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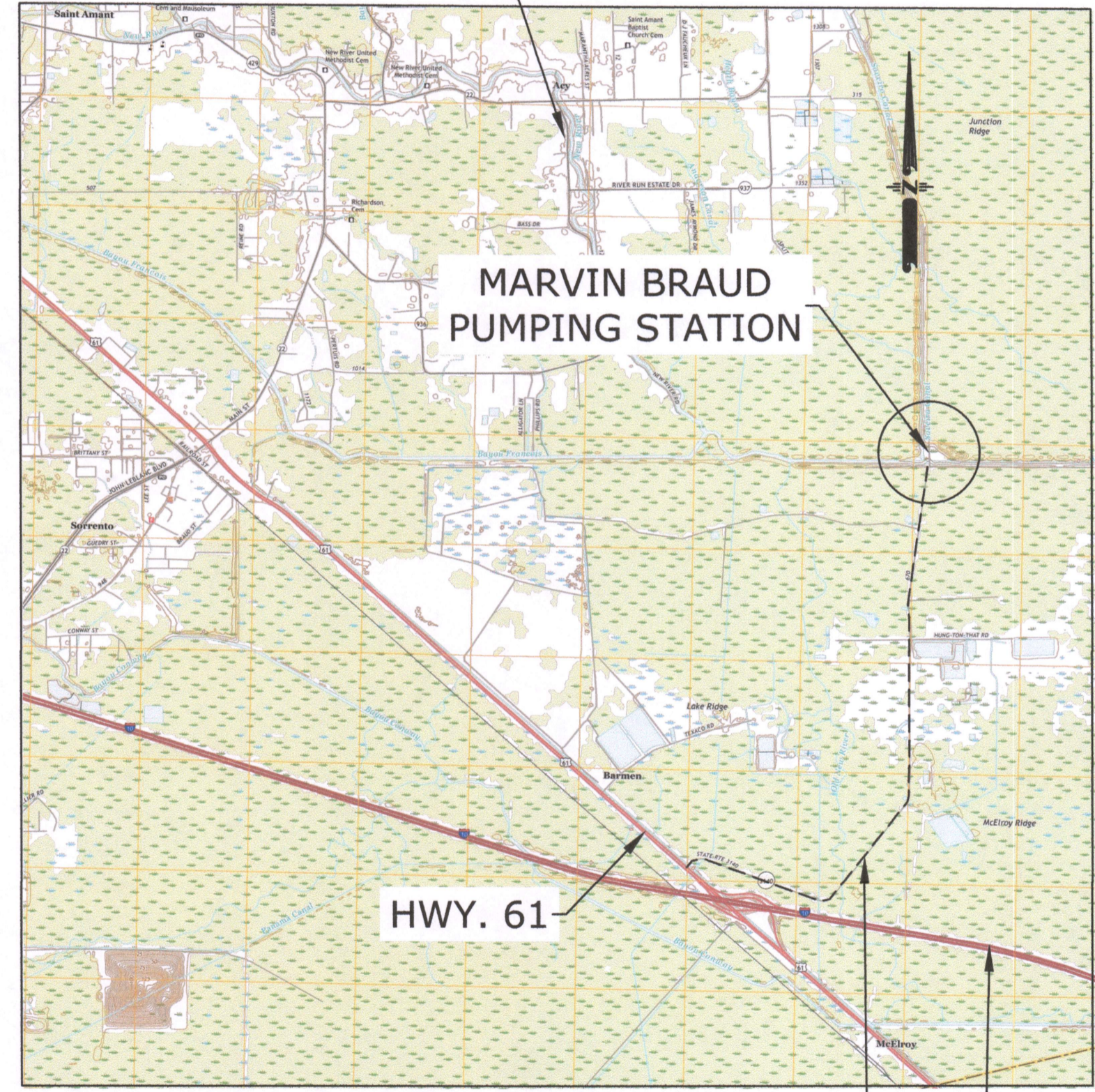
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69 TOTAL

ASCENSION PARISH
STATE OF LOUISIANA

MARVIN BRAUD PUMPING STATION
FLOOD PROTECTION AND
MACHINERY IMPROVEMENTS
PROJECT NO. PM-20-06-008

ST. AMANT, EAST ASCENSION PARISH, LOUISIANA



STATE RTE 3140 - PUMP STATION ACCESS ROAD

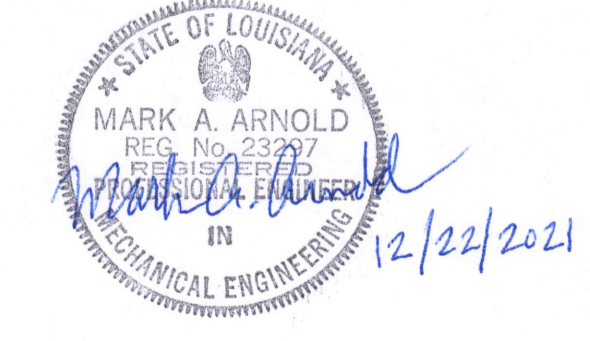
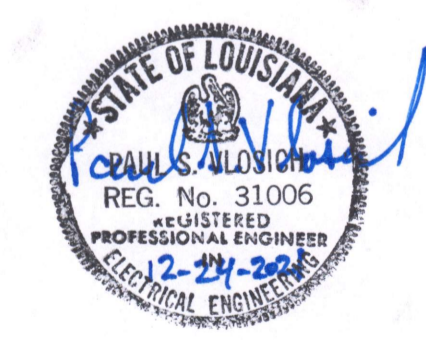
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DATUM USE: NAVD 88

PARISH PRESIDENT
CLINT COINTMENT

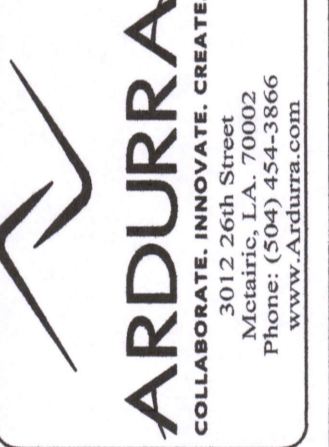
COUNCILMEMBERS

- ALVIN "COACH" THOMAS JR., DISTRICT 1
- JOEL ROBERT, DISTRICT 2
- TRAVIS TURNER, DISTRICT 3
- COREY ORGERON, DISTRICT 4
- DEMPSEY LAMBERT, DISTRICT 5
- CHASE MELACON, DISTRICT 6
- AARON LAWLER, DISTRICT 7
- TERI CASSO, DISTRICT 8
- DAL WAGUESPACK, DISTRICT 9
- JOHN CAGNOLATTI, DISTRICT 10
- MICHAEL MASON, DISTRICT 11



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: EJM	CHECKED BY: EJM	PLOT SCALE: AS SHOWN	PROJECT NO. PM-20-06-008	FILE NAME:
DRAWN BY: RR	APPROVED BY: EJM	DATE: 08/20/2021		



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

SHEET IDENTIFICATION
100

GENERAL NOTES:

1. AZIMUTHS SHOWN ARE MEASURED CLOCKWISE FROM THE NORTH.
2. ELEVATIONS ARE IN FEET AND REFER TO NAVD88 (2004.65).
3. DIMENSIONS AND/OR ELEVATIONS MARKED THUS (+) ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD.
4. DIMENSIONS AND/OR ELEVATIONS MARKED THUS (NTS) ARE NOT SHOWN TO SCALE
5. DRAWINGS ARE GENERALLY TO SCALE, BUT SHOULD NOT BE SCALED. NTS IS SHOWN ONLY WHERE DRAWING IS OBVIOUSLY OUT OF SCALE.
6. BENCH MARKS AND BASE LINES HAVE BEEN ESTABLISHED AT THE SITE BY THE .
7. FOR BORING LOGS, AVAILABLE IN ENGINEERS OFFICE
8. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS & DIMENSIONS PRIOR TO BEGINING ANY WORK ON THIS CONTRACT. ANY DISCREPANCIES DISCOVERED SHALL BE REPORTED TO THE ENGINEER.
9. CONTRACTOR SHALL CLEAR AND REMOVE ALL TRASH IN PROJECT LIMITS PRIOR TO END OF CONTRACT.
10. ONCE GIVEN NOTICE TO PROCEED CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ENTIRE LEVEE WORK AREA UNTIL THE COMPLETED PROJECT IS TURNED OVER TO THE NFS.

STEEL NOTES:

1. STRUCTURAL STEEL SHALL BE AS SPECIFIED BELOW:
 - A. W SHAPES - ASTM A-992
 - B. HP SHAPE - ASTM A-572 GR. 50
 - C. ALL OTHER - ASTM A-36
2. TO PREVENT CORROSION BY MOISTURE BETWEEN STEEL SURFACES IN CONTACT, ALL SUCH CONTACTS SHALL BE SEALED WATERTIGHT BY RUNNING A CONTINUOUS 1/8" FILLET WELD ALONG ALL EDGES OF THE CONTACT, UNLESS OTHERWISE NOTED OR WHERE SURFACES IN CONTACT ARE C.R.S. OR GALVANIZED STEEL SURFACES.
3. ALL WELDING SHALL BE ELECTRIC WELDING, WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, SEE SPECIFICATIONS.
4. WELDING SYMBOLS SHOWN ARE THOSE ADOPTED BY THE AMERICAN WELDING SOCIETY AND INDICATE ONLY SIZE AND TYPE OF WELDS REQUIRED. DETAILED INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL.
5. DIMENSIONS SHOWN ARE APPROXIMATE. THE FINAL DIMENSIONS SHALL BE FIELD DIMENSIONS MEASURED.
6. ITEMS MARKED C.R.S. SHALL BE CORROSION-RESISTANT STEEL (STAINLESS STEEL), SEE SPECIFICATIONS.

CONCRETE NOTES:

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f_c) OF 4000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
2. STABILIZATION SLAB CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f_c) OF 2500 PSI AT 28 DAYS.
3. REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH (F_y) OF 60,000 PSI.
4. REINFORCING SHALL BE SPACED TO MISS RECESSES FOR GATE LATCHES.
5. CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE PLACED AT LOCATIONS LEAST LIKELY TO IMPAIR THE INTEGRITY OF THE CONCRETE STRUCTURE. THESE ADDITIONAL CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
6. UNLESS OTHERWISE NOTED, PROVIDE 3/8" CHAMFER AT ALL EXPOSED JOINTS, EDGES, EXTERNAL CORNERS, AND VERTICAL EXPANSION JOINTS.
7. RESERVED
8. ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SP-66, AMERICAN CONCRETE INSTITUE DETAILING MANUAL - 1994.
9. REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE.
10. REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS UNLESS OTHERWISE NOTED.
11. REINFORCEMENT, WHERE NECESSARY TO AVOID OPENINGS, PIPES, EMBEDDED ITEMS AND OTHER OBSTRUCTIONS, SHALL BE BENT OR SHIFTED AS APPROVED BY THE CONTRACTING OFFICER.
12. THE EMBEDMENT AND SPLICE TABLE SHALL BE USED IN DETERMINING LAP SPLICES AND EMBEDMENT LENGTHS WHERE LENGTHS ARE NOT OTHERWISE INDICATED. SPLICE LENGTHS SHALL BE BASED ON THE SMALLER BAR BEING LAPPED. THE CONTRACTOR WILL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED IN THE DRAWINGS, WHERE ESSENTIAL TO CONSTRUCTIBILITY. SUBJECT TO APPROVAL BY THE ENGINEER. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS AND OTHER THAN ANY ADDITIONAL SPLICES REQUIRED BY THE ENGINEER, WILL BE AT THE CONTRACTOR'S EXPENSE.
13. ALL EXTERIOR FORMED SURFACES NOT COVERED BY BACKFILL SHALL BE CLASS "A" FINISH AND SURFACES COVERED BY BACKFILL SHALL BE CLASS "D" FINISH, UNLESS OTHERWISE NOTED.
14. ALL OPENINGS IN CONCRETE WALLS AND SLABS SHALL HAVE DIAGONAL REINFORCING AT EACH FACE AS SHOWN IN DETAIL BELOW.

ABBREVIATIONS

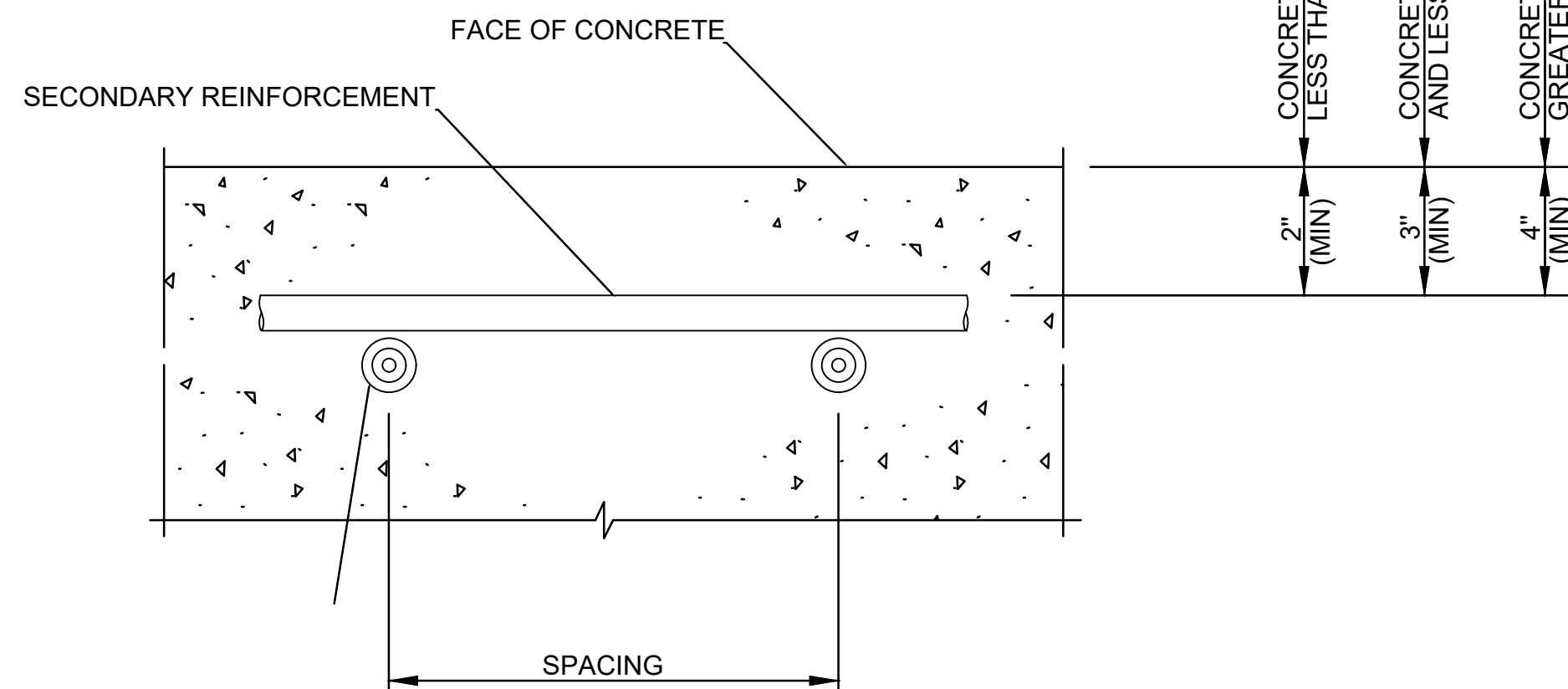
- ALT. SP. = ALTERNATE SPACING
- AZ = AZIMUTH
- B/L = BASELINE
- BP = BOAT PLATE
- BF = BOTTOM FACE
- BL = BOTTOM LAYER
- C = CENTER
- CB = CATCH BASIN
- C.I. = CAST IRON
- CJ = CONSTRUCTION JOINT
- CL = CLEAR COVER
- C/L OR ϕ = CENTER LINE
- C.R.S. = CORROSION-RESISTANT STEEL
- ϕ = DIAMETER
- D = DRAIN
- D.I. = DROP INLET
- D.P. = DRAIN PIPE
- D/S = DOWNSTREAM
- D.V. = DRAIN VALVE
- D.V. MH. = DRAIN VALVE MANHOLE
- E = ELECTRICAL
- EF = EACH FACE
- EL. = ELEVATION
- ES = EQUALLY SPACED
- F.H. = FIRE HYDRANT
- FF = FAR FACE
- FS = FAR SIDE
- G = GAS
- H.D.G. = HOT DIPPED GALVANIZED
- H.S. = HIGH STRENGTH
- LP = LIGHT POLE
- LS = LIGHT STANDARD
- MH = MANHOLE
- NF = NEAR FACE
- NS = NEAR SIDE
- N.T.S. = NOT TO SCALE
- O.C. = ON CENTER
- OPT. = OPTIONAL
- OS = OFFSET
- P = POWER
- P.C. = POINT OF CURVATURE
- P.T. = POINT OF TANGENCY
- S = SEWER
- SB/L = SUBBASELINE
- S.C.O. = SEWER CLEANOUT
- SS = STAINLESS STEEL
- STD. HK. = STANDARD HOOK
- STA. = STATION
- T = TELEPHONE
- TD = TRENCH DRAIN
- TF = TOP FACE
- TEL.M.H. = TELEPHONE MANHOLE
- T.R. = THREADED ROD
- TL = TOP LAYER
- T.O.C. = TOP OF CONCRETE
- T.O.P. = TOP OF PIPE
- TP = TEST PILE
- U.O.N. = UNLESS OTHERWISE NOTED
- U/S = UPSTREAM
- W = WATER
- W/L = WALL LINE
- W.M. = WATER METER
- W.V. = WATER VALVE

REINFORCEMENT EMBEDMENT AND SPLICE TABLES - 4000 PSI

BAR SIZE	BASIC TABLE				ALTERNATE TABLE			
	MINIMUM EMBEDMENT LENGTH, INCHES		MINIMUM LAP LENGTH INCHES		MINIMUM EMBEDMENT LENGTH, INCHES		MINIMUM LAP LENGTH INCHES	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	18	14	24	18	12	12	14	12
4	25	19	32	25	15	12	19	15
5	31	24	40	31	18	14	24	18
6	37	28	48	37	22	17	29	22
7	54	42	70	54	32	25	42	32
8	62	47	80	62	37	28	48	37
9	69	53	90	69	42	32	54	42
10	77	59	100	77	46	36	60	46
11	85	65	110	85	51	39	66	51

NOTES:

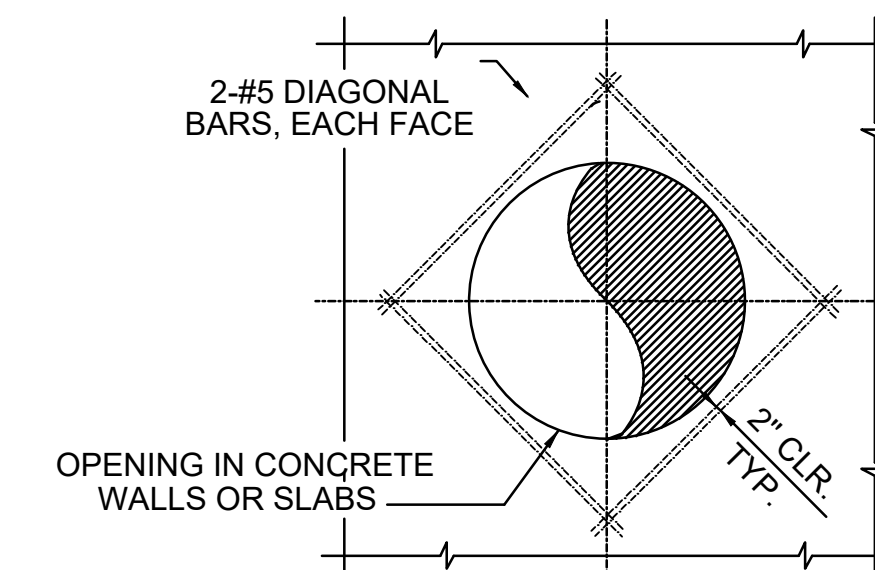
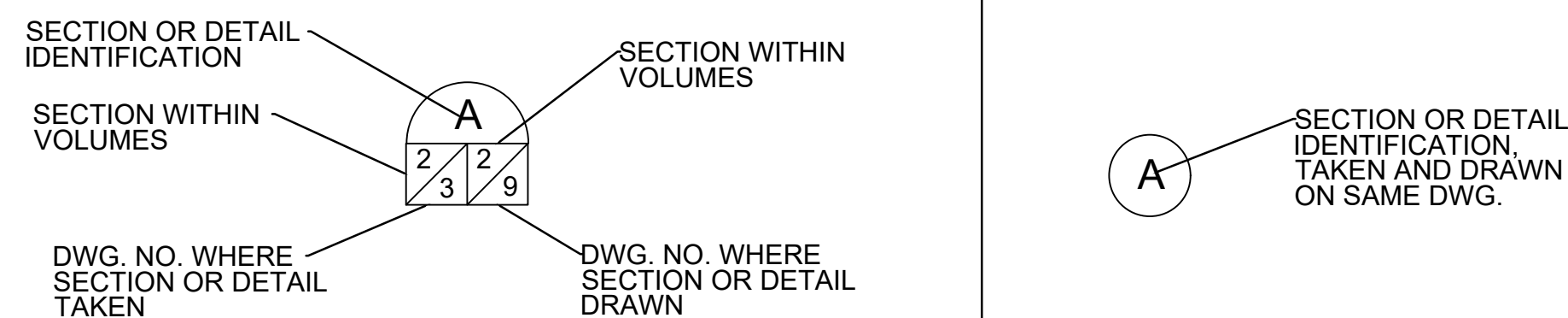
1. USE THE BASIC TABLE IF ALL THE FOLLOWING CONDITIONS ARE MET:
 - A) CENTER-TO-CENTER BAR SPACING LATERALLY IS AT LEAST 3 BAR DIAMETERS.
 - B) DISTANCE FROM THE CENTER OF A BAR TO THE NEAREST CONCRETE SURFACE MUST BE AT LEAST 2 BAR DIAMETERS.
2. THE ALTERNATE TABLE MAY BE USED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - A) CENTER-TO-CENTER BAR SPACING LATERALLY IS AT LEAST 5 BAR DIAMETERS.
 - B) DISTANCE FROM THE CENTER OF A BAR TO THE NEAREST CONCRETE SURFACE MUST BE AT LEAST 2.5 BAR DIAMETERS.
3. IF CONCRETE COVER OR EDGE DISTANCE IS LESS THAN 1 BAR DIAMETER OR THE CENTER-TO-CENTER BAR SPACING LATERALLY IS LESS THAN 3 BAR DIAMETERS, SEE ACI 318 FOR APPROPRIATE GUIDANCE.
4. TOP BARS ARE HORIZONTAL BARS AND BARS INCLINED LESS THAN 45 DEGREES WITH RESPECT TO A HORIZONTAL PLANE WHICH ARE PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
5. THE TABLES SHOWN ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING BARS. IF EPOXY-COATED BARS ARE USED, SEE ACI 318 FOR ADDITIONAL CONSIDERATIONS.
6. PUMPING STATION BENCHMARK LOCATED ON NORTH BOAT LOCK WALL NEAR NORTHWEST CORNER ON TOP OF CONCRETE WALL. SEE SHEET 200.



REINFORCEMENT CLEARANCE DETAIL

NTS

SECTION OR DETAIL SYMBOL

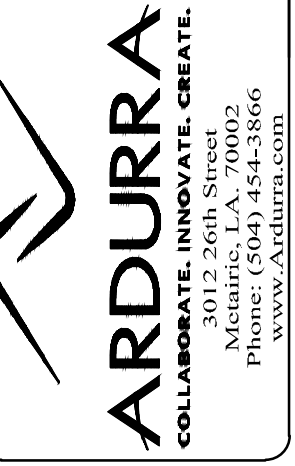


DIAGONAL REINFORCING AT OPENINGS IN CONCRETE WALLS OR SLABS



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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

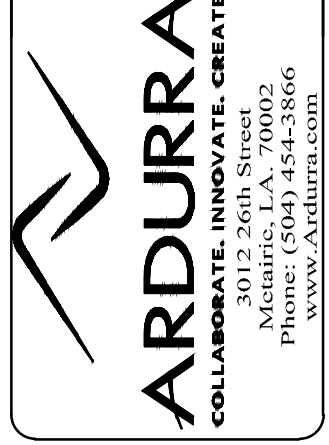
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

SHEET IDENTIFICATION
101



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NO.	REVISION DESCRIPTION
DATE	BY

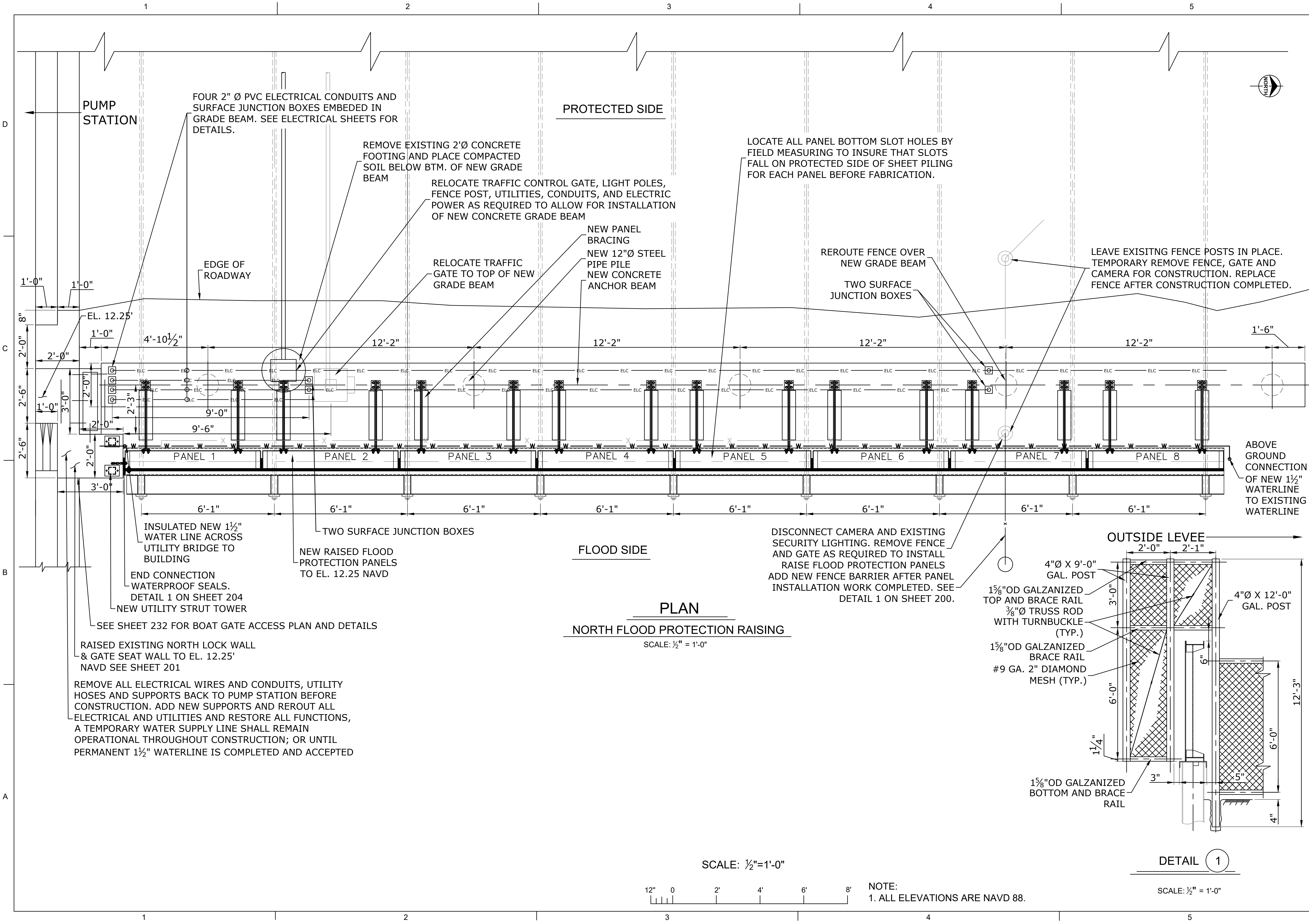
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CHECKED BY:	E.M.
DATE:	06/03/2021
PROJECT NO.:	PA-20-08-008
FILE NAME:	



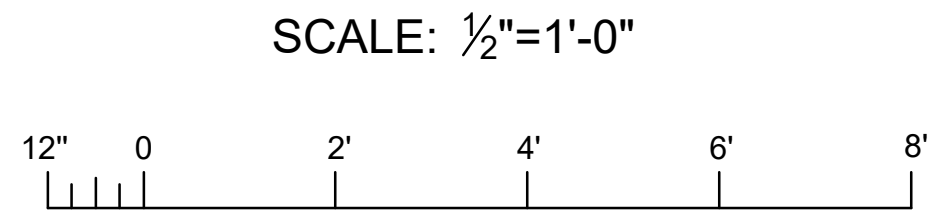
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NORTH FLOOD PROTECTION
PLAN

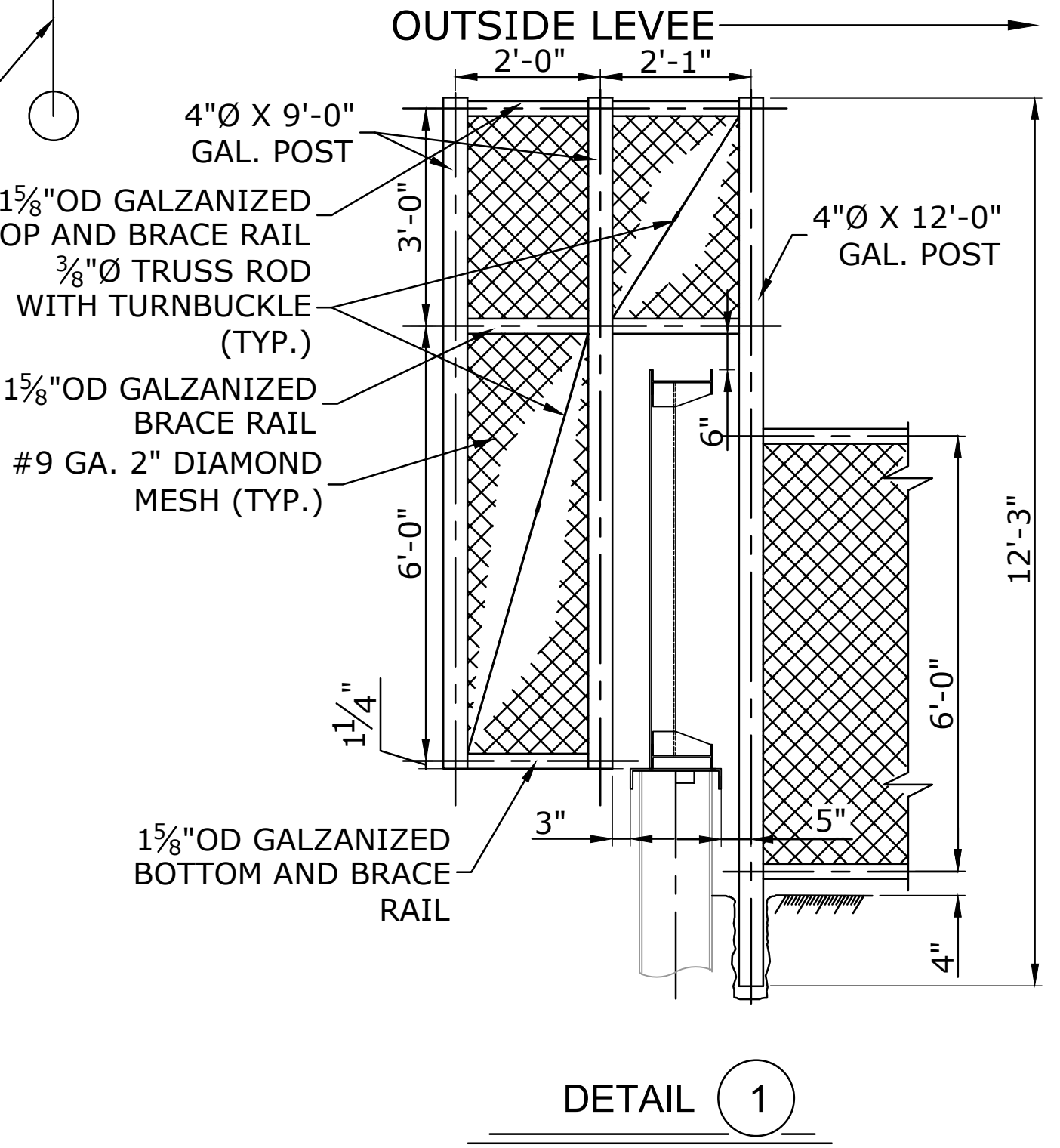
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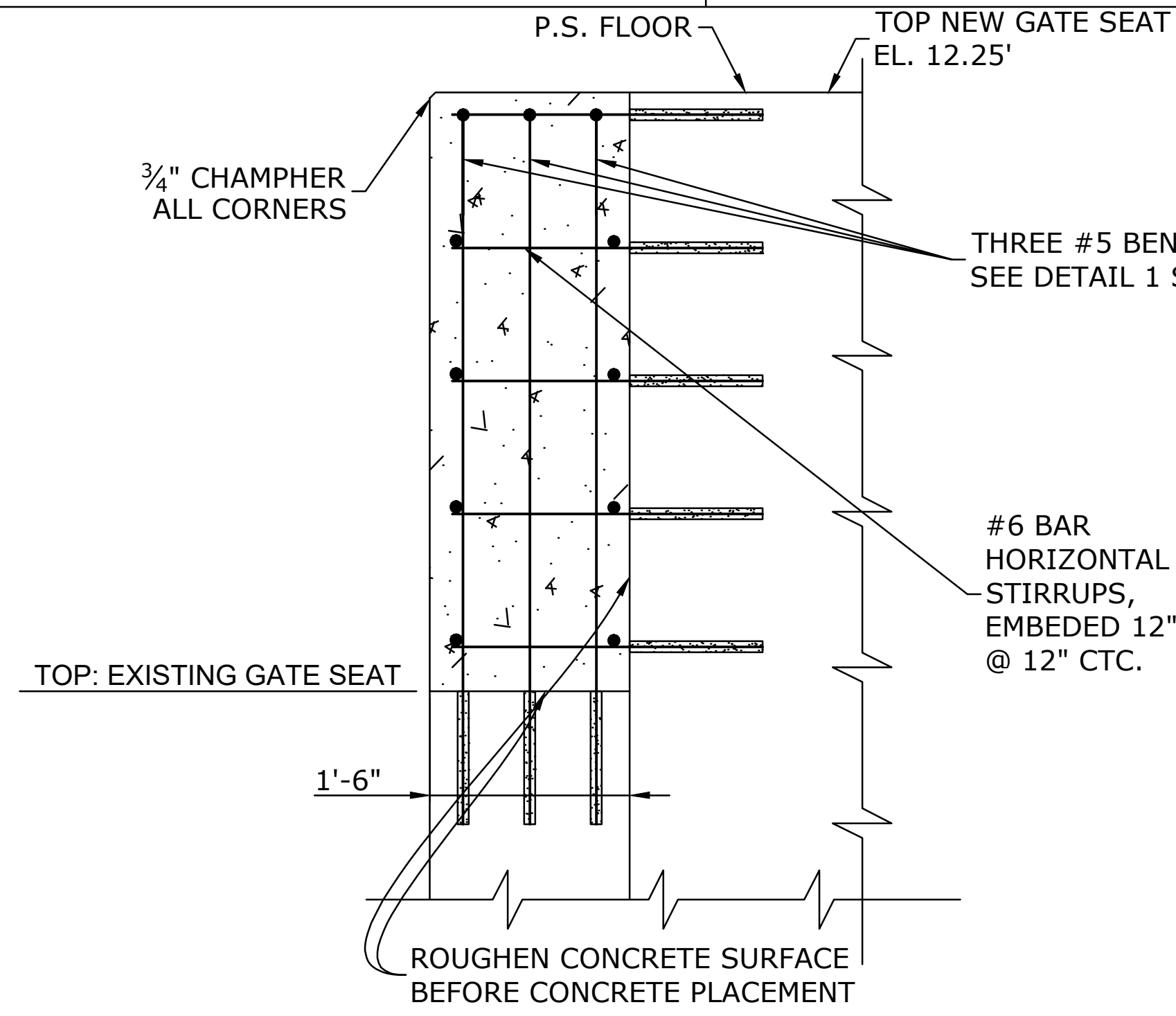
PLAN
NORTH FLOOD PROTECTION RAISING
SCALE: 1/2" = 1'-0"



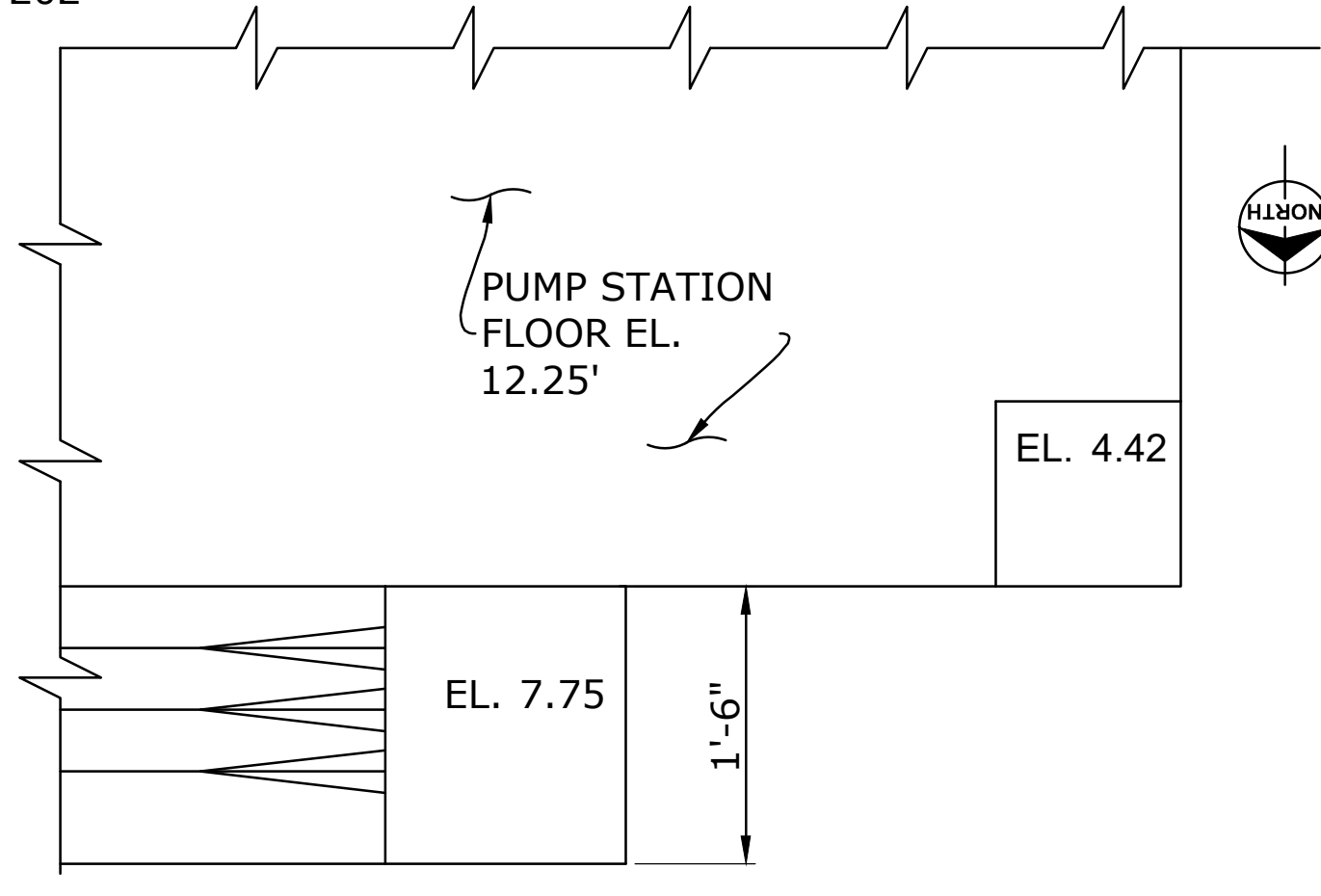
NOTE:
1. ALL ELEVATIONS ARE NAVD 88.



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



SECTION B
SCALE: 1" = 1'-0"



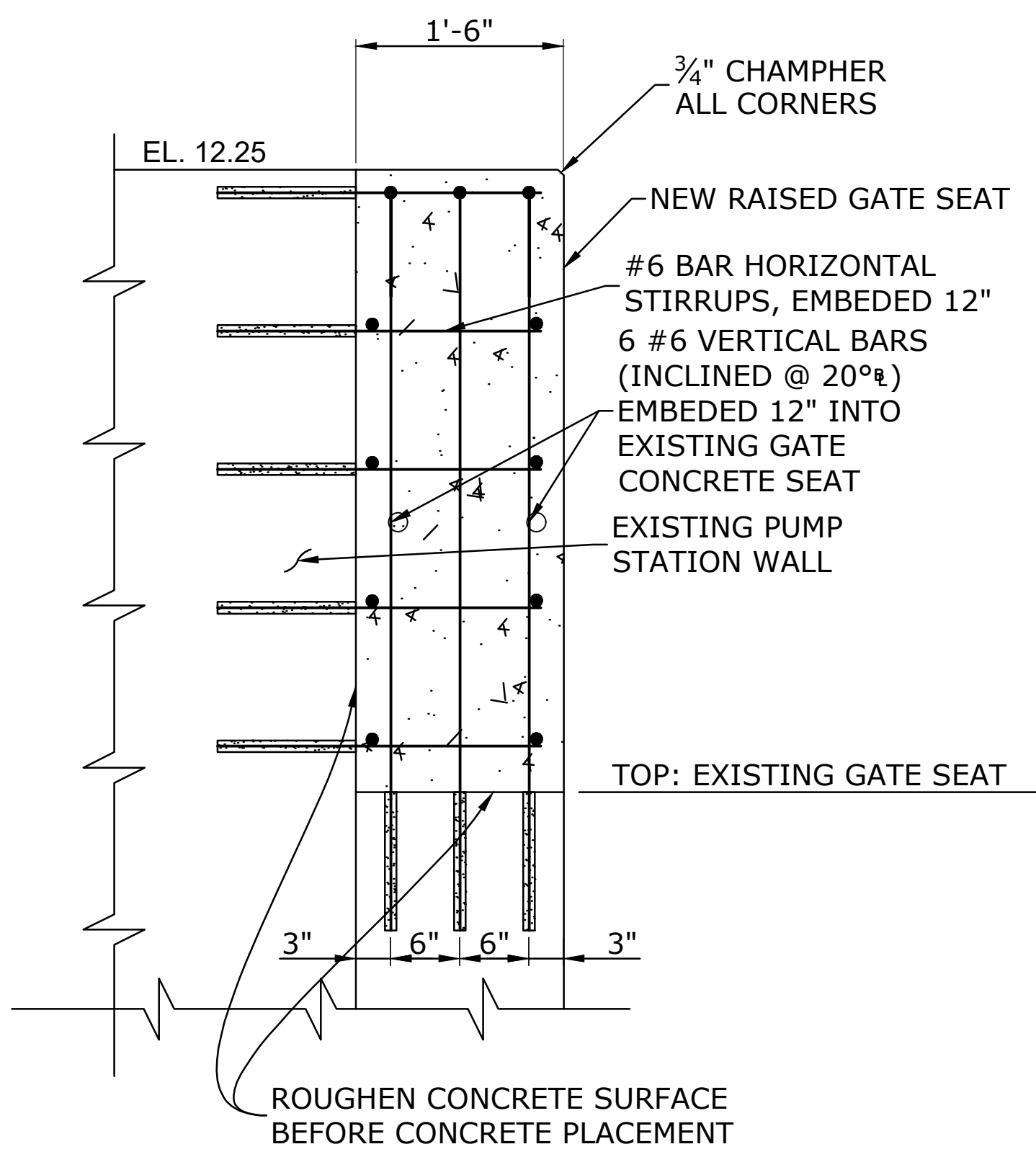
PLAN - SOUTH LOCK WALL
EXISTING GATE SEAT
SCALE: 1" = 1'-0"

NOTES:

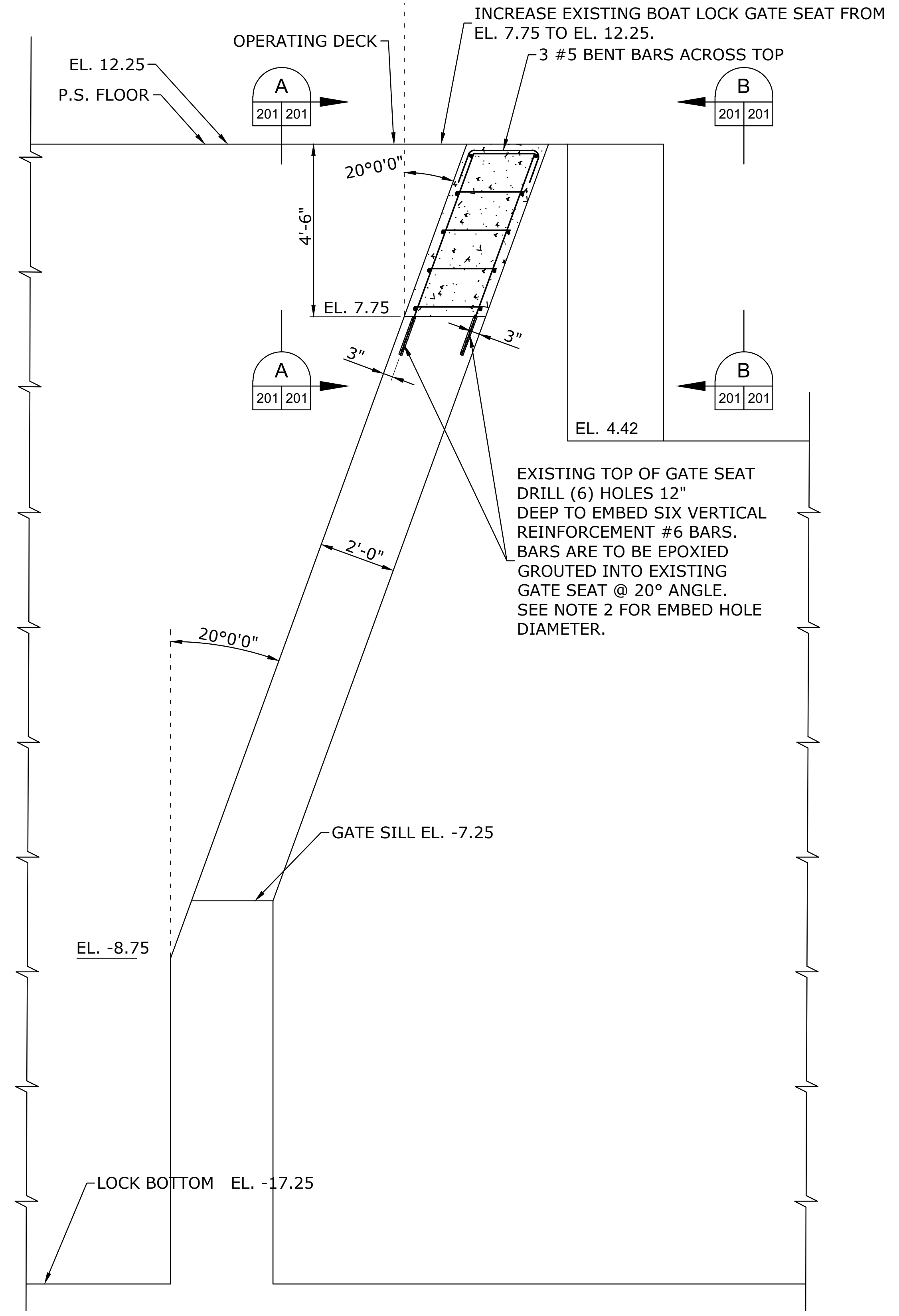
1. MAINTAIN A MINIMUM OF 2" CLEAR DISTANCE COVER ON ALL REINFORCEMENT.
2. DRILL HOLES MIN. 12" DEEP TO EMBED RE-BARS. FOLLOW ADHESIVE EPOXY MANUFACTURER'S INSTRUCTIONS FOR HOLE DIAMETER AND INSTALLATION.
3. ADHESIVE EPOXY IS HILTI HIT-HY 100 OR APPROVED EQUAL.
4. ALL ELEVATIONS ARE NAVD 88.

NOTES ON CONCRETE CORING:

1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
2. FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ANCHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSITION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
3. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
4. IF THE DRAWING GATE FRAMES AND LIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS AND SUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.



SECTION A
SCALE: 1" = 1'-0"

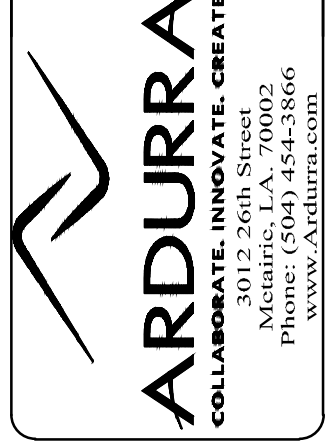


ELEVATION - SOUTH LOCK WALL
BOAT LOCK GATE SEAT RAISING
SCALE: 1/2" = 1'-0"



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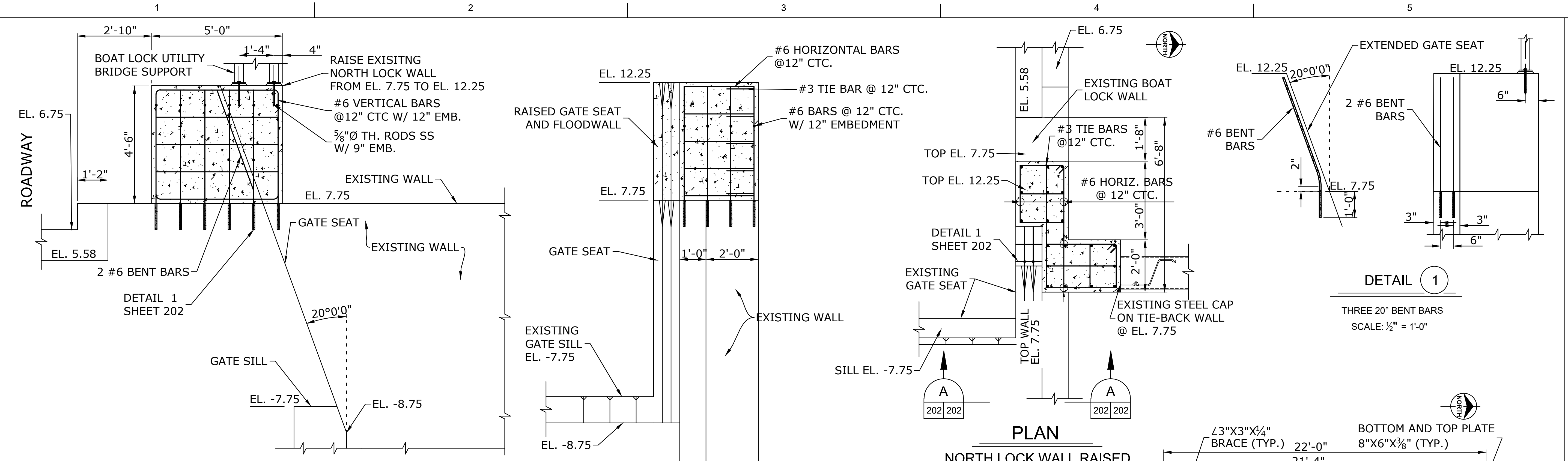
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CHECKED BY:	E.M.
PLOT SCALE:	DATE:
AS SHOWN	06/03/2021
PROJECT NO.	FILE NAME:
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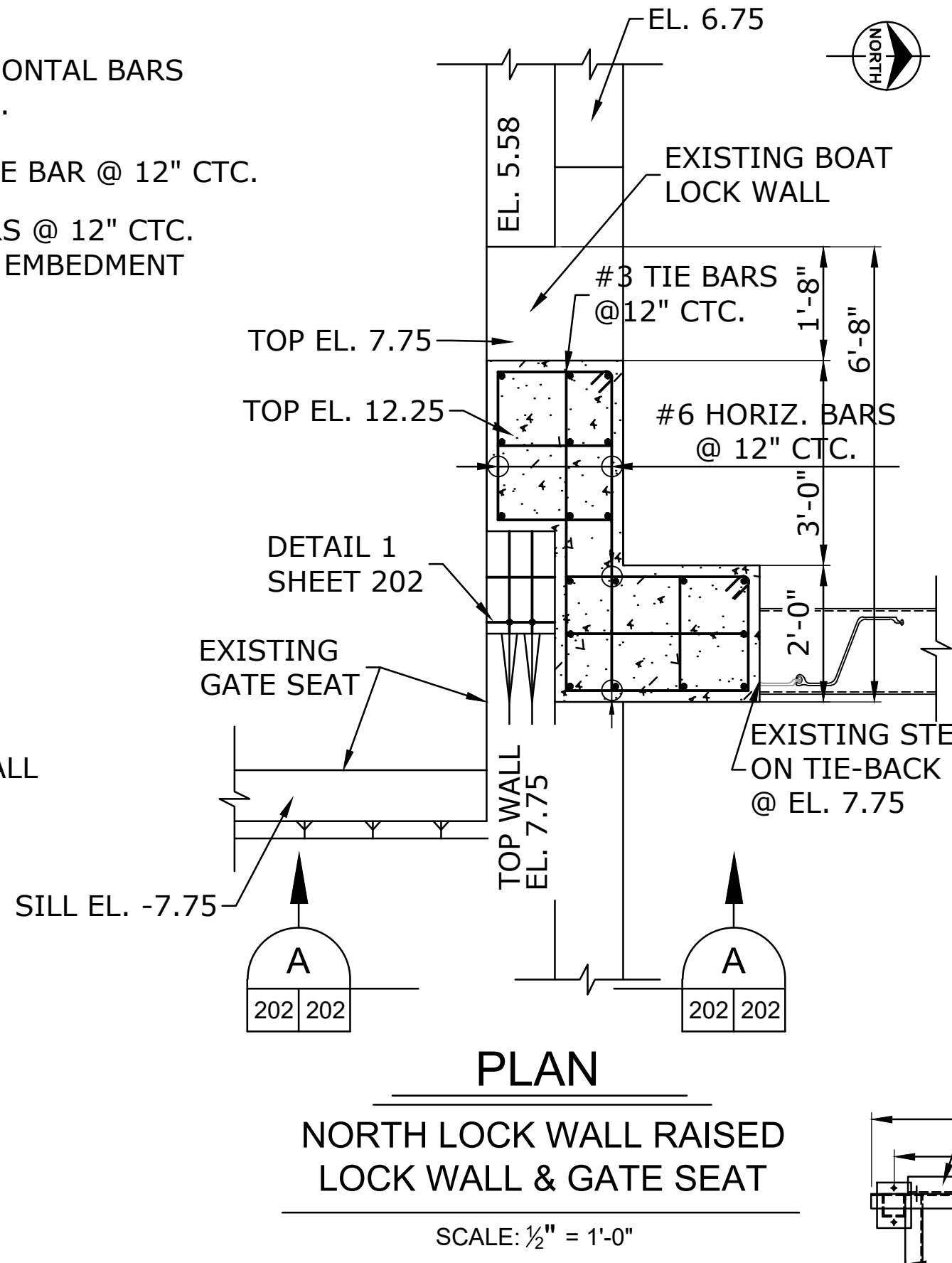
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
SOUTH RAISING GATE LOCK WALL
RAISING ELEVATIONS & SECTIONS

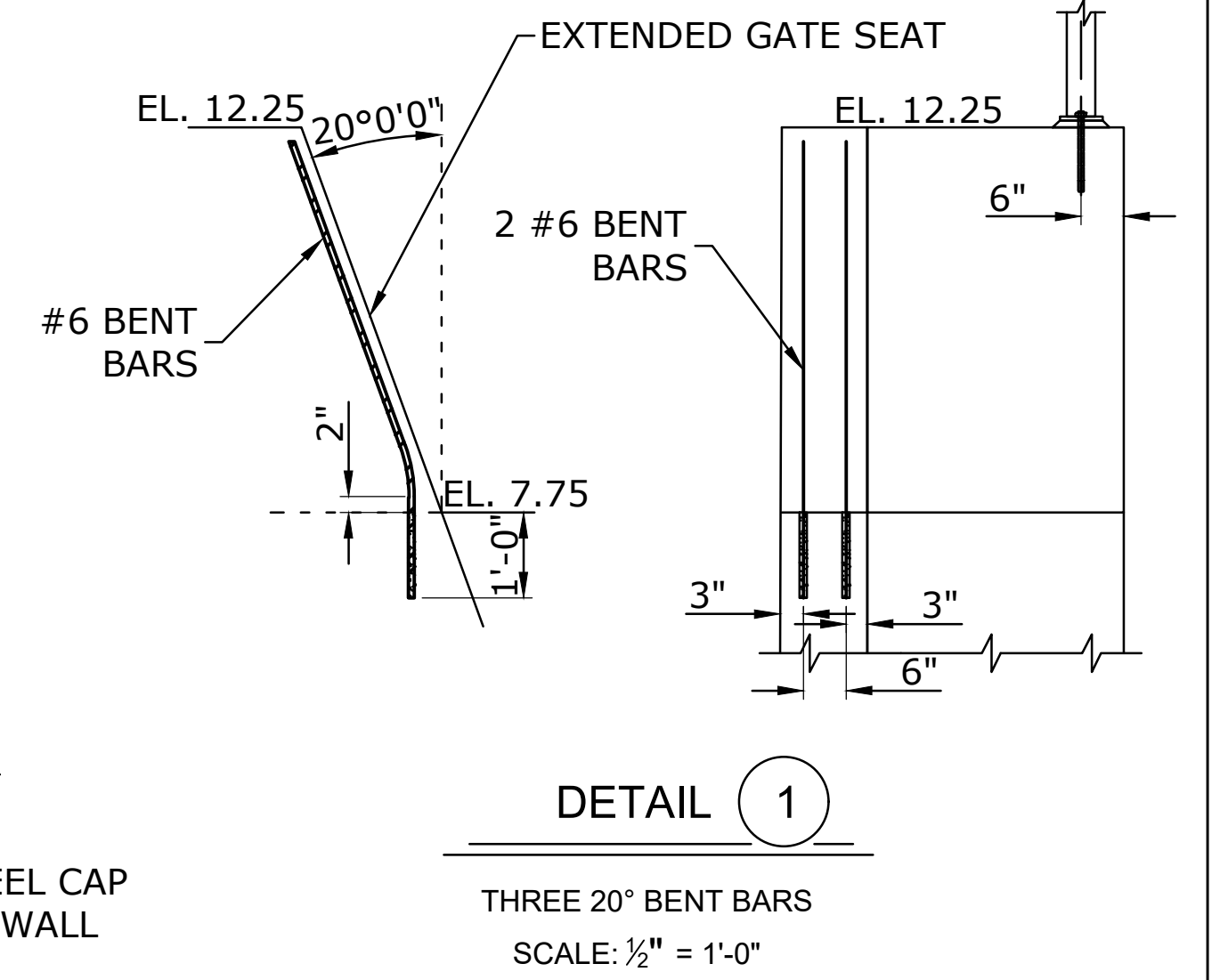
SHEET IDENTIFICATION
201



ELEVATION
RAISED NORTH LOCK WALL
SCALE: 1/2" = 1'-0"

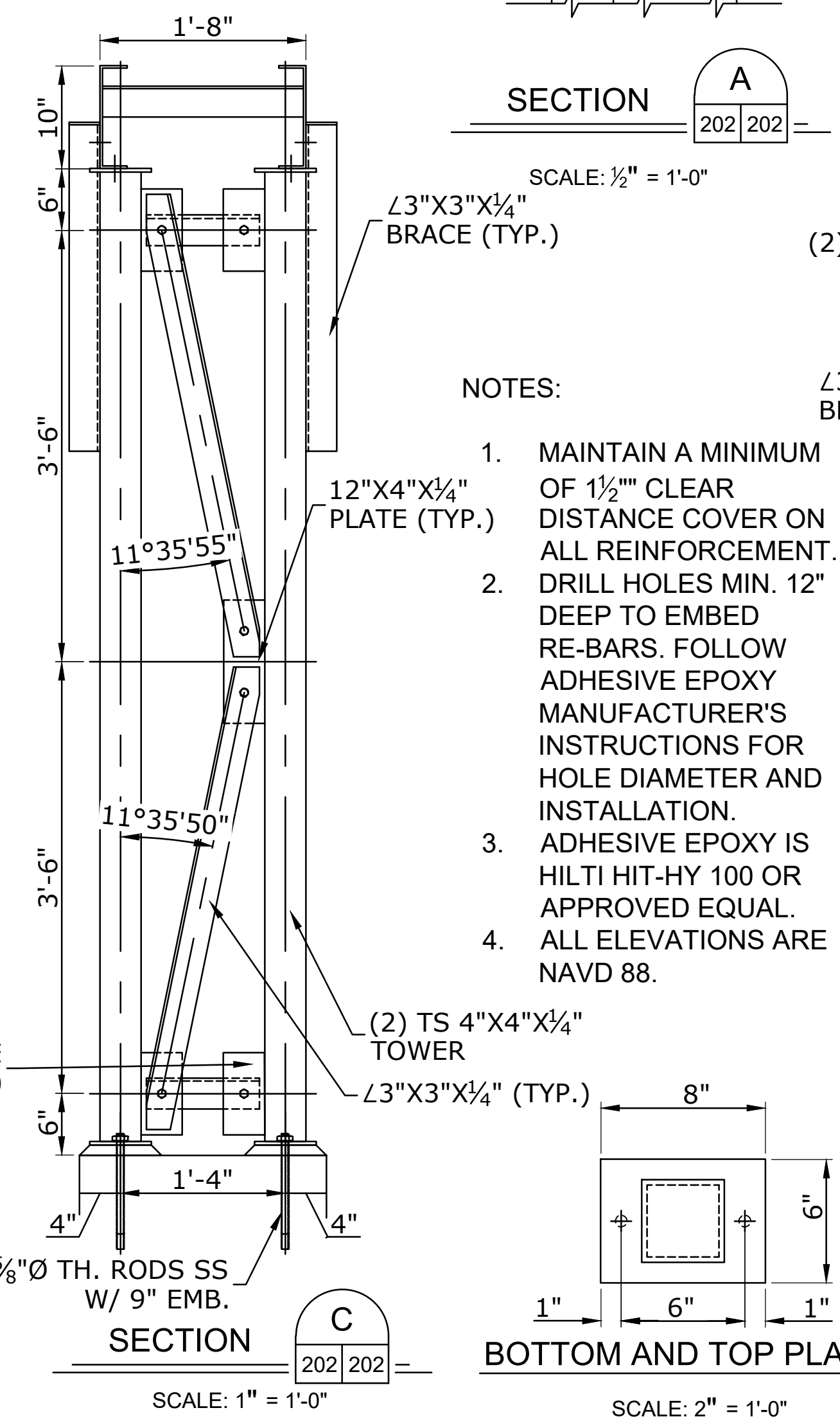
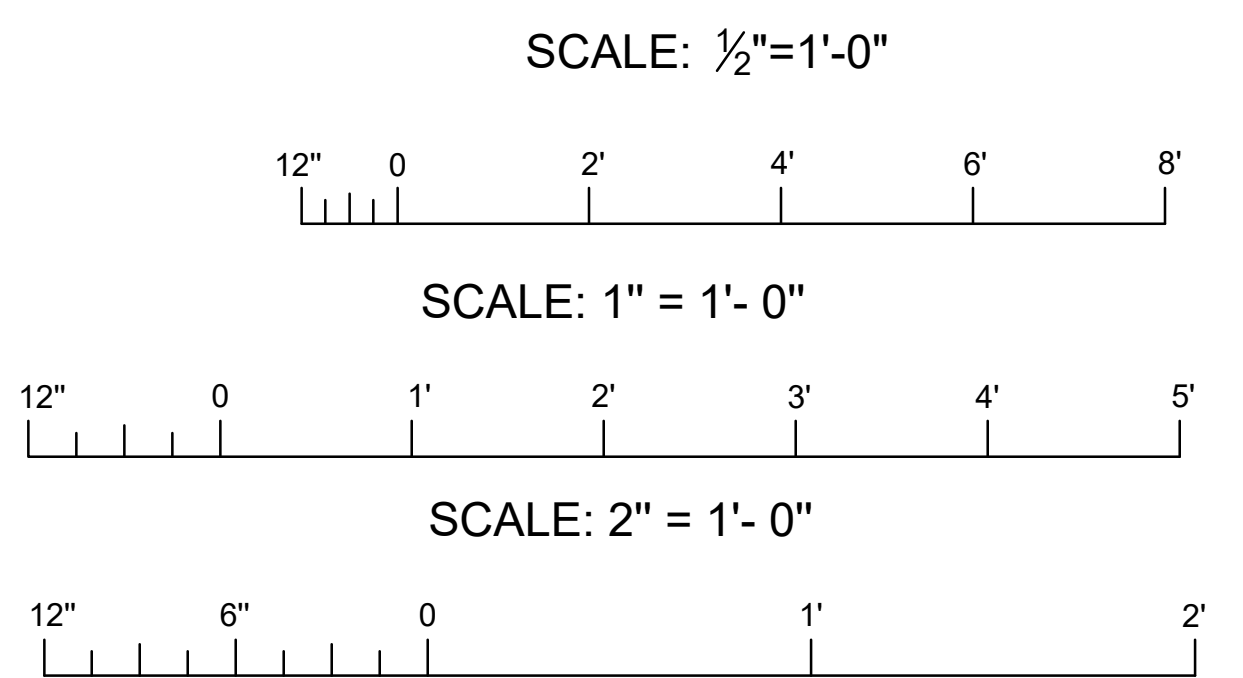


PLAN
NORTH LOCK WALL RAISED
LOCK WALL & GATE SEAT
SCALE: 1/2" = 1'-0"

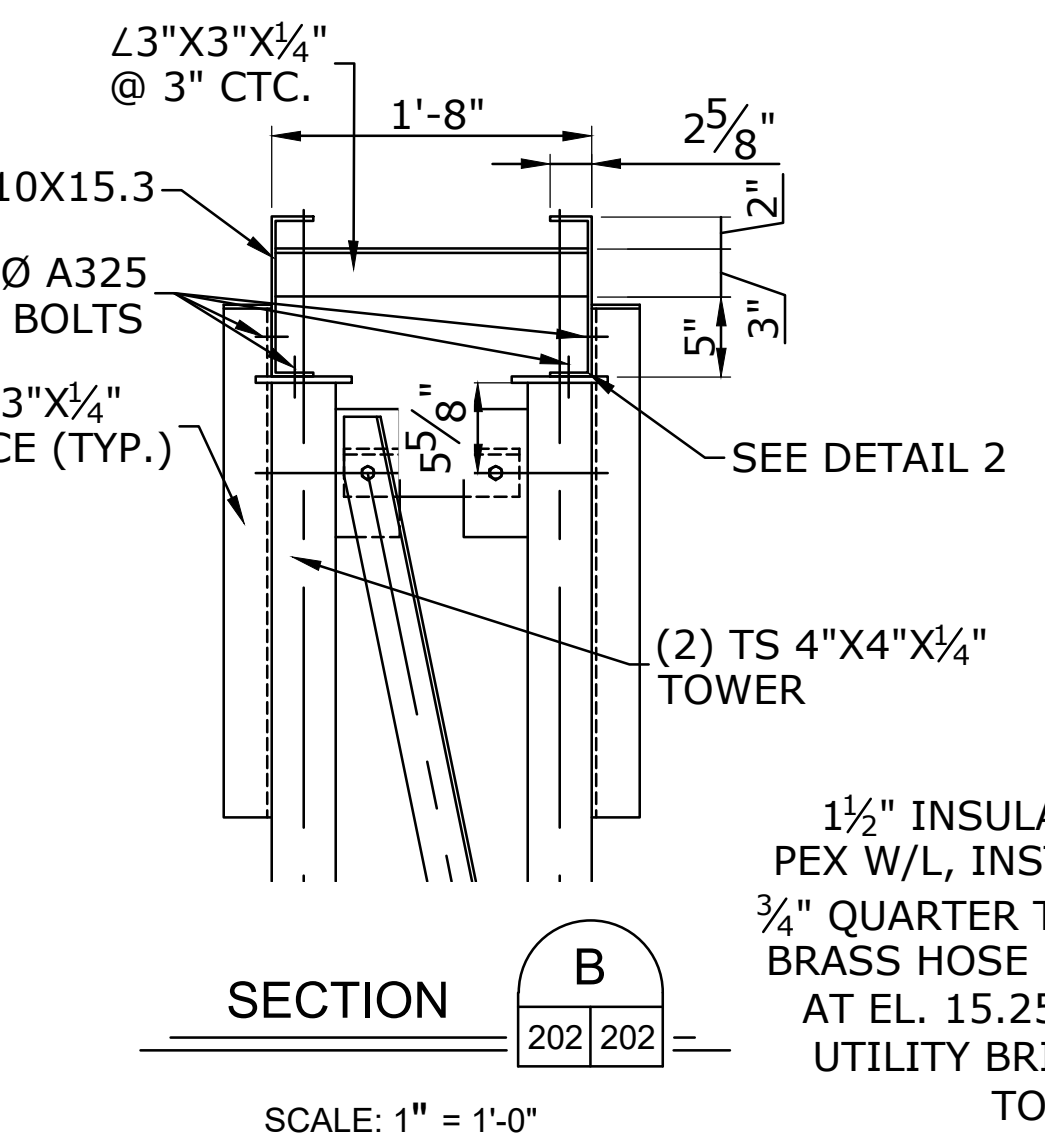


DETAIL 1
THREE 20° BENT BARS
SCALE: 1/2" = 1'-0"

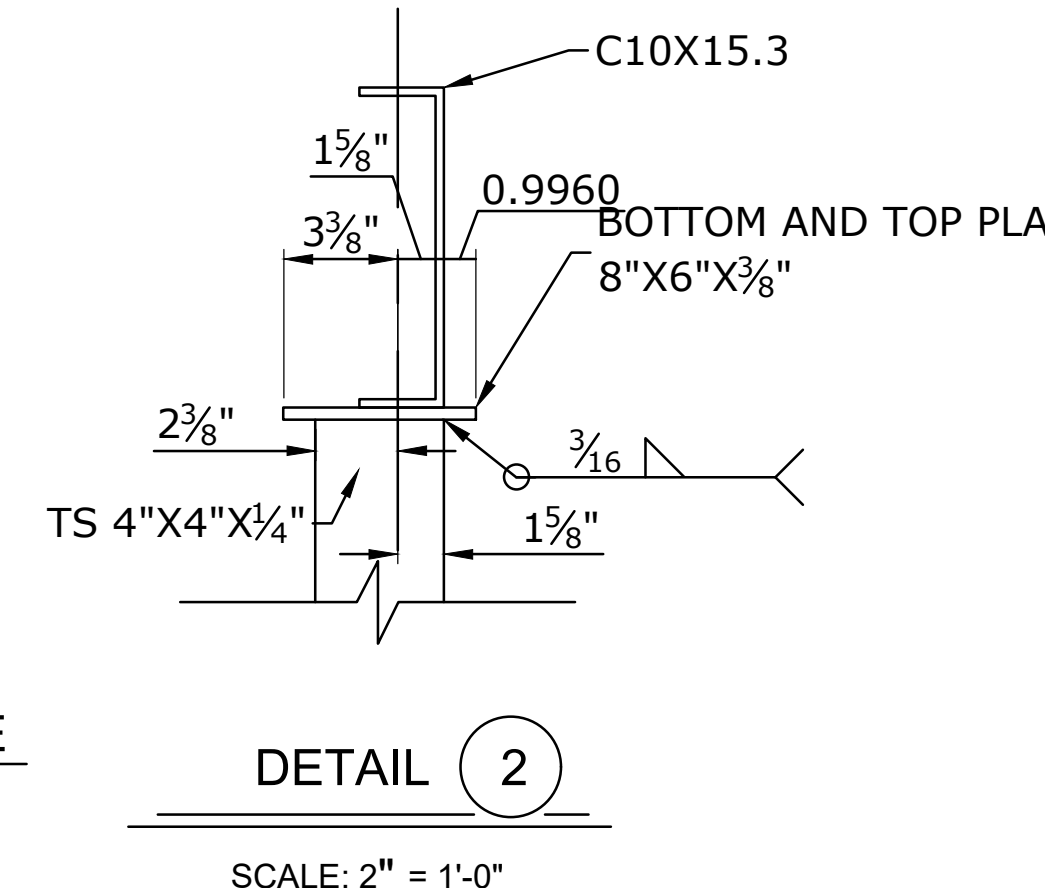
- NOTES ON CONCRETE CORING:**
1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
 2. FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ANCHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSTION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
 3. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
 4. IF THE DRAWING GATE FRAMES AND LIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS AND SUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.



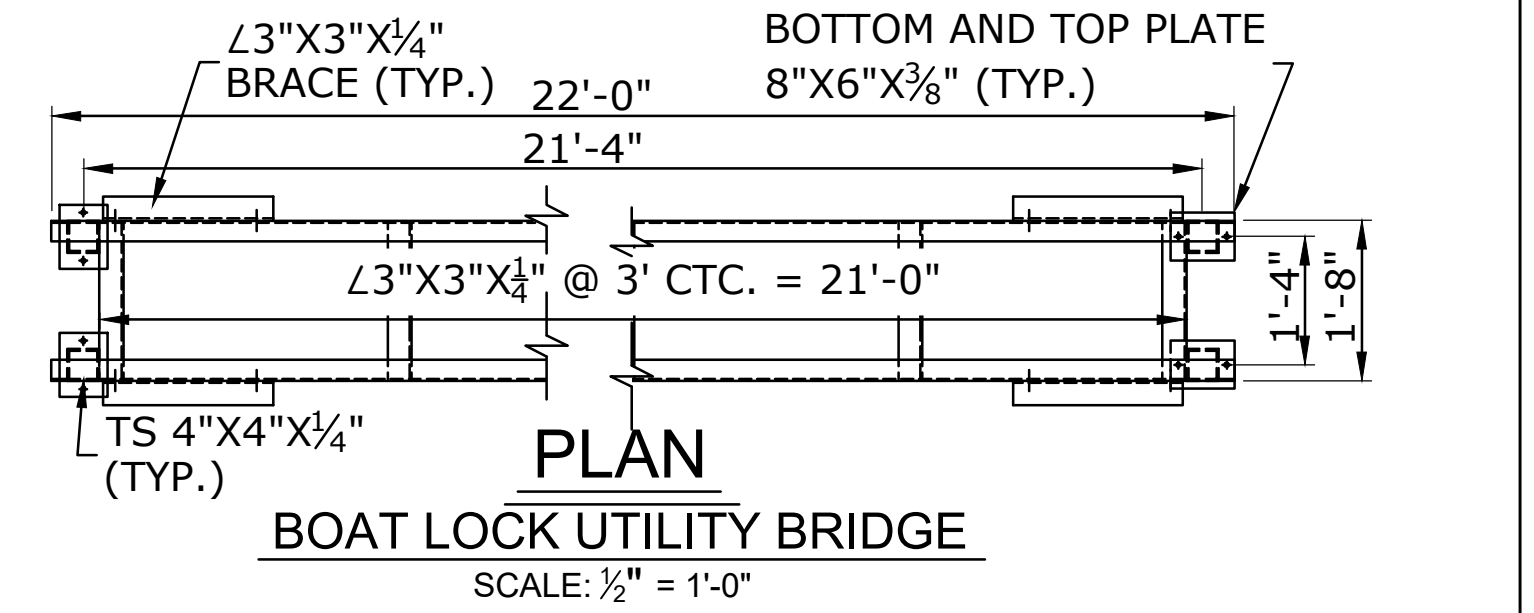
- NOTES:**
1. MAINTAIN A MINIMUM OF 1/2" CLEAR DISTANCE COVER ON ALL REINFORCEMENT.
 2. DRILL HOLES MIN. 12" DEEP TO EMBED RE-BARS. FOLLOW ADHESIVE EPOXY MANUFACTURER'S INSTRUCTIONS FOR HOLE DIAMETER AND INSTALLATION.
 3. ADHESIVE EPOXY IS HILTI HIT-HY 100 OR APPROVED EQUAL.
 4. ALL ELEVATIONS ARE NAVD 88.



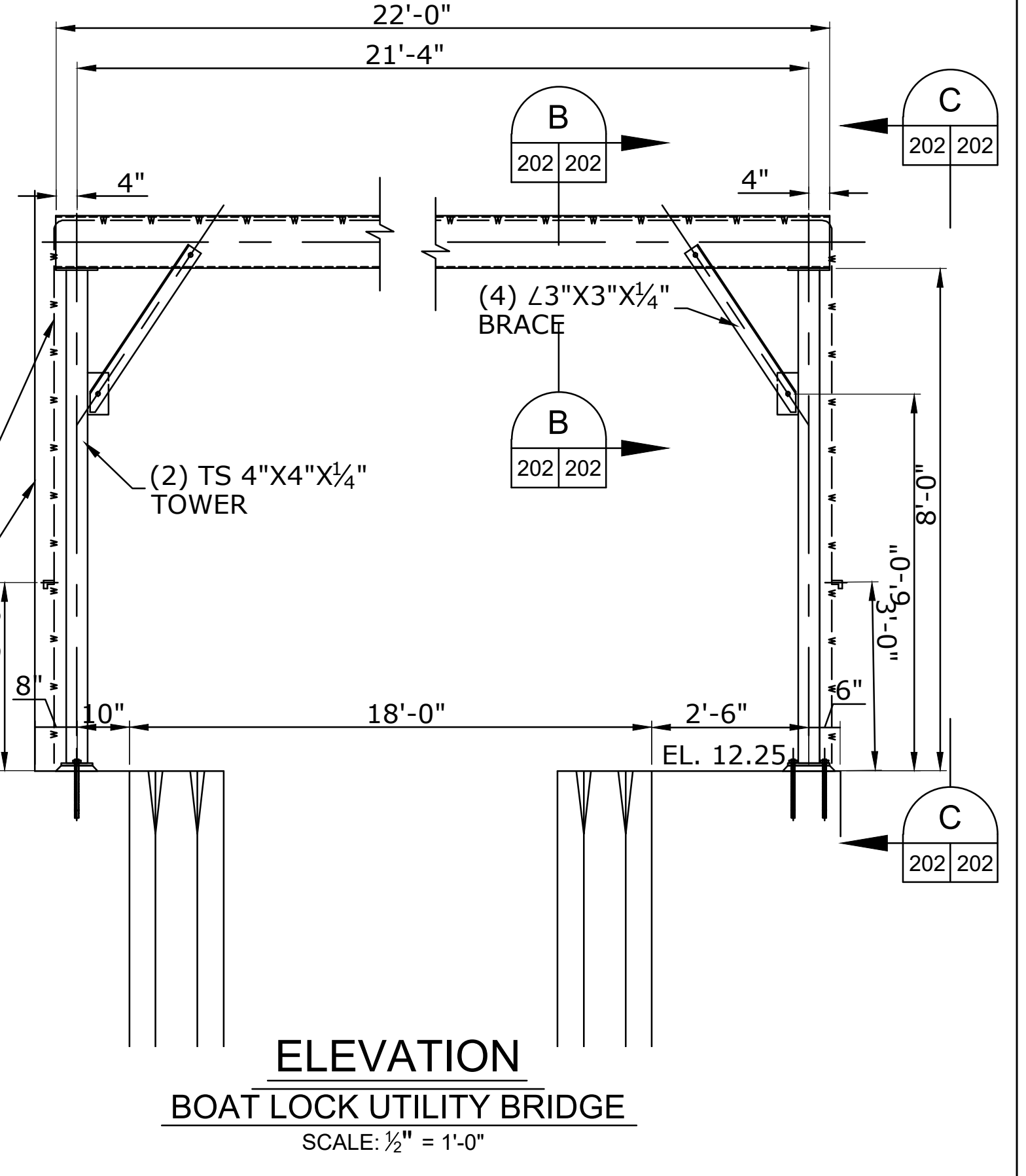
SECTION B
SCALE: 1" = 1'-0"



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



PLAN
BOAT LOCK UTILITY BRIDGE
SCALE: 1/2" = 1'-0"



ELEVATION
BOAT LOCK UTILITY BRIDGE
SCALE: 1/2" = 1'-0"

**PARISH OF ASCENSION
LOUISIANA**

**ISSUED FOR
CONSTRUCTION**

DESIGNED BY: E.M.	APPROVED BY: E.M.	DATE: 06/03/2021	BY:
CHECKED BY: E.M.	DATE: 06/03/2021	PROJECT NO: PA-20-06-008	REVISION DESCRIPTION
PLOT SCALE: AS SHOWN		FILE NAME:	NO.

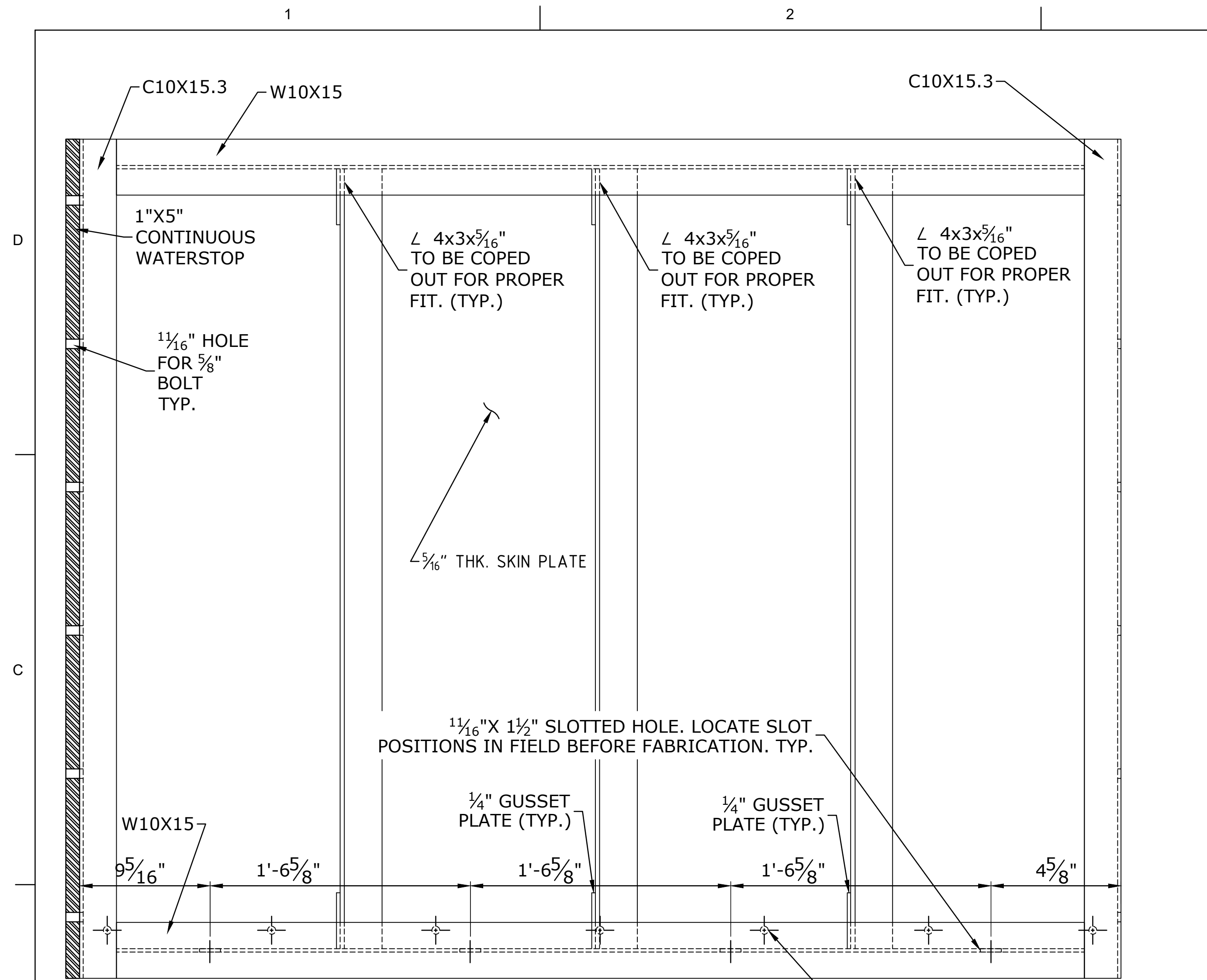
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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
RAISING NORTH BENT GATE LOCK WALL
PLAN, ELEVATION, DETAILS

SHEET IDENTIFICATION
202

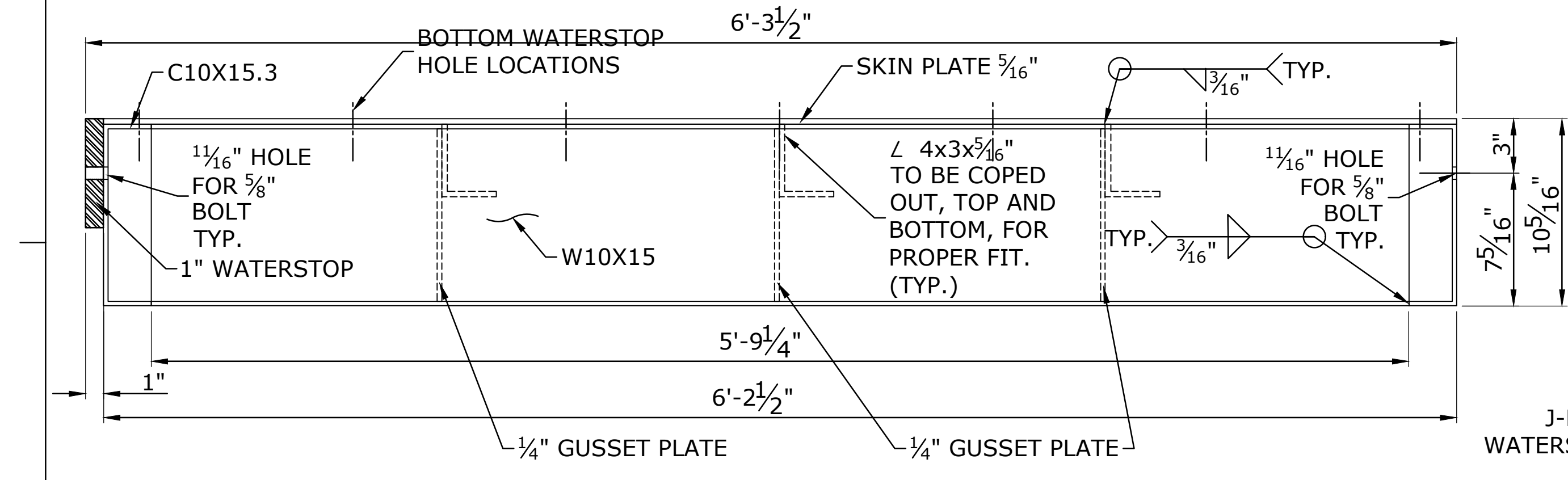
S:\CURRENT\2000\2018-1867 ACENSION PARISH\Marvin Braud\MARVIN BRAUD NFP.dwg



PROTECTED SIDE ELEVATION
TYPICAL FLOOD PANELS EXCEPT PANEL 1

SCALE: 2" = 1'-0"

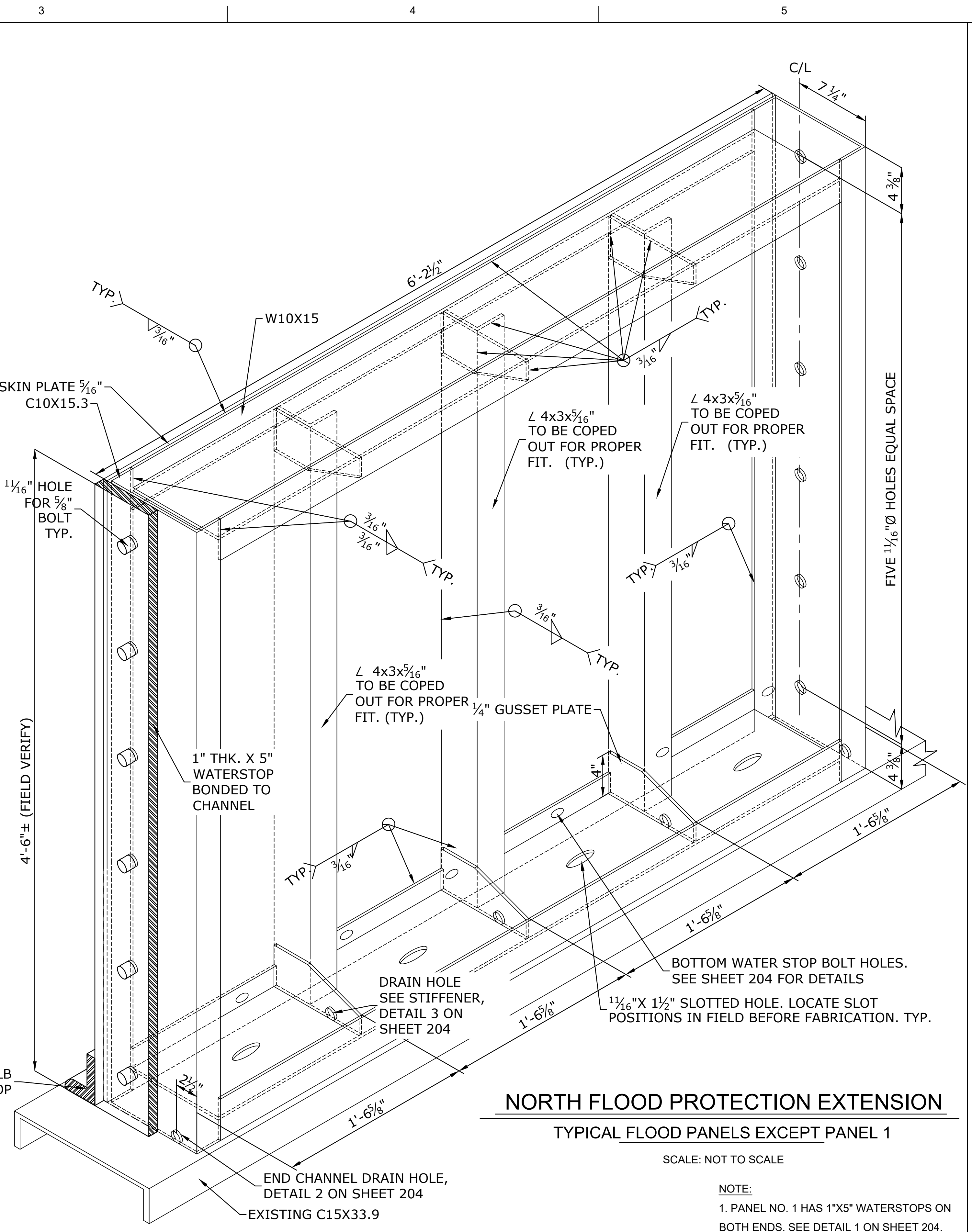
BOTTOM WATER STOP BOLT HOLES. SEE SHEET 204 FOR DETAILS



PLAN

TYPICAL FLOOD PANELS EXCEPT PANEL 1

SCALE: 2" = 1'-0"



NORTH FLOOD PROTECTION EXTENSION

TYPICAL FLOOD PANELS EXCEPT PANEL 1

SCALE: NOT TO SCALE

SCALE: 2" = 1'-0"



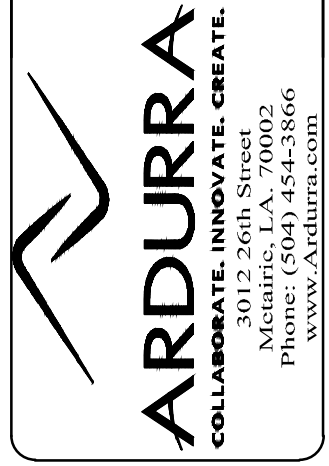
- NOTE:**
- PANEL NO. 1 HAS 1"X5" WATERSTOPS ON BOTH ENDS. SEE DETAIL 1 ON SHEET 204.
 - ALL ELEVATIONS SHOWN ARE NAVD 88.

MARVIN BRAUD P.S. IMPROVEMENTS
NORTH END FLOOD PROTECTION PANELS
1. RAISE FLOOD PROTECTION 4'-6", FROM +7.75' TO 12.25' NAVD.
2. EXISTING FLOOD PROTECTION CONSISTS OF TIE-BACK STEEL SHEET PILE RETAINING WALL TO ELEVATION +7.75' NAVD.



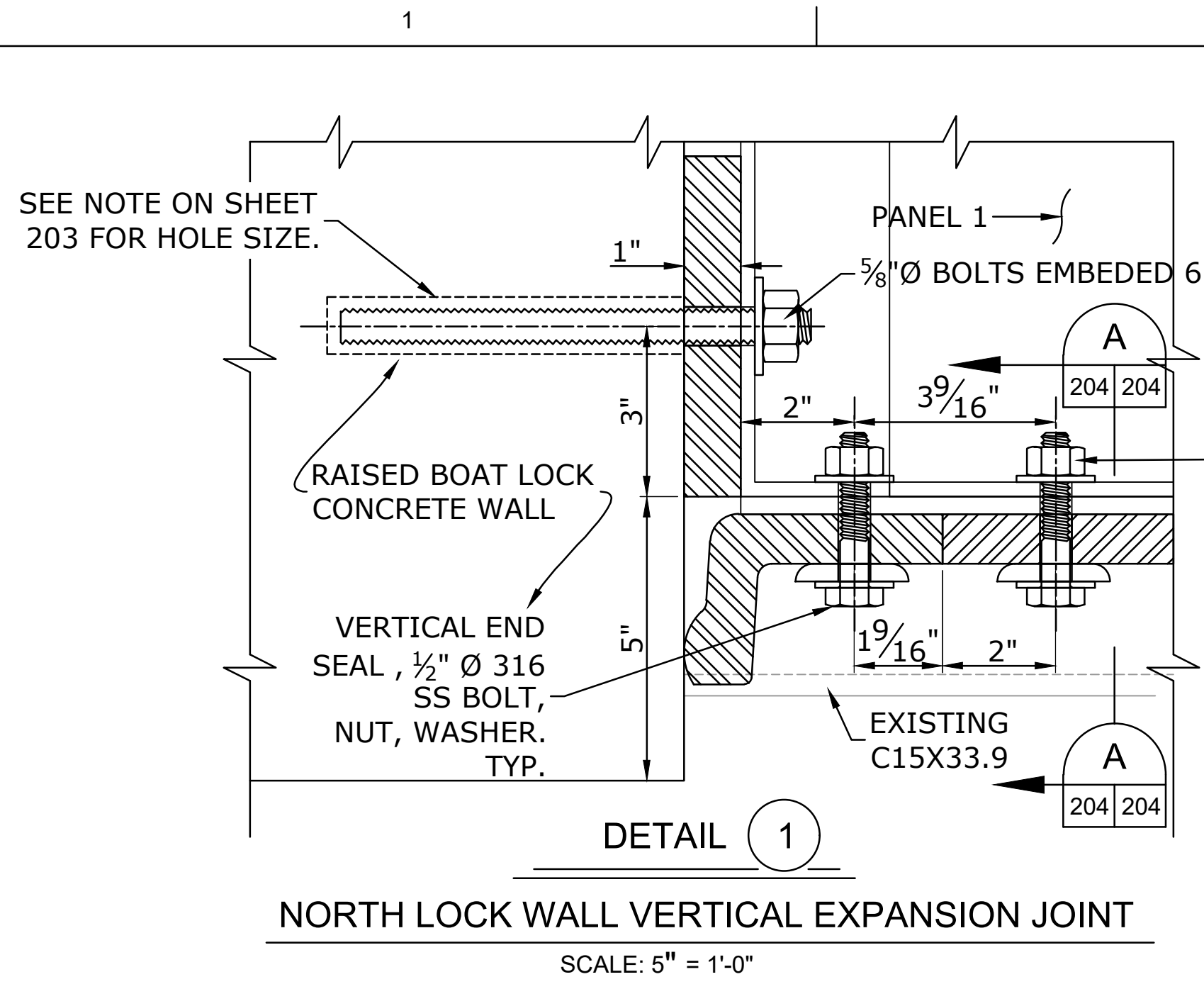
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REVISION DESCRIPTION	NO.	NO.

DESIGNED BY:	APPROVED BY:
CHECKED BY:	DATE:
PROJECT NO.:	FILE NAME:
PROJECT NO. PA-20-08-088	FILE NAME:

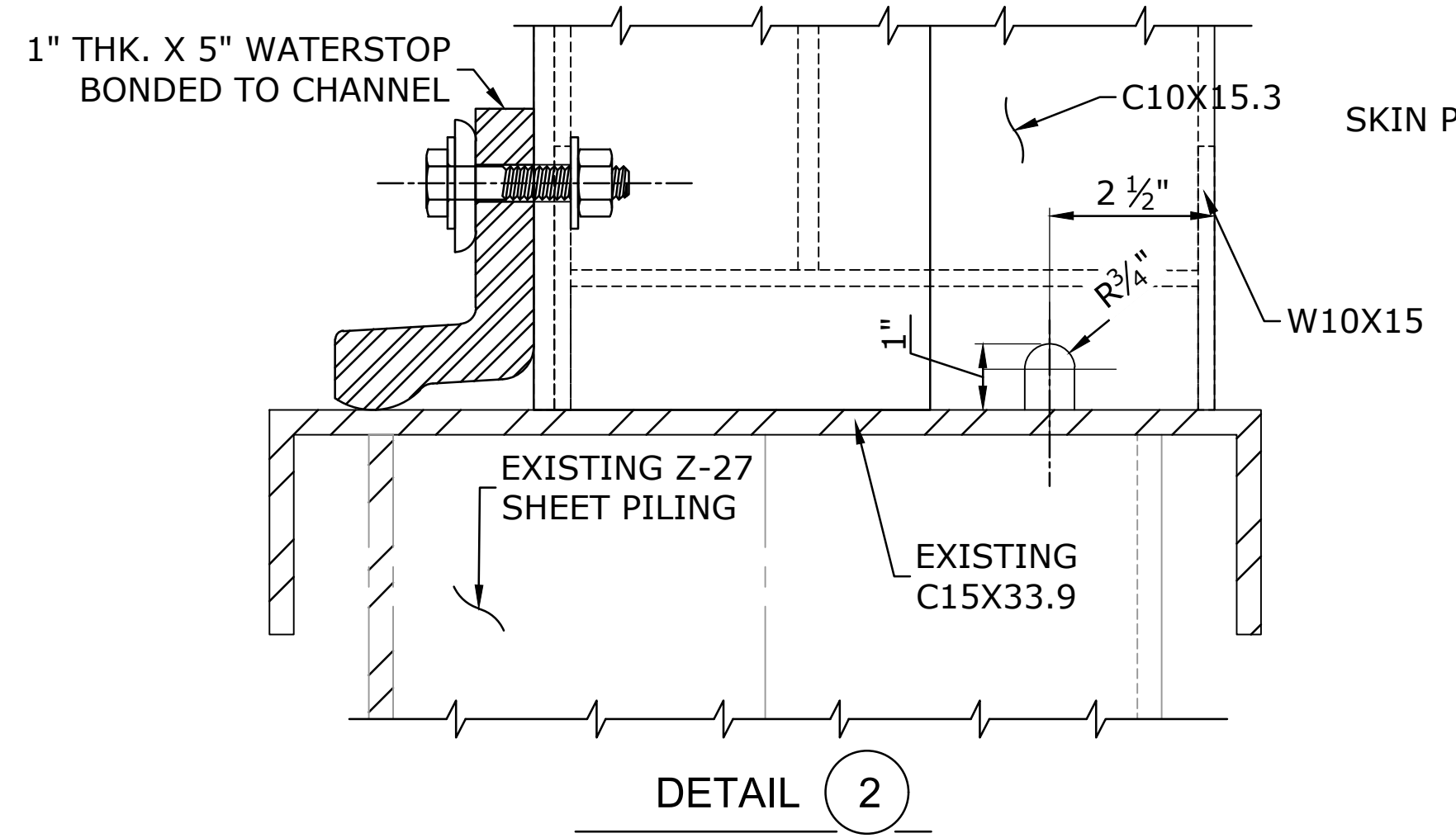


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

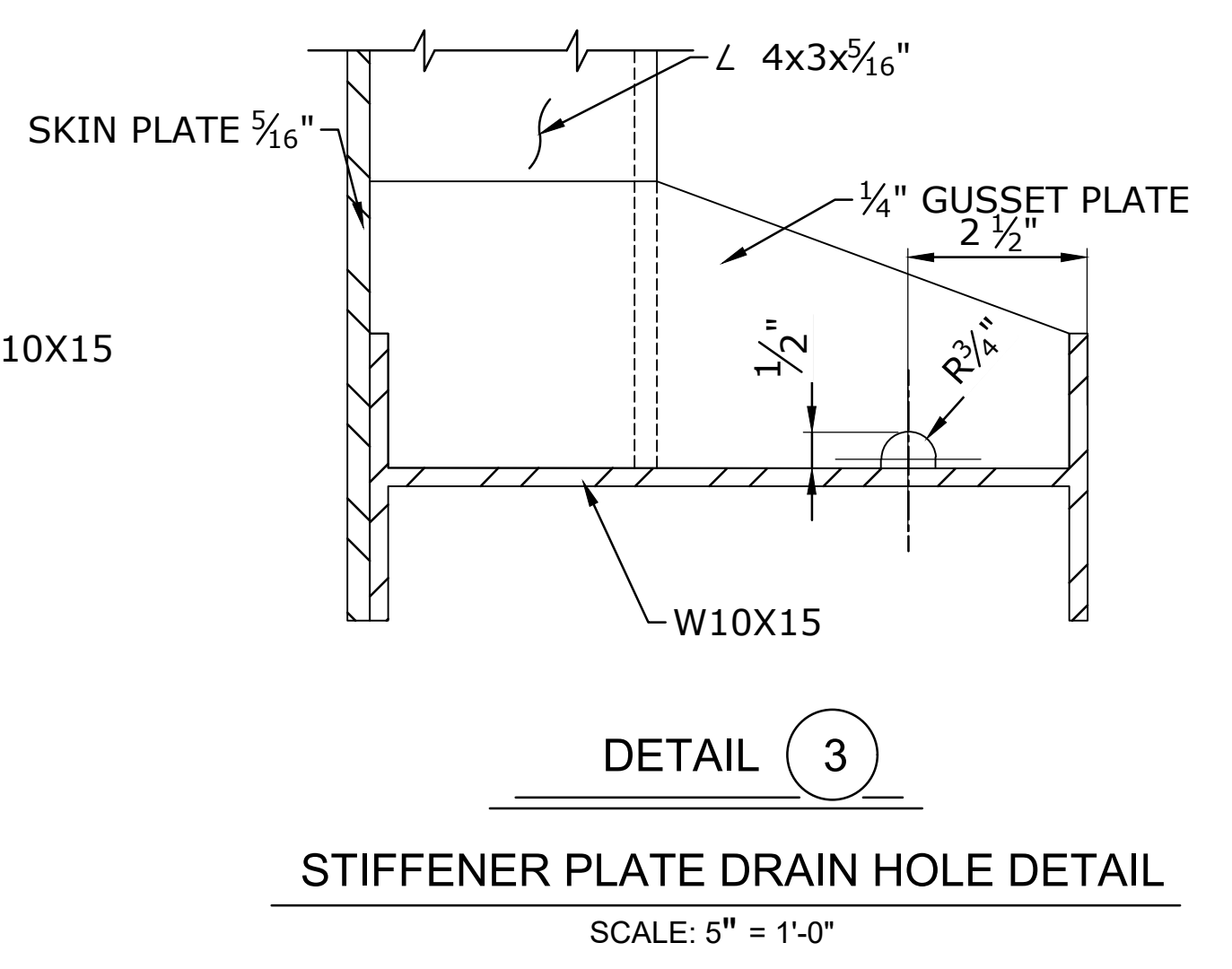
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NORTH FLOOD PROTECTION
PANEL DETAILS



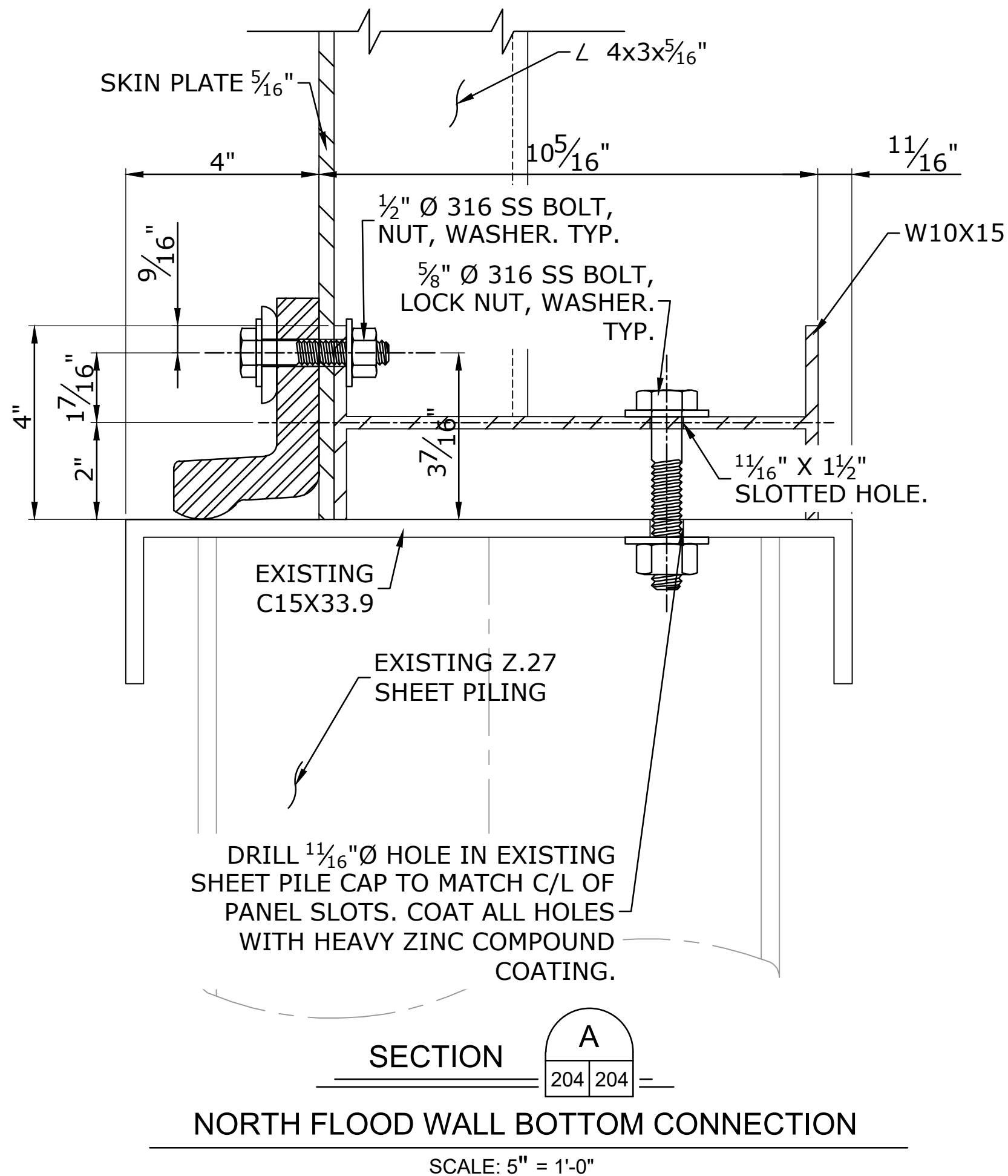
DETAIL 1
NORTH LOCK WALL VERTICAL EXPANSION JOINT
SCALE: 5" = 1'-0"



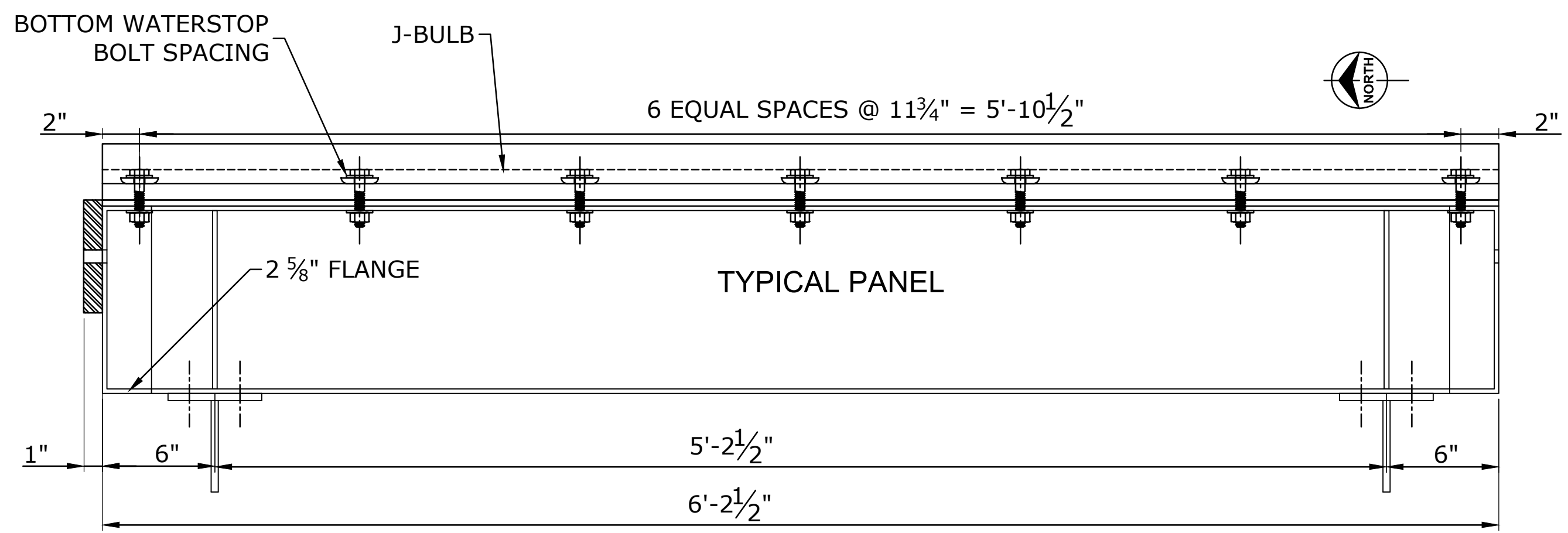
DETAIL 2
END CHANNEL DRAIN HOLE DETAIL (TWO PER PANEL)
SCALE: 5" = 1'-0"



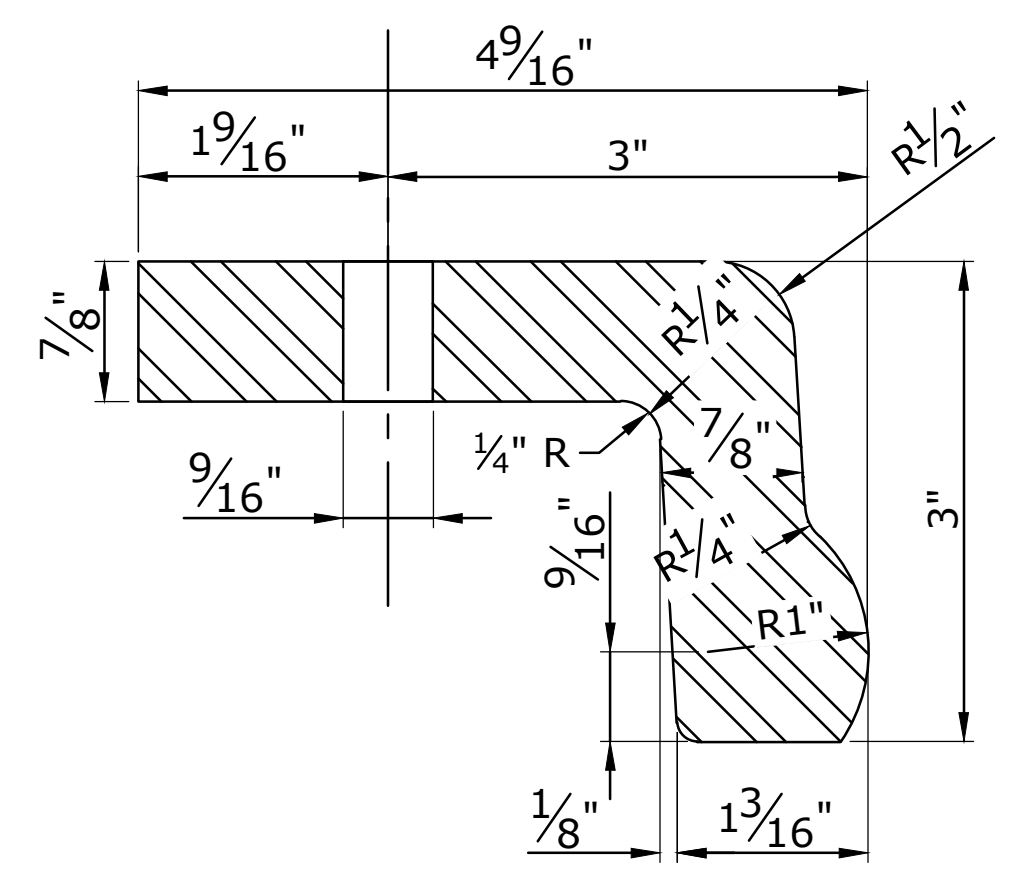
DETAIL 3
STIFFENER PLATE DRAIN HOLE DETAIL
SCALE: 5" = 1'-0"



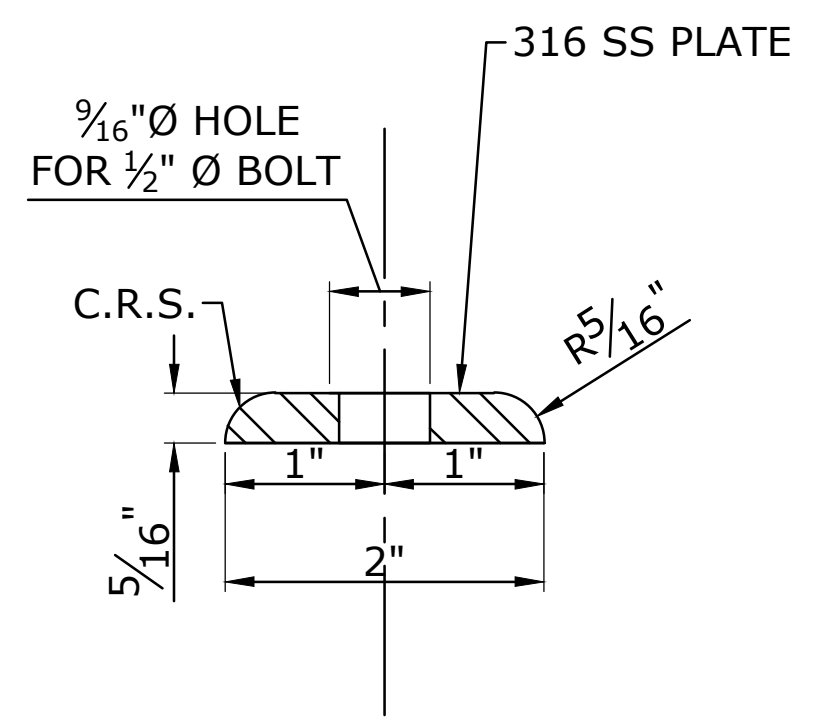
SECTION A
NORTH FLOOD WALL BOTTOM CONNECTION
SCALE: 5" = 1'-0"



PLAN
PANEL PADEYE INSERT & WATERSTOP BOLT LOCATIONS
TOP AND BOTTOM
SCALE: 2" = 1'-0"



J - BULB WATERSTOP DETAIL
SCALE: NOT TO SCALE

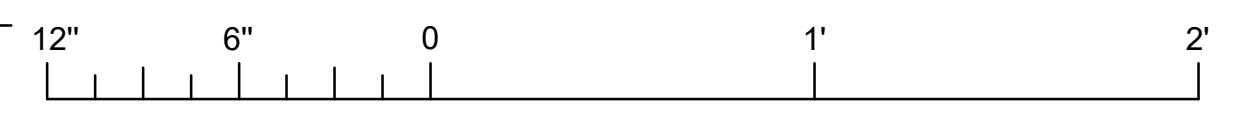
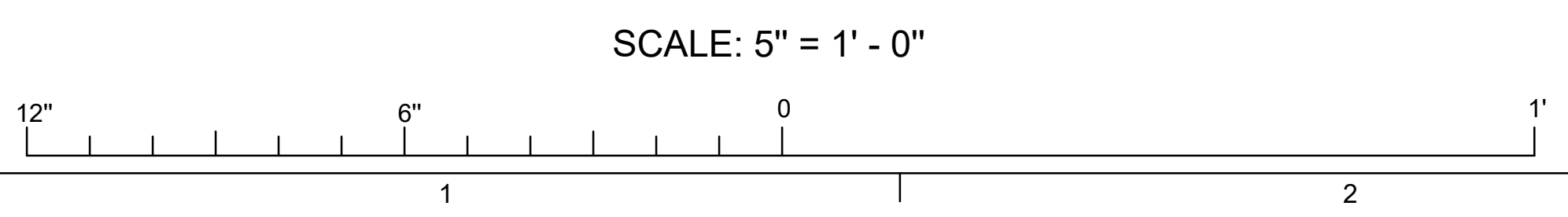


KEEPER PLATE
SCALE: NOT TO SCALE

FLOOD PROTECTION SEAL DETAILS

SCALE: 2" = 1'-0"

MARVIN BRAUD P.S. IMPROVEMENTS
NORTH END FLOOD PROTECTION
1. NEED TO RAISE FLOOD PROTECTION FROM +7.75' TO 12.25' NAVD.
2. EXISTING FLOOD PROTECTION CONSISTS OF TIE-BACK SHEET PILE RETAINING WALL TO ELEVATION +7.75' NAVD.

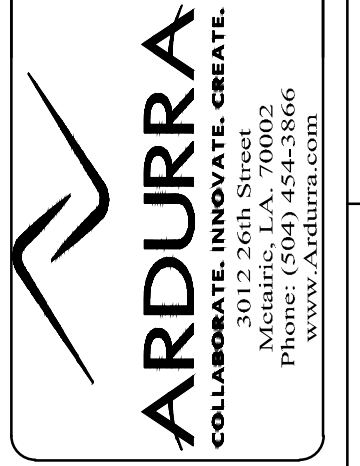


NOTE:
1. ALL ELEVATIONS ARE NAVD 88.



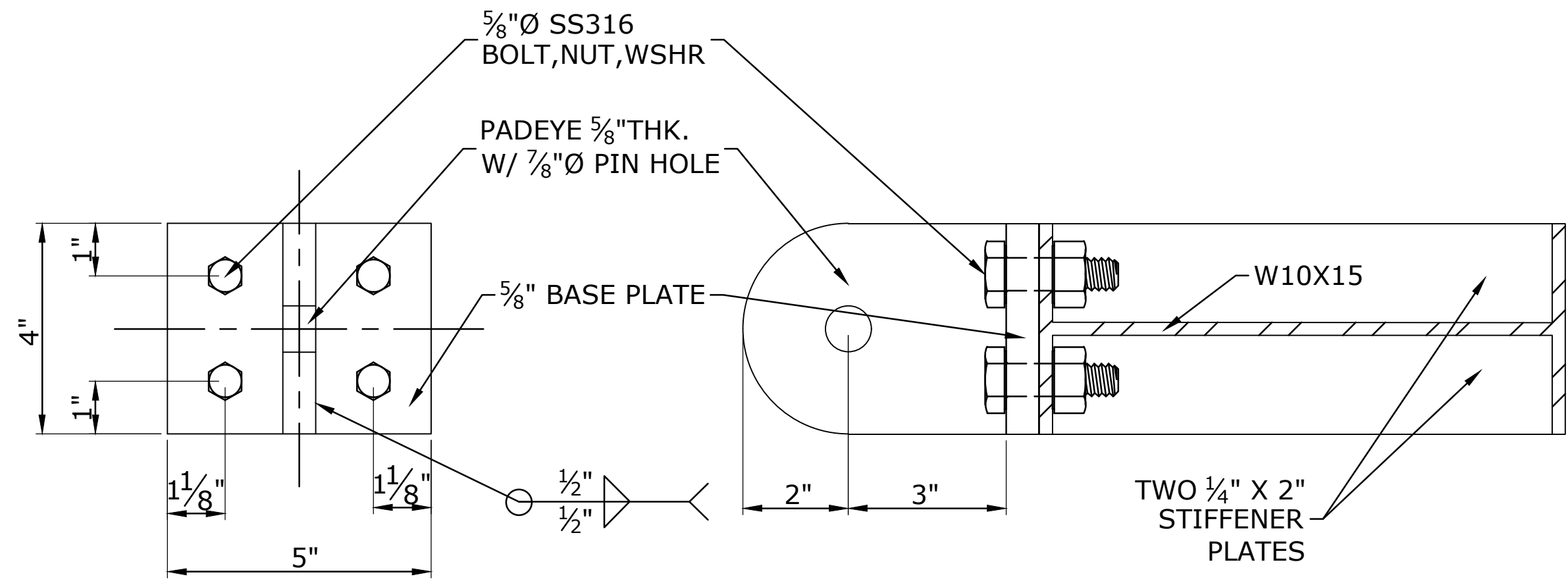
ISSUED FOR CONSTRUCTION	DATE	BY
	REVISION DESCRIPTION	NO.

DESIGNED BY:	CHECKED BY:	DATE:
DRAWN BY:	APPROVED BY:	DATE:
PROJECT NO.:	FILE NAME:	

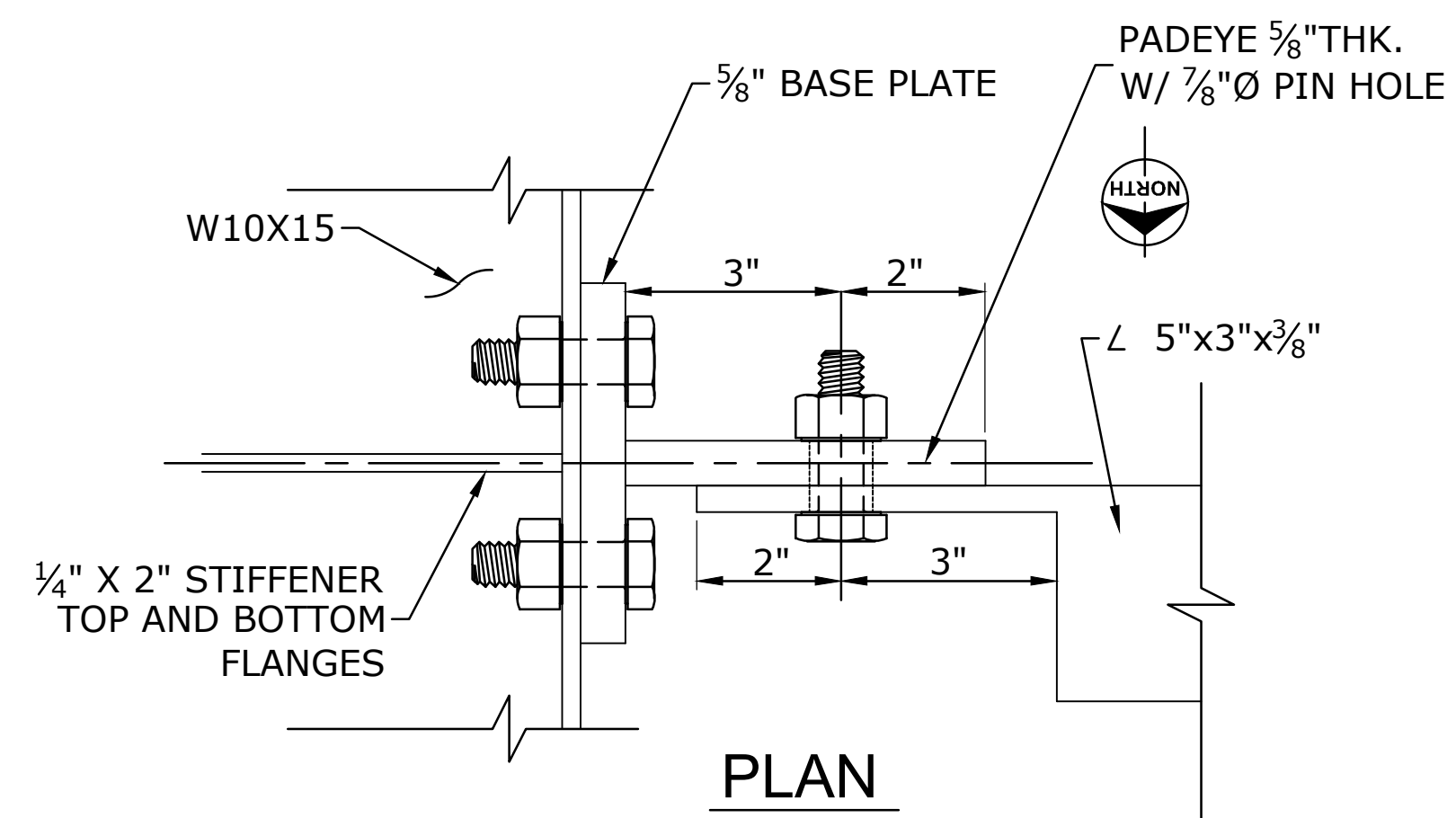


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

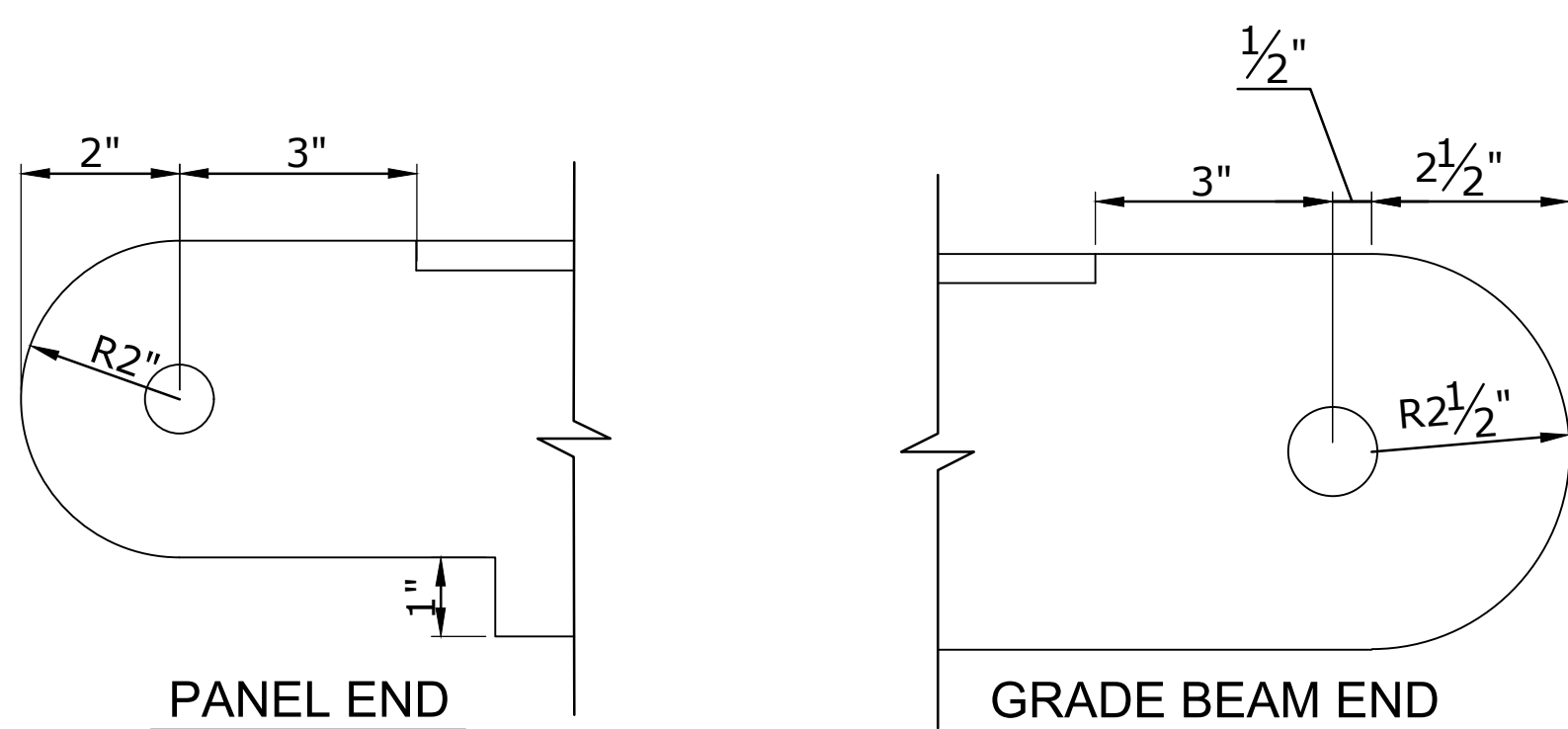
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NORTH FLOOD PROTECTION
DETAILS



PANEL PADEYES
SCALE: 5" = 1'-0"



**PLAN
PANEL PADEYES**
SCALE: 5" = 1'-0"

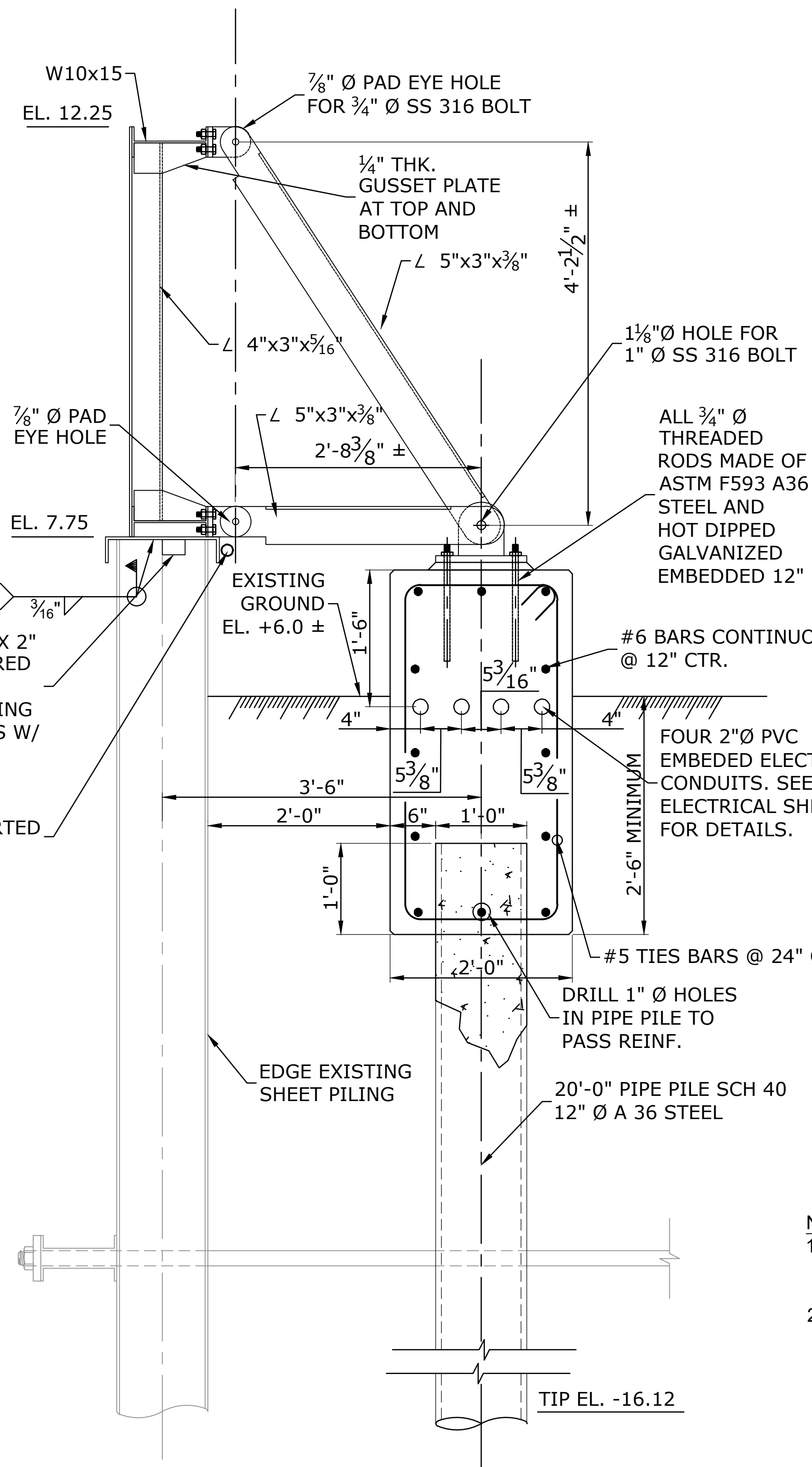


BRACE ANGLES DETAIL
SCALE: 5" = 1'-0"

MARVIN BRAUD P.S. IMPROVEMENTS
NORTH END FLOOD PROTECTION RAISING

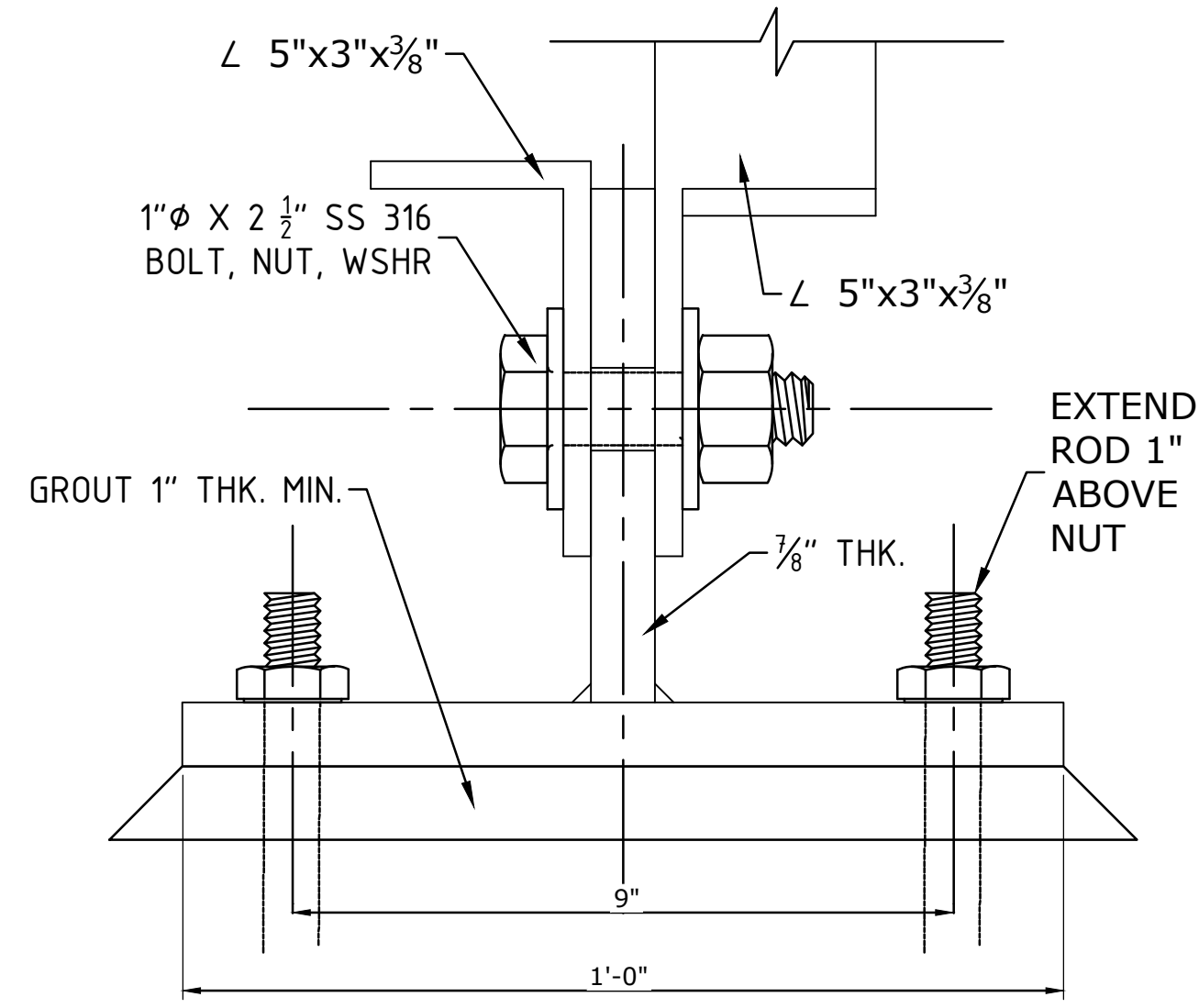
1. NEED TO RAISE FLOOD PROTECTION FROM +7.75' TO 12.25' NAVD.
2. EXISTING FLOOD PROTECTION CONSISTS OF TIE-BACK SHEET PILE RETAINING WALL TO ELEVATION +7.75' NAVD.

SCALE: 5" = 1'-0"



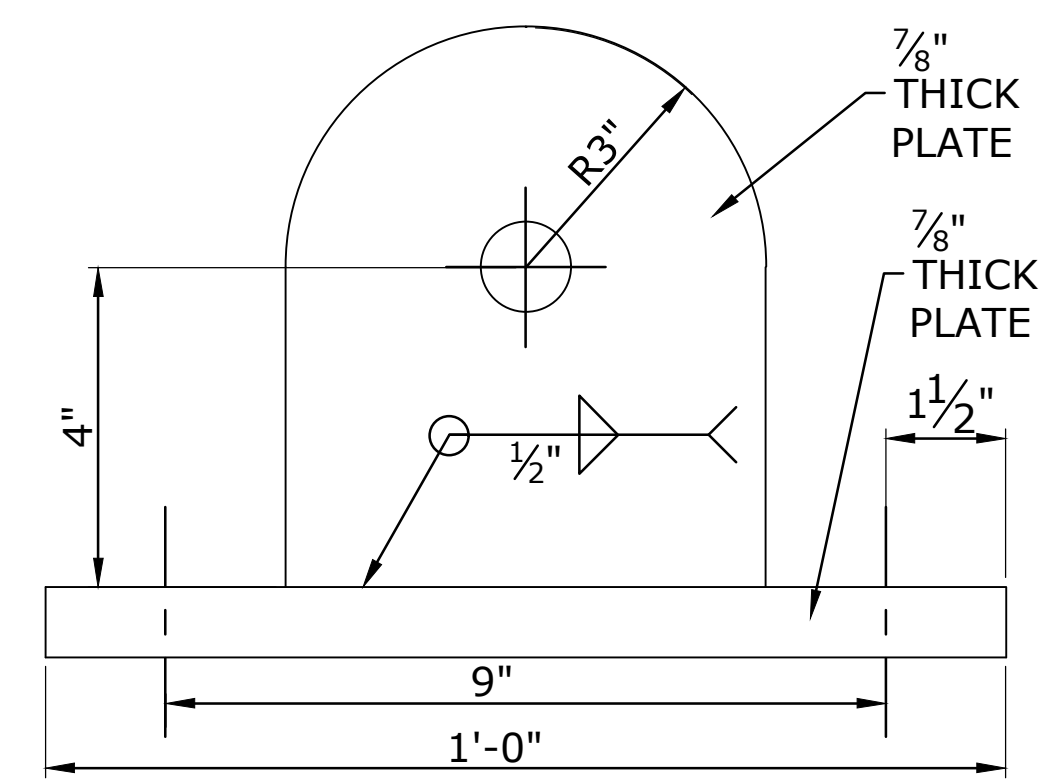
FLOOD PANEL GRADE BEAM SUPPORT

SCALE: 1" = 1'-0"



GRADE BEAM PAD EYES

SCALE: 5" = 1'-0"



GRADE BEAM PAD EYES

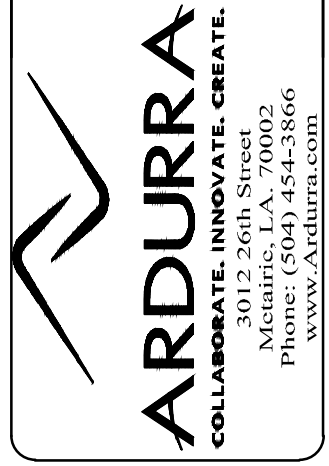
SCALE: 5" = 1'-0"

- NOTE:
1. FIELD MEASURE DISTANCES BETWEEN BRACING CONNECTION POINTS BEFORE FABRICATING BRACING. WELD MARK EACH BRACING ANGLE WITH PANEL NUMBER AND "N" OR "S" END.
 2. ALL ELVATIONS SHOWN ARE NAVD 88.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: EMM	CHECKED BY: EMM	APPROVED BY: EMM
DATE: 06/03/2021	DATE: 06/03/2021	DATE: 06/03/2021



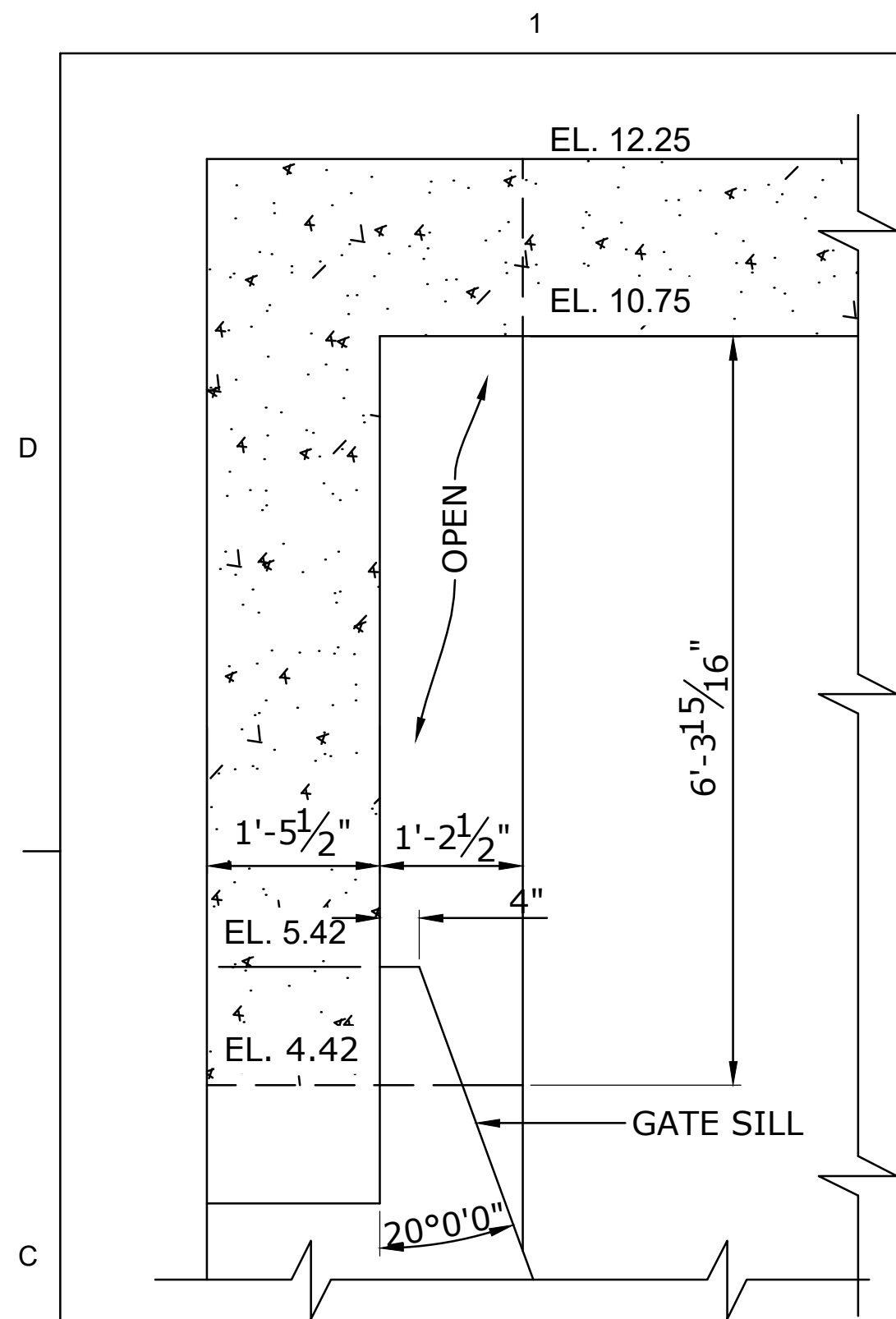
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NORTH FLOOD PROTECTION
FLOOD PANEL STRUCTURE DETAILS

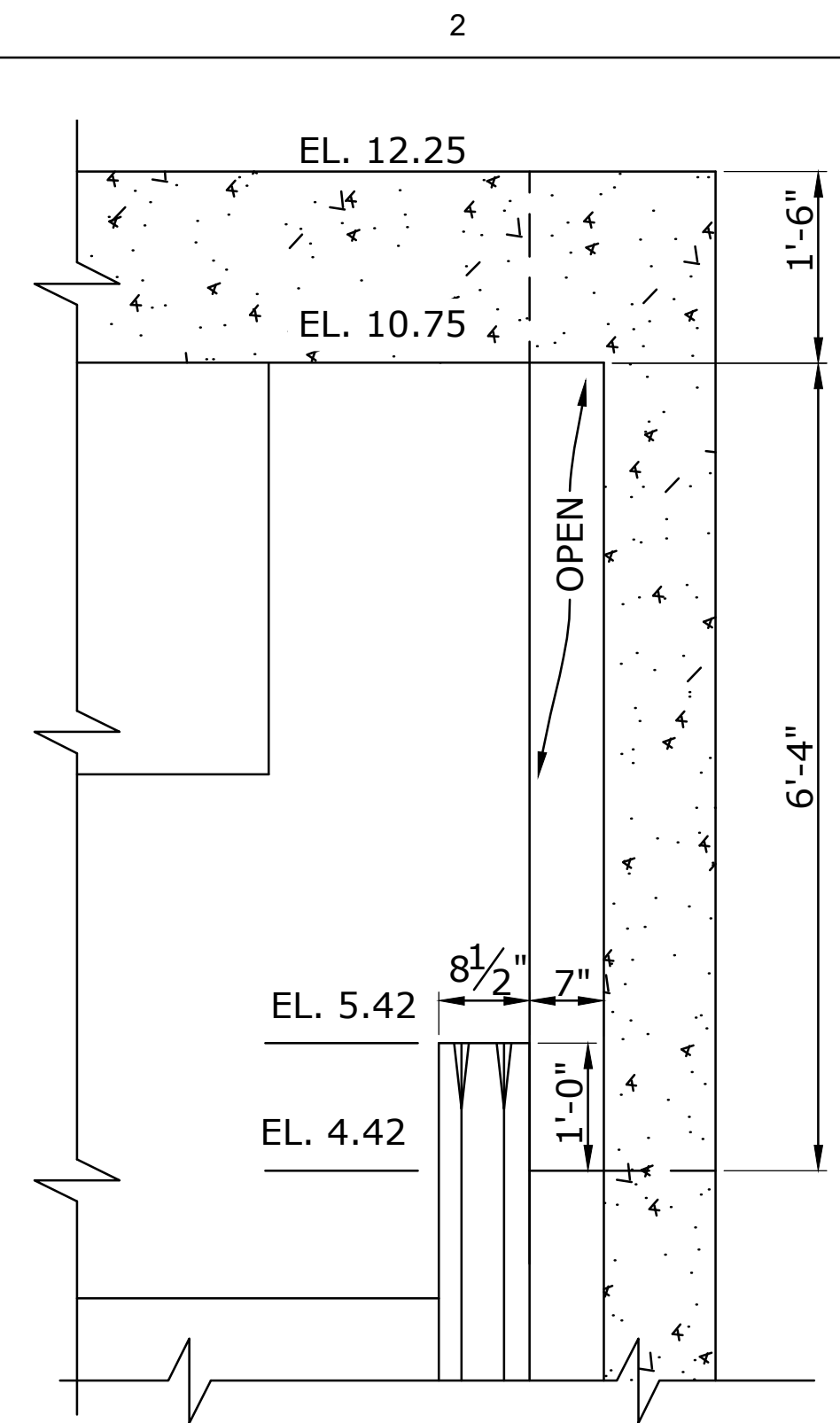


12" 6" 0 1' 12" 0 1' 2' 3' 4' 5'

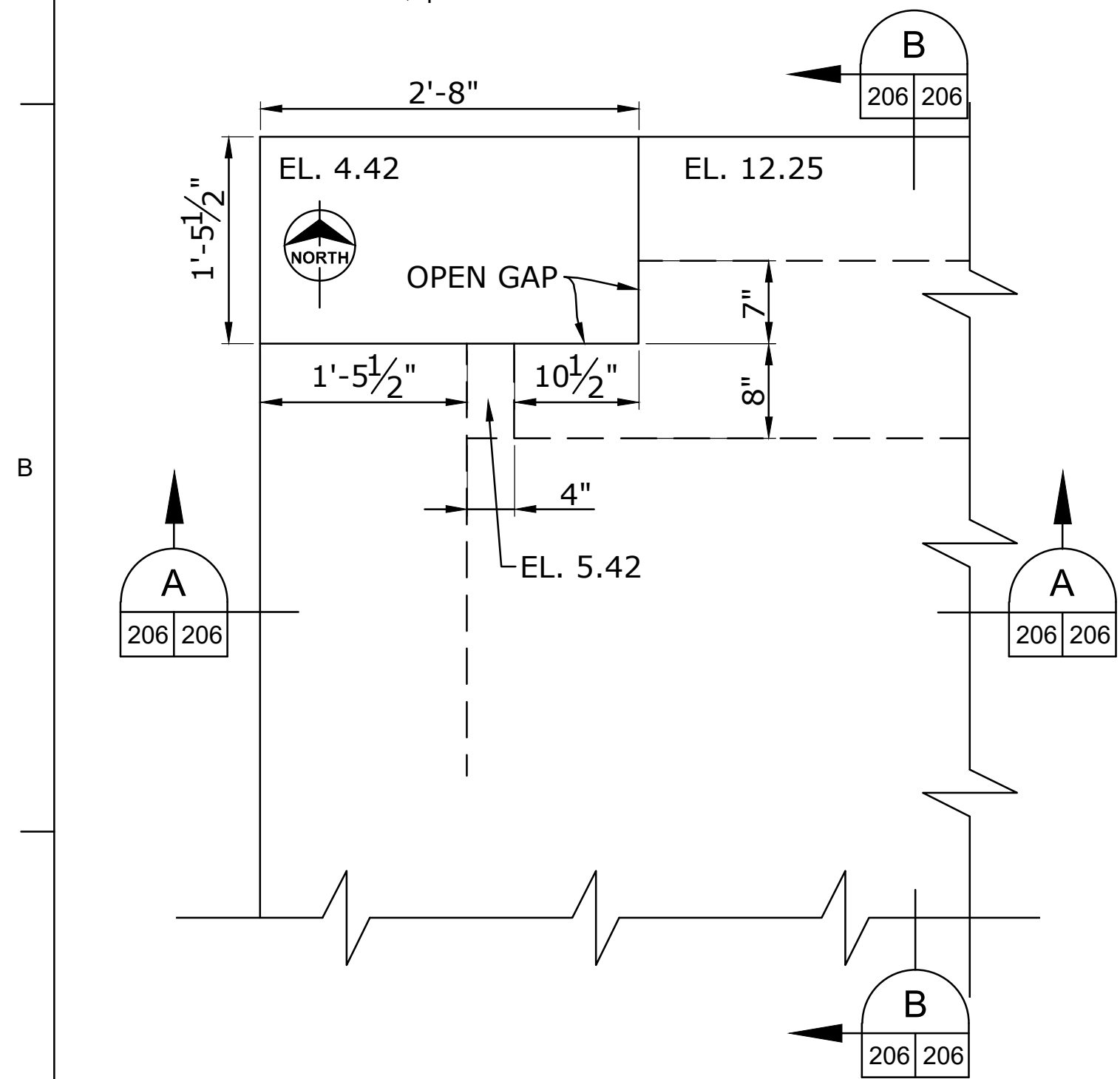
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SECTION A
SCALE: 3/4" = 1'-0"



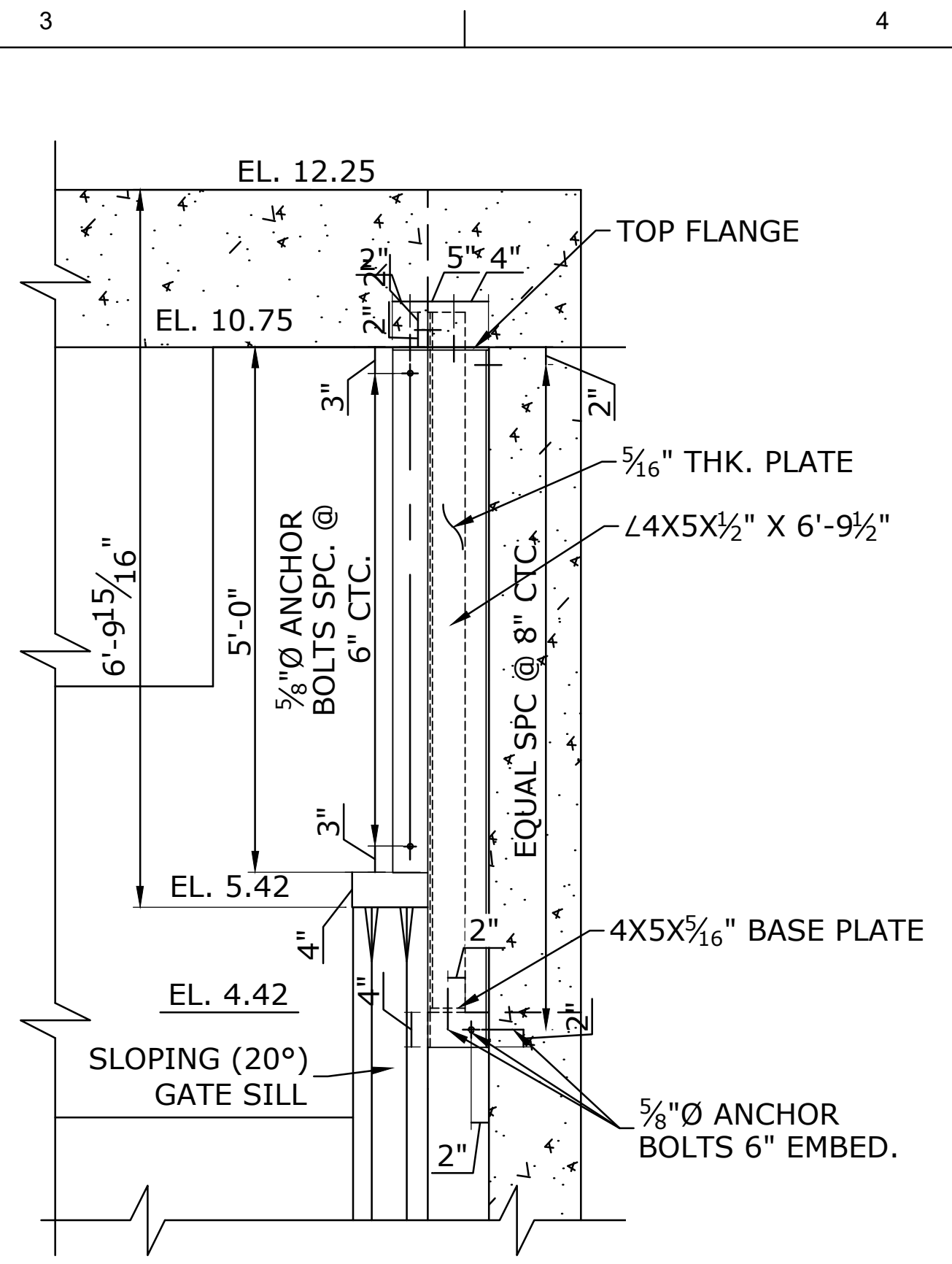
SECTION B
SCALE: 3/4" = 1'-0"



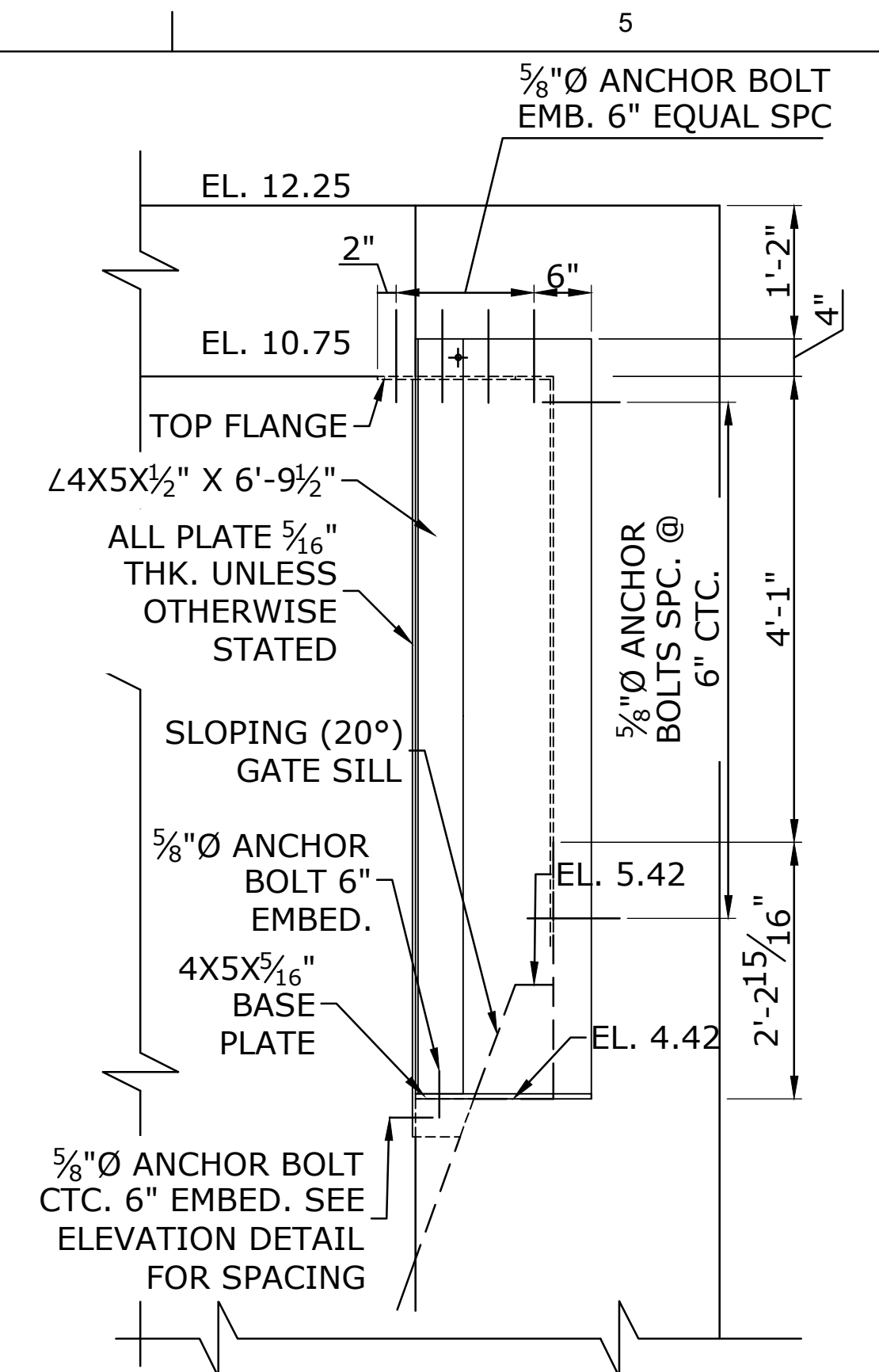
PLAN-NORTHWEST CORNER
PUMPING STATION
SCALE: 1" = 1'-0"

- NOTES ON CONCRETE CORING:**
- CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
 - FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ACHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSTION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
 - CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
 - IF THE DRAWING GATE FRAMES AND LIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS AND SUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.

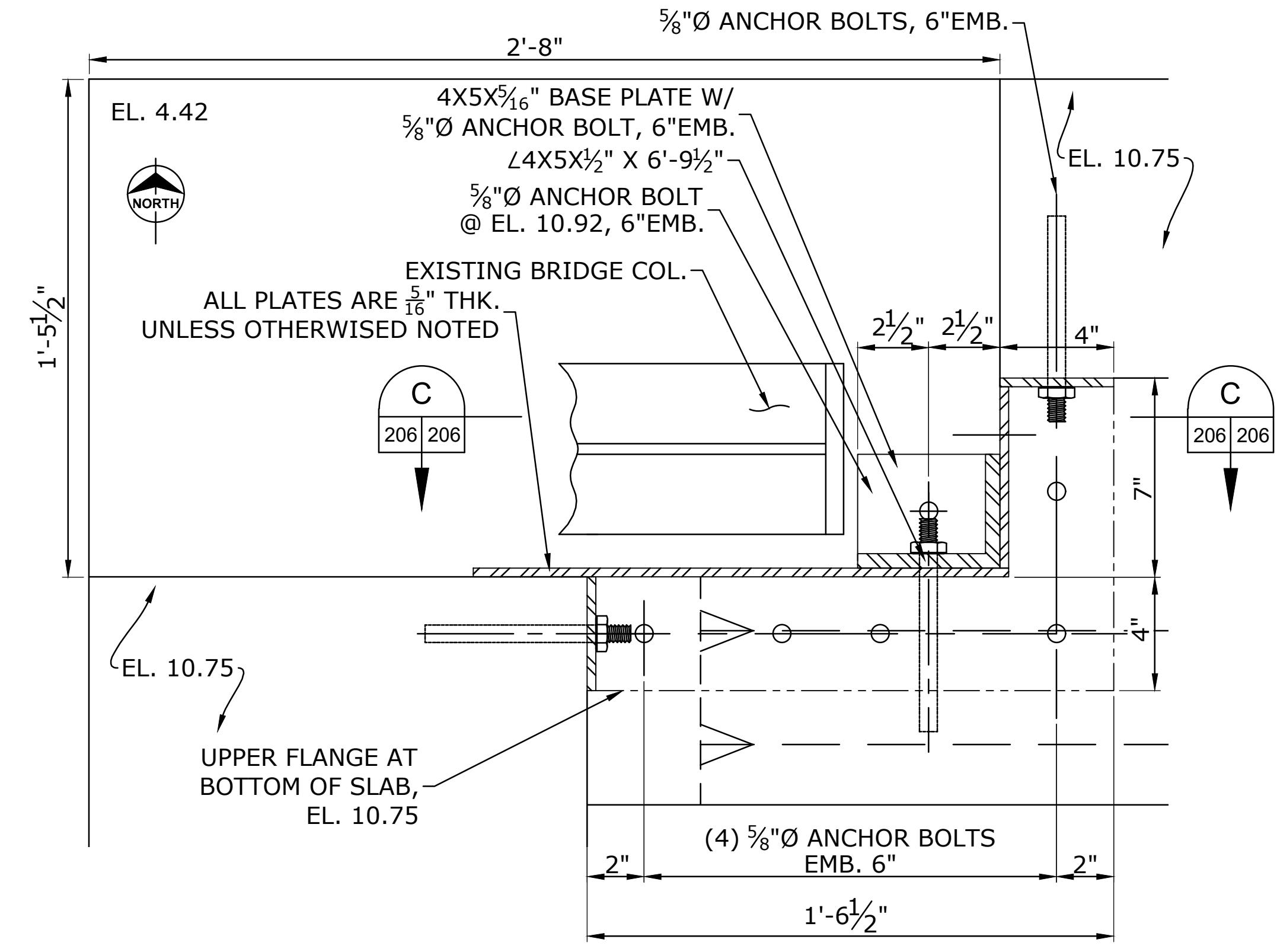
- NOTE:**
- ALL ELEVATIONS ARE NAVD 88.
 - ALL FASTENERS ARE HITLI HAS-R STAINLESS STEEL THREADED RODS, ASTM F593: OR, APPROVED EQUAL.
 - HOT DIP GALVANIZED AFTER FABRICATION.
 - WELD ALL PLATE, ANGLES, BASE PLATES WITH 3/16" FILLET WELDS.



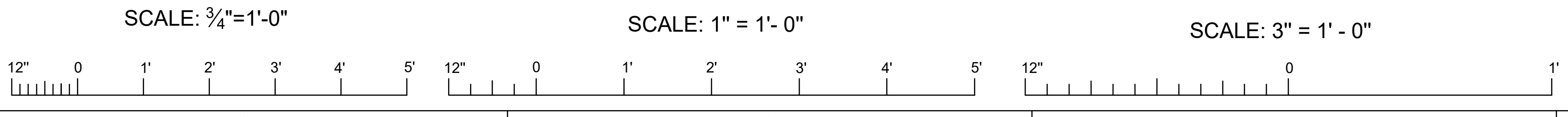
ELEVATION
GAP CLOSURE ASSEMBLY
LOOKING WEST
SCALE: 3/4" = 1'-0"



SECTION C
LOOKING SOUTH
SCALE: 3/4" = 1'-0"

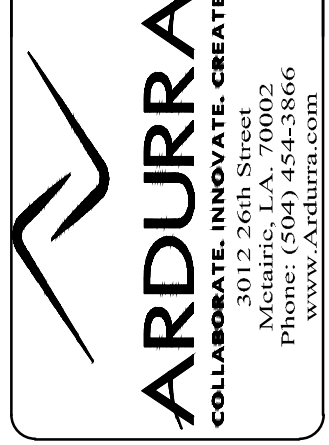


PLAN
GAP CLOSURE ASSEMBLY
SCALE: 3" = 1'-0"



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NO.	REVISION DESCRIPTION
DATE	BY

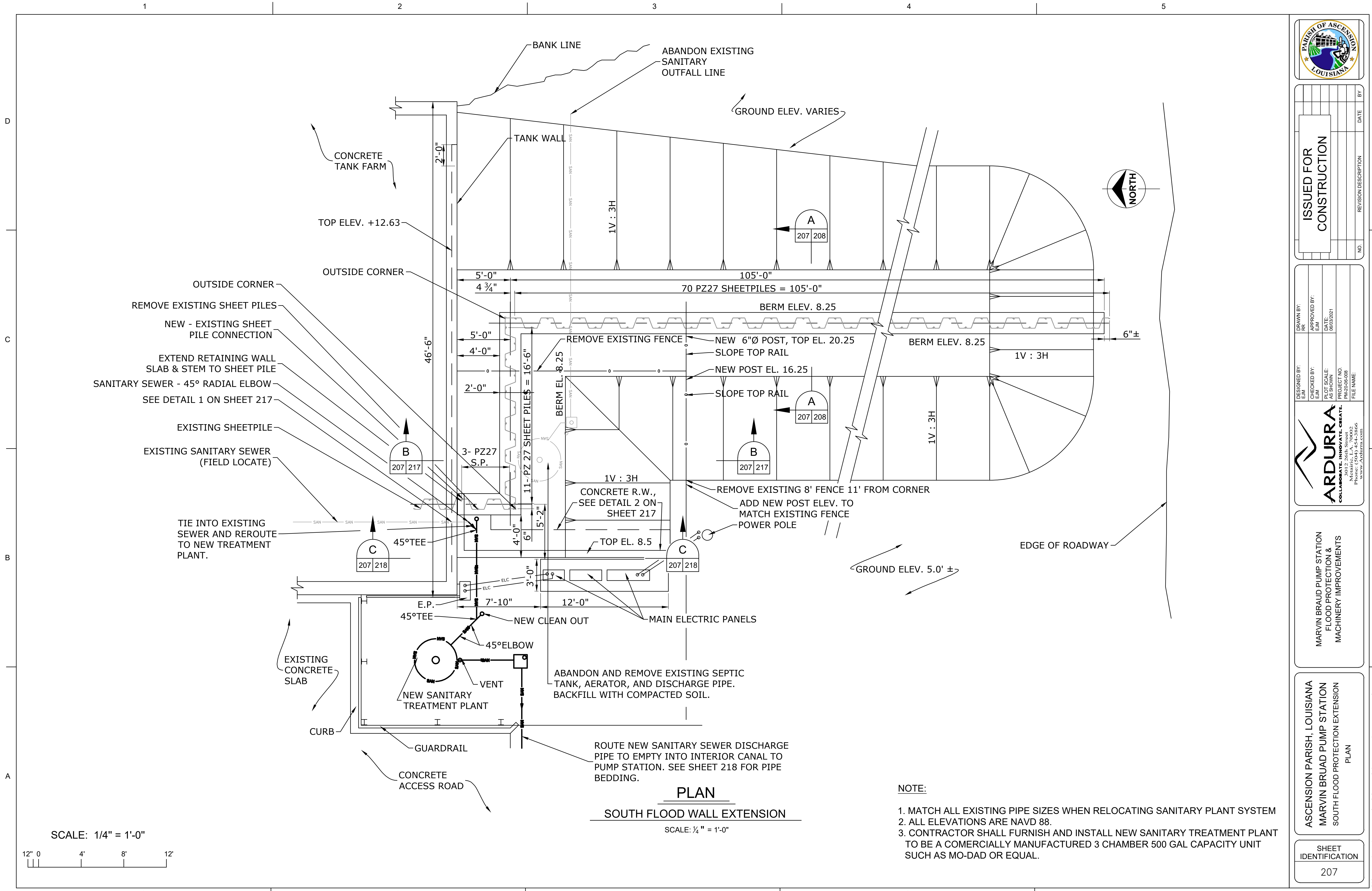
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PROJECT NO.:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

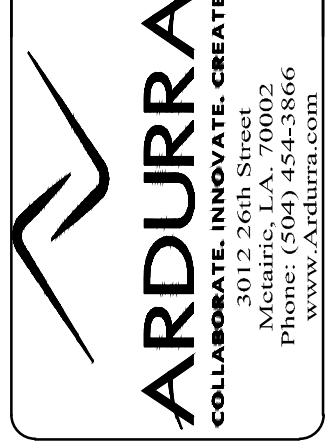
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NORTH FLOOD PROTECTION
NORTHWEST GAP CLOSURE

SHEET IDENTIFICATION
206



ISSUED FOR CONSTRUCTION	
NO.	REVISION DESCRIPTION
DATE	BY

DESIGNED BY:	CHECKED BY:	DATE:
APPROVED BY:	DATE:	DATE:
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:	FILE NAME:

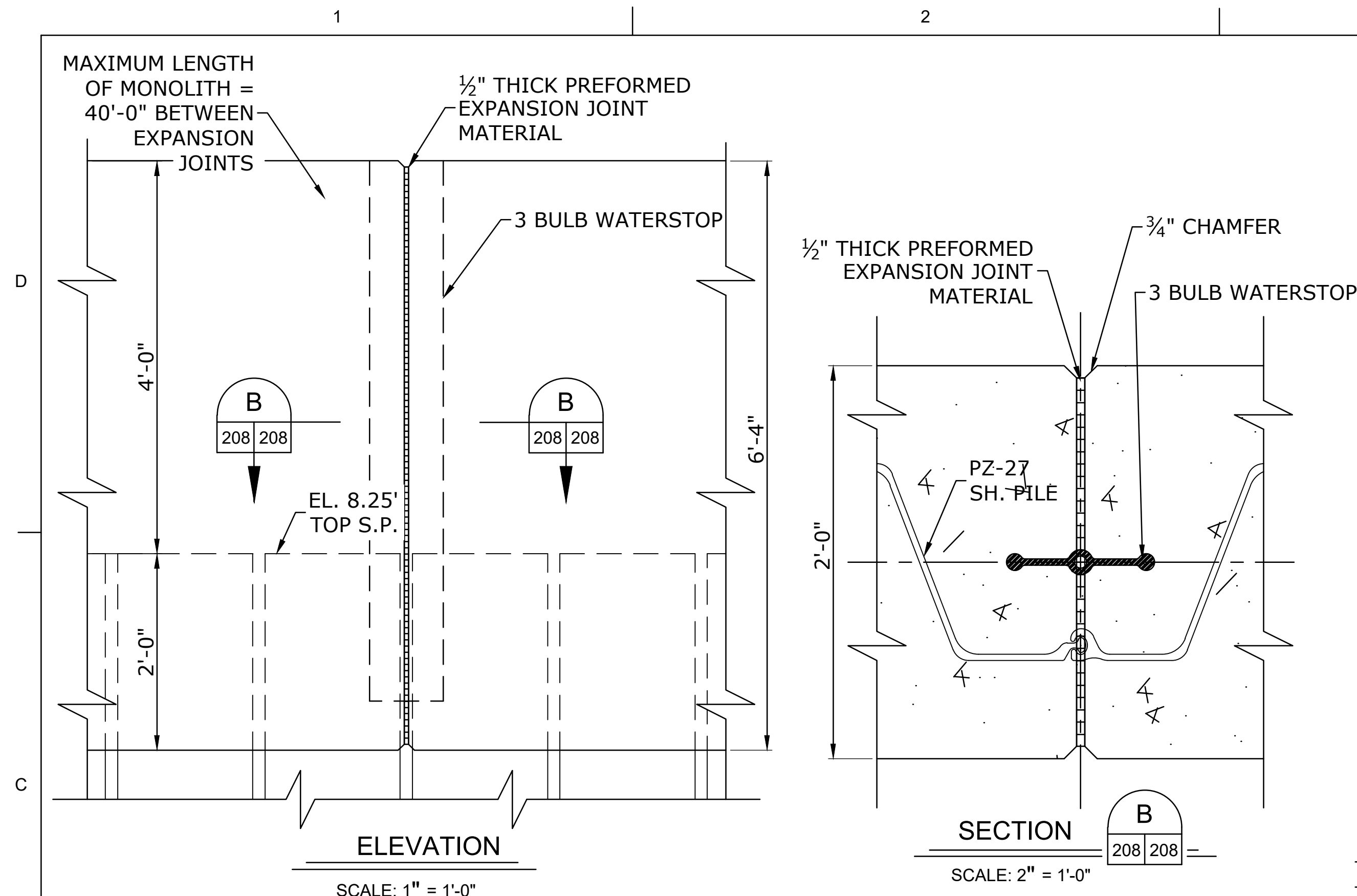


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

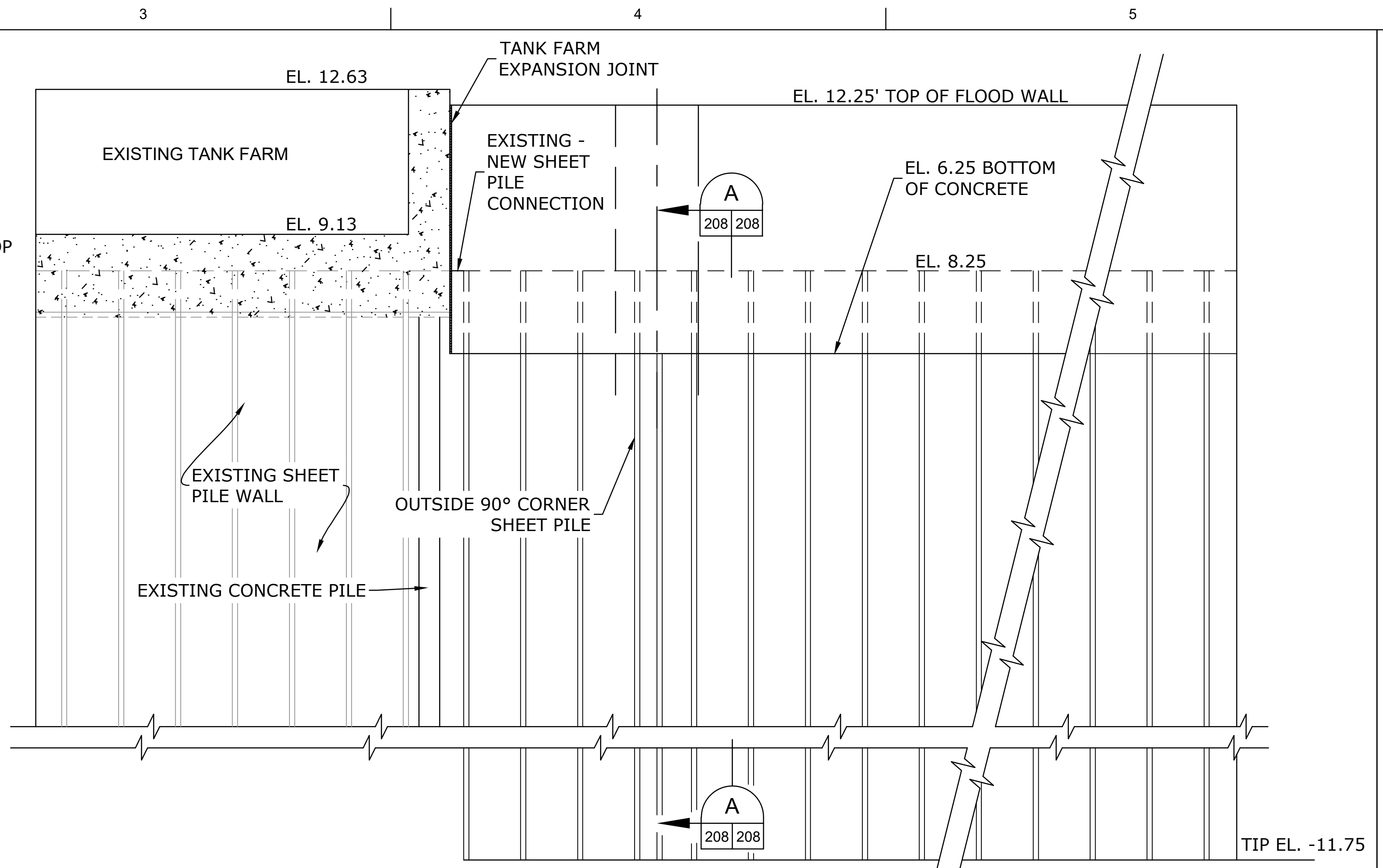
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
SOUTH FLOOD PROTECTION EXTENSION
PLAN

SHEET IDENTIFICATION
207

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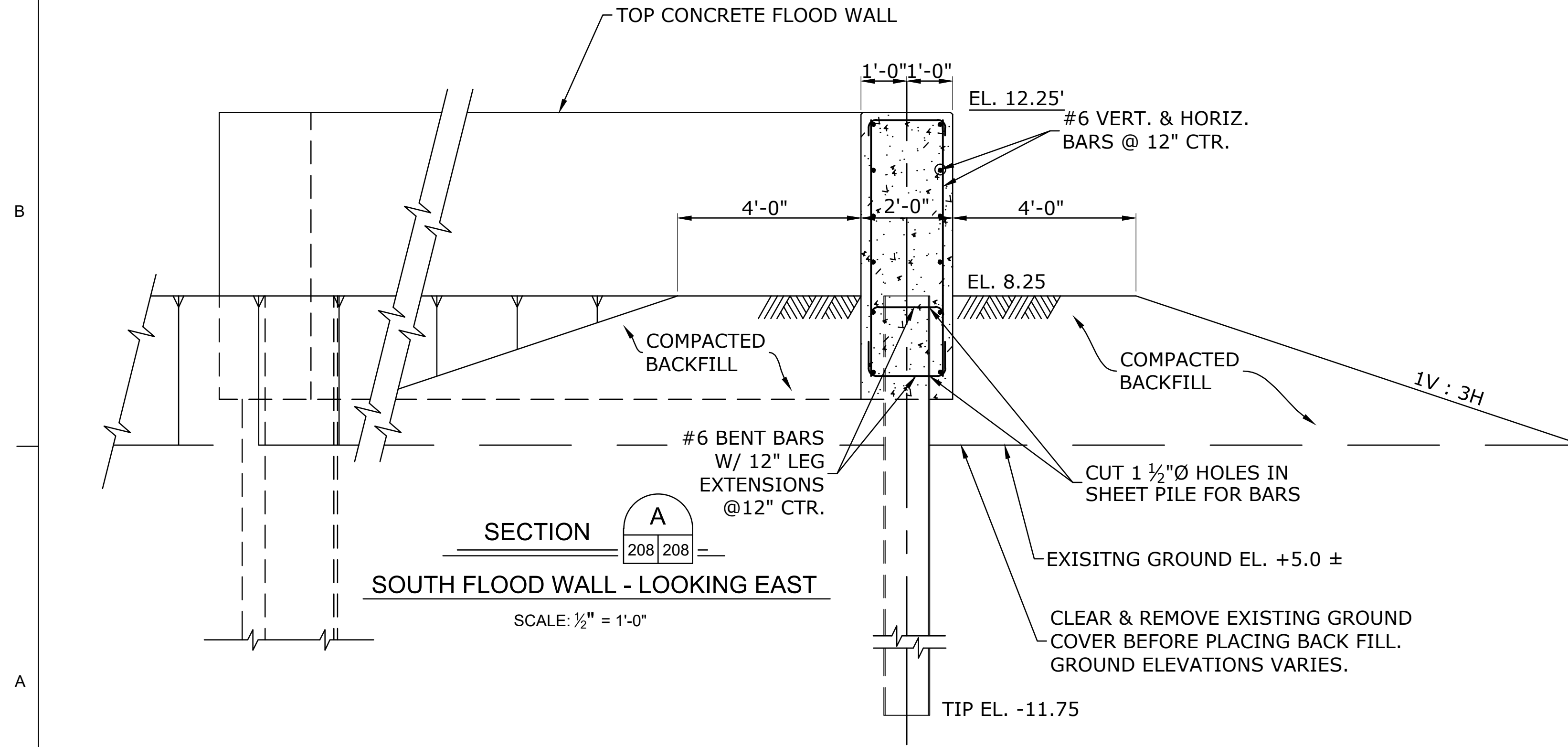


FLOODWALL EXPANSION JOINT DETAIL

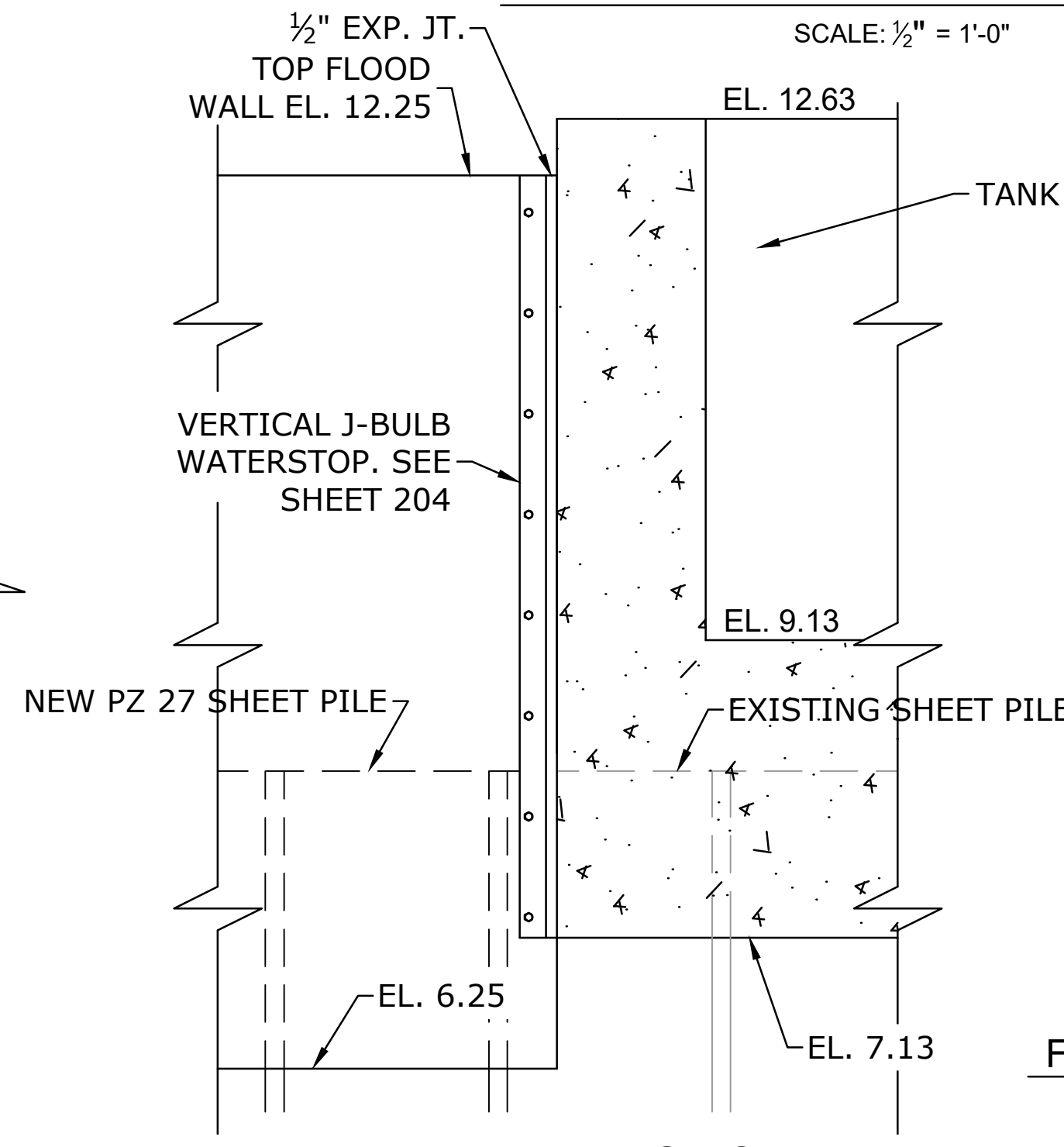


ELEVATIONS

SOUTH FLOOD WALL - LOOKING EAST

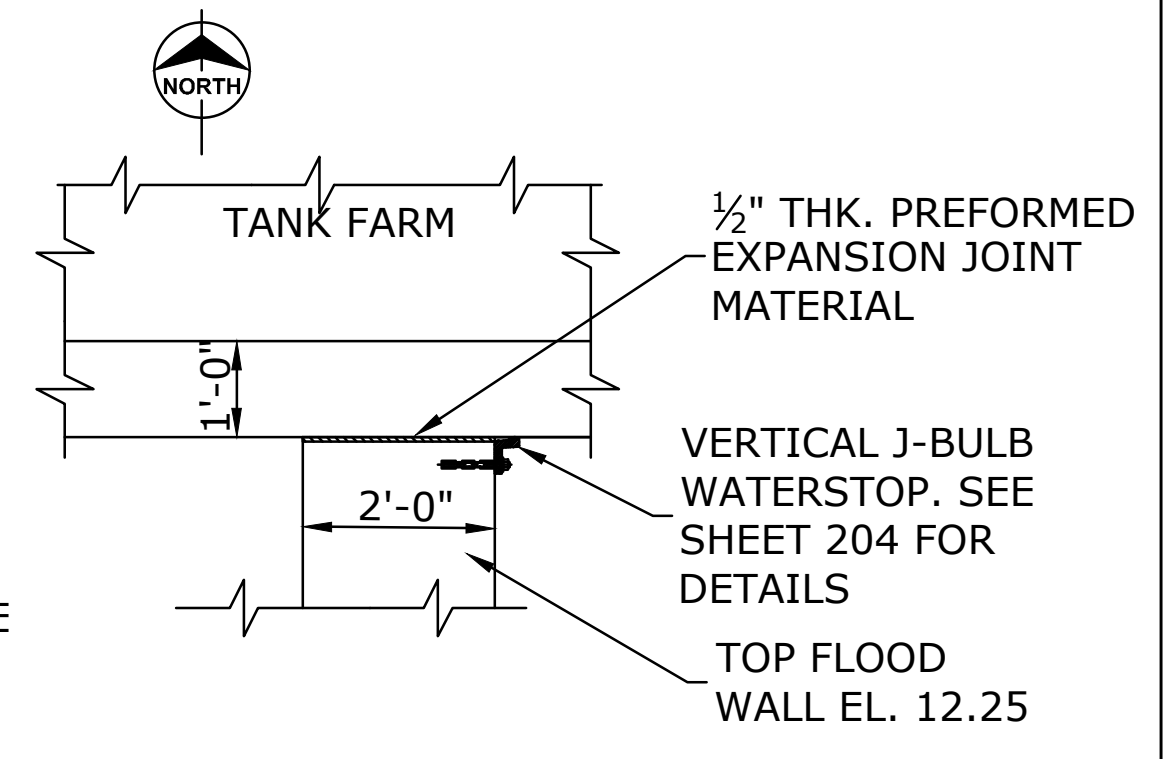


SOUTH FLOOD WALL - LOOKING EAST



ELEVATIONS

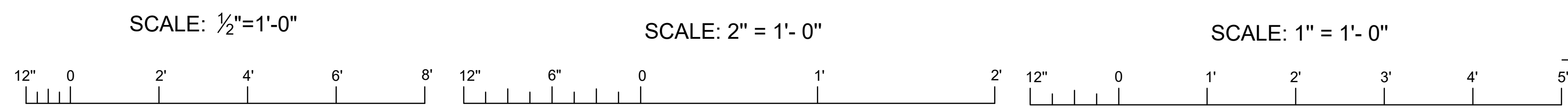
FLOODWALL - TANK FARM EXPANSION JOINT




PLAN

FLOODWALL - TANK FARM EXPANSION JOINT

NOTE:
 1. ALL ELEVATIONS ARE NAVD 88.
 2. SEE SHEETS 217 AND 218 FOR MORE SOUTH PROTECTION DETAILS.





ISSUED FOR CONSTRUCTION

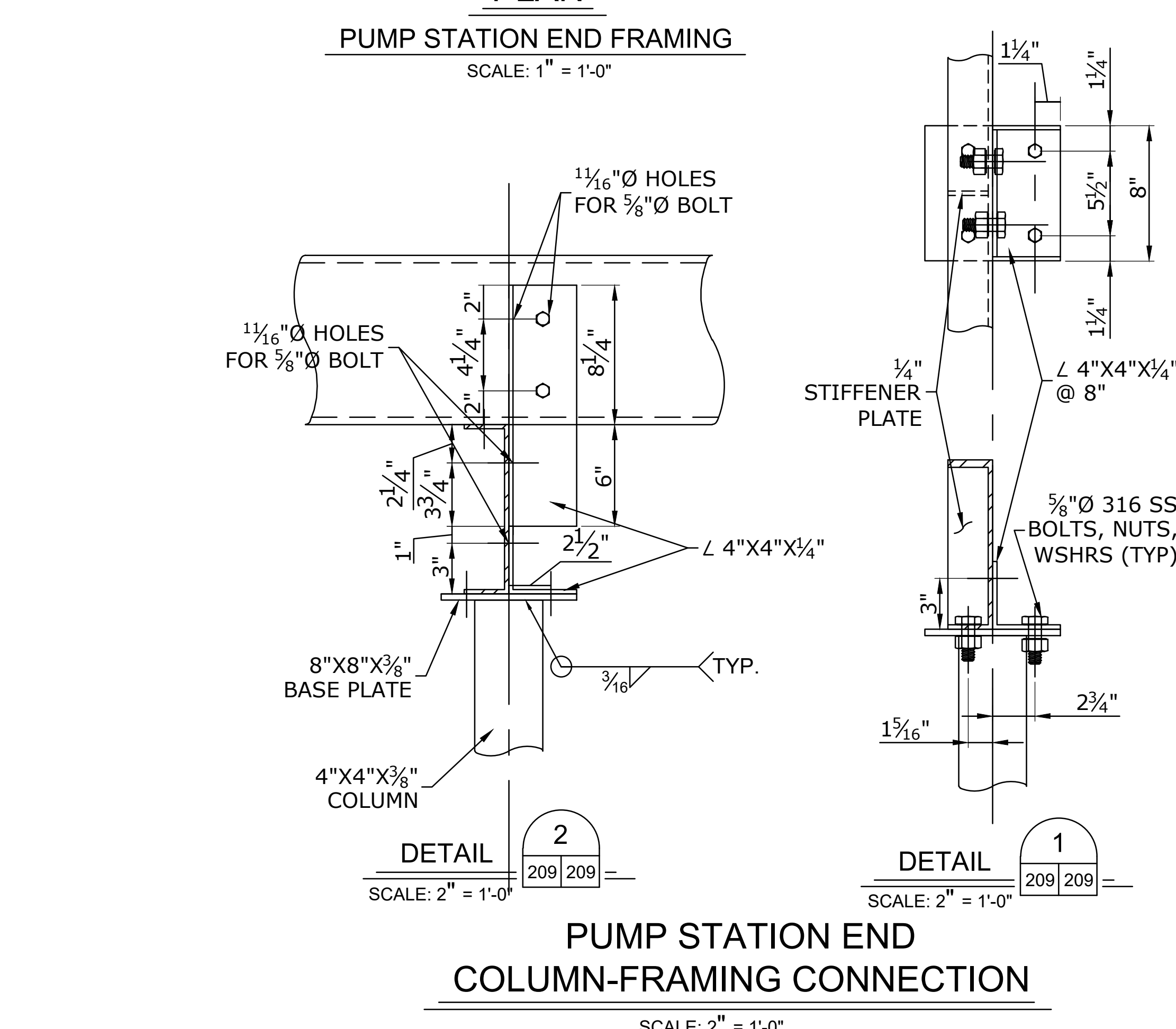
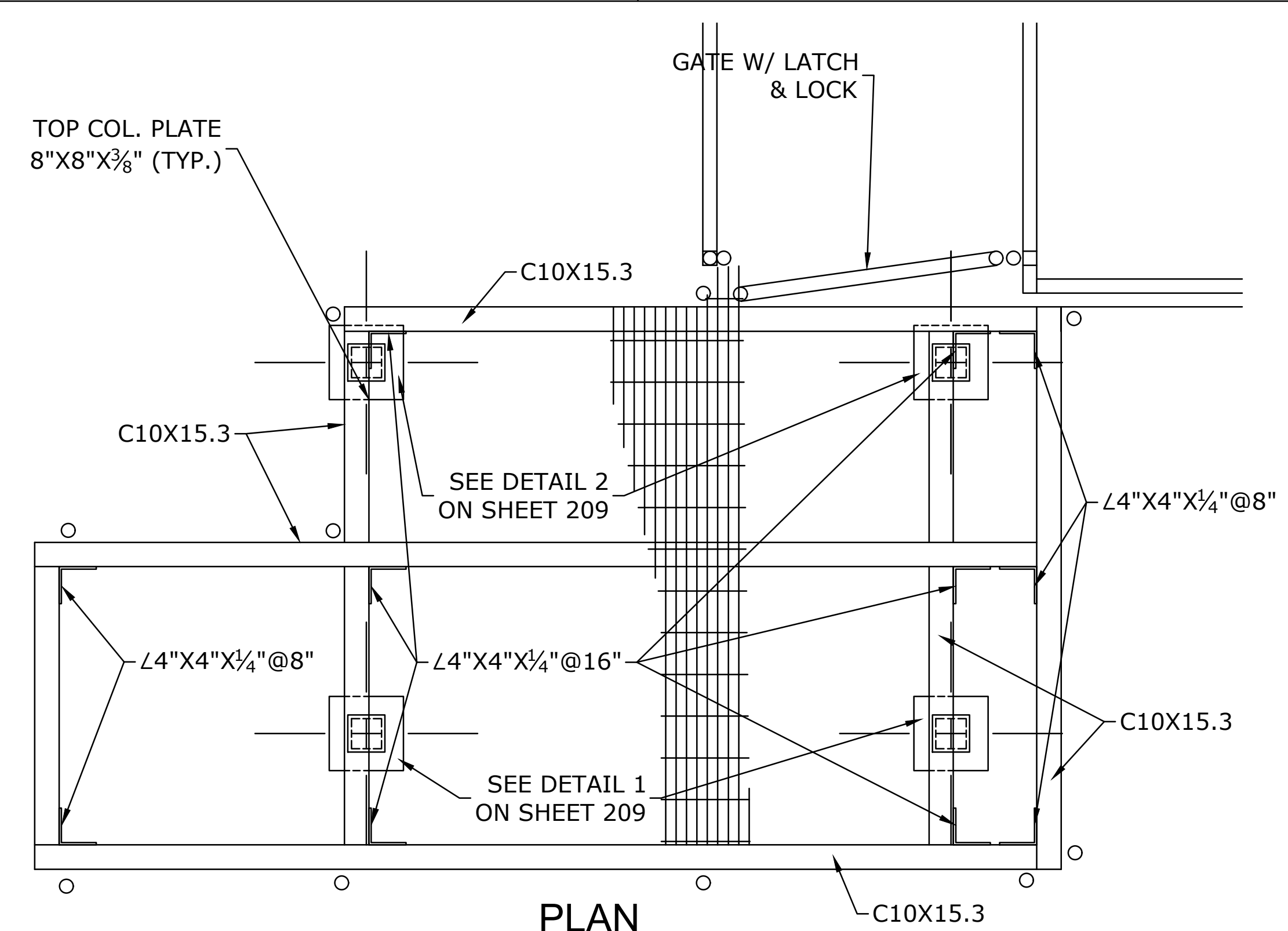
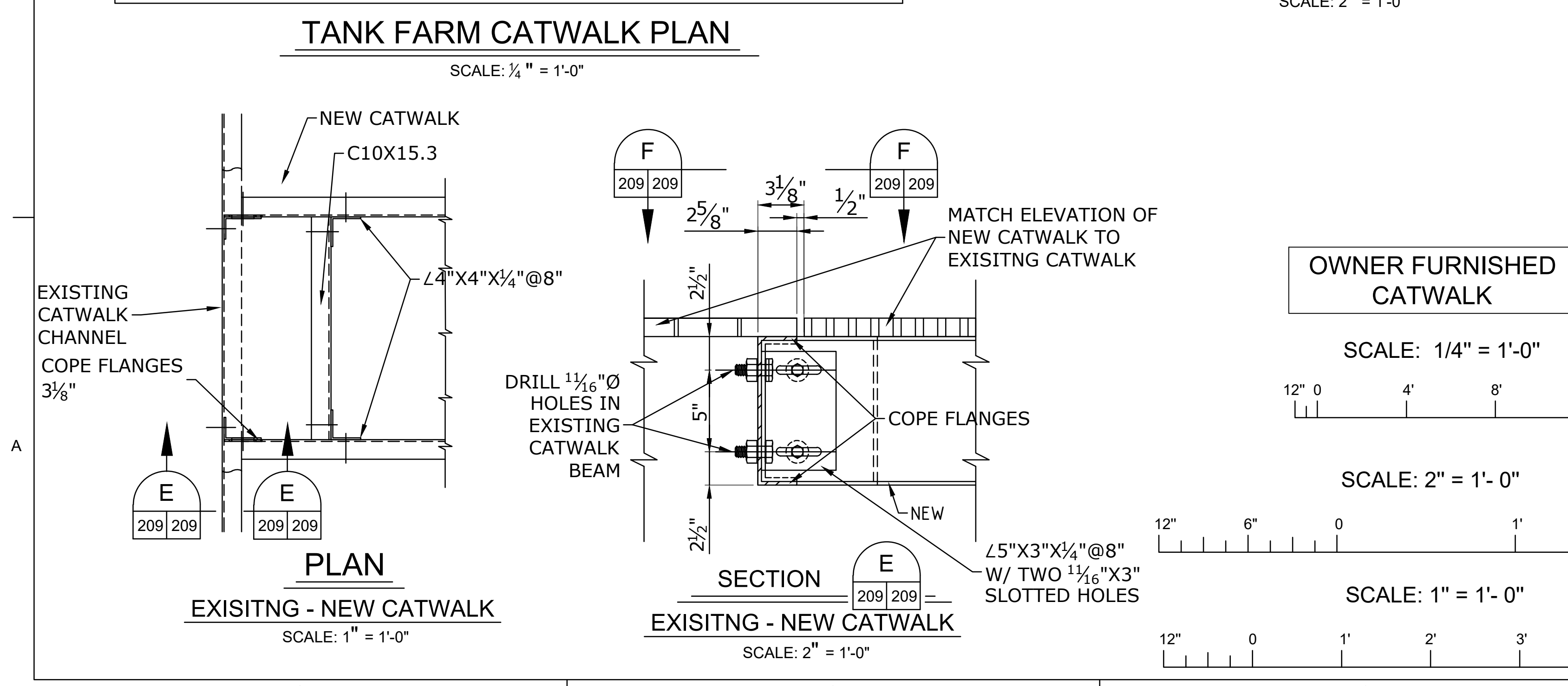
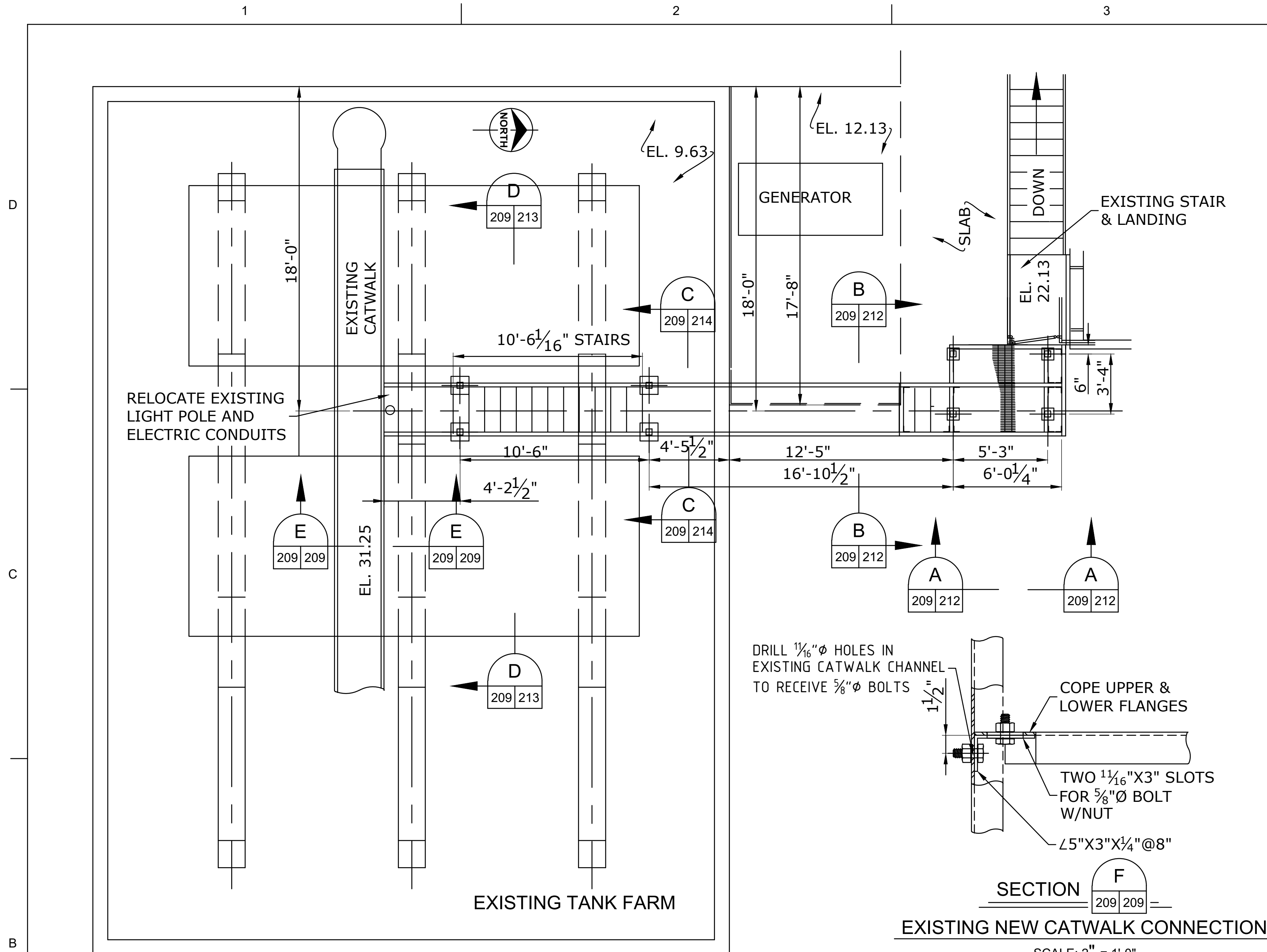
DESIGNED BY:	CHECKED BY:	PLLOT SCALE:	PROJECT NO.	FILE NAME:
DRAWN BY:	APPROVED BY:	DATE:	DATE:	

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MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 SOUTH PROTECTION EXTENSION
 ELEVATION, SECTIONS, DETAILS

SHEET IDENTIFICATION
208



NOTES:

- PRIOR TO ERECTION, SEE SHEET 211 FOR ANCHOR BOLT EMBEDMENT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS CORRECT ON OWNERS AS-BUILT DRAWING. IF AS-BUILT DIMENSIONS DIFFER FROM DRAWING, USE BASED AS-BUILT DIMENSIONS AS CORRECT.
- EMBEDDED ANCHOR BOLTS ARE TO FOLLOW ADHESIVE EPOXY MANUFACTURER'S INSTRUCTIONS FOR HOLE DIAMETER AND INSTALLATION.
- ADHESIVE EPOXY IS HILTI HIT-HY 100 OR APPROVED EQUAL.
- ALL ELEVATIONS ARE NAVD 88.
- CONTRACTOR SHALL COMPLETELY ERECT OWNER FURNISHED CATWALK.

ISSUED FOR CONSTRUCTION

DESIGNED BY: _____ CHECKED BY: _____

DRAWN BY: _____ APPROVED BY: _____

DATE: 06/03/2021

PROJECT NO: PA-20-06-008

FILE NAME: _____

REVISION DESCRIPTION

NO. _____ DATE _____ BY _____

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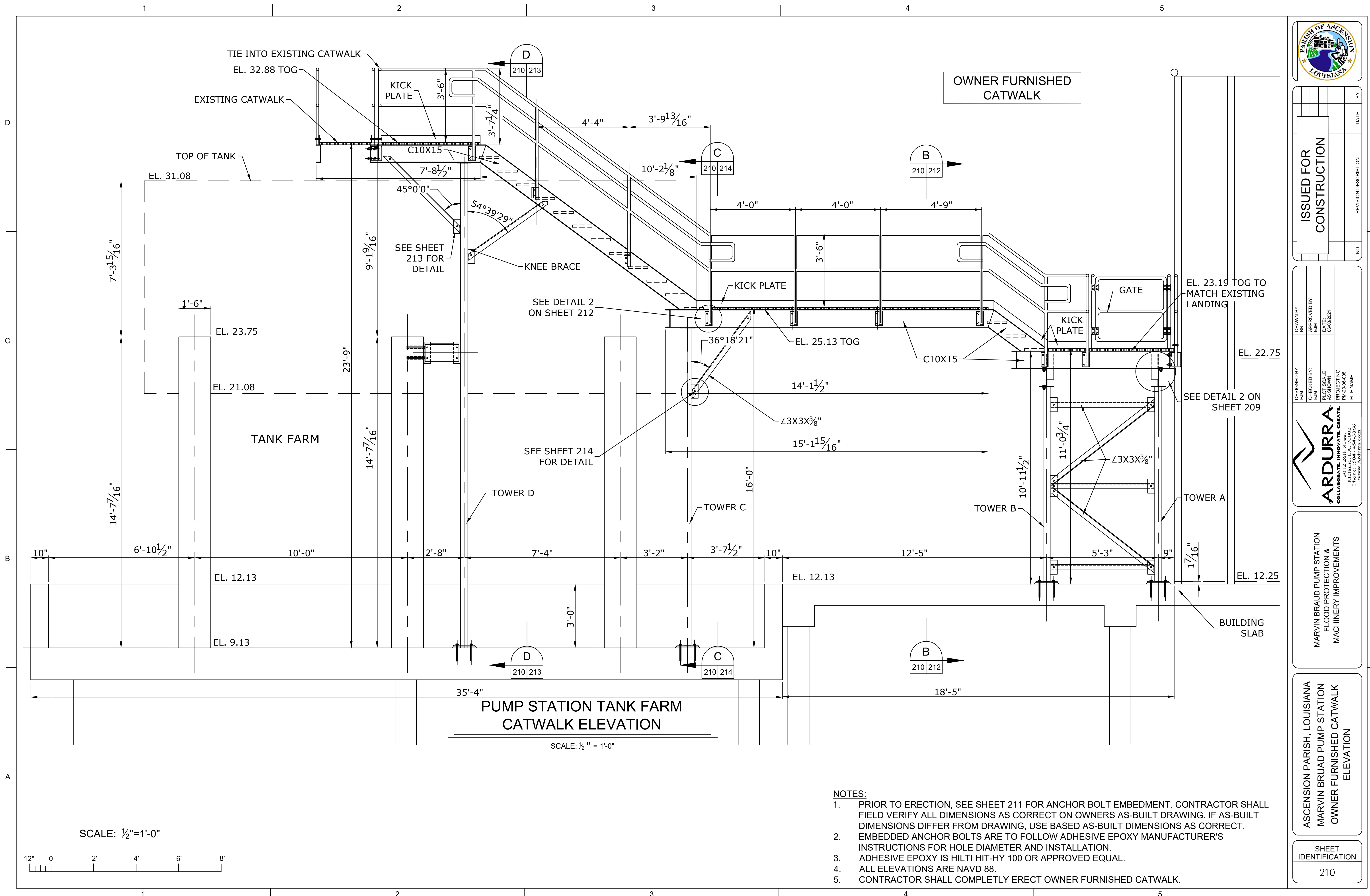
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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
OWNER FURNISHED CATWALK
PLANS, SECTIONS, DETAILS

SHEET IDENTIFICATION

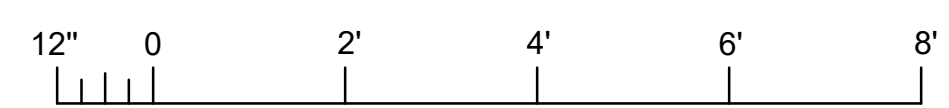
209



**PUMP STATION TANK FARM
CATWALK ELEVATION**

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

- NOTES:**
1. PRIOR TO ERECTION, SEE SHEET 211 FOR ANCHOR BOLT EMBEDMENT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS CORRECT ON OWNERS AS-BUILT DRAWING. IF AS-BUILT DIMENSIONS DIFFER FROM DRAWING, USE BASED AS-BUILT DIMENSIONS AS CORRECT.
 2. EMBEDDED ANCHOR BOLTS ARE TO FOLLOW ADHESIVE EPOXY MANUFACTURER'S INSTRUCTIONS FOR HOLE DIAMETER AND INSTALLATION.
 3. ADHESIVE EPOXY IS HILTI HIT-HY 100 OR APPROVED EQUAL.
 4. ALL ELEVATIONS ARE NAVD 88.
 5. CONTRACTOR SHALL COMPLETELY ERECT OWNER FURNISHED CATWALK.



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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

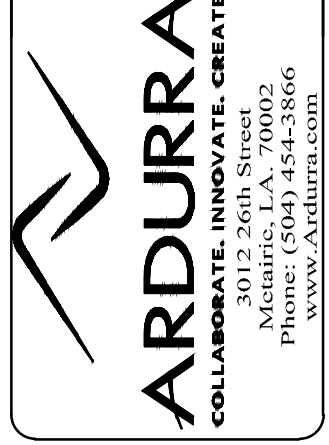
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
OWNER FURNISHED CATWALK
ELEVATION

SHEET IDENTIFICATION
210



ISSUED FOR CONSTRUCTION	DATE	BY
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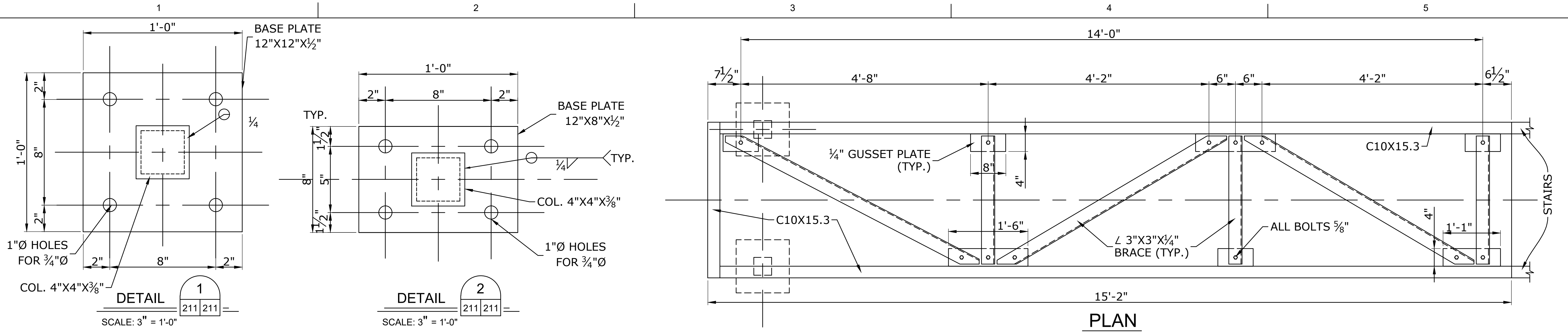
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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
OWNER FURNISHED CATWALK
ANCHOR BOLT PLAN & DETAILS

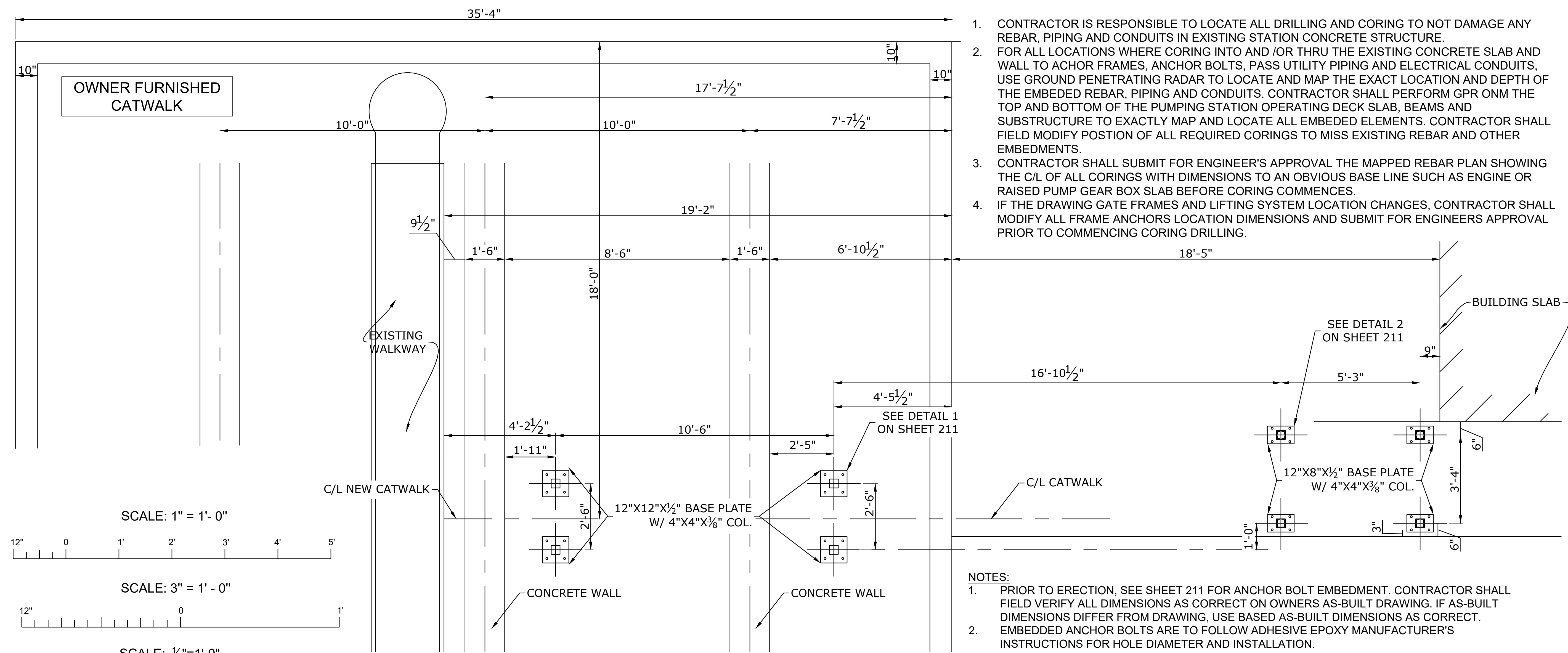
SHEET IDENTIFICATION
211



PLAN
CATWALK BETWEEN TOWER B AND C
SCALE: 1" = 1'-0"

NOTES ON CONCRETE CORING:

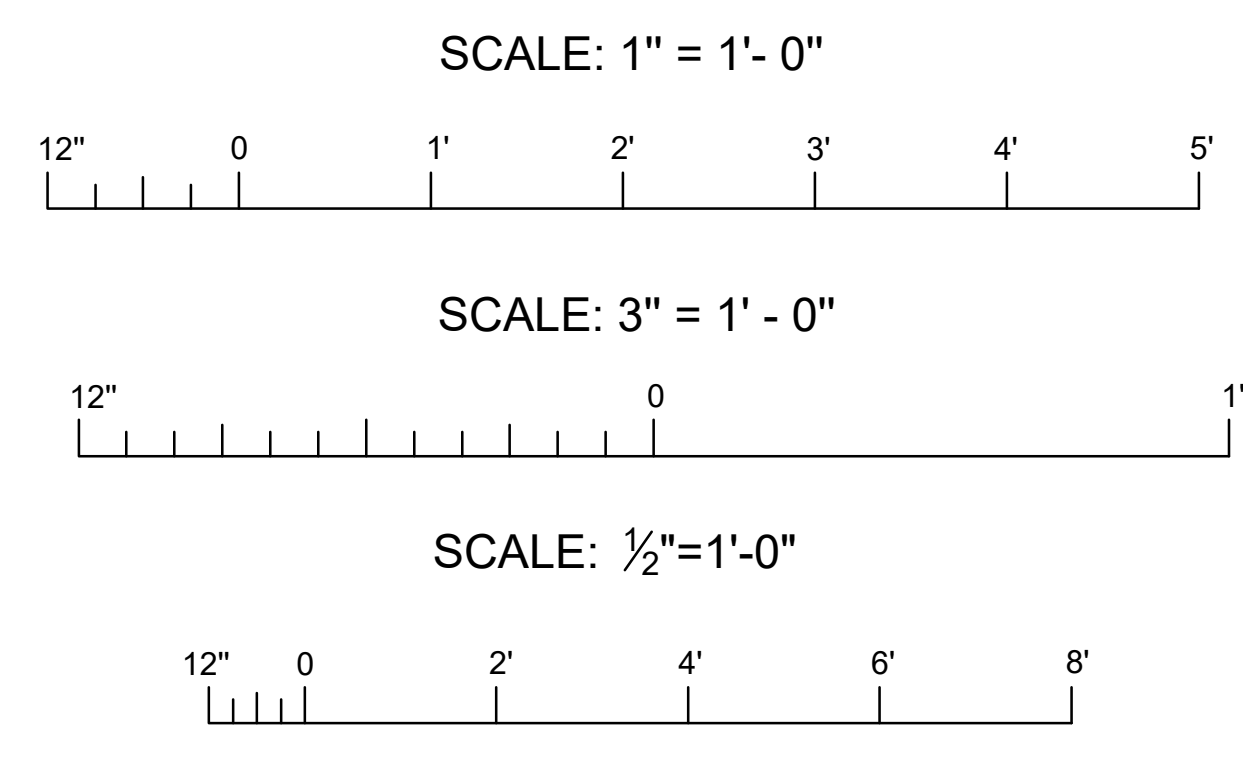
1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
2. FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ACHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSITION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
3. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
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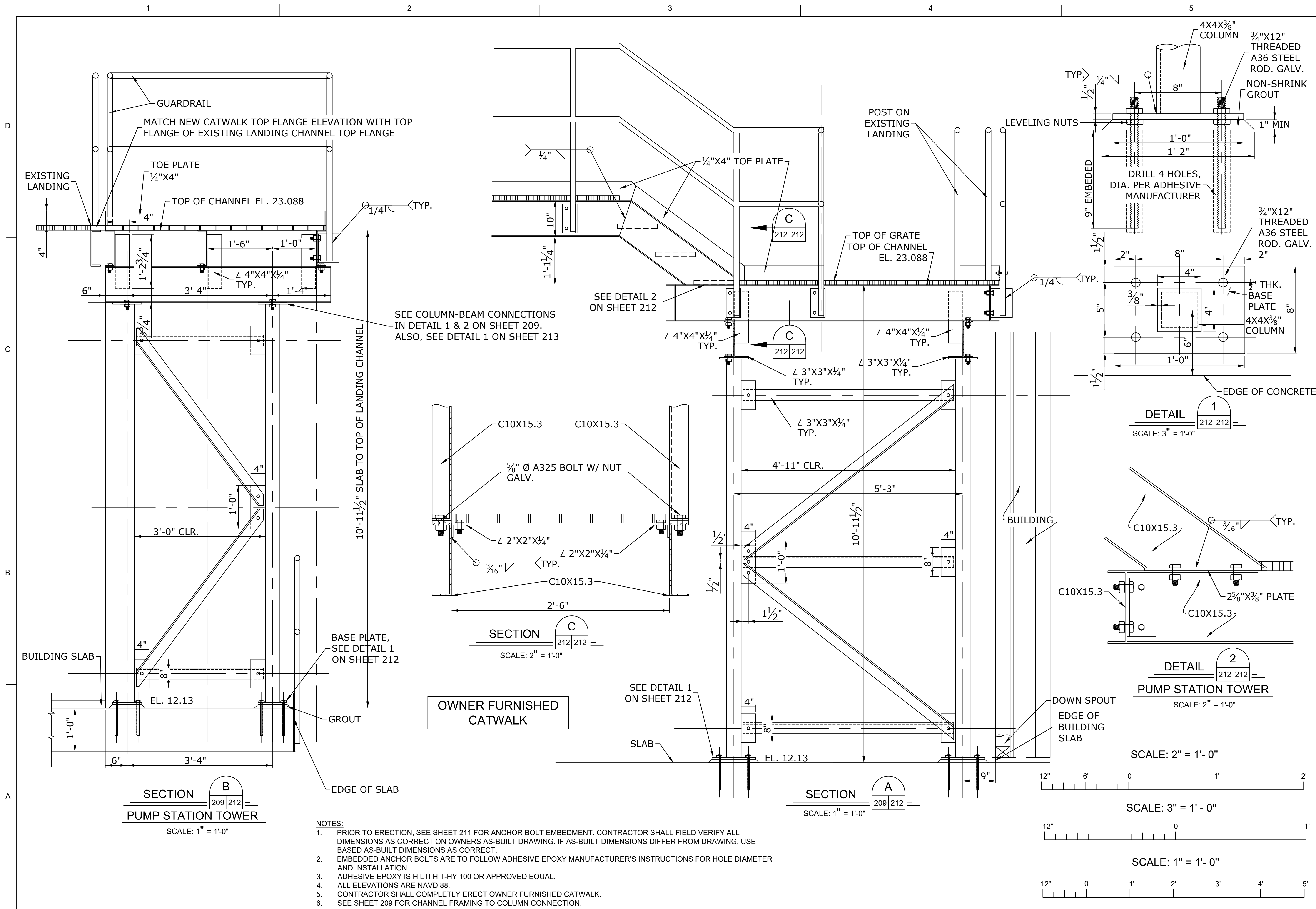


CATWALK ANCHOR BOLT PLAN
SCALE: 1/2" = 1'-0"

NOTES:

1. PRIOR TO ERECTION, SEE SHEET 211 FOR ANCHOR BOLT EMBEDMENT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS CORRECT ON OWNERS AS-BUILT DRAWING. IF AS-BUILT DIMENSIONS DIFFER FROM DRAWING, USE BASED AS-BUILT DIMENSIONS AS CORRECT.
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4. ALL ELEVATIONS ARE NAVD 88.
5. CONTRACTOR SHALL COMPLETELY ERECT OWNER FURNISHED CATWALK.





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EMM	EMM	EMM	06/03/2021	
PLOT SCALE:		PROJECT NO.:		
AE SHOWN		PA-2019-08		
3012 26th Street		FILE NAME:		
Metairie, LA 70002				
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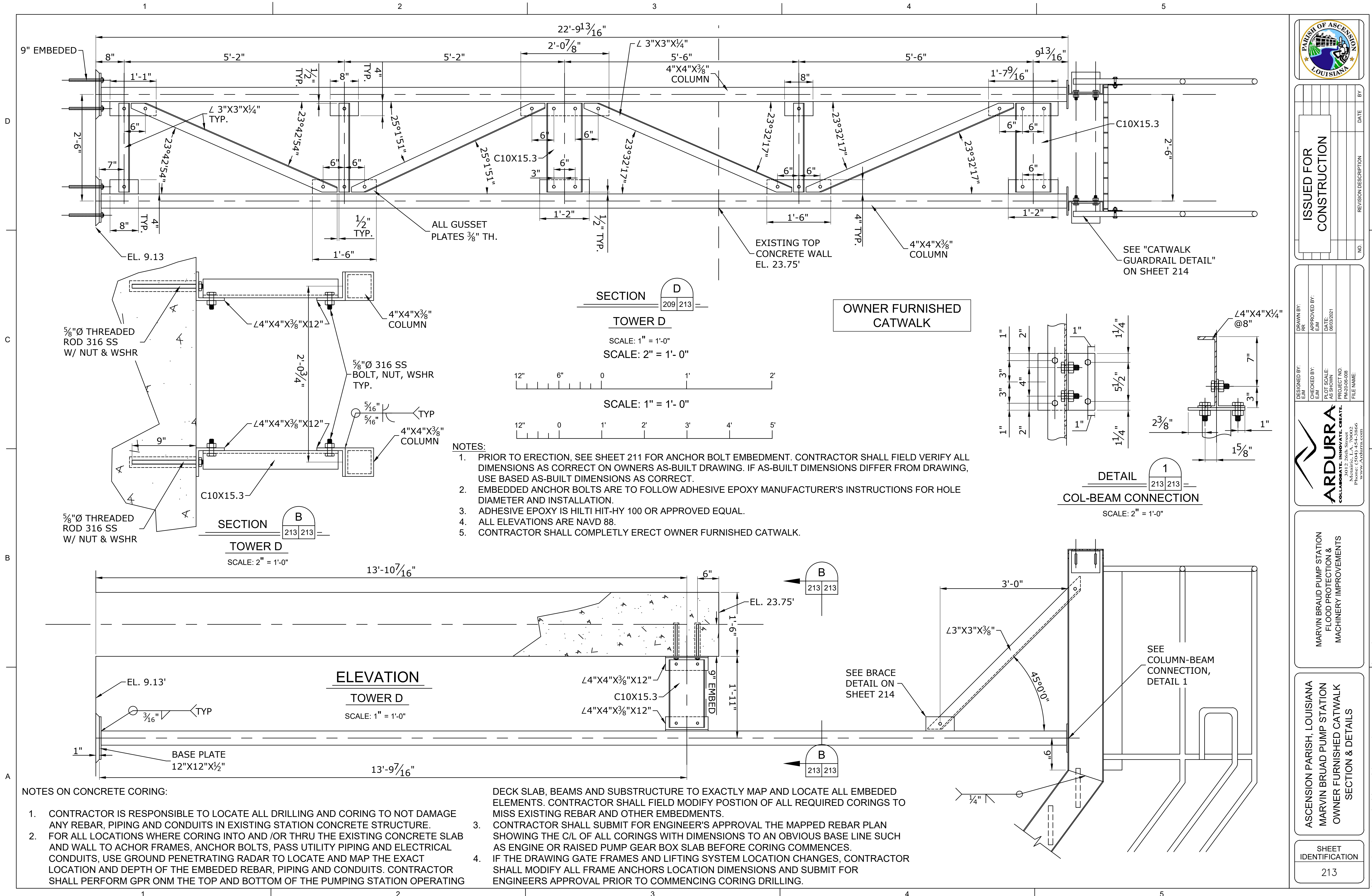
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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
OWNER FURNISHED CATWALK
SECTIONS & DETAILS

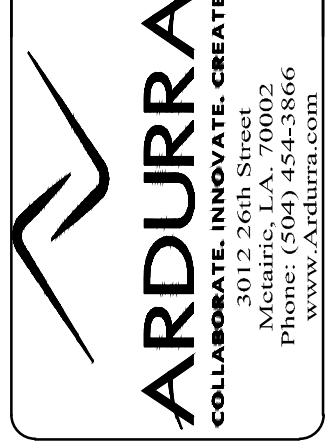
SHEET IDENTIFICATION

212



NO.	REVISION DESCRIPTION	DATE	BY

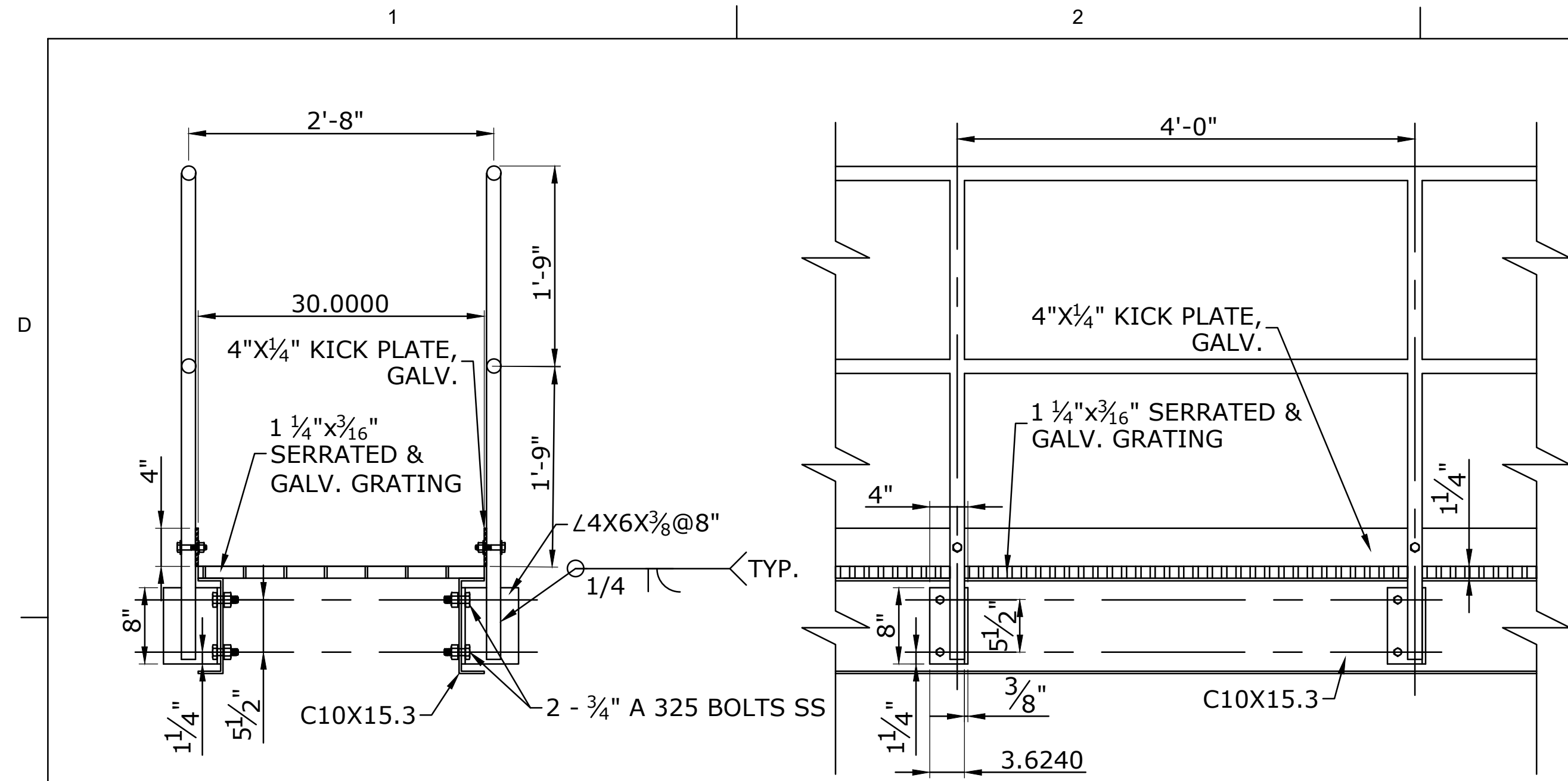
DESIGNED BY: EIM	CHECKED BY: EIM	DATE: 06/03/2021
DRAWN BY: EIM	APPROVED BY: EIM	PROJECT NO. PA-20-06-008
PLOT SCALE: AS SHOWN		FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

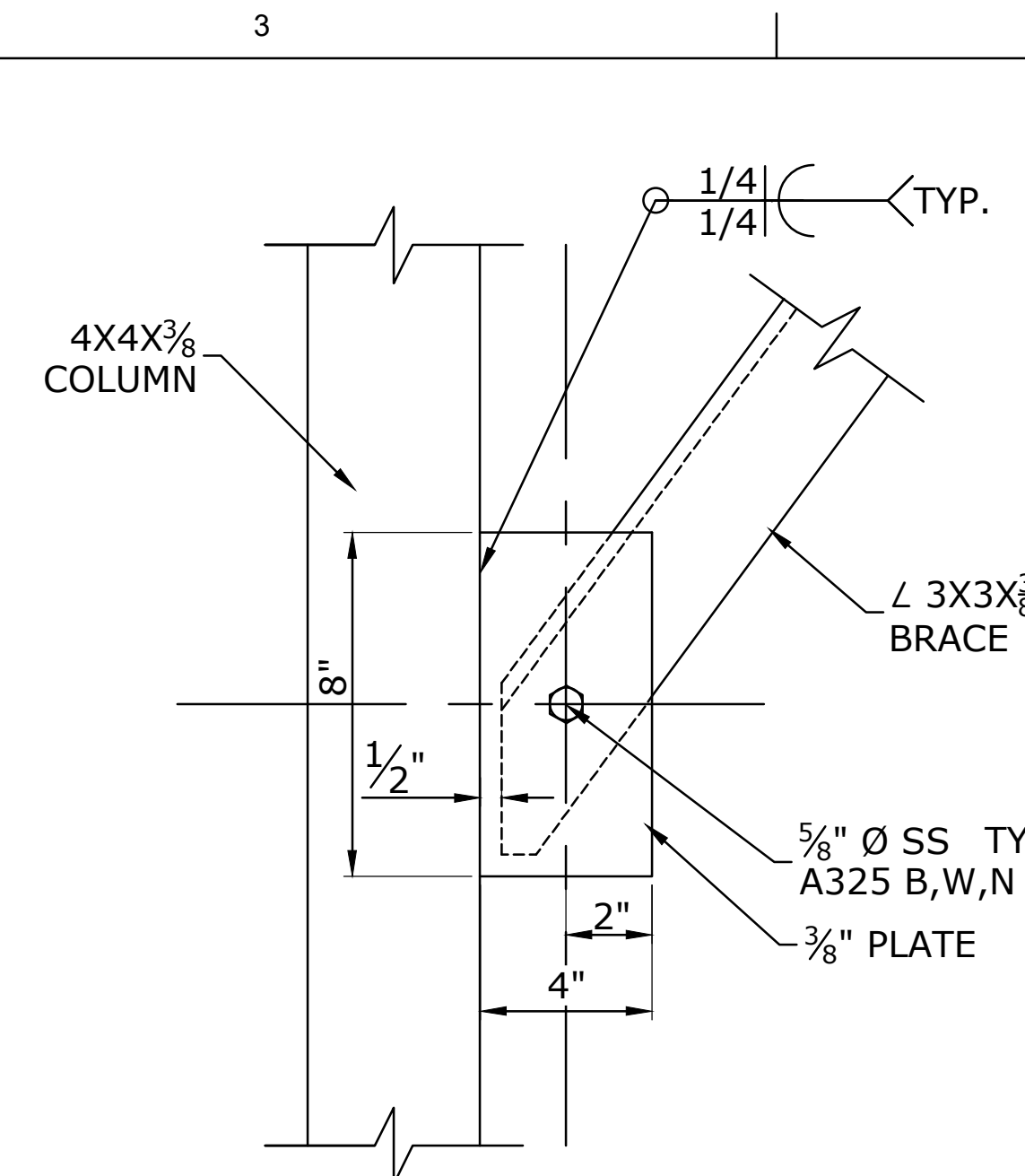
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
OWNER FURNISHED CATWALK
SECTION & DETAILS

SHEET IDENTIFICATION
213



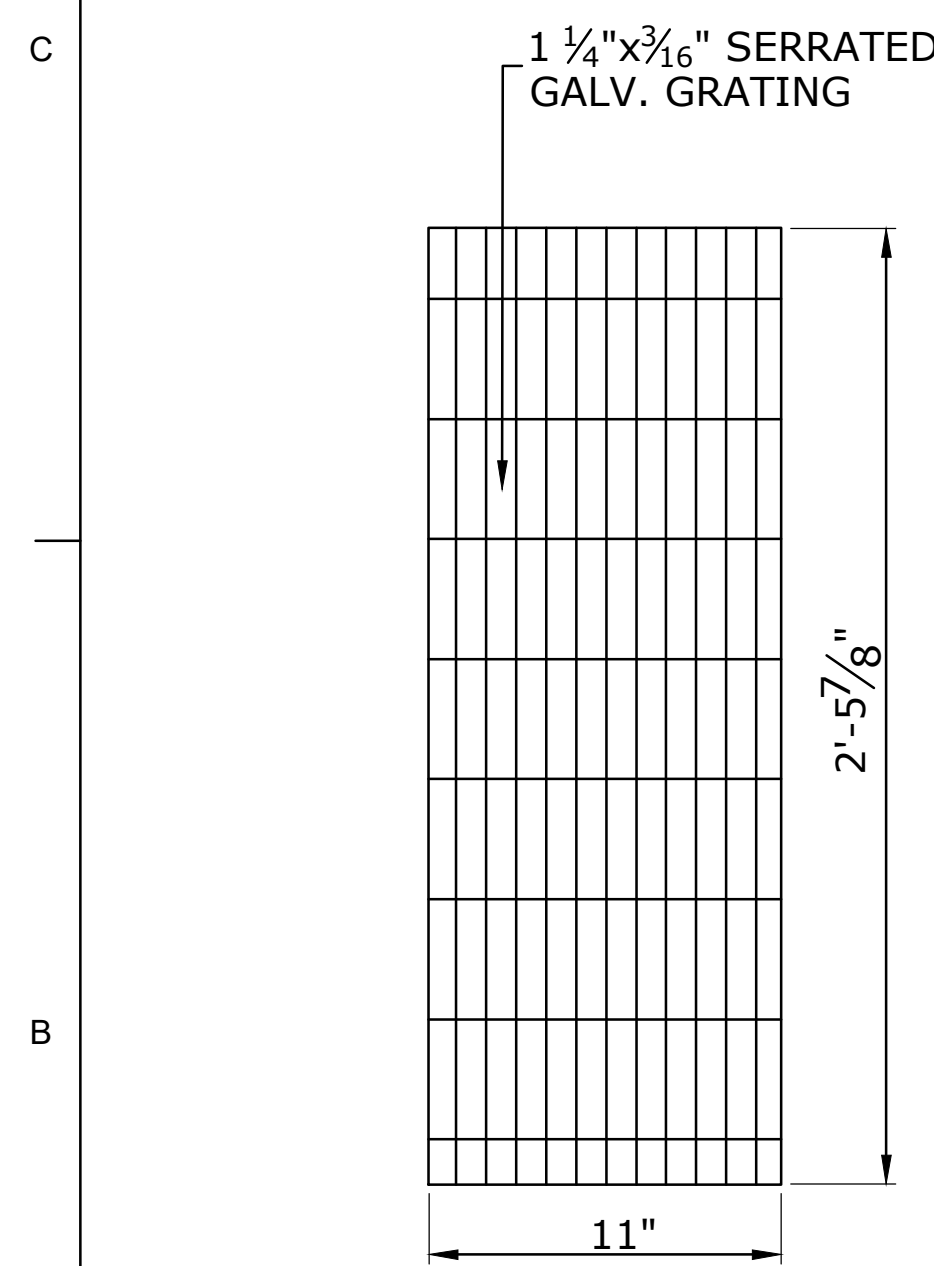
CATWALK GUARDRAIL DETAIL

SCALE: 1" = 1'-0"



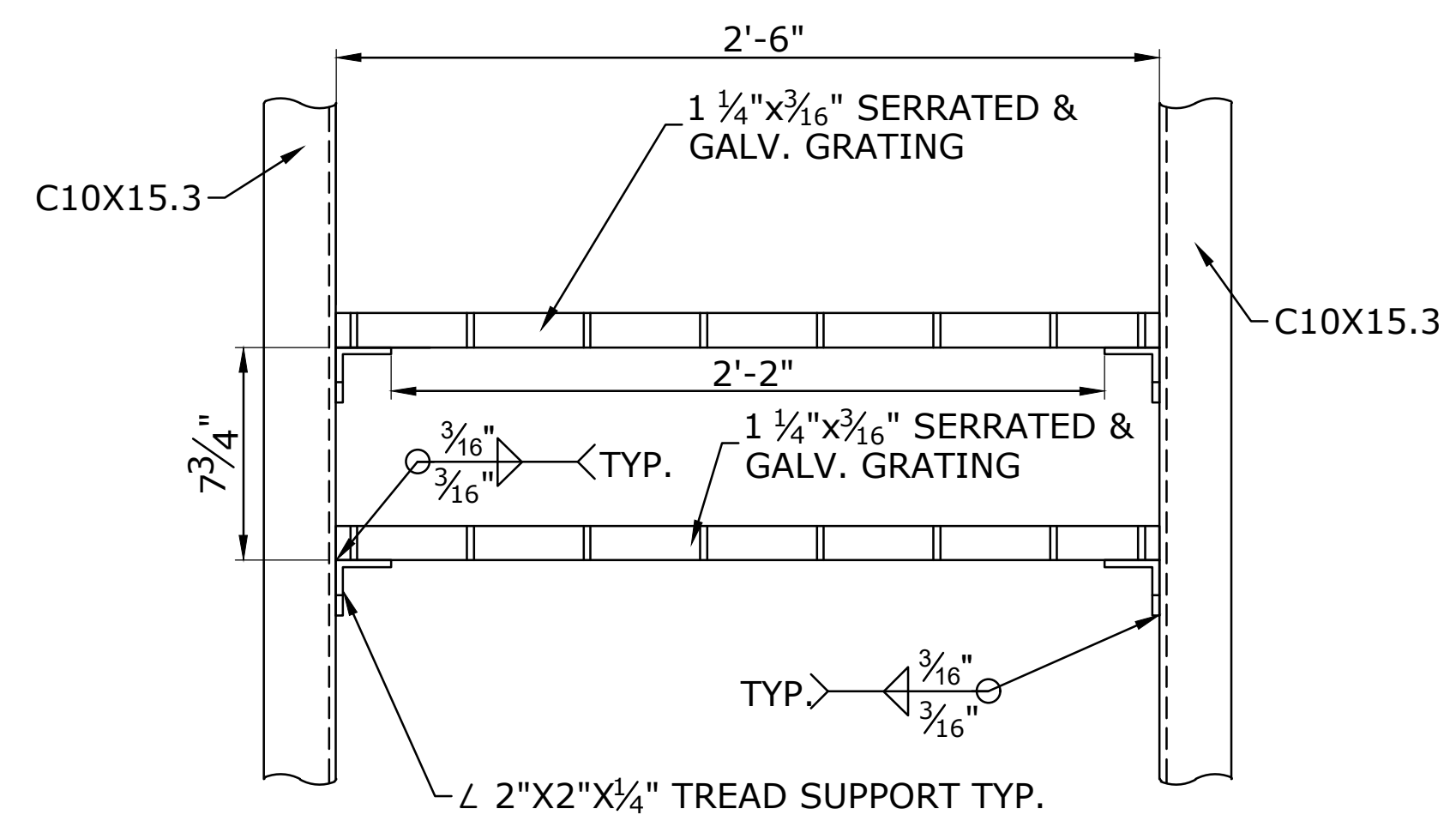
**TOWER C BRACE DETAIL
(TOWER D BRACE OPPOSITE HAND)**

SCALE: 3" = 1'-0"



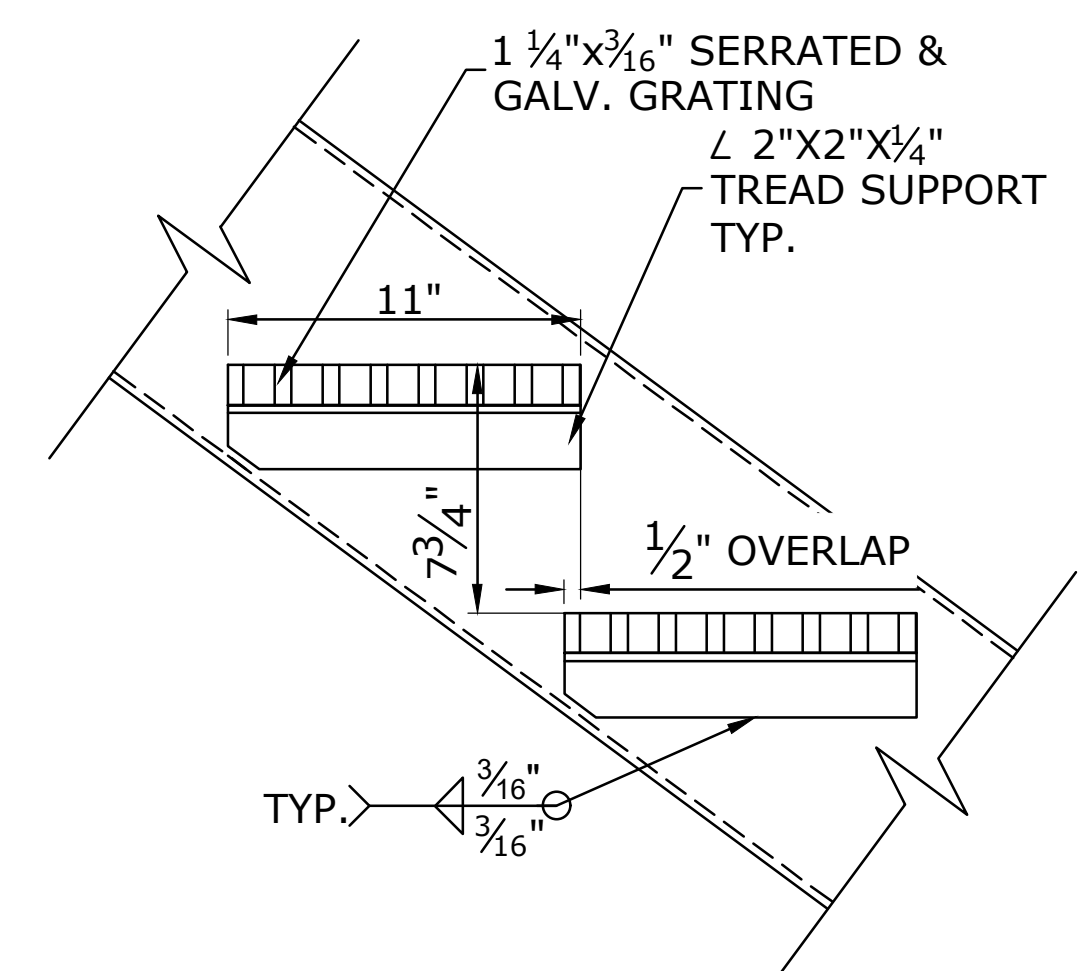
GALVANIZED TREAD DETAIL

SCALE: 2" = 1'-0"



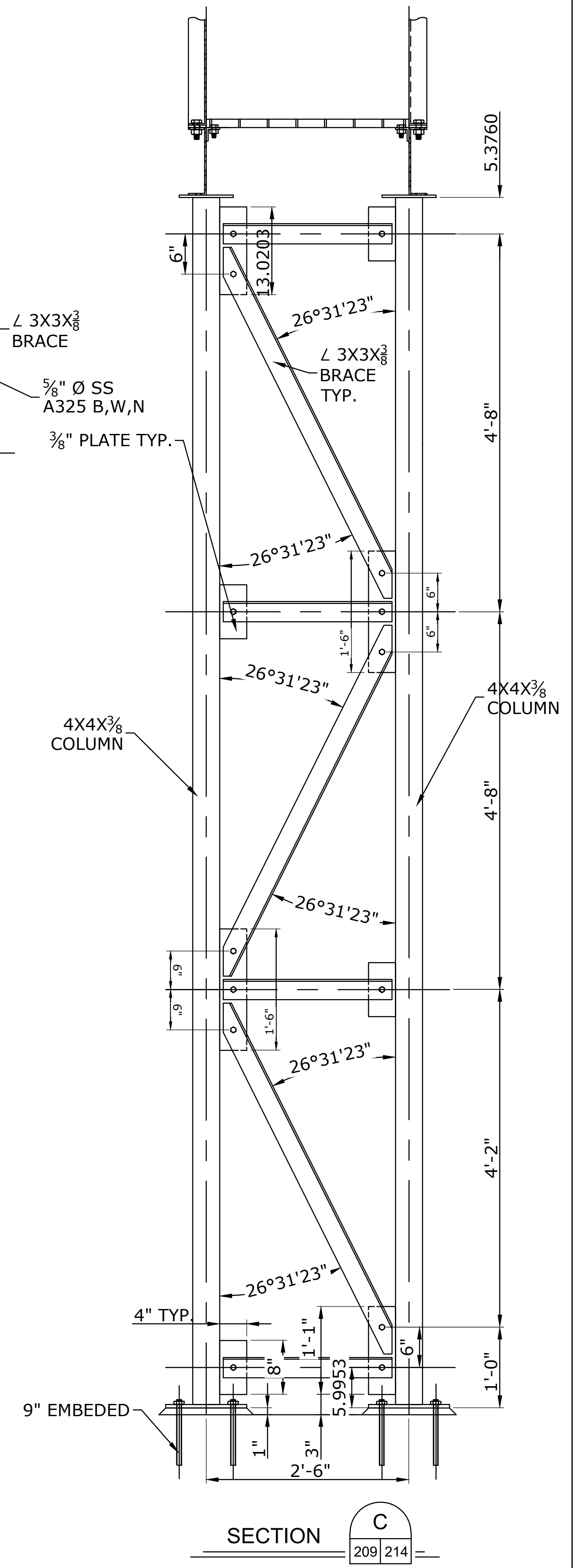
STAIR TREAD SECTION

SCALE: 2" = 1'-0"



STAIR TREAD DETAIL

SCALE: 2" = 1'-0"



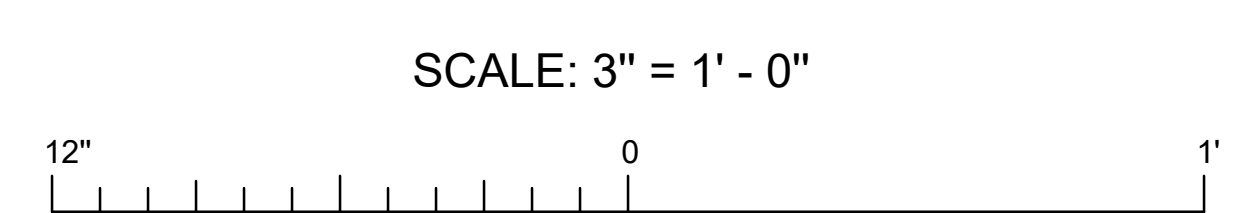
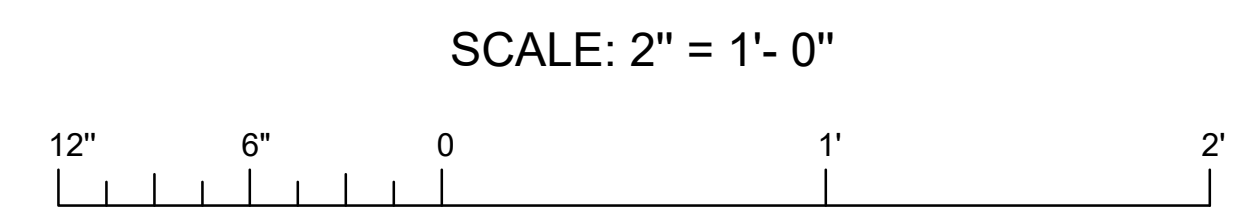
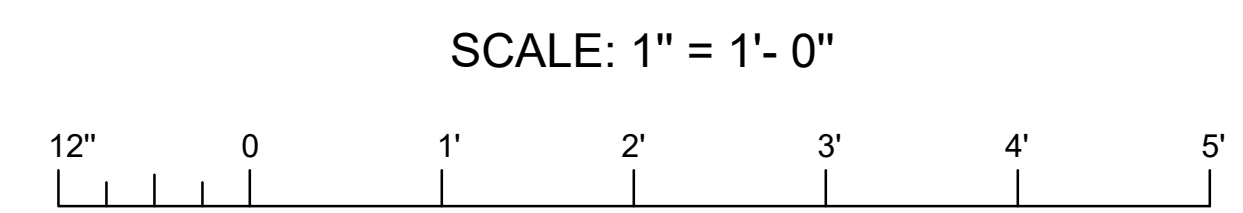
SECTION C


TOWER C

SCALE: 1" = 1'-0"

OWNER FURNISHED
CATWALK

- NOTES:**
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PROJECT NO.:	PA-20-06-008	FILE NAME:	

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MARVIN BRAUD PUMP STATION
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MACHINERY IMPROVEMENTS

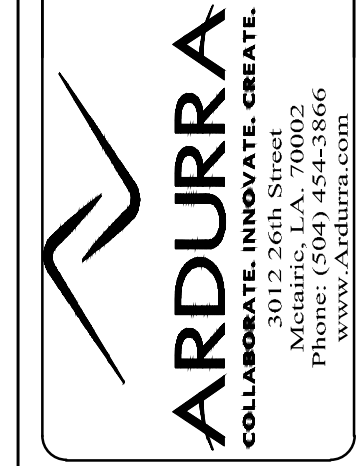
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
OWNER FURNISHED CATWALK
CATWALK DETAILS & TOWER C SECTION

SHEET IDENTIFICATION
214



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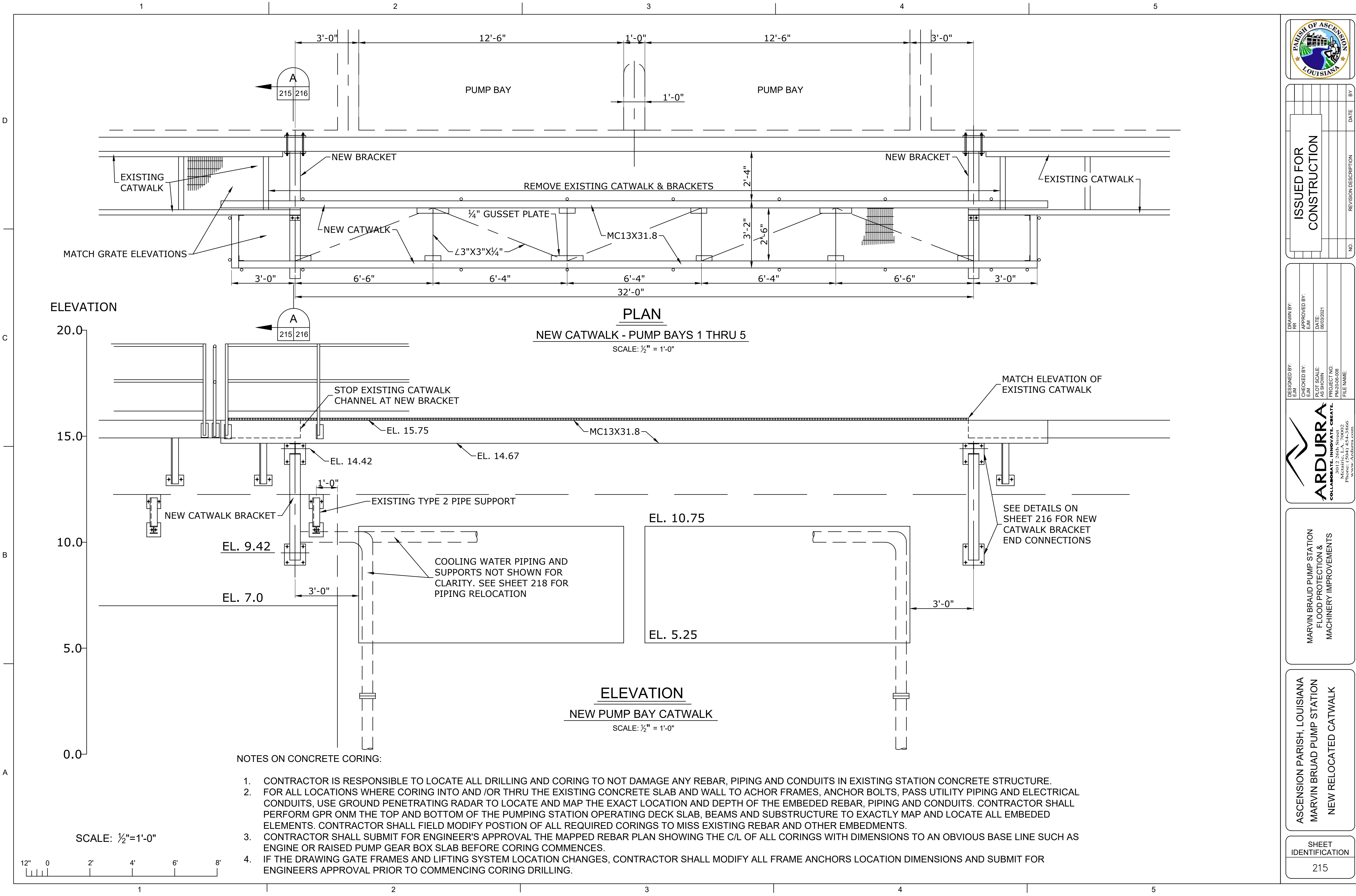
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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NEW RELOCATED CATWALK

SHEET IDENTIFICATION
215



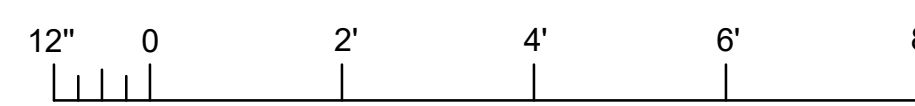
PLAN
NEW CATWALK - PUMP BAYS 1 THRU 5
SCALE: 1/2" = 1'-0"

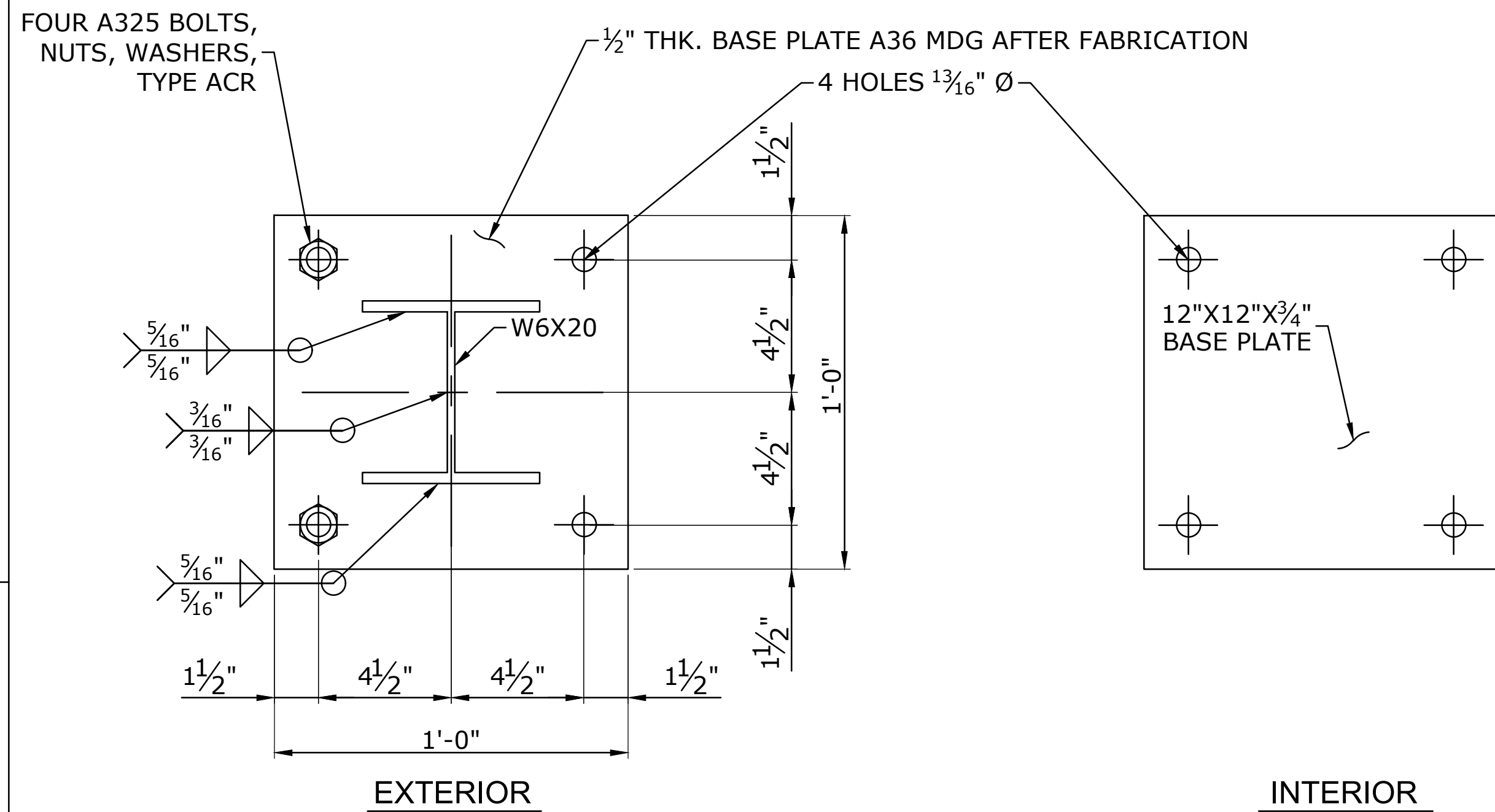
ELEVATION
NEW PUMP BAY CATWALK
SCALE: 1/2" = 1'-0"

NOTES ON CONCRETE CORING:

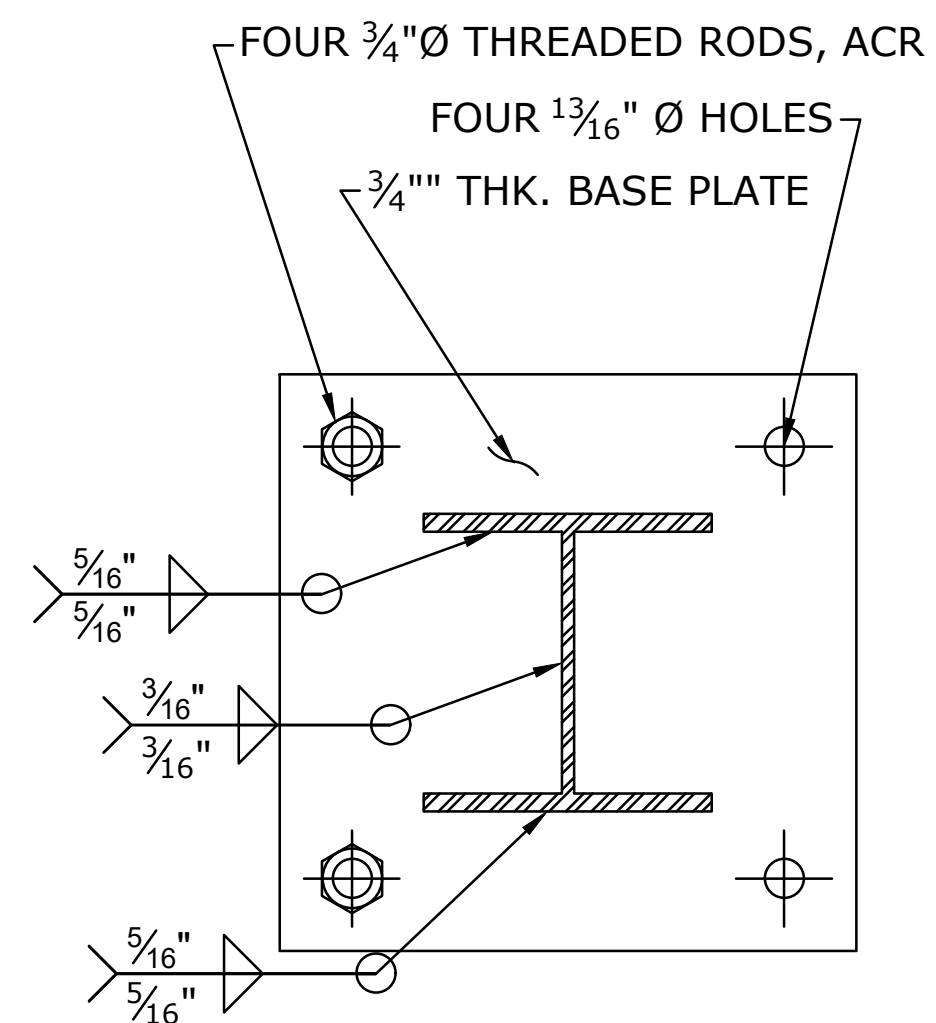
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SCALE: 1/2"=1'-0"





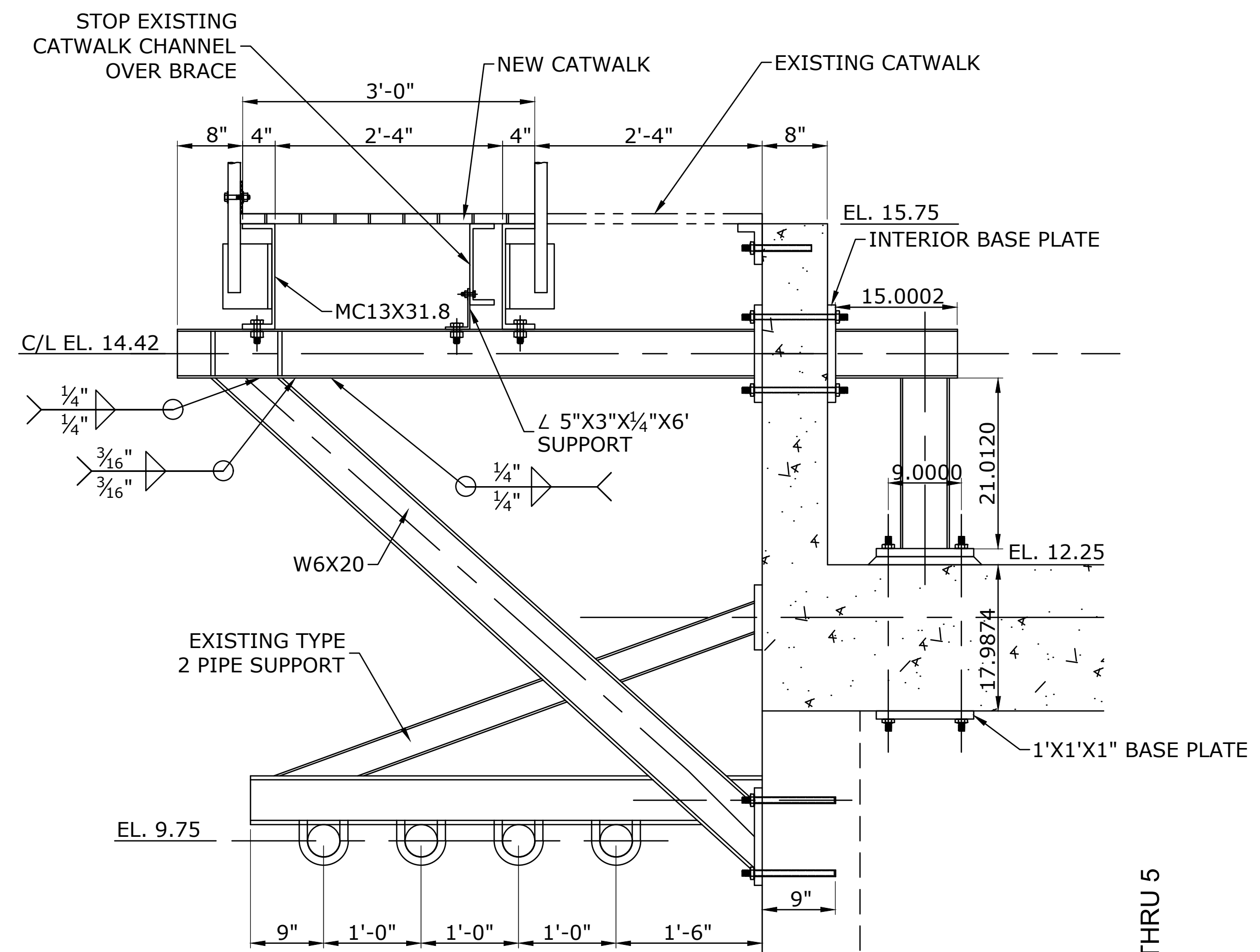
TOP BASE PLATES
PUMP CATWALK BRACKET
SCALE: 3" = 1'-0"



BOTTOM BASE PLATES
PUMP CATWALK BRACKET
SCALE: 3" = 1'-0"

NOTES ON CONCRETE CORING:

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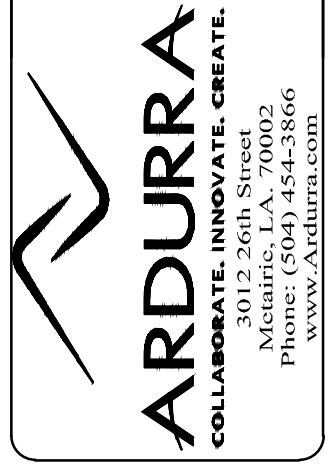
SECTION A
PUMP CATWALK BRACKET
SCALE: 1" = 1'-0"

PUMP BAYS 1 THRU 5



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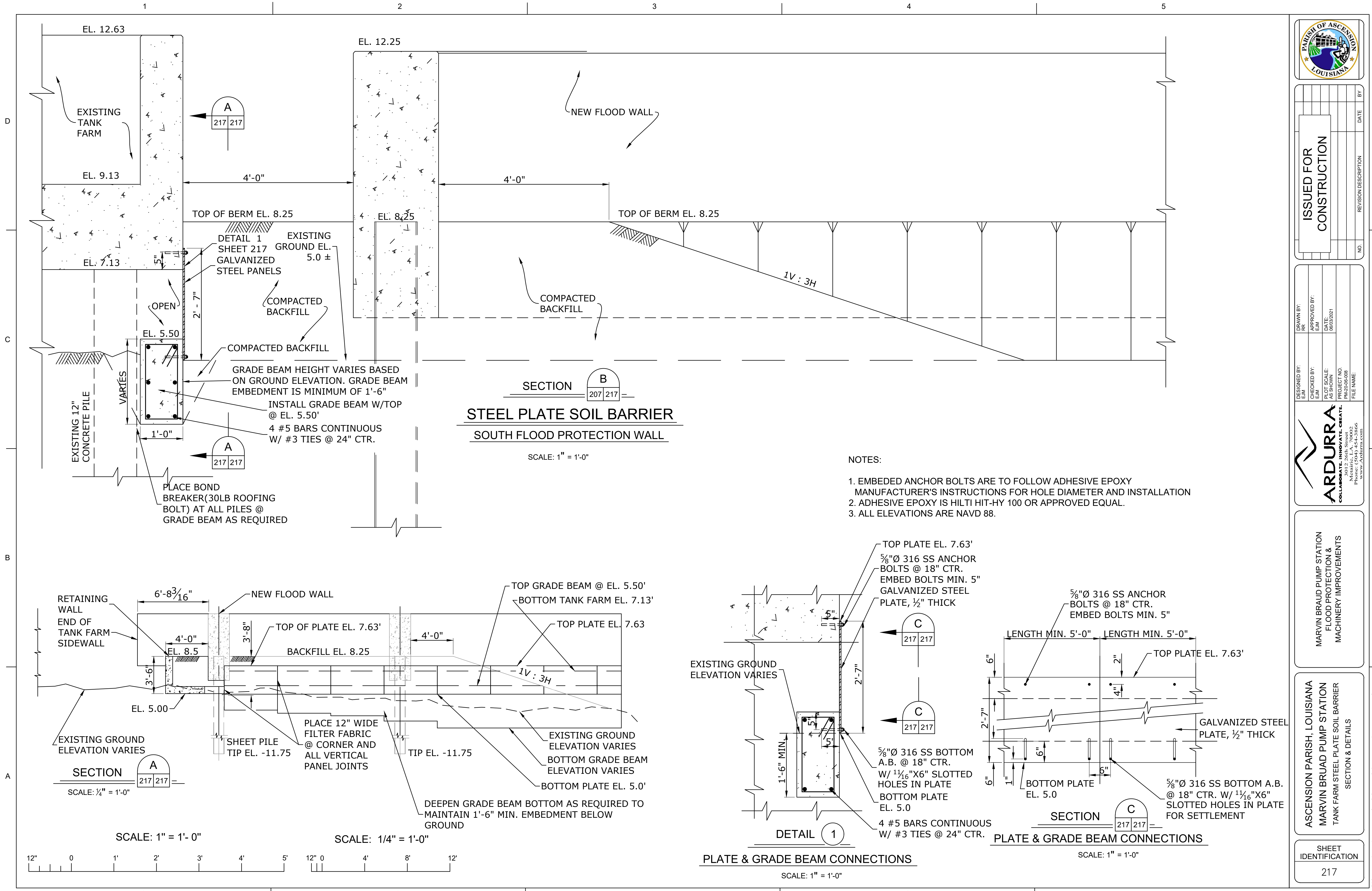
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DATE:	DATE:	DATE:
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NEW CATWALK BRACKETS
CATWALK DETAILS

SHEET IDENTIFICATION
216



A
217 217

B
207 217

C
217 217

C
217 217

A
217 217

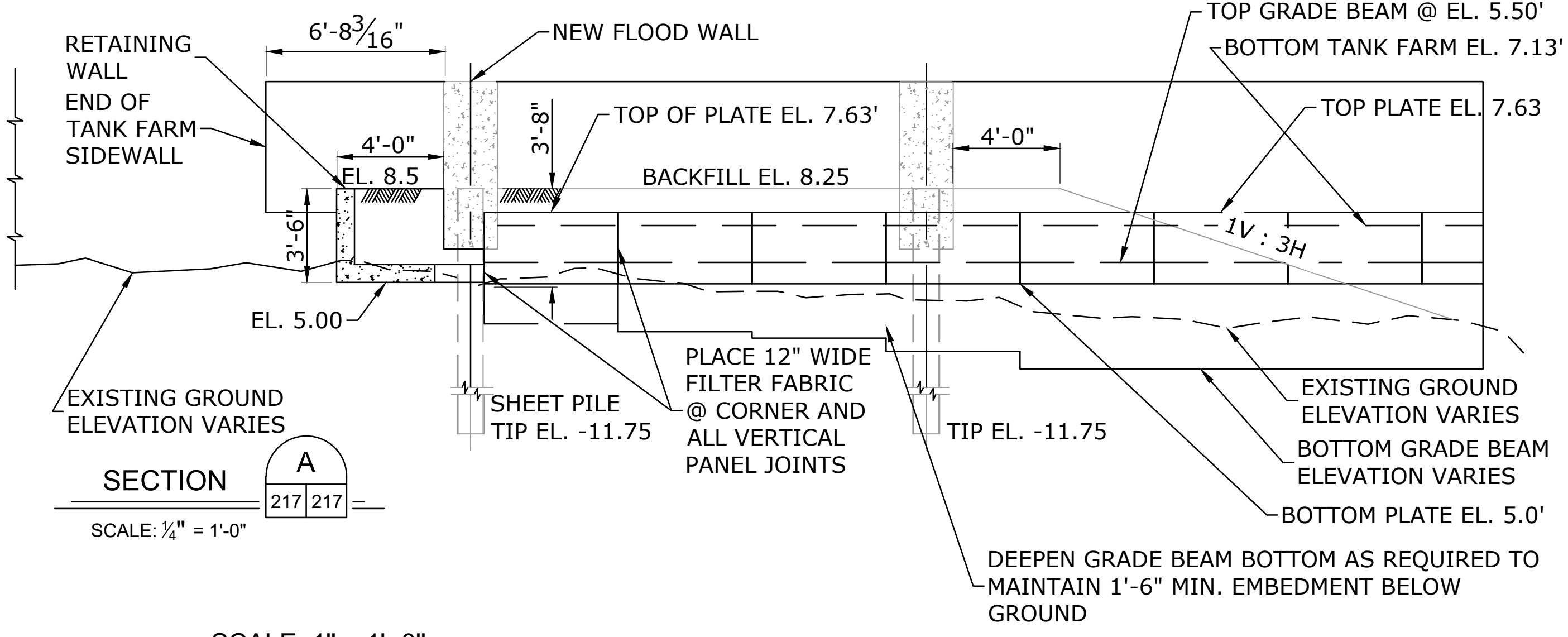
C
217 217

SECTION B
STEEL PLATE SOIL BARRIER
SOUTH FLOOD PROTECTION WALL

SCALE: 1" = 1'-0"

NOTES:

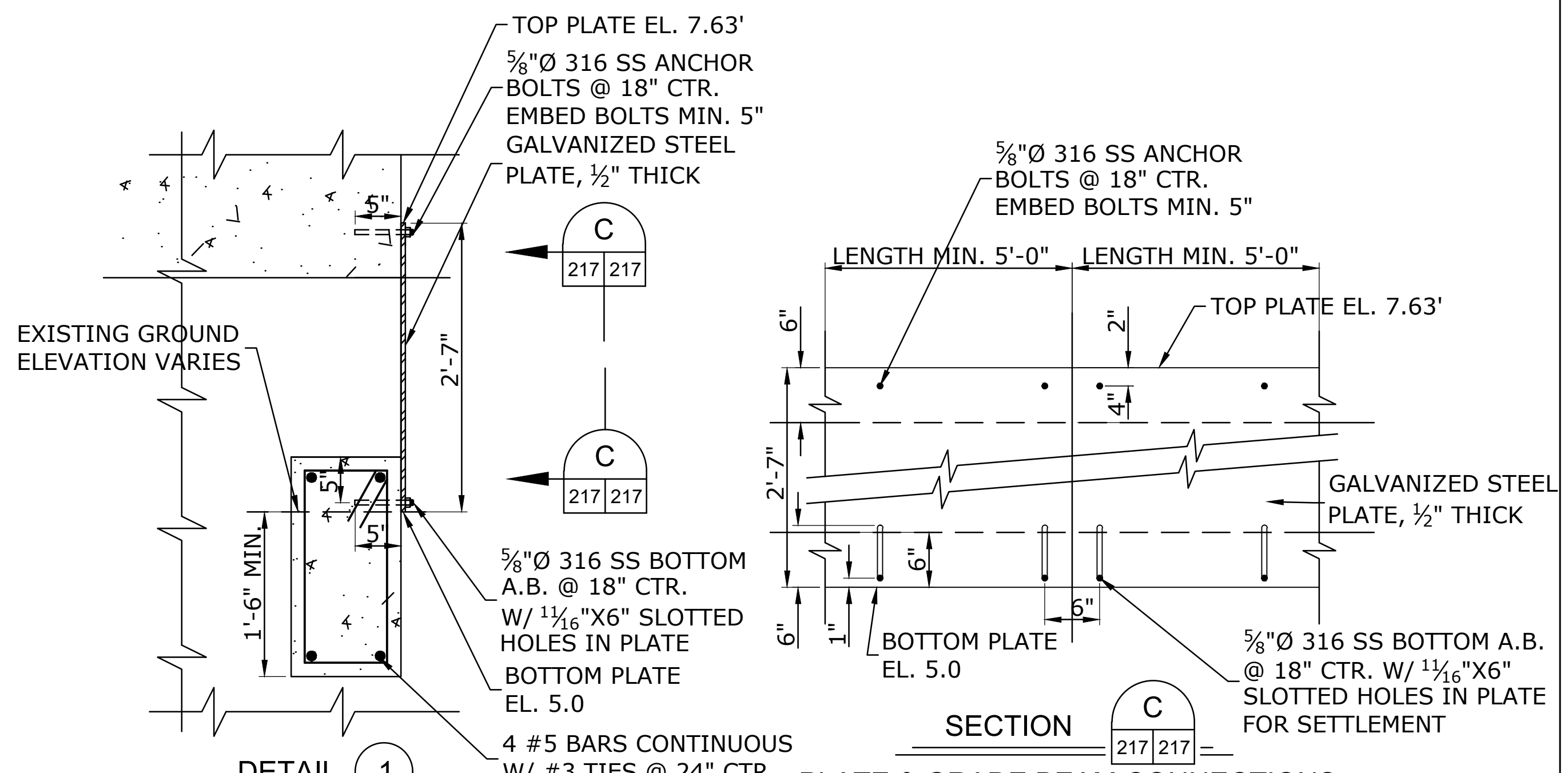
1. EMBEDDED ANCHOR BOLTS ARE TO FOLLOW ADHESIVE EPOXY MANUFACTURER'S INSTRUCTIONS FOR HOLE DIAMETER AND INSTALLATION
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3. ALL ELEVATIONS ARE NAVD 88.



SECTION A
217 217

SCALE: 1" = 1'-0"

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



DETAIL 1

PLATE & GRADE BEAM CONNECTIONS

SCALE: 1" = 1'-0"

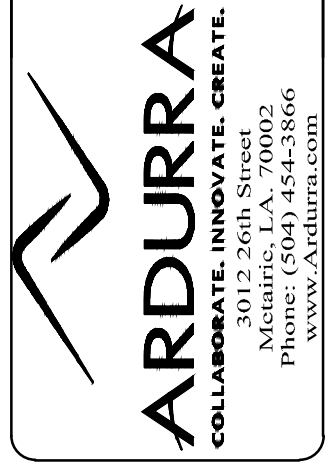
SECTION C
PLATE & GRADE BEAM CONNECTIONS

SCALE: 1" = 1'-0"



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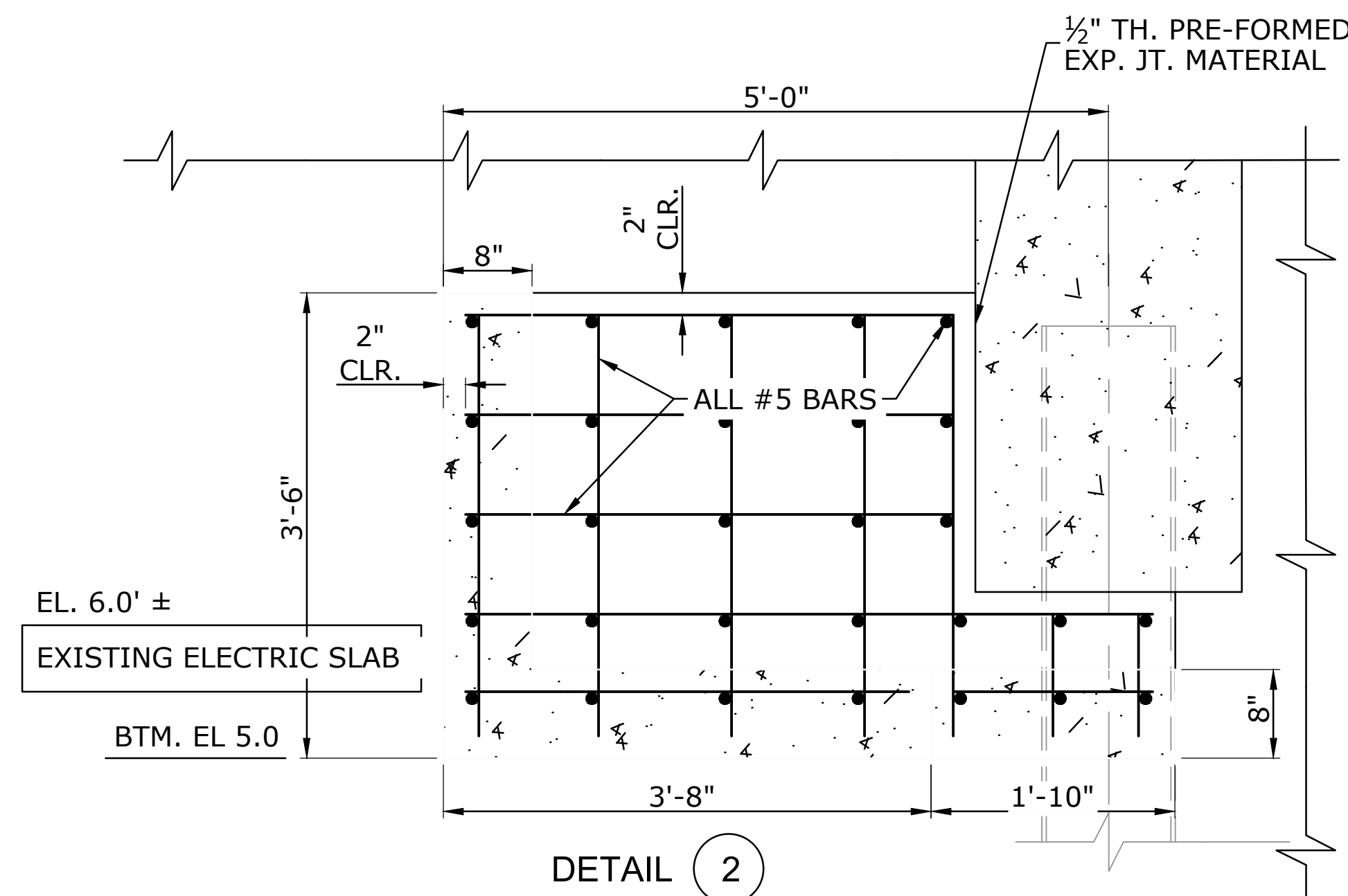
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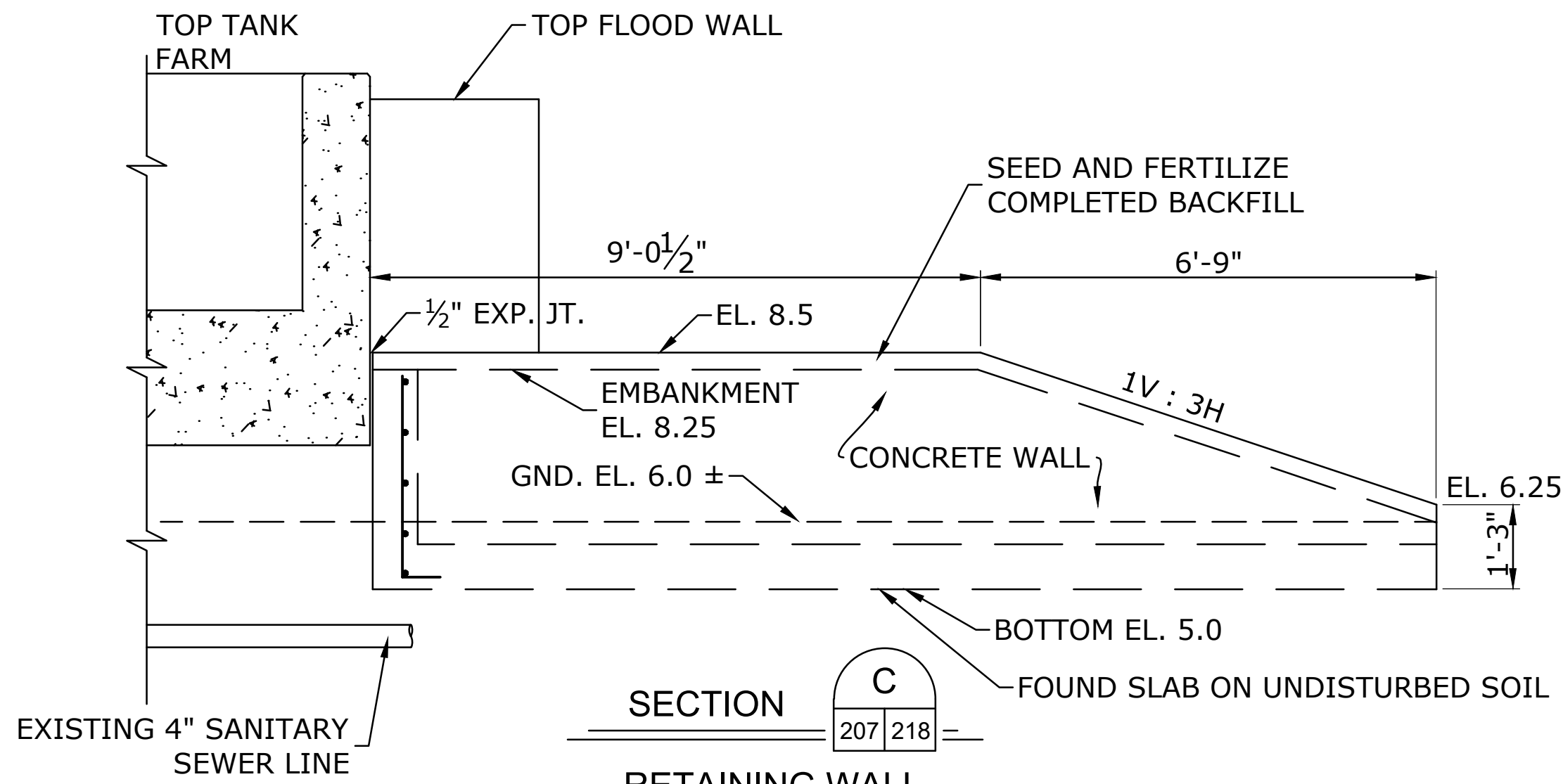
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
TANK FARM STEEL PLATE SOIL BARRIER
SECTION & DETAILS

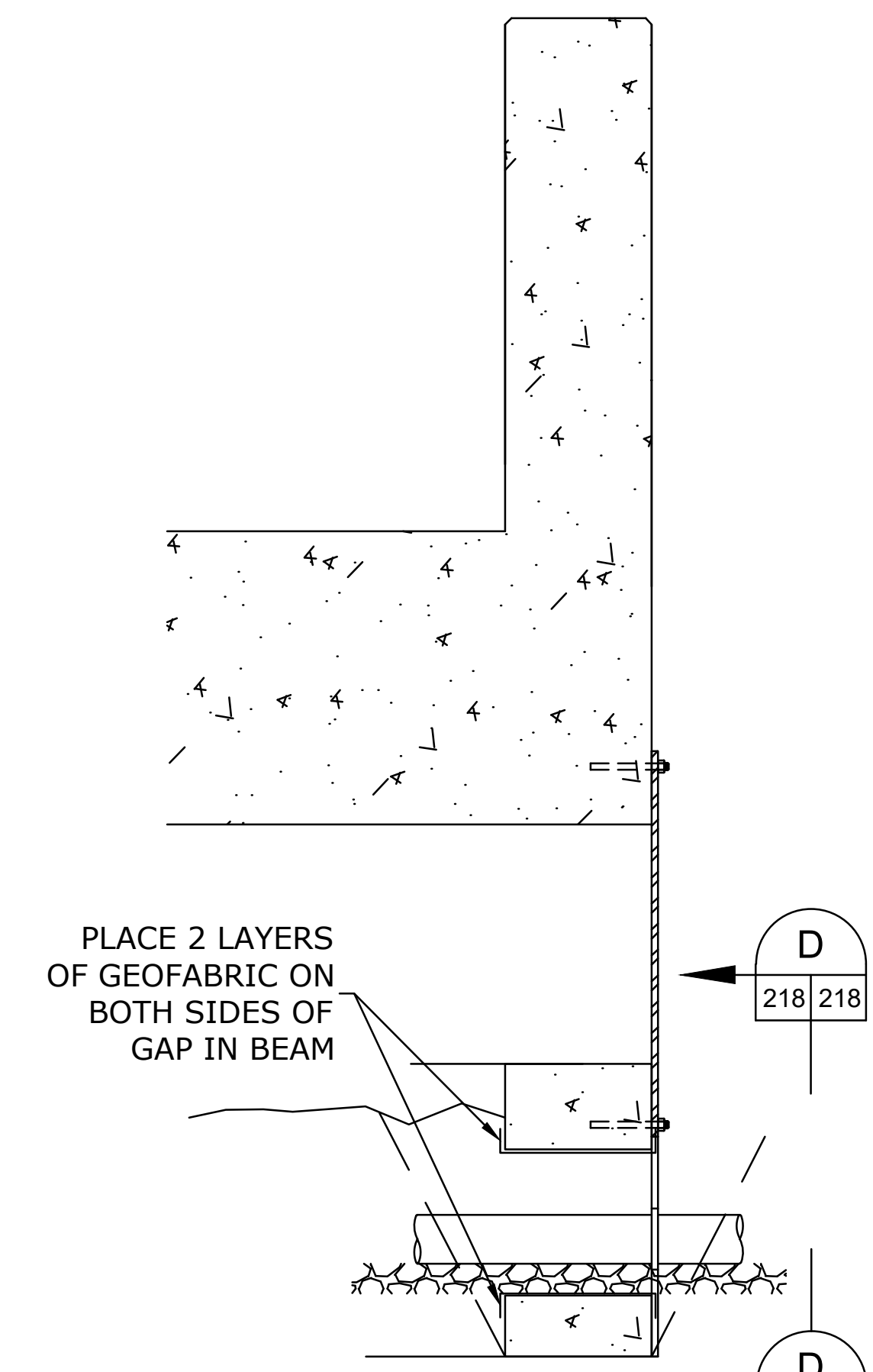
SHEET IDENTIFICATION
217



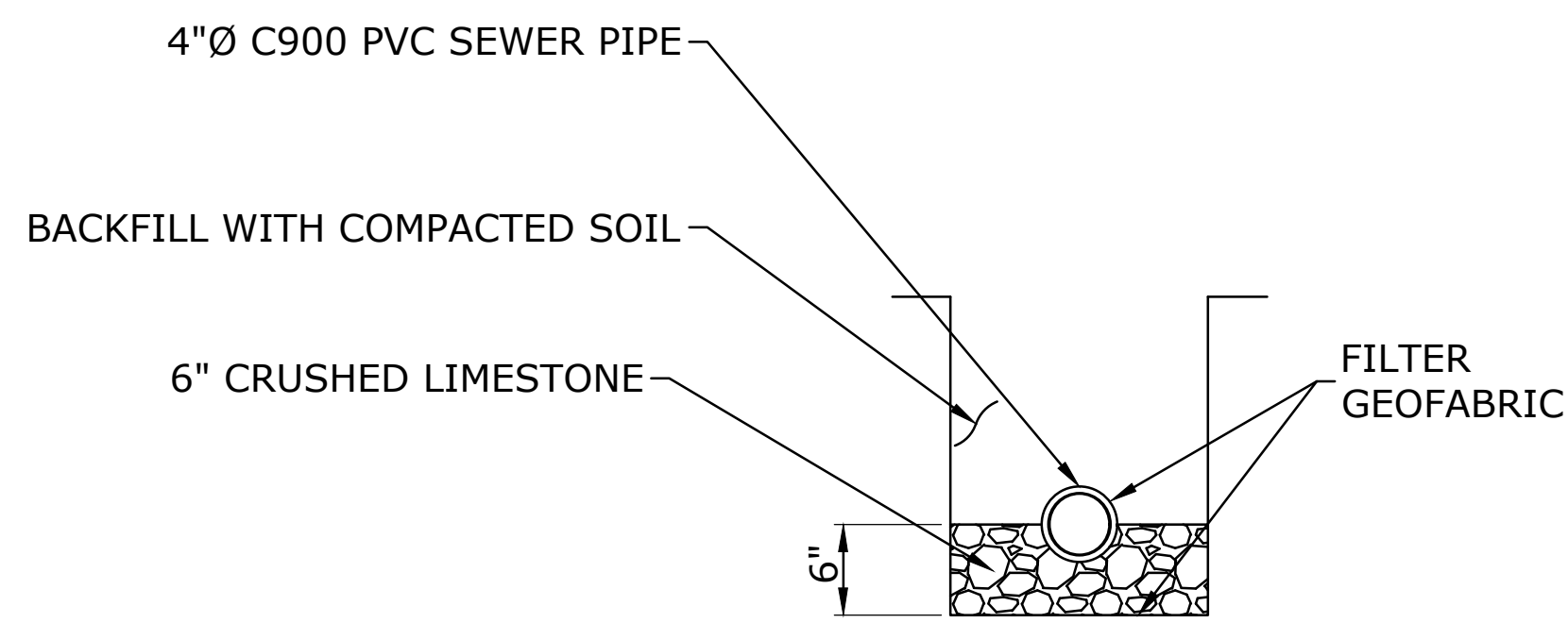
DETAIL 2
RETAINING WALL
SCALE: 1" = 1'-0"



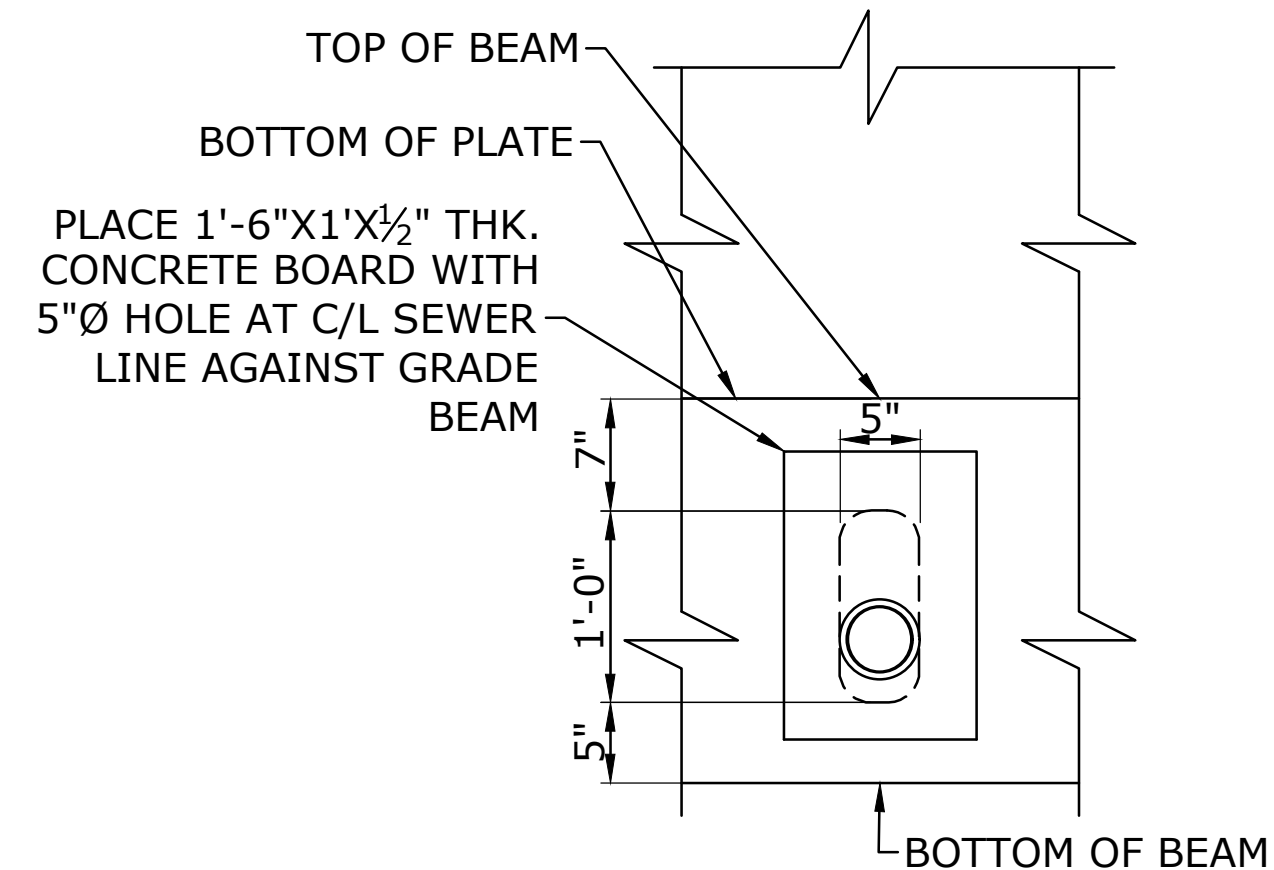
SECTION C
RETAINING WALL
SCALE: 1/2" = 1'-0"



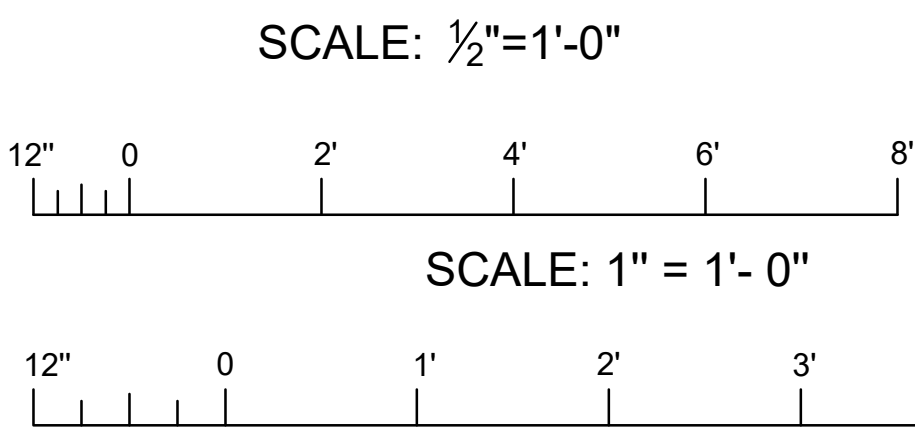
DETAIL 1
GRAVITY SEWER THRU GRADE BEAM
SCALE: 1" = 1'-0"



PIPE BEDDING FOR SANITARY SEWER LINE
FOLLOW LA DOTD STANDARDS
SCALE: 1" = 1'-0"



SECTION D
GRAVITY SEWER THRU GRADE BEAM
SCALE: 1" = 1'-0"

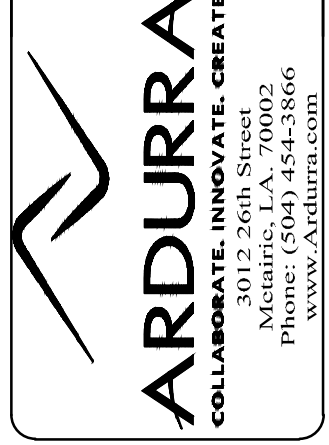


NOTE:
1. ALL ELEVATIONS ARE NAVD 88.



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DATE	BY

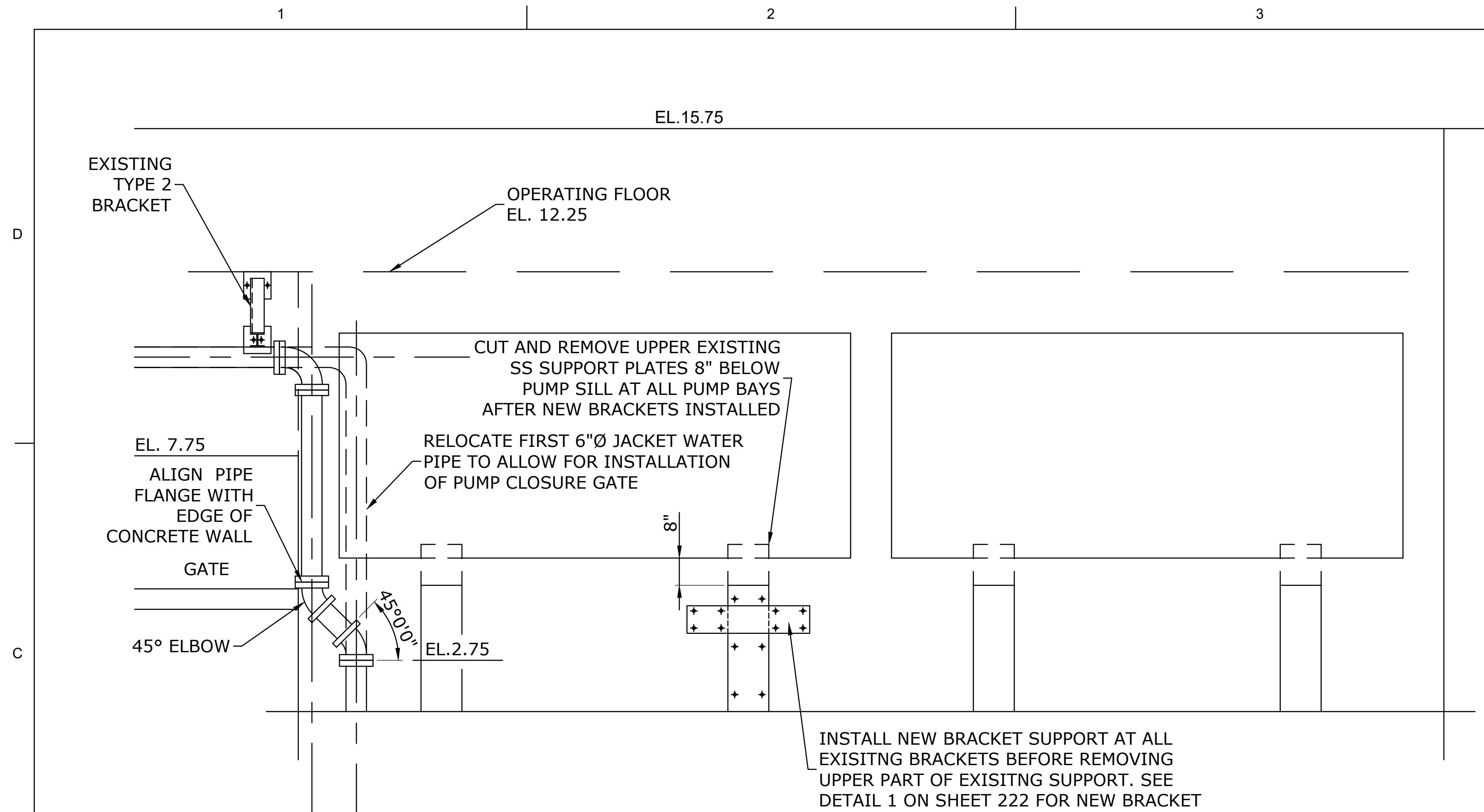
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PROJECT NO.:	DATE:
FILE NAME:	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

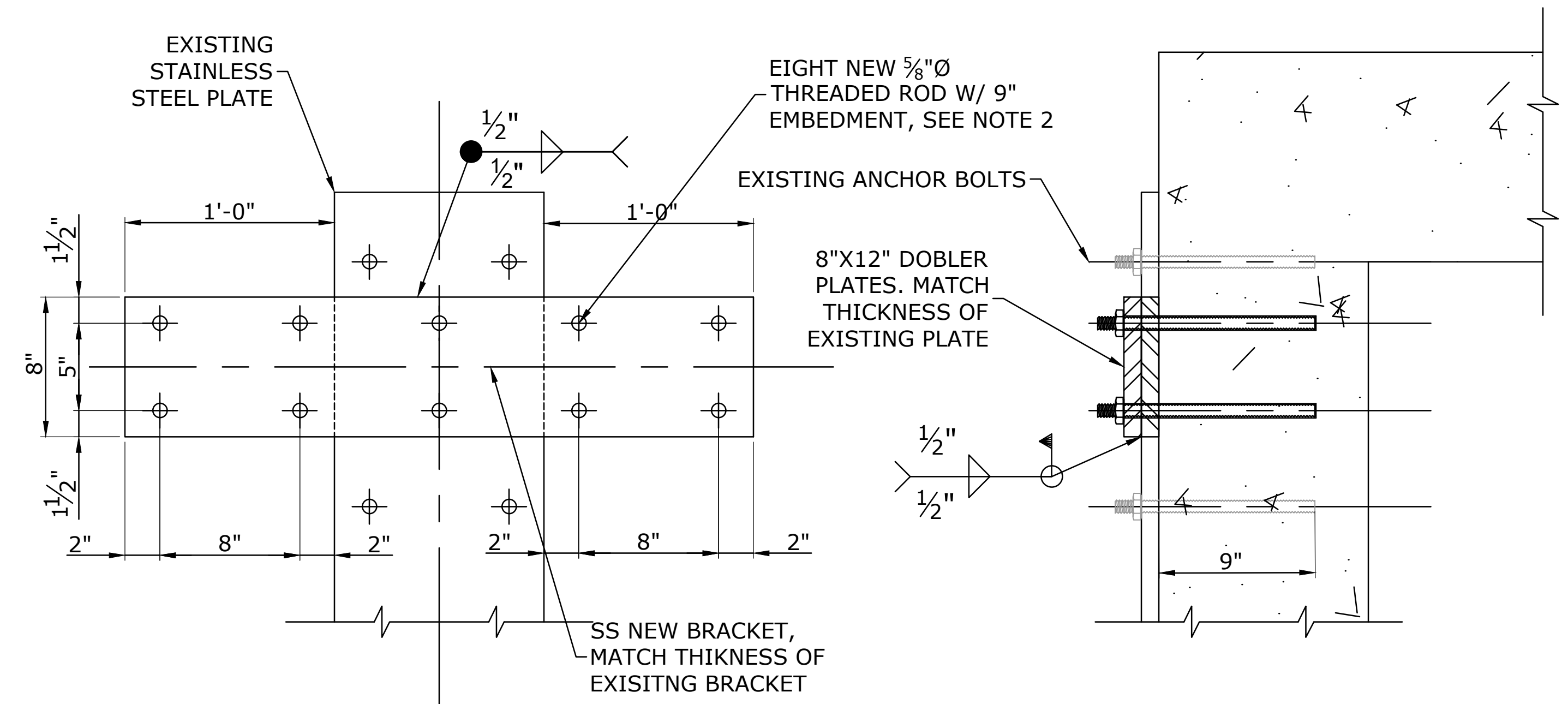
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
SOUTH FLOOD PROTECTION EXTENSION
RETAINING WALL & GRAVITY SEWER DETAILS

SHEET IDENTIFICATION
218



ELEVATION
RELOCATION OF JACKET WATER PIPE

SCALE: 1/2" = 1'-0"
 PUMP BAYS 3, 4, AND 5 SHOW
 PUMP BAYS 1 AND 2 OPPOSITE HAND

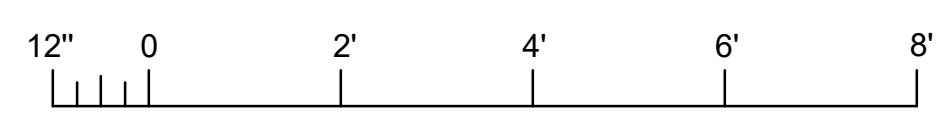
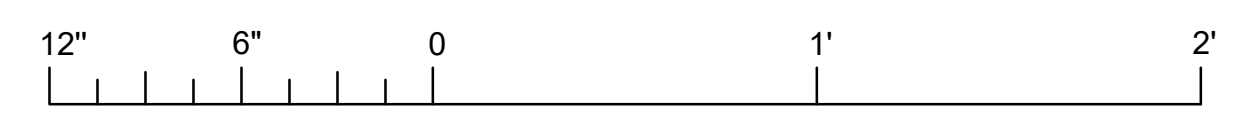


DETAIL 1
NEW SUPPORT BRACKET

SCALE: 2" = 1'-0"

SCALE: 2" = 1'-0"

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



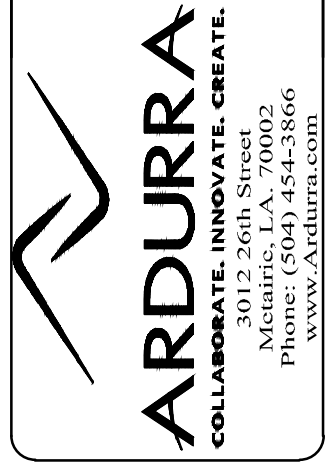
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ISSUED FOR CONSTRUCTION	NO.	DATE	BY

DESIGNED BY: EIM	CHECKED BY: EIM	APPROVED BY: EIM
PROJECT NO. PA-20-06-008	DATE: 06/03/2021	FILE NAME:

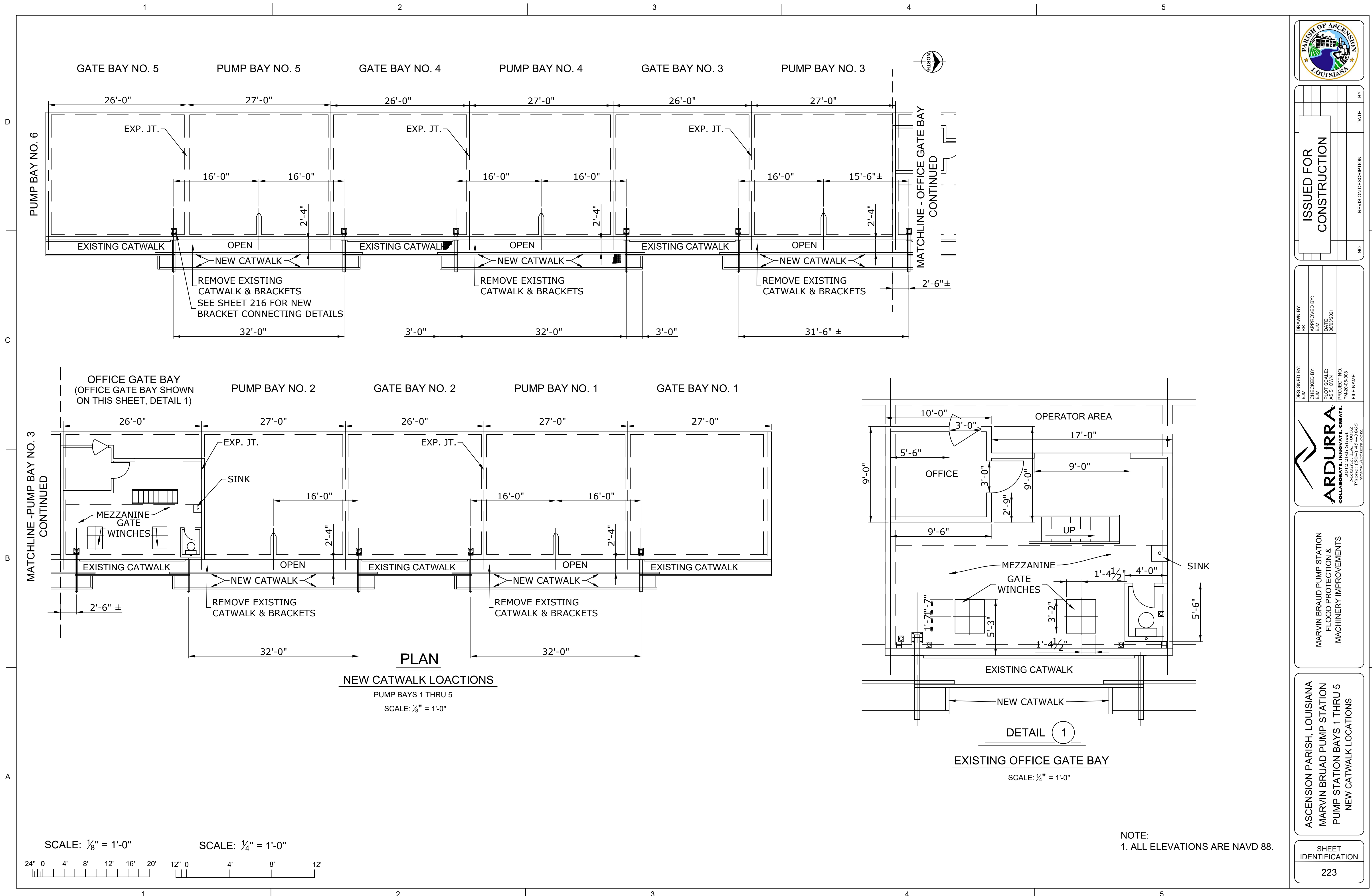


MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 PUMP STATION BAYS 1 THRU 5
 RELOCATION OF JACKET WATER PIPE

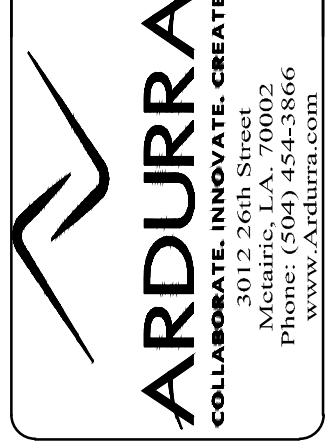
SHEET
 IDENTIFICATION
 222

- NOTE:**
1. ALL ELEVATIONS ARE NAVD 88.
 2. ALL THREADED RODS ARE HILTI HAS-R STAINLESS STEEL ASTM F593 OR APPROVED EQUAL.
 3. ALL BOLTS ARE A36 STEEL A325 316 STAINLESS STEEL.



ISSUED FOR CONSTRUCTION	
NO.	REVISION DESCRIPTION
DATE	BY

DESIGNED BY:	APPROVED BY:
CHECKED BY:	EIM
PLOT SCALE:	DATE:
AE SHOWN	06/03/2021
PROJECT NO.	PA-20-06-008
FILE NAME:	

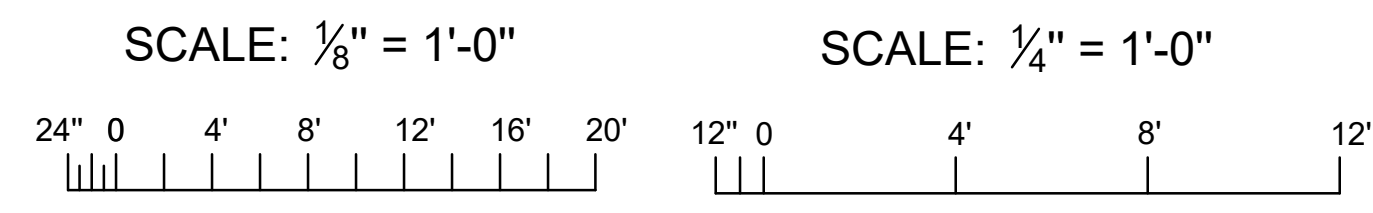


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

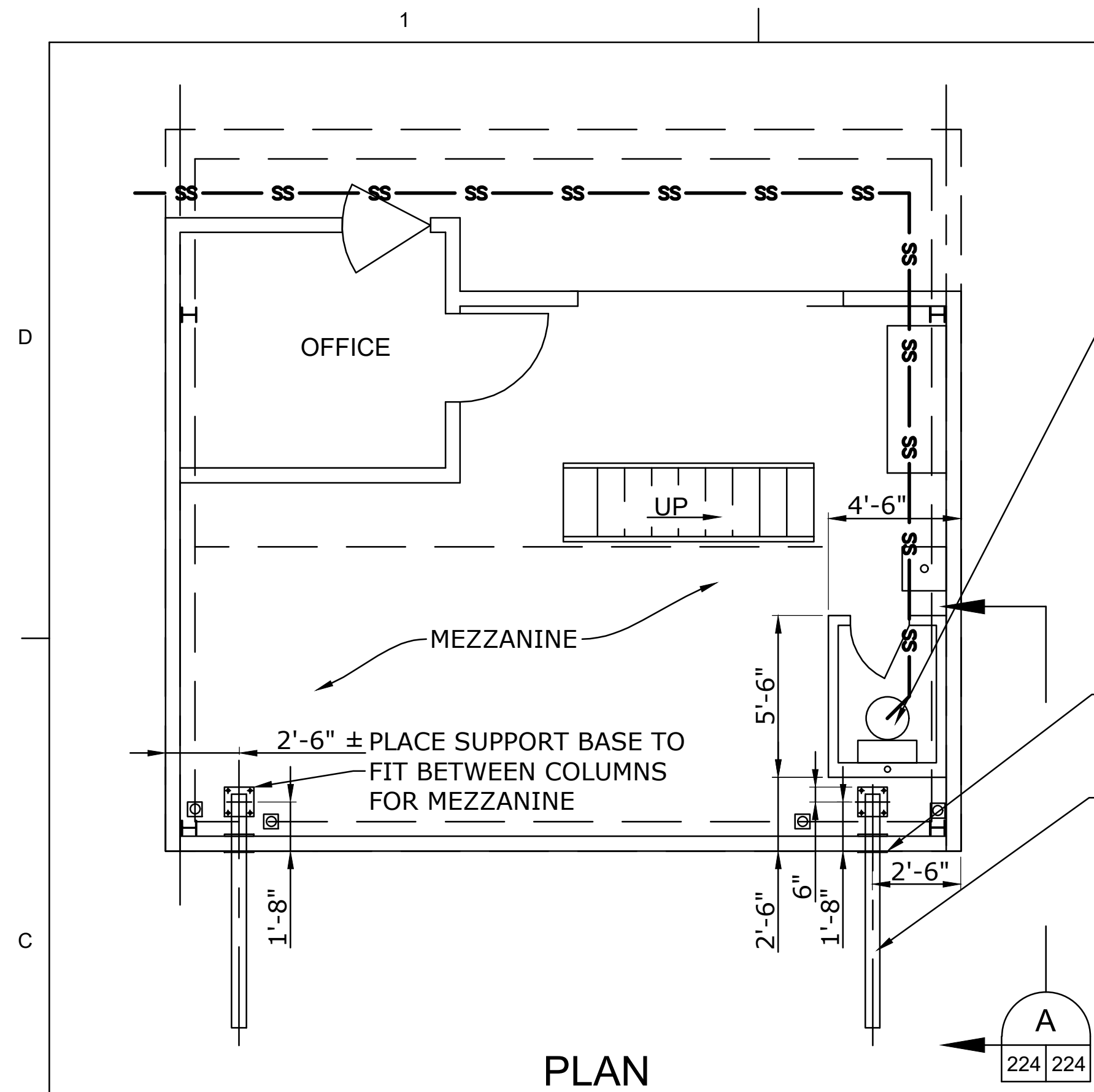
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP STATION BAYS 1 THRU 5
NEW CATWALK LOCATIONS

SHEET IDENTIFICATION
223

NOTE:
1. ALL ELEVATIONS ARE NAVD 88.



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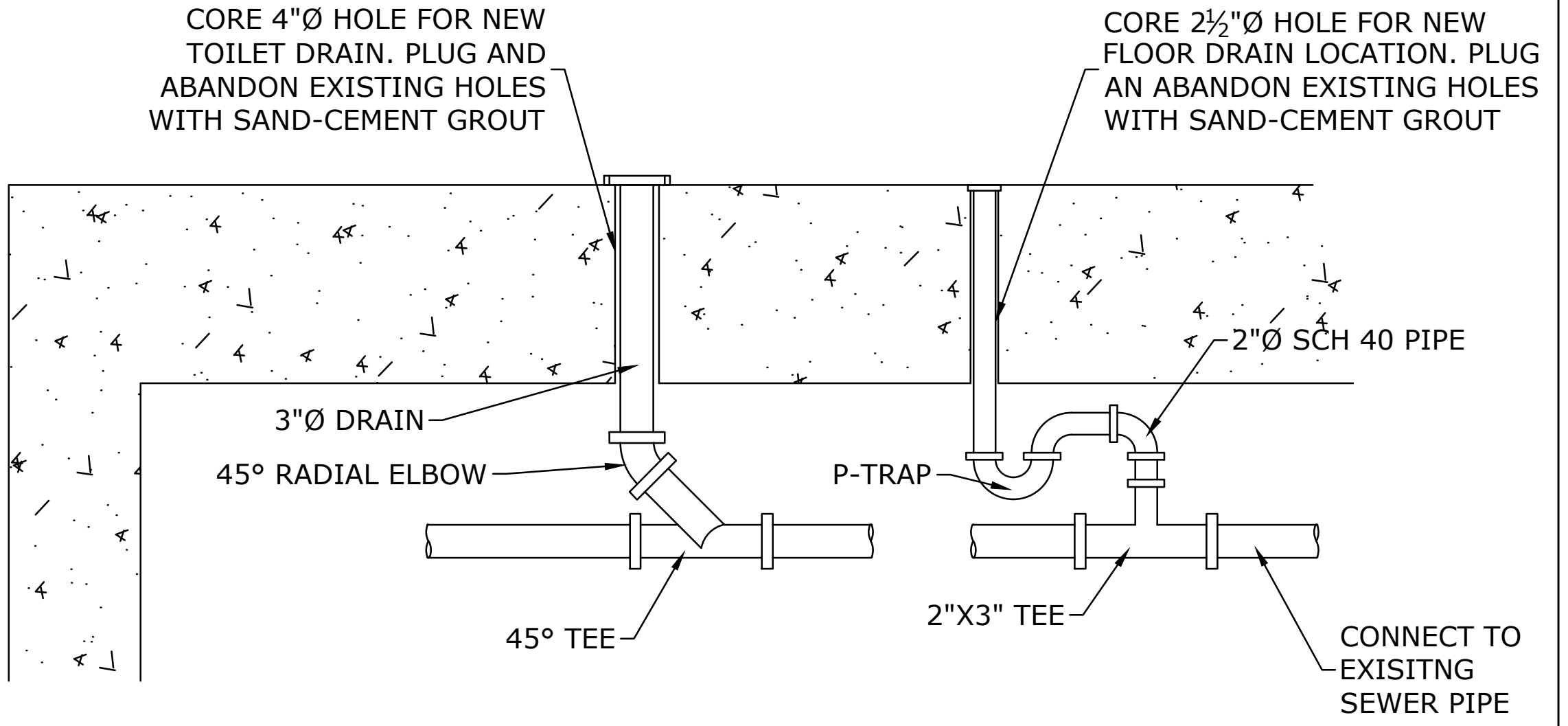


PLAN
OPERATING GATE BAY
WATER CLOSET, AND SINK RELOCATIONS
 SCALE: 1/4" = 1'-0"

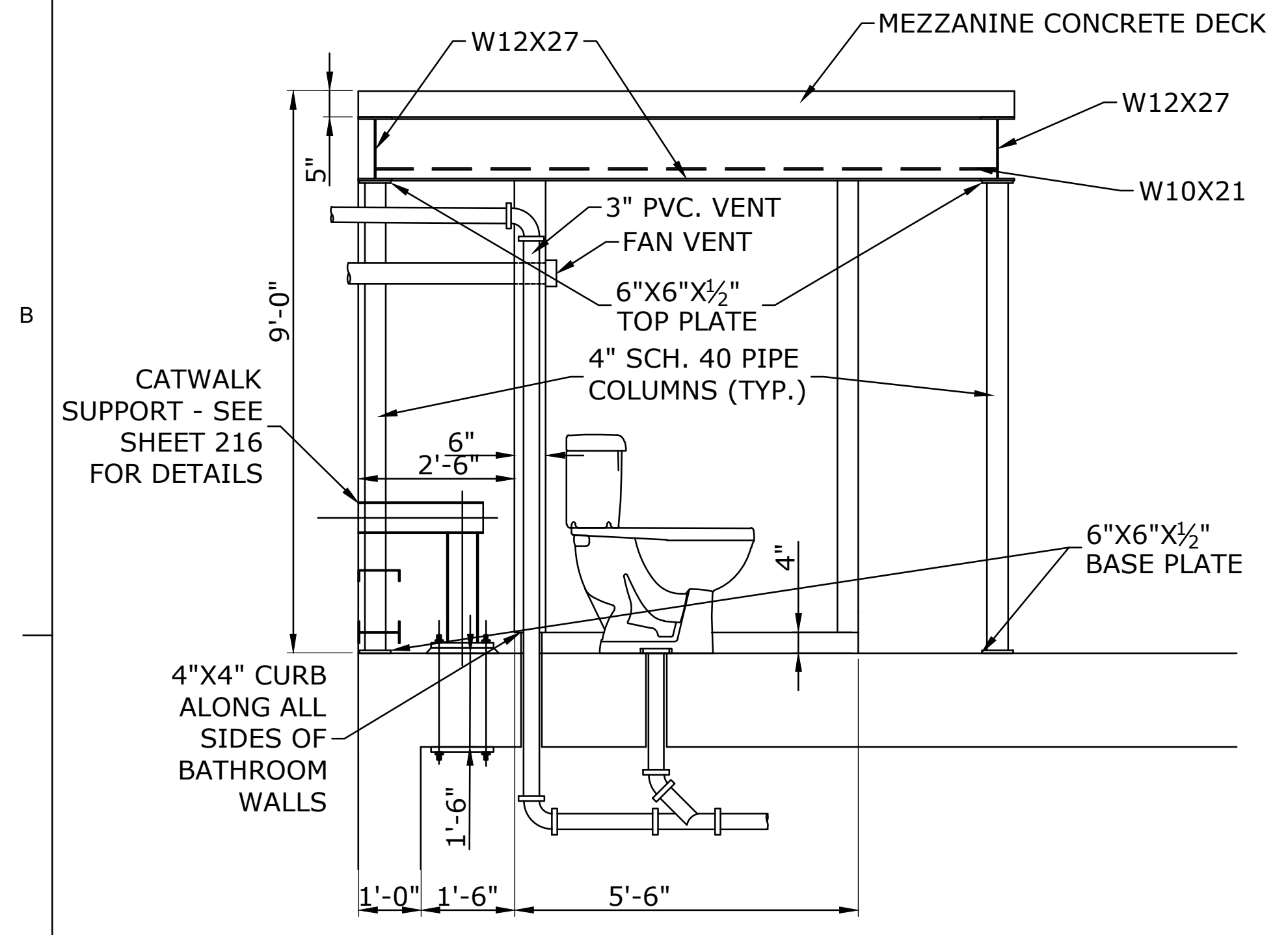
RELOCATE TOILET ROOM. MOVE REAR WALL OF WATER CLOSET TO BE 2'-6" FROM EDGE OF CONCRETE FLOOR. SEE SECTION A ON THIS SHEET FOR DETAILS. RELOCATION INCLUDES:

1. MODIFYING 4" HIGH CONCRETE CURBING.
2. DRILL NEW HOLE THRU FLOOR FOR TOILET DRAIN, MATCH EXISTING SEWER AND CONNECT TO EXISTING SEWER PIPE BELOW SLAB.
3. IF SINK IS MOVED, REROUT WATER SUPPLY AND DRAIN LINES TO CONNECT TO EXISTING LINES ABOVE FLOOR.

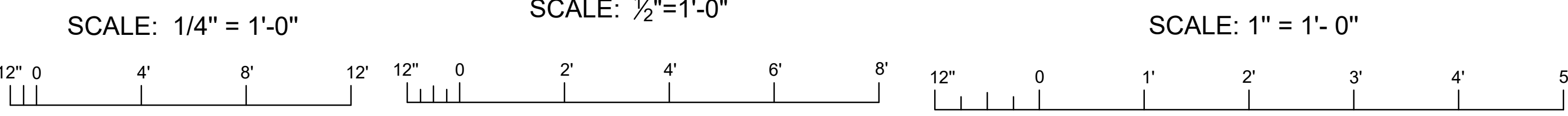
CUT 8"X8" SQUARE OPENING IN BUILDING METAL SIDING AND MODIFY HORIZONTAL SIDING GIRTS AS REQUIRED TO PASS SUPPORT BEAM THRU WALL.



NEW PLUMBING DETAIL
 SCALE: 1" = 1'-0"



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



- NOTES ON CONCRETE CORING:**
1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
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NOTE:
 1. ALL ELEVATIONS ARE NAVD 88.

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 PUMP STATION OFFICE GATE BAY
 DETAILS

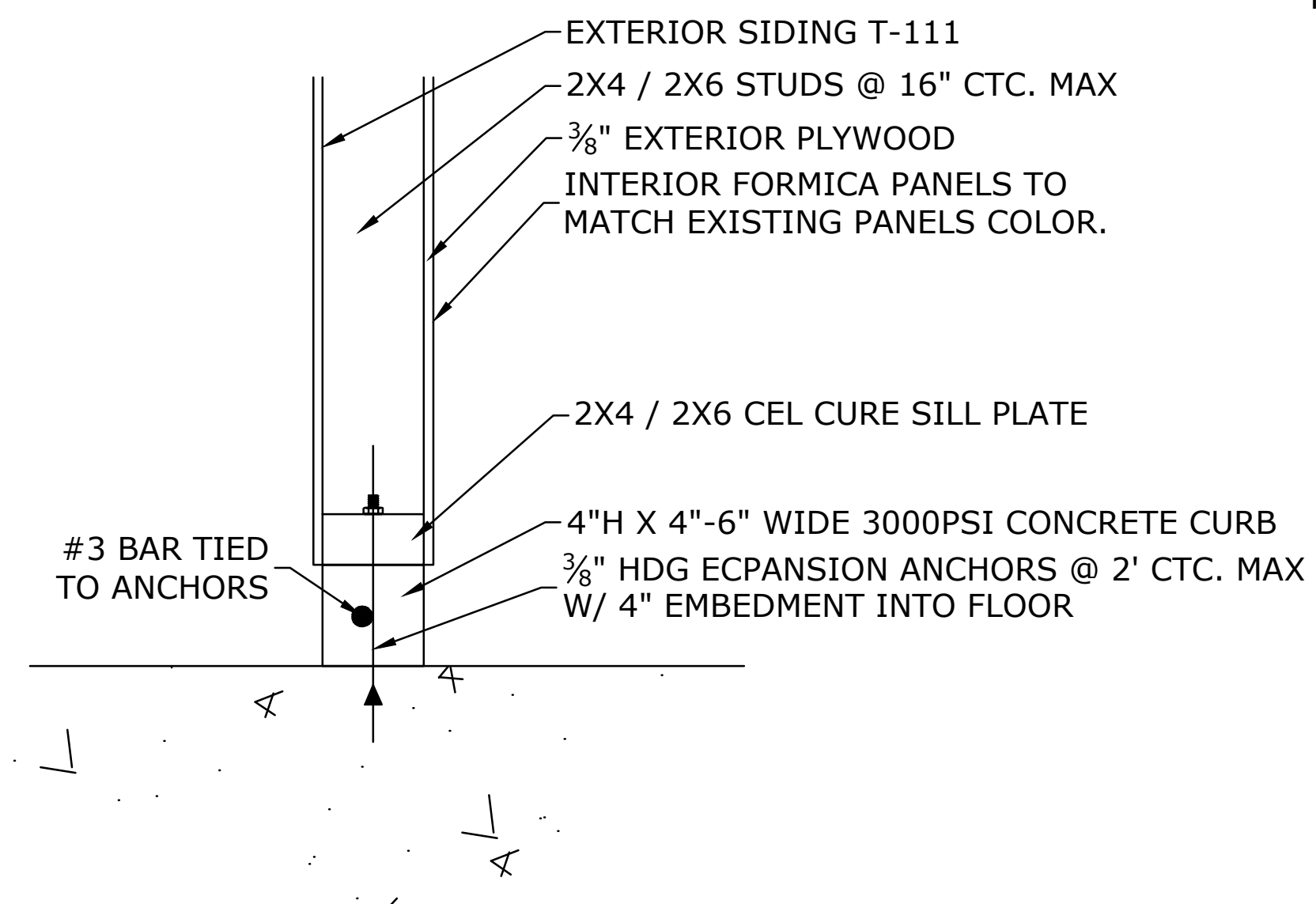
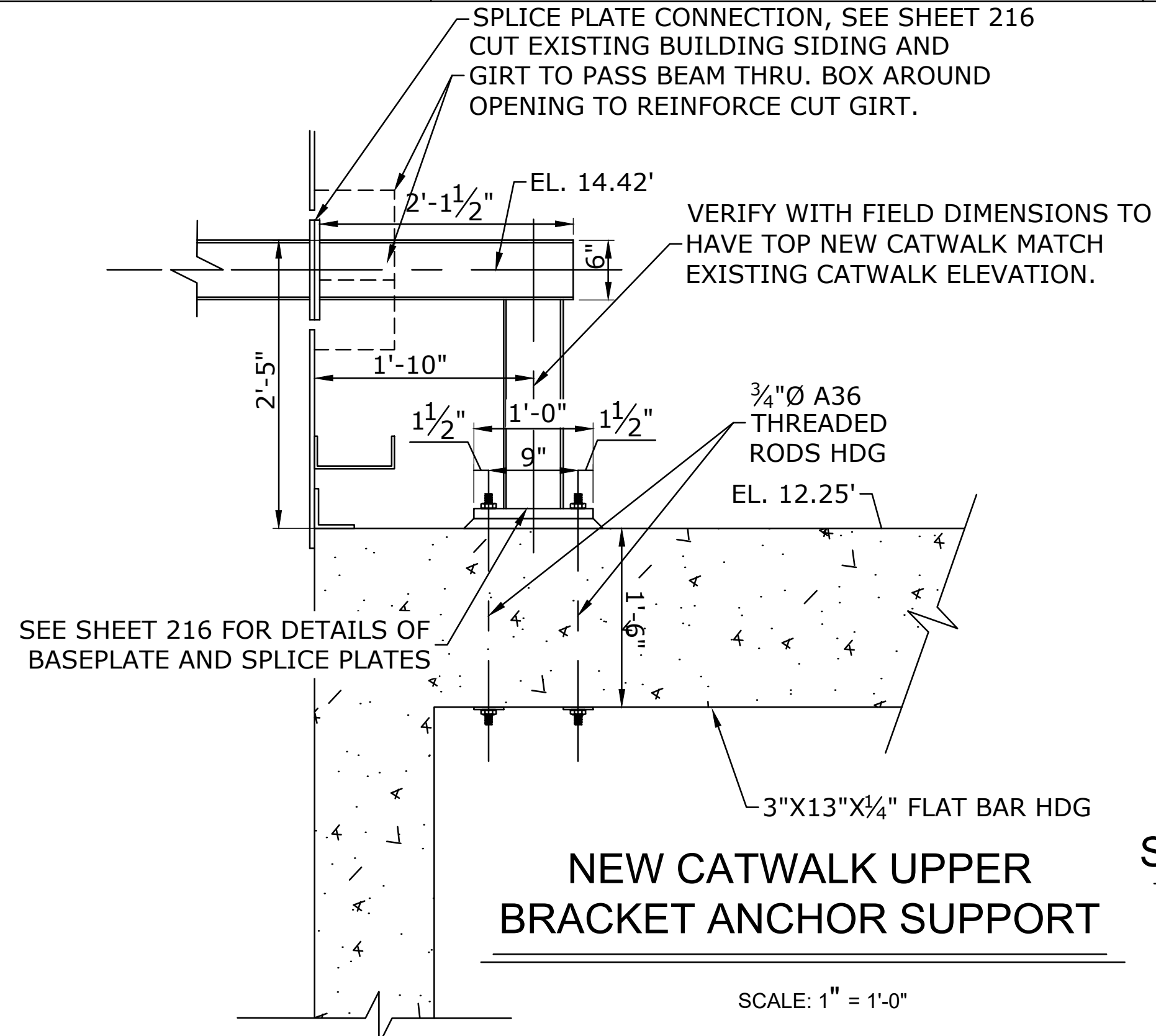
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DRAWN BY: EJM	DATE: 06/03/2021
DESIGNED BY: EJM	PROJECT NO: PM-20-06-008
CHECKED BY: EJM	FILE NAME:

ARDURRA
 COLLABORATIVE. INNOVATIVE. CREATE.
 3012 26th Street
 Metairie, LA 70002
 P: 504.885.1000
 WWW.ARDURRA.COM

SHEET IDENTIFICATION

224

1 2 3 4 5

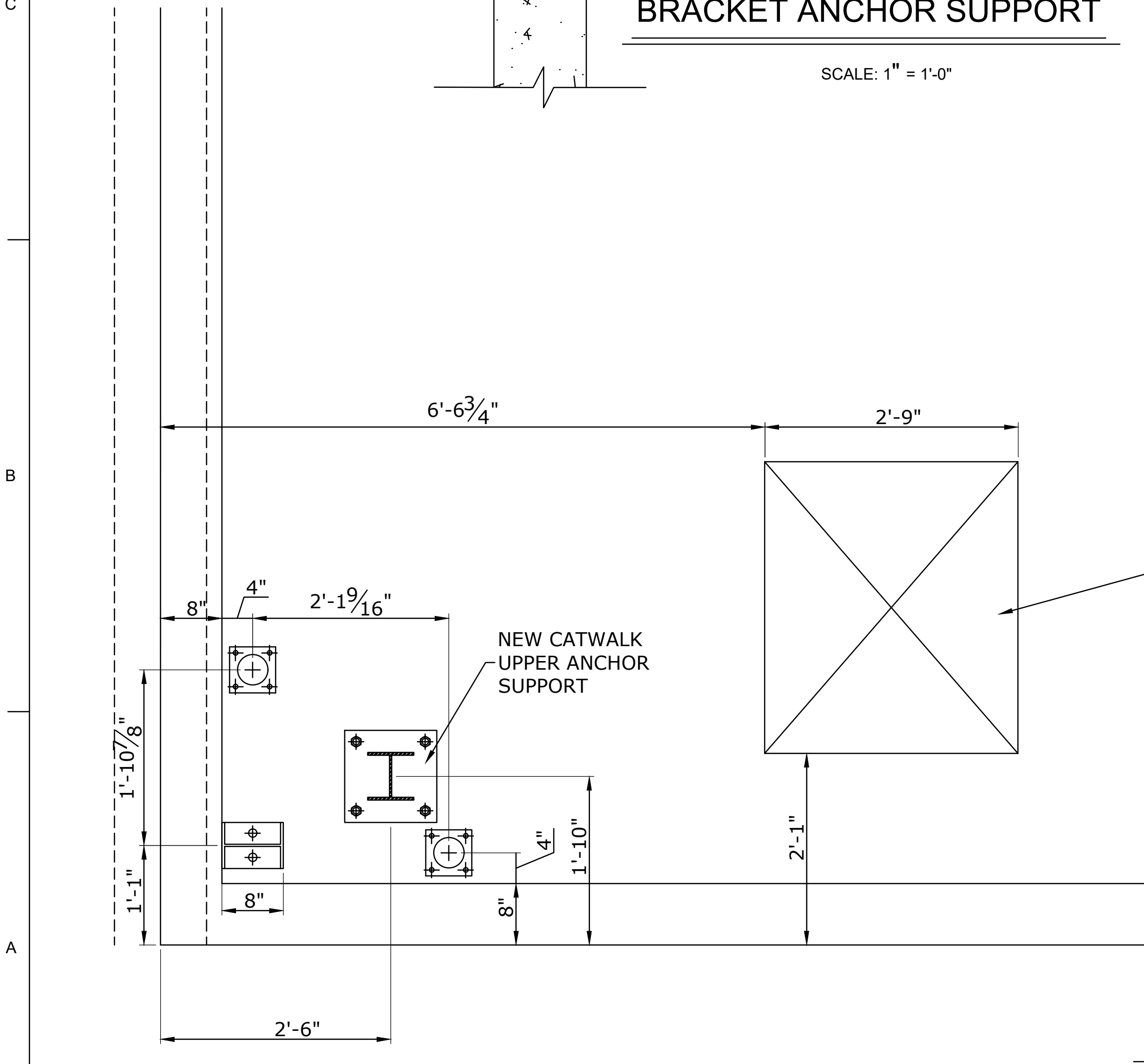


STRUCTURAL SECTION WATER CLOSET

SCALE: 2" = 1'-0"

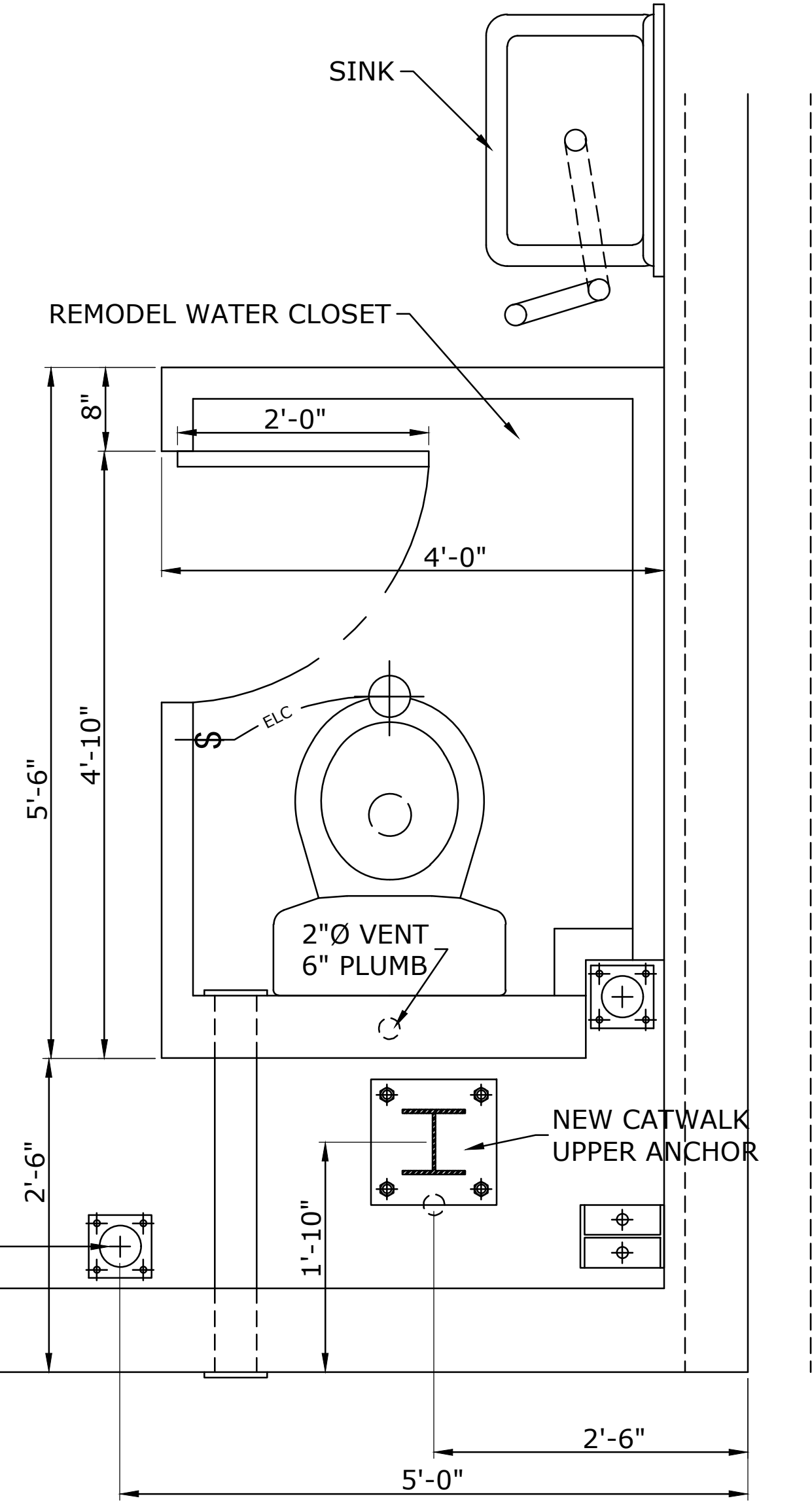
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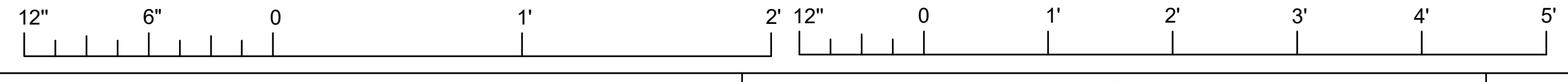


**PLAN
OPERATING GATE BAY
WATER CLOSET, AND SINK RELOCATIONS**

SCALE: 1" = 1'-0"

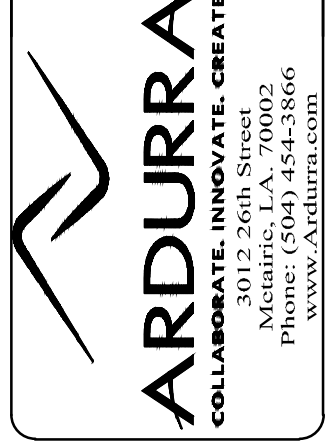


NOTE:
1. ALL ELEVATIONS ARE NAVD 88.



ISSUED FOR CONSTRUCTION	DATE	BY
REVISION DESCRIPTION	NO.	

DESIGNED BY: EJM	CHECKED BY: EJM	APPROVED BY: EJM
DATE: 06/03/2021	PROJECT NO. PA-20-06-008	FILE NAME

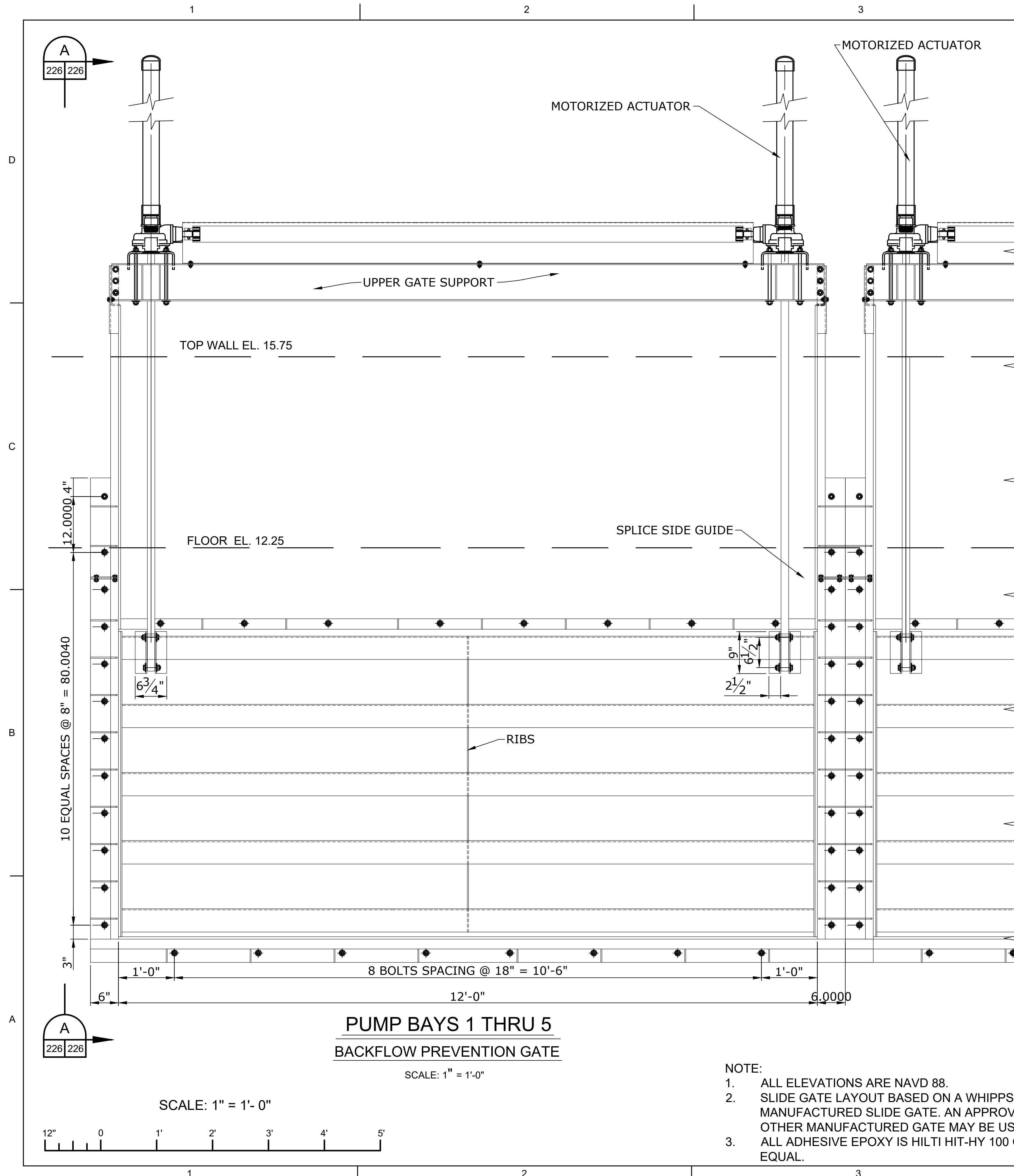


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

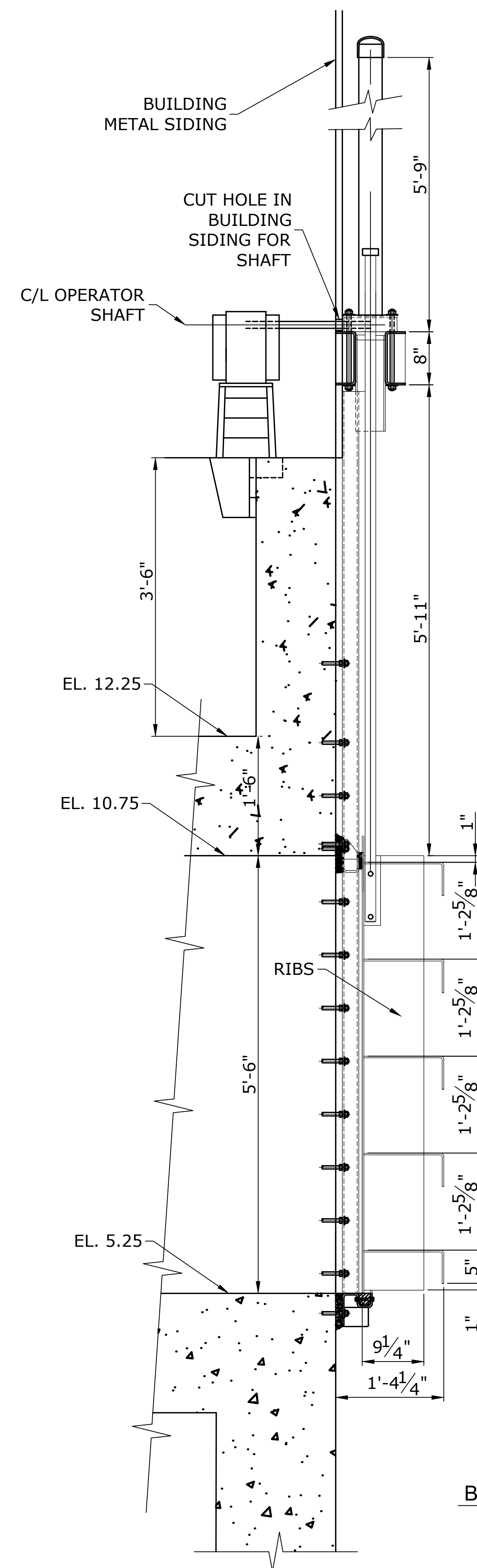
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP STATION WATER CLOSET MODIFICATIONS
AND UPPER CATWALK BRACKET ANCHOR

SHEET
IDENTIFICATION
225

S:\CURRENT\2000\2018-1687 ASCENSION PARISH\Marvin Braud\MARVIN BRAUD PS-STRUCTURE.dwg



- NOTE:**
1. ALL ELEVATIONS ARE NAVD 88.
 2. SLIDE GATE LAYOUT BASED ON A WHIPPS MANUFACTURED SLIDE GATE. AN APPROVED EQUAL OTHER MANUFACTURED GATE MAY BE USED.
 3. ALL ADHESIVE EPOXY IS HILTI HIT-HY 100 OR APPROVED EQUAL.



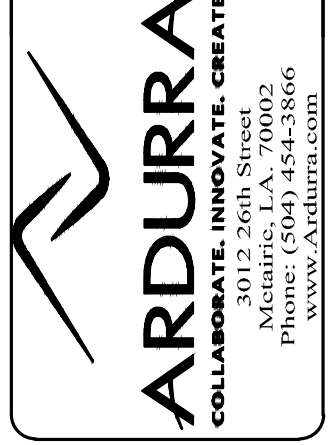
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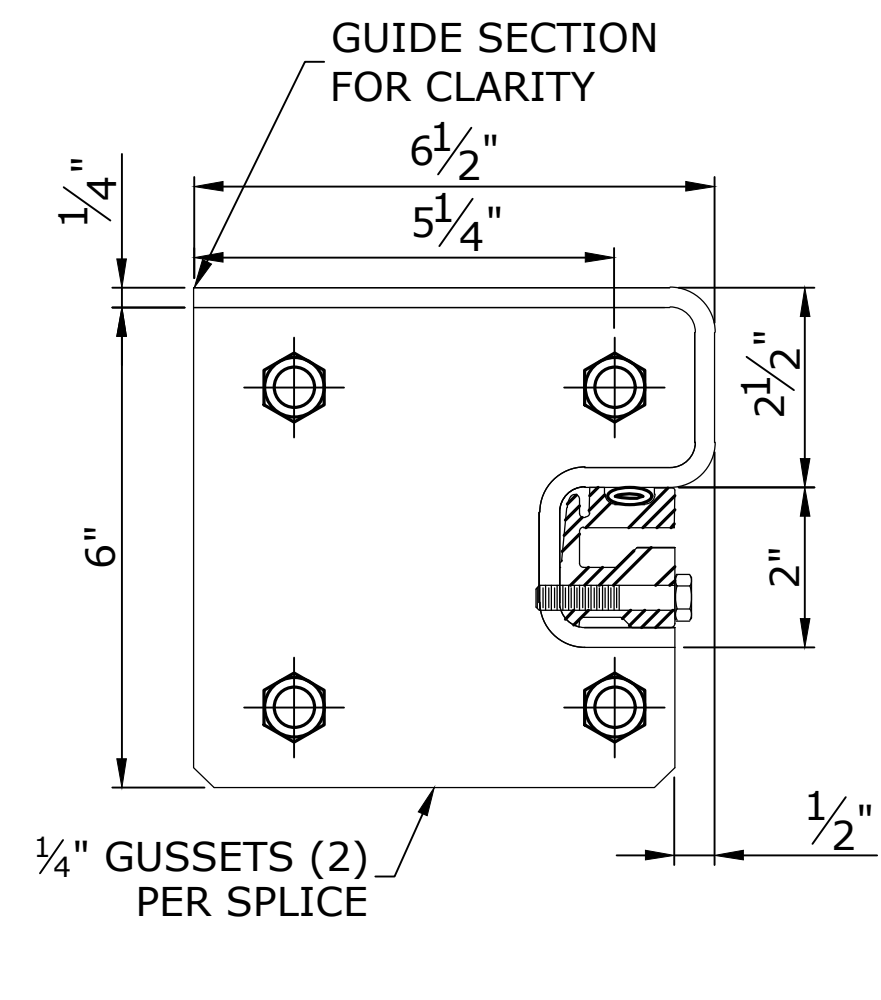
DESIGNED BY:	CHECKED BY:	DATE:
DRAWN BY:	APPROVED BY:	DATE:
PROJECT NO. PA-20-06-088	FILE NAME:	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

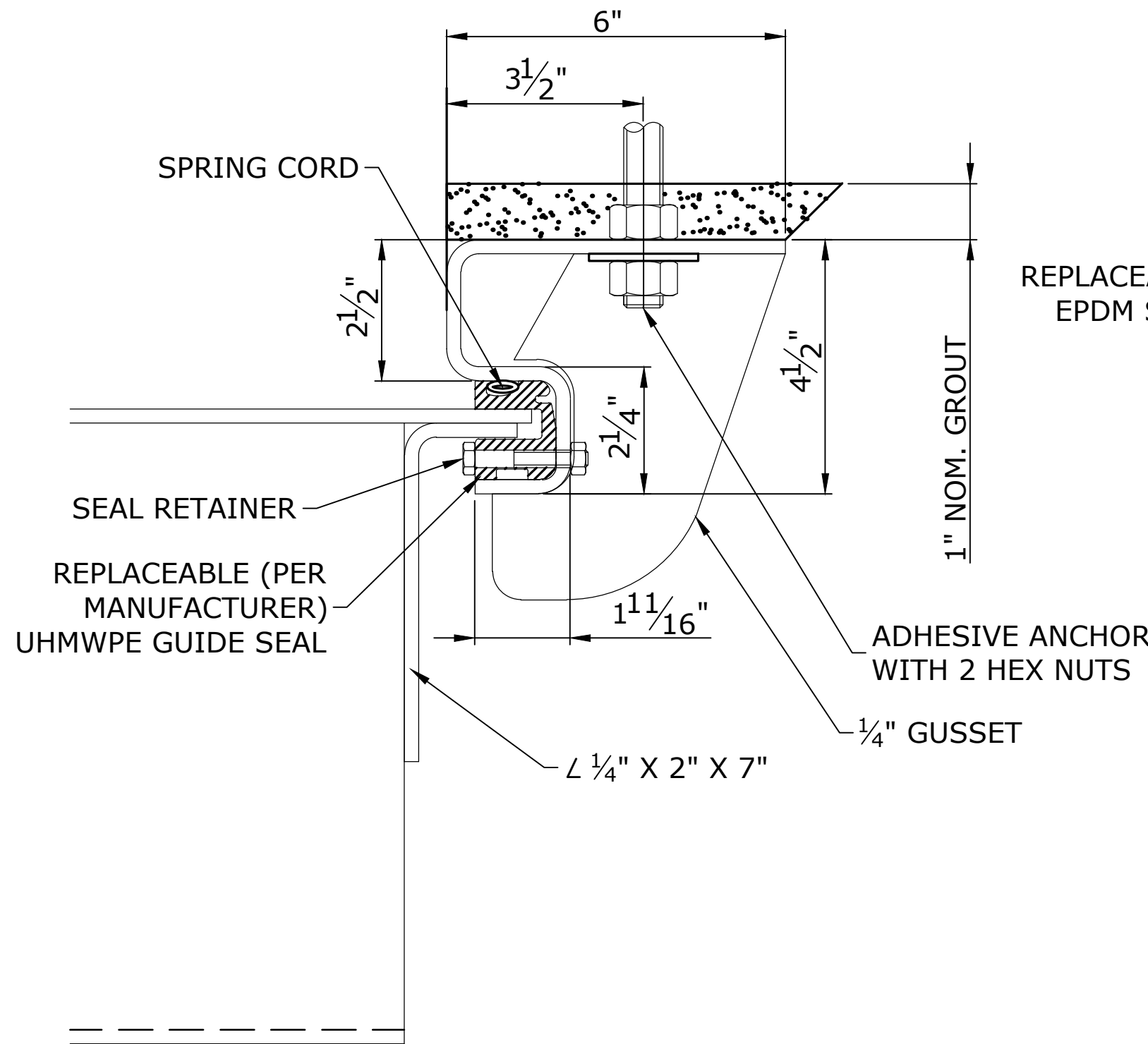
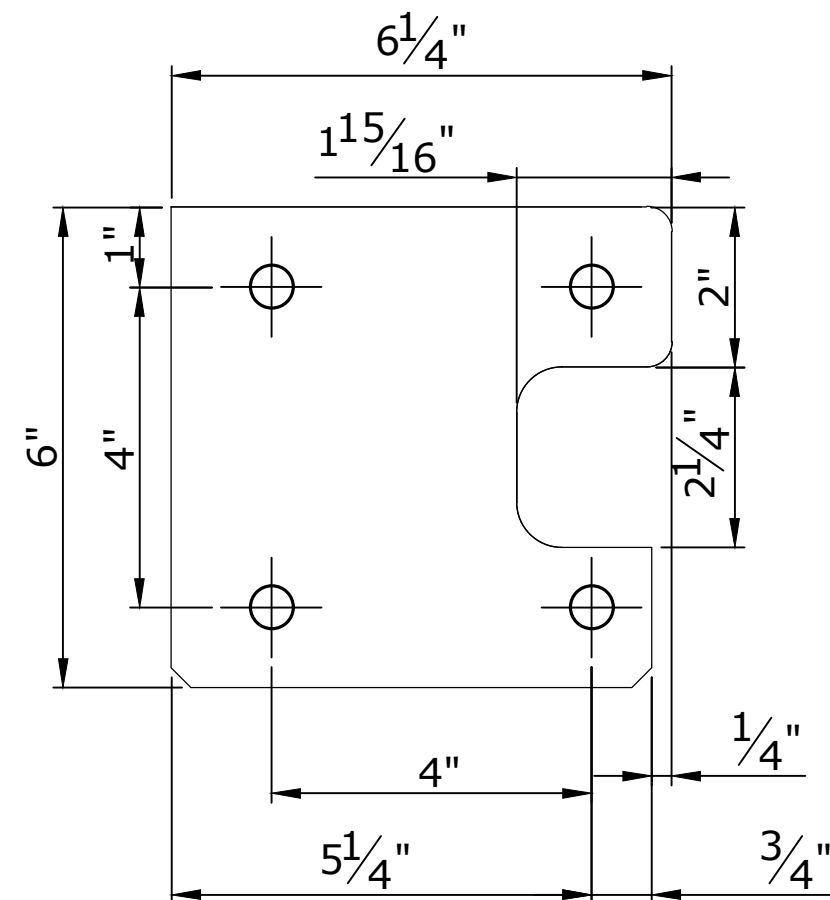
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP STATION BAYS 1 THRU 5
BACK FLOW PREVENTION GATE DETAILS

SHEET IDENTIFICATION
226



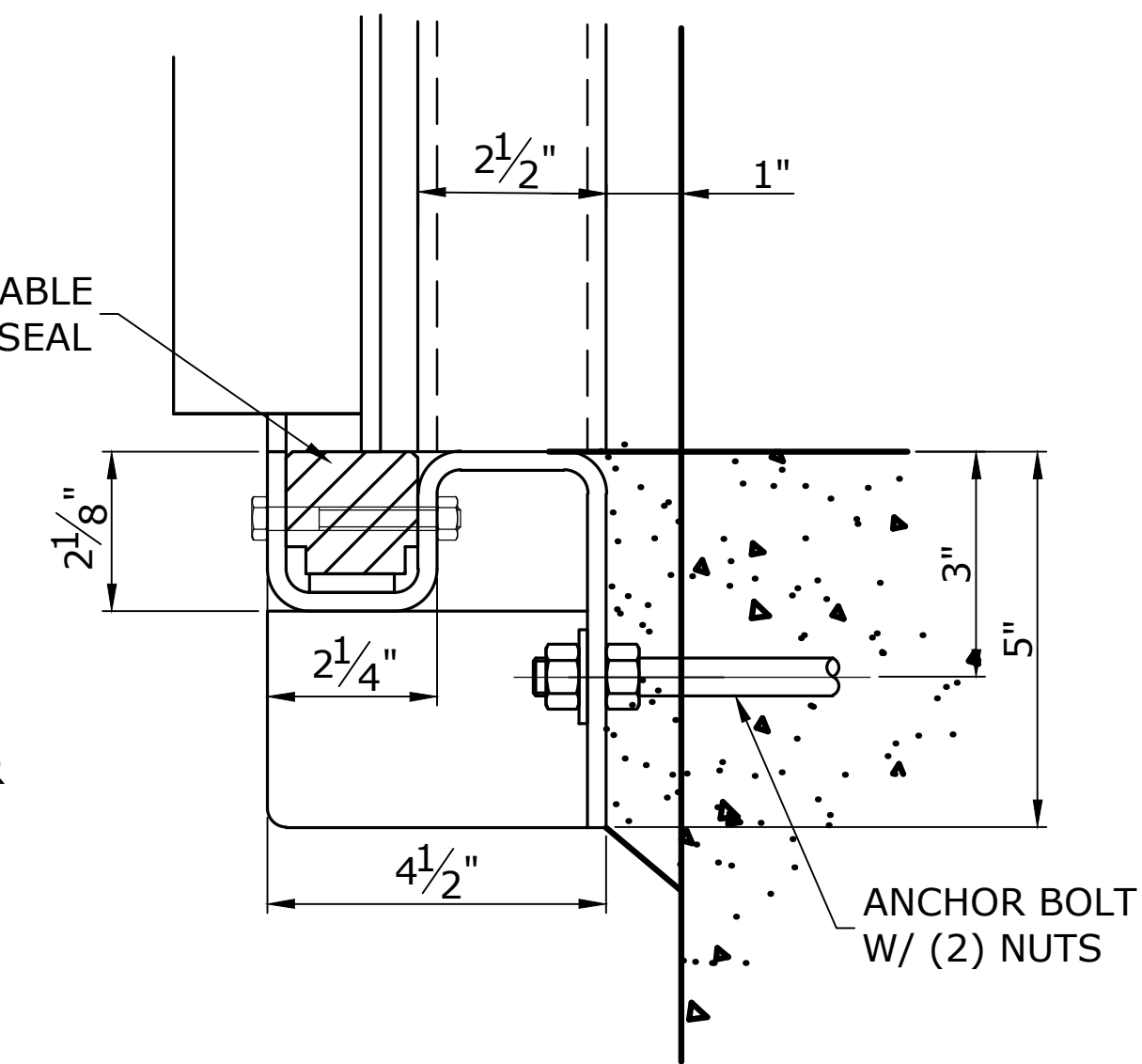
WATERJET PROFILE
(PER MANUFACTURER DIMENSIONS)

SCALE: 5" = 1'-0"



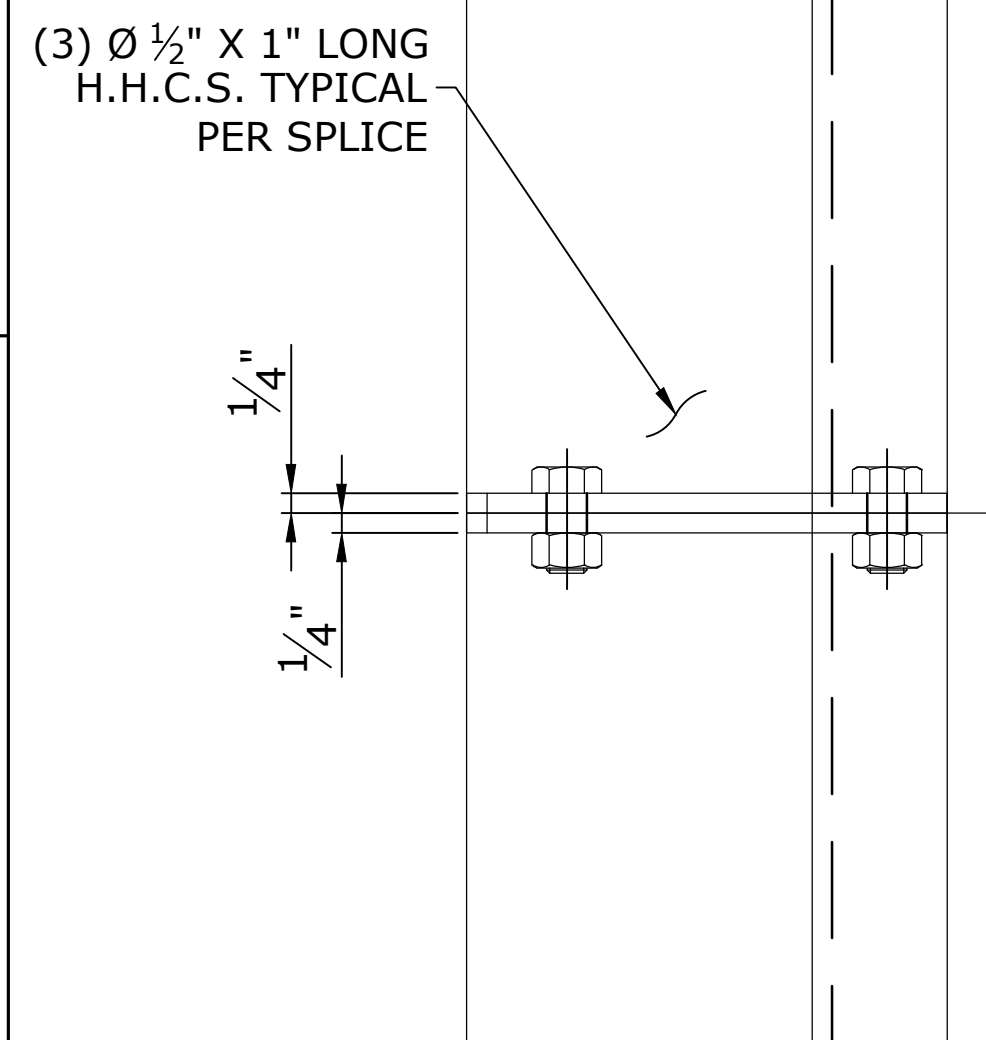
VERTICAL GUIDE SECTION

SCALE: 5" = 1'-0"



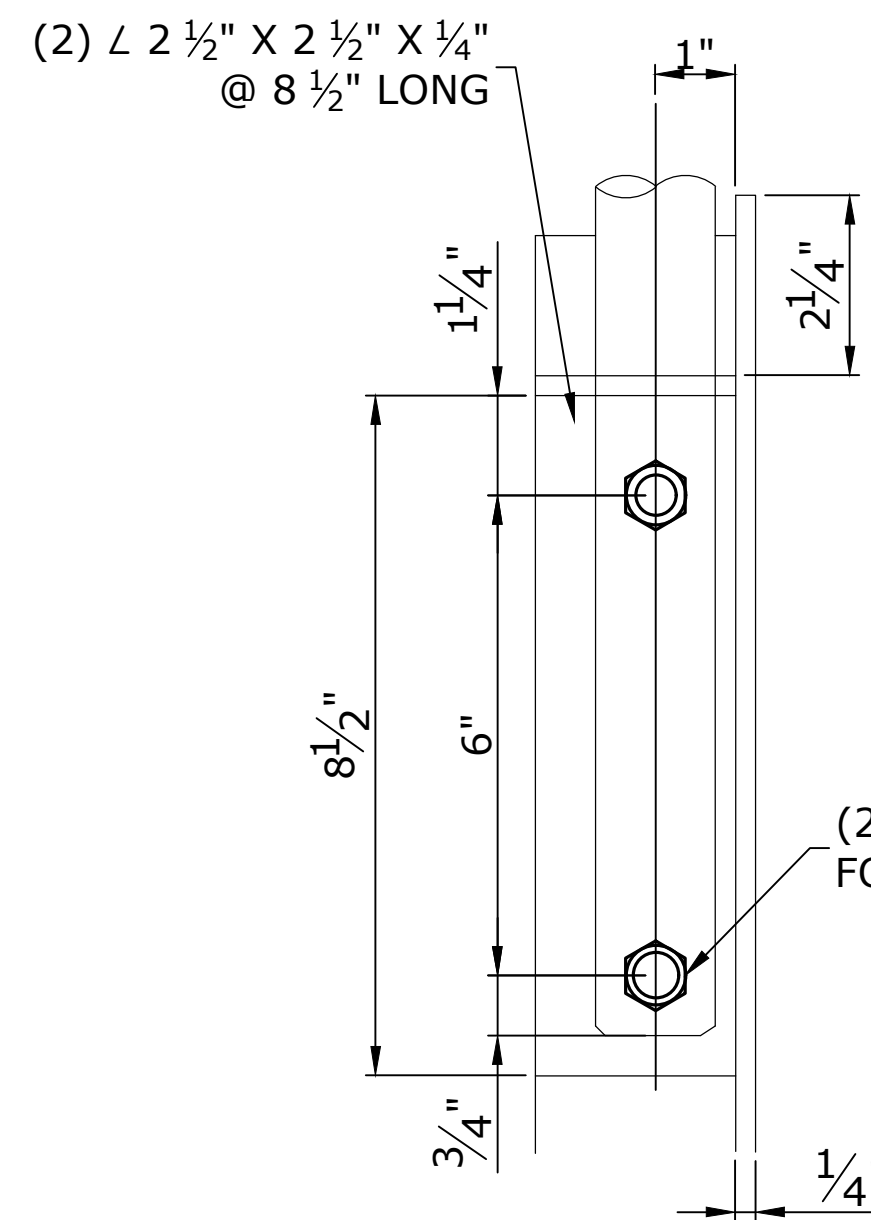
INVERT SECTION

SCALE: 5" = 1'-0"



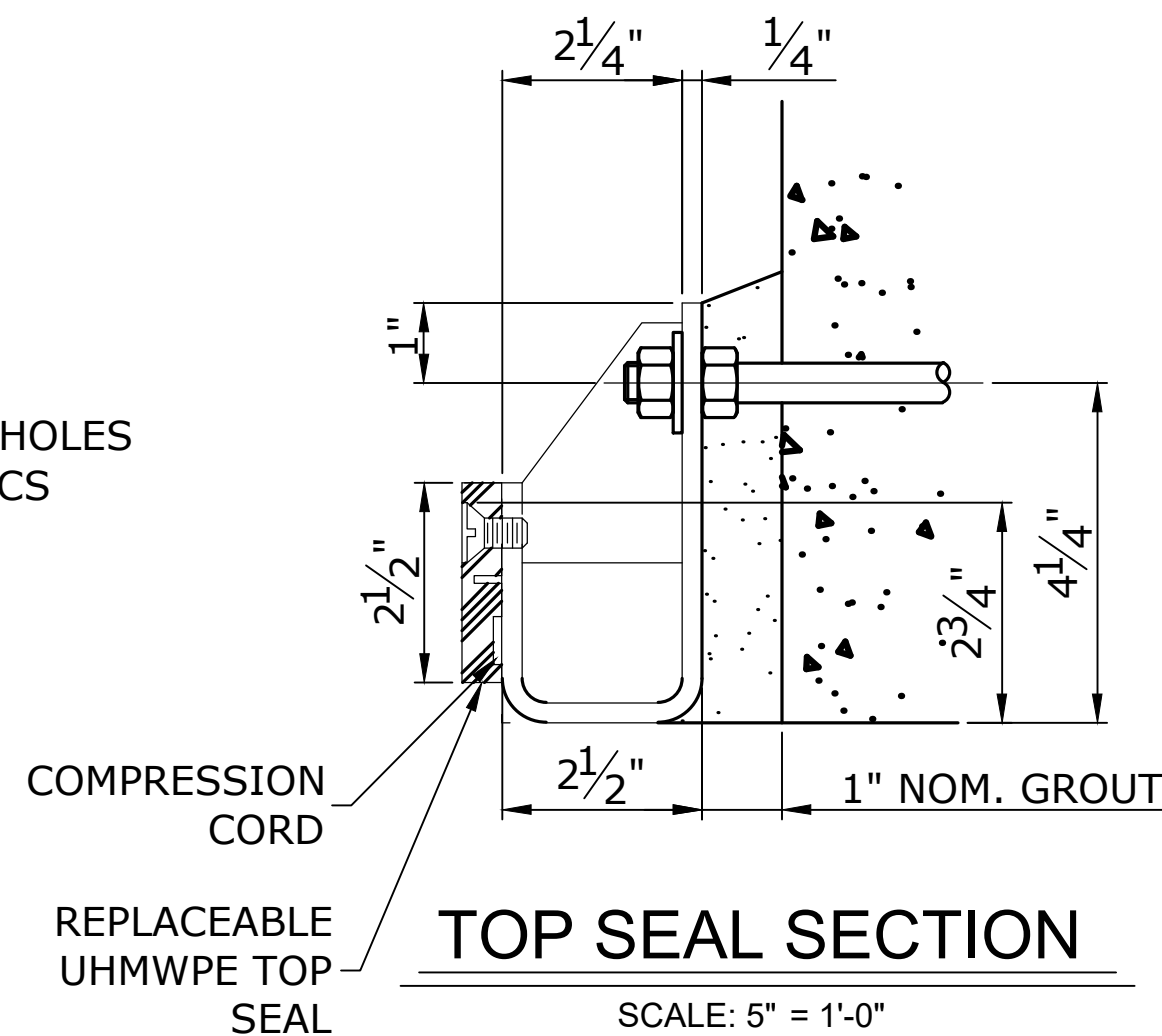
SPLICE DETAIL

SCALE: 5" = 1'-0"



STEM CONNECTOR

SCALE: 5" = 1'-0"

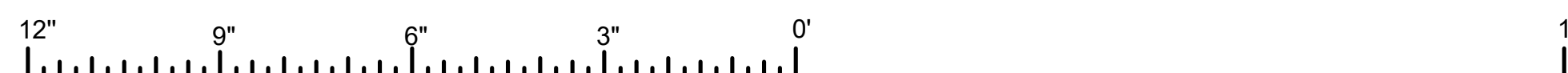


TOP SEAL SECTION

SCALE: 5" = 1'-0"

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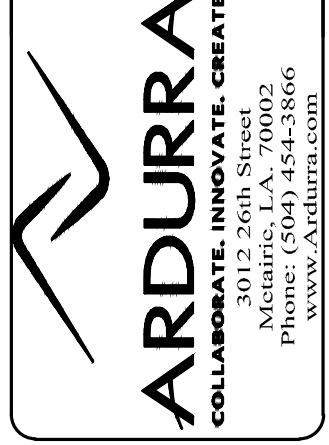


SCALE: 5" = 1'-0"



NO.	REVISION DESCRIPTION	DATE	BY

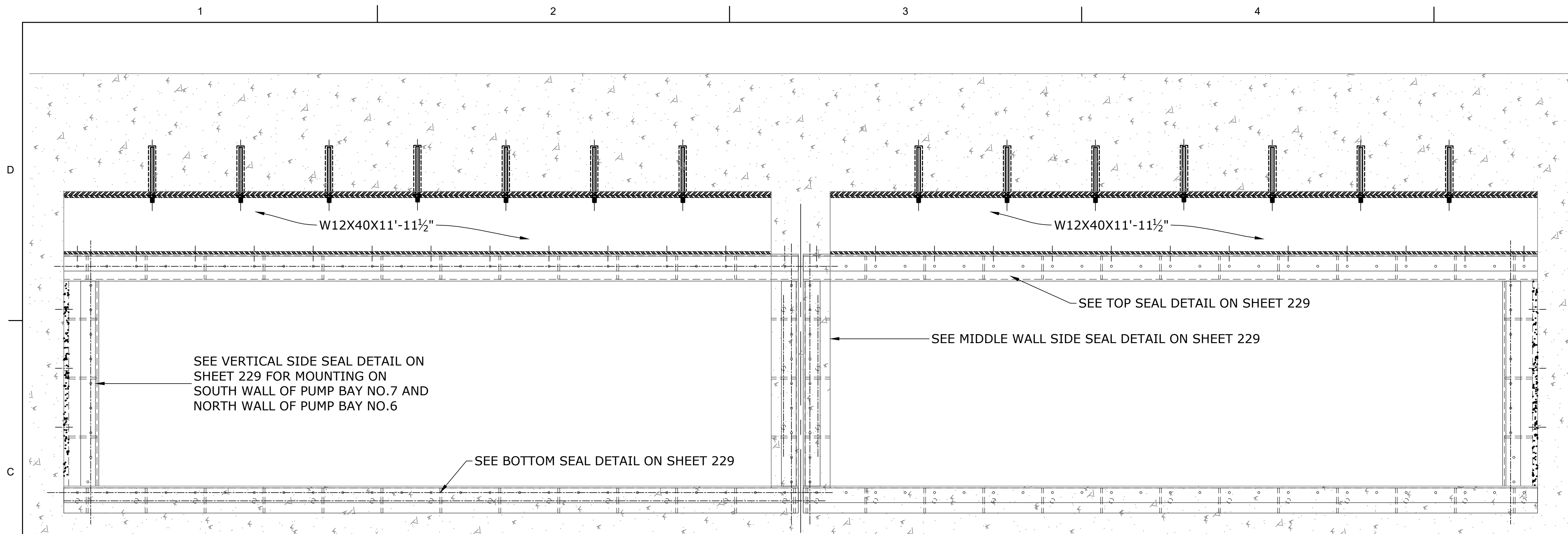
DESIGNED BY: EJM	CHECKED BY: EJM	APPROVED BY: EJM
PROJECT NO. PA-20-06-008	DATE: 06/03/2021	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP STATION BAYS 1 THRU 5
GATE DETAILS

SHEET IDENTIFICATION
227

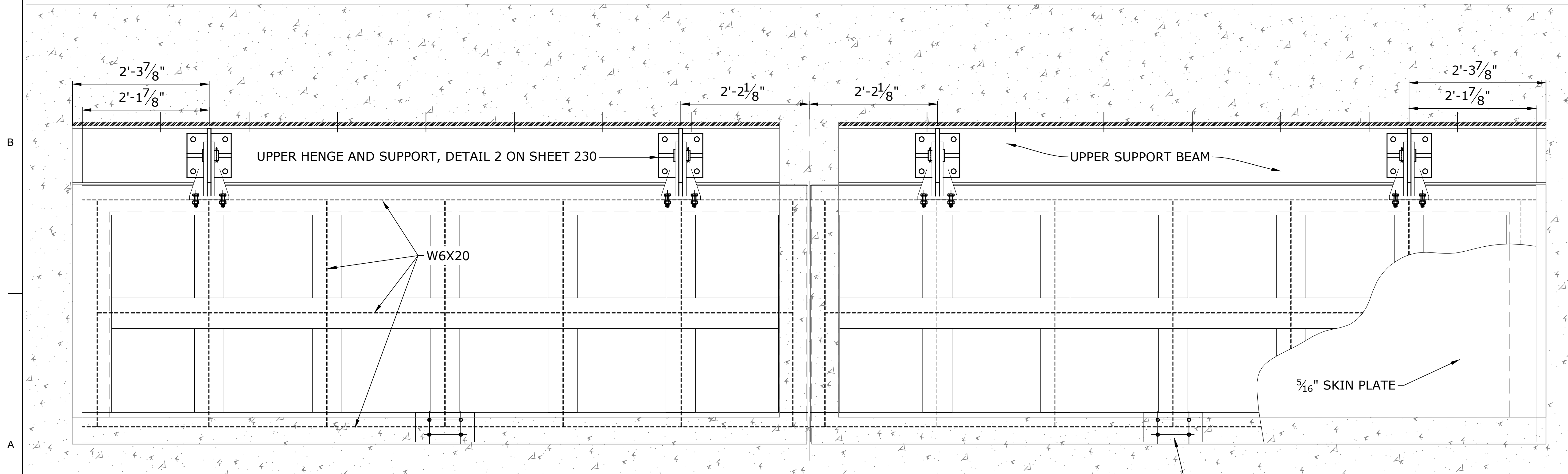


GATE FRAME LAYOUT

PUMP BAYS 6 AND 7

(PUMP BAY NO. 7 SHOWN)

SCALE: 1" = 1'-0"



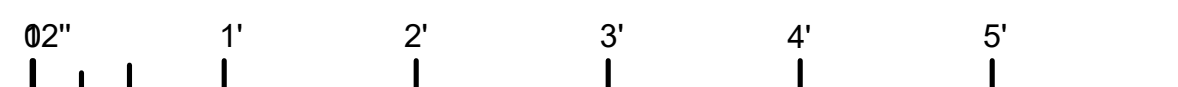
BACKFLOW PREVENTION GATE

PUMP BAYS 6 AND 7

(PUMP BAY NO. 7 SHOWN)

SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"



NOTES ON CONCRETE CORING:

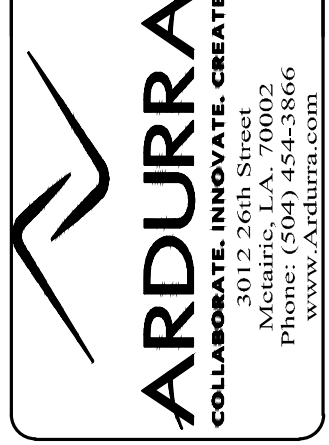
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NOTE:
1. ALL ELEVATIONS ARE NAVD 88.



ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: E.M.	CHECKED BY: E.M.	DRAWN BY: E.M.	APPROVED BY: E.M.
PROJECT NO. PA-20-08-008	FILE NAME	DATE: 06/03/2021	PLOT SCALE: AS SHOWN

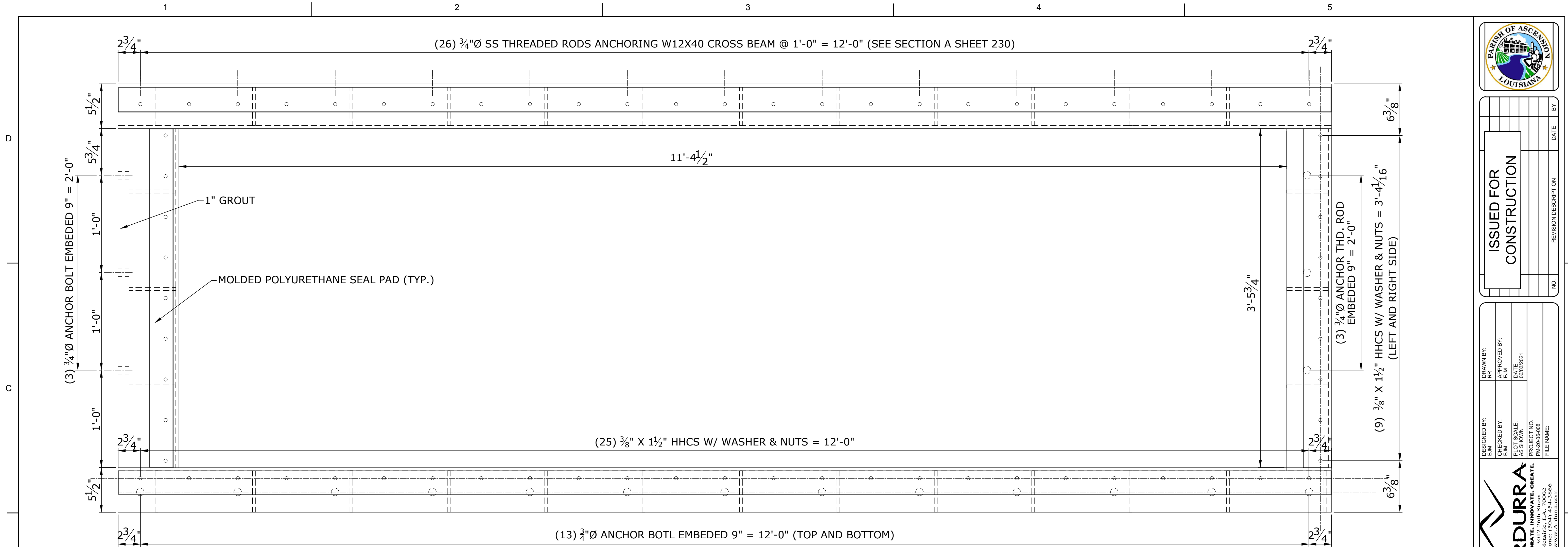


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP BAY 6 AND 7 FLAP GATE
BACKFLOW PREVENTION FRAME AND GATE

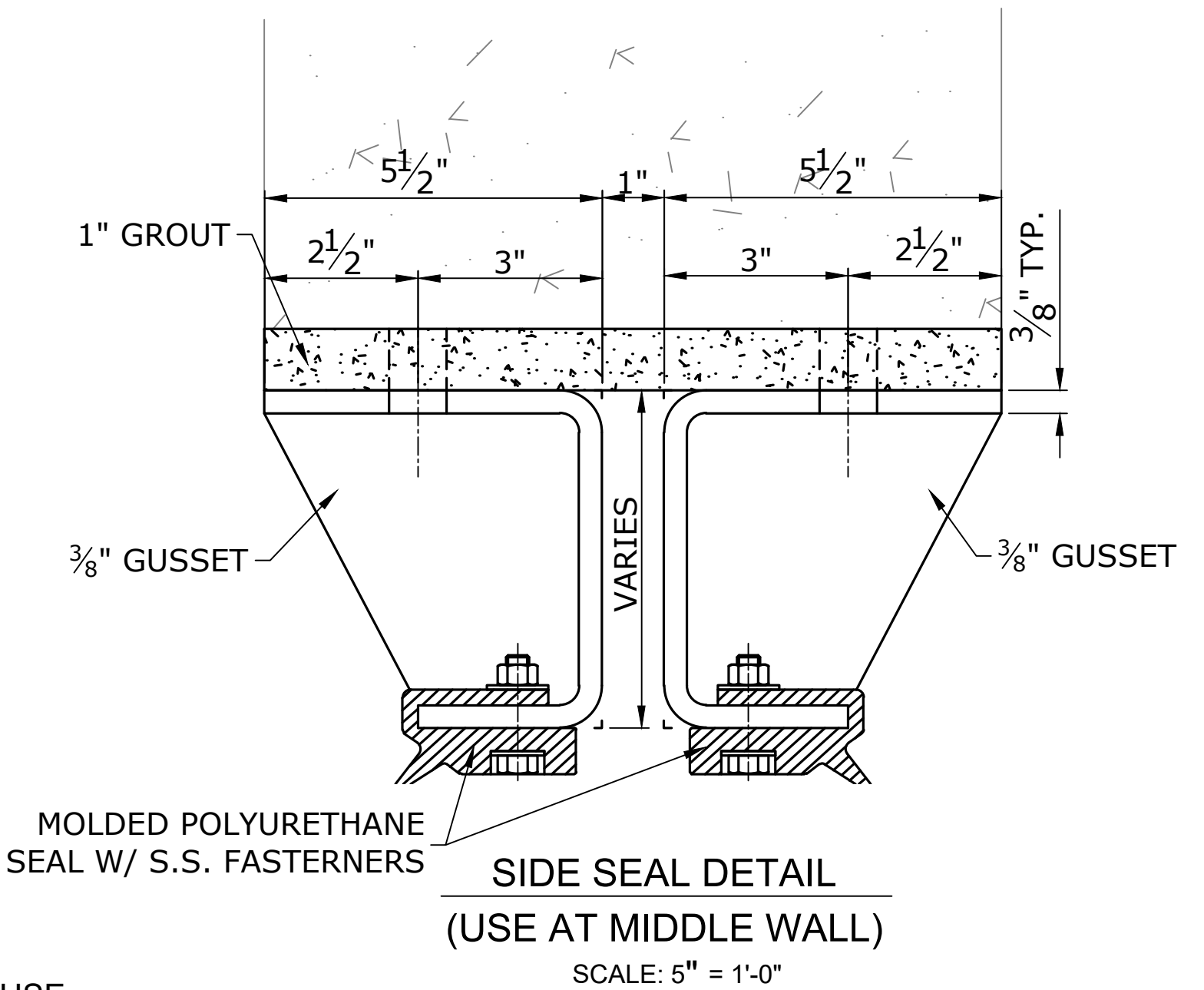
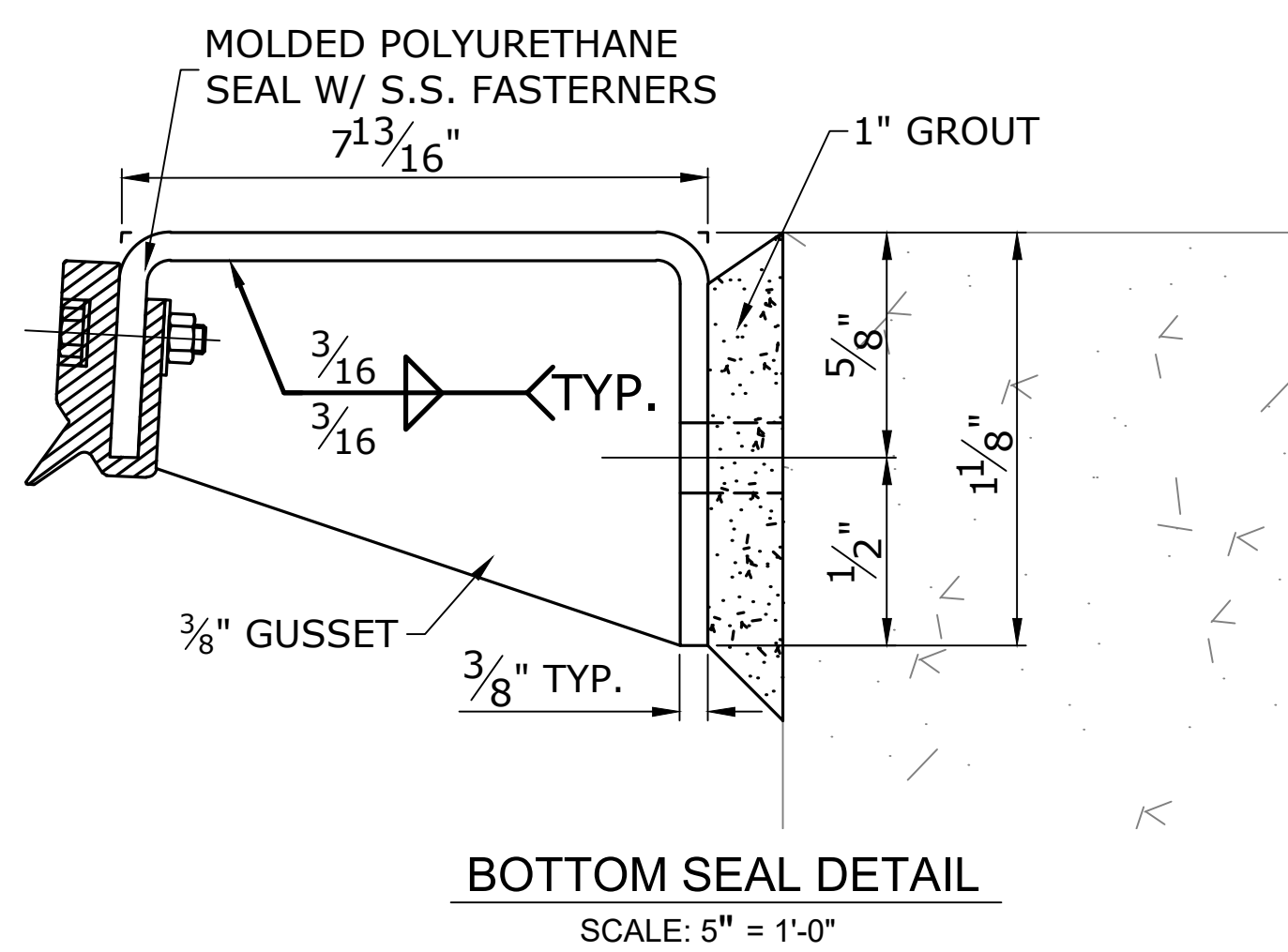
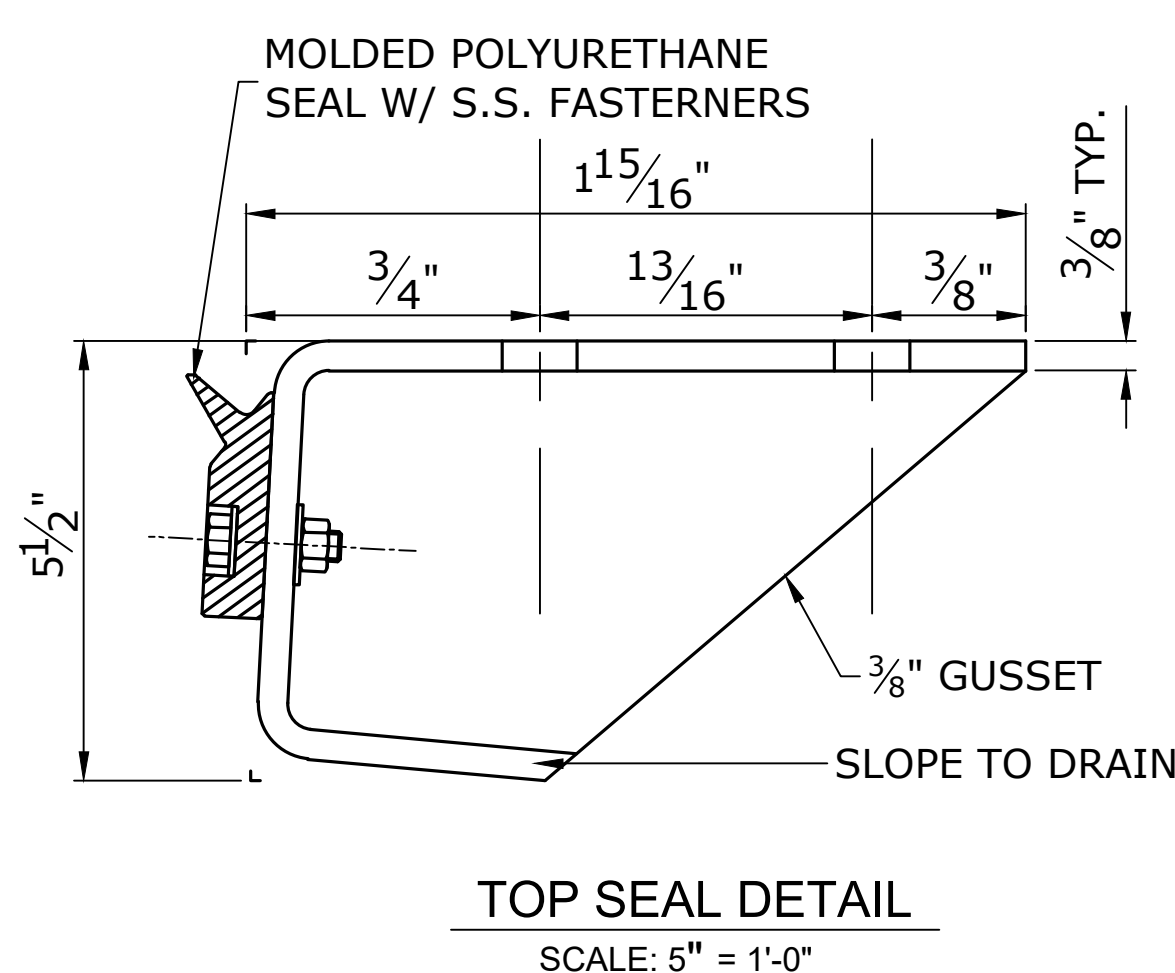
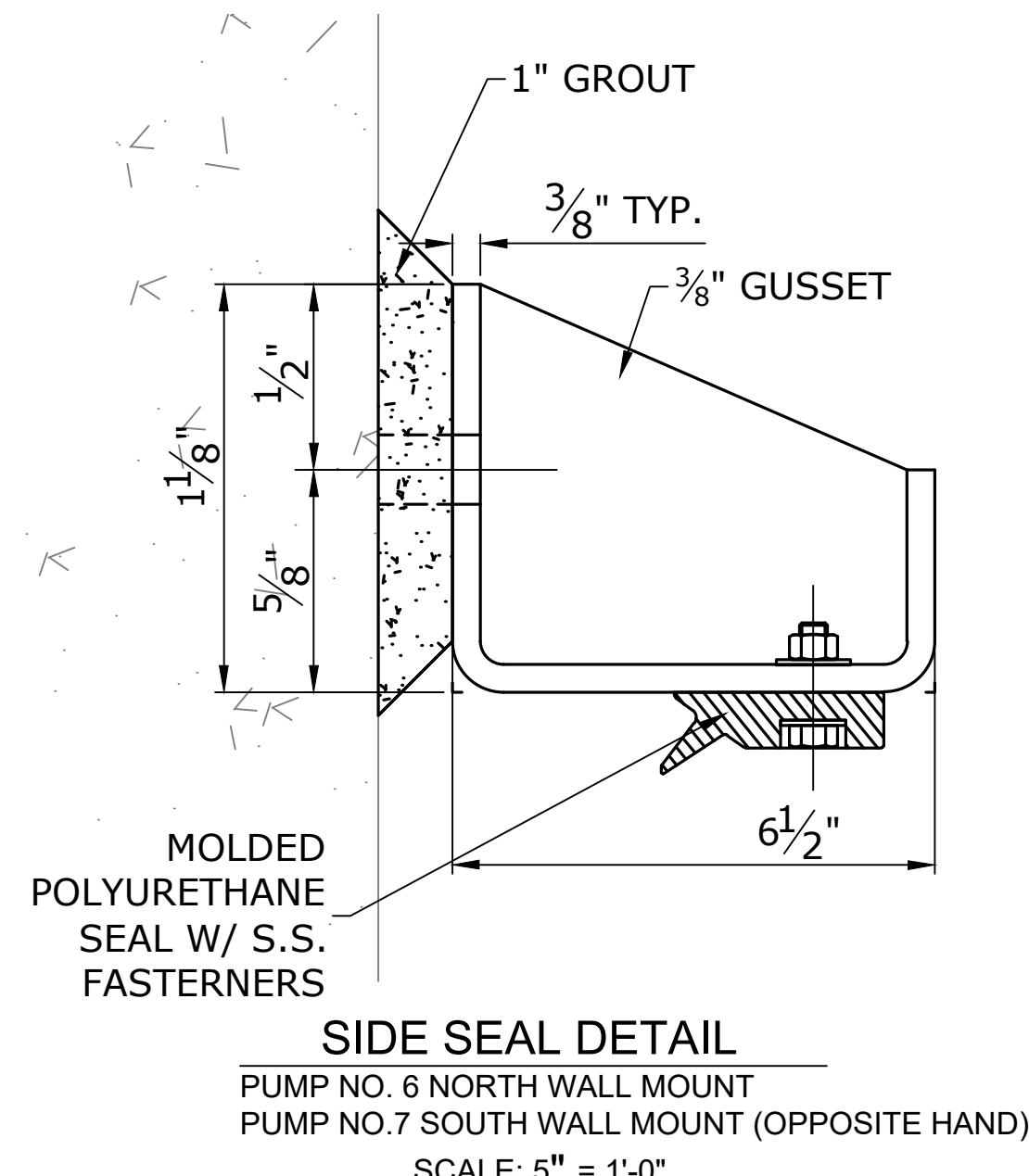
SHEET IDENTIFICATION
228

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GATE FRAMING ANCHOR BOLT LAYOUT

TYPICAL OF PUMP 6 & 7 LEFT BAYS
SCALE: 2" = 1'-0"



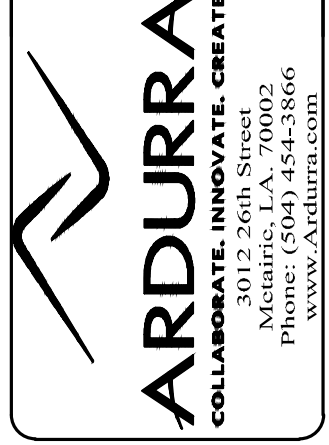
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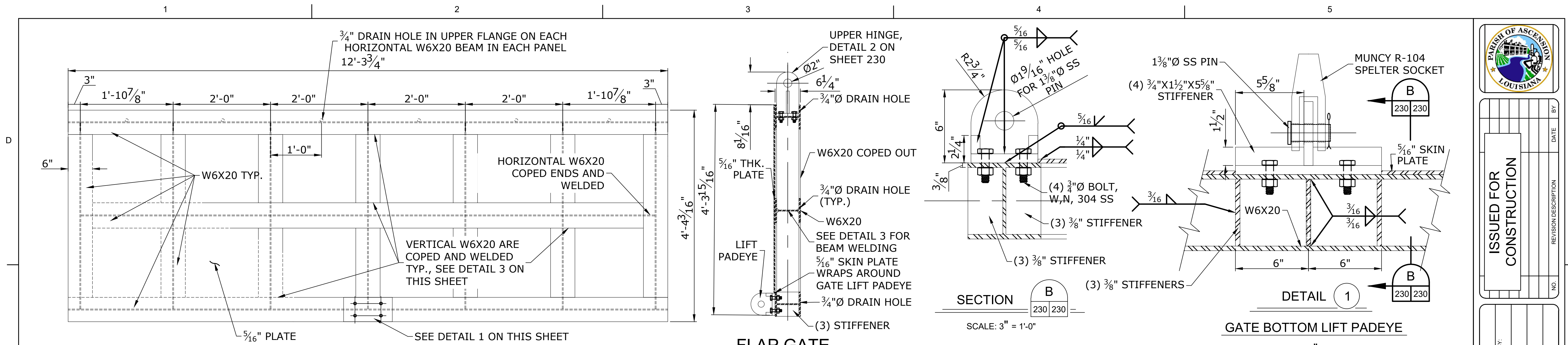
DESIGNED BY: E.M.	CHECKED BY: E.M.	APPROVED BY: E.M.
PROJECT NO. PA-20-08-008	DATE: 06/03/2021	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

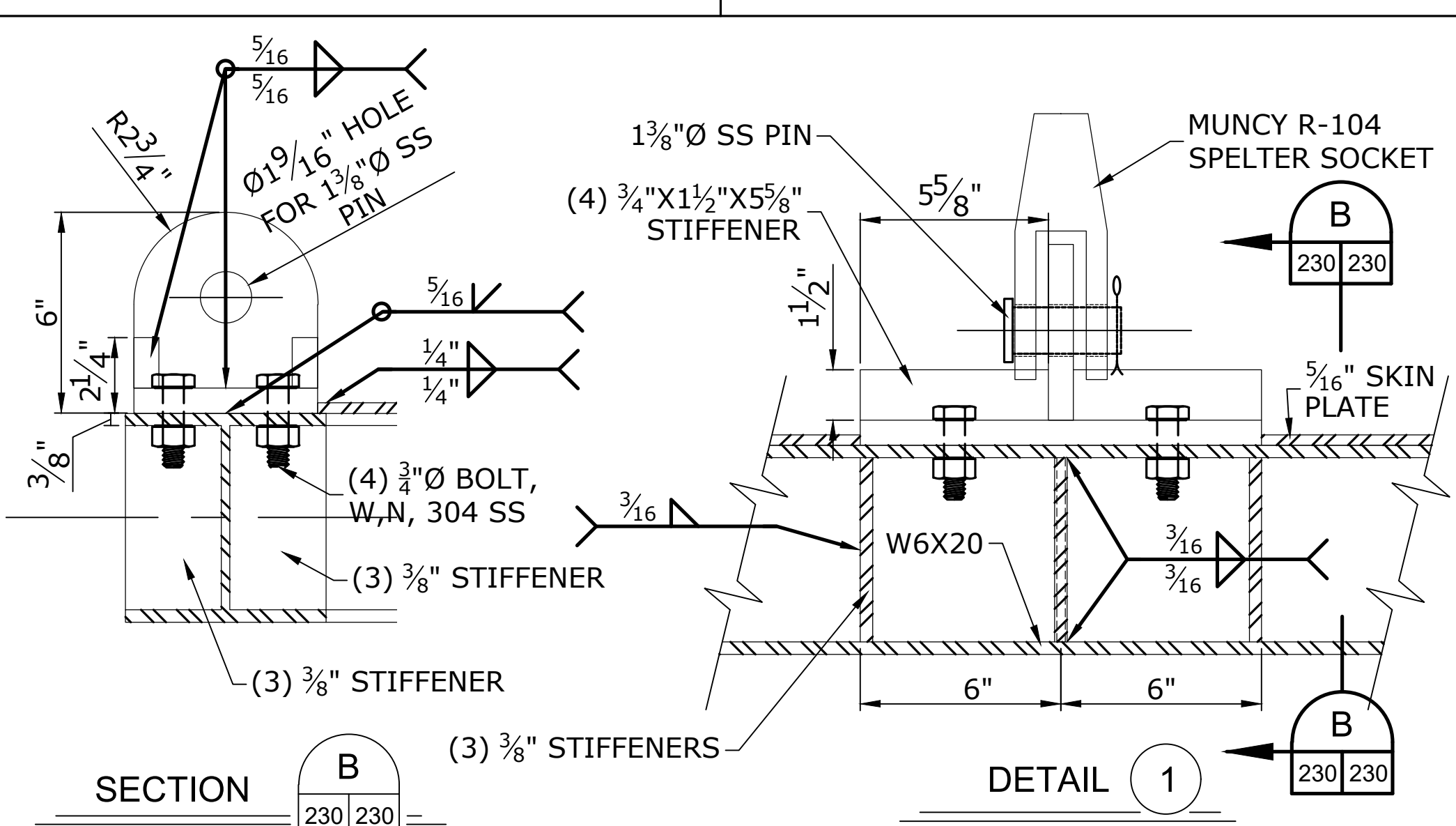
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP BAY 6 & 7 FLAP GATE
GATE FRAMING ANCHOR BOLT LAYOUT

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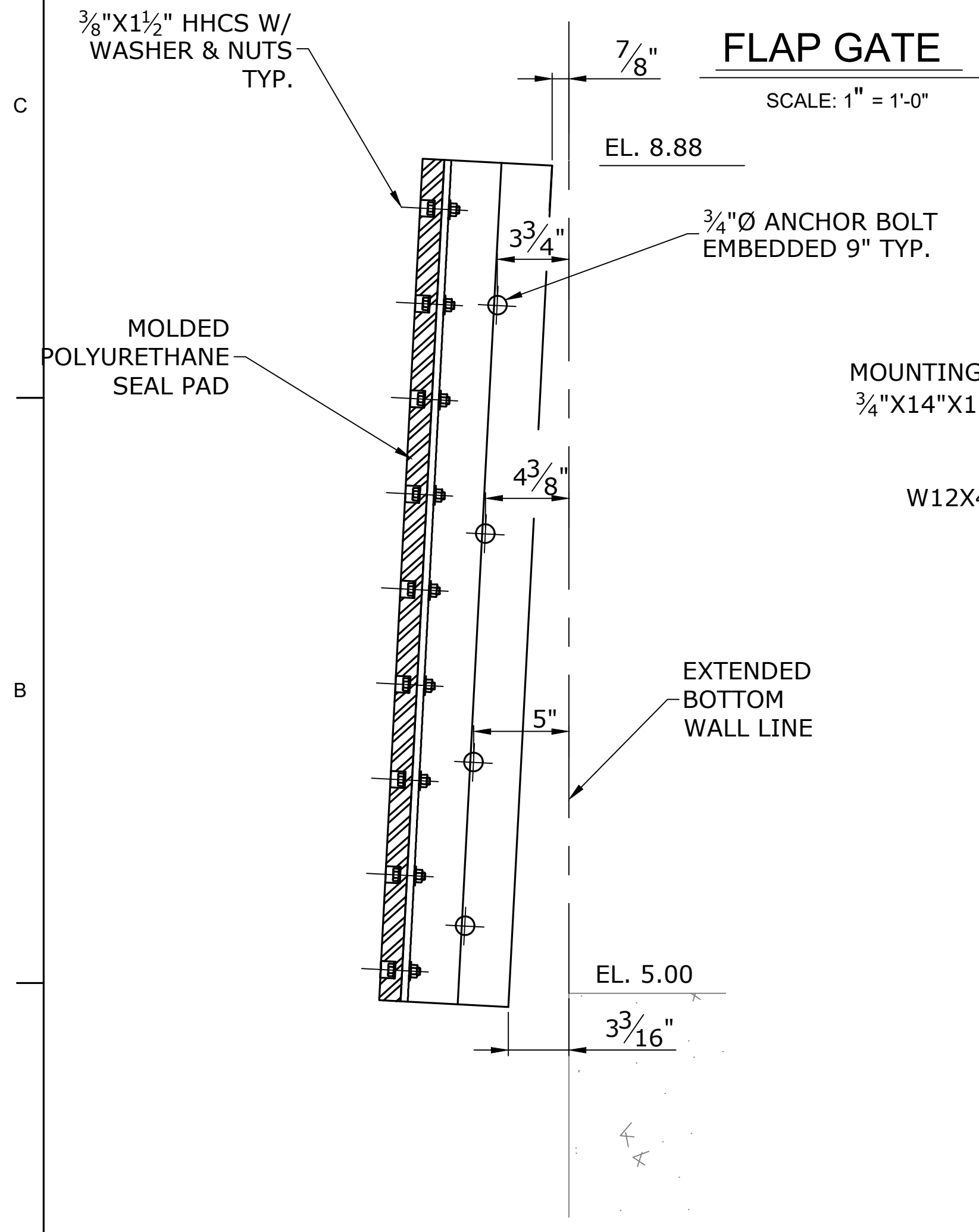
FLAP GATE

SCALE: 1" = 1'-0"



GATE BOTTOM LIFT PAIDEYE

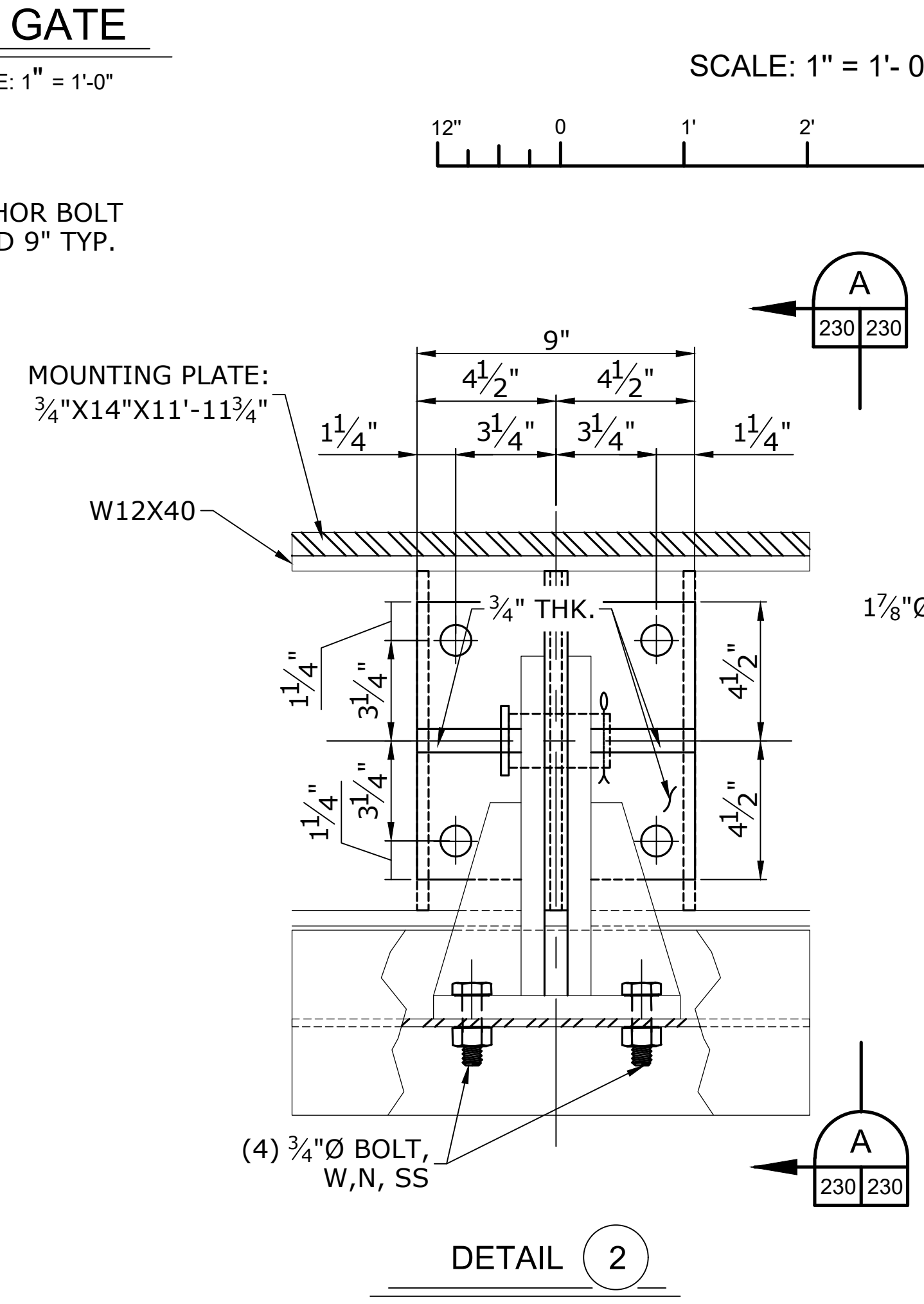
SCALE: 3" = 1'-0"



VERTICAL SIDEWALL SEAL

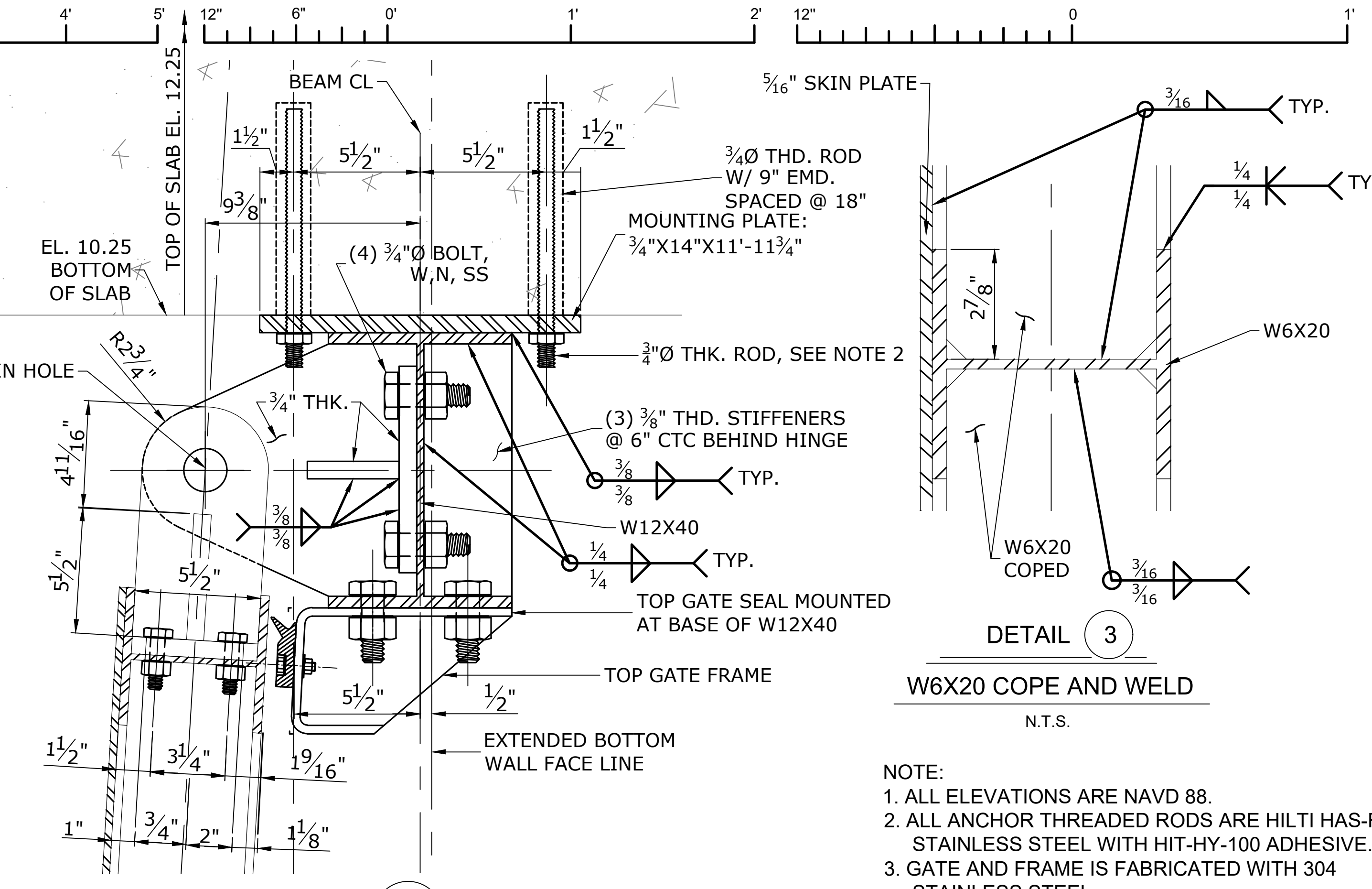
SHOWN AS MOUNTED ON SOUTHWALL OF PUMP BAY NO. 7, PUMP BAY NO. 6 NORTH WALL IS OPPOSITE HAND

SCALE: 2" = 1'-0"



UPPER HINGE AND SUPPORT DETAIL

SCALE: 3" = 1'-0"



SECTION A

SCALE: 3" = 1'-0"

DETAIL 3

W6X20 COPE AND WELD

N.T.S.

- NOTE:
1. ALL ELEVATIONS ARE NAVD 88.
 2. ALL ANCHOR THREADED RODS ARE HILTI HAS-R STAINLESS STEEL WITH HIT-HY-100 ADHESIVE.
 3. GATE AND FRAME IS FABRICATED WITH 304 STAINLESS STEEL.

- NOTES ON CONCRETE CORING:
1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
 2. FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ACHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSITION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
 3. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
 4. IF THE DRAWING GATE FRAMES AND LIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS AND SUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.

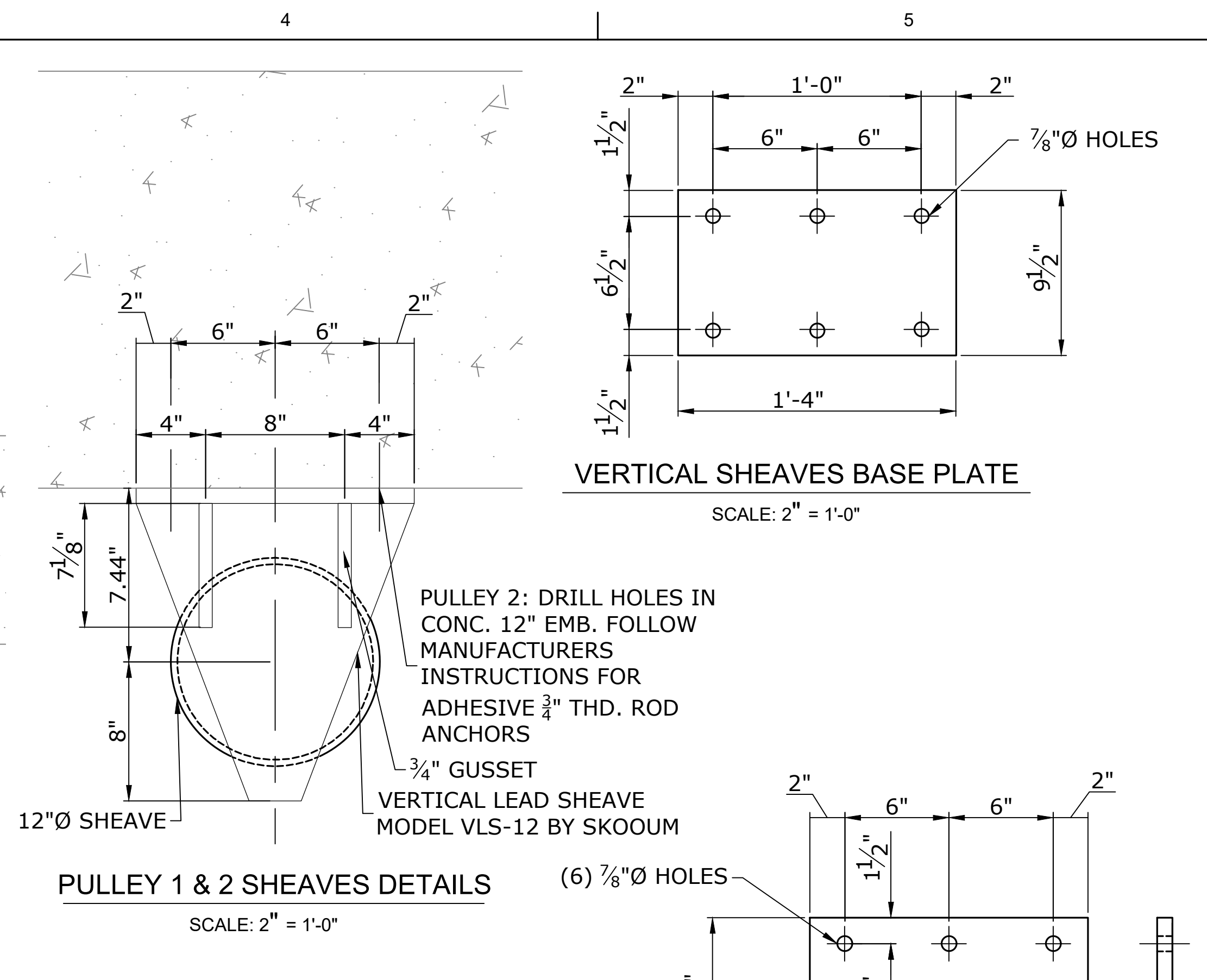
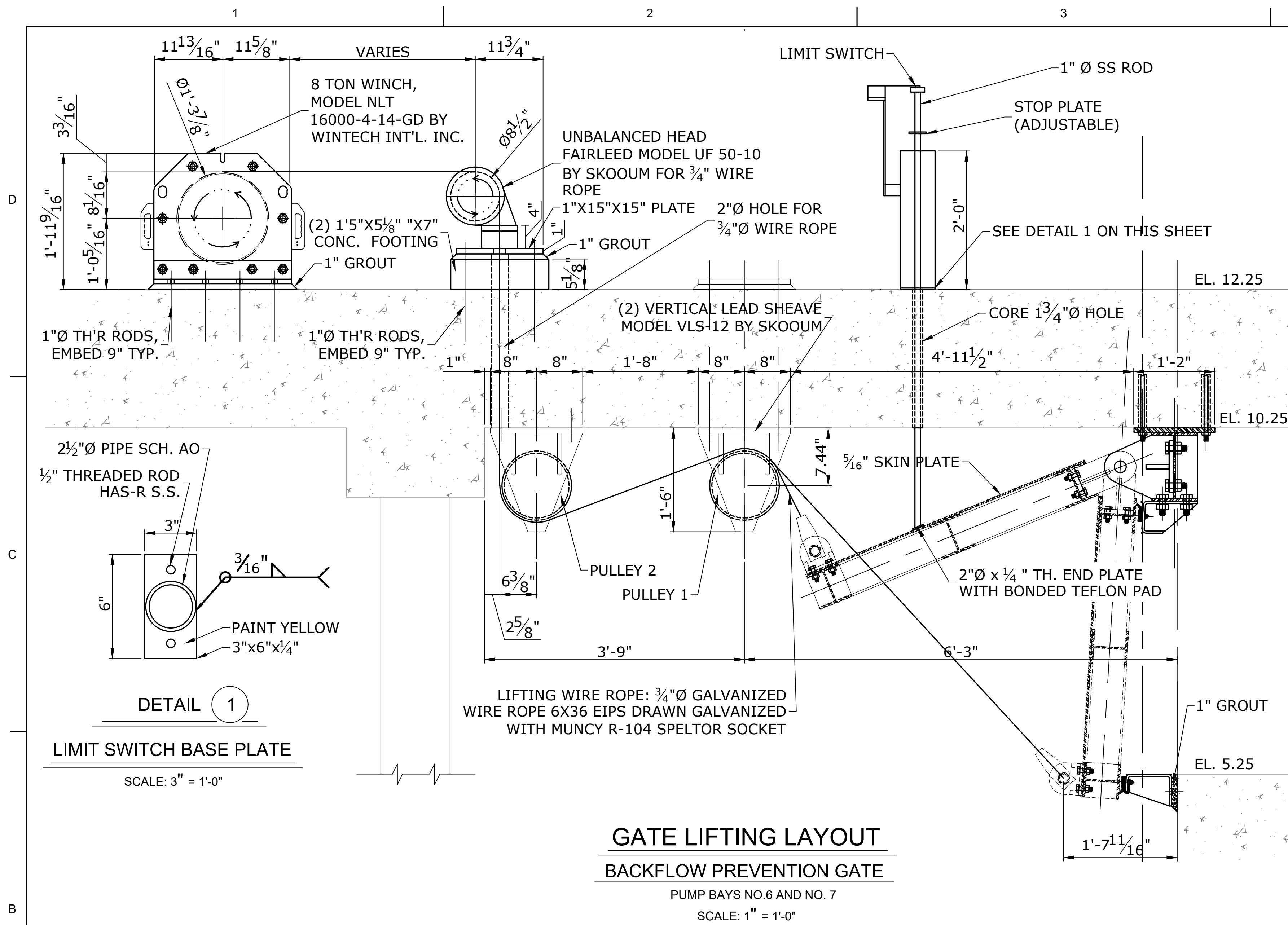
ASCENSION PARISH, LOUISIANA

MARVIN BRAUD PUMP STATION
FLOOD PROTECTION & MACHINERY IMPROVEMENTS
PUMP BAY 6 & 7 FLAP GATE
GATE AND SUPPORT DETAILS

<p>DESIGNED BY: [] CHECKED BY: [] DRAWN BY: [] APPROVED BY: []</p>	<p>DATE: [] DATE: [] DATE: []</p>
<p>ISSUED FOR CONSTRUCTION</p>	
<p>REVISION DESCRIPTION</p>	
<p>NO. []</p>	

SHEET IDENTIFICATION

230

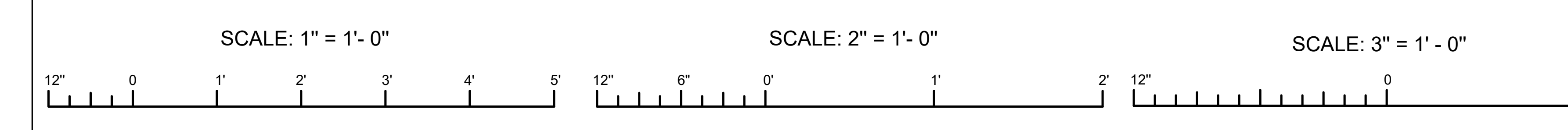


NOTE:

- ALL ELEVATIONS ARE NAVD 88.
- WINCH LOCATION SHALL NOT INTERFERE WITH PUMP ENGINE OPERATION.
- ALL NAMED MANUFACTURED EQUIPMENT MAY BE CHANGED TO OTHER MANUFACTURER PROVIDED THEY ARE APPROVED BY ENGINEER.
- ALL THREADED RODS/NUTS/WSHRS ARE A-36 STEEL. HOT DIP GALVANIZE AFTER FABRICATION UNLESS SPECIFIED DIFFERENTLY.

NOTES ON CONCRETE CORING:

- CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
- FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ACHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSTION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
- CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
- IF THE DRAWING GATE FRAMES AND LIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS AND SUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.



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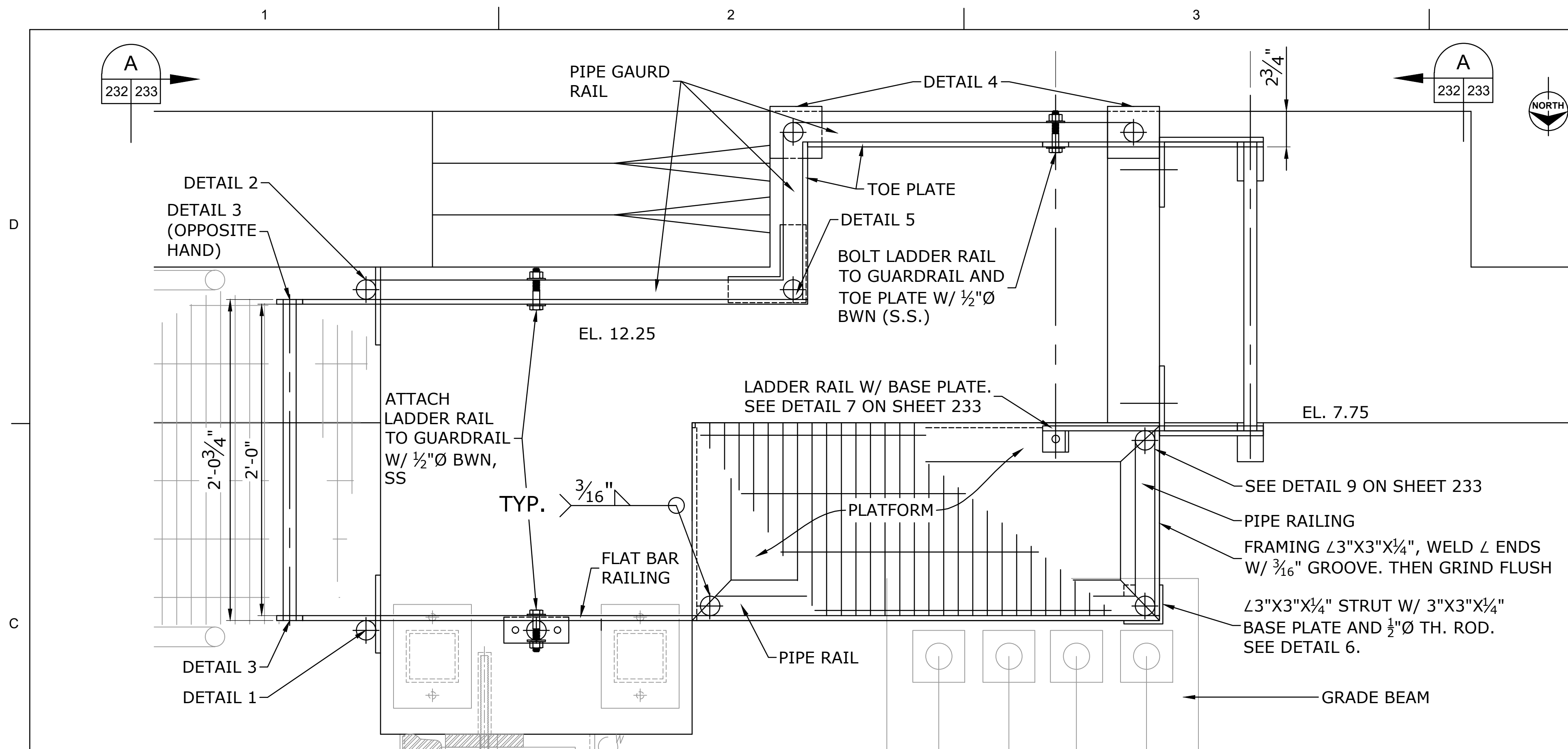
DESIGNED BY:	APPROVED BY:
CHECKED BY:	DATE:
PLOT SCALE:	DATE:
PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:

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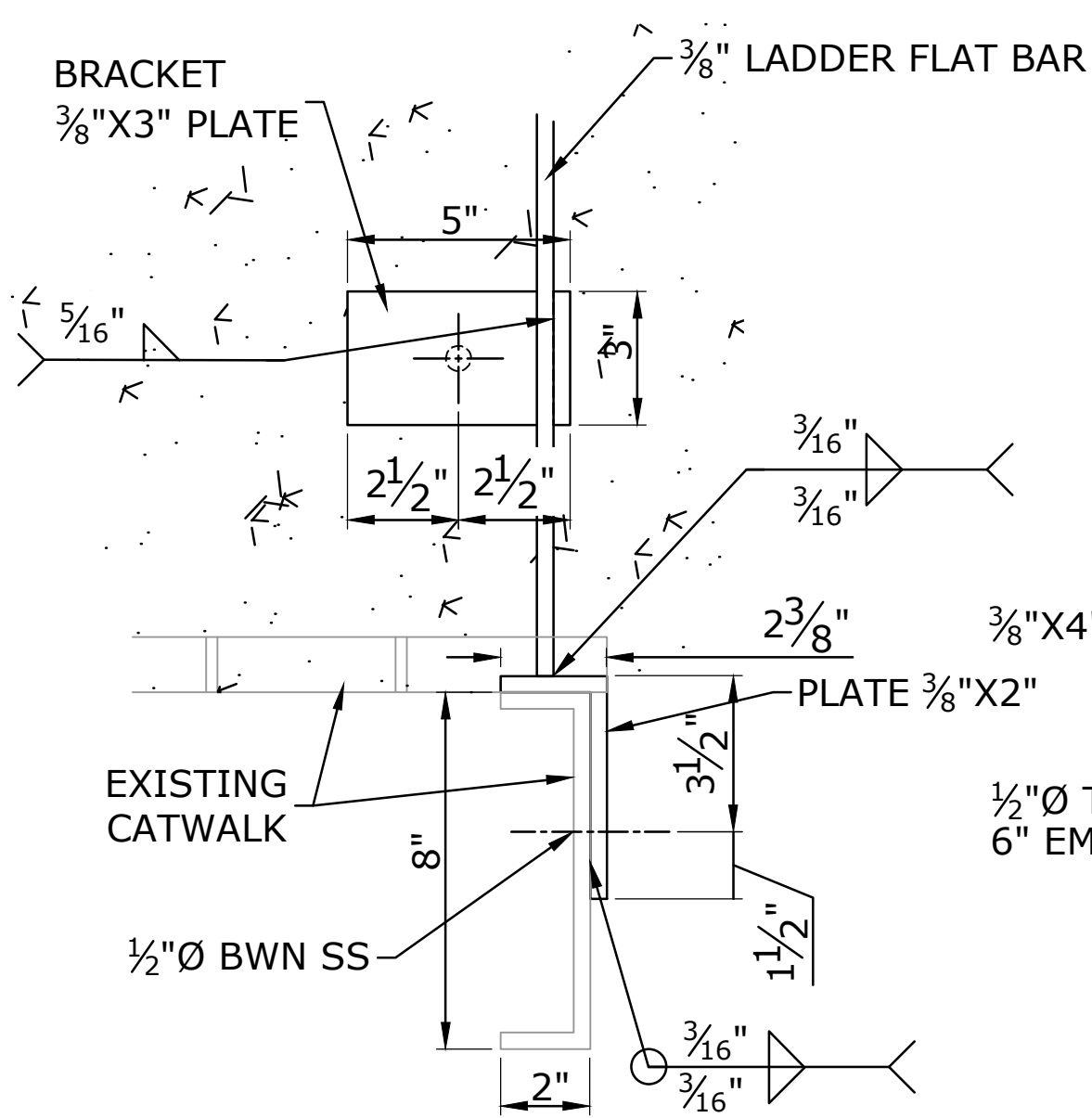
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEVATION
GATE LIFTING CONFIGURATION

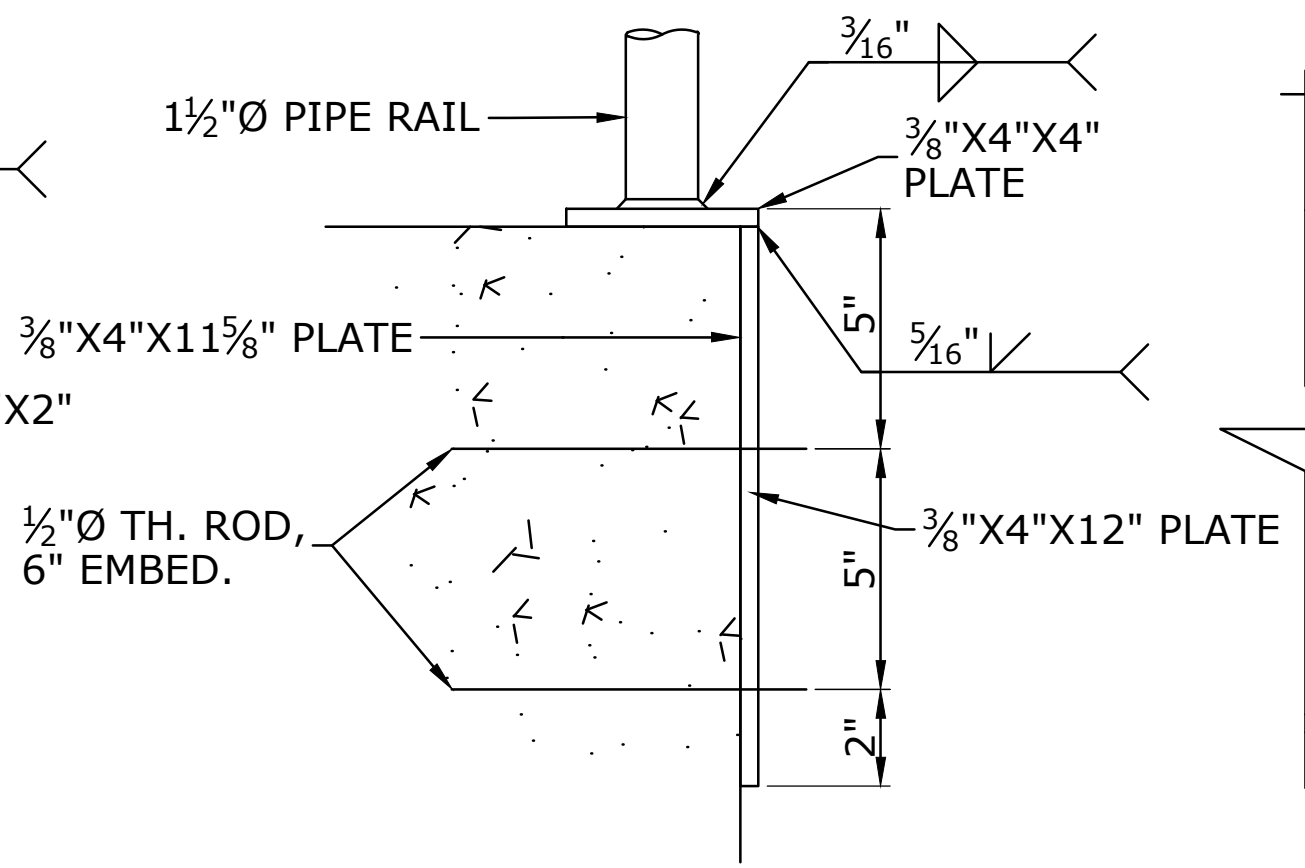
SHEET IDENTIFICATION
231



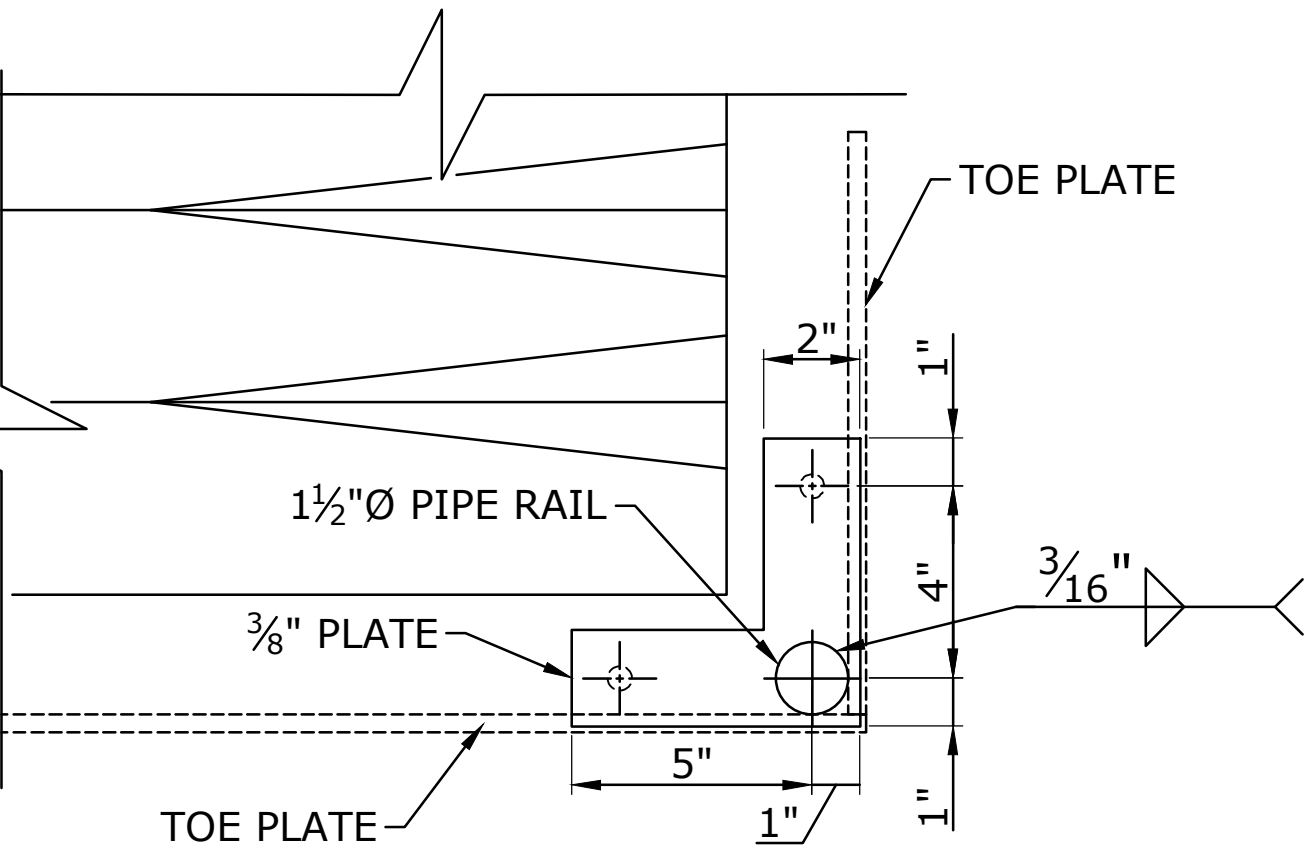
PLAN
BOAT GATE ACCESS
SCALE: 2" = 1'-0"



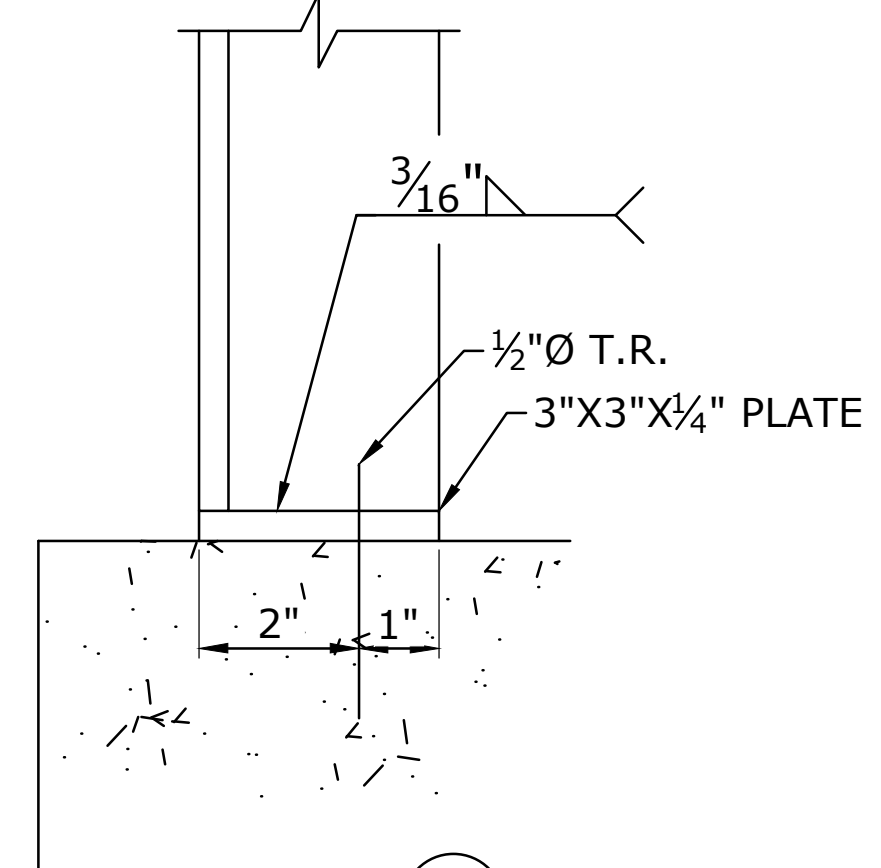
DETAIL 3
SCALE: 3" = 1'-0"



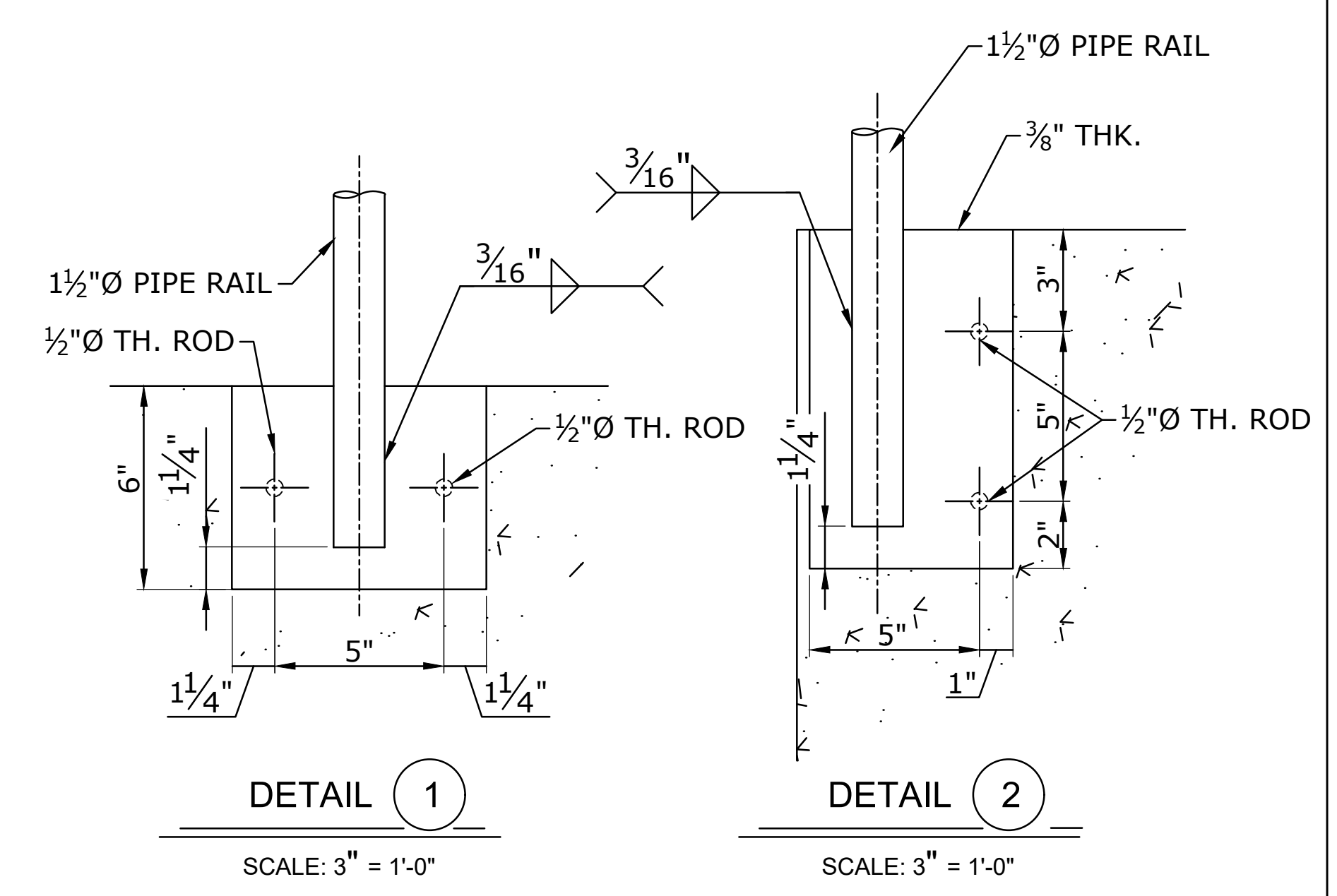
DETAIL 4
SCALE: 3" = 1'-0"



DETAIL 5
SCALE: 3" = 1'-0"



DETAIL 6
LADDER BRACKET
SCALE: 5" = 1'-0"



DETAIL 1
SCALE: 3" = 1'-0"

DETAIL 2
SCALE: 3" = 1'-0"

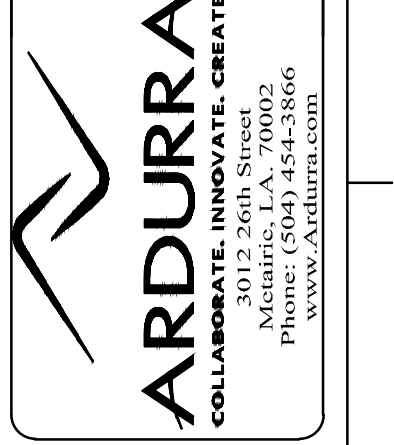


- NOTE:**
1. ALL ELEVATIONS ARE NAVD 88.
 2. ALL FASTENERS ARE HITLI HAS-R STAINLESS STEEL THREADED RODS, ASTM F593: OR, APPROVED EQUAL.
 3. HOT DIP GALVANIZED AFTER FABRICATION.
 4. WELD ALL PLATE, ANGLES, BASE PLATES WITH 3/16" FILLET WELDS. UNLESS NOTED OTHERWISE.
 5. ALL STAIR RAILS. ROUND ALL CORNERS OF FLAT BAR RAIL BEFORE GALVANIZING.



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DATE	BY

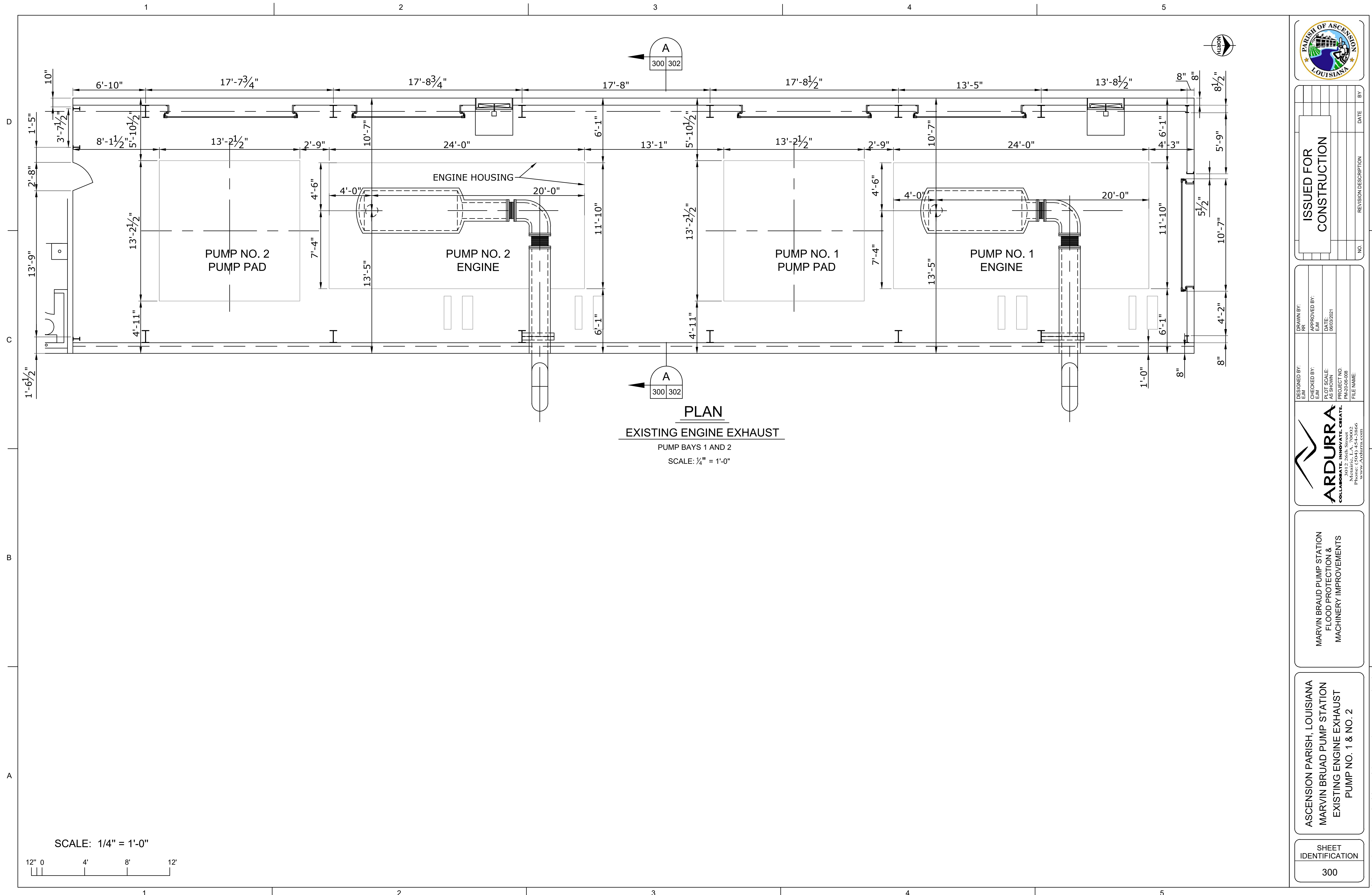
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DATE:	DATE:	DATE:
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

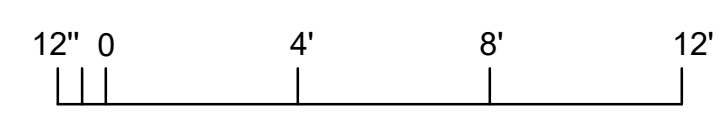
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NORTH FLOOD PROTECTION
BOAT GATE ACCESS

SHEET IDENTIFICATION
232



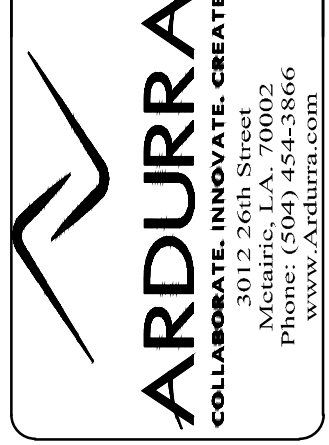
PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 1 AND 2
 SCALE: 1/4" = 1'-0"

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



NO.	REVISION DESCRIPTION	DATE	BY

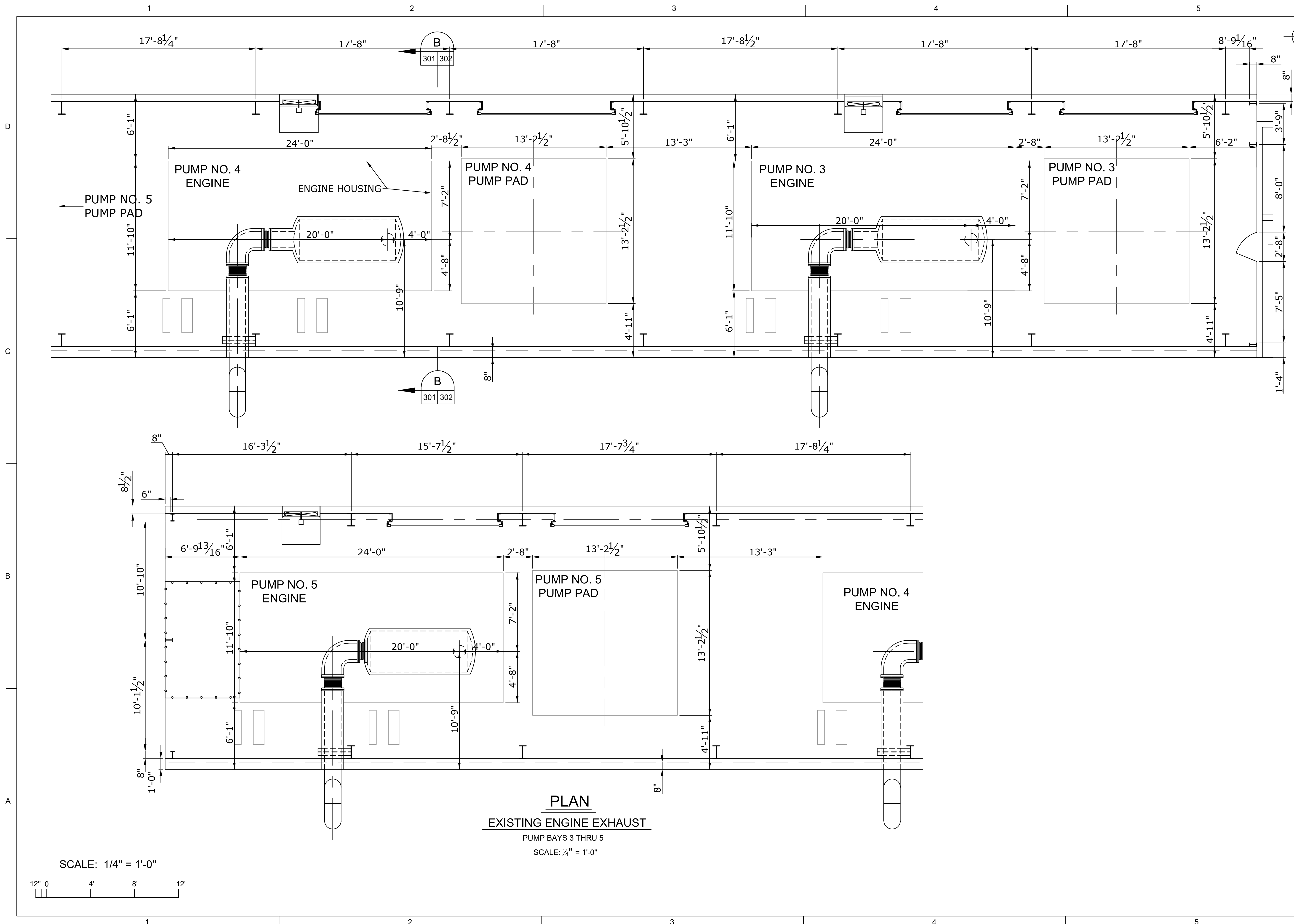
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CHECKED BY:	DATE:
PLOT SCALE:	PROJECT NO.
AE SHOWN	PA-20-08-008
FILE NAME:	



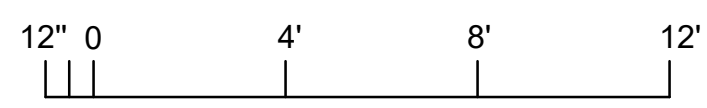
MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 EXISTING ENGINE EXHAUST
 PUMP NO. 1 & NO. 2

SHEET IDENTIFICATION
300



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

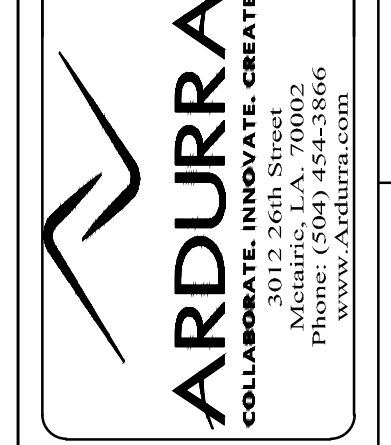


PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 3 THRU 5
 SCALE: 1/4" = 1'-0"



NO.	REVISION DESCRIPTION	DATE	BY

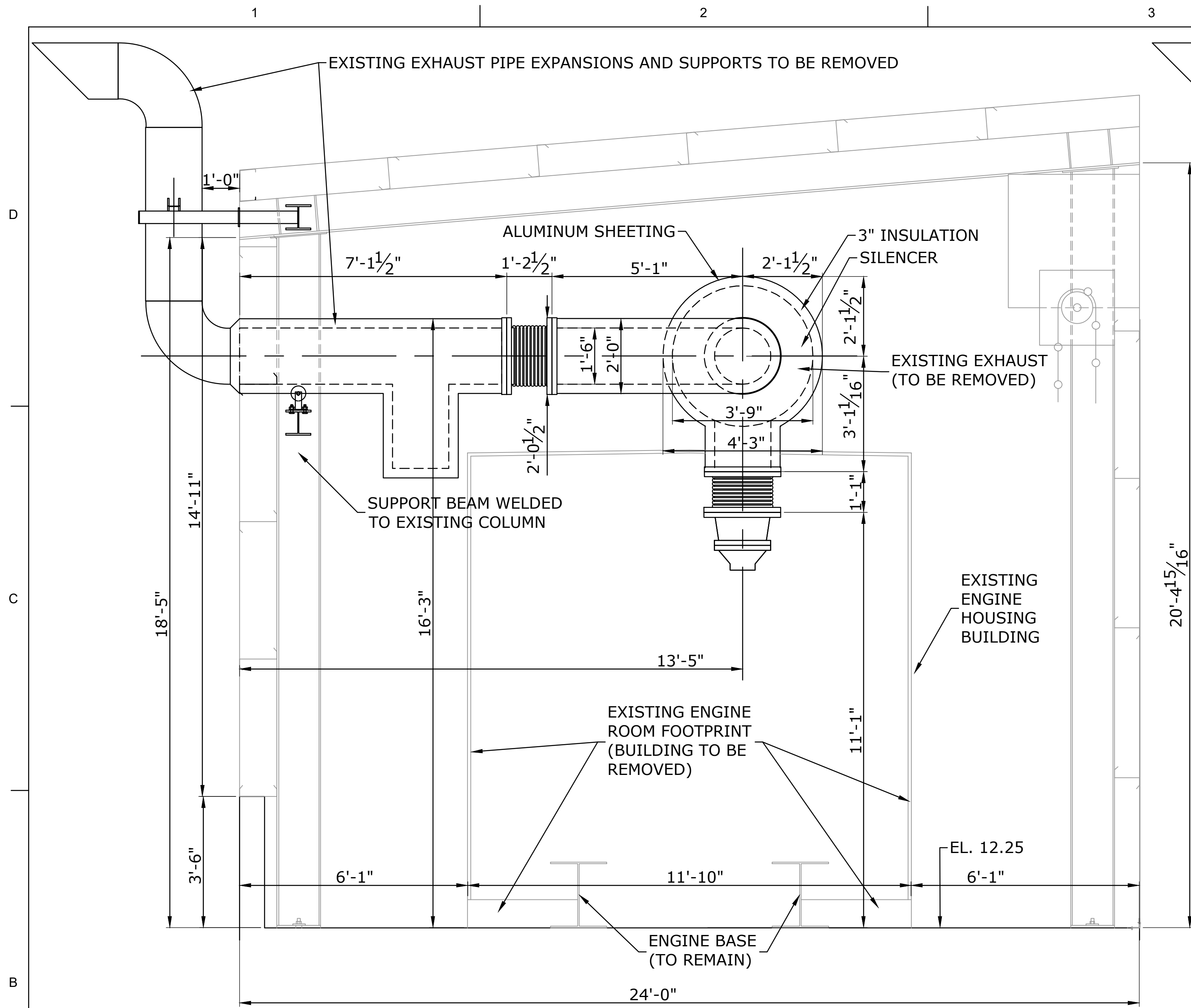
DESIGNED BY: EJM	APPROVED BY: EJM
CHECKED BY: EJM	DATE: 06/03/2021
PLOT SCALE: AS SHOWN	
PROJECT NO. PA-20-06-008	
FILE NAME	



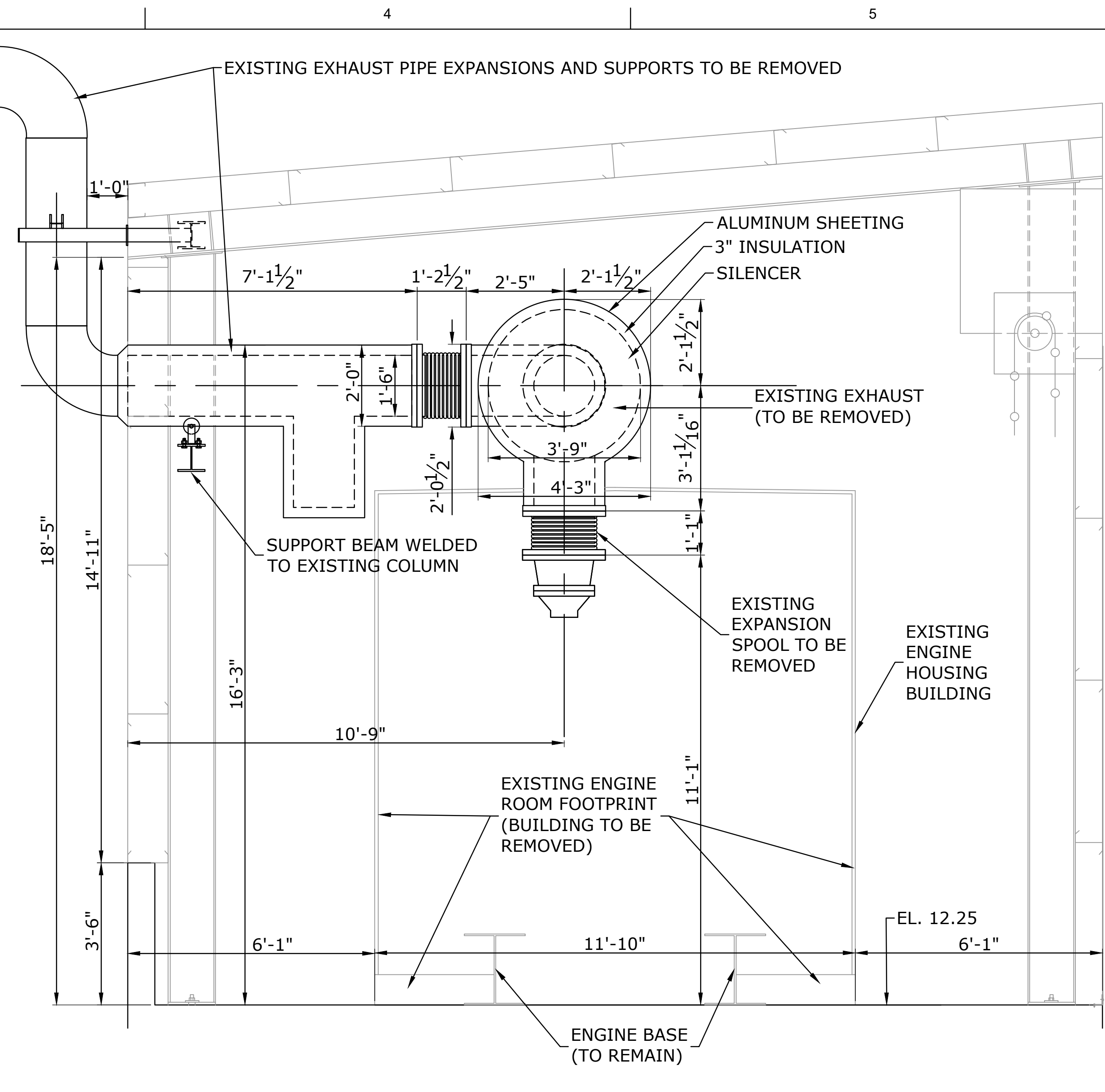
MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 EXISTING ENGINE EXHAUST
 PUMP NO. 3 THRU NO. 5

SHEET IDENTIFICATION
 301

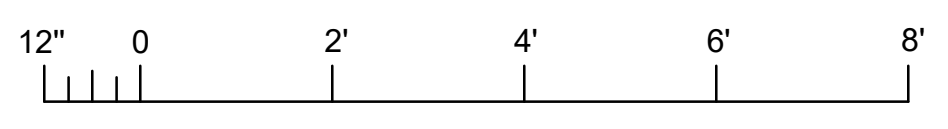


SECTION **A**
 300 302
EXISTING ENGINE EXHAUST
 PUMP BAYS 1 & 2
 SCALE: 1/2" = 1'-0"



SECTION **B**
 301 302
EXISTING ENGINE EXHAUST
 PUMP BAYS 3 THRU 5
 SCALE: 1/2" = 1'-0"

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



- DEMOLITION NOTE:**
1. REMOVE EXHAUST AND AIR INTAKE SYSTEM.
 2. REMOVE EXISTING ENGINE HOUSING COMPLETELY.
 3. PROVIDE SUPPORTS FOR ELECTRICAL AND PIPING THAT REMAIN.

NOTE:
 1. ALL ELEVATIONS ARE NAVD 88.



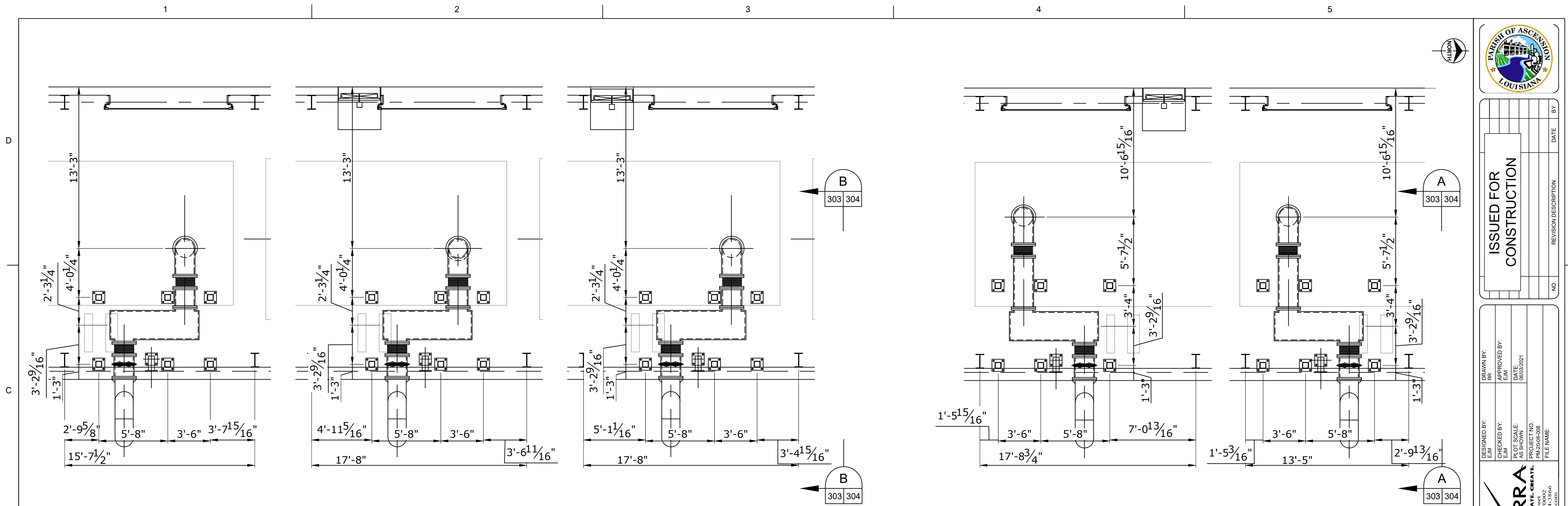
ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

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PROJECT NO.	PROJECT NAME:	FILE NAME:

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MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 PUMP STATION BAYS 1 THRU 5
 DEMOLITION HOUSING, AND EXHAUSTS



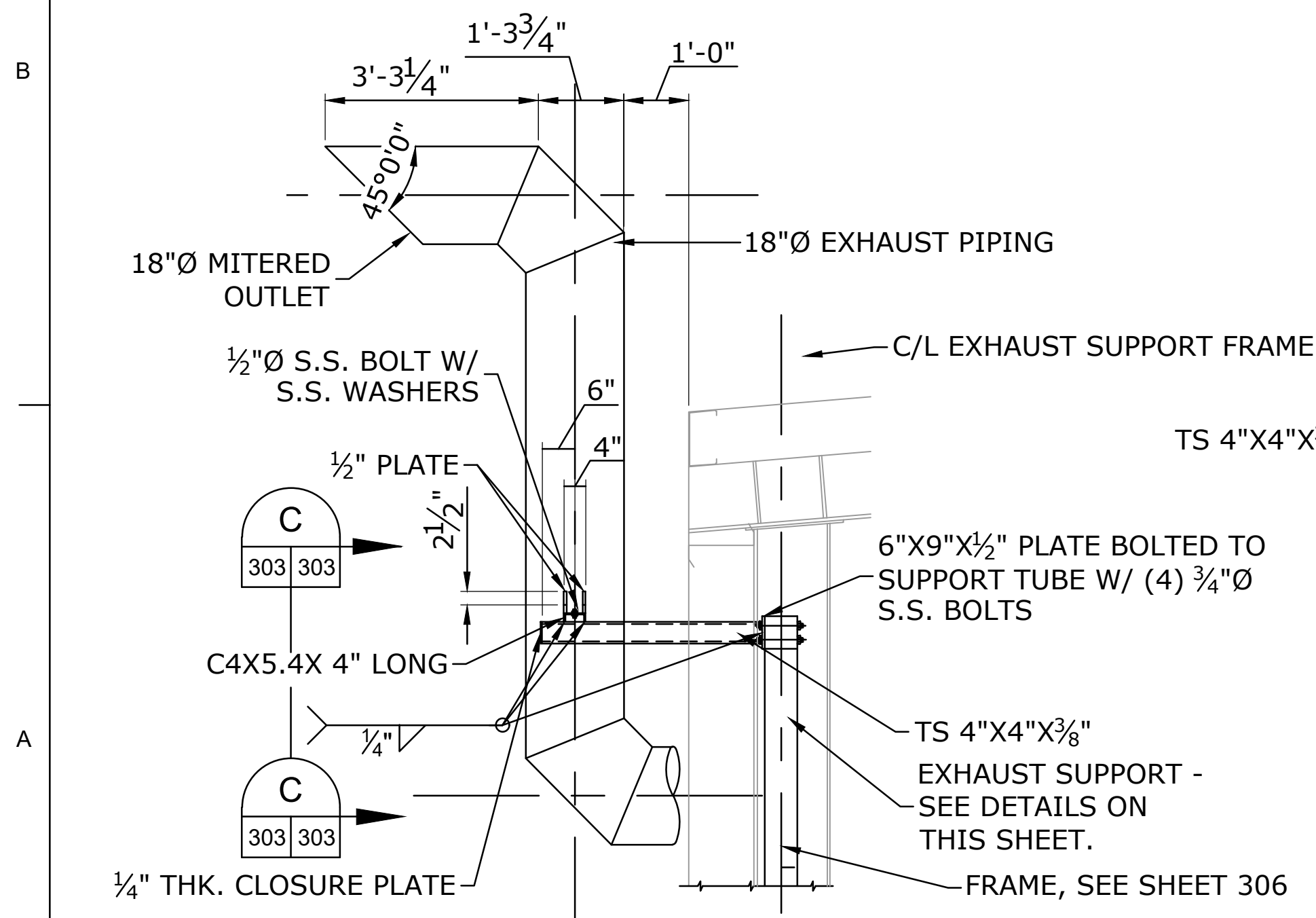
PLAN
NEW ENGINE EXHAUST SUPPORT
 ENGINE NO. 5
 SCALE: 1/4" = 1'-0"

PLAN
NEW ENGINE EXHAUST SUPPORT
 ENGINE NO. 4
 SCALE: 1/4" = 1'-0"

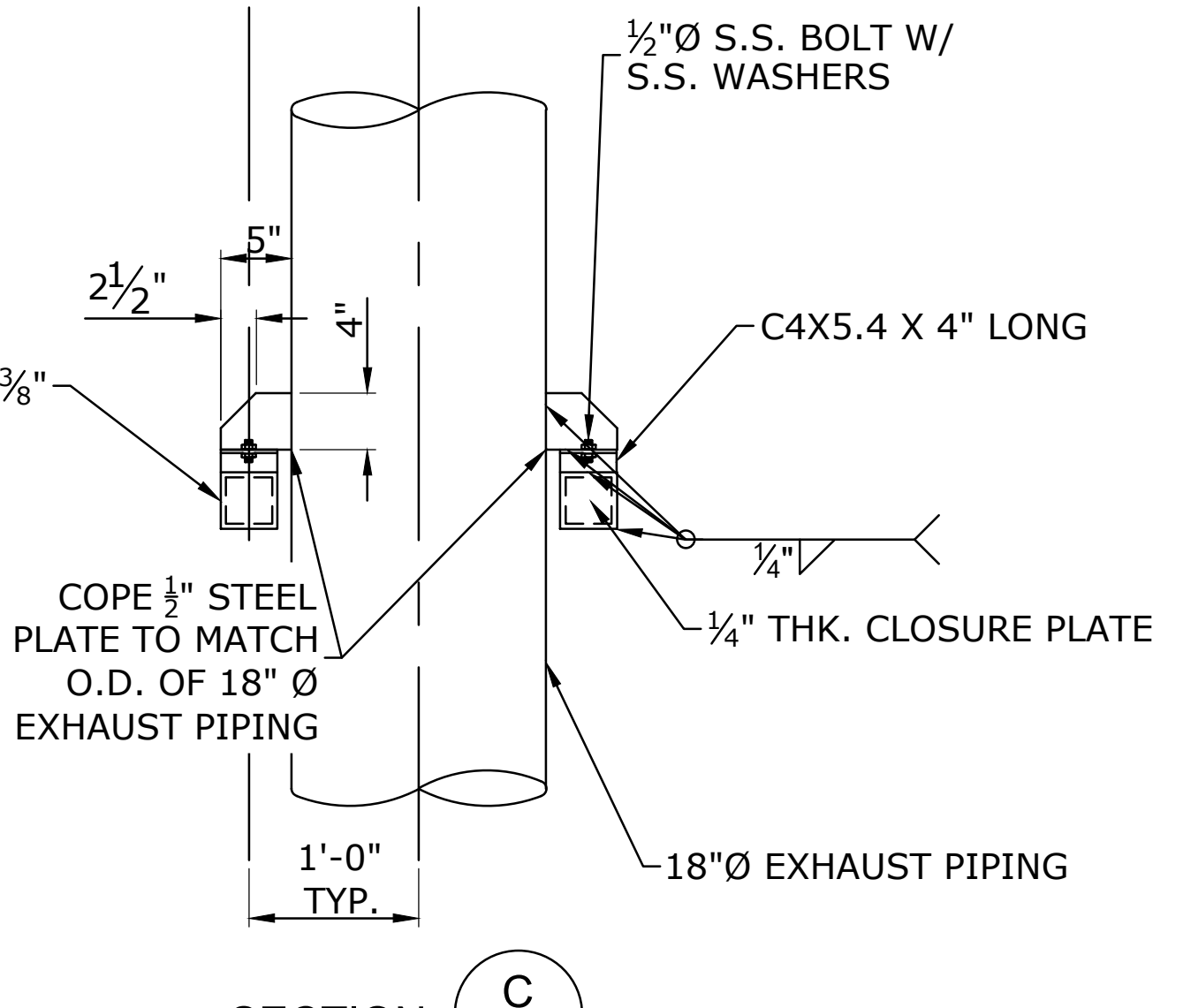
PLAN
NEW ENGINE EXHAUST SUPPORT
 ENGINE NO. 3
 SCALE: 1/4" = 1'-0"

PLAN
NEW ENGINE EXHAUST SUPPORT
 ENGINE NO. 2
 SCALE: 1/4" = 1'-0"

PLAN
NEW ENGINE EXHAUST SUPPORT
 ENGINE NO. 1
 SCALE: 1/4" = 1'-0"

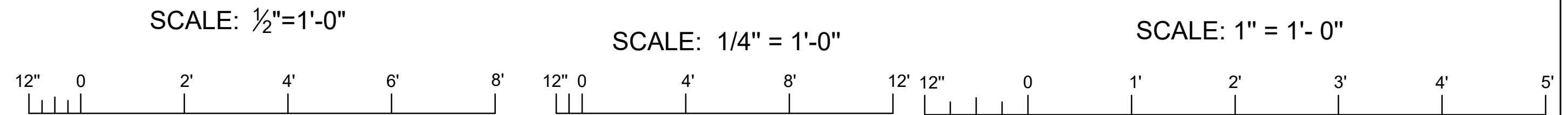


EXHAUST SUPPORT DETAIL (EXTERIOR)
 SCALE: 1/2" = 1'-0"



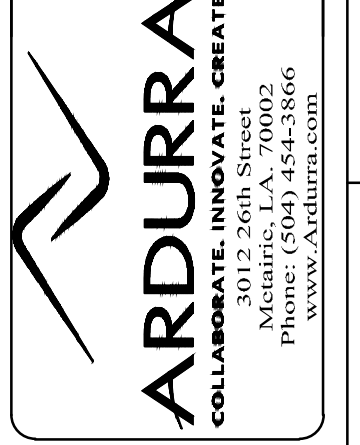
SECTION C
 SCALE: 1" = 1'-0"

NOTE:
 1. ALL ELEVATIONS ARE NAVD 88.



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DATE	BY

DESIGNED BY:	APPROVED BY:
CHECKED BY:	E.M.
PLOT SCALE:	DATE:
AE SHOWN	06/03/2021
PROJECT NO.	PA-2020-008
FILE NAME	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

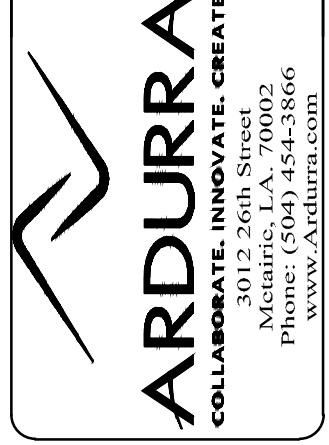
ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 NEW ENGINE EXHAUST SUPPORT
 PLAN AND DETAILS

SHEET IDENTIFICATION
303



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NO.
REVISION DESCRIPTION
DATE
BY

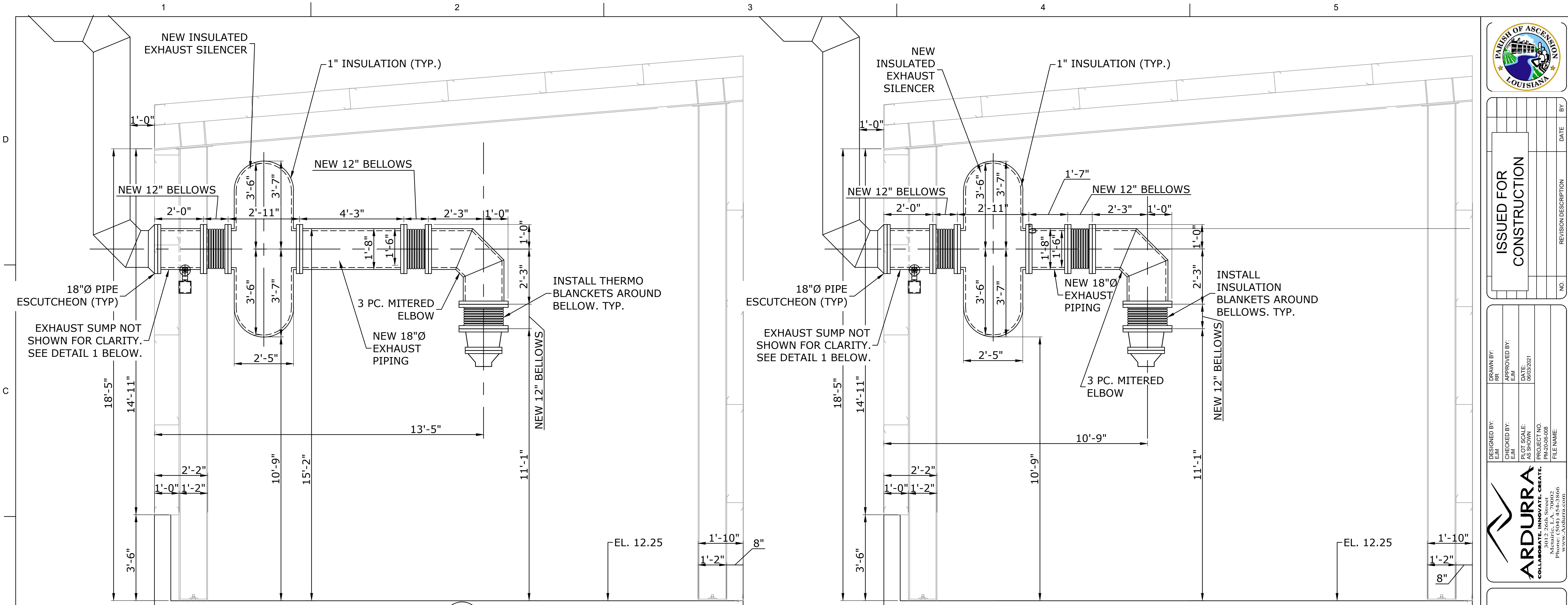
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APPROVED BY:	EJM
DATE:	06/03/2021
PROJECT NO.:	PA-20-06-008
FILE NAME:	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

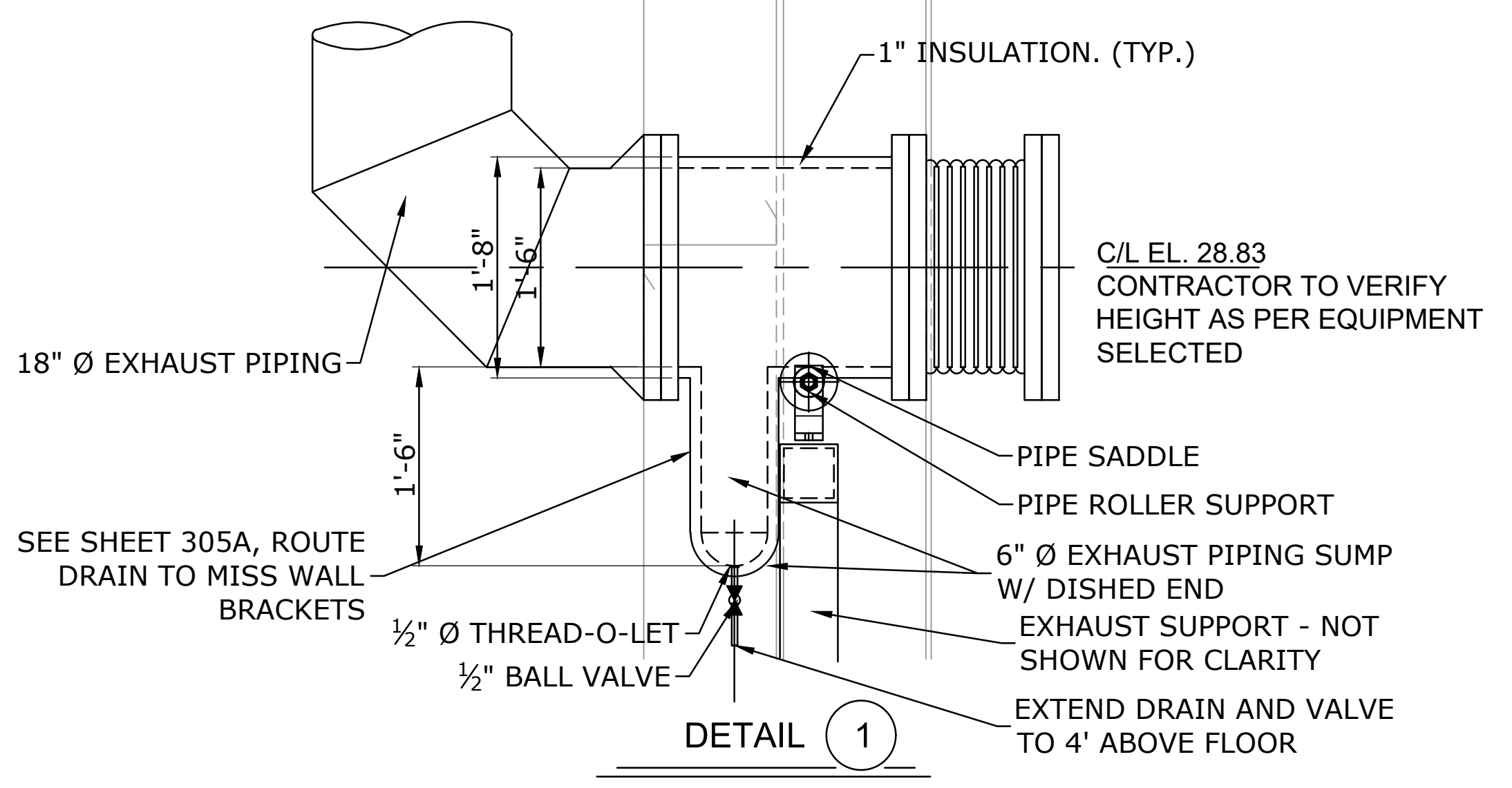
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PUMP STATION BAYS 1 THRU 5
NEW ENGINE EXHAUST SYSTEM

SHEET IDENTIFICATION
304



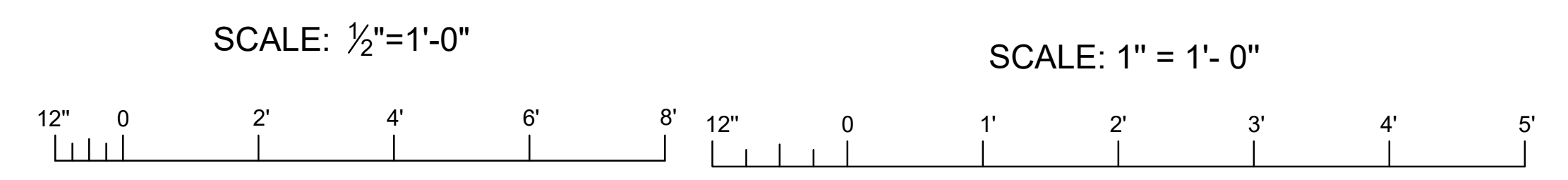
SECTION A
303 304
NEW ENGINE EXHAUST SYSTEM
PUMP BAYS 1 & 2
SCALE: 1/2" = 1'-0"

SECTION B
303 304
NEW ENGINE EXHAUST SYSTEM
PUMP BAYS 3 THRU 5
SCALE: 1/2" = 1'-0"



DETAIL 1
SCALE: 1" = 1'-0"

- NOTE:
- ALL EXHAUST PIPING INTERIOR TO BUILDING SHALL BE COVERED WITH 1" THICK REMOVABLE INSULATION BLANKETS.
 - BUILDING WALL PENETRATION BY EXHAUST PIPING TO BE COVERED WITH PIPE ESCUTCHEON AND PROPERLY SEALED TO BE WEATHER PROOF.
 - ALL ELEVATIONS ARE NAVD 88.



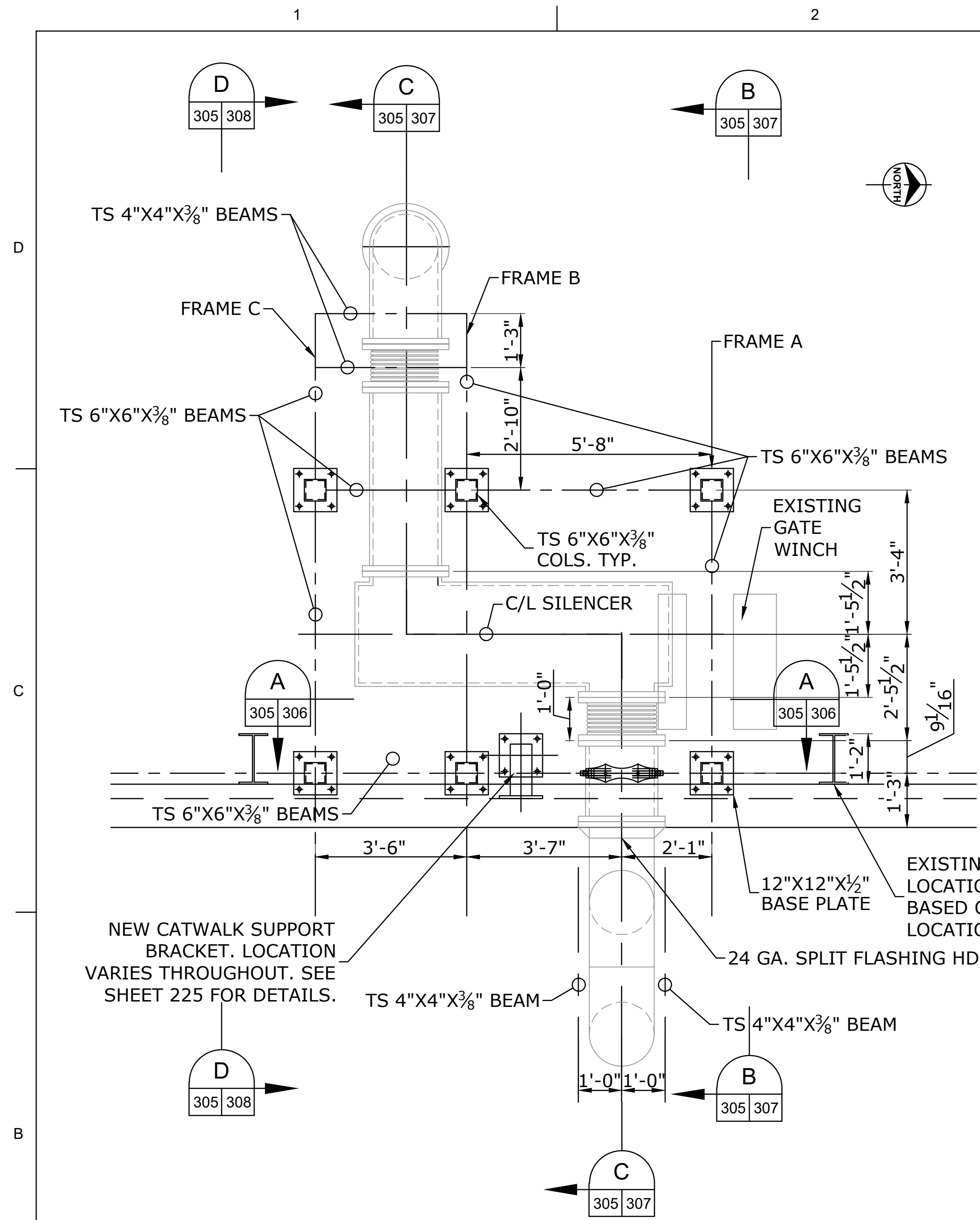
A

B

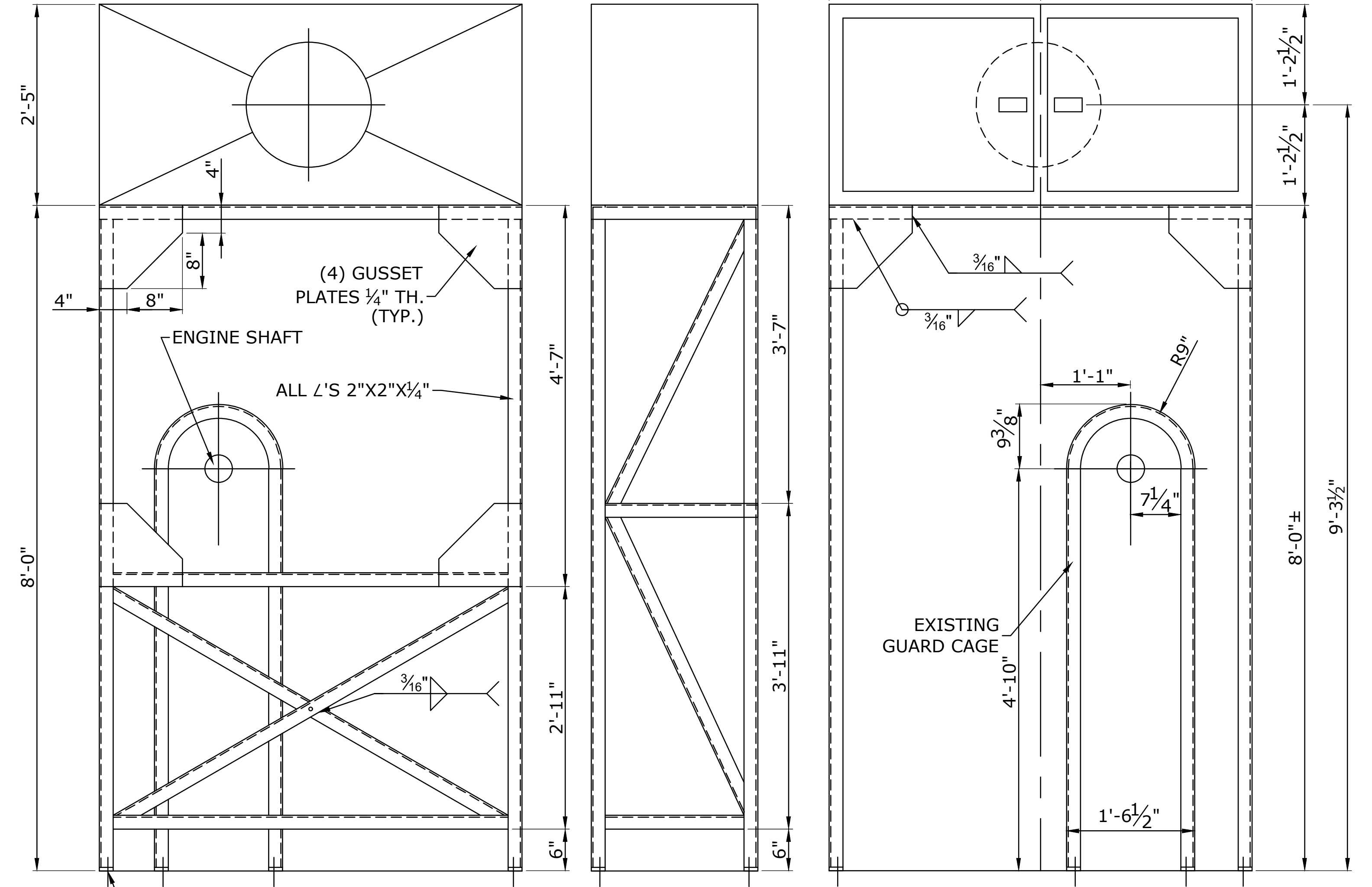
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D

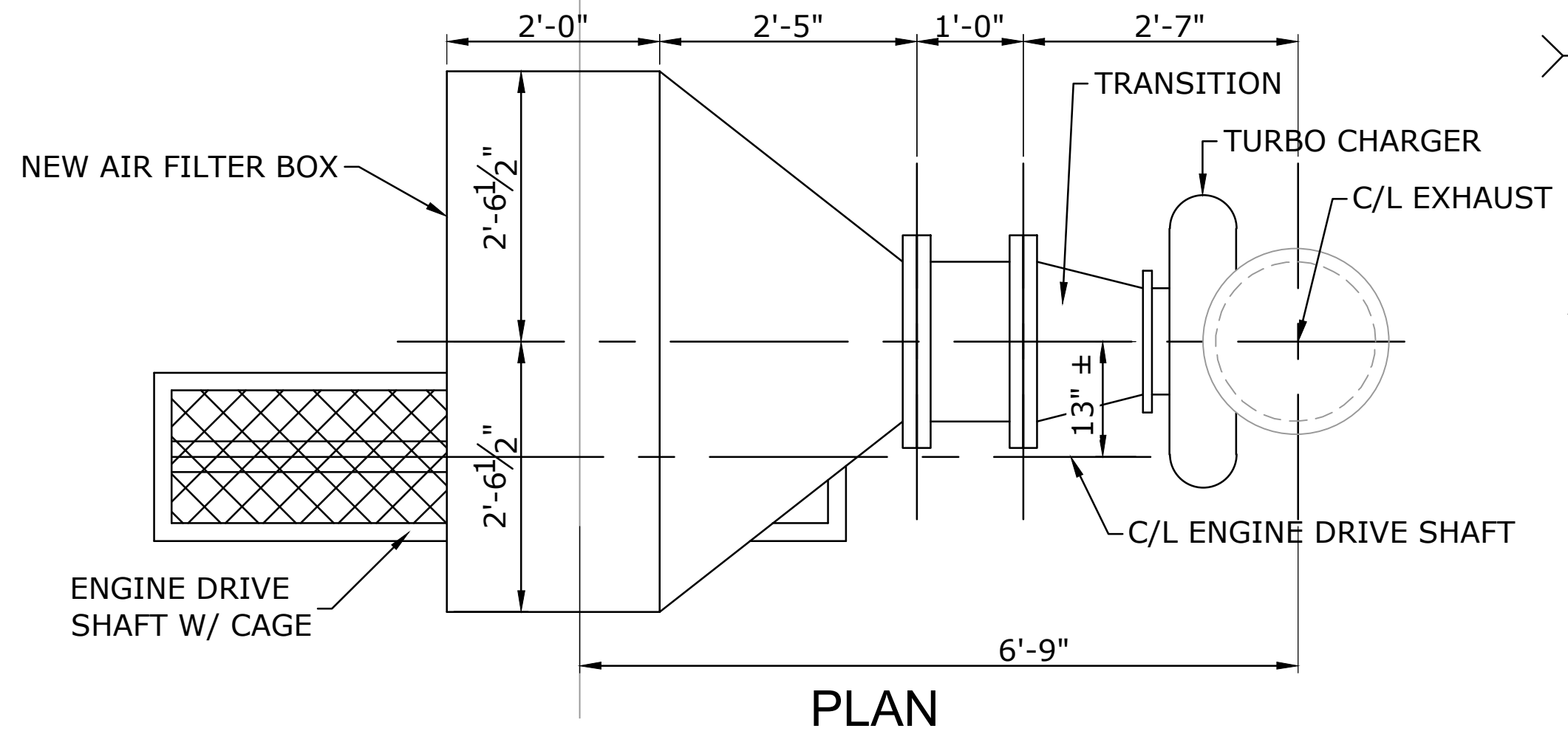
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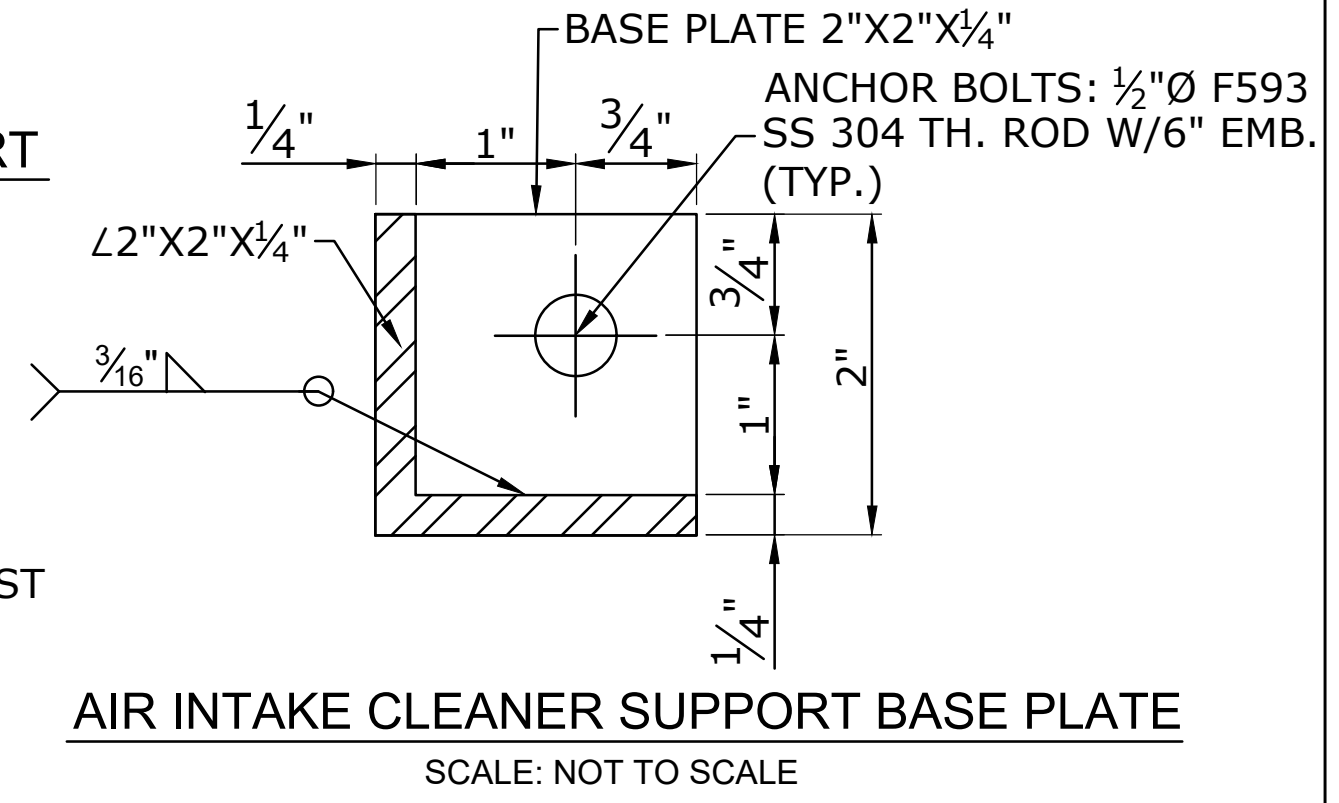
PLAN
NEW ENGINE EXHAUST SUPPORT
 TYPICAL OF ENGINE 1 AND 2 (3 THRU 5 OPPOSITE HAND)
 SCALE: 1/2" = 1'-0"



ELEVATION
NEW AIR INTAKE CLEANER SUPPORT
 SCALE: 1" = 1'-0"

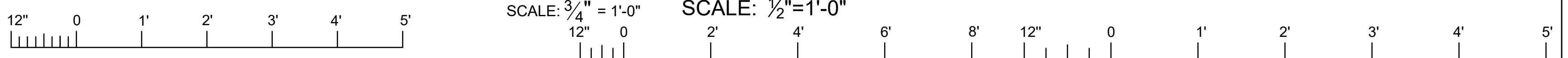


PLAN
NEW TWO-ELEMENT AIR CLEANER
 SCALE: 3/4" = 1'-0"
 (CAT MODEL 132-9327)
 SCALE: 1/2" = 1'-0"



AIR INTAKE CLEANER SUPPORT BASE PLATE
 SCALE: NOT TO SCALE

- NOTES ON CONCRETE CORING:**
1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
 2. FOR ALL LOCATIONS WHERE CORING INTO AND/OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ACHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAP THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSTION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
 3. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
 4. IF THE DRAWING GATE FRAMES AND LIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS AND SUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.



ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
NEW ENGINE EXHAUST AND AIR INTAKE SUPPORT

DESIGNED BY: E.M.	CHECKED BY: E.M.	DRAWN BY: E.M.	APPROVED BY: E.M.	DATE: 06/03/2021
PROJECT NO. PA-20-08-008		FILE NAME		

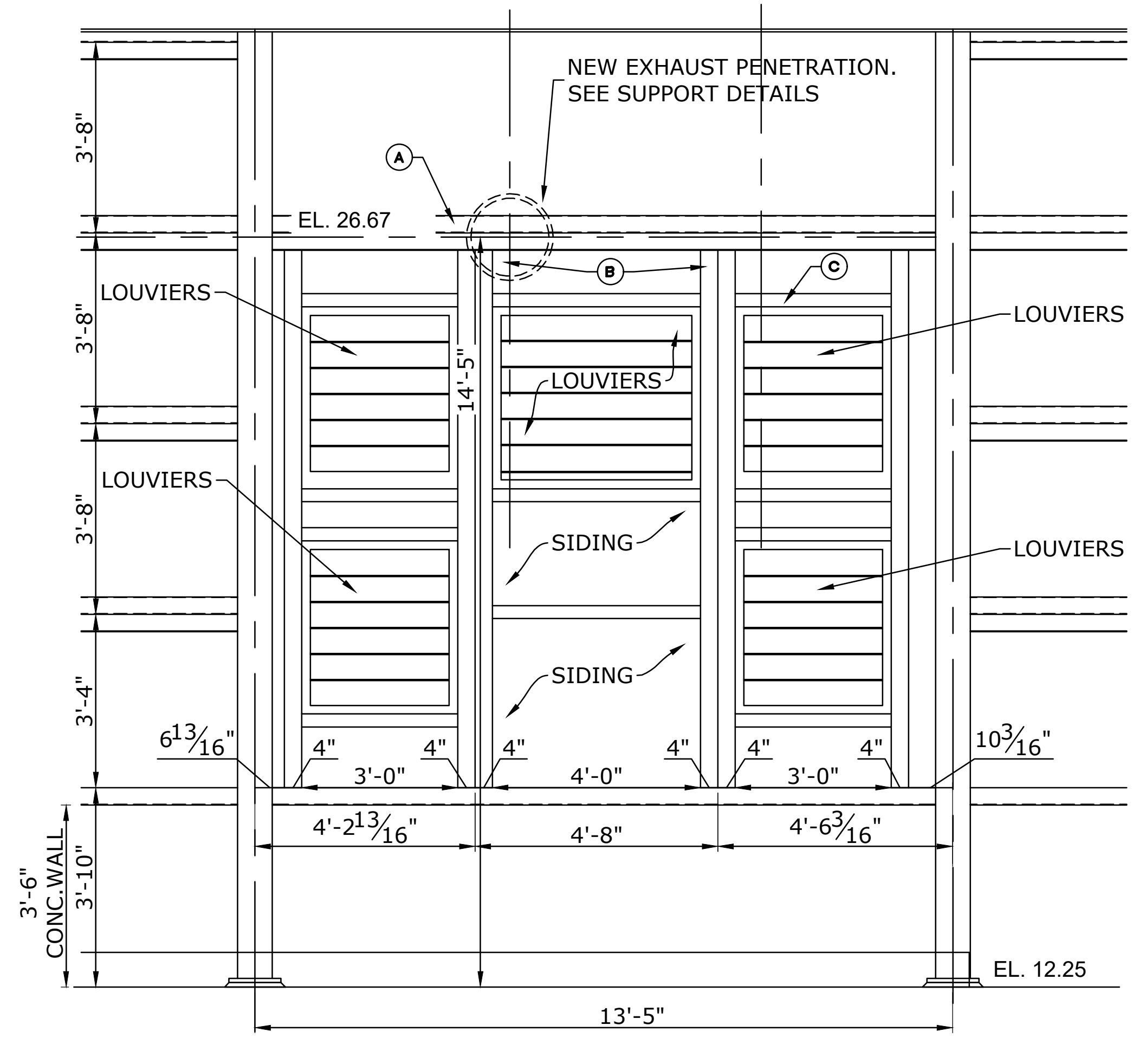
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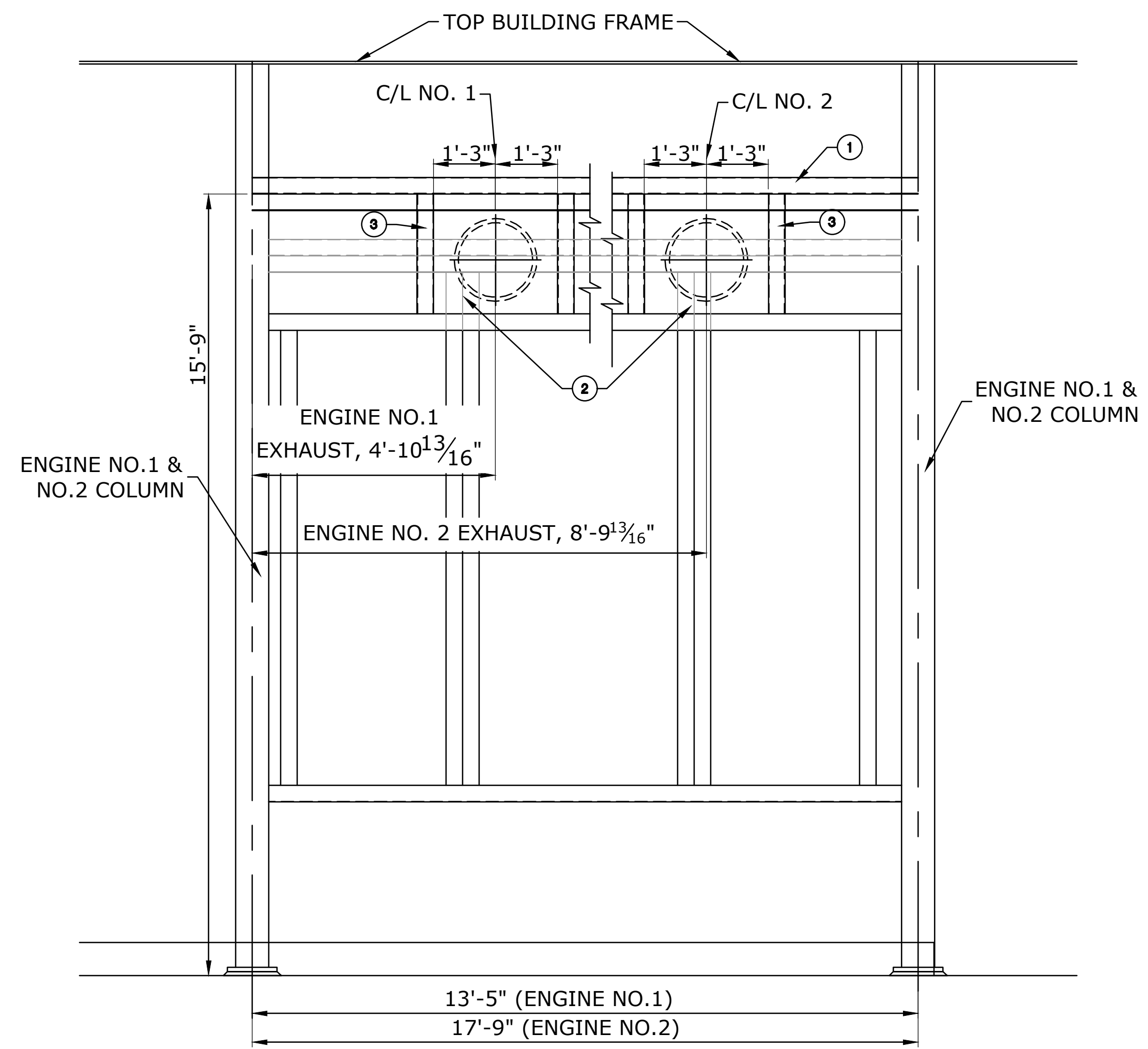
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ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PLAN
 NEW ENGINE EXHAUST AND AIR INTAKE SUPPORT

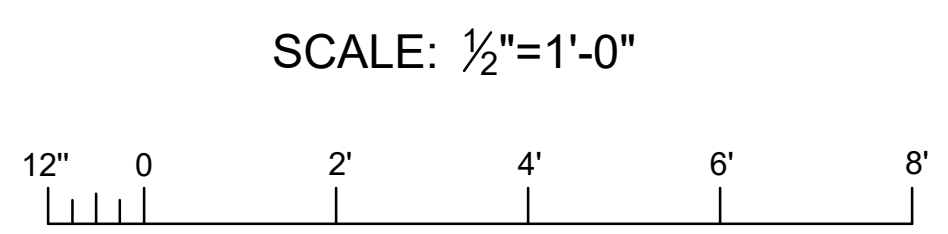
SHEET IDENTIFICATION
 305



ELEVATION
EXISTING EAST WALL CONFIGURATION
AT NEW EXHAUST PENETRATION
 TYPICAL OF PUMP 1 & 2 (3 THRU 5 OPPOSITE HAND)
 SCALE: 1/2" = 1'-0"



ELEVATION
EAST WALL FRAMING RECONFIGURATION
AT NEW EXHAUST PENETRATION
 TYPICAL OF PUMP 1 & 2 (3 THRU 5 SIMILAR)
 SCALE: NOT TO SCALE



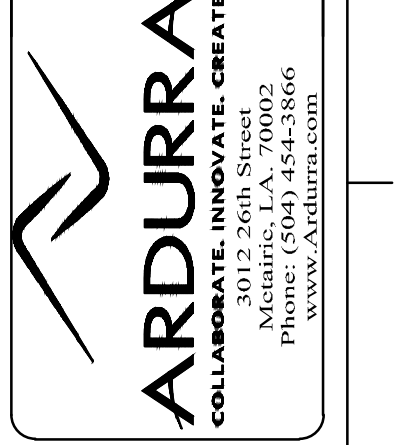
- BUILDING WALL FRAMING RECONFIGURATION NOTES:**
1. RELOCATE GIRT FRAME (A) ABOVE EXHAUST PIPE TO 15'-9" ABOVE FLOOR AND RE-ATTACH TO BUILDING COLUMNS AND SIDING.
 2. CUT THE (2) VERTICAL GIRT FRAMES DOWN TO TOP OF HORIZONTAL TOP OF WINDOW GIRT FRAMES (C) AND USE CUT (B) GIRTS TO RIGIDLY CONNECT ALL THREE TOP OF WINDOW GIRT SEGMENTS TOGETHER.
 3. BOX AROUND NEW EXHAUST PENETRATION WITH TWO VERTICAL (3) GIRTS AND CONNECT TOP AND BOTTOM OF VERTICAL GIRTS TO HORIZONTAL GIRTS (A) AND (C).
 4. CUT HOLE FOR EXHAUST PIPE PENETRATION.

NOTE:
 1. ALL ELEVATIONS ARE NAVD 88.



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	REVISION DESCRIPTION	NO.

DESIGNED BY:	CHECKED BY:	DATE:
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PROJECT NO.:	FILE NAME:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

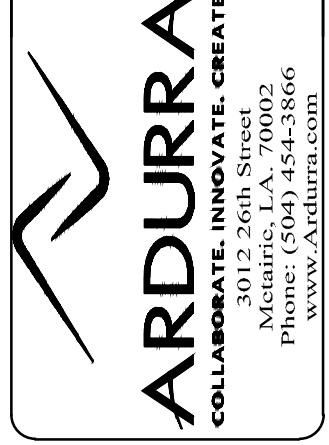
ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELEVATION
 EAST WALL CONFIGURATION

SHEET
 IDENTIFICATION
 305A



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NO.
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BY

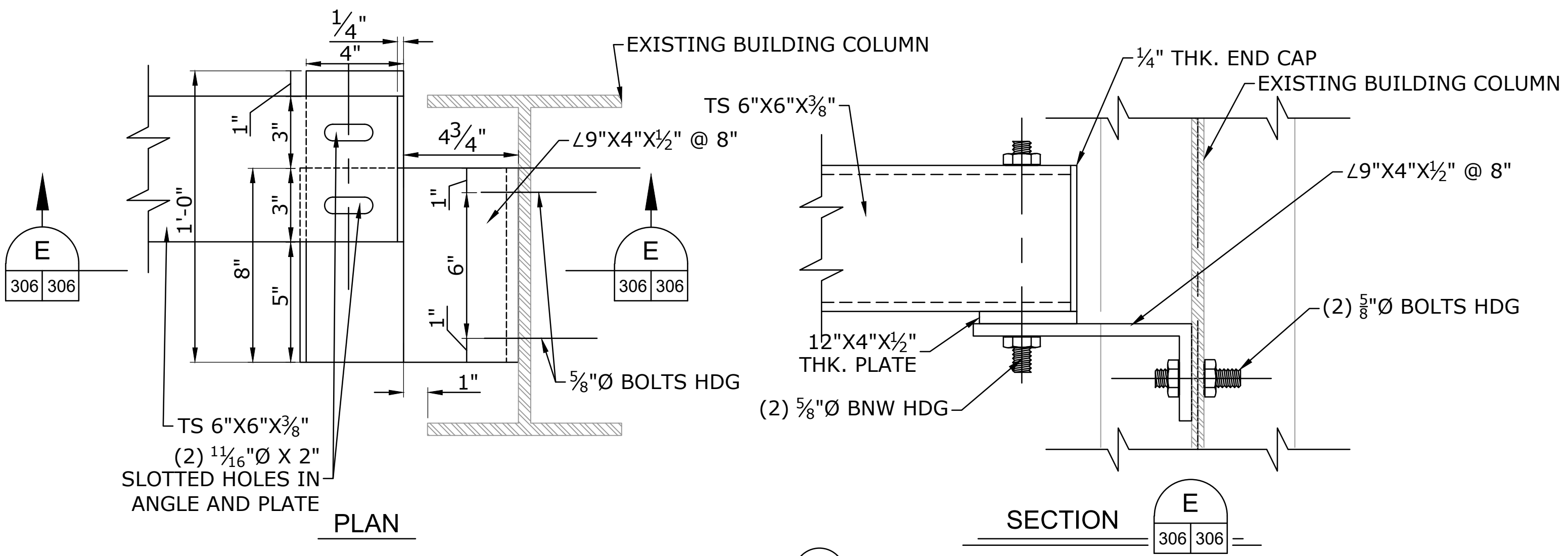
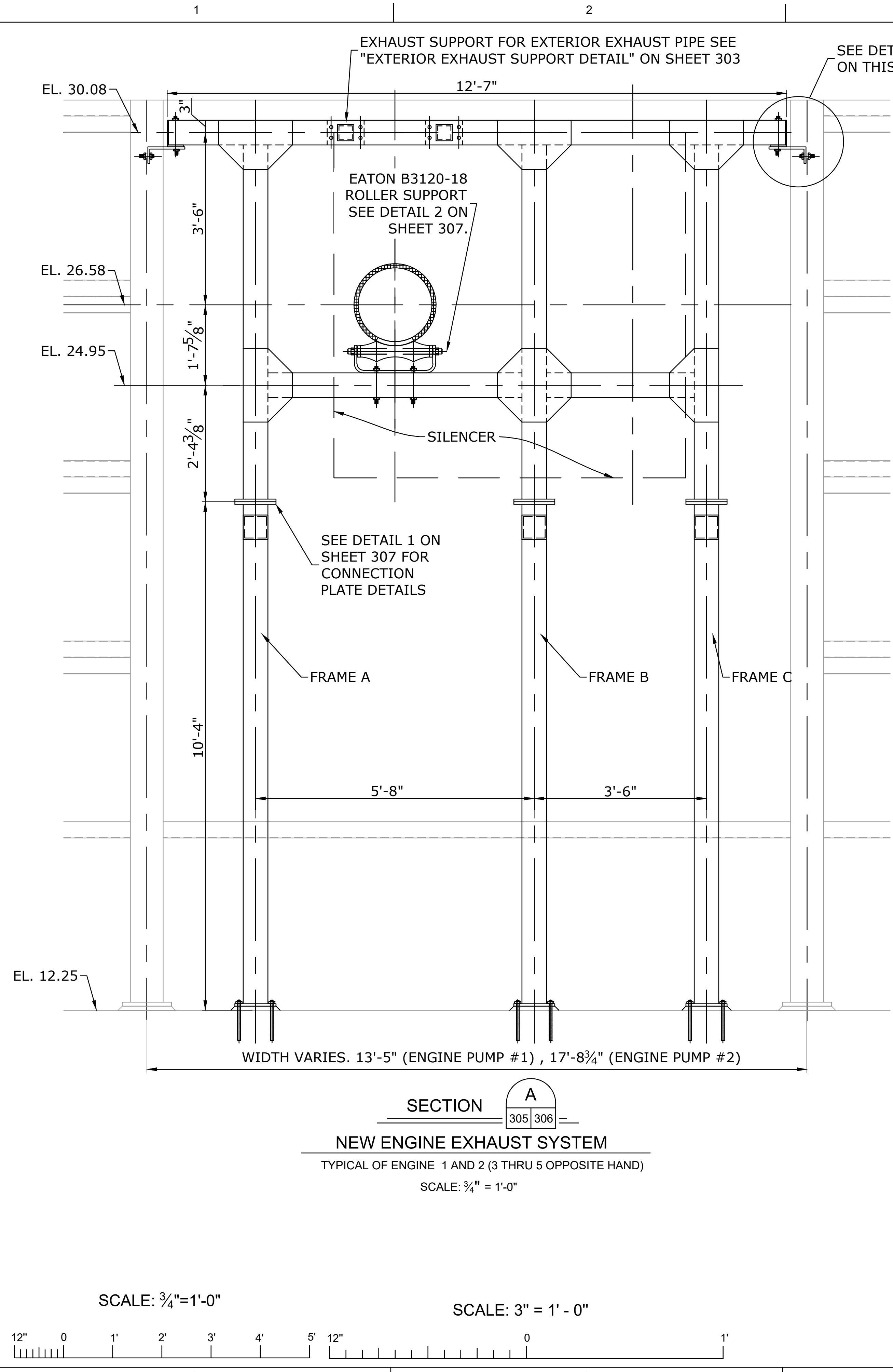
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PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEVATION
NEW ENGINE EXHAUST SYSTEM

SHEET IDENTIFICATION
306

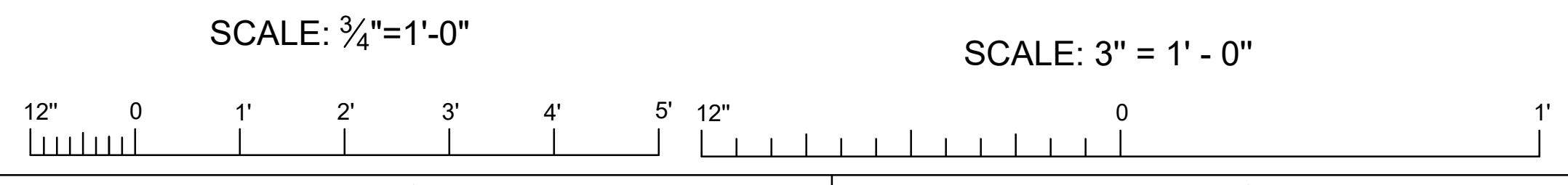


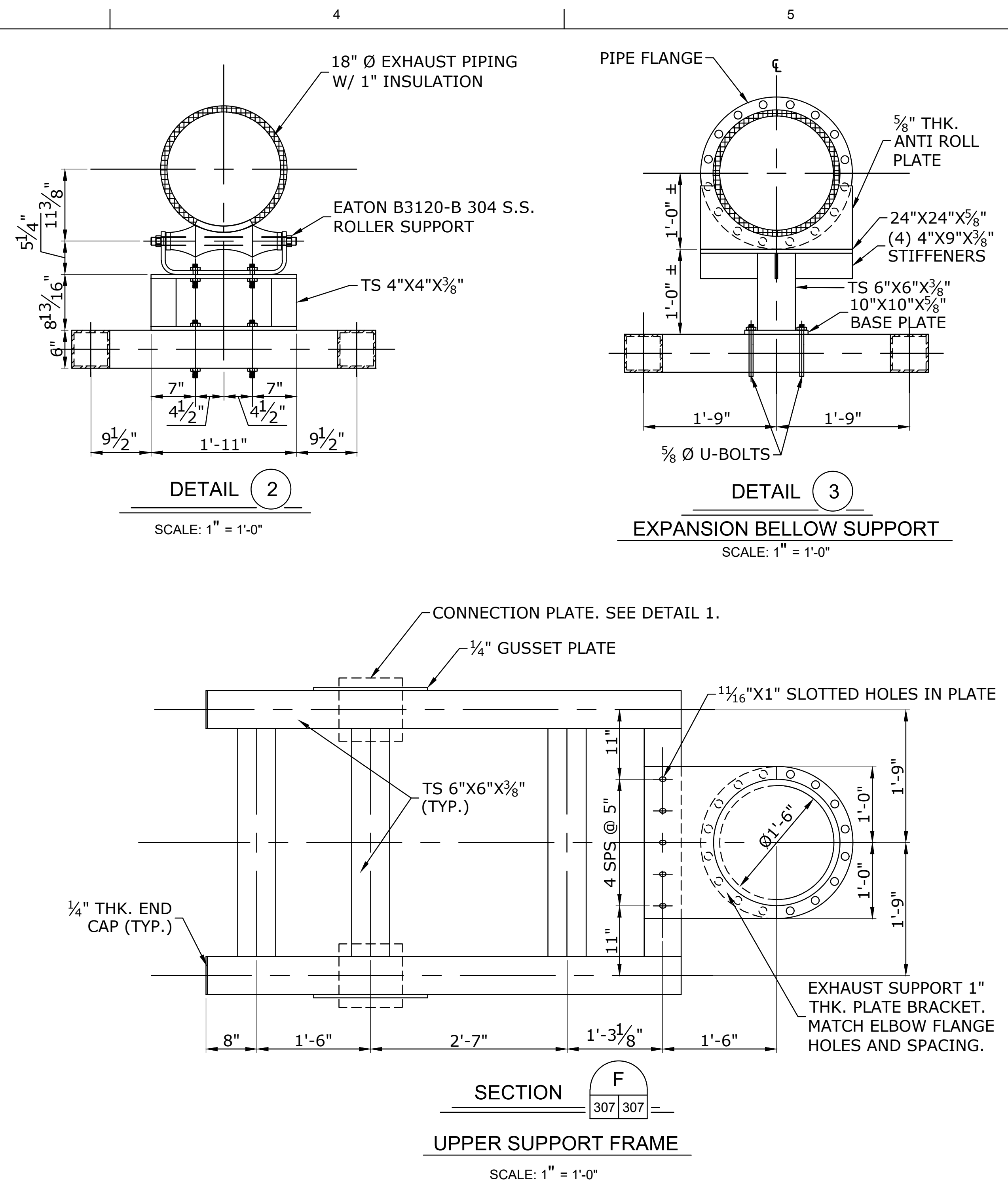
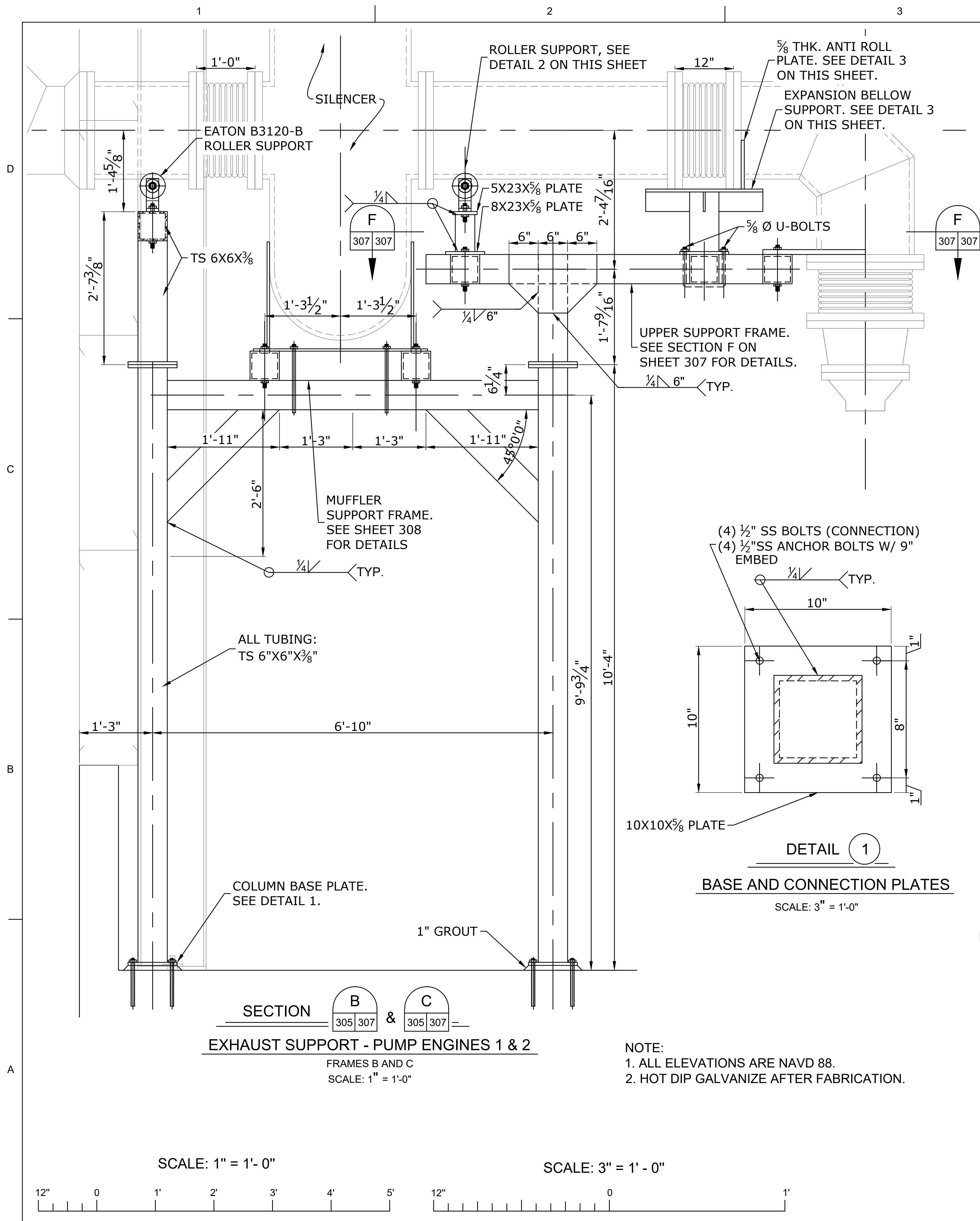
DETAIL 1
UPPER WALL SUPPORT ASSEMBLY END
TIE-IN TO BUILDING COLUMNS
SCALE: 3" = 1'-0"

NOTES ON CONCRETE CORING:

1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
2. FOR ALL LOCATIONS WHERE CORING INTO AND /OR THRU THE EXISTING CONCRETE SLAB AND WALL TO ANCHOR FRAMES, ANCHOR BOLTS, PASS UTILITY PIPING AND ELECTRICAL CONDUITS, USE GROUND PENETRATING RADAR TO LOCATE AND MAO THE EXACT LOCATION AND DEPTH OF THE EMBEDDED REBAR, PIPING AND CONDUITS. CONTRACTOR SHALL PERFORM GPR ONM THE TOP AND BOTTOM OF THE PUMPING STATION OPERATING DECK SLAB, BEAMS AND SUBSTRUCTURE TO EXACTLY MAP AND LOCATE ALL EMBEDDED ELEMENTS. CONTRACTOR SHALL FIELD MODIFY POSTION OF ALL REQUIRED CORINGS TO MISS EXISTING REBAR AND OTHER EMBEDMENTS.
3. CONTRACTOR SHALL SUBMIT FOR ENGINEER'S APPROVAL THE MAPPED REBAR PLAN SHOWING THE C/L OF ALL CORINGS WITH DIMENSIONS TO AN OBVIOUS BASE LINE SUCH AS ENGINE OR RAISED PUMP GEAR BOX SLAB BEFORE CORING COMMENCES.
4. IF THE DRAWING GATE FRAMES ANDLIFTING SYSTEM LOCATION CHANGES, CONTRACTOR SHALL MODIFY ALL FRAME ANCHORS LOCATION DIMENSIONS ANDSUBMIT FOR ENGINEERS APPROVAL PRIOR TO COMMENCING CORING DRILLING.

NOTE:
1. ALL ELEVATIONS ARE NAVD 88.





- NOTES ON CONCRETE CORING:**
1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
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NOTE:
1. ALL ELEVATIONS ARE NAVD 88.
2. HOT DIP GALVANIZE AFTER FABRICATION.

ISSUED FOR CONSTRUCTION

REVISION DESCRIPTION NO. DATE BY

DESIGNED BY: EJM
CHECKED BY: EJM
APPROVED BY: EJM

PLOT SCALE: AS SHOWN
PROJECT NO. PA-20-06-088
FILE NAME:

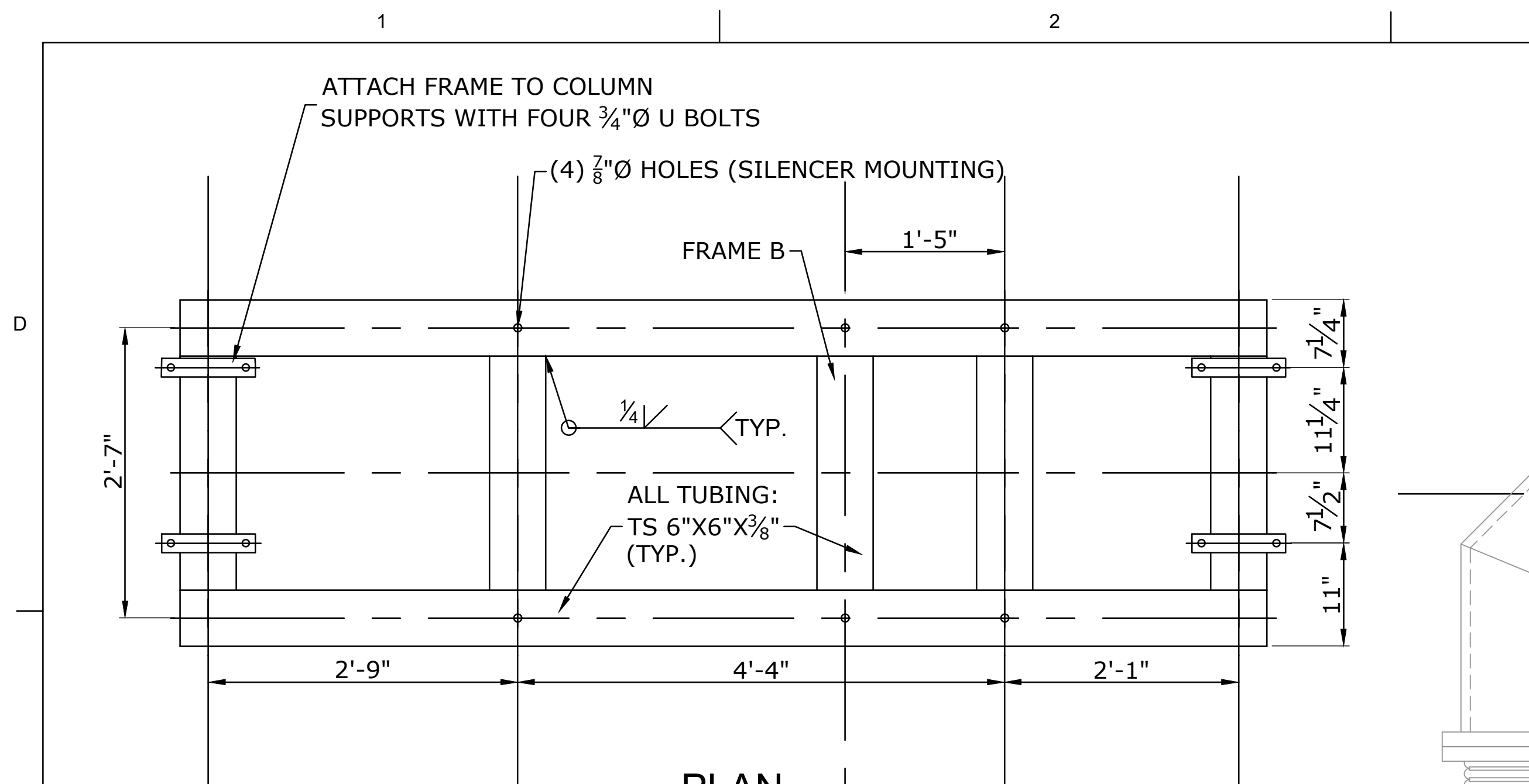
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MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

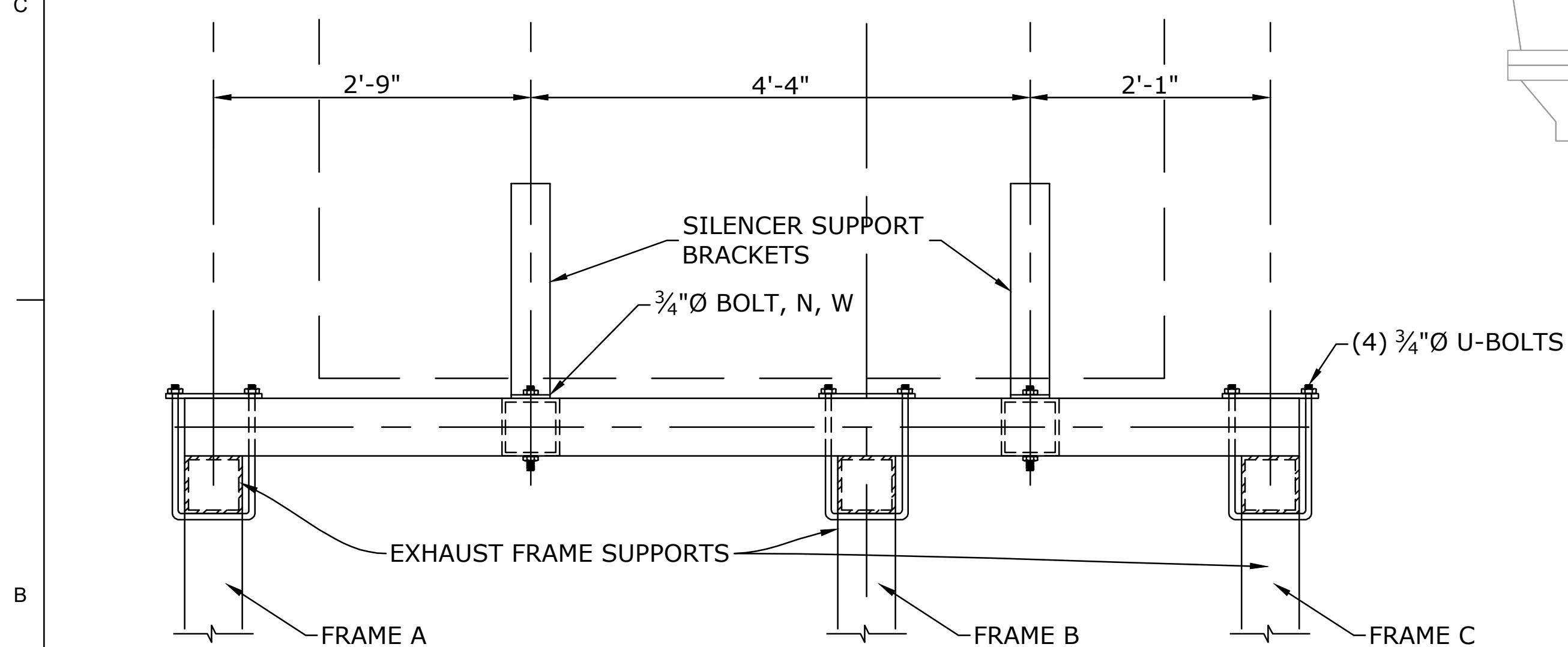
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
EXHAUST SUPPORT
PUMP ENGINES 1 & 2

SHEET IDENTIFICATION
307

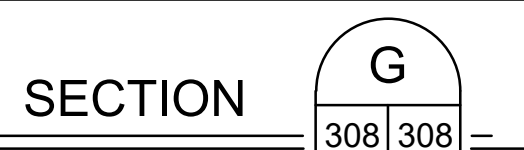


PLAN
MUFFLER SUPPORT FRAME

SCALE: 1" = 1'-0"



ELEVATION - MUFFLER SUPPORT FRAME

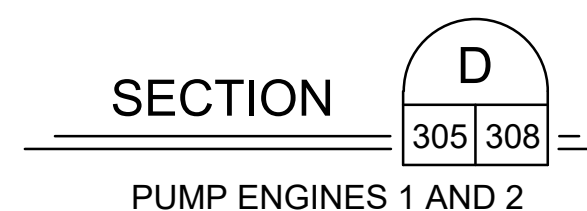
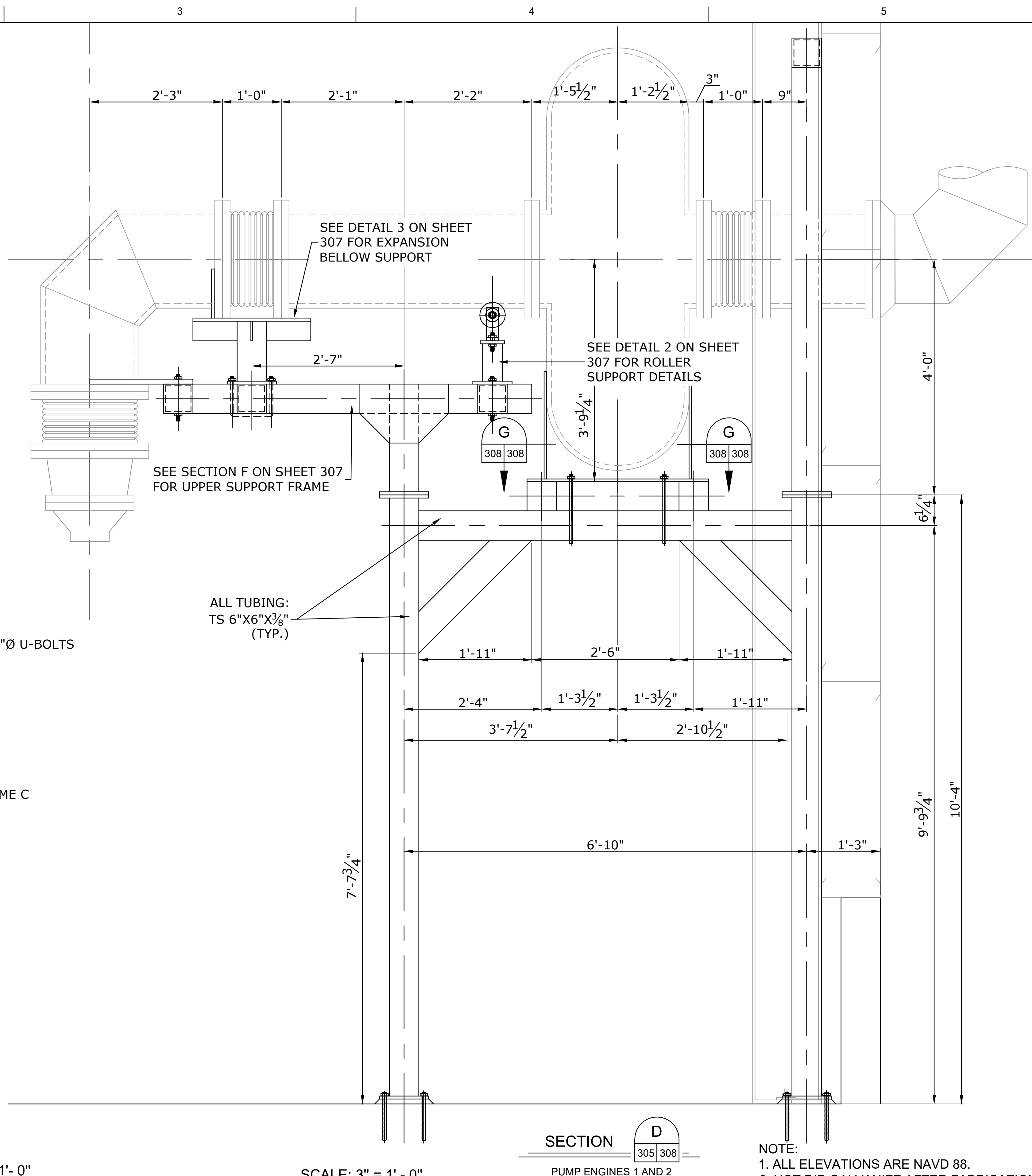


SCALE: 1" = 1'-0"

NOTES ON CONCRETE CORING:

1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
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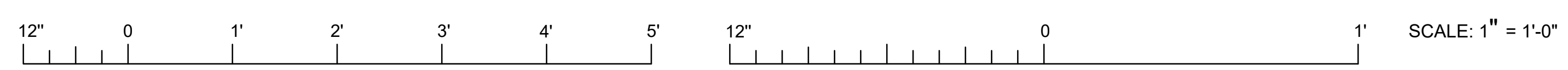
SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

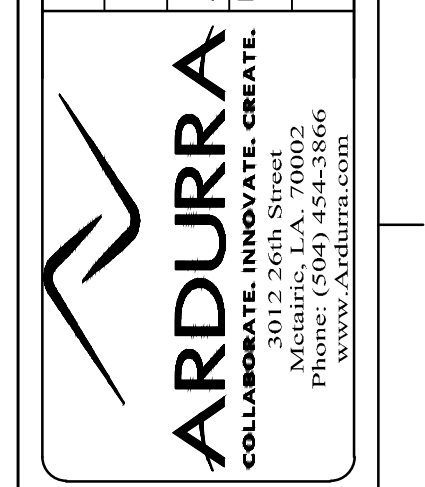
PUMP ENGINES 1 AND 2

- NOTE:**
1. ALL ELEVATIONS ARE NAVD 88.
 2. HOT DIP GALVANIZE AFTER FABRICATION.



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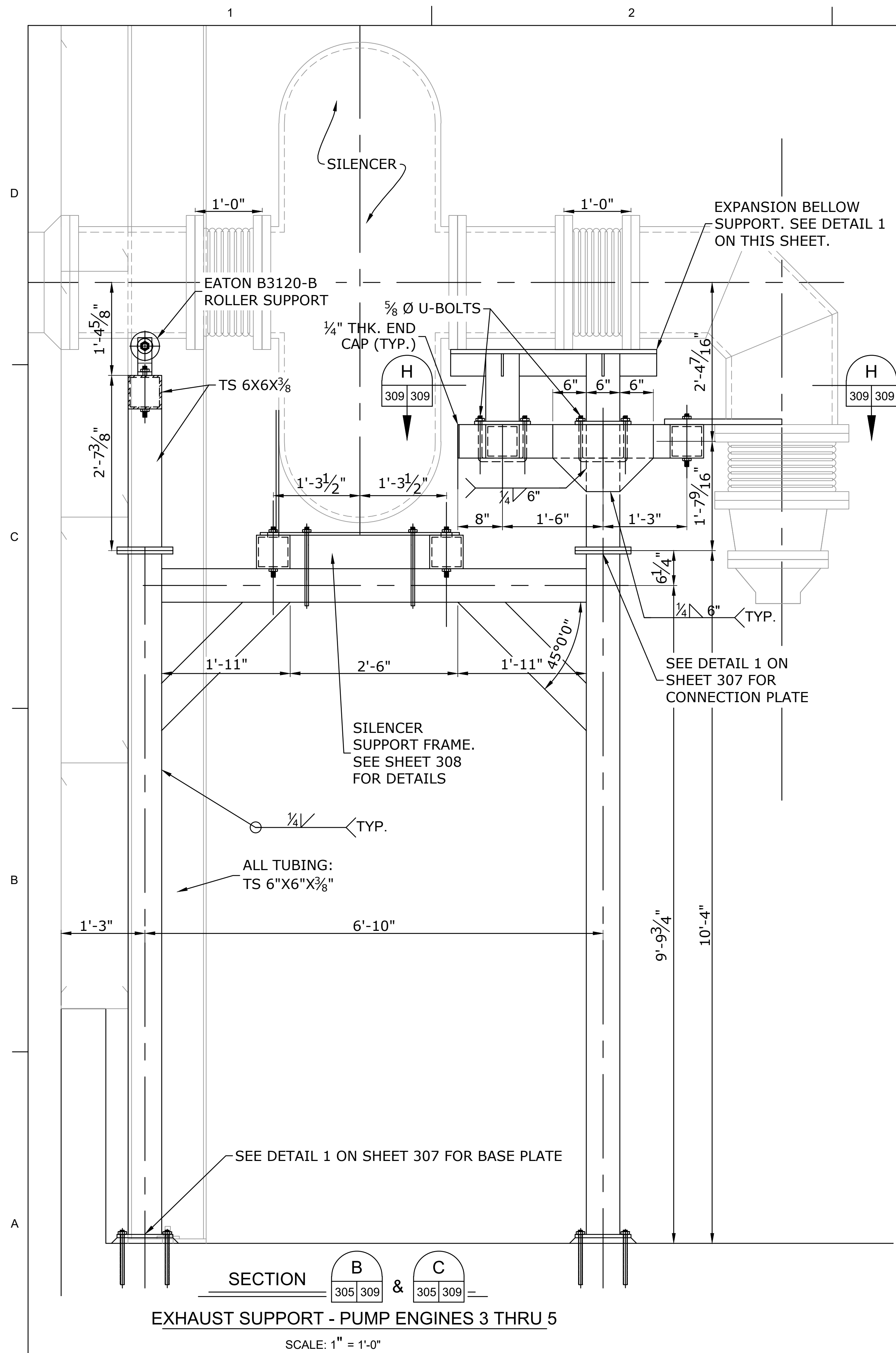
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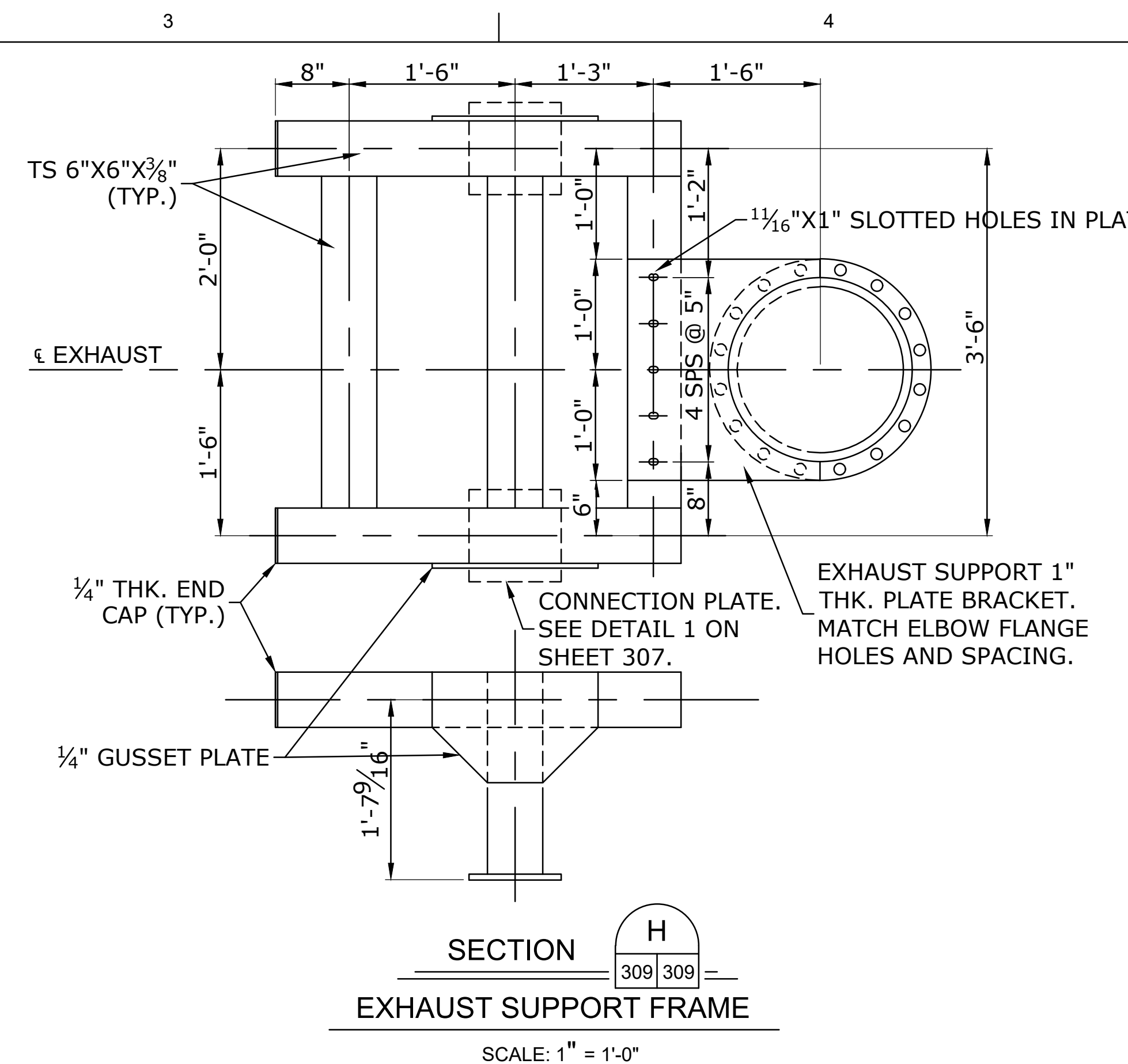
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
EXHAUST SUPPORT
PUMP ENGINES 1 & 2

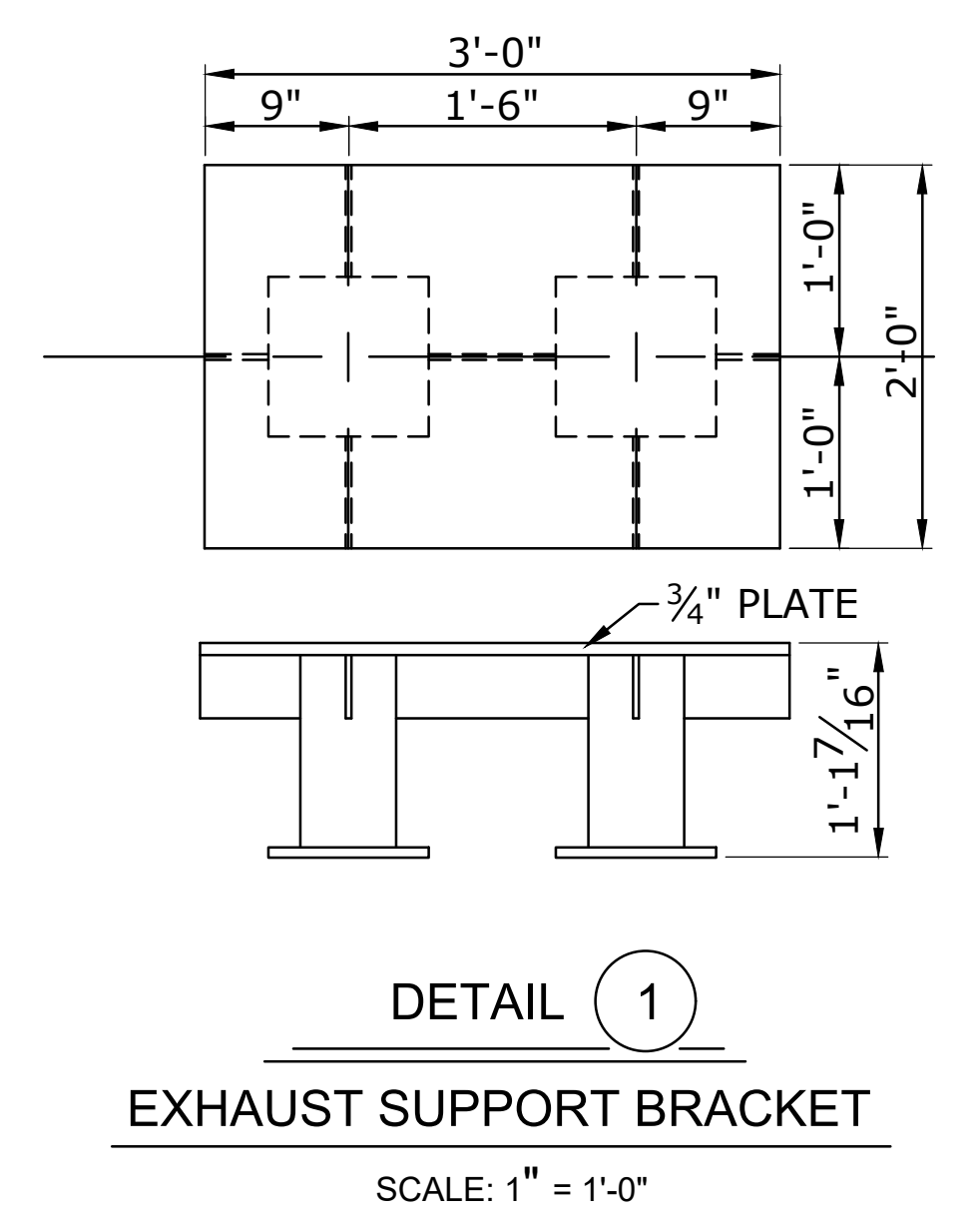
SHEET IDENTIFICATION
308



SECTION B 305 309 & C 305 309
EXHAUST SUPPORT - PUMP ENGINES 3 THRU 5
 SCALE: 1" = 1'-0"



SECTION H 309 309
EXHAUST SUPPORT FRAME
 SCALE: 1" = 1'-0"

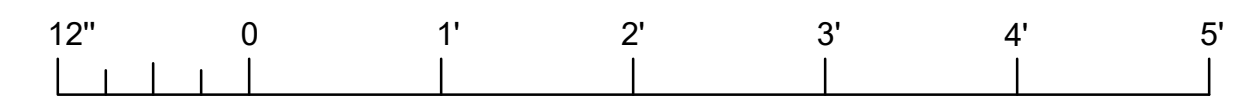



DETAIL 1
EXHAUST SUPPORT BRACKET
 SCALE: 1" = 1'-0"

NOTES ON CONCRETE CORING:

1. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL DRILLING AND CORING TO NOT DAMAGE ANY REBAR, PIPING AND CONDUITS IN EXISTING STATION CONCRETE STRUCTURE.
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NOTE:
 1. ALL ELEVATIONS ARE NAVD 88.
 2. HOT DIP GALVANIZE AFTER FABRICATION.





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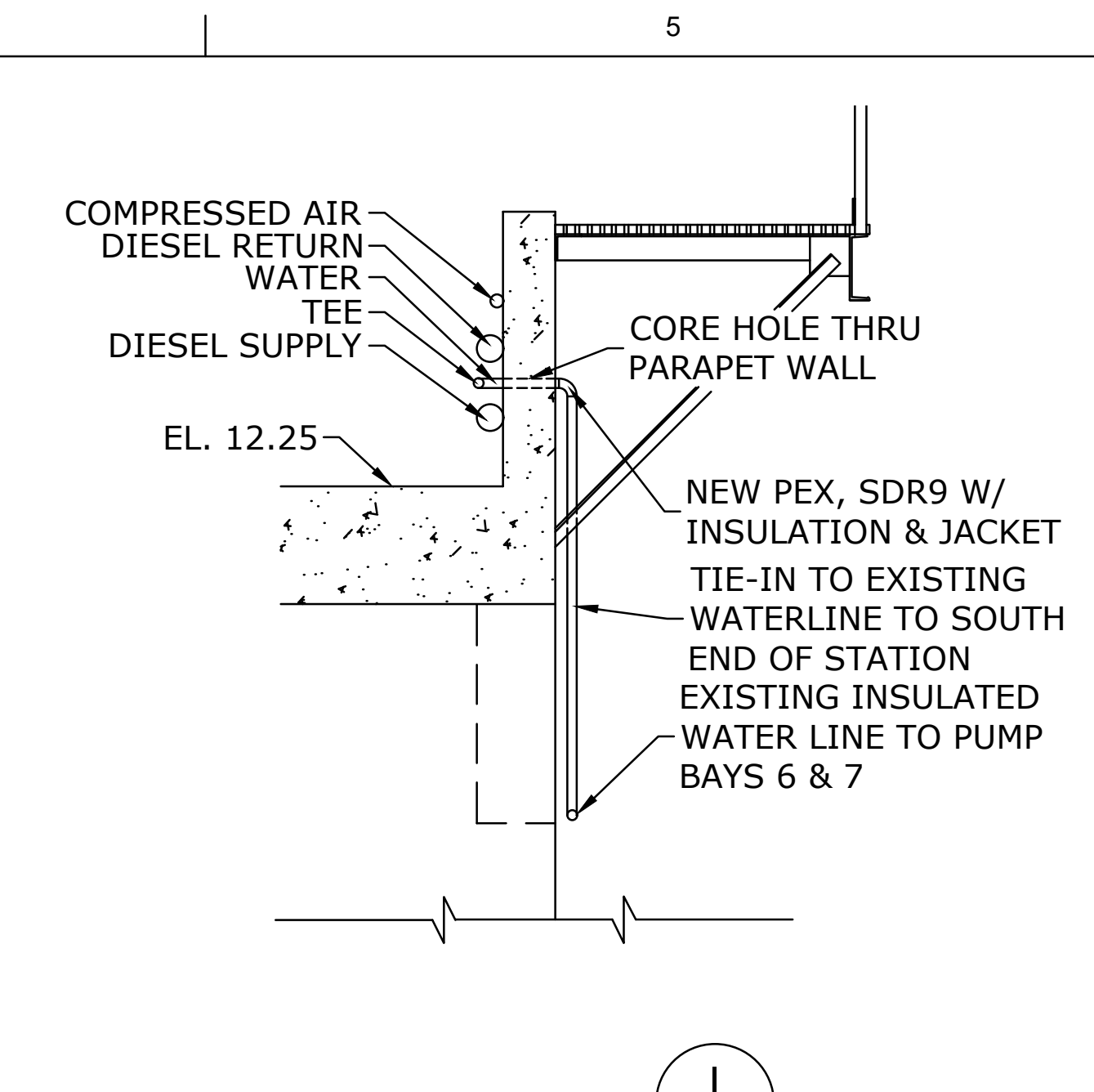
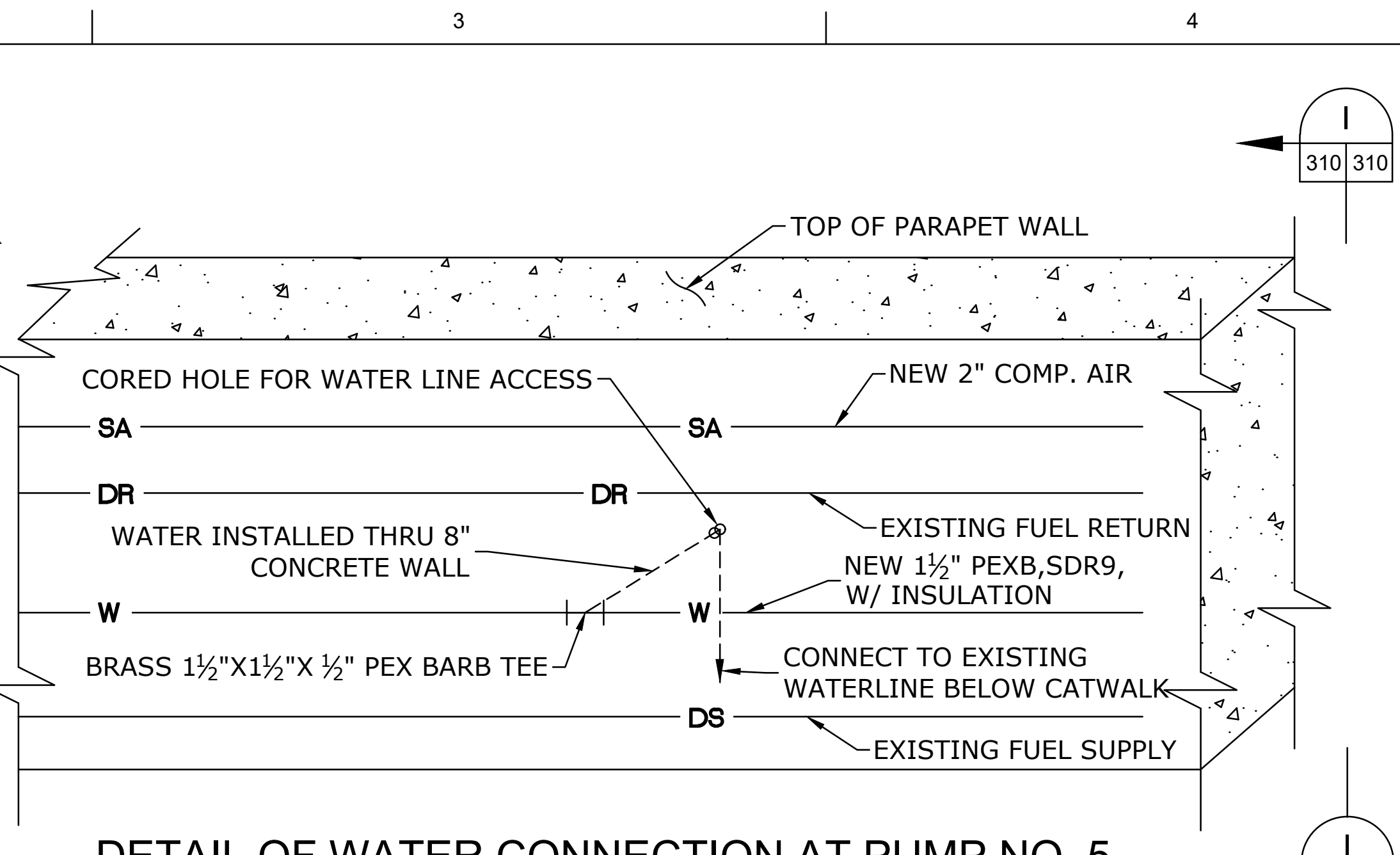
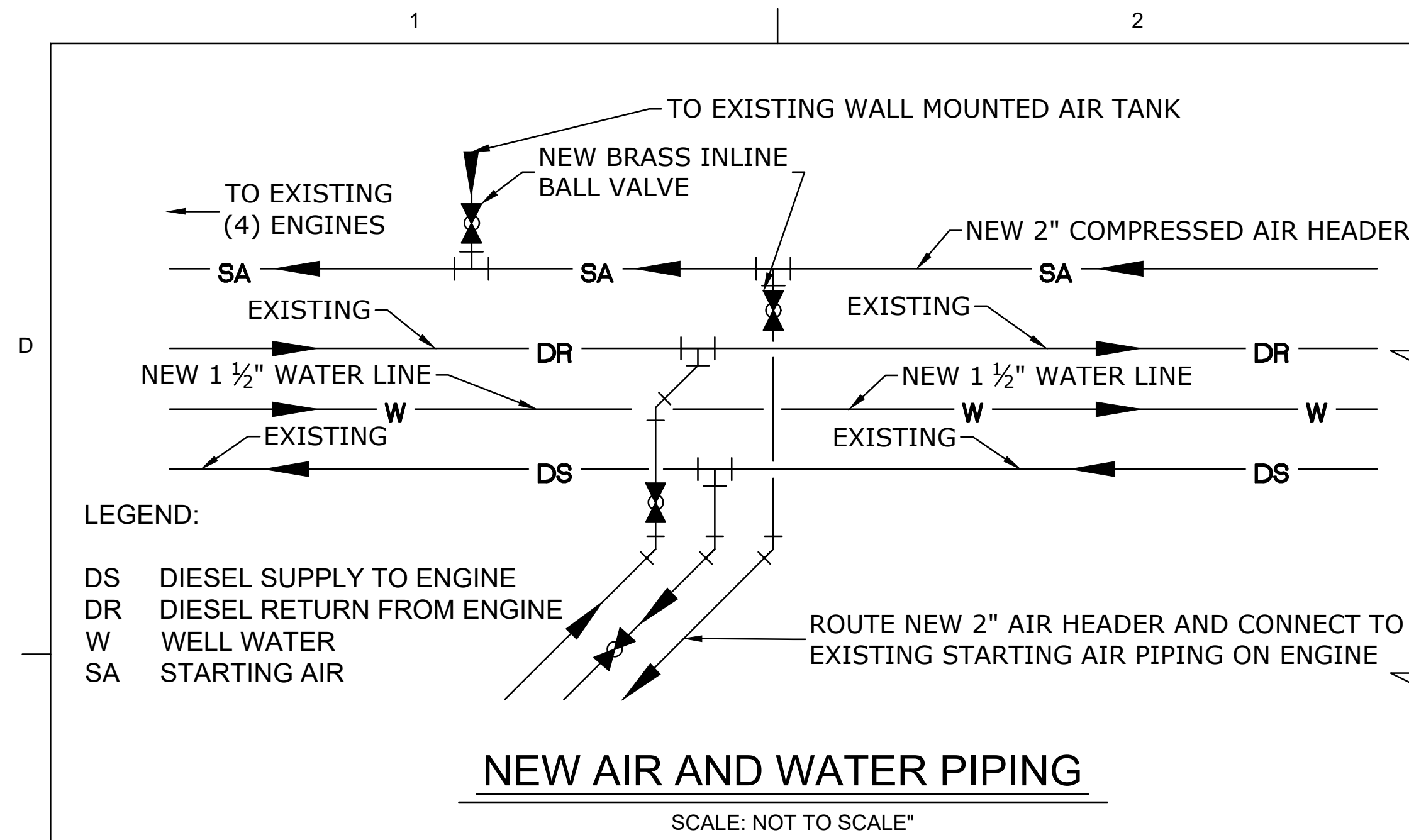
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MARVIN BRAUD PUMP STATION
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ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 EXHAUST SUPPORT
 PUMP ENGINES 1 & 2

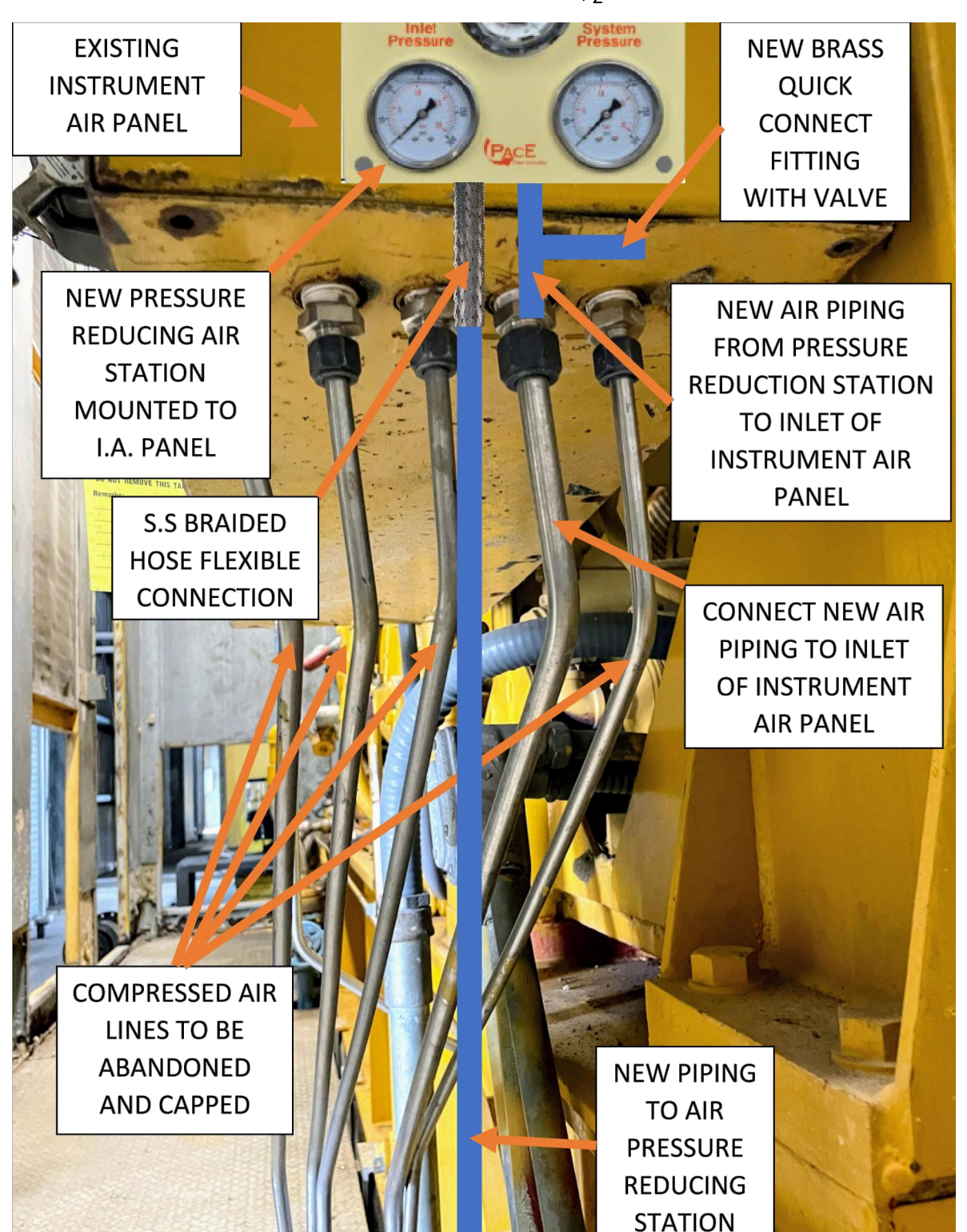
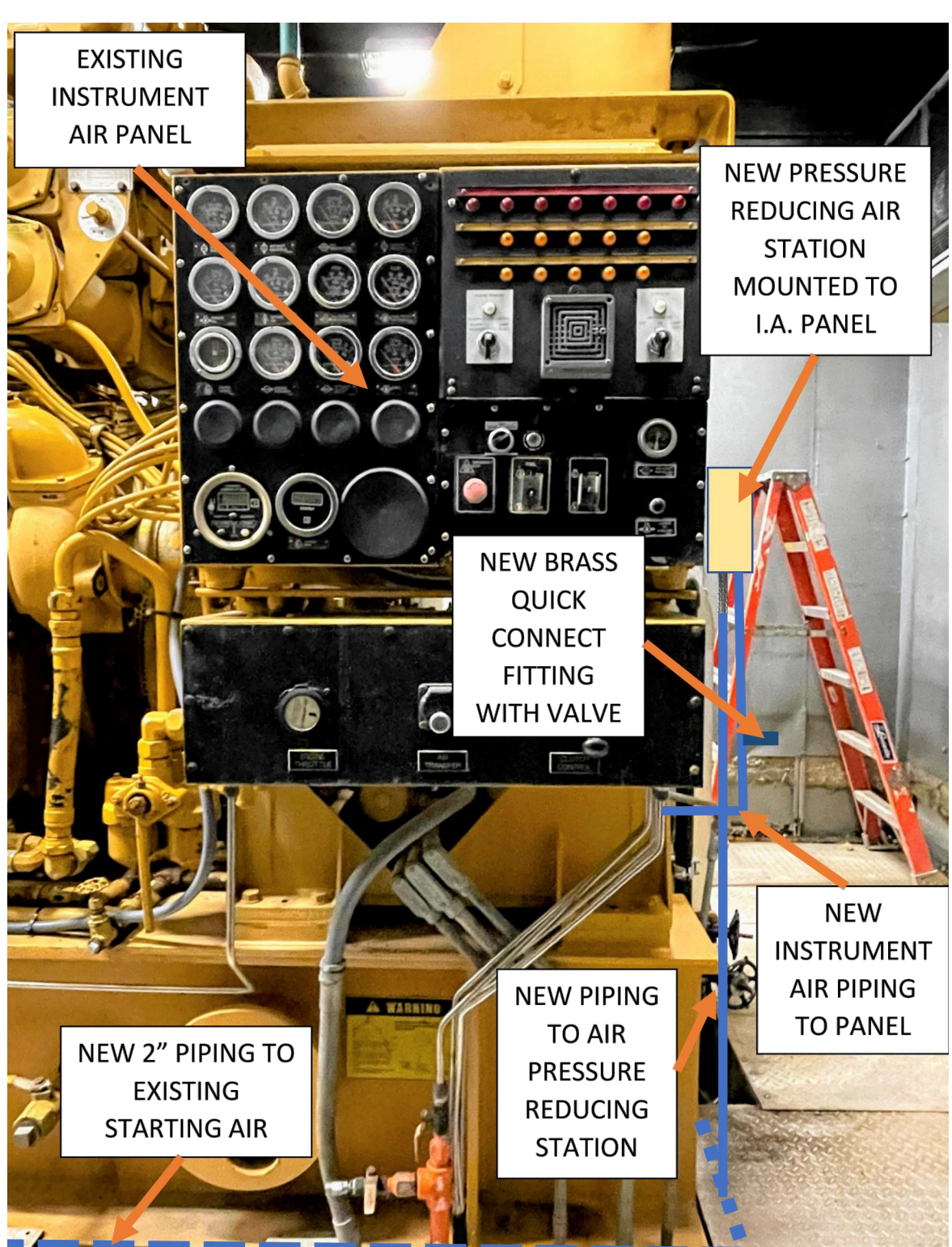
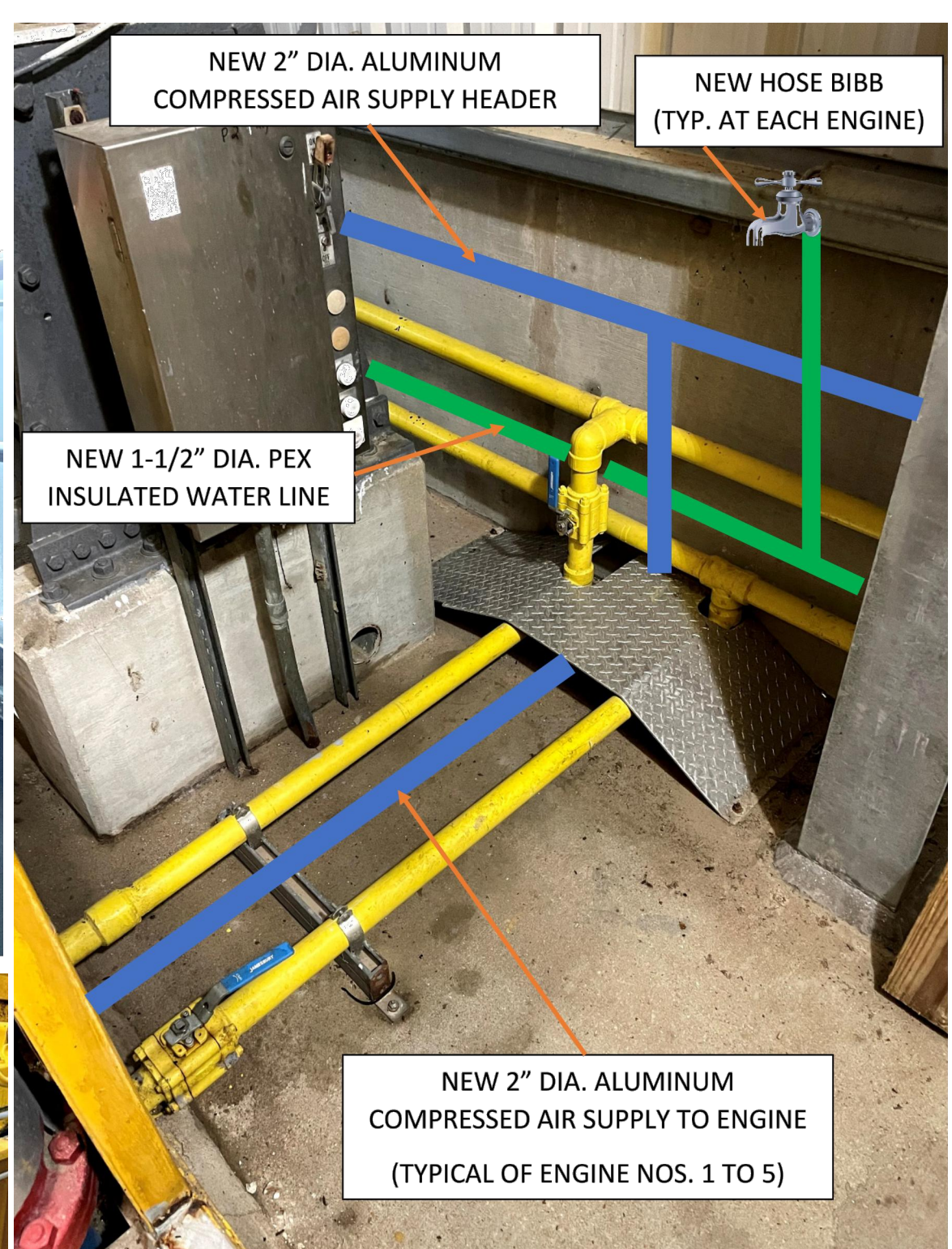
SHEET IDENTIFICATION
309



LEGEND:
 DS DIESEL SUPPLY TO ENGINE
 DR DIESEL RETURN FROM ENGINE
 W WELL WATER
 SA STARTING AIR

SCALE: NOT TO SCALE"

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

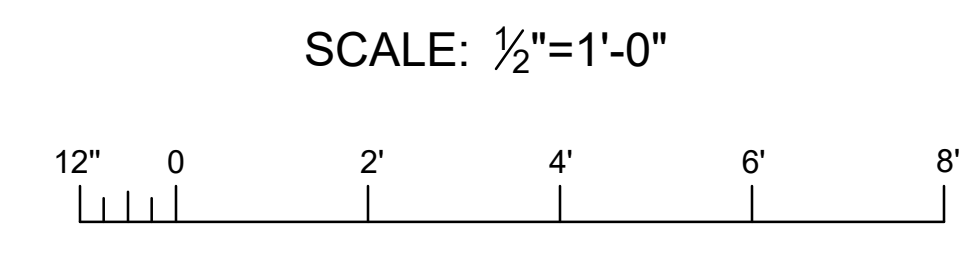


TYPICAL OF ENGINES NOS. 1 - 5

TYPICAL OF ENGINES NOS. 1 - 5

TYPICAL OF ENGINES NOS. 1 - 5

- NOTES:
1. LOCATE NEW AIR PIPING BENEATH CHECKERED PLATE ON OPERATING FLOOR ALONGSIDE FUEL PIPING.
 2. AIR PIPING TO BE SECURED TO FLOOR WITH PIPE CLAMPS.
 3. NEW AIR PIPING TO BE RIGID GRADE 6063 ALUMINUM WITH T5 THERMAL HARDNESS TREATMENT.
 4. NEW WATER LINE TO BE 1 1/2" PEX TUBING, SDR 9 WITH 1/2" FOAM INSULATION.
 5. NEW WATER LINE TO BE SUPPORTED HORIZONTALLY EVERY 48".
 6. NEW AIR PIPING TO BE SUPPORTED EVERY 9".



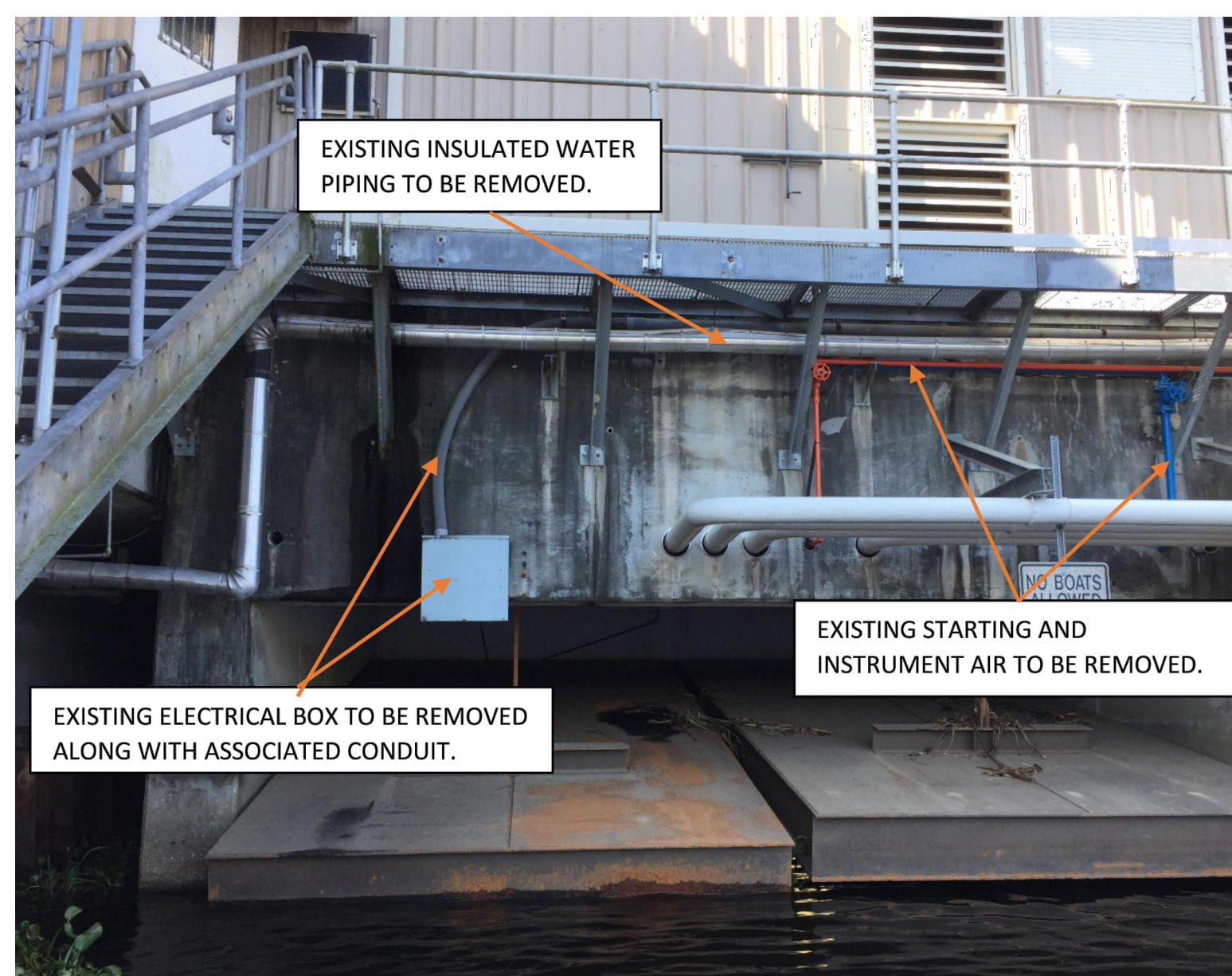
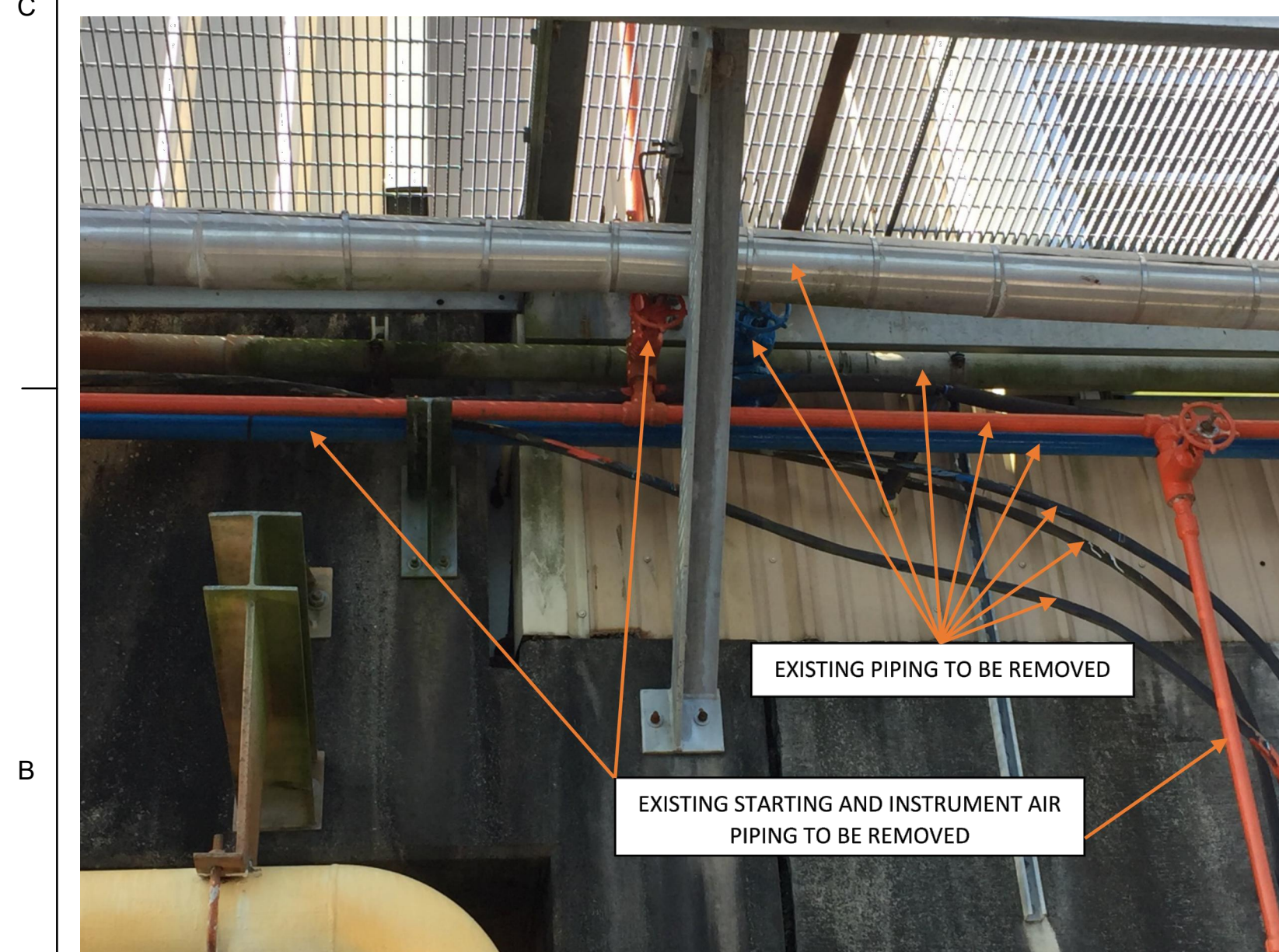
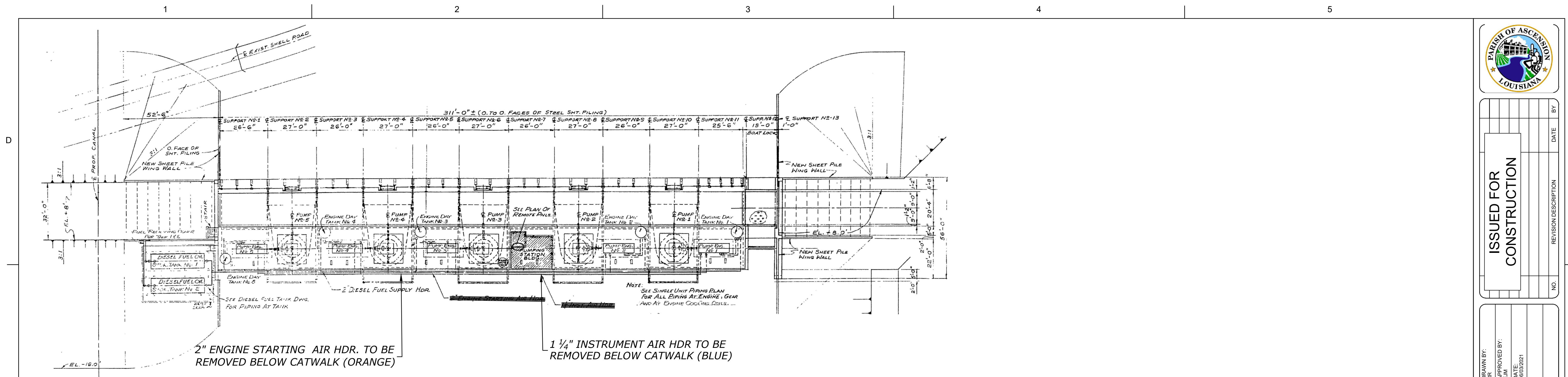
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MARVIN BRAUD PUMP STATION
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ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 PIPING ALTERATIONS
 MECHANICAL

SHEET IDENTIFICATION
 310

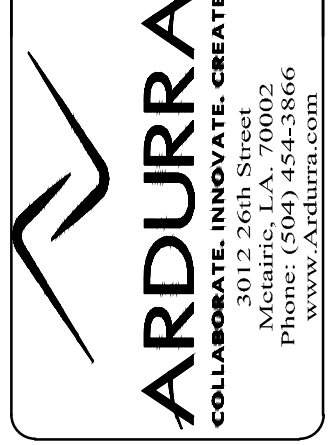


NOTES: EXISTING PENETRATIONS THROUGH OPERATING FLOOR SLAB OF REMOVED PIPING SHALL BE SEALED WITH SAND-CEMENT NON SHRINK GROUT



NO.	REVISION DESCRIPTION	DATE	BY

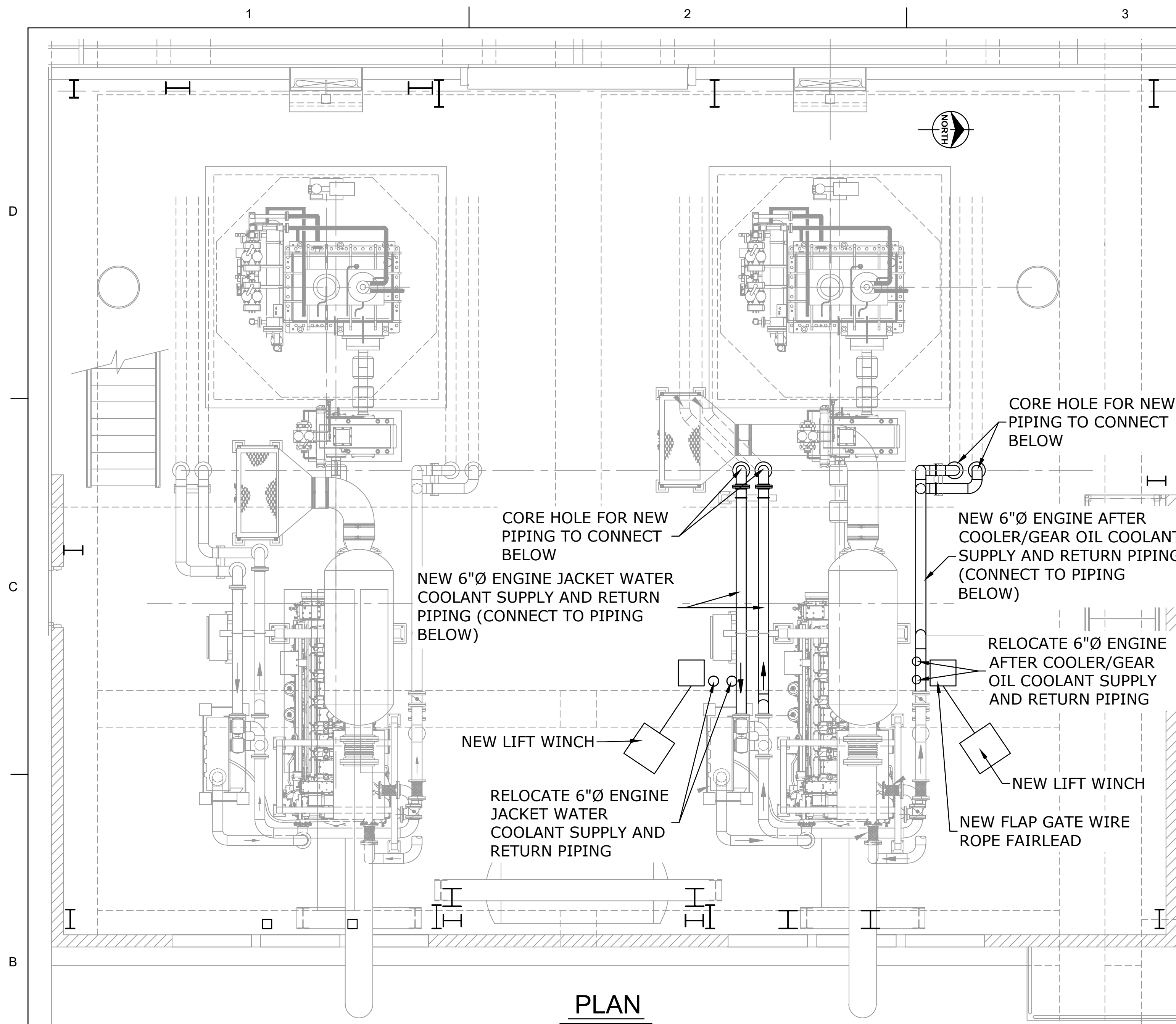
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CHECKED BY:	E.I.M.
PLOT SCALE:	DATE:
AS SHOWN	06/03/2021
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PA-20-06-008	
FILE NAME:	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

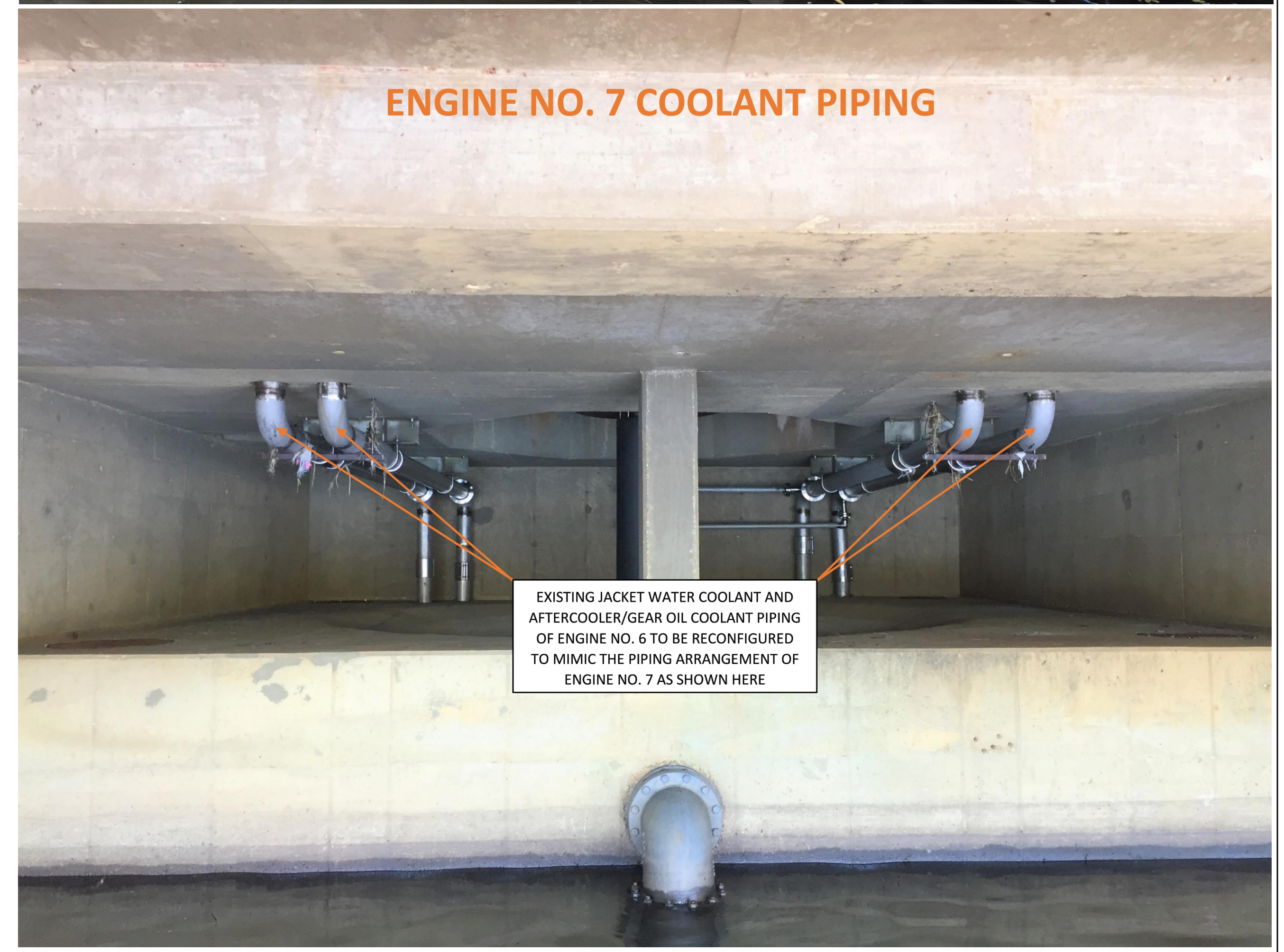
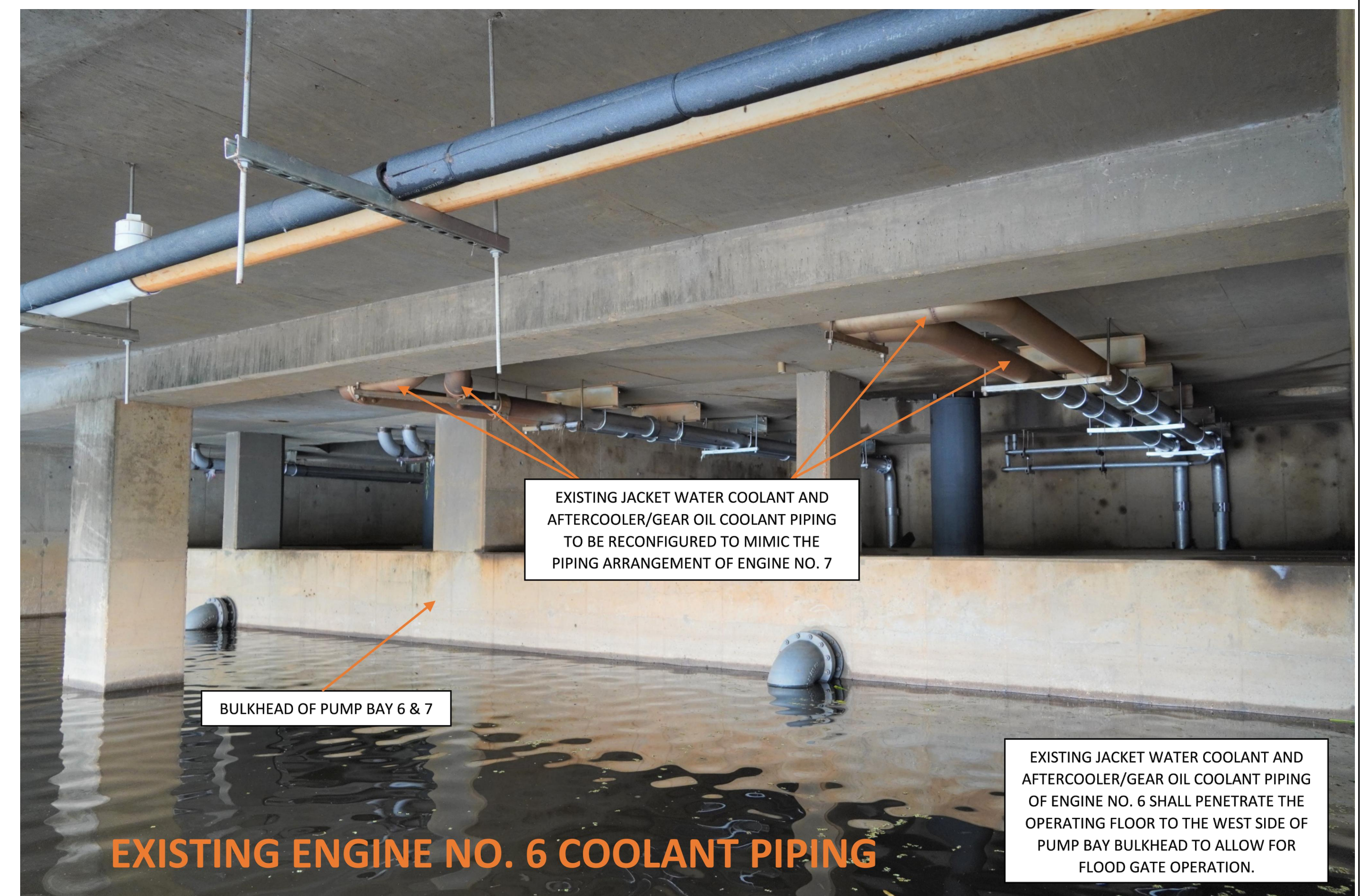
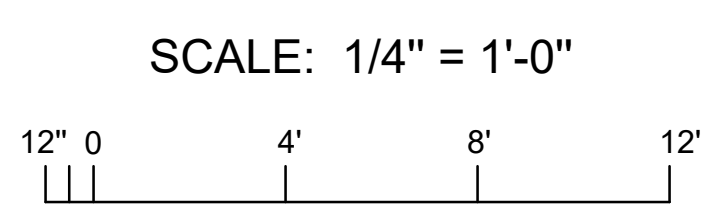
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
PIPING ALTERATIONS
MECHANICAL

SHEET IDENTIFICATION
311



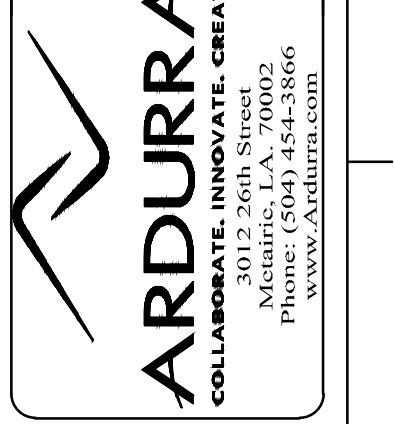
PLAN
PUMP 6 JACKET WATER COOLER SUPPLY AND
ENGINE AFTER COOLER/GEAR OIL COOLANT SUPPLY
 SCALE: 1/4" = 1'-0"

- NOTES:**
- FLOOR PENETRATIONS TO BE SEALED AROUND NEW PIPING WITH METRAFLEX METRASEAL WATER TIGHT RUBBER SEAL OR OWNER APPROVED EQUAL.
 - SUPPORT PIPING BELOW SLAB USING SIMILAR AS EXISTING SUPPORTS
 - NEW ENGINE 6 PIPING SHALL BE ORIENTED IN SAME FASHION AS ORIENTATION OF ENGINE 7
 - NEW COOLANT PIPING SHALL BE A DIRECT REPLACEMENT OF EXISTING
 - EXISTING PENETRATIONS THROUGH OPERATING FLOOR SLAB SHALL BE SEALED (SEE SHEET E-001 GENERAL NOTE 4)
 - FOR NEW FLAP GATE DETAILS, SEE SHEETS 228 THRU 231



NO.	REVISION DESCRIPTION	DATE	BY

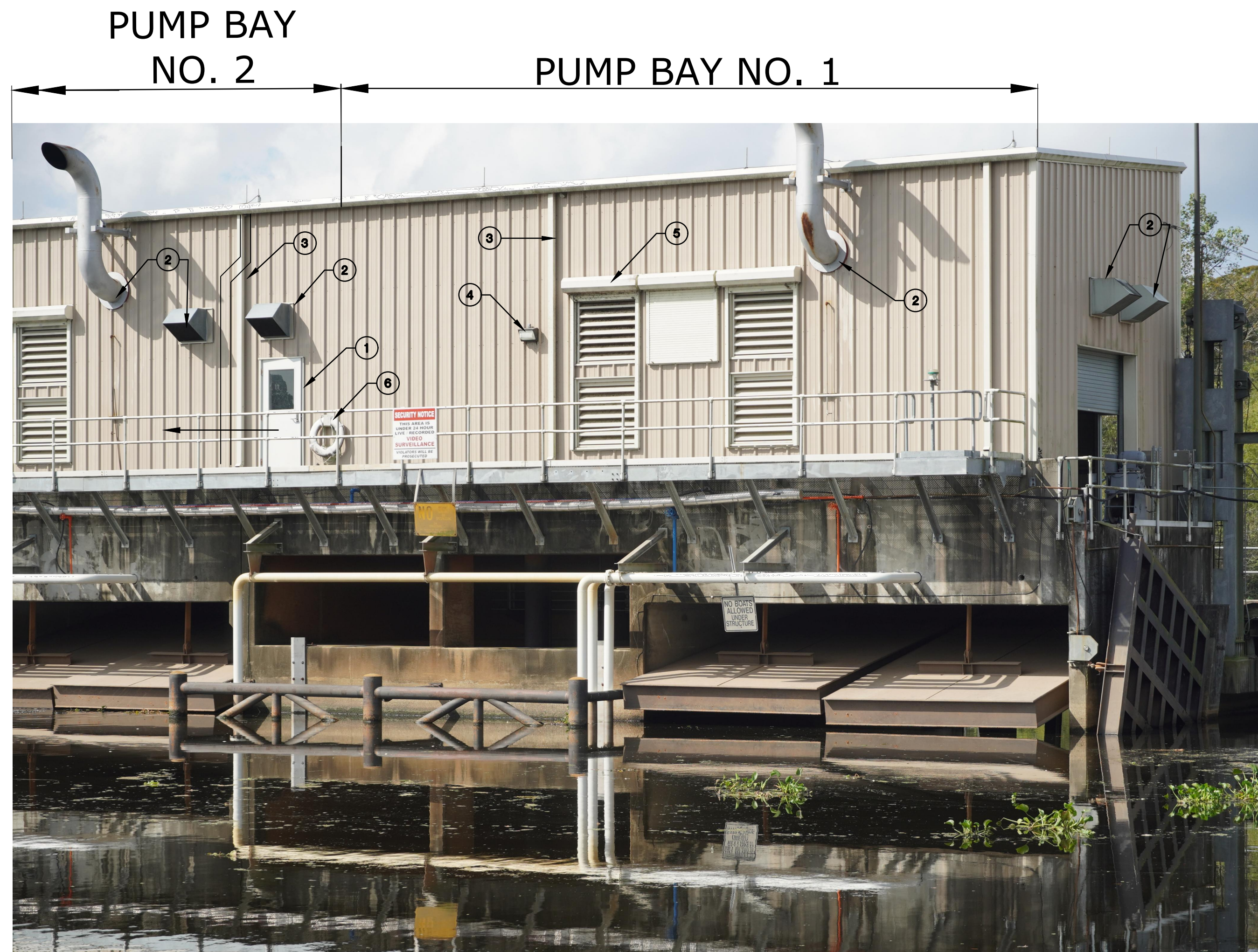
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CHECKED BY:	E.M.
DATE:	DATE:
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MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 PUMP 6 JACKET WATER COOLER SUPPLY &
 AFTER COOLER/GEAR OIL COOLANT SUPPLY

SHEET IDENTIFICATION
 312



EAST WALL EXTERIOR RECONFIGURATION

PUMP BAY NO. 1

NOTES:
PUMP BAY NO.1:

1. RELOCATE INTERFERING ① CATWALK DOORS COMPLETE TO SOUTH TO CLEAR NEW SLIDE GATE. INSTALL NEW BUILDING SIDING TO COVER ABANDONED DOOR OPENING. SIDING TO MATCH EXISTING SIDING AND PAINT TO MATCH EXISTING COLOR. INSTALL NEW METAL GIRTS AS REQUIRED TO SUPPORT NEW DOOR FRAME AND SIDING SPANS. ON INTERIOR, RELOCATE EXISTING ACCESS STAIRS AND LANDING TO NEW DOOR LOCATION. ANCHOR STAIR-LANDING TO CONCRETE FLOOR WITH NEW 1/2"Ø THREADED RODS TYPE 304 SS, EMBEDDED MINIMUM 6" AND EPOXY ANCHOR TH. RODS USING HILTI HYD-100 ADHESIVE OR APPROVED EQUAL. NEW LANDING/STAIR LOCATION SHALL NOT BLOCK ADJACENT WALKWAY ACCESS AROUND LANDING. ALSO, THE LANDING SHALL NOT BLOCK UTILITIES ROUTED ALONG THE CONCRETE PARAPET WALL. RELOCATE ALL EXISTING INTERFERING PIPES, CONDUITS, SWITCHES AND OTHER OBJECTS TO ALLOW FOR DOOR INSTALLATION.
2. REMOVE ALL INTERFERING AIR EXHAUST HOODS, SCREENS, AND PIPING ②. CLOSE OFF OPENINGS WITH A PATCH MADE FROM NEW BUILDING SIDING THAT IS OF SAME MATERIAL, GAUGE, PATTERN, AND PAINT TO MATCH EXISTING.
3. REROUTE ALL INTERFERING GUTTER DOWN SPOUTS ③ TO ALLOW FOR INSTALLATION OF NEW SLIDE GATES AND EXHAUST PIPE. ALL REROUTED DOWN SPOUTS NEED TO EXTEND 3" BELOW BOTTOM OF BUILDING SIDING. NEW GUTTERS AND DOWN SPOUTS SHALL BE EQUAL TO EXISTING; AND PAINTED TO MATCH EXISTING.
4. ALL INTERFERING ④ EXTERIOR LIGHTING TO BE RAISED VERTICALLY TO CLEAR GATE INSTALLATION AND RE-POWERED.
5. ANY EXISTING LOUVIER PANELS ⑤ PROTRUSIONS THAT INTERFERE WITH INSTALLATION SHALL BE SHIFTED TOWARD INSIDE OF BUILDING TO ELIMINATE INTERFERENCE. ADD ALL NECESSARY FRAME SUPPORT AND FLASHING TO RE-ATTACH LOUVIER PANELS TO BUILDING.
6. RELOCATE ANY LIFE RING STATIONS ⑥ INTERFERING WITH SLIDE GATE INSTALLATION.



EAST WALL EXTERIOR RECONFIGURATION

PUMP BAY NO. 2

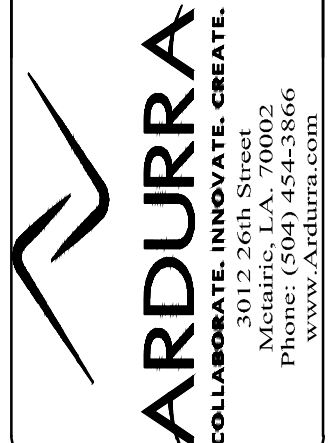
NOTES:
PUMP BAY NO.2:

1. REMOVE DOOR ① AND INSIDE LANDING. CLOSE OFF OPENING BY INSTALLING SUPPORT FRAMING FOR HANGING NEW BUILDING SIDING. NEW SIDING TO MATCH EXISTING SIDING TO MATCH EXISTING SIDING GAUGE, PATTERN AND COLOR.
2. REMOVE ALL INTERFERING AIR EXHAUST HOODS, SCREENS, AND PIPING ②. CLOSE OFF OPENINGS WITH A PATCH MADE FROM NEW BUILDING THAT IS OF SAME MATERIAL, GAUGE, PATTERN, AND PAINT TO MATCH EXISTING.
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6. RELOCATE ANY LIFE RING STATIONS ⑥ INTERFERING WITH SLIDE GATE INSTALLATION.



ISSUED FOR CONSTRUCTION

DESIGNED BY: EJM
CHECKED BY: EJM
DRAWN BY: EJM
APPROVED BY: EJM
DATE: 06/03/2021

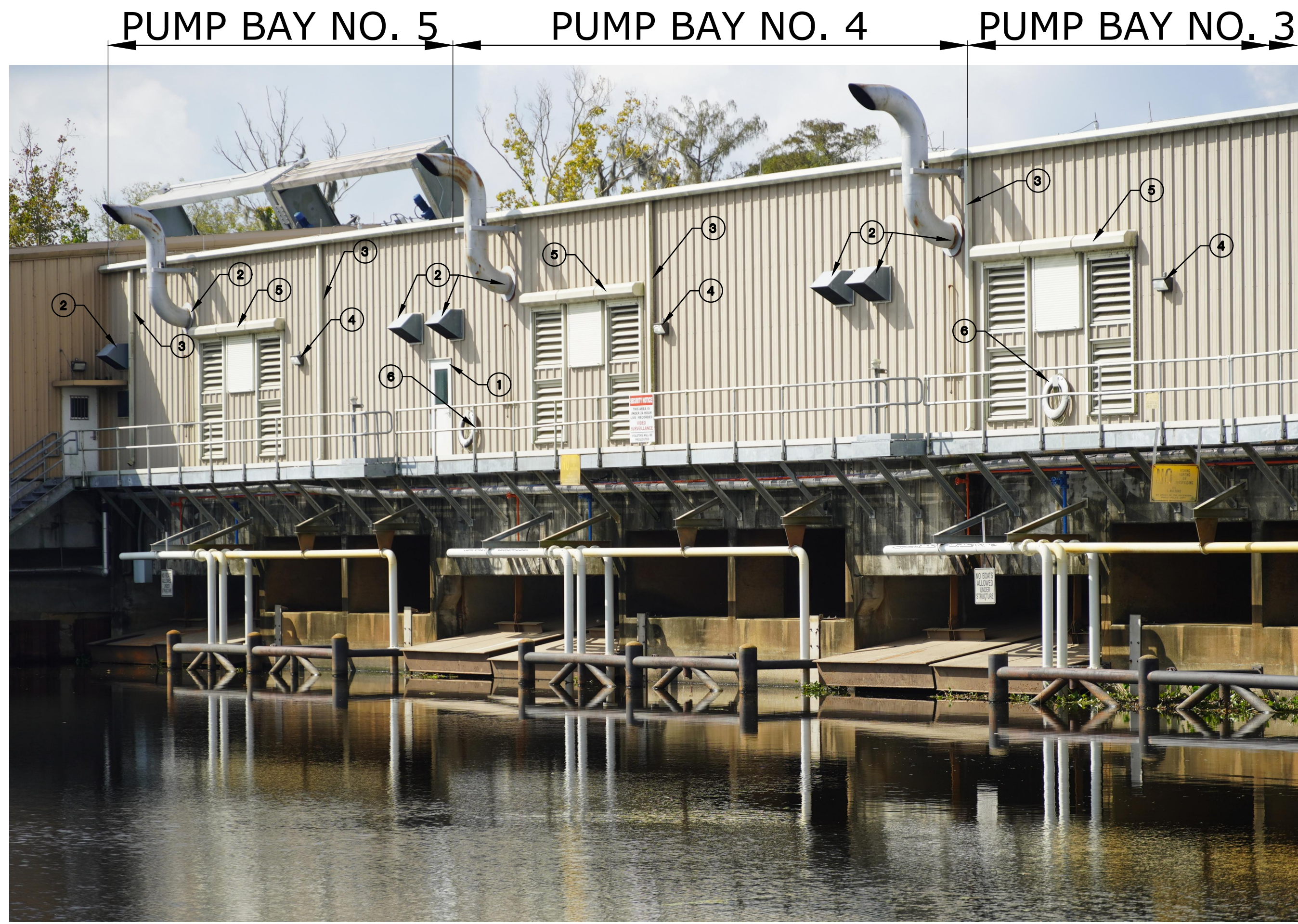


MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
EAST WALL EXTERIOR RECONFIGURATION
PUMP BAYS 1 AND 2

SHEET IDENTIFICATION
313

S:\CURRENT\2000\2018-1867 ASCENSION PARISH\Marvin Braud\MARVIN BRAUD PS-MACHINERY.dwg



EAST WALL EXTERIOR RECONFIGURATION

PUMP BAY NO. 3 THRU NO. 5

**NOTES:
PUMP BAY NO.4:**

1. REMOVE INTERFERING INTAKE AIR HOODS②. REMOVE ALL INTERFERING AIR EXHAUST HOODS SCREENS, AND PIPING. CLOSE OFF OPENINGS WITH A PATCH MADE FROM NEW BUILDING THAT IS OF SAME MATERIAL, GAUGE, PATTERN, AND PAINT TO MATCH EXISTING.
2. REROUTE INTERFERING GUTTER DOWN SPOUTS③. REROUTE ALL INTERFERING GUTTER DOWN SPOUTS③ TO ALLOW FOR INSTALLATION OF NEW SLIDE GATES AND EXHAUST PIPE. ALL REROUTED DOWN SPOUTS NEED TO EXTEND 3" BELOW BOTTOM OF BUILDING SIDING. NEW GUTTERS AND DOWN SPOUTS SHALL BE EQUAL TO EXISTING; AND PAINTED TO MATCH EXISTING.
3. RELOCATE INTERFERING LIGHTING④. ALL INTERFERING ④ EXTERIOR LIGHTING TO BE RAISED VERTICALLY TO CLEAR GATE INSTALLATION AND RE-POWERED.
4. RELOCATION OF INTERFERING LOUVER⑤. ANY EXISTING LOUVER PANELS⑤ PROTRUSIONS THAT INTERFERE WITH INSTALLATION SHALL BE SHIFTED TOWARD INSIDE OF BUILDING TO ELIMINATE INTERFERENCE. ADD ALL NECESSARY FRAME SUPPORT AND FLASHING TO RE-ATTACH LOUVER PANELS TO BUILDING.

**NOTES:
PUMP BAY NO.5:**

1. RELOCATE INTERFERING CATWALK DOOR① AND INSIDE LANDING TO THE NORTH TO ELIMINATE INTERFERENCE WITH SLIDE GATE INSTALLATION. RELOCATE INTERFERING① CATWALK DOORS COMPLETE TO SOUTH TO CLEAR NEW SLIDE GATE. INSTALL NEW BUILDING SIDING TO COVER ABANDONED DOOR OPENING. SIDING TO MATCH EXISTING SIDING AND PAINT TO MATCH EXISTING COLOR. INSTALL NEW METAL GIRTS AS REQUIRED TO SUPPORT NEW DOOR FRAME AND SIDING SPANS. ON INTERIOR, RELOCATE EXISTING ACCESS STAIRS AND LANDING TO NEW DOOR LOCATION. ANCHOR STAIR-LANDING TO CONCRETE FLOOR WITH NEW 1/2"Ø THREADED RODS TYPE 304 SS, EMBEDDED MINIMUM 6" AND EPOXY ANCHOR TH. RODS USING HILTI HYD-100 ADHESIVE OR APPROVED EQUAL. NEW LANDING/STAIR LOCATION SHALL NOT BLOCK ADJACENT WALKWAY ACCESS AROUND LANDING. ALSO, THE LANDING SHALL NOT BLOCK UTILITIES ROUTED ALONG THE CONCRETE PARAPET WALL. RELOCATE ALL EXISTING INTERFERING PIPES, CONDUITS, SWITCHES, AND OTHER OBJECTS TO ALLOW FOR DOOR INSTALLATION.
2. REMOVE INTERFERING INTAKE AIR HOODS②. REMOVE ALL INTERFERING AIR EXHAUST HOODS, SCREENS, AND PIPING. CLOSE OFF OPENINGS WITH A PATCH MADE FROM NEW BUILDING SIDING THAT IS OF SAME MATERIAL, GAUGE, PATTERN; AND PAINT TO MATCH EXISTING.
3. REROUTING INTERFERING GUTTER DOWN SPOUTS③. REROUTE ALL INTERFERING GUTTER DOWN SPOUTS③ TO ALLOW FOR INSTALLATION OF NEW SLIDE GATES AND EXHAUST PIPE. ALL REROUTED DOWN SPOUTS NEED TO EXTEND 3" BELOW BOTTOM OF BUILDING SIDING. NEW GUTTERS AND DOWN SPOUTS SHALL BE EQUAL TO EXISTING; AND PAINTED TO MATCH EXISTING.
4. RELOCATE INTERFERING LIGHTING④. ALL INTERFERING④ EXTERIOR LIGHTING TO BE RAISED VERTICALLY TO CLEAR GATE INSTALLATION AND RE-POWERED.
5. RELOCATION OF INTERFERING LOUVER⑤. ANY EXISTING LOUVER PANELS⑤ PROTRUSIONS THAT INTERFERE WITH INSTALLATION SHALL BE SHIFTED TOWARD INSIDE OF BUILDING TO ELIMINATE INTERFERENCE. ADD ALL NECESSARY FRAME SUPPORT AND FLASHING TO RE-ATTACH LOUVER PANELS TO BUILDING.
6. RELOCATE INTERFERING LIFE RING STATION⑥. RELOCATE ANY LIFE RING STATIONS INTERFERING WITH SLIDE GATE INSTALLATION.

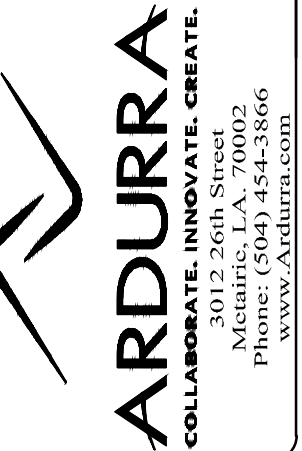
**NOTES:
PUMP BAY NO.3:**

1. REMOVE INTERFERING INTAKE AIR HOODS②. REMOVE ALL INTERFERING AIR EXHAUST HOODS, SCREENS, AND PIPING. CLOSE OFF OPENINGS WITH A PATCH MADE FROM NEW BUILDING THAT IS OF SAME MATERIAL, GAUGE, PATTERN, AND PAINT TO MATCH EXISTING.
2. REROUTE ALL INTERFERING GUTTER DOWN SPOUTS③ TO ALLOW FOR INSTALLATION OF NEW SLIDE GATES AND EXHAUST PIPE. ALL REROUTED DOWN SPOUTS NEED TO EXTEND 3" BELOW BOTTOM OF BUILDING SIDING. NEW GUTTERS AND DOWN SPOUTS SHALL BE EQUAL TO EXISTING; AND PAINTED TO MATCH EXISTING.
3. RELOCATE INTERFERING LIGHTING④. ALL INTERFERING EXTERIOR LIGHTING TO BE RAISED VERTICALLY TO CLEAR GATE INSTALLATION AND RE-POWERED.
4. RELOCATION OF INTERFERING LOUVER⑤. ANY EXISTING LOUVER PANELS⑤ PROTRUSIONS THAT INTERFERE WITH INSTALLATION SHALL BE SHIFTED TOWARD INSIDE OF BUILDING TO ELIMINATE INTERFERENCE. ADD ALL NECESSARY FRAME SUPPORT AND FLASHING TO RE-ATTACH LOUVER PANELS TO BUILDING.
5. RELOCATE INTERFERING LIFE RING STATION⑥. RELOCATE ANY LIFE RING STATIONS INTERFERING WITH SLIDE GATE INSTALLATION.



ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	APPROVED BY:
CHECKED BY:	EJM
DATE:	DATE:
PROJECT NO.	PROJECT NO.
FILE NAME:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
EAST WALL EXTERIOR RECONFIGURATION
PUMP BAYS 3 THRU 5

SHEET
IDENTIFICATION
314

SYMBOL SCHEDULE – ELECTRICAL

SYMBOL		DESCRIPTION	SYMBOL		DESCRIPTION
CEILING	WALL		CEILING	WALL	
	S	SINGLE-POLE TOGGLE SWITCH	A	AMP	
	S ₃	THREE-WAY TOGGLE SWITCH	AC	AIR CONDITION	
	S ₄	FOUR-WAY TOGGLE SWITCH	AFF	ABOVE FINISHED FLOOR	
	S _p	TOGGLE SWITCH WITH PILOT LIGHT	ANN	ANNUNCIATOR PANEL	
	S _x	KEY OPERATED TOGGLE SWITCH	C	CONDUIT	
		PUSHBUTTON STATION	C/B	CIRCUIT BREAKER	
		DUPLEX OUTLET (15 AMP, 125 VOLT, NEMA 5-15R)	EOLR	END OF LINE RESISTOR	
		DUPLEX OUTLET (20AMP, 120 VOLT, NEMA 5-20R)	GFI	GROUND FAULT INTERRUPTER	
		BRANCH CIRCUIT EMERGENCY PANELBOARD	GND	GROUND	
		BRANCH CIRCUIT PANELBOARD	P	POLE	
		DISTRIBUTION PANELBOARD	UON	UNLESS OTHERWISE NOTED	
		DISCONNECT SWITCH – FUSED UNLESS OTHERWISE NOTED	V	VOLT	
		JUNCTION BOX WITH FIXTURE WHIP	WH	WATER HEATER	
		JUNCTION BOX	W	WIRE	
		PULLBOX OR TROUGH		TELEPHONE BACKBOARD	
		MOTOR – SINGLE-PHASE (NUMERAL DENOTES HORSEPOWER)		NOTE REFERENCE	
		MOTOR – THREE PHASE (NUMERAL DENOTES HORSEPOWER)		HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO (HASH MARKS), OPPOSITE SLANT DENOTES GROUND, NUMBER OF CIRCUITS (NUMBER OF ARROWS)	
		TERMINAL CABINET		FLOOR PLAN AND DETAIL: "X" DENOTES PLAN AND DETAIL NUMBER	
		CIRCUIT BREAKER DEVICE		SECTION: "X" DENOTES SECTION ALPHA "Y" DENOTES SHEET SECTION IS DRAWN ON	
		SWITCH DEVICE		DETAIL: "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS DRAWN ON	
		FUSE		DETAIL/SECTION REFERENCE: "X" DENOTES DETAIL/SECTION NUMBER OR ALPHA "Y" DENOTES SHEET DETAIL/SECTION IS REFERENCED FROM "Z" DENOTES SHEET DETAIL/SECTION IS DRAWN ON	
		NORMALLY OPEN CONTACT		ENLARGED REFERENCE: "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS DRAWN ON	
		NORMALLY CLOSED CONTACT			
		GROUND CONNECTION			
		WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL			
		WIRING (IN CONDUIT) CONCEALED IN OR UNDER SLAB			
		EMERGENCY WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL			
		WIRING (IN CONDUIT) RUN EXPOSED			
		EXISTING			
		EXISTING TO BE REMOVED			
		WIRING (IN CONDUIT) RUN UNDER GROUND			
		EXTEND EXISTING CONDUIT WITH NEW CONDUIT			
		CIRCUIT TURNED UP			
		CIRCUIT TURNED DOWN			
		OUTDOOR AERIAL CONDUCTORS			

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE NFPA 70-2014.
- ALL FUSED DISCONNECT SWITCHES SERVING EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS OF THE WORK SHALL BE PROVIDED WITH FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER; UNLESS NOTED OTHERWISE.
- SEPARATE GREEN GROUND CONDUCTORS ARE REQUIRED FOR ALL CIRCUITS; SEE SPECIFICATIONS.
- FIRESTOP MATERIALS (U.L.LISTED) AND ARE REQUIRED AT ALL PENETRATIONS THROUGH RATED FLOORS, WALLS, CEILING AND PARTITIONS.
- CONDUCTORS SHALL BE COLOR CODED PER N.E.C. AND AS SPECIFIED. UTILIZE ONLY THE COLORS SPECIFIED AND IDENTIFY ALL CONDUCTORS AND BOXES.
- WRITTEN SPECIFICATIONS DESCRIBING MATERIALS AND METHODS ARE PART OF DIVISION 16 AND SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION OF THE PROJECT.

LIGHT FIXTURE SCHEDULE

- F1 STANCHION-MOUNT, LED VAPORTITE; UL1598 WET LOCATION LISTED; DIE CAST, LOW-COPPER ALLOY ALUMINUM HOUSING; 25-DEGREE STANCHION WITH 1-1/4 INCH HUB; FROSTED GLASS GLOBE; UNIVERSAL 120-277-VOLT LED DRIVER; 1800 INITIAL LUMENS (NOMINAL); 70 CRI.
- F2 LED FLOODLIGHT; UL1598 WET LOCATION LISTED; IP66 RATED; CORROSION-RESISTANT, DIE CAST ALUMINUM HOUSING; UV STABILIZED ACRYLIC LENS; FULLY GASKETED; KNUCKLE MOUNT; WIDE DISTRIBUTION; UNIVERSAL 120-277-VOLT LED DRIVER WITH OUTPUT OVER-POWER AND OVER-VOLTAGE PROTECTION; INTEGRAL 10KA SURGE PROTECTION; 3000 INITIAL LUMENS (NOMINAL); 70 CRI; 25 WATTS. PROVIDE KNUCKLE-TO-SLIPFITTER ADAPTER FOR MOUNTING TO BULLHORN.

PANEL NAME:		LL-P#	NUMBER OF PHASES:	3	PROJECT NAME:	MARVIN BRAUD PUMP STATION							
VOLTAGE:		208Y/120	NEUTRAL BUS:	Y	PROJECT NUMBER:	12/16/2021							
BUS SIZE (AMPS):		100	GROUND BAR:	Y	DATE:	06/03/2021							
MAIN CIRCUIT BREAKER SIZE:		MLO	MOUNTING:	Y SURFACE	SECTION 1								
AIC RATING:		10 KA	FEED-THRU LUGS:	N	ITEM								
EST. SSC AMPS AVAILABLE:		< 10 KA	OTHER OPTIONS:		AMP RATING								
ITEM	AMP RATING	# POLES	# CKT	LEFT LOADING			RIGHT LOADING			CKT #	# POLES	AMP RATING	ITEM
1	20	1		A	B	C	A	B	C				2
3	20	1			0			2000	2000		3	40	JACKET WATER HEATER
5	20	1				0			2000				4
7				600				600					6
9	20	3			600			600			3	20	FLOOD GATE ACTUATOR
11								600					8
13													10
16													12
17													14
													16
													18
				1200	600	600	2600	2600	2600				
TOTAL CONNECTED LOAD (VA):		10200		1 LIGHTS			LOAD	DV	RSTY	DMND			
PHASE A LOADING (VA):		3800		2 RECEPT <= 10KVA			0	1.00	0				
PHASE B LOADING (VA):		3200		2 RECEPT > 10KVA			0	0.50	0				
PHASE C LOADING (VA):		3200		3 ACTUATOR			2400	1.00	2400				
TOTAL CALCULATED LOAD (VA):		10650		4			0	1.00	0				
				5 HEATER			6000	1.00	6000				
				6 BATT CHARGER			600	1.00	600				
				7			0	1.00	0				
TOTAL CALCULATED LOAD (A):		30		8			0	1.00	0				
				9			0	1.00	0				
				10			0	1.00	0				



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NO. _____ DATE _____

REVISION DESCRIPTION _____

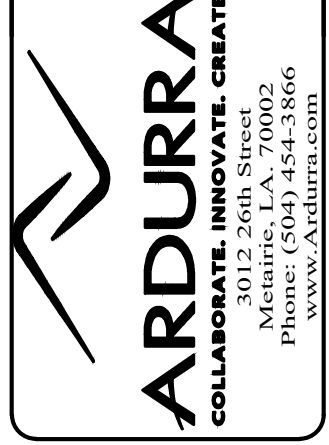
DESIGNED BY: _____

APPROVED BY: _____

DATE: 06/03/2021

PROJECT NO. PA-20-06-008

FILE NAME: _____



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL LEGEND AND
NOTES

SHEET E001

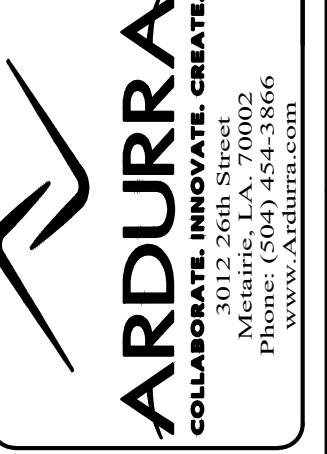


1 SITE PLAN - PUMP STATION
SCALE: N.T.S.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	PSY	APPROVED BY:	PSY
REVISED BY:	PSY	DATE:	06/03/2021
PLOT SCALE:	AS SHOWN	PROJECT NO.	PA-20-06-008
FILE NAME:			



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL SITE PLAN -
OVERALL

SHEET IDENTIFICATION
E100

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2714 INDEPENDENCE STREET
METAIRIE, LOUISIANA 70006

SHEET SIZE 27" x 34"
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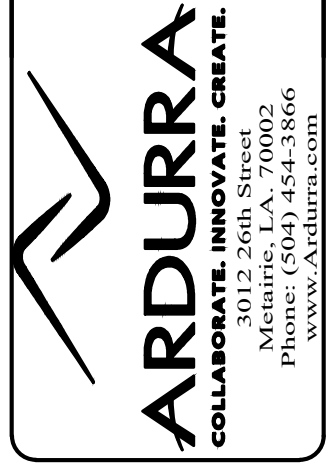


1 SITE PLAN - PUMP STATION - SOUTH
SCALE: N.T.S.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	DESIGNED BY:
REVISED BY:	REVISED BY:
PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:
DATE:	DATE:
APPROVED BY:	APPROVED BY:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL SITE PLAN -
PARTIAL - SOUTH OF STATION

SHEET IDENTIFICATION
E110

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METAIRIE, LOUISIANA 70006

SHEET SIZE 22" x 34"
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1 SITE PLAN - PUMP STATION - NORTH
SCALE: N.T.S.

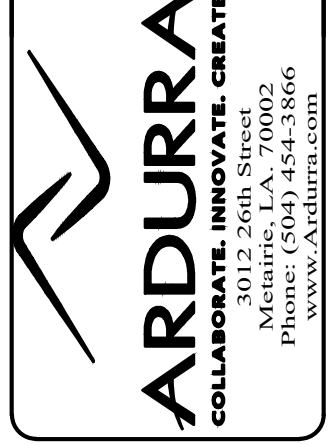
- SPECIFIC NOTES -- NORTH OF STATION**
- ① CURRENTLY, THERE ARE 5 ELECTRICAL AND COMMUNICATION CIRCUITS THAT CROSS THE EXISTING BOAT LOCK. RELOCATE AND / OR PROTECT EACH AS INDICATED ON DRAWINGS. SEE SHEETS E420-E423.
CIRCUIT 1: 1-INCH CONDUIT WITH POWER TO BARRIER GATE AND FLOOD LIGHT.
CIRCUIT 2: 1/2-INCH CONDUIT WITH CONTROL CIRCUIT SERVING BOAT LOCK PUSH BUTTONS LOCATED ON EITHER SIDE OF LOCK AND AT BRIDGE LEVEL.
CIRCUIT 3: CABLE FOR WATER LEVEL MONITORING / SCADA EQUIPMENT.
CIRCUIT 4: CABLE FOR VIDEO CAMERA.
CIRCUIT 5: POWER CABLES TO FEED LOAD CENTER NORTH OF STATION.
 - ② APPROXIMATE LOCATION OF EXISTING 100A MLO LOAD CENTER FED FROM PUMP STATION. MAINTAIN AERIAL FEED TO POLE THROUGHOUT CONSTRUCTION.

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DESIGNED BY: PSY	DRAWN BY: GMB
CHECKED BY: PSY	APPROVED BY: PSY
PLOT SCALE: AS SHOWN	DATE: 06/03/2021
PROJECT NO: PA-20-06-008	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL SITE PLAN -
PARTIAL - NORTH OF STATION

SHEET IDENTIFICATION
E120

SHEET SIZE 22"x34"
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4

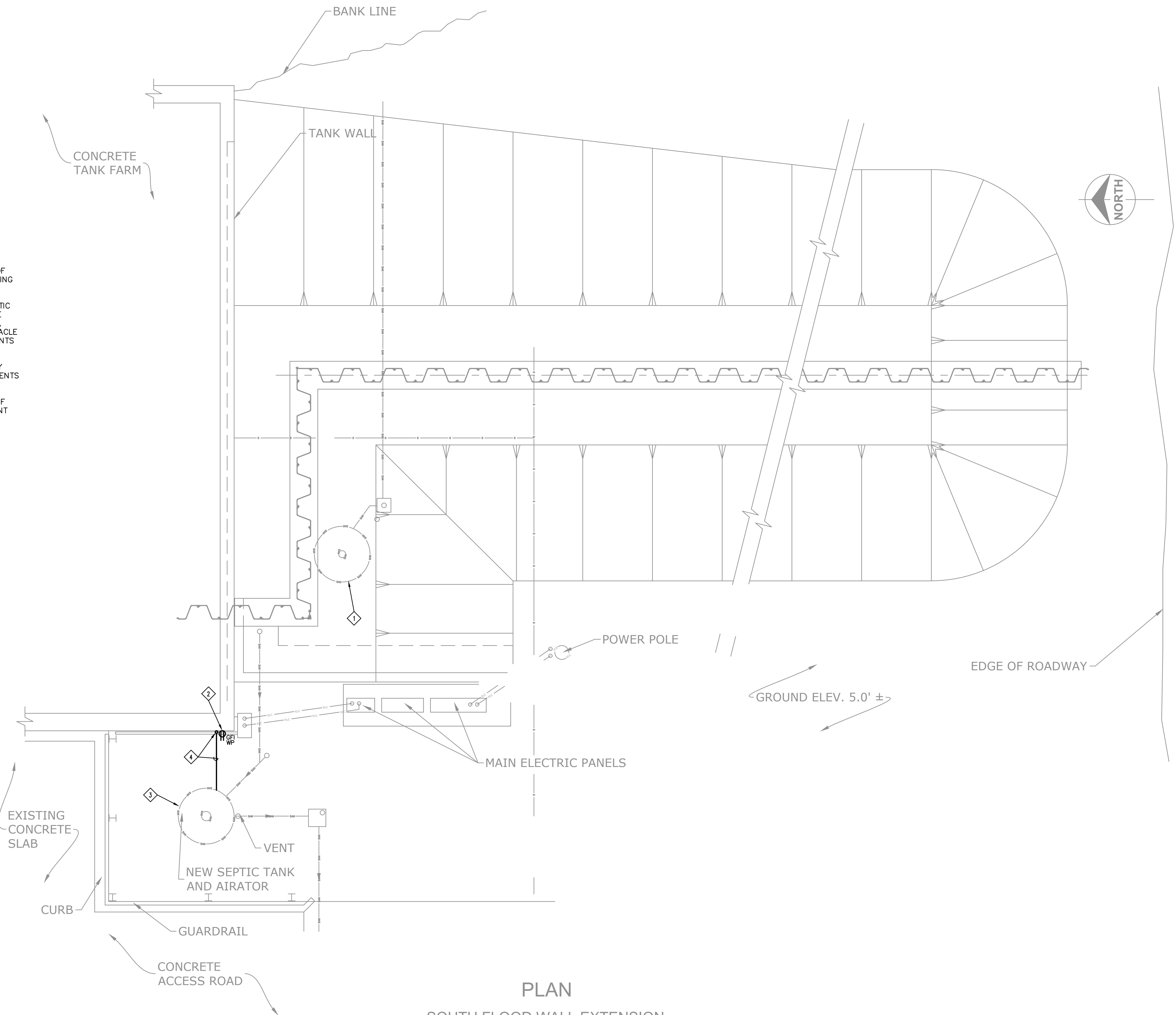
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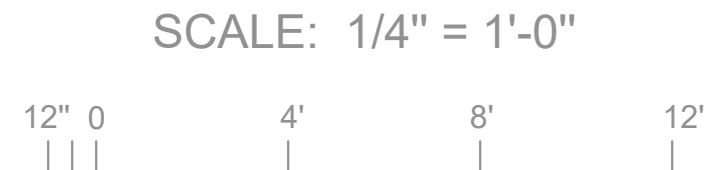
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SPECIFIC NOTES:

- 1 EXISTING SEPTIC TANK WILL BE REMOVED BY OTHER DIVISIONS OF WORK. REMOVE ASSOCIATED ELECTRICAL BACK TO NEAREST FITTING LOCATED ON TANK FARM DIKE WALL.
- 2 CONDUIT THAT IS BELIEVED TO CURRENTLY SERVE EXISTING SEPTIC TANK AERATOR RISES ABOVE GRADE AT THIS LOCATION. TRACE CONDUIT TO VERIFY IT SERVES SEPTIC TANK. ONCE CONFIRMED, REMOVE ELECTRICAL TO NEAREST FITTING AND PROVIDE RECEPTACLE FOR NEW AERATOR PUMP. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 3 NEW SEPTIC TANK AND AERATOR FURNISHED AND INSTALLED BY OTHER DIVISIONS OF WORK. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 4 PROVIDE 2-INCH CONDUIT PATH BELOW GRADE FROM TO TANK IF REQUIRED FOR ROUTING AIR LINES. COORDINATE WITH EQUIPMENT PROVIDER.

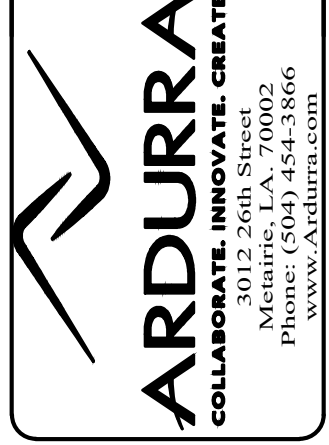


PLAN
SOUTH FLOOD WALL EXTENSION
 SCALE: 1/4" = 1'-0"



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PROJECT NO.:	DATE:
FILE NAME:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOD
 PROTECTION - SOUTH PLAN

SHEET IDENTIFICATION
 E210

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SHEET SIZE 22"x34"
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 krc@imc.com

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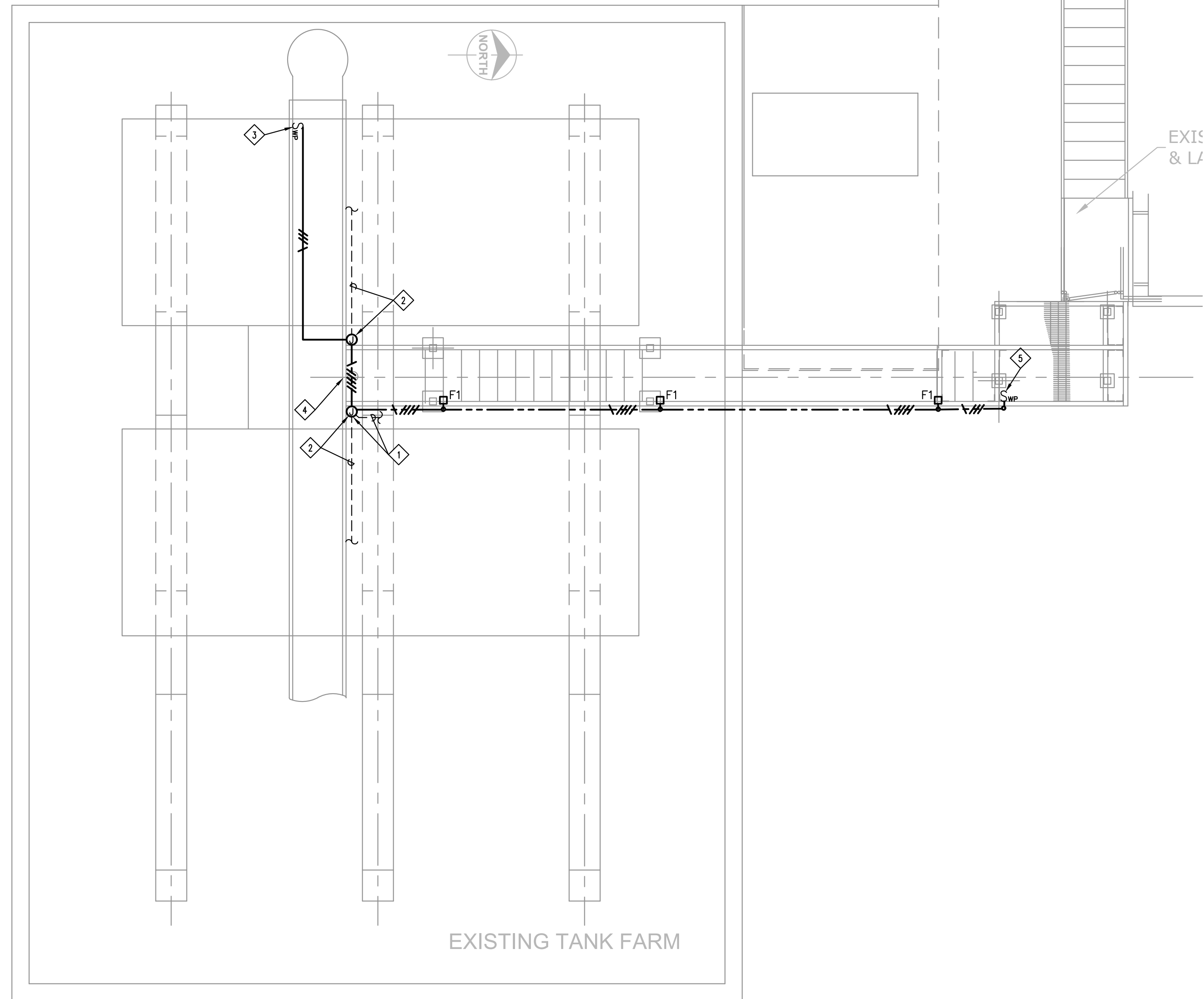
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TANK FARM CATWALK PLAN

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

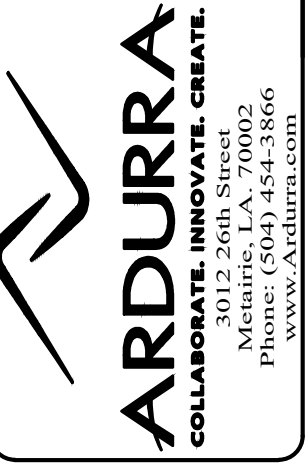
SPECIFIC NOTES:

- 1 POWER FOR CATWALK LIGHTING RISES UP NEAR THIS LOCATION. PROVIDE CAST OUTLET BOX, TAP CIRCUIT, REFEED LIGHTS, AND REVISE LIGHTING CONTROLS AS ILLUSTRATED.
- 2 CONDUIT AND CONDUCTORS TO EXISTING FIXTURES TO REMAIN. RECONNECT TO SWITCHED CIRCUIT IN JUNCTION BOX.
- 3 REPLACE EXISTING SWITCH WITH 3-WAY SWITCH IN WEATHERPROOF, NEMA 4X ENCLOSURE.
- 4 REMOVE EXISTING LIGHT FIXTURE AND CONDUIT FOR LIGHTING CIRCUIT TO FACILITATE ATTACHMENT OF NEW CATWALK. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 PROVIDE 3-WAY SWITCH IN WEATHERPROOF, NEMA 4X ENCLOSURE.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: JCS	DRAWN BY: JCS
CHECKED BY: JCS	APPROVED BY: JCS
PLotted SCALE: AS SHOWN	DATE: 06/03/2021
PROJECT NO: PA-20-06-008	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL PLAN -
TANK FARM CATWALK

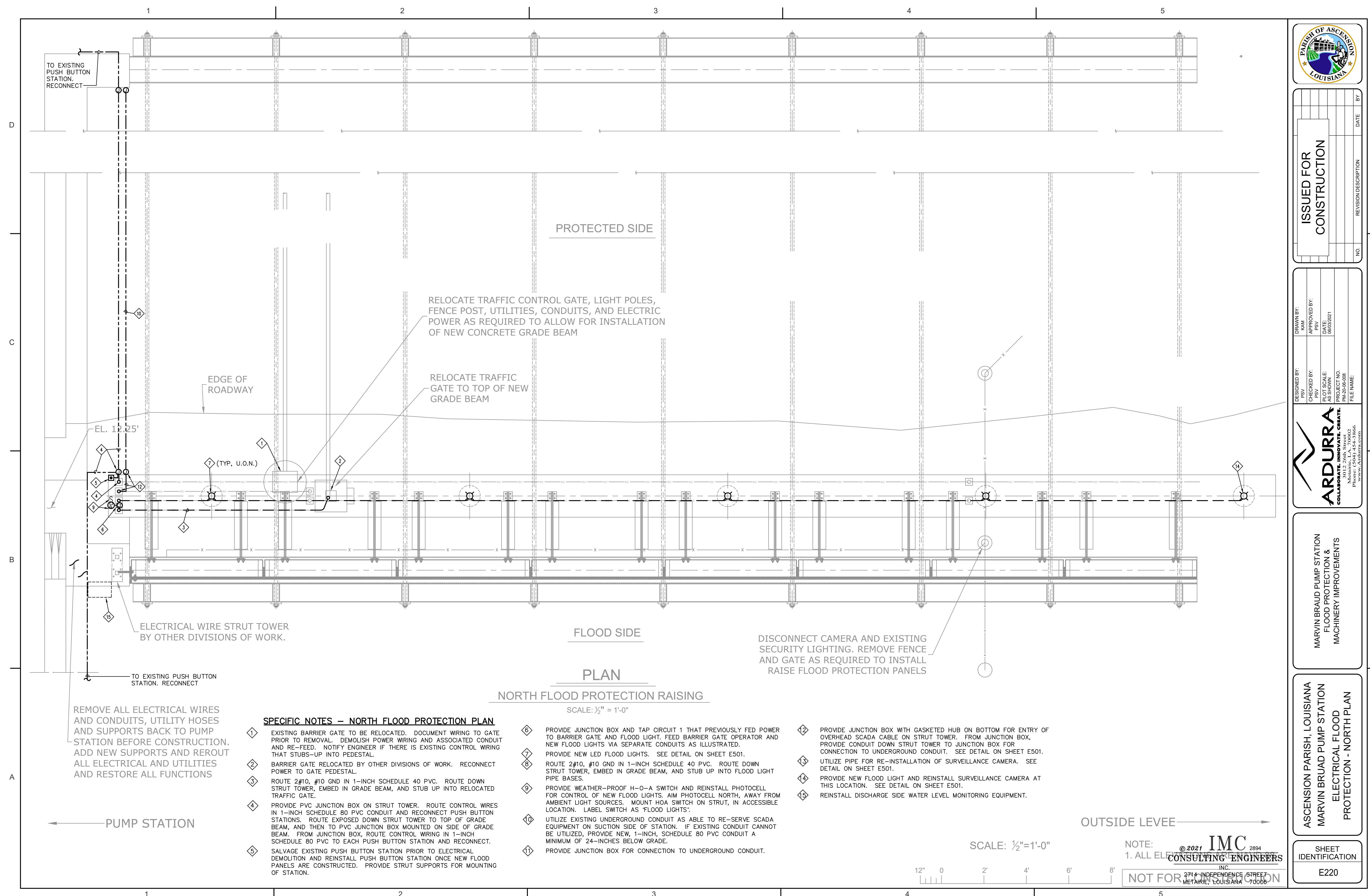
SHEET IDENTIFICATION
E211

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SHEET SIZE 22"x34"
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krc/brs

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SHEET SIZE 27" x 34"
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PLAN
NORTH FLOOD PROTECTION RAISING

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

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

REMOVE ALL ELECTRICAL WIRES AND CONDUITS, UTILITY HOSES AND SUPPORTS BACK TO PUMP STATION BEFORE CONSTRUCTION. ADD NEW SUPPORTS AND REROUT ALL ELECTRICAL AND UTILITIES AND RESTORE ALL FUNCTIONS

SPECIFIC NOTES - NORTH FLOOD PROTECTION PLAN

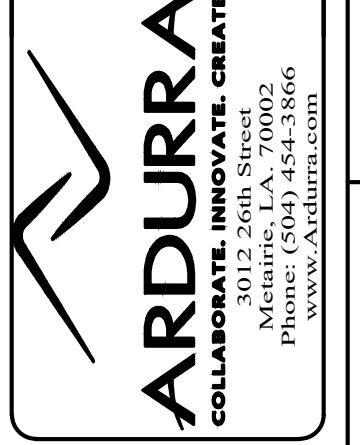
- ① EXISTING BARRIER GATE TO BE RELOCATED. DOCUMENT WIRING TO GATE PRIOR TO REMOVAL. DEMOLISH POWER WIRING AND ASSOCIATED CONDUIT AND RE-FEED. NOTIFY ENGINEER IF THERE IS EXISTING CONTROL WIRING THAT STUBS-UP INTO PEDESTAL.
- ② BARRIER GATE RELOCATED BY OTHER DIVISIONS OF WORK. RECONNECT POWER TO GATE PEDESTAL.
- ③ ROUTE 2#10, #10 GND IN 1-INCH SCHEDULE 40 PVC. ROUTE DOWN STRUT TOWER, EMBED IN GRADE BEAM, AND STUB UP INTO RELOCATED TRAFFIC GATE.
- ④ PROVIDE PVC JUNCTION BOX ON STRUT TOWER. ROUTE CONTROL WIRES IN 1-INCH SCHEDULE 80 PVC CONDUIT AND RECONNECT PUSH BUTTON STATIONS. ROUTE EXPOSED DOWN STRUT TOWER TO TOP OF GRADE BEAM, AND THEN TO PVC JUNCTION BOX MOUNTED ON SIDE OF GRADE BEAM. FROM JUNCTION BOX, ROUTE CONTROL WIRING IN 1-INCH SCHEDULE 80 PVC TO EACH PUSH BUTTON STATION AND RECONNECT.
- ⑤ SALVAGE EXISTING PUSH BUTTON STATION PRIOR TO ELECTRICAL DEMOLITION AND REINSTALL PUSH BUTTON STATION ONCE NEW FLOOD PANELS ARE CONSTRUCTED. PROVIDE STRUT SUPPORTS FOR MOUNTING OF STATION.
- ⑥ PROVIDE JUNCTION BOX AND TAP CIRCUIT 1 THAT PREVIOUSLY FED POWER TO BARRIER GATE AND FLOOD LIGHT. FEED BARRIER GATE OPERATOR AND NEW FLOOD LIGHTS VIA SEPARATE CONDUITS AS ILLUSTRATED.
- ⑦ PROVIDE NEW LED FLOOD LIGHTS. SEE DETAIL ON SHEET E501.
- ⑧ ROUTE 2#10, #10 GND IN 1-INCH SCHEDULE 40 PVC. ROUTE DOWN STRUT TOWER, EMBED IN GRADE BEAM, AND STUB UP INTO FLOOD LIGHT PIPE BASES.
- ⑨ PROVIDE WEATHER-PROOF H-O-A SWITCH AND REINSTALL PHOTOCELL FOR CONTROL OF NEW FLOOD LIGHTS. AIM PHOTOCELL NORTH, AWAY FROM AMBIENT LIGHT SOURCES. MOUNT HOA SWITCH ON STRUT, IN ACCESSIBLE LOCATION. LABEL SWITCH AS 'FLOOD LIGHTS'.
- ⑩ UTILIZE EXISTING UNDERGROUND CONDUIT AS ABLE TO RE-SERVE SCADA EQUIPMENT ON SUCTION SIDE OF STATION. IF EXISTING CONDUIT CANNOT BE UTILIZED, PROVIDE NEW, 1-INCH, SCHEDULE 80 PVC CONDUIT A MINIMUM OF 24-INCHES BELOW GRADE.
- ⑪ PROVIDE JUNCTION BOX FOR CONNECTION TO UNDERGROUND CONDUIT.
- ⑫ PROVIDE JUNCTION BOX WITH GASKETED HUB ON BOTTOM FOR ENTRY OF OVERHEAD SCADA CABLE ON STRUT TOWER. FROM JUNCTION BOX, PROVIDE CONDUIT DOWN STRUT TOWER TO JUNCTION BOX FOR CONNECTION TO UNDERGROUND CONDUIT. SEE DETAIL ON SHEET E501.
- ⑬ UTILIZE PIPE FOR RE-INSTALLATION OF SURVEILLANCE CAMERA. SEE DETAIL ON SHEET E501.
- ⑭ PROVIDE NEW FLOOD LIGHT AND REINSTALL SURVEILLANCE CAMERA AT THIS LOCATION. SEE DETAIL ON SHEET E501.
- ⑮ REINSTALL DISCHARGE SIDE WATER LEVEL MONITORING EQUIPMENT.

NOTE:
 1. ALL ELEVATIONS ARE IN FEET UNLESS OTHERWISE NOTED.
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 2714 INDEPENDENCE STREET
 METAIRIE, LOUISIANA 70006
NOT FOR CONSTRUCTION



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: RJS	APPROVED BY: RJS
PROJECT NO: PA-20-06-008	DATE: 06/03/2021
FILE NAME:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOD
 PROTECTION - NORTH PLAN

SHEET
 IDENTIFICATION
 E220

M:\2000 SERIES\2894\2894-ELEC-FLOOD PROTECTION - North Plan.dwg

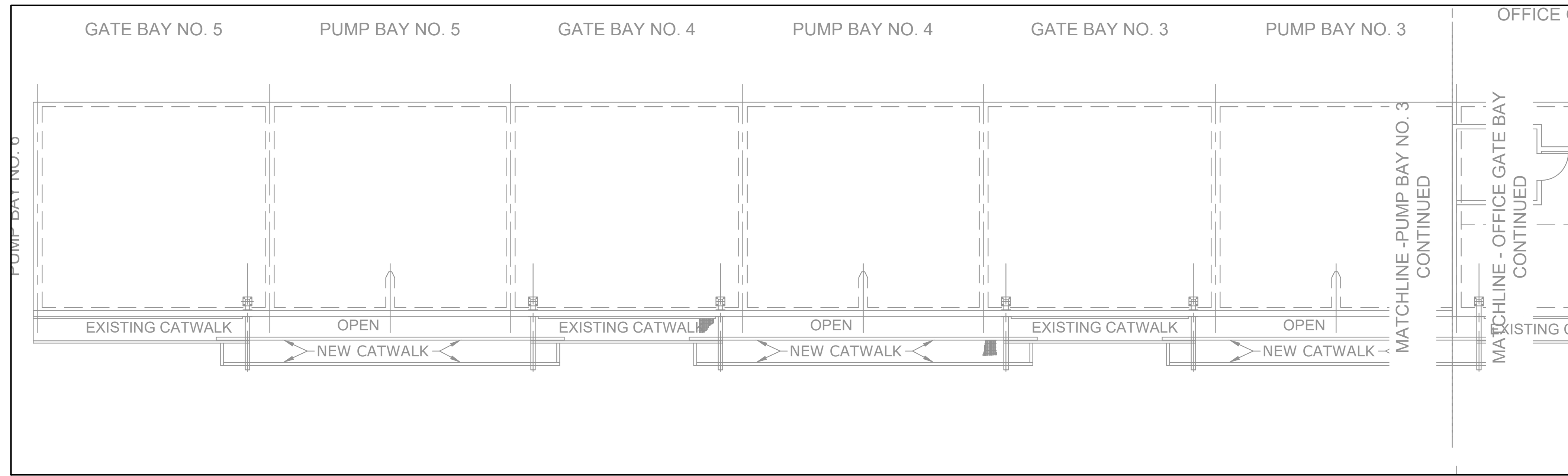
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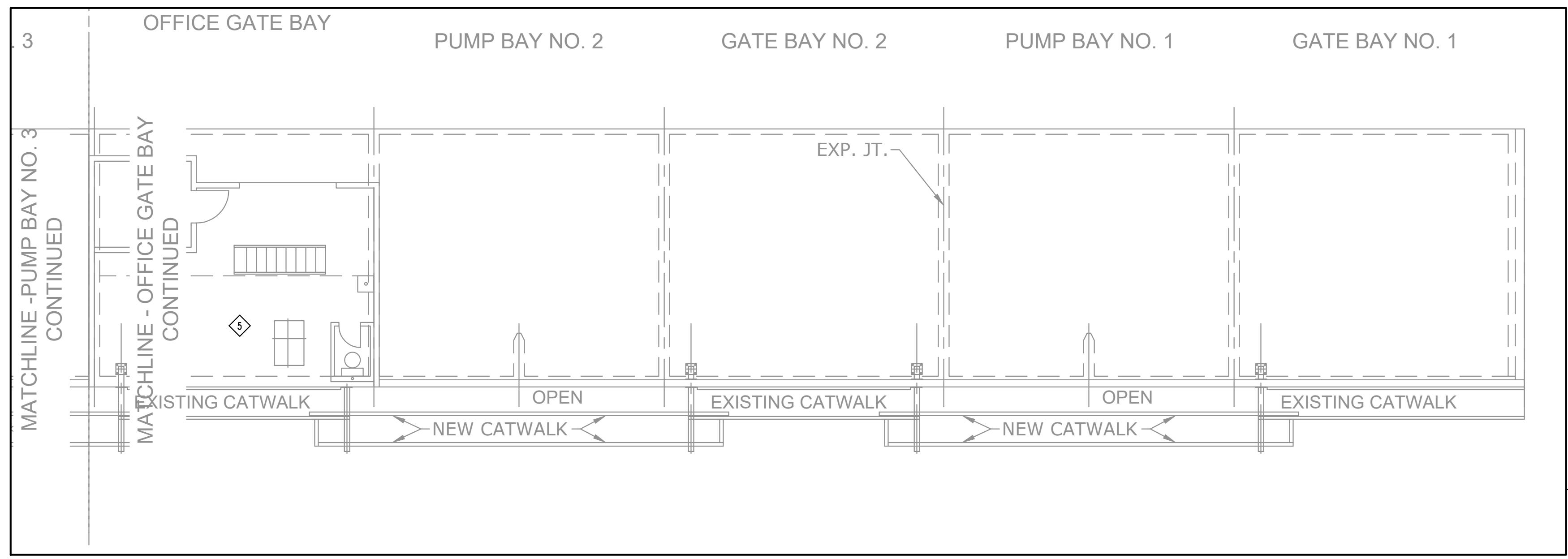
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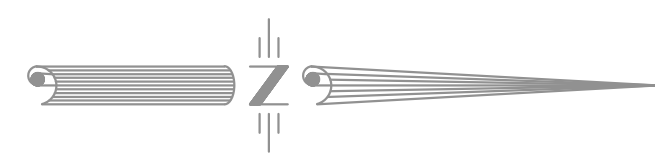
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PLAN
NEW CATWALK LOACTIONS
 PUMP BAYS 1 THRU 5
 SCALE: 1/8" = 1'-0"



PLAN
 PUMP BAYS 1 THRU 5
 SCALE: 1/8" = 1'-0"



SEE SHEET E231

SEE SHEET E232

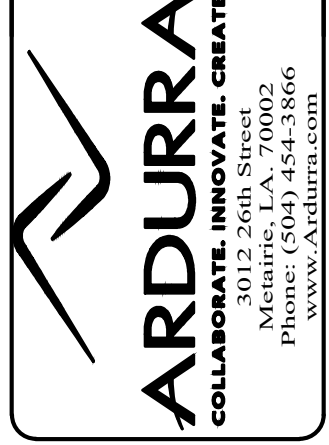
SPECIFIC NOTES – OLD PUMP STATION

- 1 NOT USED.
- 2 EXISTING ENGINE ENCLOSURE WILL BE REMOVED BY OTHER DIVISIONS OF WORK. DEMOLISH EXISTING LOAD CENTER INSIDE OF ENCLOSURE AND BRANCH CIRCUITS IN LOAD CENTER THAT FEED ENCLOSURE EXHAUST FANS AND LIGHTS. RELOCATE BATTERIES AND BATTERY CHARGER TO END OF ENGINE. RE-FEED BATTERY CHARGER AND JACKET WATER HEATER FROM NEW PANEL LL-P#, WHERE # IS THE PUMP NUMBER.
- 3 NOT USE.
- 4 PROVIDE A NEW PANELBOARD LL-P# AS SCHEDULED. # CORRESPONDS TO PUMP NUMBER. ROUTE 3#6, #8 GND IN 1-INCH CONDUIT FROM NEW PANEL BACK TO EXISTING PANEL, UTILIZING BREAKER THAT PREVIOUSLY SERVED ENGINE ENCLOSURE LOAD CENTER.
- 5 APPROXIMATE LOCATION OF EXISTING 208-VOLT PANELS. UTILIZE EXISTING 3P/60A CIRCUIT BREAKERS CURRENTLY FEEDING ENGINE ENCLOSURE LOAD CENTERS TO FEED NEW PANELS LL-P#. PROVIDE NEW CIRCUIT BREAKERS IN PANEL FOR CRANES AS INDICATED ON ENLARGED PLANS. PROVIDE TWO NEW 3P/60A CIRCUIT BREAKERS IN EXISTING PANEL TO FEED TWO NEW CRANES.
- 6 ROUTE 3#8, 2#12, #10 GND, #12 GND IN 1-INCH CONDUIT FROM PANEL LL-P# TO JUNCTION BOX AT JACKET WATER HEATER END OF ENGINE. FOLLOW FUEL PIPING FROM WALL TO ENGINE.
- 7 PROVIDE JUNCTION BOX AT ENGINE AND FLEX TO BATTERY CHARGER AND JACKET WATER HEATER WITH 2#12, #12 GND IN 3/4-INCH LFMC AND 3#8, #10 GND IN 1-INCH LFMC, RESPECTIVELY.
- 8 APPROXIMATE LOCATION OF GATE ACTUATOR FURNISHED UNDER OTHER DIVISIONS OF WORK. PROVIDE 3-POLE, 240-VOLT FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE FOR CONNECTION TO GATE ACTUATOR. ROUTE 3#12, #12 GND IN 3/4-INCH CONDUIT BACK TO PANEL LL-P#. MAKE FINAL CONNECTIONS TO ACTUATOR WITH LFMC.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: PVS	DESIGNED BY: PVS	DATE: 06/03/2021
CHECKED BY: PVS	CHECKED BY: PVS	DATE: 06/03/2021
APPROVED BY: PVS	APPROVED BY: PVS	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	PROJECT NO. PA-20-06-008	FILE NAME



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 OLD PUMP STATION

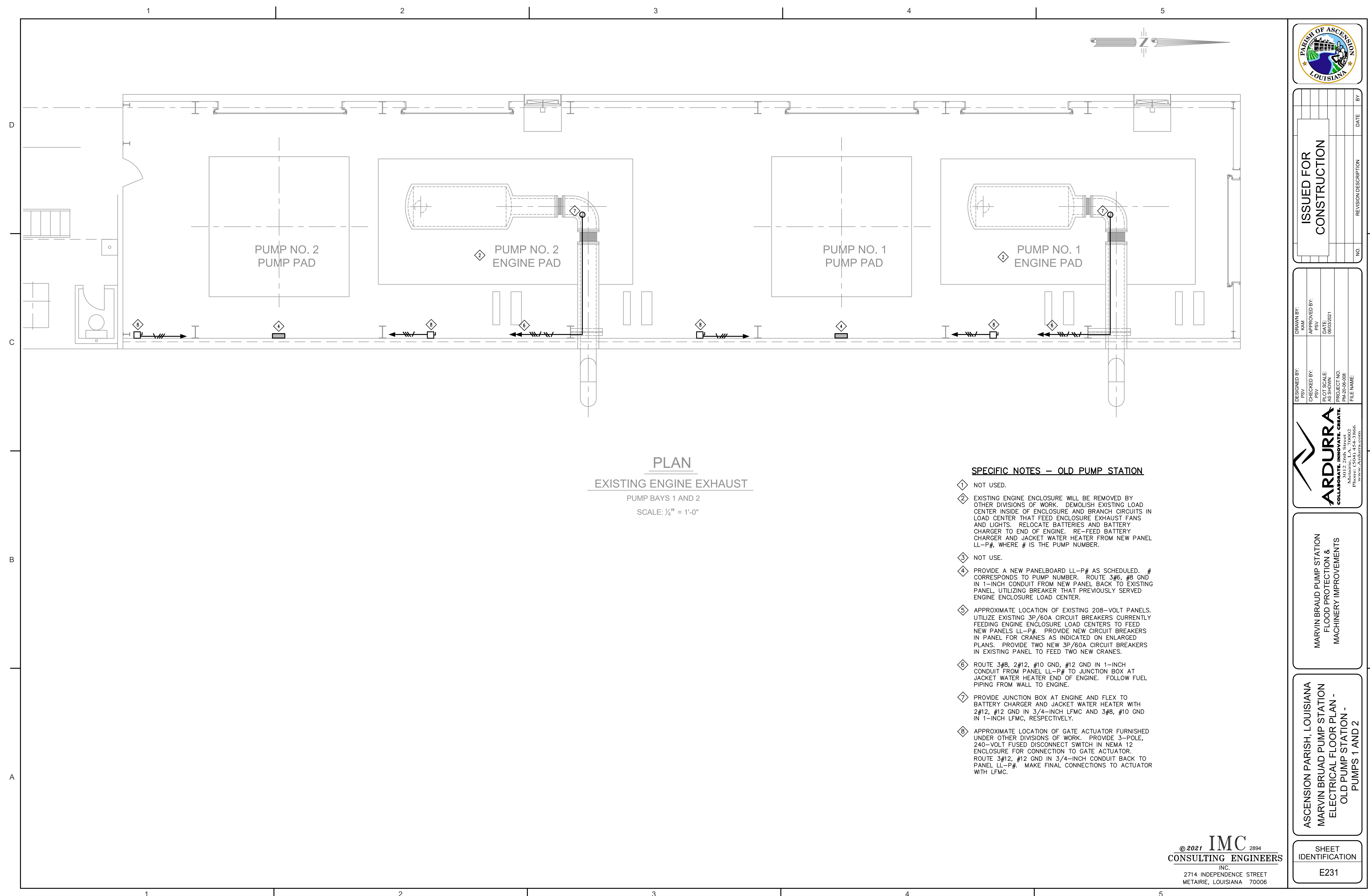
SHEET IDENTIFICATION
 E230

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 2714 INDEPENDENCE STREET
 METAIRIE, LOUISIANA 70006

SHEET SIZE 22"x34"
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 krc/hrs

M:\2894 SERIES\2894\2894-ELEC\Floor Plan - Old PumpStation.dwg

SHEET SIZE 27" x 34"
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 PUMPS 1 AND 2.dwg 6/23/2021 3:05 PM



PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 1 AND 2
 SCALE: 1/4" = 1'-0"

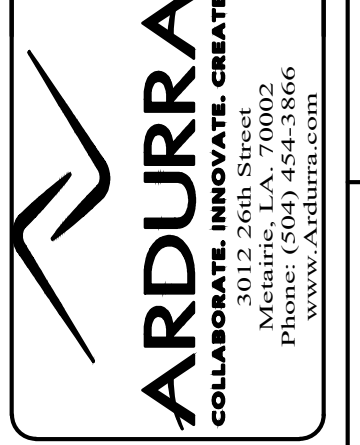
SPECIFIC NOTES – OLD PUMP STATION

- ① NOT USED.
- ② EXISTING ENGINE ENCLOSURE WILL BE REMOVED BY OTHER DIVISIONS OF WORK. DEMOLISH EXISTING LOAD CENTER INSIDE OF ENCLOSURE AND BRANCH CIRCUITS IN LOAD CENTER THAT FEED ENCLOSURE EXHAUST FANS AND LIGHTS. RELOCATE BATTERIES AND BATTERY CHARGER TO END OF ENGINE. RE-FEED BATTERY CHARGER AND JACKET WATER HEATER FROM NEW PANEL LL-P#, WHERE # IS THE PUMP NUMBER.
- ③ NOT USE.
- ④ PROVIDE A NEW PANELBOARD LL-P# AS SCHEDULED. # CORRESPONDS TO PUMP NUMBER. ROUTE 3#6, #8 GND IN 1-INCH CONDUIT FROM NEW PANEL BACK TO EXISTING PANEL, UTILIZING BREAKER THAT PREVIOUSLY SERVED ENGINE ENCLOSURE LOAD CENTER.
- ⑤ APPROXIMATE LOCATION OF EXISTING 208-VOLT PANELS. UTILIZE EXISTING 3P/60A CIRCUIT BREAKERS CURRENTLY FEEDING ENGINE ENCLOSURE LOAD CENTERS TO FEED NEW PANELS LL-P#. PROVIDE NEW CIRCUIT BREAKERS IN PANEL FOR CRANES AS INDICATED ON ENLARGED PLANS. PROVIDE TWO NEW 3P/60A CIRCUIT BREAKERS IN EXISTING PANEL TO FEED TWO NEW CRANES.
- ⑥ ROUTE 3#8, 2#12, #10 GND, #12 GND IN 1-INCH CONDUIT FROM PANEL LL-P# TO JUNCTION BOX AT JACKET WATER HEATER END OF ENGINE. FOLLOW FUEL PIPING FROM WALL TO ENGINE.
- ⑦ PROVIDE JUNCTION BOX AT ENGINE AND FLEX TO BATTERY CHARGER AND JACKET WATER HEATER WITH 2#12, #12 GND IN 3/4-INCH LFMC AND 3#8, #10 GND IN 1-INCH LFMC, RESPECTIVELY.
- ⑧ APPROXIMATE LOCATION OF GATE ACTUATOR FURNISHED UNDER OTHER DIVISIONS OF WORK. PROVIDE 3-POLE, 240-VOLT FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE FOR CONNECTION TO GATE ACTUATOR. ROUTE 3#12, #12 GND IN 3/4-INCH CONDUIT BACK TO PANEL LL-P#. MAKE FINAL CONNECTIONS TO ACTUATOR WITH LFMC.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: PVS	APPROVED BY: PVS
PLotted BY: AES	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	FILE NAME:



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 OLD PUMP STATION -
 PUMPS 1 AND 2

SHEET IDENTIFICATION
E231

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 METAIRIE, LOUISIANA 70006

M:\2800 SERIES\2894\2894-ELEC\Floor Plan - Old PumpStation - Pumps 1 and 2.dwg

1

2

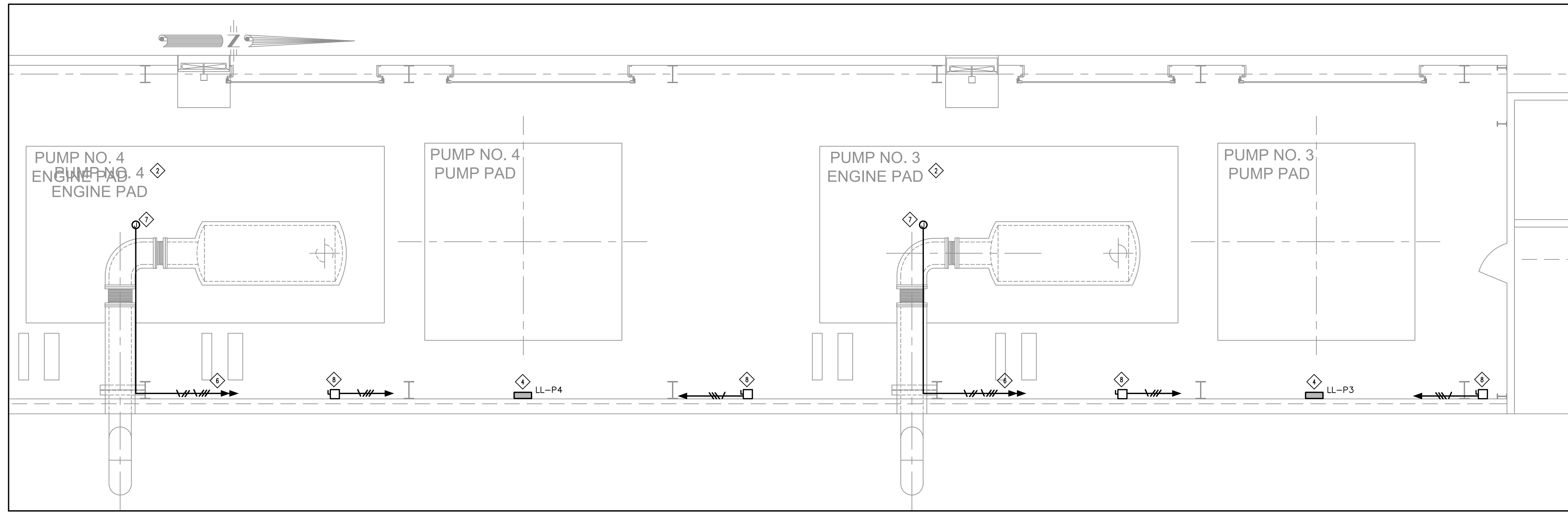
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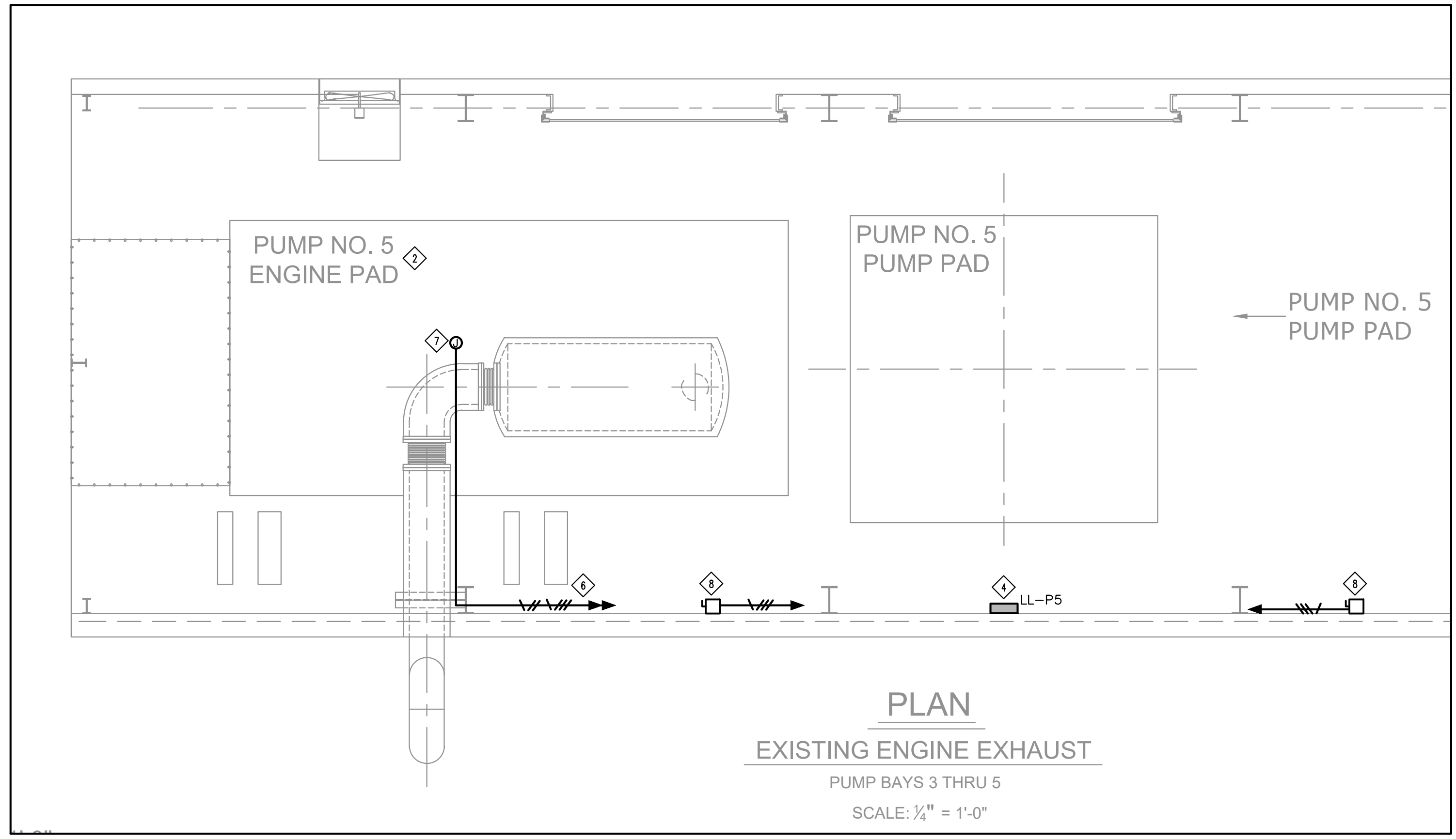
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PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 1 AND 2
 SCALE: 1/4" = 1'-0"

B

A



PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 3 THRU 5
 SCALE: 1/4" = 1'-0"

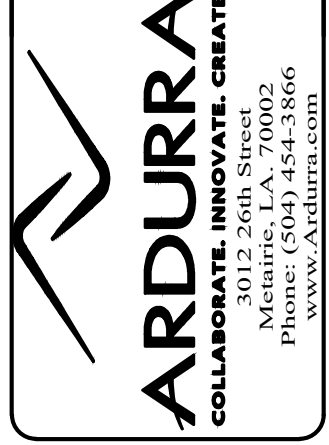
SPECIFIC NOTES – OLD PUMP STATION

- 1 NOT USED.
- 2 EXISTING ENGINE ENCLOSURE WILL BE REMOVED BY OTHER DIVISIONS OF WORK. DEMOLISH EXISTING LOAD CENTER INSIDE OF ENCLOSURE AND BRANCH CIRCUITS IN LOAD CENTER THAT FEED ENCLOSURE EXHAUST FANS AND LIGHTS. RELOCATE BATTERIES AND BATTERY CHARGER TO END OF ENGINE. RE-FEED BATTERY CHARGER AND JACKET WATER HEATER FROM NEW PANEL LL-P#, WHERE # IS THE PUMP NUMBER.
- 3 NOT USED.
- 4 PROVIDE A NEW PANELBOARD LL-P# AS SCHEDULED. # CORRESPONDS TO PUMP NUMBER. ROUTE 3#6, #8 GND IN 1-INCH CONDUIT FROM NEW PANEL BACK TO EXISTING PANEL, UTILIZING BREAKER THAT PREVIOUSLY SERVED ENGINE ENCLOSURE LOAD CENTER.
- 5 APPROXIMATE LOCATION OF EXISTING 208-VOLT PANELS. UTILIZE EXISTING 3P/60A CIRCUIT BREAKERS CURRENTLY FEEDING ENGINE ENCLOSURE LOAD CENTERS TO FEED NEW PANELS LL-P#. PROVIDE NEW CIRCUIT BREAKERS IN PANEL FOR CRANES AS INDICATED ON ENLARGED PLANS. PROVIDE TWO NEW 3P/60A CIRCUIT BREAKERS IN EXISTING PANEL TO FEED TWO NEW CRANES.
- 6 ROUTE 3#8, 2#12, #10 GND, #12 GND IN 1-INCH CONDUIT FROM PANEL LL-P# TO JUNCTION BOX AT JACKET WATER HEATER END OF ENGINE. FOLLOW FUEL PIPING FROM WALL TO ENGINE.
- 7 PROVIDE JUNCTION BOX AT ENGINE AND FLEX TO BATTERY CHARGER AND JACKET WATER HEATER WITH 2#12, #12 GND IN 3/4-INCH LFMC AND 3#8, #10 GND IN 1-INCH LFMC, RESPECTIVELY.
- 8 APPROXIMATE LOCATION OF GATE ACTUATOR FURNISHED UNDER OTHER DIVISIONS OF WORK. PROVIDE 3-POLE, 240-VOLT FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE FOR CONNECTION TO GATE ACTUATOR. ROUTE 3#12, #12 GND IN 3/4-INCH CONDUIT BACK TO PANEL LL-P#. MAKE FINAL CONNECTIONS TO ACTUATOR WITH LFMC.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	APPROVED BY:
DRAWN BY:	DATE:
PROJECT NO.:	FILE NAME:
PLANT SCALE:	
DATE:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 OLD PUMP STATION -
 PUMPS 3.4 AND 5

SHEET IDENTIFICATION
 E232

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 2714 INDEPENDENCE STREET
 METAIRIE, LOUISIANA 70006

SHEET SIZE 27" x 34"
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 PUMPS 3.4 AND 5 - 6/2/2021 3:06 PM

M:\2020 SERIES\2894\ELEC\Floor Plan - Old Pump Station - Pumps 3.4 and 5.dwg

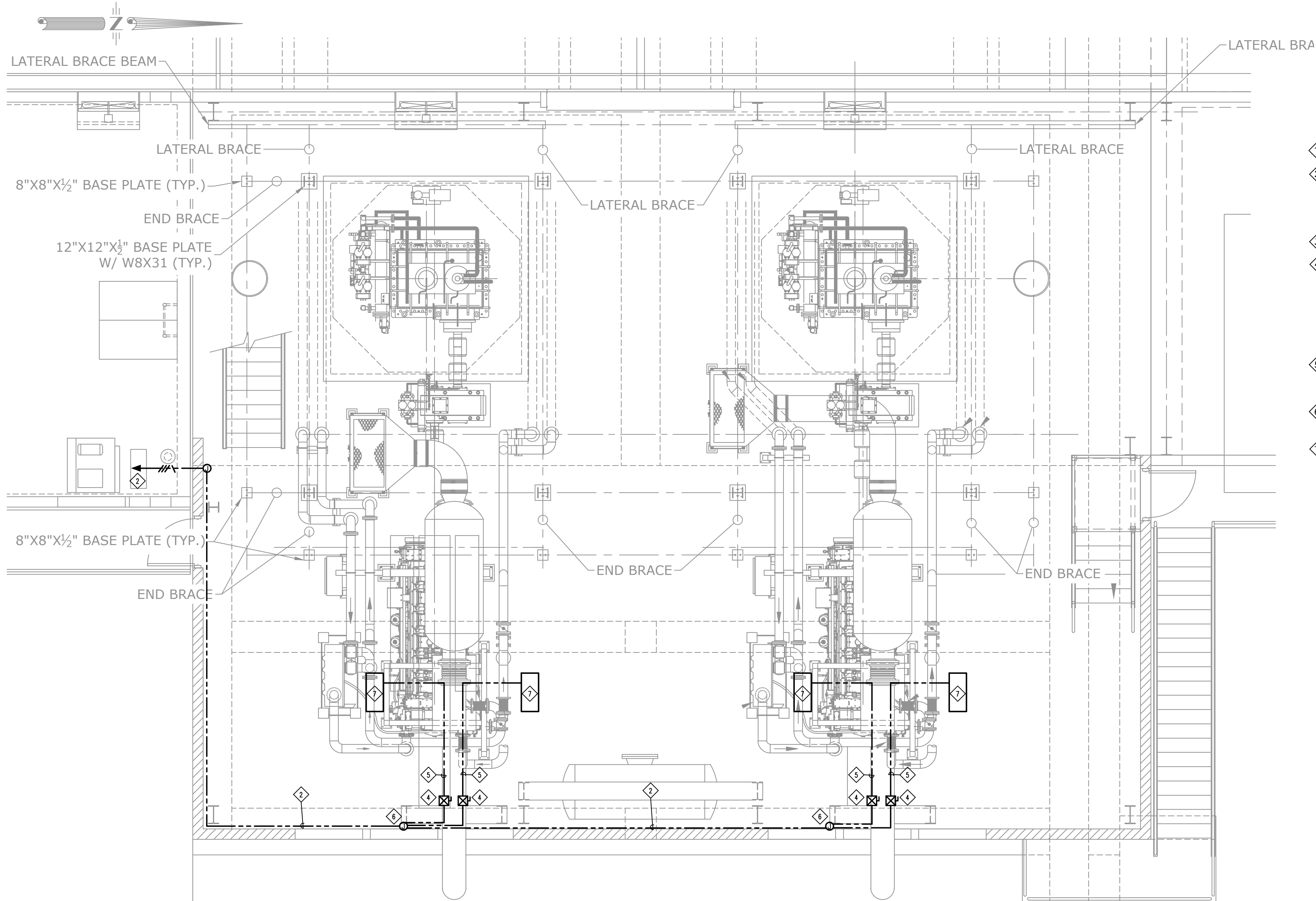
1

2

3

4

5



PLAN
CRANE SUPPORT PLACEMENT
 PUMP BAYS 6 AND 7
 SCALE: 1/4" = 1'-0"

MOTOR CONTROL CENTER
 (MCC IS LOCATED IN NEW STATION GENERATOR/ELECTRICAL ROOM, SEE SHEET E100.)

SPECIFIC NOTES – NEW PUMP STATION

- 1 NOT USED.
- 2 PROVIDE 3P/50A CIRCUIT BREAKER IN EXISTING MOTOR CONTROL CENTER TO FEED NEW WINCHES. ROUTE 3#8, #10 GND IN 1-INCH CONDUIT FROM MCC TO DISCONNECT COMBINATION MOTOR CONTROLLERS FOR WINCHES.
- 3 NOT USED.
- 4 PROVIDE 480-VOLT, FUSED TYPE, FVR COMBINATION MOTOR STARTER IN NEMA 12 ENCLOSURE FOR WINCH. STARTER SHALL BE SIZE 1 WITH OVERLOAD RELAY SELECTED FOR MOTOR TYPE AND HP PROVIDED. CONTACTOR SHALL BE 120-VOLTS; PROVIDE INTEGRAL CPT FOR OPERATOR INTERFACE. ENCLOSURE SHALL BE NEMA TYPE 12 WITH RAISE AND LOWER MOMENTARY PUSH BUTTONS.
- 5 ROUTE 3#10, #10 GND IN 3/4-INCH CONDUIT FROM STARTER TO WINCH. ROUTE CONDUIT IN FUEL TRENCH FROM WALL TO ENGINE PIT.
- 6 TAP FEEDER AND ROUTE 3#10, #10 GND IN 3/4-INCH CONDUIT FROM JB TO STARTER.
- 7 APPROXIMATE LOCATION OF WINCH PROVIDED BY OTHER DIVISIONS OF WORK. PROVIDE POWER TO WINCH FROM MOTOR STARTER.



ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: RVS	APPROVED BY: RVS
DATE: 06/03/2021	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	FILE NAME

ARDURRA
 COLLABORATE. INNOVATE. CREATE.
 3012 26th Street
 Metairie, LA 70002
 P. 504.885.8800
 WWW.ARDURRA.COM

MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 NEW PUMP STATION

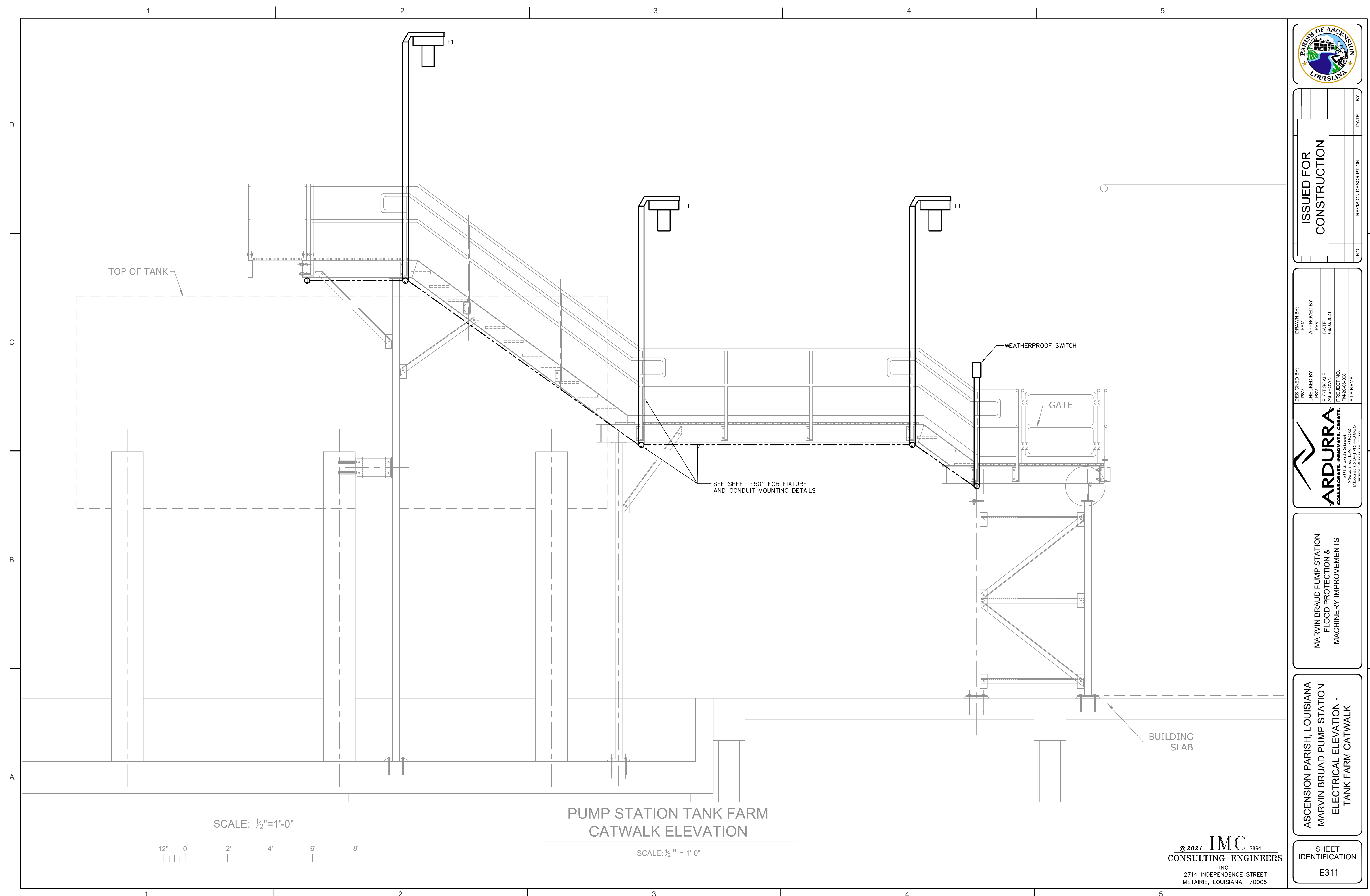
SHEET IDENTIFICATION
E240

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 2714 INDEPENDENCE STREET
 METAIRIE, LOUISIANA 70006

SHEET SIZE 22"x34"
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SHEET SIZE 22"x34"
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6/2/2021 3:07 PM
Architect



TOP OF TANK

WEATHERPROOF SWITCH

GATE

SEE SHEET E501 FOR FIXTURE AND CONDUIT MOUNTING DETAILS

BUILDING SLAB

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



PUMP STATION TANK FARM CATWALK ELEVATION

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

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2714 INDEPENDENCE STREET
METAIRIE, LOUISIANA 70006



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: PVS	APPROVED BY: PVS
PROJECT NO: PA-20-06-008	DATE: 06/03/2021
FILE NAME:	

ARDURRA
COLLABORATE. INNOVATE. CREATE.
3012 26th Street
Metairie, LA 70002
P: 504.885.1000
WWW.ARDURRA.COM

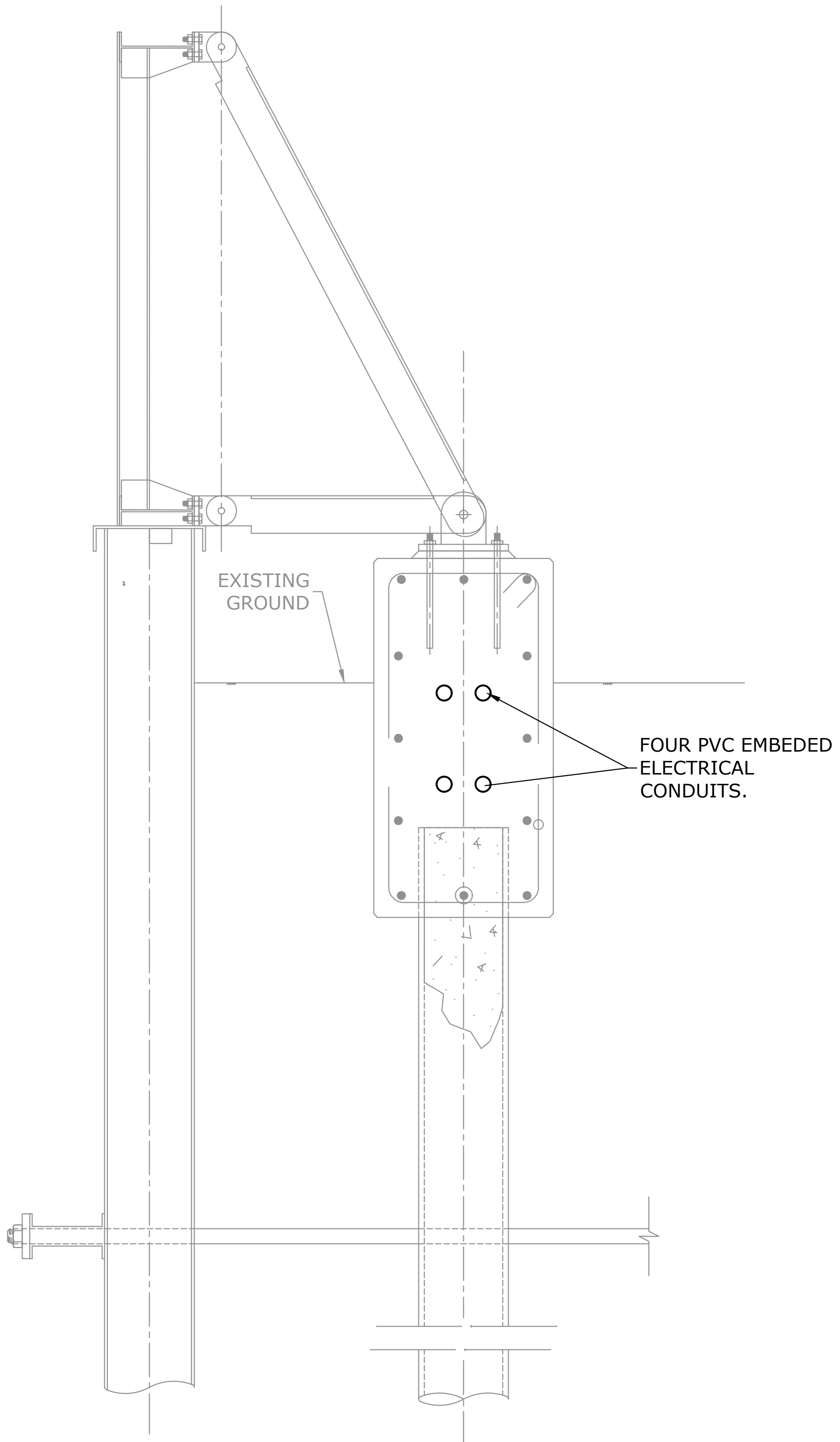
MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL ELEVATION -
TANK FARM CATWALK

SHEET IDENTIFICATION
E311

M:\2800 SERIES\2894\2894-ELEC-ELEV-311-ELEVATION - Tank Farm Catwalk.dwg

SHEET SIZE 22"x34"
 M:\2800 SERIES\2894\2894-ELEC\320-ELEC SECTION - NORTH FLOOD PROTECTION
 GRADE BEAM.dwg 6/23/2021 3:08 PM



FLOOD PANEL GRADE BEAM SUPPORT

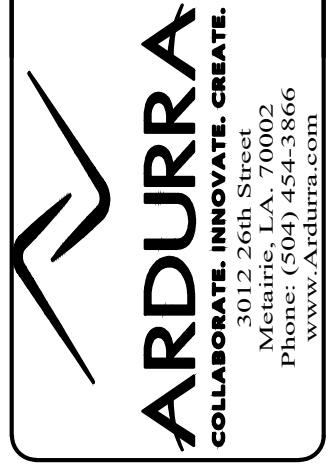
SCALE: 1" = 1'-0"

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NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: RSM	APPROVED BY: RSM
PROJECT NO: PA-20-06-008	DATE: 06/03/2021
FILE NAME:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL SECTION -
 NORTH FLOOD PROTECTION
 GRADE BEAM

SHEET IDENTIFICATION
E320

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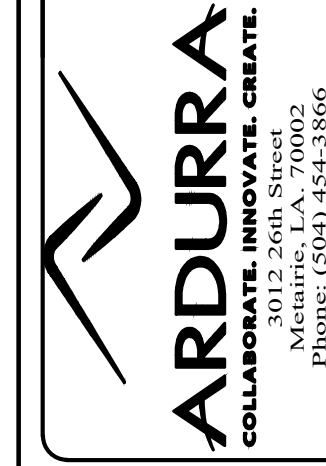
SPECIFIC NOTES -PHOTOS

- ① NFP CIRCUIT 1 – POWER TO BARRIER GATE AND FLOOD LIGHT. REROUTE POWER FROM DISCONNECT, OVER BOAT LOCK VIA STRUT TOWER PROVIDED BY OTHER DIVISIONS OF WORK, TO RELOCATED BARRIER GATE AND NEW FLOODLIGHTS. SEE SHEET E220 FOR FURTHER DETAILS.
- ② NFP CIRCUIT 2 – CONTROL WIRING TO BOAT LOCK PUSH BUTTONS. PROVIDE NEW JUNCTION BOX AT EXISTING SUPPORT AND REROUTE CONTROLS OVER BOAT LOCK VIA STRUT TOWER PROVIDED BY OTHER DIVISIONS OF WORK, TO EXISTING PUSH BUTTONS. SEE SHEET E220 FOR FURTHER DETAILS.
- ③ NFP CIRCUIT 3 – SCADA CABLE TO WATER LEVEL MONITORING EQUIPMENT ON SUCTION AND DISCHARGE SIDE OF STATION. DISCONNECT AND RECONNECT CABLE ONCE NORTH SIDE PROTECTION WALL IS COMPLETE. SEE SHEET E220 FOR FURTHER DETAILS.
- ④ NFP CIRCUIT 4 – CABLE TO VIDEO SURVEILLANCE CAMERA. DISCONNECT AND RECONNECT CABLE ONCE NORTH SIDE PROTECTION WALL IS COMPLETE.
- ⑤ NFP CIRCUIT 5 – FEEDER FOR LOAD CENTER ON NORTH SIDE OF CHANNEL. PROTECT EXISTING OVERHEAD FEEDER THROUGHOUT CONSTRUCTION.
- ⑥ CONDUIT AND CONTROL WIRING TO PUSH BUTTONS ON EITHER SIDE OF BOAT LOCK. UTILIZE / SALVAGE EXISTING CONDUIT AND CABLES AS ABLE. WHERE REQUIRED TO FACILITATE CONSTRUCTION OF NEW FLOOD PROTECTION PANELS, PROVIDE NEW JUNCTION BOXES, CONDUIT AND CABLES TO PUSH BUTTONS. CABLE SHALL MATCH EXISTING; FOR BID PURPOSES, ASSUME 2-CONDUCTOR #14 FOR EACH PUSH BUTTON (6 CONDUCTORS TOTAL). SEE SHEET E220 FOR FURTHER DETAILS.
- ⑦ REMOVE EXISTING CONDUIT UP TO FLOOD LIGHT.
- ⑧ SALVAGE FLOOD LIGHT AND PHOTOCELL FOR REUSE.
- ⑨ DISCHARGE SIDE SCADA BOX. SALVAGE BOX AND INSTRUMENTATION, INCLUDING STILL WELL, FOR RE-INSTALLATION ONCE FLOOD PROTECTION PANELS ARE CONSTRUCTED.
- ⑩ EXISTING SCADA CABLE FROM PUMP STATION TO INSTRUMENTATION EQUIPMENT ON SUCTION SIDE OF CANAL.
- ⑪ EXISTING PUSH BUTTON STATION MOUNTED LOW (BOAT ACCESSIBLE) ON SUCTION SIDE OF BOAT LOCK (DISCHARGE SIDE SIMILAR). PROTECT STATION AND ASSOCIATED CONDUIT AND CONDUCTORS THROUGHOUT CONSTRUCTION.
- ⑫ CABLE BACK TO SCADA BOX ON DISCHARGE SIDE OF STATION (FROM SCADA EQUIPMENT ON SUCTION SIDE).
- ⑬ CONDUIT TO/FROM SUCTION SIDE SCADA EQUIPMENT. SALVAGE CONDUIT AS POSSIBLE.
- ⑭ CONDUIT FROM SCADA EQUIPMENT DISAPPEARS BELOW GRADE. TRACE CONDUIT; PROTECT THROUGHOUT CONSTRUCTION.
- ⑮ SUCTION SIDE SCADA EQUIPMENT. PROTECT EQUIPMENT AND INSTRUMENTATION, INCLUDING STILL WELL, THROUGHOUT CONSTRUCTION.
- ⑯ REMOVE CAMERA PRIOR TO CONSTRUCTION OF NORTH FLOOD PROTECTION PANELS; SALVAGE FOR INSTALLATION ONCE PANEL CONSTRUCTION IS COMPLETE.
- ⑰ DISCONNECT, SALVAGE, RECONNECT EXISTING CABLE TO CAMERA.



ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	DRAWN BY:
REVISED BY:	CHECKED BY:
PLotted SCALE:	DATE:
PROJECT NO.:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEC SPECIFIC NOTES -
PHOTOS - NORTH OF STATION

SHEET
IDENTIFICATION
E420



1 CIRCUITS CROSSING BOAT LOCK AT RAILING
SCALE: N.T.S.



2 CIRCUITS CROSSING BOAT LOCK - AERIAL
SCALE: N.T.S.



3 CIRCUITS 1 - 3
SCALE: N.T.S.



4 CONNECTION TO PUSH BUTTON STATION
SCALE: N.T.S.



5 CONNECTION TO BARRIER GATE OPERATOR
SCALE: N.T.S.



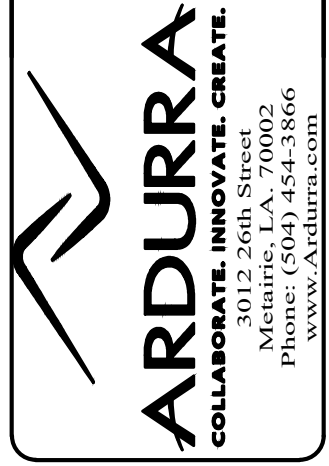
6 EXISTING PHOTOCELL AND FLOODLIGHT
SCALE: N.T.S.

SEE SHEET E420 FOR SPECIFIC NOTES



ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	DESIGNED BY:	DESIGNED BY:	DESIGNED BY:
REVISED BY:	REVISED BY:	REVISED BY:	REVISED BY:
DATE:	DATE:	DATE:	DATE:
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:	FILE NAME:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEC SITE PLAN - PHOTOS -
NORTH OF STATION

SHEET IDENTIFICATION
E421

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INC.
2714 INDEPENDENCE STREET
METAIRIE, LOUISIANA 70006

SHEET SIZE 22" x 34"
M:\2020 SERIES\2894\2894-ELEC-SITE PLAN - PHOTOS - NORTH OF STATION.dwg
6/2/2021 3:09 PM

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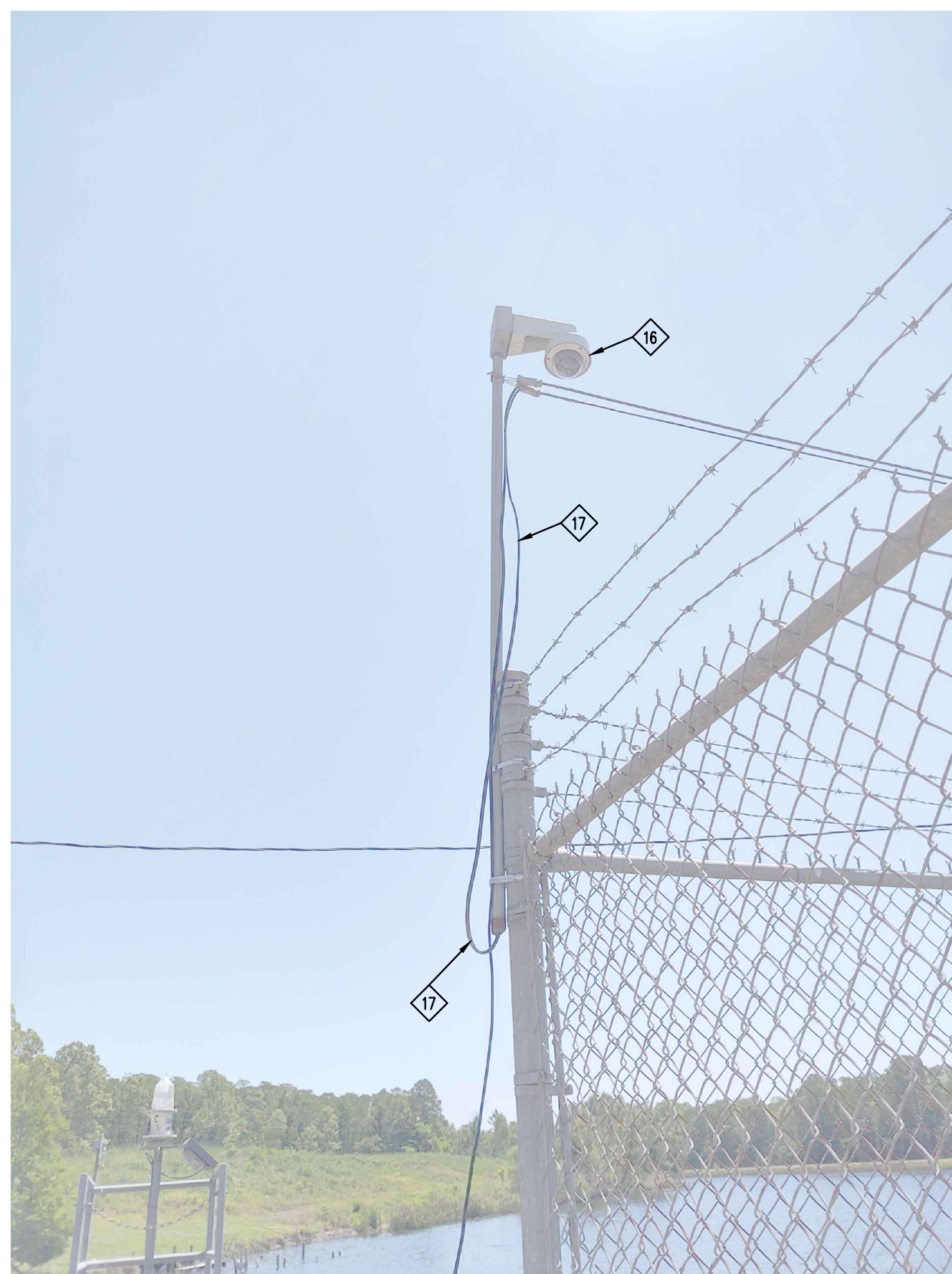
1 PUSH BUTTON STATION AT BOAT LOCK (TYP)
SCALE: N.T.S.



2 SCADA EQUIPMENT - SUCTION SIDE
SCALE: N.T.S.



3 CLOSEUP - SCADA CABLES
SCALE: N.T.S.



4 EXISTING SURVEILLANCE CAMERA
SCALE: N.T.S.



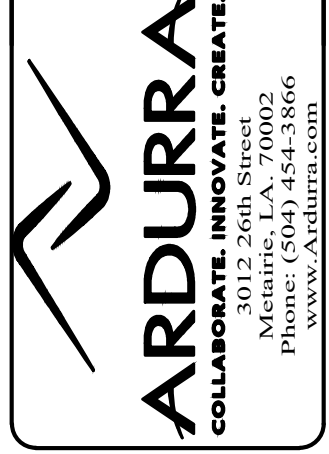
5 LOAD CENTER ON NORTH SIDE OF CHANNEL
SCALE: N.T.S.

SEE SHEET E420 FOR
SPECIFIC NOTES



ISSUED FOR CONSTRUCTION	NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	APPROVED BY:
PSY: JAV	PSY: JAV
PROJECT NO.:	DATE:
PA-20-06-008	06/03/2021
FILE NAME:	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

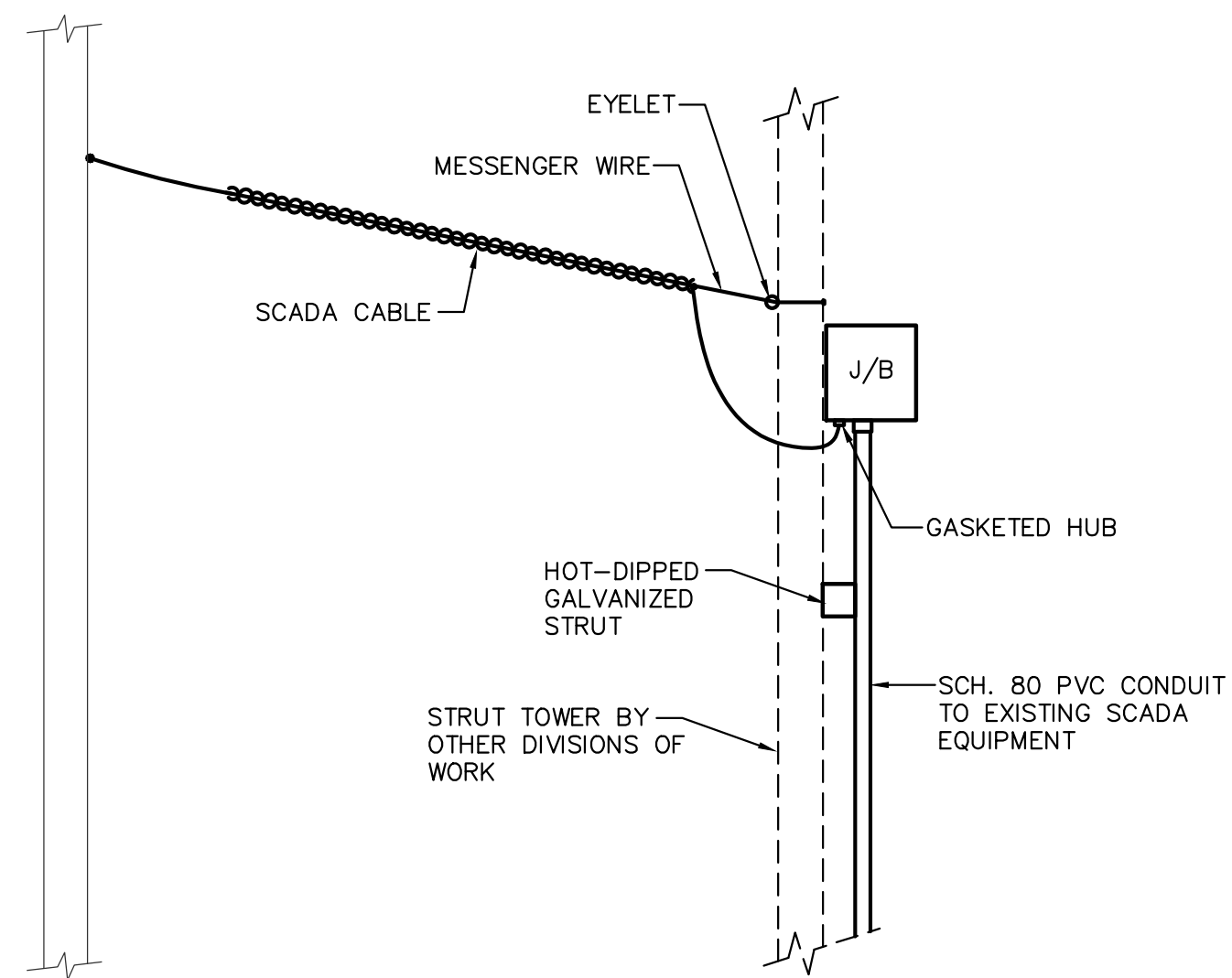
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEC SITE PLAN - PHOTOS -
NORTH OF STATION

SHEET
IDENTIFICATION
E422

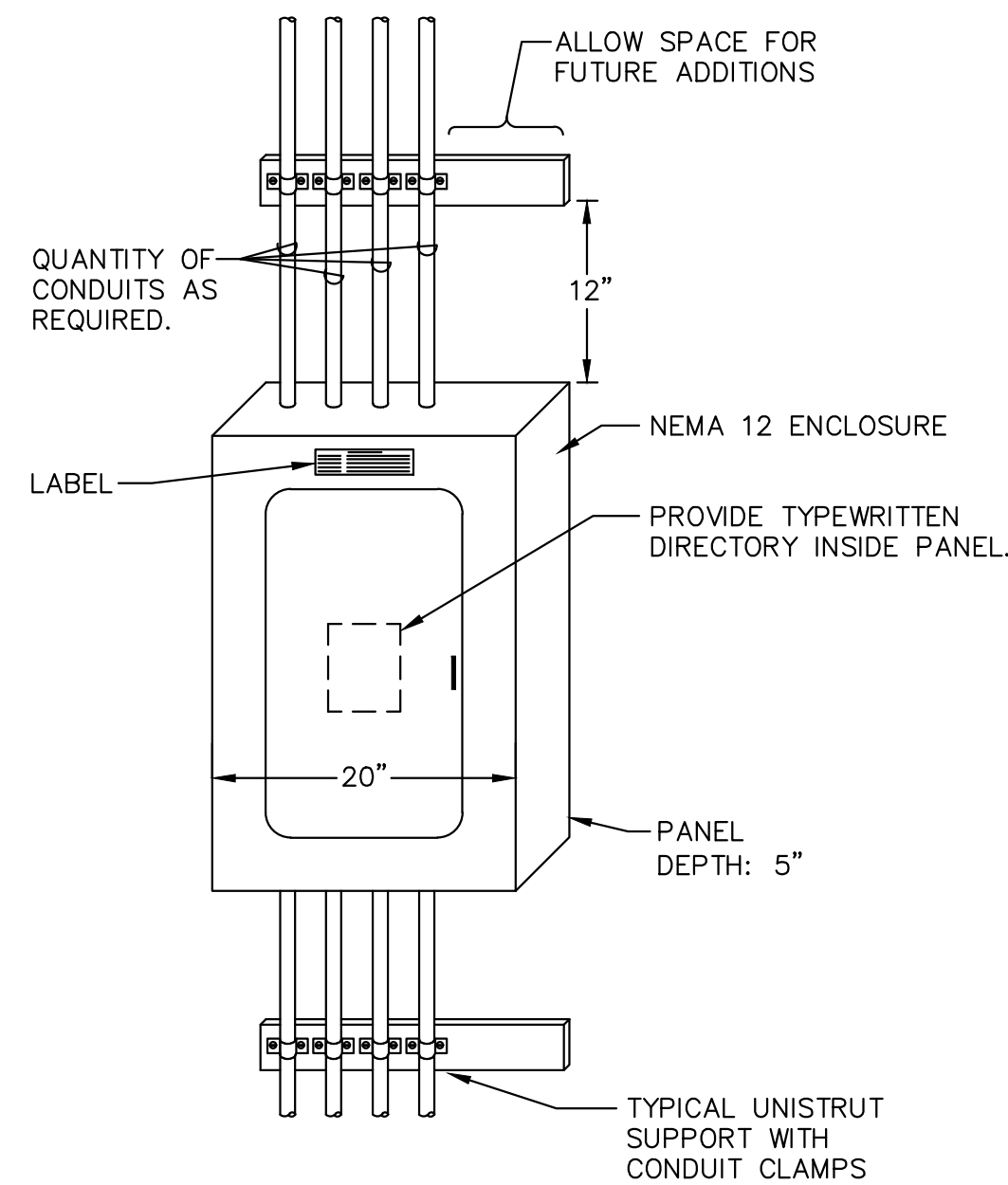
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SHEET SIZE 22" x 34"
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5/7/2021 3:03 PM

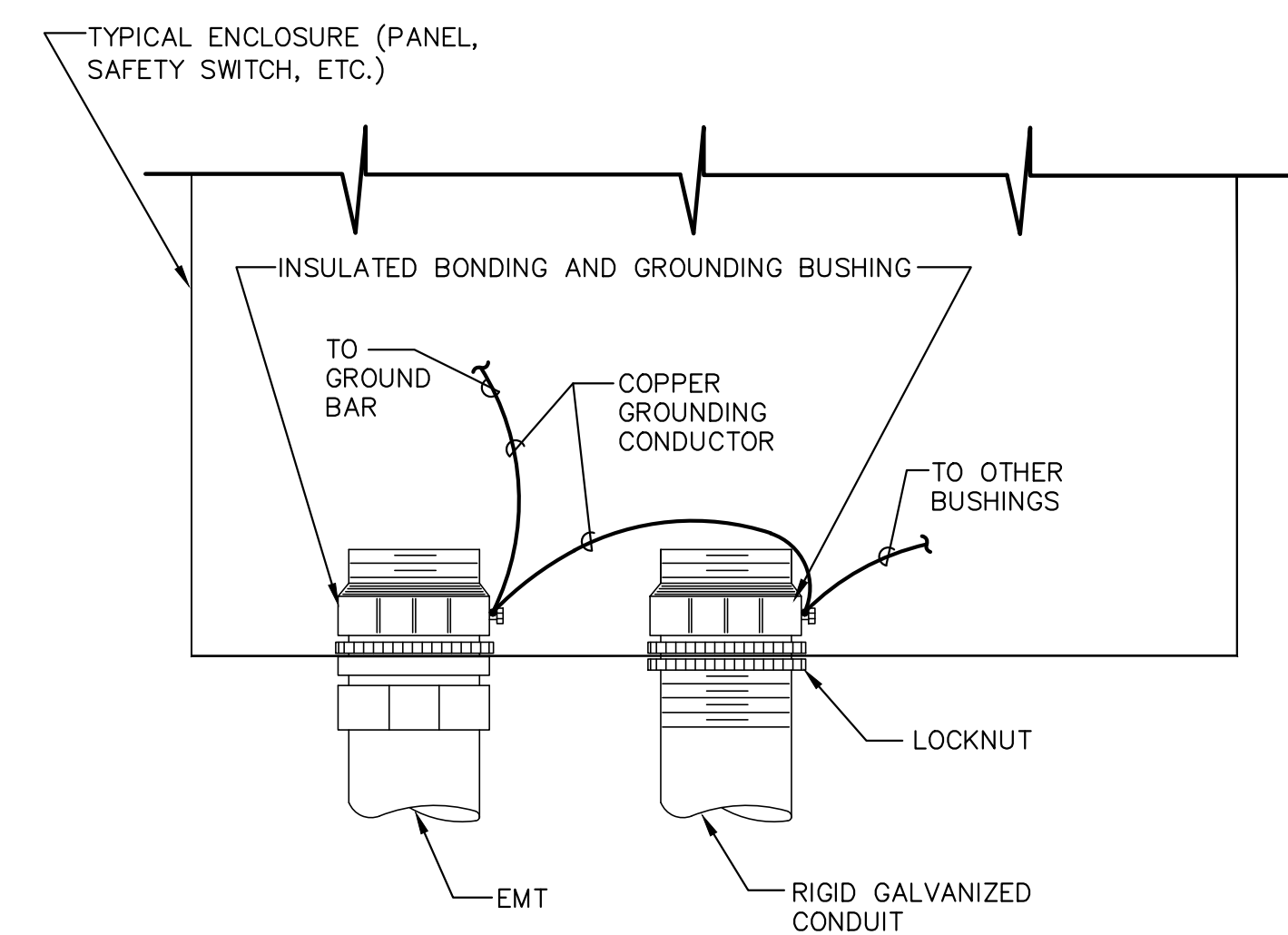
M:\2020 SERIES\2894\2894-ELEC\2894-E422-Elec Site Plan - Photos - North of Station.dwg



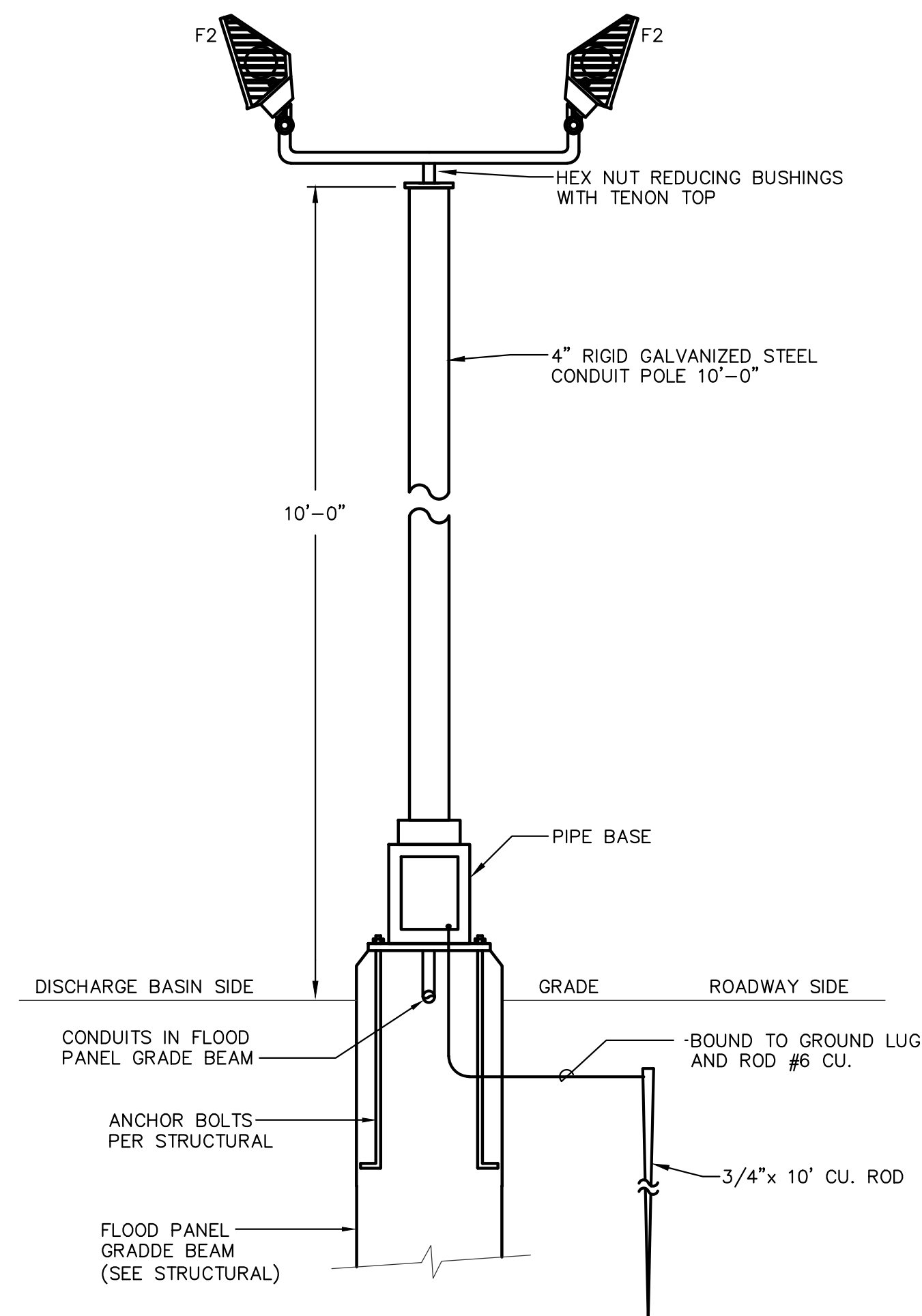
1 SCADA CABLE ATTACHMENT TO STRUT TOWER
SCALE: N.T.S.



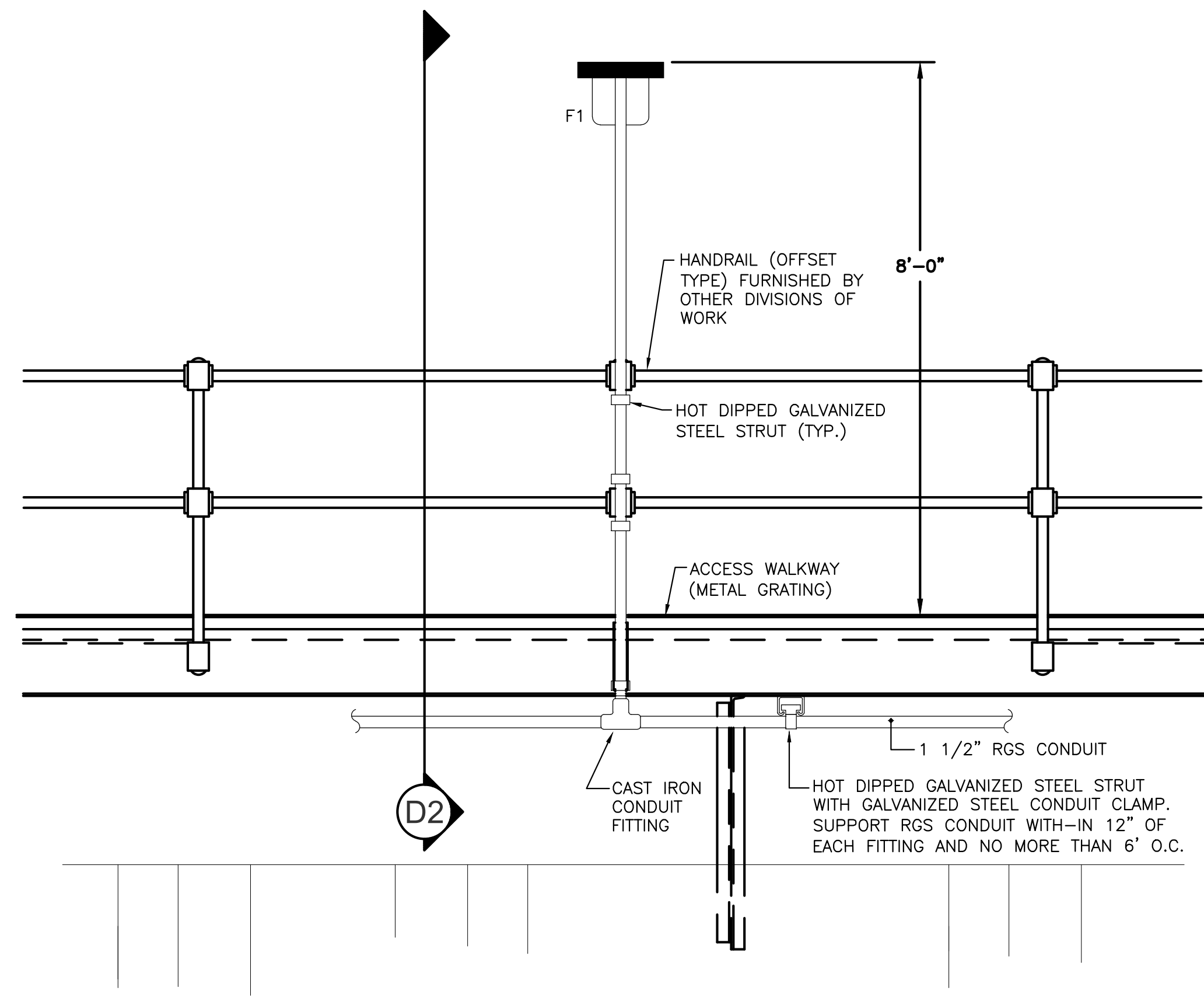
3 PANEL INSTALLATION SURFACE MOUNT
SCALE: N.T.S.



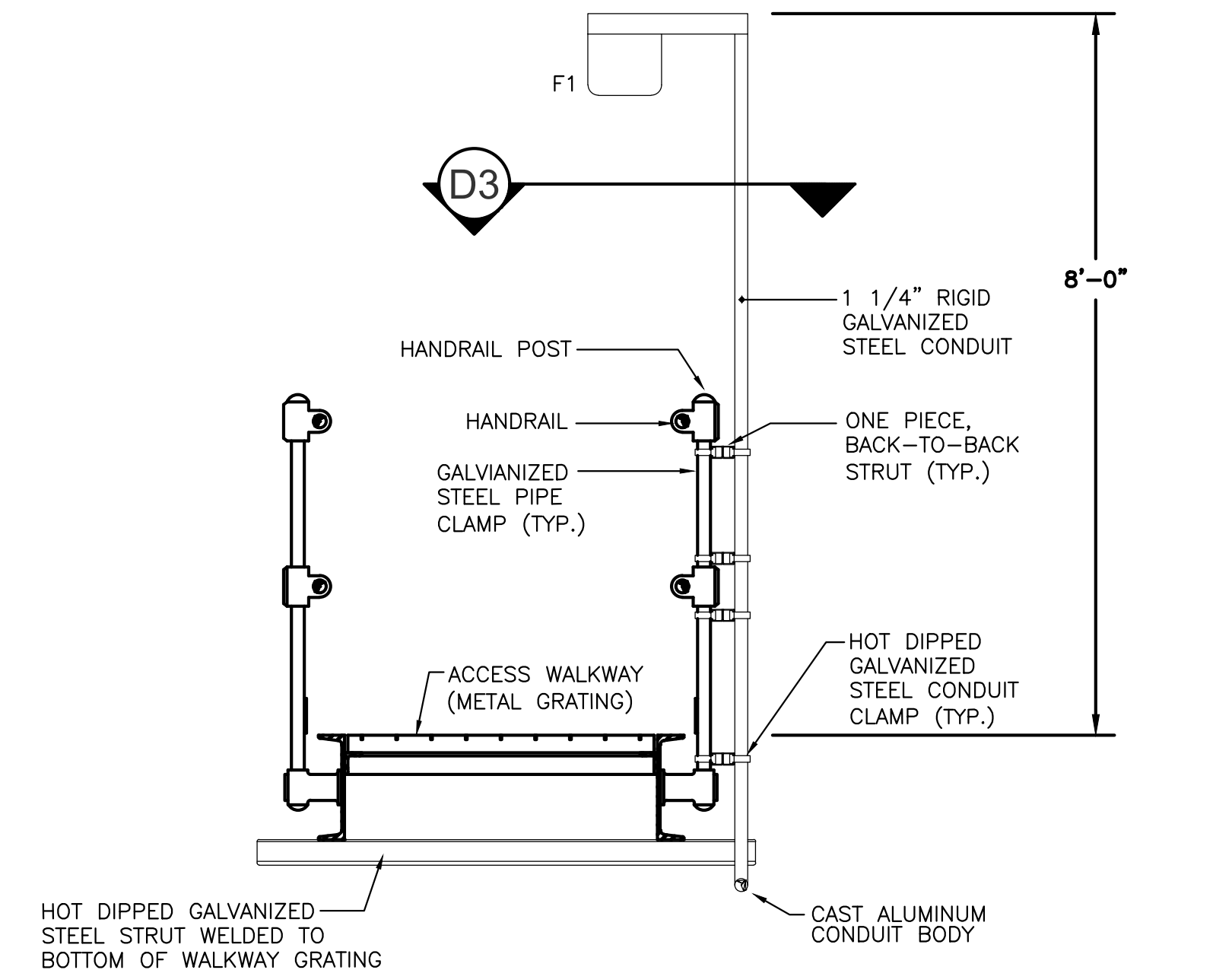
4 GROUNDING BUSHING DETAIL
SCALE: N.T.S.



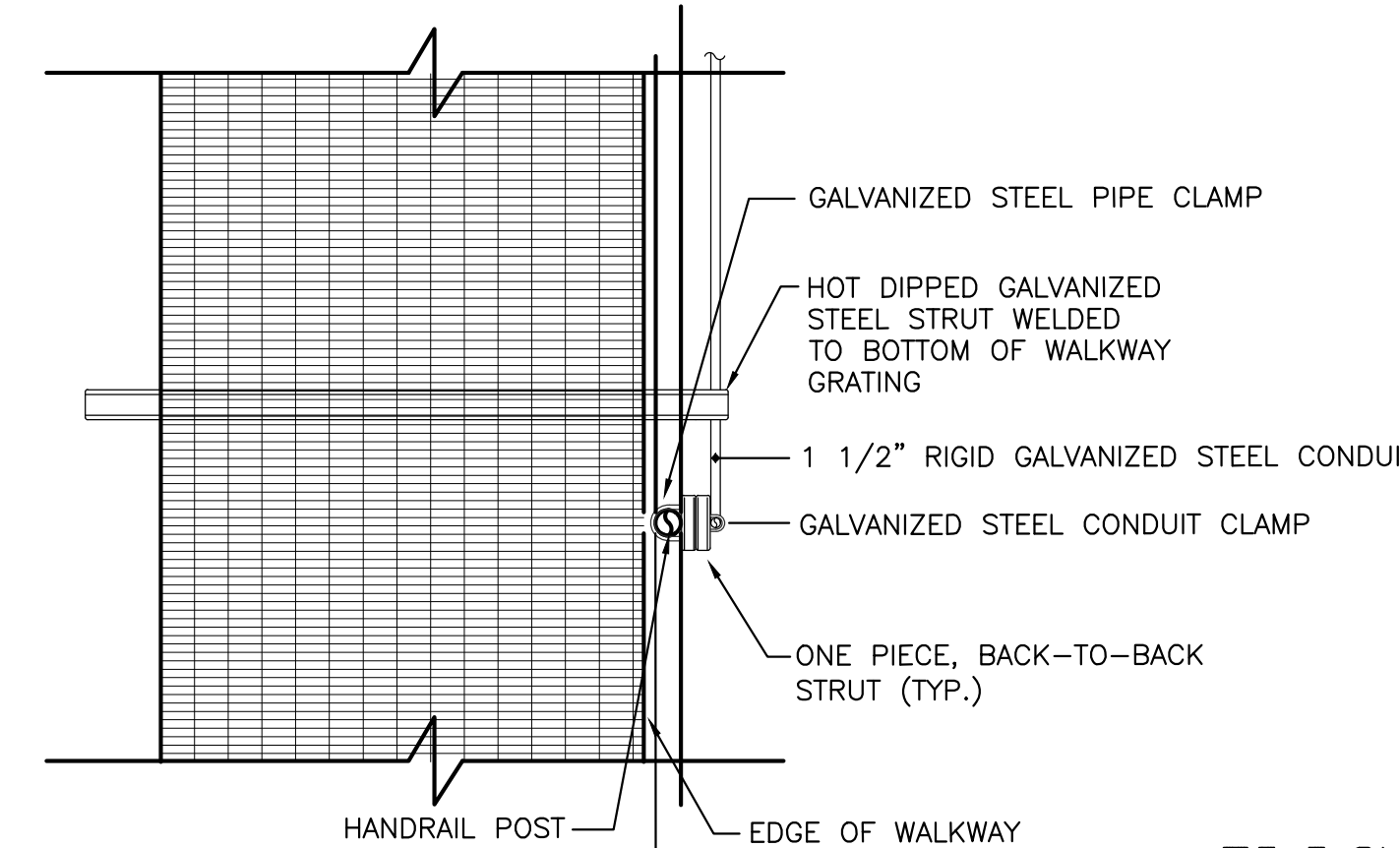
2 LIGHTING - NORTH FLOOD PROTECTION
SCALE: N.T.S.



D1 WALKWAY LIGHT FIXTURE
SCALE: NONE



D2 SECTION
SCALE: NONE



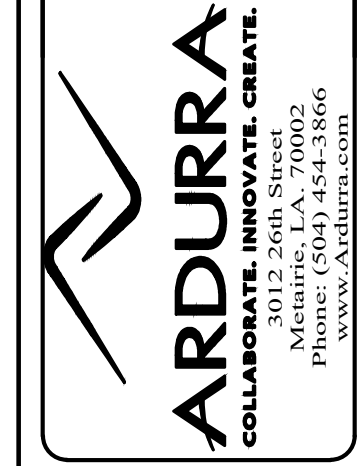
D3 SECTION
SCALE: NONE

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NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: REVISED BY: CHECKED BY:	APPROVED BY: DATE: DATE:
PROJECT NO. PROJECT NO.	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL DETAILS

SHEET
IDENTIFICATION
E501

SHEET SIZE 22" x 34"
M:\2894 SERIES\2894-ELEC\2894-E501-ELEC DETAILS
6/23/2021 3:10 PM
krc/hrs

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