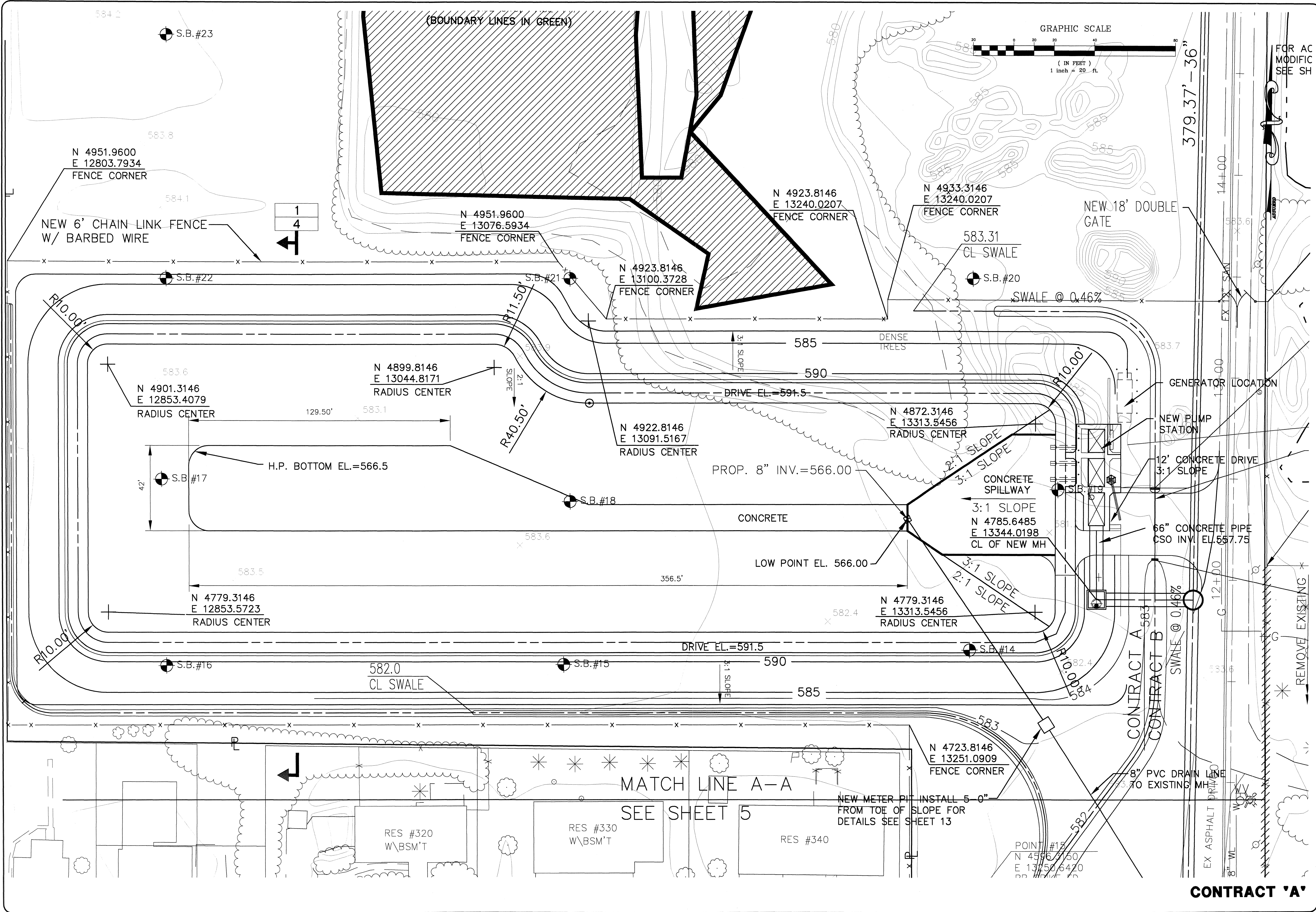


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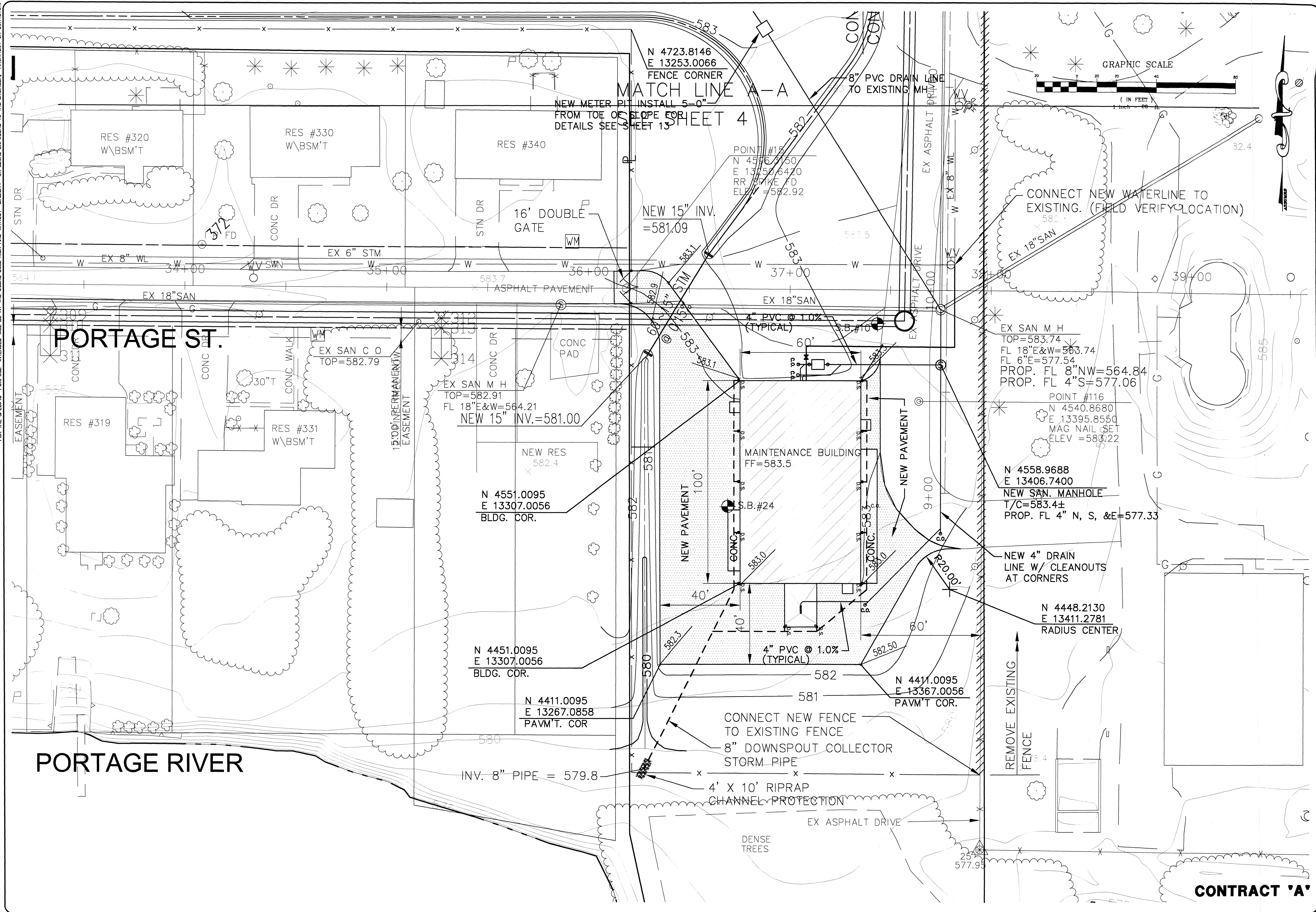
**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**LAGOON
SITE PLAN**

DRAWN BY: RAO
CHECKED BY: TES
REVISION:

4
OF
JOB NUMBER
1590-120

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**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE
BUILDING
SITE PLAN**

NO.	DATE	BY	CHKD.	REV.
1	05/11/2011	RAO	YES	
2	05/11/2011	RAO	YES	
3	05/11/2011	RAO	YES	
4	05/11/2011	RAO	YES	
5	05/11/2011	RAO	YES	
6	05/11/2011	RAO	YES	
7	05/11/2011	RAO	YES	
8	05/11/2011	RAO	YES	
9	05/11/2011	RAO	YES	
10	05/11/2011	RAO	YES	

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OF
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CONTRACT 'A'

VARIES FROM 14' TO 26' - SEE PLAN

4" SLOPE TO MATCH EXISTING

4" ROAD

10"

ITEM 204 - SUBGRADE COMPACTION

ITEM 304 - 6" AGGREGATE BASE

ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22

ITEM 448 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22

ITEM 448 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22

ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (0.04 GAL. PER SQ. YD.)

NOT TO SCALE



(IN FEET)	
1 inch = 20	ft

WATER ST(S. R. 163

CSO IMPROVEMENTS CSO BASIN AND PUMP STATION VILLAGE OF OAK HARBOR, OHIO

DRIVEWAY IMPROVEMENT PLAN

<u>DRAWN BY</u>	<u>CHECKED BY</u>
RAO	TES
<u>REASON</u>	

6
— OF —

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CONTRACT 'A'

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FOUNDATION PLAN - PUMP STATION

CONTRACT A

SCALE 1/4" = 1'-0"

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— OF —
32
JOB NUMBER
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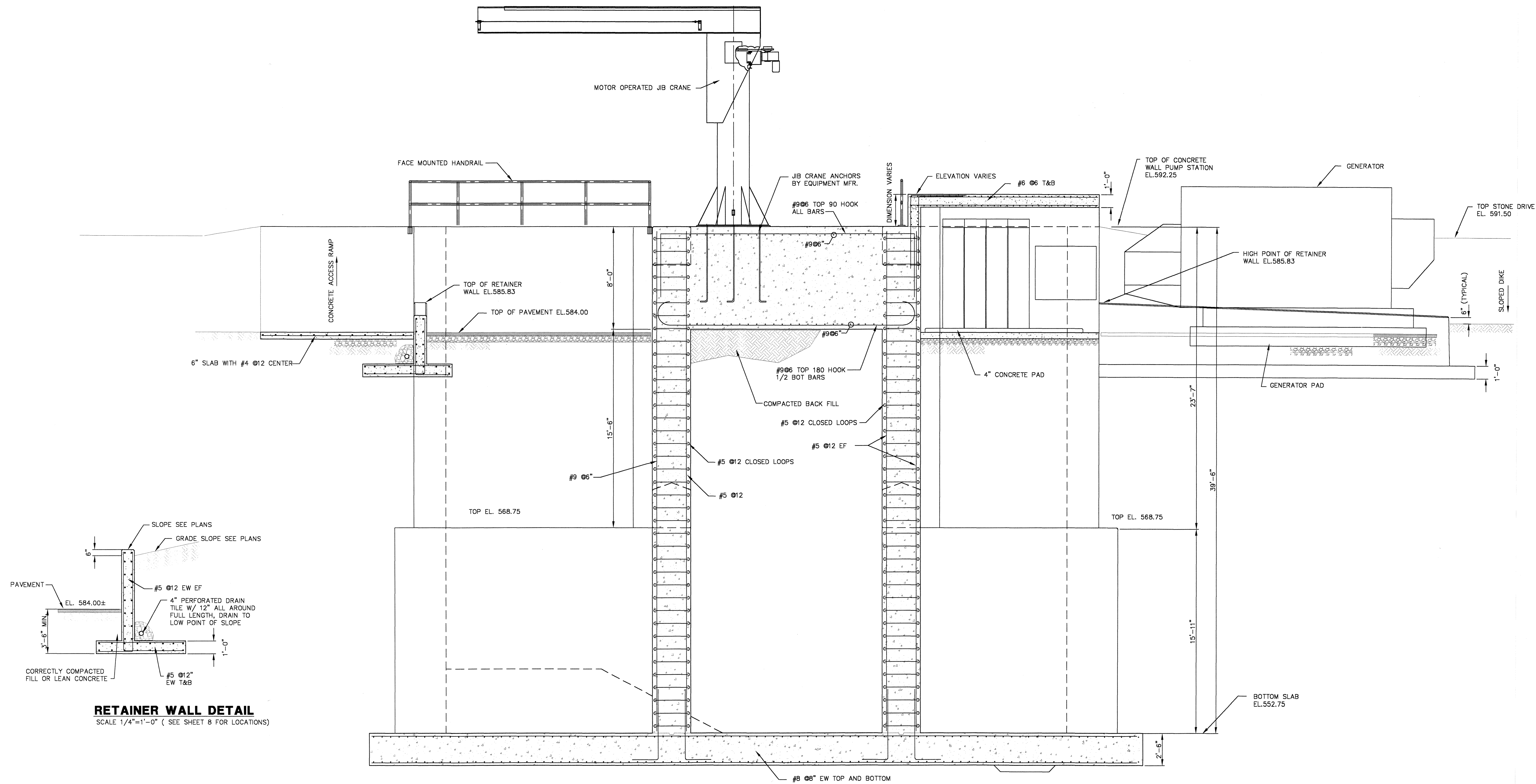
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RETAINER WALL DETAIL
SCALE 1/4"=1'-0" (SEE SHEET 8 FOR LOCATIONS)

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

CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO

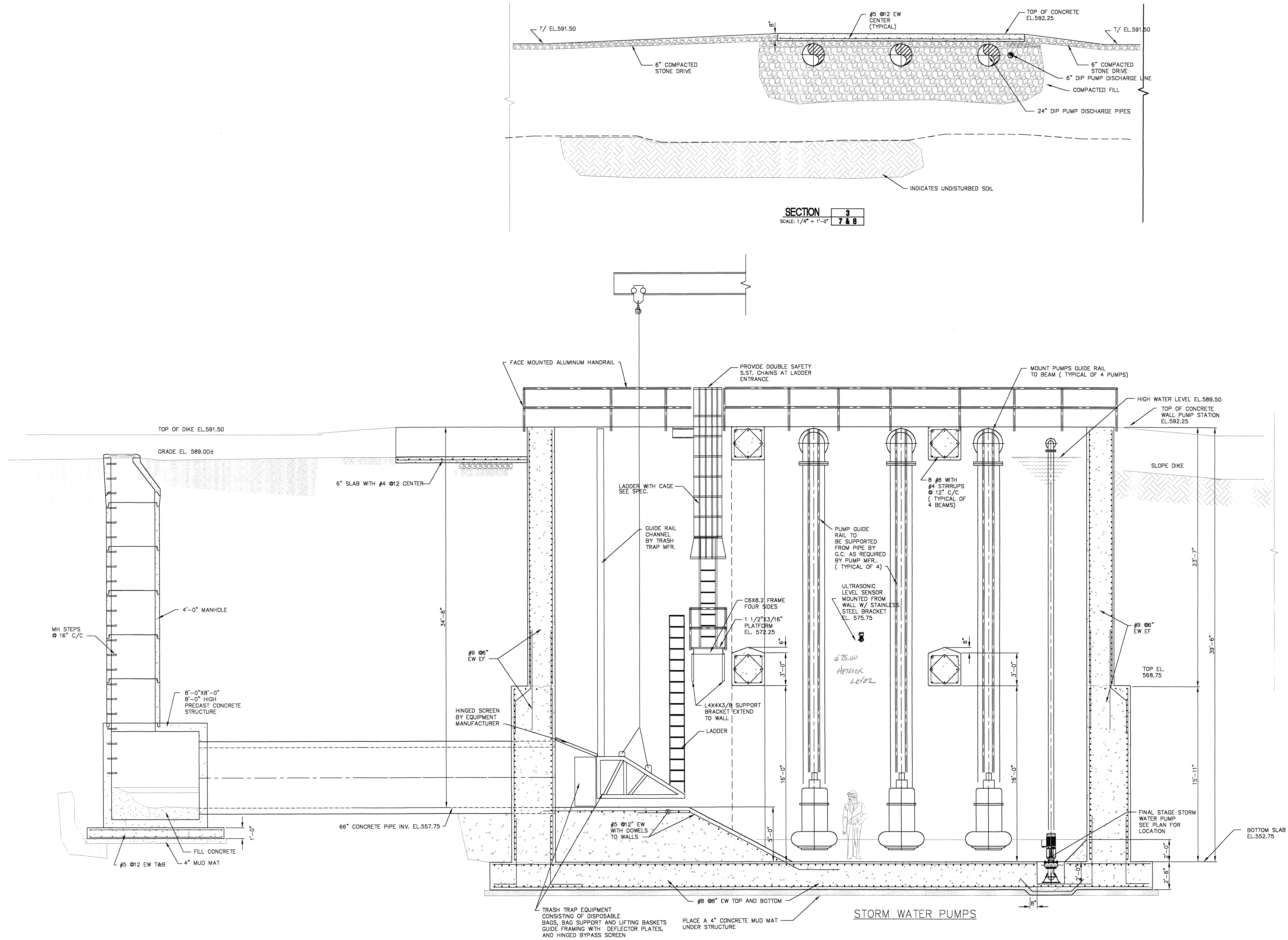
SECTION 1
AND DETAIL

REVISION	CHECKED BY	DATE

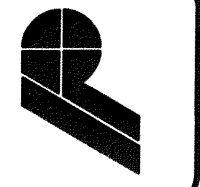
9
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32
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CONTRACT A



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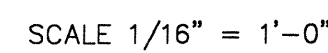
**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

SECTION 2 AND 3

DRAWN BY: W.M.V.
CHECKED BY: S.R.W.
REVISION

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OF
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JOB NUMBER
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TOP OF DIKE EL. 591.50

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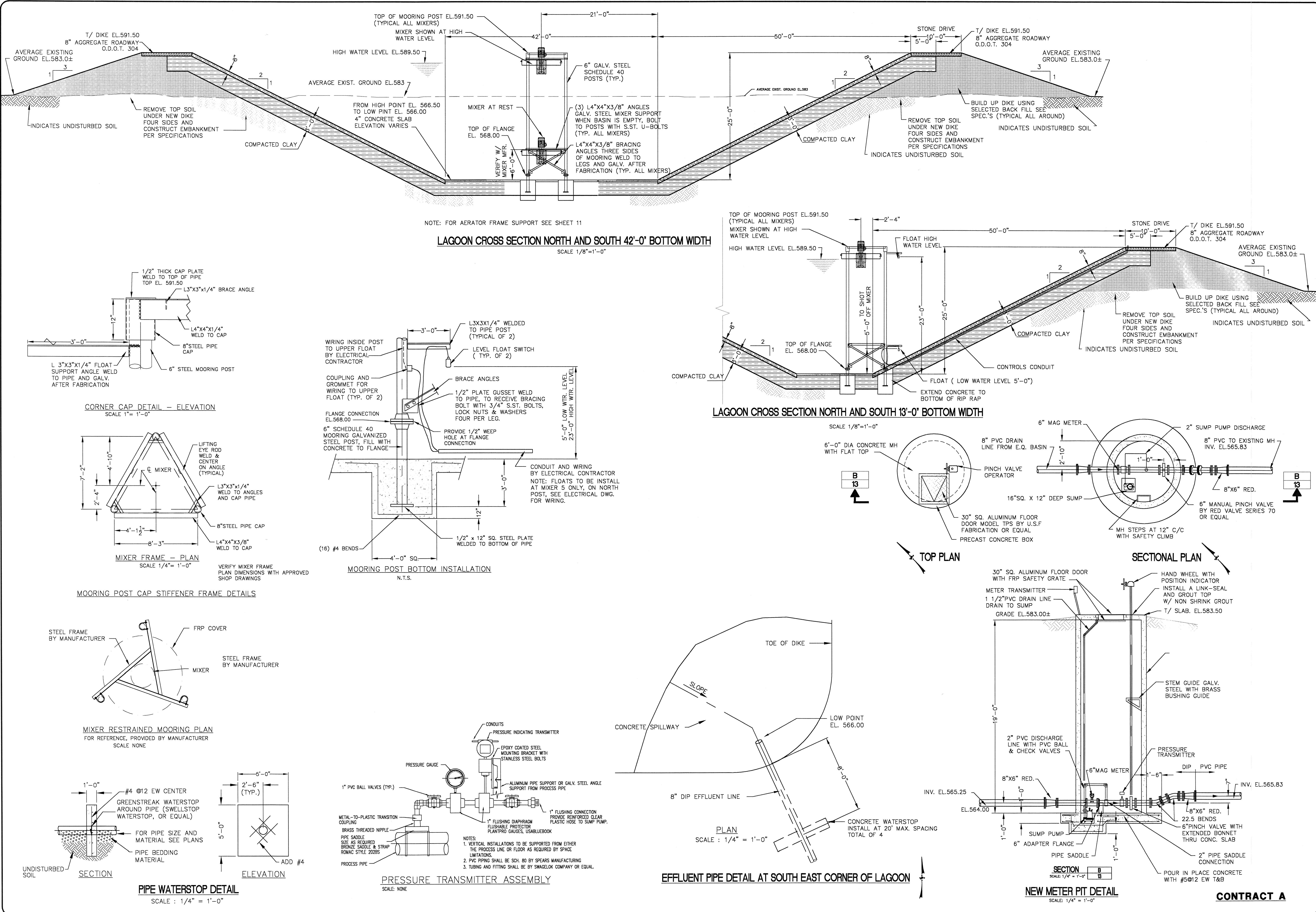
12
— OF —
32
JOB NUMBER
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CSO IMPROVEMENTS

R DESIGN GROUP, INC.
ENGINEERS PLANNERS
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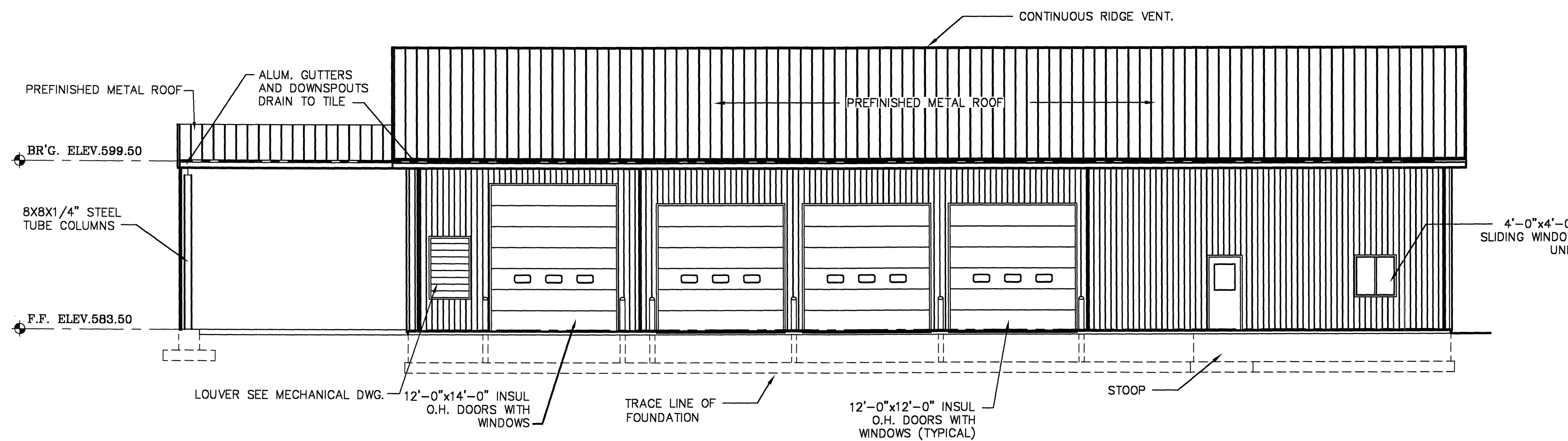
CSO IMPROVEMENTS
EQ BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO

EQ BASIN
SECTIONS AND
DETAILS

DRAWN BY: **W.M.V.**
CHECKED BY: **S.R.W.**
REVISION:

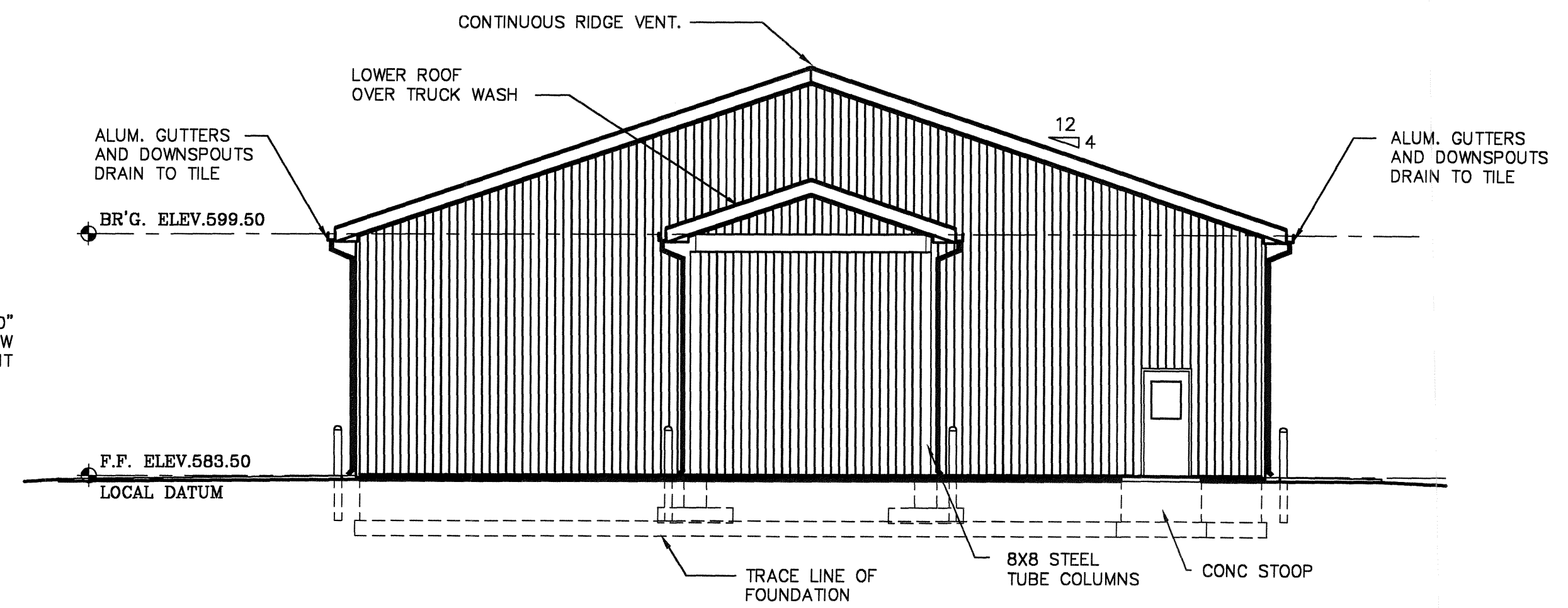
13
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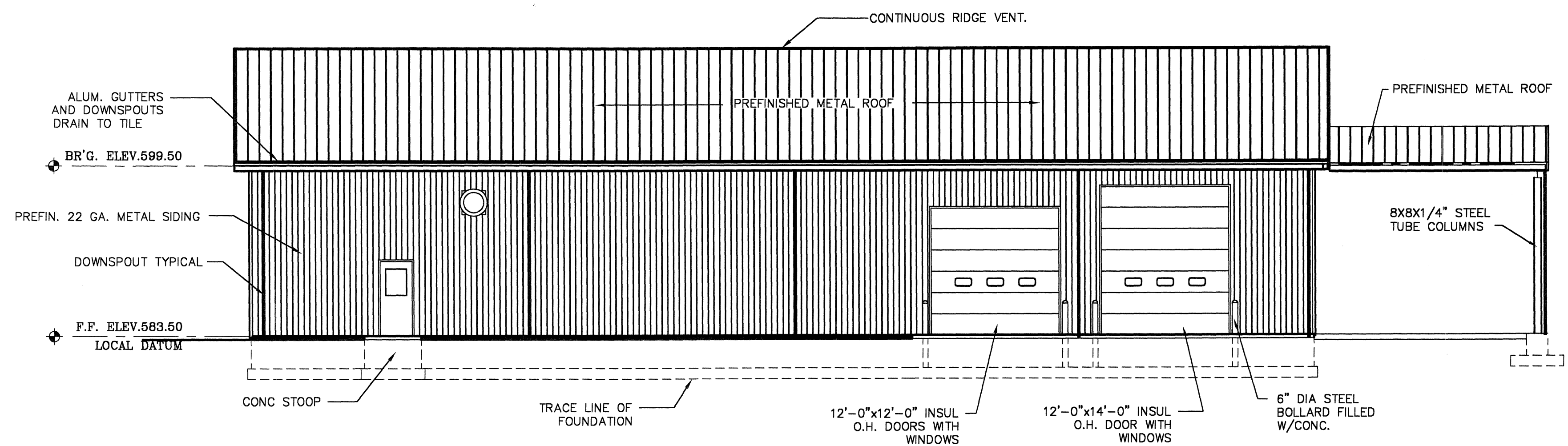
EAST ELEVATION

SCALE 1/8" = 1'-0"



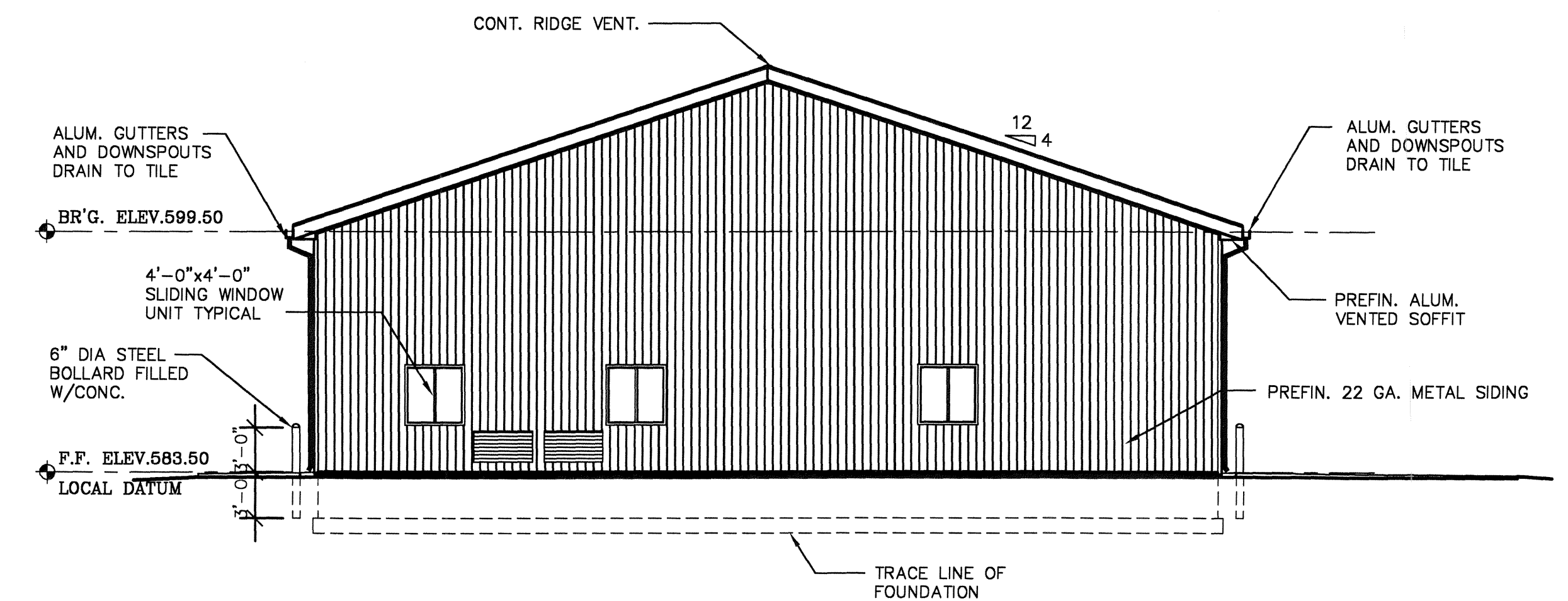
SOUTH ELEVATION

SCALE 1/8" = 1'-0"



WEST ELEVATION

SCALE 1/8" = 1'-0"



NORTH ELEVATION

SCALE 1/8" = 1'-0"

CONTRACT A



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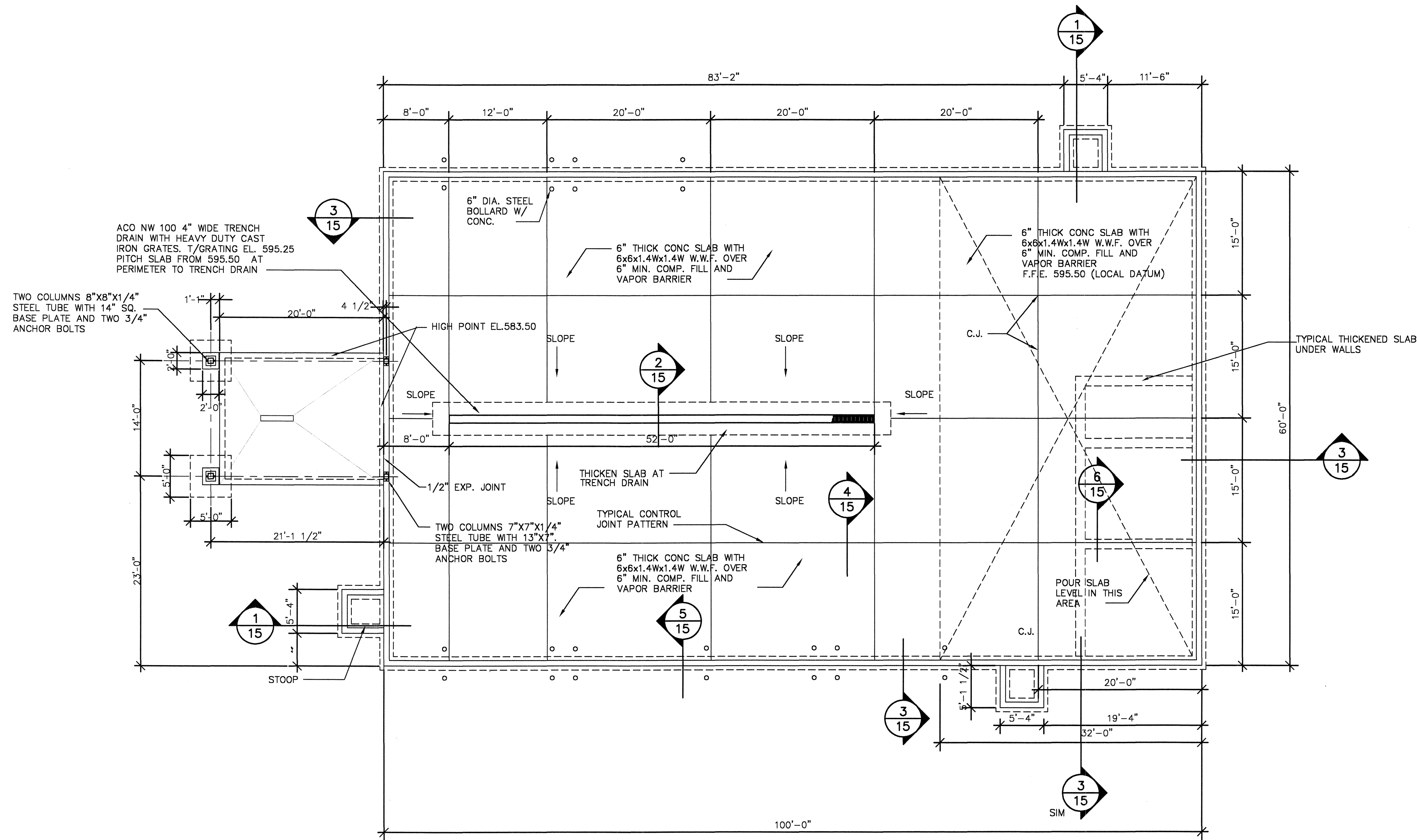
**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**MAINTENANCE BLDG.
EXTERIOR
ELEVATIONS**

REVISION

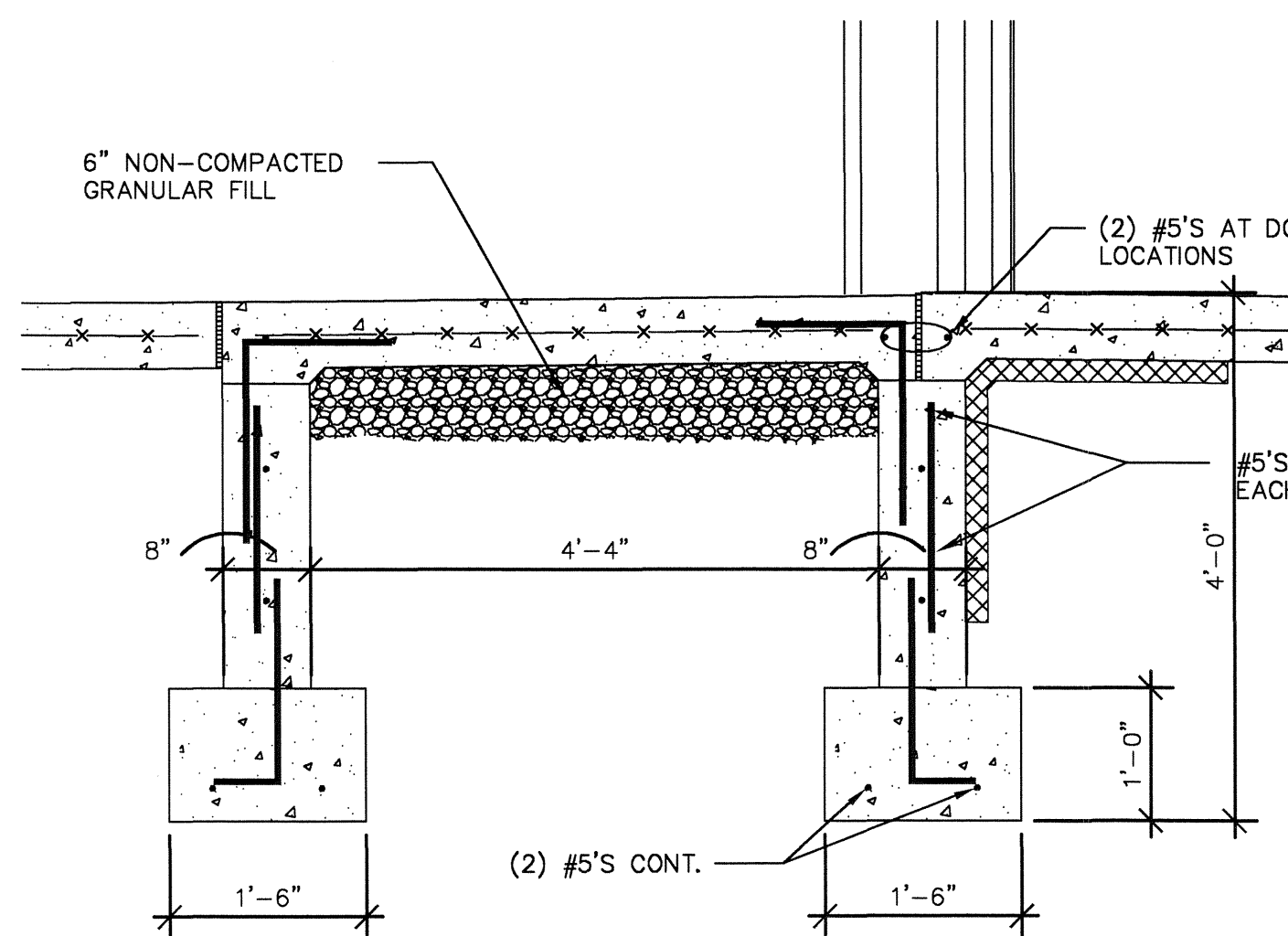
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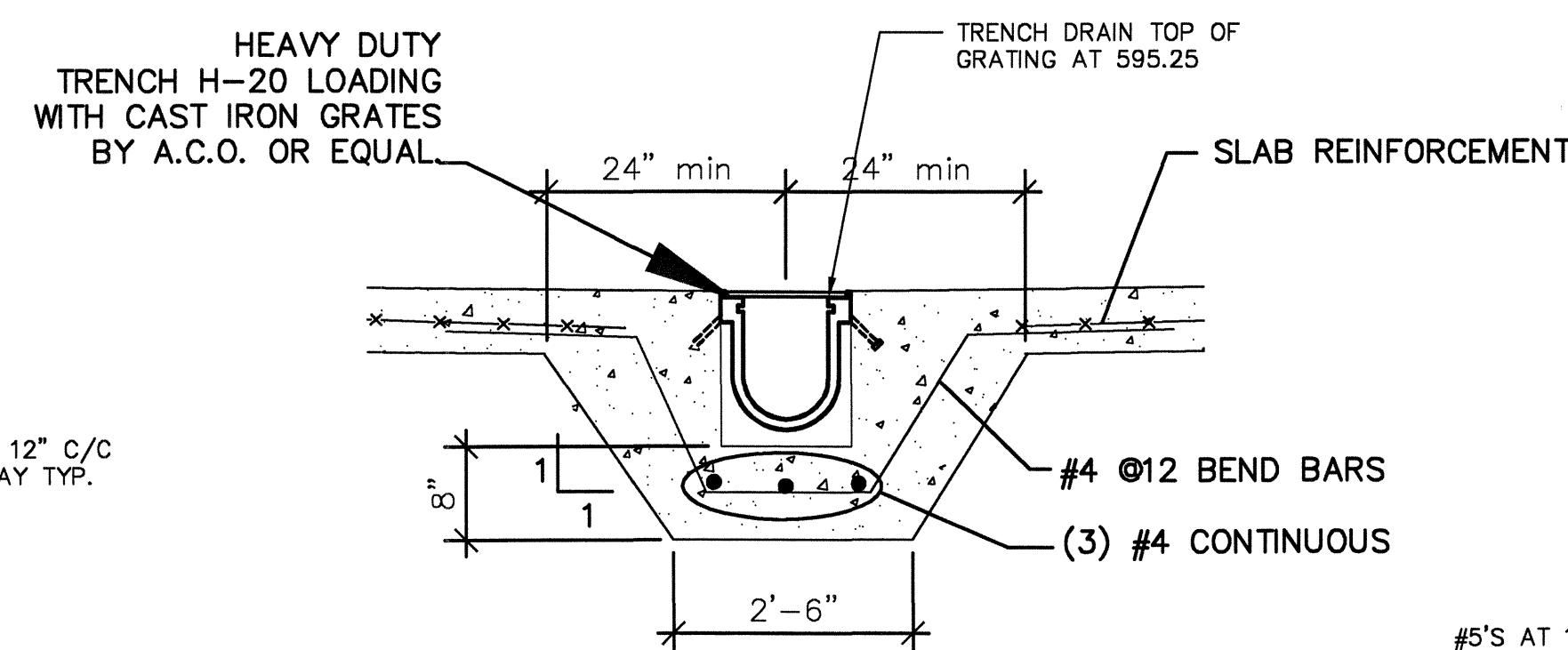
FOUNDATION PLANS

SCALE 1/8" = 1'-0"



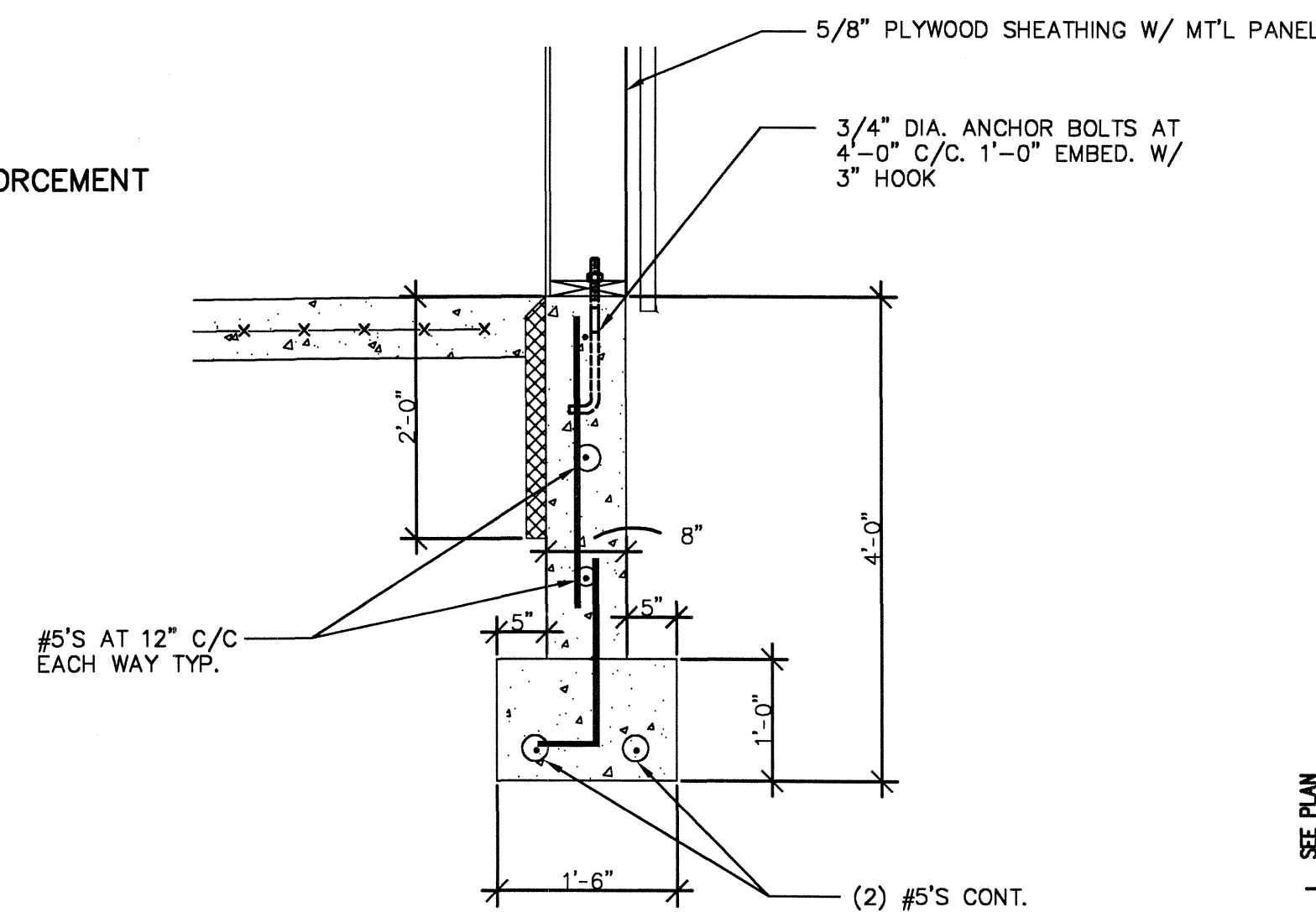
STOOP SECTION

SCALE 3/4" = 1'-0"



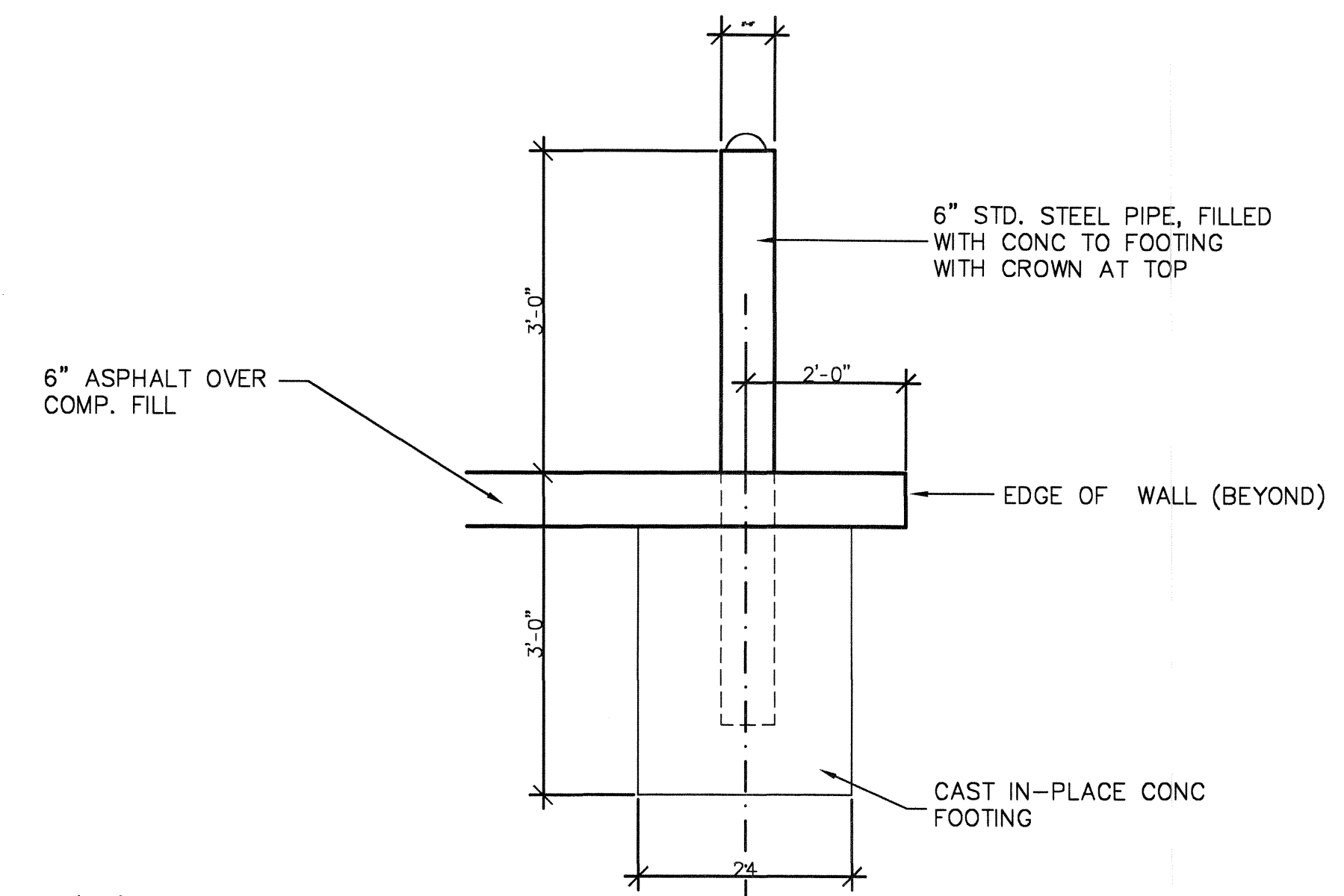
TRENCH DRAIN SECTION

SCALE 3/4" = 1'-0"



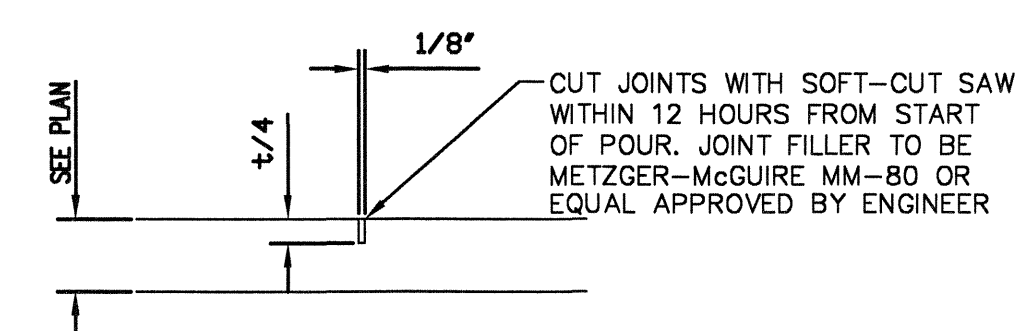
FOUNDATION SECTION

SCALE 3/4" = 1'-0"



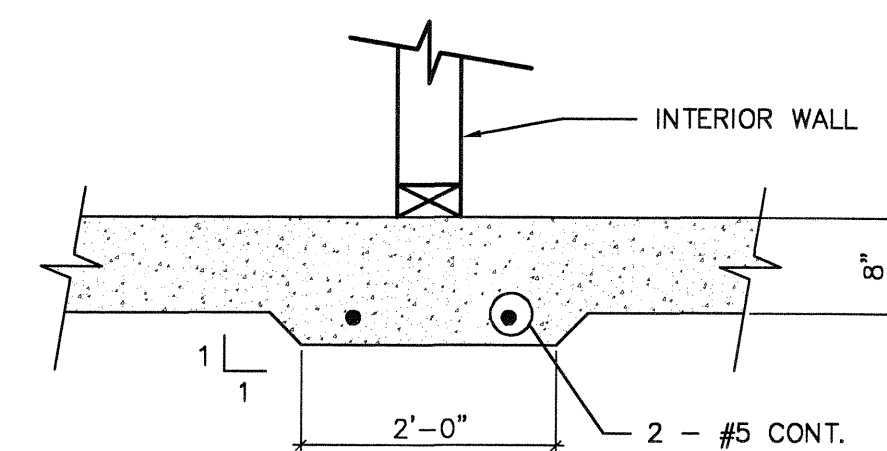
TYPICAL BOLLARD

NTS



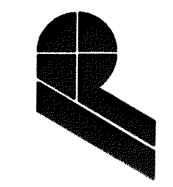
TYPICAL CONTROL JOINT

NTS



THICKENED FLOOR SLAB DETAIL

NTS



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VILLAGE OF OAK HARBOR, OHIO**

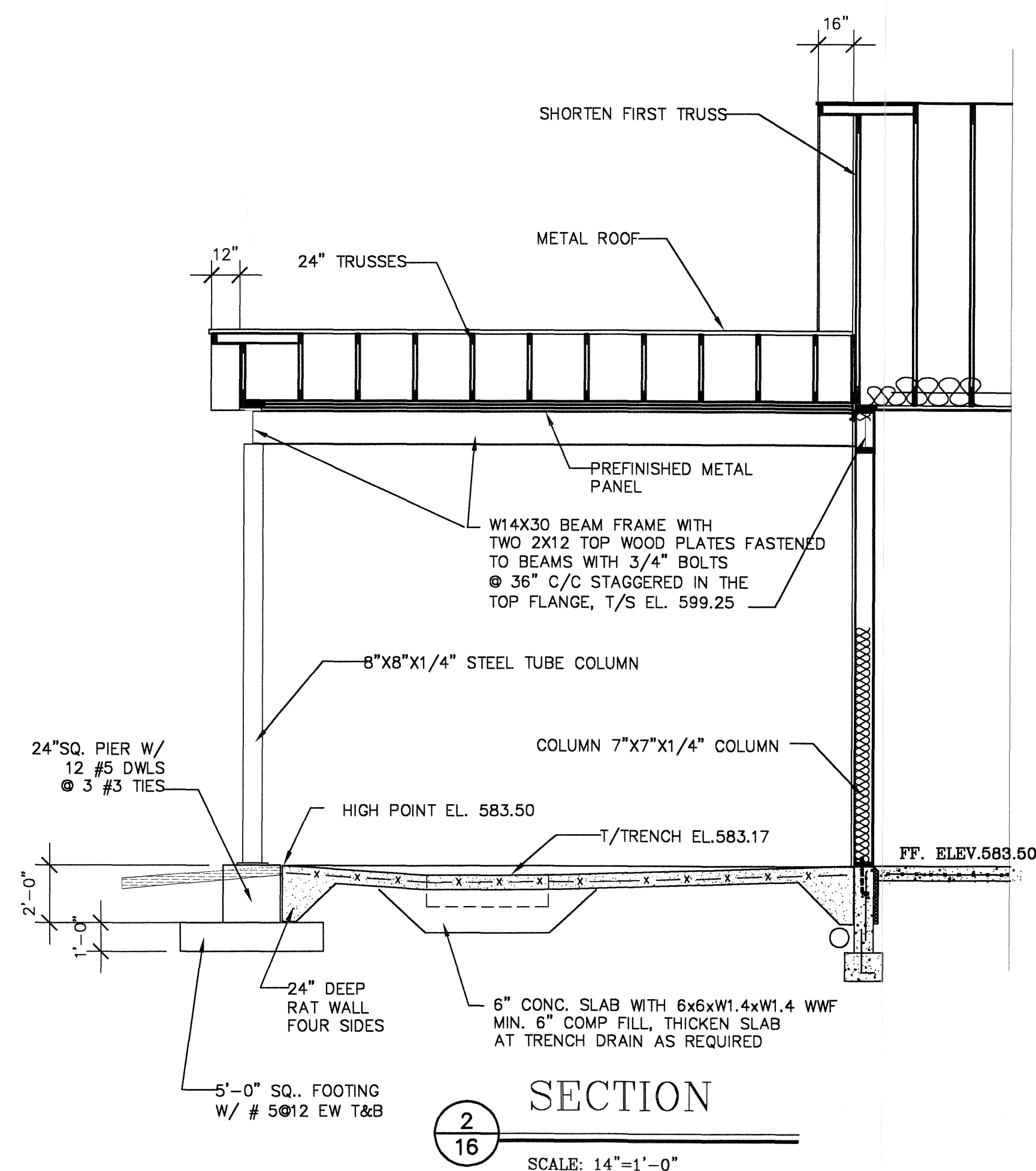
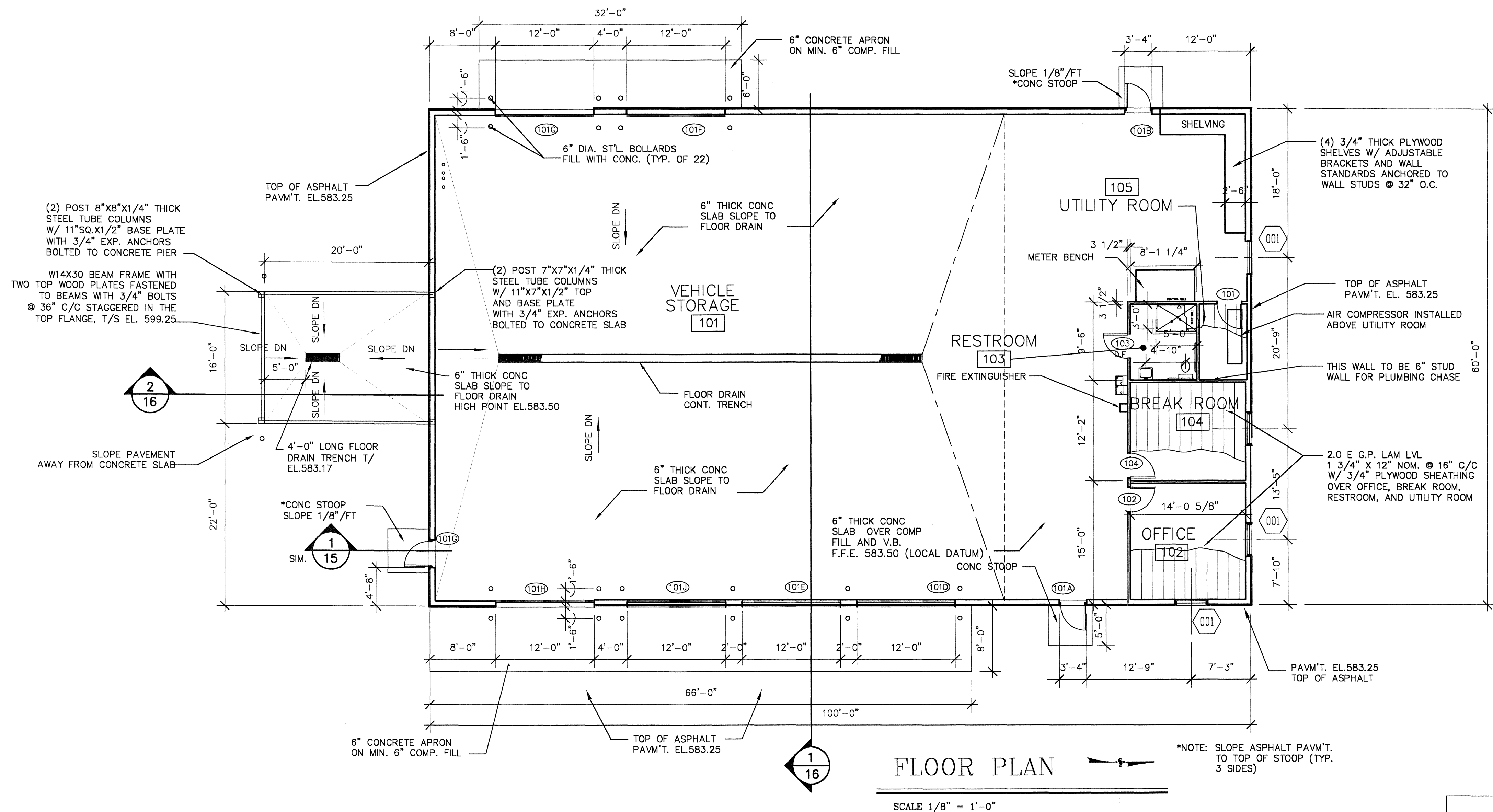
**MAINTENANCE BLDG.
PLAN, SECTIONS
AND DETAILS**

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W.M.V.	SO
REVISION	

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JOB NUMBER
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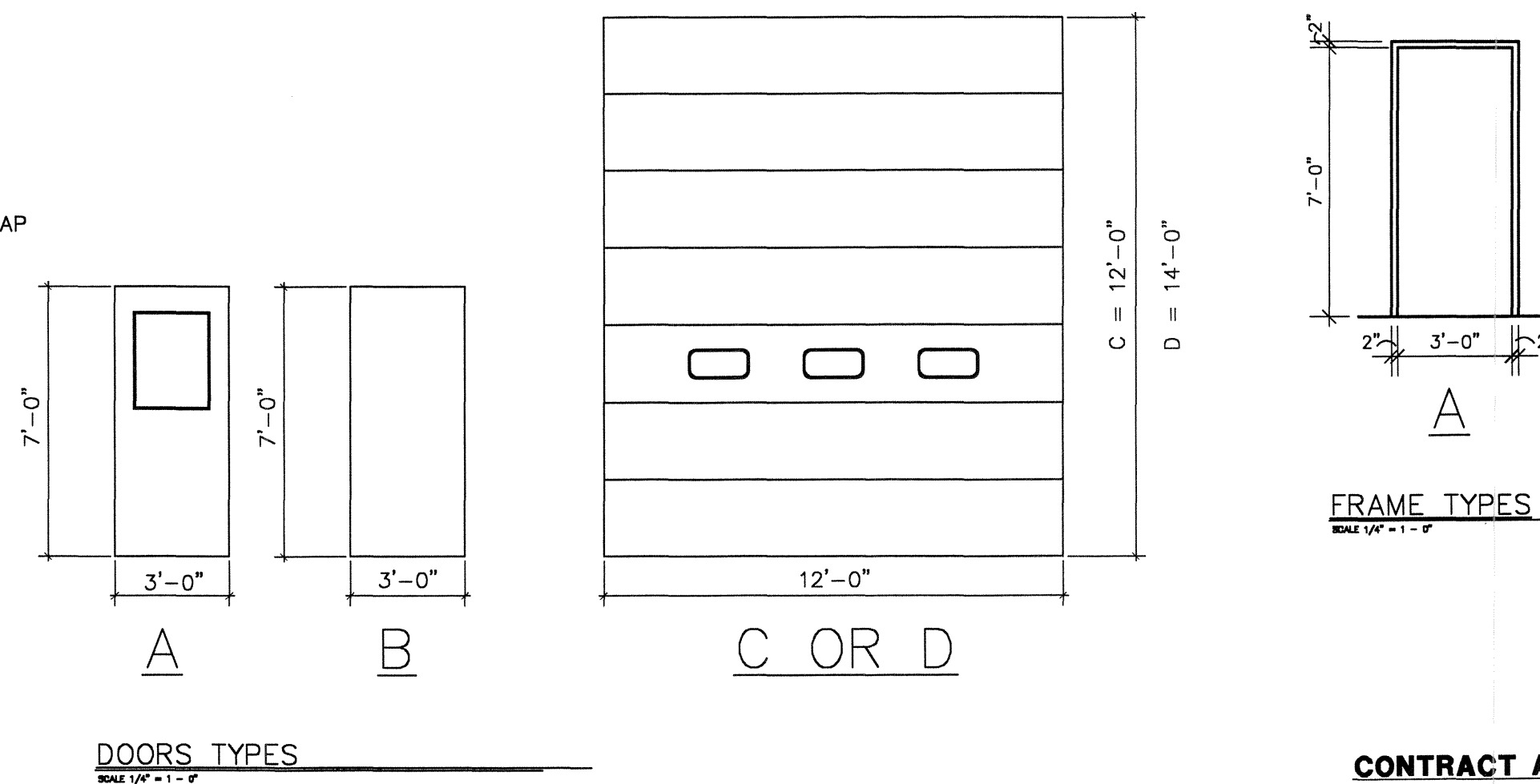
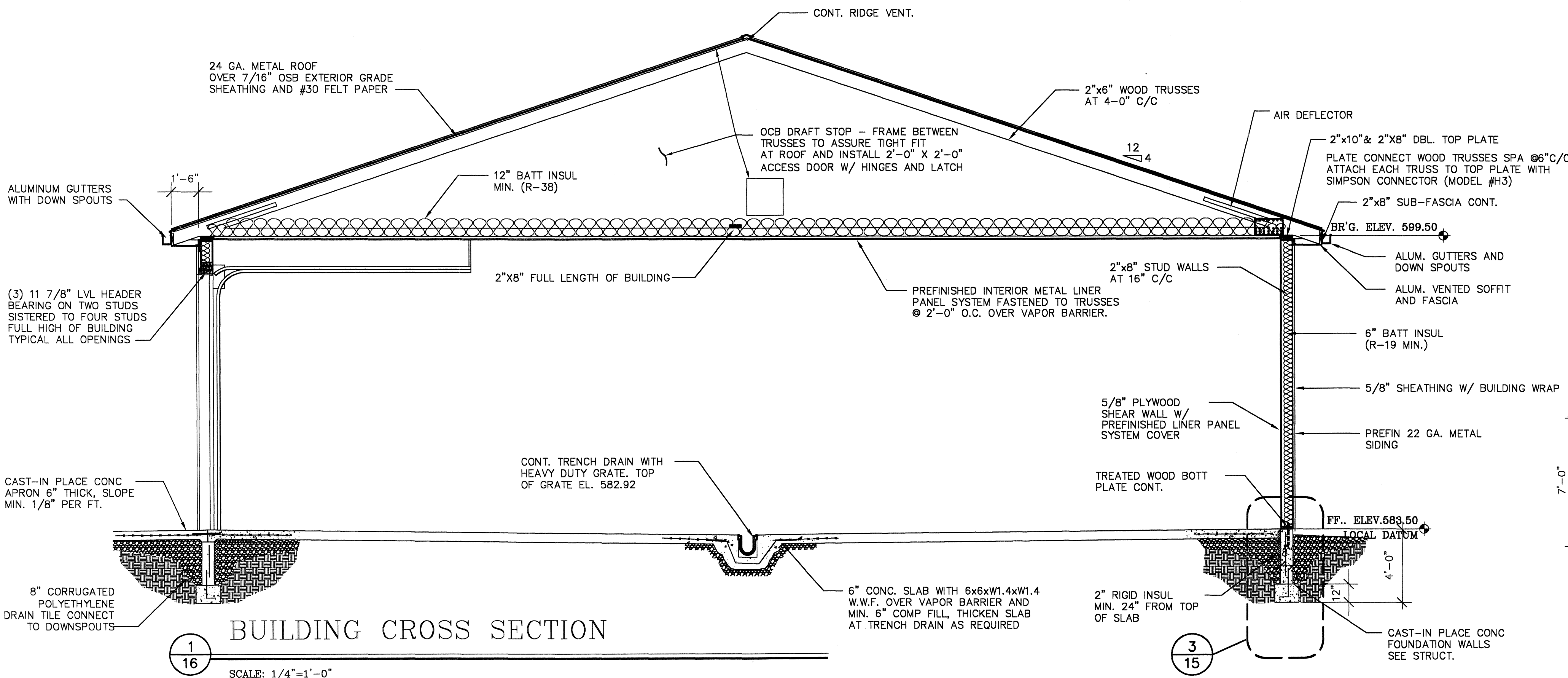
CONTRACT A

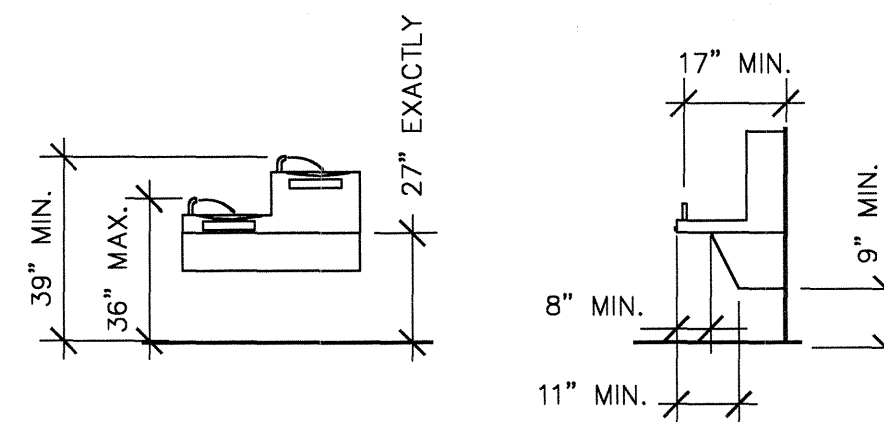
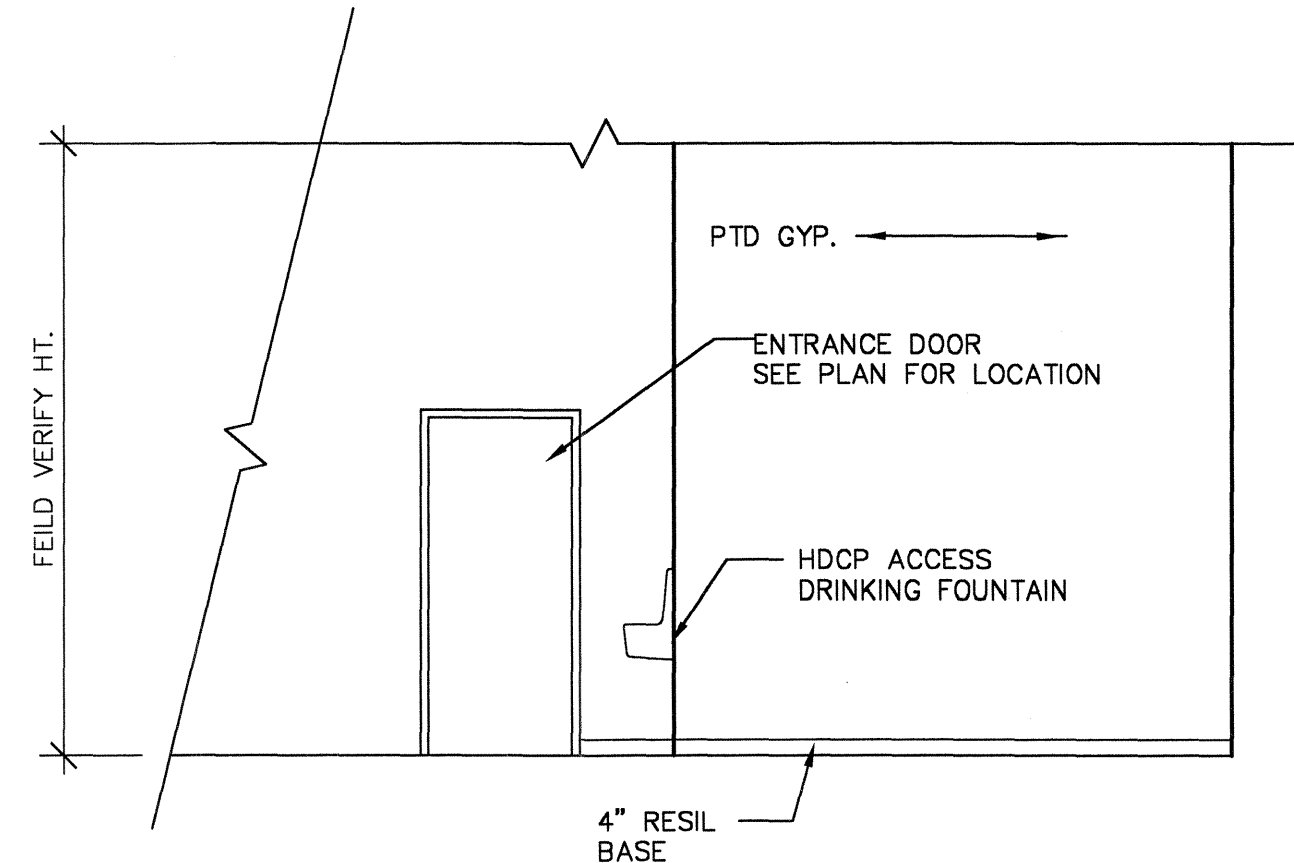
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ROOM FINISH SCHEDULE							
NUMBER	NAME	FLOOR	BASE	WALLS	CLG FIN	CLG HG	NOTES
101	VEHICLE STORAGE	CONC.	-	PREFIN-PANELS	PREFIN PAN	16'-0"	SEALED CONC. FLOOR
102	OFFICE	VCT	4" RESIL	PTD-GYP	PTD GYP	8'-0"	
103	RESTROOM	VCT	6" RESIL	PTD-GYP	PTD GYP	8'-0"	
104	BREAK ROOM	VCT	6" RESIL	PTD-GYP	PTD GYP	8'-0"	
105	UTILITY ROOM	VCT	6" RESIL	PTD-GYP	PTD GYP	8'-0"	

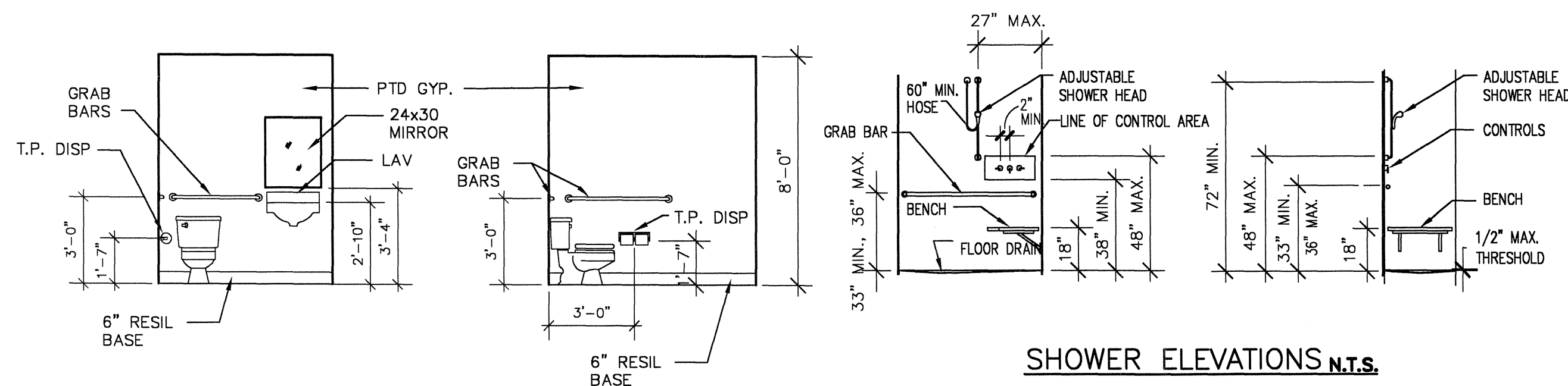
DOOR SCHEDULE													
NUMBER	WIDTH	HEIGHT	THICK	TYPE	MATL	FIN	RATE	FR. TYPE	FFIN	FMATL	HDWR	HEAD	JAMB
101	3'-0"	7'-0"	1 3/4"	B	H.M.	PTD		A	PAINT	H.M.	2	-	-
101A	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD		A	PAINT	H.M.	1	-	-
101B	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD		A	PAINT	H.M.	1	-	-
101C	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD		A	PAINT	H.M.	1	-	-
101D	12'-0"	12'-0"	-	C	METAL	PREFIN		-	-	-	4	-	-
101E	12'-0"	12'-0"	-	C	METAL	PREFIN		-	-	-	4	-	-
101F	12'-0"	12'-0"	-	C	METAL	PREFIN		-	-	-	4	-	-
101G	12'-0"	14'-0"	-	A	METAL	PREFIN		-	-	-	4	-	-
101H	12'-0"	14'-0"	-	D	METAL	PREFIN		-	-	-	4	-	-
101J	12'-0"	12'-0"	-	D	METAL	PREFIN		-	-	-	4	-	-
102	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD		A	PAINT	H.M.	2	-	-
103	3'-0"	7'-0"	1 3/4"	B	H.M.	PTD		A	PAINT	H.M.	2	-	-
104	3'-0"	7'-0"	1 3/4"	A	H.M.	PTD		A	PAINT	H.M.	3	-	-





NOTE: IF 27" DIM IS NOT MET,
THE DRINKING FOUNTAIN MUST BE RECESSED

DRINKING FOUNTAINS HIGH-LOW TYPE **N.T.S.**
SEE PLUMBING FOR SPECIFIED FIXTURE



NOTE:
DETAILS IN THIS DRAWING REPRESENT THE MINIMUM ACCESSIBILITY REQUIREMENTS IN THE PROJECT.

HANDICAP ACCESSIBILITY TYP. MOUNTING HEIGHTS/NOTES

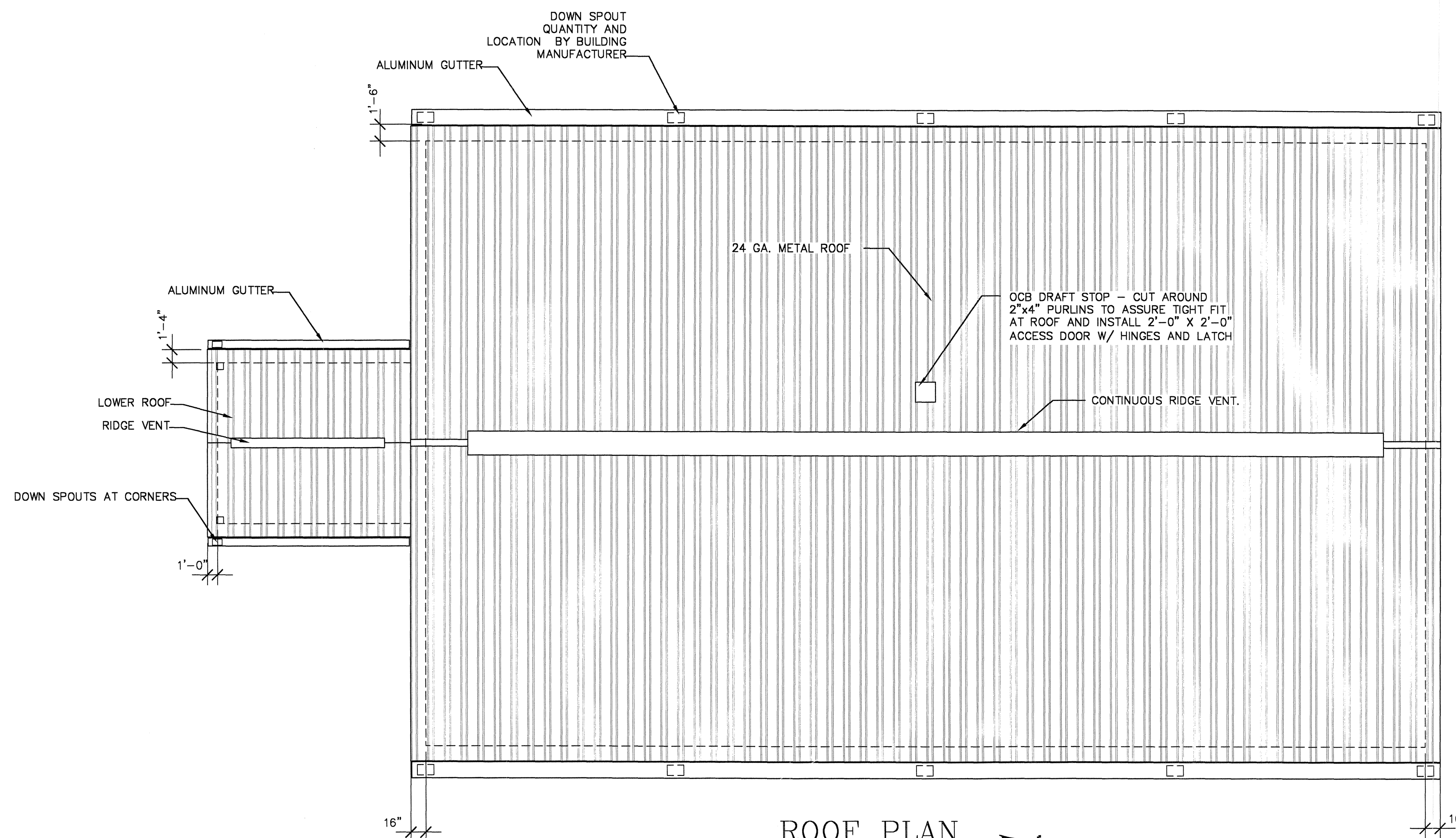
GRAB BAR (BEHIND TOILET)	2'-9" - 3'-0" TO CENTER (42" LENGTH MINIMUM - 12" FROM WALL)
GRAB BAR (BEHIND TOILET)	2'-9" - 3'-0" TO CENTER (36" LENGTH MINIMUM - 6" FROM WALL)
GRAB BAR (AT SHOWER)	2'-9" - 3'-0" TO CENTER
GRAB BAR (AT TUB)	2'-9" - 3'-0" TO CENTER
LAVATORY	2'-5" BELOW BOTTOM LIP (MIN.) 34" TO TOP EDGE (MAX.)
LAVATORY MIRROR	38" TO BOTTOM EDGE (MAX.)
PAPER TOWEL DISPENSER	DISPENSER AREA ABOVE 48"
PAPER TOWEL DISP. & DISPOSAL	40" MAX. TO HIGHEST OPERABLE PART
SOAP DISPENSER	40" TO HIGHEST OPERABLE PART
SOAP DISH	40" TO TOP
TOILET PAPER DISPENSER	3'-6" FROM BACK WALL - 19" TO CENTER OF DISPENSER (MIN.)
JANITOR SHELF	54" TO TOP
WATER COOLER	3'-0" TO BUBBLER

TYPICAL NOTES

- * GRAB BARS OVER 48" IN LENGTH TO HAVE CENTER SUPPORT
- * PROVIDE WOOD BLOCKING IN WALL BEHIND ALL WALL MTD. FIXTURES AND ACCESSORIES INSTALLED IN METAL STUD WALLS

REST ROOM ELEVATIONS

SCALE 1/4" = 1'-0'



ROOF PLAN

SCALE 1/8" = 1'-0"

GENERAL NOTES

- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE WHEN COMPLETED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE PROCEDURES FOR ERECTION AND CONSTRUCTION SEQUENCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING AND ITS OCCUPANTS THROUGHOUT CONSTRUCTION.
- SHOP DRAWINGS REVIEWED BY THE CONTRACTOR AND STAMPED INDICATING APPROVAL SHALL BE SUBMITTED TO THE A/E FOR REVIEW PRIOR TO FABRICATION DETAILING ALL NECESSARY COMPONENTS. REPRODUCTIONS OF THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED WITHOUT PRIOR PERMISSION OF A/E.

DESIGN CRITERIA

- ALL DESIGN LOADS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2005 OHIO BUILDING CODE.

FLOOR LIVE	400 psf	UNIFORM
ROOF LIVE	20 psf	MINIMUM
MEZZANINE DECK	125 psf	UNIFORM

ROOF SNOW UNIFORM AND DRIFTING BASED ON THE FOLLOWING:
 $P_f = 20$ psf
 $P_f = 22$ psf
 $C_e = 1.0$
 $I_s = 1.1$
 $C_t = 1.0$

WIND 90 mph BASIC WIND SPEED (3 SECOND GUST)
 $I_w = 1.15$
EXP C
 $G_{cp} = \pm 0.18$ (INTERNAL PRESSURE COEFFICIENT)

SEISMIC SEISMIC USE GROUP II
 $S_s = 15k$
 $S_1 = 5.8k$
SITE CLASS = D DESIGN CATEGORY B
 $I_e = 1.25$
 $S_{ms} = 0.189$
 $S_{m1} = 0.092$

BASIC SEISMIC-FORCE-RESISTING SYSTEM
BEARING WALL SYSTEM - LIGHT FRAMED WALLS SHEATHED WITH WOOD
 $R = 6$
BASE SHEAR = 0.035*W
ANALYSIS PROCEDURE
EQUIVALENT LATERAL FORCE PROCEDURE

SPECIAL LOADS CONSTRUCTION LOADS AND ERECTION STRESSES BY CONTRACTOR

FOUNDATIONS AND EARTHWORK

- FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL PROVIDING A SAFE BEARING CAPACITY OF 2,000 PSF (MIN). MATERIAL AT BEARING ELEVATIONS WHICH DOES NOT CONFORM WITH THESE REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E FOR REVIEW AND DETERMINATION.
- FILL UNDER BUILDING SLABS, FININGS, CURBS, WALKS, ETC. SHALL BE MADE WITH COURSE SAND, OR CRUSHED STONE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
- THE STABILITY AND POSITION OF WALLS SHALL BE MAINTAINED DURING BACKFILLING BY BRACING OF THE WALL OR PLACEMENT OF THE FILL SHALL BE SUCH THAT THE HEIGHT OF FILL ON EACH SIDE OF THE WALL IS APPROXIMATELY EQUAL.
- UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS FOUNDATIONS SHALL EXTEND BELOW LOCAL FROST DEPTHS.
- ALLOW FOR ADDITIONAL #6 DOWEL "1" TIE TO BOTTOM MAT OF REINFORCING AND EXTEND VERTICALLY UP MINIMUM 12" ABOVE TOP OF FOOTING FOR GROUNDING CONNECTION (SEE ELECTRICAL). VERIFY / COORDINATE LOCATION.

CONCRETE

- DESIGN, FURNISH, AND PLACE CONCRETE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE ACI.
- UNLESS NOTED OR SPECIFIED OTHERWISE, CONCRETE SHALL BE CONTROLLED STONE OR GRAVEL CONCRETE. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

ALL CONCRETE FOR MAINTENANCE BUILDING	4000 PSI
ALL CONCRETE WORK FOR PUMP PITS	5000 PSI
- EXTERIOR CONCRETE OR CONCRETE SUBJECT TO FREEZE-THAW CYCLING SHALL BE AIR-ENTRAINED (OR 110).
- DESIGN, DETAIL, FABRICATE, AND ERECT REINFORCING STEEL ACCORDING TO THE LATEST ACI AND CRSI SPECIFICATIONS FROM ASTM A-615, GRADE 60 MATERIAL.
- WALL AND FOOTING REINFORCING SHALL BE HOOKED AROUND CORNERS A MINIMUM OF 30 BAR DIAMETERS OR SEPARATE CORNER BARS SHALL BE PROVIDED.
- REINFORCING BARS SHALL LAP A MINIMUM OF 30 BAR DIAMETERS, BUT NOT LESS THAN 12". LAPS IN MASONRY CONSTRUCTION SHALL BE 48 BAR DIAMETERS.
- PROVIDE A 1" NOMINAL CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, COLUMNS, AND WALLS.
- AT ALL CONSTRUCTION JOINTS PROVIDE KEYWAYS 1 1/2" DEEP BY 1/3 THE WIDTH OF THE MEMBER (3 1/2" MIN).
- PROVIDE CONTROL JOINTS IN FLOOR SLABS AT 20'-0" CENTERS MAXIMUM EACH WAY UNLESS OTHERWISE NOTED ON DRAWINGS.
- PROVIDE THE FOLLOWING PROTECTION (COVER) OVER REINFORCING:

COLUMNS, BEAMS, AND ORDERS	1 1/2"
SLABS AND WALLS	3/4"
MEMBERS IN CONTACT WITH OR OVER WATER	2"
FORMED MEMBERS IN CONTACT WITH EARTH	2"
MEMBERS PLACED AGAINST EARTH	3"
- PROVIDE #3 HORIZONTAL DOWELS IN FLOOR SLABS AT ALL RE-ENTRANT CORNERS AND COLUMN LOCATIONS. DOWELS SHALL LAP 1'-0" MIN. PAST EACH POINT OF CROSSING AT COLUMNS AND EXTEND 1'-0" EACH WAY PAST EACH RE-ENTRANT CORNER.

MISCELLANEOUS METALS

- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE LOOSE ANGLE UNITS OVER ALL MASONRY OPENINGS AND RECESSES AS REQUIRED. UNITS NOT SCHEDULED ON DRAWINGS SHALL CONSIST OF A SINGLE ANGLE WITH A 1 1/2" VERTICAL LEGS FOR EACH FOUR INCHES OF WALL THICKNESS. ANGLES SHALL BE AS FOLLOWS:

MASONRY OPENING	ANGLE SIZE	BEARING (EACH END)
4'-0" (OR LESS)	3 1/2" x 3 1/2" x 1/4"	8"x8"
6'-0" - 8'-0"	4" x 4" x 1/4"	8"x8"
8'-0" - 10'-0"	5" x 5" x 1/4"	8"x8"
10'-0" - 12'-0"	6" x 6" x 1/4"	8"x8"
12'-0" - 14'-0"	7" x 7" x 1/4"	8"x8"
14'-0" - 16'-0"	8" x 8" x 1/4"	8"x8"
16'-0" - 18'-0"	9" x 9" x 1/4"	8"x8"
18'-0" - 20'-0"	10" x 10" x 1/4"	8"x8"
- ALUMINUM IN CONTACT WITH CONCRETE OR A DISSIMILAR METAL SHALL BE COATED WITH A BITUMASTIC PAINT.

STRUCTURAL STEEL

- DESIGN, DETAIL, FABRICATE, AND ERECT STEEL IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
- WIDE FLANGE SHAPES SHALL BE ASTM A992 (MINIMUM $F_y = 50,000$ psi); TUBING ASTM A500 GRADE B; AND PIPE ASTM A53 GRADE B. ALL OTHER SHAPES ASTM A50.
- ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF APPROVED PRIMER PAINT. PARTS INACCESSIBLE AFTER ERECTION SHALL RECEIVE TWO COATS.
- CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS OTHERWISE SHOWN.
- UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBER AS DETERMINED BY THE LOAD TABLES IN THE AISC MANUAL.
- BOLTED CONNECTIONS SHALL BE OF 3/4" DIA. A325, WITH A MINIMUM OF 2 BOLTS PER CONNECTION.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AISC AND AWS SPECIFICATIONS USING E70 ELECTRODES.
- BASE PLATES SHALL BE WELDED TO COLUMNS.
- ALL COLUMNS SHALL HAVE 3/4" NON SHRINK GROUT AND A 1/4" LEVELING PLATE BETWEEN THE BASE PLATE AND CONCRETE.
- ANCHOR BOLTS SHALL BE A307, 3/4" DIA. WITH A MINIMUM OF 8" PLUS A HOOK EMBEDDED IN THE CONCRETE UNLESS NOTED OTHERWISE.

CARPENTRY

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- LUMBER AND WOOD FRAMING SHALL NOT HAVE A MOISTURE CONTENT GREATER THAN 19% BY WEIGHT WHEN PLACED INTO THE CONSTRUCTION.
- LUMBER FOR FRAMING SHALL BE SPRUCE-PINE-FIR #2 OR BETTER.
- PRESERVATIVE OR FIRE RETARDANT TREATED LUMBER SHALL BE SOUTHERN PINE #2 OR BETTER. PRESERVATIVE TREATMENT (AND SHALL BE MINIMUM 0.14 RETENTION. POSTS AND OTHER MEMBERS BURIED IN CONCRETE OR SOIL SHALL BE 0.14 RETENTION. FASTENERS AND CONNECTORS SHALL BE STAINLESS STEEL OR APPROVED SUBSTITUTE.
- PROVIDE WOOD FRAMING AS SHOWN AND AS REQUIRED TO COMPLETE THE PROJECT.
 - STUDS SHALL BE OF SIZE AND SPACING AS SHOWN ON THE DRAWINGS, DOUBLED AROUND OPENINGS AND TRIPLED AT CORNERS.
 - PROVIDE PLATES TOP AND BOTTOM OF STUD WALLS (DOUBLE TOP PLATES). SPLICES IN TOP PLATES SHALL BE MADE OVER STUDS AND STAGGERED.
- JOIST, RAFTERS, AND OTHER FRAMING MEMBERS SHALL BE SECURELY ANCHORED TO THEIR SUPPORTING MEMBERS AND BLOCKED TO PREVENT ROTATION. PROVIDE GALVANIZED METAL CONNECTORS WHERE INDICATED.
- ALL HEADERS SHALL BE MULTIPLE 2 X 10's (1 FOR EACH NOMINAL 2" OF WALL), UNLESS OTHERWISE NOTED.
- ALL HEADERS SHALL BEAR ON MINIMUM 1 STUD, SISTERED TO 1 FULL HEIGHT STUD UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, ALL BEAMS BEARING ON WALLS SHALL BE SUPPORTED BY 1 STUD FOR EACH NOMINAL 2" OF BEAM, SISTERED TO 1 FULL HEIGHT STUD.

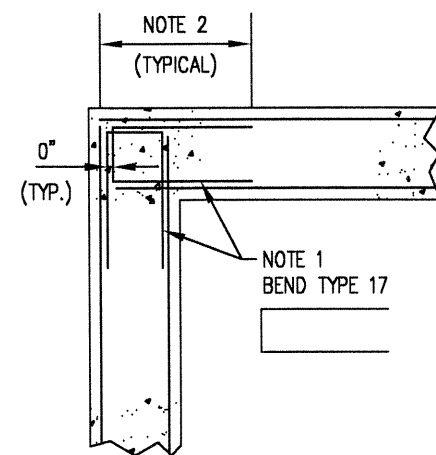
WOOD ROOF TRUSSES

- ROOF TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE LATEST TRUSS PLATE INSTITUTE SPECIFICATIONS.
- STRUCTURAL COMPUTATIONS AND DETAILS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE LOCALITY OF THE PROJECT SHALL BE SUBMITTED FOR EACH TRUSS CONFIGURATION.
- TRUSSES SHALL BE DESIGNED FOR 10 PSF DEAD LOAD AND 25 PSF LIVE LOAD ALL ON THE TOP CHORD, AND 1000 LB/IN LOAD ON THE BOTTOM CHORD, PLUS ANY ADDITIONAL LOADING SHOWN ON THE DRAWINGS. SNOW LOADS SHALL BE APPLIED ACCORDING TO THE APPLICABLE BUILDING CODE INCLUDING INCREASES DUE TO DRIFTING, SLIDE OFF FROM AN ADJACENT ROOF, AND UNBALANCED LOADS.
 - PROVIDE GALVANIZED METAL TRUSS CLIPS TO ANCHOR EACH END OF TRUSS. SIMPSON 102'S (OR APPROVED SUBSTITUTE) MINIMUM UNLESS NOTED OTHERWISE.
- ALL TRUSS HANGERS SHALL BE DESIGNED AND SUPPLIED BY THE TRUSS MANUFACTURER TO ACCOMMODATE TRUSSES SUPPLIED.
- PROVIDE TRUSS BRACING CONFORMING TO TRUSS PLATE INSTITUTE STANDARDS. PROVIDE TEMPORARY BRACING DURING ERECTION. PROVIDE PERMANENT BRACING AS REQUIRED IN THE DESIGN OF THE TRUSS AS INDICATED. IN ADDITION TO THE ABOVE PROVIDE PERMANENT BRACING AS FOLLOWS UNLESS OTHERWISE NOTED:
 - UNLESS SHEATHED WITH APA RATED SHEATHING, PROVIDE CONTINUOUS LATERAL BRACING OF THE TOP CHORD AS INDICATED ON THE DRAWINGS. PROVIDE DIAGONAL BRACING ON BOTH SIDES OF THE RIDGE AT END BAYS AND AT 20' INTERVALS FOR BUILDINGS OVER 60' IN LENGTH.
 - PROVIDE DIAGONAL BRACING IN THE PLANE OF WEB MEMBERS AT 12'-16" INTERVALS ALONG THE LENGTH OF TRUSSES AT END BAYS AND AT 20' INTERVALS ALONG THE LENGTH OF THE BUILDING.
 - UNLESS CONTINUOUSLY SHEATHED PROVIDE CONTINUOUS LATERAL BRACING OF THE BOTTOM CHORD AT 8'-10" INTERVALS AT OR NEAR PANEL POINTS OR AS INDICATED ON THE DRAWINGS. PROVIDE DIAGONAL BRACING ON BOTH SIDES OF THE RIDGE AT END BAYS AND AT 20'-0" INTERVALS FOR BUILDINGS OVER 60' IN LENGTH.

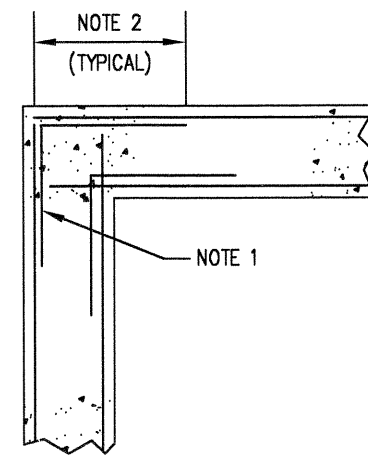
LAMINATED VENEER LUMBER (LVL)

- PARALLEL LAMINATED VENEER LUMBER SHALL BE MANUFACTURED FROM APPROPRIATE VENEERS GLUED UP IN A CONTINUOUS PROCESS WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. LVL SHALL BE MANUFACTURED IN A PLANT AND UNDER PROCESSES APPROVED BY THE NATIONAL RESEARCH BOARD.
- LVL SHALL BE OF SINGLE ONE-PIECE LENGTH FREE OF FINGER JOINTS, SCAP JOINTS OR MECHANICAL CONNECTIONS IN FULL LENGTH MEMBERS.
- DESIGN SHALL BE IN ACCORDANCE WITH PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD.
- MINIMUM ALLOWABLE DESIGN PARAMETERS SHALL BE:

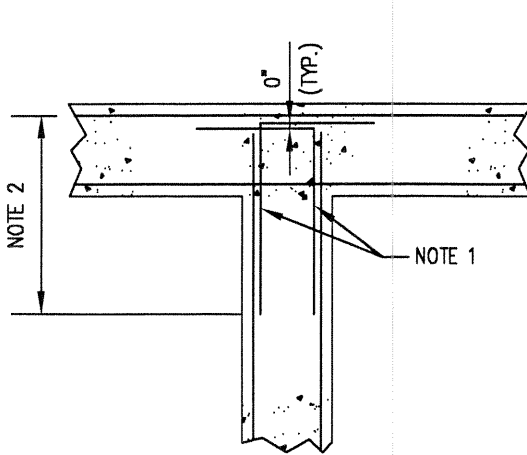
$E = 2,000,000$ PSI
$F_b = 2800$ PSI
$F_v = 285$ PSI



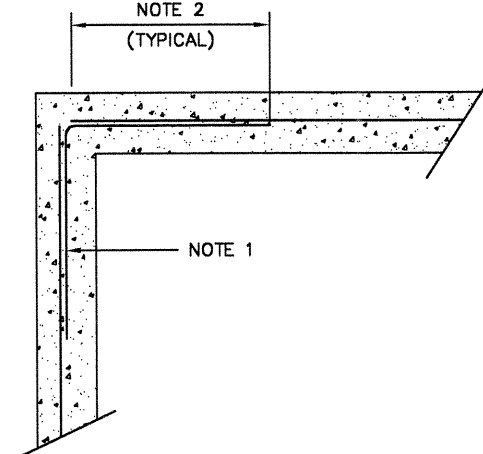
LIQUID-RETAINING STRUCTURES



OTHER STRUCTURES

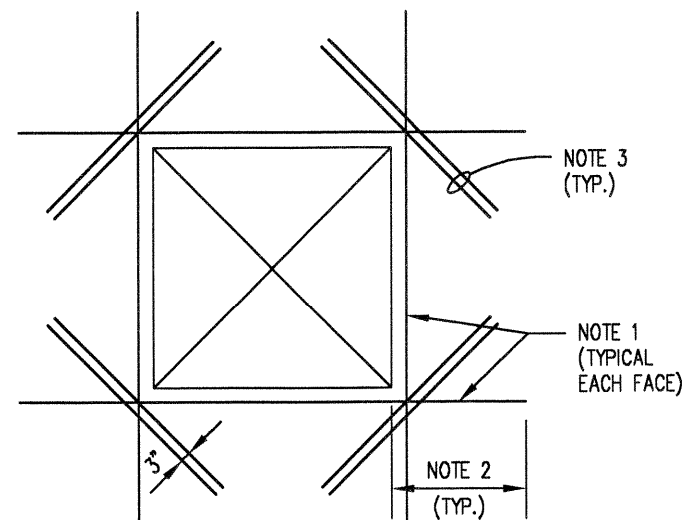


ALL STRUCTURES

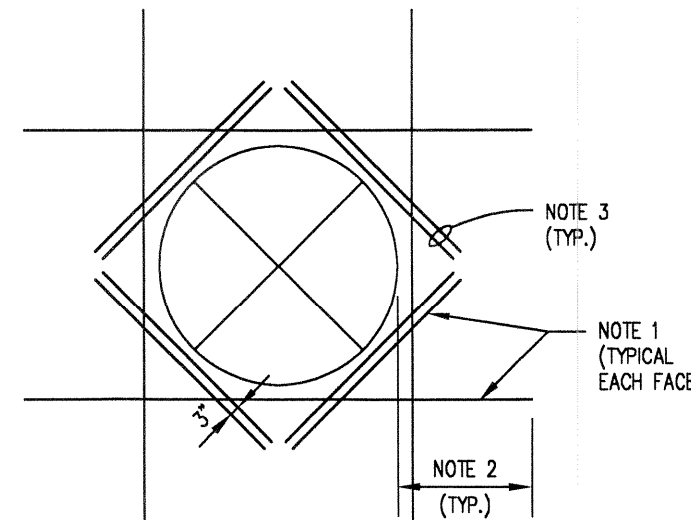


TYPICAL CORNER REINFORCEMENT WALL TYPICAL

NOT TO SCALE



RECTANGULAR



CIRCULAR

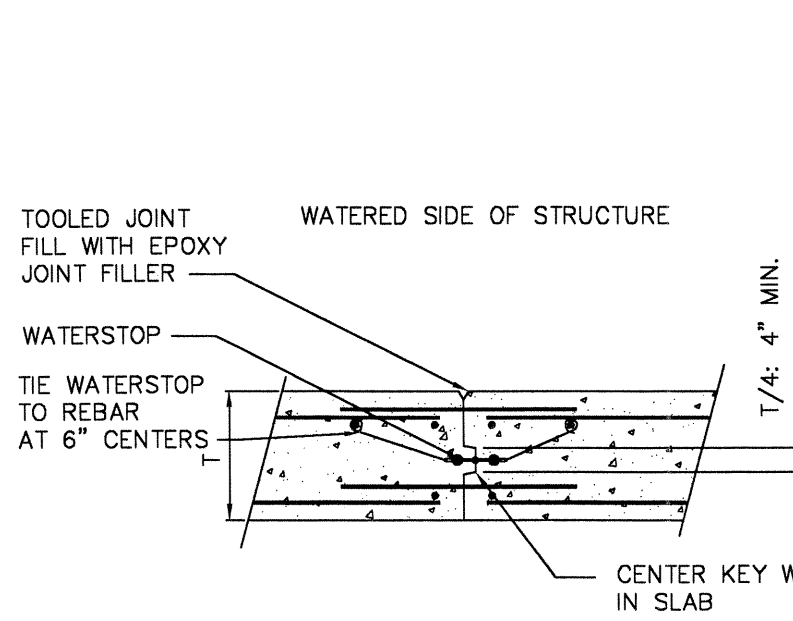
REINFORCEMENT AT OPENING NOTES:

- ADDITIONAL REINFORCEMENT EQUAL IN AREA TO REINFORCEMENT CUT BY OPENING.
- LAP SPlice LENGTH FOR TOP BARS (40 BAR DIAMETERS)
- DIAGONAL BARS - EACH FACE, 2 EACH CORNER - SIZE AS FOLLOWS:

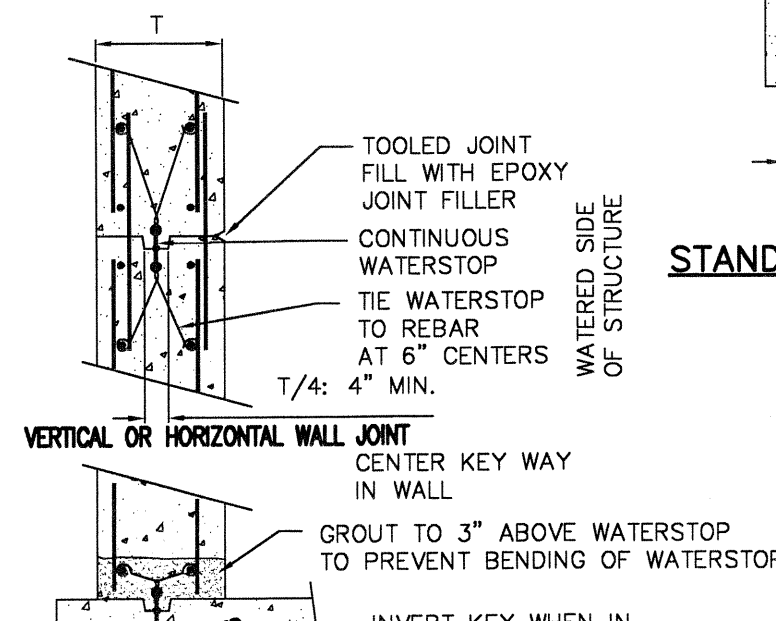
CONC. THICKNESS	BAR SIZE	LENGTH
LESS THAN 12"	#4	3'-0"
12" TO 18"	#5	3'-6"
GREATER THAN 18"	#6	4'-0"

TYPICAL ADDITIONAL REINFORCEMENT AT OPENINGS LARGER THAN 12"

NOT TO SCALE



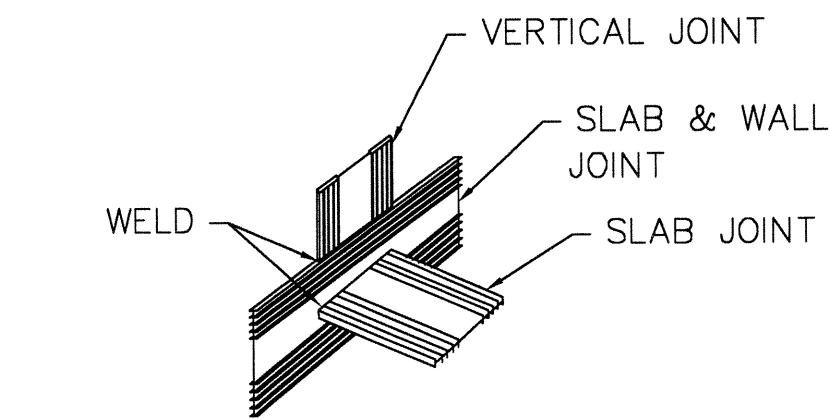
SLAB CONSTRUCTION JOINT



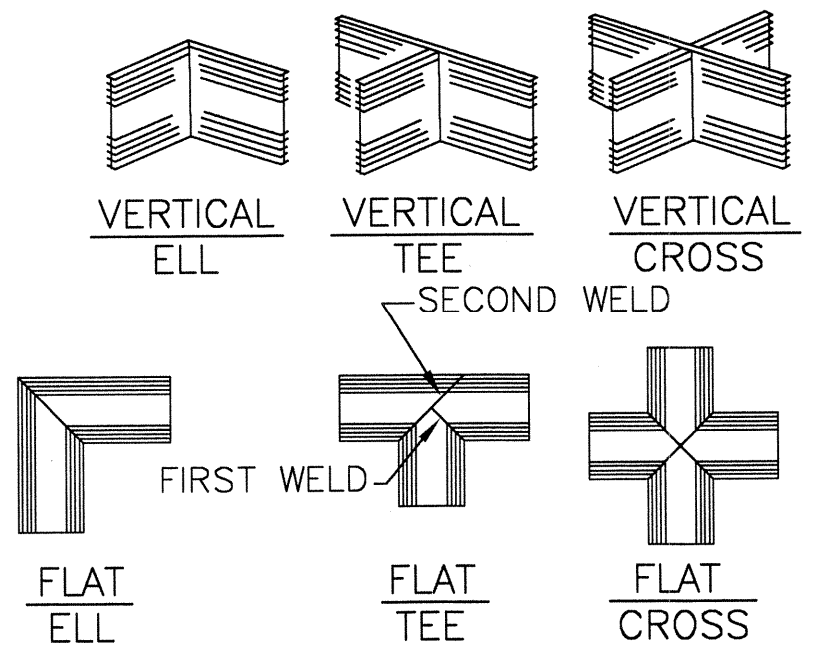
WALL CONSTRUCTION JOINT

CONSTRUCTION JOINT FOR WET WELLS

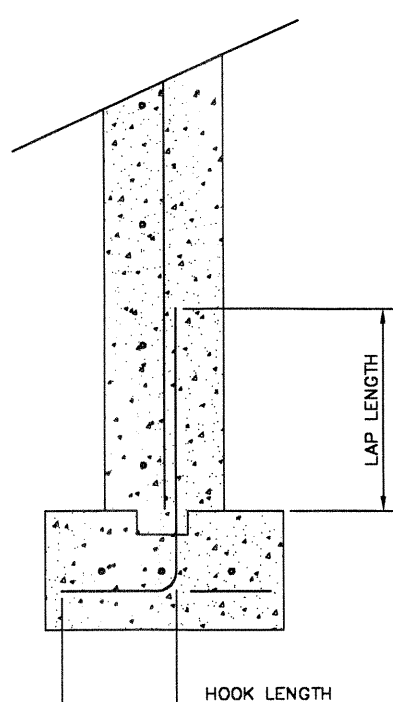
NOT TO SCALE



VERTICAL TO HORIZ.



WATERSTOP CONNECTION DETAILS

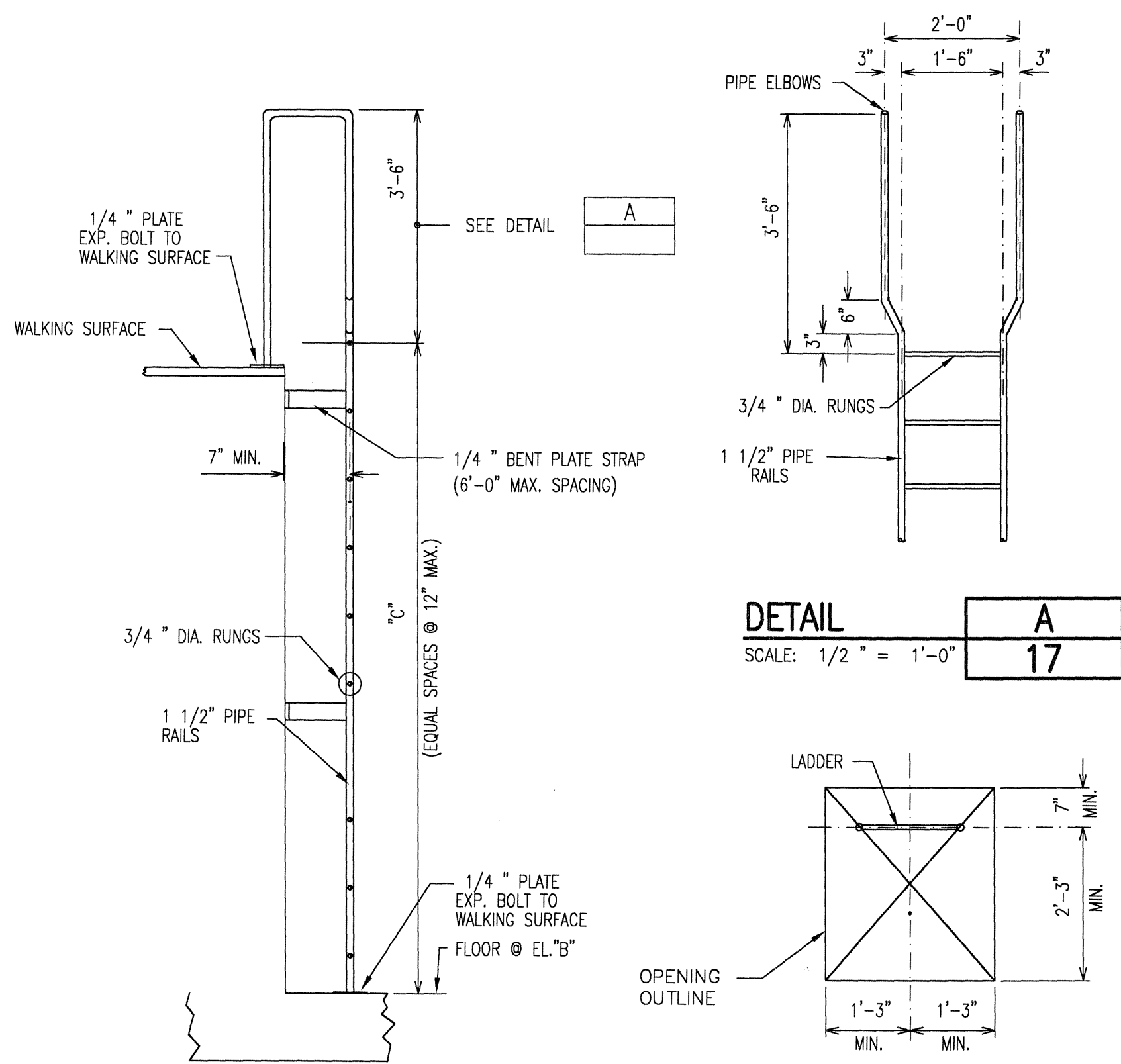


STANDARD LAP AND HOOK BUILDING FOOTER

NOT TO SCALE

BAR SIZE	LAP LENGTH	HOOK LENGTH
#3	12"	6"
#4	1'-3"	8"
#5	1'-7"	10"
#6	1'-11"	1'-0"
#7	2'-3"	1'-2"

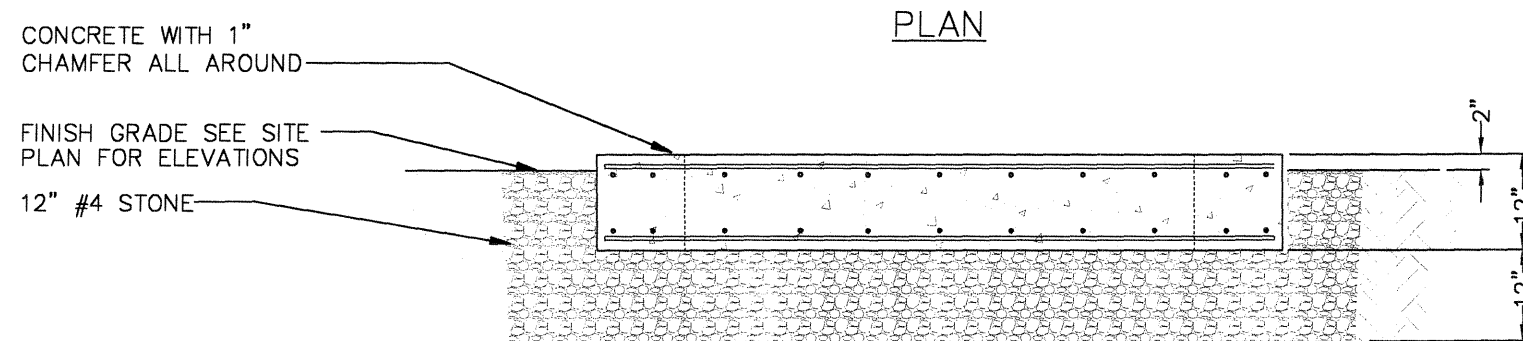
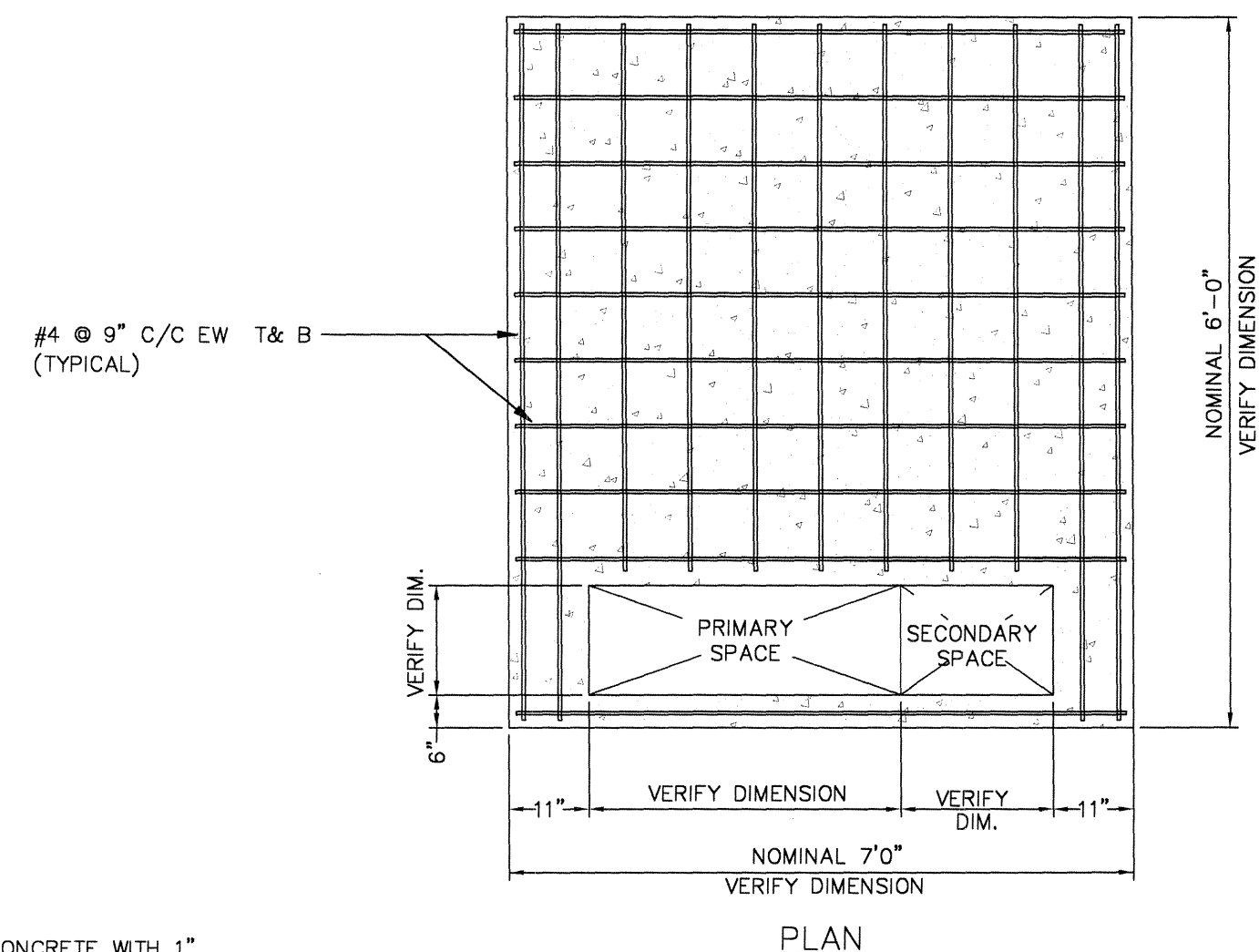
ANY INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSIONS OF THIS PROJECT OR FOR ANY USE ON ANY OTHER PROJECT WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE ENGINEER, ARCHITECT OR SURVEYOR. FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OR ENDORSEMENT.



TYPICAL VERTICAL LADDER
DETAIL - TYPE A
SCALE: 1/2" = 1'-0"

LADDER CLEARANCE
DIMENSIONS
SCALE: 1/2" = 1'-0"

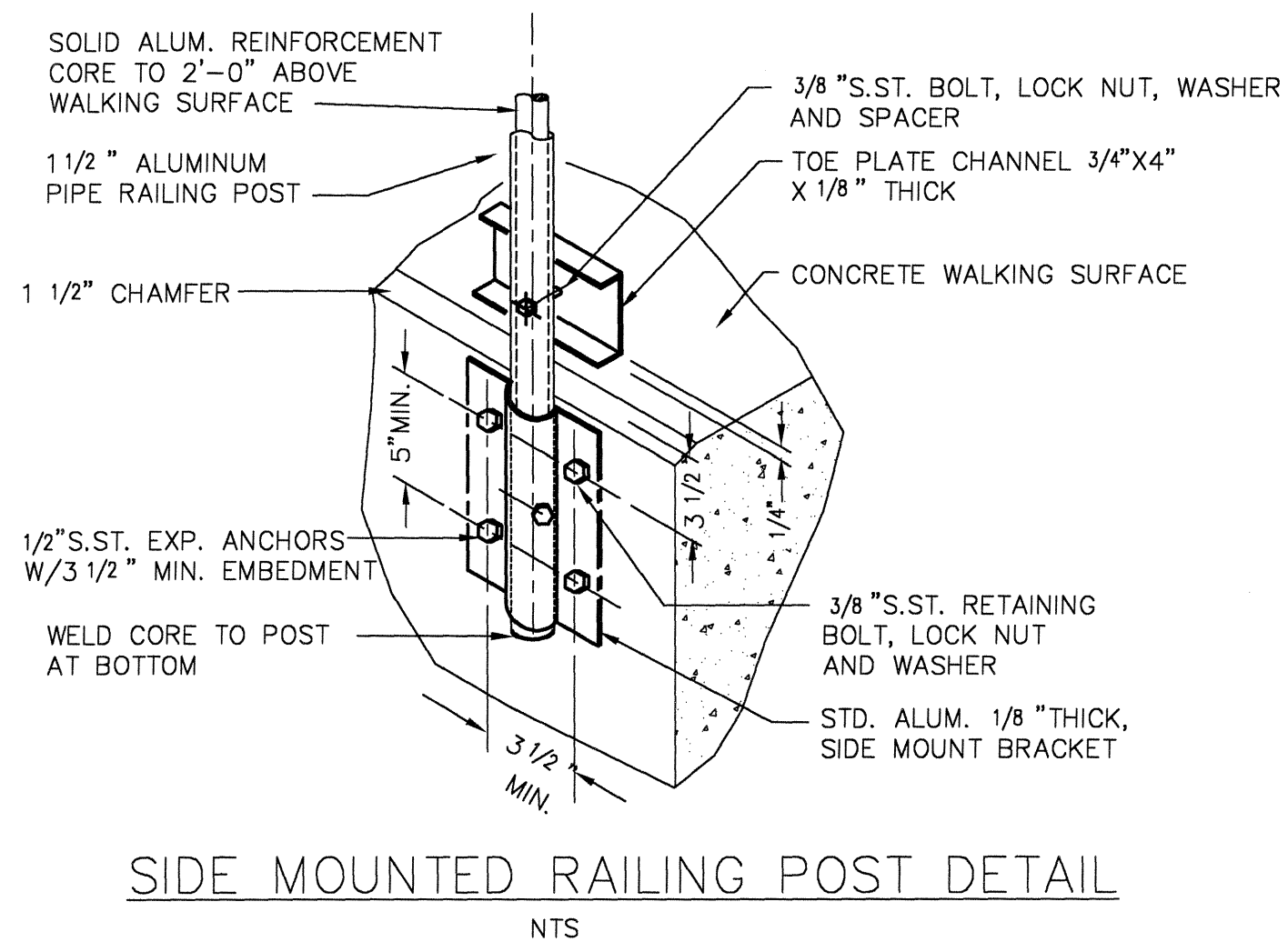
- GENERAL NOTES:
1.-200LB CONCENTRATED LOAD AT CENTER OF RUNG
2.-MAX. DISTANCE BETWEEN RUNGS 12" MIN. LENGTH 16"
3.-DISTANCE FROM CENTER LINE OF RUNG TO WALL 7"
4.-LADDER SHALL MEET THE MOST CURRENT OSHA AND OSHA CODES
5.-MATERIALS OF CONSTRUCTION SHALL BE ALUMINUM WITH STAINLESS STEEL FASTENERS



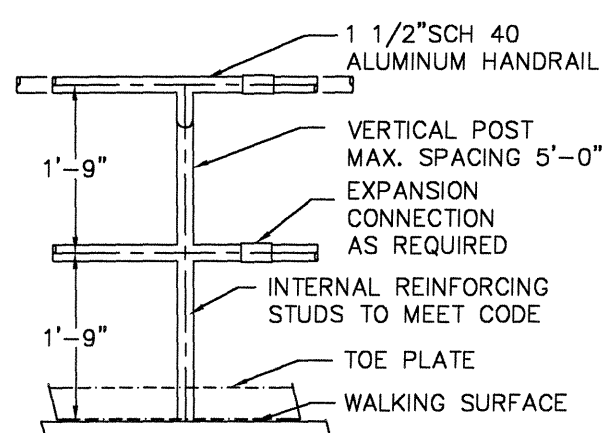
TRANSFORMER PAD NOTES:

1. CONDUITS SHALL NOT PROJECT ABOVE PAD. COORDINATE ALL ELECTRICAL WORK WITH G.C.
2. CONCRETE TO BE 3500 PSI STRENGTH. SEE STRUCTURAL DETAIL SHEET BY G.C.
3. 48" CLEARANCES MUST BE MAINTAINED ON BOTH SIDES AND REAR OF PAD. 72" CLEARANCE MUST BE MAINTAINED IN FRONT OF PAD.

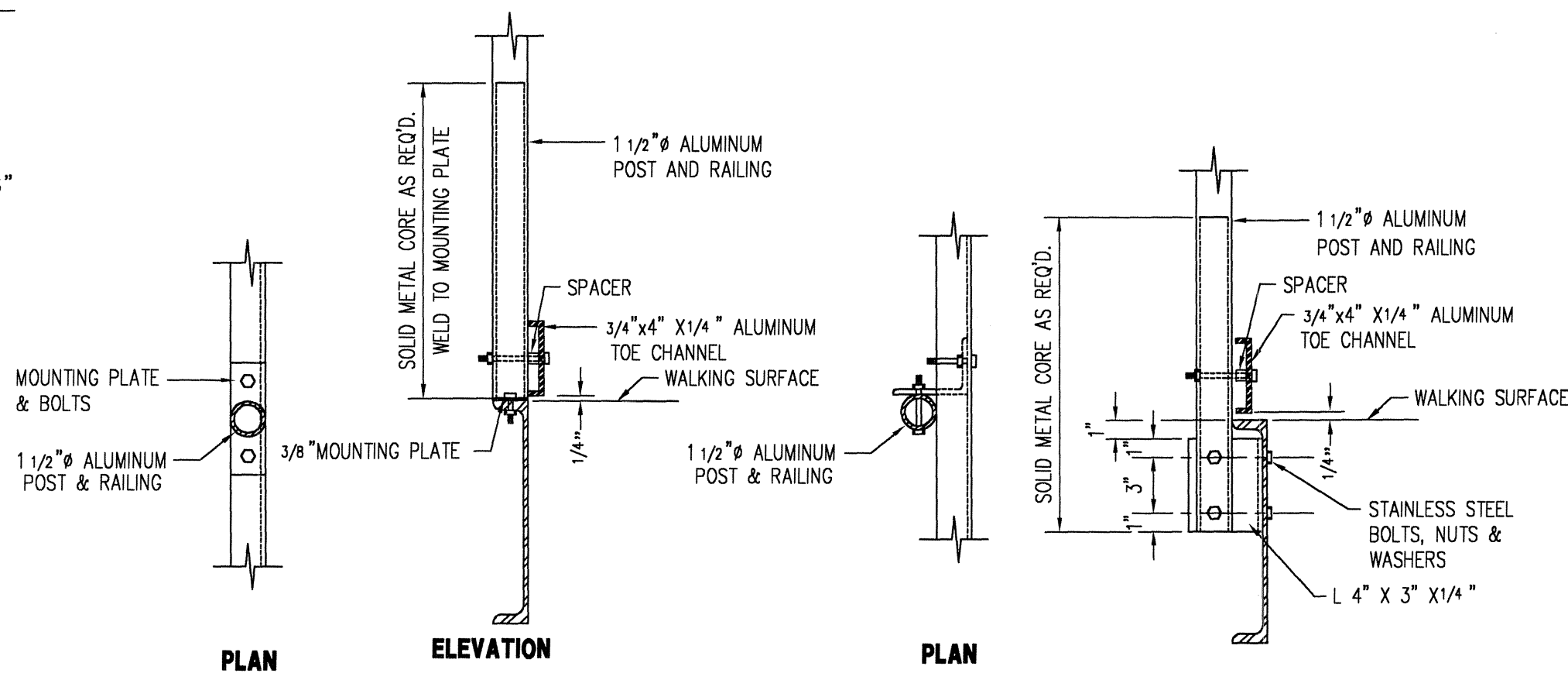
TRANSFORMER PAD DETAIL
NO SCALE



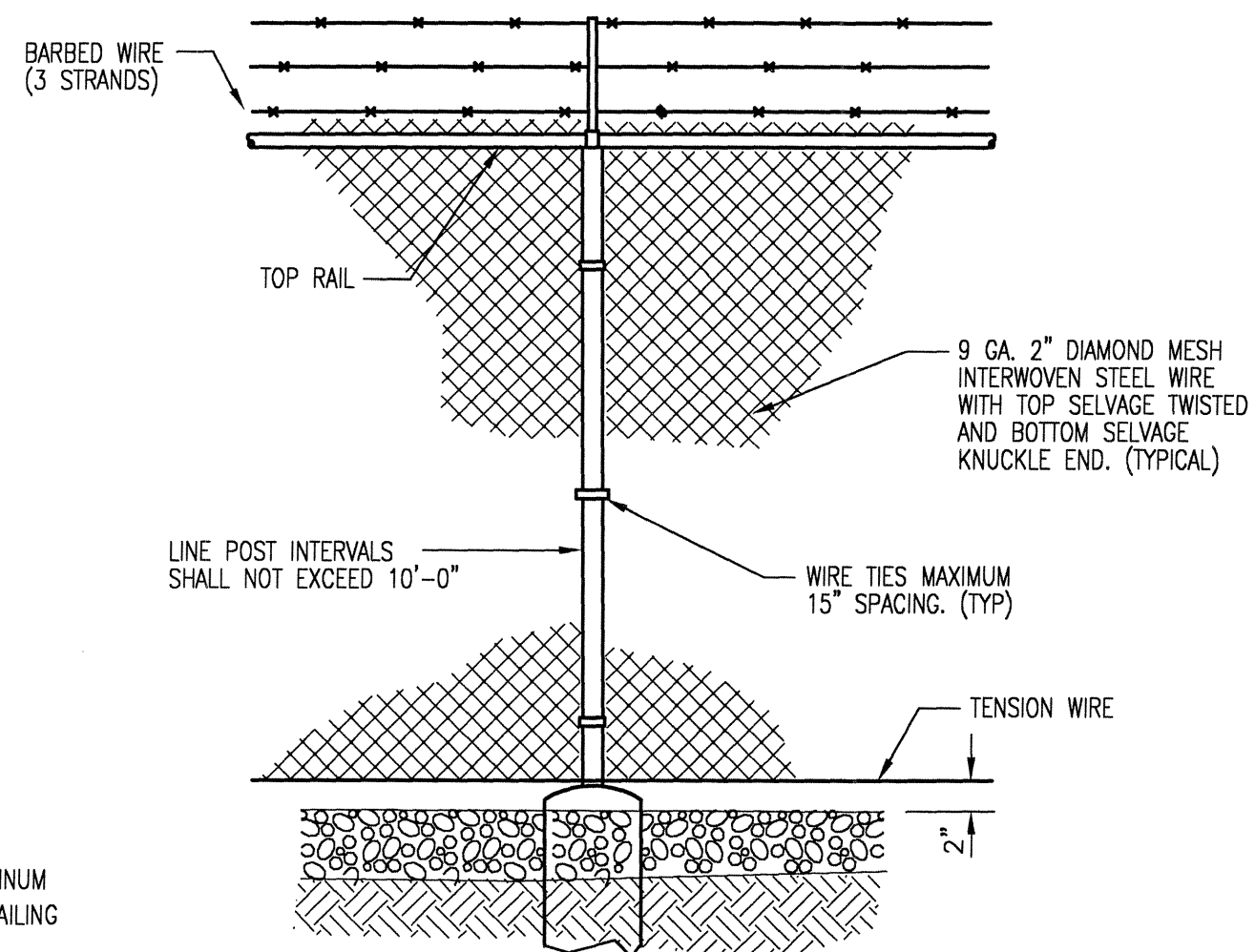
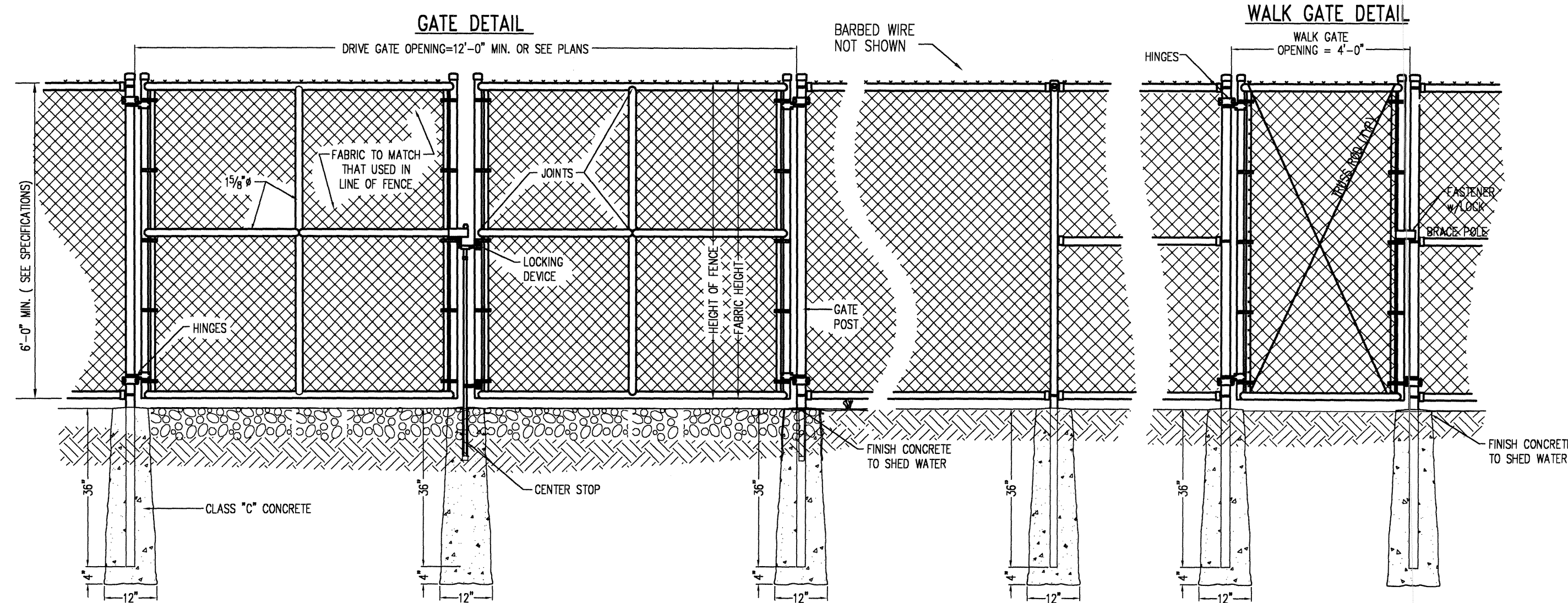
SIDE MOUNTED RAILING POST DETAIL
N.T.S.



HORIZONTAL RAILING DETAIL
N.T.S.

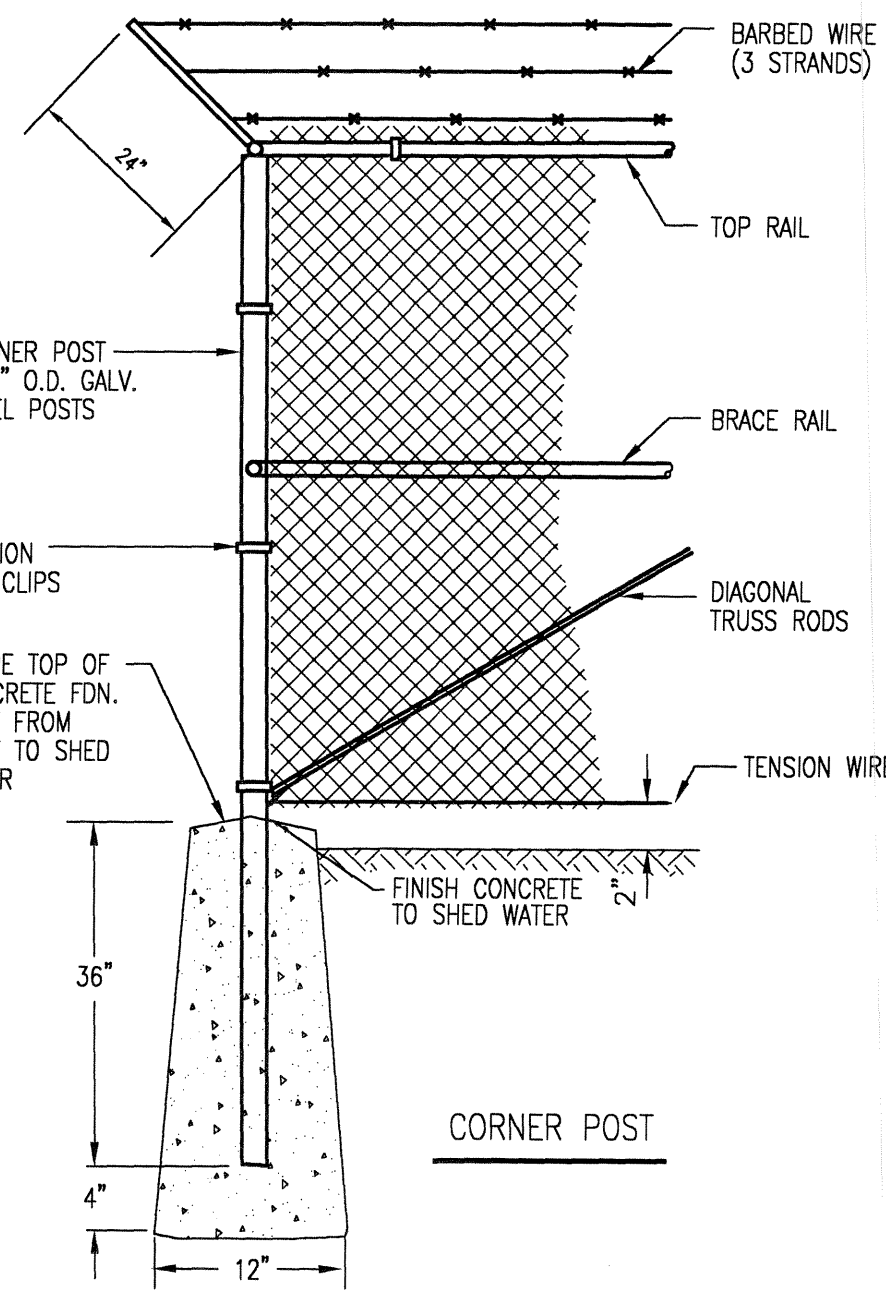


TOP MOUNTED
SIDE MOUNTED
STEEL MOUNTED HANDRAIL DETAILS
SCALE: NONE

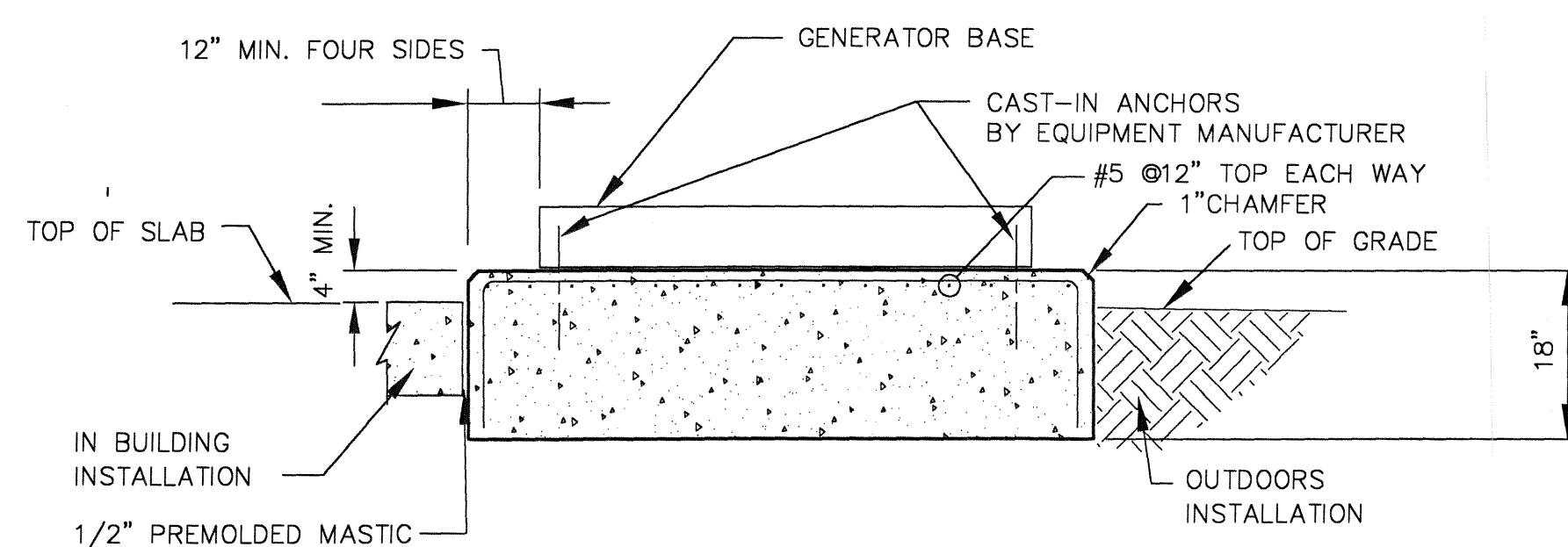


LINE POST

FENCE DETAILS
Not to Scale

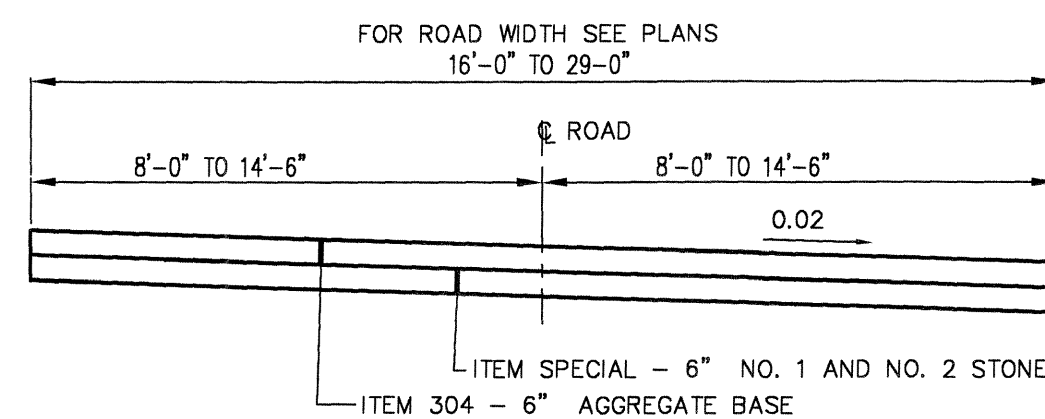


CORNER POST



NOTE: CONCRETE BASE BY GENERAL CONTRACTOR.
G.C. TO COORDINATE WITH ELECTRICAL CONTRACTOR
FOR ALL CONDUITS PENETRATIONS REQUIRED

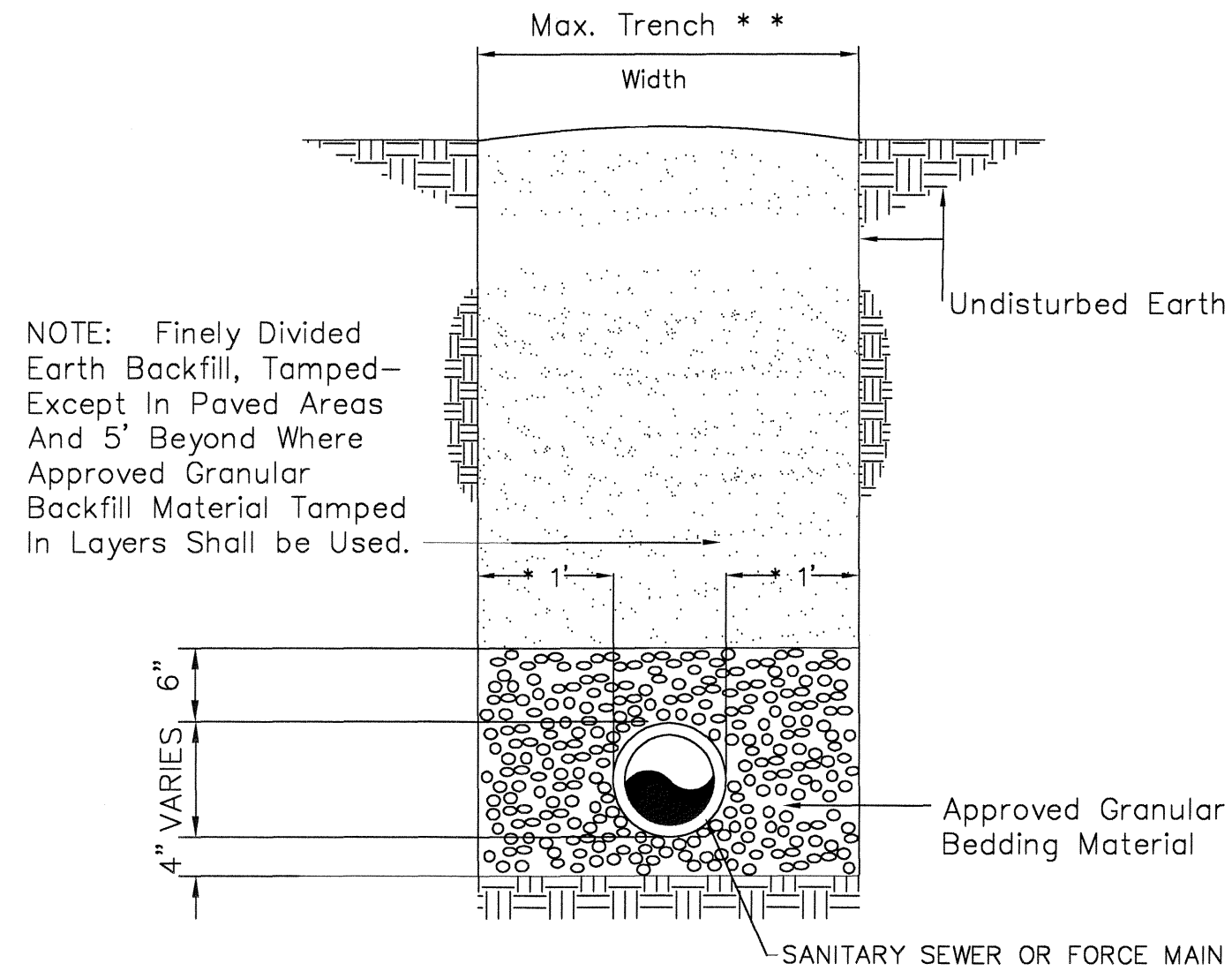
GENERATOR CONCRETE BASE DETAIL
NOT TO SCALE



STONE PAVEMENT DETAIL
NOT TO SCALE

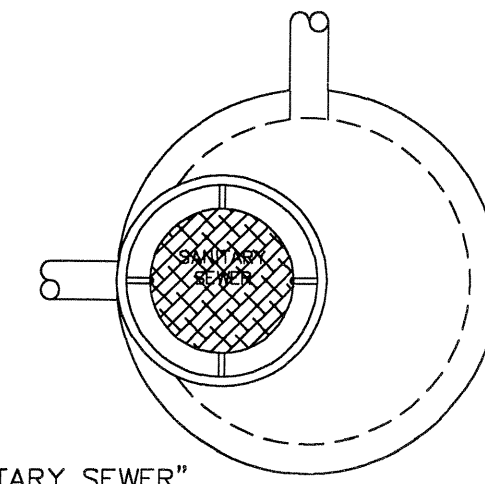
CONTRACT A

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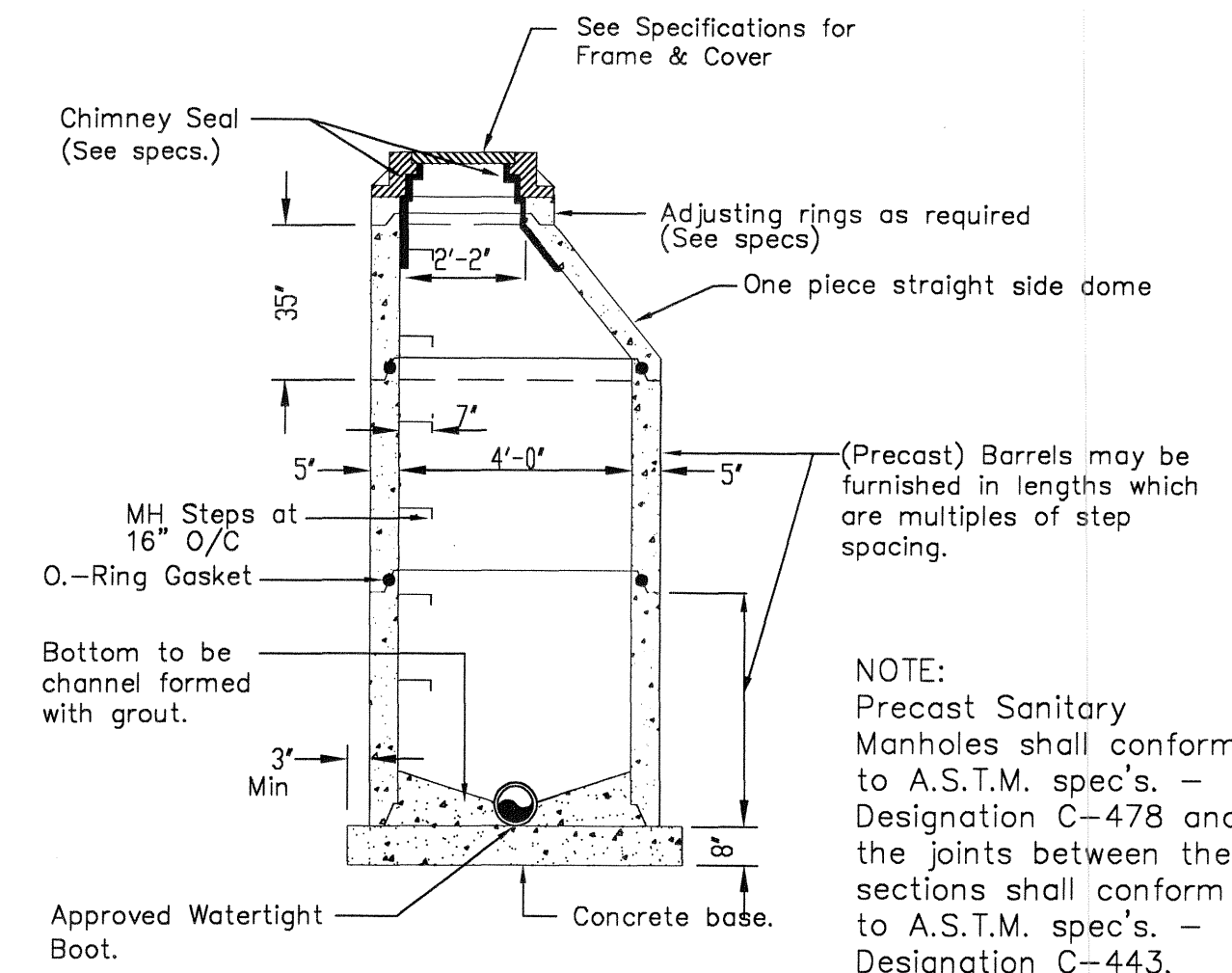
** Pay Limits Only, Maximum Trench Width Shall Be The Same As The Trench Width At The Top Of The Pipe.
* For Sewer Up To 24" I.D. (Max. Is 18" For Sewers Over 24" I.D.)

GRAVITY SANITARY SEWER TRENCH DETAIL



NOTE: The words "SANITARY SEWER" shall be cast on the cover.

TOP PLAN

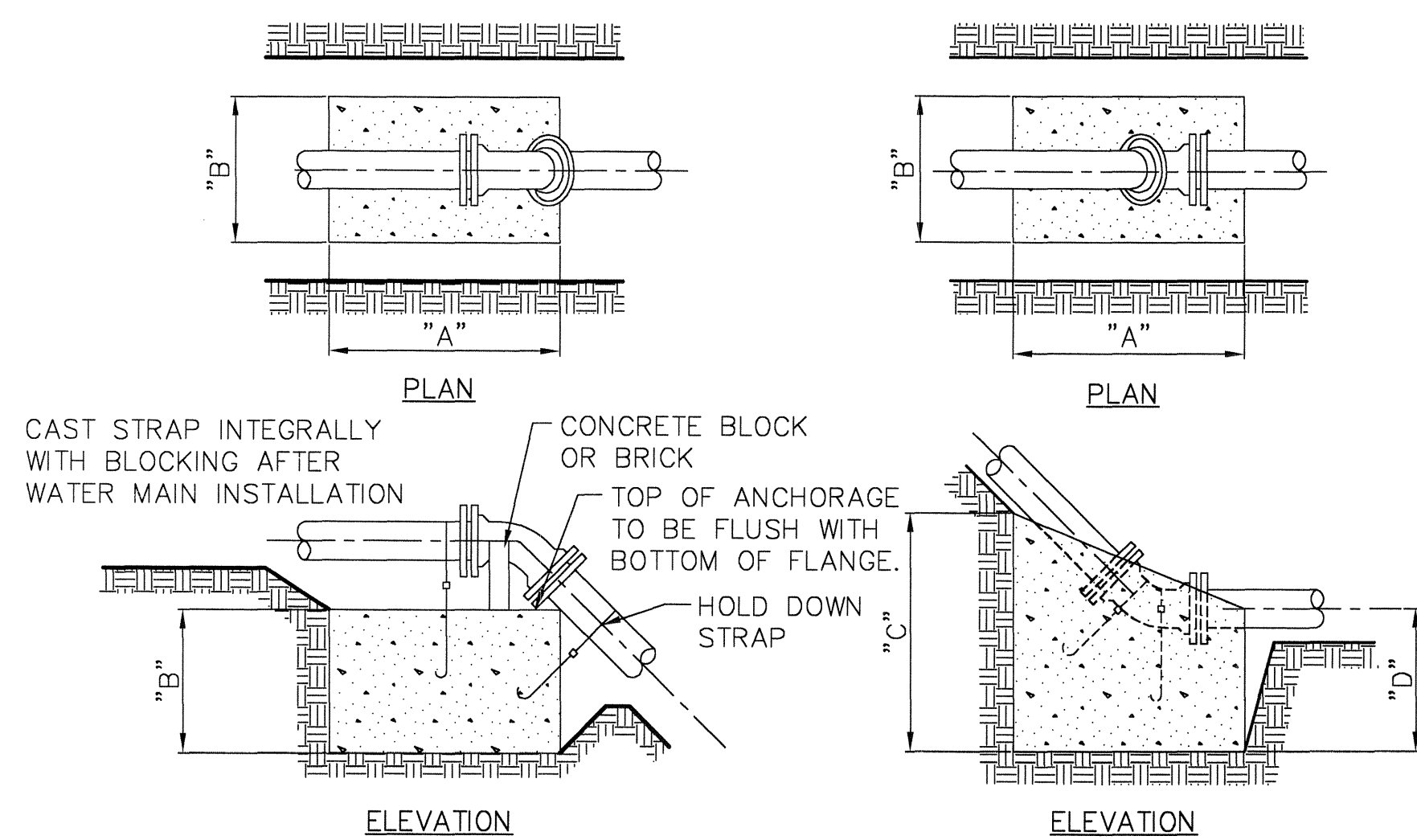


SANITARY MANHOLE DETAIL

N.T.S.

LEGEND

- COMPACTED EARTH BACKFILL
- UNDISTURBED EARTH
- ITEM 310.02 GRANULAR BACKFILL
- NO. 67 STONE

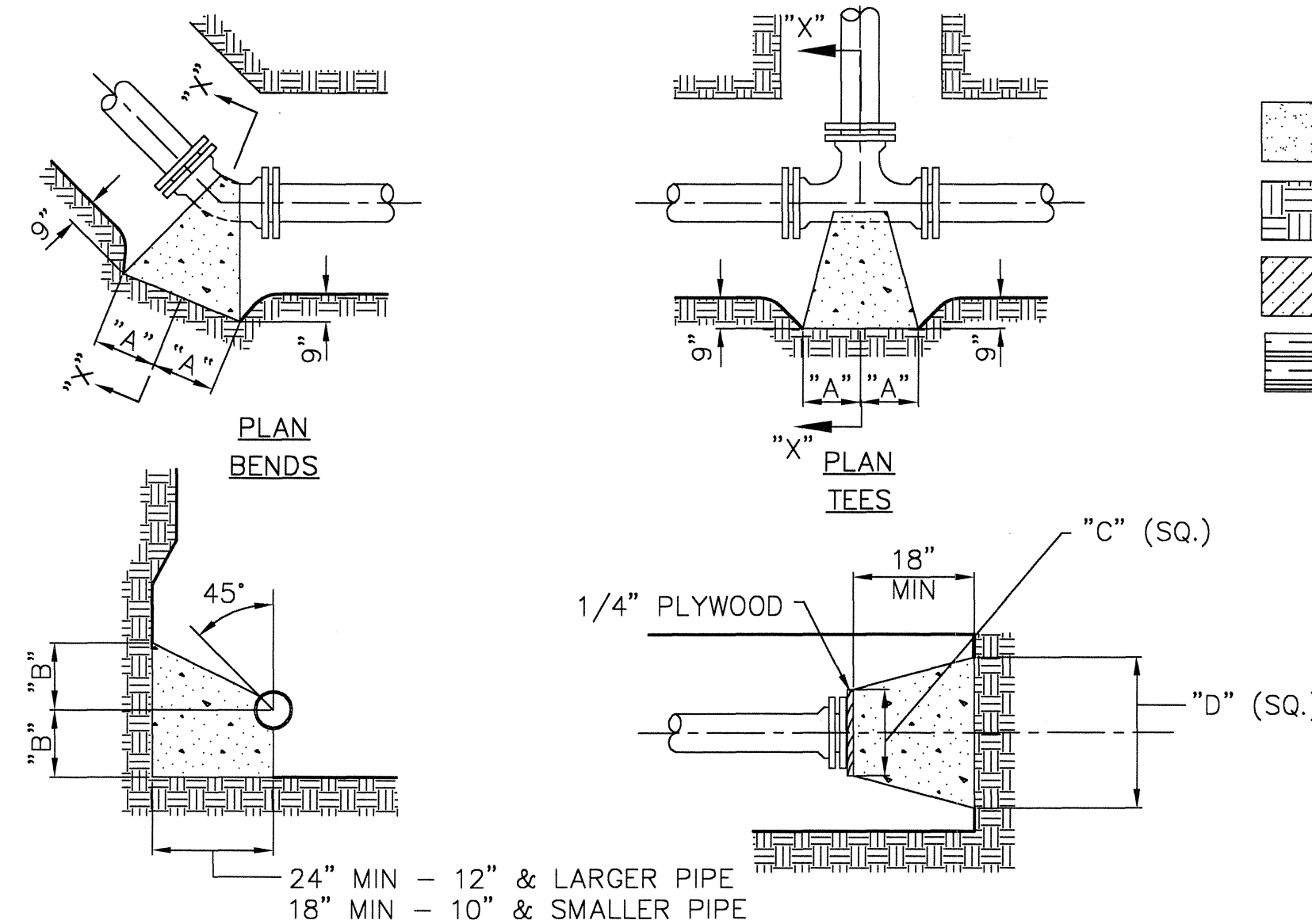


STANDARD BLOCKING

NOTE:
6" TO 8" 1-1/4"x1-1/8" STRAP
10" TO 12" 2-1/4"x1-1/4" STRAP
14" TO 16" 2-3/8"x1-1/2" STRAP
18" TO 20" 2-1/2"x1-3/4" STRAP

VERTICAL BENDS

SOIL TYPE	SIZE	TYPE A			TYPE B		
2000 PSF SOIL	6"	36"	30"	24"	24"	24"	16"
	8"	42"	36"	24"	30"	24"	18"
	10"	48"	42"	30"	36"	30"	18"
	12"	54"	48"	36"	42"	36"	21"
	14"	54"	48"	60"	42"	42"	24"
	16"	60"	54"	60"	48"	48"	24"
	20"	72"	60"	72"	60"	54"	30"



STANDARD BLOCKING

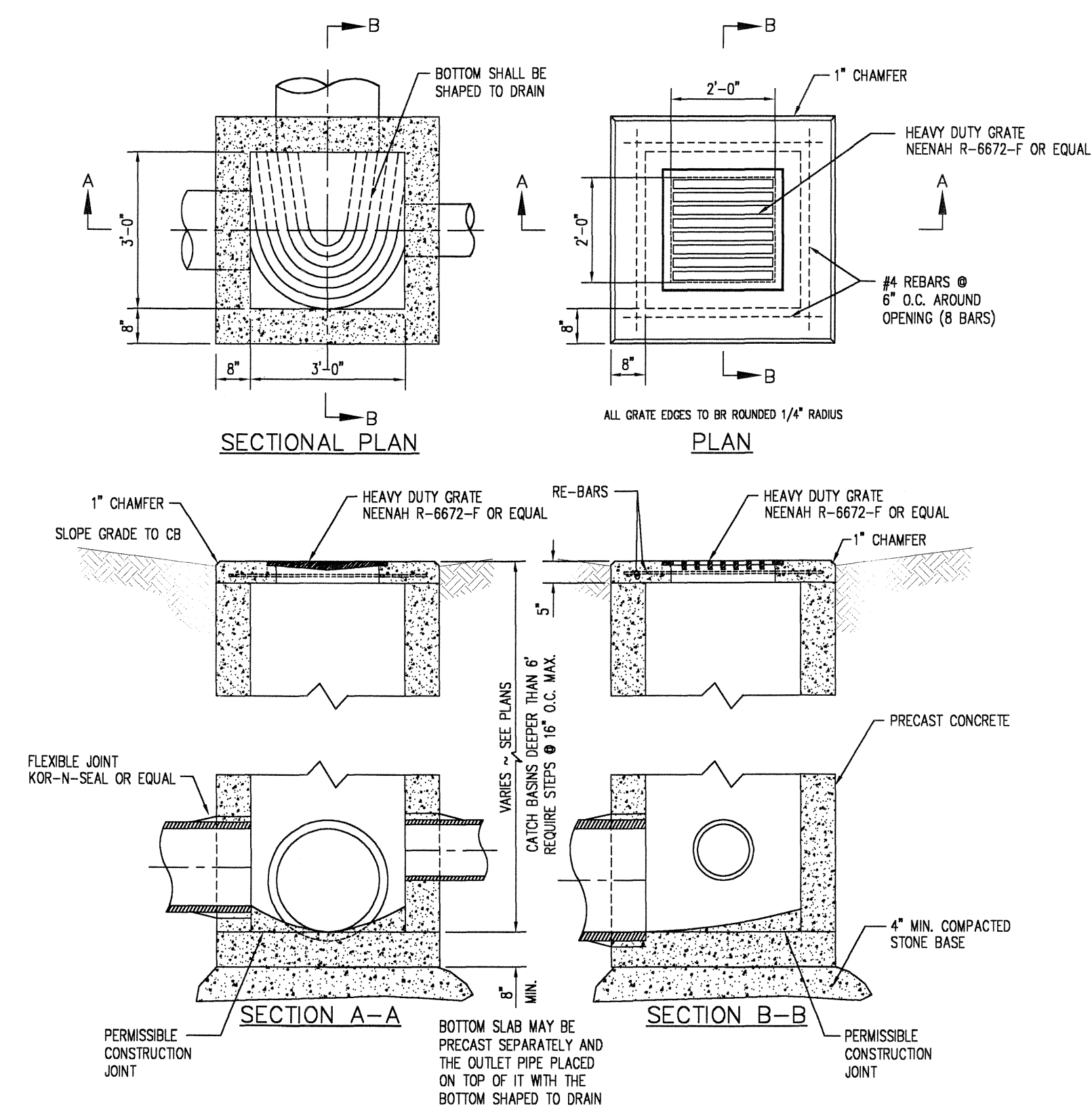
TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
2000 PSF SOIL	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
	20"	46"	36"	25"	36"	15"	30"	30"	39"	24"	68"

NOTE:
BASED ON 100 P.S.I. STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER.

ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

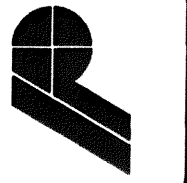
ALL PIPE SURFACES COMING IN CONTACT WITH CONCRETE SHALL BE WRAPPED WITH 6MIL POLYETHYLENE.

CONCRETE FOR BLOCKING SHALL BE CAST IN PLACE AND SHALL CONFORM TO O.D.O.T. ITEM 499, CLASS "C" AS PER THE O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS.



CATCH BASIN DETAIL
NOT TO SCALE

CONTRACT A



POGEMEYER DESIGN GROUP, INC.
PLANNERS
ENGINEERS
ARCHITECTS
1168 NORTH MAIN STREET
BOWLING GREEN, OHIO 43402
(419) 352-7537

**CSO IMPROVEMENTS
CSO BASIN AND PUMP STATION
VILLAGE OF OAK HARBOR, OHIO**

**TRENCH
AND PIPING
DETAILS**

DRAWN BY CHECKED BY
W.M.V. S.R.W.

REVISION

21
OF
32
JOB NUMBER
1590-120

