

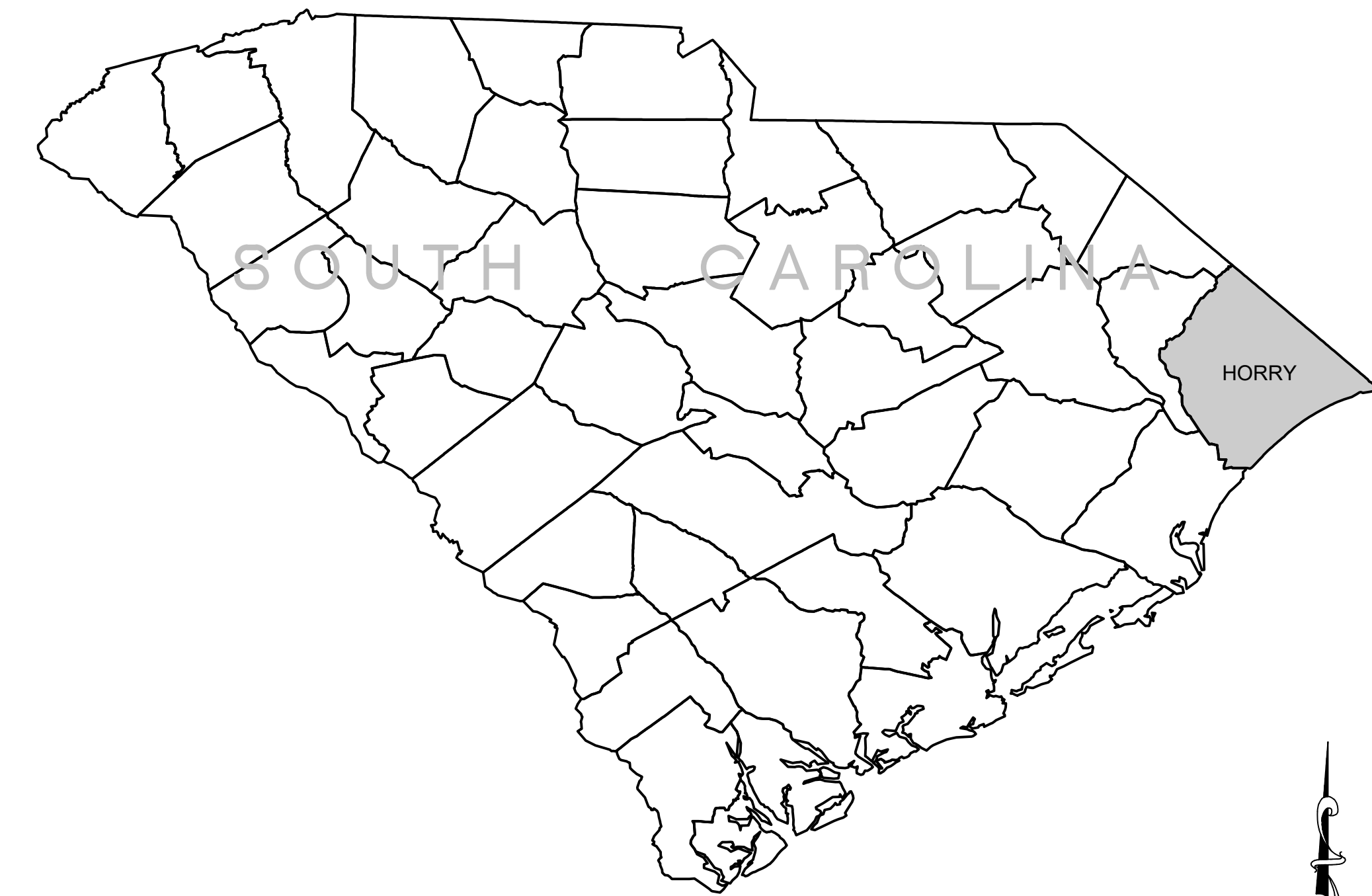
CONWAY WWTP SLUDGE DEWATERING SYSTEM

HORRY COUNTY, SOUTH CAROLINA

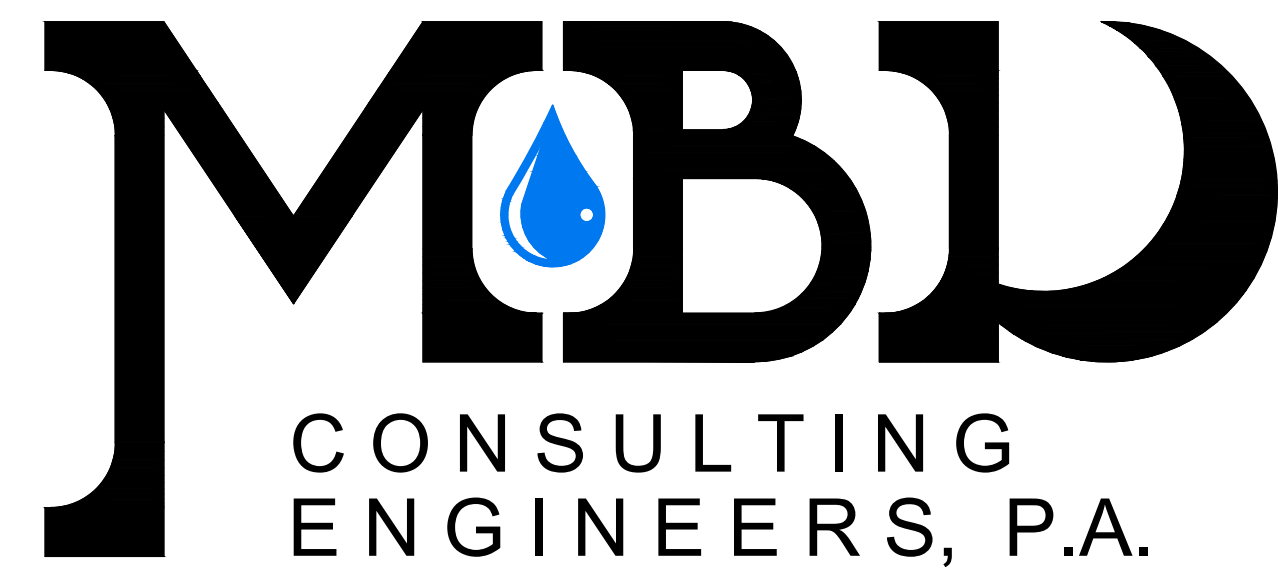
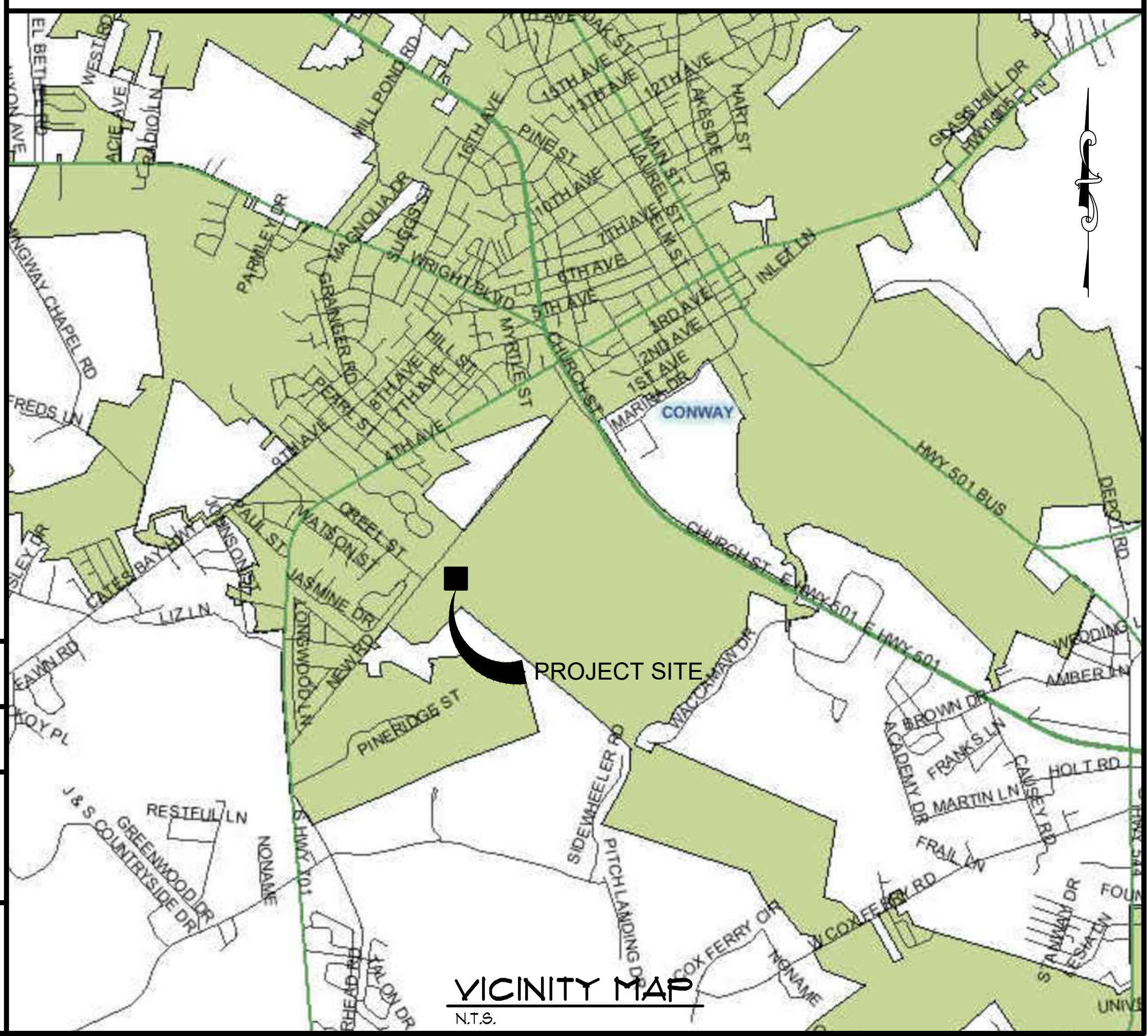
Parcel's TMS# and address (2515 New Road, TMS# 137-00-03-103)



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LOCATION MAP
N.T.S.



1300 SECOND AVENUE
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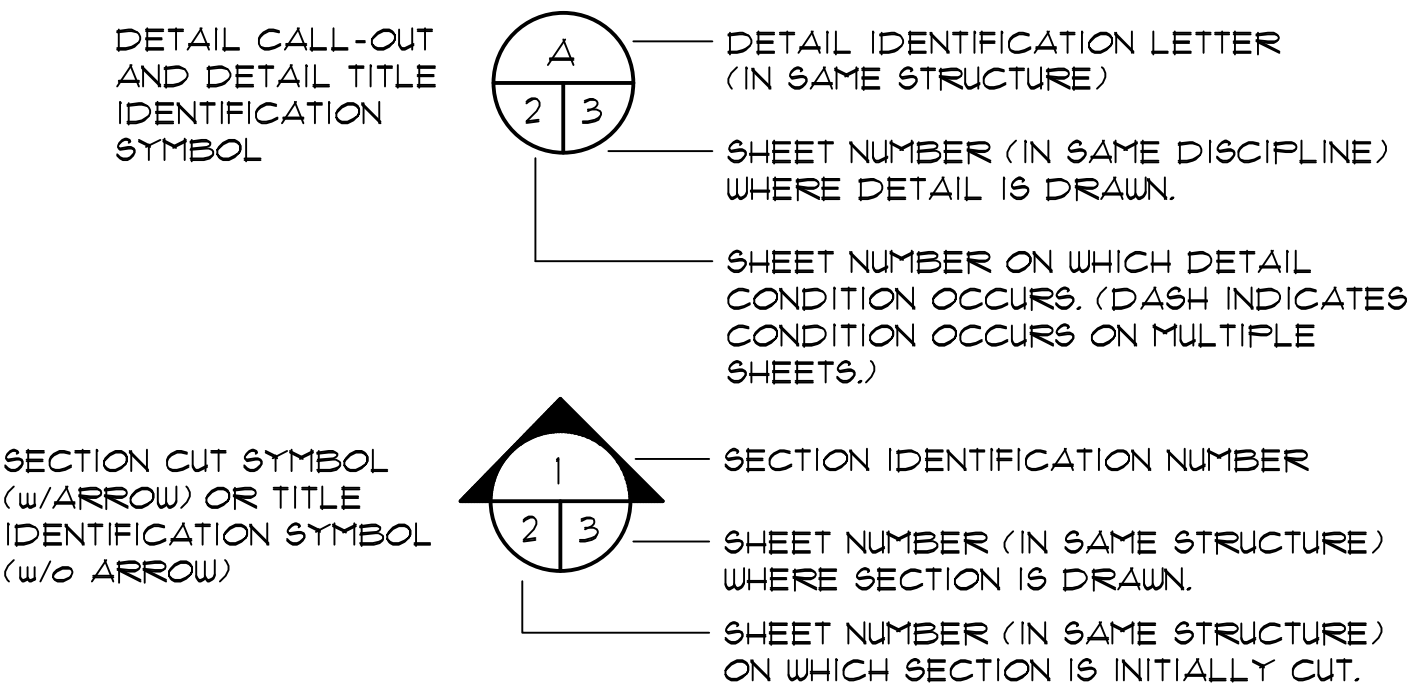
FEBRUARY 2012
JOB NO. 30004
11x17 DWGS. ARE TRUE HALF SCALE
AS-BUILT

Version: 3

GENERAL CONSTRUCTION ABBREVIATIONS

*	NUMBER OR POUND	INFL	INFLUENT
φ	DIAMETER	INS.	INSIDE
≠	AND	INV.	INVERT
<	LESS THAN	JT.	JOINT
<=	LESS THAN OR EQUAL TO	JTS	JOINTS
>	GREATER THAN	L.L.O.	LONG LEG OUT
@	AT	LB	POUND
A.B.	ANCHOR BOLT	LG	LONG
AFF.	ABOVE FINISHED FLOOR	L.P.	LOW POINT
ADDL	ADDITIONAL	M.J.	MECHANICAL JOINT
ALUM	ALUMINUM OR ALUM	MATL.	MATERIAL
APPROX	APPROXIMATE(LY)	MAS	MASONRY
ARCH	ARCHITECTURAL	MAX	MAXIMUM
BM	BENCH MARK OR BEAM	MECH	MECHANICAL
BOTT.	BOTTOM	MFR	MANUFACTURER
B.W.	BLOCK WALL	MH	MANHOLE
C.I.	CAST IRON	MIN	MINIMUM
C/C	CENTER TO CENTER	MNTG	MOUNTING
CAP	CAPACITY	N.F.W.	NONPOTABLE WATER
CIRCUM	CIRCUMFERENCE	N.T.S.	NOT TO SCALE
CL	CLAY	NO.	NUMBER
CLR.	CLEARANCE	O.C.	ON CENTER
☒	CENTERLINE	O/O	OUTSIDE TO OUTSIDE
CL2	CHLORINE	OPNG	OPENING
CLARIF	CLARIFIER	OX	OXIDATION
CHEM.	CHEMICAL	P.E.	PLAIN END
COL	COLUMN	PED	PEDESTAL
CONC.	CONCRETE	PL	PLATE
CONST	CONSTRUCTION	PLCS	PLACES
CONT	CONTINUOUS	PROJ	PROJECTION
CONTR	CONTRACTOR	P.S.	PUMP STATION
CU	COPPER	P.V.C.	POLYVINYL CHLORIDE
C.W.	CONCRETE WALL	R.C.P.	REINFORCED CONCRETE PIPE
D	DIAMETER	RAD.	RADIUS
DIA	DIAMETER	RAS	RETURN ACTIVATED SLUDGE
D.I.P.	DUCTILE IRON PIPE	RED	REDUCER
DISCH.	DISCHARGE	REF	REFERENCE
DP	DEEP	REINF	REINFORCING OR REINFORCED
DWLS.	DOWELS	REQ'D	REQUIRED
E.F.	EACH FACE	S.S.	STAINLESS STEEL
E.J.	EXPANSION JOINT	SCH.	SCHEDULE
EA	EACH	SHT	SHEET
EFF.	EFFLUENT	SIM	SIMILAR
EL	ELEVATION	SO2	SULFUR DIOXIDE
ELEV	ELEVATION	SFA	SPACES
EQ	EQUAL	SQ.	SQUARE
EQUIP	EQUIPMENT	STD.	STANDARD
EXIST.	EXISTING	STL	STEEL
EXP.	EXPANSION	STN	STAINLESS
F.E.S.	FLARED END SECTION	S.W.	SLAB WIDTH
F.R.P.	FIBERGLASS	S.W.D.	SIDE WALL DEPTH
	REINFORCED PLASTIC	T/	TOP OF
FIG	FIGURE	TCJ,CJ	TYP. CONTROL JOINT, CONSTRUCTION JOINT
FIN	FINISHED		
FL	FLANGE	THRD	THREAD(SXED)
FLR	FLOOR	TRICK	TRICKLING
FTG	FOOTING	TYP	TYPICAL
GALV	GALVANIZED	U.ON.	UNLESS OTHERWISE NOTED
HDWE	HARDWARE	VERT	VERTICAL
HK	HOOK	W.W.F.	WELDED WIRE FABRIC
HORIZ.	HORIZONTAL	W/	WITH
H.P.	HIGH POINT	W/O	WITHOUT
HYD	HYDRANT	WAS	WASTE ACTIVATED SLUDGE
I.D.	INSIDE DIAMETER	W/L	WATER LEVEL
O.D.	OUTSIDE DIAMETER		

SECTION/DETAIL LEGEND



- A. FOUNDATIONS.
1. MAXIMUM ALLOWABLE NET BEARING PRESSURE = 1000 PSF (PRESUMPTIVE).
 2. EXCAVATIONS AND FORMS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACING CONCRETE.
 3. AS DIRECTED BY THE ENGINEER, LOOSE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF THE FOUNDATIONS AND REPLACED WITH COMPACTED STRUCTURAL FILL OR STONE.
 4. PLACE CONCRETE FOR WALLS AND SLABS IN ALTERNATE SECTIONS AND PROVIDE CONSTRUCTION JOINTS AT LOCATIONS SHOWN ON THE DRAWINGS, OR AT 30 FEET MAXIMUM.
 5. PROVIDE BRACING AGAINST WALLS AS REQUIRED TO PREVENT DAMAGE DURING COMPACTION OF FILL.
 6. ALL FILL OR BACKFILL SHALL BE SELECT MATERIAL FREE FROM ROOTS, TRASH, WOOD SCRAPS AND OTHER EXTRANEOUS MATERIALS. PLACE IN LIFTS NOT EXCEEDING 8 INCHES AND COMPACT EACH LIFT TO 95% DENSITY (98% FINAL FOOT) AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698.
 7. WHERE SOFT SOILS REQUIRE OVER EXCAVATION FOR BUILDING FOUNDATIONS, OVER EXCAVATED AREAS SHALL BE BACKFILLED WITH COMPACTED #57 OR #67 STONE TO THE DESIGN BEARING ELEVATION.
- B. CONCRETE.
1. CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
CONTAINMENT STRUCTURES AND SLABS 4,000 PSI
ALL OTHER CONCRETE 3,000 PSI
 2. CONCRETE WORK SHALL CONFORM TO ACI 318-05 AND ACI 301-05.
 3. CONCRETE SHALL BE CURED A MINIMUM OF 7 DAYS BY ONE OR MORE METHODS SPECIFIED IN ACI 301.
 4. CHAMFER EXPOSED EDGES OF CONCRETE (AND ALL CORNERS OF ALL COLUMNS) 3/4 INCH, UNLESS OTHERWISE NOTED.
 5. PLACE 1/2 INCH EXPANSION JOINT MATERIAL BETWEEN EDGES OF SLABS AND VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
 6. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS AND WALLS AT LOCATIONS SHOWN ON DRAWINGS, AT OFFSETS AND CHANGES IN DIRECTION, AND AT 30 FEET MAXIMUM. CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM WALL INTERSECTIONS.
- C. REINFORCING STEEL.
1. BARS SHALL BE ROLLED FROM NEW BILLET-STEEL CONFORMING TO ASTM A615, GRADE 60.
 2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 OR ASTM A497.
 3. REINFORCING STEEL IN PLACE SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACING CONCRETE.
- D. GROUT.
1. NON-SHRINK GROUT SHALL CONFORM TO CORP OF ENGINEERS SPECIFICATION CRD-C 671.
 2. GROUT SHALL BE NON-STAINING AND NON-SHRINKING.
- E. WATERSTOPS
1. PROVIDE CONTINUOUS PVC WATERSTOPS WHERE SHOWN ON DRAWINGS. AT EXTERIOR WALL CONSTRUCTION JOINTS AND WHERE DIFFERENTIAL HEIGHTS OF FLUIDS EXIST ON EITHER SIDE OF WALL.
 2. WATERSTOPS SHALL BE MANUFACTURED OF VIRGIN MATERIAL COMPOSED OF AN ELASTOMERIC POLYVINYL CHLORIDE COMPOUND MEETING THE REQUIREMENTS OF CORPS OF ENGINEERS CRD-C572. SUBMIT MANUFACTURER'S LITERATURE SHOWING COMPLIANCE WITH THE ABOVE SPECIFICATION AND SHOWING WATERSTOP SHAPES FOR USE.
 3. WATERSTOPS AT CONSTRUCTION JOINTS SHALL BE 6 INCH MINIMUM LENGTH "DUMBBELL" TYPE UNLESS OTHERWISE INDICATED ON DRAWINGS. WATERSTOPS AT EXPANSION JOINTS SHALL BE 9 INCH MINIMUM LENGTH "DUMBBELL" TYPE WITH 3/4 INCH MINIMUM INSIDE DIAMETER CENTER BULB, UNLESS OTHERWISE INDICATED ON DRAWINGS.
 4. ALL SPLICING OF WATERSTOPS SHALL BE SHOP FABRICATED EXCEPT THAT BUTT SPLICES MAY BE FIELD FABRICATED.
 5. HYDROPHILIC WATERSTOPS SHALL BE A NON-BENTONITE, COEXTRUDED, STRIP APPLIED HYDROPHILIC RUBBER CONSISTING OF CHLOROPRENE RUBBER AND CHLOROPRENE RUBBER MODIFIED TO IMPART HYDROPHILIC PROPERTIES.
 6. HYDROPHILIC WATERSTOP SHALL HAVE AN EXPANSION DELAY COATING TO INHIBIT INITIAL EXPANSION DUE TO MOISTURE PRESENT IN FRESH CONCRETE.
 7. HYDROPHILIC WATERSTOP VOLUMETRIC EXPANSION RATIO MUST BE A MINIMUM OF 3:1.
- F. DESIGN LOADS.
- STRUCTURAL MEMBERS SHALL BE DESIGNED FOR FULL DEAD LOADS AND THE FOLLOWING LIVE LOADS:
1. IMPORTANCE FACTORS:
WIND (lw) = 1.15
SNOW (ls) = 1.10
SEISMIC (le) = 1.25
 2. LIVE LOADS:
ROOF = 20 PSF (REDUCIBLE)
FLOORS, UON = 300 PSF
 3. SNOW LOAD:
Pg = 5 PSF GROUND SNOW LOAD
Pf = 4.2 PSF, FLAT SNOW LOAD PLUS RAIN SURCHARGE
Ce = 1.0, Ct = 1.10
 4. WIND LOAD: BASIC WIND SPEED 130 (ASCE 7-05) Vx = 18 k Vy = 31 k
EXPOSURE CATEGORY C, PARTIALLY ENCLOSED BUILDING (Gcpi = ±0.55)
COMPONENT AND CLADDING WIND PRESSURES
- | | AREA | SURFACE PRESSURE (PSF) | | |
|---------------------|------|------------------------|--------|--------|
| | | 10 SF | 50 SF | 100 SF |
| ROOF | | | | |
| NEGATIVE ZONE 1 | | -53.1 | -50.5 | -49.4 |
| NEGATIVE ZONE 2 | | -82.4 | -69.6 | -64.1 |
| NEGATIVE ZONE 3 | | -82.4 | -69.6 | -64.1 |
| POSITIVE | | 38.5 | 33.3 | 31.1 |
| WALL | AREA | 10 SF | 100 SF | 500 SF |
| NEGATIVE ZONE 4 | | -60.4 | -54.0 | -49.4 |
| NEGATIVE ZONE 5 | | -71.4 | -58.5 | -49.4 |
| POSITIVE ZONE 4 & 5 | | 56.8 | 50.3 | 45.8 |
5. SEISMIC DESIGN CATEGORY A
COMPLIANCE WITH SECTION 1616.4 ONLY? YES X_NO
 6. SEISMIC DESIGN CATEGORY D
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY III
SPECTRAL RESPONSE ACCELERATION Ss = 0.670 %g Sds = 0.565 %g
S1 = 19.0 %g Sd1 = 25.8 %g
Cs = 0.029 R = 3.5 INTERMEDIATE REINF MAS SHEAR WALLS
- SITE CLASSIFICATION D
BASIC STRUCTURAL SYSTEM
- BEARING WALL DUAL w/SPECIAL MOMENT FRAME
BUILDING FRAME DUAL w/INTERMEDIATE R/C OR SPECIAL STEEL
MOMENT FRAME INVERTED PENDULUM
- SEISMIC BASE SHEAR Vs = 55 k
ANALYSIS PROCEDURE SIMPLIFIED X EQUIVALENT LATERAL FORCE
7. LATERAL DESIGN CONTROL: WIND X SEISMIC

GENERAL NOTES

- G. DIMENSIONS.
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DIMENSIONS OF THE STRUCTURAL DRAWINGS AND ADVISING THE ENGINEER OF ANY DIFFERENCES IN DIMENSIONS BETWEEN THE ARCHITECTURAL, STRUCTURAL AND CIVIL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
 2. DIMENSIONS SHOWN TO EXISTING CONSTRUCTION ARE PLUS OR MINUS REGARDLESS OF WHETHER SHOWN AS SUCH ON THE DRAWINGS OR NOT. DIMENSIONS TO EXISTING CONSTRUCTION ARE TAKEN FROM THE ORIGINAL BUILDING DRAWINGS AND HAVE NOT BEEN FIELD VERIFIED. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL DIMENSIONS TO EXISTING CONSTRUCTION.
- H. ABBREVIATIONS.
- THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THESE DRAWINGS, BUT TO SUPPLEMENT THE MORE COMMON ABBREVIATIONS USED:
1. TYP - TYPICAL
 2. UON - UNLESS OTHERWISE NOTED
 3. CLR - CLEAR, CLEARANCE
 4. TCJ - TYPICAL CONTROL JOINT, TYPICAL CONSTRUCTION JOINT
 5. EJ - EXPANSION JOINT
 6. CJ - CONSTRUCTION JOINT
- J. CONSTRUCTION SAFETY.
1. THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.
 2. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING AND GUYING OF FRAMING AGAINST WIND, CONSTRUCTION LOADS AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF THE FRAMING.

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- P-1 PLUMBING GENERAL NOTES AND SCHEDULES
P-2 SLUDGE PRESS BUILDING PLUMBING PLAN

AS-BUILT

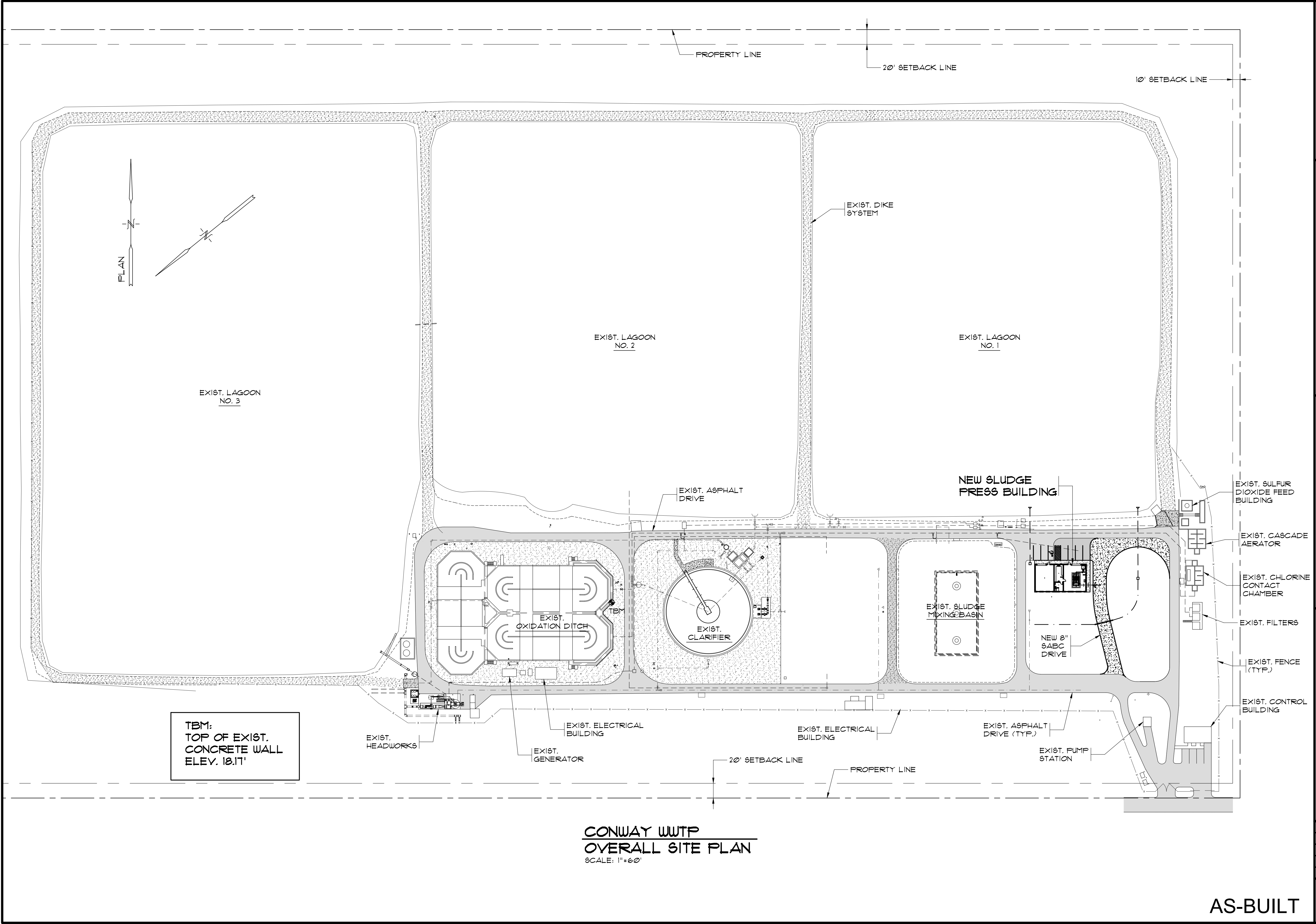
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MBD ENGINEERS, P.A.

GENERAL NOTES & INDEX

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN
Date: FEB. 2012
Drawn: DC
Checked: JWM
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CONWAY WWTP
OVERALL SITE PLAN
SCALE: 1"=60'

AS-BUILT

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CONWAY WWTP
OVERALL SITE PLAN

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN

Date: FEB. 2012

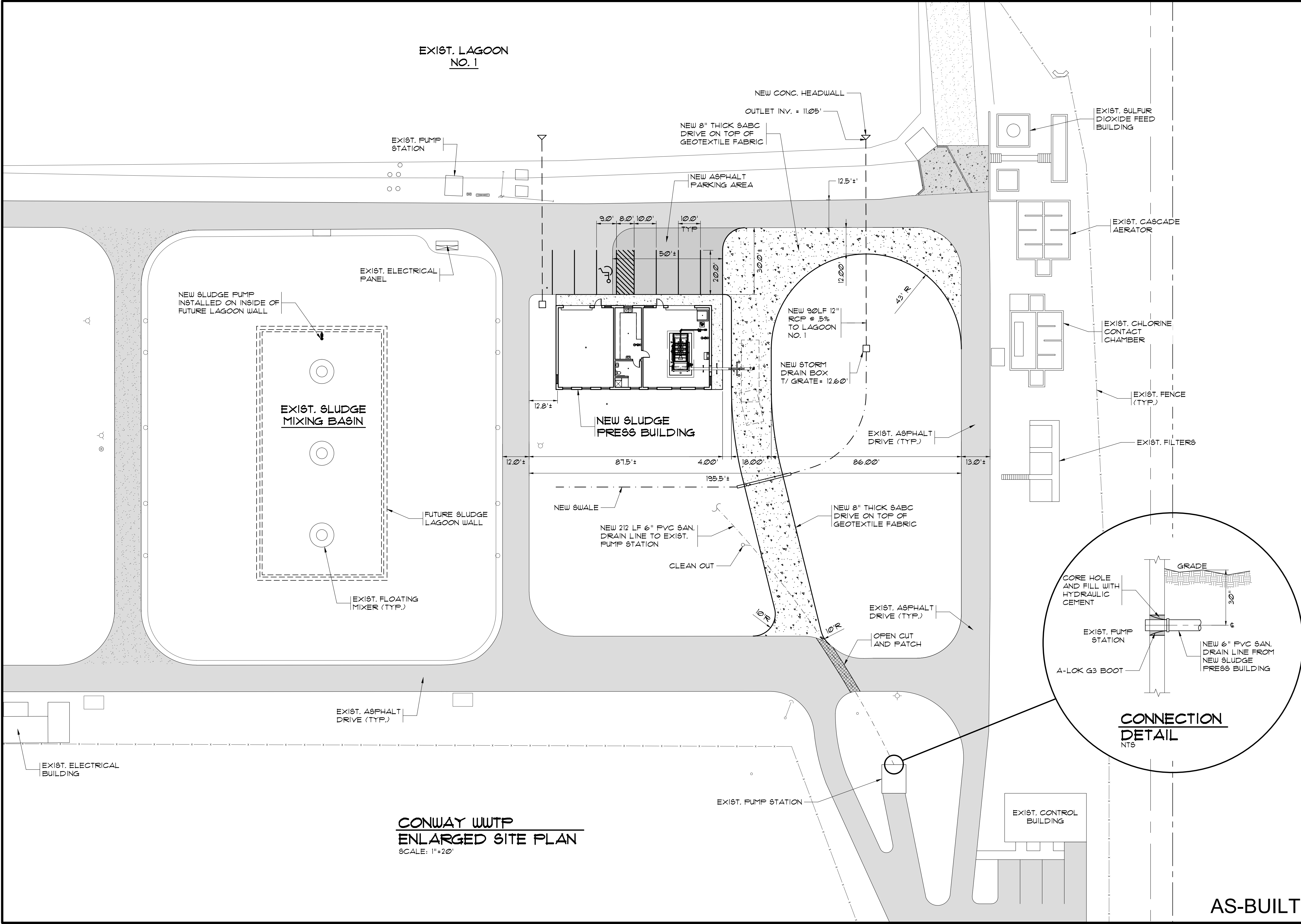
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**CONWAY WWTP
ENLARGED SITE PLAN**
SCALE: 1"=20'

AS-BUILT

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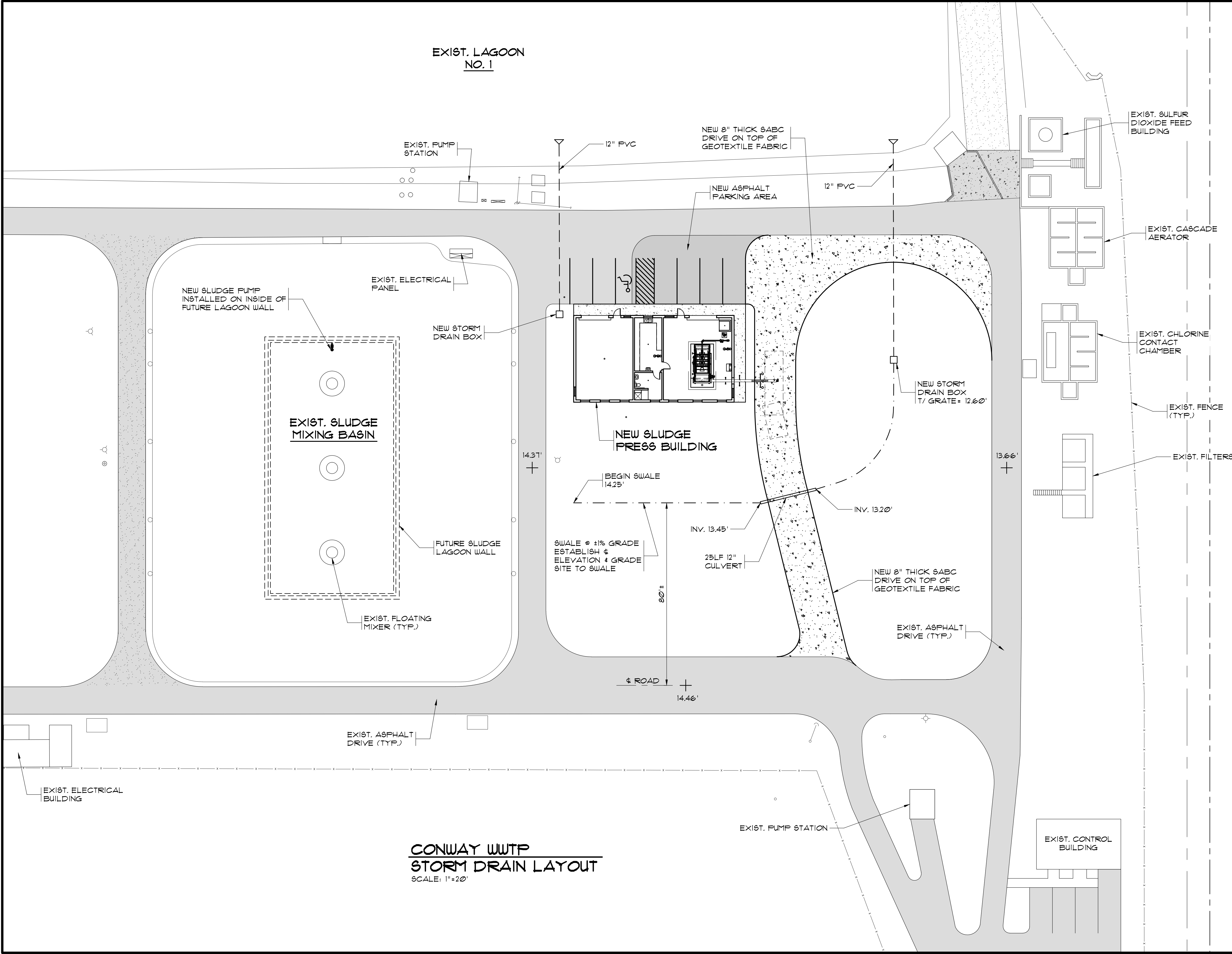
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SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
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CONWAY WWTP
ENLARGED SITE PLAN

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CONWAY WWTP
STORM DRAIN LAYOUT
SCALE: 1"=20'

AS-BUILT

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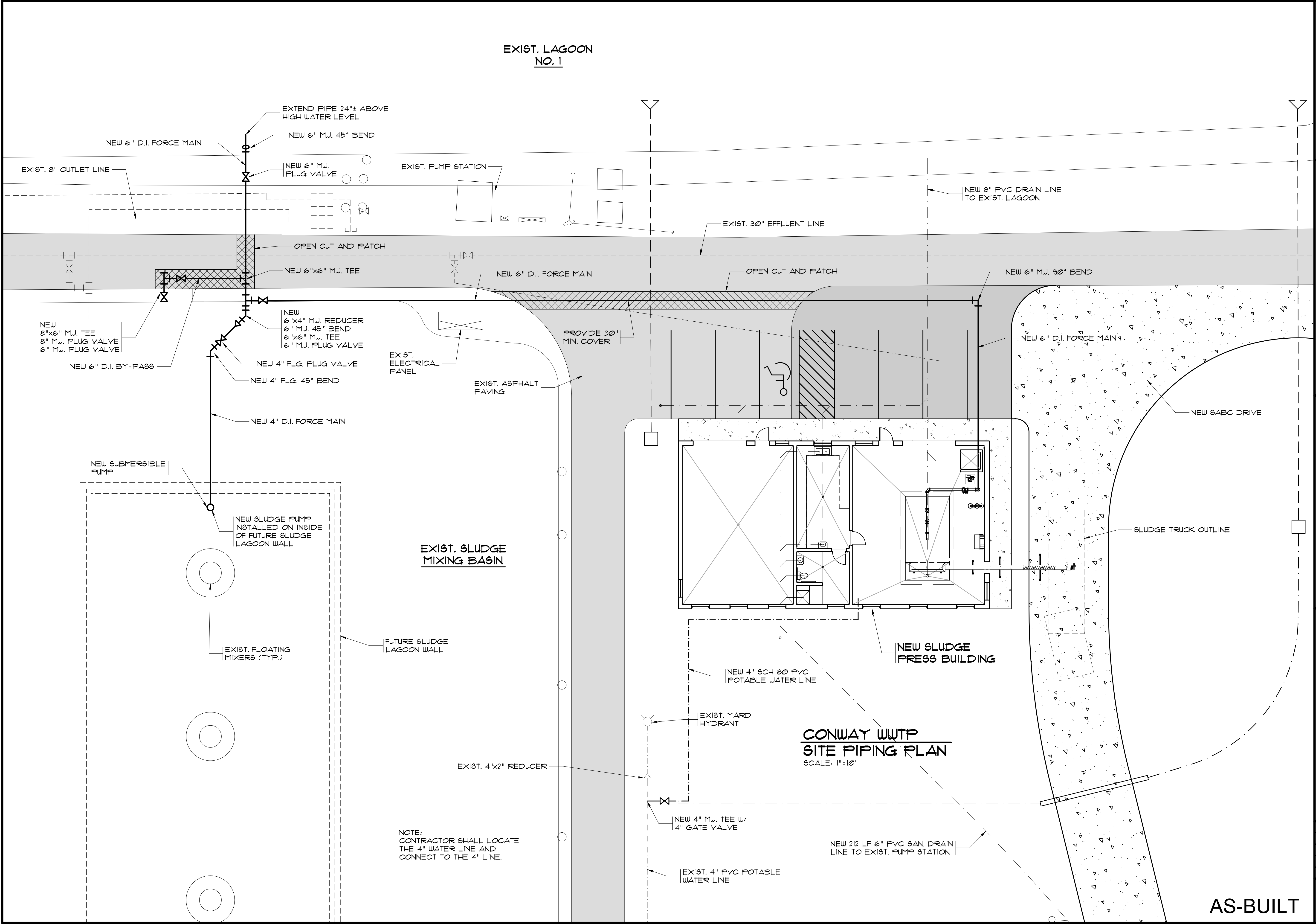
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CONWAY WWTP
STORM DRAIN LAYOUT

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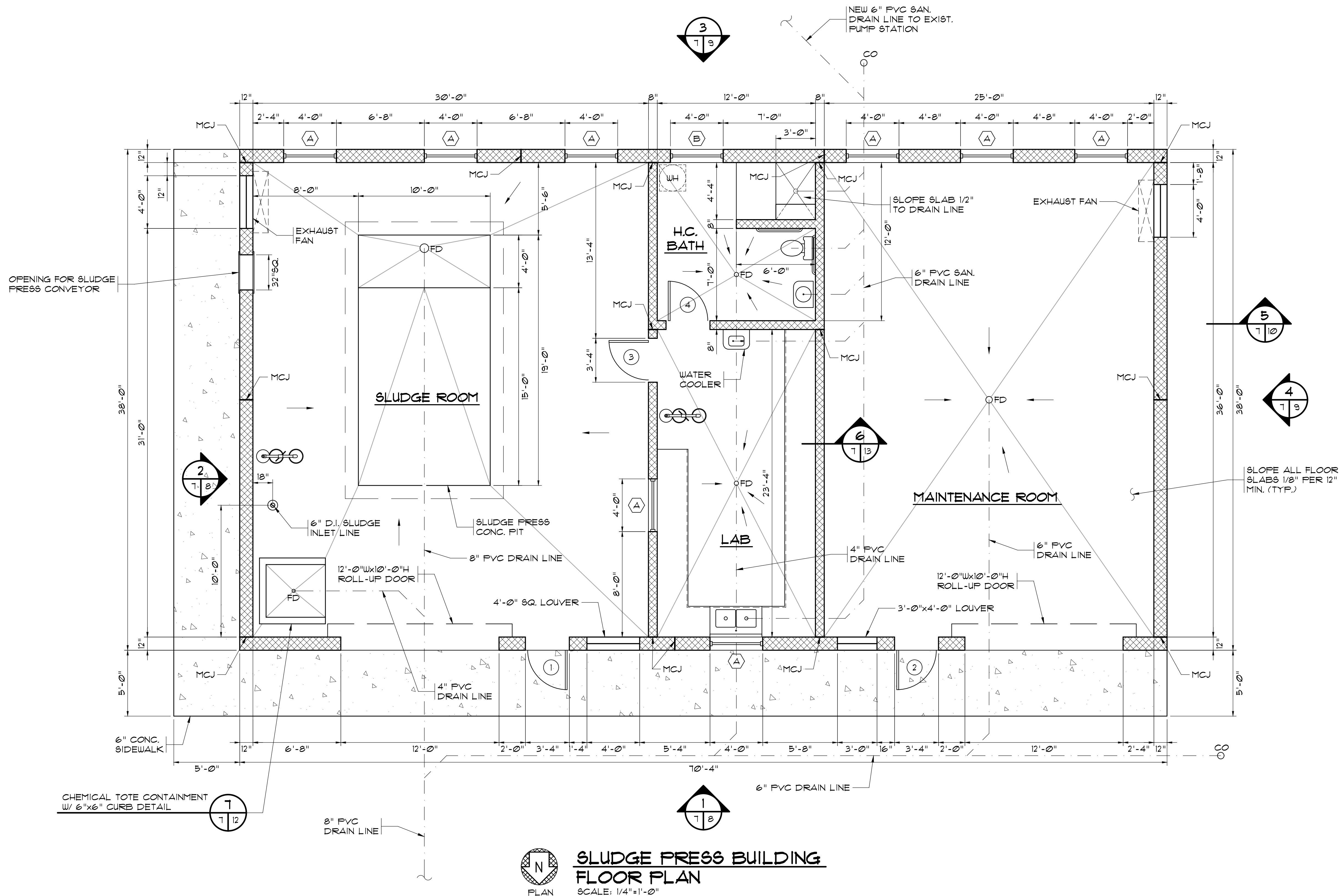
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CONWAY WWTP
SITE PIPING PLAN

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AS-BUILT



**SLUDGE PRESS BUILDING
FLOOR PLAN**
SCALE: 1/4"=1'-0"

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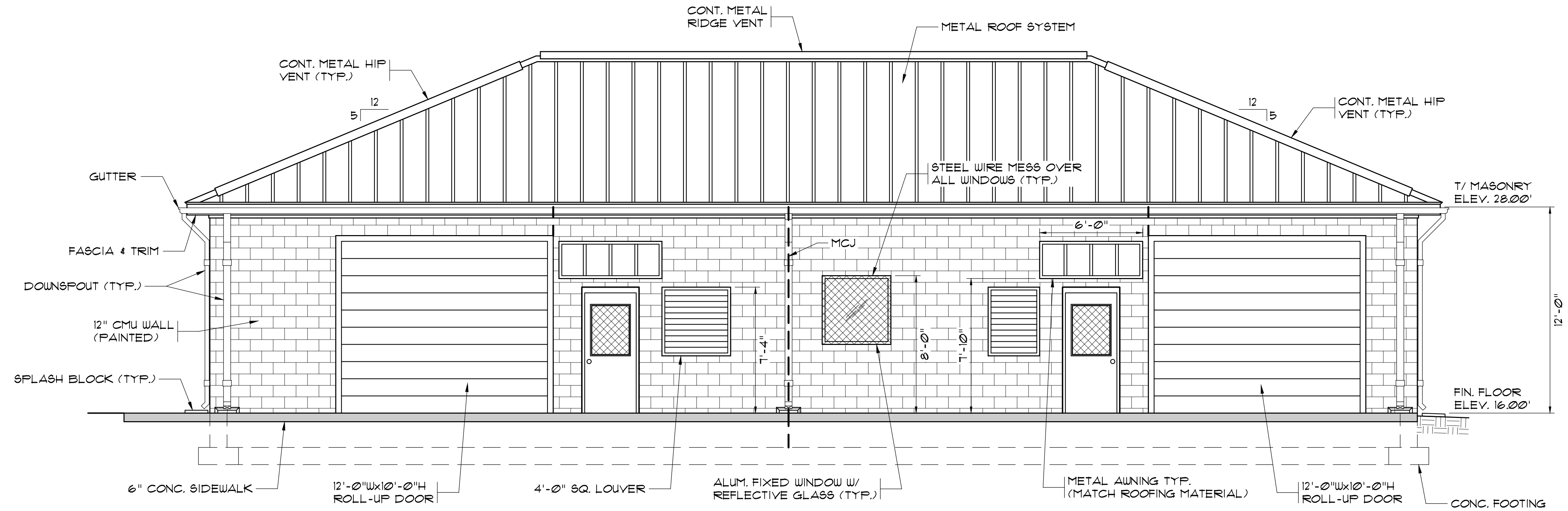
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**SLUDGE PRESS BUILDING
FLOOR PLAN**

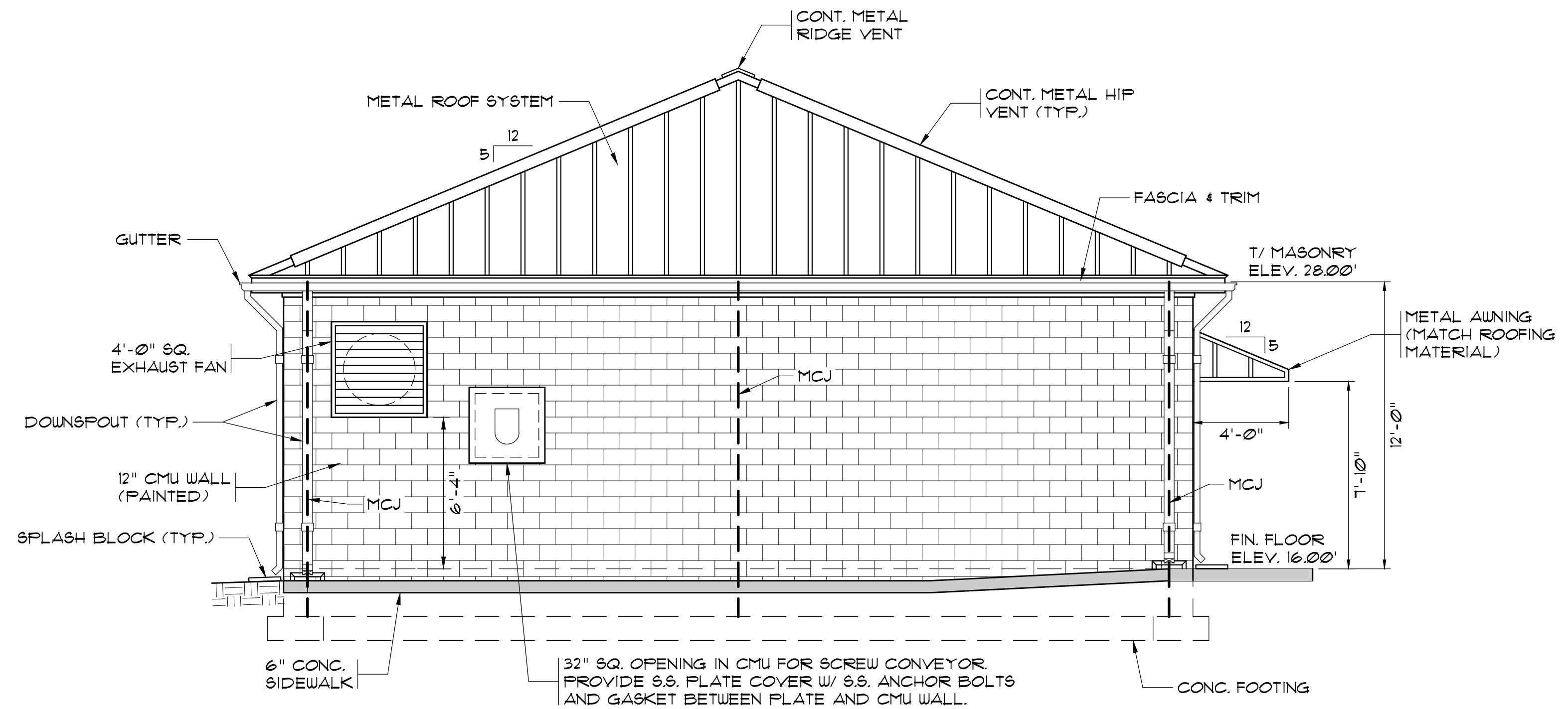
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SLUDGE DEWATERING SYSTEM
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AS-BUILT



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



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

AS-BUILT

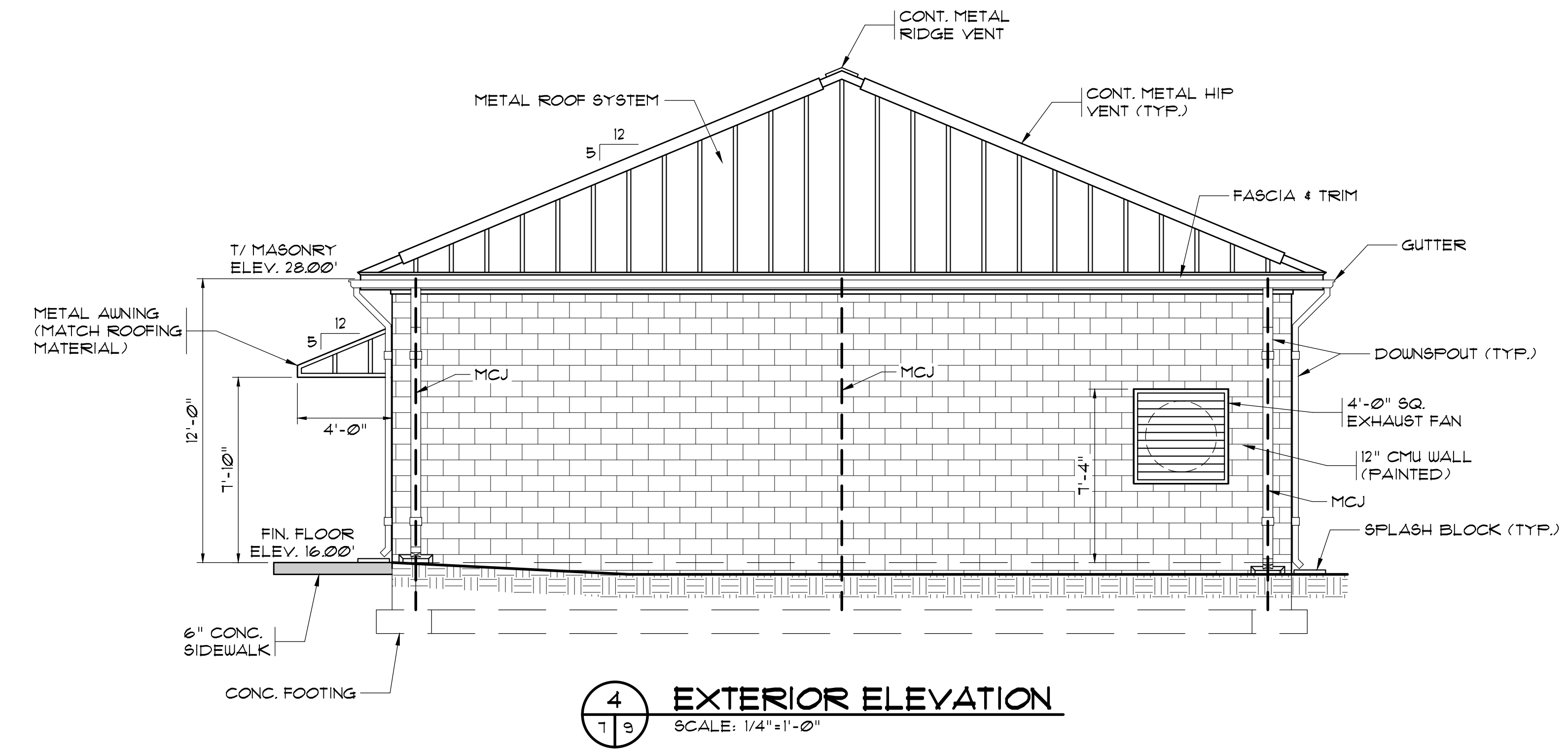
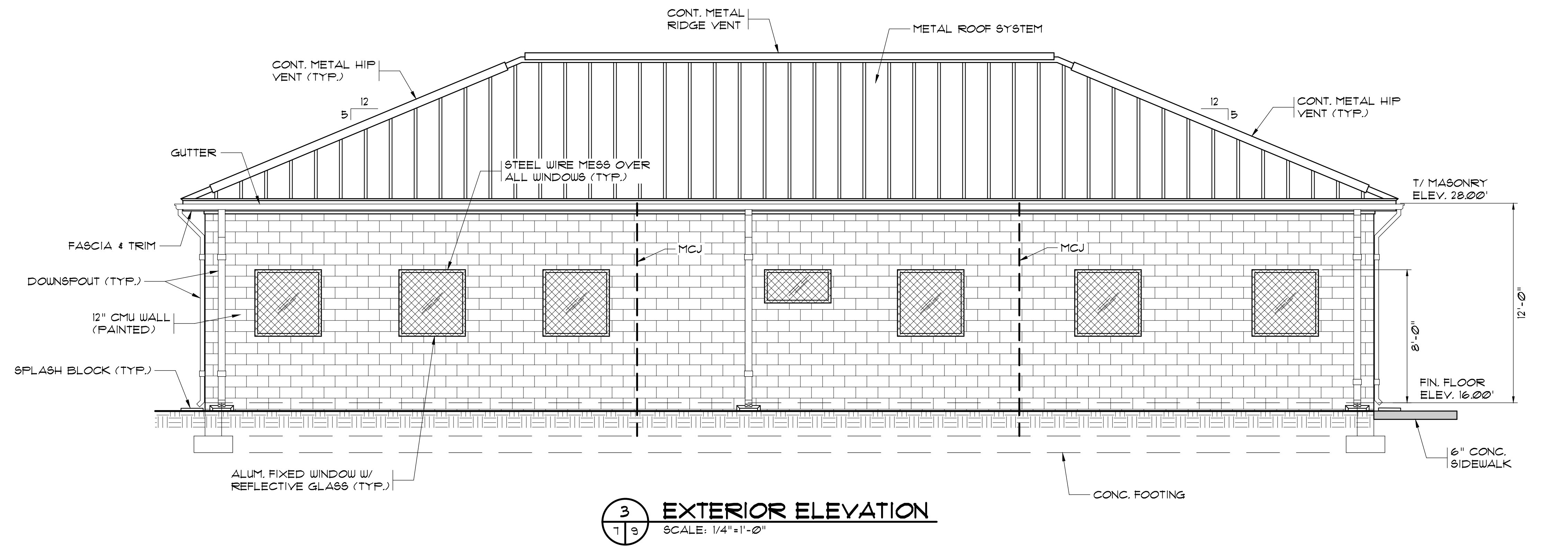
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SLUDGE PRESS BUILDING
EXTERIOR ELEVATIONS

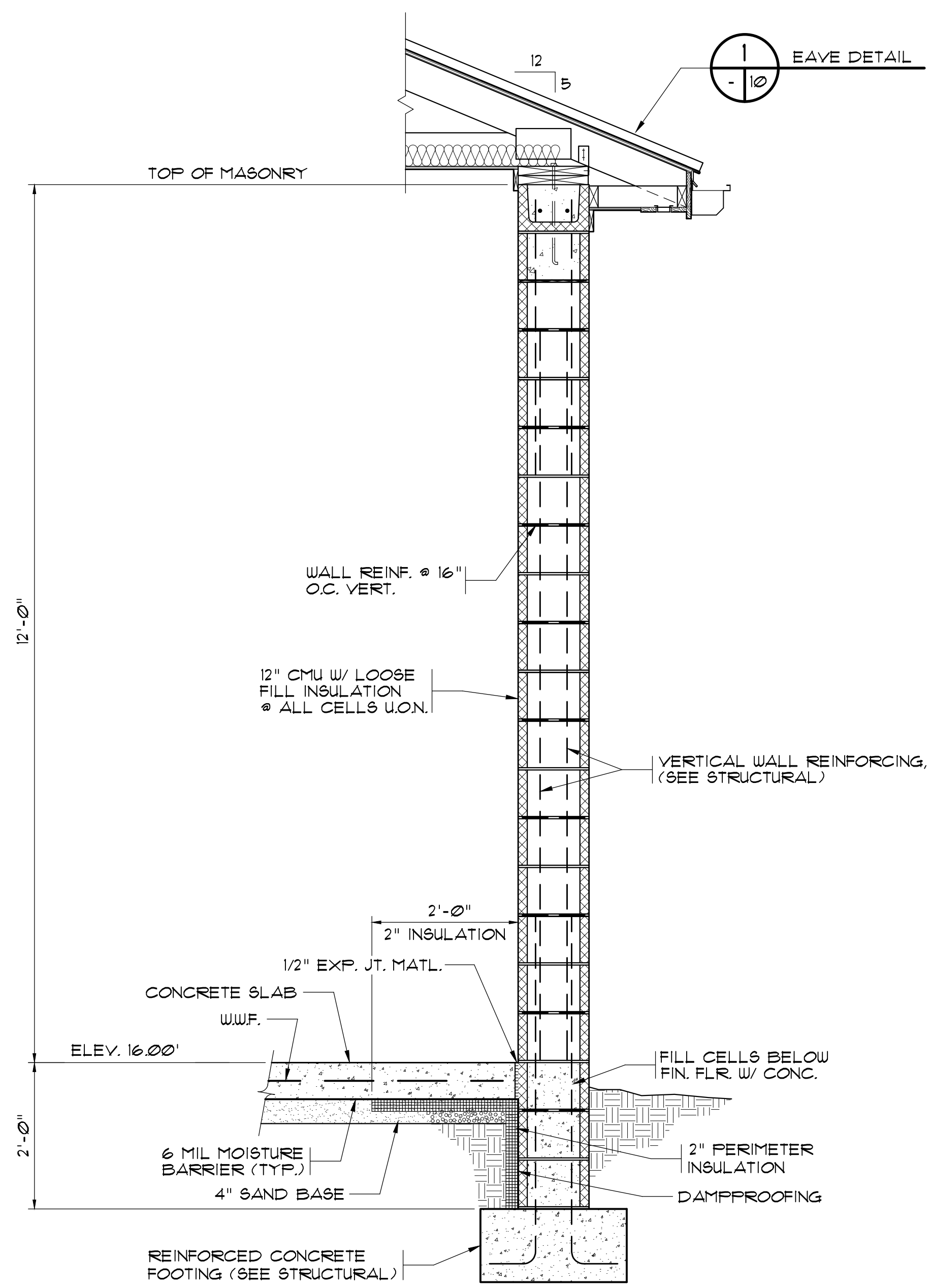
CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN
Date: FEB. 2012
Drawn: DC
Checked: JWM
Job No.: 30004
Sheet No.:
G-8
Of: 3 Version: 3

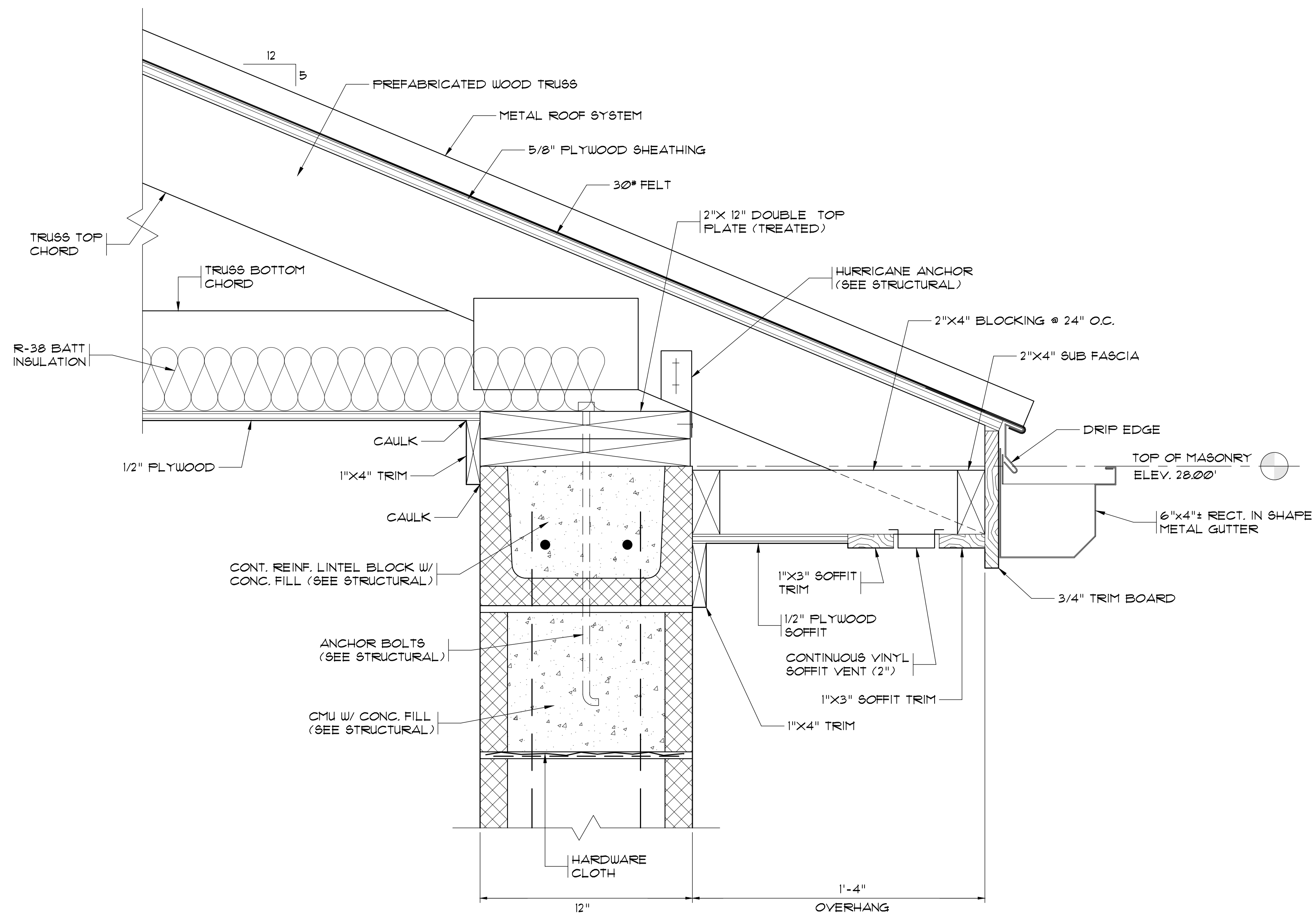


AS-BUILT

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SLUDGE PRESS BUILDING EXTERIOR ELEVATIONS		
CONWAY WWTP SLUDGE DEWATERING SYSTEM GRAND STRAND WATER & SEWER AUTHORITY		
Scale:	AS SHOWN	
Date:	FEB. 2012	
Drawn:	DC	
Checked:	JWM	
Job No.:	30004	
Sheet No.:	G-9	
Of: -	Version:	3



5
 1 | 10
TYP. EXTERIOR WALL SECTION
SLUDGE PRESS BUILDING
 SCALE: 3/4" = 1'-0"



1
 10
TYPICAL EAVE DETAIL
SLUDGE PRESS BUILDING
 SCALE: 3" = 1'-0"

RECORD DRAWING
 FEBRUARY 2012
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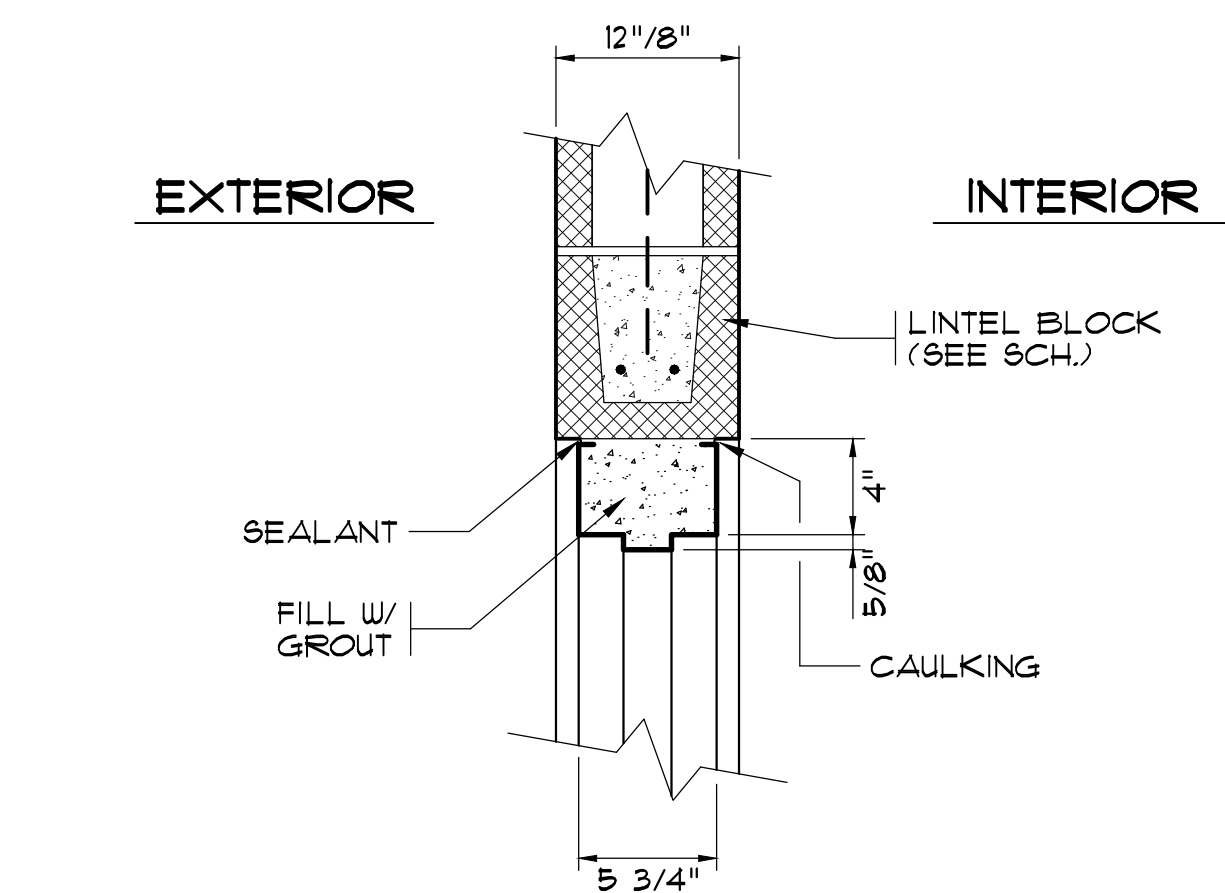
SLUDGE PRESS BUILDING
TYP. WALL SECTION AND
DETAILS

CONWAY WWTP
 SLUDGE DEWATERING SYSTEM
 GRAND STRAND WATER &
 SEWER AUTHORITY

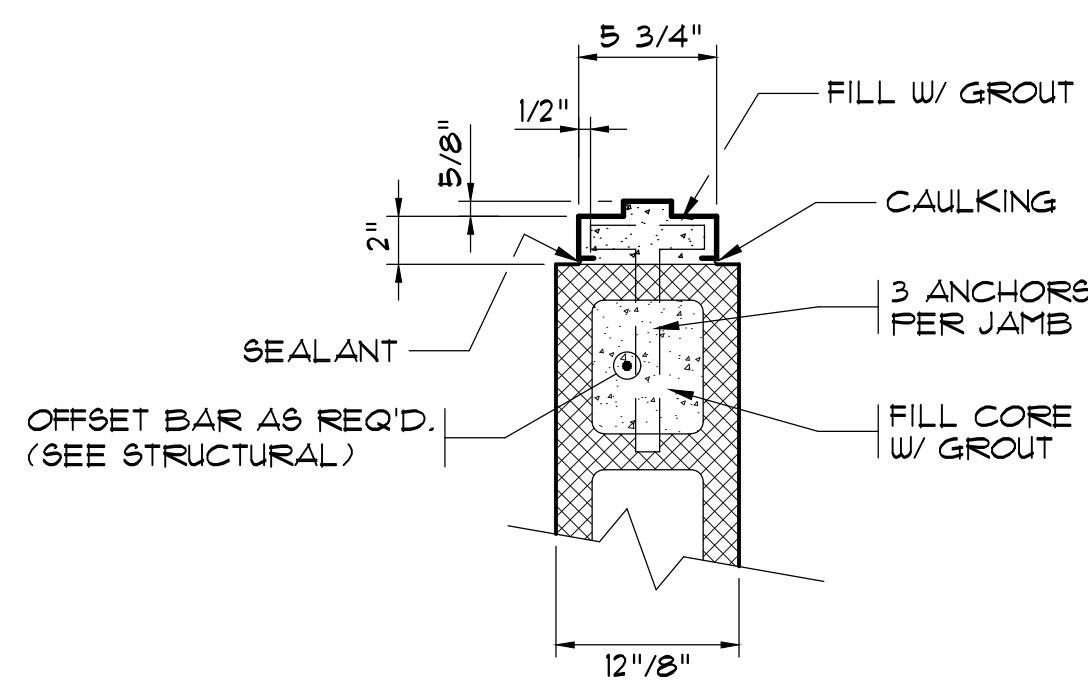
Scale: AS SHOWN
 Date: FEB. 2012
 Drawn: DC
 Checked: JWM
 Job No.: 30004
 Sheet No.:

G-10
 Of: 3 Version: 3

AS-BUILT



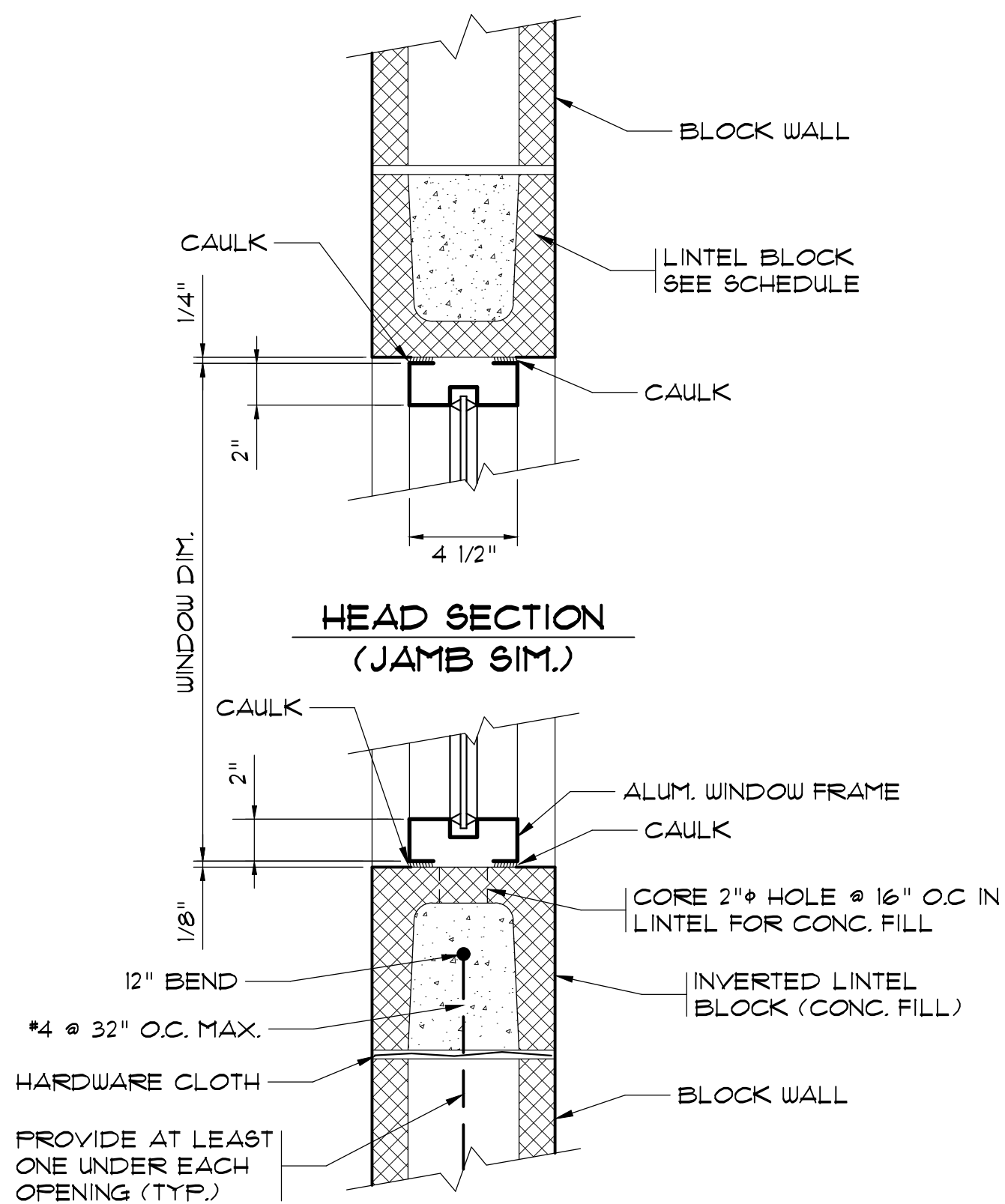
HEAD SECTION



JAMB SECTION

DOOR DETAILS

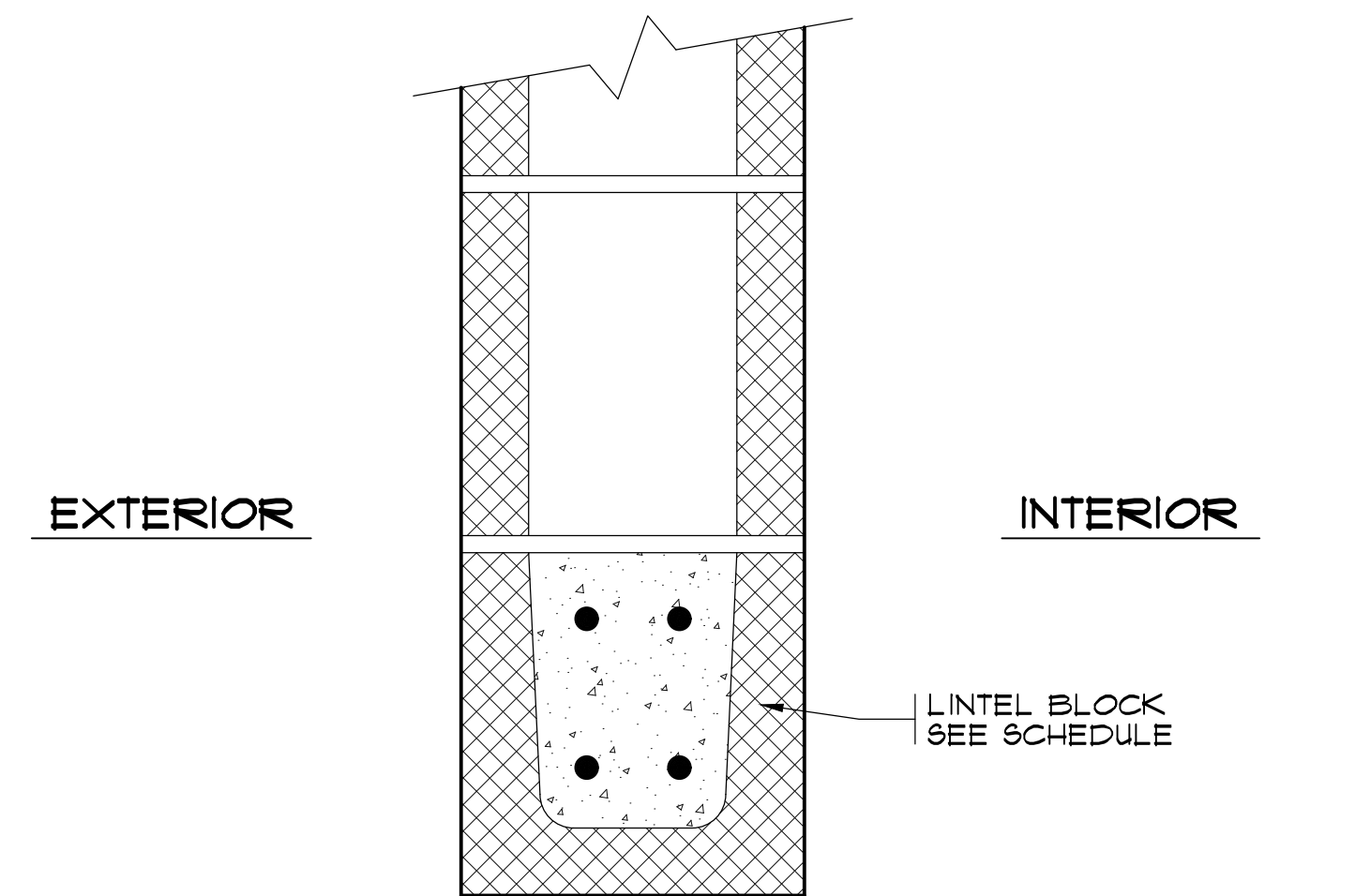
SCALE: 1 1/2" = 1'-0"



SILL SECTION

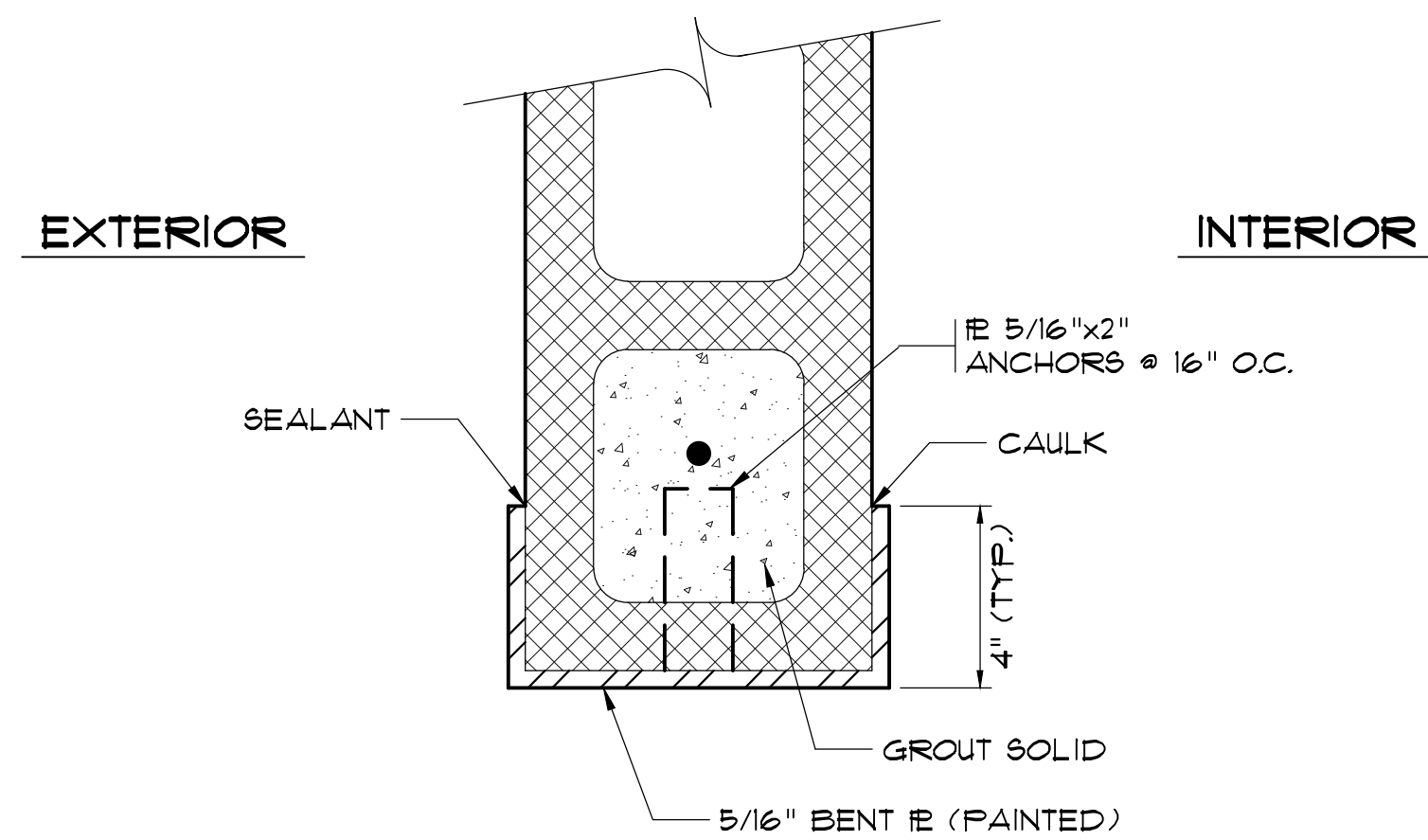
WINDOW DETAILS

N.T.S.



HEAD DETAIL @ LOUVERS AND FANS

N.T.S.



JAMB SECTION

OVER HEAD DOOR DETAIL

N.T.S.

AS-BUILT

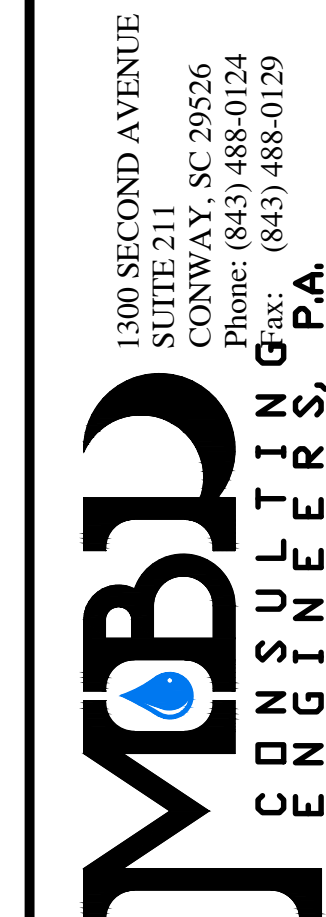
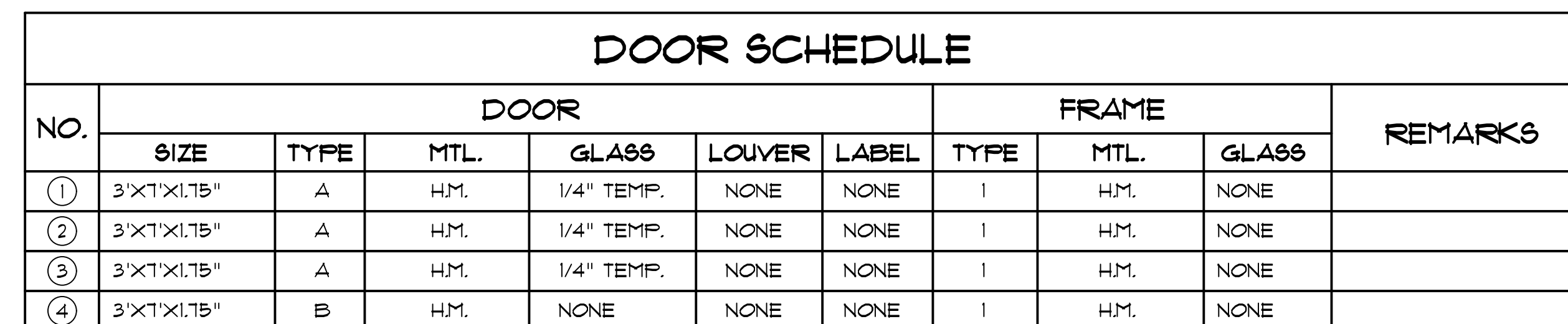
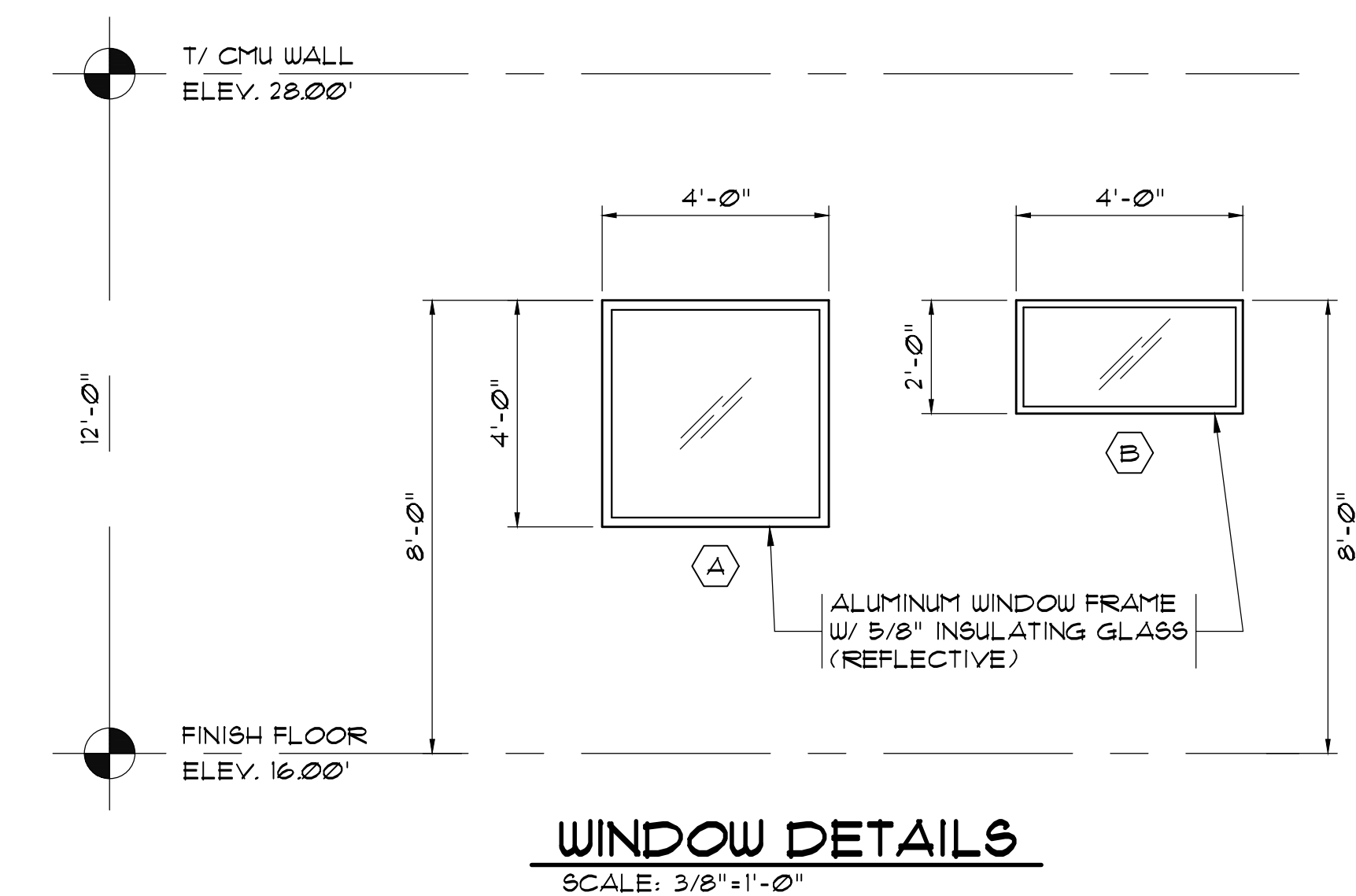
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SLUDGE PRESS BUILDING
DOOR AND WINDOW
DETAILS

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN
Date: FEB. 2012
Drawn: DC
Checked: JWM
Job No.: 30004
Sheet No.:
G-11
Of: 3 Version: 3

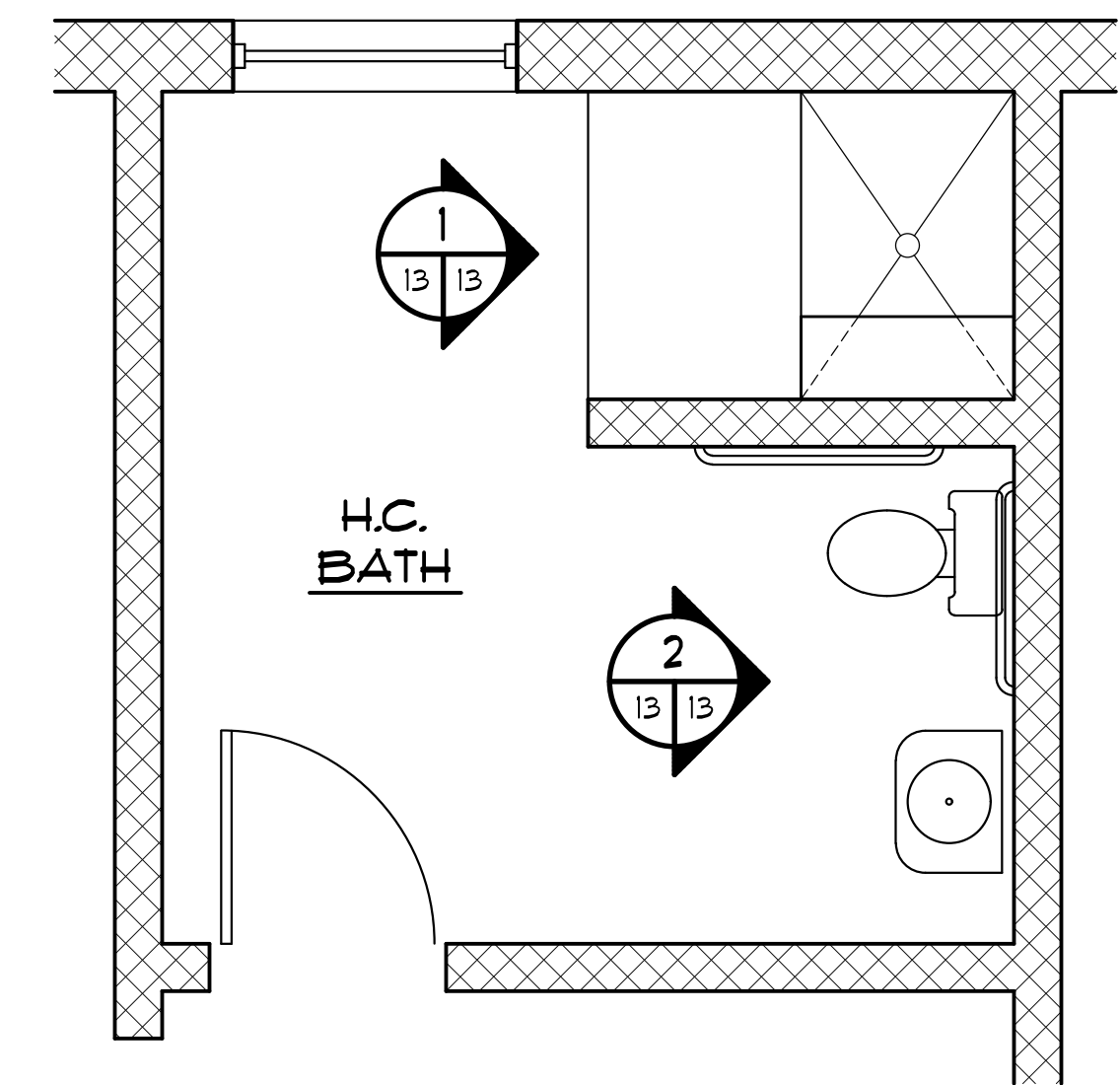
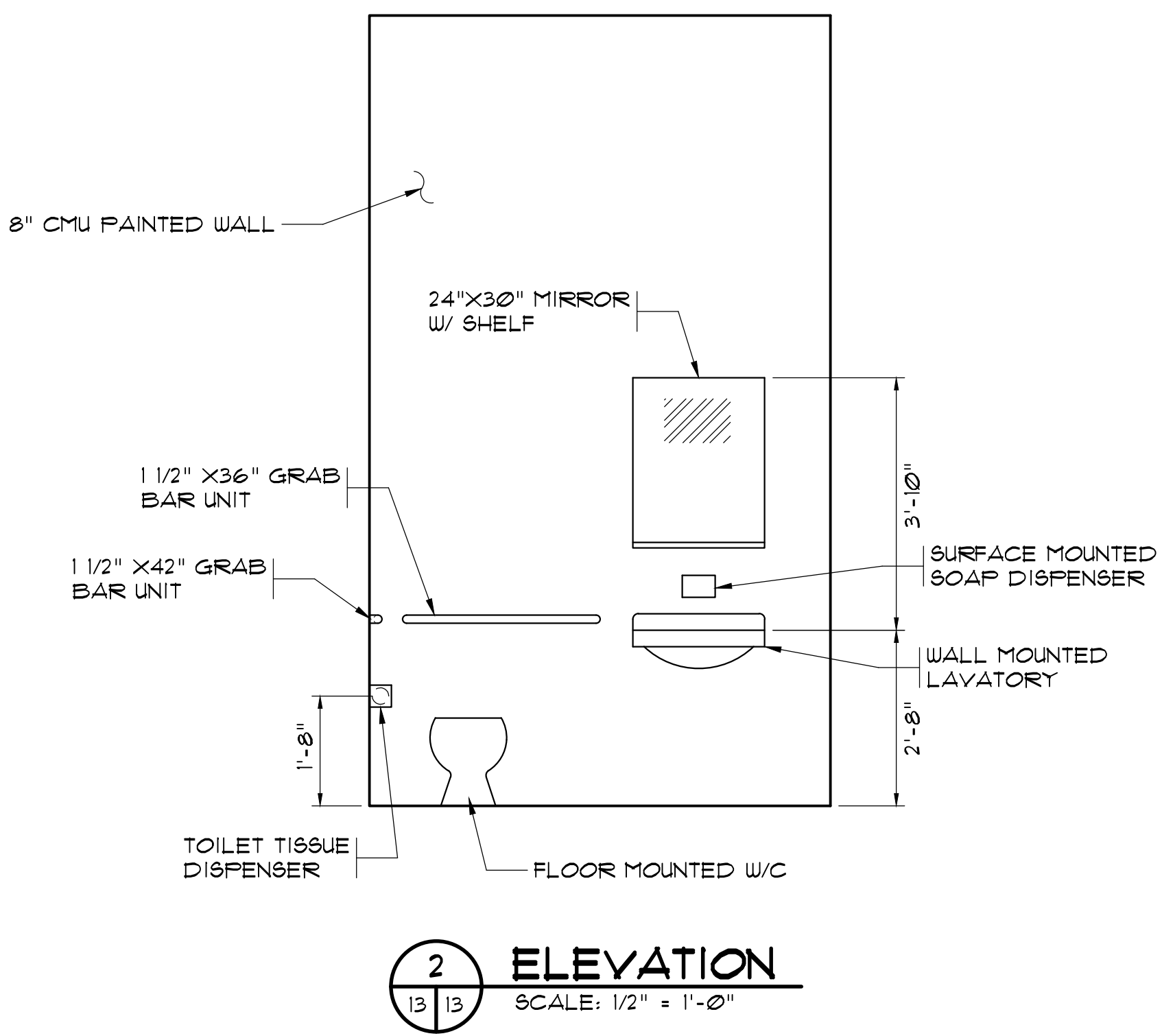
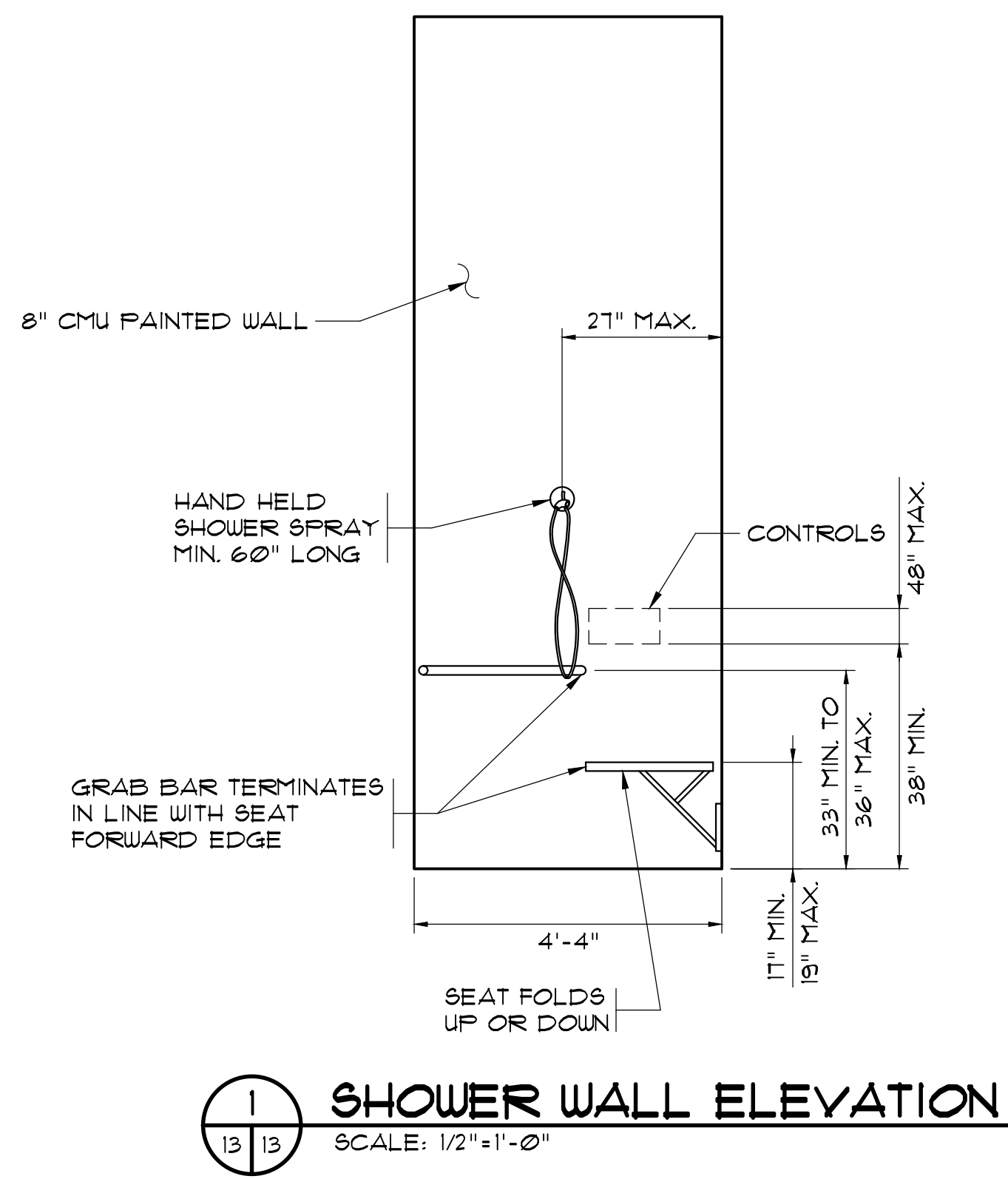


DOOR / WINDOW DETAILS AND ROLL-UP DOOR SECTION

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

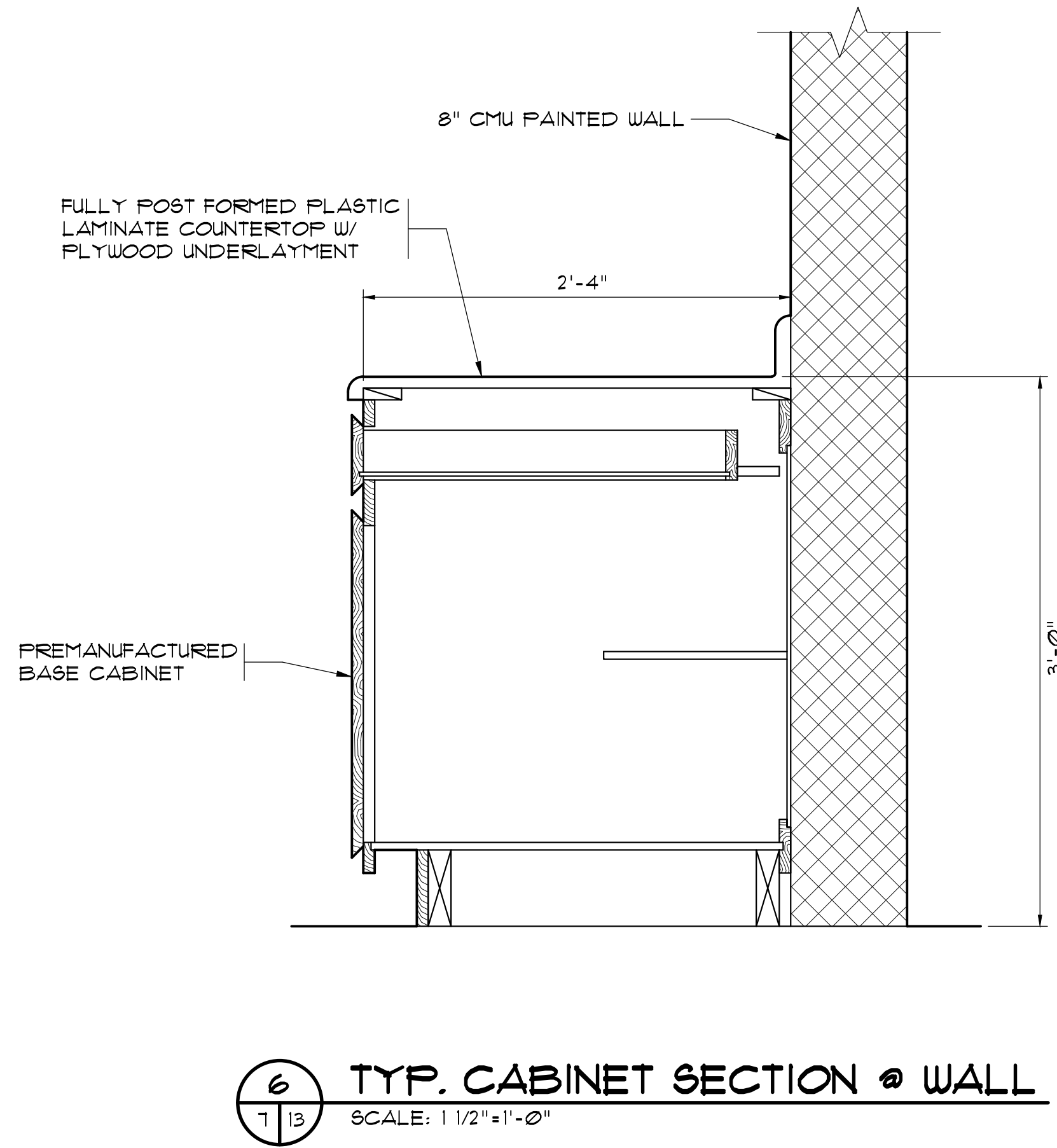
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Drawn:	DC
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Job No.:	30004
Sheet No.:	
G-12	
Of: -	Version: 3

AS-BUILT

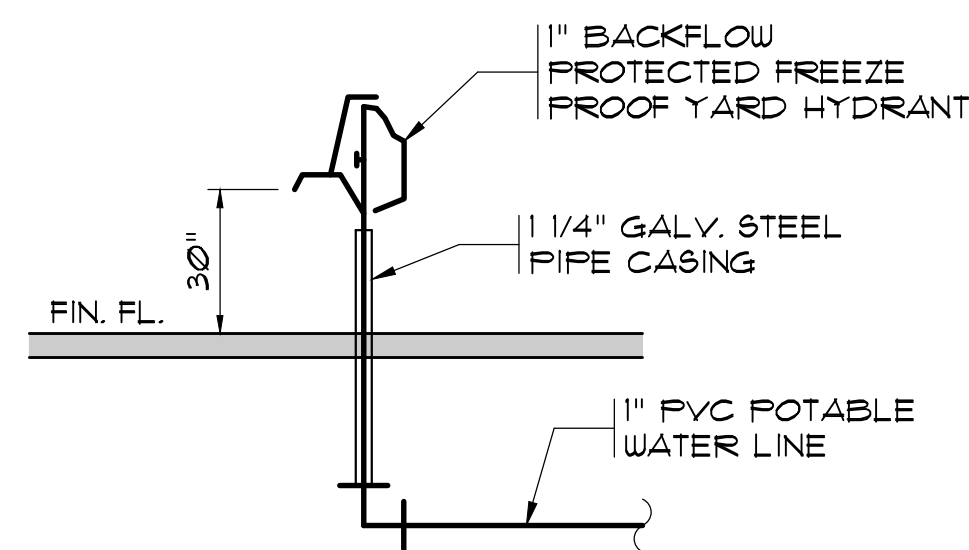
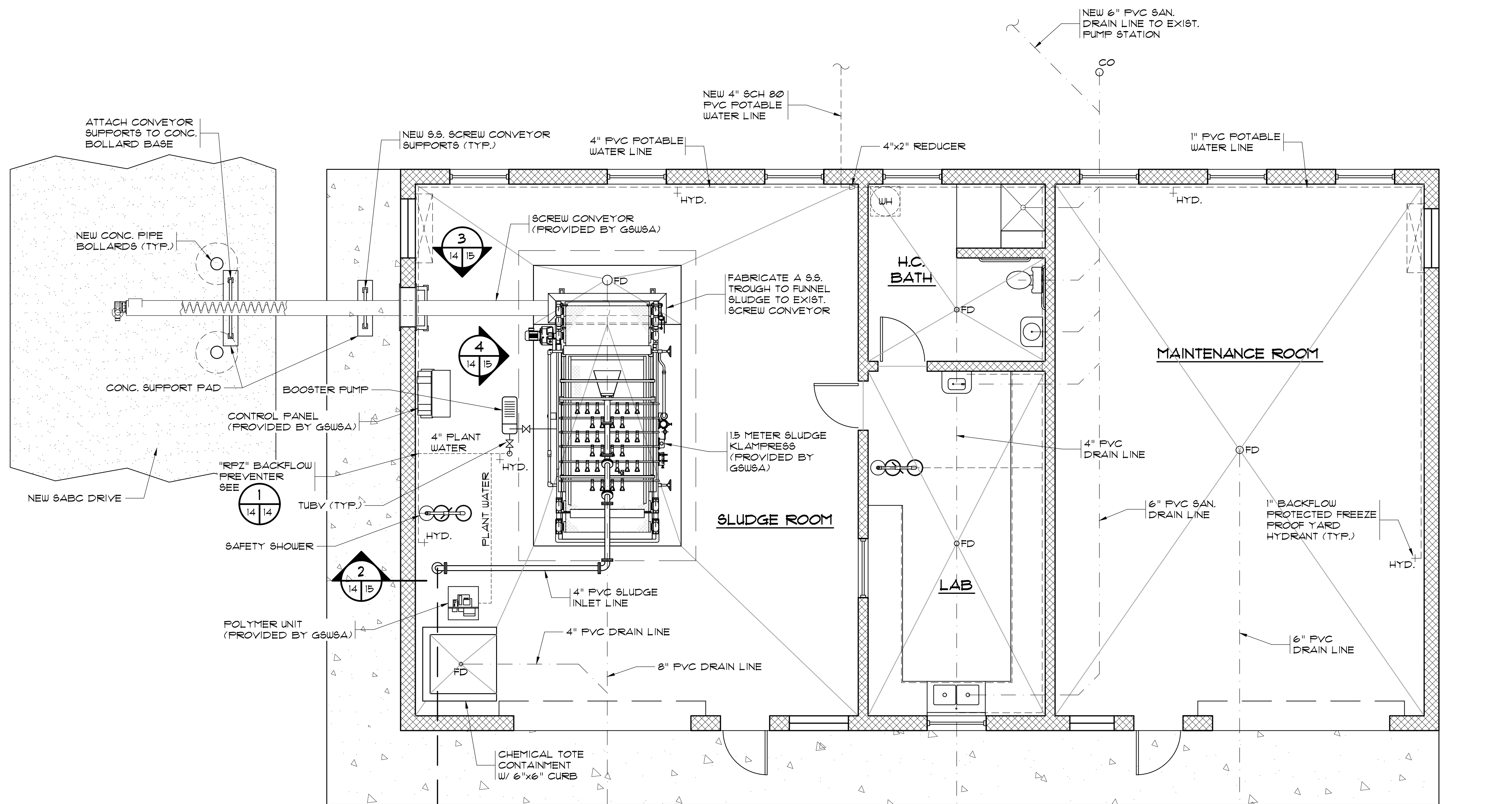


HANDICAP BATH ROOM LAYOUT

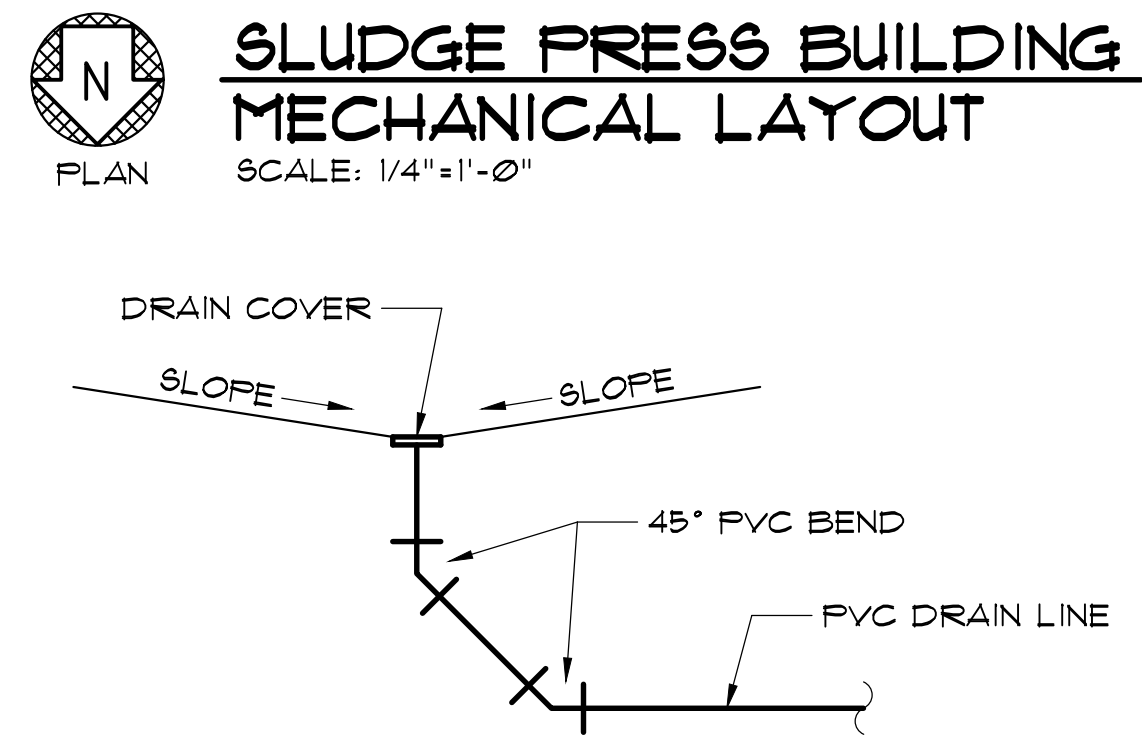
SCALE: 3/8"=1'-0"



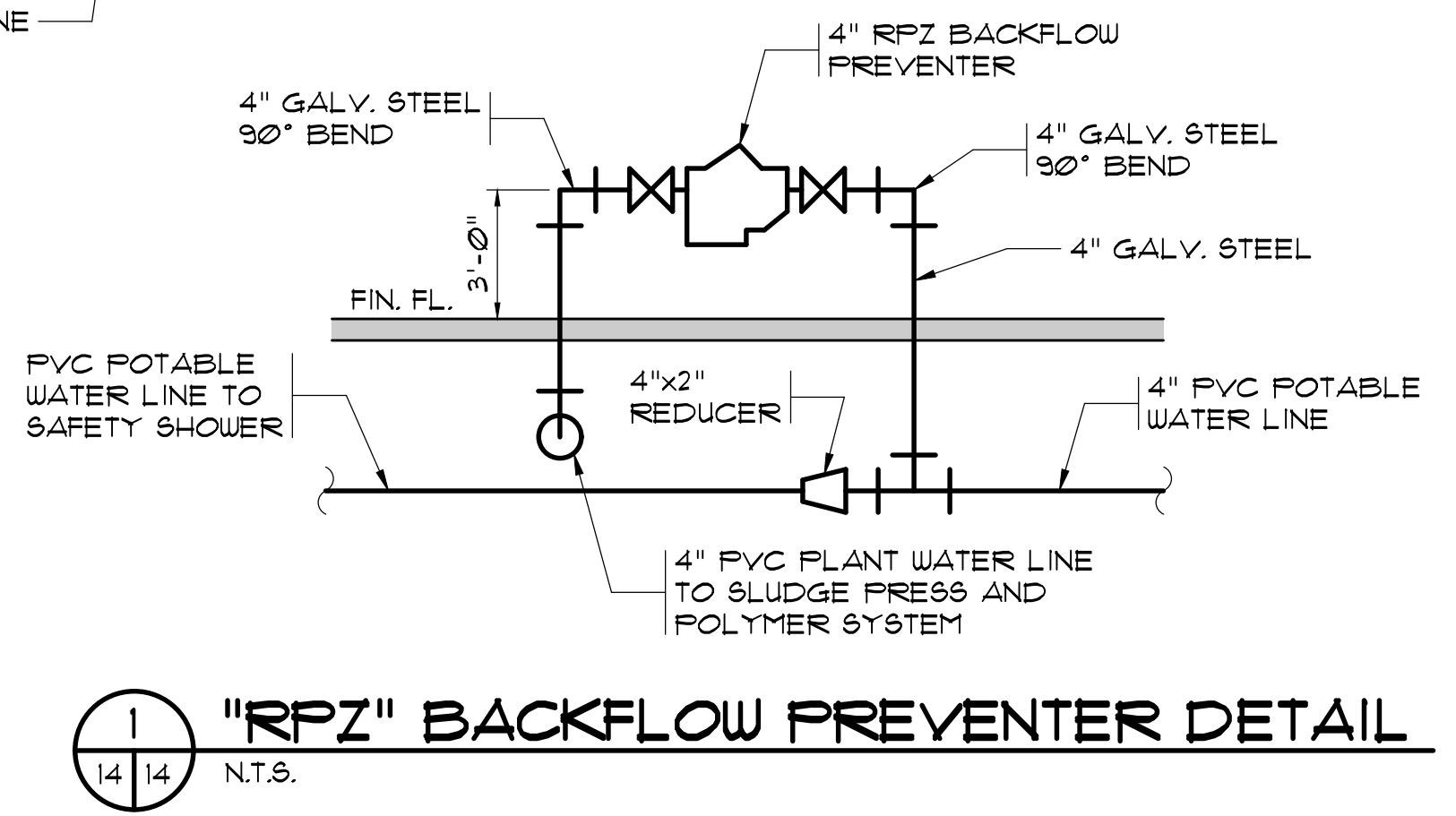
AS-BUILT



**1" BACKFLOW PROTECTED FREEZE
PROOF YARD HYDRANT DETAIL**
N.T.S.



TYP. FLOOR DRAIN DETAIL
N.T.S.



"RPZ" BACKFLOW PREVENTER DETAIL
N.T.S.

AS-BUILT

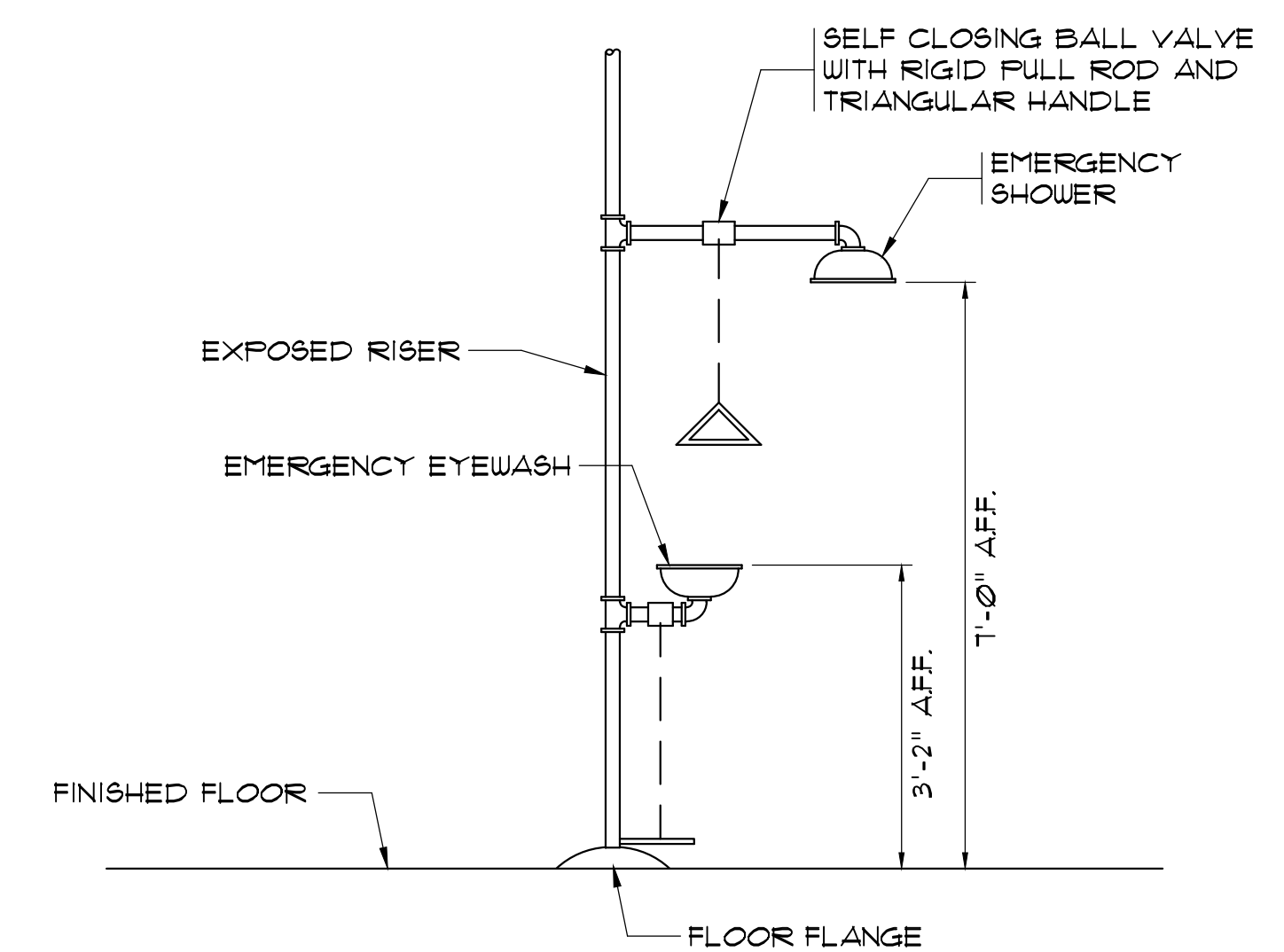
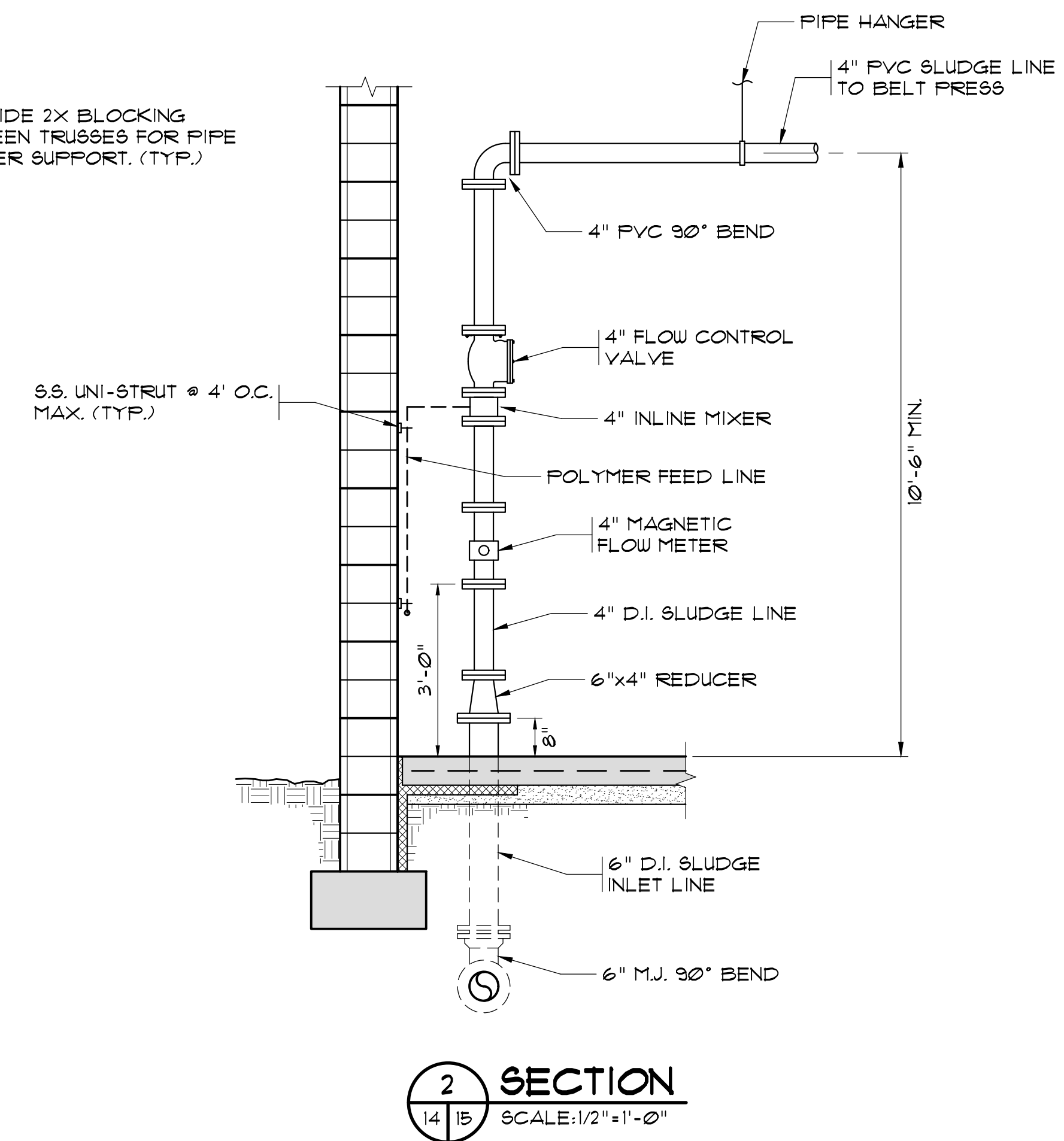
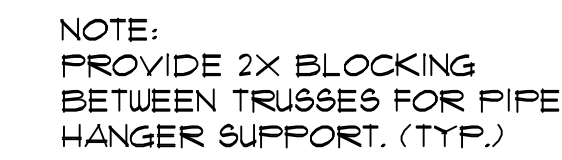
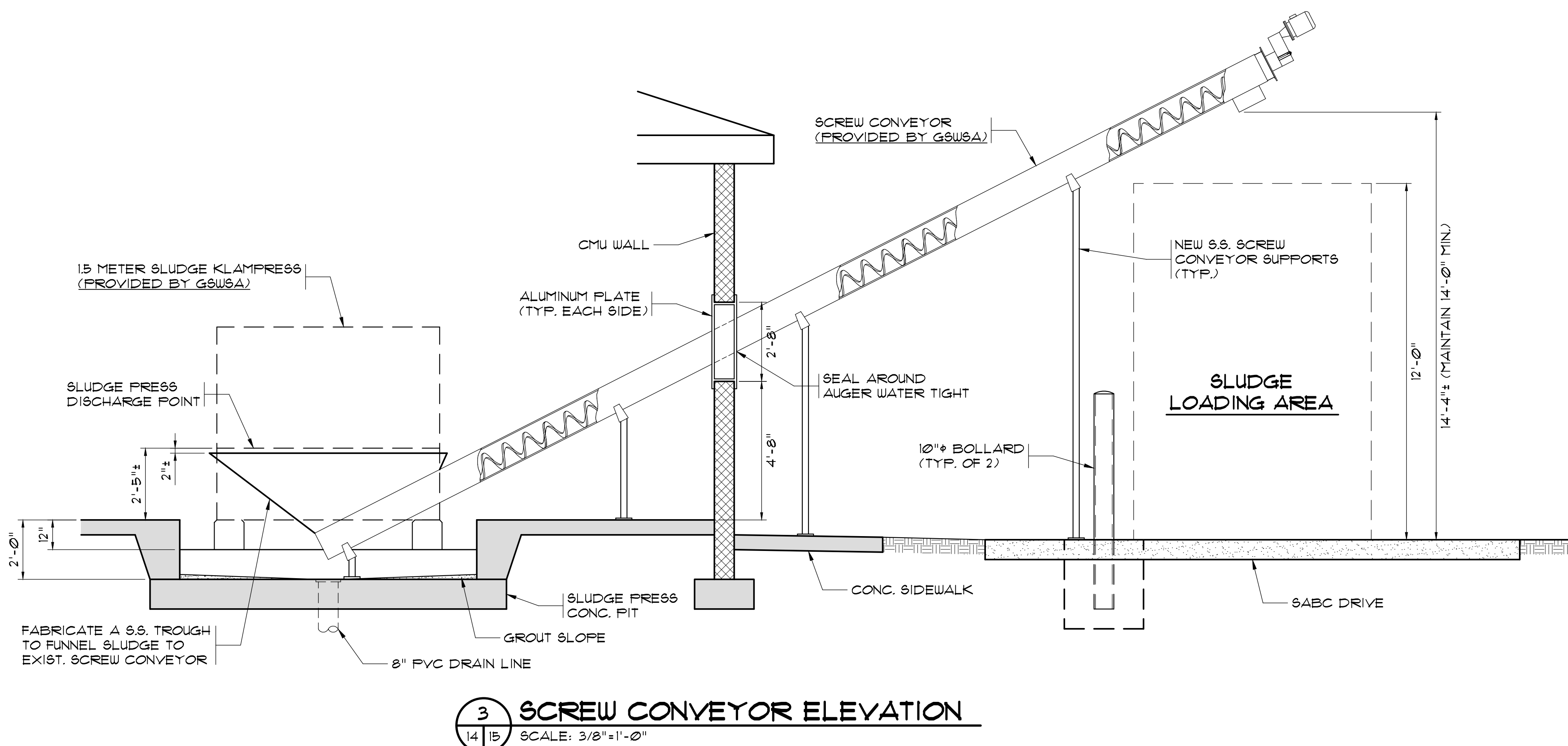
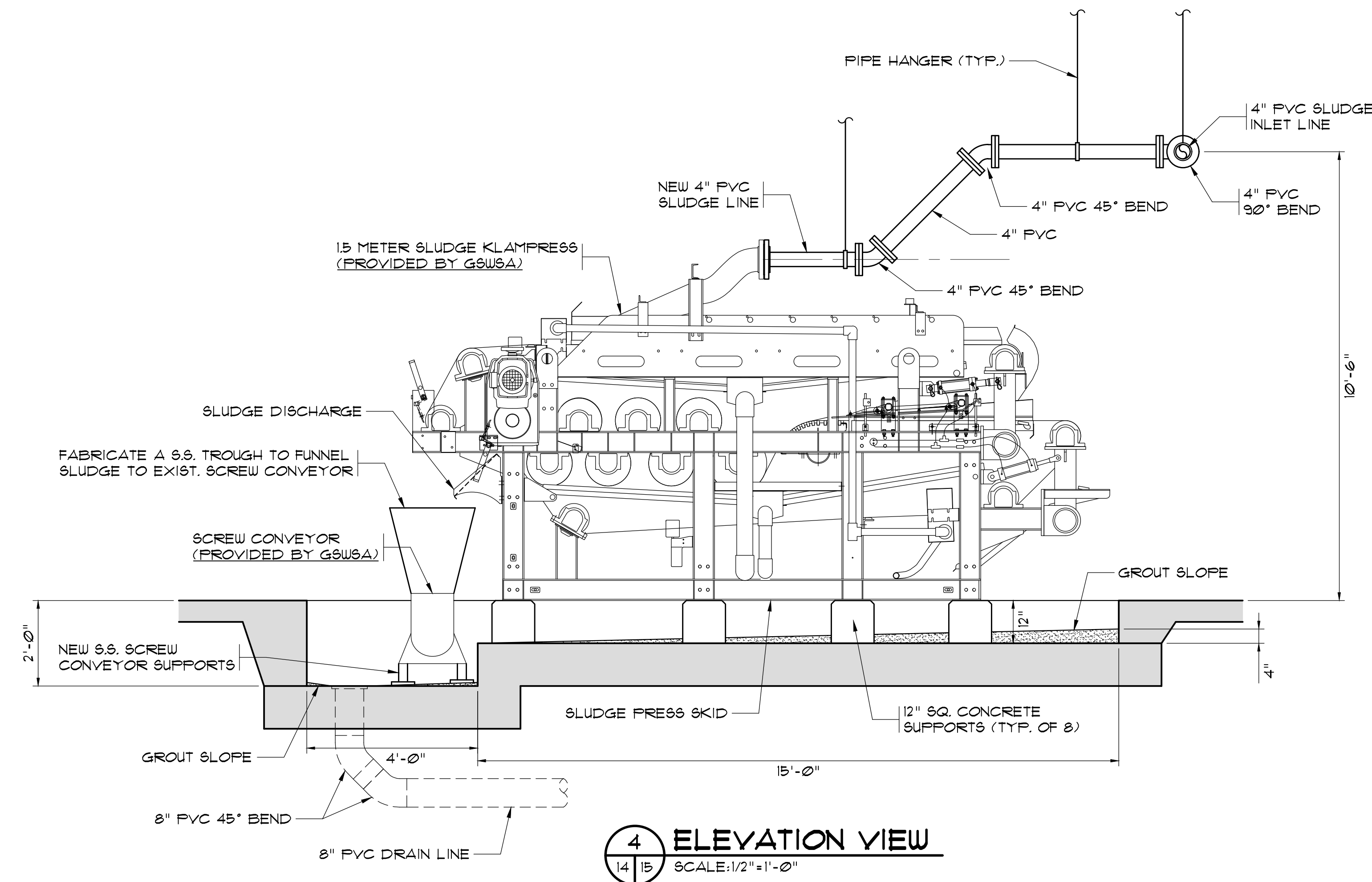
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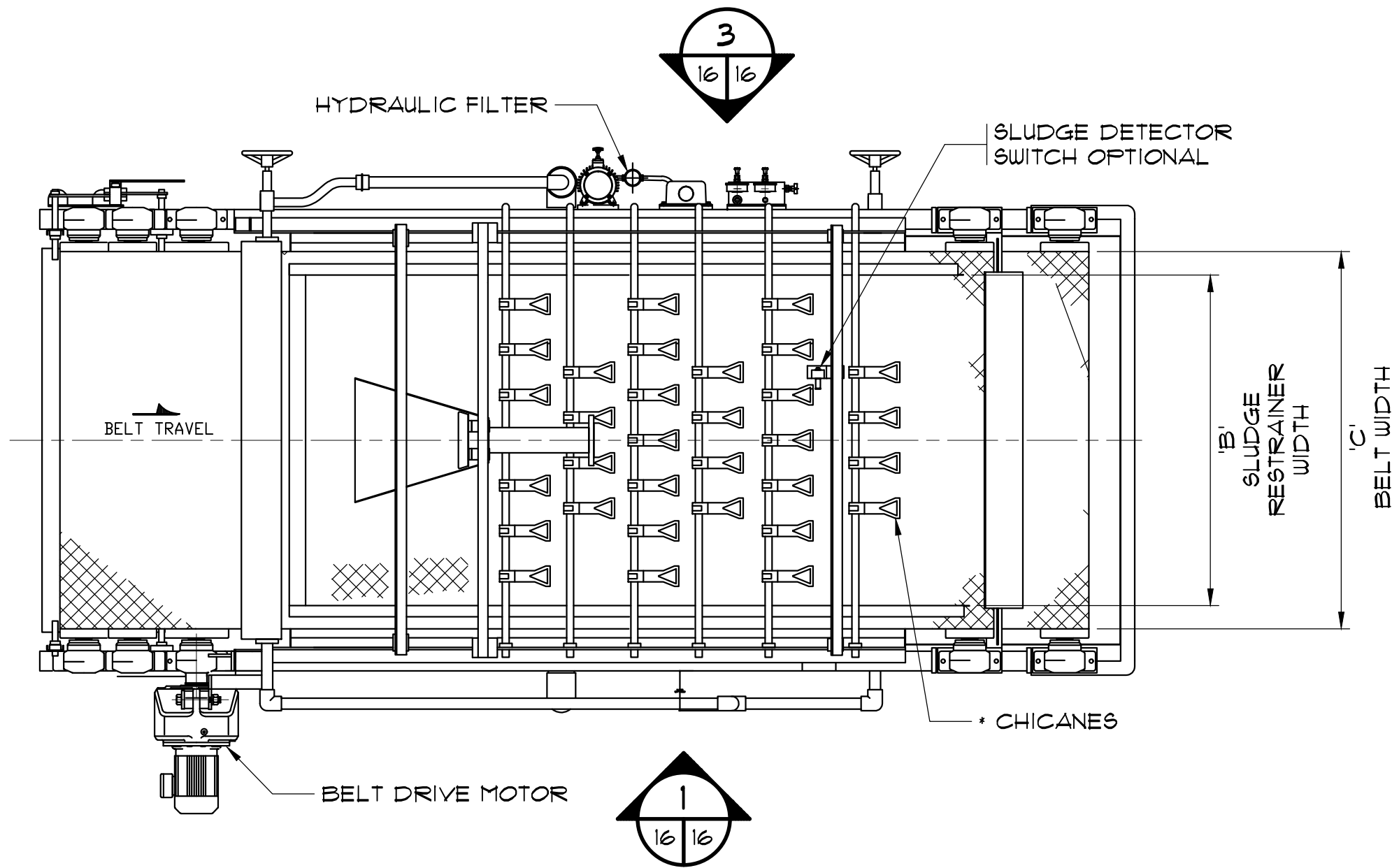
**SLUDGE PRESS BUILDING
MECHANICAL LAYOUT**

**CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY**

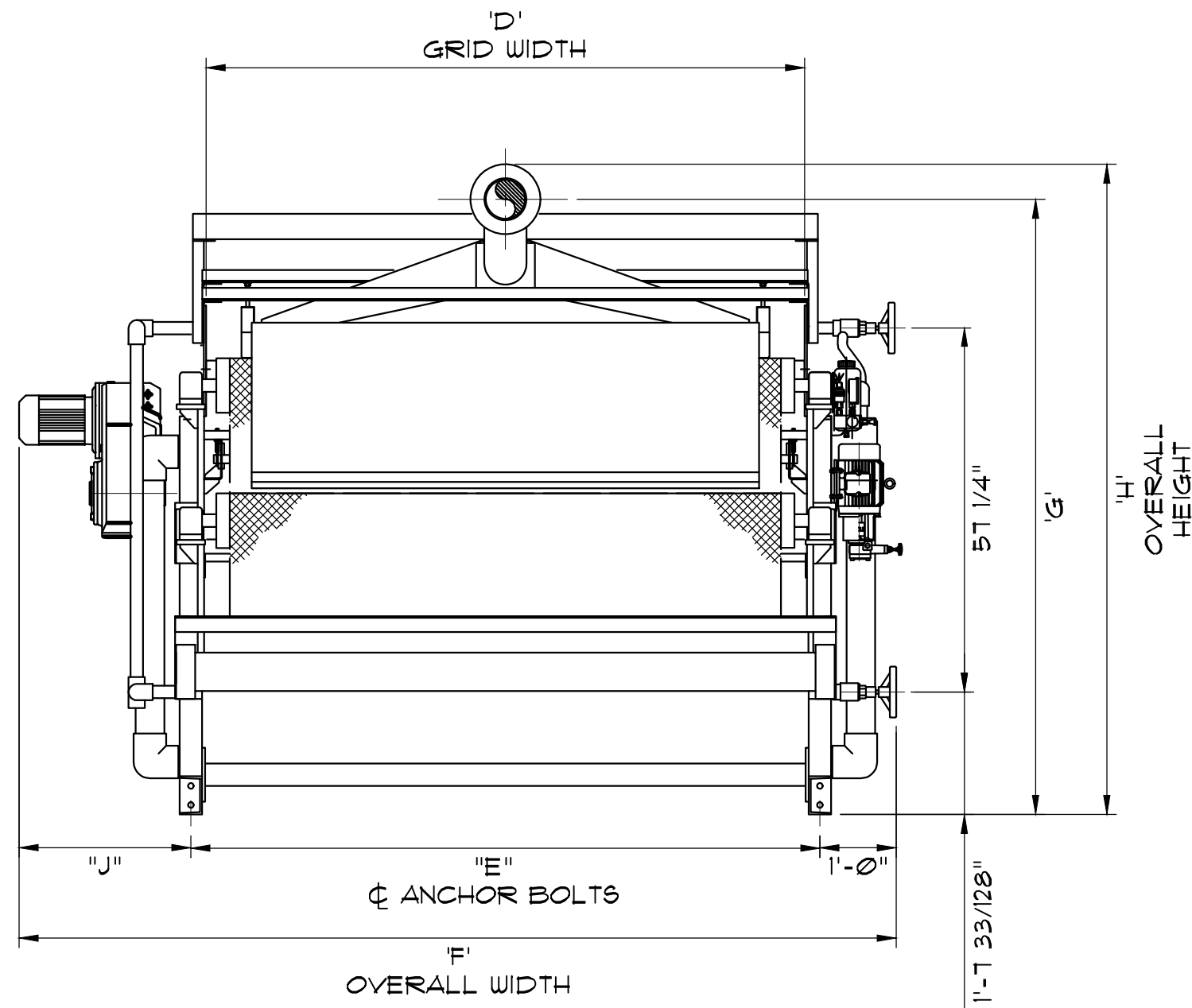
Scale: AS SHOWN
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Job No.: 30004
Sheet No.:
G-14
Of: 3 Version: 3



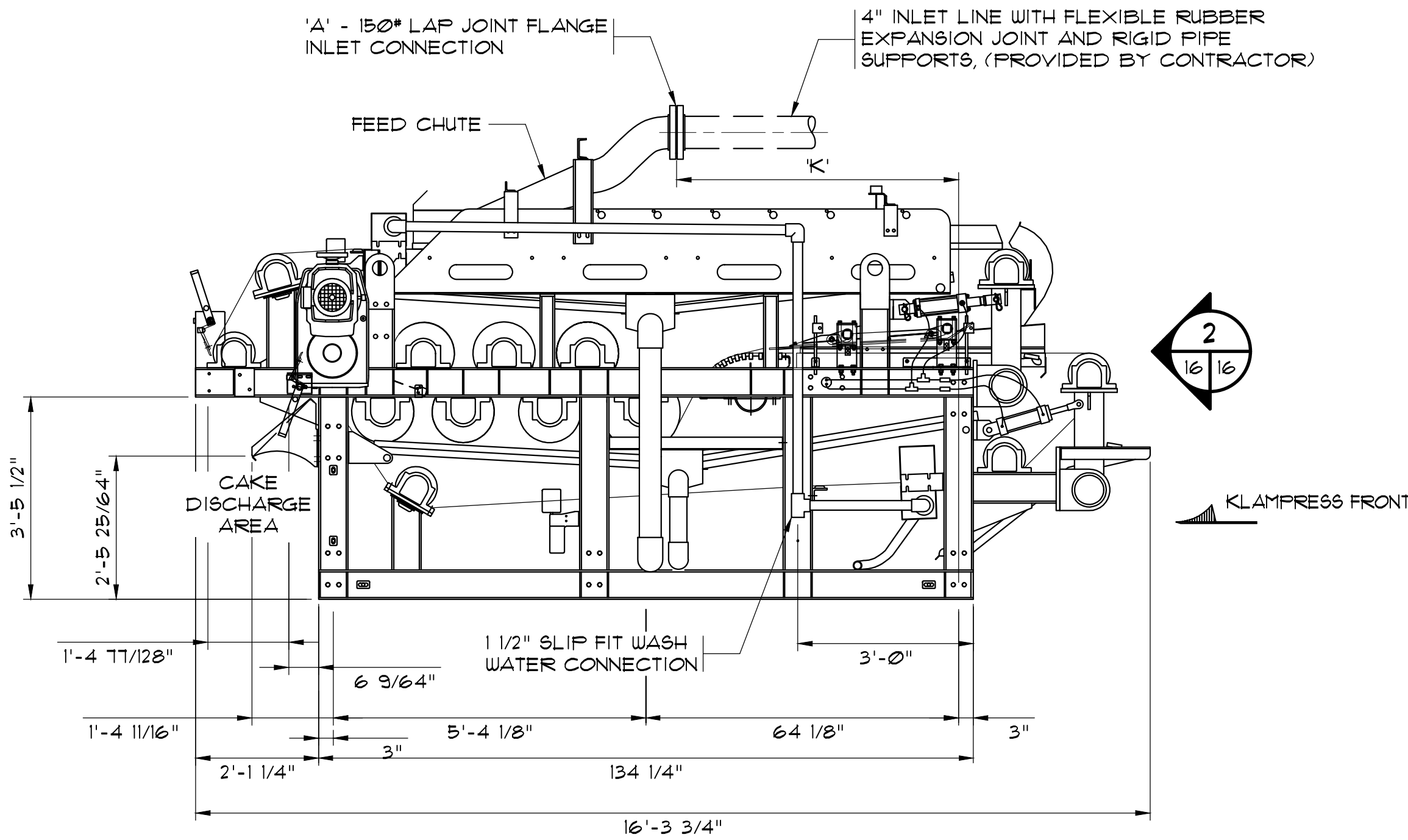
KLAMPRESS	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	No. OF CHICANES STD/OPT	STATIC WEIGHT	DYNAMIC WEIGHT
1 METER	4"	59"	47 1/4"	59 7/8"	59 7/8"	93 13/16"	94 15/16"	99 7/16"	23 15/16"	57 7/8"	15/27	13,300 LBS	14,000 LBS
1.5 METER	4"	59"	67 1/2"	73 7/8"	78 7/8"	115 13/16"	94 15/16"	99 7/16"	24 15/16"	57 7/8"	21/39	15,500 LBS	16,092 LBS
2 METER	6"	73"	80 3/8"	93 7/8"	98 7/8"	138 19/16"	98 7/8"	102 3/8"	28 1/16"	55 7/8"	33/51	18,400 LBS	21,050 LBS



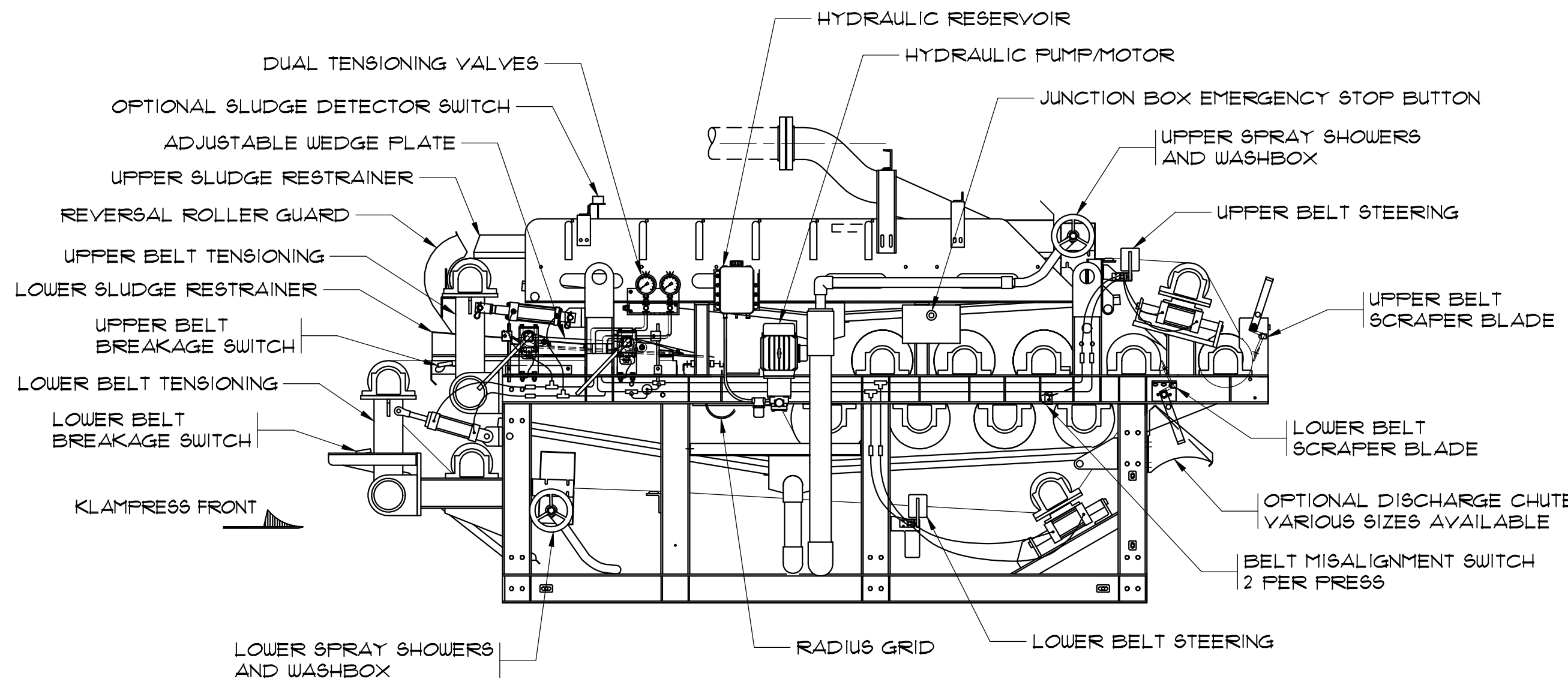
BELT PRESS - LAYOUT
(PROVIDED BY GSWSA)
SCALE: 1/2" = 1'-0"



BELT PRESS - ELEVATION
(PROVIDED BY GSWSA)
SCALE: 1/2" = 1'-0"



BELT PRESS - ELEVATION
(PROVIDED BY GSWSA)
SCALE: 1/2" = 1'-0"



BELT PRESS - ELEVATION
(PROVIDED BY GSWSA)
SCALE: 1/2" = 1'-0"

AS-BUILT

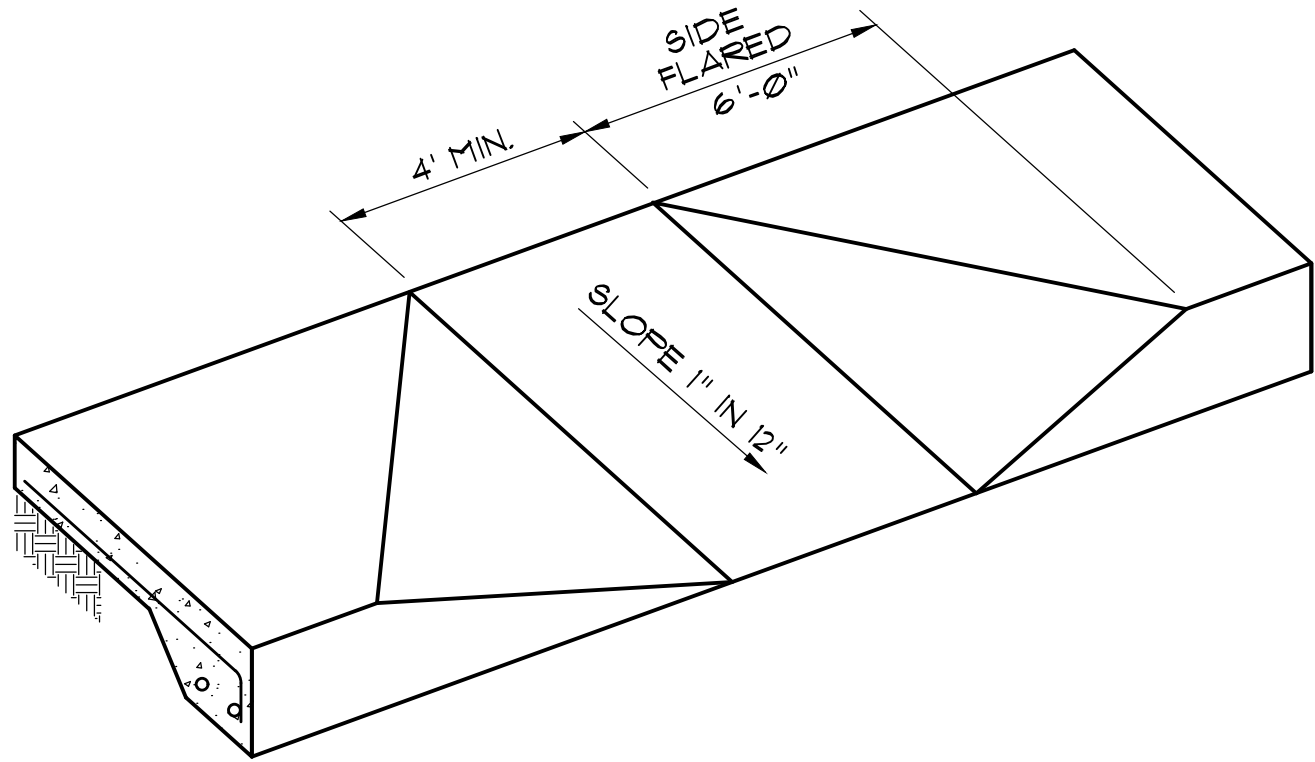
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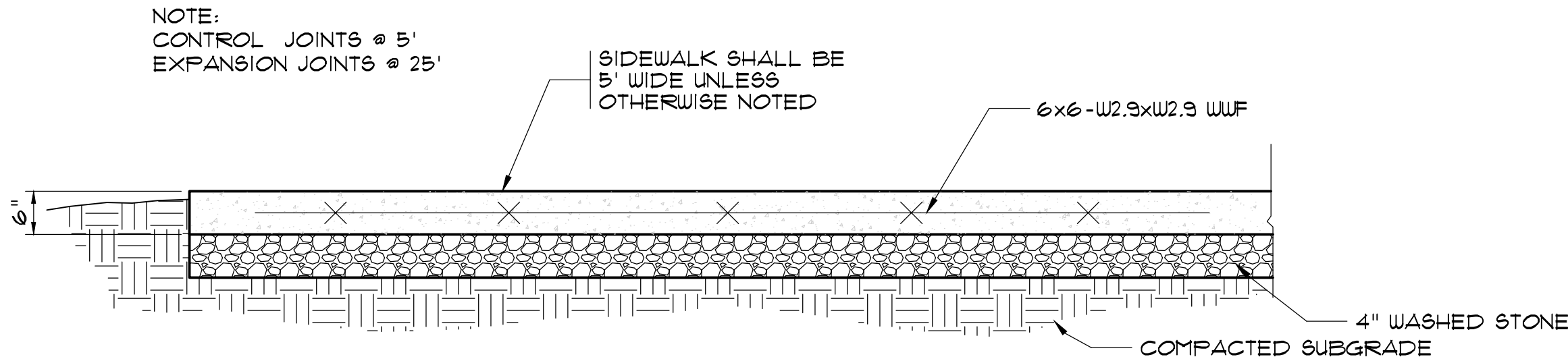
SLUDGE PRESS LAYOUT
AND ELEVATIONS

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

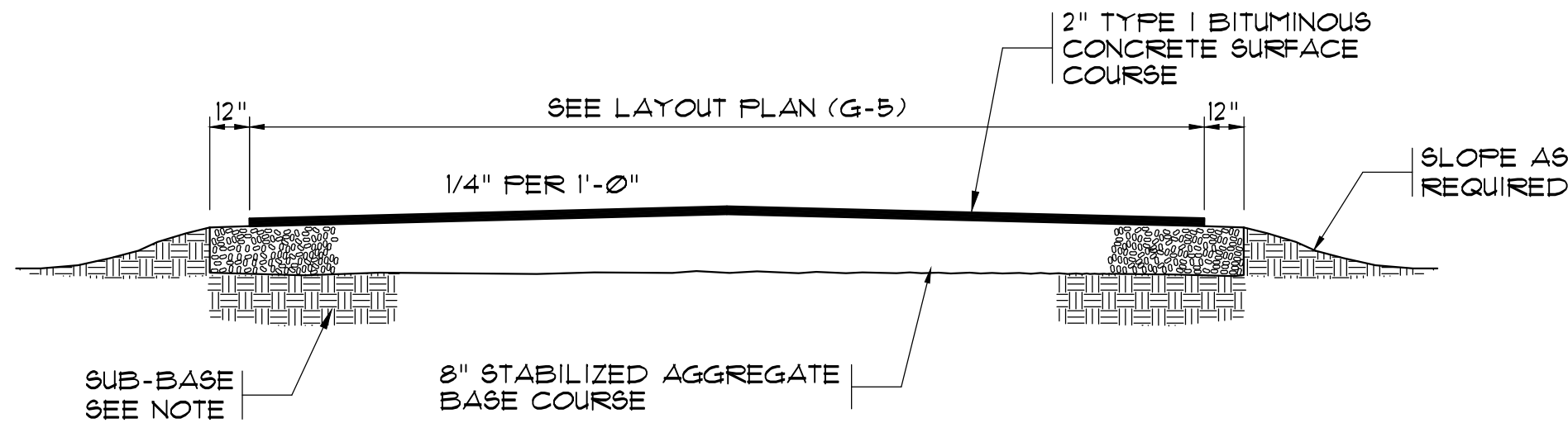
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Sheet No.:
G-16
Of: 1 Version: 3



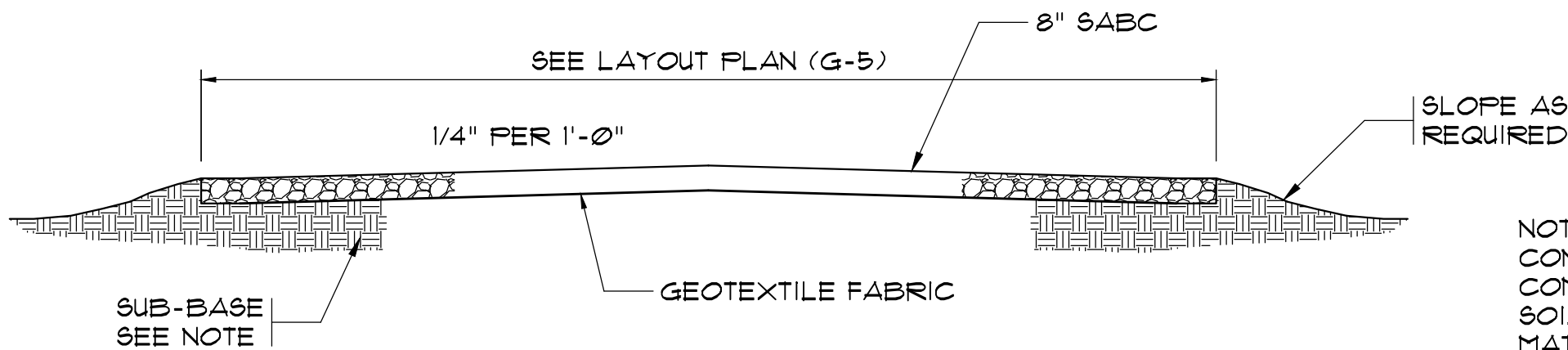
HANDICAP RAMP DETAIL
N.T.S.



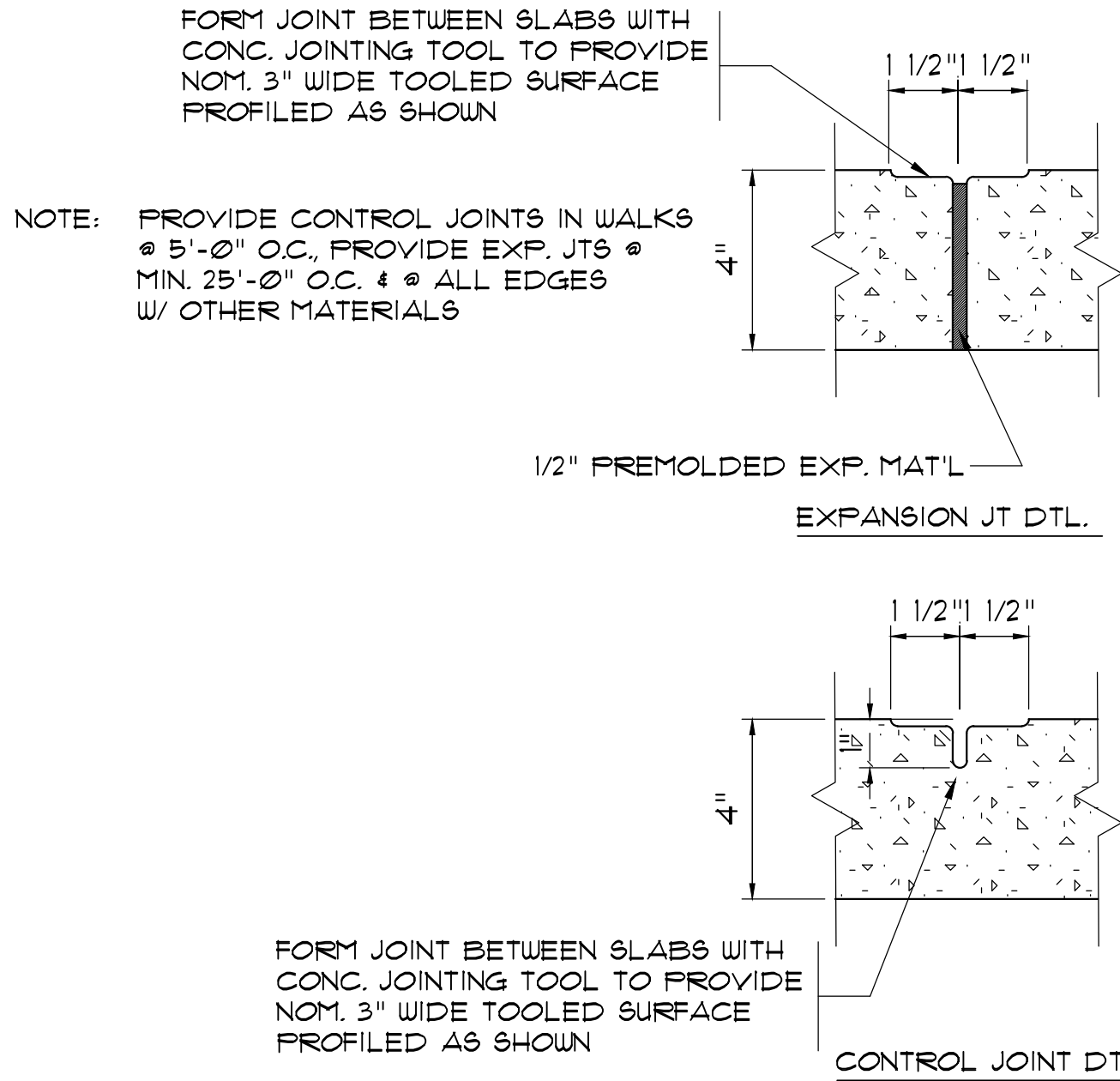
SIDEWALK DETAIL
N.T.S.



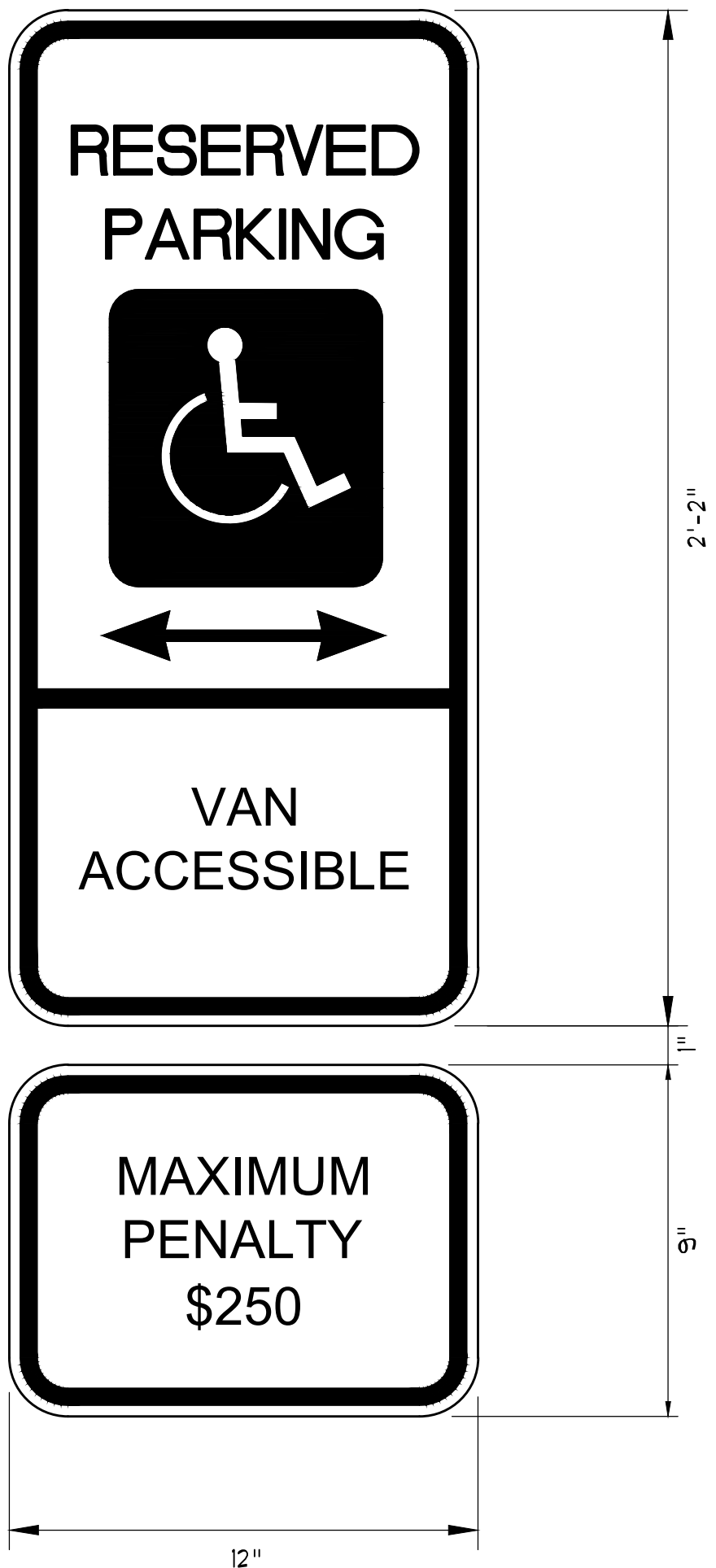
TYPICAL ASPHALT SECTION W/OUT CURB & GUTTER
N.T.S.



TYPICAL SABC ROAD SECTION
N.T.S.

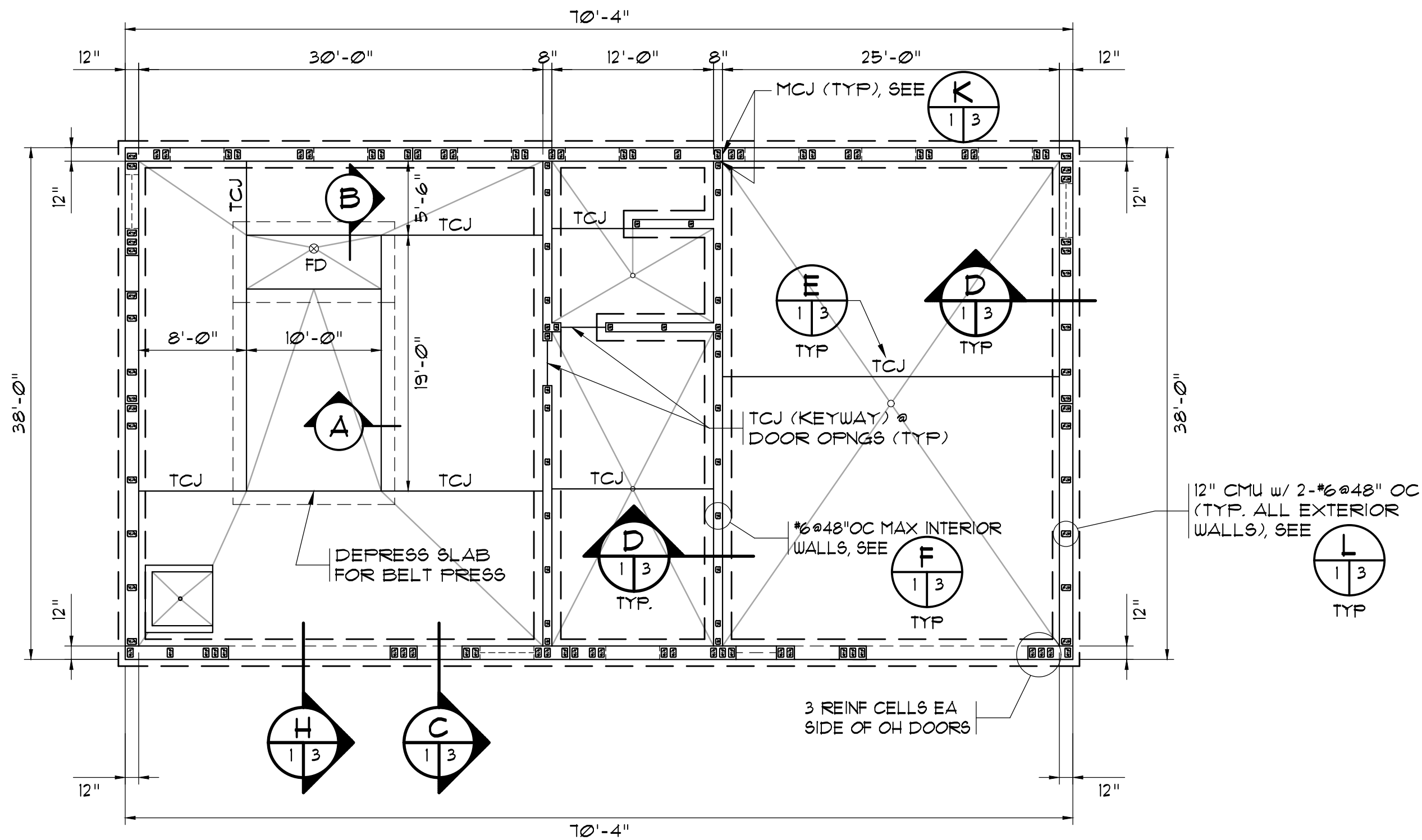


CONTROL JOINT AND EXPANSION JOINT DETAIL
N.T.S.



HC ACCESSIBLE PARKING SIGN
N.T.S.

NOTES:
HANDICAP SIGN SHOULD CONFORM WITH SOUTH CAROLINA ACCESSIBILITY CODE.

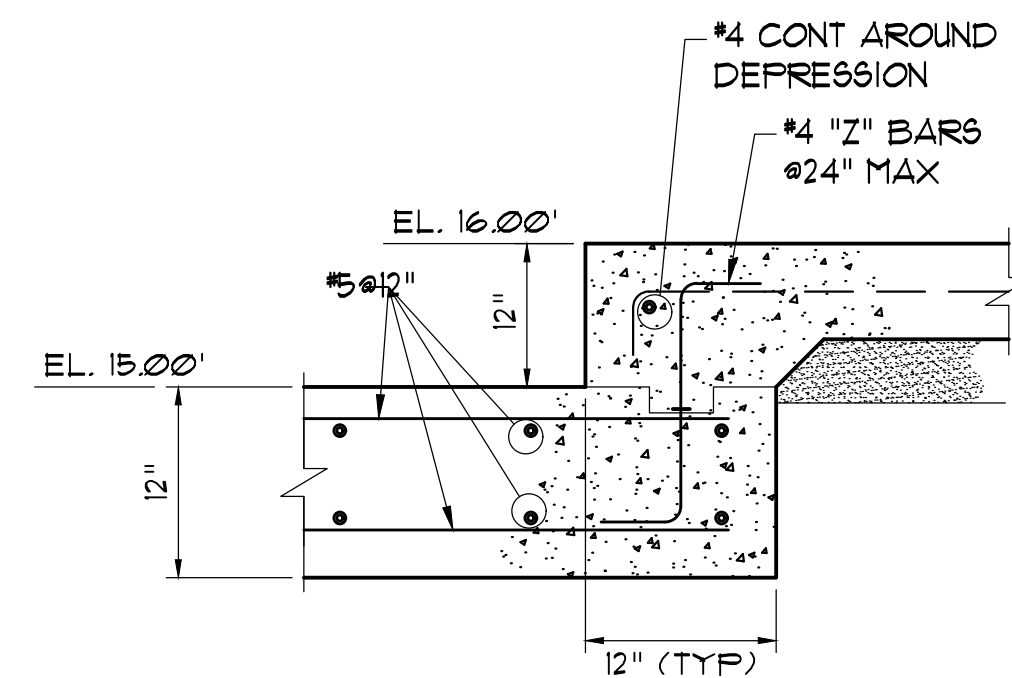


SLUDGE PRESS BUILDING FOUNDATION PLAN

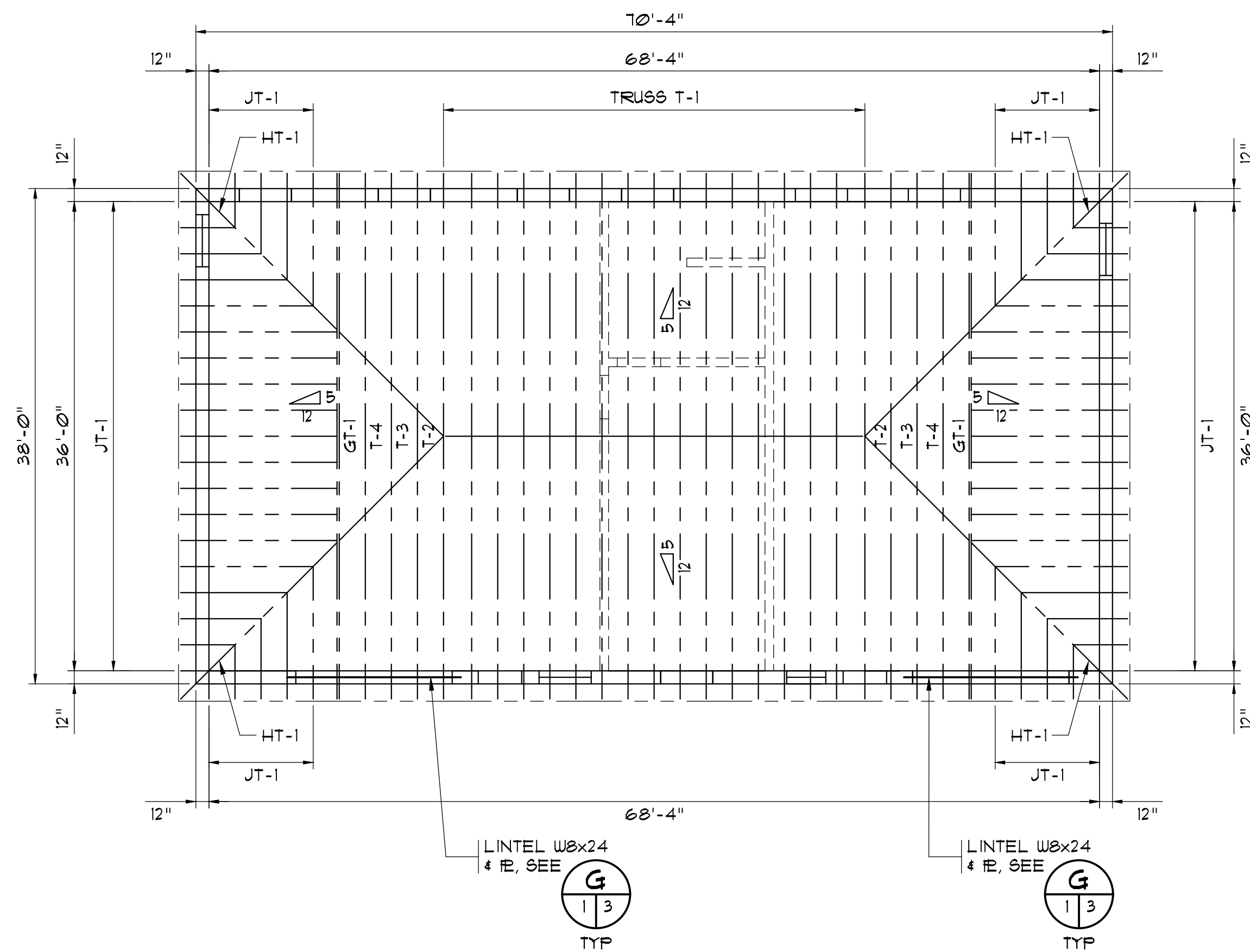
SCALE: 1/8" = 1'-0"

NOTE:

1. TOP OF WALL FTG ELEV = 14.00' UON THIS: XXXX
2. SEE ARCH DWGS FOR LOCATION OF MAS WALLS NOT DIMENSIONED.
3. ALL SLABS SHALL BE 6" THICKNESS, UON.
4. ALL SLABS SHALL BE PLACED OVER VAPOR BARRIER AND 4" COMPACTED COURSE SAND AND REINFORCED w/ 6x6-W12x12.3 WUF, UON.
5. FIN FLOOR ELEV = 16.00' UON.
6. STEP FTGS AS REQUIRED TO CLEAR NEW OR EXISTING UTILITIES. CONFIRM LOCATIONS WITH STRUCTURAL ENGINEER.
7. REINFORCED CELL LOCATIONS ARE BASED ON ASSUMED CMU CORE LOCATIONS AND WALL OPENINGS. REINFORCED CELL LOCATIONS MAY VARY SLIGHTLY TO ACCOMMODATE COURSING. COORDINATE WITH ARCH DWGS. PROVIDE REINFORCED CELLS AT EACH END OF WALL AND EACH SIDE OF EACH WALL OPENING.
8. FILL ALL MASONRY CELLS WITH MASONRY GROUT BELOW FIN FLOOR.
9. PROVIDE 12x12x12 CONCRETE PIERS FOR BELT PRESS SUPPORT AS REQUIRED. REINFORCE w/ 4-#5 DWL'S (ONE EA CORNER) AND 2-#3 TIES, TYPICAL EA PIER. CORE DRILL AND SET DWL'S IN EPOXY GROUT.



A BELT PRESS FOUNDATION SLAB
N.T.S.

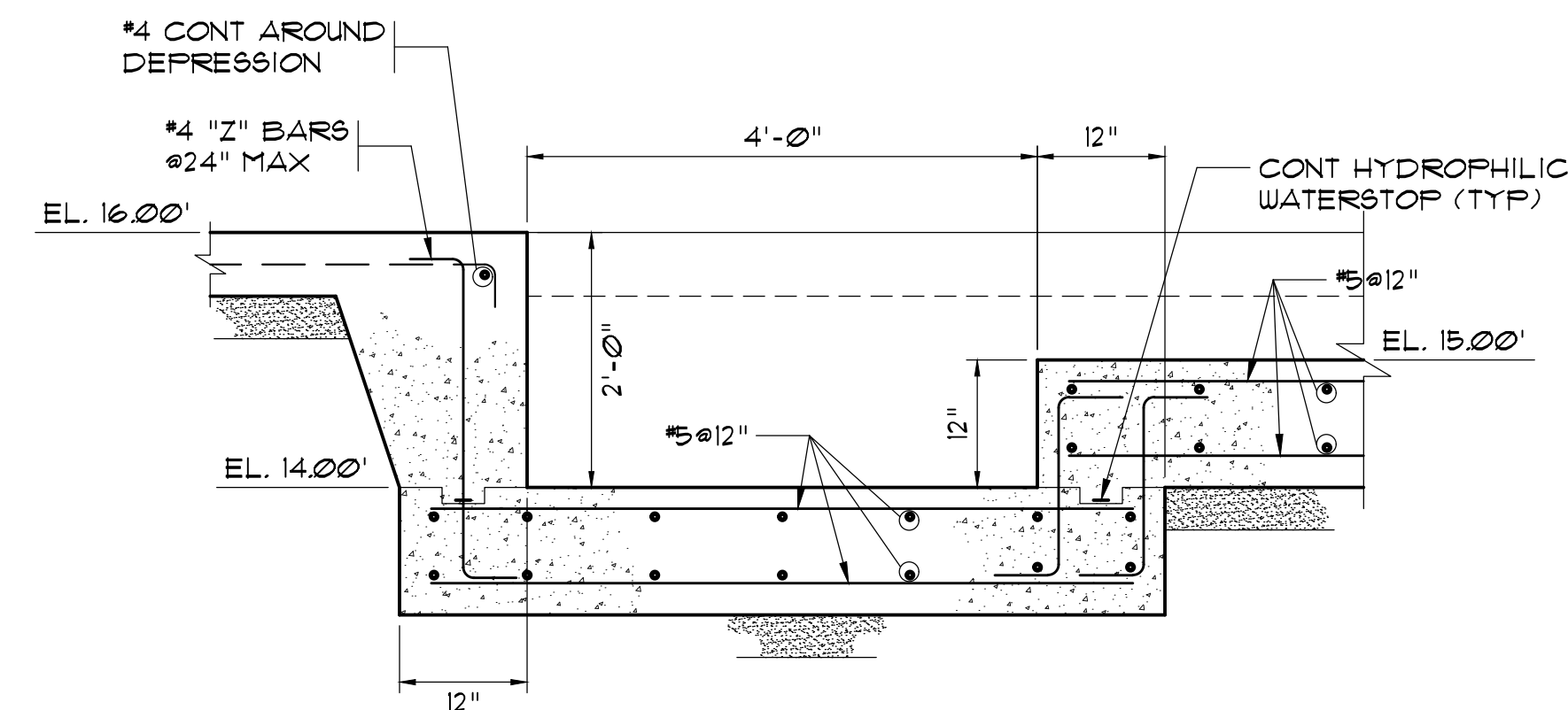


SLUDGE PRESS BUILDING ROOF FRAMING PLAN

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

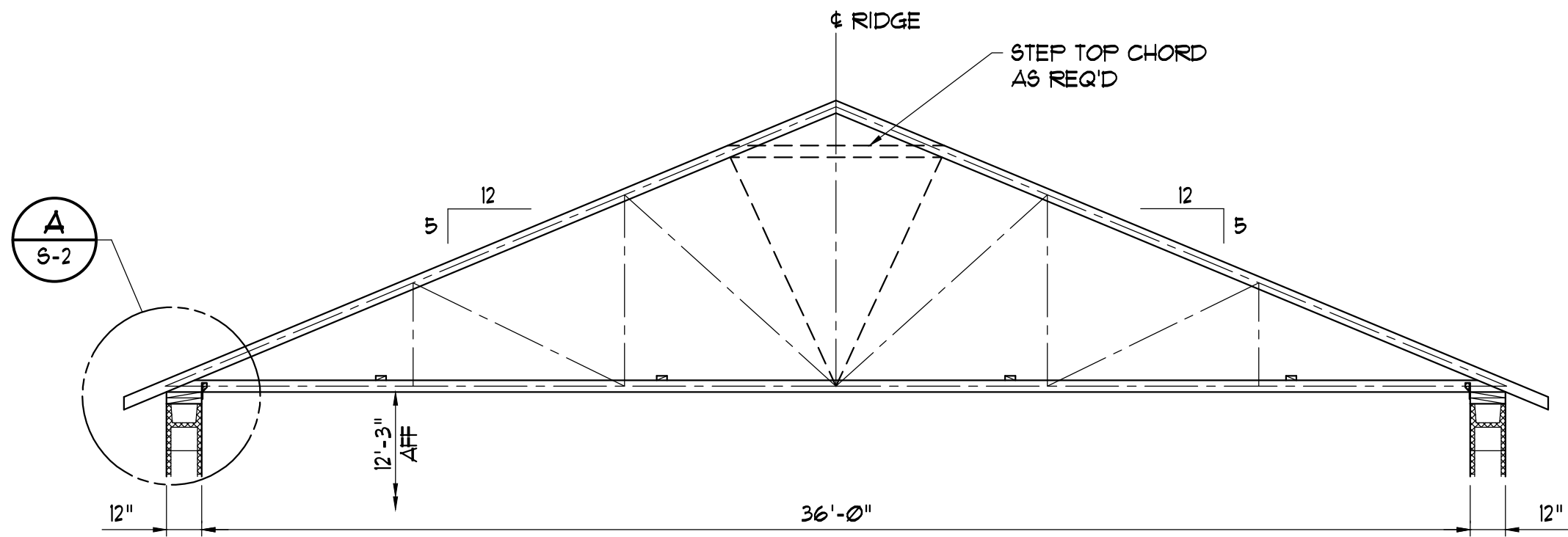
NOTE:

1. TRUSSES SPACED AT 2'-0" MAX. FRAMING PLAN IS SCHEMATIC AND MAY VARY SLIGHTLY AS REQUIRED BY TRUSS DESIGN.
2. FOR TRUSS ELEVATIONS AND TRUSS NOTES SEE SHEET S-2.

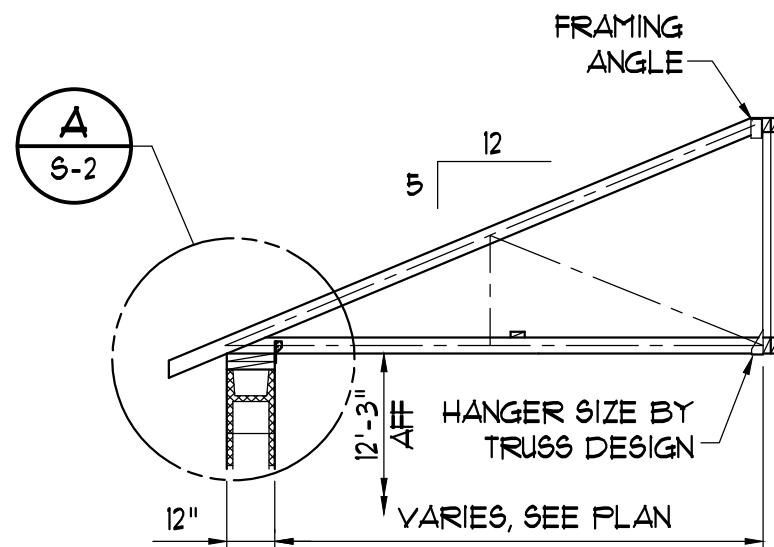


B BELT PRESS FOUNDATION SLAB
SCALE: 3/4" = 1'-0"

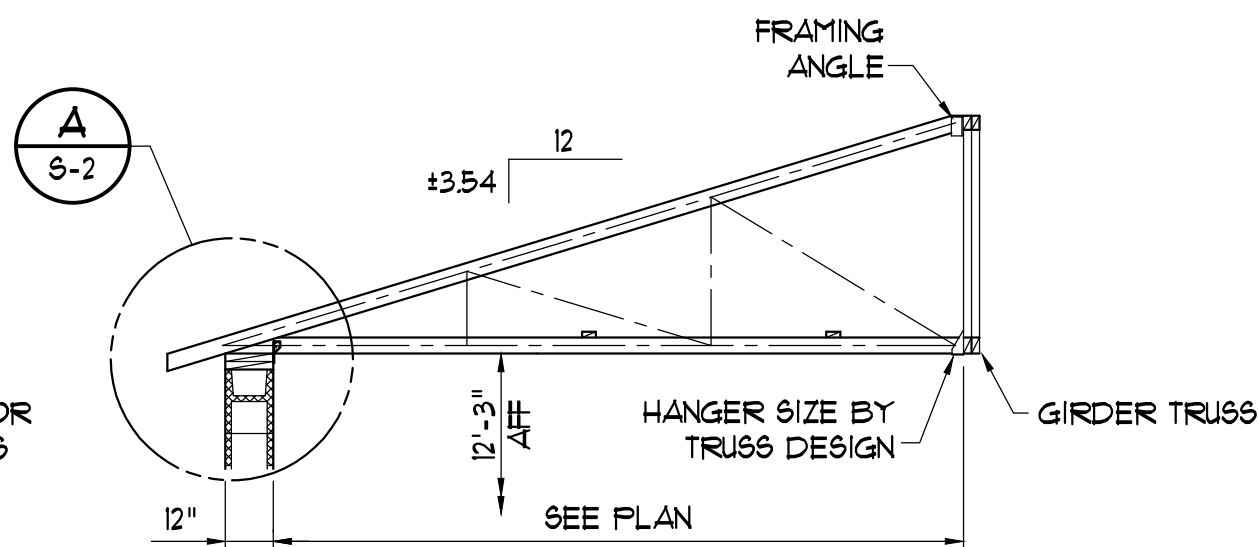
AS-BUILT



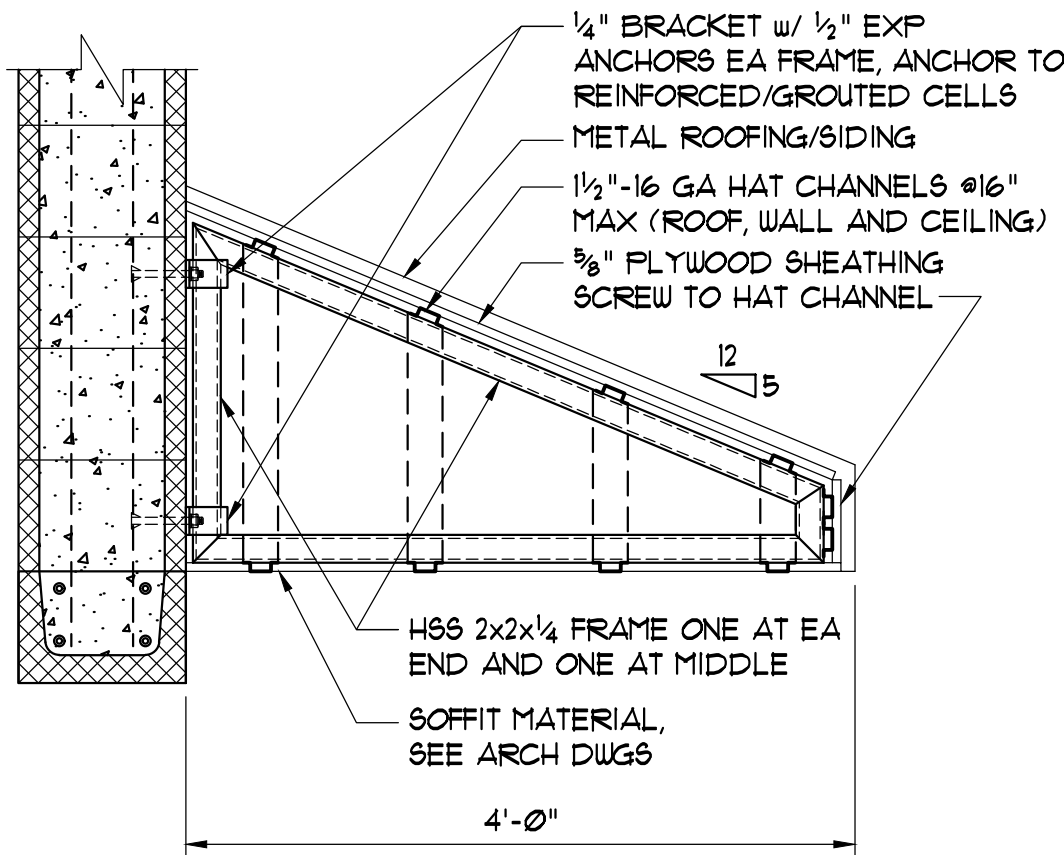
TRUSS T-1, T-2, T-3, T-4 AND GT-1



TRUSS JT-1



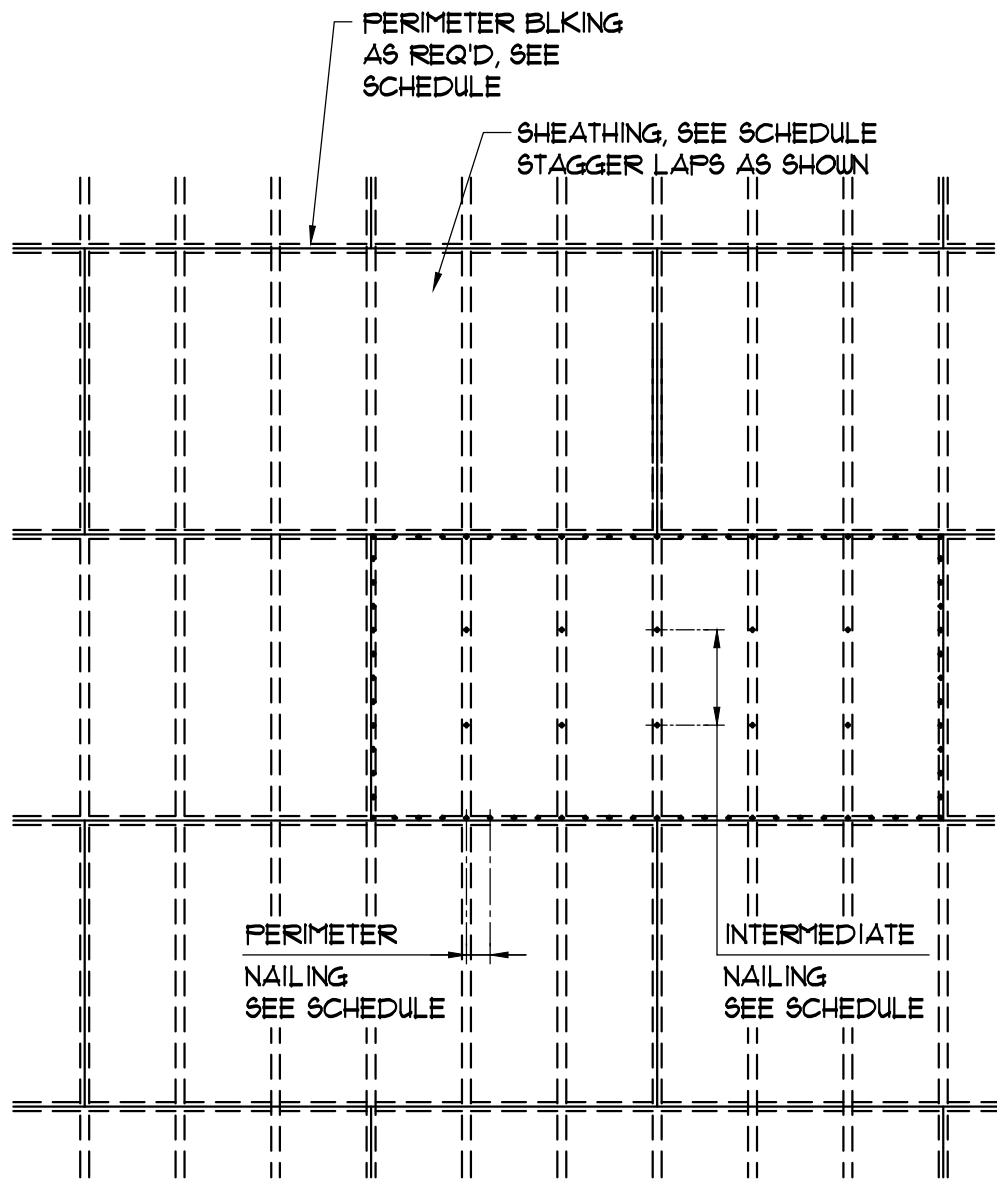
TRUSS HT-1



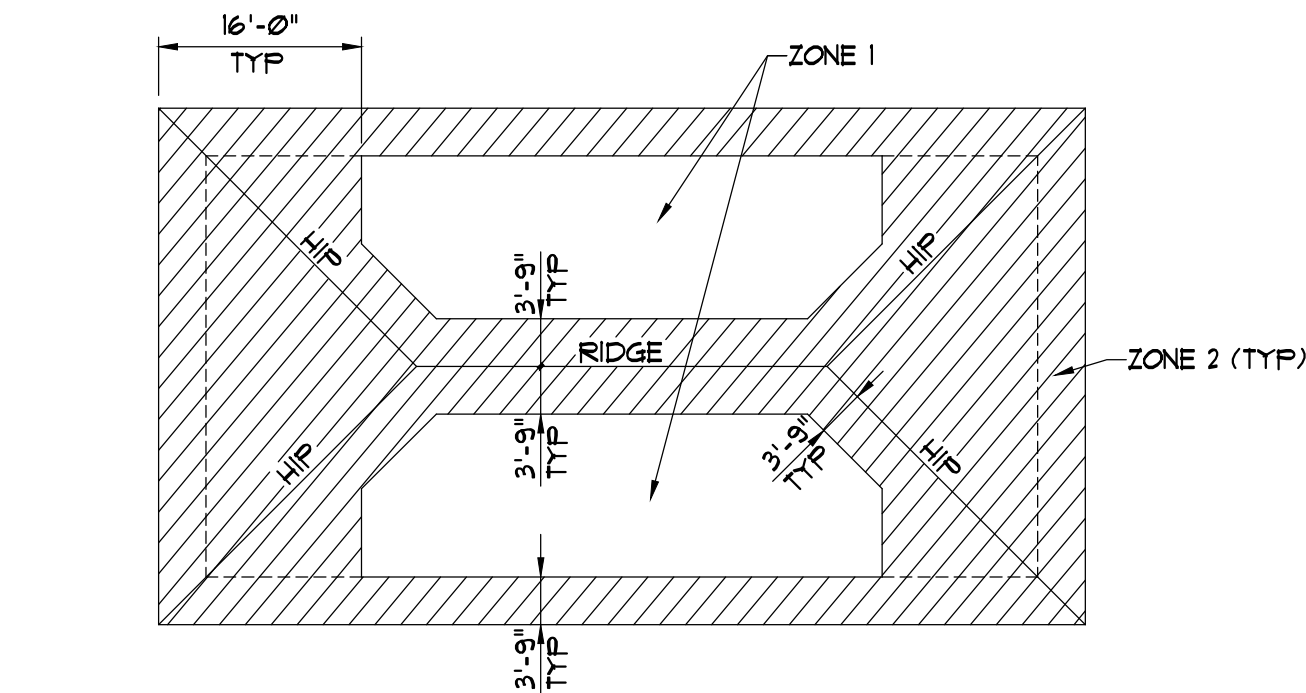
AWNING DETAIL

NO SCALE
NOTE:
1. AWNING FRAMES SHALL BE SHOP FABRICATED.
2. FIELD FILLET WELD HAT CHANNELS TO AWNING FRAMES.

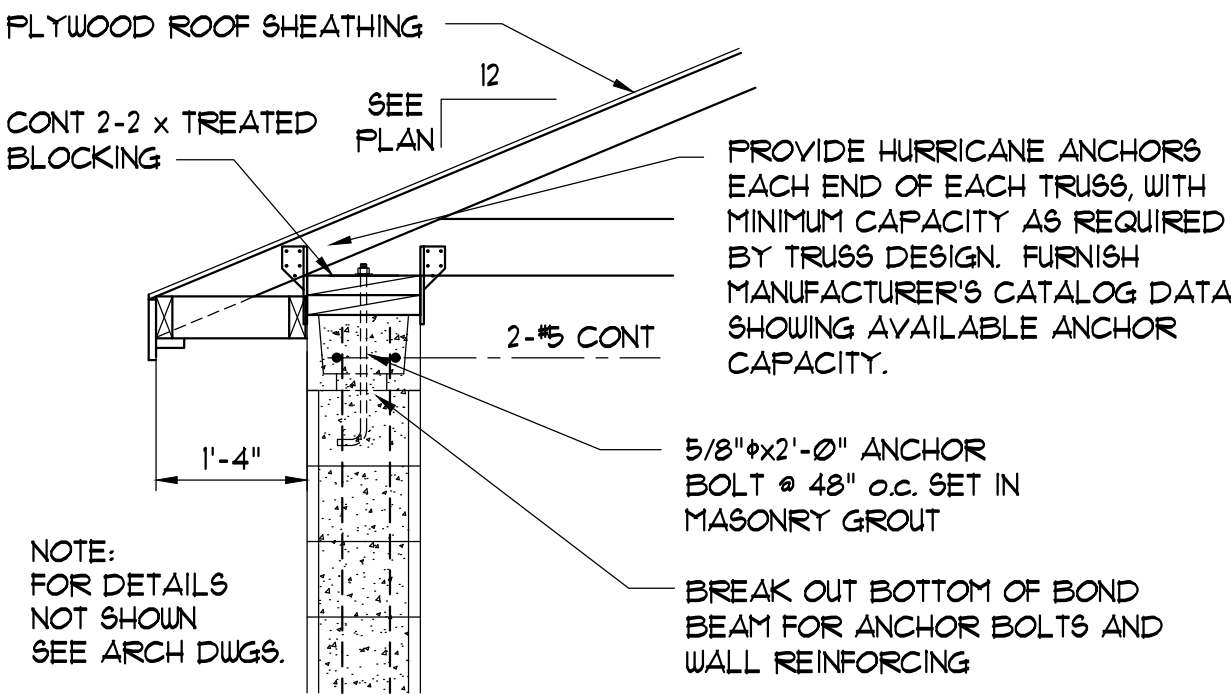
LOCATION	THICKNESS	NAILS	BLOCKING	NAIL SPACING	
				PERIMETER	INTERMEDIATE
CEILING	1/2" PLYWOOD	8d	NOT REQ'D	6"	12"
ROOF ZONE 1	5/8" PLYWOOD	10d	NOT REQ'D	6"	12"
ROOF ZONE 2	5/8" PLYWOOD	10d	YES	4"	6"



SHEATHING ATTACHMENT DETAIL



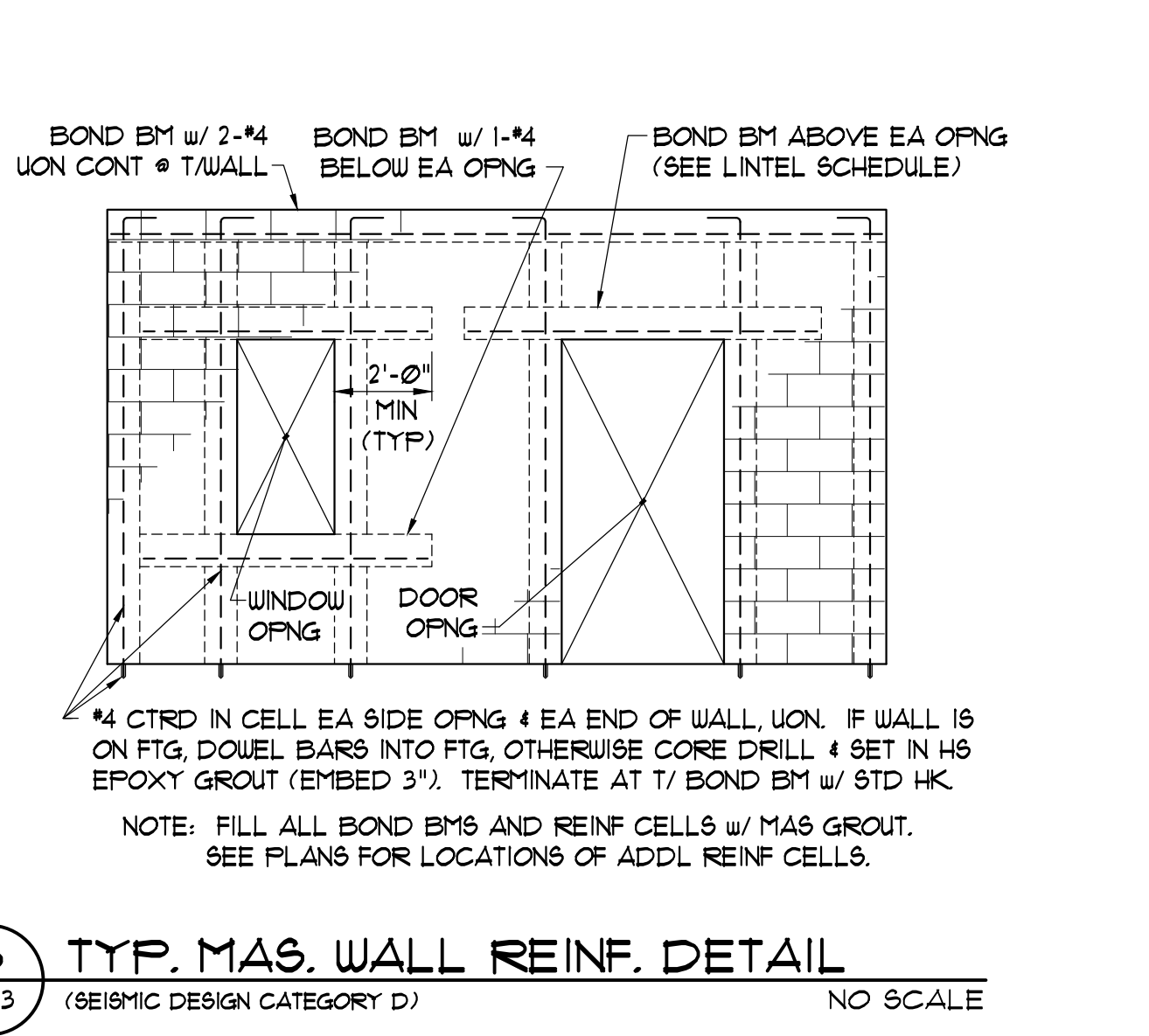
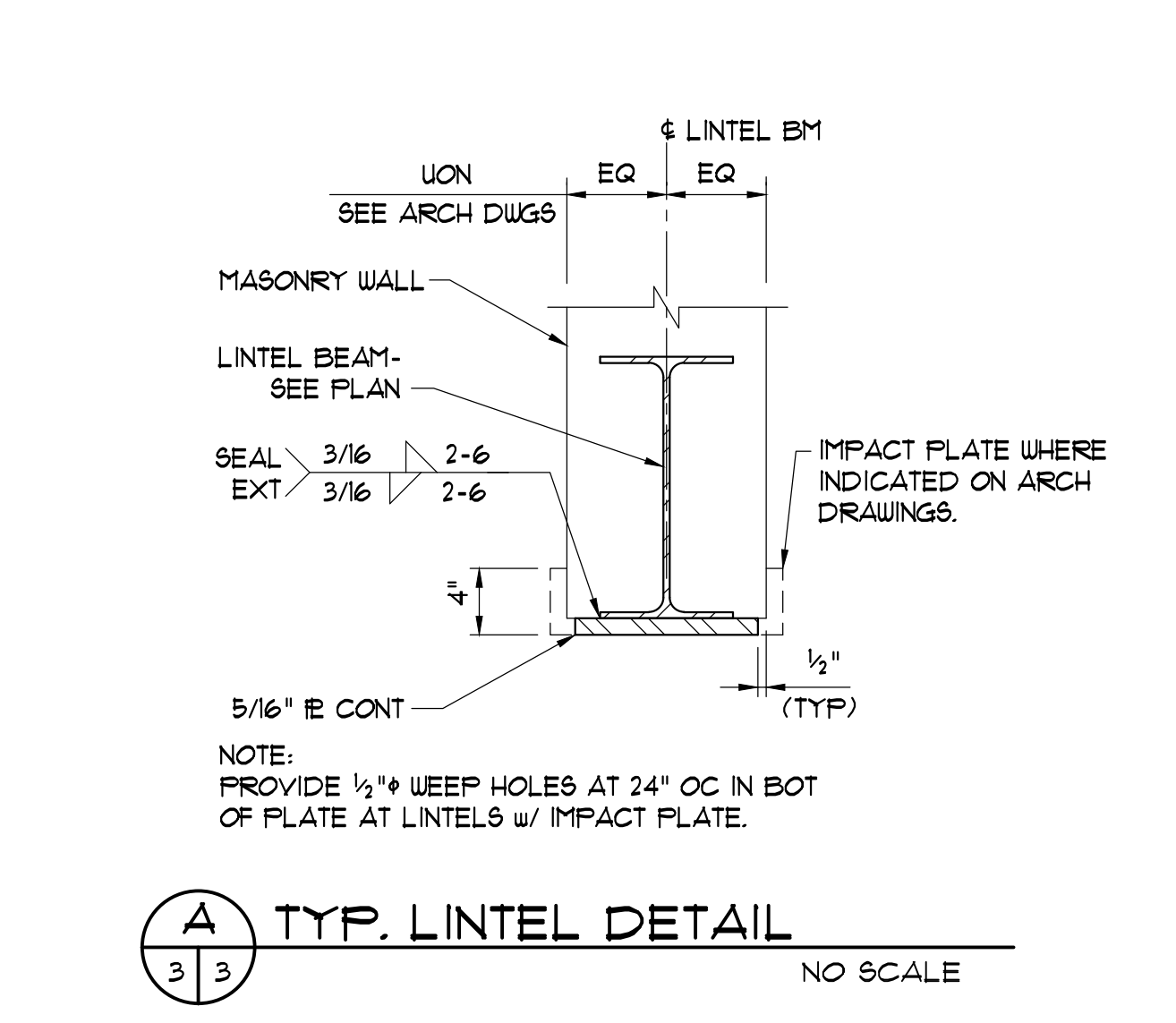
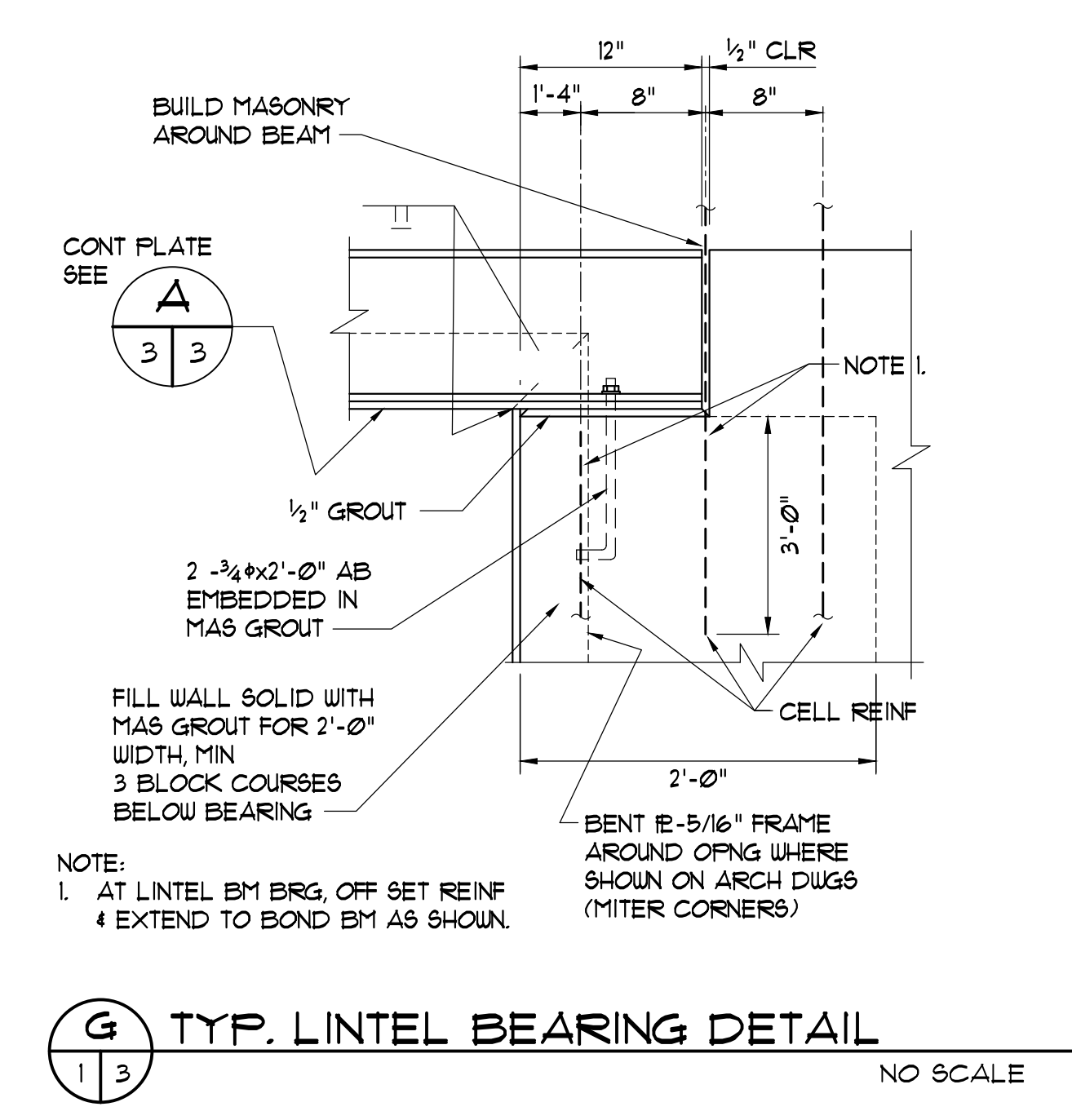
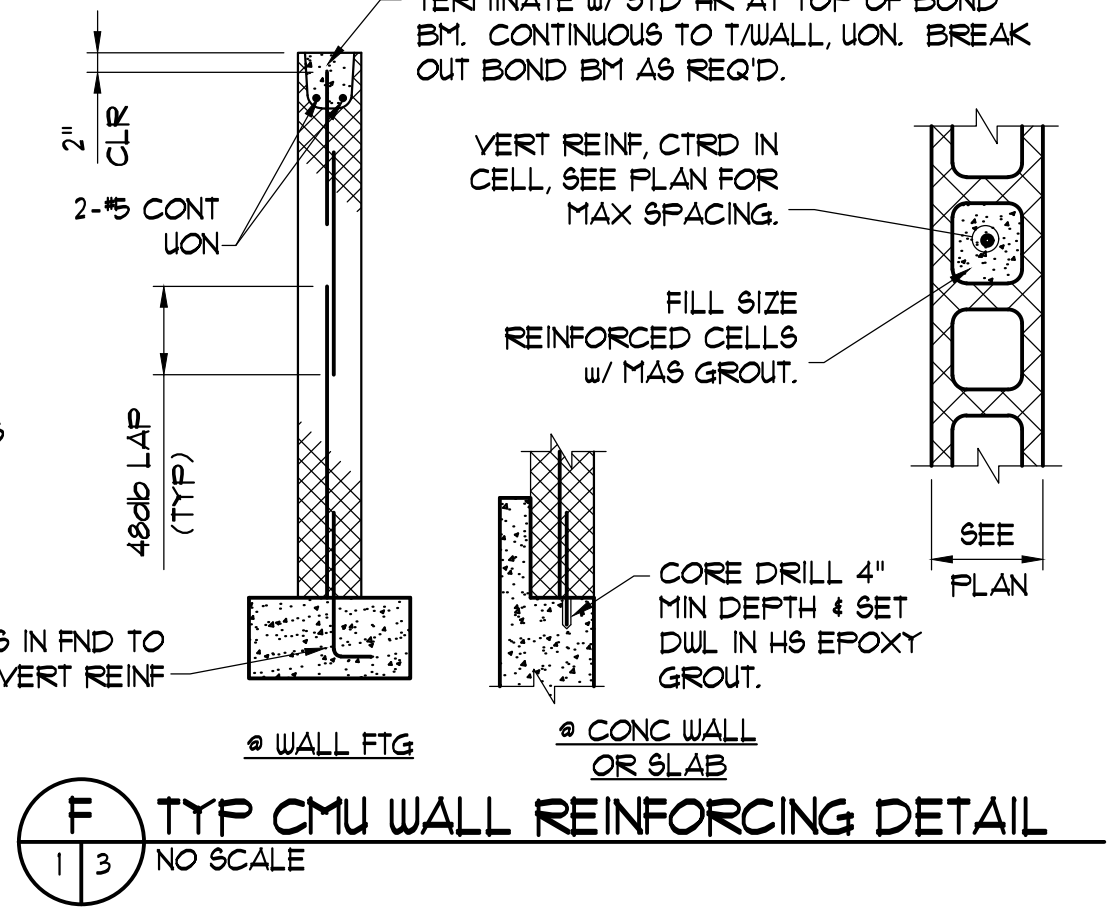
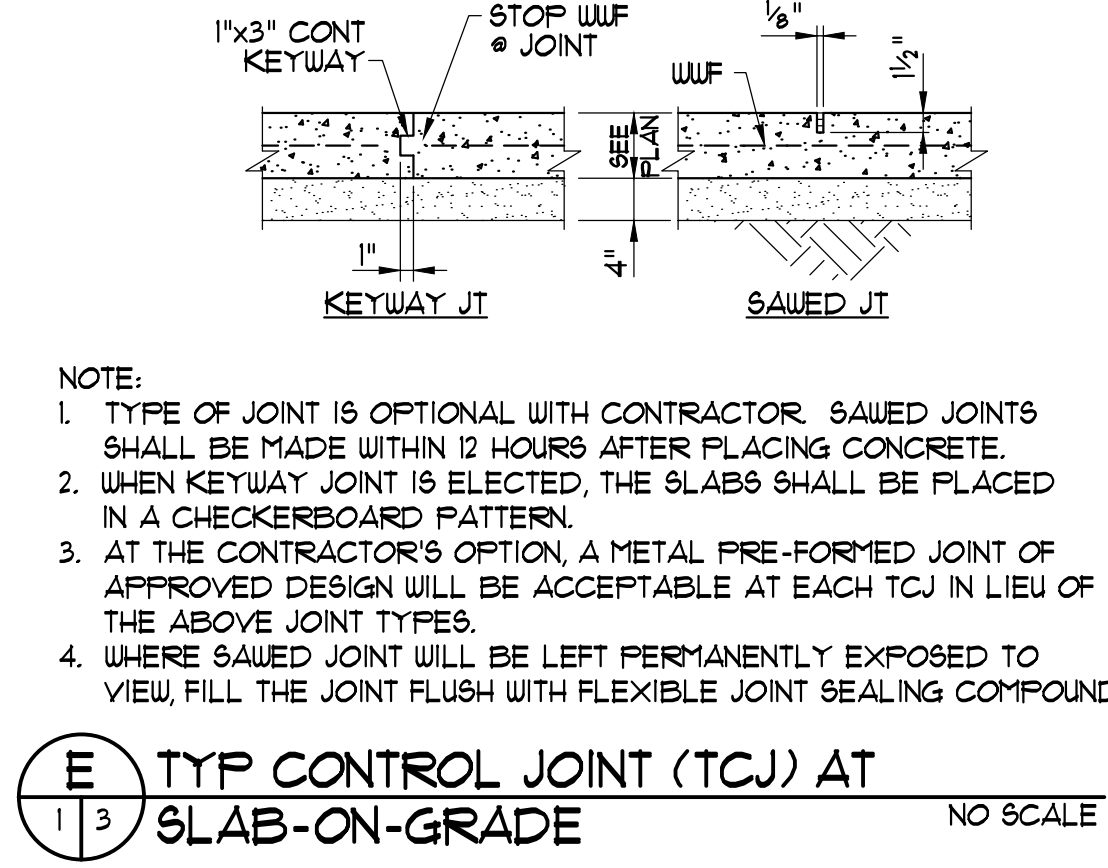
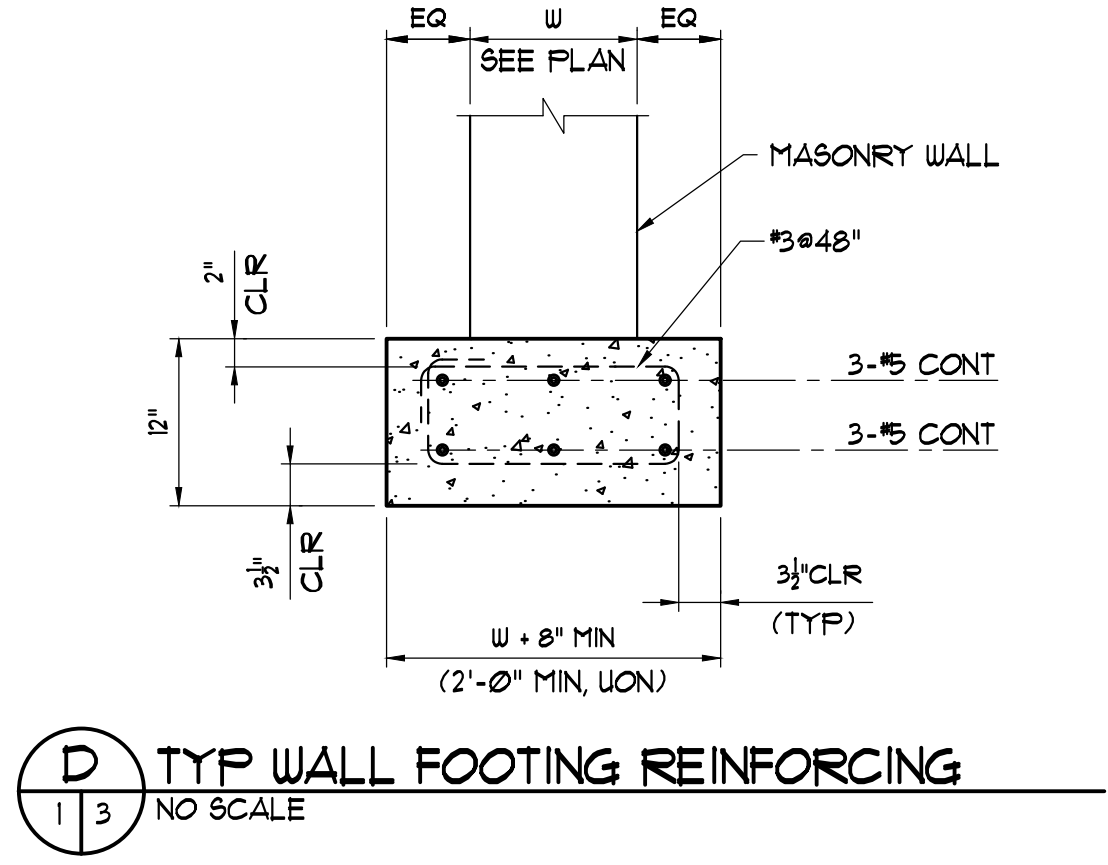
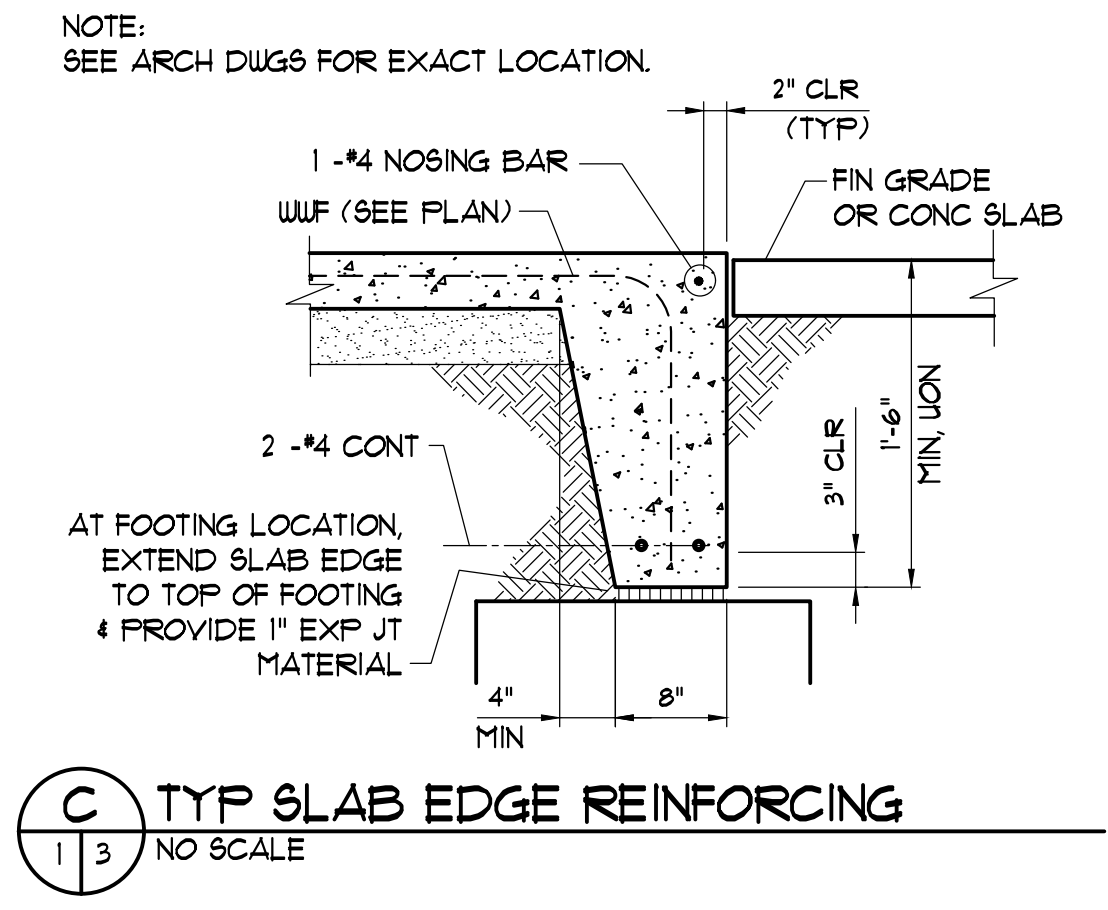
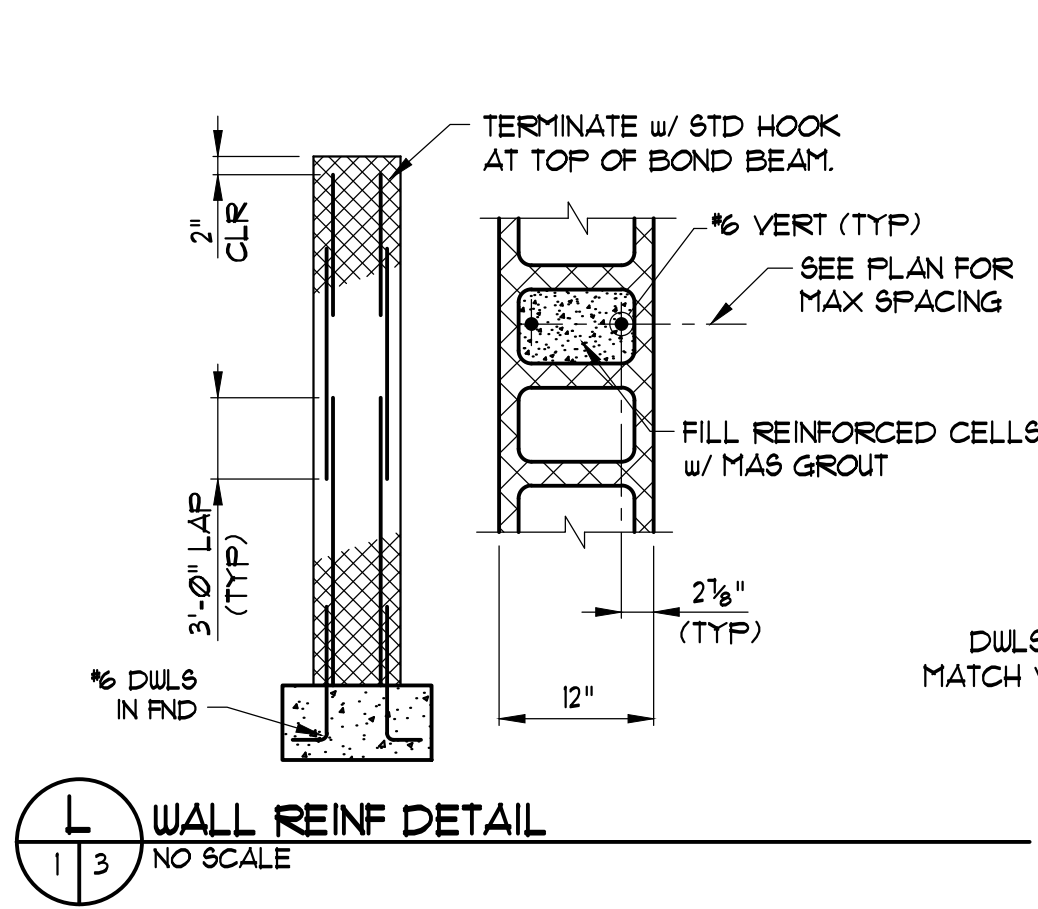
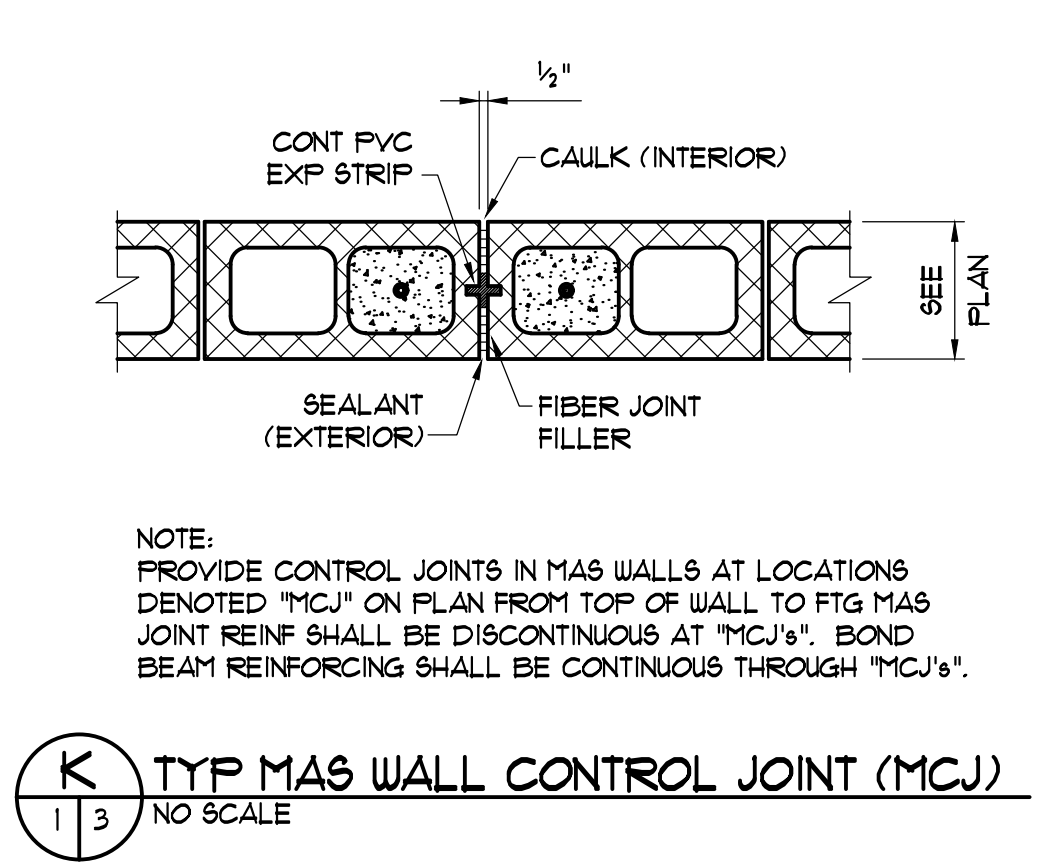
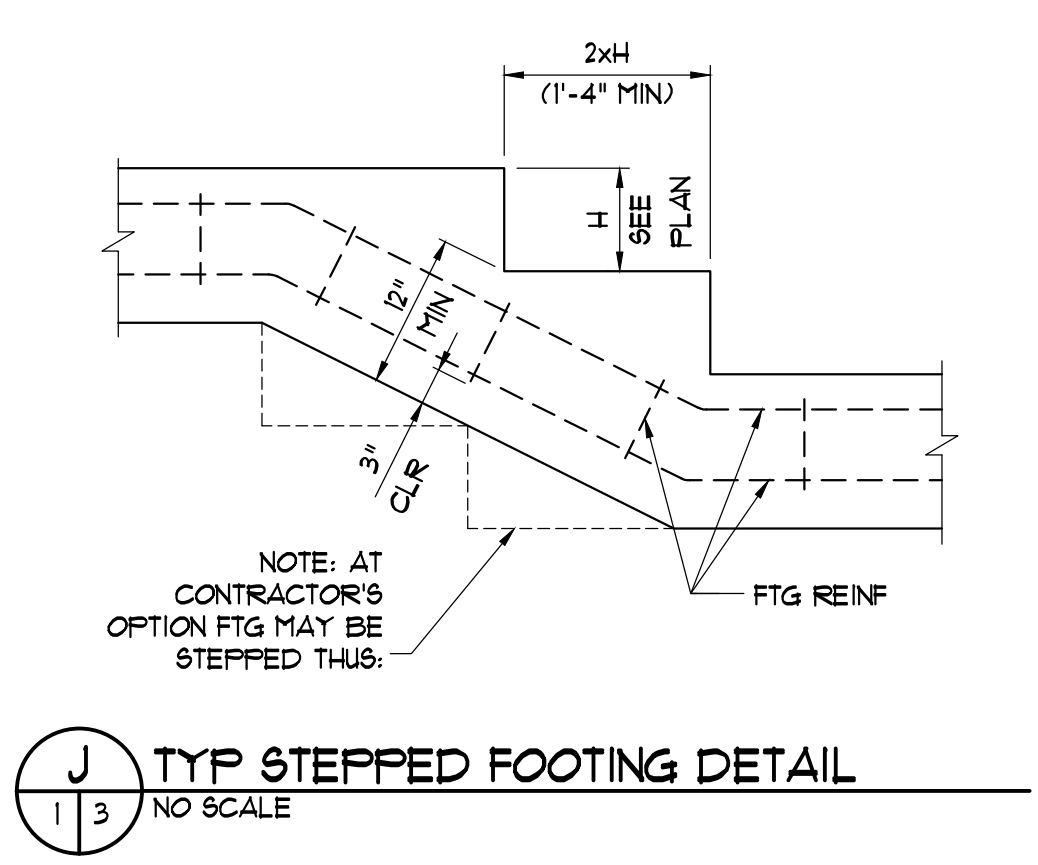
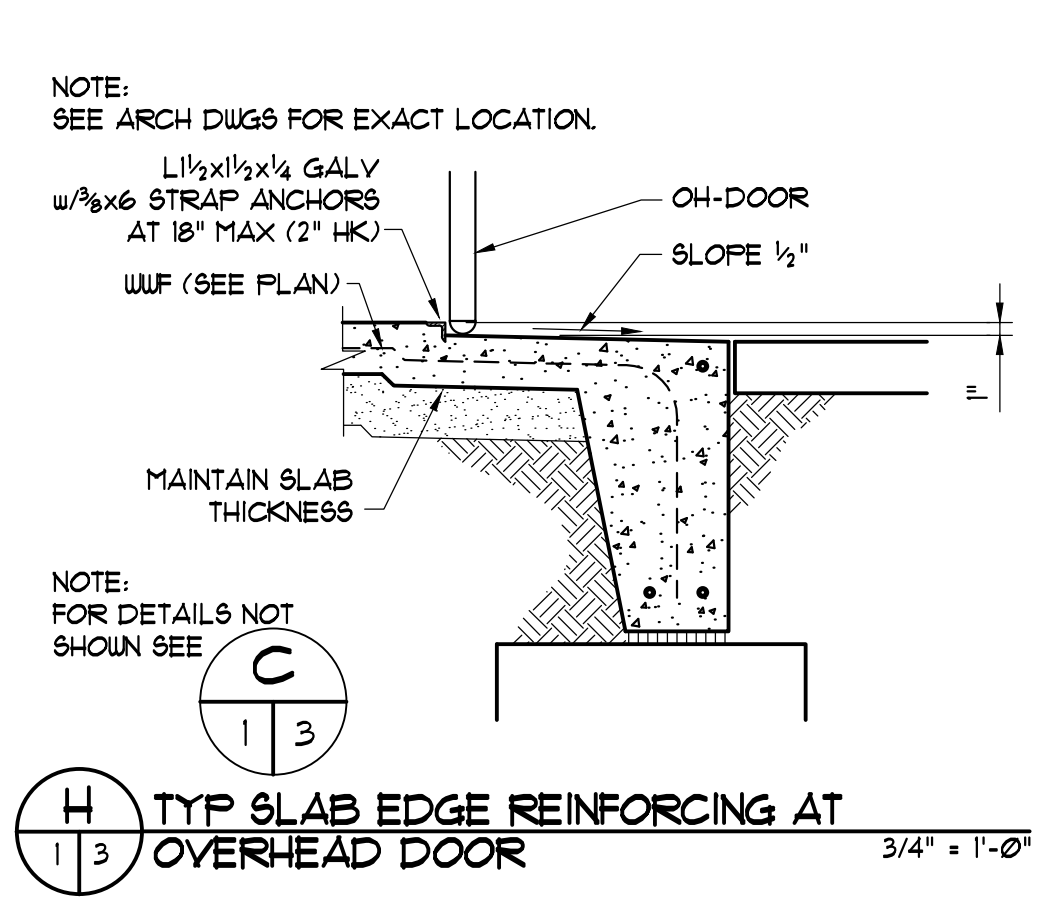
PLAN - ROOF ZONES



TYPICAL EAVE DETAIL AT MASONRY WALL

WOOD TRUSS NOTES

1. LUMBER IN TRUSSES SHALL BE GRADE MARKED AS FOLLOWS:
CHORD MEMBERS NO. 2 KD STD, OR BETTER
WEB MEMBERS NO. 3 KD STP, OR BETTER
2. MAXIMUM TRUSS SPACING = 2'-0" ON CENTER.
3. CENTROIDAL LINES OF MEMBERS SHALL INTERSECT AT A POINT, UO/L.
4. ENDS OF ALL COMPRESSION MEMBERS SHALL BE CUT TO FIT INTERSECTING MEMBERS FOR POSITIVE END BEARING.
5. TRUSS DESIGN LOADS:
WIND ASCE 7-05, 130 MPH, WIND IMPORTANCE FACTOR = 1.15, EXPOSURE C
GCPI = 10.55, DESIGN TRUSSES FOR COMPONENTS AND CLADDING LOADING
TOP CHORD DEAD LOAD 9 PSF (5 1/2 FOR UPLIFT)
BOTTOM CHORD DEAD LOAD 11 PSF (1 FOR UPLIFT)
TOP CHORD ROOF LIVE LOAD 16 PSF (4 1/2 TO LESS THAN 12/12 PITCH)
SEISMIC - PER CODE
TRUSSES SHALL BE DESIGNED BY A REGISTERED SOUTH CAROLINA PROFESSIONAL ENGINEER EMPLOYED BY THE TRUSS MANUFACTURER. SUBMIT SEALED CALCULATIONS FOR TRUSS MEMBER AND CONNECTION DESIGN WITH SHOP DRAWINGS.
6. TRUSS JOINT CONNECTIONS SHALL BE MADE BY USING GALVANIZED TOOTHED CONNECTION PLATES.
7. TRUSS DESIGN ENGINEER SHALL INDICATE PERMANENT AND TEMPORARY BRACING REQUIRED ON SHOP DRAWINGS.



LINTEL SCHEDULE			
OPENING	LINTEL		BEARING
0'-0" to 1'-4"	1 FL - 3/8" x 3 1/2"	*	8"
1'-4" to 4'-0"	1 FL - 3 1/2" x 3 1/2" x 5/16"	*	8"
4'-0" to 6'-8"	1 FL - 4" x 3 1/2" x 5/16"	*	8"
6'-8" to 8'-0"	1 FL - 5" x 3 1/2" x 5/16"	*	8"

* PER 4" OF WALL THICKNESS

NOTE:
ALL UNSCHEDULED OPENINGS INCLUDING OPENINGS FOR MECHANICAL WORK SHALL BE PROVIDED WITH LINTELS IN ACCORDANCE WITH THIS SCHEDULE.

OPENING	6" OR 8" WALL	12" WALL	BEARING
2'-0" to 4'-0"			8"
4'-0" to 5'-4"			8"
5'-4" to 8'-0"			16"

REQUIRED LINTELS NOT OTHERWISE INDICATED ON THE DRAWINGS SHALL BE AS SHOWN IN THE ABOVE SCHEDULE.

CONCRETE MASONRY LINTELS SHALL BE FILLED WITH MASONRY GROUT.

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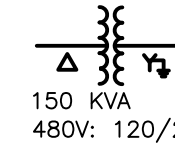
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CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER & SEWER AUTHORITY

Scale: AS SHOWN
Date: FEB. 2012
Drawn: DC
Checked: JWM
Job No.: 30004
Sheet No.:
S-3
Of: - Version: 3

DRAWING NAME: \\SERVER\Engineering\Marziano & McCaugan (ch'd to MBD 2-1-14)\Conway WWTP\Elec\As-Built\E-1 LEGEND.dwg - E-1 LEGEND Feb 07, 2019 - 1:23pm

ONE - LINES



TRANSFORMER WITH PRIMARY AND SECONDARY VOLTAGE, KVA RATING AND CONNECTION INDICATED.

P6: 3#6, #6G, 1" ONE-LINE SHOWING CIRCUIT NUMBER P6 WITH THREE #6 AWG PHASE CONDUCTORS AND A #6 EQUIPMENT GROUND IN A 1" CONDUIT TO A 25 HP LOAD.

CIRCLE DENOTES ALL OR PART OF CONDUIT IS UNDERGROUND

3P-50 LOW VOLTAGE AIR CIRCUIT BREAKER, 3 POLE, 50 AMPERE

THREE POLE DISCONNECT SWITCH WITH 30 AMP FUSES

SIZE 3 COMBINATION MAGNETIC MOTOR STARTER

PLANS

HEAVY LINES INDICATE NEW WORK

LIGHT LINES INDICATE EXISTING EQUIPMENT

CONDUIT EXPOSED

CONDUIT CONCEALED

CONDUIT TURNING UP, CONDUIT TURNING DOWN

TYPICAL HOMERUN TO BE ROUTED TO LIGHTING PANEL "LP" CIRCUIT NUMBER 2. SHORT DASH INDICATES PHASE CONDUCTOR, LONG DASH INDICATES NEUTRAL CONDUCTOR, CIRCULAR DASH INDICATES GROUND WIRE.

FLUORESCENT LIGHTING FIXTURE, SEE LIGHTING SCHEDULE

LIGHTING FIXTURE, SEE LIGHTING SCHEDULE

UNDERGROUND CONCRETE ENCASED DUCT BANK

UNDERGROUND DIRECT BURIED CONDUITS

GROUND CONDUCTOR

SINGLE POLE SWITCH

THREE WAY SWITCH

MOTOR RATED SWITCH

WEATHERPROOF SWITCH

2 DUPLX RECEPTACLE ON CIRCUIT LPA-2

GFI, WP

4 SIMPLEX RECEPTACLE ON CIRCUIT LPA-4

3-PHASE RECEPTACLE

TELEPHONE OUTLET

JUNCTION BOX

LIGHTING PANEL

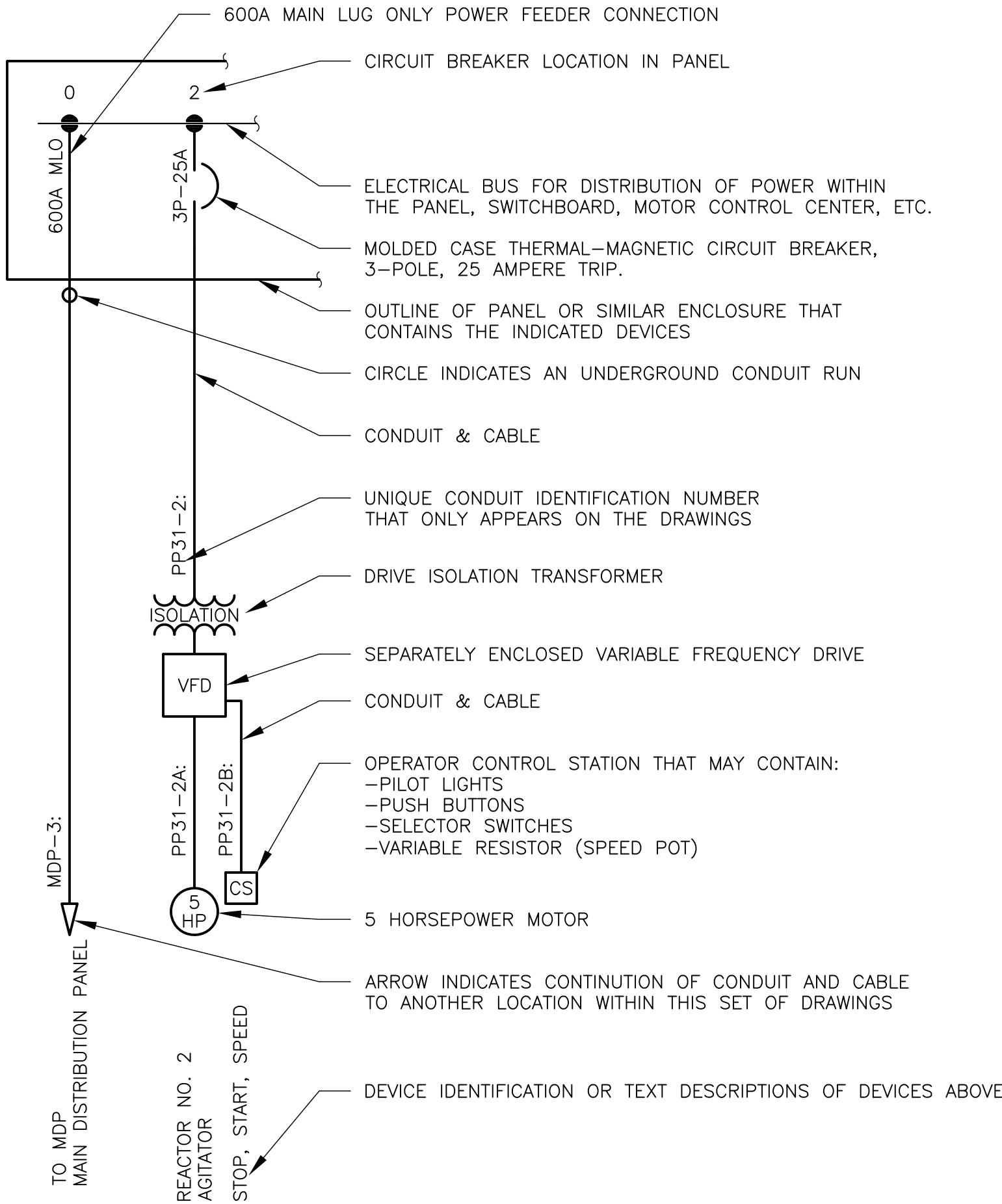
MISCELLANEOUS PANEL

COMBINATION MOTOR STARTER

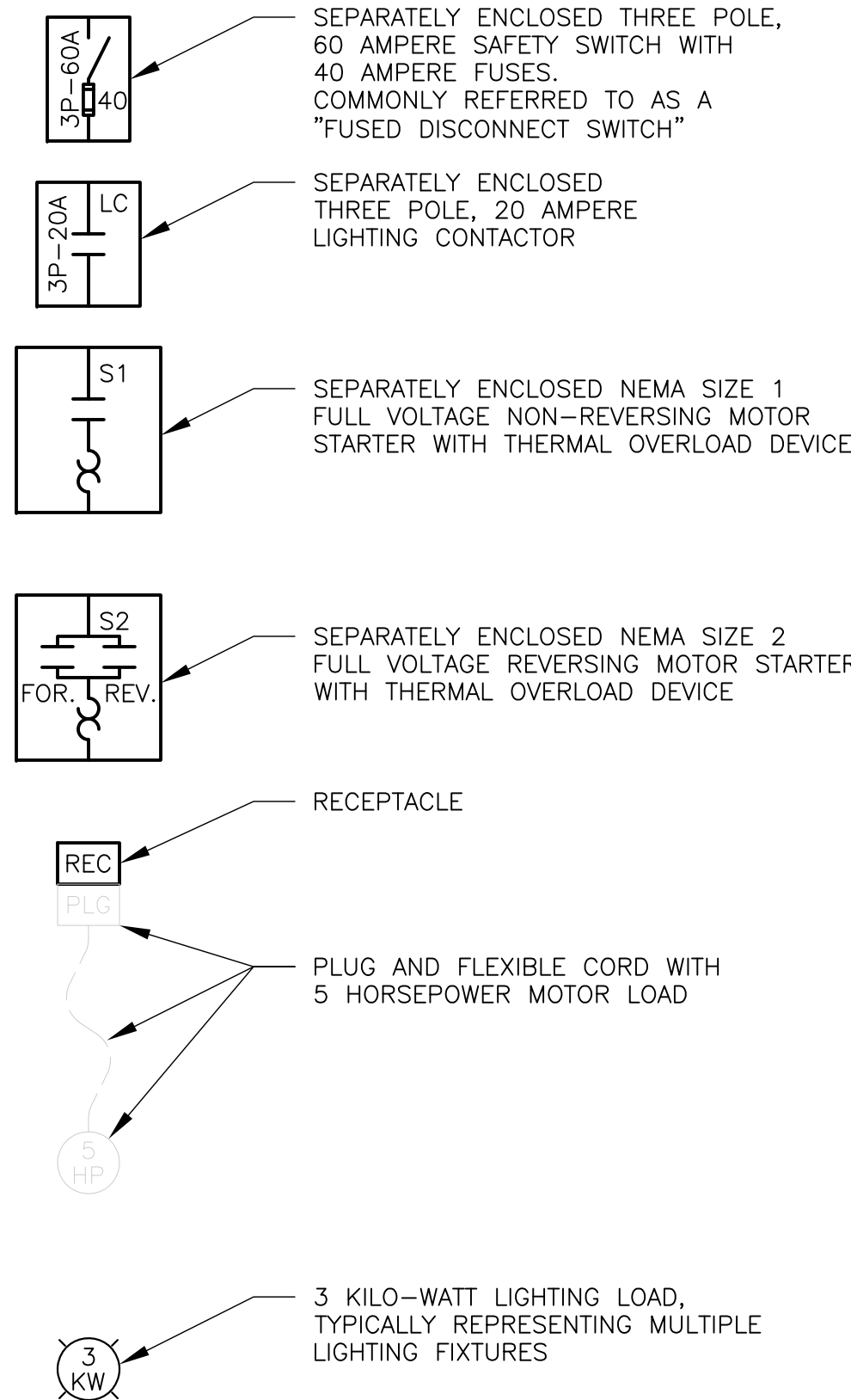
DISCONNECT SWITCH

GROUND ROD

ELECTRICAL LEGEND AND SYMBOLS



ELECTRICAL ONE-LINE DIAGRAM LEGEND



A	AMPERE	M	MAGNETIC MOTOR STARTER
AC	ALTERNATING CURRENT	M	MOTOR
A/C	AIR CONDITIONER	MA	MILLIAMPERE
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AGL	ABOVE GROUND LEVEL	MCB	MAIN CIRCUIT BREAKER
AMP	AMPERE	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MCP	MOTOR CIRCUIT PROTECTOR
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BPS	BOOSTER PUMP STATION	MIN	MINIMUM
C	CONDUIT	MLO	MAIN LUG ONLY
CB	CIRCUIT BREAKER	MPC	MINI-POWER CENTER
CFL	COMPACT FLOURESCENT	MTS	MANUAL TRANSFER SWITCH
CP	CONTROL PANEL	MSH	MOTOR SPACE HEATER
CR	CONTROL RELAY	N	NEUTRAL
CS	CONTROL STATION	NEC	NATIONAL ELECTRICAL CODE
CT	CURRENT TRANSFORMER	NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
DC	DIRECT CURRENT	OL	OVERLOAD (RELAY)
DIA	DIAMETER	PB	PUSH BUTTON
DM	DAMPER MOTOR	PCP	PUMP CONTROL PANEL
DS	DISCONNECT SWITCH	PE	PHOTO-ELECTRIC CONTROL
EB	ELECTRONIC BALLAST	PH	PHASE
EC	EMPTY CONDUIT	PL	PILOT LIGHT
E.C.	ELECTRICAL CONTRACTOR	PLC	PROGRAMMABLE LOGIC CONTROLLER
EF	EXHAUST FAN	PMR	POWER MONITOR RELAY
EL	ELEVATION	PP	POWER PANEL
EHH	ELECTRICAL HAND HOLE	PROP.	PROPOSED
EW	ELECTRIC WATER HEATER	PSCP	PUMP STATION CONTROL PANEL
EX.	EXISTING	R	RED
EXP	EXPLOSION PROOF	REQD	REQUIRED
G	GROUND	RTU	REMOTE TELEMETRY UNIT
GEN	GENERATOR	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SA	SURGE ARRESTOR
GFI	GROUND FAULT INTERRUPTER	SE	SERVICE ENTRANCE
GND	GROUND	SP	SUB-PANEL
HID	HIGH INTENSITY DISCHARGE (LIGHT)	SS	STAINLESS STEEL OR SELECTOR SWITCH
HQA	HAND-OFF-AUTOMATIC	SSRV	SOLID STATE REDUCED VOLTAGE
HP	HORSEPOWER	SST	STAINLESS STEEL
HVAC	HEATING, VENTILATION, & AIR COND.	SSW	SELECTOR SWITCH
HZ	HERTZ	T	THERMOSTAT
JB	JUNCTION BOX	TS	TEMPERATURE SWITCH
KVA	KILOVOLT-AMPERE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
KW	KILOWATT	TYP	TYPICAL
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION	UH	UNIT HEATER
LE	LEVEL ELEMENT	UM	UTILITY METER
LP	LIGHTING PANEL	V	VOLTS
LS	LEVEL SWITCH	VAC	VOLTS ALTERNATING CURRENT
LSH	LEVEL SWITCH - HIGH	VFD	VARIABLE FREQUENCY DRIVE
LSL	LEVEL SWITCH - LOW	W	WATTS OR WHITE
		WP	WEATHERPROOF
		XP	EXPLOSION PROOF
		ZS	POSITION SWITCH
		3-PH	THREE PHASE
		4P	FOUR POLE
		AND	AND

2(3#350), #1N, 4" TWO PARALLEL SETS OF 3-PHASE 350MCM CONDUCTORS, ONE #1AWG NEUTRAL CONDUCTOR, NO GROUNDING CONDUCTOR, IN ONE 4" CONDUIT.

3(1PR#18STP) THREE - SINGLE PAIR, #18 AWG SHIELDED TWISTED PAIR CABLES

2(1TR#18STT) TWO - SINGLE TRIADS, #18 AWG SHIELDED TWISTED TRIAD CABLES

3#16STP THREE - #16 AWG SHIELDED TWISTED PAIR CABLES

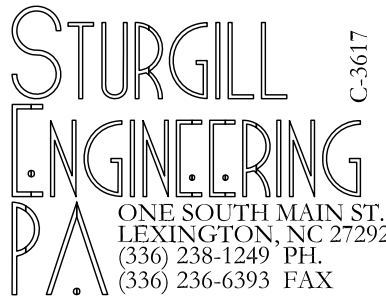
3-7/C#14 THREE - SEVEN CONDUCTOR #14 AWG MULTICONDUCTOR CONTROL CABLES

2-RS485 TWO CABLES FOR RS485 COMMUNICATION

ELECTRICAL ABBREVIATIONS

- GENERAL NOTES:
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, PERMITS, AND OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK INDICATED ON THE DRAWINGS.
 - ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED OR LABELED.
 - ALL DISCONNECT SWITCHES, JUNCTION BOXES, MOTOR CONTROLLERS, AND OTHER EQUIPMENT REQUIRING ELECTRICAL POWER CONNECTION SHALL BE MARKED WITH VOLTAGE PRESENT, AS APPROPRIATE TO DESIGNATE 120, 208, 240, 277, 480 VOLTS AND SINGLE OR THREE PHASE, AS APPLICABLE.
 - WIRE SHALL BE STRANDED COPPER WITH TYPE THHN/THWN-2 600V INSULATION. CONDUCTORS SHALL BE COLOR CODED BLACK, RED, BLUE, WHITE, AND GREEN ON 120/208 VOLT SYSTEMS AND BROWN, ORANGE, YELLOW, GRAY, AND GREEN ON 480Y/277 VOLT SYSTEMS. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN EACH CONDUIT.
 - CONTRACTOR SHALL COORDINATE ROUTING OF CONDUITS WITH THE OWNER AND OTHER TRADES.
 - CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION POINTS PRIOR TO INSTALLATION.
 - SLUDGE MIXING BASIN IS RATED CLASS 1, DIVISION 2, GROUP D BY NFPA 820. ALL CONDUITS IN OR THROUGH THIS AREA SHALL BE PVC COATED RIGID STEEL. ALL CONDUITS SHALL HAVE SUITABLE SEALOFFS.
 - THREE SINGLE PHASE CIRCUITS MAY BE COMBINED IN A SINGLE CONDUIT AS THREE PHASE CONDUCTORS, THREE NEUTRAL CONDUCTORS, AND ONE GROUND CONDUCTOR. CONTRACTOR IS RESPONSIBLE FOR UPSIZING CONDUCTORS TO MEET CODE REQUIREMENTS.

AS-BUILT



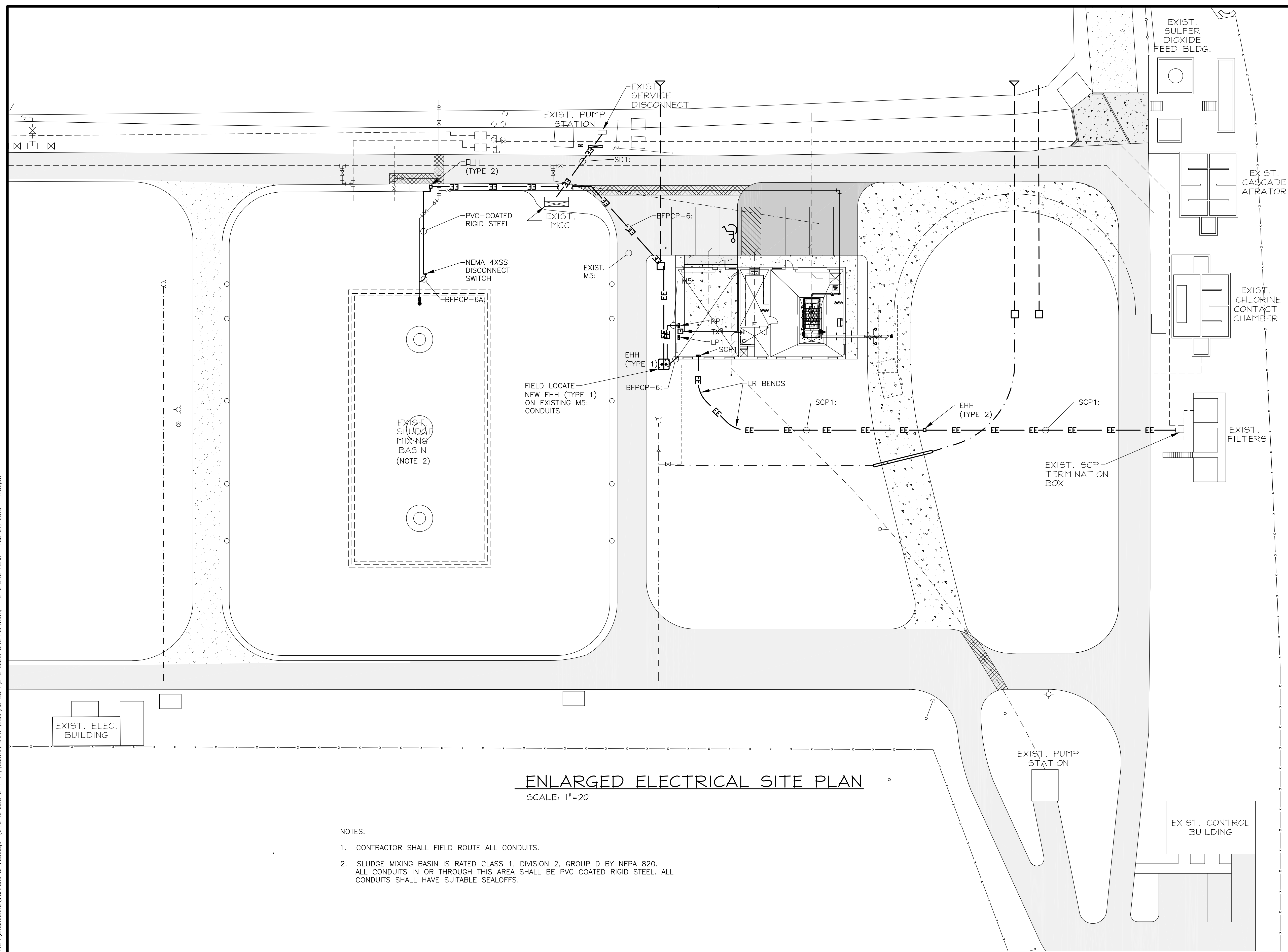
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ELECTRICAL
LEGEND

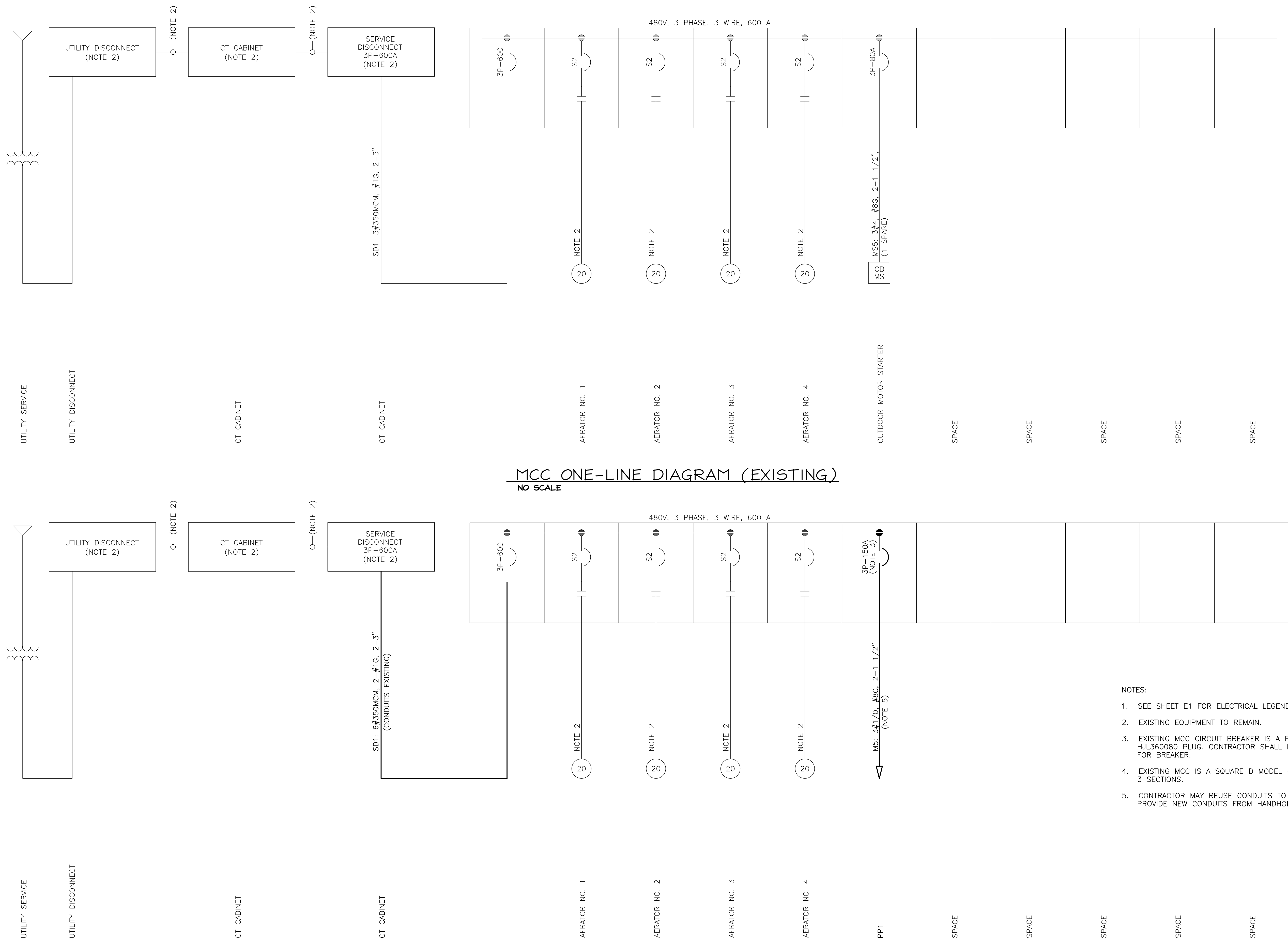
CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
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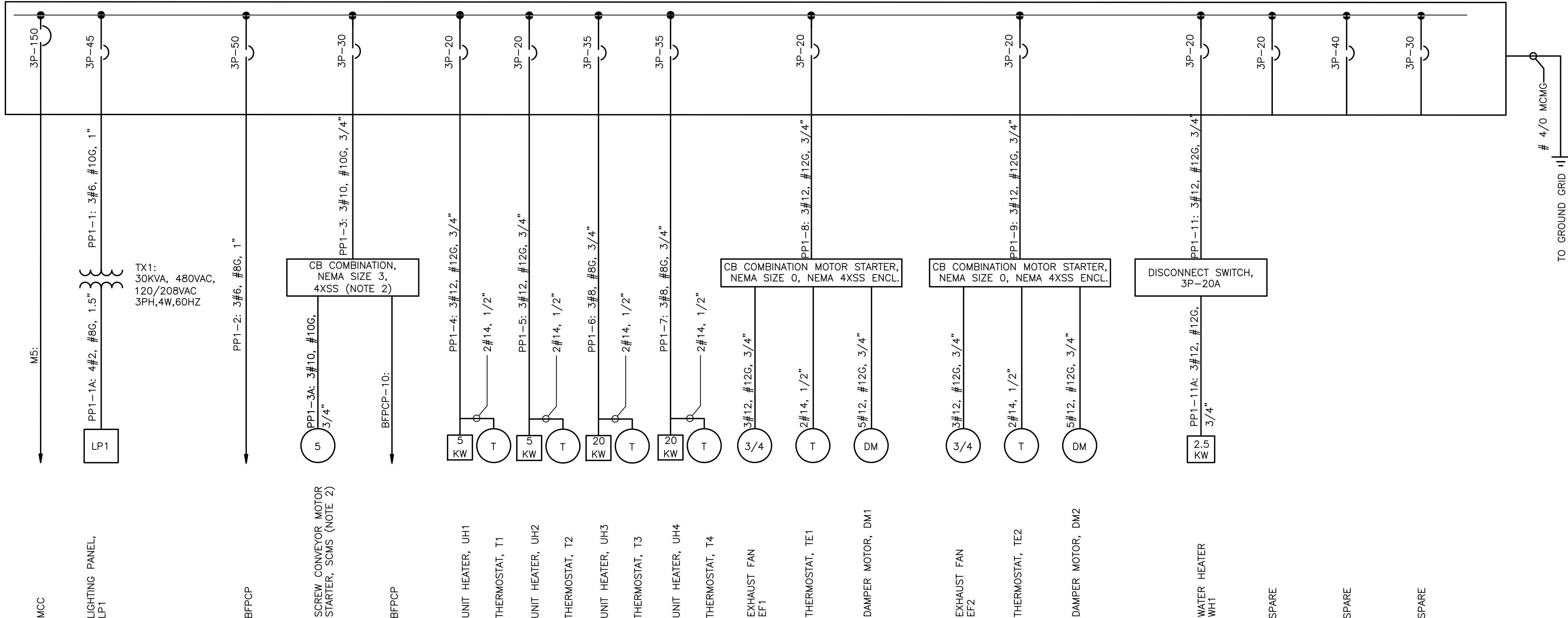


AS-BUILT

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AS-BUILT



PANELBOARD PPI ONE-LINE DIAGRAM

NO SCALE (LOCATED IN SLUDGE BUILDING, MAINTENANCE ROOM)

NOTES

1. SEE SHEET E1 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
2. SCREW CONVEYOR MOTOR STARTER IS EXISTING AND SHALL BE RELOCATED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE NEW MOTOR OVERLOADS AS REQUIRED.

FUSED DISCONNECT SWITCH
2P-30A FUSED AT 30A,
NEMA 4XSS ENCL.

IP1-16.18.20: 2#10. #10G. 3/4"

CU-1: 3#10, #10G, 3/4"

HEAT PUMP, HP-1

PP1 ONE-LINE

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Sheet No.:

F-4

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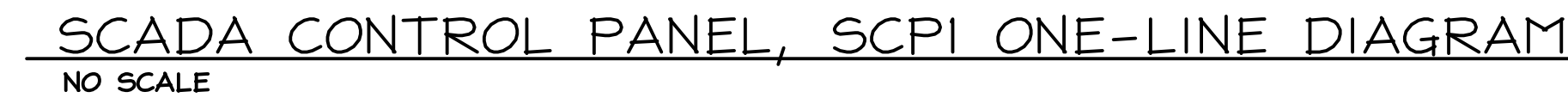
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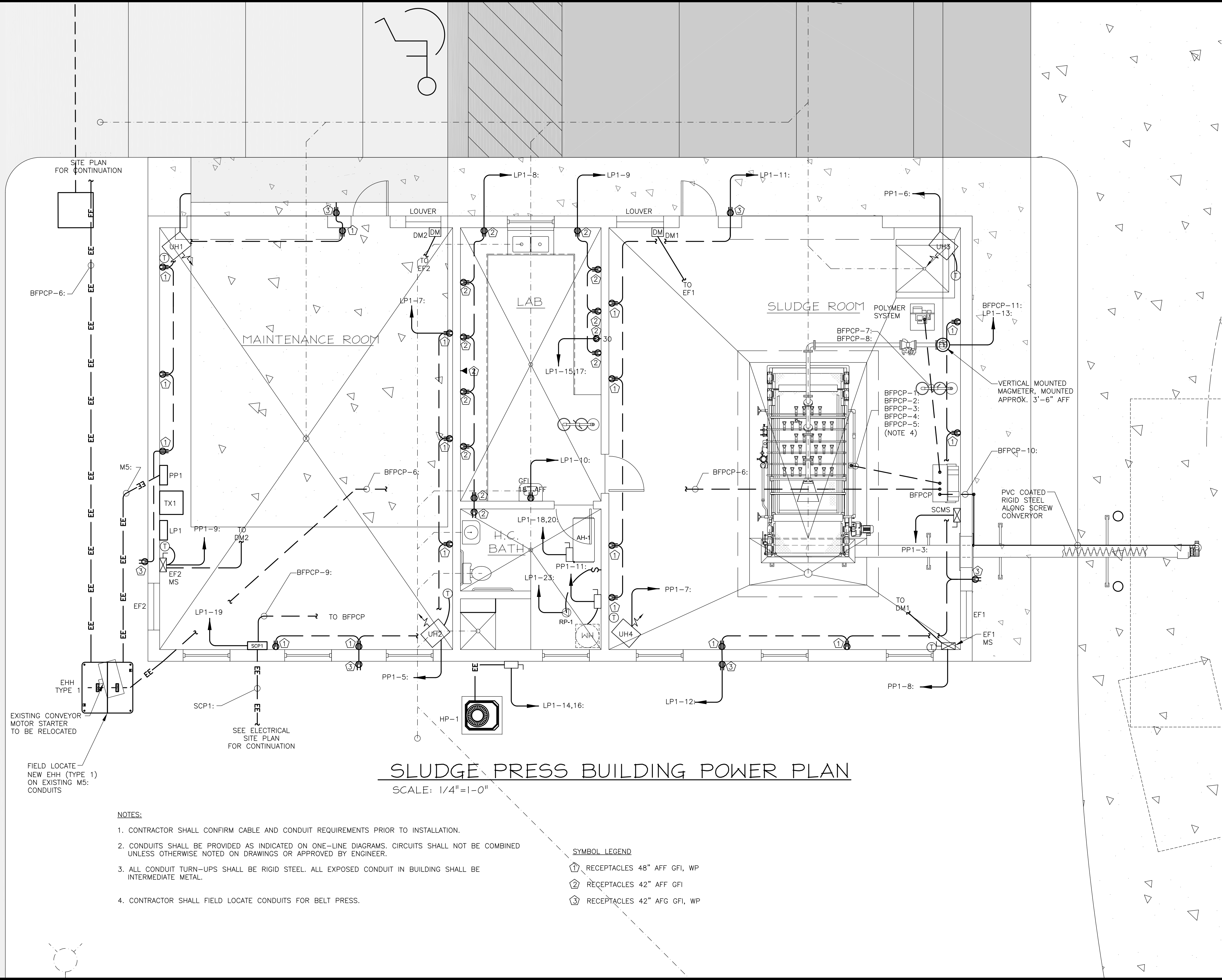
AS-BUILT

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- ## AS-BUILT

DRAWING NAME: \\SERVER\Engineering\Marziano & McCaugan (ch'd to MBD 2-1-14)\Conway WWTP\Elec\As-Built\E-6 SPB POWER PLAN.dwg - E-6 SPB POWER PLAN REVISED Feb 07, 2019 - 2:48pm



NOTES:

1. CONTRACTOR SHALL CONFIRM CABLE AND CONDUIT REQUIREMENTS PRIOR TO INSTALLATION.
2. CONDUITS SHALL BE PROVIDED AS INDICATED ON ONE-LINE DIAGRAM. CIRCUITS SHALL NOT BE COMBINED UNLESS OTHERWISE NOTED ON DRAWINGS OR APPROVED BY ENGINEER.
3. ALL CONDUIT TURN-UPS SHALL BE RIGID STEEL. ALL EXPOSED CONDUIT IN BUILDING SHALL BE INTERMEDIATE METAL.
4. CONTRACTOR SHALL FIELD LOCATE CONDUITS FOR BELT PRESS.

SYMBOL LEGEND

- ① RECEPTACLES 48" AFF GF1, WP
- ② RECEPTACLES 42" AFF GF1
- ③ RECEPTACLES 42" AFG GF1, WP

AS-BUILT

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ELECTRICAL
SLUDGE PRESS BUILDING
POWER PLAN

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN
Date: FEB. 2012
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DRAWING NAME: \\SERVER\Engineering\Mariano & McCaugan (ch'd to MBD 2-1-14)\Conway WWTP\Elec\As-Built\E-7 SP BLDG LIGHTING PLAN.dwg - E-7 SP BLDG LIGHTING PLAN Feb 07, 2019 - 2:56pm

SLUDGE PRESS BUILDING LIGHTING FIXTURE SCHEDULE				
SYMBOL	LAMP	MOUNTING	DESCRIPTION	MANUFACTURER
	TWO (2) F32T8CW	PENDANT CEILING MOUNT	1X4 INDUSTRIAL DAMP LOCATION FLUORESCENT, 2 LAMP, ELECT. BALLAST FIBERGLASS HOUSING, 120 VAC	COLUMBIA LUN4-217-EU OR EQUIVALENT.
	TWO (2) HEADS	WALL MOUNT 10'-0" A.F.F.	EMERGENCY LIGHT, 2 LAMP, NEMA RATED, SEALED, GASKETED, 120 VAC	SURE LITE UMB1 OR EQUIVALENT.
	100W	WALL MOUNT 10'-0" A.F.F.	OUTDOOR, WALL MOUNTED, METAL HALIDE, 100W, 120VAC WITH PHOTOCELL	HUBBEL PGM3-100P-18-BZ-L OR EQUIVALENT.
	TWO (2) HEADS	WALL MOUNT CENTERED ABOVE DOOR 10'-0" A.F.F.	COMBINATION LED EXIT SIGN AND EMERGENCY LIGHT, WHITE WITH RED LETTERS, 120VAC, w/BATTERY PACK.	LITHONIA LHQM-SW-3-R OR EQUIVALENT.
	ONE (2) 6W	WALL MOUNT OUTSIDE CENTERED ABOVE DOOR 10'-0" A.F.F.	EMERGENCY LIGHTING REMOTE HEAD UNIT WITH TWO 6VDC 6W LAMP.	SURE LITES 6T6DWXX OR EQUIVALENT.

NOTES:
1. SEE SHEET E-1 FOR LEGEND AND ABBREVIATIONS.

PANEL: LP1					VOLTAGE:		208Y/120 VOLT, 3PH, 4W, 60 Hz		100% NEUTRAL BUS									
LOCATION: MAINTENANCE ROOM					MAINS:		100 AMP MLO		LOCK ON									
FED FROM: TX1 VIA PP1							100 AMP MAIN BREAKER		SHUNT TRIP									
MOUNTING: ☐ UNITIZED SWITCHGEAR					☐ FLUSH		☒ SURFACE		MINIMUM AIC RATING: 42 KA									
		BRANCH CIRCUIT						BRANCH CIRCUIT										
NOTES	COND SIZE	WIRE SIZE	AMP TRIP	POLES	DESIGNATION	VOLT-AMPS	NO.	PHASE LOAD (VOLT-AMPS)			NO.	VOLT-AMPS	DESIGNATION	POLES	AMP TRIP	WIRE SIZE	COND SIZE	NOTES
								A	B	C								
	3/4	12	20	1	LIGHTS MAINT. ROOM	675	1	955			2	280	LIGHTS LAB	1	20	12	3/4	
	3/4	12	20	1	LIGHTS HC BATH#3	465	3		1490		4	995	LIGHTS SLUDGE ROOM	1	20	12	3/4	
	3/4	12	20	1	EXTERIOR LIGHTS	600	5			1680	6	1080	RECEPTACLES MAINT. ROOM	1	20	12	3/4	
	3/4	12	20	1	RECEPTACLES MAINT. ROOM	1080	7	2340			8	1260	RECEPTACLES LAB/HC BATH	1	20	12	3/4	
	3/4	12	20	1	RECEPTACLES LAB	720	9		1220		10	500	RECEPTACLE WATER COOLER	1	20	12	3/4	
	3/4	12	20	1	RECEPTACLES SLUDGE ROOM	900	11			1980	12	1080	RECEPTACLES SLUDGE ROOM	1	20	12	3/4	
	3/4	12	20	1	RT-1	500	13	2648			14	2148	HP-1	2	30	10	3/4	
	1	6	50	2	RECEPTACLE 208V, 1PH	2880	15		5028		16	2148				10		
		6				2880	17			5760	18	2880	AHU-1	2	30	10	3/4	
	3/4	12	20	1	SCP-1	500	19	3360			20	2880				10		
	3/4	12	20	1	RP-1	500	21		500		22	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	23			0	24	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	25	0			26	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	27		0		28	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	29			0	30	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	31	0			32	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	33		0		34	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	35			0	36	0	SPARE	1	20	-	-	
-	-	-	20	1	SPARE	0	37	0			38	0	SPARE	1	30	-	-	
-	-	-	20	1	SPARE	0	39		0		40	0	SPARE	1	30	-	-	
-	-	-	20	1	SPARE	0	41			0	42	0	SPARE	1	30	-	-	
TOTALS PER PHASE								9323	8238	9420	TOTAL CONNECTED LOAD (VA)						26,981	
TOTALS AMPS PER PHASE								78	69	79								
NOTES: NEMA 12 SS ENCLOSURE																		

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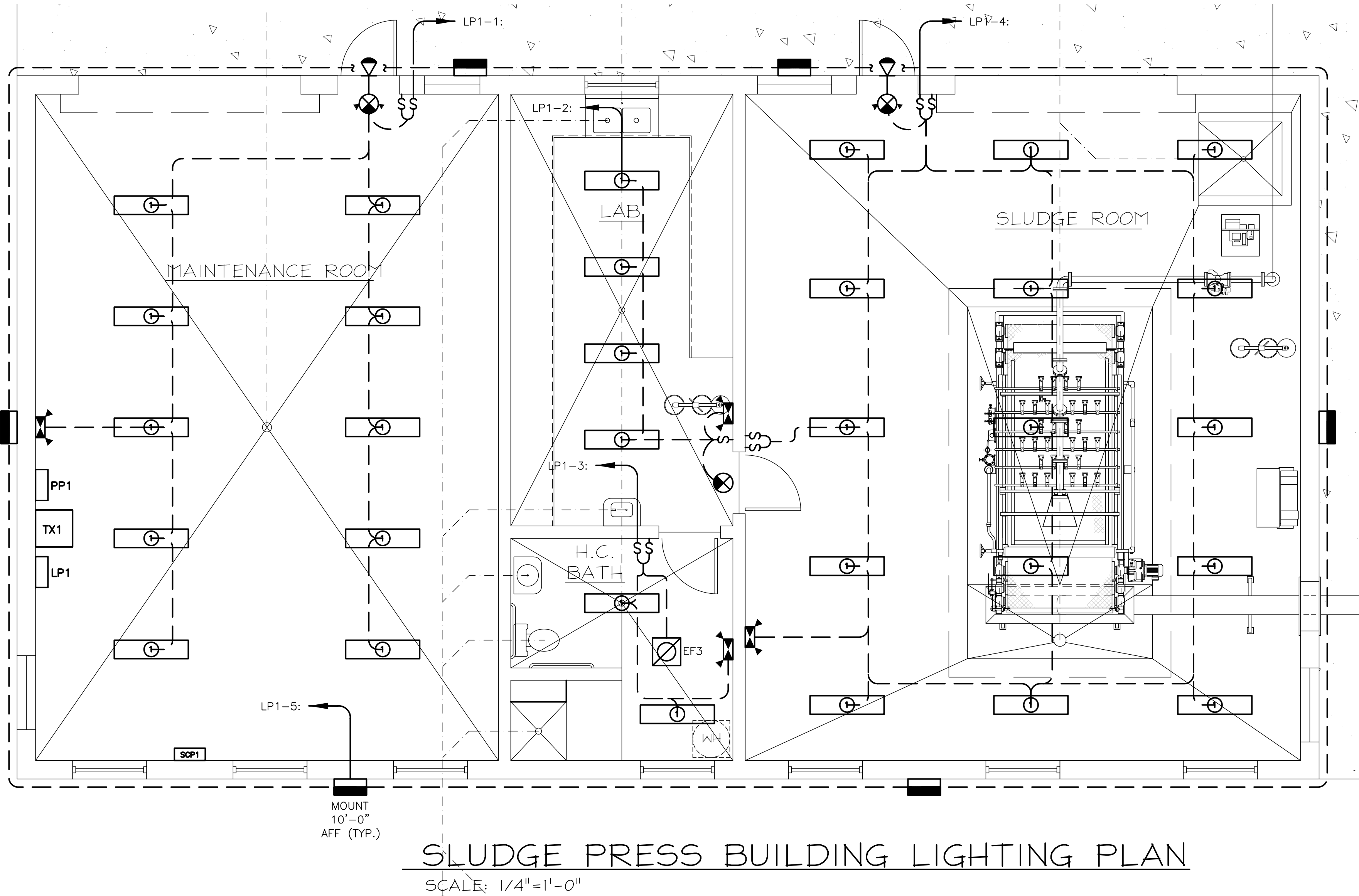
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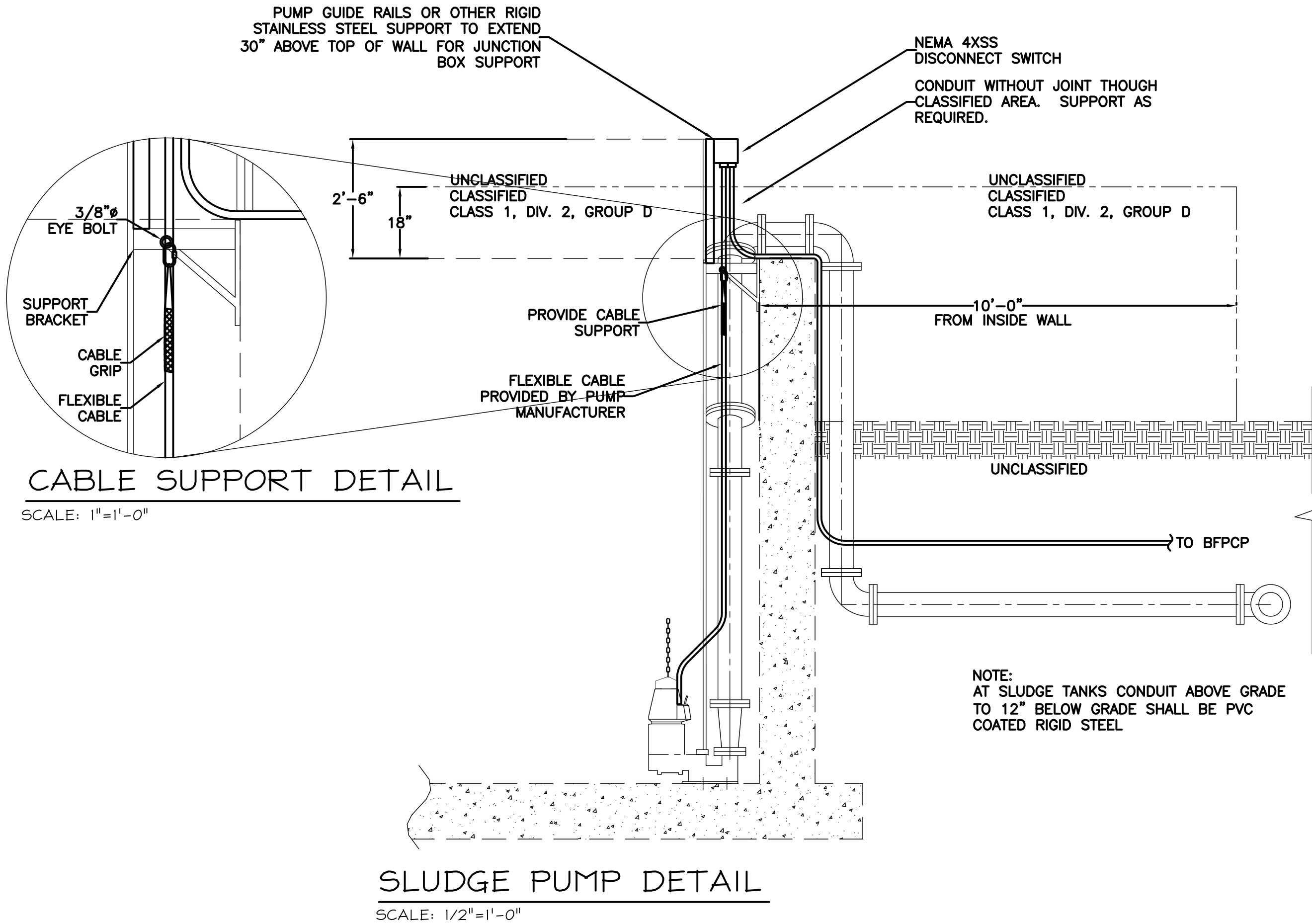
ELECTRICAL
SLUDGE PRESS BUILDING
LIGHTING PLAN

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

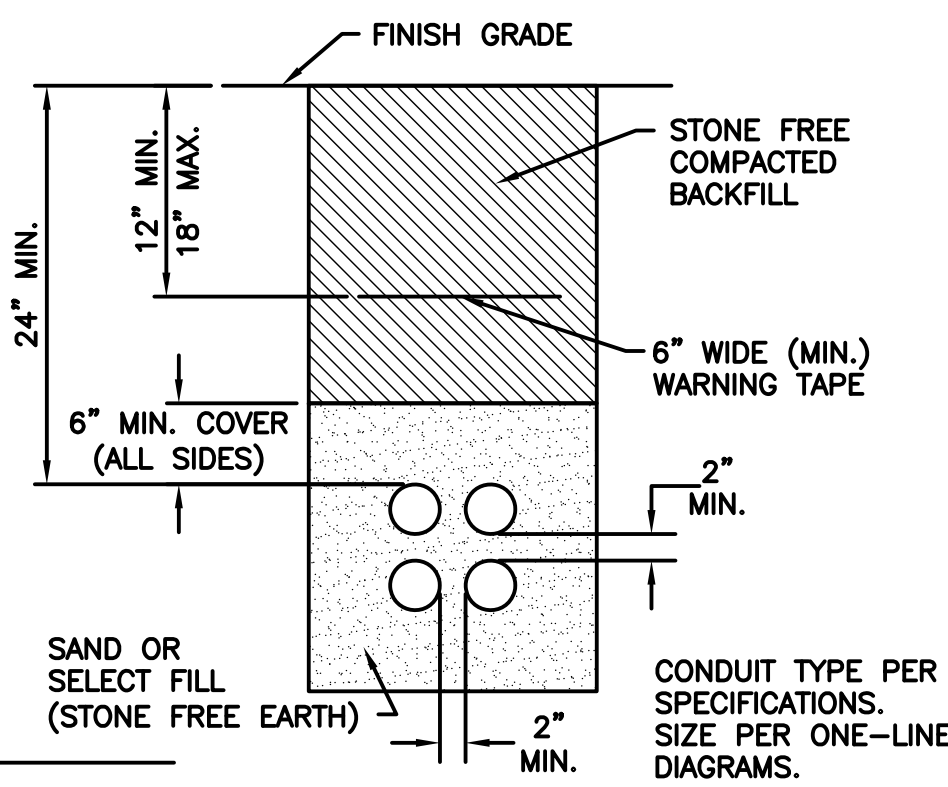
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Date: FEB. 2012
Drawn: REH
Checked: RWS
Job No.: 30004
Sheet No.: E-7
Of: 3 Version: 3



DRAWING NAME: \\SERVER\Engineering\Marziano & McGaughey (ch'd to MBD 2-1-14)\Conway WWTP\Elec\As-Built\E-8 ELECTRICAL DETAILS.dwg - E-8 DETAILS Feb 07, 2019 - 2:59pm

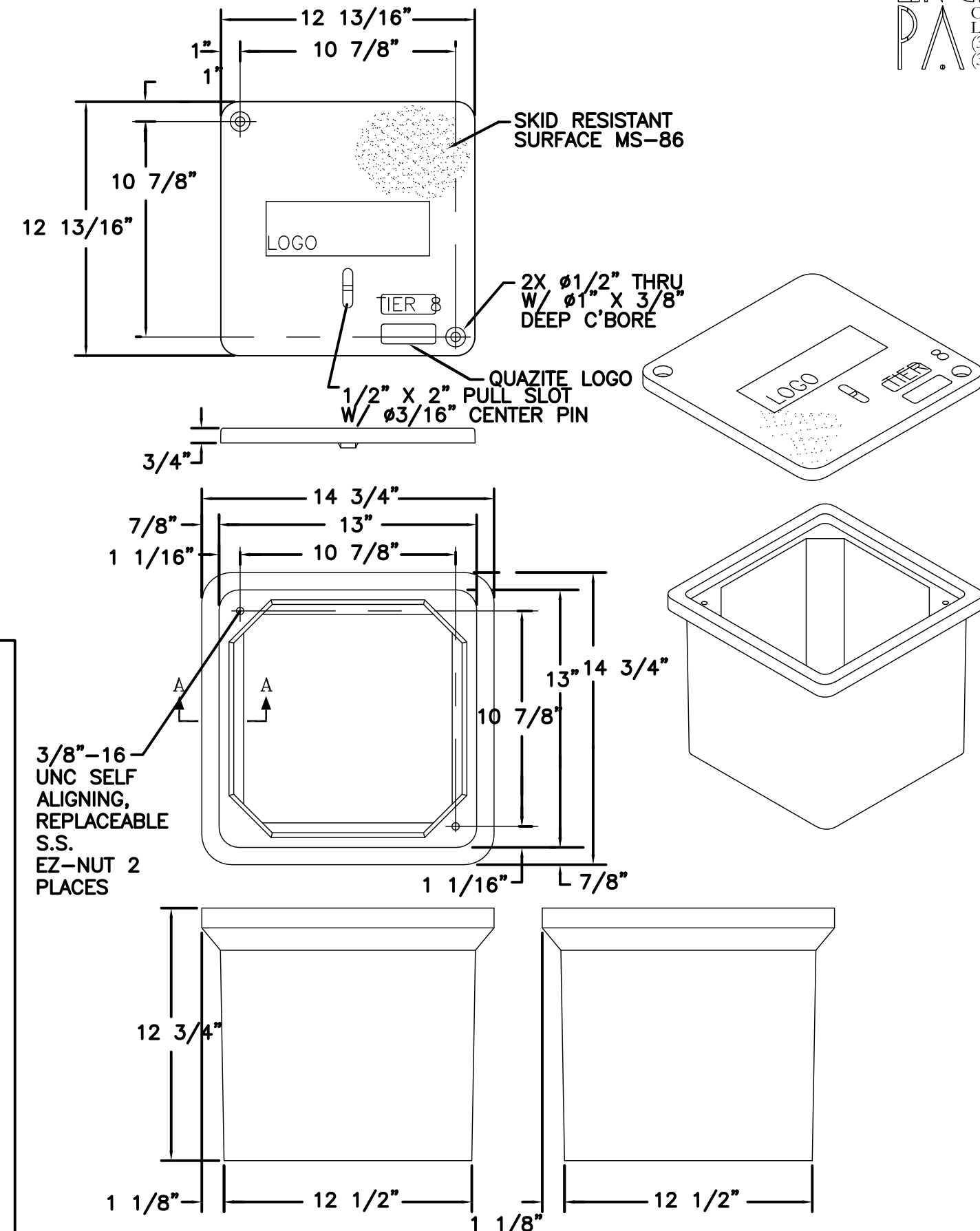


- NOTES:
1. LOGO TO BE SPECIFIED:
 2. FURNISHED WITH (2) 3/8"-16 UNC X 1 1/2 LG. S.S. HEX HEAD BOLTS AND (2) 3/8" S.S. FLAT WASHERS.
 3. THIS TIER 8 COVER IS RATED FOR A STATIC DESIGN LOAD OF 8,000 LBS. OVER A 10 X 10 AREA AND MUST PASS A MIN. STATIC TEST LOAD OF 12,000 LBS.



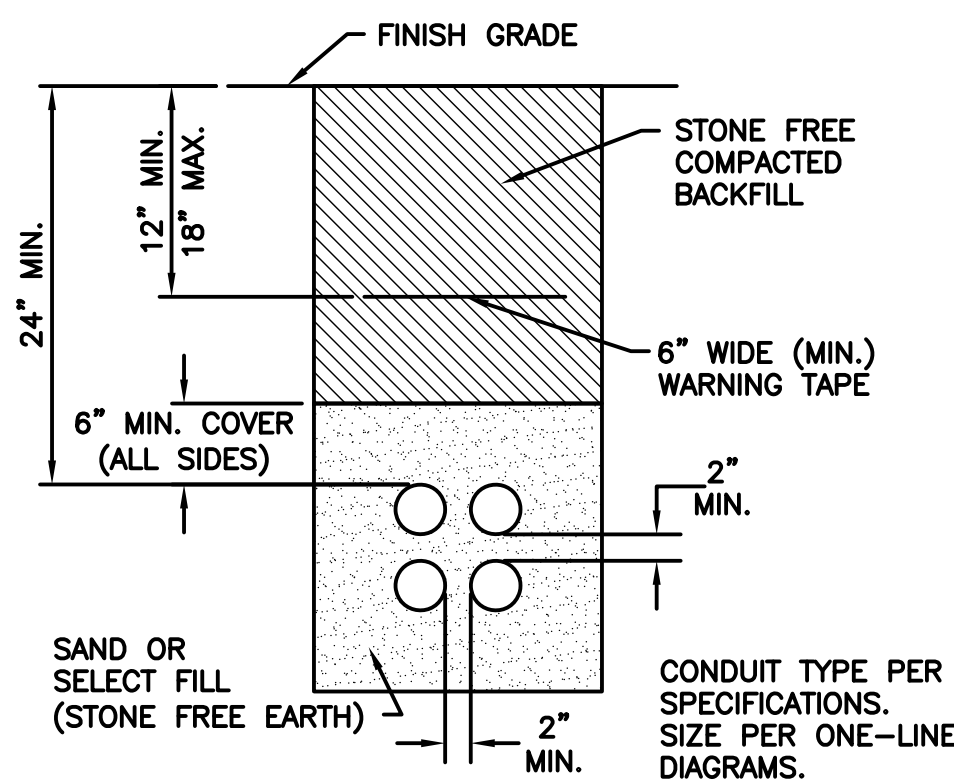
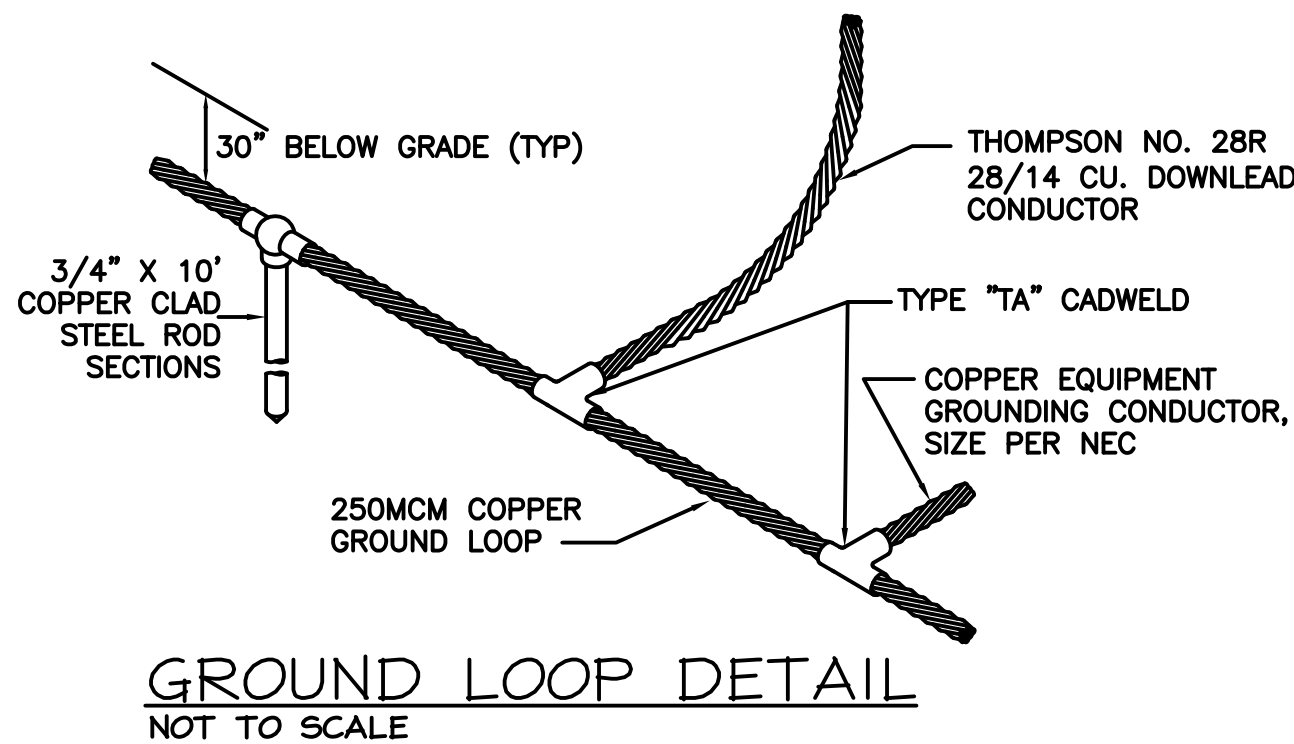
DIRECT BURIED CONDUIT DETAIL

NOT TO SCALE



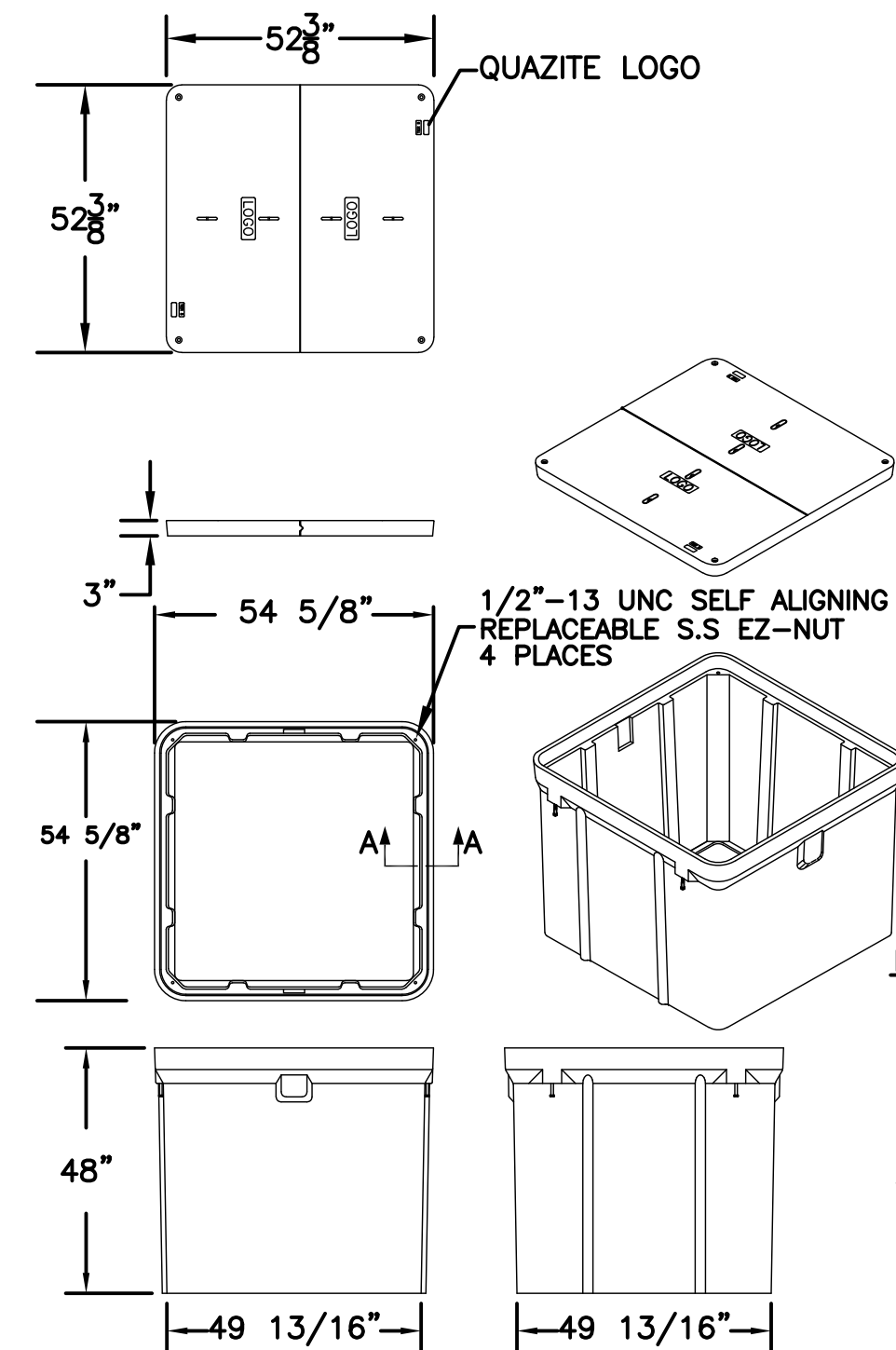
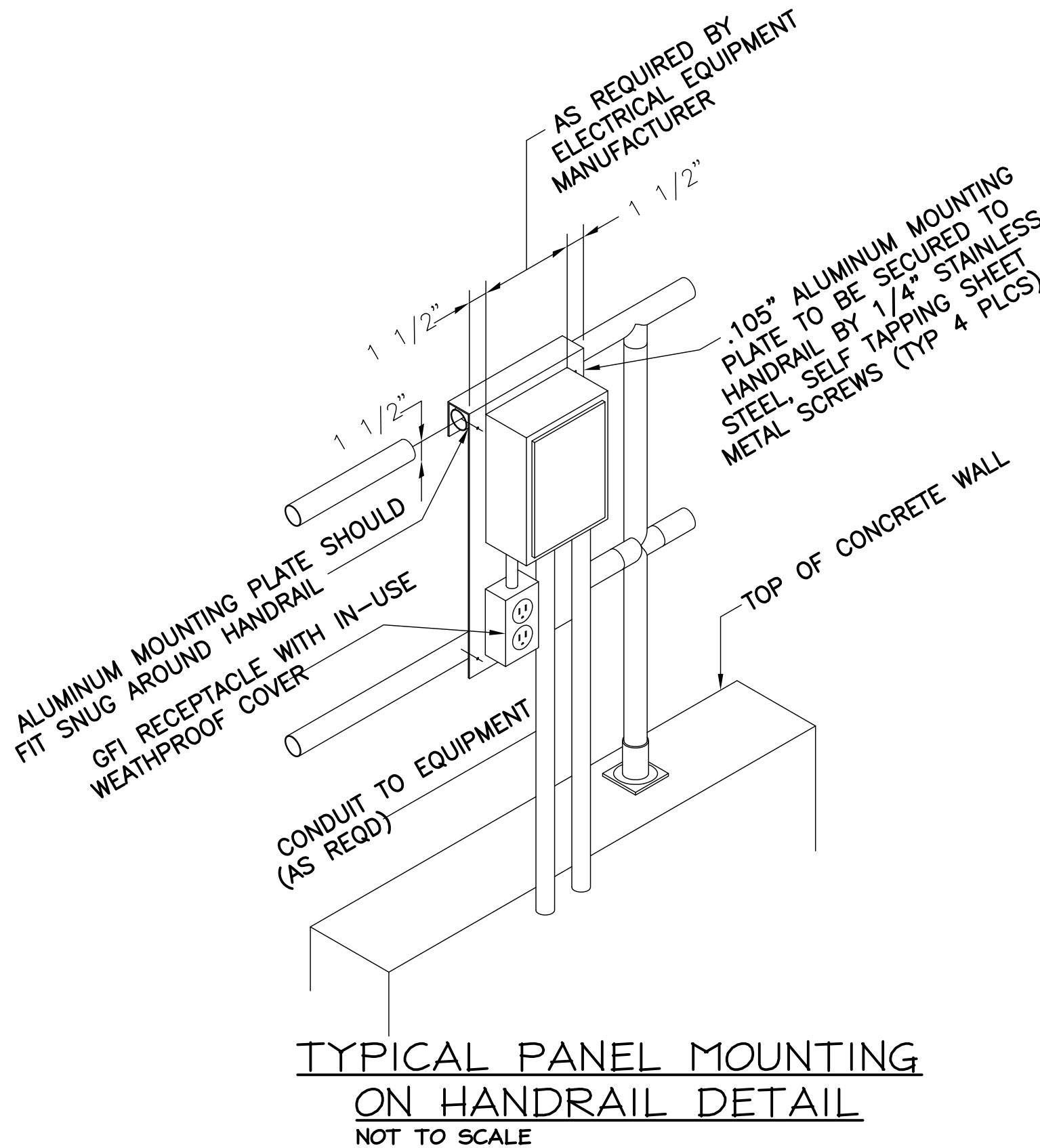
EHH (TYPE 2)

NOT TO SCALE



DIRECT BURIED CONDUIT DETAIL

NOT TO SCALE



- NOTES:
1. FURNISHED W/ (4) 1/2"-13 UNC X 4 LG. S.S. HEX HEAD BOLTS AND (4) 1/2" S.S. FLAT WASHERS.
 2. THIS COVER IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LBS OVER A 10 X 10 AREA AND MUST PASS A MINIMUM STATIC TEST LOAD OF 7,500 LBS.

EHH (TYPE 1)

SCALE: NO SCALE

AS-BUILT

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ELECTRICAL
DETAILS

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN

Date: FEB. 2012

Drawn: REH

Checked: RWS

Job No.: 30004

Sheet No.:

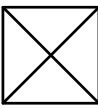
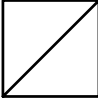
E-8

Of: 3 Version: 3

DRAWING NAME: Z:\2011\11115\11115-H1.dwg - H-1 Feb. 07, 2019 - 4:49pm

ABBREVIATIONS	
AC	AIR CONDITIONING PACKAGED UNIT
ACH	AIR CHANGE RATE PER HOUR
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AW	APPLIANCE WHITE
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
DB	DRY BULB TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECP	ELECTRONIC CONTROL PANEL
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FD	FIRE DAMPER
GC	GENERAL CONTRACTOR
IAW	IN ACCORDANCE WITH
LAT	LEAVING AIR TEMPERATURE
MC	MECHANICAL CONTRACTOR
MOD	MOTOR OPERATED DAMPER
MVD	MANUAL VOLUME DAMPER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OW	OFF WHITE
PC	PLUMBING CONTRACTOR
RA	RETURN AIR
RTU	ROOFTOP PACKAGED UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
STOD	45° SIDE TAKEOFF WITH MANUAL VOLUME DAMPER
SP	STATIC PRESSURE
TAB	TESTING, ADJUSTING, AND BALANCING
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

- ### MECHANICAL NOTES
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING CONFIGURATION, etc.
 - ALL DUCTWORK SHALL BE SUPPORTED AS PER SMACNA STANDARDS.
 - ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER TRADES OR AVOID INTERFERENCE.
 - ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH WITH SMACNA STANDARDS EXCEPT AS NOTED OTHERWISE. ALL SQUARE ELBOWS SHALL HAVE SINGLE THICKNESS TURNING VANES.
 - MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO CFM's INDICATED ON THE PLANS AND PROVIDE ENGINEER AND OWNER WITH COMPLETE BALANCE REPORT (NEBB OR AABC CERTIFICATION).
 - LOCATE ALL THERMOSTATS AND SWITCHES 4'-0" ABOVE FINISHED FLOOR.
 - ALL BRANCH DUCT RUNS SHALL HAVE A MANUAL VOLUME DAMPER WHETHER INDICATED ON THE DRAWINGS OR NOT.
 - ALL CUTTING, PATCHING OF SLAB, ROOF OR OTHER BUILDING COMPONENTS TO BE BY THE INSTALLING CONTRACTOR.
 - ALL DUCT DIMENSIONS SHOWN OR NOTED ON PLANS ARE INSIDE CLEAR.
 - ALL DUCT DIMENSIONS SHOWN OR NOTED ON PLANS ARE INSIDE CLEAR.
 - PROVIDE LAMINATED MARKER ABOVE THERMOSTATS TO READ AS FOLLOWS: "THERMOSTAT SHALL ACT AS EMERGENCY STOP SWITCH"

MECHANICAL LEGEND	
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
	THERMOSTAT
	TEMPERATURE SENSOR
	DAMPER ACTUATOR
	ON-OFF SWITCH
	DUCT MOUNTED SMOKE DETECTOR
SA-500	SUPPLY DIFFUSER OR RETURN GRILLE TAG AT DESIGNED CFM
	MANUAL VOLUME DAMPER

MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT		
	VENTILATED AREAS	LAB AREA
METHOD OF COMPLIANCE		
PRESCRIPTIVE	YES	YES
CLIMATE ZONE	3	3
THERMAL ZONE		
WINTER DRY BULB	21°F	21°F
SUMMER DRY BULB	94°F	94°F
INTERIOR DESIGN CONDITIONS		
WINTER DRY BULB	55°F	68°F
SUMMER DRY BULB	N/A	74°F
RELATIVE HUMIDITY	N/A	50
BUILDING HEATING LOAD (BTU/HR)		
	136,520	21,000
BUILDING COOLING LOAD (BTU/HR)		
	N/A	22,000
MECHANICAL SPACING CONDITIONING SYSTEM		
UNITARY		
DESCRIPTION OF UNIT	ELECTRIC UNIT HEATERS	SPLIT SYSTEM HEAT PUMP
HEATING EFFICIENCY	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
COOLING EFFICIENCY	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
HEATING OUTPUT OF UNIT	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
COOLING OUTPUT OF UNIT	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
BOILER		
TOTAL BOILER OUTPUT. IF OVERSIZED, STATE REASON.	N/A	N/A
CHILLER		
TOTAL CHILLER CAPACITY. IF OVERSIZED, STATE REASIN.	N/A	N/A
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)		
MOTOR HORSEPOWER	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
NUMBER OF PHASES	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
MINIMUM EFFICIENCY	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
MOTOR TYPE	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1
No. OF POLES	SEE SCHEDULES ON SHEET H-1	SEE SCHEDULES ON SHEET H-1

DRAWING LIST	
SHEET No.	DRAWING TITLE
H-1	HVAC SCHEDULES AND GENERAL NOTES
H-2	HVAC PLAN

FAN SCHEDULE										
TAG	MFR	MODEL	CFM	SP in WC	FAN RPM	HP	MAX SONES	POWER VOLTS/PH	WEIGHT LB	NOTES
EF-1	GREENHECK	SBE-2H20-7	3,600	0.500	1,366	3/4	24.0	480/3	150	1,2,5,7
EF-2	GREENHECK	SBE-2H20-7	3,600	0.500	1,366	3/4	24.0	480/3	150	1,2,5,7
EF-3	GREENHECK	SP-B150	100	0.375	1,557	1/8	2.2	120/1	15	1,3,4,6

- NOTES:
- EXHAUST FANS SHALL BE GREENHECK, COOK, PENN OR APPROVED EQUAL.
 - PROVIDE FANS WITH DISCONNECT, GRAVITY BACK DRAFT DAMPER, WEATHERHOOD, WALL HOUSING WITH MOTOR GUARD, BEARINGS WITH GREASE FITTINGS, AND EXTENDED LUBRICATION LINES.
 - PROVIDE FAN WITH BACKDRAFT DAMPER AND SPEED CONTROLLER.
 - PROVIDE FAN WITH WITH HOODED WALL CAP.
 - CONTROLLED BY THERMOSTAT.
 - CONTROLLED BY SWITCH INSTALLED BY EC.
 - PROVIDE HI-PRO POLYESTER DARK GRAY FINISH.

AIR DISTRIBUTION SCHEDULE						
TAG	MFR	MODEL	LISTED SIZE	FACE	FINISH	NOTES
SA	PRICE	ASCD-31	6ø	12x12	OW	1,2
SB	PRICE	SMD-4A	10ø	20x20	OW	1,2
RA	PRICE	81-F	14x14x14ø	--	OW	1,2,3

- NOTES:
- AIR DISTRIBUTION SHALL BE METALAIRE, KRUEGER, PRICE, OR ENGINEER APPROVED EQUAL.
 - ALL AIR DISTRIBUTION IS SURFACED MOUNTED.
 - PROVIDE A SQUARE TO ROUND TRANSITION.

UNIT HEATER SCHEDULE							
TAG	MFR	MODEL	CFM	KW	°F RISE	DISCHARGE	VOLTS/PH
UH-1	MARKEL	5100	1,100	20.0	57	HORIZONTAL	480/3
UH-2	MARKEL	5100	1,100	20.0	57	HORIZONTAL	480/3
UH-3	MARKEL	5100	400	5.0	40	HORIZONTAL	480/3
UH-4	MARKEL	5100	400	5.0	40	HORIZONTAL	480/3

- NOTES:
- UNIT HEATERS SHALL BE MARKEL. CHROMALOX, TRANE OR APPROVED EQUAL.
 - PROVIDE UNIT HEATERS WITH LOW VOLTAGE (120V) REMOTE THERMOSTAT, POWER DISCONNECT SWITCH, AND CEILING MOUNTING BRACKET.

AIR HANDLING UNIT SCHEDULE																		
TAG	MFR	MODEL	NOMINAL TONS	SUPPLY CFM	MIN OA CFM	ESP in WC	SUPPLY FAN HP	COOLING CAPACITY				HEATING CAPACITY AT 47°F MBH	AUX. HEATING CAPACITY KW	COP	SEER	MCA	MOCP	POWER VOLTS/PH
								EAT °Fdb / °Fwb	LAT °Fdb / °Fwb	TOTAL MBH	SENSIBLE MBH							
AHU-1	TRANE	4TEC3F24	2.0	800	120	0.50	1/3	80.0	67.0	60.5	57.5	23.2	16.6	22.5	3.60	3.34	13.0	208/1

- NOTES:
- AIR HANDLING UNITS SHALL BE TRANE, CARRIER, YORK, LENNOX, OR ENGINEER APPROVED EQUAL.
 - AIR HANDLING UNITS SHALL BE PROVIDED WITH ELECTRIC HEAT, FILTERS, SINGLE POINT ELECTRICAL CONNECTION, AND DX COOLING (R410A).
 - PROVIDE ONE 7-DAY PROGRAMMABLE THERMOSTAT WITH DIGITAL DISPLAY AND AUTOMATIC CHANGE OVER.

HEAT PUMP SCHEDULE											
TAG	MFR	MODEL	NOMINAL TONS	No. OF COMP.	COP	SEER	MCA	MOCP	POWER VOLTS/PH	WEIGHT lb	NOTES
HP-1	TRANE	4TWB3024A	2.0	1	3.34	13.0	12.0	20	208/1	225	1-2

- NOTES:
- HEAT PUMP UNIT SHALL BE TRANE, CARRIER, YORK, LENNOX, OR ENGINEER APPROVED EQUAL.
 - REFRIGERANT PIPING SHALL BE SIZED BY THE EQUIPMENT MANUFACTURER.

LOUVER/DAMPER SCHEDULE													
LOUVER TAG	DAMPER ACTUATOR TAG	MFR	LOUVER MODEL	DAMPER MODEL	WIDE (IN)	HIGH (IN)	FREE AREA (SF)	FRAME TYPE	BIRD SCREEN	FINISH	END SWITCH	NUMBER OF ACTUATORS	ACTUATOR POWER VOLTS/PH
L-1	DA-1	RUSKIN	ELF375D	CD60	36	48	6.12	FLANGED	YES	BAKED ENAMEL	YES	1	120/1
L-2	DA-2	RUSKIN	ELF375D	CD60	36	48	6.12	FLANGED	YES	BAKED ENAMEL	YES	1	120/1

- NOTES:
- ALL LOUVERS SHALL BE PROVIDED IN SINGLE SECTIONS.
 - ALL DAMPERS SHALL BE PROVIDED IN TWO SECTIONS.
 - COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

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HVAC SCHEDULES AND
GENERAL NOTES

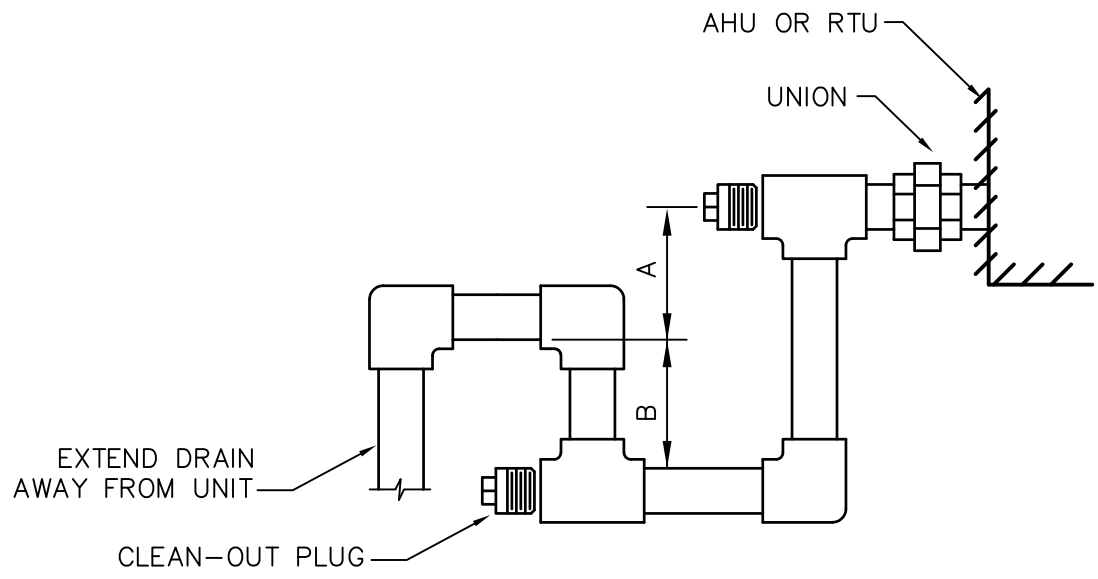
CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

Scale: AS SHOWN
Date: FEB 2012
Drawn: MDB
Checked: MDB
Job No.: 30004
Sheet No.:
H-1
Of: 1 Version: 3

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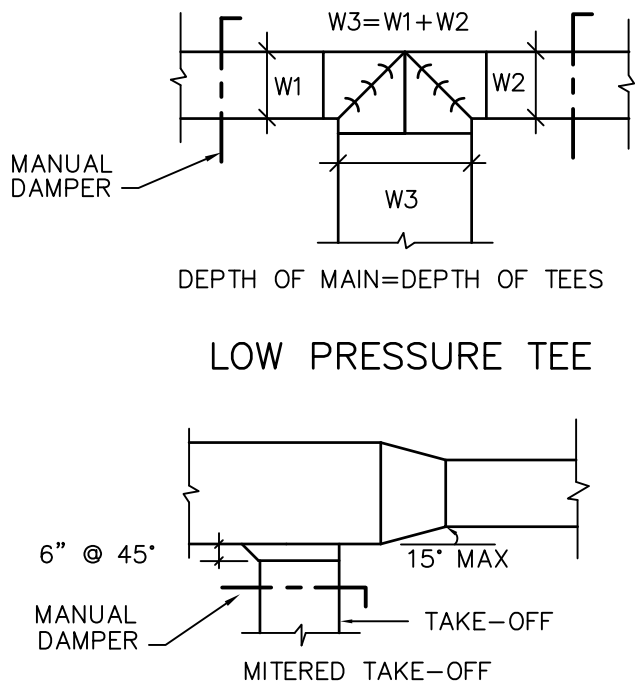
UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MIN.	2X

WHERE X = FAN STATIC PRESSURE



NOTE: CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC

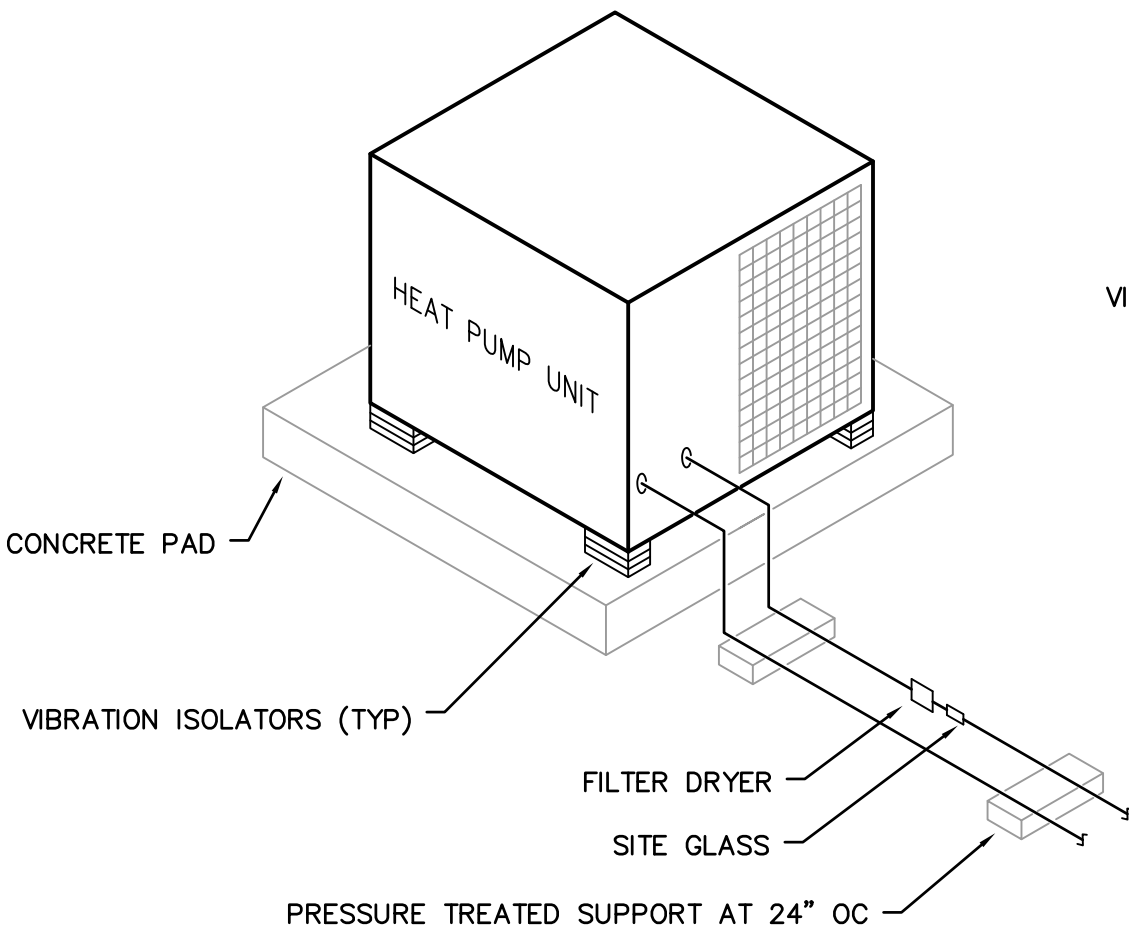
2 CONDENSATE DRAIN DETAIL
H-2 SCALE: NTS



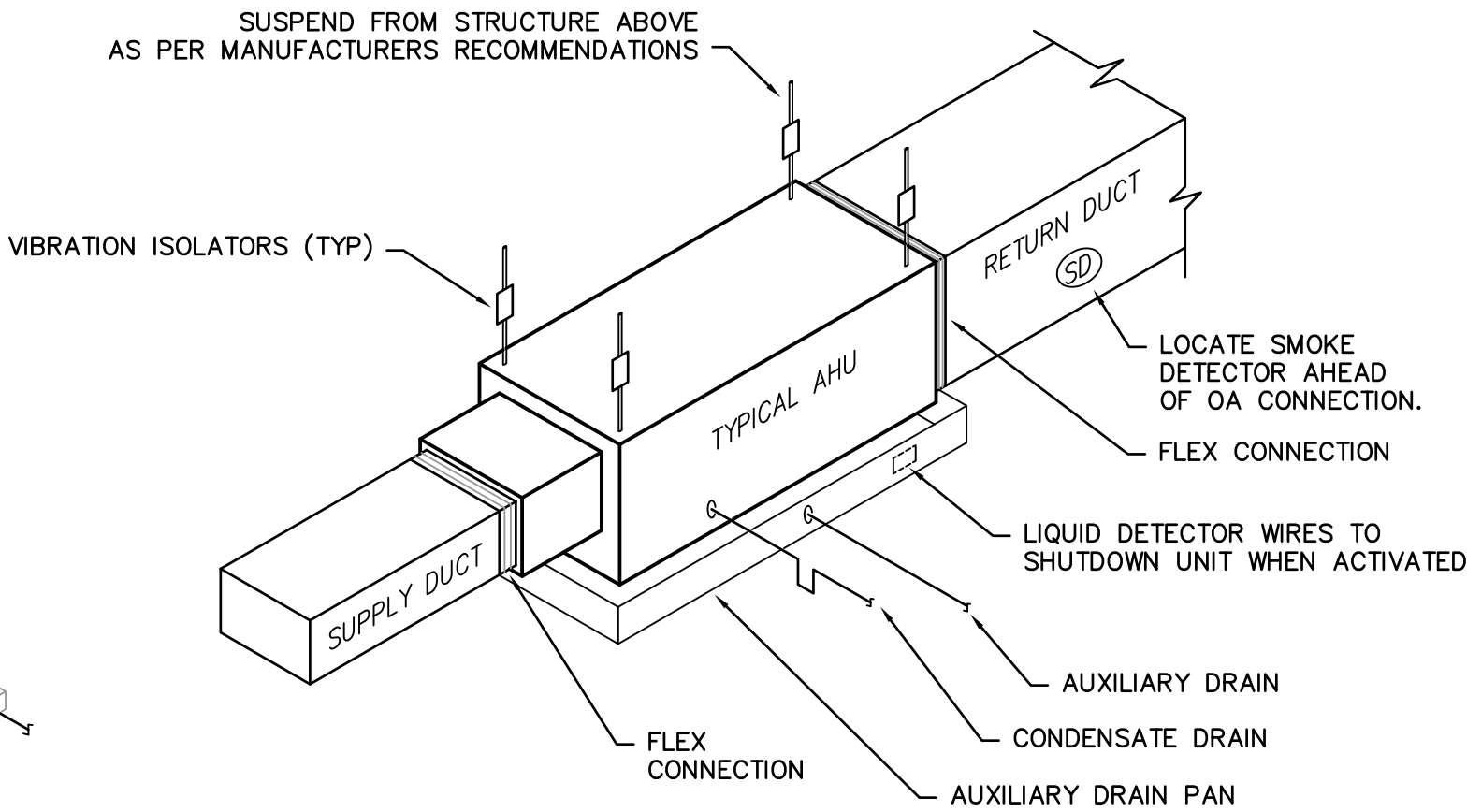
SQUARE DUCT BRANCH TAKE-OFF

DUCT ELBOWS

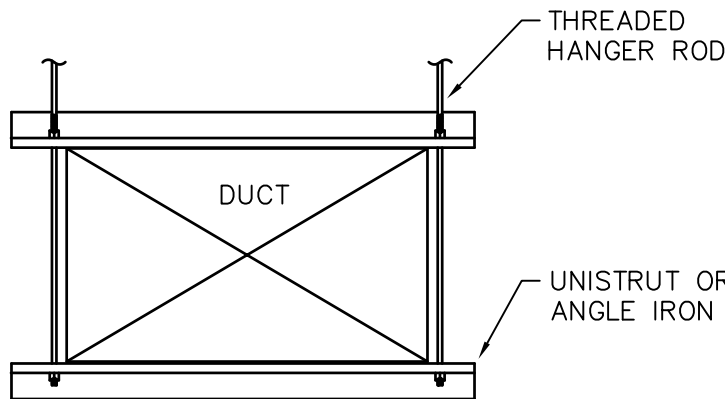
3 TYPICAL DUCT DETAILS
H-2 SCALE: NTS



4 HEAT PUMP DETAIL
H-2 SCALE: NTS

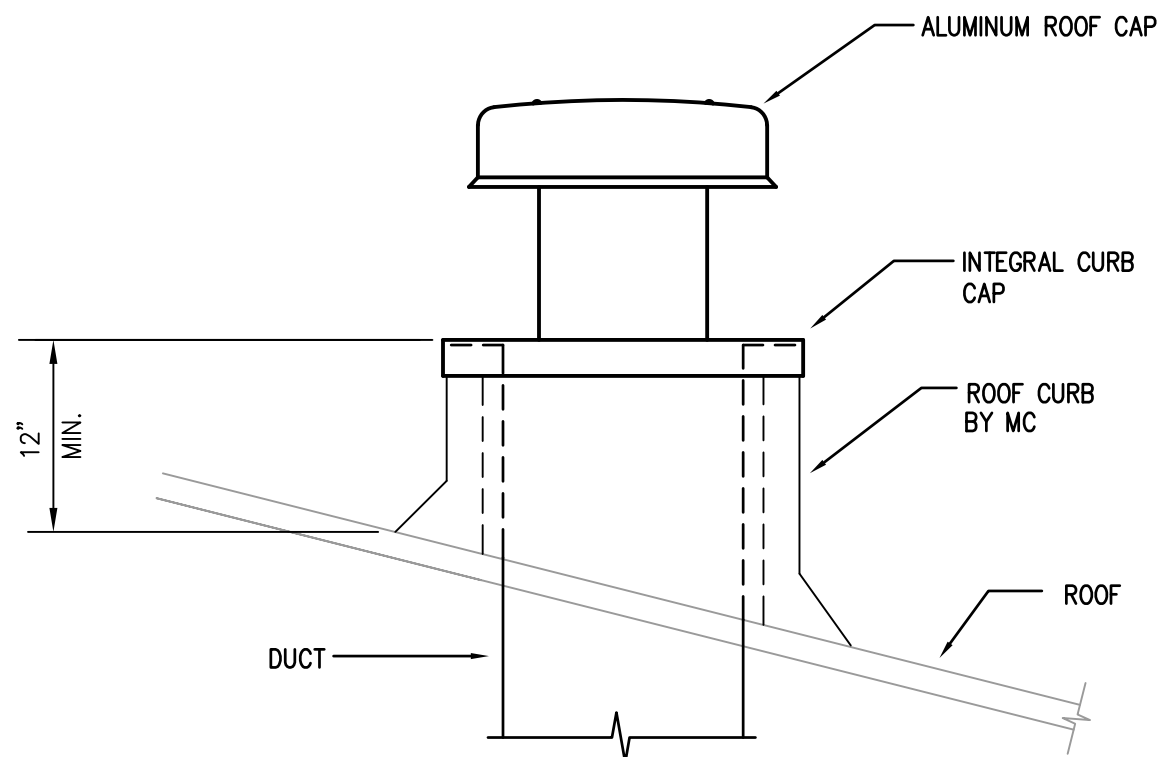


5 AIR HANDLER DETAIL
H-2 SCALE: NTS

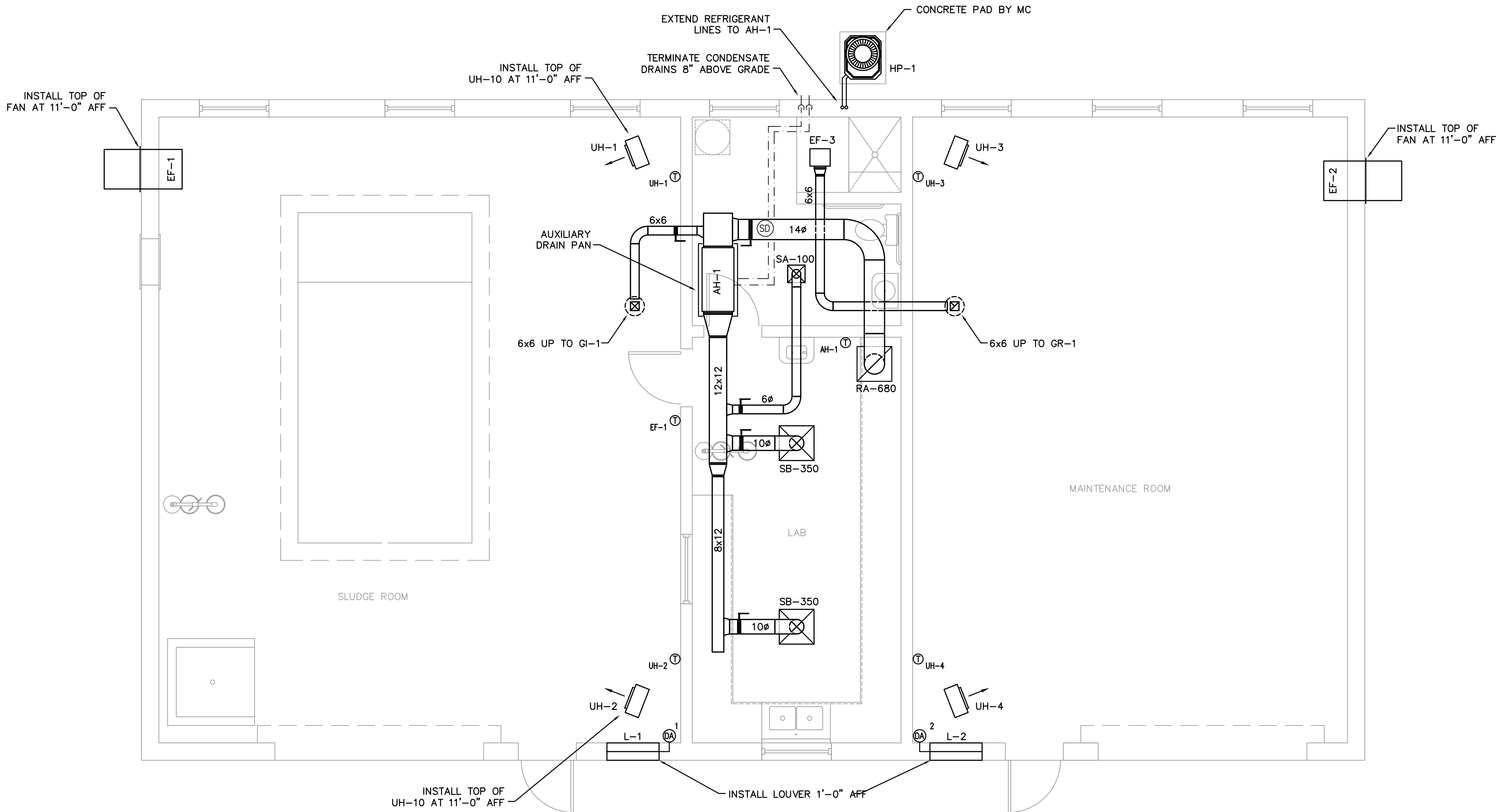


NOTE:
SUPPORTS SHALL BE SIZED AND
SPACED PER SMACNA

6 DUCT HANGER DETAIL
H-2 SCALE: NTS



7 ROOF CAP DETAIL
H-2 SCALE: NTS



1 SLUDGE PRESS BUILDING HVAC PLAN
H-2 SCALE: 1/4" = 1'-0"

AS-BUILT

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SLUDGE PRESS
BUILDING
HVAC PLAN

CONWAY WWTP
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY

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Job No.: 30004
Sheet No.:
H-2
Of: 2 Version: 3

DRAWING NAME: Z:\2011\11115\11115-P1.dwg - P-1 Feb 07, 2019 - 4:51pm

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFWH	ANTI FROST WALL HYDRANT
AW	APPLIANCE WHITE
CO2	CARBON DIOXIDE
CA	COMPRESSED AIR
CO	CLEANOUT
COND	CONDENSATE
CW	DOMESTIC COLD WATER
EC	ELECTRICAL CONTRACTOR
FD	FLOOR DRAIN
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
MC	MECHANICAL CONTRACTOR
NG	NATURAL GAS
NTS	NOT TO SCALE
OW	OFF WHITE
PC	PLUMBING CONTRACTOR
SA	SHOCK ABSORBER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VAC	VACUUM
W	WASTE

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES WITHIN JURISDICTION.
- FINAL UTILITY CONNECTIONS (GAS, ELECTRIC, WATER ETC.) TO EQUIPMENT SHALL BE MADE BY THE CONTRACTOR INSTALLING THE EQUIPMENT REQUIRING THE UTILITIES.
- PLANS AND ISOMETRICS ARE DIAGRAMMATIC. THERE IS NO INTENT TO INDICATE ALL AND FITTINGS REQUIRED. GENERALLY, PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO AND PLUMB WITH WALL CONSTRUCTION. SPECIAL CARE SHALL BE TAKEN TO COORDINATE EQUIPMENT AND PIPING LOCATIONS WITH ALL OTHER TRADES. IF INTENT OF DESIGN IS NOT CLEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- SOIL AND WASTE PIPING SHALL BE LAID ON MINIMUM 1/4" PER FT. SLOPE FOR PIPE SIZES LESS THAN 2-1/2", AND MINIMUM 1/8" PER FT. FOR PIPE 3" AND LARGER.
- CONSTRUCTION INTERFACE BETWEEN PLUMBING AND OTHER SUB-CONTRACTS (I.E. HVAC EQUIPMENT, ELECTRICAL WORK, ETC.) SHALL BE CLOSELY COORDINATED WITH OTHER DRAWINGS INCLUDED WITH THESE DOCUMENTS. PLUMBING CONTRACTOR RESPONSIBLE FOR FINAL CONNECTIONS TO EQUIPMENT (NOTED WITHIN THESE DRAWINGS) REQUIRING WASTE OR WATER.
- VALVES AND DEVICES INSIDE CHASES OR WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE PROVIDED WITH APPROPRIATELY SIZED ACCESS PANEL COMPATIBLE WITH SURROUNDING FINISHES. SUCH ACCESS PANELS SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR FOR INSTALLATION BY THE GENERAL CONTRACTOR.
- PIPING PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPROPRIATE U.L. ASSEMBLY DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL U.L. ASSEMBLY FIRE STOP DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS AND PARTITIONS AND FOR PARTITION THICKNESS AND CONSTRUCTION MATERIALS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	DEMOLITION OF EXISTING PIPE
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	WASTE
	VENT
	FLOOR DRAIN
	FLOOR CLEANOUT
	FLOOR SINK
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER
	PRESSURE REDUCING VALVE
	UNION
	FROST PROOF HYDRANT W/VB
	HOSE BIBB W/VB
	TRAP PRIMER
	SHOCK ABSORBER

DRAWING LIST

SHEET No.	DRAWING TITLE
P-1	PLUMBING GENERAL NOTES AND SCHEDULES
P-2	SLUDGE PRESS BUILDING PLUMBING PLAN

PLUMBING FIXTURE LATERAL SCHEDULE

TAG	QTY	DESCRIPTION	WASTE	VENT	CW	HW
P-1	ADA WATER CLOSET	AMERICAN STANDARD 3461.128, 17" RIM HEIGHT, 1.60 GPF, WITH OLSONITE #95 OPEN FRONT SEAT LESS COVER AND SLOAN DUAL FLUSH FLUSHOMETER WES-111 (1.6 GPF/1.1 GPF)	3"	2"	1"	--
P-2	LAVATORY	AMERICAN STANDARD 0954.00 VITREOUS CHINA WALL HUNG LAVATORY COMPLETE WITH 0059.020 SHROUD/KNEE CONTACT GUARD, CONCEALED WALL HANGER, AMERICAN STANDARD 2175.500 SINGLE CONTROL FAUCET, BRASS POP-UP, CHROME PLATED TRAP, STOPS, SUPPLIES AND ESCUTCHEONS.	1½"	1½"	½"	½"
P-3	KITCHEN SINK	JUST DL-ADA-1933-A--GR DOUBLE BOWL 18 GA SS SINK WITH J-1174-KS ADA COMPLIANT SINK, (2) J-35 DRAIN, (1) HDD-2000 SOAP DISPENSER, CHROME PLATED TRAP, STOPS, SUPPLIES AND ESCUTCHEONS.	1½"	1½"	½"	½"
P-4	WATER COOLER	OASIS MODEL P8AC BARRIER FREE WATER COOLER	1½"	1½"	½"	--
P-5	EMERGENCY EYEWASH/SHOWER	GUARDIAN G1950 SAFETY STATION WITH EYE WASH COMPLETE WITH TMV G3800 THERMOSTATIC MIXING VALVE. EXTEND 1¼" LINE FROM MIXING VALVE TO CONNECTION ON EMERGENCY SHOWER.	--	--	1"	1"
P-6	FLOOR DRAIN	MIFAB F1100-S WITH 5"ø SS STRAINER, CAST IRON TWO PIECE BODY, DOUBLE DRAINAGE FLANGE, ADJUSTABLE STAINLESS STEEL ROUND STRAINER AND ½" PRIMER TAP. SET HEIGHT OF STRAINER TO BE FLUSH WITH FINISHED FLOOR.	3"	--	--	--
P-7	FLOOR CLEANOUT	MIFAB C1100-XR-3 CLEANOUT WITH CAST IRON BODY, SS TOP ASSEMBLY, SECONDARY TEST SEAL, AND ADJUSTABLE COMBINED ACCESS COVER AND PLUG TOP ASSEMBLY WITH PRIMARY SEAL	SEE PLAN	--	--	--
P-8	ANTI-FROST WALL HYDRANT	MIFAB MHY-20 ENCASED ANTI-SIPHON AUTOMATIC DRAINING WALL HYDRANT COMPLETE WITH NON-FREEZE TYPE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, NICKEL BRONZE BOX AND HINGED COVER, ¾" HOSE CONNECTION AND KEY LOCK - MOUNT 18" ABOVE GRADE	--	--	¾"	--
P-9	SHOWER	AMERICAN STANDARD 4834Y1.ST (48x34) SHOWER BASE WITH 0034Y1.SW-R AND 0034Y1.SW-L 34" SIDE PANELS AND 4800Y1.SW-B 48" BACK PANEL; LEONARD 4500 AQUATROL PRESSURE ACTUATED MIXING VALVE, LEONARD H-05 SHOWER HEAD (2.5 GPM) WITH ARM FLANGE; MIFAB FD210C SHOWER DRAIN	2"	1½"	½"	½"

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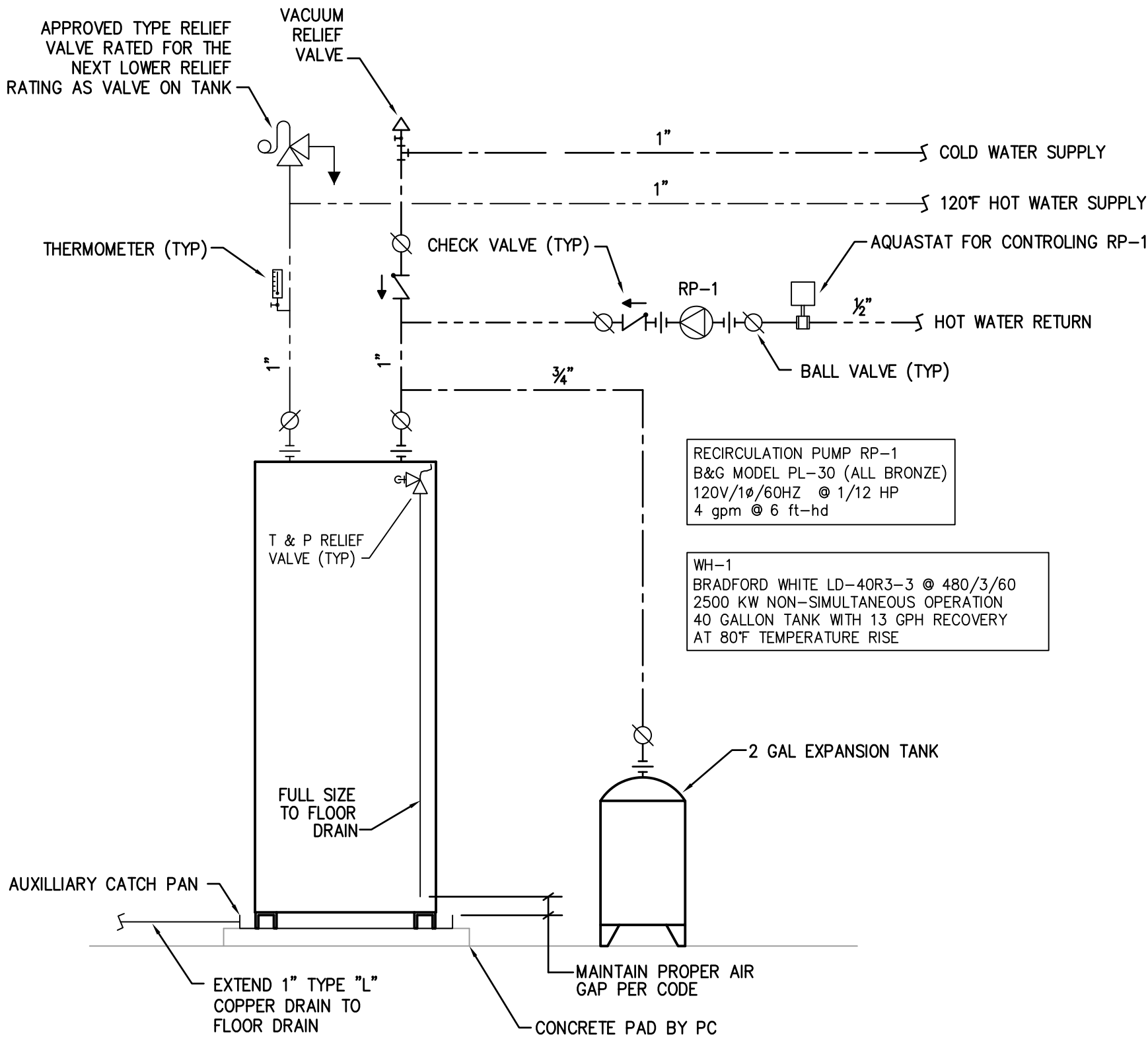
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**CONWAY WWT
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY**

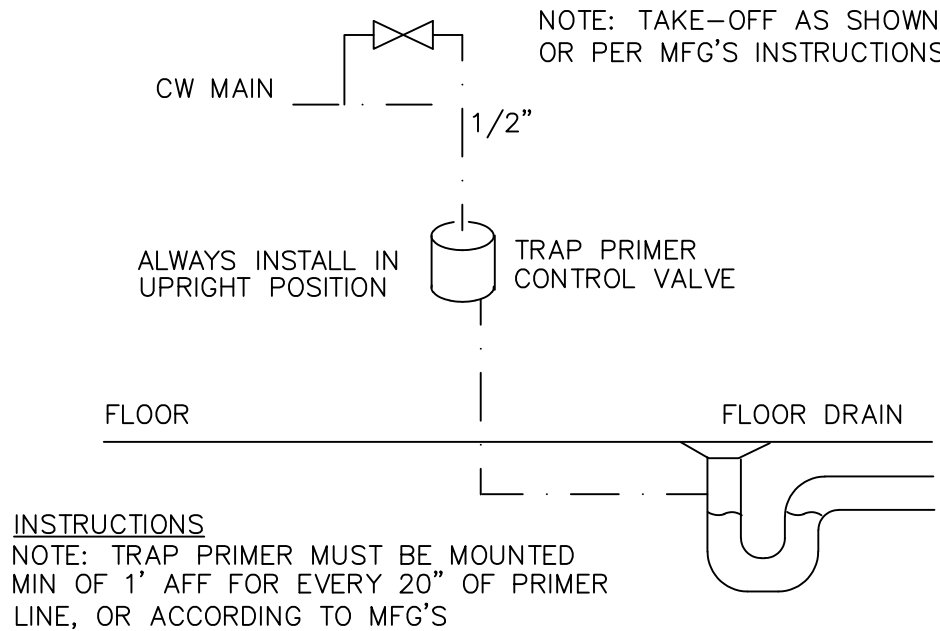
**PLUMBING GENERAL
NOTES AND SCHEDULES**

**CONWAY WWT
SLUDGE DEWATERING SYSTEM
GRAND STRAND WATER &
SEWER AUTHORITY**

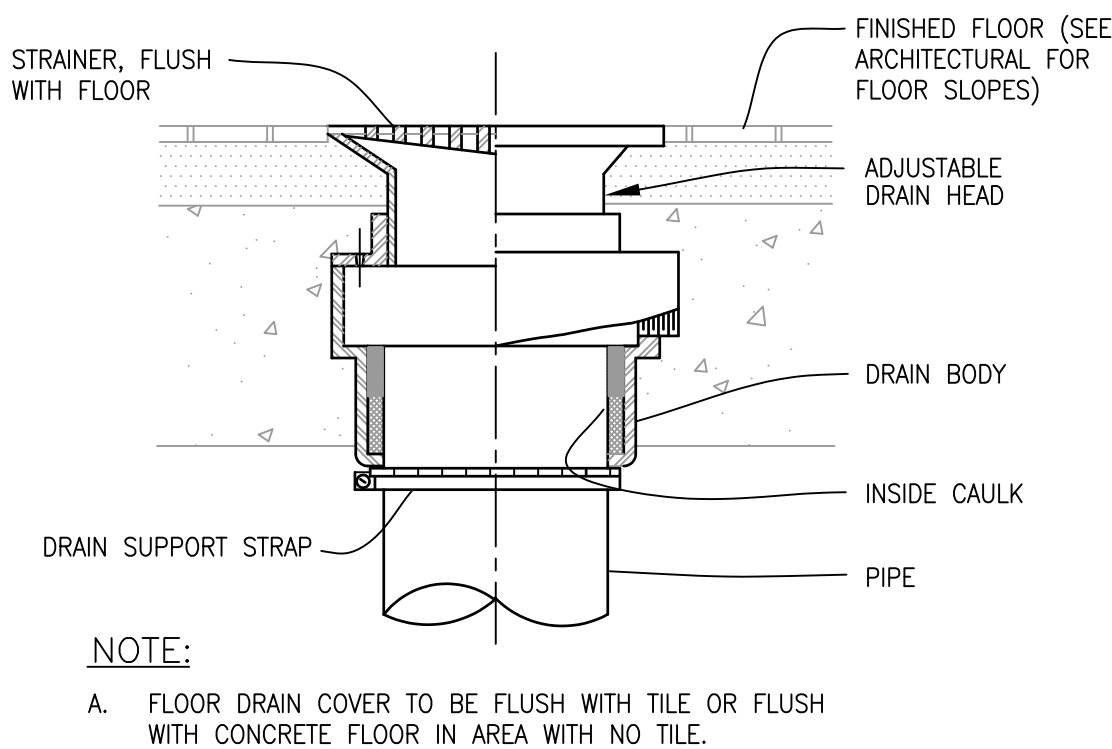
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Checked: MDB
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Sheet No.:
P-1
Of: 1 Version: 3



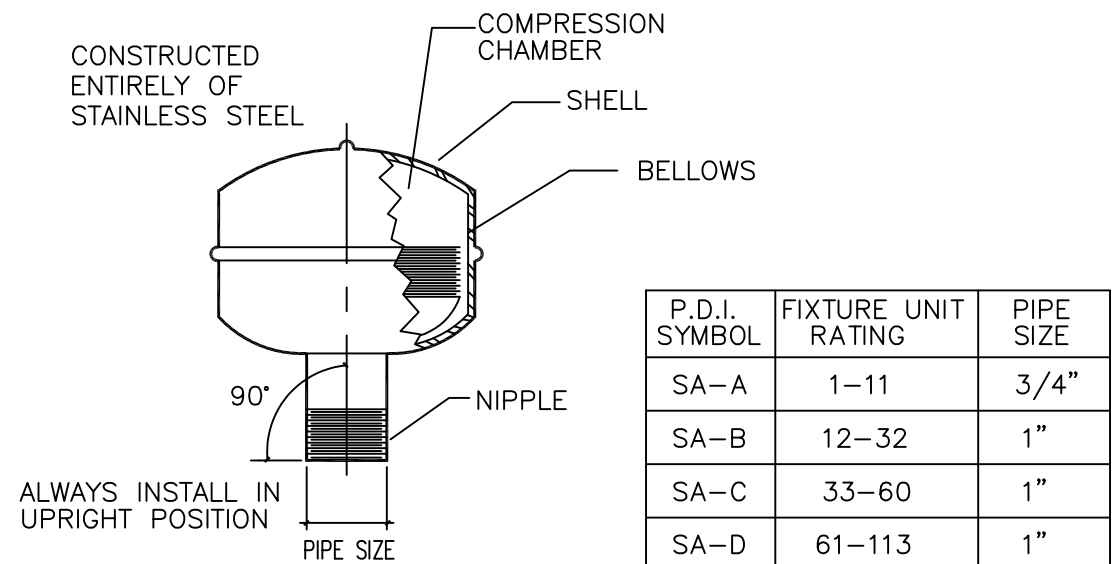
1 WATER HEATER DETAIL
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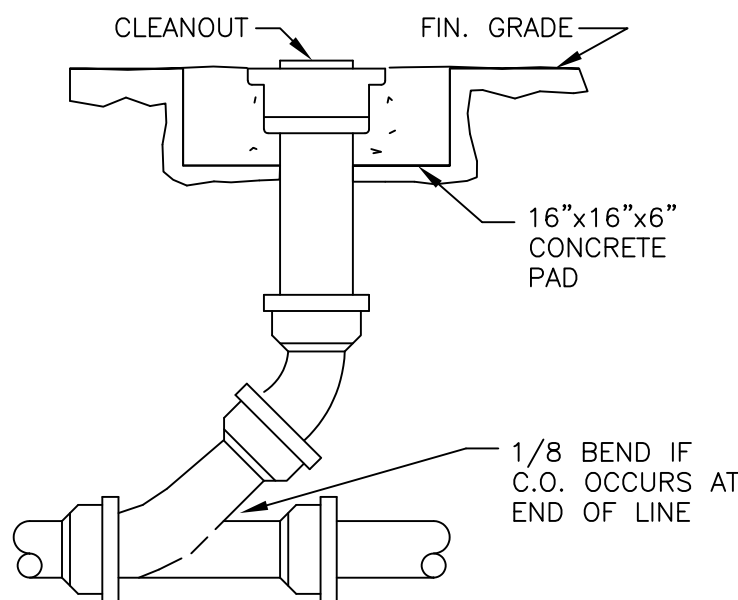
2 TRAP PRIMER DETAIL
P-1 SCALE: NTS



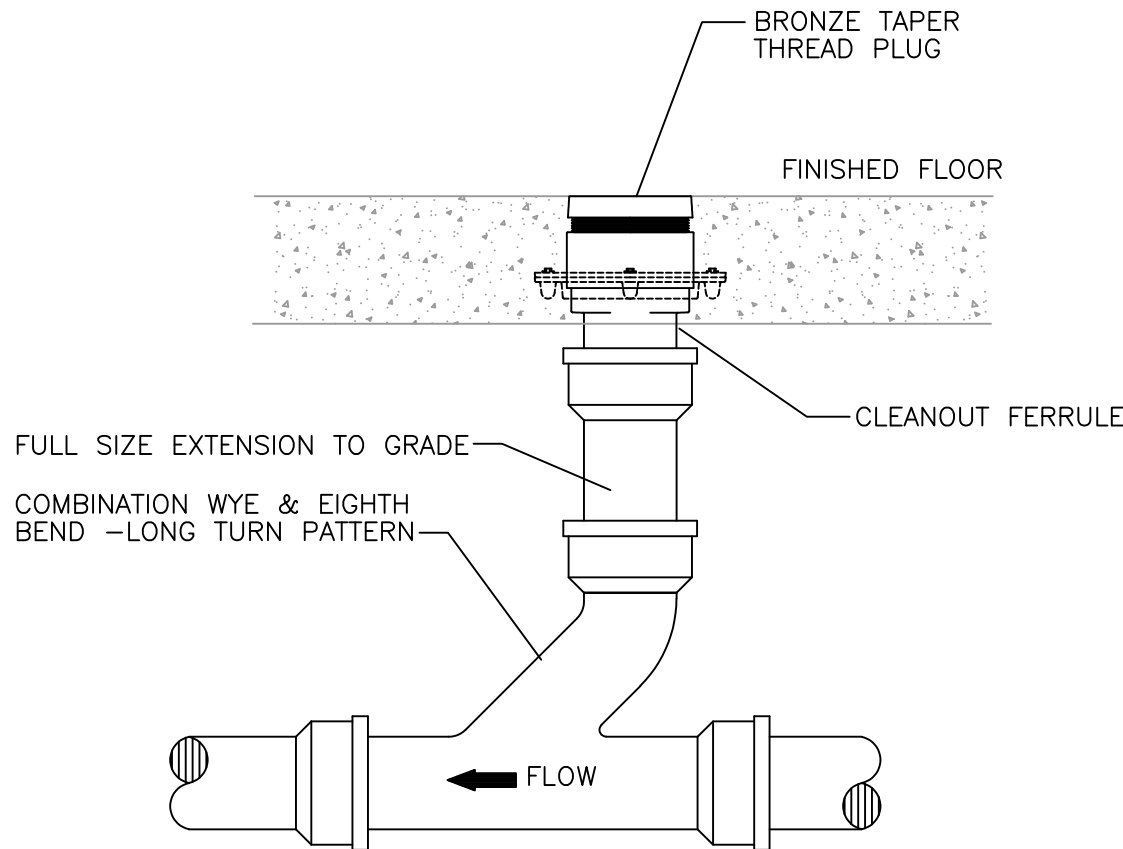
3 FLOOR DRAIN DETAIL
P-1 SCALE: NTS



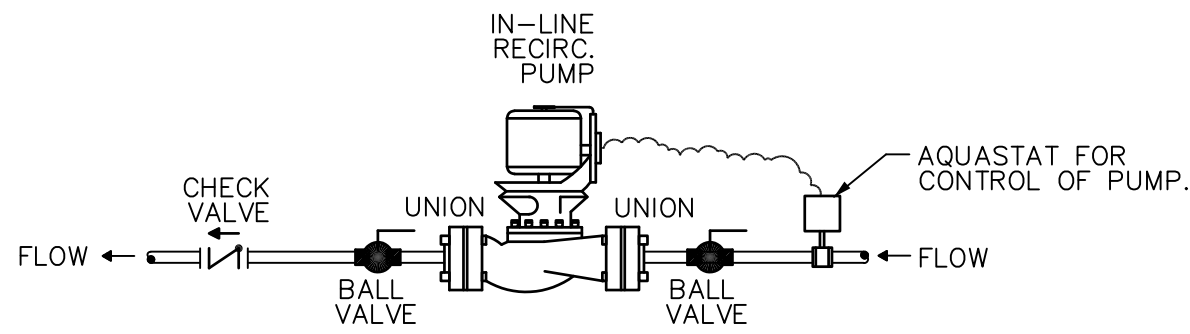
4 SHOCK ABSORBER DETAIL
P-1 SCALE: NTS



5 YARD CLEANOUT DETAIL
P-1 SCALE: NTS



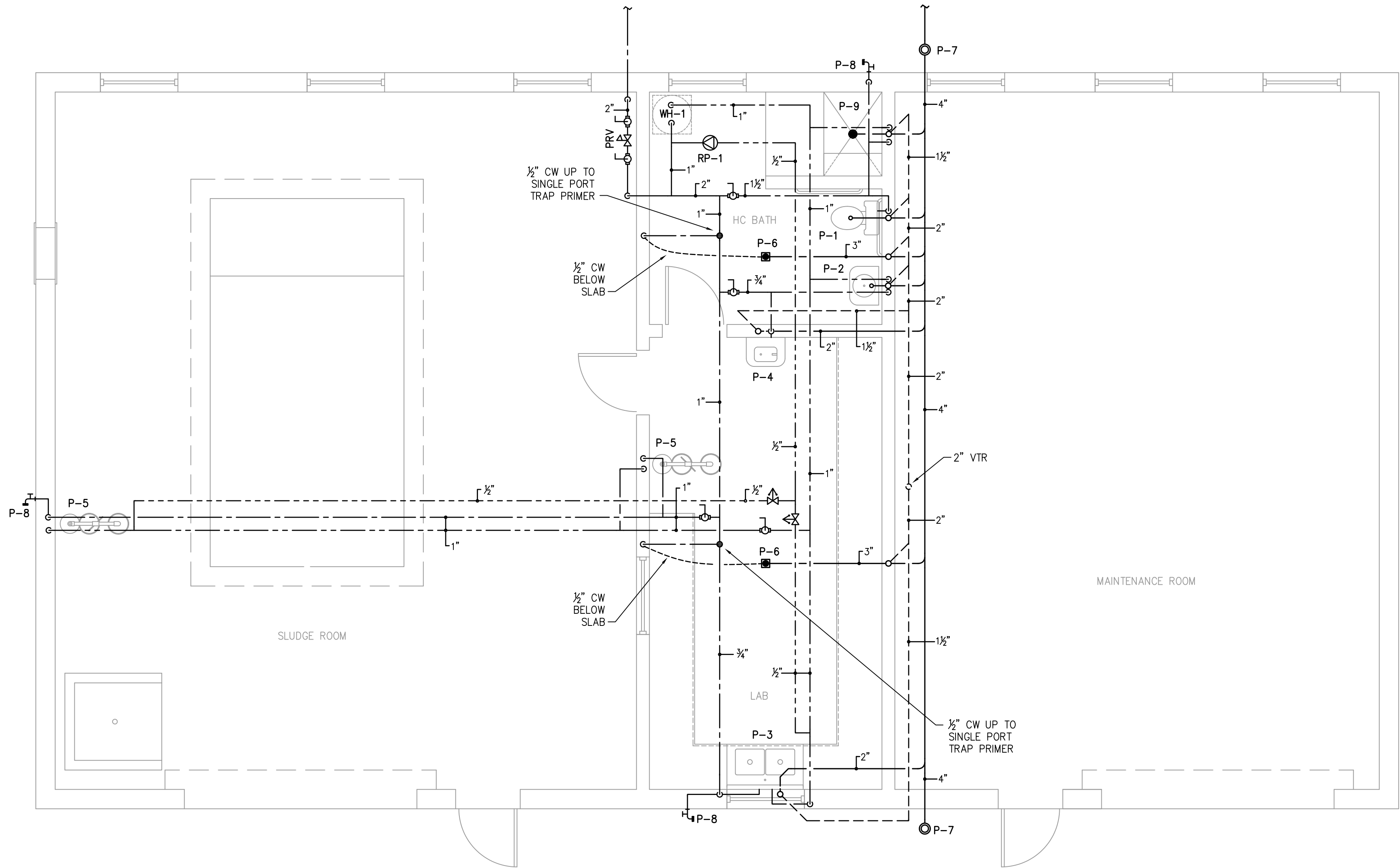
6 FLOOR CLEANOUT DETAIL
P-1 SCALE: NTS



7 CIRCULATING PUMP DETAIL
P-1 SCALE: NTS

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1 SLUDGE PRESS BUILDING PLUMBING PLAN
P-2 SCALE: 1/4" = 1'-0"

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