



**TOWN OF DIGHTON**  
PLANNING BOARD  
979 SOMERSET AVENUE  
DIGHTON, MA 02715  
Tel: (508) 669-6431, Ext. 114  
Fax: (508) 669-4509

Jeff Carvalho, Chairman  
Robert J. Woods, Vice Chairman  
Joseph Figueiredo, Clerk  
Christopher Cunha, Member  
Daniel Higgins, Member

**TOWN OF DIGHTON**  
**NOTICE OF PUBLIC HEARING**

In accordance with the provisions of the MGL Chapter 40A, Section 9, the Dighton Planning Board will hold a public hearing on January 15, 2025 at 7:00 PM in the Old Town Hall, 1111 Somerset Avenue, Dighton on the application of T&A Realty Trust, Antonio Almeida, Trustee requesting a Special Permit pursuant to Sections 4300 and 5300 of the Dighton Zoning Bylaws and a Definitive Subdivision pursuant to the Dighton Subdivision Control By Law, for property located at 0 Williams Street in Dighton, MA (Assessor's Map 21 Lot 20) in the Residential/Agricultural Zoning District. The applicant proposes a 17-lot subdivision consisting of 80.434 acres entitled Almeida Ridge under the Conservation Subdivision Bylaw.

Copies of the application and plan are available at the Planning Department for public review may be requested by email at [keasterday@dighton-ma.gov](mailto:keasterday@dighton-ma.gov) or by visiting the Town of Dighton Planning Board's website. Any person wishing to be heard on the above application should appear at the time and place designated for the public hearing.

DIGHTON PLANNING BOARD  
Jeff Carvalho, Chairman

RECEIVED  
Town Clerk-Dighton, MA

NOV 25 2024

Time: 12:19 pm  
By: SC



09-24

## **TOWN OF DIGHTON**

**PLANNING BOARD  
979 SOMERSET AVENUE  
DIGHTON, MA 02715**

**PETITIONER:**

NAME: T & A Realty Trust, Antonio Almeida, Trustee  
ADDRESS: 851 State Road, Westport, MA 02790

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**LOCATION (from Assessors' Office)**

PLAT AND Map 21, Lot 20  
LOT NOS.

PRESENT ZONING	Resident + Agriculture	First Record Date Planning Board Use Only
DATE OF THIS DOCUMENT	November 18, 2024	FILE: TITLE:

## APPLICATION FOR SPECIAL PERMIT

File two (2) completed copies of this application. One (1) copy with the Planning Board and one (1) copy with the Town Clerk in accordance with the Zoning Bylaws. The filing fee as calculated by Appendix A, made payable to the Town of Dighton.

To the Dighton Planning Board:

PROJECT NAME: Almeida Ridge  
SUBJECT PROPERTY ADDRESS: 0 Williams Street  
ASSESSOR'S MAP/LOT(s): Map 21, Lot 20  
ALL APPLICABLE ZONING DISTRICT:  
TITLE OF PLAN: Definitive Subdivision Almeida Ridge, Dighton, MA  
PLAN DATED: Nov. 15, 2024  
DESCRIBE WHAT IS PROPOSED FOR THIS PROPERTY:  
A 17 lot Conservation Subdivision

STATE THE EXACT NATURE OF ACTION OR RELIEF REQUESTED BY THIS APPLICATION AND CITE THE APPLICABLE BY-LAW(S) AND/OR BY-LAW SECTION(S):

## Approval of a Conservation Subdivision in accordance with Section 4300 of the Zoning Bylaw

DESCRIBE HOW THIS APPLICATION MEETS THE CRITERIA FOR A SPECIAL PERMIT AS DESCRIBED IN THE APPLICABLE SECTION(S) OF THE DIGTON ZONING BY LAWS:

The proposed subdivision is more than 5 lots and is located in the residence district.

THE UNDERSIGNED HEREBY CERTIFIES THAT THE INFORMATION ON THIS APPLICATION AND PLANS SUBMITTED HEREWITH IS CORRECT, AND THAT THE APPLICATION COMPLIES WITH ALL APPLICABLE PROVISIONS OF STATUTES, REGULATIONS AND BYLAWS TO THE BEST OF HIS/HER KNOWLEDGE.

THE ABOVE IS SUBSCRIBED TO AN EXECUTED BY THE UNDERSIGNED UNDER THE PENALTIES OF PERJURY IN ACCORDANCE WITH M.G.L. Ch. 268, §1-A.

Received by the Planning Board:

Date: RECEIVED

Time: \_\_\_\_\_

Signature: NOV 20 2024

By: Dighton Planning Board

Received by the Town Clerk:

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Signature: \_\_\_\_\_

Applicant's Name

Applicant's Address

T & A Realty Trust

851 State Road

Westport, MA 02790

508-617-3099

Applicant's Phone #

Signature: 

Owner's name, address and signature for authorization  
(if other than applicant)

Owner's Name

Same

Owner's Address

Owner's Phone#

Signature: \_\_\_\_\_

Checklist of items to be submitted with application.

1.  Application Form (x2)
2.  Application Fee (please refer to Fee Schedule)
3.  Project Review Fee (please refer to Fee Schedule) & Completed W-9
4.  Tax Status Application Form
5.  Plans (See applicable Zoning Bylaws for Specific Requirements)
6.  Certified Abutters List
7.  Completed Receipt for Special Permit Application/Site Plan Review (within 3 working days of the submittal date)

*will be  
submitted  
w/Form M*

**RECEIVED**  
Town Clerk-Dighton, MA

NOV 25 2024

Time: 12:18 PM  
By: SC



# TOWN OF DIGHTON

PLANNING BOARD  
979 SOMERSET AVENUE  
DIGHTON, MA 02715

09-24

PETITIONER:

NAME: T & A Realty Trust, Antonio Almeida Trustee  
ADDRESS: 851 State Road, Westport, MA 02790

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LOCATION (from Assessors' Office)

PLAT AND Map 21, Lot 20  
LOT NOS.

PRESENT		First Record Date
ZONING	Resident + Agriculture	Planning Board Use Only
DATE OF THIS DOCUMENT	November 18, 2024	File: Title:

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## FORM C APPLICATION FOR APPROVAL OF DEFINITIVE SUDIVISION PLAN

File three (3) completed copies of this application. One (1) copy with the Planning Board, one (1) copy with the Town Clerk and one (1) copy with the Board of Health in accordance with the Rules and Regulations Governing Subdivisions.

To the Dighton Planning Board:

The undersigned, being the applicant as defined under Chapter 41, §81L, for approval of a proposed subdivision shown on a plan entitled: Definitive Subdivision Almeida Ridge by River Hawk Environmental, LLC dated Nov. 15, 2024 and described as follows: Conservation Subdivision located 0 Williams Street, Dighton, MA number of lots proposed 17, total acreage of tract 80.434 hereby submits said plan as a **DEFINITIVE** plan in accordance with the Rules and Regulations of the Dighton Planning Board and makes application to the Board for approval of said plan.

The undersigned's title to said land is derived from QuitClaim Deed from M.R. Souza + Bros. Limited Partnership by deed dated 12/30/2014 and recorded in the Bristol County District Registry of Deeds Book 22063, Page 346, registered in the Bristol County Registry District of the Land Court, Certificate of Title No. N/A; and said land is free of encumbrances except for the following: N/A

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Said plan has ( ) has not ( X ) evolved from a preliminary plan submitted to the Board on \_\_\_\_\_, 20\_\_\_\_ and approved (with modifications) ( ) (disapproved) ( ) on \_\_\_\_\_, 20\_\_\_\_.

The undersigned hereby applies for the approval of said **DEFINITIVE** plan by the Board, in belief that the plan conforms to the Board's Rules and Regulations.

Received by the Planning Board RECEIVED  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_  
Payment Received: NOV 20 2024  
Signature: \_\_\_\_\_  
By: Dighton Planning Board

Received by the Town Clerk  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_  
Payment Received: \_\_\_\_\_  
Signature: \_\_\_\_\_

Received by the Board of Health  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_  
Signature: \_\_\_\_\_

Checklist of items to be submitted with application.

- Application Form (x3) and any other required forms on file with the Board
- Plans (4 Prints) & electronic version in .pdf format
- Statements as required in Sections 3330 & 3340
- Application Fee (please refer to Fee Schedule)
- Project Review Fee (please refer to Fee Schedule) & completed W-9
- Certified Abutters List (obtained from the Assessor's Office)
- Tax Status Application Form
- Form M Receipt for Subdivision Plan

*will submit Form M*

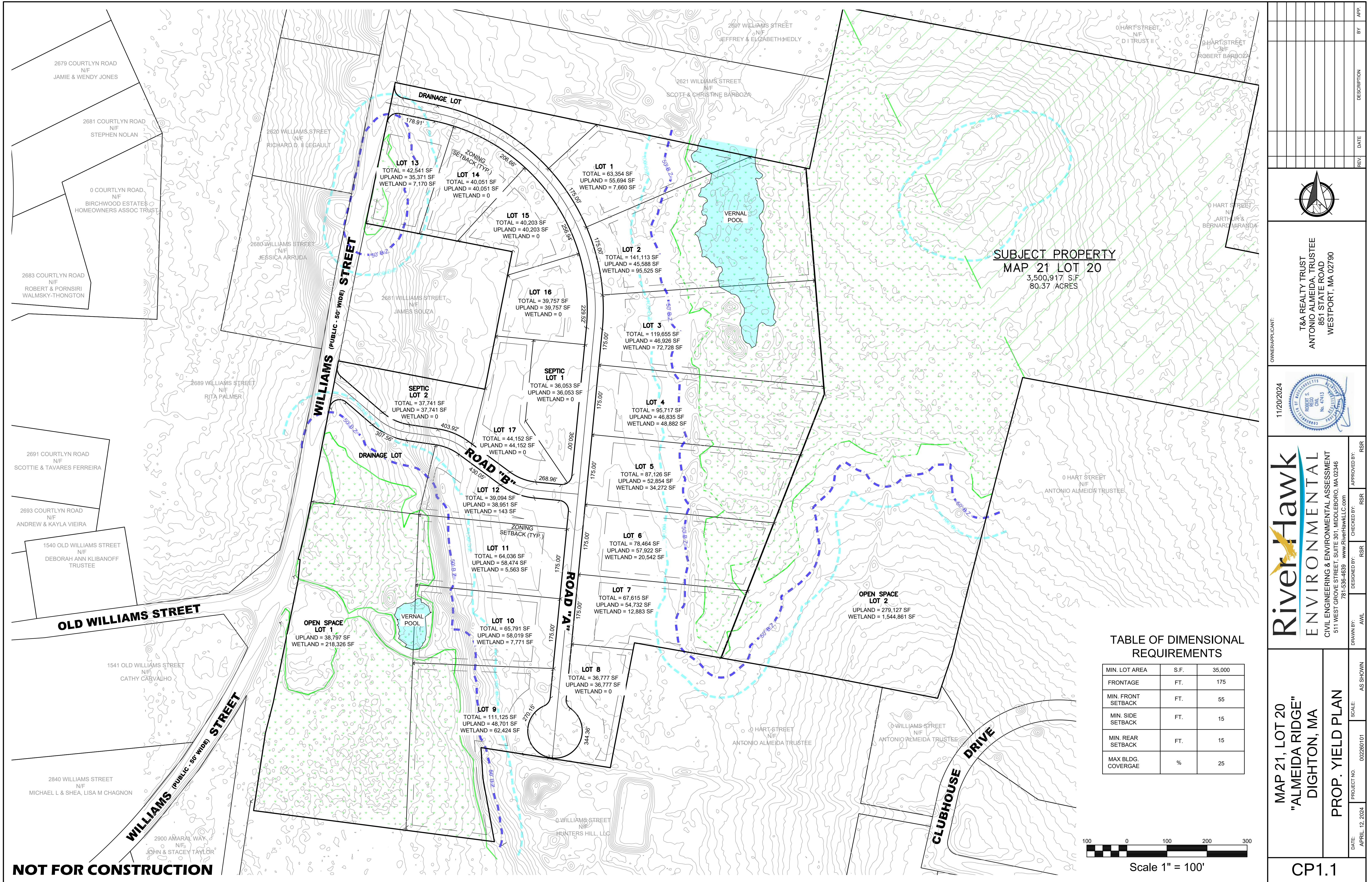
Note: The above checklist is only a recommendation. None of the above items can be required unless specifically required by the Planning Board's Rules and Regulations.

**RECEIVED**

Town Clerk-Dighton, MA

NOV 25 2024

Time: 12:18 PM  
By: SC



# TABLE OF CONTENTS

SHEET	PLAN ID
COV-1	COVER / INDEX
DEF-1	DEFINITIVE KEY PLAN
DEF-2 TO DEF-4	DEFINITIVE LOTTING PLANS
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GU-1 TO GU-3	GRADING & UTILITY
PP-1 TO PP-2	PLAN AND PROFILE
EC-1	EROSION CONTROL
D-1 TO D-5	DETAILS
SSD-1 TO SSD-4	SEPTIC SYSTEM DETAILS

# **DEFINITIVE SUBDIVISION ALMEIDA RIDGE DIGHTON, MA**

**PREPARED NOVEMBER 12, 2024**

**CURRENT OWNER / APPLICANT**  
T&A REALTY TRUST  
ANTONIO ALMEIDA, TRUSTEE  
851 STATE ROAD  
WESTPORT, MA 02790

**SITE ADDRESS**  
0 WILLIAMS STREET  
DIGHTON, MA, 02715

**ASSESSORS' REFERENCE**  
MAP 21 - LOT 20

**DEED REFERENCE**  
BK. 22063 - PG. 346

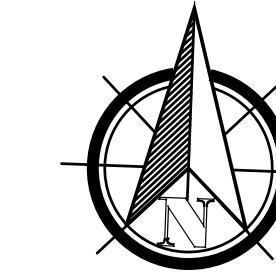
**PLAN REFERENCES**  
PB. 497 - PG. 26                    PB. 497 - PG. 44

**TOWN OF DIGHTON ZONING DESIGNATION**  
RESIDENCE & AGRICULTURE  
MIXED USE OVERLAY DISTRICT

**VERTICAL DATUM SHOWN**  
NAVD88

**HORIZONTAL DATUM SHOWN**  
NAD83 - MA MAINLAND

ZONE X - AREA OF MINIMAL FLOOD HAZARD, AS SCALED  
FROM FIRM PANEL 25005C0241F, EFF. DATE: 7/7/2009



## LEGEND

DESCRIPTION	EXISTING	PROPOSED
CATCH BASINS		
DRAIN MANHOLE		
SEWER CLEANOUT		
SEWER MANHOLE		
FIRE HYDRANT		
POWER POLE		
SW TREATMENT UNIT		
LIGHT POLE		
INTERMEDIATE CONTOUR		
INDEX CONTOUR		
DRAIN LINE		
GAS GATE		
WATER GATE		
WATER STUB W/ CURB STOP		
WATER LINE		
GAS LINE		
U.G. ELEC., TEL., CABLE		
VEGETATED WETLANDS		
25' BUFFER TO BVW		
50' BUFFER TO BVW		
100' BUFFER TO BVW		
RIVERFRONT AREA		
VEGETATED WETLAND FLAG		
TEST PIT		
TREE		
EROSION CONTROL BARRIER		
NHESP PRIORITY HABITAT		
FEMA ZONE A		
ZONE II		

# **DIGHTON**

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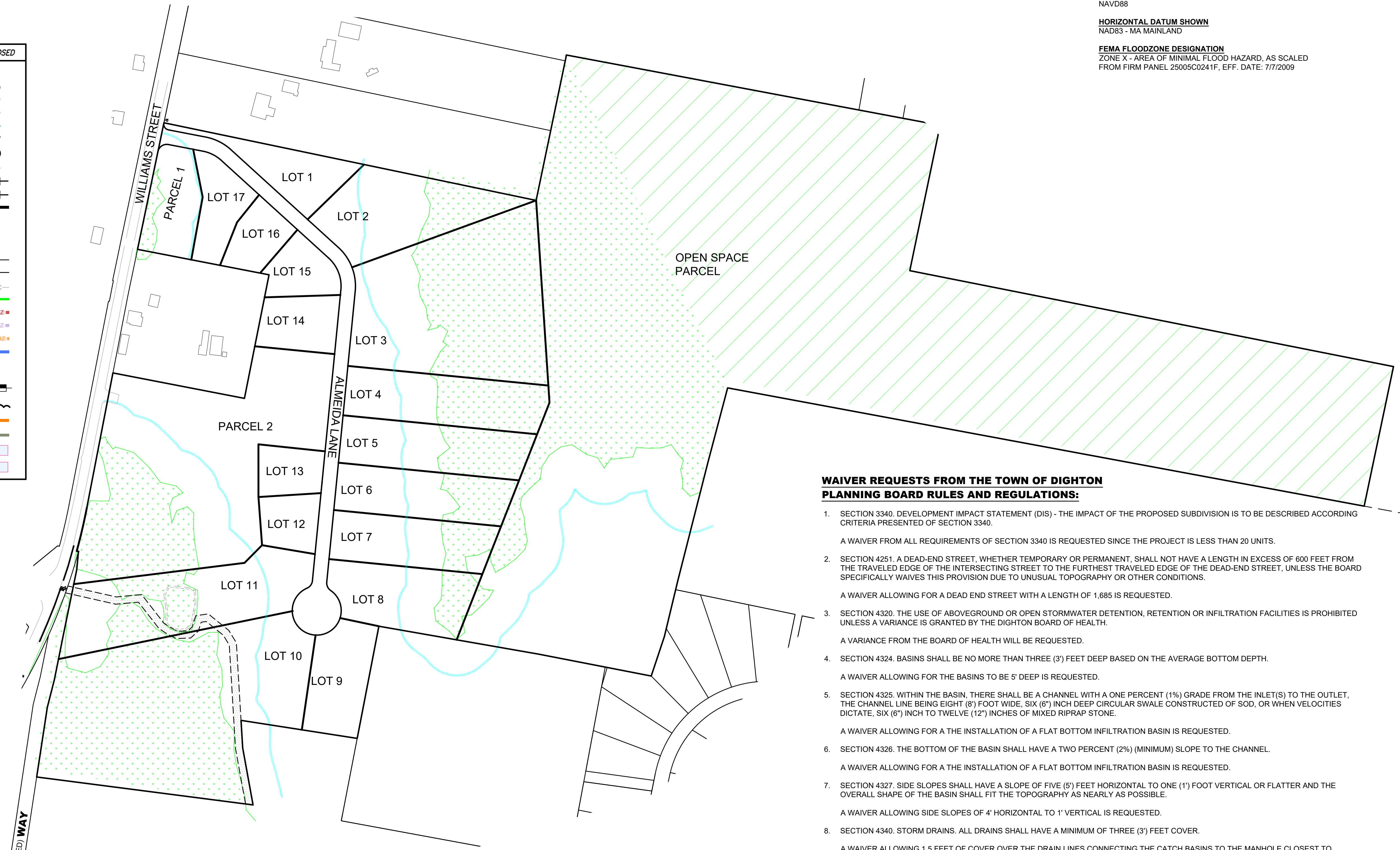
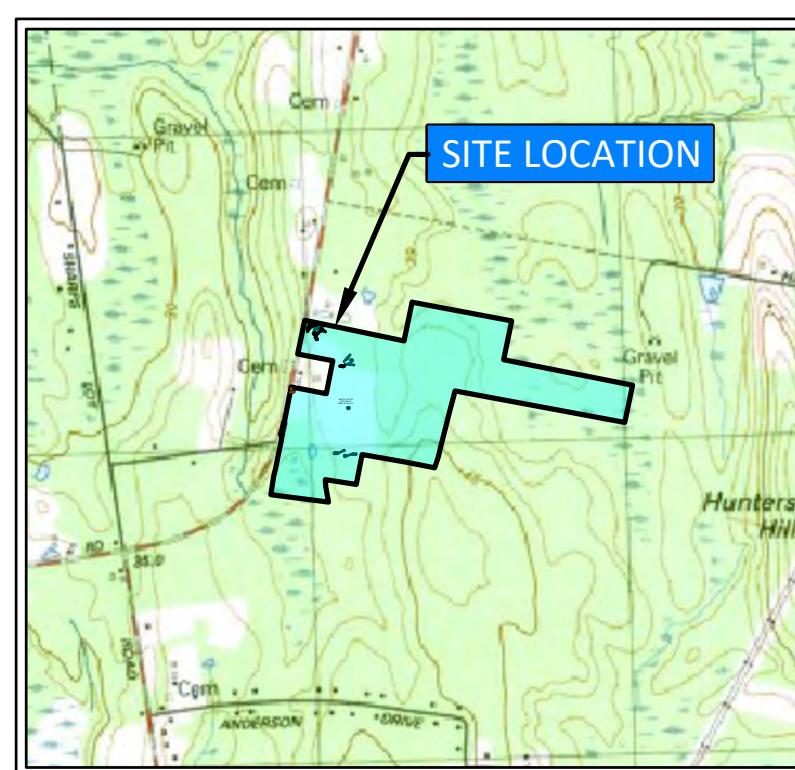
# **PLANNING BOARD**

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APPROVAL UNDER THE SUBDIVISION CONTROL  
LAW REQUIRED.

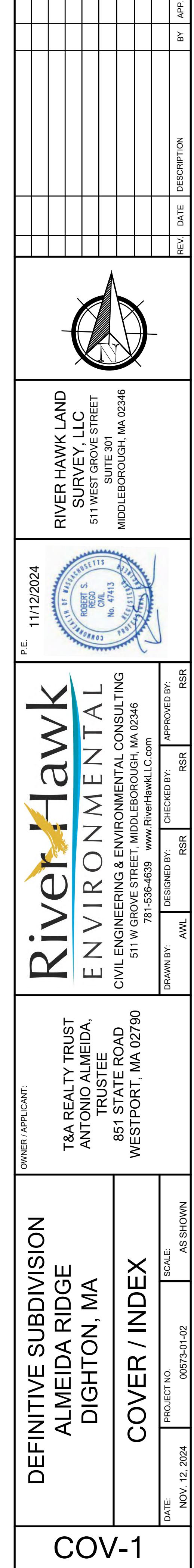
APPROVED:

**ENDORSED:**



150 0 150 300 45

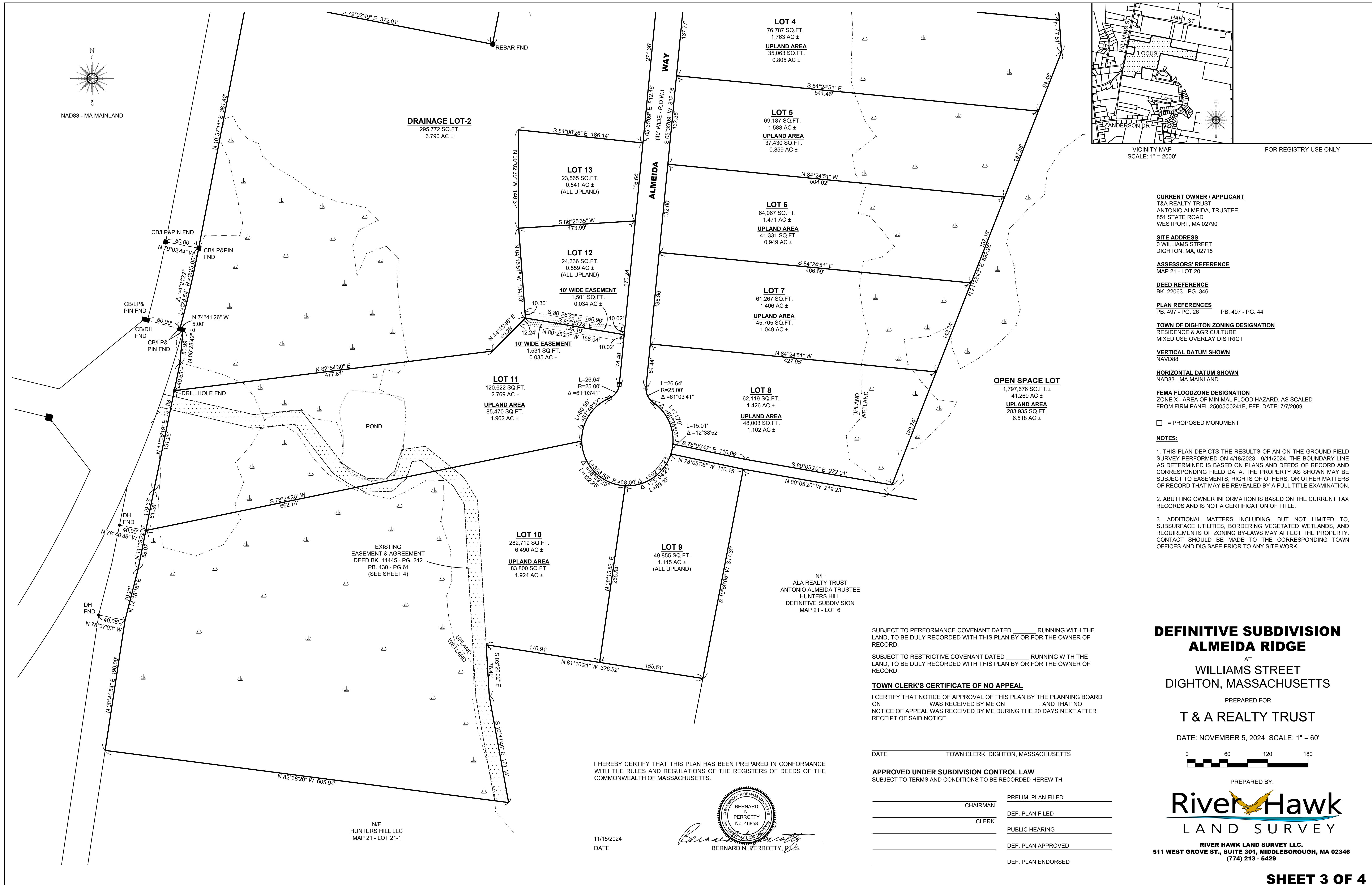
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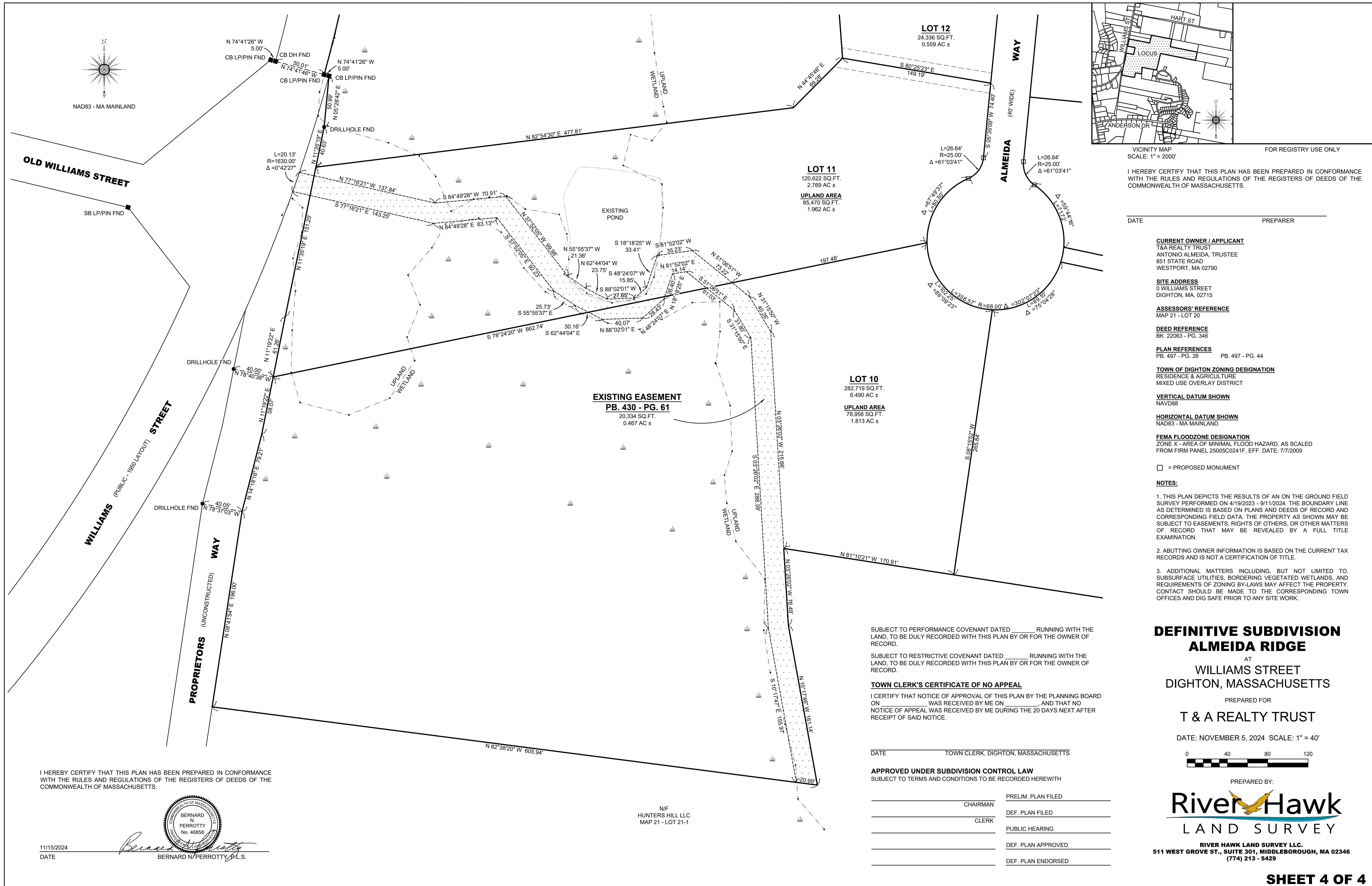


# COV-1







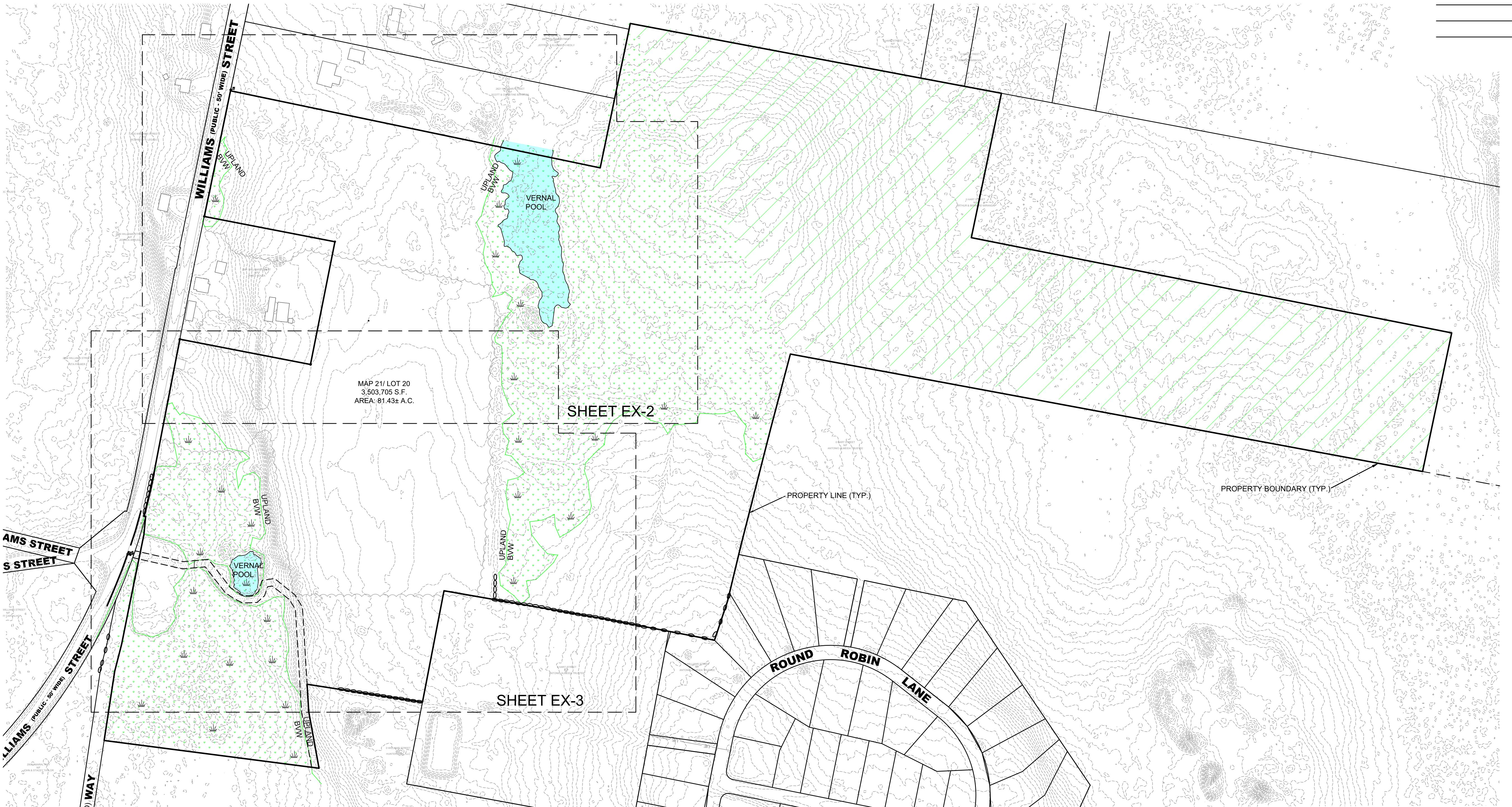


# **EDGTON PLANNING BOARD**

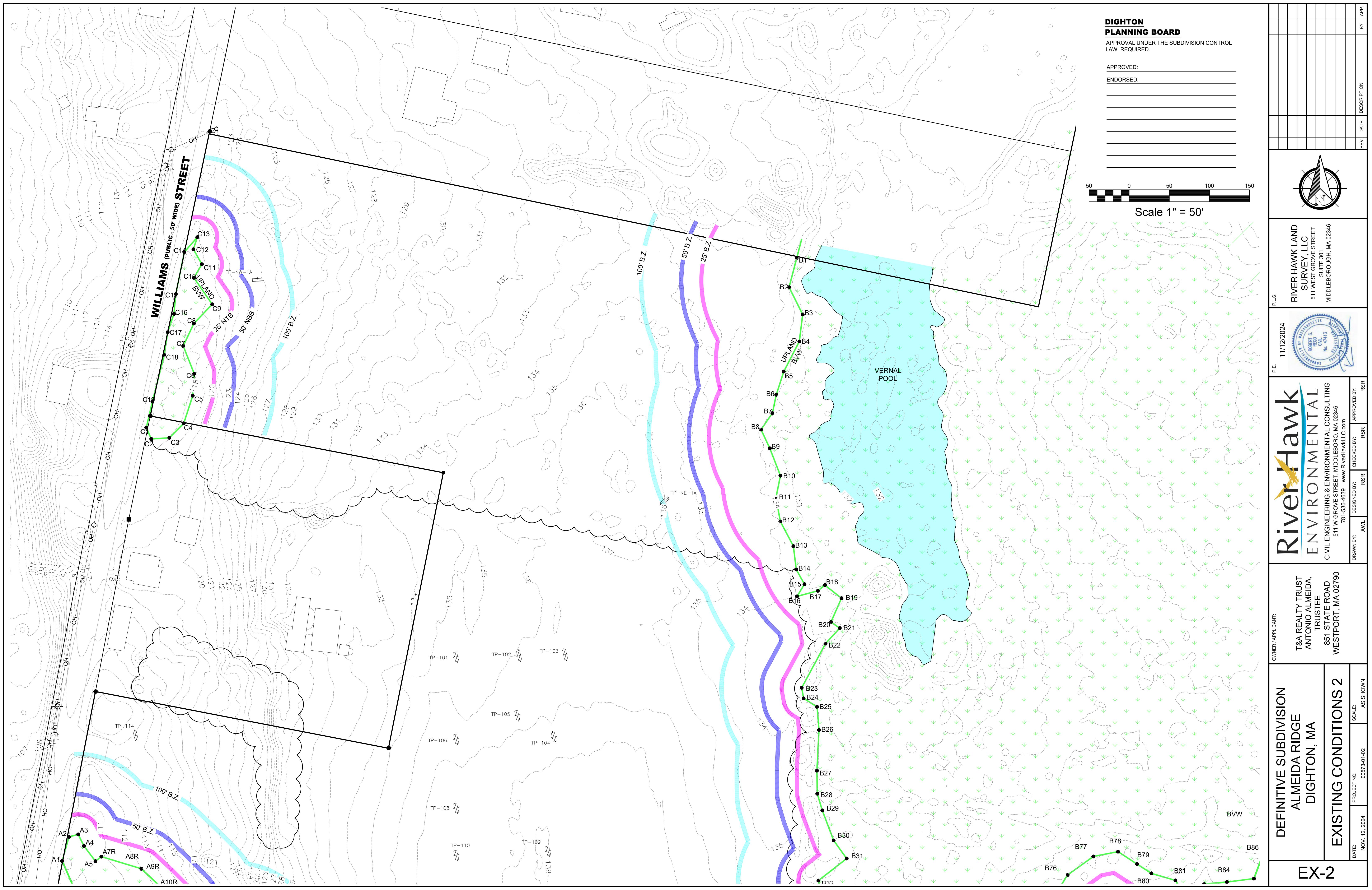
APPROVAL UNDER THE SUBDIVISION CONTROL  
AW REQUIRED.

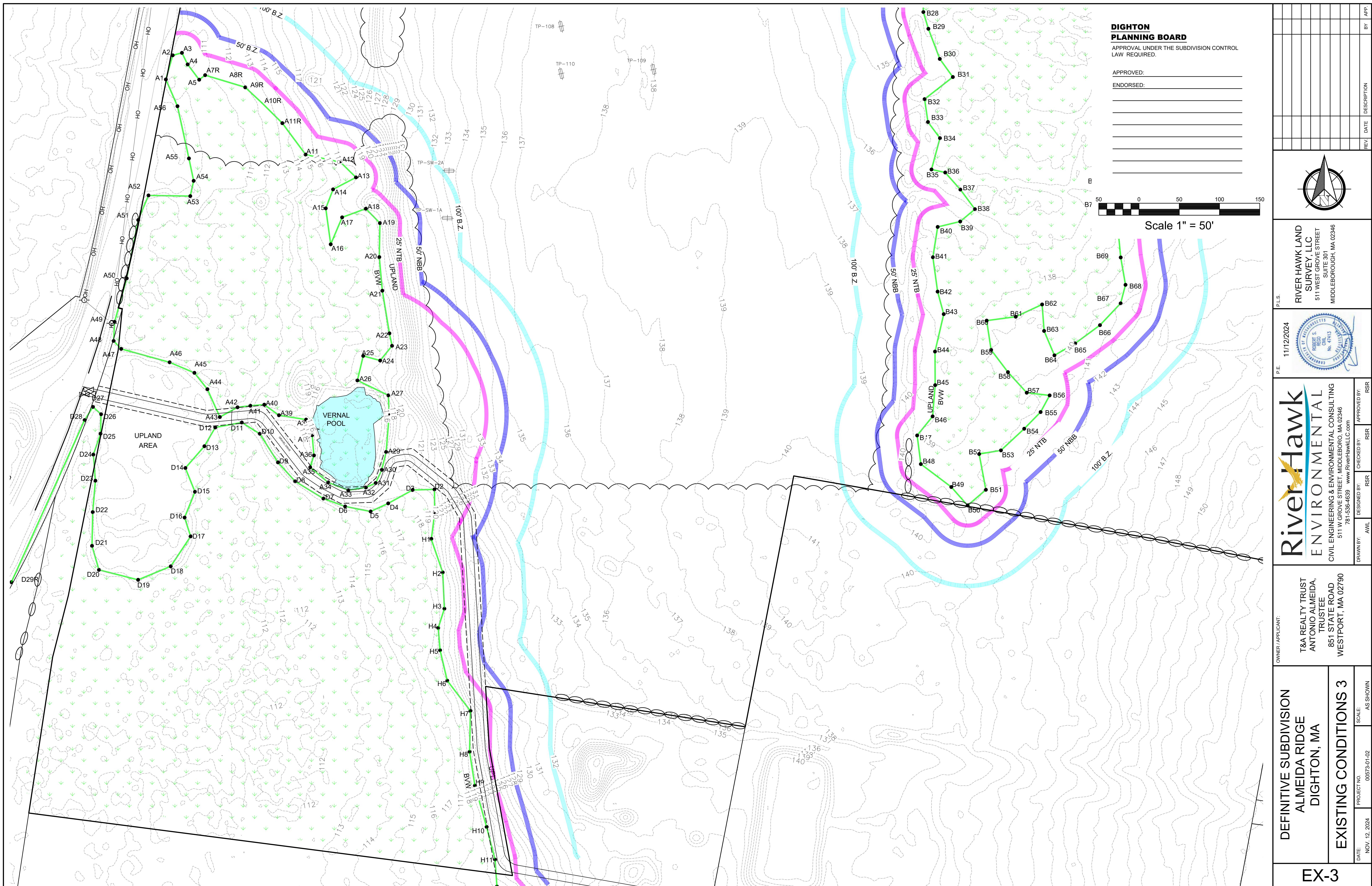
APPROVED: \_\_\_\_\_

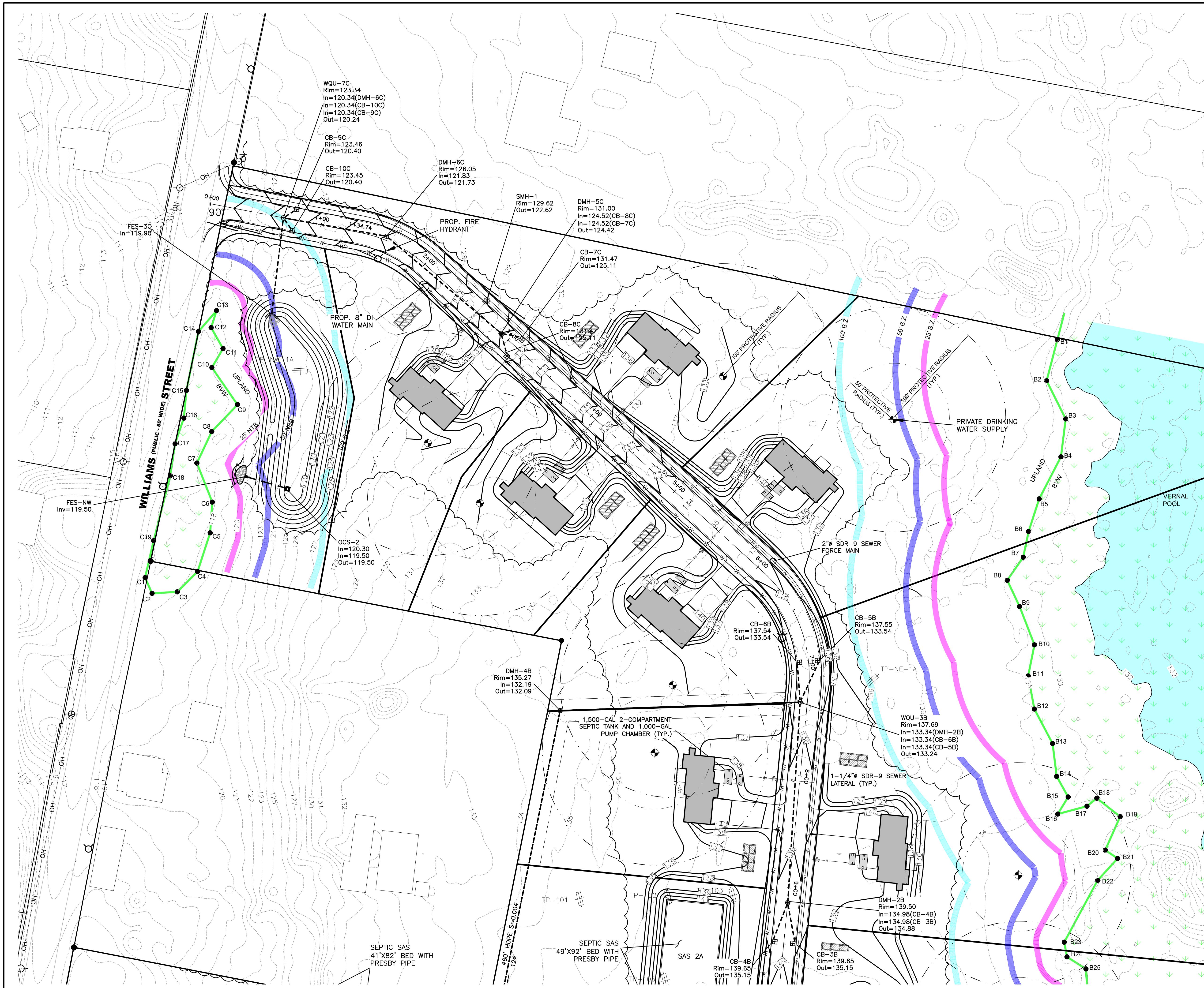
ENDORSED: \_\_\_\_\_



Scale 1" = 150'







**DIGHTON  
PLANNING BOARD**  
APPROVAL UNDER THE SUBDIVISION CONTROL  
LAW REQUIRED.  
APPROVED: \_\_\_\_\_  
ENDORSED: \_\_\_\_\_  
\_\_\_\_\_

DATE: NOV. 12, 2024	PROJECT NO. 00573-01-02	SCALE: AS SHOWN	OWNER/APPLICANT: T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 851 STATE ROAD WESTPORT, MA 02790	P.E. 11/12/2024	SURVEYOR: RIVER HAWK LAND SURVEY LLC 5111 WEST GROVE STREET MIDDLEBOROUGH, MA 02346
DRAWN BY: AVIL	DESIGNED BY: RSR	CHECKED BY: RSR	APPROVED BY: RSR		
REV. DATE:	DESCRIPTION:	REV. DATE:	DESCRIPTION:	REV. DATE:	DESCRIPTION:
BY: AFP.					

**RiverHawk**  
ENVIRONMENTAL  
CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING  
511 W GROVE STREET, MIDDLEBOROUGH, MA 02346  
781-536-1639 [www.RiverHawkLLC.com](http://www.RiverHawkLLC.com)

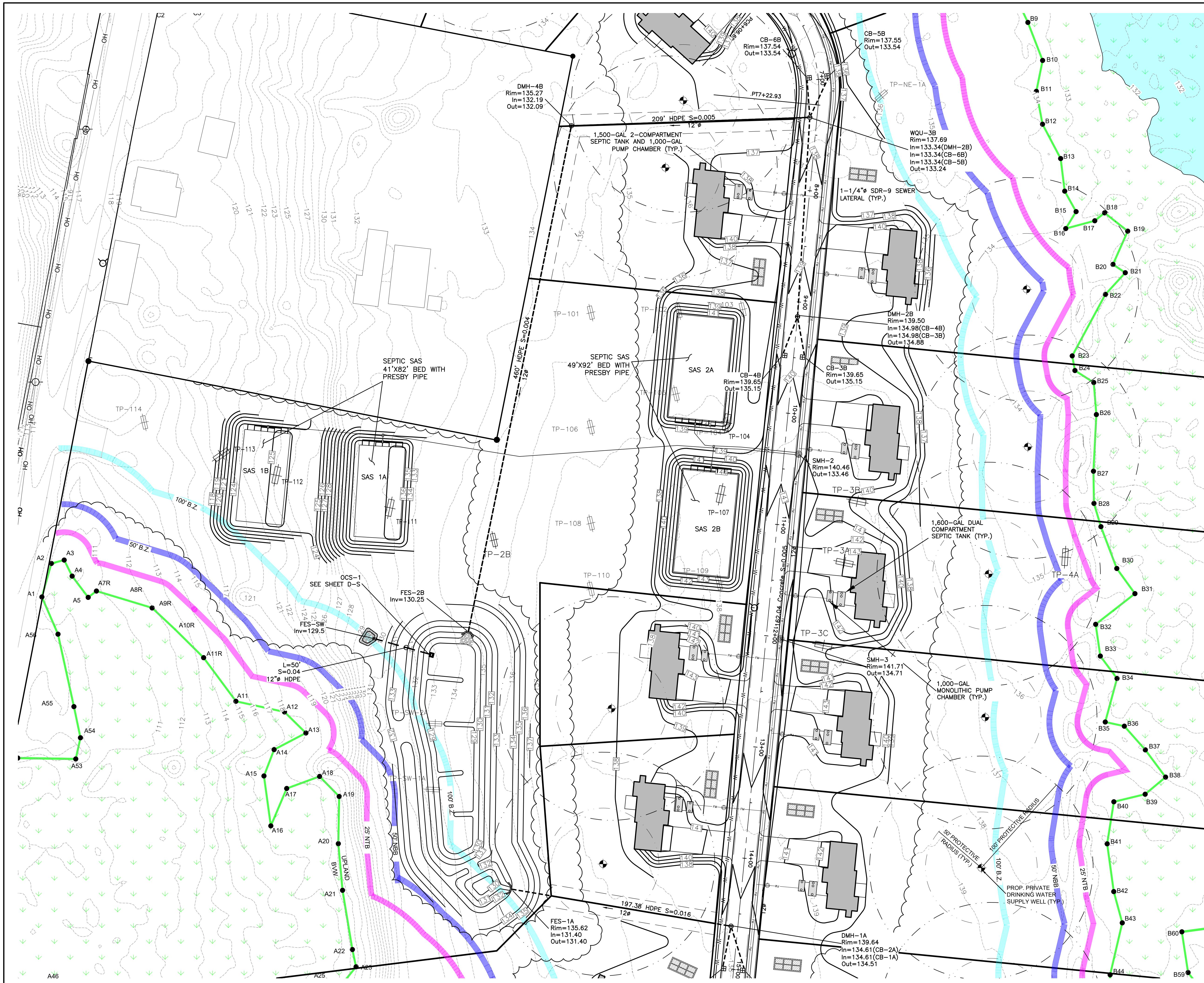
**DEFINITIVE SUBDIVISION  
ALMEIDA RIDGE  
DIGHTON, MA**  
GRADING & UTILITY LAYOUT 1  
DATE: NOV. 12, 2024

**DEFINITIVE SUBDIVISION  
ALMEIDA RIDGE  
DIGHTON, MA**  
GRADING & UTILITY LAYOUT 1  
DATE: NOV. 12, 2024

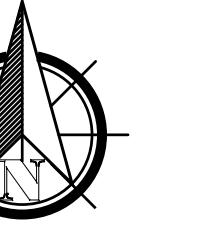
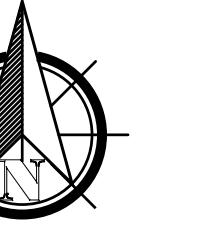
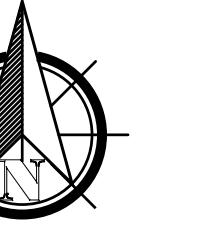
**DEFINITIVE SUBDIVISION  
ALMEIDA RIDGE  
DIGHTON, MA**  
GRADING & UTILITY LAYOUT 1  
DATE: NOV. 12, 2024

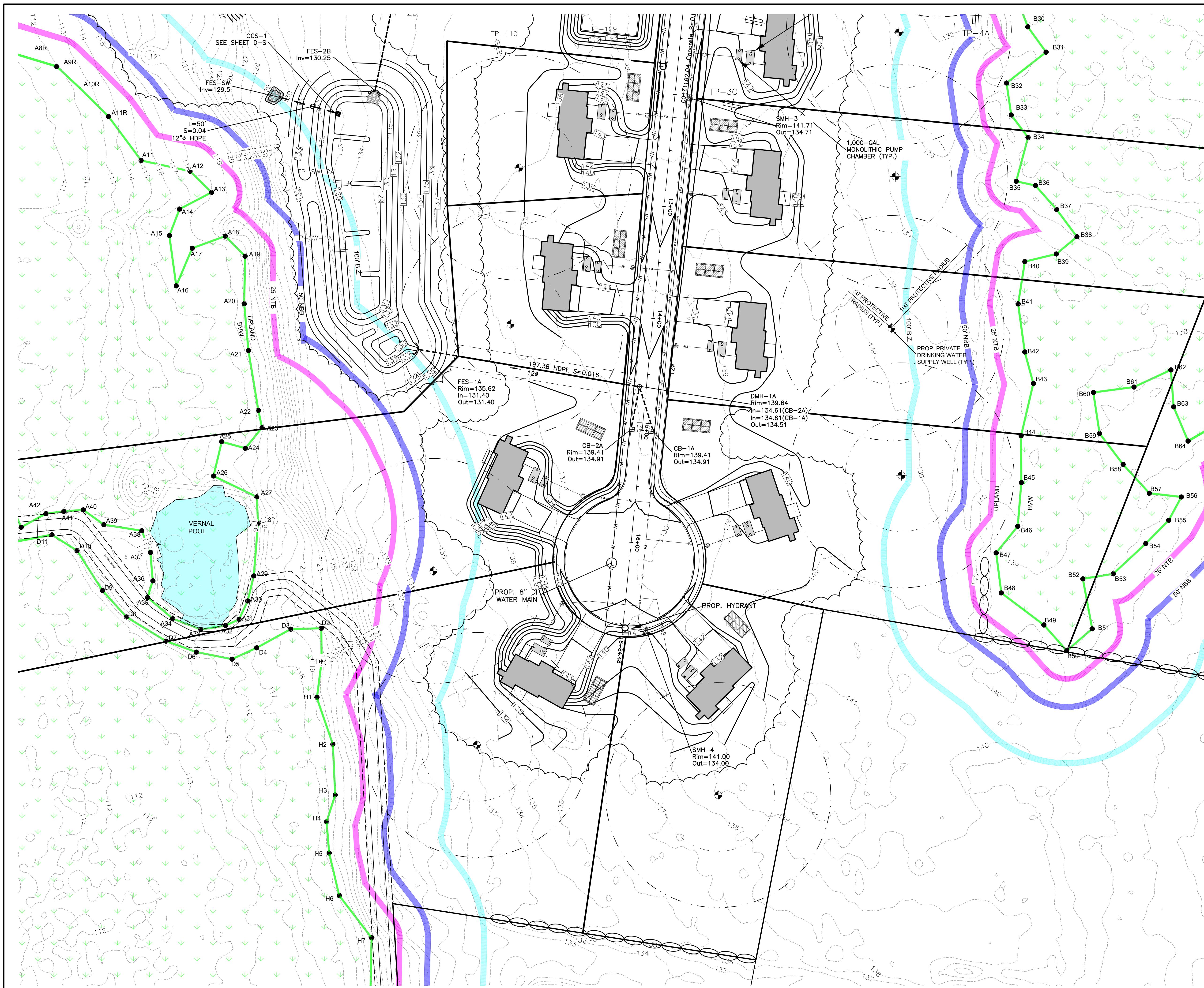
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**GU-1**



**DIGTION  
PLANNING BOARD**  
APPROVAL UNDER THE SUBDIVISION CONTROL  
LAW REQUIRED.  
APPROVED: \_\_\_\_\_  
ENDORSED: \_\_\_\_\_

DEFINITIVE SUBDIVISION ALMEIDA RIDGE DIGTION, MA		OWNER/APPLICANT: T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 651 STATE ROAD WESTPORT, MA 02790		SURVEYOR: RIVER HAWK LAND SURVEY LLC 511 W GROVE STREET MIDDLEBOROUGH, MA 02346													
DATE: NOV. 12, 2024	PROJECT NO. 00573-01-02	SCALE: AS SHOWN	DRAWN BY: AVIL	DESIGNED BY: RSR	CHECKED BY: RSR												
GRADING & UTILITY LAYOUT 2		APPROVED BY: RSR		P.E. 11/12/2024													
GU-2				APPROVED BY: RSR													
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**DIGTION  
PLANNING BOARD**  
APPROVAL UNDER THE SUBDIVISION CONTROL  
LAW REQUIRED.  
APPROVED: \_\_\_\_\_  
ENDORSED: \_\_\_\_\_  
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DEFINITIVE SUBDIVISION ALMEIDA RIDGE DIGHTON, MA		OWNER/APPLICANT: T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 851 STATE ROAD WESTPORT, MA 02790	P.E. 11/12/2024	SURVEYOR: RIVER HAWK LAND SURVEY LLC 511 W GROVE STREET SUITE 301 MIDDLEBOROUGH, MA 02346																																																																								
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<b>RiverHawk</b> ENVIRONMENTAL CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING 511 W GROVE STREET, MIDDLEBOROUGH, MA 02346 781-536-1639 www.RiverHawkLLC.com																																																																												

40 0 40 80 120  
Scale 1" = 40'  
X:\Dighton\Williams St\Tony Almedia's Land\CAD\Tony's Farm Land - Definitive Base.dwg

GU-3

## EROSION AND SEDIMENT CONTROL PLAN

STORMWATER DISCHARGES FROM THIS CONSTRUCTION PROJECT ARE REGULATED UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMITTING PROGRAM. PRIOR TO THE START OF CONSTRUCTION, CONSTRUCTION OPERATORS MUST OBTAIN COVERAGE UNDER AN NPDES PERMIT, WHICH IS ADMINISTERED BY THE EPA. THE OWNER AND THE CONTRACTOR MUST FILE A NOTICE OF INTENT FOR COVERAGE UNDER THE EPA CONSTRUCTION GENERAL PERMIT (CGP). THE CGP REQUIRES OPERATORS OF CONSTRUCTION SITES TO MEET EFFLUENT LIMITS (I.E., THROUGH THE IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS) AND REQUIRES OPERATORS TO DEVELOP A SWPPP DETAILING EROSION AND SEDIMENT CONTROLS AND POLLUTION PREVENTION MEASURES THAT WILL BE IMPLEMENTED TO MEET THE REQUIREMENTS OF THE CGP. THE PLAN PRESENTED BELOW IS MEANT TO BE AN OVERVIEW OF THE EROSION AND SEDIMENT CONTROLS AND POLLUTION PREVENTION MEASURES TO BE IMPLEMENTED AND IS NOT CONSIDERED TO BE A COMPREHENSIVE SWPPP.

THE CONTRACTOR WILL BE ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE SWANSEA PLANNING BOARD OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLE FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

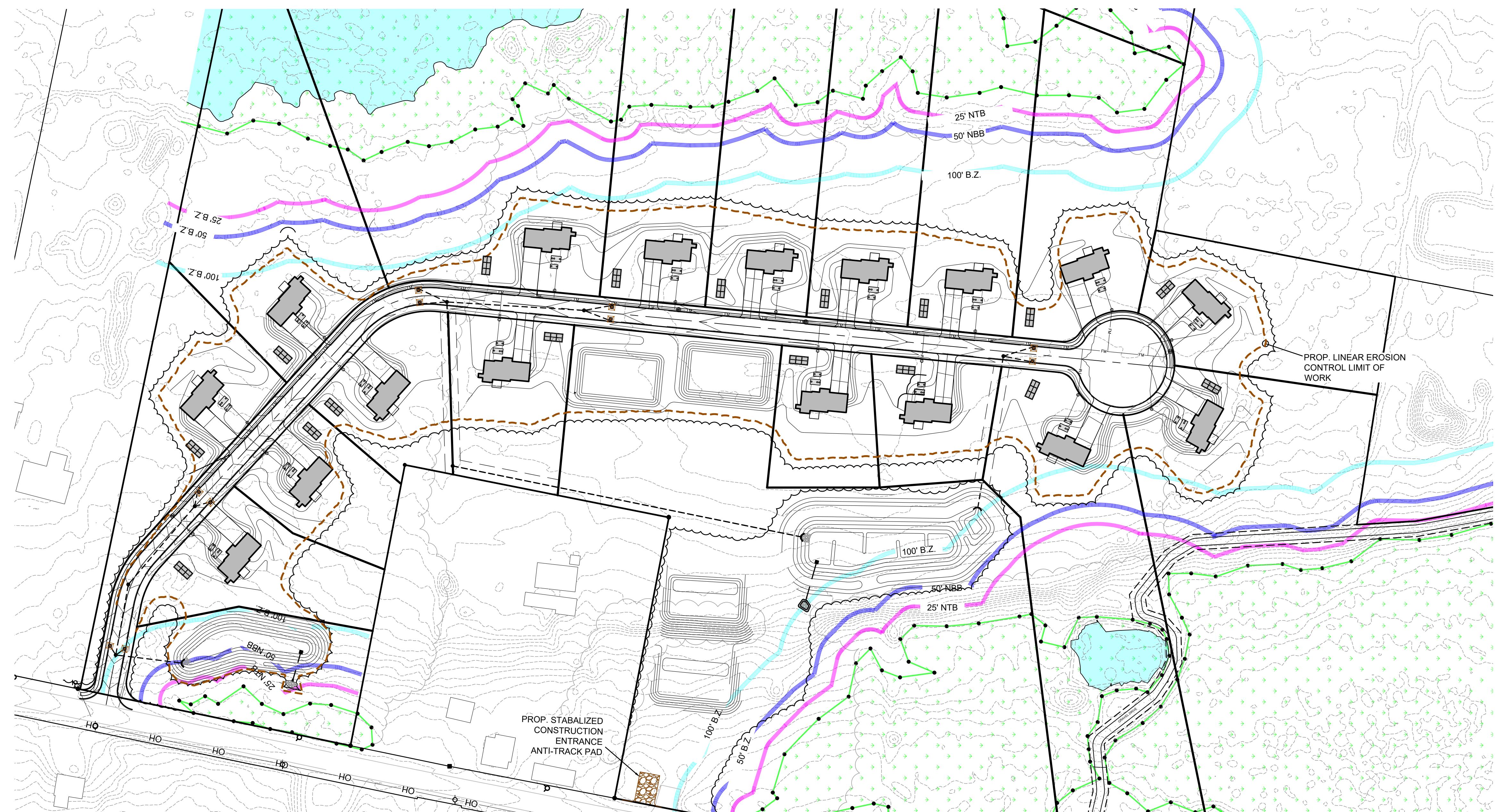
## CONSTRUCTION OPERATION AND MAINTENANCE SCHEDULE

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PHASE IS THE RESPONSIBILITY OF THE OWNER AND/OR SITE CONTRACTOR. THE OUTLINE BELOW SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE SYSTEM.

- PRIOR TO CONSTRUCTION, THE STABILIZED CONSTRUCTION ENTRANCE, PERIMETER CONTROLS, AND STORM DRAIN INLET PROTECTION BMPs (EROSION CONTROL BMPs) SHALL BE INSTALLED PER THE APPROVED PLANS.
- IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AND STABILIZED AS SOON AS POSSIBLE. METHODS OF STABILIZATION INCLUDE, BUT ARE NOT LIMITED TO, HYDROSEED, LOAM AND SEED, STRAW MULCH, EROSION CONTROL BLANKETS, ETC.
- THE CATCH BASINS AND PROPRIETARY TREATMENT UNITS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. ANY SEDIMENT BUILDUP OF EIGHT (8) INCH DEPTH IN ANY OF THE STRUCTURES SHALL BE PROMPTLY REMOVED BY HAND OR MECHANICAL METHODS, AND ALL DEBRIS REMOVED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

## EROSION AND SEDIMENT CONTROLS

- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH THE SPECIFICATIONS IN APPENDIX A OF THE CGP: EROSION AND SEDIMENT CONTROL SPECIFICATIONS. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
- PRESERVE NATIVE TOPSOIL: NATIVE TOP SOIL WILL BE STOCKPILED AND RE-USED ON SITE.
- PERIMETER CONTROLS: EROSION CONTROL BMPs [I.E., COMPOST FIBER ROLLS, SILT FENCES, OR A COMBINATION OF EACH], SHALL BE INSTALLED IN TOPOGRAPHICALLY LOW-LYING AREAS AT THE PERIMETER OF THE PROJECT PRIOR TO AND DURING THE CONSTRUCTION PERIOD. EROSION CONTROL BMPs SHALL BE PLACED IN A STURDY, UPRIGHT POSITION AND SUPPORTED/ANCHORED TO WITHSTAND THE FORCES OF THE ELEMENTS AND THE CIRCUMSTANCES OF CONSTRUCTION ACTIVITIES. THE BMPs SHALL BE INSTALLED IN A MANNER THAT WILL PREVENT STORMWATER RUNOFF FROM PASSING OVER, UNDER OR AROUND THE SEDIMENTATION BARRIER (I.E., ALL OF THE RUNOFF WILL PASS THROUGH THE SEDIMENTATION BARRIER). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION BARRIERS IN A FUNCTIONAL CONDITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ALSO REMOVE ANY LARGE ACCUMULATIONS OF SEDIMENT IN A TIMELY MANNER AND DISPOSE OF THE MATERIAL APPROPRIATELY.
- SEDIMENT TRACK-OUT: PRIOR TO COMMENCING EARTHWORK ACTIVITIES (I.E., INSTALLATION OF THE UTILITIES AND PERMANENT STORMWATER CONTROLS), A STABILIZED CONSTRUCTION ENTRANCE/EXIT PAD SHALL BE INSTALLED. THE CRUSHED STONE BED SHALL BE REPLENISHED AS NECESSARY TO MAINTAIN PROPER FUNCTION.
- MINIMIZE DUST: THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF THEIR CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND HAUL ROADS. CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC.



## EROSION AND SEDIMENT CONTROLS

6. STOCKPILE MANAGEMENT: STOCKPILES OF SOIL SHALL BE SURROUNDED BY A SEDIMENT BARRIER. SOIL STOCKPILES TO BE LEFT BARE FOR MORE THAN FOURTEEN (14) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH. IF SOIL STOCKPILES ARE TO REMAIN FOR MORE THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED IN PLACE OF STRAWBALES. SIDE SLOPES SHALL NOT EXCEED 2:1.

7. STORM DRAIN INLET PROTECTION: CATCH BASINS WILL BE PROTECTED WITH UNDER GRATE SEDIMENT BAGS (SILT BAGS) THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SILT BAGS SHOULD BE INSTALLED UNDER GRATE OPENING UNTIL PAVEMENT IS IN PLACE AND GROUND SURFACE IS STABILIZED. SILT BAGS SHALL BE PLACED IN ALL CATCH BASINS WITHIN 100' OF THE CONSTRUCTION ENTRANCE.

8. Dewatering Controls: Where de-watering is necessary, there shall not be a discharge directly into wetlands or watercourses. Proper methods and devices shall be utilized to the extent permitted by law, such as pumping water into a temporary sedimentation bowl, providing surge protection at the inlet and the outlet of pumps, or floating the intake of the pump, or other methods to minimize and retain the suspended solids. If a pumping operation is causing turbidity problems, said operation shall cease until such time as feasible means of controlling turbidity are determined and implemented. Said discharge points shall be located over 100 feet from the delineated wetlands as indicated on this plan.

## SITE STABILIZATION

1. AREAS THAT ARE NOT THE LOCATION OF ACTIVE CONSTRUCTION WHICH ARE TO BE LEFT BARE FOR OVER FOURTEEN (14) DAYS BEFORE FINISHED GRADING AND SEEDING IS ACHIEVED, SHALL BE MULCHED OR RECEIVE TEMPORARY STABILIZATION SUCH AS JUTE NETTING OR SHALL RECEIVE A TEMPORARY SEEDING OF PERENNIAL RYEGRASS APPLIED AT A RATE OF 2 LBS./1,000 SQ. FT. LIMESTONE (EQUIVALENT TO BE 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) SHALL BE APPLIED AS SEEDBED PREPARATION AT A RATE OF 90 LBS./1,000 SQ. FT.

2. STABILIZATION OF SLOPES IN CUT AREAS (USING MULCH OR GRASS) AND THE INSTALLATION OF CONTROL LINE (STRAWBALE CHECK OR FILTER FABRIC) AT THE TOE OF SLOPE SHALL BE INITIATED IMMEDIATELY UPON COMPLETION.

3. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN. ALL LINEAR EROSION CONTROLS RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT REMOVED AND ALL DAMAGED EROSION CONTROLS SHALL BE REPAIRED OR REPLACED.

## SITE INSPECTIONS

1. A SITE INSPECTION SHALL BE CONDUCTED EITHER (1) ONCE EVERY 7 CALENDAR DAYS, OR ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE OCCURRENCE OF A STORM EVENT OF 0.25 INCHES OR GREATER OF RAIN WITHIN A 24-HOUR PERIOD OR WITHIN 24 HOURS OF A DISCHARGE CAUSED BY SNOWMELT FROM A STORM EVENT THAT PRODUCES 3.25 INCHES OR MORE OF SNOW WITHIN A 24-HOUR PERIOD.

## MAINTENANCE AND CORRECTIVE ACTIONS

1. THE CONTRACTOR MUST ENSURE THAT ALL EROSION AND SEDIMENT CONTROLS AND POLLUTION PREVENTION PRACTICES REMAIN IN EFFECTIVE OPERATING CONDITION DURING PERMIT COVERAGE AND ARE PROTECTED FROM ACTIVITIES THAT WOULD REDUCE THEIR EFFECTIVENESS.

2. THE CONTRACTOR MUST COMPLETE CORRECTIVE ACTIONS IN ACCORDANCE WITH THE DEADLINES PRESENTED IN THE CGP. THE LINEAR EROSION CONTROLS SHALL BE INSPECTED PRIOR TO A LARGE STORM EVENT TO ENSURE THAT THE EROSION CONTROL WILL FUNCTION AS REQUIRED AND FOLLOWING A STORM TO INSPECT FOR DAMAGE TO THE EROSION CONTROL ELEMENTS. ANY DAMAGE OR IMPROPER INSTALLATION THAT IS NOTICED PRIOR TO OR FOLLOWING A STORM EVENT SHALL BE PROMPTLY REPLACED OR REPAIRED IN A SATISFACTORY MANNER SO AS TO PREVENT SEDIMENT FROM BYPASSING THE EROSION CONTROL BARRIER.

**DIGTION PLANNING BOARD**  
APPROVAL UNDER THE SUBDIVISION CONTROL LAW REQUIRED.

APPROVED: \_\_\_\_\_  
ENDORSED: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



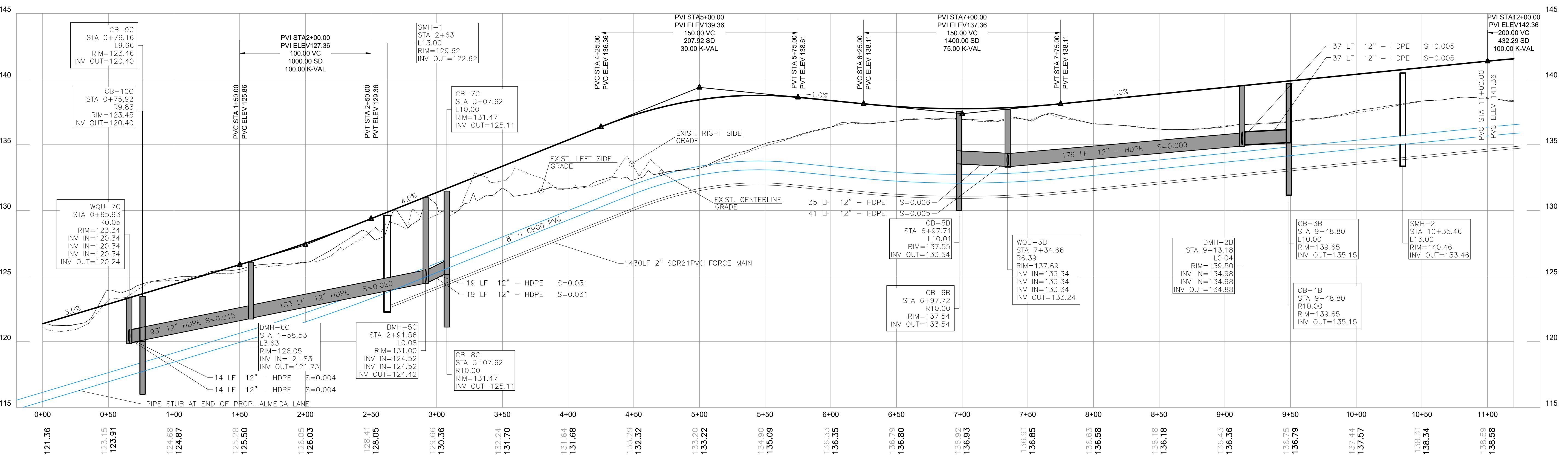
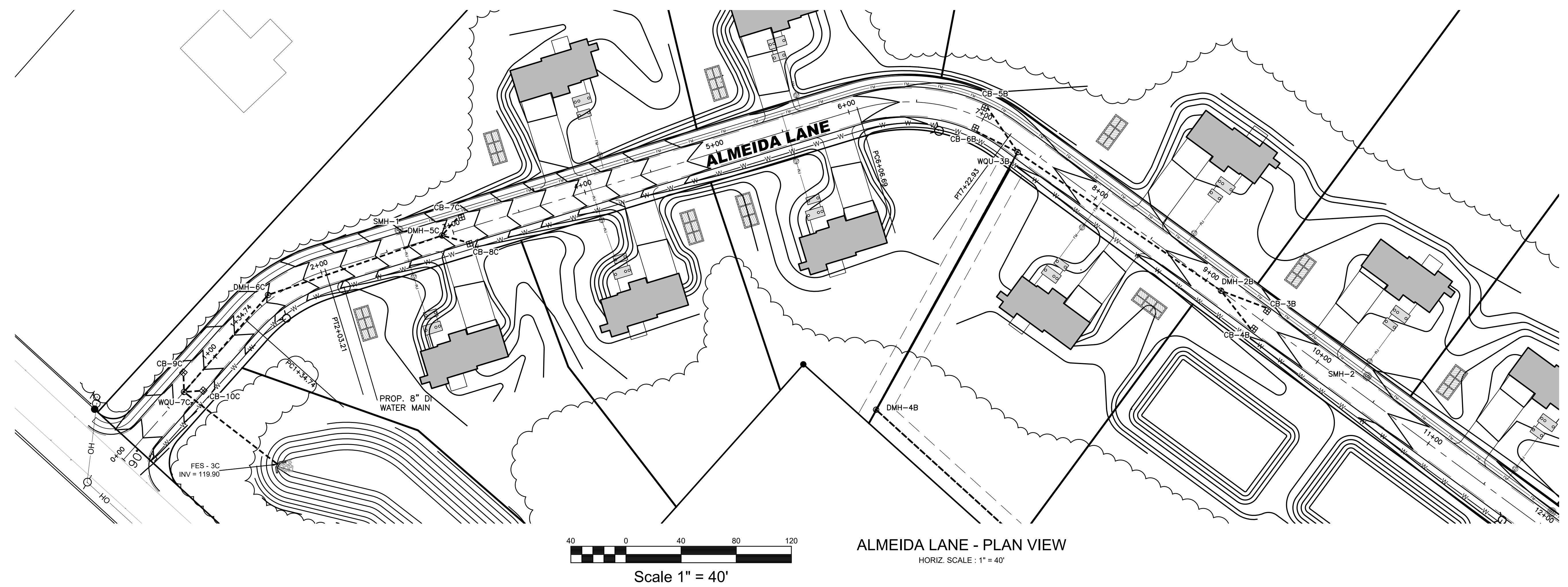
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DRAWN BY:	AVIL DESIGNED BY: RSR CHECKED BY: RSR APPROVED BY: RSR		
PROJECT NO.	00573-01-02	SCALE:	AS SHOWN
DATE:	NOV. 12, 2024	APR.	BY

**LEGEND**

- PROPOSED LINEAR EROSION CONTROL LINE
- PROPOSED CATCH BASIN INLET PROTECTION
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE

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Scale 1" = 80'

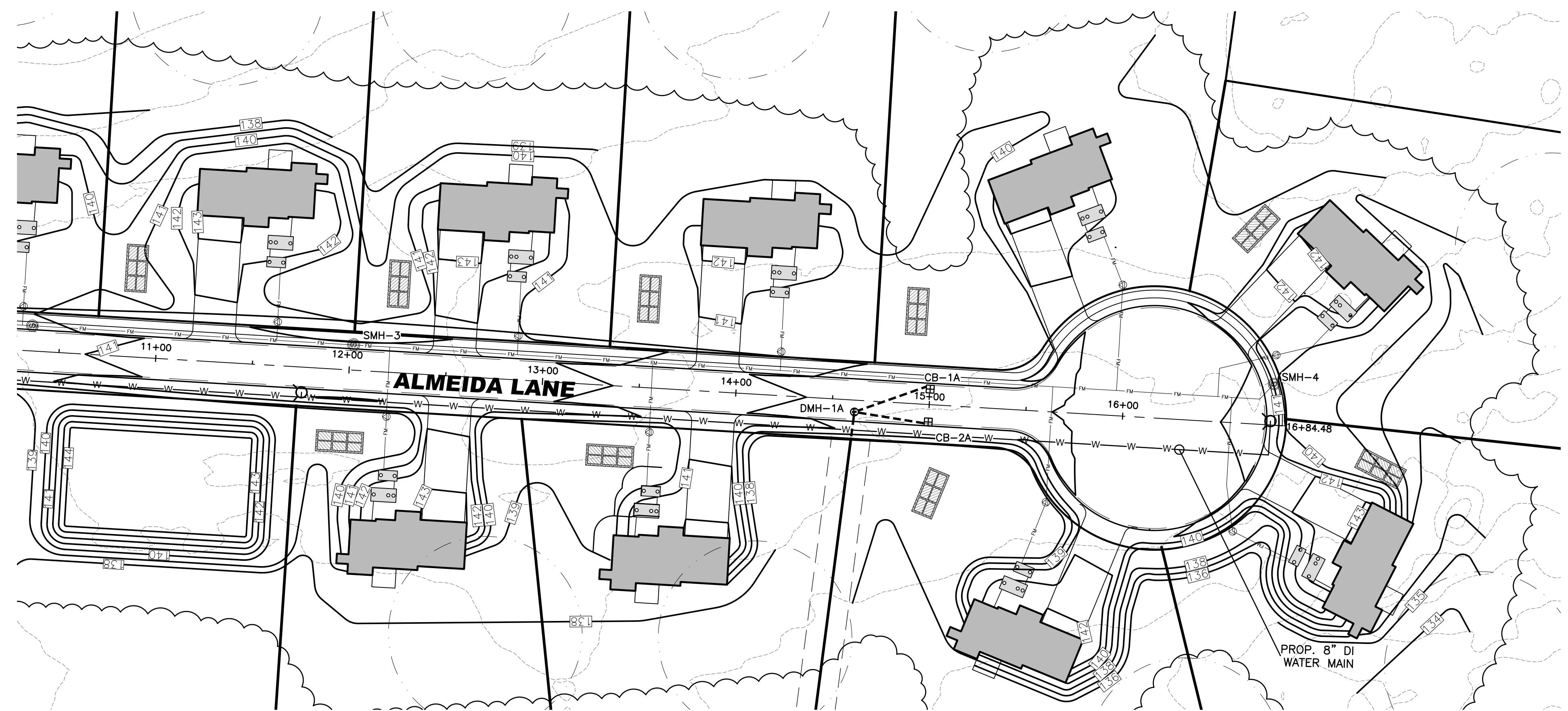
EC-1



ALMEIDA LANE - PROFILE VIEW

HORIZ. SCALE : 1" = 40'  
VERT. SCALE : 1" = 4'

DEFINITIVE SUBDIVISION ALMEIDA RIDGE Dighton, MA		DRAWN BY: AWL DESIGNED BY: RSR CHECKED BY: RSR APPROVED BY: RSR	
PROJECT NO. 0057-01-02 AS SHOWN		SCALE:	
DATE: NOV 22, 2024		REV. DATE	DESCRIPTION
P.E. 11/12/2024		SURVEYOR: RIVER HAWK LAND SURVEY, LLC 511 WEST GROVE STREET SUITE 301 MIDDLEBOROUGH, MA 02346	
			
<p><b>River Hawk</b> ENVIRONMENTAL CONSULTING CIVIL ENGINEERING &amp; ENVIRONMENTAL CONSULTING 511 W GROVE STREET, MIDDLEBORO, MA 02346 781-536-4639 <a href="http://www.RiverHawkLLC.com">www.RiverHawkLLC.com</a></p>			

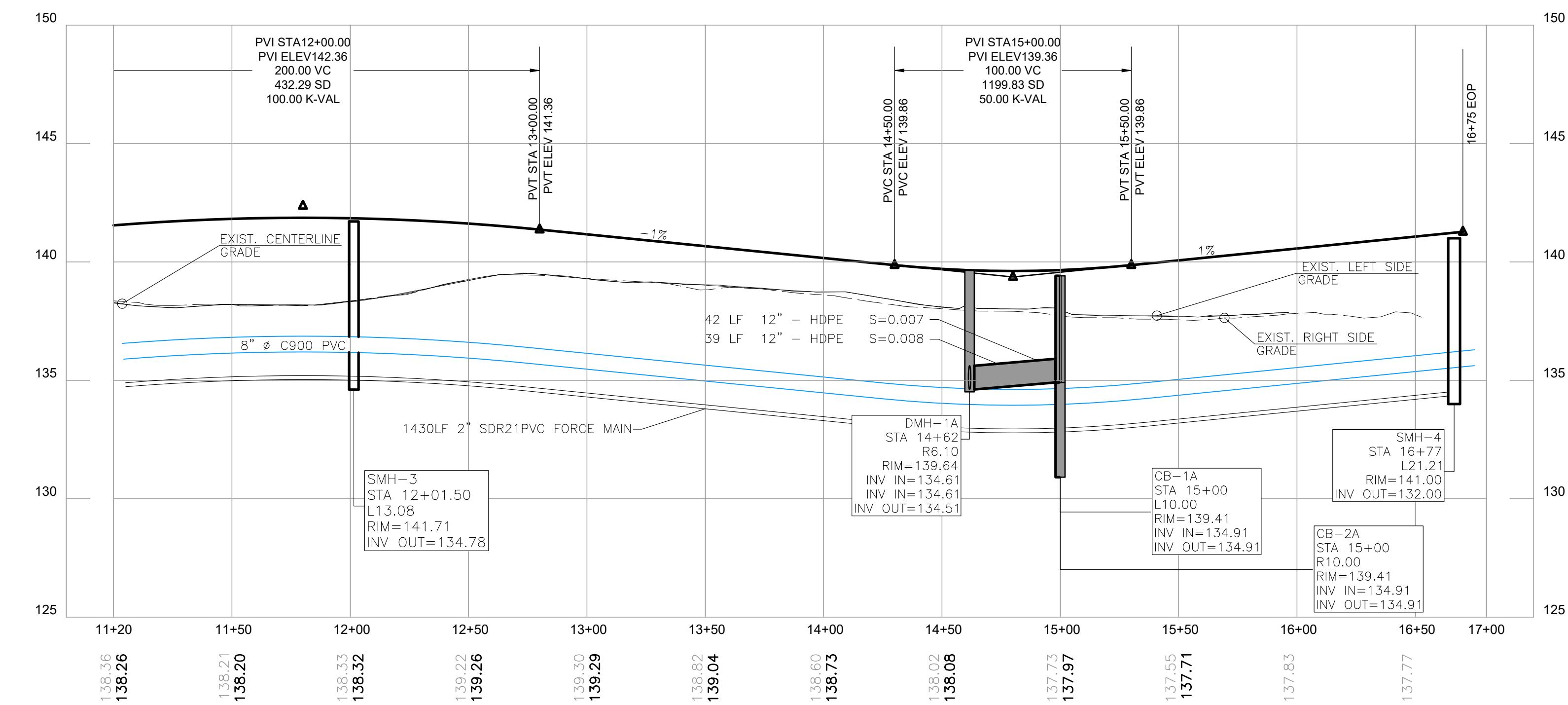


ALMEIDA LANE - PLAN VIEW

HORIZ. SCALE : 1" = 40'

Scale 1" = 40'

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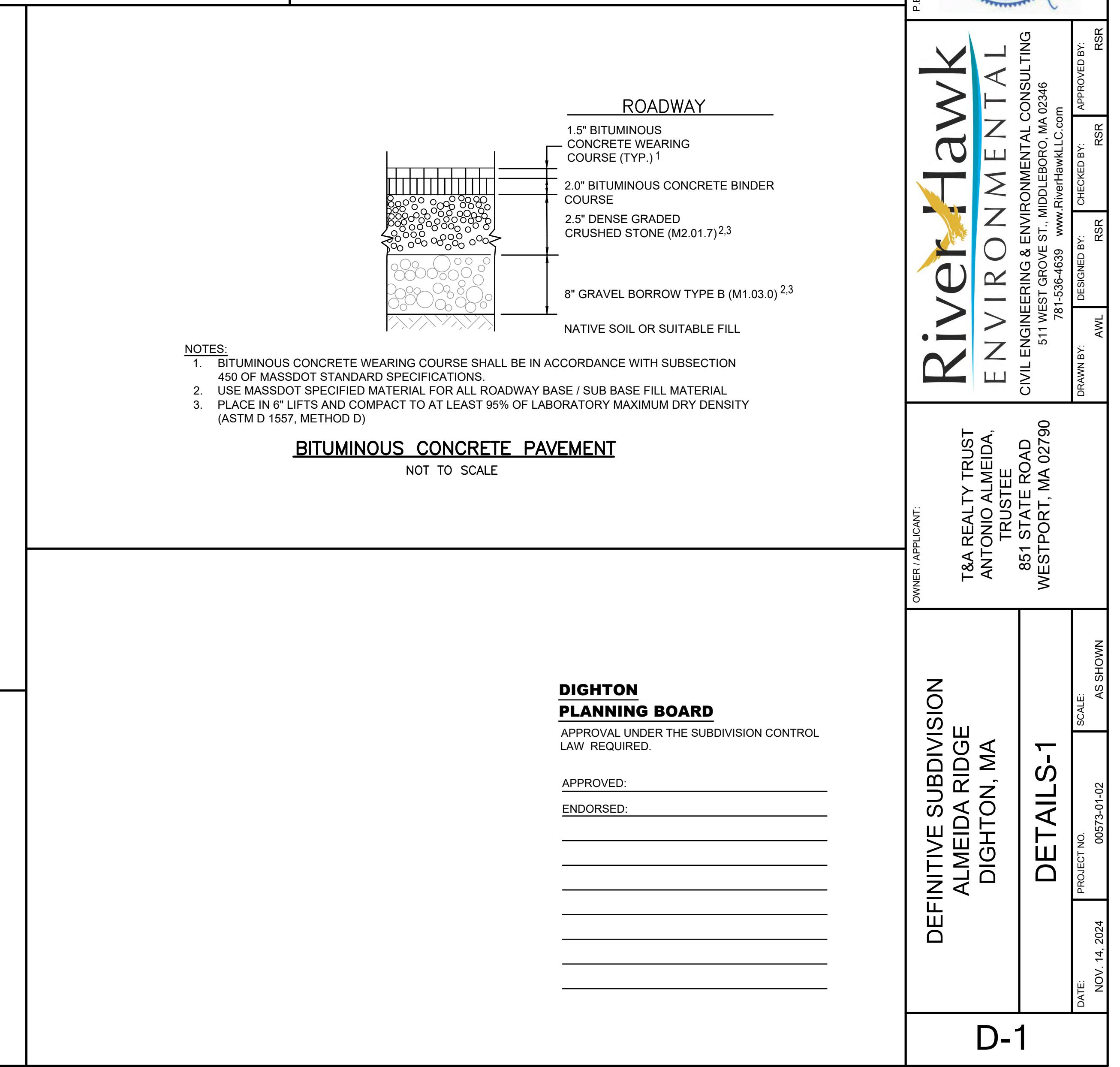
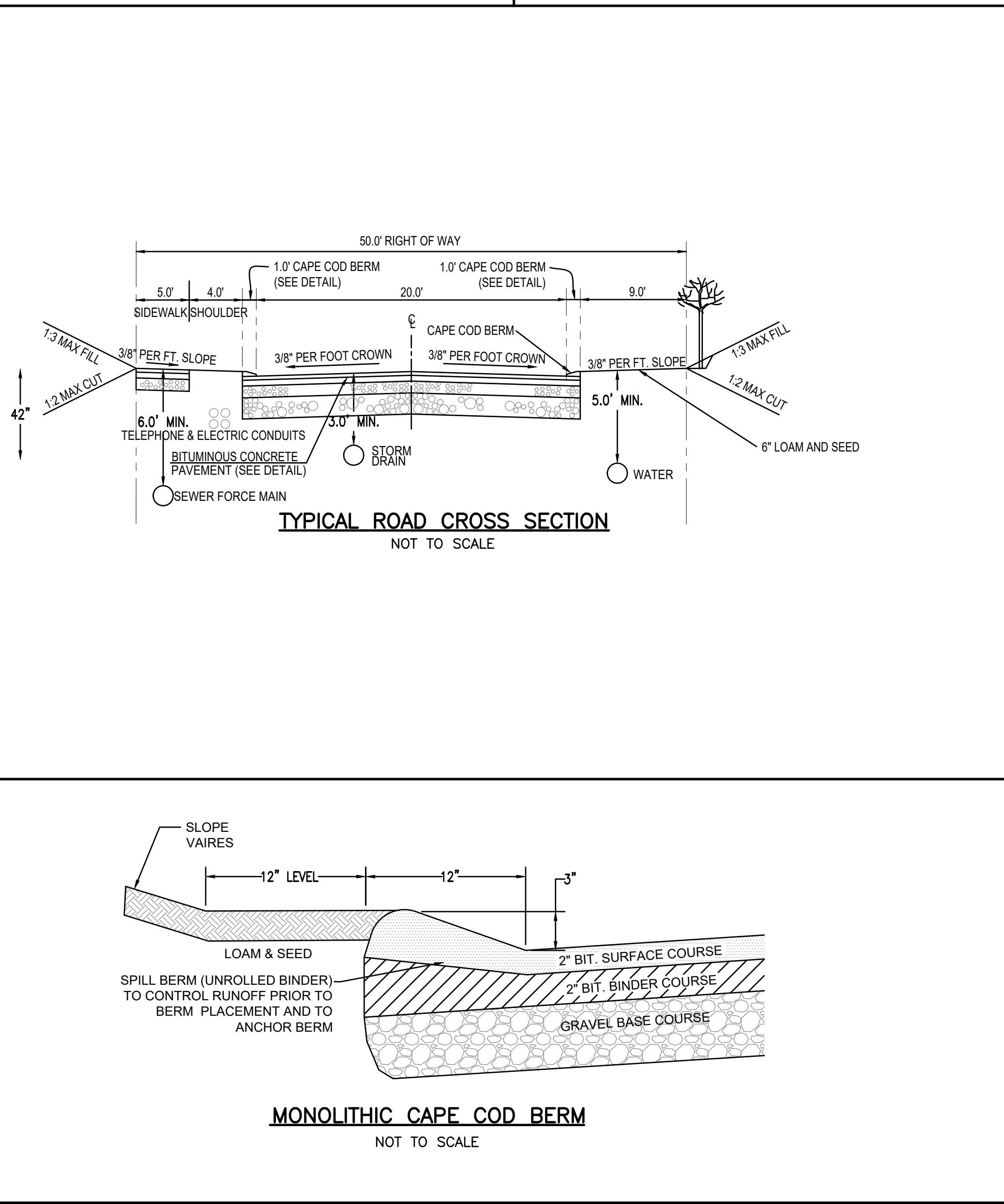
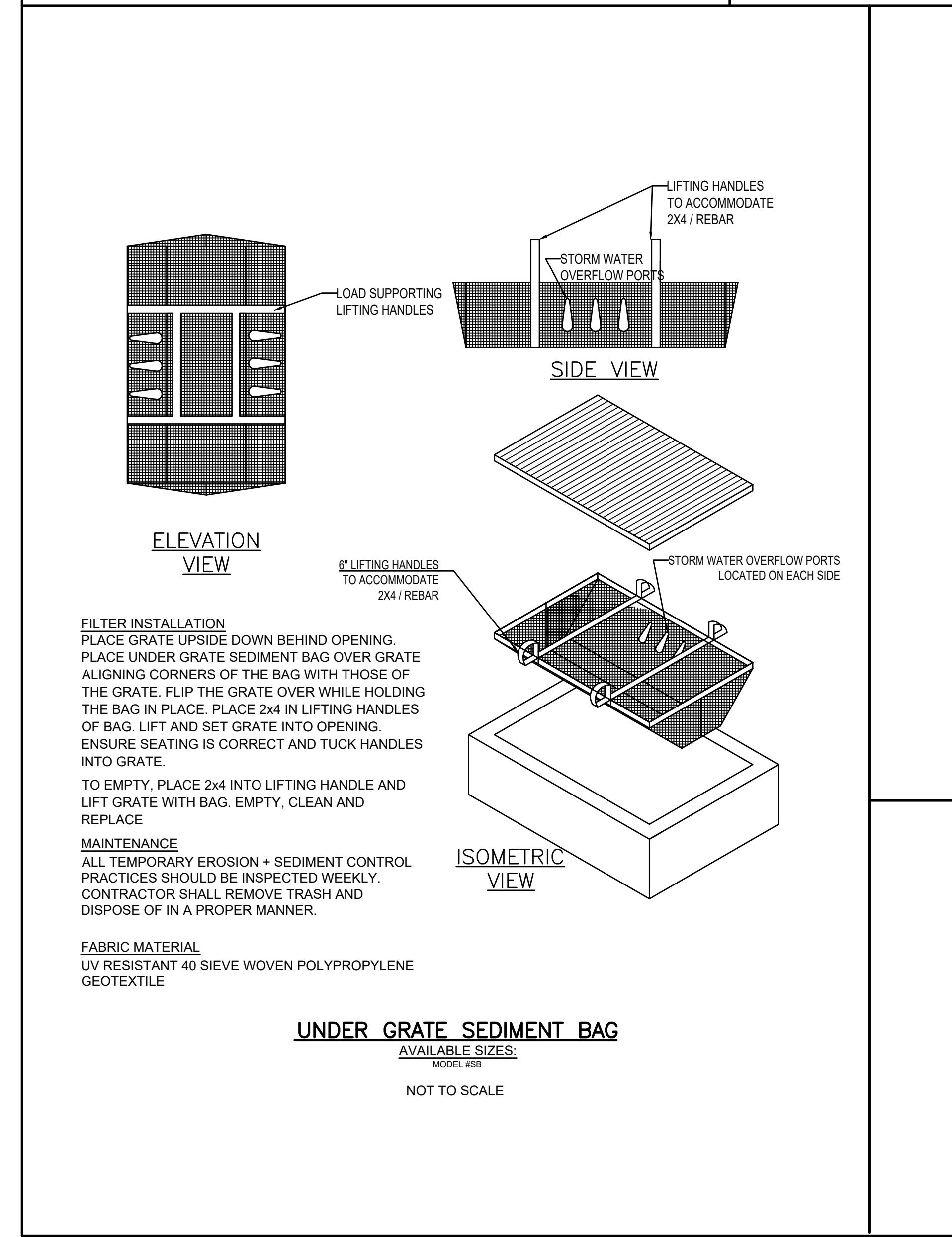
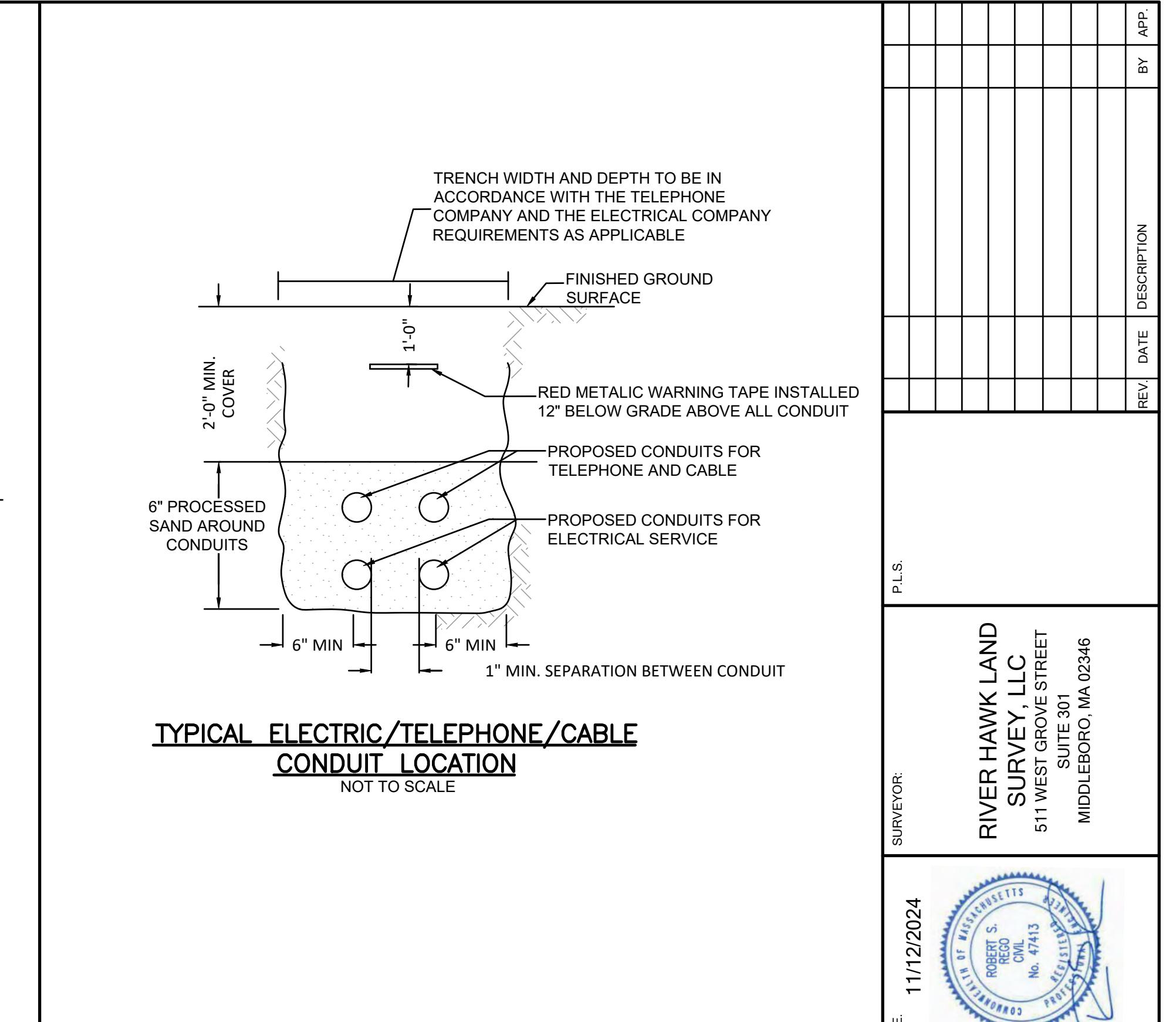
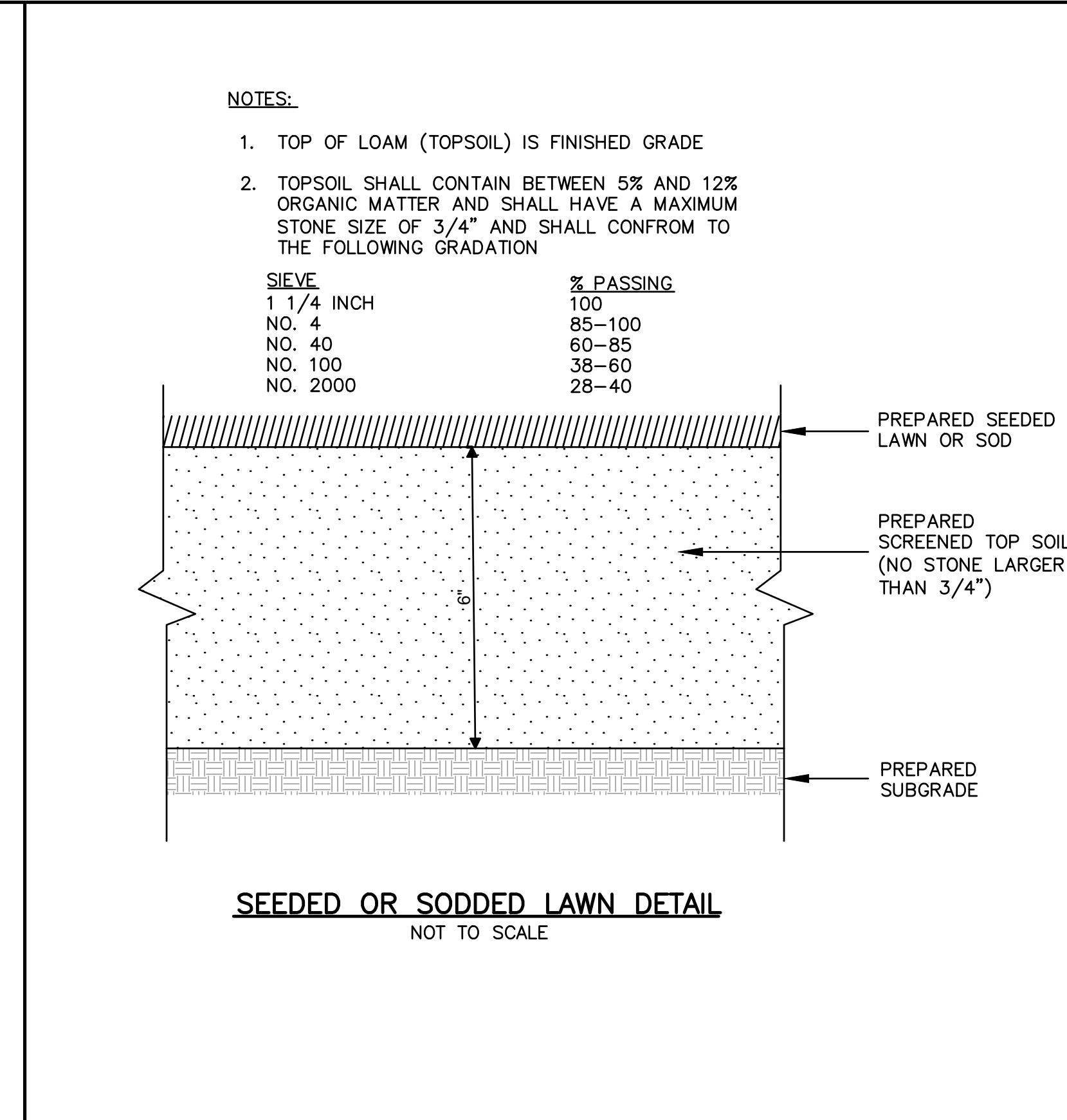
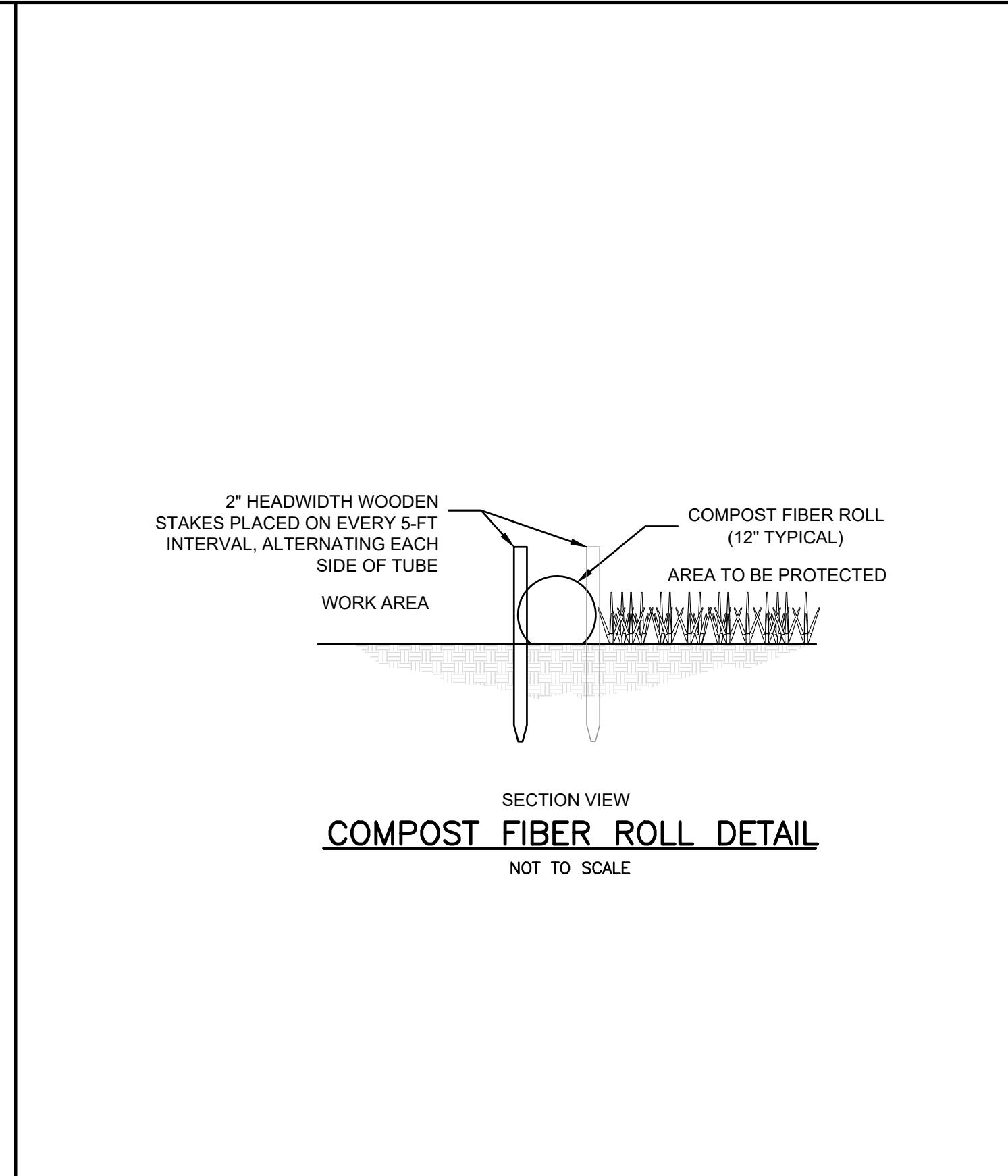
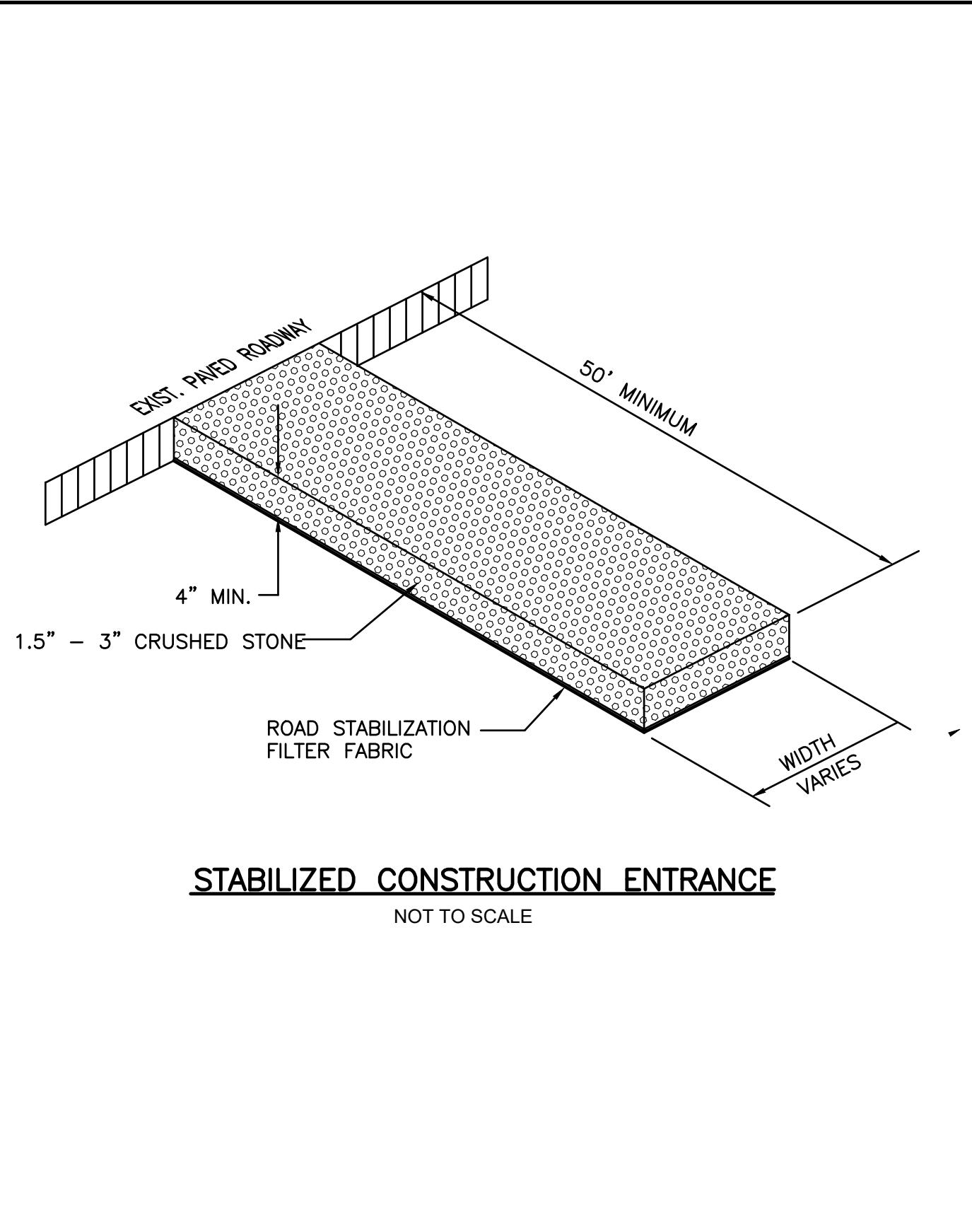


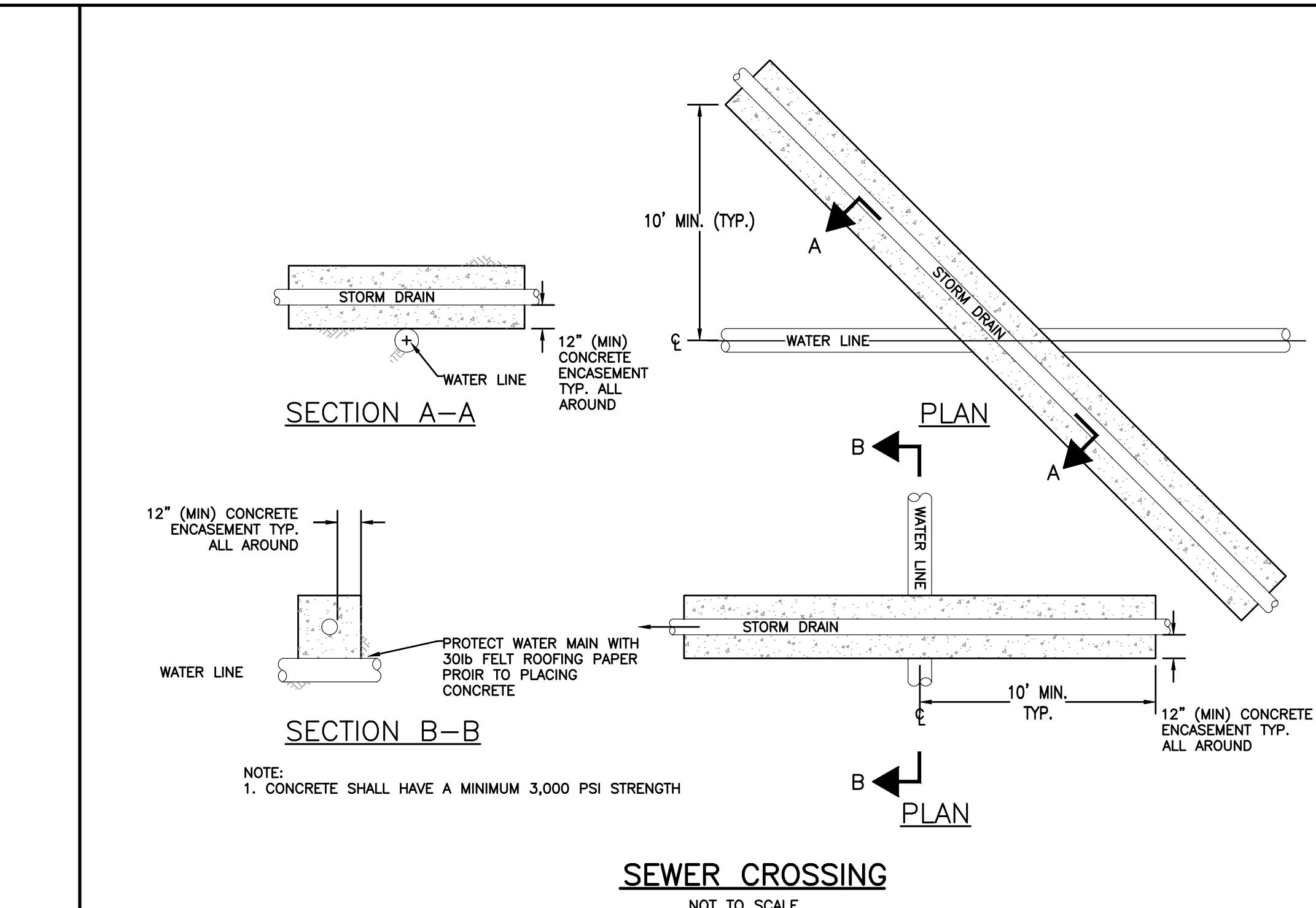
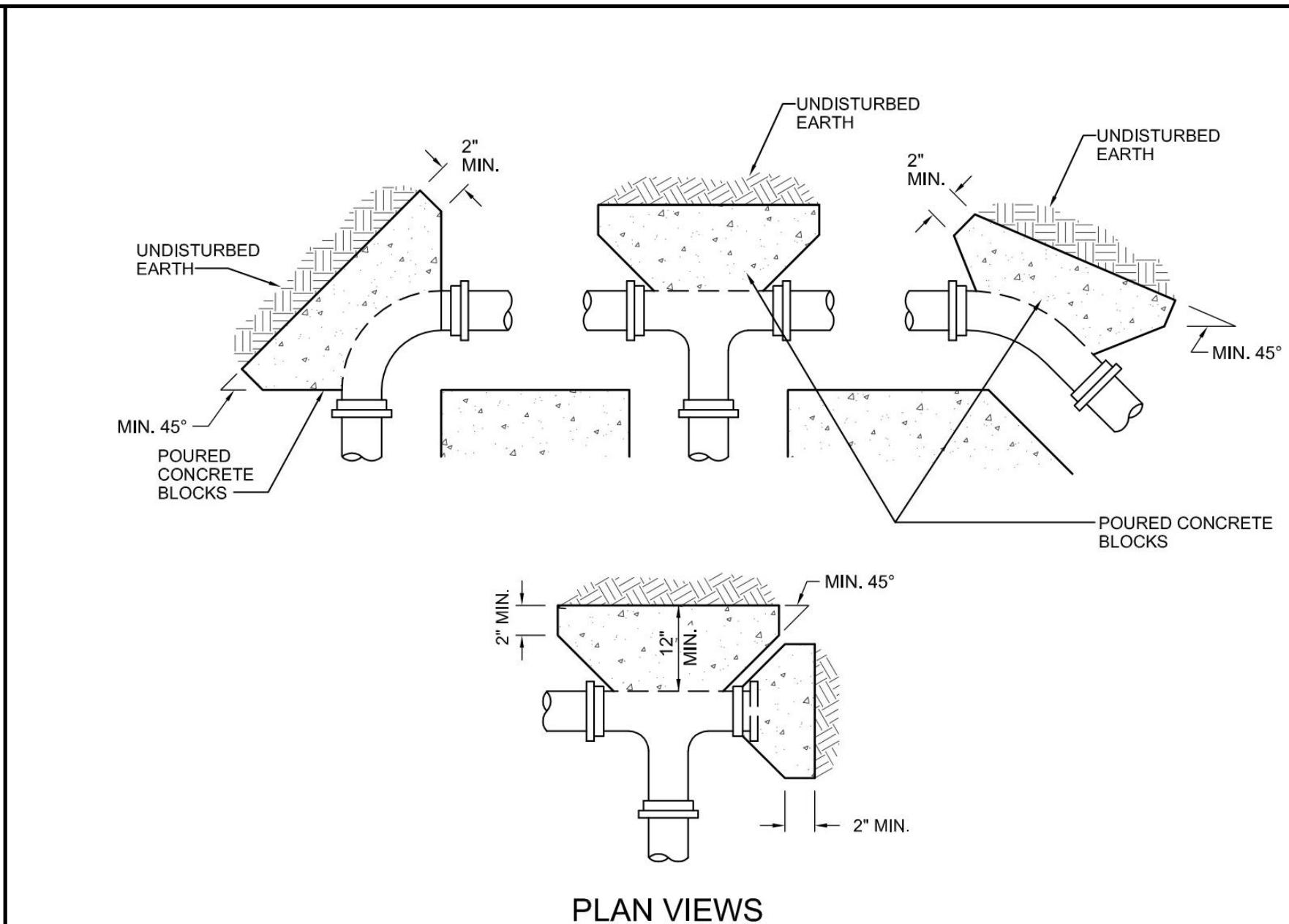
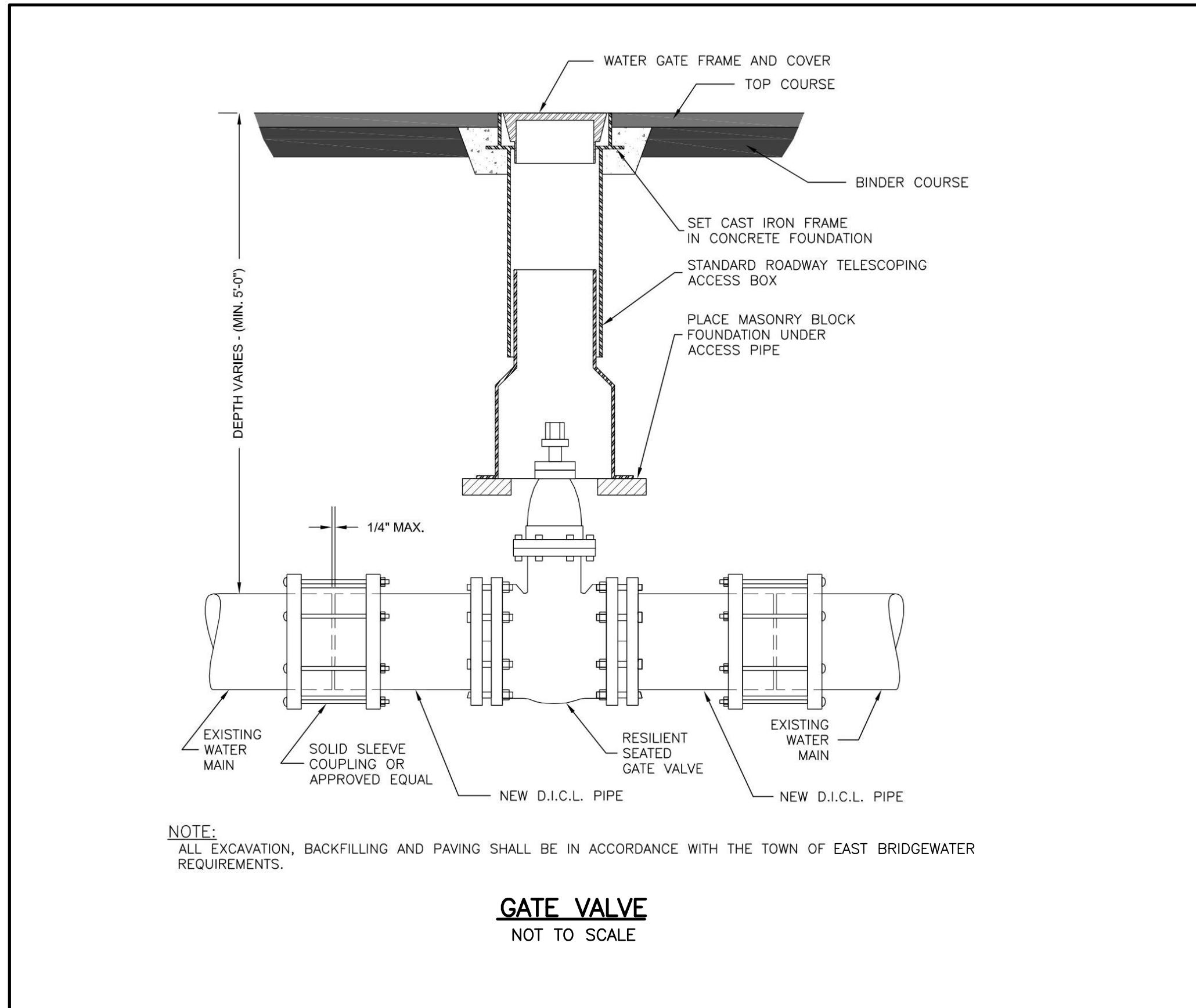
ALMEIDA LANE - PROFILE VIEW

HORIZ. SCALE : 1" = 40'  
VERT. SCALE : 1" = 4'

DEFINITIVE SUBDIVISION		OWNER/APPLICANT:		RIVER HAWK ENVIRONMENTAL	
ALMEIDA LANE		T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE		SURVEYOR: RIVER HAWK LAND SURVEY, LLC 511 WEST GROVE STREET SUITE 301 MIDDLEBOROUGH, MA 02346	
PLAN AND PROFILE - ROAD A		PROJECT NO. 00575-01-02		P.E. 11/12/2024	
DATE: NOV. 12, 2024	SCALE: AS SHOWN	DESIGNED BY: RSR	CHECKED BY: RSR	APPROVED BY: RSR	APR
REV. DATE:	DESCRIPTION:	BY:	BY:	BY:	APR

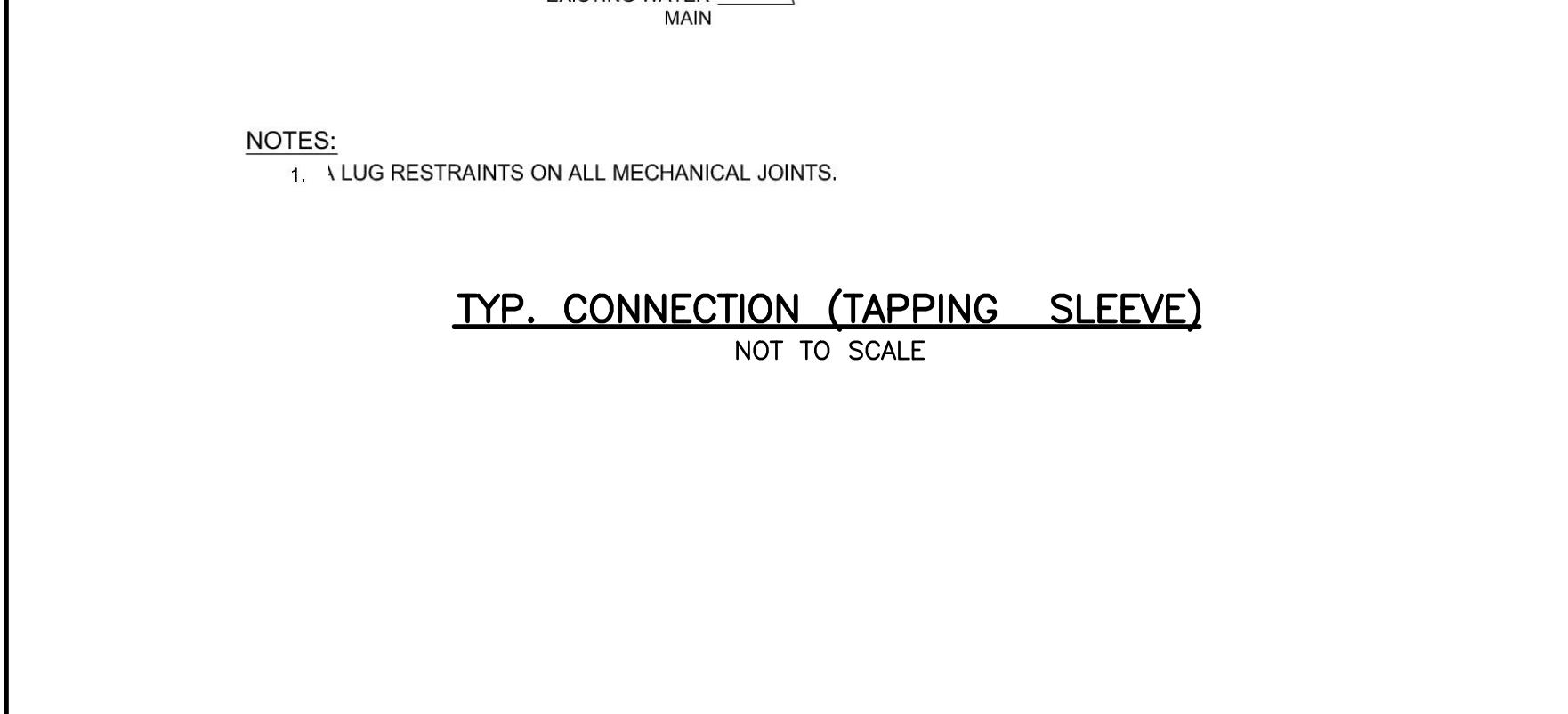
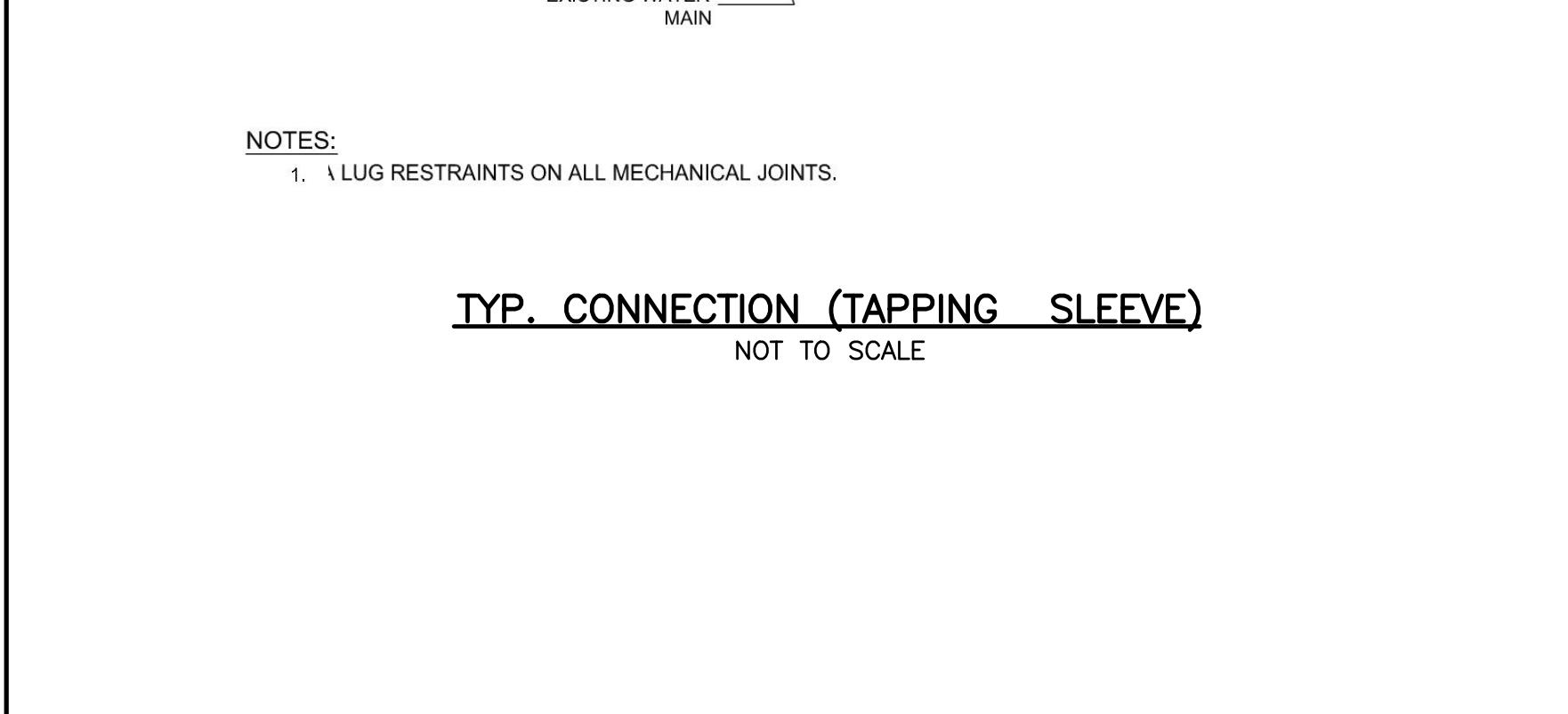
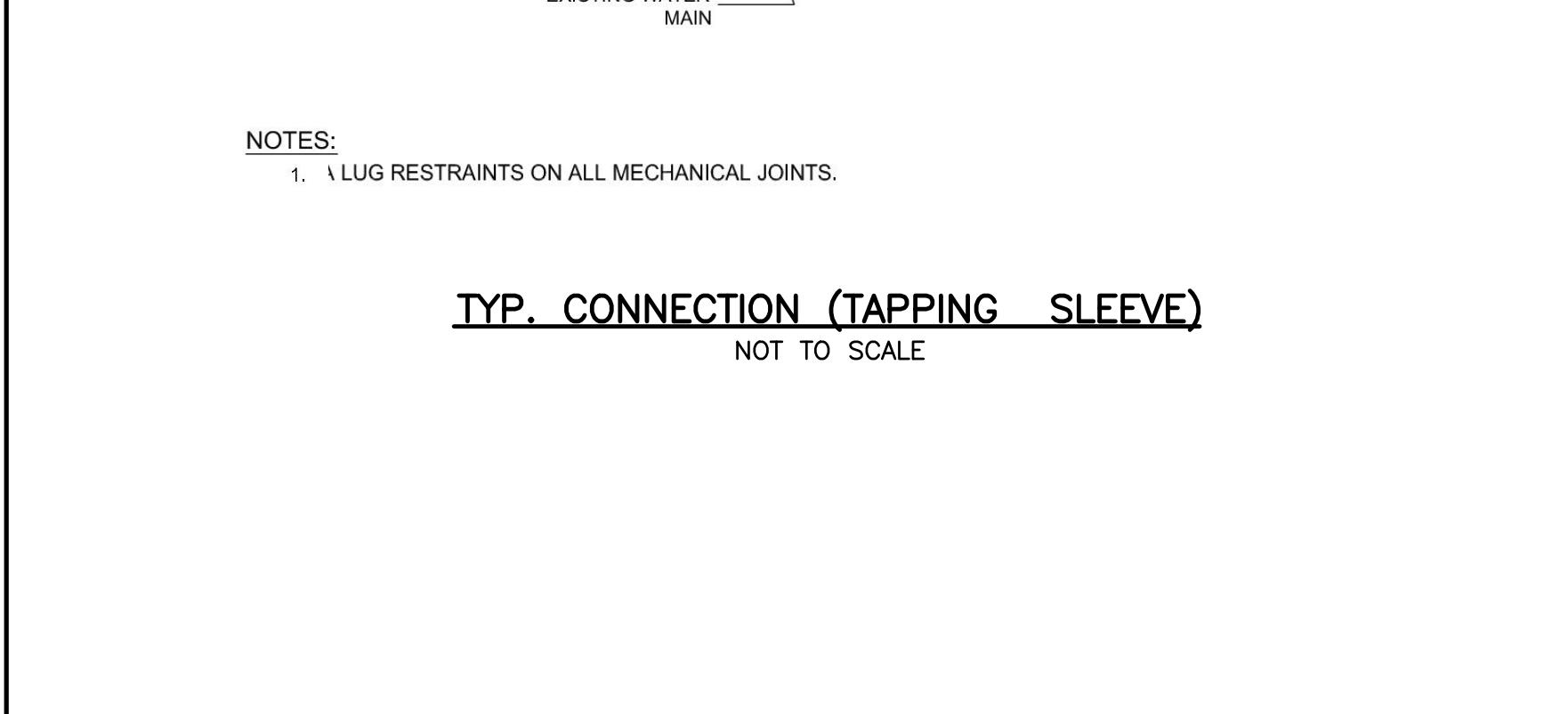
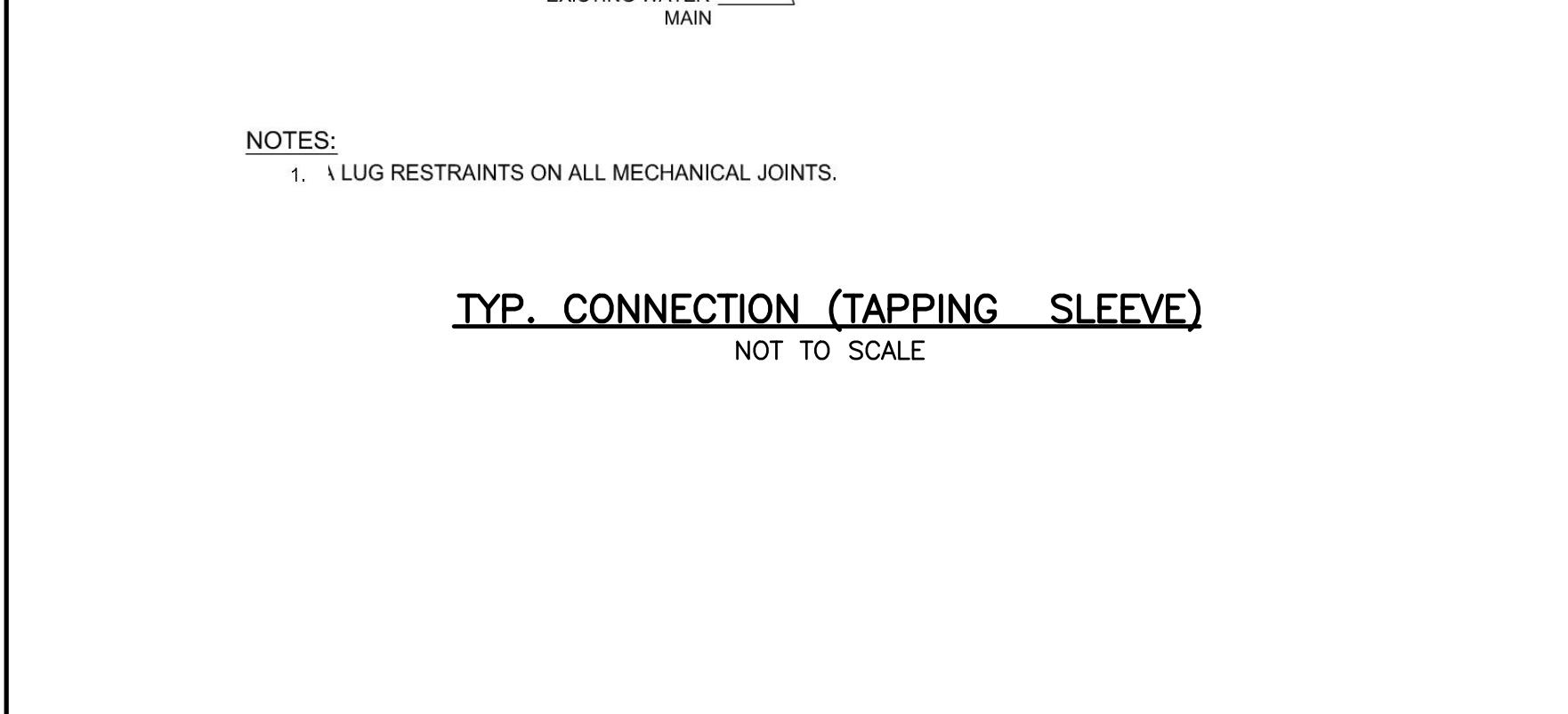
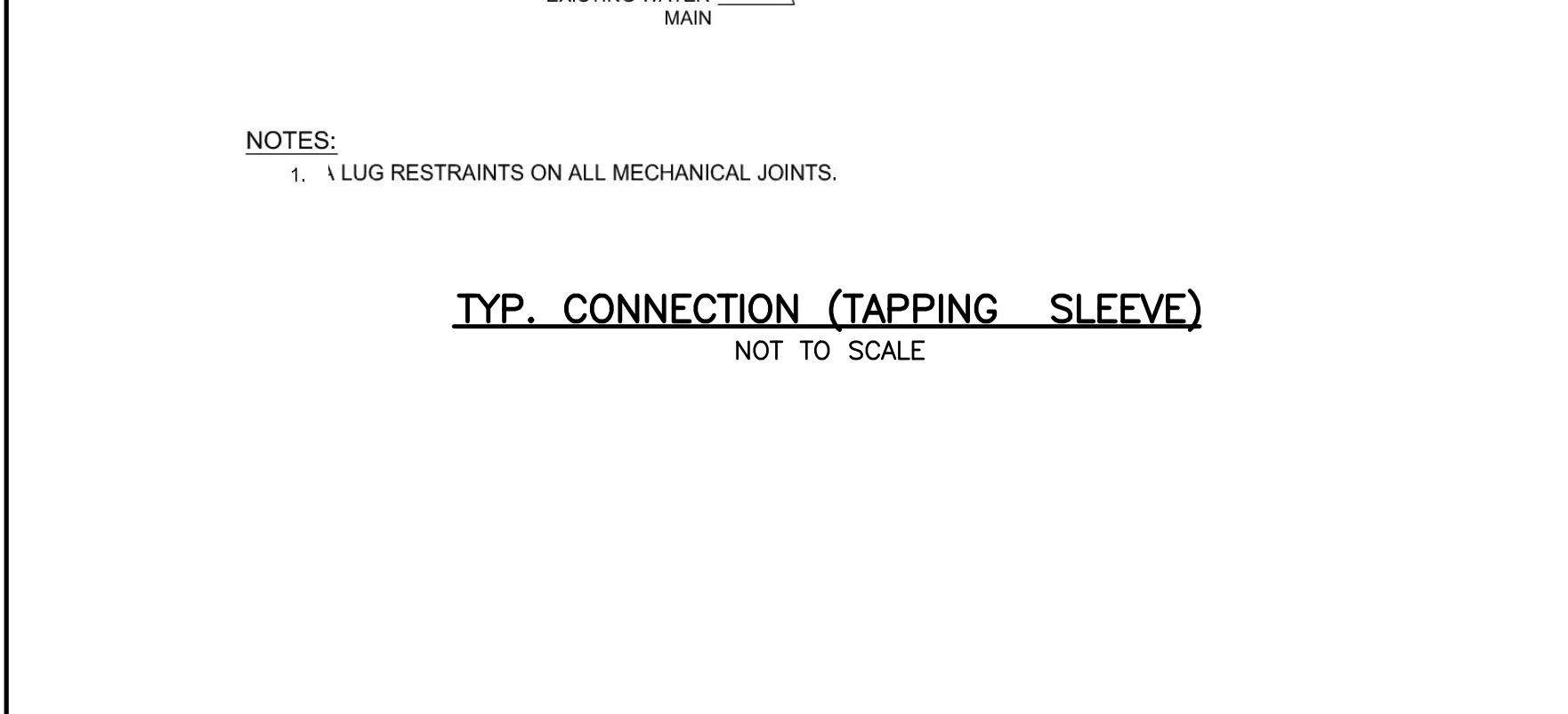
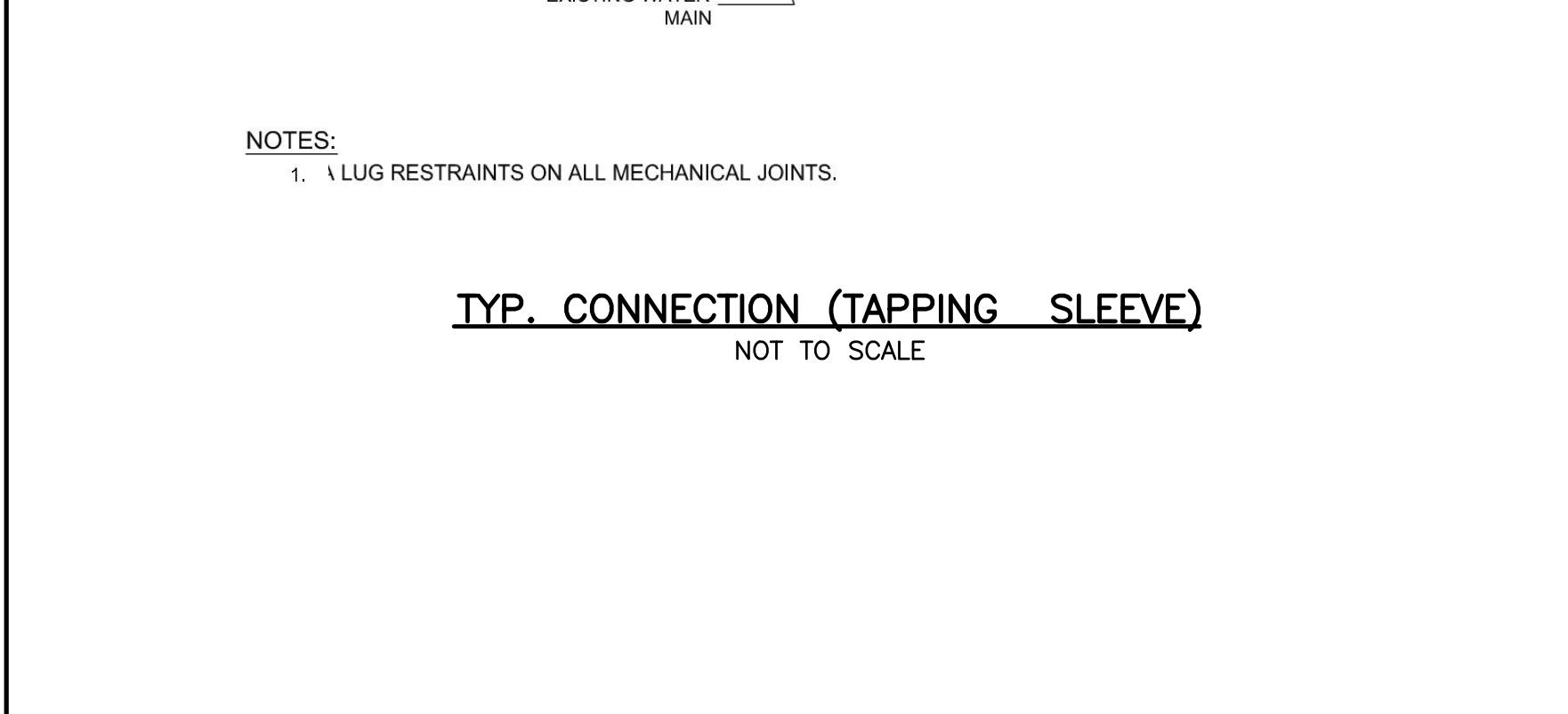
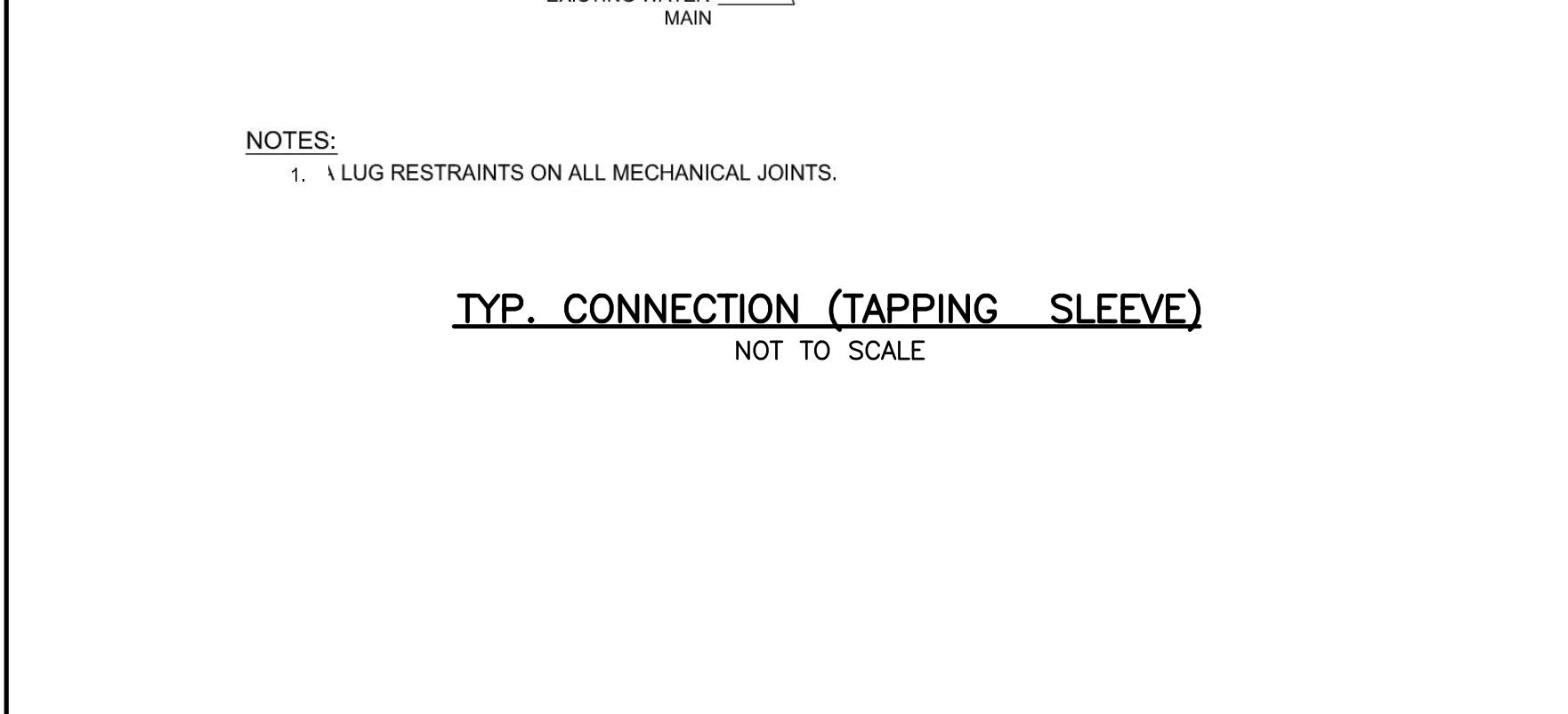
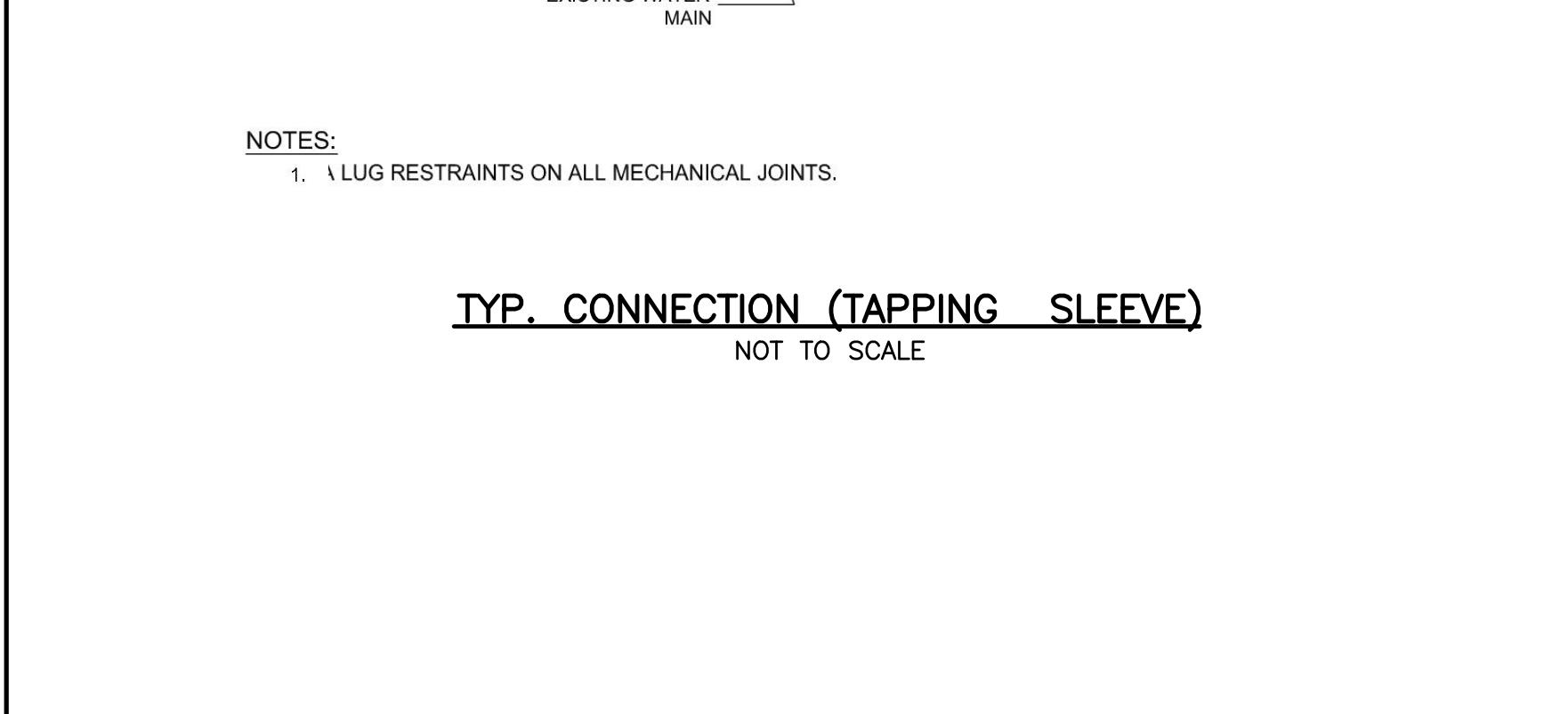
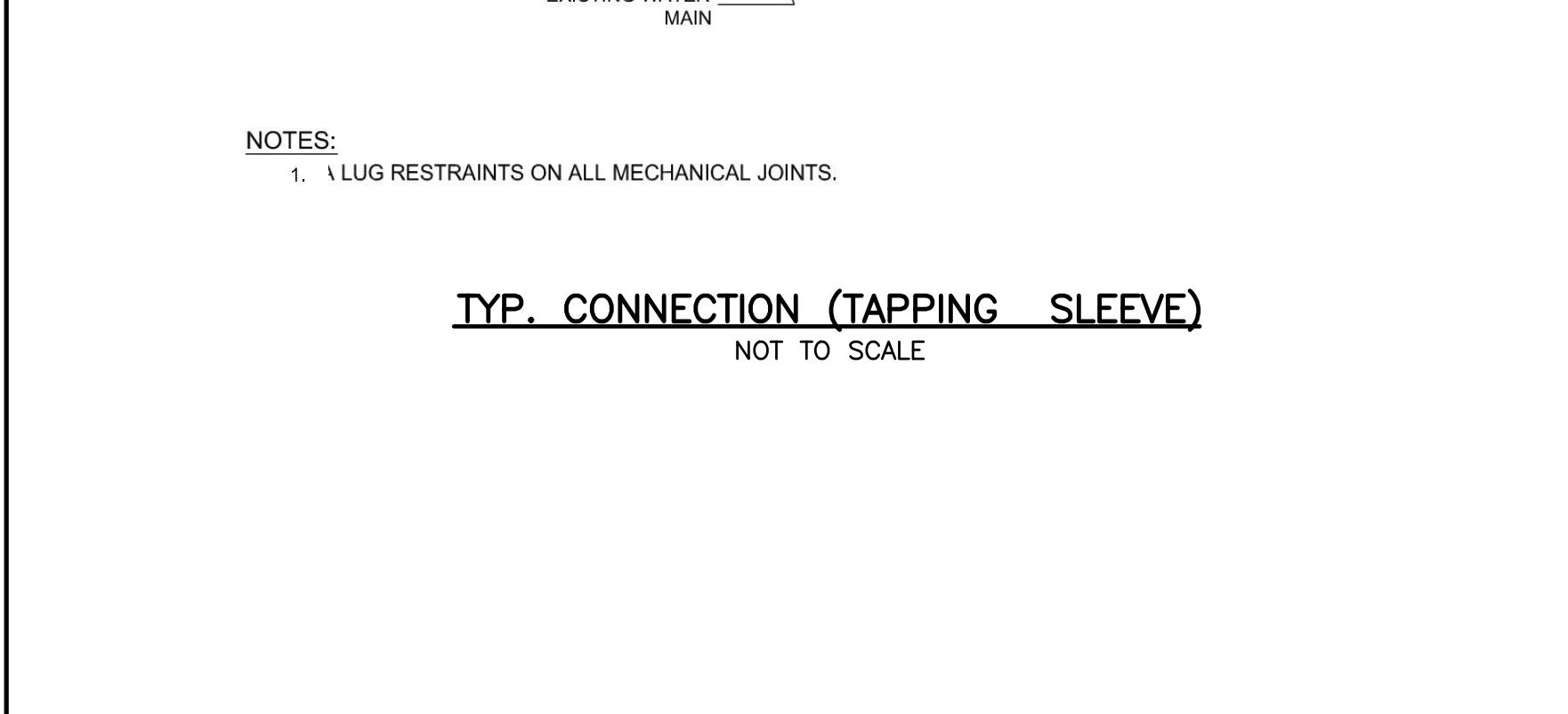
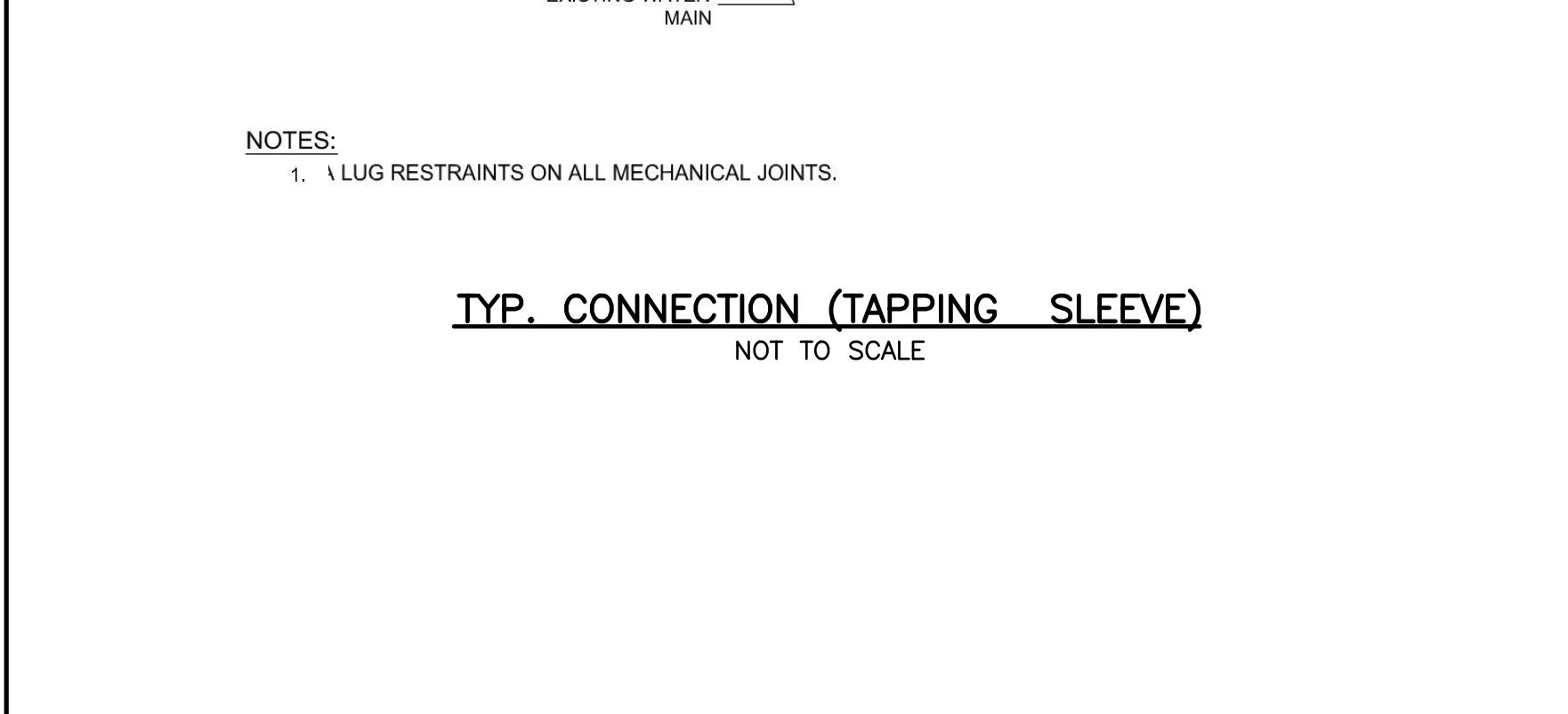
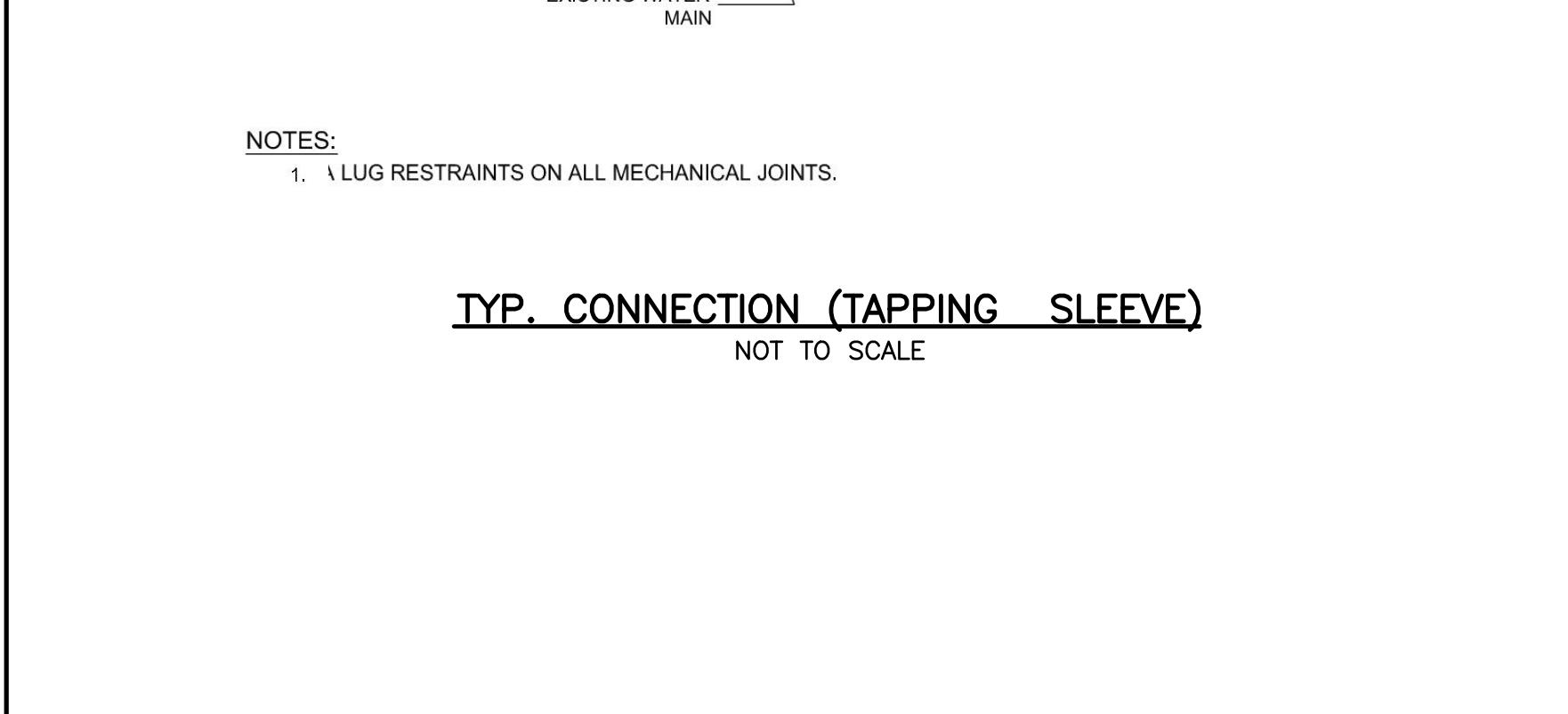
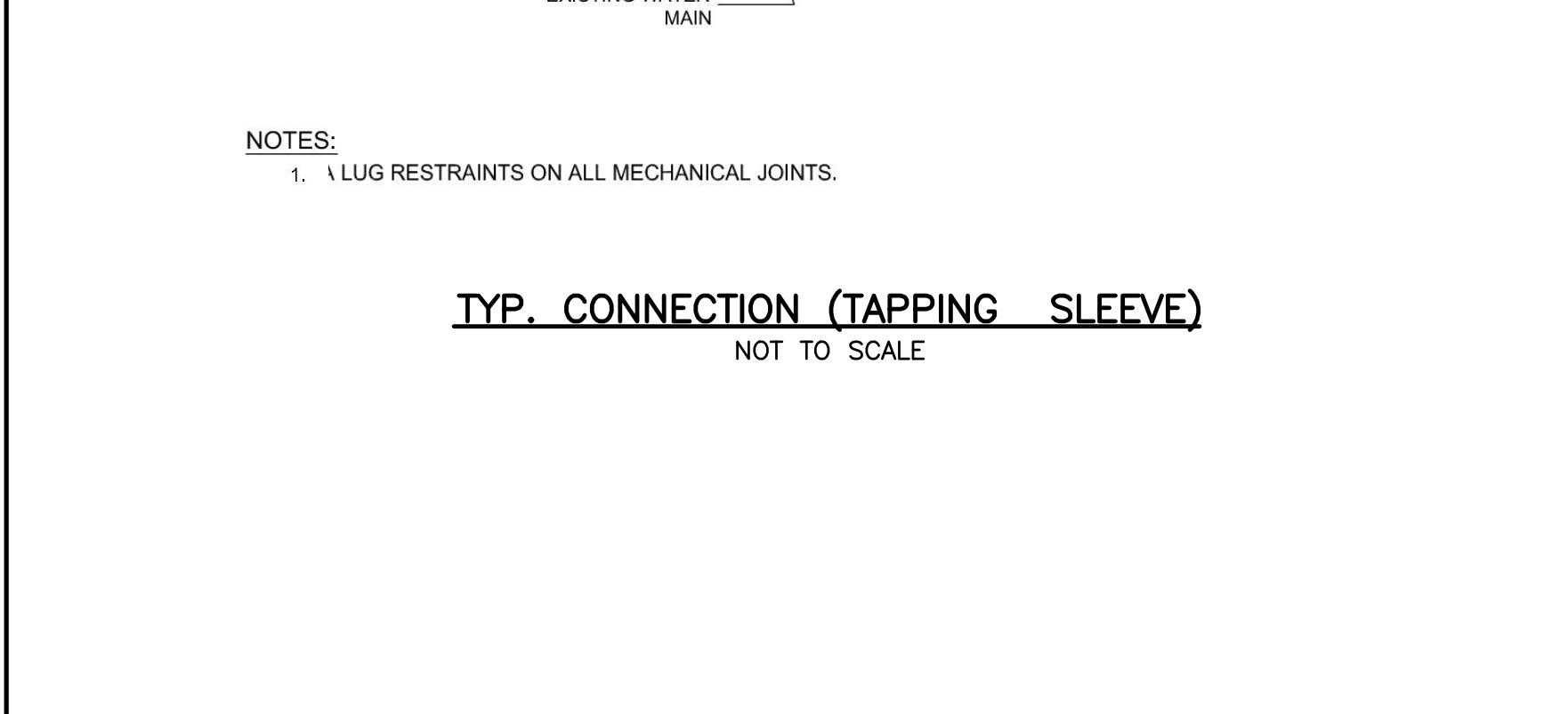
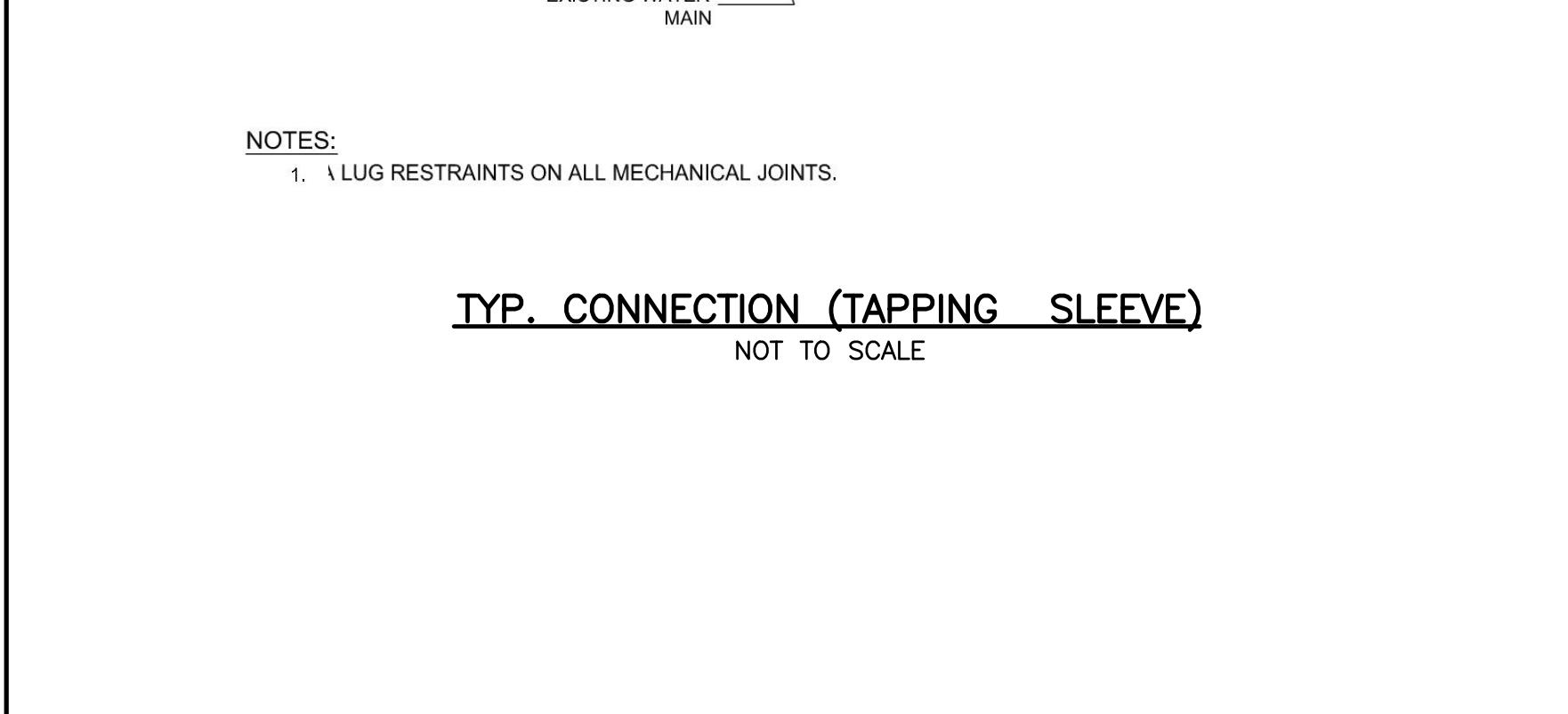
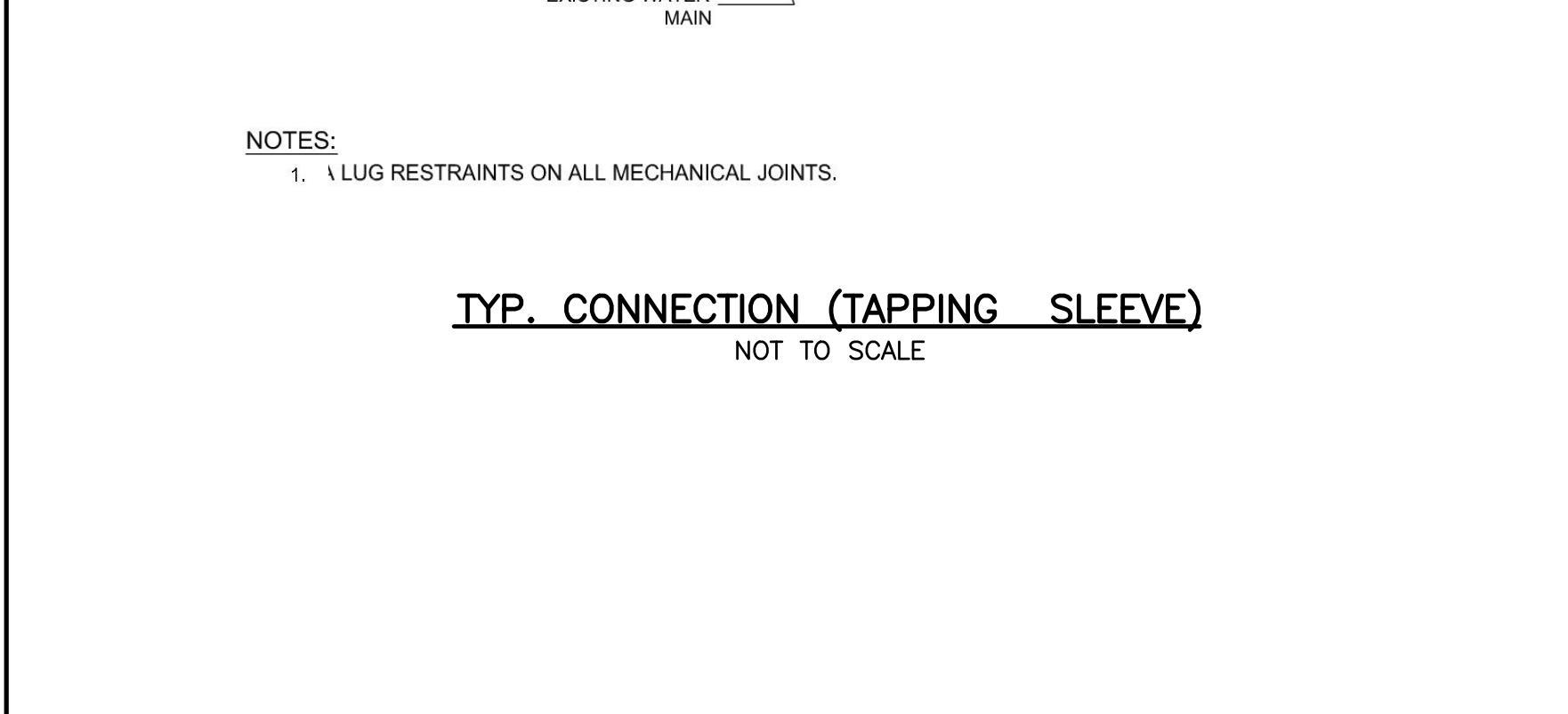
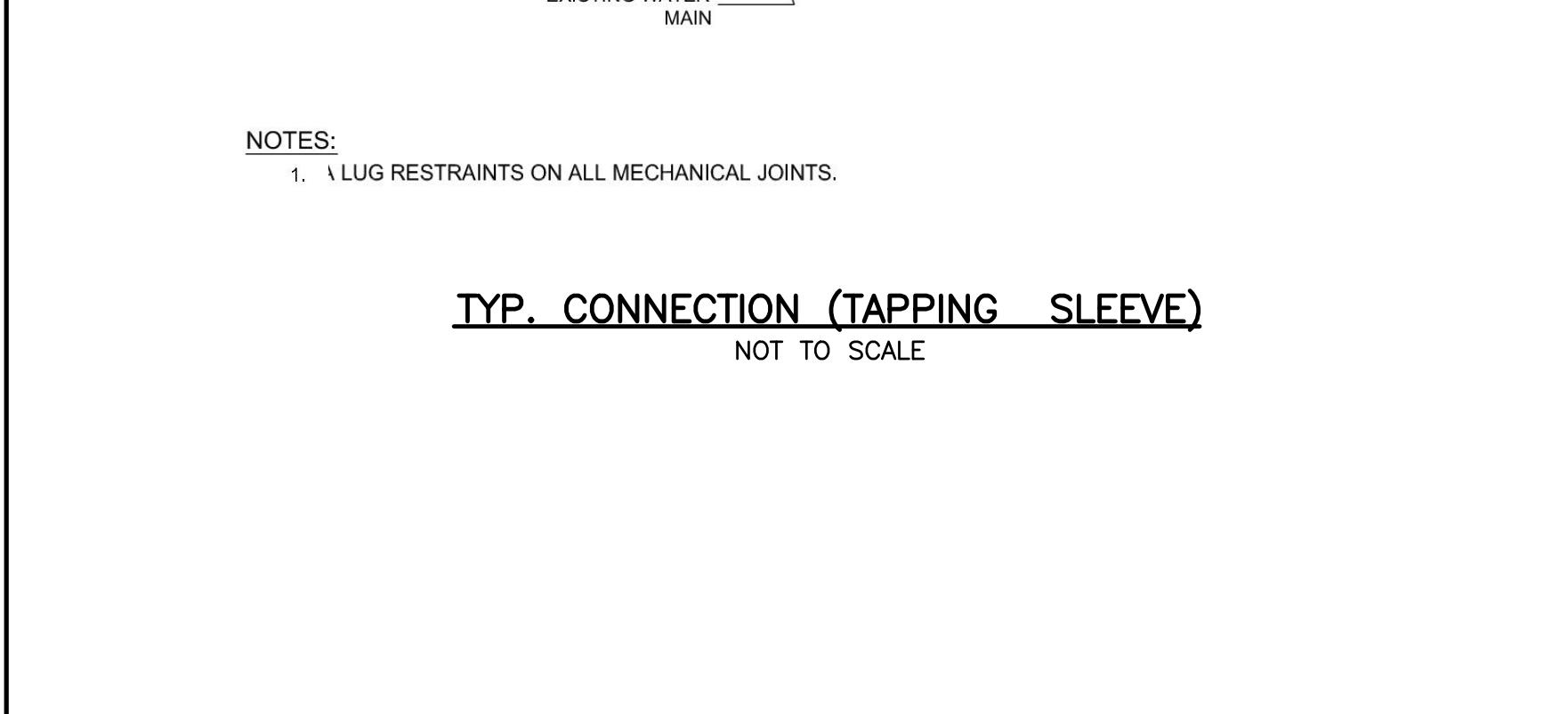
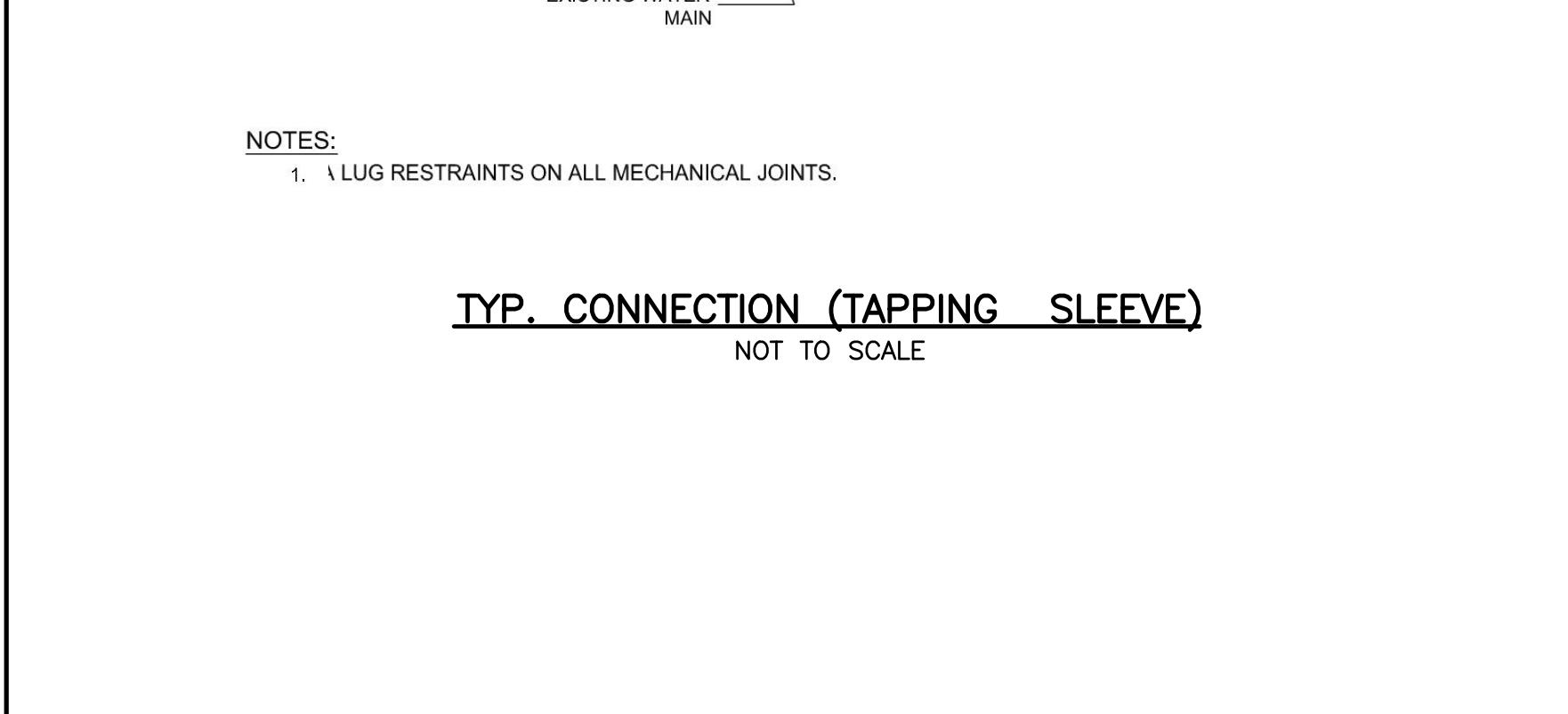
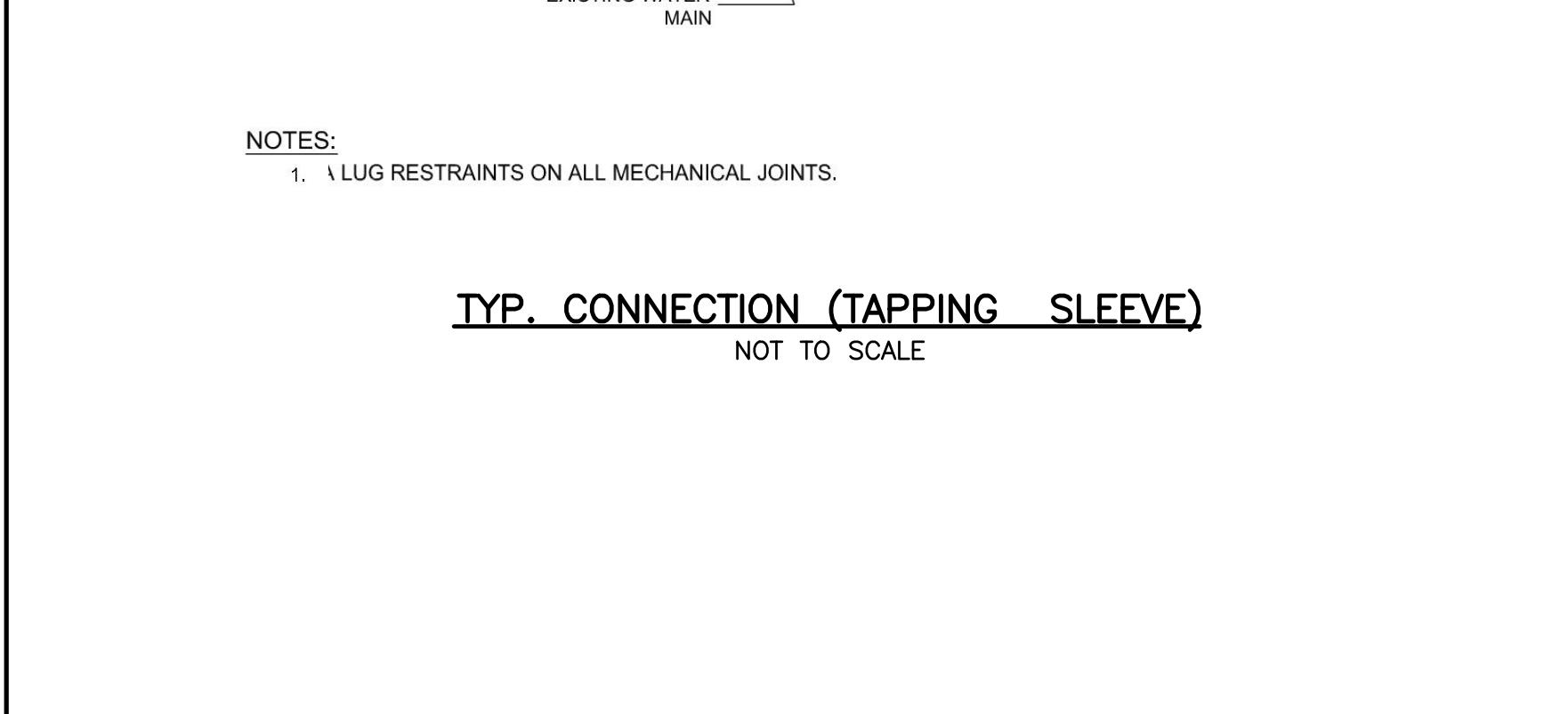
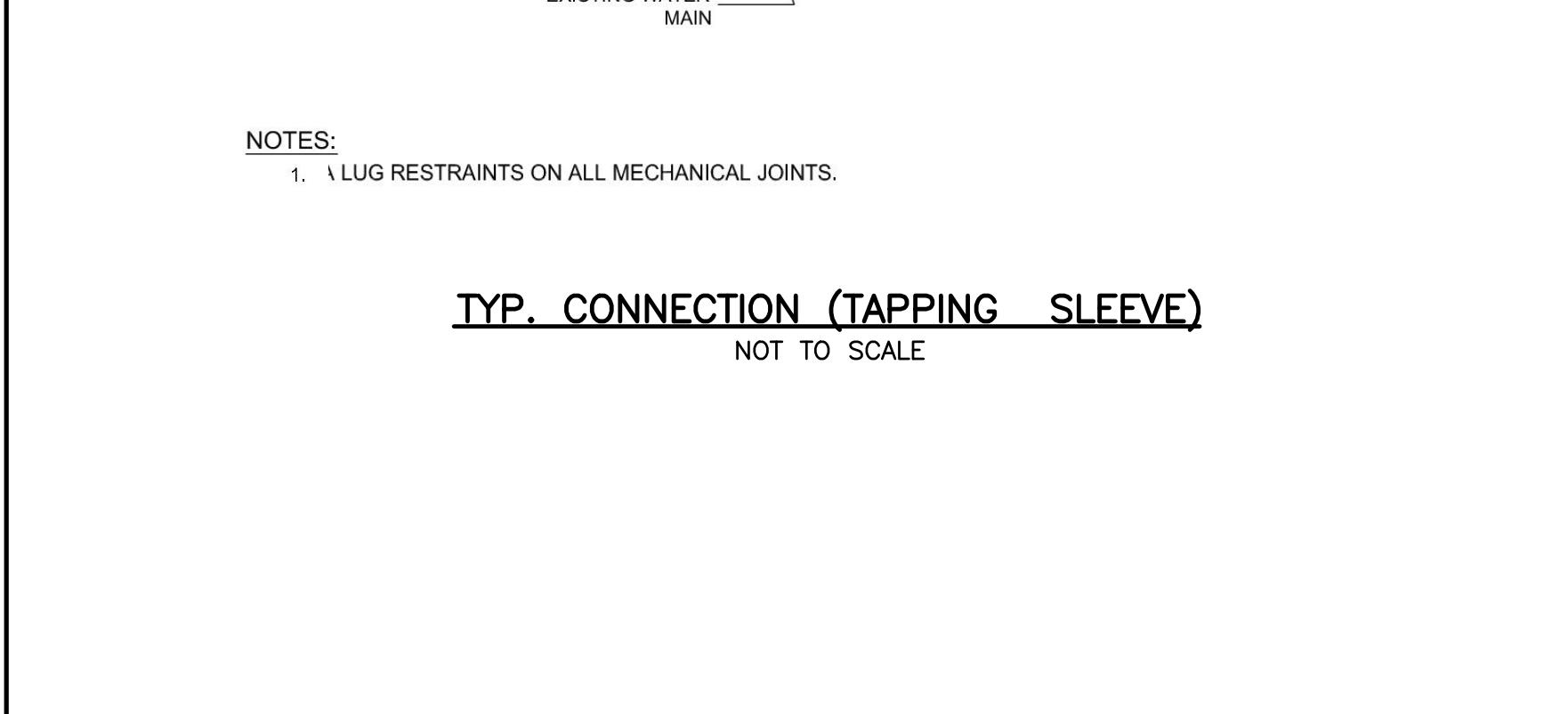
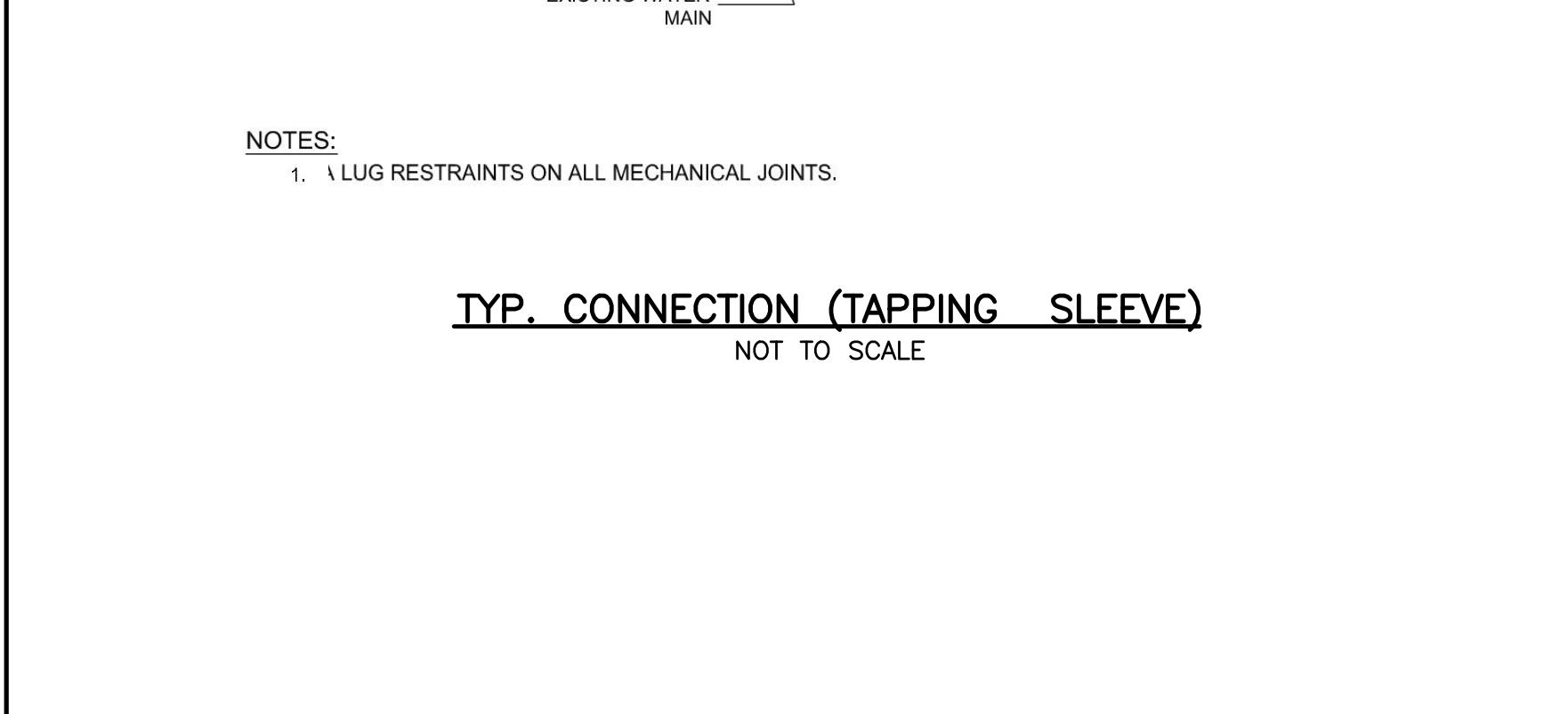
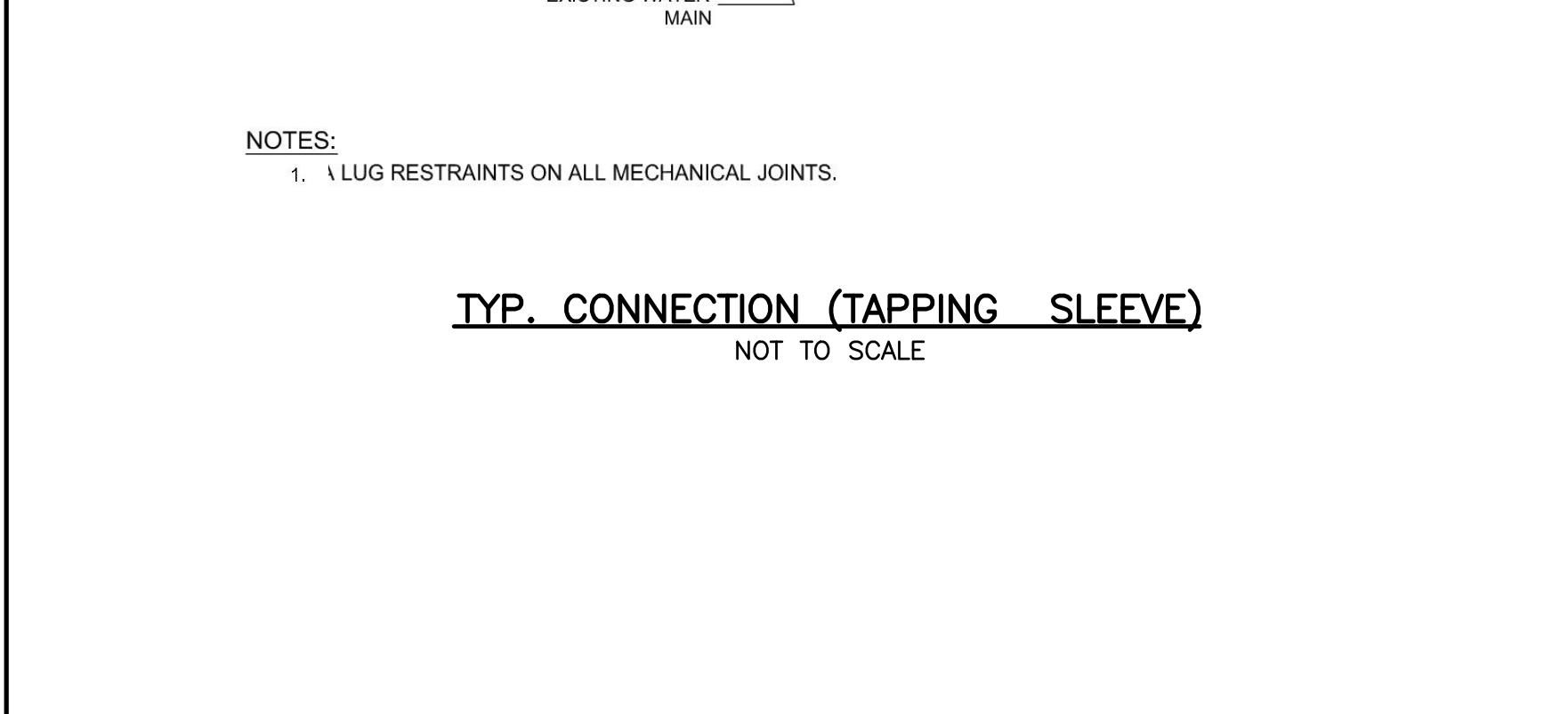
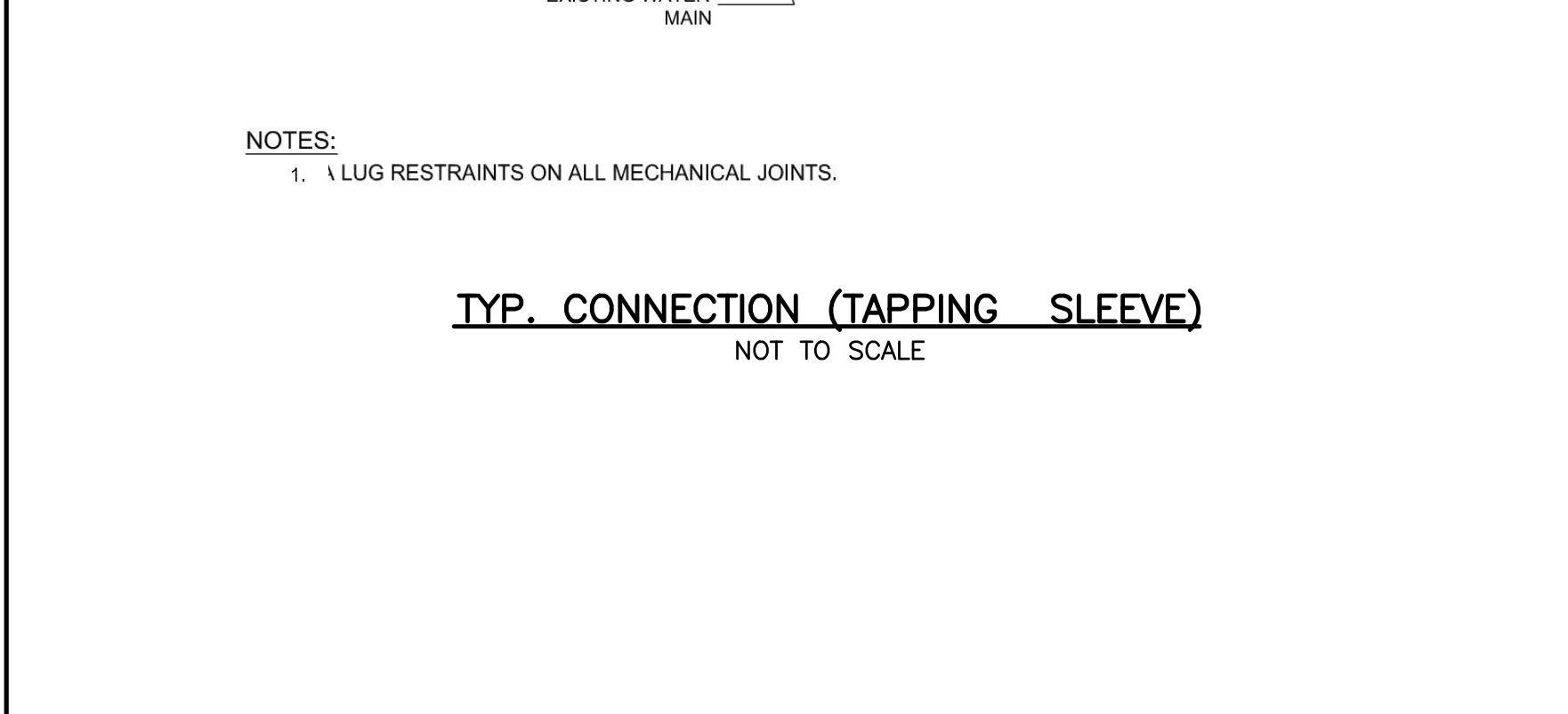
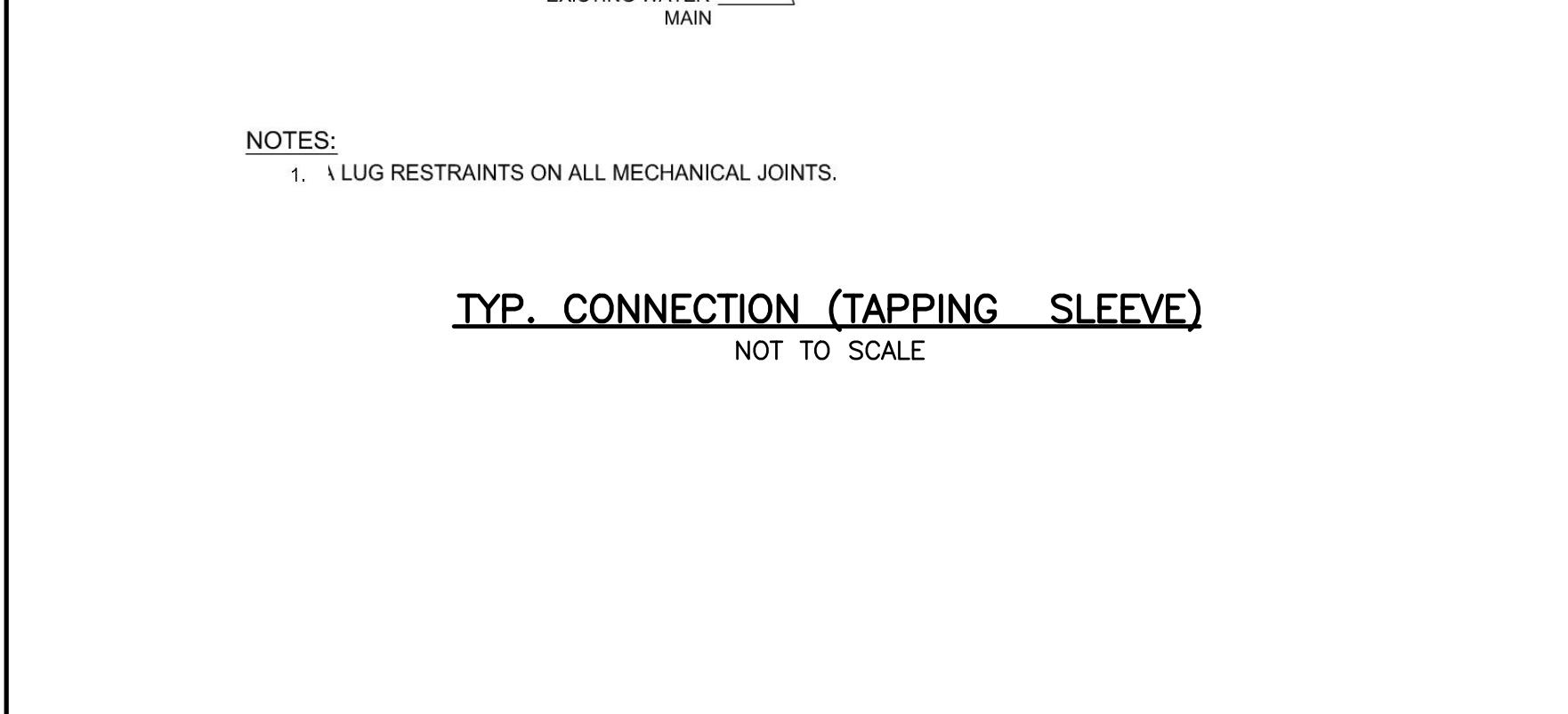
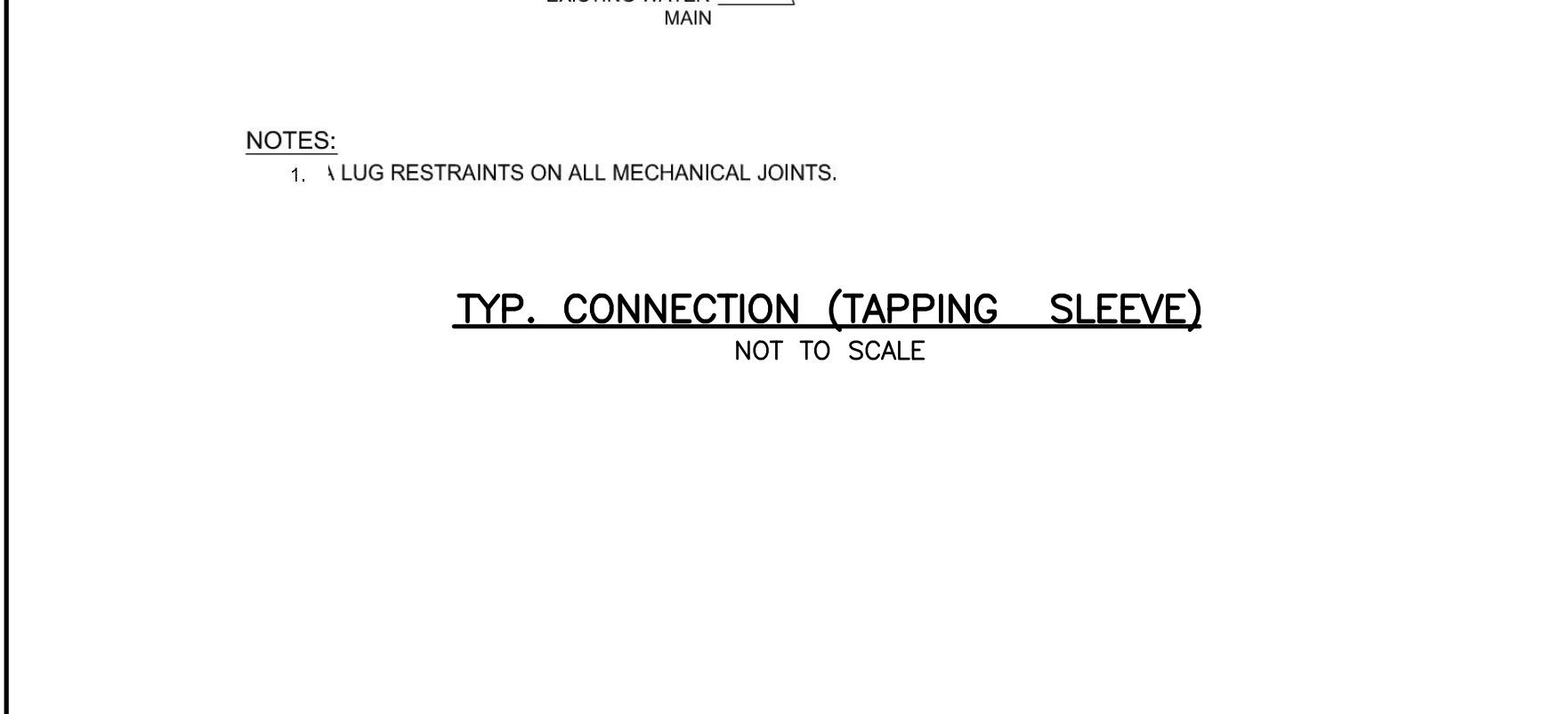
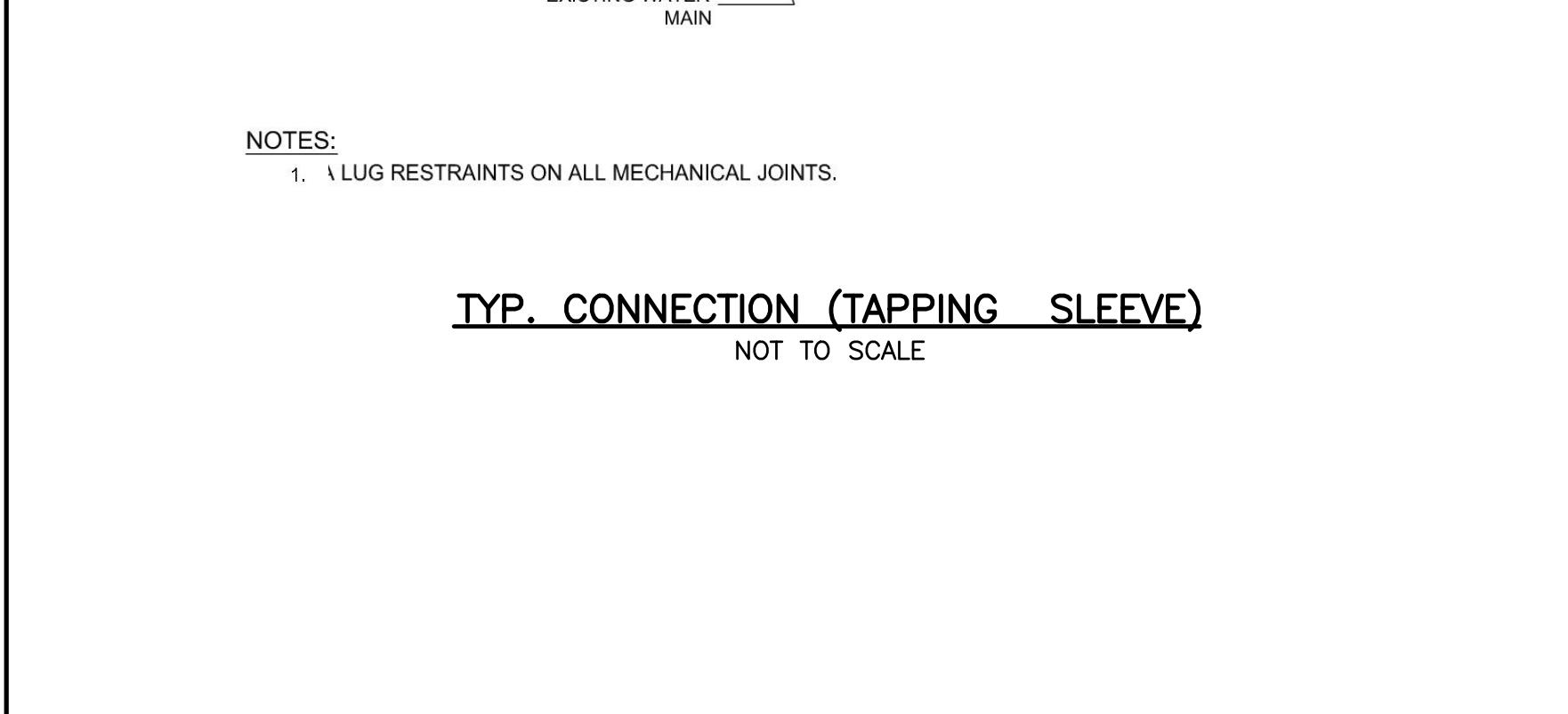
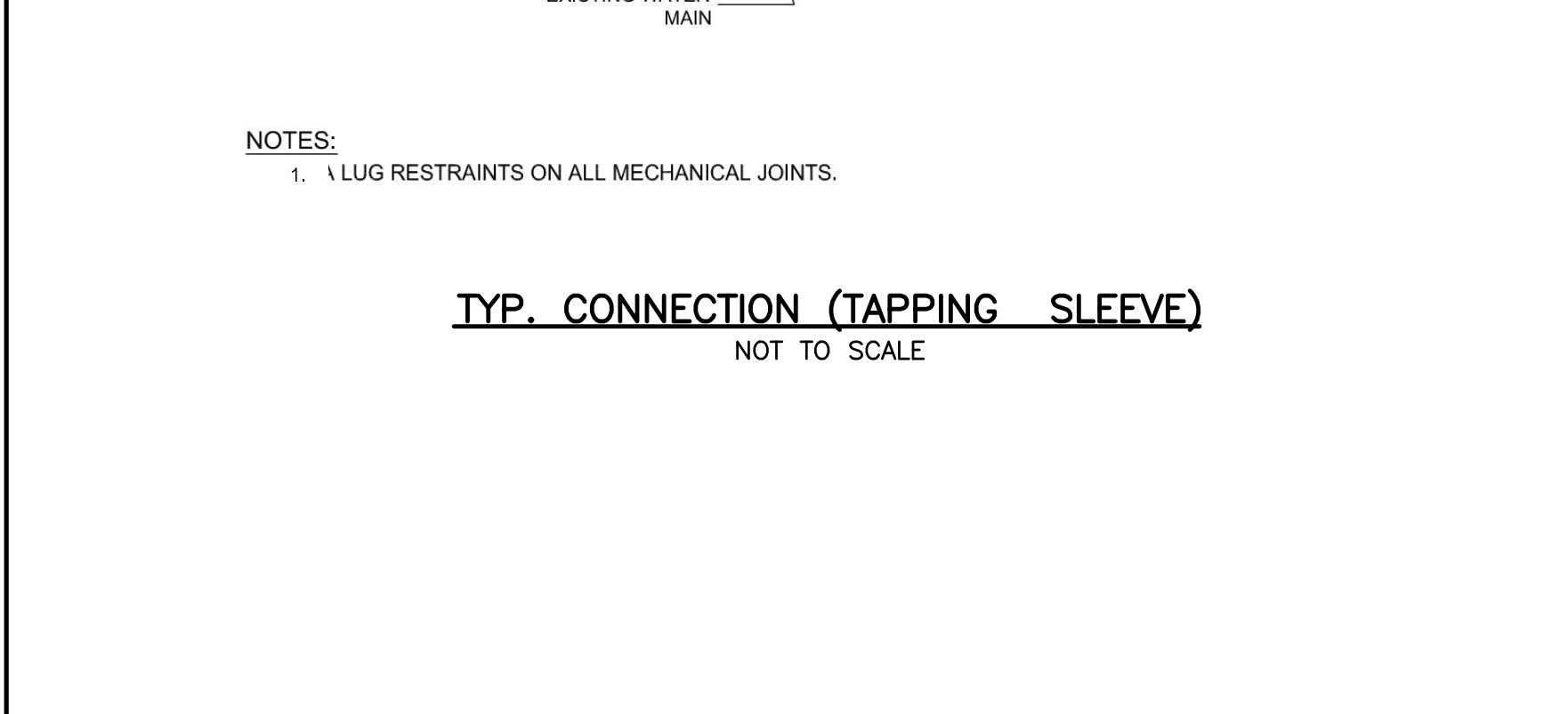
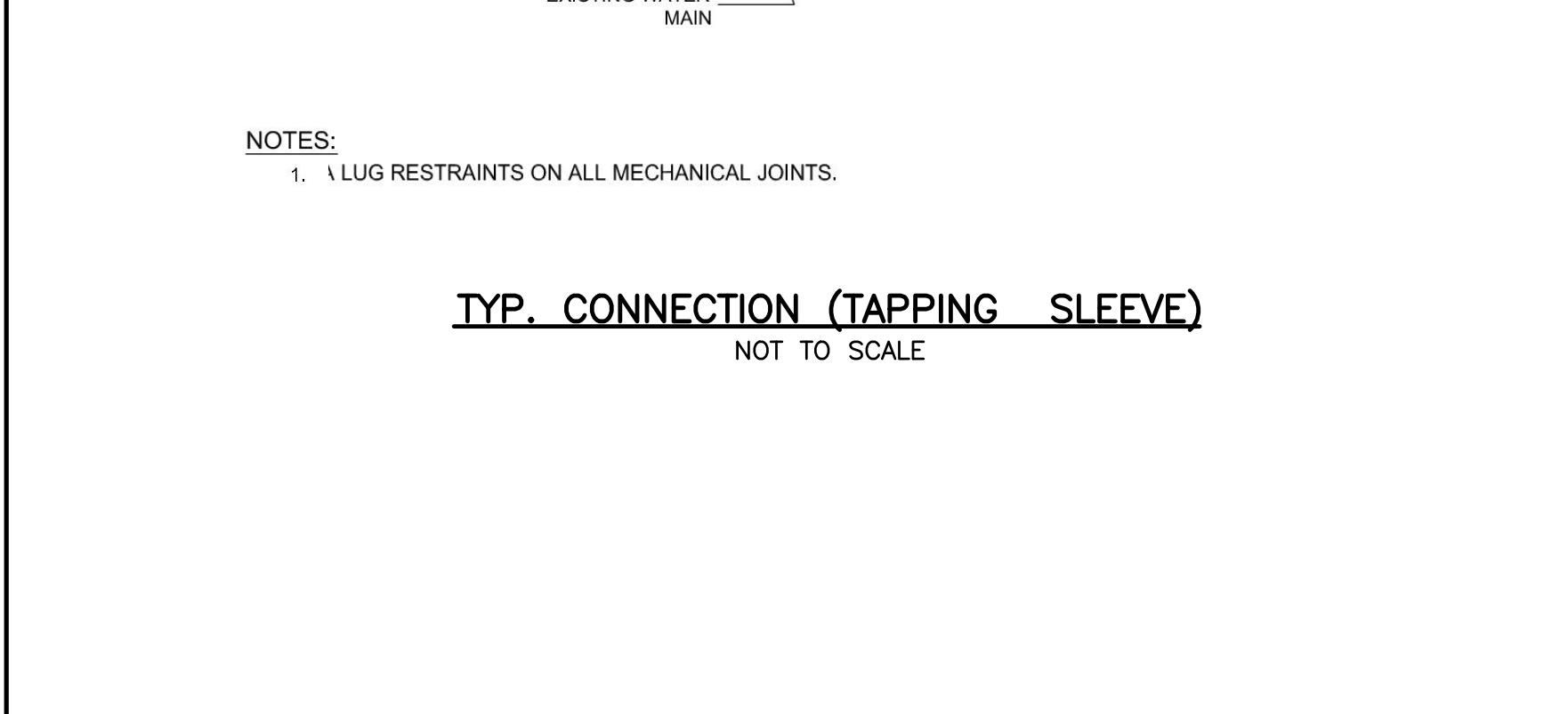
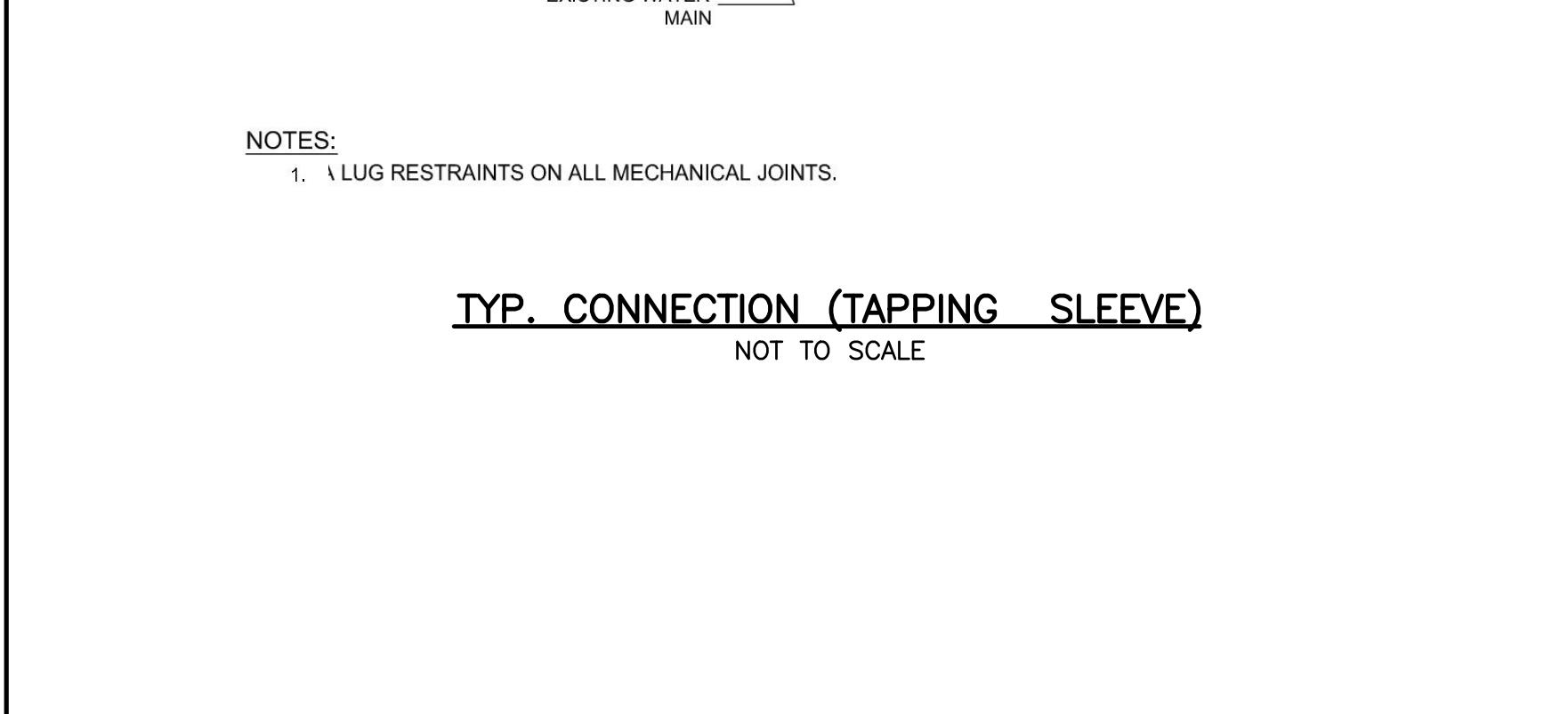
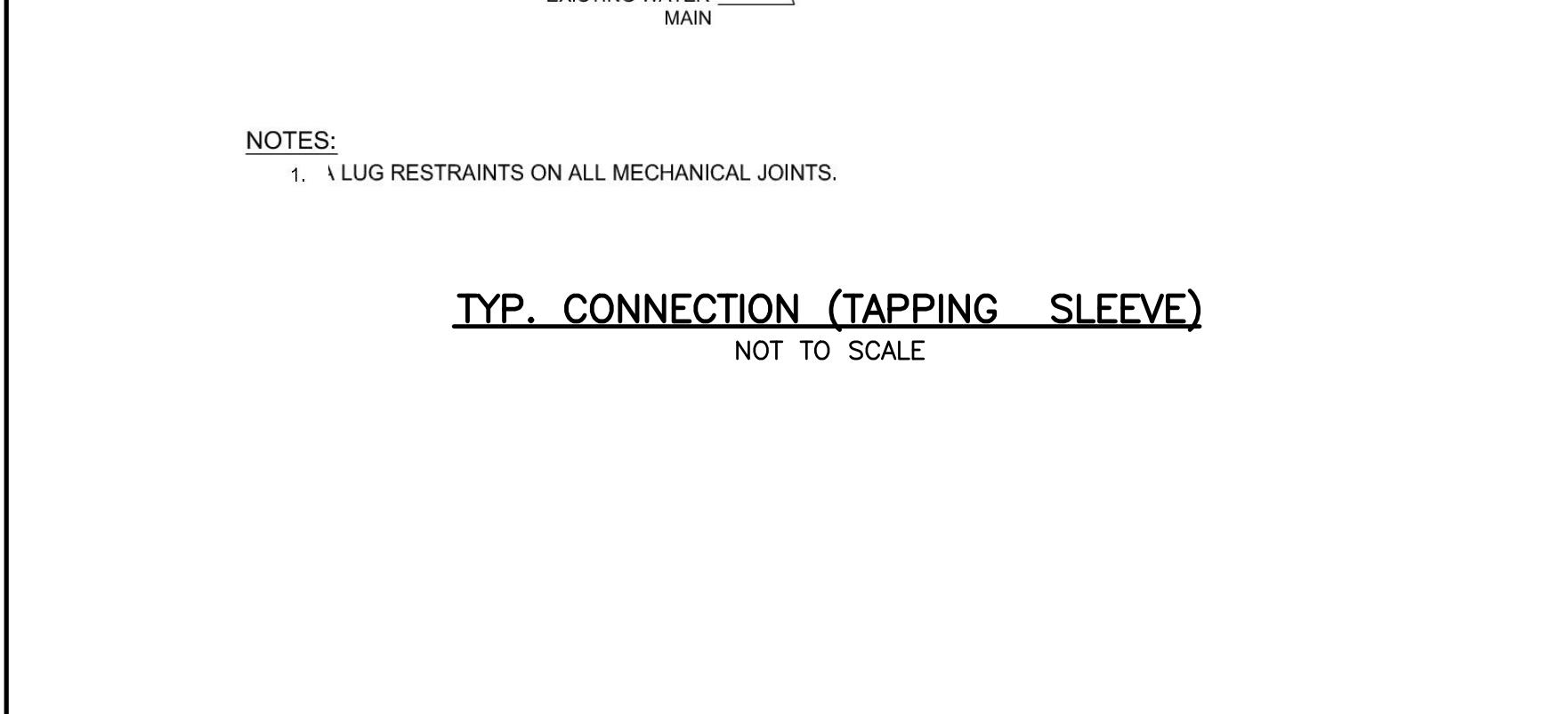
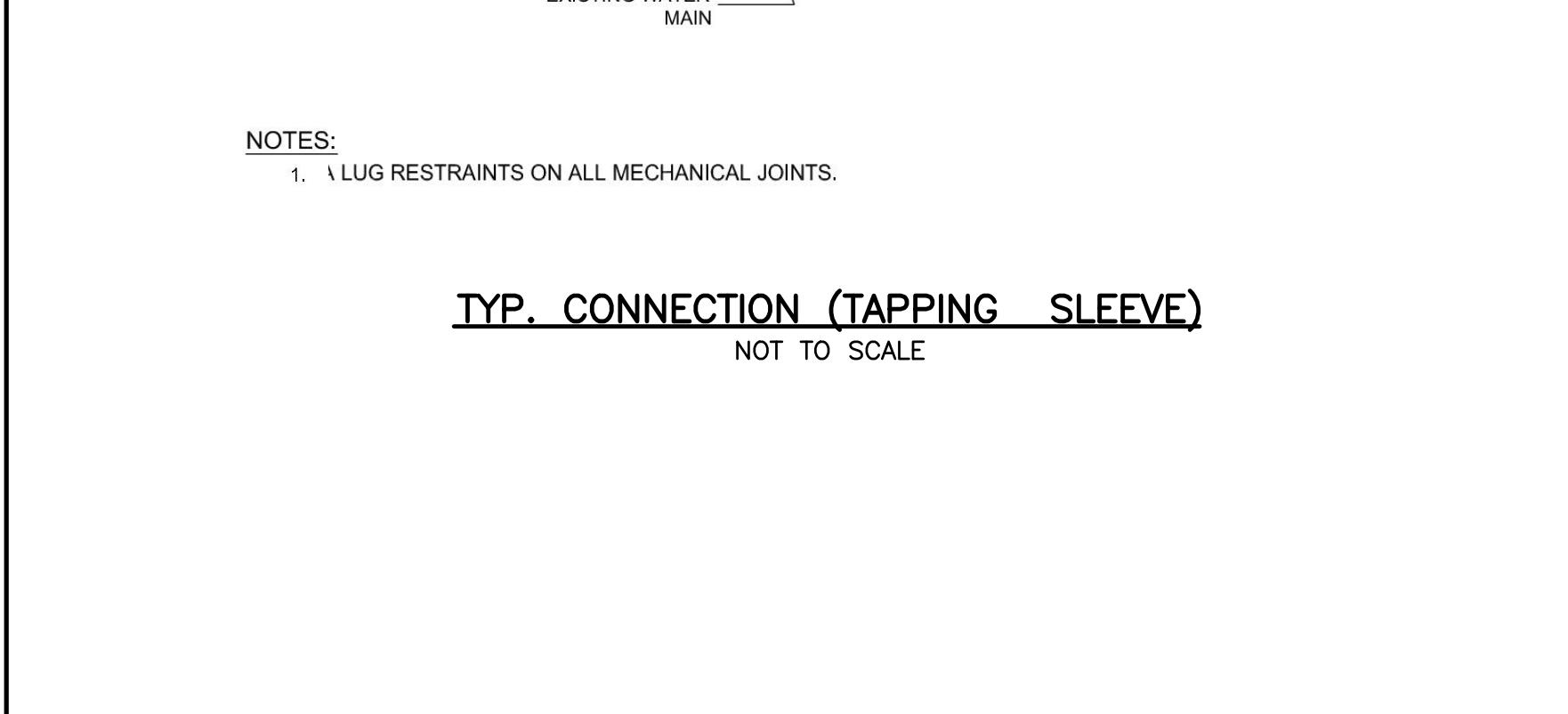
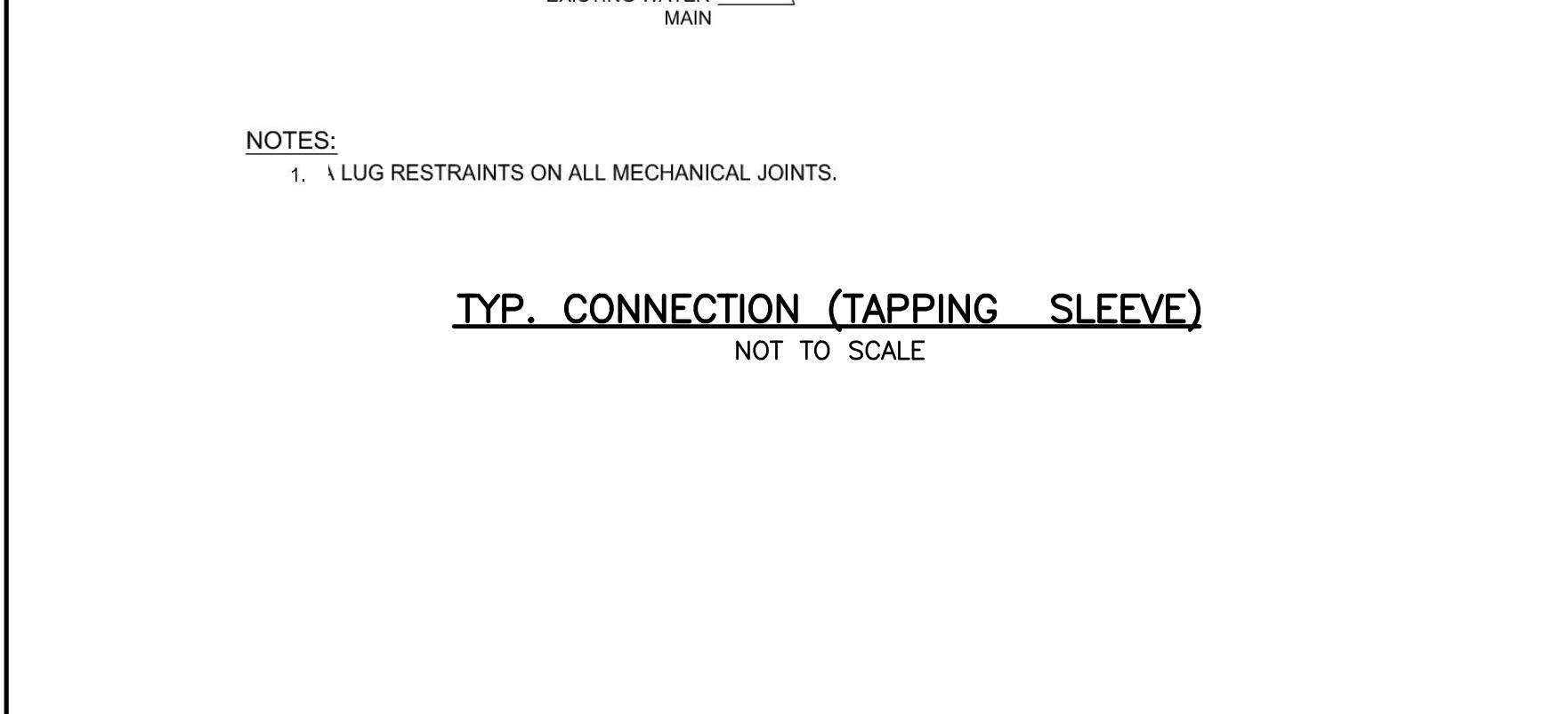
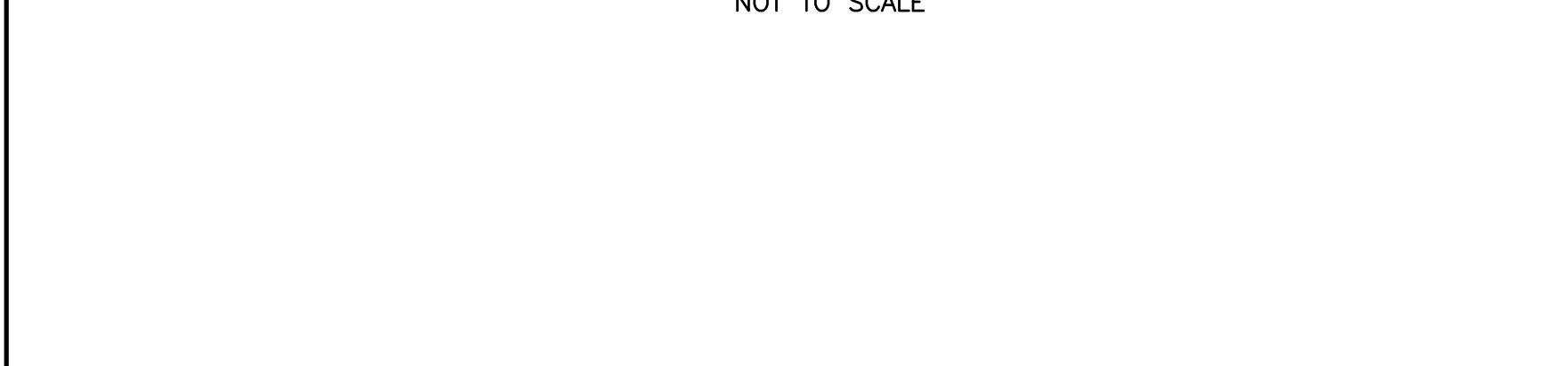
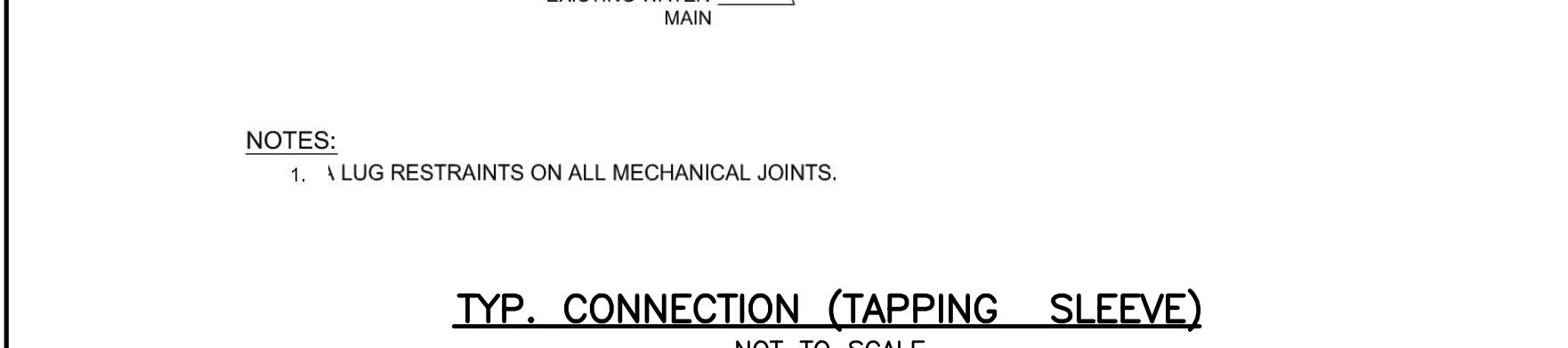
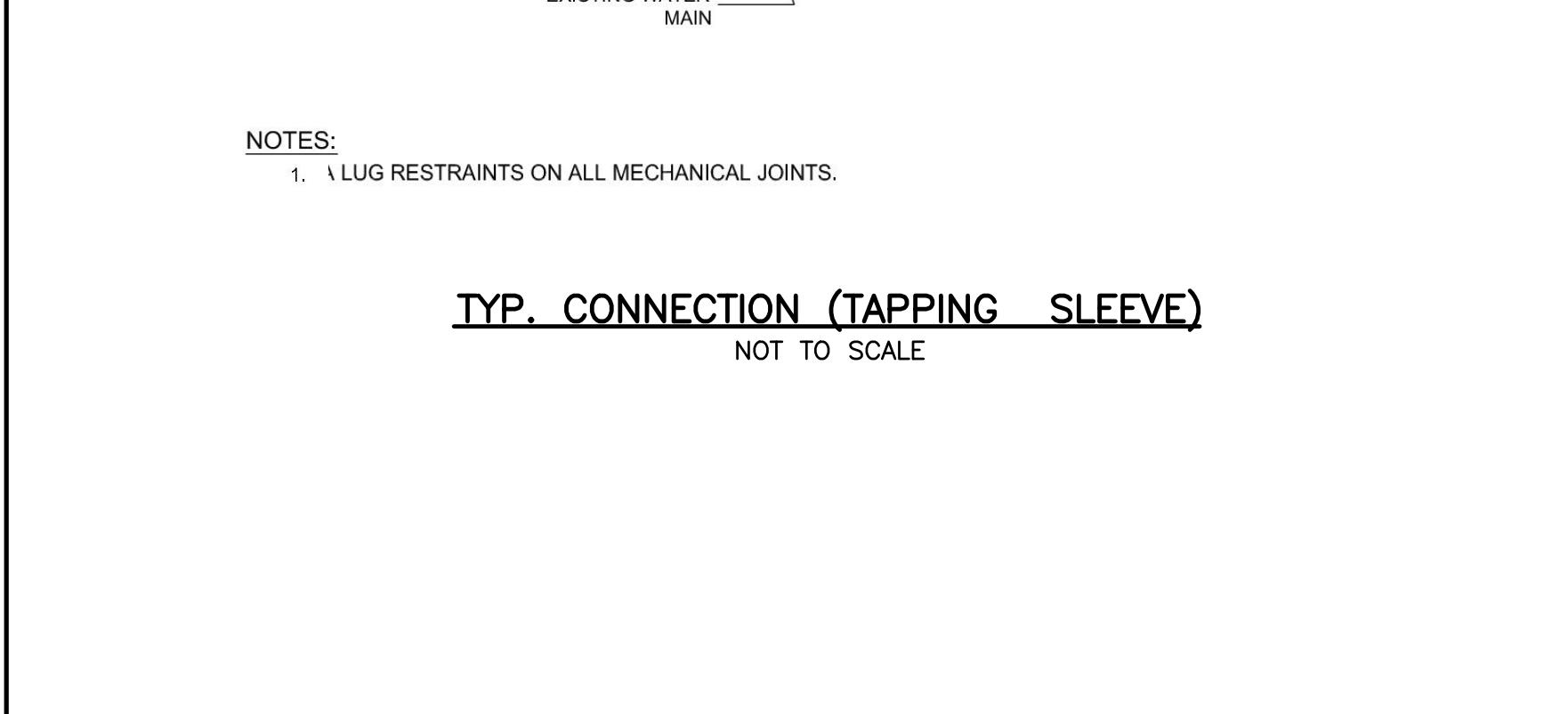
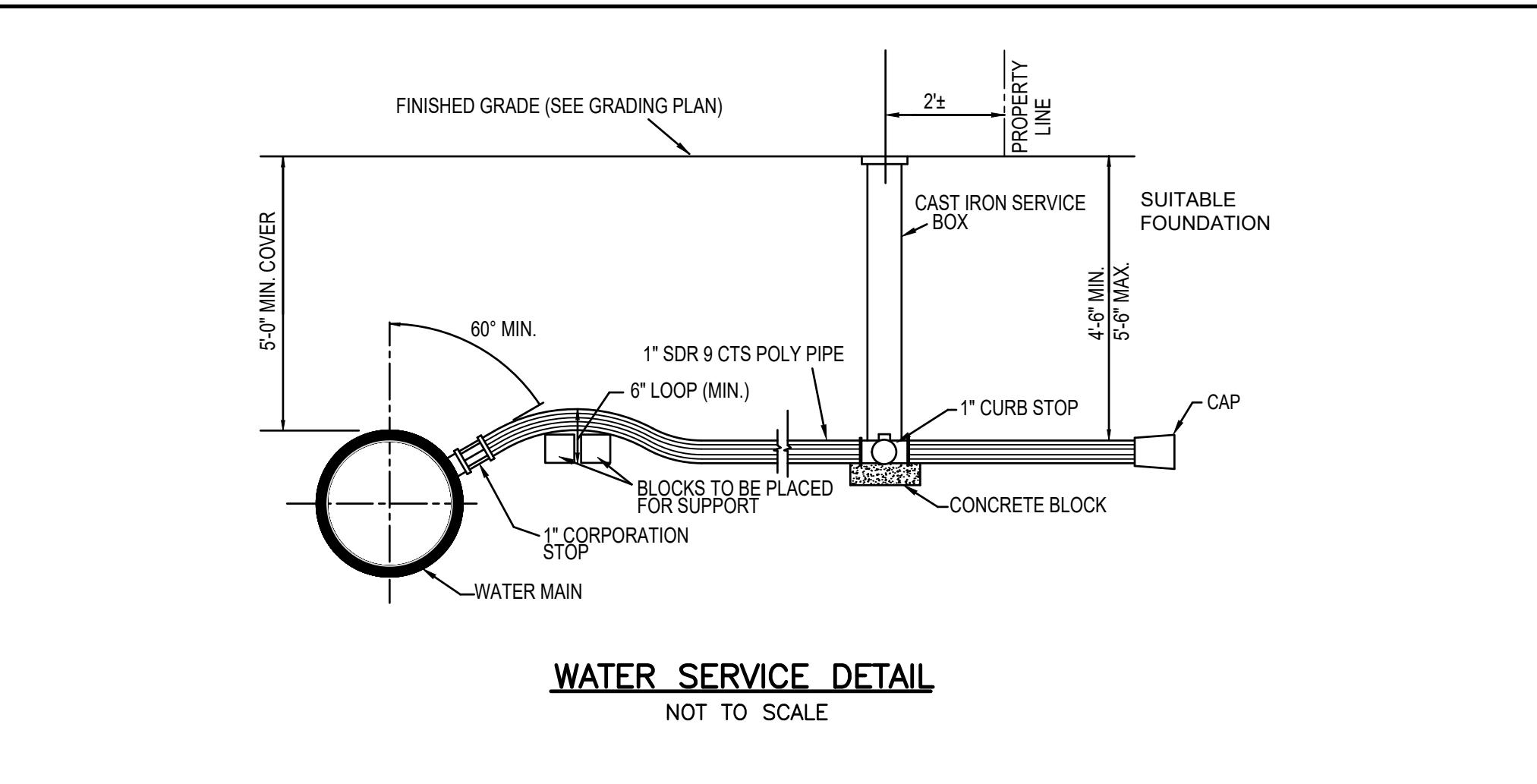
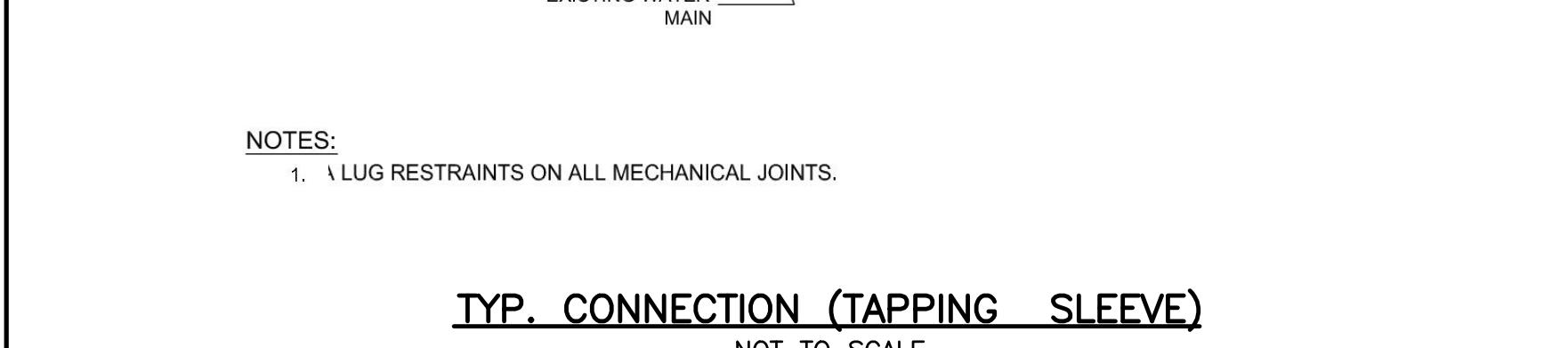
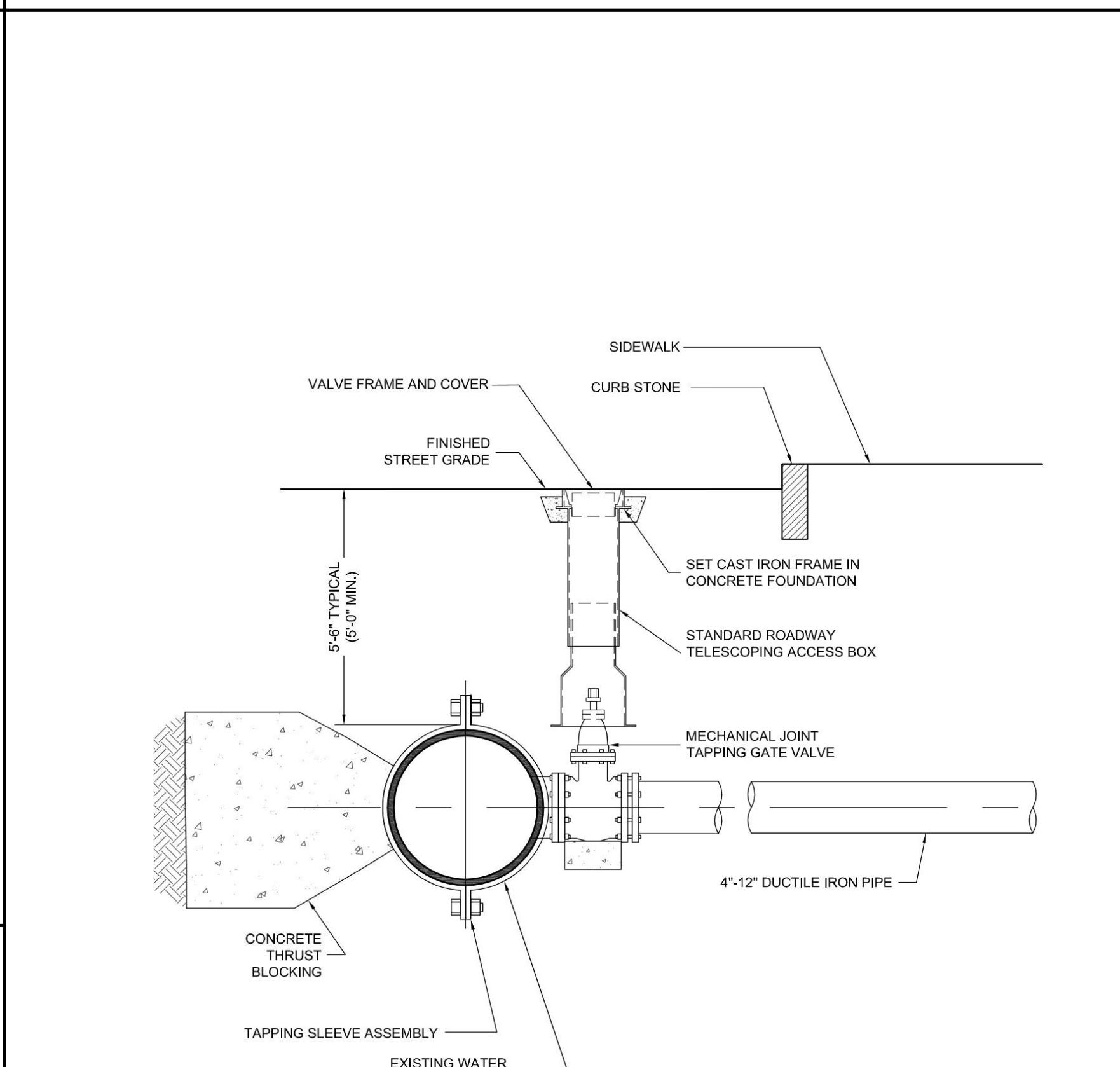
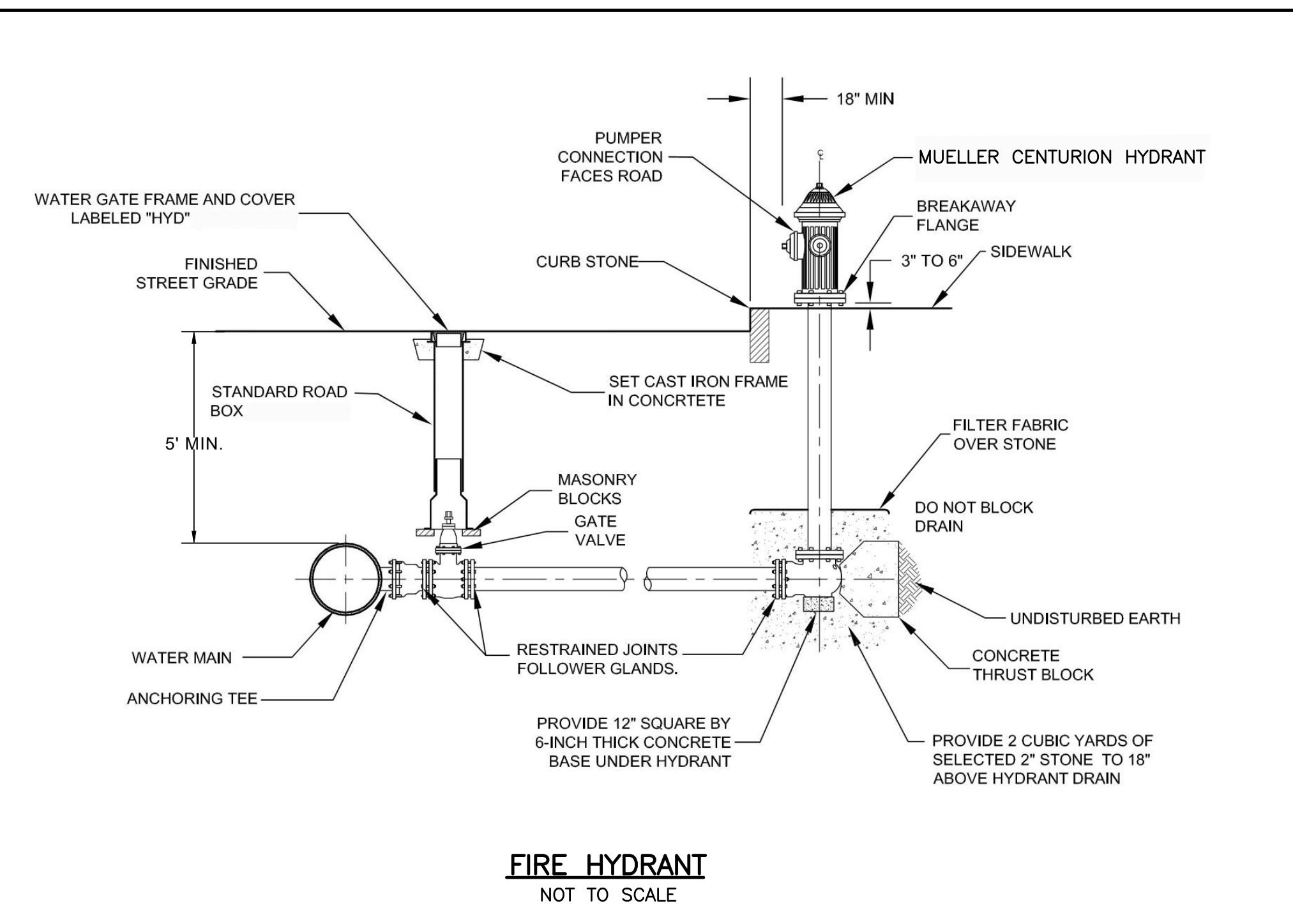
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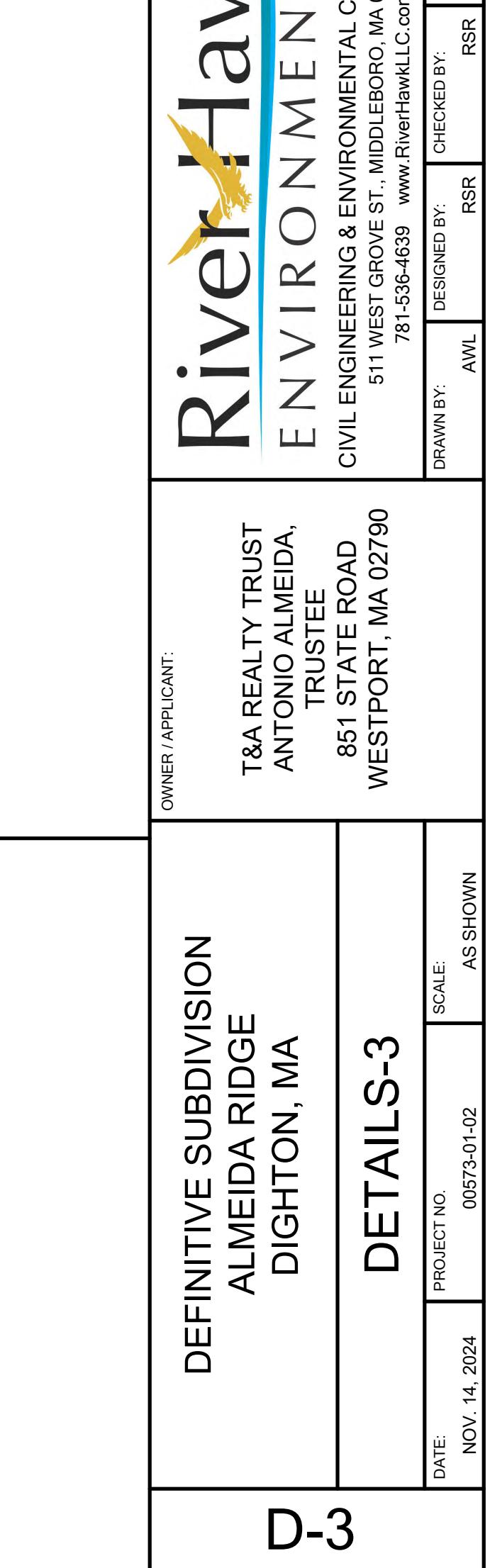
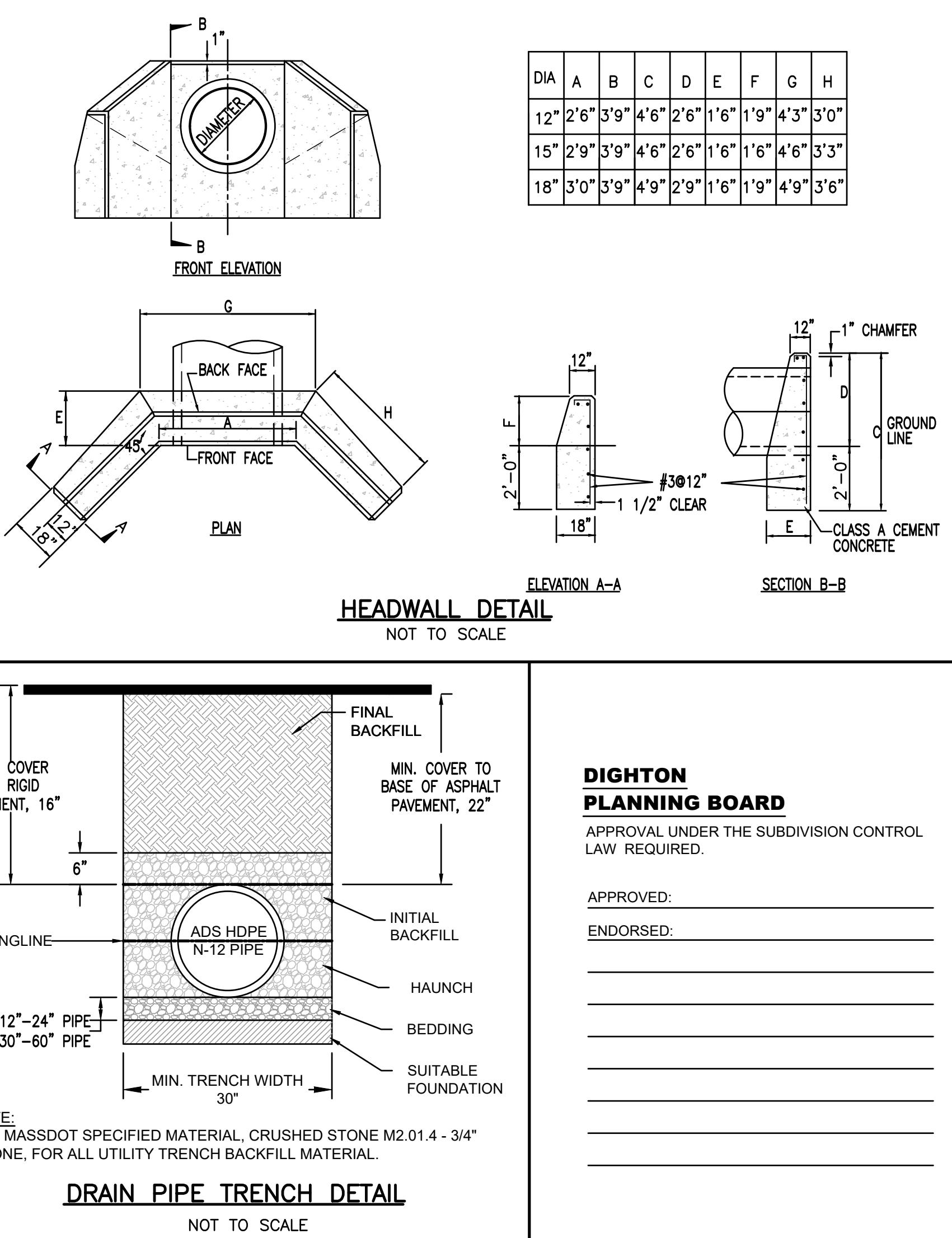
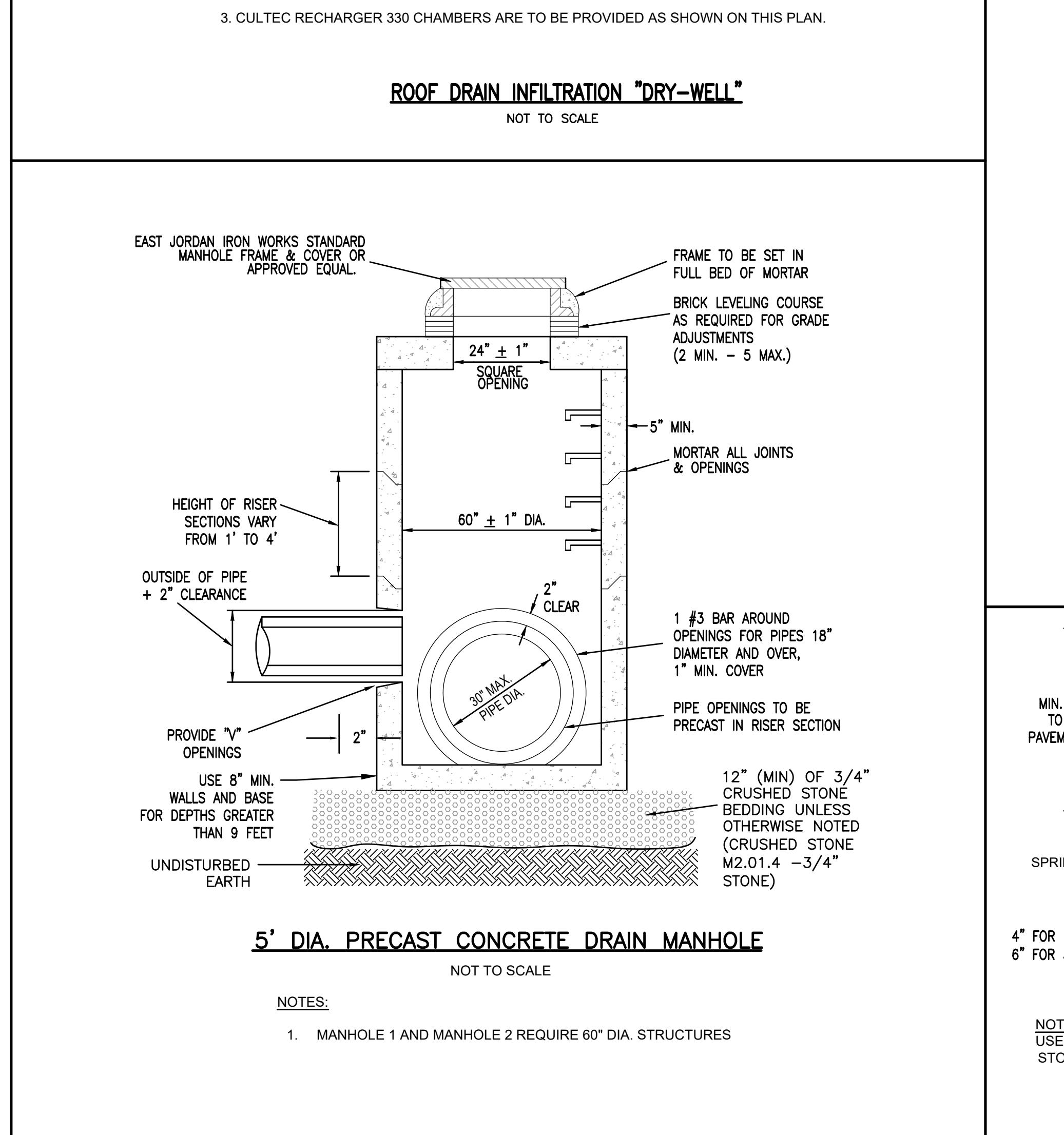
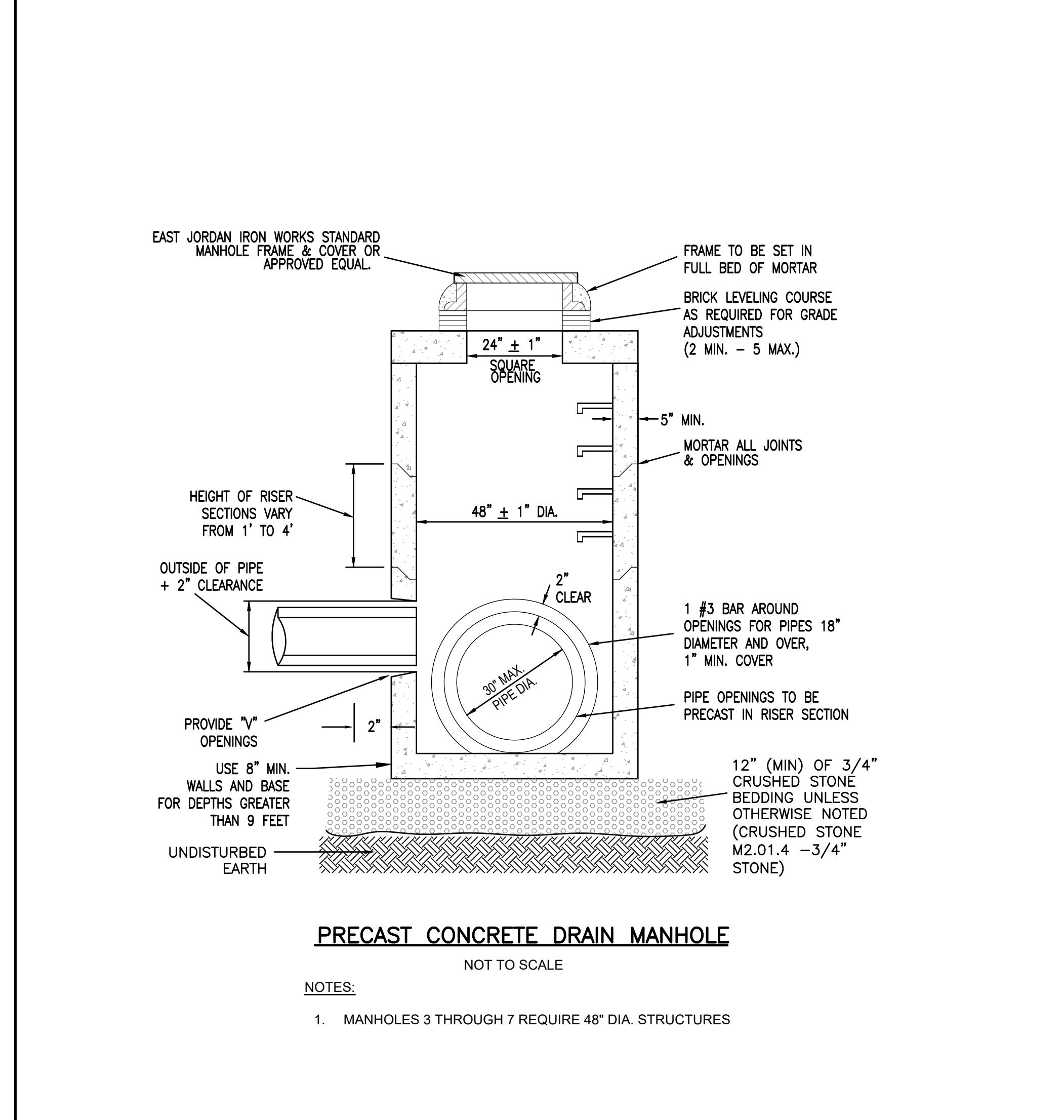
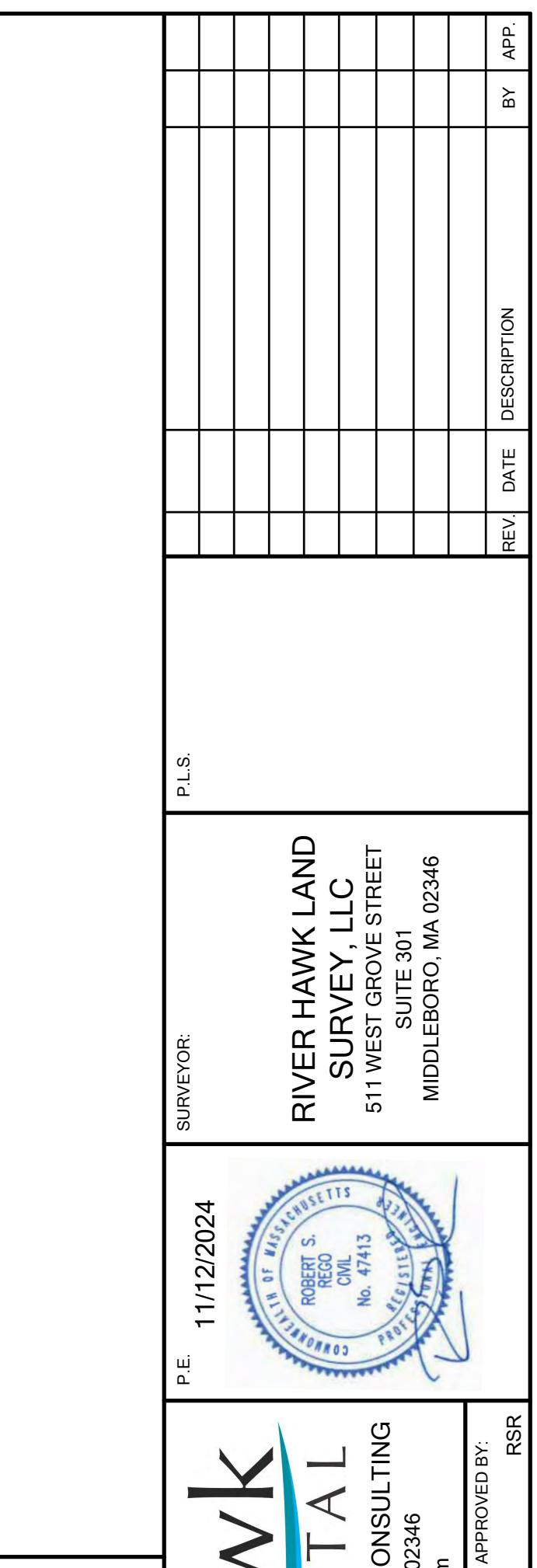
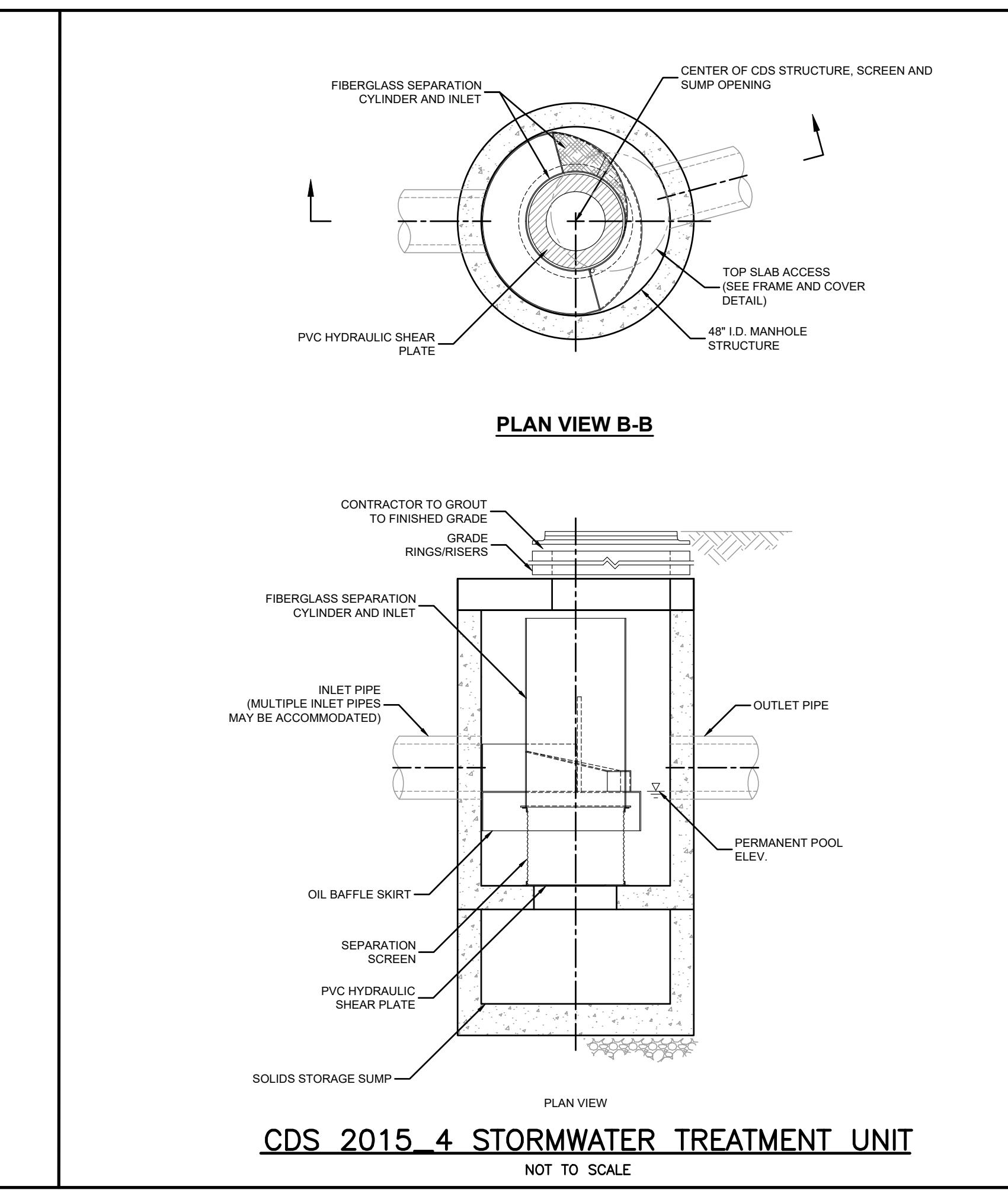
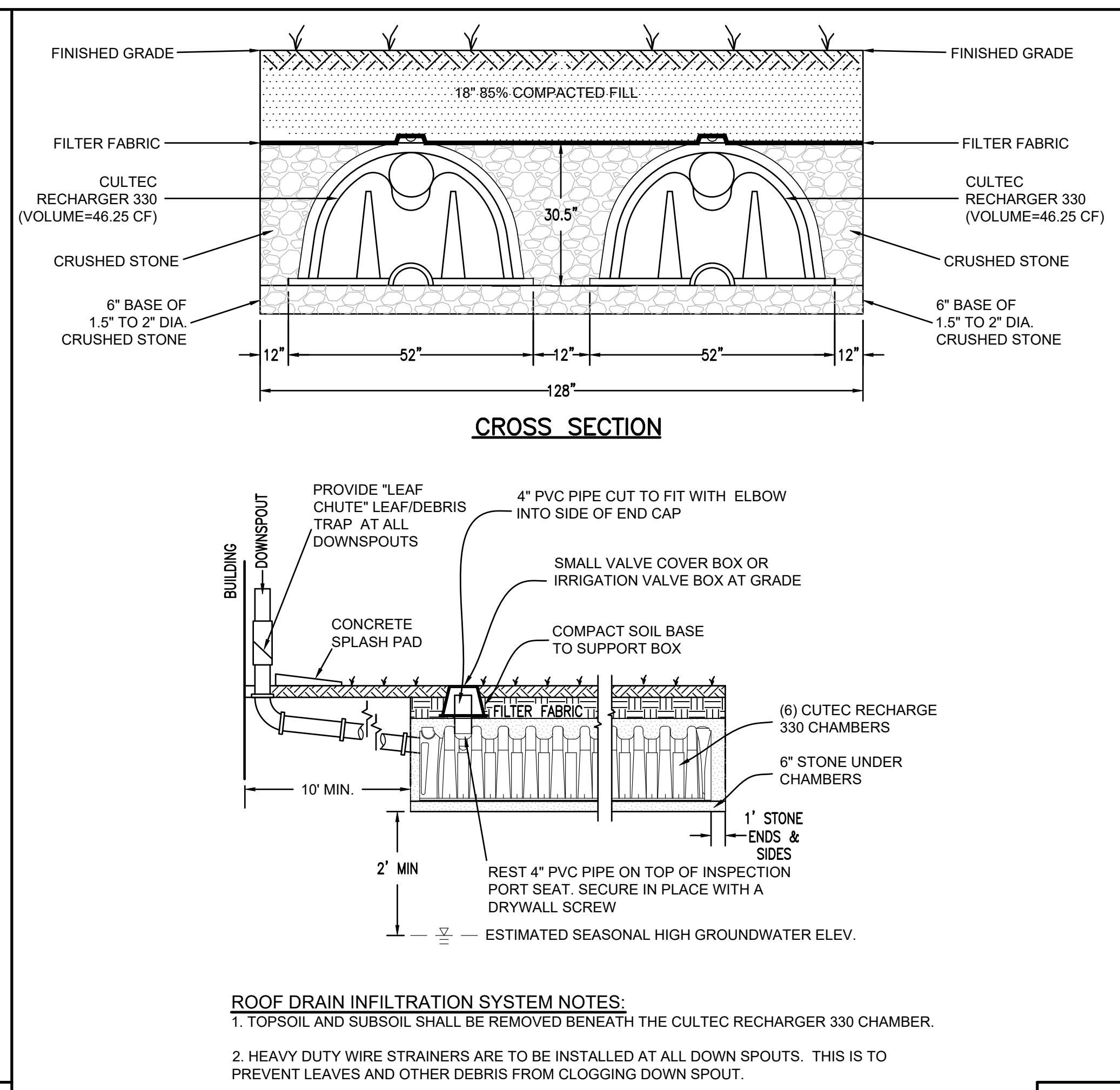
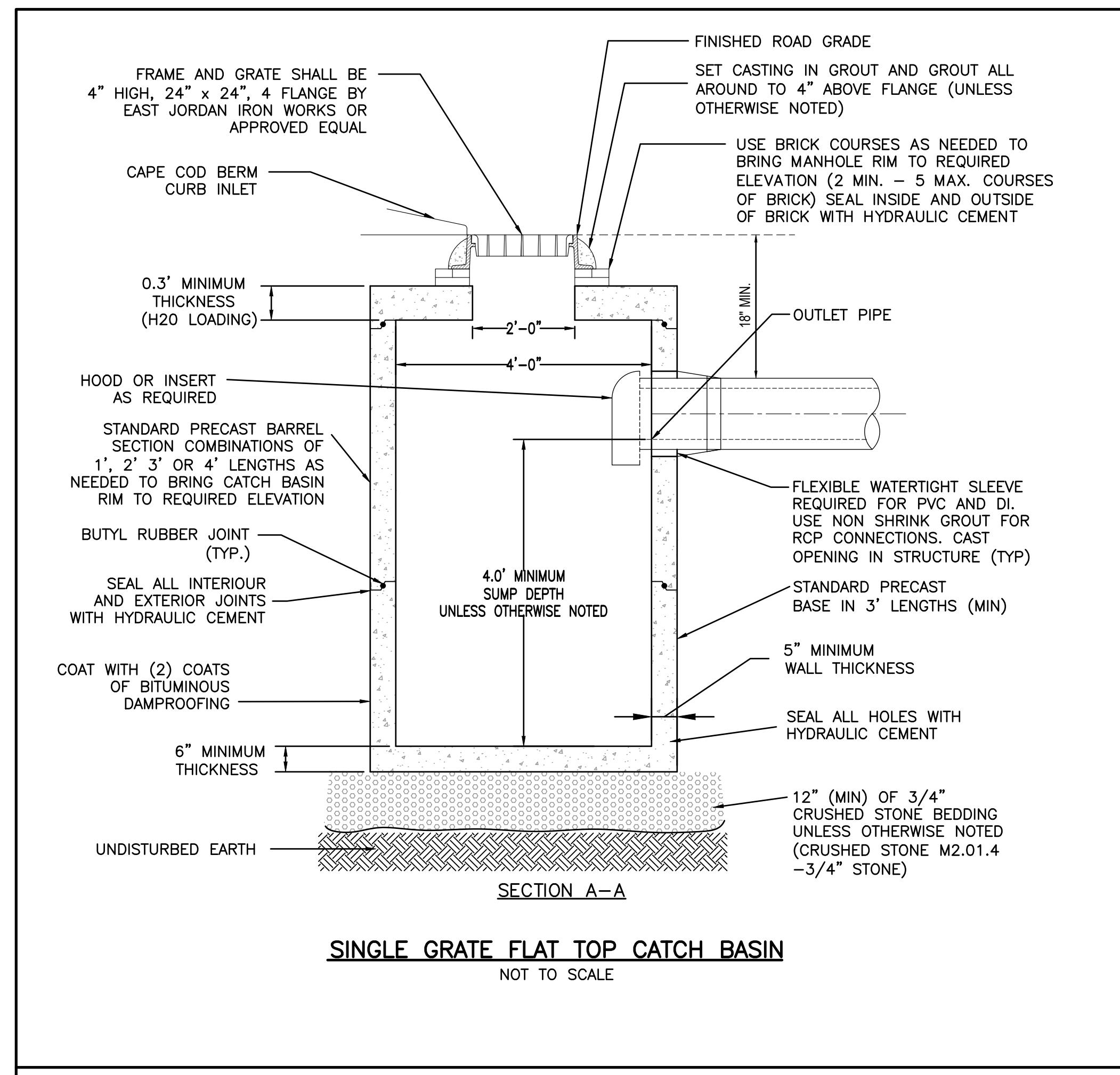


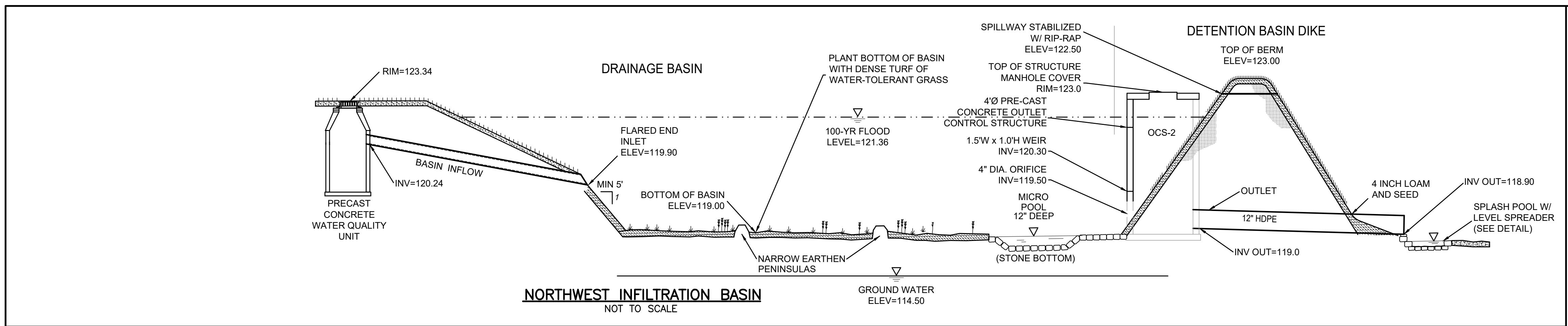


DEFINITIVE SUBDIVISION		OWNER/APPLICANT:	T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 651 STATE ROAD WESTPORT, MA 02790		SURVEYOR:	RIVER HAWK LAND SURVEY, LLC 511 WEST GROVE ST., MIDDLEBORO, MA 02346 SUITE 301	
ALMEIDA RIDGE DIGHTON, MA		P.E.	11/12/2024	ROBERT S. CIVIL No. 47413 RECEIVED 11/12/2024	PLS		
DETAILS-2		DRAWN BY:	RSR	DESIGNED BY:	RSR	CHECKED BY:	RSR
		APPROVED BY:	RSR	APPROVED BY:	RSR	ENDORSED:	
		DATE:	NOV. 14, 2024	PROJECT NO.	00573-01-02	SCALE:	AS SHOWN
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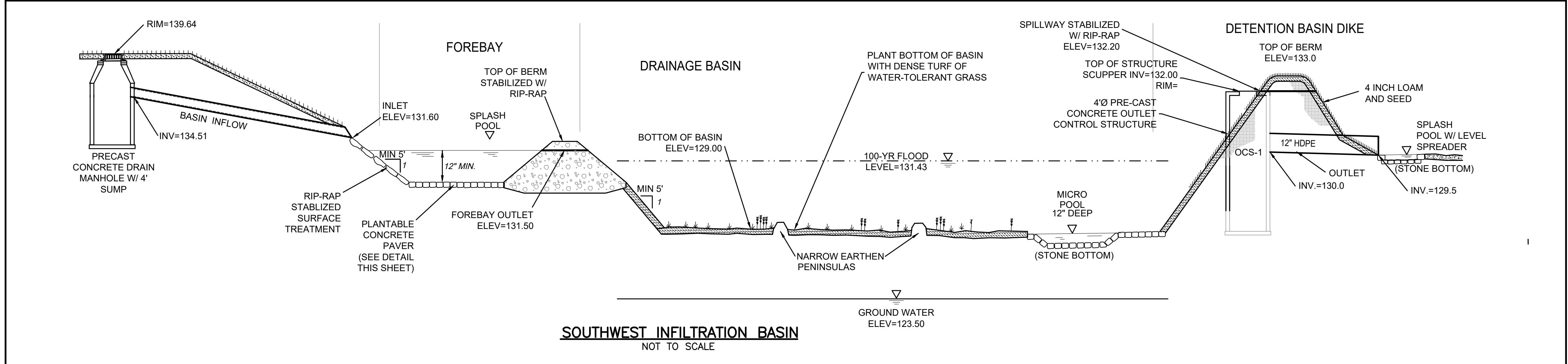
**RiverHawk ENVIRONMENTAL**  
CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING  
511 WEST GROVE ST., MIDDLEBORO, MA 02346  
781-536-1639 [www.RiverHawkLLC.com](http://www.RiverHawkLLC.com)



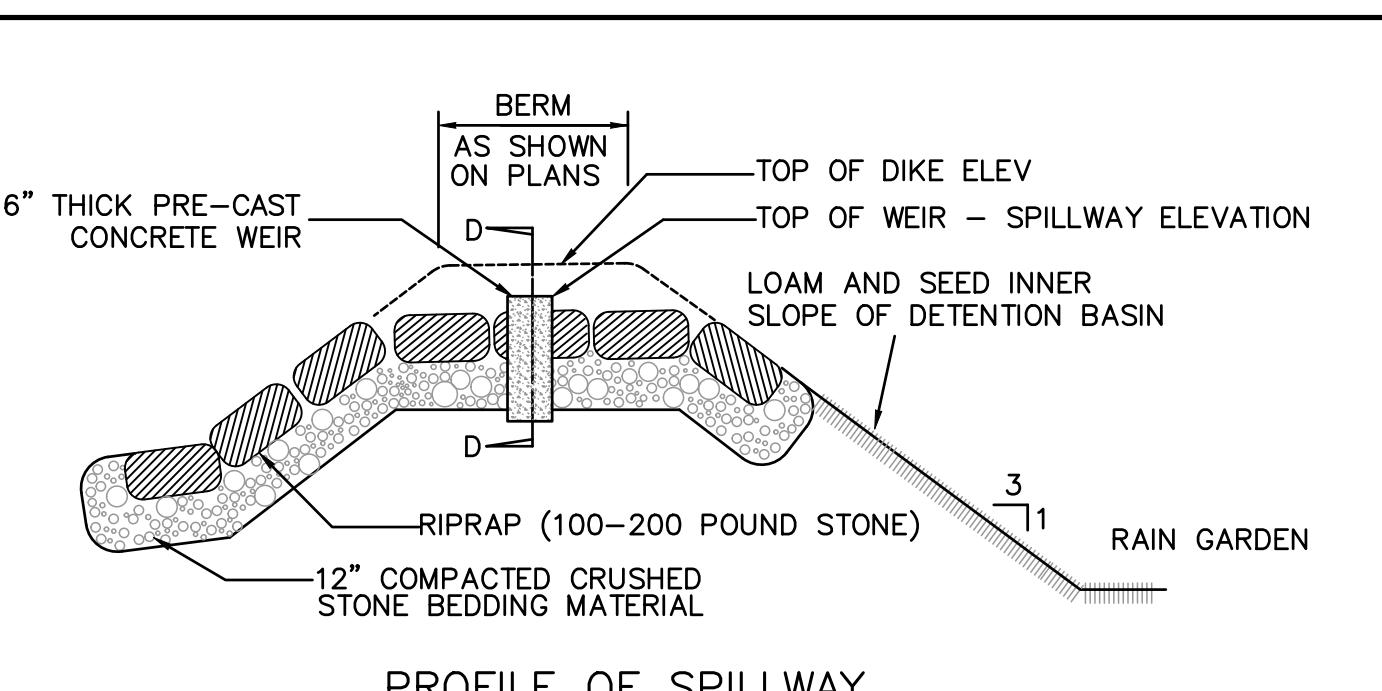




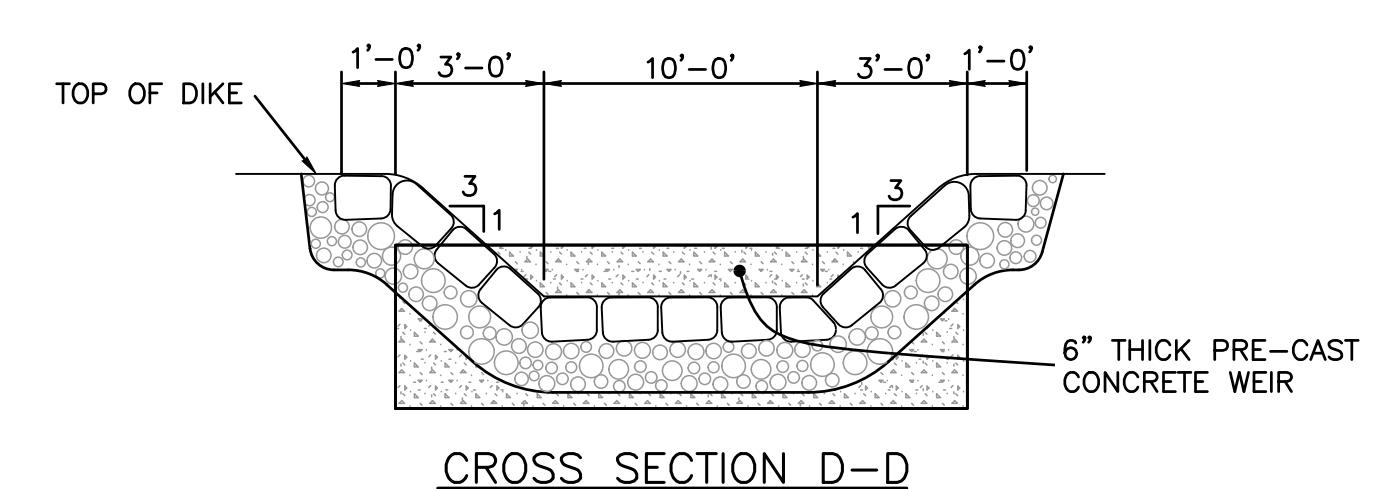
NORTHWEST INFILTRATION BASIN



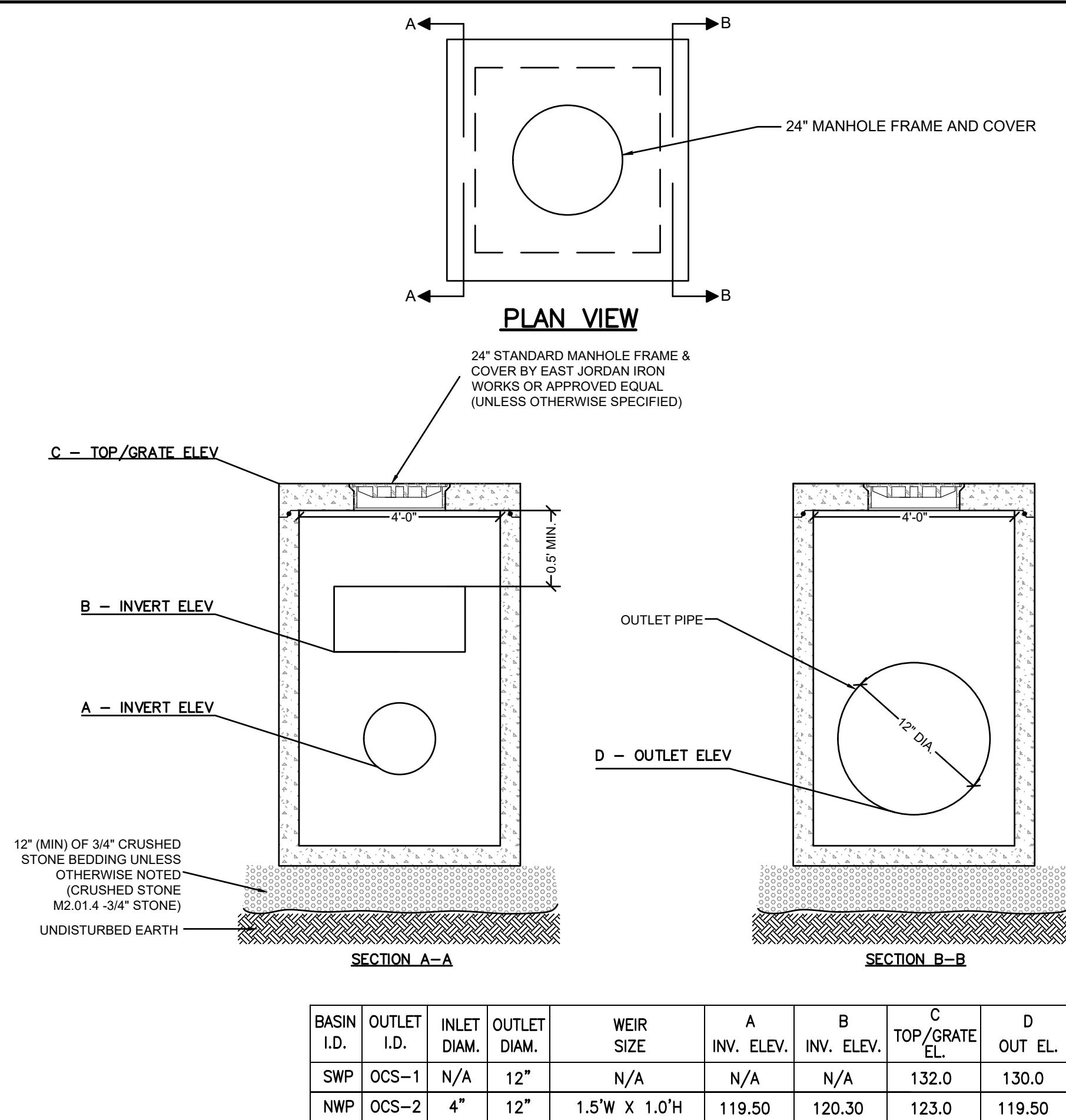
SOUTHWEST INFILTRATION BASIN



PROFILE OF SPILLWAY

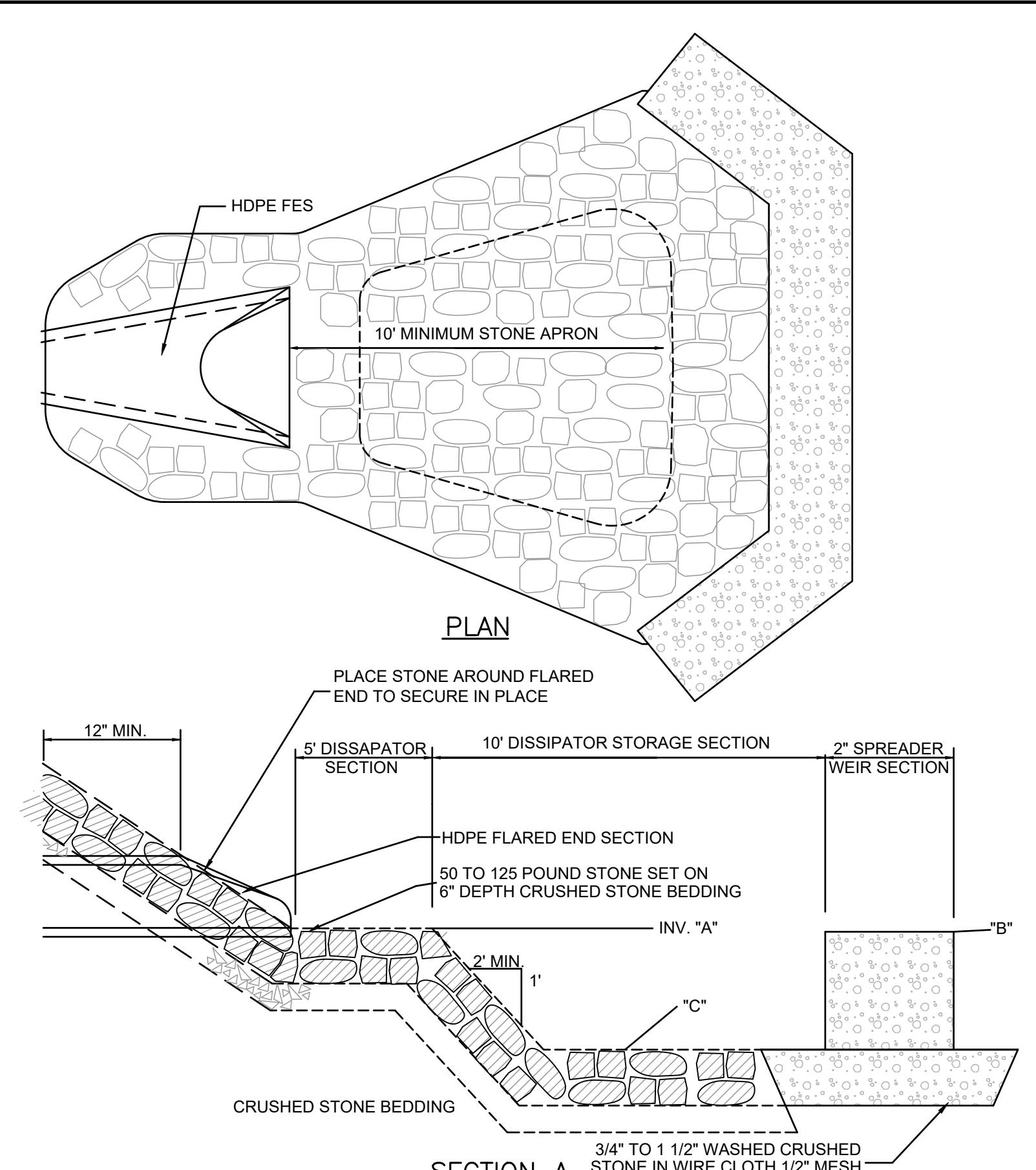


DETENTION BASIN SPILL WAY  
NOT TO SCALE

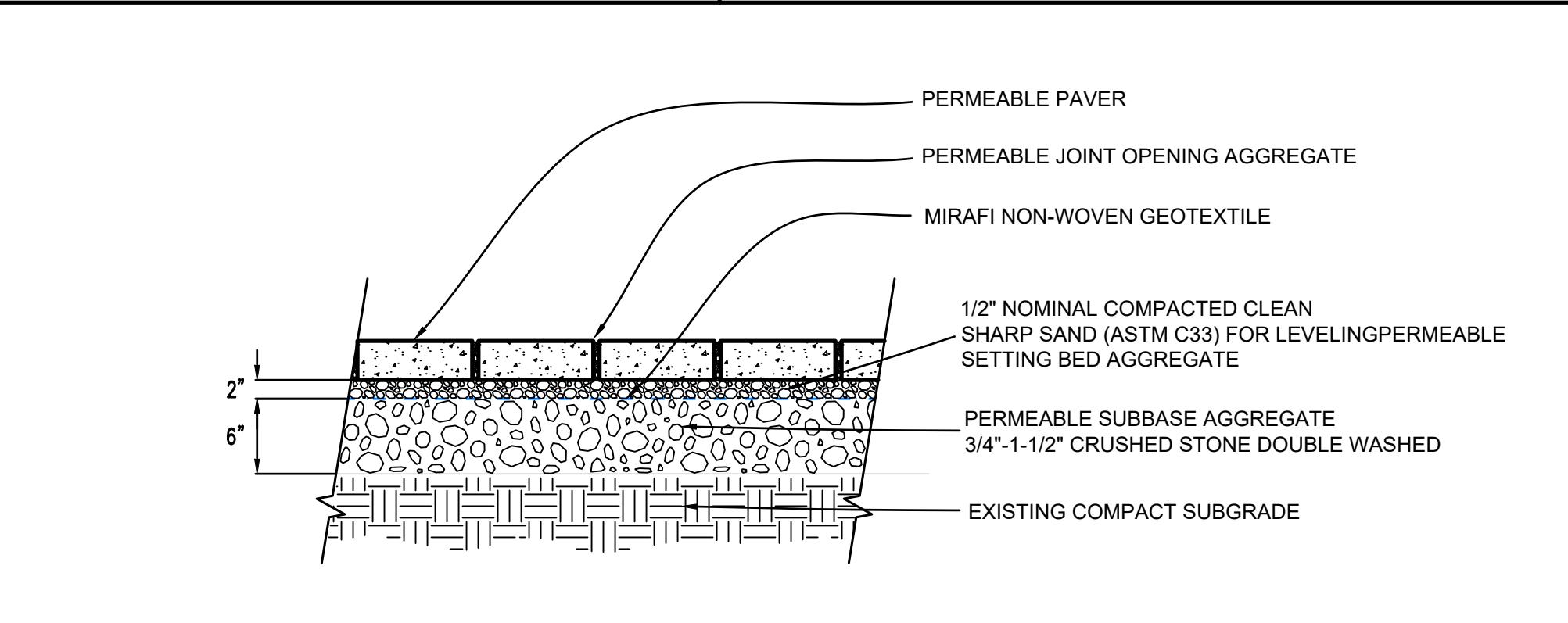


[1] WEIR INVERT ELEV.

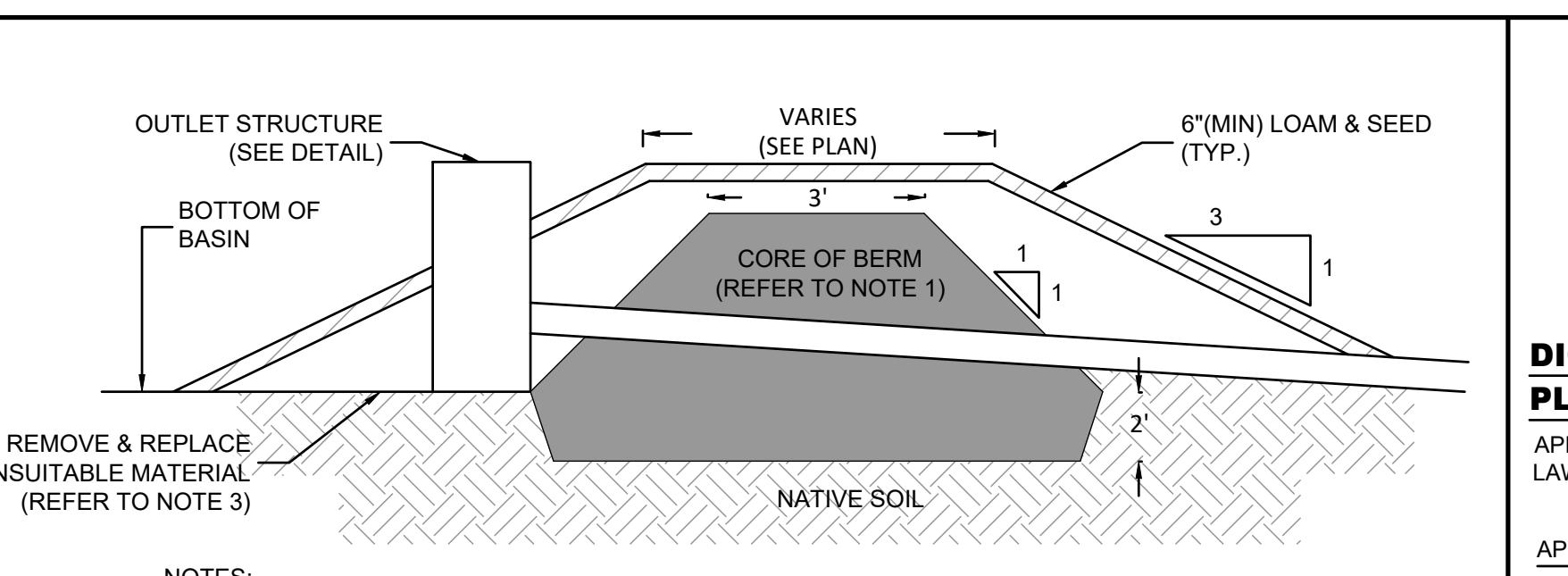
OUTLET STRUCTURE DETAIL  
NOT TO SCALE



SPLASH POOL W/ LEVEL SPREADER  
NOT TO SCALE



TYPICAL PLANTABLE PERMEABLE PAVER DETAIL  
NOT TO SCALE



NOTES:

- CORE MATERIAL SHALL MEET USGS CLASSIFICATION SC, SM, CL OR ML AND HAVE A MAXIMUM PARTICLE SIZE OF 3" AND A PERMEABILITY LESS THAN 0.000005 CM/S, AND MEET THE FOLLOWING GRADATION:  
SIEVE SIZE PERCENT FINER BY WEIGHT  
3 INCH 100  
#200 50-100
- PIPE SHALL BE FULLY EMBEDDED IN CORE TO ELIMINATE SEEPAGE
- REMOVE UNSUITABLE MATERIAL (TOPSOIL & SUBSOIL) BEHIND BERM AND REPLACE WITH BANK RUN GRAVEL OR LOW PERMEABILITY CORE MATERIAL AS DIRECTED

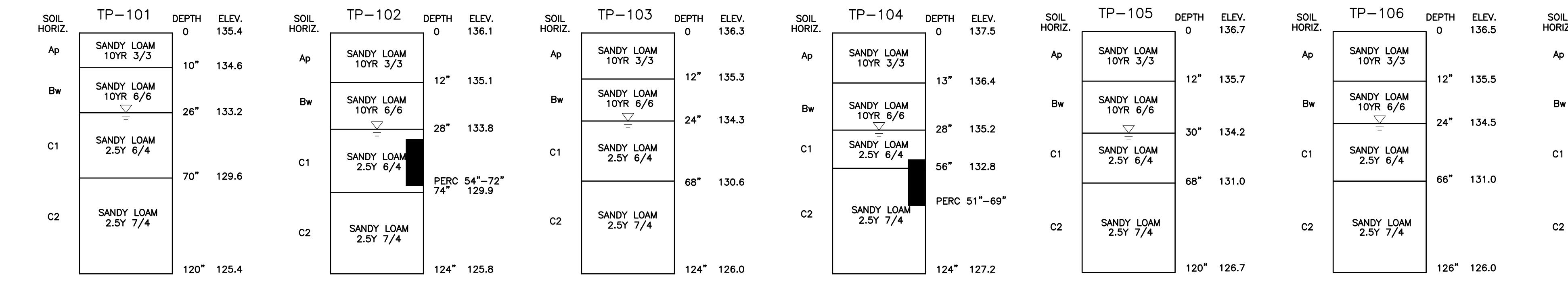
CLAY CORE BERM  
NOT TO SCALE

OWNER/APPLICANT:	T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 651 STATE ROAD WESTPORT, MA 02790		
P.E.	11/12/2024	SURVEYOR:	RIVER HAWK LAND SURVEY, LLC 511 WEST GROVE STREET MIDDLEBORO, MA 02346
DESIGNED BY:	RSR	CHECKED BY:	RSR
DRAWN BY:	AVL	APPROVED BY:	RSR
PROJECT NO.	00573-01-02	REV.	BY
DATE:	NOV. 14, 2024	DESCRIPTION:	APP.

**RiverHawk ENVIRONMENTAL**  
CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING  
511 WEST GROVE STREET, SUITE 301, MIDDLEBOROUGH, MA 02346  
781-536-1639 [www.RiverHawkLLC.com](http://www.RiverHawkLLC.com)

### SOIL DATA:

DATE: 10/05/2022  
 BOB REGO, P.E., SE#2019 (RIVER HAWK ENVIRONMENTAL, LLC.)  
 WITNESSED BY DIGHTON BOARD OF HEALTH, TODD PILLING



MOTTLING - 26" (ELEV. 133.2)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 26" (ELEV. 133.2)  
 PERCOLATION RATE = 11 M.P.I.

MOTTLING - 28" (ELEV. 133.8)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 28" (ELEV. 133.8)  
 PERCOLATION RATE = 11 M.P.I.

MOTTLING - 24" (ELEV. 133.3)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 24" (ELEV. 133.3)  
 PERCOLATION RATE = 12 M.P.I.

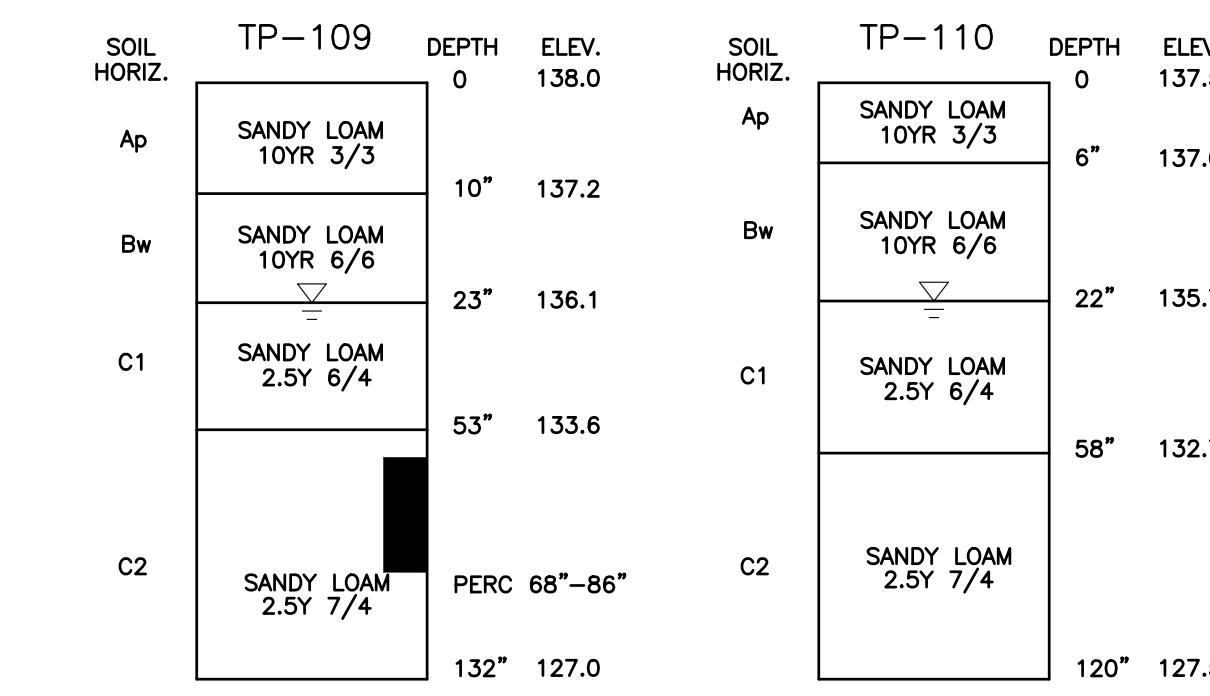
MOTTLING - 28" (ELEV. 136.3)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 28" (ELEV. 136.3)  
 PERCOLATION RATE = 12 M.P.I.

MOTTLING - 30" (ELEV. 135.2)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 30" (ELEV. 135.2)  
 PERCOLATION RATE = 12 M.P.I.

MOTTLING - 24" (ELEV. 134.2)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 24" (ELEV. 134.2)  
 PERCOLATION RATE = 12 M.P.I.

MOTTLING - 28" (ELEV. 136.0)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 28" (ELEV. 136.0)  
 PERCOLATION RATE = 19 M.P.I.

MOTTLING - NOT OBSERVED  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 132" (ELEV. 126.2)  
 PERCOLATION RATE = 19 M.P.I.



MOTTLING - 23" (ELEV. 136.1)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 23" (ELEV. 136.1)  
 PERCOLATION RATE = 6 M.P.I.

MOTTLING - 22" (ELEV. 135.7)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 22" (ELEV. 135.7)  
 PERCOLATION RATE = <2 M.P.I.

MOTTLING - 54" (ELEV. 127.5)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 54" (ELEV. 127.5)  
 PERCOLATION RATE = <2 M.P.I.

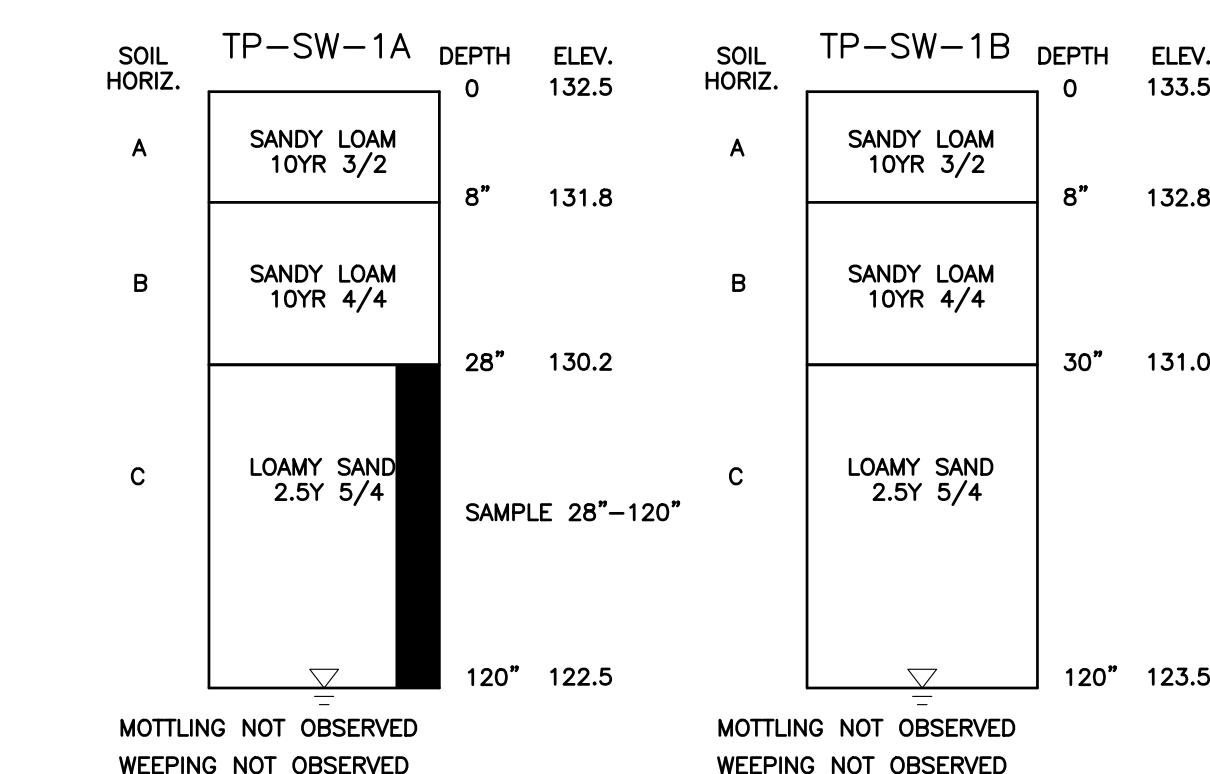
MOTTLING - 60" (ELEV. 117.1)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 60" (ELEV. 117.1)  
 PERCOLATION RATE = 5 M.P.I.

MOTTLING - 40" (ELEV. 115.2)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 40" (ELEV. 115.2)  
 PERCOLATION RATE = <2 M.P.I.

MOTTLING - 42" (ELEV. 110.5)  
 WEEPING - NOT OBSERVED  
 STANDING WATER - NOT OBSERVED  
 S.H.G.E. - 42" (ELEV. 110.5)  
 PERCOLATION RATE = <2 M.P.I.

### SOIL DATA:

DATE: 09/23/2024  
 BOB REGO, P.E., SE#2019 (RIVER HAWK ENVIRONMENTAL, LLC.)  
 WITNESSED BY DIGHTON BOARD OF HEALTH, GERRY BERNARD



MOTTLING NOT OBSERVED  
 WEEPING NOT OBSERVED  
 STANDING WATER NOT OBSERVED  
 S.H.G.E. - 120" (ELEV. 122.5)

MOTTLING NOT OBSERVED  
 WEEPING NOT OBSERVED  
 STANDING WATER NOT OBSERVED  
 S.H.G.E. - 120" (ELEV. 123.5)

MOTTLING NOT OBSERVED  
 WEEPING - 96" (ELEV. 114.5)  
 STANDING WATER NOT OBSERVED  
 S.H.G.E. - 96" (ELEV. 114.5)

MOTTLING NOT OBSERVED  
 WEEPING NOT OBSERVED  
 STANDING WATER NOT OBSERVED  
 S.H.G.E. - 100" (ELEV. 127.7)

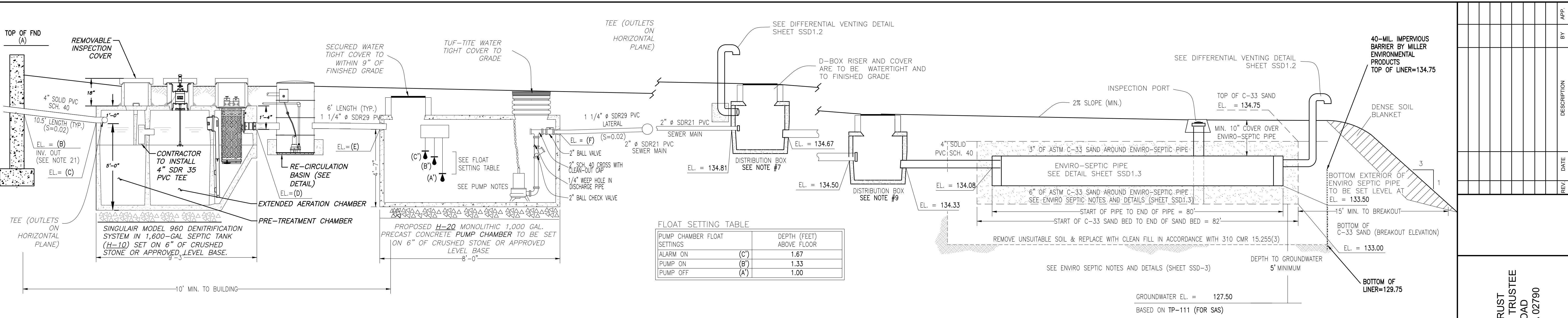
### DIGHTON PLANNING BOARD

APPROVAL UNDER THE SUBDIVISION CONTROL LAW REQUIRED.

APPROVED:

ENDORSED:

DEFINITIVE SUBDIVISION		T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 651 STATE ROAD WESTPORT, MA 02790		RIVER HAWK ENVIRONMENTAL CONSULTING CIVIL ENGINEERING & ENVIRONMENTAL CONSULTING 511 WEST GROVE ST., MIDDLEBORO, MA 02346 781-536-1639 www.RiverHawkLLC.com	
OWNER/APPLICANT:	APPROVED BY:	P.E.	DESIGNED BY:	CHECKED BY:	APPROVED BY:
ALMEIDA RIDGE DIGHTON, MA	RSR	11/12/2024	AVNL	RSR	RSR
DETAILS-5 & TEST PIT LOGS					
DATE: NOV. 14, 2024	PROJECT NO. 00573-01-02	SCALE: AS SHOWN			
APR. BY					



SAS 1A

### SEPTIC SYSTEM DESIGN DATA: - SAS 1

#### DESIGN FLOW:

PROP. 17 DWELLING UNITS W/ 4-BEDROOMS PER UNIT  
68 BEDROOMS x 110 GPD/BEDROOM = 7,480 GPD

#### SOIL ABSORPTION SYSTEM (ENVIRO-SEPTIC):

PERCOLATION RATE = 5 MIN./INCH (CLASS I SOIL)  
USE STANDARD ENVIRO-SEPTIC PIPE IN BED CONFIGURATION

#### TASK 1: LINEAR FEET OF ENVIRO-SEPTIC PIPE REQUIRED

DESIGN LOADING RATE = 50 LF OF ENVIRO-SEPTIC PIPE/100 GPD=0.5 LF/GPD  
(7,480 GPD) X (0.50 LF/GPD) = 3,740 LF

DIVIDE SAS INTO 2 SECTIONS = 3,740 LF / 2 = 1,870 LF

#### TASK 2: SLOPE OF PROPOSED SAS

SAND BED TO HAVE NO SLOPE

#### TASK 3: MINIMUM CENTER TO CENTER SPACING

MINIMUM CENTER TO CENTER PIPE SPACING = 1.5'  
DESIGN CENTER TO CENTER PIPE SPACING = 1.5'

#### TASK 4: LINE LAYOUT

USE A COMBINATION SYSTEM

LINEAR FEET OF ENVIRO-SEPTIC PIPE PROVIDED =  
USE 80 LF (LINE LENGTH) X 3 (LINES) = 240 LF OF ENVIRO-SEPTIC  
PER SECTION OF COMBINATION SYSTEM.

240 LF x (100 GPD/50 LF) = 480 GPD < 500 GPD MAX.

2 BEDS X (8 SECTIONS) X 240 LF OF PIPE = 3,840 LF. OF PIPE > 3,740 LF.

#### TASK 5: TOTAL SYSTEM BED AREA

AREA OF EACH SAND BED = (82' LONG x 37.5' WIDE) = 3,075 SF

AREA OF BOTH SAND BEDS = 3,075 SF X 2 = 6,150 SF

AREA OF TYPICAL AGGREGATE SYSTEM=(7,480 GPD)/(0.74 GPD/SF)=10,108 SF

MINIMUM AREA OF SAND BED REQUIRED=(10,108 SF) X (0.60) = 6,065 SF

(PROVIDED) 6,150 SF > 6,065 SF (MINIMUM REQUIRED)

#### FLOW PROVIDED:

(3,840 L.F.) X (100 GPD/ 50 L.F.) = 7,680 GPD

7,680 GPD > 7,480 GPD

#### SEPTIC TANK/DENITRIFICATION SYSTEM:

PROP. SINGLE FAMILY WITH (1) 4-BEDROOM UNITS

4 BEDROOMS x 110 GPD/BEDROOM = 440 GPD/UNIT

USE 1,600-GAL TANK W/ SINGULAR MODEL 960 (750 GPD SYSTEM)

#### PUMP CHAMBER SIZING:

PROP. SINGLE FAMILY WITH (1) 4-BEDROOM UNITS

4 BEDROOMS x 110 GPD/BEDROOM = 440 GPD/UNIT

DOSES = 4 DOSES/DAY

440 GPD/4 = 110 GAL/DOSE

VOLUME ABOVE DOSE FOR ALARM = 50 GAL

EMERGENCY STORAGE = DAILY FLOW = 440 GPD

REQ. PUMP CHAMBER VOL = 110 GAL + 50 GAL + 440 GAL = 600 GAL

USE 1,000-GALLON PUMP CHAMBER

#### DOSE CALCULATION:

3 UNITS X 150 GPD = 450 GAL/DAY

DESIGN DOSE = 450 GPD / 4 DOSE/DAY = 112.5 GAL/DOSE

112.5 GAL/DOSE x CF/7.48 GAL = 15.04 CF/DOSE

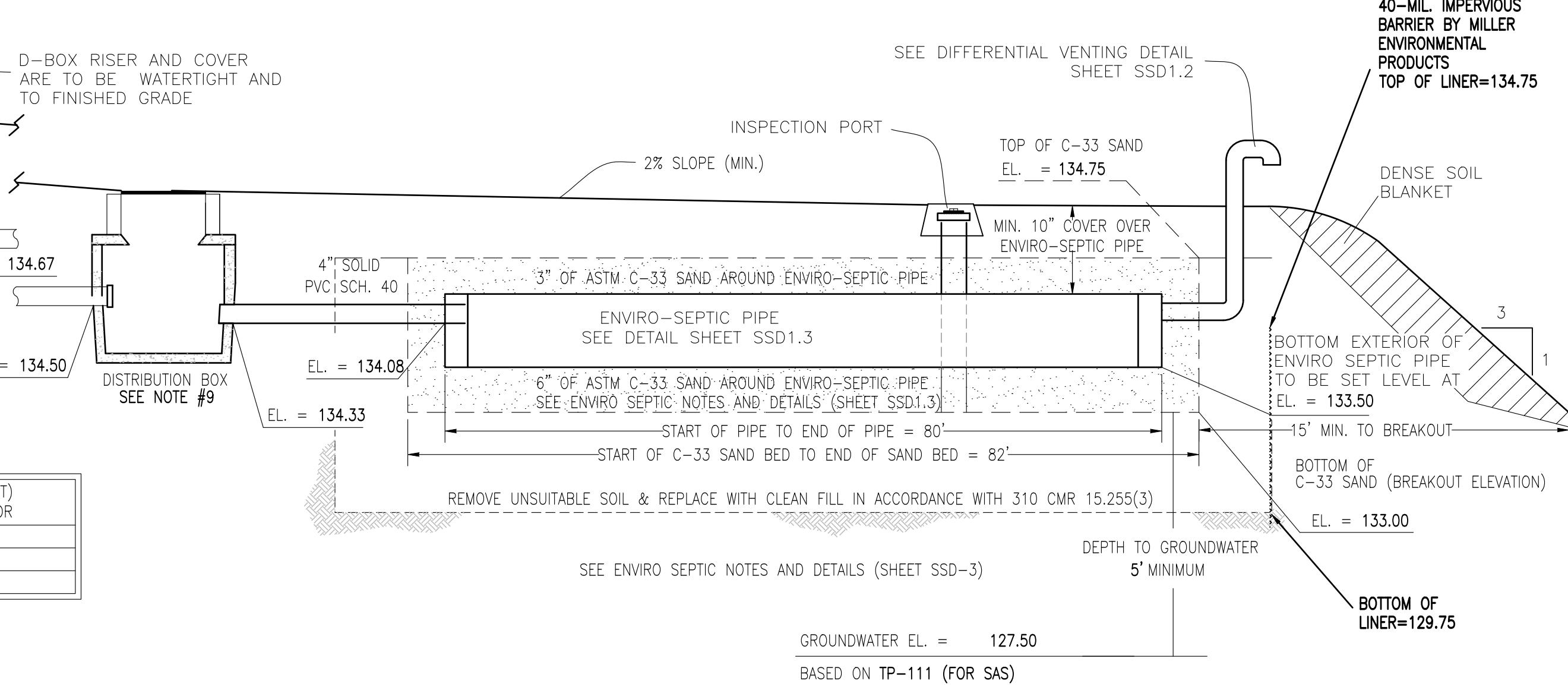
DEPTH (FT) =  $\frac{15.04 \text{ CF}}{7.5 \text{ FT} \times 4.67 \text{ FT}} = 0.43 \text{ FT}$

### SEPTIC CONSTRUCTION NOTES:

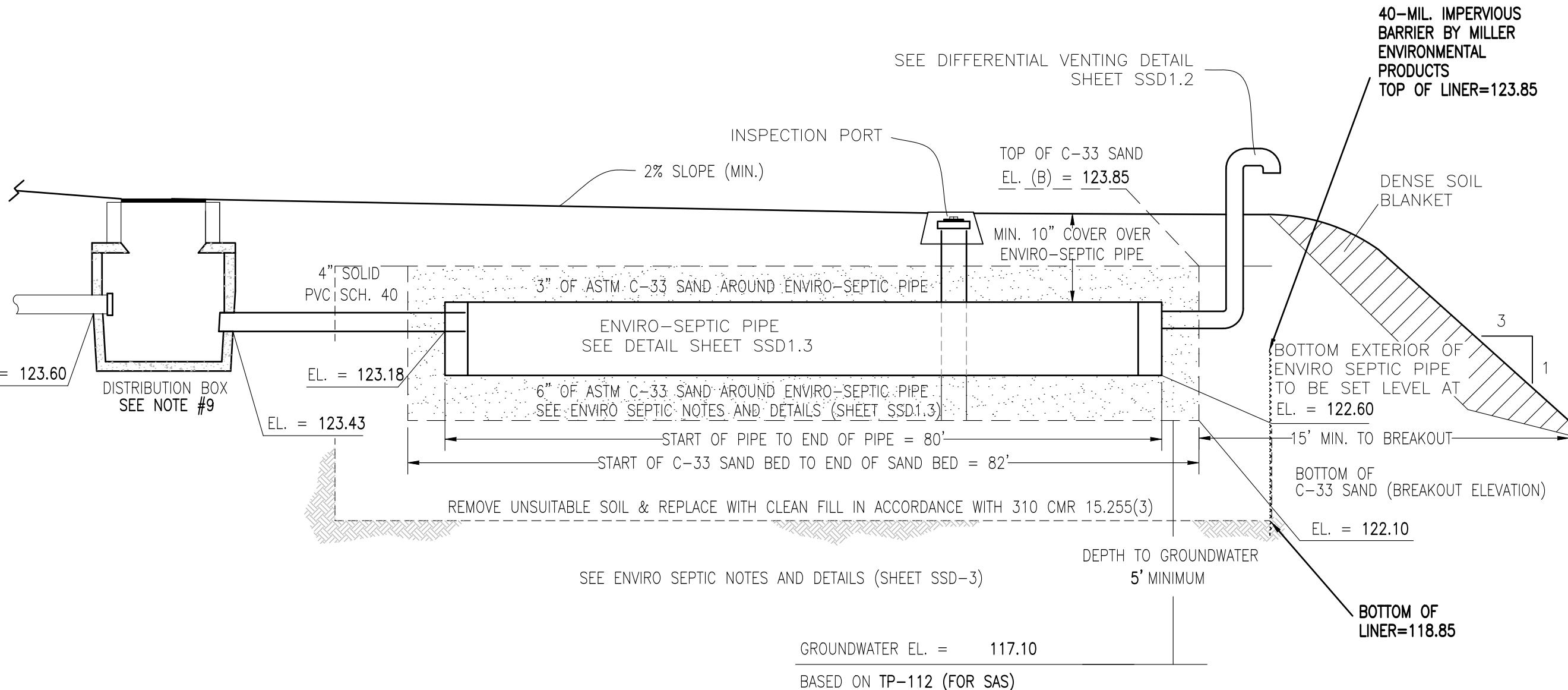
- THE CONTRACTOR SHALL NOTIFY THE LOCAL BOARD OF HEALTH AND RIVER HAWK ENVIRONMENTAL, LLC, AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTIONS. THE REQUIRED INSPECTIONS ARE AS FOLLOWS:
  - AFTER LEACH FIELD EXCAVATION PRIOR TO PLACEMENT OF SAND
  - AFTER PLACEMENT OF ENVIRO-SEPTIC IN SAND BED, PRIOR TO BACKFILL.
  - PRIOR TO BACKFILL, THE CONTRACTOR IS TO PROVIDE A CURRENT SIEVE ANALYSIS SHOWING THAT THE SAND MEETS PRESBY SPECIFICATIONS.
  - DURING BACKFILLING IN ACCORDANCE WITH 310 CMR 15.021 (2).
  - BENCHMARK TO BE SET BY RIVER HAWK ENVIRONMENTAL PRIOR TO CONSTRUCTION.
  - HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE LIMITS OF THE SAS DURING THE COURSE OF CONSTRUCTION OF THE SYSTEM.
  - NO FIELD MODIFICATIONS TO THE SEWAGE SYSTEM SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND THE LOCAL BOARD OF HEALTH.
  - UNLESS OTHERWISE NOTED ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH TITLE V OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL RULES.
  - SEPTIC TANKS, PUMP CHAMBER, AND DOSING CHAMBER SHALL BE MANUFACTURED BY PEMBROKE CONCRETE PRODUCTS OR APPROVED EQUAL AND SHALL WITHSTAND H-10 AND H-20 LOADING CRITERIA AS NOTED.
  - DOUBLE GASKETS AND GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERTIGHT SEAL. MORTAR ALL INLET AND OUTLETS NOT USED ON ALL CONCRETE STRUCTURES.
  - THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS.
  - THE D-BOX OUTLET IS TO BE A MINIMUM OF 2" HIGHER THAN THE INLET OF THE ENVIRO-SEPTIC PIPE. A MINIMUM OF 2% SLOPE IS REQUIRED BETWEEN THE D-BOX AND THE ENVIRO-SEPTIC PIPE. FLOW EQUALIZERS SHALL BE USED ON ALL OUTLETS.
  - INSTALLER SHALL BE TRAINED AND CERTIFIED BY PRESBY ENVIRONMENTAL INC.
  - THE DESIGNER, ROBERT S. REGO, HAS COMPLETED THE ENVIRO-SEPTIC CERTIFICATION COURSE (CERTIFICATE NO: 0235MAES).
  - ALL PRECAST TANKS SHALL BE WATERTIGHT AS DEFINED IN ASTM C1227 98, STANDARD SPECIFICATION FOR PRECAST CONCRETE SEPTIC TANKS, PARAGRAPH 9.2.
  - OTHER THAN THOSE SHOWN, THERE ARE NO KNOWN PUBLIC OR PRIVATE DRINKING WATER SUPPLY WELLS WITHIN 200' OF THE PROPOSED SOIL ABSORPTION SYSTEM.
  - IN ACCORDANCE WITH 310 CMR 15.221, ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.
  - FINISH GRADE SHALL BE SLOPED AWAY FROM ALL MANHOLES IN ORDER TO PRECLUDE SURFACE INFILTRATION.
  - THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED IN A ZONE II (WELL HEAD PROTECTION AREA).
  - LOCATION OF UTILITIES ARE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION AND INVERTS OF UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
  - THE CONTRACTOR IS RESPONSIBLE UNDER MASSACHUSETTS STATE LAW TO NOTIFY DIGSAFE (800.322.4844) TO LOCATE UTILITIES IN THE PROJECT AREA 72 HOURS PRIOR TO THE START OF EXCAVATION.
  - THE PROPERTY IS NOT LOCATED IN A PRIORITY HABITAT OR ESTIMATED HABITAT.
  - AN OUTLET TEE FILTER SHALL BE INSTALLED IN EACH SEPTIC TANK. THE OUTLET TEE FILTER (ZABEL OR APPROVED EQUAL) SHALL BE INSPECTED AND CLEANED ANNUALLY.
  - SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS.
  - MINIMUM OF 6" OF MEDIUM TO COARSE SAND WITH LESS THAN 2% PASSING A # 200 SIEVE IS REQUIRED AROUND THE CIRCUMFERENCE OF ENVIRO-SEPTIC PIPES.
  - DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
  - THE SAND SURROUNDING THE ENVIRO SEPTIC PIPE SHALL MEET ASTM C-33, AS LONG AS 2% OR LESS OF THE SAND PASSES THROUGH A #200 SIEVE.
  - IN ACCORDANCE WITH 310 CMR 15.301(3)(a), THE SEPTIC SYSTEM SHALL BE INSPECTED EVERY THREE YEARS BY A TITLE 5 INSPECTOR.
  - ADDITIONAL SEPTIC SYSTEM MONITORING & MAINTENANCE SHALL BE CONDUCTED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN.

### SEPTIC PUMP NOTES:

- AN AUDIBLE AND VISUAL ALARM SHALL BE PROVIDED. PUMPS TO BE ON SEPARATE CIRCUIT FROM ALARM.
- PUMPS AND APPURTENANCES TO BE INSTALLED AND LOCATED ACCORDING TO MANUFACTURES INSTRUCTIONS AND LOCAL BUILDING AND WIRING CODES.
- PUMPS SHALL CONSIST OF EITHER MYERS MODEL VRH20 OR LIBERTY MODEL LSGX200 SUBMERSIBLE GRINDER PUMPS (OR APPROVED EQUAL). PUMPS SHALL BE RATED AT 2 HP AND SHALL HAVE A 1-1/4" N.P.T. DISCHARGE. THE PUMPS SHALL OPERATE FROM A SINGLE PHASE, 60 HERTZ POWER SUPPLY.
- PUMP CONTROL PANELS SHALL CONSIST OF SIMPLEX ELECTRICAL CONTROL PANELS WITH AN EMERGENCY GENERATOR CONNECTION.
- STAINLESS STEEL BRACKETS AND BOLTS ARE TO BE USED ON ALL SUPPORTS AND VALVES IN SEWER MANHOLES AND PUMP STATIONS INCLUDING WET WELLS, PUMP CHAMBERS AND VALVE VAULTS.



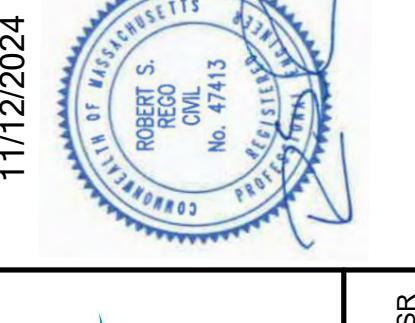
SAS 1A



SAS 1B

BUILDING	TOP OF FND (A)	HOUSE OUT (B)	SEPTIC TANK IN (C)	SEPTIC TANK OUT (D)	PUMP CHAMBER IN (E)	PUMP CHAMBER OUT (F)
1	138	134	133.79	133.54	133.41	133.16
2	142	138	137.79	137.54	137.41	137.16
3	142.5	138.5	138.29	138.04	137.91	137.66
4	144	140	139.79	139.54	139.41	139.16
5	146	142	141.79	141.54	141.41	141.16
6	145	141	140.79	140.54	140.41	140.16
7	144	140	139.79	139.54	139.41	139.16
8	144	140	139.79	139.54	139.41	139.16
9	145	141	140.79	140.54	140.41	140.16
10	145	141	140.79	140.54	140.41	140.16
11	144	140	139.79	139.54	139.41	139.16
12	144	140	139.79	139.54	139.41	139.16
13	145	141	140.79	140.54	140.41	140.16
14	142	138	137.79	137.54	137.41	137.16
15	142	138	137.79	137.54	137.41	137.16
16	139	135	134.79	134.54	134.41	134.16
17	135	131	130.79	130.54	130.41	130.16

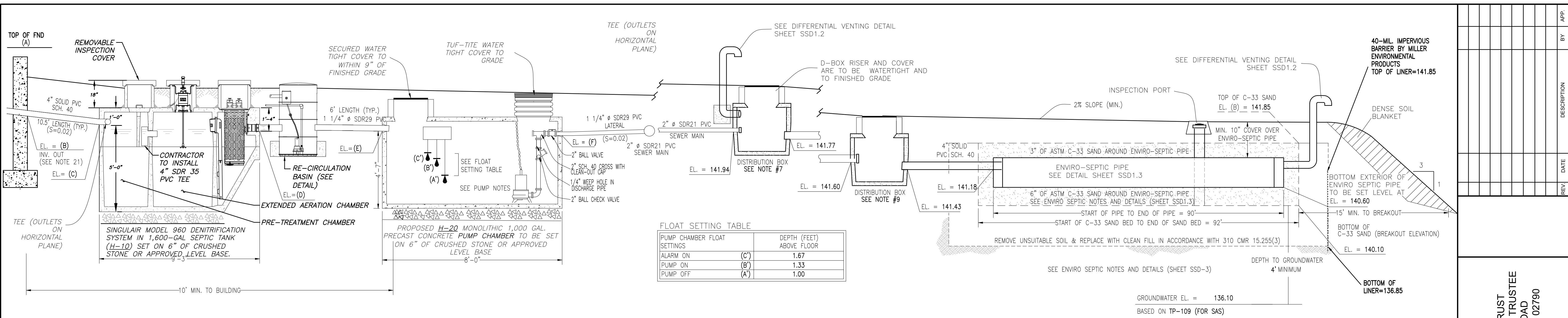
T&A REALTY TRUST  
ANTONIO ALMEIDA, TRUSTEE  
8511 STATE ROAD  
WESTPORT, MA 02790



RiverHawk  
ENVIRONMENTAL  
CIVIL ENGINEERING & ENVIRONMENTAL ASSESSMENT  
511 WEST GROVE STREET, SUITE 301, MIDDLEBOROUGH, MA  
781-536-6399 www.RiverHawkLLC.com

DEFINITIVE SUBDIVISION ALMEIDA RIDGE DIGHTON, MA	SEPTIC SYSTEM DETAILS - 1
DATE: NOV. 12, 2024 PROJECT NO. 00106-06-01 SCALE: AS SHOWN	DRAWN BY: RSR CHECKED BY: RSR APPROVED BY: RSR REV. DATE: APP.

SSD-1



COMMUNITY SEPTIC SYSTEM PROFILE - SAS 2  
NOT TO SCALE

SAS 2A

SEPTIC SYSTEM DESIGN DATA: - SAS 2

DESIGN FLOW:

PROP. 17 DWELLING UNITS W/ 4-BEDROOMS PER UNIT  
68 BEDROOMS x 110 GPD/BEDROOM = 7,480 GPD

SOIL ABSORPTION SYSTEM (ENVIRO-SEPTIC):

PERCOLATION RATE = 5 MIN./INCH (CLASS II SOIL)  
USE STANDARD ENVIRO-SEPTIC PIPE IN BED CONFIGURATION

TASK 1: LINEAR FEET OF ENVIRO-SEPTIC PIPE REQUIRED

DESIGN LOADING RATE = 60 LF OF ENVIRO-SEPTIC PIPE/100 GPD = 0.6 LF/GPD  
LINEAR FEET OF ENVIRO-SEPTIC PIPE REQ'D =

$(7,480 \text{ GPD}) \times (0.60 \text{ LF/GPD}) = 4,488 \text{ LF}$

DIVIDE SAS INTO 2 SECTIONS =  $4,488 \text{ LF} / 2 = 2,244 \text{ LF}$

TASK 2: SLOPE OF PROPOSED SAS

SAND BED TO HAVE NO SLOPE

TASK 3: MINIMUM CENTER TO CENTER SPACING

MINIMUM CENTER TO CENTER PIPE SPACING = 1.75'

DESIGN CENTER TO CENTER PIPE SPACING = 1.75'

TASK 4: LINE LAYOUT

USE A COMBINATION SYSTEM

LINEAR FEET OF ENVIRO-SEPTIC PIPE PROVIDED =

USE 90 LF (LINE LENGTH) X 3 (LINES) = 270 LF OF ENVIRO-SEPTIC

PER SECTION OF COMBINATION SYSTEM.

$270 \text{ LF} \times (100 \text{ GPD}/60 \text{ LF}) = 450 \text{ GPD} < 500 \text{ GPD MAX.}$

$2 \text{ BEDS} \times (9 \text{ SECTIONS}) \times 270 \text{ LF OF PIPE} = 4,860 \text{ L.F. OF PIPE} > 4,488 \text{ LF}$

TASK 5: TOTAL SYSTEM BED AREA

AREA OF EACH SAND BED =  $(92' \text{ LONG} \times 49' \text{ WIDE}) = 4,508 \text{ SF}$

AREA OF BOTH SAND BEDS =  $4,508 \text{ SF} \times 2 = 9,016 \text{ SF}$

AREA OF TYPICAL AGGREGATE SYSTEM =  $(7,480 \text{ GPD}) / (0.53 \text{ GPD/SF}) = 14,113 \text{ SF}$

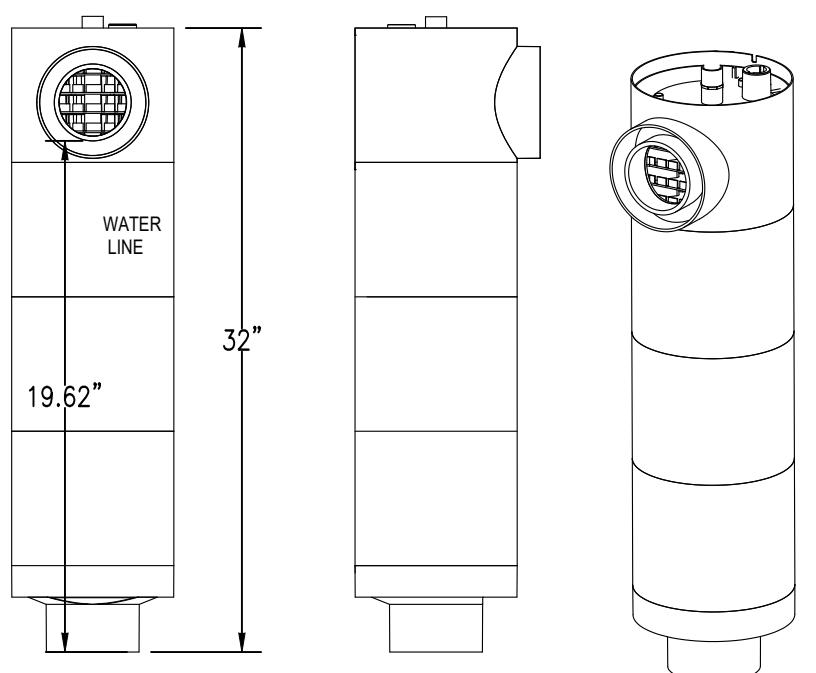
MINIMUM AREA OF SAND BED REQUIRED =  $(14,113 \text{ SF}) \times (0.60) = 8,468 \text{ SF}$

(PROVIDED) 9,016 SF > 8,468 SF (MINIMUM REQUIRED)

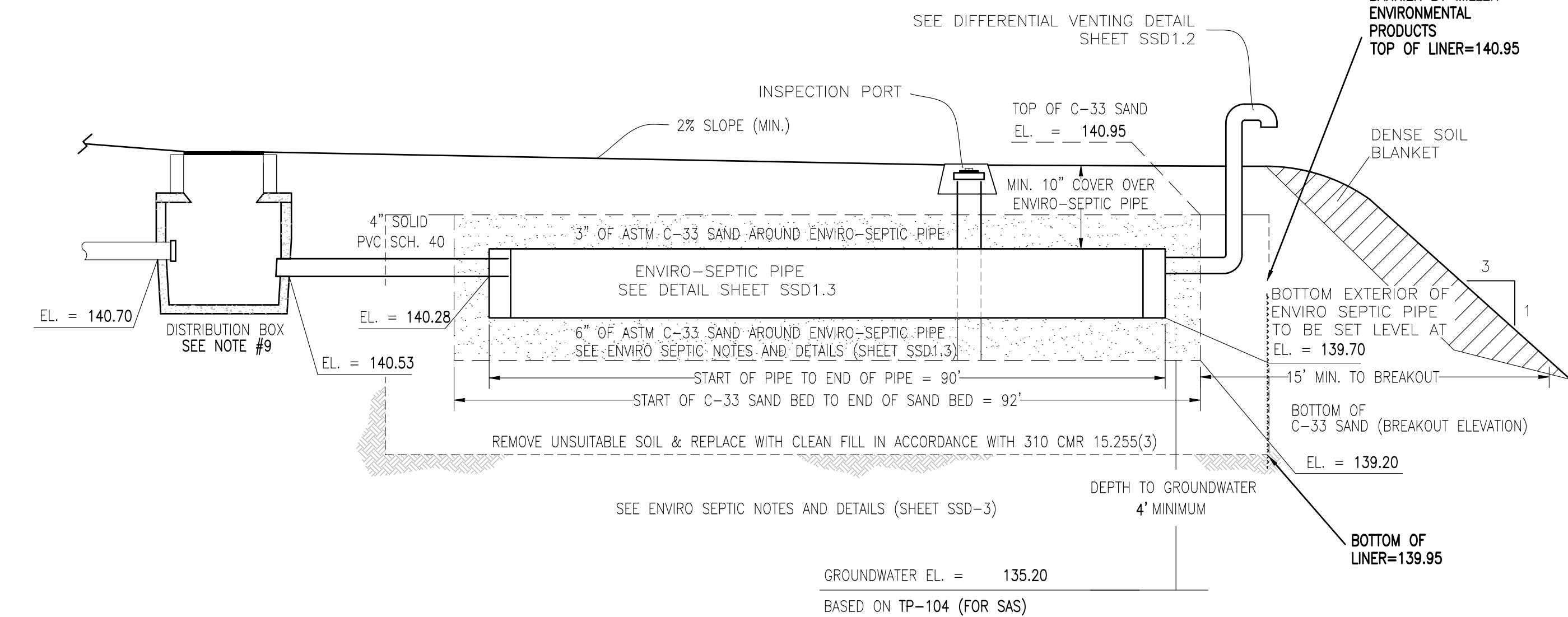
FLOW PROVIDED:

$(4,860 \text{ L.F.}) \times (100 \text{ GPD}/60 \text{ L.F.}) = 8,100 \text{ GPD}$

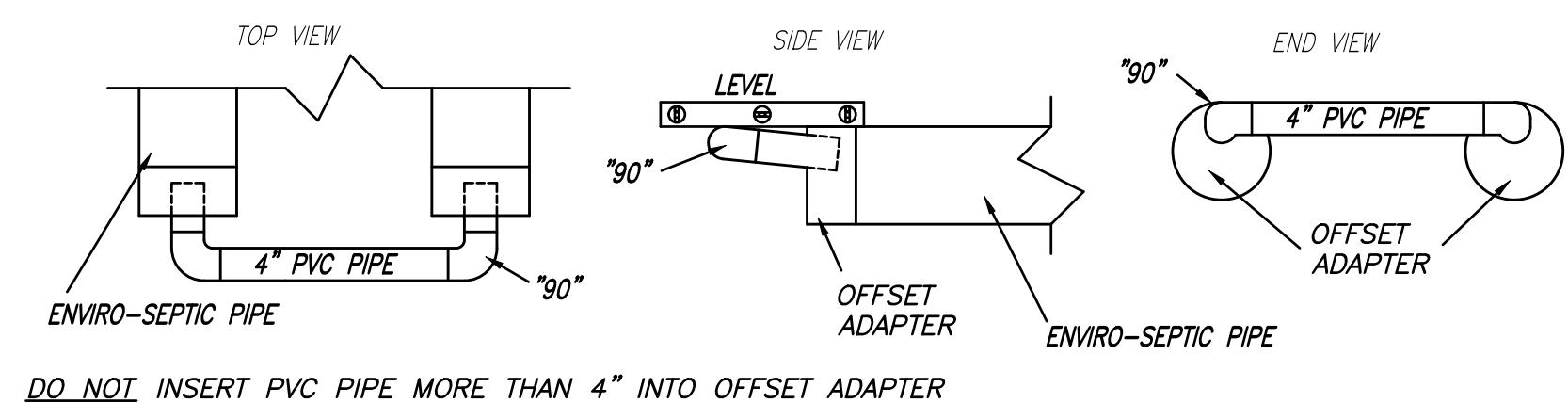
$8,100 \text{ GPD} > 7,480 \text{ GPD}$



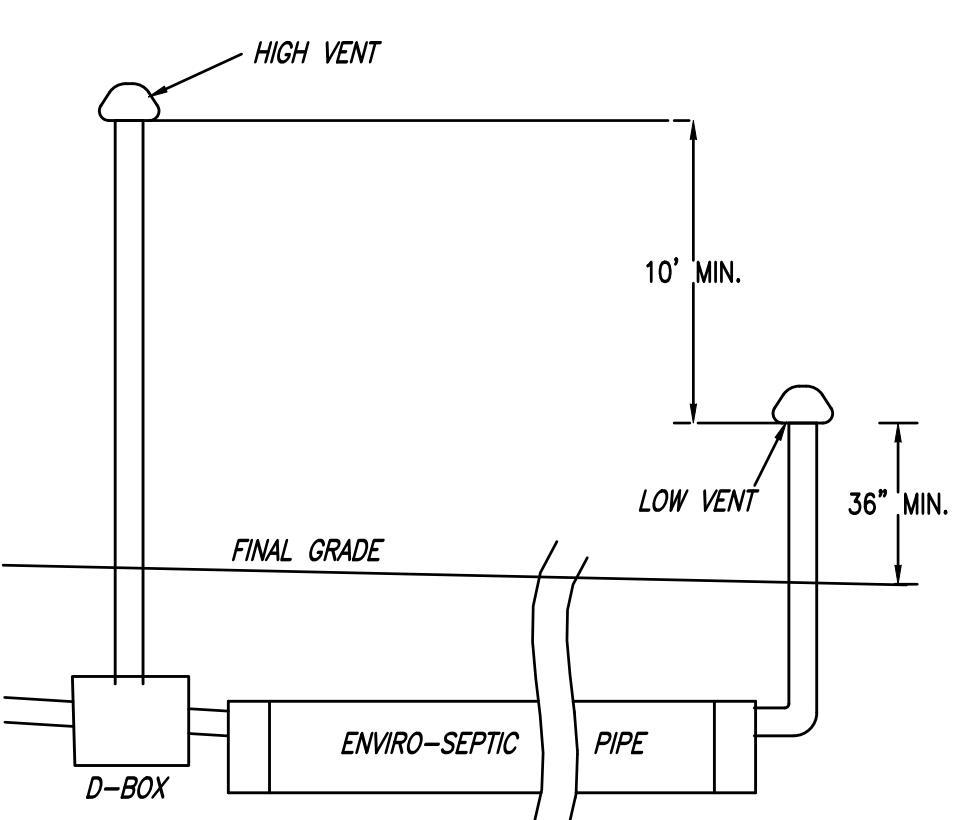
ZABEL A100 OUTLET FILTER  
NOT TO SCALE



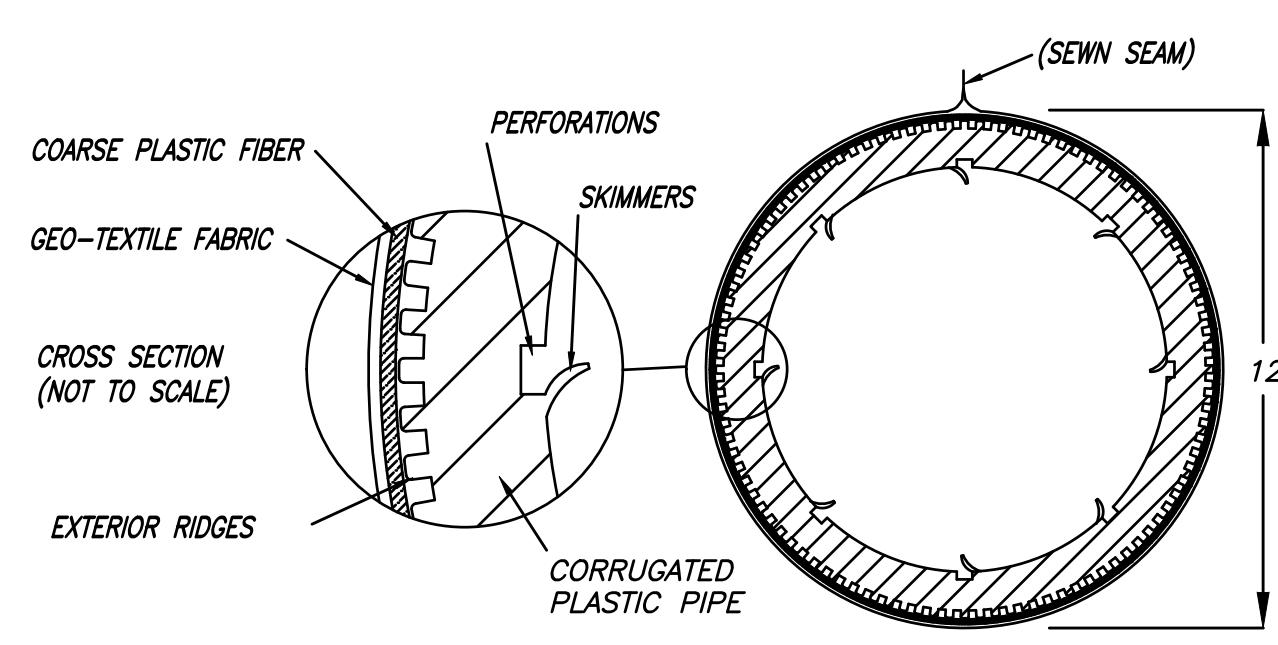
SAS 2B



RAISED CONNECTION  
NOT TO SCALE



DIFFERENTIAL VENTING DETAIL  
NOT TO SCALE



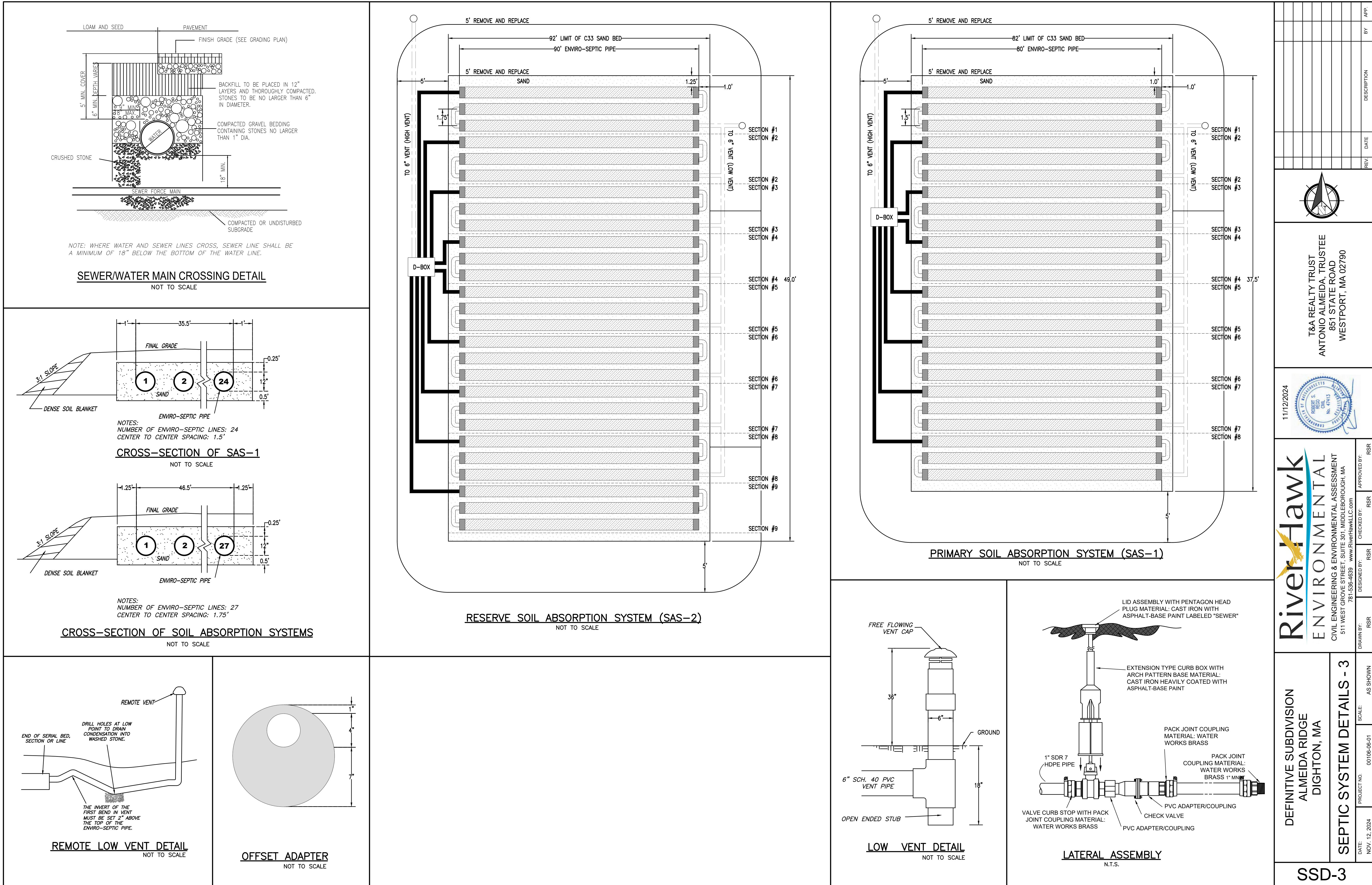
ENVIRO-SEPTIC LEACHING SYSTEM  
NOT TO SCALE

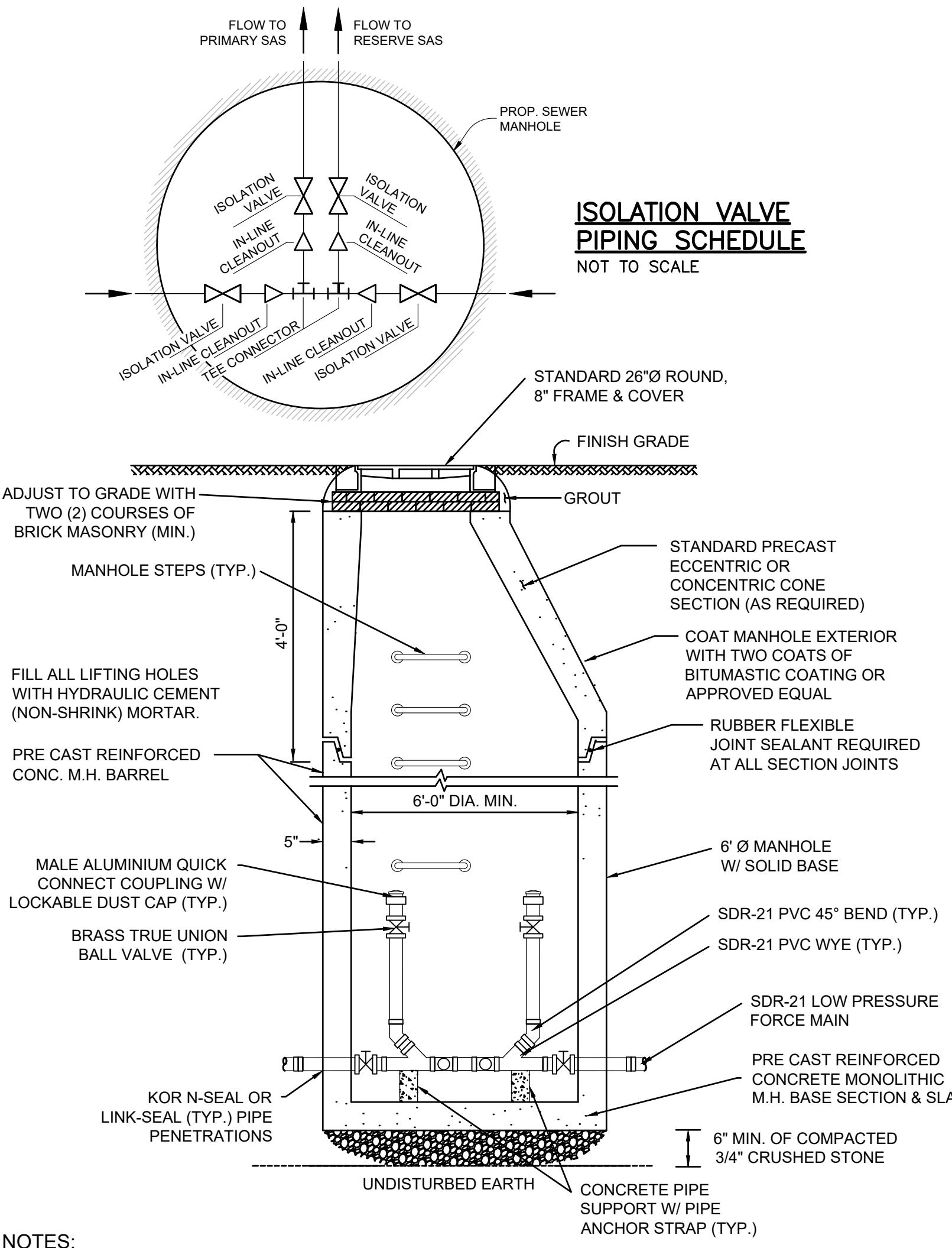
T&A REALTY TRUST ANTONIO ALMEIDA, TRUSTEE 851 STATE ROAD WESTPORT, MA 02790			
		REV.	DATE
		DESCRIPTION	BY
APP.			

**RiverHawk ENVIRONMENTAL**  
CIVIL ENGINEERING & ENVIRONMENTAL ASSESSMENT  
511 WEST GROVE STREET, SUITE 301, MIDDLEBOROUGH, MA  
781-536-6399 www.RiverHawkLLC.com

DEFINITIVE SUBDIVISION ALMEIDA RIDGE Dighton, MA	DRAWN BY: RSR	DESIGNED BY: RSR	APPROVED BY: RSR
SEPTIC SYSTEM DETAILS - 2	AS SHOWN	CHECKED BY: RSR	
DATE: NOV. 12, 2024	PROJECT NO. 00106-06-01	SCALE:	

SSD-2



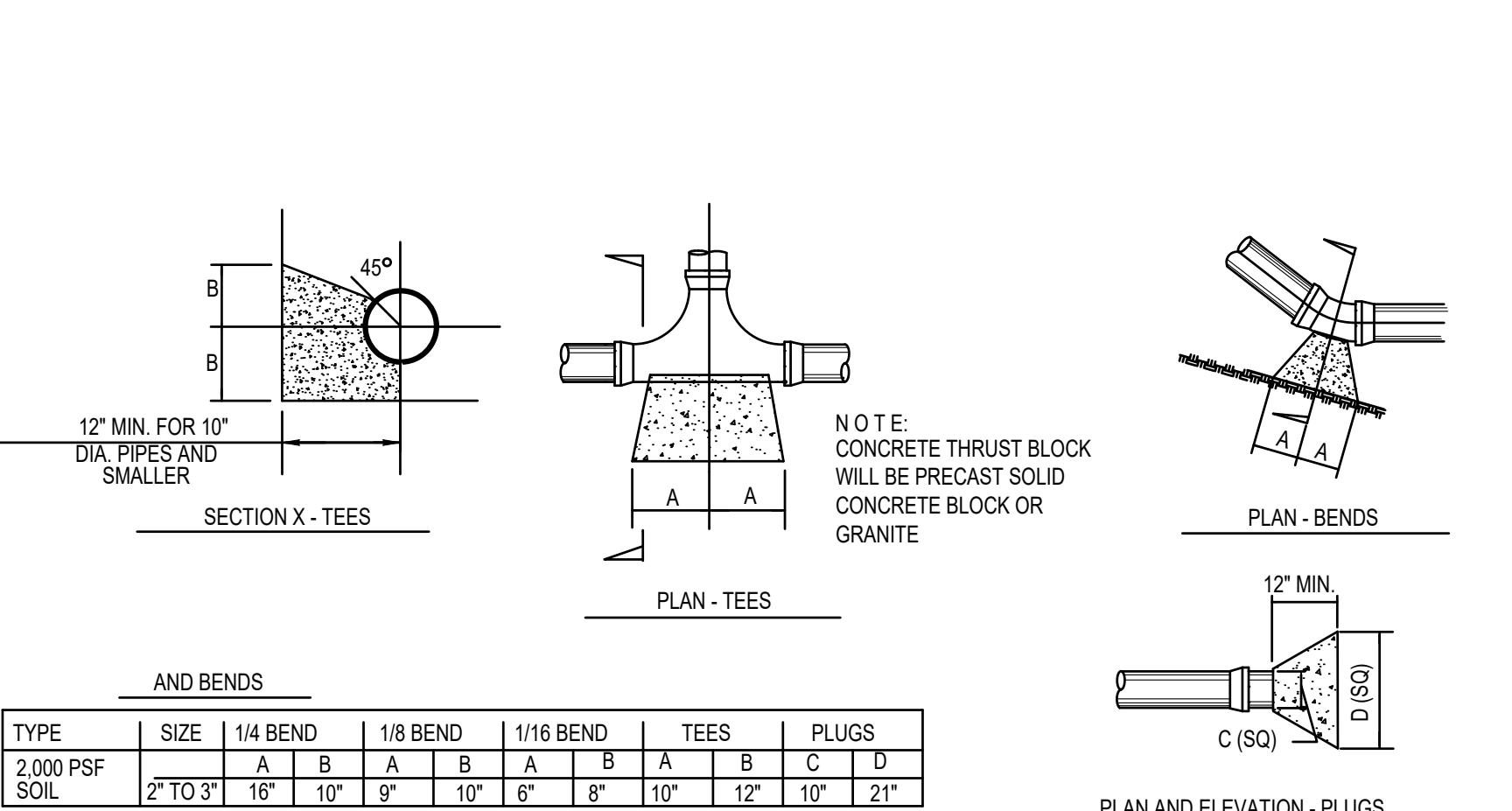


## NOTES

## 1. TYPICAL SANITARY MANHOLE TO BE 6 FEET IN DIAMETER...

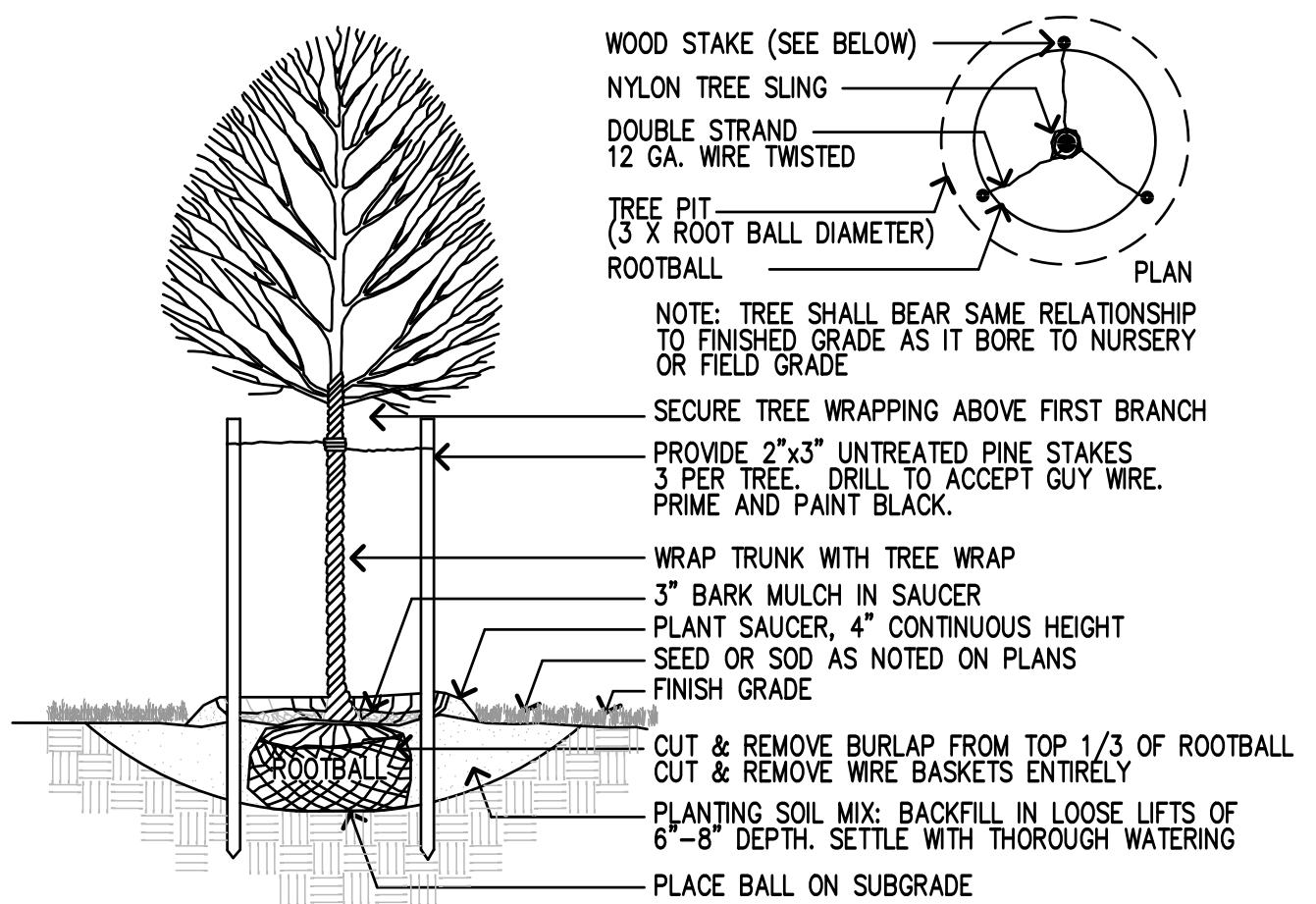
# LOW PRESSURE IN-LINE (2-WAY/3-WAY) CLEANOUT/ISOLATION STATION DETAIL

NOT TO SCALE



**THRUST BLOCK DETAIL**  
NOT TO SCALE

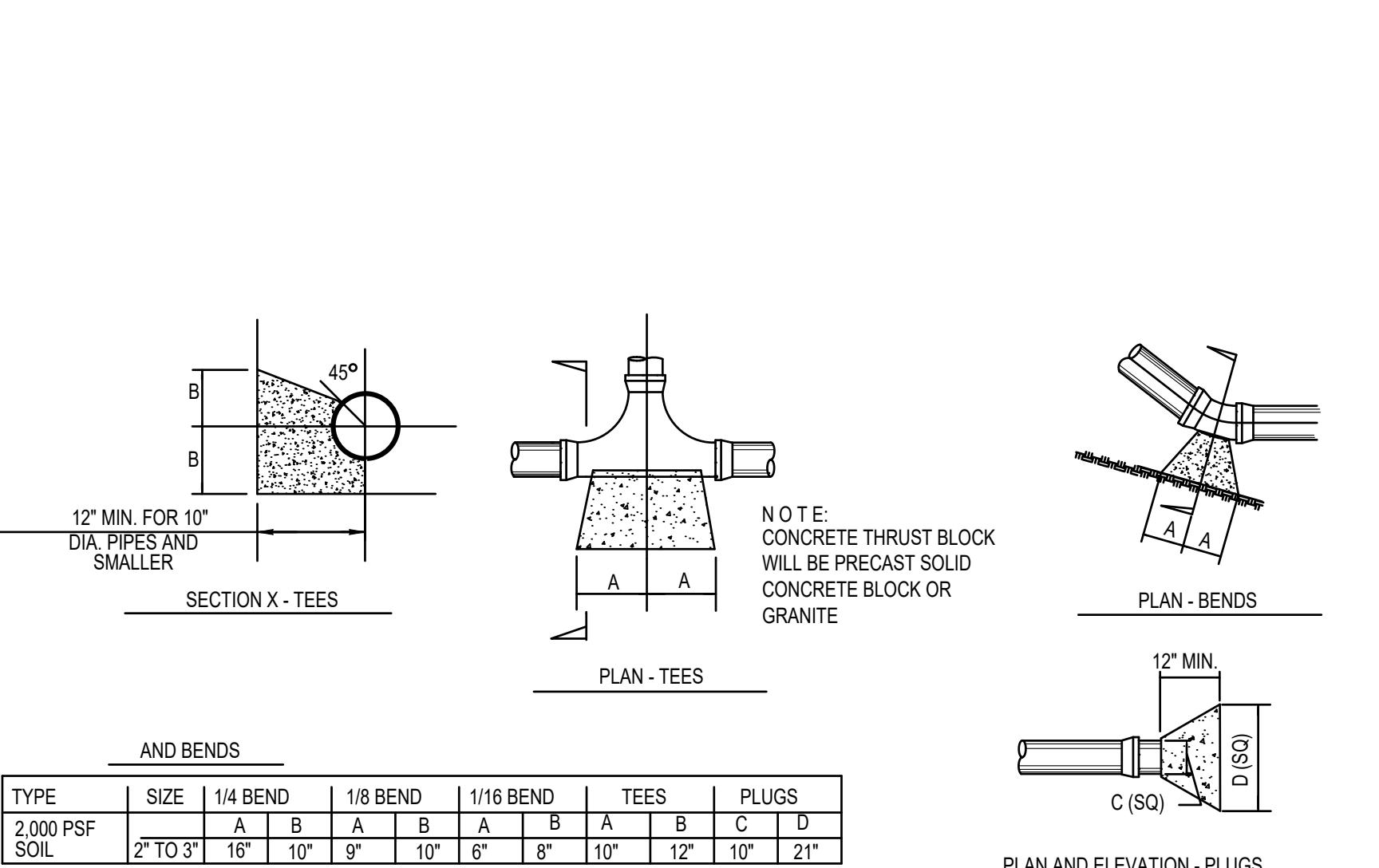
NOT TO SCALE



# DECIDUOUS TREE PLANTING AND STAKING

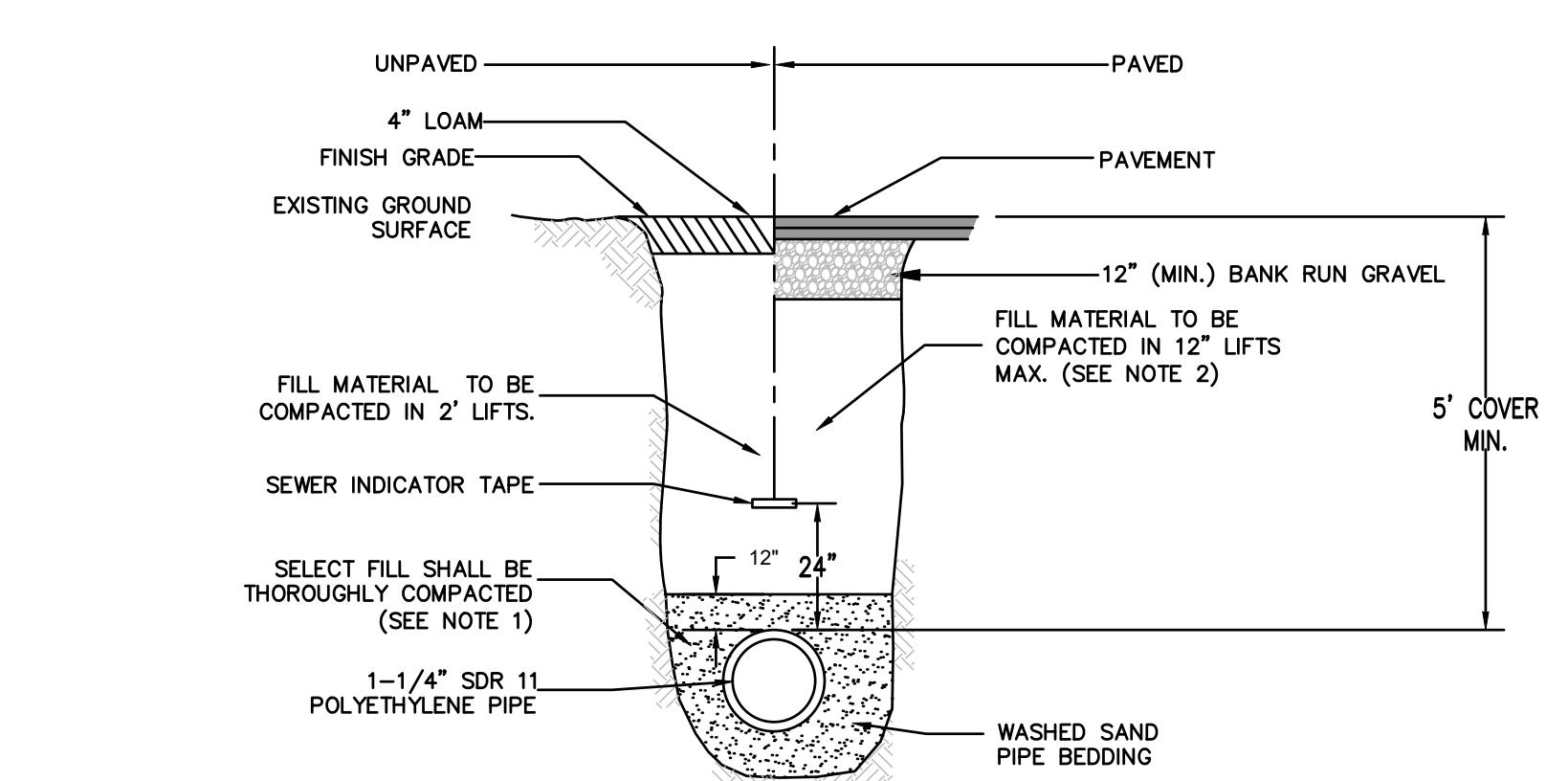
NOT TO SCALE

NOT TO SCALE



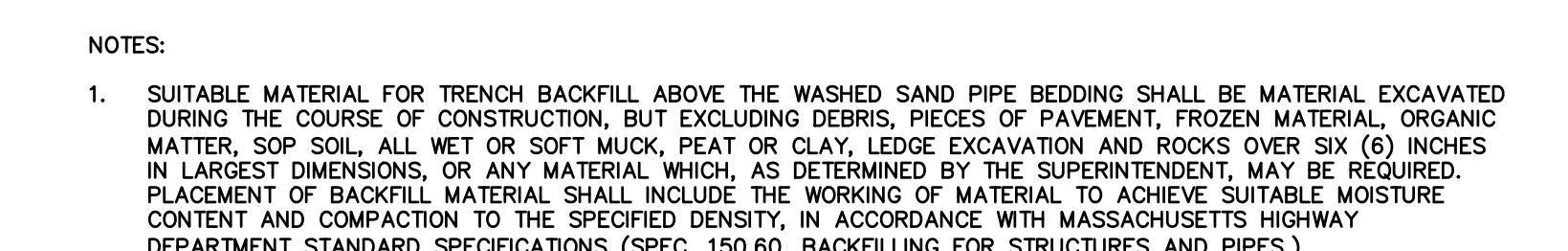
THRUST BLOCK DETAIL  
NOT TO SCALE

NOT TO SCALE



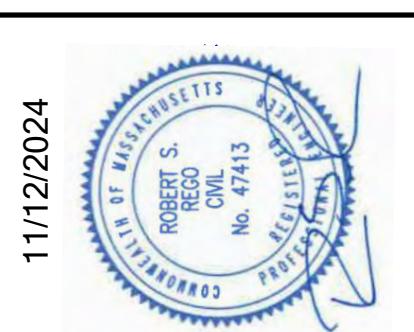
# FORCE MAIN TRENCH

## MAIN TREES

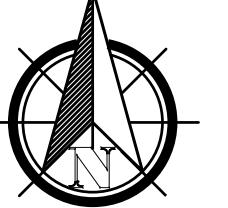


DEFINITIVE SUBDIVISION  
ALMEIDA RIDGE  
DIGHTON, MA

SEP



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<b>CIVIL ENGINEERING &amp; ENVIRONMENTAL ASSESSMENT</b> <b>5111 WEST GROVE STREET, SUITE 301, MIDDLEBOROUGH, MA</b> <b>781-536-4639 <a href="http://www.RiverHawkLLC.com">www.RiverHawkLLC.com</a></b>			
OWNED BY: RSR	DESIGNED BY: RSR	CHECKED BY: RSR	APPROVED RSR