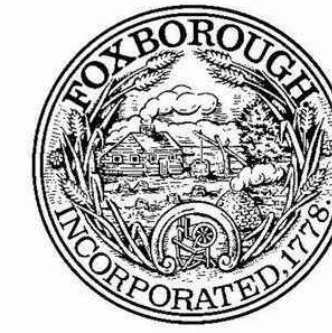


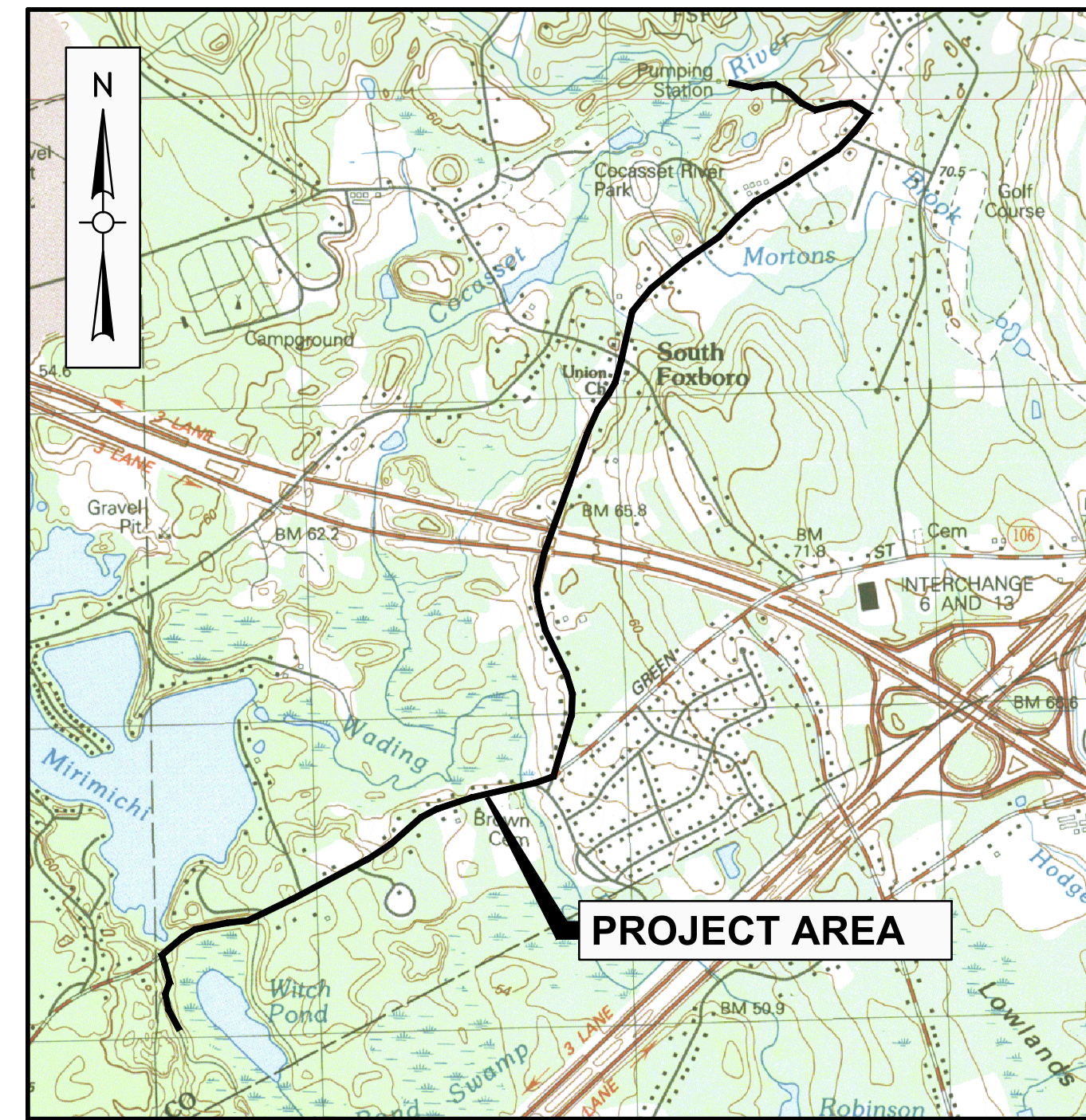
TOWN OF FOXBOROUGH, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS

SOUTH STREET AND CEDAR STREET RAW WATER MAIN IMPROVEMENTS



Weston & Sampson Engineers, Inc.
 55 Walkers Brook Drive, Suite 100
 Reading, MA 01867
 978.532.1900 800.SAMPSON
 www.westonandsampson.com



LOCUS MAP
 SCALE: N.T.S.

WILLIAM G. KEEGAN, JR.
 TOWN MANAGER

CHRIS GALLAGHER, DIRECTOR
 DEPARTMENT OF PUBLIC WORKS

LANCE DELPRIORE, PE
 TOWN ENGINEER

ROBERT B. WORTHLEY, SUPERINTENDENT
 WATER AND SEWER DEPARTMENT

DRAWING INDEX	
SHEET	TITLE
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C101	CEDAR STREET
C102	CEDAR STREET AND SOUTH STREET
C103	SOUTH STREET
C104	SOUTH STREET
C105	SOUTH STREET
C106	SOUTH STREET AND SPRAGUE STREET
C107	CONSTRUCTION ZONE SAFETY PLAN I
C107	CONSTRUCTION ZONE SAFETY PLAN II
C501	DETAILS I
C502	DETAILS II
S501	SOUTH STREET - BRACING DEMOLITION
S502	SOUTH STREET - UTILITY SUPPORT RETROFIT
S503	SOUTH STREET - REMOVABLE APPROACH SLAB DETAILS
S504	CEDAR STREET - BRIDGE PLAN, ELEVATION, AND SECTION DETAILS

Issued Date:

JULY 2022



Know what's below.
 Call before you dig.

Issued For:



Tara E. McManus

FOR PERMIT REVIEW ONLY

LEGEND

Table with 3 columns: DESCRIPTION, EXISTING, PROPOSED. Lists various infrastructure items like sanitary sewer, force main, water main, storm drain, electrical manhole, catch basin, hydrant, valve, curb, sidewalk, railroad, retaining wall, fence, trees, survey markers, property lines, elevations, contours, depression lines, house numbers, floor elevation, sill elevation, wetland, wetland flags, rip rap, state highway station, surface mounted delineator, guard post, bollard, sign, bench mark, auger, percolation test, test pit, boring, probe, groundwater monitoring well, gas monitoring well, gas vent, hay bales, rock outcrop, drainage ditch / swale.

ABBREVIATIONS

Table with 2 columns: Abbreviation (e.g., AC, ACCMP, ARV, ASTM, BC, BIT, BLDG) and Full Name (e.g., ASBESTOS CEMENT PIPE, ASPHALT COATED CORRUGATED METAL PIPE, AIR RELEASE VALVE).

CONSTRUCTION NOTES

- 1. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AND CITY/TOWN DEPARTMENTS AS APPROPRIATE AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED WATER MAIN TO CLEAR EXISTING UTILITIES OR VERIFY EXISTING UTILITY LOCATION, SIZE AND TYPE.
... (Notes 4-31) ...

NOTE:

- * THESE NOTES SHALL BE VERIFIED, MODIFIED, OR DELETED AS REQUIRED FOR EACH PROJECT.

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

Project: TOWN OF FOXBOROUGH, MASSACHUSETTS. Logo of Foxborough Incorporated 1718. SOUTH STREET AND CEDAR STREET RAW WATER MAIN IMPROVEMENTS.

Weston & Sampson logo. Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867 978.532.1900 800.SAMPSON www.westonandsampson.com

Table with 3 columns: No., Date, Description. For revisions.

Table with 3 columns: No., Date, Description. For revisions.

Professional Engineer Seal: TARA E. MCMANUS, No. 57127, REGISTERED PROFESSIONAL ENGINEER.

FOR PERMIT REVIEW ONLY

Scale: AS NOTED
Date: JULY 2022
Drawn By: GJK
Reviewed By: LHK
Approved By: TEM

W&S Project No.: ENG20-0384
W&S File No.:

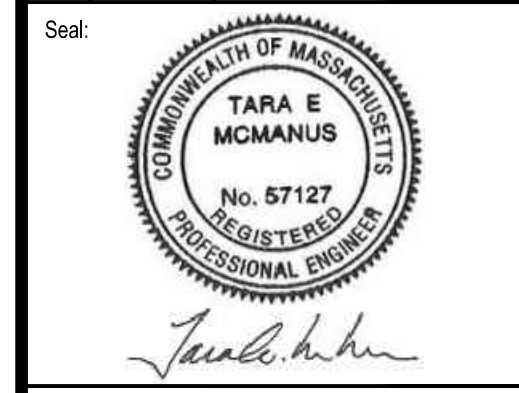
Drawing Title: ABBREVIATIONS, NOTES, AND LEGEND

Sheet Number: G001

Consultants:

Revisions:

No.	Date	Description



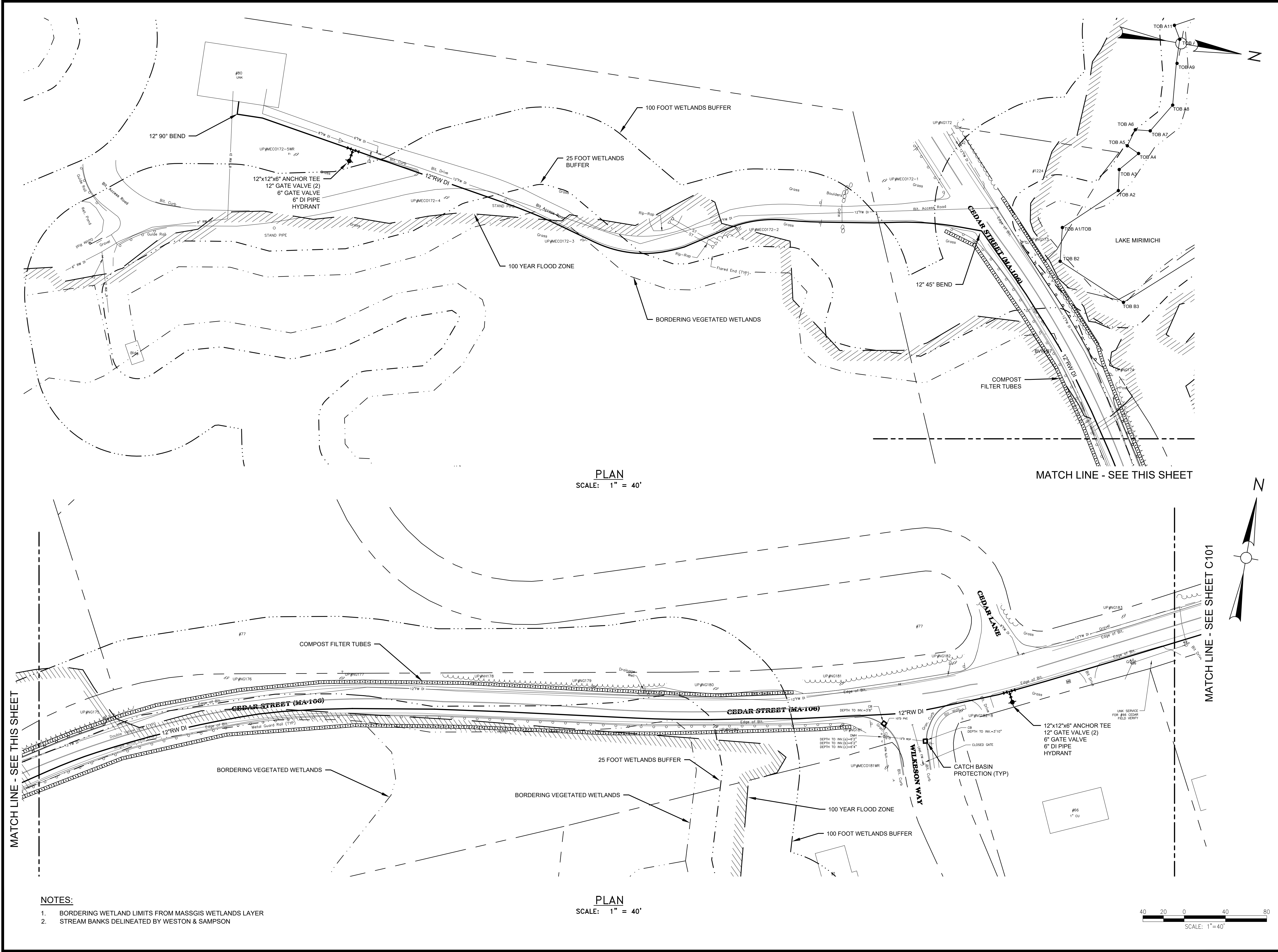
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W&S File No.:

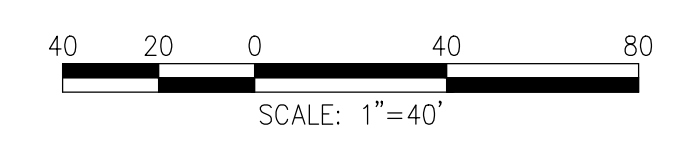
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CEDAR STREET
Sheet Number:
C100



PLAN
SCALE: 1" = 40'

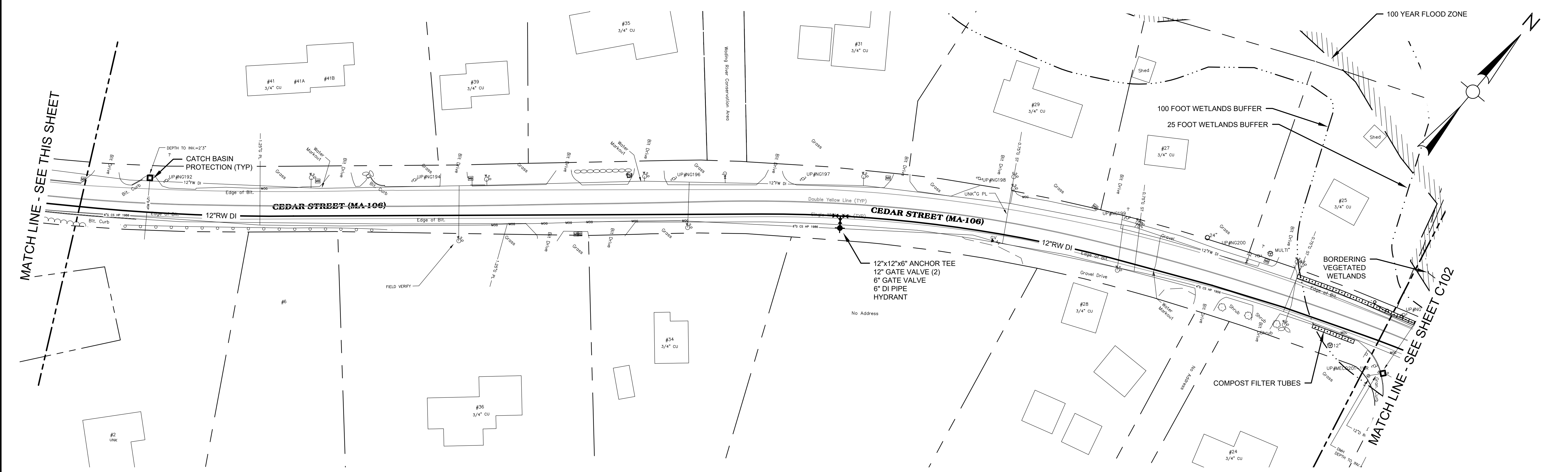
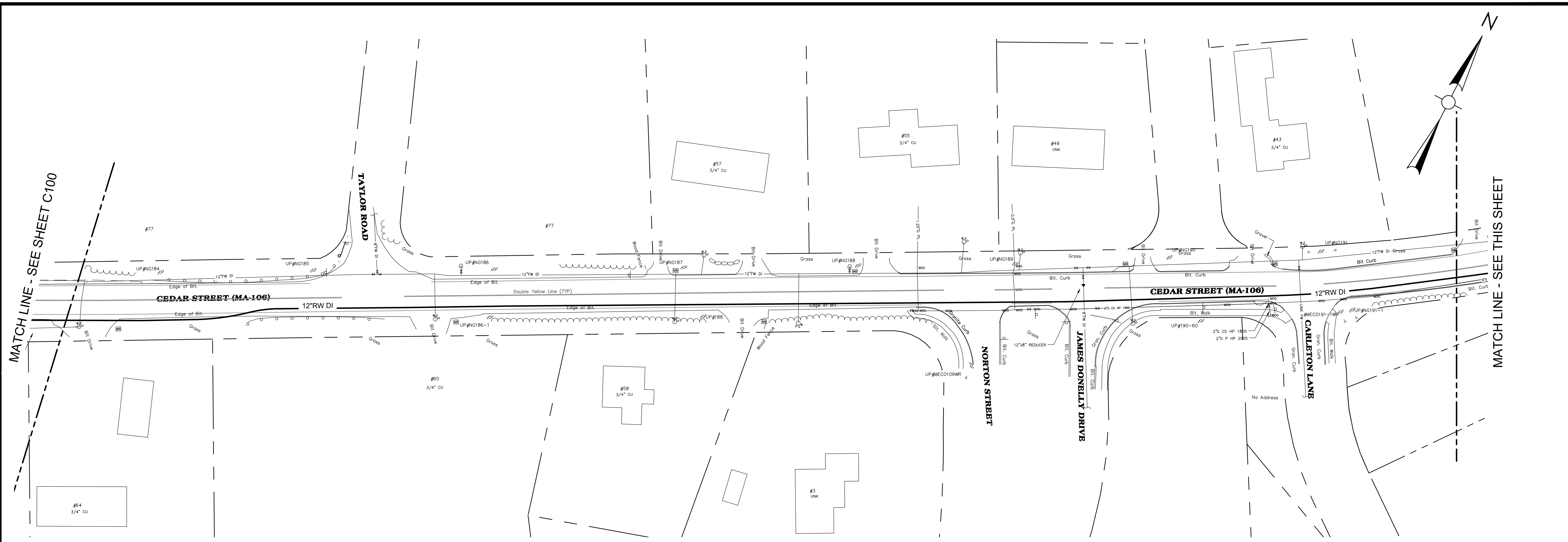
PLAN
SCALE: 1" = 40'

- NOTES:**
- BORDERING WETLAND LIMITS FROM MASSGIS WETLANDS LAYER
 - STREAM BANKS DELINEATED BY WESTON & SAMPSON

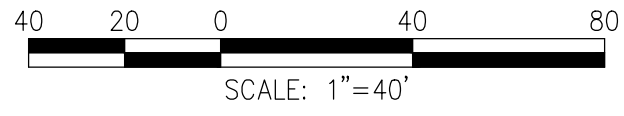


W&S Project No.: ENG20-0384; W&S File No.: C100; Date: July 2022

Rev: 2.0 Date: July 2022



- NOTES:**
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No. 57127
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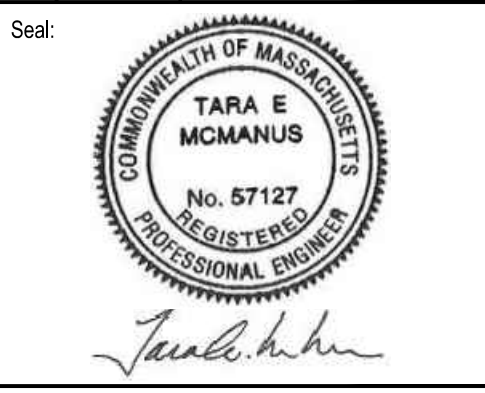
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Date: JULY 2022
Drawn By: GJK
Reviewed By: LHK
Approved By: TEM
W&S Project No.: ENG20-0384
W&S File No.:

Drawing Title:
CEDAR STREET
Sheet Number:
C101

Consultants:

Revisions:

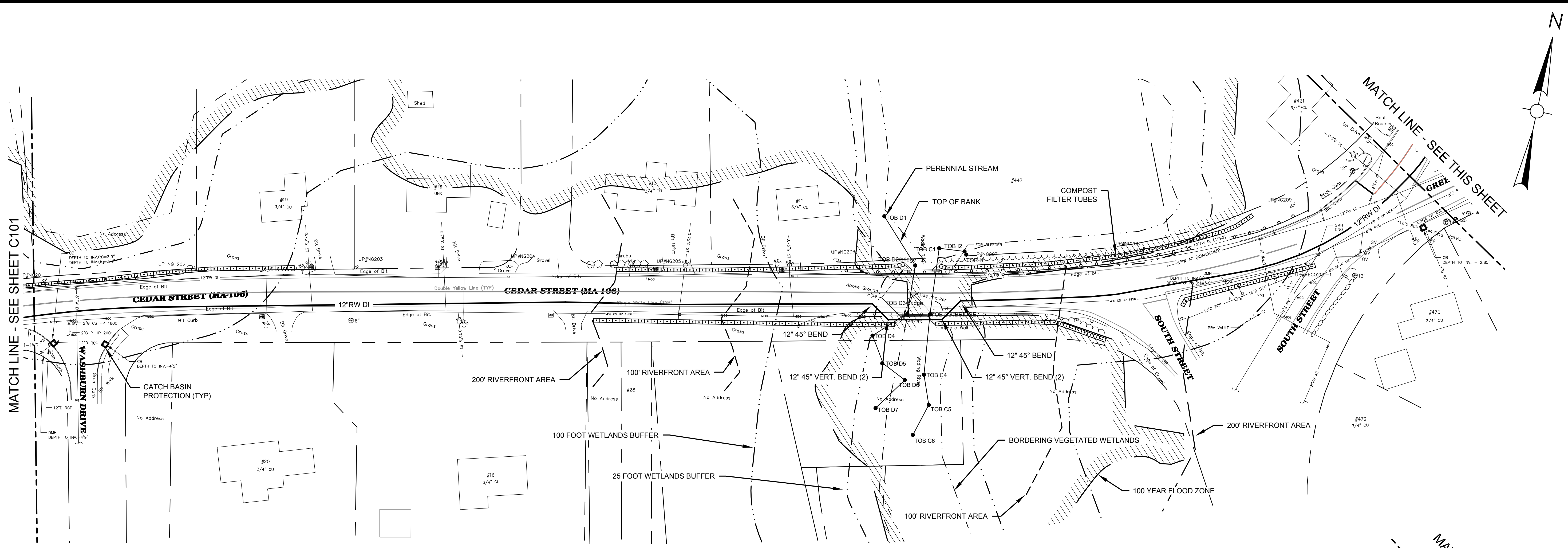
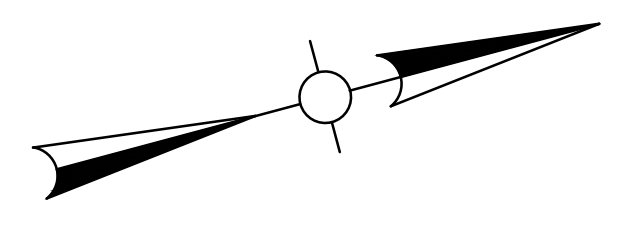
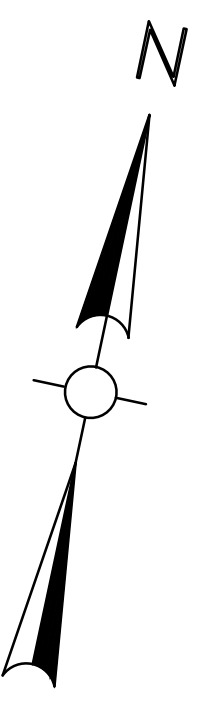
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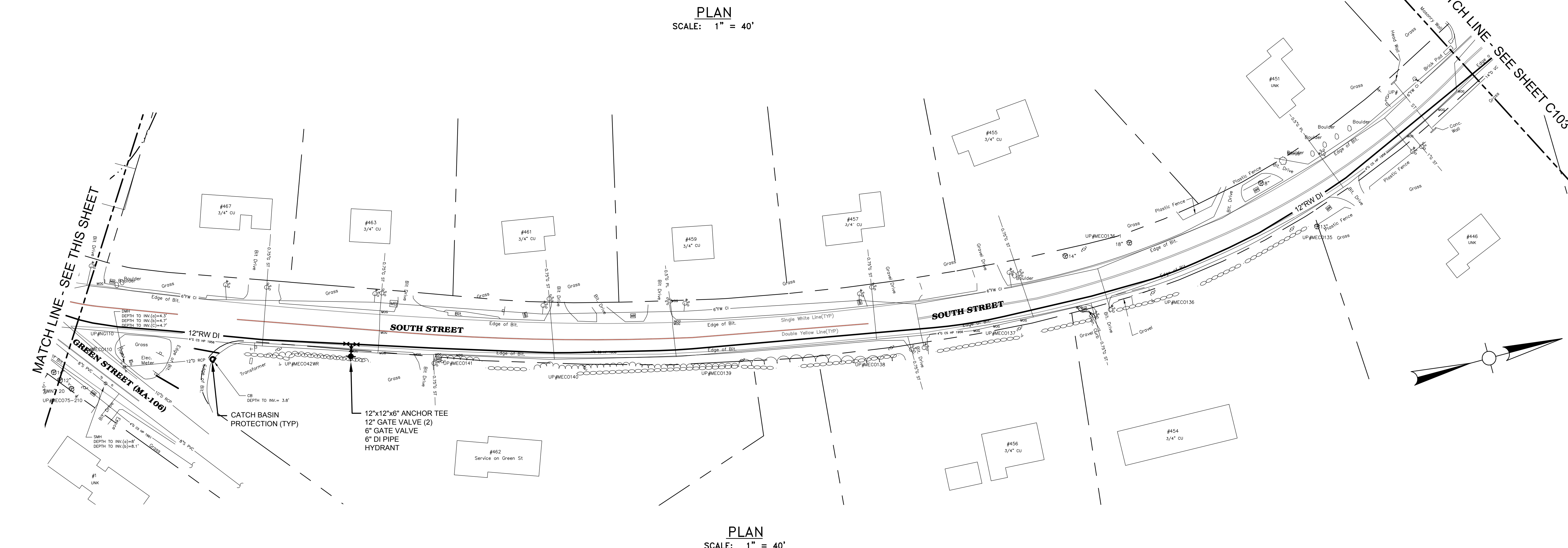
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W&S File No.:

Drawing Title:
CEDAR STREET SOUTH STREET
Sheet Number:
C102

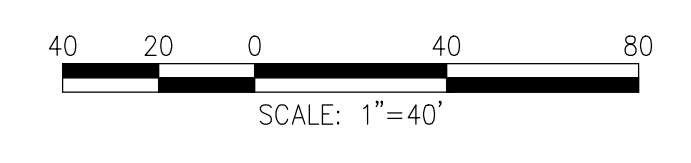


PLAN
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

- NOTES:
- BORDERING WETLAND LIMITS FROM MASSGIS WETLANDS LAYER
 - STREAM BANKS DELINEATED BY WESTON & SAMPSON
 - SEE STRUCTURAL PLANS FOR THE CEDAR STREET BRIDGE CROSSING



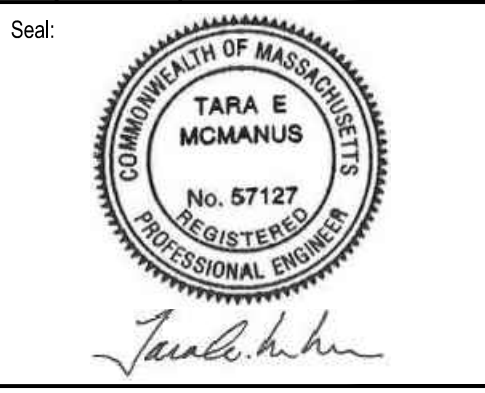
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REV: 2.0 Date: July 2022

Consultants:

Revisions:

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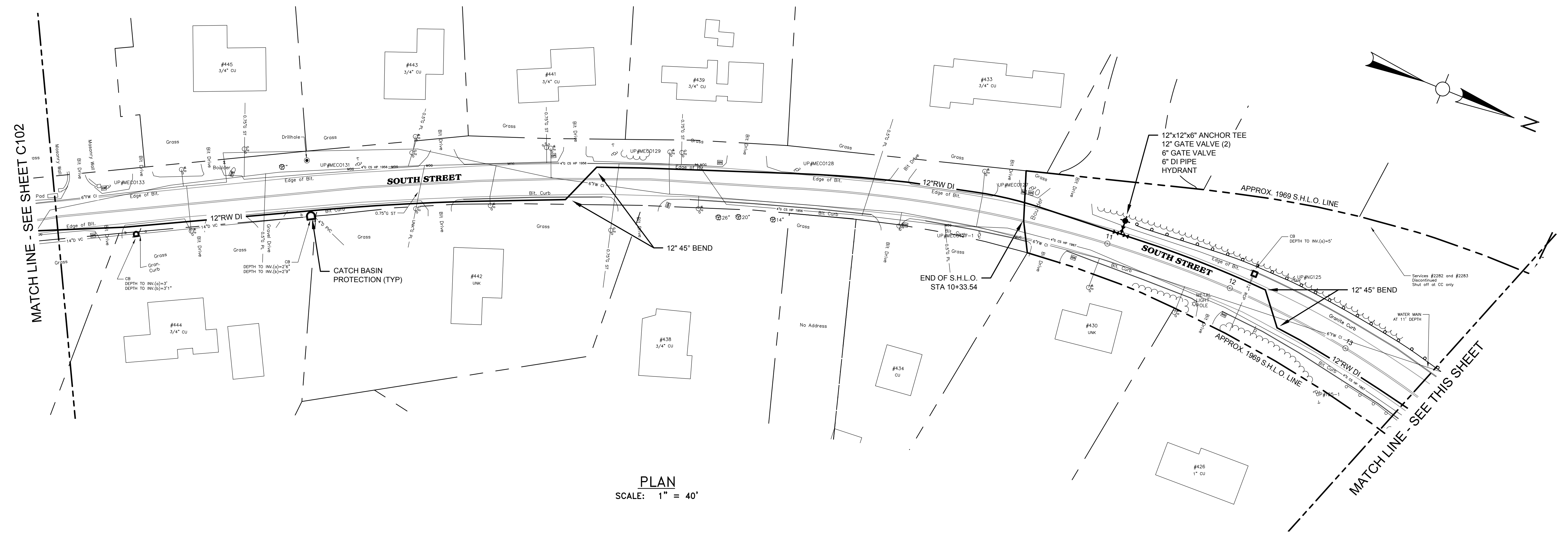


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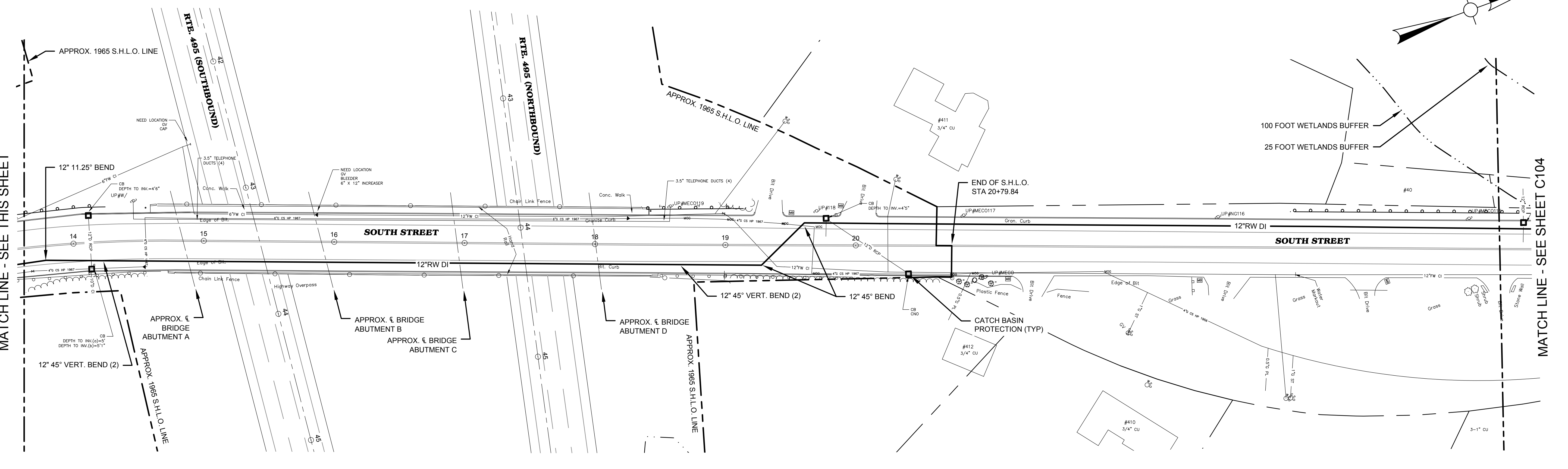
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Date: JULY 2022
Drawn By: GJK
Reviewed By: LHK
Approved By: TEM

W&S Project No.: ENG20-0384
W&S File No.:

Drawing Title:
SOUTH STREET
Sheet Number:
C103

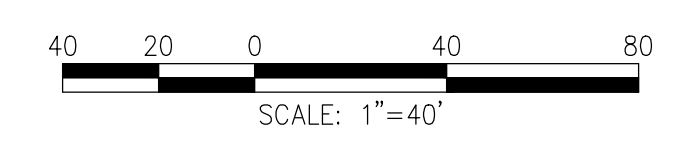


PLAN
SCALE: 1" = 40'



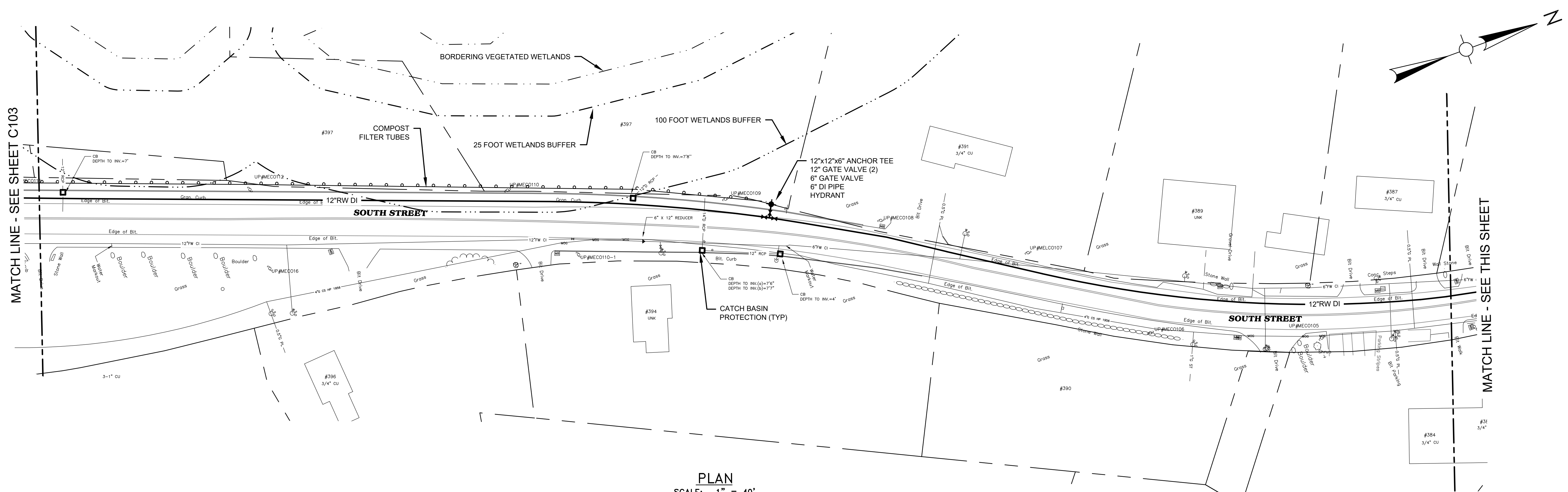
PLAN
SCALE: 1" = 40'

NOTE:
1. SEE STRUCTURAL PLANS FOR MORE INFORMATION FOR THE MassDOT BRIDGE CROSSING.

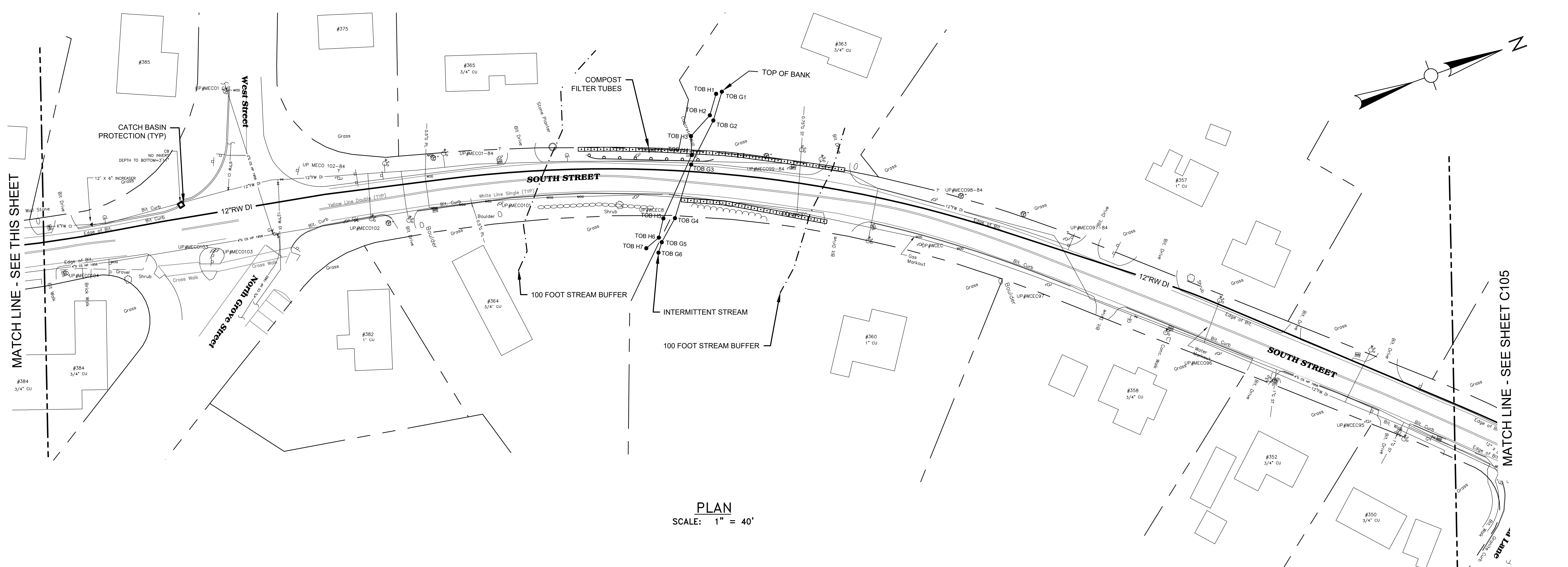


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Rev. 2.0 Date: July 2022

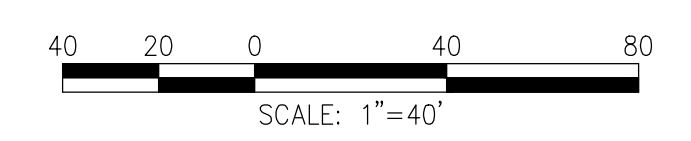


PLAN
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'

- NOTES:
- BORDERING WETLAND LIMITS FROM MASSGIS WETLANDS LAYER
 - STREAM BANKS DELINEATED BY WESTON & SAMPSON



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Reviewed By: LHK
Approved By: TEM

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W&S File No.:

Drawing Title:

SOUTH STREET

Sheet Number:

C104

Rev. 2.0 Date: JULY 2022

Revisions:

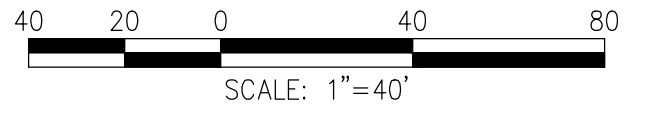
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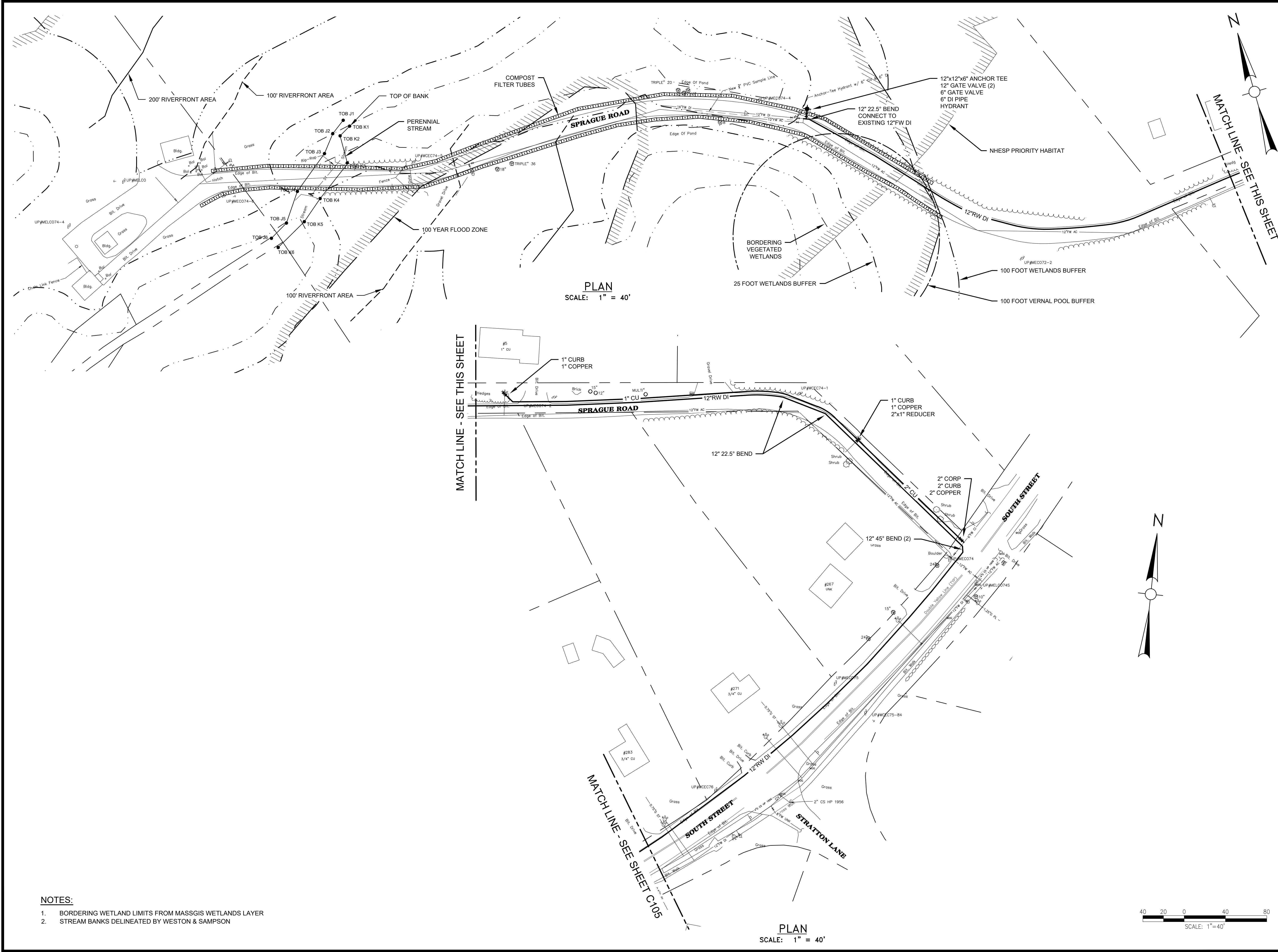


PLAN
SCALE: 1" = 40'

PLAN
SCALE: 1" = 40'

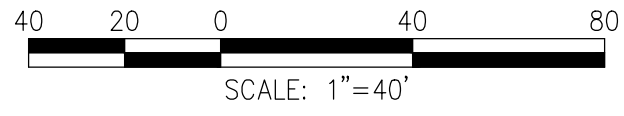
- NOTES:
- BORDERING WETLAND LIMITS FROM MASSGIS WETLANDS LAYER
 - STREAM BANKS DELINEATED BY WESTON & SAMPSON





PLAN
SCALE: 1" = 40'

PLAN
SCALE: 1" = 40'



- NOTES:**
1. BORDERING WETLAND LIMITS FROM MASSGIS WETLANDS LAYER
 2. STREAM BANKS DELINEATED BY WESTON & SAMPSON

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Reviewed By:	LHK
Approved By:	TEM
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W&S File No.:	

Drawing Title:

**SOUTH STREET
SPRAGUE STREET**

Sheet Number:

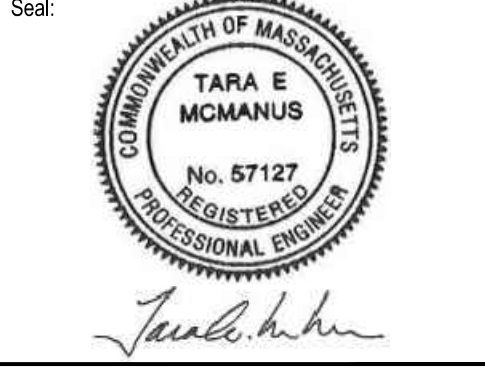
C106

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Revisions:

No.	Date	Description



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Drawing Title:

DETAILS I

Sheet Number:

C501

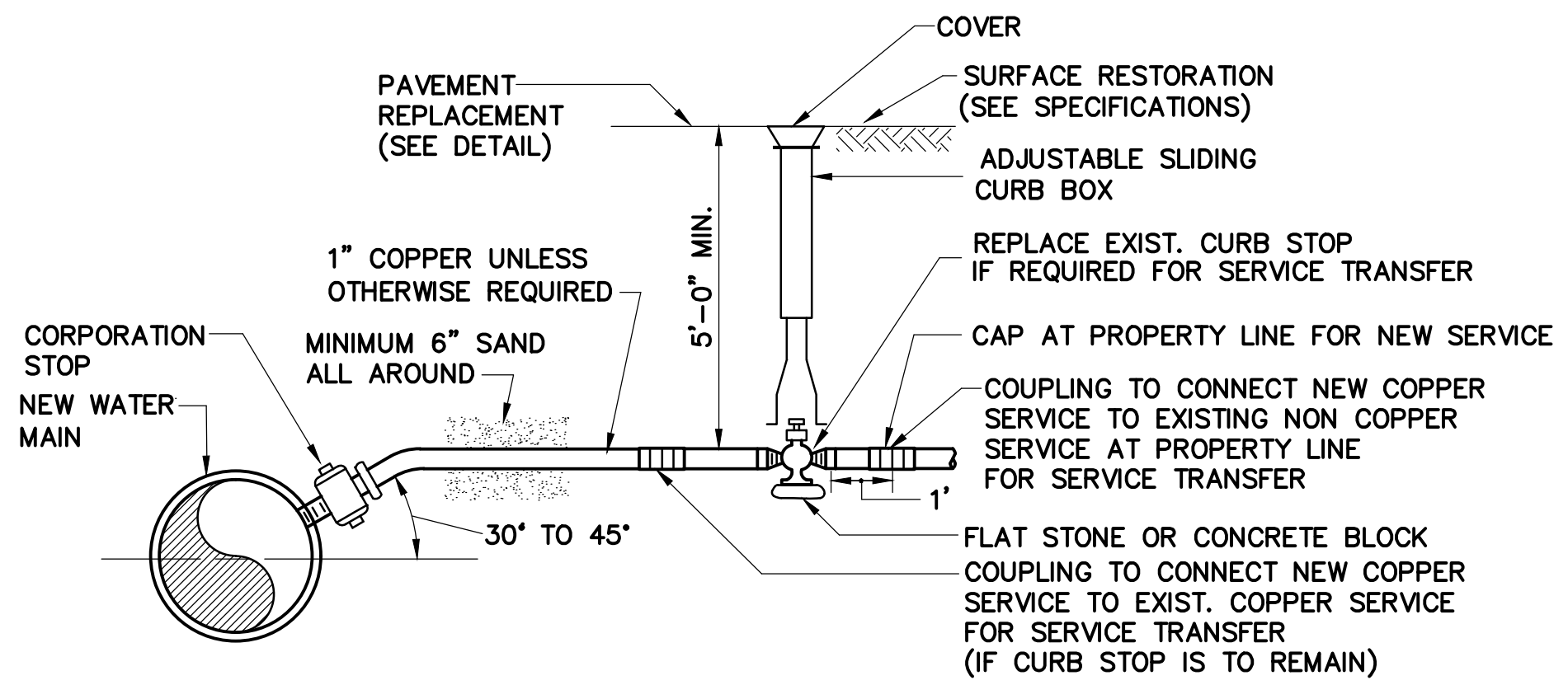
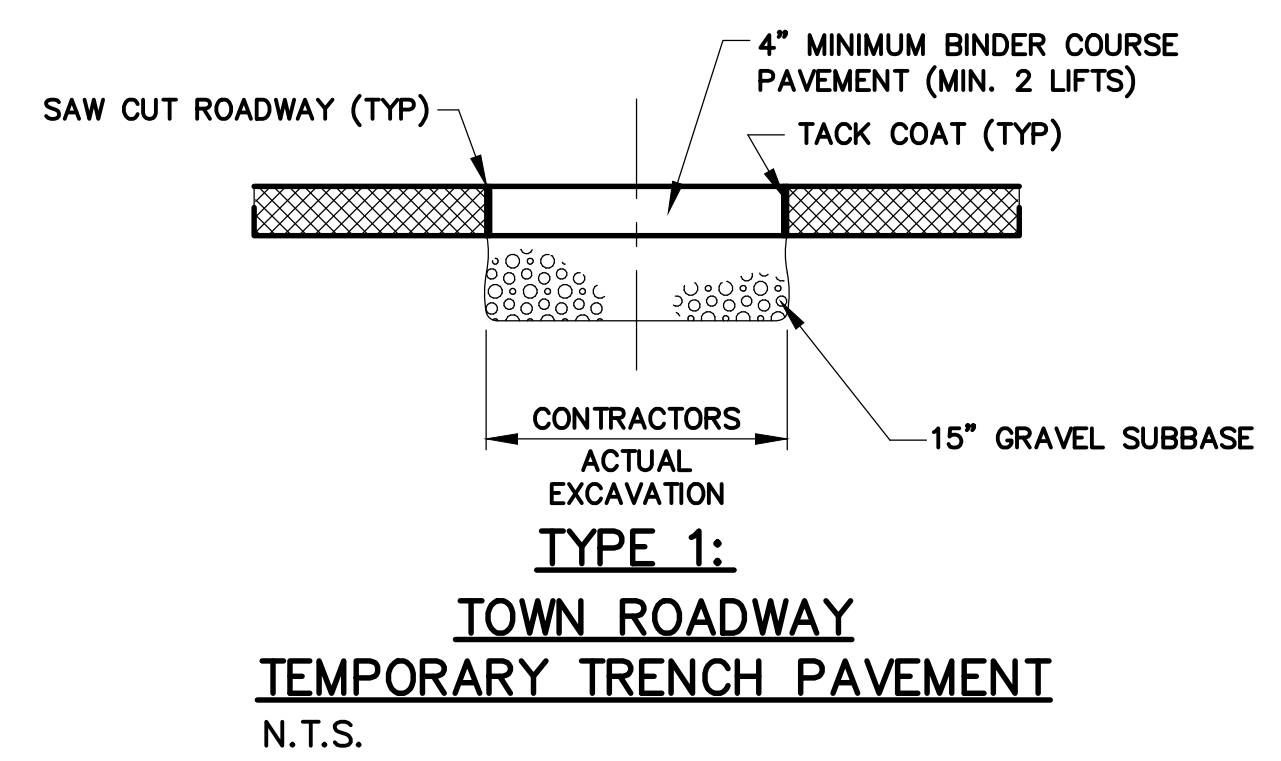
Rev. 2.0 Date: July 2020

TABLE 1

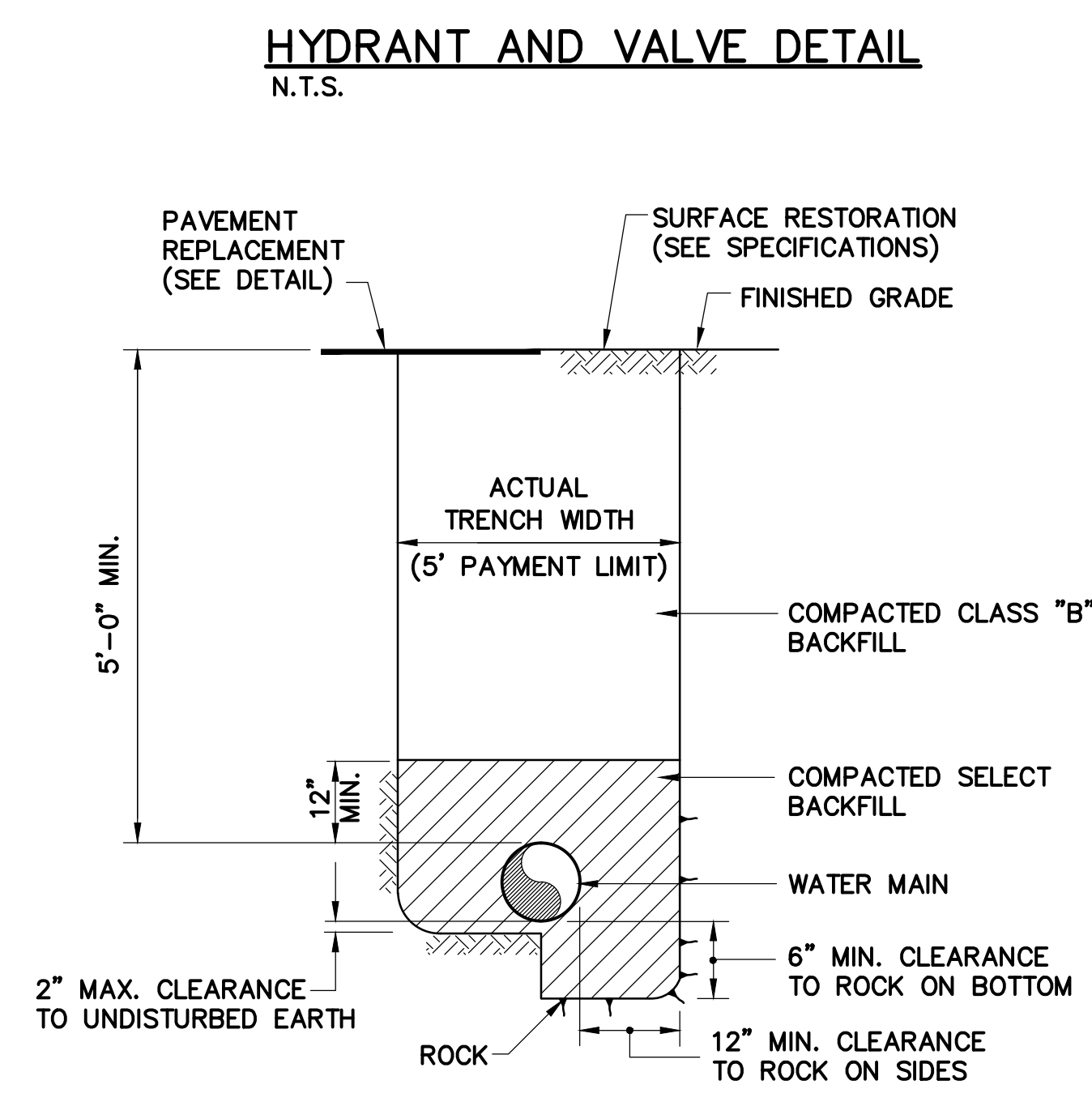
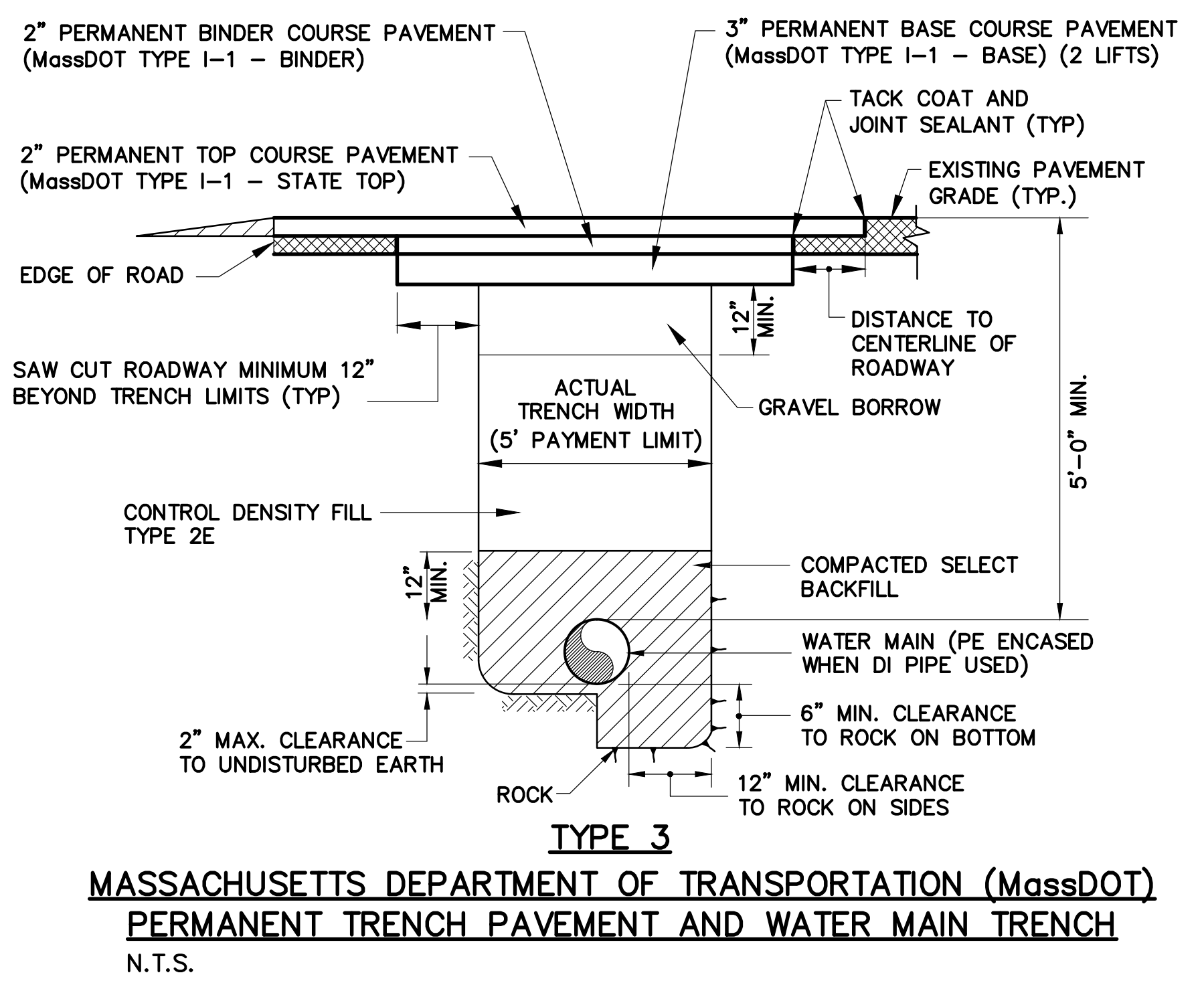
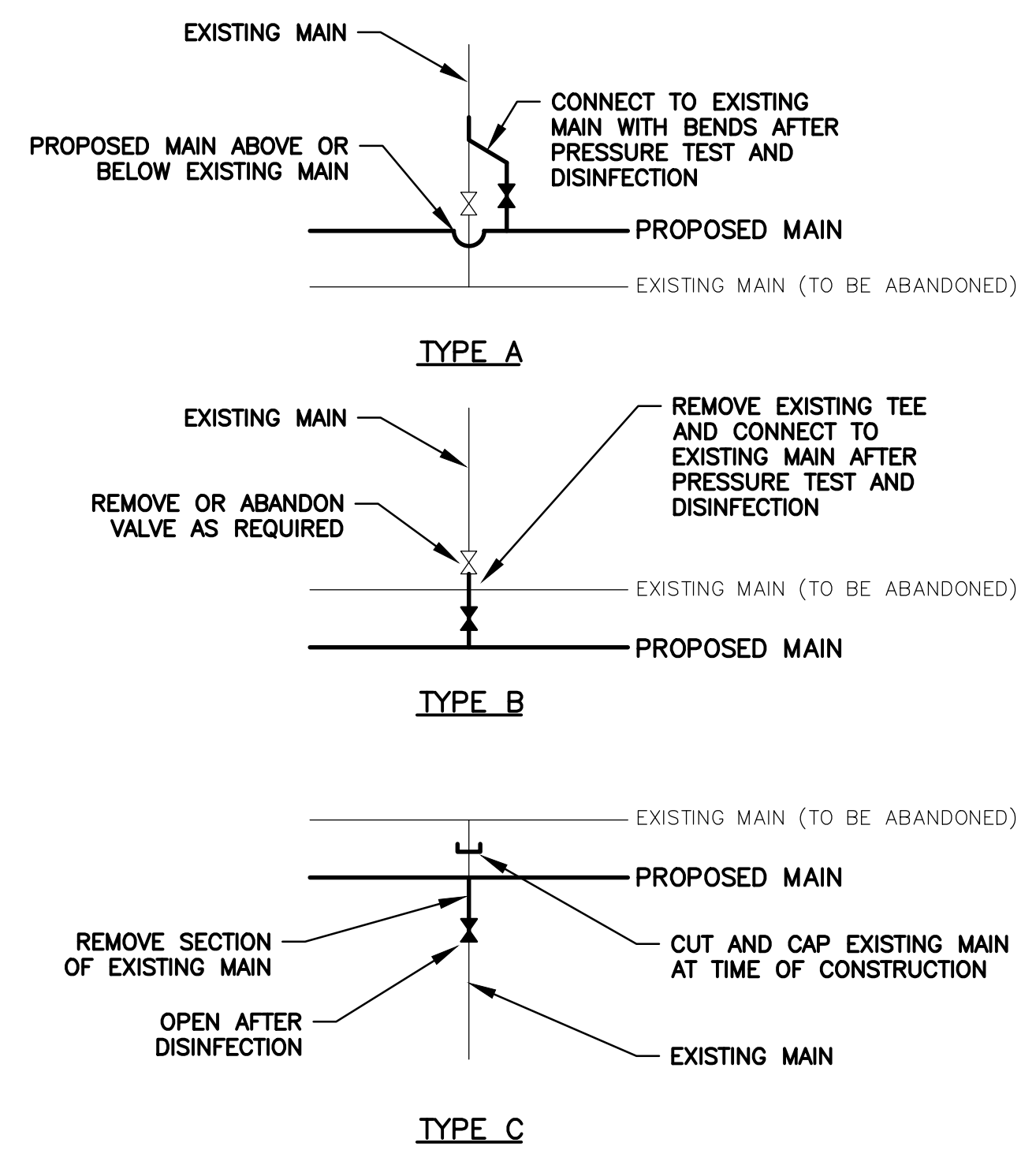
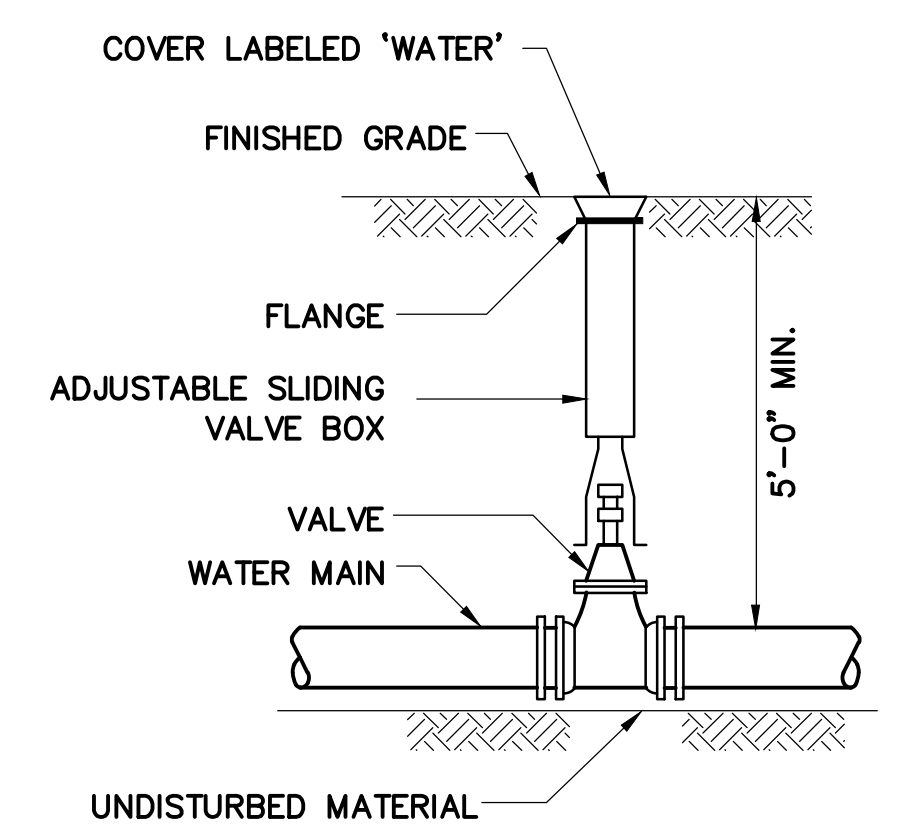
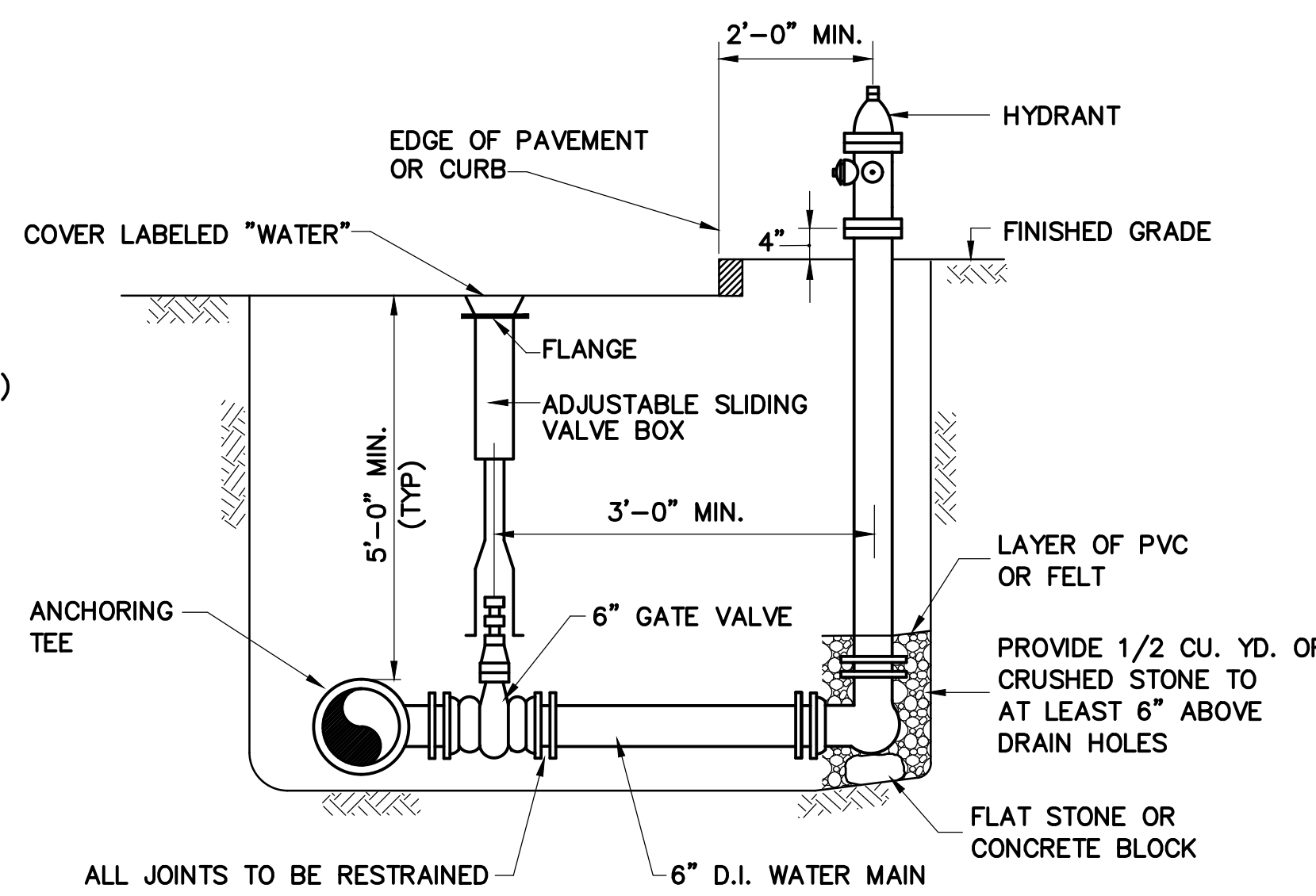
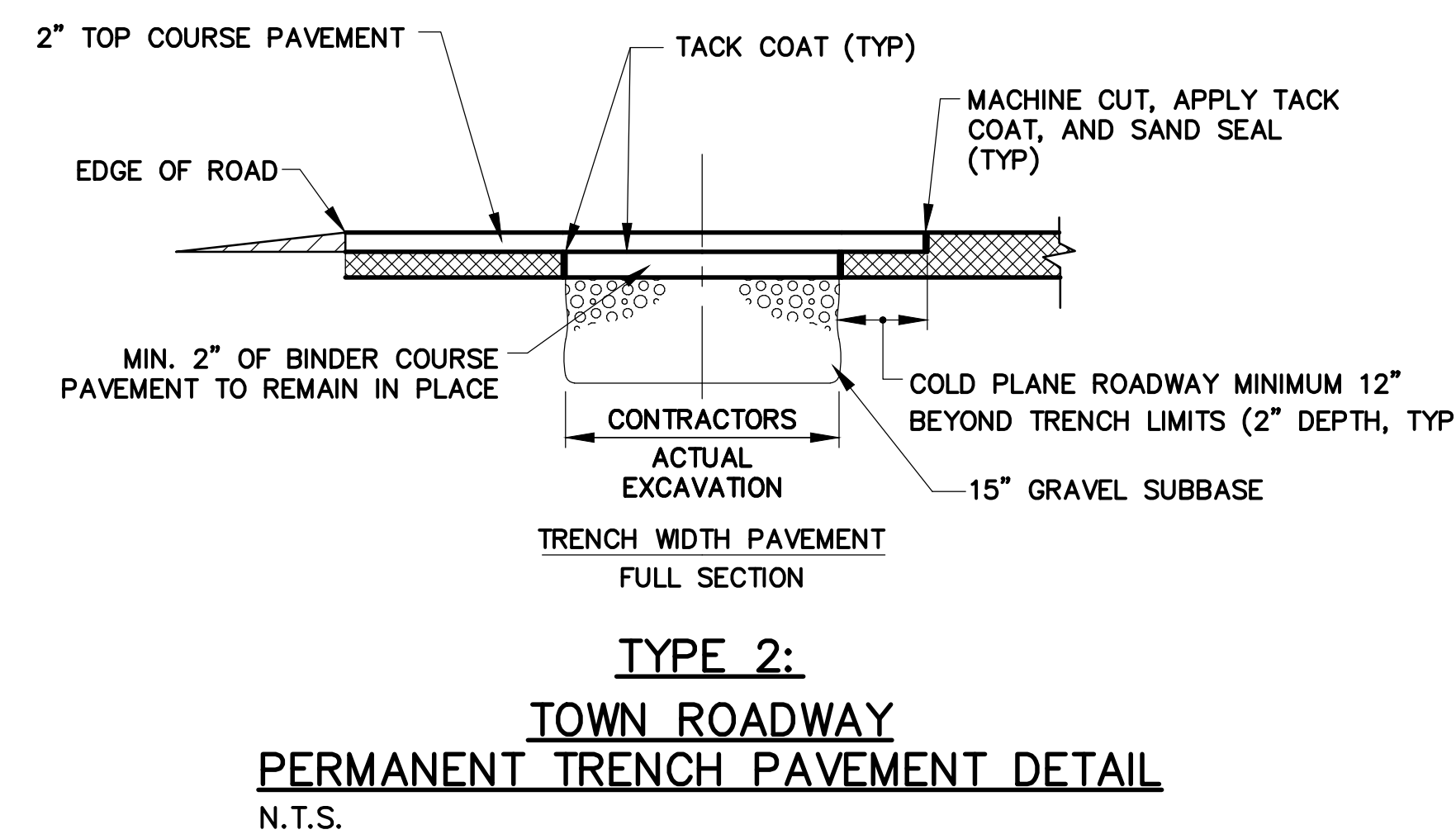
REQUIRED LENGTH OF RESTRAINED JOINTS FROM FITTINGS (FEET)

PIPE SIZE	90° BEND	45° BEND OR WYE BRANCH	22 1/2° BEND	11 1/4° BEND	PLUG, CAP OR IN-LINE VALVE	TEE (BRANCH)
6"	25 (30.5)	10.5 (12.5)	5 (6)	2.5 (3)	43 (64)	34 (51)
8"	33 (40)	13.5 (16.5)	6.5 (8)	3 (4)	55 (82)	47 (70)
10"	40 (48.5)	16.5 (20)	8 (9.5)	4 (5)	67 (100)	58 (87)
12"	47 (56.5)	19.5 (23.5)	9.5 (11.5)	4.5 (5.5)	79 (118)	70 (105)
16"	59.5 (72)	24.5 (30)	12 (14.5)	6 (7)	101 (152)	92 (139)
20"	72 (86.5)	30 (36)	14.5 (17)	7 (8.5)	123 (184)	114 (171)
24"	84 (100)	35 (41)	16.5 (20)	8 (10)	144 (216)	134 (202)
30"	100 (120)	41 (50)	20 (24)	10 (12)	174 (261)	165 (247)

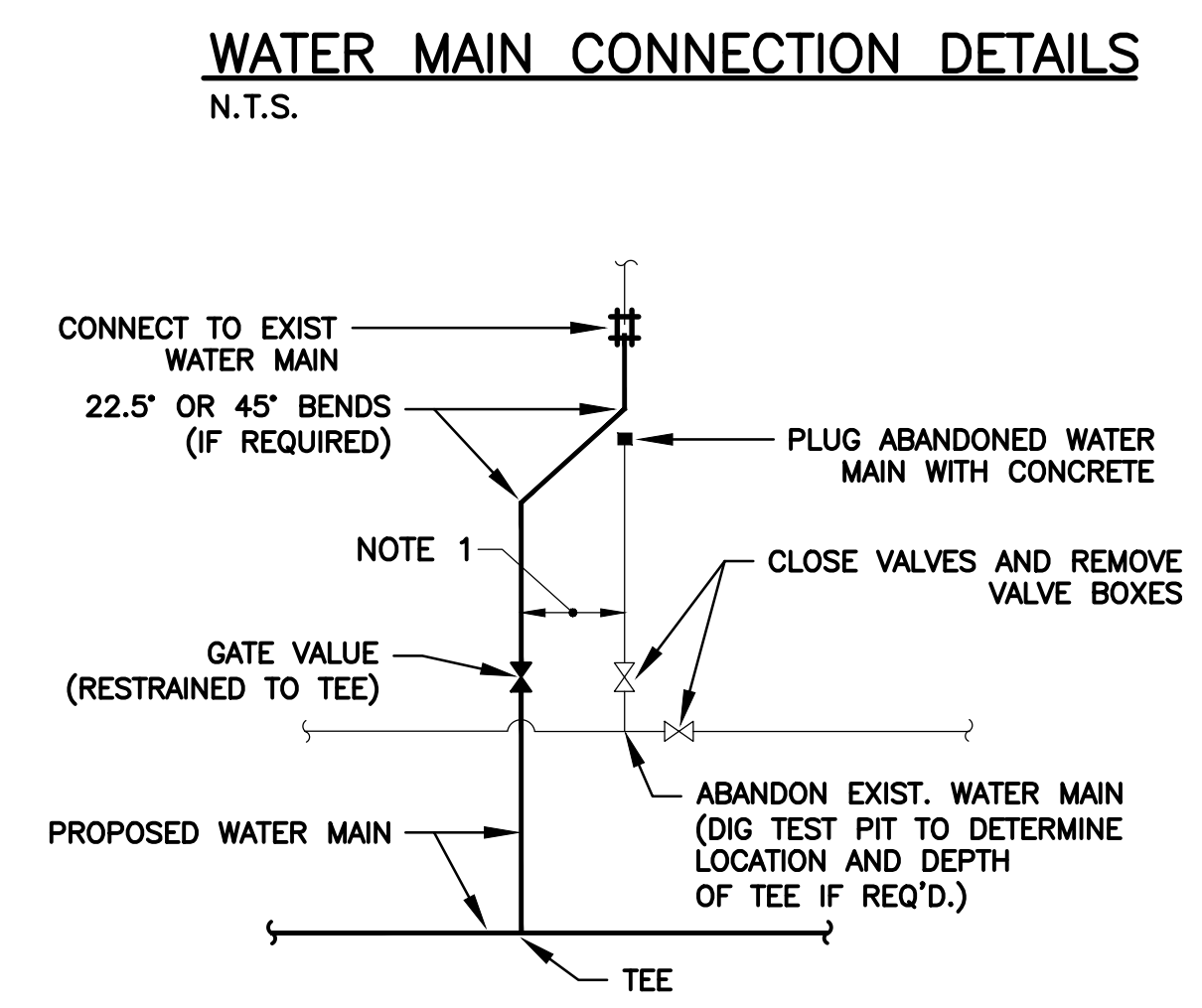
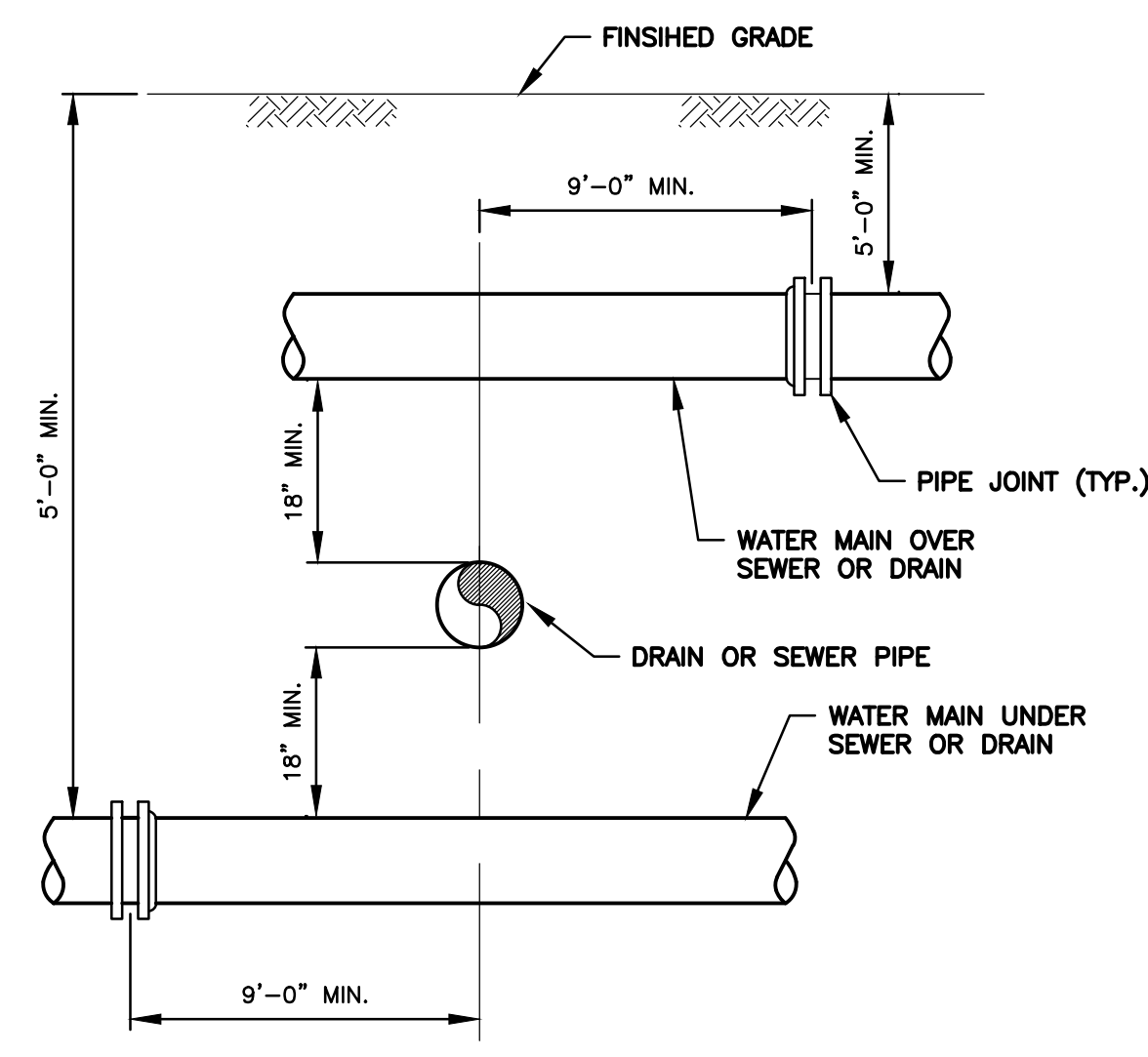
NOTES:
 1. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
 2. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE APPROPRIATE PIPE SPECIFICATION SECTION.



NOTE: PROVIDE SADDLE FOR ALL AC AND PVC MAINS AND ALL 2" OR LARGER STOPS



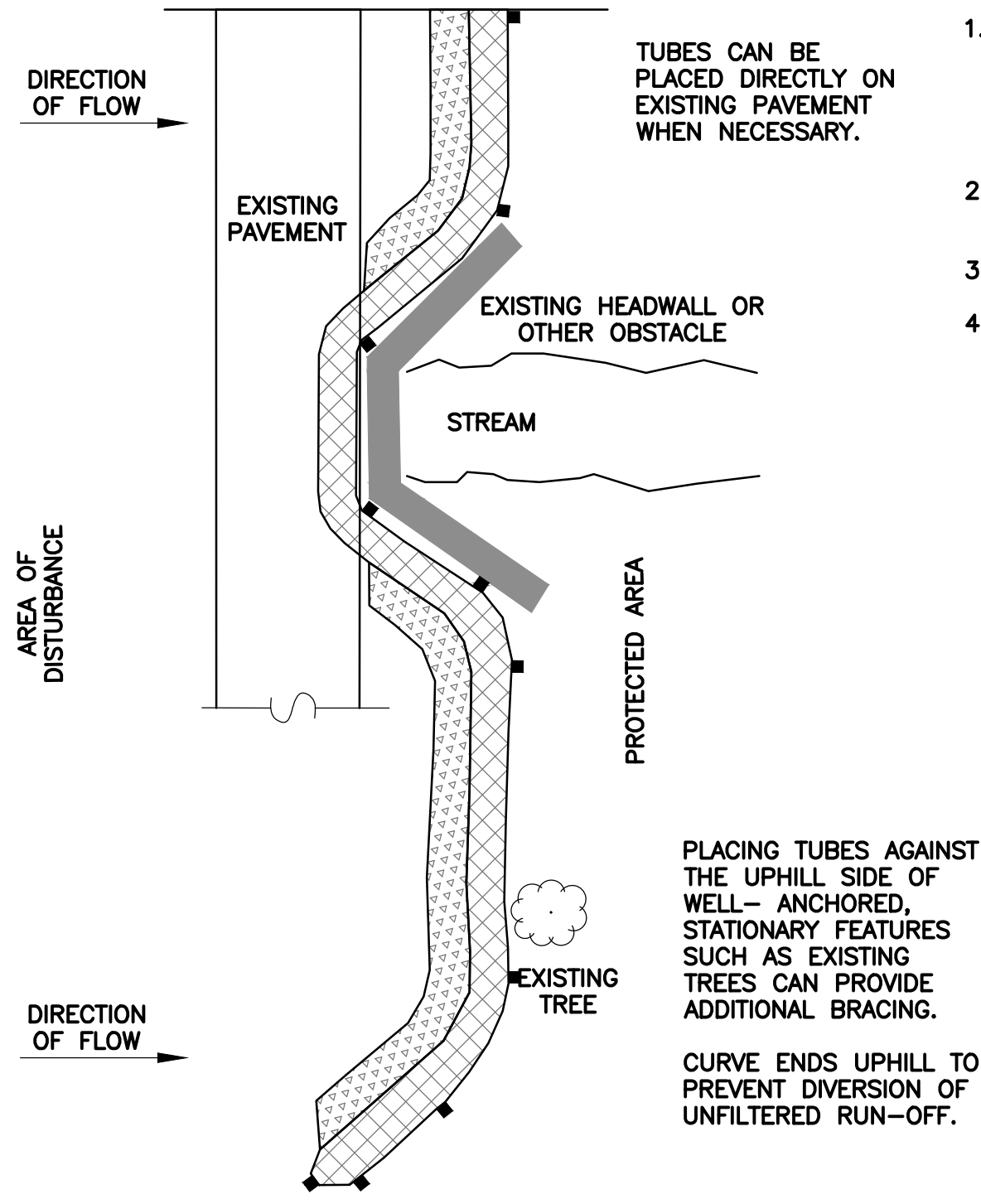
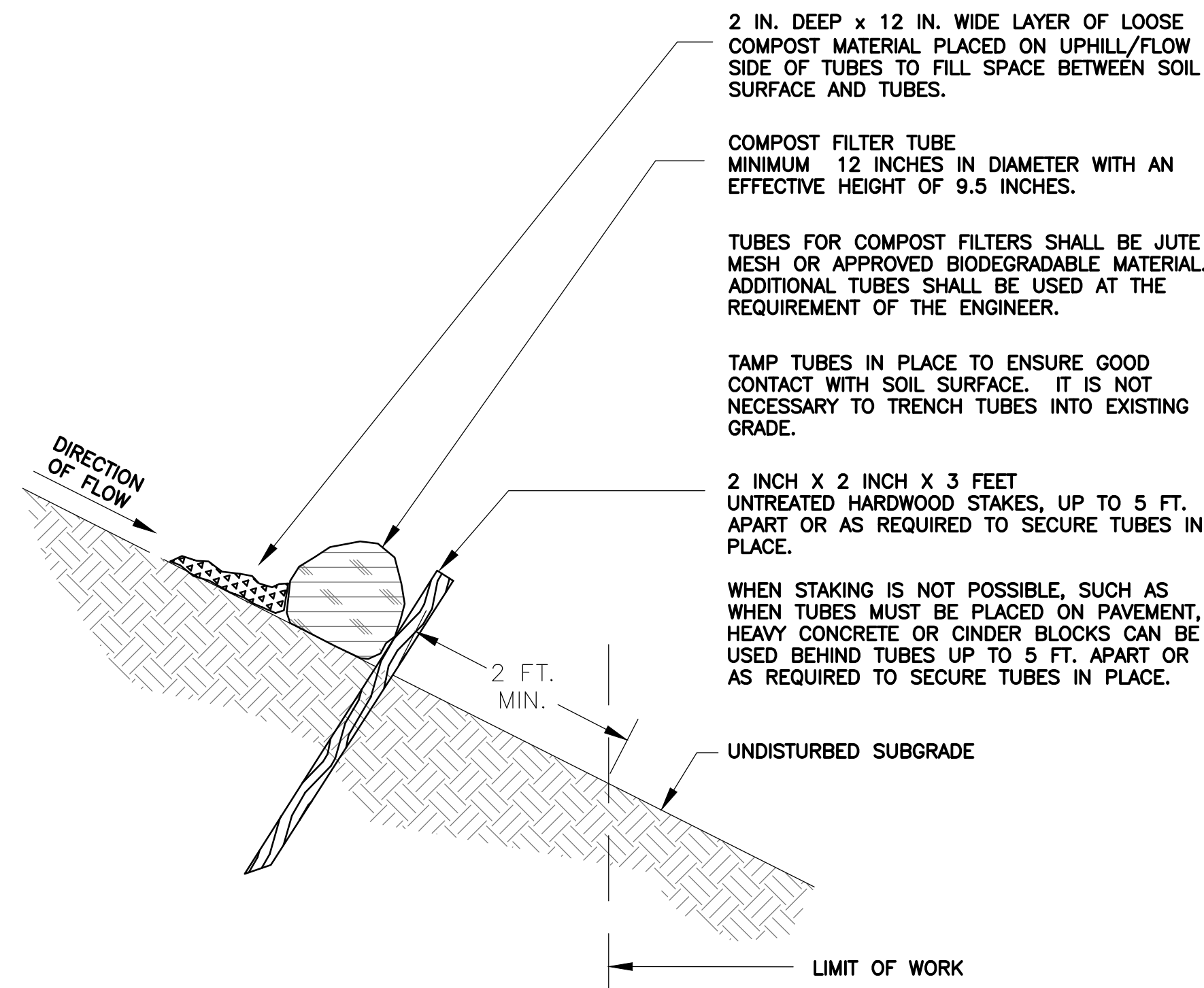
NOTE: THIS DETAIL IS FOR WORK OUTSIDE OF MassDOT S.H.L.O.



NOTE 1: MINIMUM PRACTICAL DISTANCE - GENERALLY NO MORE THAN 2 FT.

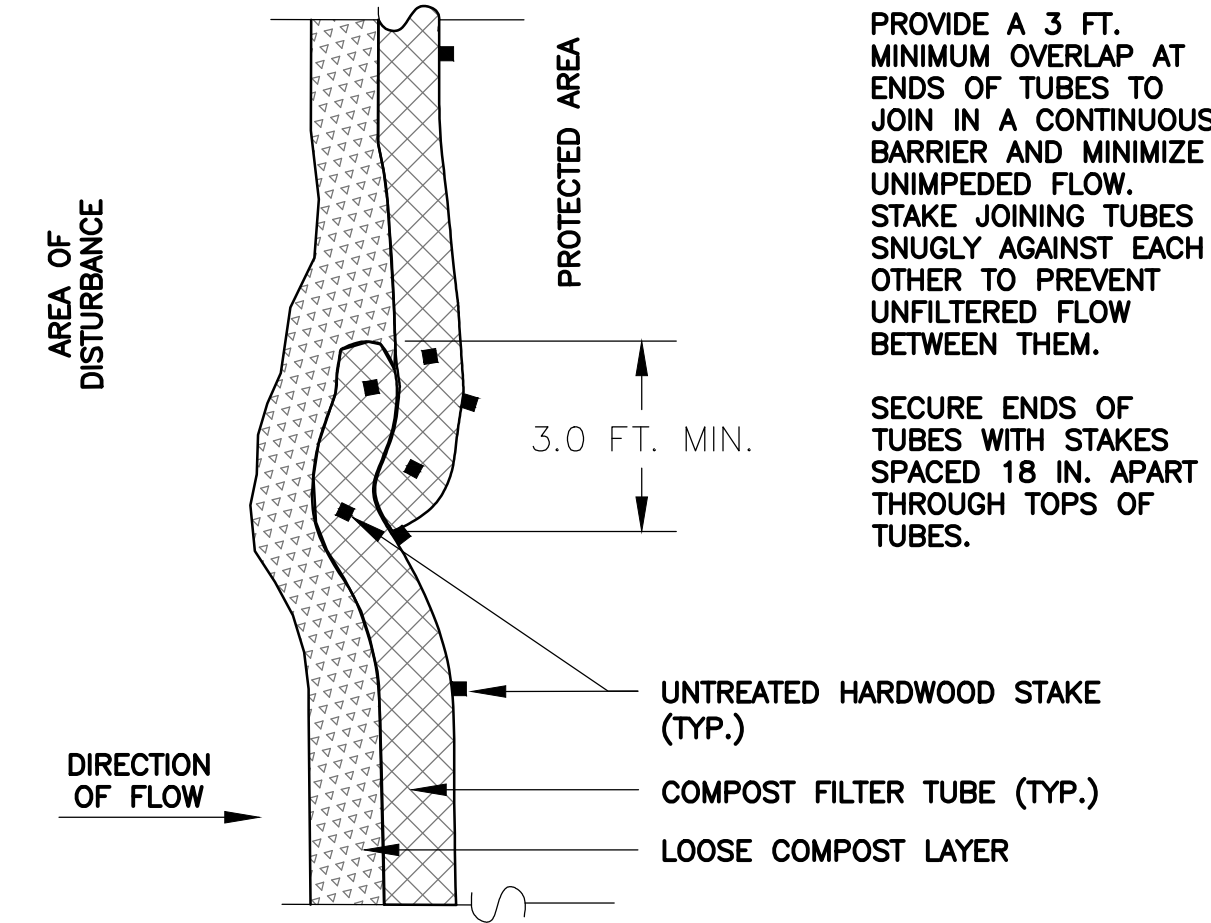
- NOTES:
- SEE SECTION 02745, PAVING FOR PAVEMENT SCHEDULE.
 - FOR ALL TRENCH PAVEMENTS, CONTRACTOR SHALL INSTALL ASPHALT EMULSION TACK COAT TO ALL SUBSURFACES AND VERTICAL SAW CUTS PRIOR TO INSTALLATION OF PERMANENT PAVEMENT.
 - PAVEMENT SHALL BE INSTALLED FLUSH WITH EXISTING GRADE BEFORE WINTER SHUTDOWN.
 - TOP LAYER OF PAVEMENT SHALL BE INSTALLED BY MECHANICAL MEANS.
 - TRENCH EDGES SHALL BE PAINTED IF ANY SURFACES ARE LEFT MORE THAN 7 DAYS WITHOUT TOP COURSE PAVEMENT.

PAVEMENT REPLACEMENT DETAILS
 N.T.S.



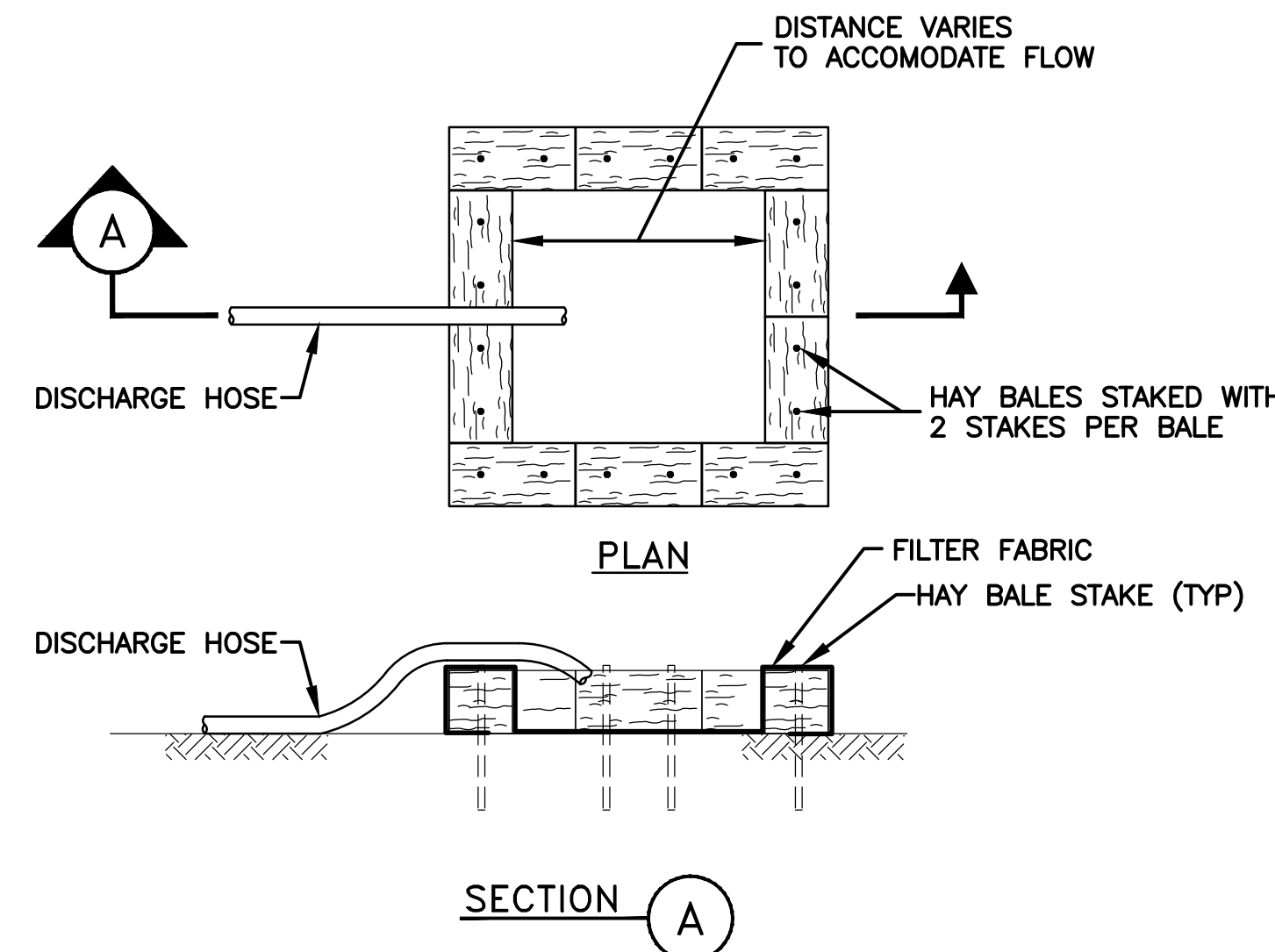
GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSIING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

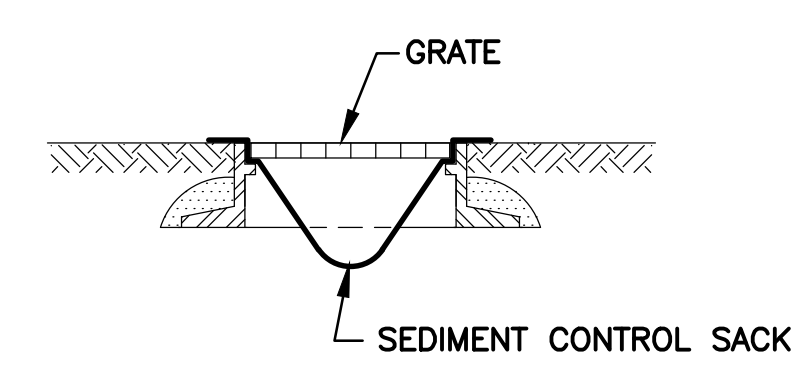


SINGLE COMPOST FILTER TUBE DETAIL
NOT TO SCALE

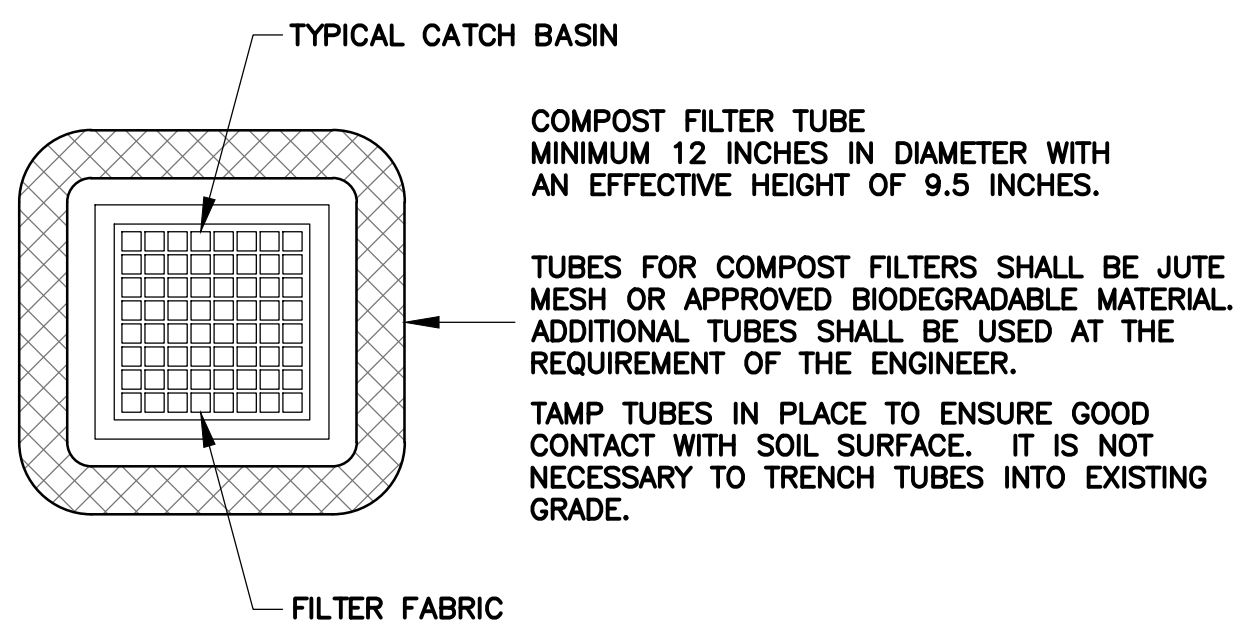
PLAN VIEW - JOIN DETAIL



DEWATERING DISCHARGE DISPOSAL DETAIL
N.T.S.



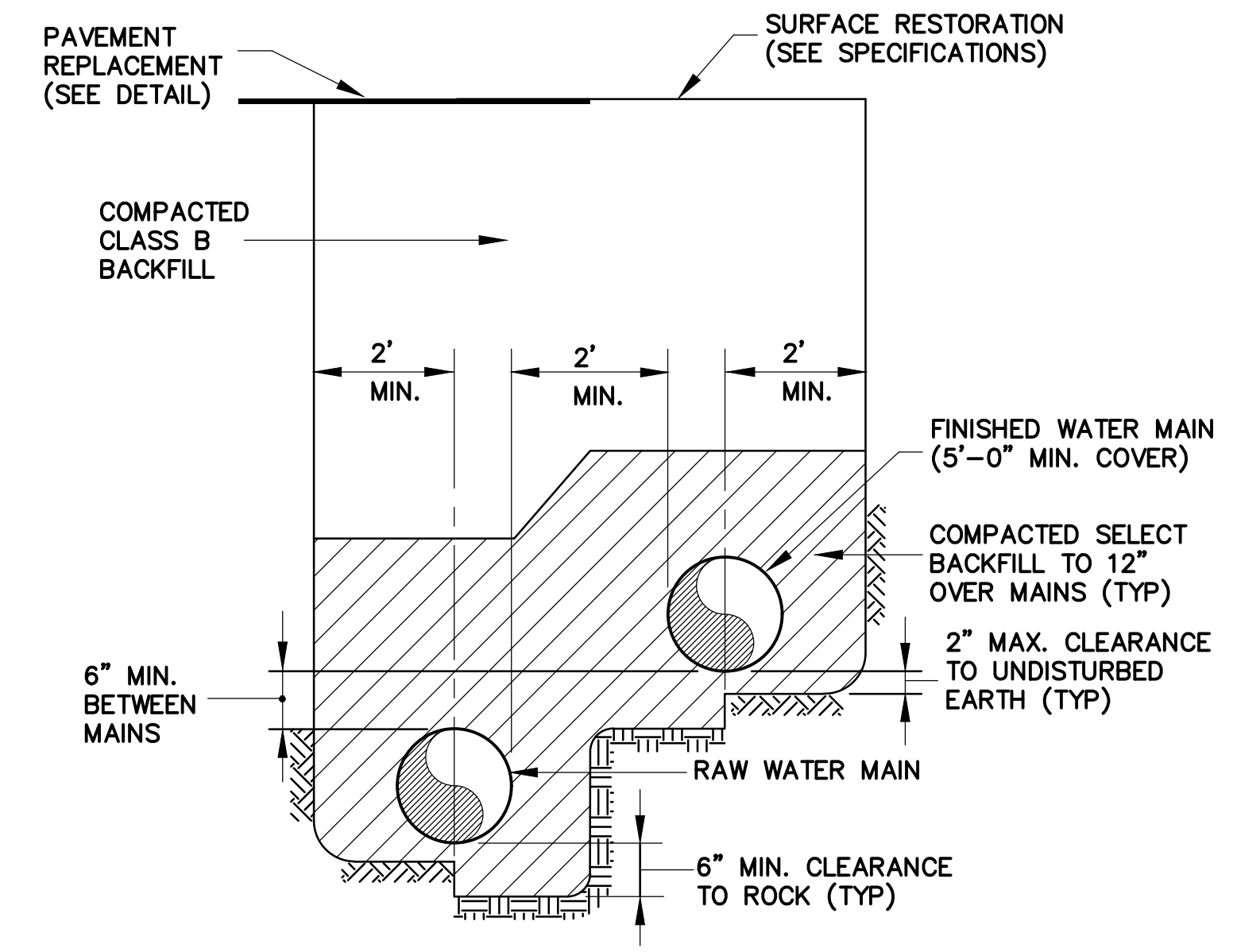
CATCH BASIN PROTECTION DETAIL
N.T.S.



NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSIING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.
5. WHEN STAKING IS NOT POSSIBLE, SUCH AS WHEN TUBES MUST BE PLACED ON PAVEMENT, HEAVY CONCRETE OR CINDER BLOCKS CAN BE USED BEHIND TUBES UP TO 5 FT. APART OR AS REQUIRED TO SECURE TUBES IN PLACE.
6. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.
7. PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM. SECURE ENDS OF TUBES WITH STAKES SPACED 18 IN. APART THROUGH TOPS OF TUBES.

CATCH BASIN PROTECTION DETAIL
N.T.S.

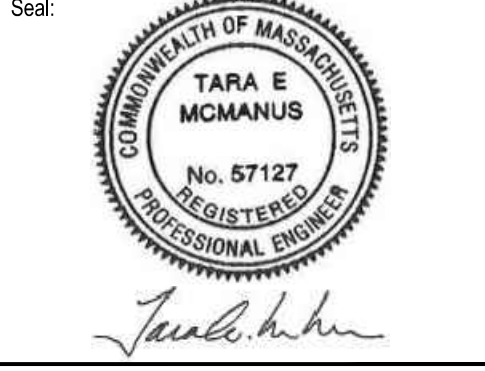


DUAL WATER MAIN TRENCH DETAIL
N.T.S.

Consultants:

Revisions:

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