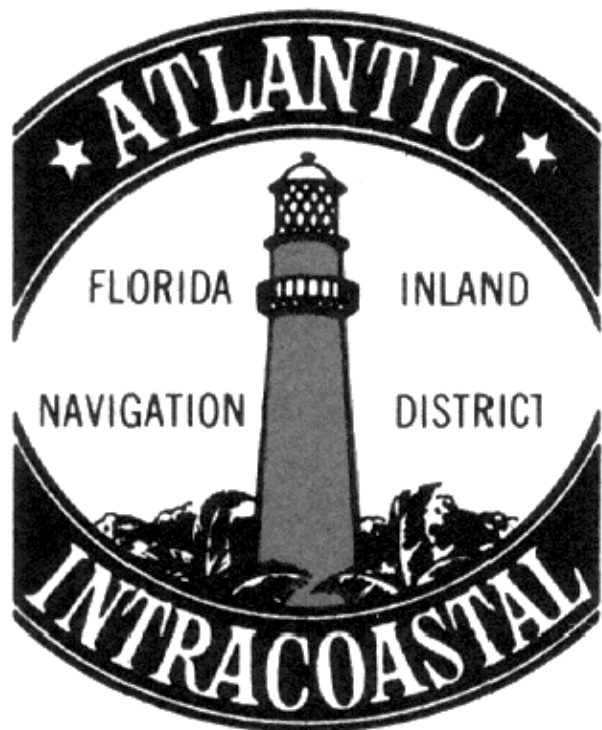


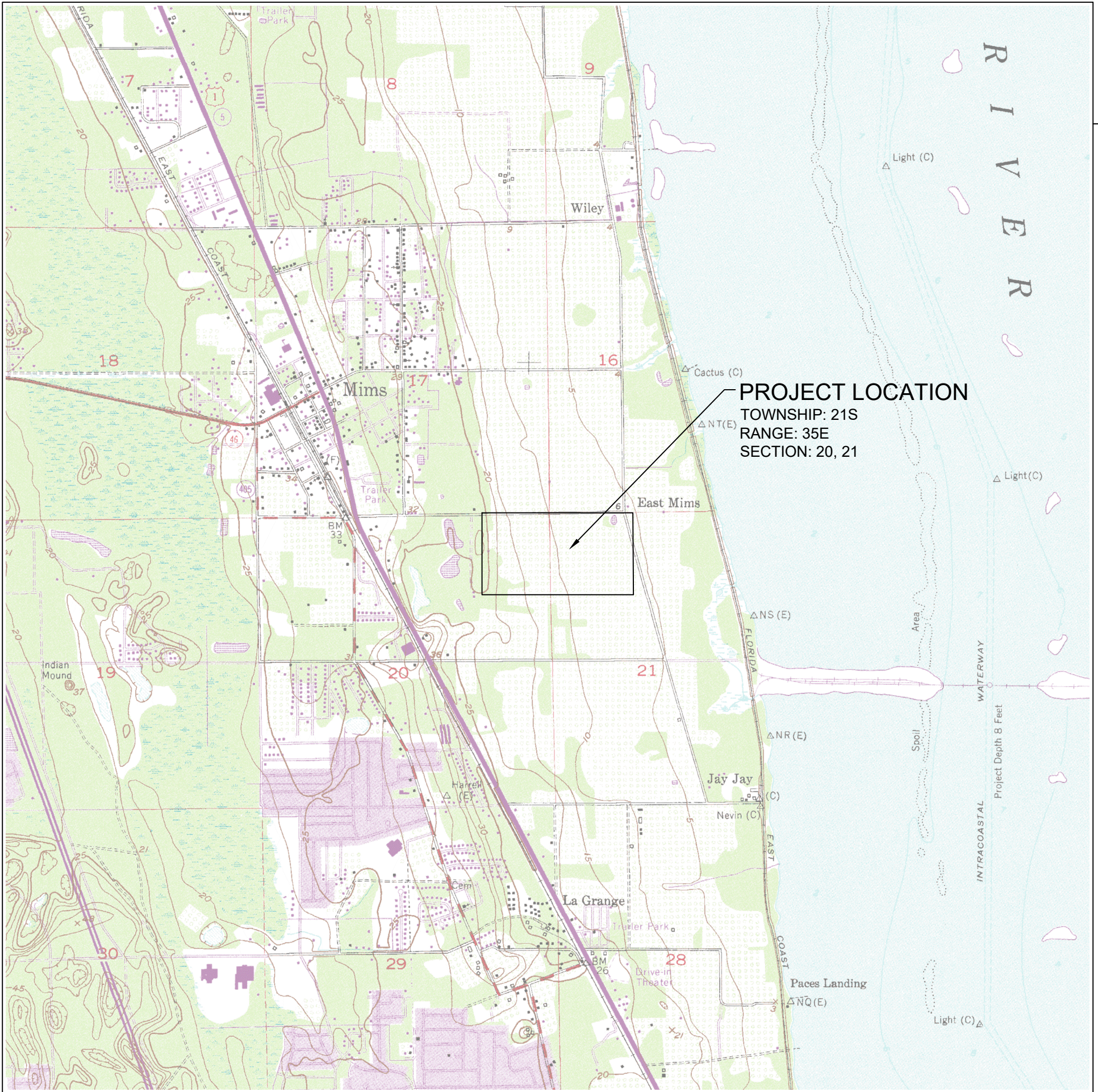
DREDGED MATERIAL MANAGEMENT AREA BV-4B

BREVARD COUNTY, FLORIDA



DRAWING INDEX

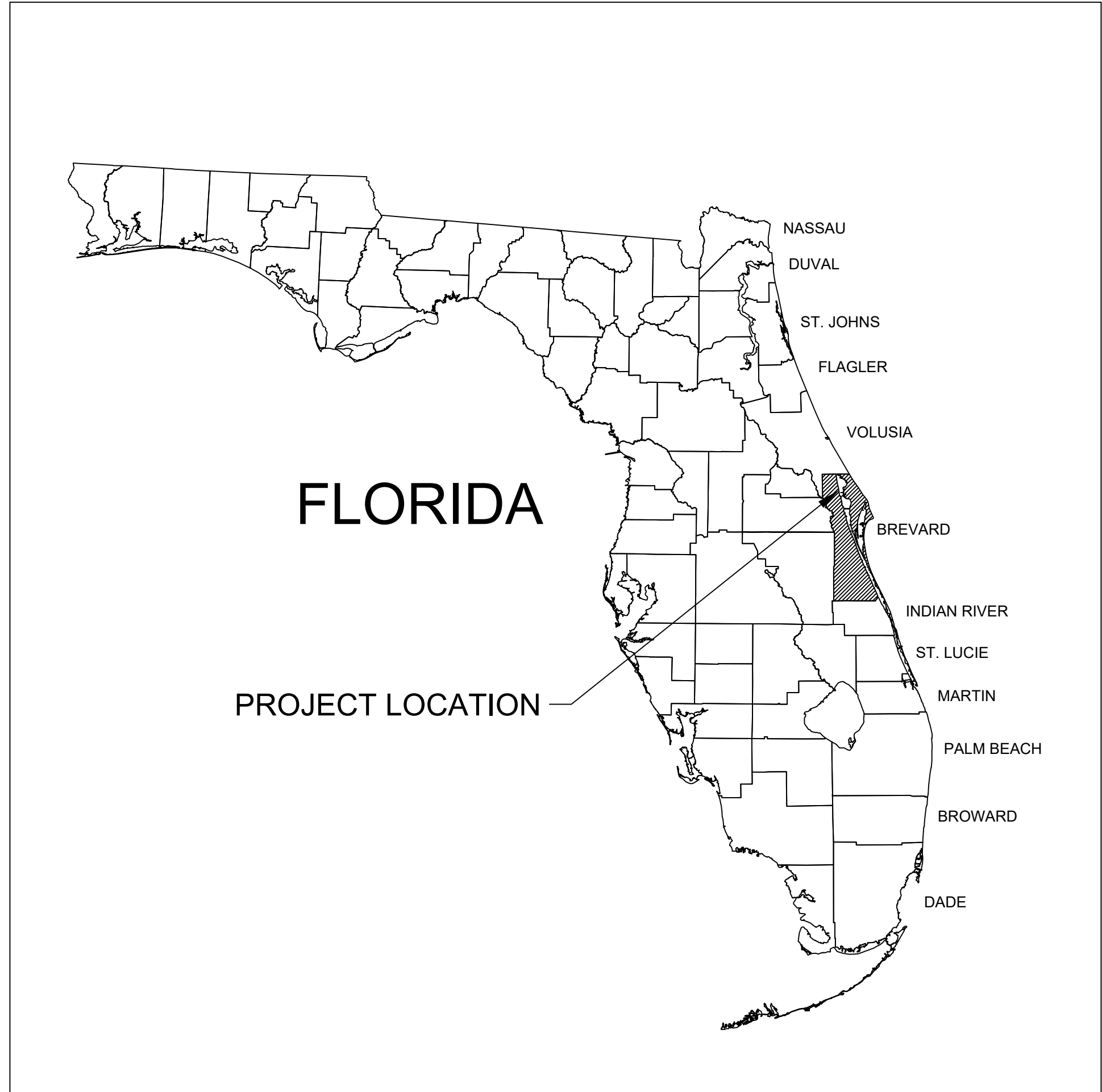
- C-1 TITLE SHEET
- C-2 GENERAL NOTES
- C-3 EXISTING CONDITIONS
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- C-5 SITE PLAN WITH AERIAL
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- C-13 CROSS-SECTIONS
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- C-17 INTERNAL COLLECTOR DRAIN PLAN
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- C-22 DRAINAGE DETAILS
- S-1 WEIR PLAN AND PROFILE
- S-2 ALUMINUM WALKWAY PLAN
- S-3 ALUMINUM WALKWAY FRAMING PLAN AND DETAILS
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- S-5 ALUMINUM WALKWAY AND FOUNDATION DETAILS
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- S-10 STEEL WEIR AND ALUMINUM FLAP GATE DETAILS
- S-11 STEEL WEIR LADDER DETAILS
- ER-1 TYPICAL EROSION CONTROL DETAILS



VICINITY MAP

1"= 2000' (22x34)
1"= 4000' (11x17)

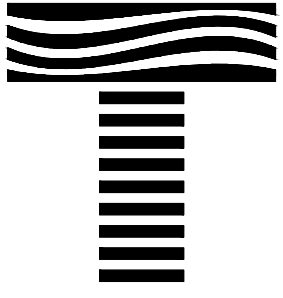
REFERENCE:
ESRI, USA TOPO MAPS



LOCATION MAP

N.T.S.

Call 811 before you dig.

 TAYLOR ENGINEERING INC. 10199 SOUTHSIDE BLVD BLDG 300 JACKSONVILLE, FLORIDA 32256 (904)-731-7040 REGISTRY # 4815	PROJECT TITLE		SEAL KEITH A. KNIGHT P.E.# 58084	
	DREDGED MATERIAL MANAGEMENT AREA BV-4B BREVARD COUNTY, FLORIDA			
	PROJECT NO	C2014-026-03	C-1	
	DATE	SEPT 2022		
		SHEET	1 OF 34	

H

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A

GENERAL NOTES

1.

THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER AND OWNER.

2.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.

3.

THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR THE ENGINEER TO OBSERVE AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMEN, LABORERS, LADDERS, HARD HATS, BOATS, LIFE JACKETS, LIFTS, SCAFFOLDING, MEASURING DEVICES, SURVEY EQUIPMENT, ETC.

4.

ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS. ALL SUBMITTALS USING METRIC UNITS WILL BE REJECTED AND RETURNED WITHOUT COMMENT.

5.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

6.

THE CONTRACTOR SHALL LOCATE ALL ABOVE-GROUND AND BELOW-GROUND UTILITIES BEFORE BEGINNING WORK.

7.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ENGINEER'S INTERPRETATION.

8.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO COSTS TO THE OWNER.

9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING AND DEWATERING OF ALL OPEN EXCAVATIONS. SHORING AND TRENCHING SHALL COMPLY WITH OSHA STANDARDS AND THE FLORIDA SAFE TRENCH ACT.

10.

DRAINAGE FROM STORMWATER, GROUND WATER, OR DE-WATERING SHALL BE CONTROLLED ONSITE. DRAINAGE NOT PREVIOUSLY DISCHARGED OFFSITE SHALL NOT BE DISCHARGED TO ADJACENT PROPERTIES DURING THE COURSE OF THE WORK.

11.

ONSITE SOILS SHALL NOT BE ALLOWED TO ERODE OR OTHERWISE MOVE TO ADJACENT PROPERTIES.

12.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS AND SIGNS ADEQUATE TO PREVENT NORMAL PUBLIC ACCESS.

13.

THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS AND SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. THE RECORD DRAWINGS SHALL BE KEPT ONSITE AND SHALL BE AVAILABLE FOR OBSERVATION BY THE ENGINEER.

14.

THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE THE STRUCTURE UNTIL COMPLETED WITH ALL COMPONENTS INSTALLED. UNLESS SPECIFICALLY STATED IN THE DRAWINGS, THE CONTRACTOR SHALL ASSUME THE EOR HAS ONLY DESIGNED THE STRUCTURE(S) FOR THE FINAL CONSTRUCTED AND ASSEMBLED STATE AS SHOWN ON THE DRAWINGS.

15.

ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER IN WRITING.

16.

ALL STORAGE OR STOCKPILING OF TOOLS AND MATERIAL, AND OPERATION OF HEAVY EQUIPMENT ASSOCIATED WITH CONSTRUCTION SHALL BE LIMITED TO AREAS AUTHORIZED BY THE ENGINEER.

17.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, COUNTY, AND MUNICIPAL RULES AND REGULATIONS.

PERMITS AND PERMIT CONDITIONS

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY OR COUNTY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC.

2.

THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. ALL WETLAND AREAS AND WATER BODIES OUTSIDE THE SPECIFIC LIMITS OF CONSTRUCTION AUTHORIZED BY THIS PERMIT SHALL BE PROTECTED FROM EROSION, SILTATION, SCOURING, AND/OR DEWATERING. WITHIN 7 DAYS OF ANY CONSTRUCTION ACTIVITY, EROSION BARRIERS SHALL BE INSTALLED PRIOR TO ANY EXCAVATION OR PLACEMENT OF FILL MATERIAL. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED AREAS ARE STABILIZED.

3.

EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.

4.

IF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS ARE DISCOVERED AT ANY TIME ON THE PROJECT SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD AND CEASE WORK IN THE AREA THE ARTIFACTS WERE IDENTIFIED.

AS-BUILT SURVEYS

1.

THE CONTRACTOR SHALL INCLUDE THE COST OF AN AS-BUILT SURVEY IN THE BID PRICE. THE AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEY LICENSED IN THE STATE THE PROJECT IS IN AND SHALL SHOW THE LOCATION AND ELEVATION OF ALL CONSTRUCTED FEATURES.

PROJECT DATUM

1.

ALL UNITS ARE IN FEET UNLESS NOTED OTHERWISE

2.

HORIZONTAL DATUM = STATE PLANE COORDINATES NAD83/FLORIDA EAST

3.

VERTICAL DATUM = NAVD 88

EARTHWORK WORK SEQUENCE

1.

CLEAR AND GRUB THE SITE

2.

STRIP TOPSOIL AND STOCKPILE IN AREA APPROVED BY THE ENGINEER

3.

THE ENTIRE DIKE FOUNDATION SHALL BE GRADED AND COMPACTED.

4.

THE DIKE SHALL BE CONSTRUCTED IN LIFTS.

5.

SPREAD TOPSOIL EVENLY ON SIDES AND TOP OF DIKE. IF TOPSOIL IS LEFT OVER, SPREAD OVER AREAS TO BE GRASSSED AS DIRECTED BY THE ENGINEER

ESTIMATED DMMA STORAGE CAPACITY

1.

THE ESTIMATED DMMA STORAGE CAPACITY, MEASURED FROM THE ESTIMATED BASIN BOTTOM ELEVATION OF +5.5' TO A MAXIMUM SEDIMENT ELEVATION OF +18.50, IS 728,870 CY.

ESTIMATED DMMA EARTHWORK VOLUMES

1.

PAYMENT SURVEYS AND AS-BUILT SURVEYS WILL BE THE BASIS OF PAYMENT FOR ALL DMMA EARTHWORK VOLUMES (UNIT COST ITEMS). THE CONTRACTOR SHALL REFER TO THE BID SCHEDULE AND THE SPECIFICATION. THE TERM DIKE CONSTRUCTION FILL VOLUME REFERS TO THE TOTAL EARTHWORK FILL VOLUME NECESSARY TO CONSTRUCT THE DIKE, RAMPS, WEIR SHELF, PERIMETER ROADS, PERIMETER DITCH BERMS, AND ANCILLARY EARTHWORK ITEMS.

ESTIMATED TOPSOIL VOLUME TO BE STOCKPILED = 26,000 CY (3" OVER CLEARED AREA)

ESTIMATED TOPSOIL VOLUME PLACED ON DIKE = 19,645 CY (3")

ESTIMATED TOPSOIL VOLUME PLACED ON REMAINING GRASSSED AREAS = 6,159 CY

2.

THE TOPSOIL VOLUME FOR BIDDING PURPOSED SHALL BE 30,000 CY. THE ACTUAL TOPSOIL VOLUME FOR PAYMENT SHALL BE DETERMINED BY TOPOGRAPHIC SURVEY OF THE TOPSOIL STOCKPILE. HOWEVER, THE CONTRACTOR SHALL CONTROL THE DEPTH OF THE TOPSOIL STRIPPING TO ENSURE THAT NO MORE THAN 30,000 CY OF TOPSOIL IS STOCKPILED. NO PAYMENT WILL BE MADE FOR STRIPPING, STOCKPILING, OR PLACEMENT OF TOPSOIL IN EXCESS OF 30,000 CY.

3.

PAYMENT FOR DIKE CONSTRUCTION FILL SHALL BE BASED ON THE AMOUNT OF MATERIAL PLACED AND COMPACTED AFTER FOUNDATION PREPARATION IS COMPLETE. THE ENGINEER HAS ASSUMED THAT THE IN-SITU MATERIAL VOLUME WILL SHRINK WHEN CUT, PLACED, AND COMPACTED AS REQUIRED BY THE SPECIFICATIONS. THE ESTIMATED AVERAGE SHRINKAGE AS DETERMINED BY THE ENGINEER IS APPROXIMATELY 12%, MEANING THE REQUIRED CUT VOLUME IS 112% OF THE PLACED AND COMPACTED VOLUME. FOR BID PURPOSES THE CONTRACTOR SHALL MAKE HIS/HER OWN ESTIMATE OF SHRINKAGE AND BID ACCORDINGLY. THE IN-PLACE VOLUME OF COMPACTED MATERIAL REQUIRED TO CONSTRUCT THE SITE TO THE LINES AND GRADES SHOWN IN THE DRAWINGS IS:

ESTIMATED COMPACTED CONSTRUCTION FILL = 165,000 CY

Taylor Engineering logo

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Jacksonville, Florida 32256
(904)-731-7040
Registry # 4815

Seal area

Keith A. Knight P.E.# 58084

Project Title Area

REVISIONS / SUBMISSIONS TABLE

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Metadata Table

SHEET TITLE

GENERAL NOTES

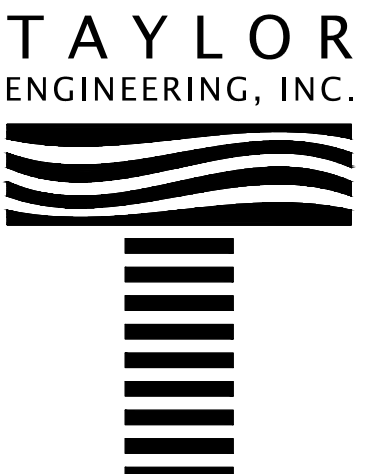
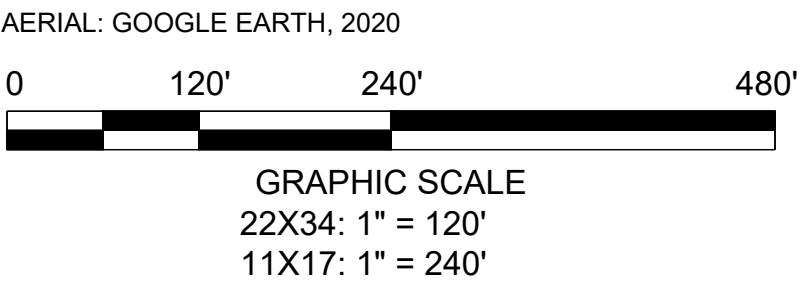
C-2

SHEET 2 OF 34

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- LEGEND:
- (W) EXISTING WELL (SURVEYED)
 - (GW) EXISTING WELL (IDENTIFIED ON THE GEOTECHNICAL REPORT ONLY)
 - (●) PROPOSED NEW NESTED MONITORING WELL



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REGISTRY # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
2	2		
2	2		
2	2		
1	1		
NO	NO		

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PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

SHEET TITLE

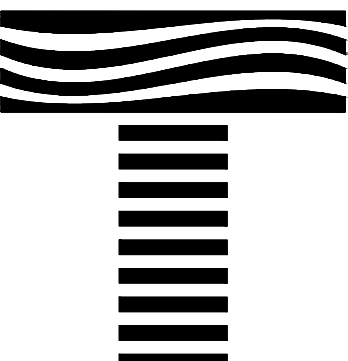
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CONDITIONS

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4	709789.47	1572419.92
5	709789.47	1572169.96
6	711075.84	1572182.53
7	711277.91	1572137.80
8	711342.96	1572225.23
9	711429.14	1572424.73
10	711451.29	1572346.61
11	711293.52	1572028.11
12	711503.15	1571247.27
13	711790.91	1571148.86
14	711800.86	1571113.75
15	711513.10	1571212.16
16	711466.58	1571212.16
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18	709408.80	1571080.80
19	709180.13	1571102.49
20	709018.47	1571102.49
21	708952.62	1571160.19
22	708938.64	1572068.74

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SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	REVISIONS / SUBMISSIONS	DATE
2		
2		
2		
1		
NO	ZONE	

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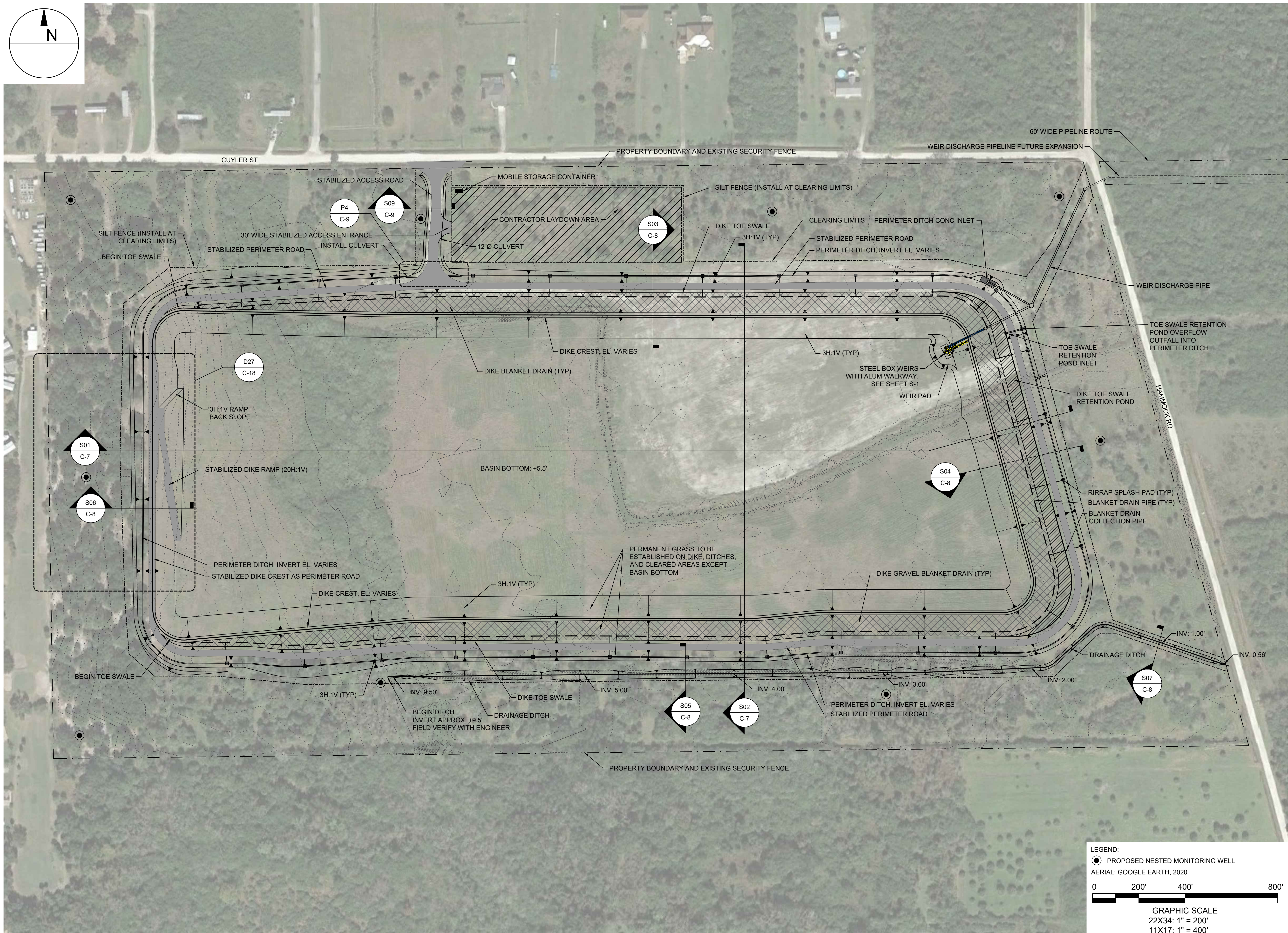
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DESIGNED	KAK
DRAWN	AF
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REVIEWED	JTA

SHEET TITLE

CLEARING AND GRUBBING

C-4

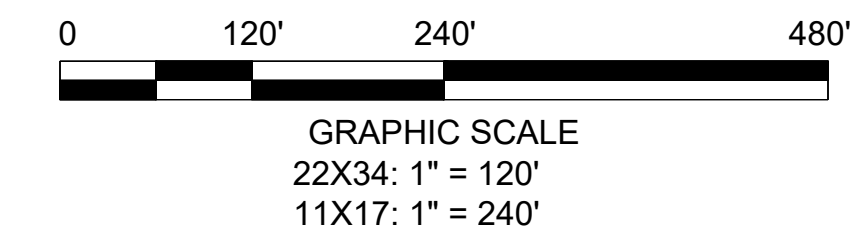
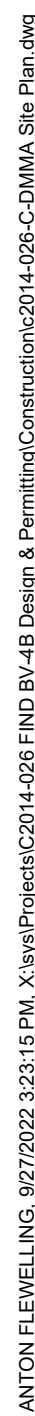
SHEET 4 OF 34



SHEET TITLE SITE PLAN WITH AERIAL	C-5 SHEET 5 OF 34
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C-5

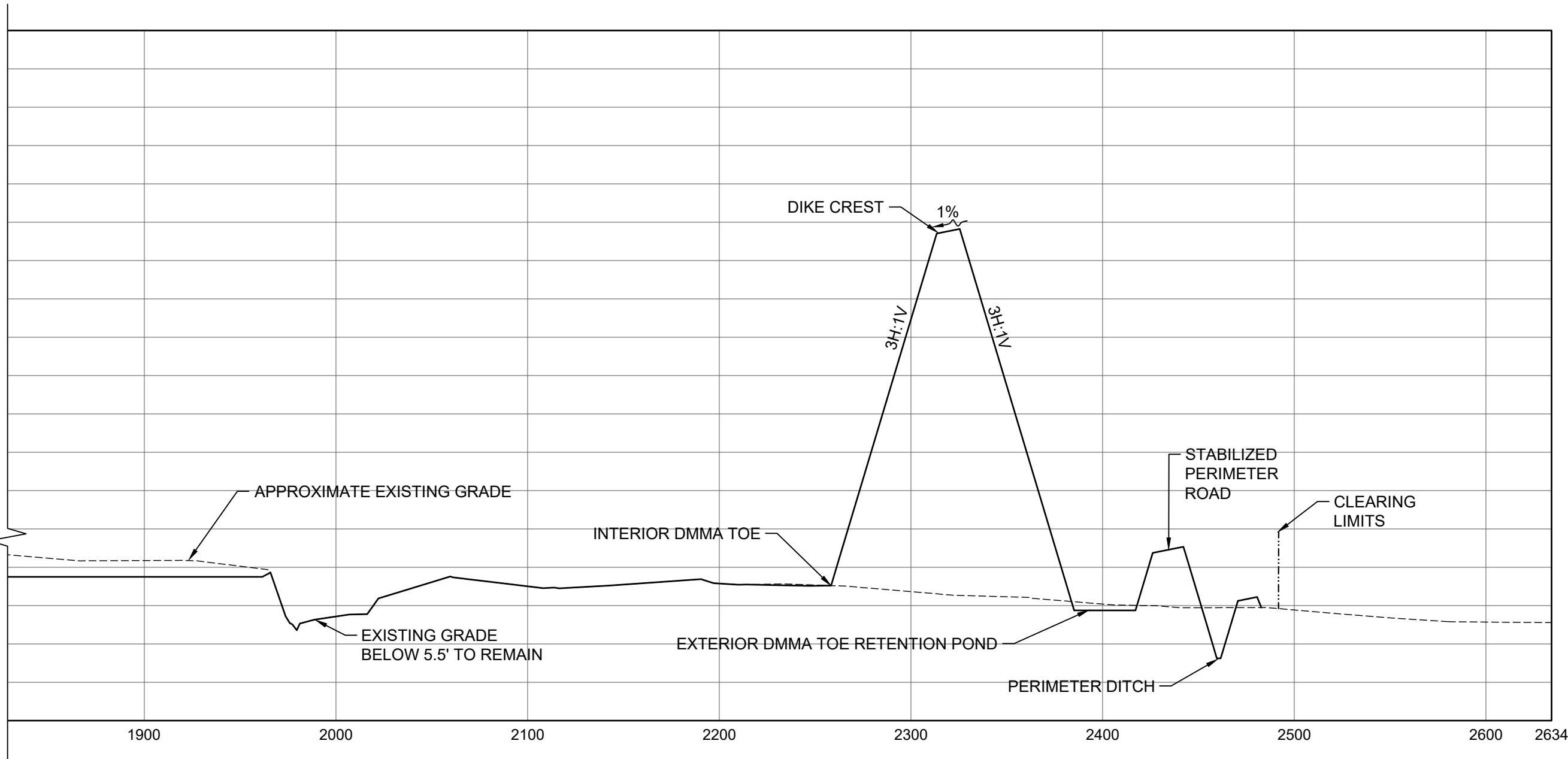
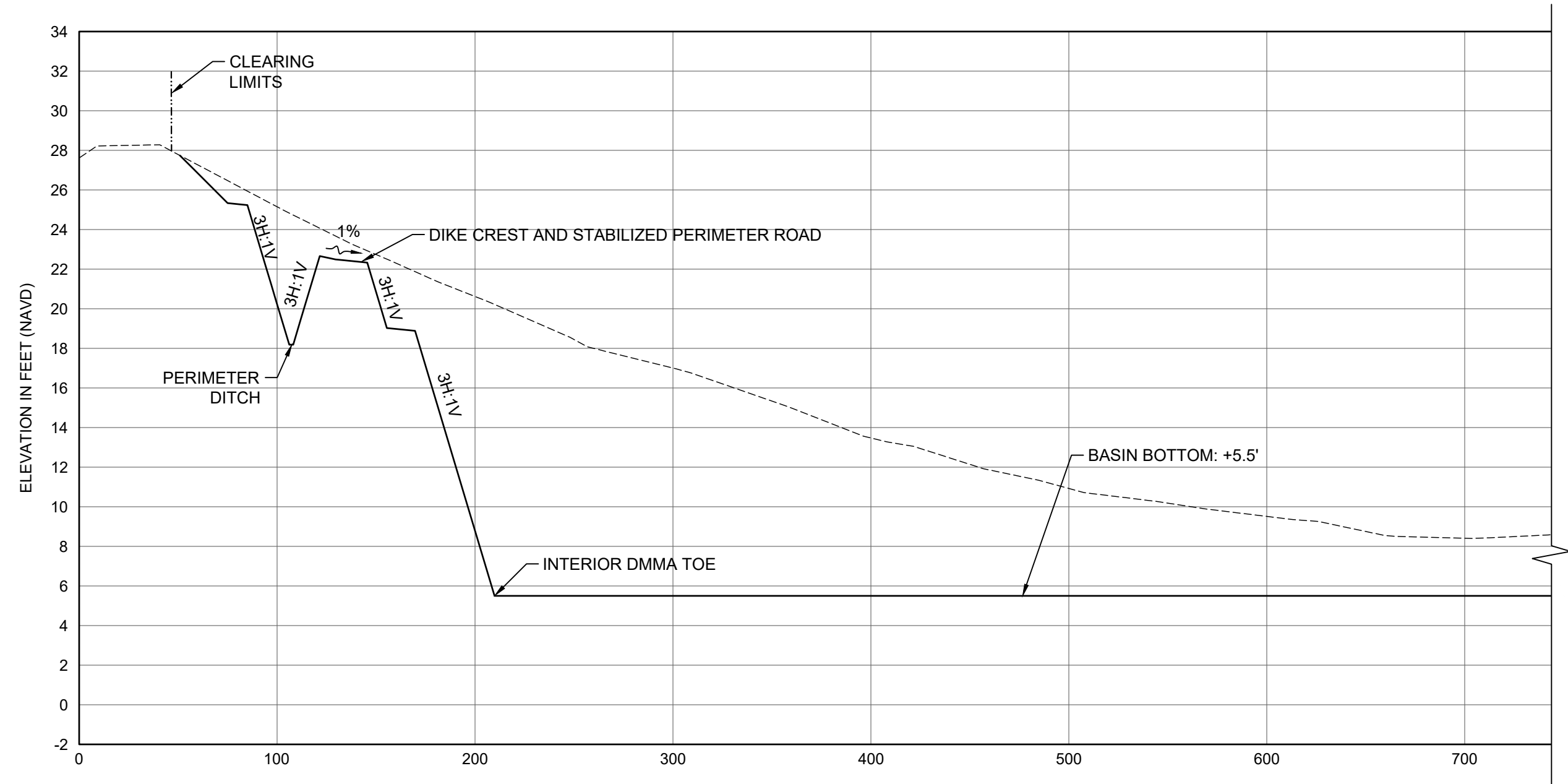
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SHEET 6 OF 34

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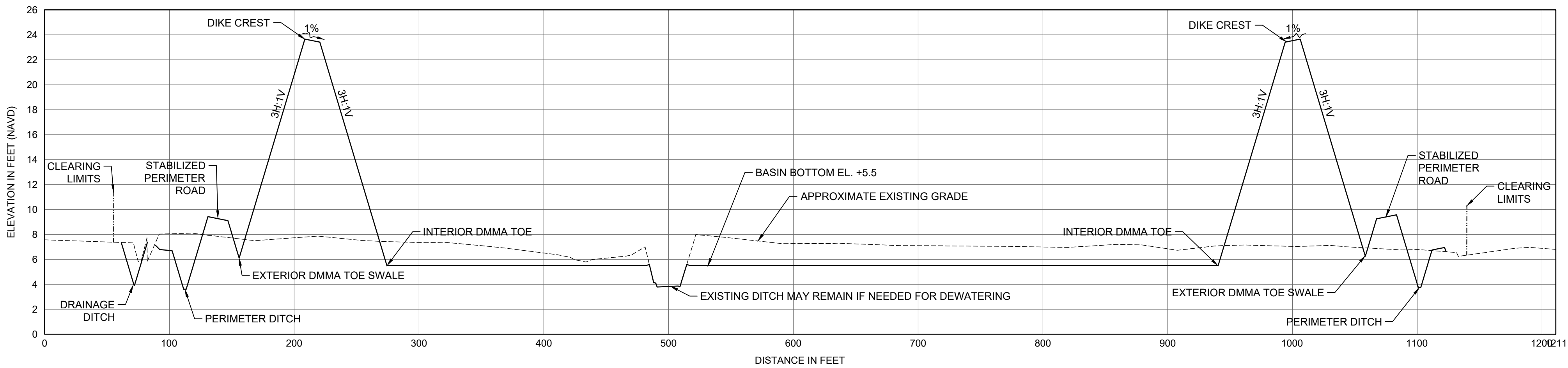
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G
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S01
C-5 C-6
22x34: 1" = 60'
11x17: 1" = 120'

EAST-WEST SECTION

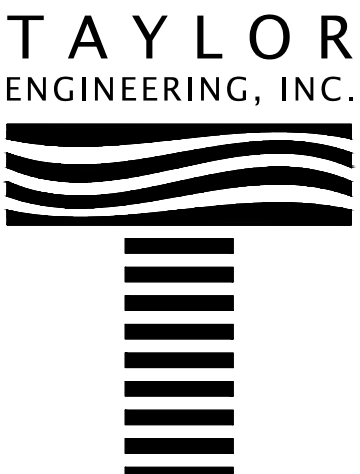
0 60' 120'



S02
C-5 C-6
22x34: 1" = 60'
11x17: 1" = 120'

NORTH-SOUTH SECTION

0 60' 120'



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PROJECT TITLE
**DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA**

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
2			
2			
2			
1			
NO			

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PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
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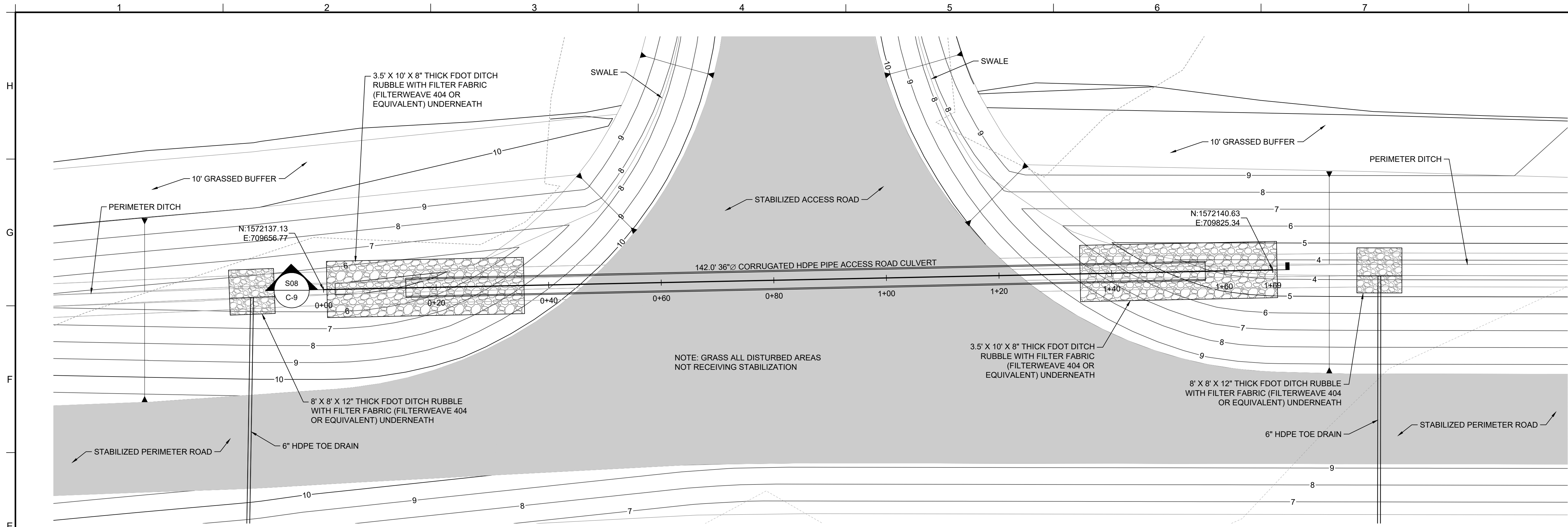
TYPICAL SECTIONS

C-7

SHEET 7 OF 34



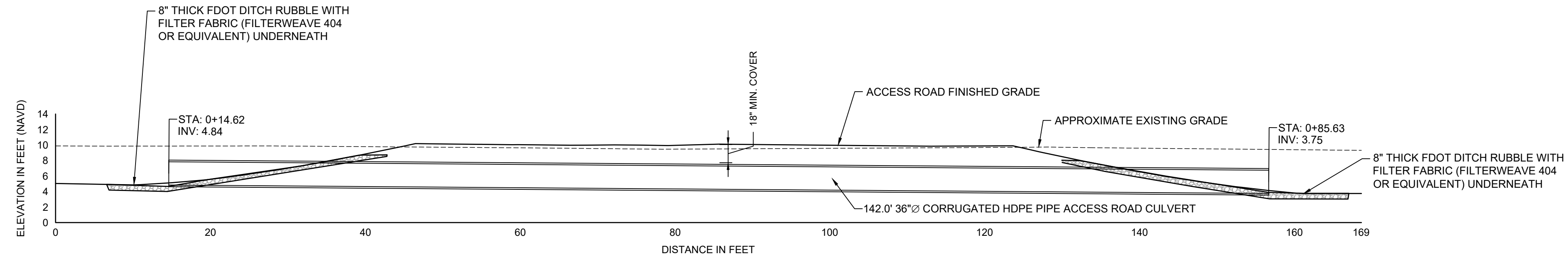
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P4
C-5 C-6
22x34: 1" = 10'
11x17: 1" = 20'

ACCESS ROAD CULVERT PLAN

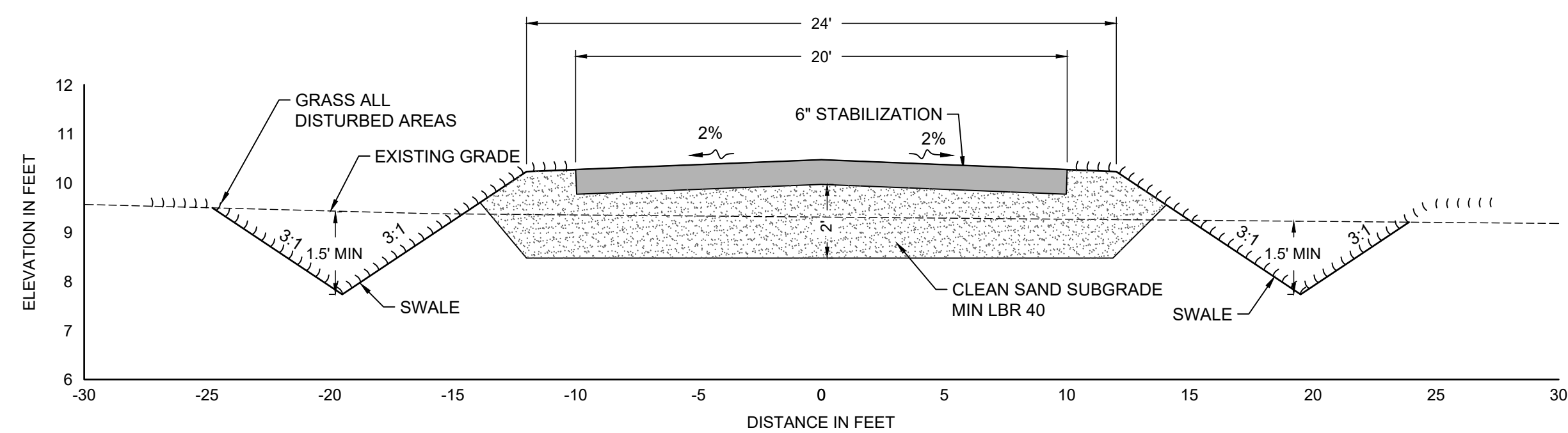
0 10' 20'



S08
C-9
22x34: 1" = 10'
11x17: 1" = 20'

ACCESS ROAD CULVERT SECTION

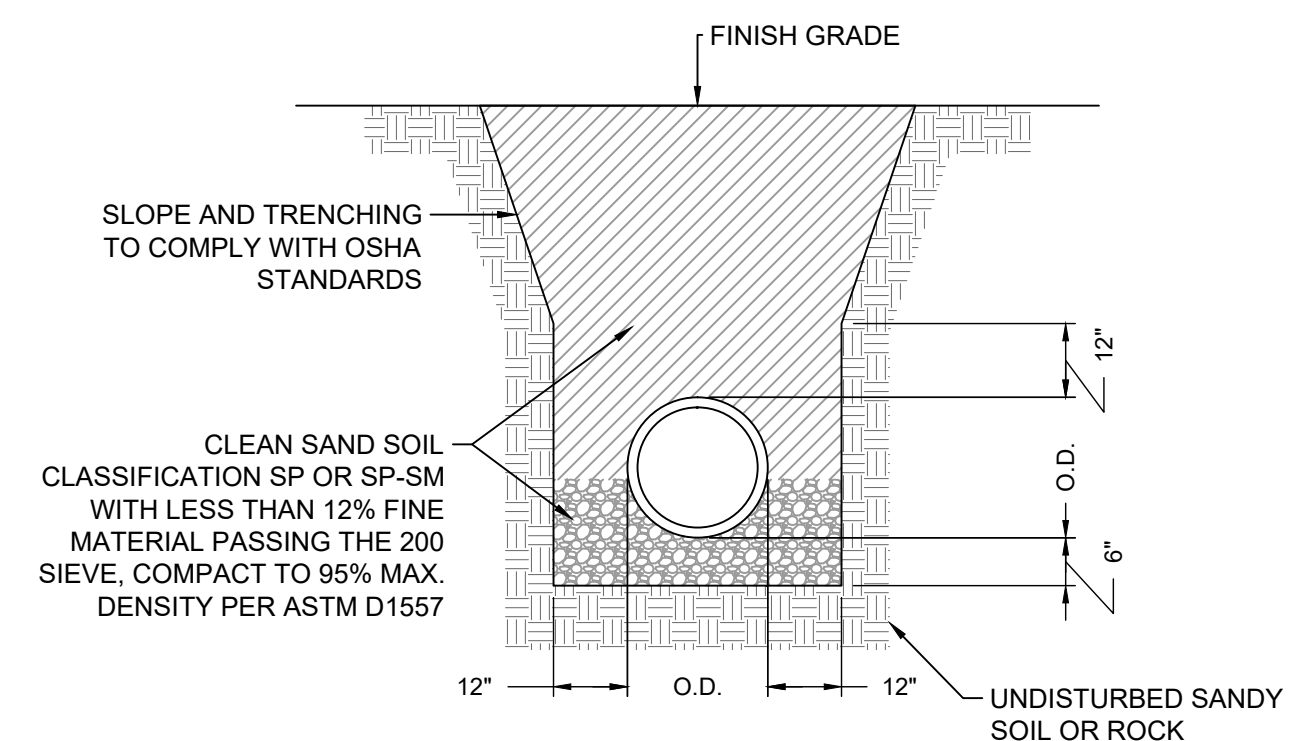
0 10' 20'



S09
C-5
22x34: 1" = 5'
11x17: 1" = 10'
V-SCALE: 1" = 3' (22X34)
V-SCALE: 1" = 5' (11X17)

ACCESS ROAD SECTION

0 5' 10'



TYPICAL TRENCH DETAIL FOR CULVERT INSTALLATION

NOT TO SCALE

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PROJECT TITLE
DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
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NO	NO	NO	NO

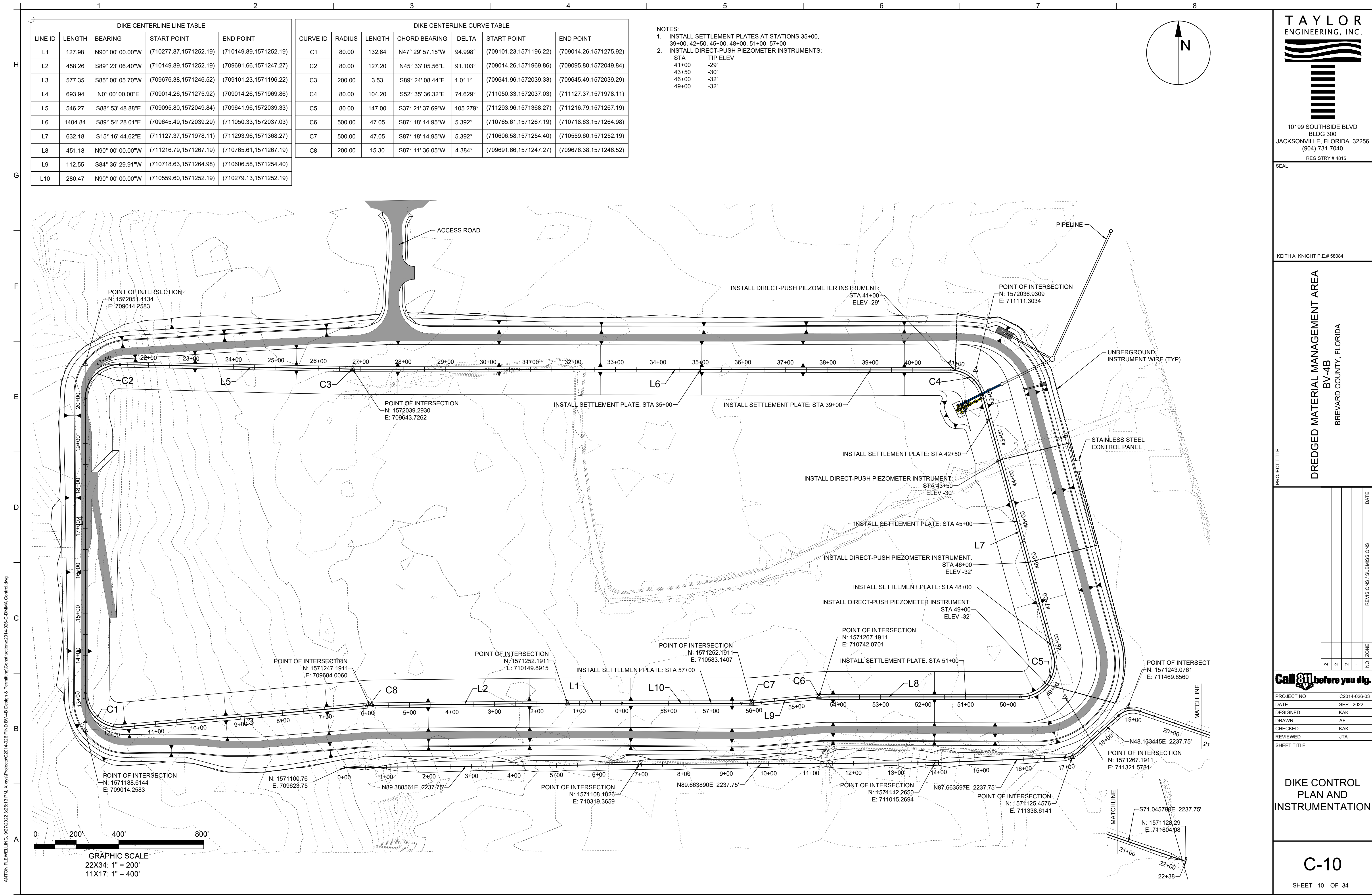
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REVIEWED	JTA

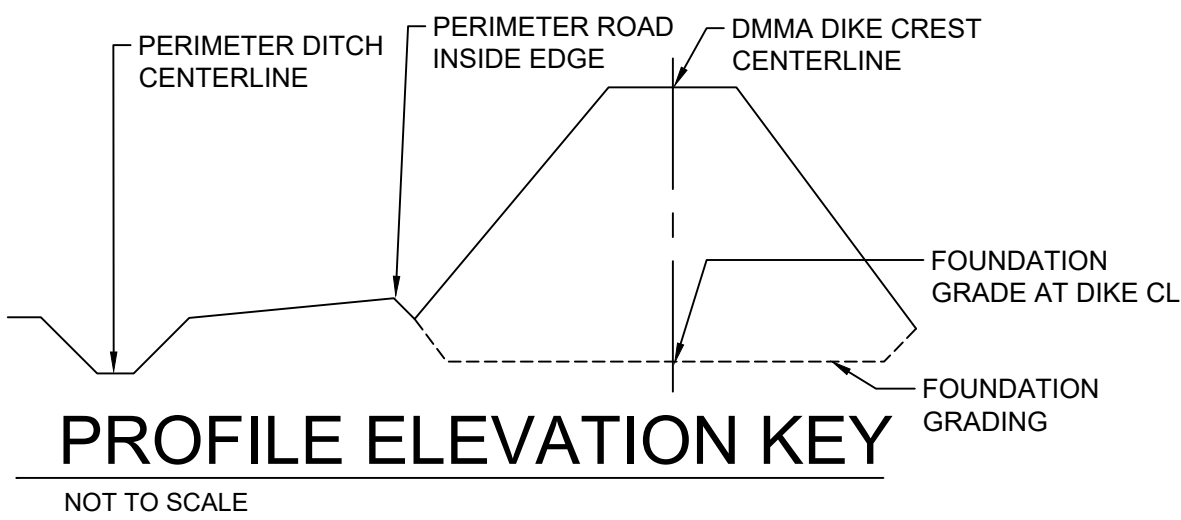
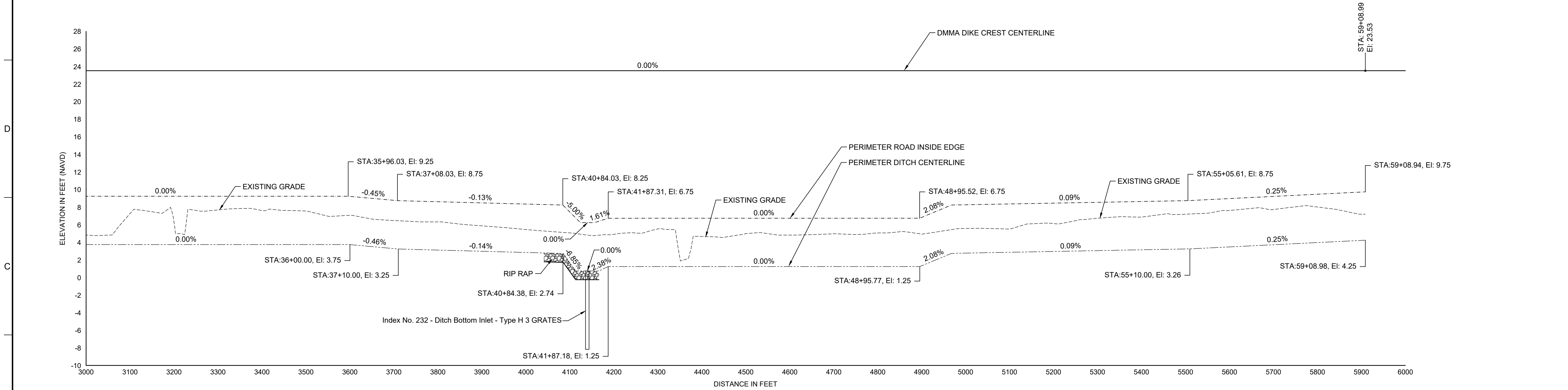
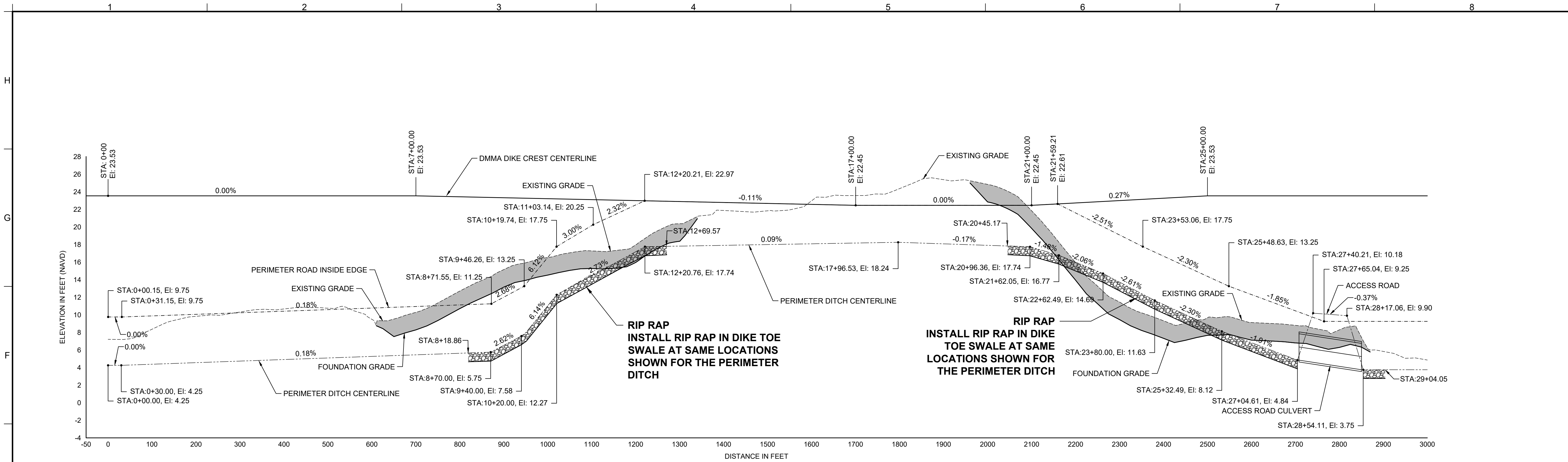
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ACCESS ROAD CULVERT

C-9

SHEET 9 OF 34



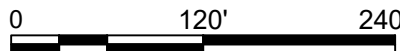
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DMMA ELEVATION PROFILES OF DIKE CREST, PERIMETER ROAD, AND PERIMETER DITCH

22x34: 1" = 120'
11x17: 1" = 240'

PROFILES BASED ON DIKE CENTERLINE ALIGNMENT STATIONS



LEGEND:	
---	EXISTING GRADE AT DIKE CENTERLINE
---	DMMA CREST CENTERLINE
---	PERIMETER ROAD INSIDE EDGE
---	PERIMETER DITCH CENTERLINE

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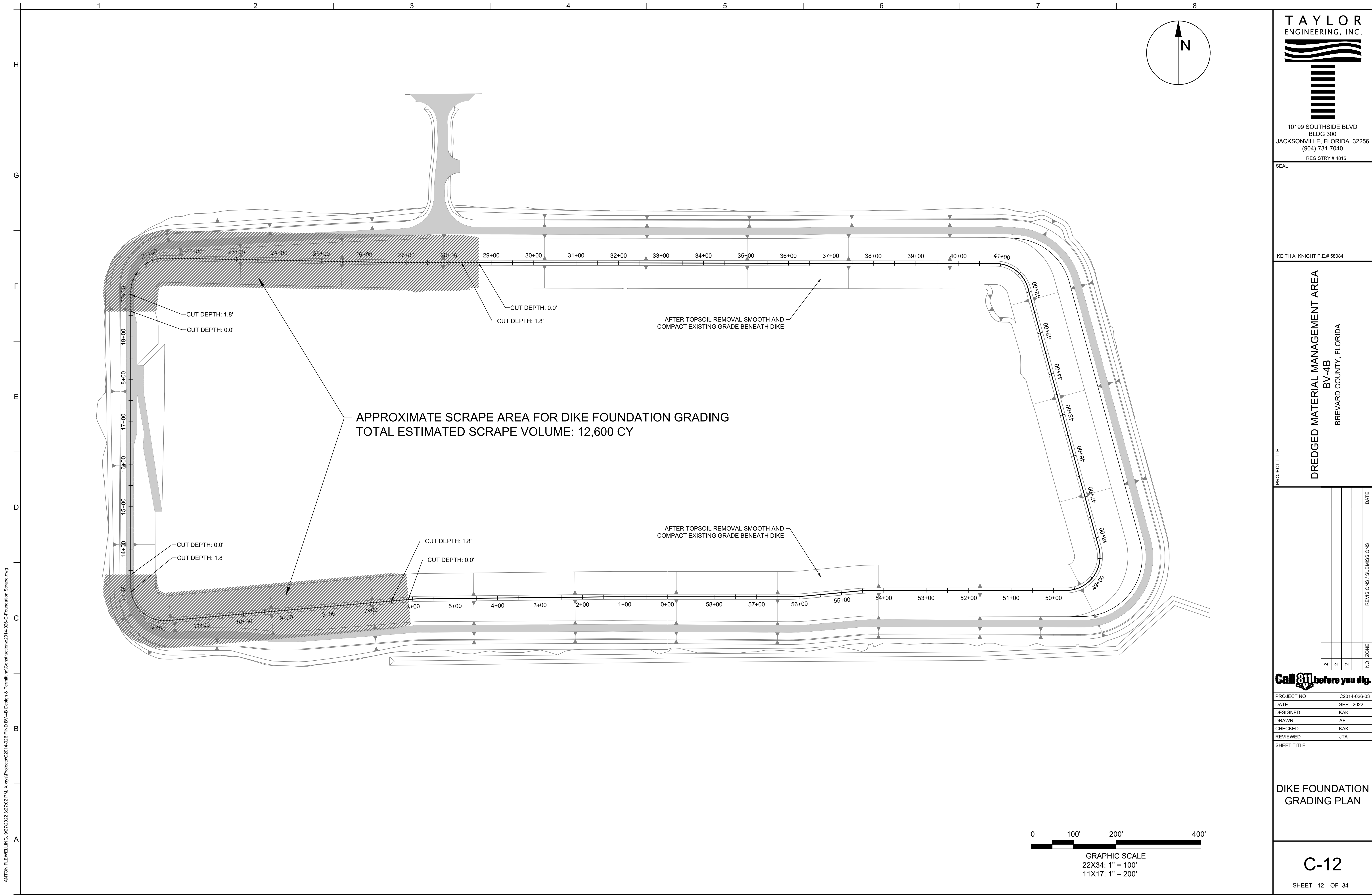
DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS		DATE
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2				
1				

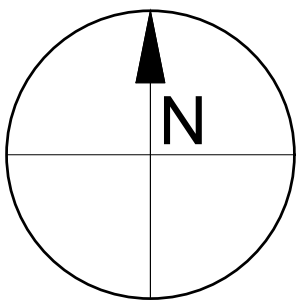
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SHEET TITLE

DIKE PROFILES



ANTON FLEWELLING, 9/27/2022 3:27:02 PM, X:\lays\Projects\2014-026 FND BV-4B Design & Permitting\Construction\2014-026-C-12 Foundation Grading.dwg



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DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

REVISIONS / SUBMISSIONS		DATE
NO	ZONE	
2		
2		
2		
1		

Call 811 before you dig.

PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

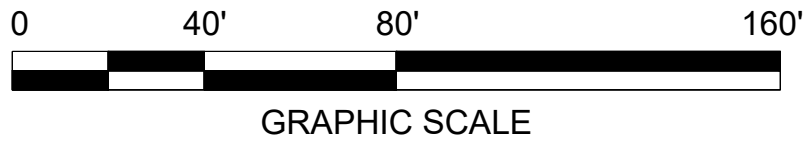
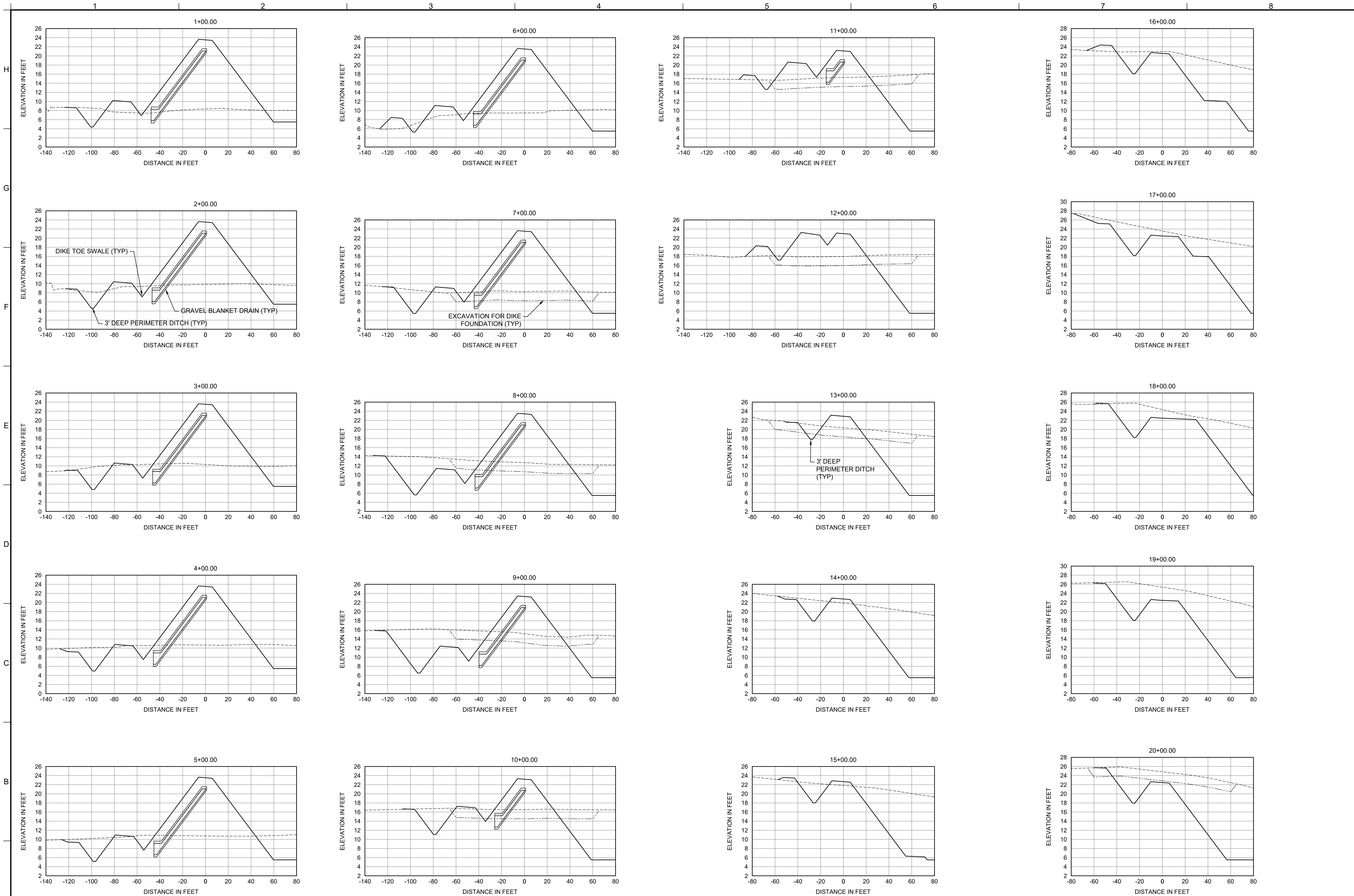
SHEET TITLE

DIKE FOUNDATION
GRADING PLAN

C-12

SHEET 12 OF 34

ANTON FLEVELLING, 9/27/2022 3:27:24 PM, X:\a\Projects\C2014-026 FND BV-4B Design & Permitting\Construction\C2014-026-C-DMAA Sections.dwg



22X34: 1" = 40'
11X17: 1" = 80'

VERT. SCALE: 1" = 10' (22x34)
VERT. SCALE: 1" = 20' (11x17)

LEGEND:
--- EXISTING GRADE
— PROPOSED GRADE

TAYLOR
ENGINEERING, INC.

10199 SOUTHSIDE BLVD
BLDG 300
JACKSONVILLE, FLORIDA 32256
(904)-731-7040
REGISTRY # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

REVISIONS / SUBMISSIONS				DATE
NO	DATE	BY	CHKD	ZONE
2				
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1				
NO				

PROJECT NO		C2014-026-03
DATE		SEPT 2022
DESIGNED	KAK	
DRAWN	AF	
CHECKED	KAK	
REVIEWED	JTA	

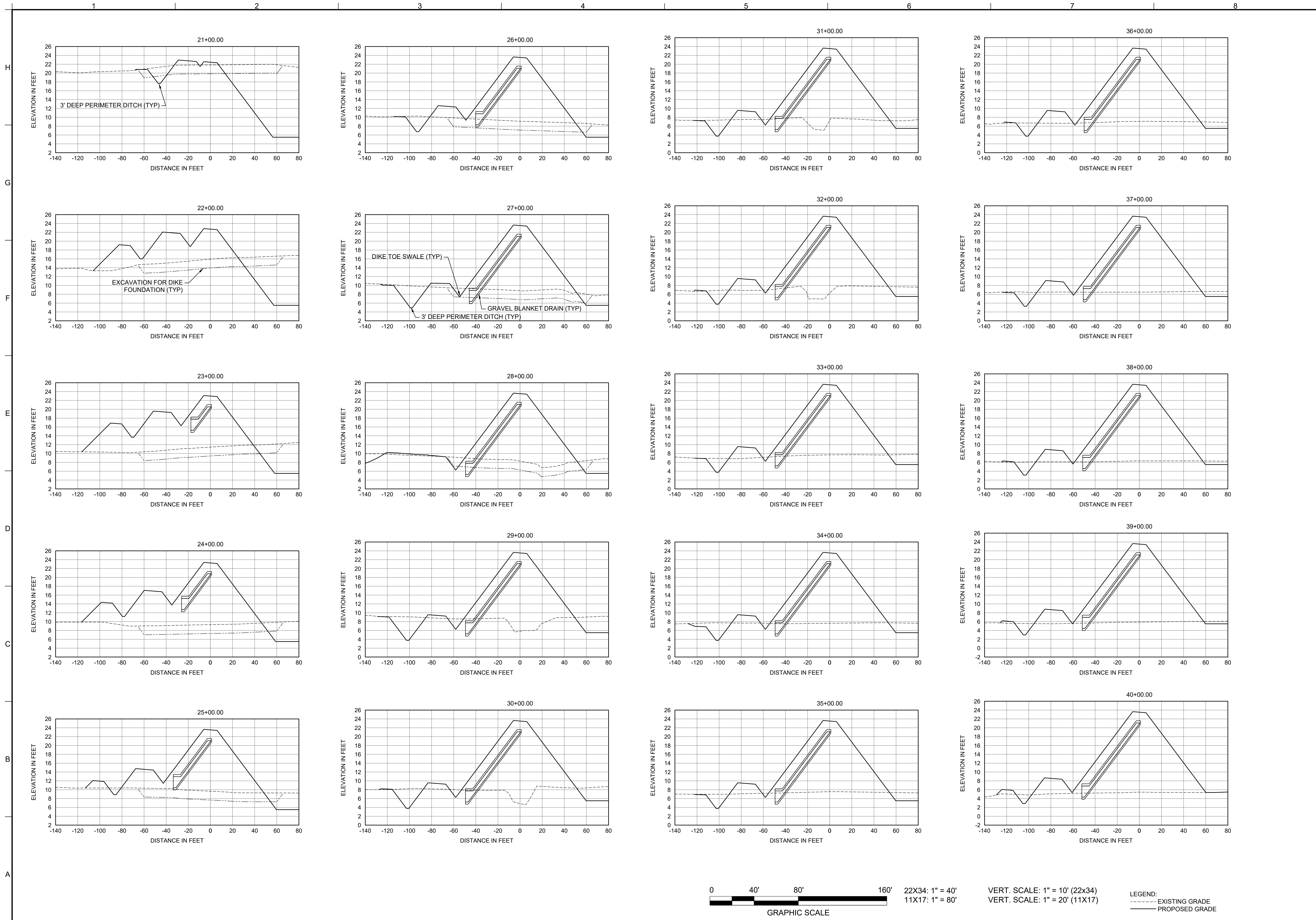
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CROSS-SECTIONS

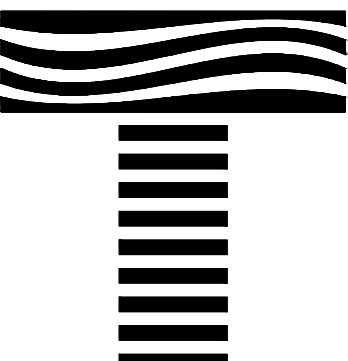
C-13

SHEET 13 OF 34

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KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

	NO	DATE
2	2	2
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NO	NO	NO

Call  before you dig.

PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

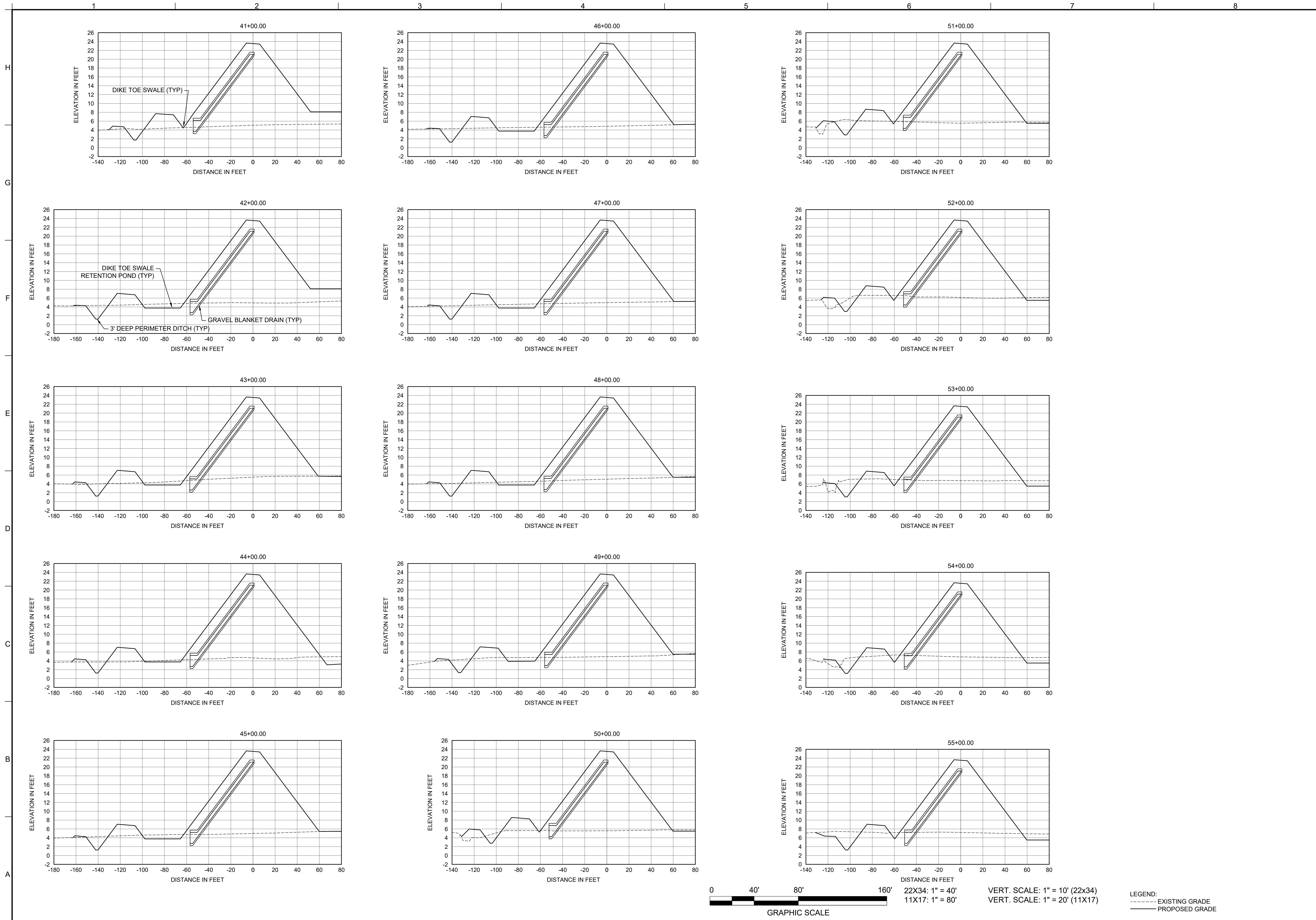
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CROSS-SECTIONS

C-14

SHEET 14 OF 34

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KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

	NO	ZONE	REVISIONS / SUBMISSIONS	DATE
	2	2	2	1

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PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

SHEET TITLE

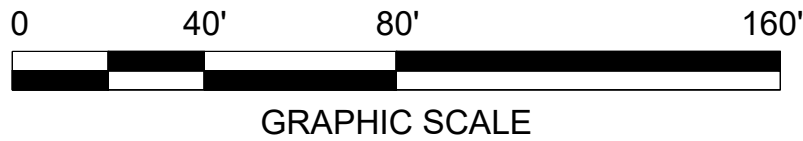
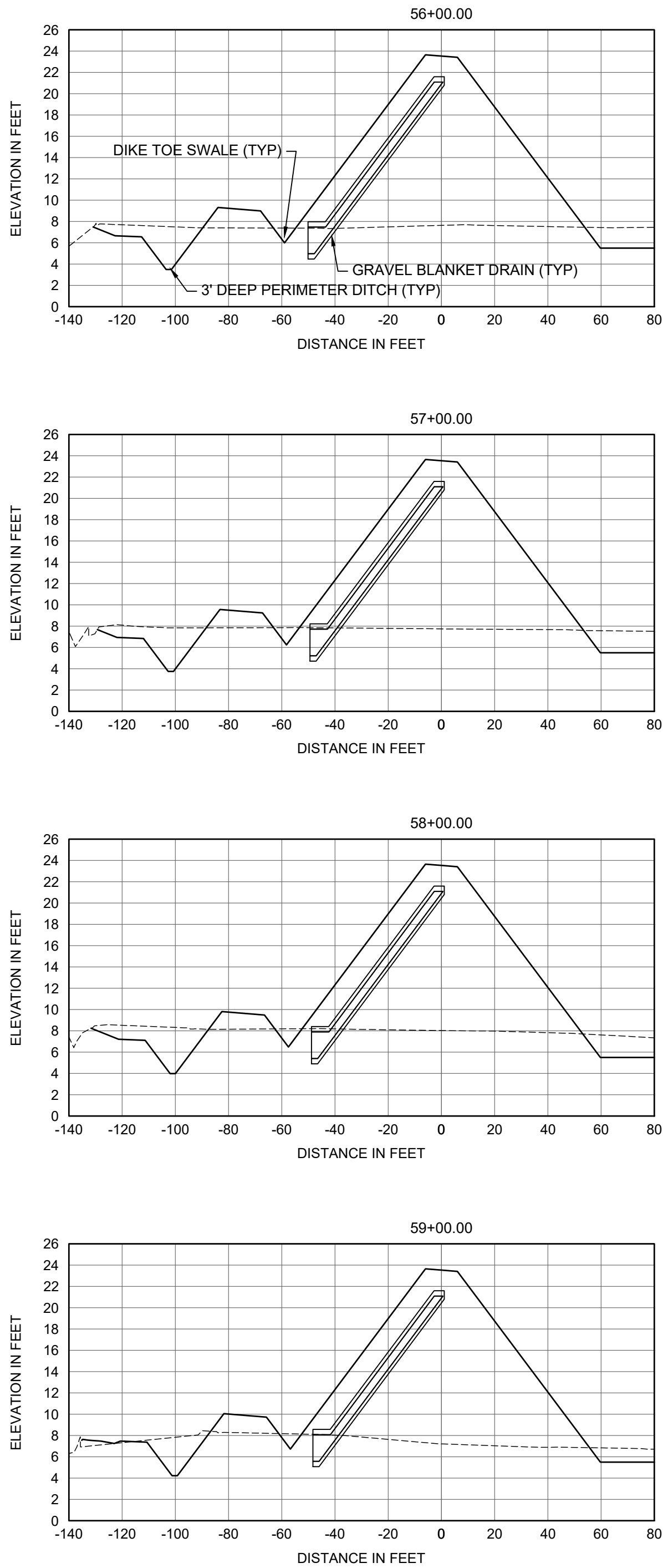
CROSS-SECTIONS

C-15

SHEET 15 OF 34

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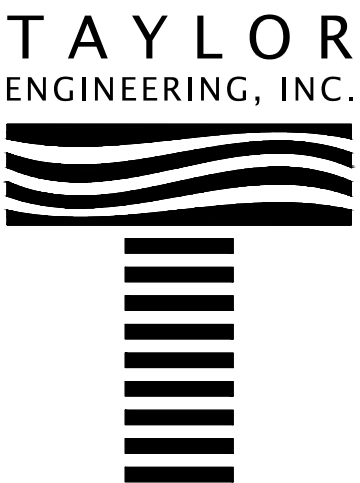
H
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E
D
C
B
A



22X34: 1" = 40'
11X17: 1" = 80'

VERT. SCALE: 1" = 10' (22x34)
VERT. SCALE: 1" = 20' (11X17)

LEGEND:
----- EXISTING GRADE
----- PROPOSED GRADE



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KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

REVISIONS / SUBMISSIONS				DATE
NO	ZONE			
2				
2				
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1				
NO				

Call 811 before you dig.

PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

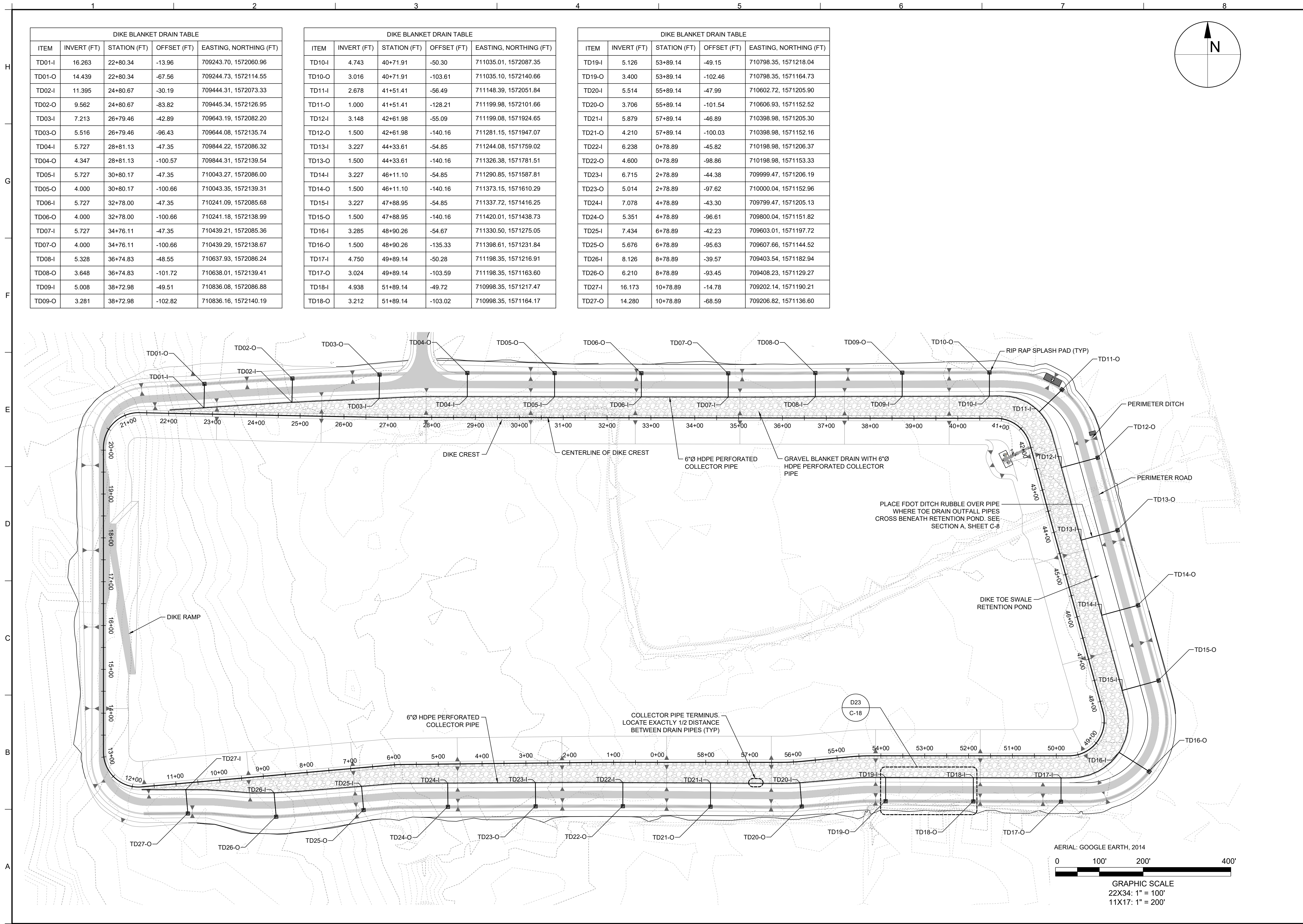
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CROSS-SECTIONS

C-16

SHEET 16 OF 34

ANTON FLEVELLING, 9/27/2022 2:28:20 PM, X:\taylor\Projects\2014-026 FND BV-4B Design & Permitting\Construction\2014-026-C-DMAA Drains.dwg



DIKE BLANKET DRAIN TABLE				
ITEM	INVERT (FT)	STATION (FT)	OFFSET (FT)	EASTING, NORTHING (FT)
TD01-I	16.263	22+80.34	-13.96	709243.70, 1572060.96
TD01-O	14.439	22+80.34	-67.56	709244.73, 1572114.55
TD02-I	11.395	24+80.67	-30.19	709444.31, 1572073.33
TD02-O	9.562	24+80.67	-83.82	709445.34, 1572126.95
TD03-I	7.213	26+79.46	-42.89	709643.19, 1572082.20
TD03-O	5.516	26+79.46	-96.43	709644.08, 1572135.74
TD04-I	5.727	28+81.13	-47.35	709844.22, 1572086.32
TD04-O	4.347	28+81.13	-100.57	709844.31, 1572139.54
TD05-I	5.727	30+80.17	-47.35	710043.27, 1572086.00
TD05-O	4.000	30+80.17	-100.66	710043.35, 1572139.31
TD06-I	5.727	32+78.00	-47.35	710241.09, 1572085.68
TD06-O	4.000	32+78.00	-100.66	710241.18, 1572138.99
TD07-I	5.727	34+76.11	-47.35	710439.21, 1572085.36
TD07-O	4.000	34+76.11	-100.66	710439.29, 1572138.67
TD08-I	5.328	36+74.83	-48.55	710637.93, 1572086.24
TD08-O	3.648	36+74.83	-101.72	710638.01, 1572139.41
TD09-I	5.008	38+72.98	-49.51	710836.08, 1572086.88
TD09-O	3.281	38+72.98	-102.82	710836.16, 1572140.19

DIKE BLANKET DRAIN TABLE				
ITEM	INVERT (FT)	STATION (FT)	OFFSET (FT)	EASTING, NORTHING (FT)
TD10-I	4.743	40+71.91	-50.30	711035.01, 1572087.35
TD10-O	3.016	40+71.91	-103.61	711035.10, 1572140.66
TD11-I	2.678	41+51.41	-56.49	711148.39, 1572051.84
TD11-O	1.000	41+51.41	-128.21	711199.98, 1572101.66
TD12-I	3.148	42+61.98	-55.09	711199.08, 1571924.65
TD12-O	1.500	42+61.98	-140.16	711281.15, 1571947.07
TD13-I	3.227	44+33.61	-54.85	711244.08, 1571759.02
TD13-O	1.500	44+33.61	-140.16	711326.38, 1571781.51
TD14-I	3.227	46+11.10	-54.85	711290.85, 1571587.81
TD14-O	1.500	46+11.10	-140.16	711373.15, 1571610.29
TD15-I	3.227	47+88.95	-54.85	711337.72, 1571416.25
TD15-O	1.500	47+88.95	-140.16	711420.01, 1571438.73
TD16-I	3.285	48+90.26	-54.67	711330.50, 1571275.05
TD16-O	1.500	48+90.26	-135.33	711398.61, 1571231.84
TD17-I	4.750	49+89.14	-50.28	711198.35, 1571216.91
TD17-O	3.024	49+89.14	-103.59	711198.35, 1571163.60
TD18-I	4.938	51+89.14	-49.72	710998.35, 1571217.47
TD18-O	3.212	51+89.14	-103.02	710998.35, 1571164.17

DIKE BLANKET DRAIN TABLE				
ITEM	INVERT (FT)	STATION (FT)	OFFSET (FT)	EASTING, NORTHING (FT)
TD19-I	5.126	53+89.14	-49.15	710798.35, 1571218.04
TD19-O	3.400	53+89.14	-102.46	710798.35, 1571164.73
TD20-I	5.514	55+89.14	-47.99	710602.72, 1571205.90
TD20-O	3.706	55+89.14	-101.54	710606.93, 1571152.52
TD21-I	5.879	57+89.14	-46.89	710398.98, 1571205.30
TD21-O	4.210	57+89.14	-100.03	710398.98, 1571152.16
TD22-I	6.238	0+78.89	-45.82	710198.98, 1571206.37
TD22-O	4.600	0+78.89	-98.86	710198.98, 1571153.33
TD23-I	6.715	2+78.89	-44.38	709999.47, 1571206.19
TD23-O	5.014	2+78.89	-97.62	710000.04, 1571152.96
TD24-I	7.078	4+78.89	-43.30	709799.47, 1571205.13
TD24-O	5.351	4+78.89	-96.61	709800.04, 1571151.82
TD25-I	7.434	6+78.89	-42.23	709603.01, 1571197.72
TD25-O	5.676	6+78.89	-95.63	709607.66, 1571144.52
TD26-I	8.126	8+78.89	-39.57	709403.54, 1571182.94
TD26-O	6.210	8+78.89	-93.45	709408.23, 1571129.27
TD27-I	16.173	10+78.89	-14.78	709202.14, 1571190.21
TD27-O	14.280	10+78.89	-68.59	709206.82, 1571136.60

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SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE
DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	REVISIONS / SUBMISSIONS	DATE
2		
2		
1		
NO	ZONE	

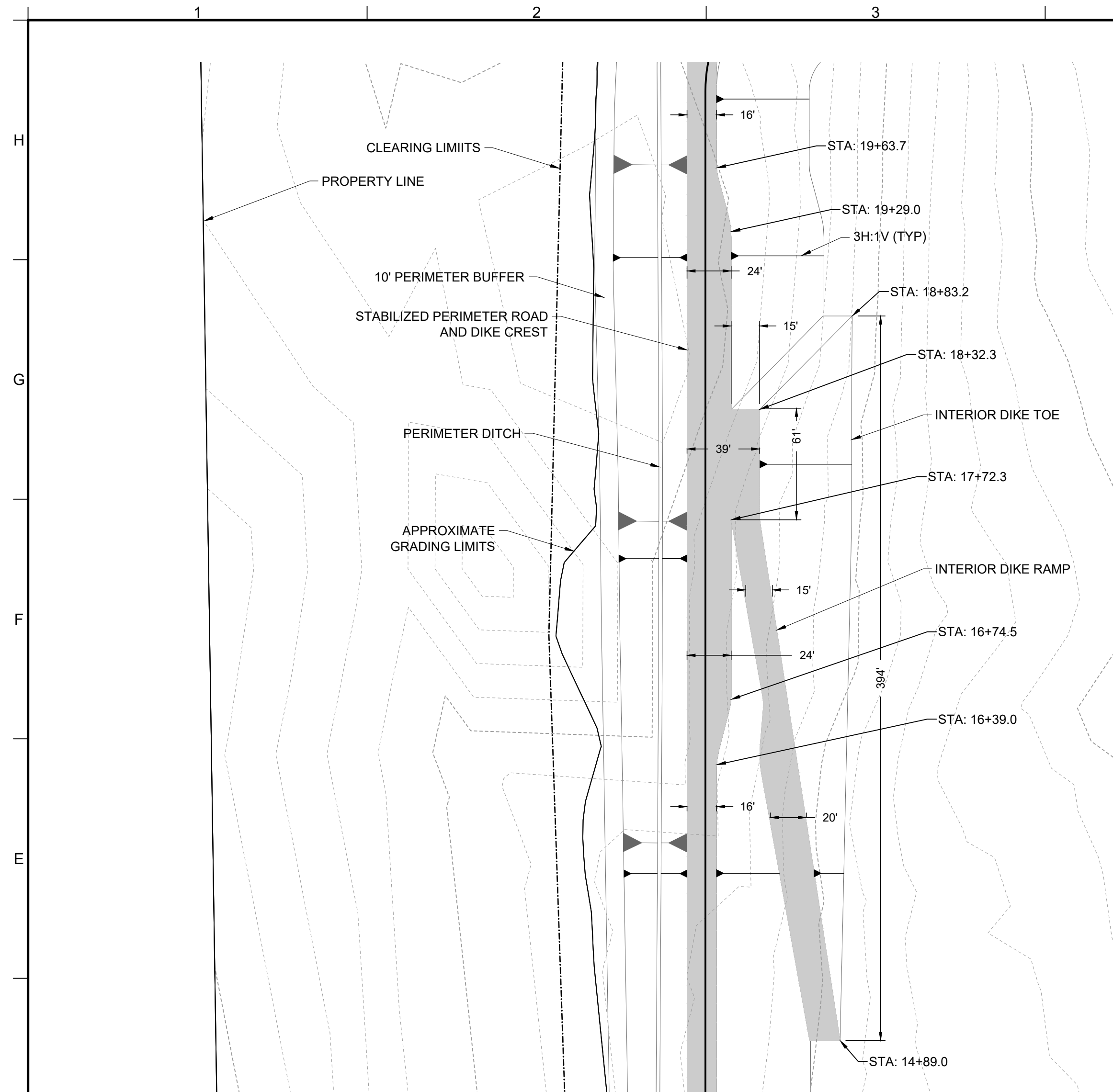
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PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

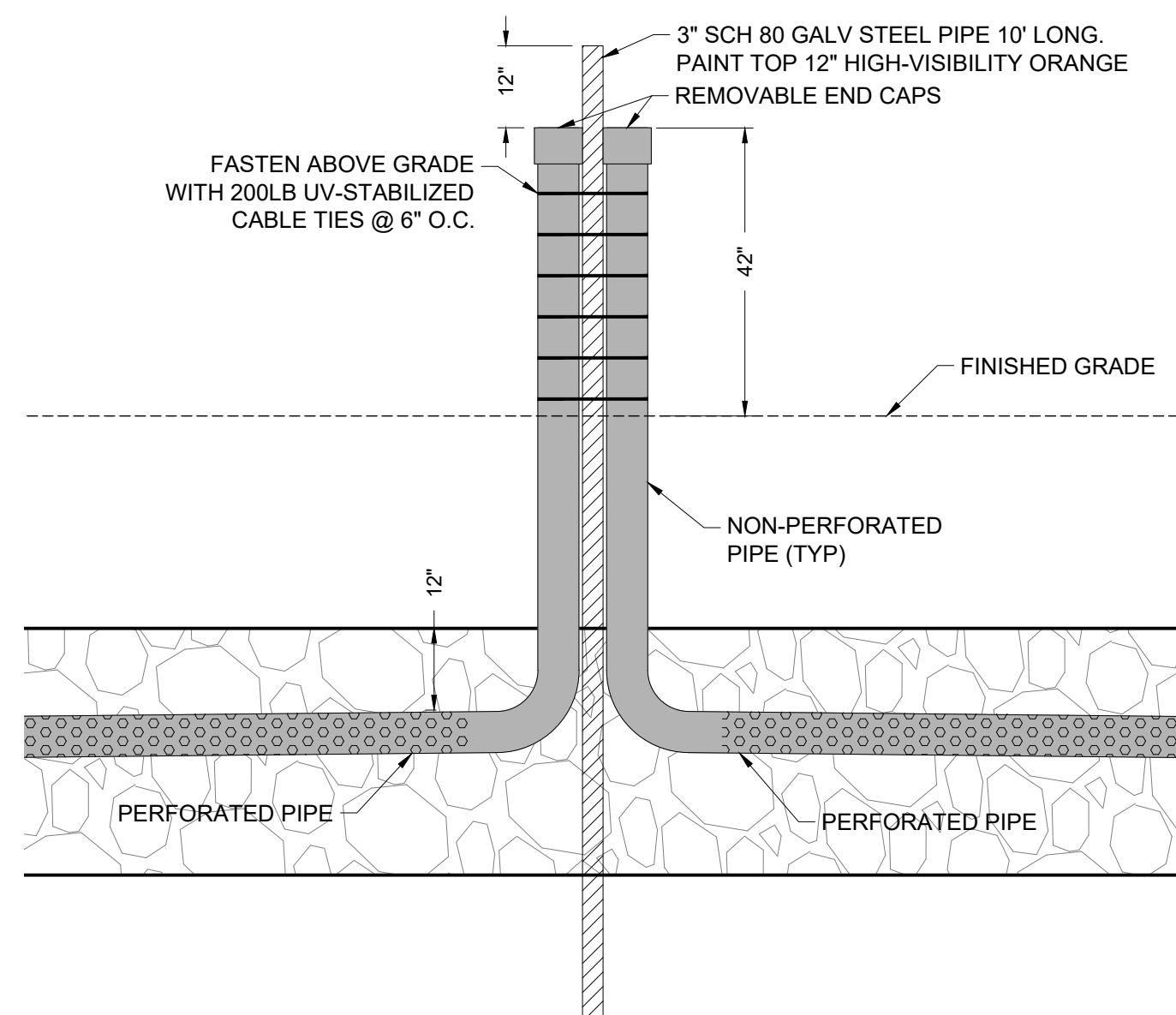
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INTERNAL
COLLECTOR DRAIN
PLAN

C-17
SHEET 17 OF 34

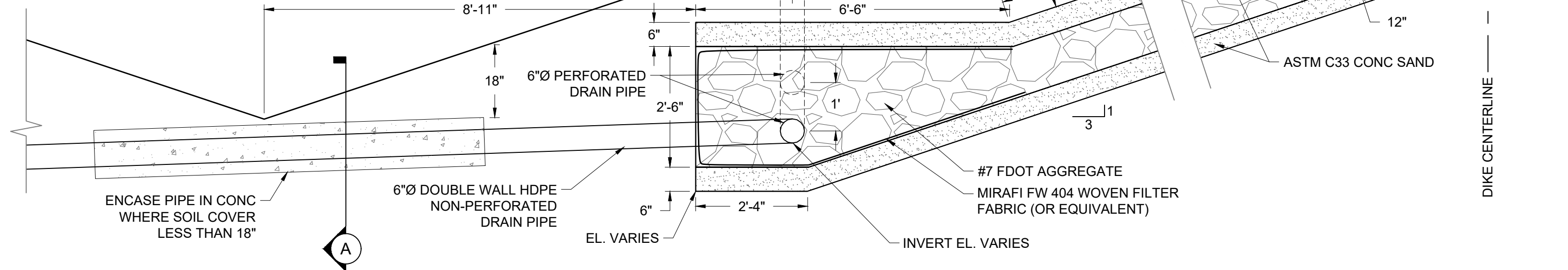
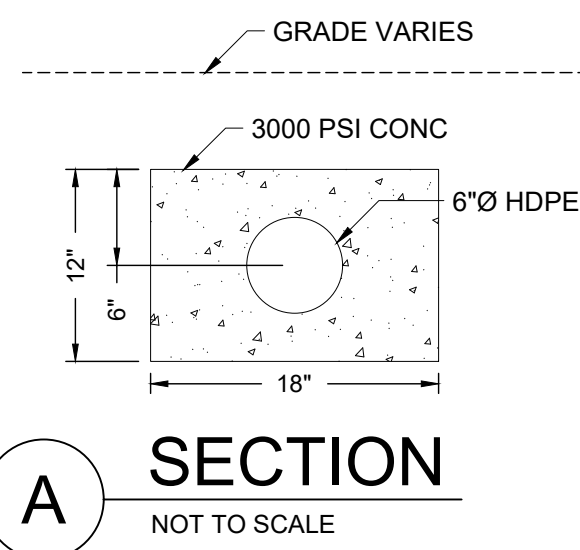
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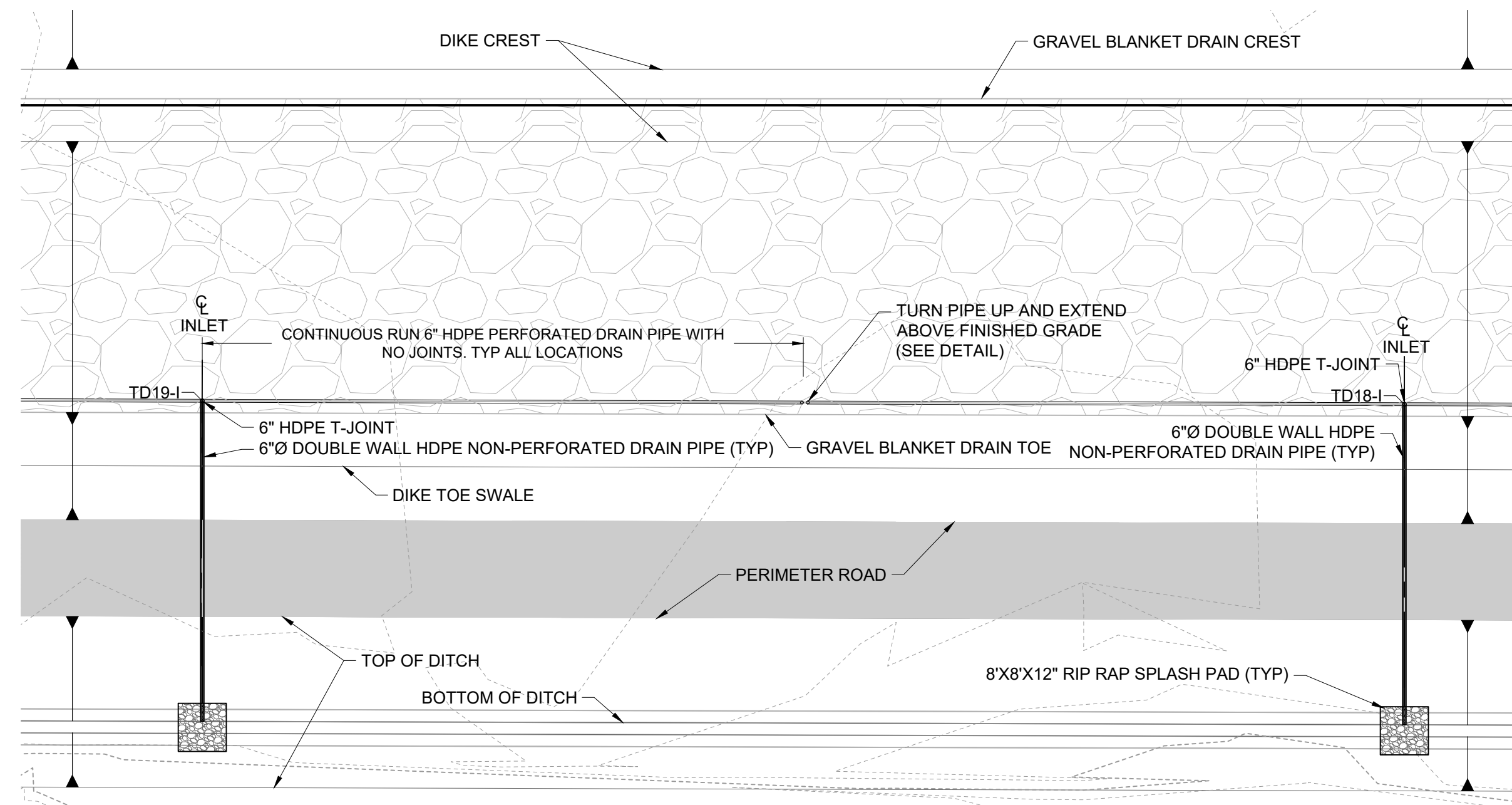
DIKE RAMP DETAIL
D27
C-6
22x34: 1" = 50'
11x17: 1" = 100'



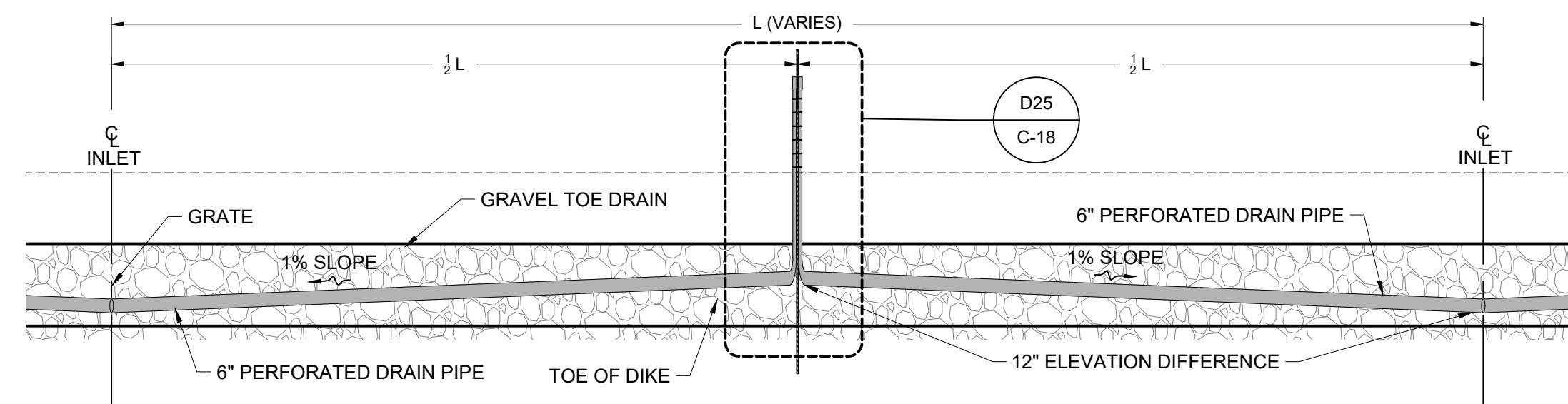
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D25
C-18
NOT TO SCALE



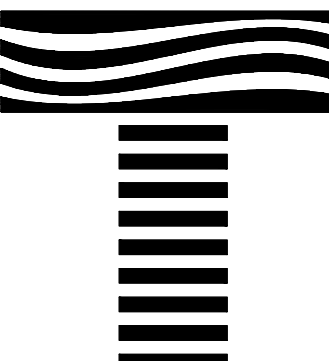
TYPICAL BLANKET DRAIN SECTION
22x34: 1" = 2'
11x17: 1" = 4'



TOE DRAIN PLAN DETAIL
D23
C-17
NOT TO SCALE



TOE DRAIN PLAN ELEVATION
D24
C-18
NOT TO SCALE

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KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE
**DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA**

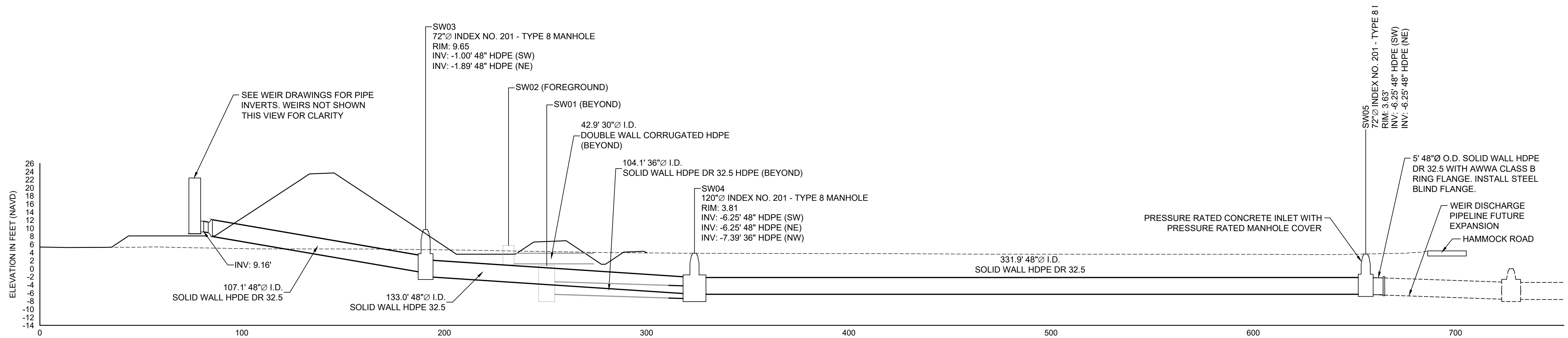
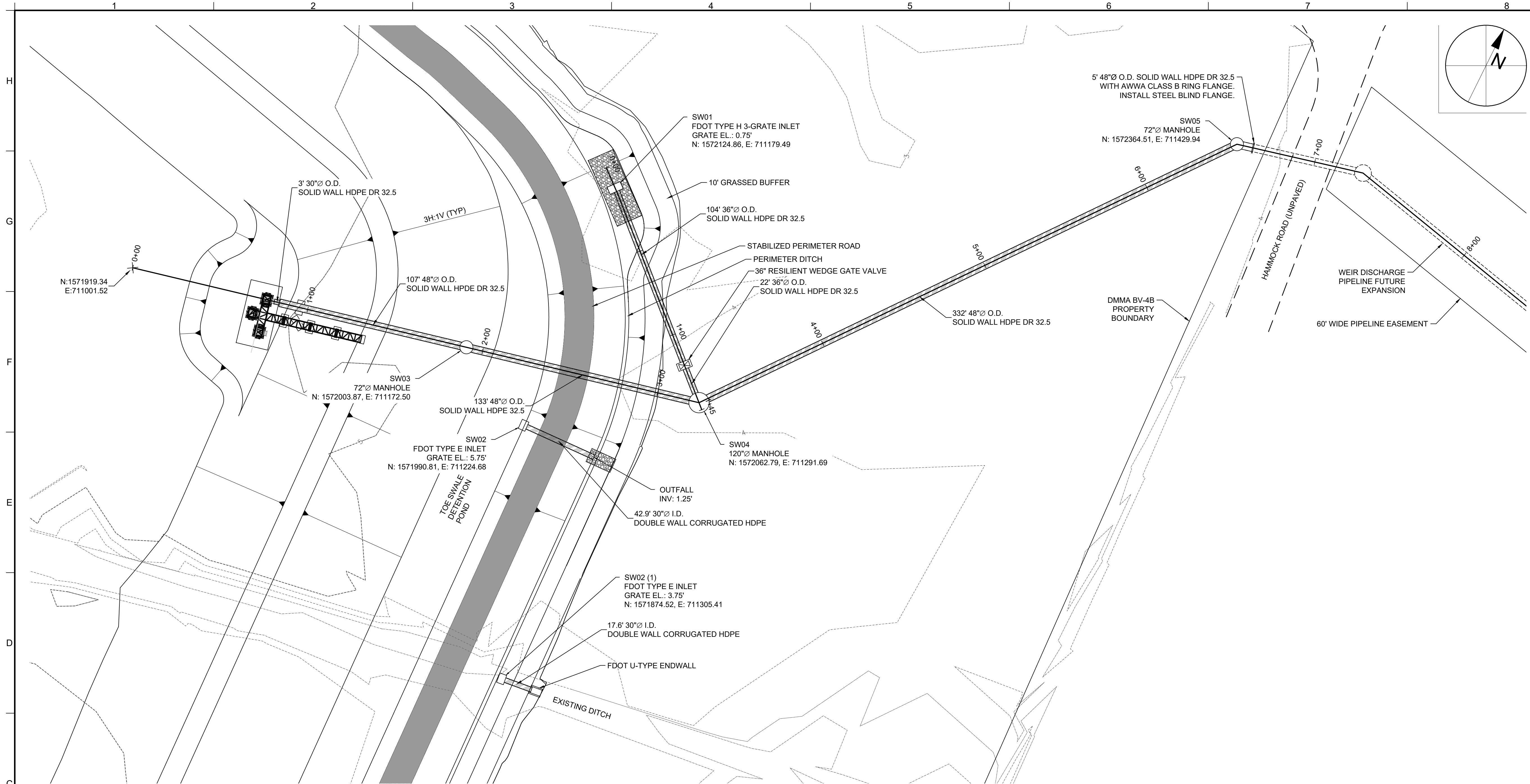
NO	REVISIONS / SUBMISSIONS	DATE
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PROJECT NO C2014-026-03
DATE SEPT 2022
DESIGNED KAK
DRAWN AF
CHECKED KAK
REVIEWED JTA

**INTERNAL
COLLECTOR DRAIN
DETAILS**

C-18
SHEET 18 OF 34

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KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE
**DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA**

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
2			
2			
2			
1			
NO			

Call **811** before you dig.

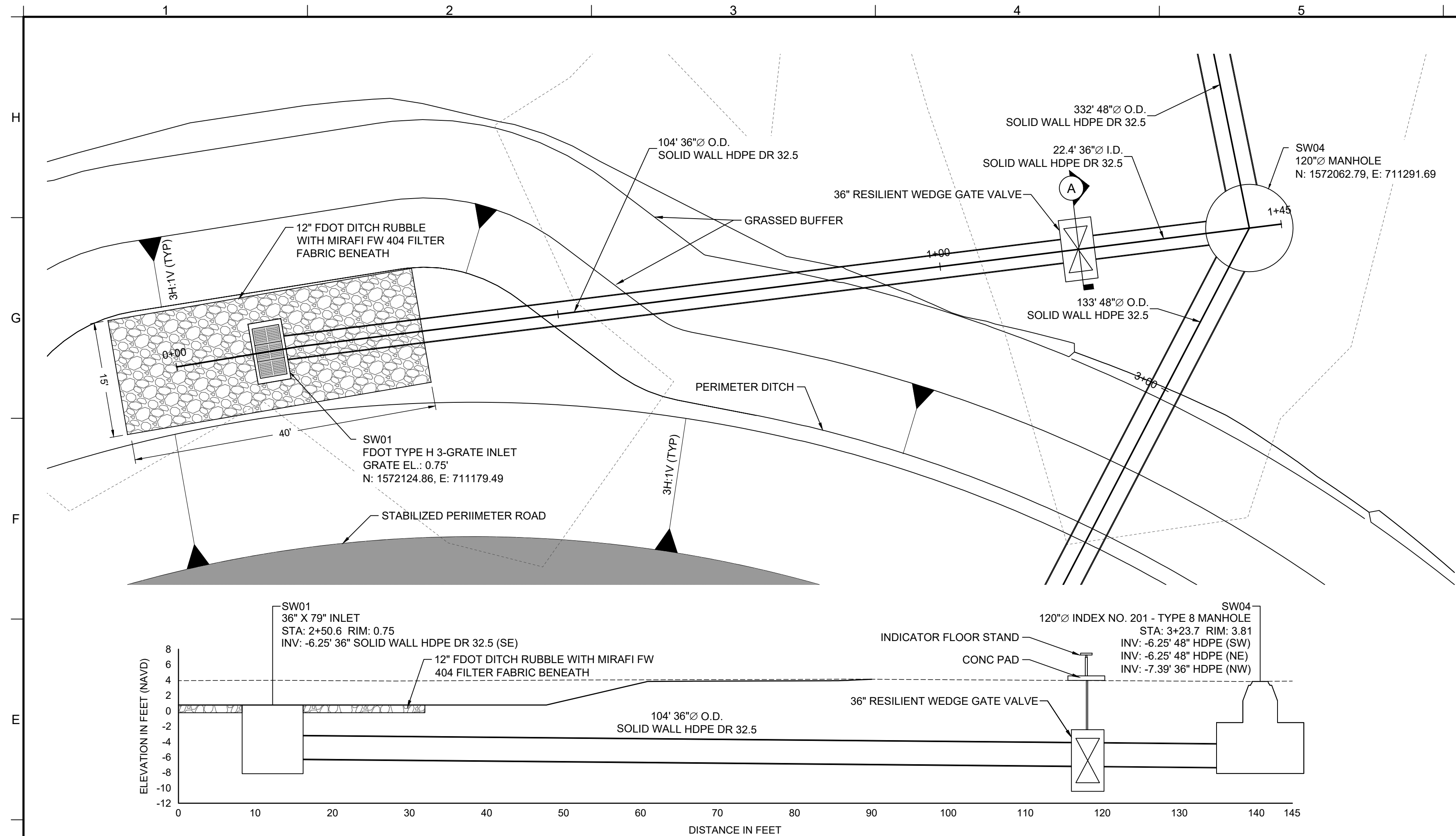
PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

SHEET TITLE
PIPE PROFILES

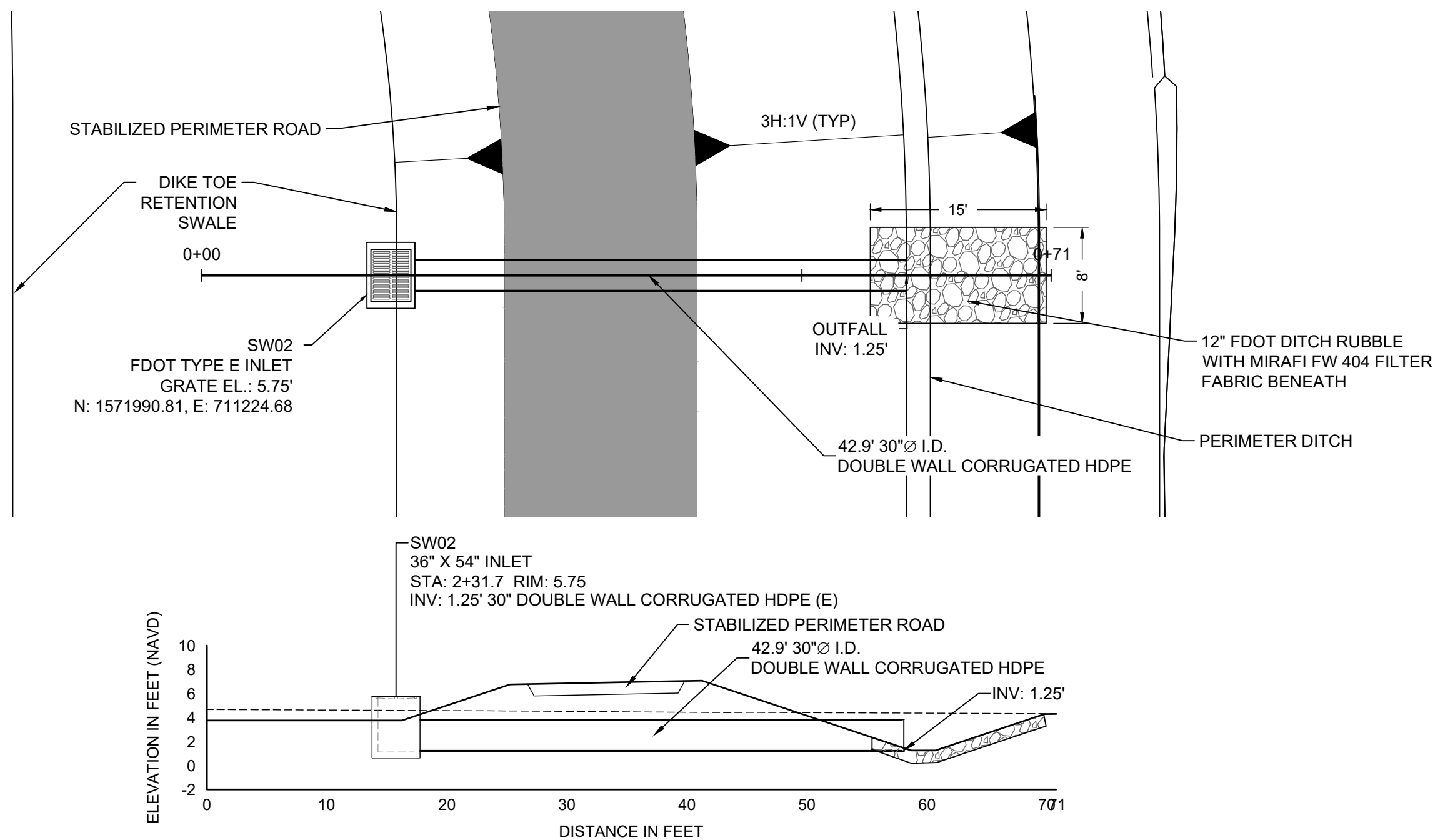
C-19

SHEET 19 OF 34

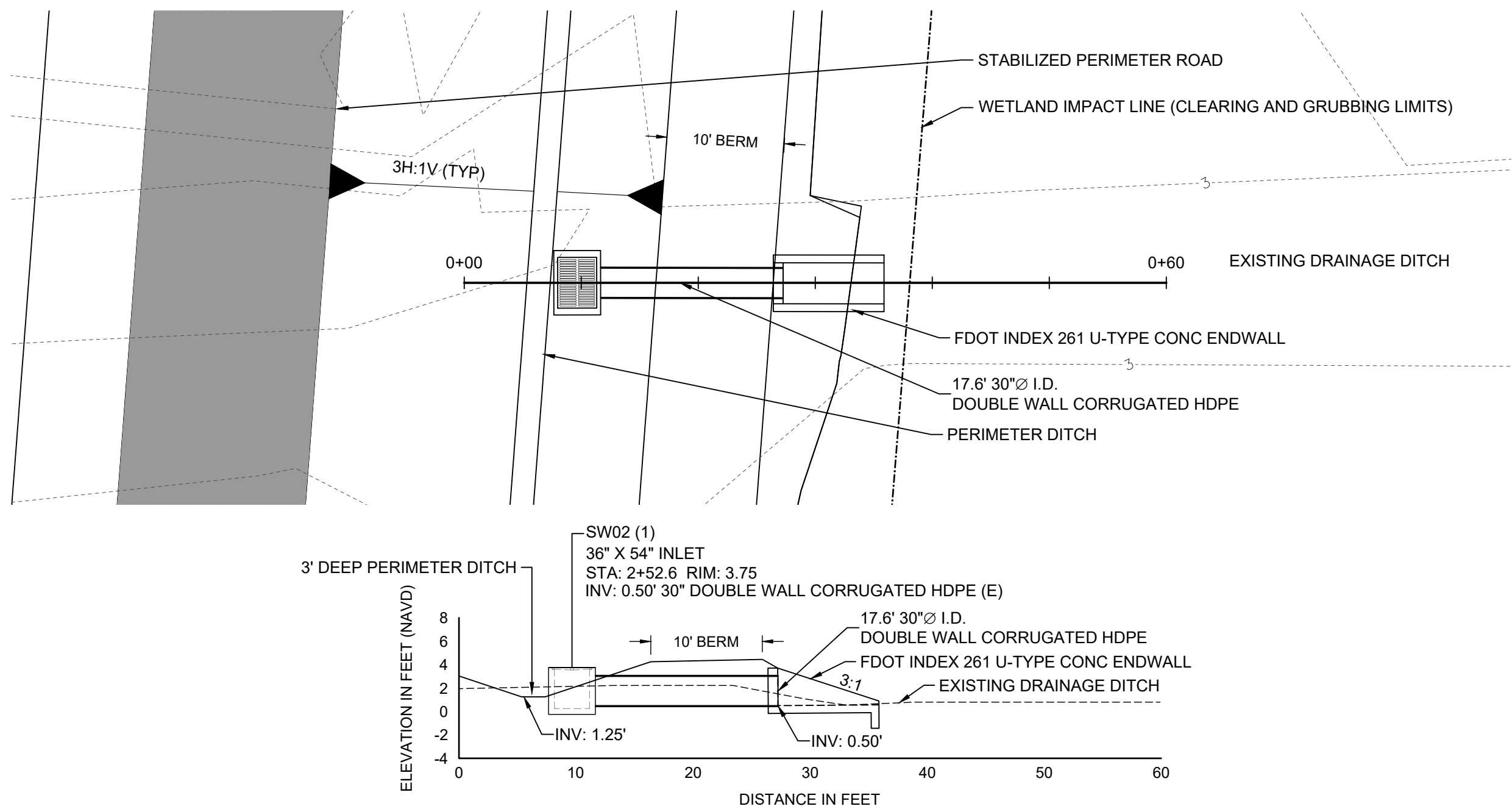
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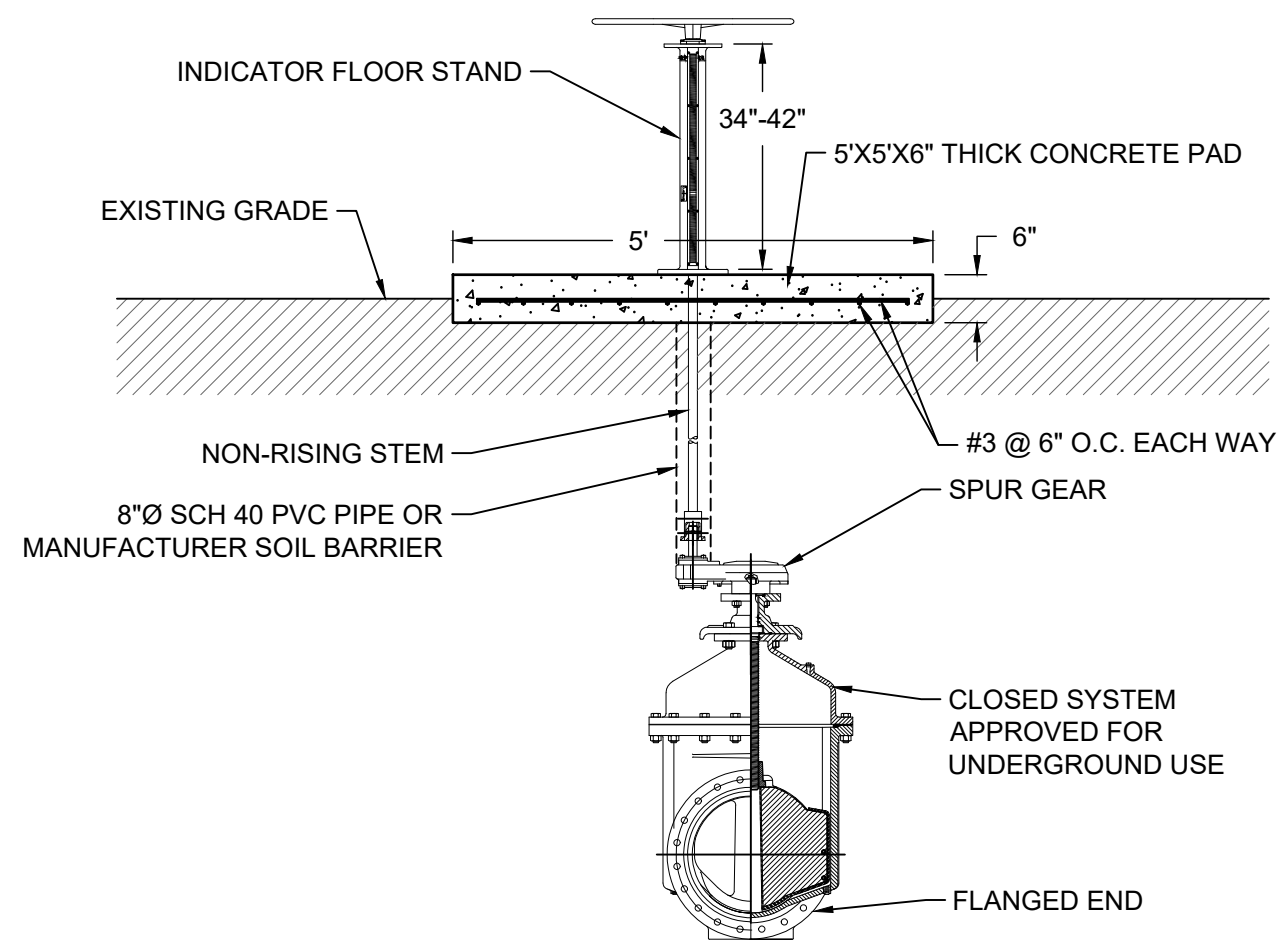
PERIMETER DITCH OUTLET PLAN AND PROFILE



RETENTION SWALE OUTLET PLAN AND PROFILE

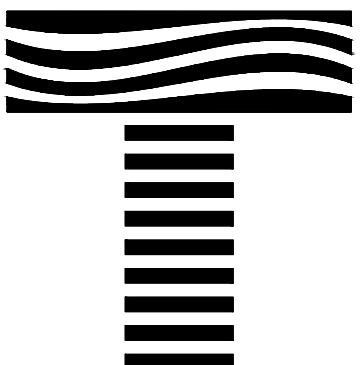


PERIMETER DITCH TEMP OVERFLOW INLET PLAN AND PROFILE



TYPICAL RESILIENT WEDGE GATE VALVE

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SEAL

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PROJECT TITLE
DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
1	NO		
2	NO		
3	NO		
4	NO		

Call 811 before you dig.

PROJECT NO	C2014-026-03
DATE	SEPT 2022
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DRAWN	AF
CHECKED	KAK
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SHEET TITLE

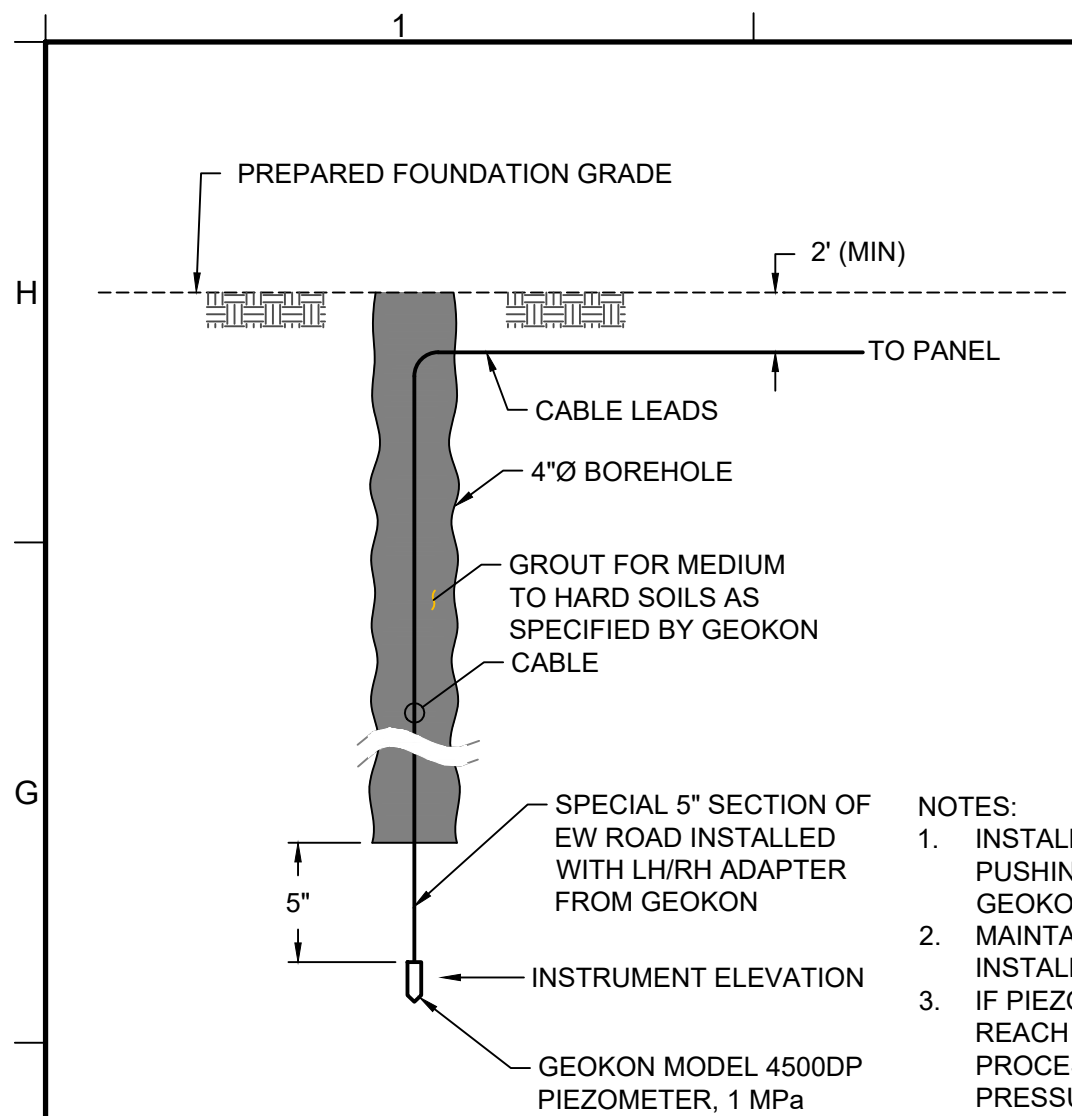
PIPE PROFILES AND
DETAILS

C-20

SHEET 20 OF 34

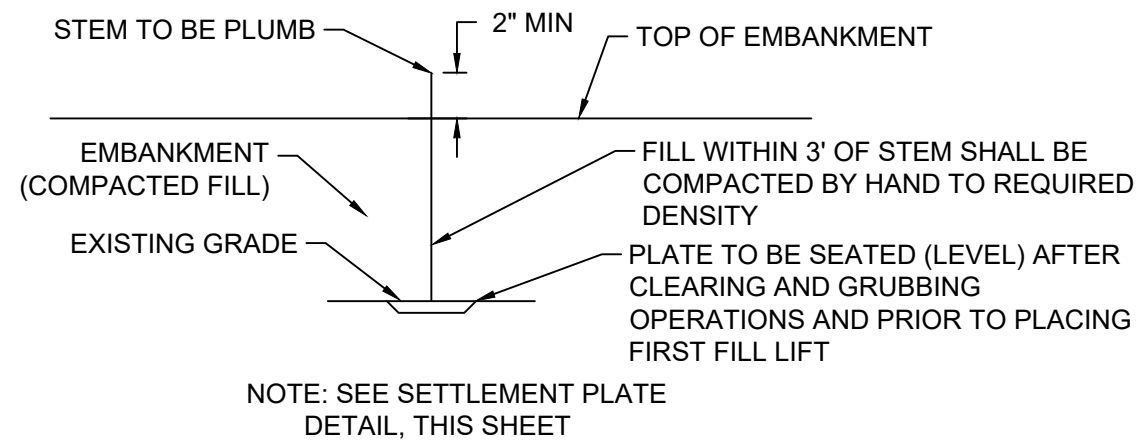
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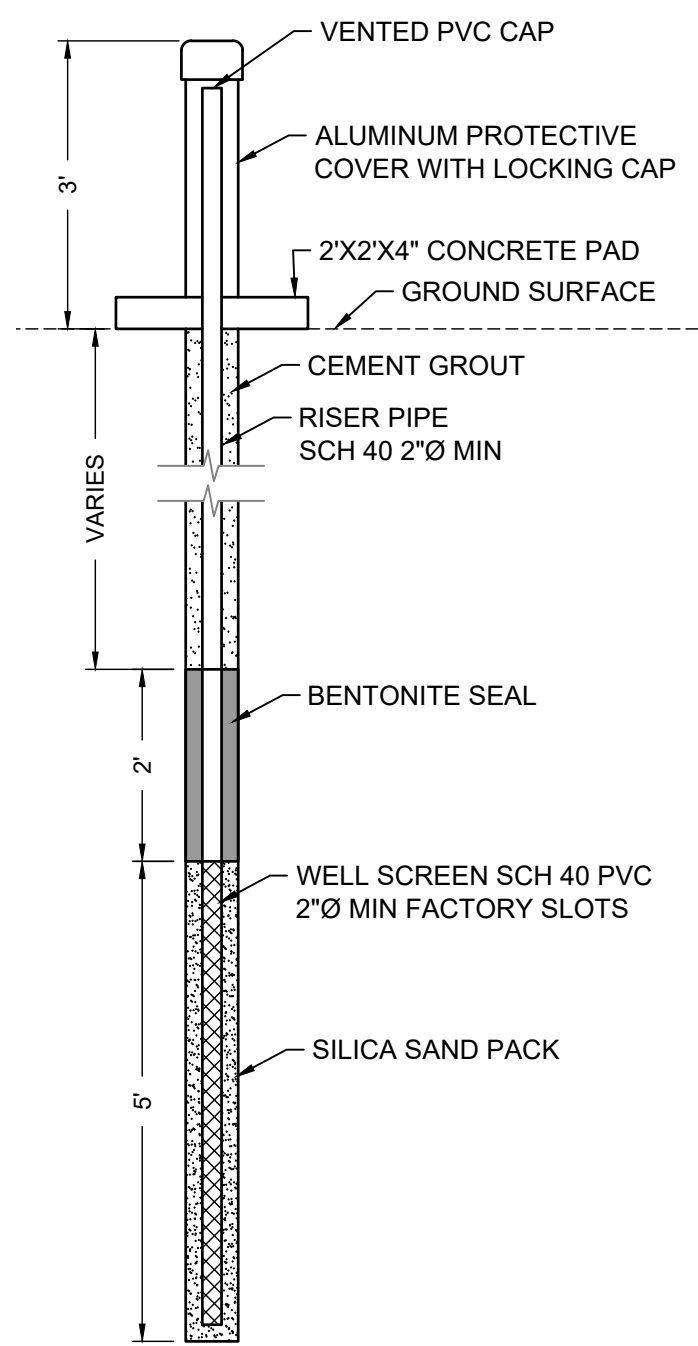
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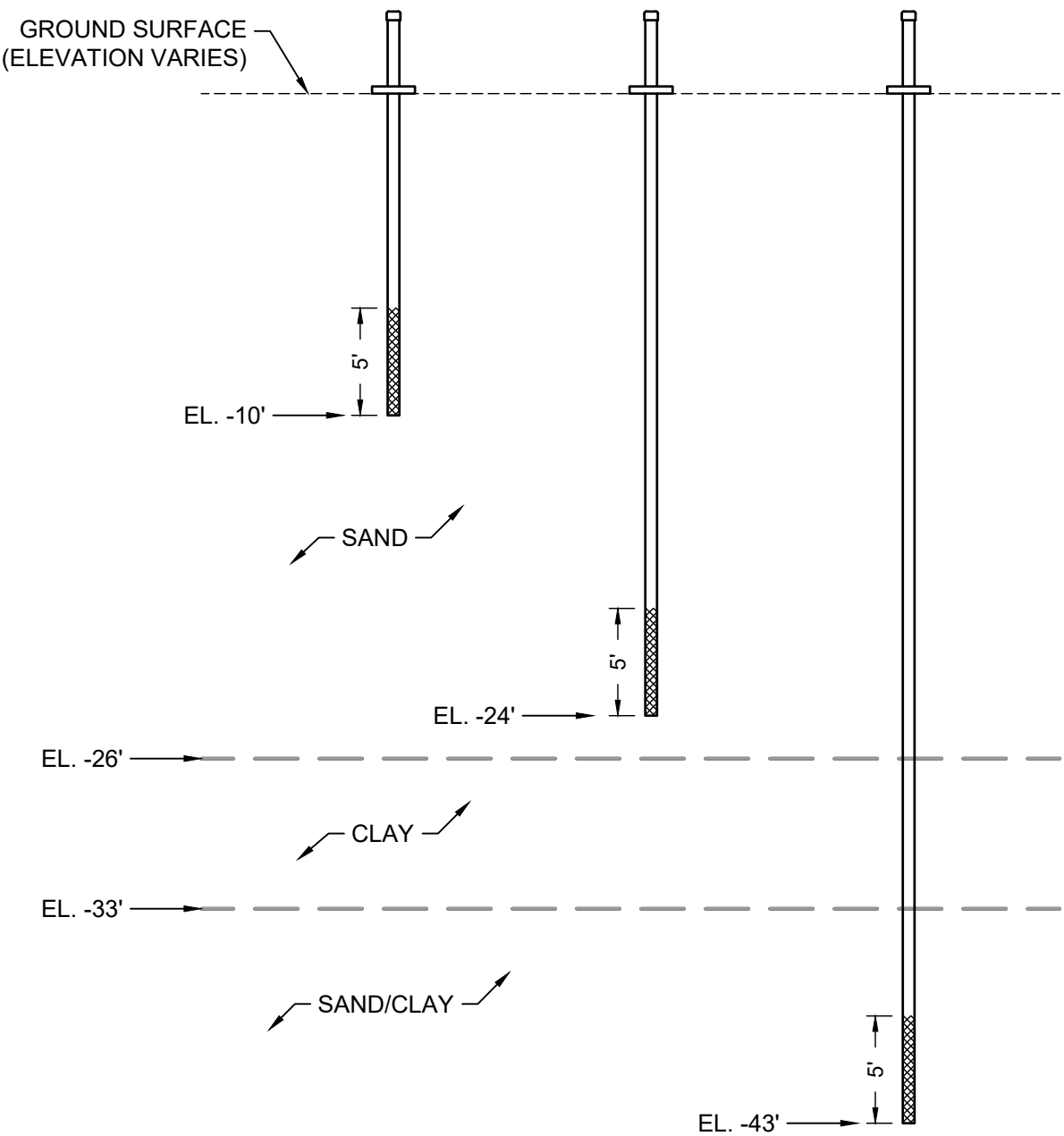
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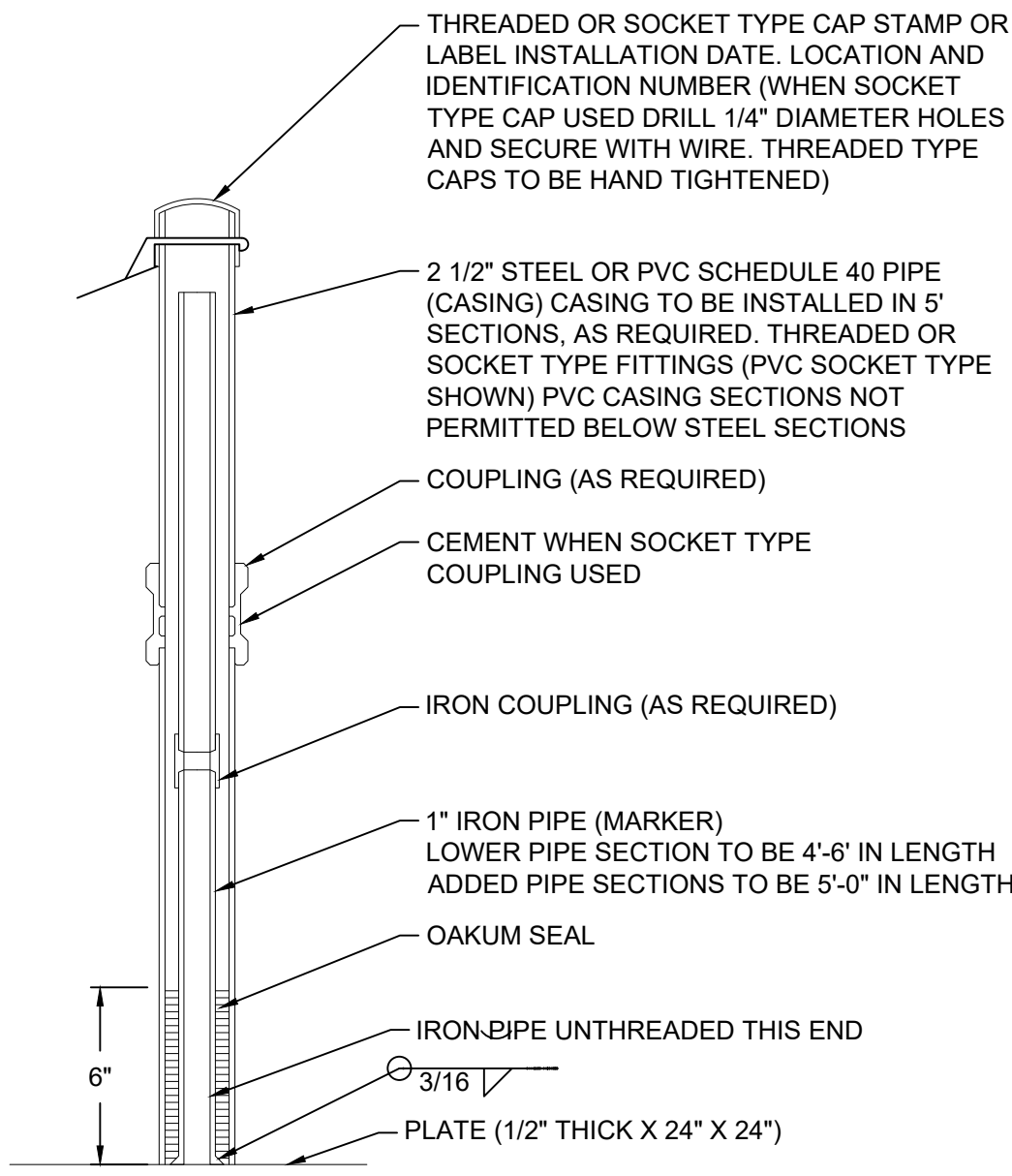
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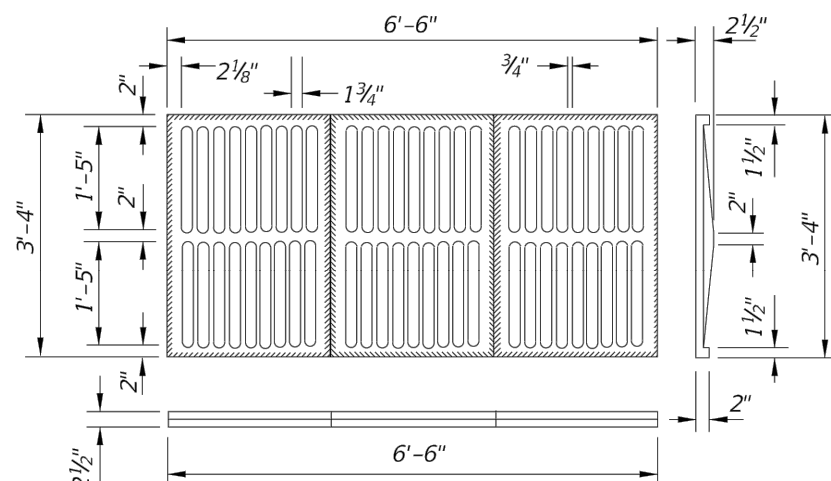
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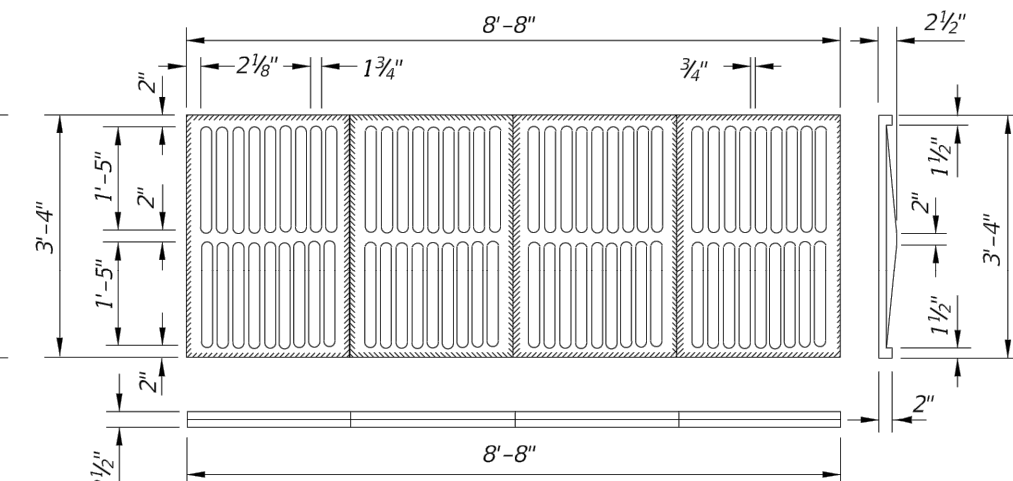
SETTLEMENT PLATE DETAIL

NOT TO SCALE



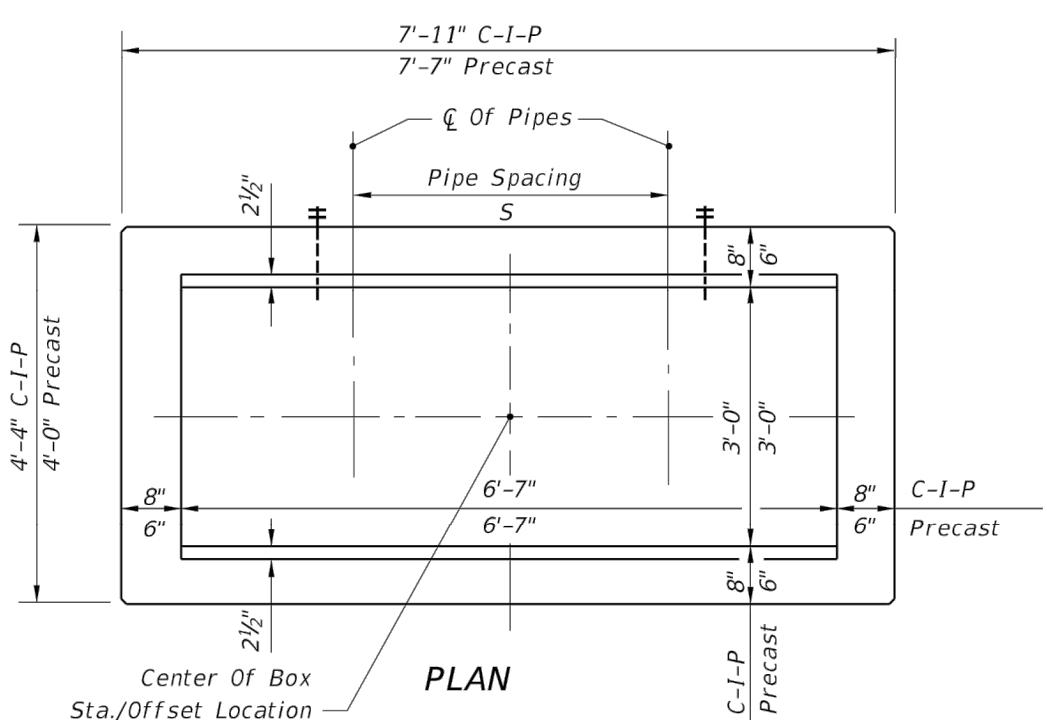
TYPE H (3-GRATE INLET)

Approx. Weight 725 Lbs.



TYPE H (4-GRATE INLET)

Approx. Weight 967 Lbs.

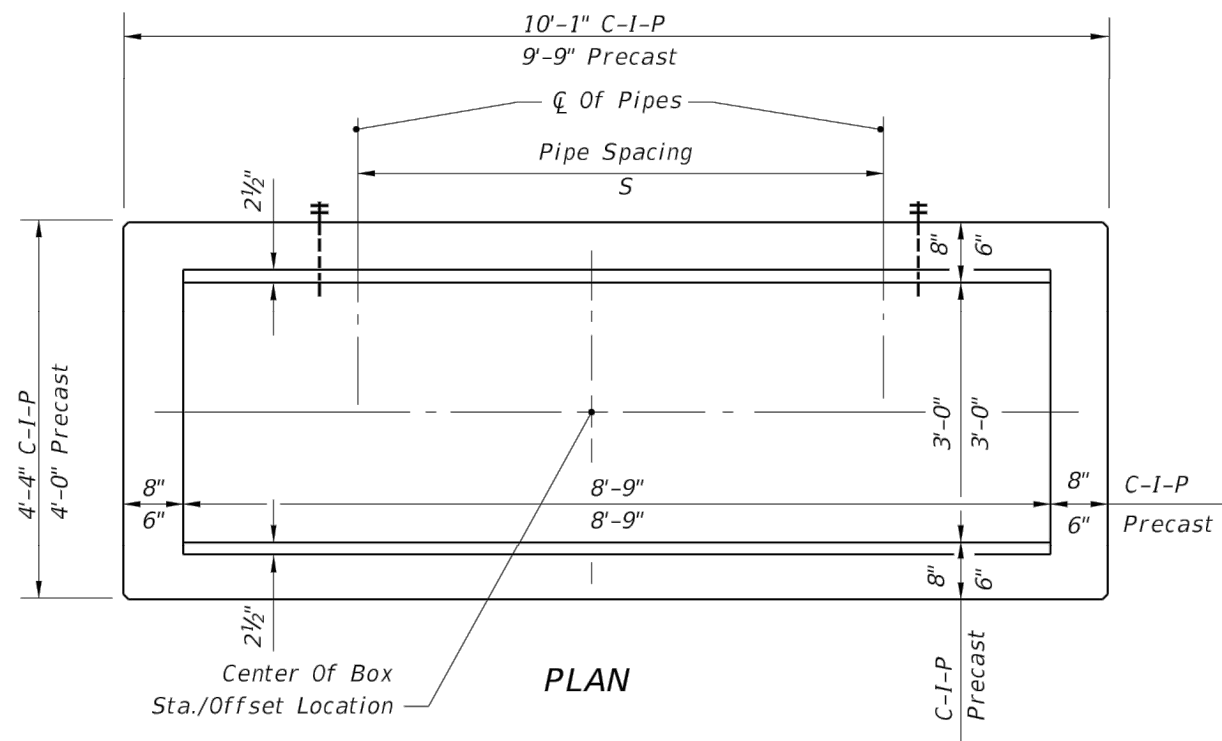


HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0'-5'	B5.5	0.24	5 1/2"	5"
5'-7'	C6.5	0.37	6 1/2"	6"
7'-15'	D4.5	0.53	4 1/2"	4"

TYPE H (2 & 3-GRATE INLET)

Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
6'-7" Wall - 1-60" Pipe
Or 2'-24" Pipe (S=3'-5")



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 5)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0'-5'	C3.5	0.37	3 1/2"	3"
5'-10'	D4.5	0.53	4 1/2"	4"

TYPE H (4-GRATE INLET)

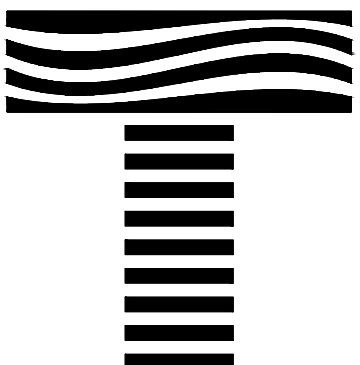
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
8'-9" Wall - 1-78" Pipe
Or 2'-30" Pipe (S=4'-3")

NOTE: SEE FDOT INDEX FOR ADDITIONAL INFORMATION

FDOT INDEX 232 TYPE H 3 & 4 GRATE INLET DETAIL

NOT TO SCALE

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KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE
DREDGED MATERIAL MANAGEMENT AREA
BV-4B
BREVARD COUNTY, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE
2	2	2	1
NO	NO	NO	NO

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PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

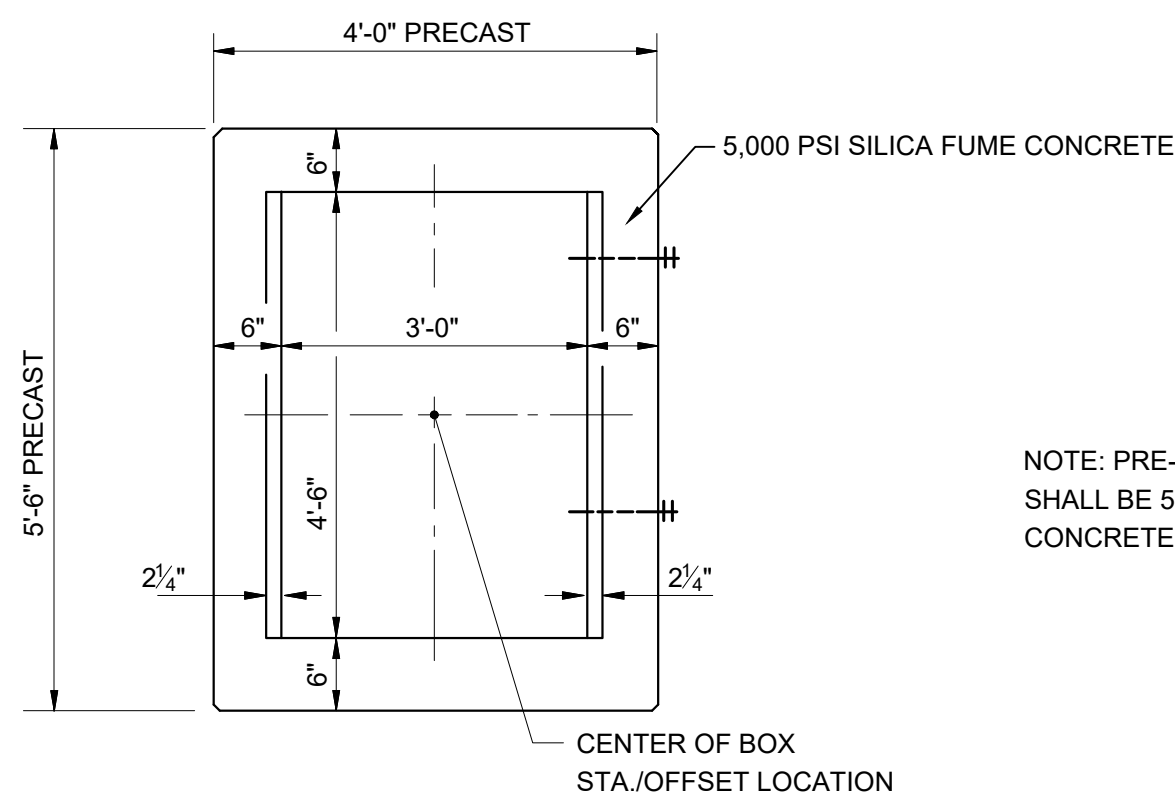
SHEET TITLE

DRAINAGE AND INSTRUMENTATION DETAILS

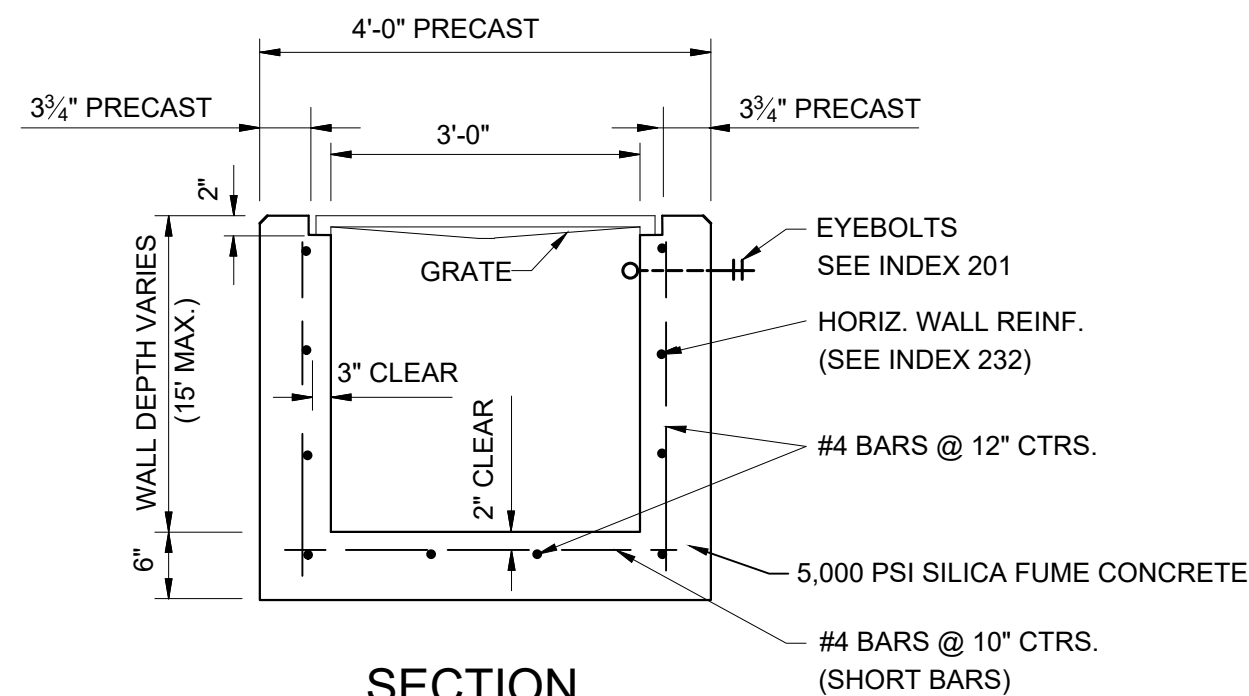
C-21

SHEET 21 OF 34

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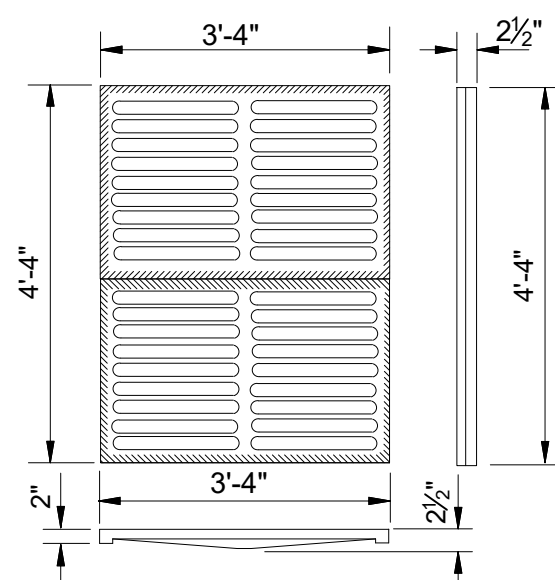


PLAN

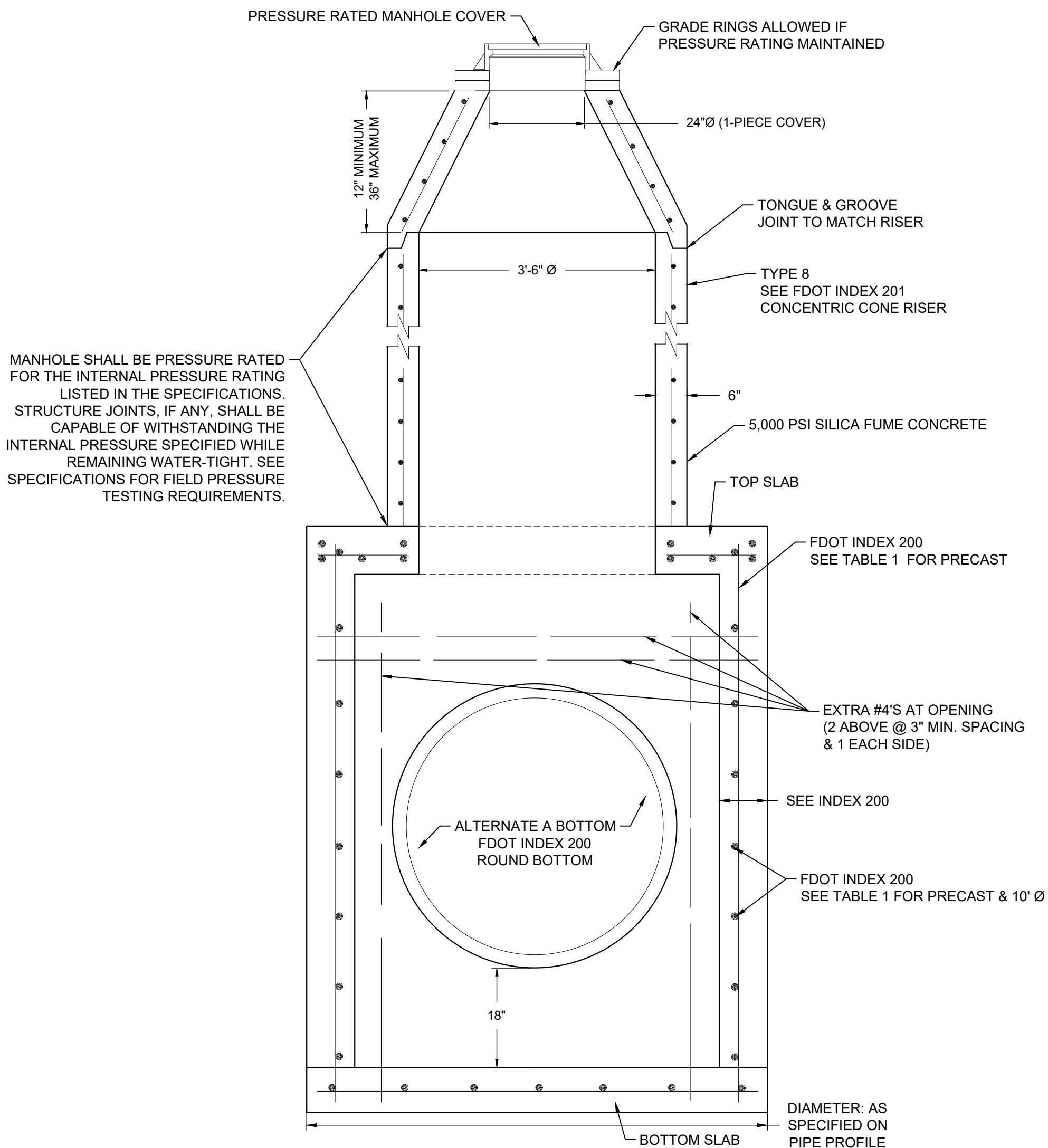


SECTION

FDOT INDEX 232 PRE-CAST TYPE E DITCH BOTTOM INLET
NOT TO SCALE

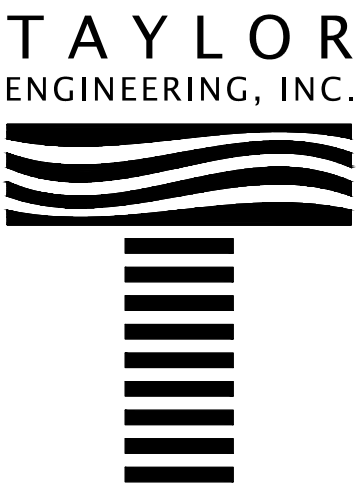


GRATE



MANHOLE DETAIL FDOT (MODIFIED INTERNAL PRESSURE RATED) INDEX 200
TYPE 8 PRE-CAST CONCENTRIC CONE RISER ALTERNATE A ROUND BOTTOM
NOT TO SCALE

NOTE: MANHOLE AND PIPE JOINTS SHALL BE WATER TIGHT TO 13 PSI. SEE SPECIFICATIONS



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PROJECT TITLE
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NO	REVISIONS / SUBMISSIONS	DATE
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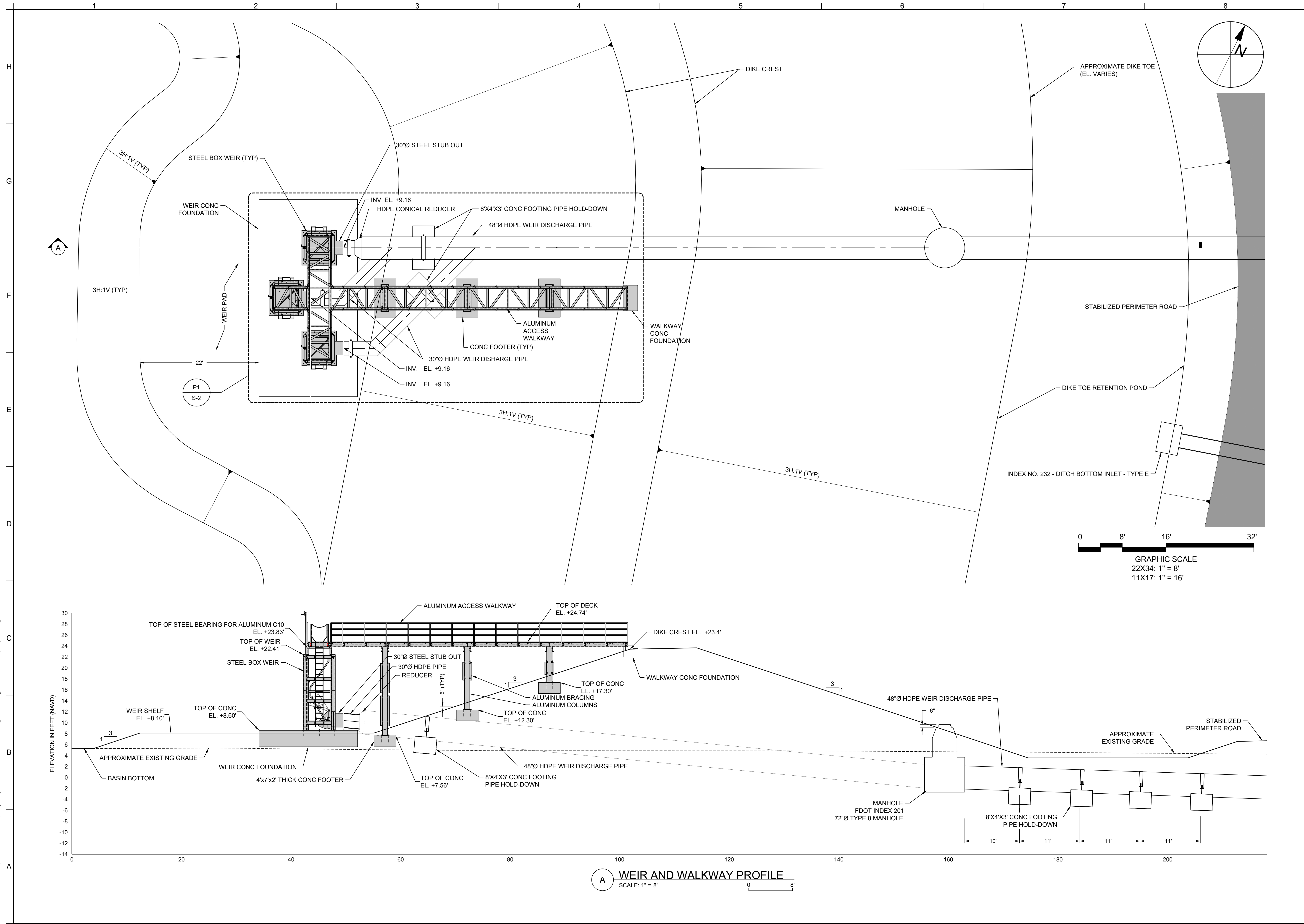
SHEET TITLE

DRAINAGE DETAILS

C-22

SHEET 22 OF 34

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PROJECT TITLE
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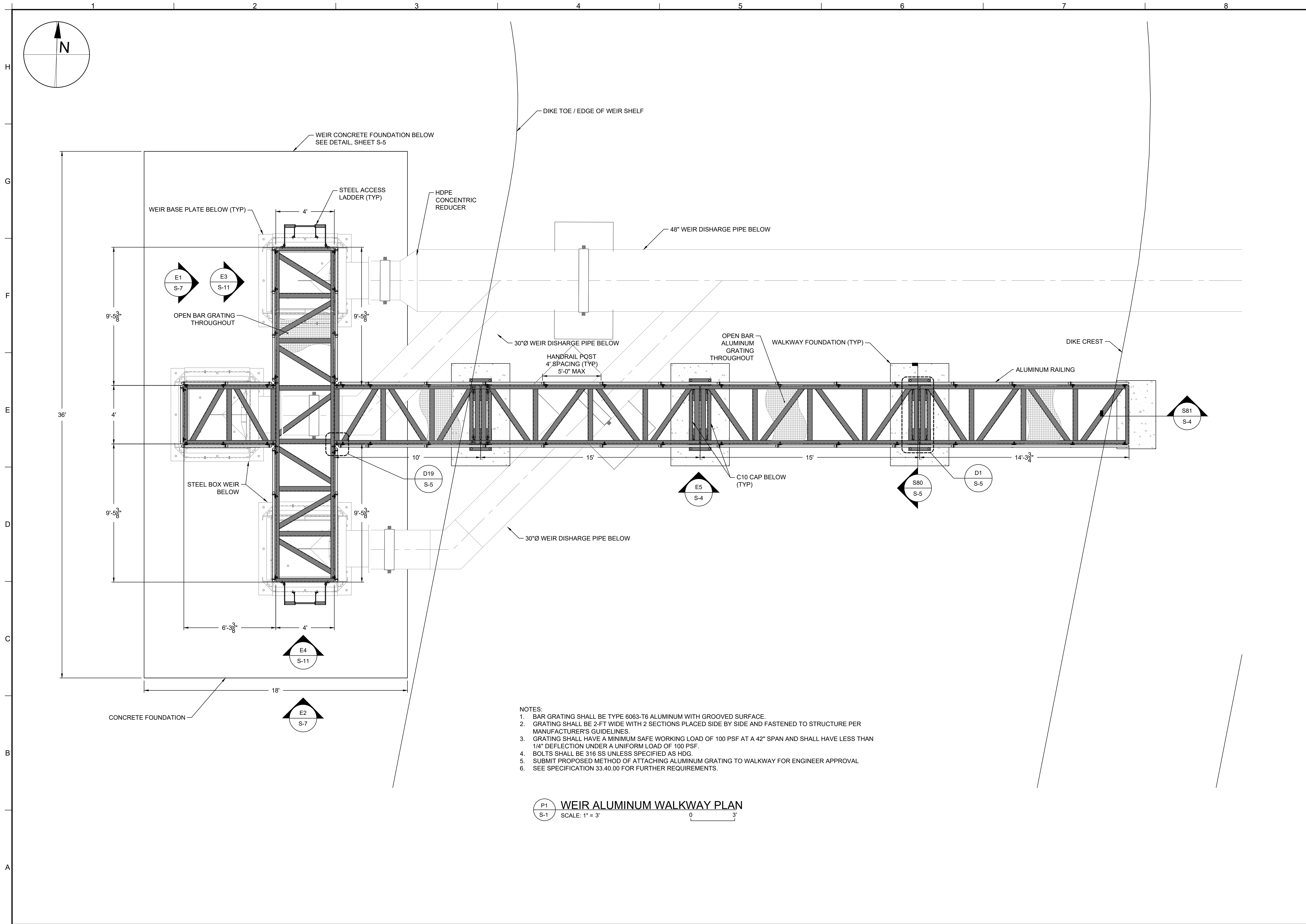
PROJECT NO	C2014-026-03
DATE	SEPT 2022
DESIGNED	KAK
DRAWN	AF
CHECKED	KAK
REVIEWED	JTA

SHEET TITLE
WEIR PLAN AND PROFILE

S-1

SHEET 23 OF 34

ANTON FLEWELLING, 02/27/2022 3:32:22 PM, X:\lays\Projects\2014-026 FND BV-4B Design & Permitting\Construction\Weir Walkway Plan.dwg



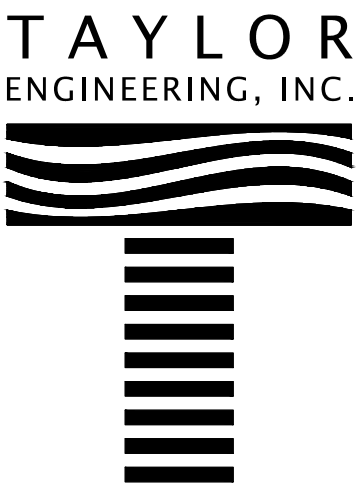
- NOTES:
1. BAR GRATING SHALL BE TYPE 6063-T6 ALUMINUM WITH GROOVED SURFACE.
 2. GRATING SHALL BE 2-FT WIDE WITH 2 SECTIONS PLACED SIDE BY SIDE AND FASTENED TO STRUCTURE PER MANUFACTURER'S GUIDELINES.
 3. GRATING SHALL HAVE A MINIMUM SAFE WORKING LOAD OF 100 PSF AT A 42" SPAN AND SHALL HAVE LESS THAN 1/4" DEFLECTION UNDER A UNIFORM LOAD OF 100 PSF.
 4. BOLTS SHALL BE 316 SS UNLESS SPECIFIED AS HDG.
 5. SUBMIT PROPOSED METHOD OF ATTACHING ALUMINUM GRATING TO WALKWAY FOR ENGINEER APPROVAL.
 6. SEE SPECIFICATION 33.40.00 FOR FURTHER REQUIREMENTS.

P1
S-1

WEIR ALUMINUM WALKWAY PLAN

SCALE: 1" = 3'

0 3'



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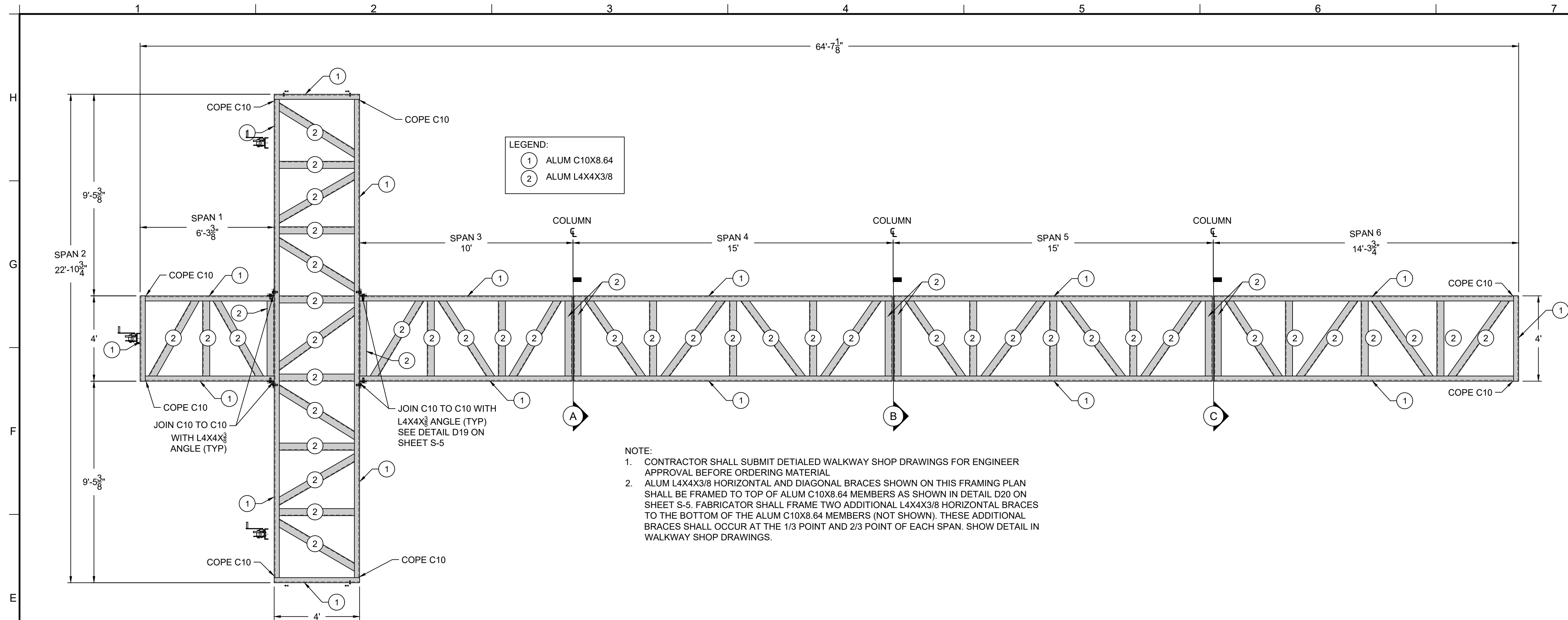
SHEET TITLE

**ALUMINUM
WALKWAY PLAN**

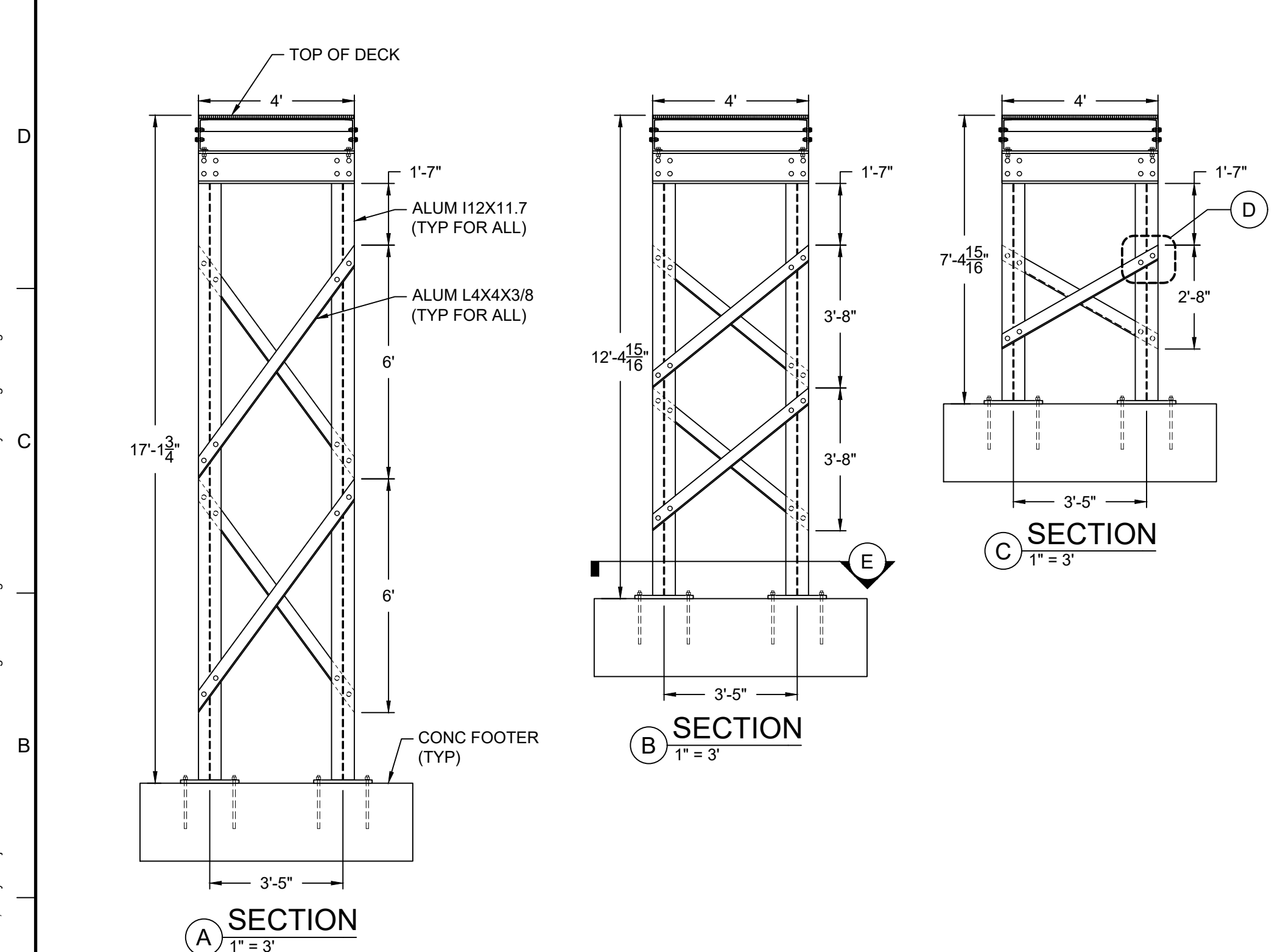
S-2

SHEET 24 OF 34

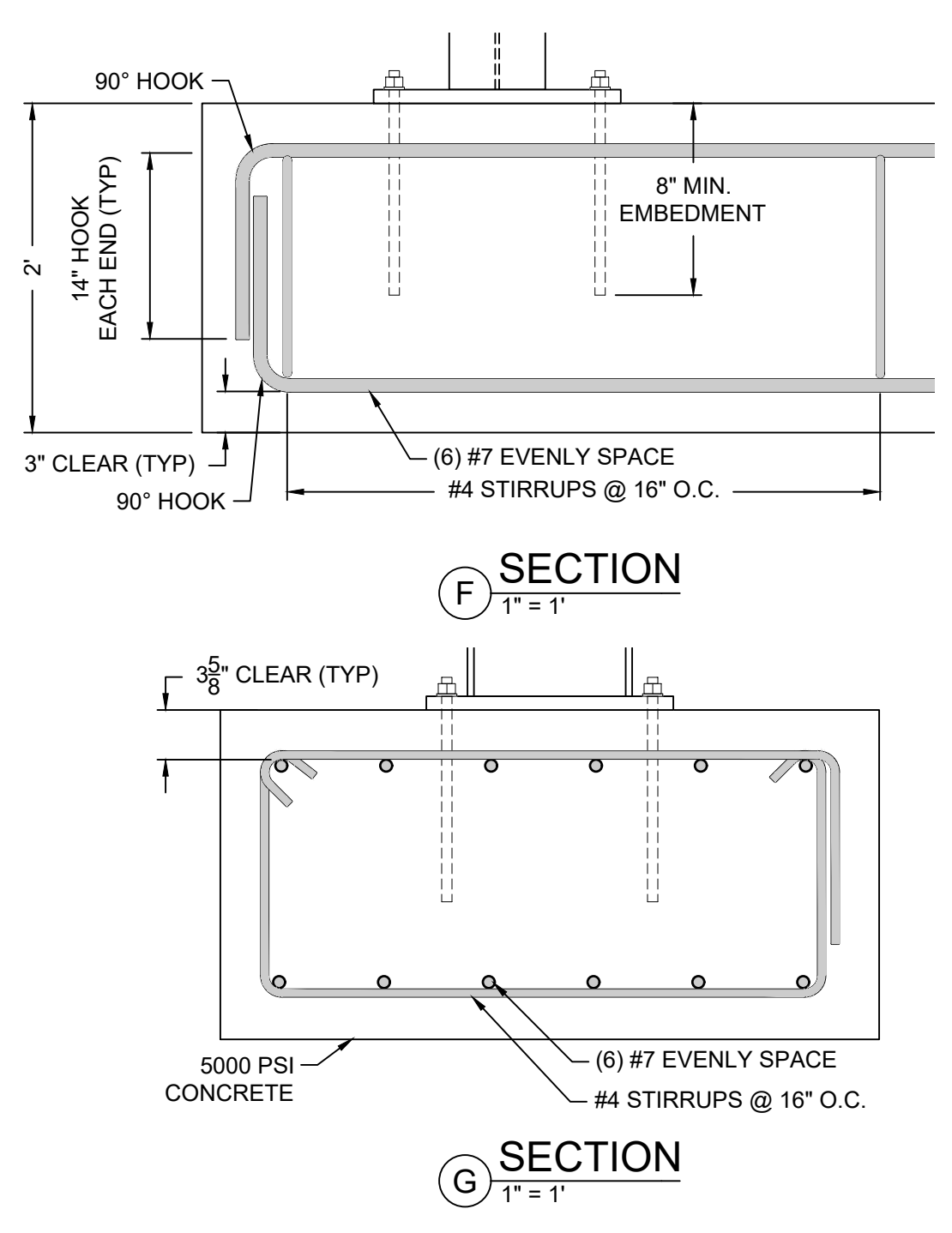
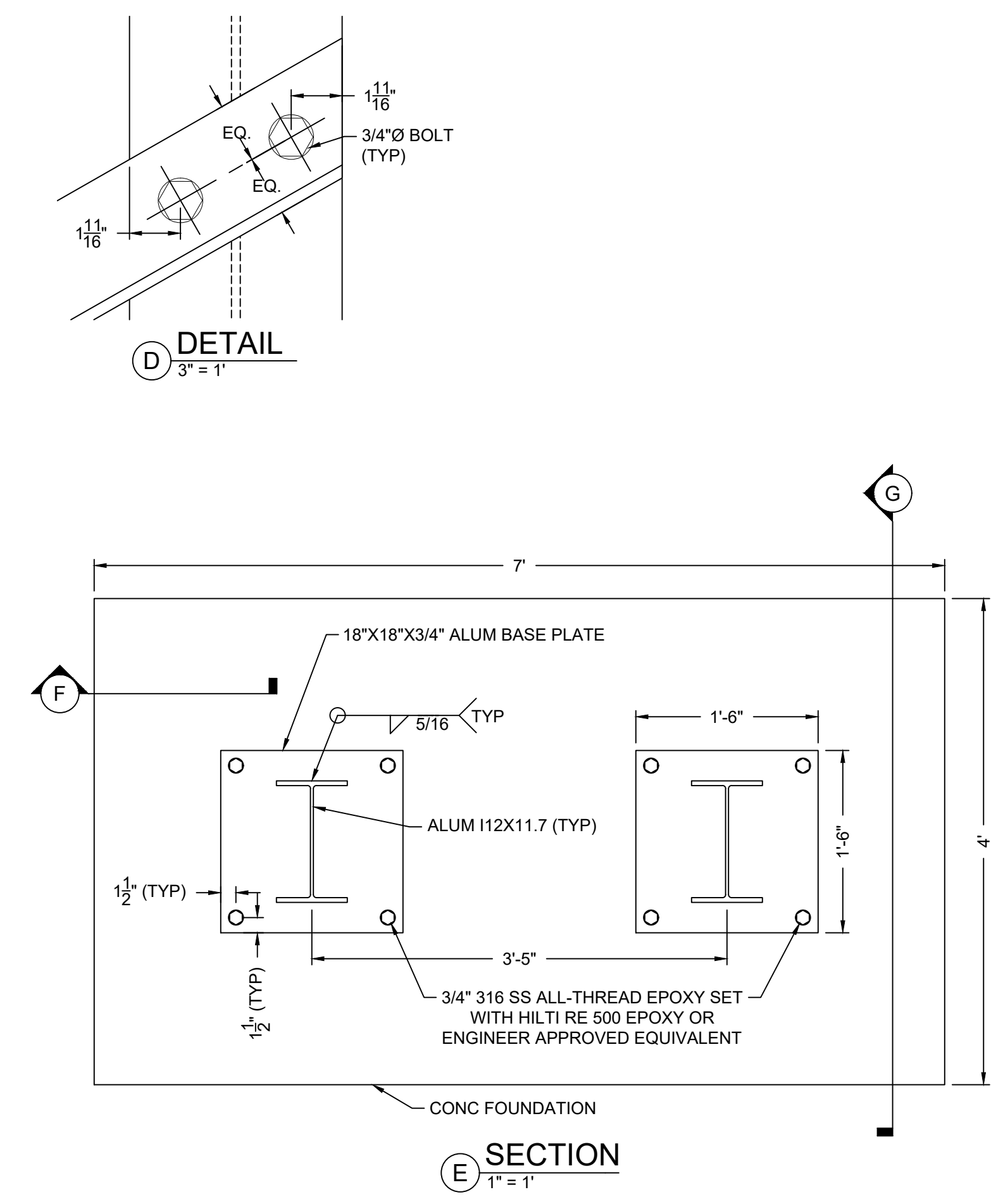
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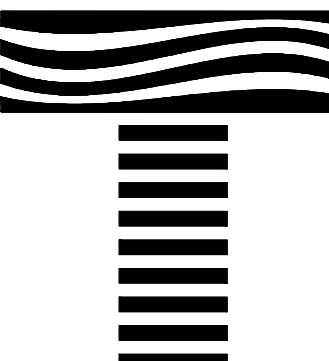
ALUM WALKWAY FRAMING PLAN
SCALE: 1" = 3'



ALUM WALKWAY PILE BRACING DETAILS
SCALE: 1" = 3'



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PROJECT TITLE
DREDGED MATERIAL MANAGEMENT AREA
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BREVARD COUNTY, FLORIDA

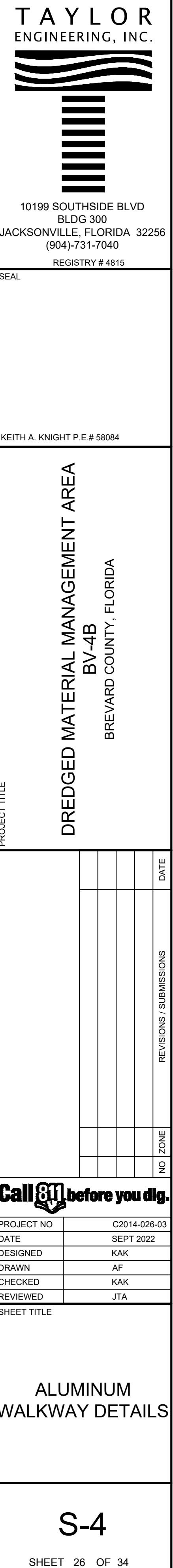
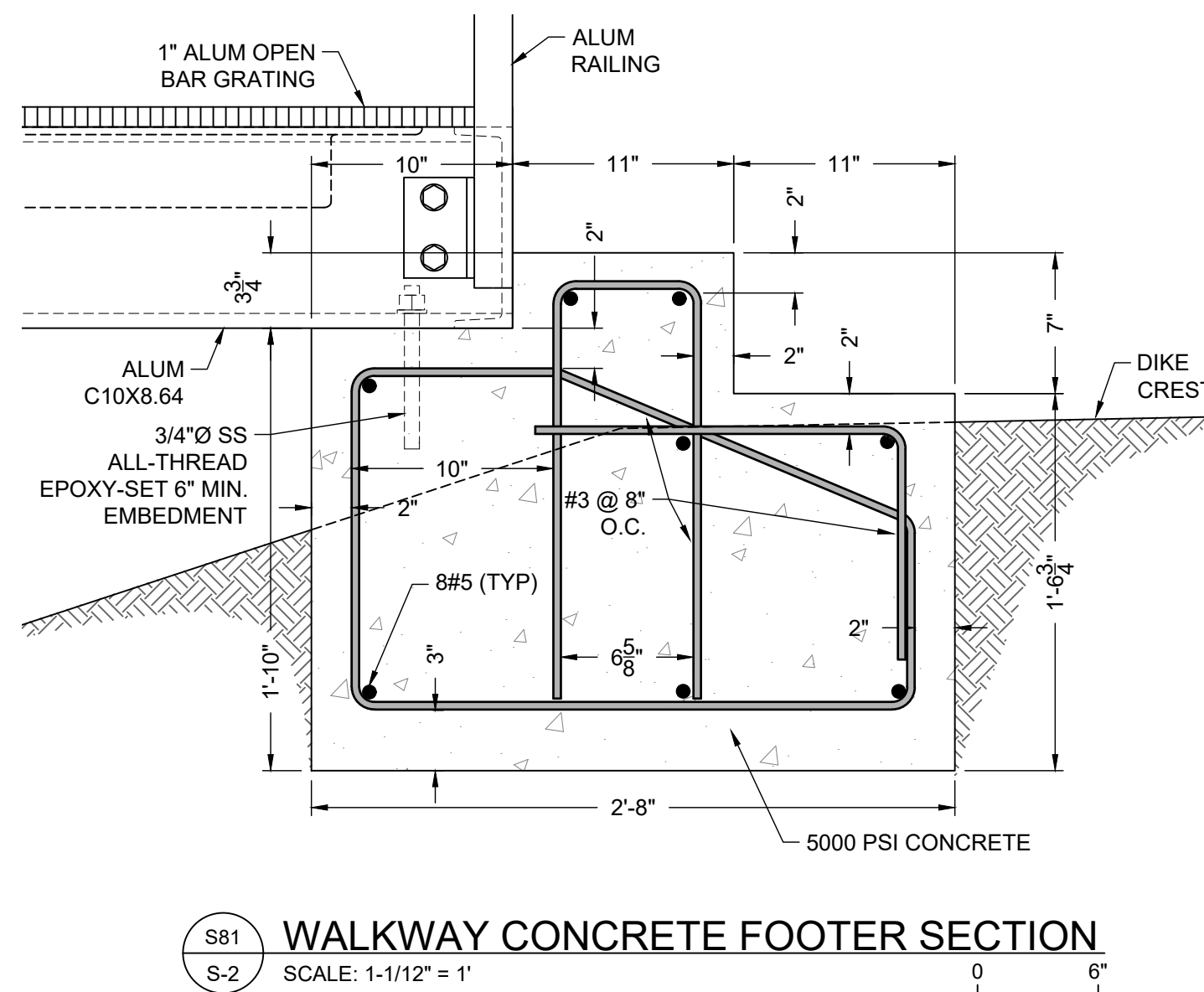
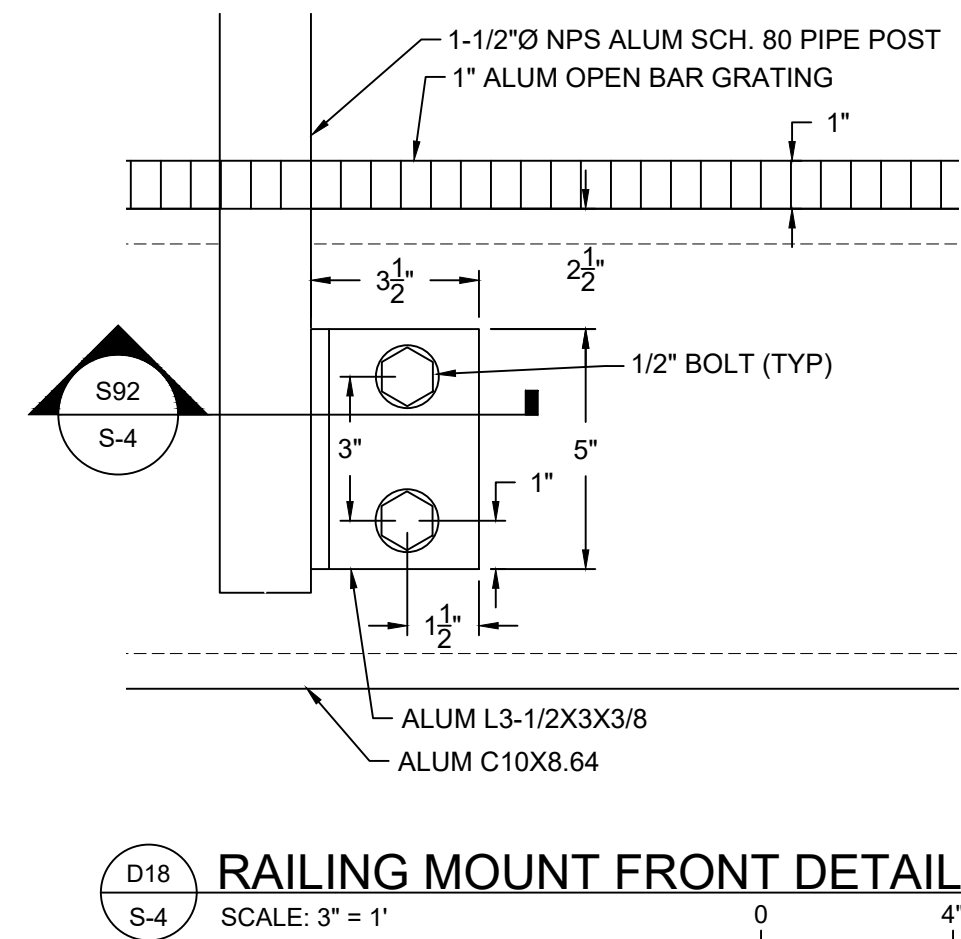
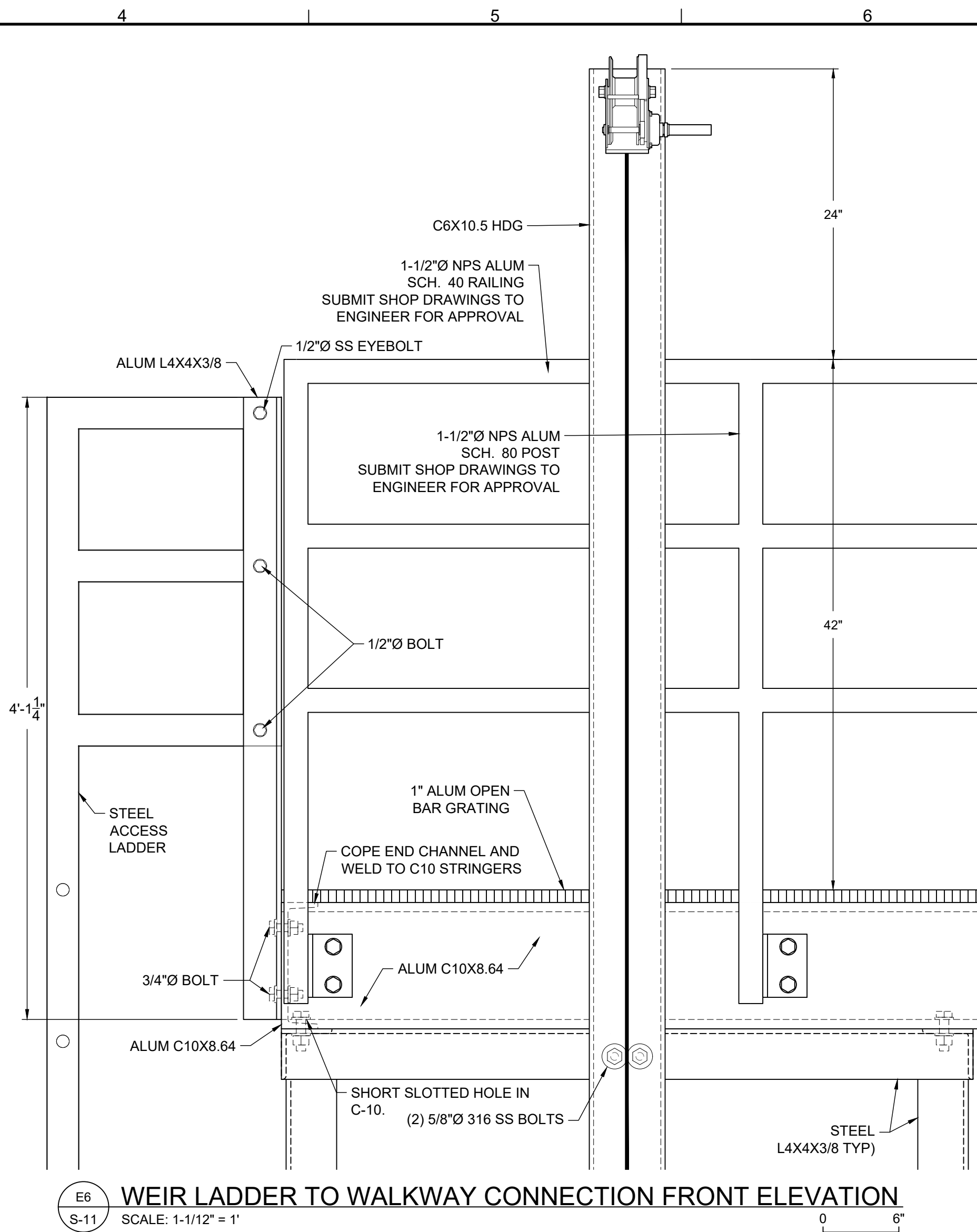
NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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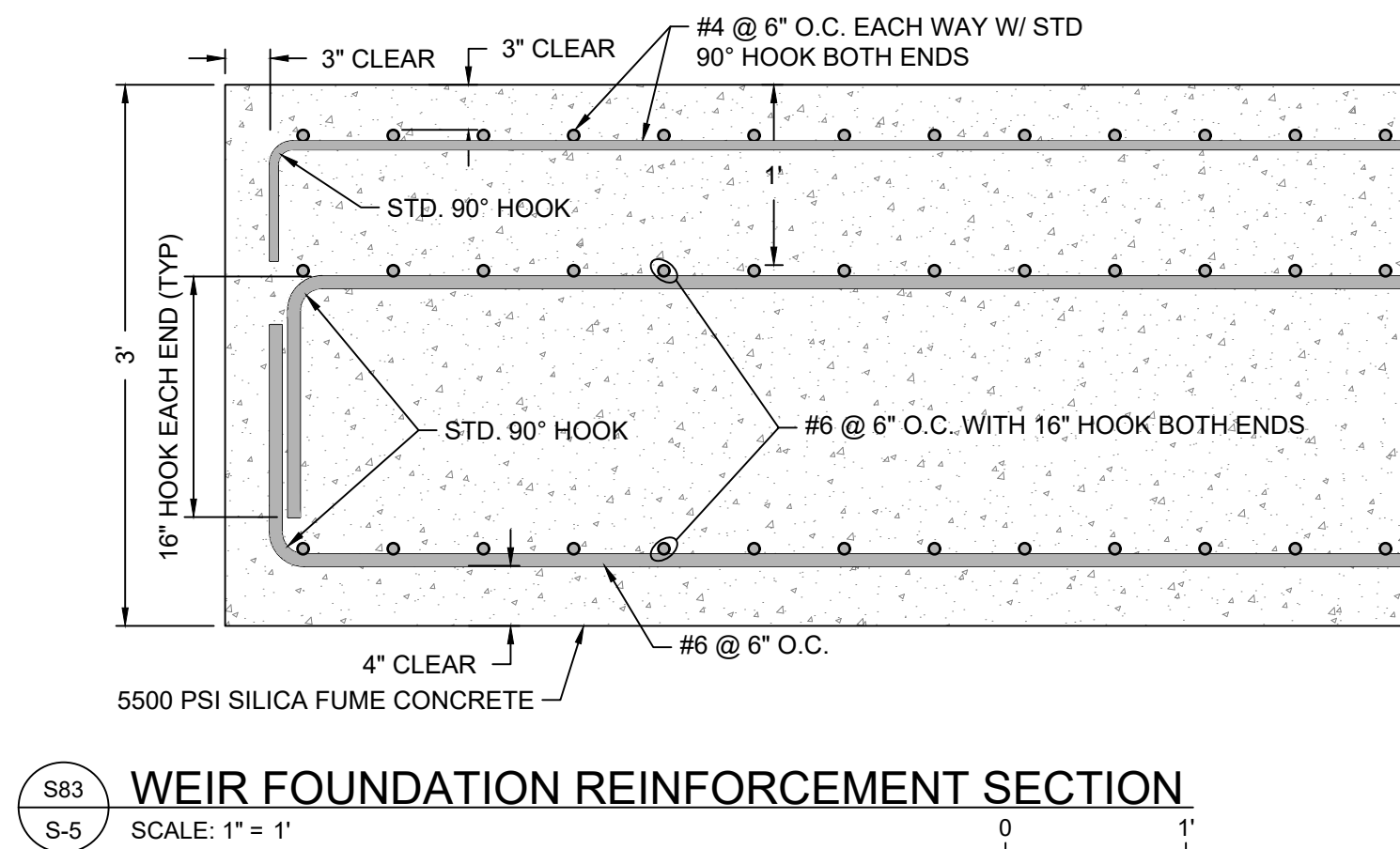
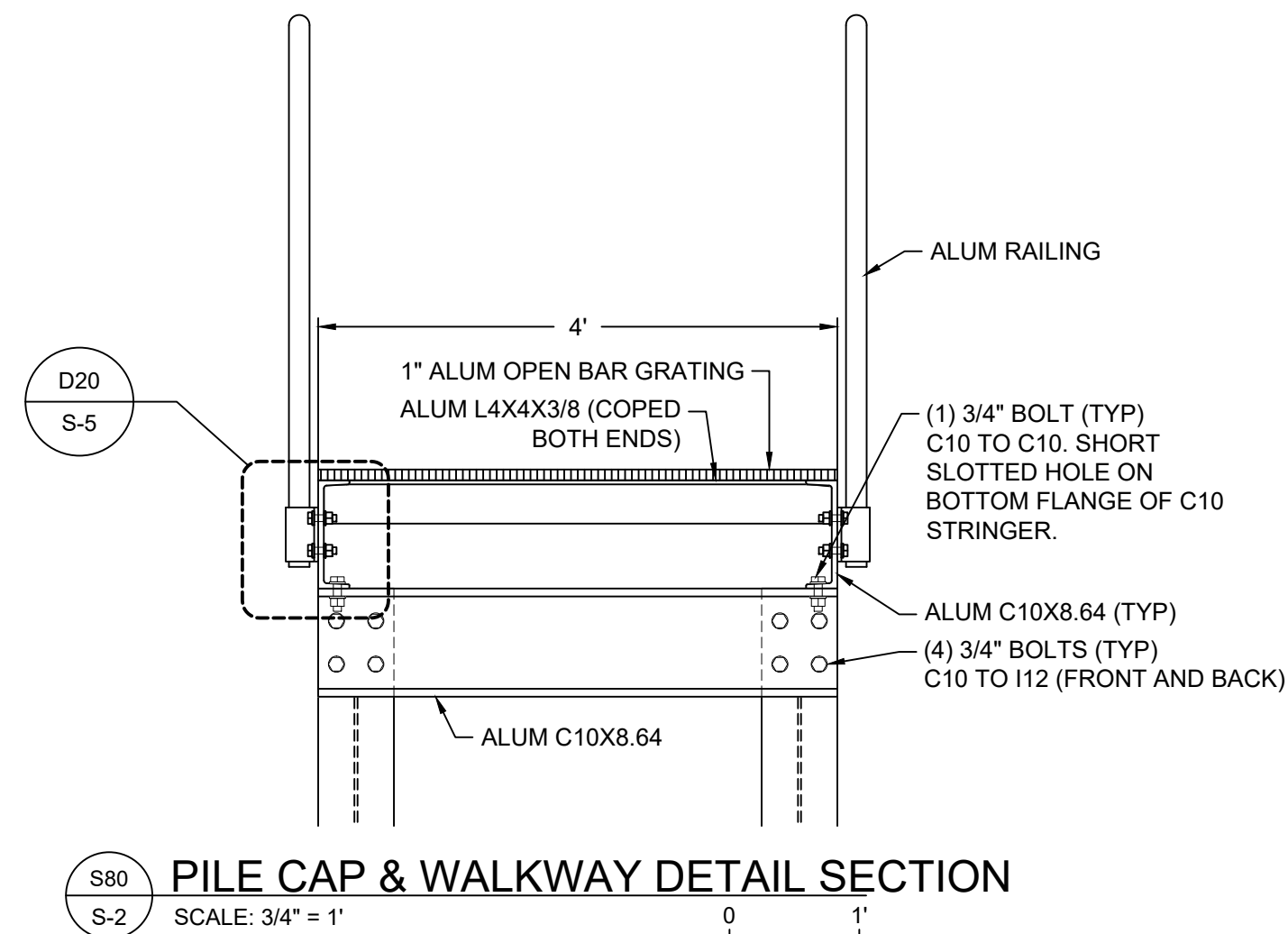
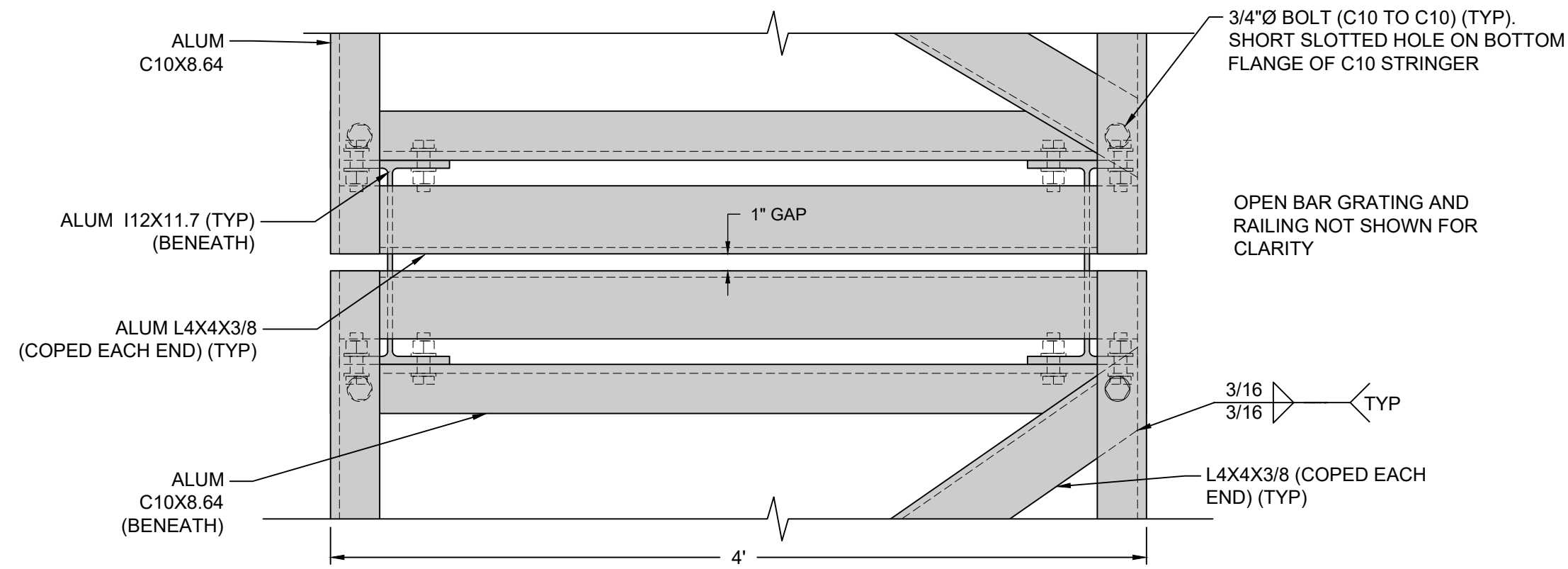
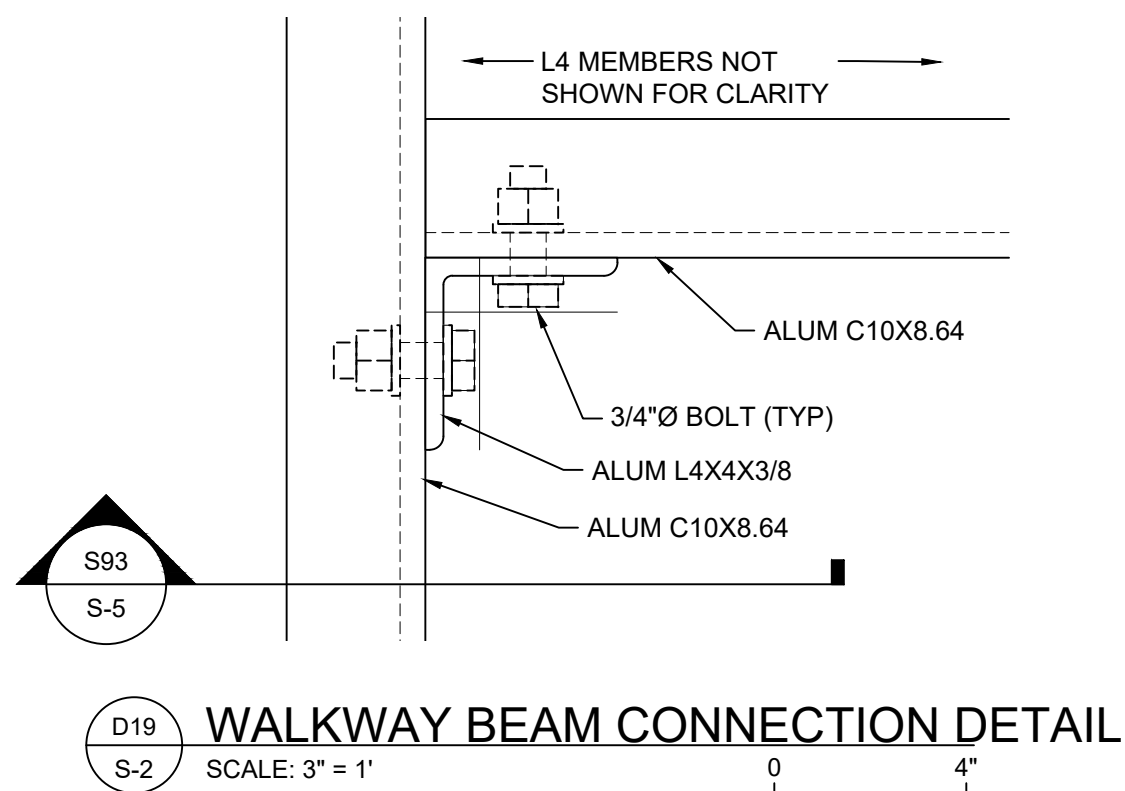
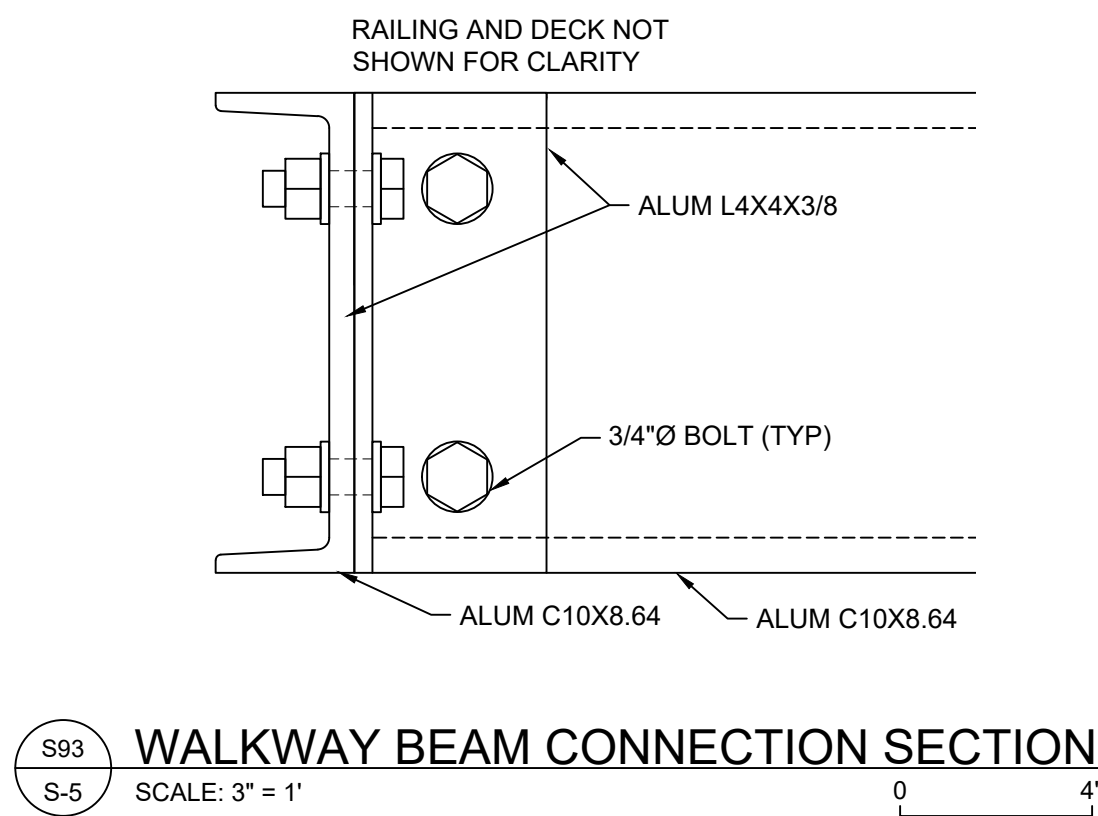
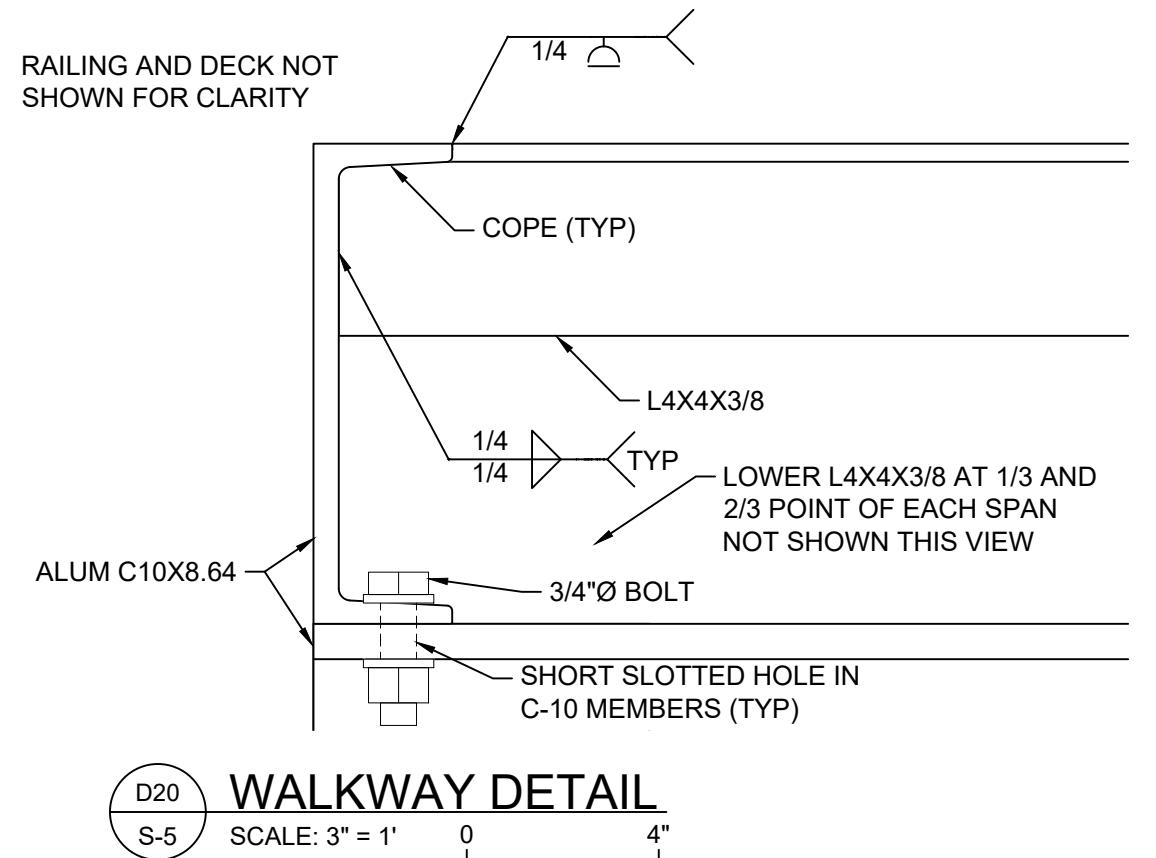
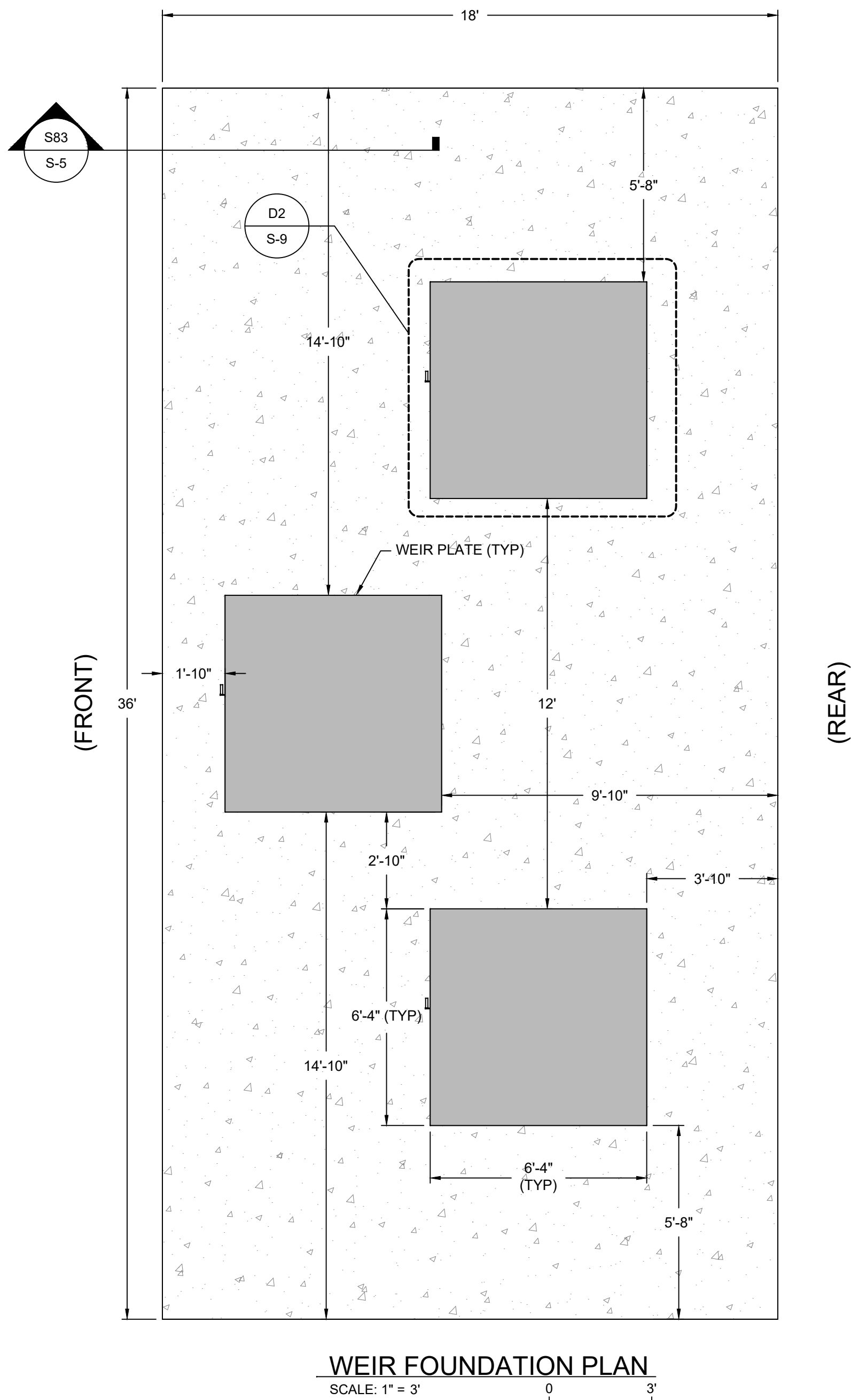
SHEET TITLE
ALUMINUM
WALKWAY FRAMING
PLAN AND DETAILS

S-3
SHEET 25 OF 34

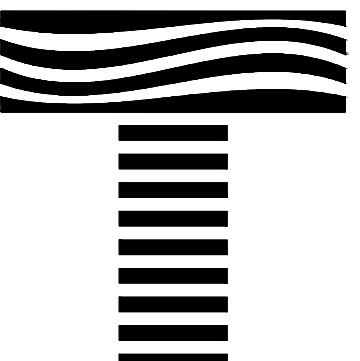


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- NOTES:
- WHERE SHORT SLOTTED HOLES ARE REQUIRED, BOLTS SHALL BE FINGER-TIGHT ONLY
 - SHORT SLOTTED HOLES SHALL HAVE A STANDARD NUT AND A JAM NUT TO KEEP THE FINGER-TIGHT CONNECTION FROM BACKING OFF
 - PLACE 2"X2"X3/16" THICK AASHTO-GRADE NEOPRENE BEARING PAD BETWEEN CONNECTING MEMBERS WHERE SHORT SLOTTED HOLES ARE REQUIRED
 - SET BOLT CENTER AT CENTER OF SHORT SLOTTED HOLES
 - LENGTH OF SHORT SLOTTED HOLES SHALL BE 1" U.N.O.



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PROJECT TITLE

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BV-4B
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NO	REVISIONS / SUBMISSIONS	DATE

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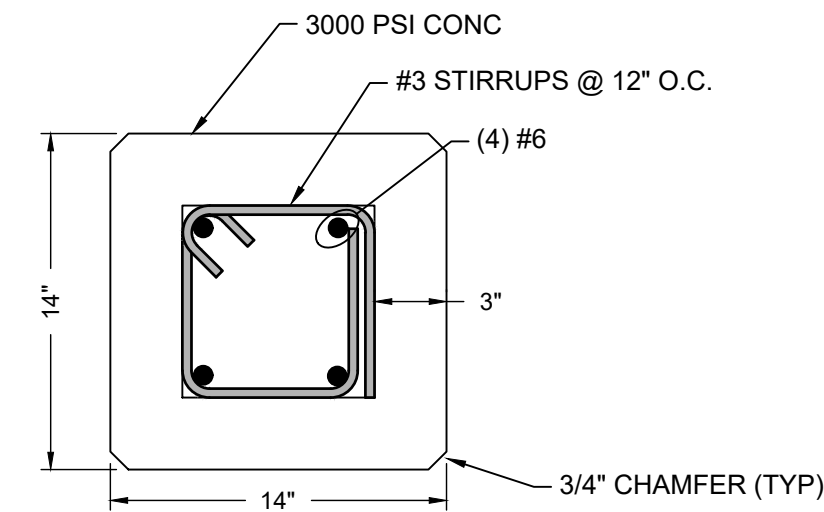
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SHEET TITLE

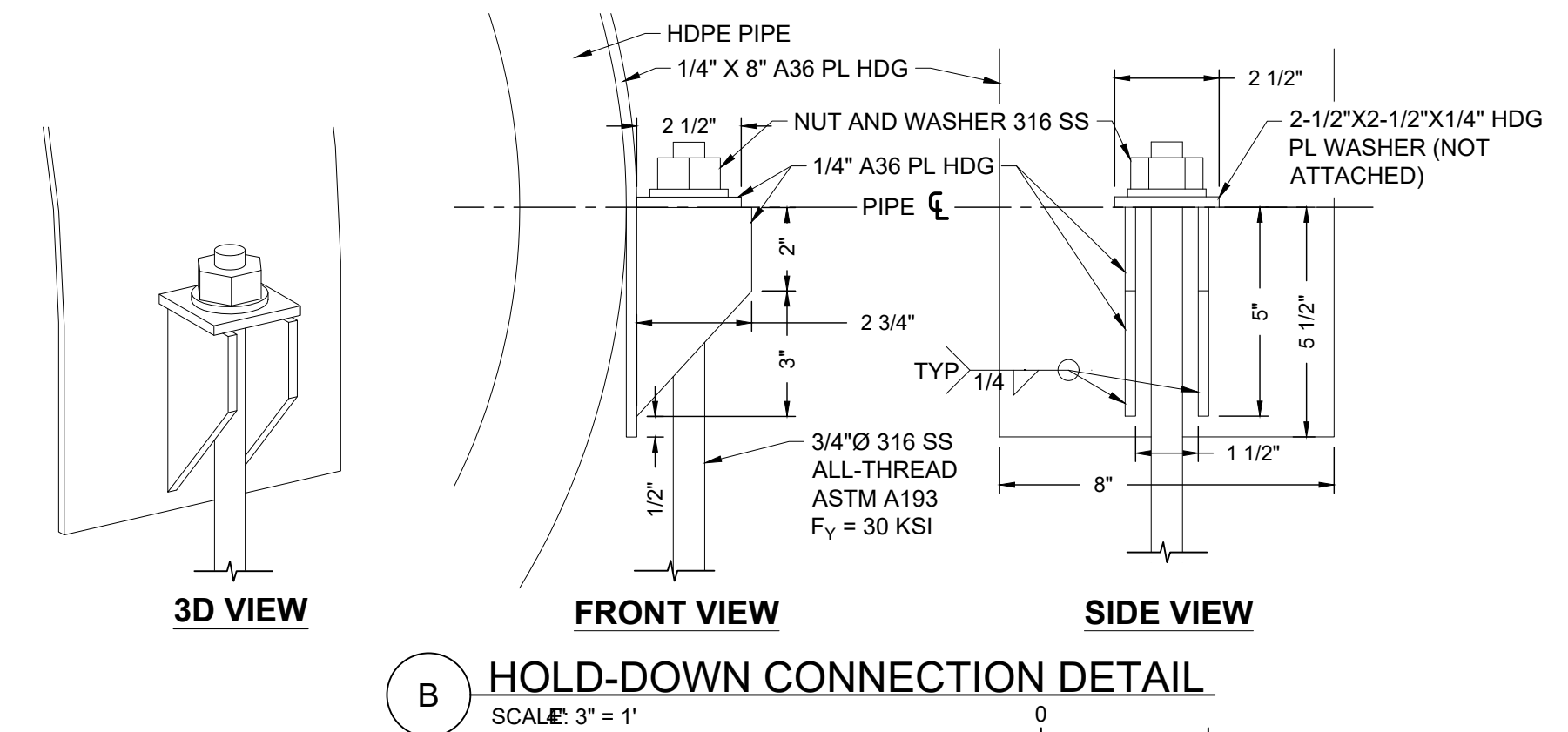
ALUMINUM
WALKWAY AND
FOUNDATION
DETAILS

S-5

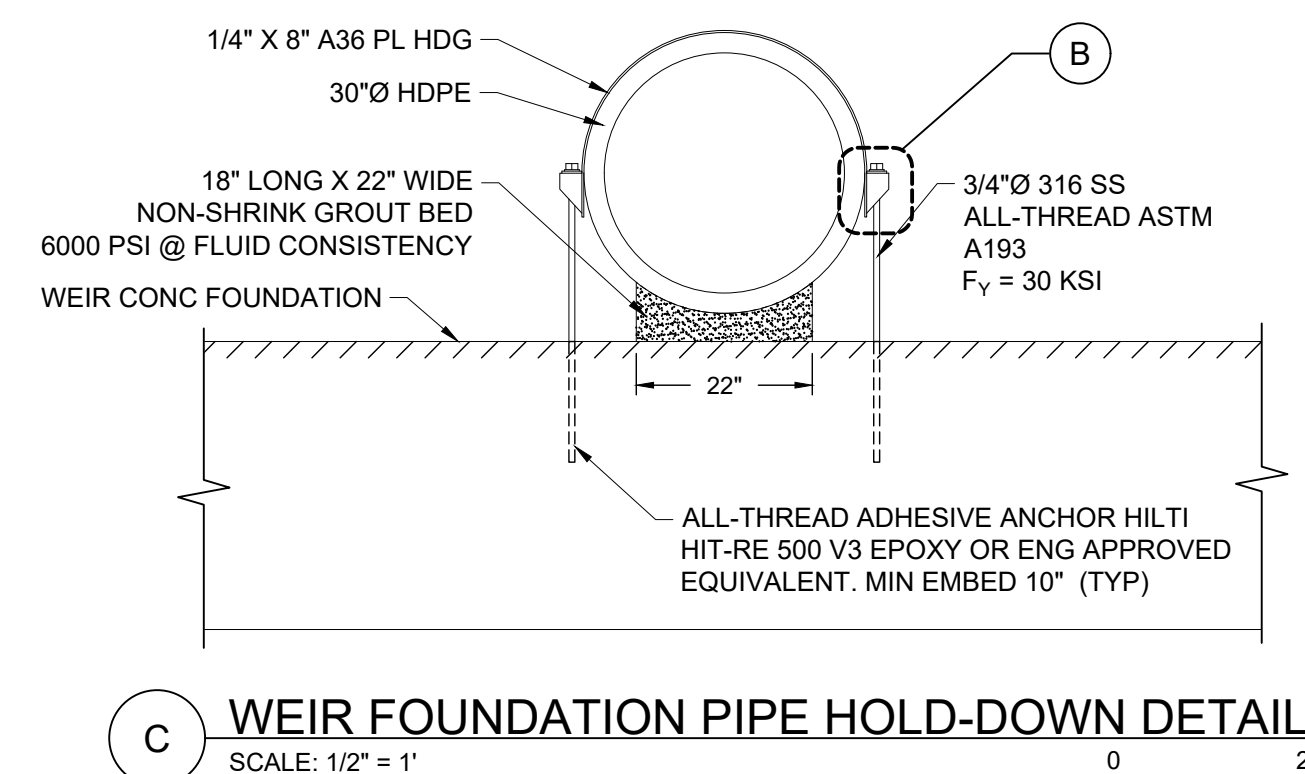
SHEET 27 OF 34



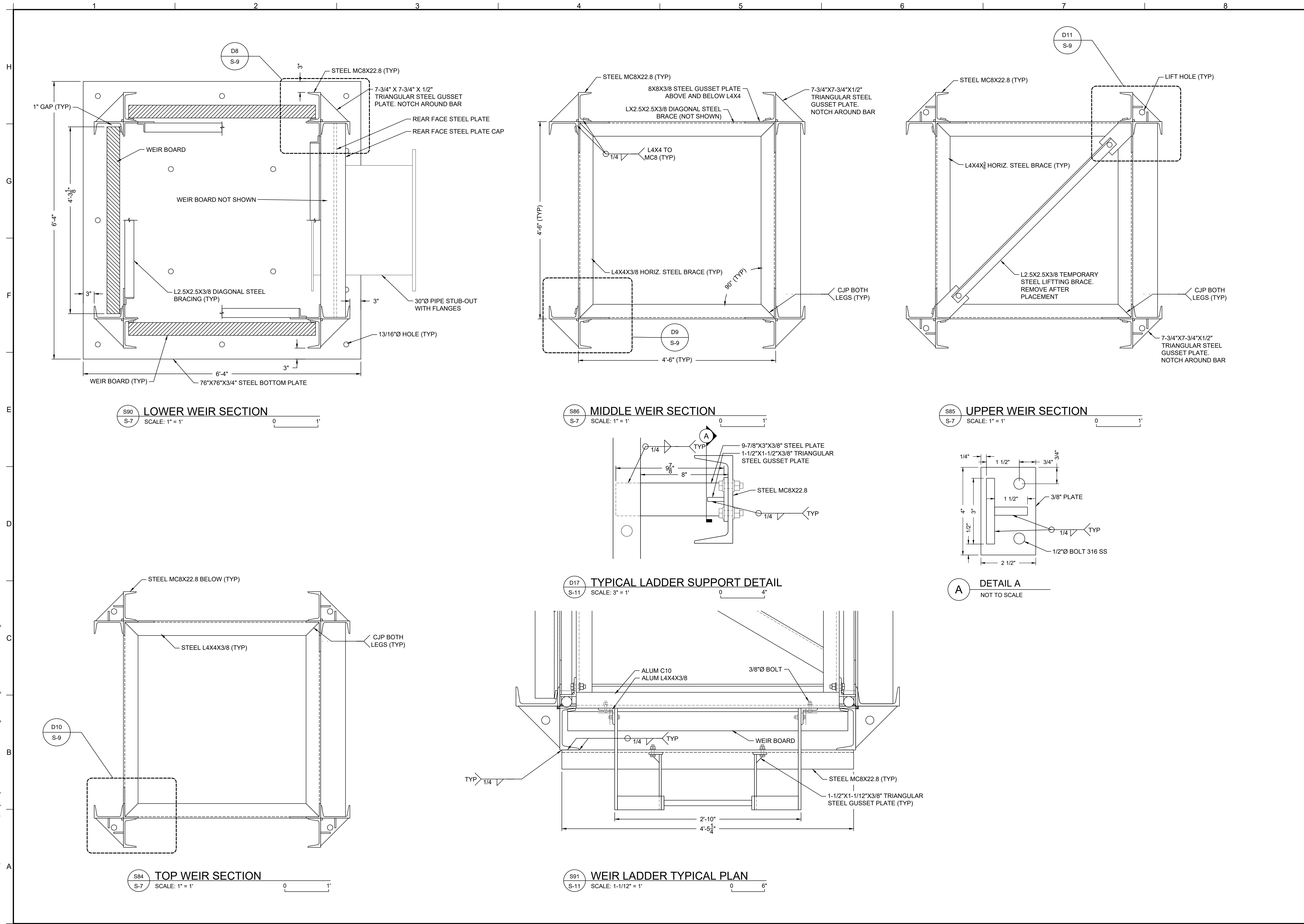
14-IN CONC BEAM DETAIL
NOT TO SCALE



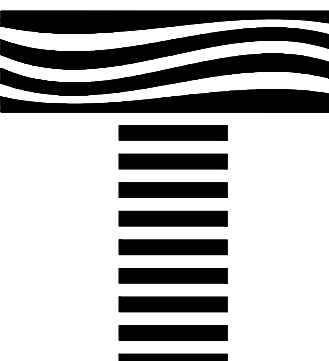
C WEIR FOUNDATION PIPE HOLD-DOWN DETAIL
SCALE: 1/2" = 1' 0 2'



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BREVARD COUNTY, FLORIDA

NO	ZONE	REVISIONS / SUBMISSIONS	DATE

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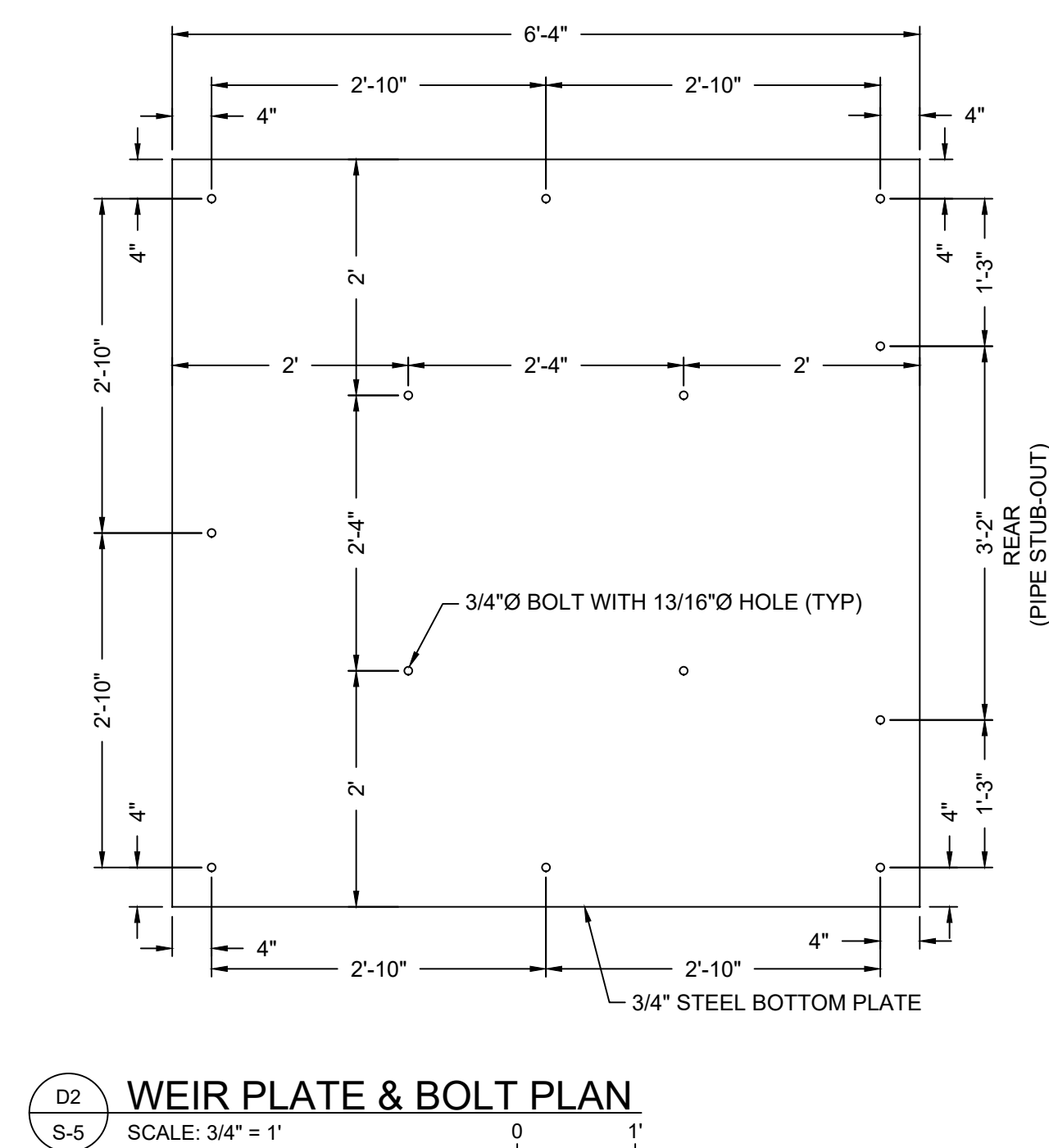
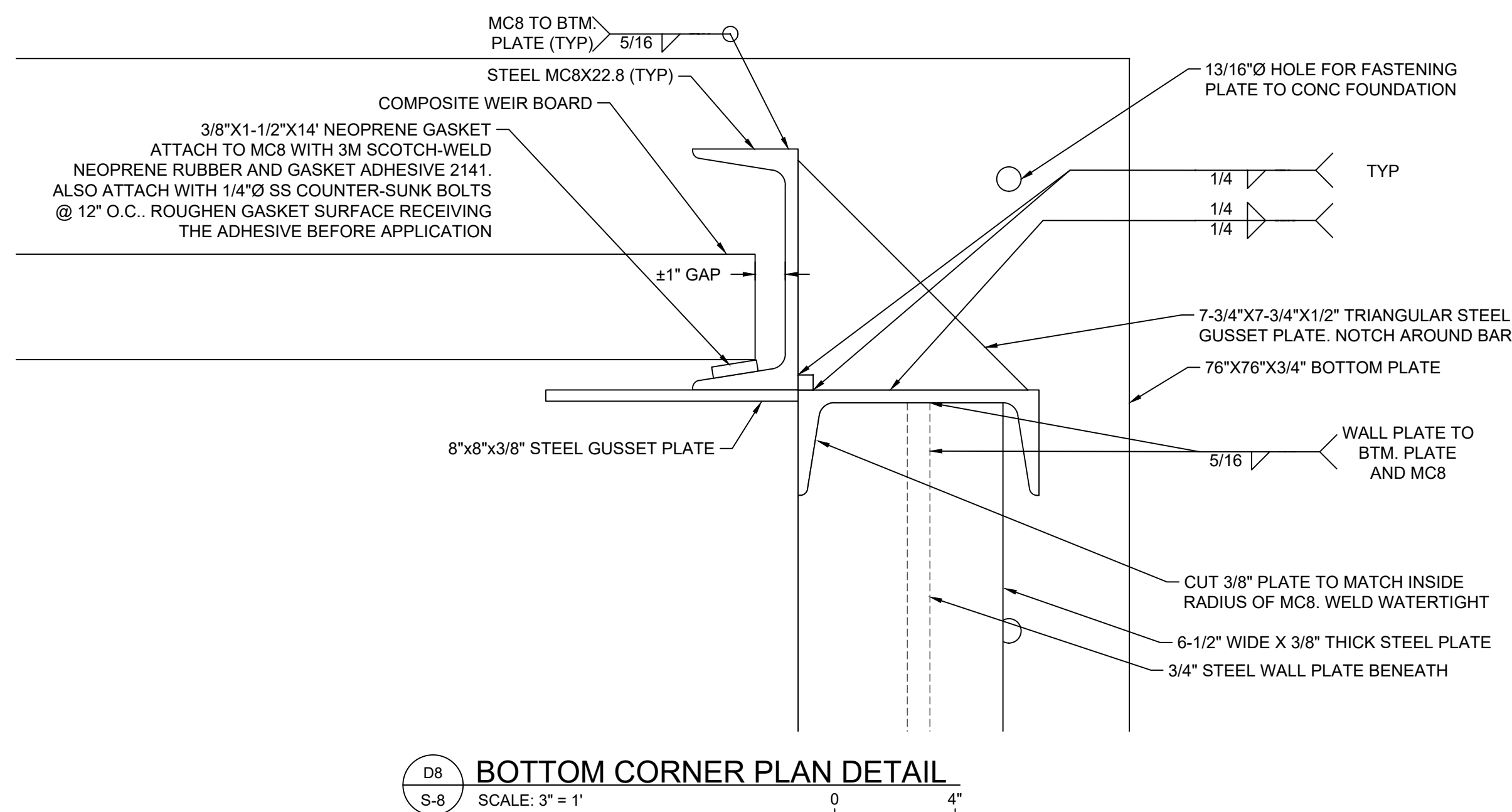
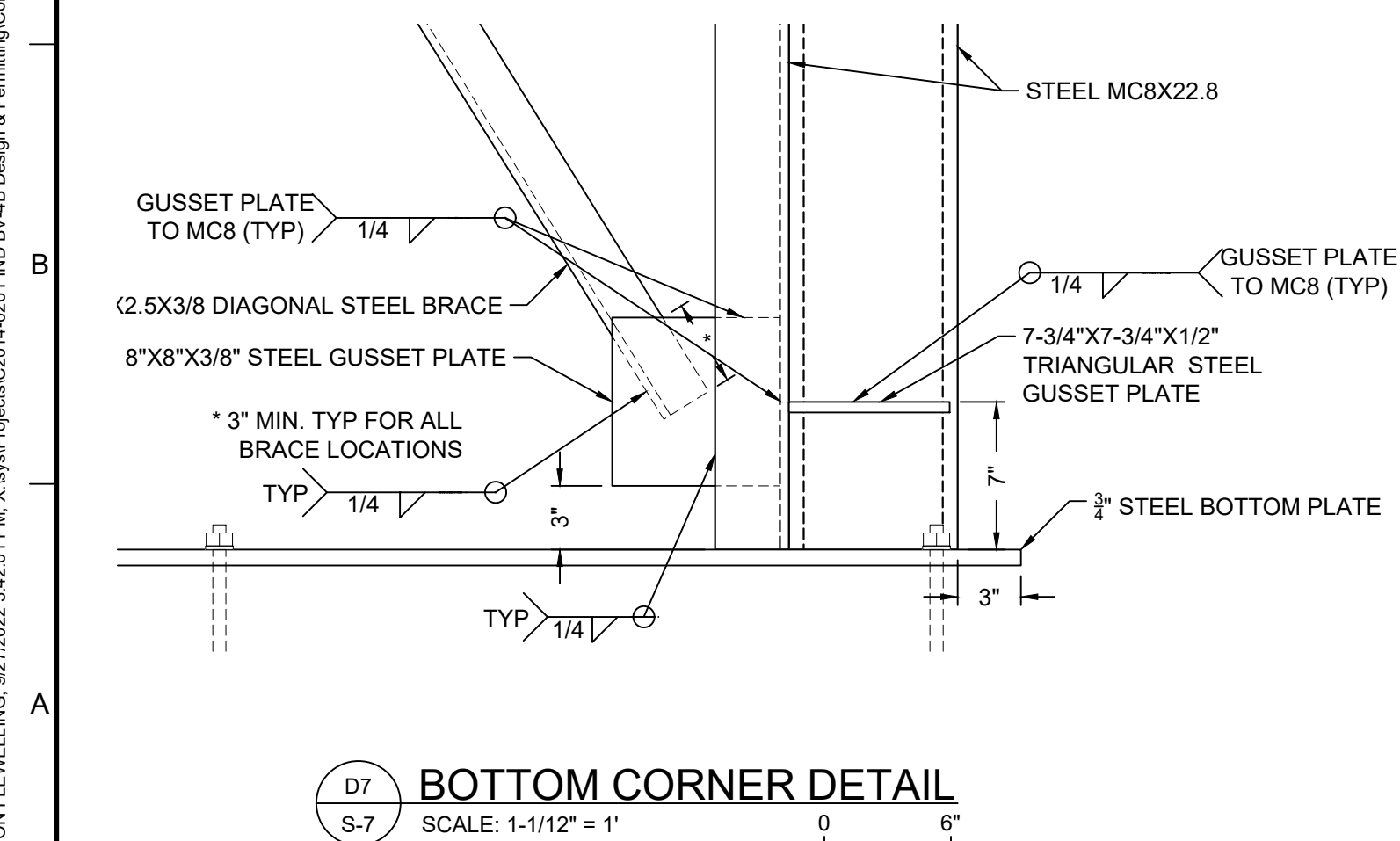
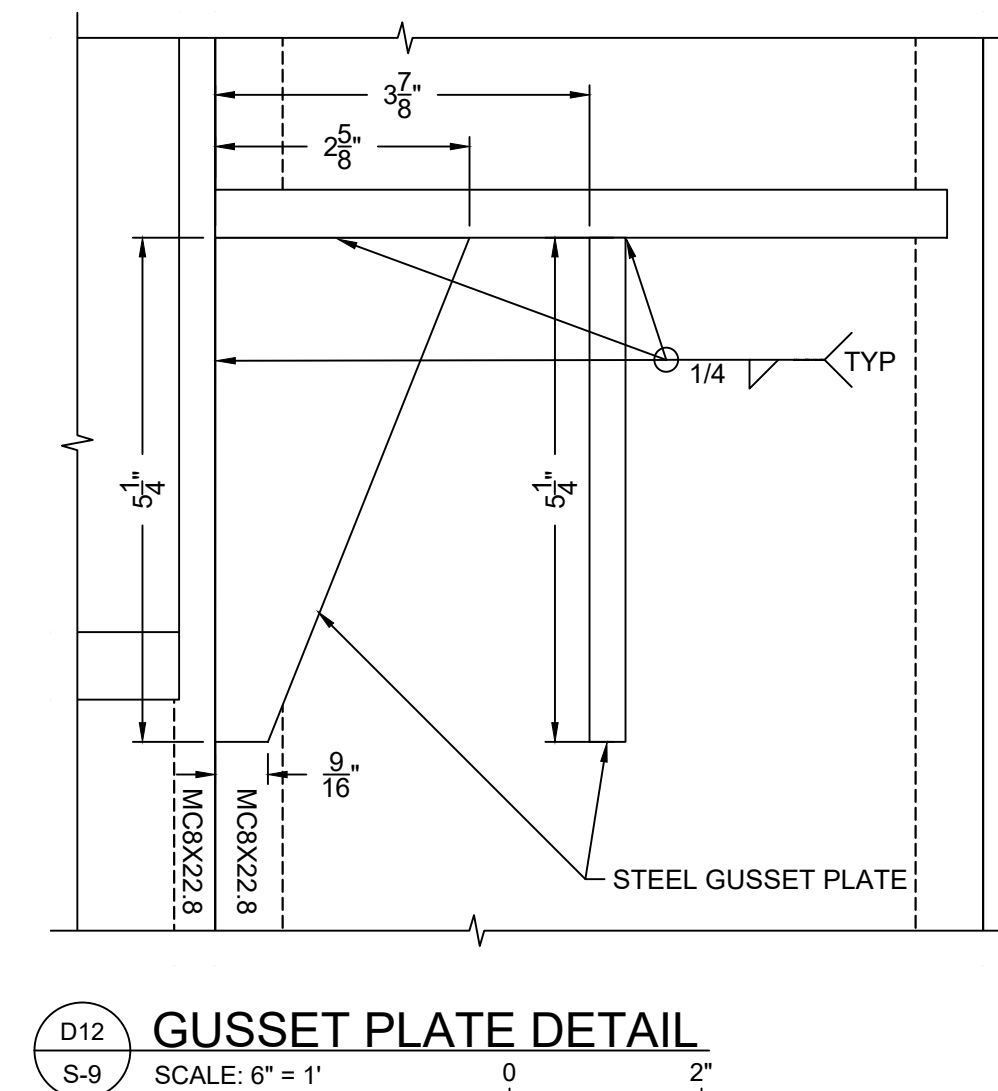
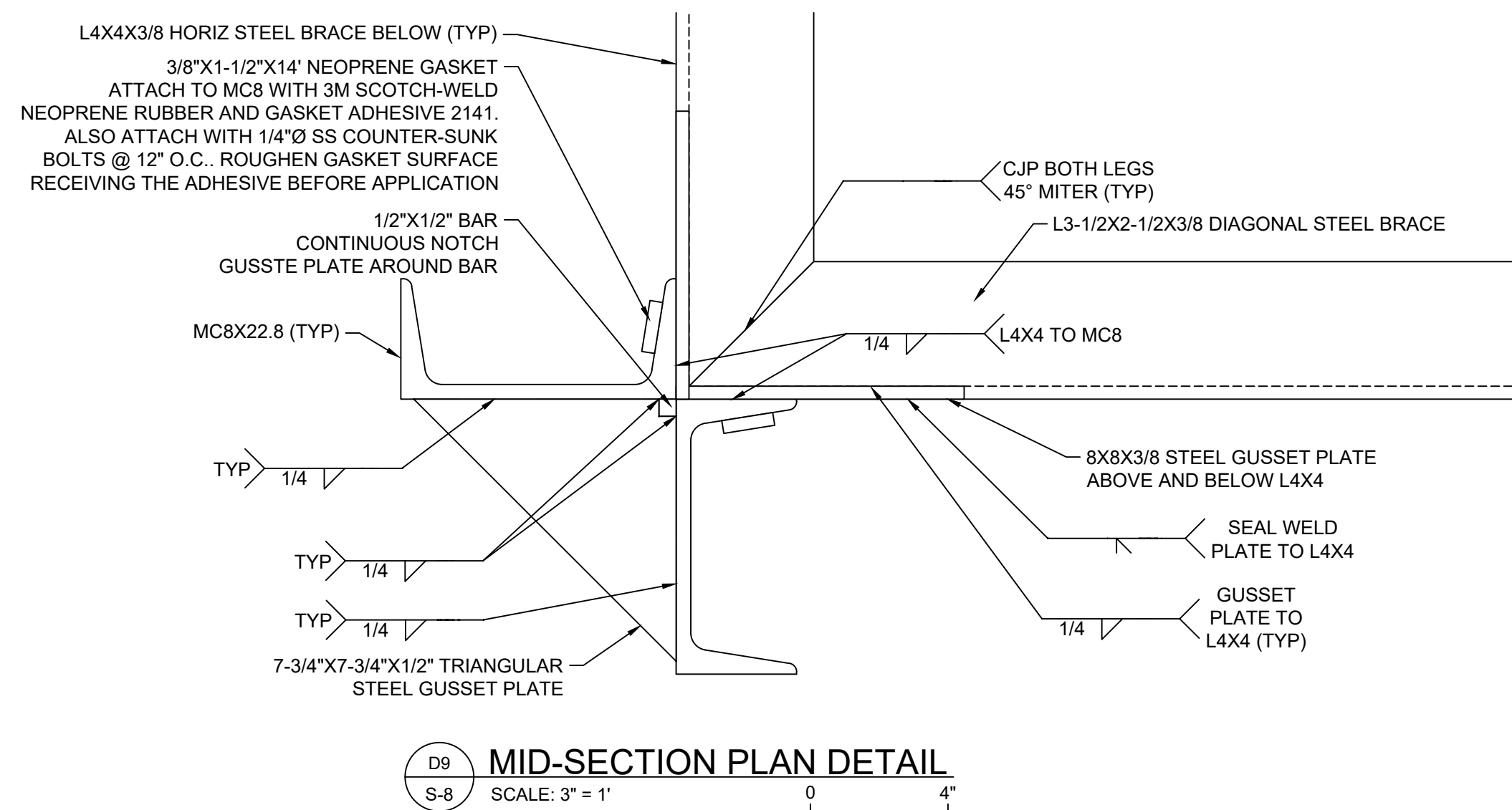
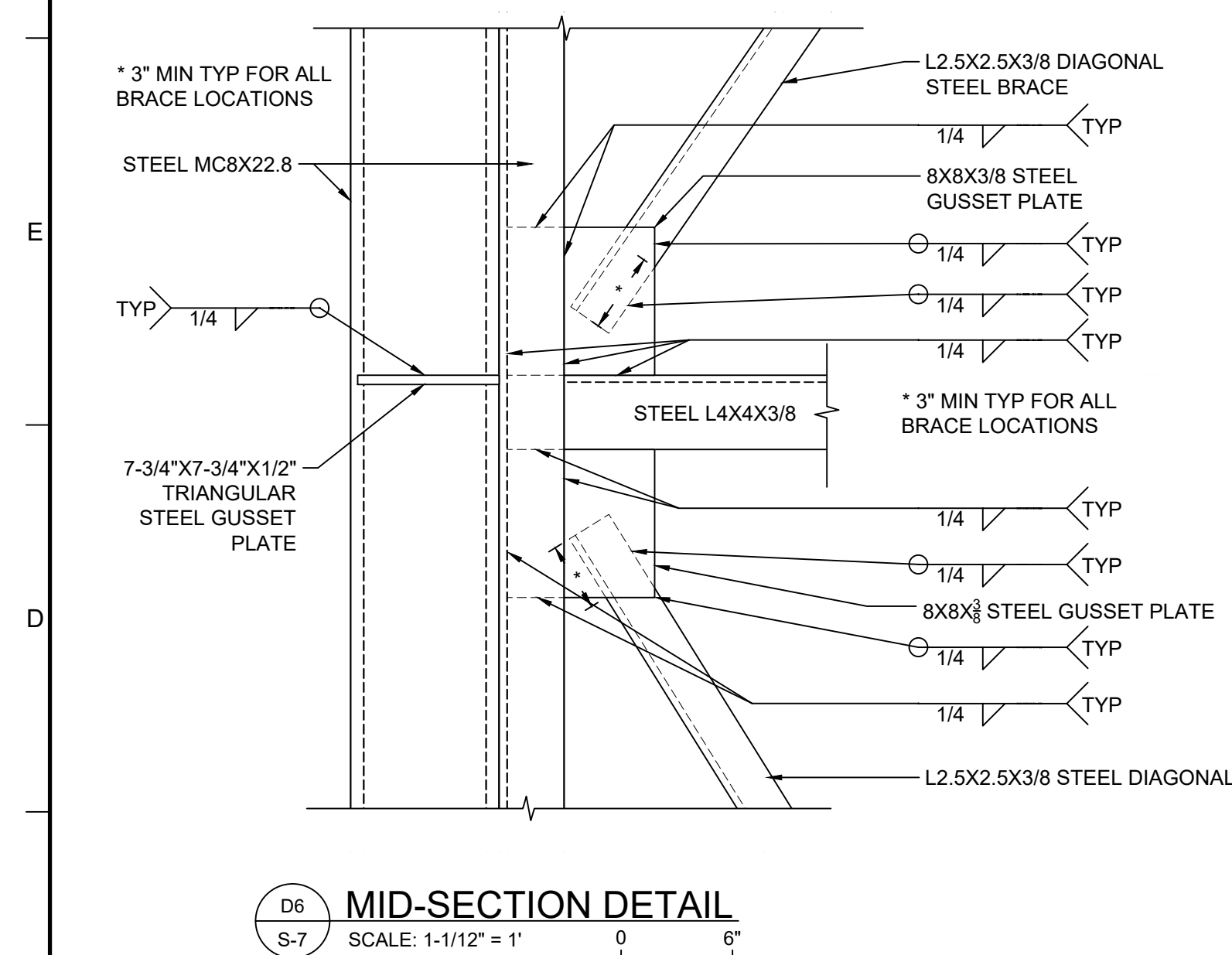
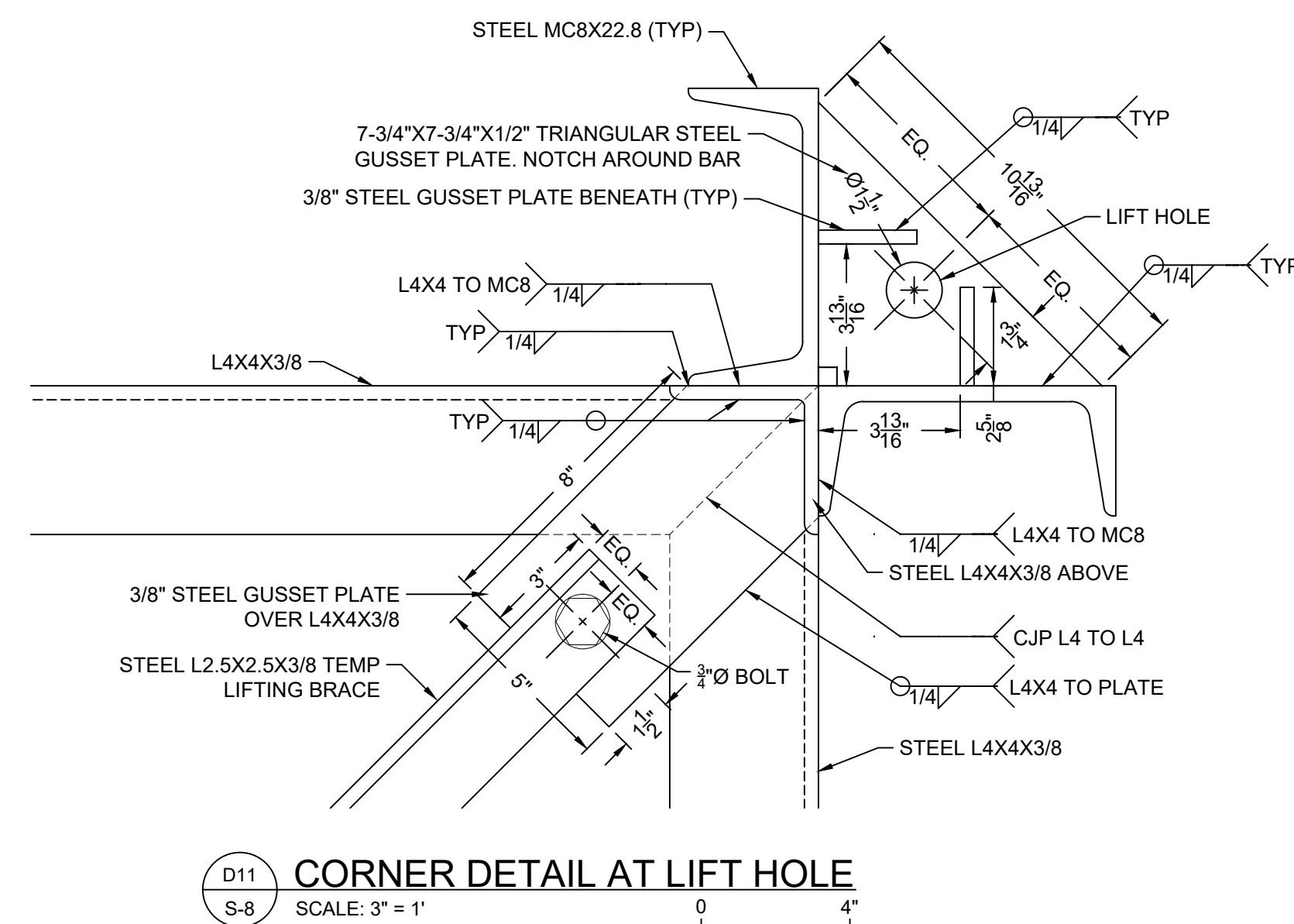
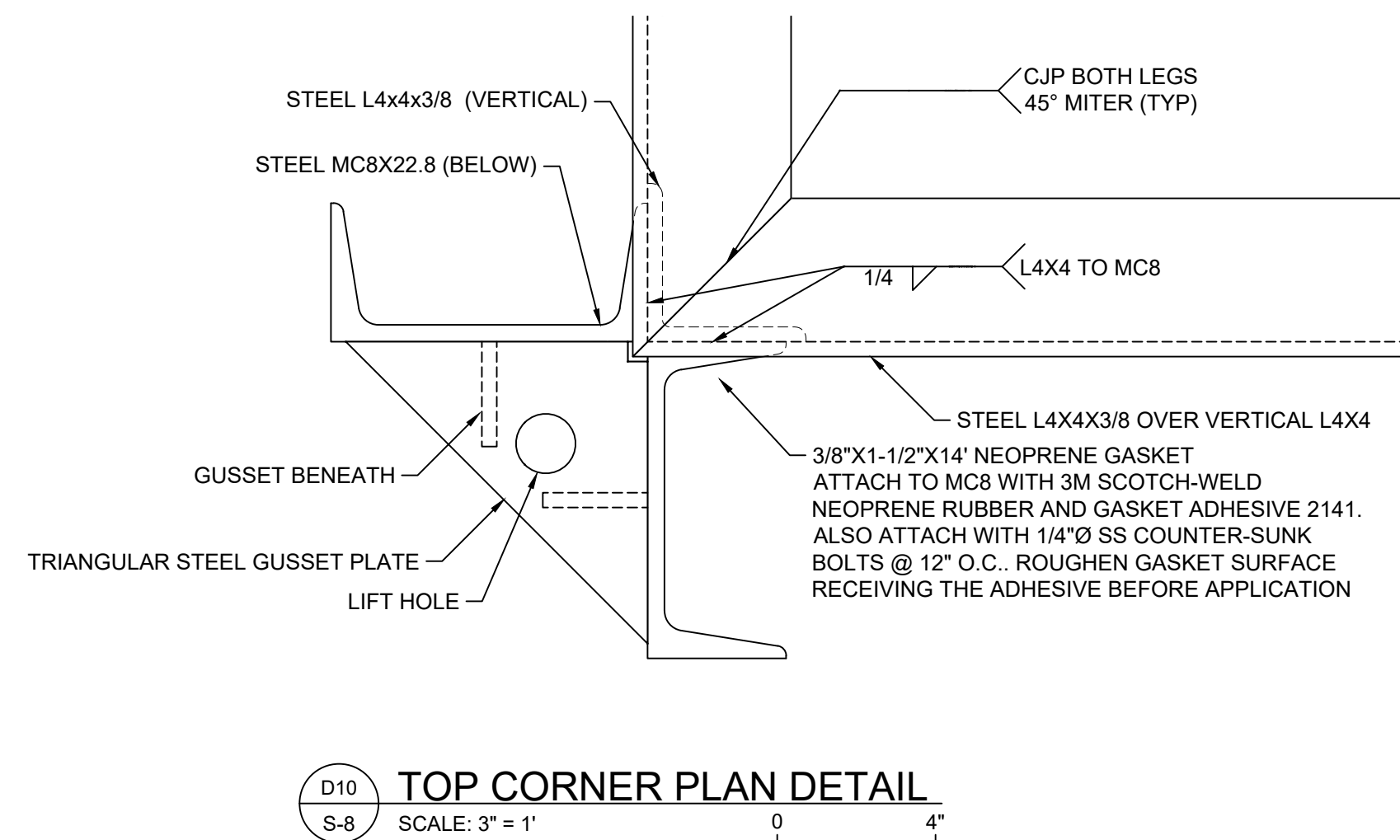
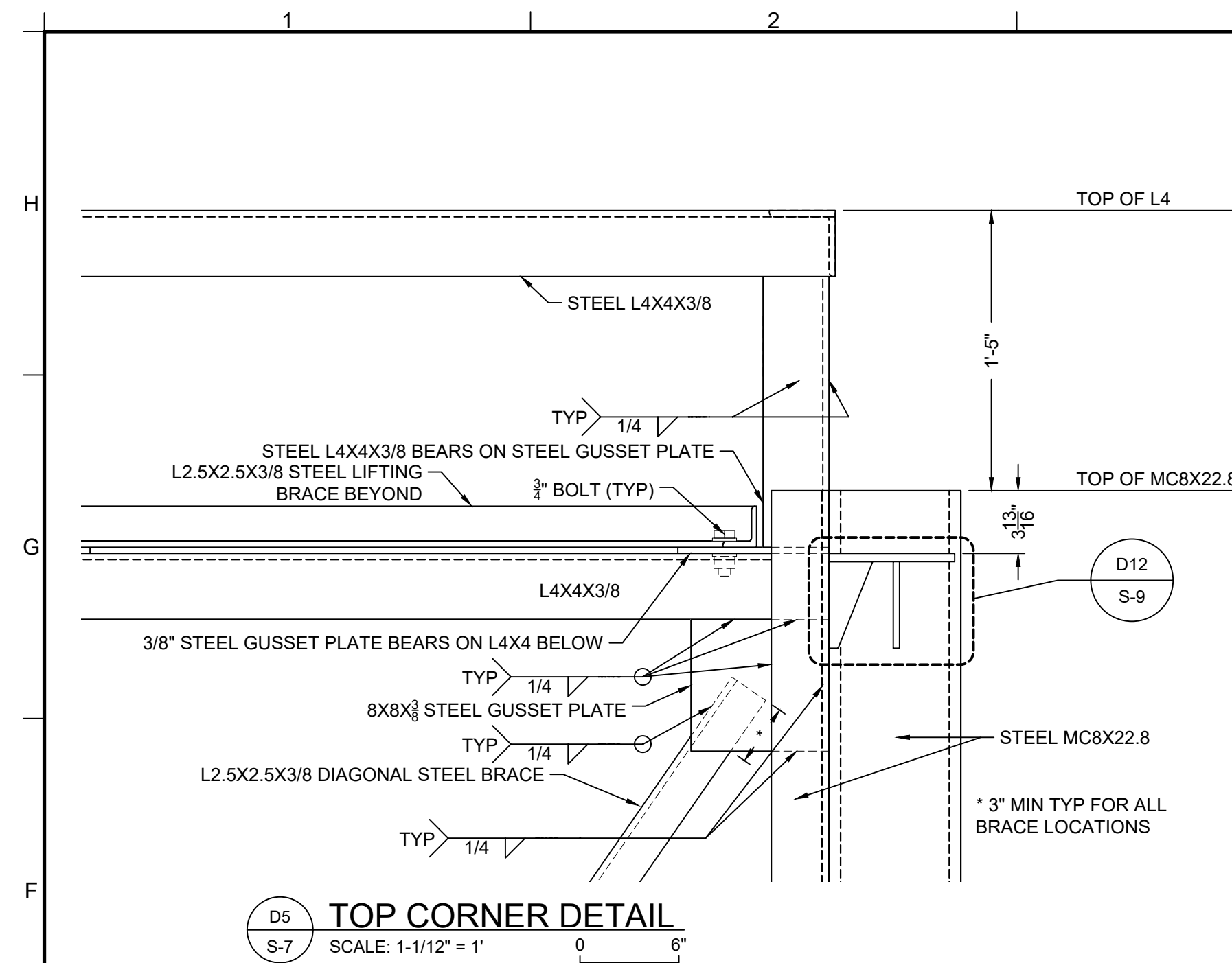
PROJECT NO	C2014-026-03
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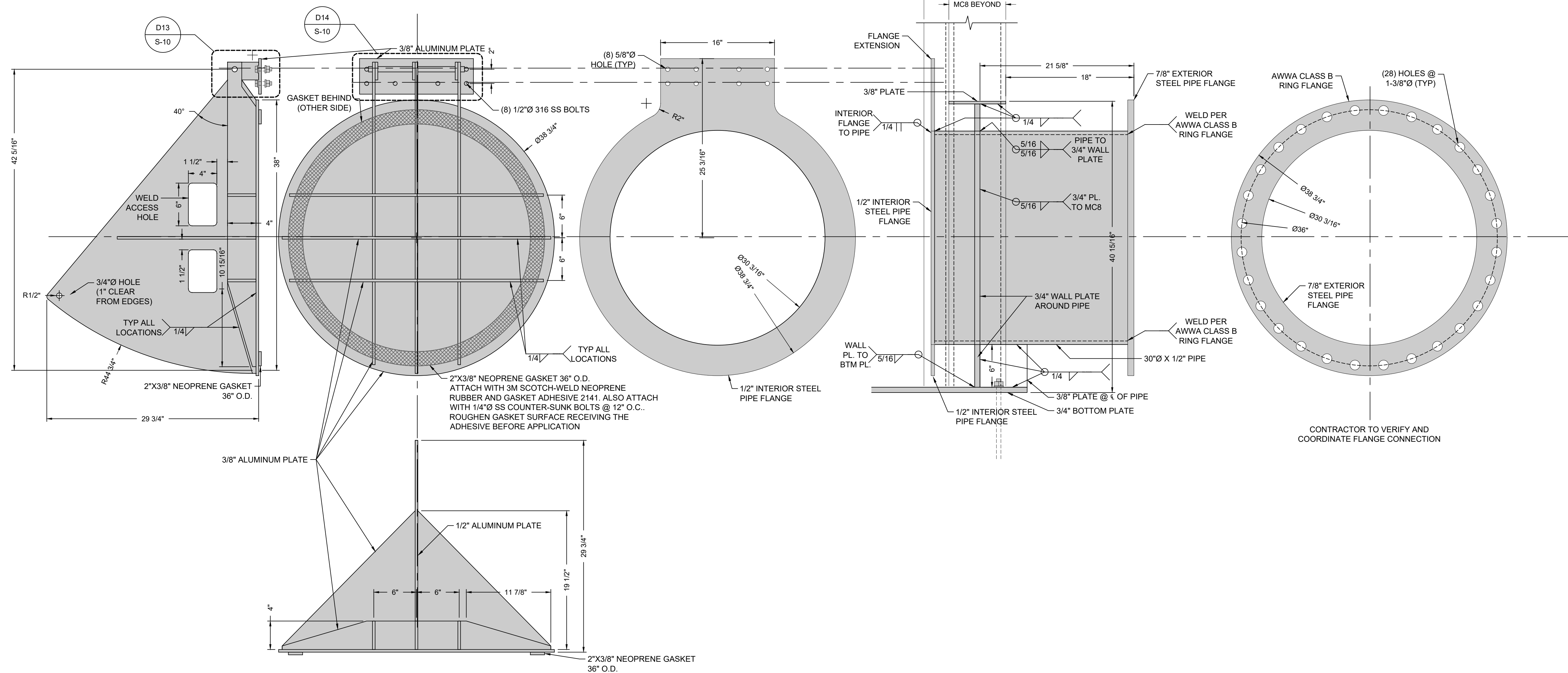
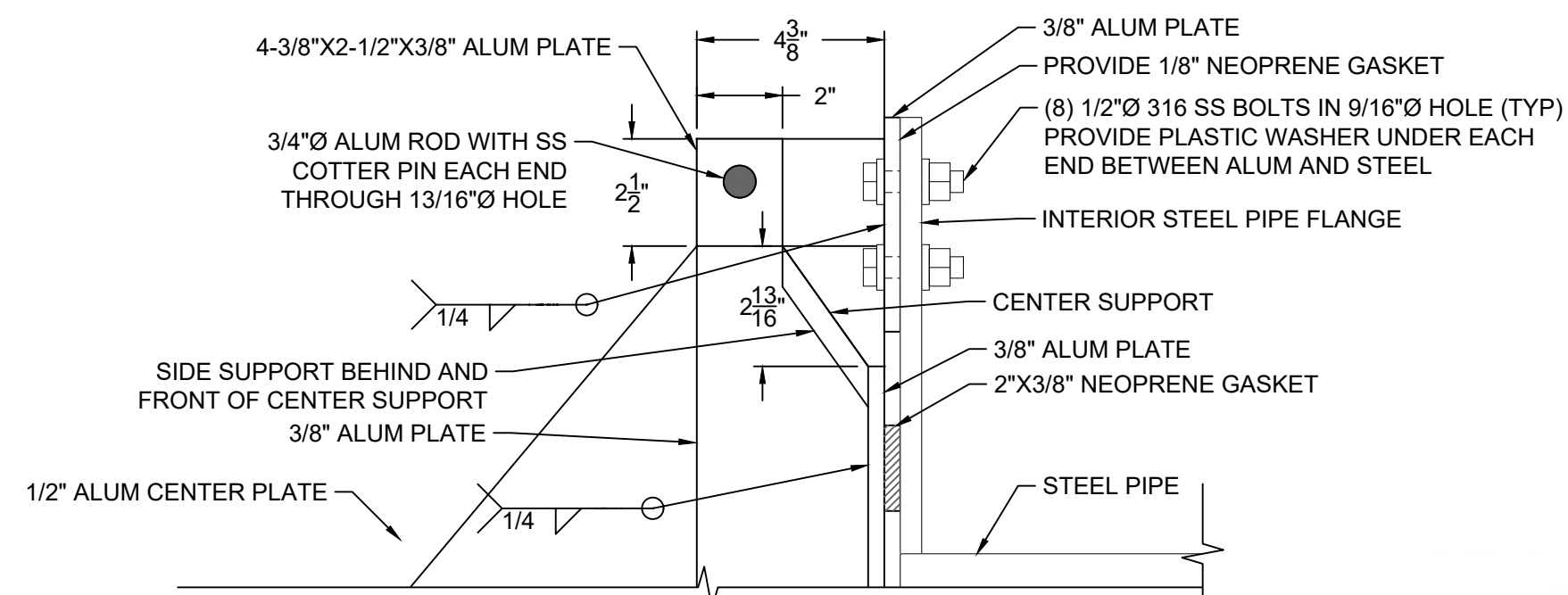
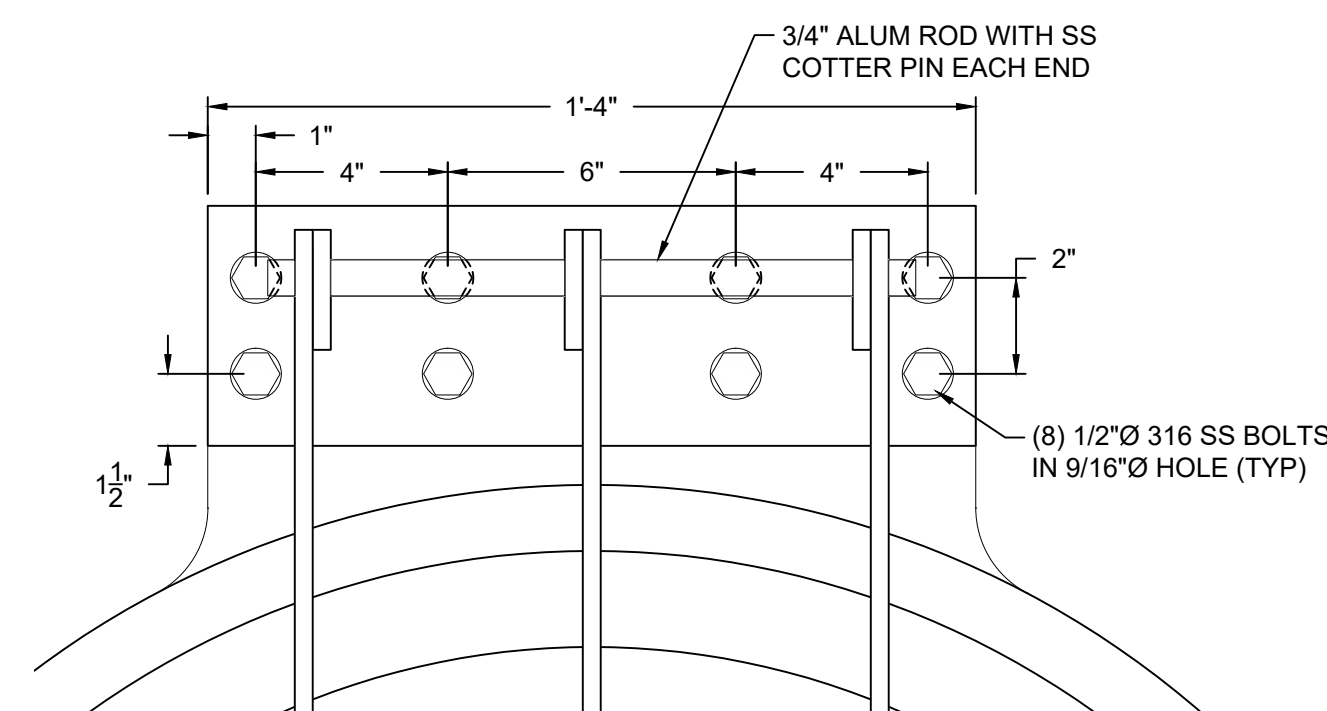
SHEET TITLE

STEEL WEIR
DETAILS

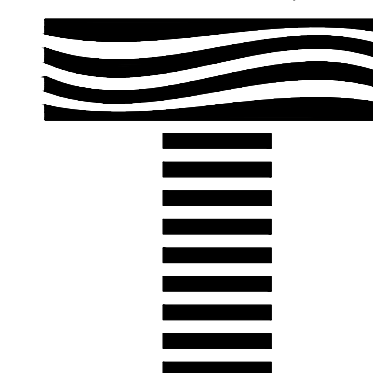
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SHEET 30 OF 34





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SHEET TITLE

STEEL WEIR AND ALUMINUM FLAP GATE DETAILS

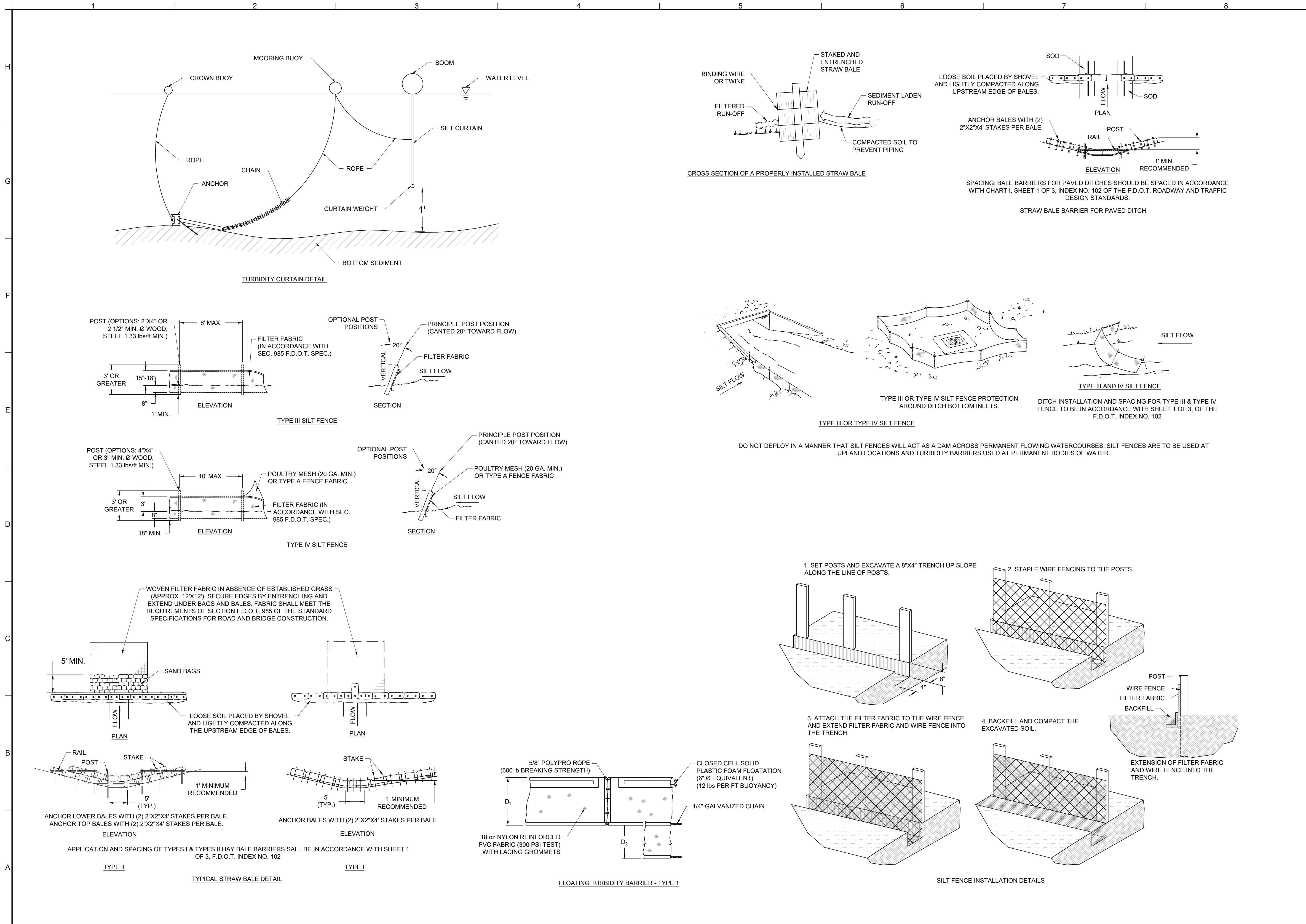
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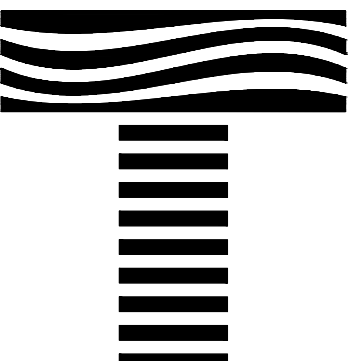
NOTE: SEE PLAN VIEW FOR LADDER LOCATIONS



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SHEET TITLE

TYPICAL EROSION
CONTROL DETAILS

ER-1

SHEET 34 OF 34