

CONSTRUCTION PLANS FOR: CHOCTAW BEACH FIRE STATION

PREPARED FOR: BOARD OF COUNTY COMMISSIONERS WALTON COUNTY, FLORIDA

PROJECT NUMBER - 50144269

JULY 2023

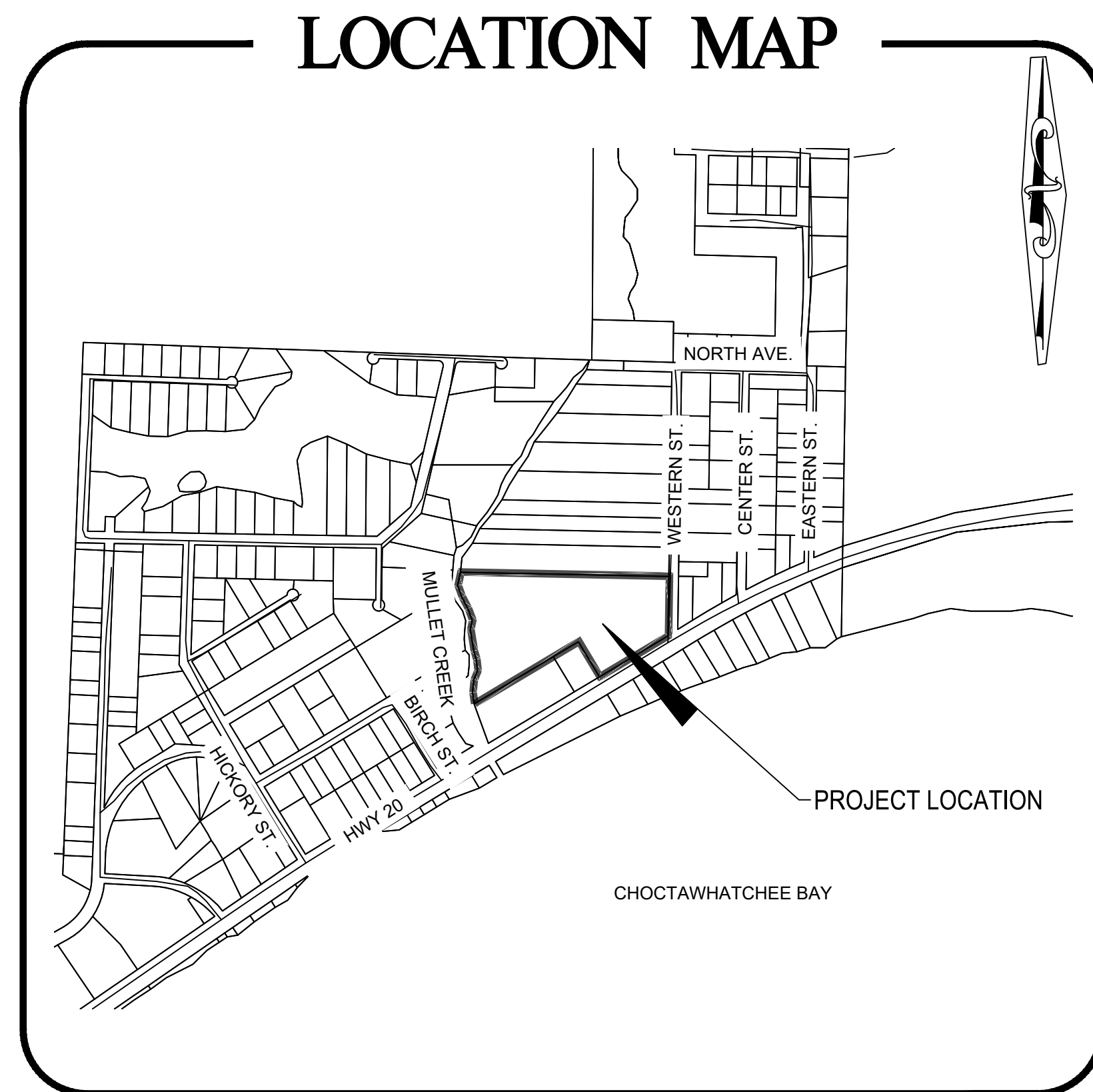
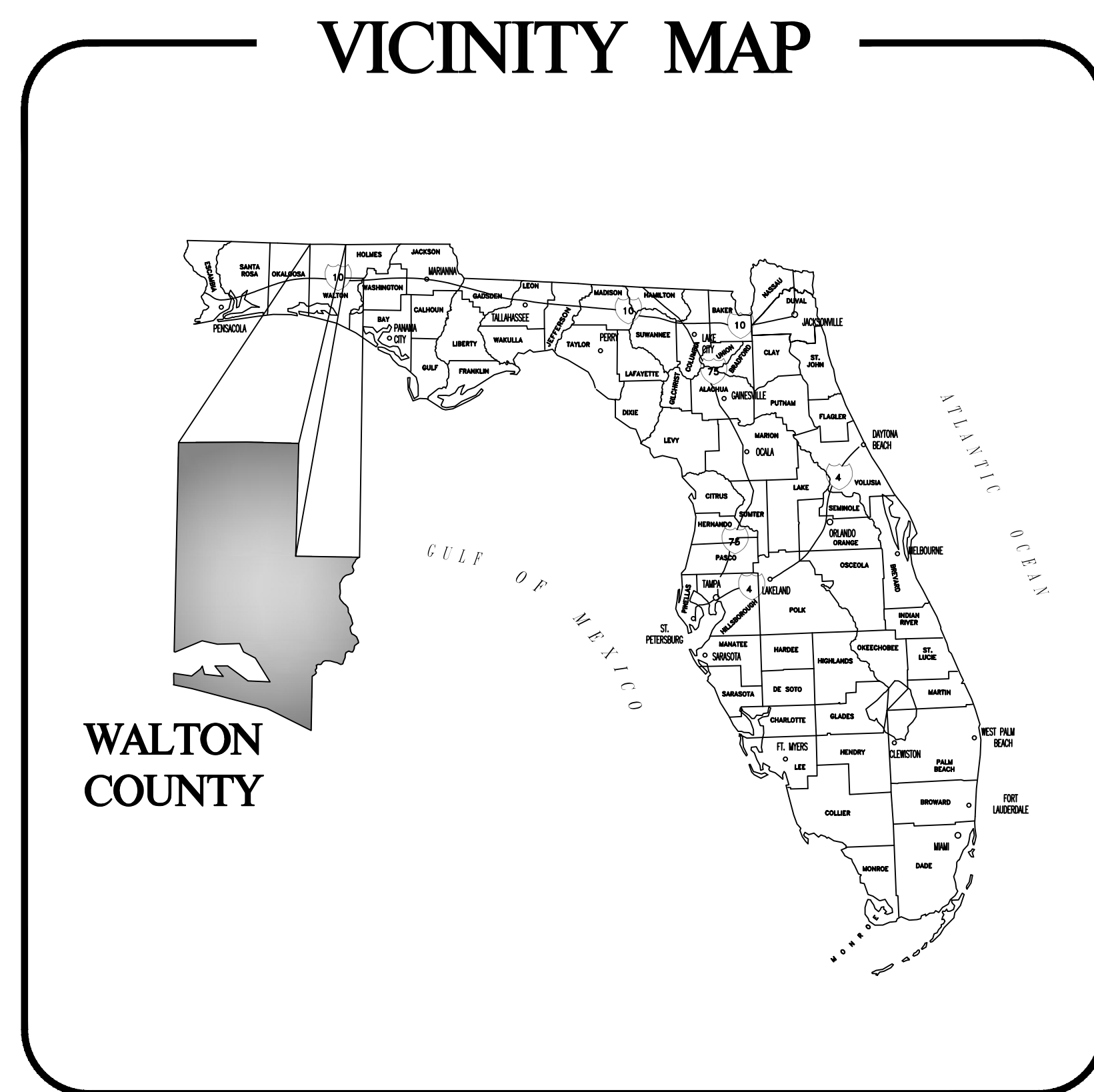
UTILITY PROVIDERS:			
WATER CITY OF FREEPORT 112 HWY 20 WEST FREEPORT, FL PH: (850) 835-4544 SEWER PH: (850) 880-6553 WATER	ELECTRIC CHELCO DERRICK MARSHALL 112 HWY 20 WEST FORT WALTON BEACH, FL PH: (850) 307-1199	TELEPHONE MCI / VERIZON 1490 E. NINE MILE RD. PENSACOLA, FL PH: (850) 475-7465	SUNSHINE STATE ON-CALL 605 WEST GARDEN STREET ORLANDO, FL 3280 PH: (800) 432-4770
NATURAL GAS OKALOOSA GAS DISTRICT MR. GLENN BAILEY 20 HUGHES ST. NE FORT WALTON BEACH FL. PH: (850) 729-4700	CABLE UNITI FIBER 3542 ORANGE AVE. TALLAHASSEE, FL PH: (850) 544-1400	CENTURYLINK 650 DENTON BLVD. FORT WALTON BEACH, FL PH: (850) 664-3608	

GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2020-21 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IR'S)

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IR'S ARE AVAILABLE AT THE FOLLOWING WEBSITE: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2021

ANTICIPATED START DATE - APRIL 2023								
	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8
STATE/FEDERAL PERMITS APPROVED	█							
INSTALL INITIAL STAGE EROSION CONTROL MEASURES	█							
DEMOLITION / CLEARING AND GRUBBING		█						
CONSTRUCT STORM SEWER				█				
CONSTRUCT UTILITIES				█	█			
SITE CONSTRUCTION				█	█	█		
BUILDING CONSTRUCTION				█	█	█		
ESTABLISH PERMANENT LANDSCAPING							█	
PERMANENT VEGETATION IS ESTABLISHED							█	█
AS-BUILT CERTIFICATION								█



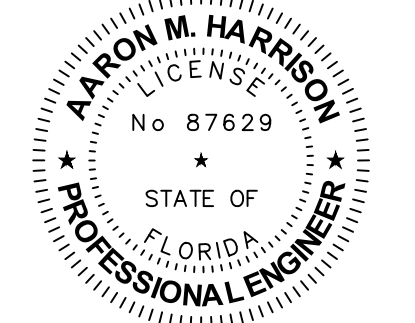
DRAWING LIST	
Sheet Number	Sheet Title
COV	COVER
C1.1	GENERAL NOTES
C1.2	TYPICAL SECTIONS
C3.1	SEDIMENT AND EROSION CONTROL PLAN
C3.2	STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
C3.3	STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
C4.1	EXISTING CONDITIONS
C4.2	EXISTING CONDITIONS AND DEMOLITION PLAN
C5.1	OVERALL SITE PLAN
C5.2	SITE PLAN
C6.1	UTILITY PLAN
C6.2	WATER DISTRIBUTION DETAILS
C6.3	WATER DISTRIBUTION DETAILS
C7.1	GRADING AND DRAINAGE PLAN
C7.2	STORMWATER MANAGEMENT FACILITY SECTIONS
C8.1	ROADWAY PROFILES
C8.1	STORM SEWER PROFILES
C10.1	CONSTRUCTION DETAILS
C10.2	CONSTRUCTION DETAILS
C10.3	CONSTRUCTION DETAILS
C10.4	CONSTRUCTION DETAILS
C10.5	CONSTRUCTION DETAILS
C11.1	MAINTENANCE OF TRAFFIC
C11.2	MAINTENANCE OF TRAFFIC
L1.1	LANDSCAPE NOTES AND LEGEND
L1.2	LANDSCAPE PLAN



877 CR 393 North
Santa Rosa Beach, FL 32459
850.267.0759

CHOCTAW BEACH FIRE STATION
BOARD OF COUNTY COMMISSIONERS
WALTON COUNTY
FLORIDA

SEAL



AARON M. HARRISON, P.E. 87629
EB 0008794

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DATE _____ JULY 2023

TITLE
COVER

PROJECT NO. 50144269

COV

SHEET NO.

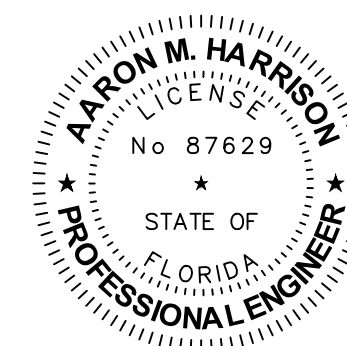


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CALL SUNSHINE ONE
1-800-432-4770
www.callsunshine.com

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**CHOCTAW BEACH FIRE STATION
BOARD OF COUNTY COMMISSIONERS
WALTON COUNTY
FLORIDA**

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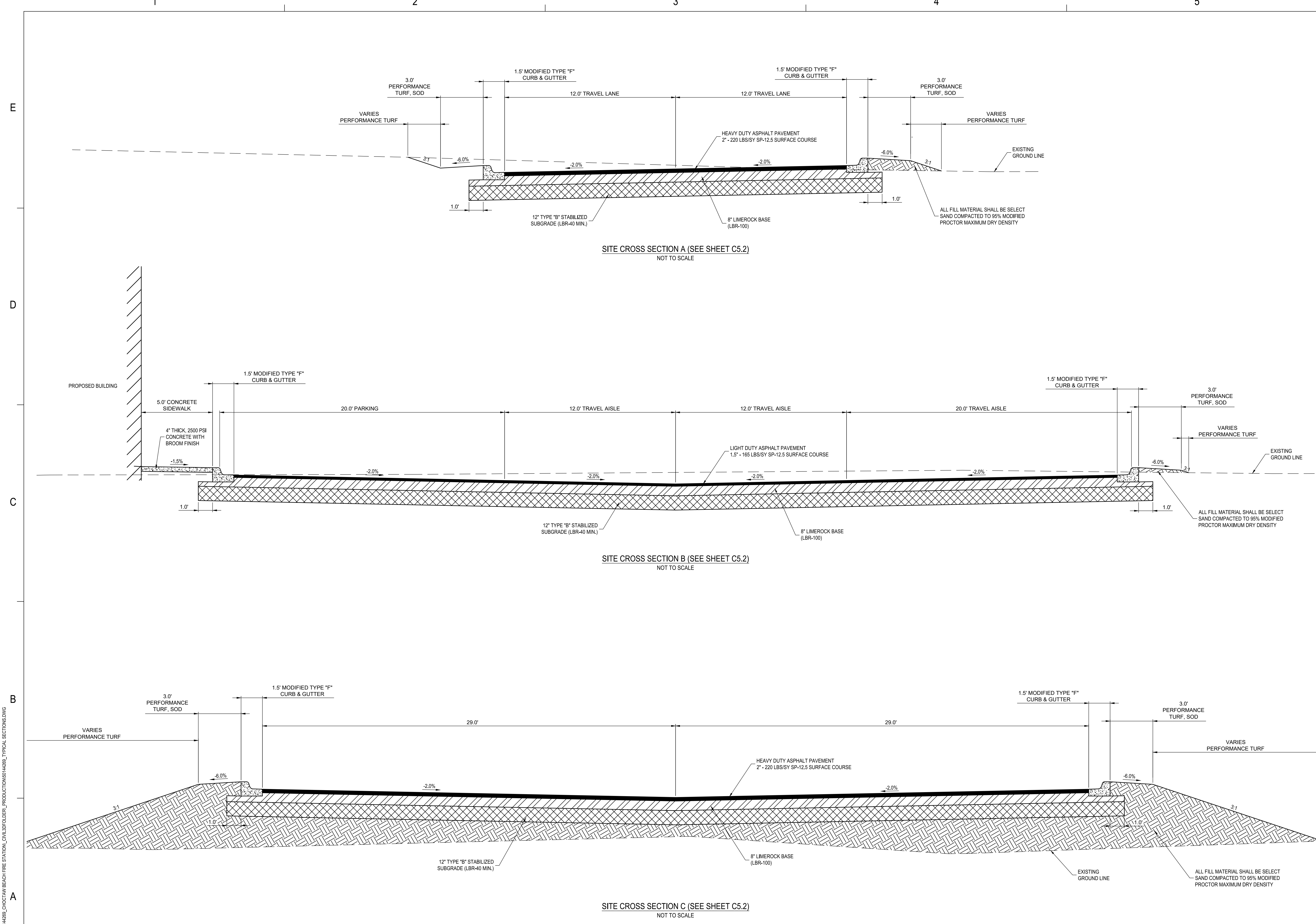
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TITLE
TYPICAL SECTIONS

PROJECT NO. _____ 50144269

C1.2

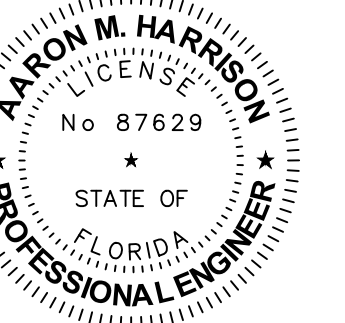
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 BOARD OF COUNTY COMMISSIONERS
 WALTON COUNTY
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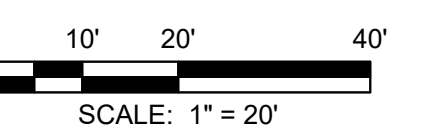


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DATE	JULY 2023

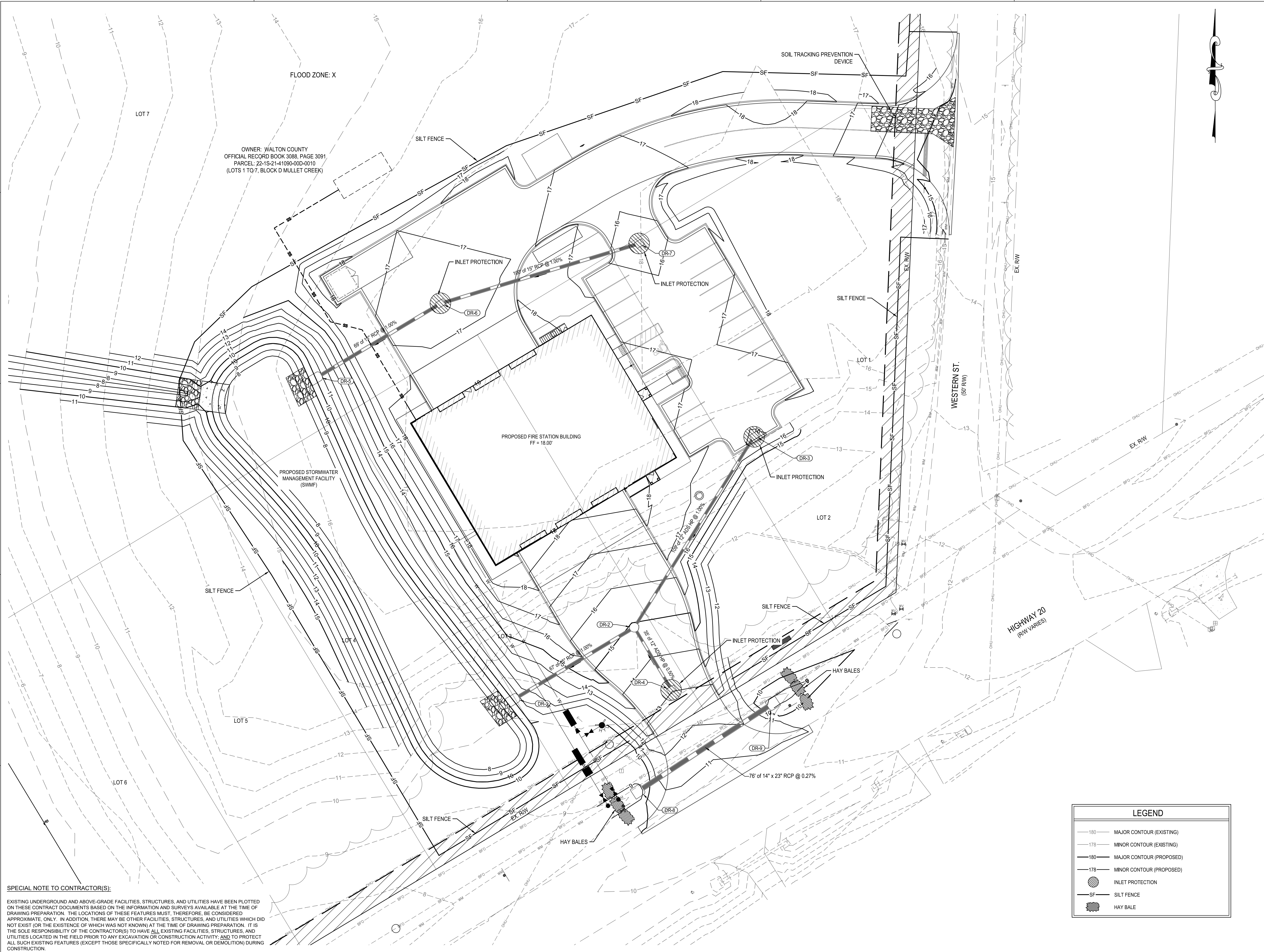
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**SEDIMENT AND
 EROSION CONTROL
 PLAN**

PROJECT NO. 50144269

C3.1

SHEET NO.



SPECIAL NOTE TO CONTRACTOR(S):
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

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STORMWATER POLLUTION PREVENTION PLAN:

1. SITE DESCRIPTION: UNDISTURBED LAND
 1A. CONSTRUCTION ACTIVITY: CONSTRUCTION OF NEW FIRE STATION BUILDING, CONCRETE DRIVES, ASPHALT PARKING LOT, STORM SEWER, AND RETENTION POND.
 MAJOR SOIL DISTURBING ACTIVITIES: GRADING AND SURFACE PREPARATION FOR BUILDING AND PARKING LOT CONSTRUCTION.
- 1B. TOTAL PROJECT AREA: 11.32 ACRES
 TOTAL SOIL AREA TO BE DISTURBED: 1.61 ACRES
- 1C. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION:
 BEFORE = 0.70
 DURING = 0.75
 AFTER = 0.80
- (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: LOAMY SAND

1D. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS:

STRUCTURE	STATION	NORTHING	EASTING
1. DR-1	N/A	545909.48	1456916.97
2. DR-20	00+27.89	546174.46	1456780.55
3. DR-23	00+57.67	546170.32	1456812.32
4. DR-25	N/A	546087.13	1456808.51
5. DR-27	N/A	545834.39	1456731.15

1E. NAME OF RECEIVING WATERS: MULLET CREEK
 WETLAND IMPACT AREA: 0.0 ACRES

2. CONTROLS:
 NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
 THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SILT FENCE AND HAY BALES WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SILT FENCE AND HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS. INLET PROTECTION AND TURBIDITY BARRIERS WILL BE USED TO PREVENT SEDIMENT FROM INTERFERING RECEIVING WATERS AND/OR WETLAND AREAS.

2A. EROSION AND SEDIMENT CONTROLS:

- (1) STABILIZATION PRACTICES:
 TEMPORARY SODDING
 TEMPORARY GRASSING
 PERMANENT PLANTING, SODDING, OR SEEDING
 TEMPORARY MULCHING
 ARTIFICIAL COVERING
 BUFFER ZONES
 PRESERVATION OF NATURAL RESOURCES

2B. STRUCTURAL PRACTICES:

- | | |
|---|--|
| <input type="checkbox"/> SAND BAGGING | <input type="checkbox"/> SEDIMENT TRAPS |
| <input checked="" type="checkbox"/> SILT FENCES | <input type="checkbox"/> SEDIMENT BASINS |
| <input checked="" type="checkbox"/> HAY BALES | <input type="checkbox"/> STONE OUTLET STRUCTURES |
| <input checked="" type="checkbox"/> BERMS | <input checked="" type="checkbox"/> CURB AND GUTTERS |
| <input type="checkbox"/> DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES | <input checked="" type="checkbox"/> STORM SEWERS |
| <input type="checkbox"/> PIPE SLOPE DRAINS | <input type="checkbox"/> VELOCITY CONTROL DEVICES |
| <input type="checkbox"/> FLUMES | |
| <input checked="" type="checkbox"/> ROCK BEDDING AT CONSTRUCTION EXIT | |
| <input type="checkbox"/> TIMBER BEDDING AT CONSTRUCTION EXIT | |
| <input type="checkbox"/> DITCH LINER | |
| <input checked="" type="checkbox"/> INLET PROTECTION | |
| <input type="checkbox"/> TURBIDITY BARRIERS | |
| <input checked="" type="checkbox"/> RIP RAP | |

2C. DESCRIPTION OF STORMWATER MANAGEMENT: ON-SITE WET RETENTION BASIN.

2D. OTHER CONTROLS:

- (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
 (2) OFFSITE VEHICLE TRACKING:
 HAUL ROADS DAMPENED FOR DUST CONTROL
 LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
 EXCESS DIRT ON ROAD REMOVED DAILY
 STABILIZED CONSTRUCTION ENTRANCE
 (3) SANITARY WASTE: N/A
 (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
 (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.

3. MAINTENANCE:
 ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

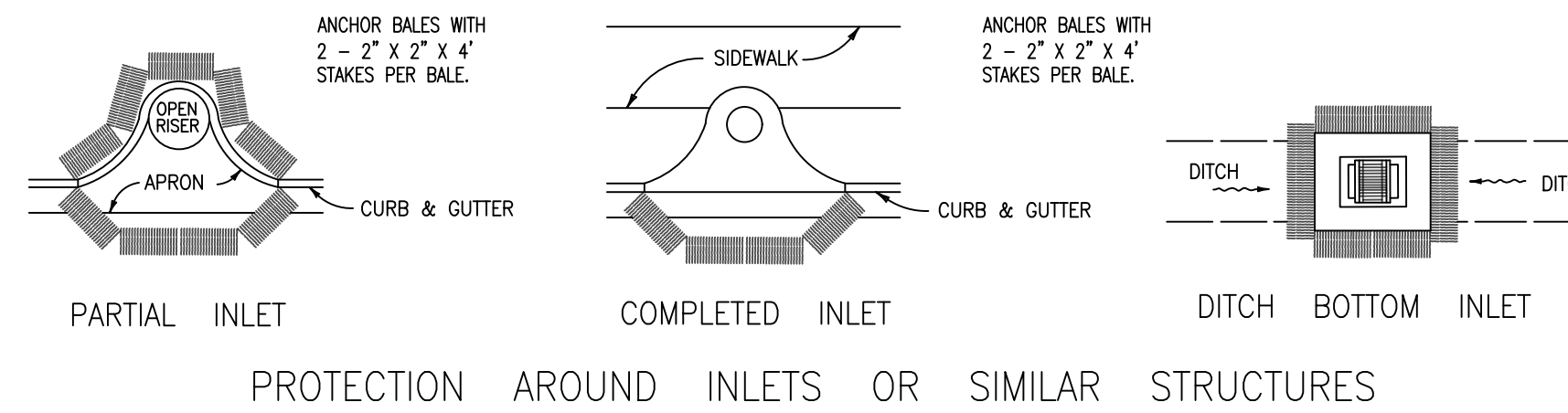
4. INSPECTION:
 ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.

5. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

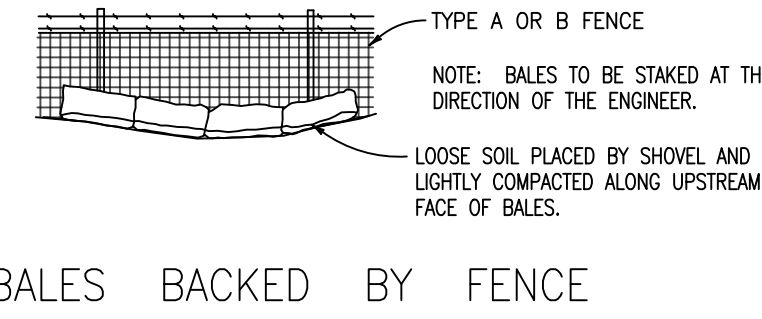
6. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.

7. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.

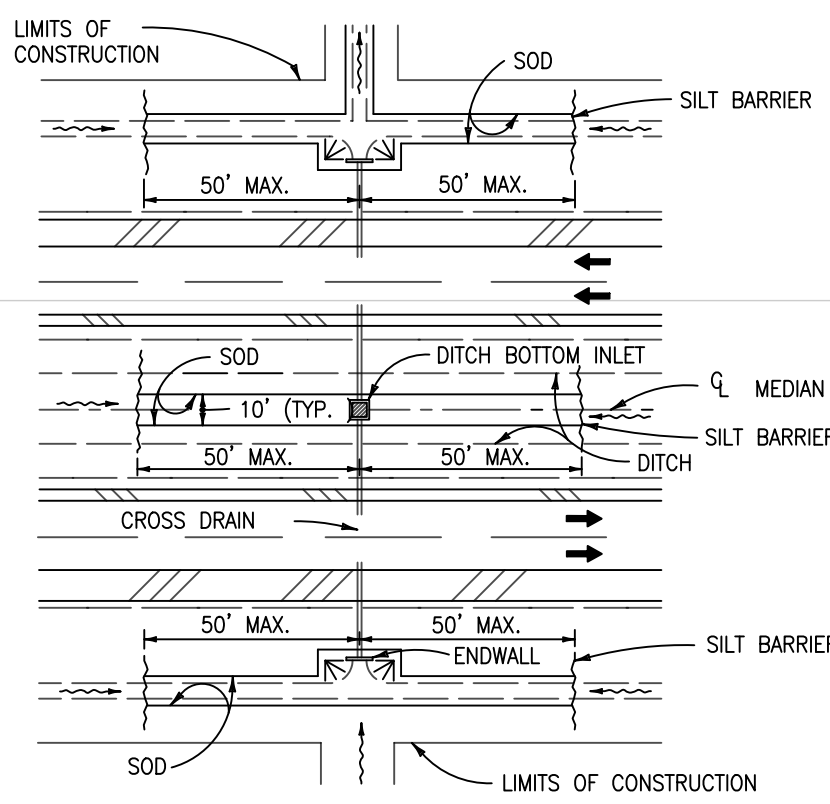
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY AT 850-233-5100 PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



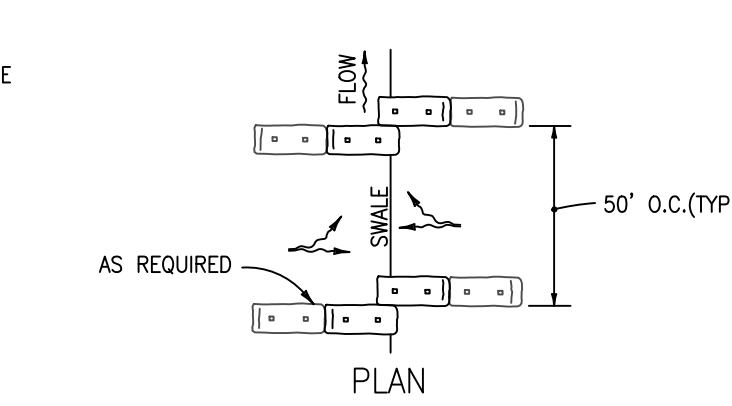
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



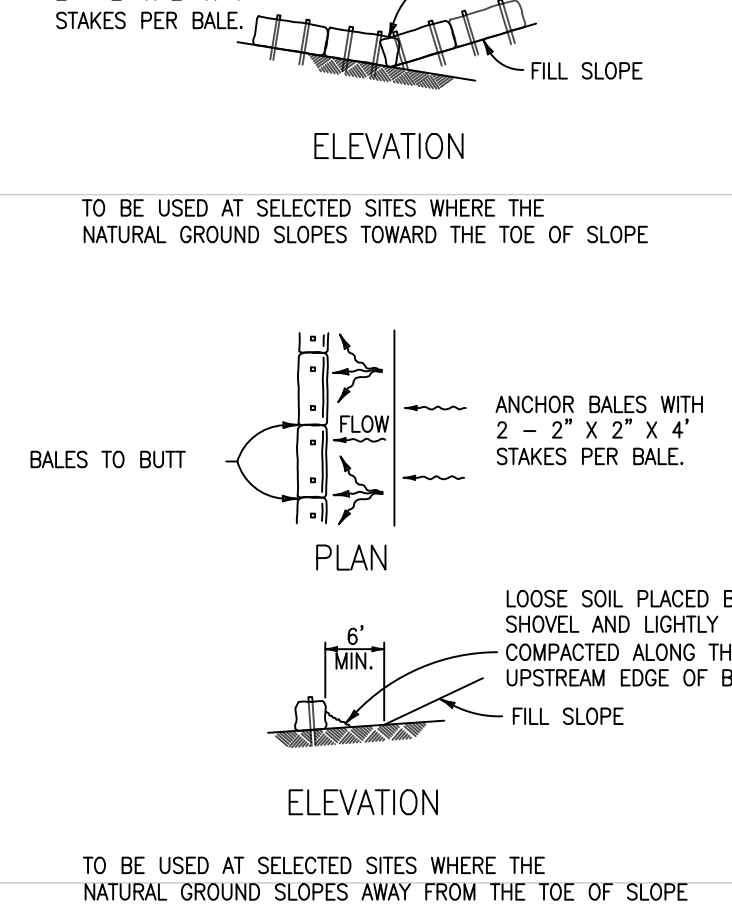
BALES BACKED BY FENCE



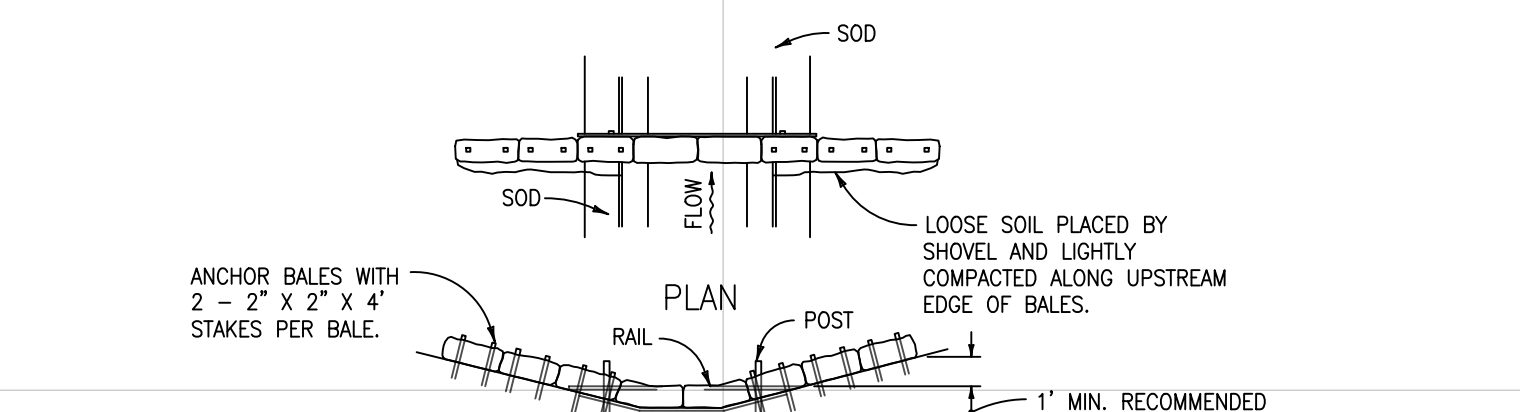
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



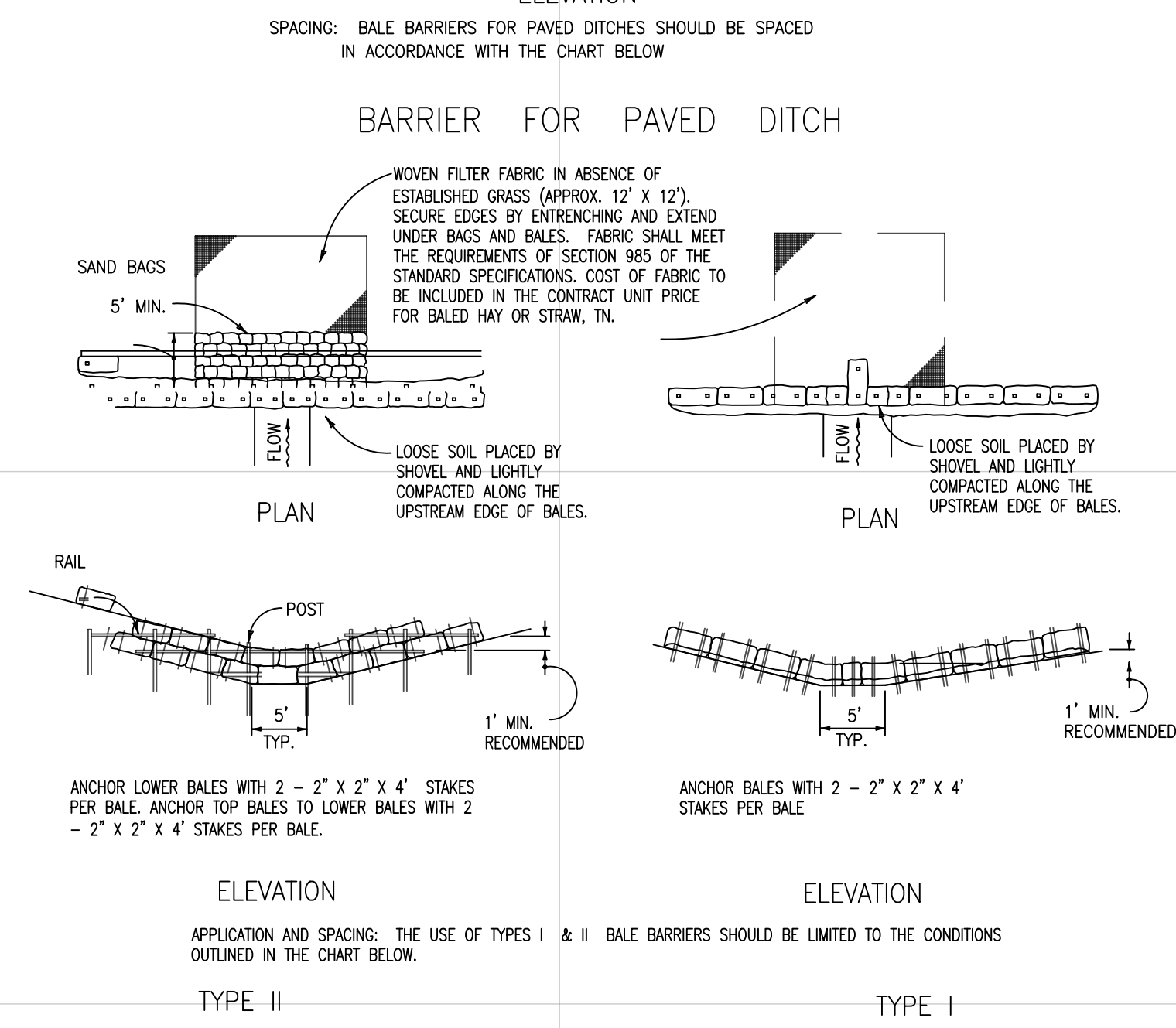
BARRIERS FOR FILL SLOPES



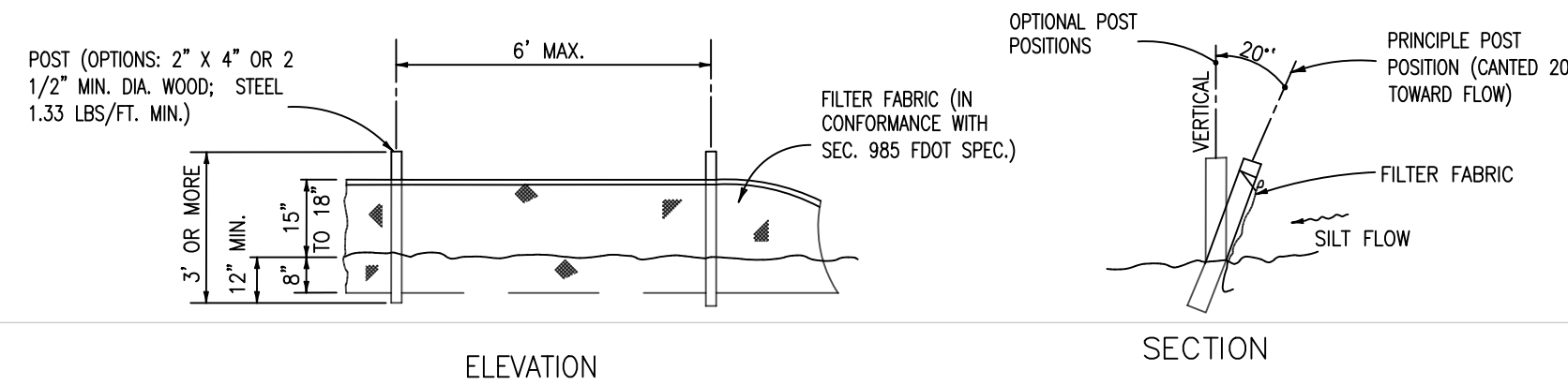
BARRIERS FOR UNPAVED DITCHES



Barrier for Paved Ditch

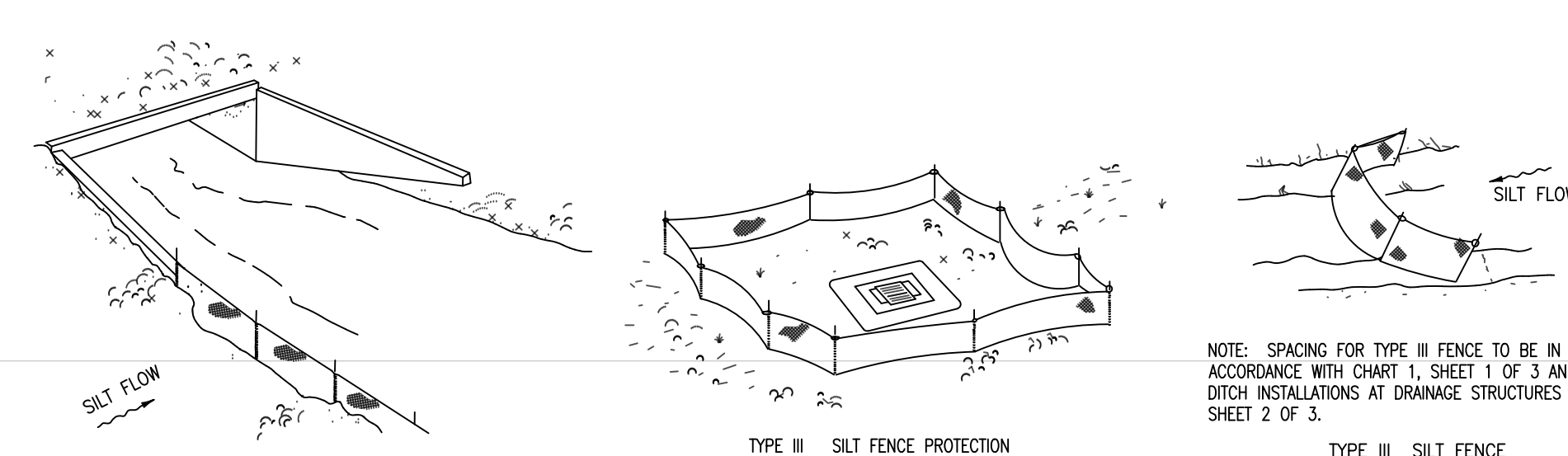


Barrier for Unpaved Ditches



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE



DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

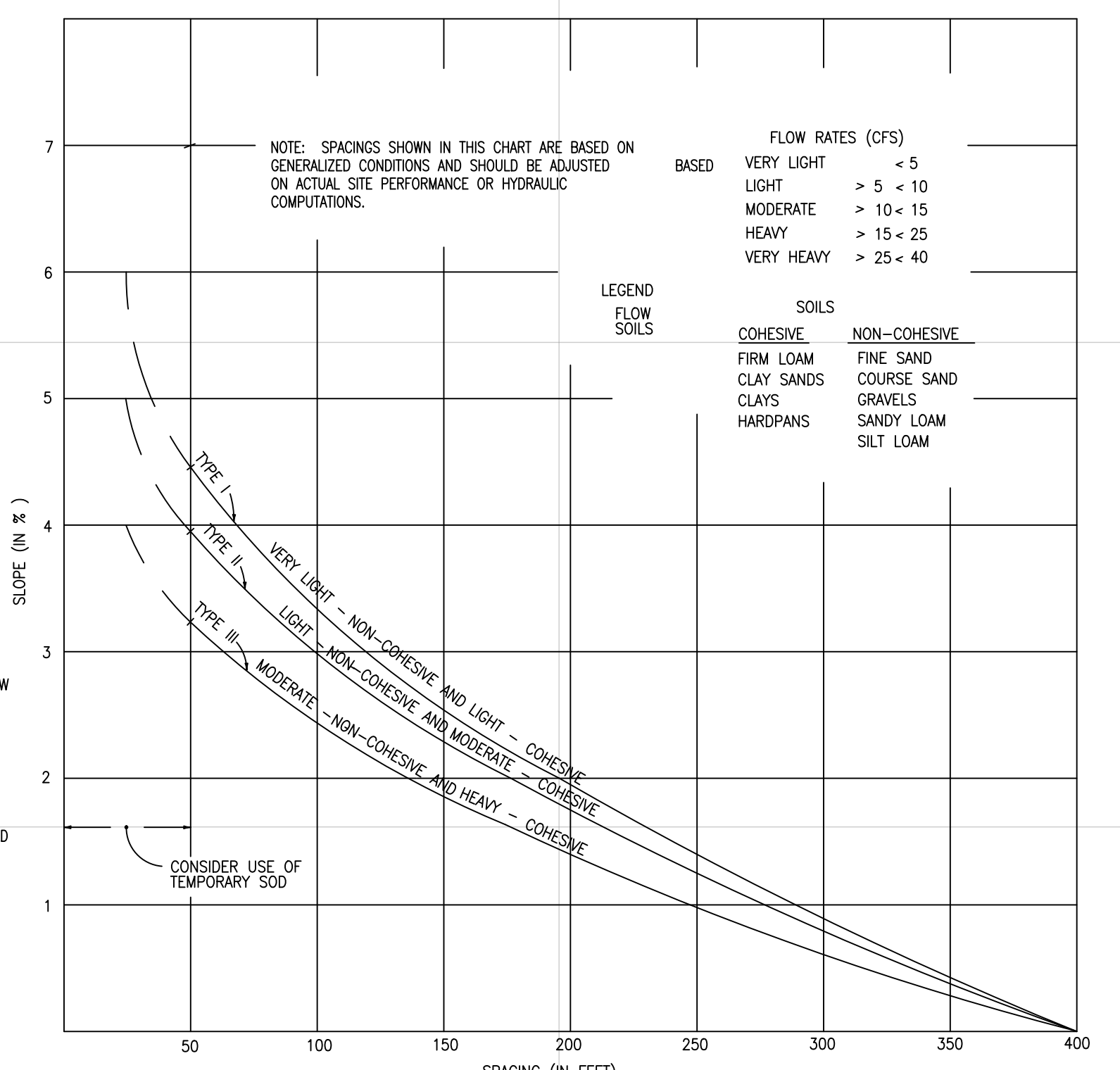


CHART I
 RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

Dewberry
 877 CR 393 North
 Santa Rosa Beach, FL 32459
 850.267.0759

CHOCTAW BEACH FIRE STATION
 BOARD OF COUNTY COMMISSIONERS
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TITLE

STORMWATER POLLUTION PREVENTION PLAN AND DETAILS

PROJECT NO. 50144269

C3.2

SHEET NO.

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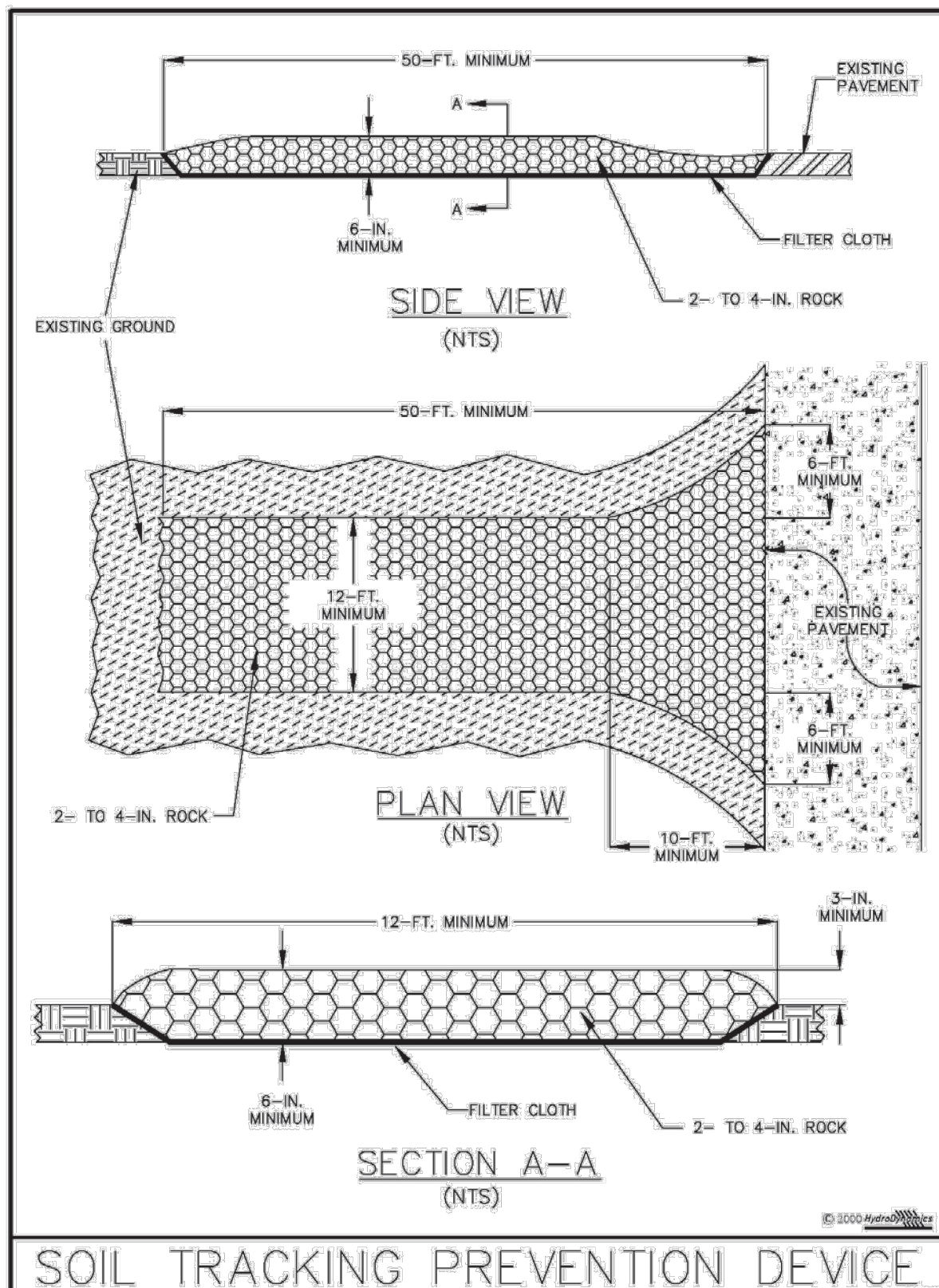


Figure V-19: Illustration of a Soil Tracking Prevention Device

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V-44

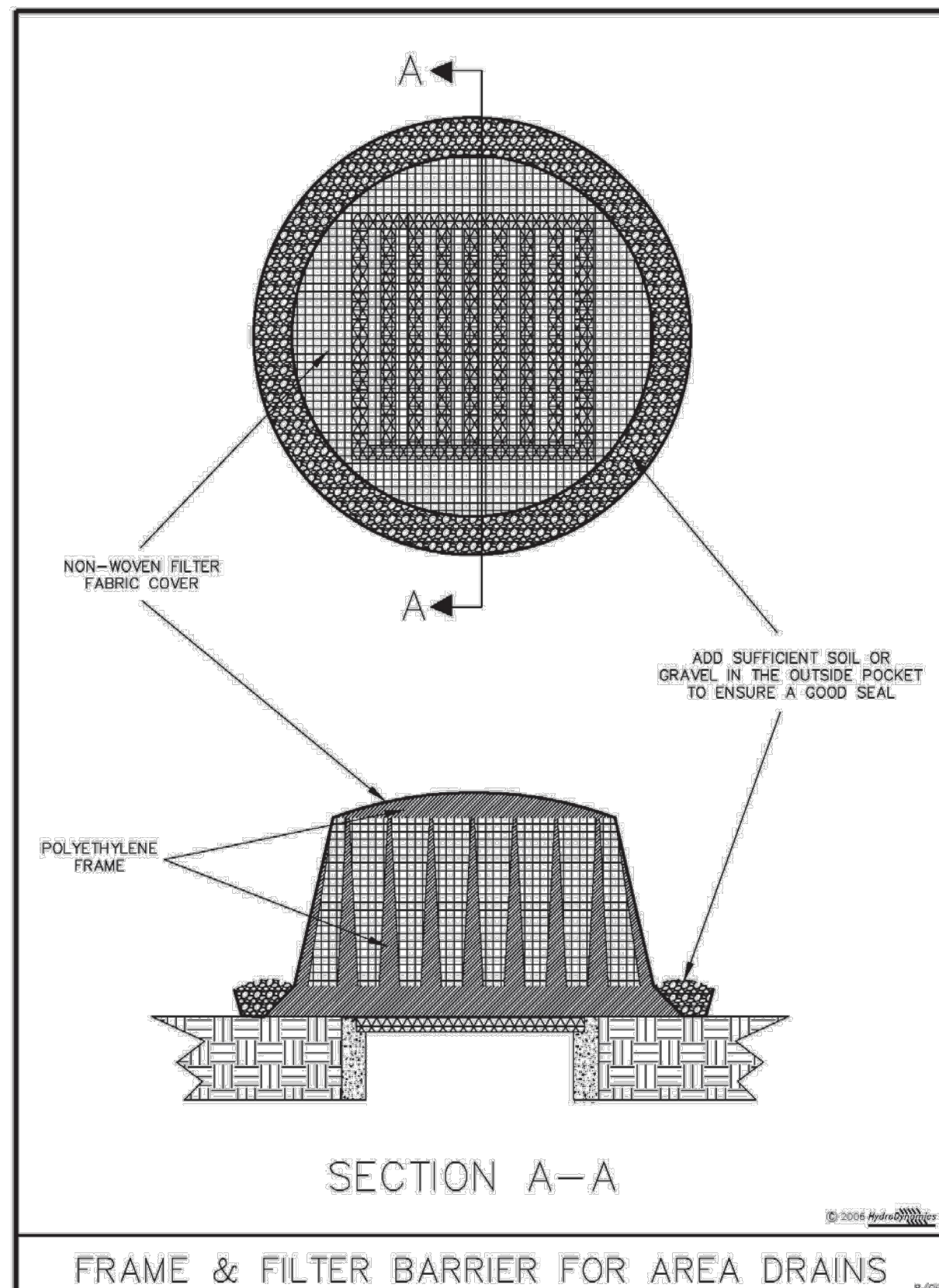


Figure V-14: Illustration of a Frame & Filter Barrier for Area Drains

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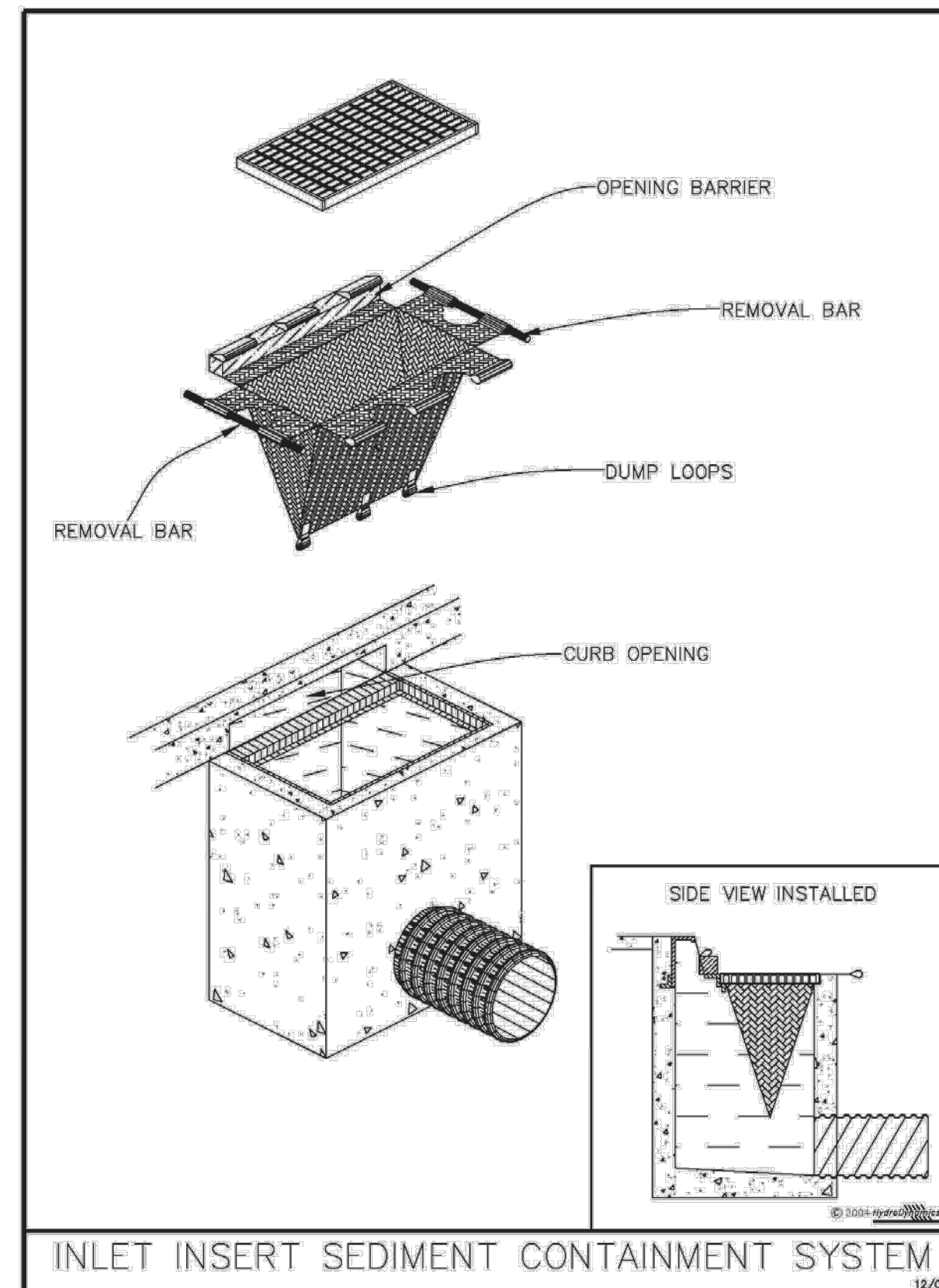


Figure V-18: Illustration of an Inlet Insert Sediment Containment System

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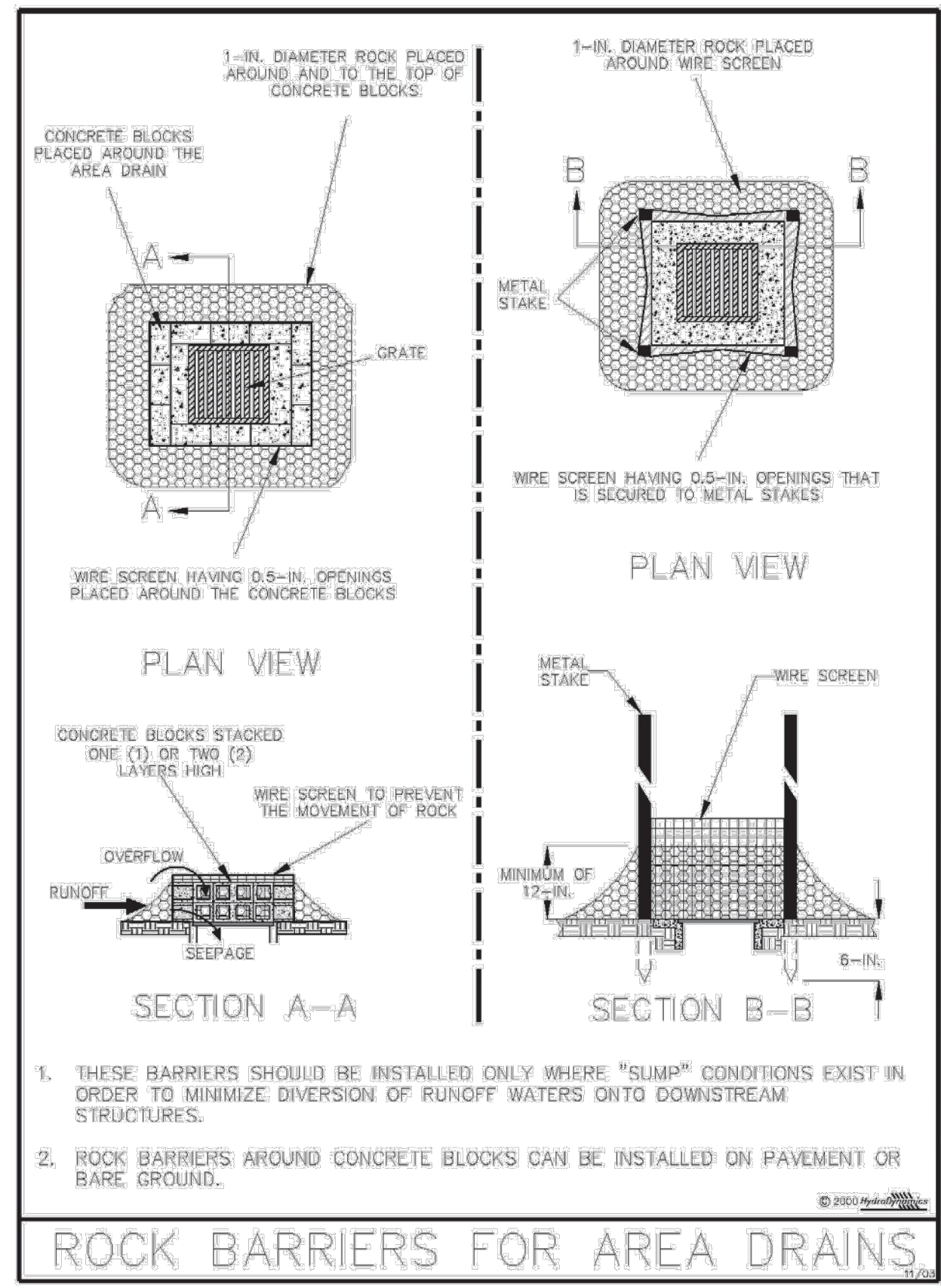
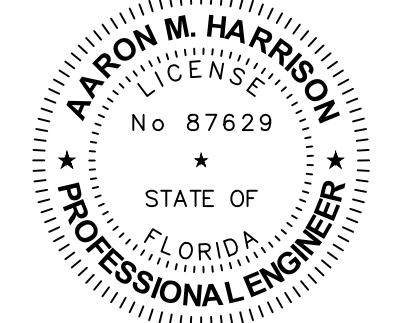


Figure V-13: Illustration of Rock Barriers around Area Drains

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V-32

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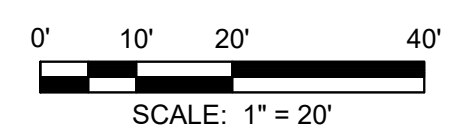


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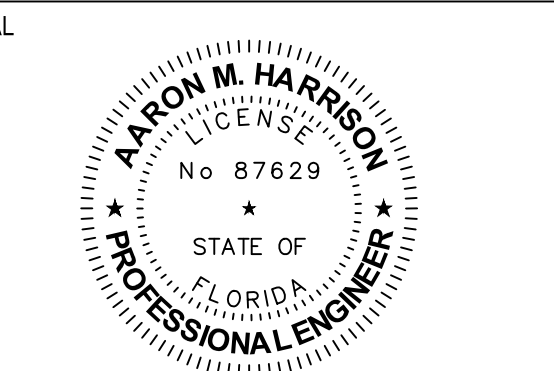
STORMWATER POLLUTION PREVENTION PLAN AND DETAILS

PROJECT NO. _____ 50144269

C3.3

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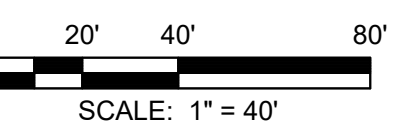


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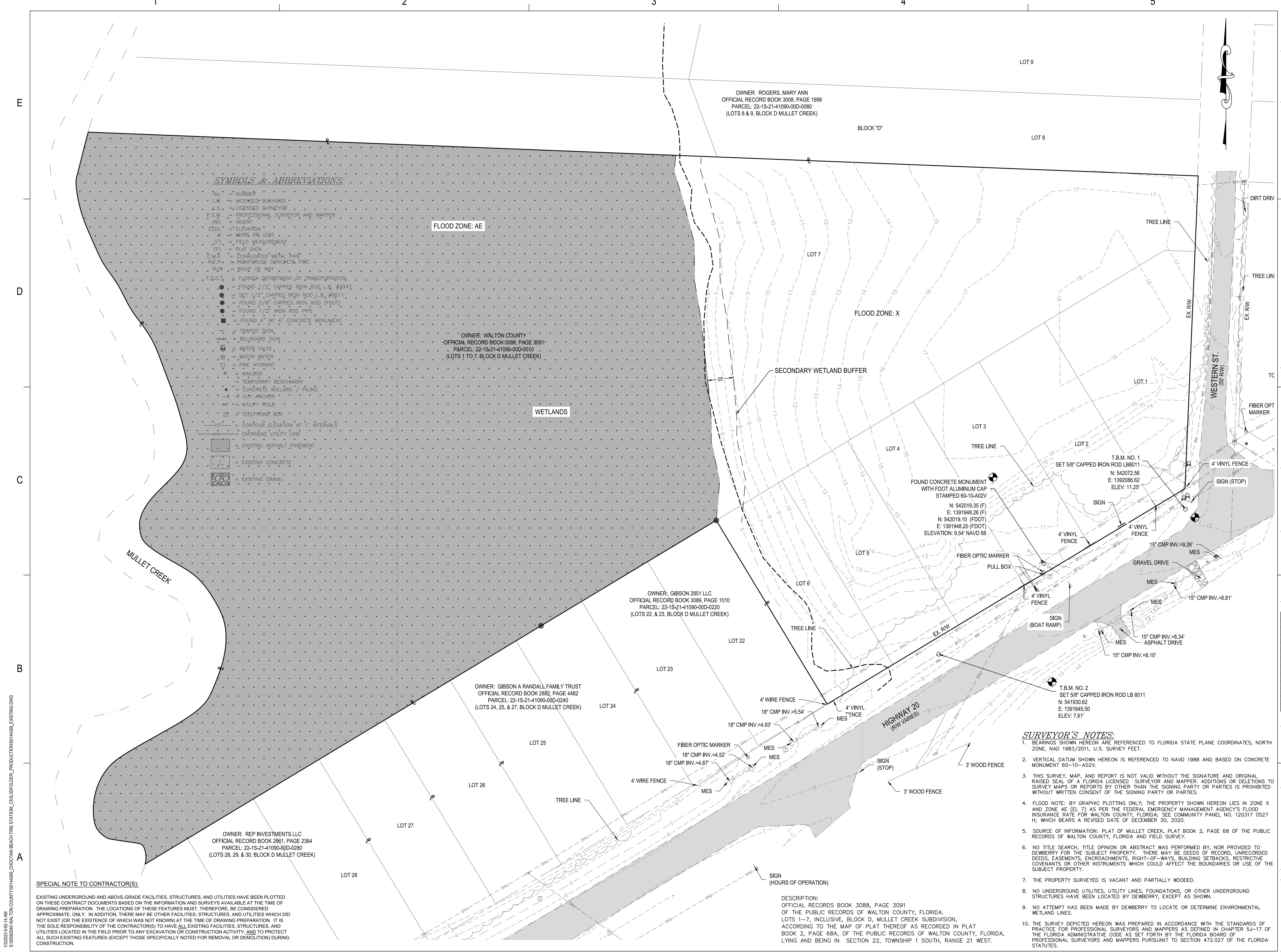
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**EXISTING
CONDITIONS**

PROJECT NO. 50144269

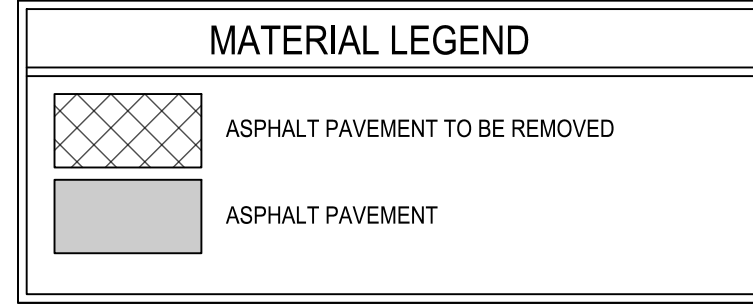
C4.1

SHEET NO.



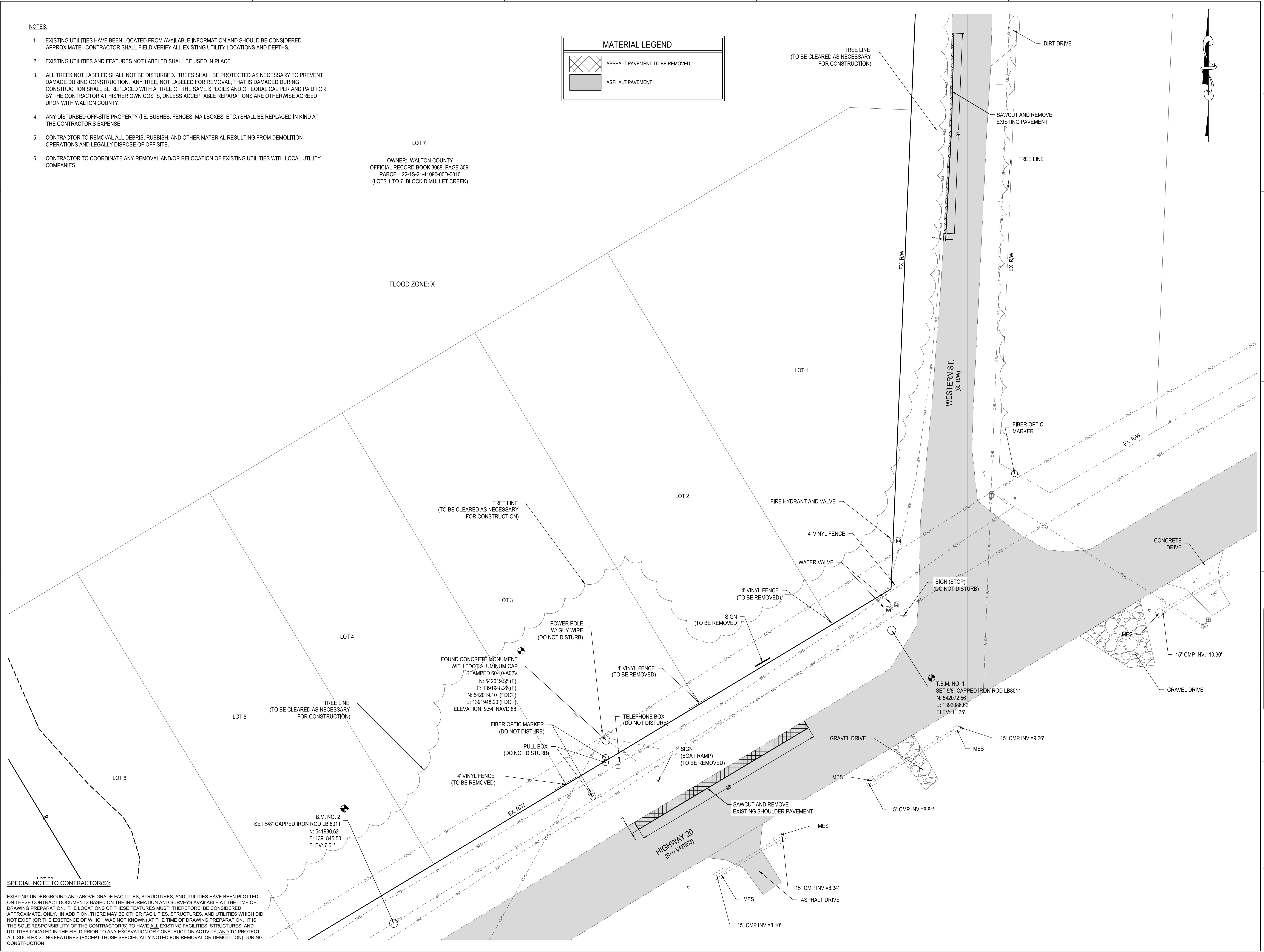
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- NOTES:**
- EXISTING UTILITIES HAVE BEEN LOCATED FROM AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS.
 - EXISTING UTILITIES AND FEATURES NOT LABELED SHALL BE USED IN PLACE.
 - ALL TREES NOT LABELED SHALL NOT BE DISTURBED. TREES SHALL BE PROTECTED AS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. ANY TREE, NOT LABELED FOR REMOVAL, THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A TREE OF THE SAME SPECIES AND OF EQUAL CALIPER AND PAID FOR BY THE CONTRACTOR AT HIS/HER OWN COSTS, UNLESS ACCEPTABLE REPARATIONS ARE OTHERWISE AGREED UPON WITH WALTON COUNTY.
 - ANY DISTURBED OFF-SITE PROPERTY (I.E. BUSHES, FENCES, MAILBOXES, ETC.) SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR TO REMOVE ALL DEBRIS, RUBBISH, AND OTHER MATERIAL RESULTING FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF SITE.
 - CONTRACTOR TO COORDINATE ANY REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES WITH LOCAL UTILITY COMPANIES.



LOT 7
 OWNER: WALTON COUNTY
 OFFICIAL RECORD BOOK 3088, PAGE 3091
 PARCEL: 22-1S-21-41090-00D0010
 (LOTS 1 TO 7, BLOCK D MULLET CREEK)

FLOOD ZONE: X



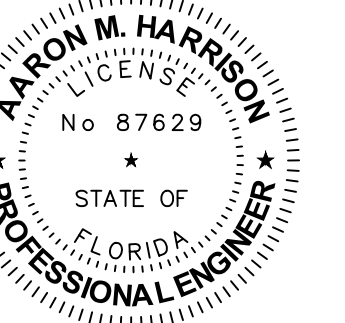
SPECIAL NOTE TO CONTRACTOR(S):
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DO NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY, AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.



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 WALTON COUNTY
 FLORIDA

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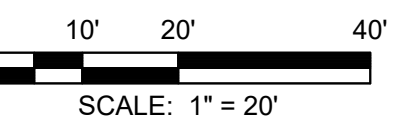


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NO.	DESCRIPTION	DATE

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TITLE
EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT NO. _____ 50144269

C4.2

SHEET NO.

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A B C

THRUST RESTRAINT
WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEM STANDARDS

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: UM-7

THRUST RESTRAINT TABLE
WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEM STANDARDS

MAIN PIPE SIZE	HORIZ. BENDS			TEES		REDUCERS		PLUGS
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	
48	128	53	26	X48 X42 X36 X30 X24	X48 X42 X36 X30 X24	X48 X42 X36 X30 X24	X48 X42 X36 X30 X24	321
42	117	49	24	X42 X36 X30 X24 X18	X42 X36 X30 X24 X18	X42 X36 X30 X24 X18	X42 X36 X30 X24 X18	289
36	106	44	21	X36 X30 X24 X18 X12	X36 X30 X24 X18 X12	X36 X30 X24 X18 X12	X36 X30 X24 X18 X12	257
30	93	39	19	X30 X24 X18 X12 X6	X30 X24 X18 X12 X6	X30 X24 X18 X12 X6	X30 X24 X18 X12 X6	222
24	79	33	16	X24 X18 X12 X6 X3	X24 X18 X12 X6 X3	X24 X18 X12 X6 X3	X24 X18 X12 X6 X3	185
20	68	29	14	X20 X16 X12 X6 X3	X20 X16 X12 X6 X3	X20 X16 X12 X6 X3	X20 X16 X12 X6 X3	159
16	57	24	12	X16 X12 X6 X3 X1.5	X16 X12 X6 X3 X1.5	X16 X12 X6 X3 X1.5	X16 X12 X6 X3 X1.5	131
12	45	19	9	X12 X6 X3 X1.5 X0.75	X12 X6 X3 X1.5 X0.75	X12 X6 X3 X1.5 X0.75	X12 X6 X3 X1.5 X0.75	102
10	39	16	8	X10 X6 X3 X1.5 X0.75	X10 X6 X3 X1.5 X0.75	X10 X6 X3 X1.5 X0.75	X10 X6 X3 X1.5 X0.75	87
8	33	14	7	X8 X6 X3 X1.5 X0.75	X8 X6 X3 X1.5 X0.75	X8 X6 X3 X1.5 X0.75	X8 X6 X3 X1.5 X0.75	72
6	25	11	5	X6 X3 X1.5 X0.75 X0.5	X6 X3 X1.5 X0.75 X0.5	X6 X3 X1.5 X0.75 X0.5	X6 X3 X1.5 X0.75 X0.5	55
4	18	8	4	X4 X3 X1.5 X0.75 X0.5	X4 X3 X1.5 X0.75 X0.5	X4 X3 X1.5 X0.75 X0.5	X4 X3 X1.5 X0.75 X0.5	39

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: UM-7A

DETAIL - 1" SERVICE TO WATER METER (RESIDENTIAL USE)
SCALE: N.T.S.

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50130038
DRAWING: W-1

DETAIL - 2" - 6" WATER METER INSTALLATION
SCALE: N.T.S.

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: W-2

WATER & SEWER SEPERATION
WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEM STANDARDS

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: UM-1

WATER & SEWER SEPERATION
WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEM STANDARDS

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: UM-1A

DETAIL - TYPICAL VALVE BOX & PAD
SCALE: N.T.S.

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: UM-3

TYPICAL PIPE BEDDING
WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEM STANDARDS

DATE: JANUARY 2021
PROJECT: 877 CR 393 North Santa Rosa Beach, FL 32459 850.267.0759
SHEET: 50082592
DRAWING: UM-4

SCALE: 1" = 20'

NO. DESCRIPTION DATE

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DATE: JULY 2023

TITLE: WATER DISTRIBUTION DETAILS

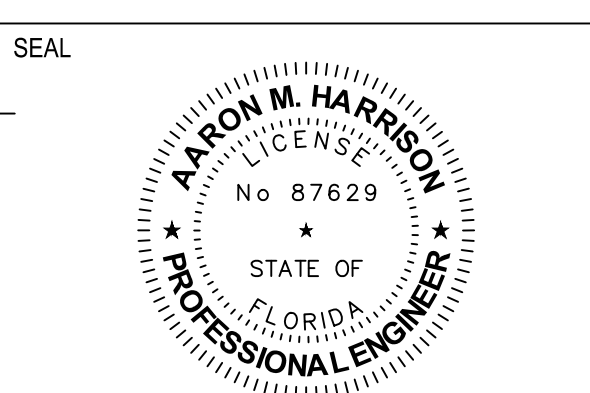
PROJECT NO. 50144269

SHEET NO. C6.2



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SCALE: 1" = 20'

REVISIONS

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DATE: JULY 2023

TITLE: WATER DISTRIBUTION DETAILS

PROJECT NO. 50144269

SHEET NO. C6.2

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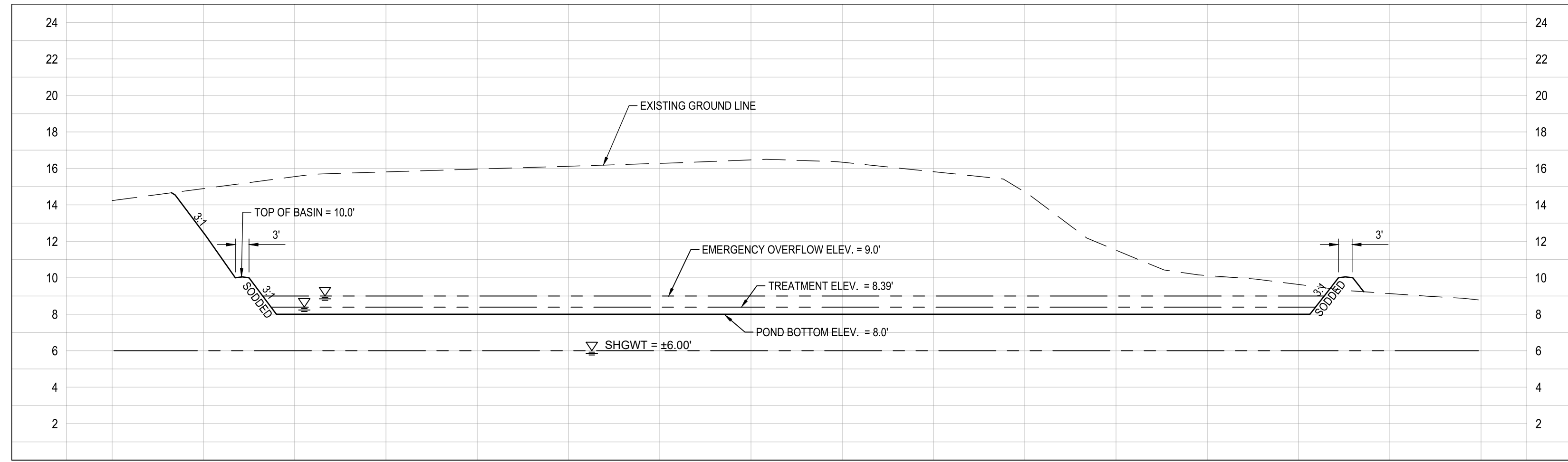
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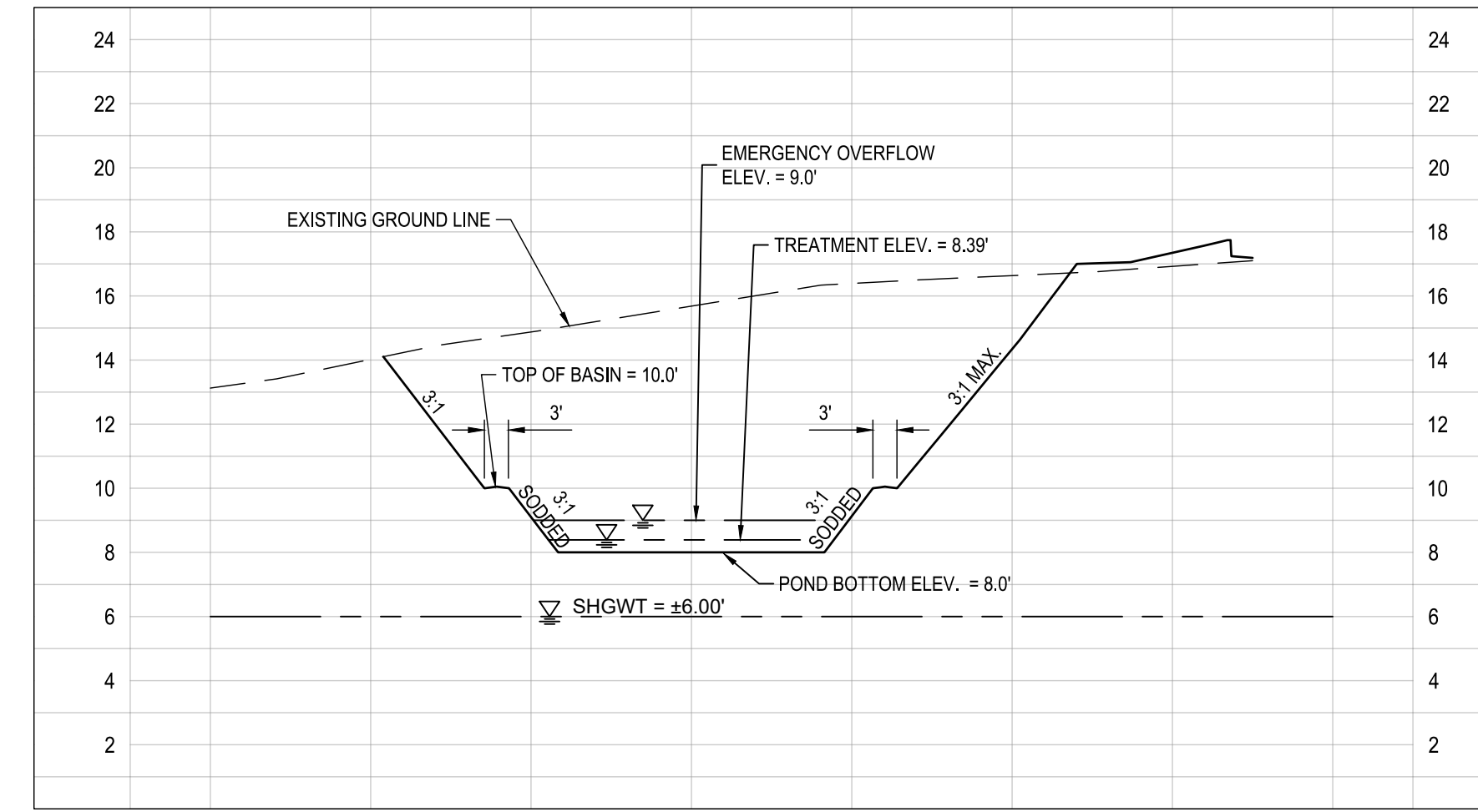
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5

E

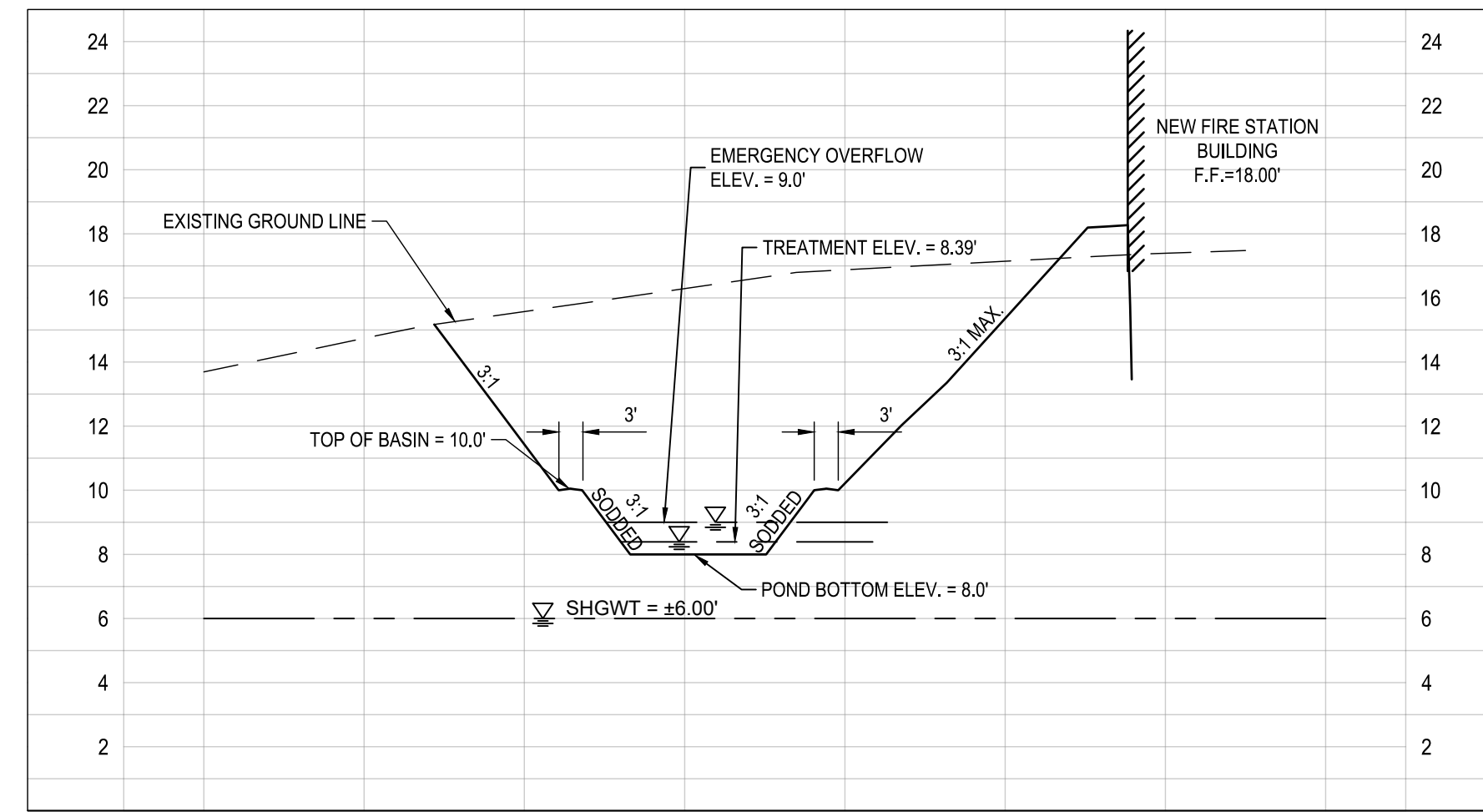


SWMF SECTION A (SEE SHEET C7.1)

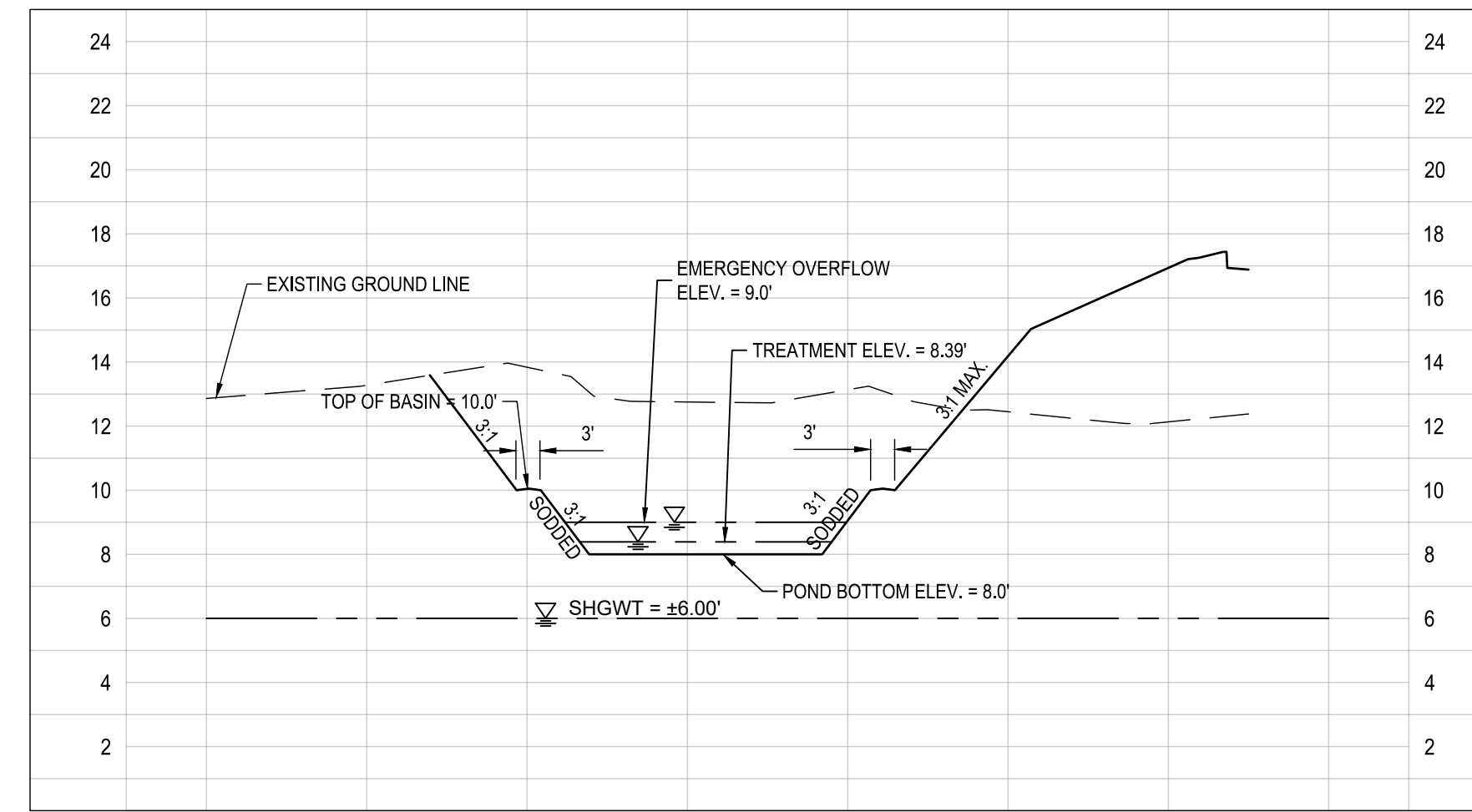


SWMF SECTION B (SEE SHEET C7.1)

D

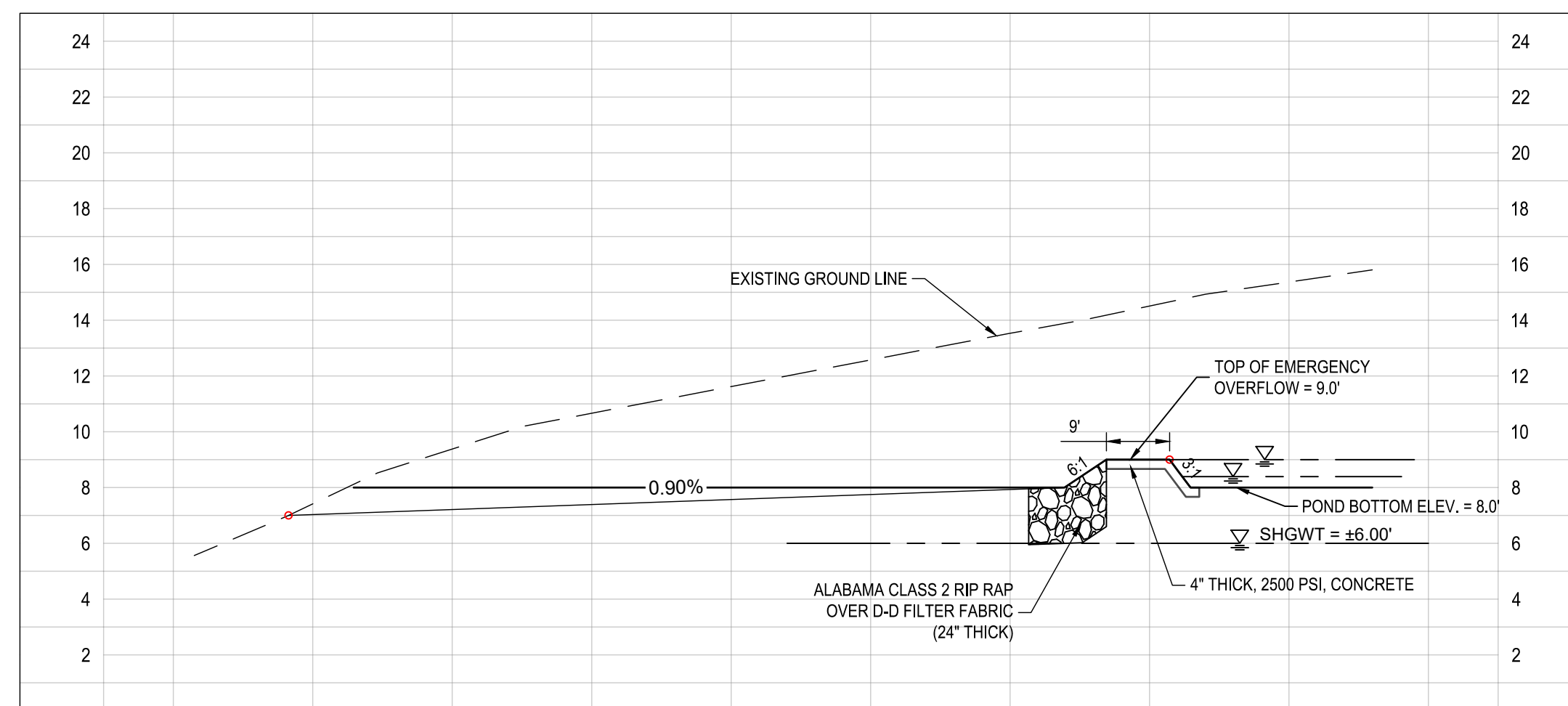


SWMF SECTION C (SEE SHEET C7.1)

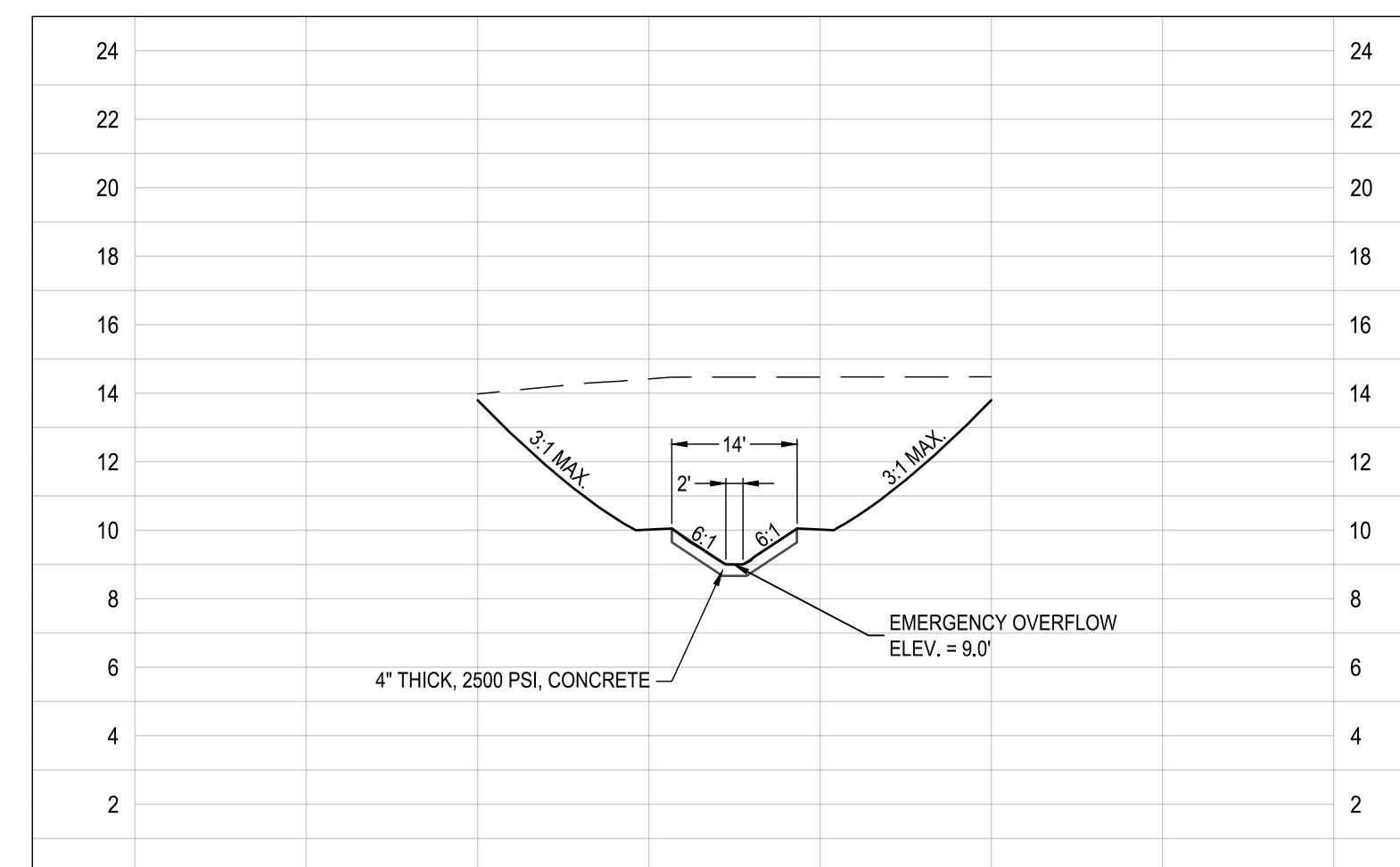


SWMF SECTION D (SEE SHEET C7.1)

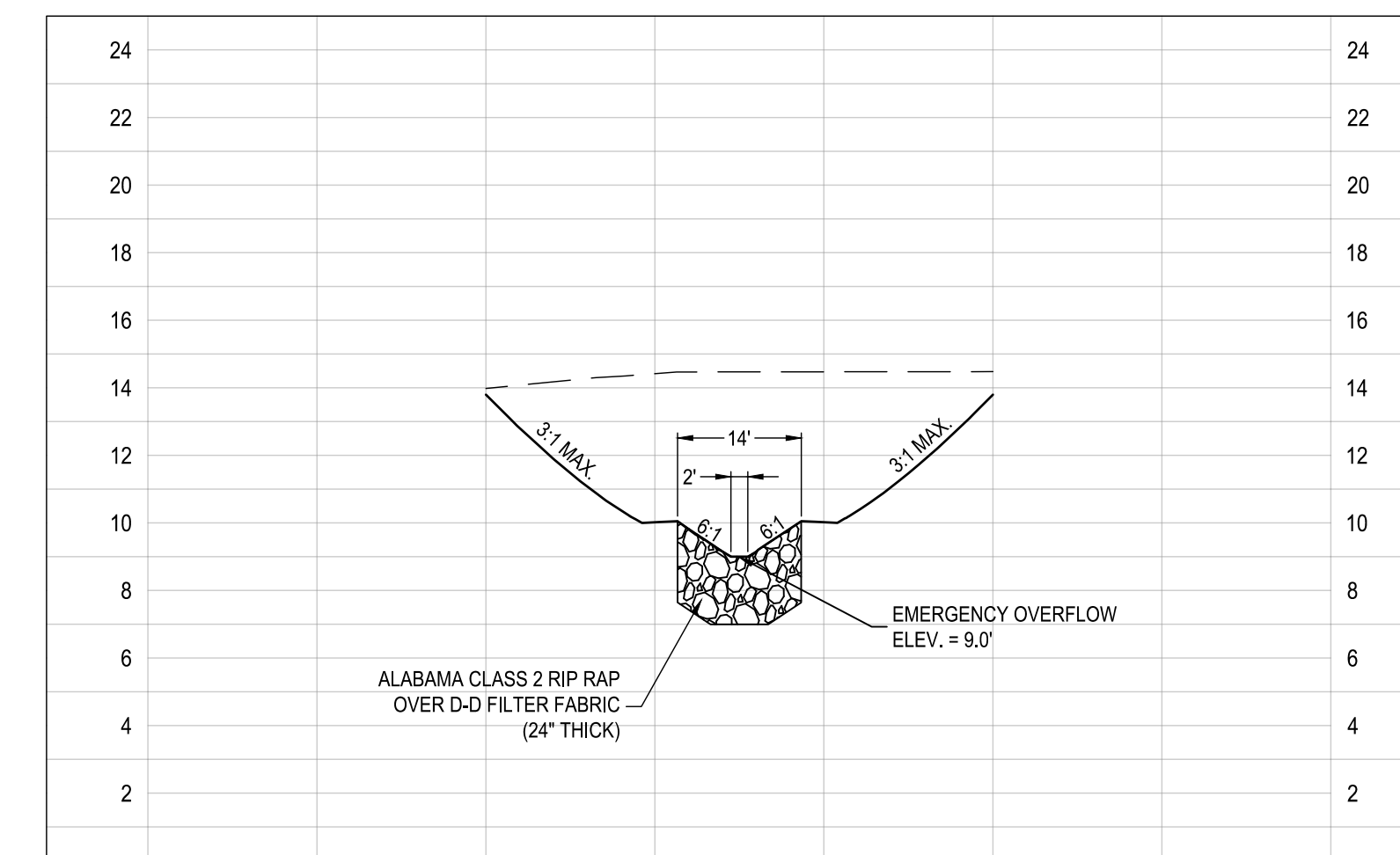
C



SWMF SECTION E (SEE SHEET C7.1)



SWMF SECTION F (SEE SHEET C7.1)



SWMF SECTION G (SEE SHEET C7.1)

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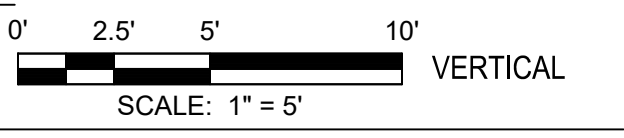
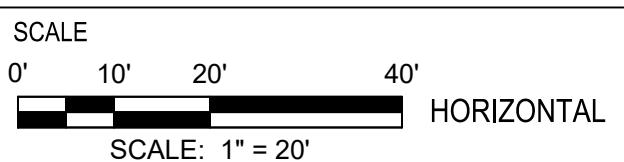
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STORMWATER MANAGEMENT FACILITY SECTIONS

PROJECT NO. 50144269

C7.2

SHEET NO.

7/26/2023 2:13:59 PM S:\00085401\WALTON COUNTY\50144269\C\PROJECT\WALTON COUNTY\CHOCTAW BEACH FIRE STATION\CIVIL\DWG\PRODUCTION\50144269_LANDSCAPE AND DRAINAGE.DWG

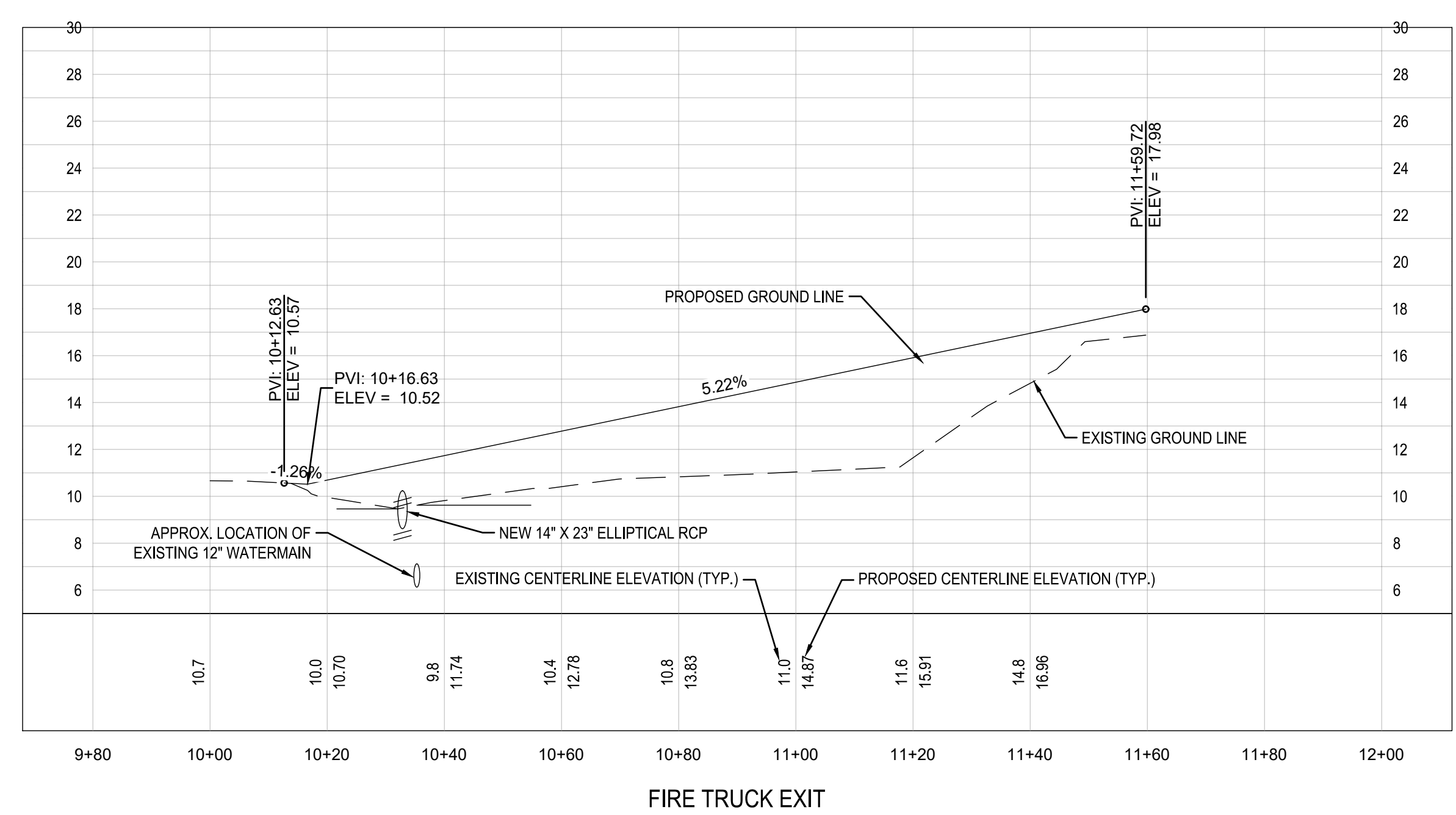
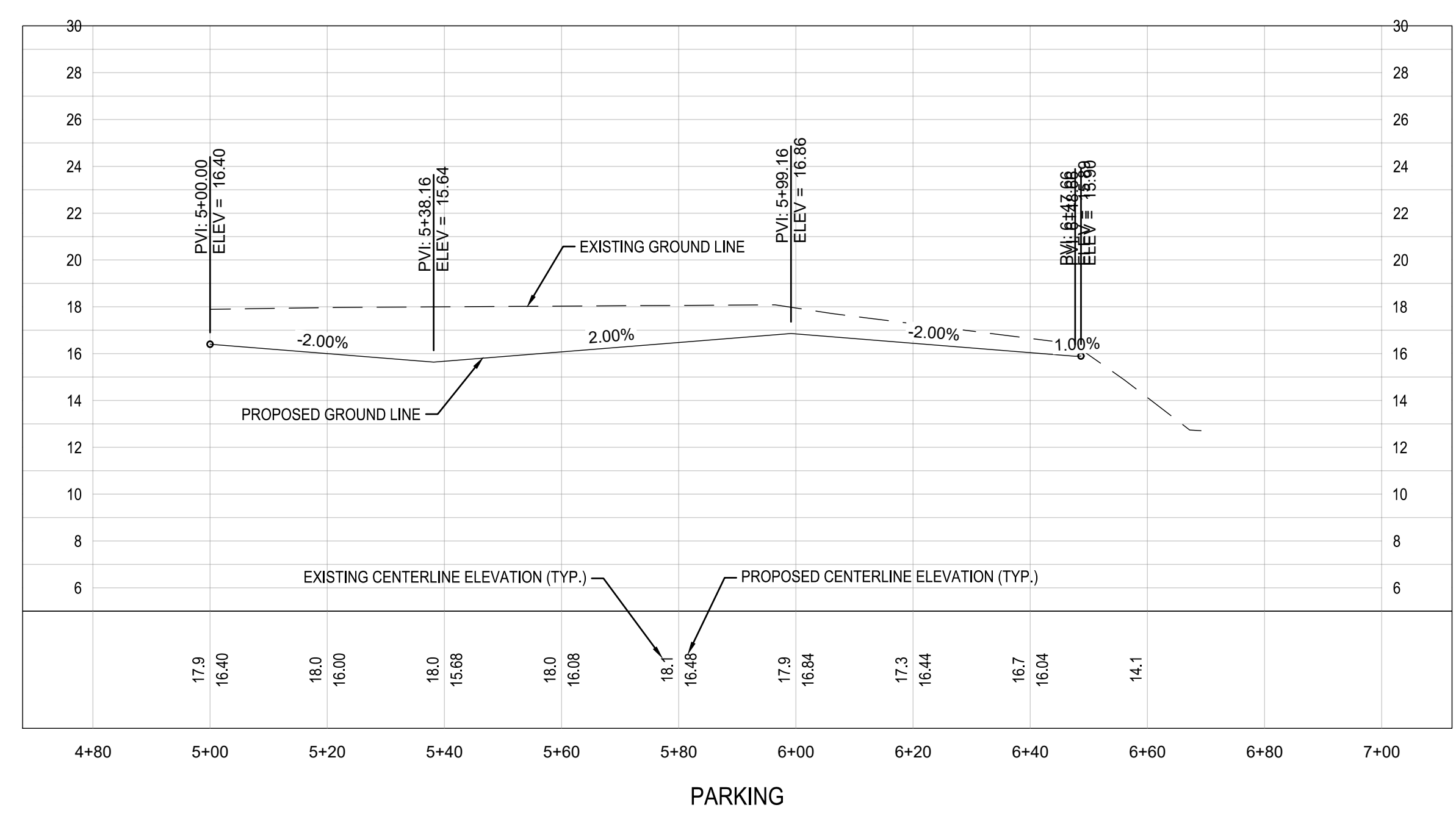
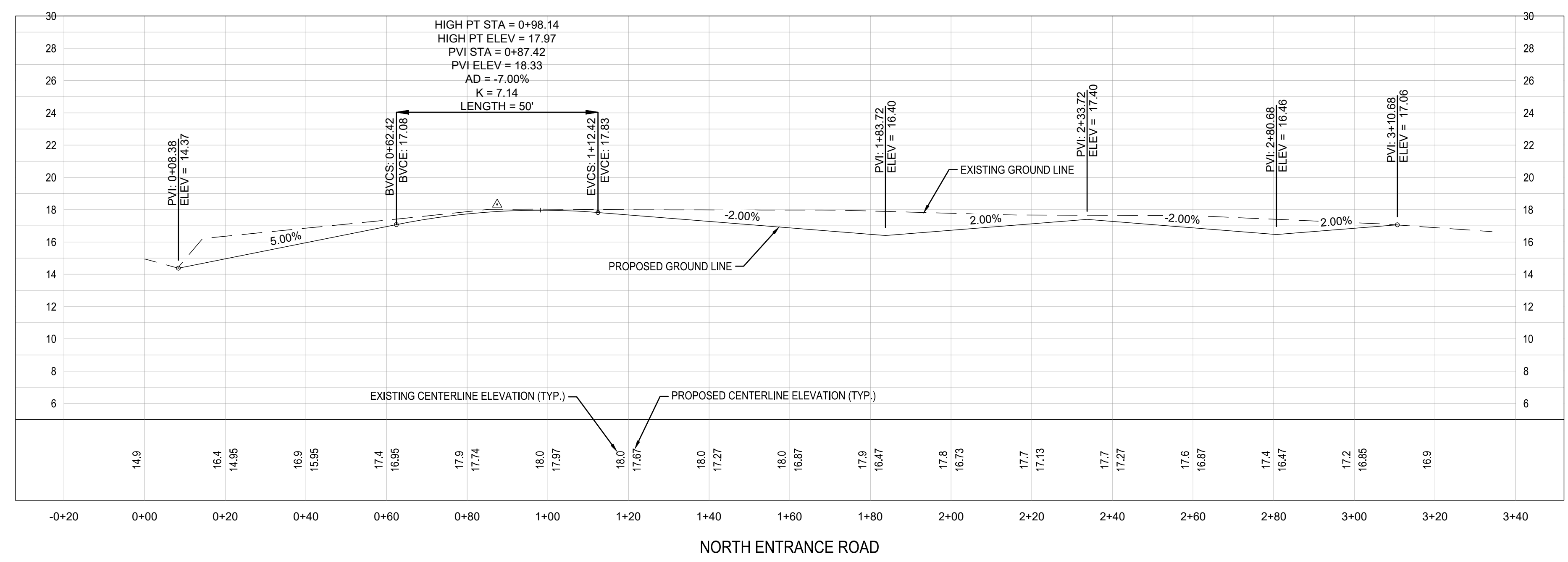
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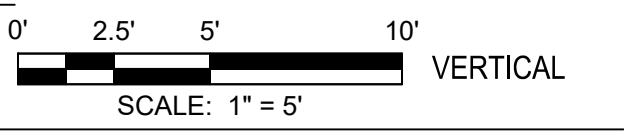
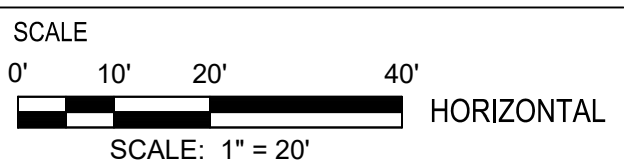
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TITLE
ROADWAY PROFILES

PROJECT NO. _____ 50144269

C8.1

SHEET NO.

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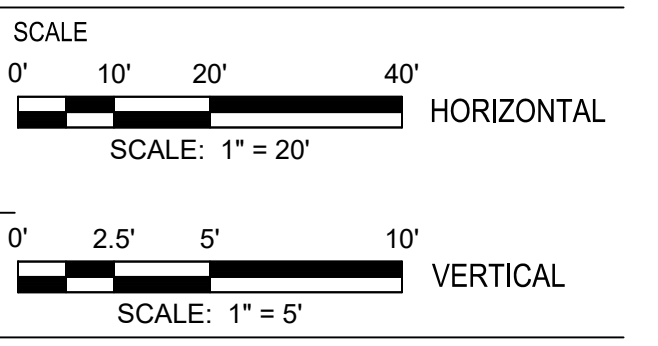
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TITLE
**STORM SEWER
PROFILES**

PROJECT NO. _____ 50144269

C9.1

SHEET NO.

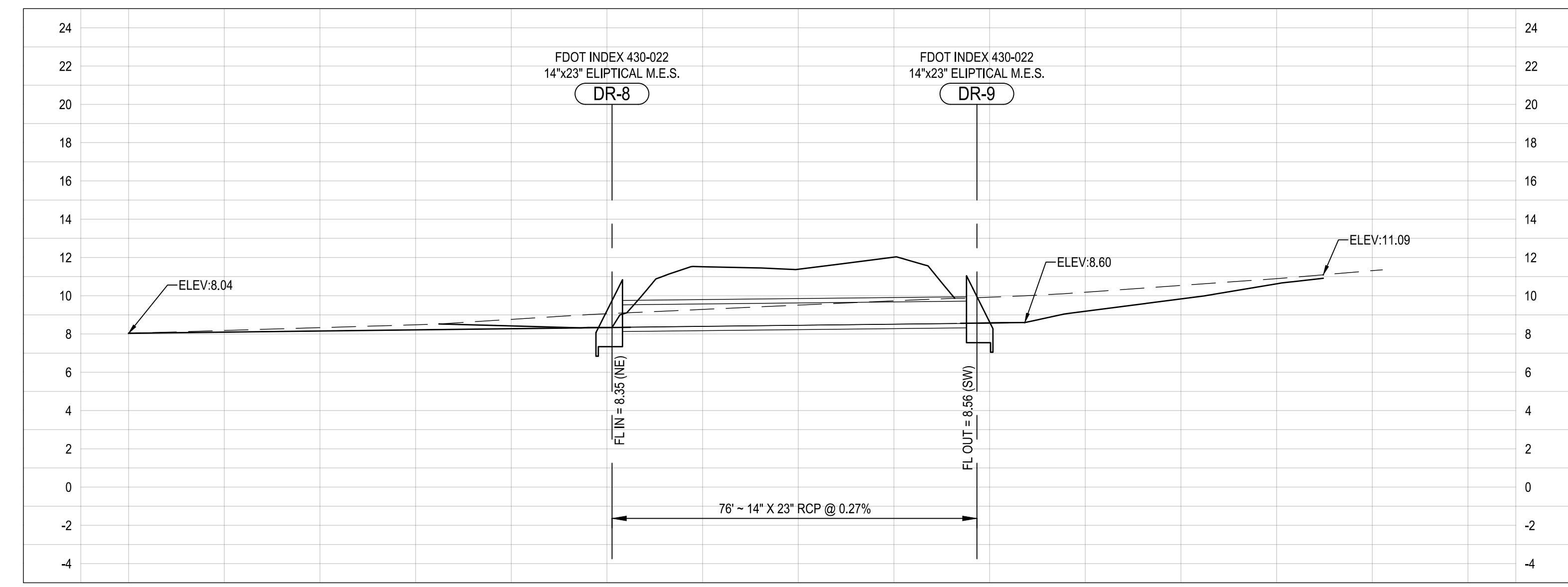
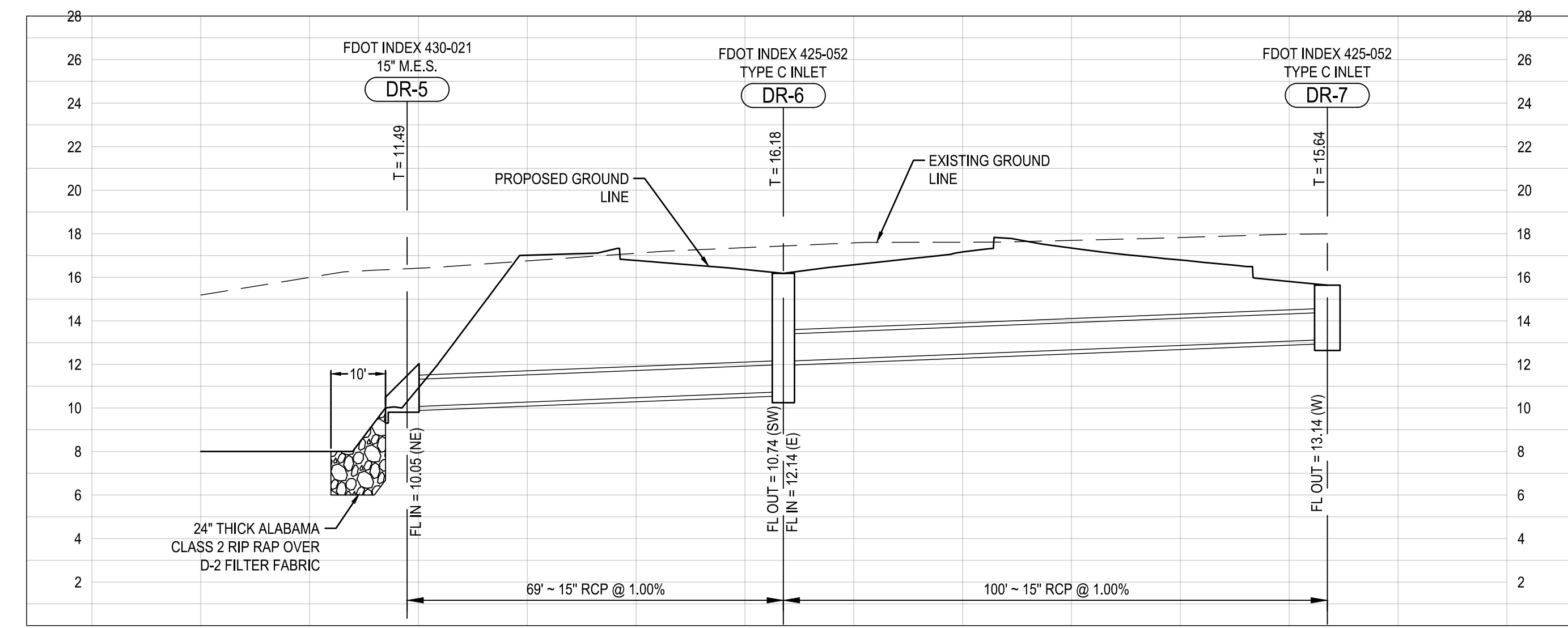
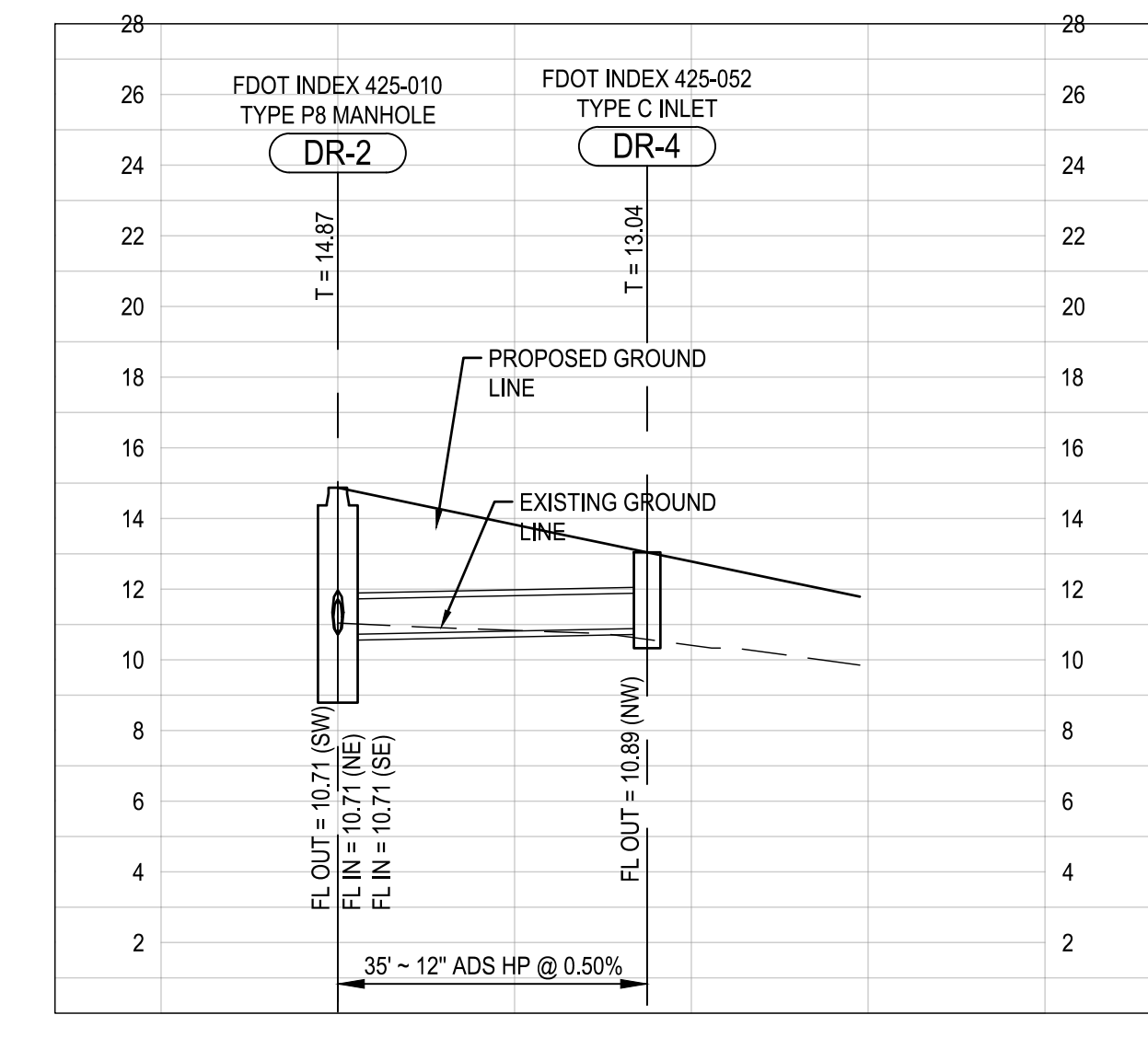
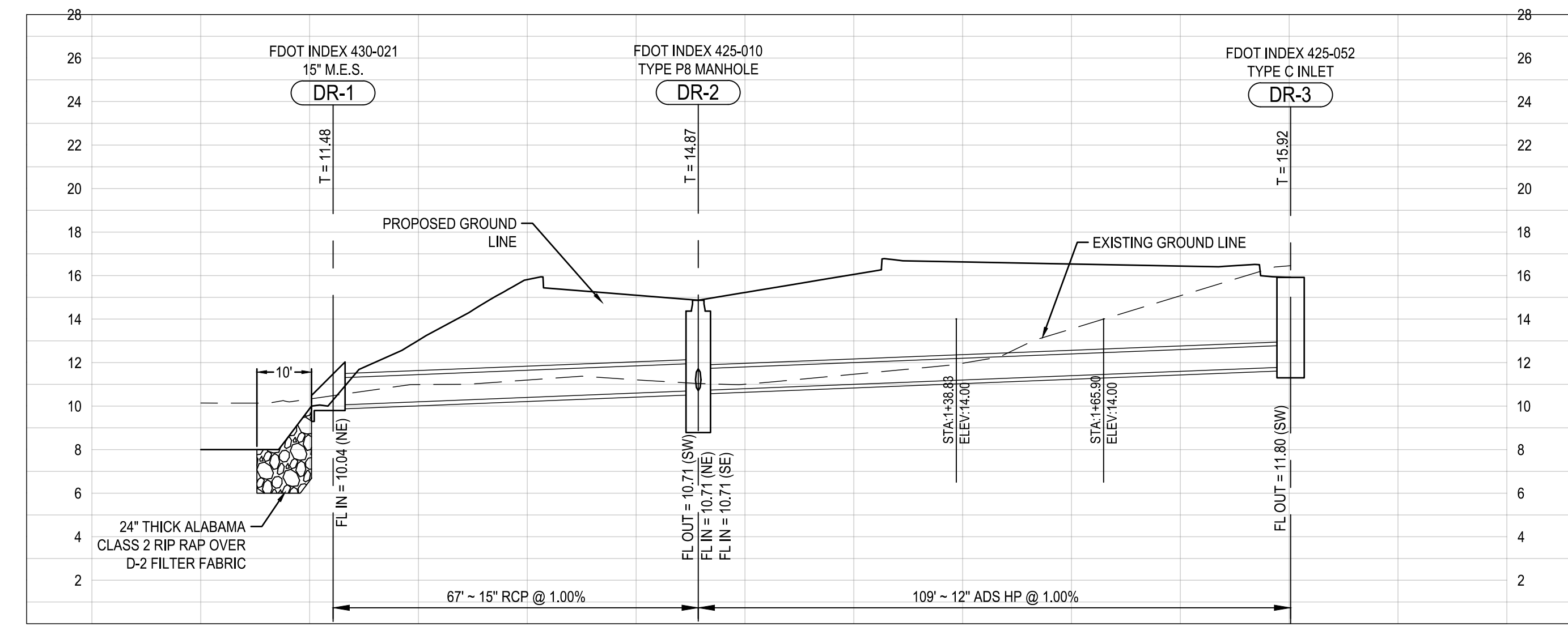
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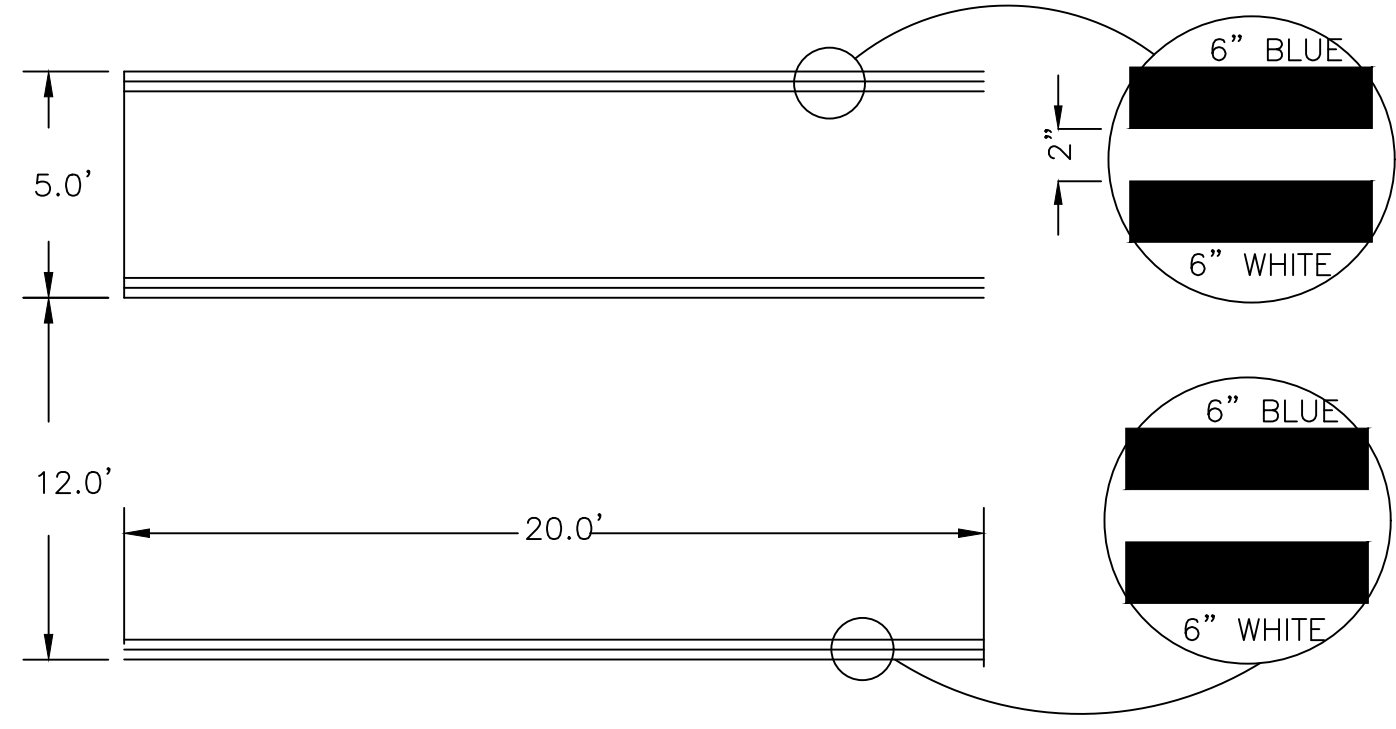
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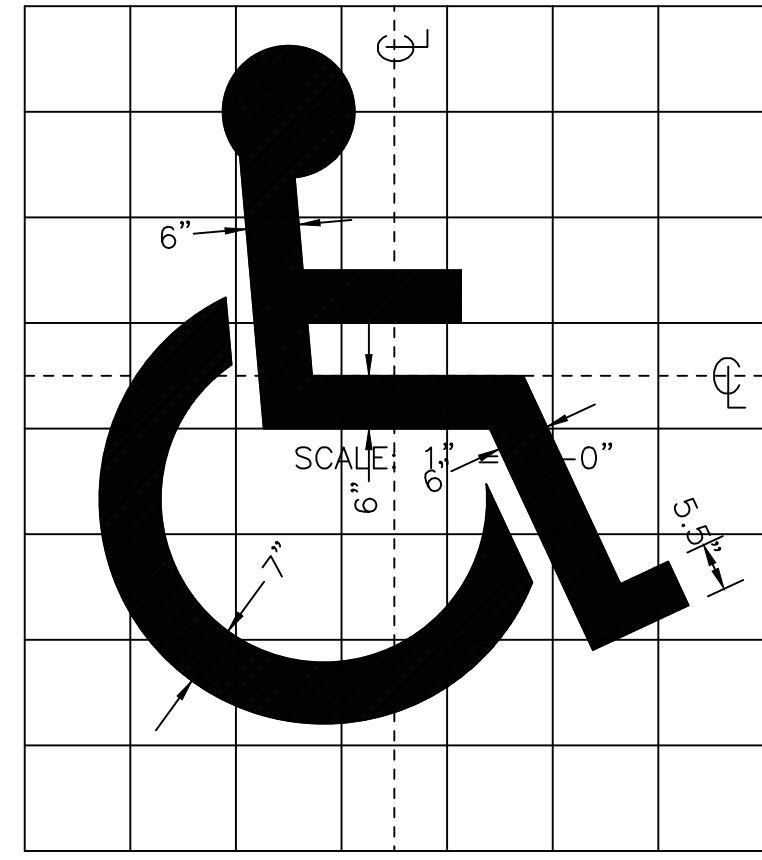
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HANDICAPPED PAVEMENT MARKING

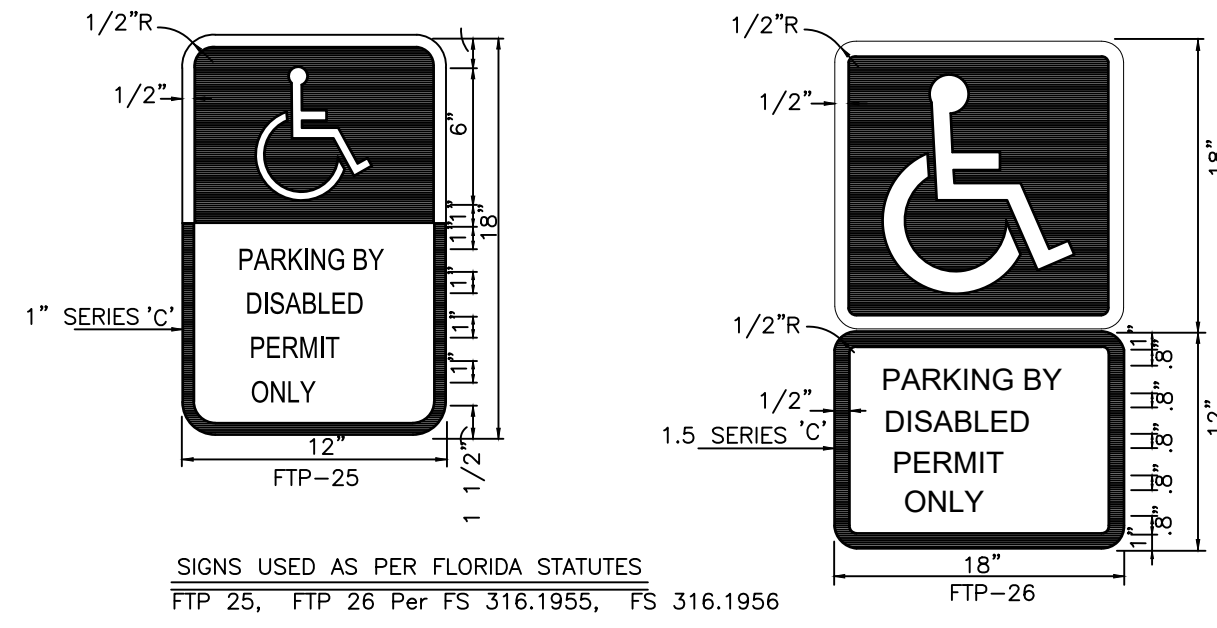
IN ACCORDANCE W/F.D.O.T. STANDARD INDEX #17346 SHEET 9 OF 9
N.T.S.

"USE OF PAVEMENT SYMBOL IN HANDICAPPED PARKING SPACES IS OPTIONAL. WHEN USED THE SYMBOL SHALL BE 3 TO 5 FEET HIGH AND WHITE IN COLOR." (QUOTED FROM SECTION 4.6 OF FLORIDA ACCESSIBILITY BUILDING CODE.)

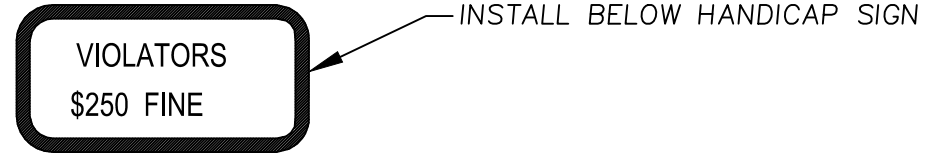


SYMBOL SHALL BE PAINTED WHITE AND TO THE DIMENSIONS SHOWN. IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #17346 (12 OF 14).

GRID SHOWN TO INDICATE PROPORTIONS ONLY. DO NOT PAINT ON PAVEMENT.



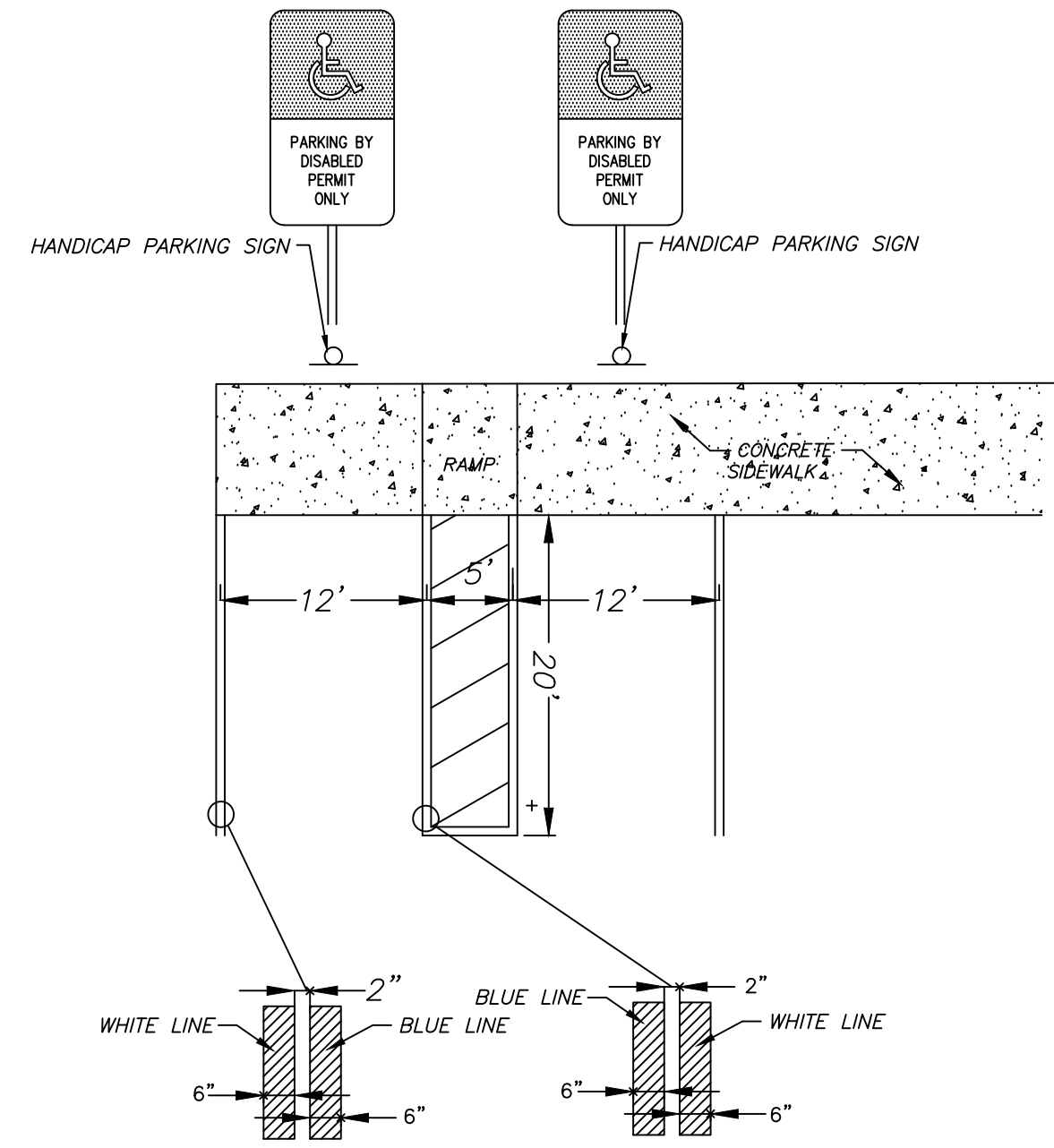
SIGNS USED AS PER FLORIDA STATUTES
FTP 25, FTP 26 Per FS 316.1955, FS 316.1956



- NOTES:
1. Top portion of FTP 25 & 26 shall have a reflective blue background with white reflective symbol and border.
 2. Bottom portion shall have a reflective white background with black opaque legend and border.
 3. FTP 25 & 26 may be fabricated on one panel or two.
 4. FTP 25 may be substituted for the FTP 26 in areas where space is limited.
 5. Signs are to be mounted at standard height. (7' from pavement to bottom of sign).

HANDICAPPED PARKING SIGN DETAIL

N.T.S.



HANDICAP PARKING DETAIL

N.T.S.

GENERAL NOTES:

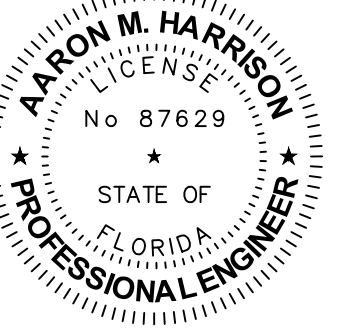
- 1.) THE ACCESSIBILITY REQUIREMENTS MANUAL BY THE FLORIDA BOARD OF BUILDING CODES AND STANDARDS WAS REFERENCED FOR THIS HANDICAP ACCESS DESIGN.
- 2.) THE MAXIMUM SLOPE FOR A CURB RAMP IS 1:12 OR 8%.
- 3.) CURB RAMP TO BE CONSTRUCTED PER FDOT INDEX 522-002.



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NO.	DESCRIPTION	DATE

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TITLE
**CONSTRUCTION
DETAILS**

PROJECT NO. _____ 50144269

C10.2

SHEET NO.

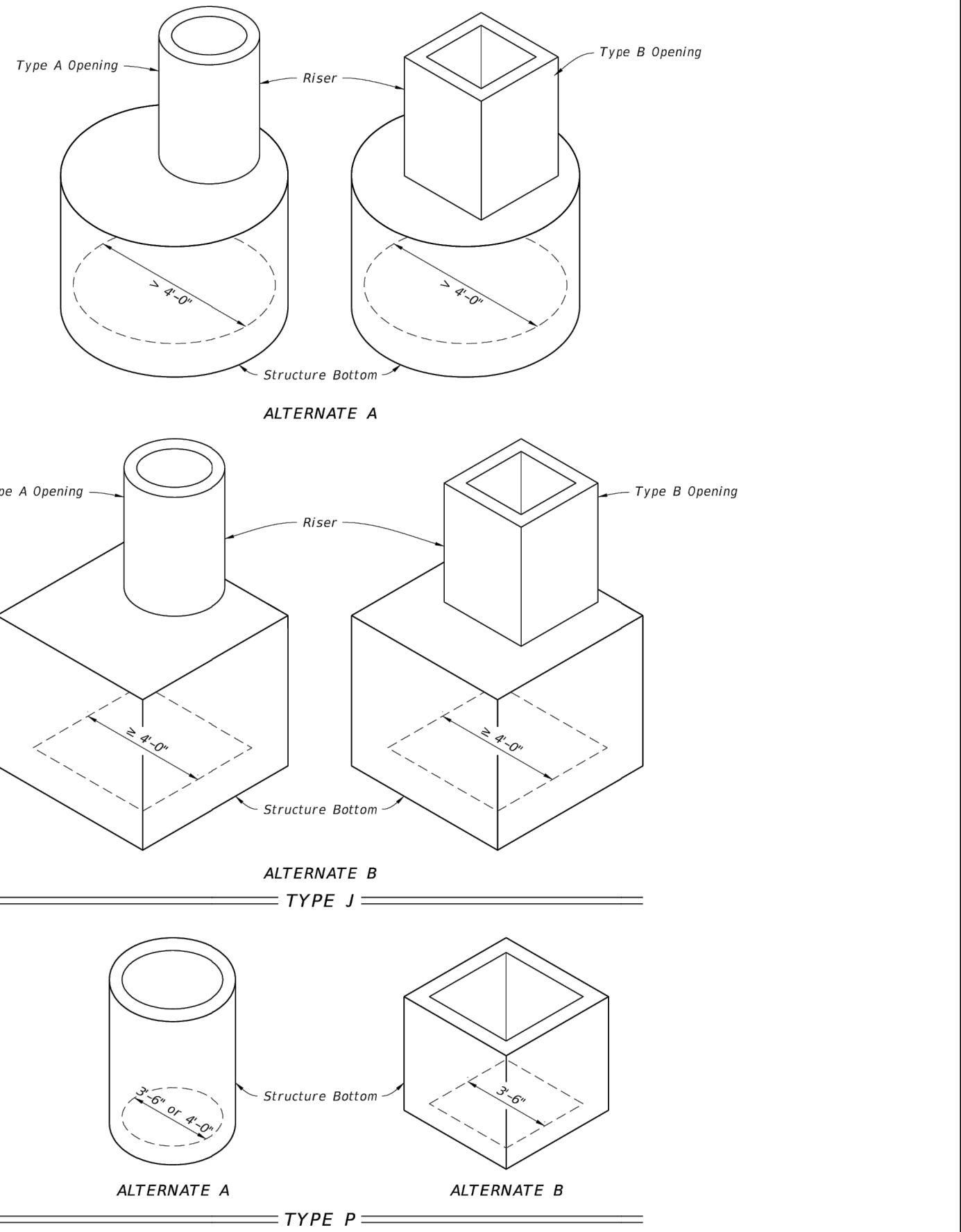
GENERAL NOTES:

1. Work this Index with Specifications 425 and Index 425-001.
2. Type P standard structure bottoms are 4'-0" diameter and smaller (Alt. A) and 3'-6" square (Alt. B). Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
3. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Construct precast and rectangular structures (Alt. B) with reinforced concrete only.
4. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (See Table 1).
5. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. Use Class II concrete, except when Class IV concrete is shown in the Plans.
6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet.
7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and pipes.
8. Use straight embedment reinforcement in top and bottom slabs, except when ACI hooks are specifically required.
9. Construct corner fillets as shown for rectangular structures used with circular risers and inlet throats, and when used on skew with rectangular risers, inlets, and inlet throats. Construct fillets in the top slab of the Alt. A structure bottoms when used with Type B risers. Reinforce each fillet with two #5 bars.
10. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Furnish such larger units at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This Note applies to this Index only.

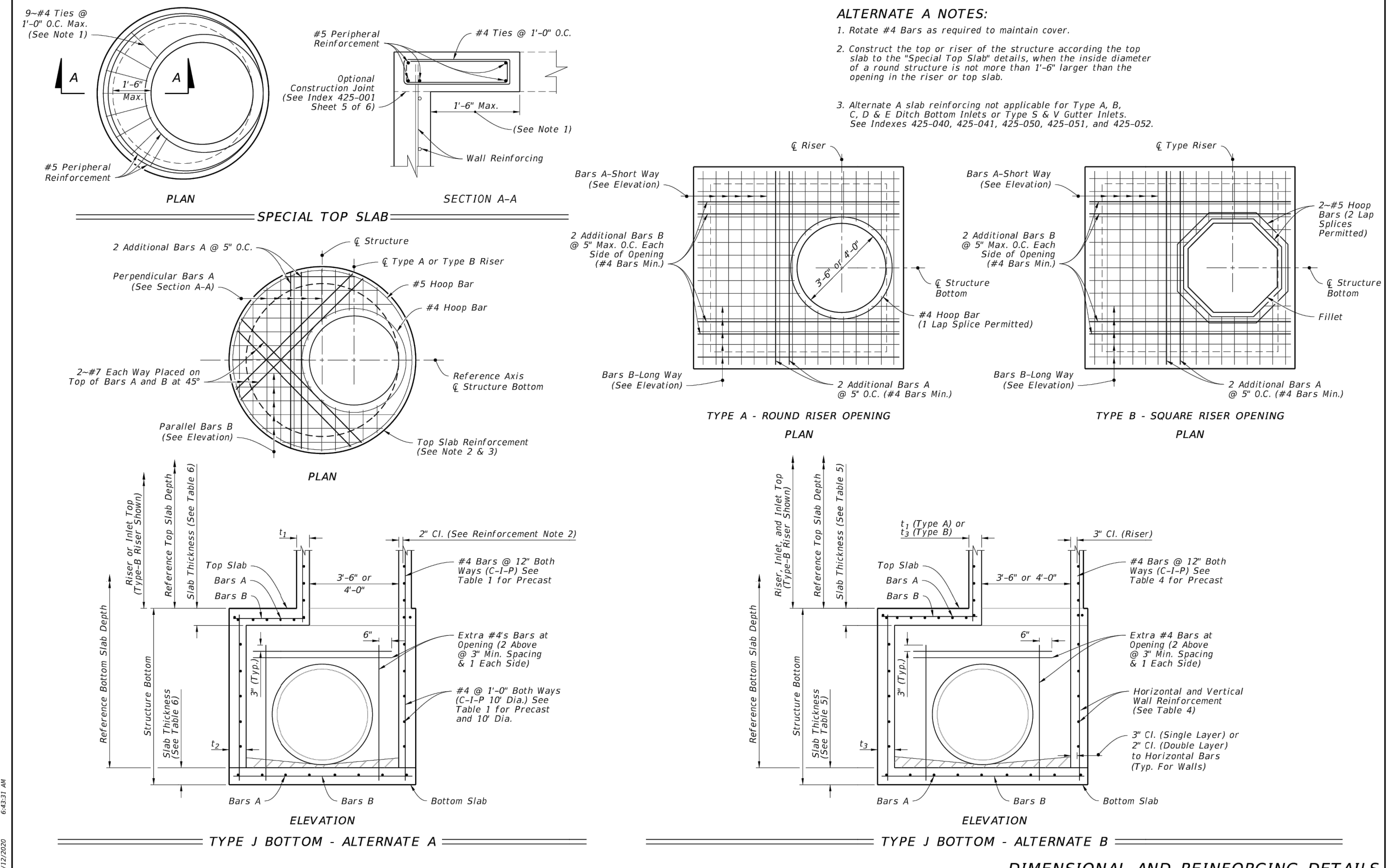
REINFORCEMENT NOTES:

1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
2. Provide a minimum 2" clear cover for all reinforcement unless otherwise noted and except for 36" diameter ASTM C478 units.
3. Additional bars used to restrain hole formers for precast structures with grouted pipe connections may be left flush with the hole surface.
4. Cut or bend reinforcement at pipe openings to maintain cover.
5. Remove exposed ends of reinforcing at precast pipe openings and grouted joints to 1" below the concrete surface and seal with a Type F Epoxy meeting the requirements of Specification 926.
6. Equivalent area smooth or deformed welded wire reinforcement may be substituted in accordance with Index 425-001.

Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Tables 1, 2, 3, and 4
4	Tables 5 and 6



LAST REVISION	DESCRIPTION	FDOT	FY 2021-22 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/20					425-010	1 of 4



LAST REVISION	DESCRIPTION	FDOT	FY 2021-22 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/20					425-010	2 of 4

TABLE 1 - ALTERNATE A - STRUCTURES

TYPE	STRUCTURE DIAMETER (ft)	CAST-IN-PLACE ITEMS			PRECAST ITEMS		
		RISER BOTTOM (in.)	AS (in.)	A _v (in. ²)	ASTM C478 (in.)	A _v (in. ²)	A _v (in. ²)
P	3'-6"	6	8	0.20	6	8	0.20
P	4'-0"	6	8	0.20	6	8	0.20
J	5'-0"	8	10	0.20	8	10	0.20
J	6'-0"	8	10	0.20	8	10	0.20
J	7'-0"	8	10	0.20	8	10	0.20
J	8'-0"	8	10	0.20	8	10	0.20
J	10'-0"	10	12	0.40	10	12	0.40
J	12'-0"	10	12	0.40	10	12	0.40

TABLE 2 - ALTERNATE B SQUARE AND RECTANGULAR STRUCTURES

TYPE	WALL LENGTH (ft)	MAX. DEPTH (ft)	CAST-IN-PLACE ITEMS			PRECAST (in.)
			AS (in.)	A _v (in. ²)	A _v (in. ²)	
P	3'-6"	40	6	8	0.20	6
J	4'-0"	40	6	8	0.20	6
J	5'-0"	40	6	8	0.20	6
J	6'-0"	40	6	8	0.20	6
J	7'-0"	40	6	8	0.20	6
J	8'-0"	40	6	8	0.20	6
J	10'-0"	40	10	10	0.20	10
J	16'-0"	35	10	10	0.20	10
J	20'-0"	35	10	10	0.20	10
J	20'-0"	30	10	10	0.20	10

TABLE 4 - WALL DESIGNS - RECTANGULAR STRUCTURES

WALL DEPTH	SCHEDULE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	WALL THICKNESS
≥1.17' - 40"	A12	≥1.17' < 10"	B10 B10 8"	6"
26' - 40"	D7	10' < 18"	B5.5 B5.5 6"	6"
		18' < 29"	C6.5 C6.5 6"	6"
		29' - 40"	C3.5 C3.5 6"	6"

TABLE 5 - SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES

SLAB DEPTH	SCHEDULE	SLAB DEPTH (ft)	SCHEDULE	SLAB DEPTH (ft)	SCHEDULE
≥0.5' < 8"	B10	≥0.5' < 26"	B10	≥0.5' < 13"	C6.5
8' < 13"	B5.5	24' - 40"	B5.5	13' < 23"	D7
13' < 31"	C6.5			18' < 27"	E5
31' - 40"	D7			27' < 33"	F5

TABLE 6 - SLAB DESIGNS ROUND STRUCTURES

SLAB DEPTH	SLAB THICKNESS	REINFORCING (2-WAY) SCHEDULE
2'-15"	6"	Precast C6.5
0.5' < 30"	8"	A6
30' - 40"	8"	B5.5

TABLE 3 - REINFORCING SCHEDULE

SCHEDULE	GRADE 60 BARS OR 65 KSI & 70 KSI WELDED WIRE REINFORCING			MAXIMUM SPACING			
	GRADE 60 AREA (in. ² /ft)	GR 60 BARS (in.)	65 KSI (in.)	70 KSI (in.)	GRADE 60 BARS (in.)	65 KSI (in.)	70 KSI (in.)
A12	0.20	12	8	8			
A6	0.20	6	5	4 1/2			
B10	0.24	10	8	7 1/2			
B5.5	0.24	10	5	4			
C6.5	0.37	12	6	5			
C3.5	0.37	12	3	2 1/2			
D7	0.53	7	6	5			
D4.5	0.53	4 1/2	4	3 1/2			
E5	0.73	5	4	4			
E3	0.73	3	3	3			
F5	1.06	5	4	4			
F3.5	1.06	3 1/2	3	3			
G5	1.45	5	4	4			
G3.5	1.45	3 1/2	3	3			
H4	1.75	4	3	3			

TABLE 4 NOTES:

1. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
2. Wall height is the distance between top of lower slab to bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 5', or 10' for wall lengths exceeding 12'.
3. Wall lengths exceeding 6'-0" require two layers of reinforcing. (See Table 4 with 2' of cover from the horizontal bars to the inside and outside faces for each layer.)
4. Wall lengths exceeding the dimensions or depths shown in Table 4, or 12'-0" diameter require a special design.
5. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.

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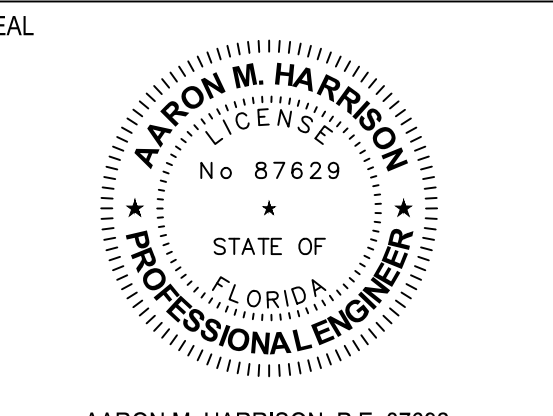
TABLE 5 NOTES:

1. Slab depth is measured from finished grade to top of slab.
2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
3. Bottom slabs for precast 3'-6" x 3'-6" rectangular structures at 15' depth or less, may be 6" thick.
4. Slab depth is measured from finished grade to top of slab.
5. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

LAST REVISION	DESCRIPTION	FDOT	FY 2021-22 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX	SHEET
11/01/20					425-010	4 of 4

Dewberry
877 CR 393 North
Santa Rosa Beach, FL 32459
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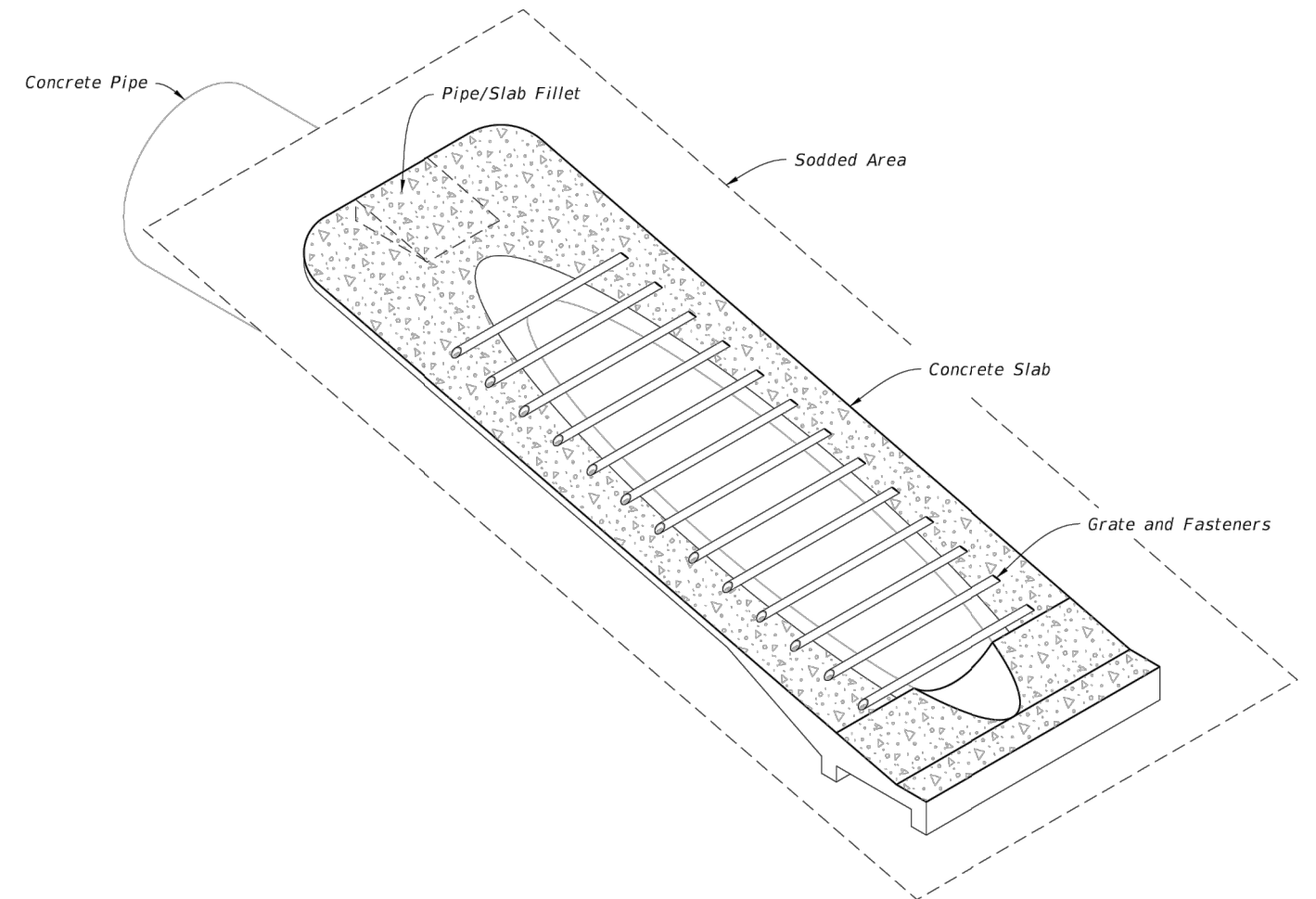
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APPROVED BY: AMH
CHECKED BY: CLK
DATE: JULY 2023
TITLE: CONSTRUCTION DETAILS

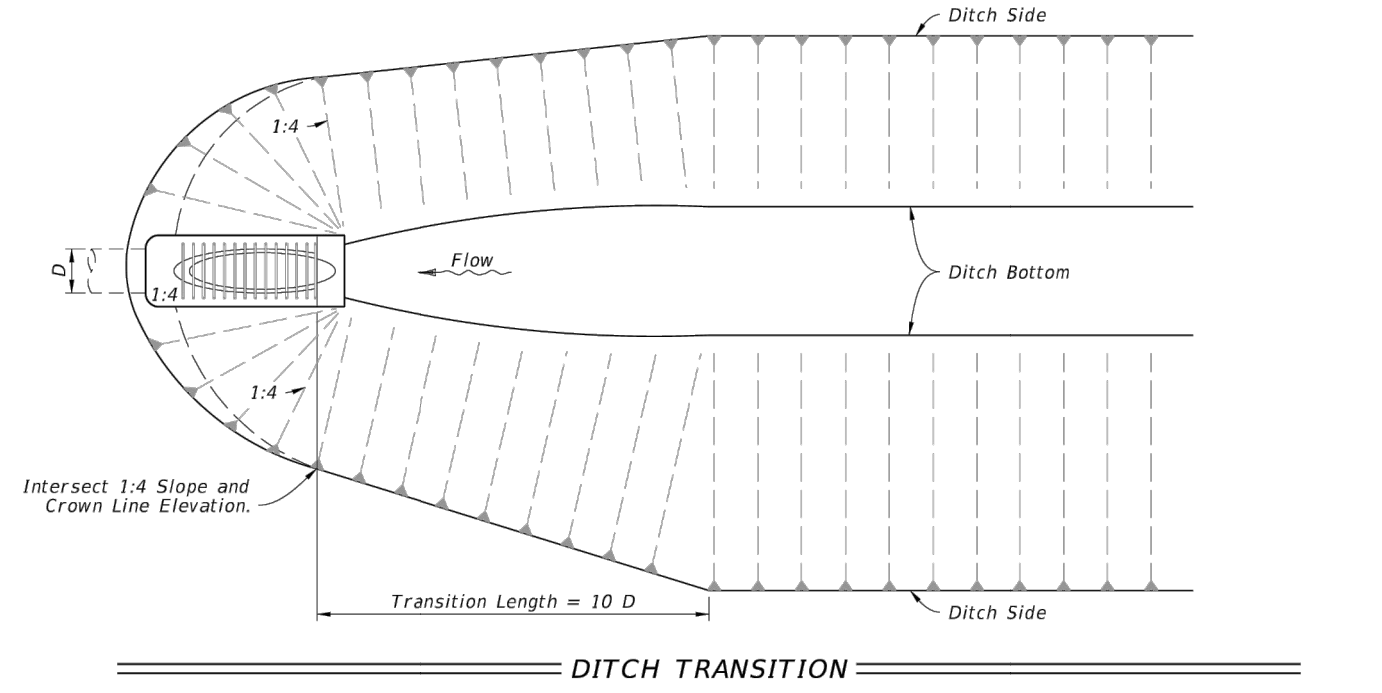
PROJECT NO. 50144269
SHEET NO. C10.3

GENERAL NOTES:

- Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of side drain pipe; corrugated steel pipe mitered end sections may be used with any type of side drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of side drain pipe except steel pipe. When bituminous coated metal pipe is specified for side drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the side drain pipe, construct a concrete jacket in accordance with Index 430-001.
- Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinylchloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE, PVC, SRPE, or PVC pipe. When used in conjunction with a concrete mitered end section, construct concrete jacket in accordance with Index 430-001.
- Use class NS concrete cast-in-place reinforced slabs for all cross drain pipes.
- Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
- Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
- When existing multiple side drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.
- Saddle Slope:
 - 1:4 Miter - Slope to $\frac{1}{4}$ of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter. Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger. Slope to the span line for pipe arch 28"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.
 - 1:2 Miter - Slope to $\frac{1}{2}$ of pipe for round pipes less than or equal to 18" diameter and 1:2 for round pipes greater than or equal to 24" diameter. Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x53" or larger. Slope 1:1 for all pipe arch sizes.
- Quantities shown are for estimating purposes only.



SIDEDRAIN MITERED END SECTION (Concrete Pipe Shown, Corrugated Metal Pipe Similar)



SIDE DRAIN MITERED END SECTION

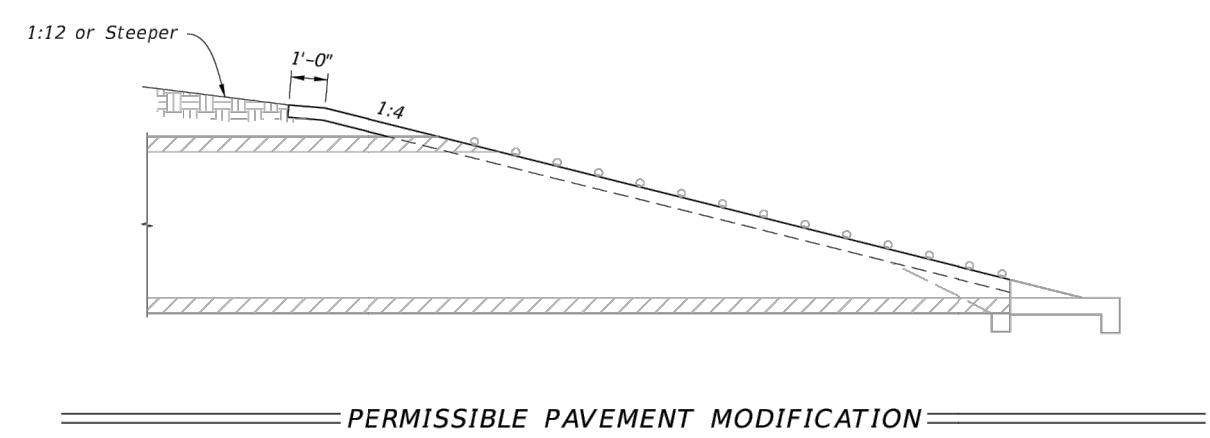
TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Single and Multiple Concrete Pipe
3	Concrete Pipe Dimensions and Quantities and Pavement Modifications
4	Single and Multiple Corrugated Metal Pipe
5	Corrugated Metal Dimensions and Quantities
6	Concrete Pipe Connection and Corrugated Metal Pipe Anchor Details
7	Fastener Unit and Grate Details

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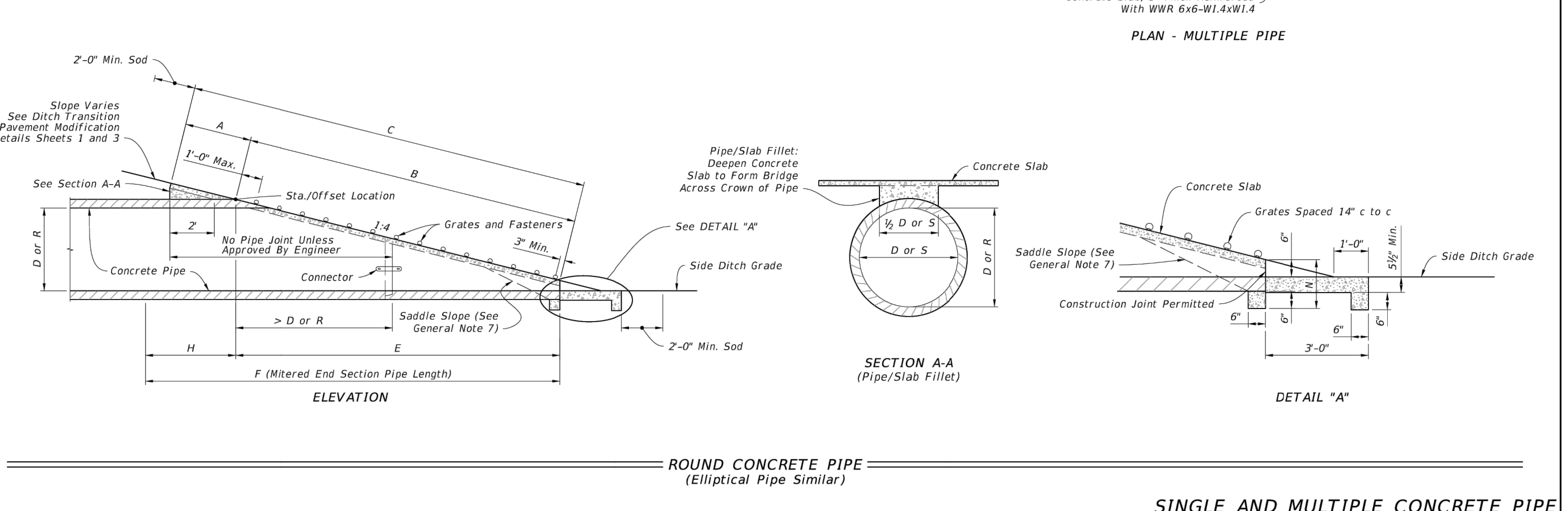
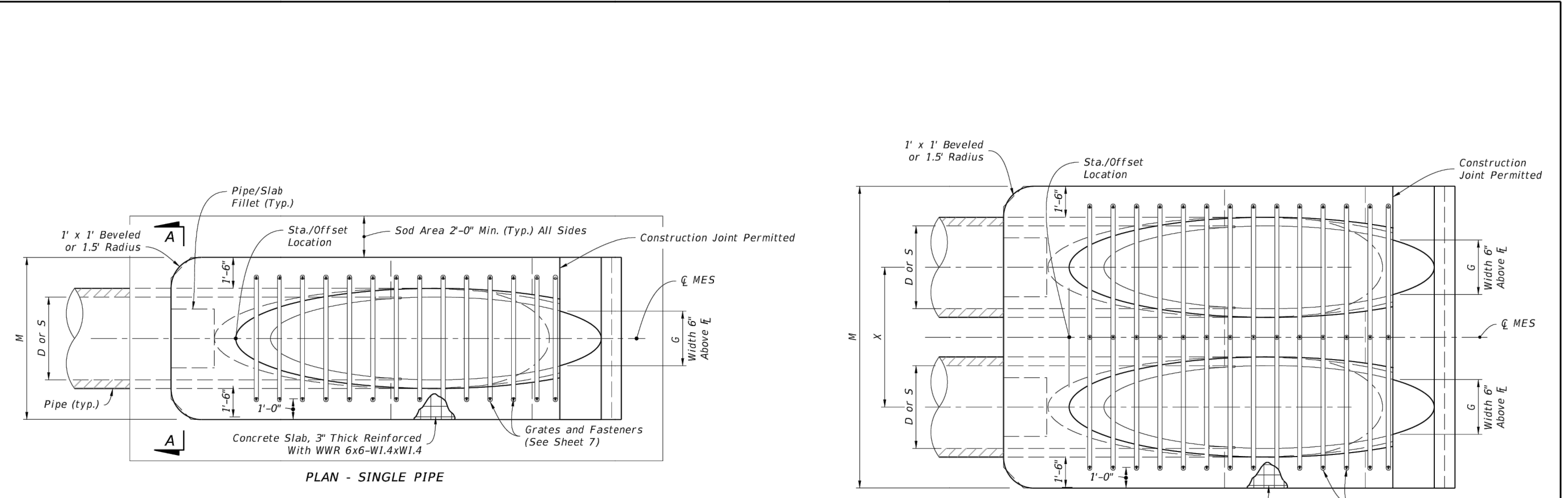
Pipe Dia D	Rise R	Span S	X	A	B	C	E	F	G	H	M				N				O				P							
											Single	Double	Triple	Quad	Single	Double	Triple	Quad	Single	Double	Triple	Quad	Single	Double	Triple	Quad				
15"	2'-0"	2'-0"	2.27	4.09	6.36	4.03	8'	1.22	4.0	4.63	7.21	9.79	12.37	1.19	0.85	1.28	1.71	2.17	9	10	11	12	0.76	1.16	1.54	1.94	8	10	11	12
18"	2'-10"	2'-38"	5.12	7.48	5.07	9'	1.41	4.0	4.97	7.75	10.58	13.42	1.21	0.95	1.28	1.71	2.17	9	10	12	13	0.85	1.28	1.71	2.17	9	10	12	13	
24"	3'-0"	2'-53"	7.18	9.71	7.05	11'	1.73	4.0	5.50	8.62	12.33	15.75	1.25	1.00	1.40	1.90	2.44	10	12	14	15	1.00	1.40	1.90	2.44	10	12	14	15	
30"	4'-0"	3'-7"	9.25	11.99	9.07	13'	2.00	4.0	6.08	10.33	14.58	18.83	1.29	1.10	1.50	2.00	2.54	11	13	15	17	1.10	1.50	2.00	2.54	11	13	15	17	
36"	5'-0"	4'-0"	11.32	14.18	11.03	15'	2.24	4.0	6.60	11.99	16.83	21.92	1.33	1.15	1.60	2.10	2.64	12	14	16	18	1.15	1.60	2.10	2.64	12	14	16	18	
42"	6'-0"	5'-0"	13.37	16.42	13.03	17'	2.45	4.0	7.25	13.25	19.25	25.25	1.38	1.20	1.65	2.15	2.68	13	15	17	19	1.20	1.65	2.15	2.68	13	15	17	19	
48"	6'-6"	5'-6"	15.43	18.65	15.03	19'	2.65	4.0	7.85	14.58	21.33	28.08	1.42	1.25	1.70	2.20	2.72	14	16	18	20	1.25	1.70	2.20	2.72	14	16	18	20	
54"	7'-0"	6'-0"	17.49	20.88	17.03	21'	2.83	4.0	8.42	16.08	23.75	31.42	1.46	1.30	1.75	2.25	2.75	15	17	19	21	1.30	1.75	2.25	2.75	15	17	19	21	
60"	8'-0"	7'-0"	19.55	23.11	19.03	23'	3.00	4.0	9.00	17.50	26.00	34.50	1.50	1.35	1.80	2.30	2.80	16	18	20	22	1.35	1.80	2.30	2.80	16	18	20	22	
12"	1'-0"	1'-0"	2.38	3.06	3.42	3.07	5'	1.50	2.0	4.92	7.75	10.58	13.42	1.21	0.88	1.04	1.41	1.77	8	9	11	12	0.76	1.19	1.63	2.05	9	10	12	13
14"	2'-0"	1'-4"	2.44	3.25	6.19	3.70	6'	1.90	2.7	5.38	8.71	12.04	15.38	1.23	0.95	1.52	2.09	2.65	10	12	13	15	0.95	1.52	2.09	2.65	10	12	13	15
16"	3'-0"	2'-0"	2.62	5.47	8.09	5.36	8'	2.37	2.6	6.04	10.04	14.04	18.04	1.27	1.00	1.18	1.85	2.44	11	13	15	18	1.00	1.18	1.85	2.44	11	13	15	18
18"	4'-0"	2'-9"	2.79	7.18	9.90	7.07	10'	2.85	3.0	6.79	11.99	16.79	21.79	1.31	1.10	1.41	2.42	3.44	12	14	16	18	1.10	1.41	2.42	3.44	12	14	16	18
20"	4'-6"	3'-11"	3.05	8.90	11.99	8.76	12'	3.19	3.7	7.50	13.42	19.33	25.25	1.38	1.15	1.41	2.42	3.44	12	14	16	18	1.15	1.41	2.42	3.44	12	14	16	18
24"	5'-0"	4'-0"	3.22	10.62	13.84	10.38	13'	3.57	4.0	8.28	15.28	22.25	29.25	1.42	1.20	1.63	2.62	4.22	13	15	17	20	1.20	1.63	2.62	4.22	13	15	17	20
28"	6'-0"	5'-0"	3.39	11.99	15.38	11.70	15'	3.95	3.7	8.92	16.75	24.58	32.42	1.46	1.25	1.83	3.36	4.89	14	16	18	21	1.25	1.83	3.36	4.89	14	16	18	21
32"	6'-6"	5'-6"	3.56	13.71	17.27	13.36	17'	4.28	3.6	9.67	18.58	27.50	36.42	1.50	1.30	1.99	3.95	5.80	15	17	19	22	1.30	1.99	3.95	5.80	15	17	19	22
36"	7'-0"	6'-0"	3.73	15.43	19.16	15.03	19'	4.58	4.0	10.42	20.33	30.25	40.17	1.54	1.35	2.09	4.44	6.43	16	18	20	23	1.35	2.09	4.44	6.43	16	18	20	23
40"	7'-6"	6'-6"	3.91	17.15	21.06	16.70	20'	4.77	3.7	11.08	21.75	32.42	43.08	1.58	1.40	2.18	5.09	7.56	17	19	21	24	1.40	2.18	5.09	7.56	17	19	21	24
44"	8'-0"	7'-0"	4.08	18.87	22.99	18.36	22'	5.01	3.6	11.83	23.50	35.17	46.83	1.63	1.45	2.31	5.77	8.64	18	20	22	25	1.45	2.31	5.77	8.64	18	20	22	25

0.6-25 Dimensions permitted to allow use of 8' standard pipe lengths.
 >10.10' Dimensions permitted to allow use of 12' standard pipe lengths.



CONCRETE PIPE DIMENSIONS AND QUANTITIES AND PERMISSIBLE PAVEMENT MODIFICATION

LAST REVISION 11/01/19	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	SIDE DRAIN MITERED END SECTION	INDEX 430-022	SHEET 3 of 7
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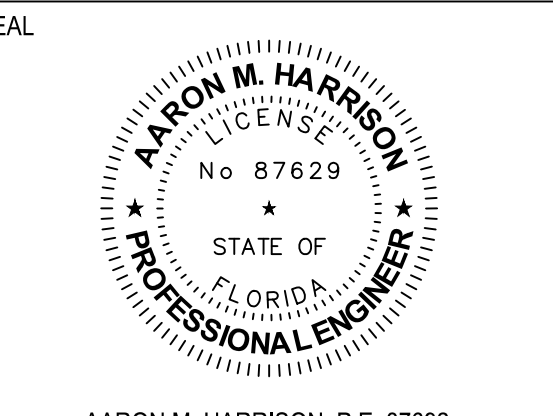
ROUND CONCRETE PIPE (Elliptical Pipe Similar) SINGLE AND MULTIPLE CONCRETE PIPE

LAST REVISION 11/01/18	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	SIDE DRAIN MITERED END SECTION	INDEX 430-022	SHEET 2 of 7
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**CONSTRUCTION
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SHEET NO. **C10.4**

