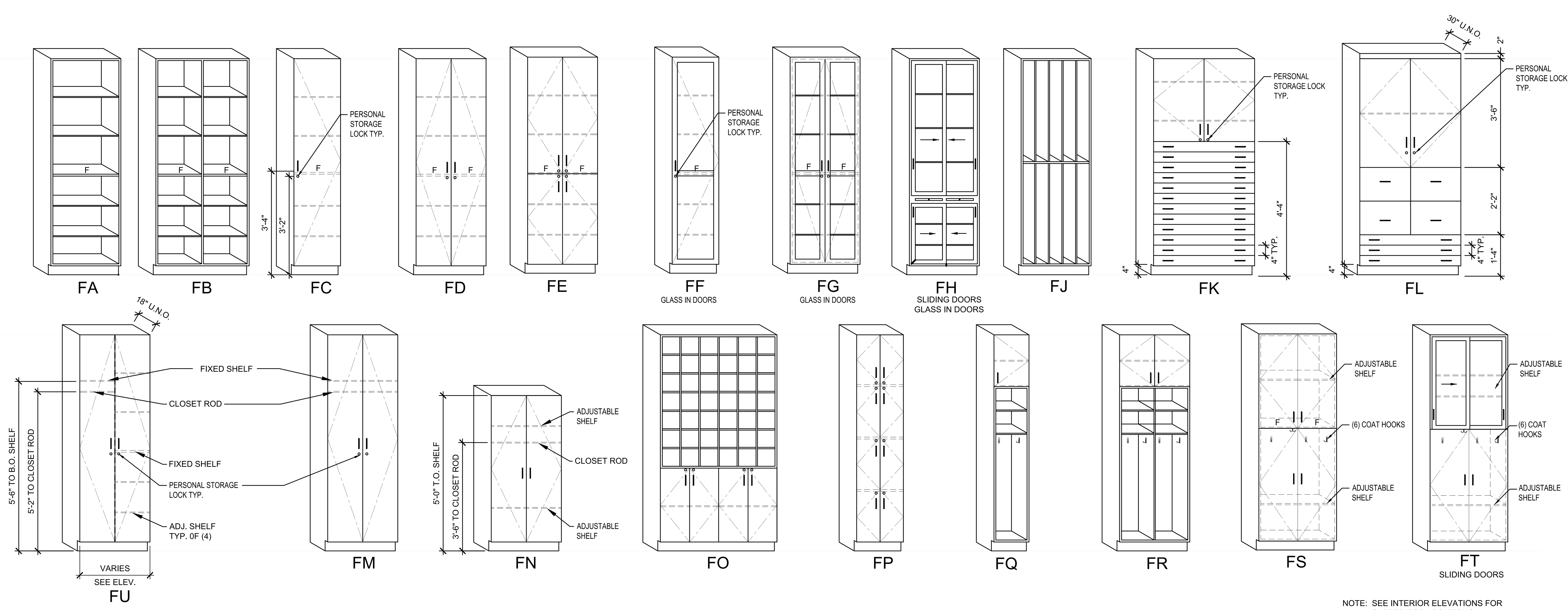
SCALE: N.T.S.

B = TYPICAL UNDER COUNTER BASE CABINETS



E11 TOILET GRAB BAR MOUNTING

SCALE: N.T.S. TYPICAL AT ALL ADA ACCESSIBLE TOILETS

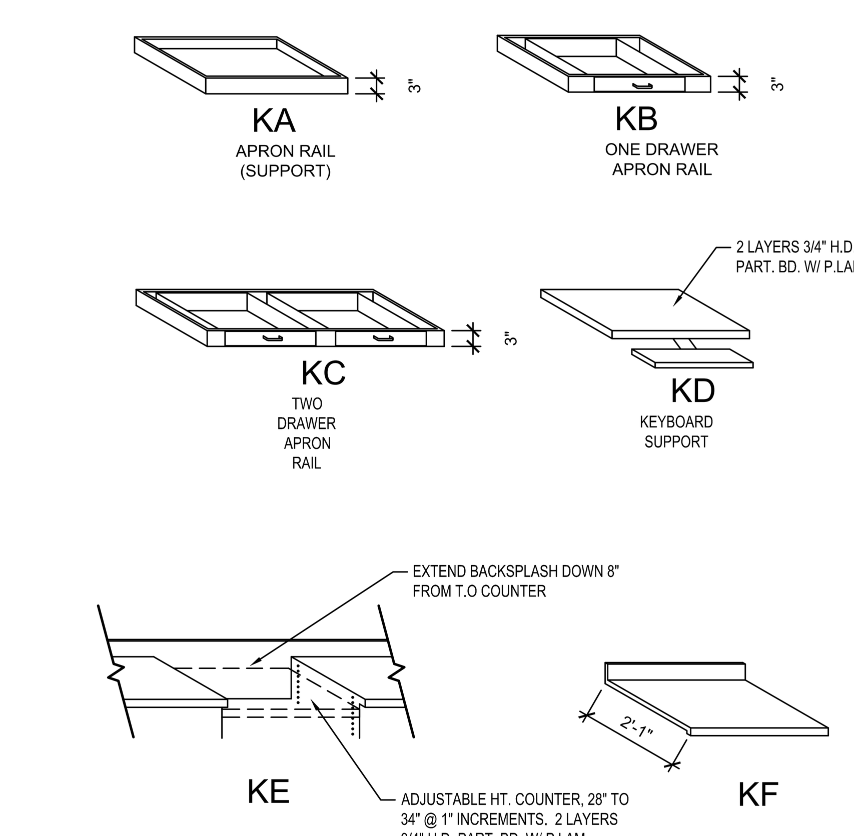


NOTE: SEE INTERIOR ELEVATIONS FOR SLOPED-TOP LOCATIONS

F FULL HEIGHT CABINETS

SCALE: N.T.S.

F = TYPICAL FULL HEIGHT STORAGE CABINETS



NOTE: SEE PLANS FOR LEG LOCATIONS WHEN REQUIRED DEPTH OF UNITS DETERMINED BY BASE UNITS

K KNEE HEIGHT CABINETS

SCALE: N.T.S.

K = TYPICAL KNEE HEIGHT UNITS

GENERAL NOTES

1. NOT ALL CABINETS SHOWN ON THIS SHEET ARE USED IN THIS PROJECT.
2. NON-SYMMETRICAL UNITS MAY MIRROR CONFIGURATION. SEE INTERIOR ELEVATIONS FOR ORIENTATION.
3. FOR GENERAL GRAB BAR MOUNTING HEIGHT INFORMATION SEE DETAIL E11 ON THIS SHEET.
4. NO EXPOSED OR CAPPED FASTENERS ARE PERMITTED ON ANY EXPOSED EXTERIOR OR EXPOSED INTERIOR CABINET SURFACES.
5. CAPPED FASTENERS ARE PERMITTED ON SEMI-EXPOSED CABINET SURFACES TO CONCEAL WALL MOUNTING ATTACHMENT OF CABINET ONLY.
6. UNLESS NOTED OTHERWISE, ALL FULL HEIGHT CABINETS ARE 24" DEEP. CABINETS HAVE FOUR ADJUSTABLE SHELVES AND ONE FIXED SHELF.
7. FINISHED LAMINATE SURFACE CABINET TOP IS REQUIRED FOR ALL FULL HEIGHT CABINETS 80" OR LESS.
8. UNLESS NOTED OTHERWISE, BASE UNITS ARE 24" DEEP WITH SHELVING ADJUSTABLE.
9. UNLESS NOTED OTHERWISE, UPPER CABINETS ARE 14" DEEP WITH SHELVING ADJUSTABLE.
10. TOP OF COUNTER TOPS VARY. VERIFY HEIGHTS WITH INTERIOR ELEVATIONS.

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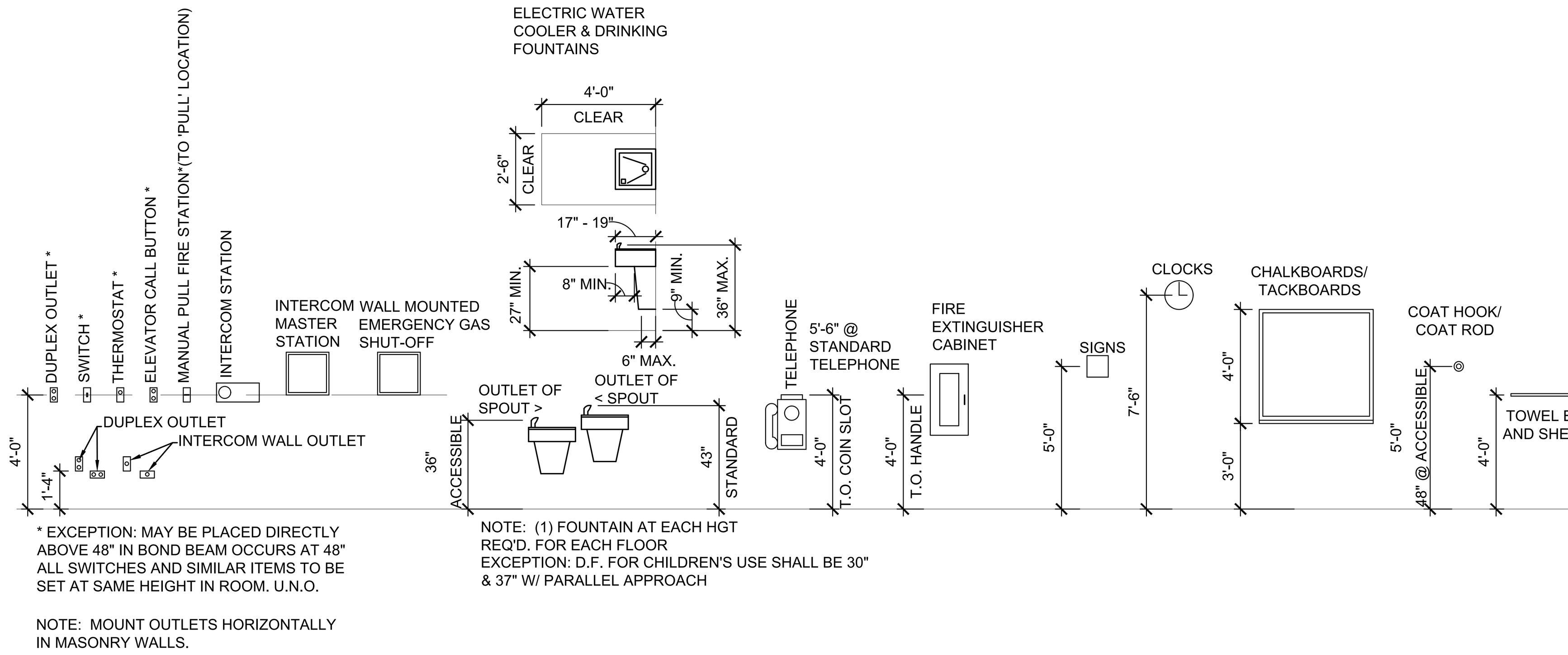
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

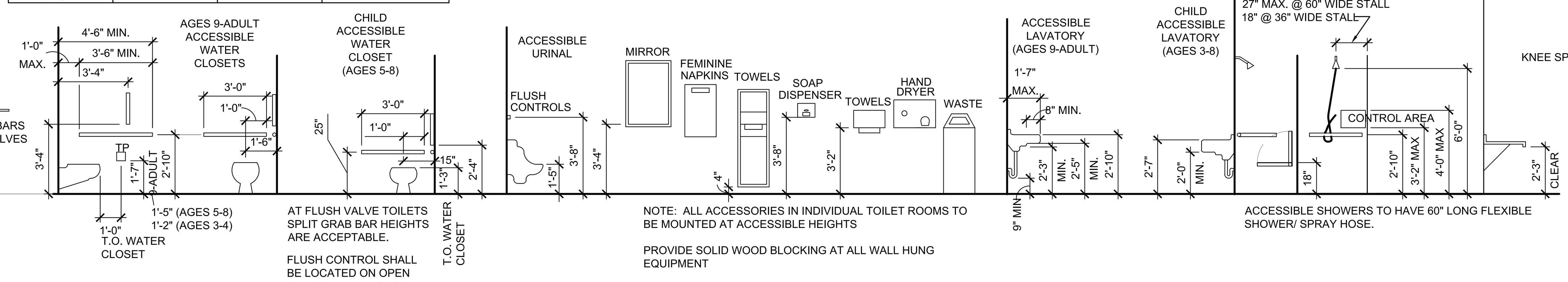
DATE
12/18/2023

SHEET NAME
TYPICAL MILLWORK

SHEET
A7.01

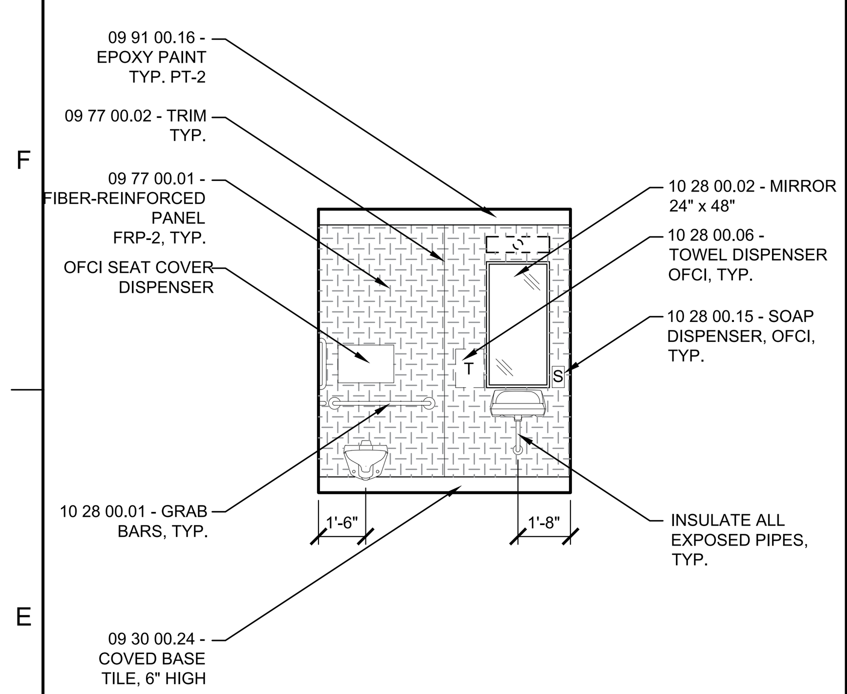


ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12 AND ADULTS			
	AGES 3 - 4	AGES 5 - 8	AGES 9 - ADULT
WATER CLOSET CENTERLINE	12 INCHES	15 INCHES	18 INCHES
WATER CLOSET HEIGHT	12 INCHES	15 INCHES	17 INCHES STD. ADA
GRAB BAR HEIGHT CENTERLINE	20 INCHES	25 INCHES	34 INCHES
DISPENSER HEIGHT	14 INCHES	17 INCHES	19 INCHES



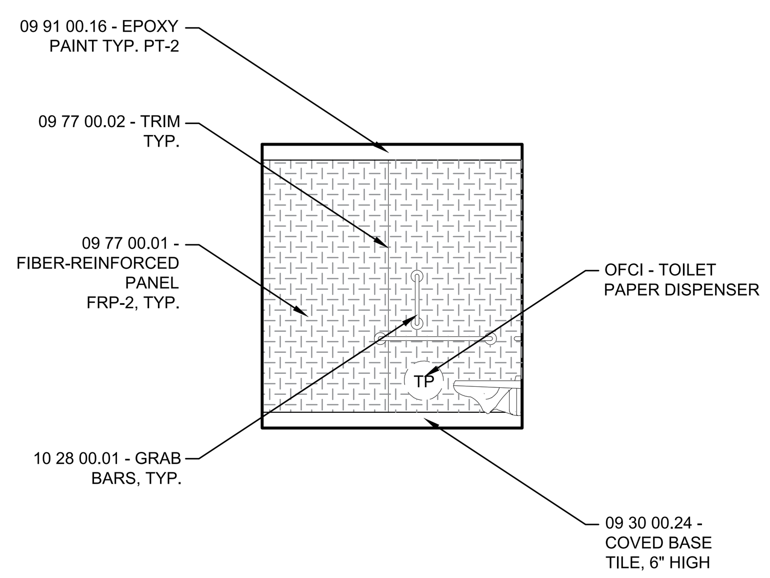
G1 STANDARD MOUNTING HEIGHTS

N.T.S.



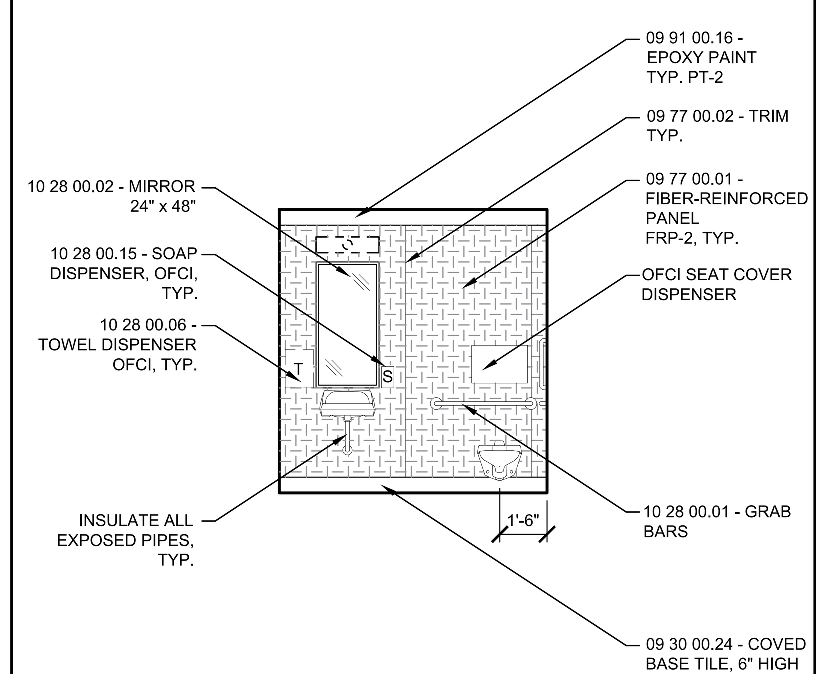
E1 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 103B, 106, 107, 117B,131B,140,146B



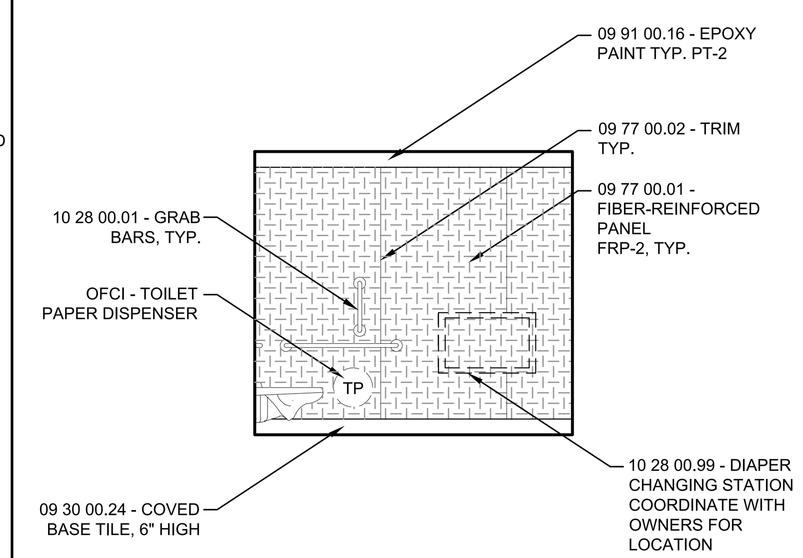
E3 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 103B, 106, 107, 117B, 131B,140,146B



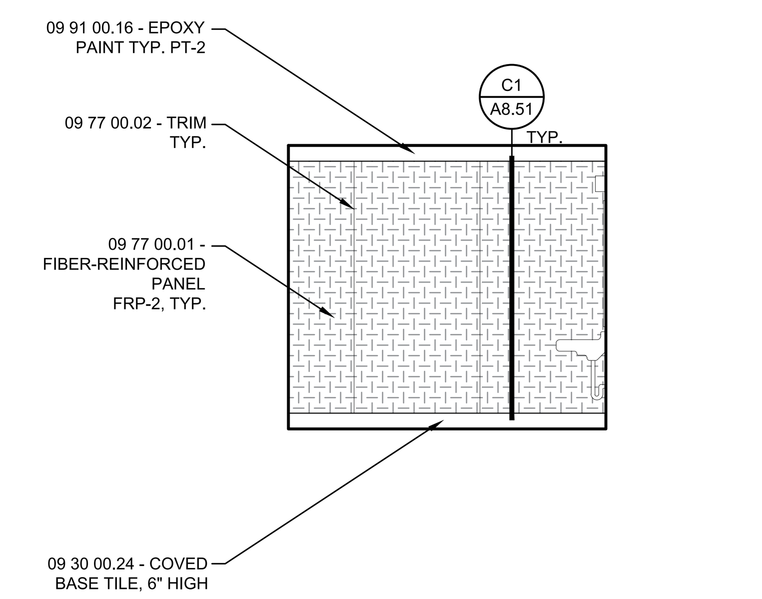
E5 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 135



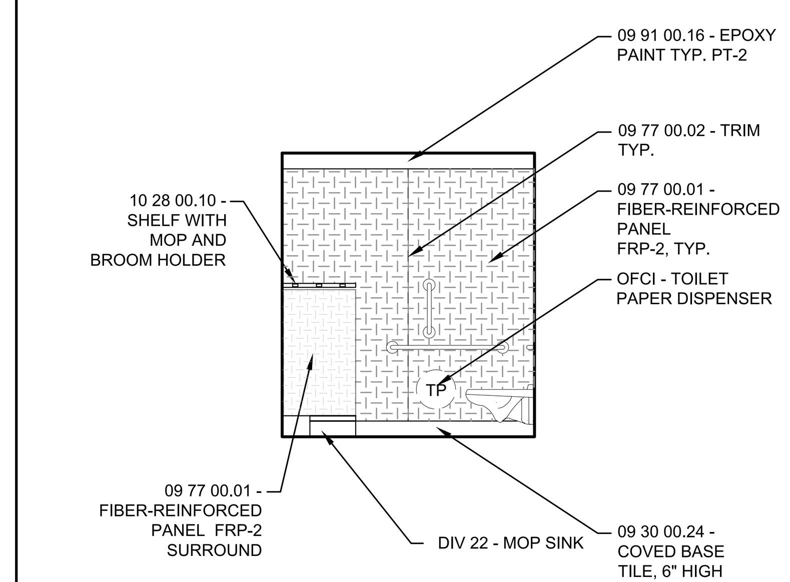
E7 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 135



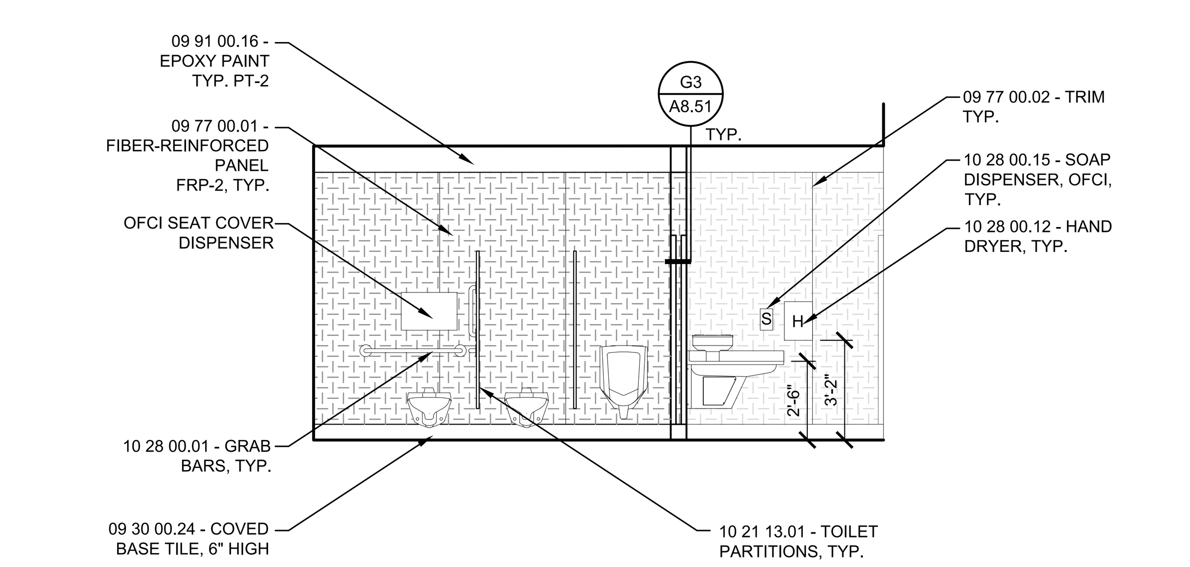
E9 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 135



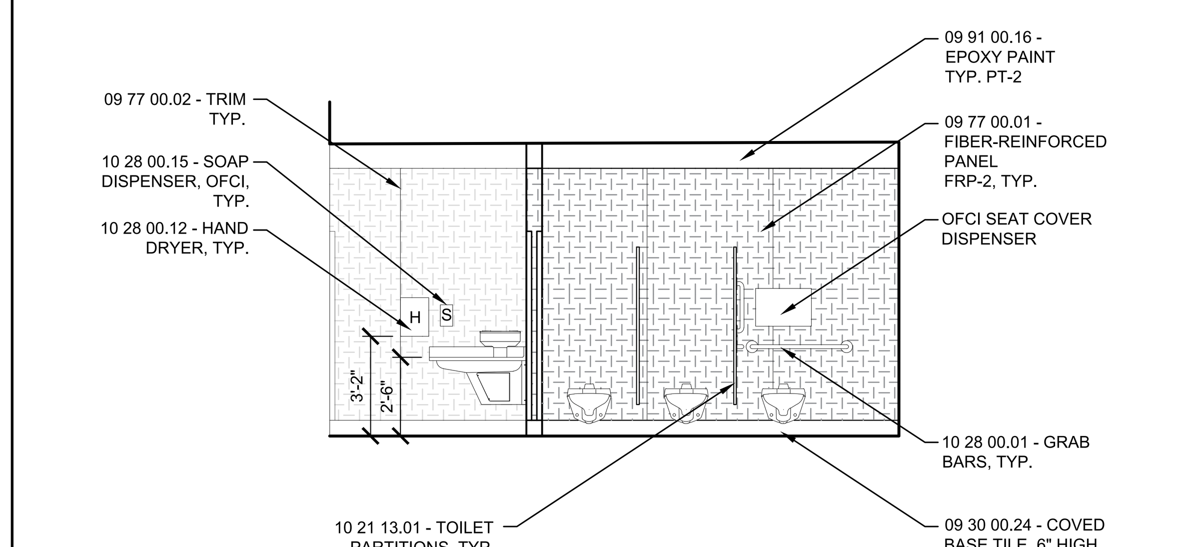
E11 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 131B



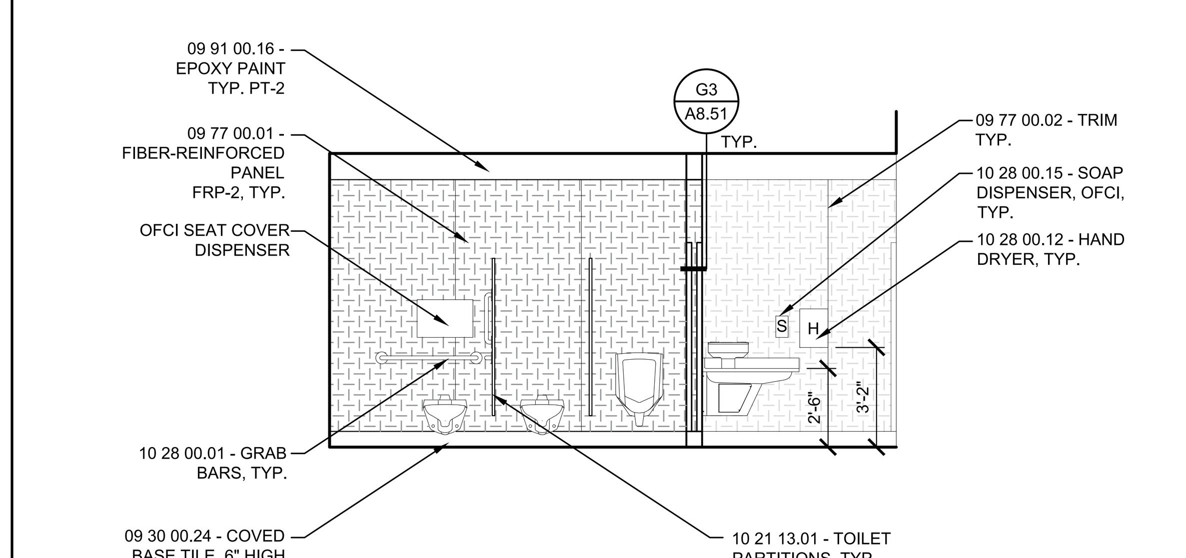
C1 BOY'S RESTROOM

SCALE: 1/4" = 1'-0" ROOM 124, 142



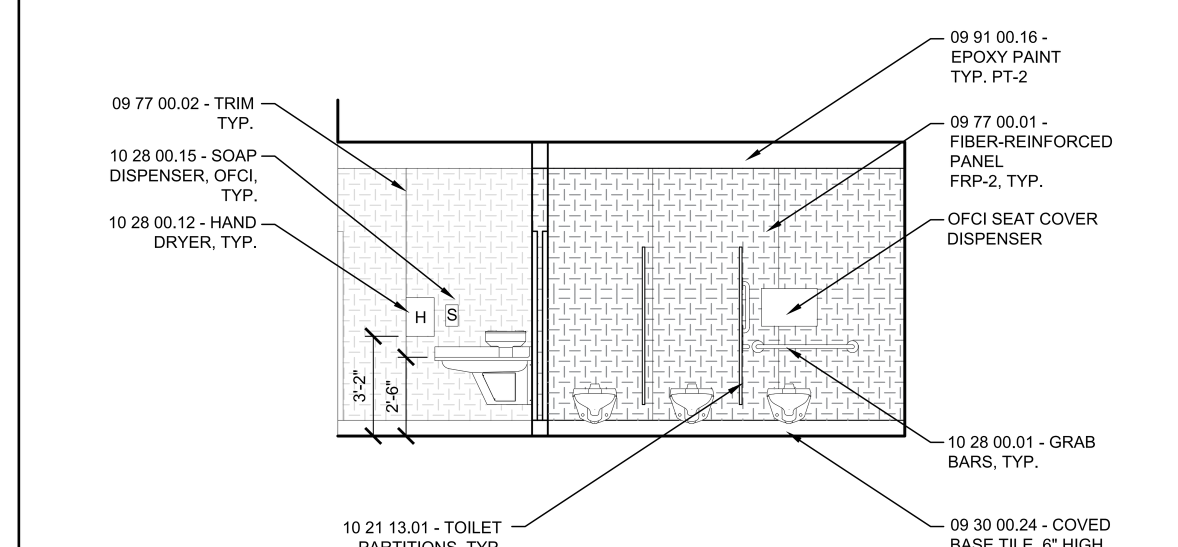
C4 GIRL'S RESTROOM

SCALE: 1/4" = 1'-0" ROOM 123, 143



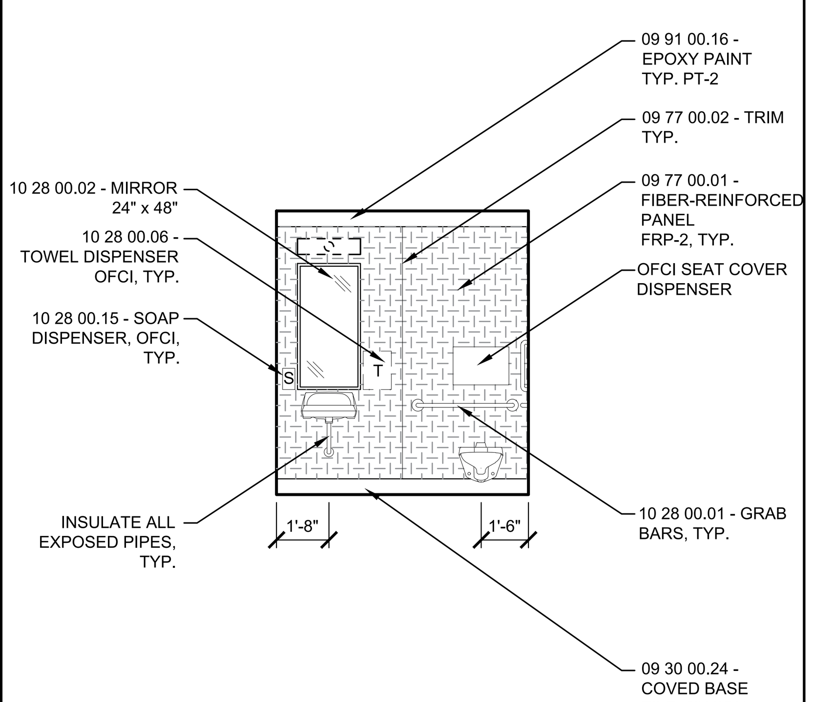
C7 BOY'S RESTROOM

SCALE: 1/4" = 1'-0" ROOM 204



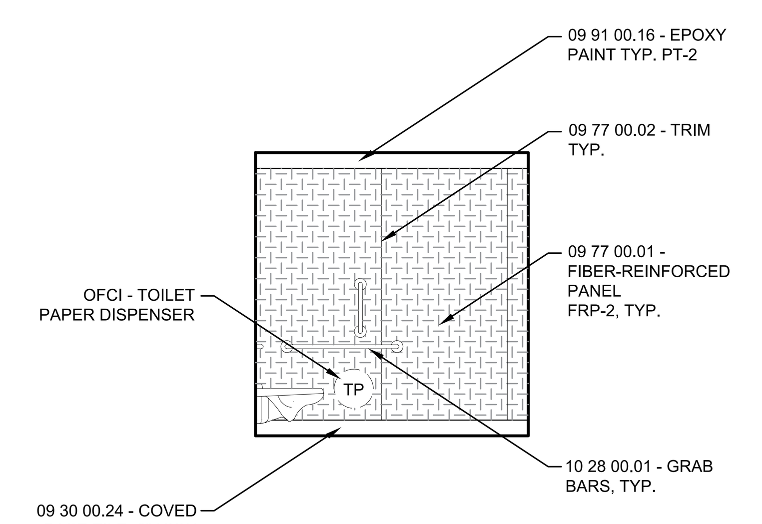
C10 GIRL'S RESTROOM

SCALE: 1/4" = 1'-0" ROOM 203



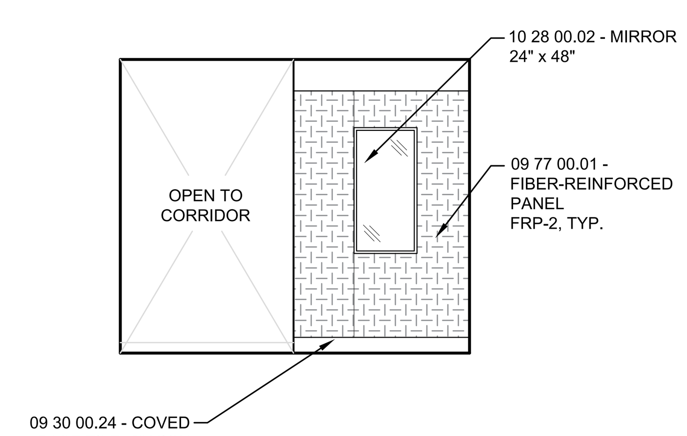
A1 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 205B, 210, 222B, 223



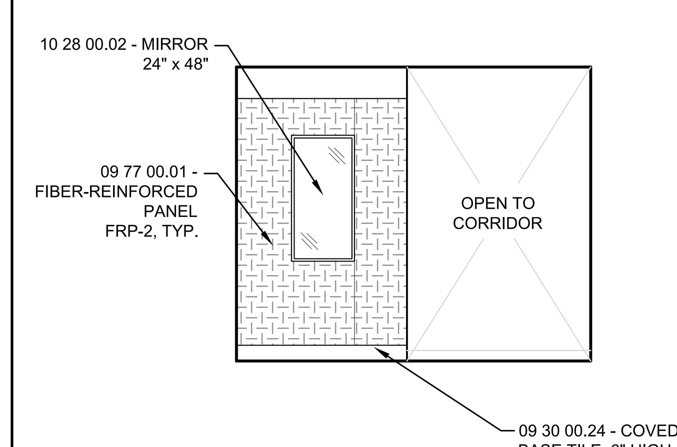
A3 UNISEX RESTROOM

SCALE: 1/4" = 1'-0" ROOM 205B, 210, 222B, 223



A5 BOY'S RESTROOM

SCALE: 1/4" = 1'-0" ROOM 124, 142, 204



A7 GIRL'S RESTROOM

SCALE: 1/4" = 1'-0" ROOM 123, 143, 203

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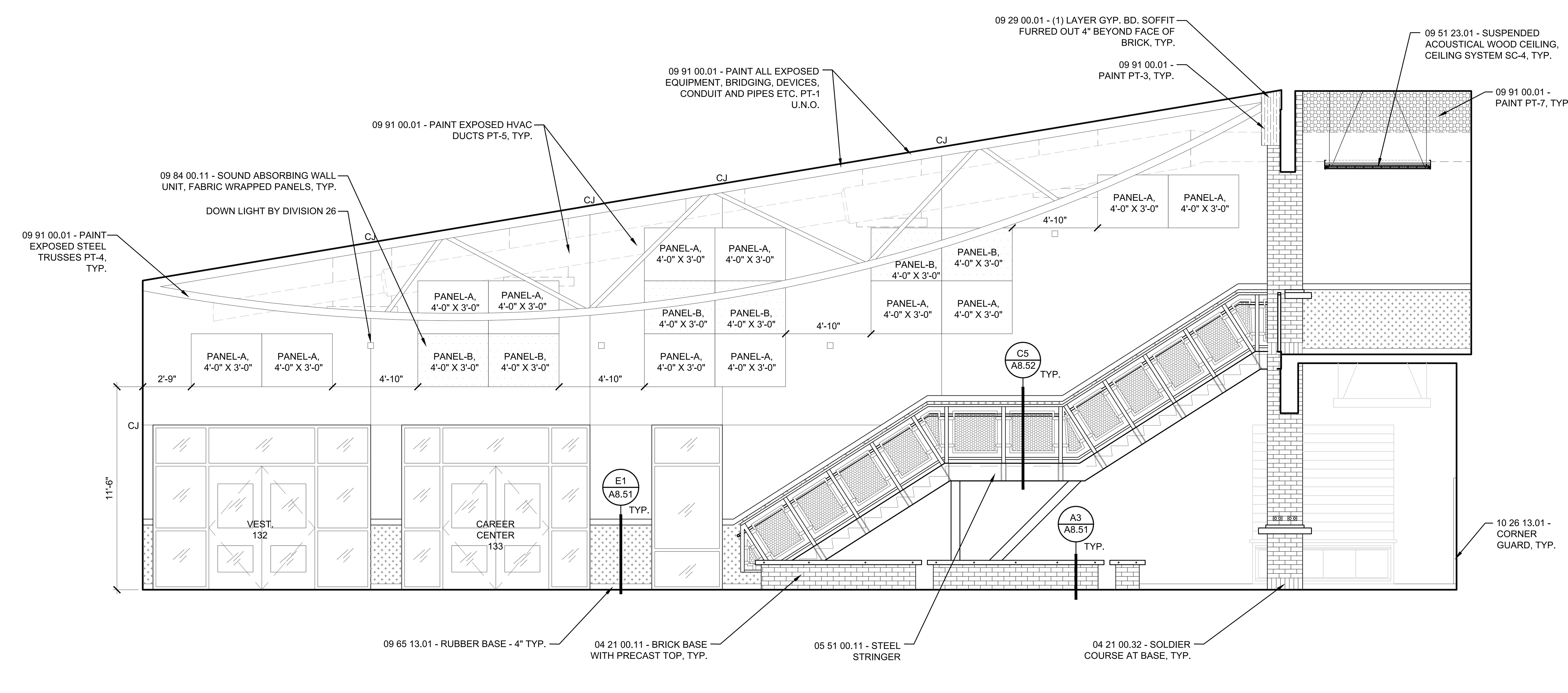
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

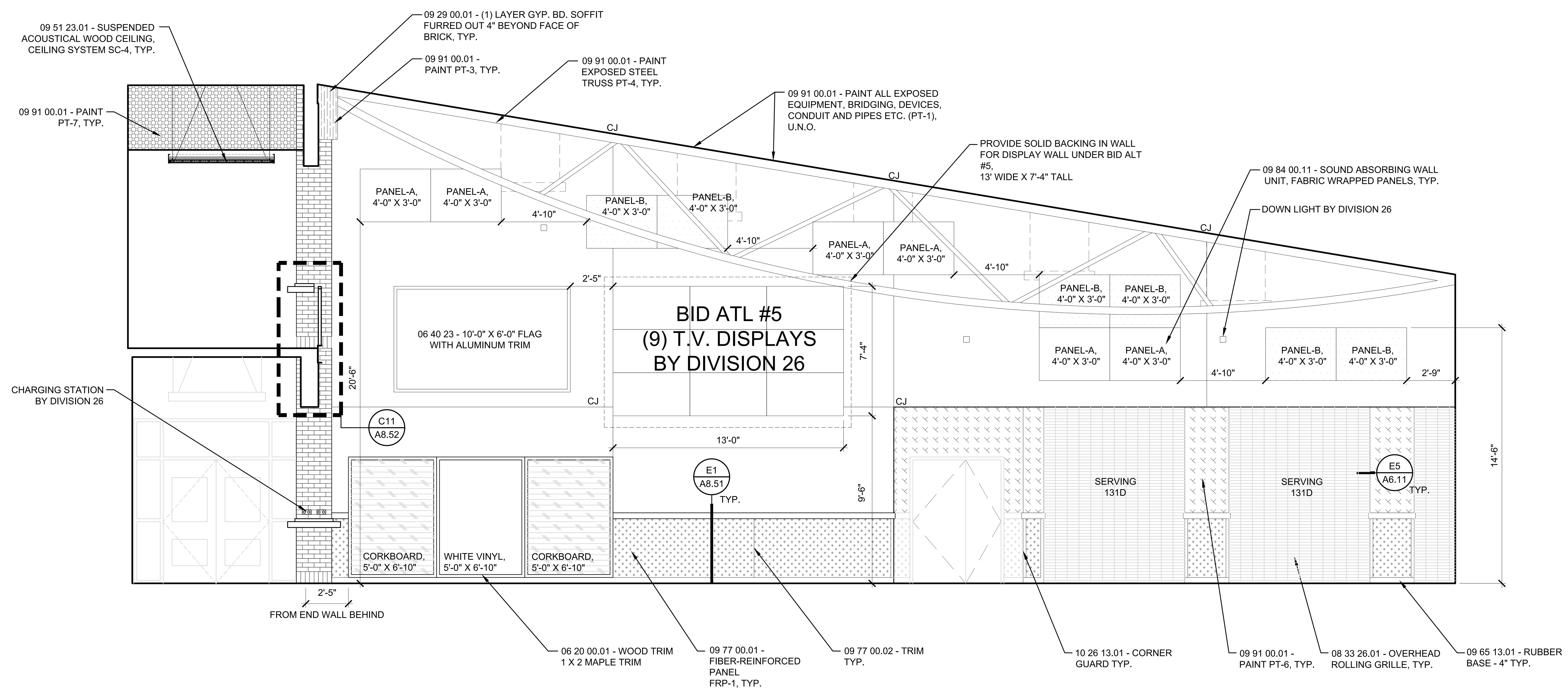
SHEET NAME
INTERIOR ELEVATIONS

SHEET
A7.10



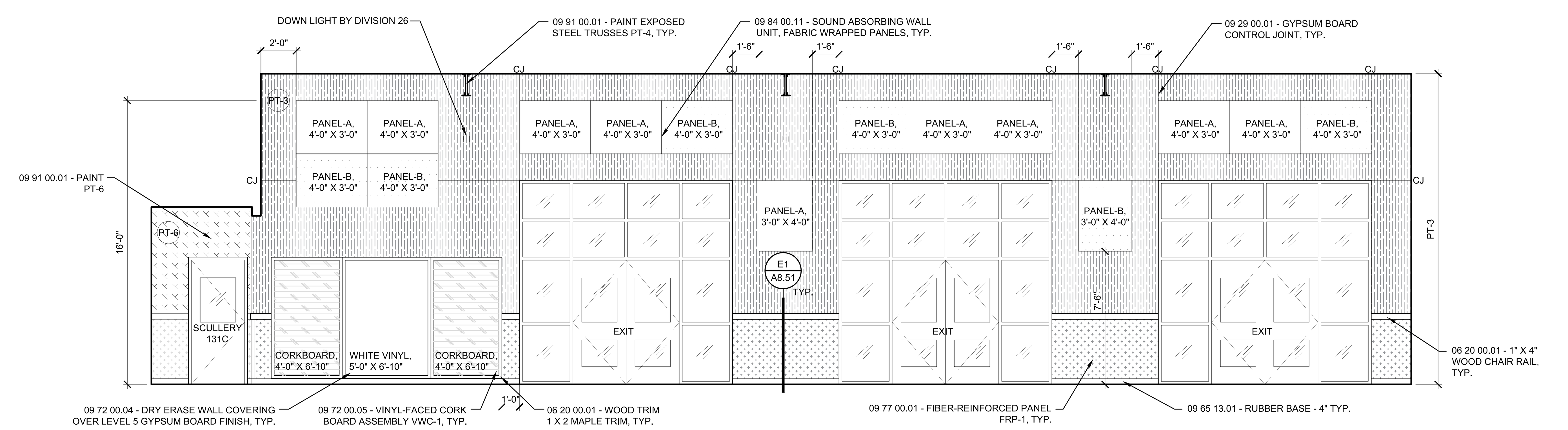
F1 COMMONS

SCALE: 1/4" = 1'-0" ROOM 134



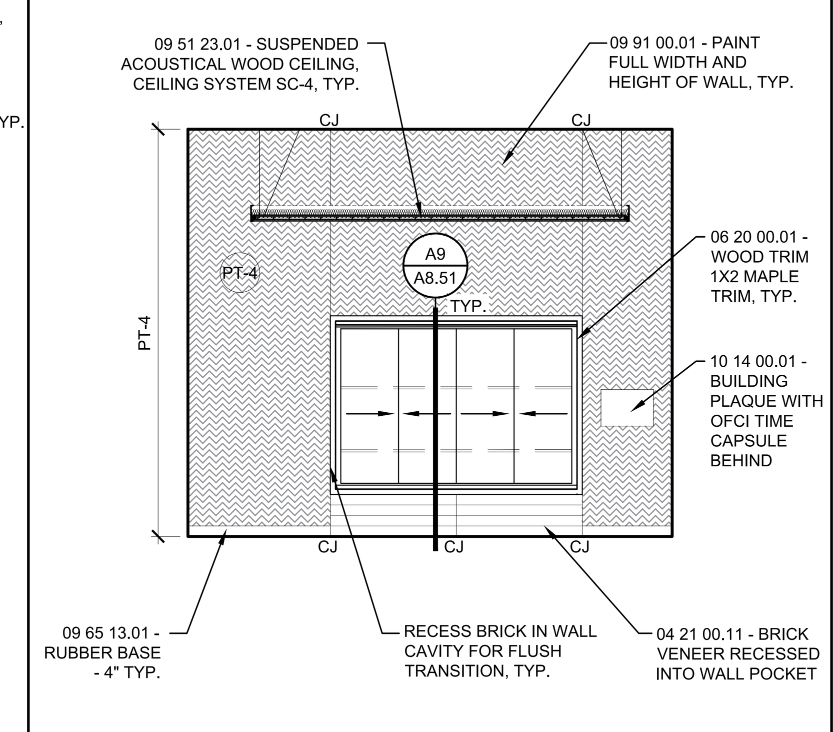
C1 COMMONS

SCALE: 1/4" = 1'-0" ROOM 134



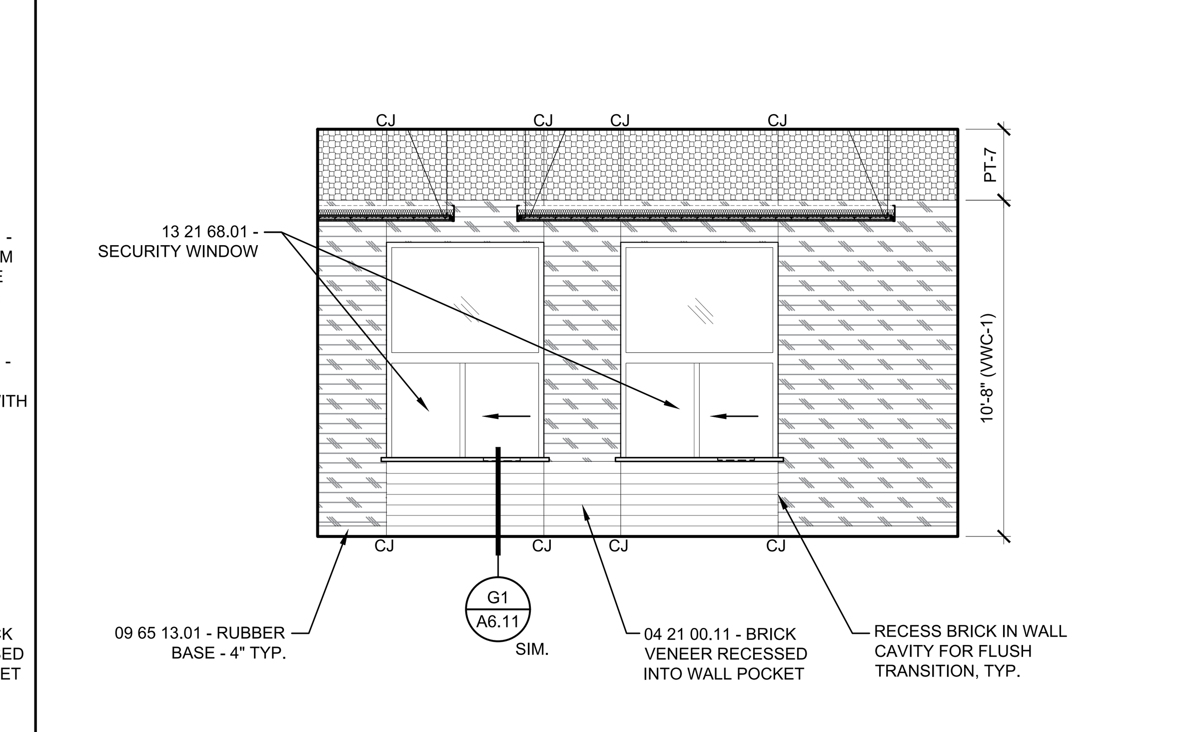
A1 COMMONS

SCALE: 1/4" = 1'-0" ROOM 134



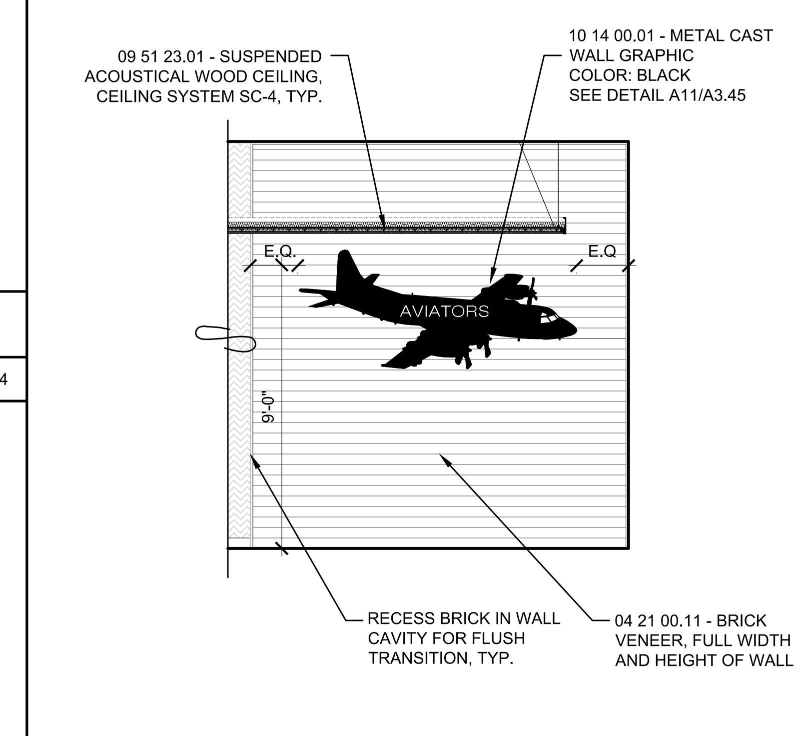
G8 VESTIBULE

SCALE: 1/4" = 1'-0" ROOM 100



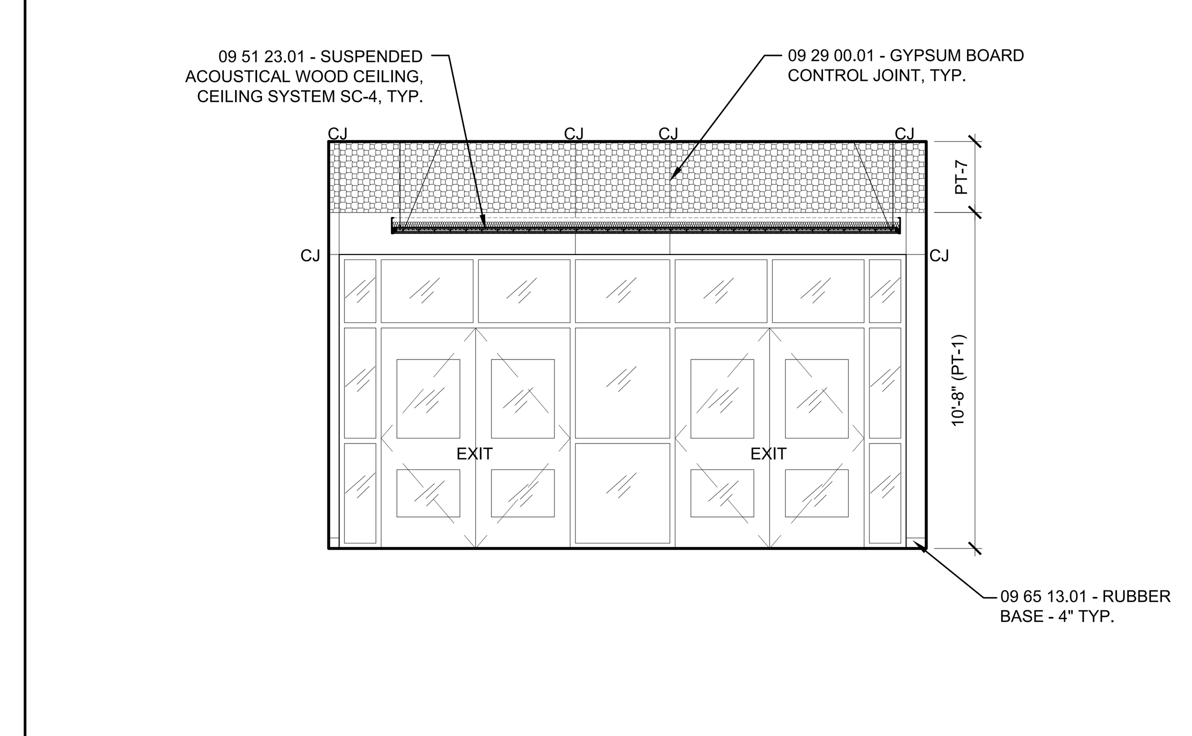
G10 VESTIBULE

SCALE: 1/4" = 1'-0" ROOM 100



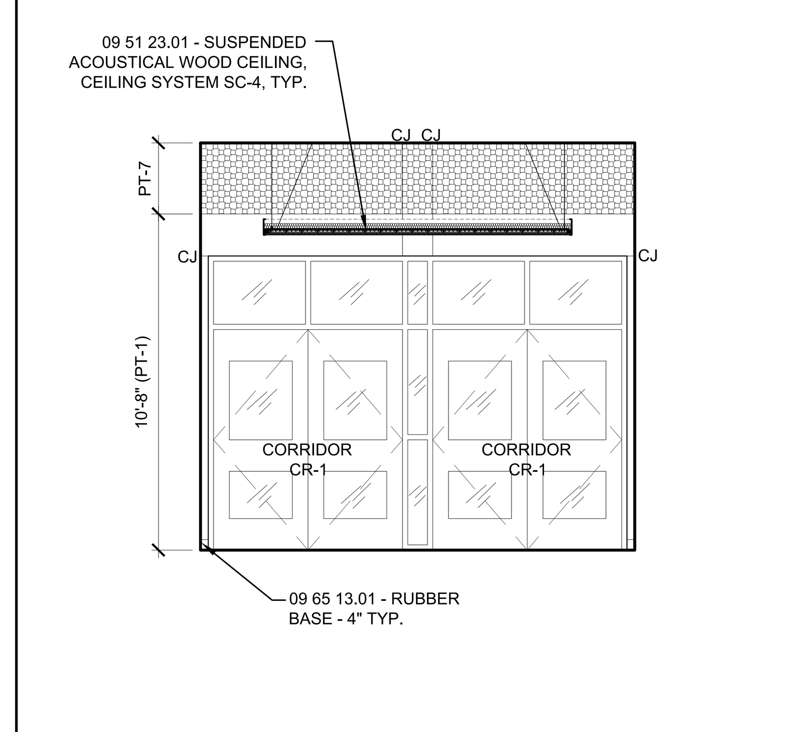
E8 VESTIBULE

SCALE: 1/4" = 1'-0" ROOM 100



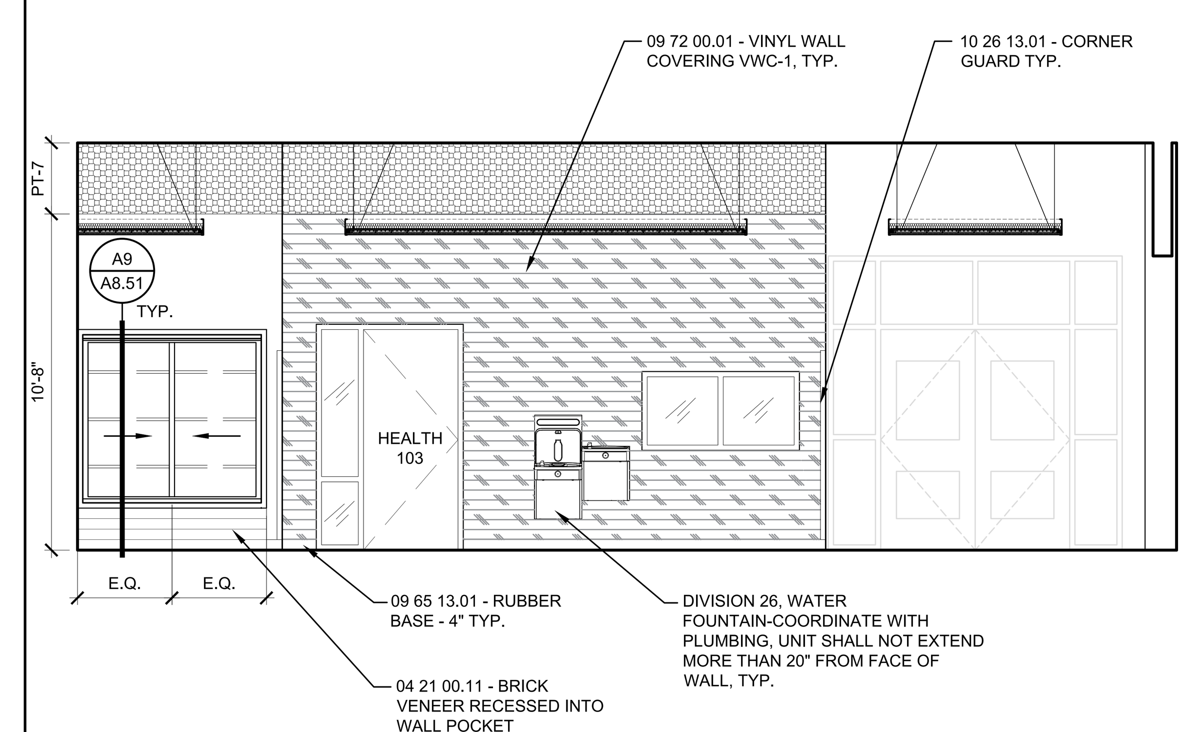
E10 VESTIBULE

SCALE: 1/4" = 1'-0" ROOM 100



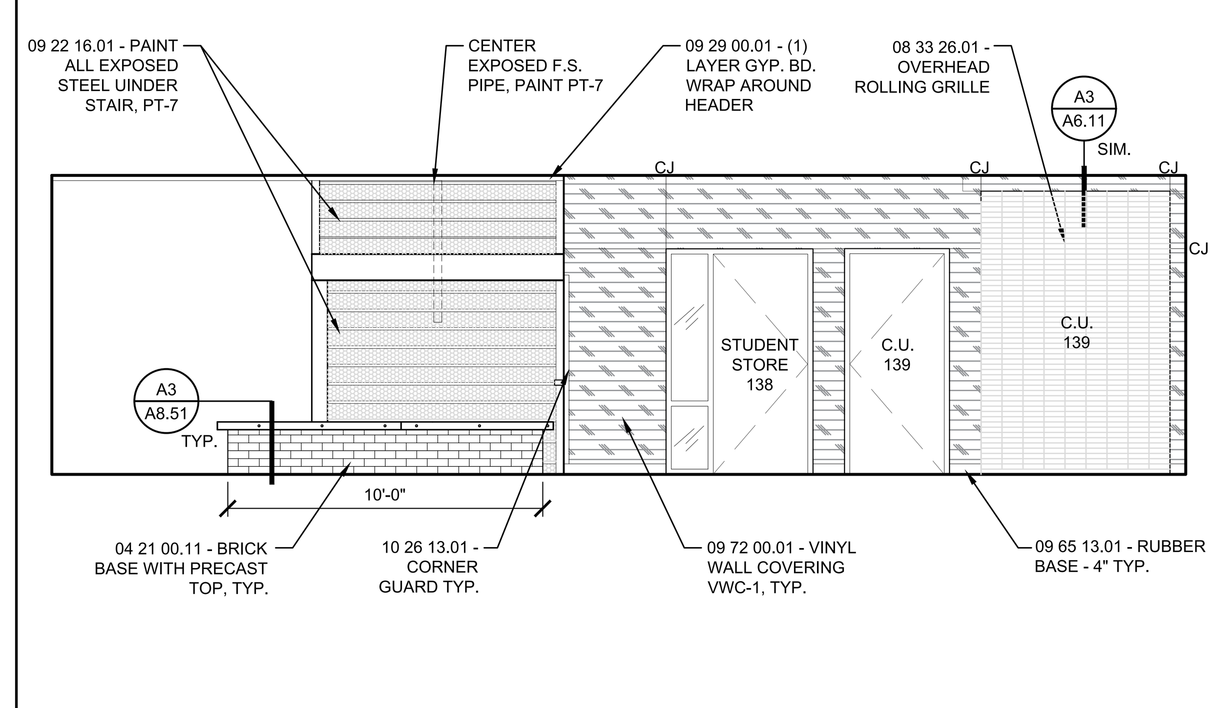
C8 VESTIBULE

SCALE: 1/4" = 1'-0" ROOM 100



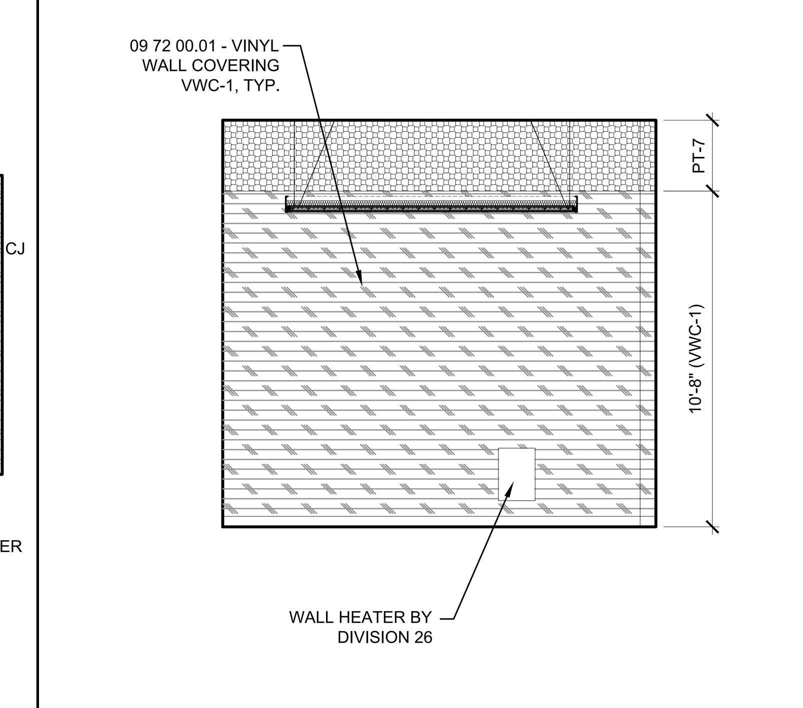
C10 CORRIDOR CR-1

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



A8 CORRIDOR CR-1

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



A11 VESTIBULE

SCALE: 1/4" = 1'-0" ROOM 100

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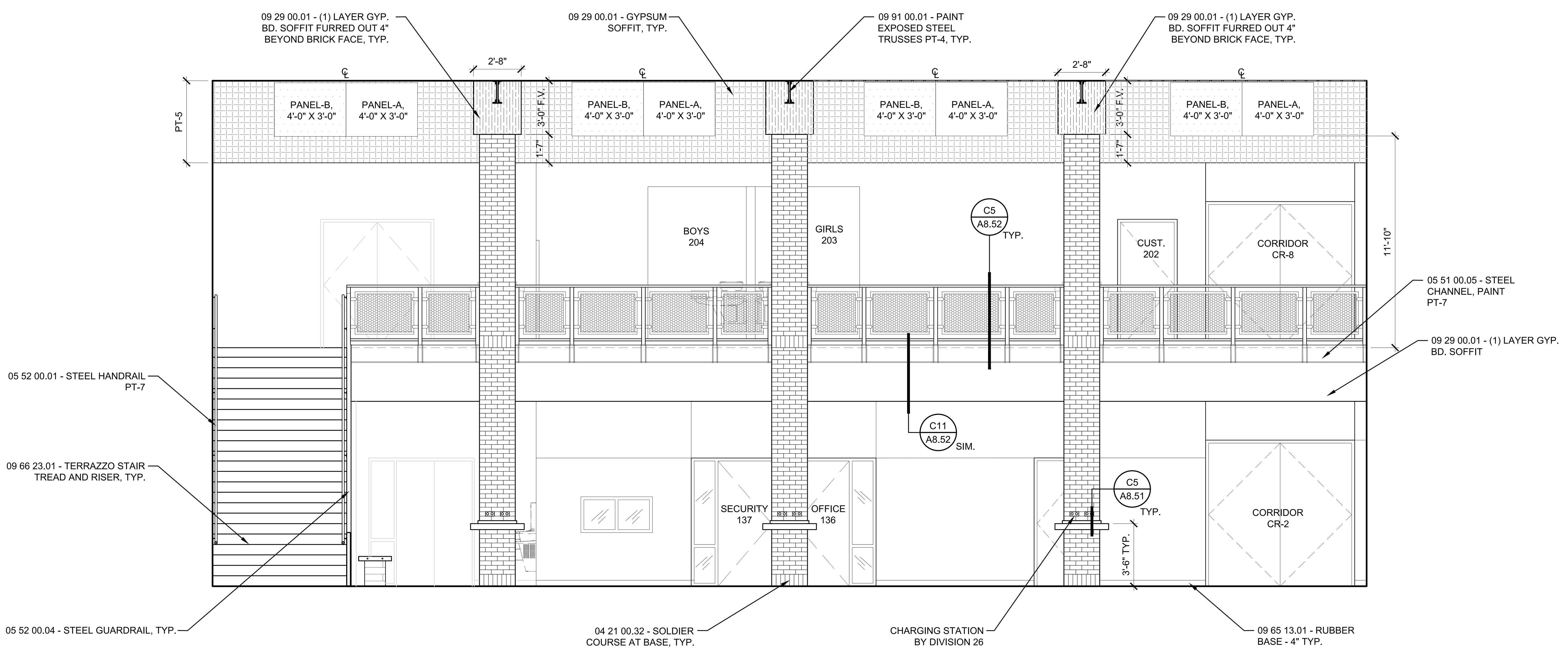
REGISTERED ARCHITECT 9354 BRANDON D. WILM STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE 12/18/2023

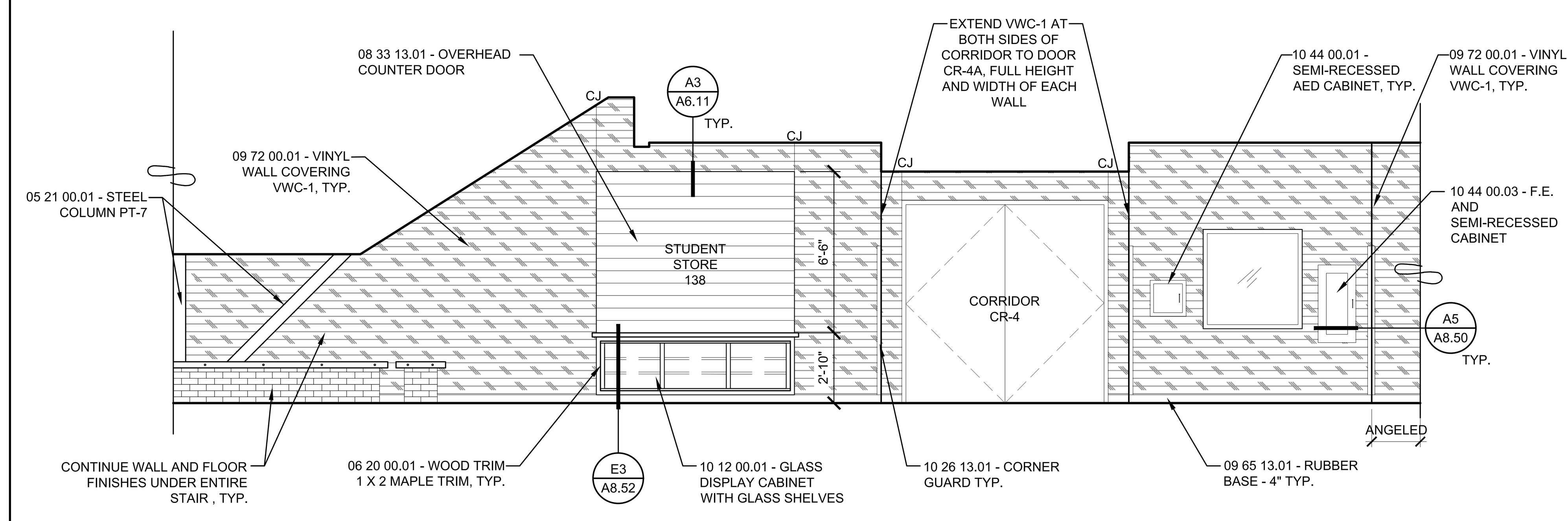
SHEET NAME
INTERIOR ELEVATIONS

SHEET
A7.11



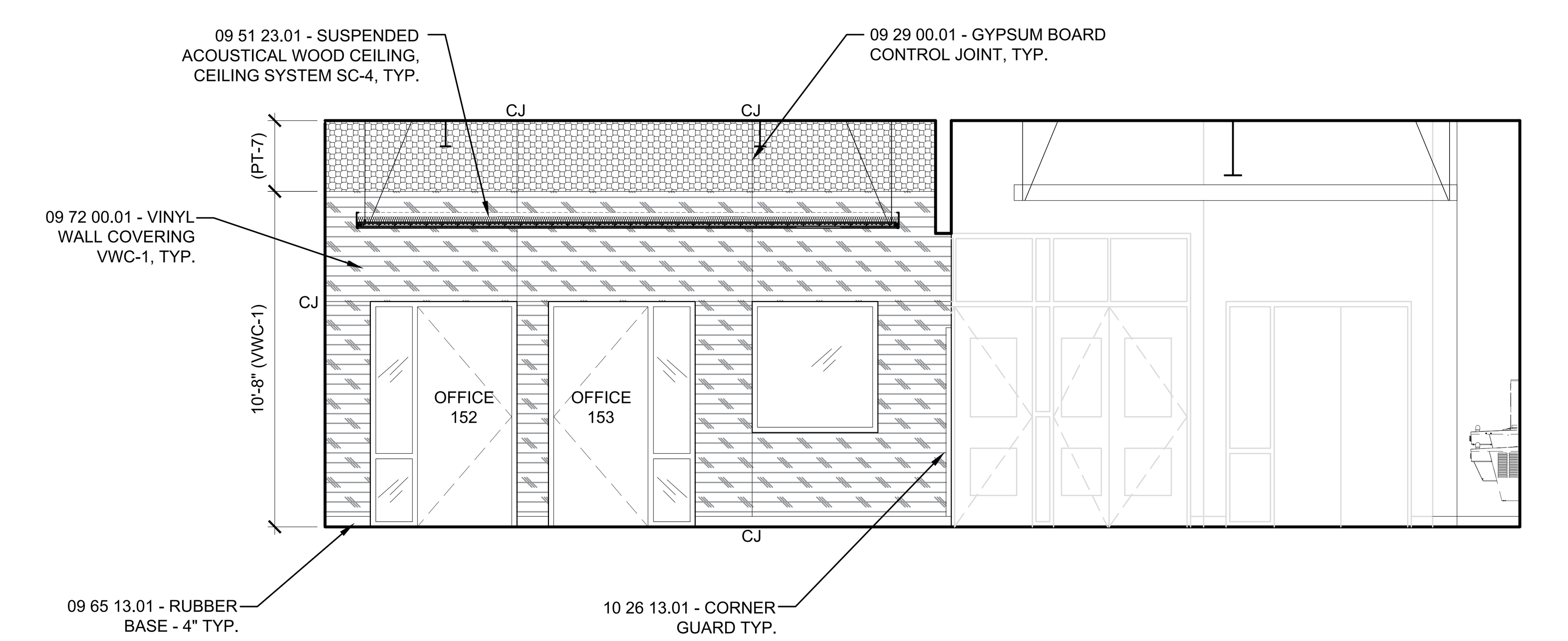
E1 **COMMONS**

SCALE: 1/4" = 1'-0" ROOM 134



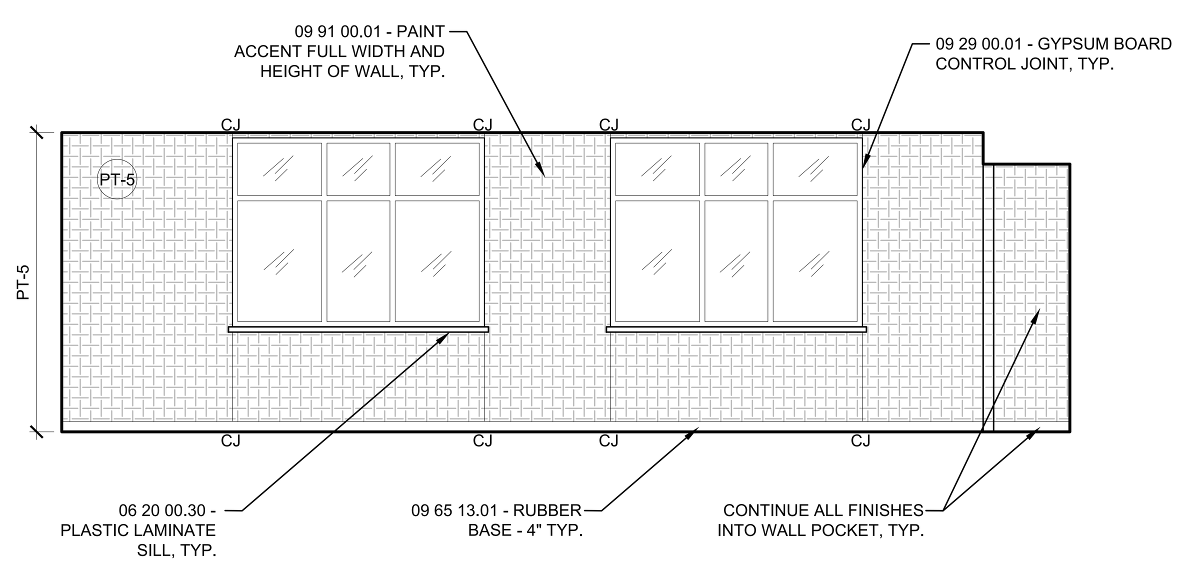
G8 **CORRIDOR CR-1**

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



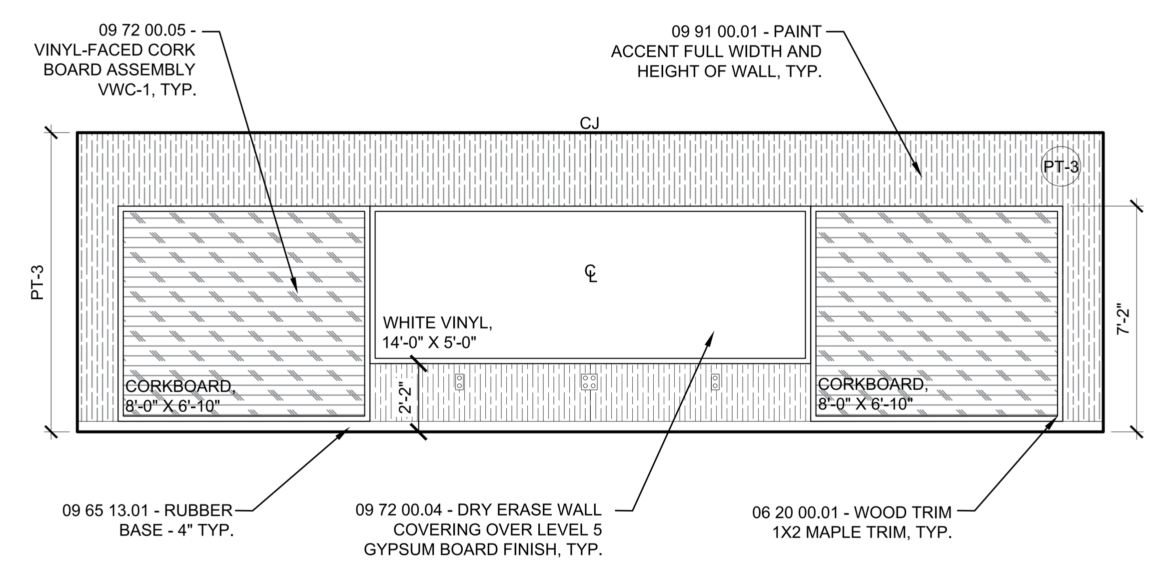
E8 **CORRIDOR CR-1**

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



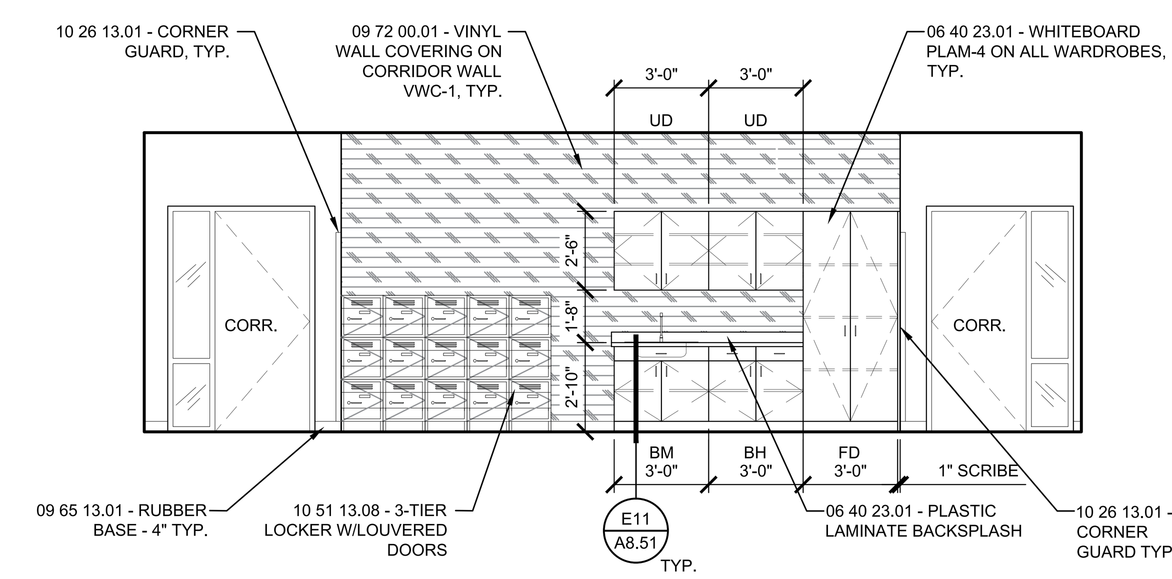
C1 **LEARNING CENTER**

SCALE: 1/4" = 1'-0" ROOM 113, 114, 144, 145



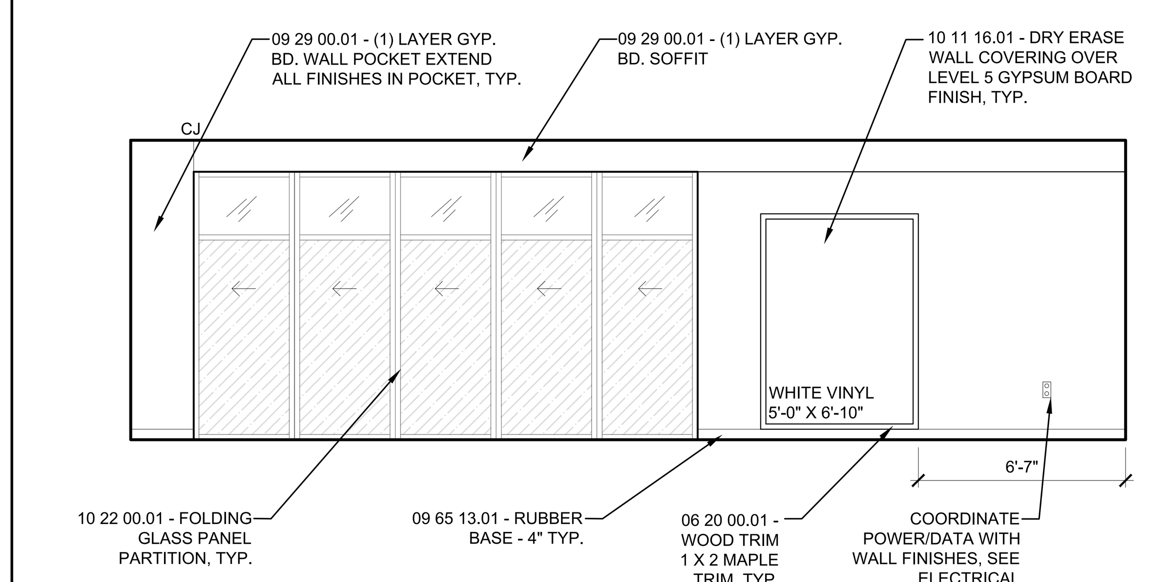
C4 **LEARNING CENTER**

SCALE: 1/4" = 1'-0" ROOM 113, 114, 118, 144, 145, 149, 150



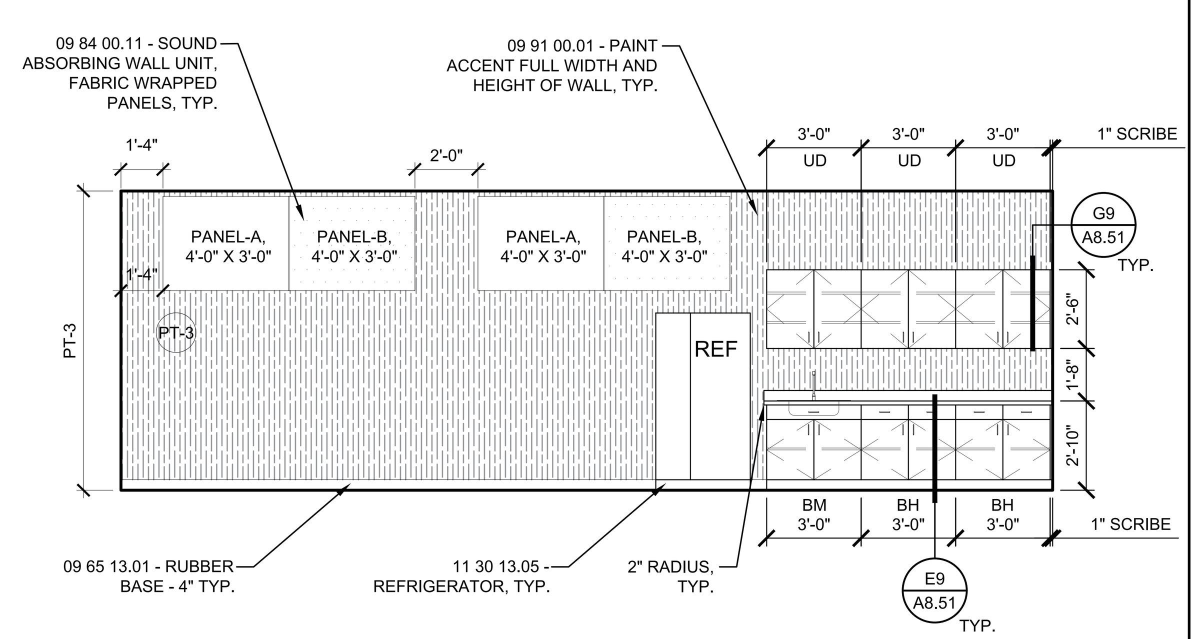
C7 **LEARNING CENTER**

SCALE: 1/4" = 1'-0" ROOM 113, 114, 118, 144, 145, 149, 150



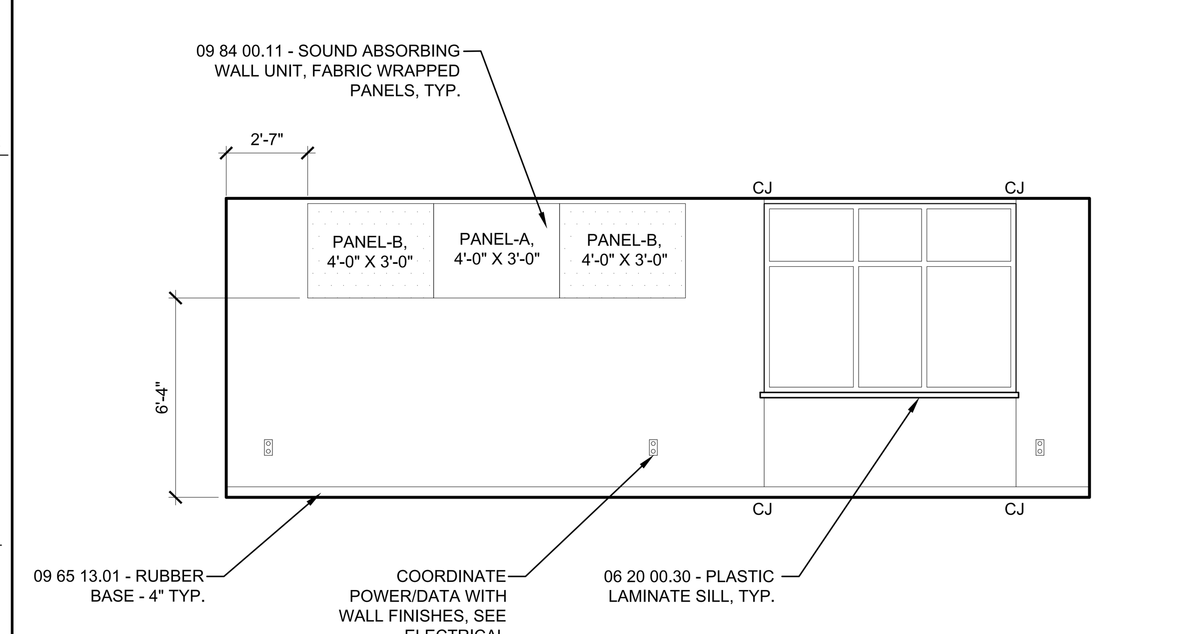
C10 **LEARNING CENTER**

SCALE: 1/4" = 1'-0" ROOM 113, 114, 144, 145



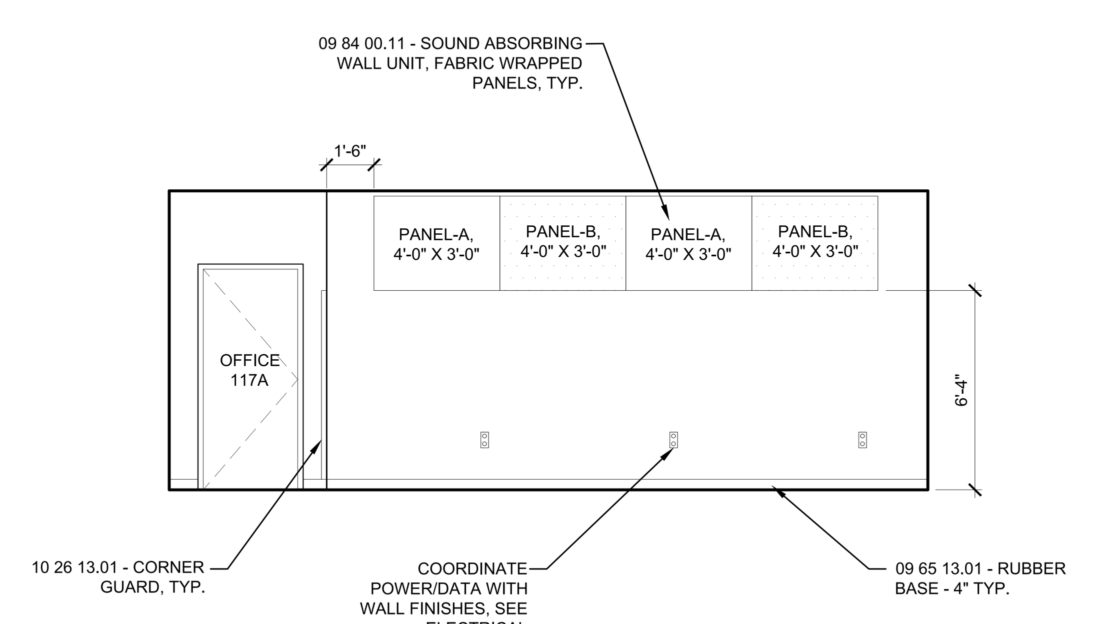
A1 **TEACHERS**

SCALE: 1/4" = 1'-0" ROOM 117, 146, 205, 222



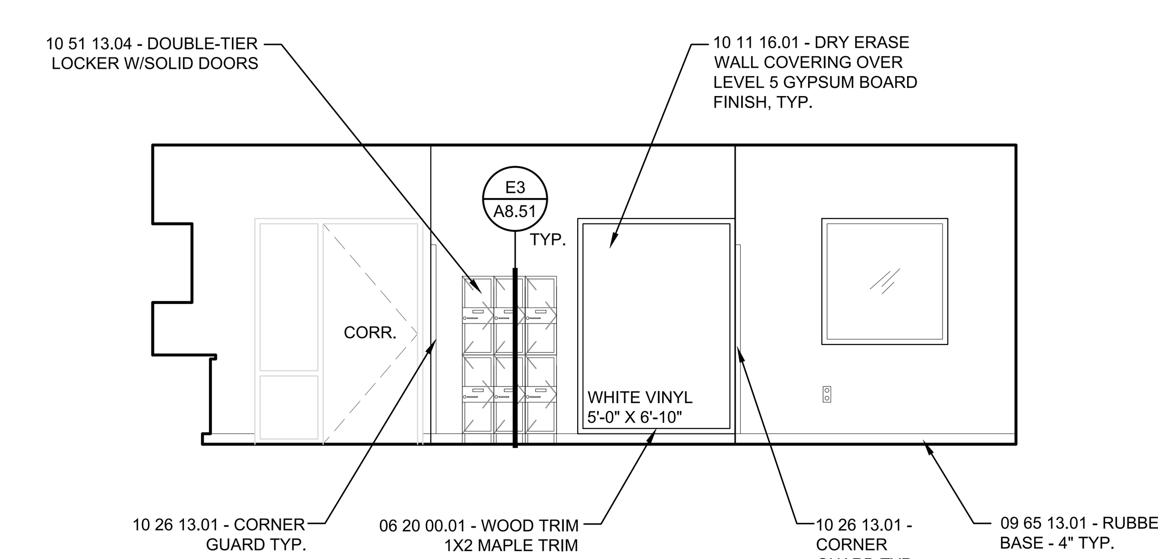
A4 **TEACHERS**

SCALE: 1/4" = 1'-0" ROOM 117, 146, 205, 222



A7 **TEACHERS**

SCALE: 1/4" = 1'-0" ROOM 117, 146, 205, 222



A10 **TEACHERS**

SCALE: 1/4" = 1'-0" ROOM 117, 146, 205, 222

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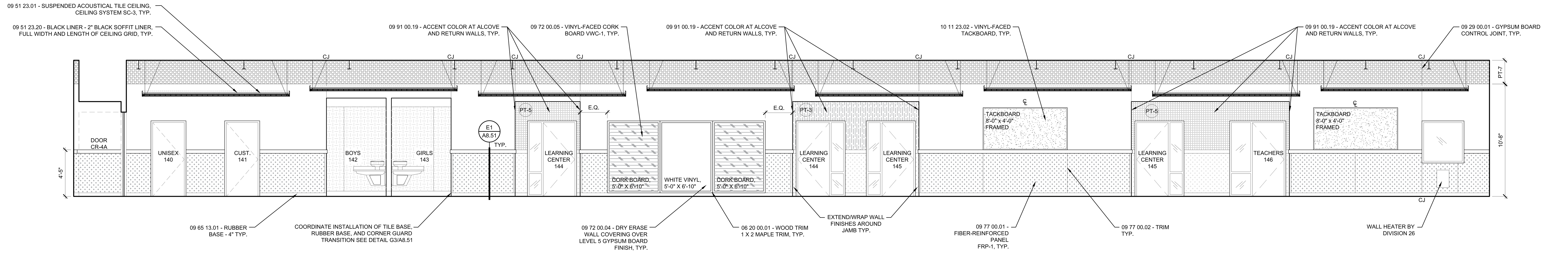
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
INTERIOR ELEVATIONS

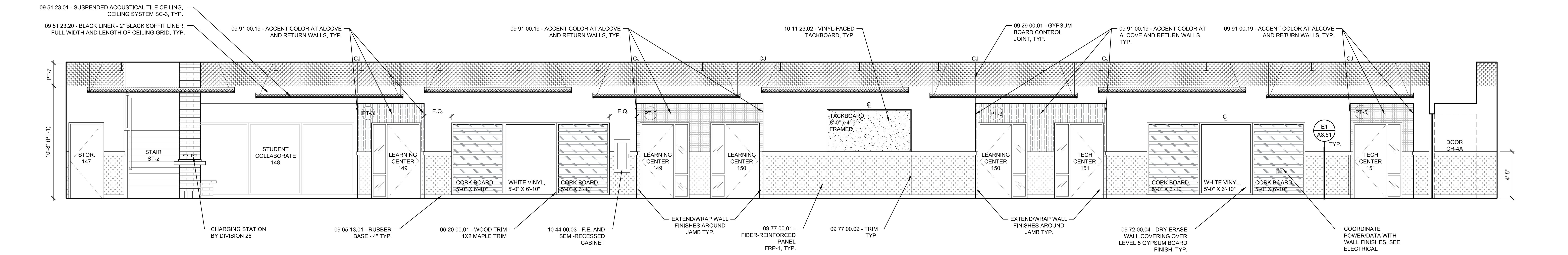
SHEET
A7.12



G1 CORRIDOR CR-4

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

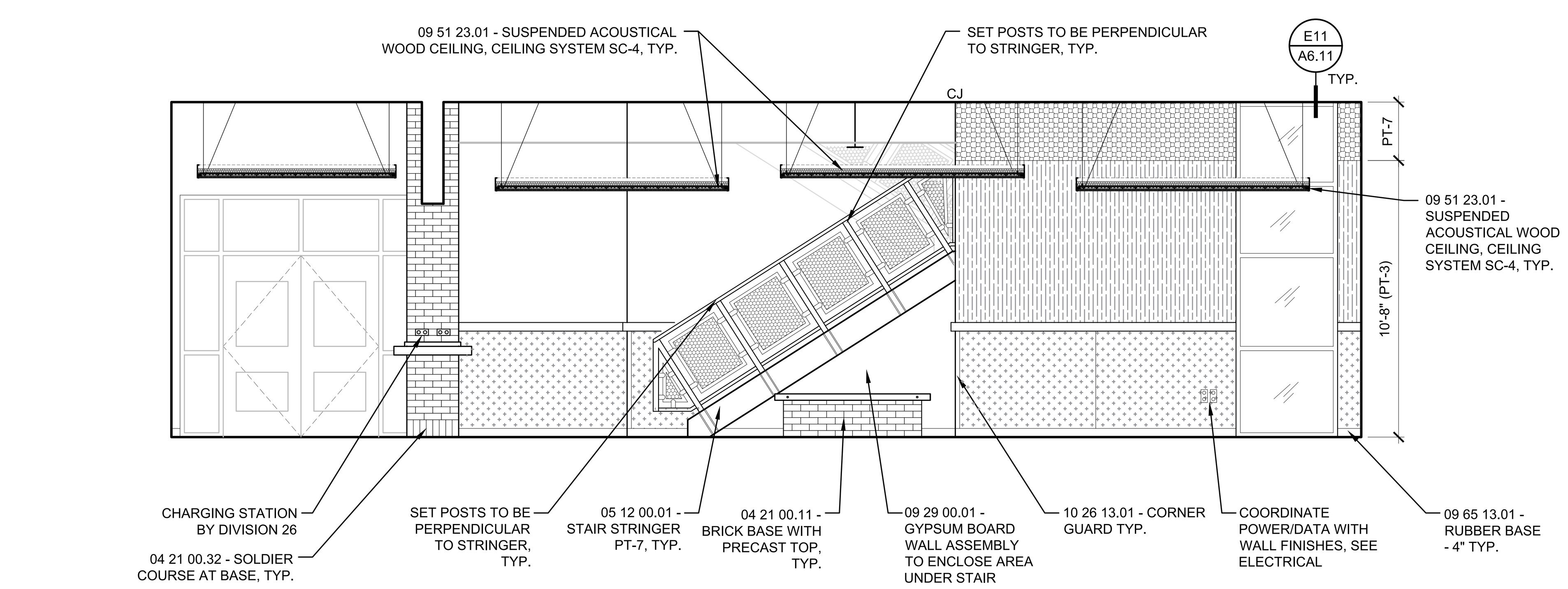
CORRIDOR CR-4



E1 CORRIDOR CR-4

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

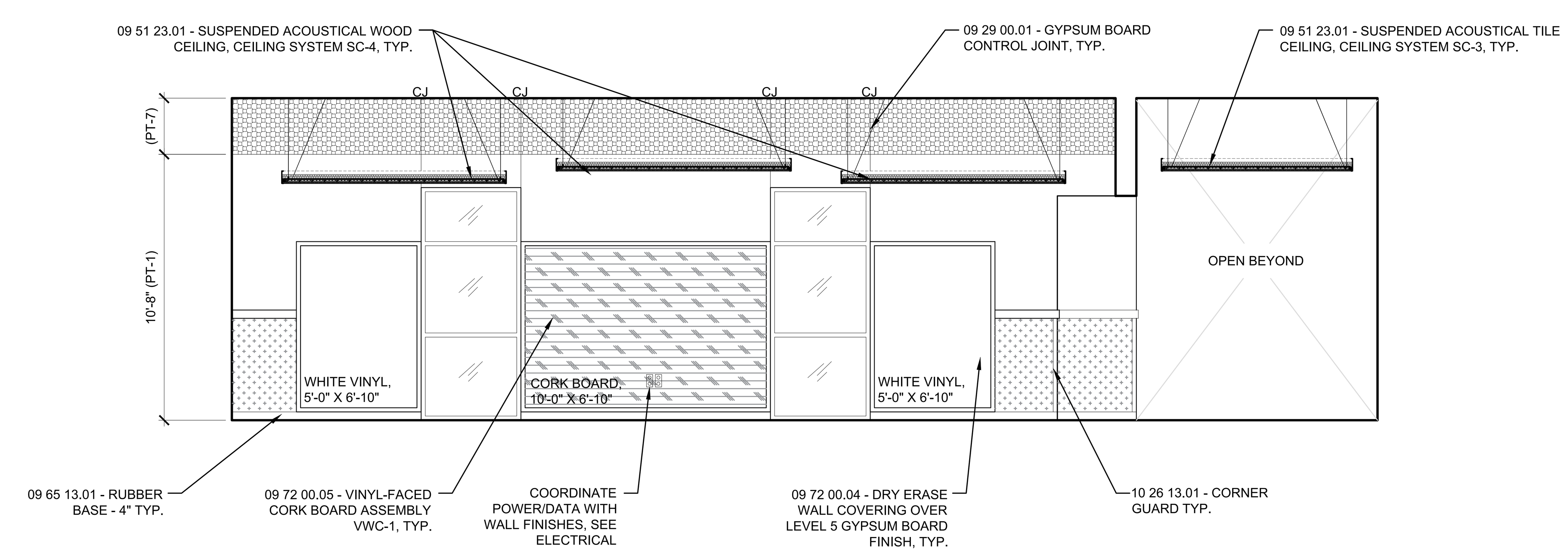
CORRIDOR CR-4



C1 STUDENT COLLABORATE

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

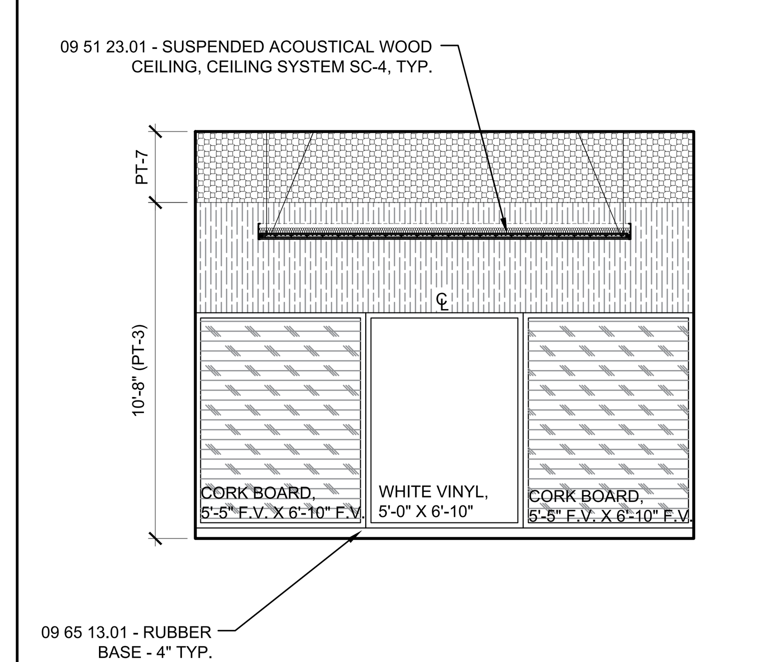
ROOM 115, 148



C6 STUDENT COLLABORATE

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

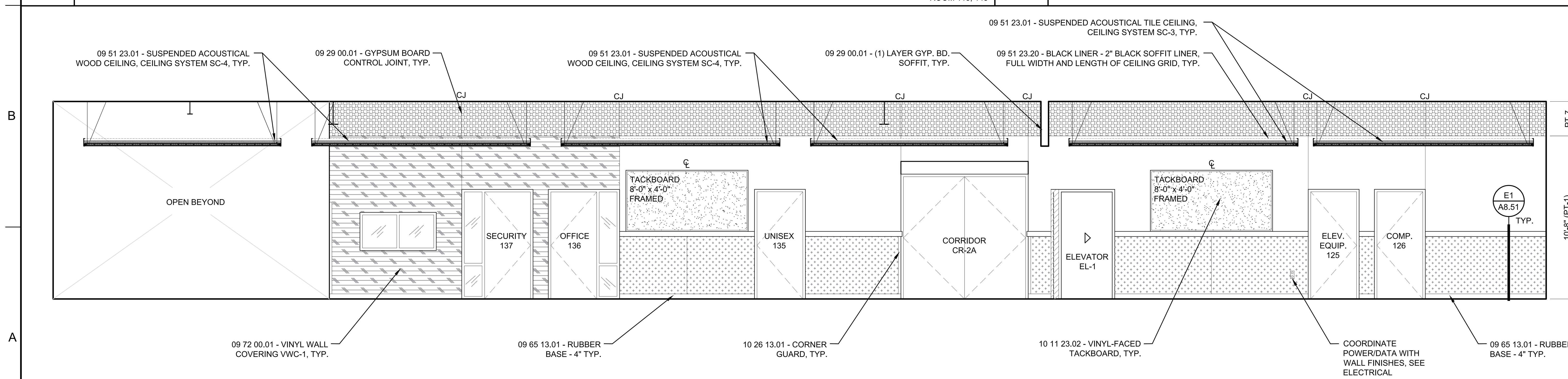
ROOM 115, 148



C11 STUDENT COLLABORATE

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

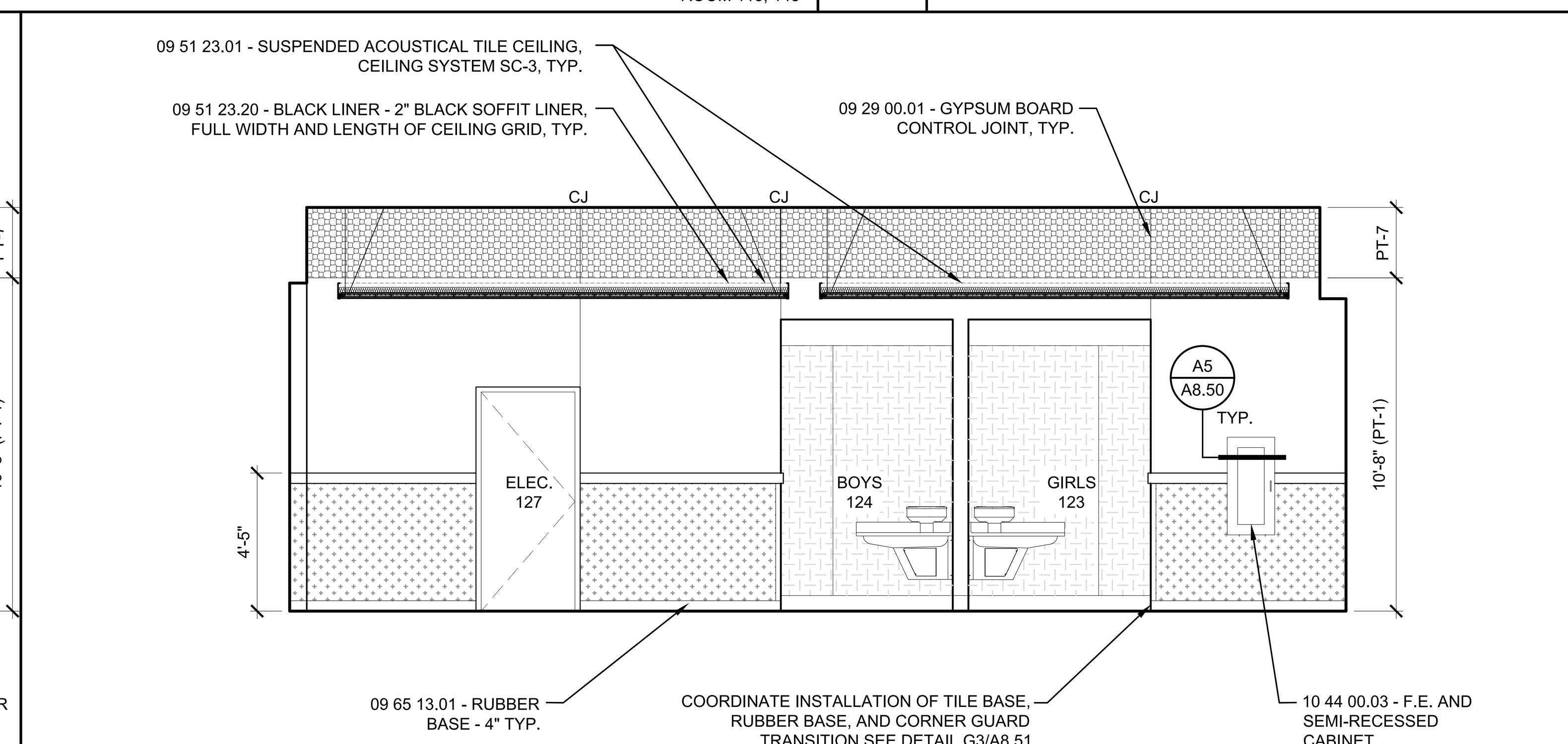
ROOM 115, 148



A1 CORRIDOR CR-3

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

CORRIDOR CR-3



A9 CORRIDOR CR-3

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

CORRIDOR CR-3

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12/18/2023

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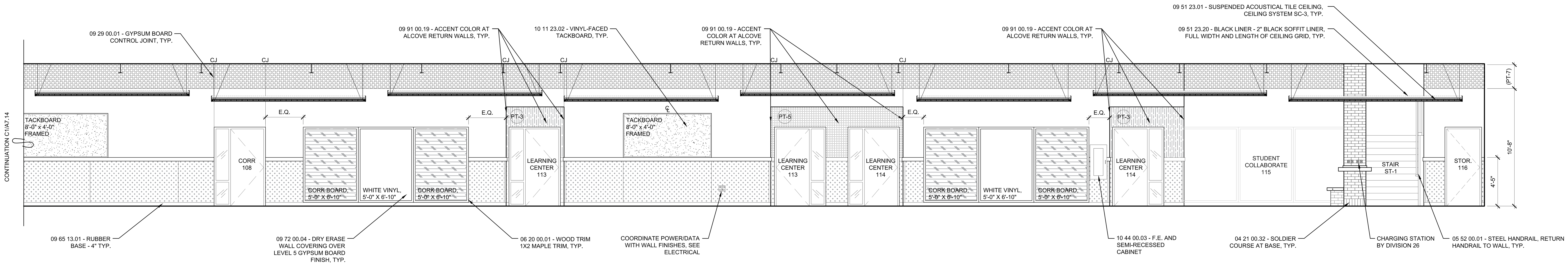
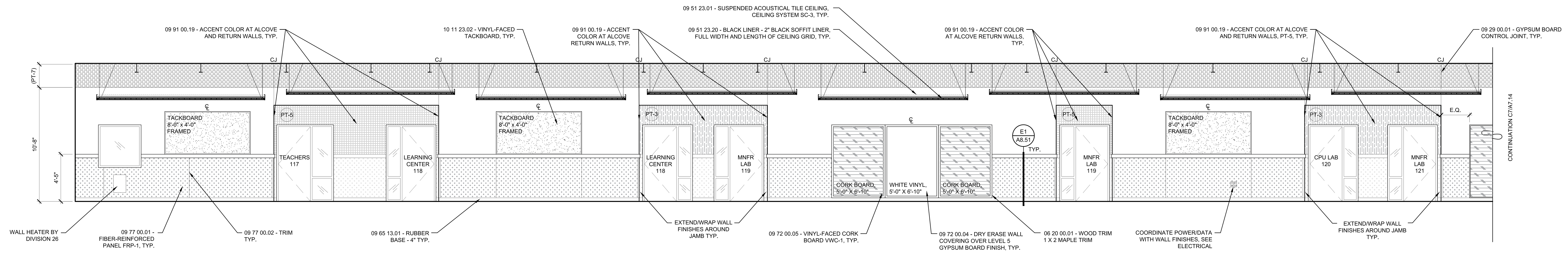
SHEET
A7.13



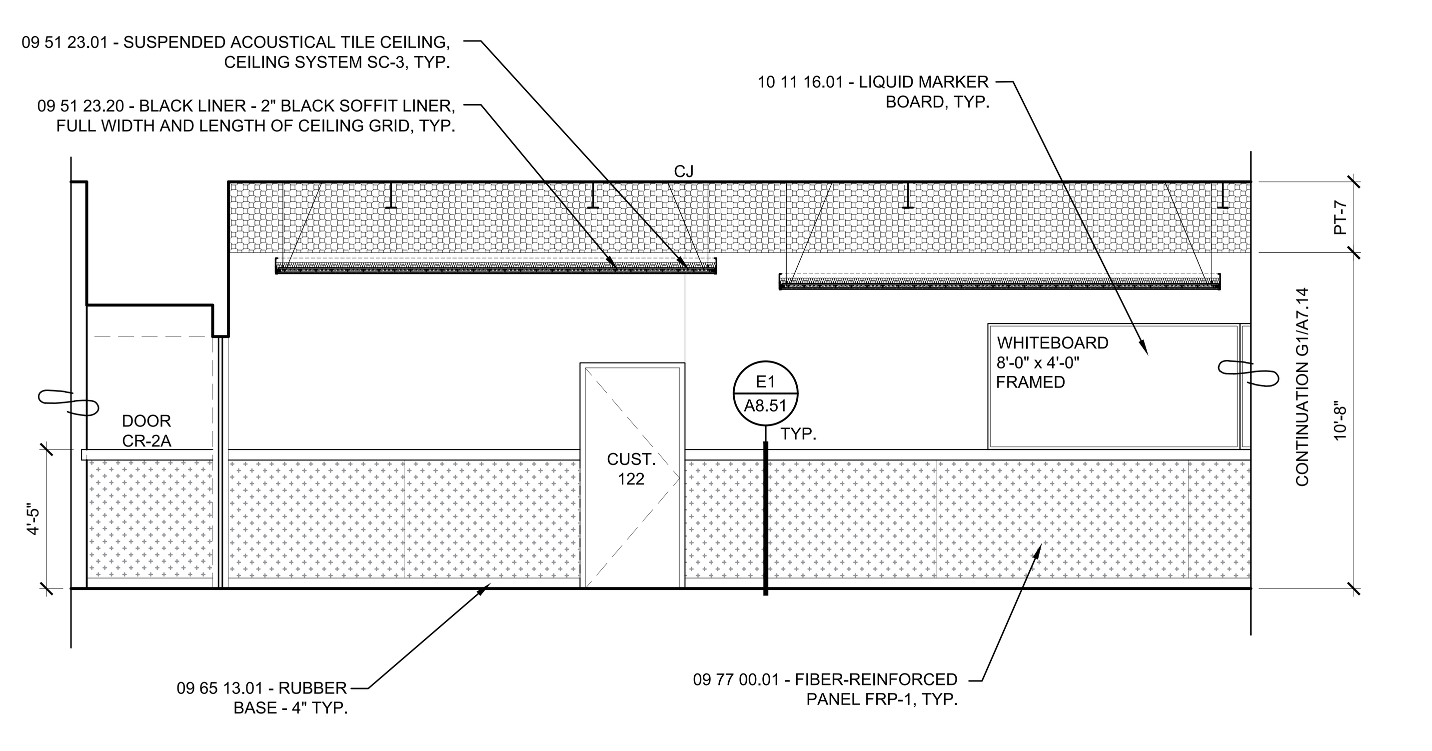
G1 CORRIDOR CR-2

SCALE: 1/4" = 1'-0" — CORRIDOR CR-2



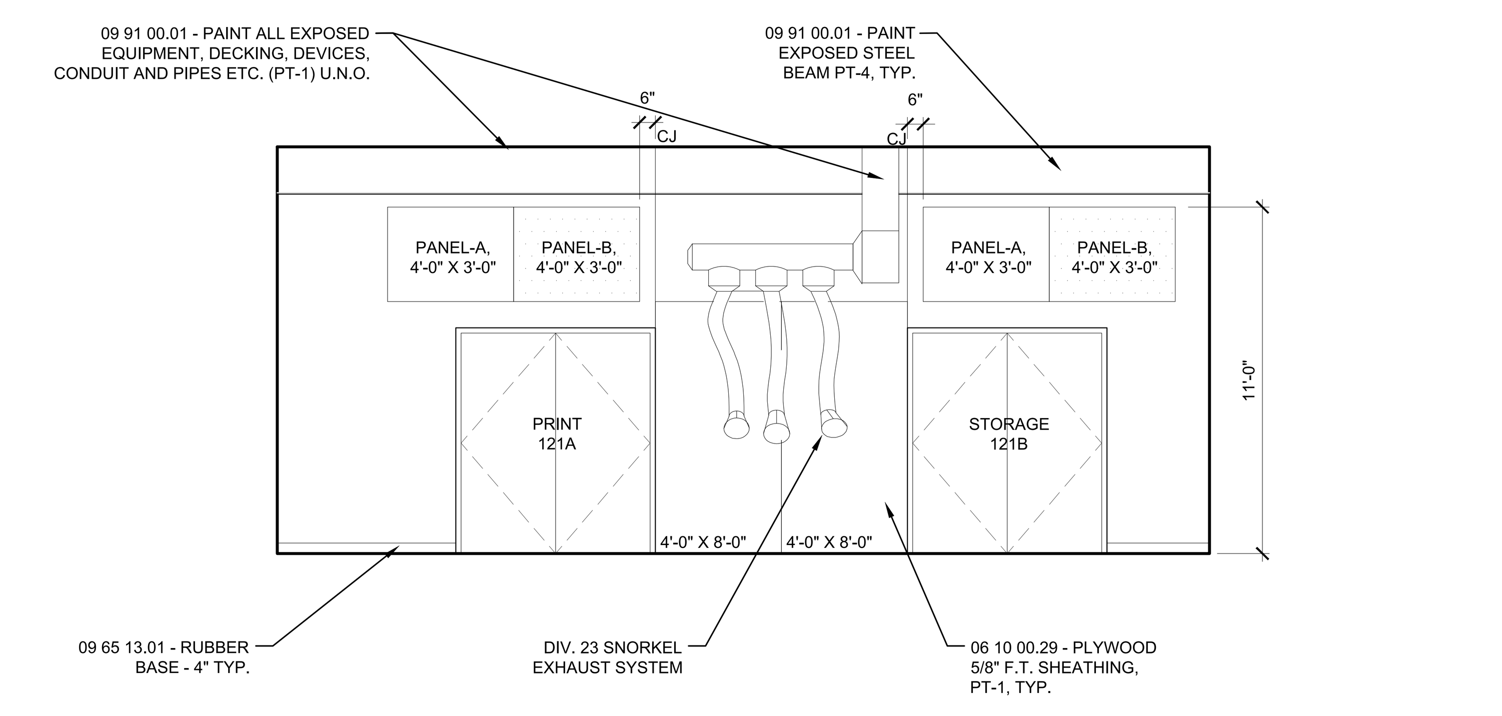
E1 CORRIDOR CR-2

SCALE: 1/4" = 1'-0" — CORRIDOR CR-2



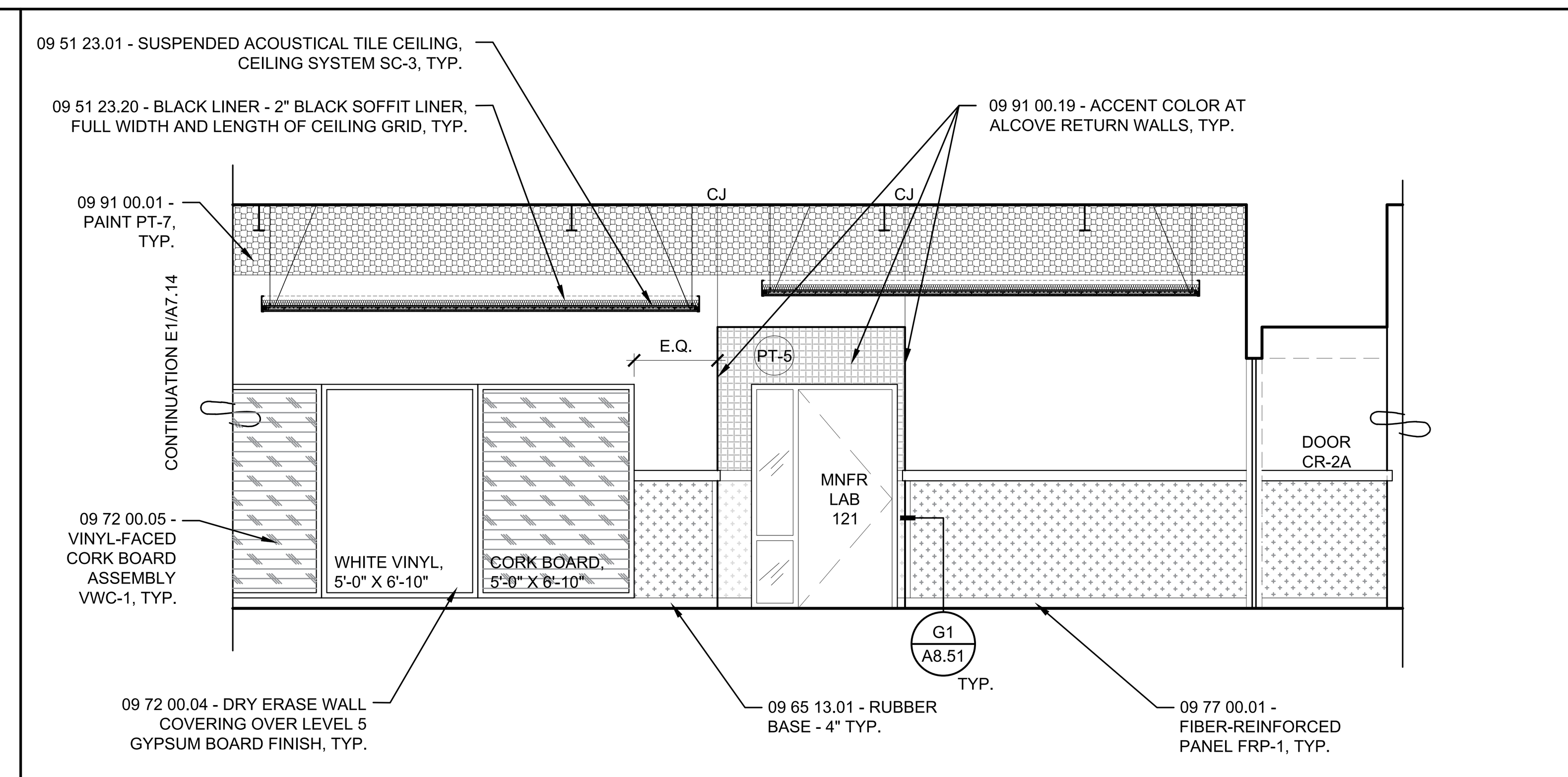
C1 CORRIDOR CR-2

SCALE: 1/4" = 1'-0" — CORRIDOR CR-2



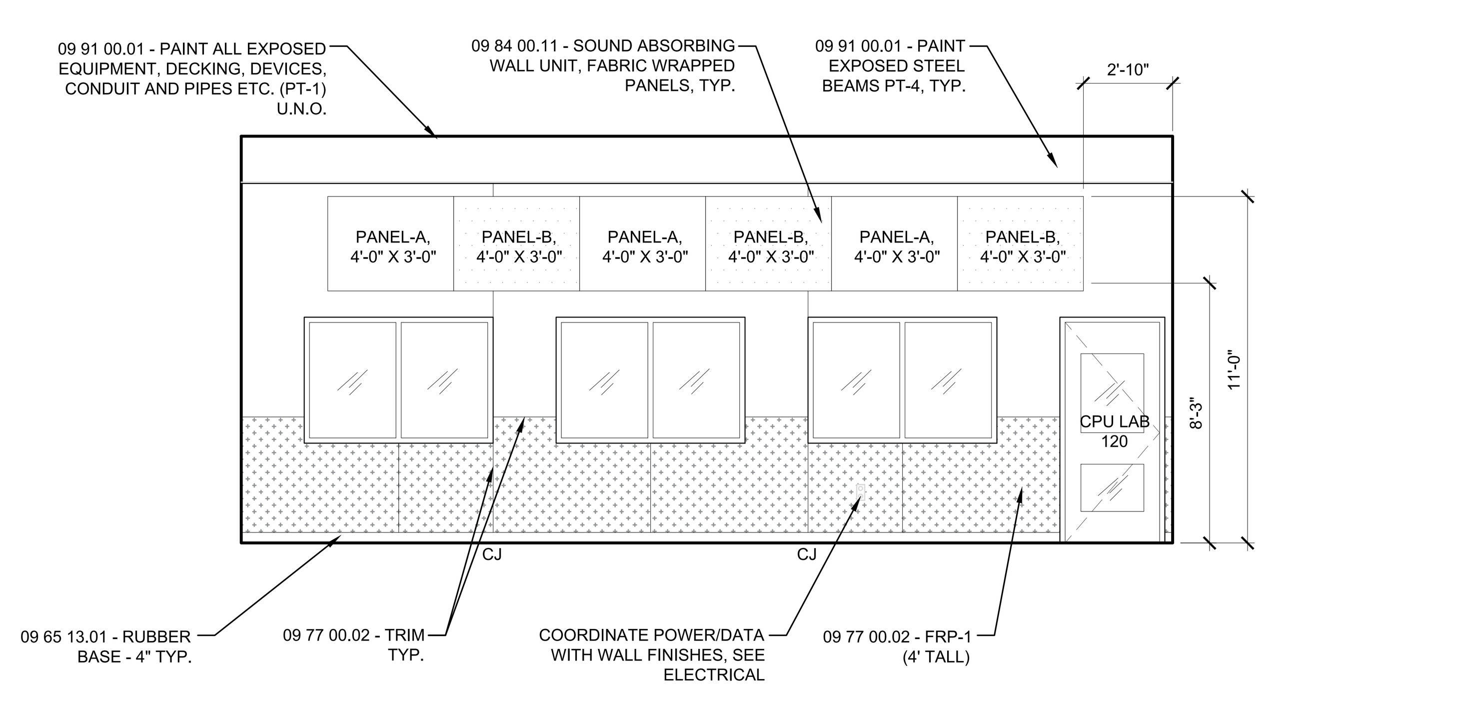
C5 MANUFACTURE LAB

SCALE: 1/4" = 1'-0" — ROOM 121



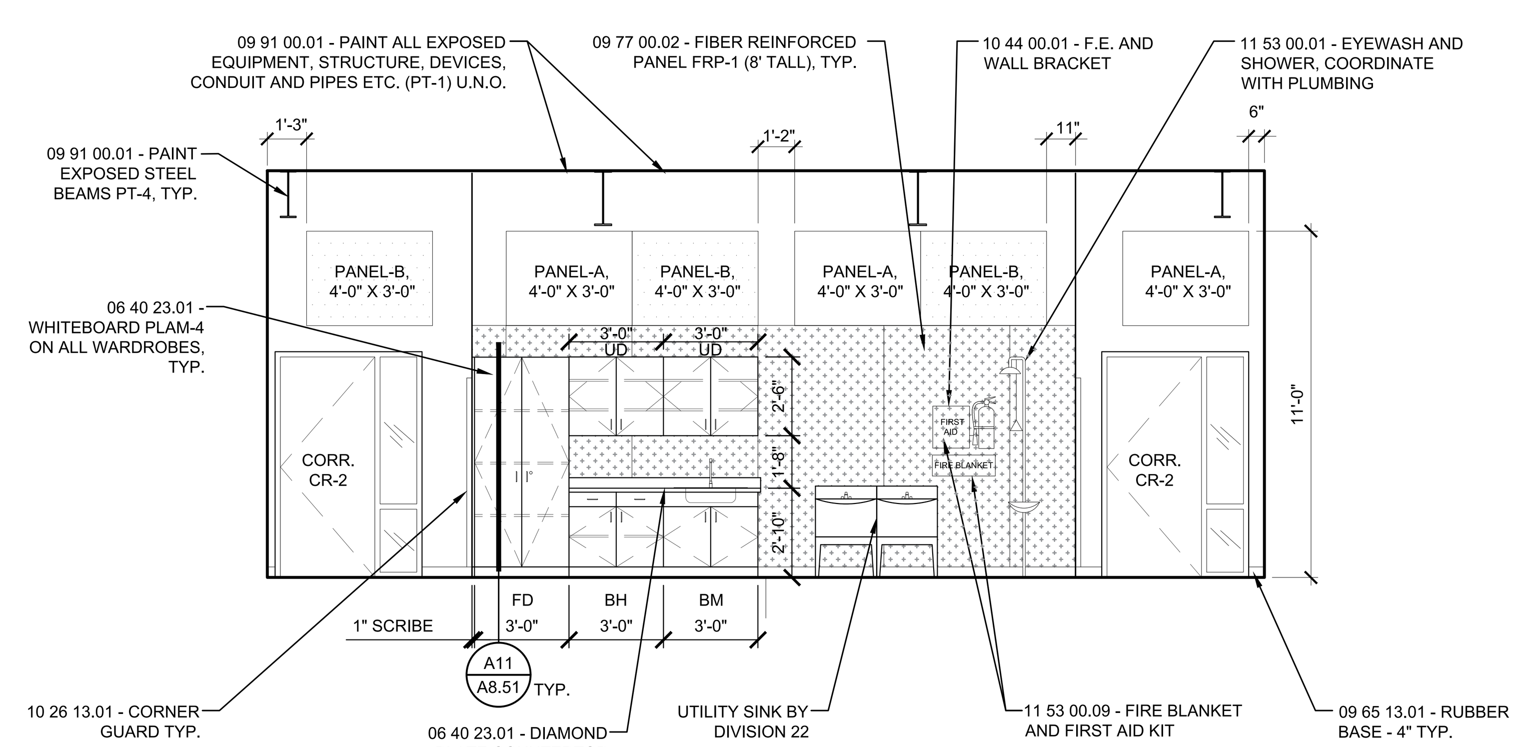
C7 CORRIDOR CR-2

SCALE: 1/4" = 1'-0" — CORRIDOR CR-2



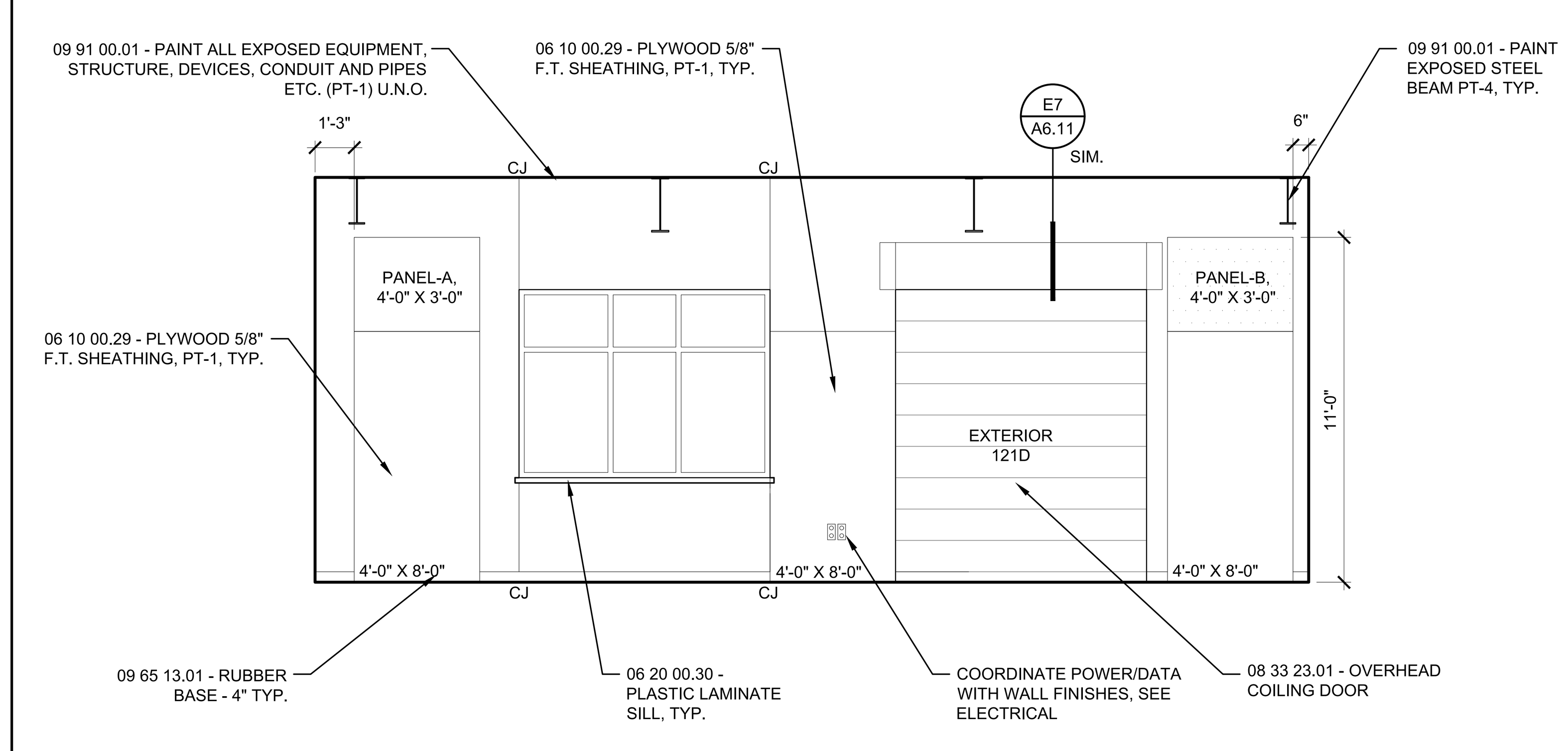
A1 MANUFACTURE LAB

SCALE: 1/4" = 1'-0" — ROOM 121



A5 MANUFACTURE LAB

SCALE: 1/4" = 1'-0" — ROOM 121



A9 MANUFACTURE LAB

SCALE: 1/4" = 1'-0" — ROOM 121

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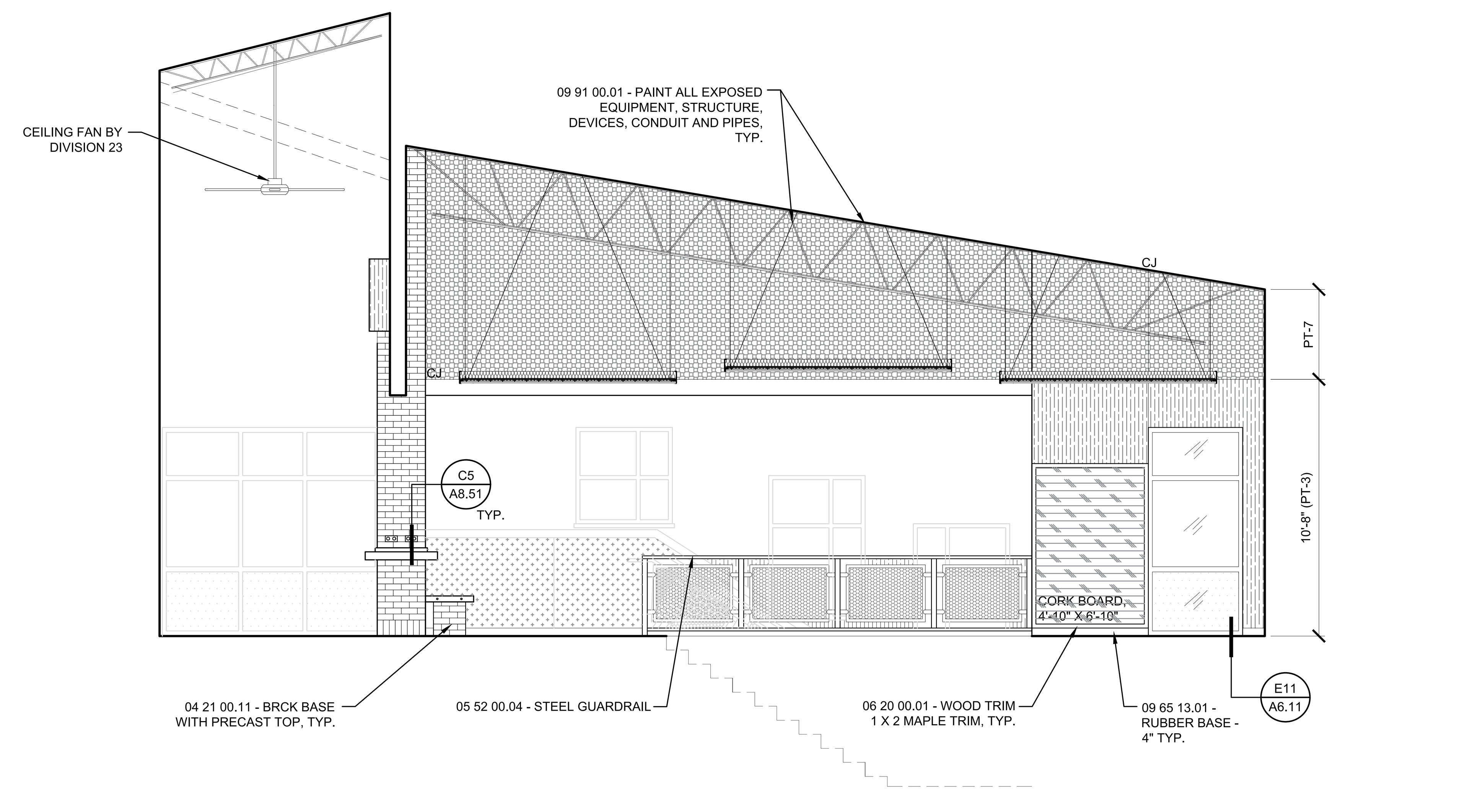
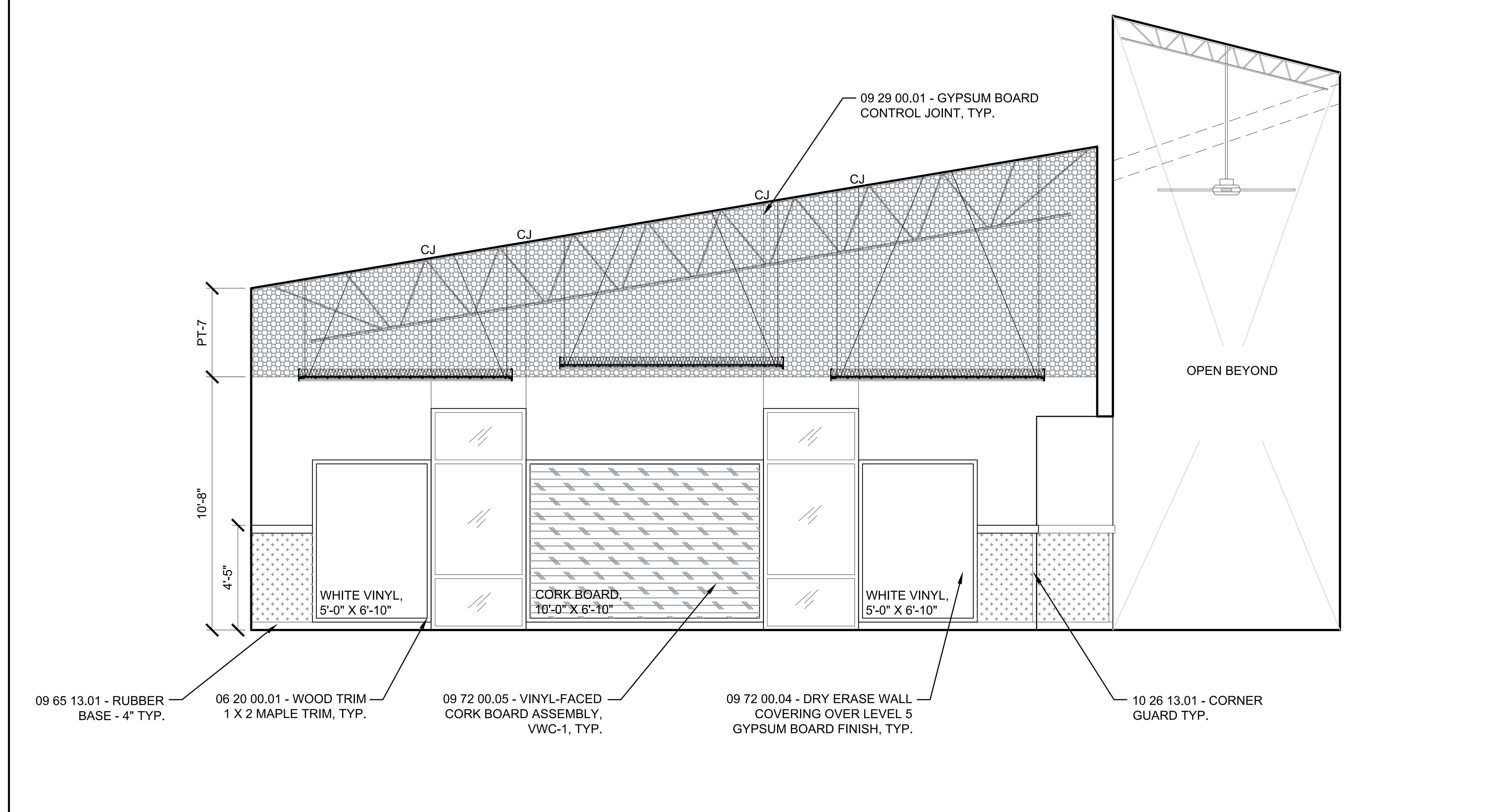
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

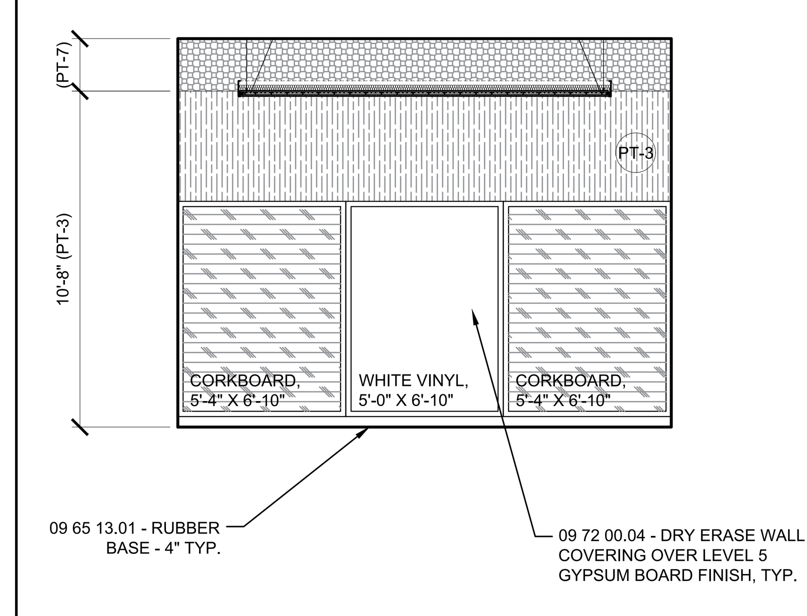
DATE: 12/18/2023
SHEET NAME: INTERIOR ELEVATIONS
SHEET: A7.14



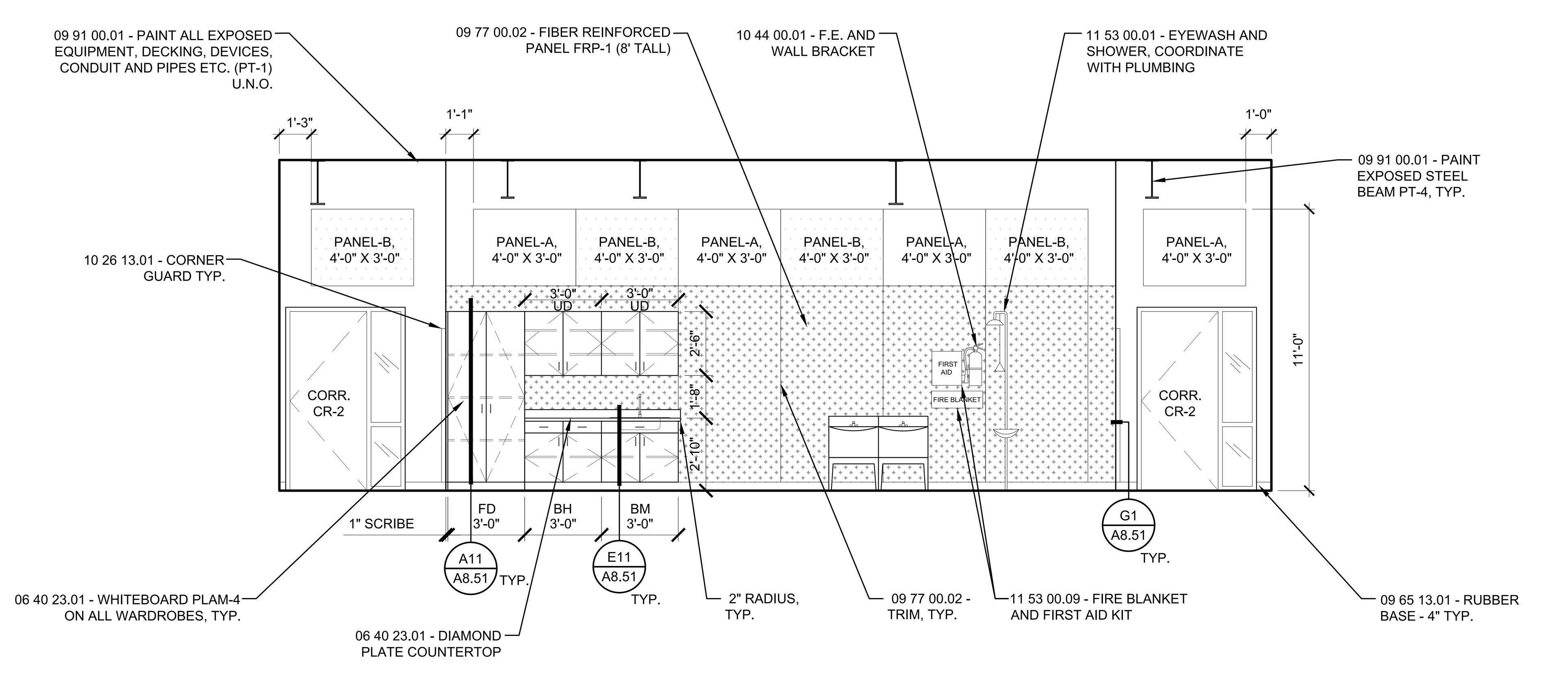
F1 STUDENT COLLABORATE
SCALE: 1/4" = 1'-0" ROOM 212, 221



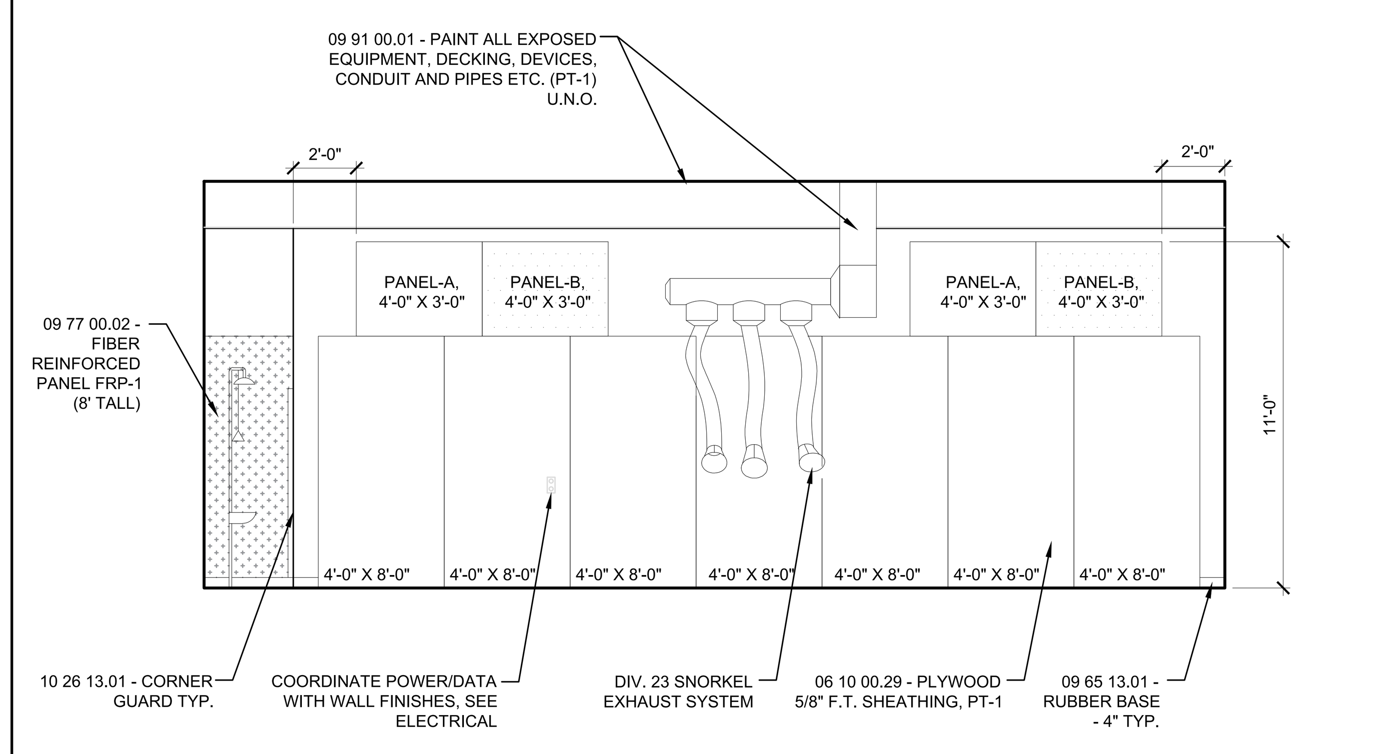
F6 STUDENT COLLABORATE
SCALE: 1/4" = 1'-0" ROOM 212, 221



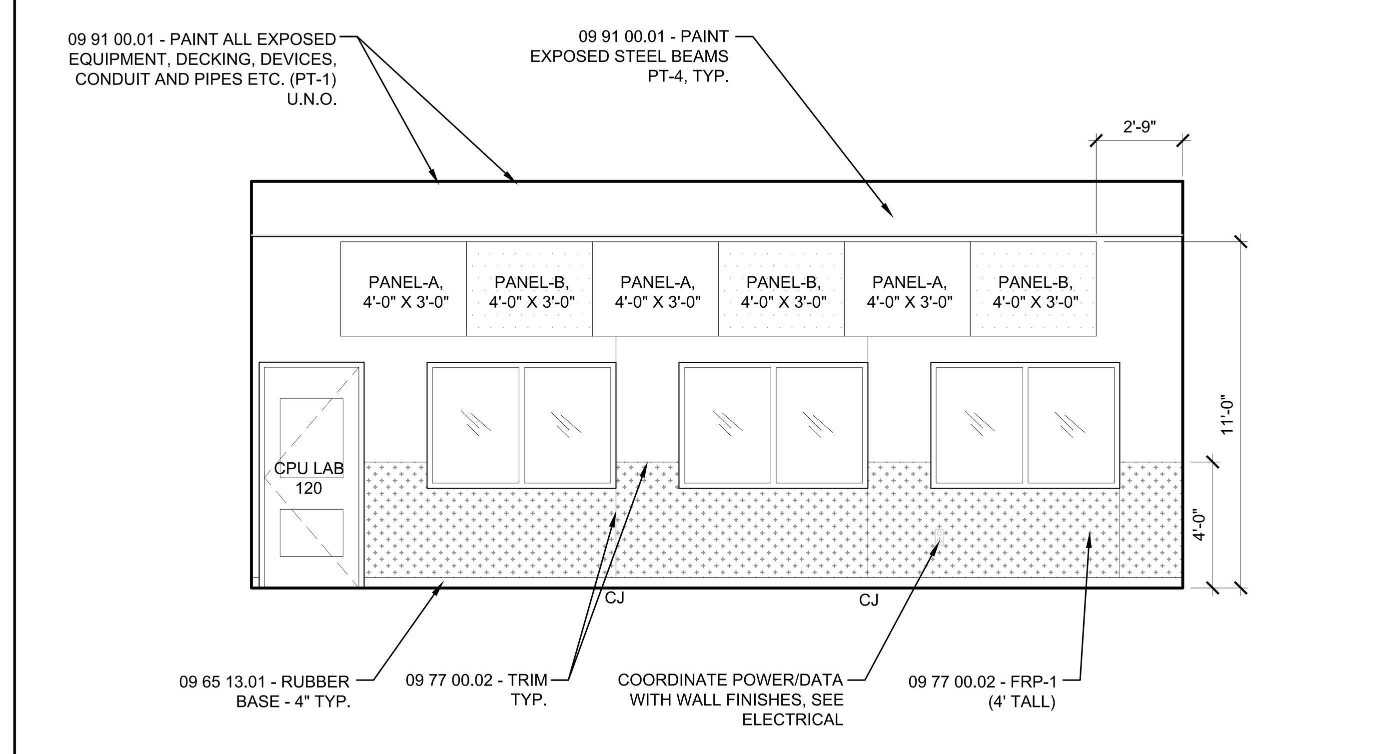
F11 STUDENT COLLABORATE
SCALE: 1/4" = 1'-0" ROOM 212, 221



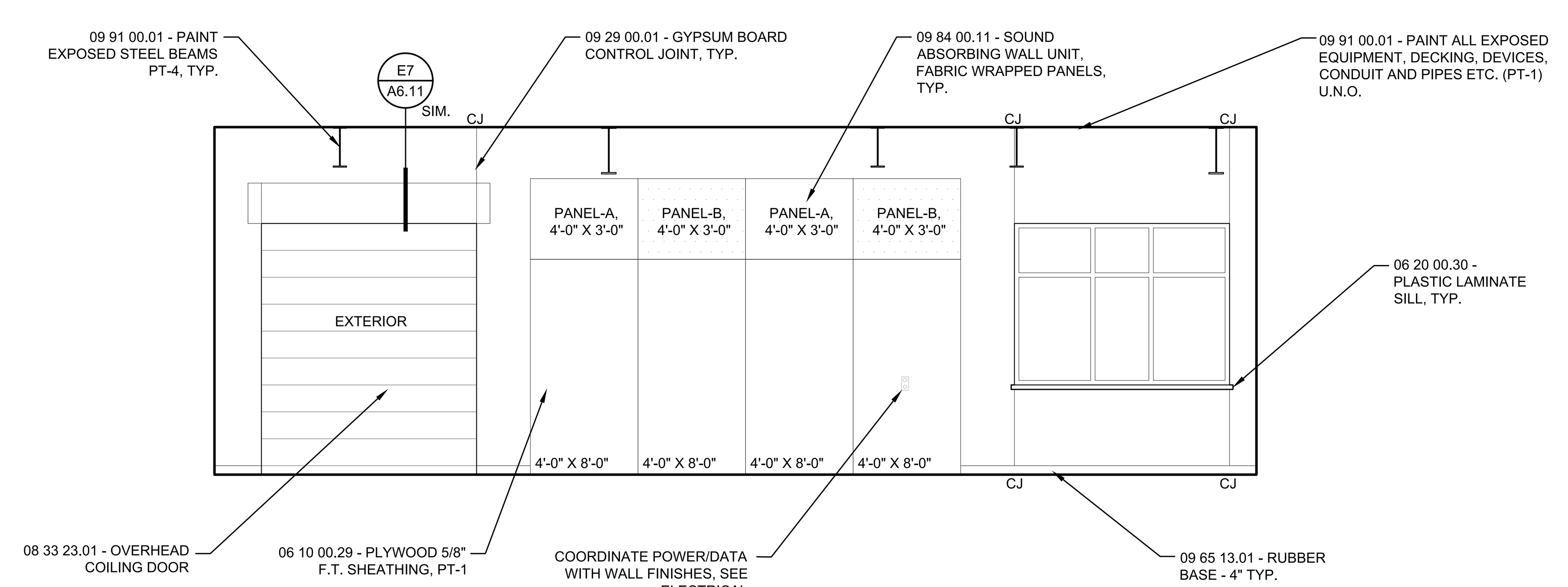
C1 MANUFACTURE LAB
SCALE: 1/4" = 1'-0" ROOM 119



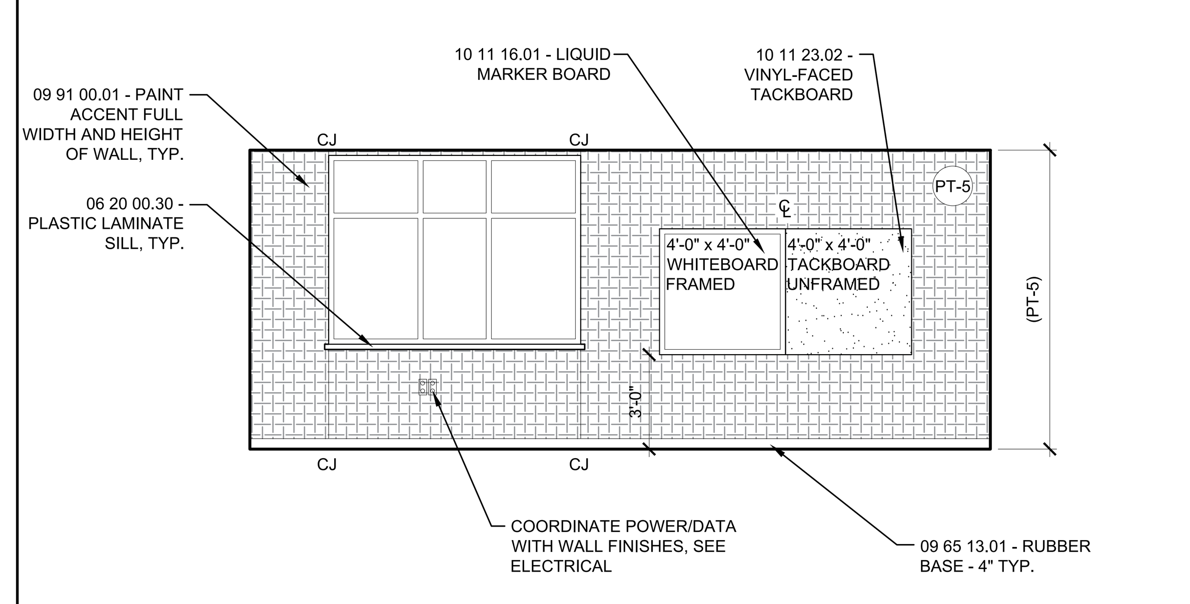
C6 MANUFACTURE LAB
SCALE: 1/4" = 1'-0" ROOM 119



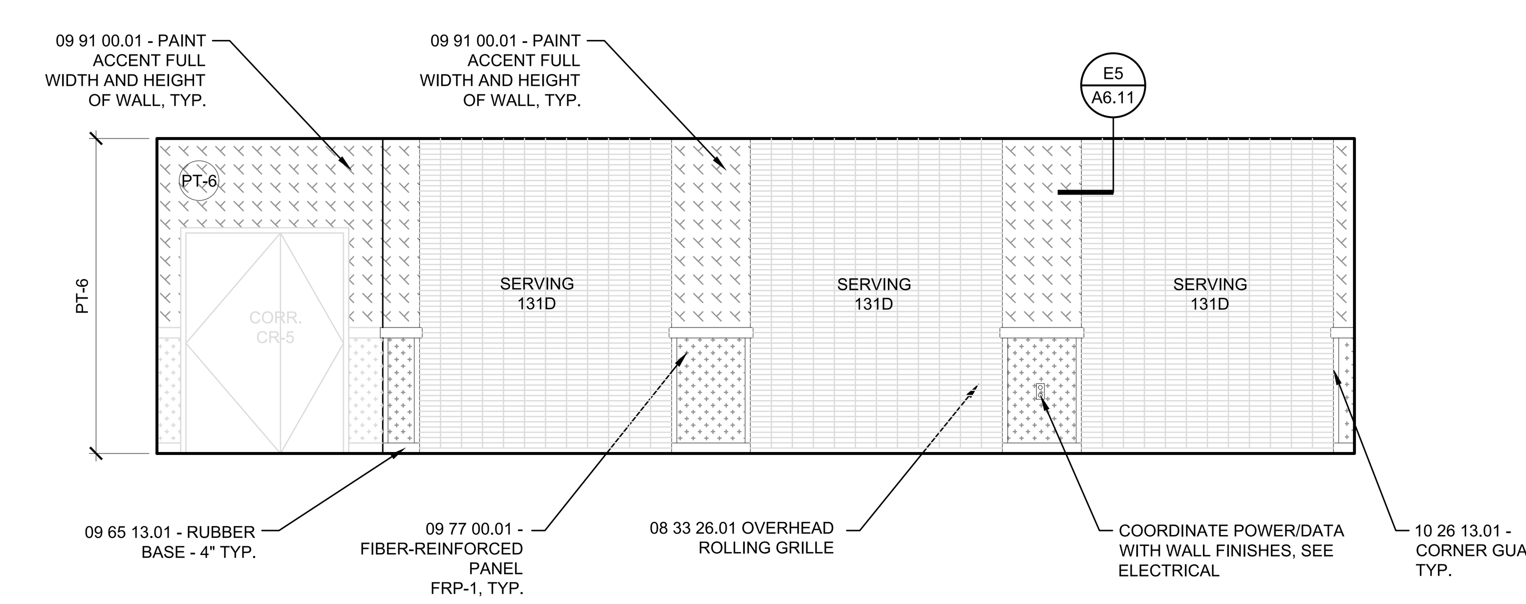
C9 MANUFACTURE LAB
SCALE: 1/4" = 1'-0" ROOM 119



A1 MANUFACTURE LAB
SCALE: 1/4" = 1'-0" ROOM 119



A6 CPU LAB
SCALE: 1/4" = 1'-0" ROOM 120



A9 COMMONS
SCALE: 1/4" = 1'-0" ROOM 134

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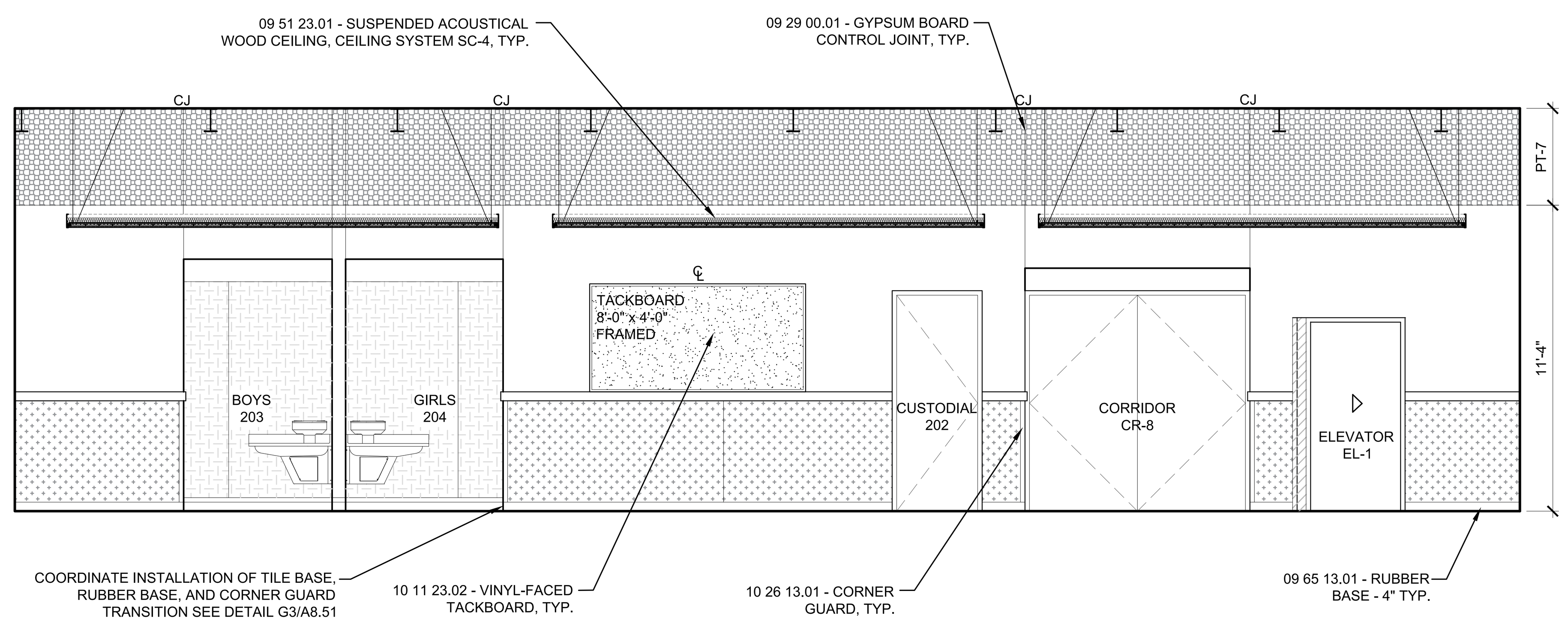
9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

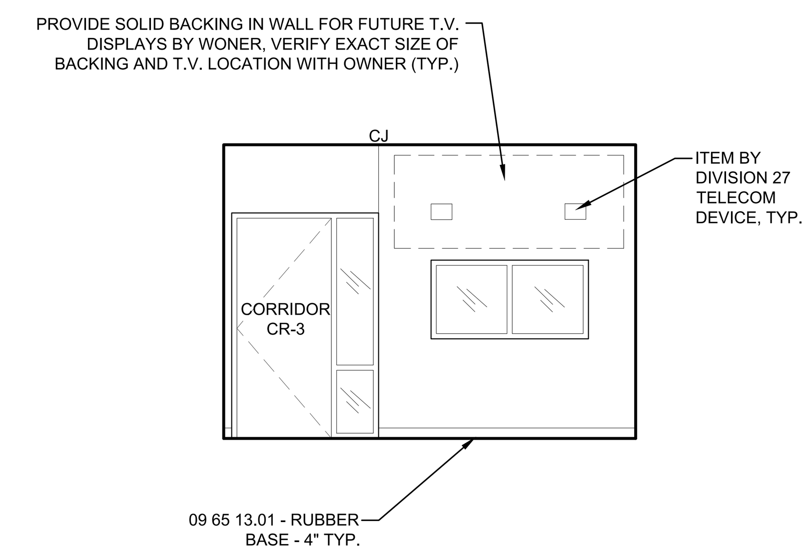
SHEET NAME
INTERIOR ELEVATIONS

SHEET
A7.15



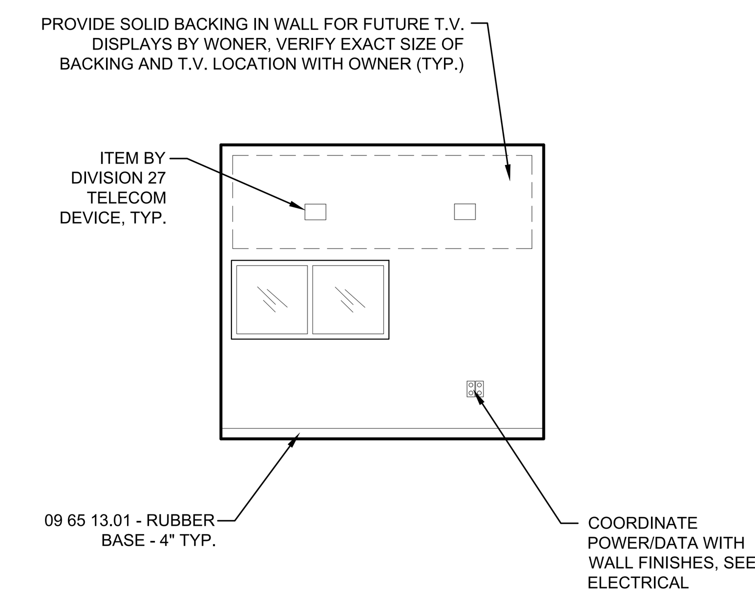
G4 CORRIDOR CR-6

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



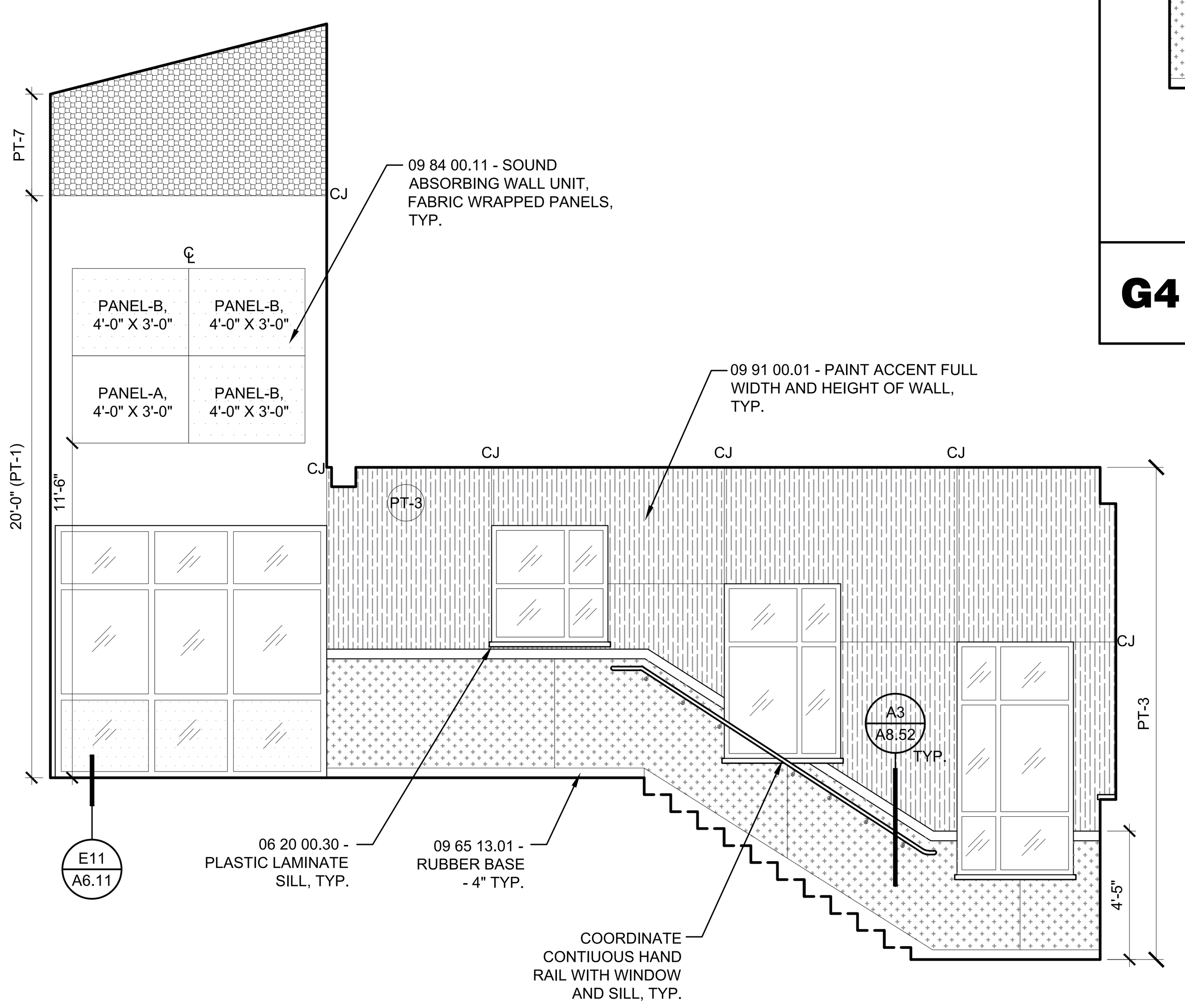
G8 SECURITY 137

SCALE: 1/4" = 1'-0" ROOM 137



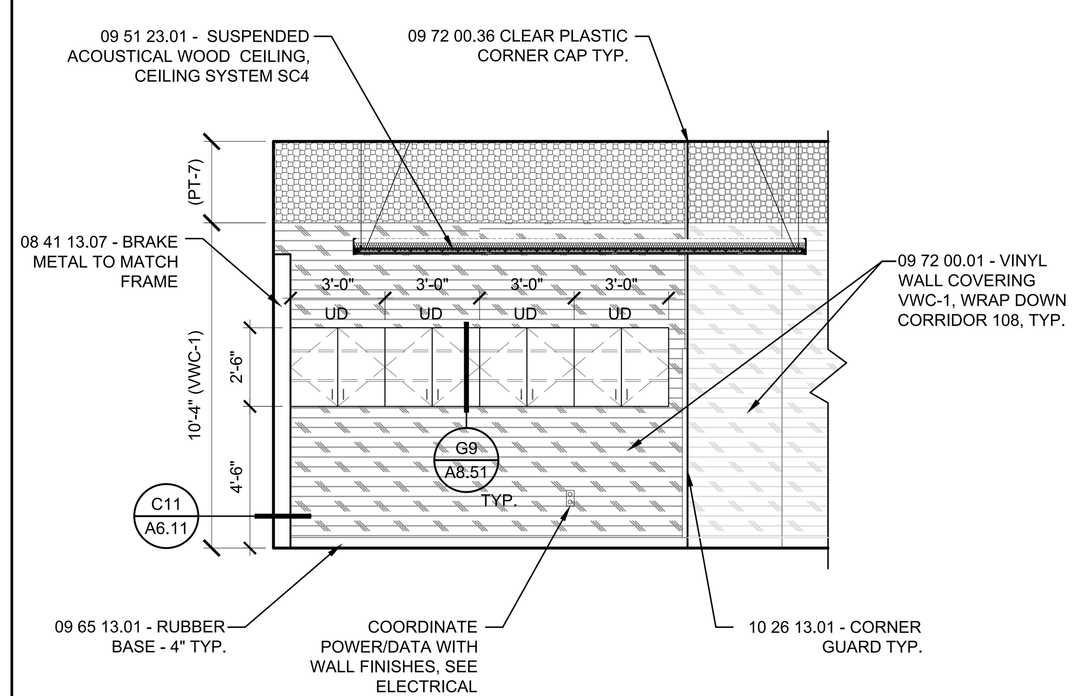
G11 SECURITY 137

SCALE: 1/4" = 1'-0" ROOM 137



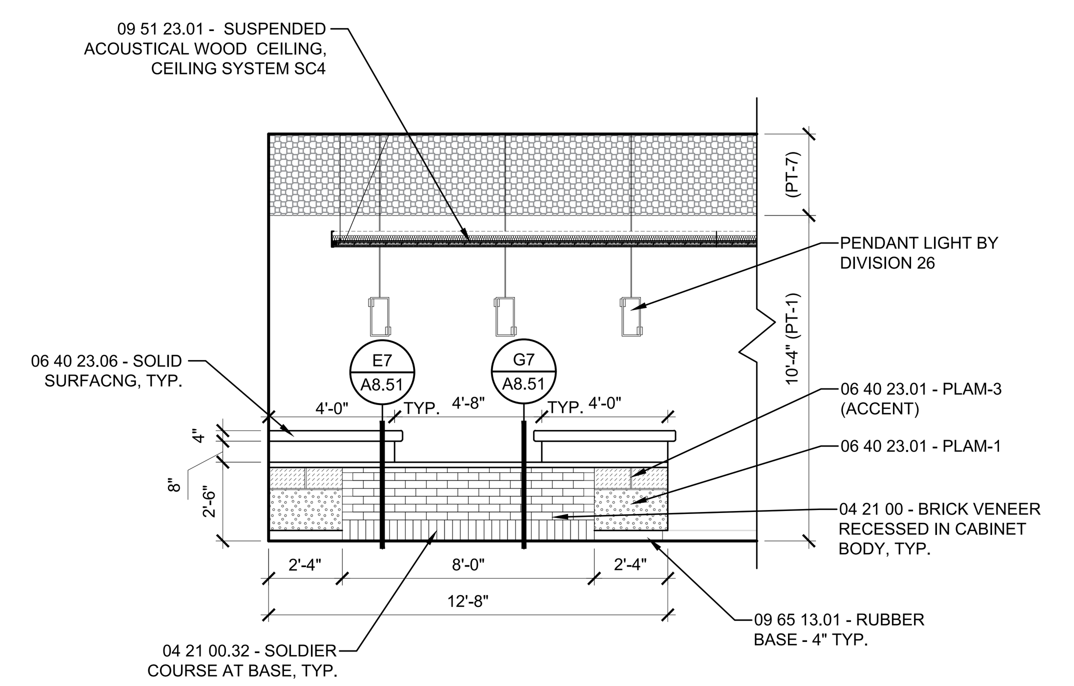
E1 STAIR ST-2

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



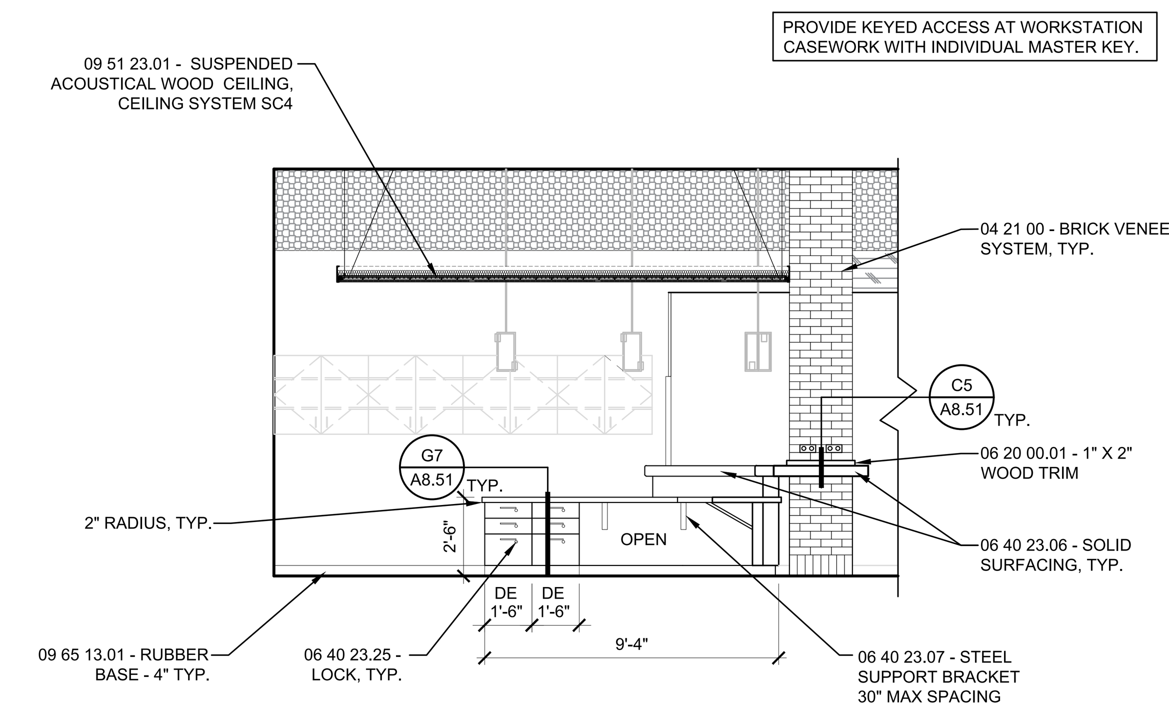
E4 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



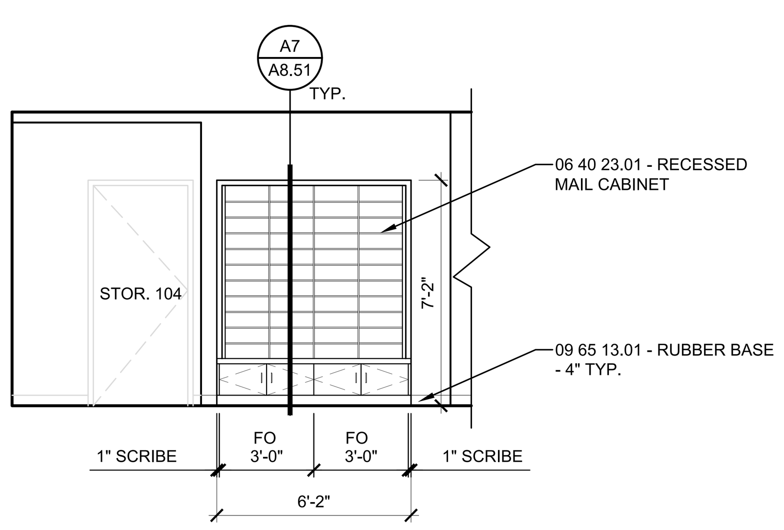
E7 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



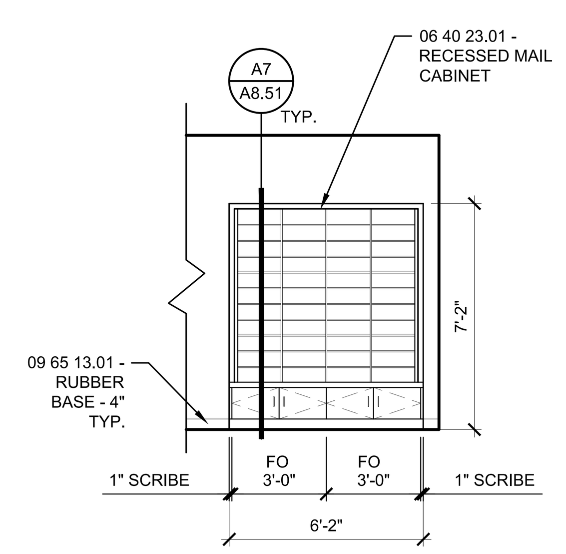
E10 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



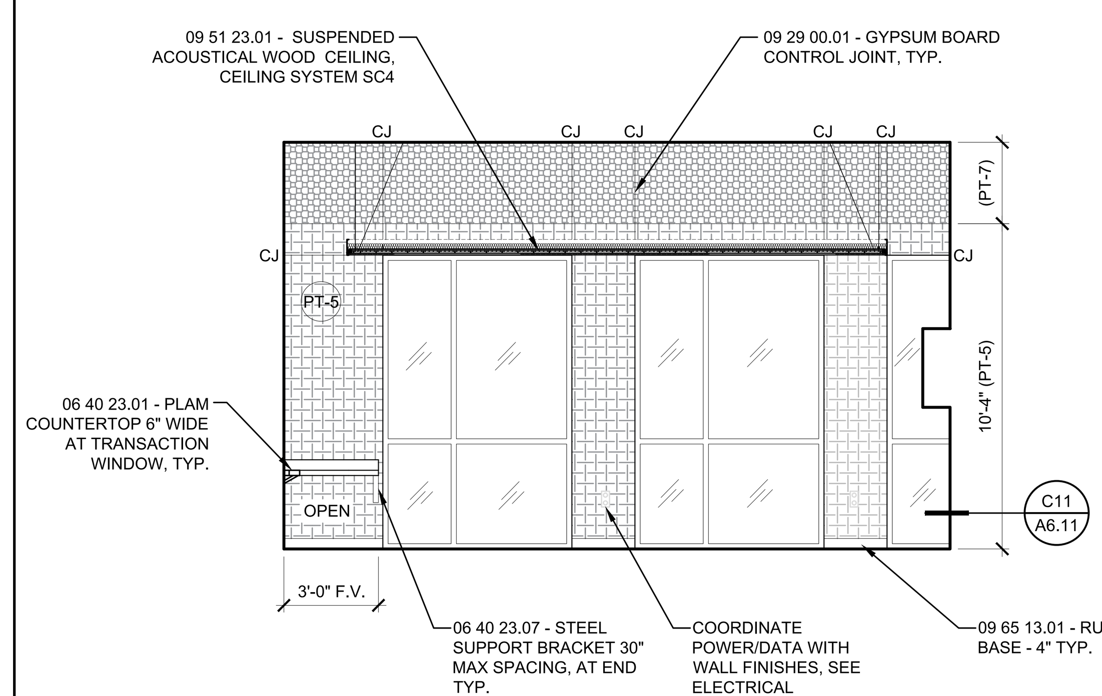
C1 CORRIDOR 108

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



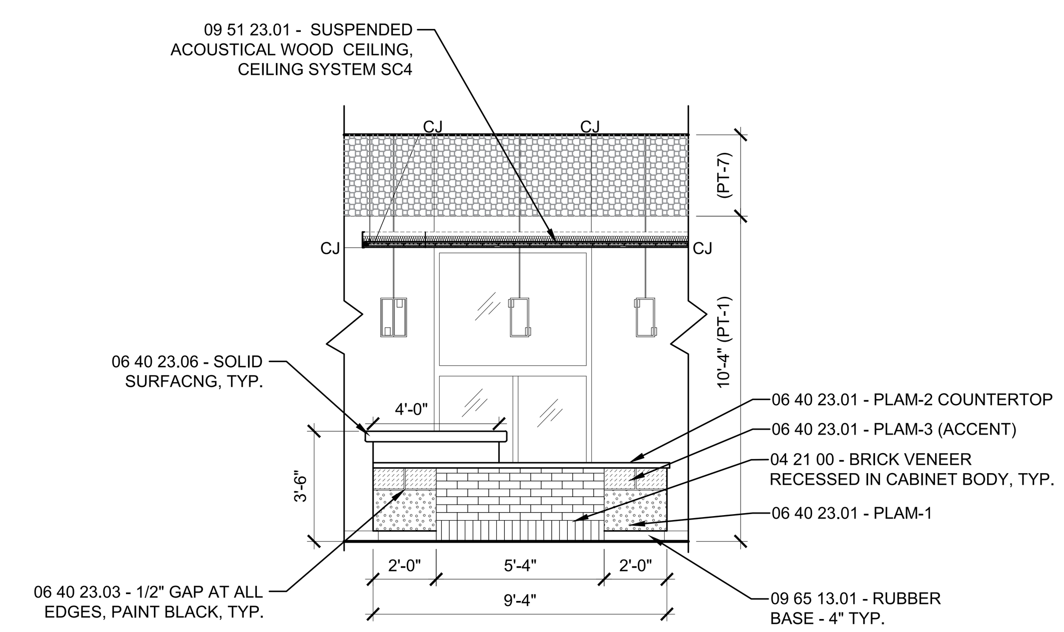
C4 CORRIDOR 108

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



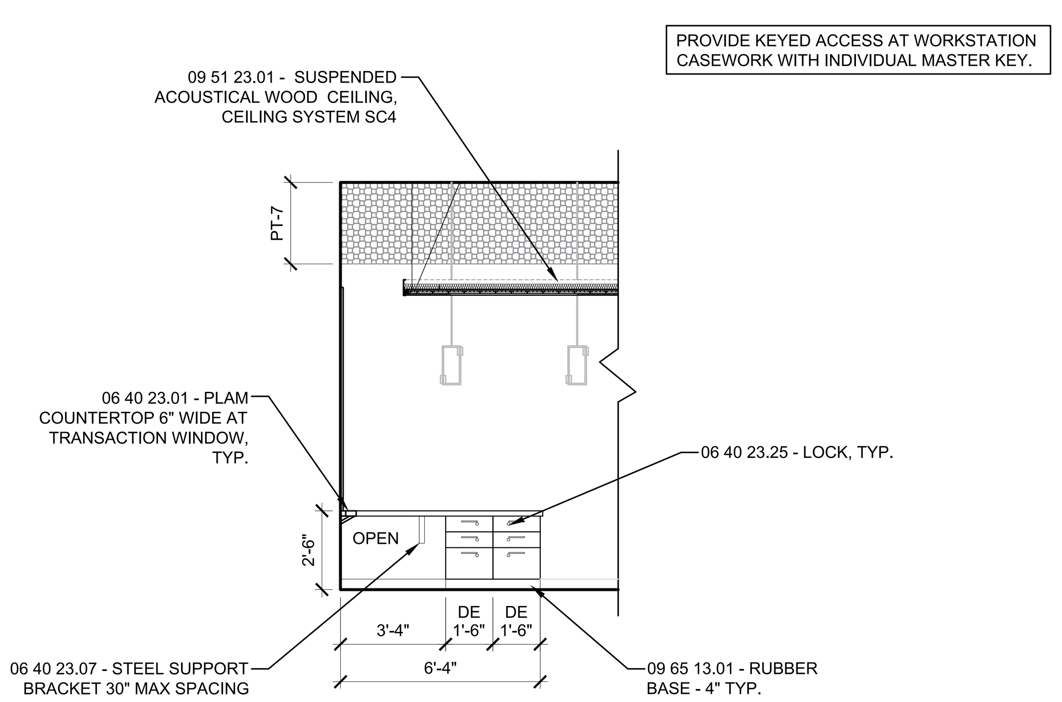
C7 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



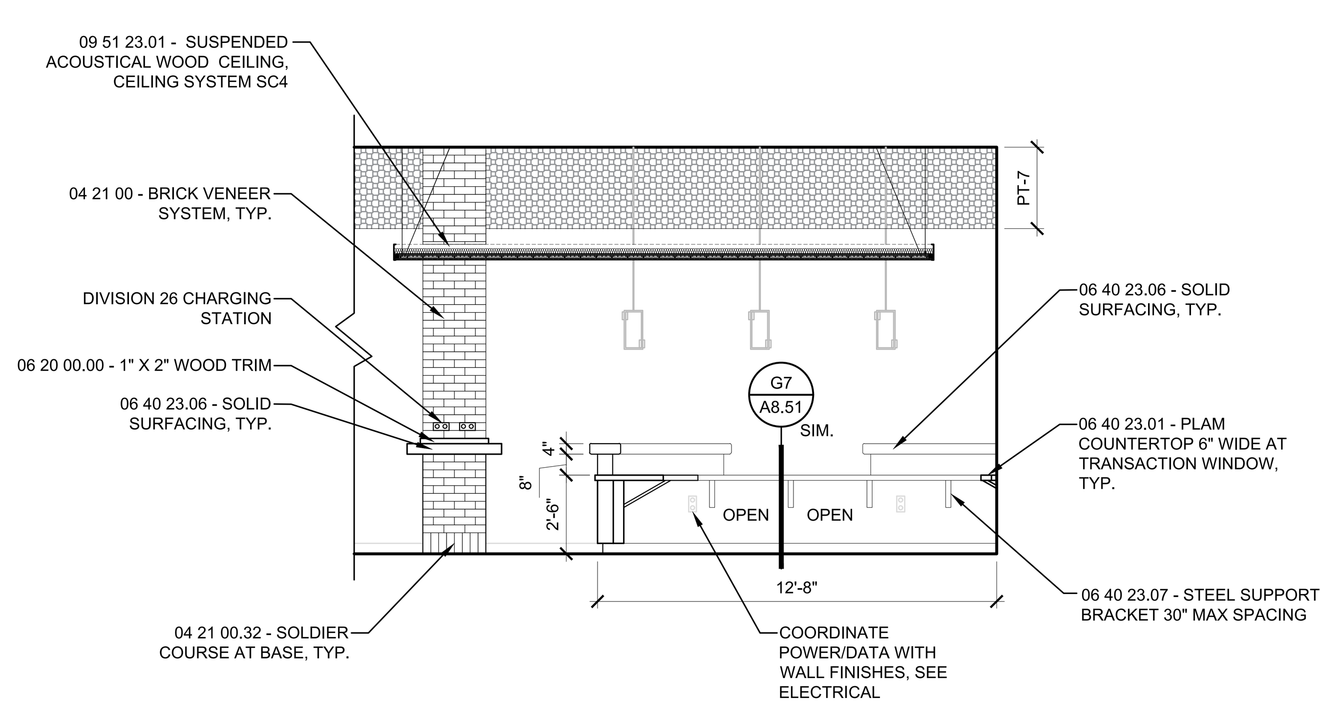
C10 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



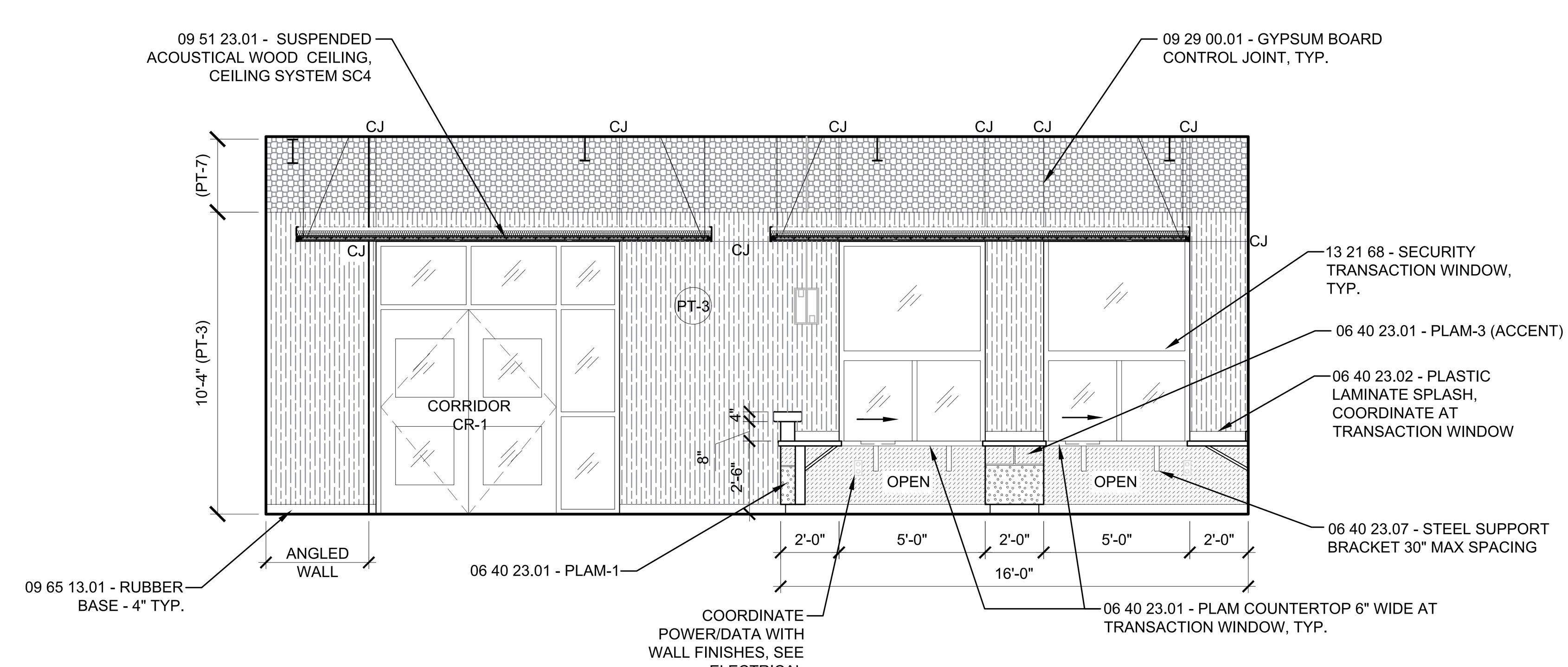
A1 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



A4 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101



A8 RECEPTION

SCALE: 1/4" = 1'-0" SECRETARY 101, WAITING 102

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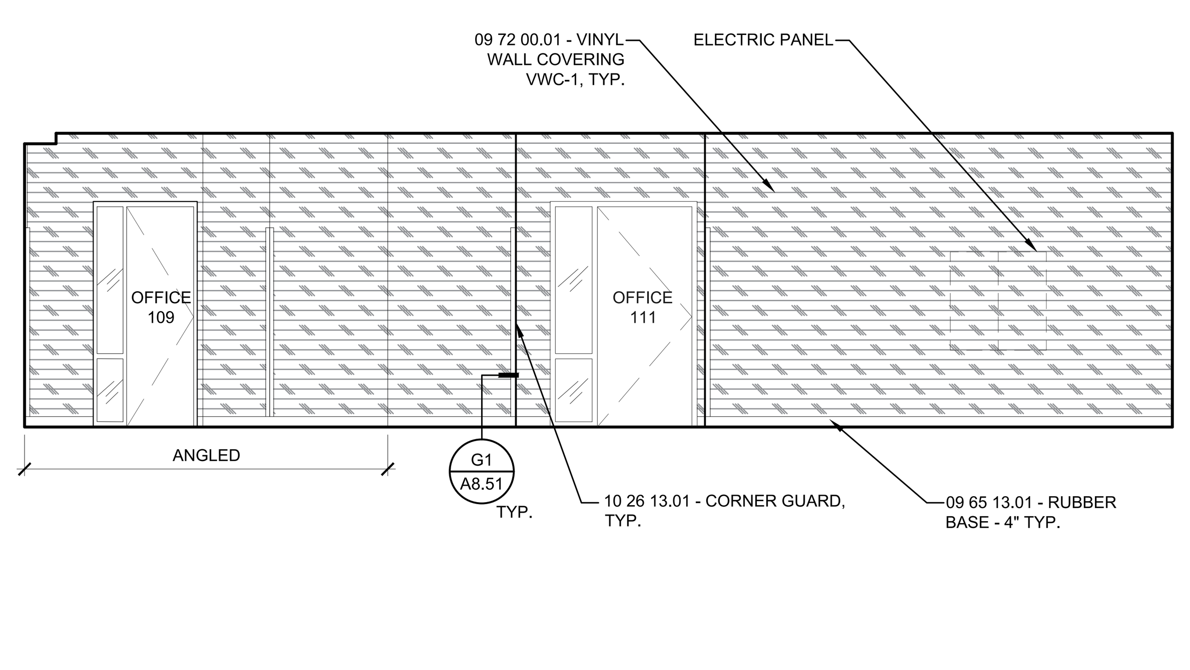
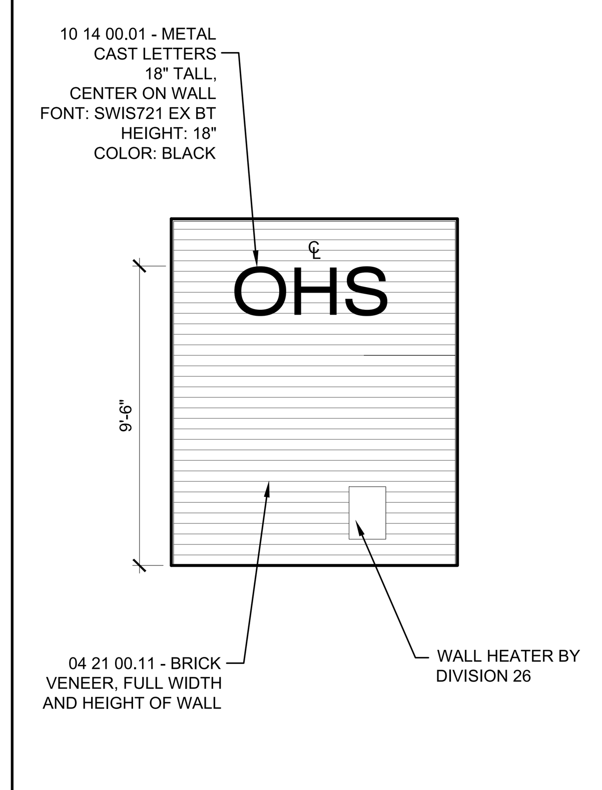
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

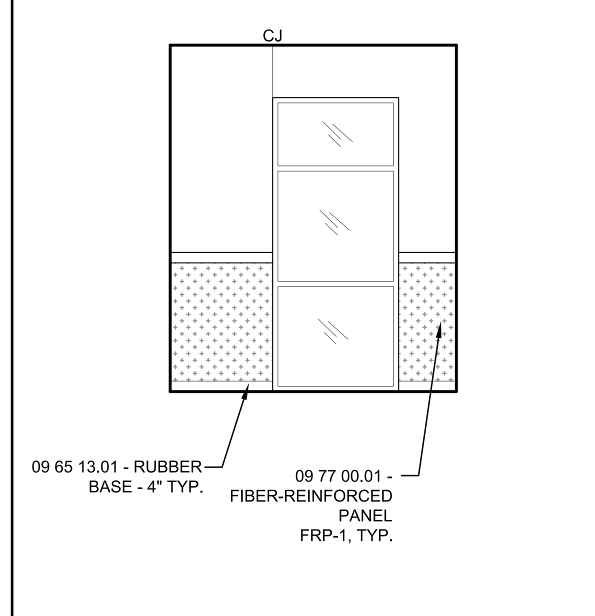
DATE: 12/18/2023
SHEET NAME: INTERIOR ELEVATIONS
SHEET: A7.16



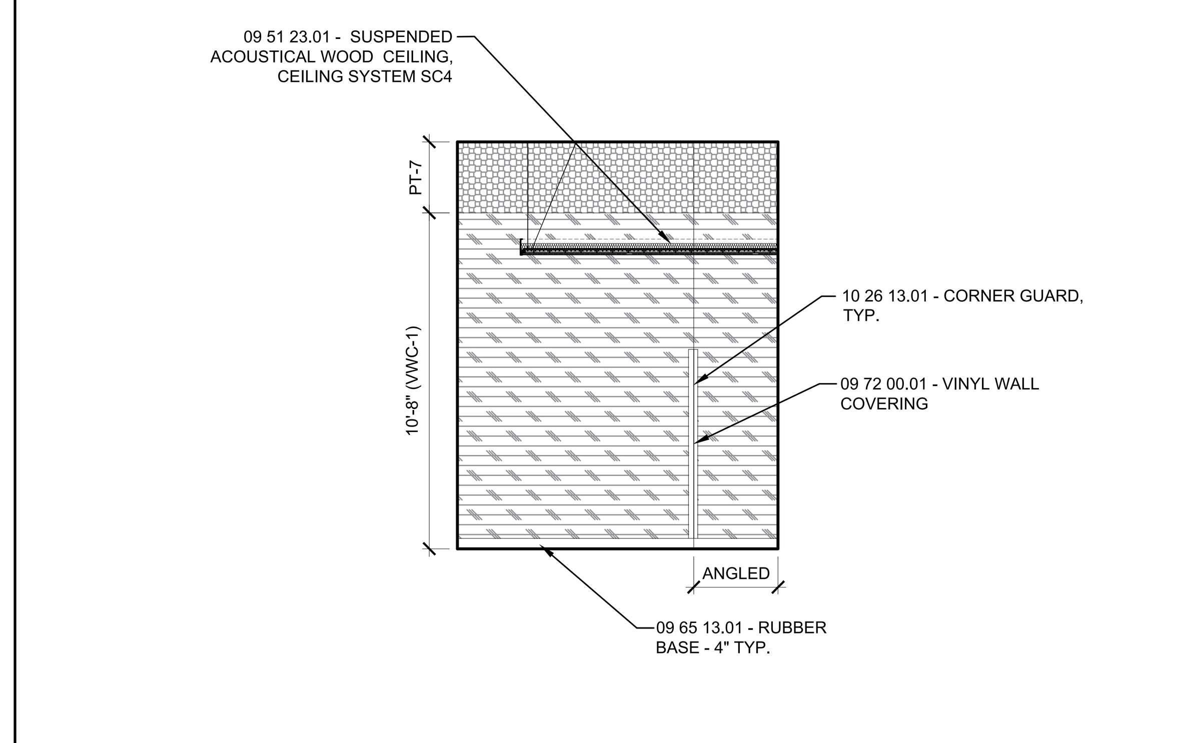
G1 CORRIDOR 108
SCALE: 1/4" = 1'-0" CORRIDOR 108



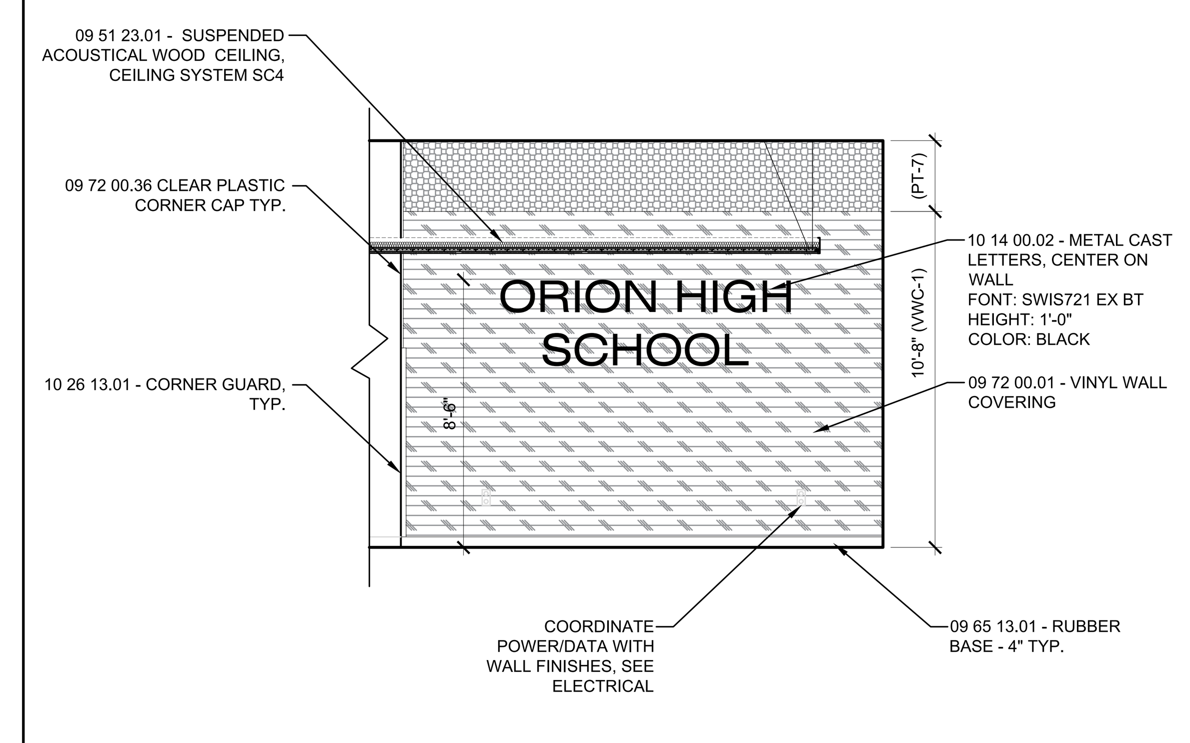
G4 VESTIBULE
SCALE: 1/4" = 1'-0" ROOM 132



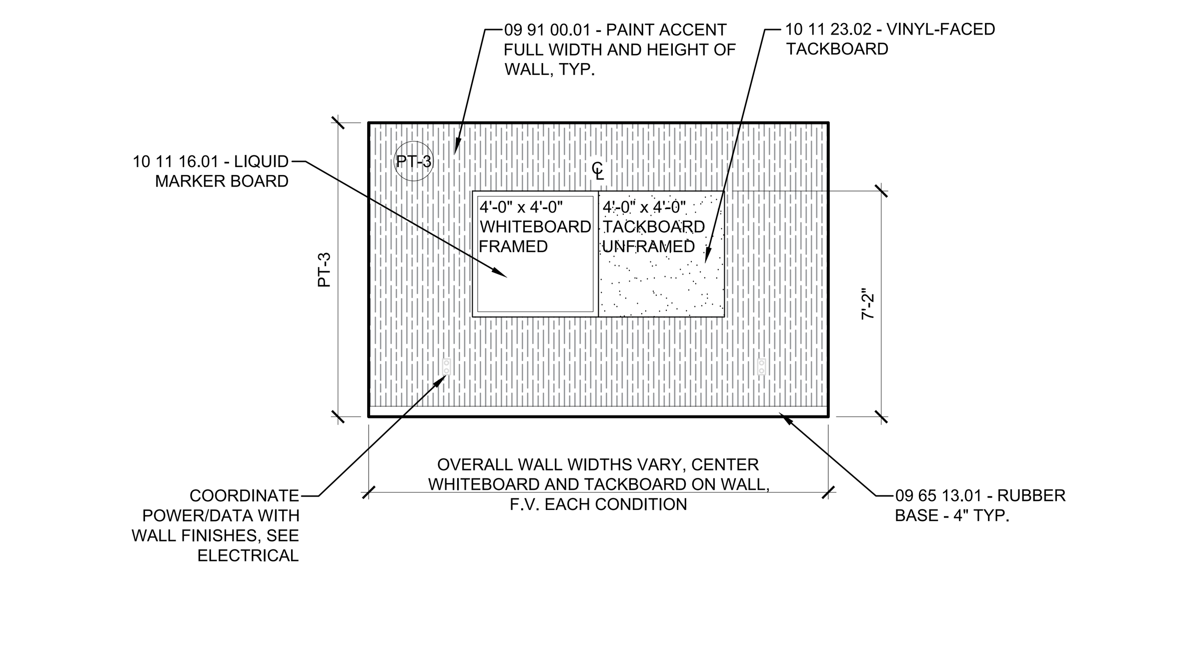
G5 VESTIBULE
SCALE: 1/4" = 1'-0" ROOM 132



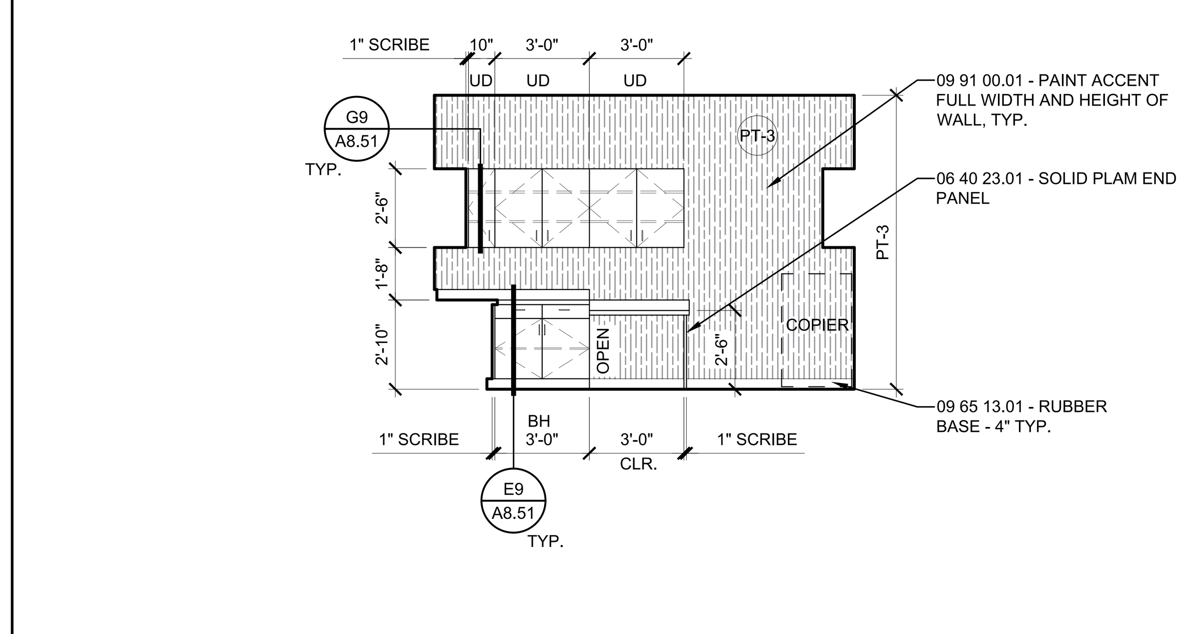
G7 WAITING
SCALE: 1/4" = 1'-0" WAITING 102



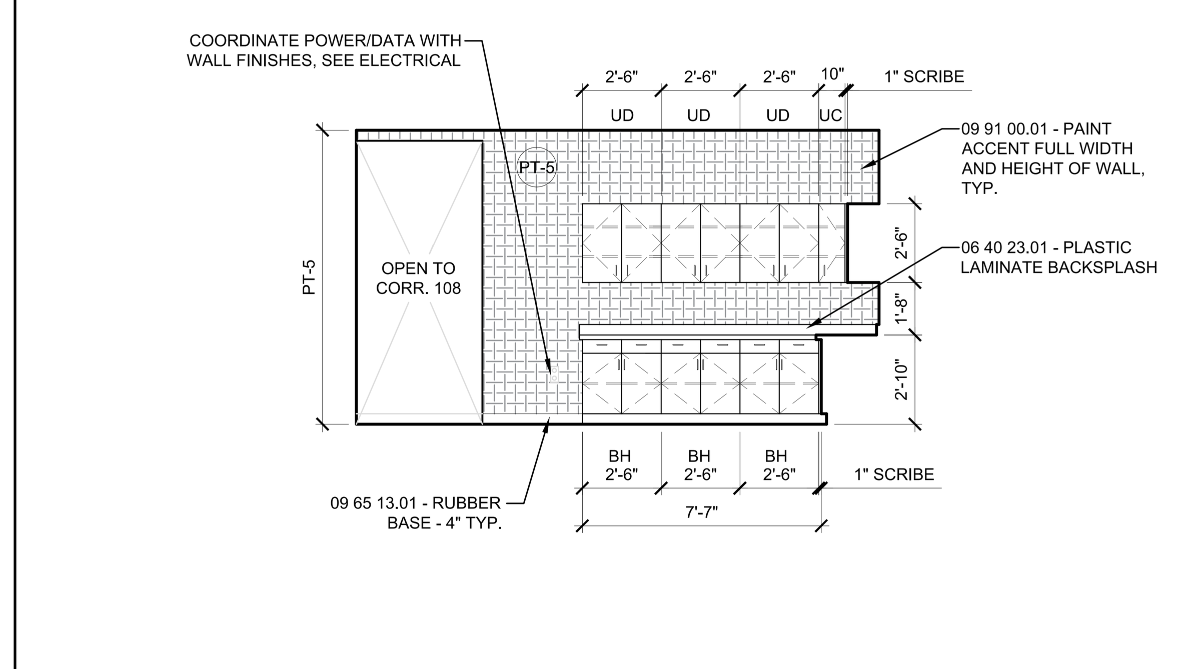
G10 WAITING
SCALE: 1/4" = 1'-0" WAITING 102



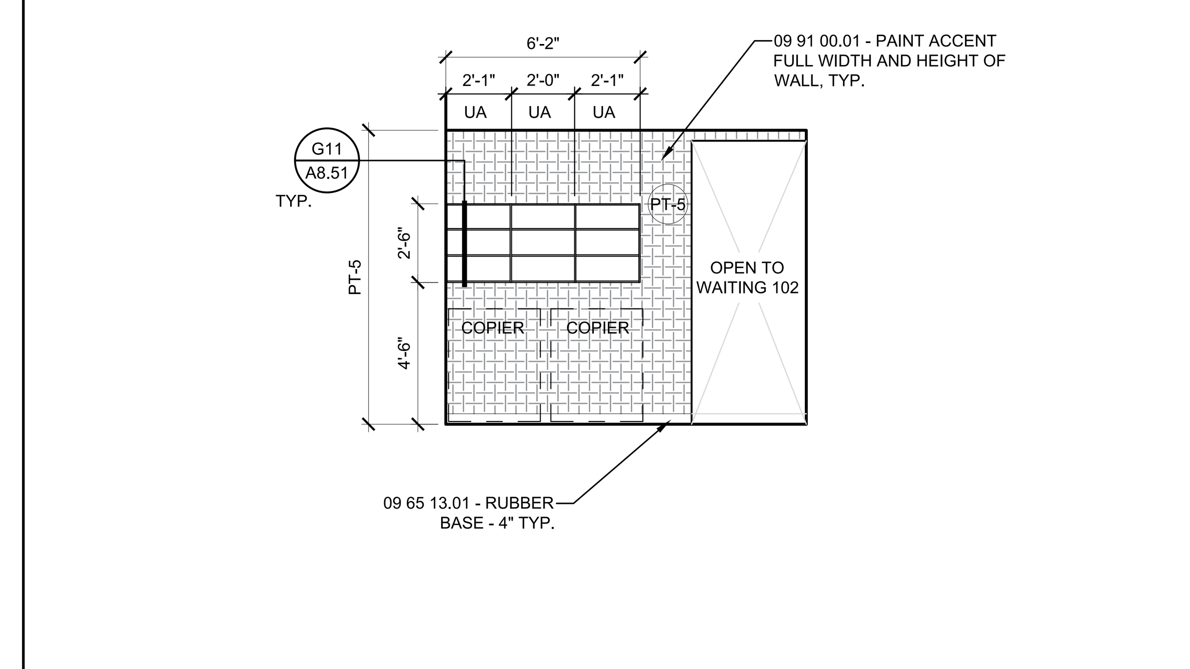
E1 OFFICE 111
SCALE: 1/4" = 1'-0"



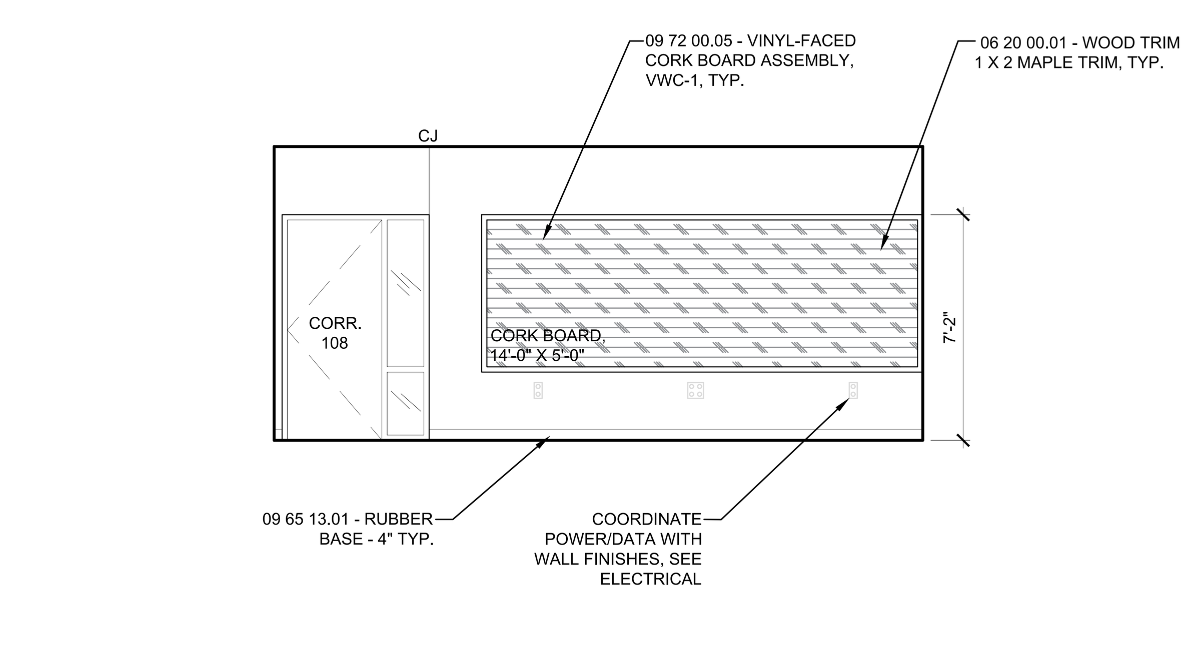
E4 WORKROOM
SCALE: 1/4" = 1'-0" ROOM 105



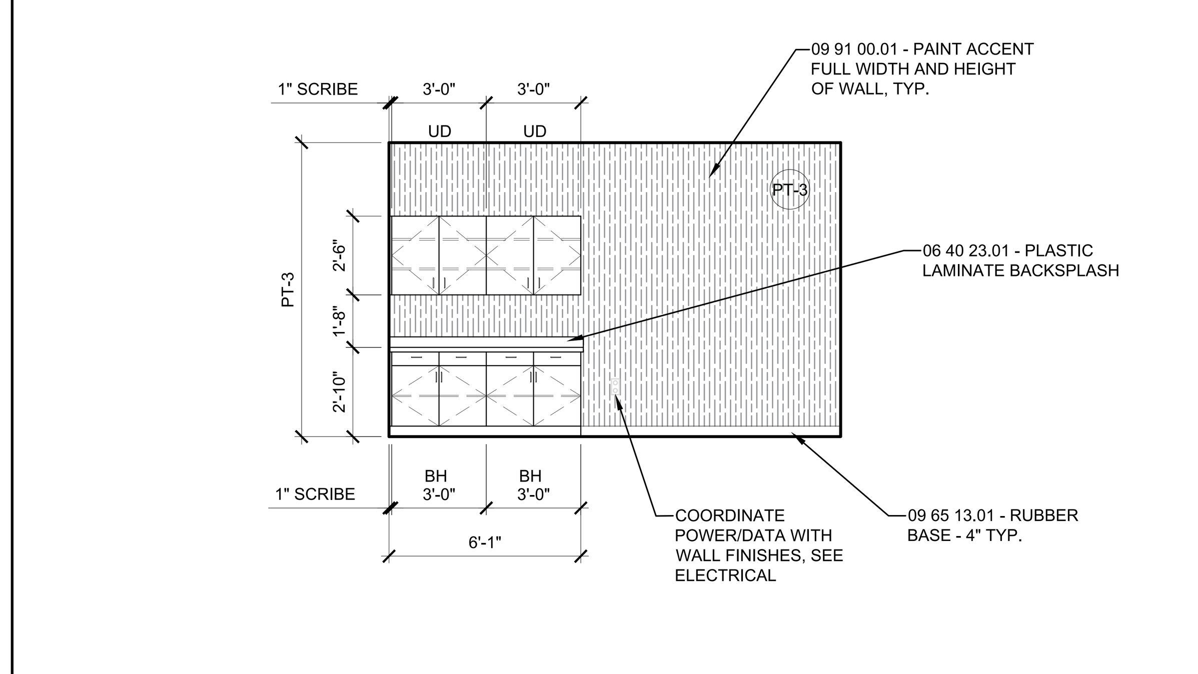
E7 WORKROOM
SCALE: 1/4" = 1'-0" ROOM 105



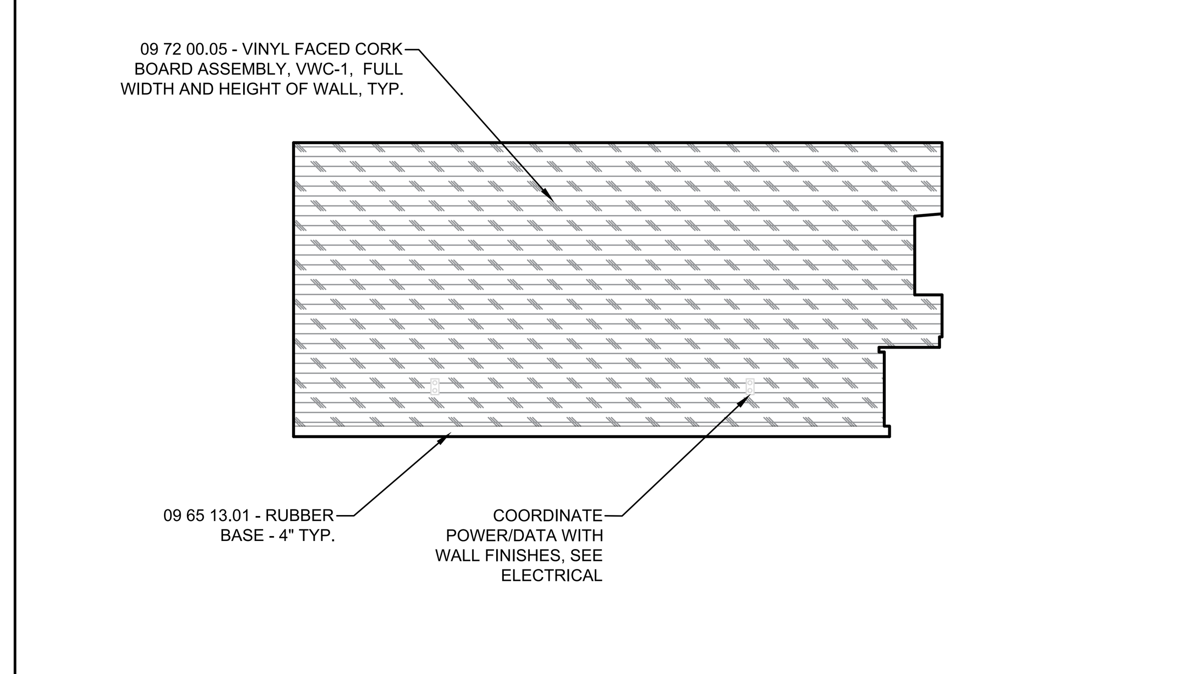
E10 WORKROOM
SCALE: 1/4" = 1'-0" ROOM 105



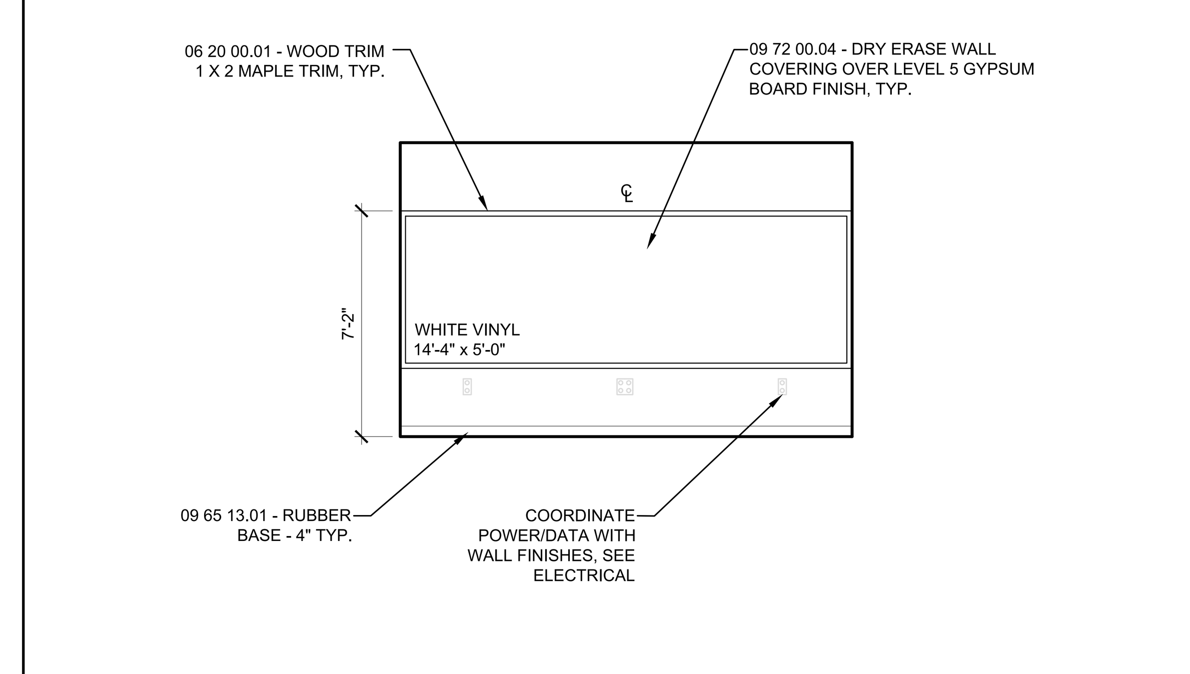
C1 CONFERENCE 112
SCALE: 1/4" = 1'-0"



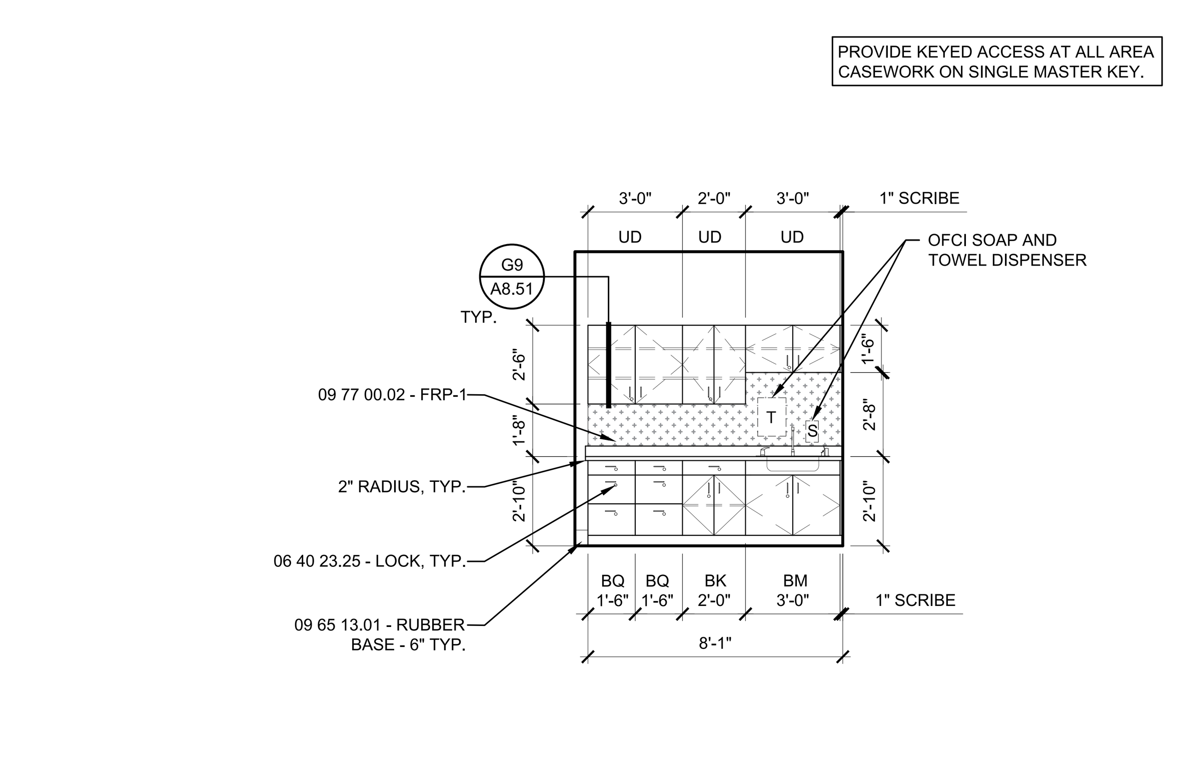
C4 CONFERENCE 112
SCALE: 1/4" = 1'-0"



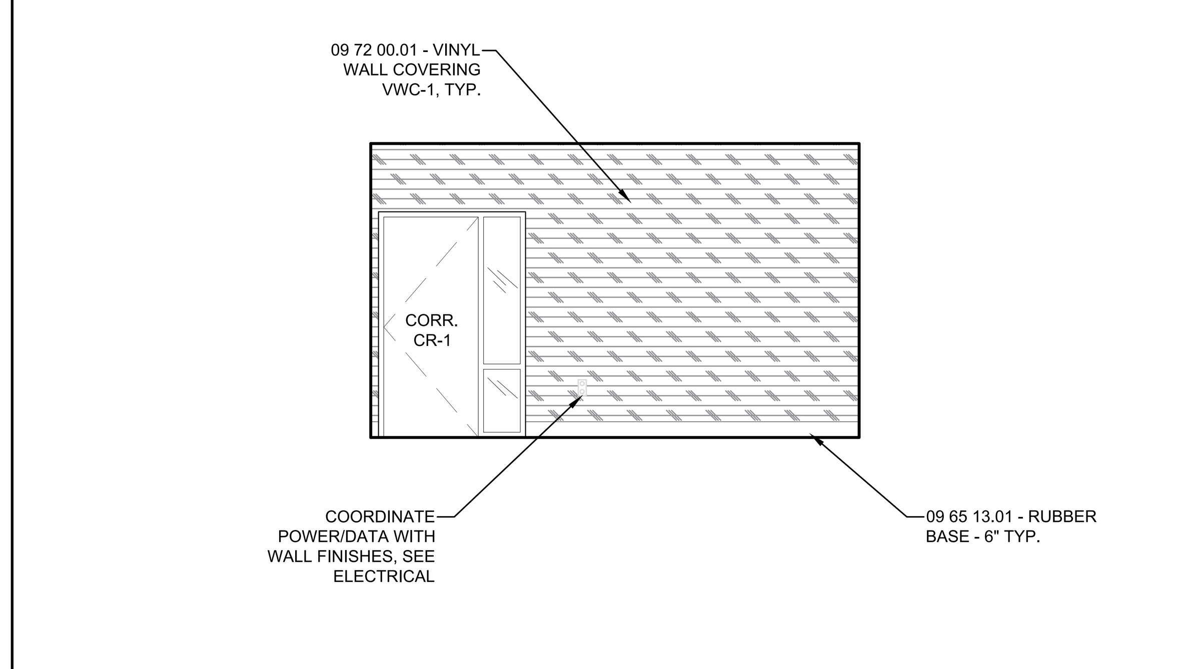
C7 CONFERENCE 112
SCALE: 1/4" = 1'-0"



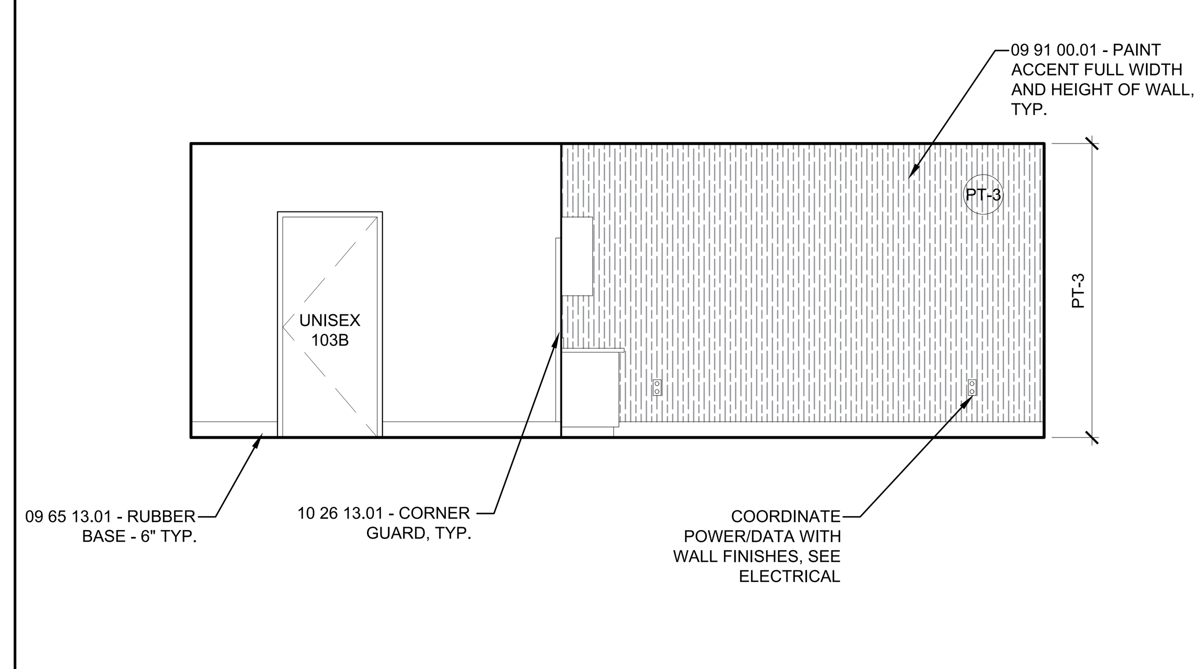
C10 CONFERENCE 112
SCALE: 1/4" = 1'-0"



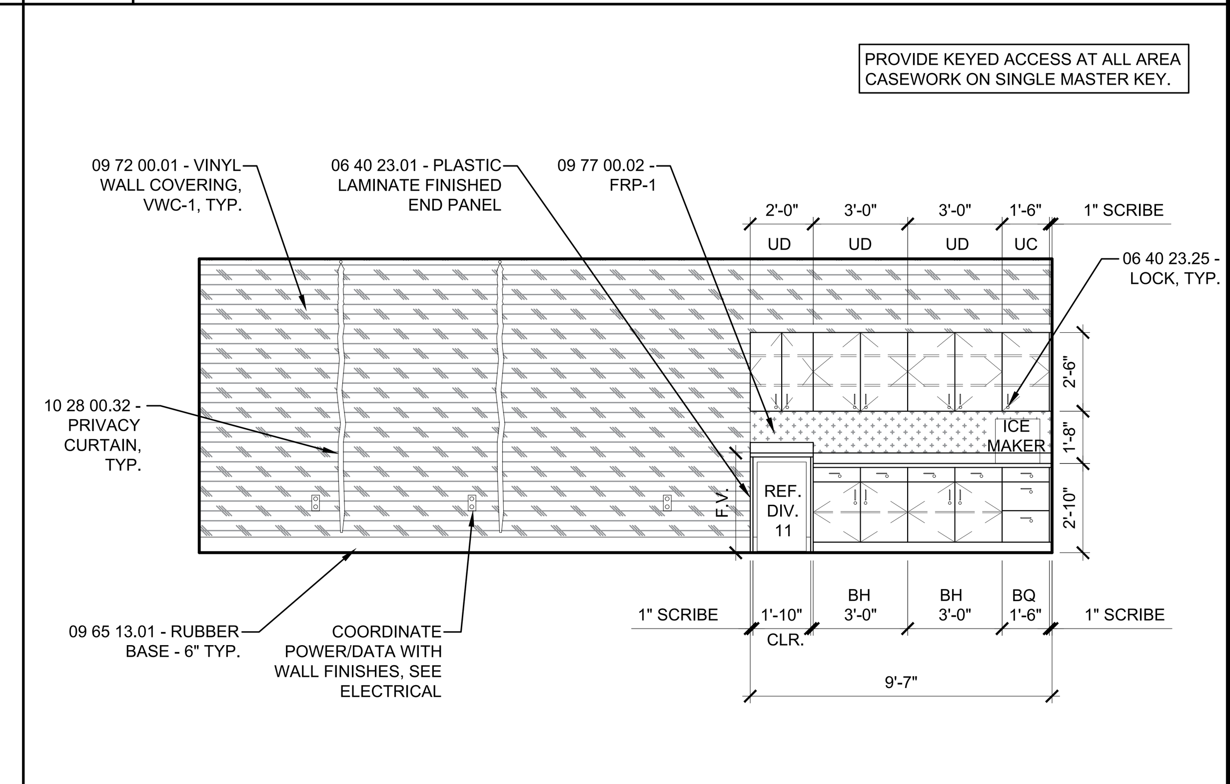
A1 HEALTH 103
SCALE: 1/4" = 1'-0" ROOM 103



A4 HEALTH 103
SCALE: 1/4" = 1'-0" ROOM 103



A7 HEALTH 103
SCALE: 1/4" = 1'-0" ROOM 103



A10 HEALTH 103
SCALE: 1/4" = 1'-0" ROOM 103

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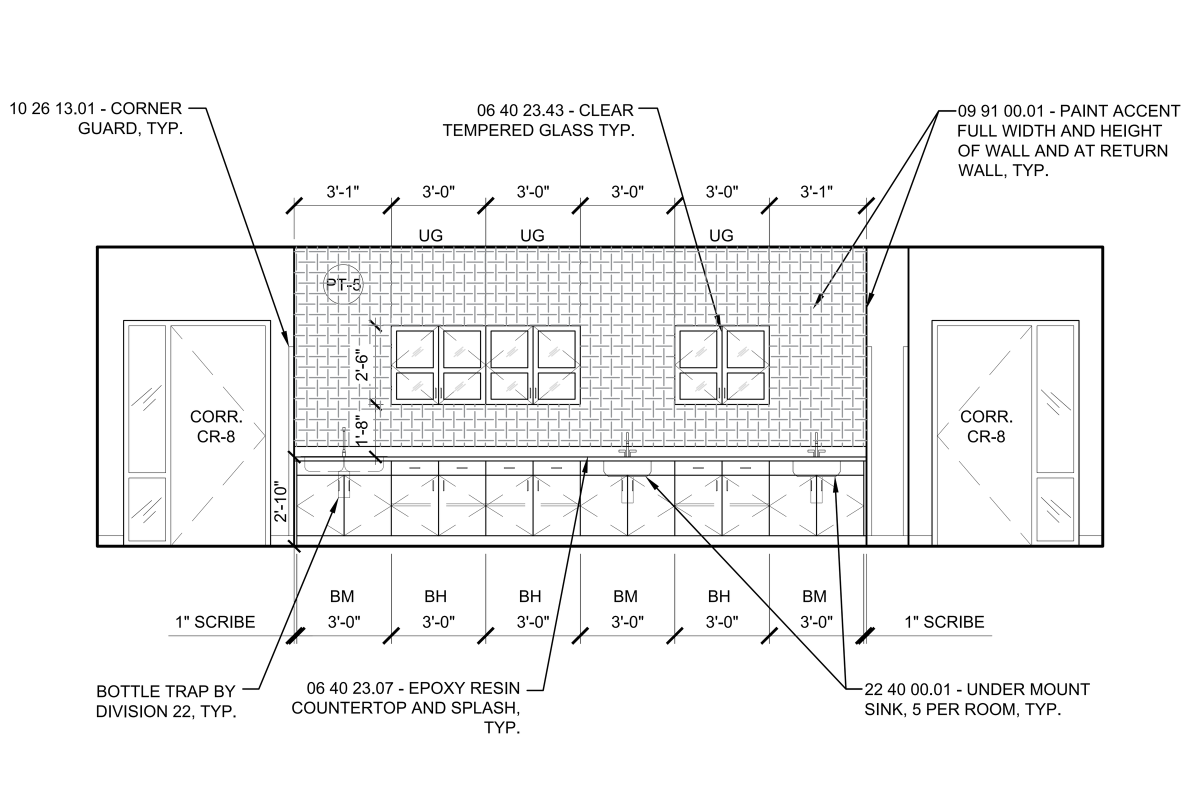
9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

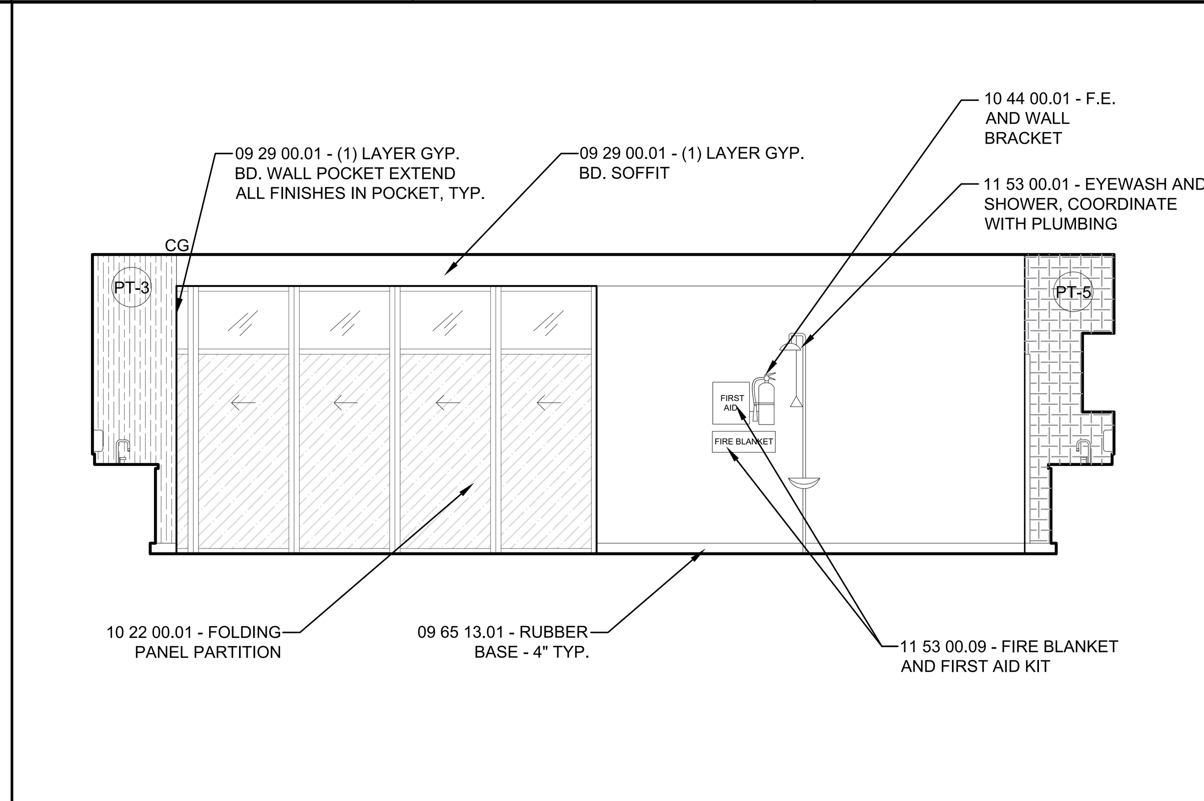
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE 12/18/2023
SHEET NAME
INTERIOR ELEVATIONS
SHEET
A7.17



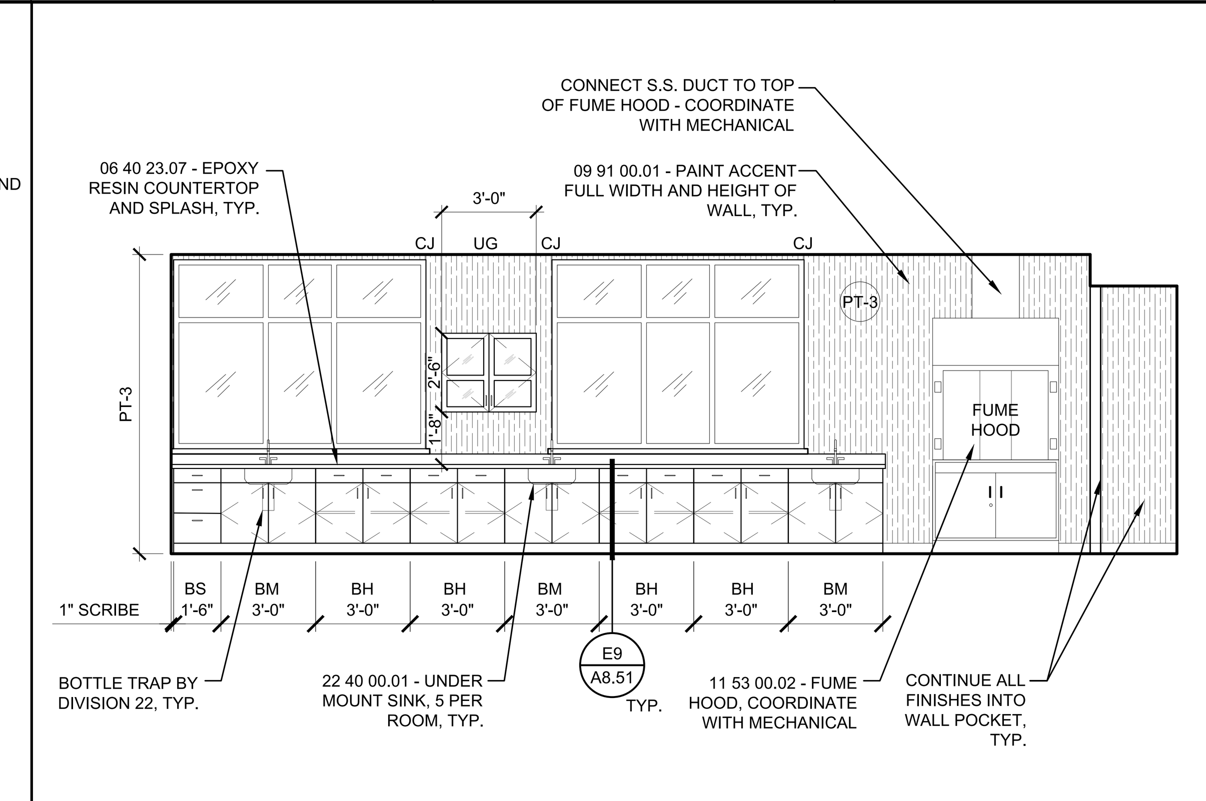
G1 HEALTH LAB

SCALE: 1/4" = 1'-0"   ROOM 226



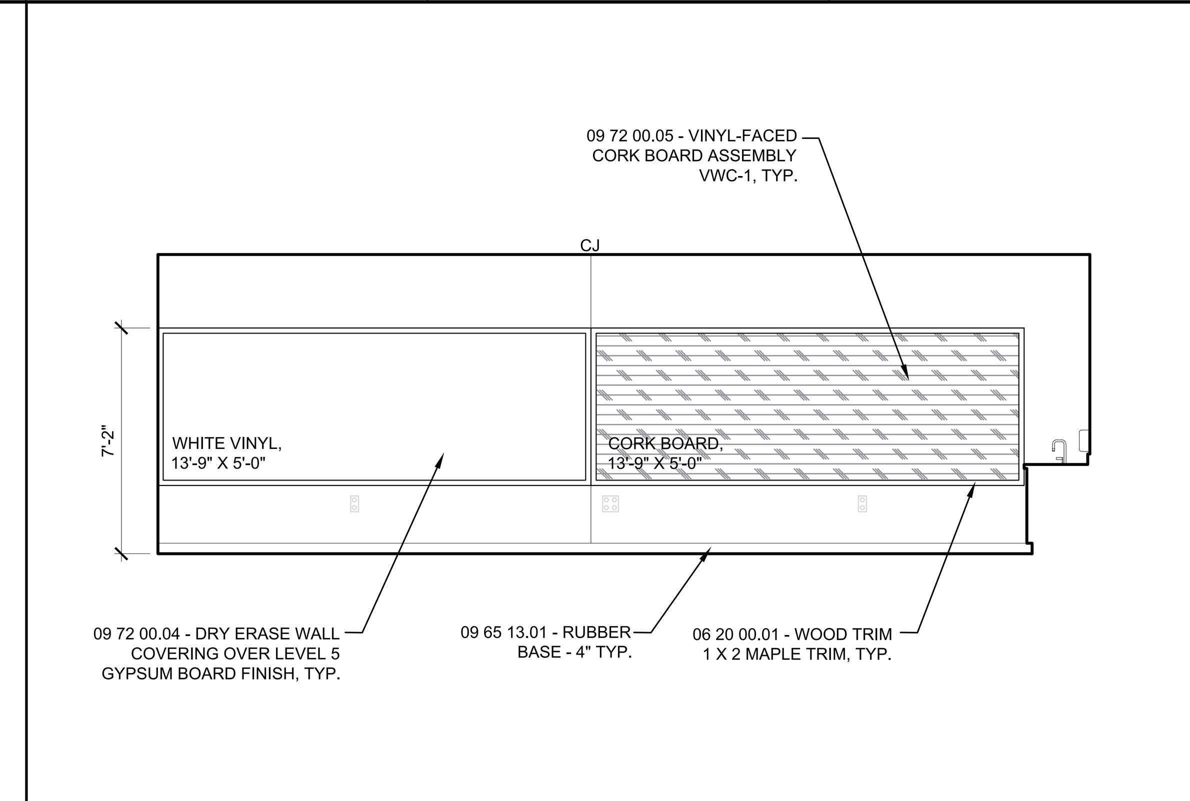
G4 HEALTH LAB

SCALE: 1/4" = 1'-0"   ROOM 226



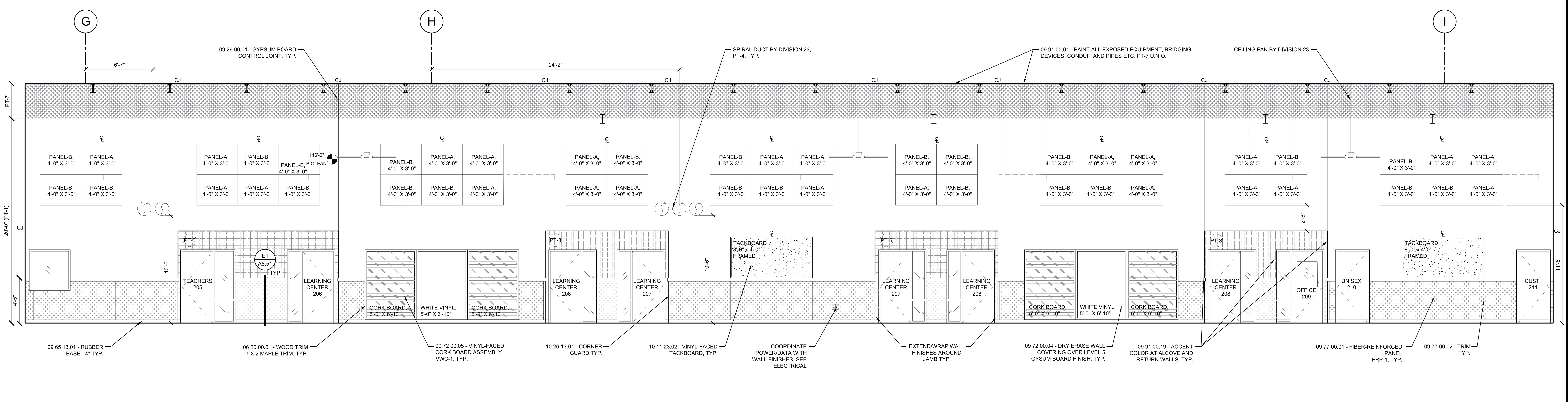
G7 HEALTH LAB

SCALE: 1/4" = 1'-0"   ROOM 226



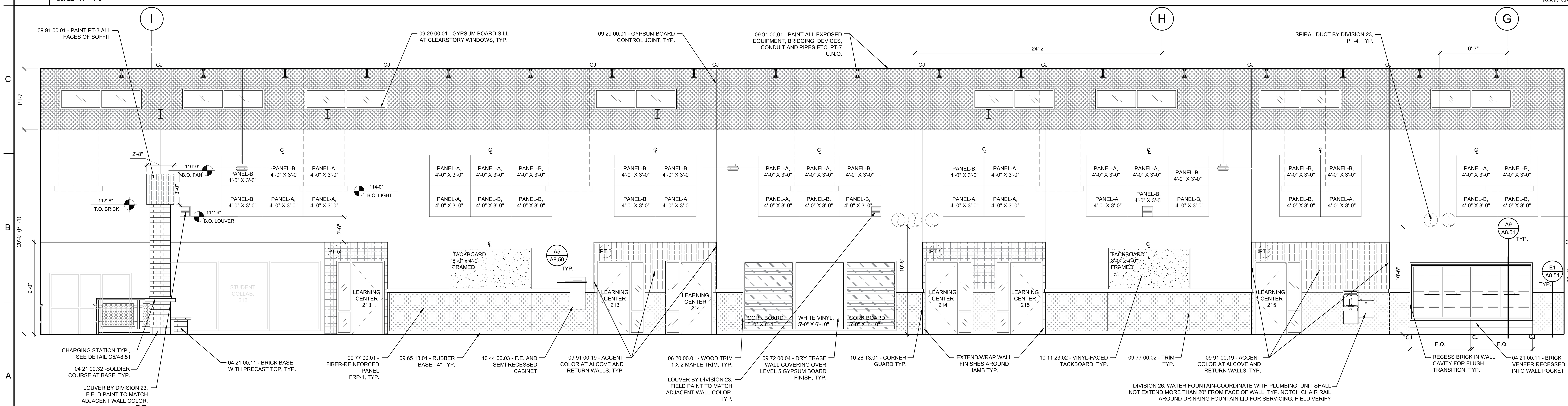
G10 HEALTH LAB

SCALE: 1/4" = 1'-0"   ROOM 226



D1 CORRIDOR CR-7

SCALE: 1/4" = 1'-0"   ROOM CR-7



A1 CORRIDOR CR-7

SCALE: 1/4" = 1'-0"   ROOM CR-7

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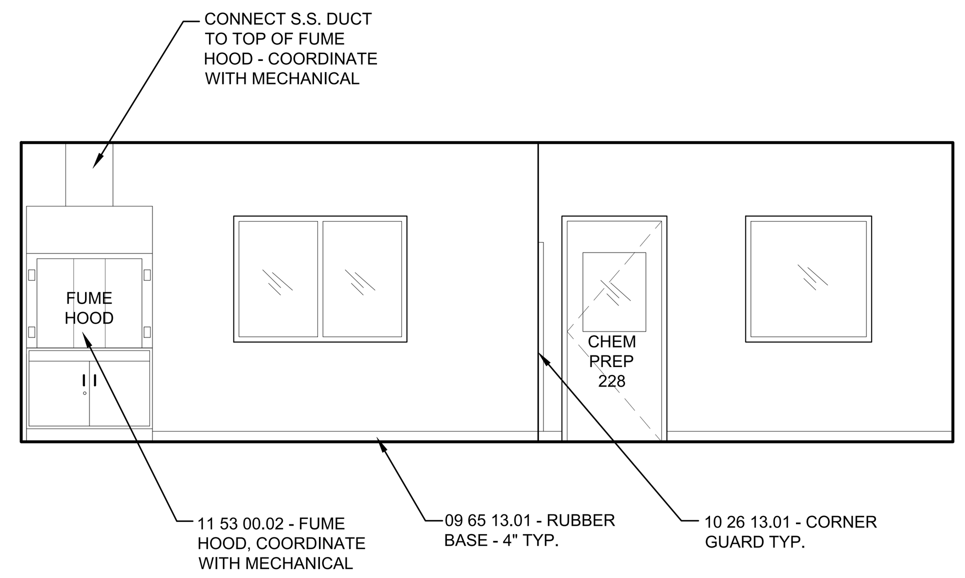
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

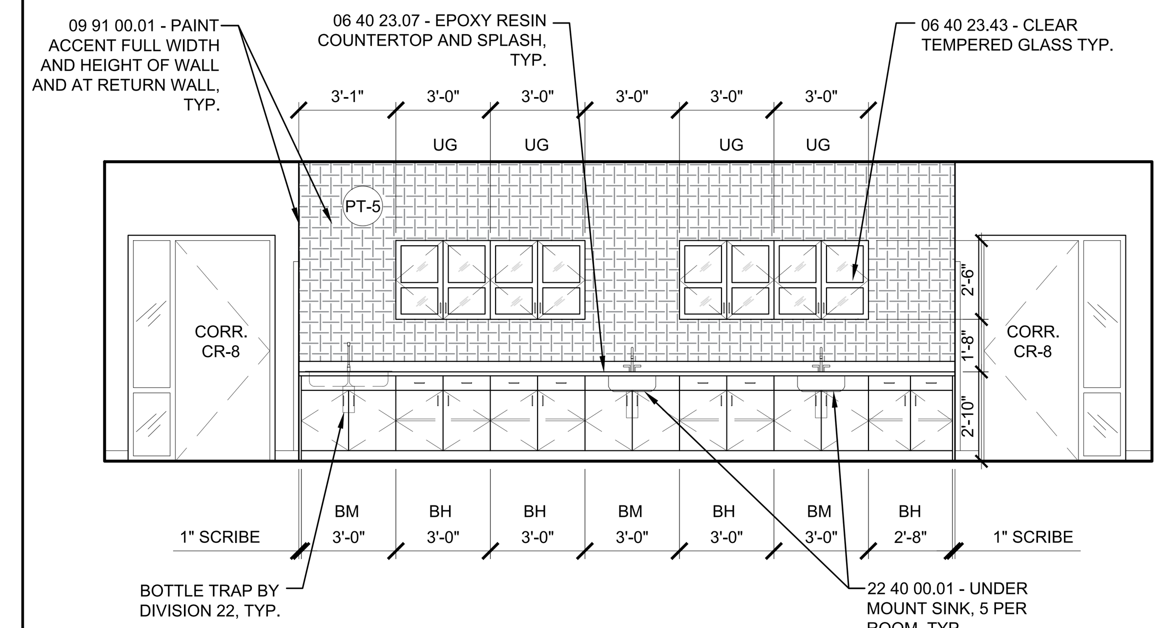
SHEET NAME
INTERIOR ELEVATIONS

SHEET
A7.18



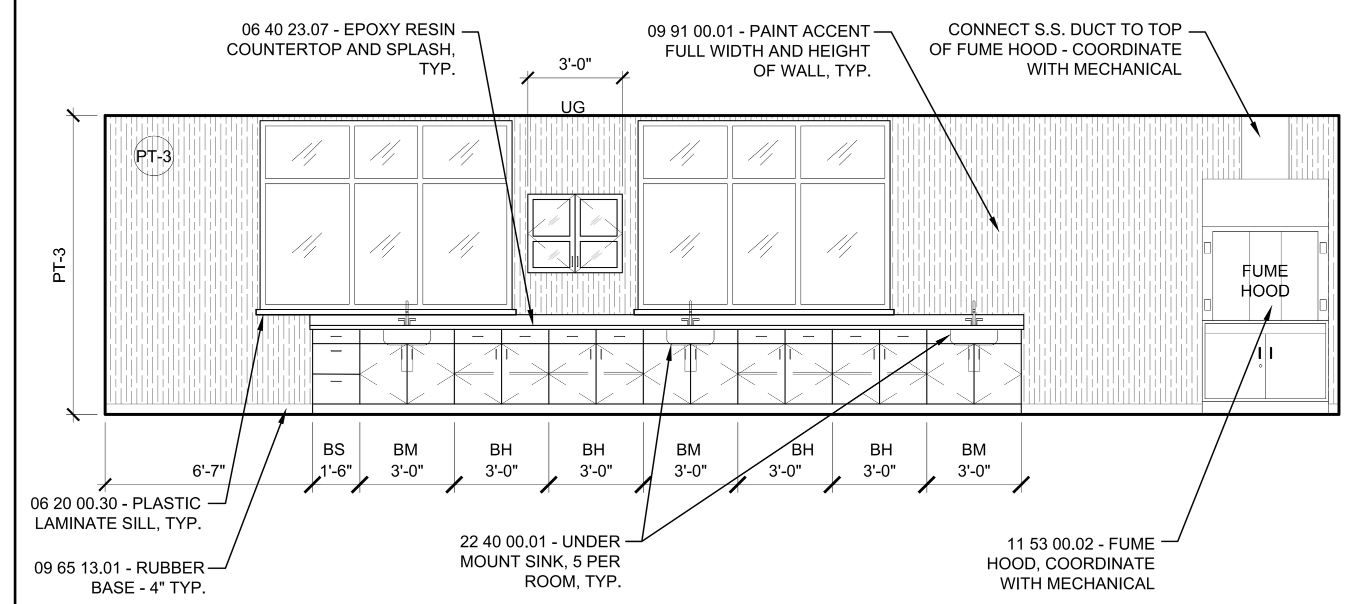
G3 **HEALTH LAB**

SCALE: 1/4" = 1'-0" ROOM 227



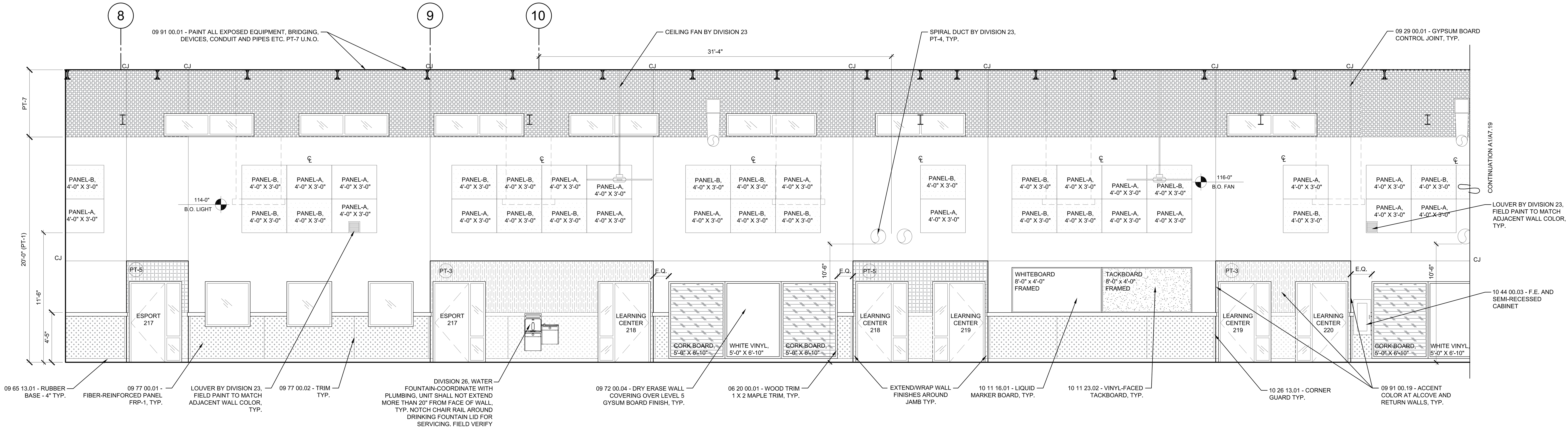
G6 **HEALTH LAB**

SCALE: 1/4" = 1'-0" ROOM 227



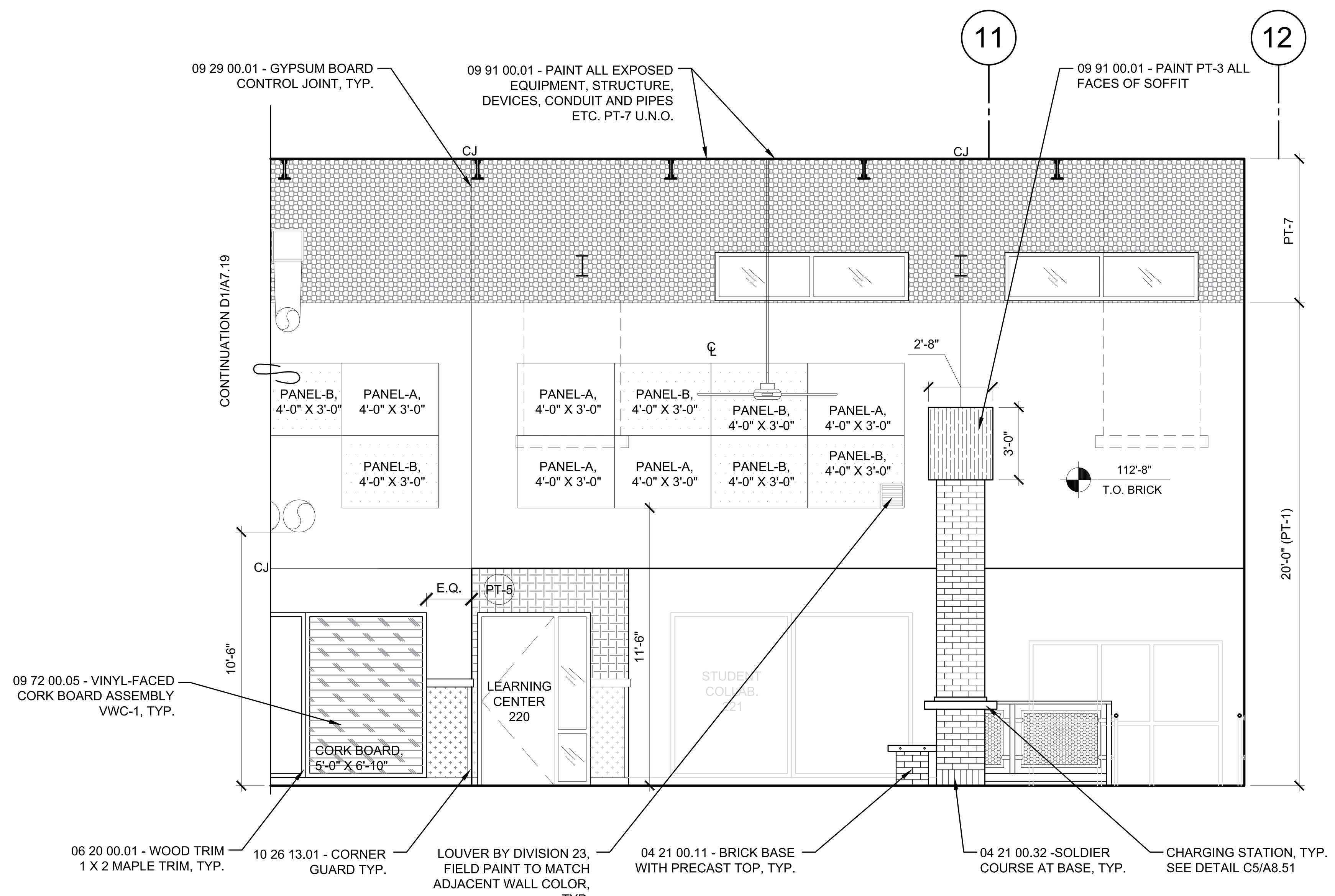
G9 **HEALTH LAB**

SCALE: 1/4" = 1'-0" ROOM 227



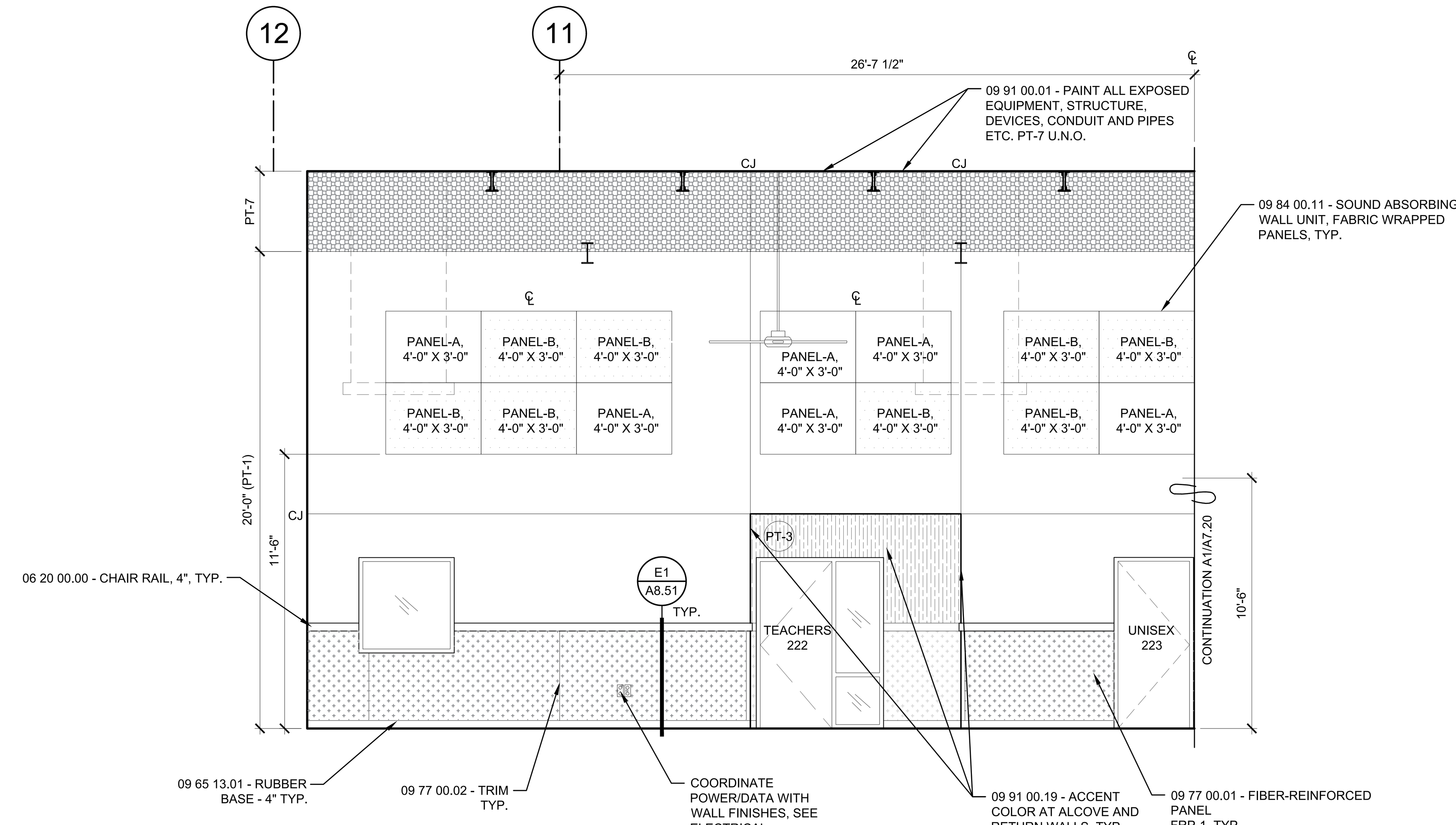
D1 **CORRIDOR CR-8**

SCALE: 1/4" = 1'-0" ROOM CR-8



A1 **CORRIDOR CR-8**

SCALE: 1/4" = 1'-0" ROOM CR-8



A7 **CORRIDOR CR-8**

SCALE: 1/4" = 1'-0" ROOM CR-8

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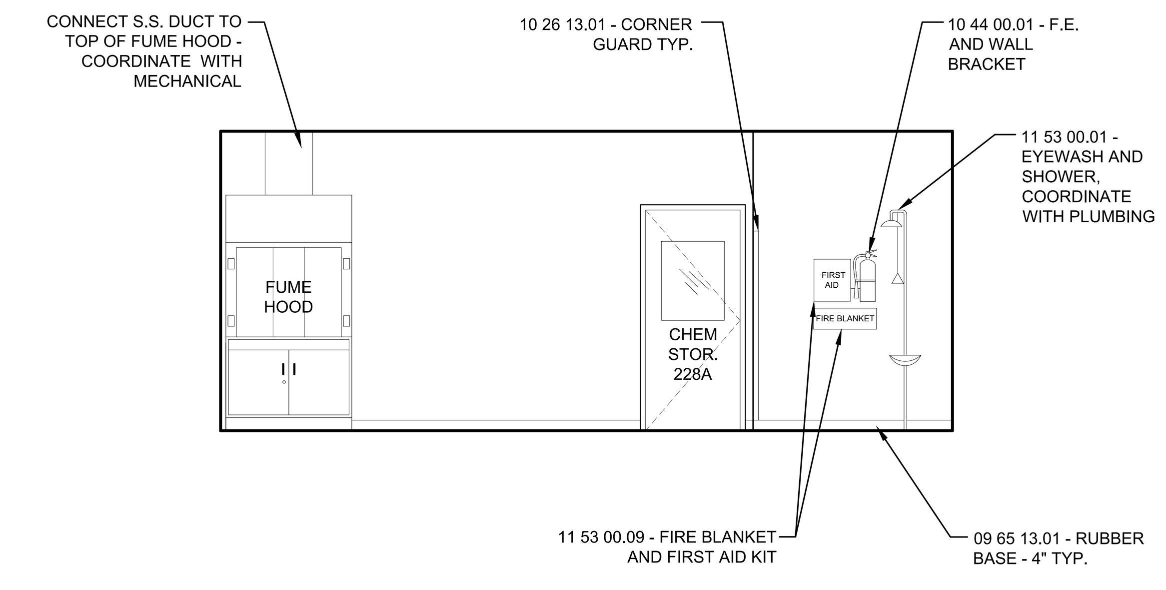
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

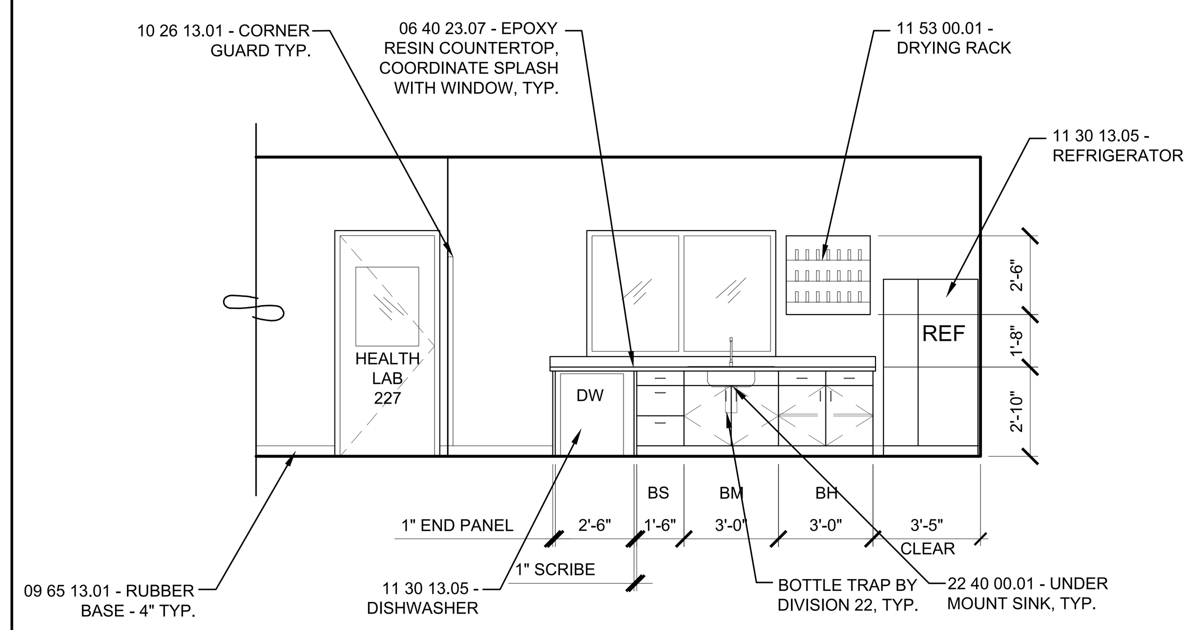
SHEET NAME
INTERIOR ELEVATIONS

SHEET
A7.19



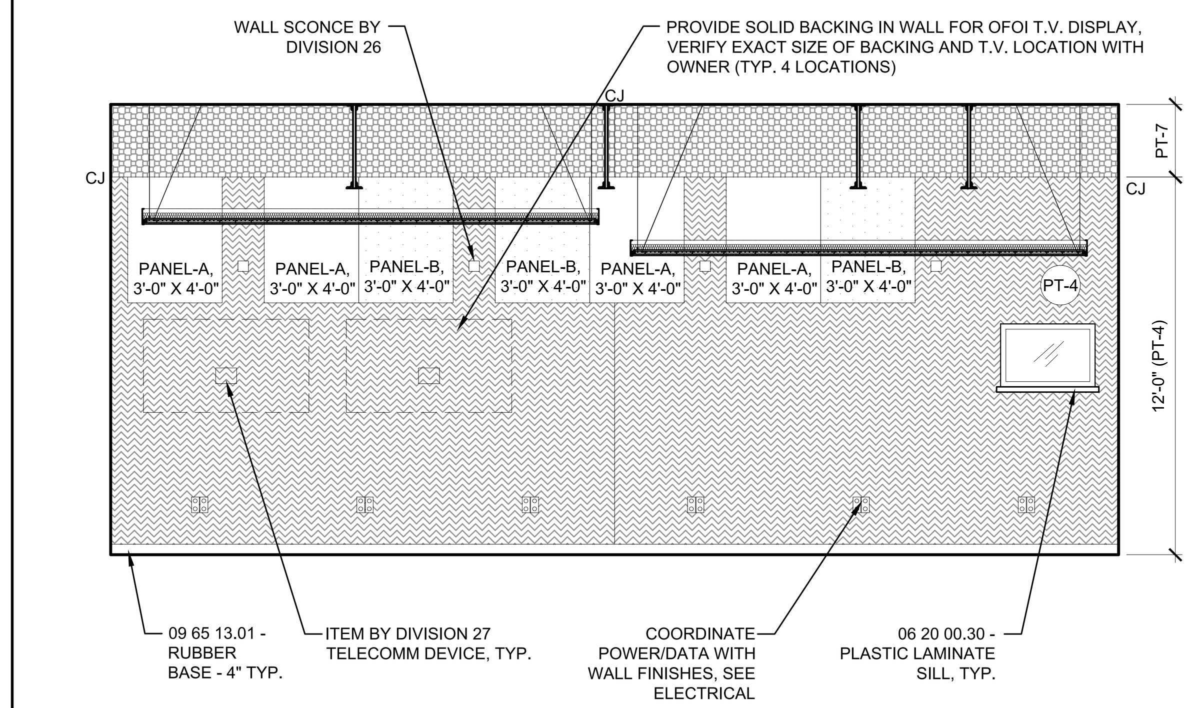
G1 CHEM PREP

SCALE: 1/4" = 1'-0" ROOM 228



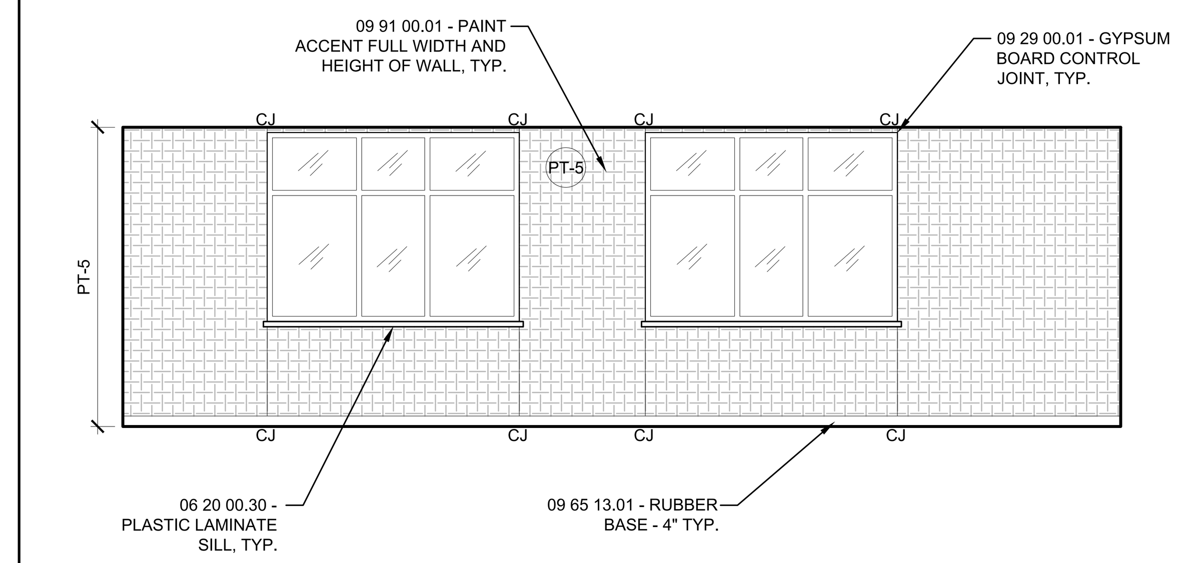
G4 CHEM PREP

SCALE: 1/4" = 1'-0" ROOM 228



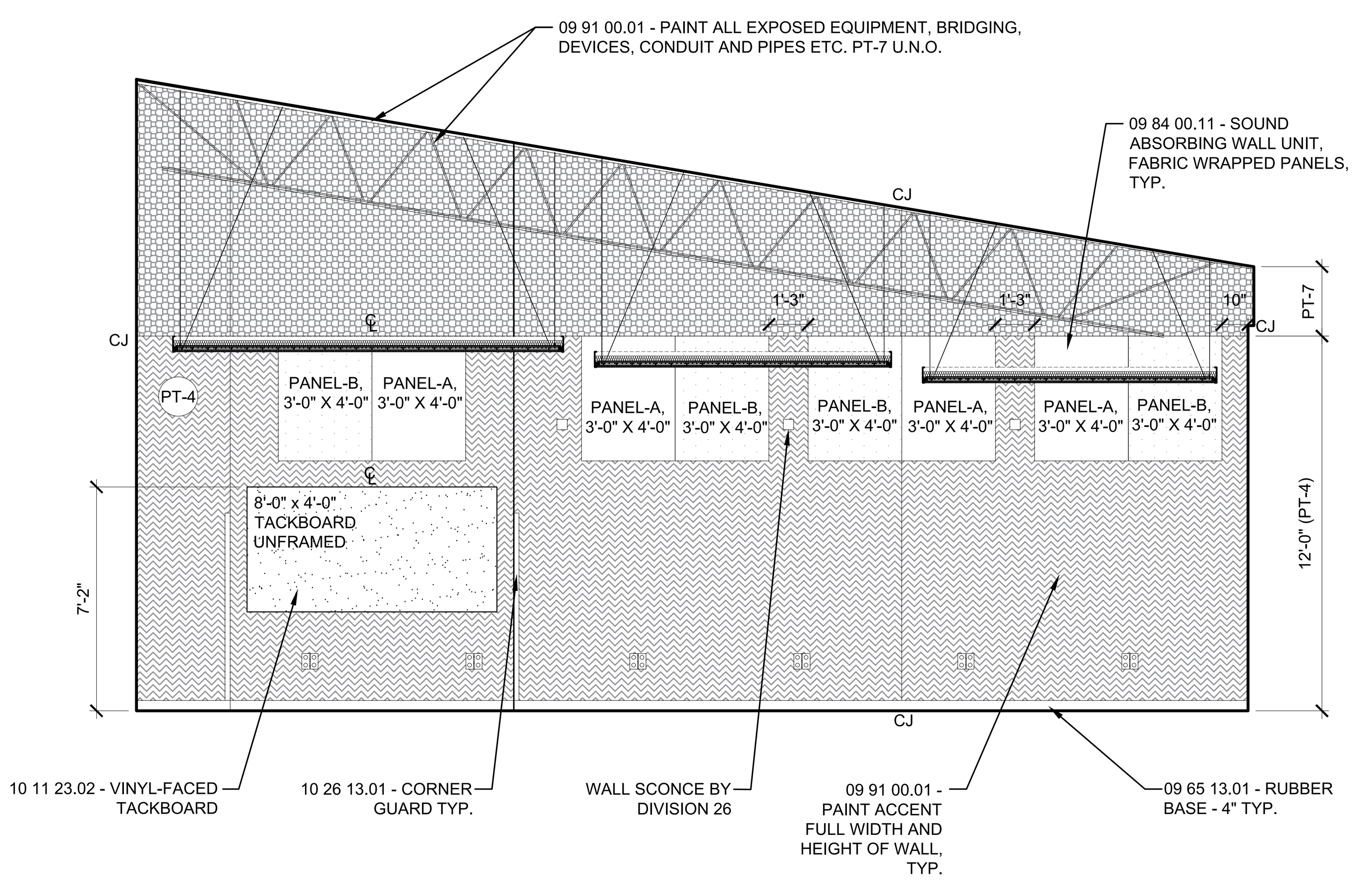
G7 ESPORT

SCALE: 1/4" = 1'-0" ROOM 217



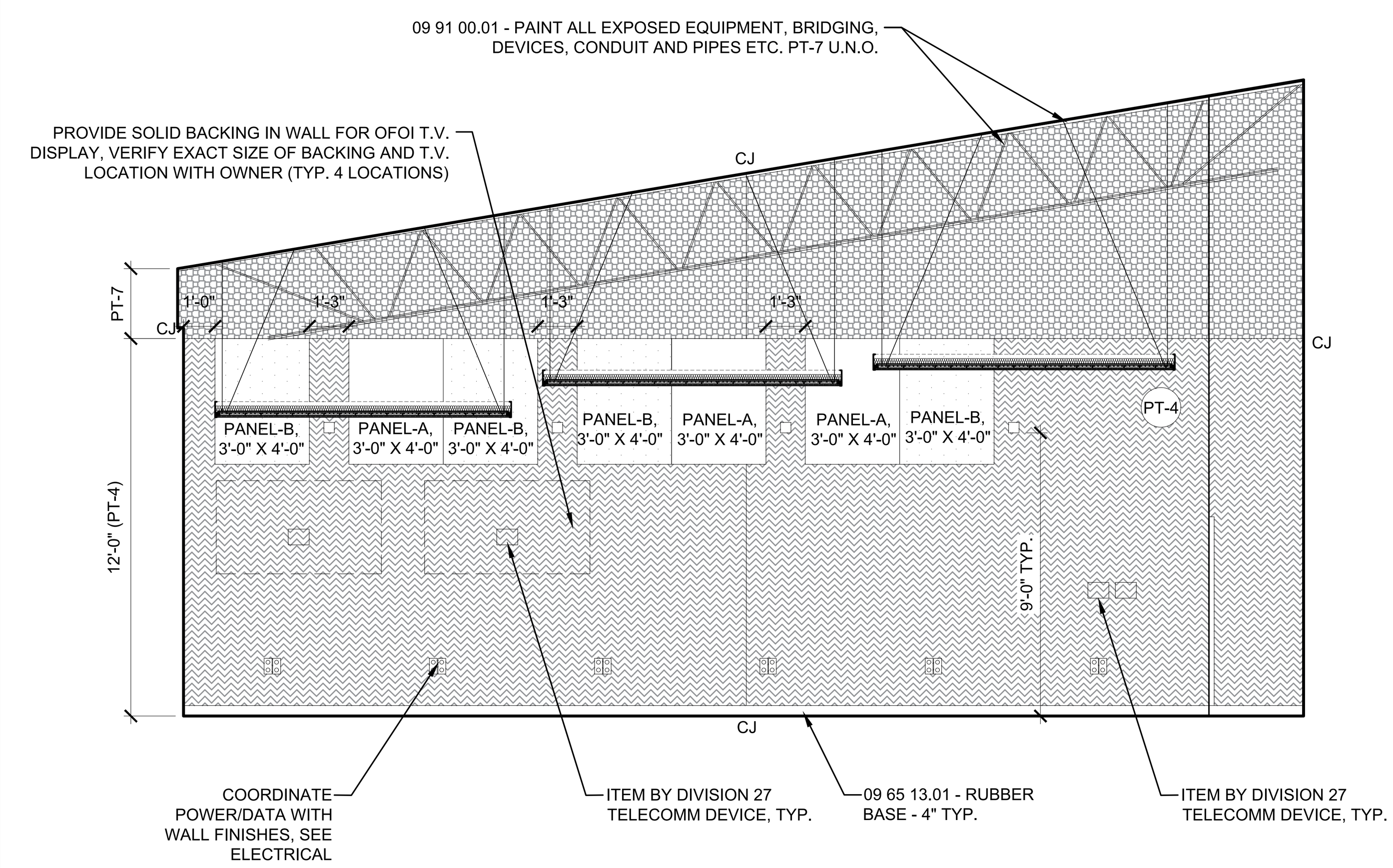
G10 LEARNING CENTER

SCALE: 1/4" = 1'-0" ROOM 149, 150, 151, 213, 214,



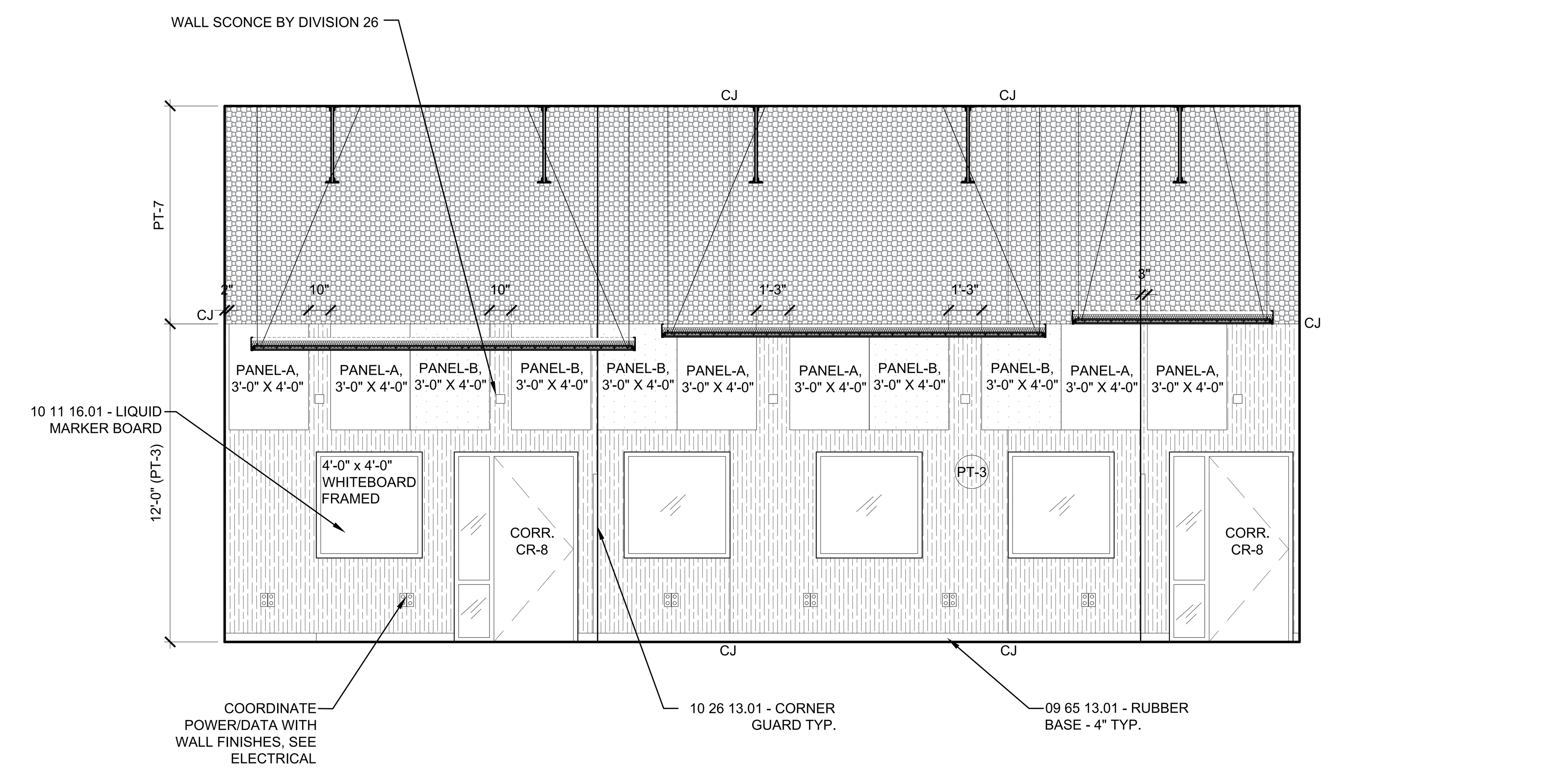
D1 ESPORT

SCALE: 1/4" = 1'-0" ROOM 217



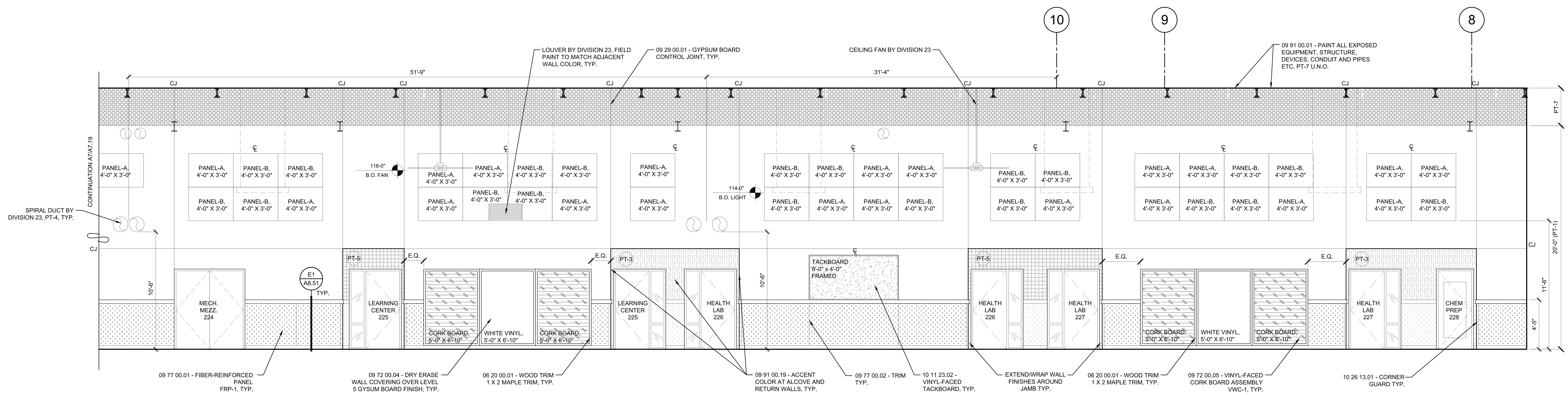
D4 ESPORT

SCALE: 1/4" = 1'-0" ROOM 217



D8 ESPORT

SCALE: 1/4" = 1'-0" ROOM 217



A1 CORRIDOR CR-8

SCALE: 1/4" = 1'-0" ROOM CR-8

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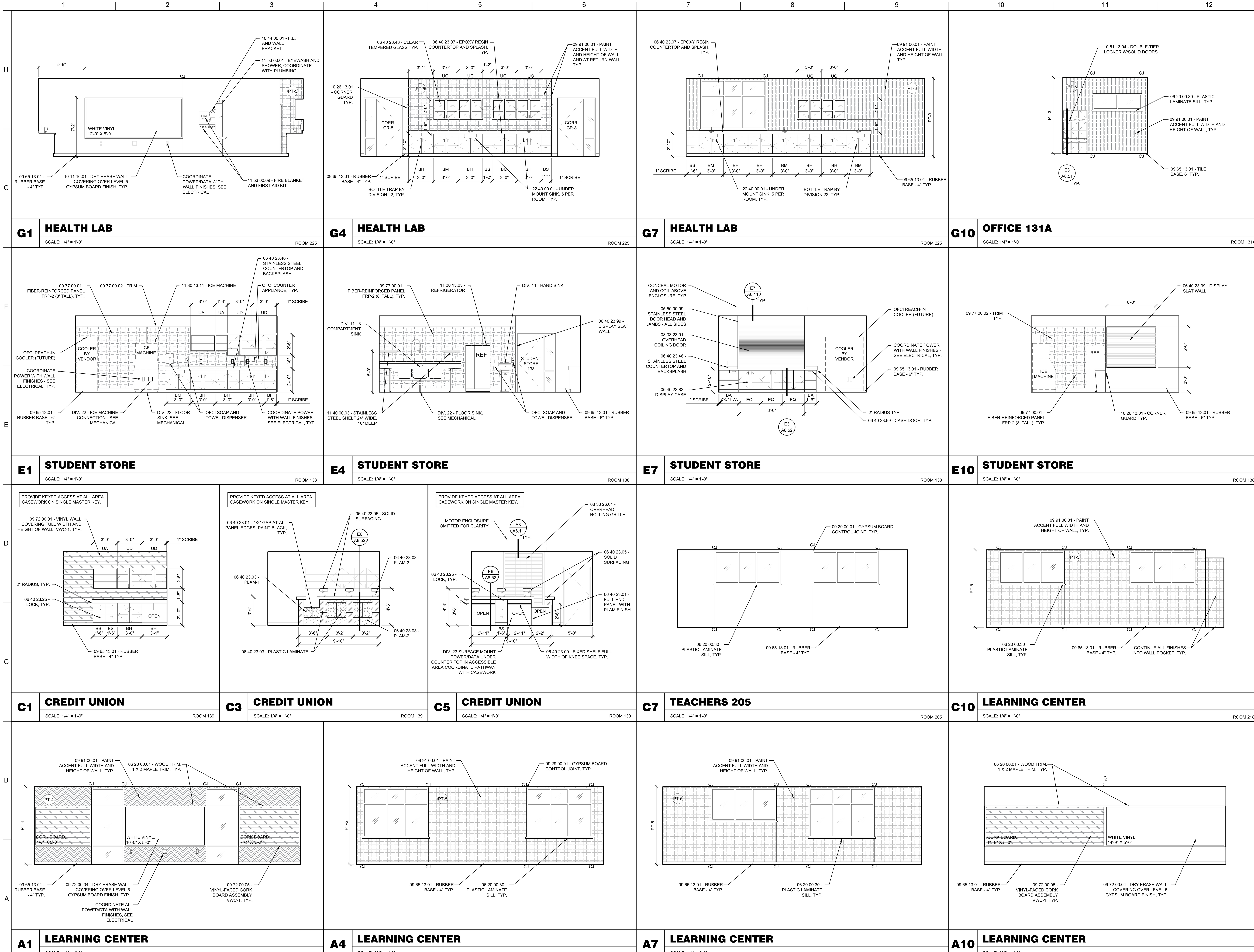
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
INTERIOR ELEVATIONS

SHEET
A7.20



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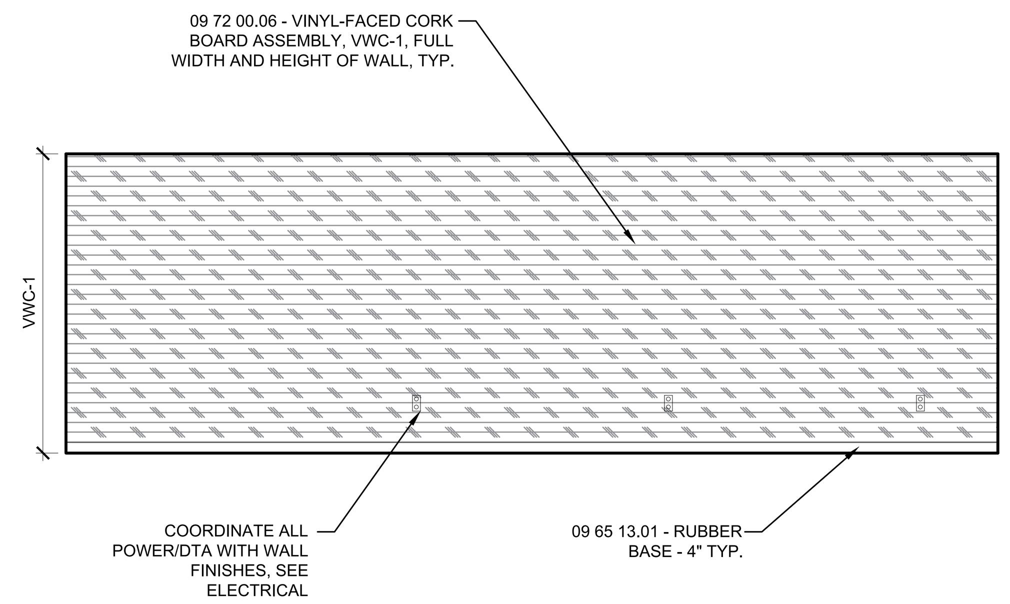
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

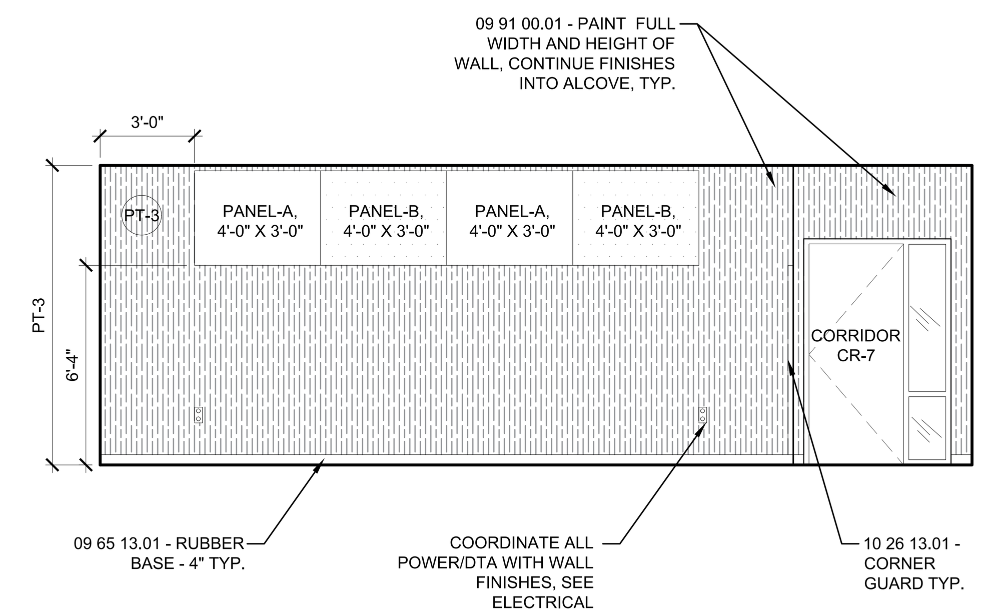
DATE: 12/18/2023

SHEET NAME: INTERIOR ELEVATIONS

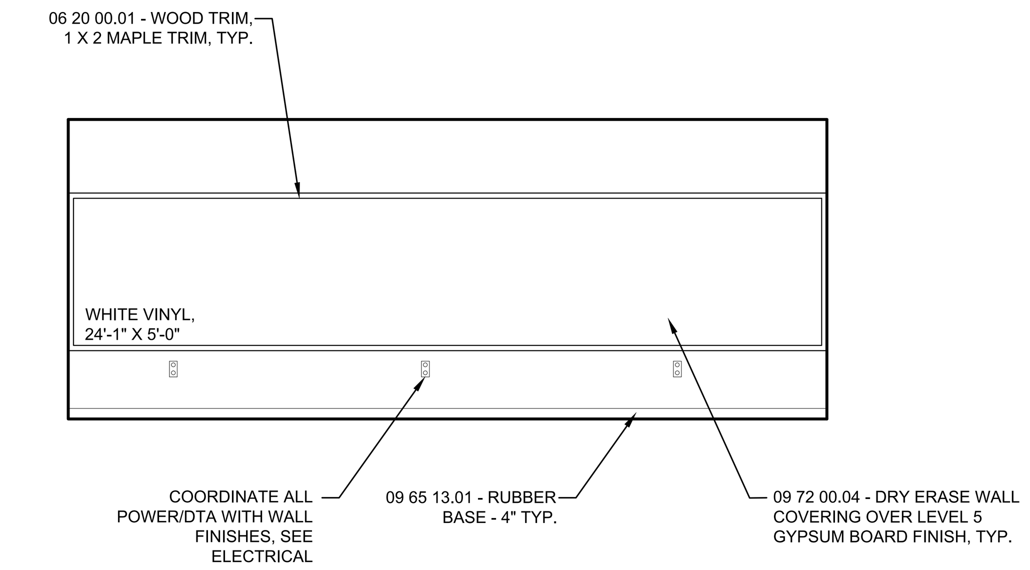
SHEET: A7.21



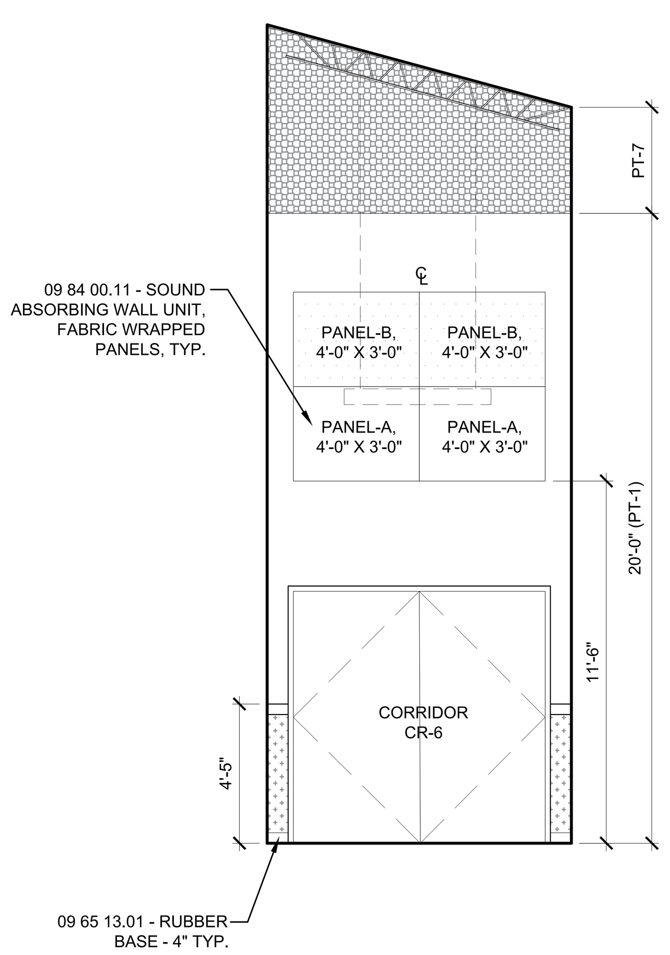
G4 OFFICE 209
SCALE: 1/4" = 1'-0" ROOM 209



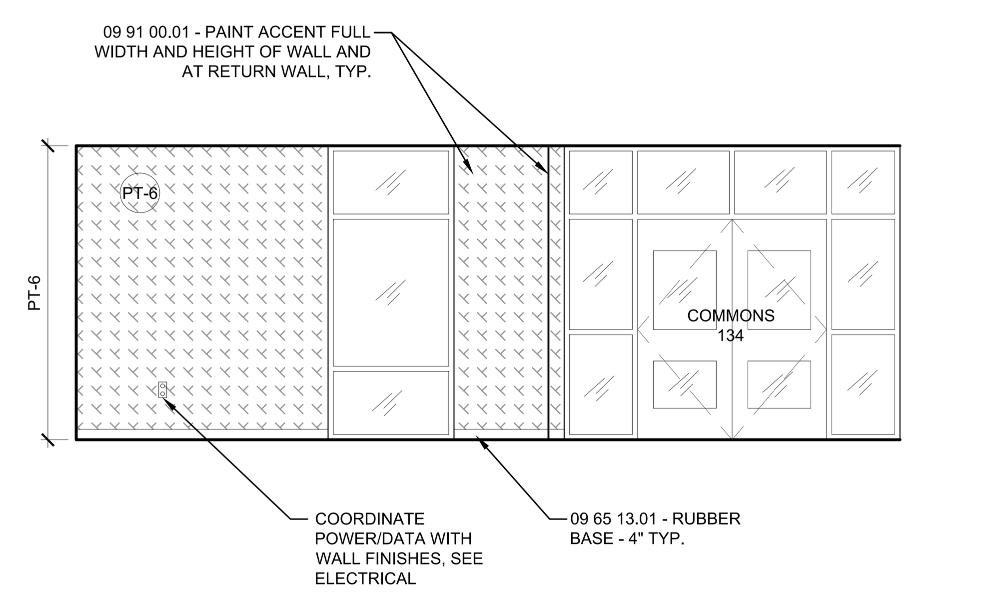
G7 OFFICE 209
SCALE: 1/4" = 1'-0" ROOM 209



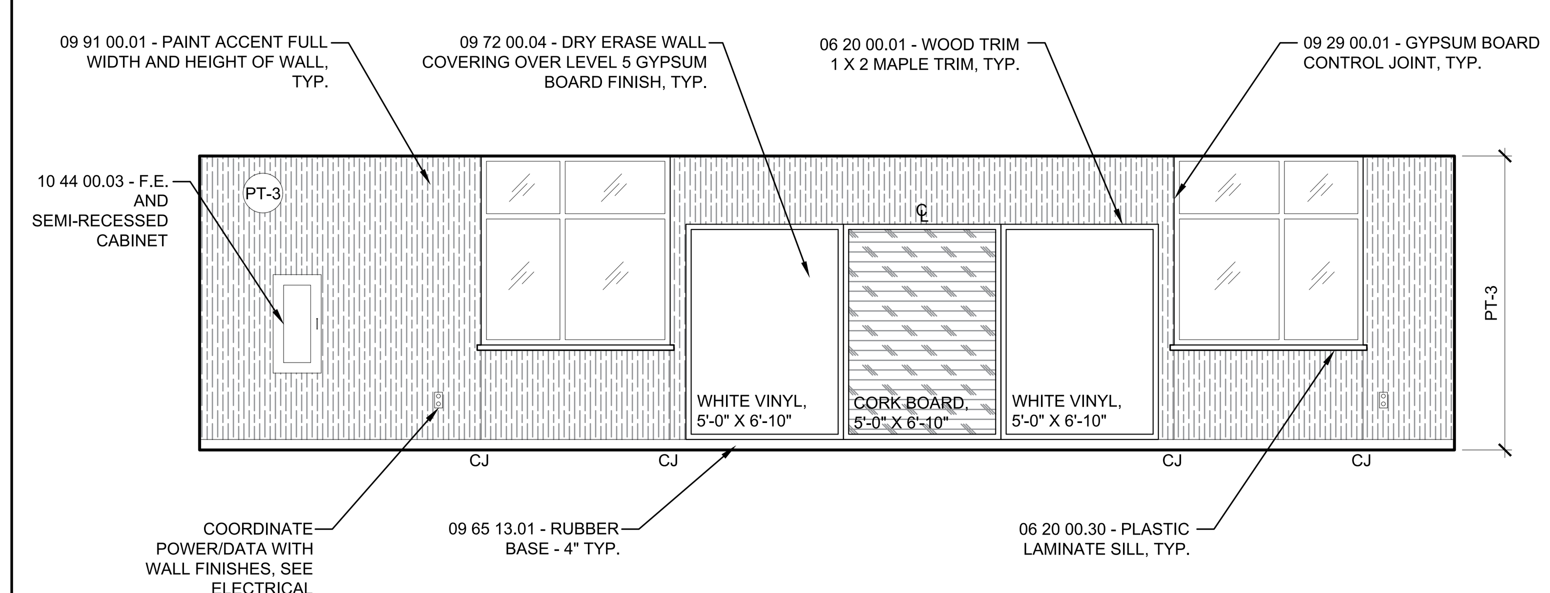
G10 OFFICE 209
SCALE: 1/4" = 1'-0" ROOM 209



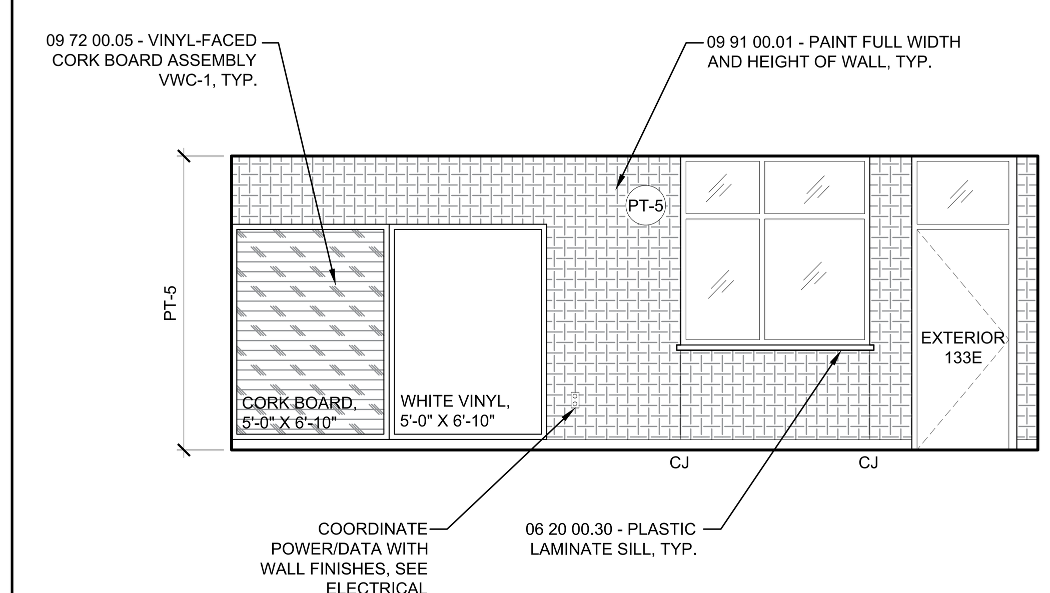
E1 CORRIDOR CR-7
SCALE: 1/4" = 1'-0"



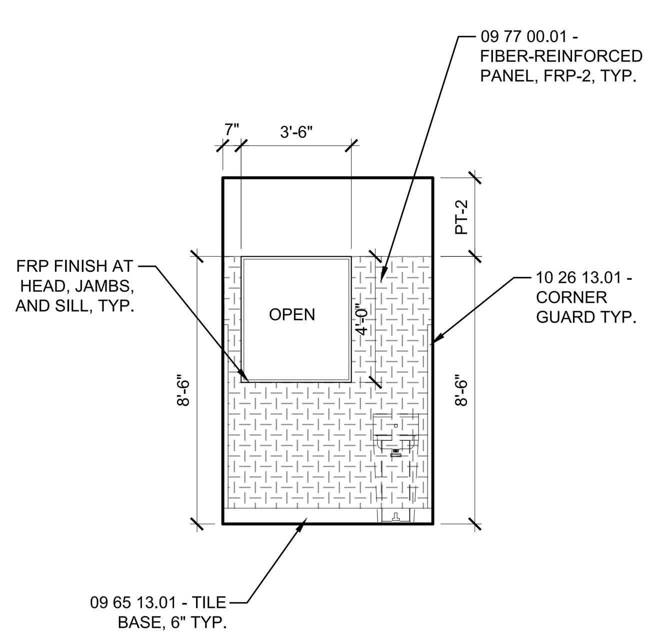
E3 CAREER CENTER
SCALE: 1/4" = 1'-0" ROOM 133



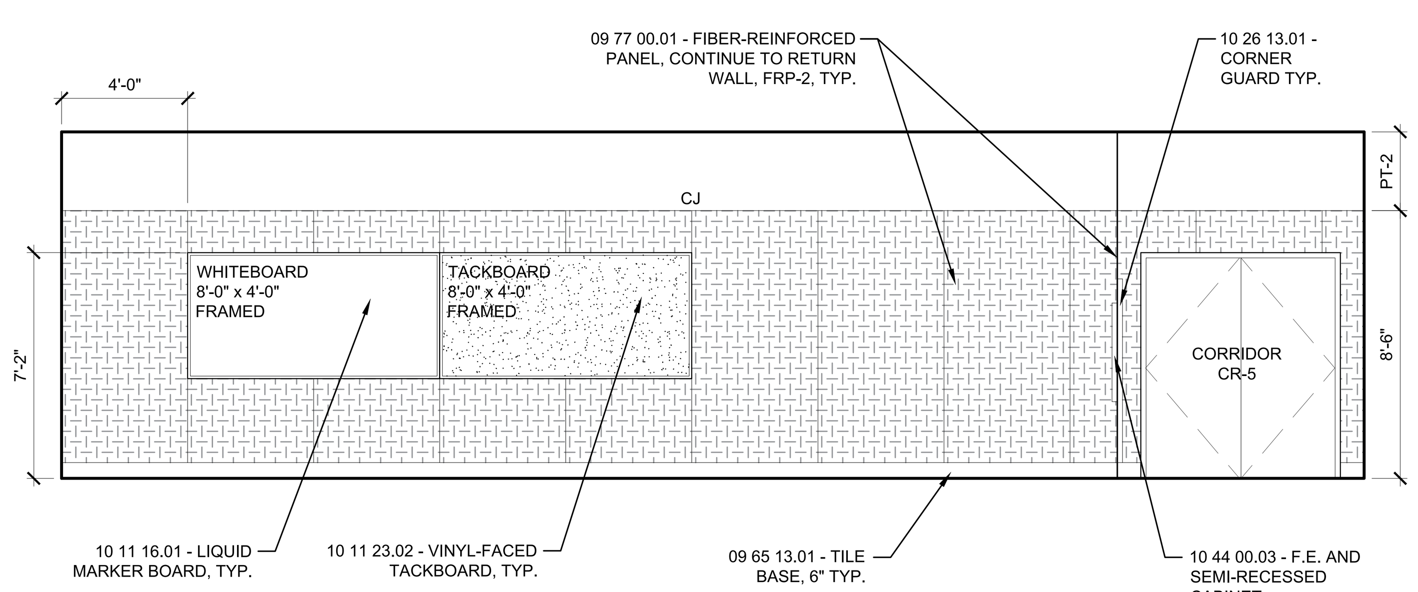
E6 CAREER CENTER
SCALE: 1/4" = 1'-0" ROOM 133



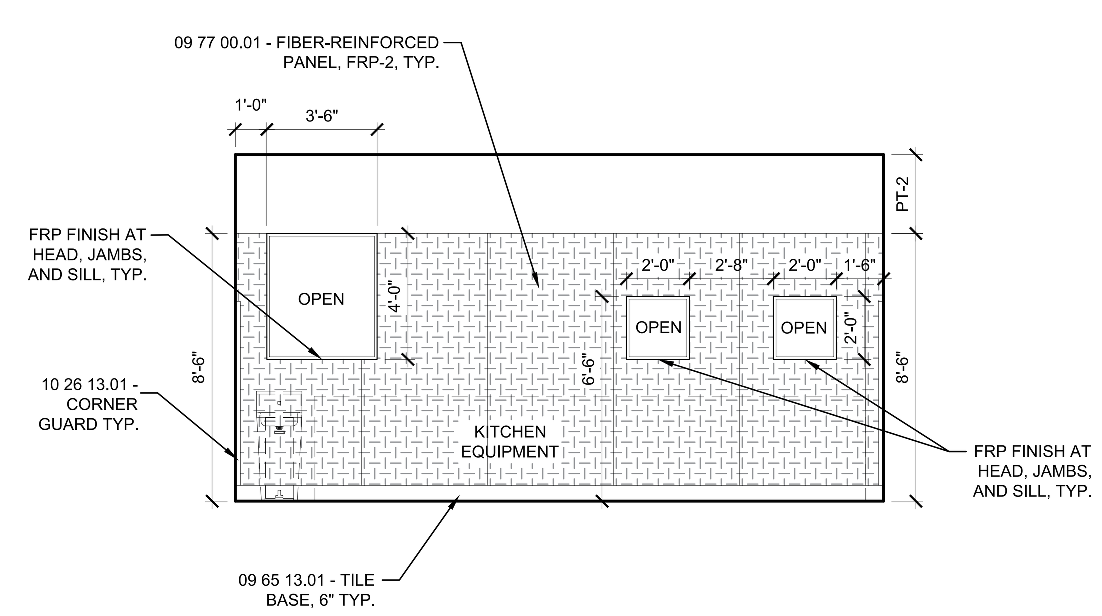
E10 CAREER CENTER
SCALE: 1/4" = 1'-0" ROOM 133



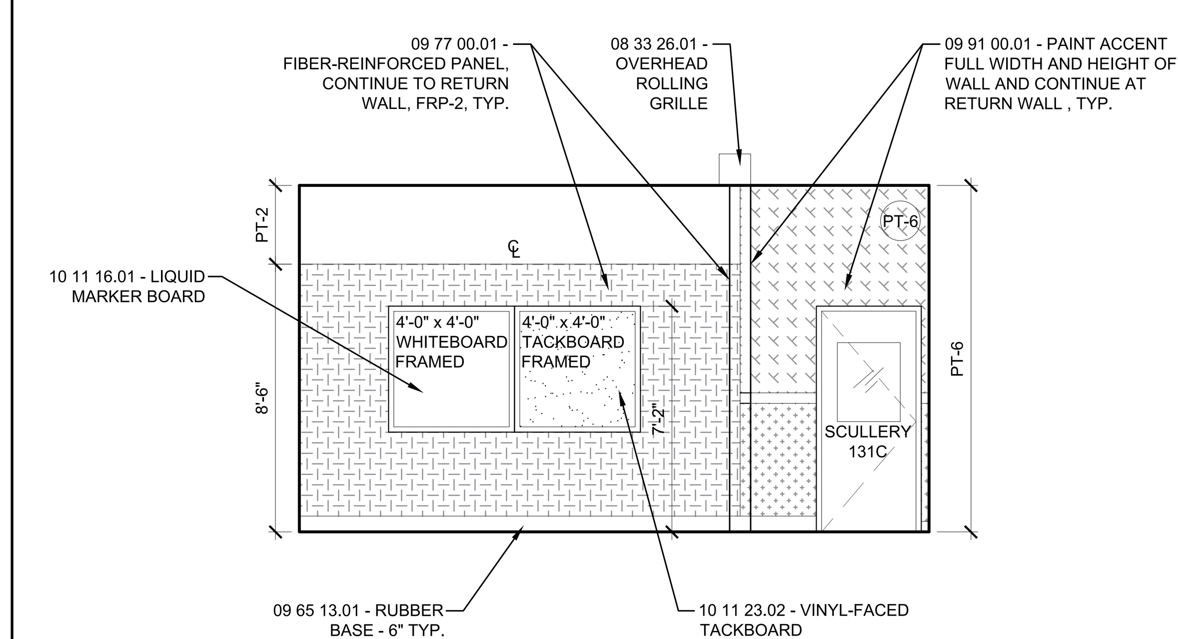
C1 KITCHEN 131
SCALE: 1/4" = 1'-0" ROOM 131



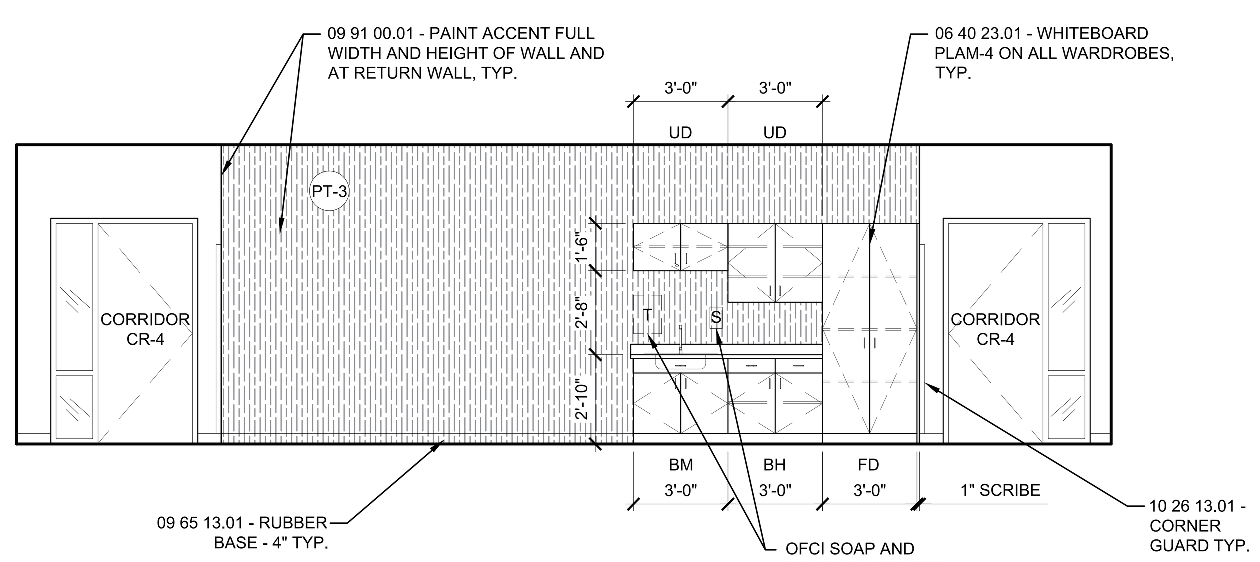
C3 KITCHEN 131
SCALE: 1/4" = 1'-0" ROOM 131



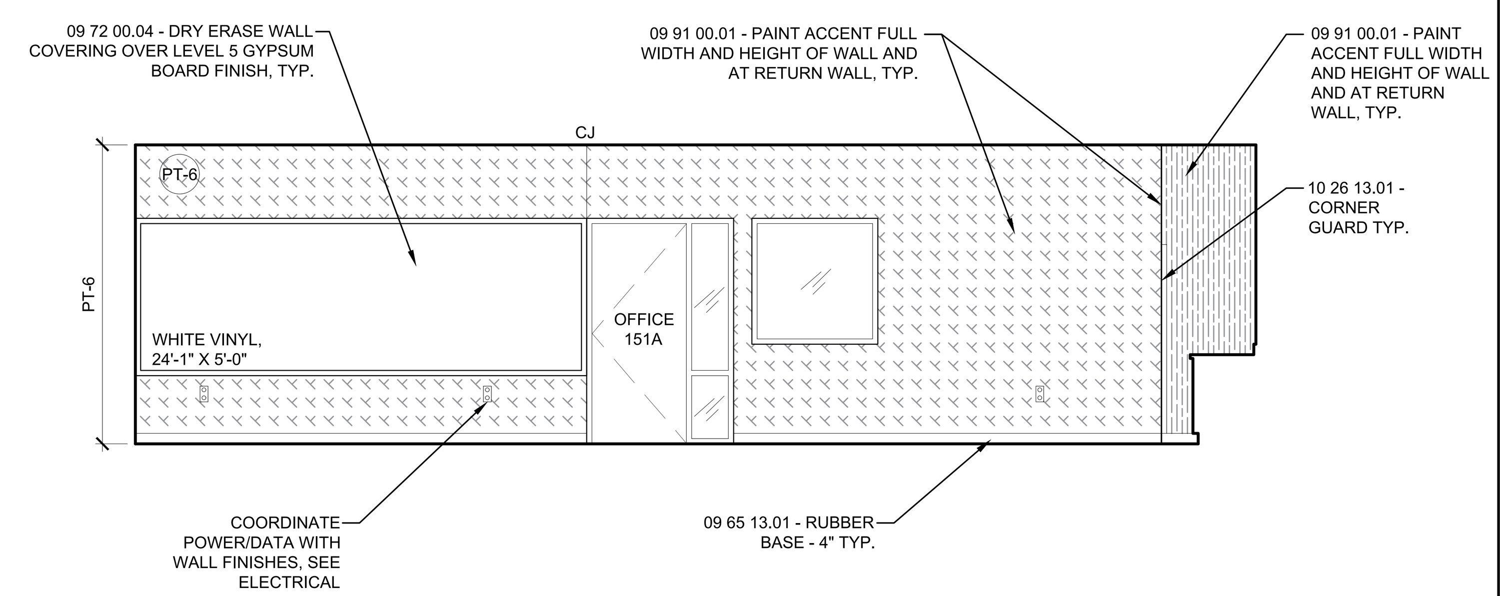
C7 KITCHEN 131
SCALE: 1/4" = 1'-0" ROOM 131



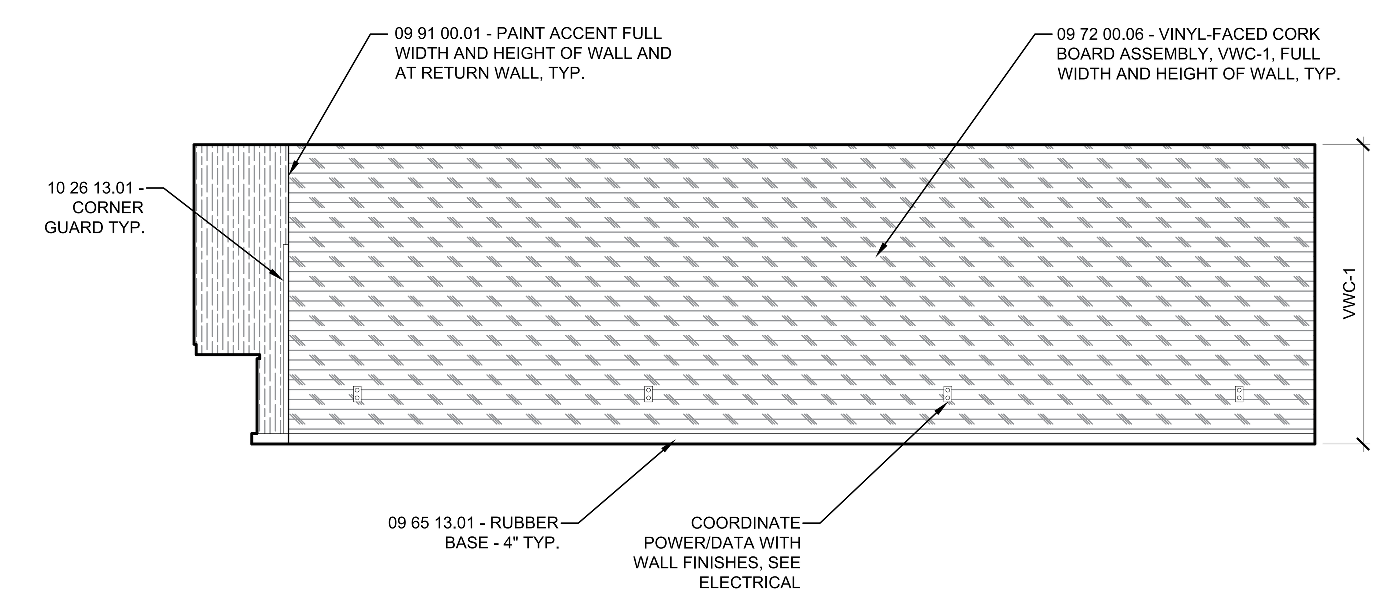
C10 SERVING 131D
SCALE: 1/4" = 1'-0" ROOM 131D



A1 TECH CENTER
SCALE: 1/4" = 1'-0" ROOM 151



A5 TECH CENTER
SCALE: 1/4" = 1'-0" ROOM 151



A9 TECH CENTER
SCALE: 1/4" = 1'-0" ROOM 151

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REVISIONS

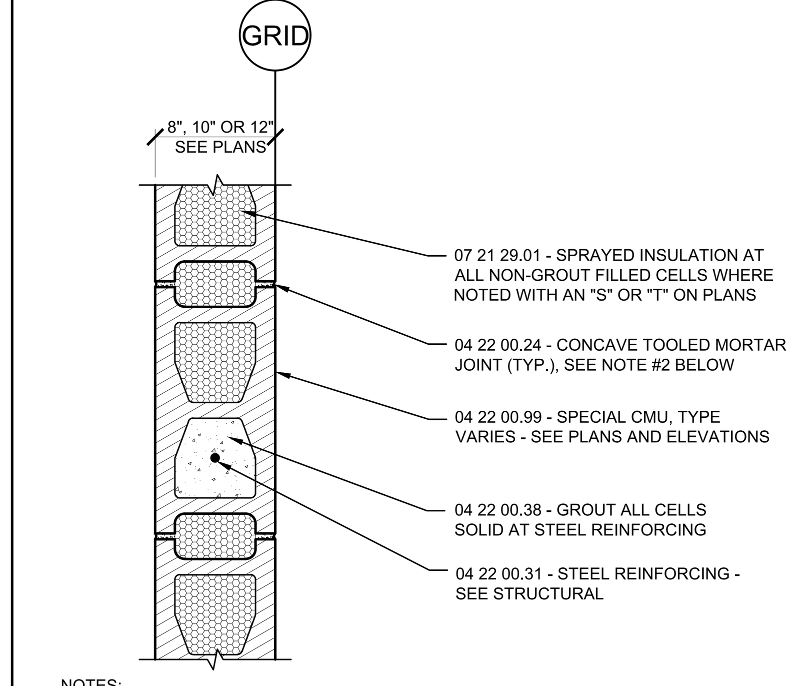
PASCO SCHOOL DISTRICT #1

REGISTERED ARCHITECT 9354 BRANDON D. WILM STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023
SHEET NAME: INTERIOR ELEVATIONS
SHEET: A7.22

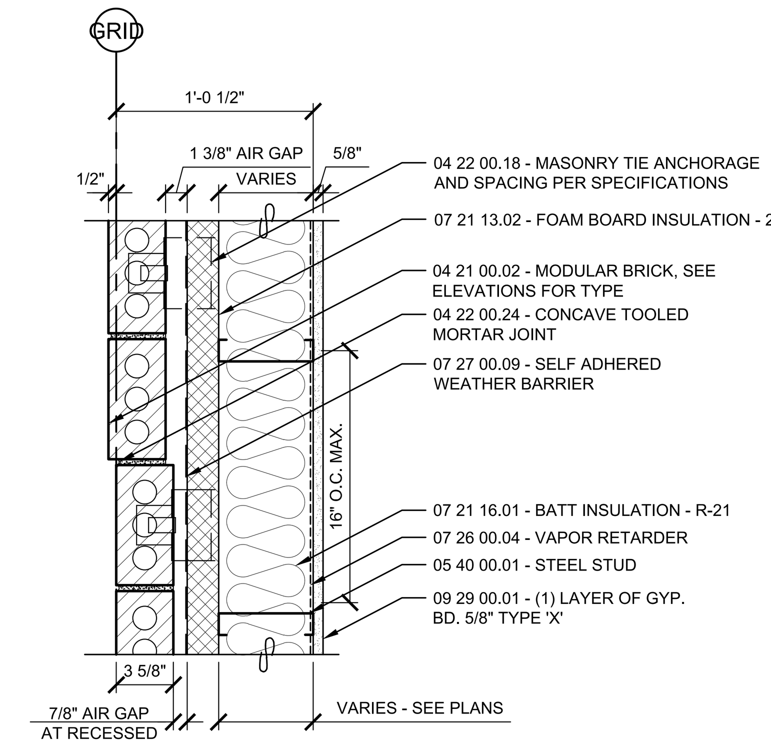
N.1 EXTERIOR WALL ASSEMBLY



NOTES:
1. WALL ASSEMBLY IS TO BE FULL HEIGHT TO UNDERSIDE OF DECK ABOVE UNO.
2. PROVIDE HORIZONTAL & VERTICAL RAKE PER INTERIOR AND EXTERIOR ELEVATIONS.
3. PROVIDE BULLNOSE CORNER AT EXPOSED INTERIOR.

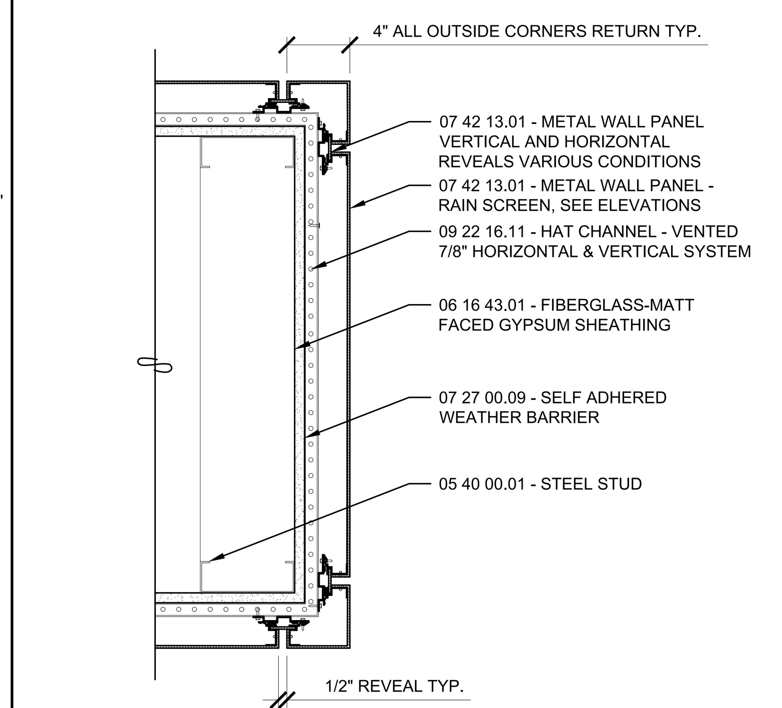
N.1 EXTERIOR WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" EXT WALL ASSEM 03

N.2 EXTERIOR WALL ASSEMBLY



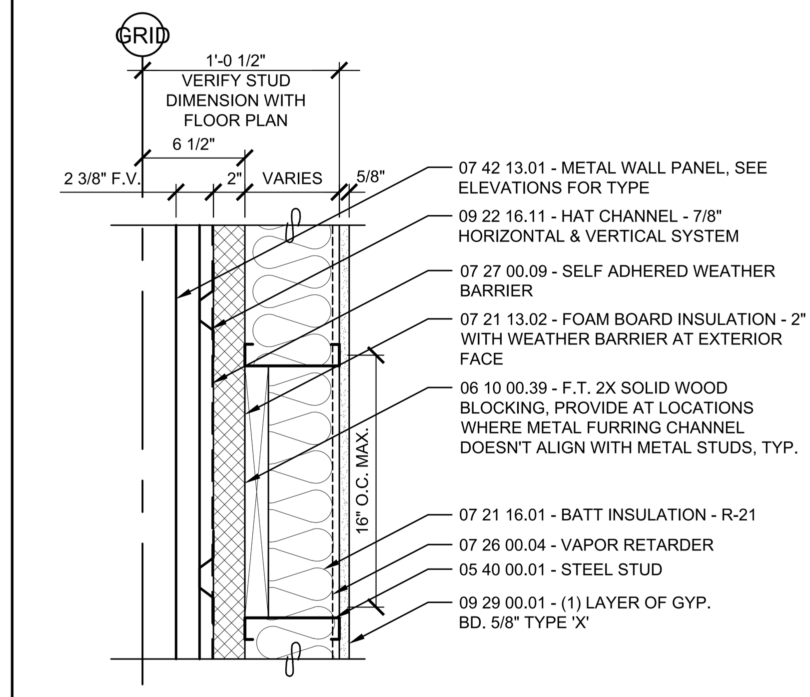
N.2 EXTERIOR WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" EXT WALL ASSEM 01

N.3 EXTERIOR WALL ASSEMBLY



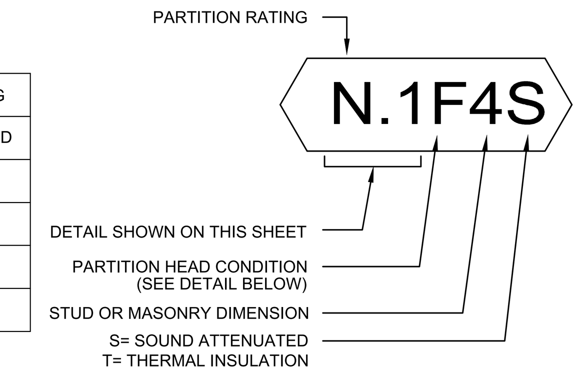
N.3 EXTERIOR WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" EXT WALL ASSEM 02

N.4 EXTERIOR WALL ASSEMBLY



N.4 EXTERIOR WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" METAL WALL ASSEM 01

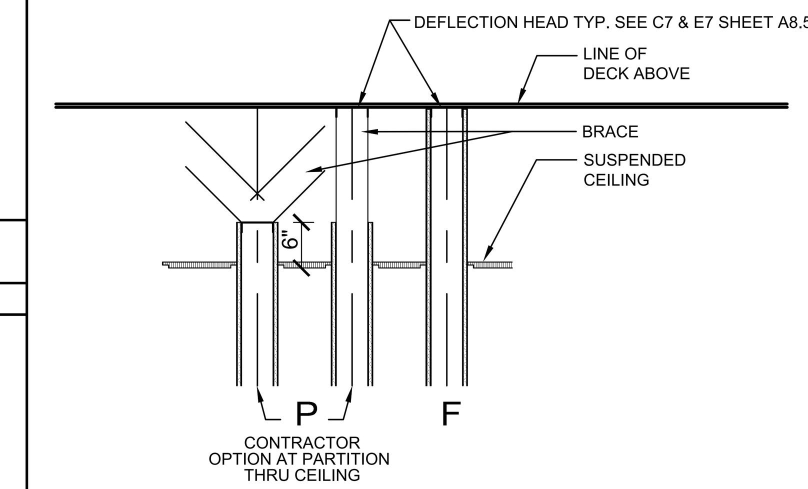
E11 PARTITION HEAD TYPES



PARTITION RATING	
N	NON RATED
1	1 HOUR
2	2 HOUR
3	3 HOUR
4	4 HOUR

NOTE:
SOUND ATTENUATED CONDITION DEFINED BY "S" REQUIRES ACOUSTICAL INSULATION IN ALL WALL VOIDS & ACOUSTICAL SEALANT AT TOP/BOTTOM & EDGES OF WALL CONSTRUCTION AND PER GA-600-2006 FIRE RESIST. DESIGN MANUAL, SECTION III.

REFERENCE DETAILS: A9, A11, C9, C11, E9, E11, G9 AND G11 ON SHEET A8.50.

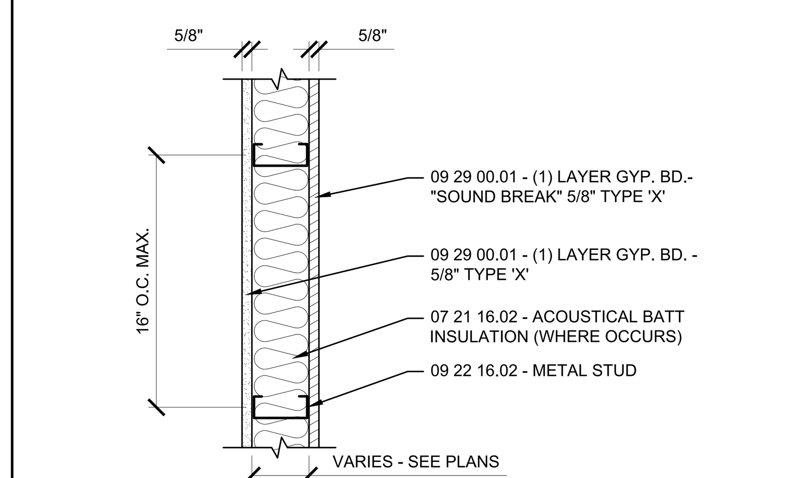


	STUD DIMENSION	ACOUSTIC INSUL	THERMAL INSUL	MISC.
0	7/8" HAT CHANNEL	DETAIL SPECIFIC	DETAIL SPECIFIC	
1	1 5/8"	1" UNO.	1" UNO.	
2	2 1/2"	2 1/2" UNO.	2 1/2" UNO.	
3	3 5/8"	3" UNO.	3 1/2" UNO.	TYP UNO
4	4"	3" UNO	3 1/2" R11 UNO	
6	6"	3" UNO.	5 1/2" R21 UNO.	
8	8"	3" UNO.	5 1/2" R21 UNO.	
10	10"	4 1/2" UNO.	5 1/2" R21 UNO.	
12	12"	4 1/2" UNO.	5 1/2" R21 UNO.	

NOTE: INSTALL TYPE "X" GYPSUM BOARD AT ALL LOCATIONS AND PARTITION TYPES.

E11 PARTITION HEAD TYPES
SCALE: 1" = 1'-0" INT PARTITION HEAD TYPES

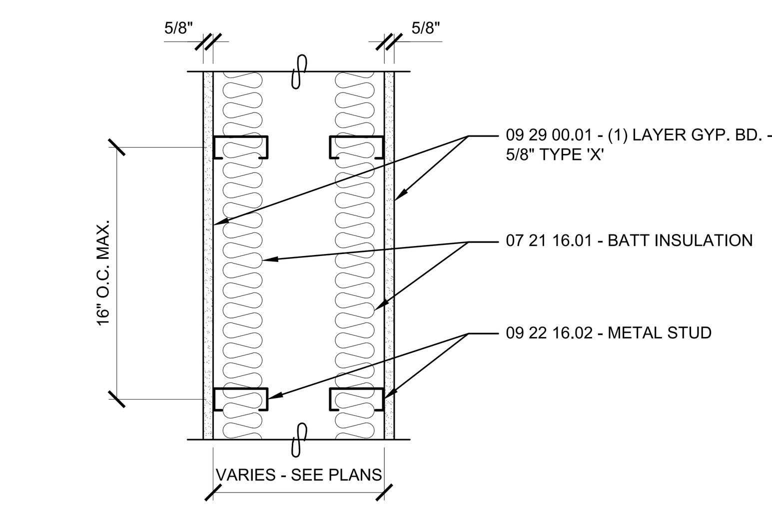
N.5 NON-RATED WALL ASSEMBLY



NOTES:
1. AT WALL IN-FILL LOCATIONS, MATCH ADJACENT WALL THICKNESS AND ALIGN WALL FACES FOR SMOOTH TRANSITION.
2. INSTALL ALL REQUIRED BACKING PRIOR TO INSTALLATION OF GYP. BD., TYP.
3. WALL ASSEMBLY IS TO BE FULL HEIGHT TO UNDERSIDE OF DECK ABOVE U.N.O.
4. PROVIDE ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF SOUND WALL ASSEMBLY (SILL, HEAD, JAMB), TYP.

N.5 NON-RATED WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" INT WALL ASSEM NR-01

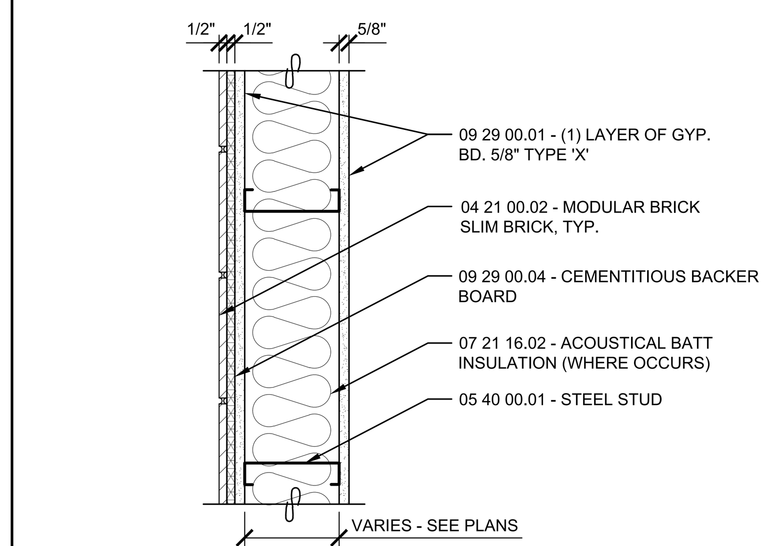
N.6 NON-RATED WALL ASSEMBLY



NOTES:
1. AT WALL IN-FILL LOCATIONS, MATCH ADJACENT WALL THICKNESS AND ALIGN NEW WALL FACES FOR SMOOTH TRANSITION.
2. INSTALL ALL REQUIRED BACKING PRIOR TO INSTALLATION OF GYP. BD. TYPICAL.
3. WALL ASSEMBLY IS TO BE FULL HEIGHT TO UNDERSIDE OF DECK ABOVE UNO.

N.6 NON-RATED WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" INT WALL ASSEM NR-02

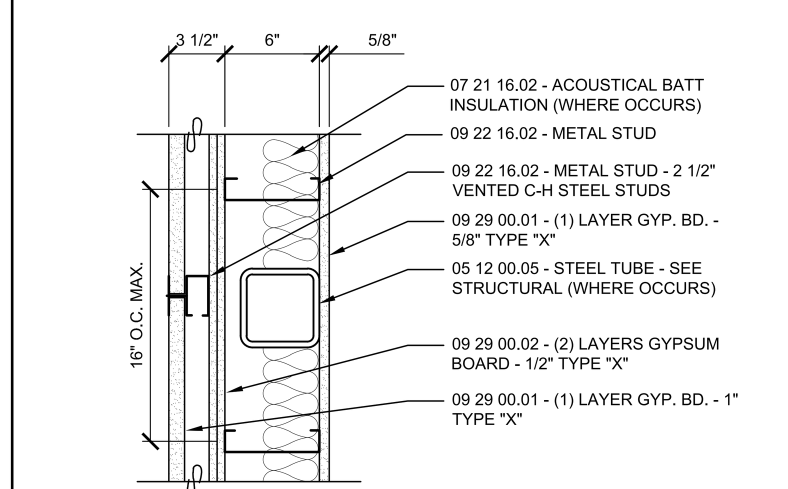
N.7 INTERIOR WALL ASSEMBLY



NOTES:
1. AT WALL IN-FILL LOCATIONS, MATCH ADJACENT WALL THICKNESS AND ALIGN NEW WALL FACES FOR SMOOTH TRANSITION.
2. INSTALL ALL REQUIRED BACKING PRIOR TO INSTALLATION OF GYP. BD., TYP.
3. WALL ASSEMBLY IS TO BE FULL HEIGHT TO UNDERSIDE OF DECK ABOVE U.N.O.

N.7 INTERIOR WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" INT WALL ASSEM NR-04

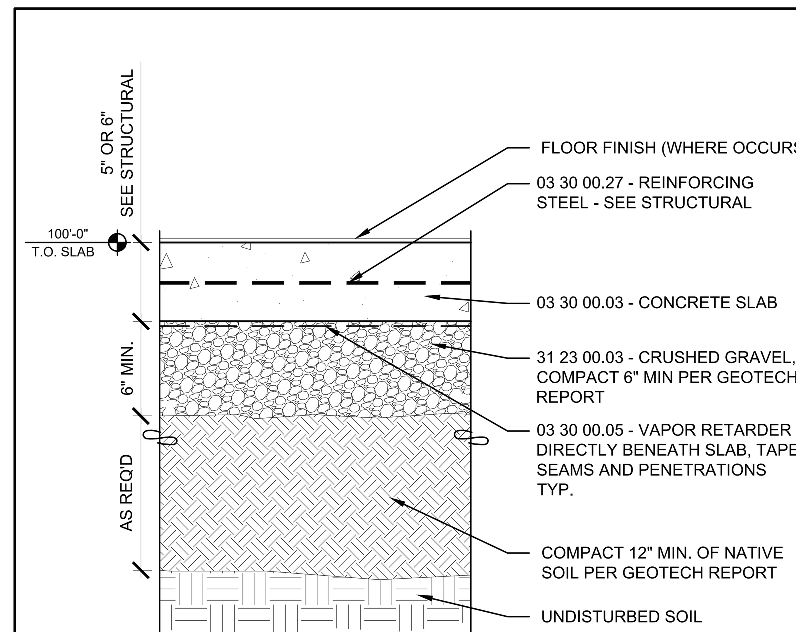
2.1 2-HR RATED WALL ASSEMBLY



2-HOUR WALL: GA FILE NO. WP7051
ONE LAYER 1" x 24" PROPRIETARY TYPE "X" GYPSUM PANELS INSERTED BETWEEN 2 1/2" FLOOR AND CEILING J RUNNERS WITH T SECTION OF 2 1/2" STEEL C-H OR C-T STUDS BETWEEN PANELS. BASE LAYER 1/2" PROPRIETARY TYPE "X" GYPSUM WALLBOARD APPLIED AT RIGHT ANGLE TO STUDS WITH 1" TYPE "S" DRYWALL SCREWS 24" O.C. FACE LAYER 1/2" PROPRIETARY TYPE "X" GYPSUM WALLBOARD APPLIED PARALLEL TO STUDS WITH 1 5/8" TYPE "S" DRYWALL SCREWS 12" O.C. JOINTS OFFSET 24" O.C.

2.1 2-HR RATED WALL ASSEMBLY
SCALE: 1 1/2" = 1'-0" WALL ASSEM 2 HR-01

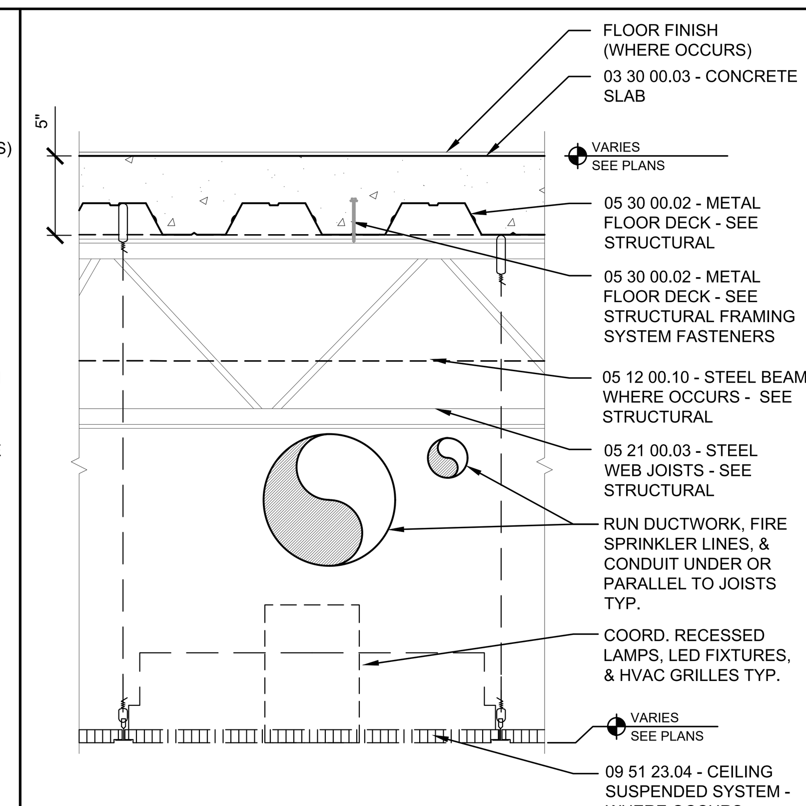
S-1 SLAB ASSEMBLY



NOTES:
1. SEE STRUCTURAL FOR VARYING SLAB REINFORCEMENT AND RECESSED LOCATIONS.
2. COORDINATE SLOPED SLAB AND FLOOR DRAIN LOCATIONS AS NOTED.

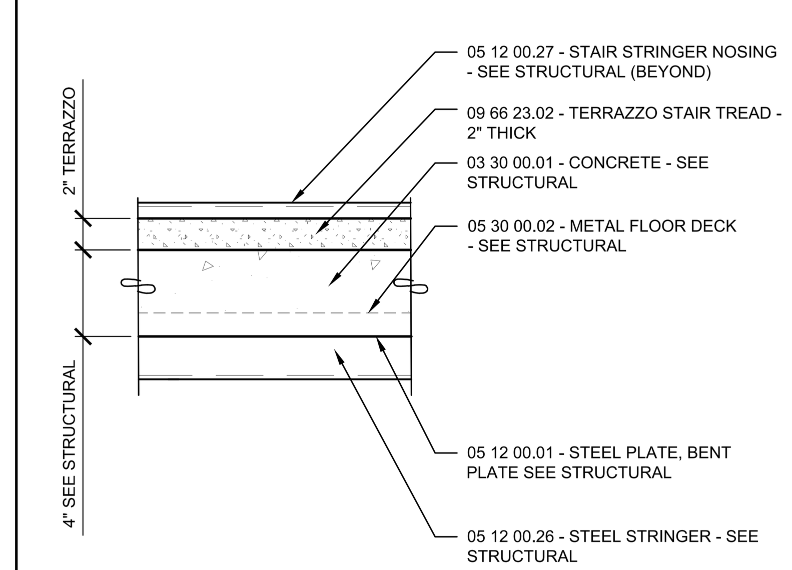
S-1 SLAB ASSEMBLY
SCALE: 1 1/2" = 1'-0" SLAB ASSEM 01

F-1 FLOOR ASSEMBLY



F-1 FLOOR ASSEMBLY
SCALE: 1 1/2" = 1'-0" FLOOR ASSEM 01

F-2 STAIR LANDING



F-2 STAIR LANDING
SCALE: 1 1/2" = 1'-0" STAIR LANDING 01

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12/18/23

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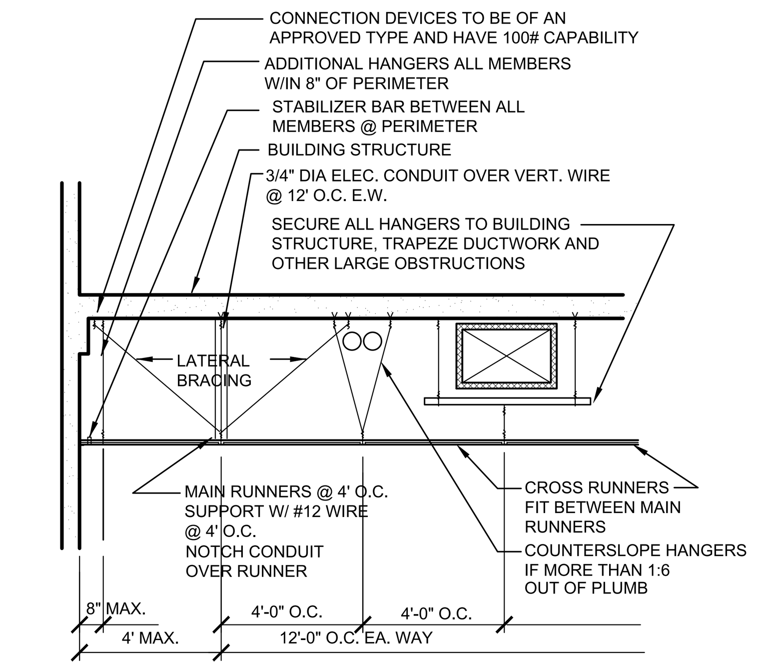
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
ASSEMBLIES

SHEET
A8.00



LATERAL BRACING @ 12" O.C. EACH WAY. MAIN RUNNER TO STRUCTURE. BEGIN BRACING WITHIN 4' OF PERIMETER & 2" FROM CROSS MEMBER.

GENERAL INSTALLATION REQUIREMENTS - ASTM C 635 & ASTM 636

(a) HANGERS
1) HANGERS TO BE A MIN. OF #12-GA., GALVANIZED, SOFT ANNEALED MILD STEEL WIRE @ 4' O.C. EACH WAY.
2) ATTACHMENT DEVICES TO BE OF AN APPROVED TYPE CAPABLE OF CARRYING 5 TIMES THE CEILING LOAD (#50).*
3) HANGERS TO BE PLUMB OR COUNTER SPLAYED AND NOT PRESSED AGAINST PIPE OR DUCT INSULATION.

(b) CARRYING CHANNELS
(c) MAIN RUNNERS
(g) CEILING FIXTURES
4) CARRYING CHANNELS AND MAIN RUNNERS ARE TO BE LEVEL W/N 1/8" IN 12", LEVELING IS TO BE PERFORMED W/ HANGERS TAUT, KINKS OR BENDS ARE NOT TO BE USED AS A WAY OF LEVELING.
5) DEFLECTION SHALL BE LIMITED TO 1/360 OR .133" (1/8") IN A 4' SPAN, IF THE FIXTURE CAUSES A DEFLECTION IN EXCESS OF 1/8", THE FIXTURE SHALL BE INDEPENDENTLY SUPPORTED OR THE GRID SHALL BE SUPPLEMENTALLY SUPPORTED W/N 6' OF EACH CORNER WITH A #12 WIRE.
6) A FIXTURE INSTALLATION SHALL NOT CAUSE THE RUNNERS TO ROTATED MORE THAN 2° FROM THE VERTICAL (THIS IS THE EQUIVALENT OF 1/2"FOR A STANDARD 1" TEE.)

*SEE LATERAL BRACING REQUIREMENTS THAT FOLLOW FOR MORE RESTRICTIVE REQUIREMENTS.

LATERAL BRACING REQUIREMENTS IN LIEU OF ENGINEERED DESIGN (APPLICABLE ONLY TO STANDARD 2' x 2' AND 2' X 4' GRIDS WHEN NOT SUPPORTING PARTITIONS.)

(a) VERTICAL HANGERS
1) HANGERS TO BE A MINIMUM OF #12 GA., GALVANIZED, SOFT ANNEALED MILD STEEL WIRE @ 4' O.C. EACH WAY, HANGERS TO BE ATTACHED TO SUSPENSION MEMBERS & TO THE SUPPORT ABOVE WITH A MINIMUM OF THREE TURNS, HANGERS SHALL NOT ATTACH TO OR BEND AROUND OTHER MATERIAL OR EQUIPMENT AND SHALL NOT BE MORE THAN 1" IN 6" OUT OF PLUMB WITHOUT BEING COUNTERED SPLAYED.
2) ALL CONNECTING DEVICES SHALL BE OF AN APPROVED TYPE CAPABLE OF SUPPORTING 100#'S AND BE SECURED TO THE BUILDING STRUCTURE.
3) A TRAPEZE OR EQUIVALENT SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT ATTACHMENT TO THE STRUCTURE. TRAPEZE SUSPENSIONS SHALL BE A MINIMUM OF BACK TO BACK 1" COLD ROLLED CHANNELS WHEN SPANS EXCEED 48".

(b) PERIMETER HANGERS
4) ALL RUNNERS SHALL BE INDEPENDENTLY SUPPORTED AT THE PERIMETER WITHIN 8" OF THE WALL OR CEILING DISCONTINUITY, THE WALL ANGLE OR CLOSURE STRIP SHALL NOT BE ALLOWED FOR THIS PURPOSE.

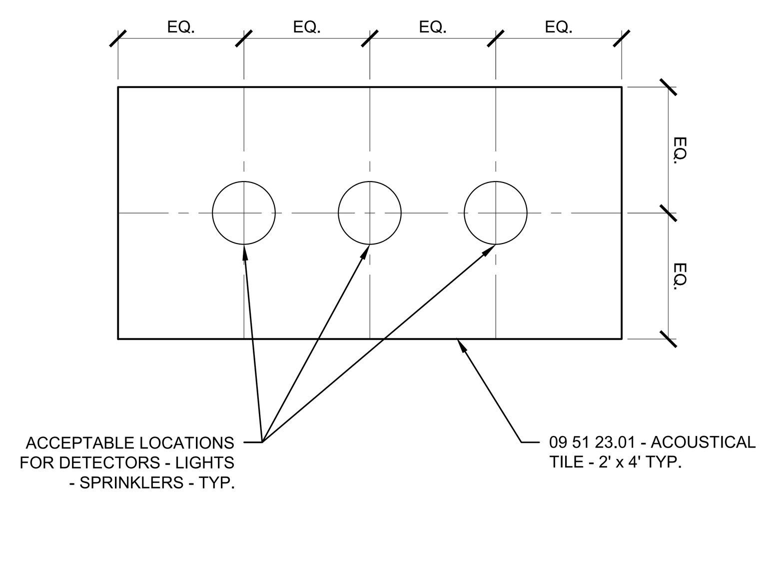
(c) LATERAL BRACING
(5) WITHIN 4' OF THE WALLS AND AT 12' O.C. IN EACH DIRECTION, 4-#12 GA. WIRES SHALL BE CONNECTED WITHIN 2" OF AN INTERSECTION OF A MAIN RUNNER AND SPLAYED 90^ FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45^ FROM THE PLANE OF THE CEILING.

(d) PERIM. MEMBERS
(e) ATTACHMENT TO PERIM. MEMBERS
(6) MEMBERS PERPENDICULAR TO THE WALL SHALL BE TIED TOGETHER (STABILIZED) TO PREVENT THEIR SPREADING. THIS SHALL BE DONE IMMEDIALELY ADJACENT AND PARALLEL TO THE WALL. THE WALL OR CLOSURE ANGLE SHALL NOT BE USED FOR THIS PURPOSE ALTHOUGH TO FACILITATE INSTALLATION, RUNNERS MAY BE ATTACHED TO THE CLOSURE ANGLE AT TWO ADJACENT WALLS WITH CLEARANCES BEWTEEN THE WALL AND THE RUNNER BEING MAINTAINED AT THE OTHER TWO WALLS.
*(7) ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE FIXTURE WEIGHT IN ANY DIRECTION.

(f) LIGHT FIXTURES
(8) ONLY INTERMEDIATE-DUTY AND HEAVY-DUTY SUSPENSION SYSTEMS SHALL BE USED TO SUPPORT LIGHT FIXTURES. (IF A LIGHT DUTY SYSTEM IS USED THE FIXTURES MUST BE INDEPENDENTLY SUPPORTED AT EACH CORNER WITH A #12-GA. HANGER.) WITH INTER-MEDIATE-DUTY SUSPENSION SYSTEMS, THE GRID MEMBERS SHALL HAVE SUPPLEMENTAL SUPPORT WITHIN 3" OF EACH CORNER OF THE FIXTURE WITH A #12 GA. HANGER WHERE HEAVY-DUTY SUSPENSION SYSTEMS ARE USED, SUPPLEMENTAL SUPPORT IS REQUIRED.
(9) IN ADDITION TO THE ABOVE, FIXTURES OR OTHER EQUIP-MENT WEIGHING MORE THAN 20# BUT LESS THAN 56# SHALL HAVE TWO #12 GA. WIRES FROM THE HOUSING TO THE STRUCTURE ABOVE OR TO OTHER HANGER WIRES. THESE WIRES MAY BE SLACK. FIXTURES OR OTHER EQUIPMENT WEIGHING IN EXCESS OF 56# SHALL BE INDEPENDENTLY SUPPORTEDD WITH #12 GA. WIRE AT EACH CORNER TO THE STRUCTURE ABOVE. PENDANT HUNG FIXTURES SHALL BE INDEPENDENTLY SUPPORTED W/ A MINIMUM OF ONE #9 GA. WIRE.

*THIS REQUIREMENT SATISFIES ARTICLE 410-15(c) OF THE NEC.

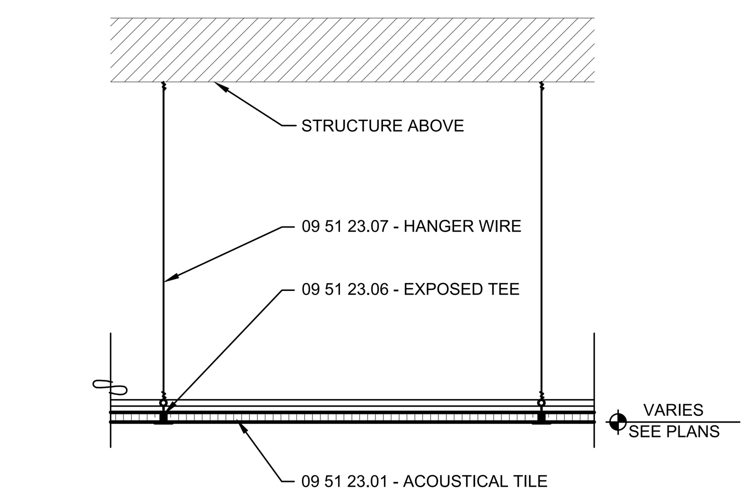
C1 LATERAL BRACING AT SUSP. CEILING
SCALE: N.T.S. — LATERAL BRACING



NOTE:

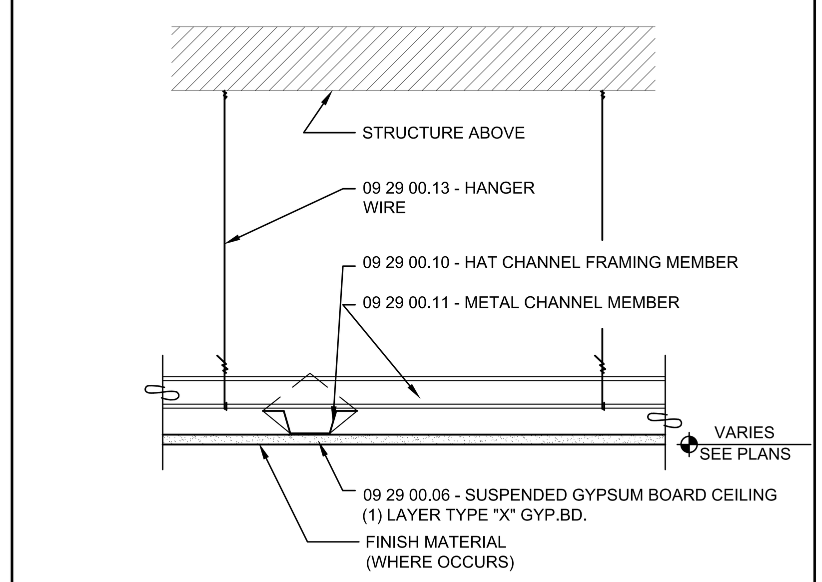
WHERE PENETRATION EXCEEDS 8" IN DIA., INSTALL RADIUSED EDGE METAL TO FIT PERIMETER OF HOLE AND CUT/SHAPE CEILING TILE IN TWO HALVES TO FIT AROUND AND CONCEAL PENETRATION.

G3 MOUNTING LOCATION IN ACT
SCALE: 1" = 1'-0" — CEILING GRID MOUNTING



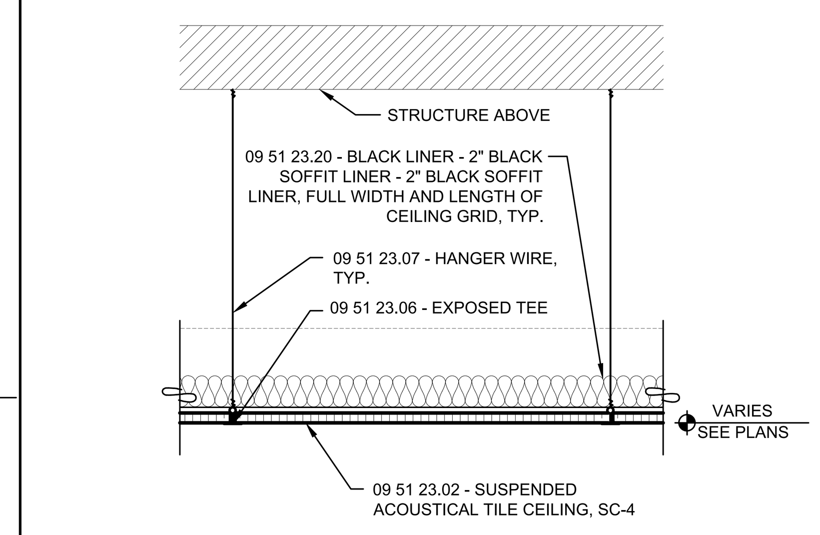
NOTE: SEE CEILING PLANS AND FINISH SCHEDULE FOR VARIOUS CEILING TYPES.

C-1 CEILING ASSEMBLY - ACT
SCALE: 1 1/2" = 1'-0" — CLNG ASSEM 01

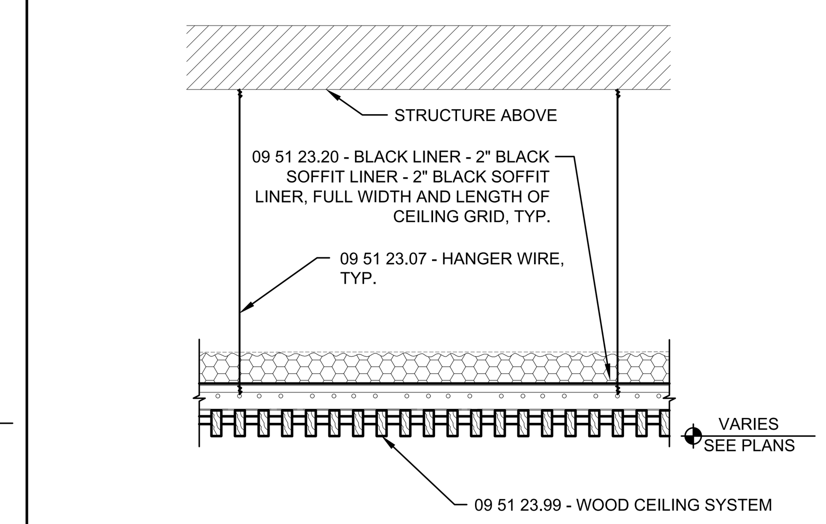


NOTE: CEILINGS & SOFFITS UNDER STAIRWAYS SHALL BE PROTECTED BY 1-HOUR FIRE RESISTANT CONSTRUCTION AS DEFINED BY 2018 IBC TABLE 721.1 (3) ITEM 6-4.1 USING (2) LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD.

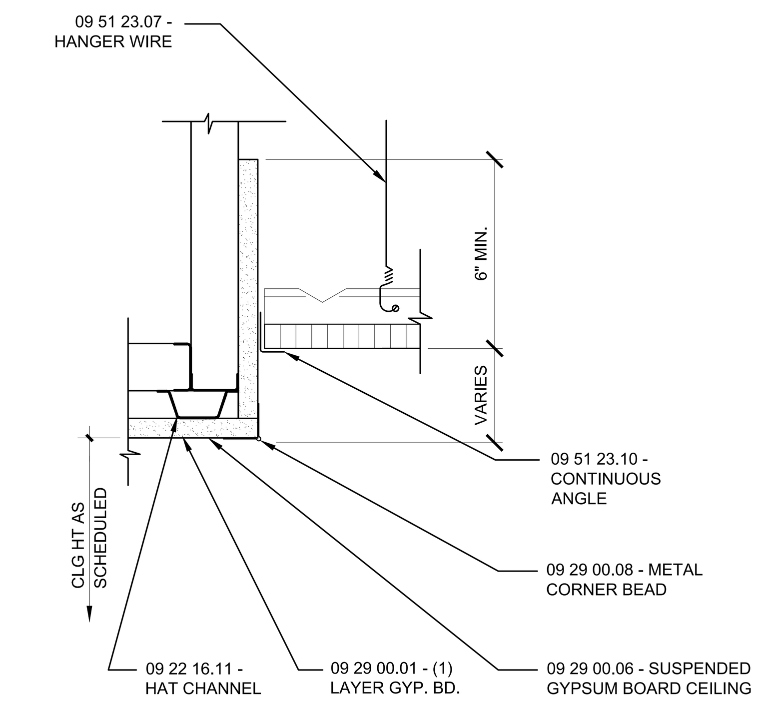
C-2 CEILING ASSEMBLY - GYP. BD
SCALE: 1 1/2" = 1'-0" — CLNG ASSEM 02



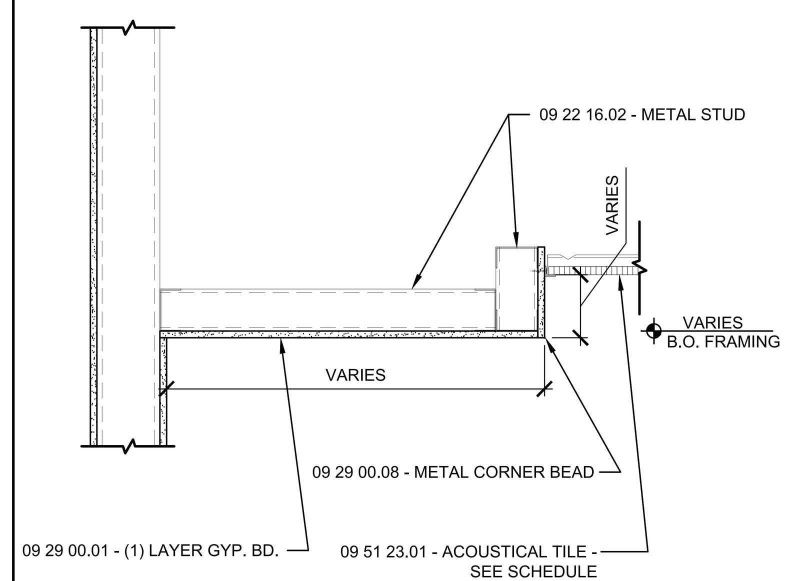
C-3 CEILING ASSEMBLY - ACT
SCALE: 1 1/2" = 1'-0" — CLNG ASSEM 03



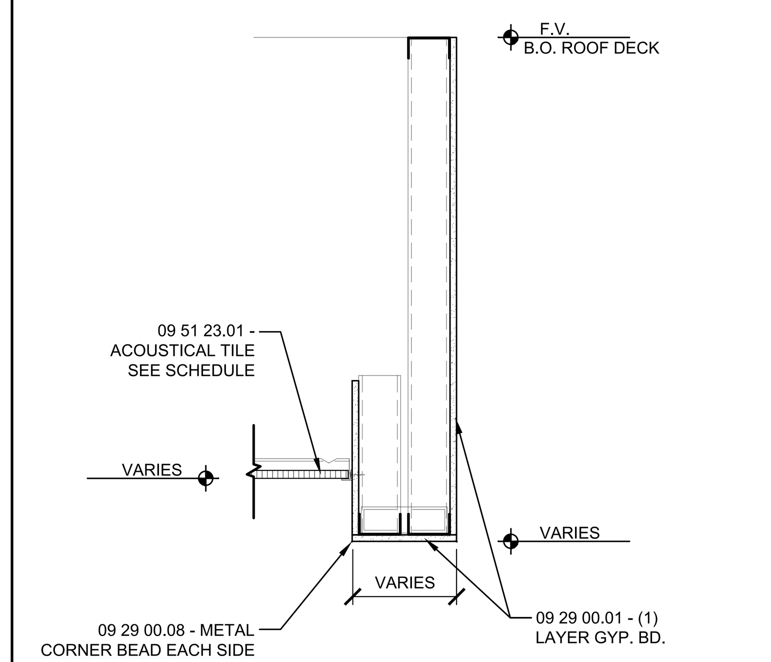
C-4 CEILING ASSEMBLY - WOOD PANEL
SCALE: 1 1/2" = 1'-0" — CLNG ASSEM 04



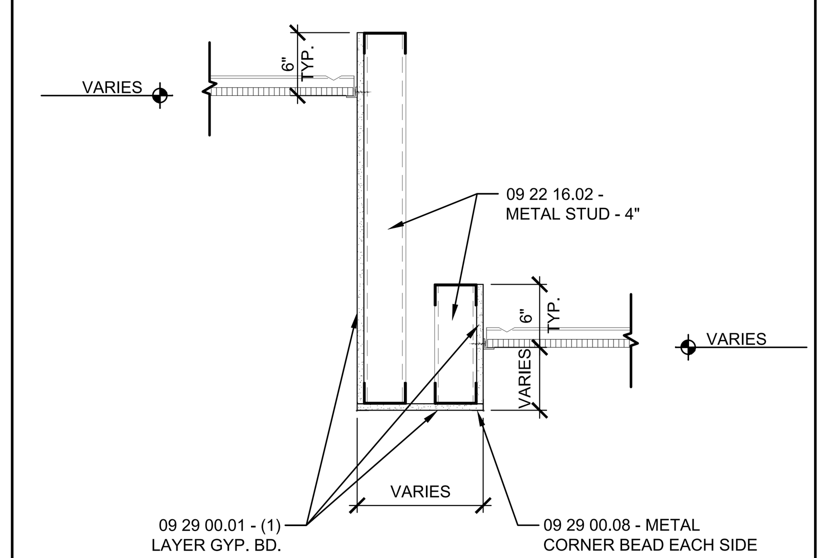
E3 GYP BD SOFFIT TRANS. TO ACT
SCALE: 3" = 1'-0" — CEILING SOFFIT



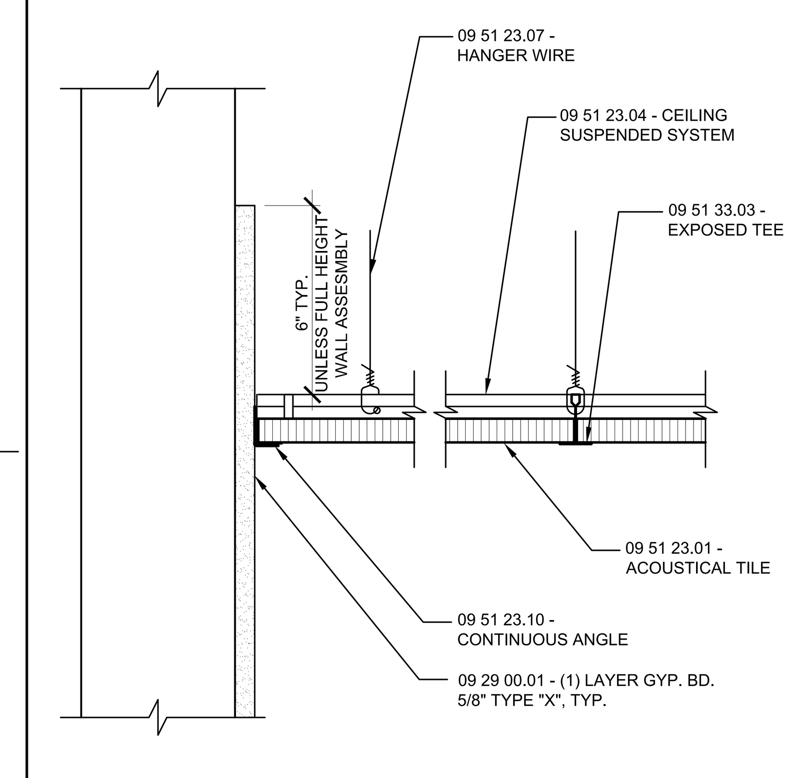
E5 CEILING DETAIL
SCALE: 1" = 1'-0" — SOFFIT 01



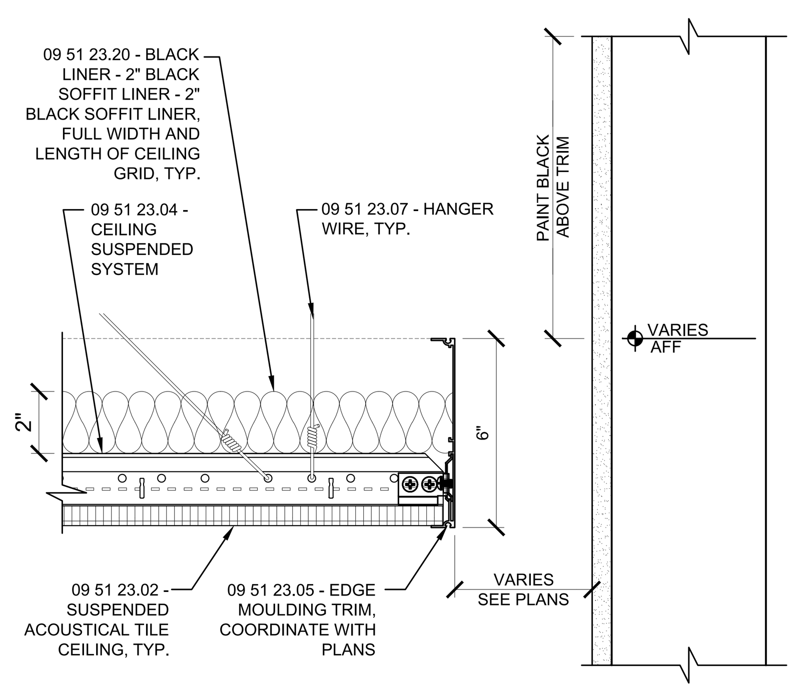
E7 CEILING DETAIL
SCALE: 1" = 1'-0" — TRANSITION TO DECK



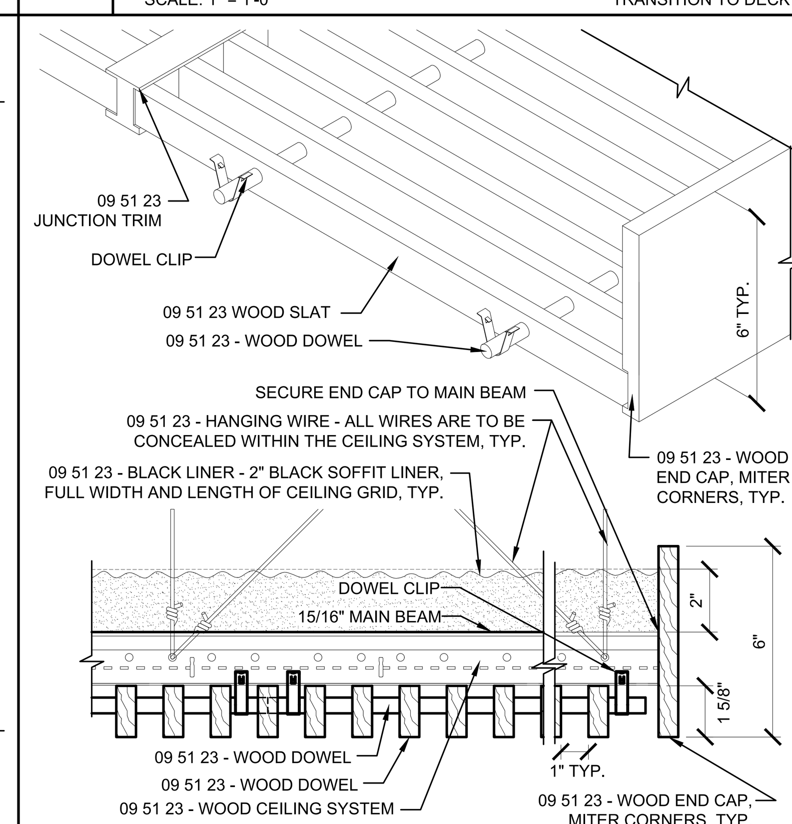
E9 CEILING DETAIL
SCALE: 1" = 1'-0" — CEILING TRANSITION



E11 ACT CEILING AT WALL
SCALE: 3" = 1'-0" — CEILING AT WALL

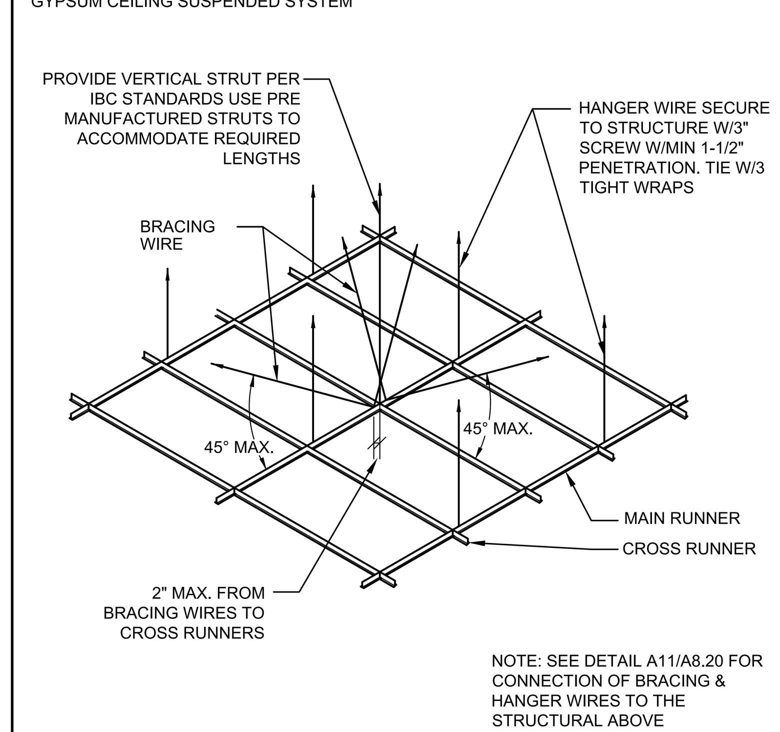


C5 ACT CEILING AT WALL
SCALE: 3" = 1'-0" — SUSPENDED CEILING



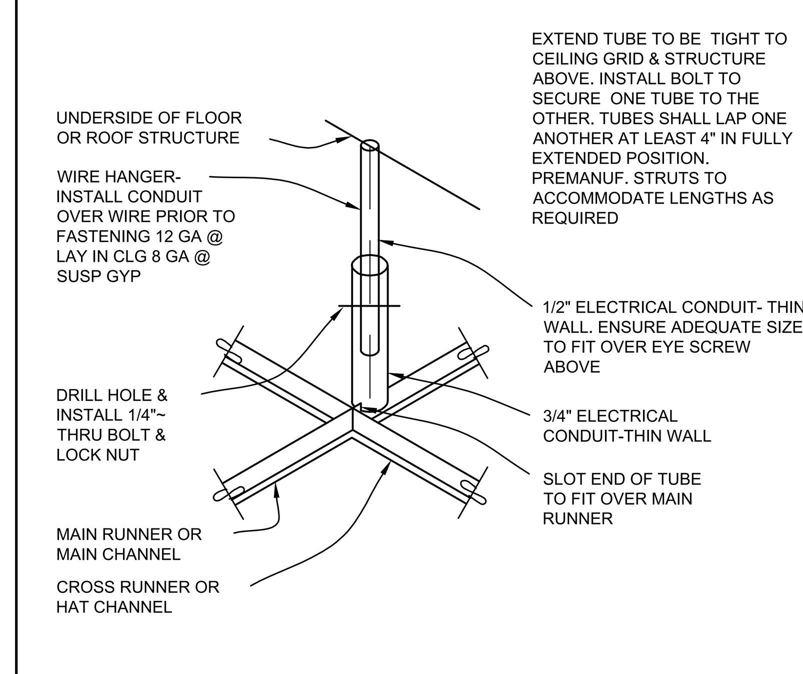
C7 SUSPENDED WOOD CEILING
SCALE: 3" = 1'-0" — WOOD CEILING

ACCEPTABLE ATTACHMENT FOR ACOUSTICAL CEILING GRID & GYPSUM CEILING SUSPENDED SYSTEM



NOTE: SEE DETAIL A11/A8.20 FOR CONNECTION OF BRACING & HANGER WIRES TO THE STRUCTURAL ABOVE

C9 SUSPENDED CEILING GRID DETAIL
SCALE: N.T.S. — CEILING GRID BRACING



C11 CEILING GRID STRUT
SCALE: N.T.S. — CEILING GRID STRUT

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JOB NUMBER
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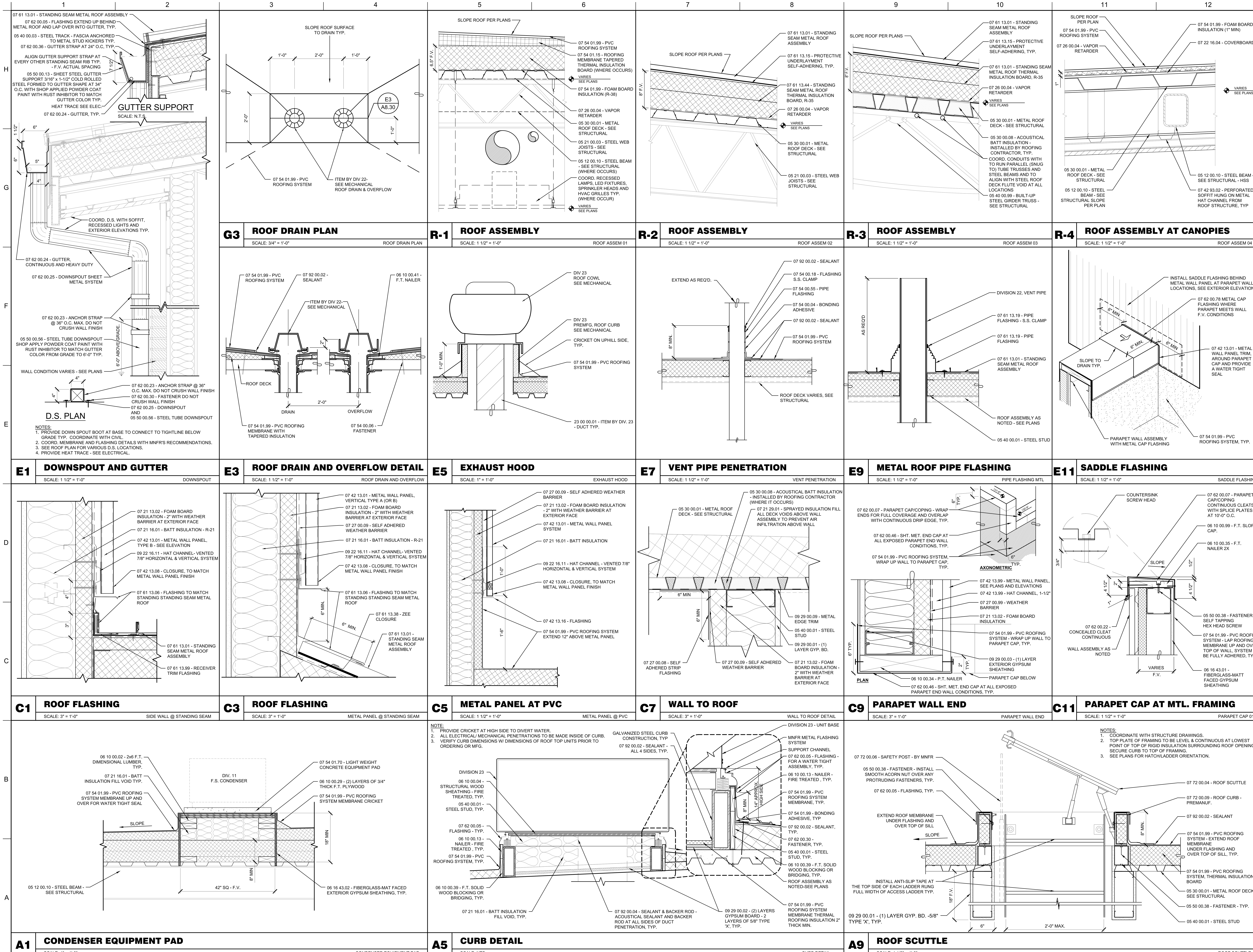
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
CEILING ASSEMBLIES

SHEET
A8.20



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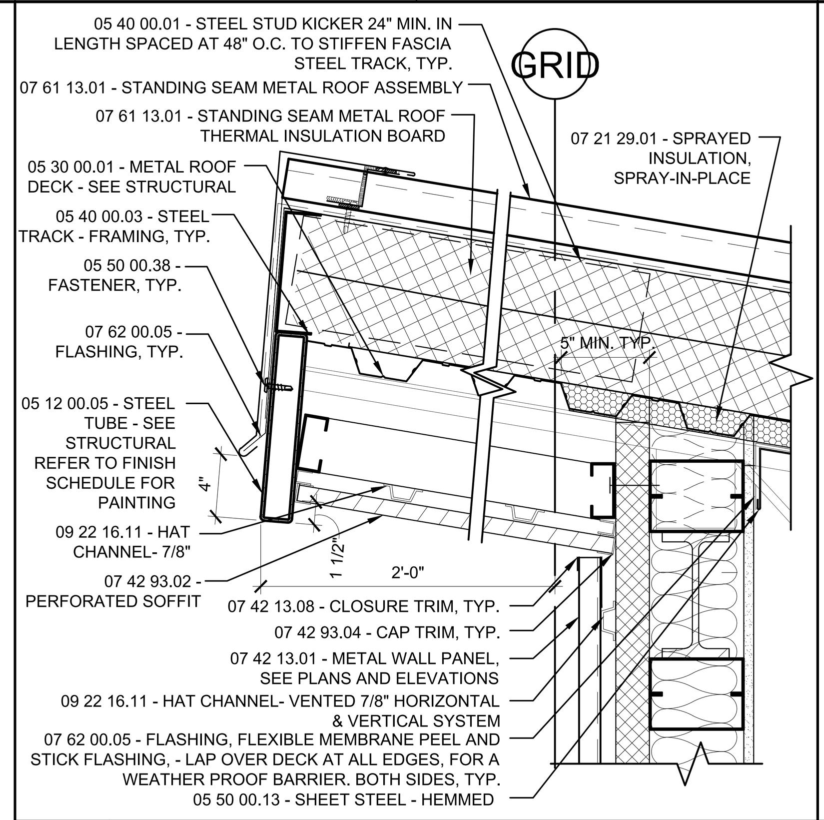
PASCO, WASHINGTON 99301

DATE
12/18/2023

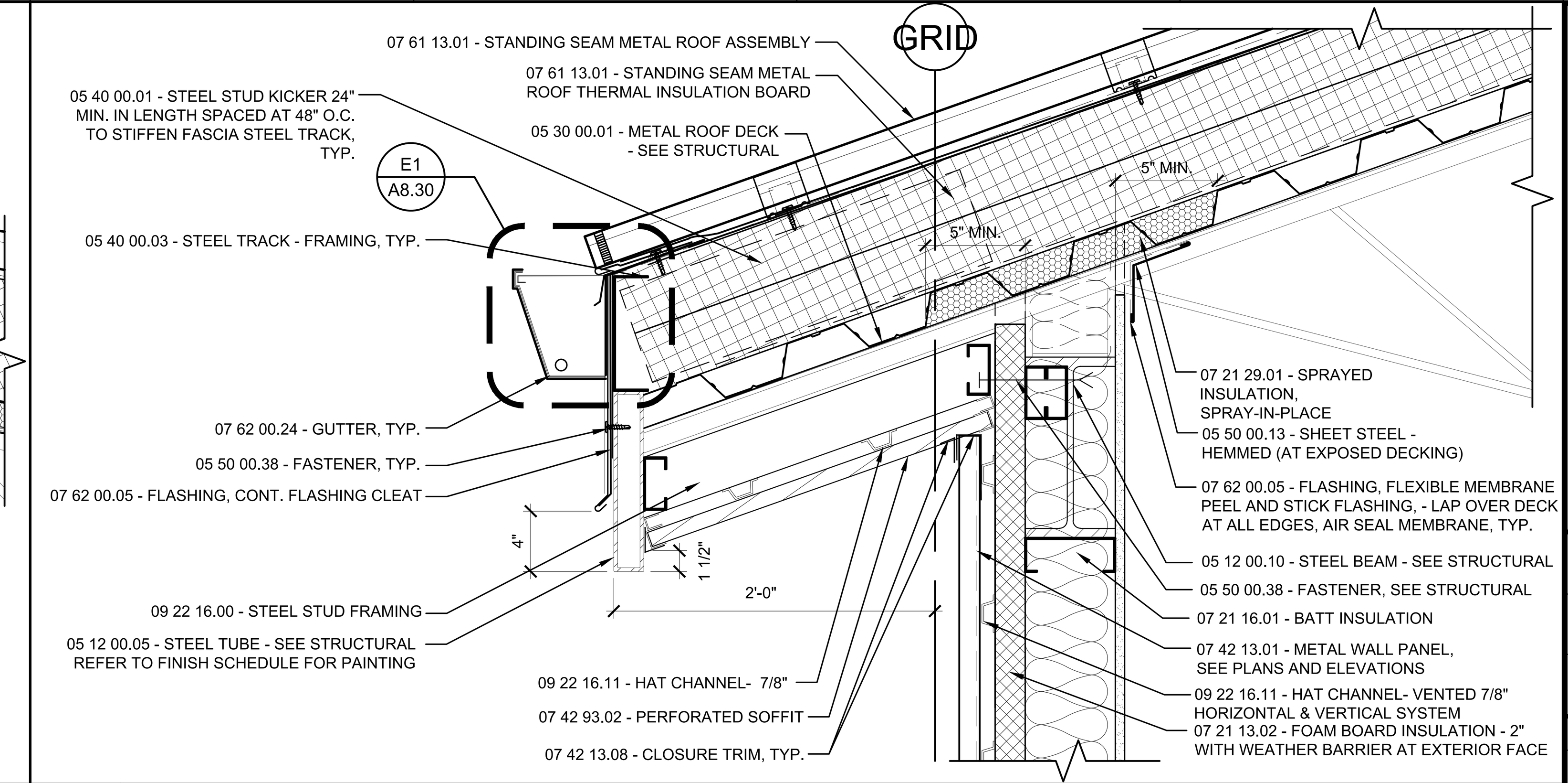
SHEET NAME
ROOF ASSEMBLIES

SHEET
A8.30



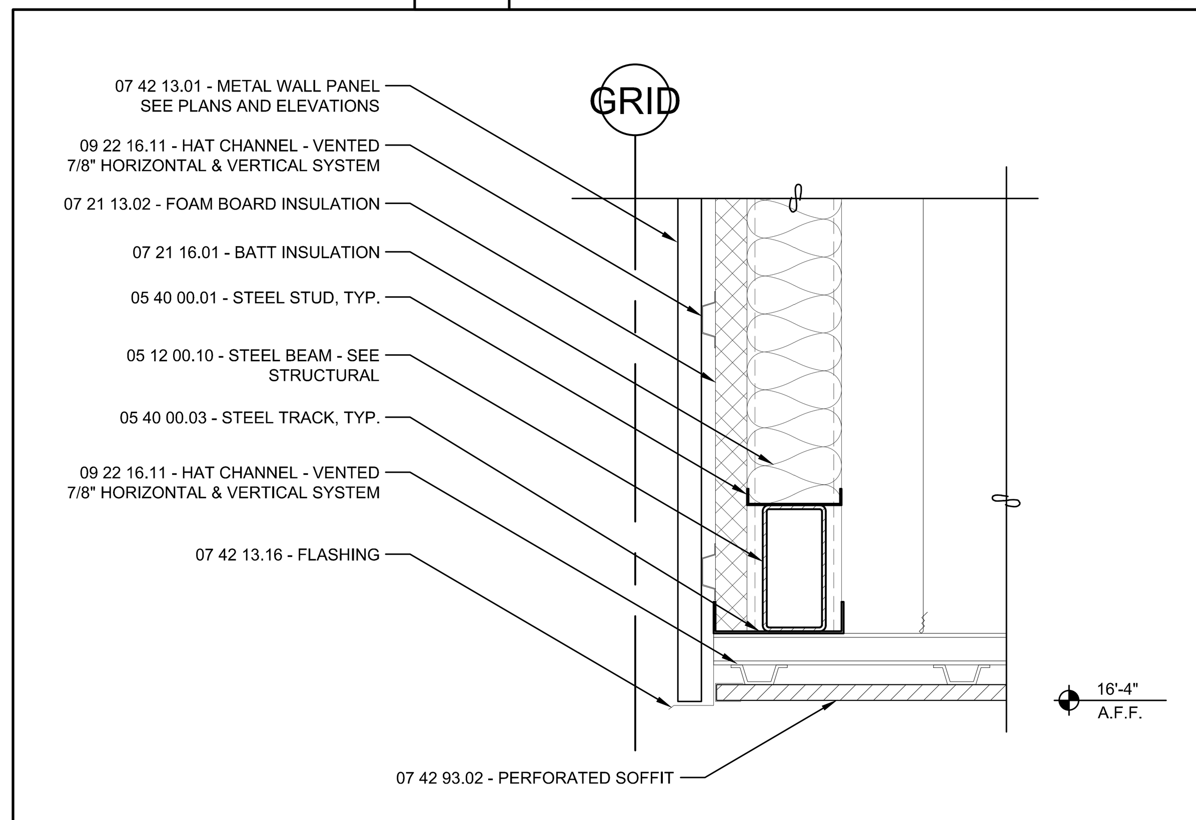
G7 EAVE DETAIL

SCALE: 1 1/2" = 1'-0" EAVE AT METAL PANEL 2



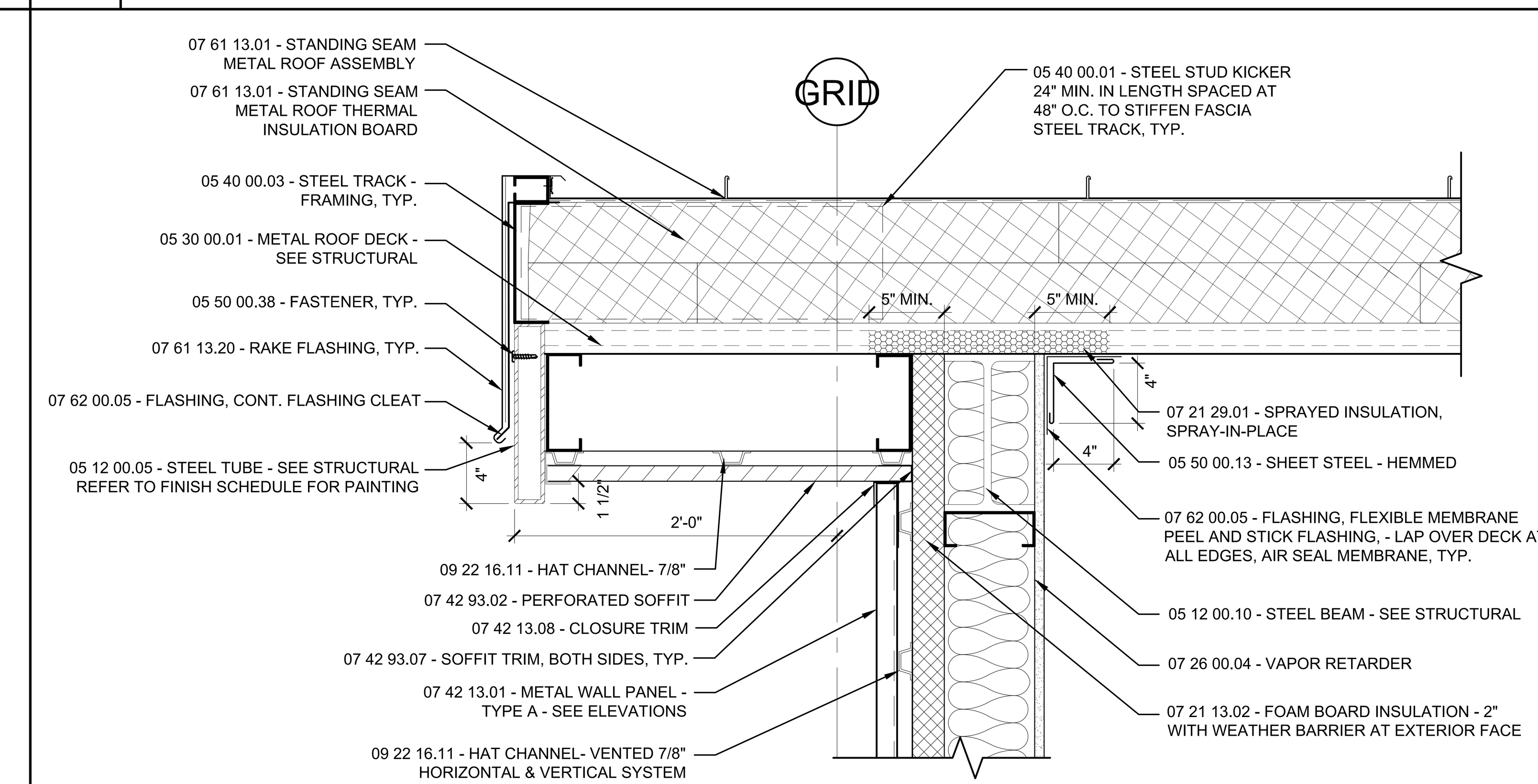
G9 EAVE METAL ROOF

SCALE: 1 1/2" = 1'-0" EAVE AT METAL PANEL



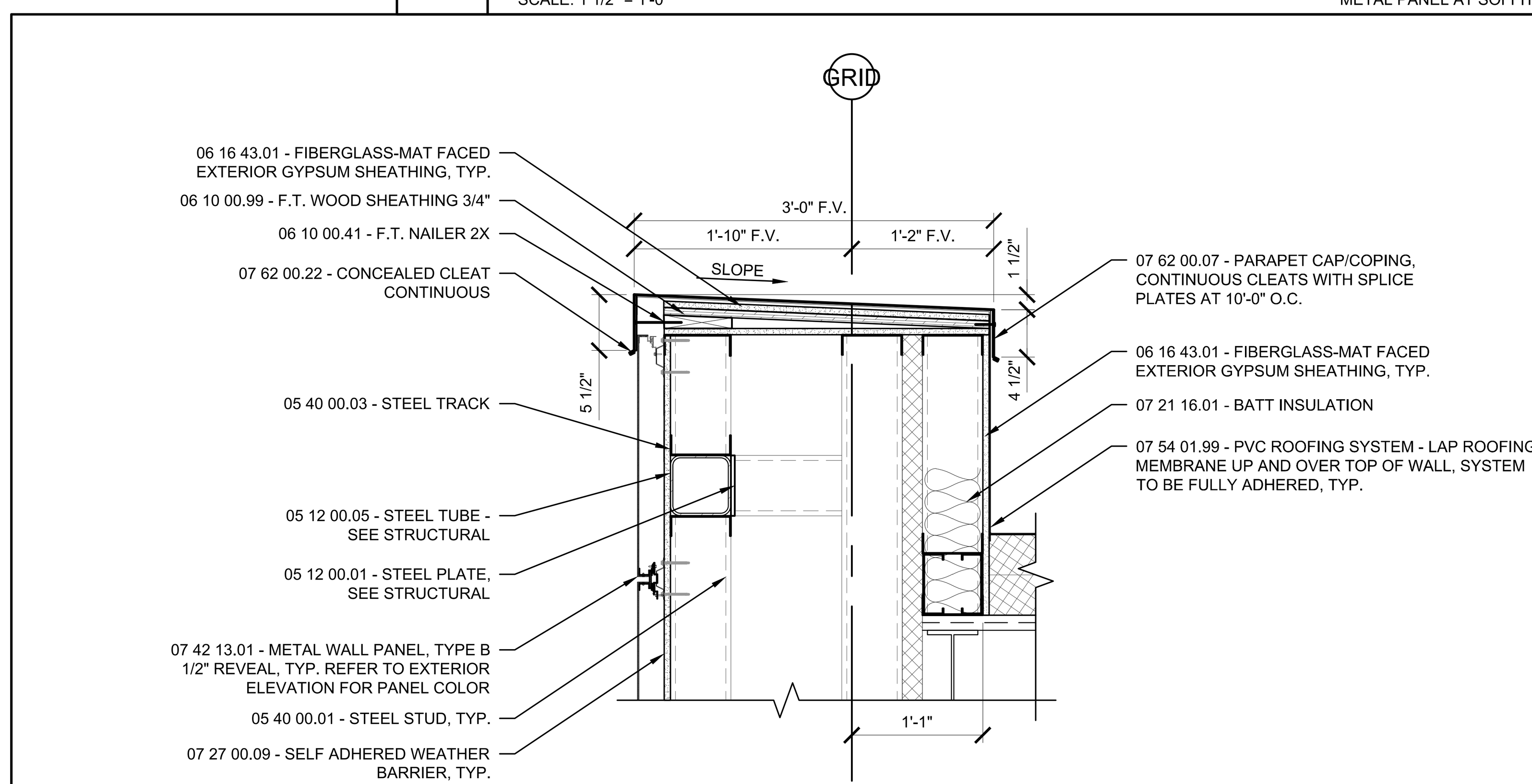
E6 METAL PANEL AT SOFFIT

SCALE: 1 1/2" = 1'-0" METAL PANEL AT SOFFIT



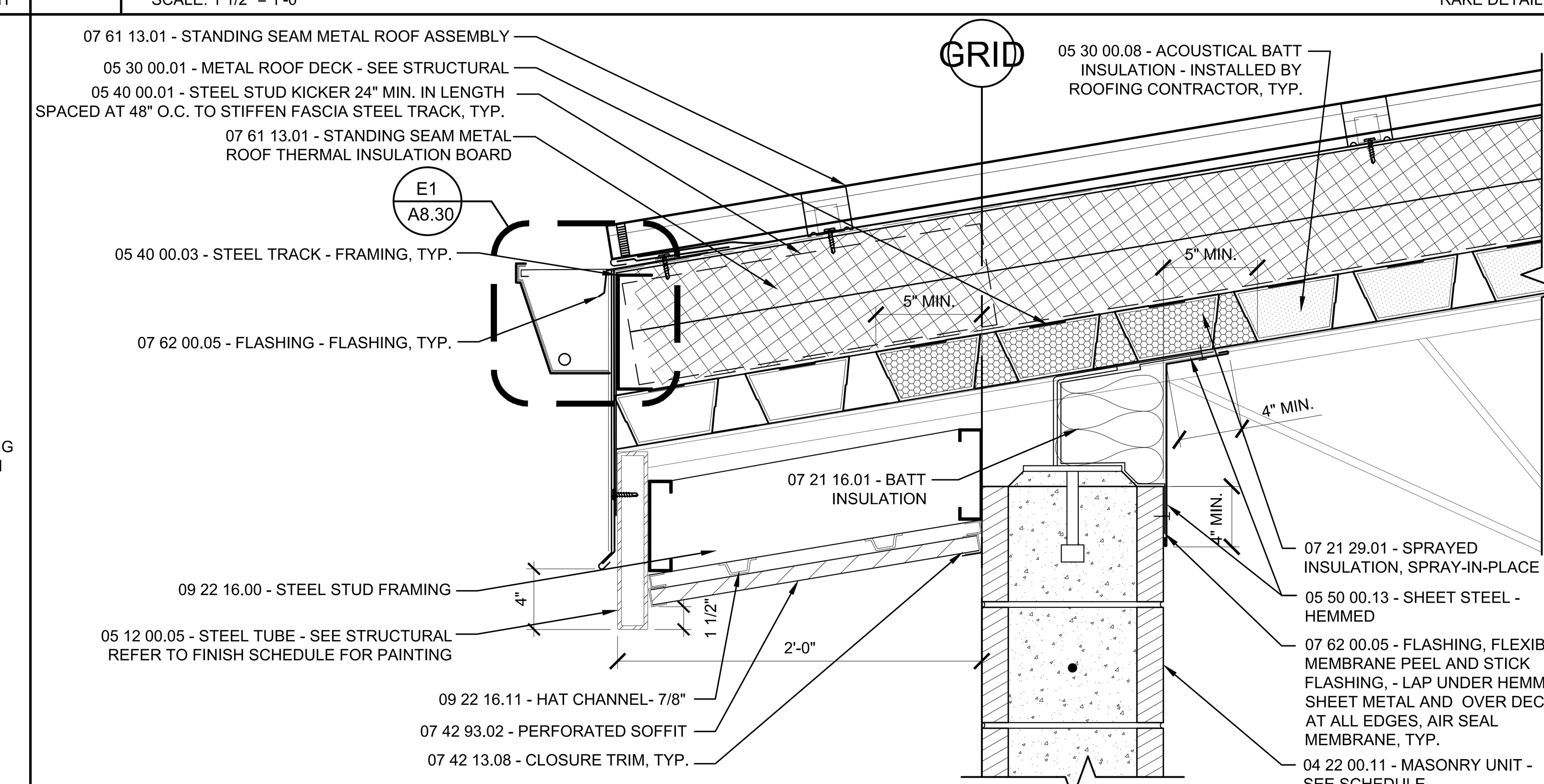
E9 RAKE DETAIL

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



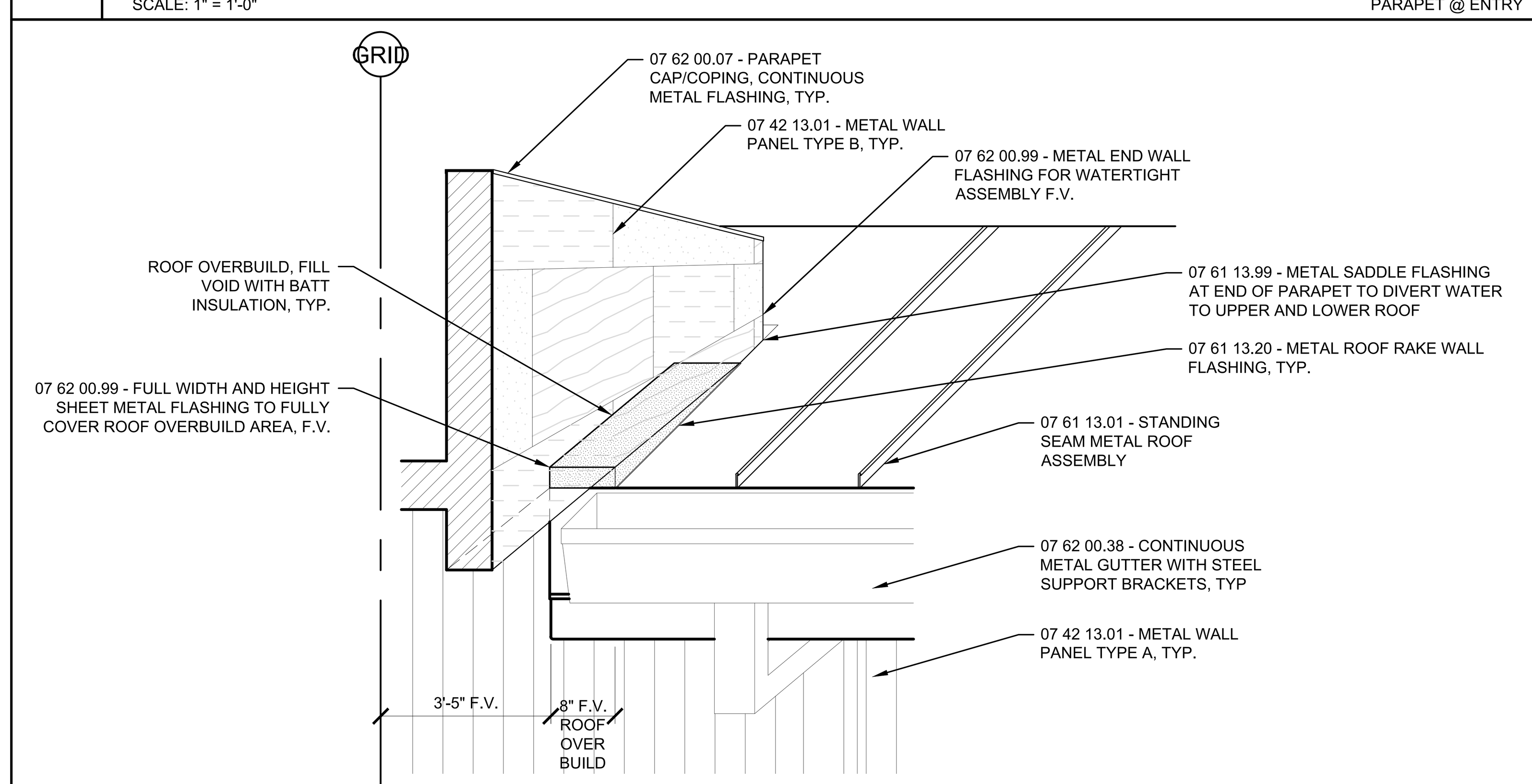
C5 PARAPET AT ENTRY

SCALE: 1" = 1'-0" PARAPET @ ENTRY



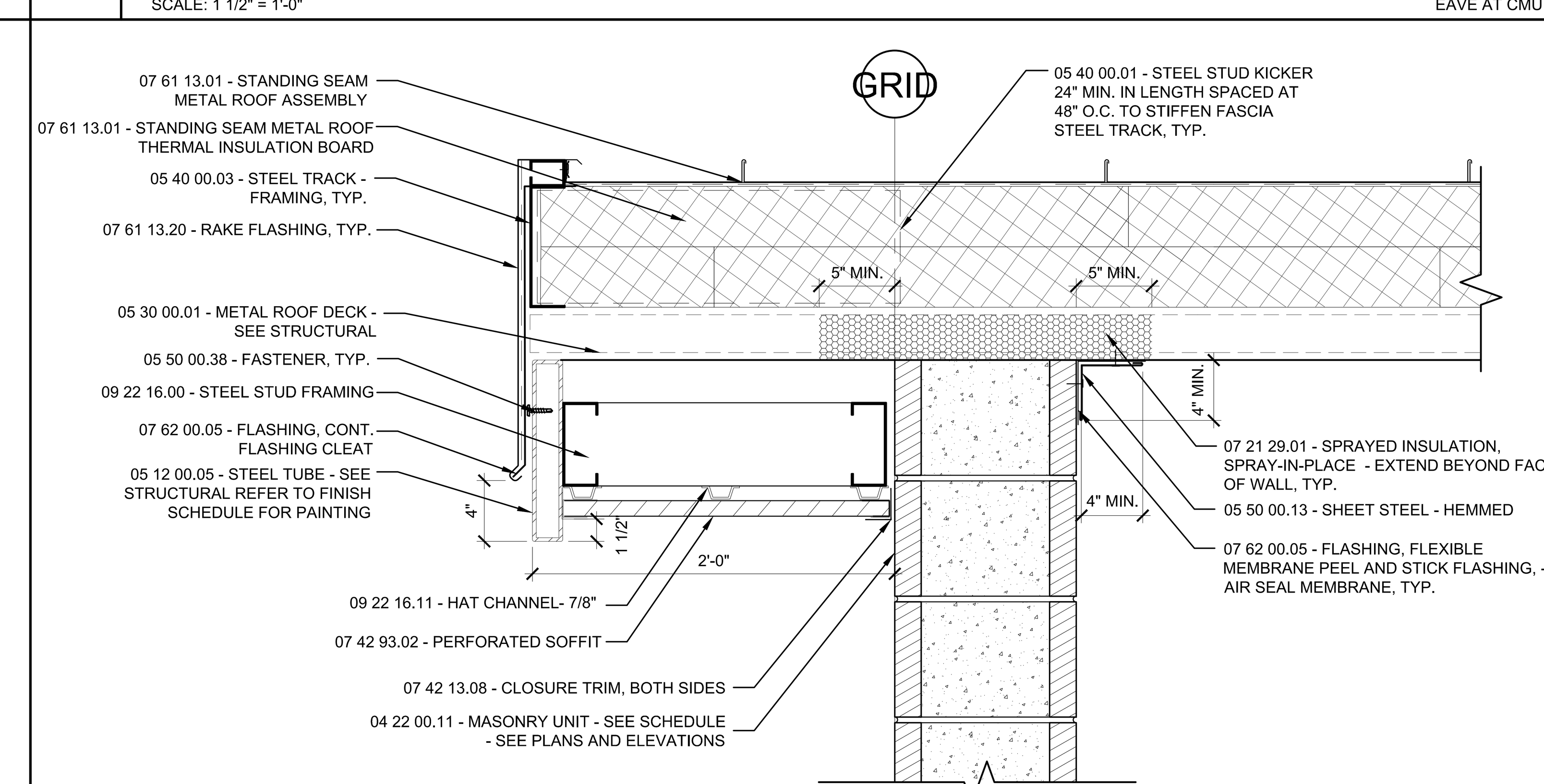
C9 EAVE DETAIL

SCALE: 1 1/2" = 1'-0" EAVE AT CMU



A5 ROOF OVER BUILD

SCALE: N.T.S. ROOF OVER BUILD



A9 RAKE DETAIL

SCALE: 1 1/2" = 1'-0" RAKE AT CMU

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JOB NUMBER
23053

REVISIONS

PASCO SCHOOL DISTRICT #1

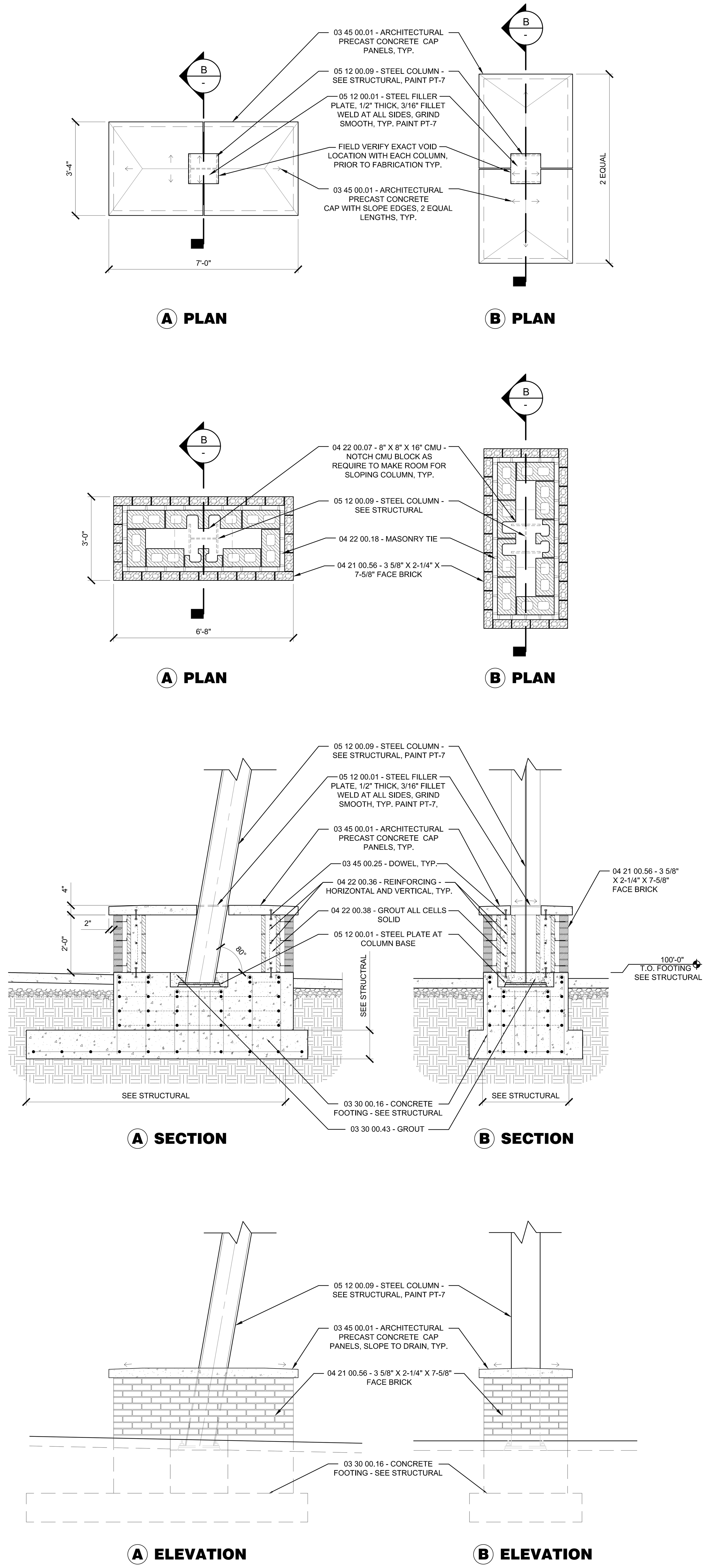
9354 REGISTERED ARCHITECT
BRANDON D. WILM
STATE OF WASHINGTON

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

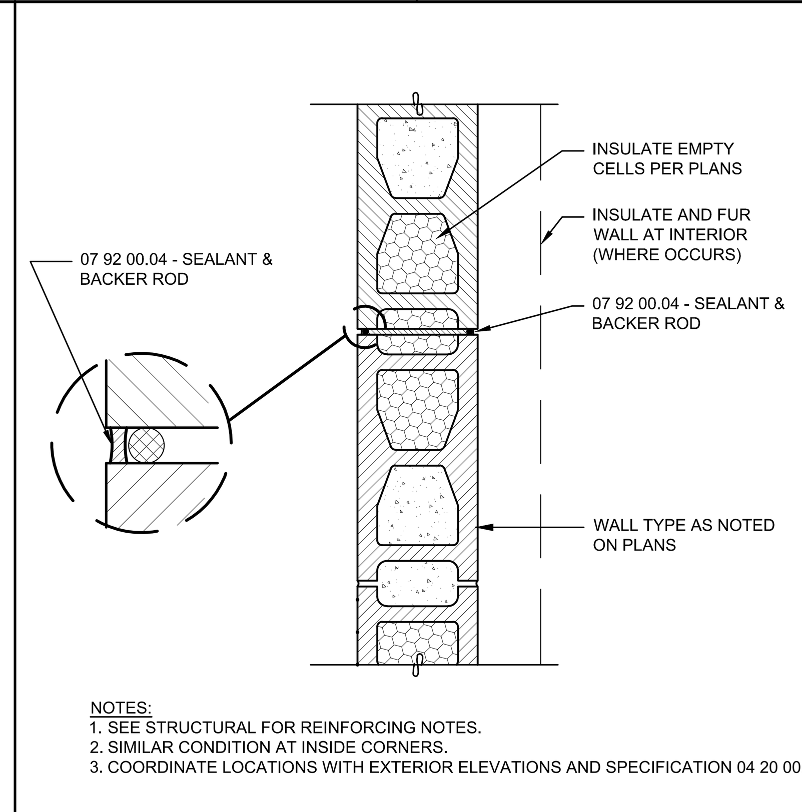
SHEET NAME
ROOF ASSEMBLIES

SHEET
A8.31



A1 EXTERIOR BENCH

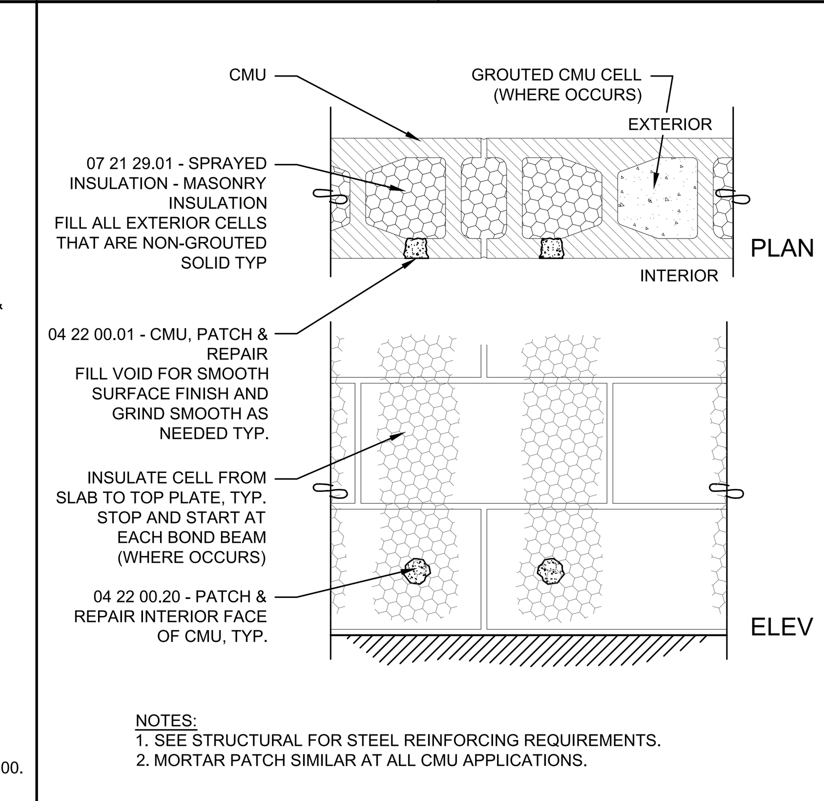
SCALE: 1/2" = 1'-0" — EXTERIOR BENCH



NOTES:
1. SEE STRUCTURAL FOR REINFORCING NOTES.
2. SIMILAR CONDITION AT INSIDE CORNERS.
3. COORDINATE LOCATIONS WITH EXTERIOR ELEVATIONS AND SPECIFICATION 04 20 00.

G7 CMU CONTROL JOINT

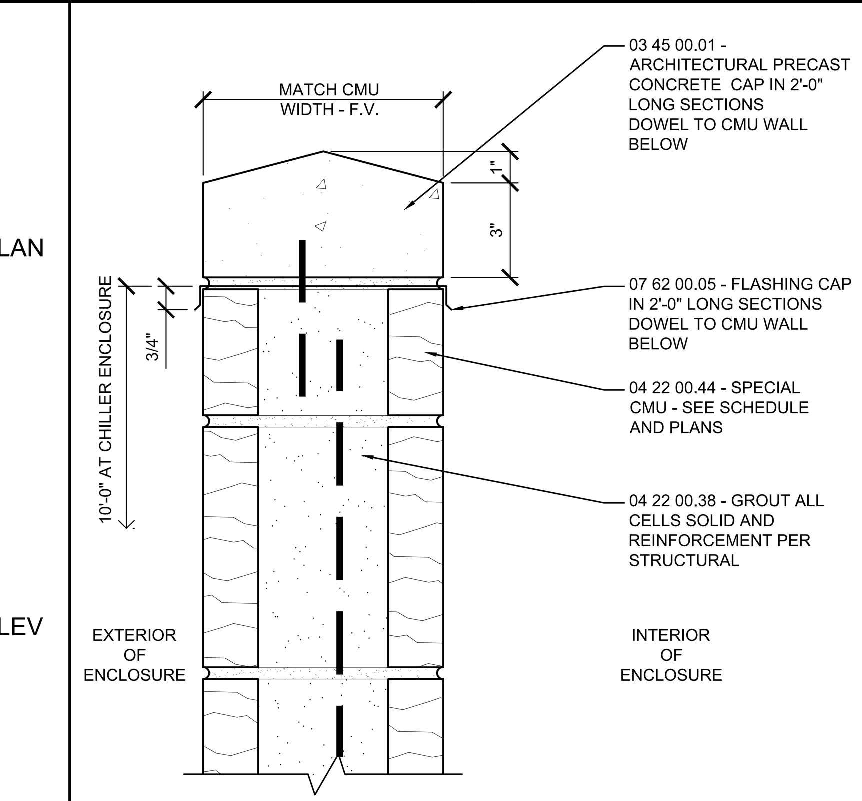
SCALE: 1 1/2" = 1'-0" — CMU EXPANSION JOINT



NOTES:
1. SEE STRUCTURAL FOR STEEL REINFORCING REQUIREMENTS.
2. MORTAR PATCH SIMILAR AT ALL CMU APPLICATIONS.

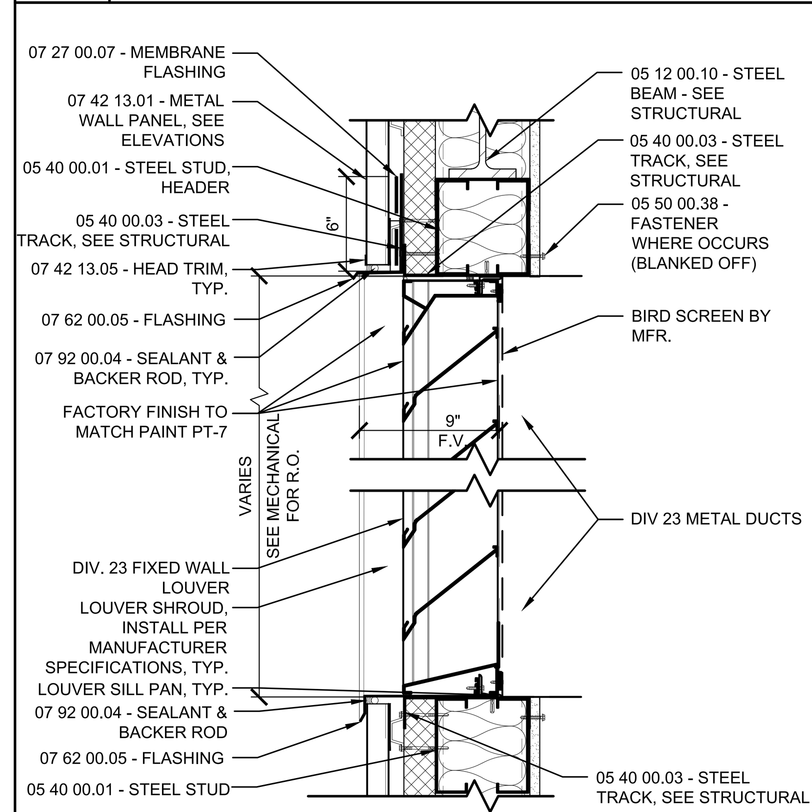
G9 CMU INSULATION PATCH

SCALE: 1 1/2" = 1'-0" — CMU PLUG



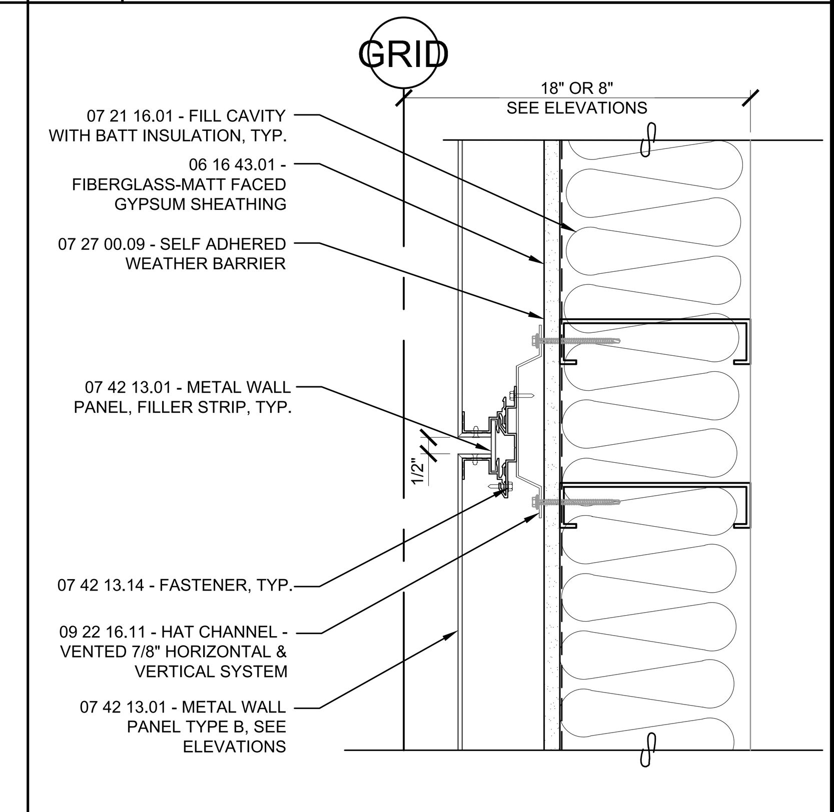
G11 CMU SCREEN WALL CAP

SCALE: 3" = 1'-0" — CMU WALL CAP



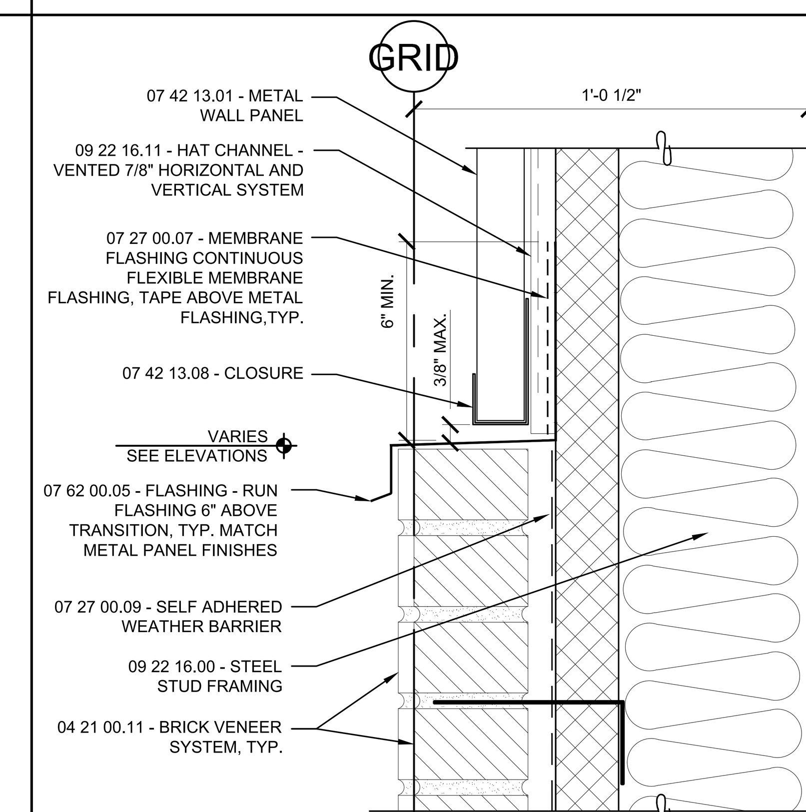
E7 LOUVER DETAIL

SCALE: 1 1/2" = 1'-0" — LOUVER HEAD SILL



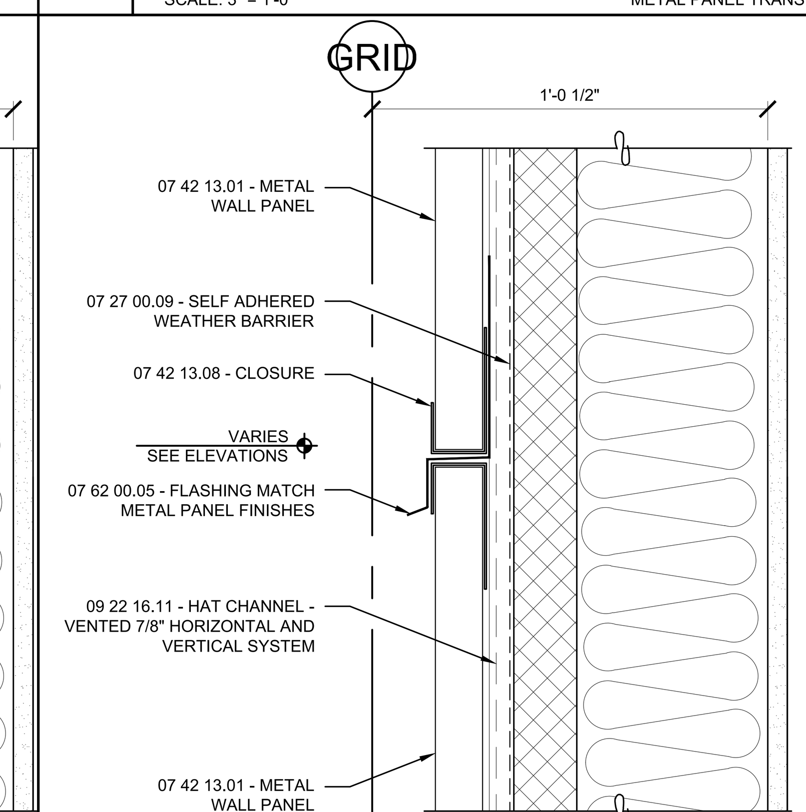
E11 METAL PANEL TRANSITION

SCALE: 3" = 1'-0" — METAL PANEL TRANS. 01



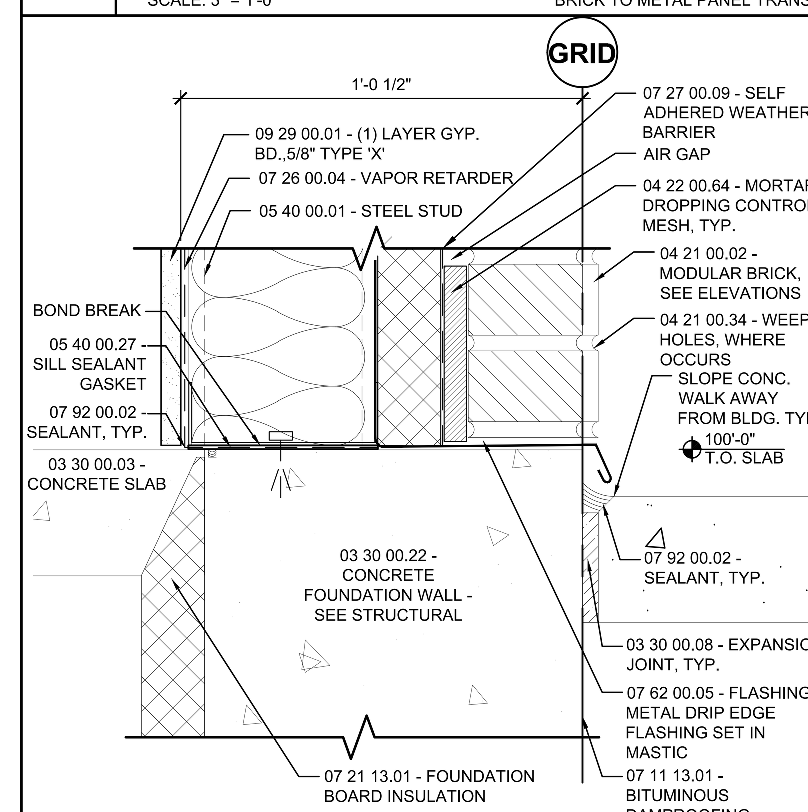
C9 BRICK & METAL PANEL TRANSITION

SCALE: 3" = 1'-0" — BRICK TO METAL PANEL TRANS.



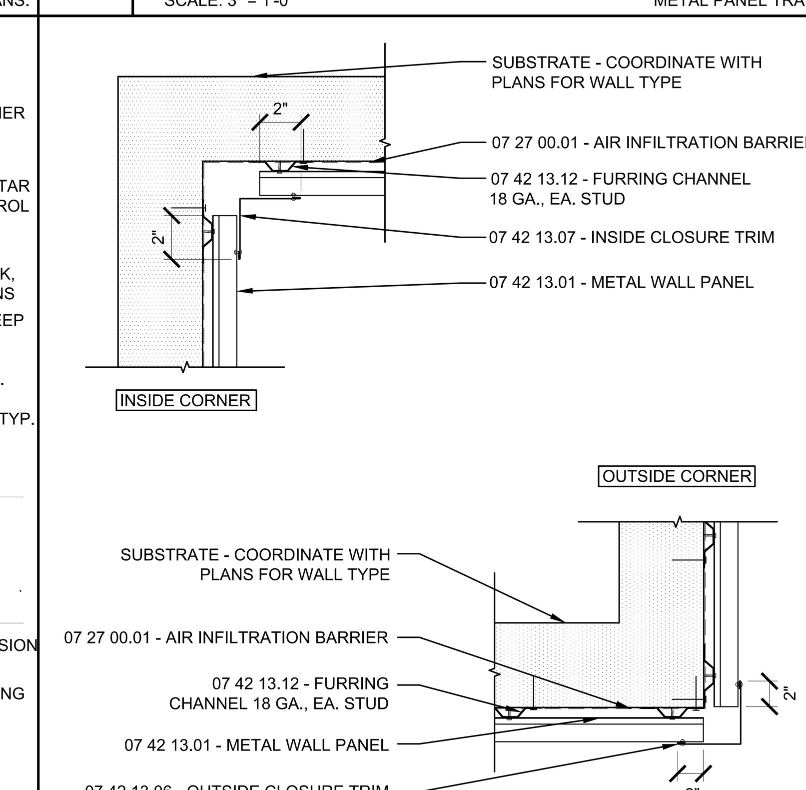
C11 METAL PANEL TRANSITION

SCALE: 3" = 1'-0" — METAL PANEL TRANS.



A9 TYPICAL FOUNDATION DETAIL

SCALE: 3" = 1'-0" — STEM WALL AT BRICK VENEER



A11 EXTERIOR METAL CORNER DETAILS

SCALE: 1 1/2" = 1'-0" — METAL CORNER DETAIL 1

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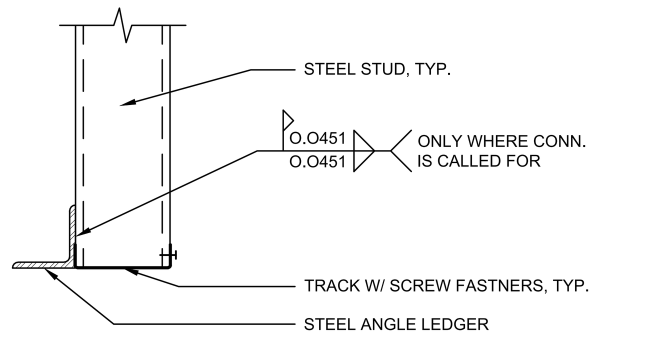
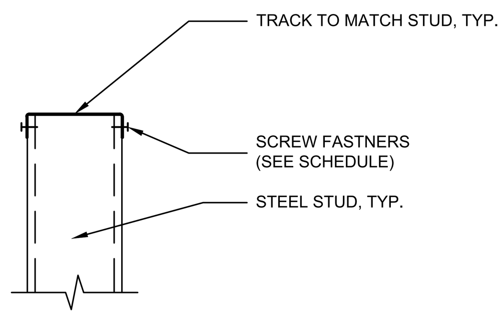
DATE
12/18/2023

SHEET NAME
EXTERIOR DETAILS

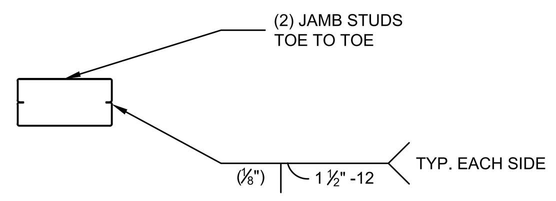
SHEET
A8.40



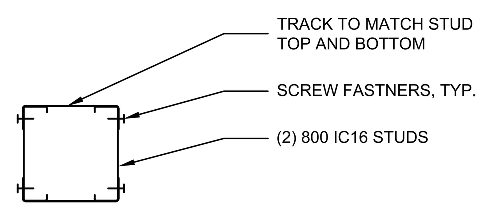
1 **STUD TO STEEL ANGLE**



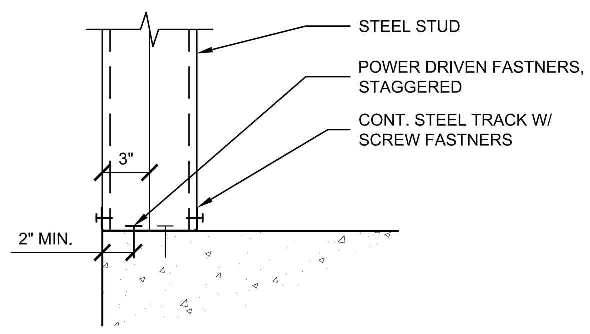
2 **STUD TO TRACK**



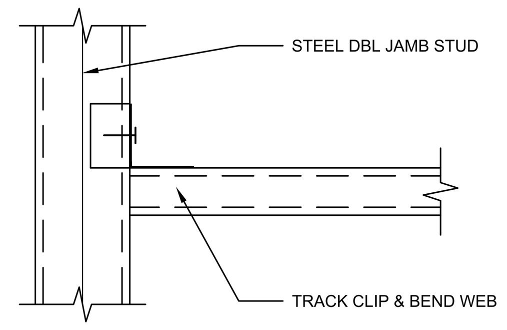
3 **TWO STUD COMBINATION**



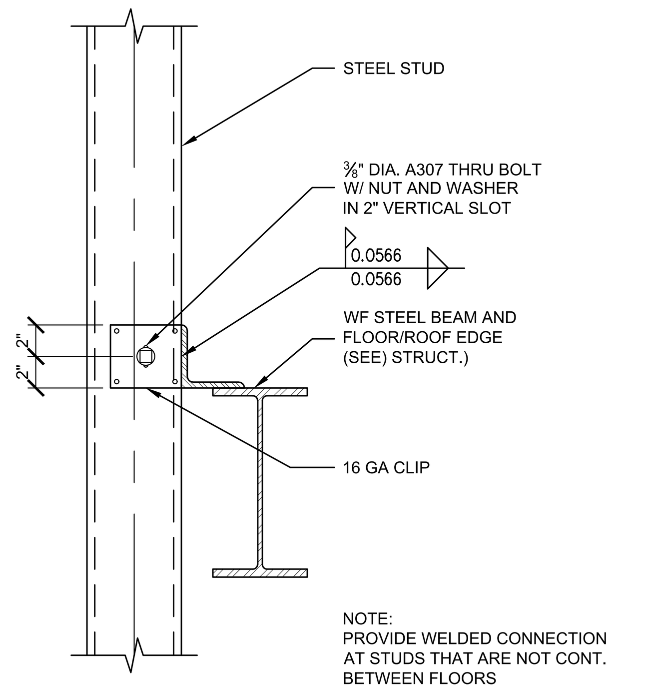
4 **BOX BEAM (HEADER)**



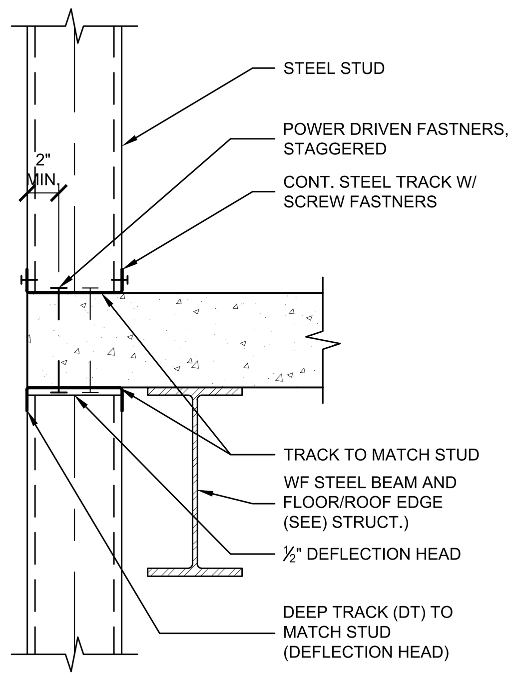
5 **TRACK TO CONCRETE**



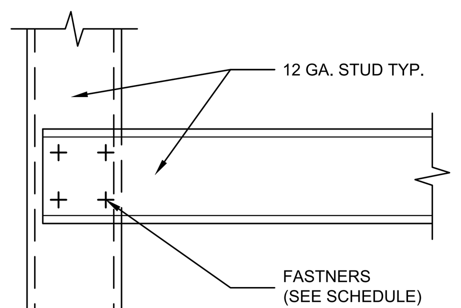
6 **STUD TO TRACK WITH CLIP**



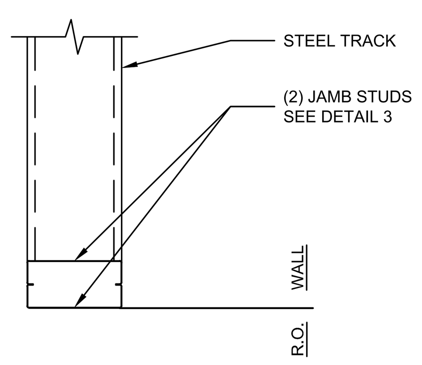
7 **STUD TO BENT PLATE AT FLOOR/ROOF**



8 **STUD TO FLOOR WITH SLIP ANCHOR**



9 **STUD TO STUD CONNECTION**



10 **STUD AT JAMB AT EXTERIOR OPNGS**

STANDARD STUD CONNECTION SCHEDULE	
STUD TO STUD	(4) #10
TRACK TO STUD	(2) # 10
TRACK TO JAMB STUD	(3) # 10
BOX BEAM (HEADER)	(3) #10
TRACK TO CONCRETE	0.145 DIA. PDF'S AT 8" O.C. STAGGERED
CLIP L3X3	(4) #10
DEFLECTION HEAD TO TRACK	#10 AT 8" O.C. STAGGERD
STUD CLIP AT SLAB EDGE	(4) #10
BUILT-UP SECTIONS	#10 AT 8" O.C. OR 1/8 1 1/2" - 12

STUD CONNECTION NOTES:

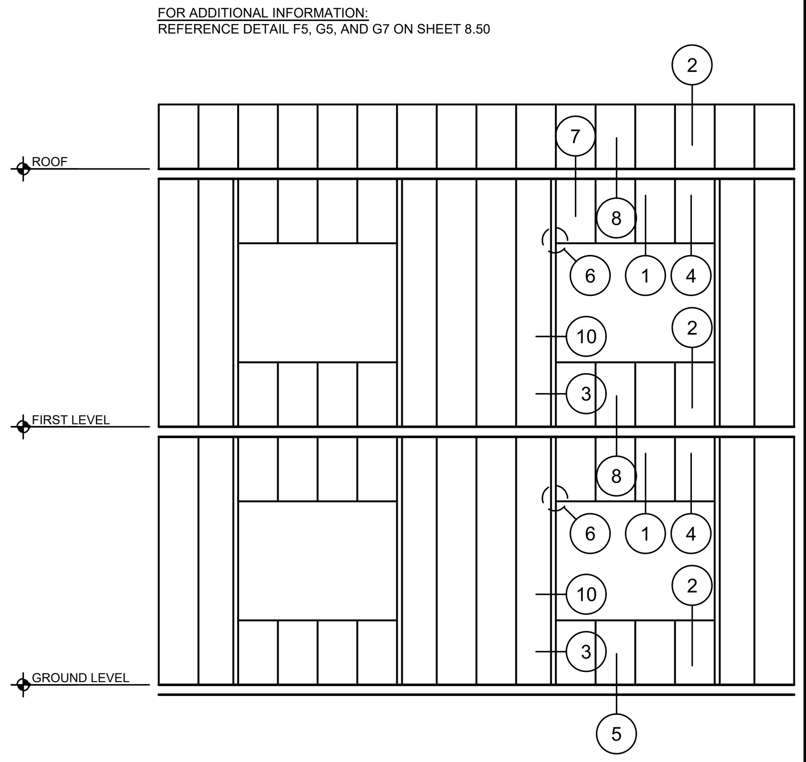
1) SCREWS SHALL BE HILTI "KWIK-FLEX", ELKO, OR EQUAL. SCREWS SHALL BE NON-CORROSIVE, CADMIUM PLATED, HOT DIPPED GALVANIZED, OR COMPOSITE ZINC POLYMER COATED. SCREWS SHALL BE SELF DRILLING, SELF TAPPING W/ THREADS RECOMENDED BY MANUFACTURER FOR METAL FASTENED.
2) SCREWS SHALL BE PLACED A MIN. OF 3" O.C. WITH A MIN. ½" EDGE DISTANCE.
3) POWER DRIVEN FASTNERS (PDF) SHALL BE HILTI "DX" OR EQUAL (W/ICBO) INSTALLED IN ACCORDANCE W/ MANUFACTURERS RECOMENDATIONS.
4) PDF'S ANCHORED IN STEEL SHALL NOT BE SPACED LESS THAN 1 ½" O.C. W/ A MIN. ½" EDGE DISTANCE. PDF'S ANCHORED IN CONCRETE SHALL BE SPACED A MIN. OF 4" O.C. WITH A MIN. OF 3" EDGE DISTANCE.
5) WELDING SHALL BE PERFORMED IN ACCORDANCE W/ AWS D13. ELECTRODS SHALL BE EGOXX.

VENEER LINTEL SCHEDULE	
LINTEL SPAN (MAX. IN FEET)	LINTEL ANGLE
6'-0"	L4X4X1/4
8'-0"	L5X5X5/16

VENEER LINTEL NOTES:

1) ANGLE MATERIAL SHALL BE ASTM A36. HOT DIP GALVANIZE ASTM A123. GRADE 65 C 1 ½ OZ. ZINC PER SQUARE FEET OF SURFACE AREA MIN.
2) LINTEL SHALL RUN CONTINUOUSLY ACROSS OPENING AND SHALL SOLIDLY BEAR ON JAMB VENEER A MINIMUM OF 4".

FOR ADDITIONAL INFORMATION: REFERENCE DETAIL F5, G5, AND G7 ON SHEET 8.50



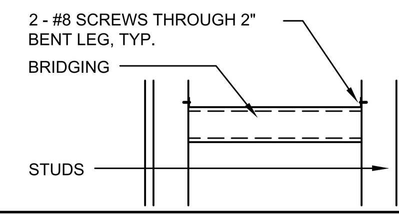
A1 STEEL STUD FRAMING DIAGRAM AT EXTERIOR VENEER
SCALE: 1 1/2" = 1'-0" — STEEL STUD DIAGRAM

HEADER & SILL SCHEDULE		
OPENING WIDTH	HEADER & SILL CONFIGURATION	JAMB STUD
0'-0" TO 4'-0"	TRACK / STUD	2 STUDS
4'-0" TO 6'-0"	TRACK / STUD	2 STUDS 3 STUDS @ EXT. (18 GA)
6'-0" TO 8'-0"	TRACK / STUD	3 STUDS (18 GA.)
8'-0" TO 10'-0"	TRACK / STUD / TRACK	4 STUDS
10'-0" TO 12'-0"	TRACK / STUD / TRACK	4 STUDS

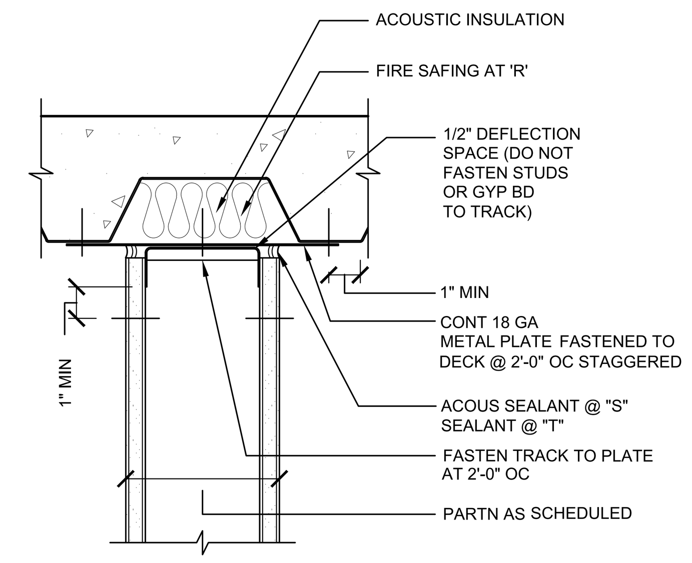
G5 STEEL HEADER AND SILL SCHEDULE
SCALE: FULL SIZE — STEEL HEADER SILL SCHD

SPAN TABLE INTERIOR NON-BEARING STUDS (U.N.O.)			
SPAN	SIZE	GAUGE	SPACING
<14'-0"	3 1/2"	25	16" O.C.
	4"	25	16" O.C.
	6"	25	16" O.C.
14'-0" TO 18'-0"	3 1/2"	18	16" O.C.
	4"	18	16" O.C.
	6"	25	16" O.C.
18'-0" TO MAX 20'-0"	3 1/2"	14*	16" O.C.
18'-0" TO MAX 21'-0"	4"	16*	16" O.C.
18'-0" TO MAX 28'-0"	6"	18	16" O.C.

NOTE:
1. FOR DOUBLE STUD WALLS - PROVIDE INTERMEDIATE BRIDGING AT 4'-0" MAX.
2. *50 KSI
3. SPANS BASED ON COMPOSITE ASSEMBLY.
4. GYPSUM BOARD FULL HEIGHT BOTH SIDES OF WALL.
5. SPANS BASED UPON 5LBS PSF AND L/240 DEFLECTION.

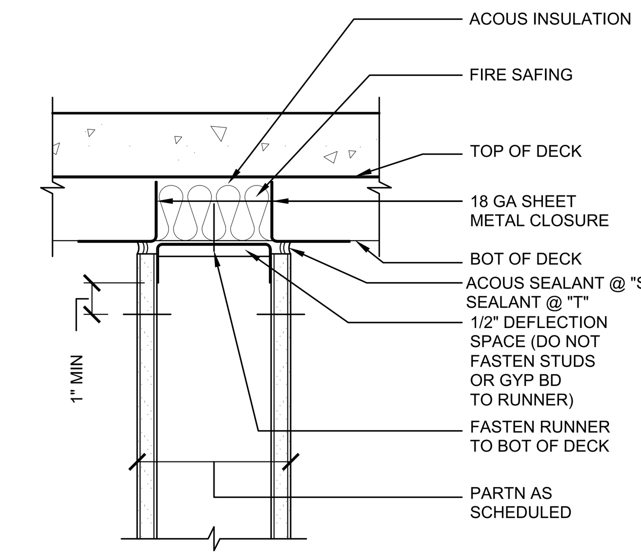


G7 STEEL STUD SPAN TABLE
SCALE: FULL SIZE — STEEL STUD SPAN TABLE



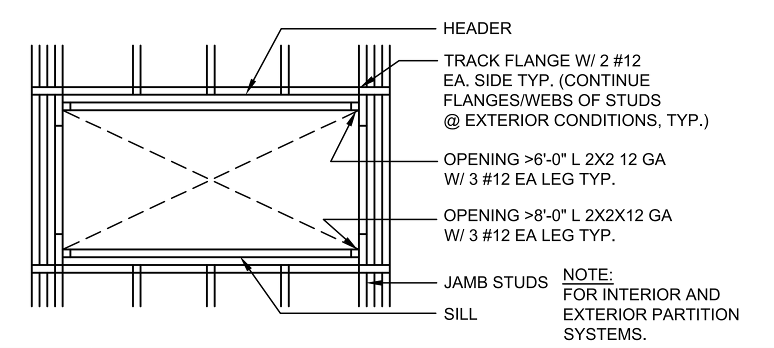
RATED - UL SYSTEM NO. HW-D-0011

G9 PARTITION HEAD BRACING
SCALE: 3" = 1'-0" — PARTITION HEAD 01

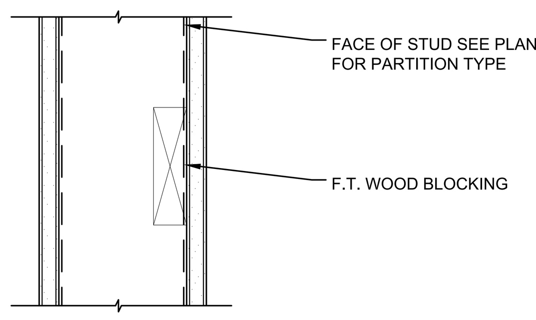


RATED - UL SYSTEM NO. HW-D-0011

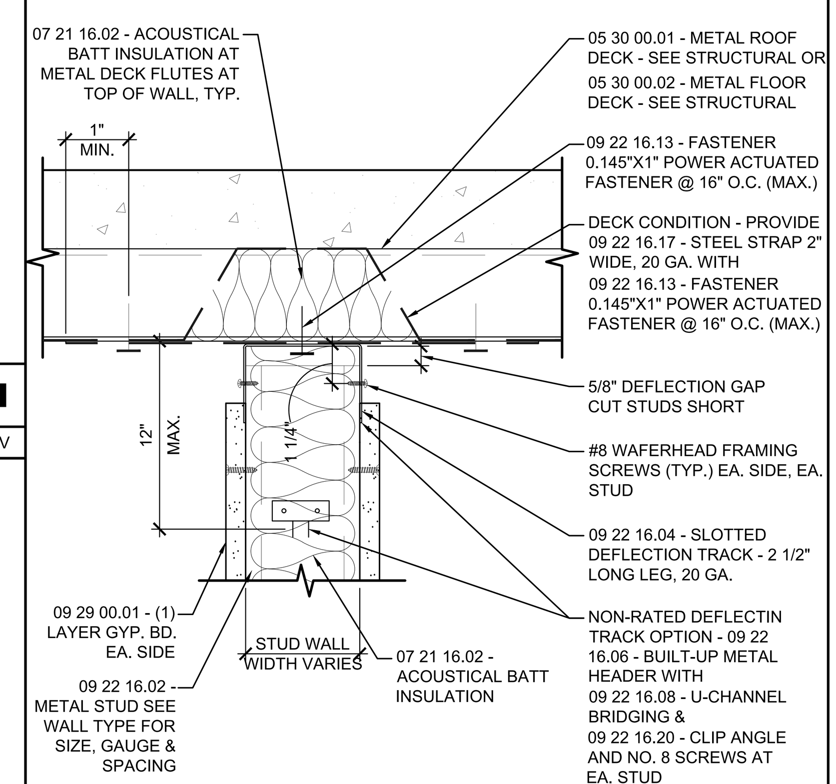
G11 PARTITION HEAD BRACING
SCALE: 3" = 1'-0" — PARTITION HEAD 02



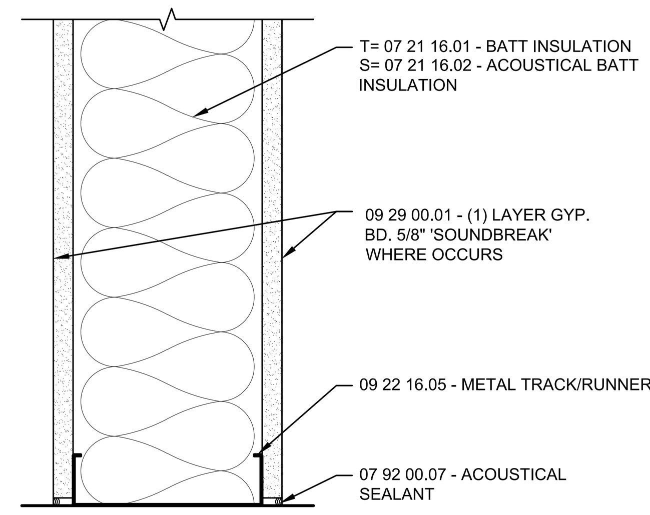
F5 STEEL HEADER AND SILL ELEVATION
SCALE: FULL SIZE — STEEL HEADER SILL ELEV



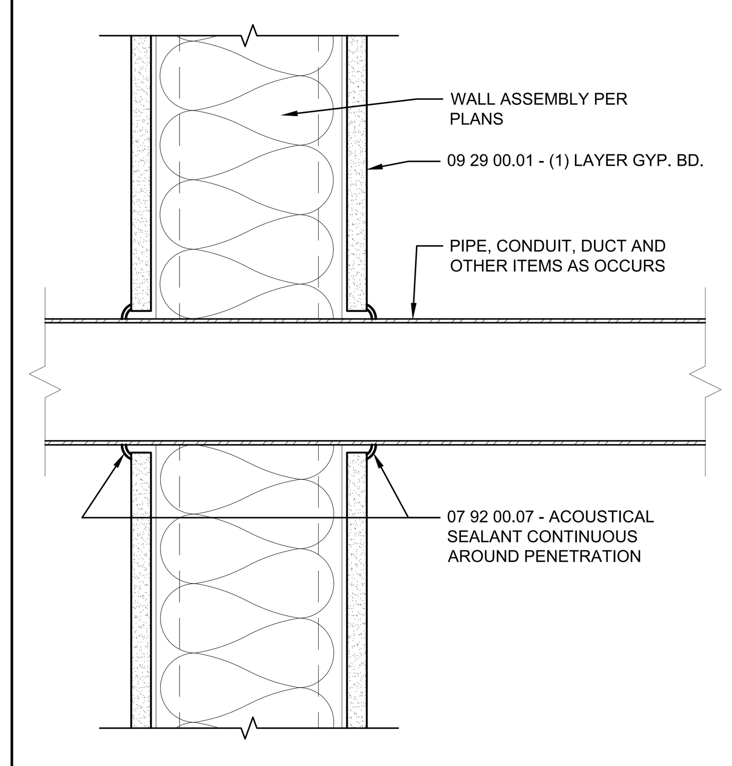
E5 BACKING PLATE
SCALE: 3" = 1'-0" — PARTITION BACKING PLATE



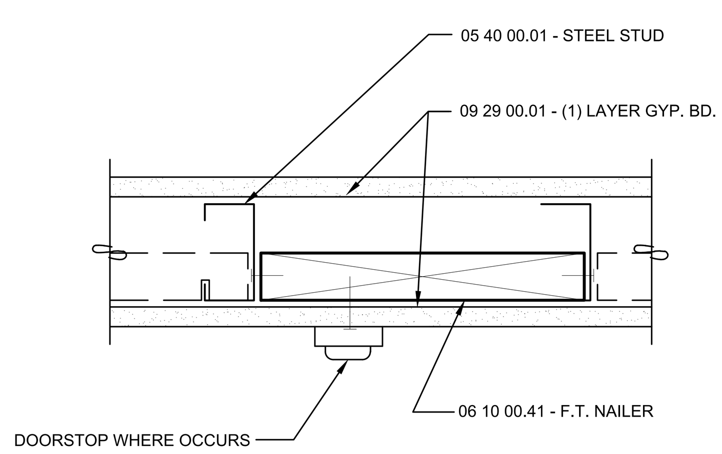
E7 DEFLECTION HEAD DETAIL
SCALE: 3" = 1'-0" — SLIP-TRACK NR PARTITION



E9 SEALANT AT WALL BASE
SCALE: 3" = 1'-0" — SEALANT 01

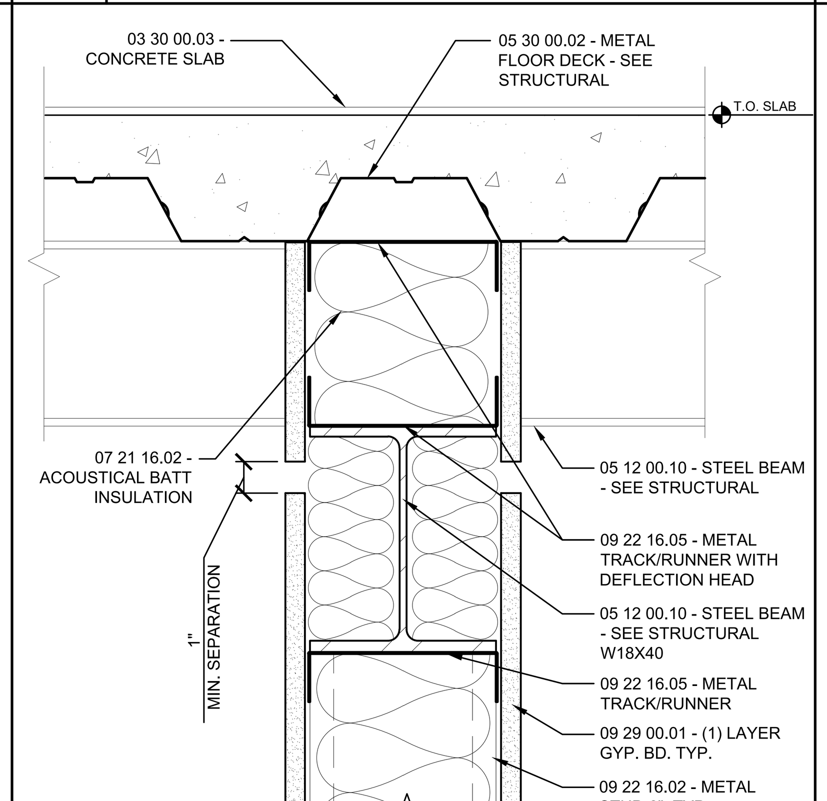


E11 SEALANT AT WALL PENETRATION
SCALE: 3" = 1'-0" — SEALANT 02

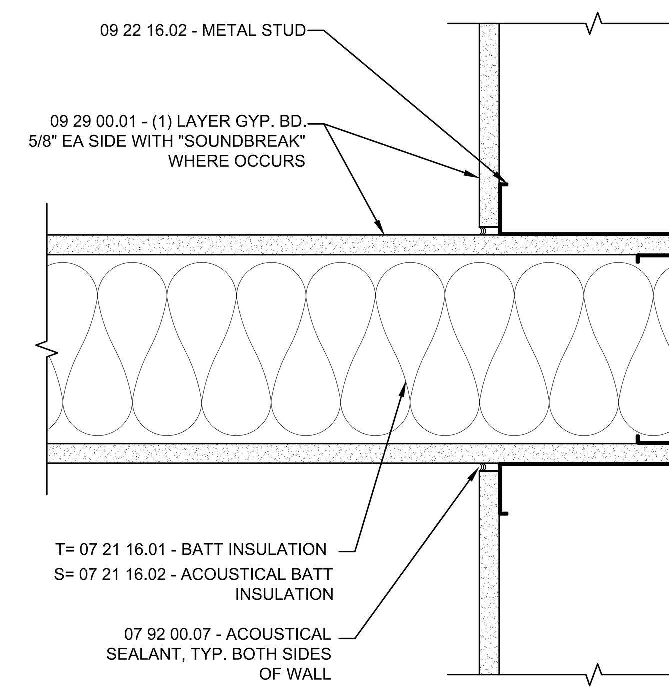


NOTE: TYP. AT ALL DOOR RETURNS AND CASEWORK

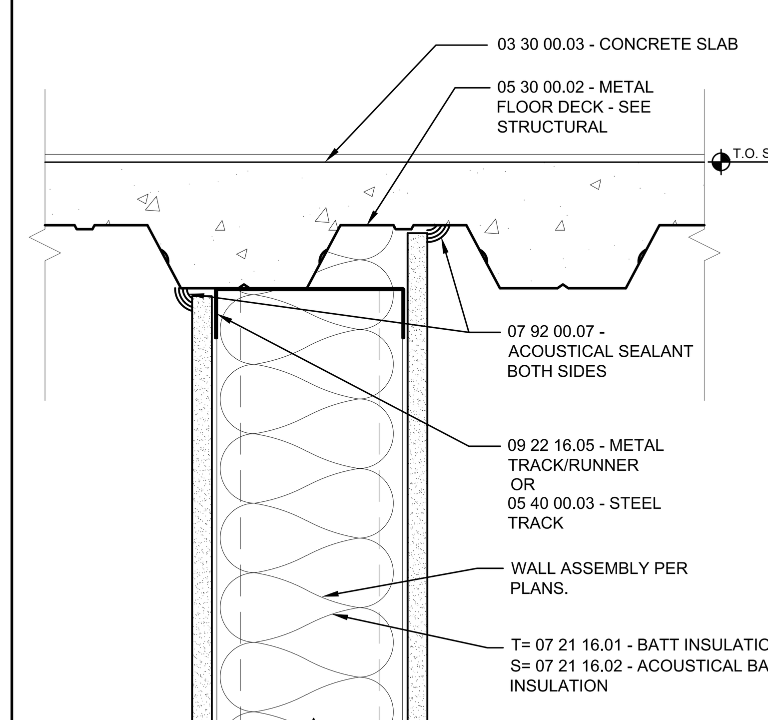
C5 BLOCKING/BACKING
SCALE: 3" = 1'-0" — DOORSTOP BLOCKING



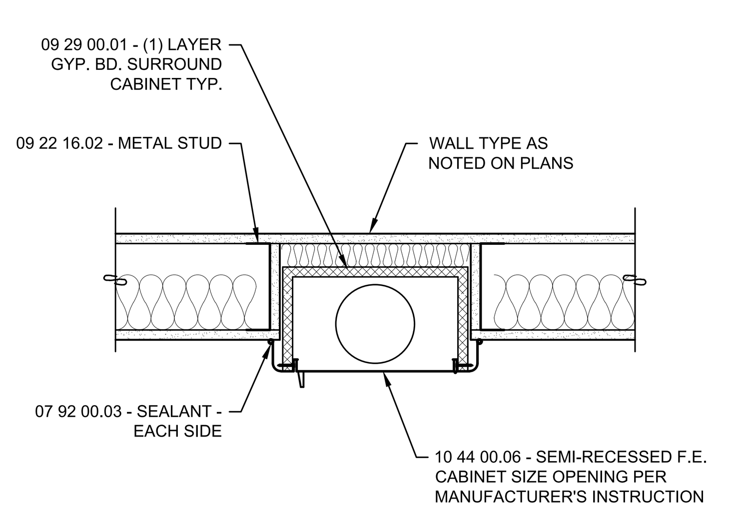
C7 FULL HT @ 2ND FLOOR CORRIDOR
SCALE: 3" = 1'-0" — FULL HEIGHT WALL W INFILL



C9 SEALANT AT WALL PERIMETER
SCALE: 3" = 1'-0" — SEALANT 03

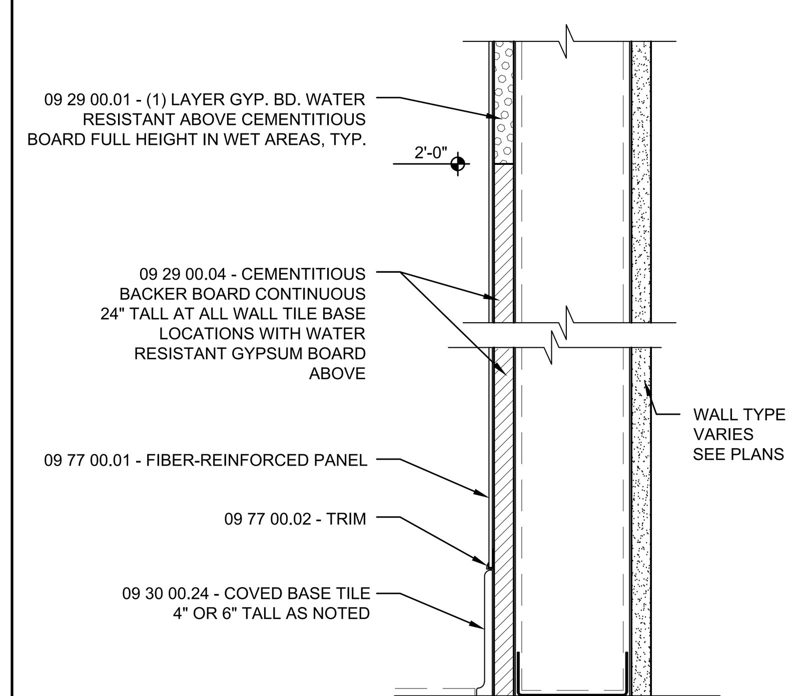


C11 SEALANT AT TOP OF WALL
SCALE: 3" = 1'-0" — SEALANT 04

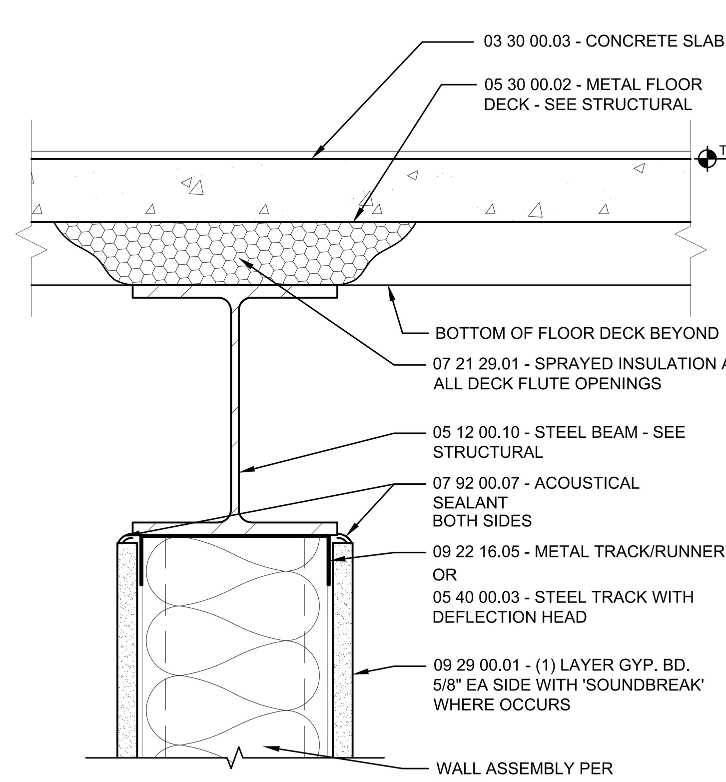


NOTE:
SEE FLOOR PLANS FOR CABINET LOCATIONS

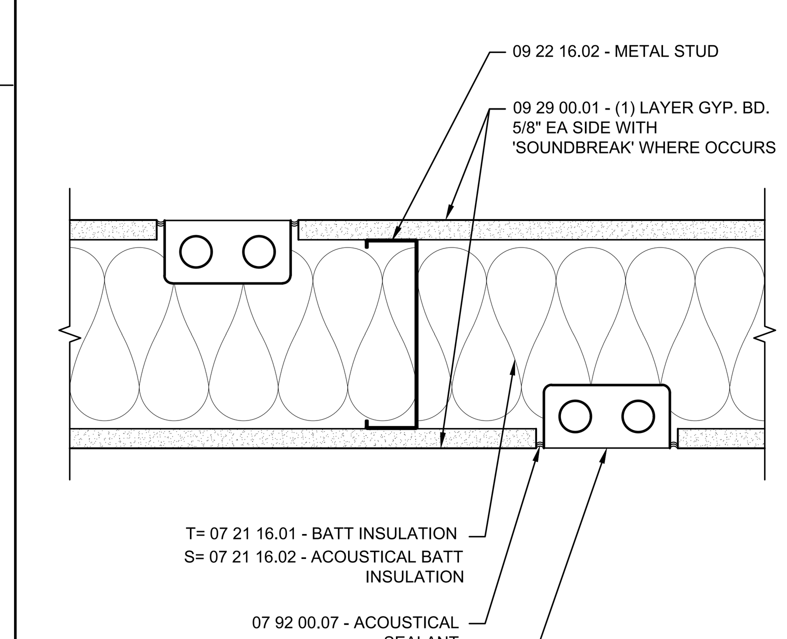
A5 RECESSED FE CABINET
SCALE: 1 1/2" = 1'-0" — FE CABINET STUD



A7 CEMENTITIOUS BACKER BOARD
SCALE: 3" = 1'-0" — TILE BASE



A9 SEALANT AT STEEL BEAM
SCALE: 3" = 1'-0" — SEALANT 05



A11 SEALANT AT WALL EQUIPMENT
SCALE: 3" = 1'-0" — SEALANT 06

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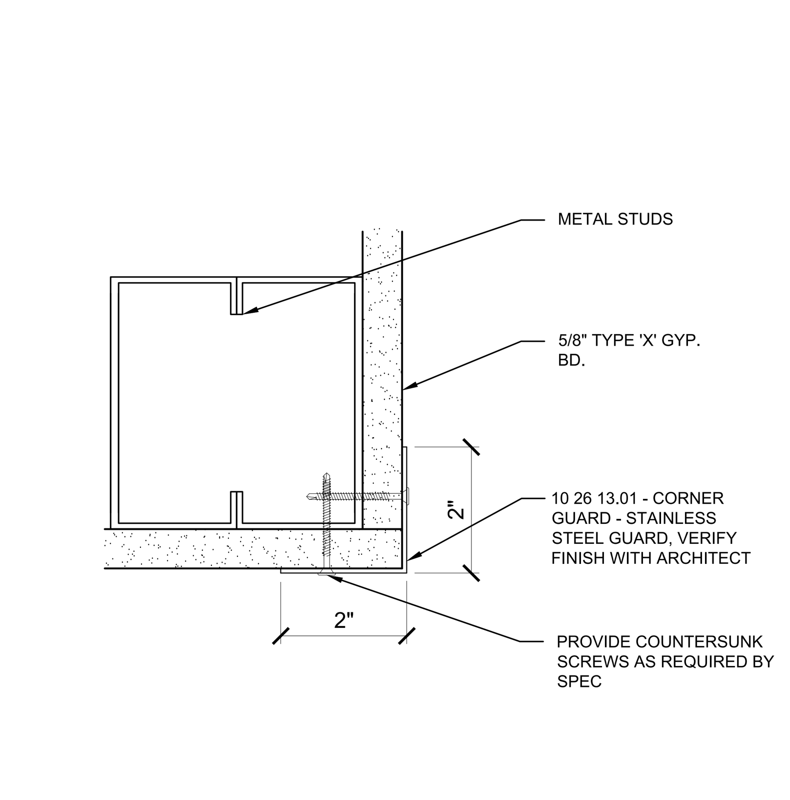
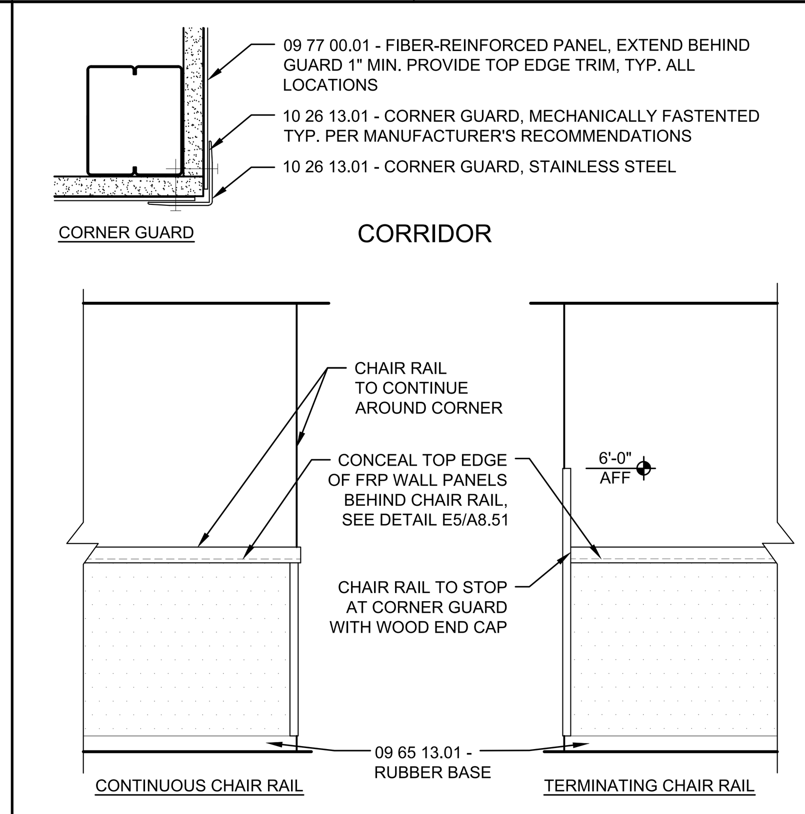
SHEET NAME
INTERIOR DETAILS

SHEET
A8.50

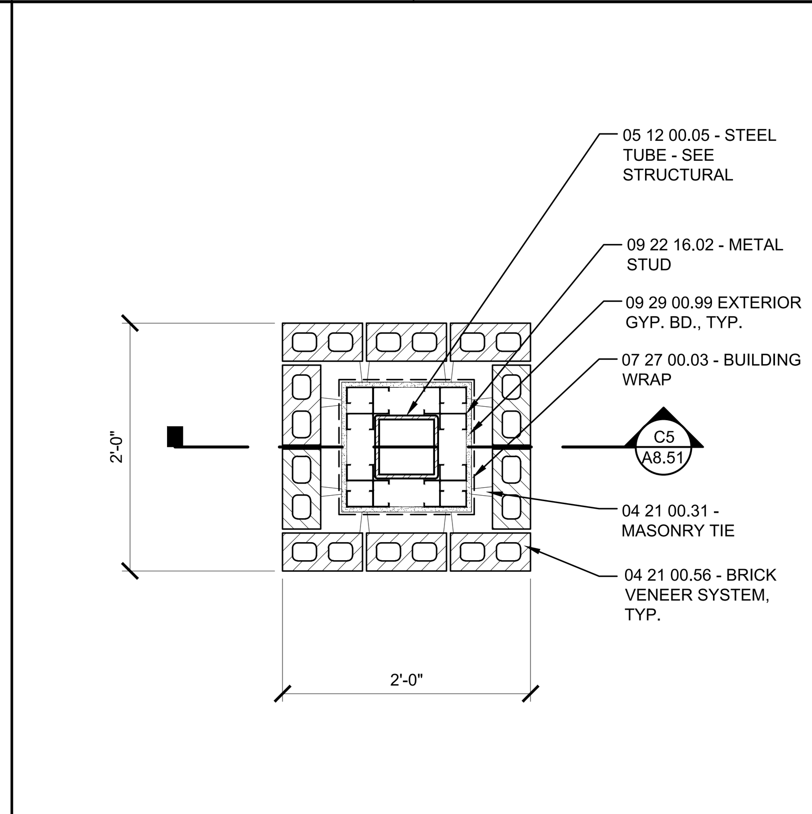
1 2 3 4 5 6 7 8 9 10 11 12



G1 CORNER GUARD
SCALE: HALF — CORNER GUARD

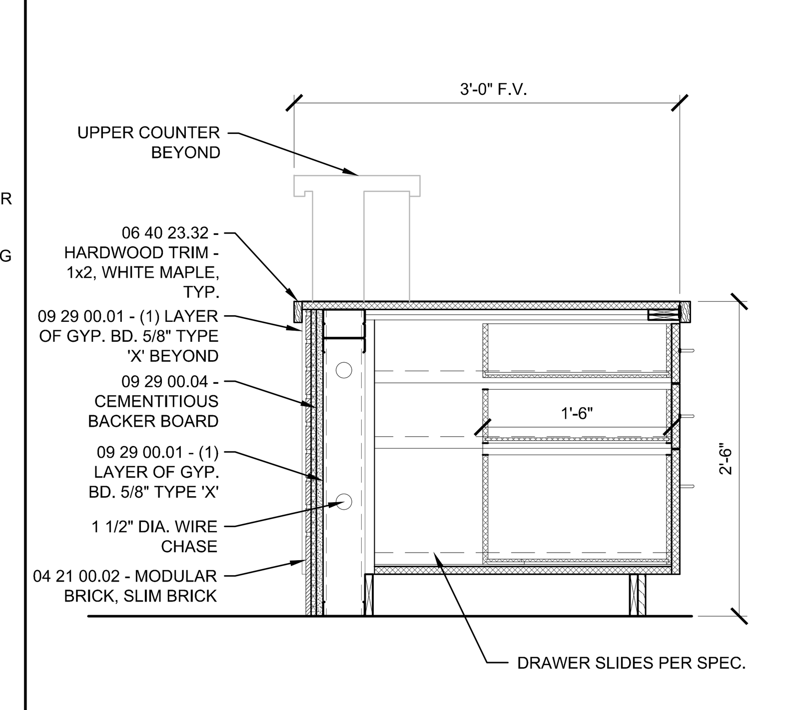


G3 CORNER GUARD
SCALE: 3" = 1'-0" — CORNER GUARD ELEVATION



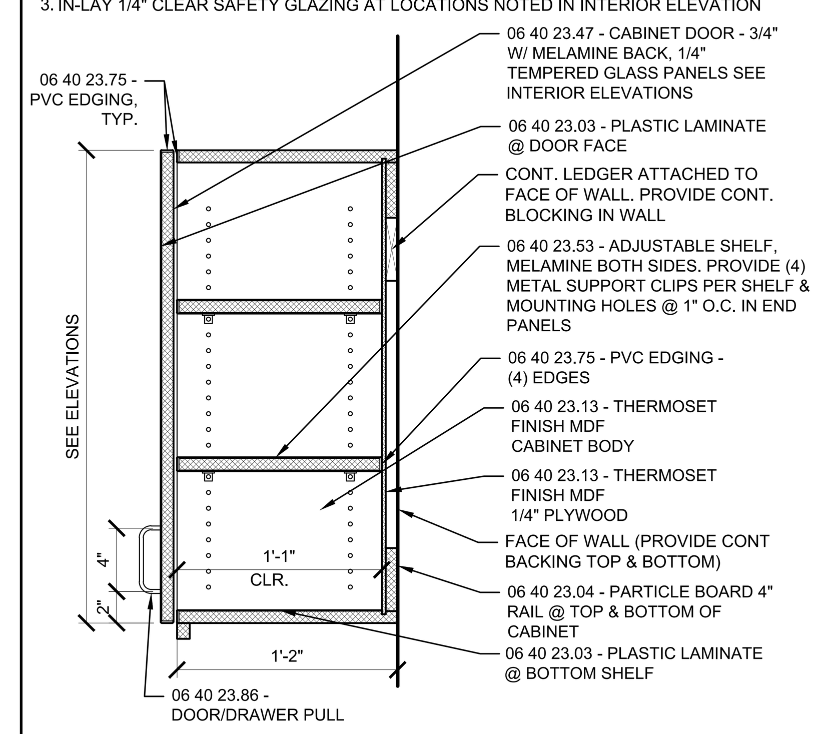
G5 BRICK COLUMN 1
SCALE: 1" = 1'-0" — BRICK COLUMN 1

NOTE:
CABINET BODY-3/4" MDF W/PLAM @ COUNTERTOP, PLAM END PNLS, FACE EDGES. MELAMINE @ ALL OTHER EXPOSED SURFACES



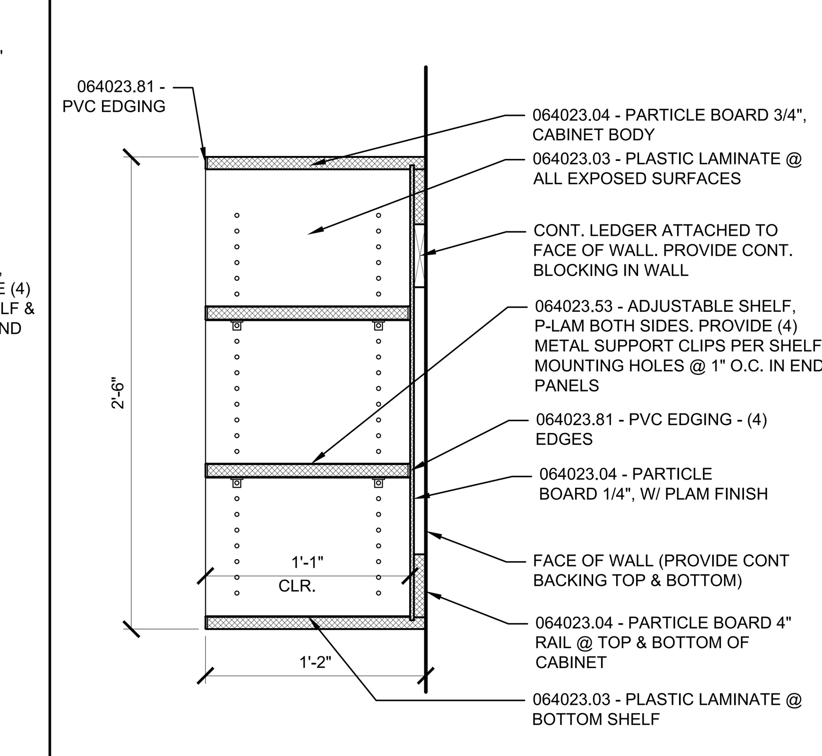
G7 RECEPTION COUNTER
SCALE: 1" = 1'-0" — RECEP. CASEWORK 2

DETAIL NOTES:
1. EXPOSED END PANELS SHALL BE 3/4" MDPB W/ PLAM TYP.
2. PROVIDE LOCKING HARDWARE AS NOTED.
3. IN-LAY 1/4" CLEAR SAFETY GLAZING AT LOCATIONS NOTED IN INTERIOR ELEVATION

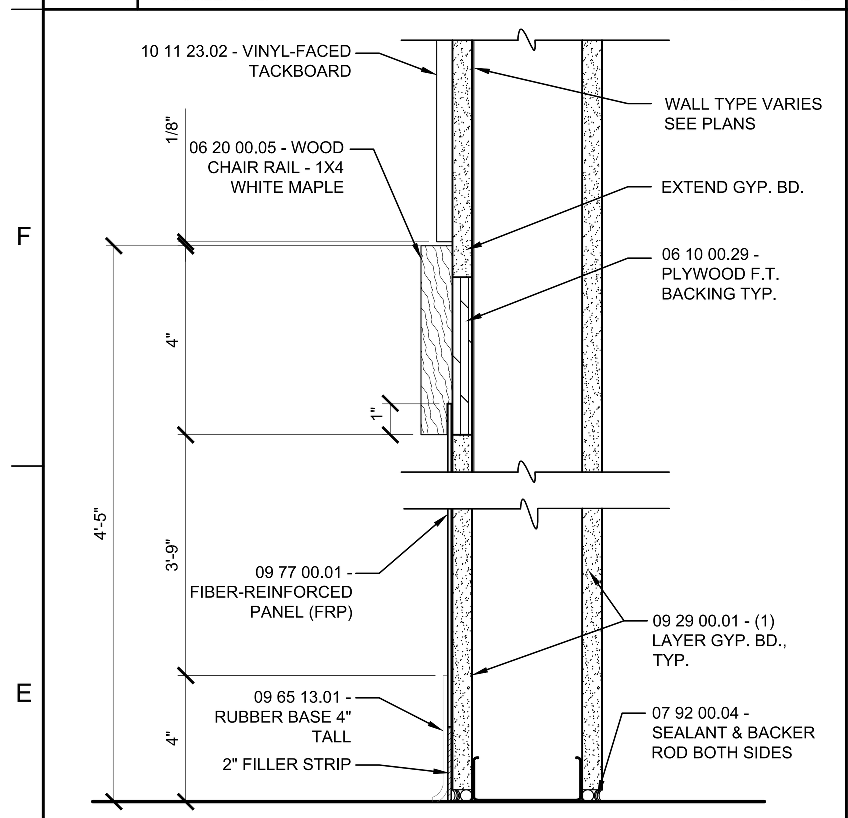


G9 UPPER CABINET WITH DOORS
SCALE: 1 1/2" = 1'-0" — UPPER CABINET 1

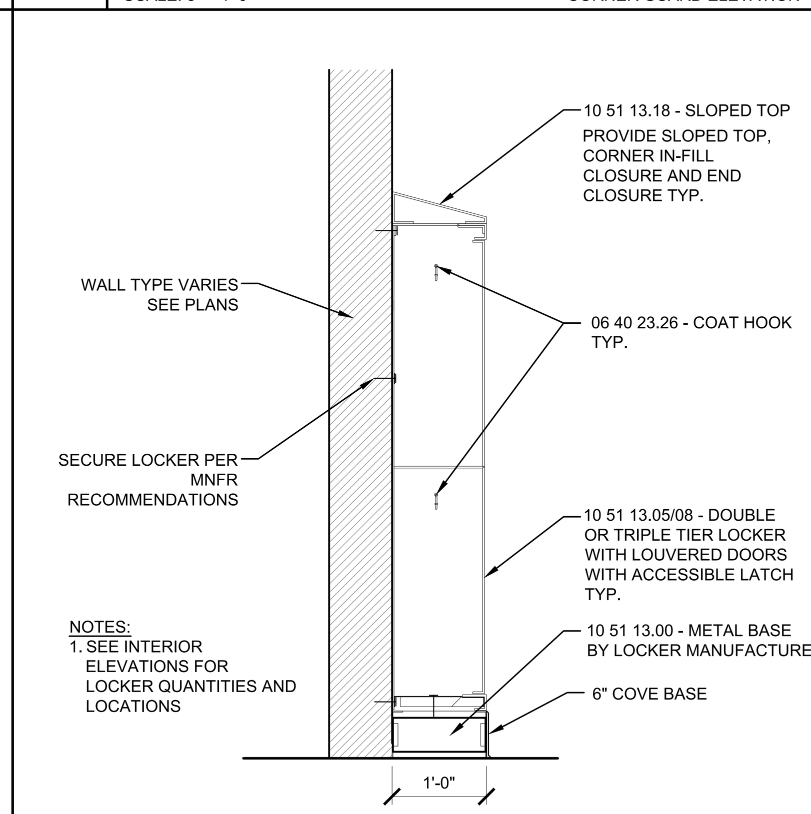
DETAIL NOTES:
1. EXPOSED END PANELS SHALL BE 3/4" MDPB W/ PLAM TYP.



G11 UPPER CABINET
SCALE: 1 1/2" = 1'-0" — UPPER CABINET 2

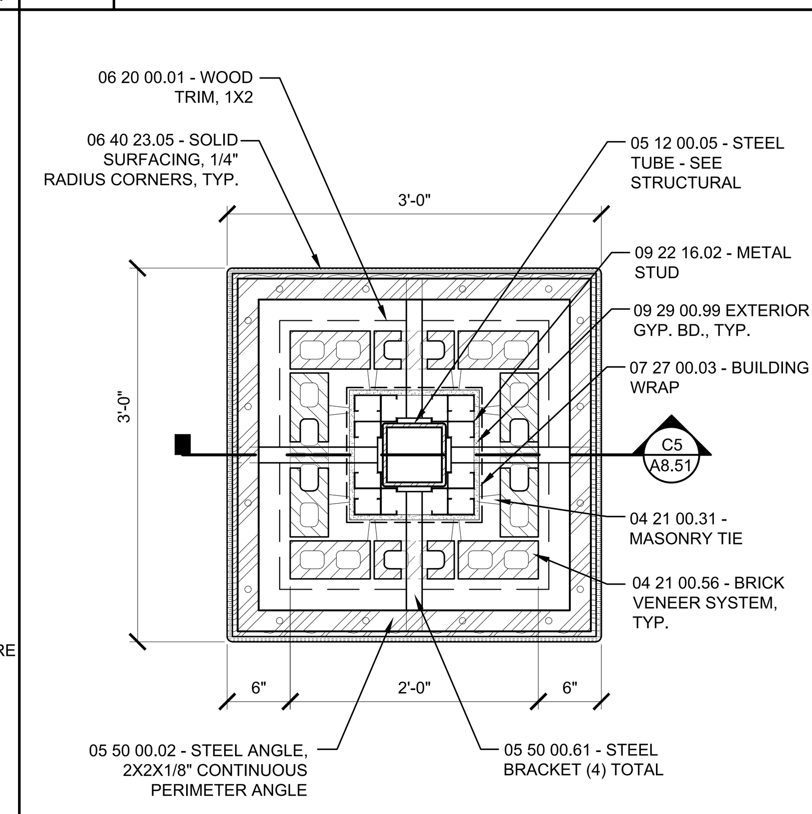


E1 FRP/CHAIR RAIL DETAIL
SCALE: 3" = 1'-0" — FRP CHAIR RAIL



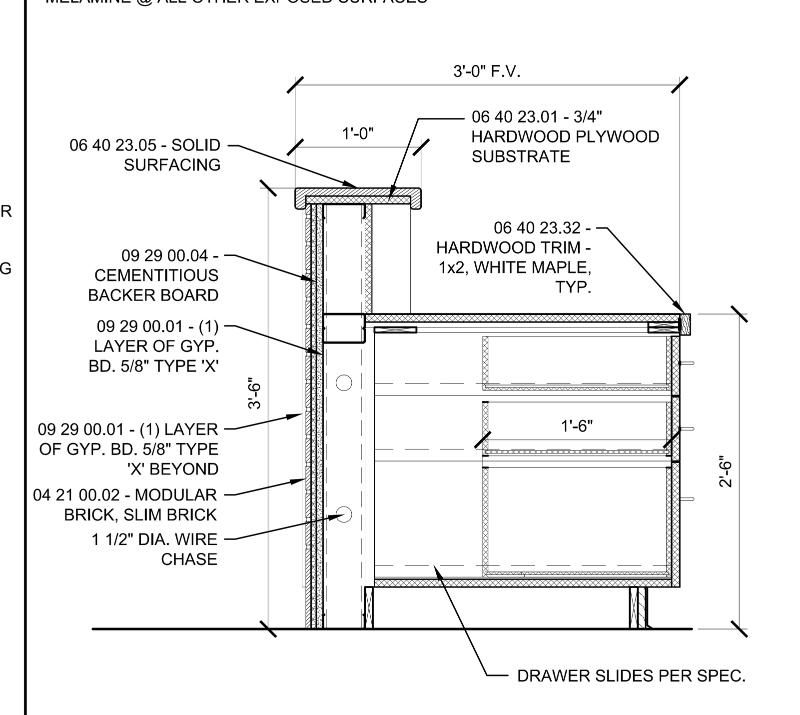
NOTES:
1. SEE INTERIOR ELEVATIONS FOR LOCKER QUANTITIES AND LOCATIONS

E3 LOCKER SECTION
SCALE: 3/4" = 1'-0" — LOCKER SECTION



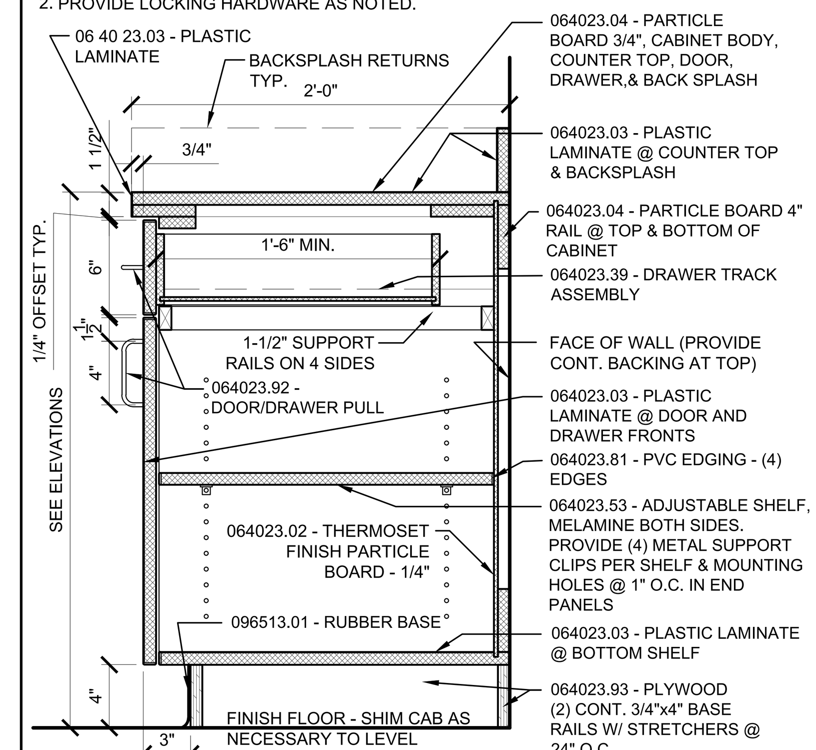
E5 BRICK COLUMN 2
SCALE: 1" = 1'-0" — BRICK COLUMN 2

NOTE:
CABINET BODY-3/4" MDF W/PLAM @ COUNTERTOP, PLAM END PNLS, FACE EDGES. MELAMINE @ ALL OTHER EXPOSED SURFACES



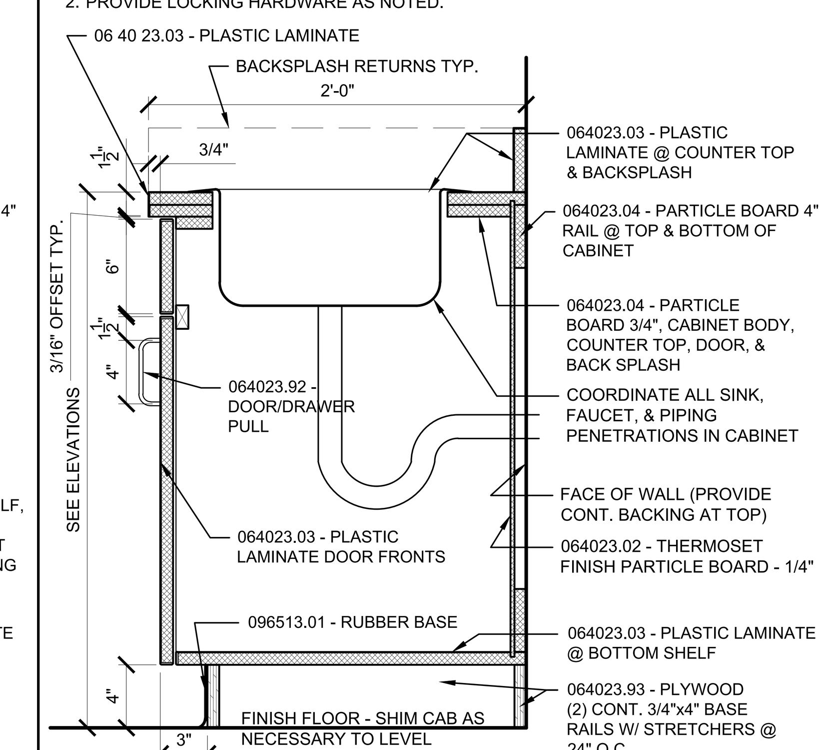
E7 RECEPTION COUNTER
SCALE: 1" = 1'-0" — RECEP. CASEWORK 1

DETAIL NOTES:
1. EXPOSED END PANELS SHALL BE 3/4" MDPB W/ P-LAM TYP.
2. PROVIDE LOCKING HARDWARE AS NOTED.

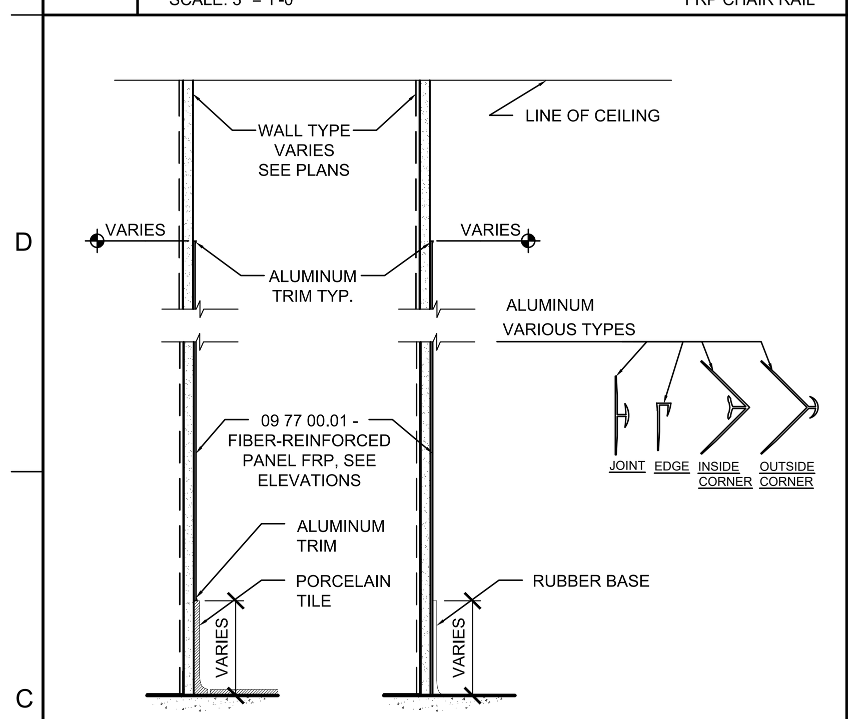


E9 BASE CABINET W/ DOOR & DRAWER
SCALE: 1 1/2" = 1'-0" — BASE CABINET 1

DETAIL NOTES:
1. EXPOSED END PANELS SHALL BE 3/4" MDPB W/ P-LAM TYP.
2. PROVIDE LOCKING HARDWARE AS NOTED.

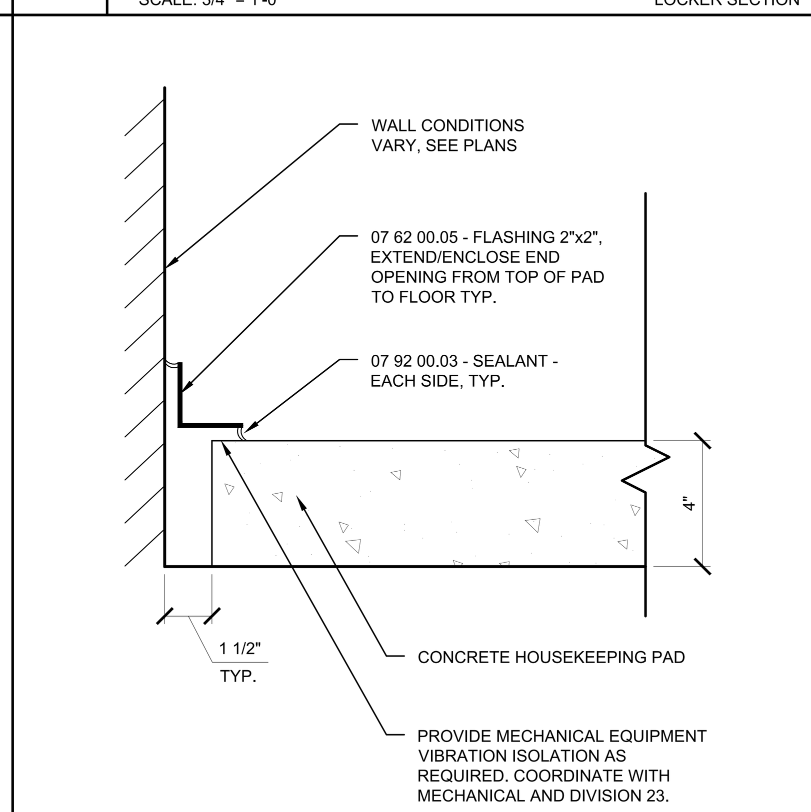


E11 BASE CABINET W/ DOOR & SINK
SCALE: 1 1/2" = 1'-0" — BASE CABINET 2

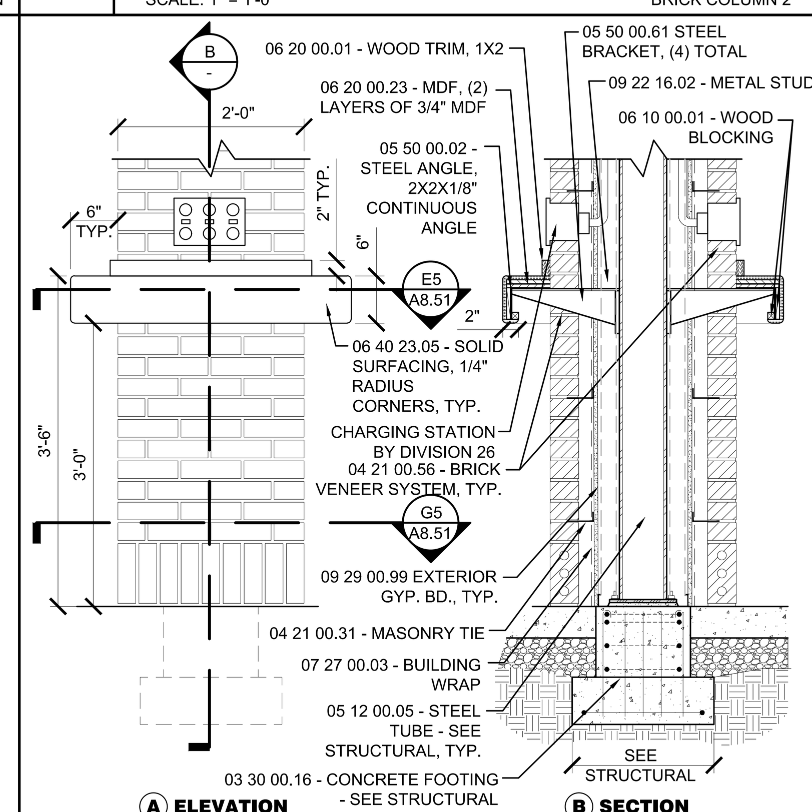


NOTE:
1. COORDINATE VERTICAL ALUMINUM JOINTS WITH WALL HUNG EQUIPMENT. SEE INTERIOR ELEVATIONS.
2. PROVIDE TRIM AT ALL EXPOSED PANEL EDGES.

C1 FRP WALL FINISH
SCALE: 1-1/2" = 1'-0" — FRP WALL



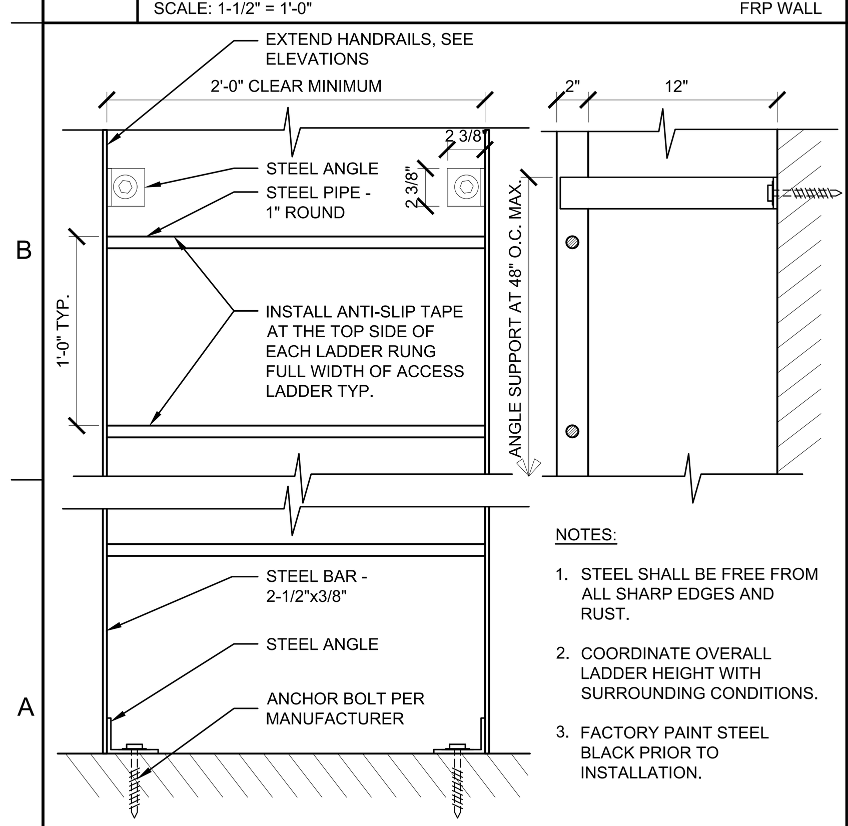
C3 HOUSEKEEPING PAD
SCALE: 3" = 1'-0" — HOUSEKEEPING PAD



C5 CHARGING STATION
SCALE: 3/4" = 1'-0" — CHARGING STATION

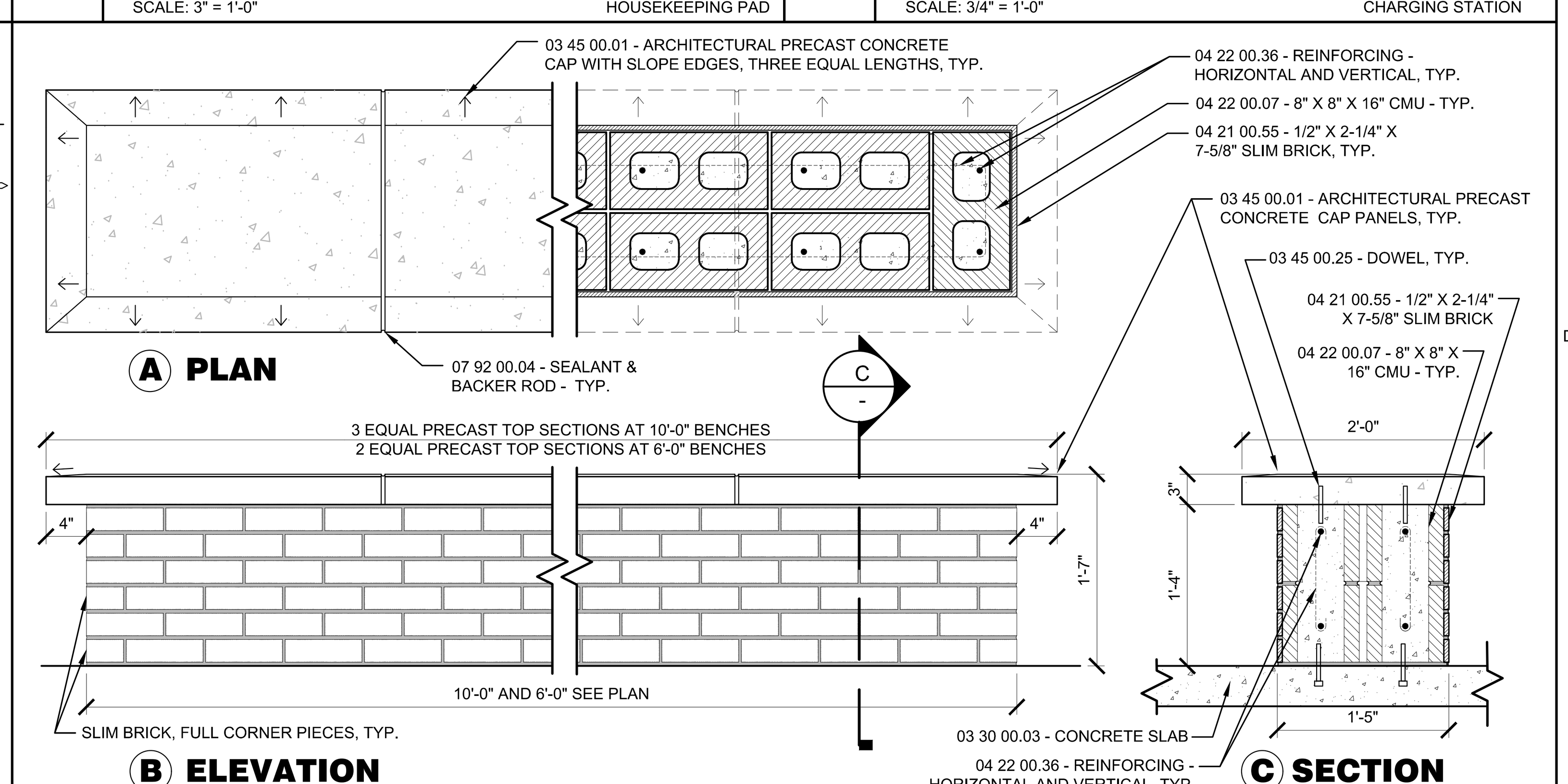
DETAIL NOTES:
1. EXPOSED END PANELS SHALL BE 3/4" MDPB W/ PLAM TYP.

DETAIL NOTES:
1. EXPOSED END PANELS SHALL BE 3/4" MDPB W/ PLAM TYP.
2. PROVIDE KEYED LOCKING HARDWARE ACCESSIBLE FROM THE CORRIDOR.
3. COORDINATE ELECTRICAL LIGHTING.

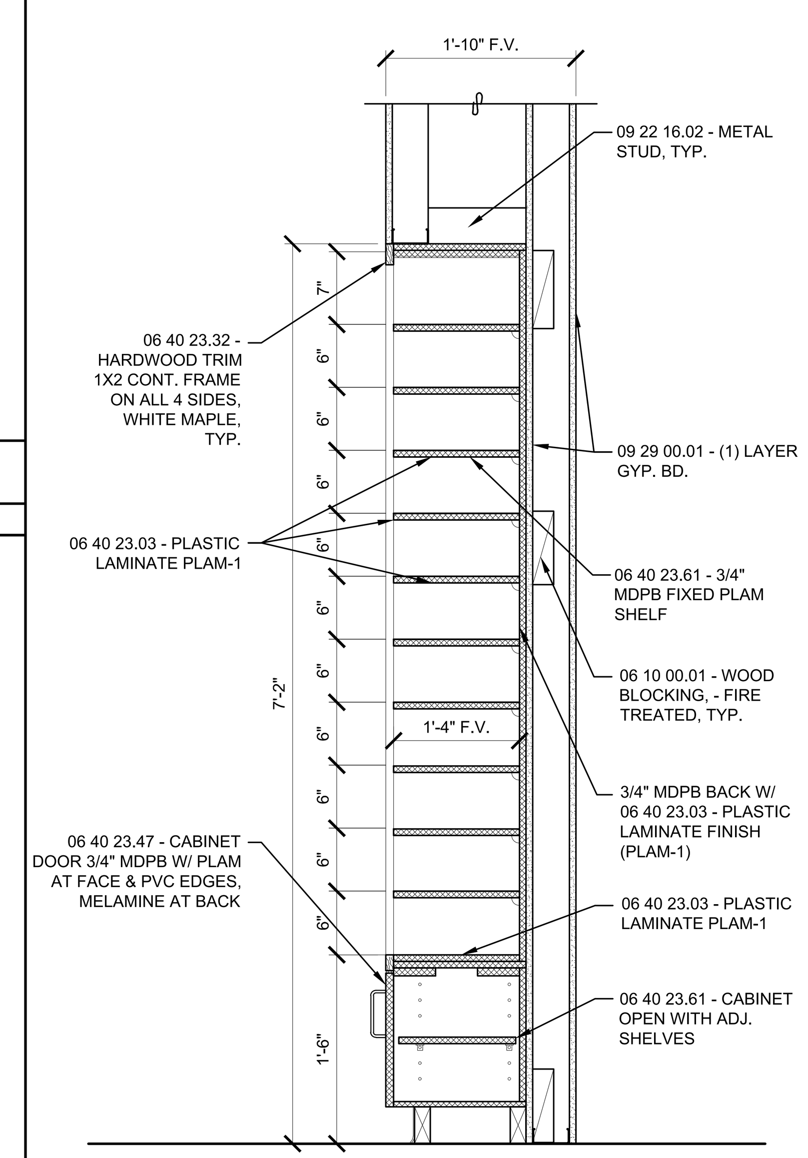


NOTES:
1. STEEL SHALL BE FREE FROM ALL SHARP EDGES AND RUST.
2. COORDINATE OVERALL LADDER HEIGHT WITH SURROUNDING CONDITIONS.
3. FACTORY PAINT STEEL BLACK PRIOR TO INSTALLATION.

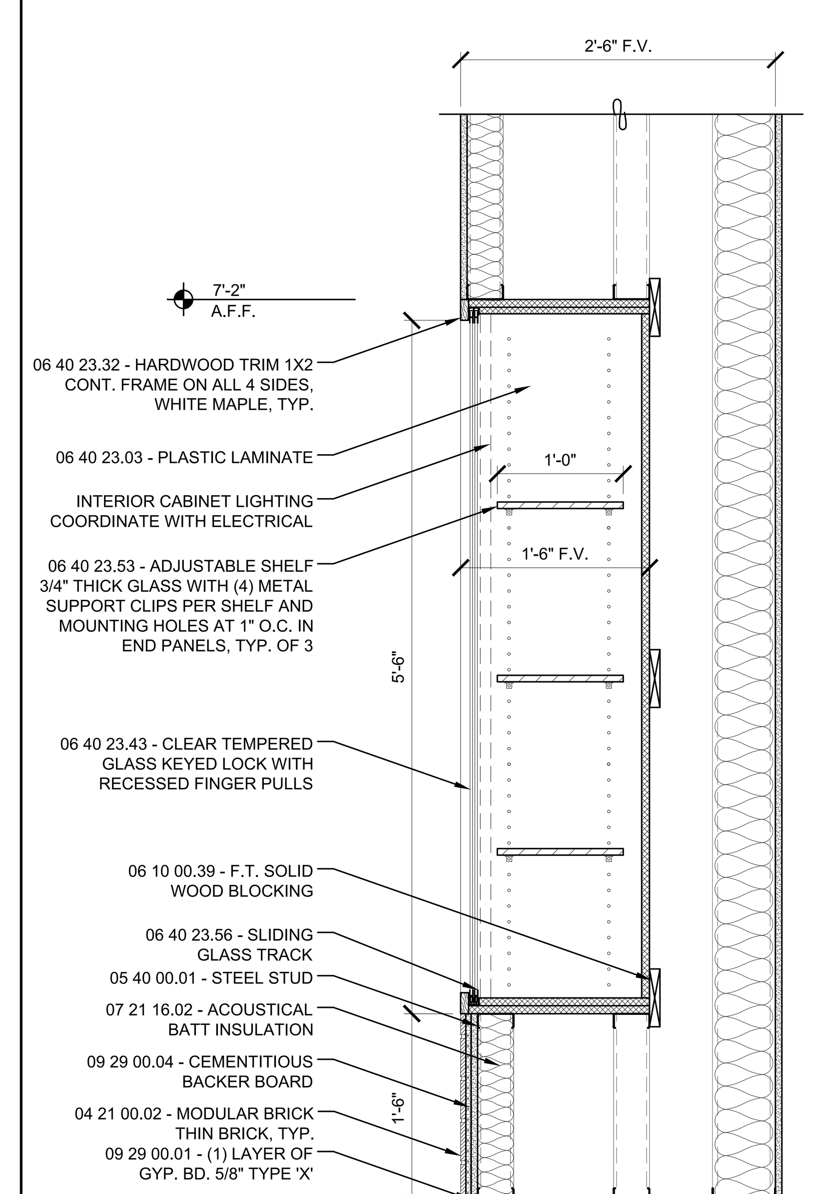
A1 STEEL ACCESS LADDER
SCALE: 1 1/2" = 1'-0" — STEEL LADDER



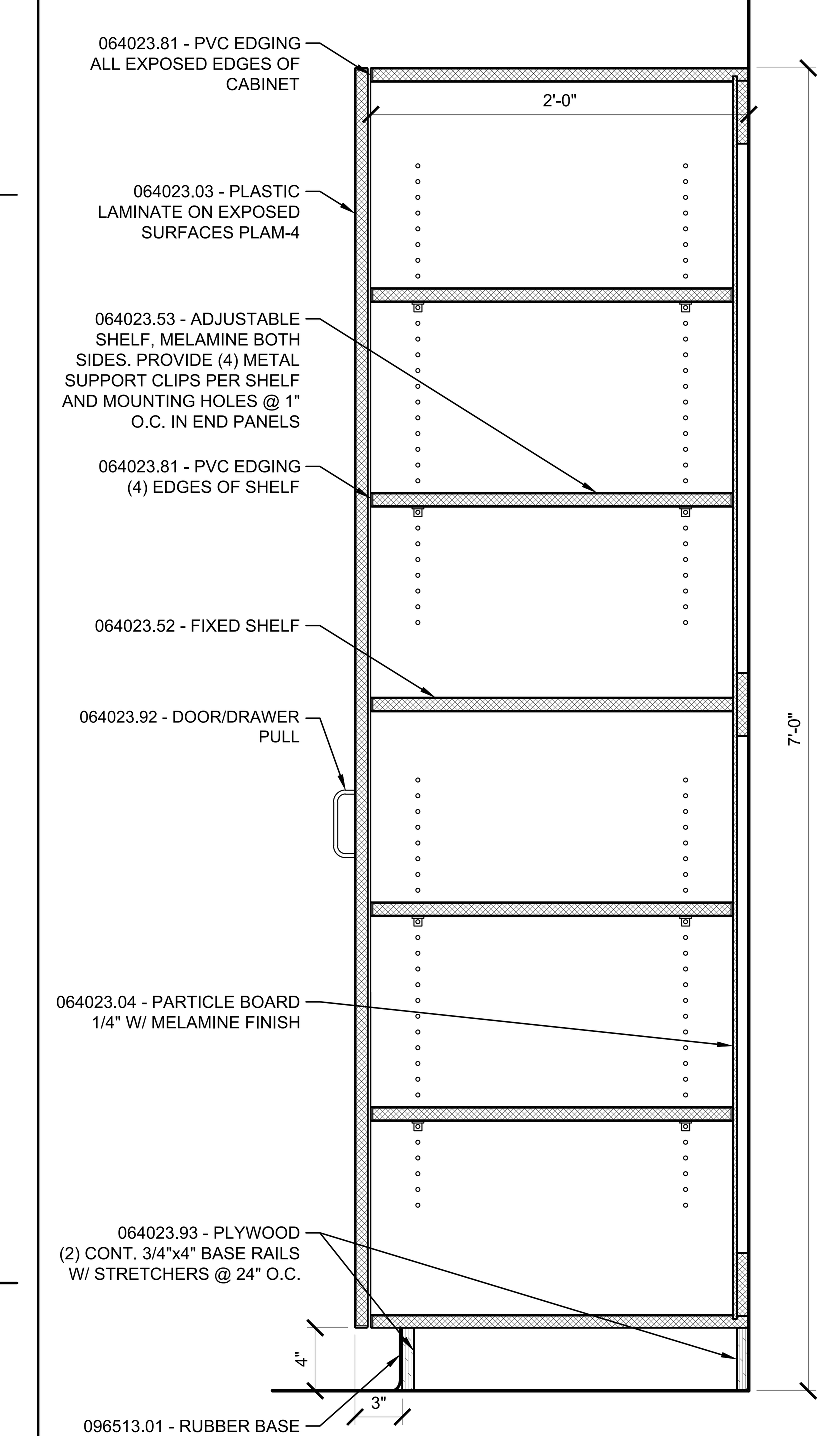
A3 INTERIOR BENCH
SCALE: 1" = 1'-0" — BENCH 1



A7 FACULTY MAIL RECESSED IN WALL
SCALE: 1" = 1'-0" — CABINET VERT 1



A9 SECTION DISPLAY CASE
SCALE: 1" = 1'-0" — CABINET VERT 2



A11 FULL HEIGHT STOR. W/ DOOR
SCALE: 1 1/2" = 1'-0" — STORAGE SHELF 3

1 2 3 4 5 6 7 8 9 10 11 12

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DRAWN BY: AR, AG, AD
CHECKED BY: BW
JOB NUMBER: 23053
REVISIONS

PASCO SCHOOL DISTRICT #1

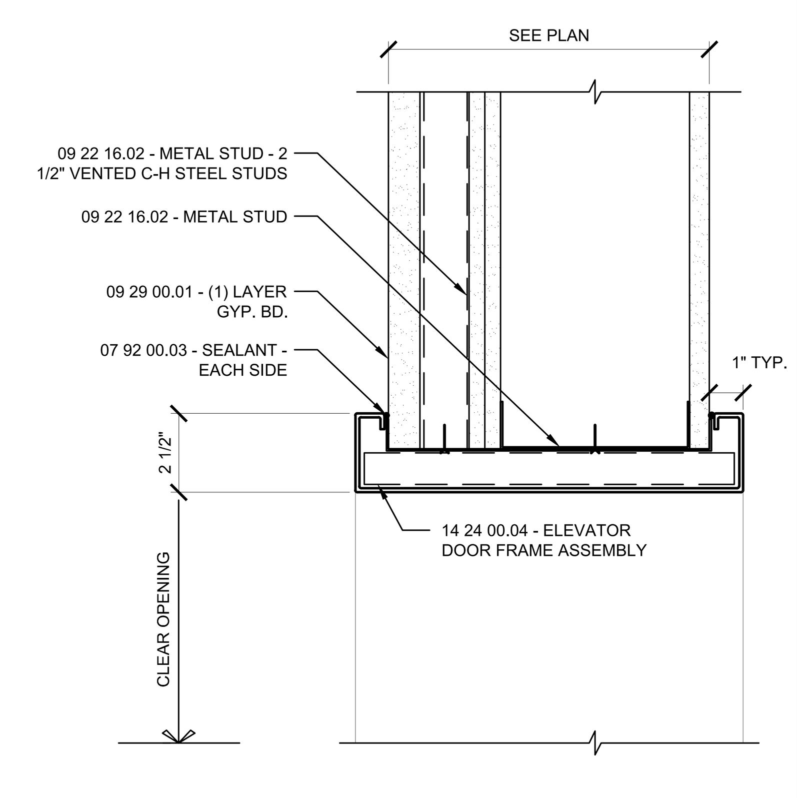
REGISTERED ARCHITECT 9354 — BRANDON D. WILM — STATE OF WASHINGTON — 12/18/23

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

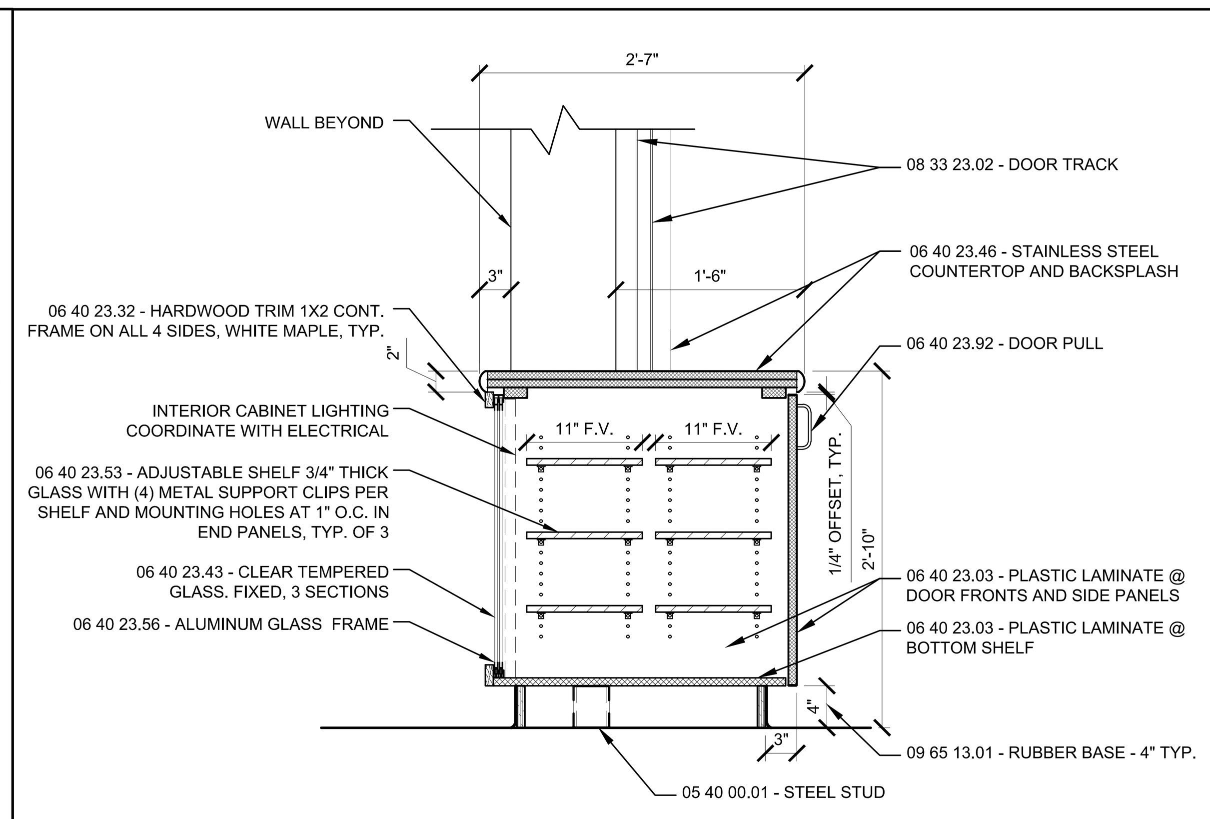
SHEET NAME: INTERIOR DETAILS

SHEET: A8.51



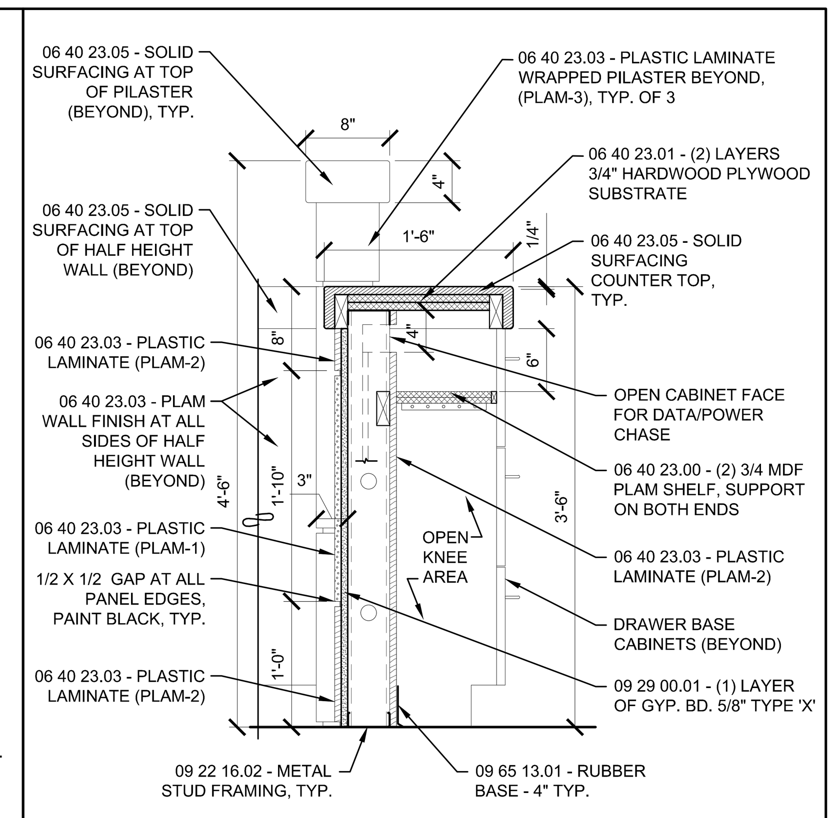
E1 ELEVATOR HEAD/JAMB DETAIL

SCALE: 3" = 1'-0" ELEVATOR HEAD 01



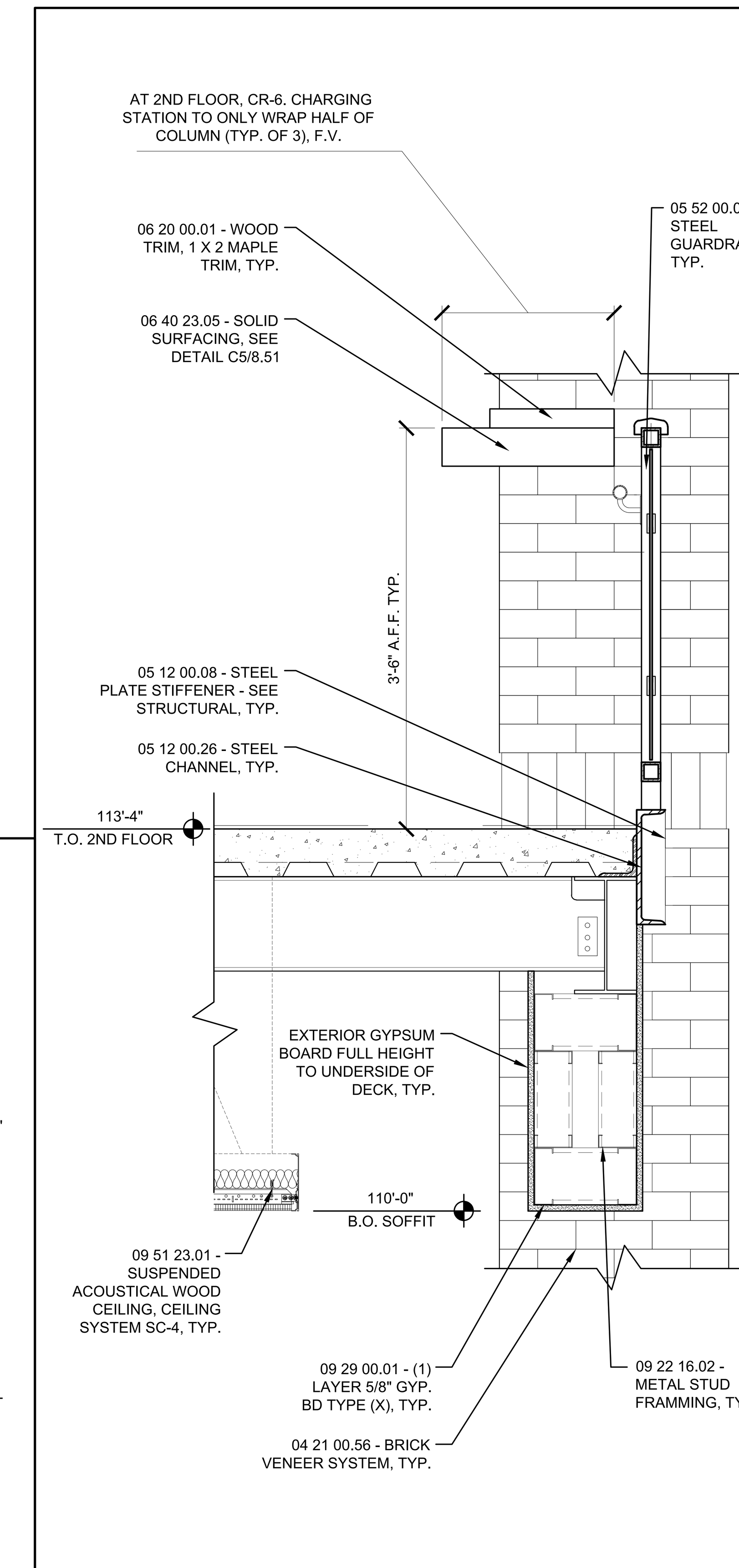
E3 STUDENT STORE BASE CABINET

SCALE: 1" = 1'-0" BASE CABINET 3



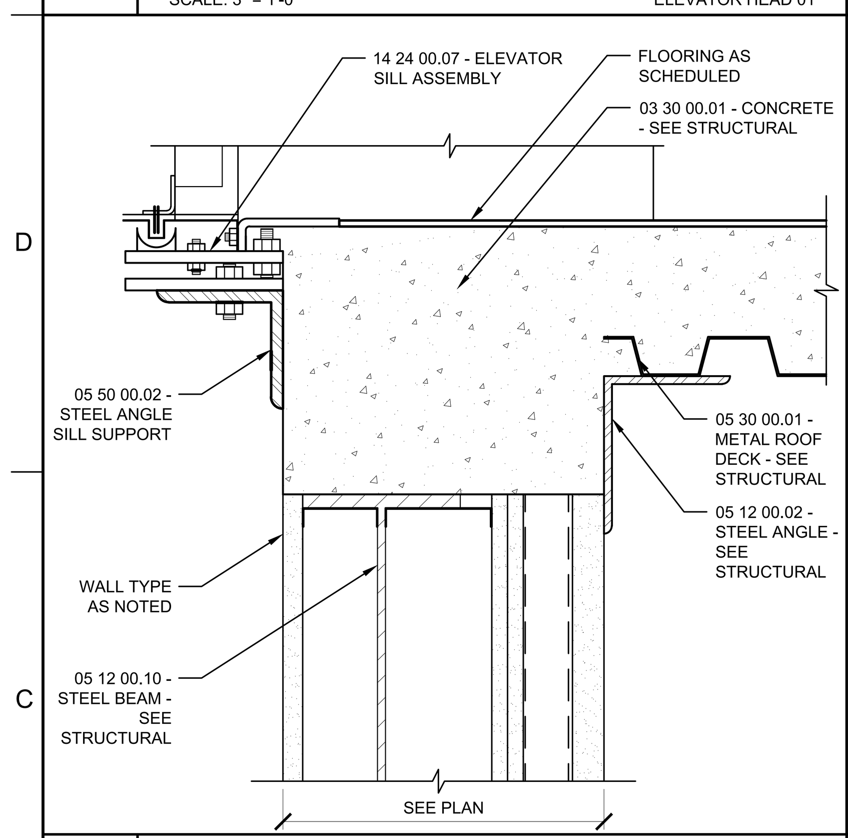
E6 CREDIT UNION COUNTER

SCALE: 1" = 1'-0" CREDIT UNION CASEWORK 1



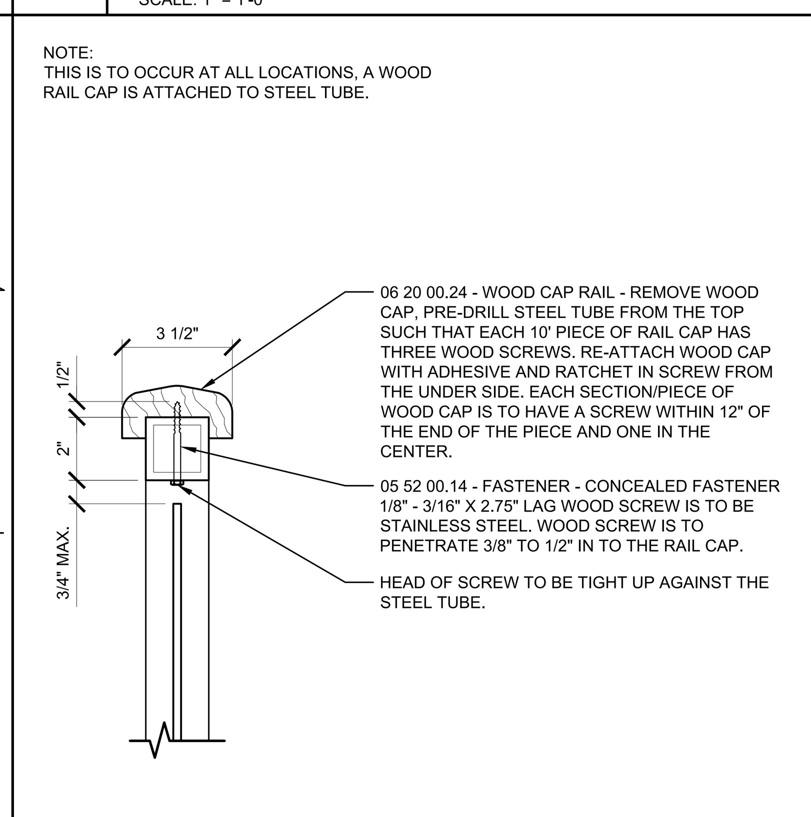
C11 C CHANNEL HEADER

SCALE: 1" = 1'-0" C CHANNEL HEADER



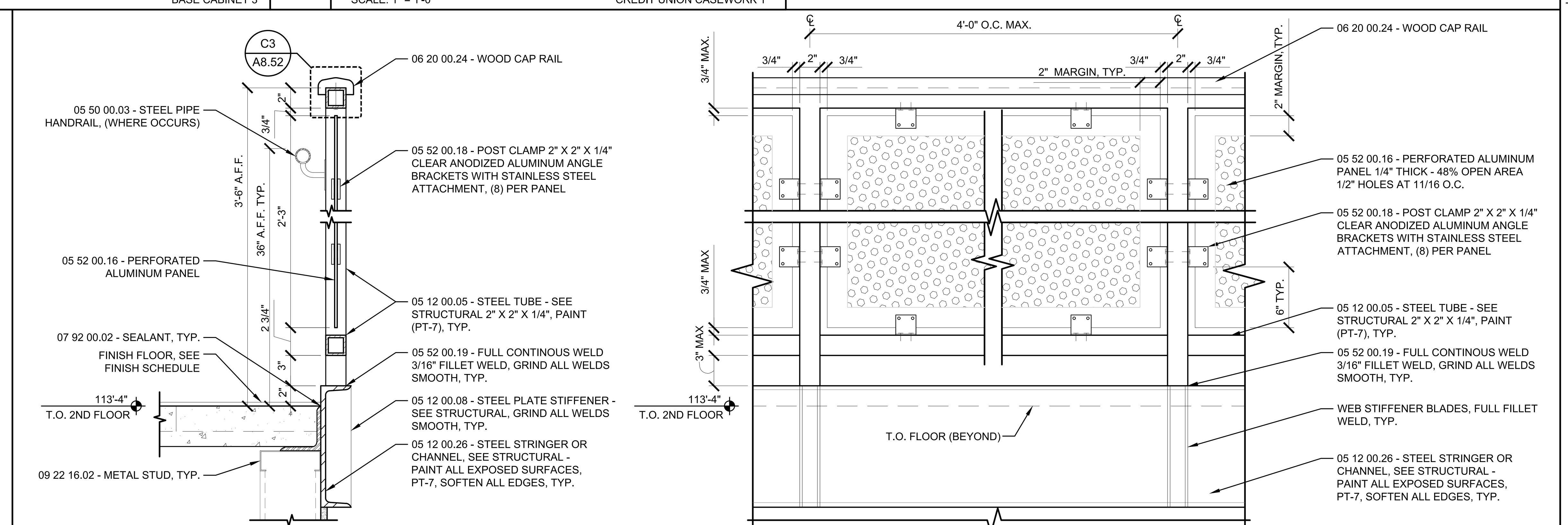
C1 ELEVATOR SILL AT 2ND FLOOR

SCALE: 3" = 1'-0" ELEVATOR SILL 02



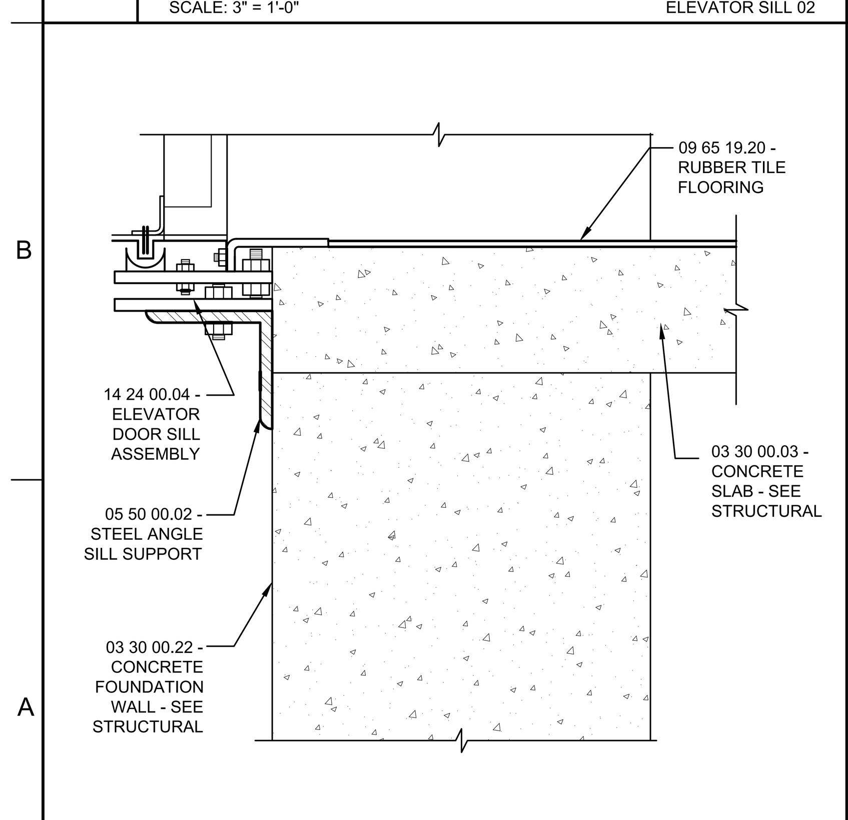
C3 RAIL CAP

SCALE: 3" = 1'-0" RAIL CAP



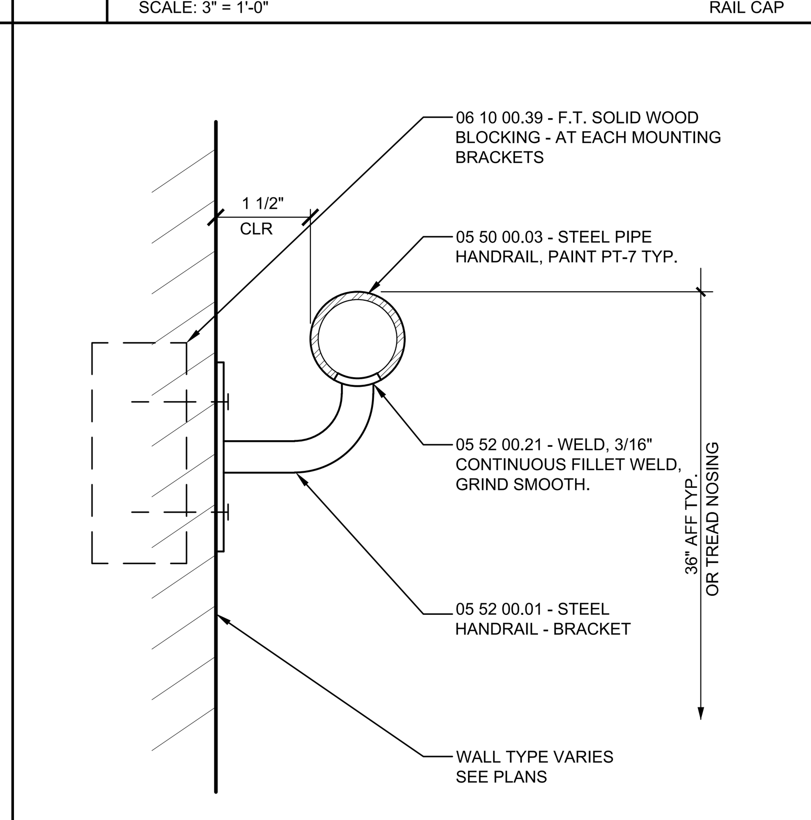
C5 GUARDRAIL

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



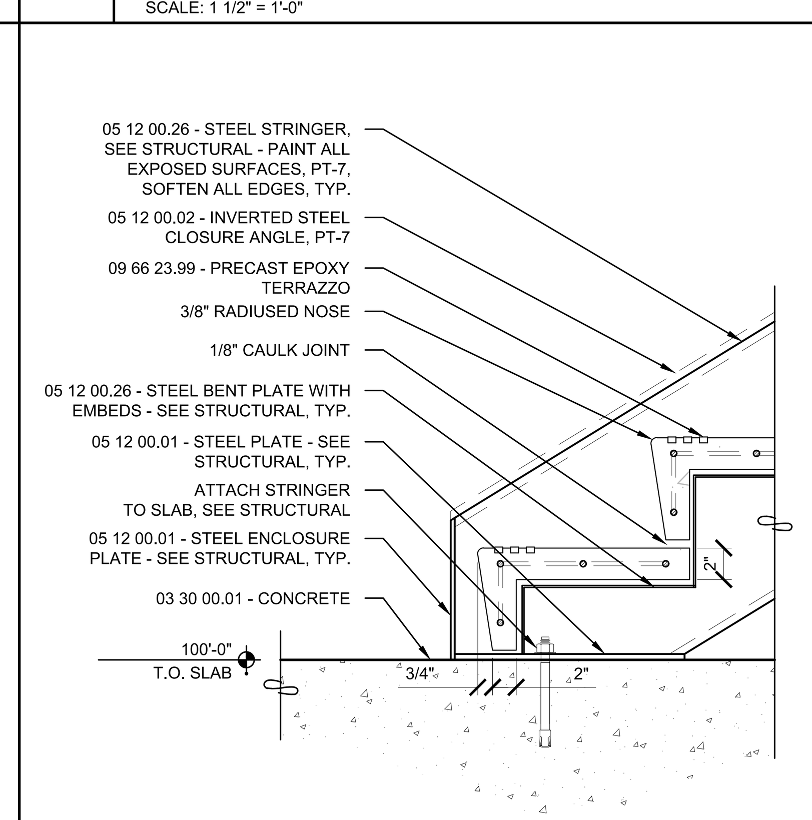
A1 ELEVATOR SILL AT GROUND LEVEL

SCALE: 3" = 1'-0" ELEVATOR SILL 01



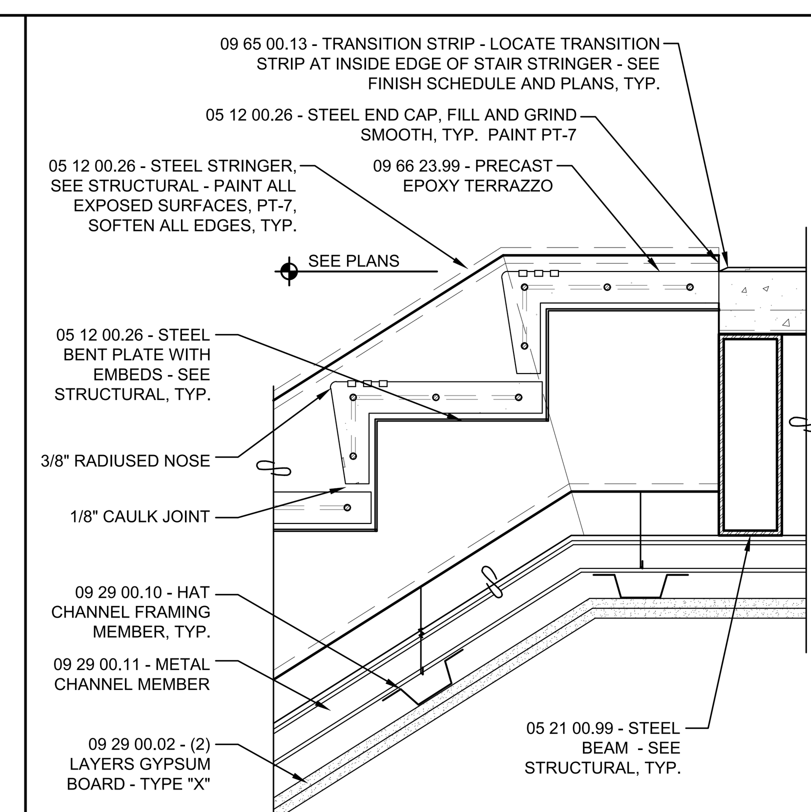
A3 HANDRAIL SECTION

SCALE: HALF HANDRAIL



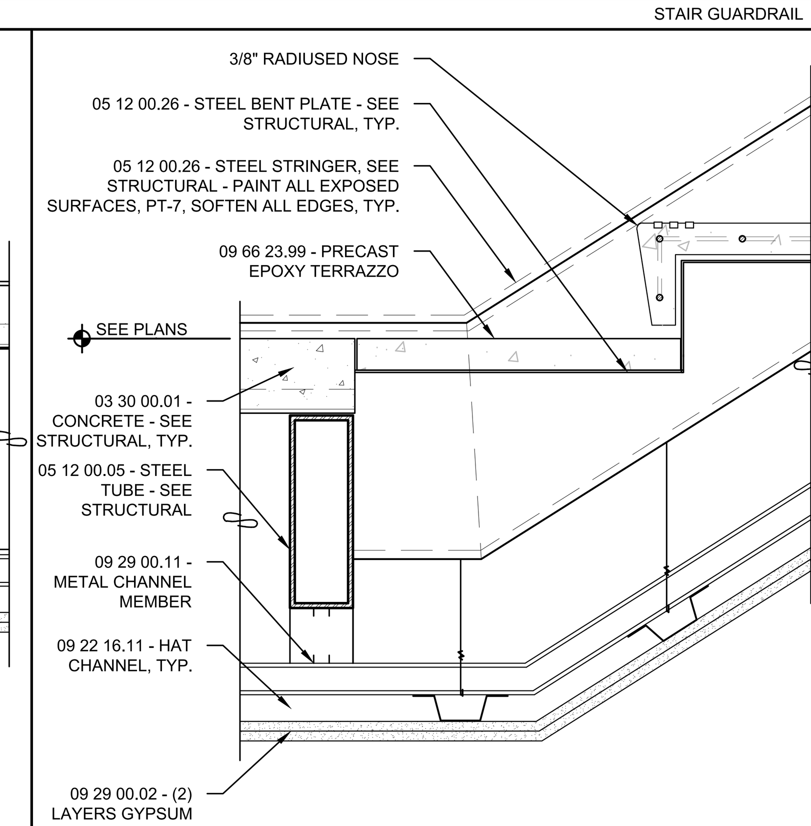
A5 STRINGER AT FLOOR

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



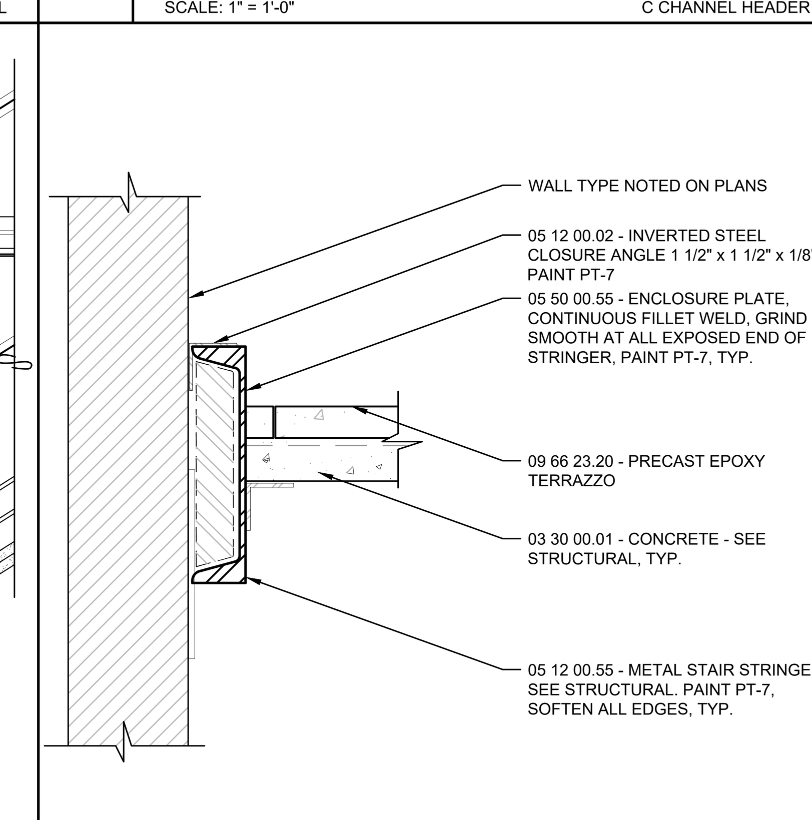
A7 STRINGER AT LANDING

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



A9 STRINGER AT LANDING

SCALE: 1 1/2" = 1'-0" STAIR DETAIL 3



A11 STRINGER AT WALL

SCALE: 1 1/2" = 1'-0" STAIR DETAIL 4

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REVISIONS

PASCO SCHOOL DISTRICT #1

9354 REGISTERED ARCHITECT BRANDON D. WILM STATE OF WASHINGTON

PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **INTERIOR DETAILS**

SHEET: **A8.52**

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND LOCAL RULES/STANDARDS OF GOVERNING AGENCIES HAVING JURISDICTION.

2. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS.

3. ANY ERRORS, AMBIGUITIES, AND OMISSION IN DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR CORRECTION BEFORE ANY PART OF THE WORK IS STARTED. SUBSTITUTION OR CHANGES WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING.

4. PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

5. ELEVATIONS ON THE STRUCTURAL DRAWINGS REFERENCE THE FINISHED FLOOR ELEVATION, ASSIGNED THE DATUM 100'-0".

6. THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN IT'S COMPLETED STATE. WHILE UNDER CONSTRUCTION, ALL TEMPORARY BRACING AND/OR SHORING REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING DESIGN AND INSTALLATION.

7. PLAN DIMENSIONS PROVIDED ARE TO FACE STEM WALL AND CENTER OF COLUMNS.

8. DESIGN CRITERIA (PER 2021 IBC AND ASCE 7-16)

8.1 RISK CATEGORY III

8.2 VERTICAL LOADS:

SEE LOADING PLAN SHEETS FOR UNIFORM DEAD LOADS, UNIFORM LIVE LOADS, UNIFORM SNOW LOADS, DRIFT SNOW LOADS, AND COMPONENT WIND UPLIFT LOADS.

A. DEAD LOADS:

ROOF (FLAT)	13 PSF + FRAMING
FLOOR	52 PSF + FRAMING
PARTITION	15 PSF
COLLATERAL FLOOR LOAD:	
CLASSROOMS	10 PSF
CORRIDORS	20 PSF
HVAC ON CONCRETE CURBS	80 PSF
MECHANICAL ROOM W/O CONCRETE CURB	40 PSF
FUTURE SOLAR ZONE ON ROOF	4 PSF
WITH 175# UNIT FOR EVERY 1000 SF OF SOLAR.	
MECHANICAL UNITS ON ROOF PER MECHANICAL DRAWINGS OR AS NOTED ON PLANS	

B. LIVE LOADS (IBC 1607):

CORRIDORS FIRST FLOOR	100 PSF
CORRIDORS OTHER THAN FIRST FLOOR	80 PSF
CLASSROOMS AND MECHANICAL ROOMS	40 PSF
STAIRS / EXITS	100 PSF
OFFICES	50 PSF
STRUCTURAL DESIGN OF ELEVATED FLOOR FRAMING INCORPORATES LIVE LOAD REDUCTIONS IN ACCORDANCE WITH IBC SECTION 1607.10	
ROOF LIVE LOAD	20 PSF

C. SNOW LOADS:

GROUND SNOW LOAD	Pg=20 PSF
MINIMUM UNIFORM ROOF SNOW LOAD	Pm=22 PSF
SNOW EXPOSURE FACTOR:	Ce=1.0
SNOW LOAD IMPORTANCE FACTOR:	Is=1.10
THERMAL FACTOR:	Ct=1.0
SLOPE FACTOR	Cs=1.0
FLAT ROOF SNOW LOAD	Pf=15.4 PSF

D. ROOF RAIN LOAD DATA:

RAIN INTENSITY	1" PER HOUR

8.3 LATERAL LOADS:

A. WIND DESIGN LOAD DATA:

VELOCITY (3-SEC.-GUST)	V (ULT) = 107 MPH / V (ASD) = 83 MPH
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	±0.18

MAXIMUM COMPONENTS AND CLADDING DESIGN WIND FORCES (IBC 1603.1.4)

WALLS	SF	ULTIMATE	ALLOWABLE
WITHIN 11 FT OF ZONE 5	10	-36.93 PSF	-17.95 PSF
10 SF REMAINDER OF WALL	500	-29.92 PSF	-22.16 PSF
	500	-22.91 PSF	-13.74 PSF
FLAT ROOF			
WITHIN 16 FT OF CORNER	10	-79.01 PSF	-47.40 PSF
	500	-36.93 PSF	-22.20 PSF
WITHIN 16 FT OF EDGE NOT AT CORNER	10	-57.97 PSF	-34.78 PSF
	500	-36.93 PSF	-22.20 PSF
BETWEEN 16 FT TO 32 FT TO EDGE	10	-57.97 PSF	-34.78 PSF
	500	-36.93 PSF	-22.20 PSF
FURTHER THAN 32 FT TO EDGE	10	-57.97 PSF	-34.78 PSF
	500	-36.93 PSF	-22.20 PSF
2:12 ROOF			
WITHIN 11 FT TOP ROOF EDGE CORNER AT RIDGE	10	-88.36 PSF	-53.0 PSF
	250	-46.28 PSF	-27.80 PSF
GRIDS I & 11 INTERIOR OVERHANG	10	-109.86 PSF	-65.90 PSF
	250	-53.76 PSF	-32.30 PSF
OVERHANG AT EAVE AT CORNER	10	-95.84 PSF	-57.70 PSF
	250	-35.06 PSF	-21.00 PSF
OVERHANG AT EAVE NOT AT CORNER	10	-58.40 SF	-35.00 PSF
	250	-35.06 PSF	-21.00 PSF
OVERHANG PARALLEL TO JOISTS	10	-58.44 PSF	-35.10 PSF
	250	-46.75 PSF	-28.10 PSF
WITHIN 11 FT OF RIDGE OR EDGE OF ROOF PARALLEL TO JOISTS NOT AT CORNER OR OVERHANG	10	-74.33 PSF	-44.60 PSF
	250	-27.58 PSF	-16.60 PSF
ALL OTHER INTERIOR ROOF AREAS	10	-50.98 PSF	-30.60 PSF
	250	-16.00 PSF	-9.60 PSF
3.25:12 ROOF			
21'-4" FROM PEAK EDGE OF ROOF FROM THE ROOF CORNER IN 42'-8"	10	-72.00 PSF	-43.20 PSF
	100	-50.96 PSF	-30.60 PSF
21'-4" FROM PEAK EDGE OF ROOF FROM THE ROOF CORNER IN 42'-8" AT OVERHANGS	10	-107.0 PSF	-64.20 PSF
	100	-88.00 PSF	-52.8 PSF
21'-4" FROM PEAK NOT INCLUDING UPPER CORNERS, EDGES, AND EAVE TO 11FT	10	-41.61 PSF	-25.00 PSF
	100	-32.25 PSF	-19.40 PSF
21'-4" FROM PEAK NOT INCLUDING UPPER CORNERS, EDGES, AND EAVE TO 11FT AT OVERHANGS	10	-71.61 PSF	-43.00 PSF
	100	-60.00 PSF	-36.00 PSF
REMAINDER OF THE ROOF	10	-34.60 PSF	-20.80 PSF
	100	-29.92 PSF	-18.00 PSF

B. SEISMIC DESIGN LOAD DATA:

IMPORTANCE FACTOR	1.25
RHO (N-S)	1.0
RHO (E-W)	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	
Ss =	0.396
S1 =	0.151
SEISMIC SITE CLASS	D
DESIGN SPECTRAL RESPONSE COEFFICIENTS:	
Sds =	0.392
Sd1 =	0.231
SEISMIC DESIGN CATEGORY	D
SEISMIC FORCE RESISTING SYSTEM AND RESPONSE MODIFICATION FACTOR:	
SPECIAL STEEL CONCENTRICALLY BRACED FRAMES	R = 6.0
SEISMIC RESPONSE COEFFICIENT	
Cs	0.0817
DESIGN BASE SHEAR	0.0817W
ANALYSIS PROCEDURE:	
EQUIVALENT LATERAL FORCE PER ASCE 7-16, 12.8	

FOUNDATIONS

1. FOUNDATION DESIGN SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT 223-1666 BY GN NORTHERN, INC. DATED JULY 2023.

2. FOUNDATION DESIGN IS BASED ON THE ALLOWABLE SOIL PROPERTIES:

SOIL BEARING	2000 PSF
COEFFICIENT OF FRICTION	0.45
LATERAL BEARING PRESSURE	225 PSF/FT

3. FOR FOUNDATION AND BUILDING PAD SUBGRADE SOIL PREPARATION, CONTRACTOR SHALL OVER EXCAVATE TO A POINT 2'-0" BELOW THE BOTTOM OF THE DEEPEST FOOTING AND TO A POINT 5'-0" BEYOND THE OTHER EDGE OF ALL BUILDING FOOTINGS. AFTER THE MATERIAL HAS BEEN OVER EXCAVATED, THE EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 12" AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557. AFTER SUBGRADE HAS BEEN COMPACTED, THE OVER EXCAVATED SOILS CAN BE PLACED AND COMPACTED IN 8" LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.

4. ALL FOOTINGS SHALL BE PLACED OVER 12" OF COMPACTED 1 1/4" MINUS IMPORTED CRUSHED ROCK STRUCTURAL FILL. THE CRUSHED ROCK SHALL EXTEND A MINIMUM OF 24" BEYOND THE SIDE OF THE FOOTINGS. STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM RELATIVE PROCTOR DRY DENSITY.

5. ALL INTERIOR CONCRETE SLABS SHALL BE PLACED OVER 6" OF WSDOT STANDARD CRUSHED SURFACING TOP COURSE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.

CONCRETE

1. STRUCTURAL CONCRETE COMPRESSIVE STRENGTHS AND AIR ENTRAINMENT SHALL BE AS FOLLOWS:
   A. FOUNDATIONS AND INTERIOR STEM WALLS AND PEDESTALS - 3,000 PSI AND NO ADDED AIR ENTRAINMENT.
   B. EXTERIOR STEM WALLS AND PEDESTALS - 4,500 PSI AND 6% AIR-ENTRAINMENT.
   C. INTERIOR ELEVATED AND SLABS ON GRADE - 4,000 PSI AND NO ADDED AIR.
   D. EXTERIOR SLABS ON GRADE - 4,000 PSI AND 6% AIR-ENTRAINMENT.

2. WHERE CALLED FOR ON THE DRAWINGS, FLOOR SLABS ARE TO BE REINFORCED WITH WELDED WIRE FABRIC WHICH SHALL BE PLACED IN FLAT SHEETS (NOT ROLLS), AND SHALL BE LAPPED TWO FULL MESHES OF FABRIC. Fy=60 KSI.

3. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS COMPLYING WITH ASTM SECTION A615. REINFORCING STEEL WHICH IS INDICATED ON THE PLANS AS BEING WELDED OR AS PART OF SPECIAL SHEAR WALLS OR SPECIAL MOMENT FRAMES SHALL COMPLY WITH ASTM A706 Fy=60 KSI, AND SHALL ALSO BE DEFORMED.

4. REINFORCEMENT LAP HOOKS, ETC.; SHALL BE PER THE REINFORCEMENT TABLE UNLESS NOTED OTHERWISE.

5. THE FOLLOWING MINIMUM 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"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      SLABS, WALLS, JOISTS
      #11 BAR AND SMALLER: 3/4"
   D. REINFORCING SHALL EXTEND TO THE END OF THE CONCRETE AND MAINTAIN THE COVER LISTED ABOVE AT THE ENDS.

6. ALL EXPOSED CORNERS OF CONCRETE SHALL BE FORMED INTO A 3/4" x 45 DEGREE CHAMFER, OR SCRIBED WITH A CONCAVE TOOLING DEVICE UNLESS NOTED OTHERWISE.

7. PROVIDE (1) 4'-0" LONG #4 REBAR AT ALL RE-ENTRANT CORNERS FOR SLABS, PITS, RECESSES, OR SLAB THICKNESS CHANGES IN THE TOP 1/3 OF THE SLAB-ON-GRADE.

CONCRETE - POST INSTALLED ANCHORS

1. SPECIAL INSPECTIONS ARE REQUIRED PER IBC CHAPTER 17.

2. ANCHORS SHALL BE INSTALLED IN CONCRETE THAT IS A MINIMUM OF 21 DAYS OR AS RECOMMENDED BY THE MANUFACTURER.

3. ADHESIVE ANCHORS SHALL CONFORM TO THE FOLLOWING:
   A. HILTI HIT-HY 200 FAST CURE HYBRID ADHESIVE PER ESR-3187 OR DEWALT AC200+ PER ESR-4027 OR SIMPSON STRONG TIE SET-3G INSTALL PER ESR-4057.
   B. ANCHORS SHALL BE ASTM F1554 GRADE 36 THREADED ROD
   C. EXTERIOR ANCHORS TO BE GALVANIZED.

4. EXPANSION ANCHORS SHALL CONFORM TO THE FOLLOWING:
   A. HILTI KWIK BOLT-TZ2 EXPANSION ANCHORS INSTALL PER ESR-4266 OR DEWALT POWER STUD +SD2 INSTALL PER ESR-2502 OF SIMPSON STRONG TIE BOLT 2 INSTALL PER ESR-3037.
   B. EXTERIOR ANCHORS SHALL BE STAINLESS STEEL OR GALVANIZED.

5. SCREW ANCHORS SHALL CONFORM TO THE FOLLOWING:
   A. SIMPSON STRONG TIE TITEN HD ANCHORS INSTALL PER ESR-2713
      OR HILTI KH-EZ INSTALL PER ESR-3027
      OR DEWALT SCREW-BOLT+ INSTALL PER ESR-3889
   B. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL OR GALVANIZED.

6. SUBSTITUTION OF MANUFACTURED PRODUCT IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD IN WRITING.

CAST-IN-PLACE ANCHORS

1. ANCHORS SHALL BE ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE.
   ASTM F1554 GRADE 50 AT BRACED FRAMES

2. FURNISH ANCHORS PREFABRICATED WITH DOUBLE HEAVY HEX NUTS JAMMED AT THE END EMBEDDED IN CONCRETE. WALL PLATE OR TRACK ANCHORS MAY BE L BOLTS WITH 6" MINIMUM EMBEDMENT.

3. FURNISH WASHERS AND HEAVY HEX NUTS FOR SECURING THE BASE PLATE TO THE ANCHORS.

4. NO HEATING OR BENDING OF THE ANCHORS IS PERMITTED.

5. POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIALS, ALL CAST IN PLACE ANCHORS AND OTHER EMBEDDED ITEMS BEFORE PLACING CONCRETE IN FORMS.

6. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL OR GALVANIZED.

MASONRY

1. MATERIALS:
   COMPRESSIVE STRENGTH OF MASONRY:

	STRUCTURAL	VENEER
CMU f'm=	2000 PSI	1750 PSI
CLAY BRICK MASONRY f'm=	2000 PSI	1500 PSI
CONCRETE BLOCK (CMU)	2000 PSI	2000 PSI
MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90 WITH MAXIMUM LINEAR SHRINKAGE OF 0.065%		
CLAY BRICK UNITS PER ASTM C62, C216, OR C652	4950 PSI	4150 PSI
GROUT (AT 28 DAYS) f'g:	2000 PSI	
MORTAR ASTM C270	TYPE S	TYPE N

2. ALL MASONRY SHALL BE PROVIDED WITH A FULL WYTHE MORTAR SETTING BED ON TOP OF THE SUPPORTING FOUNDATIONS.

3. CMU PLACED BELOW GRADE SHALL BE PLAIN FACED AND FULLY GROUTED.

4. REINFORCING STEEL BARS AND RODS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED. REINFORCING STEEL BARS THAT ARE TO BE WELDED SHALL CONFORM TO ASTM A706, Fy=60KSI, DEFORMED.

5. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. UNLESS OTHERWISE INDICATED, VERTICAL WALL REINFORCEMENT SHALL EXTEND TO WITHIN 2 INCHES OF TOPS OF WALLS. VERTICAL BARS SHALL BE ACCURATELY PLACED WITHIN THE CELLS AT THE POSITIONS INDICATED ON THE DRAWINGS. A MINIMUM CLEARANCE OF 1/2 INCH SHALL BE MAINTAINED BETWEEN THE BARS AND MASONRY UNITS. MINIMUM CLEARANCE BETWEEN PARALLEL BARS SHALL BE ONE DIAMETER OF THE REINFORCEMENT OR 1" WHICHEVER IS GREATER. VERTICAL REINFORCING MAY BE HELD IN PLACE USING BAR POSITIONERS LOCATED NEAR THE ENDS OF EACH BAR AND AT INTERMEDIATE INTERVALS OF NOT MORE THAN 192 DIAMETERS OF THE REINFORCEMENT.

6. CELLS CONTAINING REINFORCING BARS SHALL BE FILLED WITH GROUT. VOIDS AT DOOR JAMBS, AND OTHER INDICATED VOIDS SHALL BE FILLED SOLID WITH GROUT. CELLS UNDER LINTEL BEARINGS ON EACH SIDE OF OPENINGS SHALL BE FILLED SOLID WITH GROUT FOR FULL HEIGHT OF OPENINGS. LINTELS AND BOND BEAMS SHALL BE FILLED SOLID WITH GROUT. SEE SECTIONS AND DETAILS FOR ADDITIONAL CELLS TO BE FILLED SOLID WITH GROUT.

7. CONTROL AND EXPANSION JOINTS FOR MASONRY SHALL BE LOCATED WHERE SHOWN ON THE PLANS.

8. CONDUITS, PIPES, AND SLEEVES PENETRATING CMU WALLS SHALL NOT BE CLOSER THAN 3 DIAMETERS ON CENTER EACH WAY AND SHALL NOT BE PLACED WITHIN 16" OF ANY MASONRY EDGE OR JOINT. IN ADDITIONAL, ALL PENETRATIONS MUST BE PLACED TO AVOID CUTTING REINFORCING.

9. VERTICAL CONDUITS AND/OR PIPES WITHIN GROUTED CELLS SHALL NOT EXCEED 2% OF THE NET CROSS SECTION OF AN BLOCK AND SHALL NOT BE IN JAMBS OR PANEL EDGES.

10. AT THE CONTRACTOR'S DISCRETION, SELF-CONSOLIDATING GROUT MAY BE SUBSTITUTED FOR TYPICAL GROUT AND VIBRATING. IF SUBSTITUTION IS MADE, LIFT HEIGHT MAY BE INCREASED PER TMS GUIDELINES.

MASONRY - POST INSTALLED ANCHORS

1. PERIODIC SPECIAL INSPECTIONS ARE REQUIRED PER IBC CHAPTER 17 AND ESR REPORT .

2. ANCHORS REQUIRED TO BE INSTALLED IN FULLY GROUTED CELLS SHALL BE INSTALLED WITH GROUT THAT IS A MINIMUM OF 2000 PSI UNLESS NOTED OTHERWISE.

3. ADHESIVE ANCHORS IN HOLLOW OR UNREINFORCED MASONRY (URM) SHALL CONFORM TO THE FOLLOWING:
   A. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHOR SYSTEM.
   B. ANCHORS SHALL BE ASTM F1554 GRADE (36,55,105).
   C. INSTALL IN CLEAN HOLES AND PER ESR-4143 IN HOLLOW OR GROUTED CMU, ESR 4144 IN UN-REINFORCED MASONRY HILTI HIT-HY 200 IN FULLY GROUTED CMU ESR 3963.
   D. EXTERIOR ANCHORS SHALL BE GALVANIZED.

4. ADHESIVE ANCHORS IN GROUTED CMU CELLS SHALL CONFORM TO THE FOLLOWING:
   A. HILTI HIT-HY 200 INSTALL PER ESR-3963.
   B. EXTERIOR ANCHORS SHALL BE GALVANIZED.

5. EXPANSION ANCHORS SHALL CONFORM TO THE FOLLOWING:
   A. HILTI KWIK BOLT-TZ2 INSTALL PER ESR-4561
      DEWALT POWER-STUD+SD1 INSTALL PER ESR-2966
      SIMPSON STRONG TIE STRONG BOLT 2 INSTALL PER IAPMO UES REPORT 240.
   B. EXTERIOR ANCHORS SHALL BE STAINLESS STEEL OR GALVANIZED.

6. SCREW ANCHORS into grouted masonry SHALL CONFORM TO THE FOLLOWING:
   A. SIMPSON STRONG TIE TITEN HD2 ANCHORS. INSTALL PER PER ESR-1056
      OR DEWALT SCREW-BOLT+ INSTALL PER ESR-4042
      OR HILTI
   B. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

7. SUBSTITUTION OF MANUFACTURED PRODUCT IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD IN WRITING.

STEEL

1. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
   A. ALL W & WT SHAPES SHALL CONFORM TO A992 (50 KSI)
   B. ALL PLATES, CHANNELS, ANGLES SHALL CONFORM TO A572, GRADE 50 (50 KSI)
   C. BARS, AND FLATS SHALL CONFORM TO A36 (36 KSI)
   D. ALL HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO A500, GRADE C (46 KSI) (50 KSI FOR SHAPED & 46 KSI FOR ROUND)
   E. ALL STEEL PIPE SHALL CONFORM TO A53, GRADE B (35 KSI)

2. ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF THE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND AISC 341-16 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS FOR LATERAL FORCE RESISTING SYSTEM.

3. ALL BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS (A325) UNLESS OTHERWISE NOTED ON THE DRAWING. BOLTED CONNECTIONS SHALL BE "SNUG TIGHT".

4. BOLT HOLES SHALL BE BOLT DIAMETER + 1/16". BOLT END AND EDGE DISTANCES AND BOLT LENGTHS SHALL BE PER AISC, UNLESS NOTED OTHERWISE. BASE PLATE BOLT HOLES MAY BE OVERSIZED BY 1/8".

5. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO AWS D1.1:2020. WELDING OF MAIN FORCE RESTISTING SYSTEM SHALL BE IN ACCORDANCE WITH AWS D1.8:2016. WELDERS PERFORMING THE WORK SHALL HAVE BEEN RE-TESTED WITHIN 6 MONTHS PRIOR TO THE START OF STEEL FABRICATION. WELDING FOR STRUCTURAL STEEL SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.

6. FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDING.

7. ENDS OF HOLLOW STRUCTURAL SECTION COLUMNS AND EXPOSED MEMBERS SHALL HAVE 3/16" CAP PLATES AND SEAL WELDS ALL ROUND.

8. HOLES SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR PRE-APPROVED BY THE ENGINEER OF RECORD IN WRITING.

9. FOR MASONRY LINTEL ANGLES SEE MASONRY.

METAL ROOF AND FLOOR DECK

1. METAL ROOF DECK AND FLOOR DECK BELOW CONCRETE SLABS SHALL BE ATTACHED TO ITSELF AND SUPPORTS PER THE METAL DECK CONNECTION SCHEDULE.

2. FOLLOW DECK MANUFACTURERS GUIDELINES FOR PLACEMENT OF CONCRETE ON TOP OF METAL FLOOR DECK. PLACE FRESH CONCRETE OVER BEAMS AND DISTRIBUTE EVENLY OVER DECK.

3. HOLES LARGER THAN 6" THAT ARE TO BE CUT IN CONCRETE FLOOR DECK SHALL BE REINFORCED PER TYPICAL DETAILS. HOLES LESS THAN 6" DIA MAY BE CORE DRILLED THROUGH CONCRETE FLOOR DECK AFTER OBTAINING DESIGN STRENGTH. SPACING OF HOLES DRILLED THROUGH DECK SHALL BE A MINIMUM OF THREE (3) TIME THE DIAMETER.

4. METAL FLOOR DECK TYPE AND DEPTH SHALL BE PER THE PLANS. ACCEPTABLE MANUFACTURERS SHALL BE VERCO, ASC, VULCRAFT, OR ENGINEER APPROVED. Fy=50 KSI

5. DECK SHEETS SHALL BE CONTINUOUS OVER A MINIMUM OF TWO SPANS.

6. AT COMPOSITE CONCRETE DECK OPENINGS, DESIGN AND PROVIDE POUR STOPS AND CLOSURES UNLESS NOTED OTHERWISE.

7. METAL ROOF DECK SHALL BE PER METAL DECK SCHEDULE.

STEEL JOISTS

1. STEEL JOISTS SHALL BE DESIGNED BY A STEEL JOIST INSTITUTE MEMBER COMPANY FOR LOADS SPECIFIED ON LOADING PLANS. MANUFACTURER SHALL DESIGN AND PROVIDE BRIDGING. SUBMIT PLANS, SHOP DRAWINGS, AND STRUCTURAL CALCULATIONS STAMPED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WA OF ALL JOISTS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

2. LOADS SPECIFIED DO NOT INCLUDE SELF-WEIGHT OF JOIST, UNO.

3. JOISTS SHALL BE DESIGNED FOR LOADS SHOWN ON **S602**.

4. JOISTS, CROSS BRACING, AND BRIDGING SHALL BE DESIGNED FOR WIND UPLIFT SHOWN ON SCHEDULE. PROVIDE ADDITIONAL JOIST BRACING AT HVAC SUPPORTS PER **G4/S5.22**.

5. JOIST DEPTH AND SPACING SHALL BE AS INDICATED ON THE PLANS AND SCHEDULE.

6. JOIST BRIDGING SHALL BE CONNECTED TO ADJACENT STRUCTURAL STEEL PER **E4/S5.21**.

7. ENDS OF JOISTS SHALL BE WELDED FULL LENGTH TO SUPPORTS, UNLESS NOTED OTHERWISE.

8. DESIGN DEPTH OF JOIST BEARING IS AS SHOWN ON THE DRAWINGS. CONTRACTOR TO COORDINATE THE ACTUAL JOIST BEARING DEPTH BETWEEN THE JOIST SUPPLIER AND THE STRUCTURAL STEEL SUPPLIER.

9. JOIST AND JOIST GIRDERS SHALL BE DESIGNED FOR THE SPECIFIED LOADS REQUIRED BY THEIR DESIGNATION, AND FOR ANY ADDITIONAL POINT OR UNIFORM AND AXIAL LOADS WHICH ARE INDICATED.

10. THE BAR JOIST SUPPLIER SHALL COORDINATE THE EXACT SIZE AND LOCATION OF ALL LOADS FROM MECHANICAL AND FIRE SPRINKLER PIPES AND DUCTWORK AND APPLY THEM TO THE BAR JOISTS.

11. MECHANICAL OR PIPING EQUIPMENT SHALL BE ATTACHED TO THE BOTTOM CHORD OF BAR JOISTS PER THE PROVIDED DETAIL.

COLD-FORMED METAL

1. ALL METAL STUDS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM C955, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR STUDS AND TRACKS, 43 MIL AND SMALLER AND 50 KSI FOR STUDS AND TRACKS 54 MIL AND LARGER, UNLESS OTHERWISE NOTED.

2. METAL STUDS SHALL BE ATTACHED TO TOP AND BOTTOM TRACKS WITH (2) #10 SCREWS. METAL STUD MEMBERS IN CONTINUOUS CONTACT SHALL BE CONNECTED WITH #10 SCREWS AT 12" C/C MINIMUM.

3. BOTTOM TRACK AT NON-SHEARWALLS SHALL BE CONNECTED TO CONCRETE FOUNDATION OR FLOORS WITH POWER ACTUATED FASTENERS AT 12" C/C AND WITHIN 4" OF ENDS. POWER ACTUATED FASTENERS SHALL BE SIMPSON PDPA/PDPAT OR HILTI X-U WITH 1" EMBEDMENT, UNLESS NOTED OTHERWISE.

4. TOP TRACK SHALL BE CONNECTED TO HOT-ROLLED STEEL FRAMING ABOVE WITH SIMPSON PDPA/PDPAT-62K OR HILTI X-EDNI POWER ACTUATED FASTENERS AT 8" C/C OR (2) 2" LONG FILLET WELDS AT 16" C/C. PROVIDE WELDS OR FASTENER WITHIN 4" OF ENDS. ALL WELDS SHALL BE TOUCHED UP WITH ZINC-RICH PAINT.

5. TOP TRACK SHALL BE CONNECTED TO THE UNDERSIDE OF CONCRETE FILLED DECKING WITH POWER ACTUATED FASTENERS AT 12" C/C AND WITHIN 4" OF ENDS. POWER ACTUATED FASTENERS SHALL BE SIMPSON PDPA/PDPAT OR HILTI X-U WITH 1" EMBEDMENT, UNLESS NOTED OTHERWISE.

6. METAL STUD WALLS ATTACHED TO THE BOTTOM OF STRUCTURAL METAL MEMBERS SHALL USE A SLOTTED TOP TRACK THAT ALLOWS FOR DEFLECTION OF THE STRUCTURAL METAL MEMBER ABOVE. TOP TRACK OF STUD WALLS ATTACHED BELOW STRUCTURAL STEEL MEMBERS SHALL ALLOW FOR UP TO 1" OF VERTICAL DEFLECTION. TOP TRACK SHALL NOT BE FASTENED OR STUDS SHALL NOT BE INSTALLED UNTIL ROOF OR FLOOR ABOVE HAS BEEN INSTALLED.

7. UNLESS NOTED OTHERWISE, ALL COLD FORMED METAL HEADERS, KING STUDS, AND THEIR CONNECTIONS, SHALL BE PER THE COLD-FORMED METAL HEADER SCHEDULE ON **S6.01.**

8. UNLESS NOTED OTHERWISE, COLD-FORMED FRAMING SHALL CONFORM TO THE FOLLOWING:

8.1.	TYPICAL STUD	600S162-43 @ 16" C/C	
8.2.	STUD AT OVERHANG WALL	600S200-43 @ 16" C/C	SEE **A4/S5.12**
8.3.	TOP TRACK	600SLT250-54	
8.4.	BOTTOM TRACK	600T125-43	
8.5.	SILL	600T125-54	

9. LENGTH OF UNTHREADED "DRILLING" PORTION OF SELF-DRILLING SCREWS USED WITH METAL STUD FRAMING SHALL BE GREATER THAN THE COMBINED THICKNESS OF CONNECTED MATERIALS. IN ADDITION, A MINIMUM OF THREE FULL SCREW THREADS SHALL BE EXPOSED ON SCREWS INSTALLED IN METAL STUD FRAMING MEMBERS.

STATEMENT OF STRUCTURAL OBSERVATION

1. IN ACCORDANCE WITH THE 2021 IBC SECTION 1704.6 STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER ON SEISMIC AND WIND RESISTING ELEMENTS OF THE STRUCTURE.

2. THIS STRUCTURAL OBSERVATION IS IN ADDITION TO THE REQUIRED SPECIAL INSPECTIONS PERFORMED BY THE SPECIAL INSPECTION AND TESTING AGENCY.

3. CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER 48 HOURS IN ADVANCE WHEN THE CONSTRUCTION OF THE STRUCTURE IS AT A POINT TO BE OBSERVED.

4. STRUCTURAL OBSERVATIONS SHALL INCLUDE BUT ARE NOT LIMITED TO:
   A. PERIODIC OBSERVATION OF REINFORCEMENT IN FOUNDATIONS OF BRACED FRAMES AND SHALL INCLUDE THE FIRST BRACED FRAME PRIOR TO POURING OF FOUNDATION AND ADDITIONAL FOUNDATIONS AT THE ENGINEER'S DISCRETION.
   B. STRUCTURAL STEEL BRACED FRAMES IN PLACE PRIOR TO COVERING.
   C. ITEMS IDENTIFIED AS PARTS OF THE MFRS PRIOR TO COVERING INCLUDING SPOT CHECK OF DECK FASTENERS, BOLTED, AND WELDED CONNECTIONS.
   D. MASONRY WALLS PRIOR TO THE FIRST GROUT POUR AT EACH CMU BUILDING.

LEGEND

ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BF#	BRACE FRAME NUMBER
BOB	BOTTOM OF BEAM
BOBP	BOTTOM OF BASE PLATE
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FOOTING
BOM	BOTTOM OF MASONRY
BP#	BASE PLATE NUMBER
C	CHANNEL
C/C	CENTER TO CENTER
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CTR	CENTER
CP	CONTROL POINT
DIA	DIAMETER
DL	DEAD LOAD
DSL	DRIFT SNOW LOAD
DWL	DOWEL
(E)	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL OR ELEV	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
EOD	EDGE OF DECK
EQ SP	EQUALLY SPACED
ESR	ENGINEERS SERVICE REPORT
EW	EACH WAY
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR
FS	FLOOR SINK
FT	FOOT; FEET
FT#	FOOTING TYPE - NUMBER
FTG	FOOTING
HSS	HOLLOW STRUCTURAL SECTION
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
JST	JOIST
K	KIP; KIPS
KSI	KIPS PER SQUARE INCH
L	ANGLE
LB	POUND; POUNDS
LF	LINEAR FOOT
LL	DOUBLE ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFR	MANUFACTURER
MFRS	MAIN FORCE RESISTING SYSTEM
MIN	MINIMUM
ML#	MASONRY LINTEL NUMBER
NTS	NOT TO SCALE
OPP	OPPOSITE HAND
OWJ	OPEN WEB JOIST
PAF	POWER ACTUATED FASTENER
PAR	PARAPET ELEVATION
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PP	PANEL POINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
R	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT; REINFORCING
SCJ	SAWN CONTROL JOINT
SIM	SIMILAR
SL	SNOW LOAD
SOG	SLAB ON GRADE
STD	STANDARD
SPEC	SPECIFICATION
SQ	SQUARE
STL	STEEL
STRUC	STRUCTURAL
T&B	TOP AND BOTTOM
TMS	THE MASONRY SOCIETY
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	WIDE; WIDTH
WF	WIDE FLANGE
WP	WORK POINT
WUL	WIND UPLIFT LOAD
WWF	WELDED WIRE FABRIC
	NEW CMU WALL
	DECK SPAN DIRECTION
	STEEL COLUMN
BF#	BRACED FRAME

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ORION HIGH SCHOOL

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PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
GENERAL NOTES AND LEGEND

SHEET
S0.01

STATEMENT OF SPECIAL INSPECTION

1. IN ACCORDANCE WITH THE 2021 IBC SECTION 1704.2, THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK AND AS SPECIFIED BELOW. CONTRACTOR SHALL COORDINATE WITH INSPECTION AND TESTING AGENCY(S) FOR REQUIRED CONSTRUCTION INSPECTIONS AND MATERIAL TESTING. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION WEEKLY FOR REVIEW.
2. STEEL: SPECIAL INSPECTION SHALL BE PER SECTION 1705.2 OF THE IBC AND CHAPTER N OF AISC 360. SPECIAL INSPECTION OF MFRS SHALL BE IN ACCORDANCE WITH AISC 341 CHAPTER J INCLUDING BRACED FRAMES, CHORDS, AND COLLECTORS.
3. COLD FORMED STEEL DECK: SPECIAL INSPECTION PER IBC 1705.2.2 AND SD1 QA/QC.
4. OPEN WEB STEEL JOISTS AND GIRDERS: SPECIAL INSPECTION PER TABLE 1705.2.3 OF THE IBC.
5. CONCRETE CONSTRUCTION: SPECIAL INSPECTION PER SECTION 1705.3 AND TABLE 1705.3 OF THE IBC. **EXCEPTION**: NO SPECIAL INSPECTION IS REQUIRED FOOTINGS AND STEM WALLS EXCEPT THE BRACED FRAME FOOTINGS AND THE EXTERIOR SLOPED COLUMNS.
6. MASONRY: SPECIAL INSPECTION PER SECTION 1705.4 OF THE IBC, CHAPTER 3 OF TMS 402 (QUALITY ASSURANCE LEVEL B) AND TMS 602.
8. POST INSTALLED ANCHORS: SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE ANCHORS ASSOCIATED ICC-ES ESR.
9. SEISMIC RESISTANCE: SPECIAL INSPECTION FOR SEISMIC RESISTANCE SHALL BE PER SECTION 1705.12 OF THE IBC.
   A. STRUCTURAL STEEL PER AISC 341 CHAPTER J AND IBC 1705.12.1 FOR SEISMIC DESIGN CATEGORY B-F.
   B. ARCHITECTURAL COMPONENTS PER IBC 1705.12.5 FOR SEISMIC DESIGN CATEGORY D-F.
   C. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS PER IBC 1705.12.6 FOR SEISMIC DESIGN CATEGORY C-F.

DUTIES OF THE SPECIAL INSPECTOR AND/OR TEST PERSONNEL INCLUDE:

1. OBSERVE THE WORK FOR COMPLIANCE WITH THE JURISDICTION APPROVED PLANS, SPECIFICATIONS AND APPLICABLE PROVISIONS OF THE IBC. REVIEWED SHOP DRAWINGS AND/OR PLACEMENT DRAWINGS ARE ONLY AS AN AID TO INSPECTIONS.
2. NOTIFY THE CONTRACTOR AND CONSTRUCTION SUPERINTENDENT IMMEDIATELY TO STOP WORK IF REQUIRED TO MAINTAIN LIFE SAFETY OF THE SITE OR TO PREVENT COVERING OF REINFORCING NOT MEETING THE REQUIREMENTS OF THE DESIGN DOCUMENTS.
3. REPORT NON-CONFORMING ITEMS IMMEDIATELY TO THE ATTENTION OF THE CONTRACTOR AND NOTE ALL ITEMS IN THE DAILY REPORT. IF NON-CONFORMING ITEMS ARE NOT RESOLVED IN A TIMELY MANNER AND IS ABOUT TO BE COVERED. THE SPECIAL INSPECTOR SHALL IMMEDIATELY NOTIFY THE JURISDICTION, THE STRUCTURAL ENGINEER AND THE ARCHITECT.
4. COMPLETE DAILY INSPECTION REPORTS AND SUBMIT WEEKLY TO THE BUILDING DEPARTMENT, THE STRUCTURAL ENGINEER, AND THE ARCHITECT. COPY OF DAILY INSPECTION REPORT IS TO REMAIN ON SITE WITH THE BUILDING PERMIT FOR REVIEW BY THE BUILDING INSPECTOR. DAILY REPORTS ARE TO INCLUDE
   A. THE NAME OF THE SPECIAL INSPECTOR, DATE, TIME, TEMPERATURE, AND WEATHER CONDITIONS.
   B. DESCRIPTION AND LOCATION OF THE INSPECTION OR TEST PERFORMED
   C. INDICATE ALL NON-CONFORMING ITEMS.
   D. DESCRIBE HOW THE NON-CONFORMANCE WAS RESOLVED.
   E. IDENTIFY ANY CHANGES OR CORRECTIONS TO NON-CONFORMING ISSUES AUTHORIZED BY THE STRUCTURAL ENGINEER, ARCHITECT OR BUILDING INSPECTOR.
   F. PROVIDE FINAL REPORT STATING THAT ALL REQUIRED INSPECTIONS OR TESTING WERE PERFORMED AND ALL NON-CONFORMING ISSUES HAVE BEEN CORRECTED OR RESOLVED AND ALL WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. ANY NON-CONFORMING ITEMS THAT WERE NOT RESOLVED SHALL BE SPECIFICALLY LISTED IN THE REPORT THESE MAY INCLUDE BUT ARE NOT LIMITED TO: MISSED INSPECTIONS, PERIODIC INSPECTIONS WHEN CONTINUOUS INSPECTIONS WERE REQUIRED., ETC)

SPECIAL INSPECTION LEGEND:

O OBSERVE ON RANDOM DAILY BASIS

P PERFORM INSPECTION FOR ALL MFRS ELEMENTS

D DOCUMENT ITEM INSPECTED BY MARK NUMBER IN THE SHOP AND BY GRID LINES AND ELEVATION IN THE FIELD. DOCUMENT SHALL INDICATE THAT THE WORK IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, AND WHETHER NON-COMPLIANCE HAS BEEN SATISFACTORILY REPAIRED, SHALL BE NOTED IN THE INSPECTION REPORT.

S SUBMIT TO EOR OR EOR'S DESIGNEE, PRIOR TO FABRICATION OF MFRS ELEMENTS.

SOILS

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. 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

CONCRETE CONSTRUCTION

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
1. REINFORCEMENT, AND VERIFY PLACEMENT.	P/D	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3
2. INSPECT ANCHORS CAST IN CONCRETE.	P/D	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.	X	-	ACI 318: 17.8.2.4
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	X	ACI 318: 17.8.2
4. VERIFY USE OF REQUIRED DESIGN MIX.	O	X	ACI 318: CH. 19, 26.4.3, 26.4.4
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	P/D	-	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	P	-	ACI 318: 26.4.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	O	ACI 318: 26.4.7-26.4.9
9. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF FORMS.	-	X	ACI 318: 26.10.2
10. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.10.1(B)

MASONRY

TMS 402 TABLE 3.1.2 LEVEL B QUALITY ASSURANCE FOR MASONRY STRUCTURES

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. (NOTE TO ENGINEER: F'AAC IS FOR A SPECIALTY PRODUCT NOT TYPICALLY USED)

MINIMUM SPECIAL INSPECTION

INSPECTION TASK	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. PROPORTIONS OF SITE-PREPARED MORTAR.	-	X		ART. 2.1, 2.6 A
B. CONSTRUCTION OF MORTAR JOINTS.		X		ART. 3.3 B
C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		X		ART. 2.4 B, 2.4 H
D. LOCATION OF REINFORCEMENT AND CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		X		ART 3.4, 3.6 A
E. PRESTRESSING TECHNIQUE.		X		ART 3.6 B
F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	X(A)	X(B)		ART. 2.1 C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE.				
A. GROUT SPACE				ART 3.2 D, 3.2 F
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.		X	SEC. 6.1	ART. 2.4, 3.4
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.		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 AND PRESTRESSING GROUT FOR BONDED TENDONS.		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 (TEMPERATURES BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURES ABOVE 90 DEGREES F).		X		ART. 1.8 C, 1.8 D
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	X			ART. 3.6 B
F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	X			ART 3.5, 3.6 C
G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	X(B)	X(C)		ART 3.3 B.9, 3.3 F.1.B
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 5000 SQUARE FEET OF AAC MASONRY.
(C) REQUIRED AFTER THE FIRST 5000 SQUARE FEET OF AAC MASONRY.

STEEL FABRICATORS

FABRICATIONS PERFORMED IN AN APPROVED FABRICATORS SHOP DO NOT REQUIRE SPECIAL INSPECTION. AISC CERTIFIED FABRICATORS SHALL BE CONSIDERED "APPROVED". OTHER SHOPS MAY BE APPROVED AT THE DISCRETION OF THE LOCAL BUILDING OFFICIAL BY PROVIDING ANY INFORMATION REQUESTED BY THE BUILDING OFFICIAL REGARDING THEIR HOUSE QUALITY ASSURANCE PROGRAM AND INSPECTION AND MOST RECENT AUDIT OF THE QUALITY ASSURANCE PROGRAM AND INSPECTION; INCLUDING BUT NOT LIMITED TO WELDING CERTIFICATES AND AWS OR WABO WELD INSPECTOR CERTIFICATION OF IN HOUSE INSPECTORS. APPROVED FABRICATORS MUST SUBMIT CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL PRIOR TO THE BUILDING OFFICIAL ISSUING A CERTIFICATE OF OCCUPANCY.

IF THE FABRICATOR IS NOT APPROVED PRIOR TO THE START OF CONSTRUCTION, THE FABRICATOR MUST PROVIDE ACCESS TO THE SPECIAL INSPECTOR TO PERFORM ALL SPECIAL INSPECTIONS INDICATED FOR STRUCTURAL STEEL DURING THE FABRICATION PROCESS. SPECIAL INSPECTOR AND FABRICATOR TO DETERMINE SCHEDULE FOR PLANT SPECIAL INSPECTIONS PRIOR TO THE START OF CONSTRUCTION. THE SPECIAL INSPECTOR MUST APPROVE THE WELDING CERTIFICATES FOR FABRICATOR PRIOR TO FIRST WELD ON THE PROJECT.

THE SPECIAL INSPECTOR FOR MFRS WELDS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.8 CLAUSE 7.2. VISUAL WELDING AND BOLTING INSPECTIONS SHALL BE PERFORMED BY BOTH QUALITY CONTROL AND QUALITY ASSURANCE PERSONNEL FOR MFRS.

STRUCTURAL STEEL WELDING

INSPECTION OF WELDED STEEL CONSTRUCTION

AISC 360 TABLE N5.4-1: INSPECTION TASKS PRIOR TO WELDING AISC 341 J.2 FOR MFRS	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	S	-
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE, INCLUDE ALL ELECTRODES, FLUXES, AND SHIELDING GASES	S	-
MATERIAL IDENTIFICATION (TYPE/GRADE)	-	X
WELDER IDENTIFICATION SYSTEM INCLUDING PRODUCT DATA SHEETS OR CATALOG DATA FILLER MATERIALS USED	S	X
FOR DEMAND CRITICAL WELDS, APPLICABLE MANUFACTURER'S CERTIFICATIONS THAT THE FILLER METAL MEETS THE SUPPLEMENTAL NOTCH TOUGHNESS REQUIREMENTS. IF THIS CERTIFICATION BY THE MANUFACTURER IS NOT AVAILABLE, THE FABRICATOR SHALL HAVE THE TESTING PERFORMED AND PROVIDE TEST REPORTS	S	-
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS - CLEANLINESS - TACKING - BACKING TYPE AND FIT	P/O	X
CONFIGURATION AND FINISH OF ACCESS HOLES	O	X
FIT-UP OF FILLET WELDS - DIMENSIONS - CLEANLINESS - TACKING	P/O	X
CHECK WELDING EQUIPMENT	O	X
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	O	X

AISC 360 TABLE N5.4-2: INSPECTION TASKS DURING WELDING	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
USE OF QUALIFIED WELDERS	O	X
CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	O	X
NO WELDING OVER CRACKED TACK WELDS	O	X
ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	-	X
WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED - PROPER POSITION	O	X
WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	O	X

AISC 360 TABLE N5.4-3: INSPECTION TASKS AFTER WELDING	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
WELDS CLEANED	-	X
SIZE, LENGTH, AND LOCATION OF WELDS	P	-
WELDS MUST MEET VISUAL ACCEPTANCE CRITERIA	P/D	-
ARC STRIKES	X	-
K-AREA - WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD.	P/D	-
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P/D	-
REPAIR ACTIVITIES	P/D	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	-
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	-	X

STRUCTURAL STEEL BOLTING

INSPECTION OF BOLTED STEEL CONSTRUCTION

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

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

AISC 360 TABLE N5.6-3: INSPECTION TASKS AFTER BOLTING	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	P/D	-

OPEN-WEB STEEL JOISTS

TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS

INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
1. INSTALLATION OF OPEN-WEB STEEL JOISTS			
A. END CONNECTIONS – WELDING OR BOLTED.	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
B. BRIDGING – HORIZONTAL OR DIAGONAL.			
1. STANDARD BRIDGING.	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	-	X	

COLD-FORMED STEEL DECK

PARAGRAPH 1705.2.2 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
VERIFY DECK MATERIALS AND MILL CERTIFICATIONS.	O	-	SDI QA/QC SECTION 2.2 SDI APPENDIX 1
VERIFICATION AND INSTALLATION OF MECHANICAL FASTENERS.	P/D	X	SDI C, SDI NC, SDI RD, AND MANUFACTURER SPECS. SDI APPENDIX 1
VERIFY STEEL DECK INSTALLATION IS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, SHOP DRAWINGS, DESIGN DOCUMENTS, AND APPLICABLE REFERENCED STANDARDS.	O	X	SDI APPENDIX 1

NON-STRUCTURAL COMPONENTS

REQUIRED SPECIAL INSPECTIONS OF NON-STRUCTURAL COMPONENTS

TYPE/DESCRIPTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
ERECTION AND FASTENING OF EXTERIOR VENEER OVER 5 PSF.	-	X	1705.13.5
VERIFY THE ANCHORAGE OF ELECTRICAL EQUIPMENT REQUIRED FOR STANDBY POWER.	-	X	1705.13.6
VERIFY THE ANCHORAGE FOR PIPING OR DUCT SYSTEMS DESIGN TO CARRY HAZARDOUS MATERIALS.	-	X	1705.13.6

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CAD FILE: 917500S002.dwg

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PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SPECIAL INSPECTION TABLES

SHEET
S0.02

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.

2. SEE **S6.01** FOR SCHEDULES.

3. ALL BRACED FRAME FOUNDATIONS ARE PART OF THE MFRS. SEE GENERAL NOTES FOR SPECIAL REQUIREMENTS AT THESE LOCATIONS.

4. FOR FOUNDATION DRAINS AND FLOOR SINKS SEE MECHANICAL AND ARCHITECTURAL.

5. PROVIDE SAW CUTS IN FLOOR SLAB IN AN APPROXIMATE 12'-0" x 12'-0" GRID PATTERN.

6. PROVIDE FULL DEPTH JOINT IN CONCRETE FLOOR SLAB EVERY 5,000 SQUARE FEET MAX.

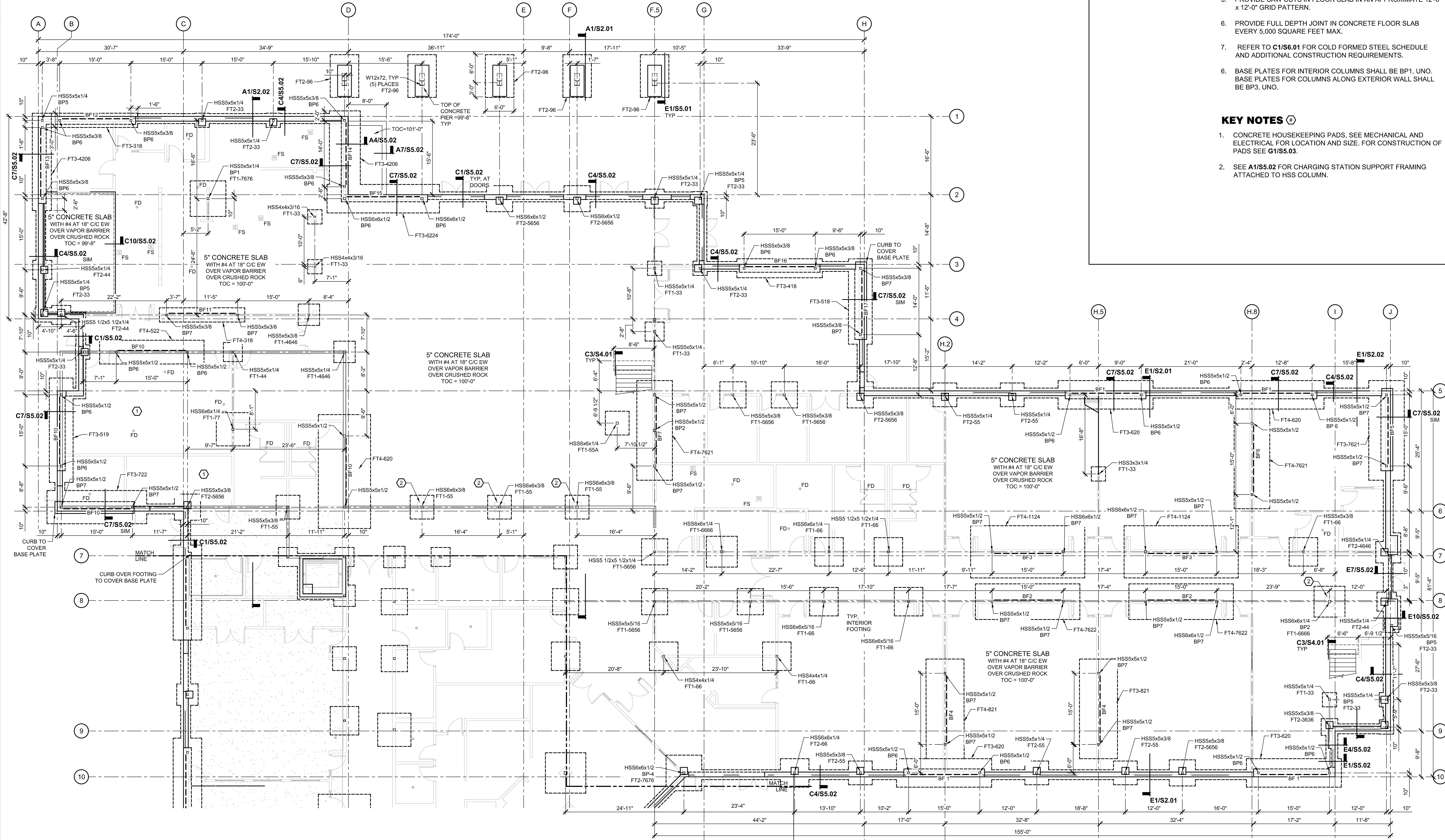
7. REFER TO **C1/S6.01** FOR COLD FORMED STEEL SCHEDULE AND ADDITIONAL CONSTRUCTION REQUIREMENTS.

6. BASE PLATES FOR INTERIOR COLUMNS SHALL BE BP1, UNO. BASE PLATES FOR COLUMNS ALONG EXTERIOR WALL SHALL BE BP3, UNO.

KEY NOTES (#)

1. CONCRETE HOUSEKEEPING PADS, SEE MECHANICAL AND ELECTRICAL FOR LOCATION AND SIZE. FOR CONSTRUCTION OF PADS SEE **G1/S5.03**.

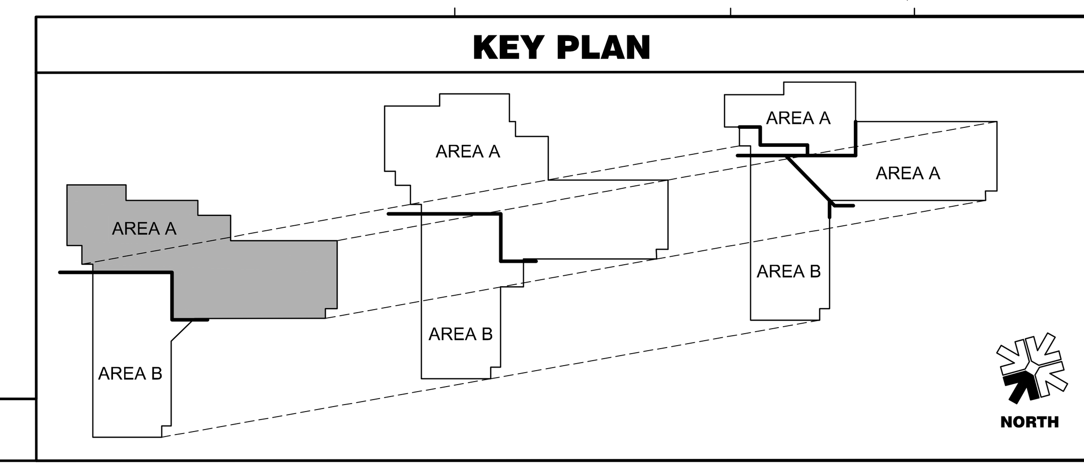
2. SEE **A1/S5.02** FOR CHARGING STATION SUPPORT FRAMING ATTACHED TO HSS COLUMN.



A1 **FOUNDATION PLAN**

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

KEY PLAN



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PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
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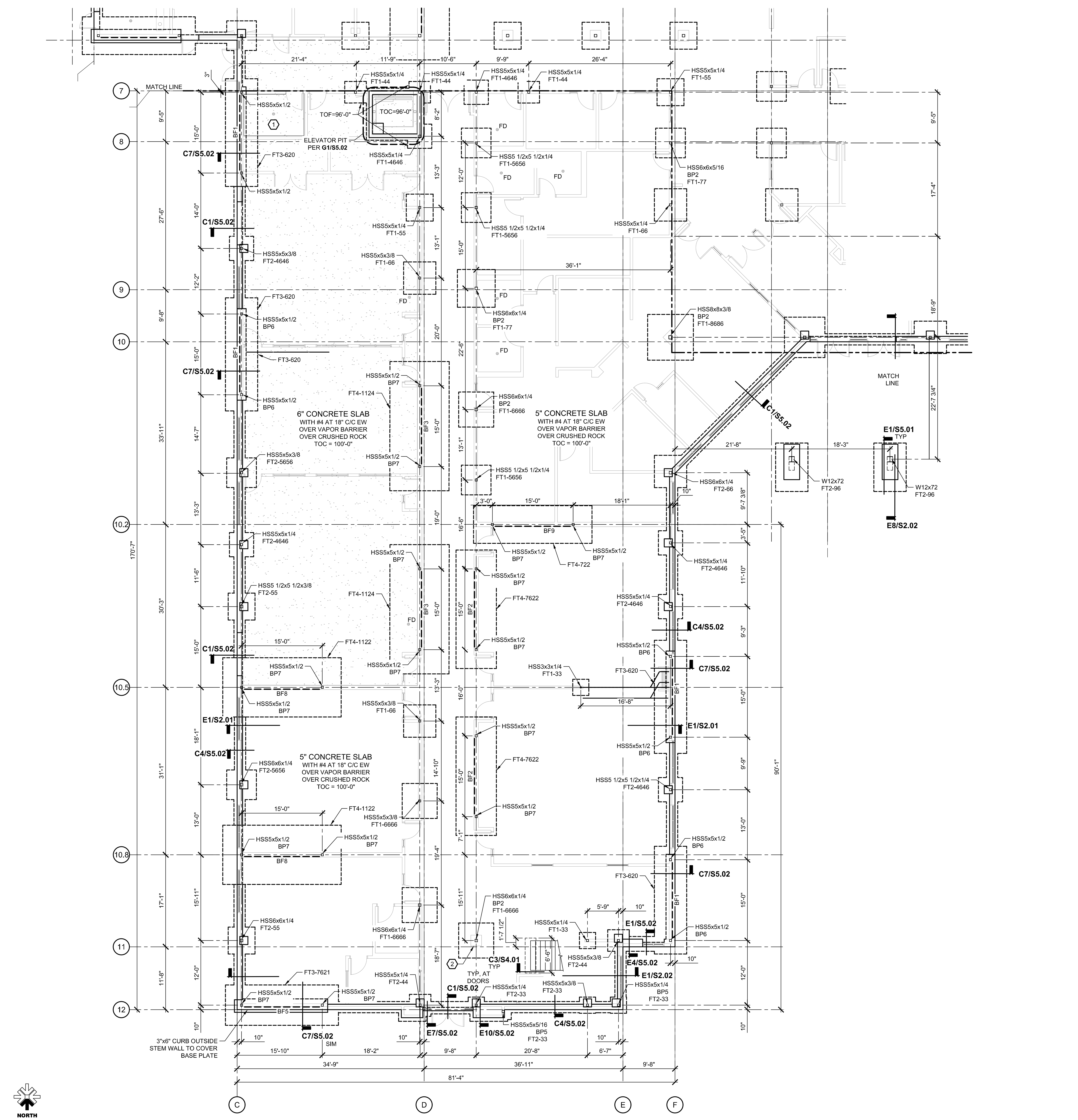
SHEET NAME
FOUNDATION PLAN
AREA A

SHEET
S1.01



A1 FOUNDATION PLAN

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

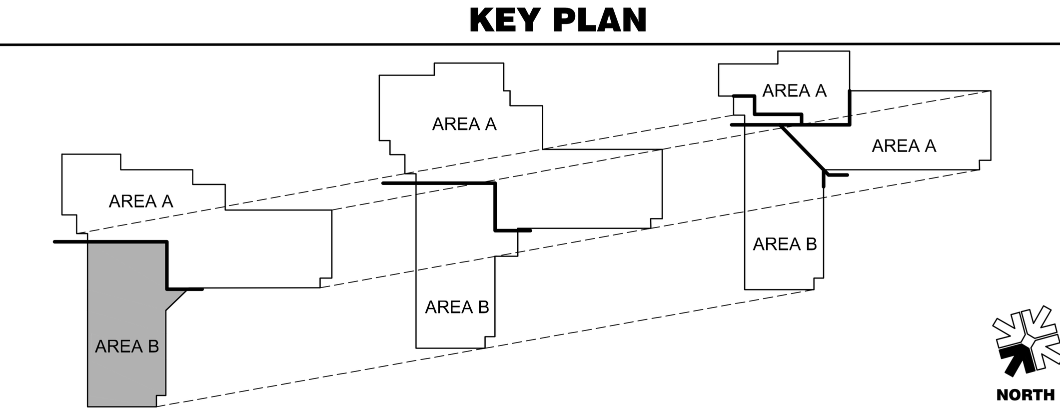
SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES.
4. FOR FOUNDATION DRAINS AND FLOOR SINKS SEE MECHANICAL AND ARCHITECTURAL.
5. PROVIDE SAW CUTS IN FLOOR SLAB IN AN APPROXIMATE 12'-0" x 12'-0" GRID PATTERN.
6. PROVIDE FULL DEPTH JOINT IN CONCRETE FLOOR SLAB EVERY 5,000 SQUARE FEET MAX.
7. BASE PLATES FOR INTERIOR COLUMNS SHALL BE BP1, UNO. BASE PLATES FOR COLUMNS ALONG EXTERIOR WALL SHALL BE BP3, UNO.

KEY NOTES

1. CONCRETE HOUSEKEEPING PADS, SEE MECHANICAL AND ELECTRICAL FOR LOCATION AND SIZE. FOR CONSTRUCTION OF PADS SEE **G1/S5.03**.
2. SEE **A1/S5.02** FOR CHARGING STATION SUPPORT FRAMING ATTACHED TO HSS COLUMN.

KEY PLAN



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SHEET NAME
FOUNDATION PLAN
AREA B

SHEET
S1.02

SHEET NOTES

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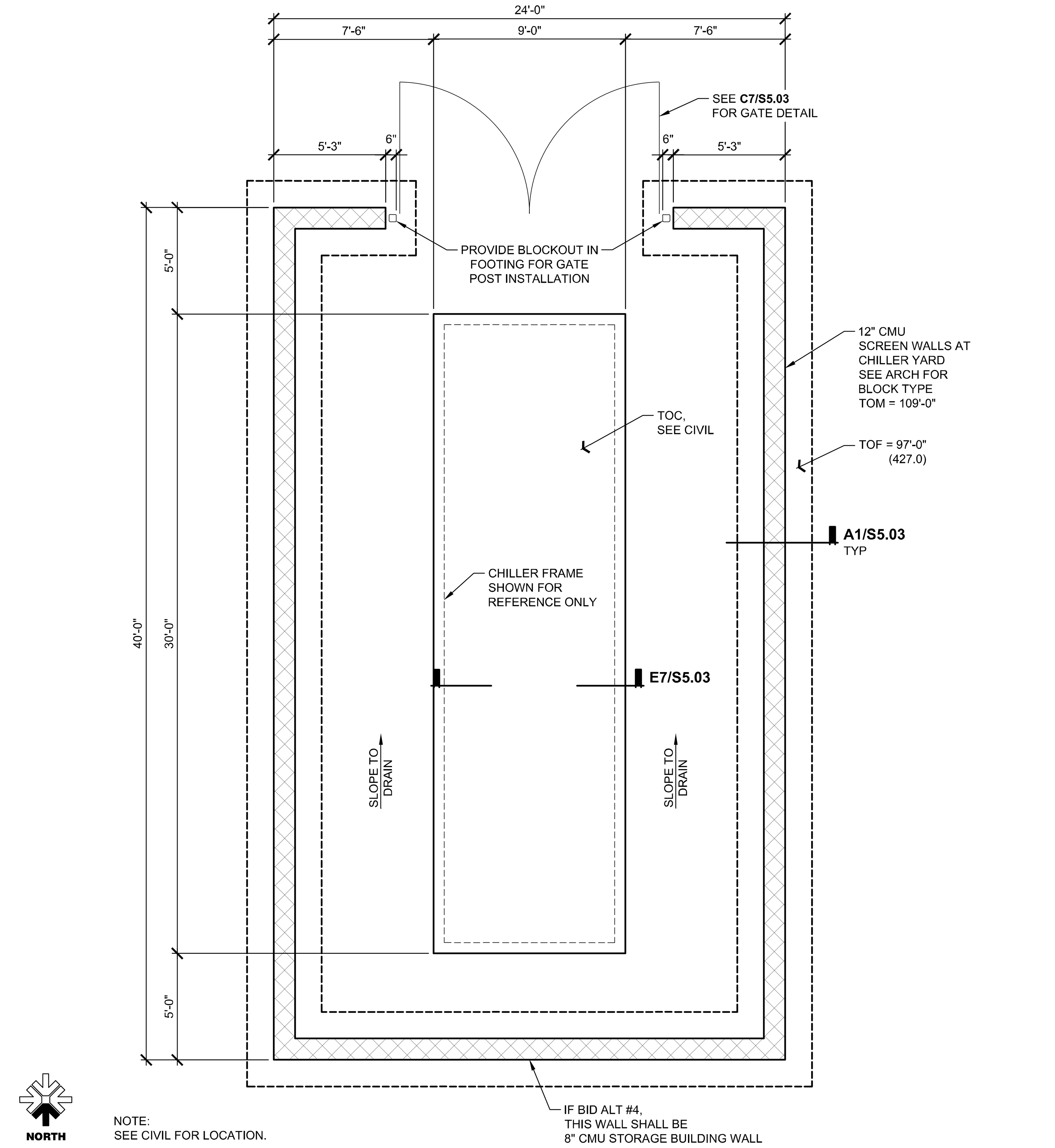
2. SEE **S6.01** FOR SCHEDULES AND MASONRY WALL REINFORCEMENT PLACING INFORMATION.

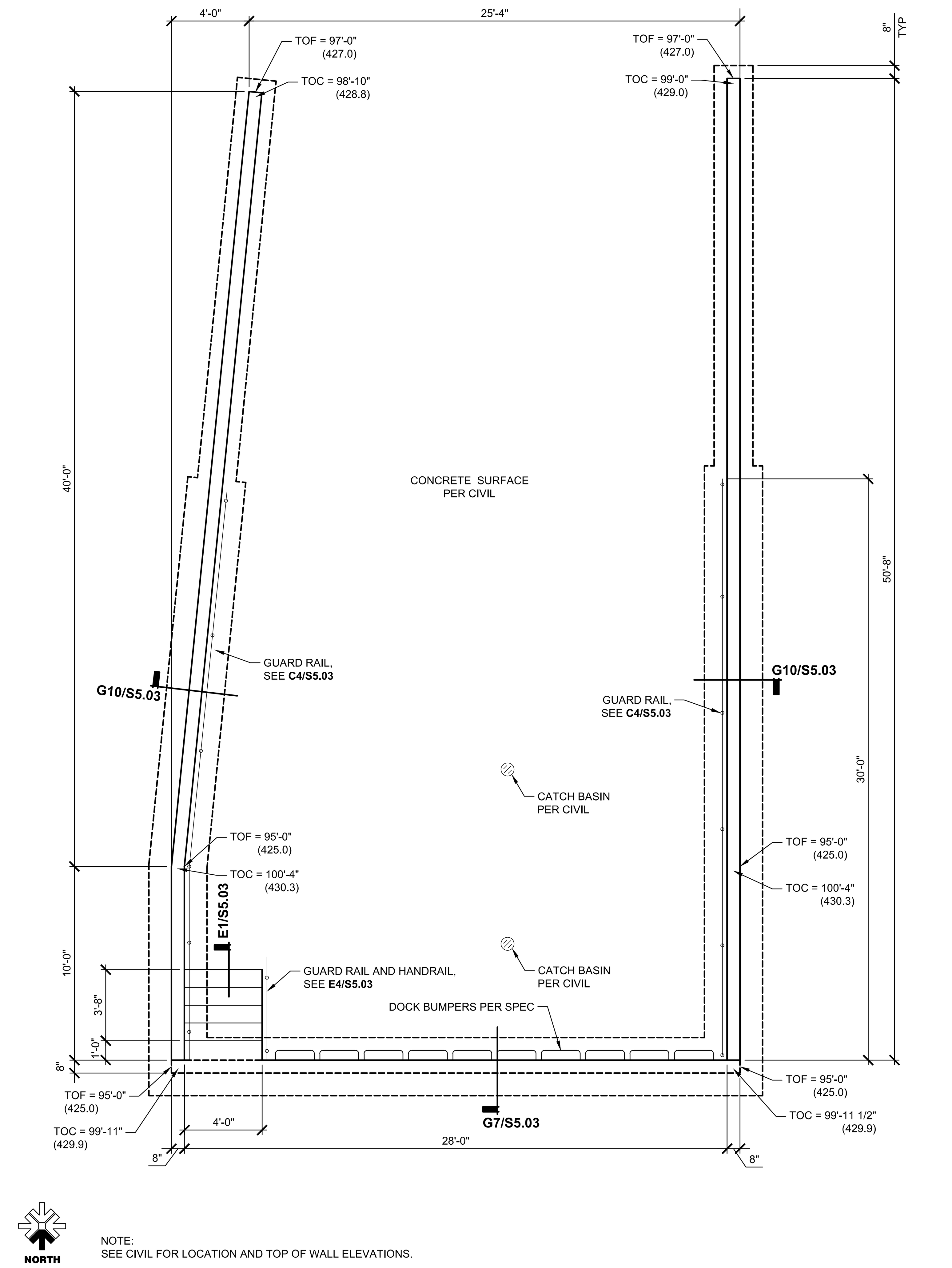


E1 CHILLER PAD PLAN

1/4" = 1'-0"

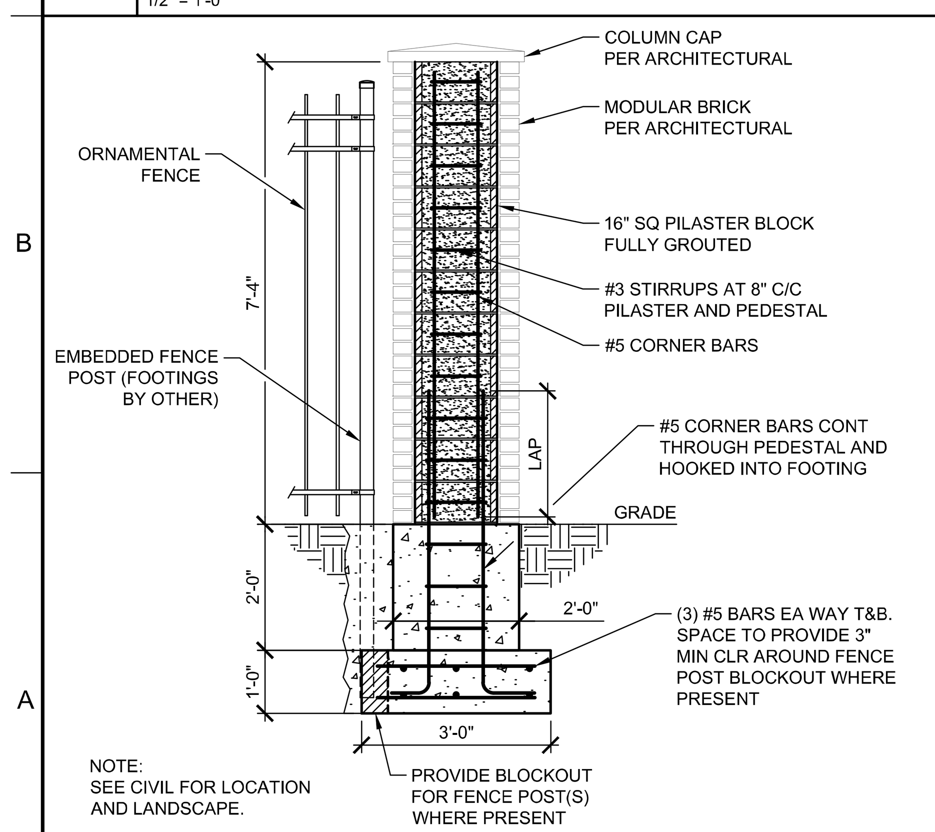
C1 NOT USED

1/2" = 1'-0"



C5 LOADING DOCK PLAN

1/4" = 1'-0"



A1 DECORATIVE FENCE COLUMN

1/2" = 1'-0"

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SHEET NAME
MICS. PLANS AND DETAILS

SHEET
S1.03

SHEET NOTES

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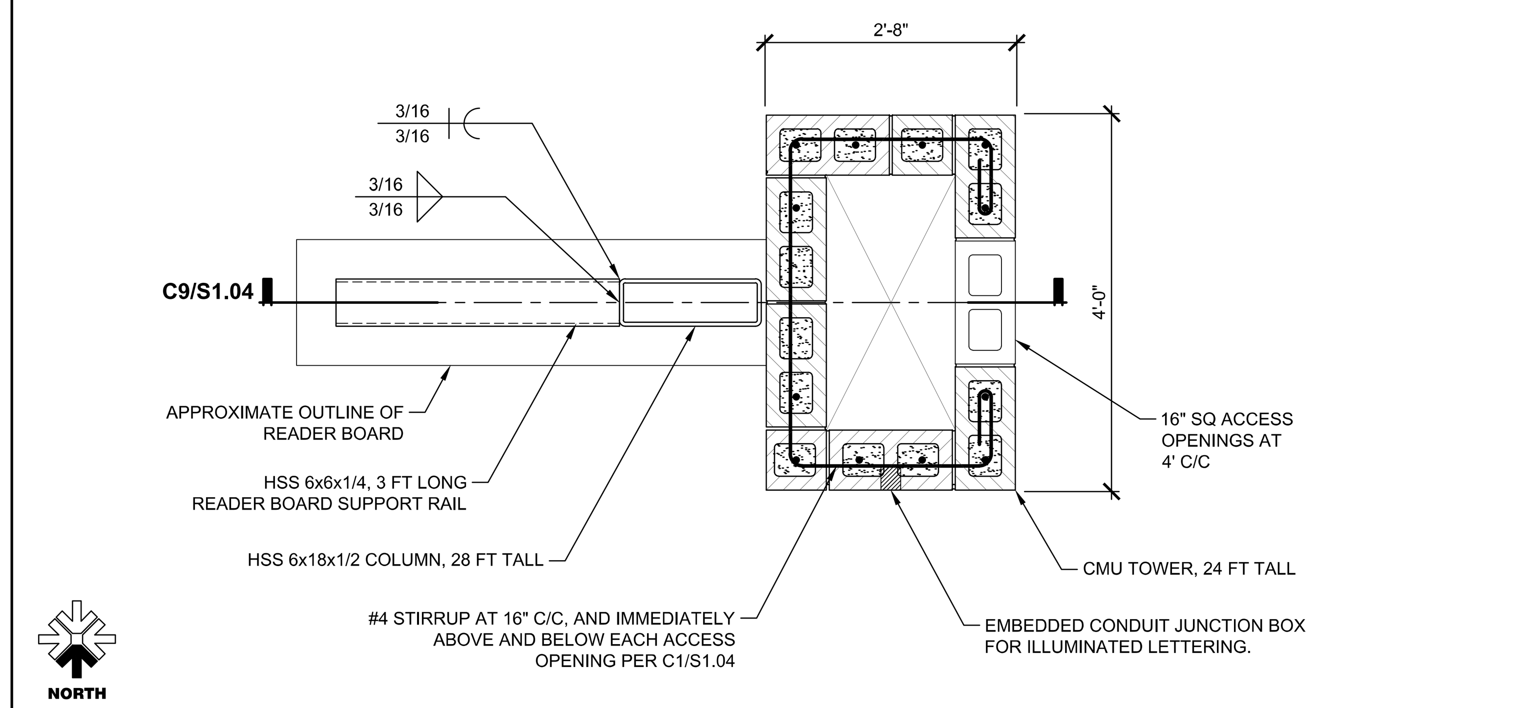
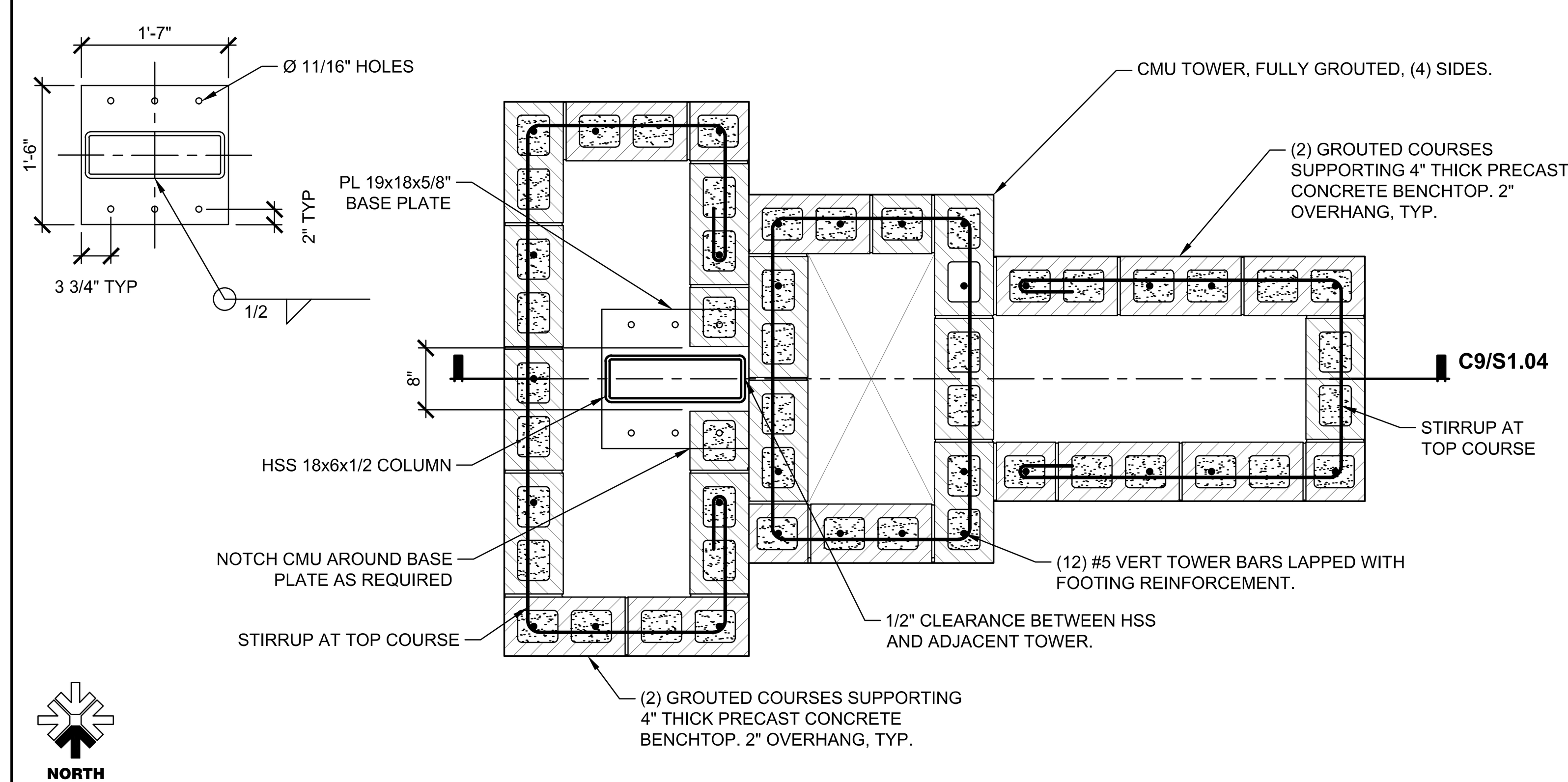
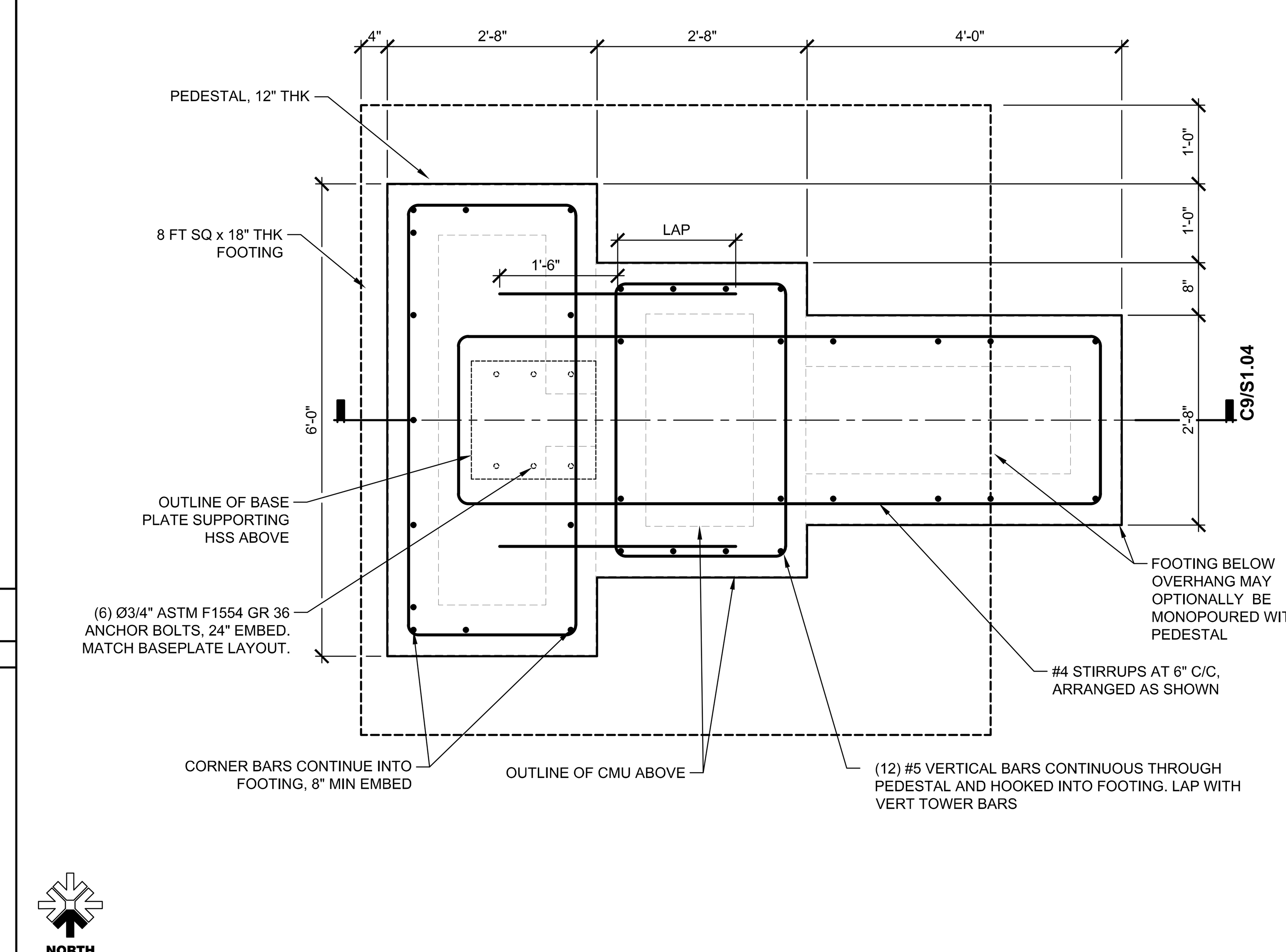


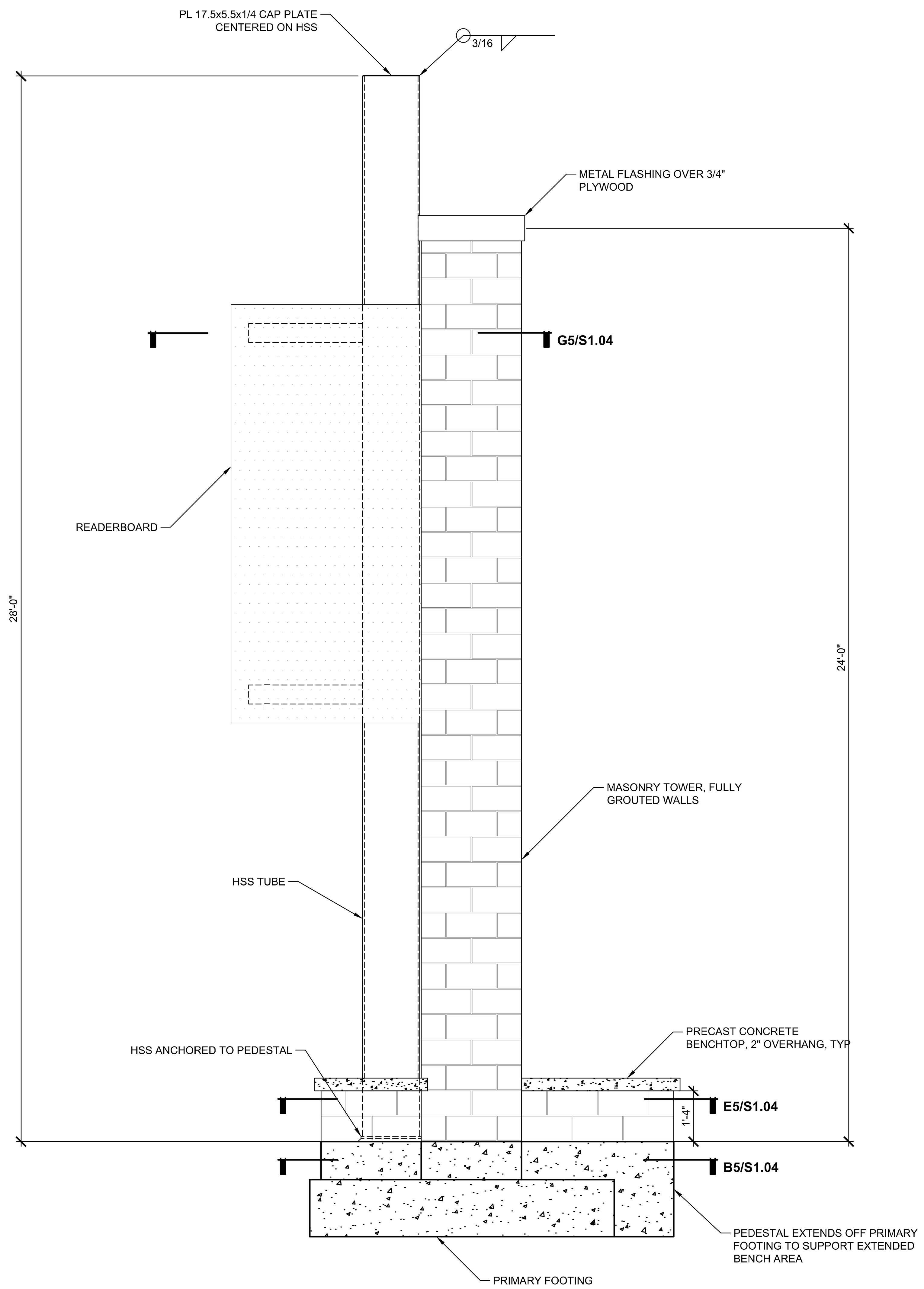
G5 PEDESTAL SECTION
3/4" = 1'-0"



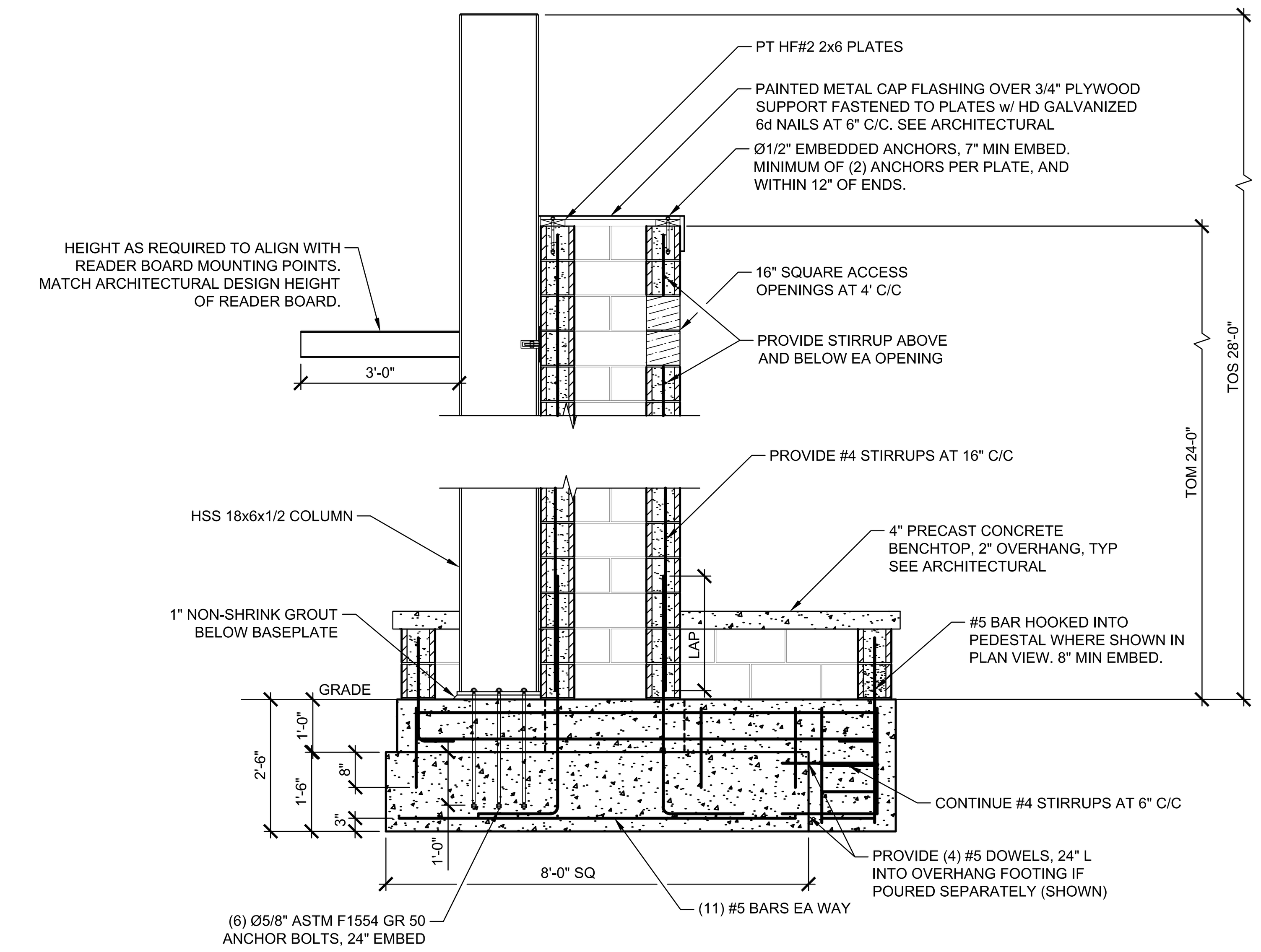
E5 PEDESTAL SECTION
3/4" = 1'-0"



B5 PEDESTAL SECTION
3/4" = 1'-0"



C5 SIDE VIEW
1/2" = 1'-0"



C9 VERTICAL SECTION
1/2" = 1'-0"

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CAD FILE: 9175S0S104.dwg

2023.12.18 17:01:43-08'00'

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
READER BOARD PLANS AND DETAILS

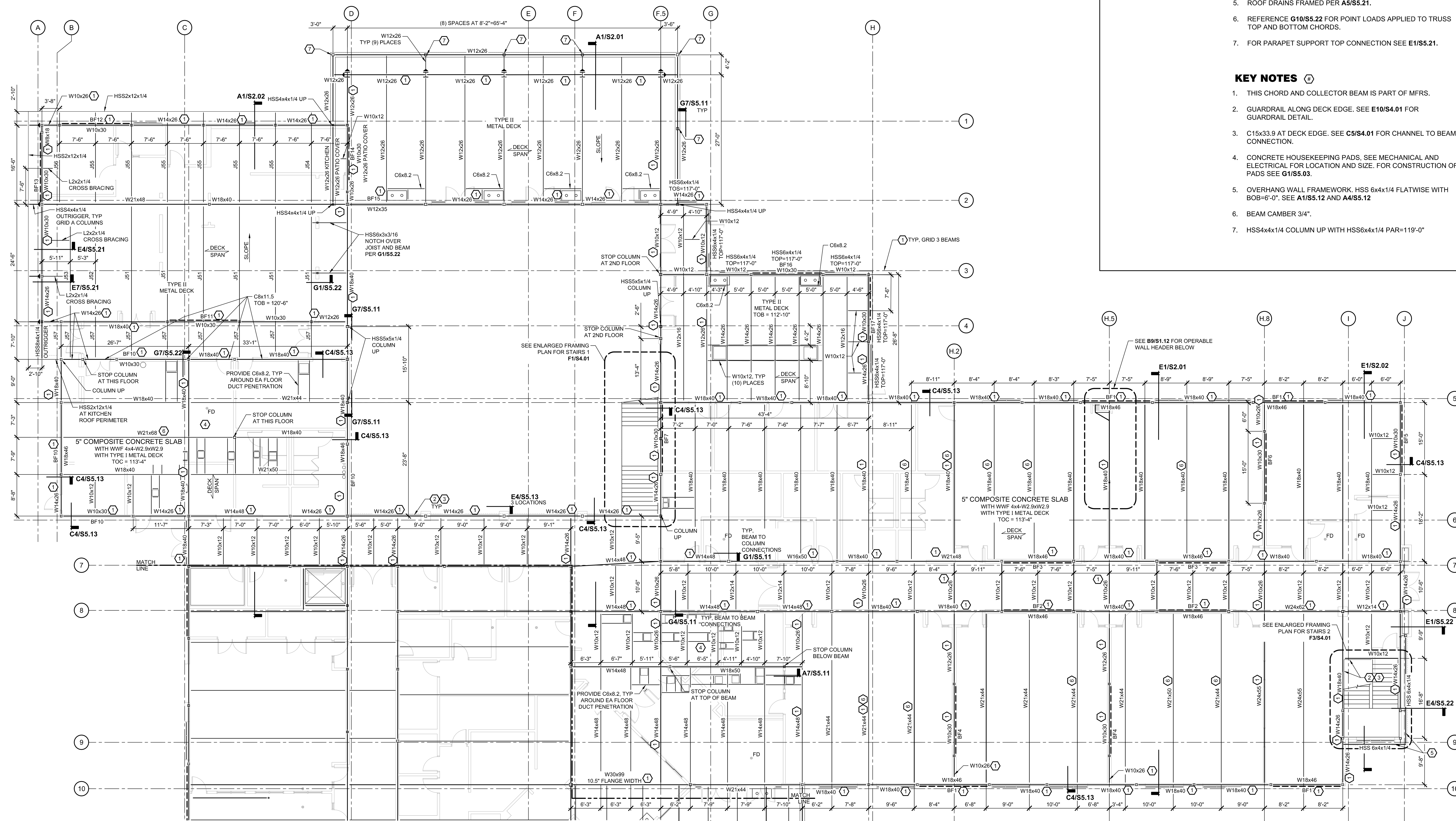
SHEET
S1.04

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES.
3. AN L6x4x3/8 LLV LINTEL ANGLE SHALL BE PLACED ABOVE ALL OPENINGS IN BRICK VENEERS. THE LINTEL ANGLE SHALL EXTEND 8" MINIMUM PAST THE END OF THE OPENING.
4. REFER TO **C1/S6.01** FOR COLD FORMED STEEL SCHEDULE AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. ROOF DRAINS FRAMED PER **A5/S5.21.**
6. REFERENCE **G10/S5.22** FOR POINT LOADS APPLIED TO TRUSS TOP AND BOTTOM CHORDS.
7. FOR PARAPET SUPPORT TOP CONNECTION SEE **E1/S5.21.**

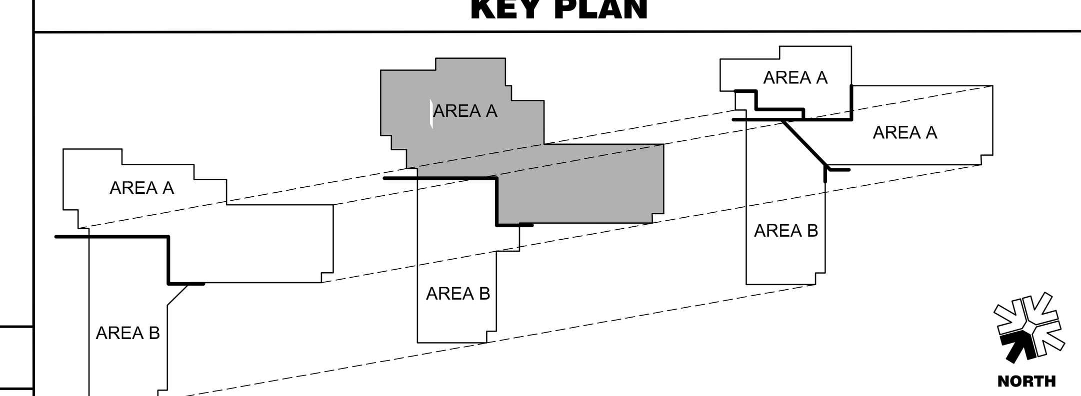
KEY NOTES

1. THIS CHORD AND COLLECTOR BEAM IS PART OF MFRS.
2. GUARDRAIL ALONG DECK EDGE. SEE **E10/S4.01** FOR GUARDRAIL DETAIL.
3. C15x33.9 AT DECK EDGE. SEE **C5/S4.01** FOR CHANNEL TO BEAM CONNECTION.
4. CONCRETE HOUSEKEEPING PADS, SEE MECHANICAL AND ELECTRICAL FOR LOCATION AND SIZE. FOR CONSTRUCTION OF PADS SEE **G1/S5.03.**
5. OVERHANG WALL FRAMEWORK. HSS 6x4x1/4 FLATWISE WITH BOB=6'-0". SEE **A1/S5.12** AND **A4/S5.12**
6. BEAM CAMBER 3/4".
7. HSS4x4x1/4 COLUMN UP WITH HSS6x4x1/4 PAR=119'-0"



A1 **SECOND FLOOR FRAMING PLAN**
SCALE: 1/8" = 1'-0"

NORTH



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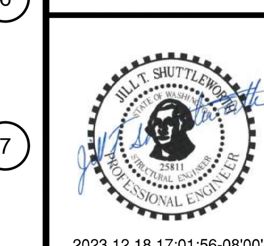


PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SECOND FLOOR FRAMING PLAN
AREA A

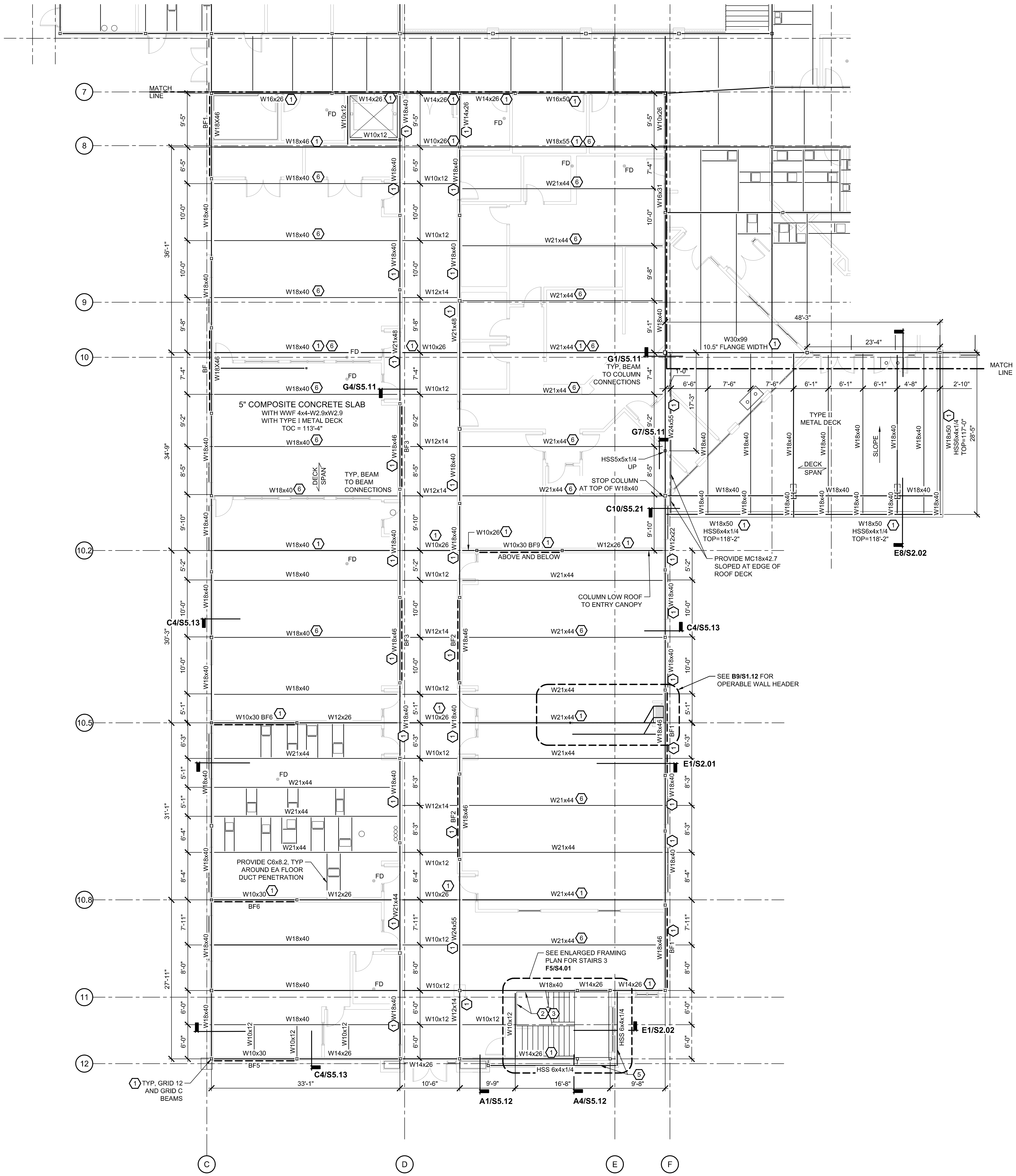
SHEET
S1.11

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES.
3. AN L6x4x3/8 LLV LINTEL ANGLE SHALL BE PLACED ABOVE ALL OPENINGS IN BRICK VENEERS. THE LINTEL ANGLE SHALL EXTEND 8" MINIMUM PAST THE END OF THE OPENING.
4. REFER TO **C1/S6.01** FOR COLD FORMED STEEL SCHEDULE AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. ROOF DRAINS FRAMED PER **A5/S5.21**.
6. PROVIDE 3/4" CAMBER.

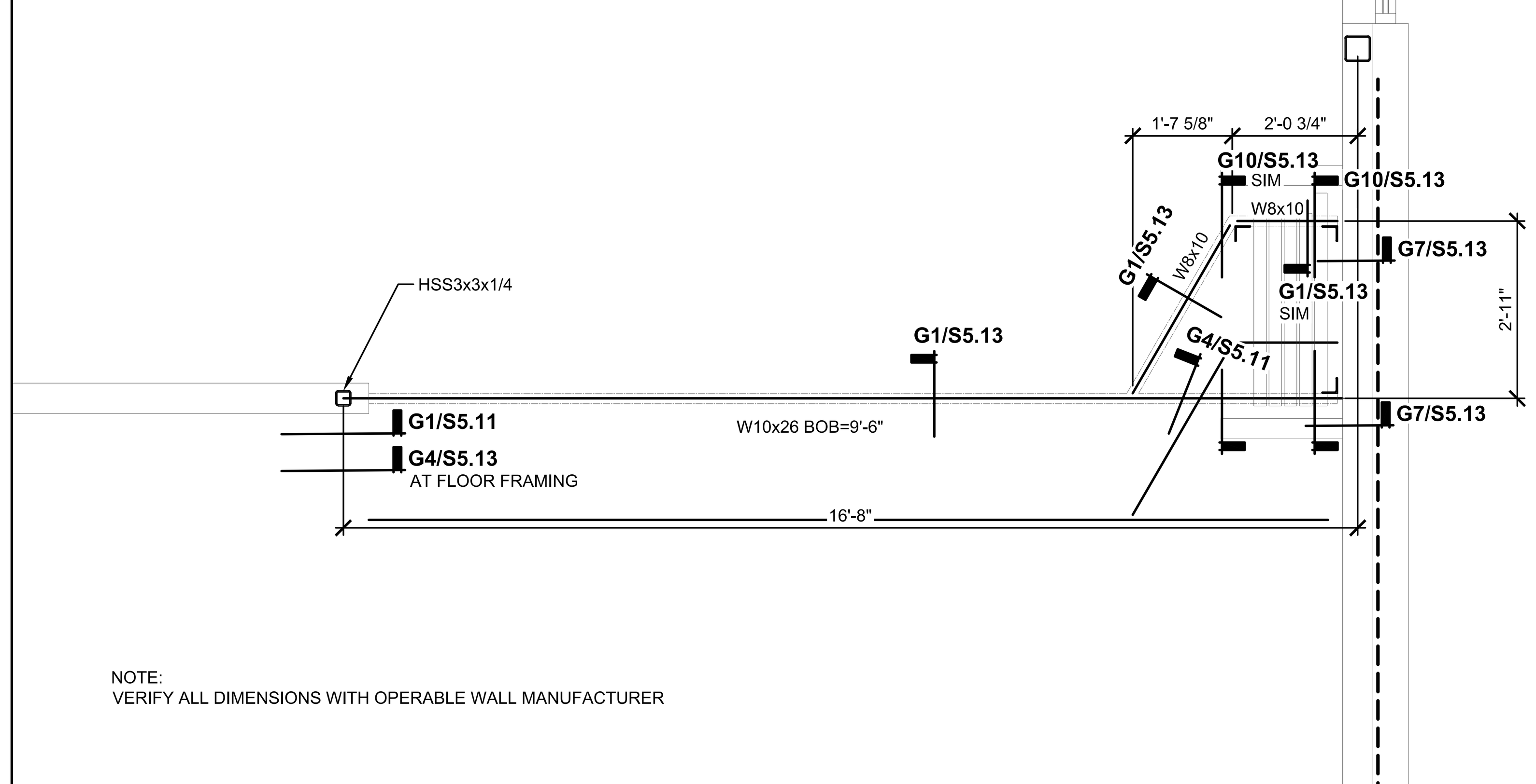
KEY NOTES

1. CHORD AND COLLECTOR BEAM PART OF MFRS.
2. GUARDRAIL ALONG DECK EDGE. SEE **E10/S4.01** FOR GUARDRAIL DETAIL.
3. C15x33.9 AT DECK EDGE. SEE **C5/S4.01** FOR CHANNEL TO BEAM CONNECTION.
4. CONCRETE HOUSEKEEPING PADS, SEE MECHANICAL AND ELECTRICAL FOR LOCATION AND SIZE. FOR CONSTRUCTION OF PADS SEE **G1/S5.03**.
5. OVERHANG WALL FRAMEWORK. HSS 6x4x1/4 FLATWISE WITH BOB=6'-0". SEE **A1/S5.12** AND **A4/S5.12**



A1 SECOND FLOOR FRAMING PLAN

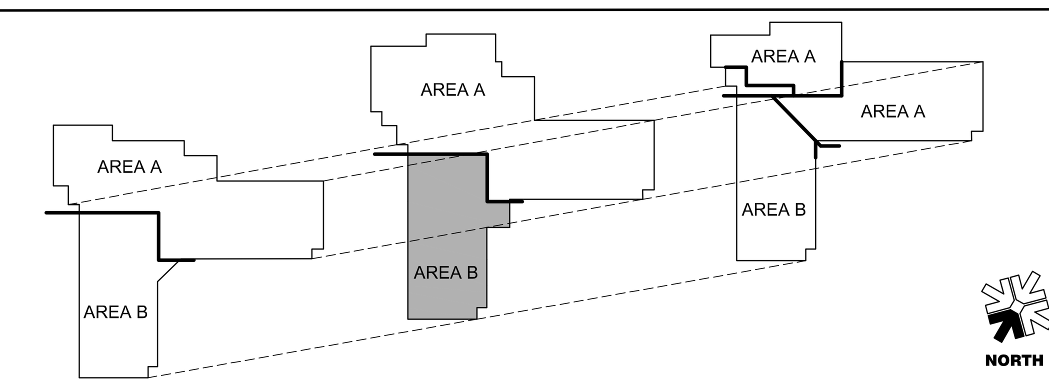
SCALE: 1/8" = 1'-0"



B9 OPERABLE WALL FRAMING PLAN

SCALE: 1/2" = 1'-0" REF: S1.11, S1.12

KEY PLAN



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PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
SECOND FLOOR FRAMING PLAN
AREA B

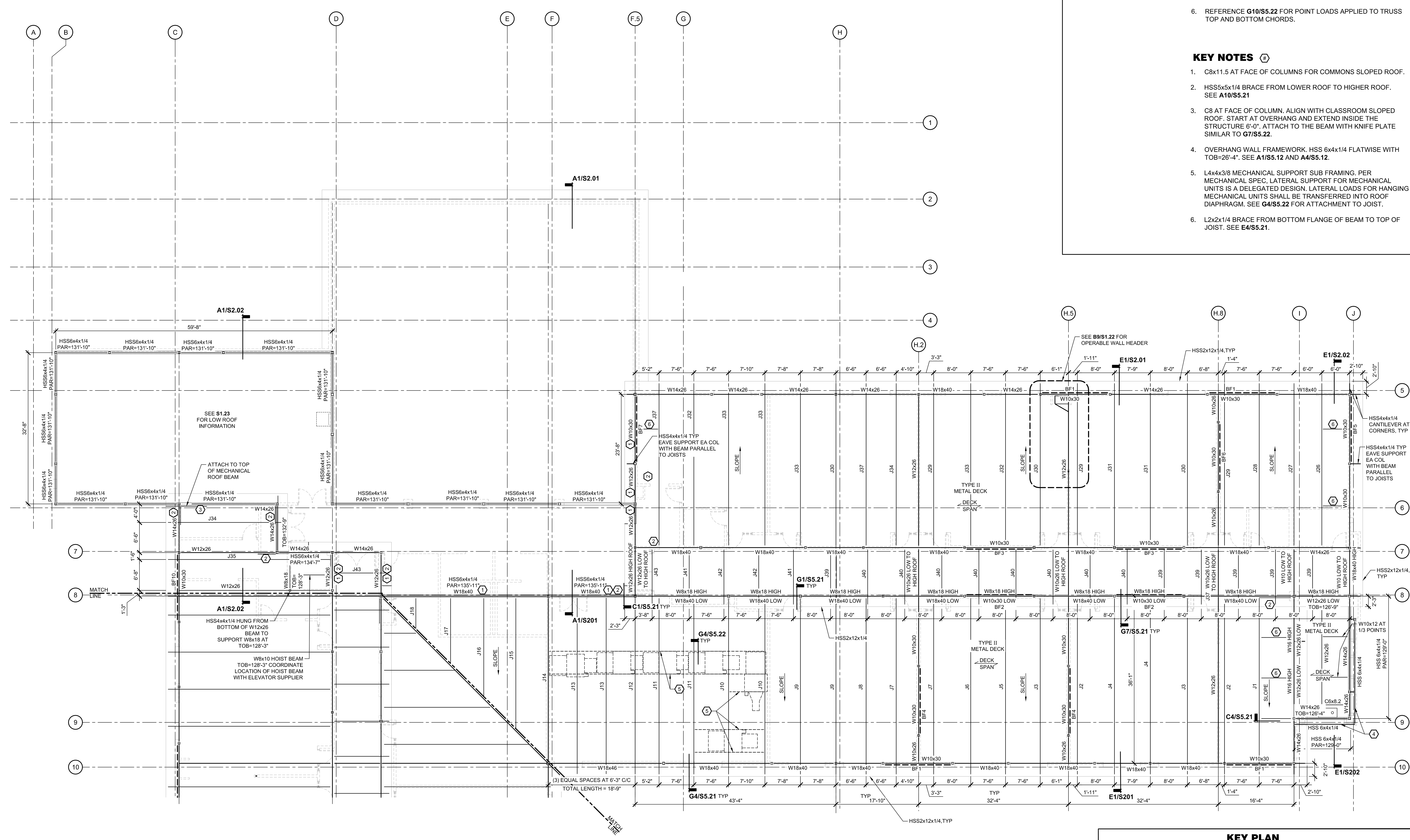
SHEET
S1.12

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES.
3. ROOF DRAINS FRAMED PER **A5/S5.21**
4. AN L6x4x3/8 LLV LINTEL ANGLE SHALL BE PLACED ABOVE ALL OPENINGS IN BRICK VENEERS. THE LINTEL ANGLE SHALL EXTEND 8" MINIMUM PAST THE END OF THE OPENING.
5. REFER TO **C1/S6.01** FOR COLD FORMED STEEL SCHEDULE AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
6. REFERENCE **G10/S5.22** FOR POINT LOADS APPLIED TO TRUSS TOP AND BOTTOM CHORDS.

KEY NOTES

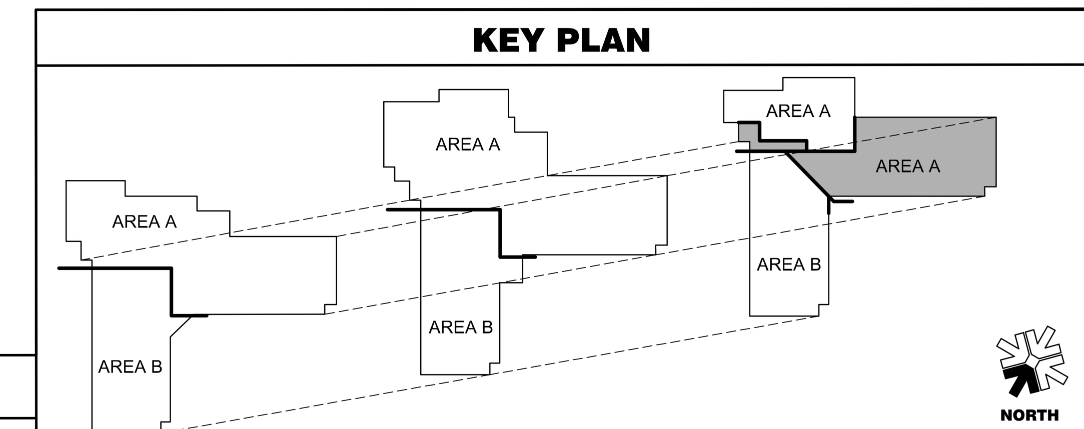
1. C8x11.5 AT FACE OF COLUMNS FOR COMMONS SLOPED ROOF.
2. HSS5x5x1/4 BRACE FROM LOWER ROOF TO HIGHER ROOF. SEE **A10/S5.21**
3. C8 AT FACE OF COLUMN. ALIGN WITH CLASSROOM SLOPED ROOF. START AT OVERHANG AND EXTEND INSIDE THE STRUCTURE 6'-0". ATTACH TO THE BEAM WITH KNIFE PLATE SIMILAR TO **G7/S5.22**.
4. OVERHANG WALL FRAMEWORK. HSS 6x4x1/4 FLATWISE WITH TOB=26'-4". SEE **A1/S5.12** AND **A4/S5.12**.
5. L4x4x3/8 MECHANICAL SUPPORT SUB FRAMING. PER MECHANICAL SPEC, LATERAL SUPPORT FOR MECHANICAL UNITS IS A DELEGATED DESIGN. LATERAL LOADS FOR HANGING MECHANICAL UNITS SHALL BE TRANSFERRED INTO ROOF DIAPHRAGM. SEE **G4/S5.22** FOR ATTACHMENT TO JOIST.
6. L2x2x1/4 BRACE FROM BOTTOM FLANGE OF BEAM TO TOP OF JOIST. SEE **E4/S5.21**.



A1 ROOF FRAMING PLAN

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

KEY PLAN



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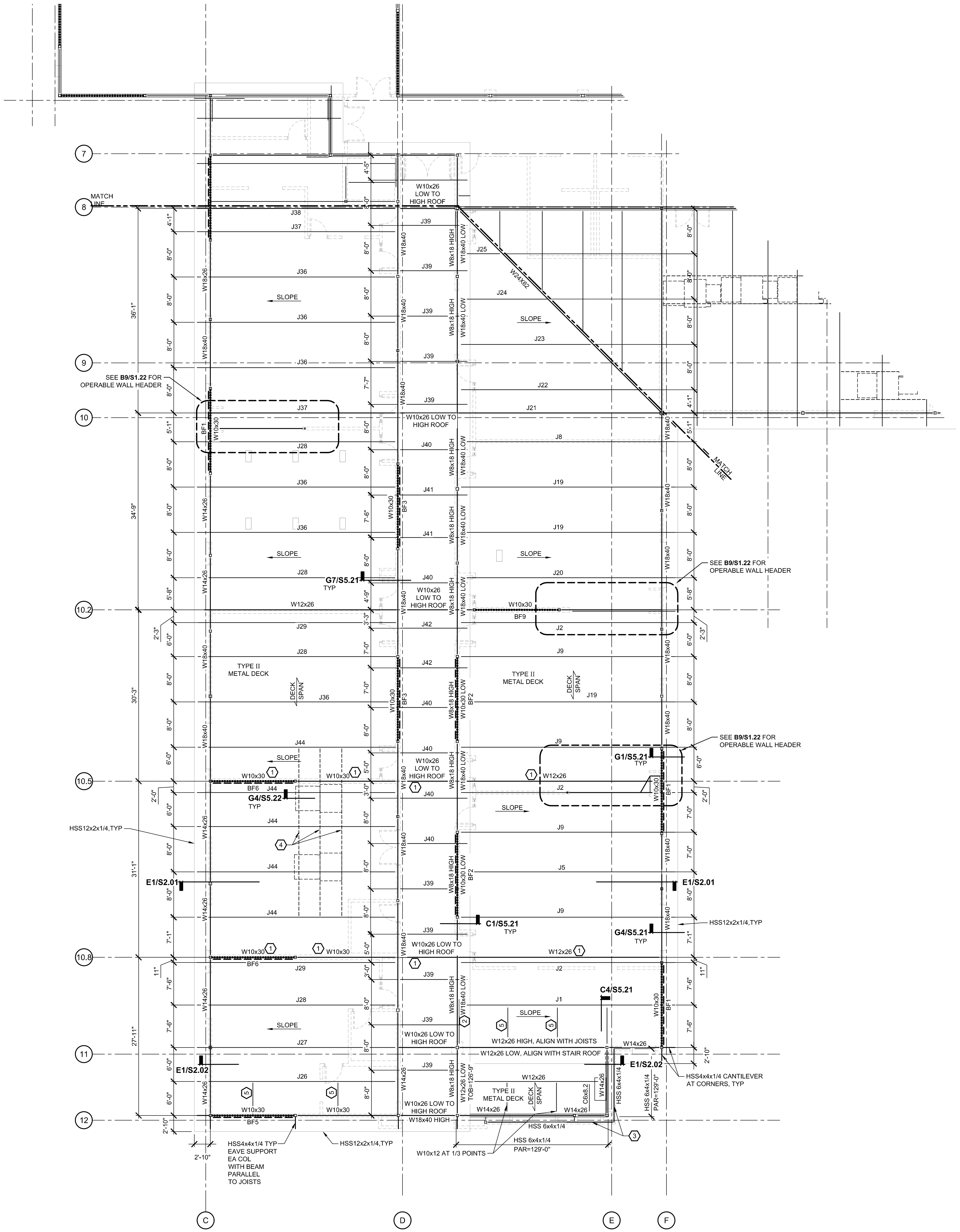
PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE	12/18/2023
SHEET NAME	ROOF FRAMING PLAN AREA A
SHEET	S1.21



A1 ROOF FRAMING PLAN

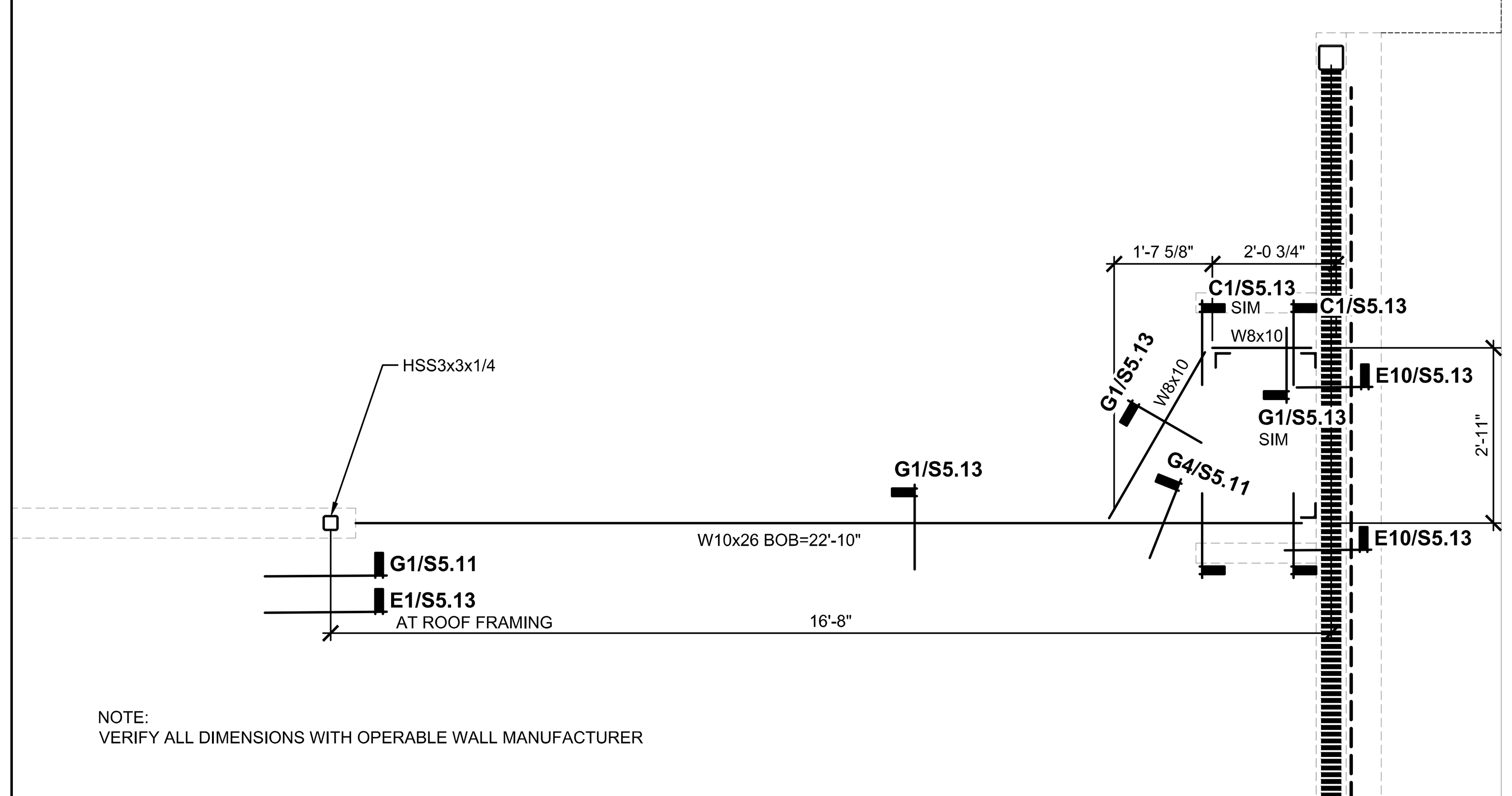
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES.
3. ROOF DRAINS FRAMED PER **A5/S5.21**
4. AN L6x4x3/8 LLV LINTEL ANGLE SHALL BE PLACED ABOVE ALL OPENINGS IN BRICK VENEERS. THE LINTEL ANGLE SHALL EXTEND 8" MINIMUM PAST THE END OF THE OPENING.
5. REFER TO **C1/S6.01** FOR COLD FORMED STEEL SCHEDULE AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
6. REFERENCE **G10/S5.22** FOR POINT LOADS APPLIED TO TRUSS TOP AND BOTTOM CHORDS.

KEY NOTES

1. BEAM IS CHORD OR COLLECTOR OF MFRS.
2. HSS5x5x1/4 BRACE FROM LOWER ROOF TO HIGHER ROOF. SEE **A10/S5.21**.
3. OVERHANG WALL FRAMEWORK. HSS 6x4x1/4 FLATWISE WITH TOB=26'-4". SEE **A1/S5.12** AND **A4/S5.12**.
4. L4x4x3/8 MECHANICAL SUPPORT SUB FRAMING. PER MECHANICAL SPEC, LATERAL SUPPORT FOR MECHANICAL UNITS IS A DELEGATED DESIGN. LATERAL LOADS FOR HANGING MECHANICAL UNITS SHALL BE TRANSFERRED INTO ROOF DIAPHRAGM. SEE **G4/S5.22** FOR ATTACHMENT TO JOIST.
5. L2x2x1/4 BRACE FROM BOTTOM FLANGE OF BEAM TO TOP OF JOIST. **SEE E4/S5.21**.

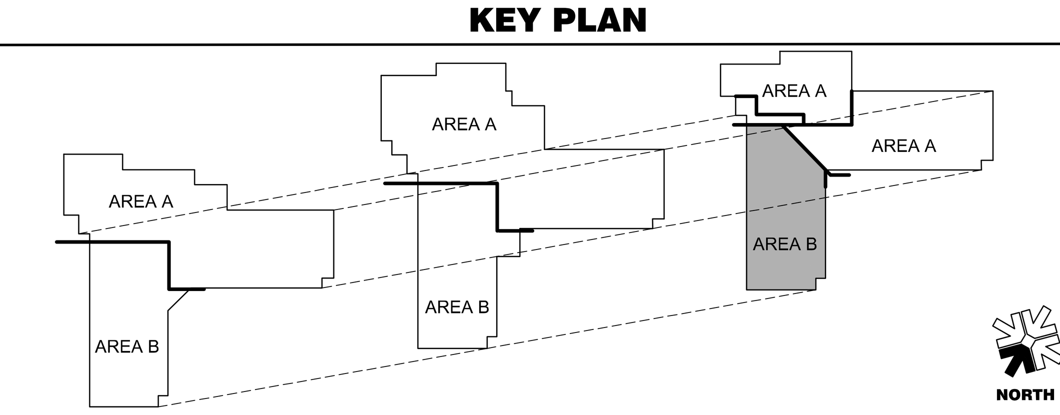


NOTE:
VERIFY ALL DIMENSIONS WITH OPERABLE WALL MANUFACTURER

B9 OPERABLE WALL FRAMING PLAN

SCALE: 1/2" = 1'-0" REF: S1.21, S1.22

KEY PLAN



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ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
ROOF FRAMING PLAN
AREA B

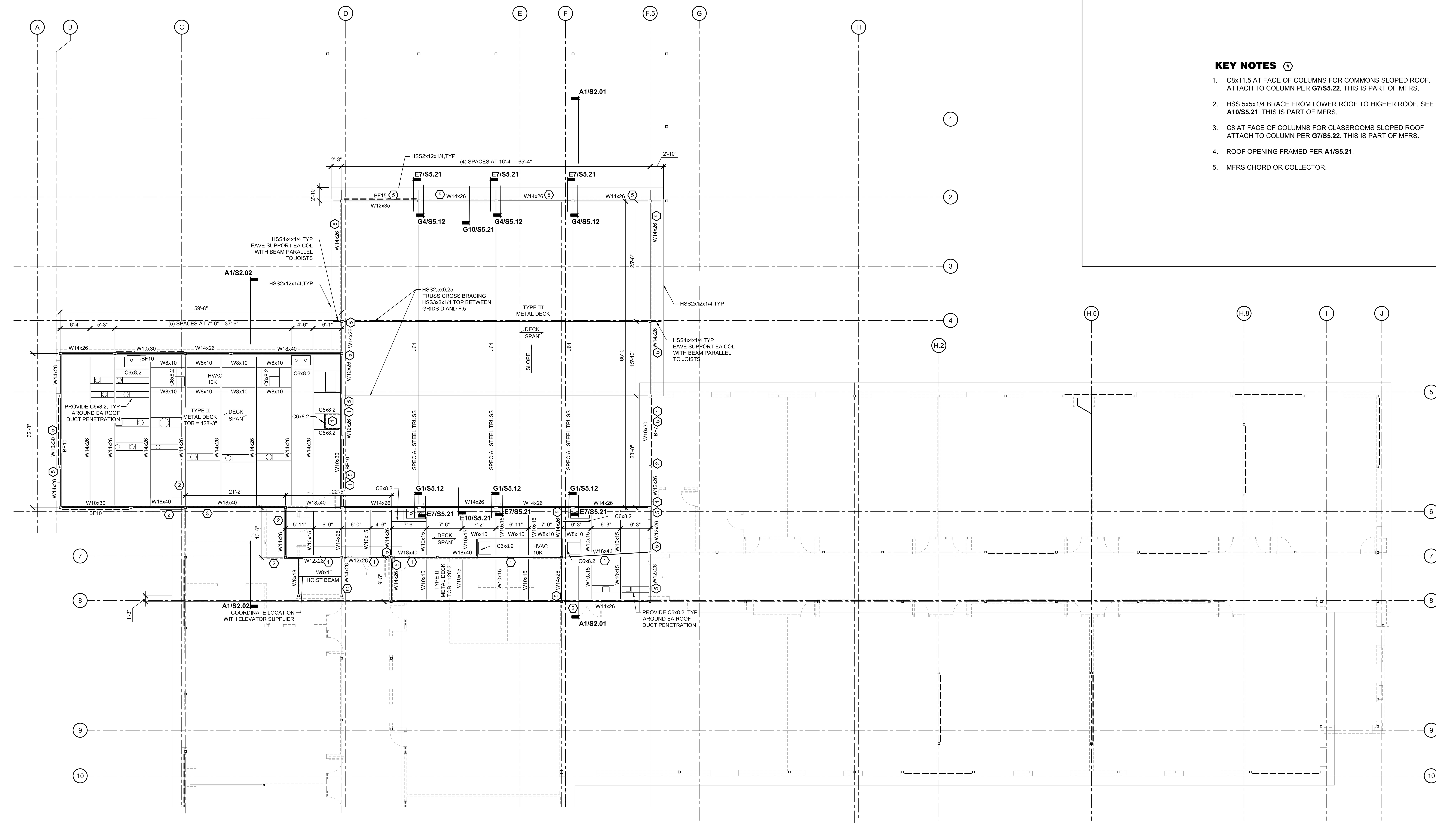
SHEET
S1.22

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES.
3. ROOF DRAINS FRAMED PER **A5/S5.21**
4. REFER TO **C1/S6.01** FOR COLD FORMED STEEL SCHEDULE AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. REFERENCE **G10/S5.22** FOR POINT LOADS APPLIED TO TRUSS TOP AND BOTTOM CHORDS.

KEY NOTES

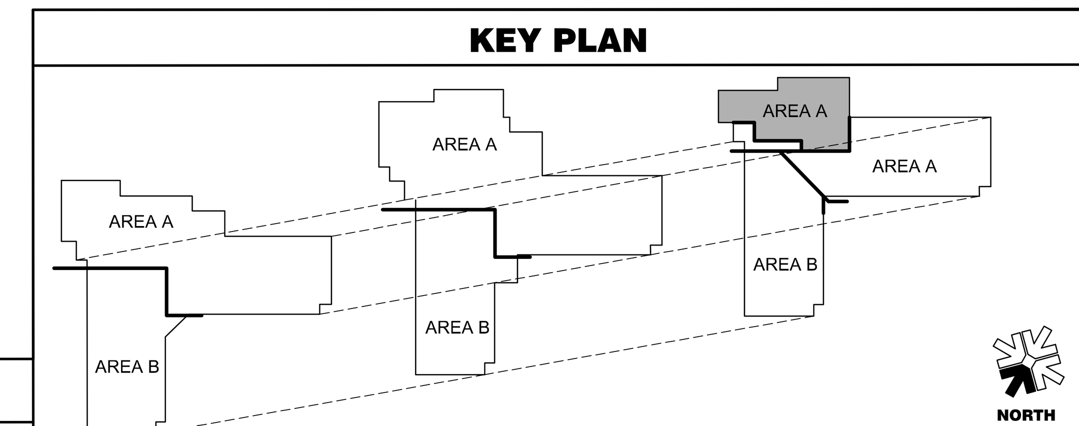
1. C8x11.5 AT FACE OF COLUMNS FOR COMMONS SLOPED ROOF. ATTACH TO COLUMN PER **G7/S5.22**. THIS IS PART OF MFRS.
2. HSS 5x5x1/4 BRACE FROM LOWER ROOF TO HIGHER ROOF. SEE **A10/S5.21**. THIS IS PART OF MFRS.
3. C8 AT FACE OF COLUMNS FOR CLASSROOMS SLOPED ROOF. ATTACH TO COLUMN PER **G7/S5.22**. THIS IS PART OF MFRS.
4. ROOF OPENING FRAMED PER **A1/S5.21**.
5. MFRS CHORD OR COLLECTOR.



A1 **ROOF FRAMING PLAN**

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

KEY PLAN



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PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: ROOF FRAMING PLAN AREA A

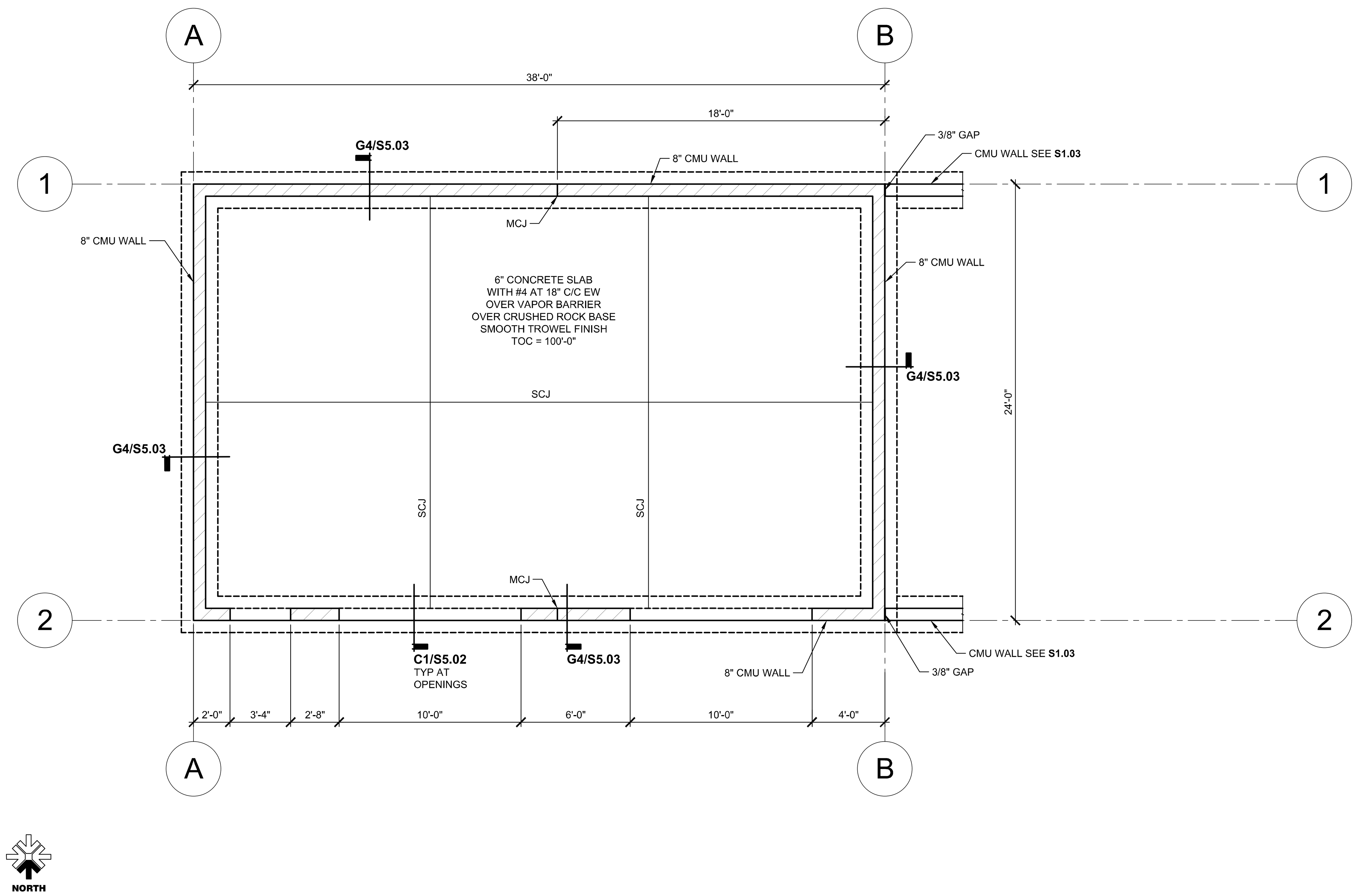
SHEET: S1.23

SHEET NOTES

1. SEE **S0.01** FOR GENERAL NOTES AND LEGEND.
2. SEE **S6.01** FOR SCHEDULES AND MASONRY WALL REINFORCEMENT PLACING INFORMATION.
3. CMU WALLS SHALL HAVE (1) #5 VERTICAL REINFORCEMENT AT 32" C/C AND (1) #5 HORIZONTAL REINFORCEMENT AT 48" C/C.
4. PROVIDE SAWN CONTROL JOINTS IN CONCRETE SLAB AT 12'-6" C/C MAX EACH WAY.

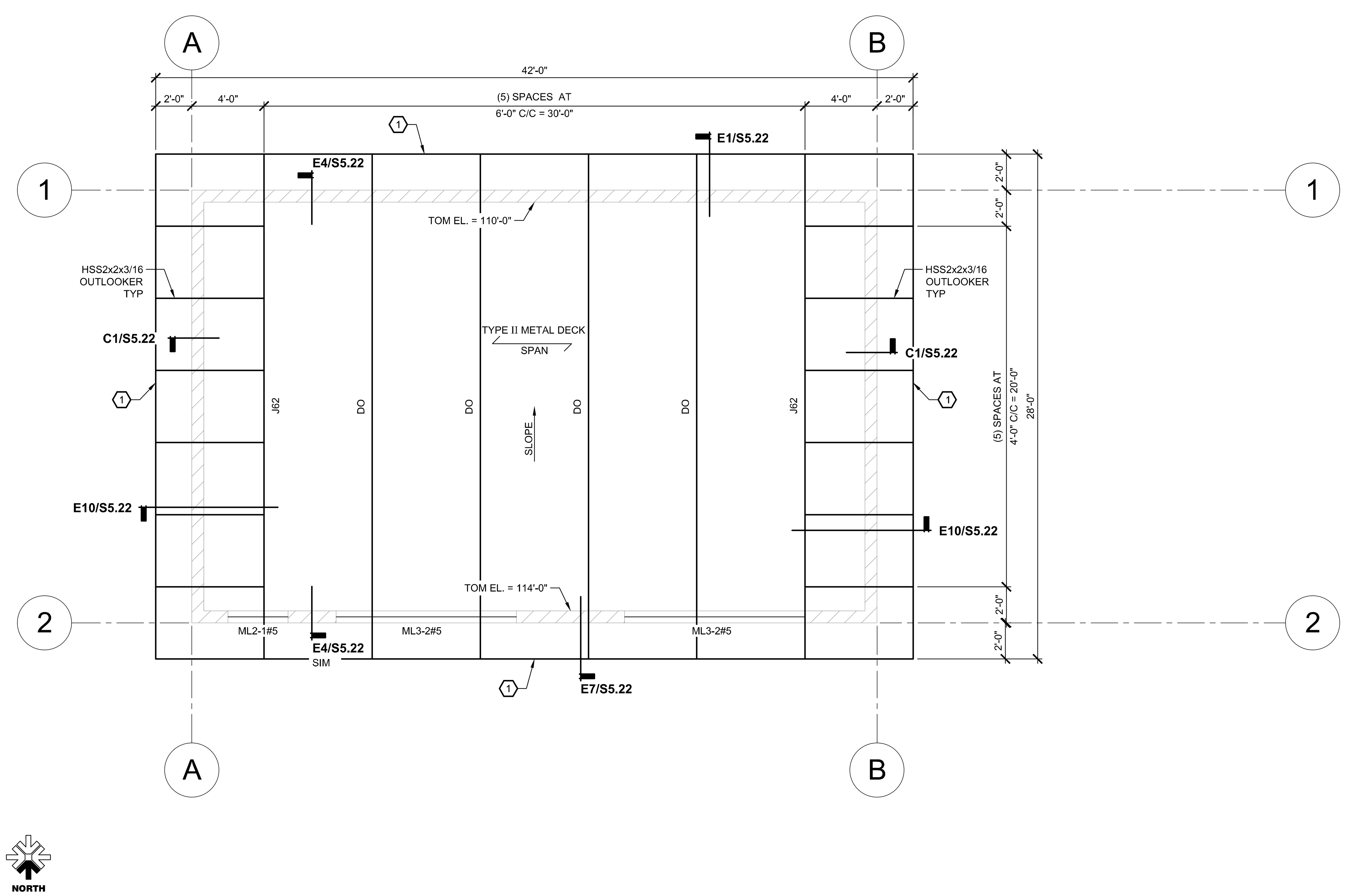
KEY NOTES

1. HSS12x2x3/16" EXPOSED FASCIA. SEE ARCH. FOR REQUIRED FINISH.



E1 FOUNDATION PLAN - BID ALT 3: MAINTENANCE, BID ALT 4: STORAGE

1/4" = 1'-0"



A1 ROOF PLAN - BID ALT 3: MAINTENANCE, BID ALT 4: STORAGE

1/4" = 1'-0"

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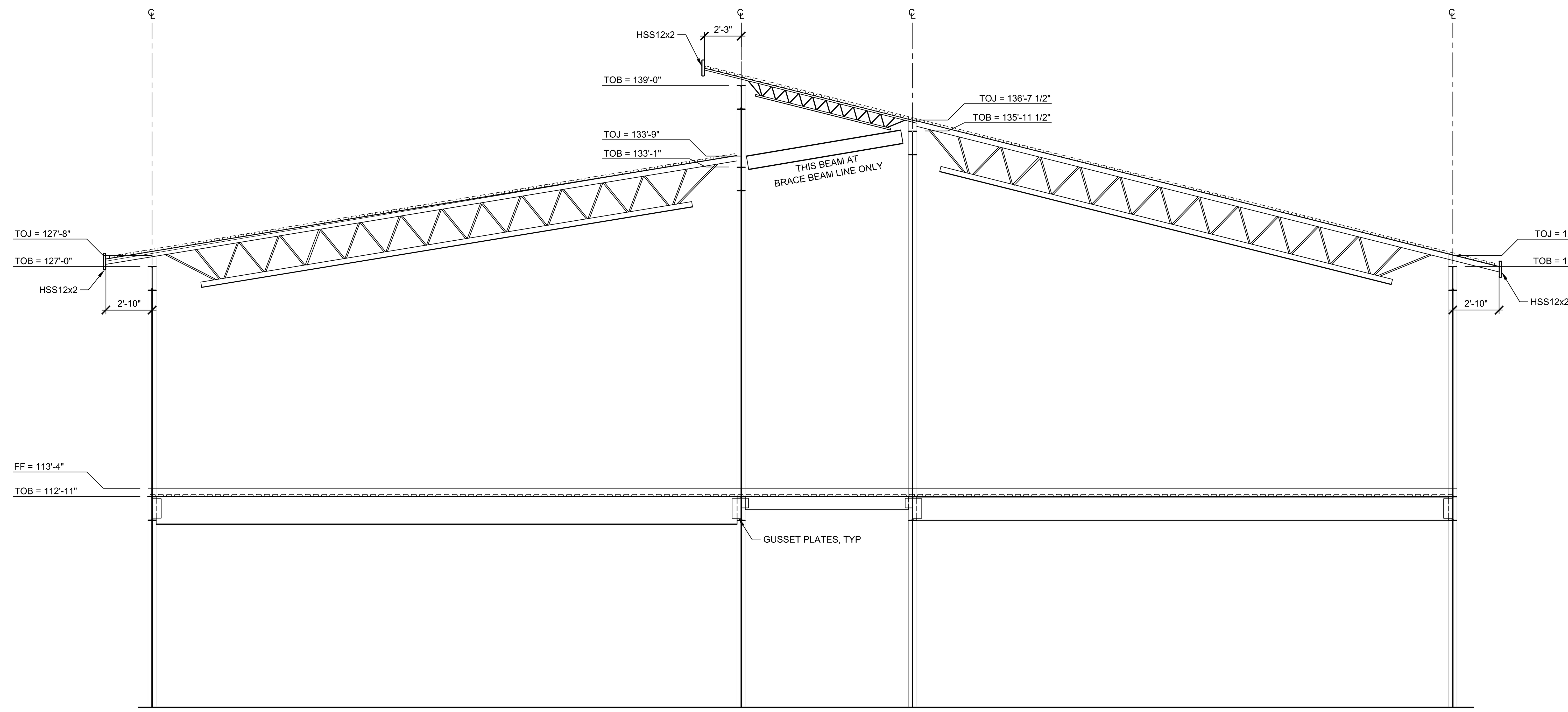
PASCO, WASHINGTON 99301

DATE
12/18/2023

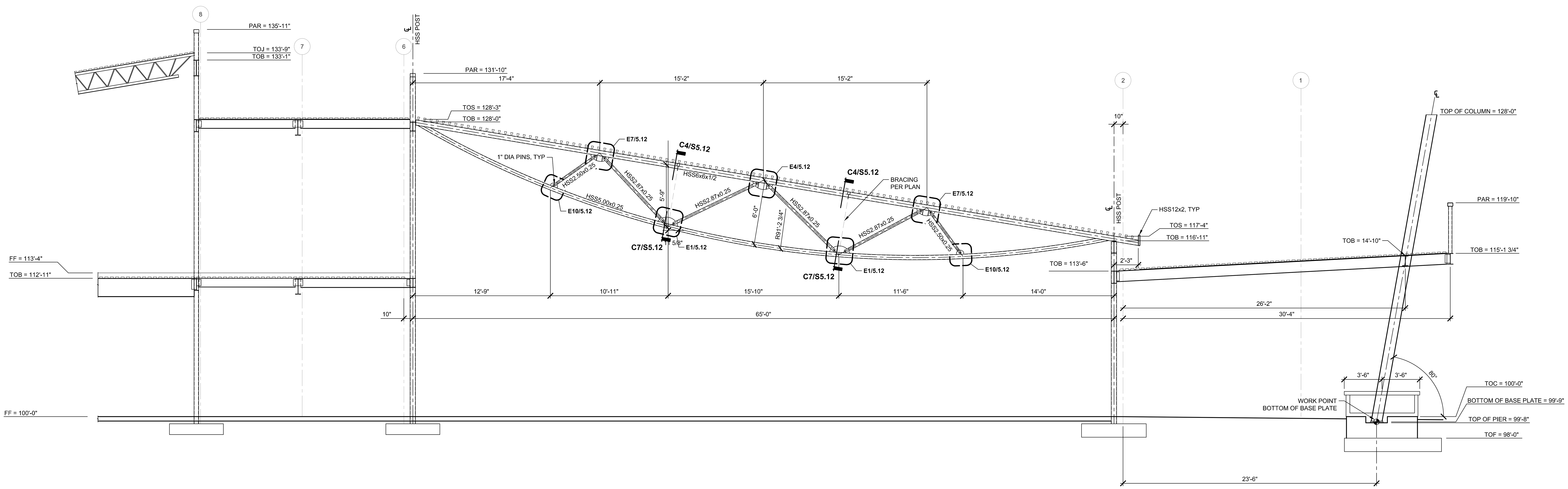
SHEET NAME
MAINT. & STORAGE BLDG. BID ALT

SHEET
S1.51



E1 ELEVATION

1/4" = 1'-0" REF: S1.01, S1.02, S1.11, S1.12, S1.21, S1.22



A1 ELEVATION

1/4" = 1'-0" REF: S1.01, S1.11, S1.21, S1.23

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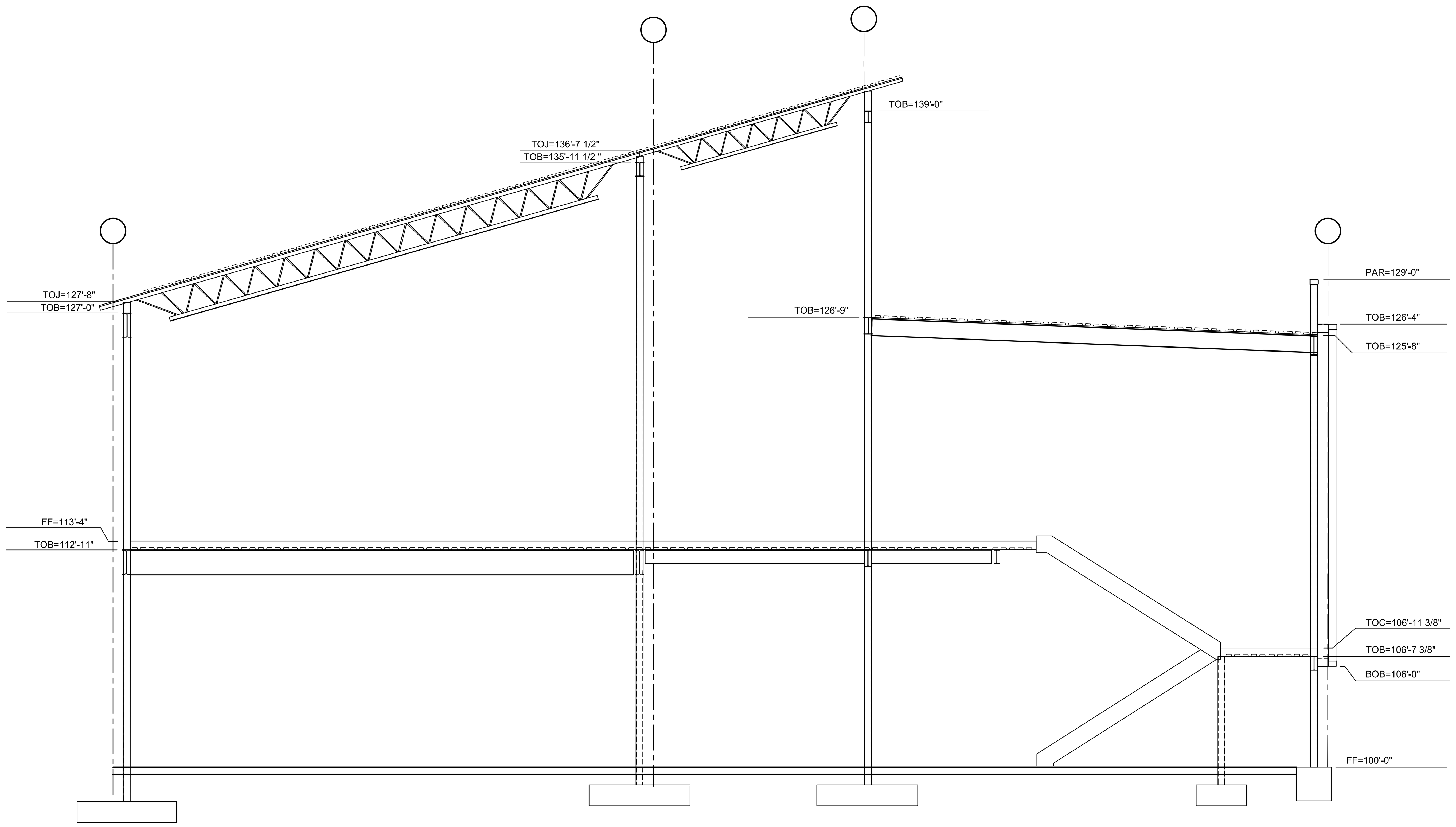
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

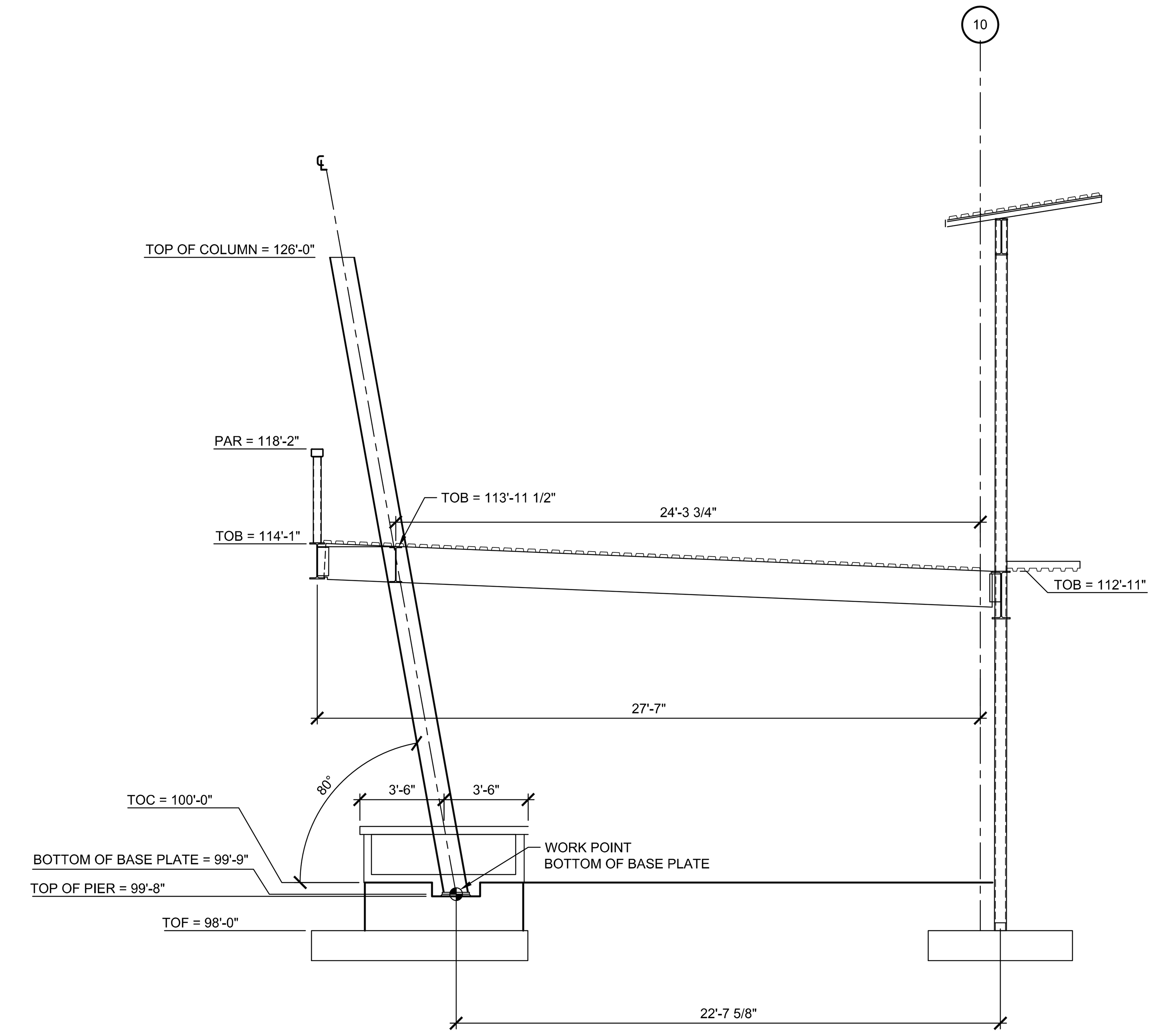
SHEET NAME
FRAMING ELEVATIONS

SHEET
S2.01



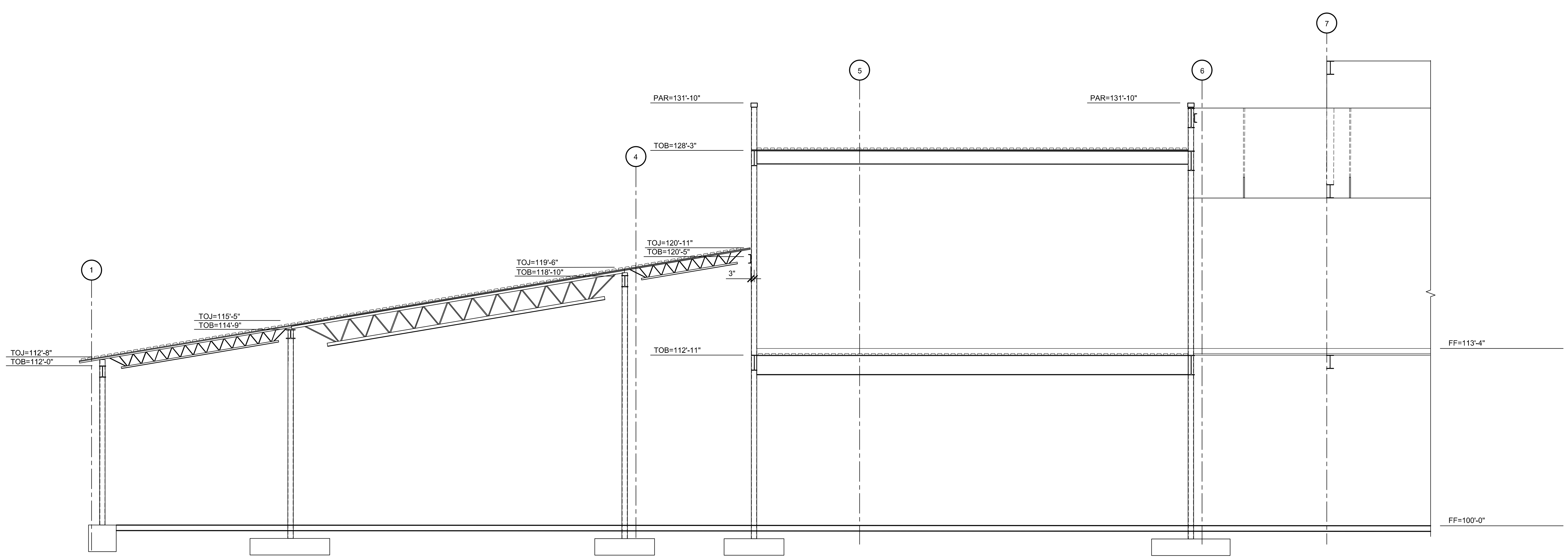
E1 **ELEVATION**

1/4" = 1'-0" REF: S1.01, S1.02, S1.11, S1.12, S1.21, S1.22



E8 **ENTRY CANOPY SECTION**

1/4" = 1'-0" REF: S1.02, S1.12



A1 **ELEVATION**

1/4" = 1'-0" REF: S1.01, S1.11, S1.21, S1.23

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PASCO, WASHINGTON 99301

DATE

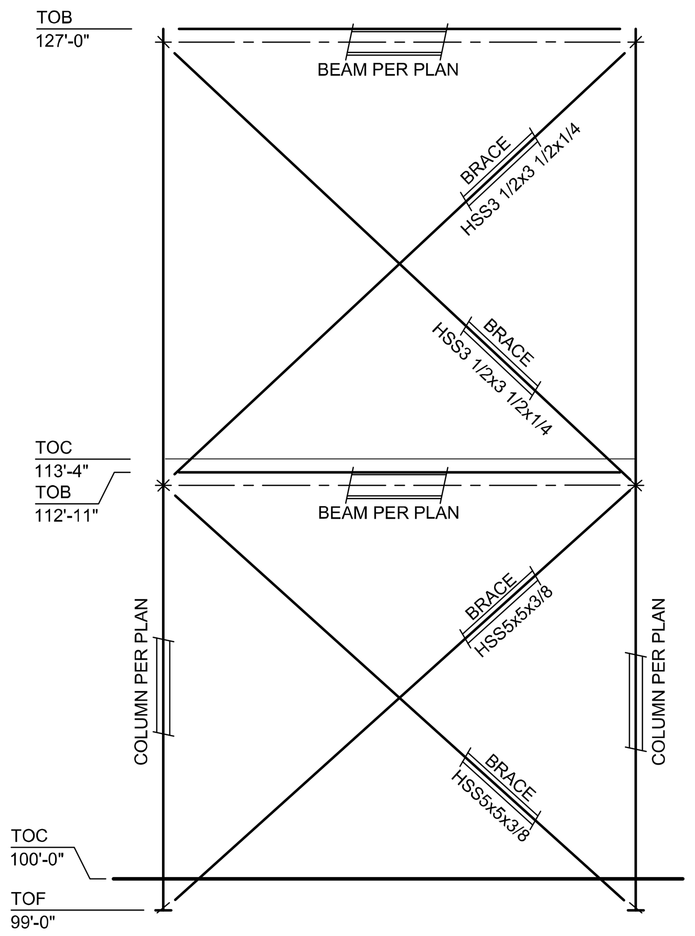
12/18/2023

SHEET NAME

TRUSS PROFILE

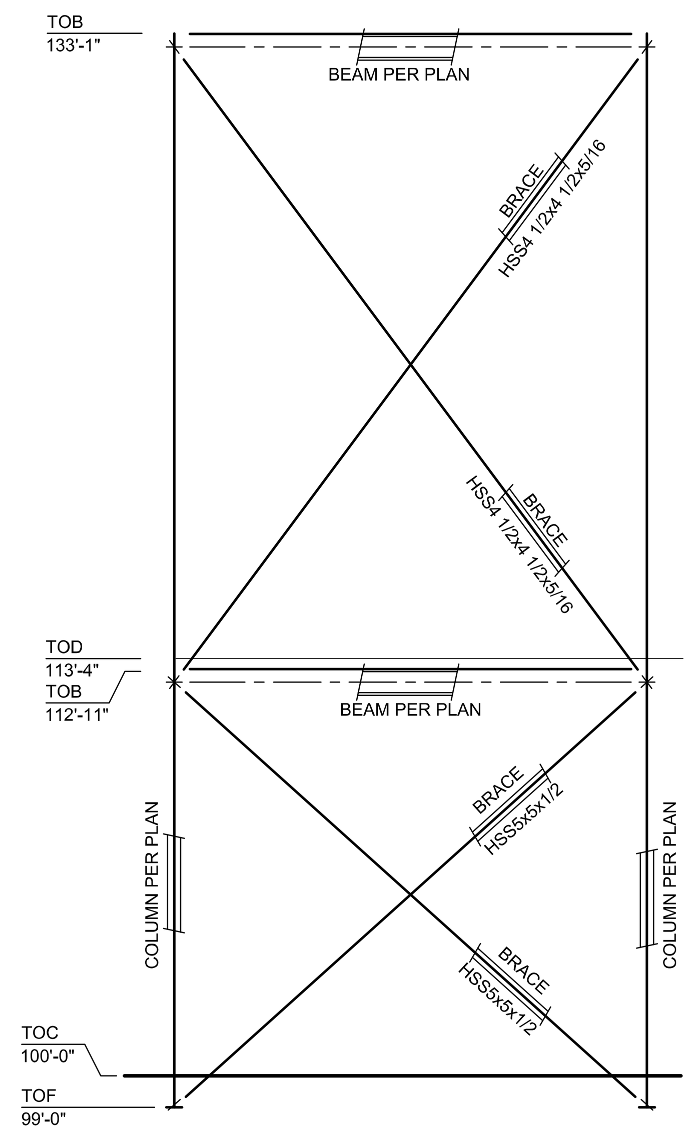
SHEET

S2.02



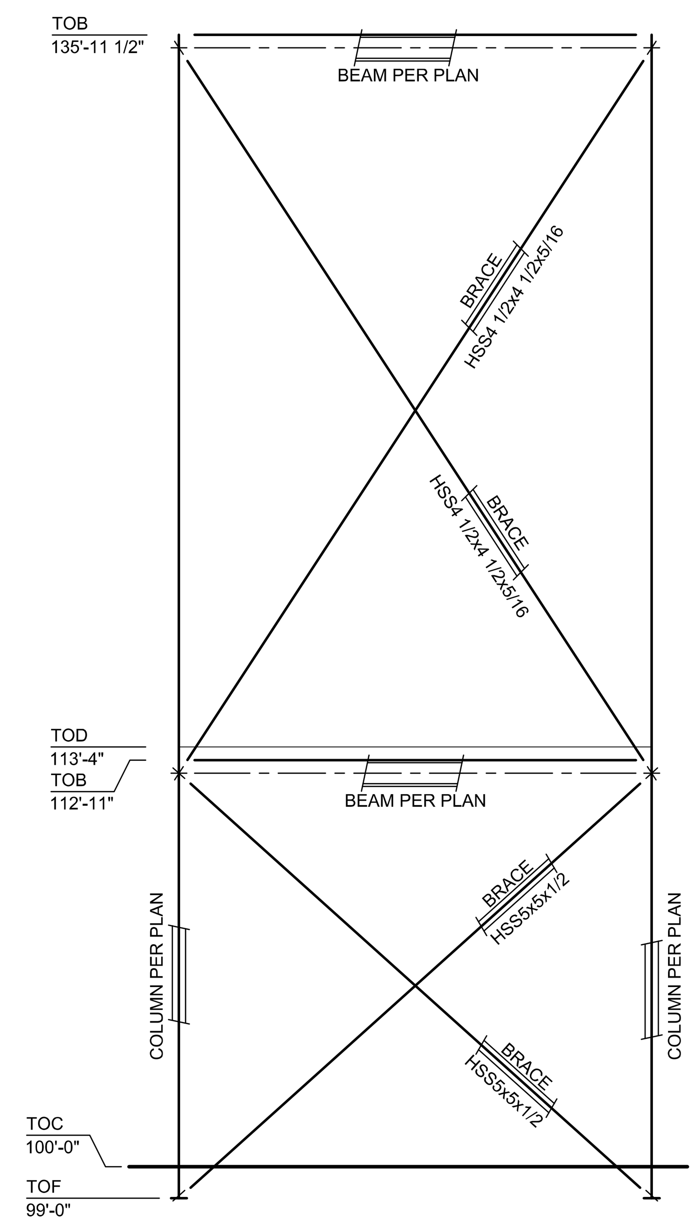
E1 ELEVATION BF1

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



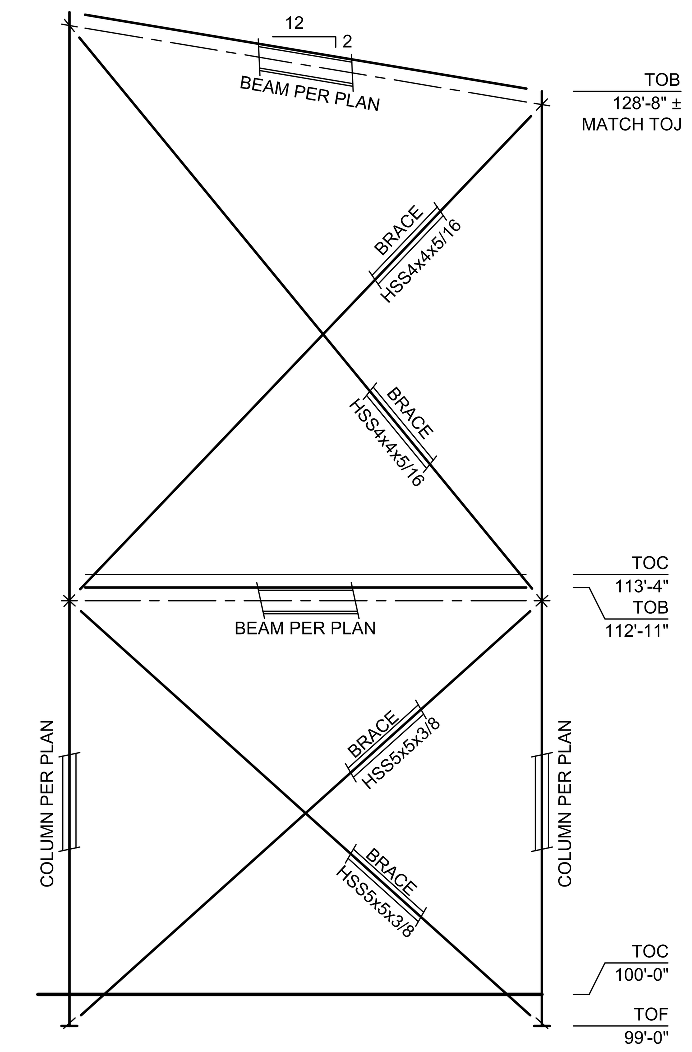
E4 ELEVATION BF2

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



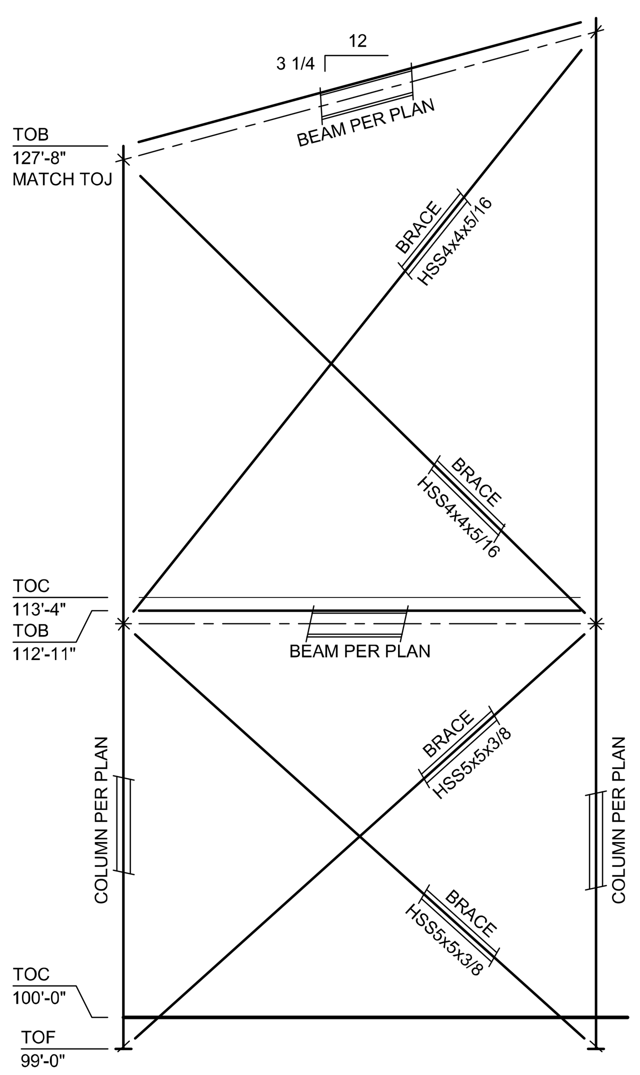
E7 ELEVATION BF3

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



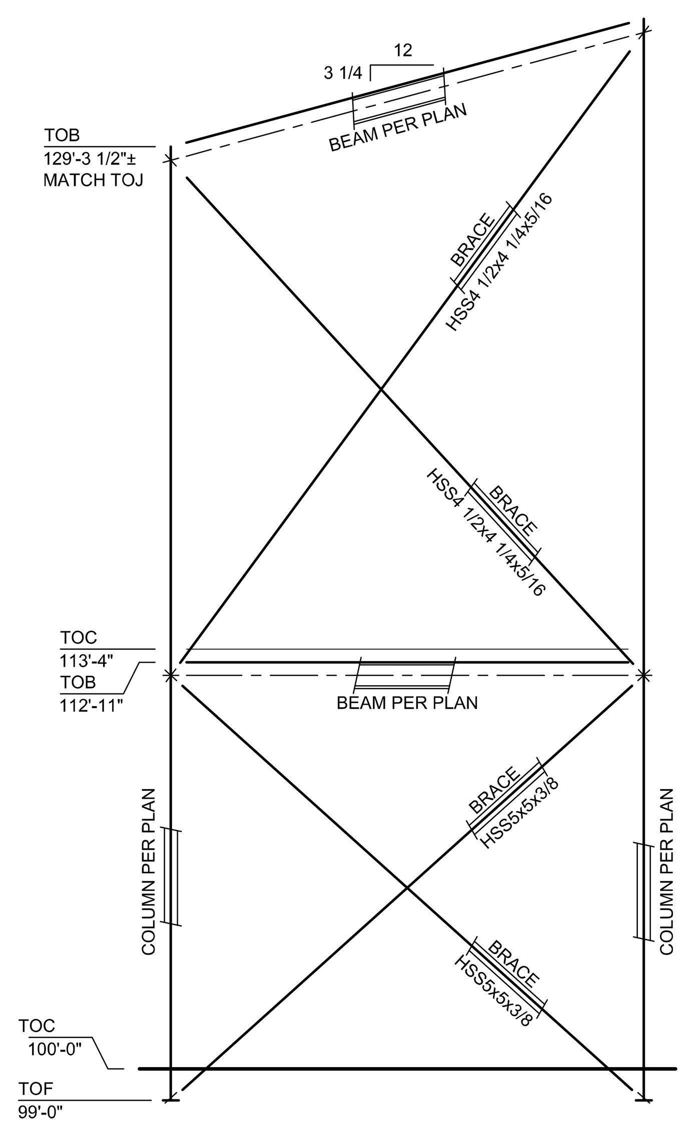
E10 ELEVATION BF4

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



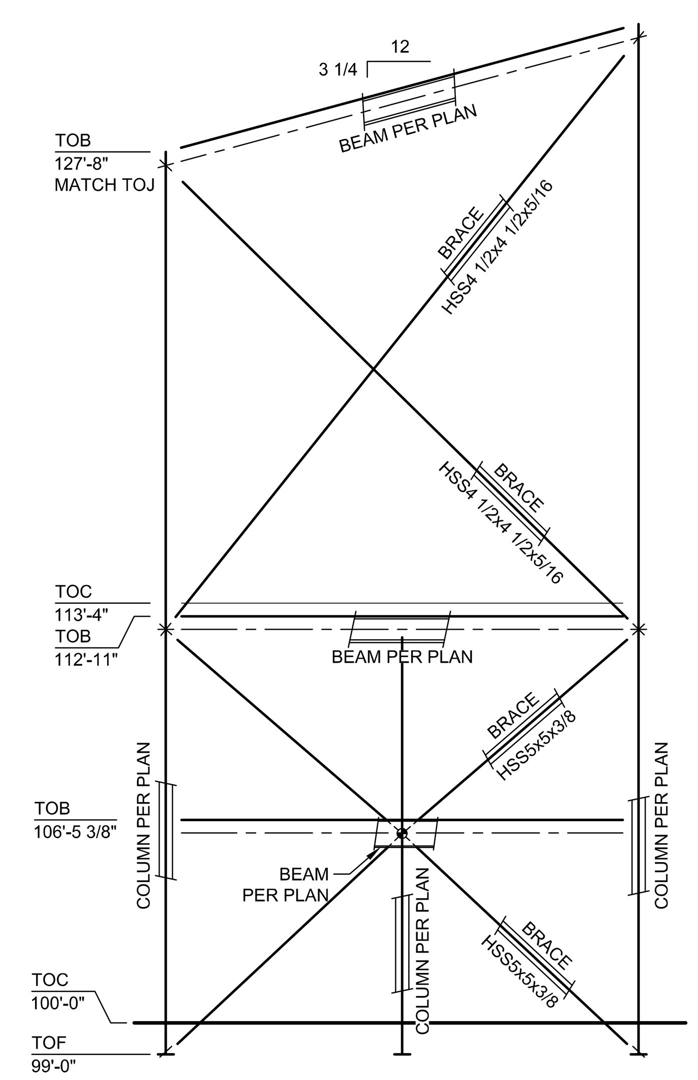
A1 ELEVATION BF5

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



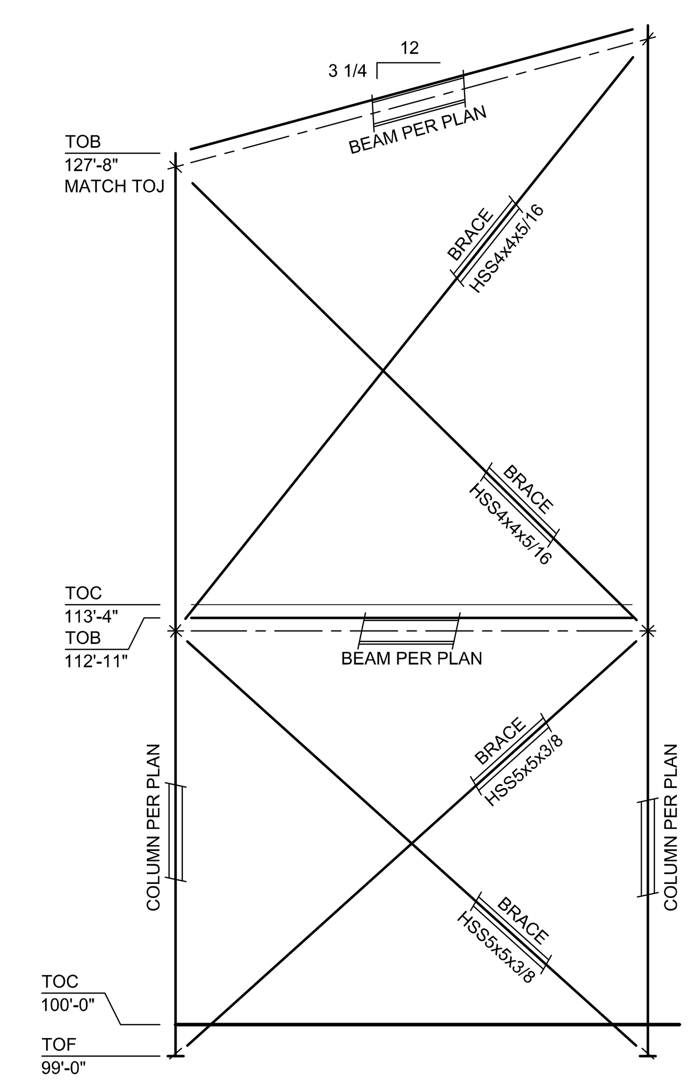
A4 ELEVATION BF6

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



A7 ELEVATION BF7

1/4" = 1'-0" REF: S1.01, S1.11, S1.21



A10 ELEVATION BF8

1/4" = 1'-0" REF: S1.02, S1.12, S1.22

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Kennewick, WA 99336
JOB NO: 9175
P: 509.735.1589
F: 509.783.5075
CAD FILE: 9175 00S211.dwg

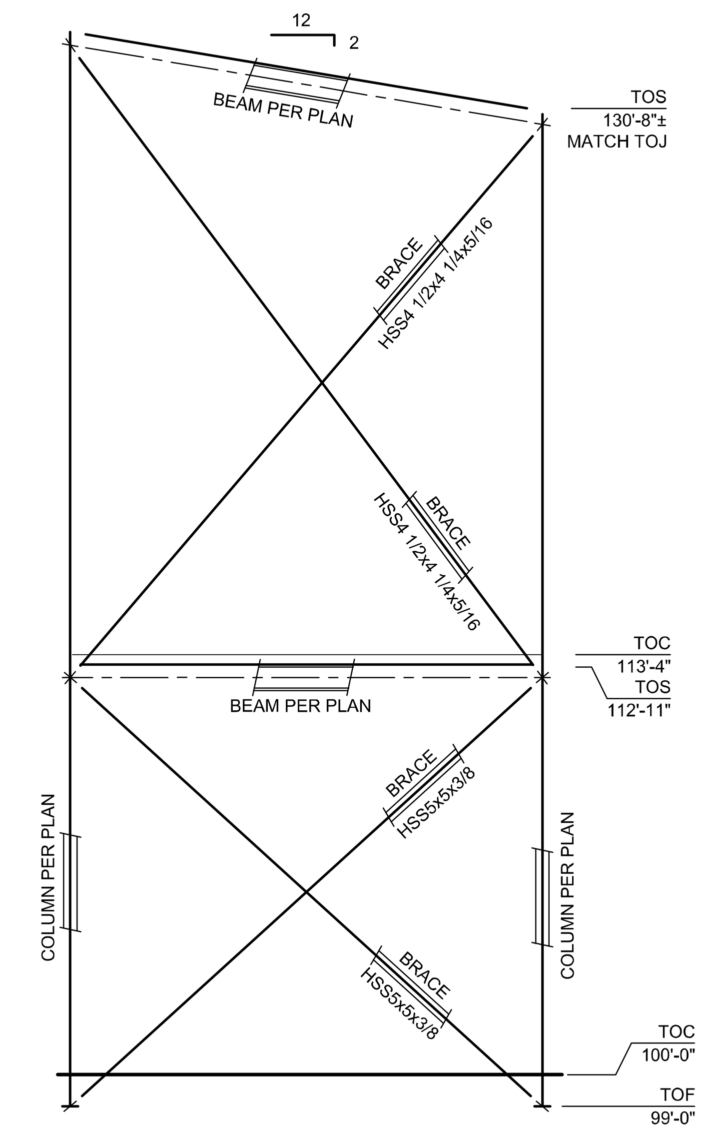
2023.12.18 17:03:51-08'00'

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

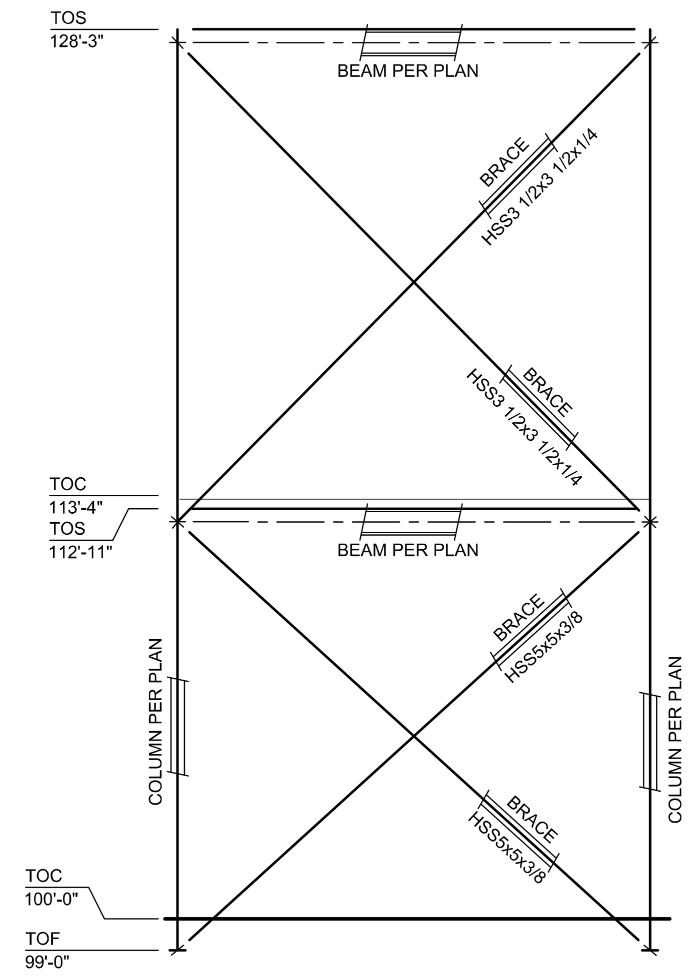
SHEET NAME
BRACE FRAME ELEVATIONS

SHEET
S2.11



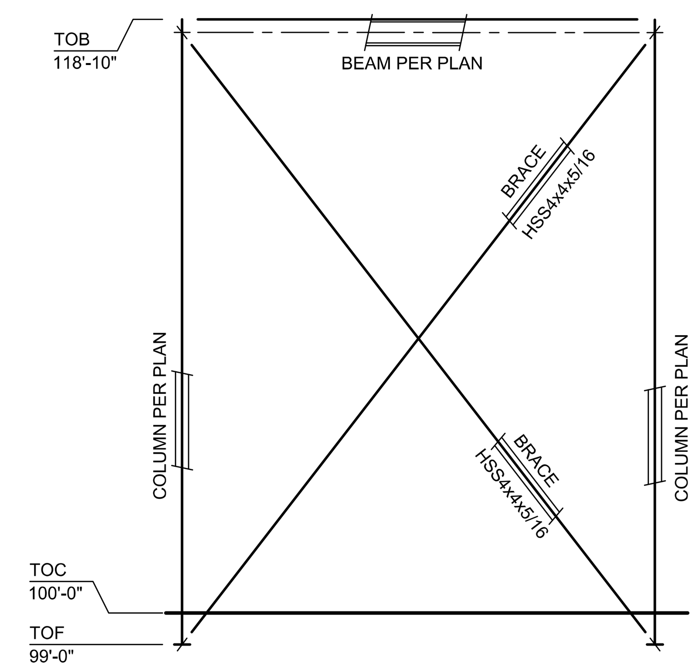
E1 **ELEVATION BF9**

1/4" = 1'-0" REF: S1.02, S1.12



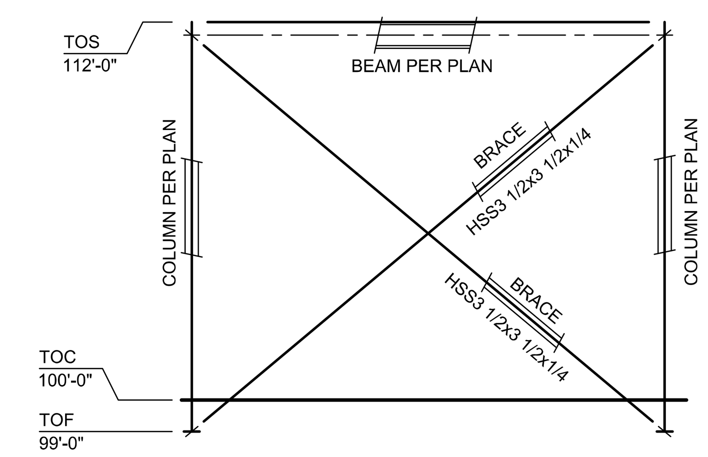
E4 **ELEVATION BF10**

1/4" = 1'-0" REF: S1.01, S1.11



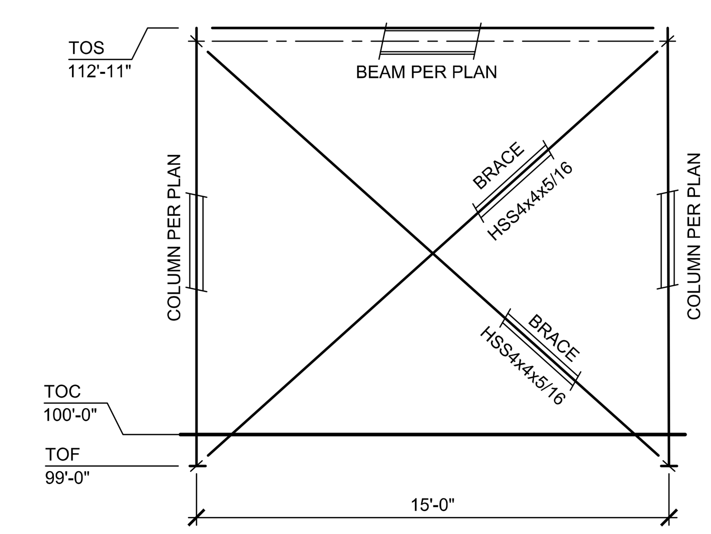
E7 **ELEVATION BF11**

1/4" = 1'-0" REF: S1.01, S1.11



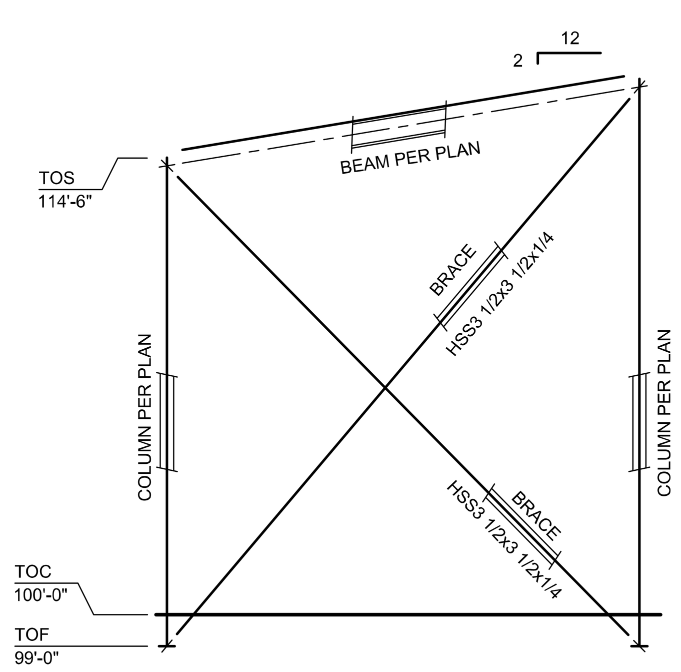
E10 **ELEVATION BF12**

1/4" = 1'-0" REF: S1.01, S1.11



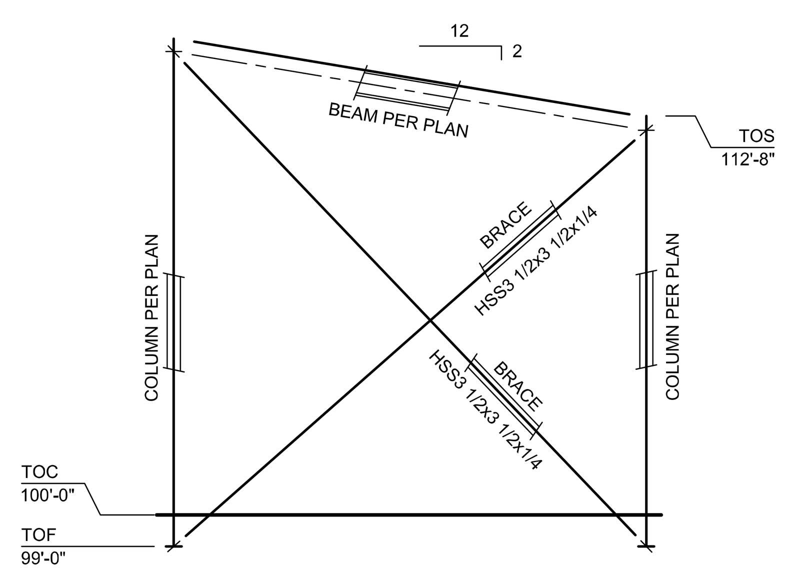
C10 **ELEVATION BF16**

1/4" = 1'-0" REF: S1.01, S1.11



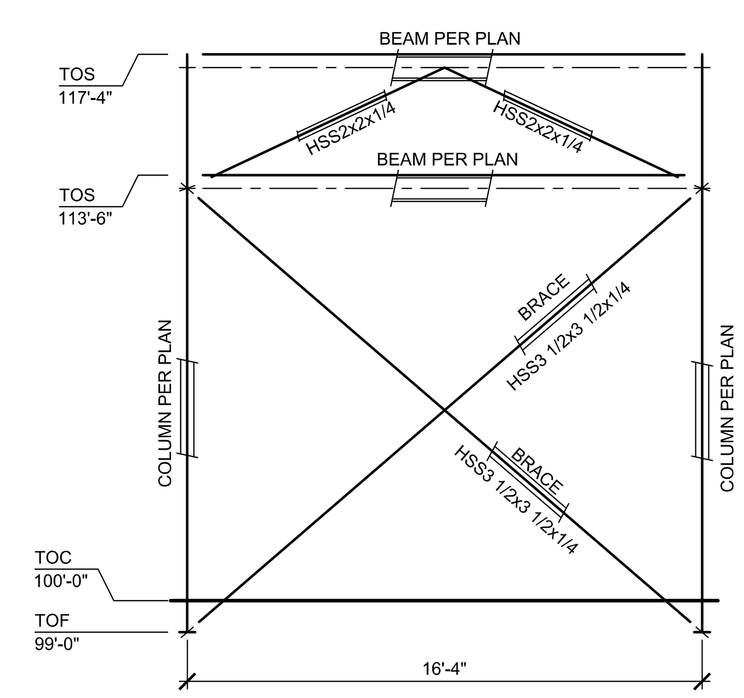
A1 **ELEVATION BF13**

1/4" = 1'-0" REF: S1.01, S1.11



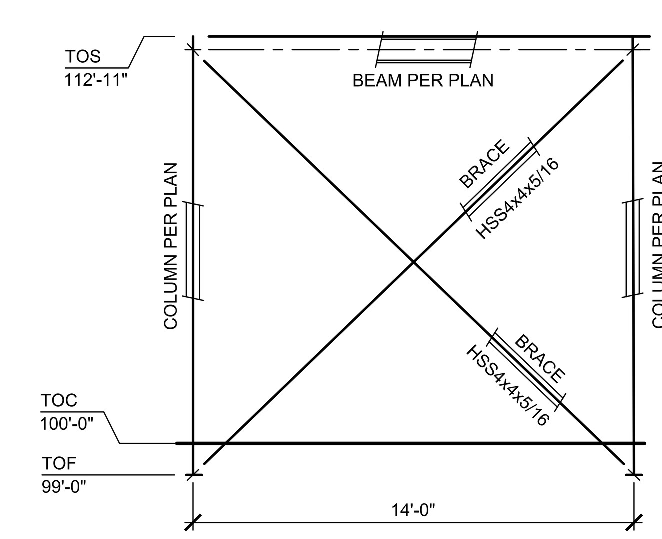
A4 **ELEVATION BF14**

1/4" = 1'-0" REF: S1.01, S1.11



A7 **ELEVATION BF15**

1/4" = 1'-0" REF: S1.01, S1.11



A10 **ELEVATION BF17**

1/4" = 1'-0" REF: S1.01, S1.11

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2023.12.18 17:04:10-08'00'

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL

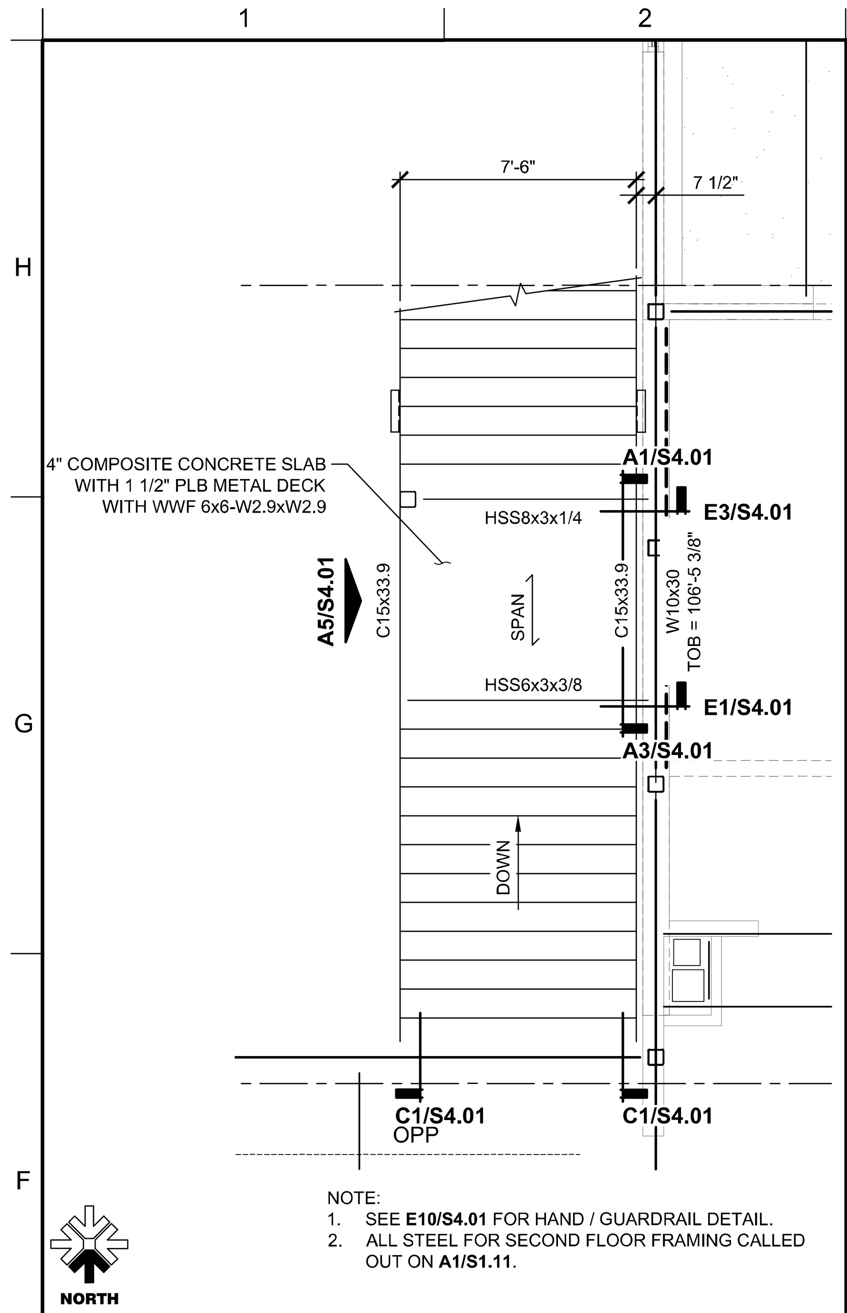
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

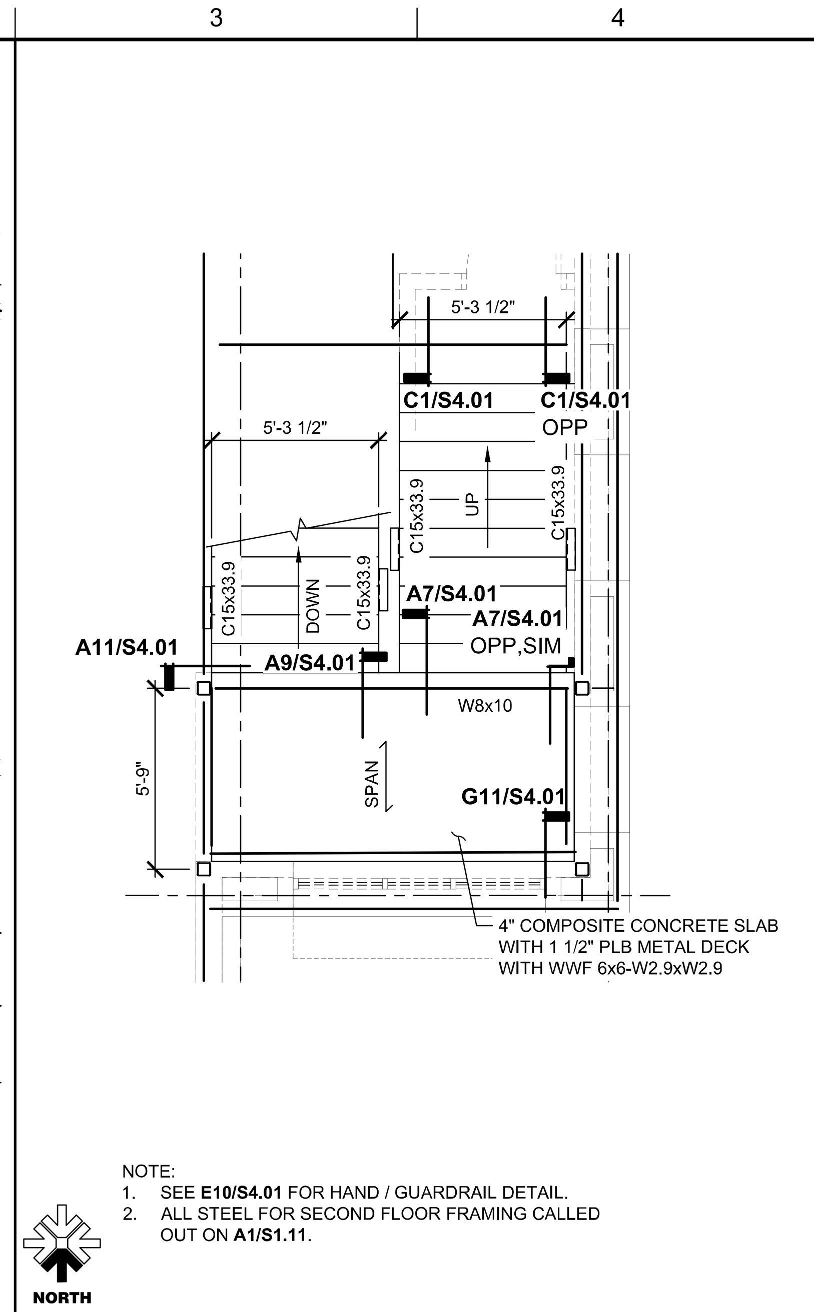
SHEET NAME

BRACE FRAME ELEVATIONS

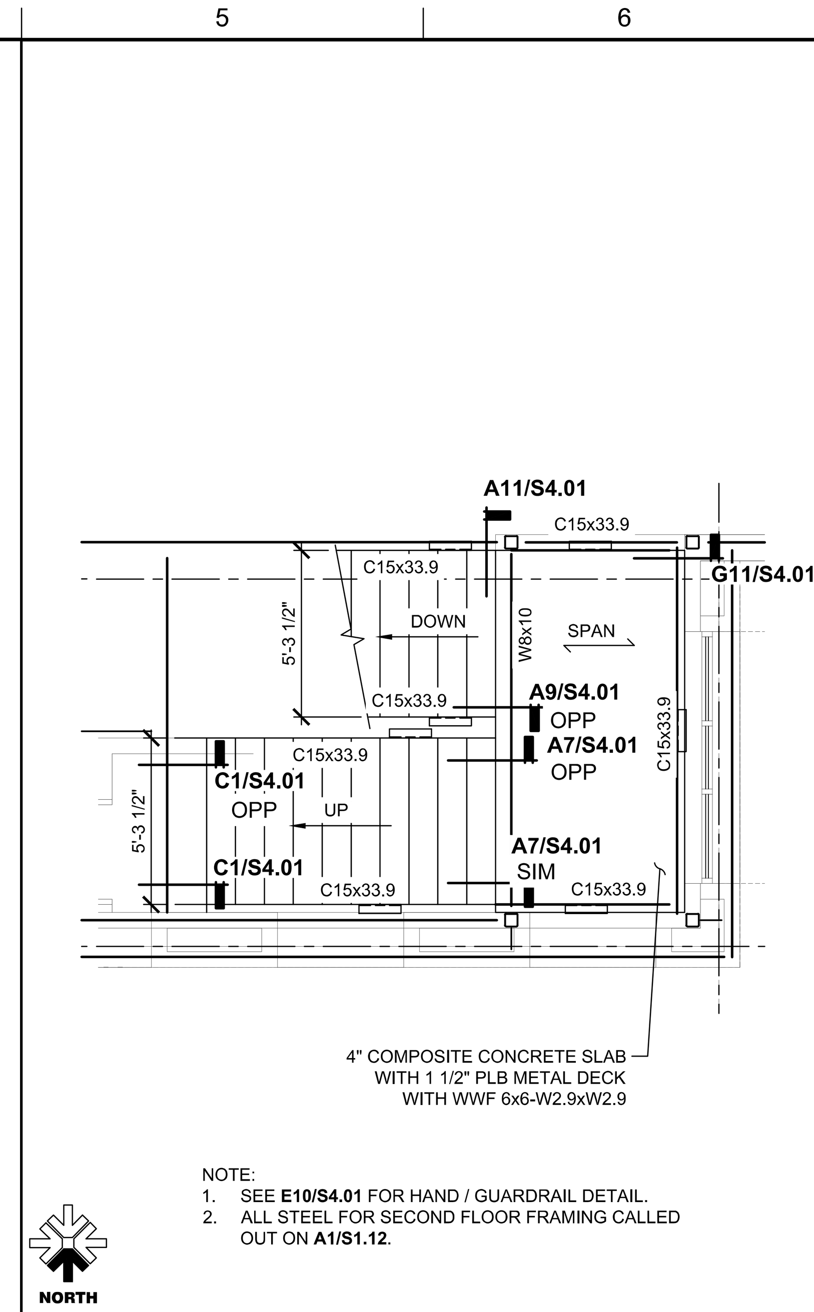
SHEET
S2.12



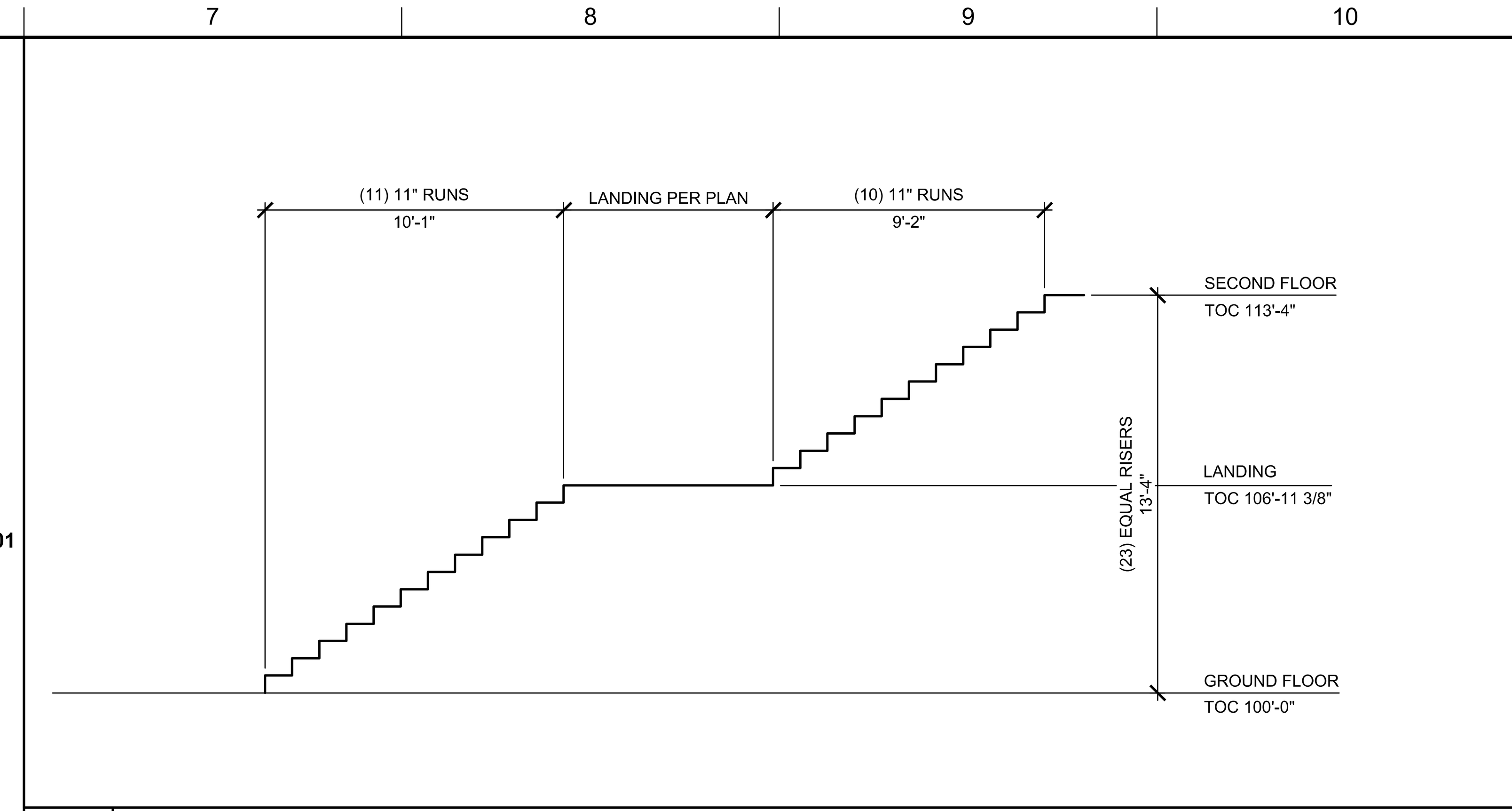
F1 STAIR 1 FRAMING PLAN
1/4" = 1'-0" REF: S1.11



F3 STAIR 2 FRAMING PLAN
1/4" = 1'-0" REF: S1.11



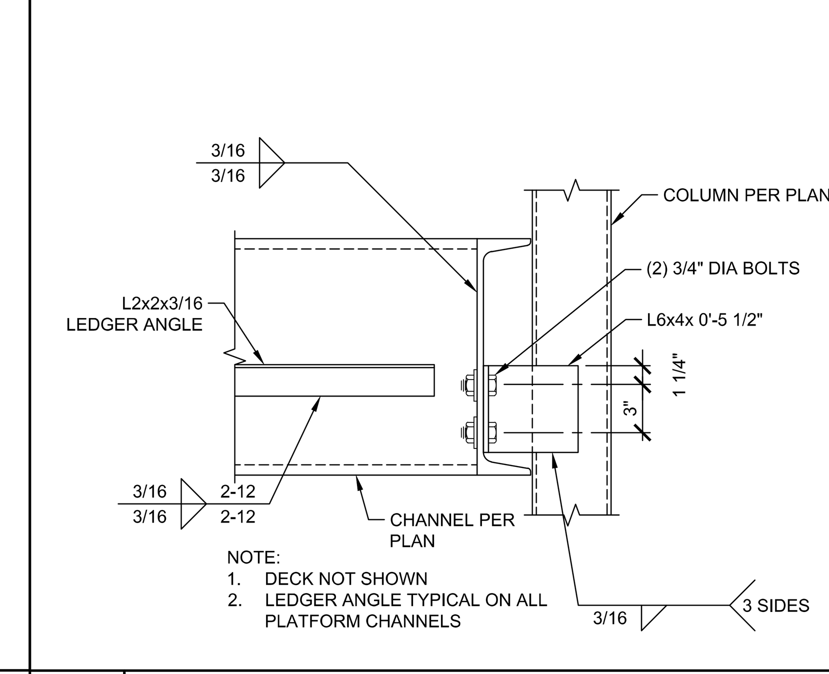
F5 STAIR 3 FRAMING PLAN
1/4" = 1'-0" REF: S1.12



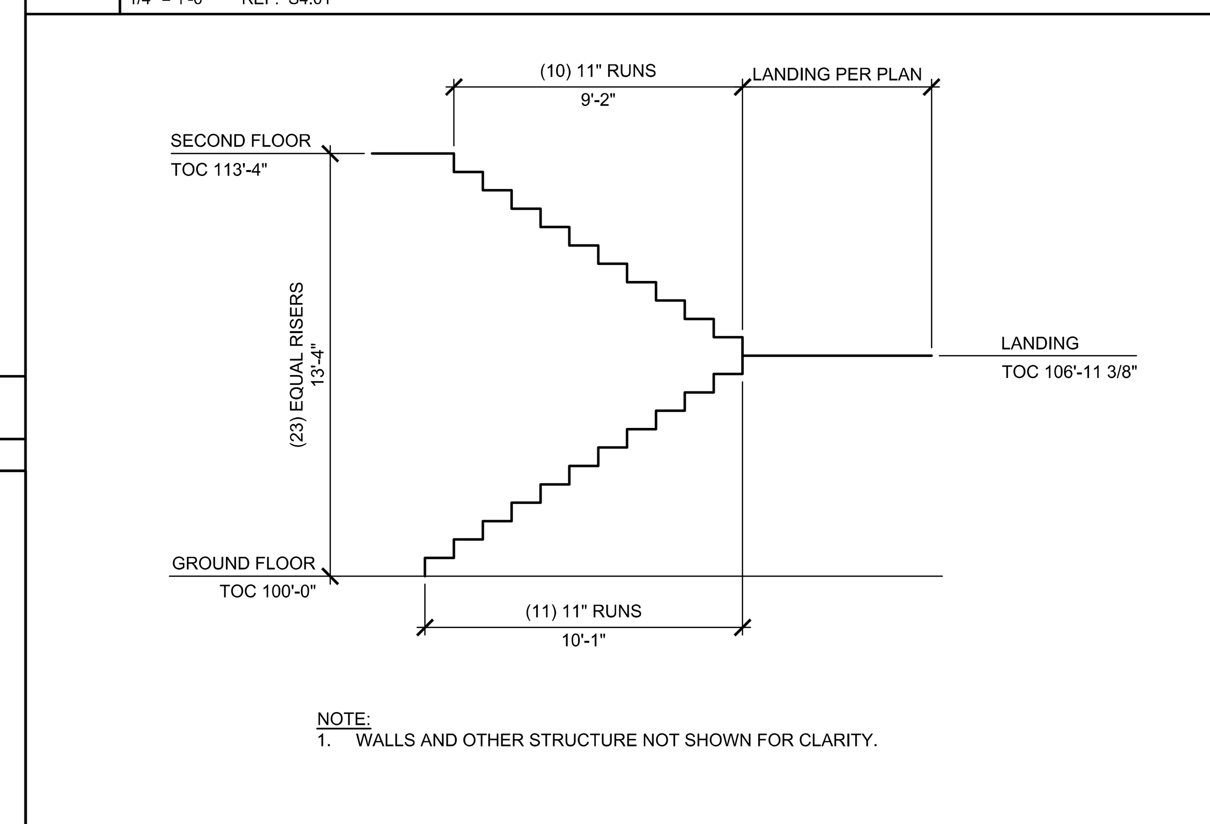
G7 STAIR 1 - ELEVATION PROFILE
1/4" = 1'-0" REF: S4.01

SHEET NOTES

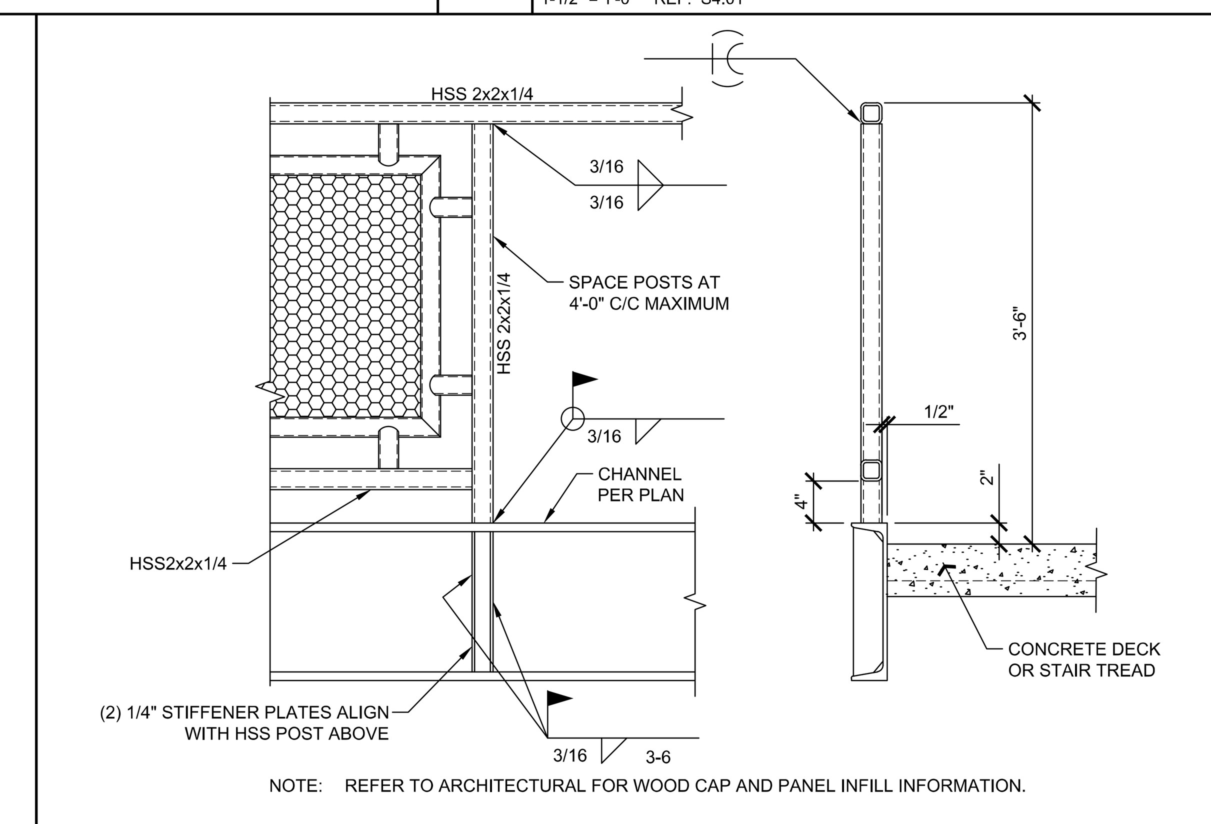
1. SEE S0.01 FOR GENERAL NOTES AND LEGEND.



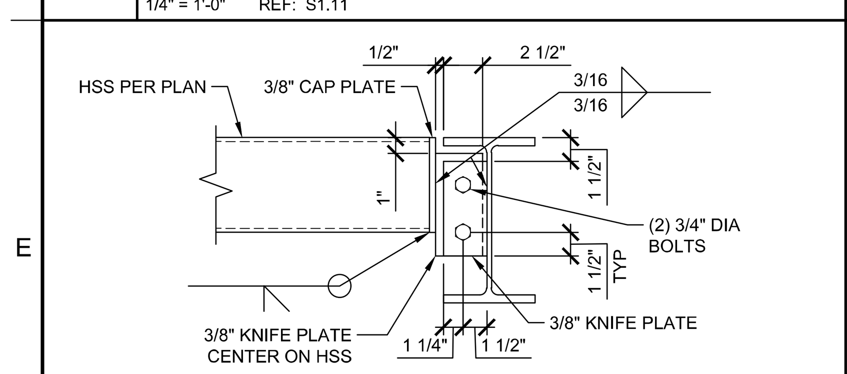
G11 SECTION
1-1/2" = 1'-0" REF: S4.01



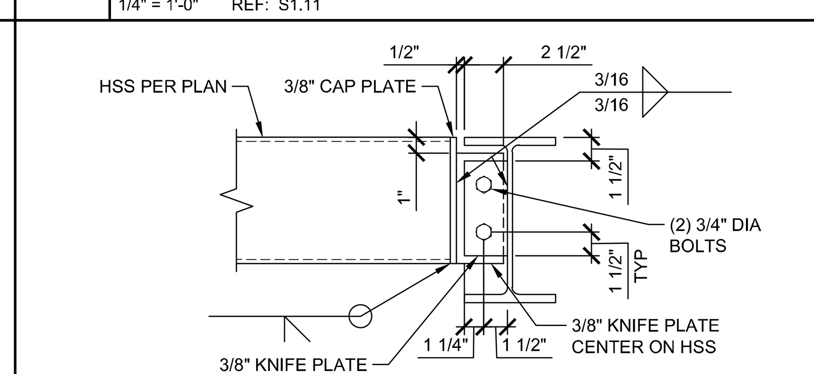
E7 STAIR 2 & 3 - ELEVATION PROFILE
1/4" = 1'-0" REF: S4.01



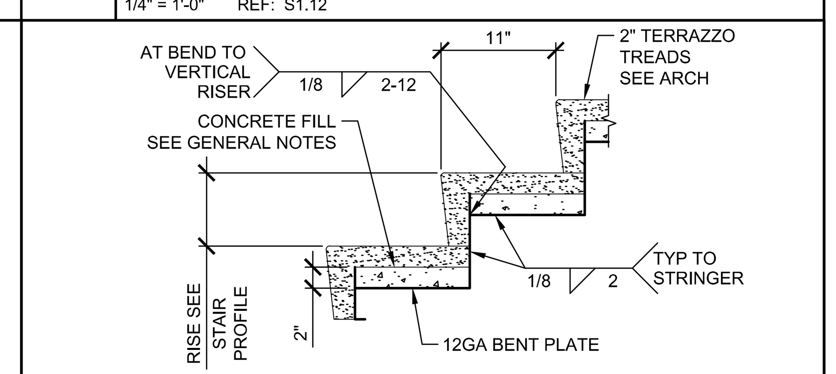
E10 SECTION
1" = 1'-0" REF: S1.11, S1.12, S4.01, S5.13



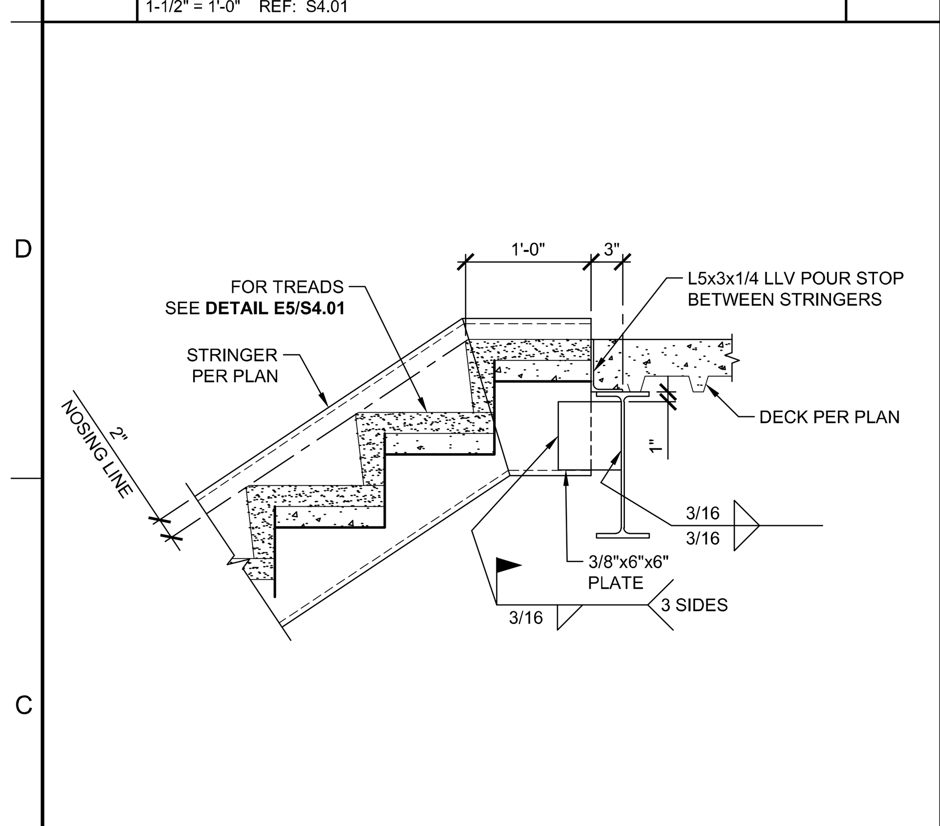
E1 SECTION
1-1/2" = 1'-0" REF: S4.01



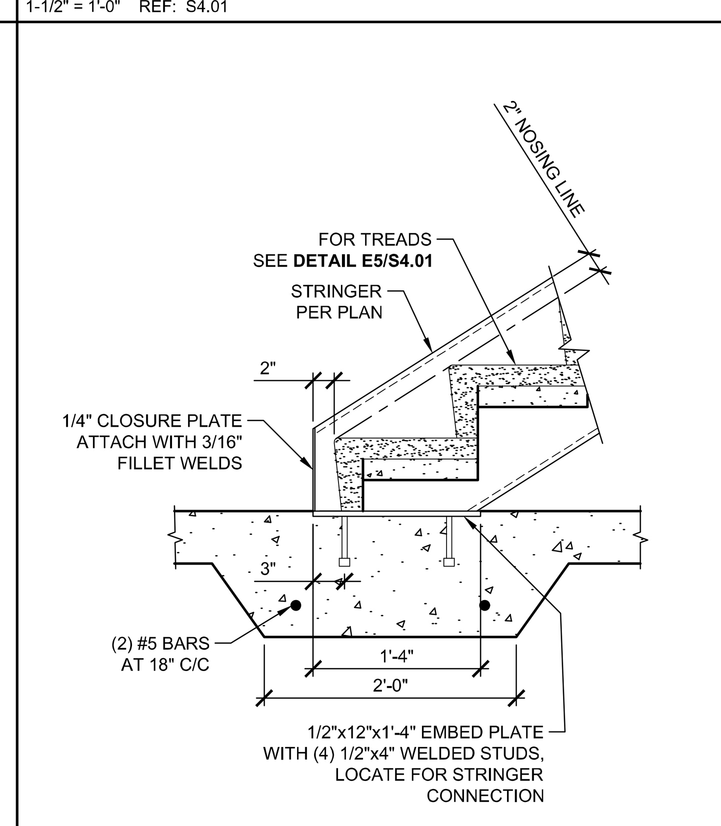
E3 SECTION
1-1/2" = 1'-0" REF: S4.01



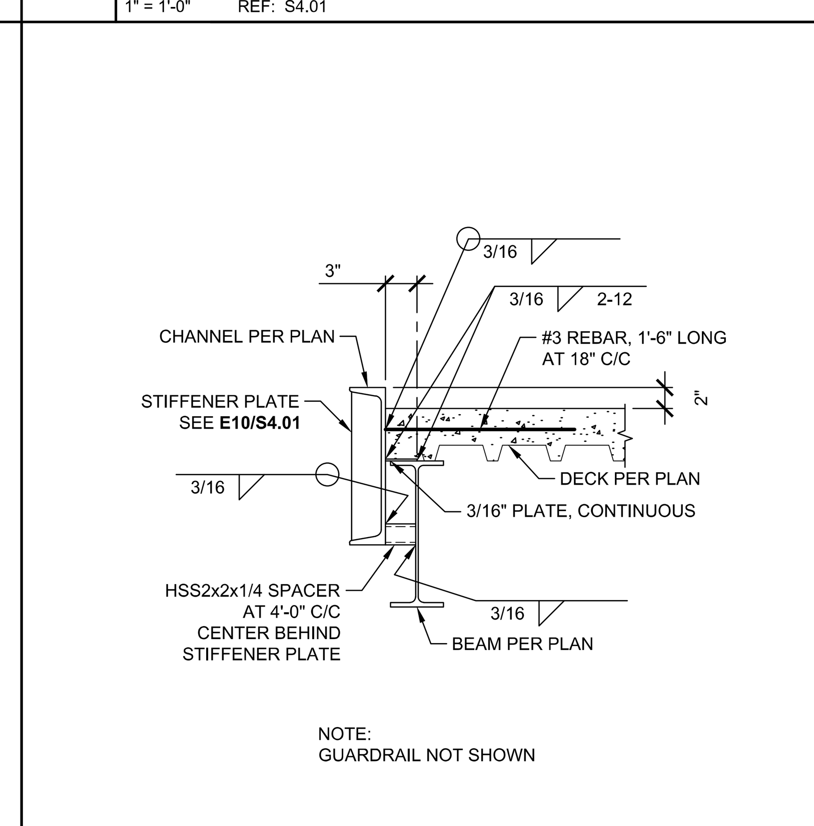
E5 SECTION
1" = 1'-0" REF: S4.01



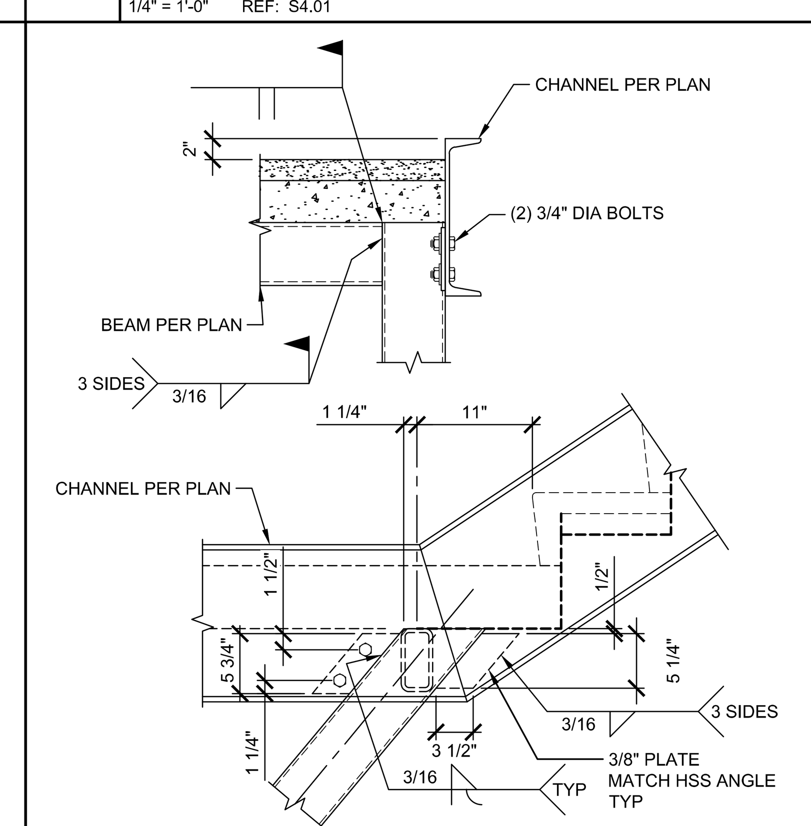
C1 SECTION
1" = 1'-0" REF: S4.01



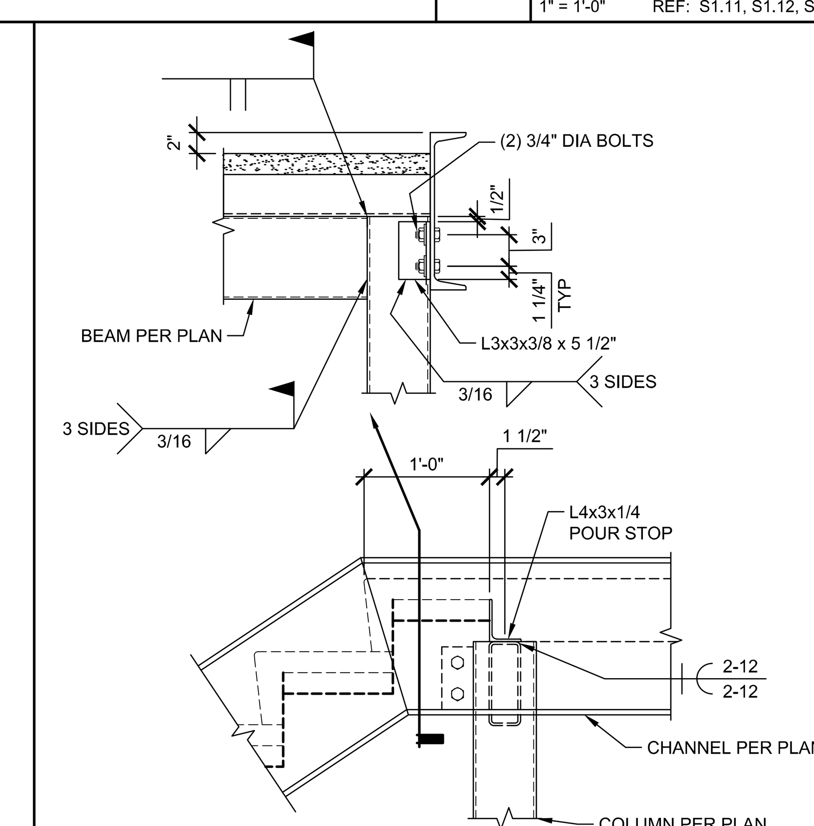
C3 SECTION
1" = 1'-0" REF: S1.01, S1.02



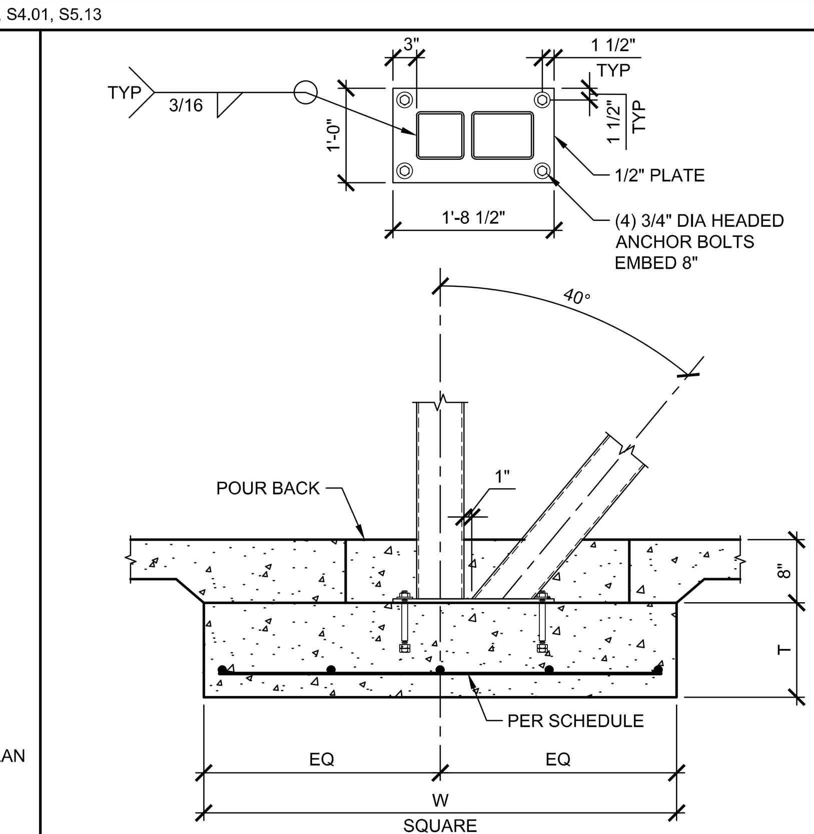
C5 SECTION
1" = 1'-0" REF: S1.11, S1.12



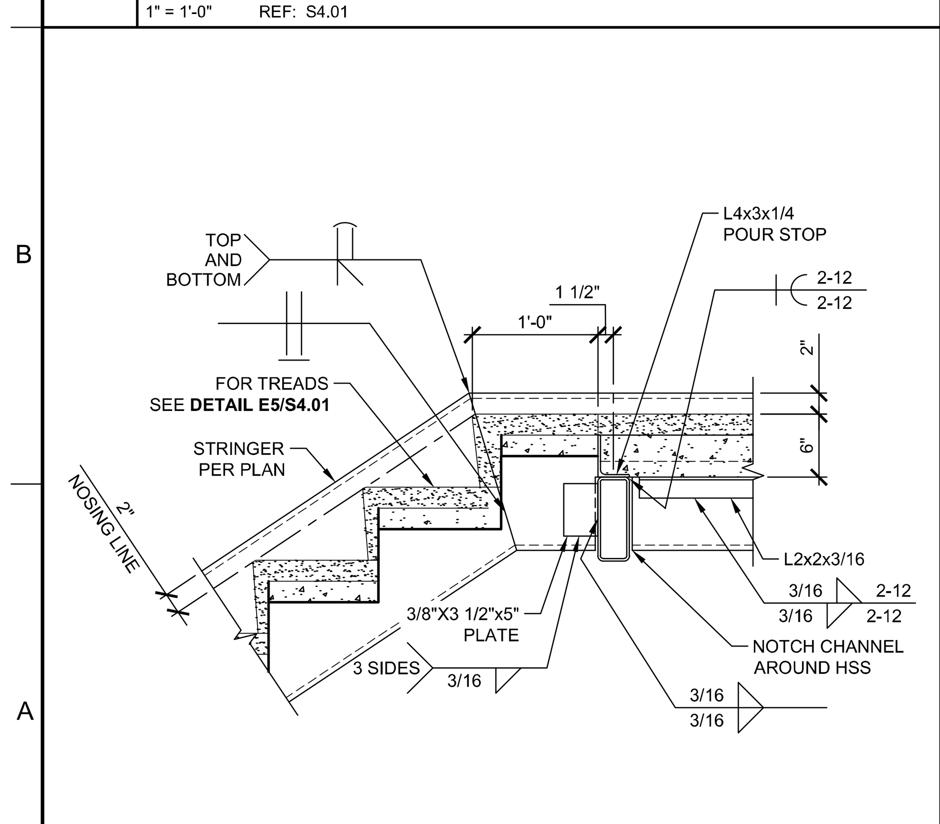
C7 SECTION
1" = 1'-0" REF: S4.01



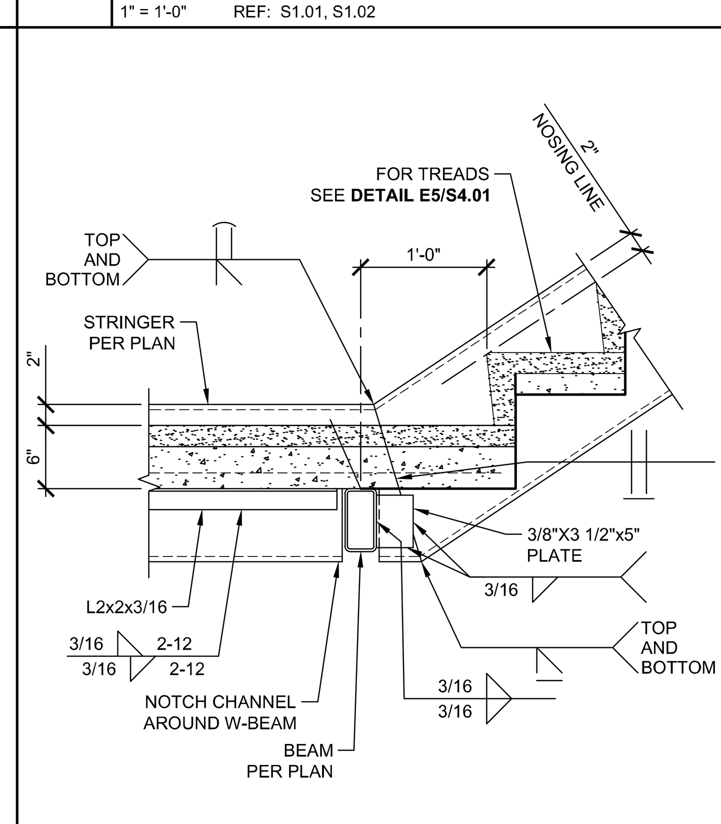
C9 SECTION
1" = 1'-0" REF: S4.01



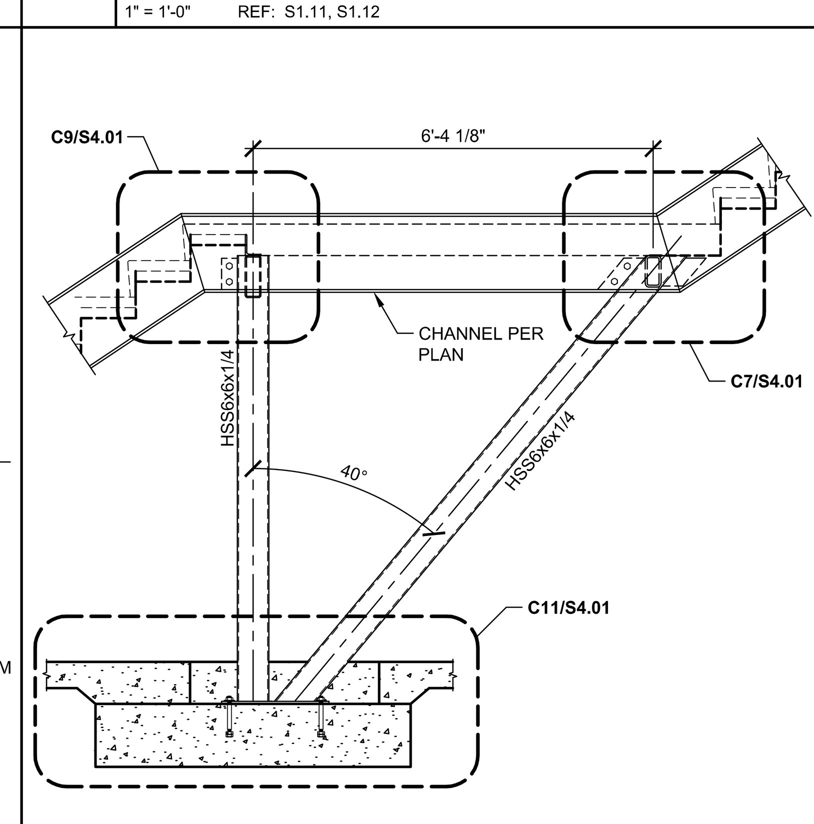
C11 SECTION
3/4" = 1'-0" REF: S4.01, S6.03



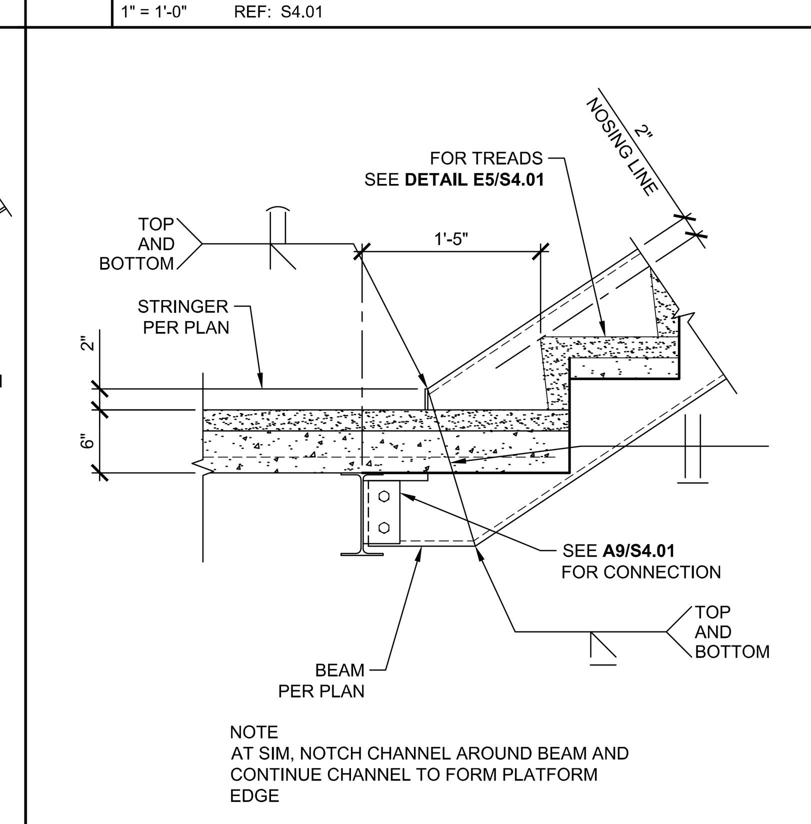
A1 SECTION
1" = 1'-0" REF: S4.01



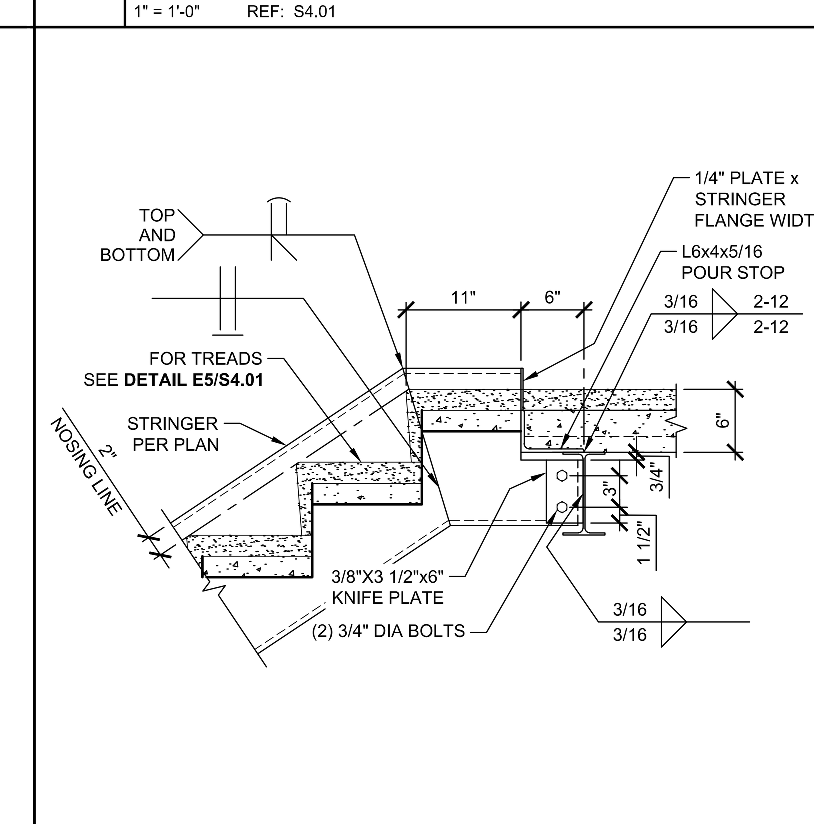
A3 SECTION
1" = 1'-0" REF: S4.01



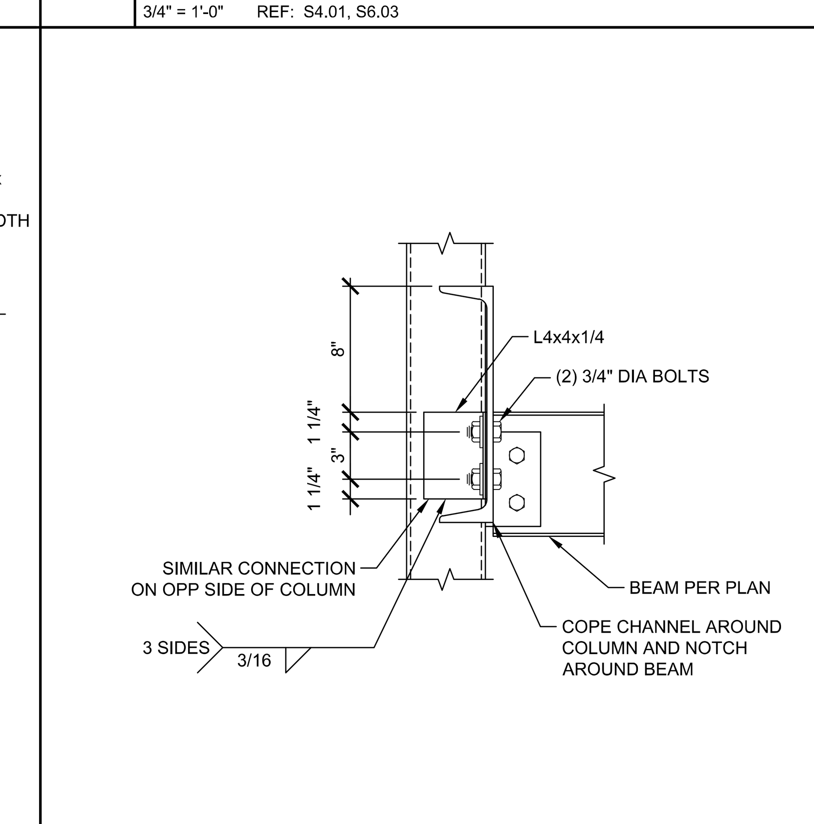
A5 SECTION
1/2" = 1'-0" REF: S4.01



A7 SECTION
1" = 1'-0" REF: S4.01



A9 SECTION
1" = 1'-0" REF: S4.01



A11 SECTION
1-1/2" = 1'-0" REF: S4.01

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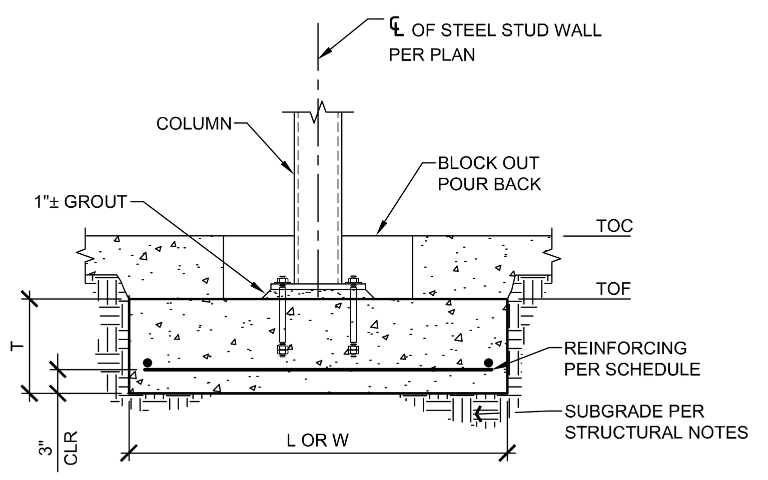
2023.12.18 17:04:28-08'00'

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023

SHEET NAME: **STAIR FRAMING PLANS AND DETAILS**

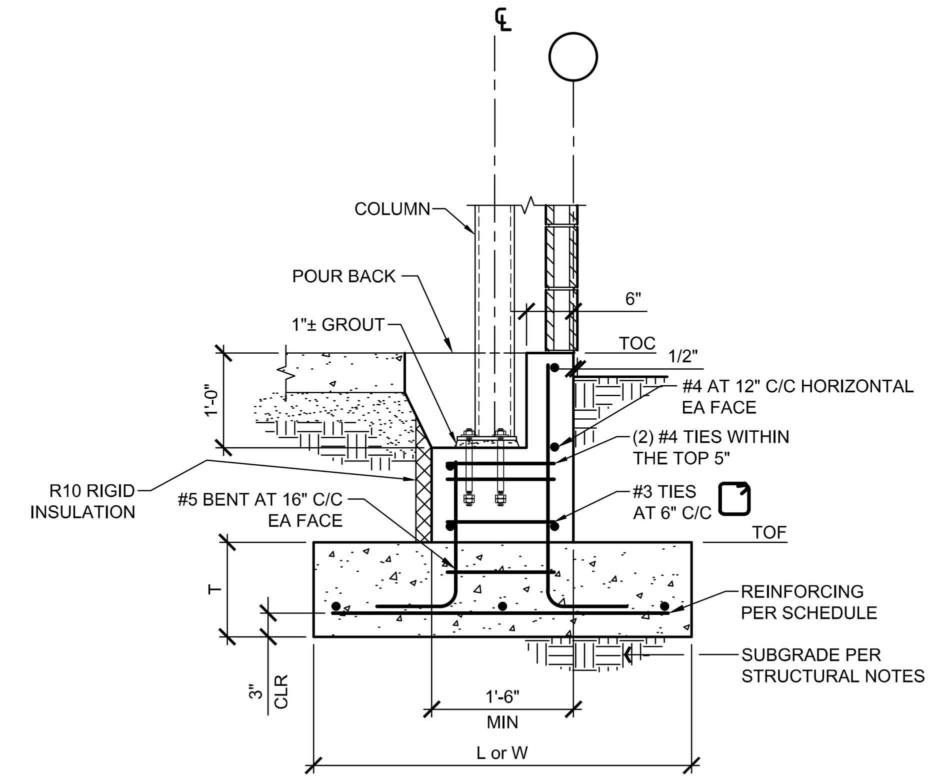
SHEET: **S4.01**



G1 SECTION
3/4" = 1'-0" REF: S6.03

NOT USED

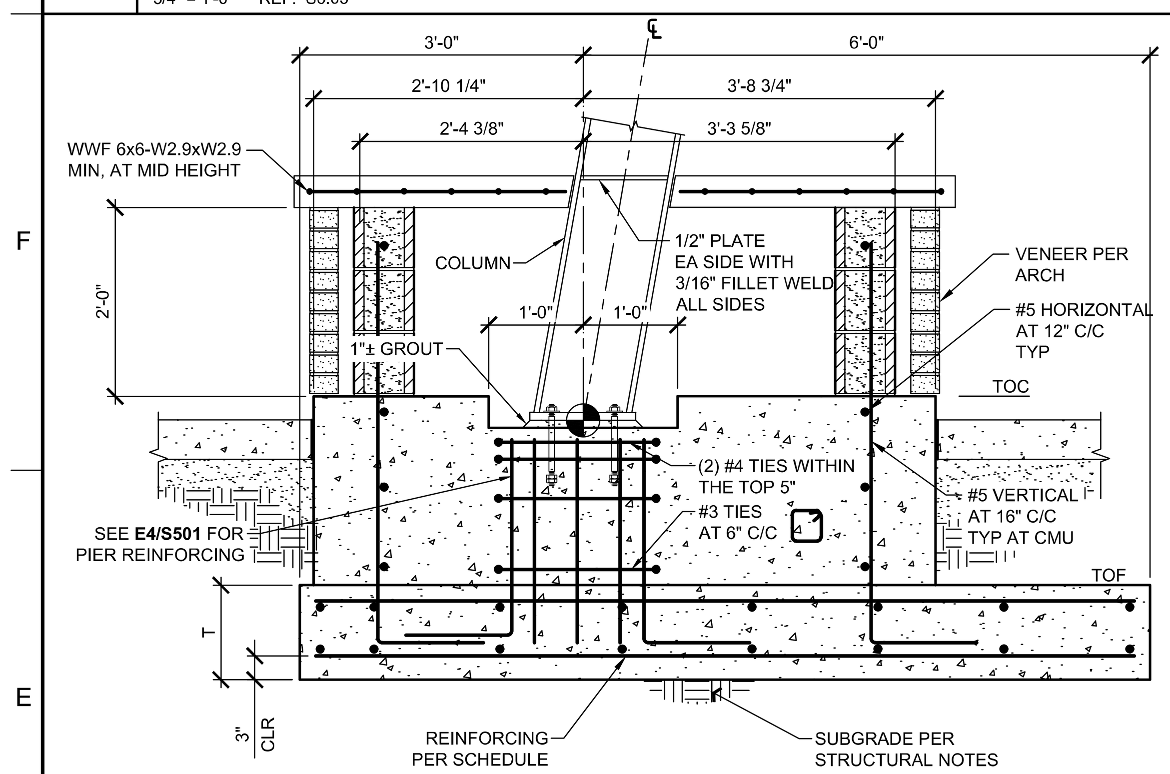
G4 DETAIL
3/4" = 1'-0" REF: S1.01, S1.02



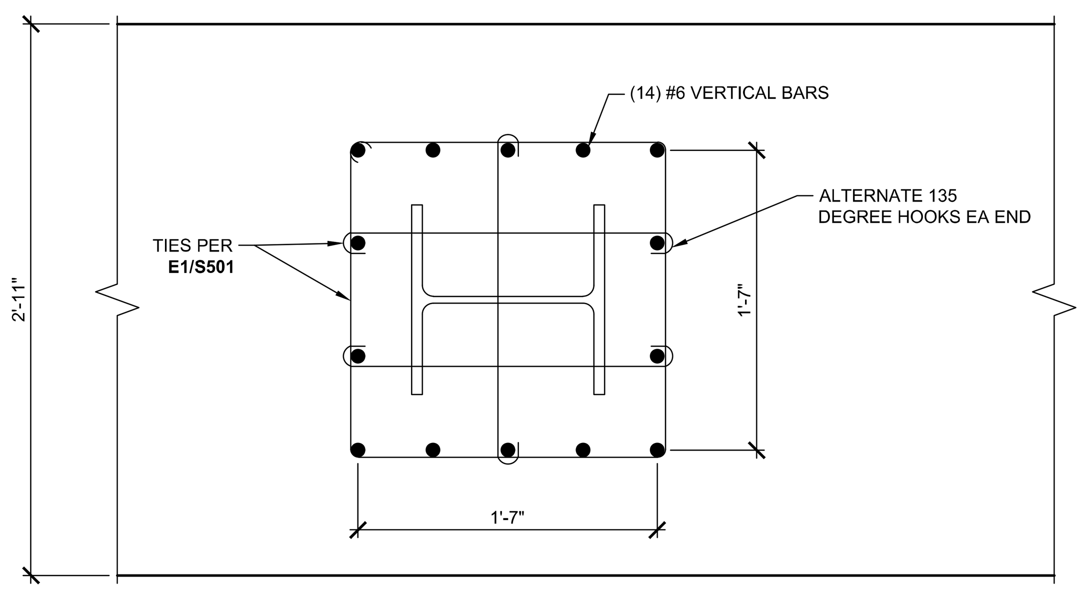
G7 SECTION
3/4" = 1'-0" REF: S6.03

NOT USED

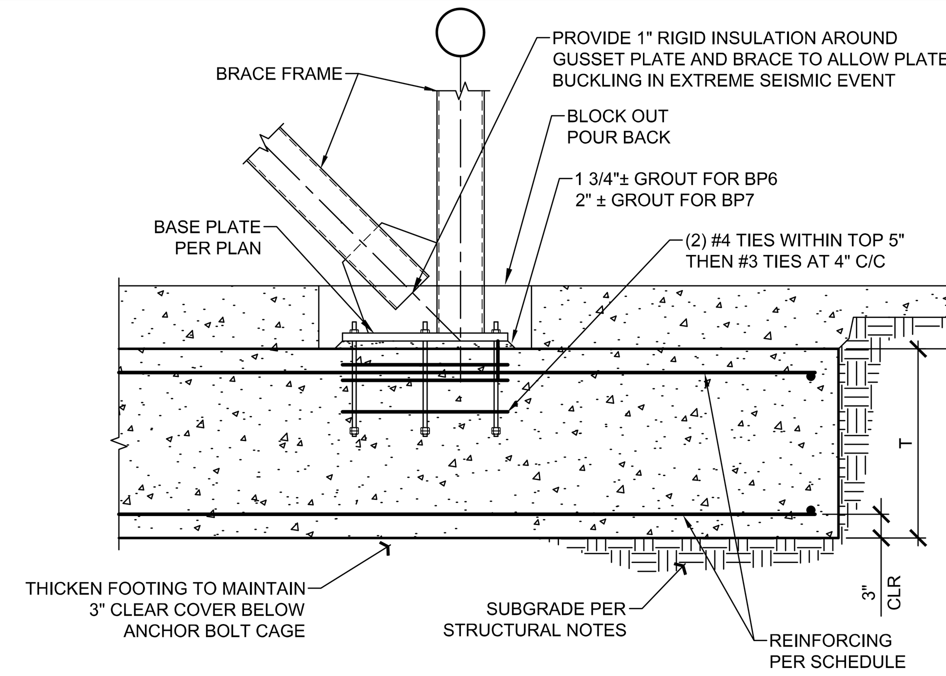
G10 DETAIL
3/4" = 1'-0" REF: S6.03



E1 SECTION
3/4" = 1'-0" REF: S6.03



E4 DETAIL
1-1/2" = 1'-0" REF: S5.01

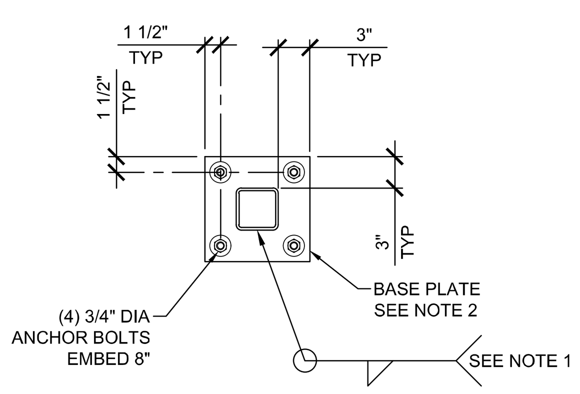


NOTE:
1. IF BOLT HOLES OVER DIA +1/16 ARE PROVIDED PER AISC TABLE 14-2, PROVIDE SQUARE PLATE WASHER PER TABLE WELDED ON TWO (2) OPPOSITE SIDES TO BASE PLATE WITH 1/4" FILLET WELD FULL LENGTH OF WASHER.
2. THIS CONNECTION IS PART OF THE MFRS. STRUCTURAL STEEL, FOOTING, AND REINFORCING TO BE INSPECTED FOR MFRS REQUIREMENTS.

E7 SECTION
3/4" = 1'-0" REF: S6.03

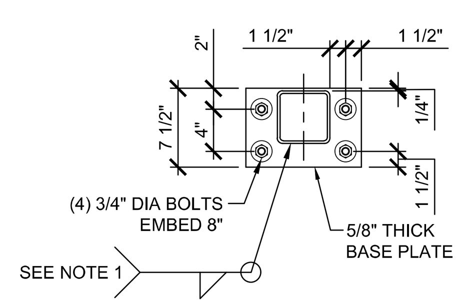
NOT USED

E10 DETAIL
3/4" = 1'-0" REF:



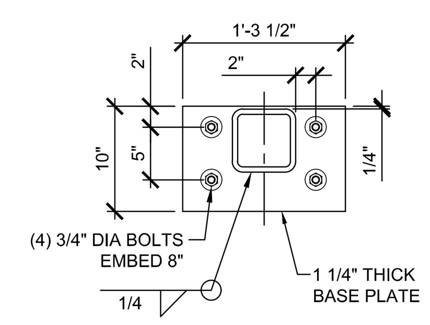
NOTE:
1. 1/4" FILLET WELD FOR COLUMNS WITH WALL THICKNESS GREATER THAN 1/4". 3/16" FILLET WELD FOR ALL OTHER COLUMNS.
2. BP1 BASE PLATE THICKNESS SHALL BE 5/8". BP2 BASE PLATE THICKNESS SHALL BE 1".

C1 BP1 & BP2
1" = 1'-0" REF: S1.01, S1.02

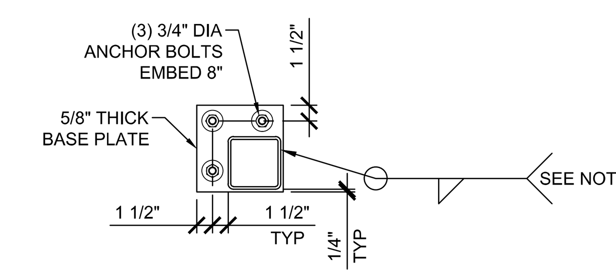


NOTE:
1. 1/4" FILLET WELD FOR COLUMNS WITH WALL THICKNESS GREATER THAN 1/4". 3/16" FILLET WELD FOR ALL OTHER COLUMNS.

C4 BP3 & BP4
1" = 1'-0" REF: S1.01, S1.02

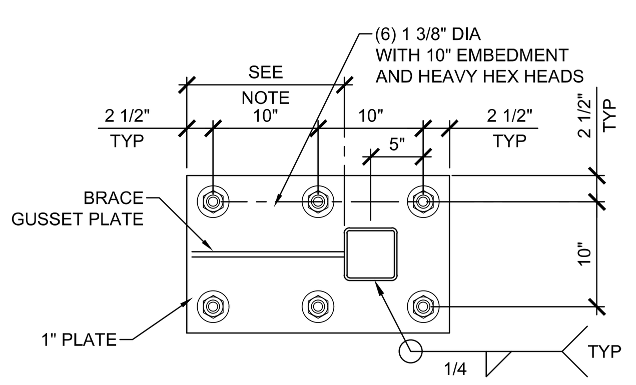


C7 BP4
1" = 1'-0" REF: S1.01



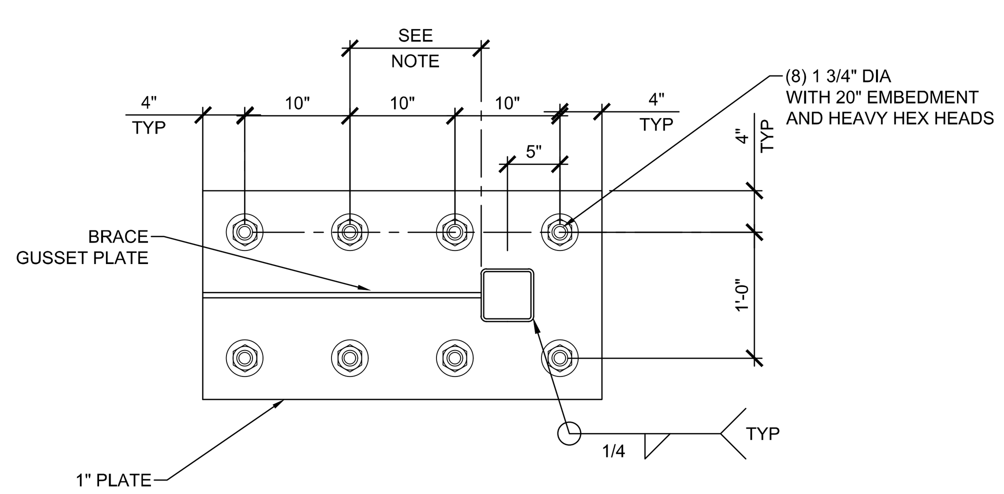
NOTE:
1/4" FILLET WELD FOR COLUMNS WITH WALL THICKNESS GREATER THAN 1/4". 3/16" FILLET WELD FOR ALL OTHER COLUMNS.

C10 BP5
1" = 1'-0" REF: S1.01, S1.02



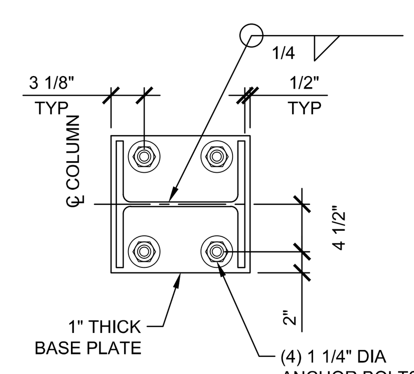
NOTE:
1. BASE PLATE DIMENSION SHALL ACCOMMODATE BRACE CONNECTOR PLATE LENGTH.
2. SEE E7/S5.11 FOR CONNECTION OF GUSSET TO COLUMN AND BASE PLATE.
3. THIS BASE PLATE IS PART OF THE MFRS.

A1 BP6
1" = 1'-0" REF: S1.01, S1.02



NOTE:
1. BASE PLATE DIMENSION SHALL ACCOMMODATE BRACE CONNECTOR PLATE LENGTH.
2. SEE E7/S5.11 FOR CONNECTION OF GUSSET TO COLUMN AND BASE PLATE.
3. THIS BASE PLATE IS PART OF THE MFRS.

A4 BP7
1" = 1'-0" REF: S1.01, S1.02



A7 DETAIL
1" = 1'-0" REF: S1.01

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CAD FILE: 9175S0S501.dwg

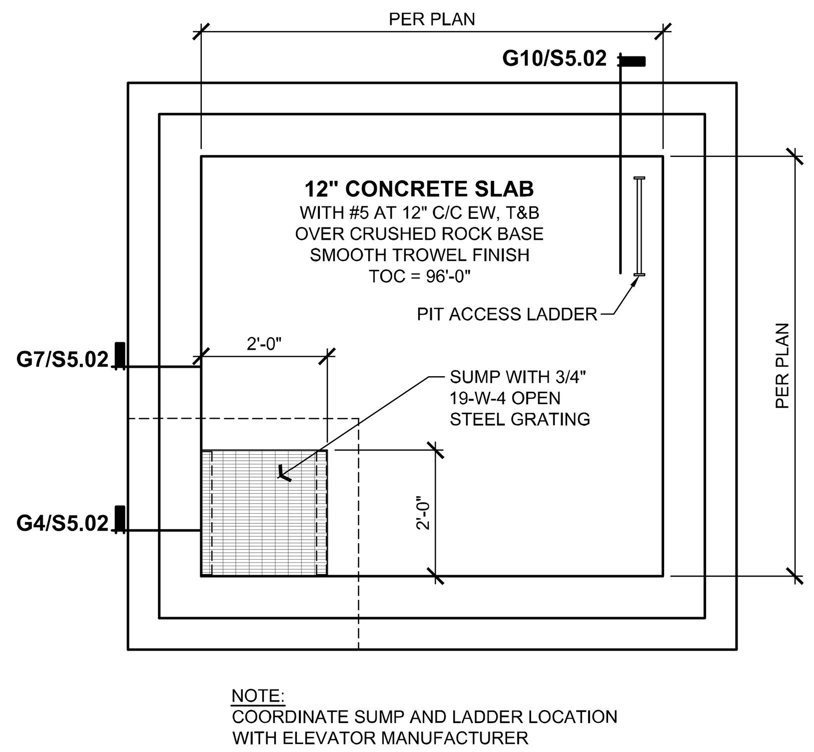
2023.12.18 17:04:44-08'00'

PASCO SCHOOL DISTRICT ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

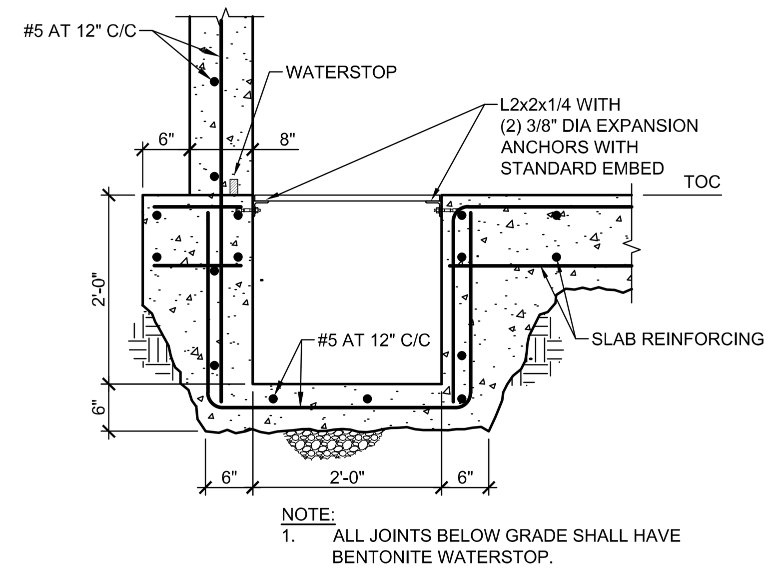
DATE 12/18/2023

SHEET NAME
SECTIONS AND DETAILS

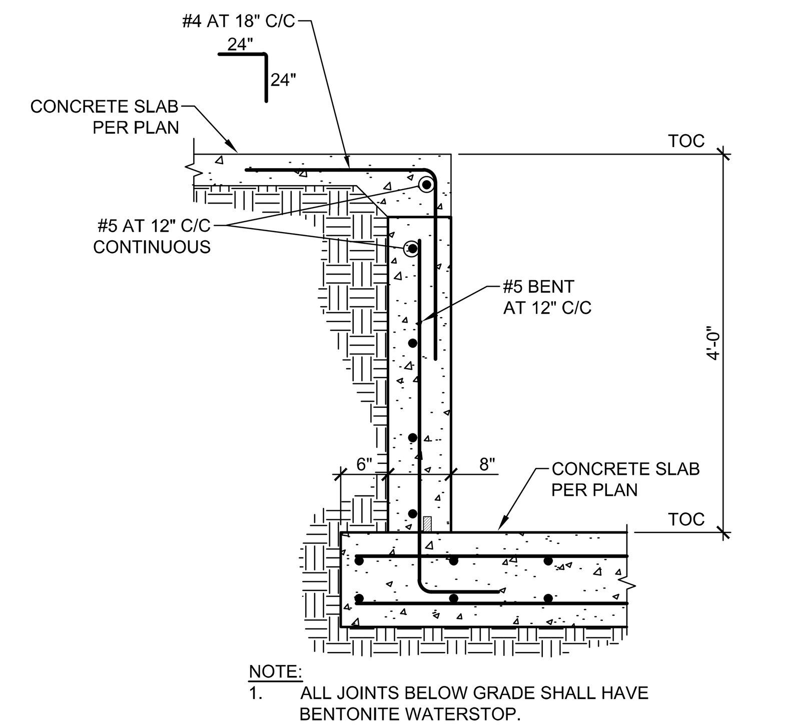
SHEET
S5.01



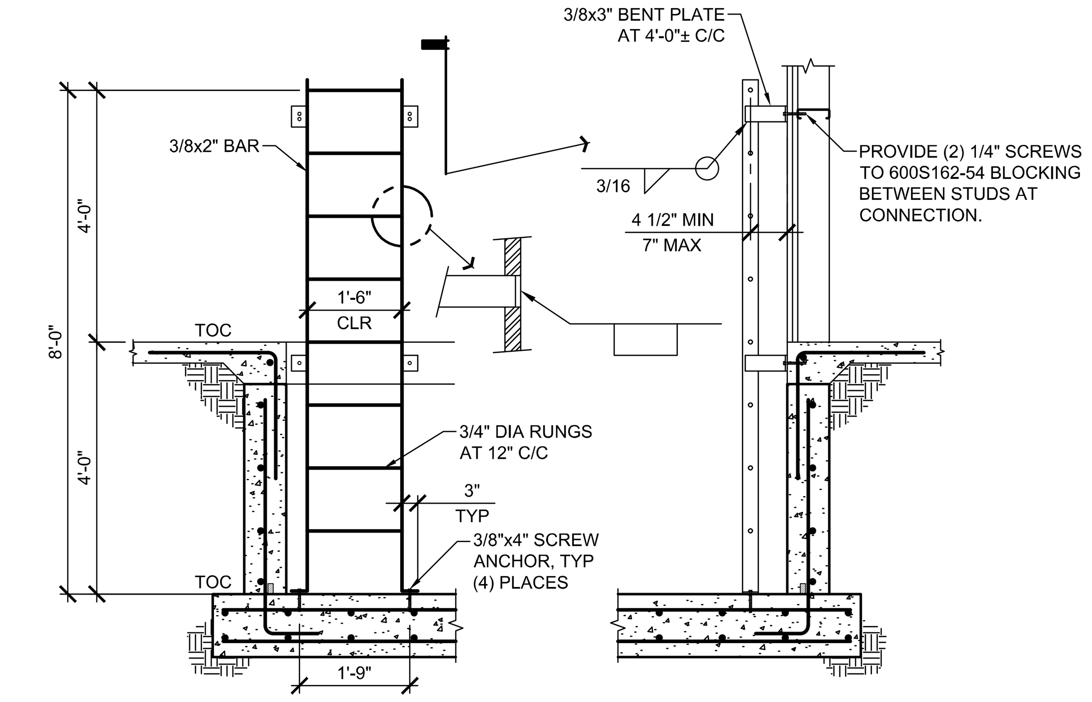
G1 DETAIL
1/2" = 1'-0" REF: S1.02



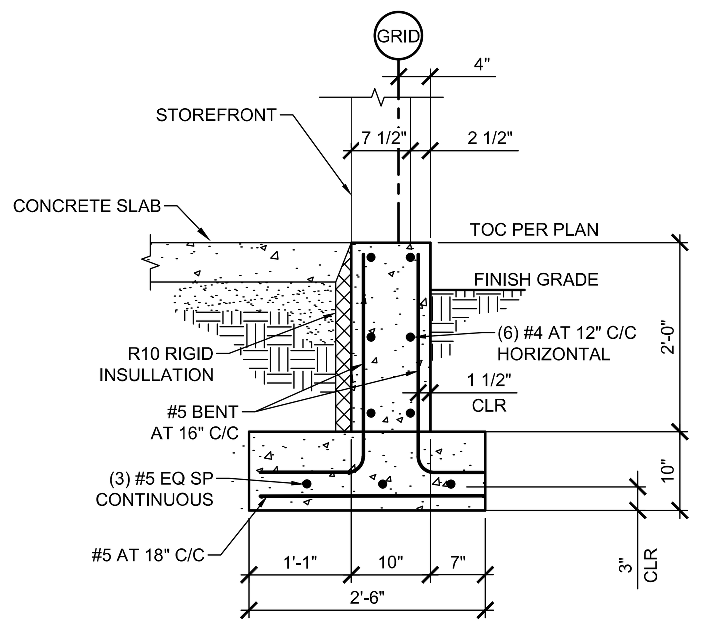
G4 SECTION
3/4" = 1'-0" REF: S5.02



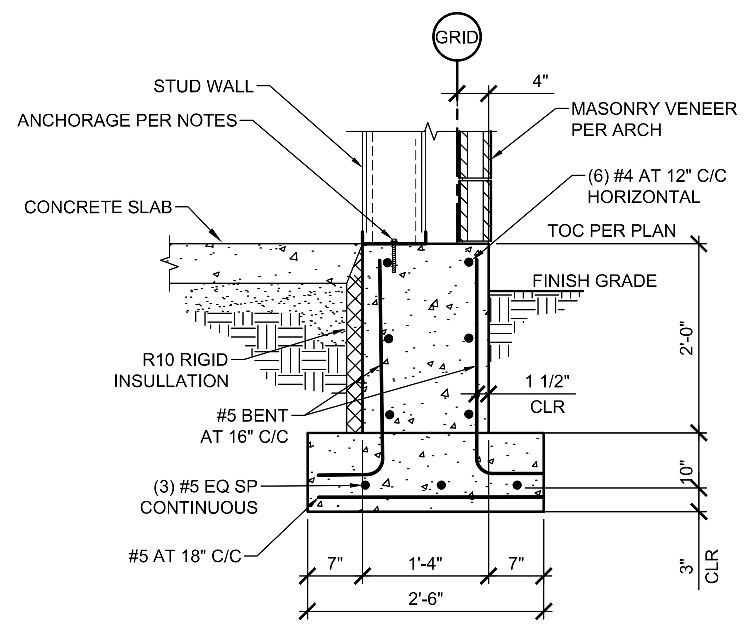
G7 SECTION
3/4" = 1'-0" REF: S5.02



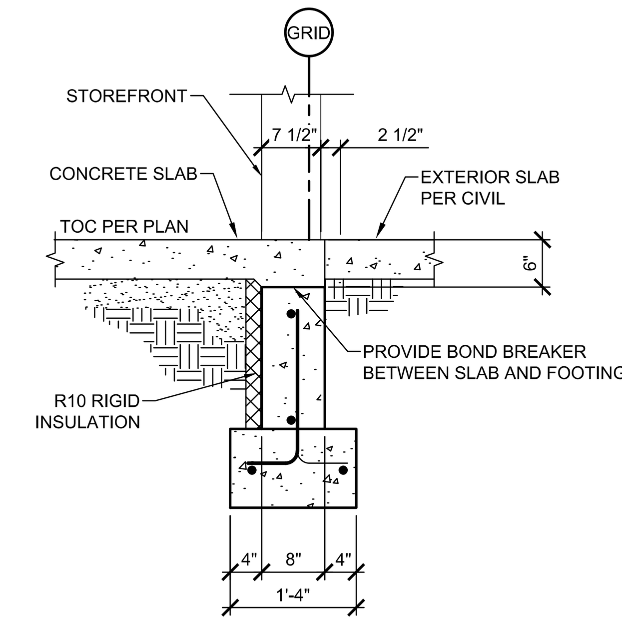
G10 SECTION
1/2" = 1'-0" REF: S5.02



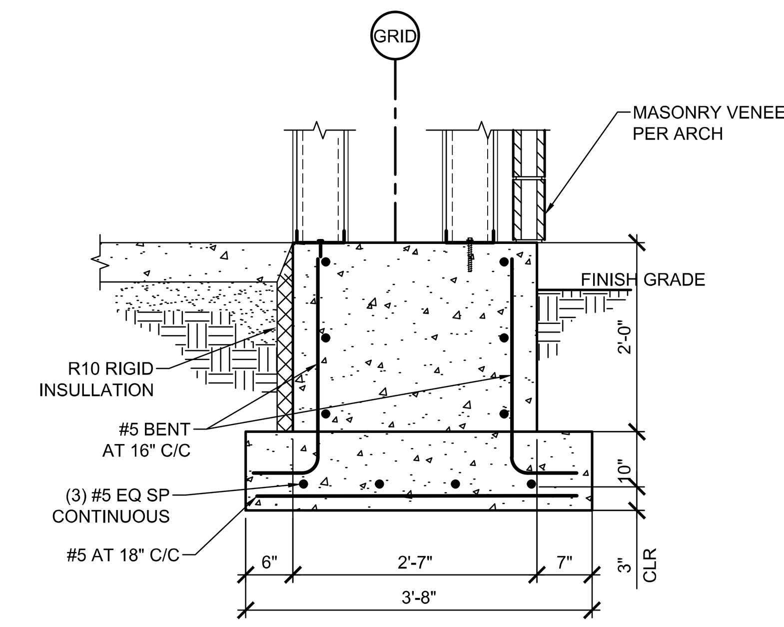
E1 SECTION
3/4" = 1'-0" REF: S1.01



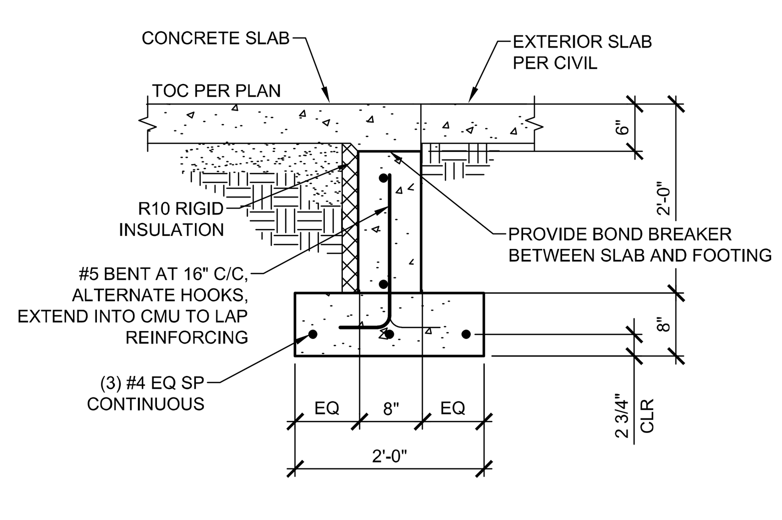
E4 SECTION
3/4" = 1'-0" REF: S1.01



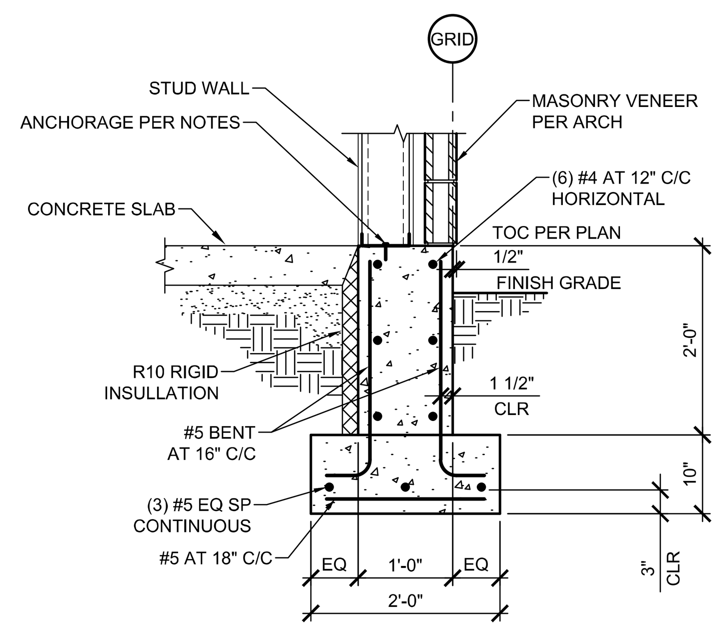
E7 SECTION
3/4" = 1'-0" REF: S1.01, S1.02



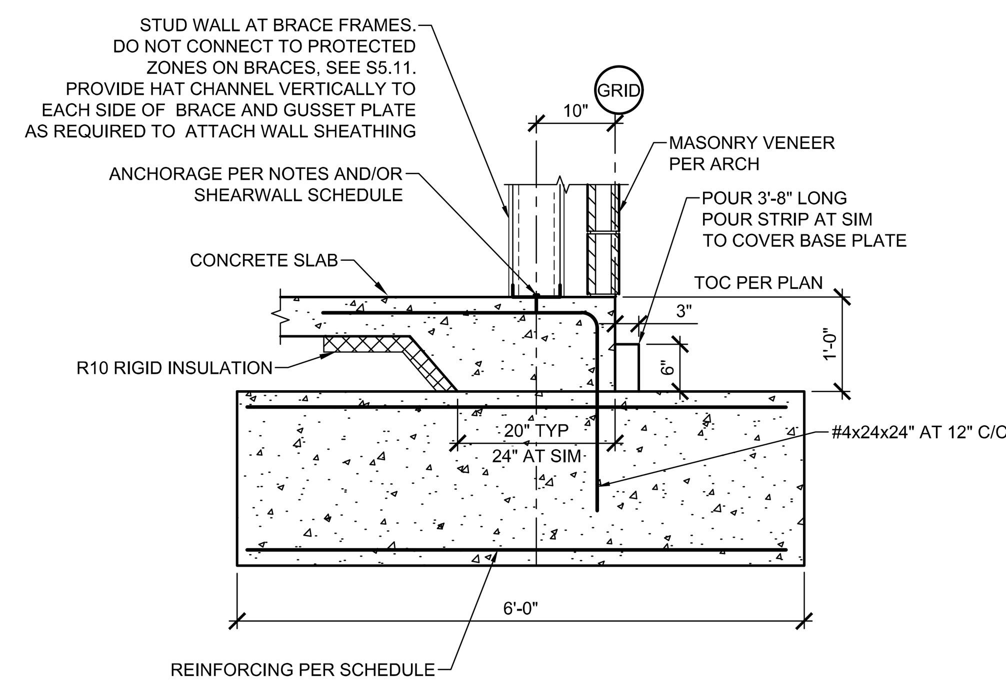
E10 SECTION
3/4" = 1'-0" REF: S1.02



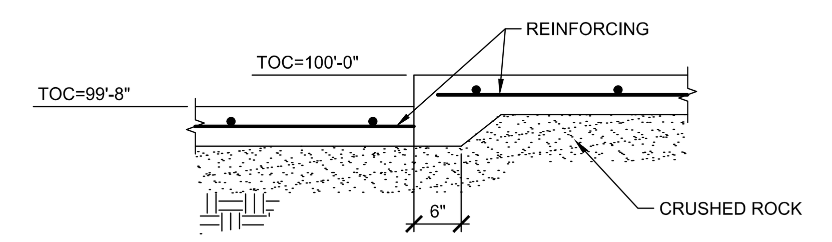
C1 SECTION
3/4" = 1'-0" REF: S1.01, S1.02, S1.51



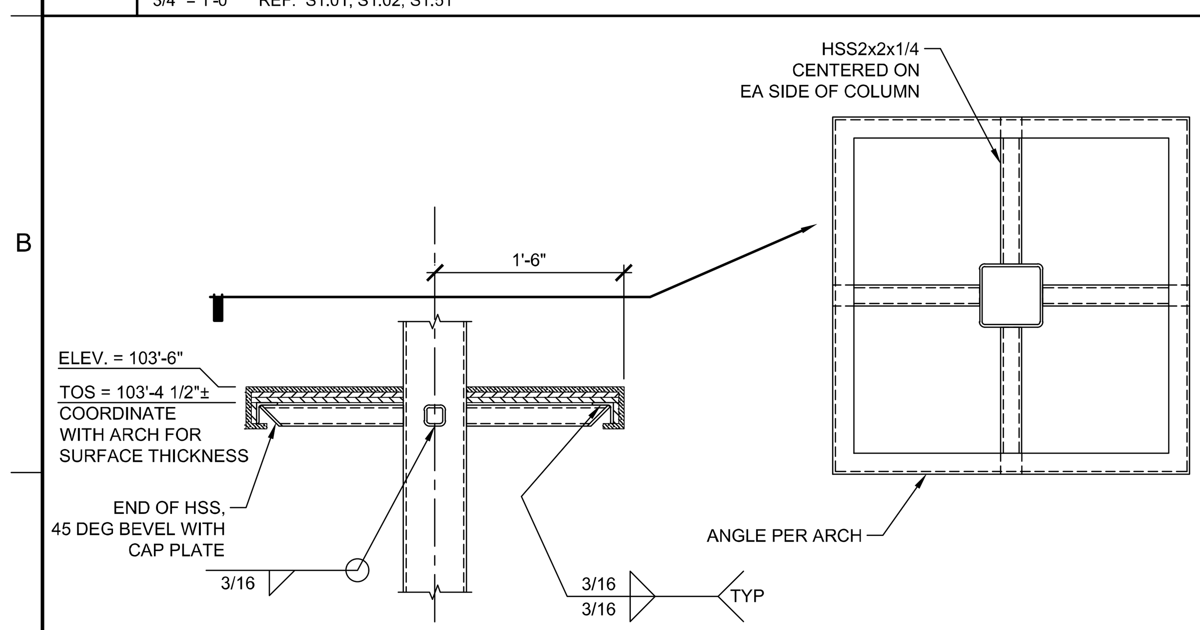
C4 SECTION
3/4" = 1'-0" REF: S1.01, S1.02



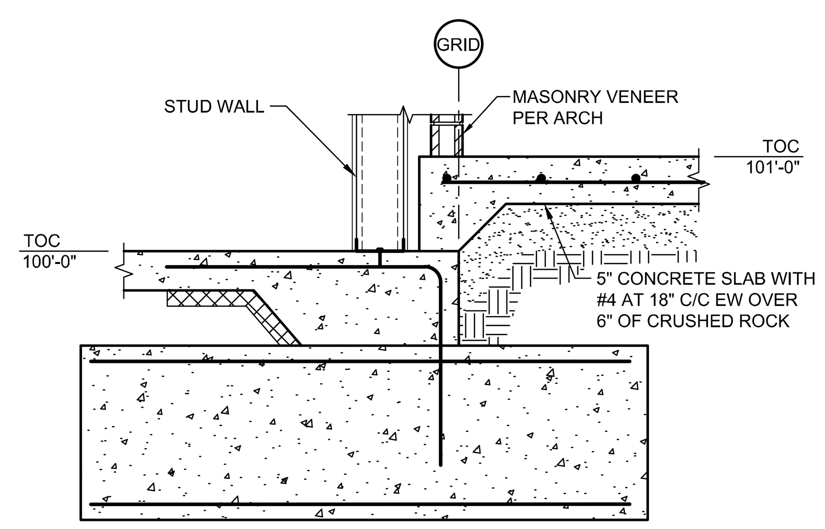
C7 SECTION
3/4" = 1'-0" REF: S1.11



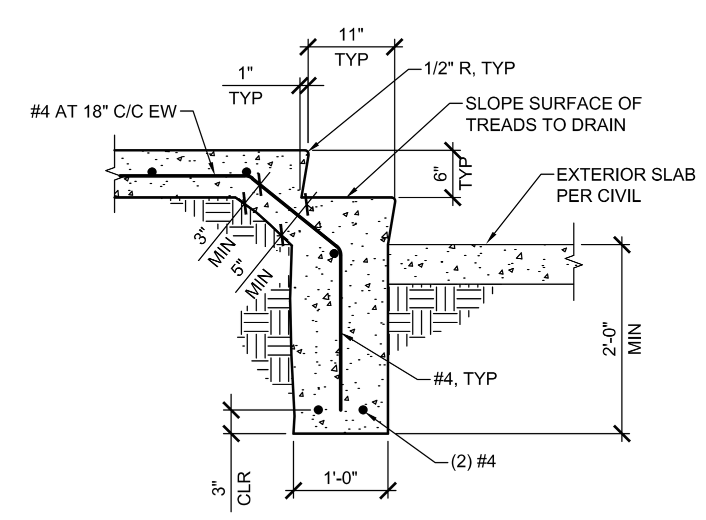
C10 SECTION
3/4" = 1'-0" REF: S1.01



A1 SECTION
1" = 1'-0" REF: S1.01, S1.02



A4 SECTION
3/4" = 1'-0" REF: S1.01



A7 SECTION
3/4" = 1'-0" REF: S1.01

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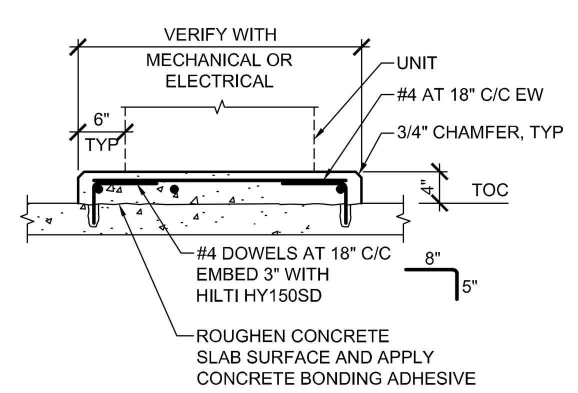
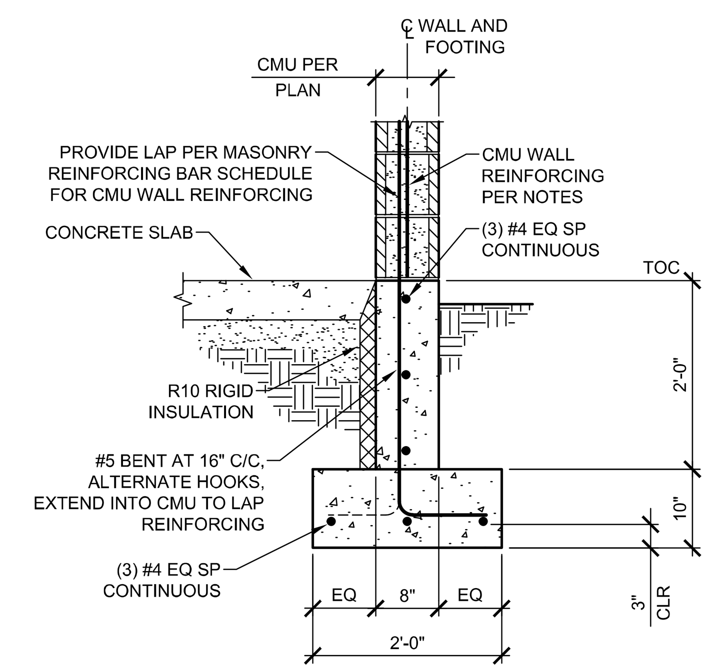
PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

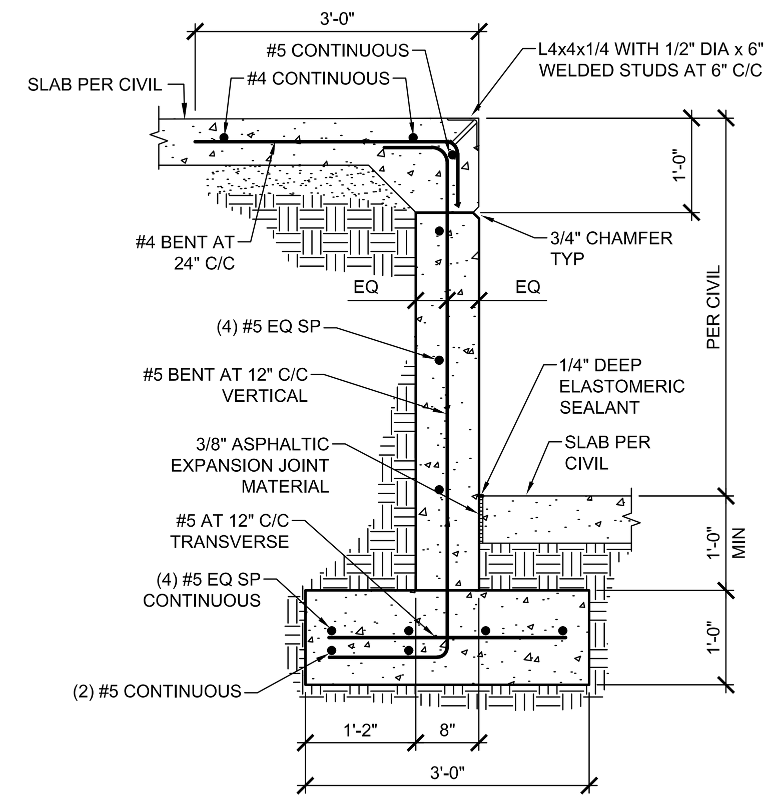
DATE
12/18/2023
SHEET NAME
SECTIONS AND DETAILS
SHEET
S5.02



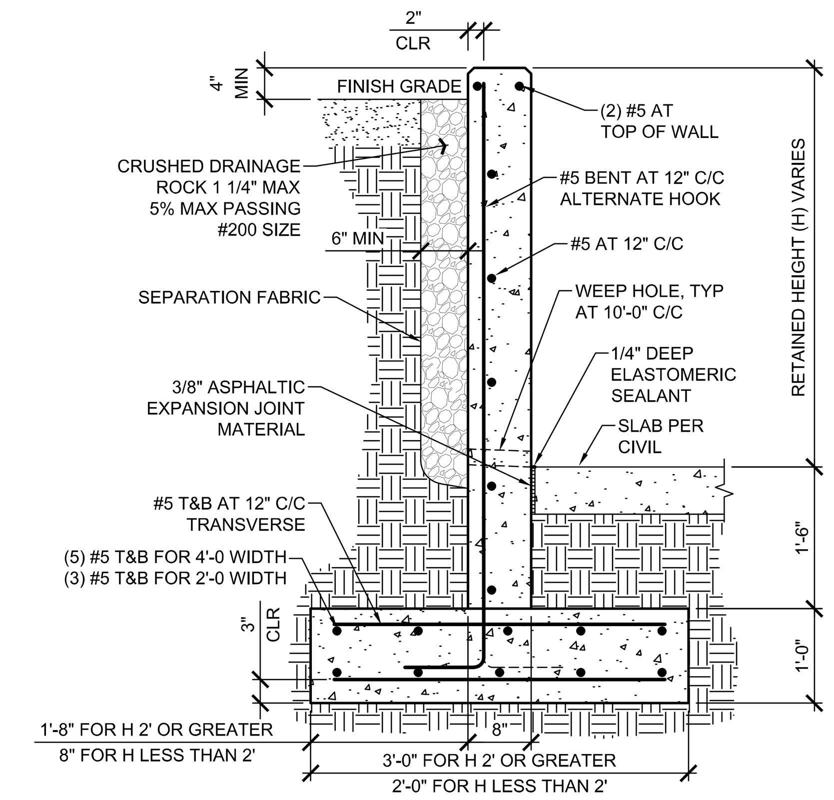
G1 DETAIL
3/4" = 1'-0" REF: S1.01, S1.11, S1.12



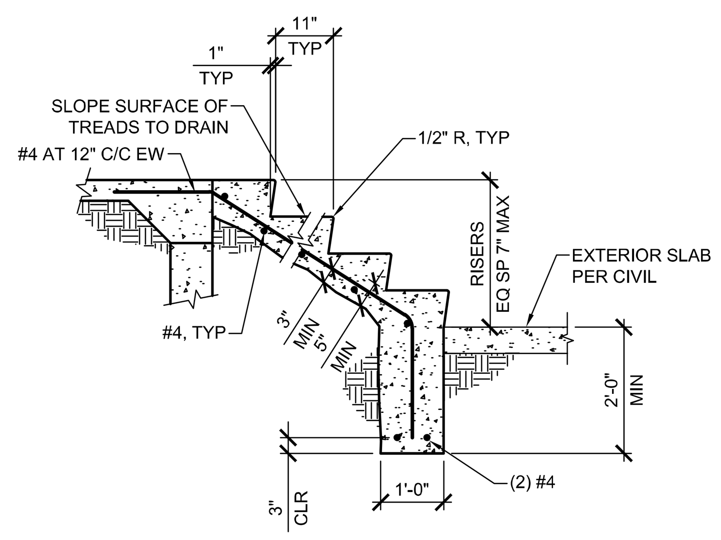
G4 DETAIL
3/4" = 1'-0" REF: S1.51



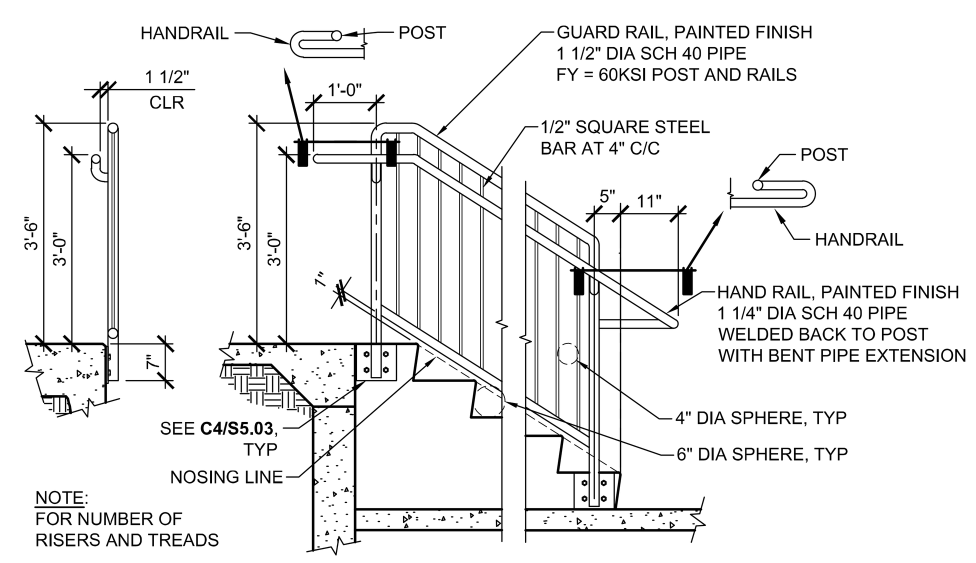
G7 DETAIL
3/4" = 1'-0" REF: S1.03



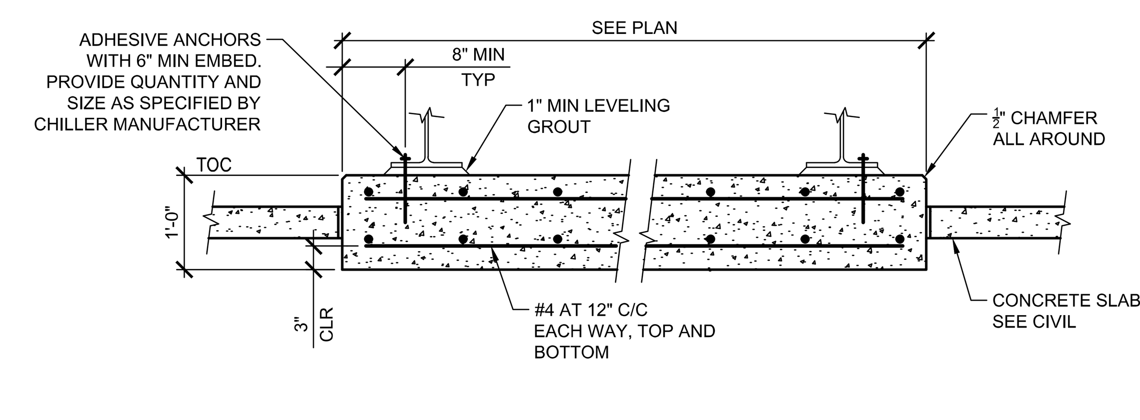
G10 DETAIL
3/4" = 1'-0" REF: S1.03



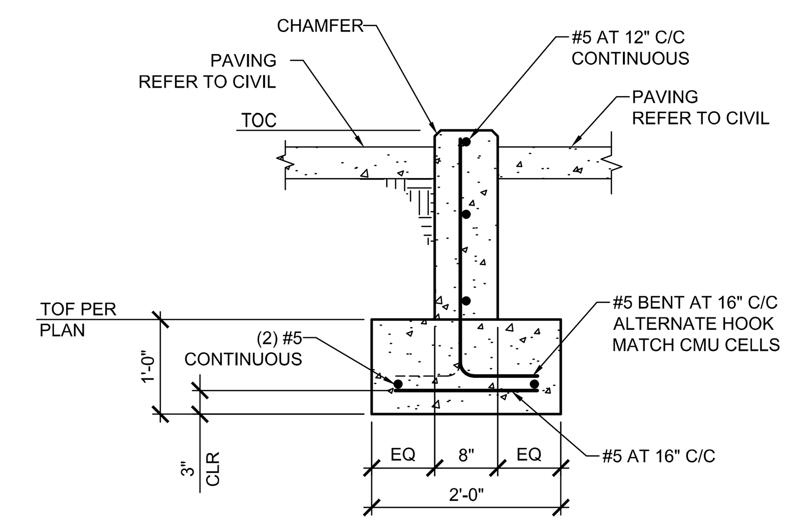
E1 DETAIL
1/2" = 1'-0" REF: S1.03



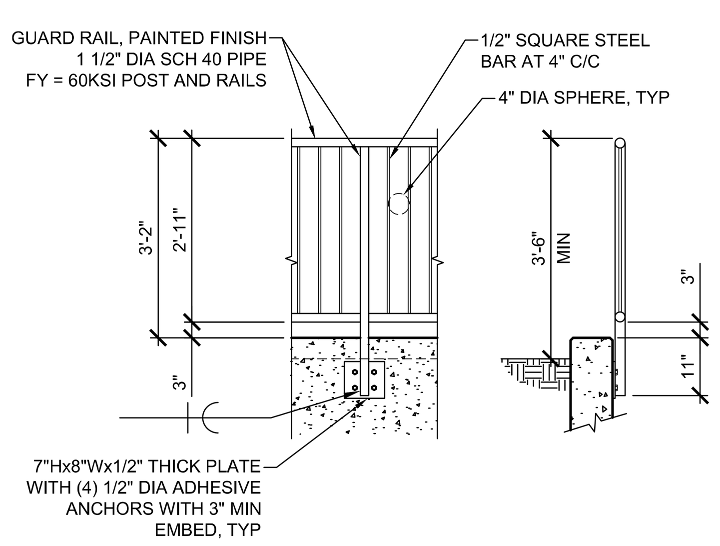
E4 DETAIL
1/2" = 1'-0" REF: S1.03



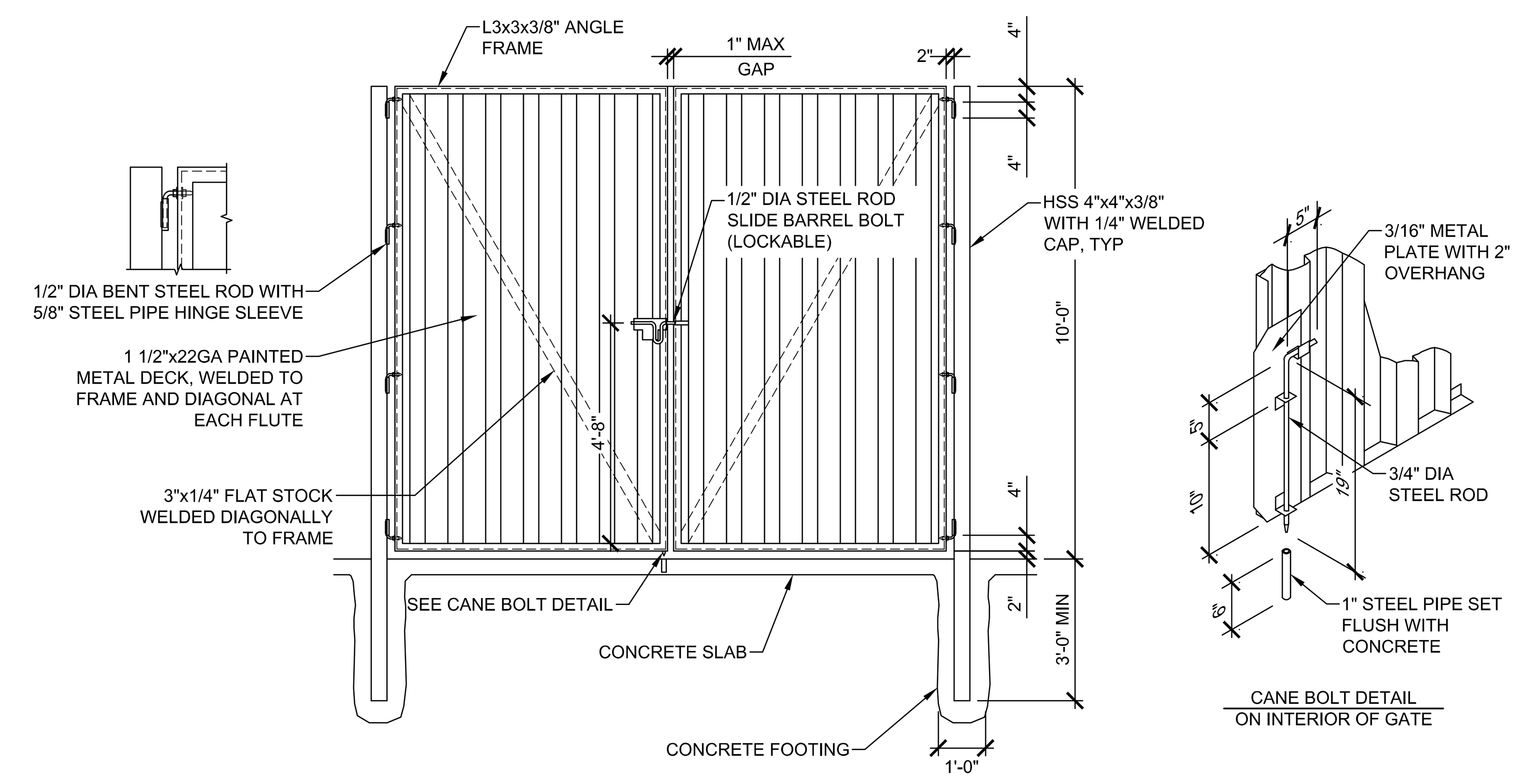
E7 DETAIL
3/4" = 1'-0" REF: S1.03



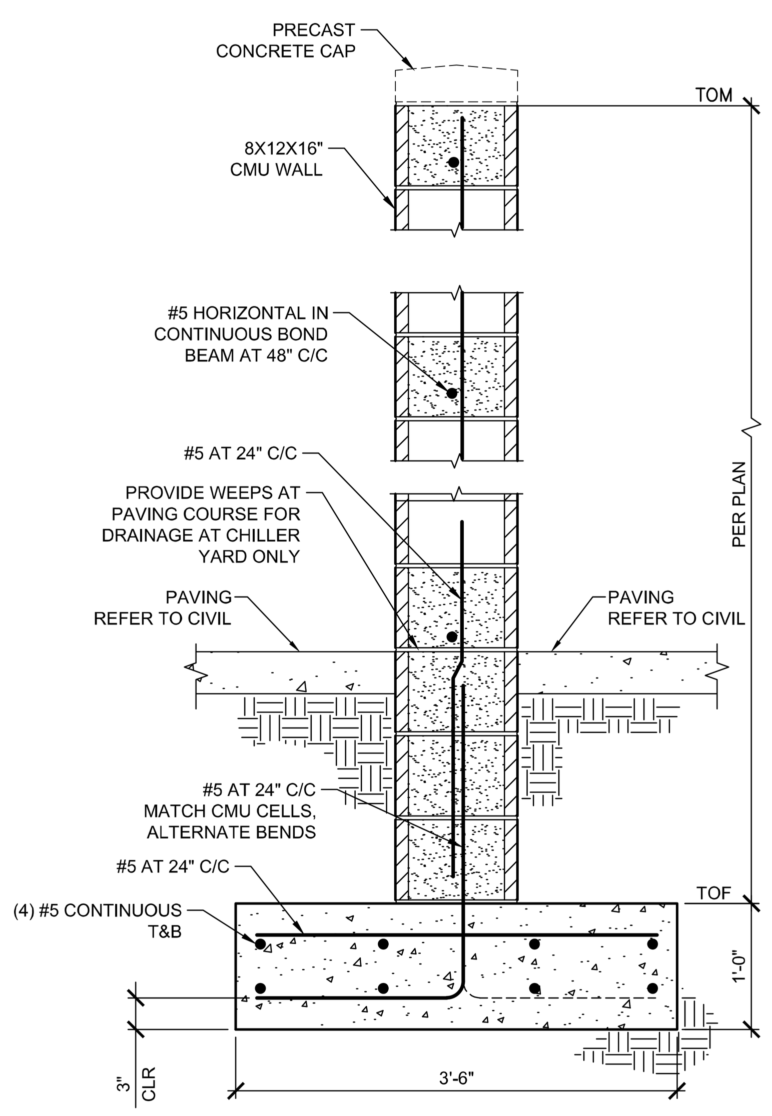
E10 DETAIL
3/4" = 1'-0" REF: S1.11



C4 DETAIL
1/2" = 1'-0" REF: S1.03, S5.03

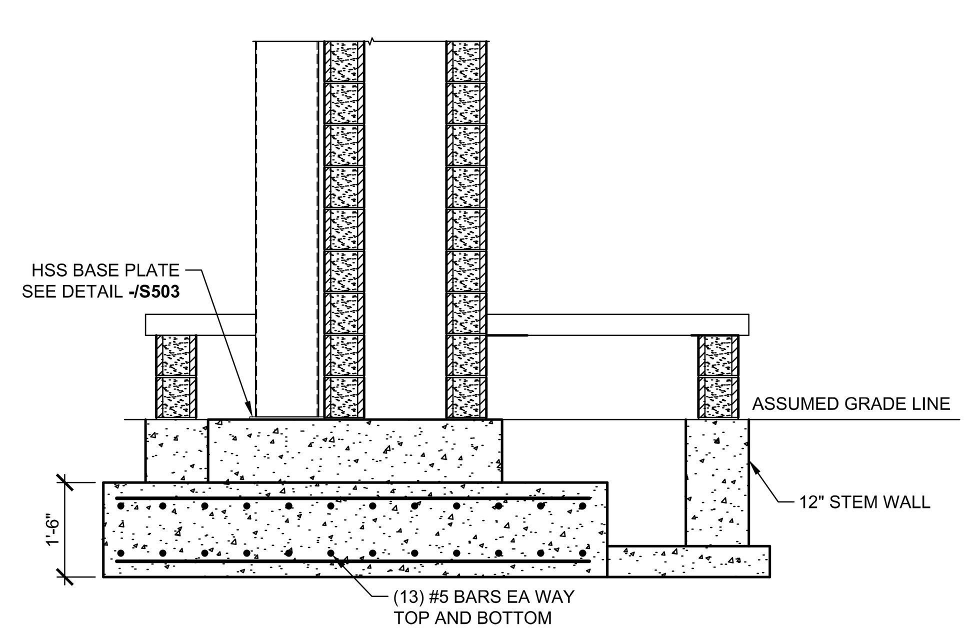


C7 DETAIL
3/8" = 1'-0" REF: S1.03



NOTE:
1. THE CMU PLACED BELOW SLAB / GRADE SHALL BE PLAIN FACED AND SOLID GROUTED.

A1 DETAIL
1" = 1'-0" REF: S1.03



A4 DETAIL
1/2" = 1'-0" REF: S1.03

A7 DETAIL
3/4" = 1'-0" REF: S1.11

A10 DETAIL
3/4" = 1'-0" REF: S1.11

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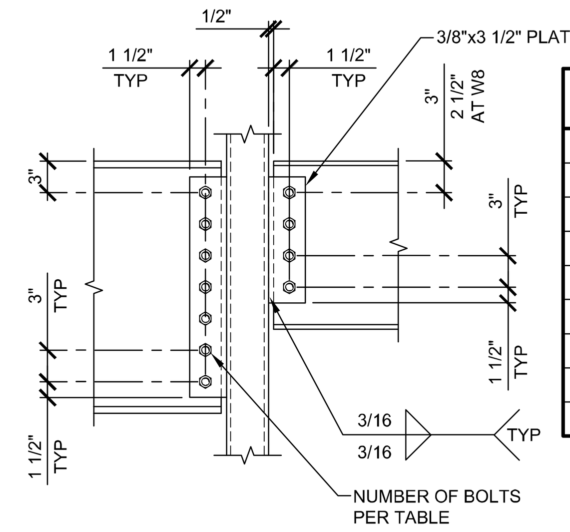
2023.12.18 17:05:10-08'00'

PASCO SCHOOL DISTRICT ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE: 12/18/2023
SHEET NAME: SECTIONS AND DETAILS
SHEET: S5.03

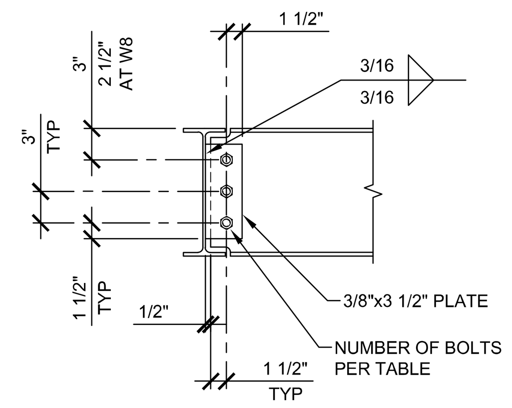


SUPPORTED BEAM SIZE	NUMBER OF 3/4" DIA BOLTS	ASD STRENGTH
W8	2	16.5K
W10	2	16.5K
W12	3	28.8K
W14	3	28.8K
W16	4	41.5K
W18	5	54.1K
W21	6	66.5K
W24	7	78.7K
W36	10	115K

PER AISC TABLE 10-10a

NOTES:
1. THESE MEMBERS AND CONNECTIONS ARE PART OF THE MFRS WHERE INDICATED ON THE PLANS.

G1 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S1.21, S2.51



SUPPORTED BEAM SIZE	NUMBER OF 3/4" DIA BOLTS	ASD STRENGTH
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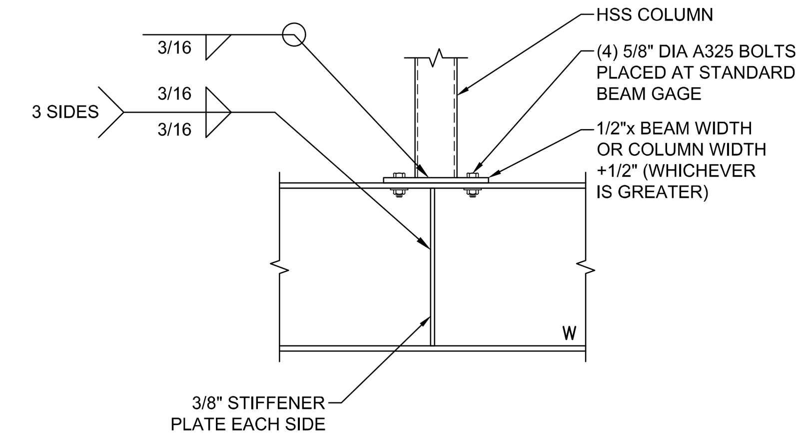
W24	7	78.7K
W36	10	115K

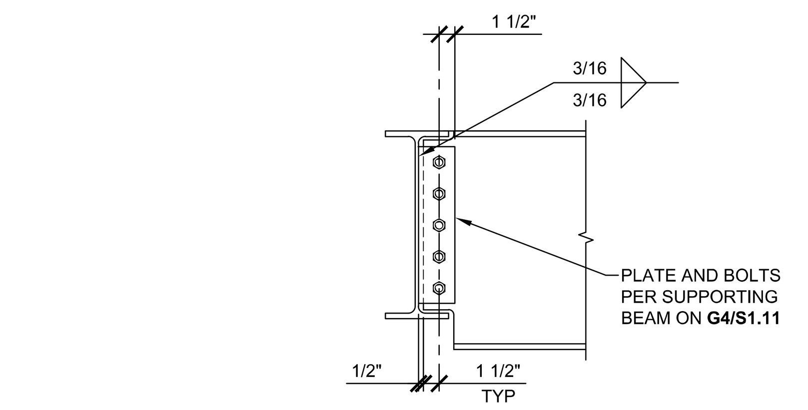
PER AISC TABLE 10-10a

NOTES:
1. THESE MEMBERS AND CONNECTIONS ARE PART OF THE MFRS WHERE INDICATED ON THE PLANS.

G4 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S2.51

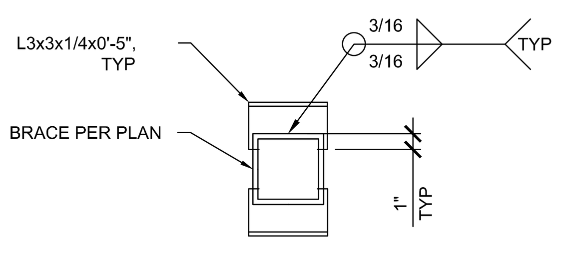


G7 DETAIL
1" = 1'-0" REF: S1.11, S1.12



NOTES:
1. THESE MEMBERS AND CONNECTIONS ARE PART OF THE MFRS WHERE INDICATED ON THE PLANS.

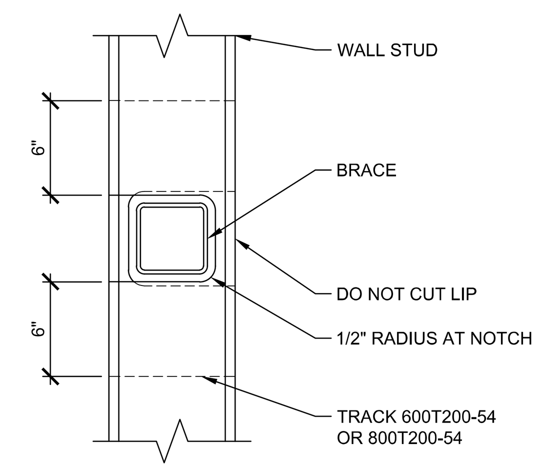
G10 DETAIL
1" = 1'-0" REF: S1.11



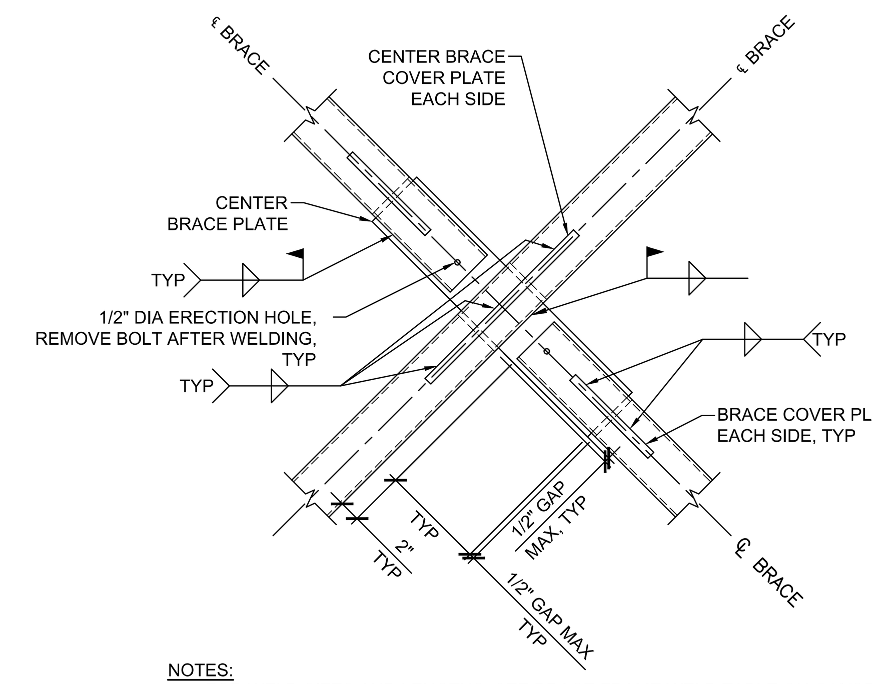
WALL SUPPORT CONNECTOR

NOTES:
1. DO NOT ATTACH WALL TRACK DIRECTLY TO BRACE, LOCATE CONNECTORS AWAY FROM PROTECTED ZONES SHOWN IN C10/S5.11
2. AT CONTRACTORS OPTION, NOTCH STUDS FOR BRACES PER SECTION E4/S5.11 OR PROVIDE HAT CHANNELS EACH SIDE OF THE BRACED FRAME AND CONNECTORS TO ATTACH WALL SHEATHING
3. THESE MEMBERS AND WELDS ARE CONNECTED TO THE MFRS

E1 DETAIL
1-1/2" = 1'-0" REF: S1.11, S1.12



E4 DETAIL
1-1/2" = 1'-0" REF: S1.11, S1.12



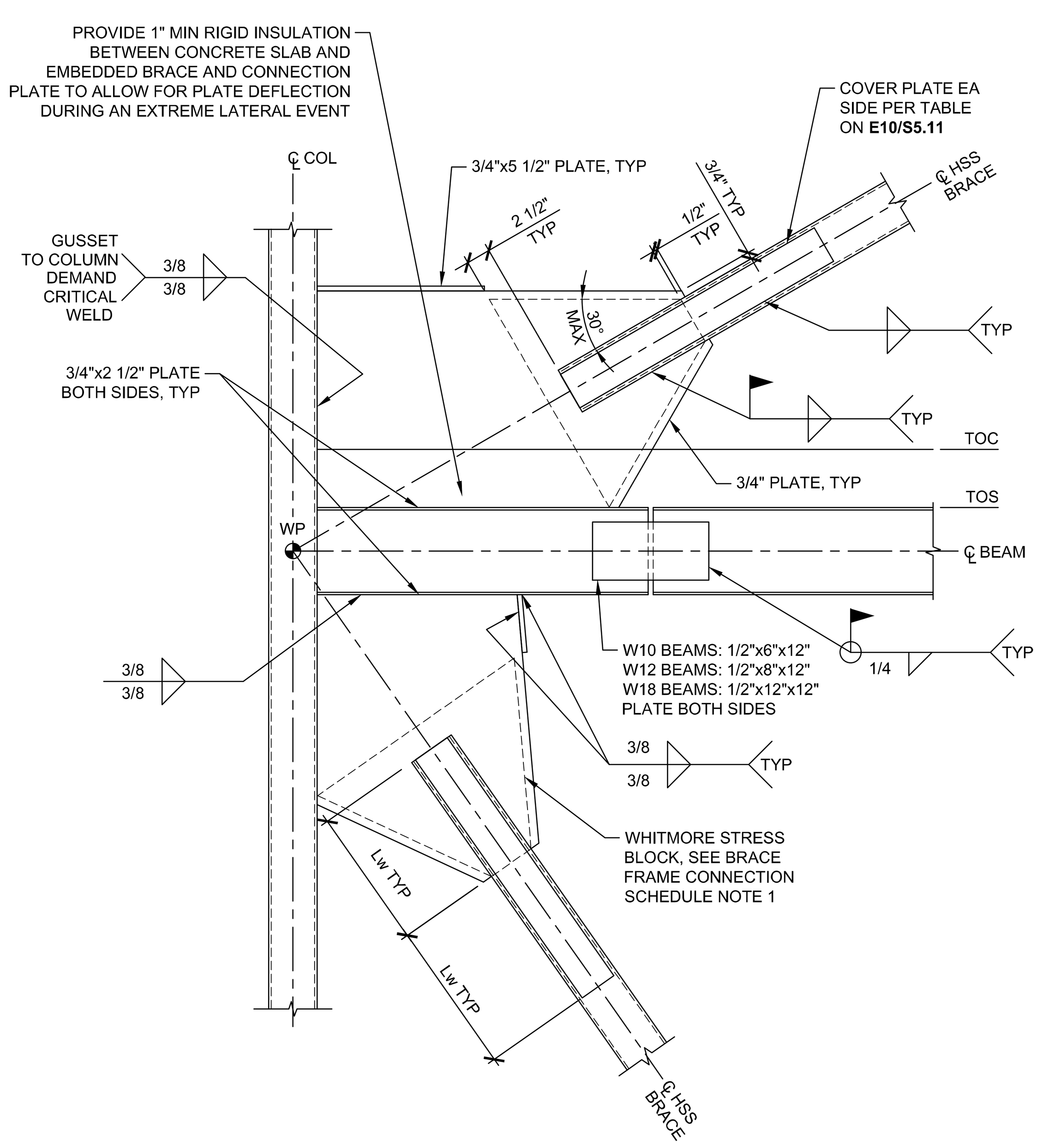
NOTES:
1. FOR WELD SIZES AND LENGTHS, SEE BRACE FRAME WELD TABLE ON **C10/S5.11**.
2. THESE MEMBERS AND WELDS ARE PART OF THE MFRS.

E7 DETAIL
1" = 1'-0" REF: S1.11

HSS Brace Size	Length of Brace to Gusset Plate or Center Brace Plate Weld	Brace to gusset or cover plate weld size	Cover Plate Size	Length of Brace cover plate weld	Center Brace Plate Size	Center Brace Cover Plate Size
2x2x1/4	6"	3/16	1/2"x1 1/8"x8.5"	4"	NA	1/2"x1 1/8"x14"
3 1/2x3 1/2x1/4	11.25"	3/16	1/2"x1 1/8"x8.5"	4"	3/4"x5"	1/2"x1 1/8"x14"
4x4x5/16	12"	1/4	1/2"x2"x10.5"	5"	3/4"x6"	1/2"x2"x22"
4 1/2x 4 1/2 x 5/16	15.8"	1/4	1/2"x2"x10.5"	5"	3/4"x6 1/2"	1/2"x2"x22"
5x5x3/8	18.75"	1/4	1/2"x2"x10.5"	5"	1"x8"	1/2"x2"x22"
5x5x1/2	23"	1/4	1/2"x2"x10.5"	5"	1"x8"	1/2"x2"x22"

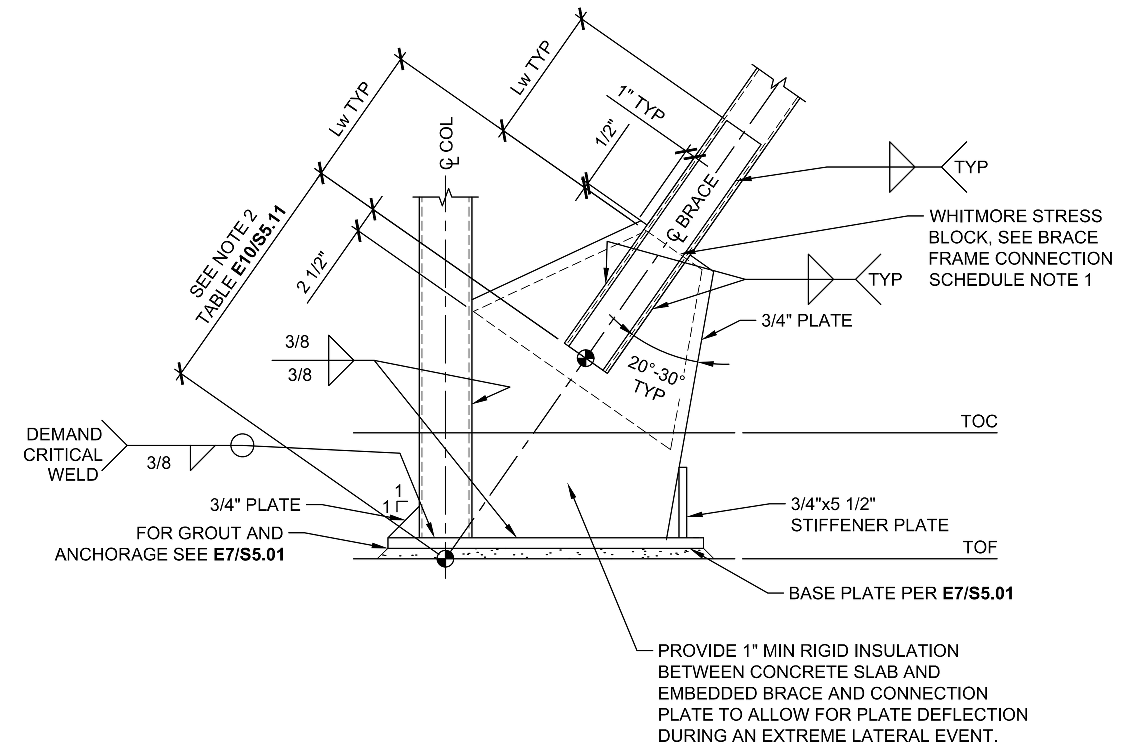
NOTES:
1. THE PURPOSE OF THE WHITMORE STRESS BLOCK IS TO ENSURE A PLASTIC HINGE WILL FORM IN THE BRACE CONNECTION GUSSET PLATE DURING AN EXTREME SEISMIC EVENT. IN ORDER TO ACHIEVE THIS, NO ELEMENTS MAY BE ATTACHED TO THE GUSSET PLATE WITH IN THE WHITMORE STRESS BLOCK.
2. THE WORK POINT TO WORK POINT DISTANCE FOR SPECIAL CONCENTRIC BRACED FRAME CONNECTIONS SHALL BE ESTABLISHED BY ENSURING THAT THE VERTEXES OF THE TRIANGLES SHOWN ON THE DETAIL ARE COINCIDENT WITH ADJACENT MEMBERS.
3. IF THE VERTEX OF A STRESS BLOCK DOES NOT COINCIDE WITH A COLUMN, A STIFFENER PLATE SHALL BE PROVIDED THAT EXTENDS FROM THE VERTEX OF THE WHITMORE STRESS BLOCK TO THE ADJACENT COLUMN WEB AND FLANGES.
4. THESE MEMBERS AND WELDS ARE PART OF THE MFRS.

E10 BRACE WELD TABLE
1" = 1'-0" REF: S1.11



NOTES:
1. THE DASHED LINES SHOWN ON THE DETAIL DEPICTING THE CODE-PRESCRIBED "WHITMORE STRESS BLOCK" SHALL BE SHOWN ON FABRICATION DRAWINGS TO ENSURE CODE COMPLIANCE.
2. SEE **E7/S5.11** FOR ALL BRACE WELD LENGTHS AND COVER PLATE SIZES.
3. THESE MEMBERS AND WELDS ARE PART OF THE MFRS.

A1 DETAIL
############ REF: S1.11

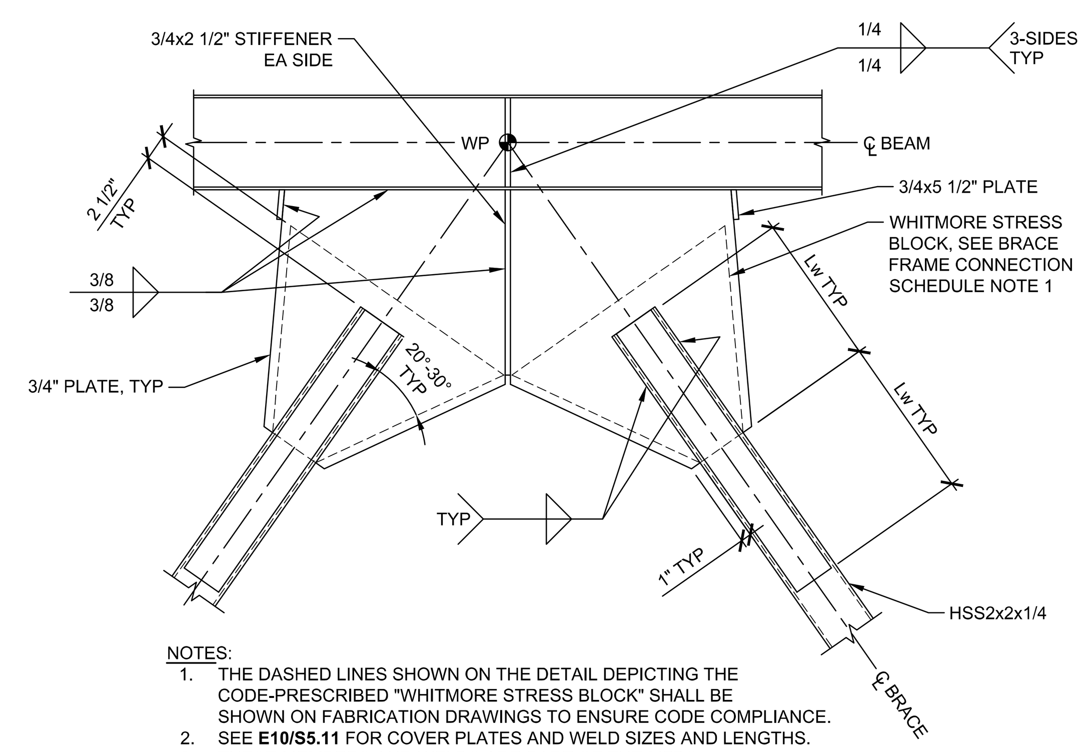


NOTES:
1. THE DASHED LINES SHOWN ON THE DETAIL DEPICTING THE CODE-PRESCRIBED "WHITMORE STRESS BLOCK" SHALL BE SHOWN ON FABRICATION DRAWINGS TO ENSURE CODE COMPLIANCE.
2. SEE **E10/S5.11** FOR COVER PLATES AND WELD SIZES AND LENGTHS.
3. THESE MEMBERS AND WELDS ARE PART OF THE MFRS.

MIN GUSSET PLATE WELD LENGTHS

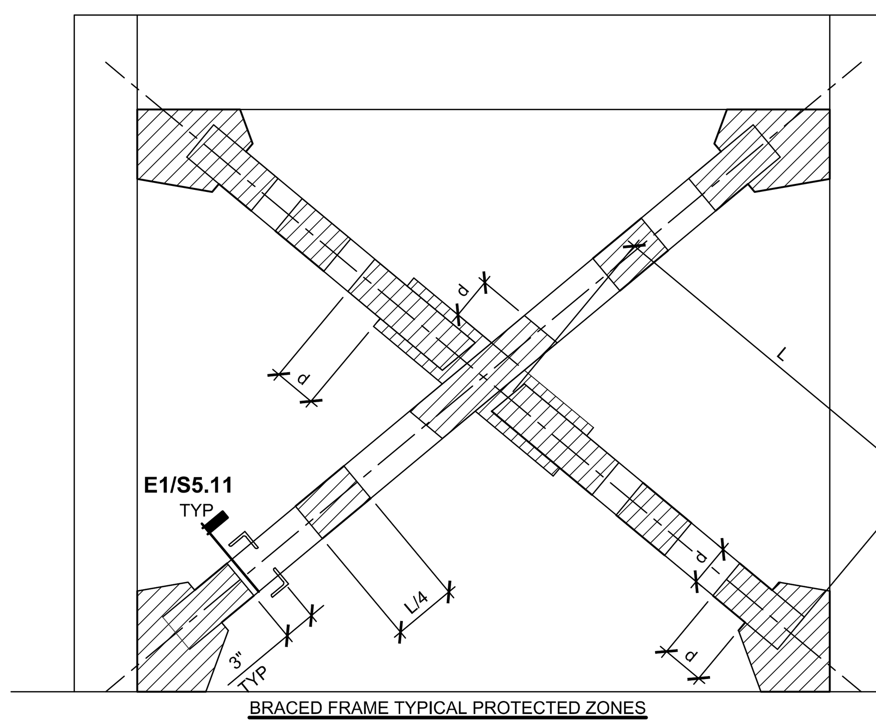
HSS BRACE SIZE	MIN WELD LENGTH - GUSSET TO BASE PLATE AND GUSSET TO COLUMN
3 1/2x3 1/2x1/4 AND SMALLER	10"
4x4x5/16	15"
5x5x3/8	20"
5x5x1/2	22"

A4 DETAIL
############ REF: S1.11



NOTES:
1. THE DASHED LINES SHOWN ON THE DETAIL DEPICTING THE CODE-PRESCRIBED "WHITMORE STRESS BLOCK" SHALL BE SHOWN ON FABRICATION DRAWINGS TO ENSURE CODE COMPLIANCE.
2. SEE **E10/S5.11** FOR COVER PLATES AND WELD SIZES AND LENGTHS.
3. THESE MEMBERS AND WELDS ARE PART OF THE MFRS.

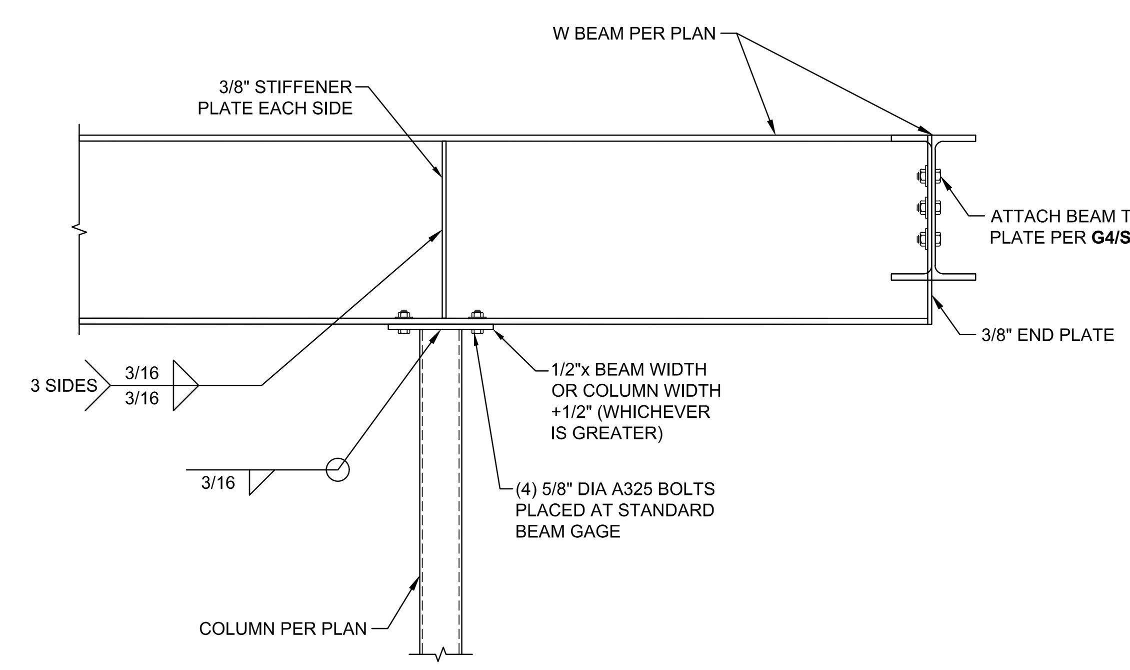
C7 DETAIL
1" = 1'-0" REF: S1.11



BRACED FRAME TYPICAL PROTECTED ZONES

NOTES:
1. NOTHING MAY BE ATTACHED TO BRACED FRAMES IN SHADED AREA, EXCEPT METAL DECK MAY BE ATTACHED TO TOP OF BEAM AND STIFFENER PLATES.
2. THESE MEMBERS AND WELDS ARE PART OF THE MFRS.

C10 DETAIL
1" = 1'-0" REF: S1.11, S1.12



A7 DETAIL
1 1/2" = 1'-0" REF: S1.11

A10 DETAIL
1" = 1'-0" REF: S1.12, S1.22

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PASCO SCHOOL DISTRICT ORION HIGH SCHOOL
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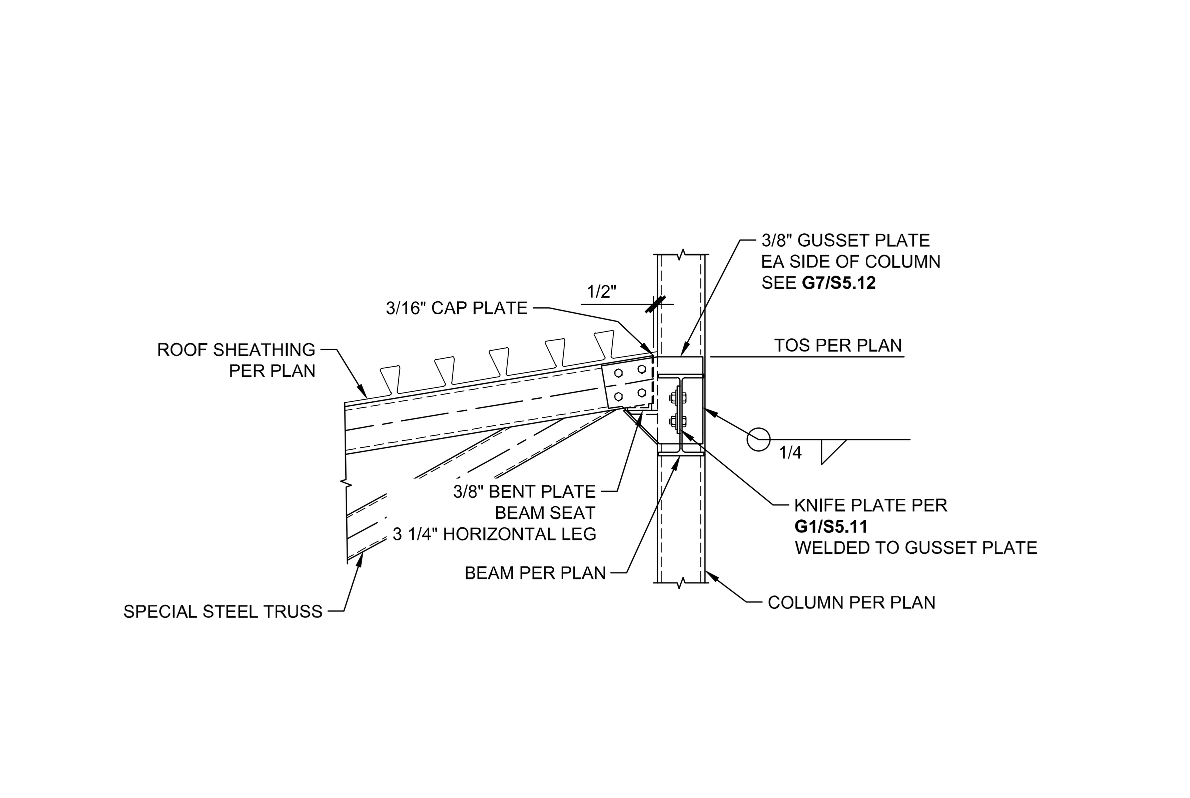
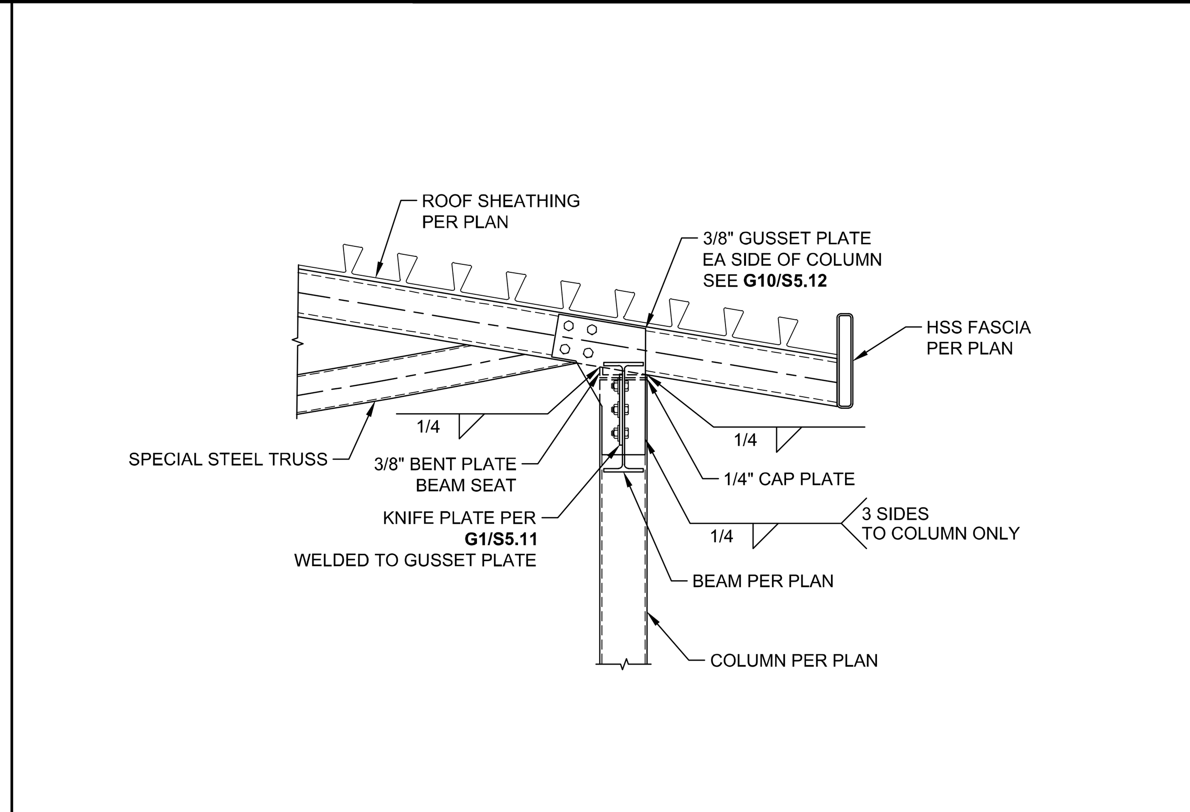
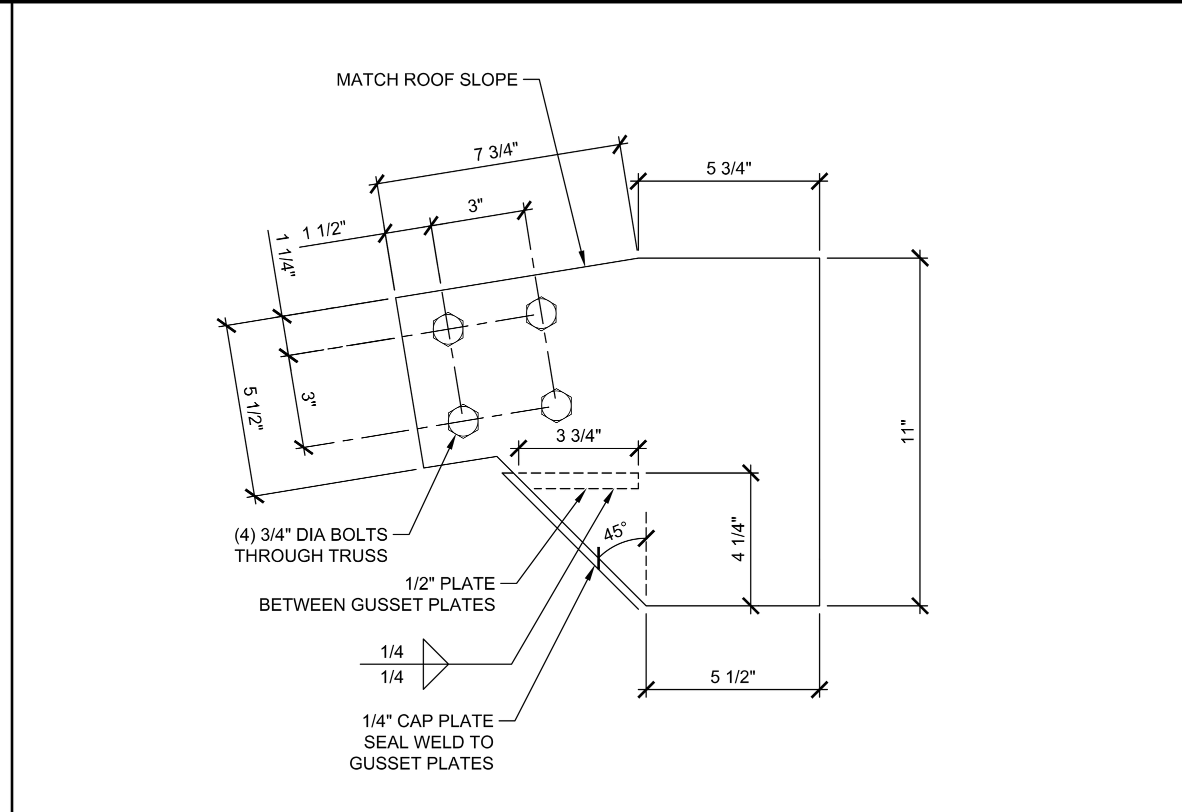
DATE: 12/18/2023
SHEET NAME: SECTIONS AND DETAILS
SHEET: S5.11



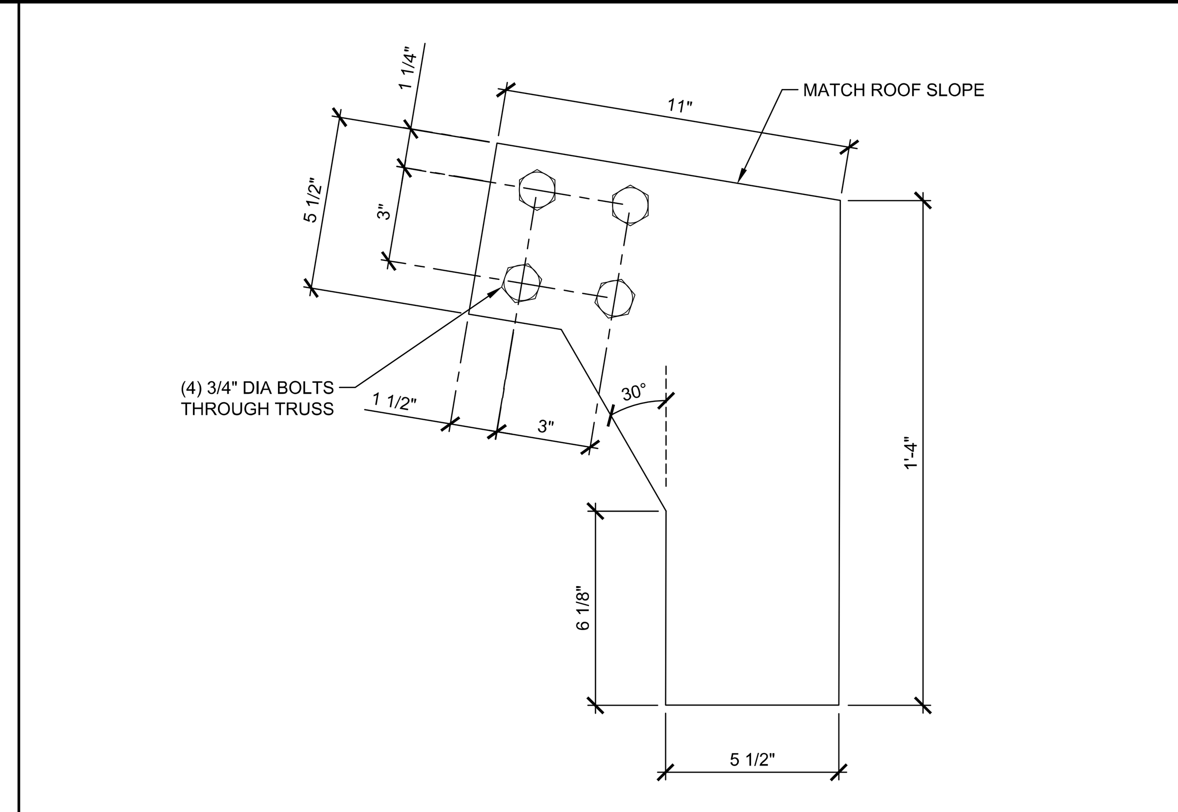
G1 DETAIL
3/4" = 1'-0" REF: S1.23



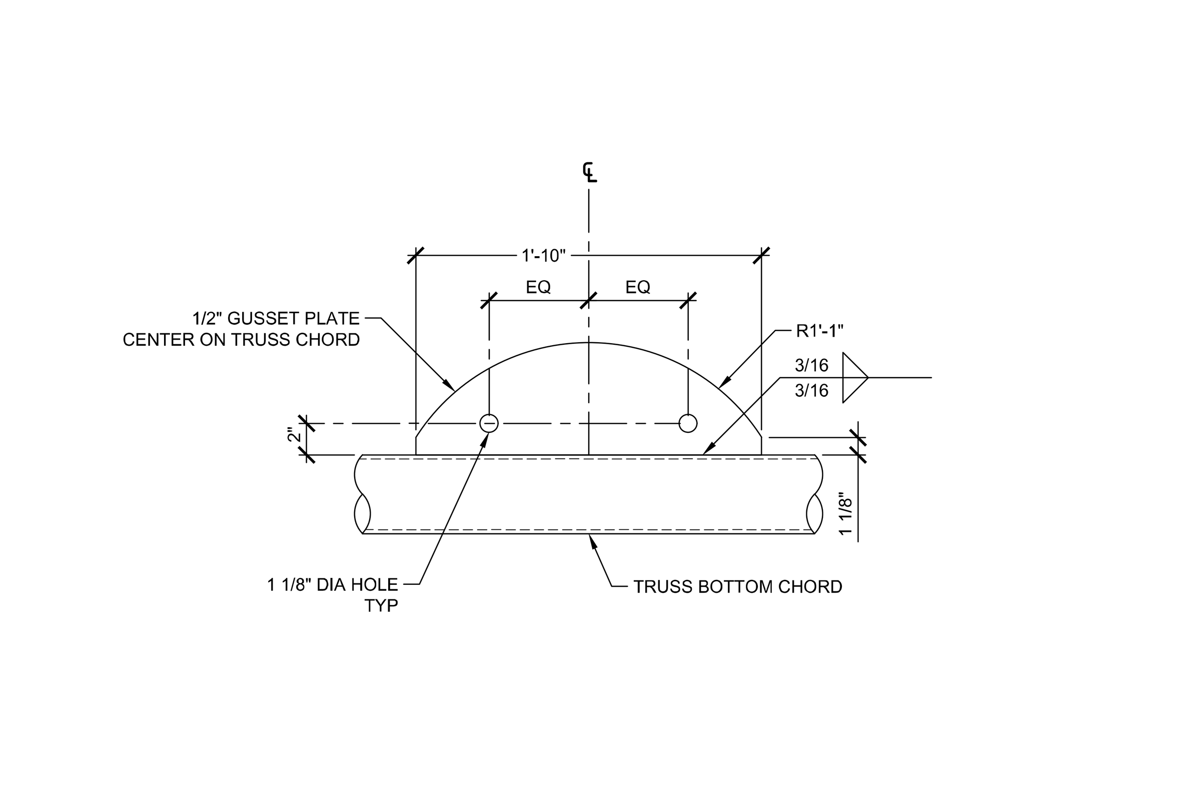
G4 DETAIL
3/4" = 1'-0" REF: S1.23



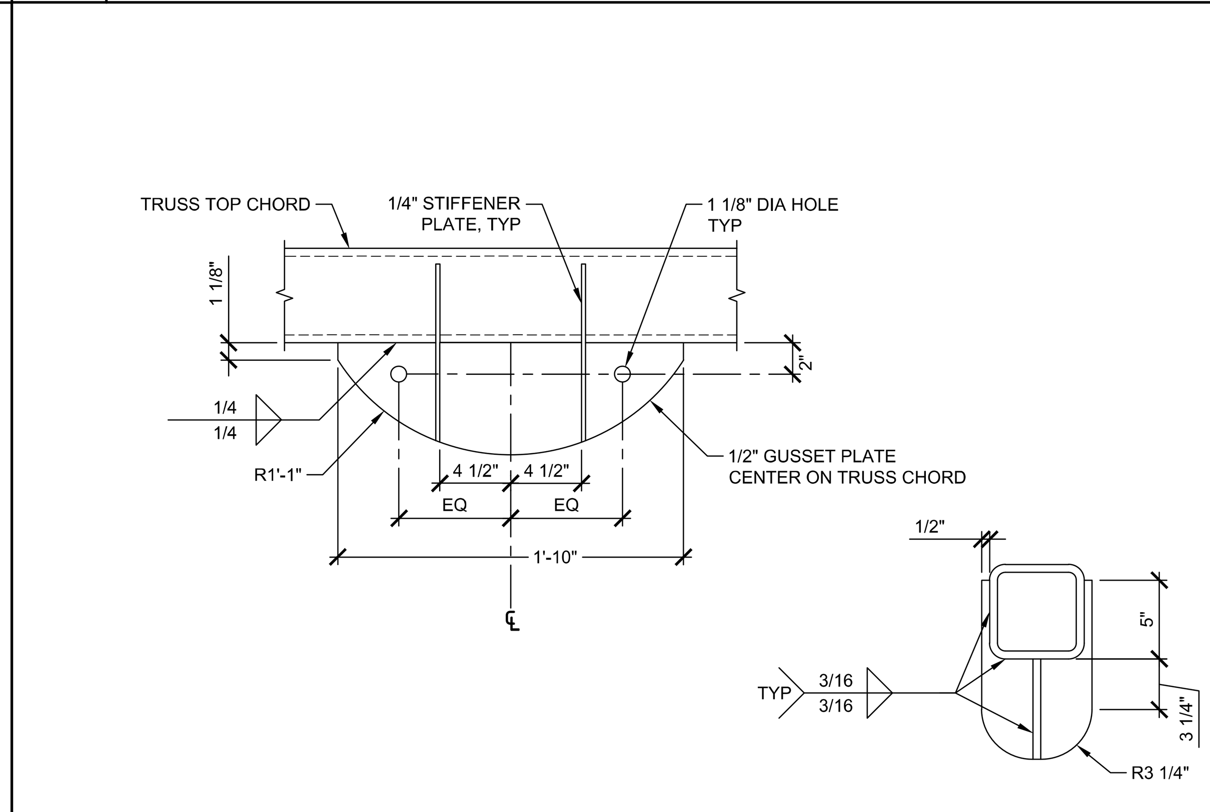
G7 DETAIL
3" = 1'-0" REF: S5.12



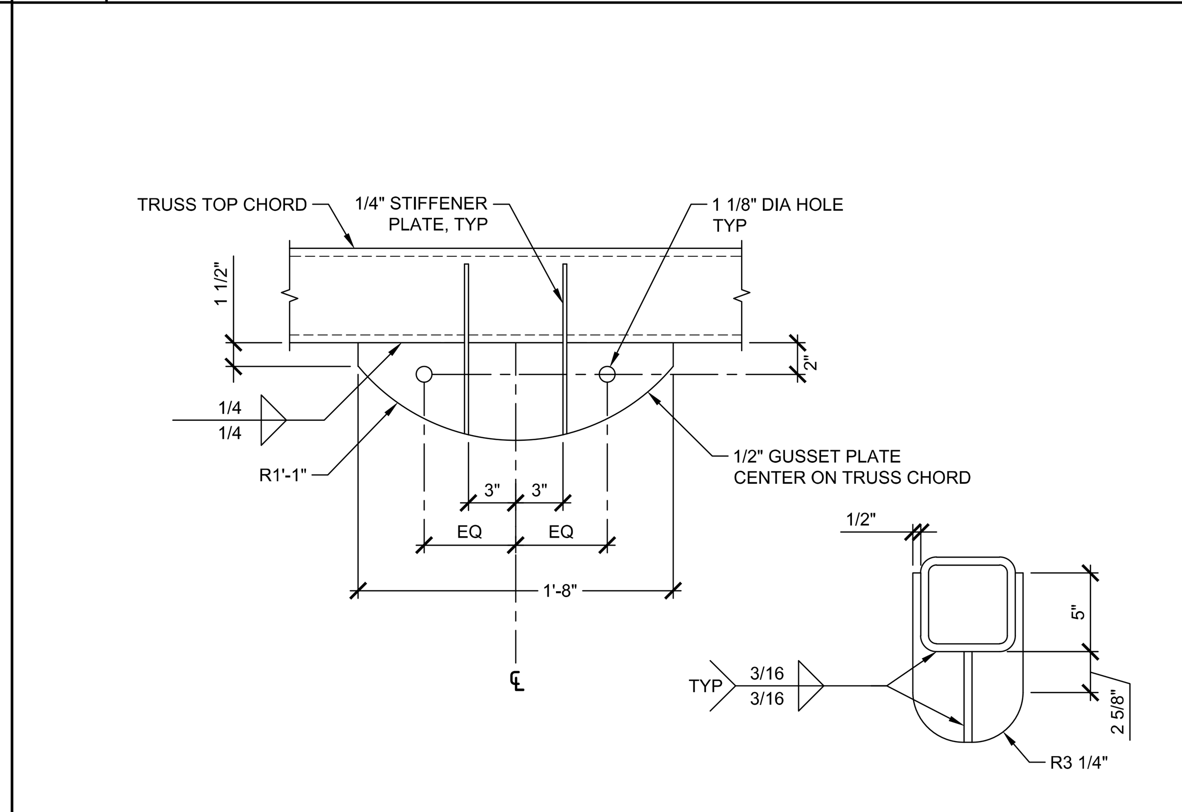
G10 DETAIL
3" = 1'-0" REF: S5.12



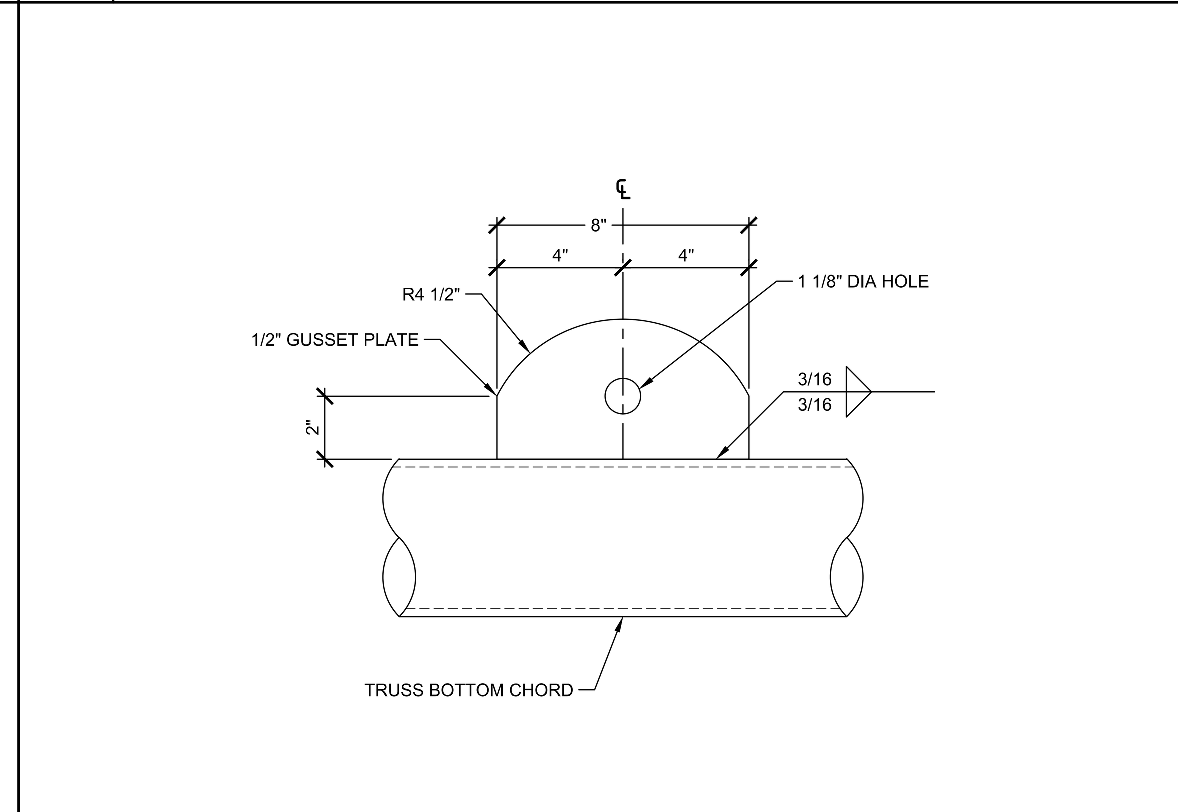
E1 DETAIL
1-1/2" = 1'-0" REF: S2.01



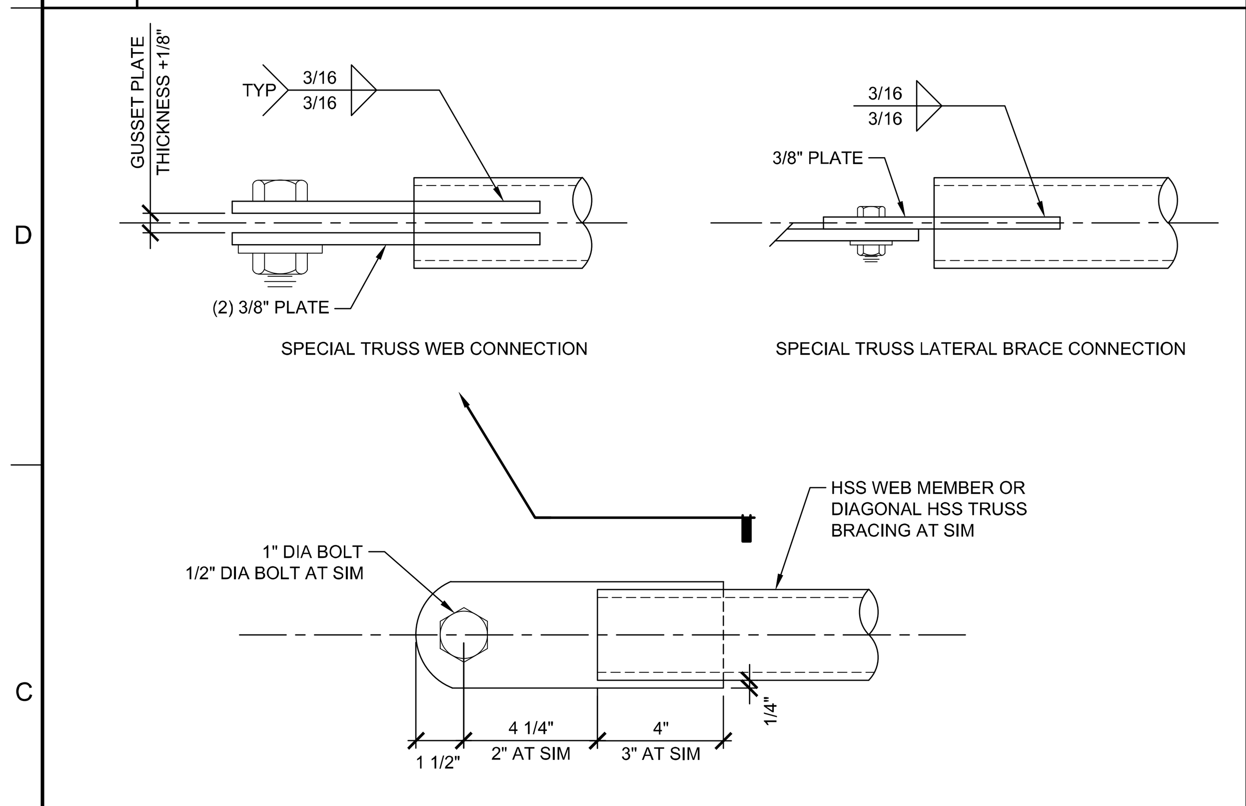
E4 DETAIL
1-1/2" = 1'-0" REF: S2.01



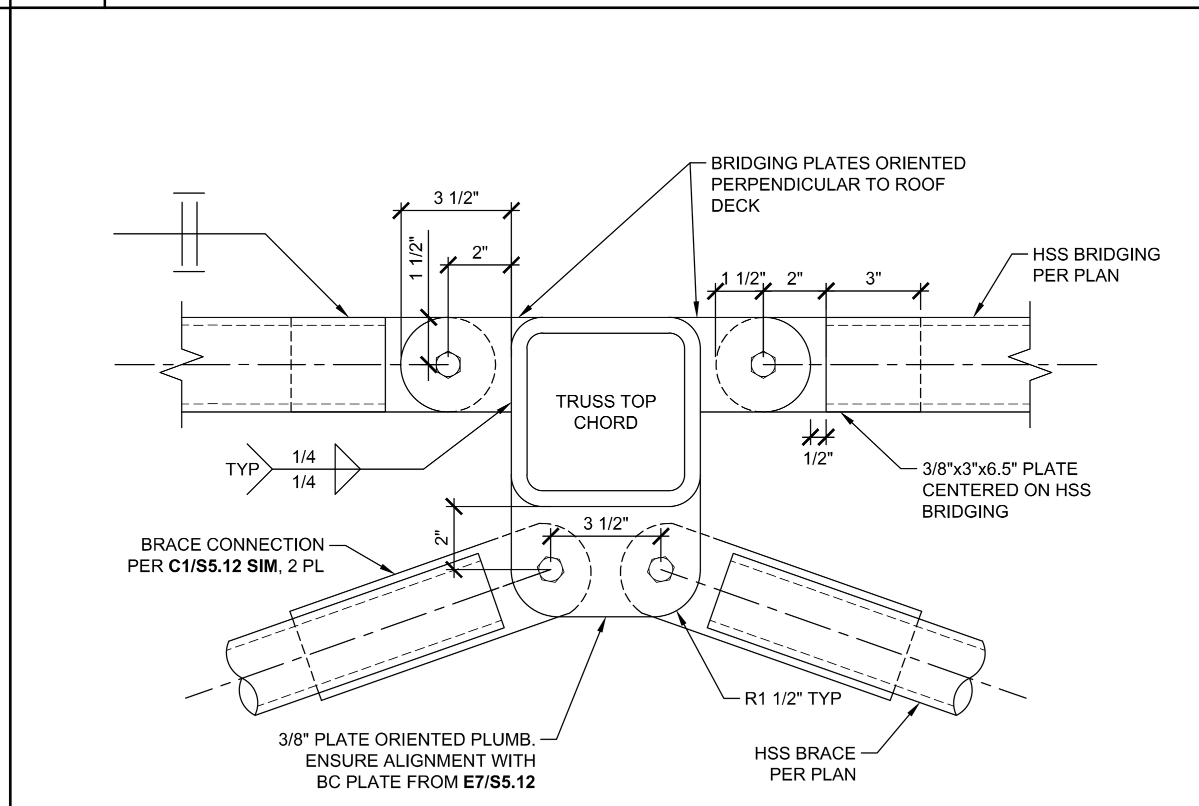
E7 DETAIL
1-1/2" = 1'-0" REF: S2.01



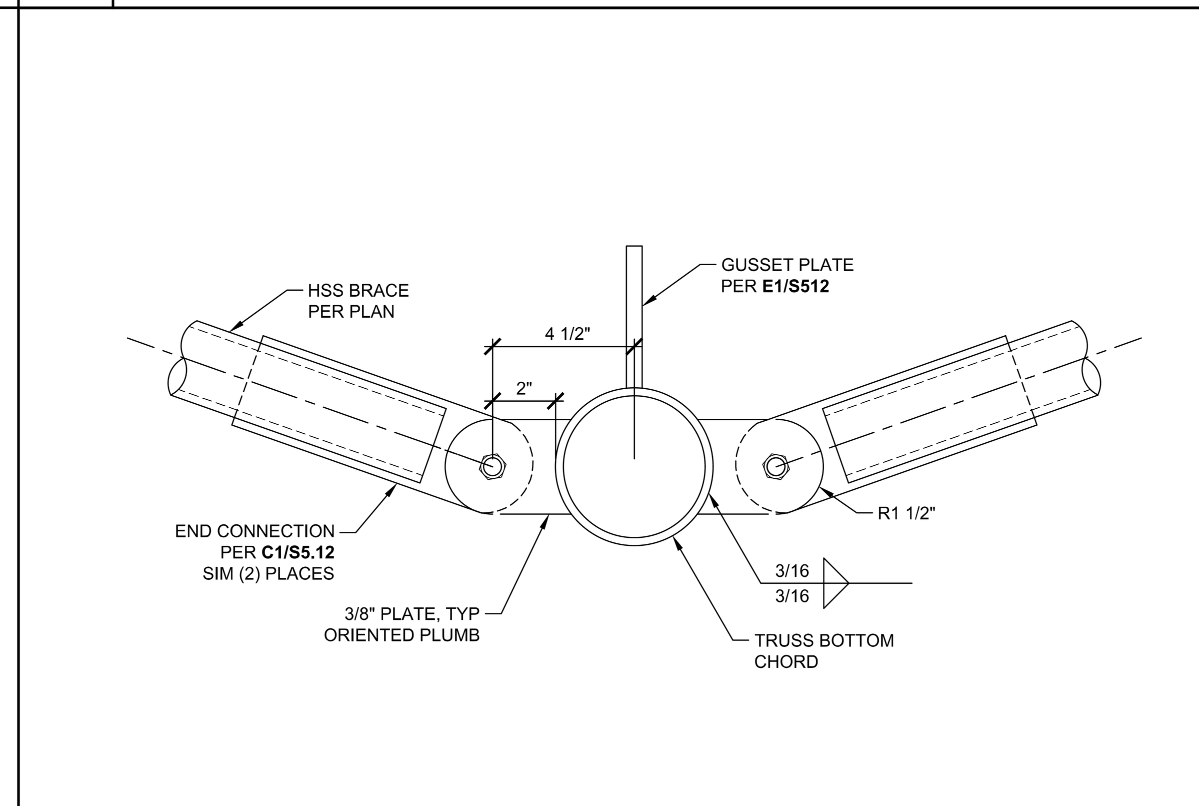
E10 DETAIL
3" = 1'-0" REF: S2.01



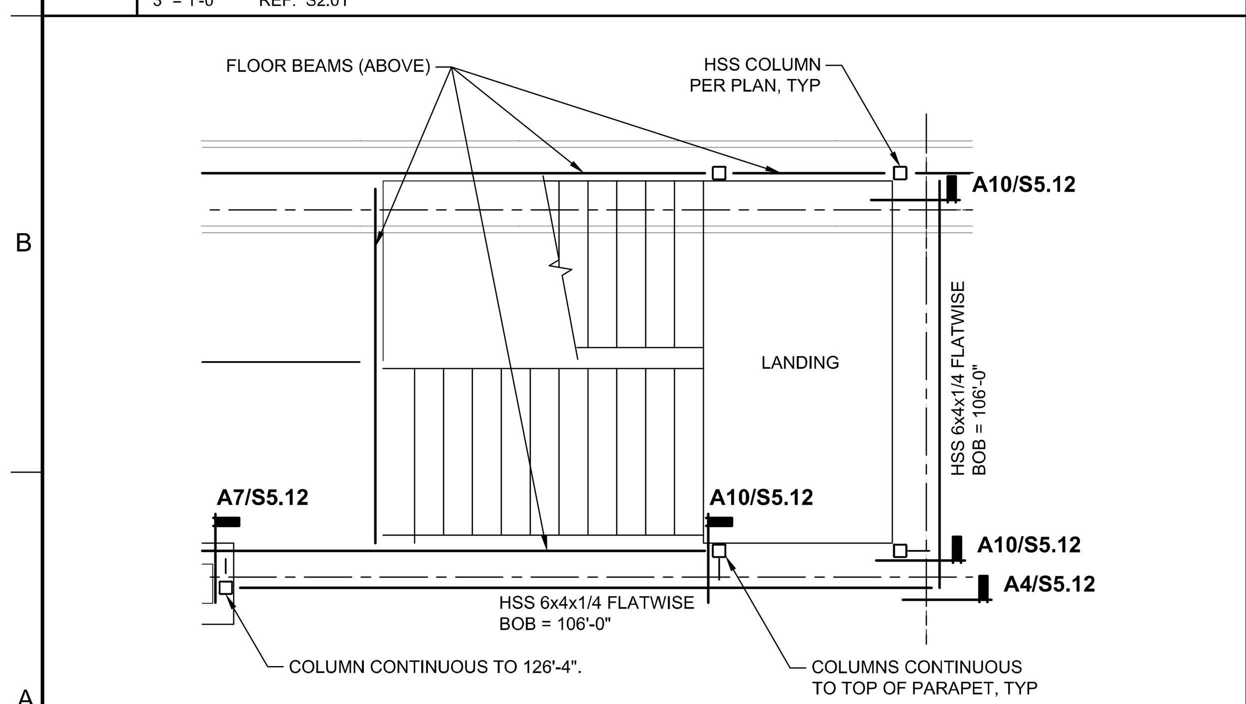
C1 DETAIL
3" = 1'-0" REF: S2.01



C4 DETAIL
3" = 1'-0" REF: S2.01, S5.21

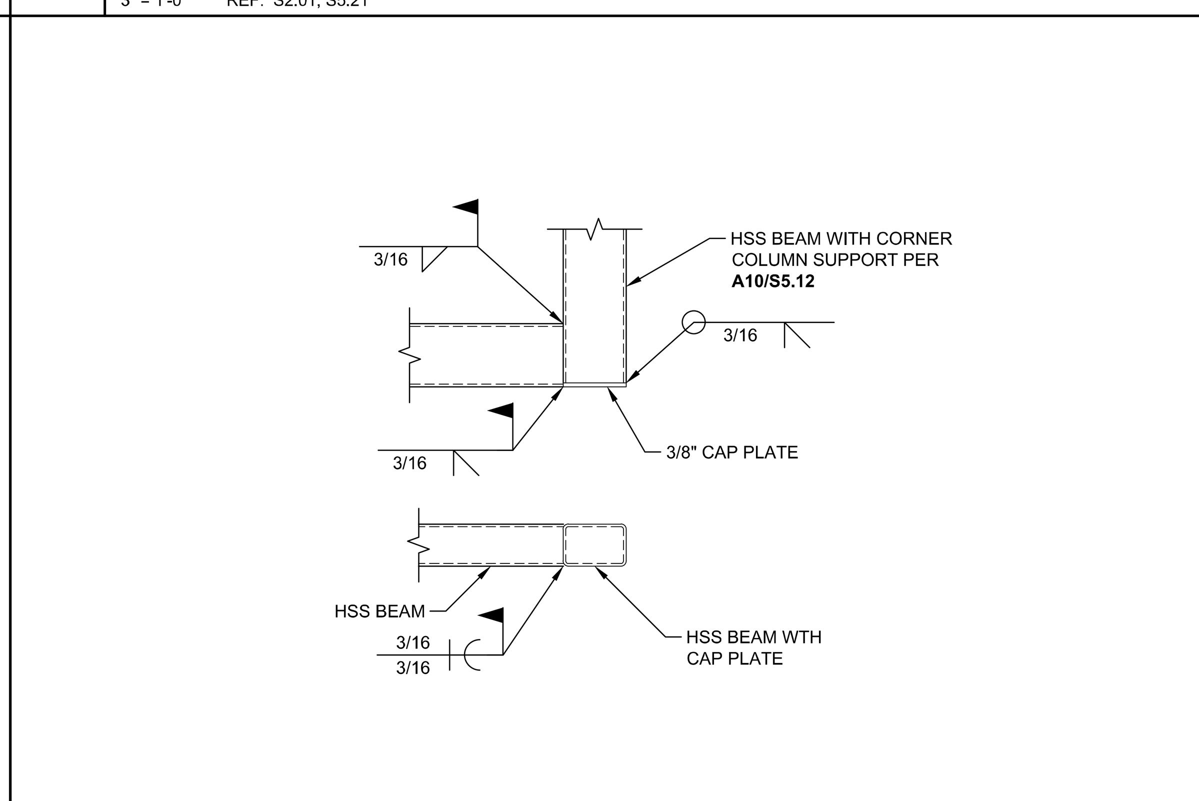


C7 DETAIL
3" = 1'-0" REF: S2.01, S5.21

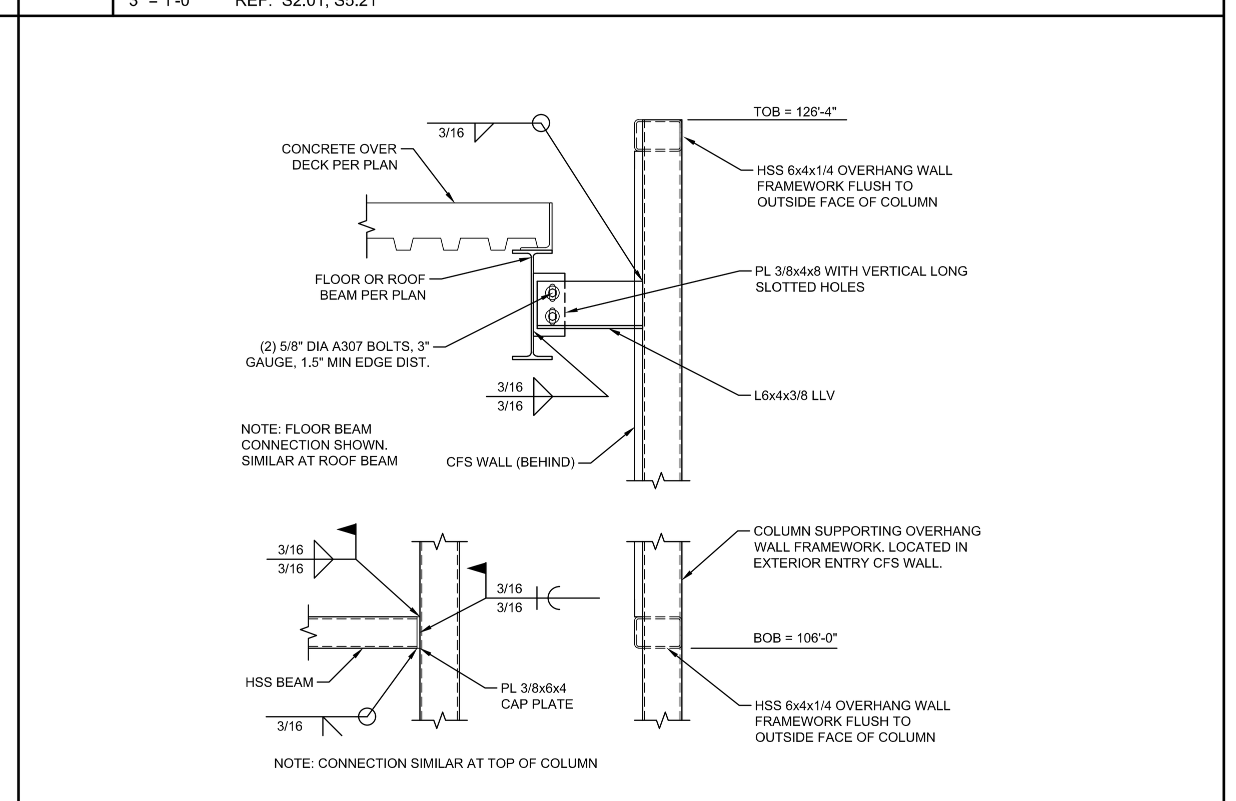


NOTE:
1. STAIR 3 SHOWN. FRAMING AT STAIR 2 IS MIRROR IMAGE.
2. LOWER LEVEL FRAMEWORK SHOWN. UPPER LEVEL IS IDENTICAL.

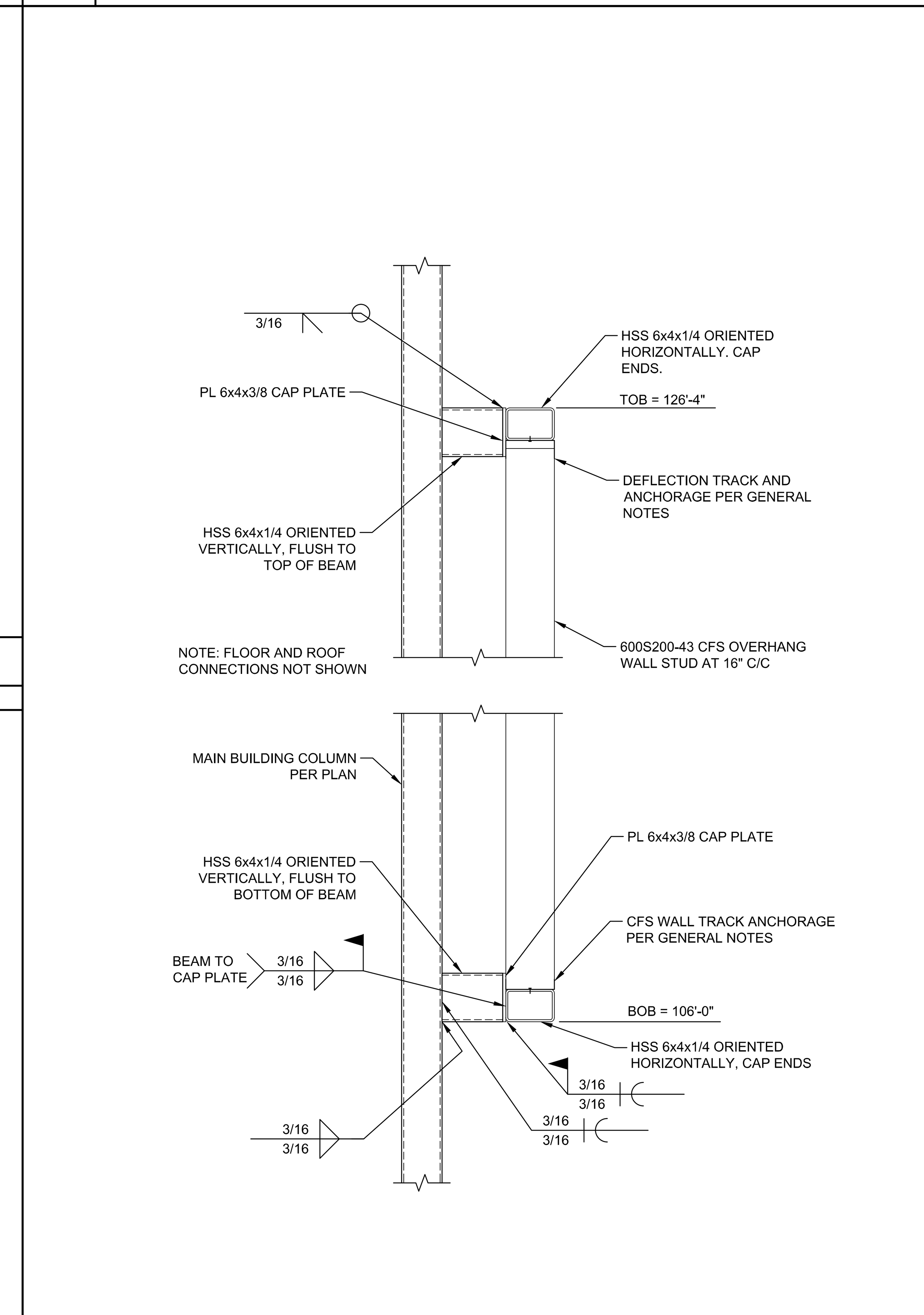
A1 DETAIL
3/4" = 1'-0" REF: S1.11, S1.12



A4 DETAIL
1" = 1'-0" REF: S1.11, S1.12



A7 DETAIL
1/4" = 1'-0" REF: S1.11



A10 DETAIL
1" = 1'-0" REF: S1.11

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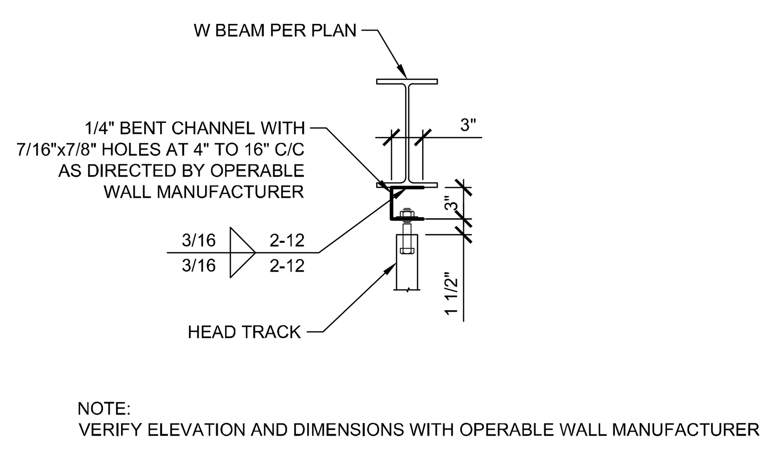
CAD FILE: 9175OOS512.dwg

2023.12.18 17:05:41-08'00'

PASCO SCHOOL DISTRICT ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET PASCO, WASHINGTON 99301

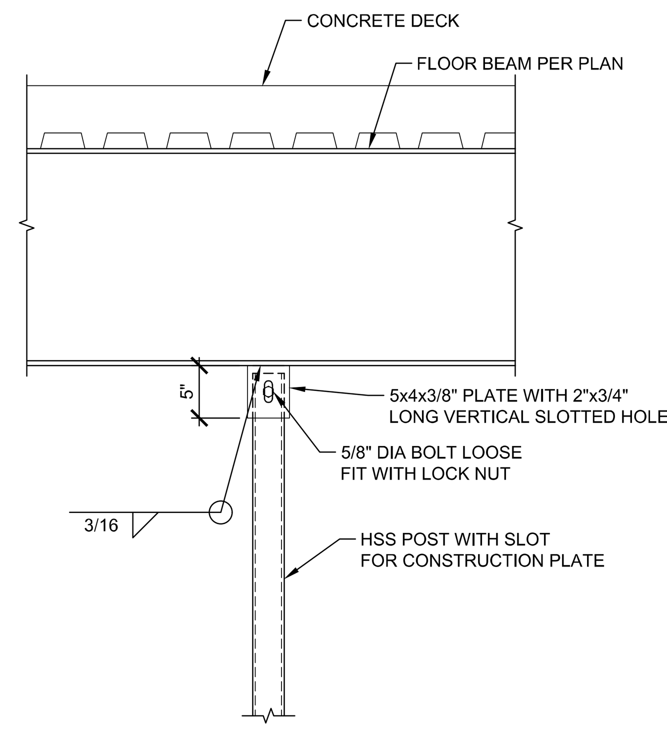
DATE: 12/18/2023
SHEET NAME: **SECTIONS AND DETAILS**
SHEET: **S5.12**

G1 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S1.21, S2.51

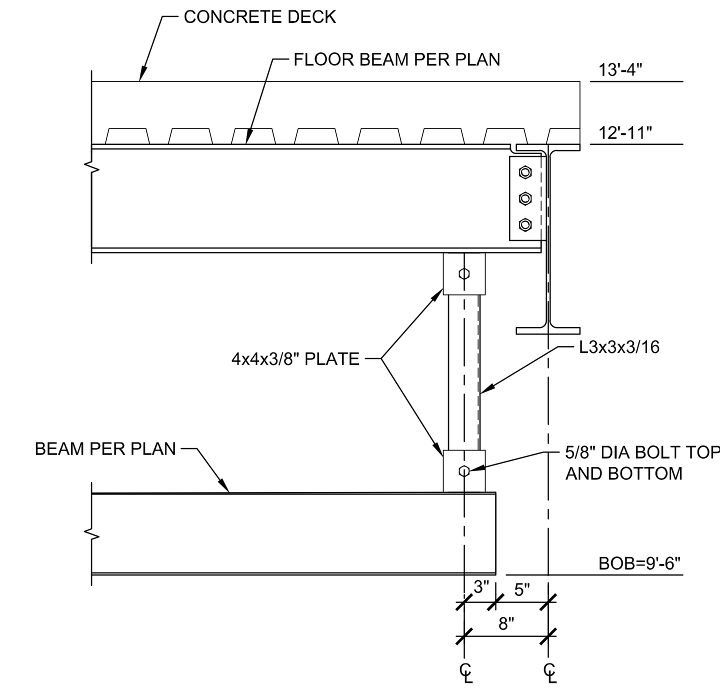


NOTE:
VERIFY ELEVATION AND DIMENSIONS WITH OPERABLE WALL MANUFACTURER

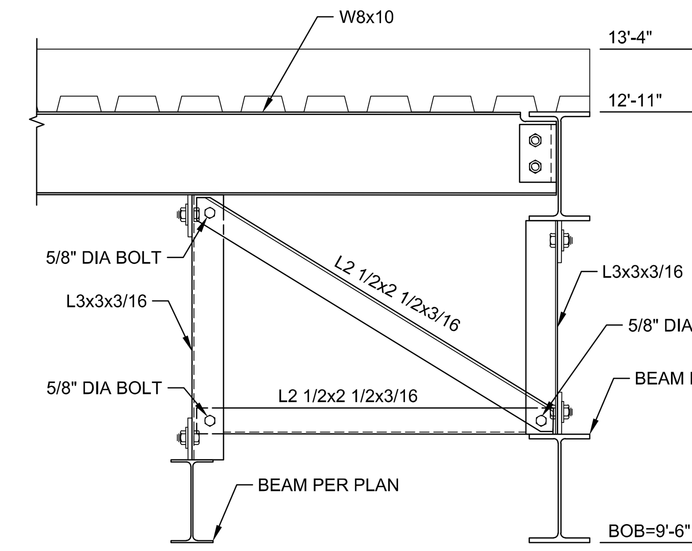
G4 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S2.51



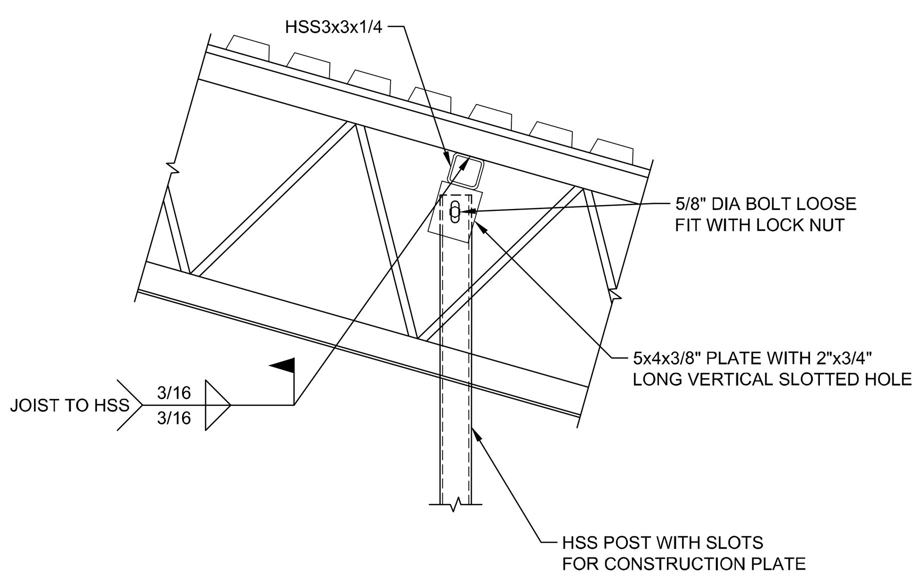
G7 DETAIL
1" = 1'-0" REF: S1.11, S1.12



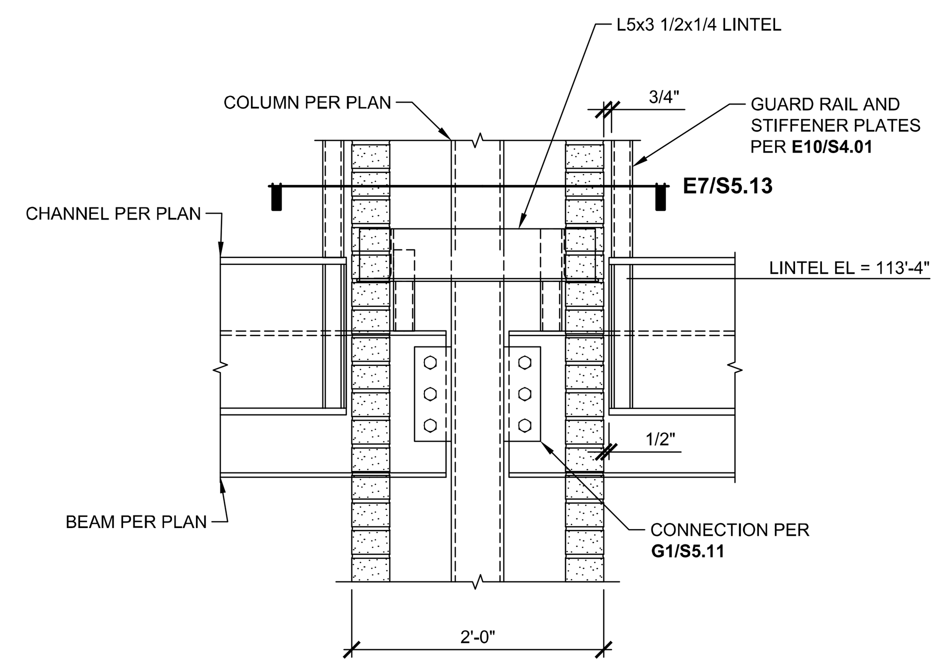
G10 DETAIL
1" = 1'-0" REF: S1.11



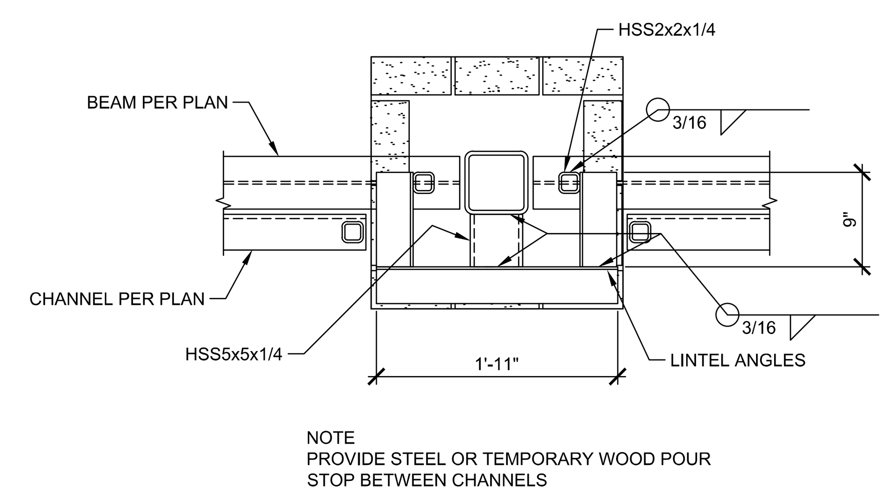
E1 DETAIL
1" = 1'-0" REF: S1.22



E4 DETAIL
1" = 1'-0" REF: S1.11

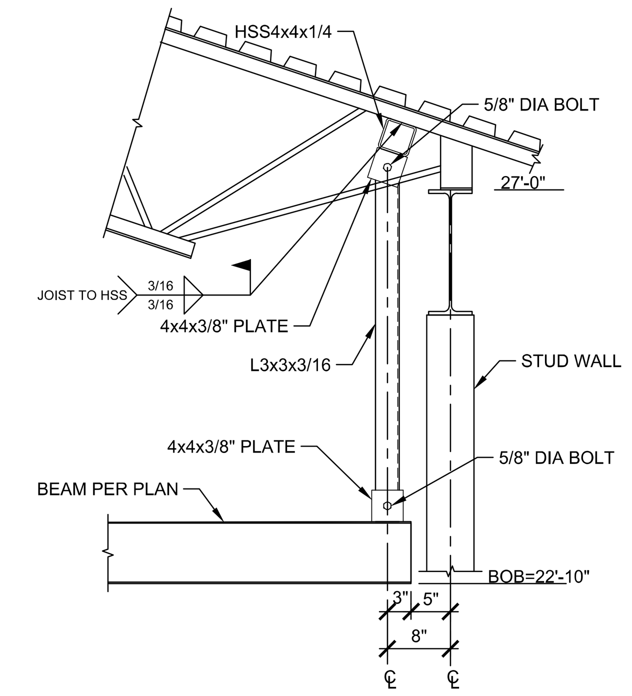


E7 DETAIL
1" = 1'-0" REF: S5.13

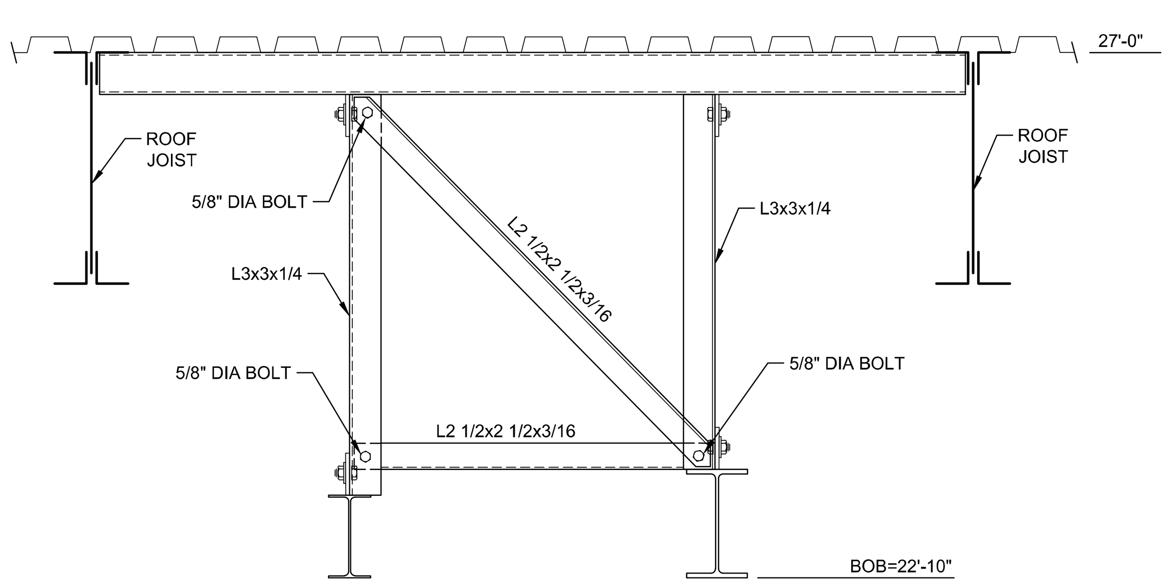


NOTE
PROVIDE STEEL OR TEMPORARY WOOD POUR STOP BETWEEN CHANNELS

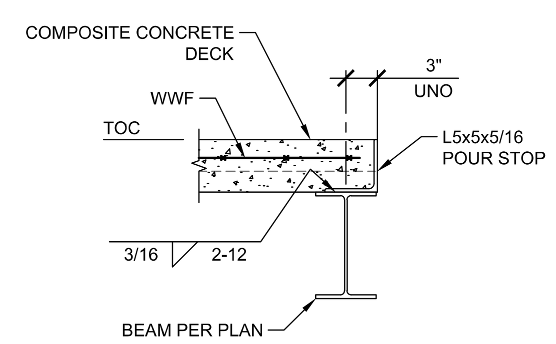
E10 DETAIL
3/4" = 1'-0" REF: S1.22



C1 DETAIL
1" = 1'-0" REF: S1.22



C4 DETAIL
1" = 1'-0" REF: S1.11, S1.12



C7 DETAIL
1" = 1'-0" REF: S1.11

C10 DETAIL
1" = 1'-0" REF: S1.11, S1.12

A1 DETAIL
############REF: S1.11

A4 DETAIL
############REF: S1.11

A7 DETAIL
1 1/2" = 1'-0" REF: S1.11

A10 DETAIL
1" = 1'-0" REF: S1.12, S1.22

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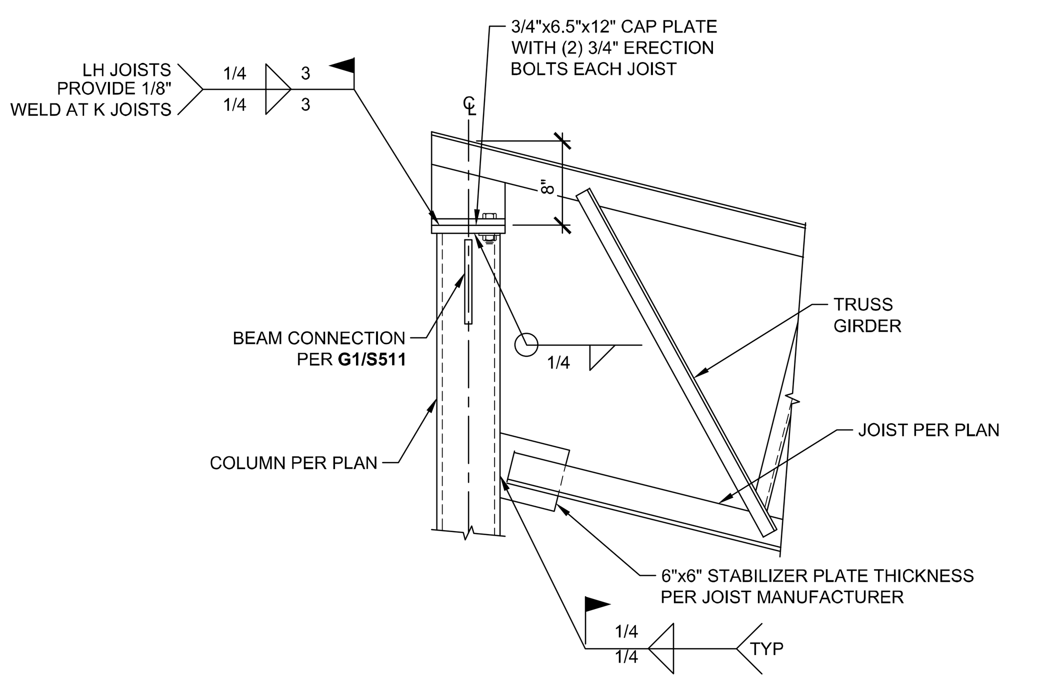
2023.12.18 17:05:55-08'00'

PASCO SCHOOL DISTRICT
ORION HIGH SCHOOL
1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

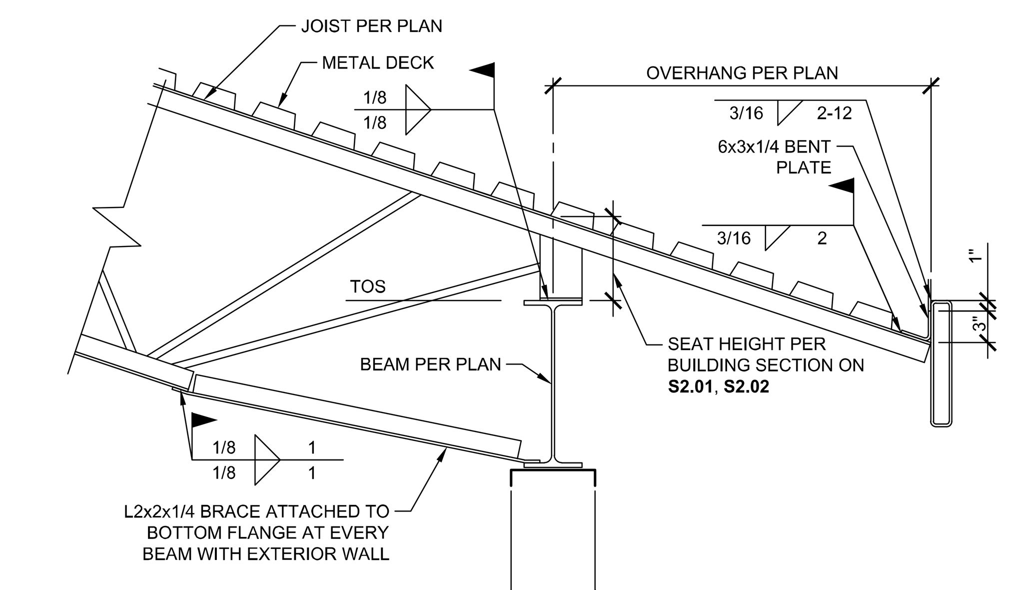
SHEET NAME
SECTIONS AND DETAILS

SHEET
S5.13



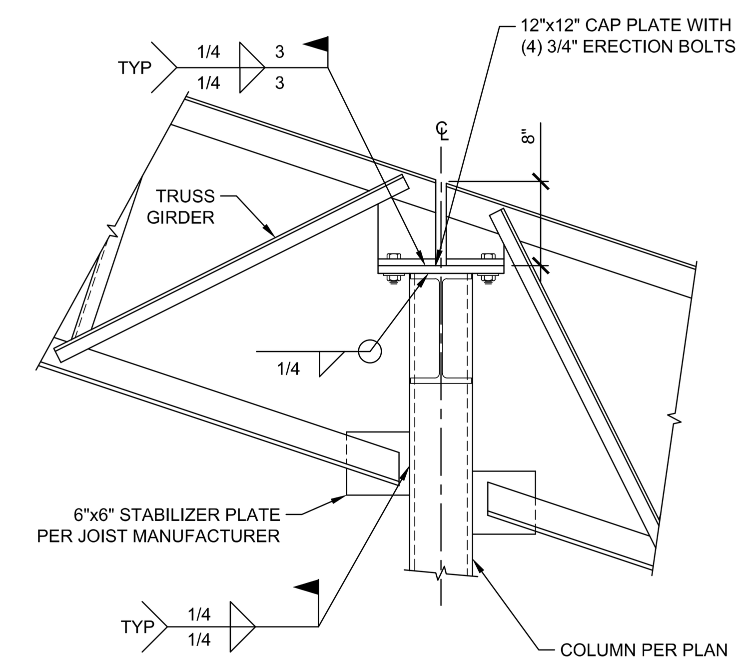
NOTE:
1. JOIST SLOPE AND DIRECTION MAY VERY
2. FOR OVERHANG SEE G4/S5.21

G1 DETAIL
1" = 1'-0" REF: S1.21, S1.22

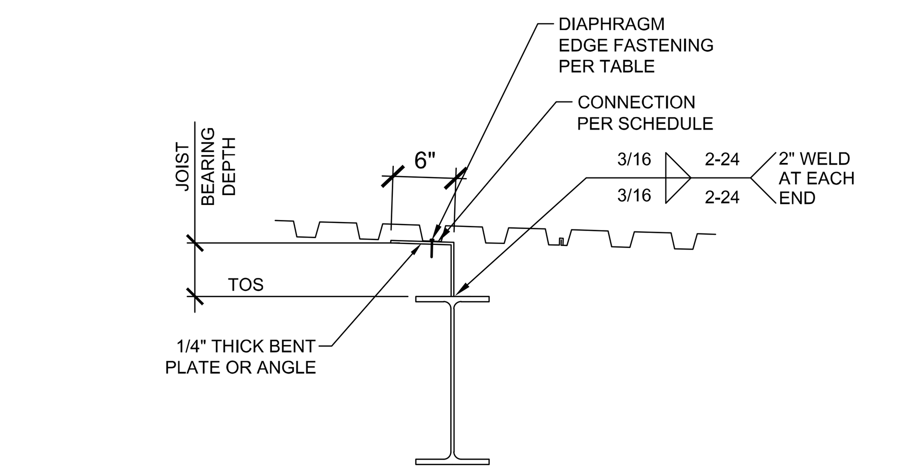


NOTE:
1. PROVIDE DECK TRANSFER CONNECTION BETWEEN JOISTS PER G10/S512.
2. JOIST SLOPE AND DIRECTION MAY VERY.

G4 DETAIL
1" = 1'-0" REF: S1.11, S1.21, S1.22, S5.21

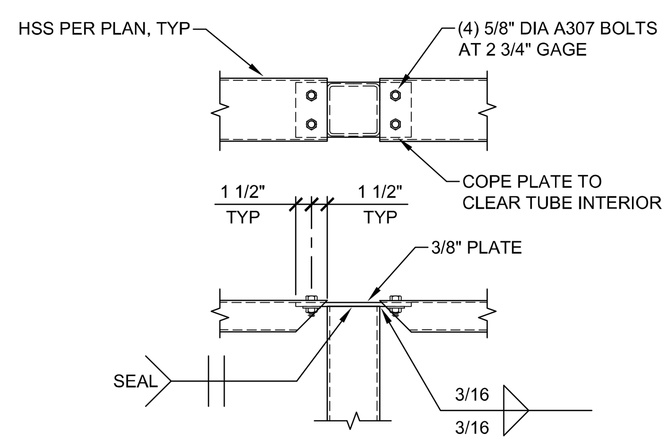


G7 DETAIL
1" = 1'-0" REF: S1.11, S1.21, S1.22

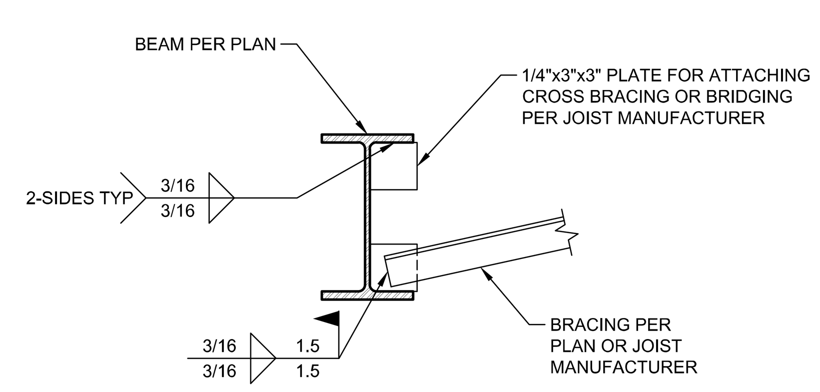


NOTE:
1. PROVIDE 1'-0" GAP BETWEEN BENT PLATES AT JOIST LOCATIONS (6" FROM CENTERLINE OF JOIST EACH SIDE)
2. DECK SLOPE VARIES.

G10 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S1.21, S1.22, S1.23

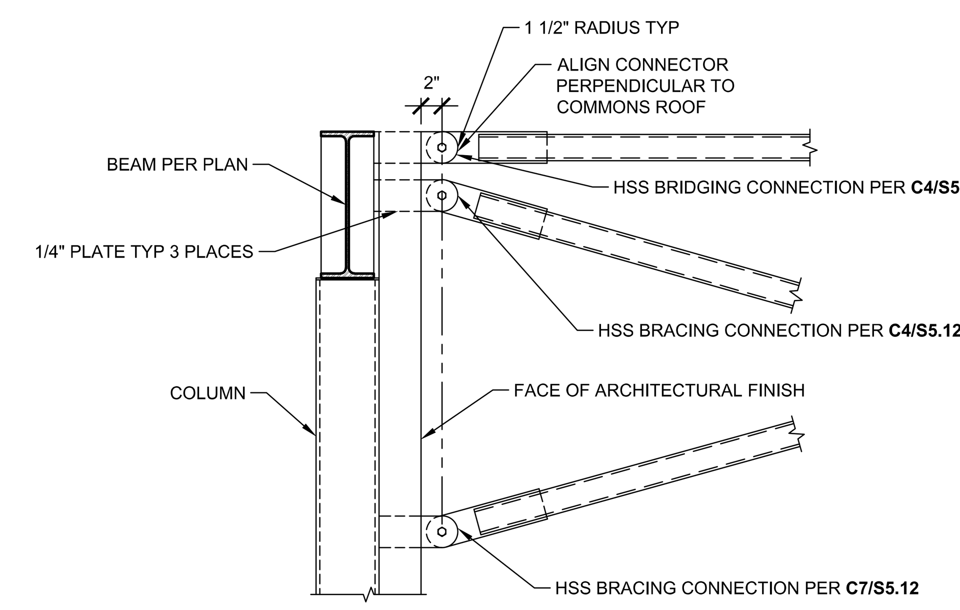


E1 DETAIL
1" = 1'-0" REF: S1.21

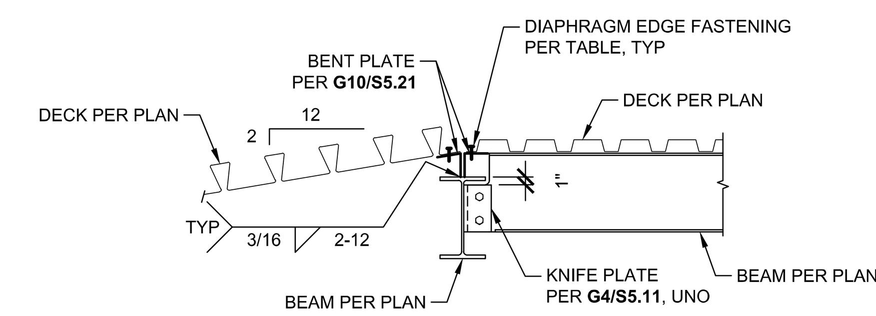


NOTE:
LOCATE PER JOIST MANUFACTURER.

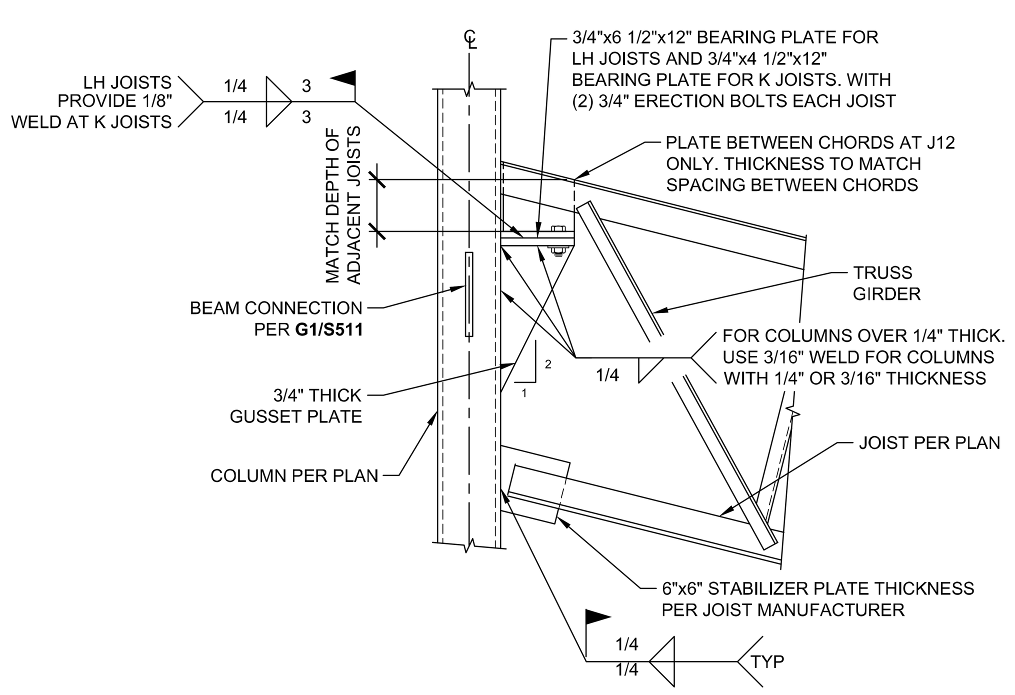
E4 DETAIL
1-1/2" = 1'-0" REF: S1.11, S1.21, S1.22



E7 DETAIL
1" = 1'-0" REF: S1.23

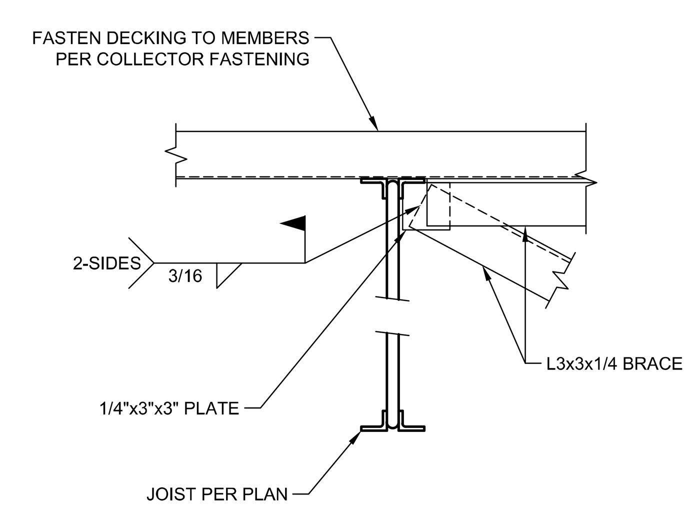


E10 DETAIL
3/4" = 1'-0" REF: S1.21, S1.23

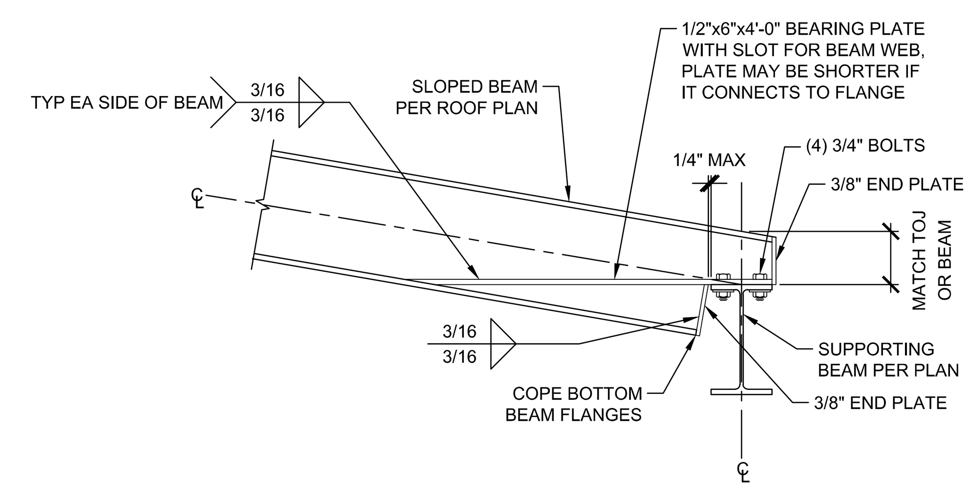


NOTE:
1. JOIST SLOPE AND DIRECTION MAY VERY
2. FOR OVERHANG SEE G4/S5.21

C1 DETAIL
1" = 1'-0" REF: S1.21, S1.22

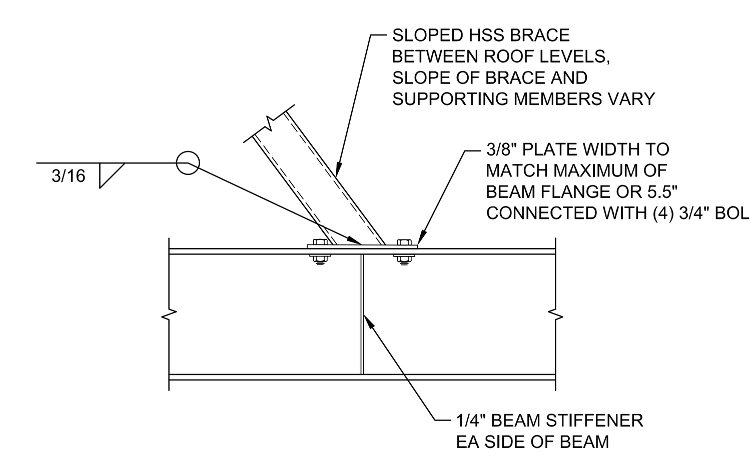


C4 DETAIL
1-1/2" = 1'-0" REF: S1.21, S1.22



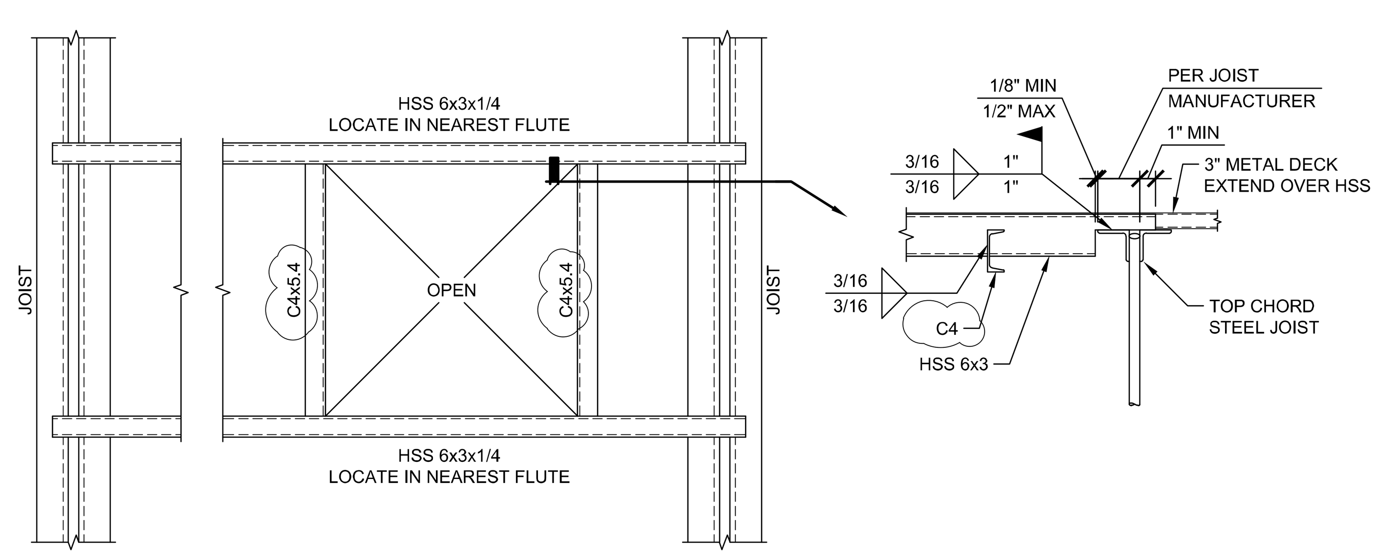
NOTE:
BEAM MAY SLOPE AND DIRECTION MAY VARY

C7 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S1.21, S1.22, S1.23

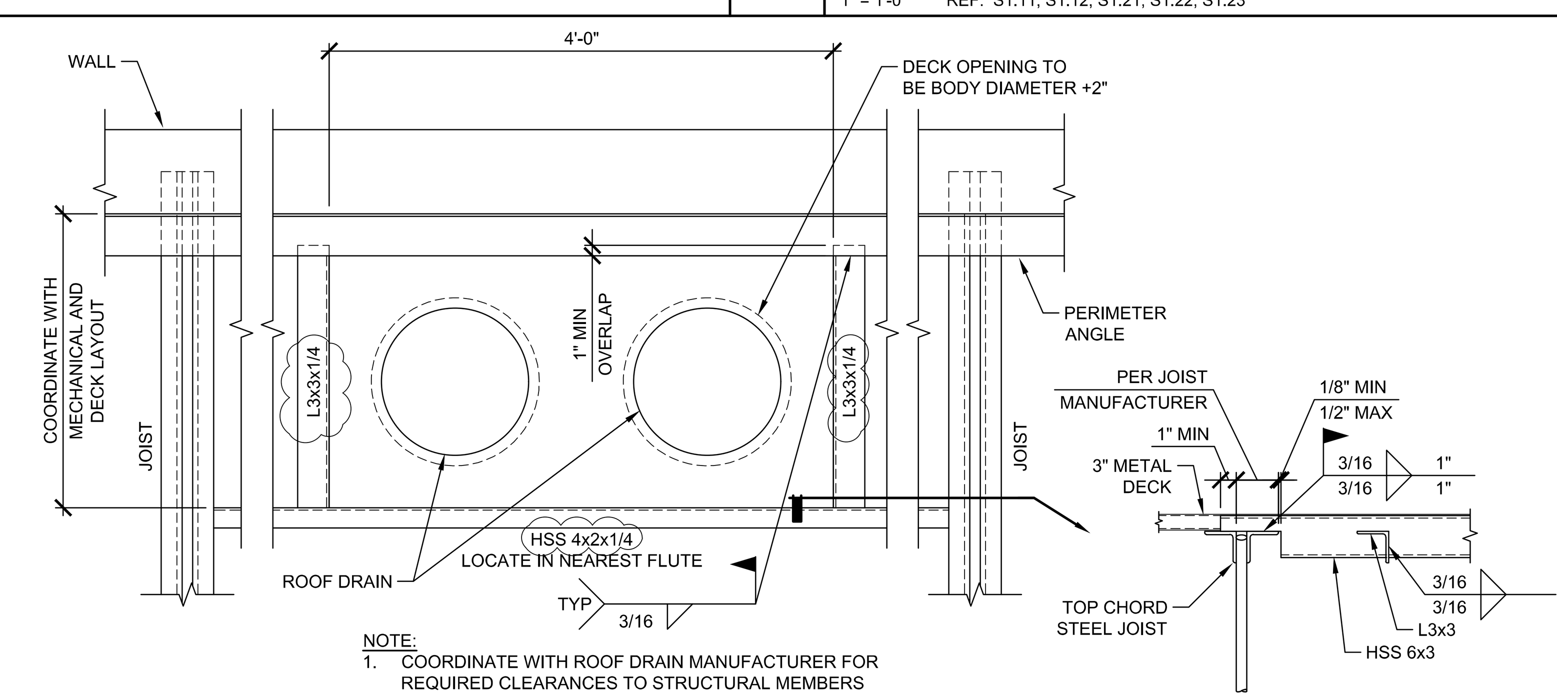


NOTE:
BRACE MAY ATTACH TO THE TOP OR BOTTOM OF THE BEAM.

C10 DETAIL
1" = 1'-0" REF: S1.11, S1.12, S1.21, S1.22, S1.23



A1 DETAIL
1" = 1'-0" REF: S1.11, S1.21, S1.23



NOTE:
1. COORDINATE WITH ROOF DRAIN MANUFACTURER FOR REQUIRED CLEARANCES TO STRUCTURAL MEMBERS
2. AT SIM, ROOF DRAIN TO BE PLACED BETWEEN BEAMS PER PLAN. ALL MEMBERS TO MAINTAIN TOB PER PLAN. PROVIDE GUSSET PLATE WITH (2) 1/2" DIA BOLTS WITH 2" GAGE TO CONNECT L3x3 TO BEAM PER PLAN.

A5 DETAIL
1" = 1'-0" REF: S1.21, S1.22, S1.23

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2023.12.18 17:06:11-08'00'

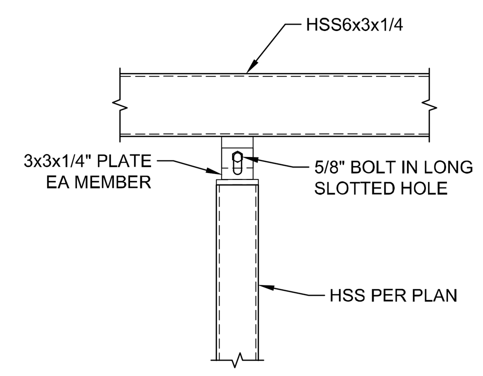
PASCO SCHOOL DISTRICT ORION HIGH SCHOOL

1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
12/18/2023

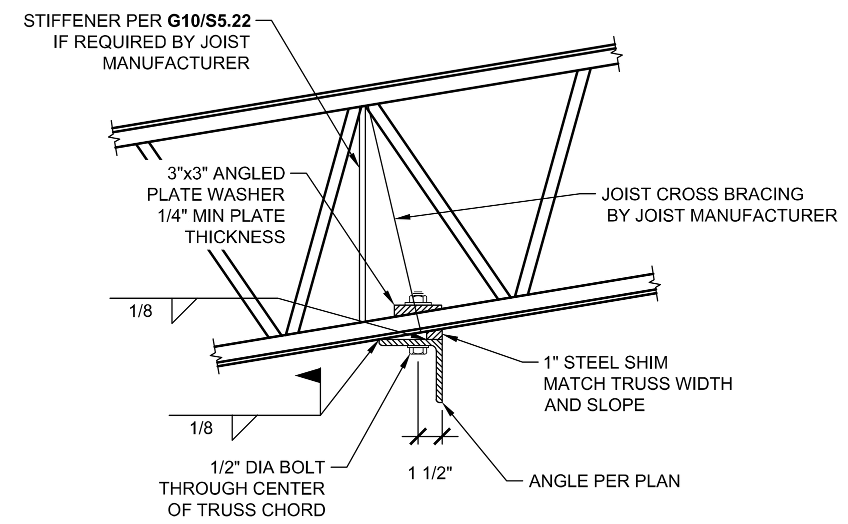
SHEET NAME
SECTIONS AND DETAILS

SHEET
S5.21



G1 DETAIL

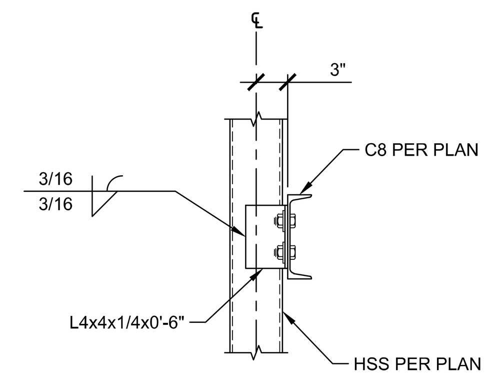
1" = 1'-0" REF: S1.11



NOTES:
1. MECHANICAL CONTRACTOR TO DRILL HOLE THROUGH HORIZONTAL OR VERTICAL LEG TO ATTACH MECHANICAL UNIT. DO NOT CLAMP TO EDGE OF ANGLE.
2. CONTRACTOR TO PROVIDE BRACED SUPPORT FROM THE SUPPORT FRAME TO THE JOISTS.

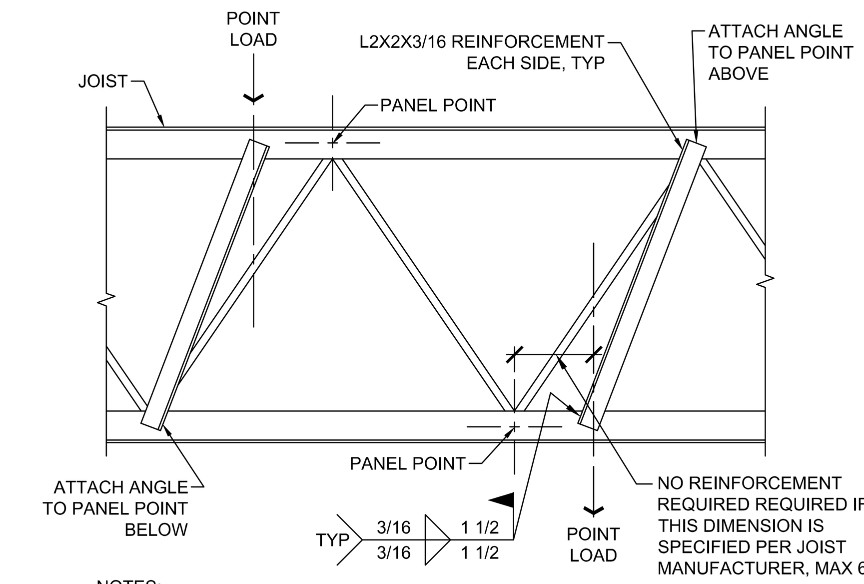
G4 DETAIL

1-1/2" = 1'-0" REF: S1.11



G7 DETAIL

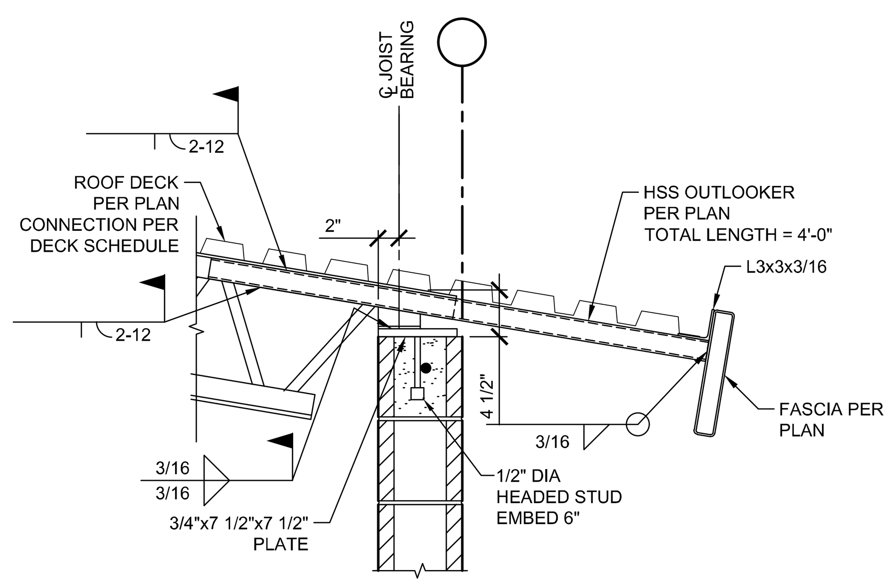
1" = 1'-0" REF: S1.11



NOTES:
1. IF THE TOTAL WEIGHT OF ALL POINT LOADS BETWEEN PANEL POINTS IS LESS THAN 100 LBS, THEN NO ANGLE REINFORCEMENT IS REQUIRED.

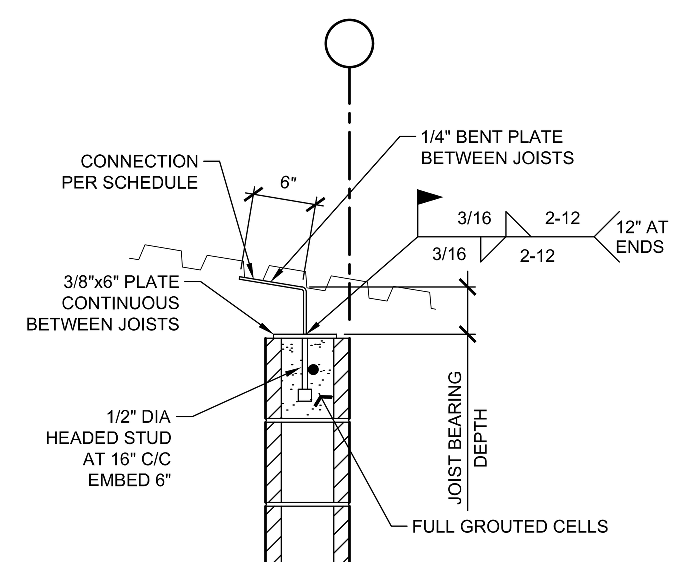
G10 DETAIL

1" = 1'-0" REF: S1.11, S1.21, S1.22, S1.23, S5.22



E1 DETAIL

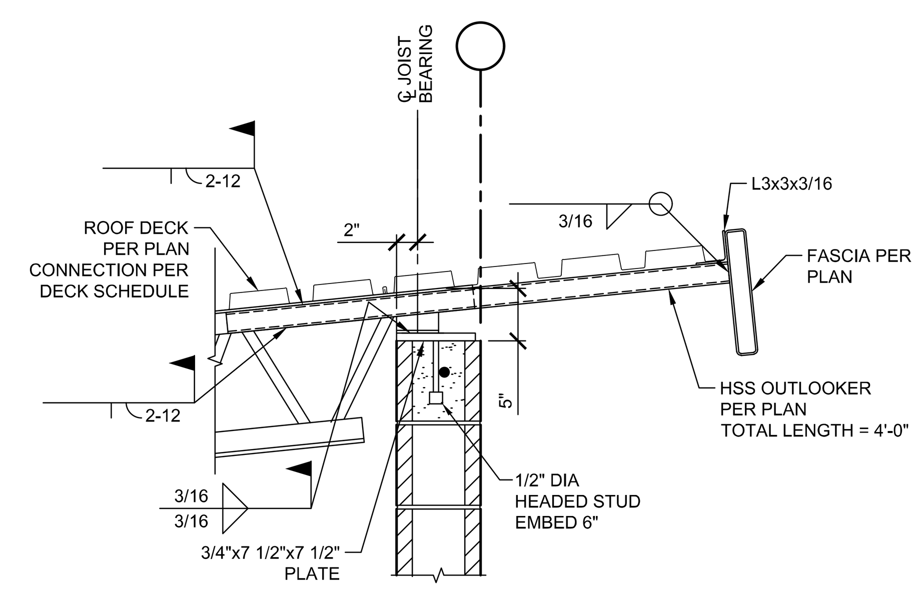
1" = 1'-0" REF: S1.51



NOTES:
1. METAL DECK LAYOUT SHALL BE ADJUSTED TO ENSURE CONTACT BETWEEN BENT PLATE AND METAL DECK.
2. **AT SIM**: BENT PLATE SLOPED DOWN TO MATCH ROOF SLOPE.

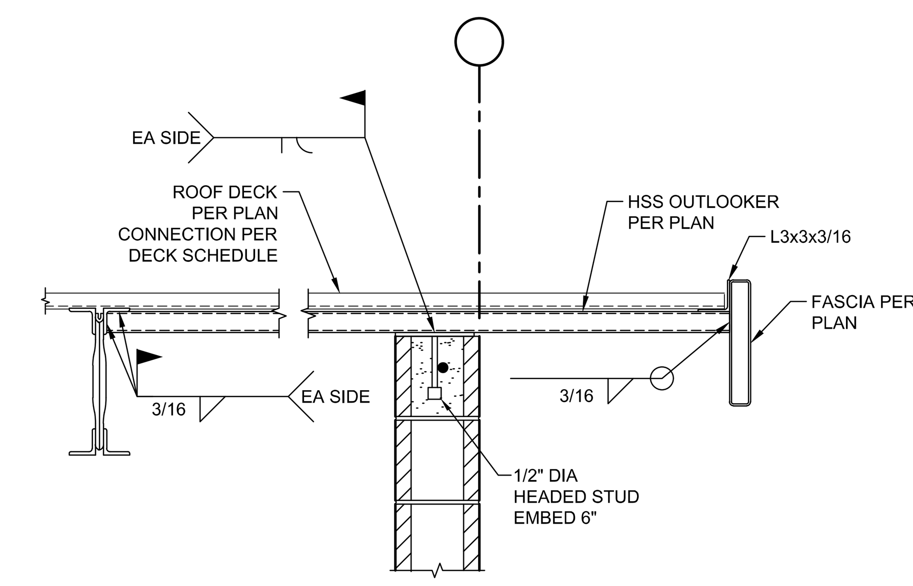
E4 DETAIL

1" = 1'-0" REF: S1.51



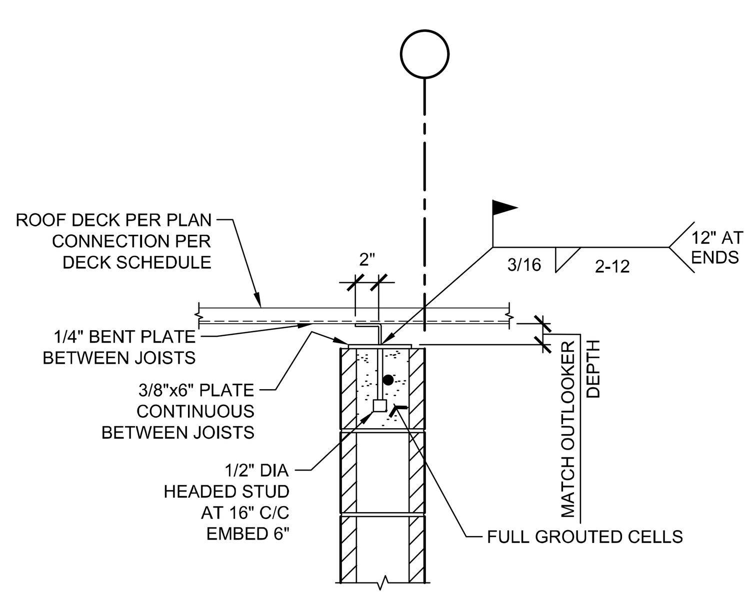
E7 DETAIL

1" = 1'-0" REF: S1.51



E10 DETAIL

1" = 1'-0" REF: S1.51



C1 DETAIL

1" = 1'-0" REF: S1.51

C4 DETAIL

3/4" = 1'-0" REF: S1.11

C7 DETAIL

3/4" = 1'-0" REF: S1.11

C10 DETAIL

3/4" = 1'-0" REF: S1.11

A1 DETAIL

3/4" = 1'-0" REF: S1.11

A4 DETAIL

3/4" = 1'-0" REF: S1.11

A7 DETAIL

3/4" = 1'-0" REF: S1.11

A10 DETAIL

3/4" = 1'-0" REF: S1.11

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1815 EAST SALT LAKE STREET
PASCO, WASHINGTON 99301

DATE
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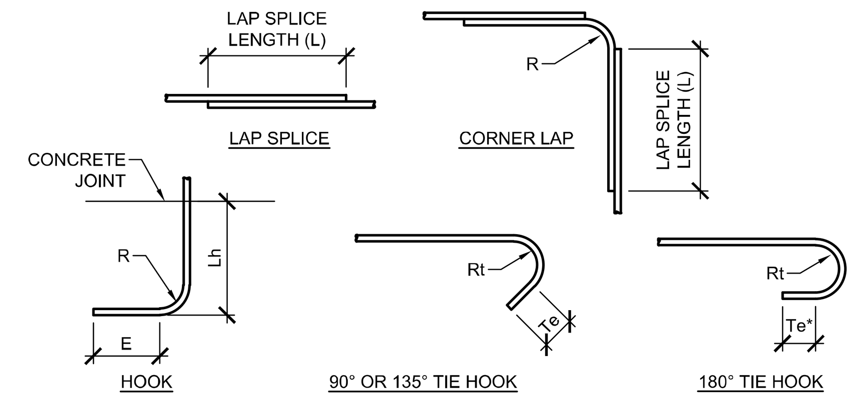
SHEET NAME
SECTIONS AND DETAILS

SHEET
S5.22

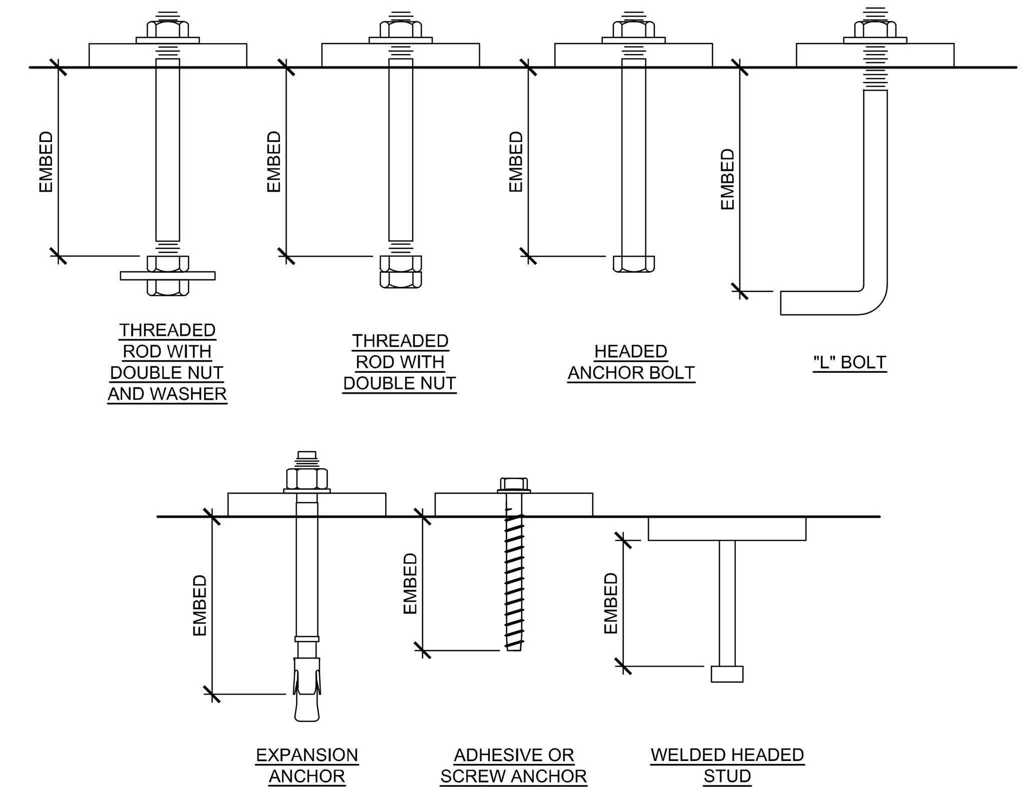


BAR SIZE	LAP SPLICES	CORNERS AND HOOKS			TIES		
	$L^{1,2}$	R^{1}	$Lh^{1,3}$	E^{1}	Rt^{1}	Te^{1}	Te^{*1}
#3	17"	1 1/8"	6 5/8"	4 1/2"	3/4"	3"	2 1/2"
#4	23"	1 1/2"	8 7/8"	6"	1"	3"	2 1/2"
#5	29"	1 7/8"	11"	7 1/2"	1 1/4"	3 3/4"	2 1/2"
#6	42"	2 1/4"	13 1/4"	9"	2 1/4"	9"	3"
#7	71"	2 5/8"	19 1/4"	10 1/2"	2 5/8"	10 1/2"	3 1/2"
#8	93"	3"	22"	12"	3"	12"	4"

1. LENGTHS ARE BASED ON ACI 318-14 FOR f'c = 3000 psi.
2. LENGTHS ARE BASED ON CLASS B TENSION SPLICES, STAGGERING OF SPLICES IS NOT REQUIRED.
3. Lh = EMBEDMENT REQUIRED FOR TENSION HOOKS

G1 CONCRETE REINFORCING BAR SCHEDULE

NTS



G4 CONCRETE ANCHOR BOLT EMBEDMENT

NTS

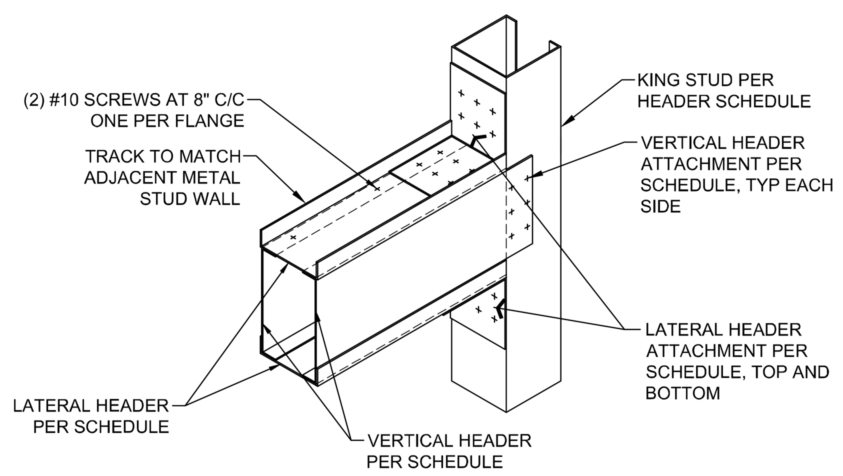
DRAWING MARK	DECK TYPE	GAGE	SIDE LAP CONNECTION	CONNECTION TO SUPPORTING MEMBERS PERPENDICULAR TO DECK FLUTES (SEE NOTE 1)	CONNECTION TO SUPPORTING MEMBERS PARALLEL TO DECK FLUTES
TYPE I	1 1/2" VERCO PLB-36 FORMLOK	20 GA 50 KSI	VERCO PUNCHLOCK II (VSC2) CONNECTIONS AT 36" C/C	HILTI X-ENP19 PAF 36/4 PATTERN	HILTI X-ENP19 PAF 19" C/C
TYPE II	1 1/2" VERCO PLB-36	20 GA 50 KSI	VERCO PUNCHLOCK II (VSC2) CONNECTIONS AT 36" C/C	HILTI X-HSN24 PAF FOR <0.25 THICKNESS OR X-ENP19 PAF FOR 0.25 AND THICKER 36/4 PATTERN	HILTI X-HSN24 PAF FOR <0.25 THICKNESS OR X-ENP19 PAF FOR 0.25 AND THICKER 19" C/C
TYPE III	3.5" EPIC 3.5DA DOVETAIL	18 GA 40 KSI	#10 SCREWS AT 36" C/C	X-ENP19 PAF 24/4/3 PATTERN	X-ENP19 PAF FOR 0.25 AND THICKER 28" C/C

METAL DECK NOTES:
1. VSC2 = VERCO SIDELAP CONNECTION 2, USING PUNCHLOCK II TOOL.
2. HILTI FASTENERS SHALL BE X-EDNK22 FOR BASE METAL THICKNESS BETWEEN 1/8" AND 1/4", AND X-HSN 25 FOR BASE METAL BETWEEN 1/4" AND 3/8".

G7 METAL DECK SCHEDULE

NTS

G10



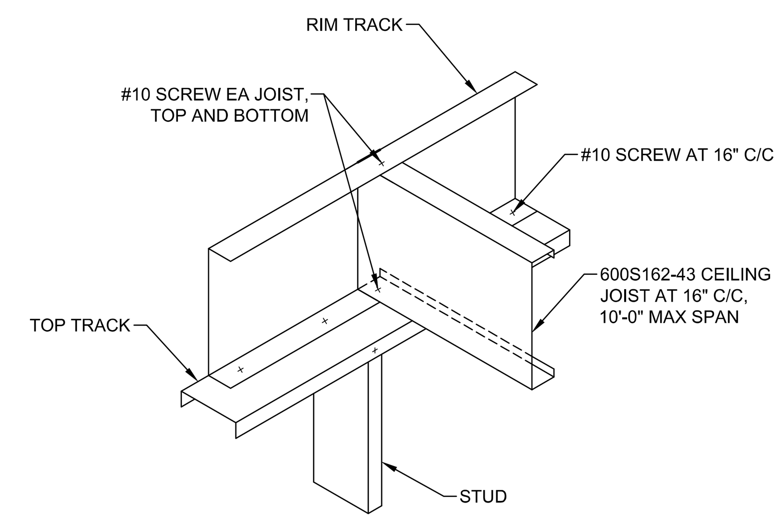
COLD-FORMED METAL HEADER SCHEDULE

	KING STUD			VERTICAL HEADER		LATERAL HEADER	
LOCATION	SECTION	TOP CONNECTION [1]	BOTTOM CONNECTION [1]	SECTION	END CONNECTION	SECTION	END CONNECTION
EXTERIOR, UP TO 8 FT WIDE	(1) 600S162-54	SIMPSON SCW5.5[2] WITH (2) #14 SCREWS	SIMPSON FCB43.5[3] WITH (4) #14 SCREWS	(2) 600S162-43, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T125-43, BOXED	L3x3x43 MIL WITH (3) #10 SCREWS EACH LEG
EXTERIOR, UP TO 12 FT WIDE	(1) 600S200-54	SIMPSON SCW5.5[2] WITH (2) #14 SCREWS	SIMPSON FCB43.5[3] WITH (4) #14 SCREWS	(2) 600S162-43, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T125-54, BOXED	L3x3x54 MIL WITH (3) #10 SCREWS EACH LEG
EXTERIOR, UP TO 18 FT WIDE	(1) 600S350-54	SIMPSON SCW5.5[2] WITH (3) #14 SCREWS	SIMPSON FCB43.5[3] WITH (4) #14 SCREWS	(2) 600S162-43, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T350-68, BOXED	L6x6x68 MIL WITH (6) #10 SCREWS EACH LEG
INTERIOR, UP TO 8 FT WIDE	(1) 600S162-43	(1) Ø0.157", 1" EMBED SIMPSON PDPA/PDPAT	(1) Ø0.157", 1" EMBED SIMPSON PDPA/PDPAT	(2) 600S162-43, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T125-43, BOXED	NOT REQUIRED
INTERIOR, UP TO 12 FT WIDE	(1) 600S250-68	(1) Ø0.157", SIMPSON PDPA/PDPAT-62K	(1) Ø0.157", 1" EMBED SIMPSON PDPA/PDPAT	(2) 600S162-54, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T125-43, BOXED	L3x3x43 MIL WITH (3) #10 SCREWS EACH LEG
INTERIOR, UP TO 16 FT WIDE	(1) 600S350-68	(2) Ø0.157", SIMPSON PDPA/PDPAT-62K	(1) Ø0.157", 1" EMBED SIMPSON PDPA/PDPAT	(2) 600S162-54, BOXED	(6) #10 SCREWS EACH SIDE	(2) 600T125-54, BOXED	L3x3x54 MIL WITH (3) #10 SCREWS EACH LEG
INTERIOR, UP TO 20 FT WIDE	(1) 600S350-54	(2) Ø0.157", SIMPSON PDPA/PDPAT-62K	(1) Ø0.157", 1" EMBED SIMPSON PDPA/PDPAT	(2) 600S162-54, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T125-54, BOXED	L3x3x54 MIL WITH (3) #10 SCREWS EACH LEG
EXTERIOR, OVERHANG WALL OPENINGS[4]	(1) 600S350-68	SIMPSON SCW5.5[2] WITH (3) #14 SCREWS	(3) Ø0.157", SIMPSON PDPA/PDPAT-62K	(2) 600S162-43, BOXED	(3) #10 SCREWS EACH SIDE	(2) 600T125-54, BOXED	L3x3x54 MIL WITH (3) #10 SCREWS EACH LEG

COLD-FORMED METAL HEADER NOTES:
1. WHERE NO CONNECTOR IS LISTED, TYPICAL CONNECTION FROM KING STUD TO TRACK IS USED. PROVIDE LISTED ANCHORAGE WITHIN 2" OF KING STUD WEB.
2. FOR OPENINGS UP TO 12 FT, ATTACH TO STEEL ABOVE USING (2) Ø0.157" PDPA/PDPAT KNURLED FASTENERS. FOR OPENINGS UP TO 18 FT, ATTACH TO STEEL ABOVE USING (4) Ø0.157" PDPA/PDPAT KNURLED FASTENERS.
3. FOR OPENINGS UP TO 8 FT, ATTACH TO CONCRETE USING (2) Ø0.25x1.75" TITEN TURBO SCREWS.FOR OPENINGS UP TO 18 FT, ATTACH TO CONCRETE USING (4) Ø0.25x1.75" TITEN TURBO SCREWS.
4. TYPICAL FULL HEIGHT WALL STUDS AT OVERHANG WALL AREA SHALL BE 600S200-43 @ 16" C/C.

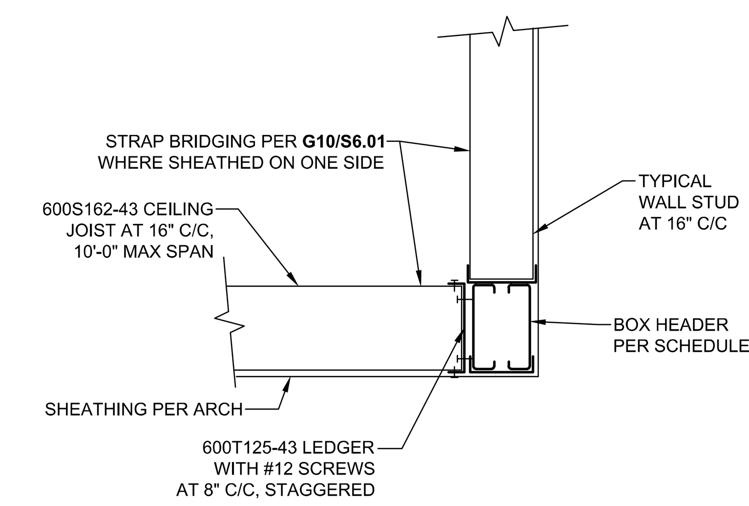
C1 COLD-FORMED METAL HEADER SCHEDULE

NTS



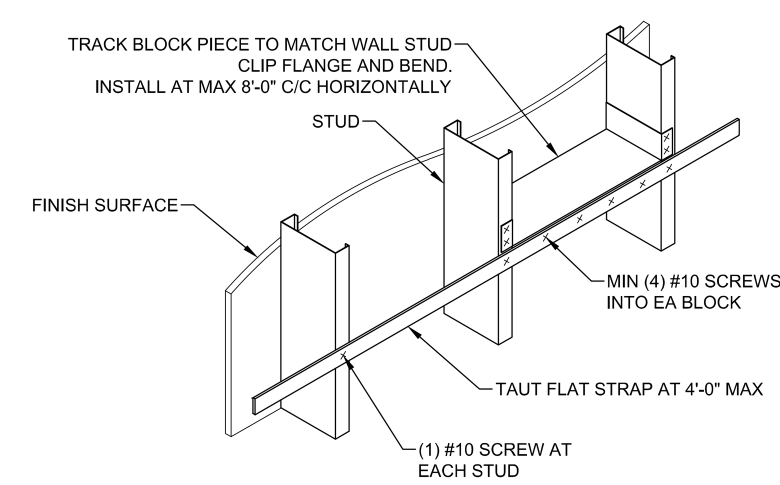
E7 METAL STUD DETAIL

NTS



E10 METAL STUD DETAIL

NTS



NOTE: USE WHEN ONLY ONE SIDE OF WALL OR CEILING IS SHEATHED.

C7 METAL STUD DETAIL

NTS

A1

NTS

A7

NTS

A10

NTS

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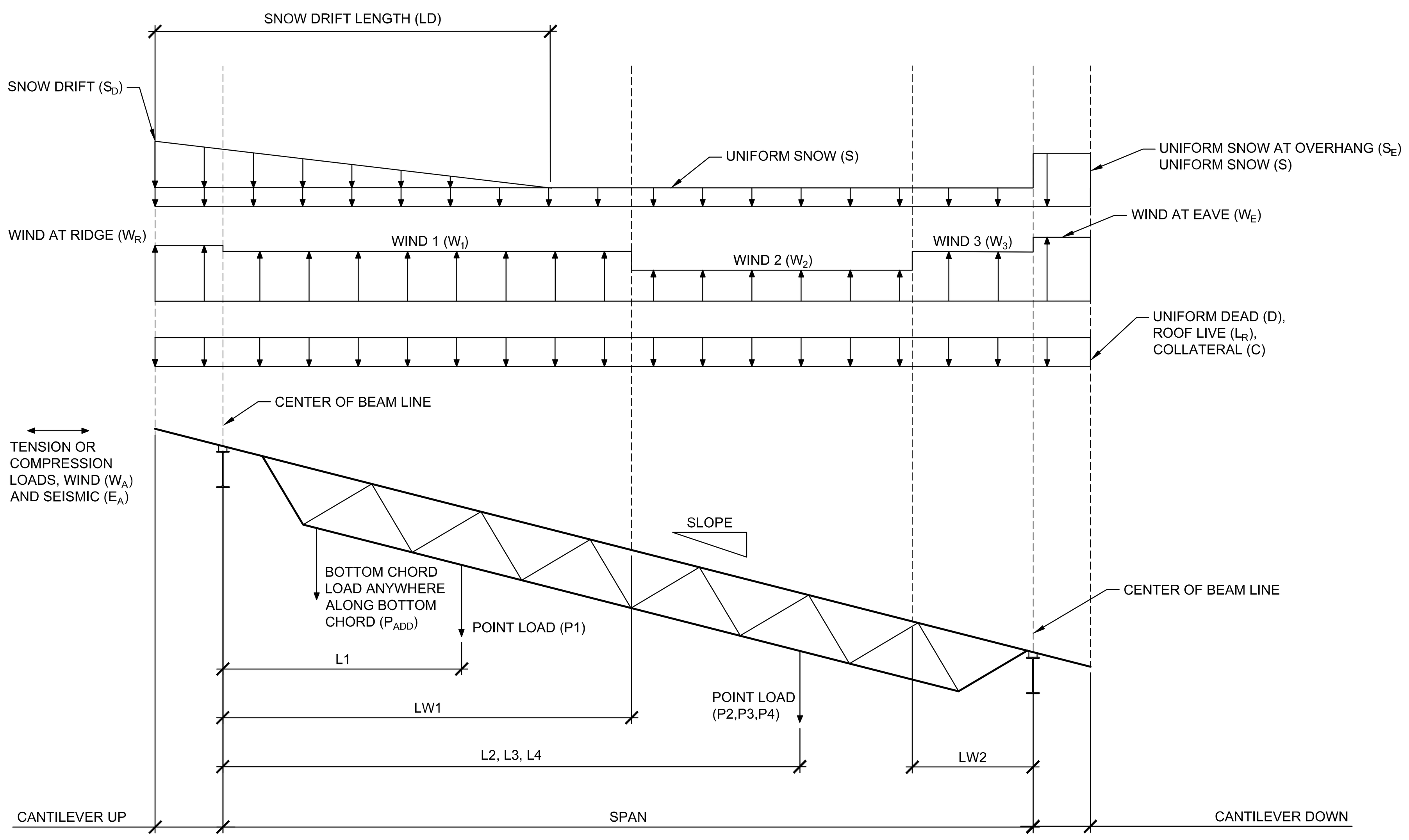

			CANTILEVER [4]		UNIFORM LOADS [9]			SNOW LOADS [8]				WIND DOWN [7]	WIND UPLIFT LOADS [7]							P1[10]		P2[10]		P3[10]		P4[10]		P5[10]		TENSION OR COMPRESSION	
JOIST NUMBER	JOIST SHAPE	SPAN[3]	UP	DOWN	D[1]	L_r	C[2]	S	S_D	L_D	S_E	W_{in}	W_R	W_1	LW_1	W_2	W_3	LW_3	W_E	DEAD LOAD	L_1	DEAD LOAD	L_2	DEAD LOAD	L_3	DEAD LOAD	L_4	DEAD LOAD	L_5	W_A	E_A
		ft	ft	ft	plf	plf	plf	plf	plf	ft	plf	plf	plf	plf	ft	plf	plf	ft	plf	lbf	ft	lbf	ft	lbf	ft	lbf	ft	lbf	ft	kip	kip
J1	32LH	36.083	0	2.833	60.0	150.0	60.0	165.0	228.1	7.33	330.0	120.0	-	-265.1	10.52	-155.7	-155.7	7.69	-261.6	-	-	-	-	-	-	-	-	-	-	-	-
J2	32LH	36.083	0	2.833	39.7	99.2	39.7	109.1	150.8	7.33	218.2	79.3	-	-200.1	10.52	-115.31	-115.31	7.69	-254.37	-	-	-	-	-	-	-	-	-	-	-	-
J3	32LH	36.083	0	2.833	58.7	146.7	58.7	161.3	223.0	7.33	322.7	117.3	-	-201.25	10.52	-115.97	-115.97	7.69	-255.82	-	-	-	-	-	-	-	-	-	-	-	-
J4	32LH	36.083	0	2.833	63.0	157.5	63.0	173.3	239.5	7.33	346.5	126.0	-	-216.11	10.52	-124.54	-124.54	7.69	-274.72	-	-	-	-	-	-	-	-	-	-	-	-
J5	32LH	36.083	0	2.833	60.0	150.0	60.0	165.0	228.1	7.33	330.0	120.0	-	-205.82	10.52	-118.61	-118.61	7.69	-261.64	-	-	-	-	-	-	-	-	-	-	-	-
J6	32LH	36.083	0	2.833	62.0	155.0	62.0	170.5	235.7	7.33	341.0	124.0	-	-212.68	10.52	-122.56	-122.56	7.69	-270.36	-	-	-	-	-	-	-	-	-	-	-	-
J7	32LH	36.083	0	2.833	45.3	113.3	45.3	124.7	172.3	7.33	249.3	90.7	-	-210.4	10.52	-121.24	-121.24	7.69	-267.45	-	-	-	-	-	-	-	-	-	-	-	-
J8	32LH	36.083	0	2.833	52.3	130.8	52.3	143.9	198.9	7.33	287.8	104.7	-	-178.38	10.52	-102.79	-102.79	7.69	-226.75	-	-	-	-	-	-	-	-	-	-	-	-
J9	32LH	36.083	0	2.833	61.3	153.3	61.3	168.7	233.1	7.33	337.3	122.7	-	-210.4	10.52	-121.24	-121.24	7.69	-267.45	-	-	-	-	-	-	-	-	-	-	-	-
J10	32LH	36.083	0	2.833	62.0	155.0	62.0	170.5	235.7	7.33	341.0	124.0	-	-212.68	10.52	-122.56	-122.56	7.69	-270.36	200	11'-10 1/2"	300	16'-9 1/2"	300	20'-7 1/2"	200	28'-9 1/2"	200	33'-8 1/2"	-	-
J11	32LH	36.083	0	2.833	62.0	155.0	62.0	170.5	235.7	7.33	341.0	124.0	-	-212.68	10.52	-122.56	-122.56	7.69	-270.36	200	11'-10 1/2"	200	16'-9 1/2"	150	28'-9 1/2"	150	33'-8 1/2"	-	-	-	-
J12	32LH	36.083	0	2.833	45.7	114.2	45.7	125.6	173.6	7.33	251.2	91.3	-	-156.65	10.52	-90.27	-90.27	7.69	-199.14	200	11'-10 1/2"	200	16'-9 1/2"	-	-	-	-	-	-	7.24	8.09
J13	32LH	36.083	2.25	2.833	50.0	125.0	50.0	137.5	-	-	275.0	100.0	-	-171.52	10.52	-98.84	-98.84	7.69	-218.03	200	11'-10 1/2"	200	16'-9 1/2"	-	-	-	-	-	-	-	-
J14	32LH	36.083	2.25	0	53.0	132.5	53.0	145.8	-	-	-	106.0	-	-181.81	10.52	-104.77	-104.77	-	-	200	11'-10 1/2"	200	16'-9 1/2"	-	-	-	-	-	-	16.08	27.57
J15	24LH	29.083	2.25	0	55.7	139.2	55.7	153.1	-	-	-	111.3	-	-191.0	10.52	-110.04	-110.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J16	18LH	22.167	2.25	0	56.3	140.8	56.3	154.9	-	-	-	112.7	-	-193.2	10.52	-111.4	-111.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J17	18LH	15.000	2.25	0	58.7	146.7	58.7	161.3	30.3	uniform	-	117.3	-	-201.3	10.52	-115.97	-115.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J18	10K	7.500	2.25	0	60.0	150.0	60.0	165.0	30.3	uniform	-	120.0	-	-205.8	7.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J19	32LH	36.083	0	2.833	64.0	160.0	64.0	176.0	243.3	7.33	352.0	128.0	-	-219.54	10.52	-126.52	-126.52	7.69	-279.08	-	-	-	-	-	-	-	-	-	-	-	-
J20	32LH	36.083	0	2.833	54.7	136.7	54.7	150.3	207.8	7.33	300.7	109.3	-	-187.53	10.52	-108.07	-108.07	7.69	-238.38	-	-	-	-	-	-	-	-	-	-	-	-
J21	32LH	36.083	0	0	36.7	91.7	36.7	100.8	225.5	7.33	-	73.3	-	-125.78	10.52	-72.48	-72.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J22	32LH	32.000	0	0	48.3	120.8	48.3	132.9	259.8	7.33	-	96.7	-	-165.8	10.52	-95.55	-95.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J23	20LH	24.000	0	0	64.0	160.0	64.0	176.0	273.7	7.33	-	128.0	-	-219.54	10.52	-126.52	-126.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J24	18LH	16.000	0	0	64.0	160.0	64.0	176.0	288.9	7.33	-	128.0	-	-219.54	10.52	-126.52	-126.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J25	10K	8.000	0	0	64.0	160.0	64.0	176.0	288.9	7.33	-	128.0	-	-219.54	8.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J26	32LH	33.083	0	2.833	48.0	120.0	48.0	132.0	-	-	264.0	96.0	-	-276.3	10.52	-234.4	-178.6	7.7	-209.3	-	-	-	-	-	-	-	-	-	-	-	-
J27	32LH	33.083	0	2.833	54.0	135.0	54.0	148.5	-	-	297.0	108.0	-	-310.8	10.52	-263.7	-200.9	7.69	-235.5	-	-	-	-	-	-	-	-	-	-	-	-
J28	32LH	33.083	0	2.833	60.3	150.8	60.3	165.9	-	-	331.8	120.7	-	-345.4	10.52	-293.0	-223.3	7.69	-261.7	-	-	-	-	-	-	-	-	-	-	-	-
J29	32LH	33.083	0	2.833	64.3	160.8	64.3	176.9	-	-	352.0	128.6	-	-370.3	10.52	-314.2	-239.4	7.69	-280.6	-	-	-	-	-	-	-	-	-	-	-	-
J30	32LH	33.083	0	2.833	62.0	155.0	62.0	170.5	-	-	352.0	124.0	-	-356.9	10.52	-302.8	-230.7	7.69	-270.4	-	-	-	-	-	-	-	-	-	-	-	-
J31	32LH	33.083	0	2.833	63.0	157.5	63.0	173.3	-	-	346.5	126.0	-	-362.6	10.52	-307.7	-234.4	7.69	-274.8	-	-	-	-	-	-	-	-	-	-	-	-
J32	32LH	33.083	0	2.833	60.0	150.0	60.0	165.0	-	-	330.0	120.0	-	-345.4	10.52	-293.0	-223.3	7.69	-261.7	-	-	-	-	-	-	-	-	-	-	-	-
J33	32LH	33.083	0	2.833	62.0	155.0	62.0	170.5	-	-	341.0	124.0	-	-356.9	10.52	-302.8	-230.7	7.69	-270.4	-	-	-	-	-	-	-	-	-	-	-	-
J34	18LH	21.333	2.25	2.833	58.3	145.8	58.3	160.4	-	-	352.0	116.6	-	-335.8	10.52	-284.9	-217.1	7.69	-254.4	-	-	-	-	-	-	-	-	-	-	-	-
J35	32LH	33.083	0	2.833	32.6	81.6	32.6	89.8	-	-	352.0	65.3	-	-188.0	10.52	-159.5	-121.6	7.69	-142.5	-	-	-	-	-	-	-	-	-	-	-	-
J36	32LH	33.083	0	2.833	64.0	160.0	64.0	176.0	-	-	352.0	128.0	-	-368.4	10.52	-312.6	-238.2	7.69	-279.1	-	-	-	-	-	-	-	-	-	-	-	-
J37	32LH	33.083	0	2.833	52.3	130.8	52.3	143.9	-	-	287.8	104.7	-	-278.2	10.52	-236.1	-179.9	7.69	-210.8	-	-	-	-	-	-	-	-	-	-	-	-
J38	32LH	33.083	0	2.833	21.3	53.3	21.3	58.7	-	-	267.7	42.7	-	-122.8	10.52	-104.2	-79.4	7.69	-93.0	-	-	-	-	-	-	-	-	-	-	-	-
J39	10K	10.5	2.25	0	64.0	160.0	144.0	176.0	-	-	-	128.0	-	-398.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J40	10K	10.5	2.25	0	51.0	127.6	114.8	140.4	-	-	-	102.1	-	-317.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J41	10K	10.5	2.25	0	64.0	160.0	144.0	176.0	-	-	-	128.0	-	-398.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J42	10K	10.5	2.25	0	60.0	150.0	135.0	165.0	-	-	-	120.0	-	-373.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J43	10K	10.5	2.25	0	46.6	116.6	104.9	128.3	-	-	-	93.3	-	-290.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J44	32LH	33.083	0	2.833	64.0	160.0	64.0	176.0	-	-	352.0	128.0	-	-368.4	10.52	-312.6	-238.2	7.69	-279.1	200	9'-10 1/2"	200	13'-9"	100	17'-5 1/2"	-	-	-	-	-	-
J51	24LH	24.5	7.83333	0	60.0	150.0	60.0	165.0	531.9	17.09	-	120.0	-120.0	-120.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J52	24LH	24.5	7.83333	0	51.0	127.5	51.0	140.3	452.1	17.09	-	102.0	-129.2	-129.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J53	24LH	24.5	7.83333	0	44.7	111.7	44.7	122.8	396.0	17.09	-	89.3	-174.4	-174.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J54	18LH	16.5	0	2.83333	60.0	150.0	60.0	165.0	-	-	330	120.0	-	-223.0	-	-	-	-	-261.7	-	-	-	-	-	-	-	-	-	-	-	-
J55	18LH	16.5	0	2.83333	60.0	150.0	60.0	165.0	-	-	330	120.0	-	-120.0	-	-	-	-	-261.7	-	-	-	-	-	-	-	-	-	-	-	-
J56	18LH	16.5	0	2.83333	44.7	111.7	44.7	122.8	-	-	245.7	89.3	-	-174.4	-	-	-	-	-194.8	-	-	-	-	-	-	-	-	-	-	-	-
J57	10K	7.8333	0	0	60.0	150.0	60.0	165.0	248.25	7.8333	456.8	120.0	-	-234.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J61	sp truss	65	0	2.83333	130.7	326.7	130.7	359.3	-	-	718.7	261.3	-	-600.3	21.04	-576.1	-448.2	10.52	-220.3	-	-	-	-	-	-	-	-	-	-	-	-
J62	16K	23.33	2.33	2.33	60	120.0	30	120	-	-	-	96	-	-222.6	6	-210	-172.6	6	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
1. DEAD LOAD DOES NOT INCLUDE THE SELF-WEIGHT OF THE JOISTS.
2. COLLATERAL LOAD IS TO BE APPLIED 4PSF TO TOP CHORD AND REMAINDER TO BOTTOM CHORD FOR CEILING, LIGHT, PIPING, ETC. HUNG FROM THE BOTTOM OF JOISTS. INCLUDED IN THIS COLLATERAL LOAD IS 500 LB POINT LOAD APPLIED ANYWHERE ALONG THE BOTTOM CHORD OF LH JOISTS. PROVIDE 500 LB POINT LOAD INCLUDED IN COLLATERAL LOADS WHERE FRAMING FOR OPENINGS IS INDICATED ON ROOF FRAMING PLAN.
3. SPANS ARE MEASURED FROM THE CENTERLINE OF W BEAM, COLUMN, OR FACE OF CHANNEL. CONTRACTOR TO ADJUST JOIST LENGTH DEPENDING ON ACTUAL CONNECTION CONDITIONS.
4. CANTILEVER IS MEASURED FROM THE CENTERLINE OF BEAM OF COLUMN TO END OF THE OVERHANG.
5. NOMINAL BEARING DEPTH FOR LH AND DLH JOISTS IS 8" AT THE CENTERLINE OF THE BEAM OR COLUMN. CONTRACTOR TO COORDINATE ACTUAL BEARING DEPTH BETWEEN JOIST SUPPLIER AND STEEL FABRICATOR.
6. JOIST BRIDGING AND BRACING IS THE RESPONSIBILITY OF THE JOIST SUPPLIER. EXCEPT WHERE BRACING LOCATIONS ARE NOTED ON THE DRAWINGS, JOIST SUPPLIER TO DETERMINE REQUIRED BRIDGING, BRACING, AND LOCATIONS. BRIDGING AND/OR BRACING NOT INDICATED TO BE CONNECTION TO 1/4" MINIMUM PLATES WELDED TO THE TOP AND BOTTOM FLANGES OF BEAMS PARALLEL TO THE JOISTS OR TO THE FACE OF COLUMNS. DESIGN JOISTS, BRIDGING, AND BRACING SO THE ELEMENTS DO NOT CONNECT BRIDGING OR BRACING IN THE PROTECTED ZONES OF BRACED FRAMES.
7. ALL WIND LOADS ARE PERPENDICULAR TO THE JOIST.
8. ALL SNOW LOADS ARE APPLIED TO THE HORIZONTAL PLANE OF JOIST.
9. UNIFORM LOADS ARE VERTICAL APPLIED TO THE LENGTH OF THE JOIST.
10. POINT LOAD LOCATIONS ARE APPROXIMATE. COORDINATE POINT LOAD LOCATIONS WITH MECHANICAL.
11. LOADS PROVIDED ARE ULTIMATE LOADS AS SPECIFIED IN ASCE 7.

A1 **JOIST LOADING DIAGRAM**

1/4" = 1'-0"

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ORION HIGH SCHOOL
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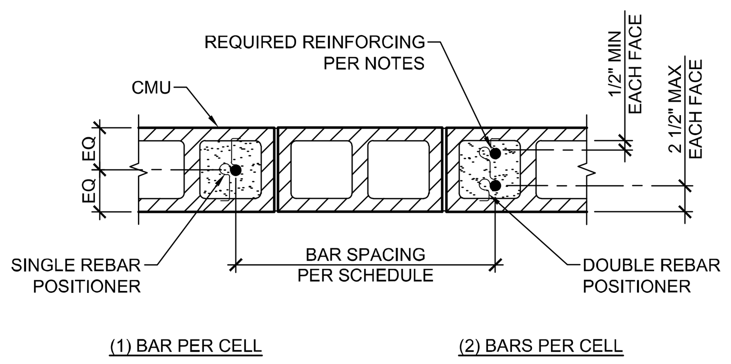
PASCO, WASHINGTON 99301

DATE
12/18/2023

SHEET NAME
LOADING DIAGRAM

SHEET
S6.02



G1 **MASONRY WALL BAR PLACEMENT**
NTS

G4
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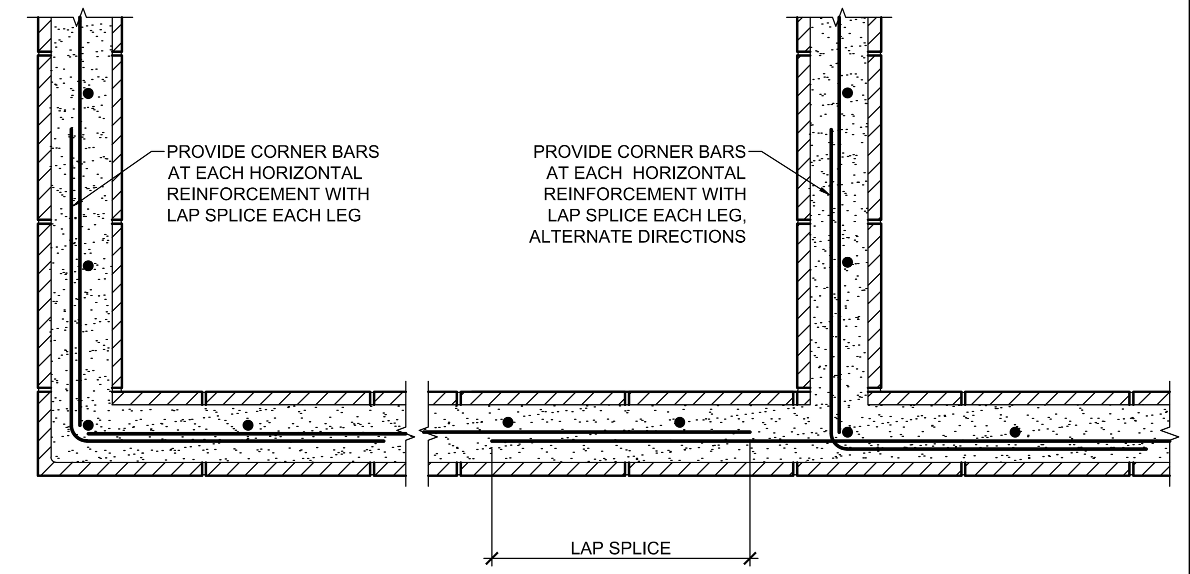
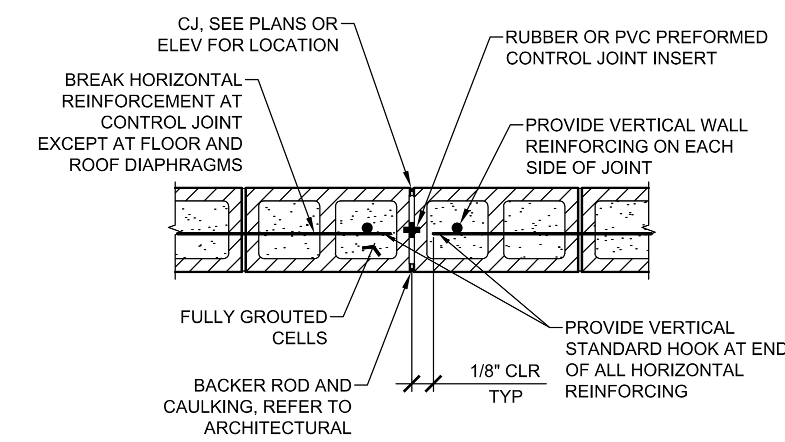


G7 **MASONRY WALL CORNER AND INTERSECTION**
NTS



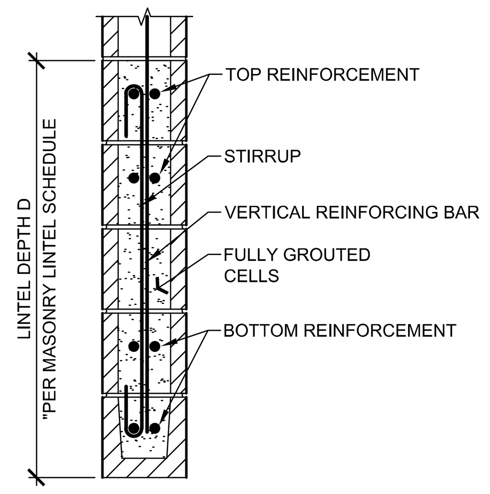
G10 **MASONRY CONTROL JOINT**
NTS

MASONRY LINTEL SCHEDULE

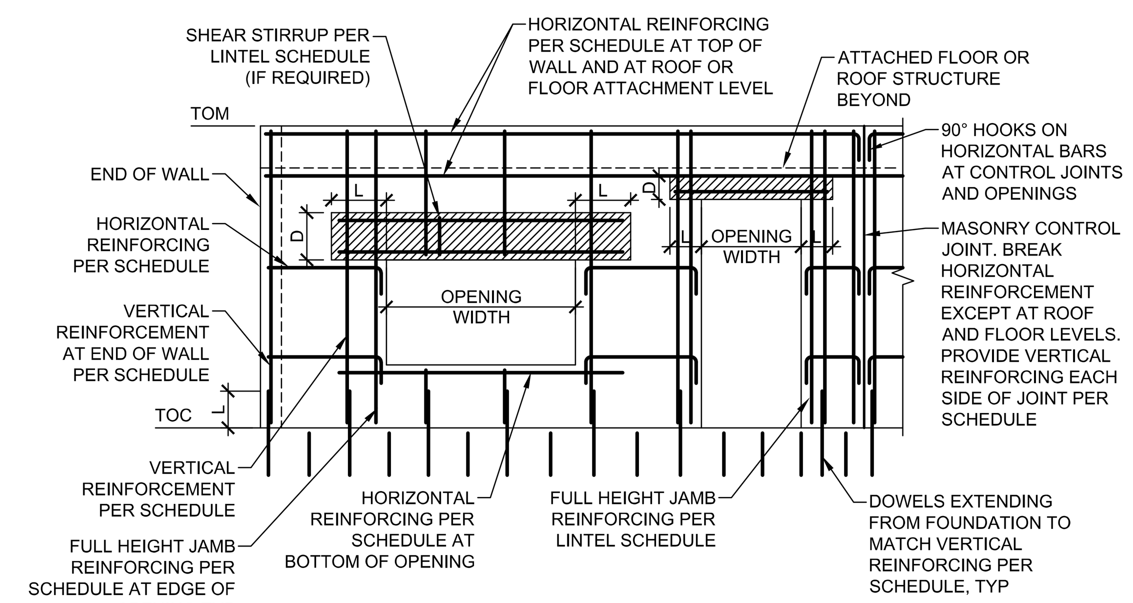
KEY: ML2-1#5 — MASONRY LINTEL; NUMBER OF GROUTED CELLS; QUANTITY; REBAR

DRAWING MARK	LINTEL DEPTH, "D"	BOTTOM REINFORCEMENT	TOP REINFORCEMENT	NO. GROUTED JAMB CELLS	JAMB REINFORCEMENT PER CELL	STIRRUPS
ML2-1#5	16"	(1) #5 IN BOTTOM COURSE	(1) #5 IN TOP COURSE	(1)	(2) #5	NONE
ML3-2#5	24"	(2) #5 IN BOTTOM COURSE	(2) #5 IN TOP COURSE	(1)	(2) #5	(1) #4 AT 36" C/C

NOTES:
1. NO MORE THAN (2) BARS SHALL BE PLACED IN ANY (1) COURSE.
2. SEE TYPICAL MASONRY WALL REINFORCING ELEVATION, THIS SHEET.
3. COORDINATE ALL DOOR, WINDOW AND DUCT OPENINGS WITH ARCHITECTURAL FOR SIZE AND LOCATION.

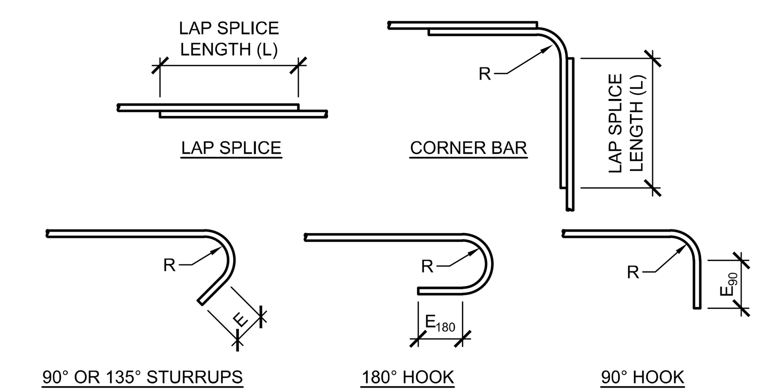


E1 **MASONRY (CMU BLOCK) LINTEL SCHEDULE**
NTS



L=LAP SPLICE LENGTH PER MASONRY REINFORCING BAR SCHEDULE
D=LINTEL DEPTH PER MASONRY LINTEL SCHEDULE

E7 **TYPICAL MASONRY WALL REINFORCING ELEVATION**
NTS



BAR SIZE	LAP SPLICES	STIRRUPS		STANDARD HOOKS		
	L	R	E	R	E_{90}	E_{180}
#3	14"	1 1/8"	4"	1 1/8"	6"	3"
#4	25"	1 1/2"	5"	1 1/2"	8"	4"
#5	39"	1 7/8"	7"	1 7/8"	10"	5"
#6	73"	2 1/4"	-	2 1/4"	12"	6"
#7	99"	2 5/8"	-	2 5/8"	14"	7"

E10 **MASONRY REINFORCING BAR SCHEDULE**
NTS

KEY: FT1-44 — FOOTING TYPE; DIMENSION WIDTH; DIMENSION LENGTH

FOOTING	DIMENSIONS W	L	T	TOF, UNO	REINFORCEMENT EQ SP	REMARKS/DETAILS
TYPE 1: INTERIOR FOOTING						
FT1-33	3'-0"	3'-0"	1'-0"	99'-0"	(3) #5 BARS EA WAY	G1/S5.01
FT1-44	4'-0"	4'-0"	1'-0"	99'-0"	(4) #5 BARS EA WAY	G1/S5.01
FT1-4646	4'-6"	4'-6"	1'-0"	99'-0"	(5) #5 BARS EA WAY	G1/S5.01
FT1-55	5'-0"	5'-0"	1'-0"	99'-0"	(5) #5 BARS EA WAY	G1/S5.01
FT1-5656	5'-6"	5'-6"	1'-0"	99'-0"	(6) #5 BARS EA WAY	G1/S5.01
FT1-66	6'-0"	6'-0"	1'-3"	99'-0"	(7) #5 BARS EA WAY TOP AND BOTTOM	G1/S5.01
FT1-6666	6'-6"	6'-6"	1'-3"	99'-0"	(7) #5 BARS EA WAY TOP AND BOTTOM	G1/S5.01
FT1-77	7'-0"	7'-0"	1'-3"	99'-0"	(7) #5 BARS EA WAY TOP AND BOTTOM	G1/S5.01
FT1-7676	7'-6"	7'-6"	2'-0"	99'-0"	(8) #5 BARS EA WAY TOP AND BOTTOM	G1/S5.01
FT1-8686	8'-6"	8'-6"	1'-3"	99'-0"	(9) #5 BARS EA WAY TOP AND BOTTOM	G1/S5.01
TYPE 2: EXTERIOR FOOTING						
FT2-3636	3'-6"	3'-6"	1'-0"	98'-0"	(4) #5 BARS EA WAY	G7/S5.01
FT2-44	4'-0"	4'-0"	1'-0"	98'-0"	(4) #5 BARS EA WAY	G7/S5.01
FT2-4646	4'-6"	4'-6"	1'-0"	98'-0"	(5) #5 BARS EA WAY	G7/S5.01
FT2-55	5'-0"	5'-0"	1'-0"	98'-0"	(5) #5 BARS EA WAY	G7/S5.01
FT2-5656	5'-6"	5'-6"	1'-0"	98'-0"	(6) #5 BARS EA WAY	G7/S5.01
FT2-66	6'-0"	6'-0"	1'-3"	98'-3"	(6) #5 BARS EA WAY TOP AND BOTTOM	G7/S5.01
FT2-96	9'-0"	6'-0"	1'-3"	98'-3"	(5) #6 LONGITUDINAL AND (10) #5 TRANSVERSE BARS TOP AND BOTTOM	E1/S5.01
TYPE 3: EXTERIOR BRACED FRAME FOOTINGS						
FT3-318	3'-0"	18'-0"	1'-10"	99'-0"	(4) #5 LONGITUDINAL TOP AND BOTTOM AND (19) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-418	4'-0"	18'-0"	1'-10"	99'-0"	(5) #5 LONGITUDINAL TOP AND BOTTOM AND (21) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-4206	4'-0"	20'-6"	1'-10"	99'-0"	(4) #5 LONGITUDINAL TOP AND BOTTOM AND (21) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-518	5'-0"	18'-0"	1'-10"	99'-0"	(9) #6 LONGITUDINAL BOTTOM,(6) #5 LONGITUDINAL TOP, AND (21) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-519	5'-0"	19'-0"	1'-10"	99'-0"	(5) #6 LONGITUDINAL BOTTOM,(8) #6 LONGITUDINAL TOP, AND (20) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-620	6'-0"	20'-0"	1'-10"	99'-0"	(6) #6 LONGITUDINAL TOP AND BOTTOM AND (21) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-6224	6'-0"	22'-4"	1'-10"	99'-0"	(9) #6 LONGITUDINAL BOTTOM,(6) #5 LONGITUDINAL TOP, AND (23) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-722	7'-0"	22'-0"	2'-0"	99'-0"	(10) #6 LONGITUDINAL BOTTOM,(7) #6 LONGITUDINAL TOP, AND (23) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT3-7621	7'-6"	21'-0"	2'-0"	99'-0"	(8) #6 LONGITUDINAL BOTTOM,(7) #6 LONGITUDINAL TOP, AND (22) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
TYPE 4: INTERIOR BRACED FRAME FOOTINGS						
FT4-318	3'-0"	18'-0"	1'-10"	99'-0"	(4) #5 LONGITUDINAL TOP AND BOTTOM AND (19) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-522	5'-0"	22'-0"	1'-10"	99'-0"	(5) #6 LONGITUDINAL TOP AND BOTTOM AND (23) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-724	7'-0"	24'-0"	2'-0"	99'-0"	(7) #6 LONGITUDINAL TOP AND BOTTOM AND (25) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-7621	7'-6"	21'-0"	2'-0"	99'-0"	(8) #6 LONGITUDINAL BOTTOM,(7) #6 LONGITUDINAL TOP, AND (22) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-7622	7'-6"	22'-0"	2'-0"	99'-0"	(13) #6 LONGITUDINAL BOTTOM,(8) #6 LONGITUDINAL TOP, AND (23) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-821	8'-0"	21'-0"	2'-0"	99'-0"	(8) #6 LONGITUDINAL BOTTOM,(7) #6 LONGITUDINAL TOP, AND (22) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-1122	11'-0"	22'-0"	2'-0"	99'-0"	(7) #6 LONGITUDINAL TOP AND BOTTOM AND (23) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01
FT4-1124	11'-0"	22'-0"	2'-0"	99'-0"	(18) #6 LONGITUDINAL BOTTOM,(11) #6 LONGITUDINAL TOP, AND (25) #5 TRANSVERSE BARS TOP AND BOTTOM	E7/S5.01

C1 **CONCRETE FOOTING SCHEDULE**
NTS

C7
NTS

C10
NTS

A7
NTS

A10
NTS

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