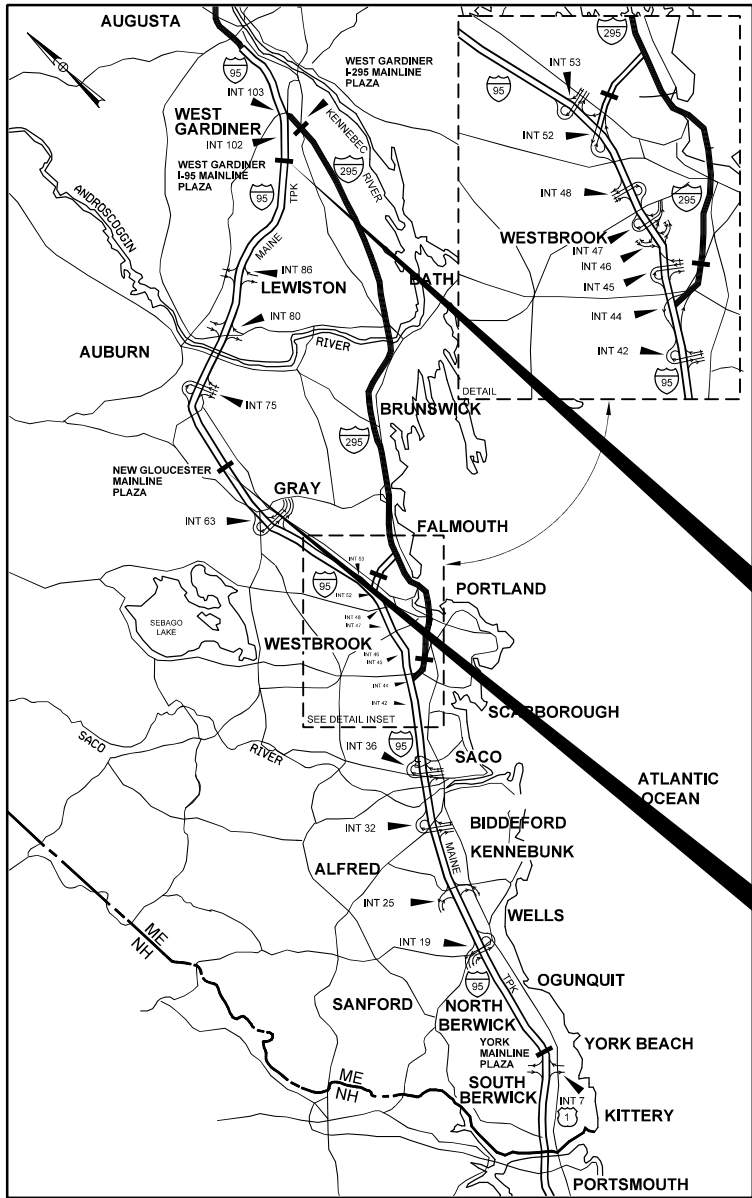


Date:12/31/2025

Filename: 001_Title Sheet.dgn



LOCATION MAP



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

MICHAEL J. CIANCHETTE, CHAIRMAN
JANE L. LINCOLN, VICE-CHAIR
EMILY BECKER, POLAND, MEMBER
NINA A. FISHER, FARMINGDALE, MEMBER
ANDREW MCLEAN, GORHAM, MEMBER
THOMAS J. ZUKE, SACO, MEMBER
DALE F. DOUGHTY, MEMBER EX-OFFICIO

ANDRE J. BRIERE, COLONEL, USAF (RET.), EXECUTIVE DIRECTOR

CONTRACT 2026.22
NEW GLOUCESTER
TUNNEL REPAIR
MILE MARKER 67.0

CONTRACT 2026.22
WEST GARDINER
TUNNEL REPAIR
MILE MARKER 100.2

CONTRACT 2026.22 TOLL PLAZA TUNNEL REPAIR NEW GLOUCESTER (MM 67.0) WEST GARDINER (MM 100.2)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND QUANTITIES
3-19	TUNNEL REPAIRS

APPROVED:
MAINE TURNPIKE AUTHORITY



STEPHEN R. TARTRE, P.E., - CHIEF ENGINEER/DIRECTOR OF ENGINEERING

DATE

TIMOTHY R. COTE, P.E.
VICE PRESIDENT/PROJECT DIRECTOR

DATE

CONTRACT 2026.22

Date:12/31/2025

GENERAL NOTES

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES LATEST REVISION AND MDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS.
2. DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE AVAILABLE HISTORICAL PLANS, ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACOR.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
4. ALL CRACKS IN THE TUNNEL WALLS, CEILING, AND STAIRWELLS THAT ARE 1/8 INCH WIDE OR GREATER SHALL BE SEALED USING AN EPOXY INJECTION SEALER.
5. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE AND IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
6. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652(CONSTRUCTION STANDARDS FOR EXCAVATION).
7. FILL/BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203. GRANULAR BORROW AND AGGREGATE SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203.
8. MATERIALS AND EQUIPMENT SHALL NOT BE STORED UNDER OR IN CLOSE PROXIMITY TO HIGHWAY STRUCTURES, TOLL SLABS, OR LOOPS UNLESS THE CONTRACTOR RECEIVES WRITTEN PERMISSION FROM THE AUTHORITY.
9. COPIES OF THE AS-BUILT PLANS ARE POSTED ON THE MAINE TURNPIKE AUTHORITY WEBSITE AT WWW.MAINETORNPIKE.COM/PROJECTS/CONSRUCTION-CONTRACTS. THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
10. CHAMFER ALL EXPOSED NEW CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- II. ELECTRICAL WORK REQUIRED TO POWER SUMP PUMPS, HEAT TRACE SYSTEMS, AND REPLACED STAIRWELL ENCLOSURE LIGHTING SHALL BE IN ACCORDANCE WITH DIVISION 26 SPECIAL PROVISION. THIS WORK SHALL BE INCIDENTAL TO RELATED CONTRACT PAY ITEMS.

UTILITY NOTES

1. 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. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF WORK. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.
2. THE CONTRACTOR SHALL NOTIFY ALL NON-MEMBERS THROUGH WWW.OKTODIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL NON-MEMBER NOTIFICATIONS WITHIN 24 HOURS OF THEIR RELEASE
3. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 CALENDAR DAYS PRIOR TO SUBMITTING ANY UTILITY LOCATE REQUESTS AS NOTED ABOVE SO THAT THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN 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.
4. FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE THE CONTRACTOR WILL GPS LOCATE ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR, ACTING AS THE AUTHORITY'S THIRD-PARTY LOCATOR, SHALL BE RESPONSIBLE FOR REMARKING ALL MAINE TURNPIKE FACILITIES WHEN A DIG SAFE UTILITY IS CALLED FOR THE PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

DRAINAGE NOTES

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT APPROVAL OF THE RESIDENT.

EROSION CONTROL

1. 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.
2. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.

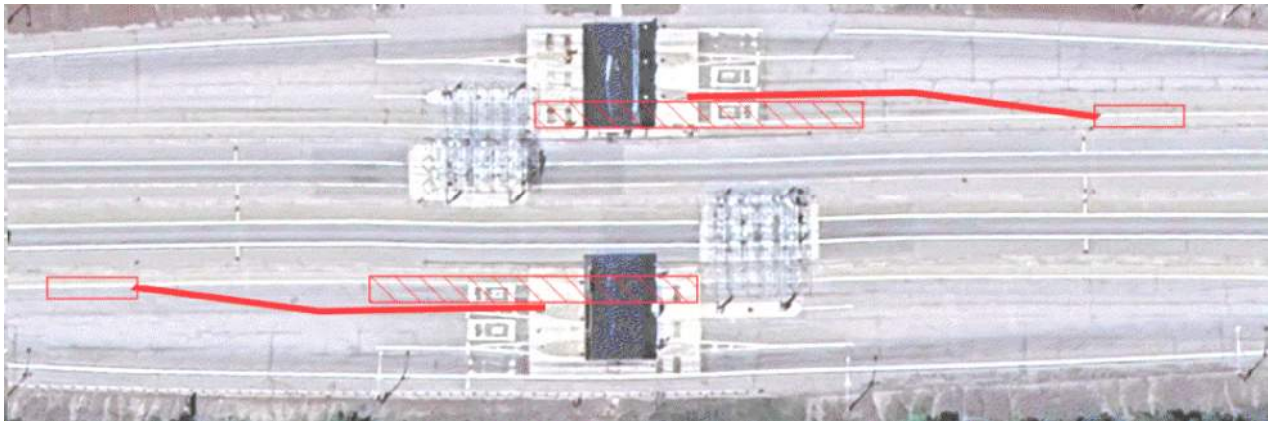
TOLL NOTES

1. CUTTING POWER TO TOLLING EQUIPMENT WILL CAUSE CATASTROPHIC FAILURE OF THE EQUIPMENT. PRIOR TO SHUTTING DOWN OR POWERING ANY TOLLING EQUIPMENT, COORDINATION BY THE CONTRACTOR IS REQUIRED WITH THE RESIDENT, MTA'S DIRECTOR OF ITS, AND TRANSORE.

ESTIMATED QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
515.203	Broadcast Sealant for Concrete Surfaces	SY	1910
518.40	Epoxy Injection Crack Repair	LF	200
518.511	Repair of Concrete Surfaces - Stairwell Steps	LS	1
518.512	Repair of Concrete Surfaces - Stairwell Grinding	EA	4
518.513	Repair of Concrete Surfaces - Stairwell Landing	EA	4
518.514	Tollbooth Blockout Sealing	EA	10
526.306	Temporary Concrete Barrier, Type I - Supplied by Authority (300 LF)	LS	1
527.342	Work Zone Crash Cushions - TL-2	UNIT	1
631.53	Electrician	HR	20
631.54	Electrician's Apprentice	HR	20
652.361	Maintenance of Traffic Control Devices	LS	1
652.41	Portable-Changeable Message Sign	EA	1
659.10	Mobilization	LS	1
800.31	Stairwell Enclosure	LS	1
800.32	Tollbooth Canopy Drainage Modifications	LS	1

LIST OF ABBREVIATIONS

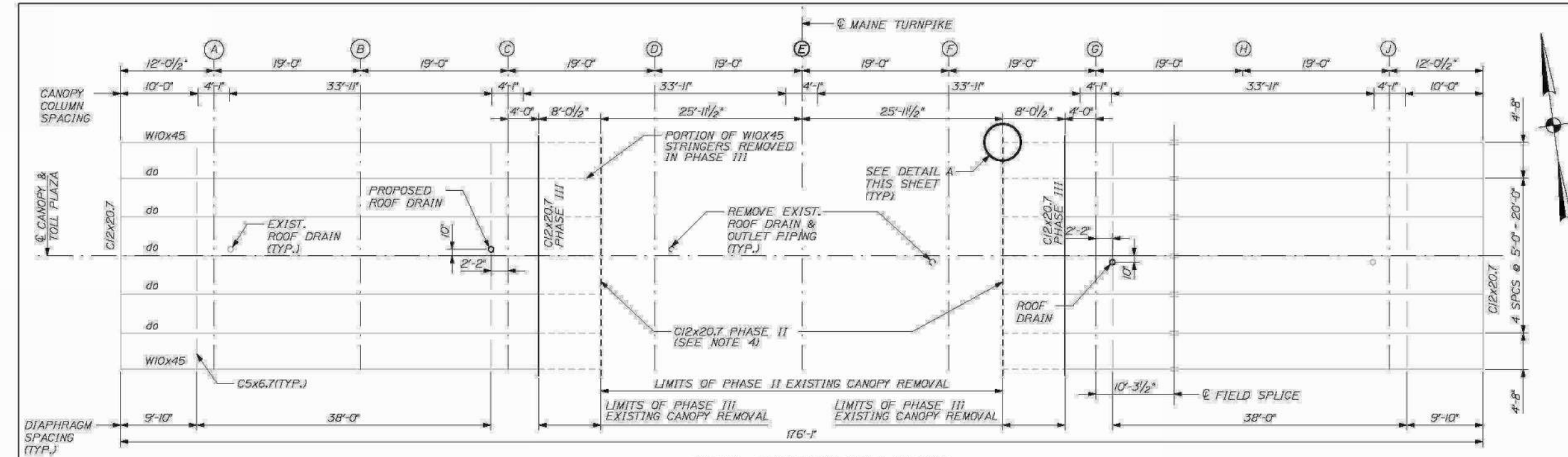
ABUT. - ABUTMENT	EA. - EACH	MTA - MAINE TURNPIKE AUTHORITY	SP. - SPACES
ADDL. - ADDITIONAL	EB - EASTBOUND		STA. - STATION
ALT. - ALTERNATE	E.F. - EACH FACE	NB - NORTHBOUND	T.&B. - TOP & BOTTOM
APPROX. - APPROXIMATELY	EL. - ELEVATION	N.F. - NEAR FACE	TPKE. - TURNPIKE
B - BASELINE	EQ. - EQUAL	N.T.S. - NOT TO SCALE	TSYLL - TEMPORARY SOLID YELLOW LANE LINE
BOT. - BOTTOM	EXIST. - EXISTING	PED. - PEDESTAL	TSWLL - TEMPORARY SOLID WHITE LANE LINE
BRG. - BEARING	EXP. - EXPANSION	PGL - PROFILE GRADE LINE	
CL - CLEAR	F.F. - FAR FACE	P - PLATE	TYP. - TYPICAL
C - CENTERLINE	JT. - JOINT	PROP. - PROPOSED	U.O.N. - UNLESS OTHERWISE NOTED
CONC. - CONCRETE	MAX. - MAXIMUM	P.S.I. - POUNDS per SQUARE INCH	VERT. - VERTICAL
CONSTR. - CONSTRUCTION	MEDOT - MAINE DEPARTMENT OF TRANSPORTATION	SHLDR. - SHOULDER	WB - WESTBOUND
C.Y. - CUBIC YARD	MIN. - MINIMUM	SB - SOUTHBOUND	W.P. - WORKING POINT
DEMO. - DEMOLITION		SF - SQUARE FEET	WW - WINGWALL
DIA. - DIAMETER			



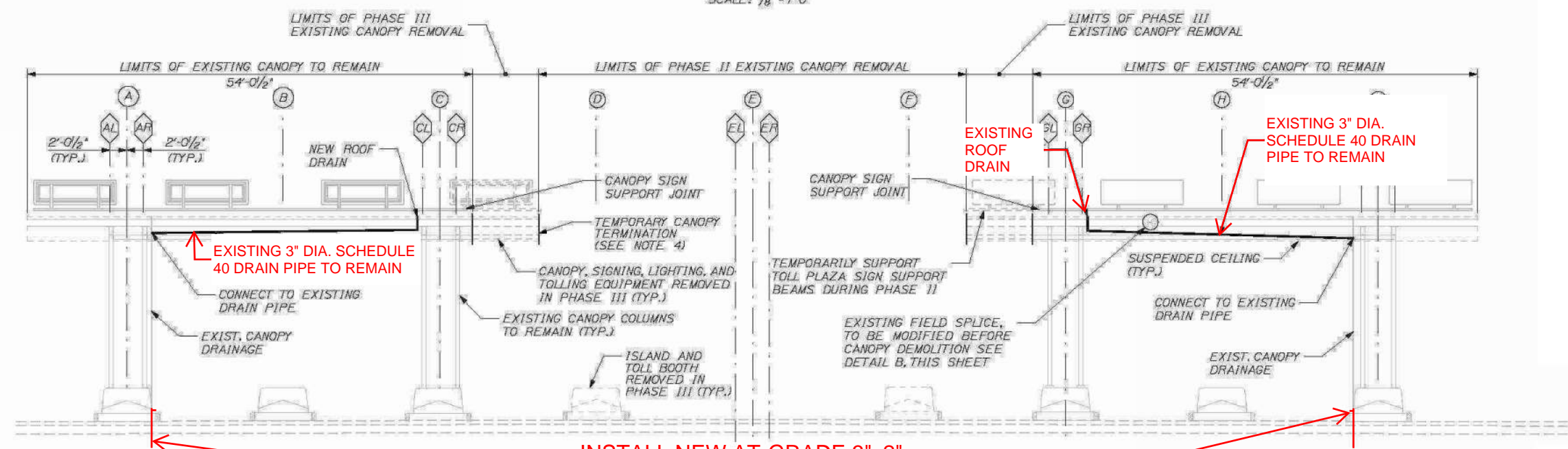
EXAMPLE LOCATION OF TEMPORARY CONCRETE BARRIER AND WORK ZONE CRASH CUSHION AT NEW GLOUCESTER N.T.S.

Filename: 002_Estimated Quantities.dgn

Filename: 002_Estimated Q	Scale:				Designed by:				<div>HNTB</div>				<div>HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</div>				<div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				<div>WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS</div> <div>GENERAL NOTES AND QUANTITIES</div>			
	No.	Revision		By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.																		



PLAN - EXISTING TOLL PLAZA
SCALE: 1/8" = 1'-0"



INSTALL NEW AT-GRADE 3"x2" SCHEDULE 40 PVC REDUCER, BOTH ENDS. SEE DETAIL D SHOWN ON PAGES S-06 AND S-07.

ELEVATION - PROPOSED TOLL PLAZA
SCALE: 1/8" = 1'-0"

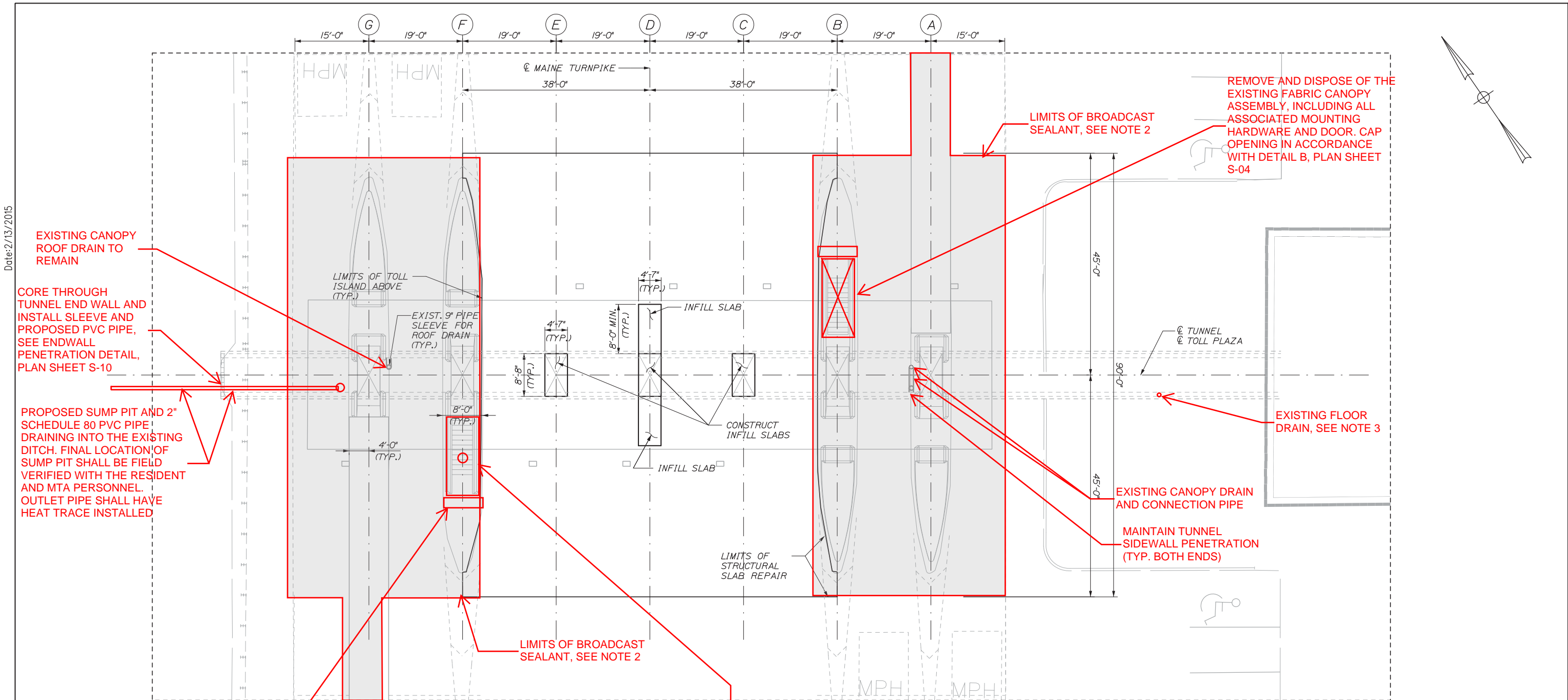
NOTES:

1. PROPOSED WORK ON THIS PLAN SHEET IS INDICATED IN RED, OVERLAID ON EXISTING LINEWORK FROM THE 2011 TOLL PLAZA ORT CONVERSION PROJECT.

Scale: NOT TO SCALE				Designed by:				<p>HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</p>				<p>THE GOLD STAR MEMORIAL HIGHWAY</p>				<p>WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS</p> <p>NEW GLOUCESTER TOLL TUNNEL</p>																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> <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> </table>				No.	Revision	By	Date																									<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> <tr> <td>Designed</td> <td>KJK 09/25</td> <td>Checked</td> <td>BRG 09/25</td> </tr> <tr> <td>Drawn</td> <td>KJK 09/25</td> <td>In Charge of</td> <td>TRC 09/25</td> </tr> </table>				By	Date	By	Date	Designed	KJK 09/25	Checked	BRG 09/25	Drawn	KJK 09/25	In Charge of	TRC 09/25	<p>MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.</p>				<p>CONTRACT: 2026.22</p>			
No.	Revision	By	Date																																																				
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Drawn	KJK 09/25	In Charge of	TRC 09/25																																																				
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				SHEET NUMBER: S-02																																																			
				4 OF 19																																																			


Date: 2/13/2015

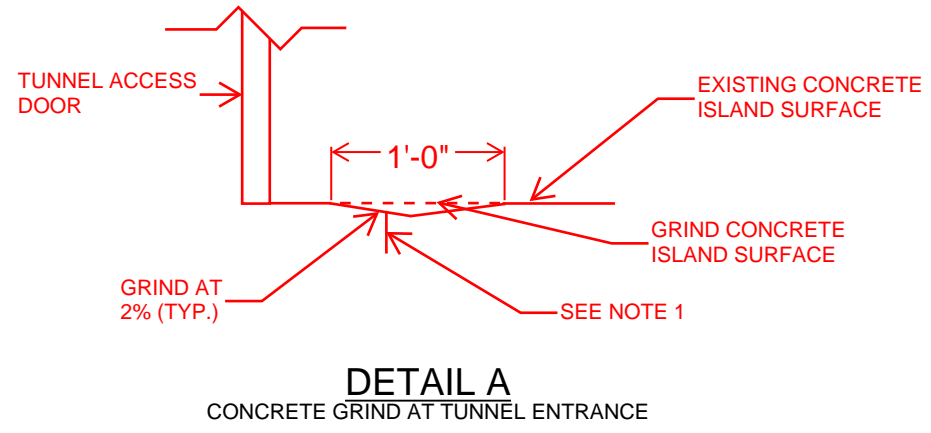
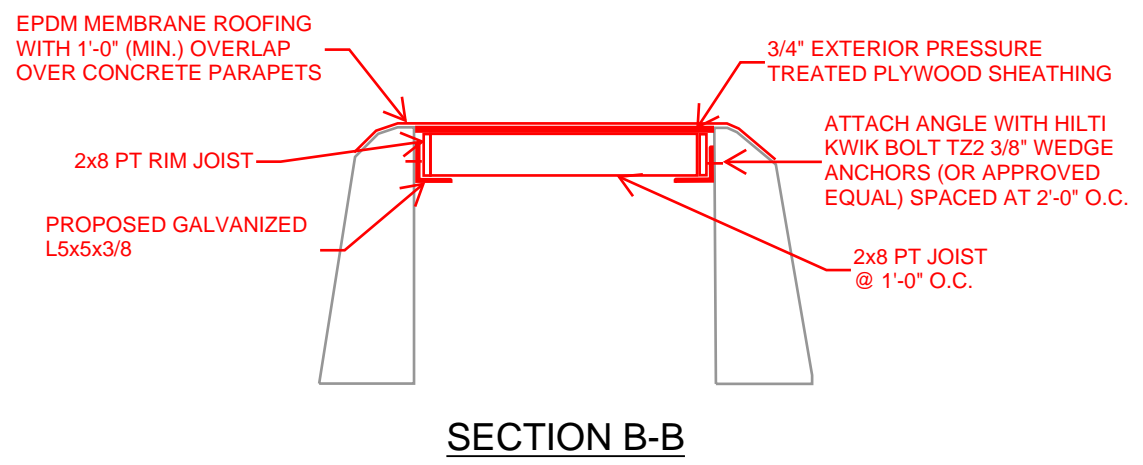
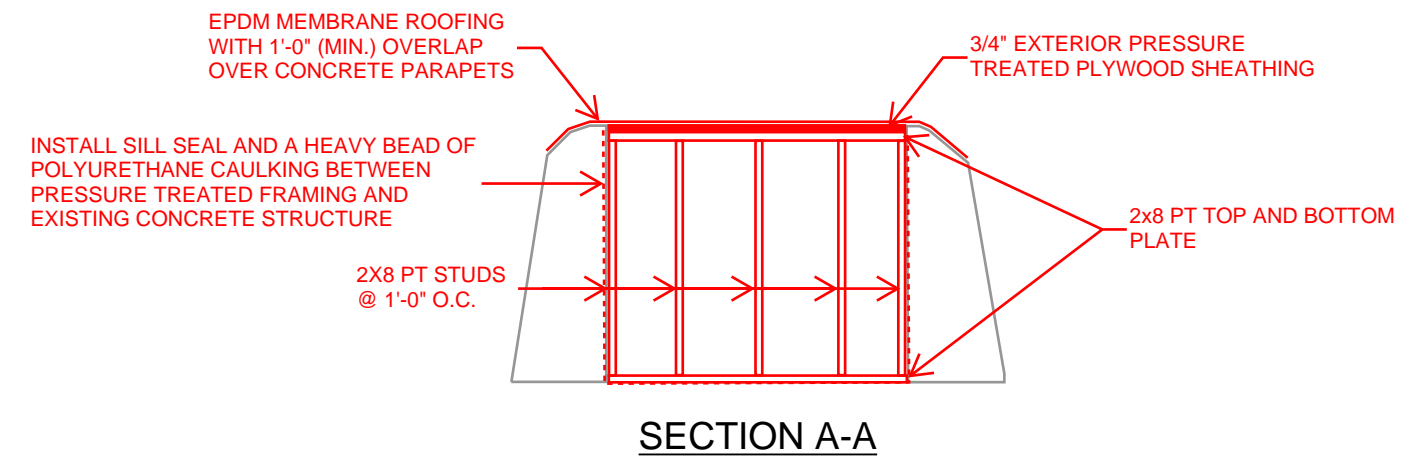
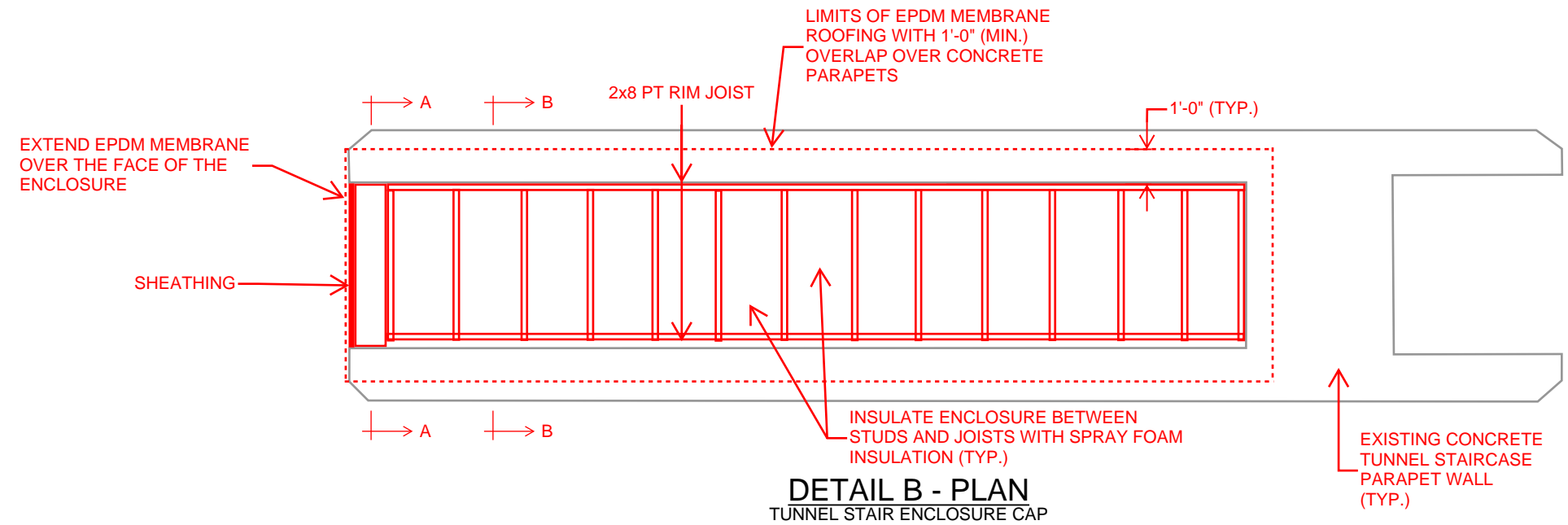
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PLAN - TUNNEL REPAIRS
NTS

- NOTES:**
1. PROPOSED WORK ON THIS PLAN SHEET IS INDICATED IN RED, OVERLAID ON EXISTING LINEWORK FROM THE 2011 TOLL PLAZA ORT CONVERSION PROJECT.
 2. ALL HORIZONTAL CONCRETE SURFACES SHALL RECEIVE TWO COATS OF BROADCAST SEALANT IN ACCORDANCE WITH SPECIAL PROVISION 515.
 3. PROPOSED SUMP PITS SHALL BE CONSTRUCTED ON THE WEST END OF THE TUNNEL. THE EXISTING FUNCTIONING FLOOR DRAIN ON THE EAST END OF THE TUNNEL SHALL REMAIN IN PLACE. THE FLOOR DRAIN AND OUTLET PIPE SHALL BE CLEANED AND DESCALED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. PIPE SHALL THEN BE SEALED WITH 2 COATS OF PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL. FLOW THROUGH THIS PIPE SHALL BE VERIFIED BY THE CONTRACTOR AND RESIDENT PRIOR TO ORDERING MATERIALS OR BEGINNING WORK. ON THE WEST END OF THE TUNNEL, THE SUMP PIT FINAL LOCATION SHALL BE FIELD VERIFIED WITH THE RESIDENT AND THE MAINE TURNPIKE AUTHORITY.
 4. ALL CRACKS IN THE TUNNEL WALLS, CEILING, AND STAIRWELLS THAT ARE 1/8 INCH WIDE OR GREATER SHALL BE SEALED USING AN EPOXY INJECTION SEALER.

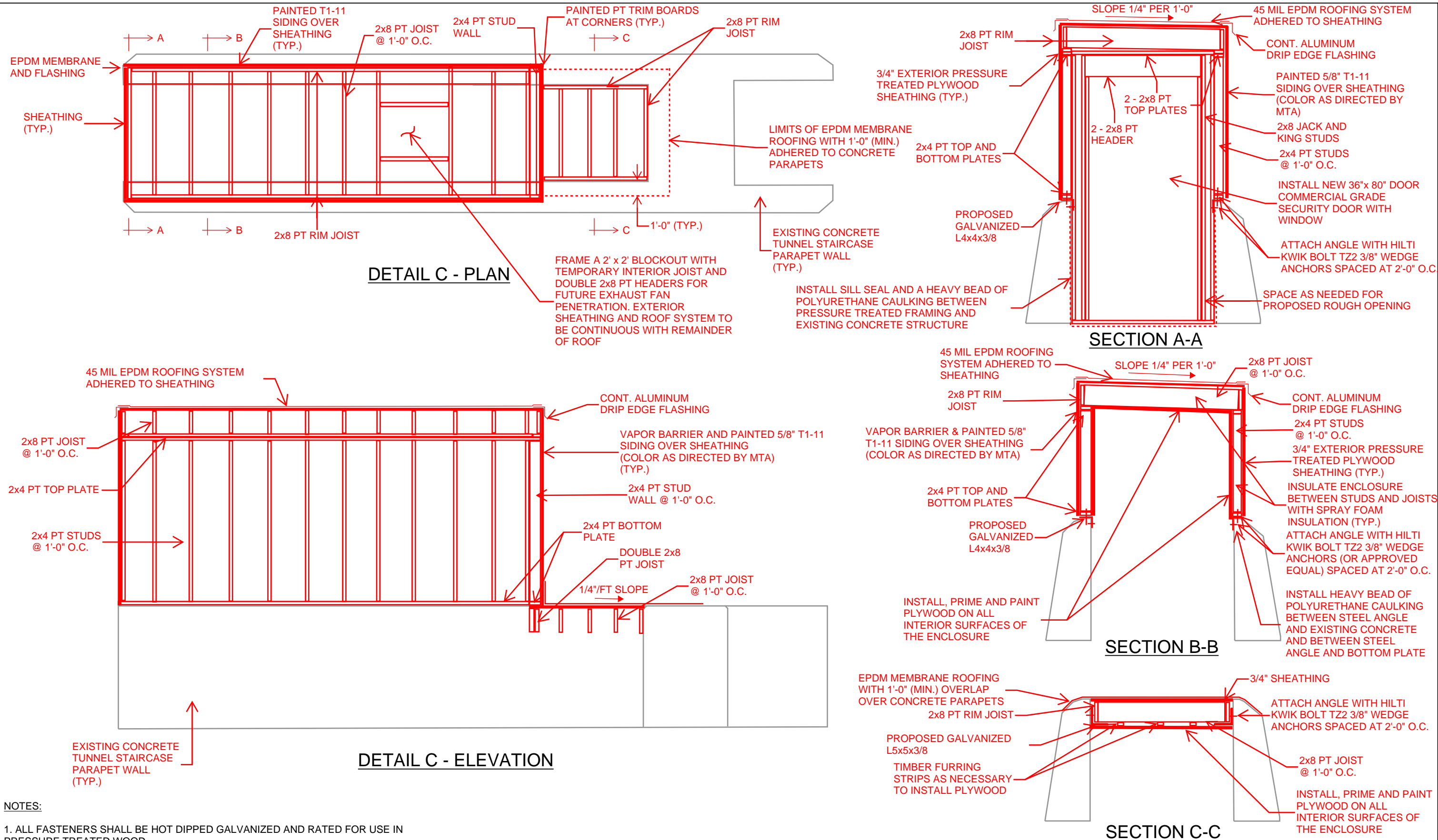
Scale: <i>NOT TO SCALE</i>				Designed by: HNTB				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				 THE GOLD STAR MEMORIAL HIGHWAY				WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS WEST GARDINER TOLL TUNNEL					
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.								MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				CONTRACT: 2026.22					
				By	Date	By	Date									SHEET NUMBER: S-03					
				Designed	KJK	09/25	Checked	BRG	09/25									5 OF 19			
				Drawn	KJK	09/25	In Charge of	TRC	09/25												



NOTES:



1. THERE IS AN EXISTING TRANSVERSE CONSTRUCTION JOINT IN THE CONCRETE ISLAND DIRECTLY ADJACENT TO THE TUNNEL ACCESS DOOR. FINAL LIMITS AND LOCATION OF CONCRETE GRINDING SHALL BE FIELD VERIFIED WITH THE RESIDENT ENGINEER. IF THE EXISTING CONSTRUCTION JOINT IS DISTURBED THE EXISTING JOINT SEALER SHALL BE REMOVED PRIOR TO GRINDING ACTIVITIES. AFTER GRINDING IS COMPLETE, THE CONSTRUCTION JOINT SHALL BE CLEANED AND SEALED WITH A SELF LEVELING ELASTOMERIC SEALER (1" DEEP, MIN.). THE CONSTRUCTION JOINT SHALL NOT BE LOCATED AT THE LOW POINT OF THE CONCRETE GRINDING IN THE FINAL CONDITION.
2. REMOVE ALL EXISTING ELECTRICAL WIRING AND FIXTURES FROM THE EXISTING STAIRWELL ENCLOSURES AS PART OF ENCLOSURE DEMOLITION.
3. UTILIZING THE EXISTING LIGHTING CIRCUIT, INSTALL NEW PVC CONDUIT AND WIRE TO PROVIDE POWER TO A NEW 4' LED INDUSTRIAL STRIP LIGHT MOUNTED ON THE CEILING OF THE NEW STAIR ENCLOSURE. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING WITHIN THE STAIR ENCLOSURE BETWEEN THE DEMOLITION OF THE EXISTING LIGHT AND THE INSTALLATION OF THE NEW LIGHT.

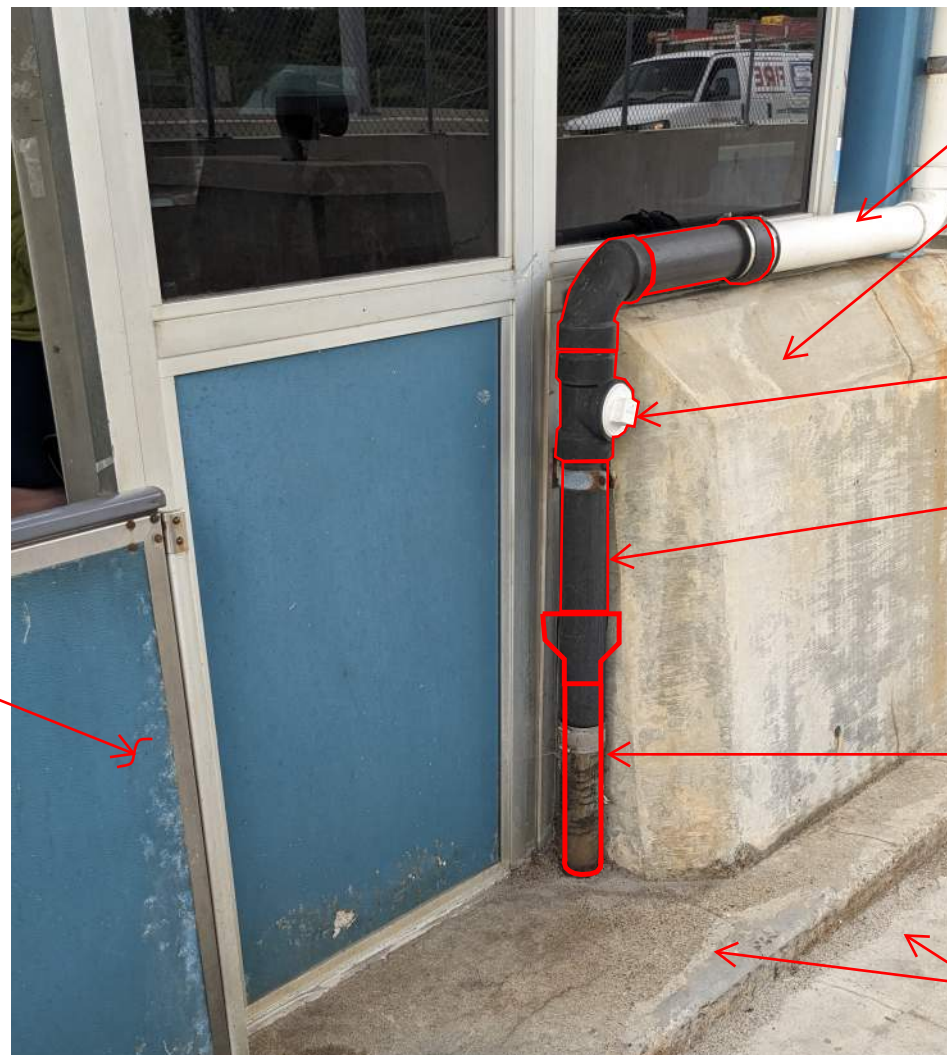
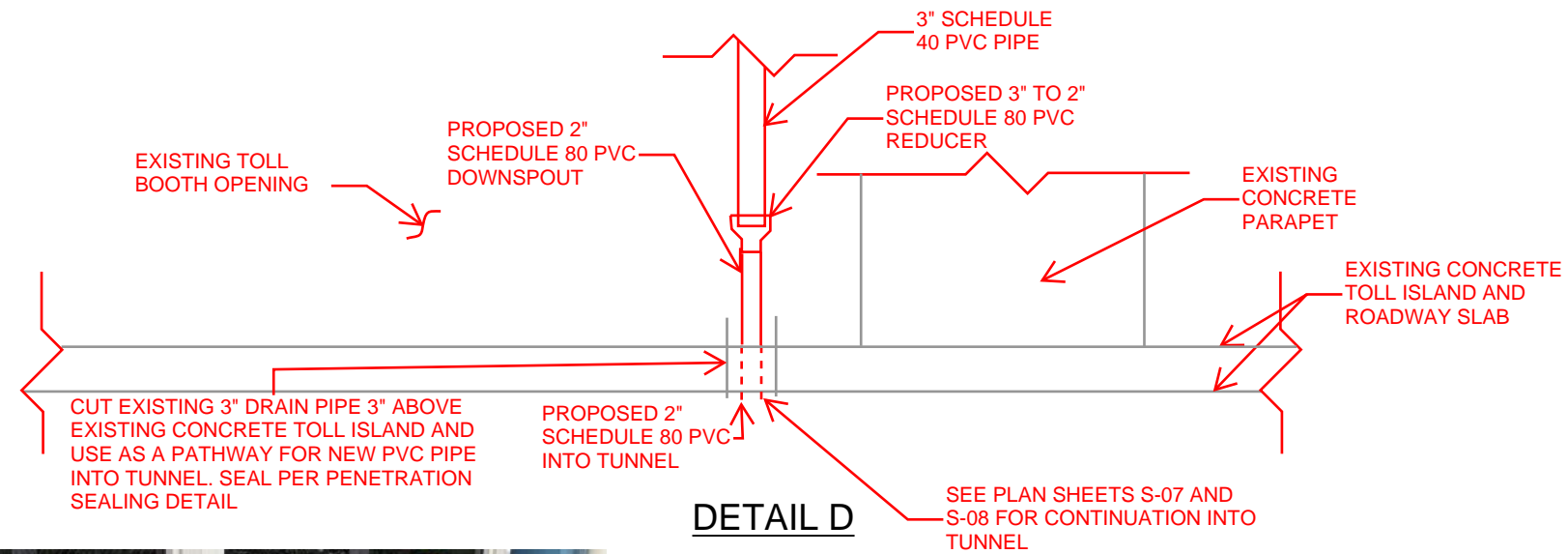
Scale: NOT TO SCALE				Designed by: <div>HNTB</div>				<div>HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</div> <div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS STAIR ENCLOSURE CAP			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.								SHEET NUMBER: S-04			
					By	Date		By	Date	CONTRACT: 2026.22					
				Designed	KJK	09/25	Checked	BRG	09/25	MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.					
				Drawn	KJK	09/25	In Charge of	TRC	09/25	6 OF 19					



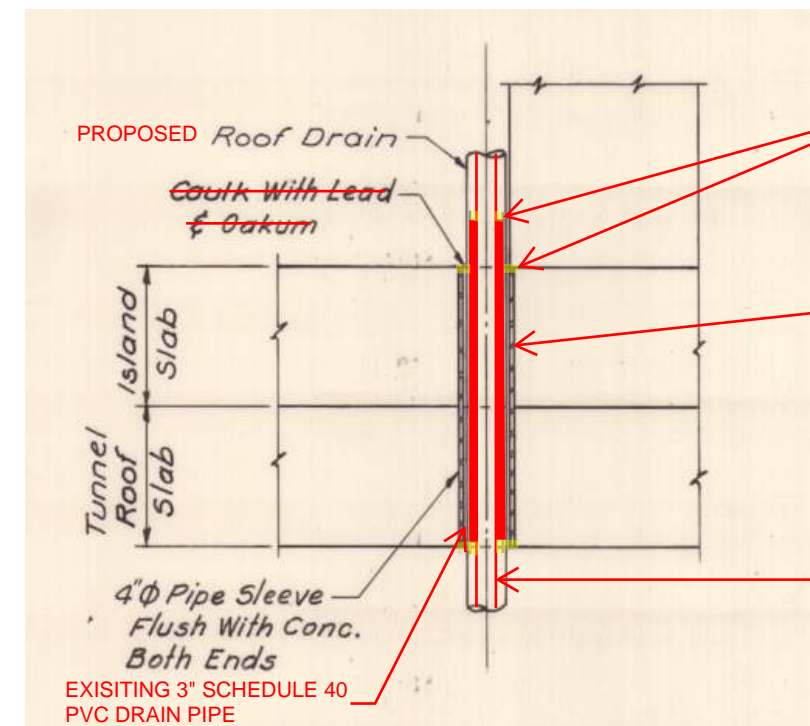
NOTES:

1. ALL FASTENERS SHALL BE HOT DIPPED GALVANIZED AND RATED FOR USE IN PRESSURE TREATED WOOD.

Scale: <i>NOT TO SCALE</i>				Designed by:				<div> HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</div>				<div> THE GOLD STAR MEMORIAL HIGHWAY</div>		WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS STAIR ENCLOSURE	
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.															
No.	Revision	By	Date	By	Date	By	Date	MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				SHEET NUMBER: S-05			
				Designed	KJK	09/25	Checked	BRG	09/25	CONTRACT: 2026.22		7 OF 19			
				Drawn	KJK	09/25	In Charge of	TRC	09/25						



**NEW GLOUCESTER CANOPY DRAIN REPLACEMENT
ELEVATION - ROADWAY**



**NEW GLOUCESTER TUNNEL
PENETRATION SEALING DETAIL**

Scale: NOT TO SCALE				Designed by: <div>HNTB</div>					<div>HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</div> <div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS CANOPY DRAIN MODIFICATION DETAILS I			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.									SHEET NUMBER: S-06			
					By	Date		By	Date	MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.						
				Designed	KJK	09/25	Checked	BRG	09/25							
				Drawn	KJK	09/25	In Charge of	TRC	09/25	CONTRACT: 2026.22						
									8 OF 19							



SEE PLAN SHEET S-06 FOR TOPSIDE MODIFICATIONS.

EXISTING TUNNEL PENETRATION FROM ROOF CANOPY DRAIN TO REMAIN

CAP AND SEAL EXISTING TUNNEL SIDE WALL PENETRATION WITH END OF PIPE PLUG WITH WING NUT

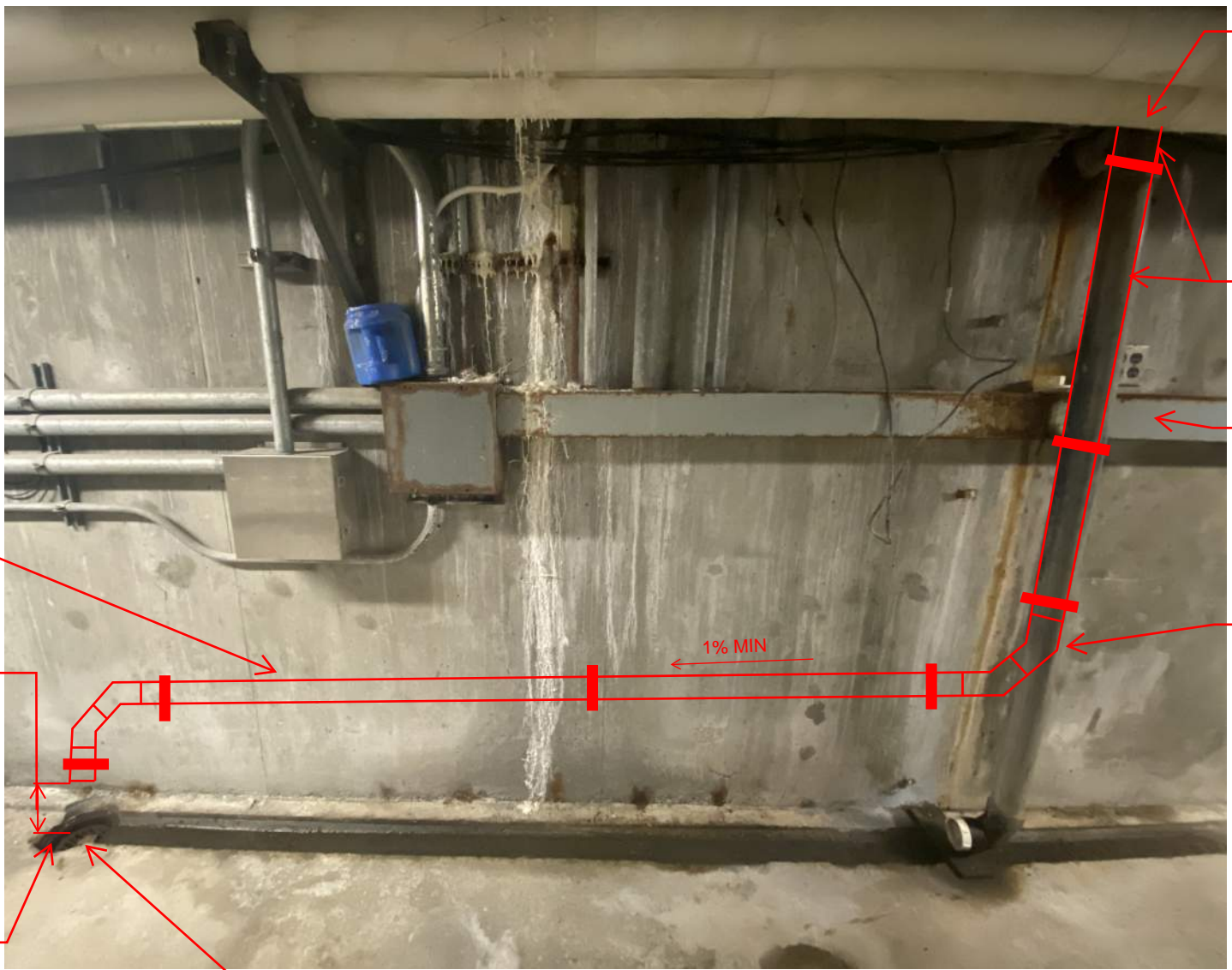
PROPOSED 2" SCHEDULE 80 PVC PIPE

3" MIN. 6" MAX.

REMOVE EXISTING WYE FITTING AND 3" SCHEDULE 40 PIPE

EXISTING FLOOR DRAIN TO BE REPLACED, SEE PLAN SHEET S-12

**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 1**



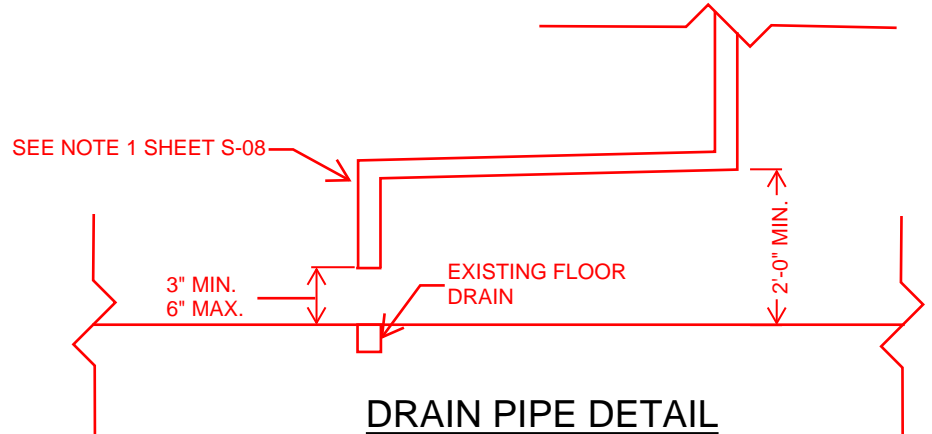
SEE PLAN SHEET S-06 FOR TOPSIDE MODIFICATIONS.

REMOVE EXISTING DOWNSPOUT AND REPLACE WITH 2" SCHEDULE 80 PVC PIPE

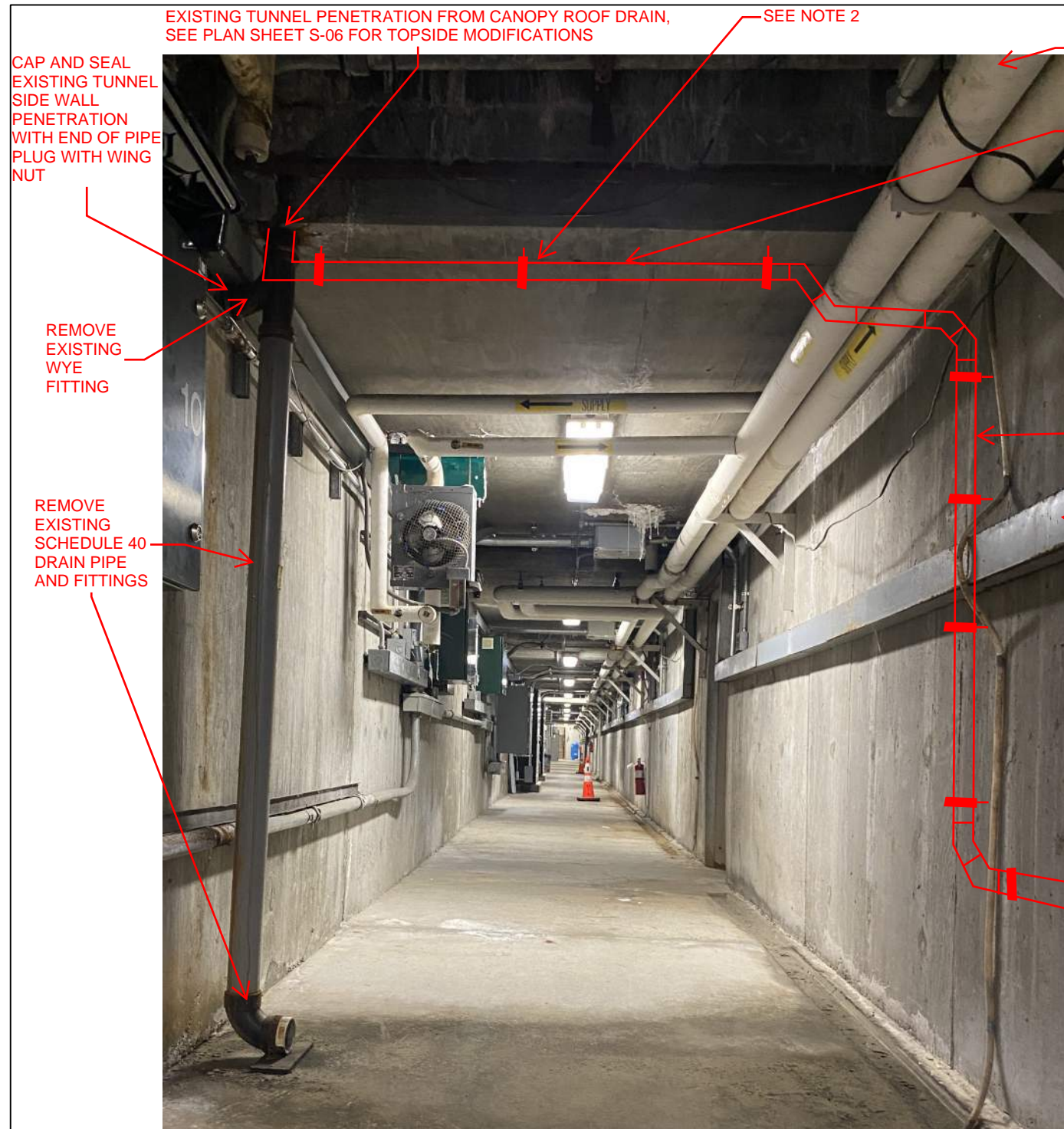
EXISTING ELECTRICAL RACEWAY

SEE NOTE 2 SHEET S-08

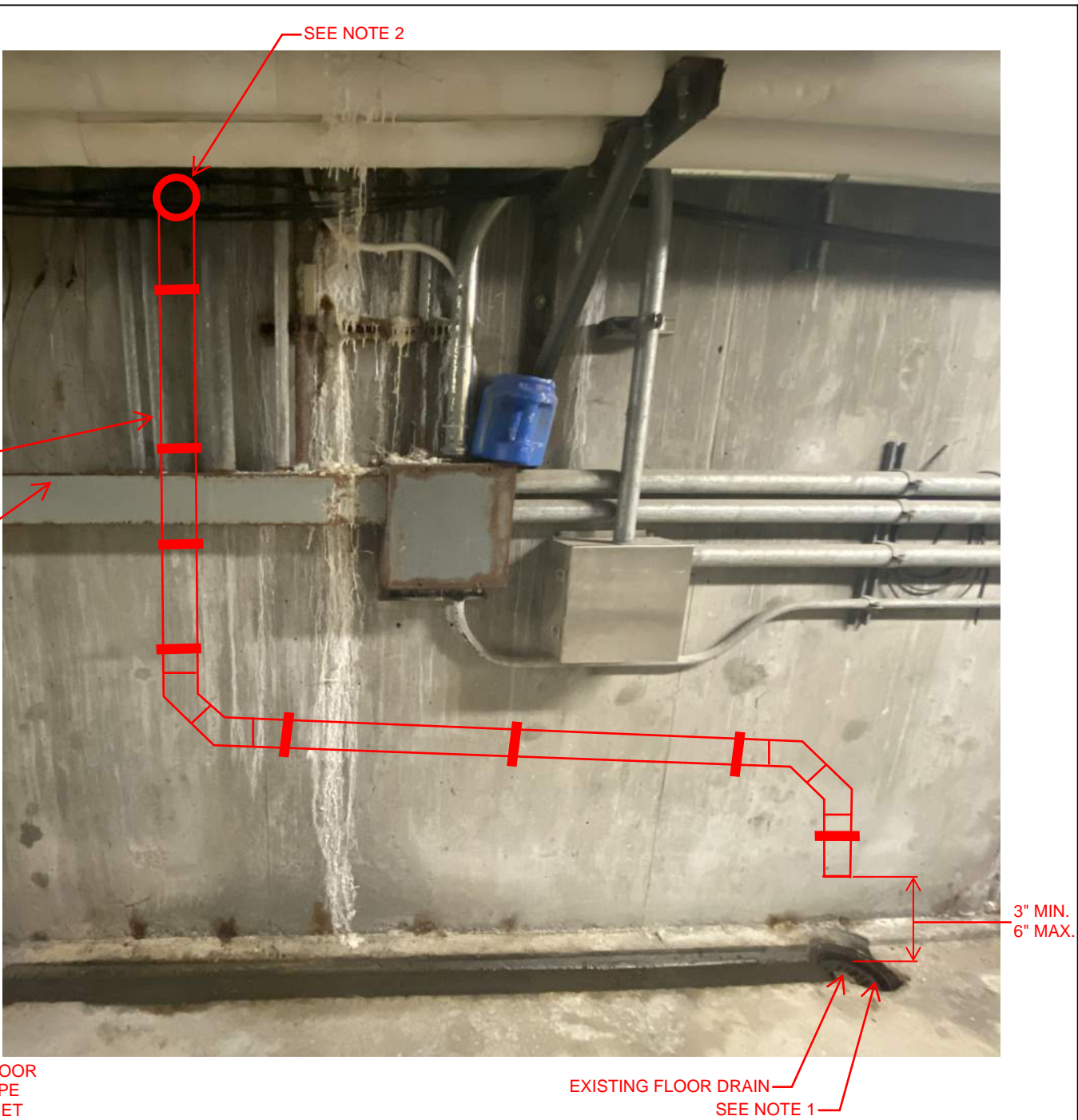
**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 1**



DRAIN PIPE DETAIL



**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 2**

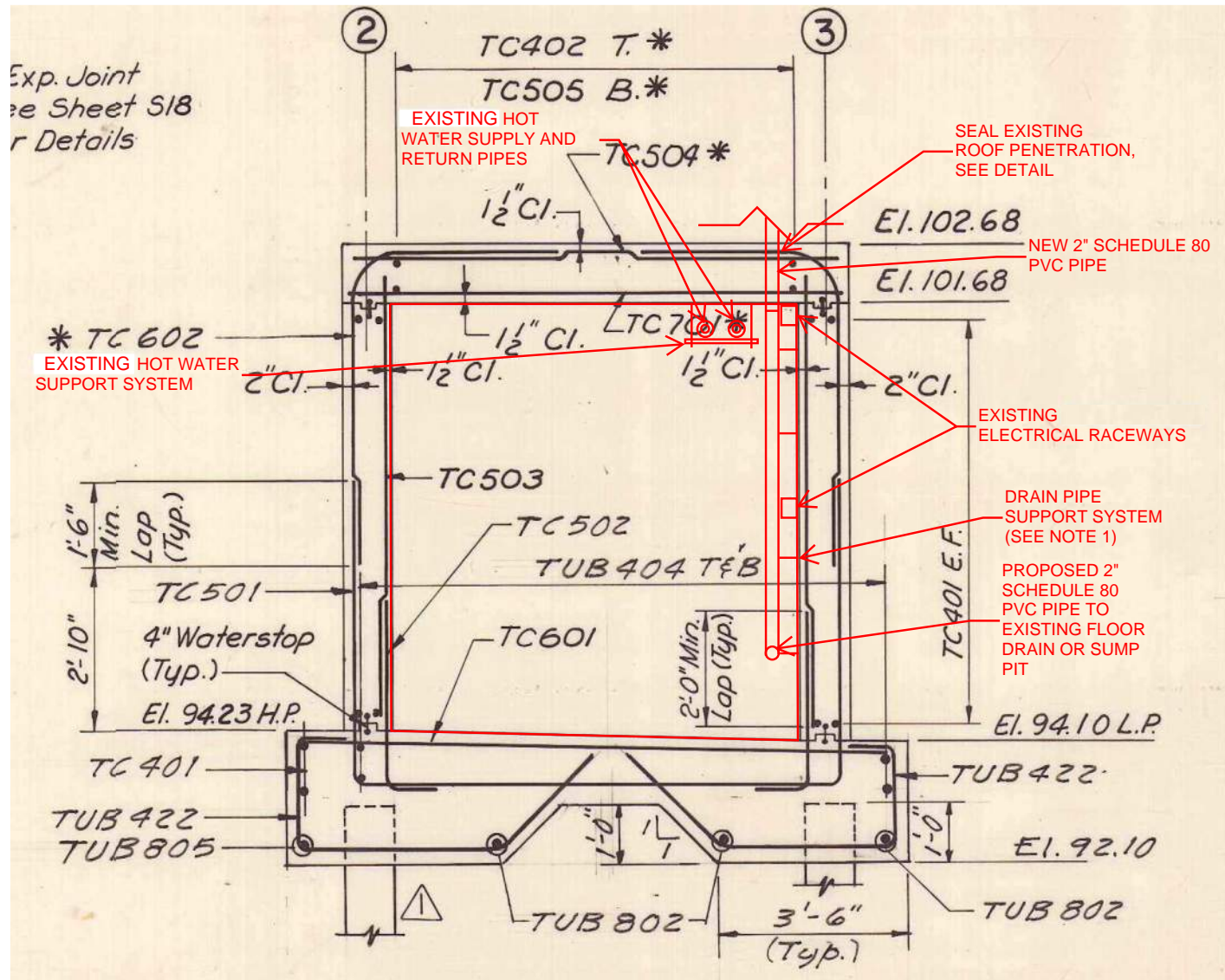


**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 2**

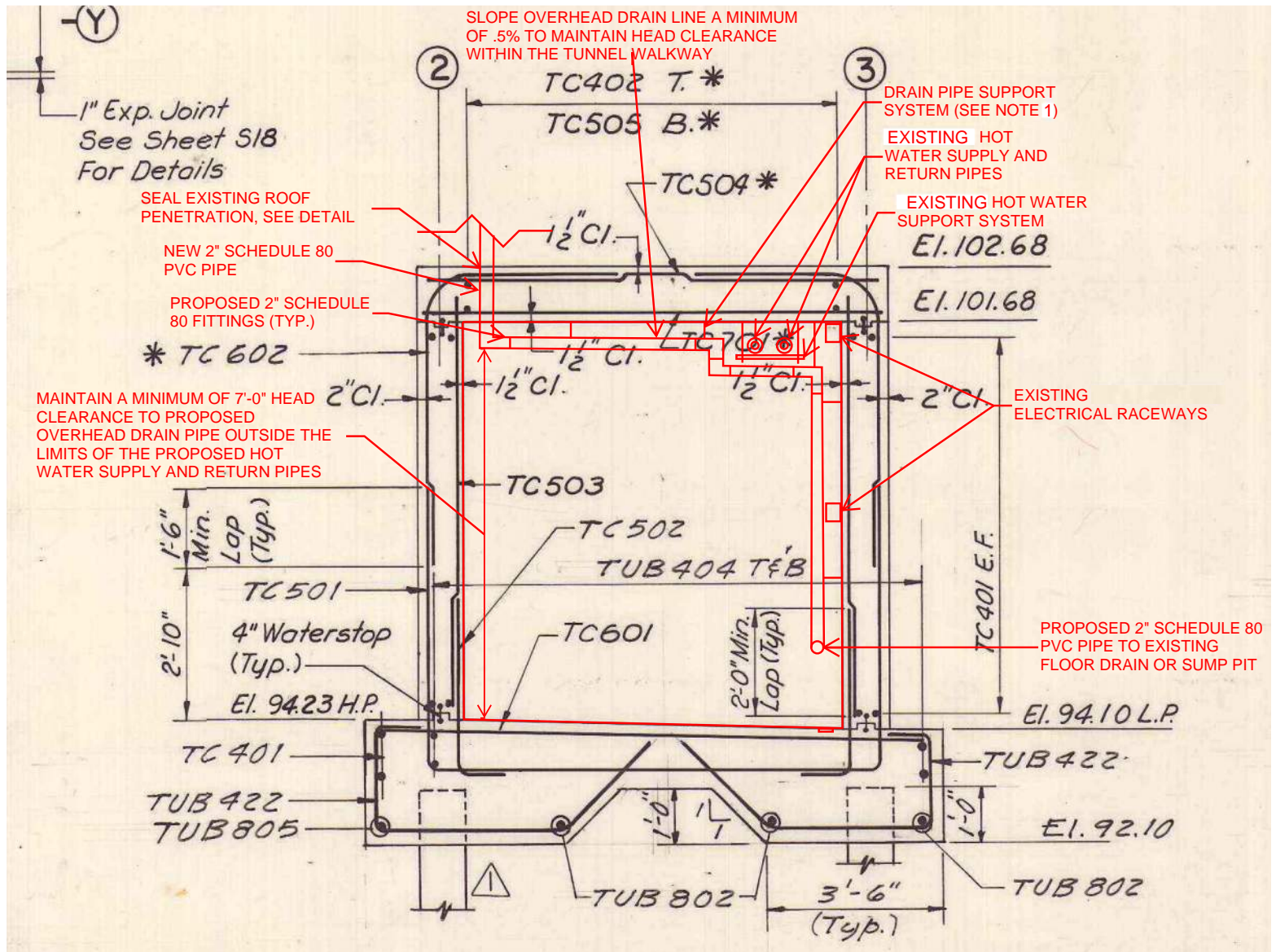
NOTES:

1. THE DRAIN PIPE DOWNSPOUTS FROM THE TUNNEL PENETRATION SHALL BE PIPED HORIZONTALLY AT 1/4" PER FOOT ALONG THE WALL TO THE CLOSEST FLOOR DRAIN LOCATION AT THE NEW GLOUCESTER TOLL PLAZA.
2. SCHEDULE 80 PVC 2" DRAIN PIPE SHALL BE SUPPORTED BOTH HORIZONTALLY AND VERTICALLY USING GALVANIZED SPLIT RING HANGERS WITH MINIMUM 3/8" RODS FASTENED TO CONCRETE STRUCTURE, OR AS APPROVED BY THE RESIDENT. HANGERS SHALL BE SPACED NO FURTHER THAN 48" APART AND WITHIN 12" OF A CHANGE OF DIRECTION.

Scale: NOT TO SCALE				Designed by: <div>HNTB</div>				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				<div><div>MAINE TURNPIKE</div><div>★</div></div> <div>THE GOLD STAR MEMORIAL HIGHWAY</div>		WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS CANOPY DRAIN MODIFICATION DETAILS III			
No.	Revision	By	Date														
				CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.													
					By	Date		By	Date								
				Designed	KJK	09/25	Checked	BRG	09/25								
				Drawn	KJK	09/25	In Charge of	TRC	09/25								
								MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				CONTRACT: 2026.22					
												SHEET NUMBER: S-08					
												10 OF 19					



**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT SECTION - CONFIGURATION 1**

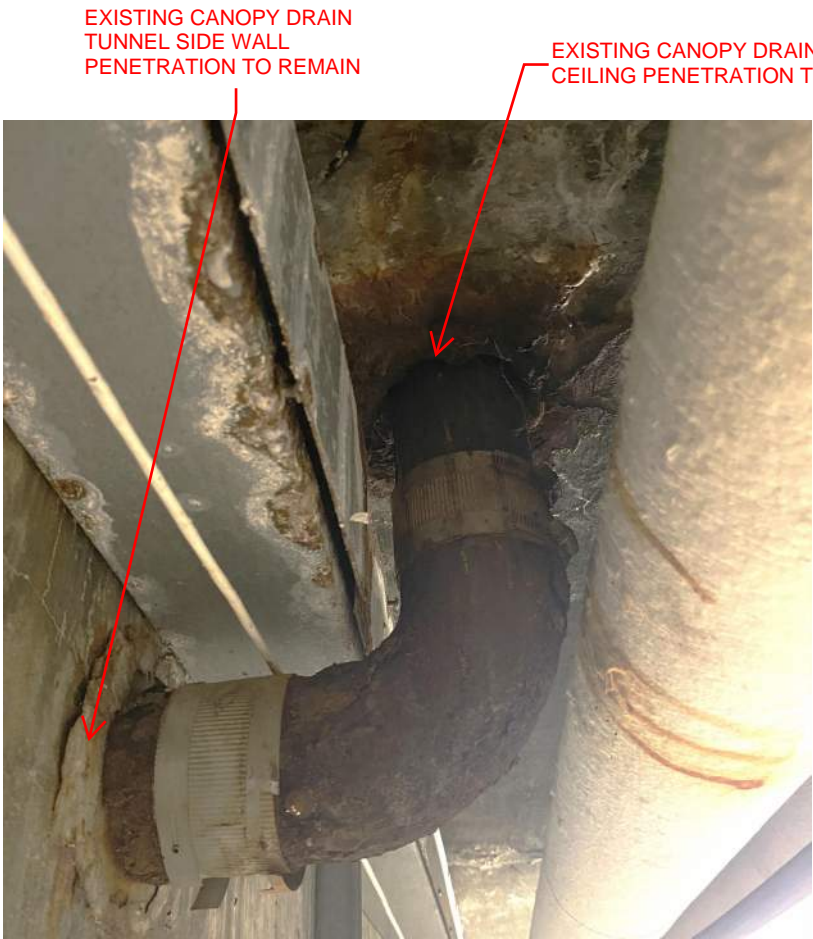


**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT SECTION - CONFIGURATION 2**

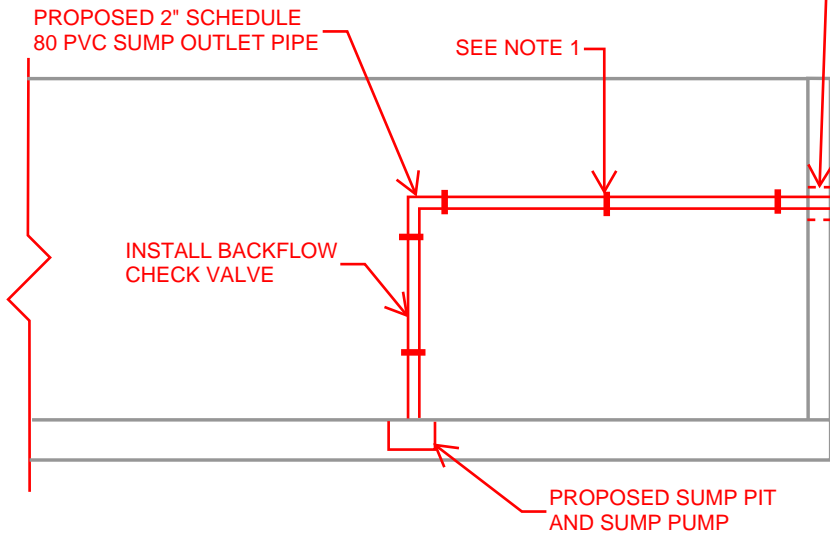
NOTES:

1. SCHEDULE 80 PVC 2" DRAIN PIPE SHALL BE SUPPORTED BOTH HORIZONTALLY AND VERTICALLY USING GALVANIZED SPLIT RING HANGERS WITH MINIMUM 3/8" RODS FASTENED TO CONCRETE STRUCTURE, OR AS APPROVED BY THE RESIDENT. HANGERS SHALL BE SPACED NO FURTHER THAN 48" APART AND WITHIN 12" OF A CHANGE OF DIRECTION.

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No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.				CONTRACT: 2026.22							
				By	Date	By	Date	SHEET NUMBER: S-09				11 OF 19							
				Designed	KJK 09/25	Checked	BRG 09/25												
				Drawn	KJK 09/25	In Charge of	TRC 09/25												



EXISTING WEST GARDINIER CANOPY DRAIN ELEVATION



PROPOSED SUMP PIT SCHEMATIC

IF THE CMU BLOCK WALL IS CONSTRUCTED WITH HOLLOW CORE BLOCKS, THE CONTRACTOR SHALL INSTALL A STEEL SLEEVE BETWEEN THE CMU BLOCK WALL AND THE LINK SEAL. THE STEEL SLEEVE SHALL BE SEALED TO THE CMU WALL PER MANUFACTURERS RECOMMENDATIONS AND AS DIRECTED BY THE RESIDENT

PROPOSED SUMP PIT AND SUMP PUMP. FINAL LOCATION SHALL BE FIELD DETERMINED BY THE RESIDENT AND MAINE TURNPIKE AUTHORITY, SEE SCHEMATIC BELOW FOR MORE INFORMATION

DAYLIGHT PROPOSED 2" SCHEDULE 80 PVC DRAIN LINE INTO EXISTING DRAINAGE DITCH

CORE THROUGH EXISTING CONCRETE TUNNEL END WALL AT AN ELEVATION AGREED UPON BY THE RESIDENT TO PROVIDE POSITIVE DRAINAGE TO DAYLIGHT. INSTALL LINK SEAL WITH STAINLESS STEEL HARDWARE BETWEEN CONCRETE AND PROPOSED PVC PIPE

ELEVATION OF THE CORE TO BE COORDINATED WITH THE RESIDENT

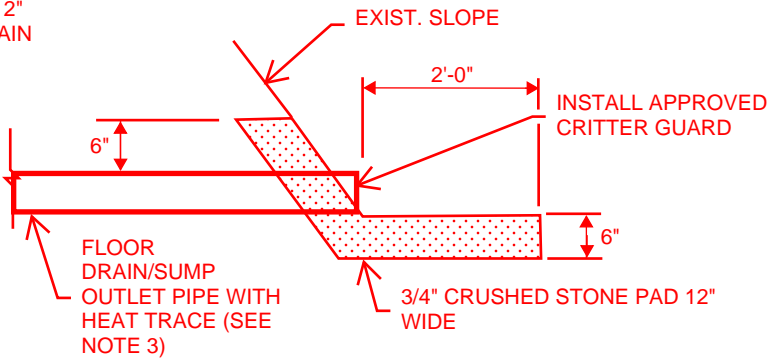
CORE THROUGH TUNNEL END WALL

EXISTING LADDER AND TUNNEL HATCH

INSTALLATION OF THE PROPOSED SUMP PIT, SUMP PUMP AND DRAINAGE LINES SHALL NOT INTERFERE WITH ACCESS TO THE EXISTING LADDER



PROPOSED SUMP PIT



OUTLET PIPE END TREATMENT

- NOTES:
1. SCHEDULE 80 PVC 2" DRAIN PIPE SHALL BE SUPPORTED BOTH HORIZONTALLY AND VERTICALLY USING GALVANIZED SPLIT RING HANGERS WITH MINIMUM 3/8" RODS FASTENED TO CONCRETE STRUCTURE, OR AS APPROVED BY THE RESIDENT. HANGERS SHALL BE SPACED NO FURTHER THAN 48" APART AND WITHIN 12" OF A CHANGE OF DIRECTION.
 3. ALL REQUIRED 90 DEGREE BENDS SHALL BE LONG SWEEP. CONTRACTOR SHALL ELIMINATE BENDS IN PIPING TO THE EXTENT PRACTICAL.
 2. SUMP PUMP - PROVIDE 20A, 120V CIRCUIT FROM PANEL HP2, PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED 18" AFF. COORDINATE FINAL RECEPTACLE LOCATION ON SITE PRIOR TO ROUGH IN.
 3. HEAT TRACE SHALL BE COMMERCIAL GRADE, SHALL BE PLACED AT THE FLOOR DRAIN OUTLET PIPE AND INCLUDED IN THE SYSTEM DESIGN (TO INCLUDE MATERIALS TO BE USED) SUBMITTED FOR REVIEW AND APPROVAL.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.			
	By	Date	
Designed	KJK	09/25	Checked BRG 09/25
Drawn	KJK	09/25	In Charge of TRC 09/25

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.

WEST GARDINER & NEW GLOUCESTER
TOLL PLAZA TUNNEL REPAIRS
CANOPY DRAIN MODIFICATION DETAILS V

CONTRACT: 2026.22

SHEET NUMBER: S-10

12 OF 19




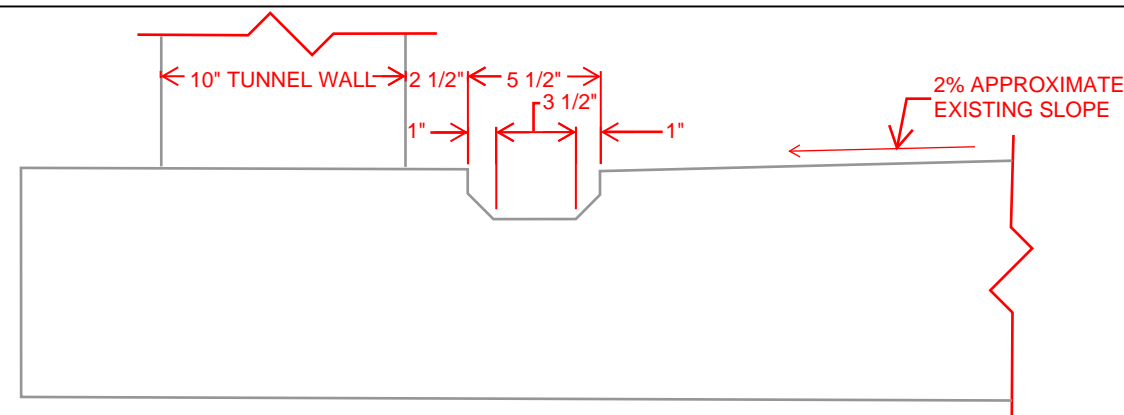
CAP AND SEAL ALL EXISTING TUNNEL SIDE WALL PENETRATIONS FROM THE ORIGINAL PLAZA THAT ARE NOT IN USE WITH END OF PIPE PLUG WITH WING NUT AT THE DIRECTION OF THE RESIDENT

ALL REMAINING DRAIN PIPES FROM THE ORIGINAL PLAZA THAT ARE NOT IN USE SHALL BE REMOVED AT THE DIRECTION OF THE RESIDENT, LOCATION IS APPROXIMATELY MID-TUNNEL

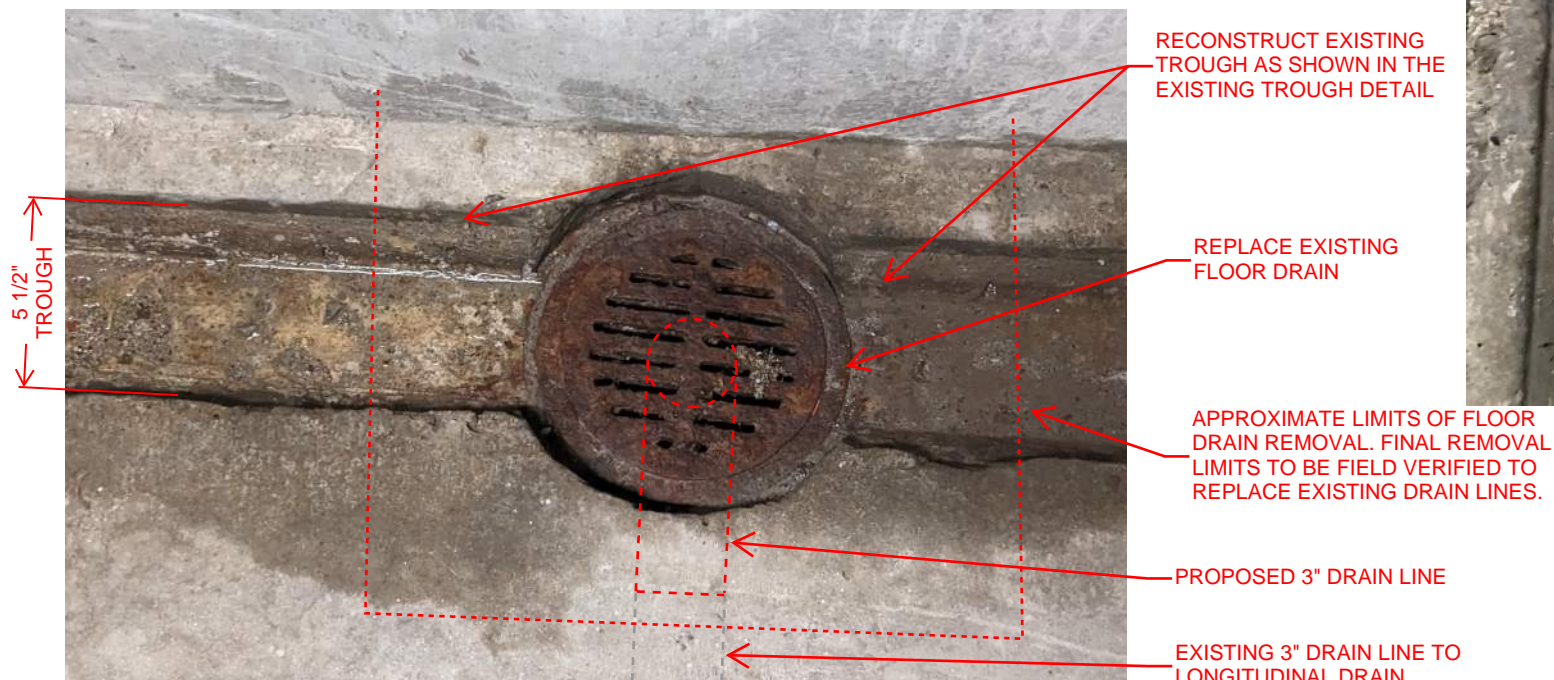


MISCELLANEOUS DRAINAGE DETAILS

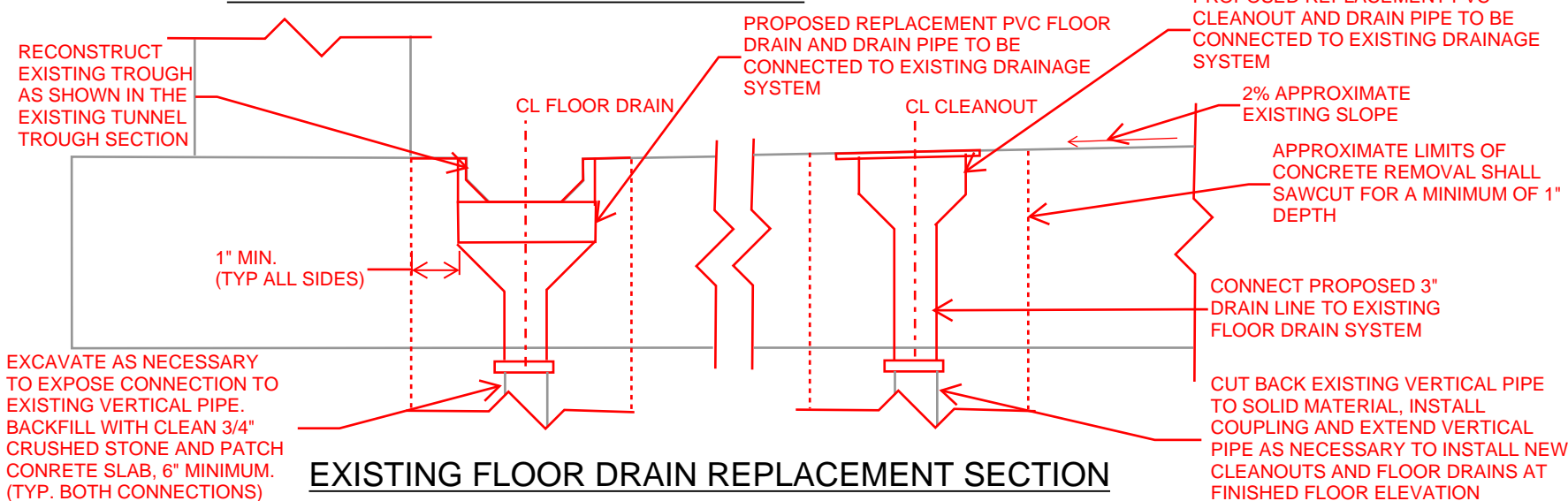
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No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.								SHEET NUMBER: S-11			
					By	Date		By	Date	CONTRACT: 2026.22					
				Designed	KJK	09/25	Checked	BRG	09/25	13 OF 19					
				Drawn	KJK	09/25	In Charge of	TRC	09/25						



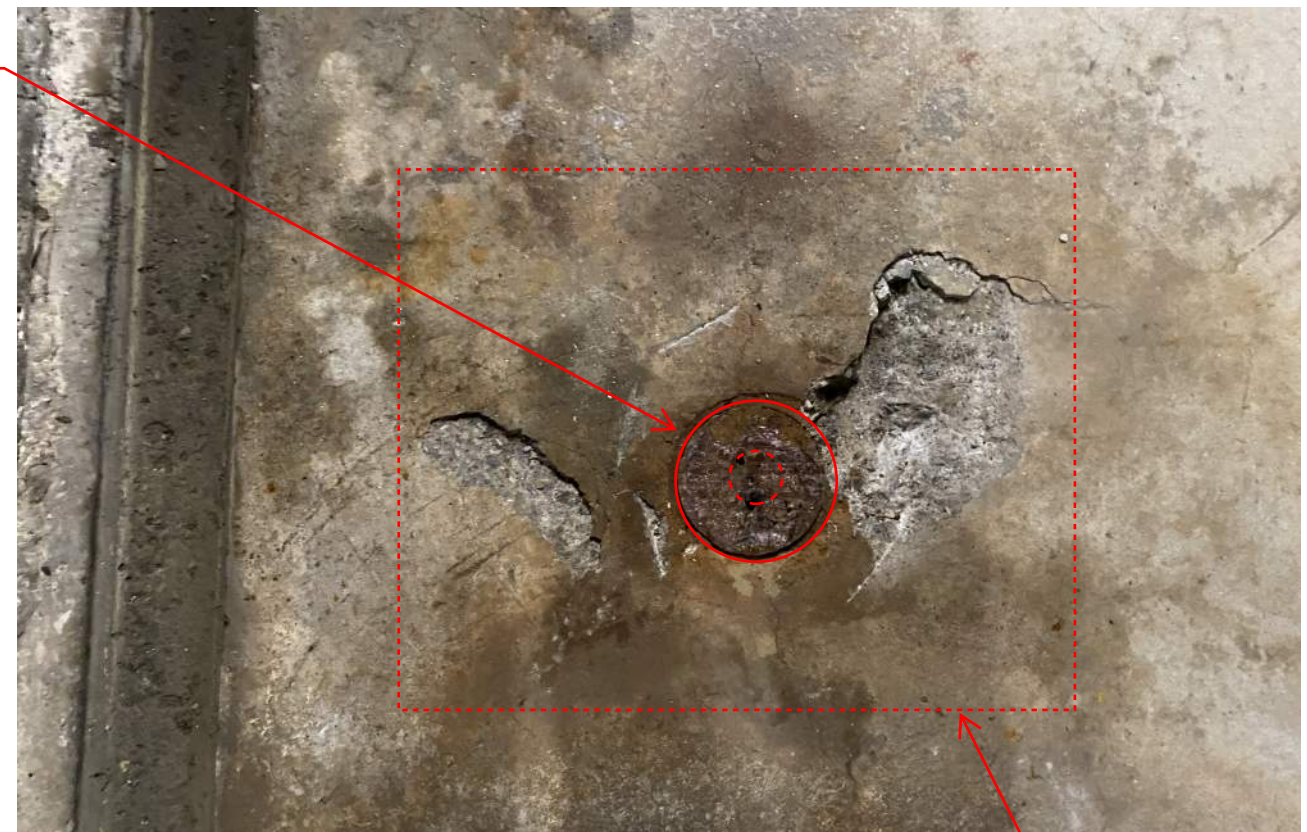
EXISTING TUNNEL TROUGH SECTION



FLOOR DRAIN REPLACEMENT PLAN



EXISTING FLOOR DRAIN REPLACEMENT SECTION



CLEANOUT REPLACEMENT PLAN



EXISTING FLOOR DRAIN DETAIL

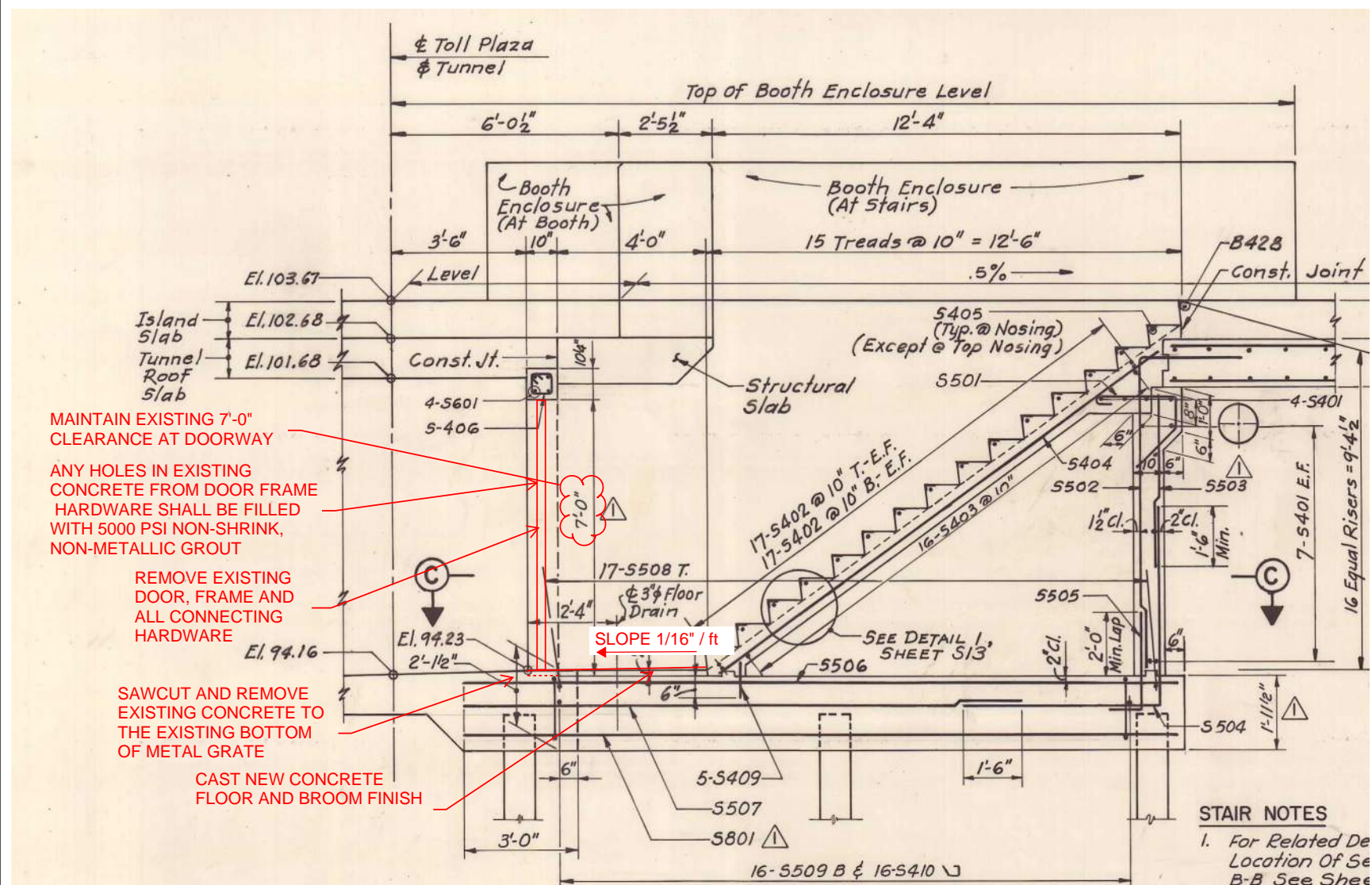
APPROXIMATE LIMITS OF FLOOR DRAIN REMOVAL. FINAL REMOVAL LIMITS TO BE FIELD VERIFIED TO REPLACE EXISTING DRAIN LINES AND SHALL ENCOMPASS ALL AREAS OF SPALLED AND DELAMINATED CONCRETE

FLOOR DRAIN CONNECTION TO EXISTING 3\"/>

NOTES:

1. PRIOR TO REPLACEMENT OF THE FLOOR DRAINS AND CLEANOUTS, ALL PIPES SHALL BE CLEANED AND DESCALED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. PIPES SHALL THEN BE SEALED WITH 2 COATS OF PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL.

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No.	Revision	By	Date																
				CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.															
				Designed	By	Date	Checked	By	Date										
				Drawn	KJK	09/25	In Charge of	BRG	09/25										
								TRC	09/25										
								MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.				CONTRACT: 2026.22							
												SHEET NUMBER: S-12							
												14 OF 19							



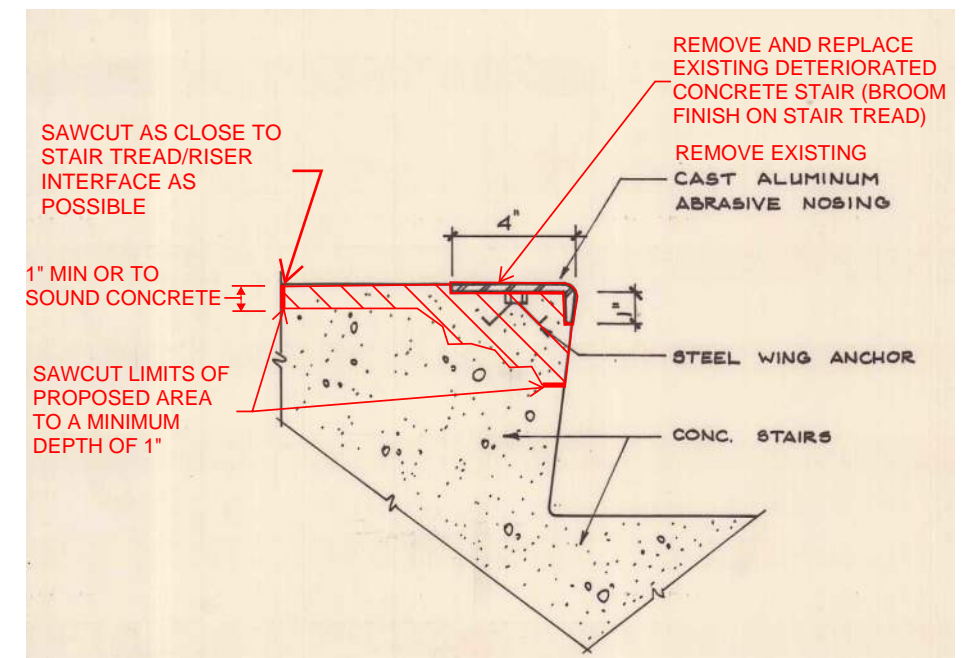
WEST GARDINIER STAIRWELL LANDING SECTION

(SEE WEST GARDINER STAIRWELL LANDING
PHOTOS ON SHEET S-14 FOR ADDITIONAL DETAILS)

NOTE:

1. STAIRWELL NOSING REPAIRS ARE REQUIRED ONLY AT THE STAIRWELLS TO REMAIN OPEN. CAPPED STAIRWELLS NEED NOT BE REPAIRED.

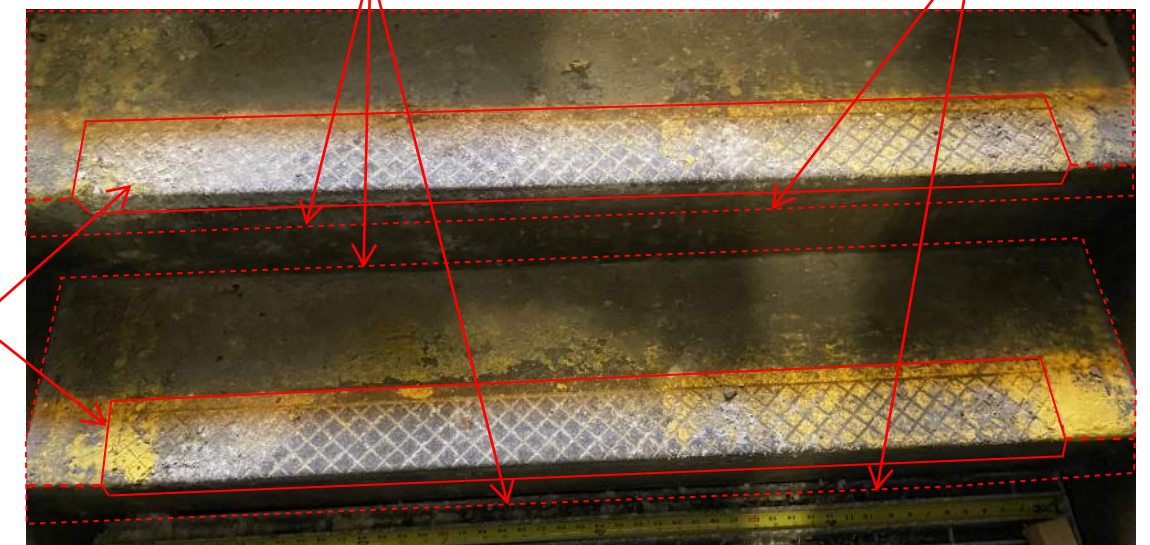
2. STAIRWELL LANDING SLOPE REPAIRS ARE REQUIRED AT ALL STAIR LOCATIONS, BOTH CAPPED AND ENCLOSURE ENTRANCE, EXCEPT AS DESCRIBED IN NOTE 1 ON SHEET S-15.



STAIRWELL NOSING REPAIR SECTION

APPROXIMATE CONCRETE REMOVAL AREA. FINAL REMOVAL AND REPAIR AREAS SHALL BE DETERMINED BY THE RESIDENT AND SHALL INCLUDE ALL AREAS OF CONCRETE DETERIORATION, SPALLING AND DELAMINATION.

SAWCUT LIMITS OF
PROPOSED AREA
TO A MINIMUM
DEPTH OF 1"



EXISTING CAST ALUMINUM
ABRASIVE NOSING TO BE
REMOVED

STAIRWELL NOSING REPAIR ELEVATION

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No.	Revision			By	Date														
								CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.											
						By	Date			By	Date								
					Designed	KJK	09/25		Checked	BRG	09/25								
					Drawn	KJK	09/25		In Charge of	TRC	09/25								
								MTA PROJECT MANAGER: KRISTI VAN Ooyen, P.E.				SHEET NUMBER: S-13							
												CONTRACT: 2026.22							
												15 OF 19							



WEST GARDINER STAIRWELL LANDING
REPAIR PLAN

- ANY HOLES IN EXISTING CONCRETE FROM DOOR FRAME HARDWARE SHALL BE FILLED WITH 5000 PSI NON-SHRINK, NON-METALLIC GROUT
- REMOVE EXISTING DOOR, FRAME AND ALL CONNECTING HARDWARE
- REMOVE EXISTING DEBRIS FROM CONCRETE SURFACE
- EXISTING 3" DIA. FLOOR DRAIN
- REMOVE EXISTING METAL GRATE
- REMOVE FLOOR DRAIN GRATE AND CAP FLOOR DRAIN TO PREVENT CONCRETE FROM ENTERING THE PIPE
- ROUGHEN CONCRETE SURFACE TO 1/4" AMPLITUDE AND CLEAN THE SURFACE TO REMOVE ANY DEBRIS PRIOR TO CONCRETE PLACEMENT



WEST GARDINER STAIRWELL LANDING
REPAIR ELEVATION



ANY HOLES IN EXISTING CONCRETE FROM DOOR FRAME HARDWARE SHALL BE FILLED WITH 5000 PSI NON-SHRINK, CEMENTITIOUS GROUT

REMOVE EXISTING DOOR, FRAME AND ALL CONNECTING HARDWARE

SEE NOTE 1

NOTES:

1. THE EXISTING LANDINGS AT THE NEW GLOUCESTER TOLL PLAZA HAVE BEEN PREVIOUSLY REPAIRED TO REMOVE THE EXISTING GRATING AND PLACE A CONCRETE SLAB. THE EXISTING 3" DIA. FLOOR DRAIN AT THE STAIR LANDING SHALL BE CLEANED AND DESCALED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. IF THE RESIDENT DETERMINES THAT THERE IS ADEQUATE FLOW AT THIS FLOOR DRAIN, THE PIPES SHALL THEN BE SEALED WITH 2 COATS OF PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL. IF IT IS DETERMINED BY THE RESIDENT THAT THERE IS INADEQUATE OR NO DRAINAGE THROUGH THIS PIPE, THEN THE EXISTING FLOOR DRAIN AND CONCRETE LANDING SLAB SHALL BE REMOVED AND REPAIRED AS SHOWN ON THE WEST GARDINIER STAIRWELL LANDING DETAILS.

NEW GLOUCESTER STAIRWELL LANDING
REPAIR ELEVATION

Scale:			
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	By	Date		By	Date
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Drawn	KJK	09/25	In Charge of	TRC	09/25

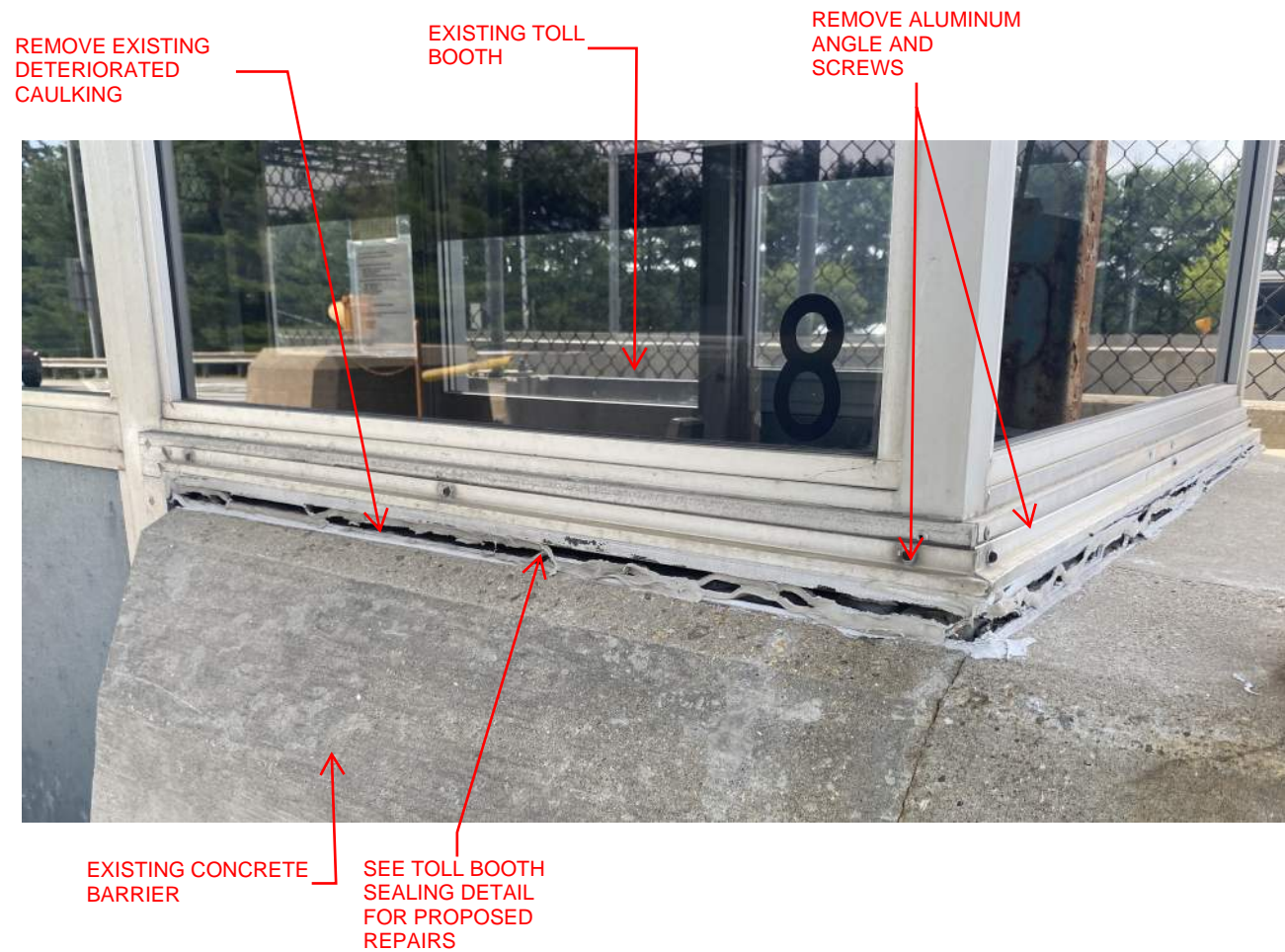
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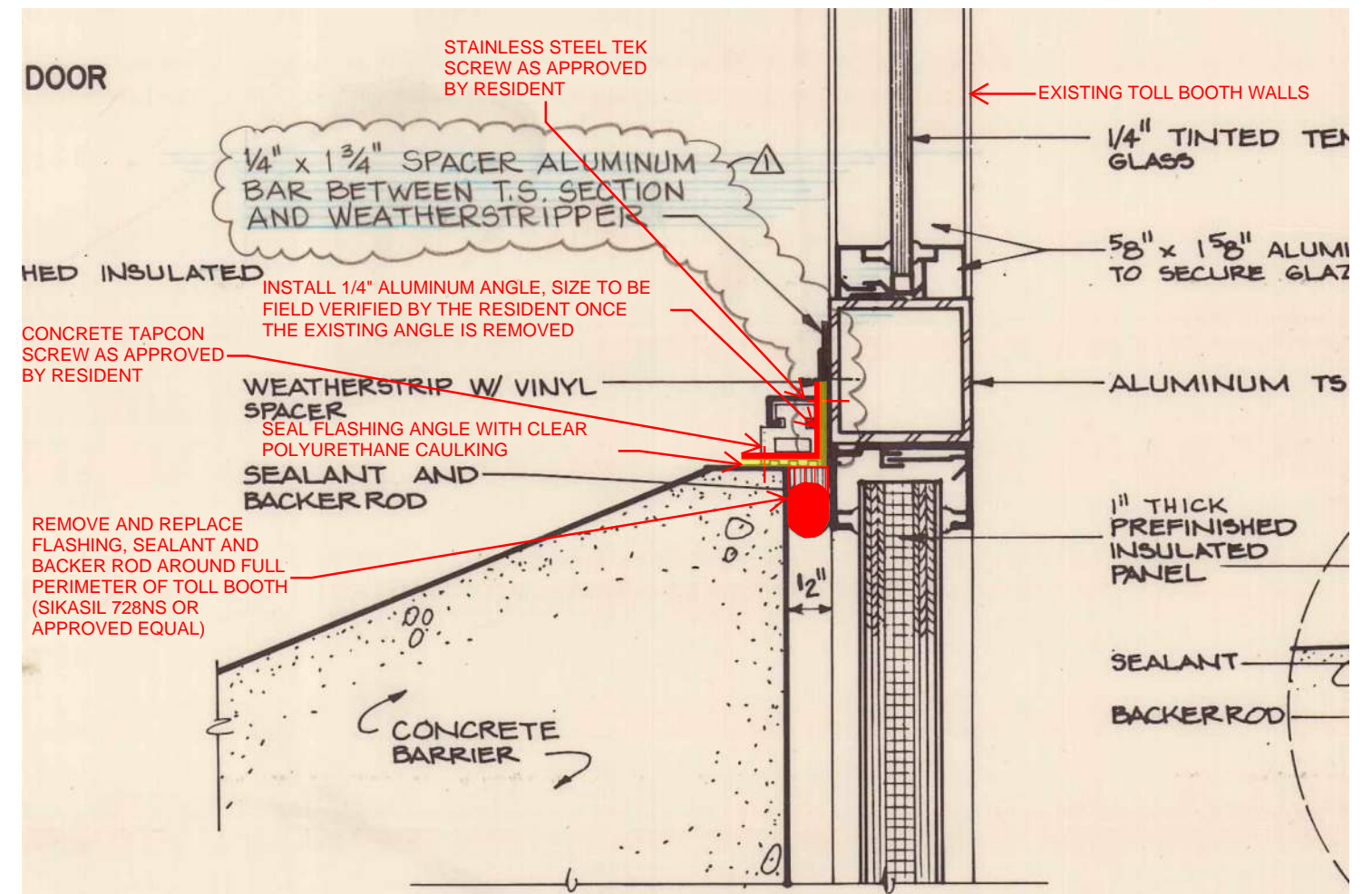
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.

WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS STAIR REPAIR DETAILS III	
SHEET NUMBER: S-15	
CONTRACT: 2026.22	17 OF 19

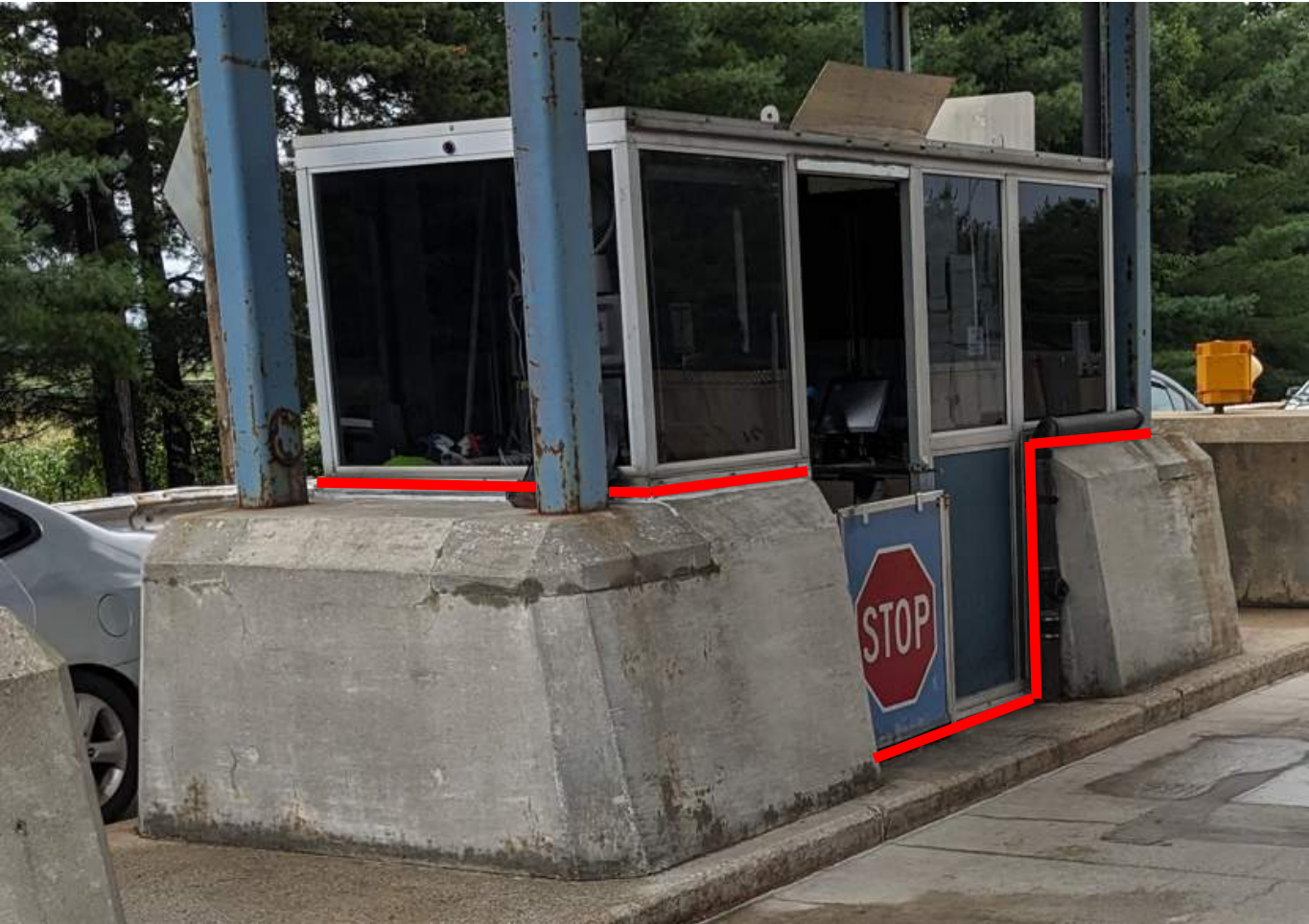
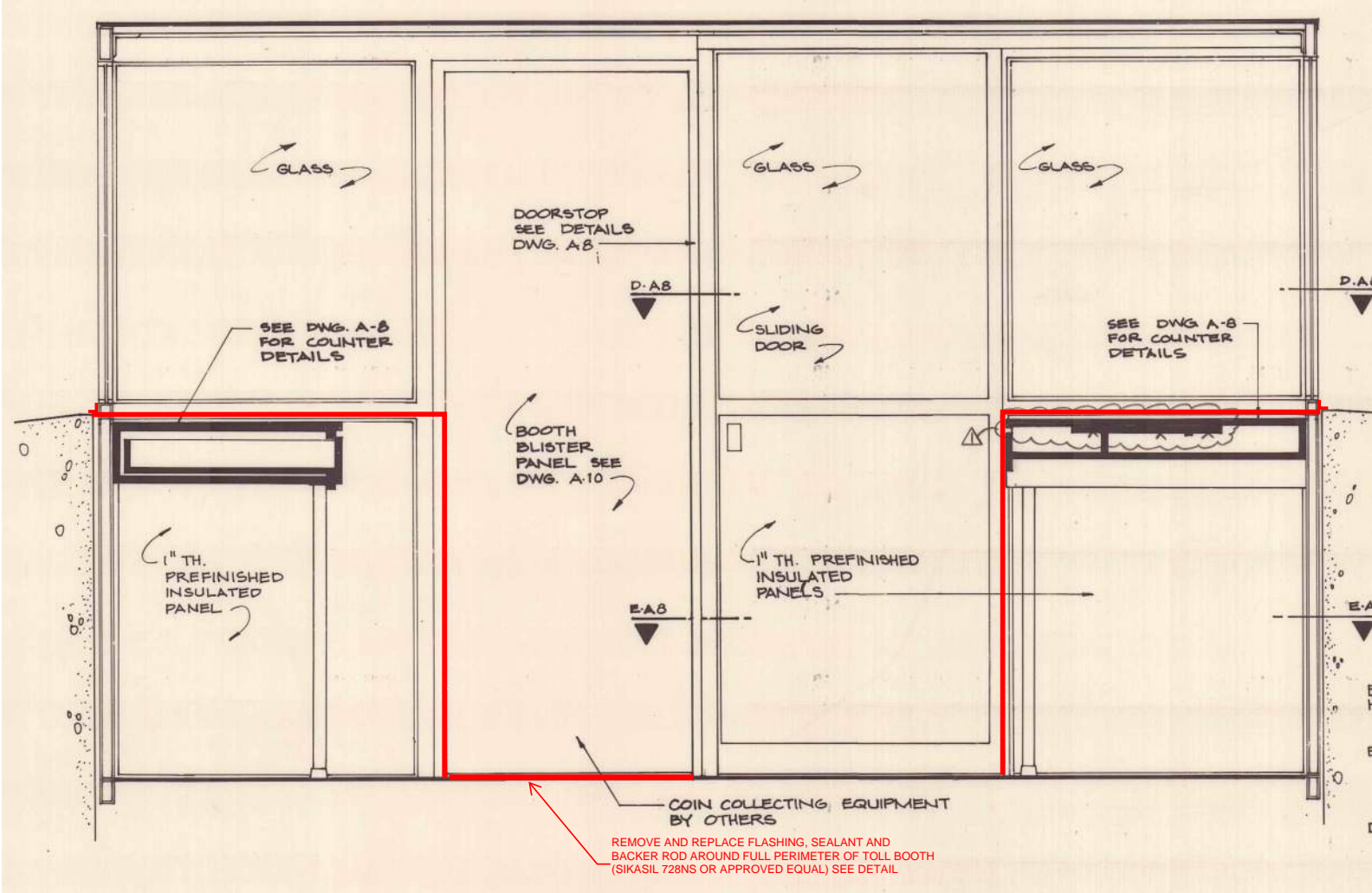


TOLL BOOTH SEALING ELEVATION



TOLL BOOTH SEALING DETAIL

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No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.															SHEET NUMBER: S-16				
					By	Date	Checked	By	Date	MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.					CONTRACT: 2026.22								
				Designed	KJK	09/25	BRG		09/25						18 OF 19								
				Drawn	KJK	09/25	In Charge of	TRC	09/25														



TOLLBOOTH SEALING ELEVATION

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: HNTB					
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	By	Date		By	Date
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Drawn	KJK	09/25	In Charge of	TRC	09/25

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	THE GOLD STAR MEMORIAL HIGHWAY	
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WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS TOLL BOOTH SEALING DETAILS II	
CONTRACT: 2026.22	SHEET NUMBER: S-17 19 OF 19