

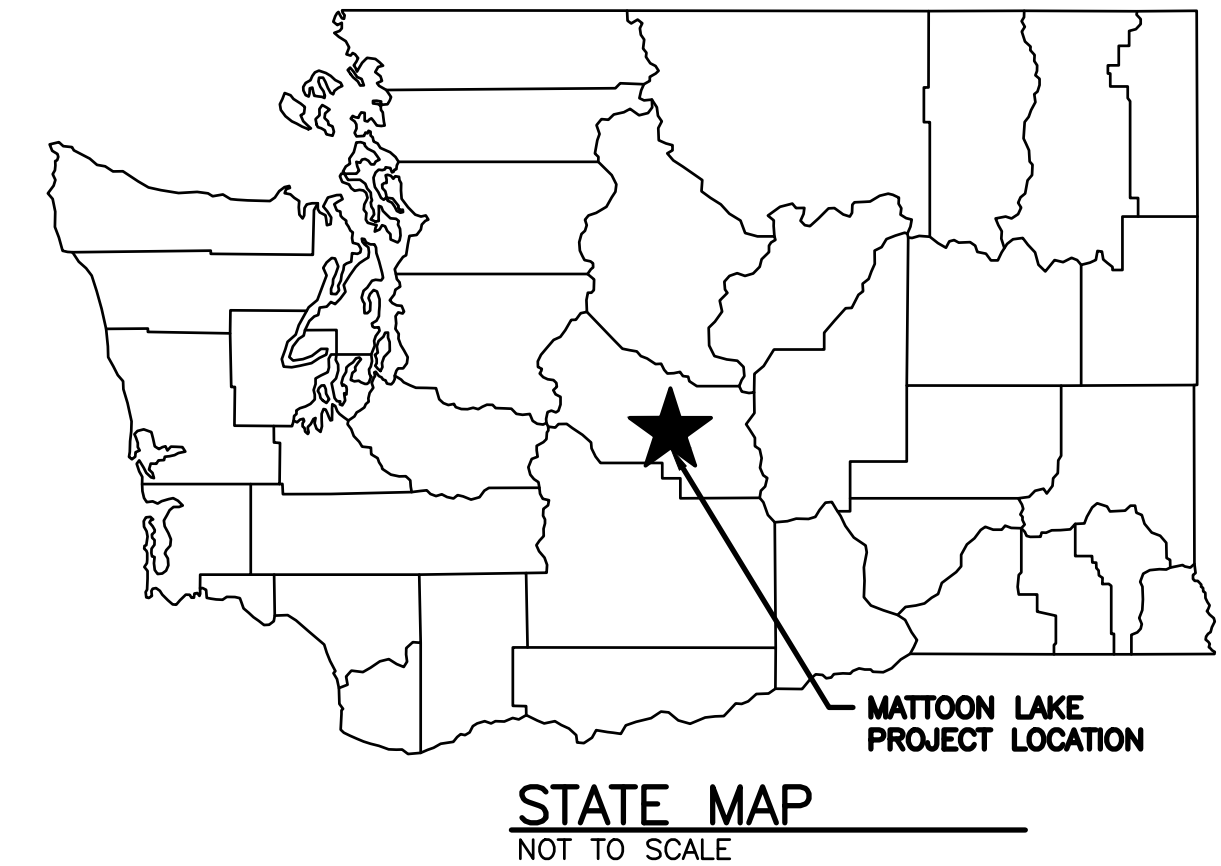


WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

MATTOON LAKE ACCESS ACCESS REDEVELOPMENT

KS:A278:2024-1

KITITAS CO CDS
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11/22/2024



ABBREVIATIONS

ALUM	-	ALUMINUM
L	-	ANGLE
APPROX	-	APPROXIMATELY
BM	-	BENCH MARK
CL	-	CENTERLINE
CMP	-	CORRUGATED METAL PIPE
CLR	-	CLEARANCE
CONC	-	CONCRETE
CSBC	-	CRUSHED SURFACE BASE COURSE
CSTC	-	CRUSHED SURFACE TOP COURSE
DIA	-	DIAMETER
ELEV	-	ELEVATION
FB	-	FLAT BAR
FTG	-	FOOTING
FT	-	FEET
GALV	-	GALVANIZED
HDPE	-	HIGH-DENSITY POLYETHYLENE
HSS	-	SQUARE HOLLOW STRUCTURAL SECTION
ID	-	INSIDE DIAMETER
IE	-	INVERT ELEVATION
MFG	-	MANUFACTURER'S
MISC	-	MISCELLANEOUS
MI	-	MILES
OC	-	ON CENTER
OHW	-	ORDINARY HIGH WATER
OD	-	OUTSIDE DIAMETER
PL	-	PLATE
PSF	-	POUNDS PER SQUARE FOOT
REQ'D	-	REQUIRED
SEC	-	SECTION
SPEC'S	-	PROJECT SPECIFICATIONS
SS	-	STAINLESS STEEL
TYP	-	TYPICAL
UHMW	-	ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE
WS	-	WATER SURFACE

PROJECT INFORMATION

ADDRESS:

DIKE RD
ELLENSBURG, WA 98926

LOCATION:

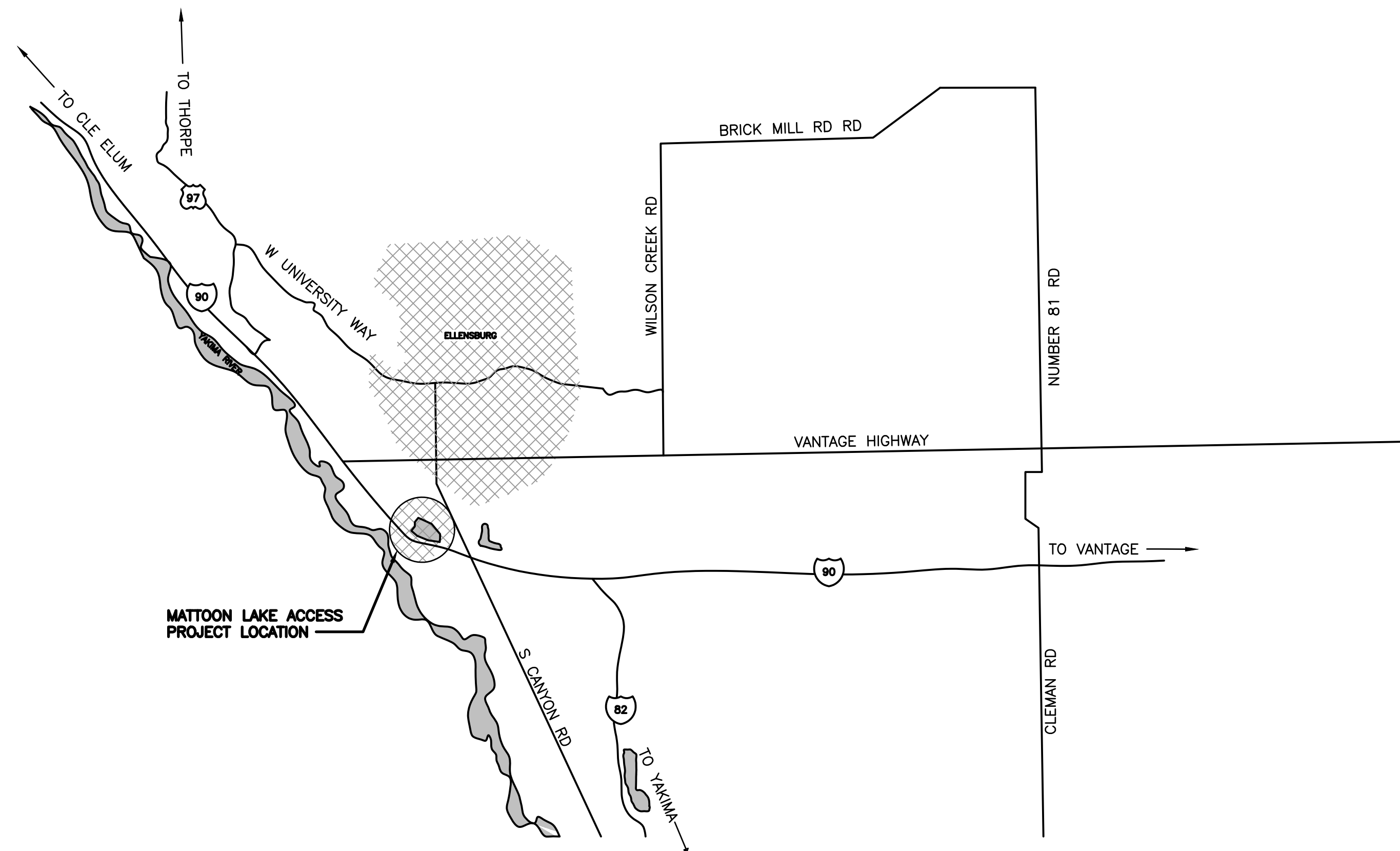
LAT: 46.978333
LONG -120.553056
SECTION: 11
TOWNSHIP: 17N
RANGE: 18E W.M.
PARCEL: 307636
AREA: 52.89 ACRES

OWNER:

WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE
600 CAPITAL WAY N.
OLYMPIA, WA 98501
(360-902-8300)
DON PONDER, CHIEF ENGINEER
JOHN HANSEN, PROJECT MANAGER

SHEET INDEX

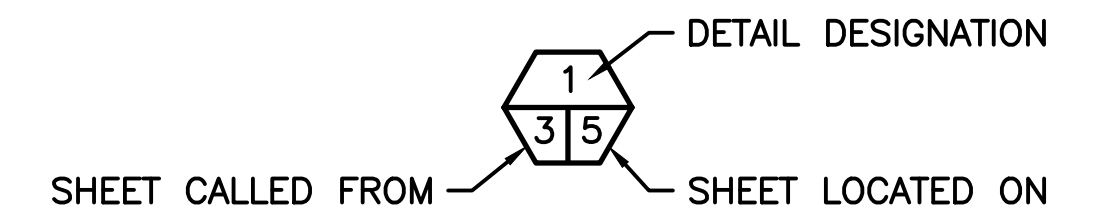
#	SHEET TITLE
1	COVER
2	PARCEL SITE PLAN
3	ENLARGED EXISTING SITE PLAN
4	ENLARGED PROPOSED SITE PLAN
5	FISHING FLOAT PLAN & PROFILE
6	GENERAL NOTES
7	6' X 20' FLOAT PLAN AND ELEVATION
8	6' X 20' FLOAT SECTIONS AND DETAILS
9	6' X 20' MISCELLANEOUS DETAILS
10	HINGE AND ABUTMENT DETAILS
11	10' x 34' FLOAT PLAN AND SECTION
12	DETAILS 1
13	DETAILS 2
14	ACCESSIBLE PARKING DETAILS
15	CXT GUNNISON VAULT TOILET DETAILS



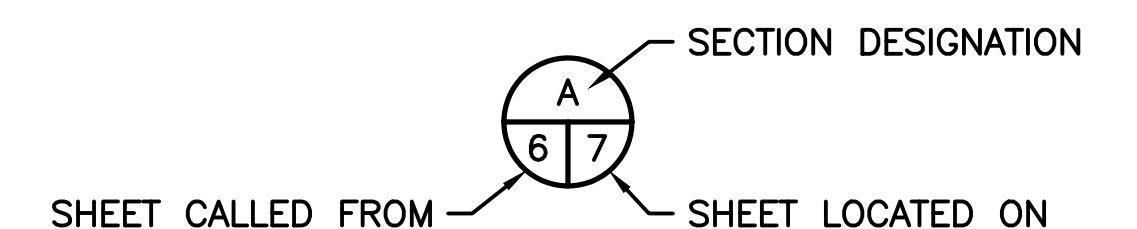
VICINITY MAP
NOT TO SCALE

DIRECTIONS:
FROM KITITAS COUNTY COURTHOUSE
HEAD WEST ON W 5TH AVE TOWARDS
N WATER ST
0.4 MI
TURN LEFT ON N RAILROAD AVE
0.9 MI
CONTINUE ONTO ANDERSON RD
0.2 MI
TURN RIGHT ONTO UMPANUM RD
433 FT
DESTINATION ON LEFT

SHEET SYMBOLS

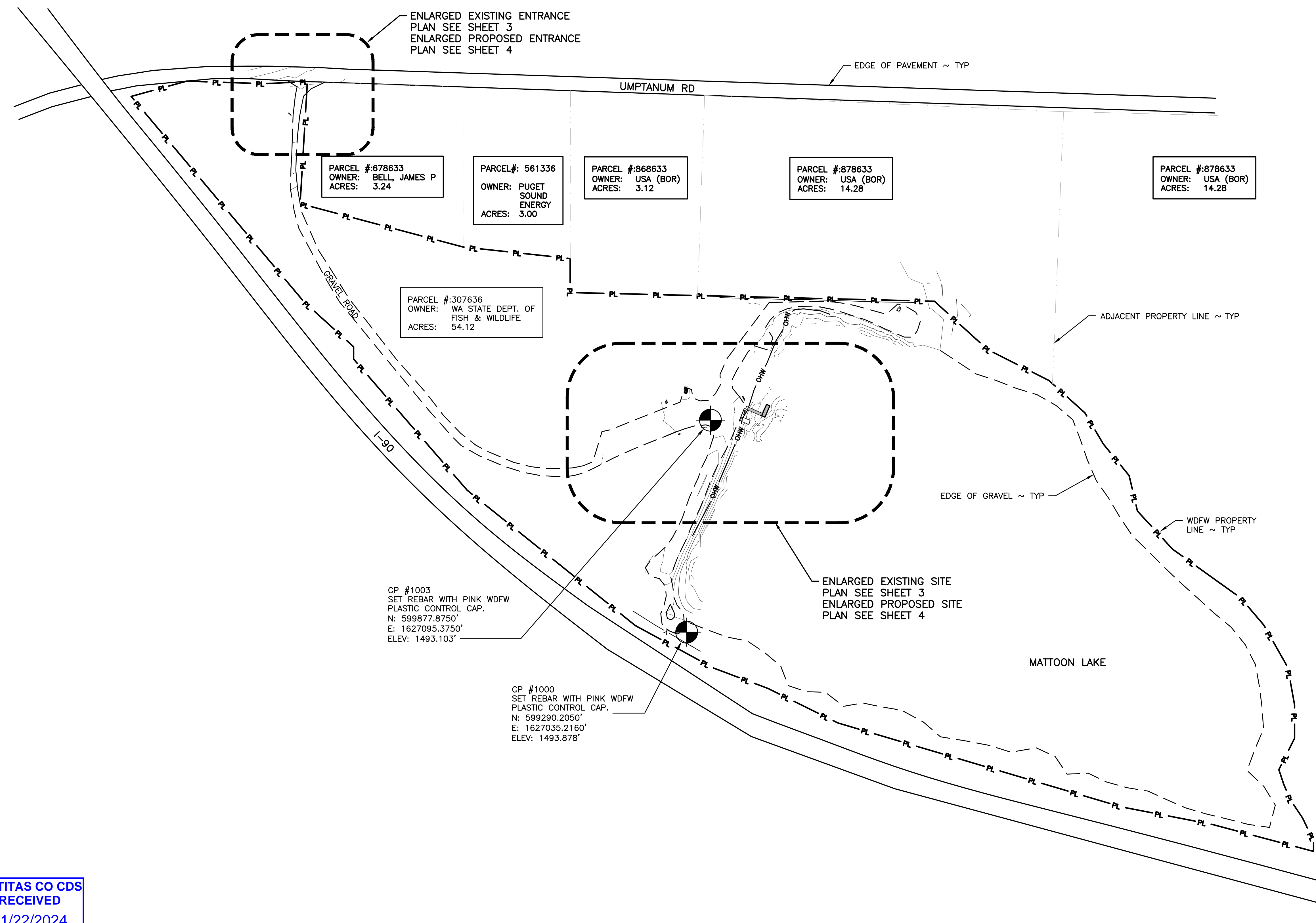
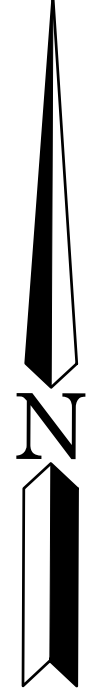


DETAIL

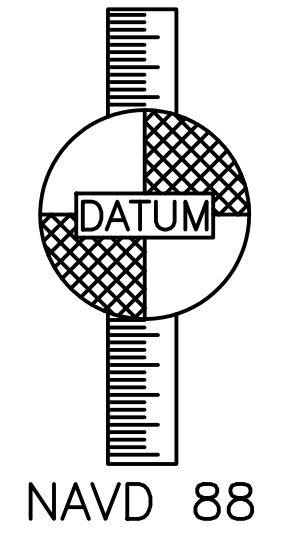


SECTION

PROJECT NO. KS:A278:2024-1	
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1	15



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VERTICAL DATUM
NAVD 88 DERIVED FROM GPS MON PID SB05444.

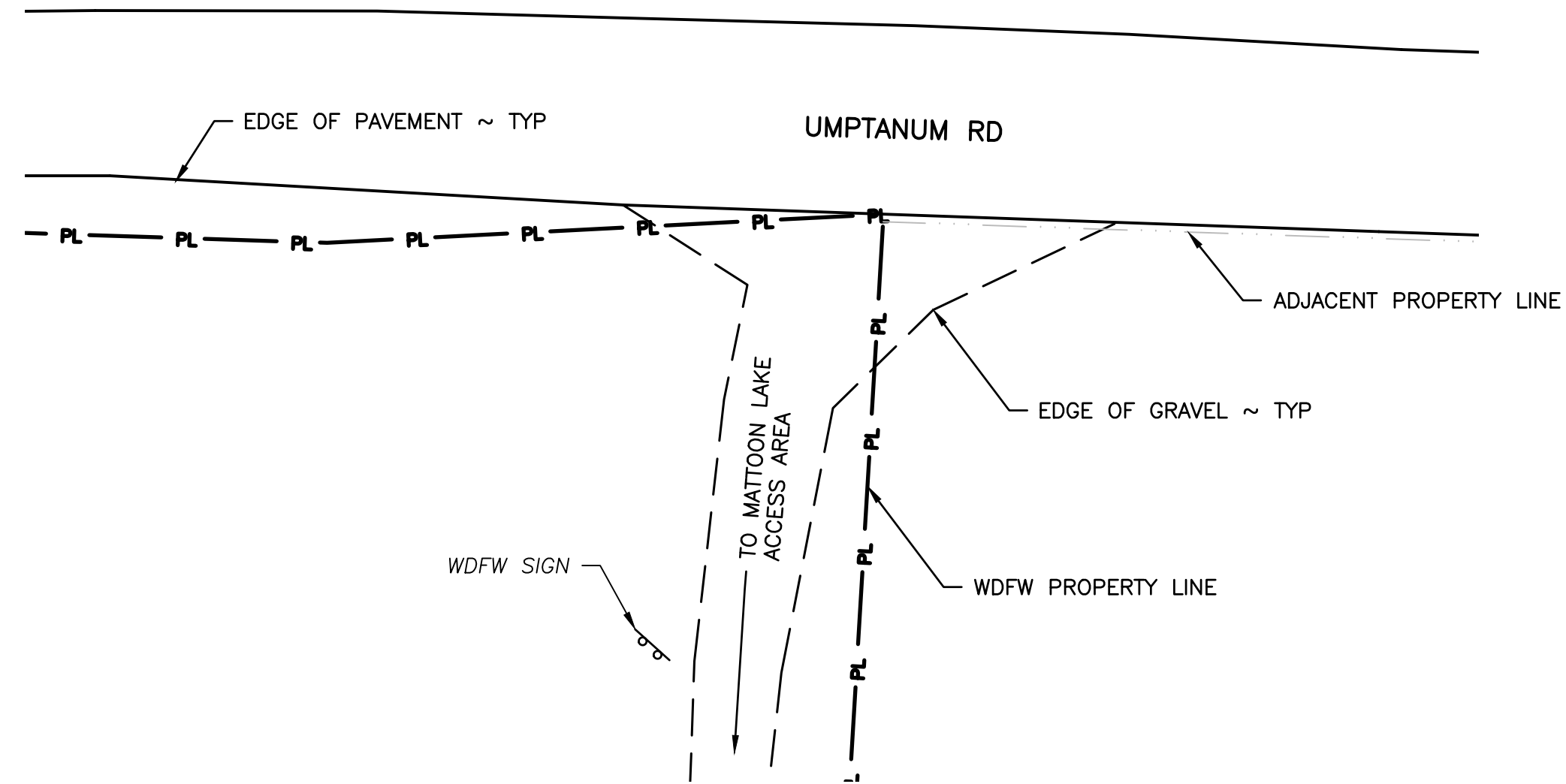
PARCEL SITE PLAN
1"=100' 22x34
1"=200' 11x17

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

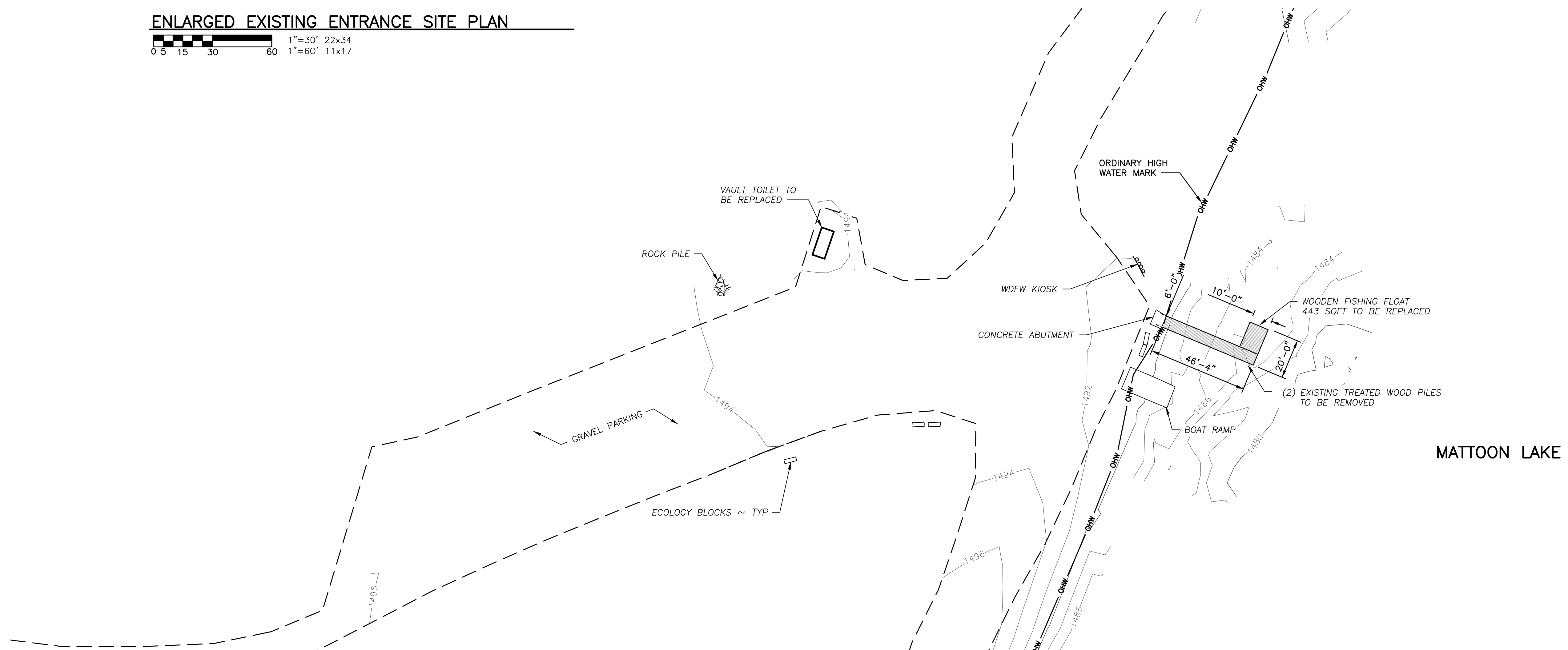
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CHIEF ENGINEER	DATE:		DESIGNED BY J.HANSEN
PROGRAM	DATE:		CHECKED BY S.GOODWIN
			DRAWN BY SS, SG
			DATE 6/13/2024

MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
PARCEL SITE PLAN

PROJECT NO.
KS:A278:2024-1
SHEET 2 OF 15



ENLARGED EXISTING ENTRANCE SITE PLAN



ENLARGED EXISTING SITE PLAN



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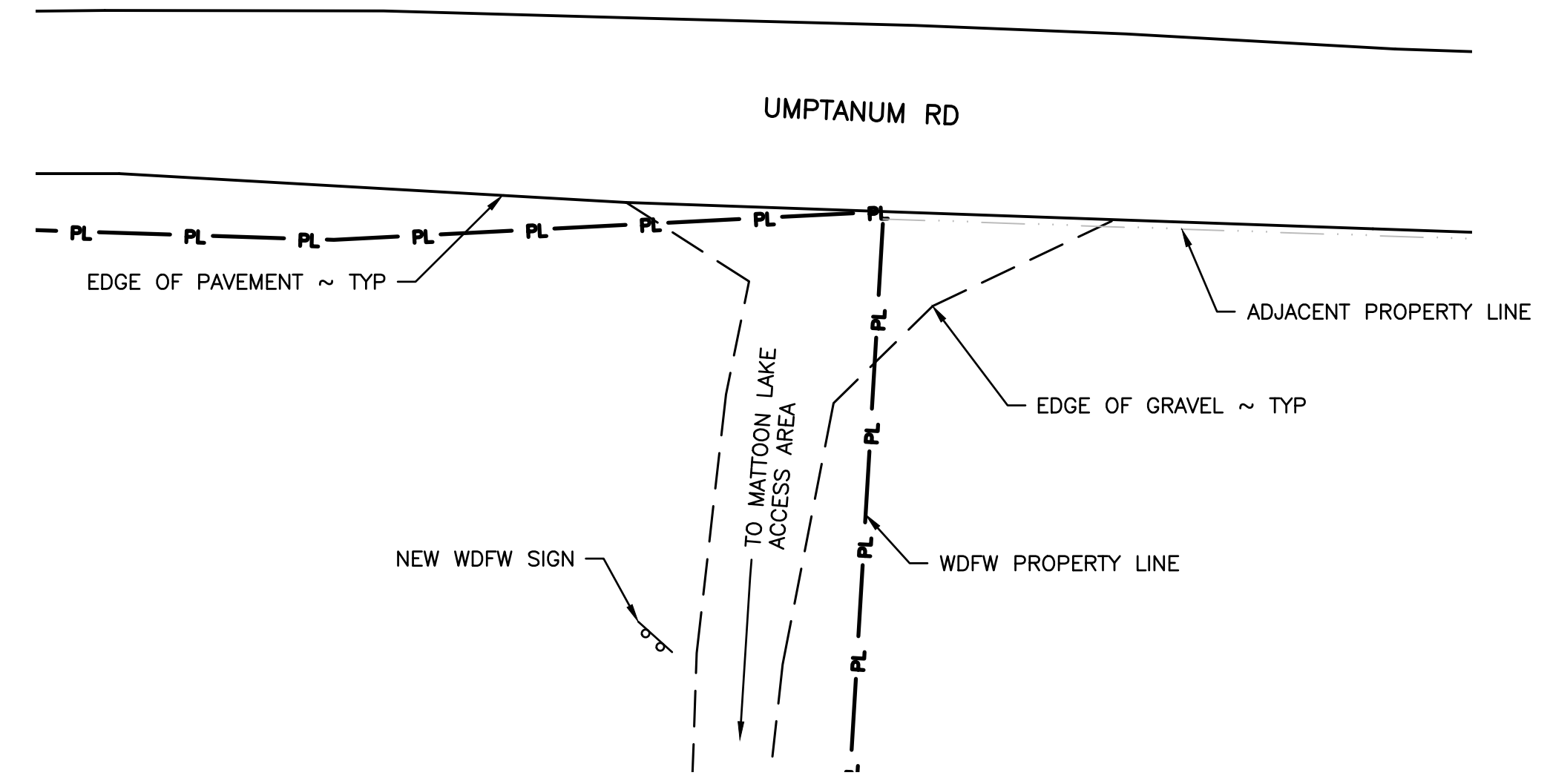
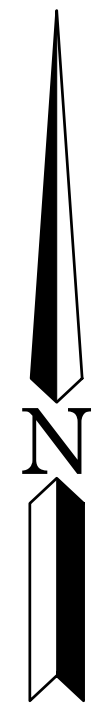
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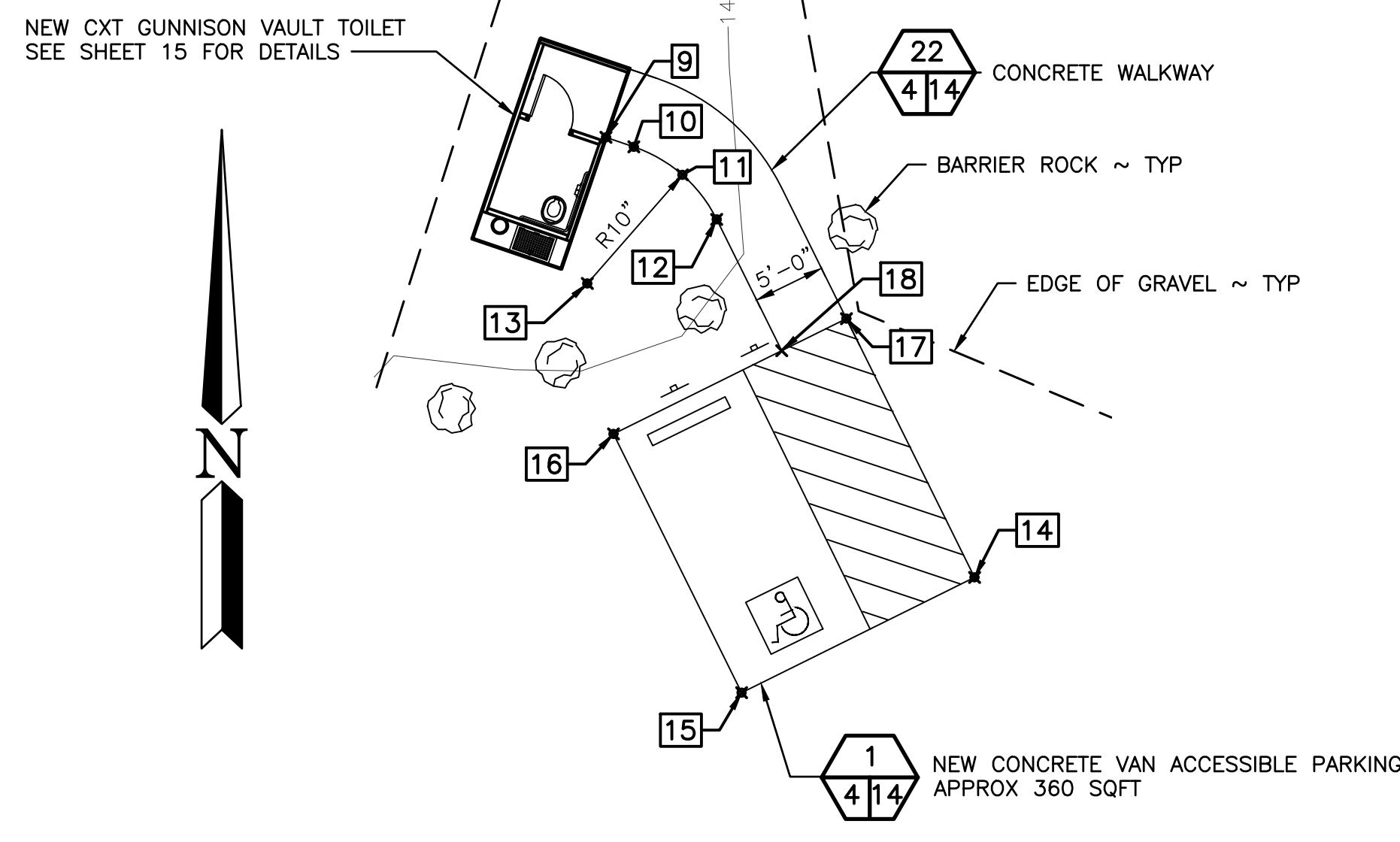
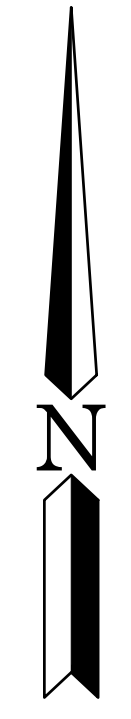
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ENLARGED ENTRANCE SITE PLAN

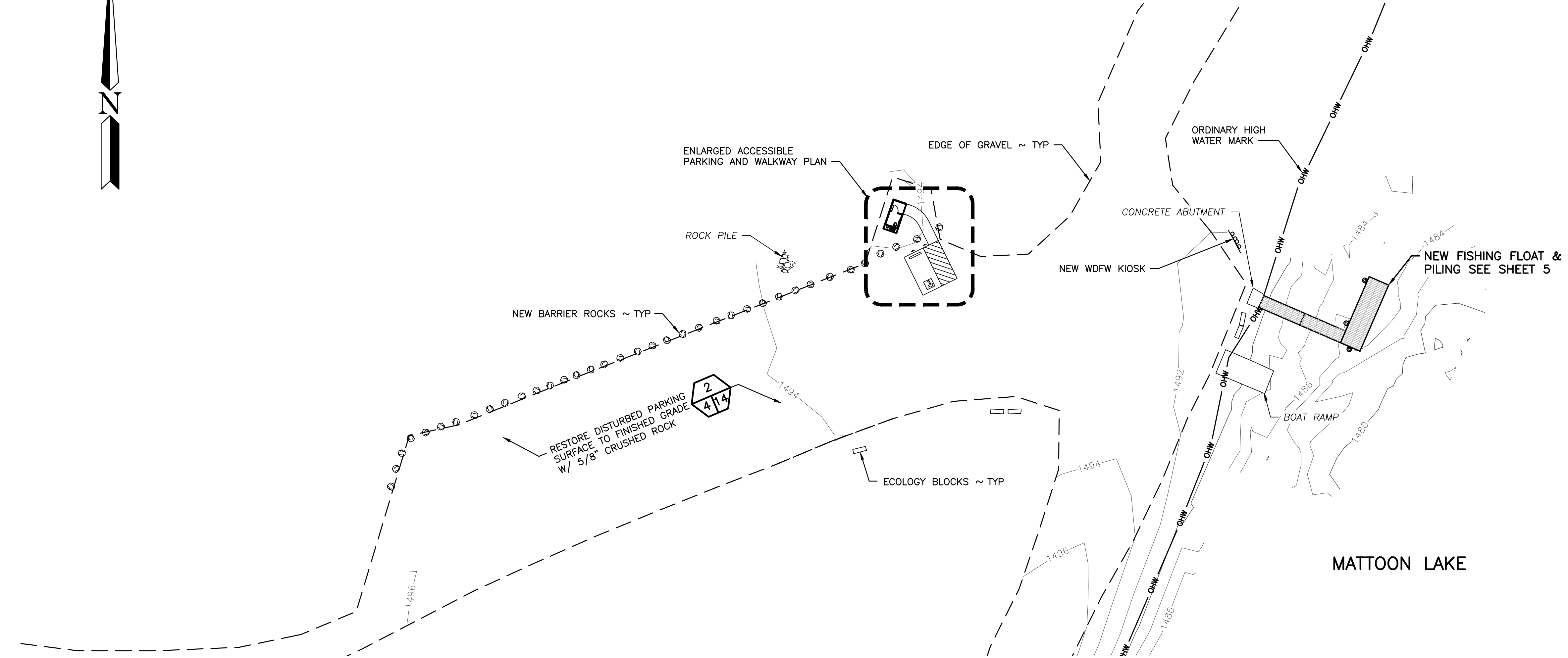
0 5 15 30 60
 1"=30' 22x34
 1"=60' 11x17



ENLARGED ACCESSIBLE PARKING AND WALKWAY PLAN

0 2 6 10 20
 1"=10' 22x34
 1"=20' 11x17

ADA CONCRETE PARKING AND WALKWAY POINTS				
POINT #	LONGITUDE	LATITUDE	ELEVATION	DESCRIPTION
9	-120.553572	046.978555	1494.77	START WALKWAY
10	-120.553565	046.978553	1494.66	START CURVE
11	-120.553551	046.978548	1494.35	CURVE MID-POINT
12	-120.553542	046.978539	1494.15	POINT OF TANGENT
13	-120.553577	046.978527	1494.34	ORIGIN OF RADIUS
14	-120.553470	046.978471	0.00	ACCESSIBLE PARKING CORNER
15	-120.553535	046.978449	0.00	ACCESSIBLE PARKING CORNER
16	-120.553570	046.978499	0.00	ACCESSIBLE PARKING CORNER
17	-120.553506	046.978520	0.00	ACCESSIBLE PARKING CORNER
18	-120.553524	046.978514	0.00	END OF WALKWAY



ENLARGED PROPOSED SITE PLAN

0 5 15 30 60
 1"=30' 22x34
 1"=60' 11x17

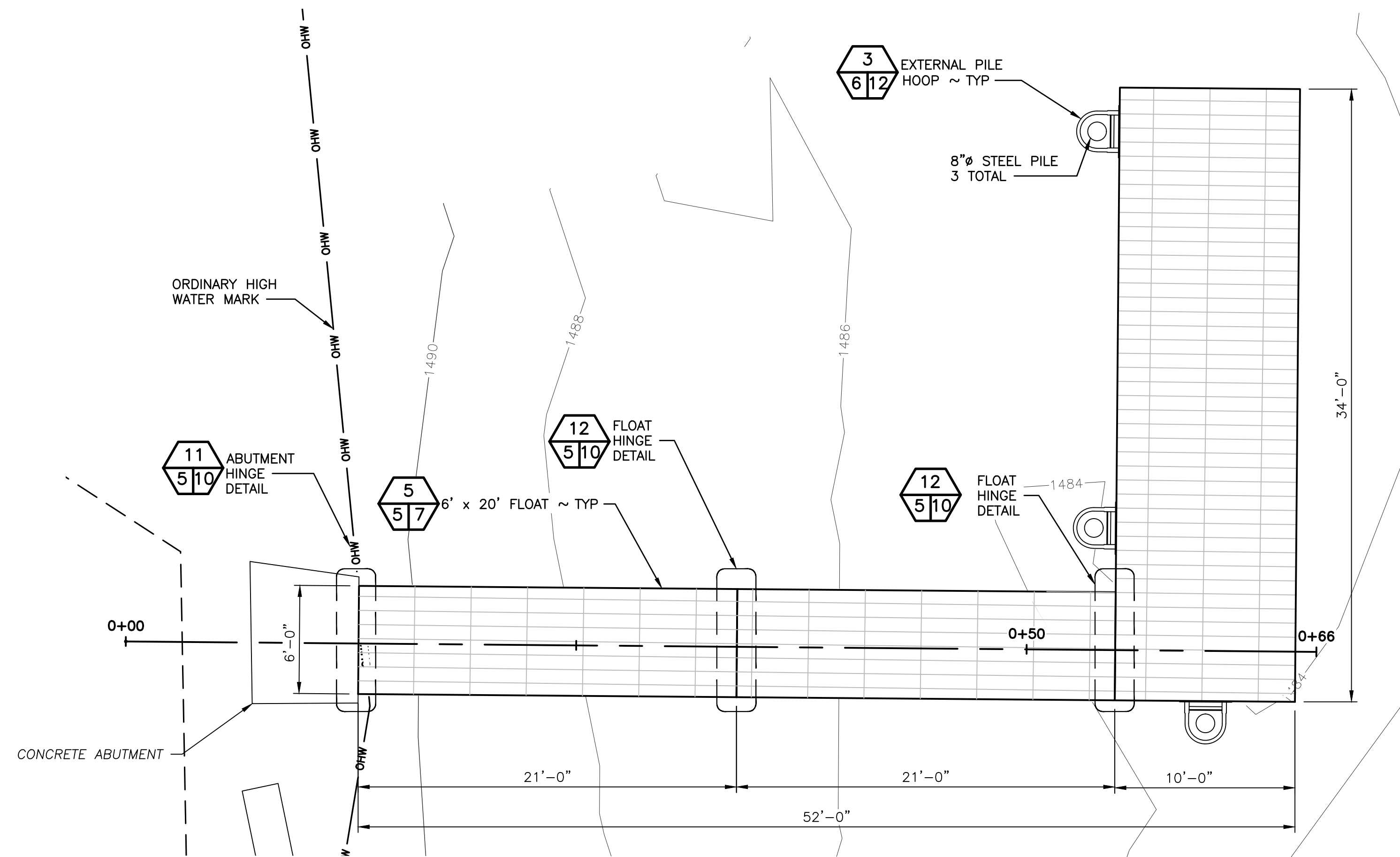
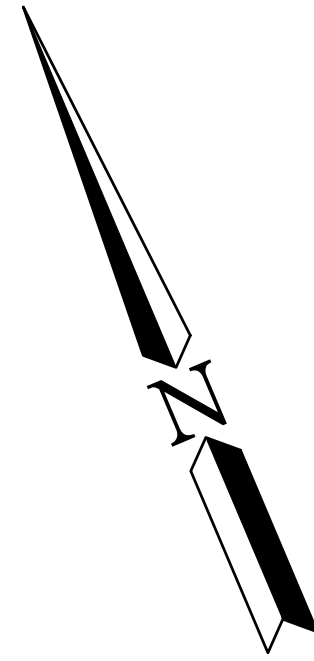
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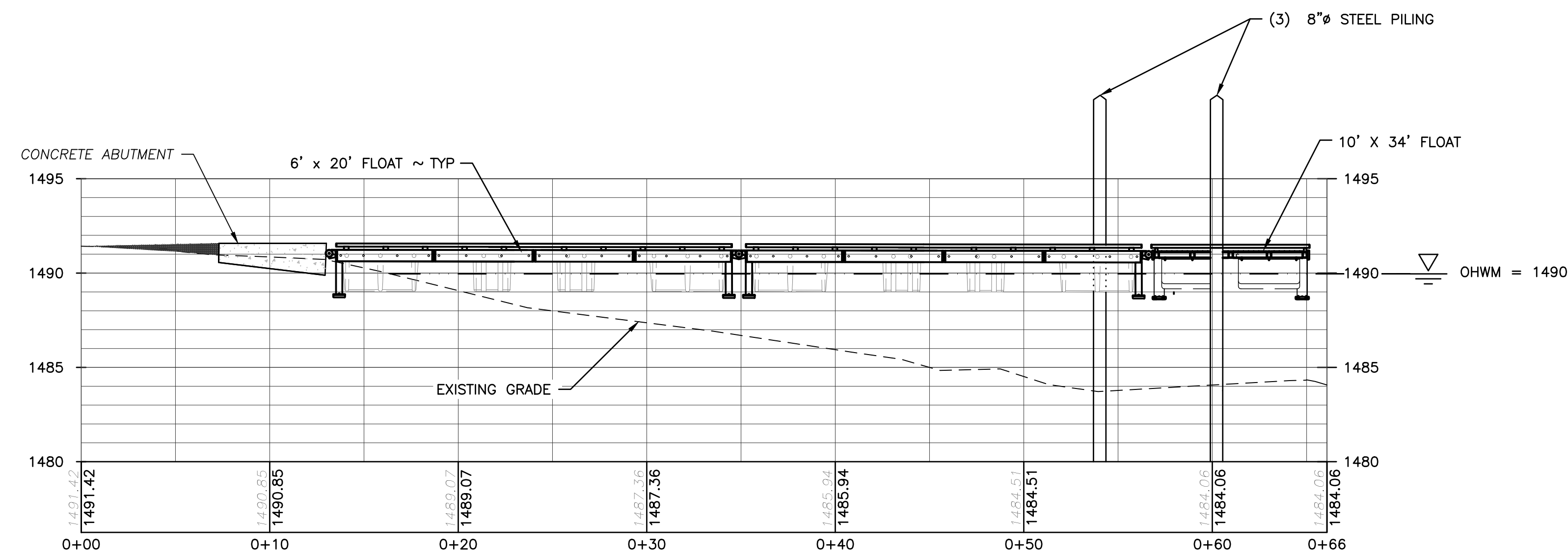
MATTOON LAKE ACCESS
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 ENLARGED PROPOSED SITE PLAN

PROJECT NO.
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 SHEET 4 OF 15



FISHING FLOAT PLAN

SCALE: 1" = 5'



ABUTMENT & FLOATS PROFILE

SCALE: 1" = 5'

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ACCESS REDEVELOPMENT
FISHING FLOAT PLAN & PROFILE

PROJECT NO.
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5 15

FLOAT NOTES

1. SITE LOCATION: SHELTERED SITES WITHIN WASHINGTON STATE. FLOATS IN AREAS WITH SEVERE WINTER STORMS WILL BE SEASONALLY REMOVED.
2. FLOTATION DRUMS AND STEEL FRAMING SUSCEPTIBLE TO DAMAGE IF LEFT IN-PLACE OVERWINTER IN AN AREA WHERE THE WATER BODY FREEZES OVER.
3. FLOATS ARE DESIGNED AS BOAT LAUNCH BOARDING FLOATS AND SHALL NOT BE USED AS MARINA FLOATS OR GANGWAY LANDING FLOATS.
4. FLOATS SHALL GROUND OUT ON AN IMPROVED SURFACE (SUCH AS CONCRETE OR GRAVEL).
5. ONE PILE PER FLOAT UNIT SHALL BE PROVIDED FOR LATERAL RESTRAINT. PILE WILL BE LOCATED AT MID-LENGTH OF FLOAT UNIT.
6. ABUTMENT HINGE CONNECTION SHALL BE INSTALLED WITH CARE, MAKING SURE IT ALIGNS CORRECTLY WITH THE PILING.
7. FLOATS AND PILING SHALL BE INSTALLED SUCH THAT THE FLOATS DO NOT BIND ON PILE HOOPS FOR THE FULL DESIGN RANGE OF WATER ELEVATIONS.
8. PILE HOOPS NOT DESIGNED TO BE USED AS A DRIVING TEMPLATE. CONTRACTOR MAY USE THE PILE HOOPS AS A DRIVING TEMPLATE AT THEIR OWN RISK, AND ANY DAMAGE TO THE FLOATS WILL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
9. THREADED AND TAPPED HOLES SHALL BE SIZED WITH CONSIDERATION FOR THE THICKNESS OF THE GALVANIZED COATING.

LIFTING OF FLOAT MODULES

FLOAT MAY BE LIFTED FROM DESIGNATED LOCATIONS ALONG BULLRAIL. MAKE SURE BULLRAIL AND SCUPPER BLOCKS ARE NOT SUBJECTED TO BENDING LOADS DURING LIFTING.

ALWAYS FULLY VISUALLY INSPECT THE BULLRAIL AND SCUPPER BLOCKS FOR DAMAGE PRIOR TO USING THE BULLRAIL FOR LIFTING. IT IS FEASIBLE THAT THE BULLRAIL COULD BE DAMAGED DURING FACILITY USE, COMPROMISING THE ABILITY OF THE BULLRAILS TO RESIST LIFTING LOADS. NOT ALL DAMAGE WILL BE READILY VISUALLY APPERANT. RISK OF BULLRAIL FAILURE DURING LIFTING IS ELIMINATED BY STRAPPING AROUND THE ENTIRE FLOAT TO FACILITATE LIFTING.

NEVER LIFT THE FLOAT OVER PERSONNEL OR EQUIPMENT, AND KEEP THE FLOAT AS CLOSE TO THE GROUND AS POSSIBLE WHILE HANDLING.

DESIGN CRITERIA

1. DESIGN WAVE HEIGHT = 2.5 FEET.
2. DESIGN WAVE PERIOD = 3 SECONDS
3. LIVE LOAD = 30 PSF (FOR STRUCTURAL FRAMING, FLOATS GROUNDED ON RAMP)
4. LIVE LOAD = ## PSF FOR BUOYANCY AND FLOAT STABILITY
5. EXPOSURE: SITE IS TO BE FAIRLY SHELTERED FROM WIND/WAVES/CURRENTS.
6. SEASONAL REMOVAL: IF REQUIRED, FLOATS WILL BE SEASONALLY REMOVED TO PREVENT EXPOSURE TO SEVERE WIND/WAVES.
7. ICE: FLOATS ARE NOT DESIGNED TO RESIST ICE LOADS, AND DAMAGE TO IN-WATER COMPONENTS WOULD LIKELY OCCUR IF THEY WERE LEFT IN-PLACE THROUGH THE WINTER IN A WATER BODY THAT WILL FREEZE OVER.
8. CURRENT VELOCITY: 1.5 FEET PER SECOND
9. VESSEL: 26' TRAILERABLE RECREATIONAL VESSEL
10. DESIGN HIGH WATER = ##' [DATUM]
11. DESIGN LOW WATER = ##' [DATUM]

IN ADDITION TO STRUCTURAL WELDS SHOWN, PROVIDE A MINIMUM 1/8" FILLET OR EQUIVALENT GROOVE WELD AS REQUIRED TO COMPLETELY SEAL ALL EDGES OF CONTACTING SURFACES PRIOR TO GALVANIZING.

MATERIALS

A SUMMARY OF PROJECT MATERIALS IS PROVIDED BELOW. FOR DETAILED MATERIAL REQUIREMENTS SEE PROJECT SPECIFICATIONS.

1. STEEL SHAPES
CHANNEL: ASTM A36
HSS: ASTM A500 Gr. B 46 ksi
PIPE: ASTM A500 MIN 46 ksi
ANGLE: ASTM A36
PLATE: ASTM A36
2. MISC PRODUCTS

FIBERGLASS GRATING: 1" FIBERGRATE ECOGRATE 62, LIGHT GRAY, INTEGRALLY APPLIED STANDARD QUARTZ GRIT SURFACE.

UHMW: TIVAR UV RESISTANT OR APPROVED EQUAL WITH EQUAL OR GREATER TENSILE STRENGTH (5,800 psi), AND NO BREAK FOR ASTM D256 TYPE A TEST, AND 47.6 LB-FT FOR A DOUBLE-NOTCH TEST. COLOR TO BE BLACK UNLESS OTHERWISE NOTED.

RUBBER HINGE BUSHINGS: HIGH-QUALITY UHMW

HDPE RUB STRIP: BEDFORD FIBERFORCE (MOLDED), COLOR LIGHT GRAY, OR APPROVED EQUAL

HDPE PILE HOOP PERIMETER: BEDFORD SELECTFORCE (EXTRUDED), COLOR YELLOW, OR APPROVED EQUAL

BOLTS: ASTM A307, HOT DIP GALVANIZED

HINGE PIN, END PLATE AND COTTER PIN: 316SS
3. COATINGS: FLOAT FRAME IS TO BE HOT DIP GALVANIZED AFTER FABRICATION USING A PROGRESSIVE DIP.

GALVANIZING

1. HOT-STICK REPAIR ONLY
2. BRUSH ALL THREADED AND TAPPED HOLES AFTER HOT-DIP-GALVANIZING WHILE THE FLOAT FRAME IS STILL HOT. HOLES SHALL BE TESTED TO ENSURE COMPATIBILITY WITH THE SPECIFIED BOLTS AT GALVANIZER PRIOR TO SHIPPING FLOAT FRAME. THREADED AND TAPPED HOLES EXIST AT THE FOLLOWING LOCATIONS:

A) GROUNDING SHOE BASE PLATES
B) OPTIONAL GRAB BAR
C) YELLOW HDPE AROUND INTERNAL PILE HOOP
D) RUB STRIP WITHIN 5 FEET OF INTERNAL PILE HOOP

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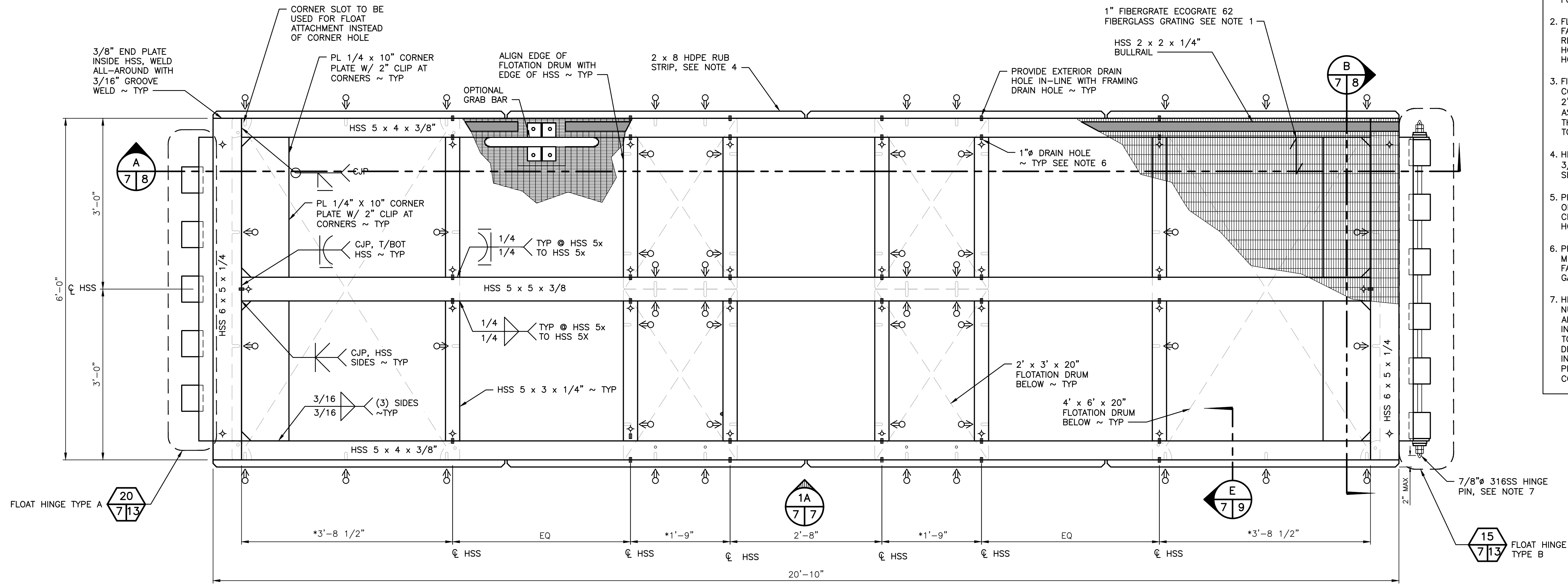
**MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
GENERAL NOTES**

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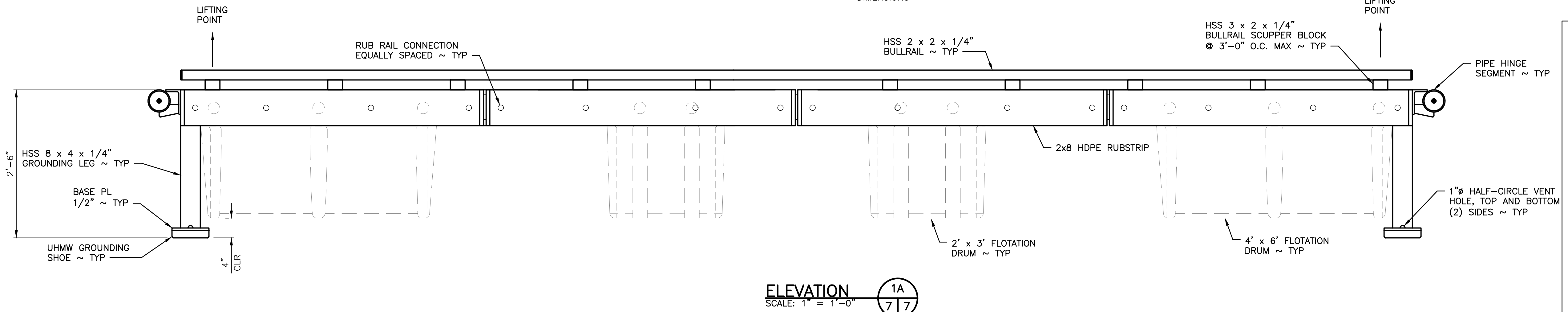
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- NOTES:**
1. SECURE GRATING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. EACH GRATING PANEL IS TO BE FULLY SUPPORTED ON ALL FOUR EDGES.
 2. FLOAT FRAME TO BE HOT DIP GALVANIZED AFTER FABRICATION. CONTRACTOR TO PROVIDE REQUIRED DRAIN HOLES. PROPOSED DRAIN HOLE LOCATIONS ARE SHOWN. SHOW ALL DRAIN HOLE LOCATIONS IN FLOAT SHOP DRAWINGS.
 3. FIELD-LEVEL FLOAT WITH COUNTERWEIGHTS. CONTRACTOR TO PROVIDE (6) PL 1/2" x 4" x 2'-0" PER FLOAT MODULE. COUNTERWEIGHT ASSEMBLY SHALL BE SECURED WITH FOUR 3/4" THRU BOLTS. PROVIDE RECESS IN RUB STRIP TO ACCOMMODATE THRU BOLT HEAD.
 4. HDPE RUB STRIP, MAX 5'-6" LENGTH, PROVIDE 3/4" CHAMFER AT ENDS, 1/2" GAP BETWEEN SEGMENTS, COLOR LIGHT GRAY.
 5. PROVIDE 3/8" WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HORIZONTAL CROSS-BEAM TO PREVENT MEMBERS FROM HOLDING WATER.
 6. PROVIDE 1" VENT HOLES IN SIDES OF HSS MEMBERS INSIDE OF CONNECTING TUBE TO FACILITATE COMPLETE DRAINING DURING HOT DIP GALVANIZING, CENTERED IN HSS 5x.
 7. HINGE PIN TO BE SECURED WITH A DOUBLE-JAM NUT (DO NOT OVER-TIGHTEN, PREVENT GALLING), AND SHALL BE FREE TO ROTATE AFTER INSTALLATION. THE END OF THE HINGE PIN IS TO HAVE A 30 DEGREE BEVEL, WITH A 1/4" DIAMETER ROUNDED END TO FACILITATE INSERTION INTO THE HINGE BUSHINGS. HINGE PIN IS TO HAVE A HOLE AND 1/4" 316SS COTTER PIN EACH END.



6' X 20' FLOAT PLAN
 SCALE: 1" = 1'-0"
 NOTE: BULLRAIL, SCUPPER BLOCKS, WEEP HOLES, GROUNDING LEGS NOT SHOWN FOR CLARITY.
 * DIMENSION BASED ON FLOAT DRUM MANUFACTURER-PROVIDED INFORMATION CONTRACTOR TO VERIFY AS-BUILT FLOAT DRUM DIMENSIONS



LEGEND

- 2-3/8" DRILLED (NOT FLAME CUT) BOLT ACCESS OR VENT HOLE CENTERED VERTICALLY IN HSS 5x. PROVIDE MINIMUM 5" AWAY FROM WELDED CONNECTIONS. SMOOTH ROUGH EDGES PRIOR TO GALVANIZING.
- 1" VENT HOLE, SEE NOTE 6
- 3/8" WEEP HOLE, SEE NOTE 5

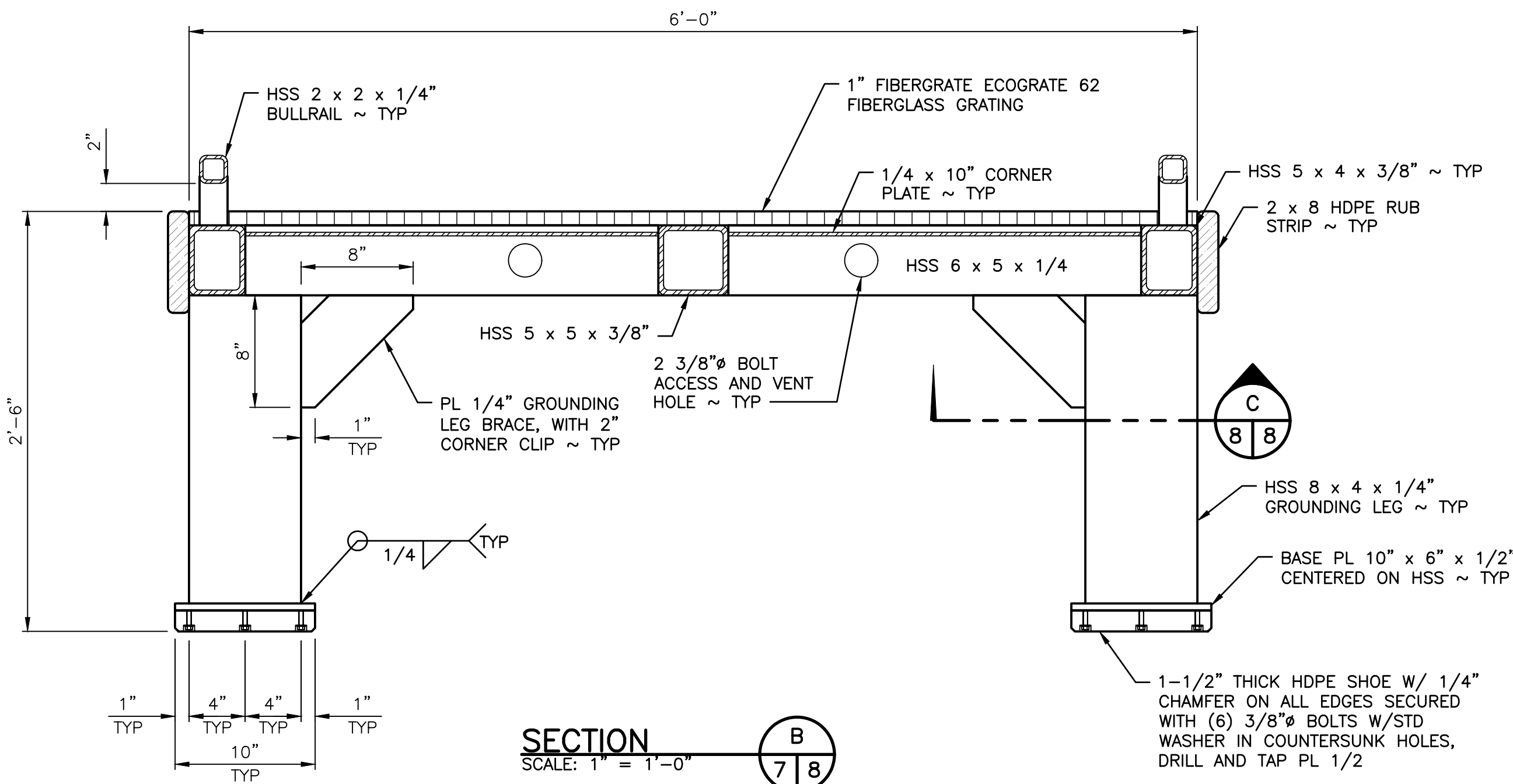
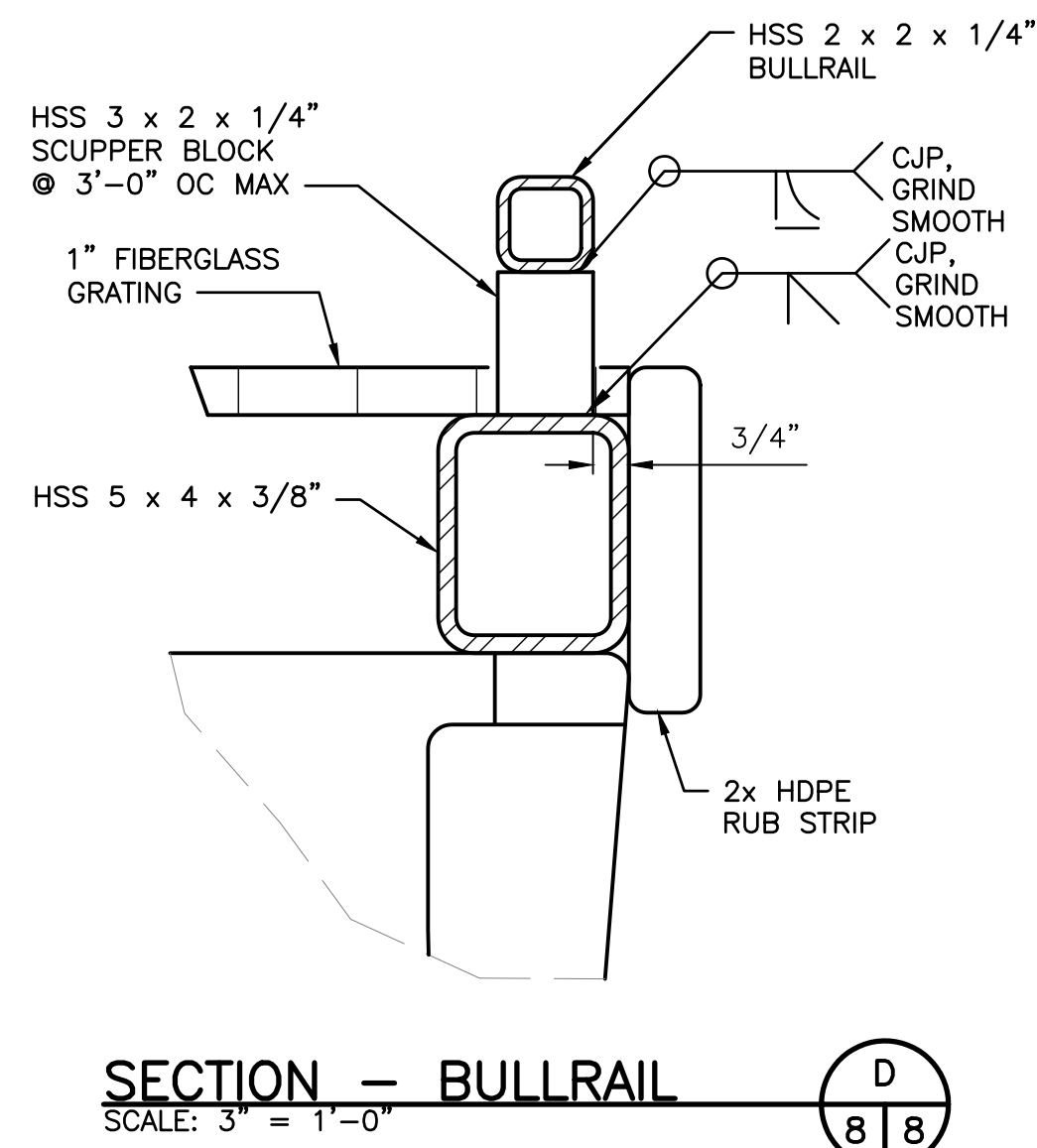
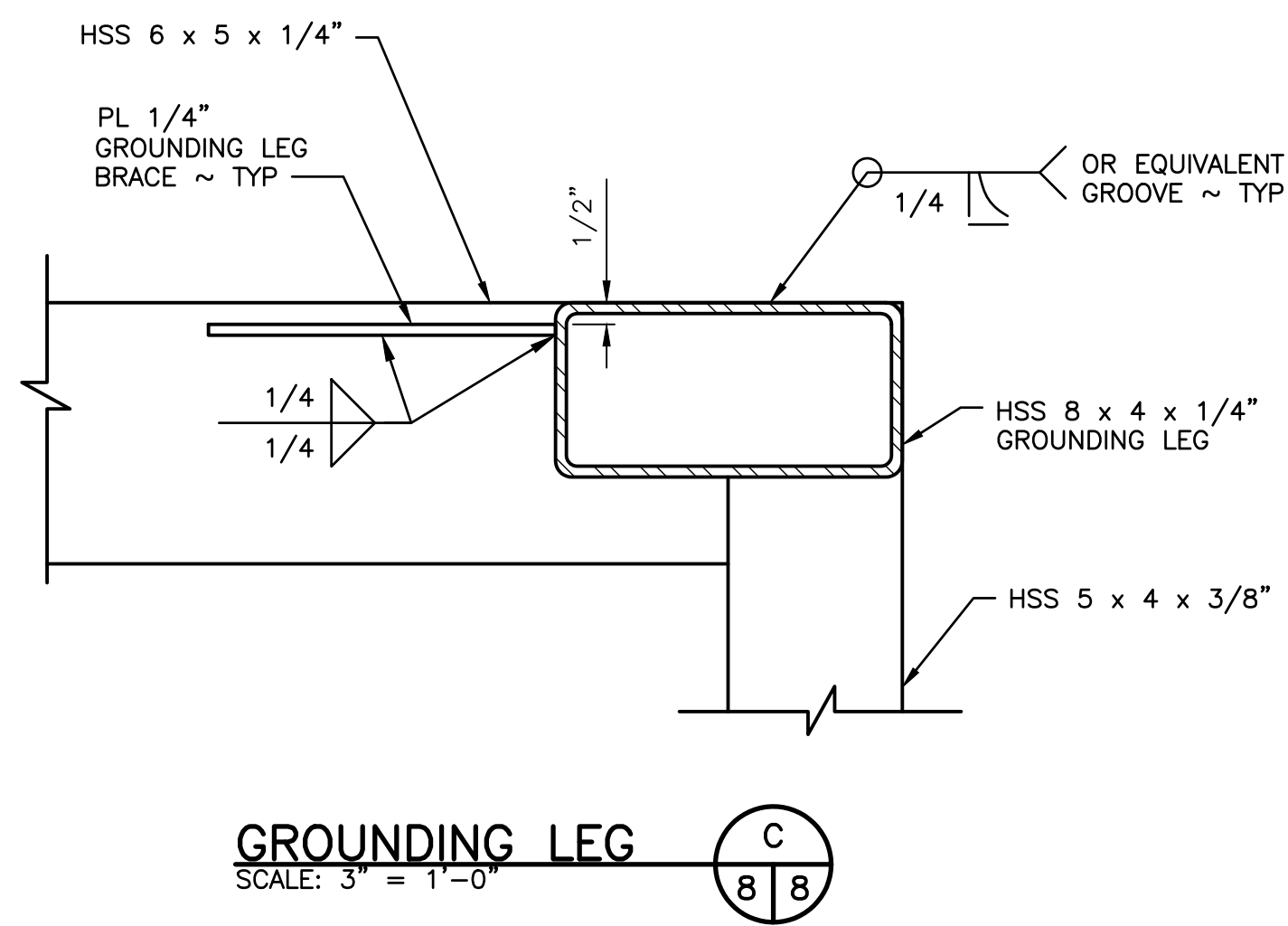
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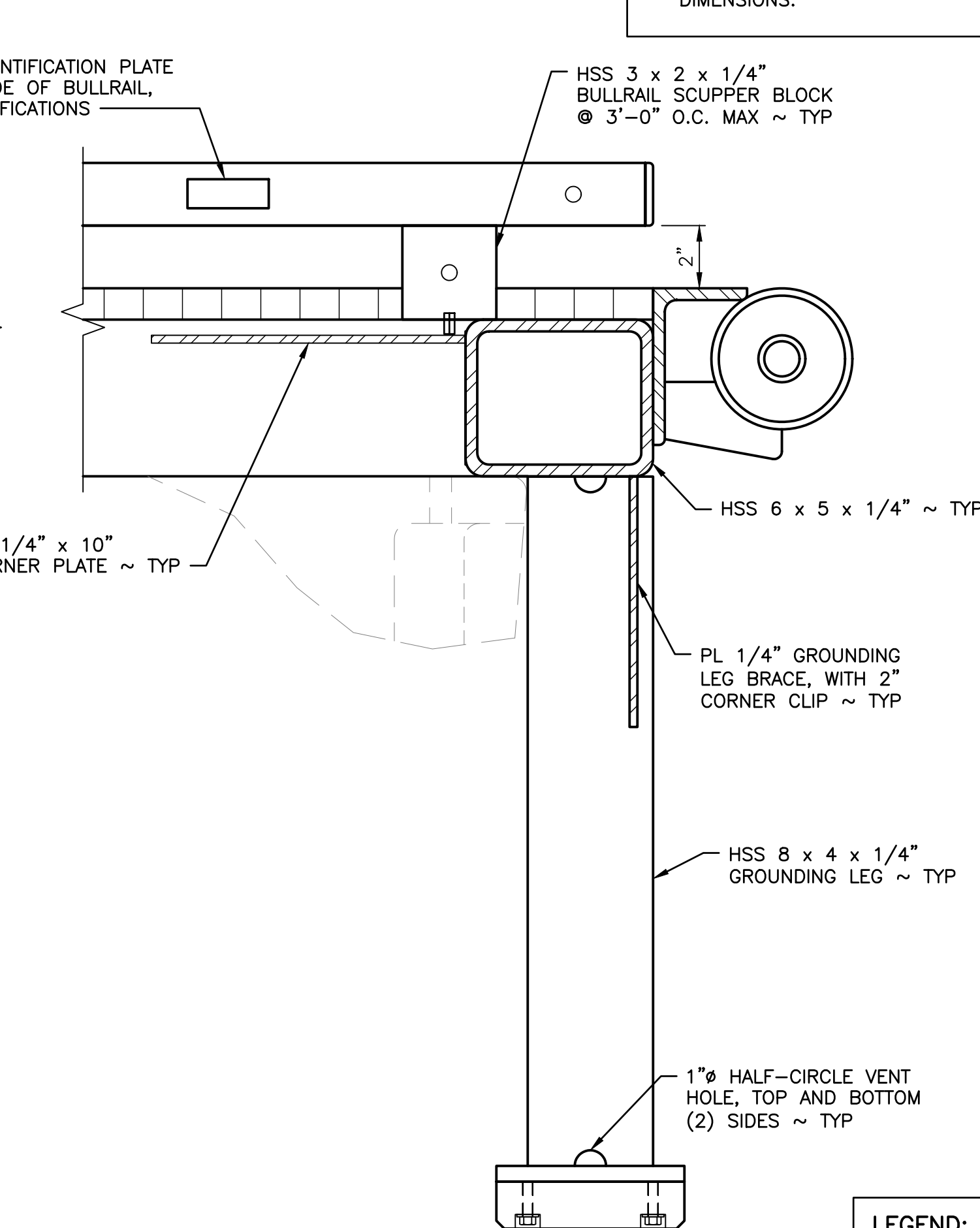
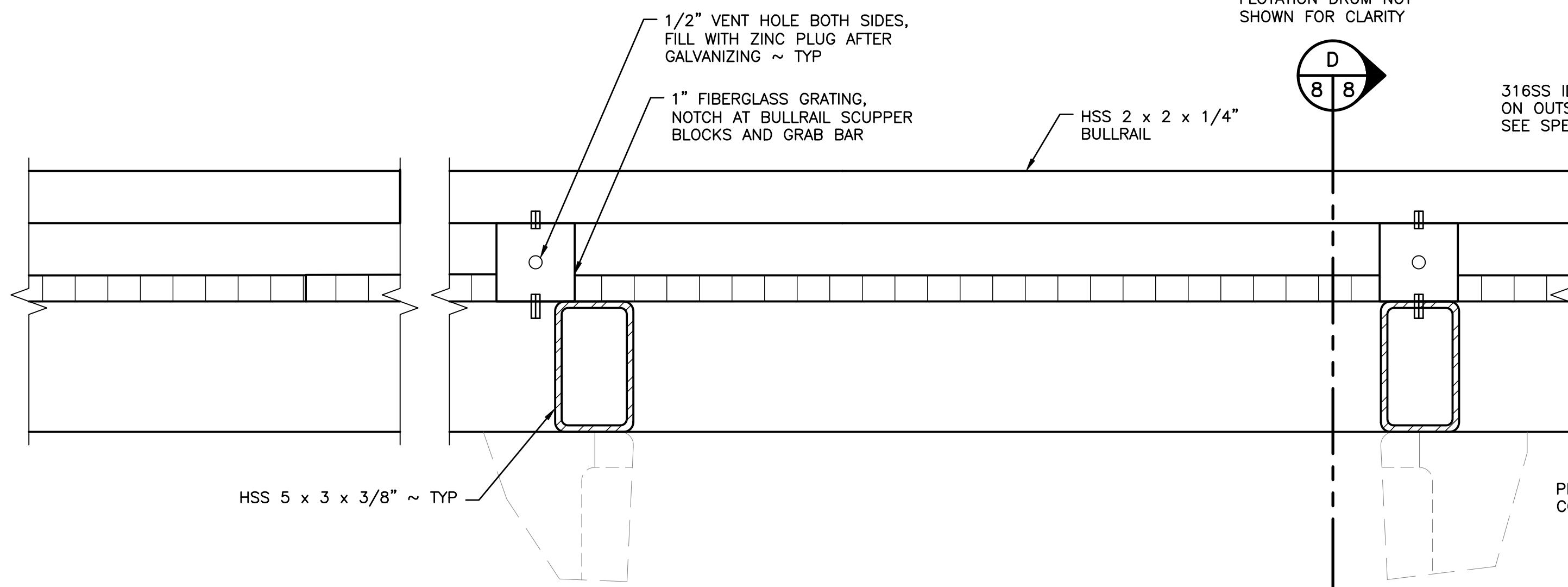
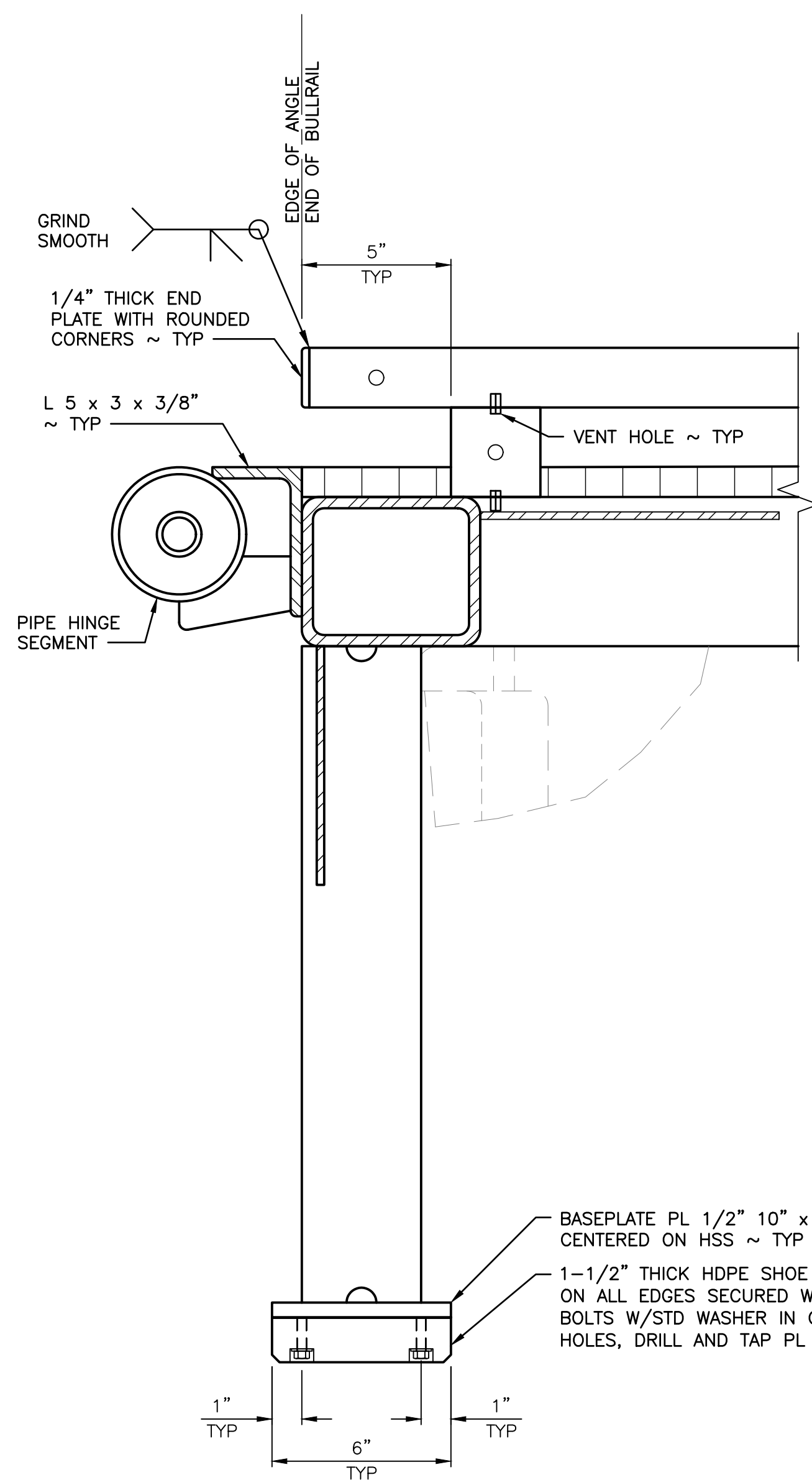
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MATTOON LAKE ACCESS
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 6' X 20' FLOAT PLAN AND ELEVATION

PROJECT NO. KS:A278:2024-1
 SHEET 7 OF 15



- NOTES:**
1. SECURE GRATING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. EACH GRATING PANEL IS TO BE FULLY SUPPORTED ON ALL FOUR EDGES.
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 3. RUB STRIP 5'-6" MAX LENGTH, PROVIDE 3/4" CHAMFER AT ENDS, 1/2" GAP BETWEEN SEGMENTS, COLOR LIGHT GRAY.
 4. PROVIDE 3/8" WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HORIZONTAL CROSS-BEAM TO PREVENT MEMBERS FROM HOLDING WATER.
 5. PROVIDE 1" DRAIN HOLES IN SIDES OF HSS MEMBERS INSIDE OF CONNECTING TUBE TO FACILITATE COMPLETE DRAINING DURING HOT DIP GALVANIZING, CENTERED IN HSS 5x.
 6. HINGE PIN TO BE SECURED WITH A DOUBLE-JAM NUT (DO NOT OVER-TIGHTEN, PREVENT GALLING), AND SHALL BE FREE TO ROTATE AFTER INSTALLATION. THE END OF THE HINGE PIN IS TO HAVE A 30 DEGREE BEVEL, WITH A 1/4" DIAMETER ROUNDED END TO FACILITATE INSERTION INTO THE HINGE BUSHINGS. HINGE PIN IS TO HAVE A HOLE AND 1/4" 316SS COTTER PIN EACH END.
 7. PROVIDE 2 3/8" DRILLED (NOT FLAME CUT) CENTERED VERTICALLY IN HSS 5x. PROVIDE MINIMUM 5" AWAY FROM WELDED CONNECTIONS OR PRE FLOAT DRUM. SMOOTH ALL EDGES PRIOR TO GALVANIZING.
 8. DIMENSIONS BASED ON FLOAT DRUM MANUFACTURER-PROVIDED INFORMATION CONTRACTOR TO VERIFY AS-BUILT FLOAT DRUM DIMENSIONS.



LEGEND:
□ 1" DRAIN HOLE, SEE NOTE 6 ON SHEET 3

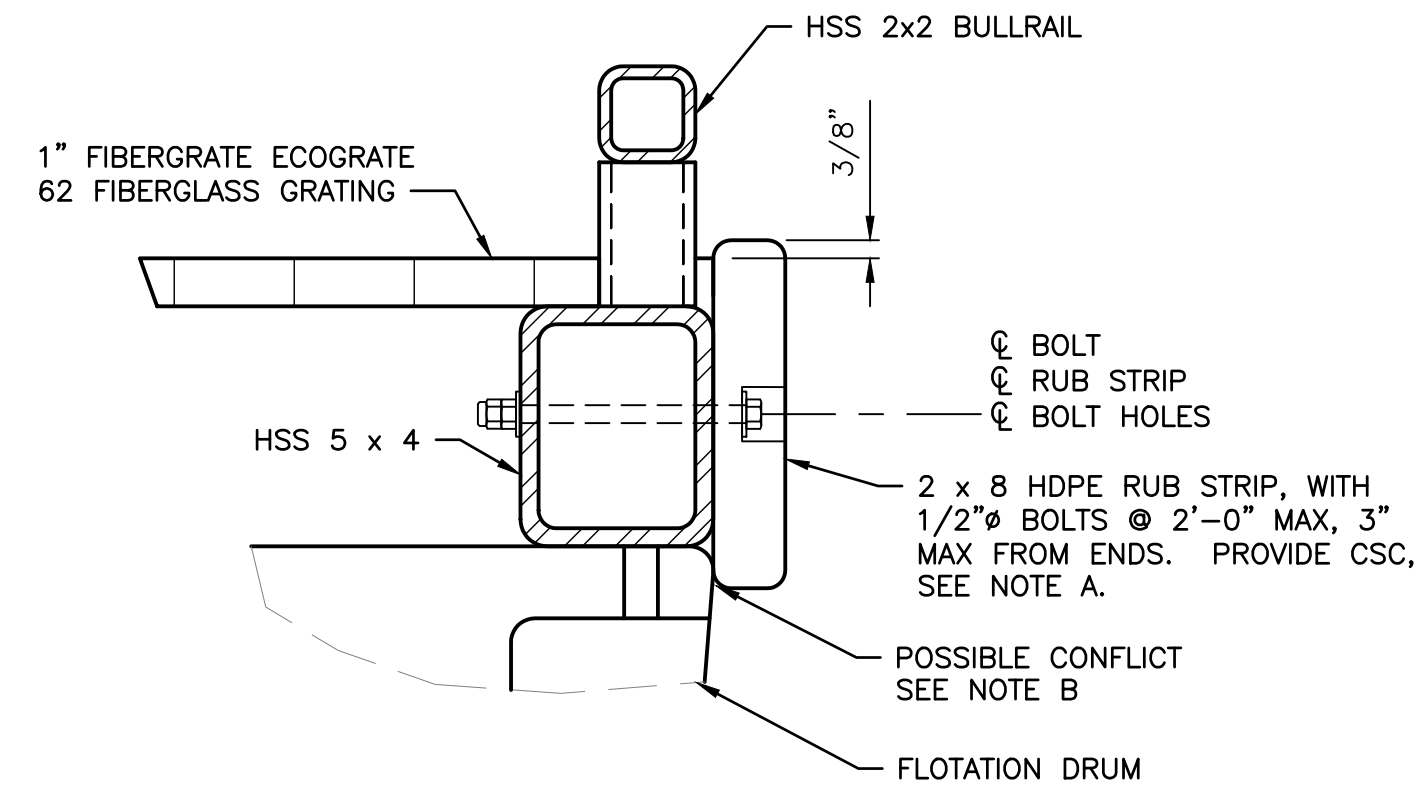
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MATTOON LAKE ACCESS
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6' X 20' FLOAT SECTIONS AND DETAILS

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SHEET 8 OF 15

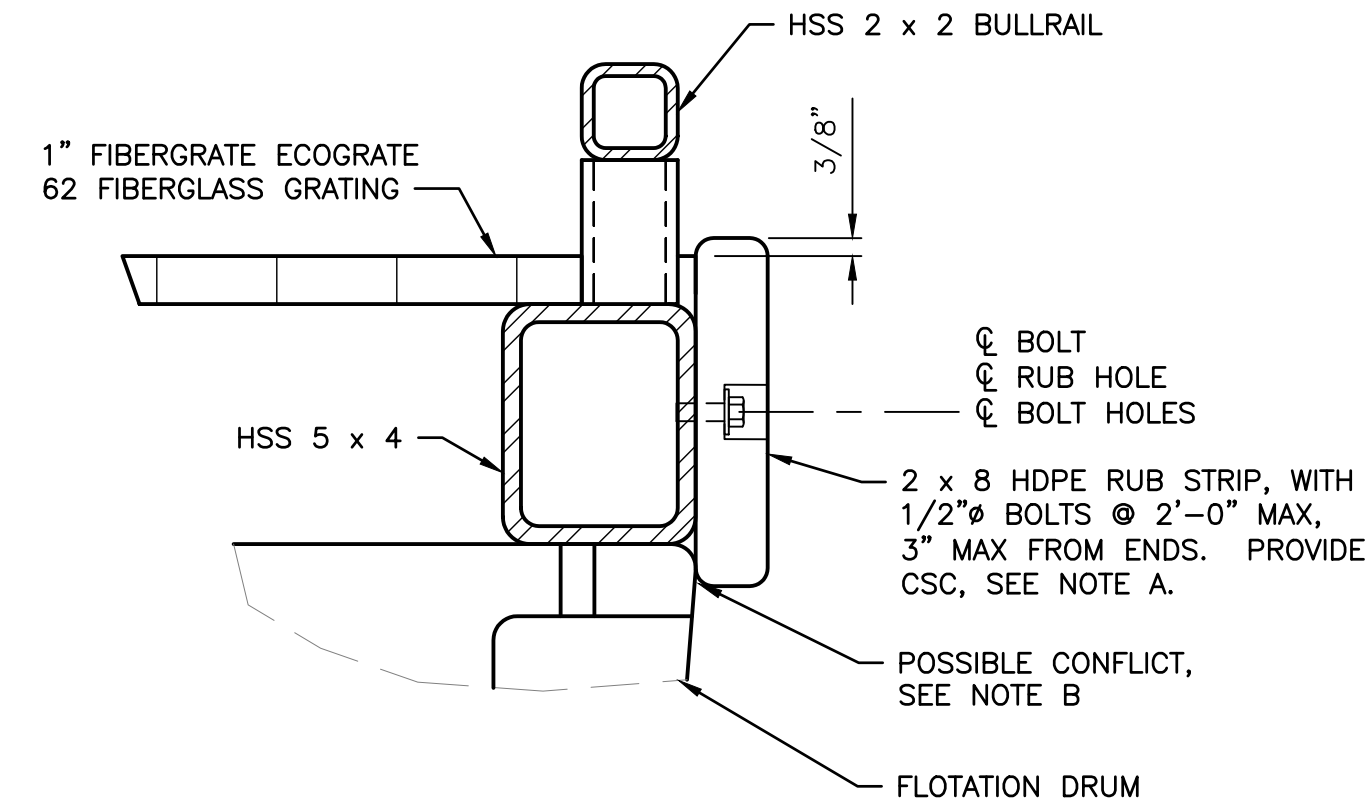


TYPICAL RUB STRIP

SCALE: 3" = 1'-0"

NOTES:

- A. INSTALL BOLTS IN 5/8" HOLES IN HSS AND RUB STRIP. COUNTER SINK RUB STRIP TO PROVIDE A MINIMUM 3/8" WEARING SURFACE. PROVIDE BOLTS W/ DOUBLE NUT & WASHERS.
- B. IF FLOAT DRUM PROTRUDES BEYOND HSS DUE TO FABRICATION TOLERANCES, NOTCH RUB STRIP TO AVOID INTERFERENCE.
- C. AT FLOAT END, PROVIDE RUB STRIP INSTEAD OF HINGE ASSEMBLY.

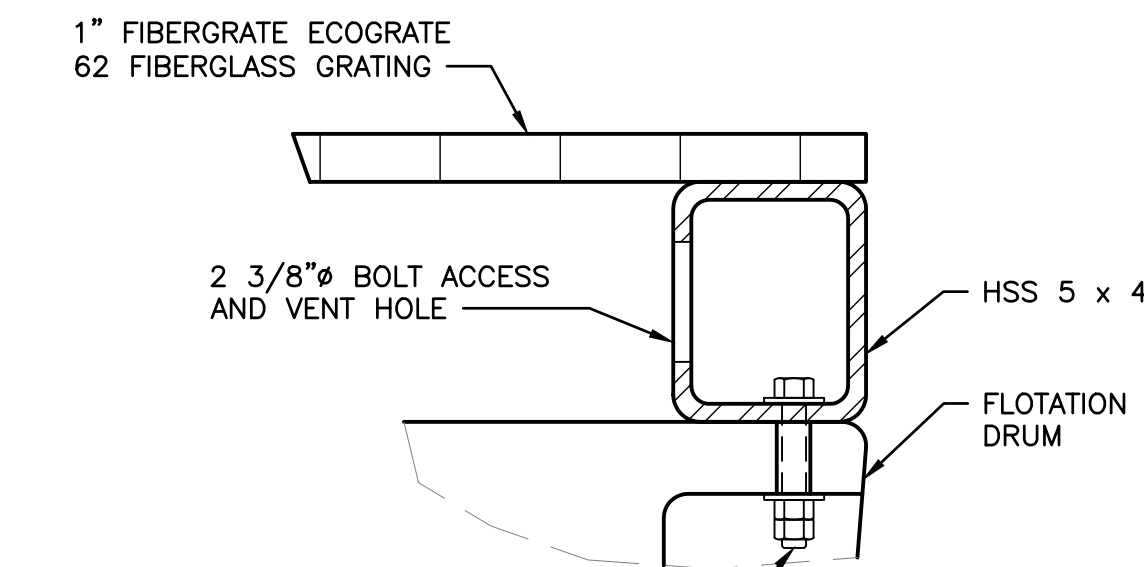


RUB STRIP WITHIN 5' OF INTERIOR PILE HOOP

SCALE: 3" = 1'-0"

NOTES:

- A. INSTALL BOLTS IN 5/8" HOLES IN RUB STRIP INTO DRILLED/TAPPED HOLES IN HSS. COUNTER SINK DEPTH AND BOLT LENGTH TO BE SELECTED TO AVOID PROTRUSION OF BOLT INTO INSIDE OF HSS AFTER TIGHTENING.
- B. IF FLOAT DRUM PROTRUDES BEYOND HSS 5x4 DUE TO FABRICATION TOLERANCES, NOTCH RUB STRIP TO AVOID INTERFERENCE.



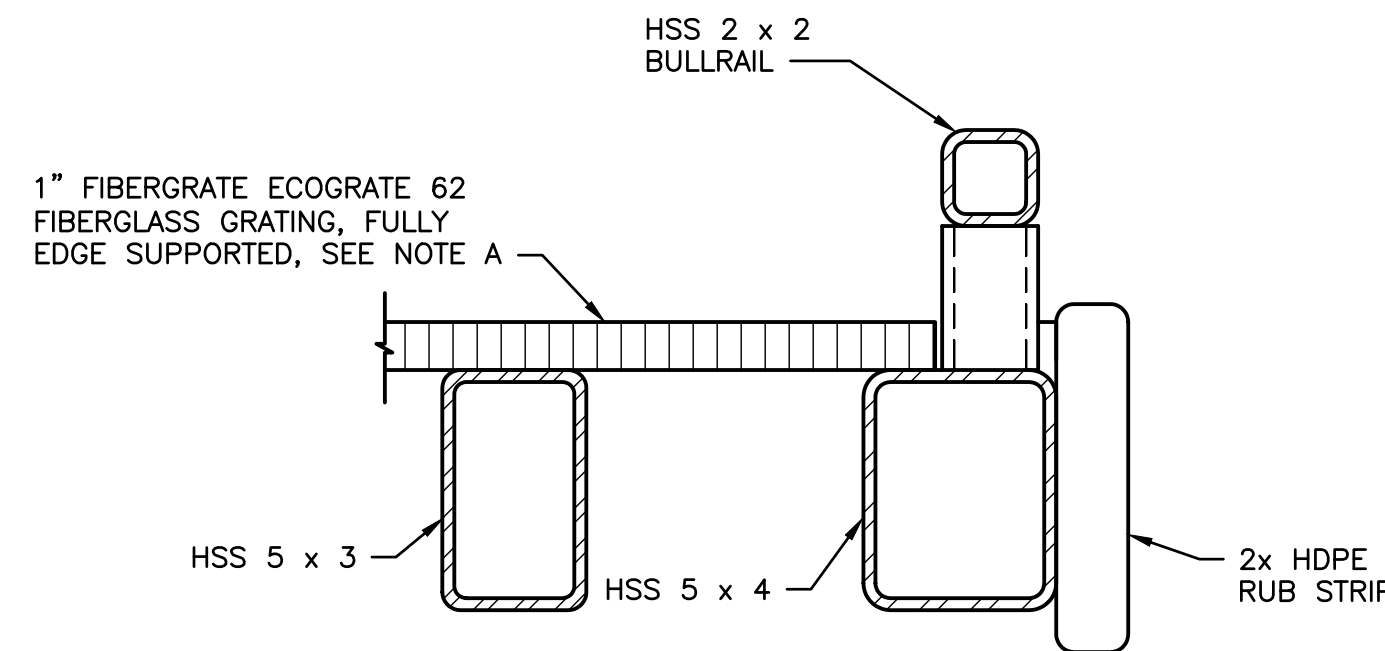
1/2" HEAVY HEX BOLT W/ WASHER EACH END, & DOUBLE NUT ON BOTTOM. PROVIDE 5/8" DRILLED HOLE PRIOR TO GALVANIZING, SEE NOTE A.

FLOAT DRUM

SCALE: 3" = 1'-0"

NOTES:

- A. DUE TO FABRICATION TOLERANCES OF FLOTATION DRUMS IT IS RECOMMENDED THAT HOLES ARE DRILLED BASED ON AS-BUILT FLOTATION-DRUM DIMENSIONS.



GRATING ATTACHMENT

NOT SCALE

- NOTE:** WITHIN 5' OF INTERNAL PILE HOOP, SCREWS ATTACHING THE GRATING SHALL NOT EXTEND MORE THAN 1/8" INTO HSS 5x4 EDGE BEAM AFTER TIGHTENING TO AVOID INTERFERENCE WITH PILE GATE. FOR THE REMAINDER OF GRATING ATTACHMENT LOCATIONS, THE SCREWS ATTACHING THE GRATING MAY PROTRUDE FURTHER INTO HSS 5x4 EDGE BEAM. GRATING IS TO BE FULLY EDGE SUPPORTED WITH A MINIMUM OF 1" BEARING ON SUPPORTS

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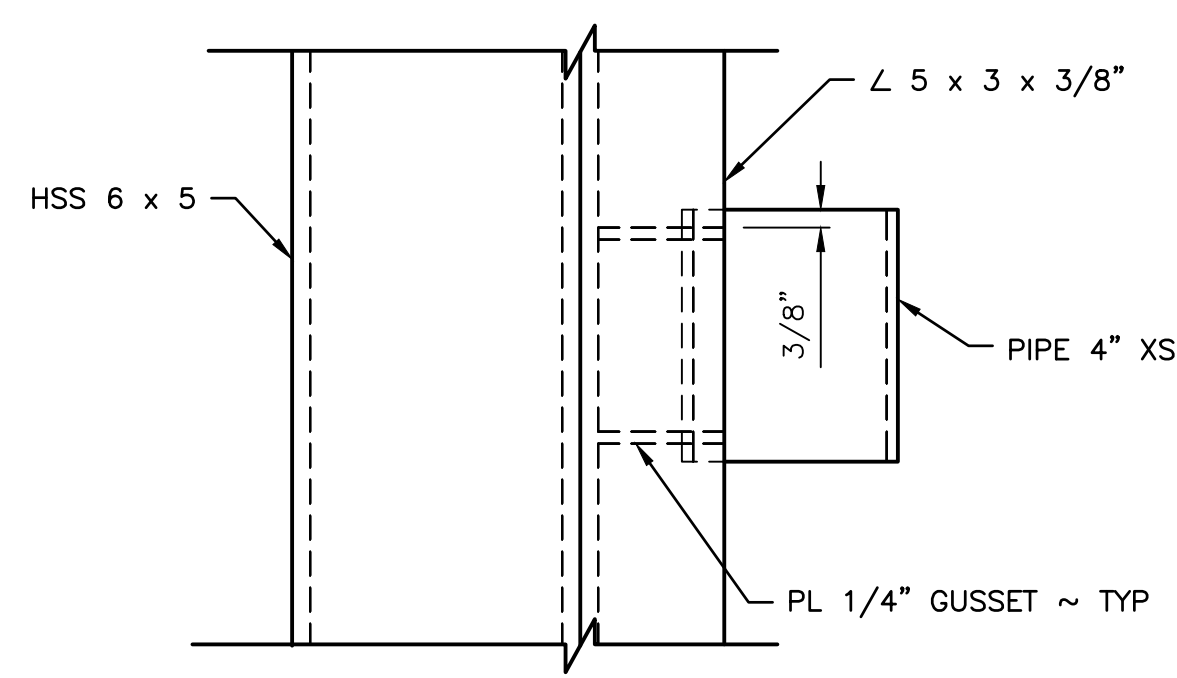
WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE:	DESIGNED BY J. HANSEN	
PROGRAM	DATE:	CHECKED BY S. GOODWIN	
		DRAWN BY SS, SG	
		DATE 6/13/2024	

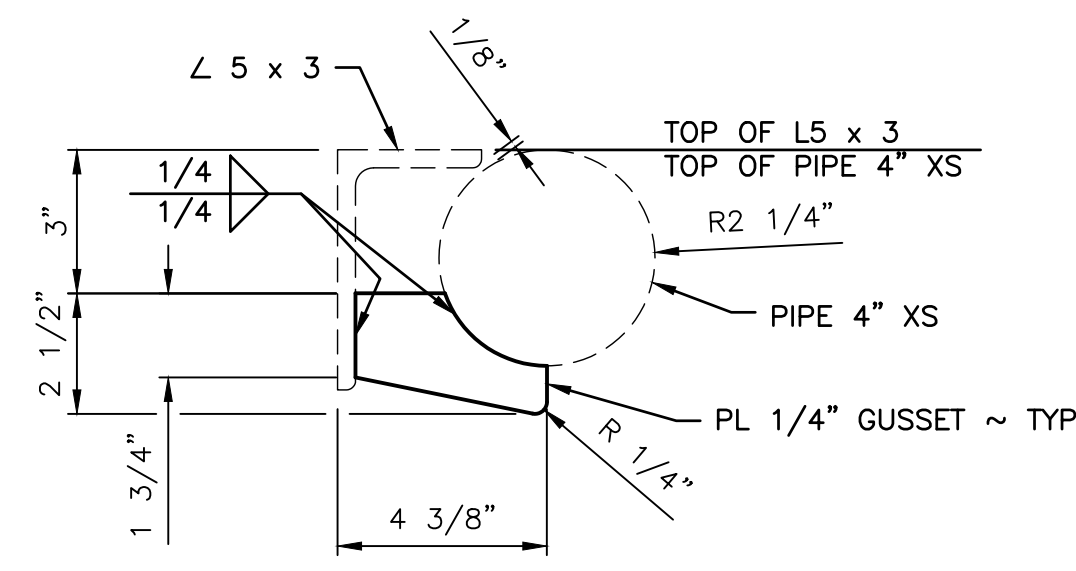
MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
6' X 20' MISCELLANEOUS DETAILS

PROJECT NO.
KS:A278:2024-1

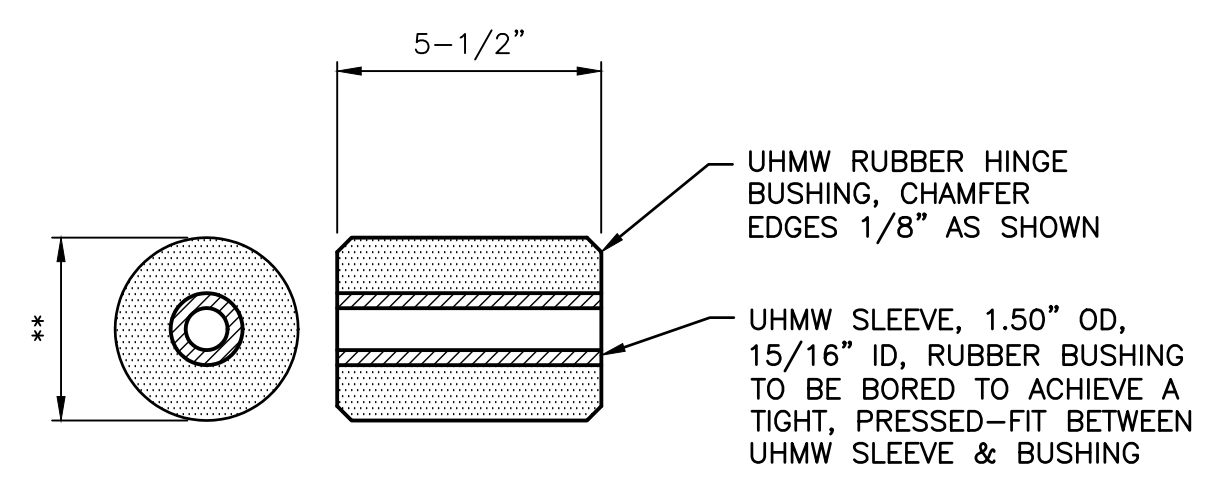
SHEET OF
9 15



HINGE SEGMENT
SCALE: 3" = 1'-0"



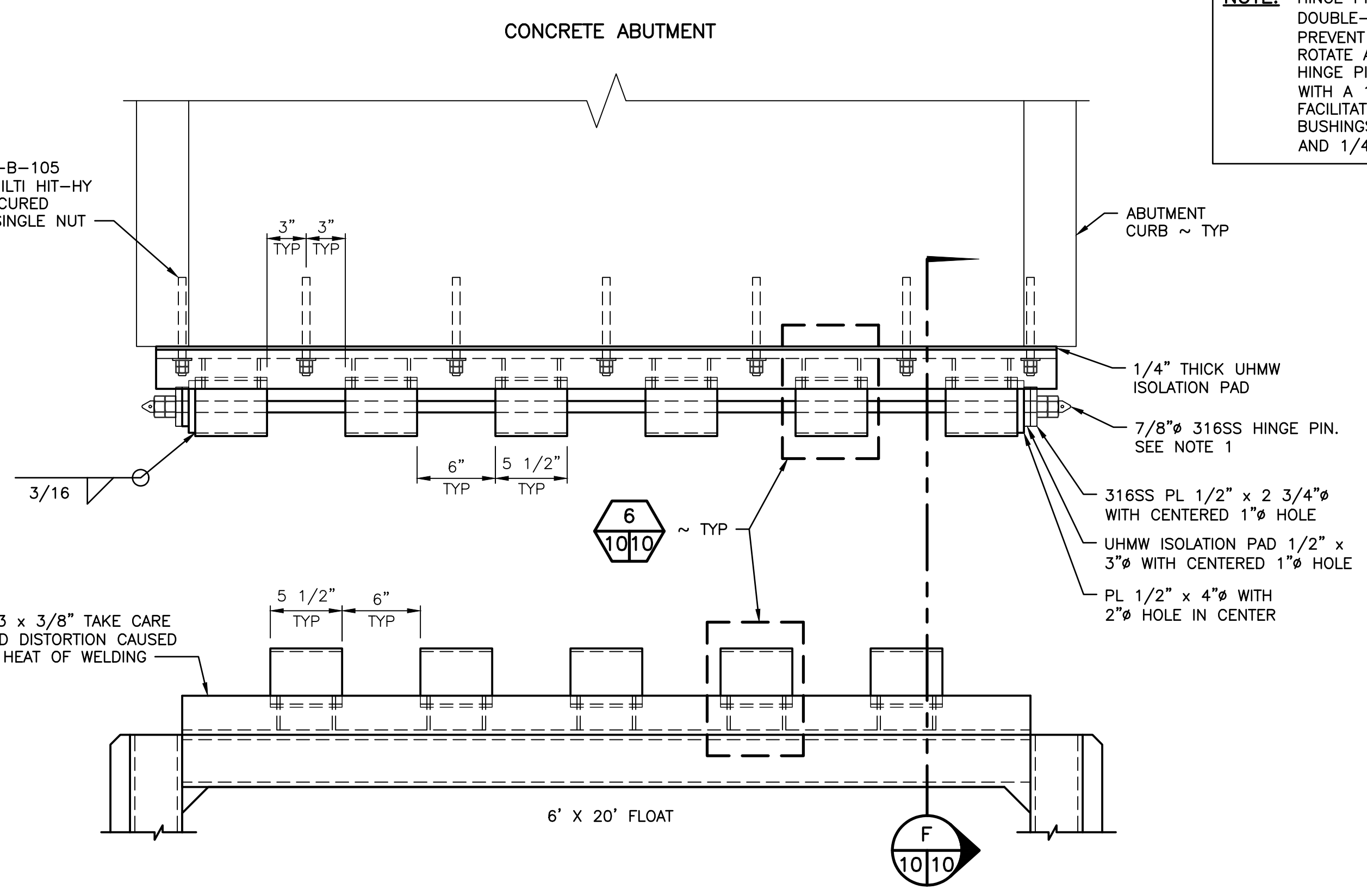
HINGE GUSSET PLATE
SCALE: 3" = 1'-0"



HINGE BUSHING
NOT TO SCALE

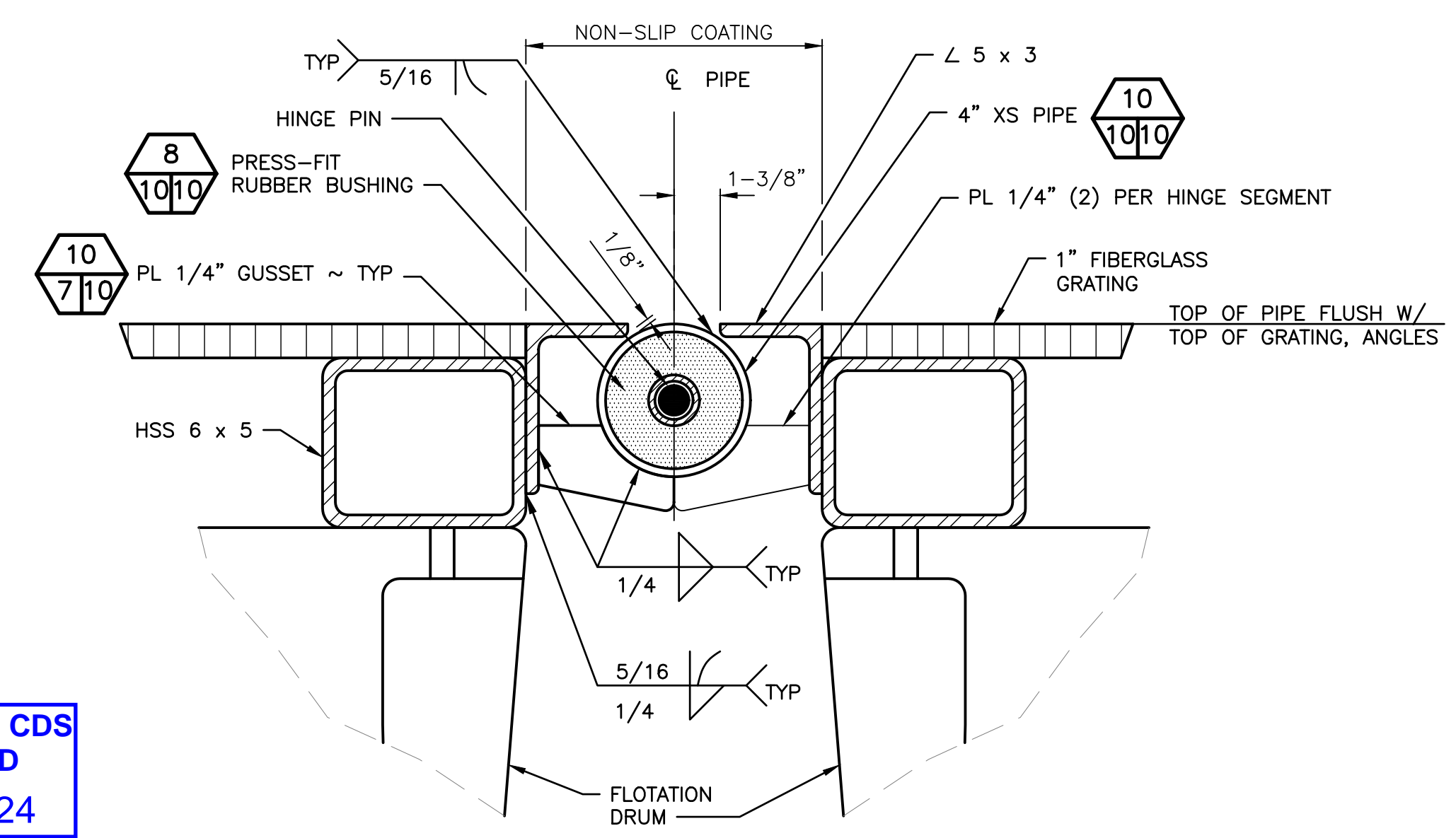
5/8" x 8" HILTI HAS-B-105 HDG INSTALLED WITH HILTI HIT-HY 200 ADHESIVE AND SECURED WITH A WASHER AND SINGLE NUT

L 5 x 3 x 3/8" TAKE CARE TO AVOID DISTORTION CAUSED BY THE HEAT OF WELDING

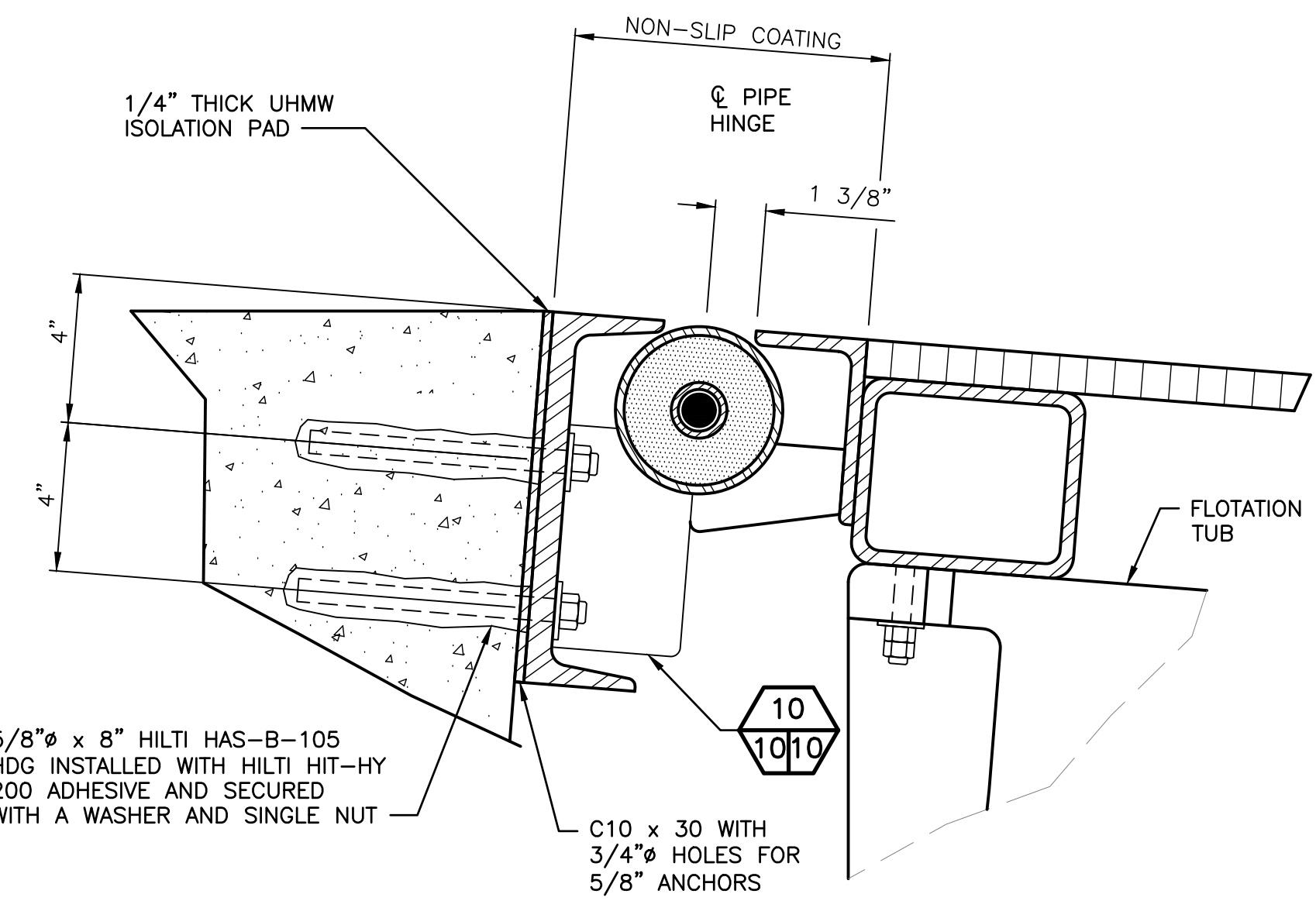


PLAN - ABUTMENT HINGE
SCALE: 1 1/2" = 1'-0"

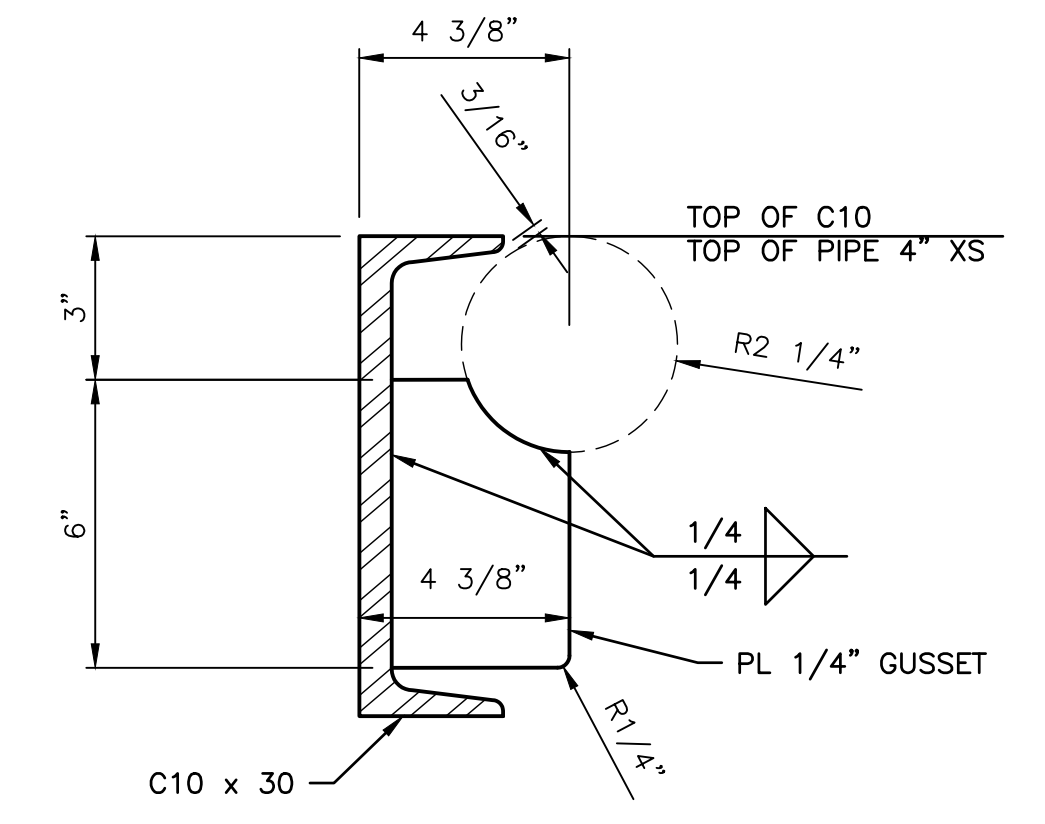
NOTE: HINGE PIN TO BE SECURED WITH A DOUBLE-JAM NUT (DO NOT OVER-TIGHTEN, PREVENT GALLING), AND SHALL BE FREE TO ROTATE AFTER INSTALLATION. THE END OF THE HINGE PIN IS TO HAVE A 30 DEGREE BEVEL, WITH A 1/4" DIAMETER ROUNDED END TO FACILITATE INSERTION INTO THE HINGE BUSHINGS. HINGE PIN IS TO HAVE A HOLE AND 1/4" 316SS COTTER PIN EACH END



FLOAT HINGE
SCALE: 3" = 1'-0"



CONCRETE ABUTMENT HINGE
SCALE: 3" = 1'-0"



ABUTMENT GUSSET PLATE
SCALE: 3" = 1'-0"

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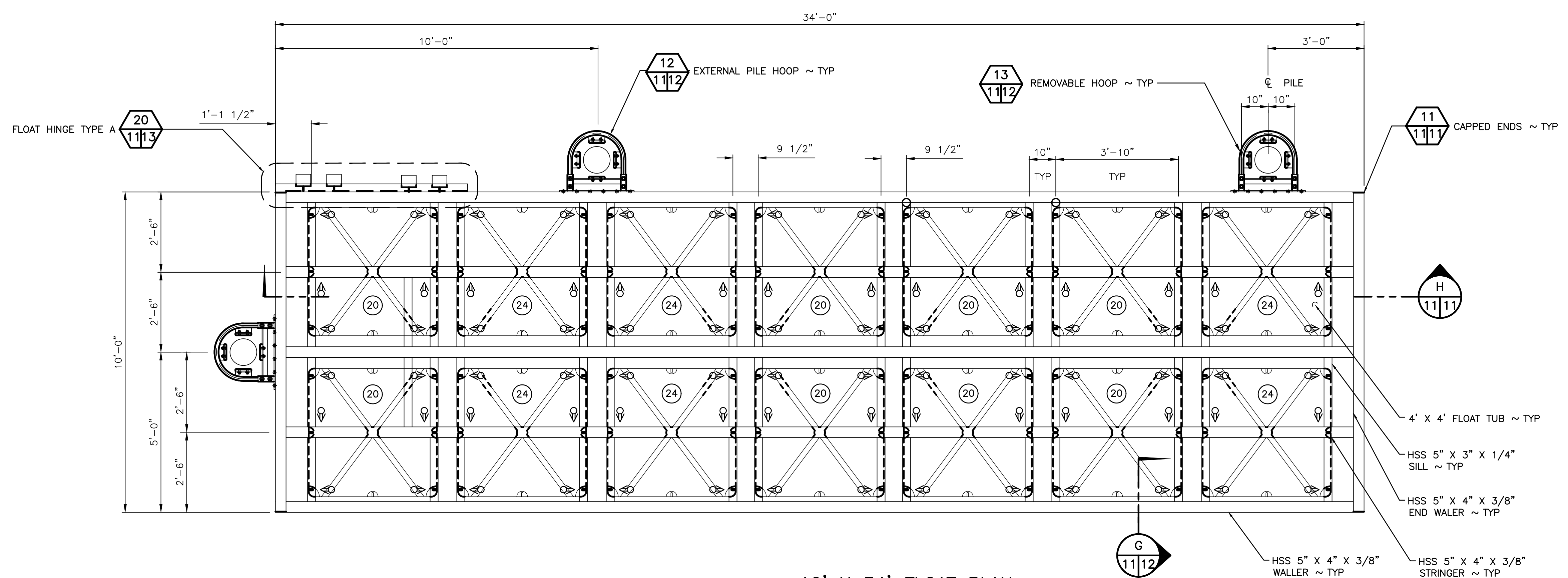
WASHINGTON DEPARTMENT OF FISH & WILDLIFE

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CHECKED BY S. GOODWIN			
DRAWN BY SS, SG			
DATE 6/13/2024			
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CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
HINGE AND ABUTMENT DETAILS

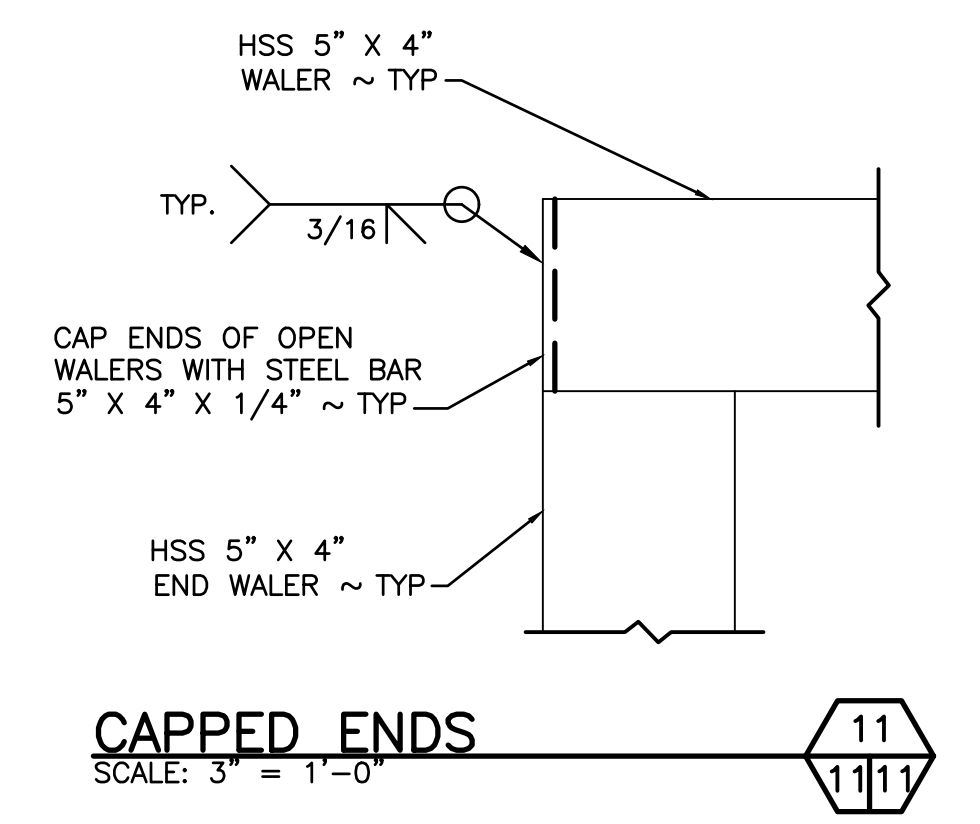
PROJECT NO. KS:A278:2024-1
SHEET 10 OF 15

- NOTES**
1. PROVIDE 3/8"Ø WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HSS TUBE WITH ACCESS HOLES TO PREVENT MEMBERS FROM HOLDING WATER. SEE DETAIL 5/4/6
 2. PROVIDE 1"Ø VENT HOLES IN SIDES OF THE HSS MEMBERS AT ALL WELDED INTERSECTIONS TO FACILITATE COMPLETE DRAINING DURING HOT-DIP GALVANIZING. SEE DETAIL 2/4/4
 3. 10' X 34' TYPE 1 FLOAT:
 SELF WEIGHT = 8514 LBS
 NET OPEN AREA = 17.1%
 FLOTATION FOOTPRINT = 64.0%
- LEGEND**
- ⊕ 2-3/8"Ø DRILLED (NOT FLAME CUT) BOLT ACCESS OR VENT HOLE CENTERED VERTICALLY IN HSS TUBE. PROVIDE MINIMUM 1" AWAY FROM WELDED CONNECTIONS. SMOOTH EDGES PRIOR TO GALVANIZING. SEE DETAILS 6/4/6 & 7/4/6

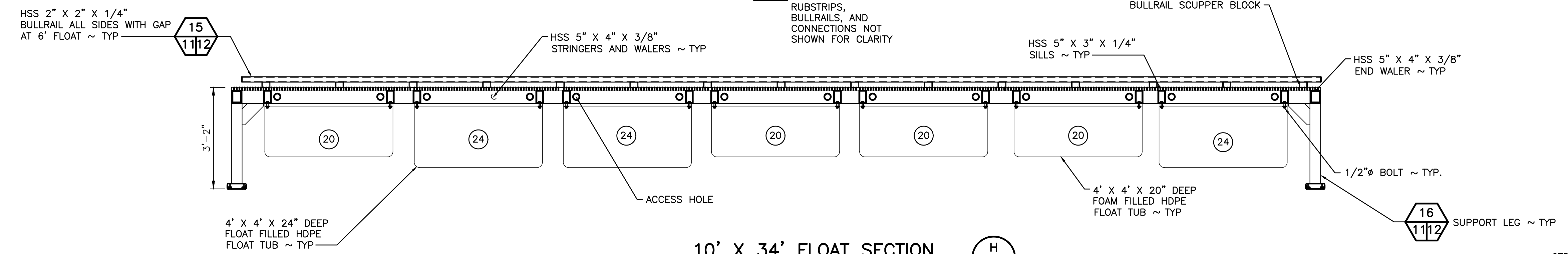


10' X 34' FLOAT PLAN
 SCALE: 1/2" = 1'-0"

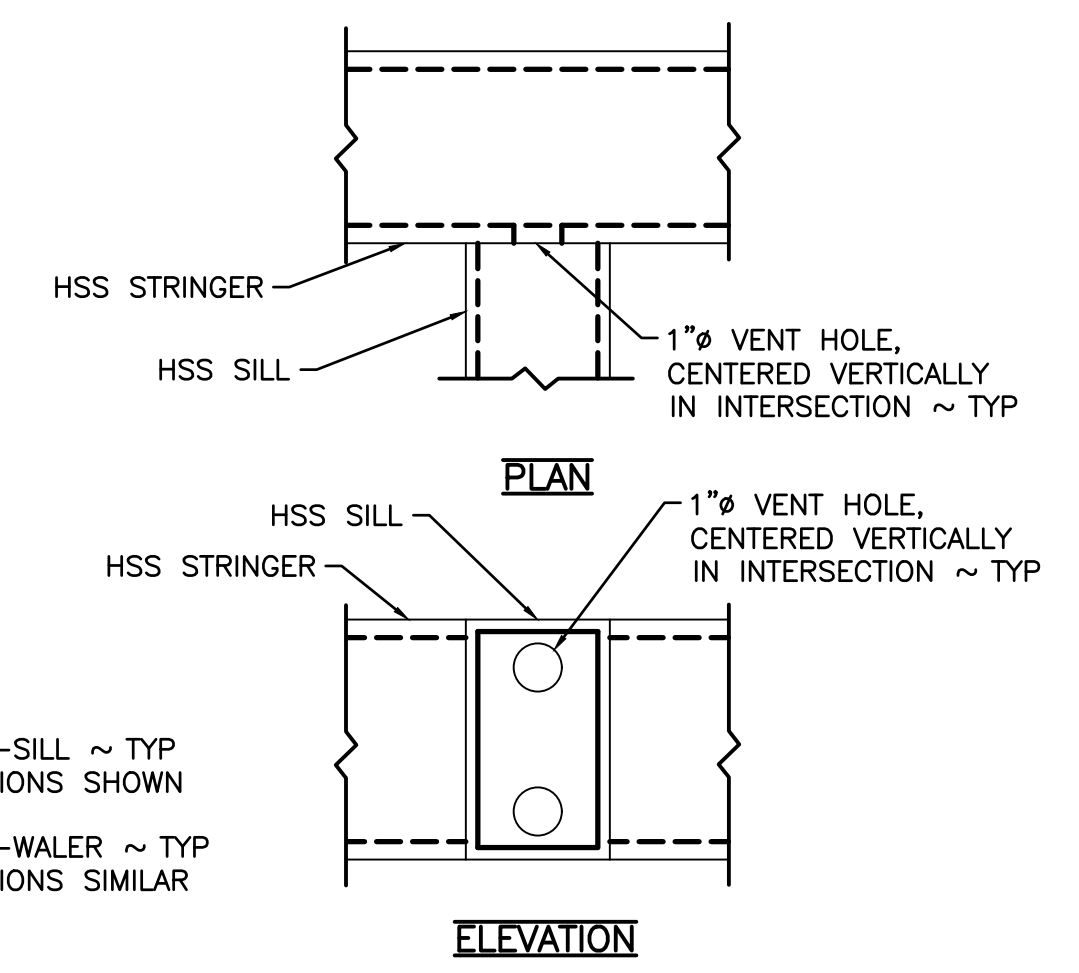
NOTE: GRATING, RUBSTRIPS, BULLRAILS, AND CONNECTIONS NOT SHOWN FOR CLARITY



CAPPED ENDS
 SCALE: 3" = 1'-0"



10' X 34' FLOAT SECTION
 SCALE: 1/2" = 1'-0"



VENT HOLES
 SCALE: 3" = 1'-0"

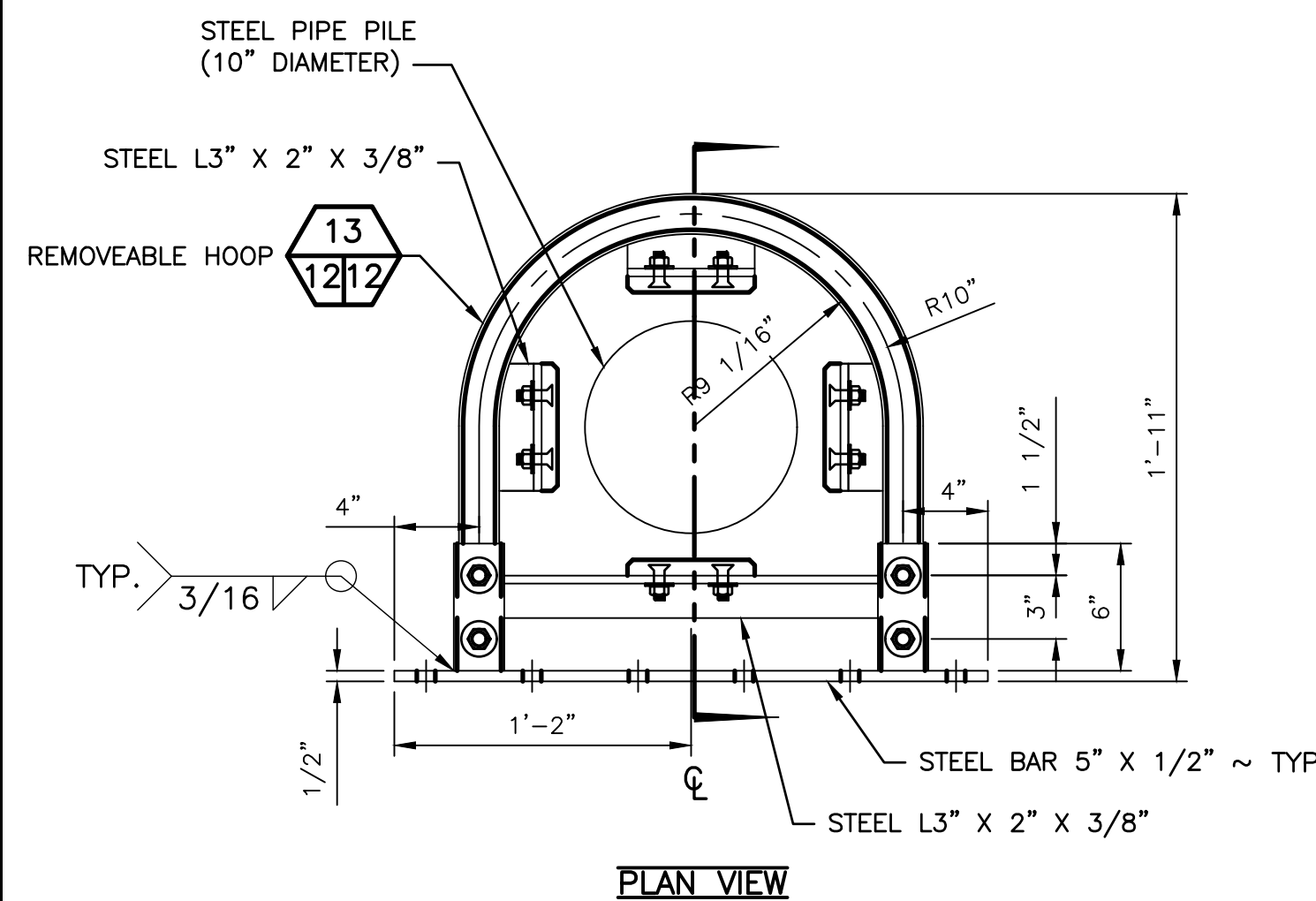
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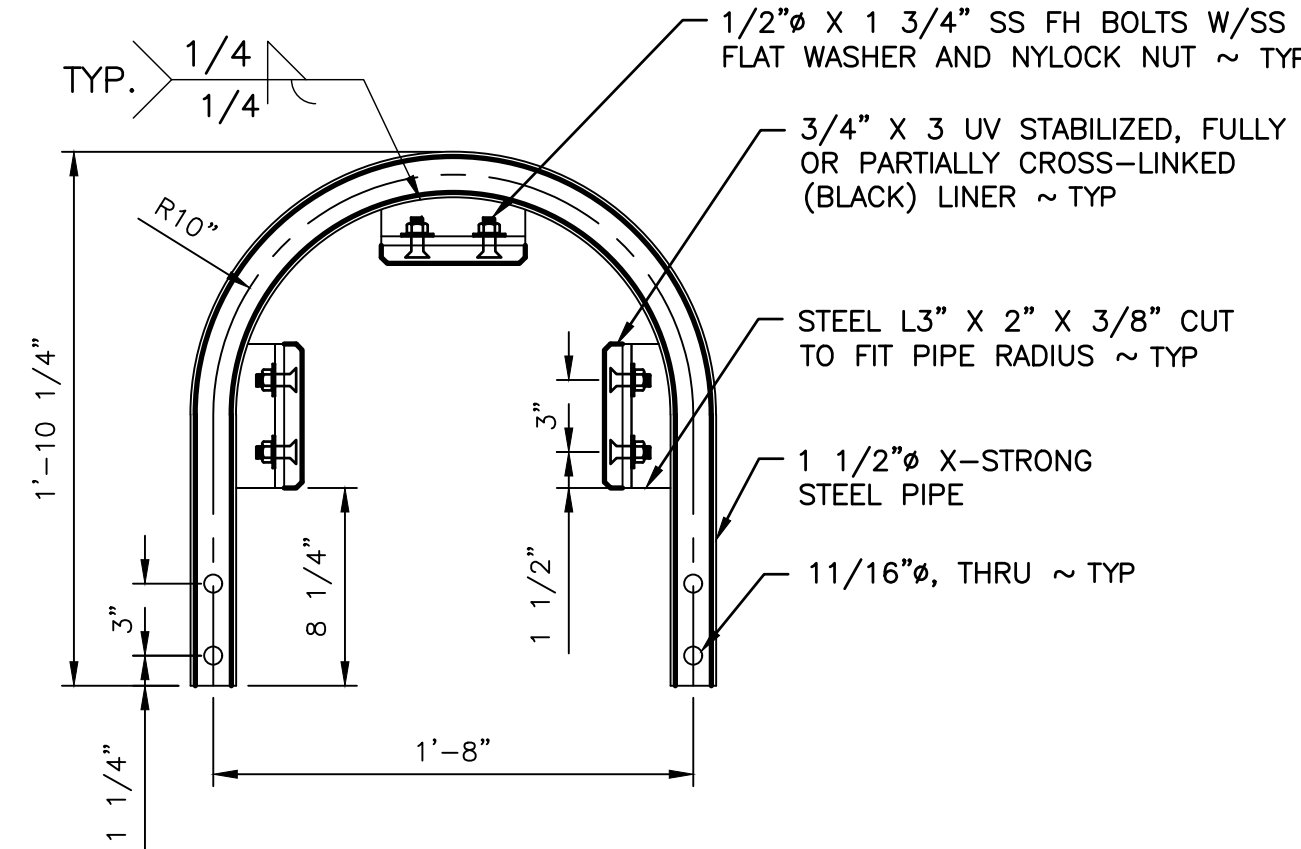
SYM	DATE	REVISION DESCRIPTION	BY
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DESIGNED BY		J. HANSEN	
CHECKED BY		S. GOODWIN	
DRAWN BY		SS, SG	
DATE		6/13/2024	

MATTOON LAKE ACCESS
 ACCESS REDEVELOPMENT
 10' X 34' FLOAT PLAN AND SECTION

PROJECT NO. WM:A701:2021-1	
SHEET 11	OF 15

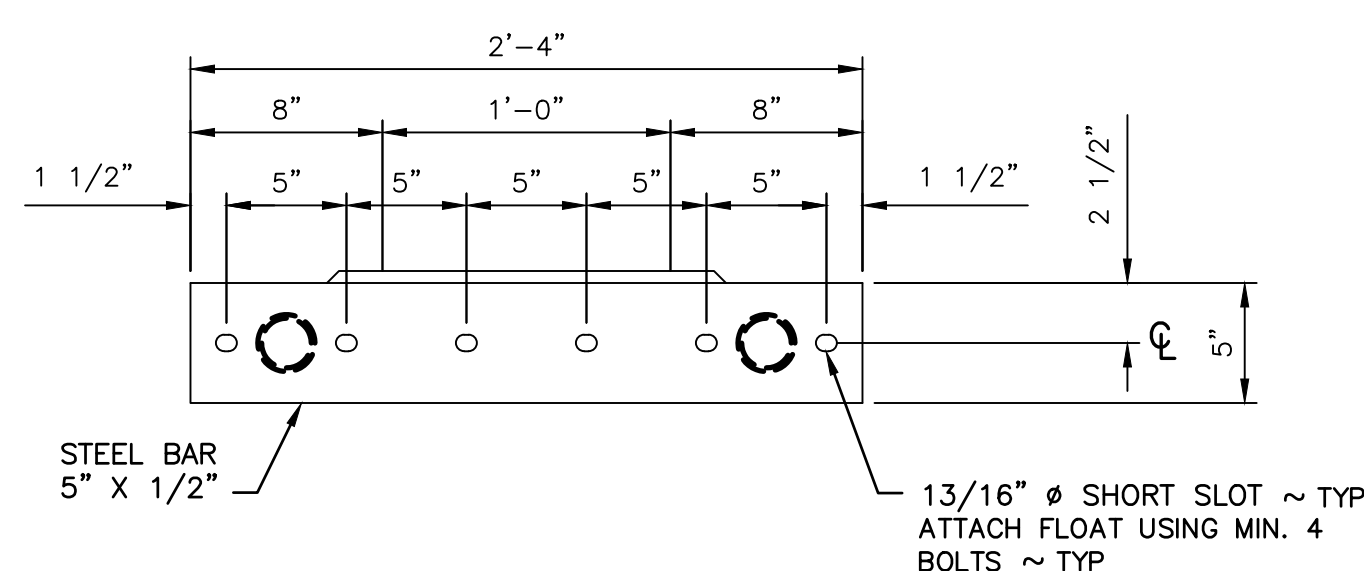
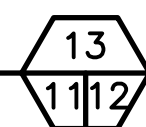


PLAN VIEW

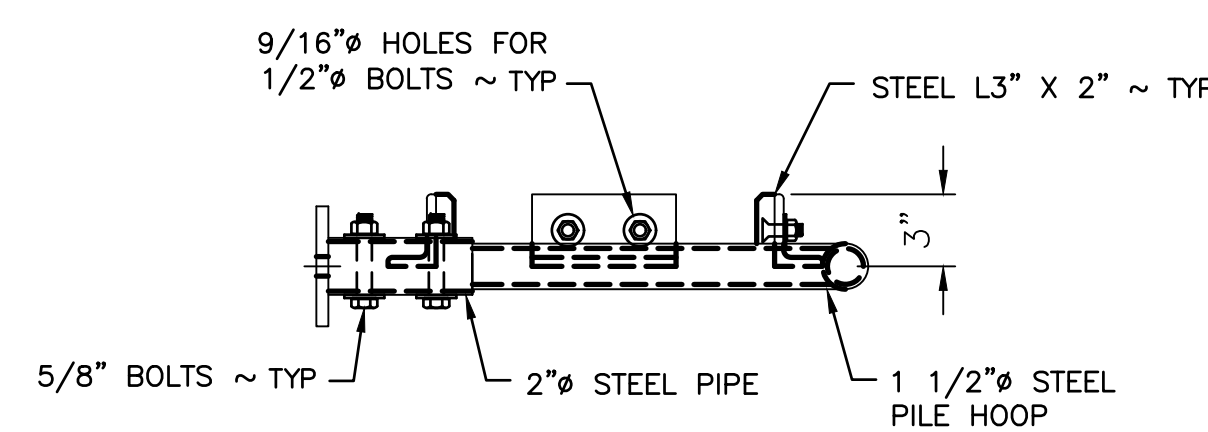


REMOVABLE HOOP

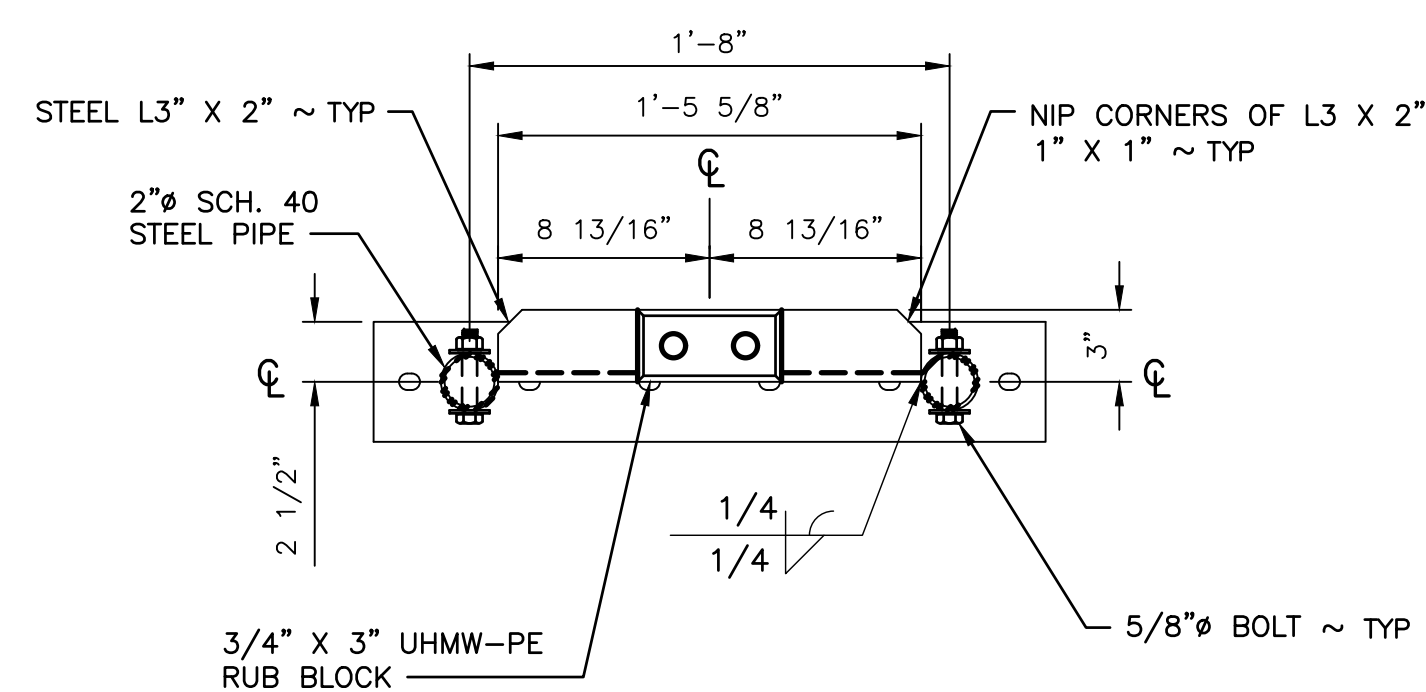
SCALE: 1 1/2" = 1'-0"



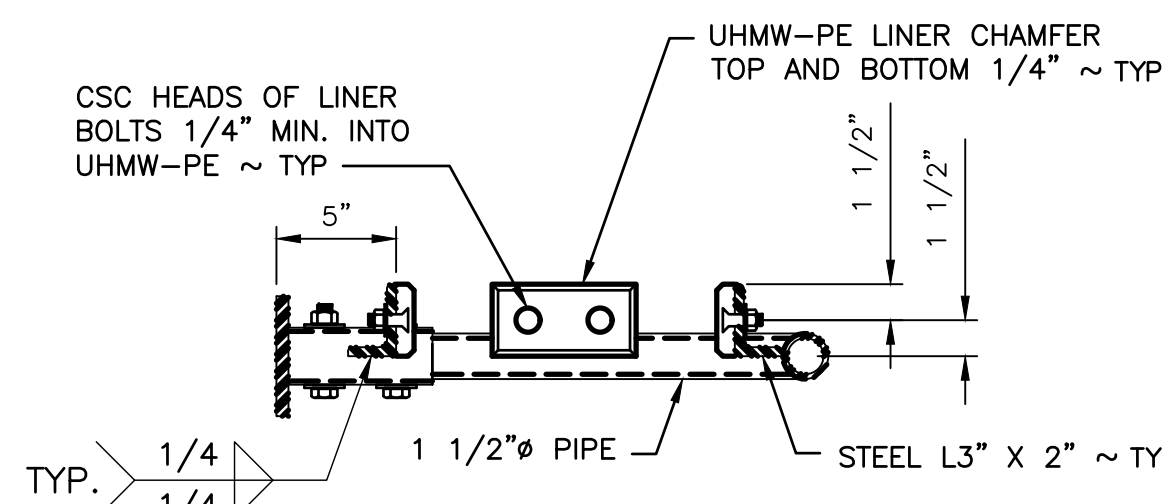
REAR VIEW



SIDE VIEW



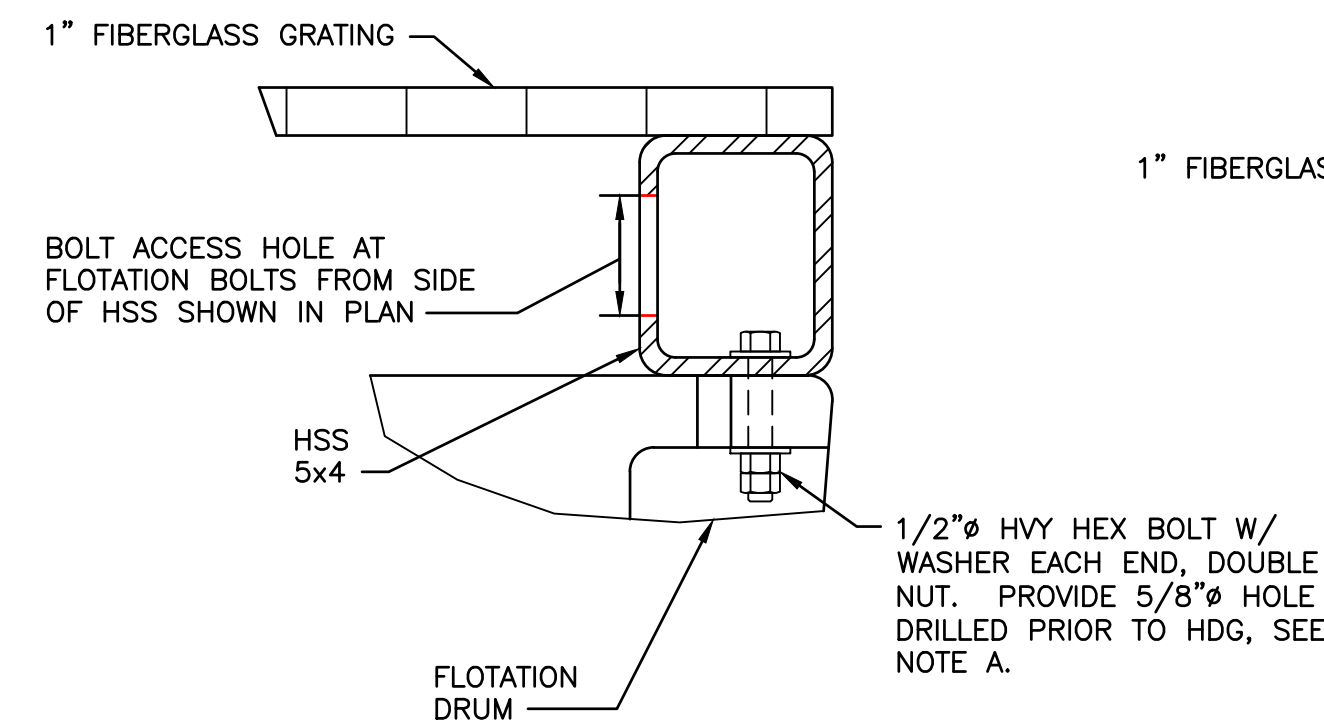
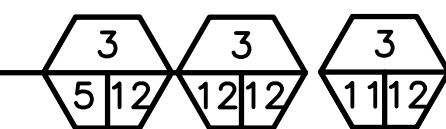
FRONT VIEW



SECTION VIEW

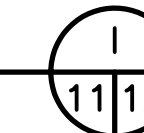
EXTERNAL PILE HOOP

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



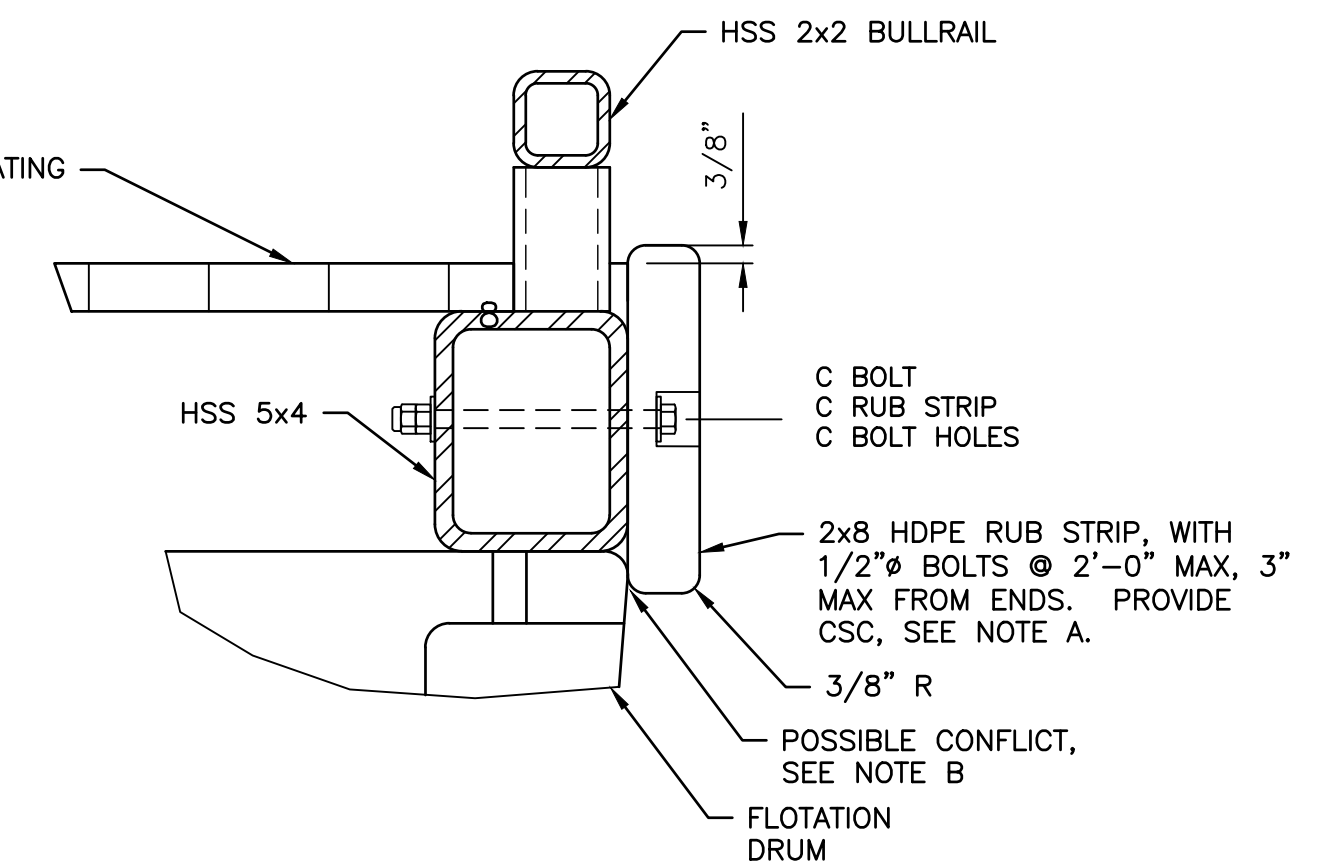
SECTION FLOAT DRUM

SCALE: 3" = 1'-0"



NOTES:

A. DUE TO FABRICATION TOLERANCES OF FLOTATION DRUMS IT IS RECOMMENDED THAT HOLES ARE DRILLED BASED ON AS-BUILT FLOAT-DRUM DIMENSIONS.



SECTION - TYPICAL RUB STRIP

SCALE: 3" = 1'-0"

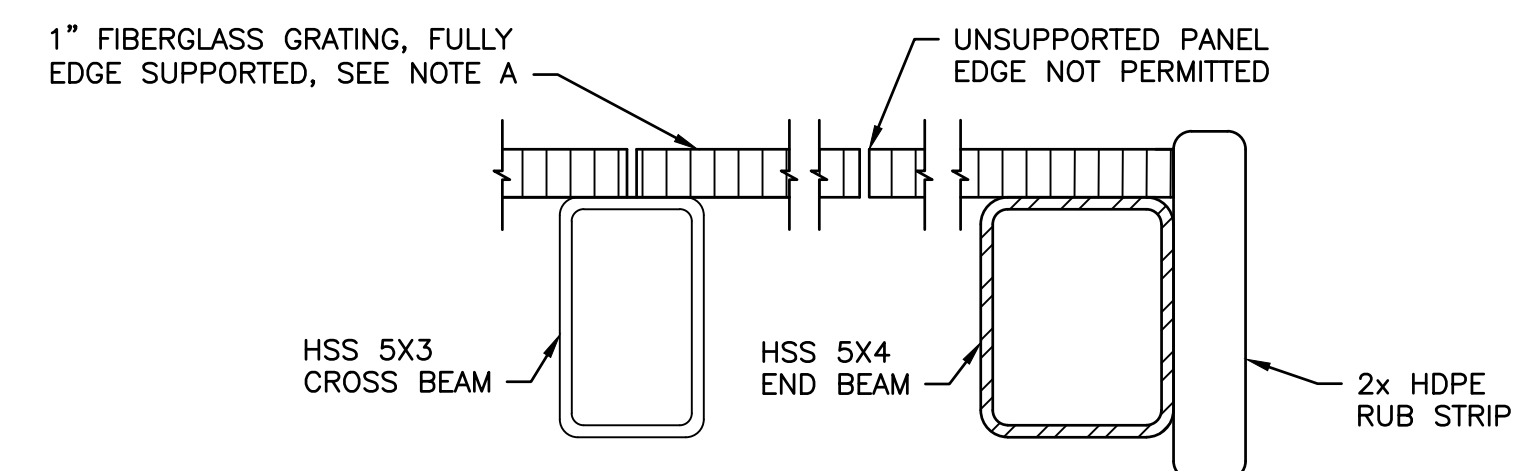


NOTES:

A. INSTALL BOLTS IN 5/8" Ø HOLES IN HSS AND RUB STRIP. COUNTER SINK RUB STRIP TO PROVIDE A MINIMUM 3/8" WEARING SURFACE. PROVIDE BOLTS W/ DBL NUT & WASHERS.

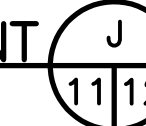
B. IF FLOAT DRUM PROTRUDES BEYOND HSS DUE TO FABRICATION TOLERANCES, NOTCH RUB STRIP TO AVOID INTERFERENCE.

C. AT FLOAT END, PROVIDE RUB STRIP INSTEAD OF HINGE ASSEMBLY.



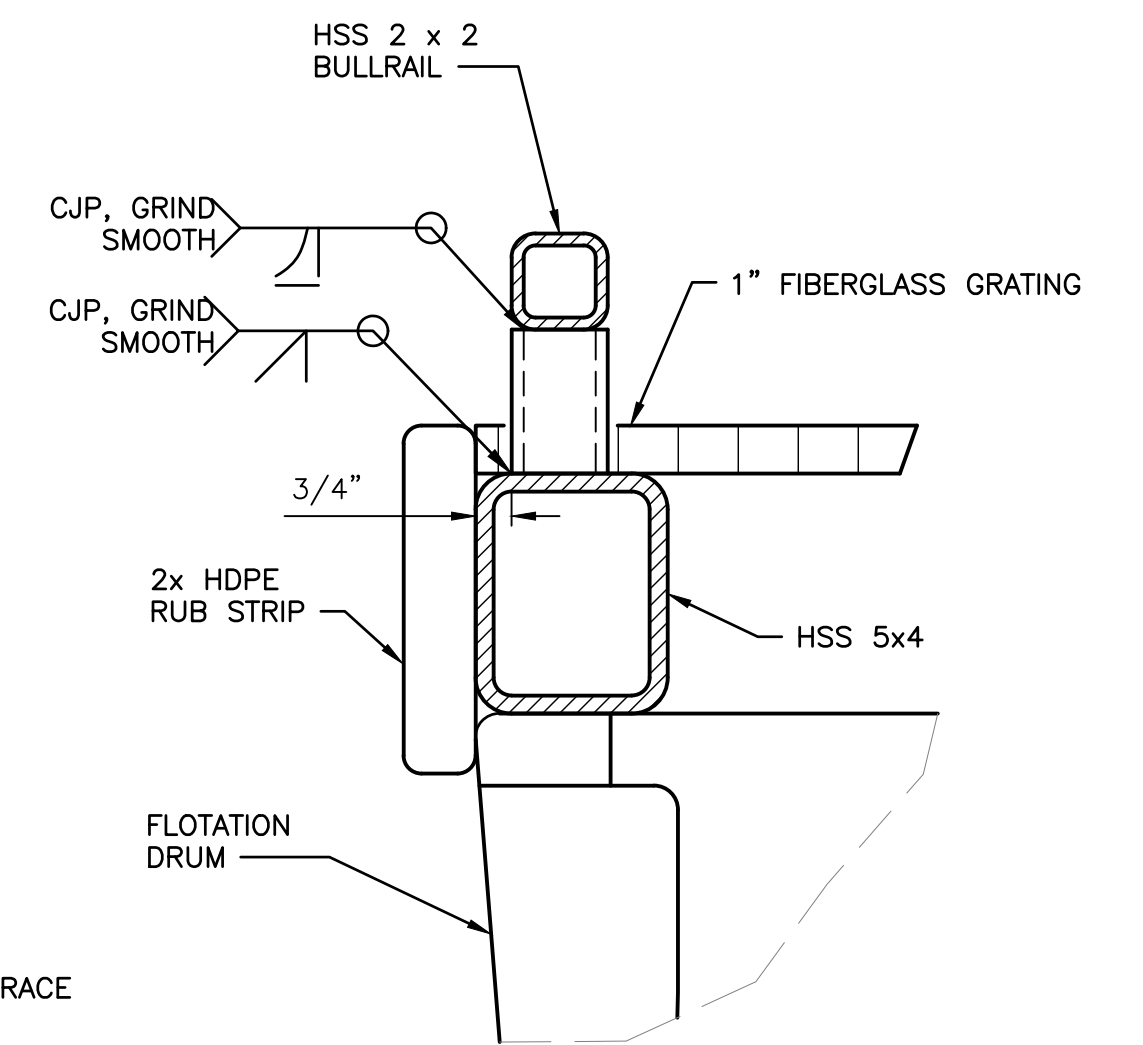
SECTION - GRATING ATTACHMENT

NOT TO SCALE



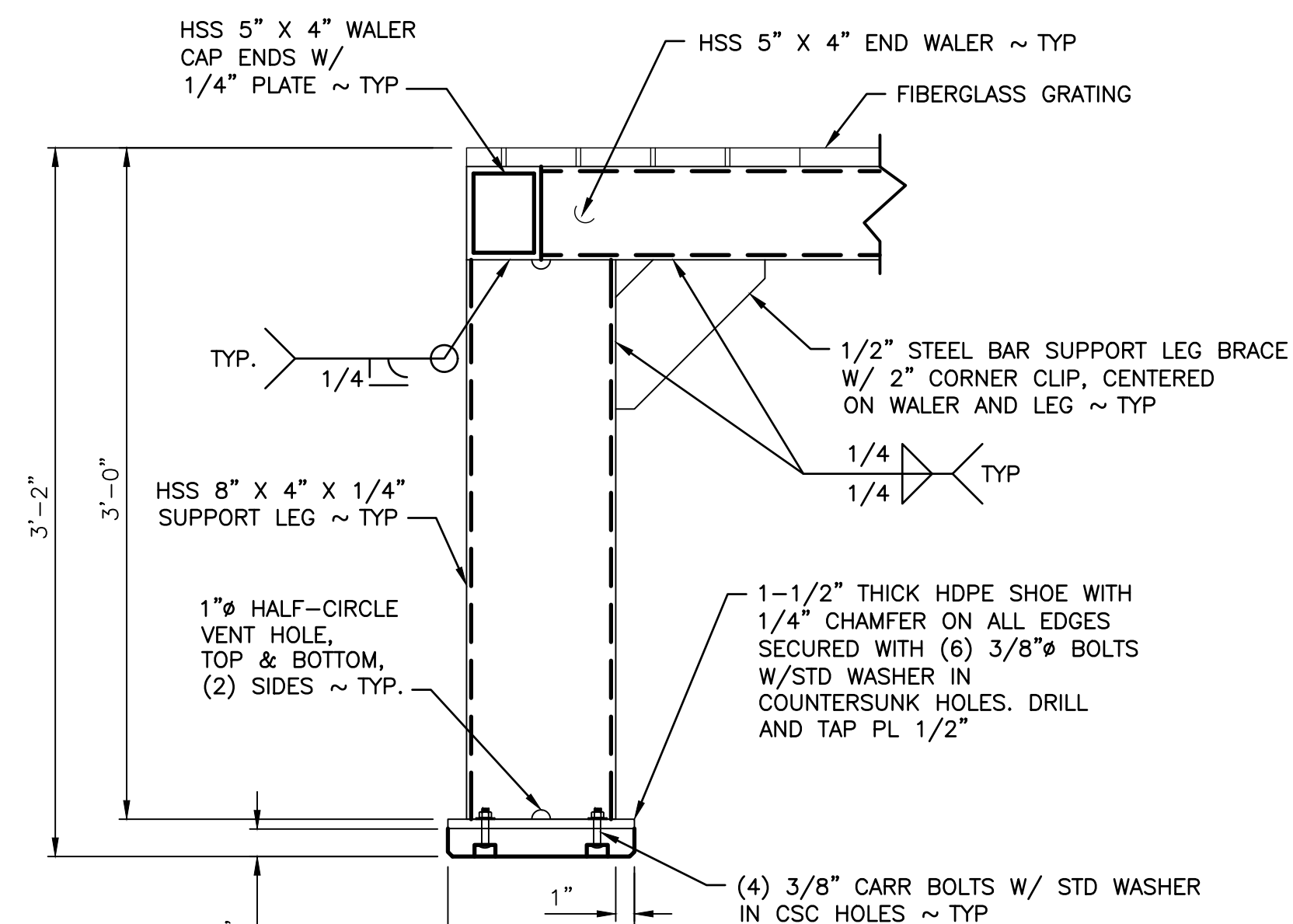
NOTES:

A. GRATING IS TO BE FULLY EDGE SUPPORTED WITH A MINIMUM OF 1" BEARING ON SUPPORTS



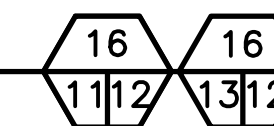
BULLRAIL

SCALE: 3" = 1'-0"



SUPPORT LEG

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



HOT DIP GALVANIZE ALL STEEL COMPONENTS AFTER FABRICATION

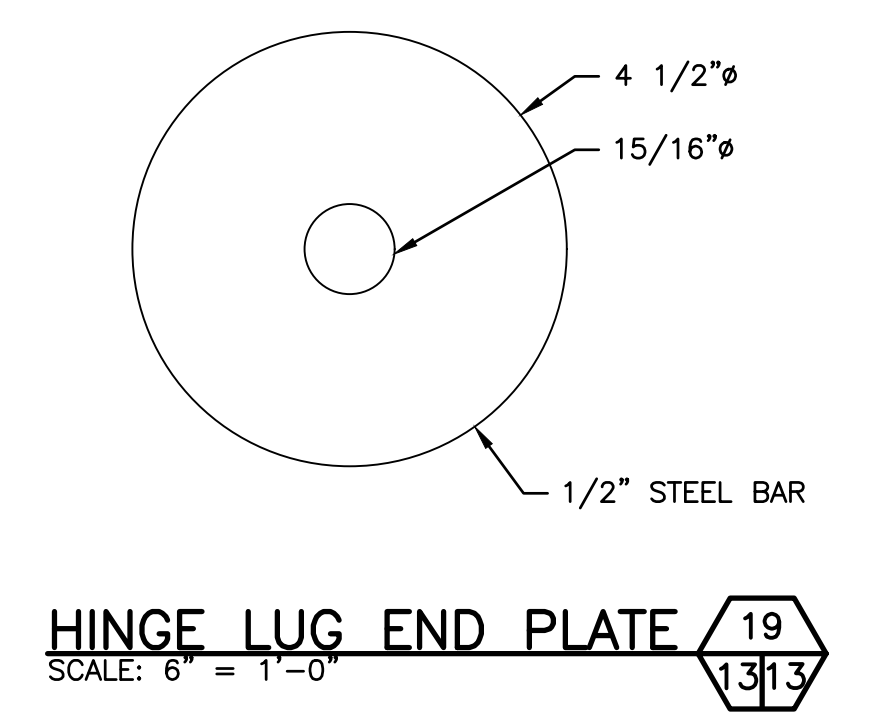
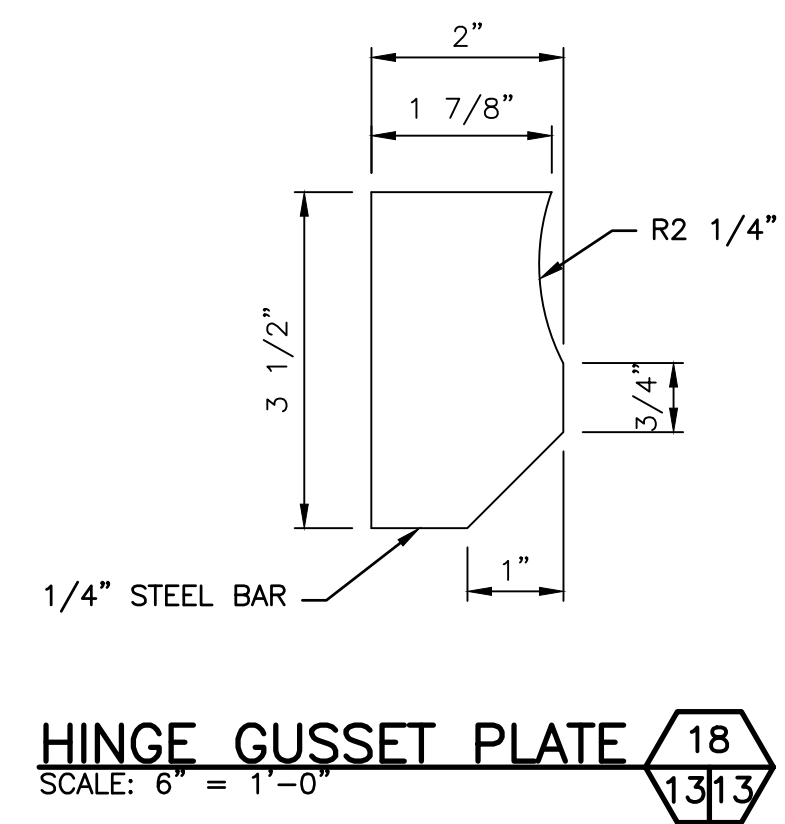
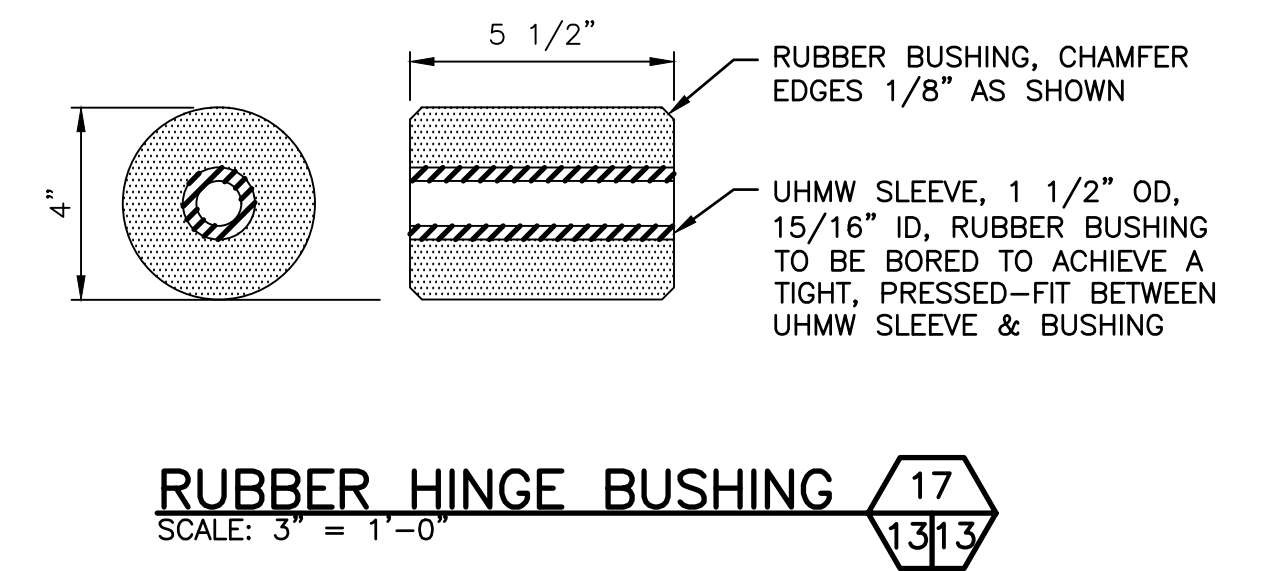
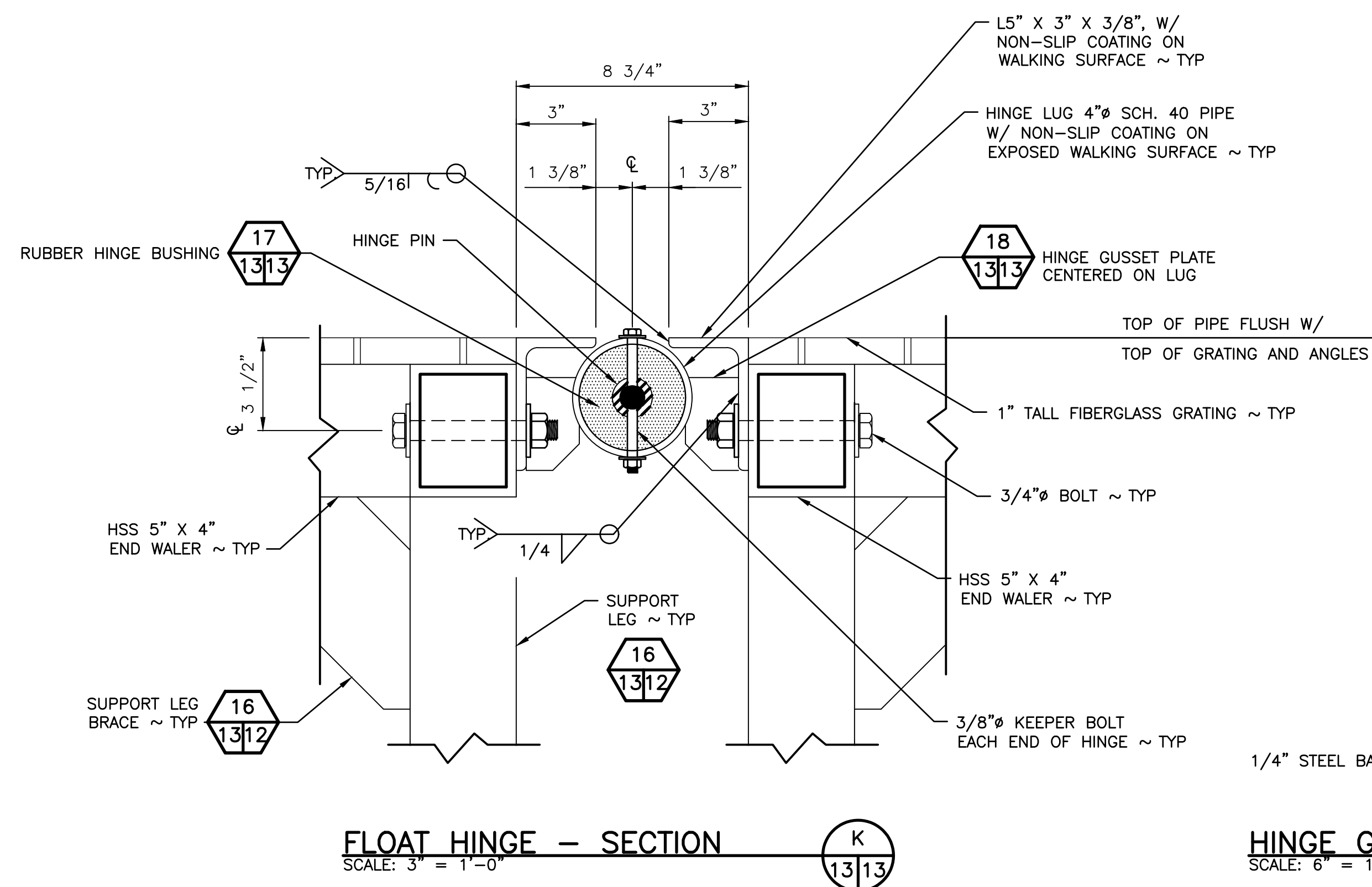
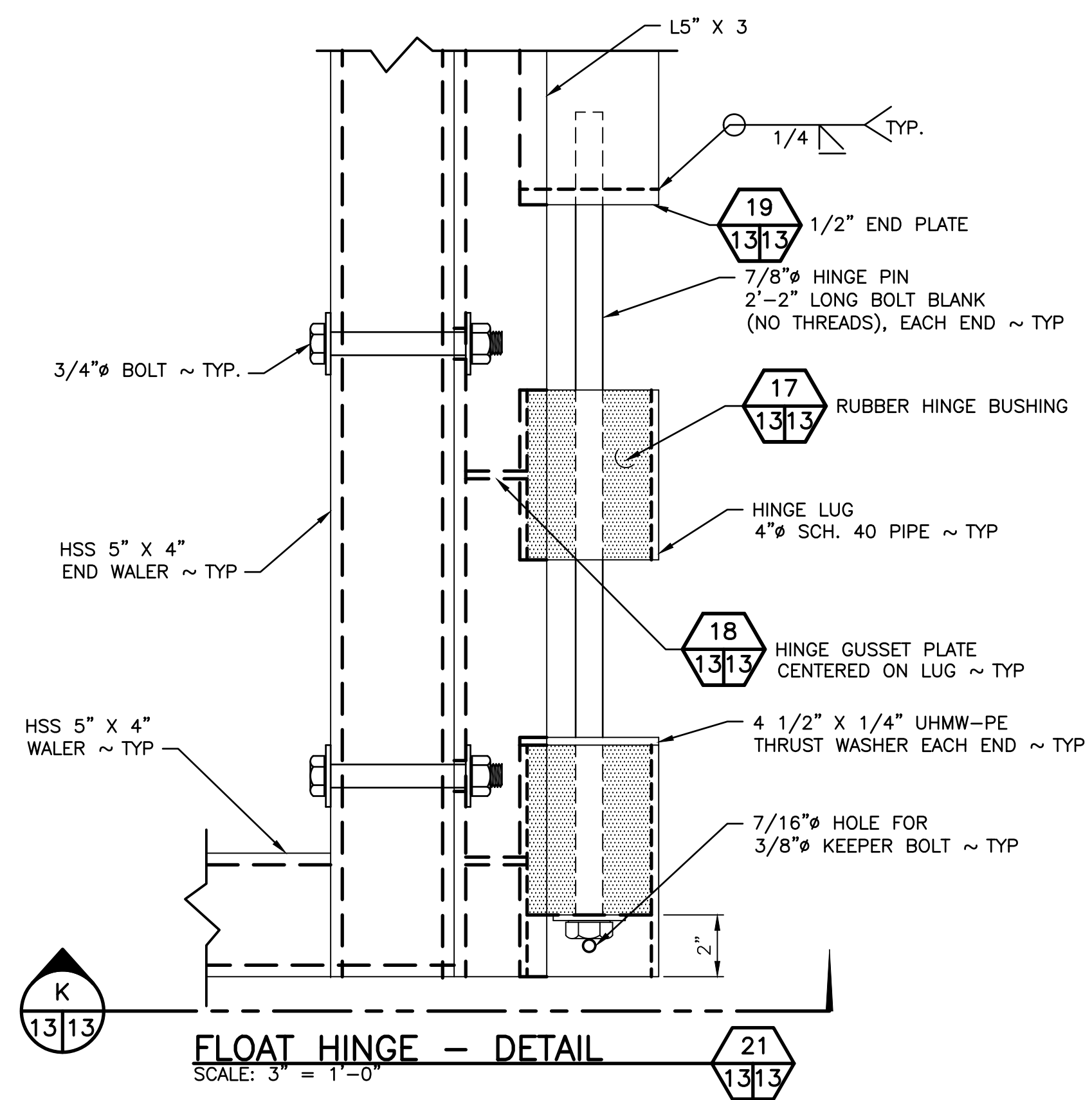
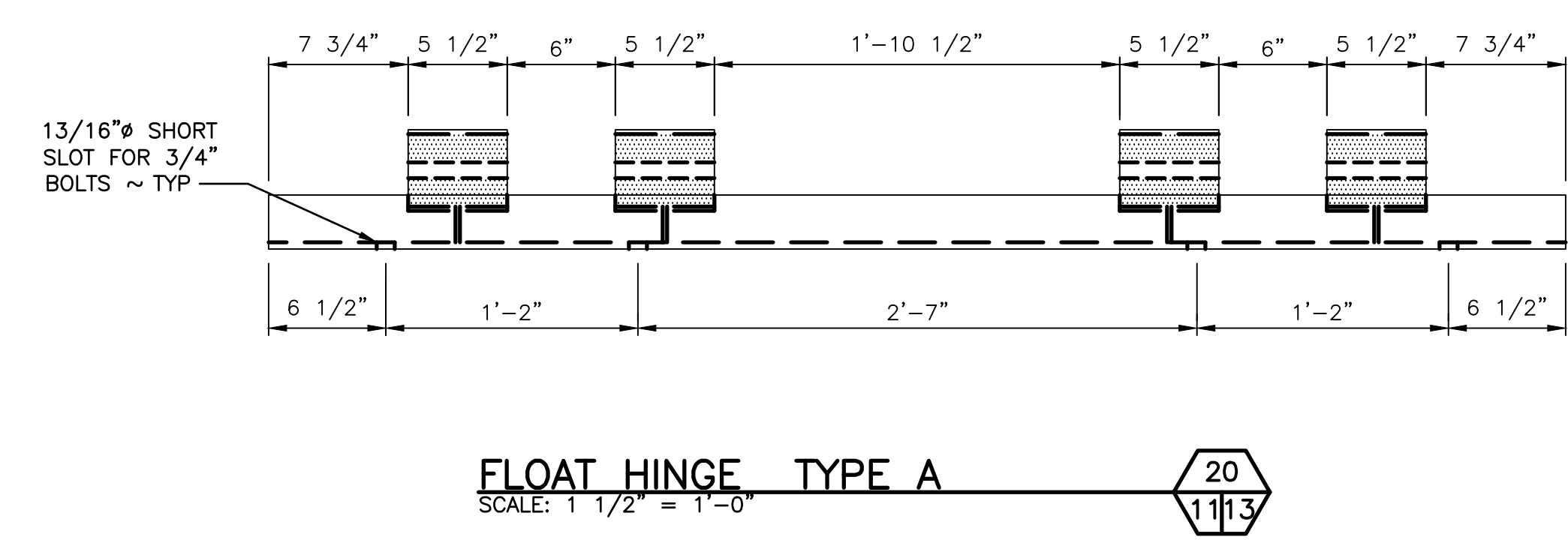
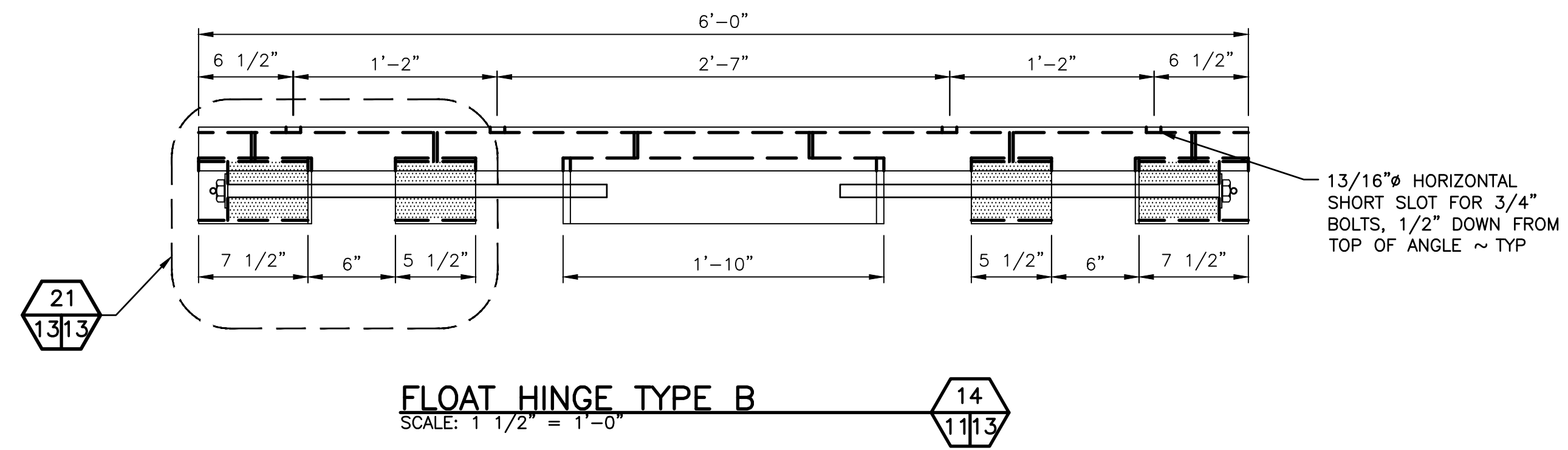
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WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY
DESIGNED BY J. HANSEN			
CHECKED BY S. GOODWIN			
DRAWN BY SS, SG			
DATE 6/13/2024			
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER		DATE:	
PROGRAM		DATE:	

MATTOON LAKE ACCESS
 ACCESS REDEVELOPMENT
 DETAILS 1

PROJECT NO.
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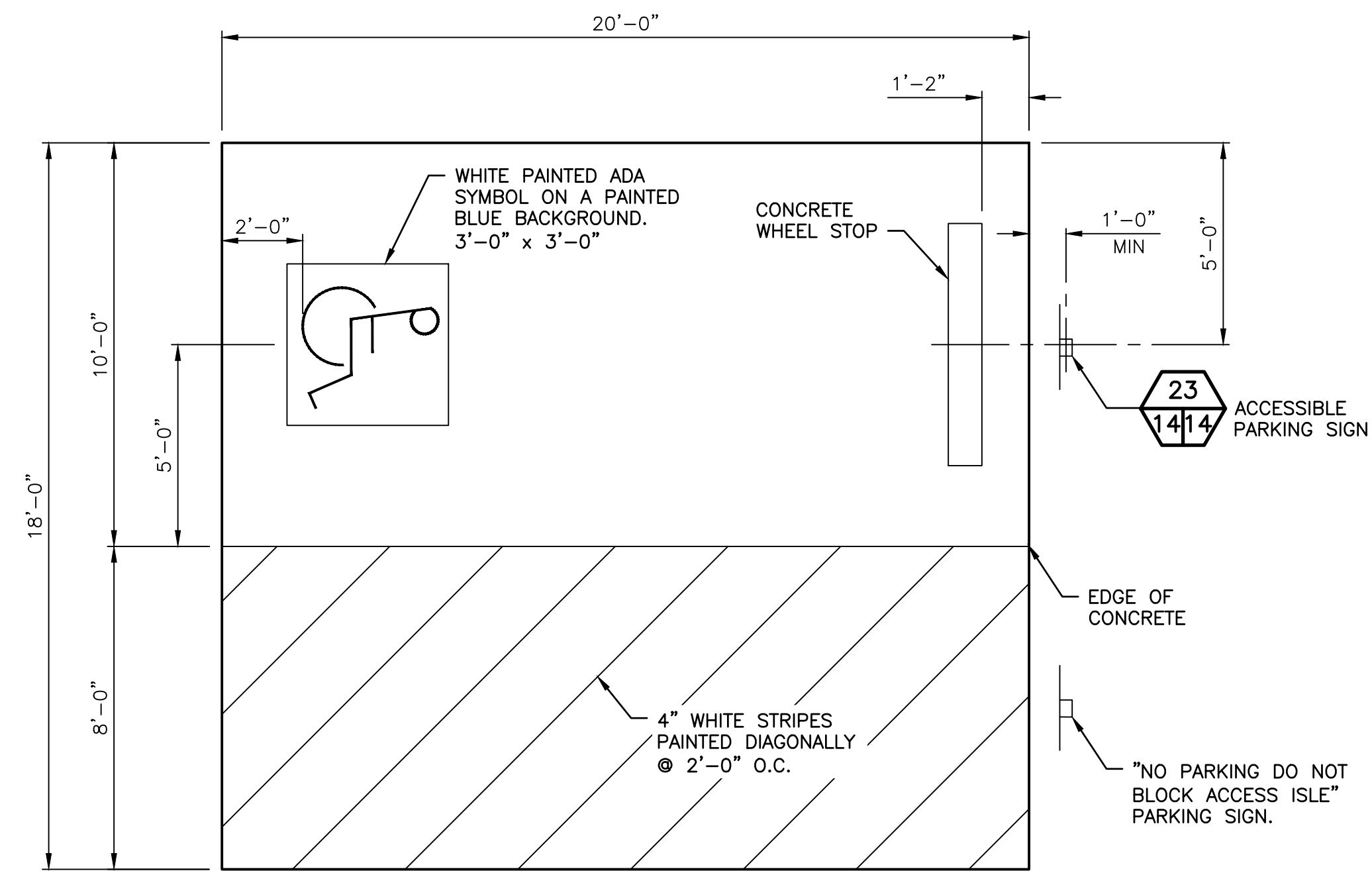
WASHINGTON DEPARTMENT OF
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MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
DETAILS 2

PROJECT NO.
WM:A701:2021-1

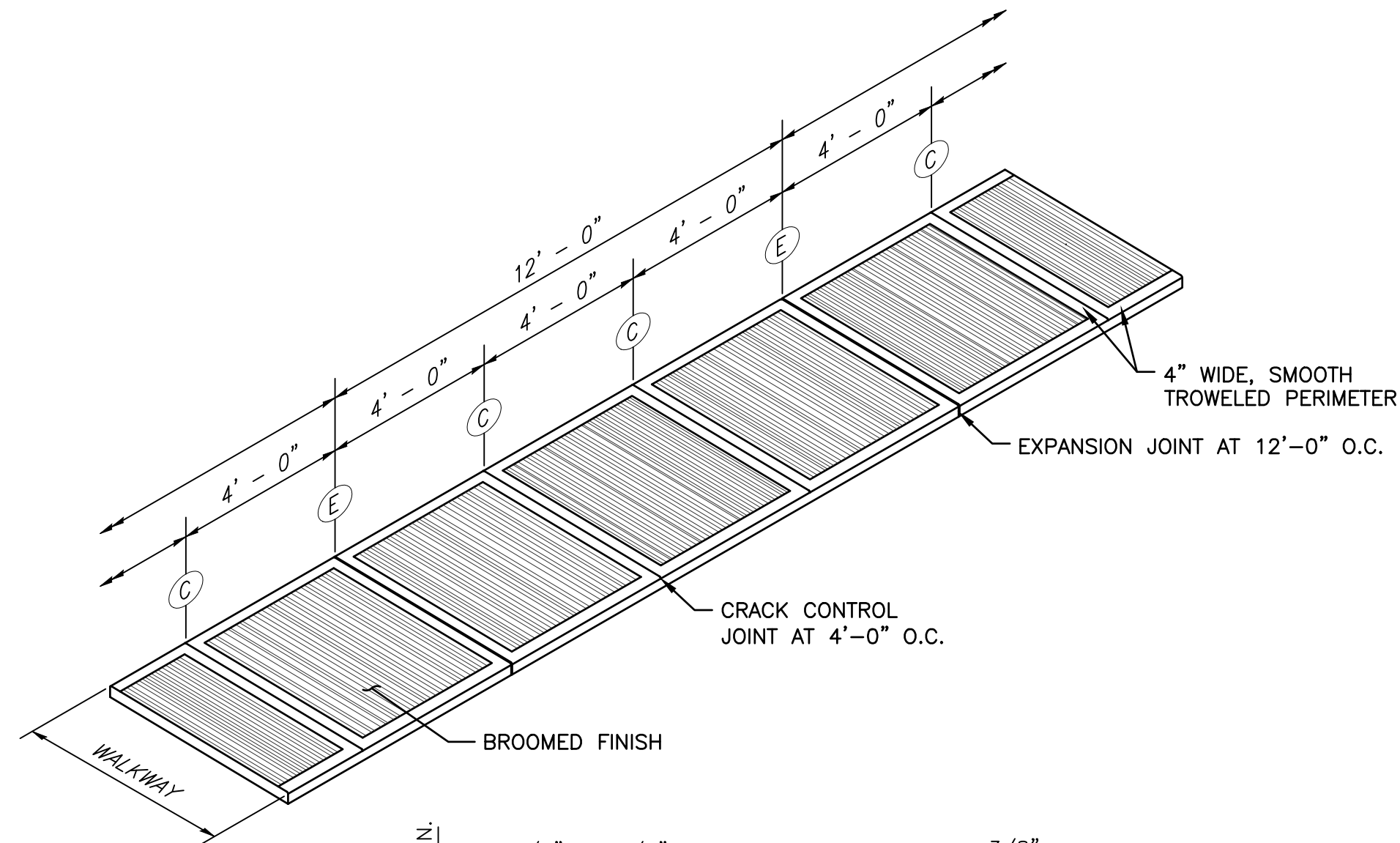
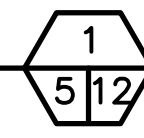
SHEET OF
13 15



CONCRETE VAN ACCESSIBLE PARKING AREA

NOT TO SCALE

NOTE: 2% MAXIMUM SLOPE IN ALL DIRECTIONS

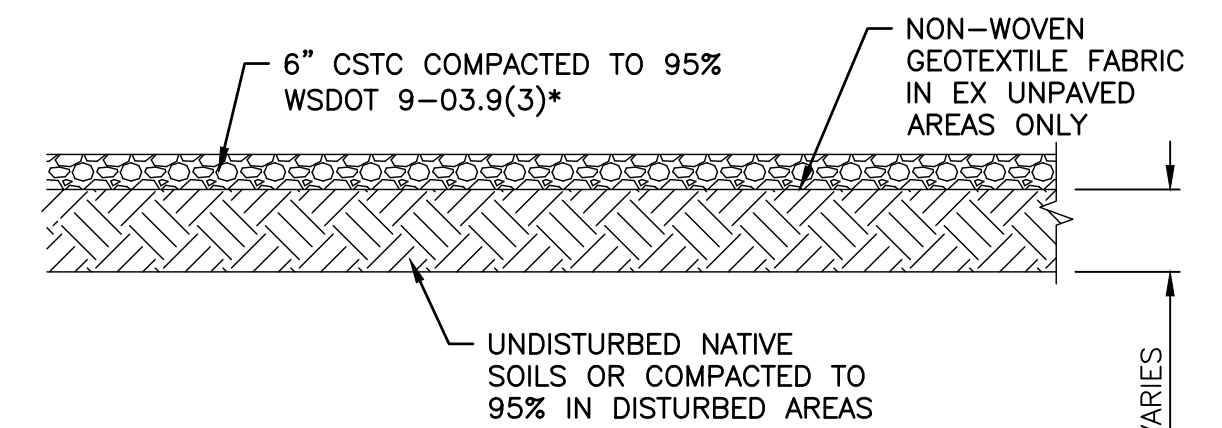
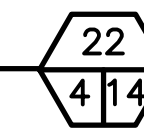


© CRACK CONTROL JOINT

Ⓔ EXPANSION JOINT

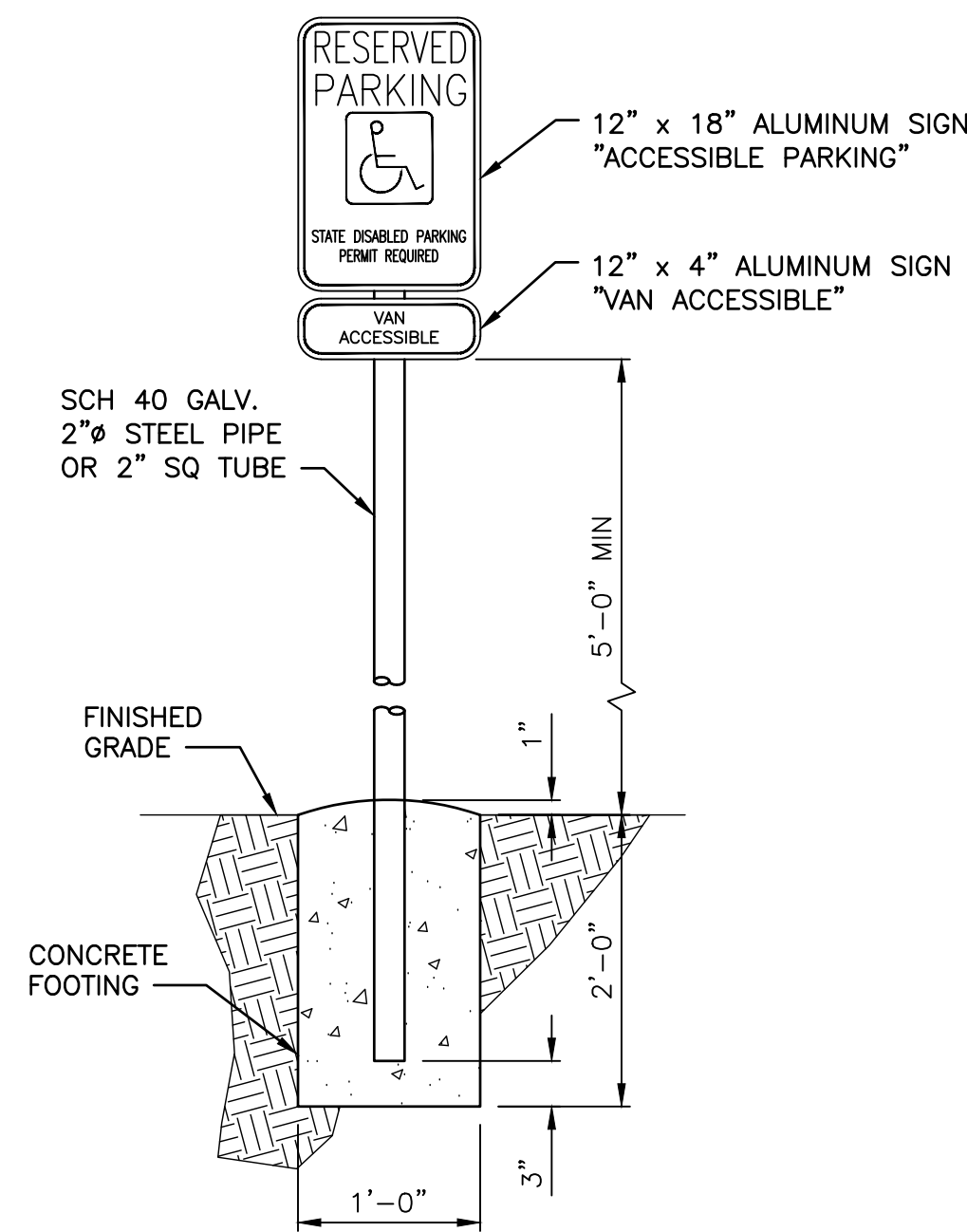
TYPICAL CONCRETE WALKWAY DETAIL

NOT TO SCALE



GRAVEL DETAIL

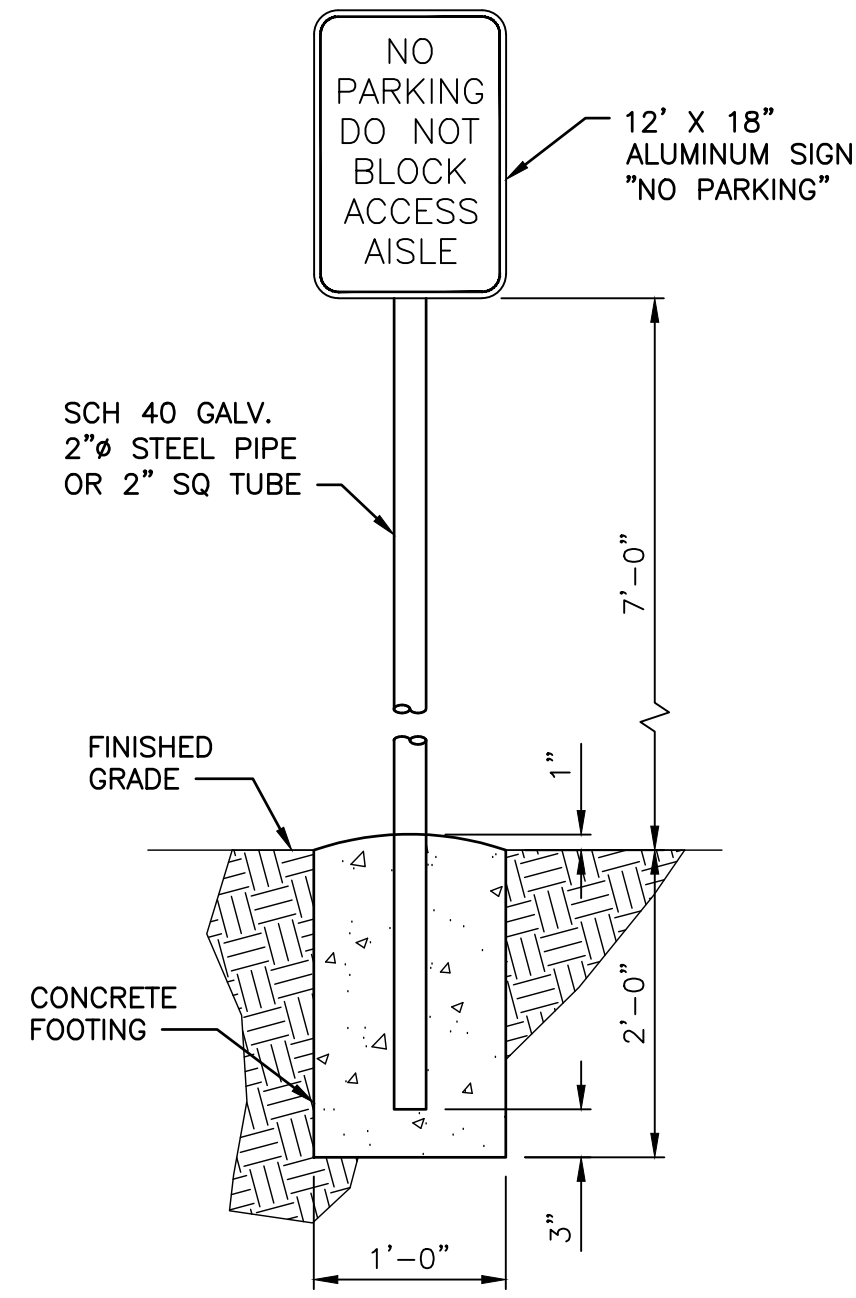
NOT TO SCALE



ACCESSIBLE PARKING SIGN

NOT TO SCALE

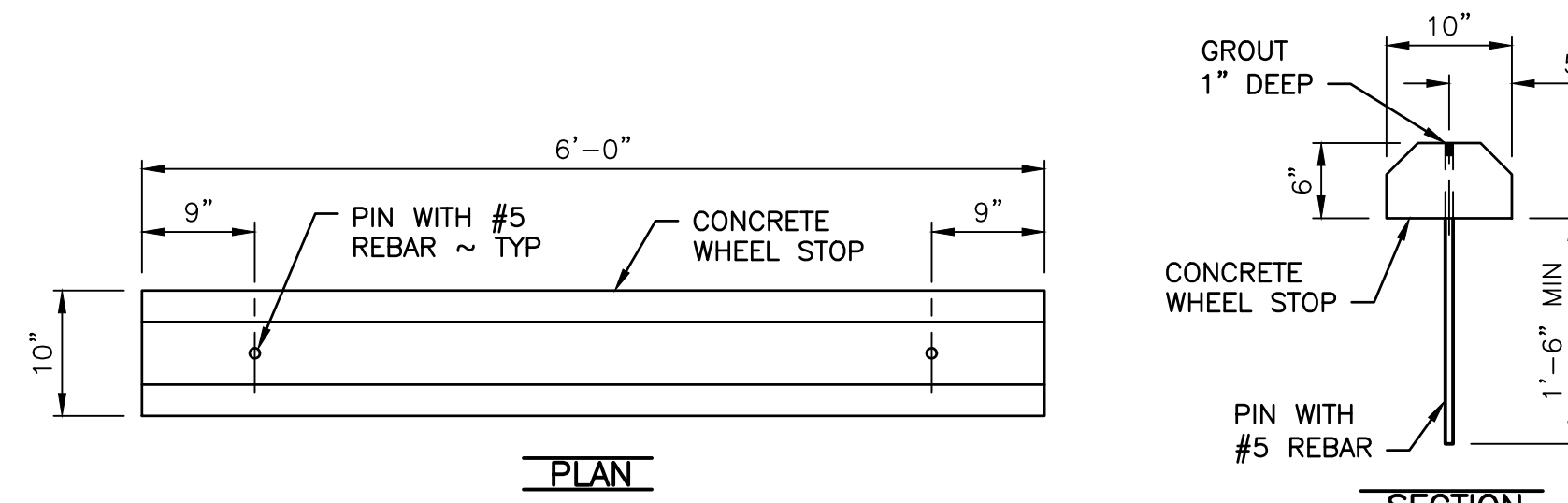
NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST



NO PARKING SIGN

NOT TO SCALE

NOTE: USE TAMPER RESISTANT NUTS TO ATTACH SIGNS TO POST

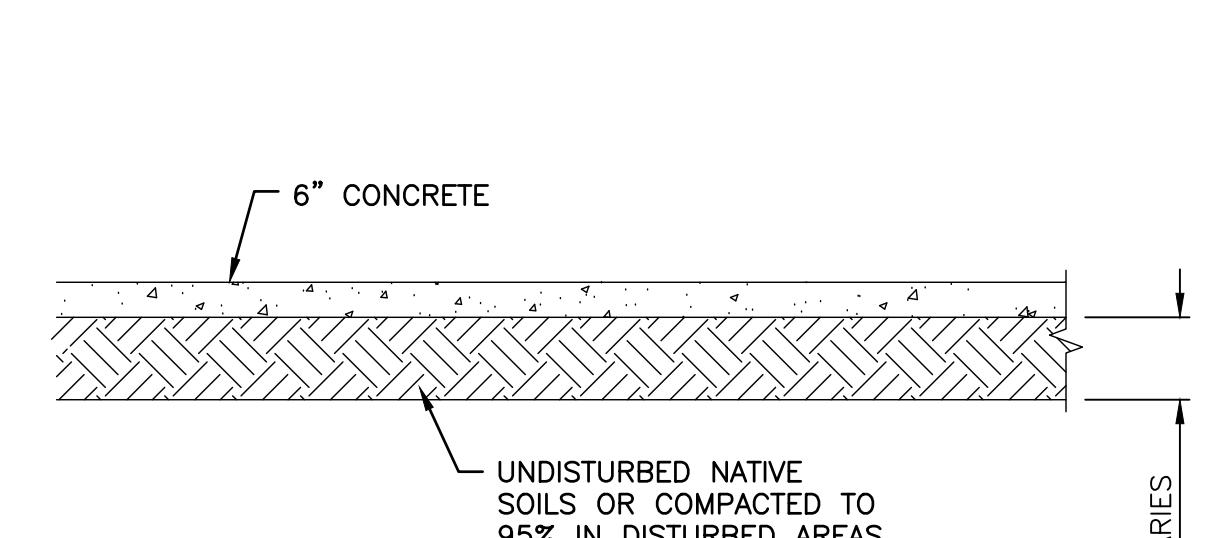


PLAN

SECTION

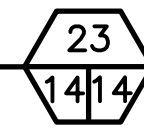
CONCRETE WHEEL STOP

NOT TO SCALE



CONCRETE DETAIL

NOT TO SCALE



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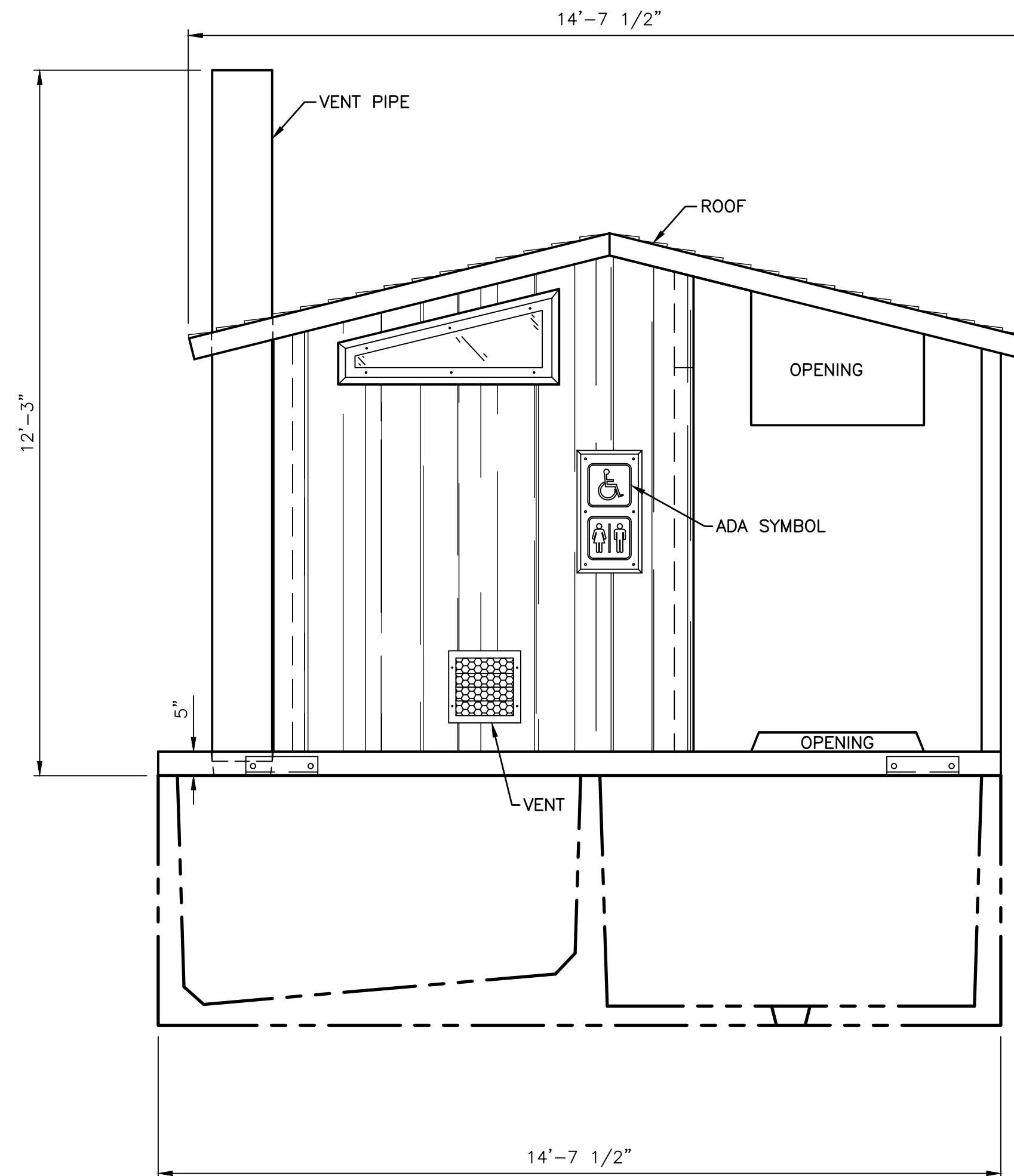
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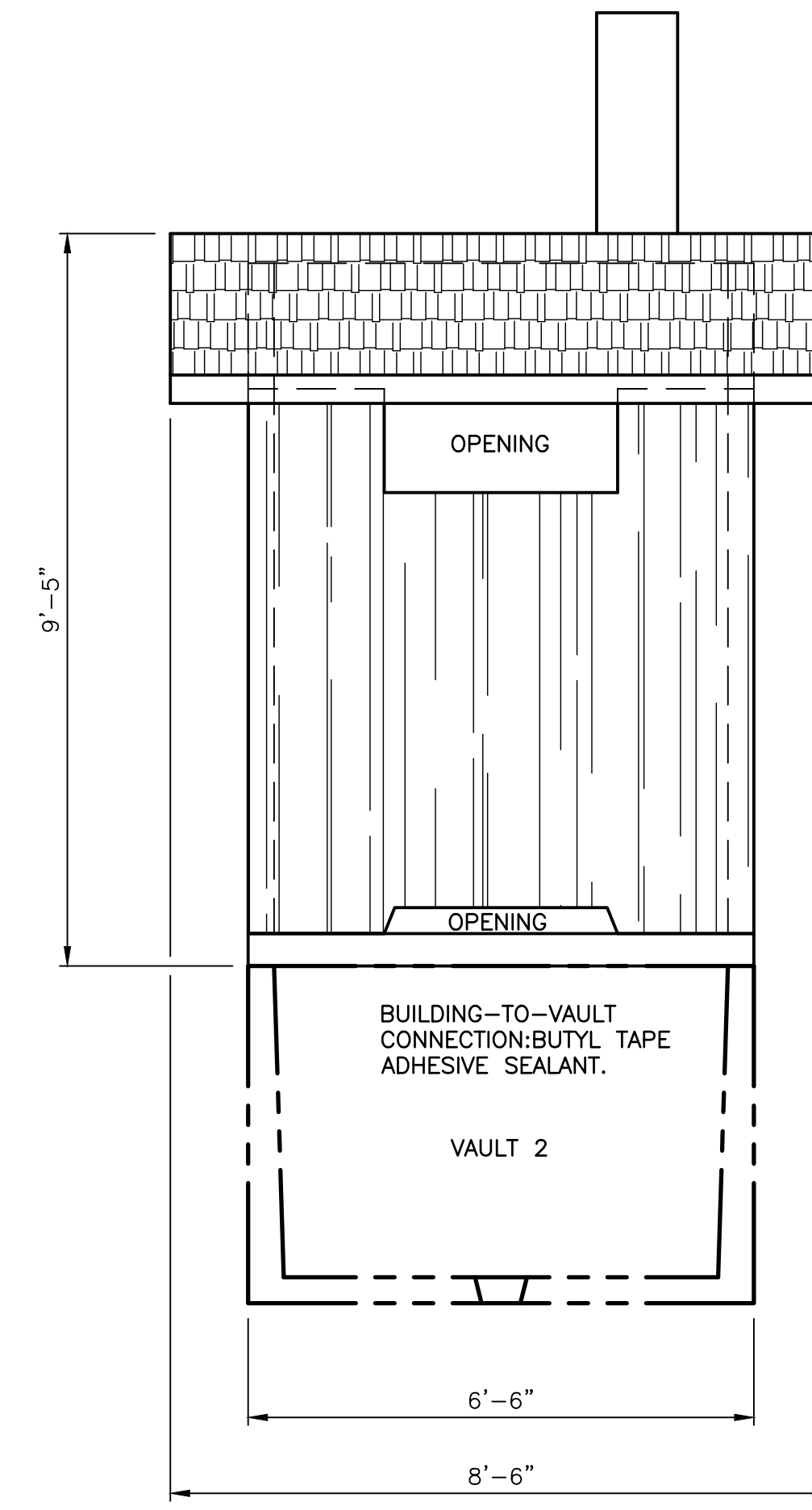
MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
ACCESSIBLE PARKING DETAILS

PROJECT NO.
KS:A278:2024-1

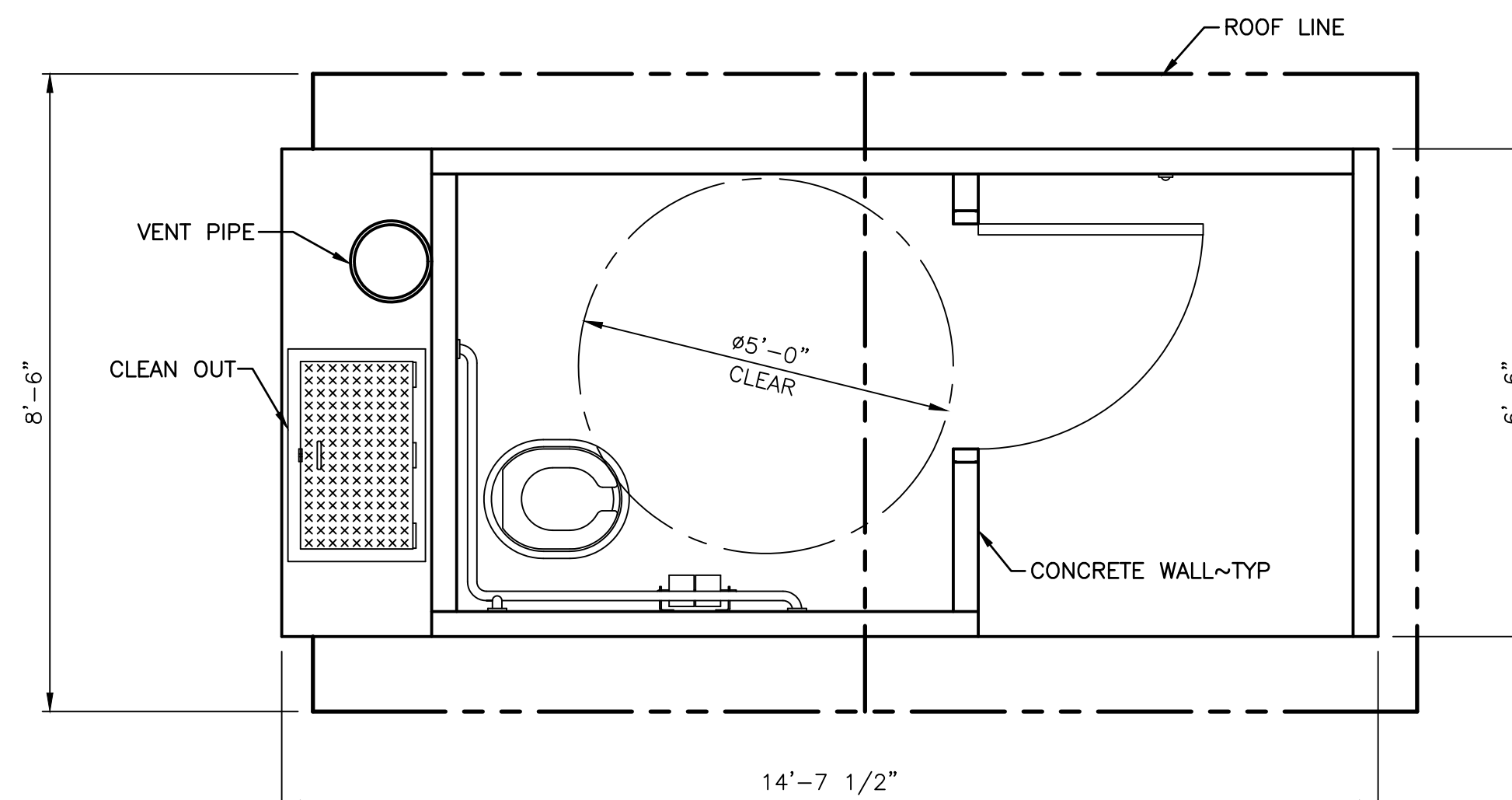
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FRONT ELEVATION
NOT TO SCALE



SIDE ELEVATION
NOT TO SCALE



CXT VAULT TOILET PLAN
NOT TO SCALE

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MATTOON LAKE ACCESS
ACCESS REDEVELOPMENT
CXT GUNNISON VAULT TOILET DETAILS

PROJECT NO.
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15 15