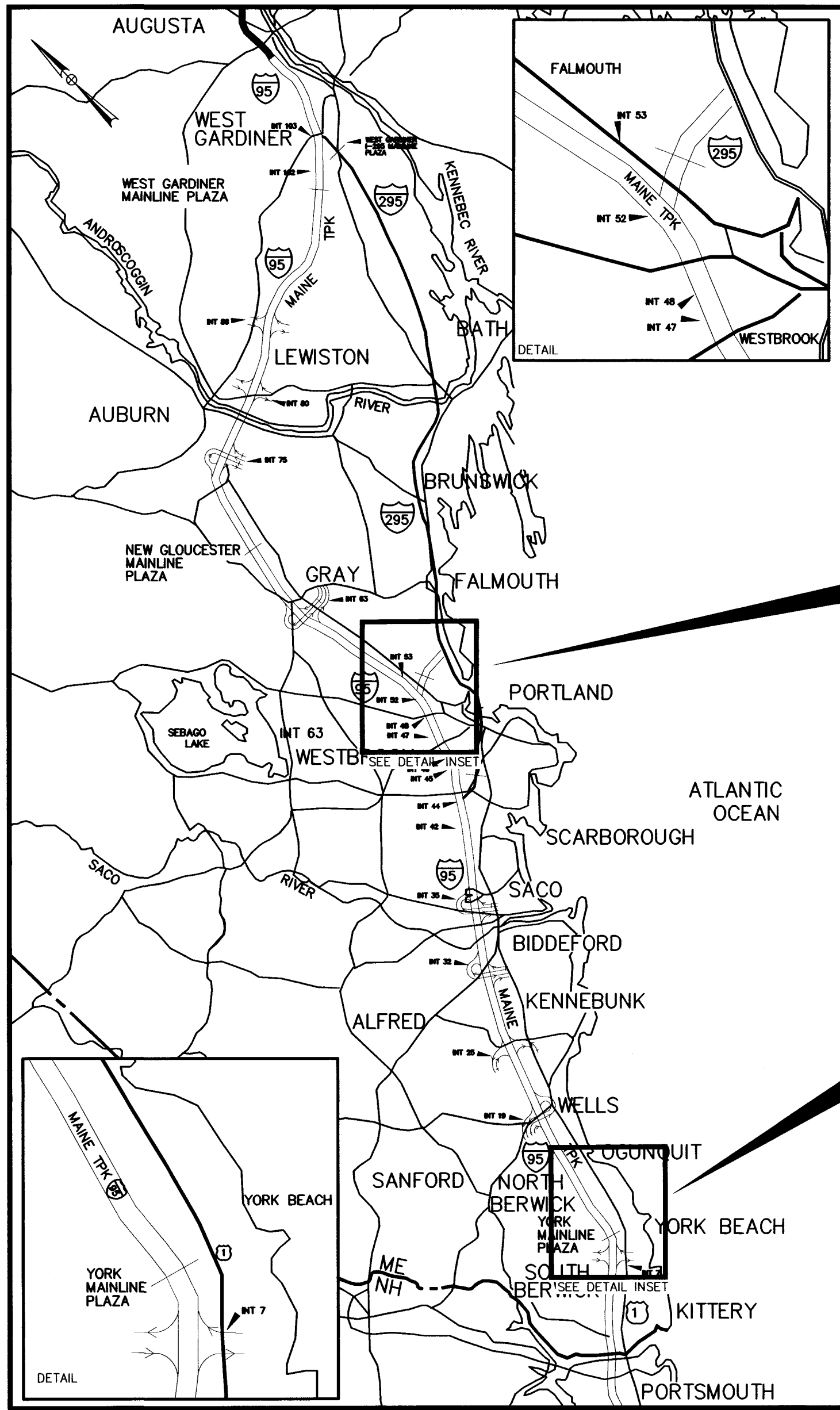




THE GOLD STAR  
MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY



LOCATION MAP

CONTRACT 2024.16  
PORTLAND RIVERSIDE AREA  
DRAINAGE WORK

CONTRACT 2024.16  
YORK AREA  
DRAINAGE WORK

DANIEL E. WATHEN, CHAIR  
MICHAEL J. CIANCHETTE, MEMBER  
JANE L. LINCOLN, MEMBER  
ANDREW McLEAN, MEMBER  
THOMAS J. ZUKE, MEMBER  
BRUCE A. VAN NOTE, EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

## CONTRACT 2024.16 SLOPE AND DRAINAGE REPAIRS MM 11.4 to 51.9

### INDEX OF SHEETS

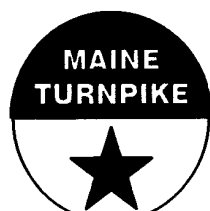
SHEET NO.	SHEET NO.	DESCRIPTION
1		TITLE SHEET
2	C-1	ESTIMATED QUANTITIES AND GENERAL NOTES
3	C-2	DRAINAGE SUMMARY
4	P-1	ONE LINE DIAGRAM
5	P-2	CATCH BASIN DETAILS
6	P-3	DRAINAGE DETAILS I
7	P-4	DRAINAGE DETAILS II
8	P-5	SLOPE REPAIR DETAILS
9	P-6	SITE PLAN I
10	P-7	SITE PLAN II

CONTRACT 2024.16

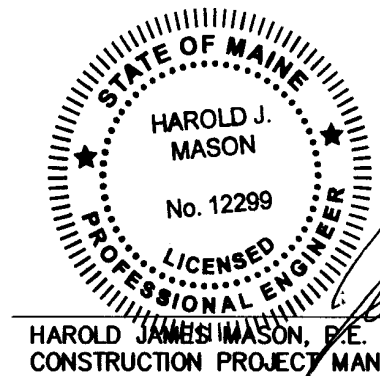
APPROVED: MAINE TURNPIKE AUTHORITY



*Peter S. Merfeld*  
PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER  
6/27/24  
DATE



*Stephen R. Martire*  
STEPHEN R. MARTIRE, P.E., - DIRECTOR OF ENGINEERING  
6/27/24  
DATE



HAROLD JAMES MASON, P.E.  
CONSTRUCTION PROJECT MANAGER

*Harold J. Mason*

6-27-24  
DATE

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY TOTAL	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
203.25	Granular Borrow	CY	160				
403.21	Hot Mix Asphalt 9.5 mm	TON	9				
603.155	12" RCP Class III	LF	48				
603.159	12" Culvert Pipe Option III	LF	60				
603.175	18" RCP Class III	LF	32				
603.195	24" RCP Class III	LF	64				
603.28	Concrete Collar	EA	10				
604.24	Catch Basin Type F4	EA	3				
610.08	Plain Rip Rap	CY	180				
613.319	Erosion Control Blanket	SY	1,900				
615.07	Loam	CY	80				
618.1401	Seeding Method Number 3	UNIT	9				
619.1202	Temporary Mulch	LS	1				
619.1401	Erosion Control Mix	CY	42				
620.58	Erosion Control Geotextile	SY	400				
629.05	Hand Labor, Straight Time	HR	375				
631.12	All Purpose Excavator (including operator)	HR	40				
631.172	Truck - Large (including operator)	HR	40				
631.36	Foreman	HR	40				
656.5	Baled Hay, in place	EA	9				
656.632	30-inch Temporary Silt Fence	LF	350				
659.1	Mobilization	LS	1				

GENERAL NOTES

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM EXISTING PLANS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
- THE CONTRACTOR SHALL NOTIFY ALL NON-MEMBERS THROUGH WWW.OKtoDIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF TALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATER COORDINATION.
- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 CALENDAR DAYS PRIOR TO SUBMITTING A UTILITY LOCATE REQUEST THROUGH DIG SAFE SO THAT THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME.
- ALL WORK AND MATERIALS REQUIRED TO REMOVE AND REPLACE CATCH BASINS SHALL BE INCLUDED IN THE 604.24 ITEM, CATCH BASIN TYPE F4.
- ALL EXCAVATION SHALL FALL UNDER HOURLY RENTAL ITEM 631.12, ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)
- MTA WILL PROVIDE ALL TRAFFIC CONTROL

DRAINAGE NOTES

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT APPROVAL OF THE RESIDENT.
- DRAINAGE WORK CONSISTS OF RCP PIPE END REPAIRS, EXCAVATION AND CATCH BASIN REPLACEMENT.

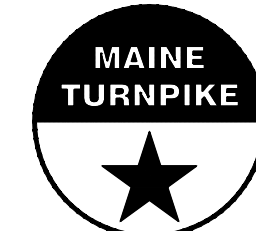
EROSION CONTROL

- ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES, ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.
- ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
- EROSION CONTROL REPAIRS CONSIST OF BASIC SLOPE EROSION AND WASHOUT REPAIRS.

Scale:

NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY  
2360 Congress Street  
Portland, ME 04102  
TEL (207) 871-7771  
FAX (207) 879-5567



**THE GOLD STAR  
MEMORIAL HIGHWAY**

ESTIMATED QUANTITIES  
AND GENERAL NOTES

No.	Revision	By	Date

	By	Date		By	Date
Designed	HJM	6/26/24	Checked	JRL	6/26/24
Drawn	BMB	6/26/24	In Charge of	SRT	6/26/24

MTA PROJECT MANAGER: Harold James Mason, P.E.

CONTRACT: 2024.16

SHEET NUMBER: C-1

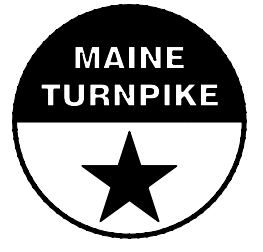
2 of 10

LOCATION	ITEM NAME	GRANULAR BORROW	12" RCP			12" Culvert Pipe Option III	18" RCP		24" RCP		CONCRETE COLLAR			TYPE F4 CATCH BASIN	PLAIN RIPRAP	EROSION CONTROL BLANKET	BALED HAY IN PLACE	30-inch TEMP. SILT FENCE
	<b>ITEM NO.</b>	<b>203.25</b>	<b>603.155</b>			<b>603.159</b>	<b>603.175</b>		<b>603.195</b>		<b>603.28</b>			<b>604.24</b>	<b>610.08</b>	<b>613.319</b>	<b>656.50</b>	<b>656.632</b>
	<b>UNIT</b>	<b>CY</b>	<b>LF</b>	<b>LF</b>	<b>LF</b>	<b>LF</b>	<b>LF</b>	<b>LF</b>	<b>LF</b>	<b>LF</b>	<b>EA</b>	<b>EA</b>	<b>EA</b>	<b>EA</b>	<b>CY</b>	<b>SY</b>	<b>EA</b>	<b>LF</b>
<b>STATION</b>			<b>SB</b>	<b>Median</b>	<b>NB</b>		<b>SB</b>	<b>NB</b>	<b>SB</b>	<b>NB</b>	<b>SB</b>	<b>Median</b>	<b>NB</b>					
2541+85		10							16	16	1		1	12	1000			50
2543+00		10			16								1	10	100			50
2549+50		30					16	16			1		1	12	100			50
2557+25		10							16	16	1		1	12	100			50
SB On Ramp		70												110	400			50
2573+43		10			16								1	12	100			50
2577+00		10	16								1			12	100			50
2587+50		3				20							1				3	
476+30		4				10						1	1				3	
518+38		3				30							1				3	
<b>TOTALS</b>		<b>160</b>	<b>48</b>			<b>60</b>	<b>32</b>		<b>64</b>		<b>10</b>			<b>3</b>	<b>180</b>	<b>1900</b>	<b>9</b>	<b>350</b>

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



By	Date	By	Date
Designed HJM	6/26/24	Checked JRL	6/26/24
Drawn BMB	6/26/24	In Charge of SRT	6/26/24

MAINE TURNPIKE AUTHORITY  
2360 Congress Street  
Portland, ME 04102  
TEL (207) 871-7771  
FAX (207) 879-5567



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Harold James Mason, P.E.

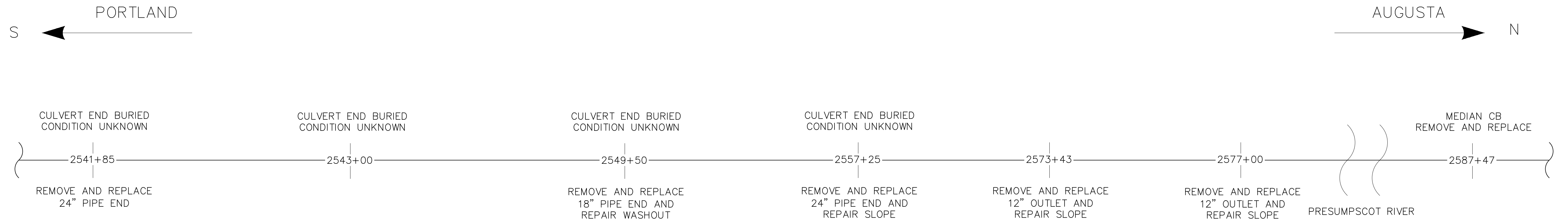
DRAINAGE SUMMARY

SHEET NUMBER: C-2

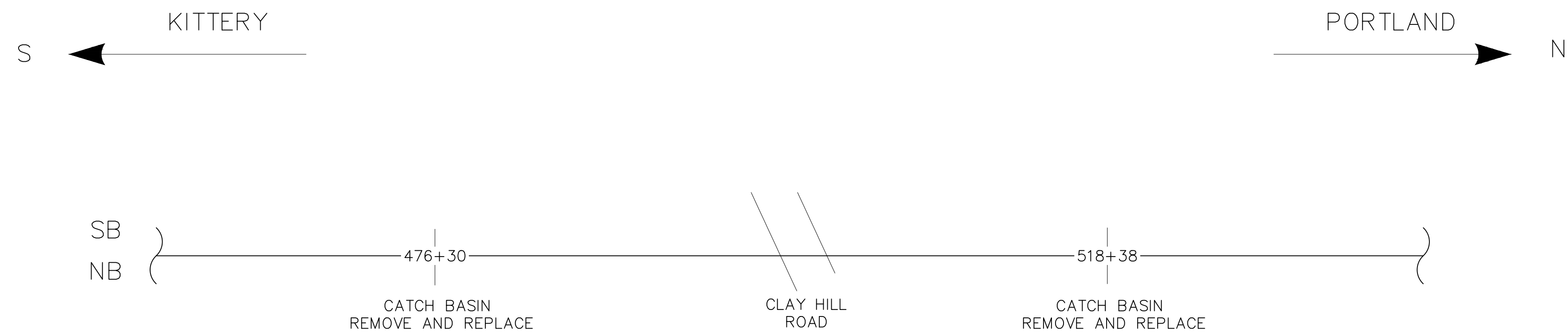
CONTRACT: 2024.16

3 of 10

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RIVERSIDE AREA ONE LINE DIAGRAM  
N.T.S



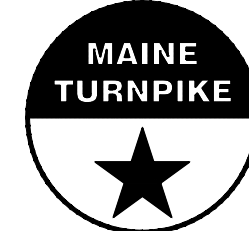
YORK AREA ONE LINE DIAGRAM  
N.T.S

NOTES:

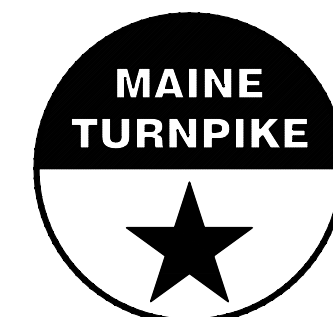
1. RIVERSIDE DIAGRAM DOES NOT SHOW SOUTHBOUND ON RAMP WASHOUT REPAIR.
2. AT LOCATIONS WITH "CONDITION UNKNOWN" CONTRACTOR SHALL LOCATE EXCAVATE AND REPLACE PIPE ENDS WITH RESIDENT'S APPROVAL.

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY  
2360 Congress Street  
Portland, ME 04102  
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THE GOLD STAR  
MEMORIAL HIGHWAY

ONE LINE DIAGRAM

No.	Revision	By	Date

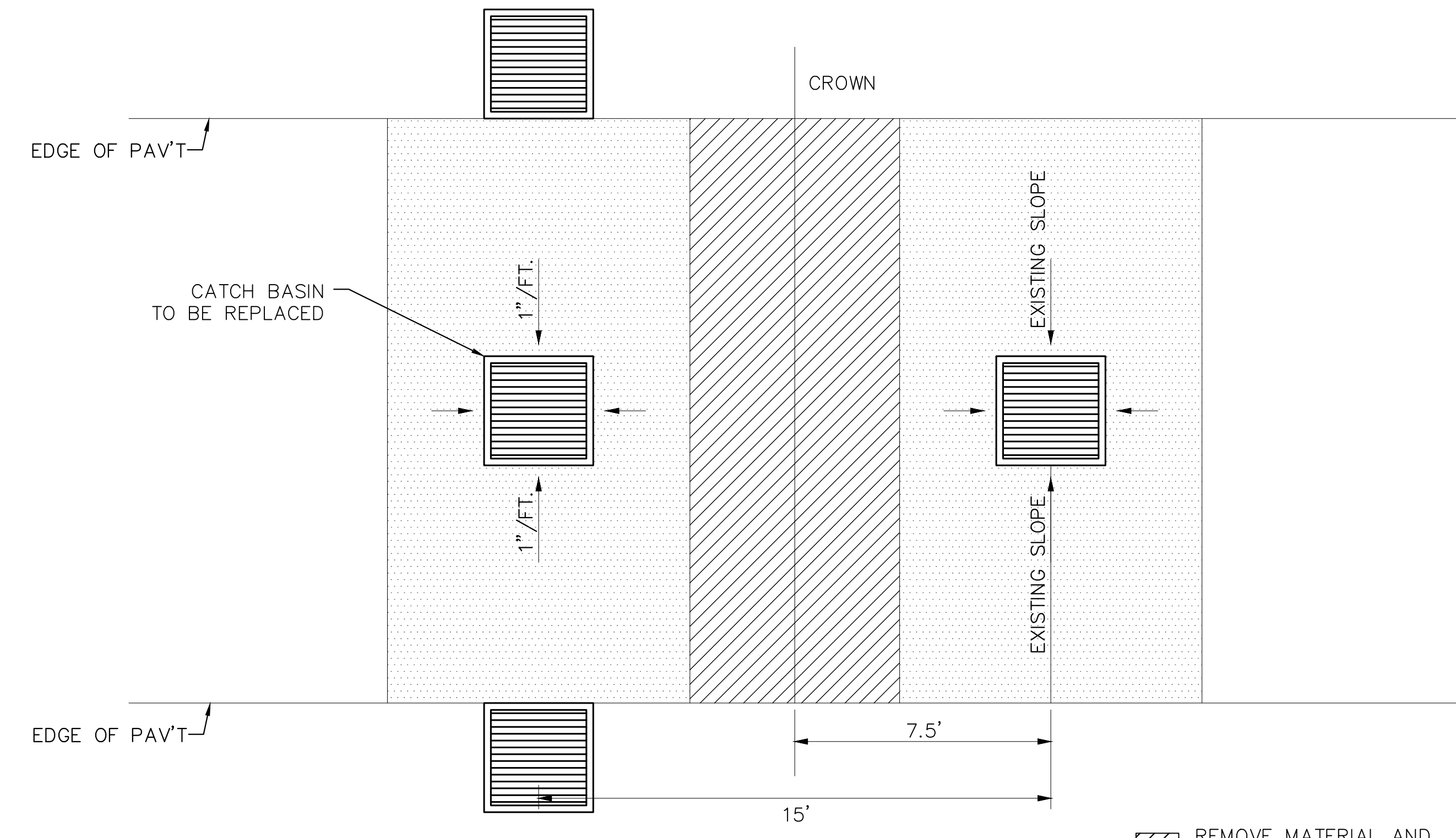
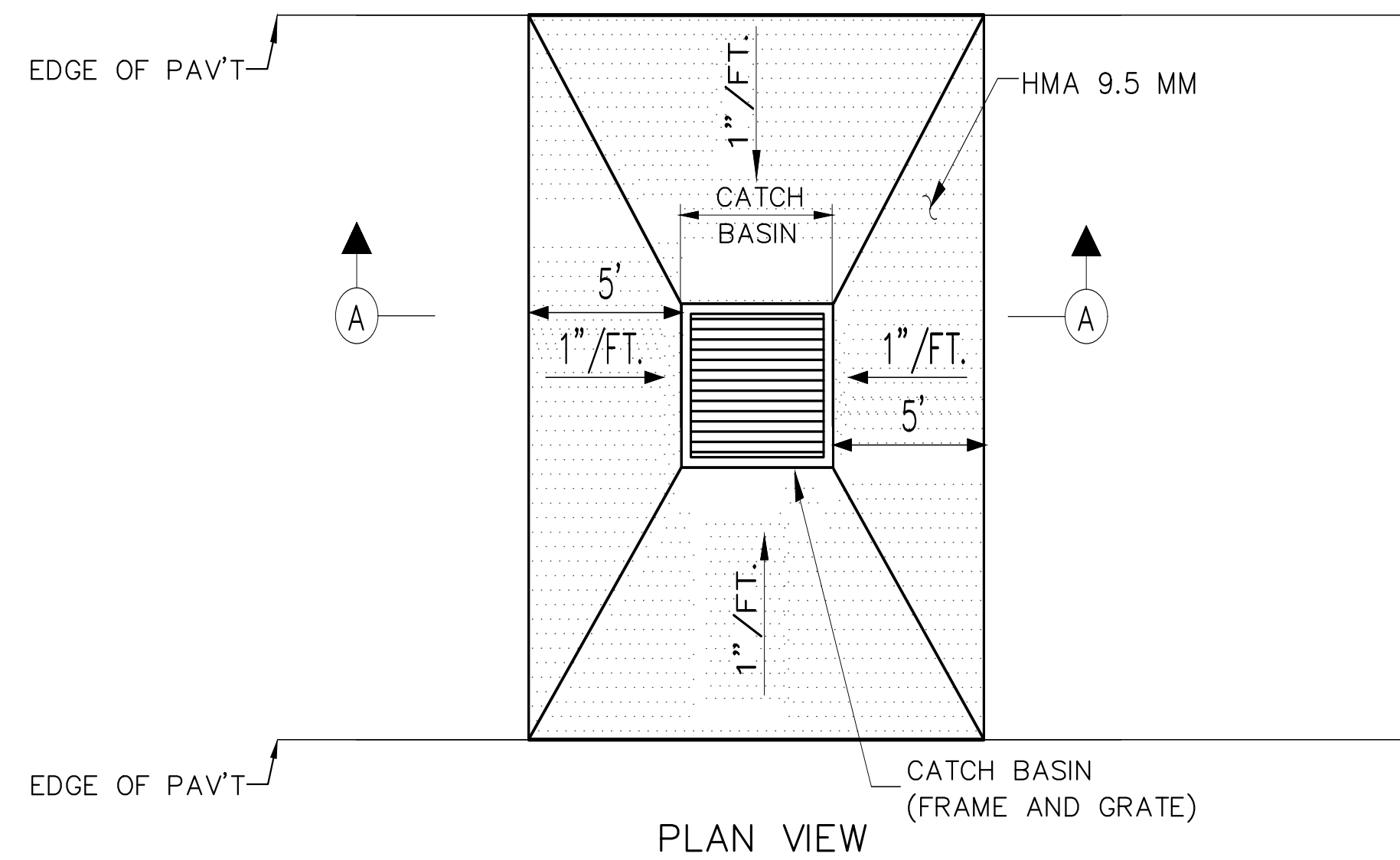
	By	Date		By	Date
Designed	HJM	6/26/24	Checked	JRL	6/26/24
Drawn	BMB	6/26/24	In Charge of	SRT	6/26/24

MTA PROJECT MANAGER: Harold James Mason, P.E.

CONTRACT: 2024.16

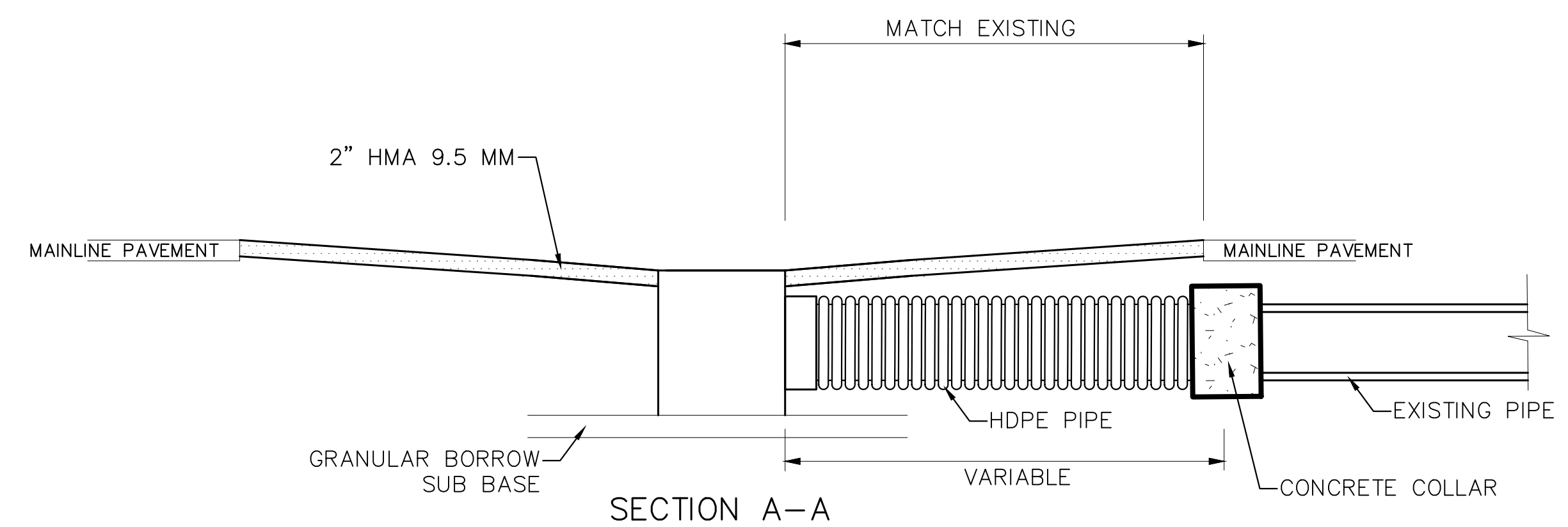
SHEET NUMBER: P-1

4 of 10

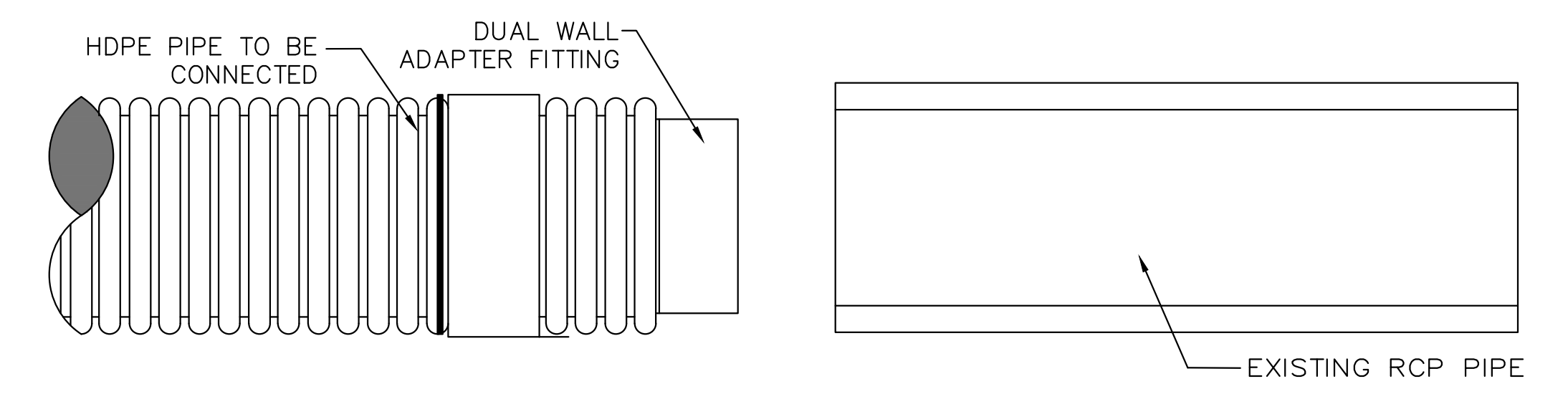


STA 518+38  
SURFACE LAYOUT  
N.T.S.

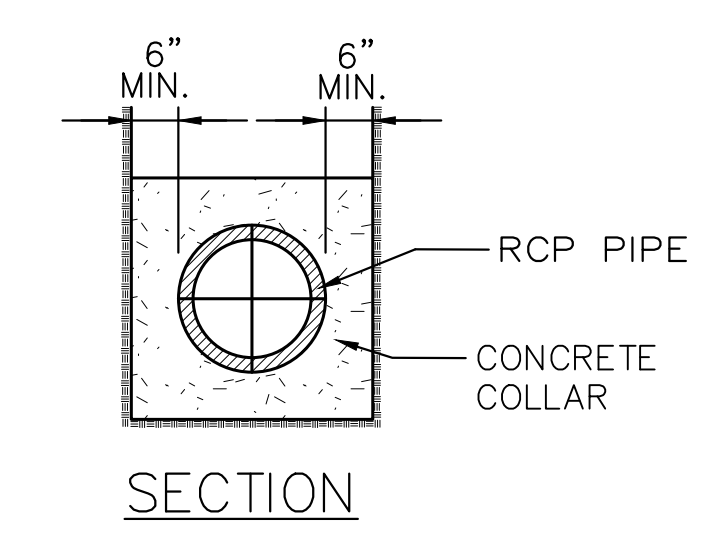
REMOVE MATERIAL AND  
PAVE WITH 9.5 mm HMA



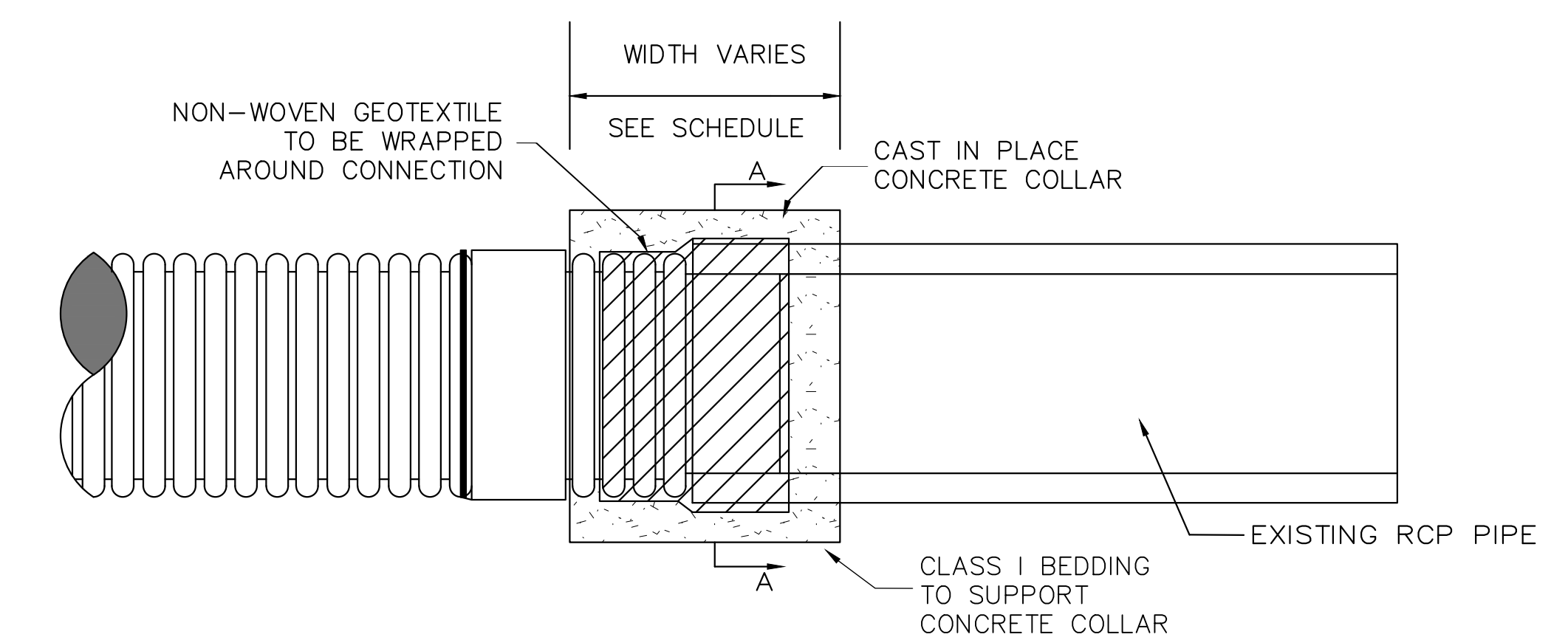
SECTION A-A  
CATCH BASIN  
REMOVE AND REPLACE  
N.T.S.



CONCRETE COLLAR WIDTH SCHEDULE	
PIPE DIA. (INCHES)	WIDTH OF CONC. (INCHES)
12	24
15	24
18	24
24	24
30	30
36	36
42	48
48	48



SECTION  
CONCRETE COLLAR  
N.T.S.



NOTES:

1. CONTRACTOR TO VERIFY AND MATCH EXISTING CATCH BASIN LAYOUT.
2. CONTRACTOR SHALL VERIFY ALL PIPE AND ADAPTOR DIMENSIONS PRIOR TO PURCHASE
3. CONTRACTOR SHALL USE CORRUGATED HDPE PIPE ONLY TO TIE INTO CATCH BASINS.
4. CORRUGATED HDPE PIPE SHALL BE PAID FOR UNDER ITEM 603.159 12" CULVERT PIPE OPTION III

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

Designed	By	Date	Checked
Drawn	By	Date	In Charge of
	HJM	6/26/24	JRL
	BMB	6/26/24	SRT

MAINE TURNPIKE AUTHORITY  
2360 Congress Street  
Portland, ME 04102  
TEL (207) 871-7771  
FAX (207) 879-5567

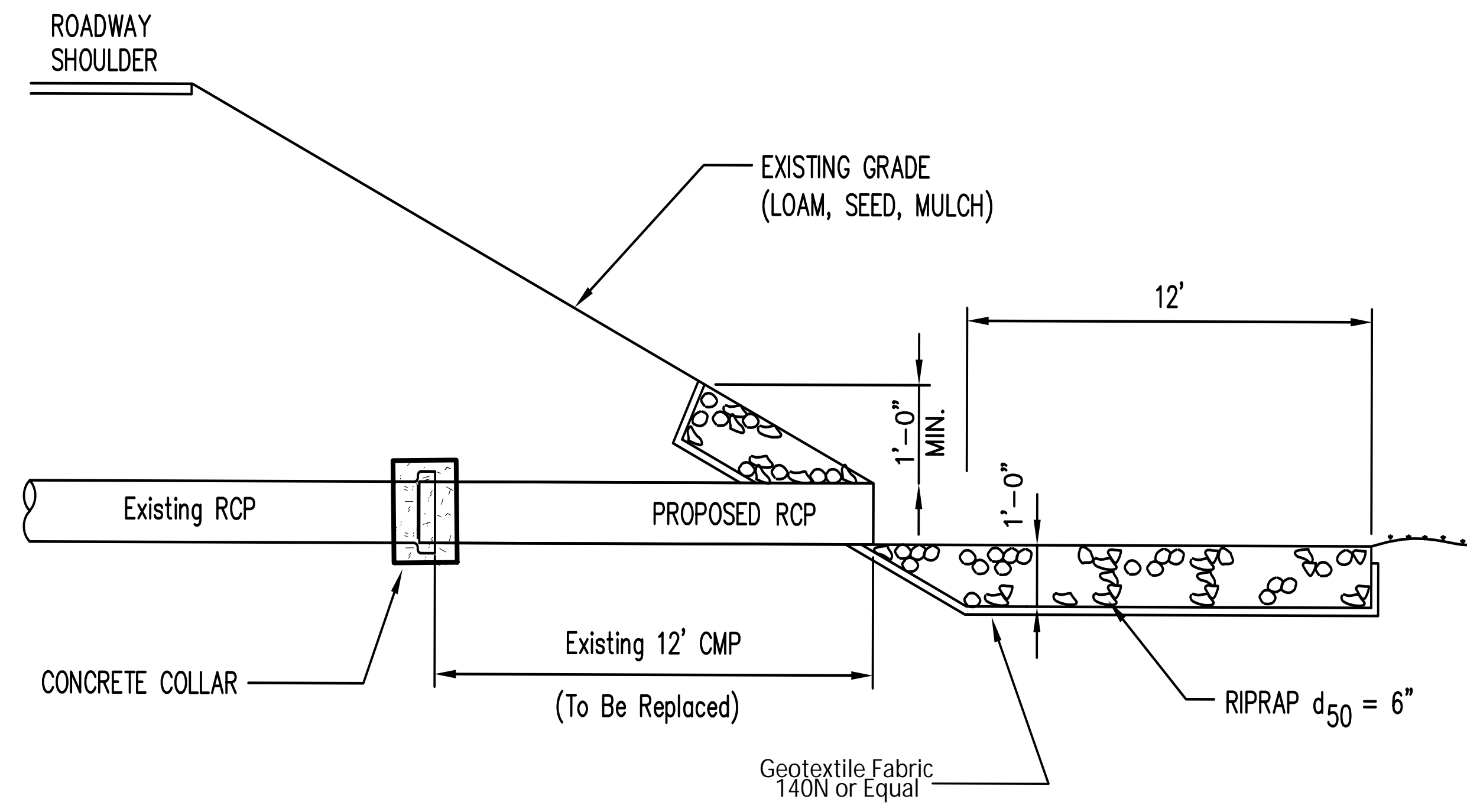
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Harold James Mason, P.E.

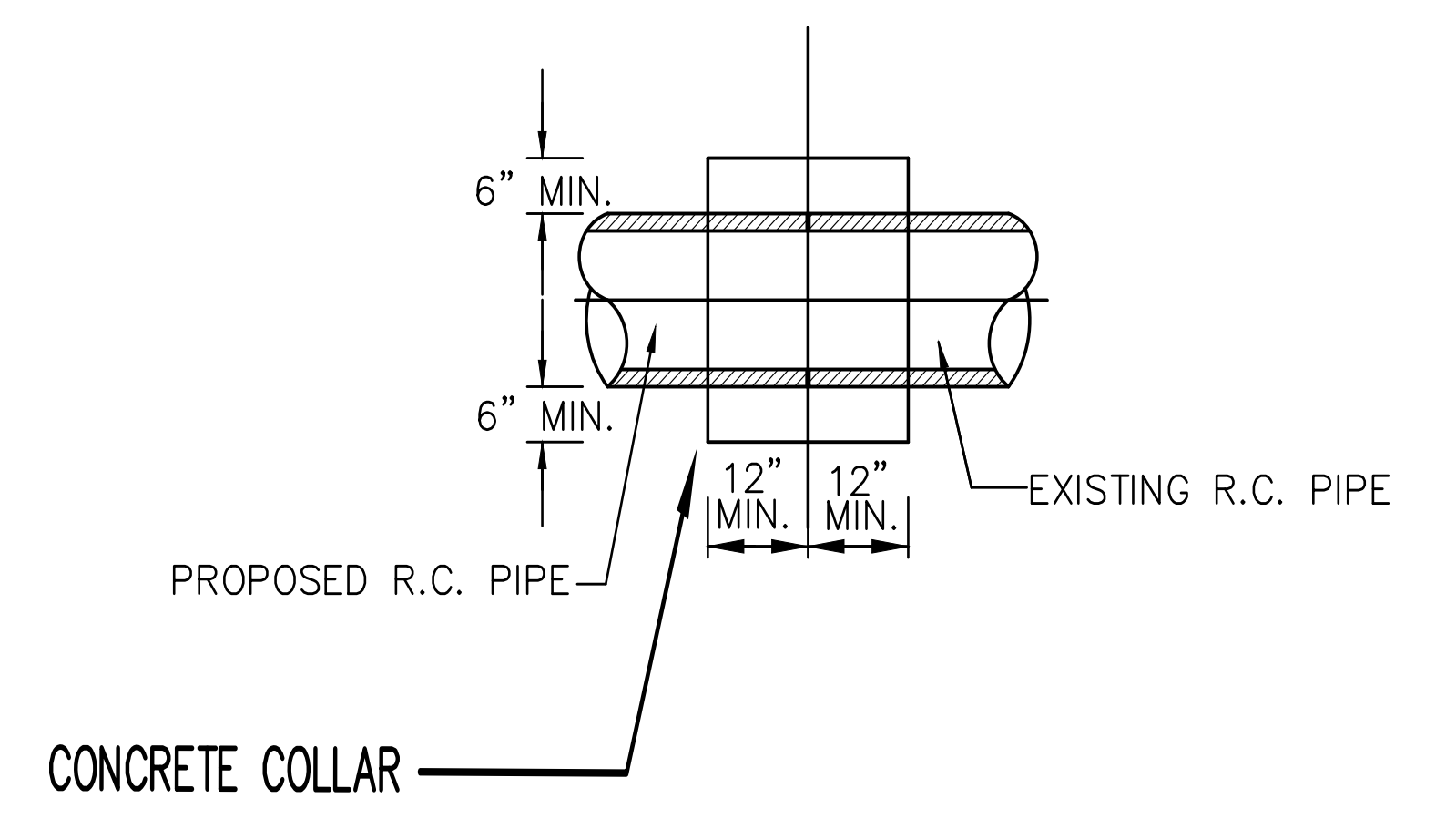
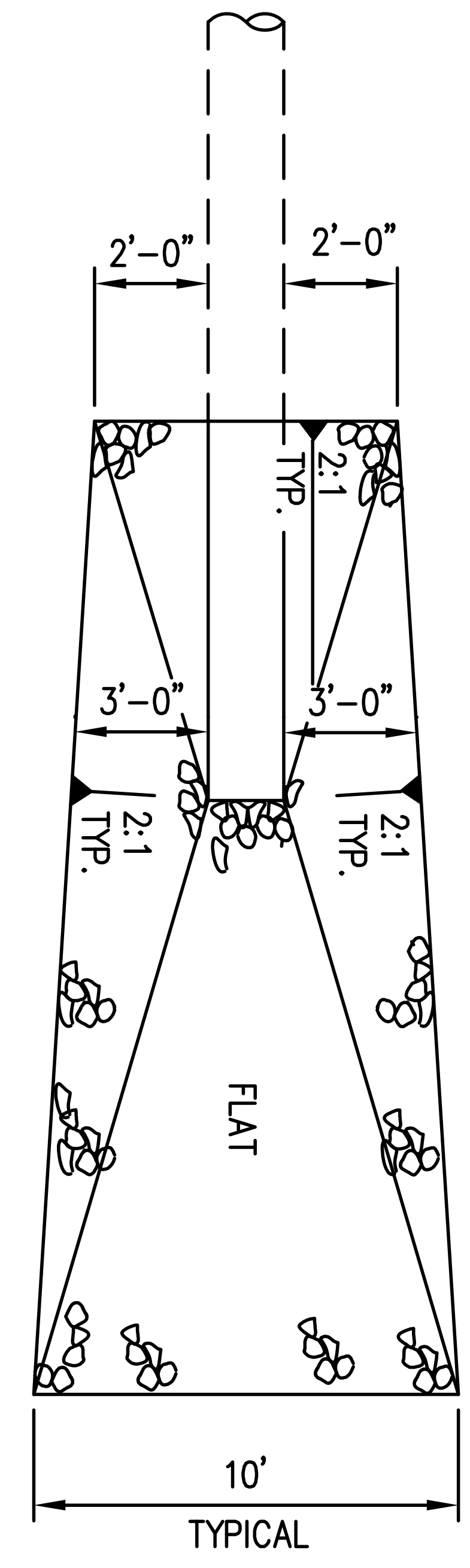
CATCH BASIN DETAILS

SHEET NUMBER: P-2  
CONTRACT: 2024.16  
5 of 10

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SECTION  
TYPICAL DETAIL  
CULVERT END REPLACEMENT & RIPRAP INLET/OUTLET  
N.T.S.



CONCRETE COLLAR WIDTH SCHEDULE	
PIPE DIA. (INCHES)	WIDTH OF CONC. (INCHES)
12	24
15	24
18	24
24	24
30	30
36	36
42	48
48	48

**NOTES:**

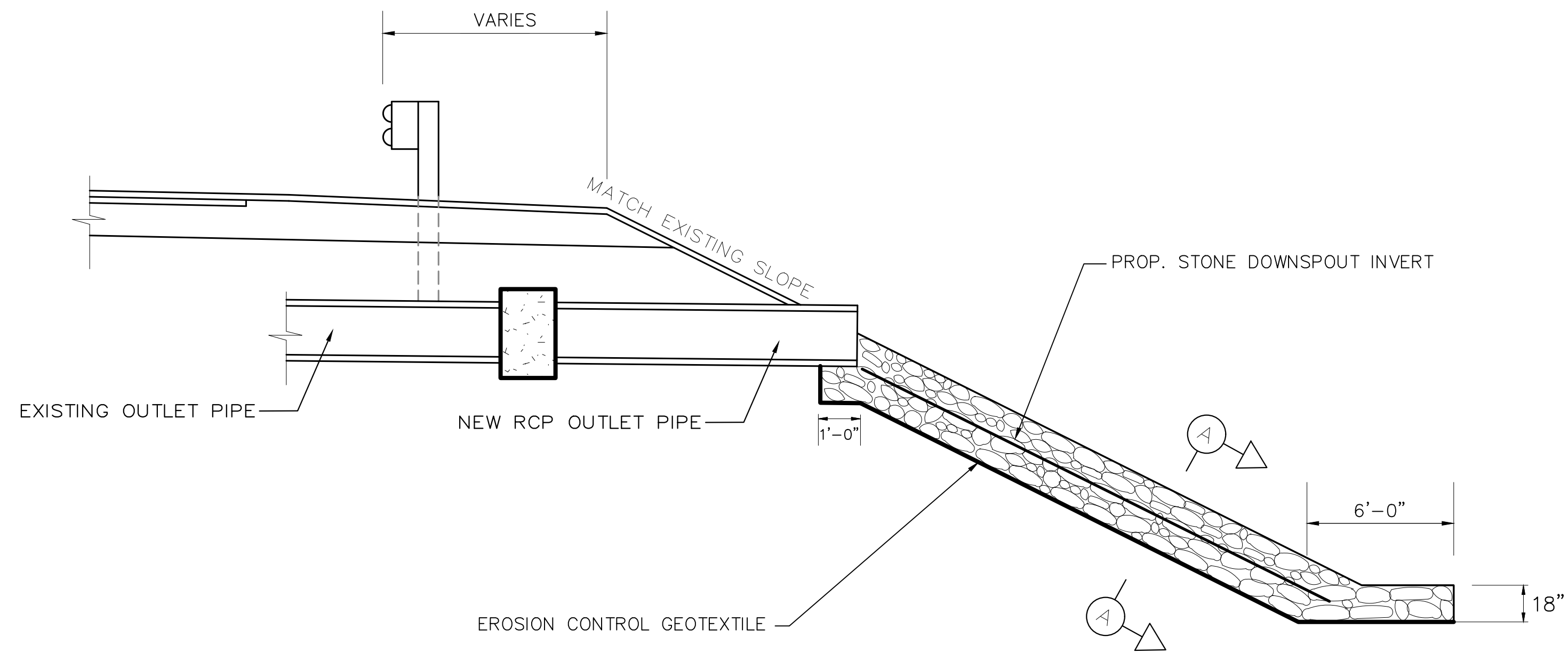
1. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.

**NOTES:**

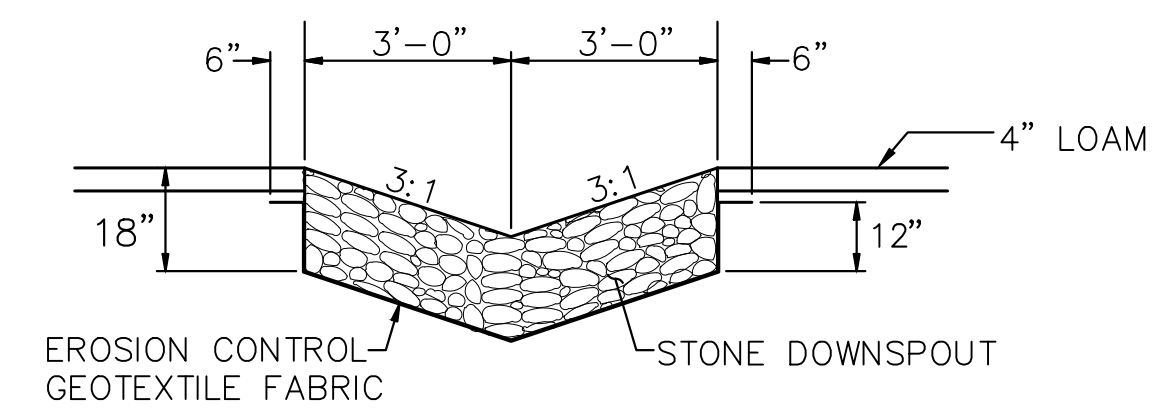
1. CONNECTION AND PIPE TO BE BACKFILLED PER ASTM D2321 (CRUSHED STONE). CRUSHED STONE WILL BE INCIDENTAL TO THE COLLAR ITEM 603.28.
2. CONCRETE SHALL BE CLASS A FIBER REINFORCED.
3. SEE CONCRETE COLLAR WIDTH SCHEDULE FOR DIMENSIONS.
4. CONCRETE COLLAR SHALL BE FORMED IN PLACE.

Scale: NOT TO SCALE		Designed by: 		MAINE TURNPIKE AUTHORITY 2360 Congress Street Portland, ME 04102 TEL (207) 871-7771 FAX (207) 879-5567		 <b>THE GOLD STAR MEMORIAL HIGHWAY</b>		DRAINAGE DETAILS I																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>HJM 6/26/24</td> <td>Checked</td> <td>JRL 6/26/24</td> </tr> <tr> <td>Drawn</td> <td>BMB 6/26/24</td> <td>In Charge of</td> <td>SRT 6/26/24</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	HJM 6/26/24	Checked	JRL 6/26/24	Drawn	BMB 6/26/24	In Charge of	SRT 6/26/24	 MTA PROJECT MANAGER: Harold James Mason, P.E.		SHEET NUMBER: P-3 CONTRACT: 2024.16 6 of 10	
No.	Revision	By	Date																																
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PLAN VIEW  
NTS



SECTION A-A  
NTS

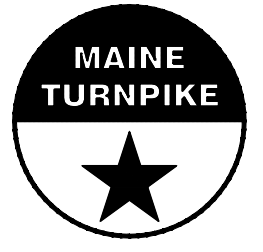
NOTES:

- STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MAINEDOT SPECIFICATION 703.26 AND WILL BE PAID FOR UNDER ITEM 610.08 PLAIN RIPRAP.
- REMOVAL OF SLOPE DRAIN PIPE IS INCIDENTAL TO CONSTRUCTION OF DOWNSPOUT.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

			
	By	Date	
Designed	HJM	6/26/24	Checked JRL 6/26/24
Drawn	BMB	6/26/24	In Charge of SRT 6/26/24

MAINE TURNPIKE AUTHORITY  
2360 Congress Street  
Portland, ME 04102  
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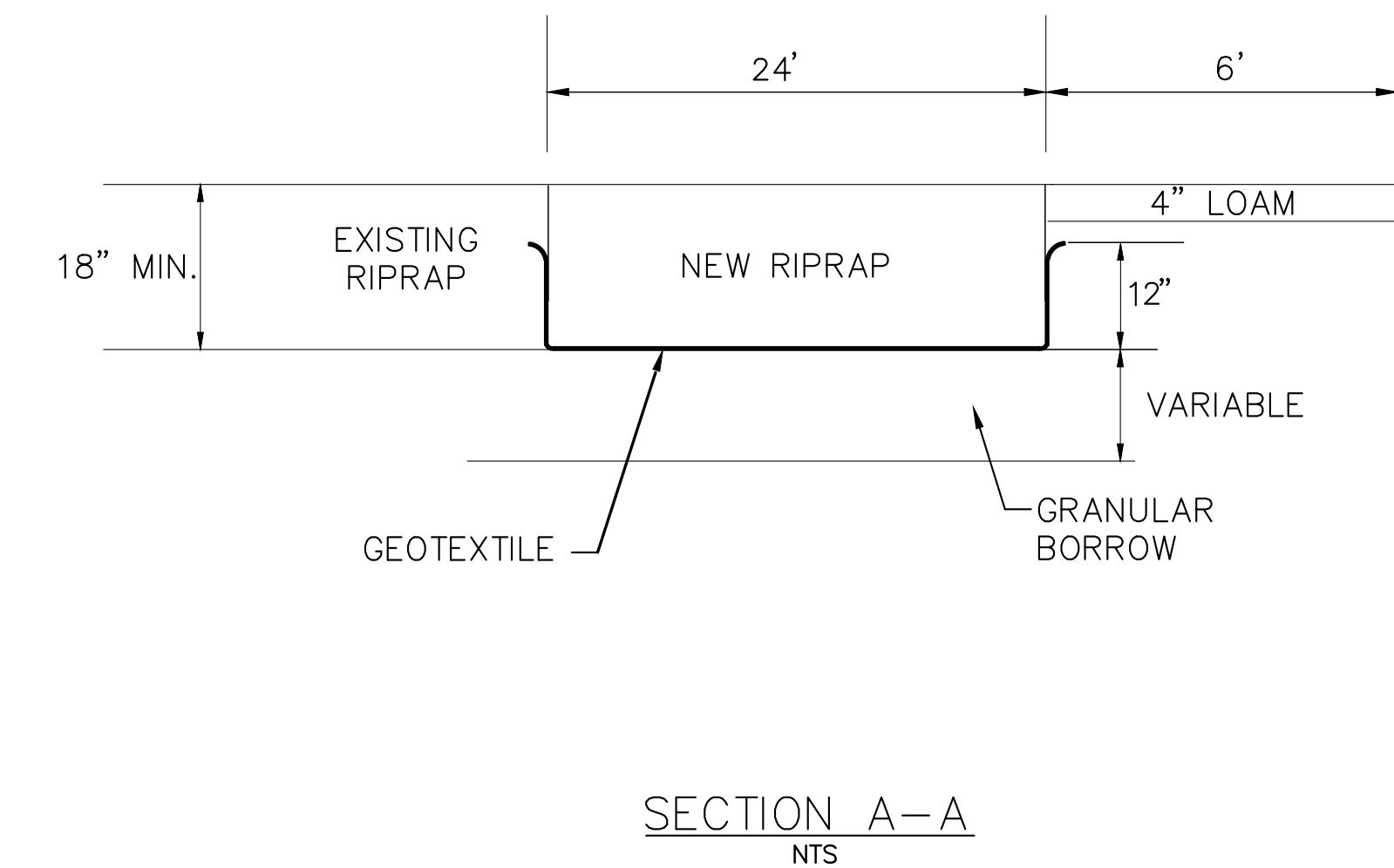
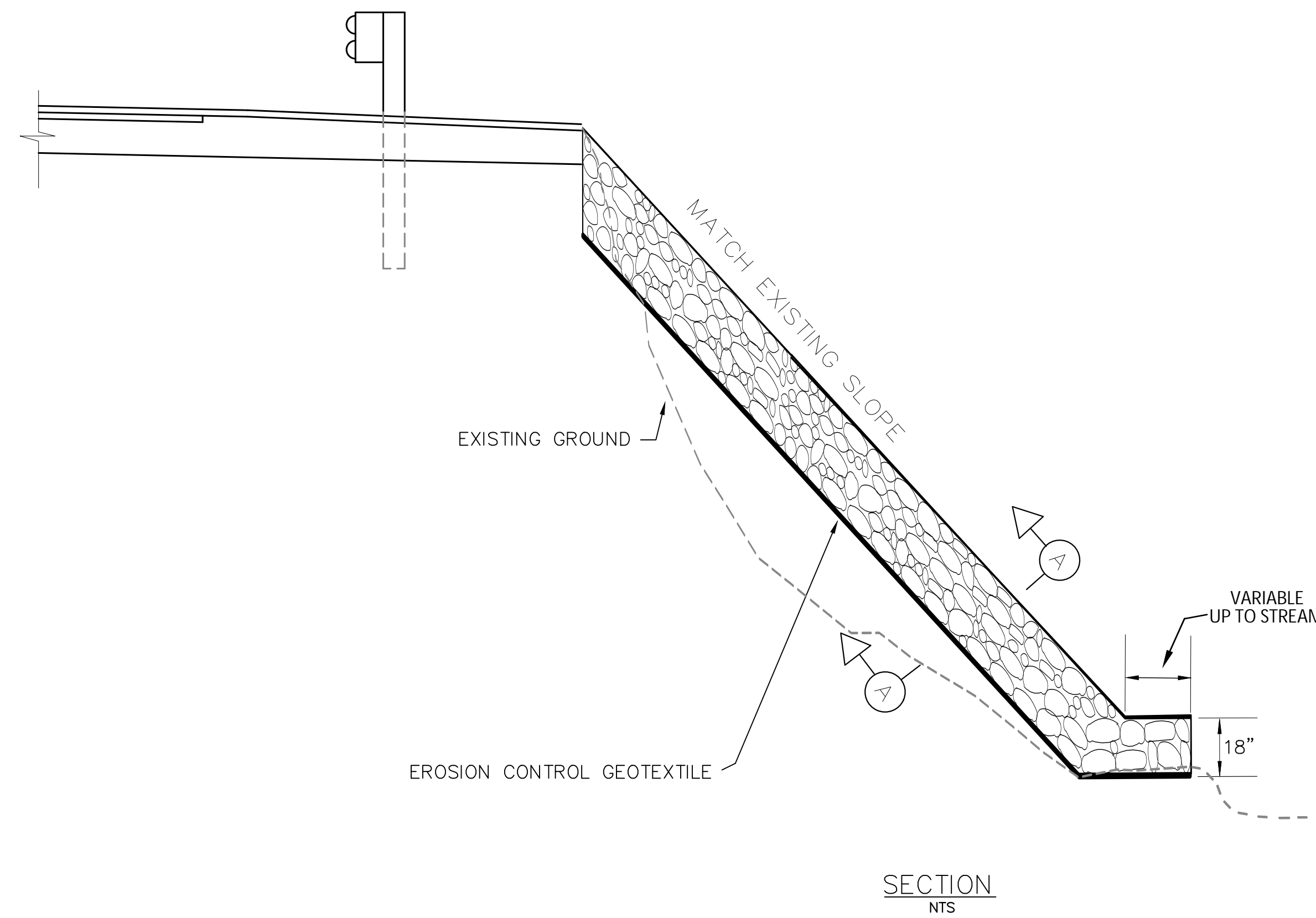
	<h2>THE GOLD STAR MEMORIAL HIGHWAY</h2>
<p>MTA PROJECT MANAGER: Harold James Mason, P.E.</p>	

DRAINAGE DETAILS II
SHEET NUMBER: P-4
CONTRACT: 2024.16
7 of 10



CONSTRUCTION ELEMENTS AND GENERAL SEQUENCE

1. REMOVE EXISTING MATERIAL UP TO 1' OR UNTIL APPROPRIATE BASE IS REACHED, WHICHEVER IS LESSER. APPROPRIATE BASE TO BE DETERMINED BY RESIDENT.
2. REPLACE CAVITY WITH GRANULAR BORROW BACK TO GRADE OF SURROUNDING SLOPE AND COMPACT TO REESTABLISH EMBANKMENT.
3. INSTALL RIPRAP WITH GEOTEXTILE.
4. LOAM 6' OUTSIDE OF RIPRAP OR TO THE EXTENT OF THE DISTURBED AREA, WHICHEVER IS GREATER.
5. INSTALL EROSION CONTROL BLANKET, SEED AND LOAM.

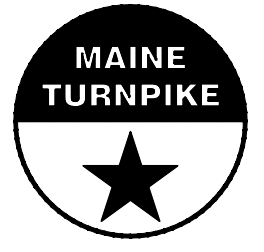


SLOPE REPAIR DETAILS  
N.T.S.

NOTE:

STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.26 AND WILL BE PAID FOR UNDER ITEM 610.08, PLAIN RIPRAP.

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:							
							
	By	Date		By	Date		
Designed	HJM	01/31/23	Checked	JRL	01/31/23		
Drawn	BMB	01/31/23	In Charge of	SRT	01/31/23		

MAINE TURNPIKE AUTHORITY  
2360 Congress Street  
Portland, ME 04102  
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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Harold James Mason, P.E.

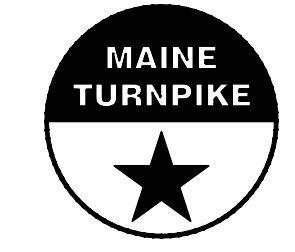
SLOPE REPAIR DETAILS
SHEET NUMBER: P -5
CONTRACT: 2024.16
8 of 10



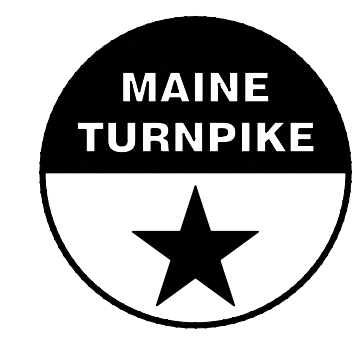


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Designed by:



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 2360 Congress Street  
 Portland, ME 04102  
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

SITE PLAN I

No.	Revision	By	Date
1	Addendum #2	HJM	2/2/23

	By	Date	By	Date	
Designed	HJM	01/31/23	Checked	JRL	01/31/23
Drawn	BMB	01/31/23	In Charge of	SRT	01/31/23

MTA PROJECT MANAGER: Harold James Mason, P.E.

CONTRACT: 2024.16

SHEET NUMBER: P - 6

9 of 10

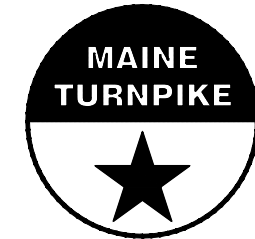
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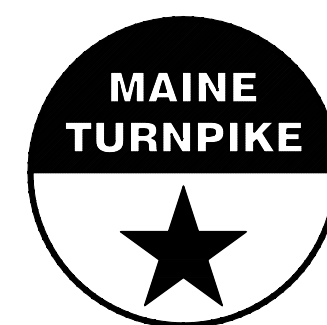


Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY  
 2360 Congress Street  
 Portland, ME 04102  
 TEL (207) 871-7771  
 FAX (207) 879-5567



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

SITE PLAN II

No.	Revision	By	Date
1	Addendum #2	HJM	2/2/23

	By	Date		By	Date
Designed	HJM	01/31/23	Checked	JRL	01/31/23
Drawn	BMB	01/31/23	In Charge of	SRT	01/31/23

MTA PROJECT MANAGER: Harold James Mason, P.E.

CONTRACT: 2024.16

SHEET NUMBER: P - 7

10 of 10