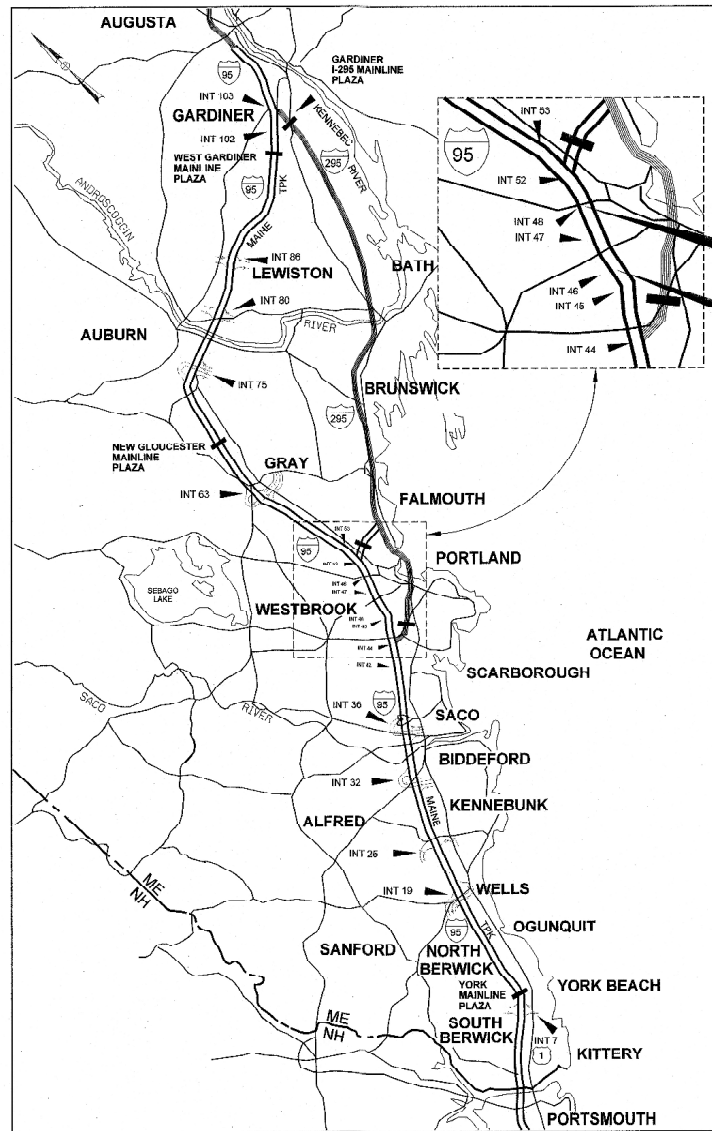


Date: 8/31/2021



LOCATION MAP



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

CONTRACT 2021.08
 PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3

DANIEL E. WATHEN, CHAIR
 ROBERT D. STONE, VICE CHAIR
 MICHAEL J. CIANCHETTE, MEMBER
 ANN R. ROBINSON, MEMBER
 THOMAS J. ZUKE, MEMBER
 JANE LINCOLN, MEMBER
 BRUCE VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT: 2021.08 PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 46.4 TO MM 49.3

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CONTRACT: 2021.08

APPROVED:
MAINE TURNPIKE AUTHORITY

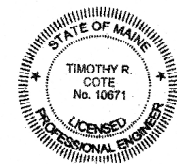
Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER

09-01-21
DATE

Stephen R. Bartre
 STEPHEN R. BARTRE, P.E. - CHIEF ENGINEER/DIRECTOR OF ENGINEERING

9/2/21
DATE

HNTB



Timothy R. Cote
 TIMOTHY R. COTE, P.E.
 VICE PRESIDENT

9/1/2021
DATE

Date: 9/8/2021


ESTIMATED QUANTITIES						
ITEM NO	DESCRIPTION	NORTHBOUND BARREL	MEDIAN	SOUTHBOUND BARREL	TOTAL QUANTITY	UNIT
652.46	TEMPORARY PORTABLE RUMBLE STRIP	18		18	36	UNIT
652.47	SEQUENTIAL FLASHING WARNING LIGHTS		PROJECT QUANTITY		100	EA
656.50	BALED HAY, IN PLACE	10		10	20	EA
656.60	TEMPORARY BERMS	100		100	200	LF
656.632	30 INCH TEMPORARY SILT FENCE	11,300		12,100	23,400	LF
659.10	MOBILIZATION		PROJECT QUANTITY		1	LS

Filename: PAW2_EQ_Plan_02.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	CAV	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 ESTIMATED QUANTITIES (2 of 2)

SHEET NUMBER: EQ-02
 CONTRACT: 2021.08
 3 OF 376

Date: 9/8/2021

Filename: PAW2_ES_Plans_01.dgn

COMMON EXCAVATION FOR ESTIMATE	SOUTHBOUND BARREL		NORTHBOUND BARREL		PHASE 1 TOTAL	MEDIAN (PHASE 2)			
COMMON EXCAVATION (FROM CROSS SECTIONS)	54,759		50,457			19,985			
GRUBBING IN FILL	1,205		1,008			0			
MUCK EXCAVATION	312		107			0			
CULVERT INLET AND OUTLET DITCHES (NOT COVERED BY X-SECTIONS)	140		1,160			140			
TOTAL COMMON EXCAVATION (FOR ESTIMATE)		56,416		52,732	109,148		20,125		
FILL FOR BORROW CALCULATIONS									
COMMON FILL (FROM CROSS SECTIONS)	5,960		6,596			1,019			
COMMON FILL (FROM BRIDGE)	0		0			0			
GRUBBING IN FILL	1,205		1,008			0			
MUCK	0		0			0			
TOTAL FILL		7,165		7,604	14,769		1,019		
ROCK EXCAVATION FOR ESTIMATE									
ROCK EXCAVATION (FROM CROSS SECTIONS)	5,420		7,130			943			
TOTAL ROCK EXCAVATION		5,420		7,130	12,550		943		
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS									
(1) TOTAL COMMON EXCAVATION		56,416		52,732	109,148		20,125		
ALL DEDUCTIONS:									
GRUBBING IN CUT	7,754		8,591			0			
GRUBBING IN FILL	1,205		1,008			0			
MUCK EXCAVATION	312		107			0			
PAVEMENT SALVAGE (CUT AND FILL)	5,816		5,291			3,519			
(2) TOTAL DEDUCTIONS		15,087		14,997	30,084		3,519		
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		41,329		37,735	79,064		16,606		
TOTAL AVAILABLE STRUCT. EXCAVATIONS (UNDERDRAIN ONLY)		0		0			2,871		
TOTAL AVAILABLE STRUCT. EXCAVATIONS (BRIDGE)		125		255			0		
RIPRAP EXCAVATION (1/2 USABLE)		45		120			0		
TOTAL AVAILABLE NON-ROCK EXCAVATION		41,499		38,110	79,609		19,477		
COMPUTATION OF WASTE STORAGE & WASTE MATERIAL									
TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)		927		557	1,484		0		
GRUBBING IN CUT	7,754		8,591			0			
GRUBBING IN FILL	1,205		1,008			0			
MUCK EXCAVATION	312		107			0			
RIPRAP EXCAVATION (1/2 WASTE)	45		120			0			
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)		927		557	1,484		0		
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)		8,389		9,269	17,658		0		
COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE									
GRANULAR BORROW TO REPLACE MUCK	312		107			0			
GRANULAR BORROW TO REPLACE PEAT	0		0			0			
GRANULAR BORROW IN LOW WET AREAS	0		0			0			
GRANULAR BORROW FOR EMBANKMENT CONSTRUCTION NEAR BOX CULVERTS	0		0			0			
GRANULAR BORROW TO MAINTAIN TRAFFIC	0		0			0			
GRANULAR BORROW FOR UNDERCUTTING	0		0			0			
GRANULAR BORROW FOR CULVERT BEDDING	0		0			0			
TOTAL GRANULAR BORROW		312		107	419		0		
COMPUTATION FOR COMMON BORROW FOR ESTIMATE									
(3) TOTAL FILL		7,165		7,604	14,769		1,019		
TOTAL AVAILABLE NON-ROCK EXCAVATION	41,499	x 0.90 =	37,349	38,110	x 0.90 =	34,299	19,477	x 0.90 =	17,529
TOTAL AVAILABLE ROCK EXCAVATION	5,420	x 1.30 =	7,046	7,130	x 1.30 =	9,270	943	x 1.30 =	1,226
TOTAL AVAILABLE STRUCTURAL ROCK EXCAVATION	0	x 1.30 =	0	0	x 1.30 =	0	0	x 1.30 =	0
TOTAL WASTE MATERIAL TO BE UTILIZED	927	x 0.90 =	834	557	x 0.90 =	501	0	x 0.90 =	0
(4) TOTAL AVAILABLE EXCAVATION			45,229			44,070			18,755
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION			-38,064			-36,466			-17,736
IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL PLUS TOTAL WASTE MATERIAL TO BE WASTED			46,453			45,735			17,736
SURPLUS MATERIAL			46,453 CY			45,735 CY			17,736 CY

Scale: NOT TO SCALE				
No.	Revision	By	Date	

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	CAV	09\21	Checked	PJS	09\21
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
EARTHWORK SUMMARY

SHEET NUMBER: ES-01
CONTRACT: 2021.08
4 OF 376

Date: 9/8/2021

Filename: P:AW2_General Notes.dgn

GENERAL NOTES:

- ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES LATEST REVISION AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. LATEST REVISION, UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- GEOTECHNICAL INFORMATION EITHER FURNISHED OR REFERENCED IN THIS PLAN SET IS FOR THE BIDDER'S AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR THE INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
- THE GEOTECHNICAL DESIGN REPORT, INCLUDING TEST BORING LOGS TITLED PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS, MAINE TURNPIKE, GEOTECHNICAL DESIGN REPORT MAY BE ACCESSED AT THE MAINE TURNPIKE AUTHORITY WEB ADDRESS: WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS.
- TREE CLEARING IS NOT ALLOWED FROM JUNE 1 TO JULY 31.
- CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND MICROSTATION FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, CONCRETE BARRIER, GUARDRAIL, CULVERTS, MEDIAN DRAINAGE, FOUNDATIONS, WIRING, SIGNS, ETC.
- CONTRACTOR SHALL NOTE THAT THE MAINE TURNPIKE NORTHBOUND AND SOUTHBOUND TRAVELWAYS ARE NOT AT THE SAME ELEVATION.
- MEDIAN BARRIER EMBEDMENT AND TOTAL HEIGHT IS NOT TO SCALE ON CROSS SECTIONS. CONTRACTOR SHALL SEE BARRIER DETAIL SHEETS FOR THIS INFORMATION.

EARTHWORK AND PAVEMENT NOTES:

- THE NORMAL GRUBBING WIDTH IN THE FILLS WHEN SUBGRADE IS LESS THAN 5' ABOVE EXISTING GROUND SHALL BE VARIABLE LEFT OR RIGHT. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6' IN FIELD AREAS AND 1' IN WOODED AREAS.
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE AND IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P, EXCAVATIONS, OF 29 CFR PART 1926.650-652 AND APPENDICES.
- REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 10".
- CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT. THE ACTUAL CLEARING LINES SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE.
- EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS SHOWN IN THE DETAILS OR AS DIRECTED BY THE RESIDENT.
- INTERPRETIVE ROCK SURFACES ARE SHOWN IN THE PLANS. ADDITIONAL INFORMATION ON ROCK SURFACES CAN BE FOUND IN THE FINAL GEOTECHNICAL DESIGN REPORT.
- ROCK SHALL BE EXCAVATED 1' BELOW SUBGRADE AND GRADED TO DAYLIGHT TO AVOID PONDING.
- MUCK EXCAVATION DEPTH HAS BEEN ESTIMATED AT 18".

GUARDRAIL NOTES:

- AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL ITEMS, UNLESS NOTED OTHERWISE.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS, UNLESS OTHERWISE NOTED.
- ALL GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND ELECTRICAL CONDUITS.
- HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE INCIDENTAL TO THE GUARDRAIL ITEMS.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS SHALL BE REMOVED AND RESET. PAYMENT WILL BE MADE UNDER ITEM 606.356I DELINEATOR POST-REMOVE AND RESET.
- W-BEAM GUARDRAIL EXISTS ON THE PROJECT SITE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING W-BEAM GUARDRAIL THAT IS WITHIN THE MEDIAN OR WIDENING AREA UNLESS NOTED OTHERWISE.

- ALL END TERMINALS AND ATTENUATORS MANUFACTURED AFTER DECEMBER 31, 2019 SHALL MEET THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THIS CONTRACT'S FINAL PAVEMENT SURFACE. THIS WILL RESULT IN A HEIGHT OF 30 1/2" ABOVE A FUTURE 1 1/2" OVERLAY INSTALLED BY OTHERS.

ROCK EXCAVATION NOTES:

- BLAST DESIGN SHALL KEEP THE DIRECTION OF SHOT PARALLEL TO THE ROADWAY.
- THE CONTRACTOR SHALL LIMIT VIBRATION FROM ROCK EXCAVATION AS REQUIRED BY SPECIFICATION SECTION 105.2.7 AND AS REQUIRED BY UTILITY OWNERS. THE CONTRACTOR SHALL SELECT THEIR MEANS AND METHODS TO MEET THESE VIBRATION REQUIREMENTS.

UTILITY NOTES:

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY 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.
- ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.
- THE UTILITIES INVOLVED IN THIS CONTRACT ARE:

BUCKEYE PIPELINE
 CENTRAL MAINE POWER
 CHARTER COMMUNICATIONS
 CITY OF PORTLAND
 CONSOLIDATED COMMUNICATIONS
 CROWN CASTLE FIBER NETWORKS
 FIRSTLIGHT FIBER
 GRANITE STATE GAS
 MAINECOM
 MAINE TURNPIKE AUTHORITY LIGHTING
 MCI WORLD COMMUNICATIONS
 PORTLAND FIRE DEPARTMENT
 PORTLAND PIPELINE
 PORTLAND WATER DISTRICT
 UNITIL

- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED THEIR UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE UTILITY LOCATIONS.

DRAINAGE NOTES:

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT. ABANDONED STRUCTURES TO REMAIN SHALL BE PLUGGED WITH BRICK AND MORTAR (INCIDENTAL TO 604 ITEMS) AND FILLED WITH PUMPED GROUT FILL (ITEM 602.40).
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL.
- ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CULVERT ITEMS.
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CATCH BASIN ITEMS.
- EXISTING CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 604.182 CLEANING EXISTING CATCH BASIN AND MANHOLE. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR). POST CONSTRUCTION, ALL EXISTING DRAINAGE TO REMAIN AND NEW DRAINAGE SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).
- ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
- EXISTING CMP PIPE ENDS SHALL BE REMOVED TO THE RCP CORE AND REPLACED WITH SAME SIZE AND TYPE PIPE LISTED FOR ALL PIPE EXTENSIONS.


- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING CONSTRUCTION AS NEEDED FOR TEMPORARY USE, PRIOR TO PROPOSED DRAINAGE SYSTEMS BEING FUNCTIONAL AS IDENTIFIED ON PLANS.
- CATCH BASIN GRATES THAT WILL CARRY TRAFFIC DURING MOT OPERATIONS SHALL BE SECURED AS NOTED IN THE SPECIAL PROVISIONS.

EROSION CONTROL NOTES:


- THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. 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 UNDER THE APPROPRIATE BID ITEMS.
- 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.
- ALL NON-ROCK SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 2.
- MULCH SHALL BE APPLIED IN SEEDED AREAS, EXCEPT WHERE EROSION CONTROL BLANKET IS SPECIFIED.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
- TEMPORARY BERMS ARE ANTICIPATED AT ALL STONE DOWNSPOUT LOCATIONS WHILE GROWTH IS BEING ESTABLISHED ON SIDE SLOPES AND PRIOR TO RIPRAP INSTALLATION.
- TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND 2:1 SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE OR AS DESIGNATED BY THE RESIDENT.
- PLACE A 2' WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ON THE SIDE SLOPES ALONG THE TOP OF THE RIPRAP AND BEHIND THE WINGWALLS.
- TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING TEMPORARY MULCH AS NECESSARY, IN ACCORDANCE WITH THE LATEST EDITION OF THE BMP'S, TO MINIMIZE SOIL EROSION PRIOR TO THE APPLICATION OF THE FINAL SLOPE TREATMENT.
- TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
- A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS, OR AS DIRECTED BY RESIDENT. AN ADDITIONAL QUANTITY IS INCLUDED FOR LOCATIONS NOT SPECIFICALLY SHOWN.
- TEMPORARY STONE CHECK DAMS SHALL BE PLACED IN THE EXISTING DITCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.

LIGHTING NOTES:

- ALL PERMANENT WIRING SHALL BE COPPER AND WILL BE INCIDENTAL TO THE CONDUIT.
- ALL RESET LIGHT STANDARDS SHALL INCLUDE NEW BREAKAWAY COUPLINGS AND MOUNTING HARDWARE. PAYMENT FOR BREAKAWAY COUPLINGS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD.
- ALL USABLE EXISTING PRECAST FOUNDATIONS SHALL BE STACKED AT THE CROSBY MAINTENANCE FACILITY. PAYMENT FOR STACKING OF FOUNDATIONS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD OR REMOVE AND STACK LIGHT STANDARD.
- THE CONTRACTOR SHALL VERIFY LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY LIGHTING COMPONENTS.
- ALL NEW OR RESET LIGHT STANDARDS SHALL BE PLACED ON NEW 24" FOUNDATIONS.
- BREAKAWAY COUPLINGS ARE REQUIRED FOR ALL PERMANENT LIGHT POLES.
- EXISTING LIGHTING STANDARDS WILL VARY THROUGHOUT THE PROJECT. ALL LIGHTING STANDARDS WILL BE TEMPLATED TO ENSURE THE CORRECT BOLT PATTERN IS USED FOR EACH PROPOSED FOUNDATION.
- LOCATION OF ELECTRICAL CONDUIT IS SCHEMATIC ONLY.
- RAMP LIGHTING SHALL BE MAINTAINED AT ALL TIMES.

Scale:		Designed by:			
NOT TO SCALE					
No.	Revision				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.	
		By	Date	By	Date
		Designed	ALZ 09\21	Checked	PJS 09\21
		Drawn	GW 09\21	In Charge of	TRC 09\21

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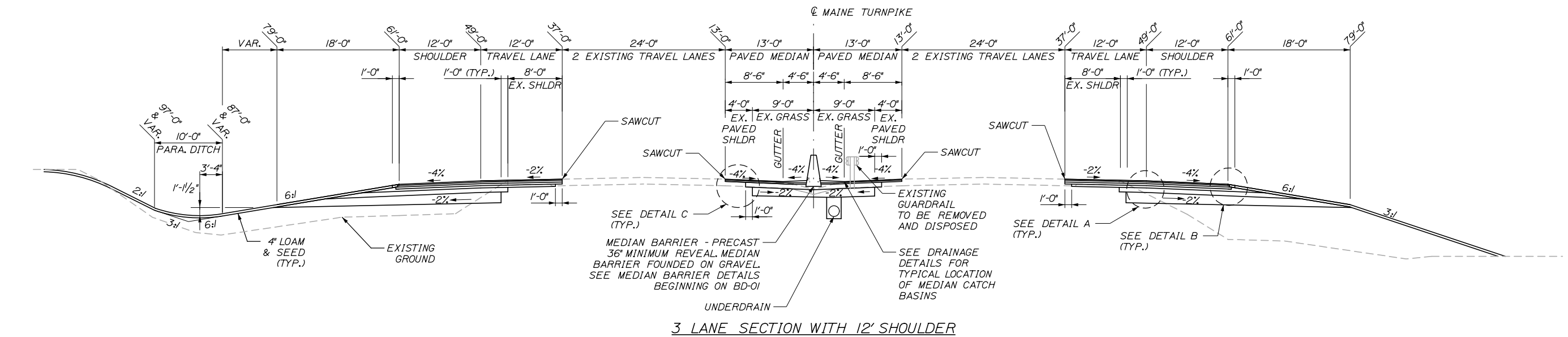
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

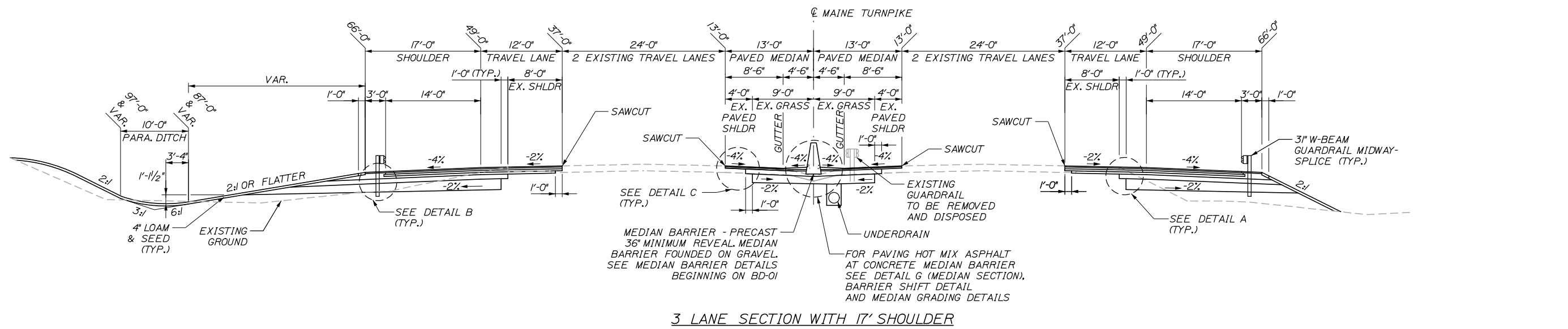
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 GENERAL NOTES

SHEET NUMBER: GN-01
 CONTRACT: 2021.08
 5 OF 376

Date: 9/8/2021





3 LANE SECTION WITH 12' SHOULDER



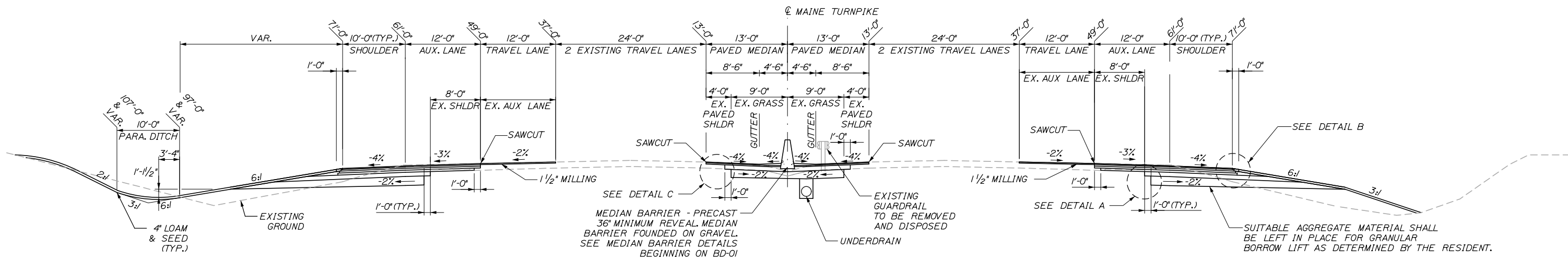
3 LANE SECTION WITH 17' SHOULDER

NOTES:

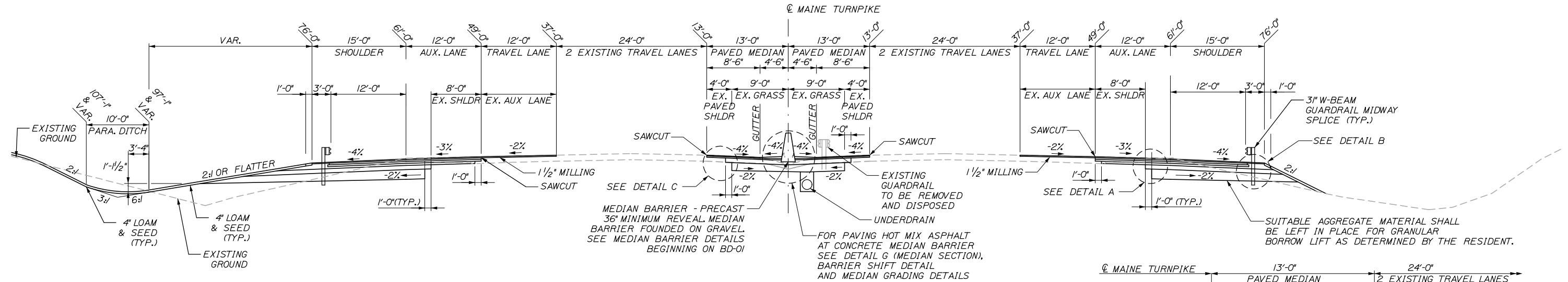
1. THE PAVEMENT BASE DEPTHS AND CROSS SLOPES AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION OF THE RAMP TRAVEL WAY LANE EXCEEDS 4%, LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVEL LANE.
3. *ROLLOVER* ALGEBRAIC DIFFERENCE IN RATES OF CROSS SLOPE SHALL NOT EXCEED 8% ON THE RAMPS.
4. CROWNS FOR BOTH SUPERELEVATED AND NORMAL SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
5. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING. REMAINDER OF SAWCUT TO BE BITUMINOUS TACK COAT. PAYMENT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
6. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
7. CONSTRUCT A 20' TRANSITION FOR AGGREGATE COURSE DEPTHS FROM RAMP ADJACENT TO TURNPIKE TO RAMP PROPER.
8. UNSUITABLE SUBGRADE CONSISTING OF SOFT COHESIVE SOIL SHALL BE EXCAVATED TO A MINIMUM OF TWO FEET BELOW SUBGRADE AND REPLACED WITH A LAYER OF SEPARATION GEOTEXTILE AND GRANULAR BORROW.
9. PAVEMENT GRINDINGS OR AGGREGATE BASE COURSE-TYPE A SHALL BE PAID FOR UNDER PAY ITEM 304.14.
10. THE PAVEMENT PLACED IN THE AREA BETWEEN MEDIAN BARRIER AND MEDIAN GUTTER, IS QUANTIFIED AS, AND WILL BE PAID FOR UNDER, THE PAVEMENT ITEMS NOTED IN DETAIL C.
11. THE MAXIMUM VERTICAL MEASUREMENT OF DEPTH FOR PAYMENT OF STRUCTURAL ROCK EXCAVATION WILL BE TO A HORIZONTAL PLANE LOCATED 12 INCHES BELOW THE BOTTOM OF THE INVERT OF THE PIPE FOR UNDERDRAIN TYPE "B" AND UNDERDRAIN TYPE "C".
12. THE INVERT ELEVATION OF UNDERDRAIN TYPE "B" OUTLETS SHALL BE A MINIMUM OF 6 INCHES ABOVE THE FLOW LINE OF A DITCH OR THE ORIGINAL GROUND.
13. SURFACE PAVEMENT PLACED AGAINST THE MEDIAN BARRIER SHALL BE PLACED AT THE SAME TIME AS THE SHOULDER SURFACE COURSE.
14. HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO THE MEDIAN BARRIER PRIOR TO PAVING AGAINST BARRIER. PAYMENT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
15. GRANULAR BORROW SHALL MEET GRADATION OF GRANULAR BORROW FOR UNDERWATER BACKFILL.
16. GRANULAR BORROW IS ESTIMATED AS SHOWN IN SECTION. HOWEVER, EXISTING MATERIAL WITHIN THE GRANULAR BORROW LAYER MEETING GRANULAR BORROW FOR UNDERWATER BACKFILL SPECIFICATION, SHALL BE LEFT IN PLACE OR REUSED WITHIN THE GRANULAR BORROW LAYER AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE, UNDER COMMON EXCAVATION, FOR MATERIAL THAT IS MOVED (FURROWED), GRADED AND COMPACTED AT 50% OF THE COMMON EXCAVATION UNIT PRICE FOR THE VOLUME ACTUALLY MOVED. NO PAYMENT WILL BE MADE FOR MATERIAL THAT IS LEFT IN PLACE.

Scale: NOT TO SCALE		Designed by:				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		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 46.4 TO MM 49.3 TYPICAL SECTIONS (1 OF 3)							
<table border="1"> <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> </tbody> </table>		No.	Revision											By	Date				
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<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>CAV</td> <td>09\21</td> <td>PJS</td> <td>09\21</td> </tr> <tr> <td>GW</td> <td>09\21</td> <td>TRC</td> <td>09\21</td> </tr> </tbody> </table>		By	Date	By	Date	CAV	09\21	PJS	09\21	GW	09\21	TRC	09\21	Designed CAV 09\21 Checked PJS 09\21 Drawn GW 09\21 In Charge of TRC 09\21		SHEET NUMBER: TYP-01		6 OF 376	
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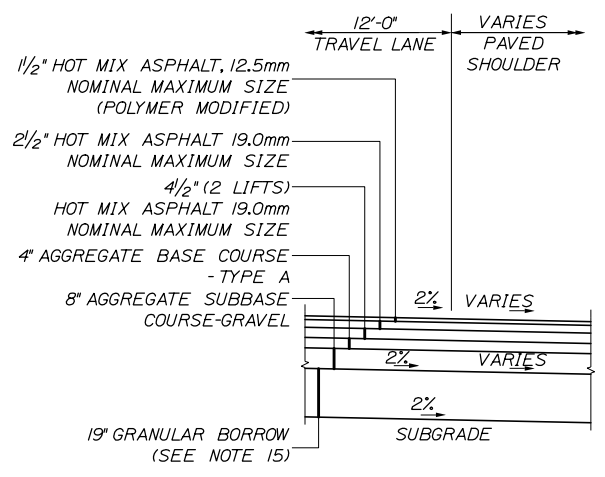
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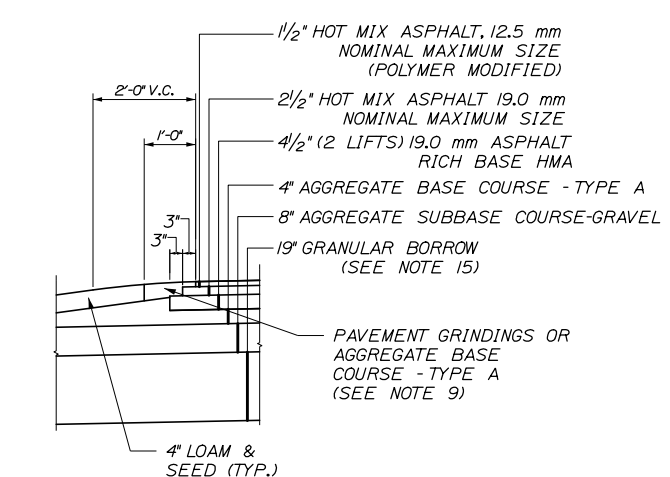
ACCELERATION/ DECELERATION LANE SECTION WITH 10' SHOULDER



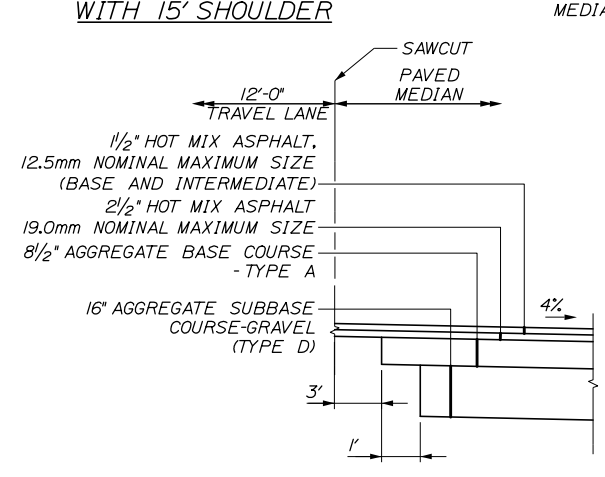
ACCELERATION/ DECELERATION LANE SECTION WITH 15' SHOULDER



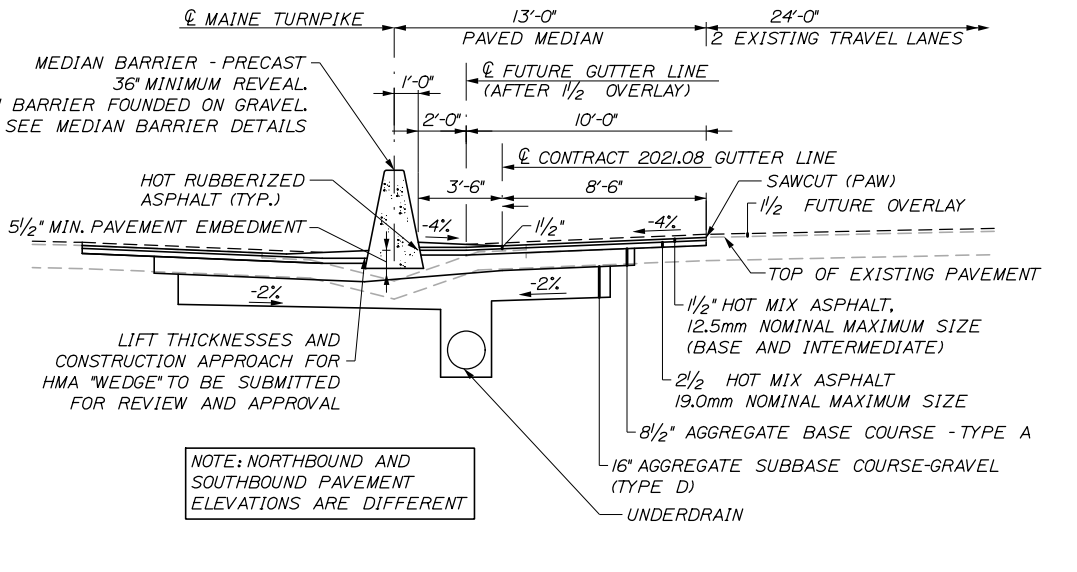
DETAIL A



DETAIL B



DETAIL C



DETAIL G (MEDIAN SECTION)

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Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
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Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

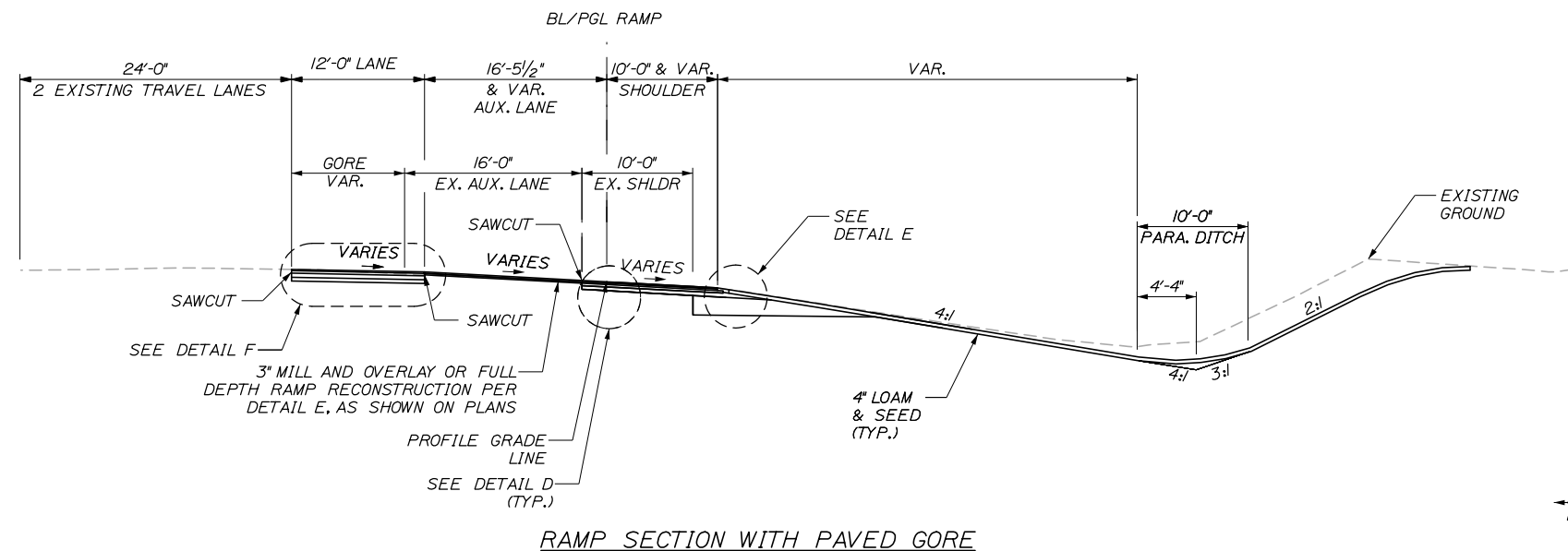
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

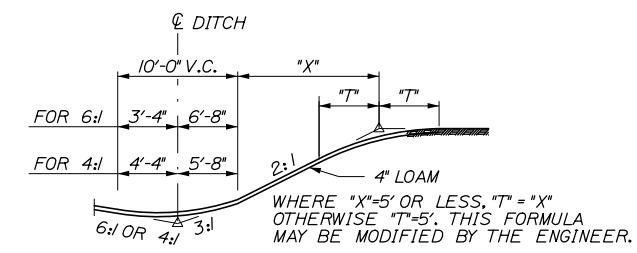
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 TYPICAL SECTIONS (2 OF 3)

SHEET NUMBER: TYP-02
 CONTRACT: 2021.08
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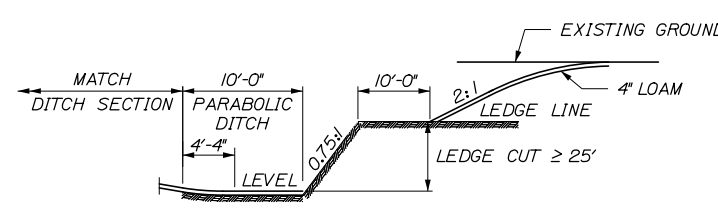
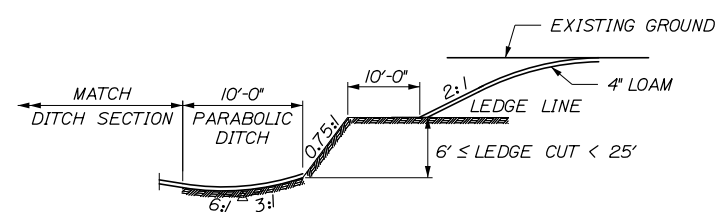
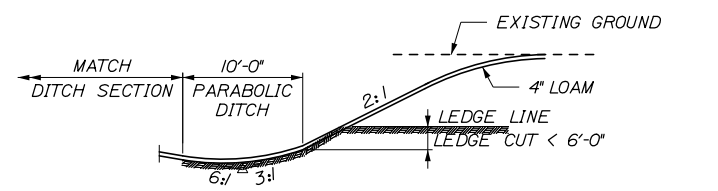
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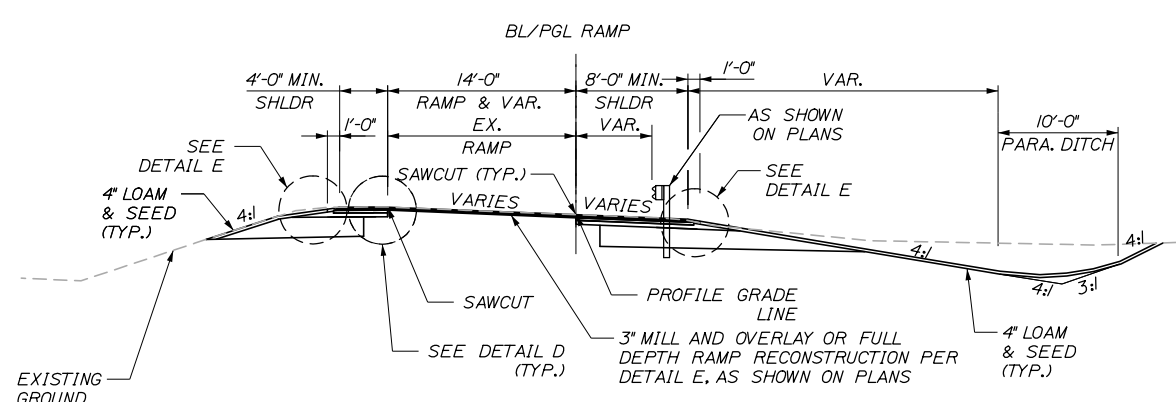
RAMP SECTION WITH PAVED GORE



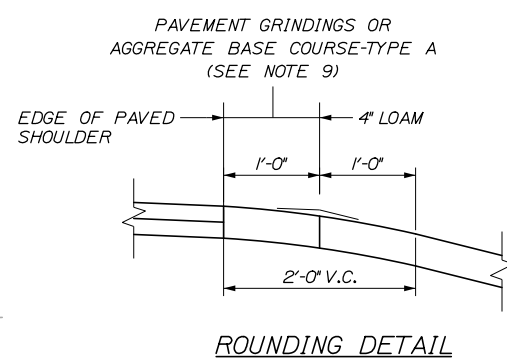
BACKSLOPE ROUNDING DETAIL



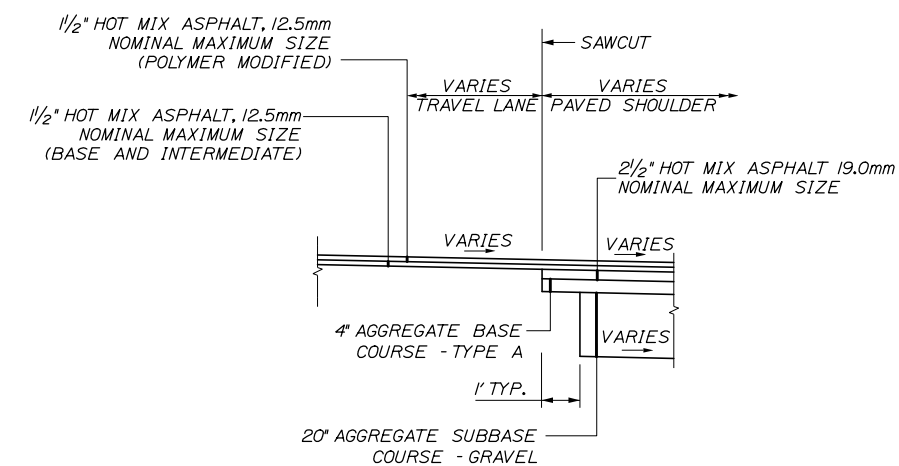
LEDGE ROCK CUT



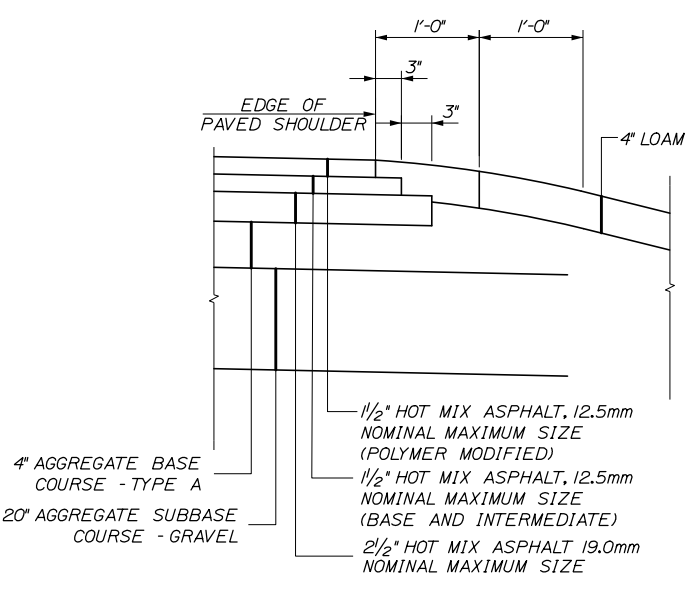
RAMP SECTION WITH 8' SHOULDER



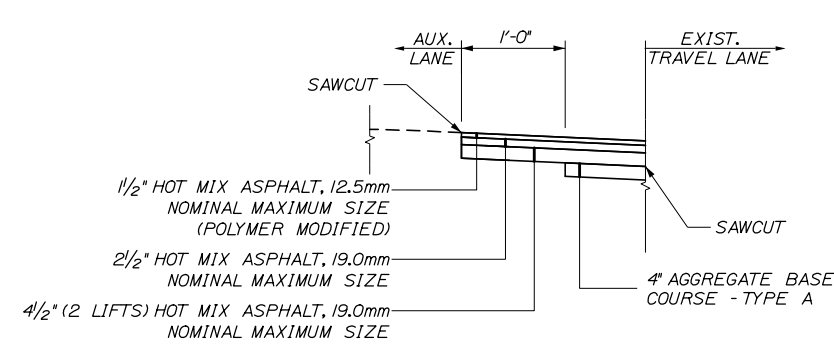
ROUNDING DETAIL



DETAIL D



DETAIL E



DETAIL F

SUPERELEVATION (e)		
LEFT %	STATION	RIGHT %
46NB ON RAMP		
+1.58%	72+06.48	-3.38%
+3.00%	72+25	-4.00%
+3.00%	72+55	-4.00%
46SB OFF RAMP		
-3.62%	52+75	+4.00%
-4.00%	53+00	+3.20%
-4.00%	56+75	+3.20%
-4.00%	57+25	+3.00%
47NB OFF RAMP		
+3.00%	100+50	-3.00%
+5.20%	101+50	-5.20%
+5.20%	104+75	-5.20%
+5.78%	105+00	-5.34%
47NB ON RAMP		
+5.84%	111+00	-5.47%
+6.00%	11+25	-6.00%
+6.00%	112+75	-6.00%
+3.93%	113+46.43	-4.00%
+3.20%	113+75	-4.00%
+3.20%	115+75	-4.00%
+3.00%	116+25	-4.00%
47SB ON RAMP		
-4.00%	82+00	+3.00%
-4.00%	83+75	+3.00%
-4.00%	84+00	+3.36%
-4.00%	84+25	+3.93%
-4.00%	84+33.33	+4.16%
-4.50%	84+50+00	+4.50%
-5.10%	84+69.80	+5.10%
-5.25%	84+75	+5.25%
-5.72%	84+90.61	+5.72%
-6.00%	85+00	+6.00%
47SB OFF RAMP		
-5.50%	90+00	+4.28%
-5.60%	90+50	+5.60%
-5.60%	94+00	+5.60%
-4.60%	94+50	+4.60%
-4.60%	96+50	+4.60%
-4.00%	96+87.50	+3.90%
-4.00%	97+50	+3.00%
48NB OFF RAMP		
+3.00%	141+50	-4.00%
+4.40%	142+50	-4.40%
+4.40%	144+75	-4.40%
+6.10%	145+75	-6.88%
48NB ON RAMP		
-7.70%	158+00	-7.70%
+4.00%	160+36.20	-4.00%
+3.00%	161+00	-4.00%
48SB ON RAMP		
-4.00%	125+00	+3.00%
-4.00%	125+23.80	+4.00%
-7.20%	126+00	-7.20%
-7.20%	128+75	-7.20%
-6.10%	129+25	+5.90%
48SB OFF RAMP		
-4.80%	129+50	+4.80%
-4.80%	132+00	+4.80%
-5.40%	132+50	+5.40%
-5.40%	134+75	+5.40%
-4.00%	135+04.17	+4.00%
-4.00%	135+25	+3.00%

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA
 MAINLINE IMPROVEMENTS
 MM 46.4 TO MM 49.3
 TYPICAL SECTION (3 OF 3)

SHEET NUMBER: TYP-03

CONTRACT: 2021.08

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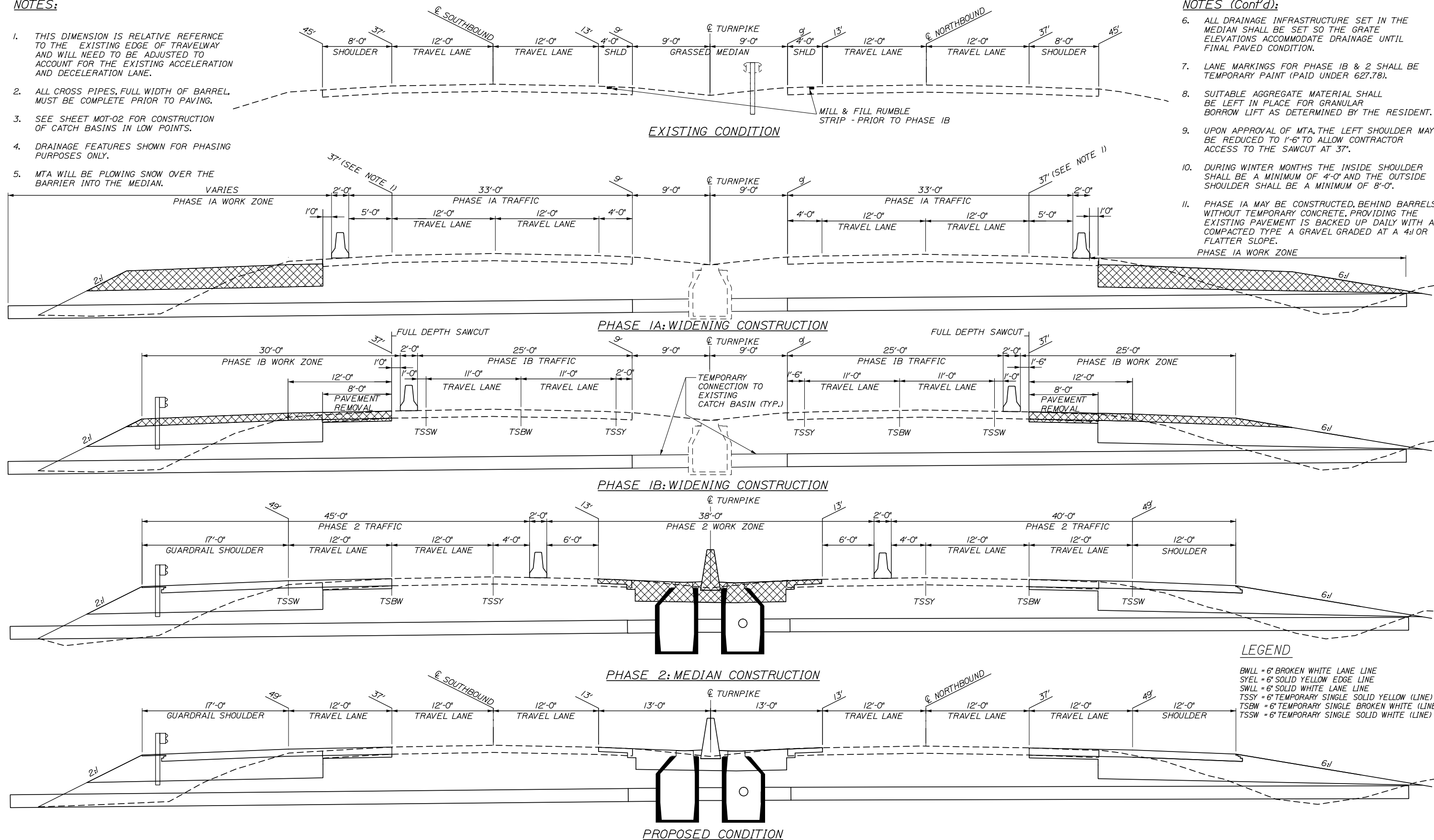
NOTES:

1. THIS DIMENSION IS RELATIVE REFERENCE TO THE EXISTING EDGE OF TRAVELWAY AND WILL NEED TO BE ADJUSTED TO ACCOUNT FOR THE EXISTING ACCELERATION AND DECELERATION LANE.
2. ALL CROSS PIPES, FULL WIDTH OF BARREL, MUST BE COMPLETE PRIOR TO PAVING.
3. SEE SHEET MOT-02 FOR CONSTRUCTION OF CATCH BASINS IN LOW POINTS.
4. DRAINAGE FEATURES SHOWN FOR PHASING PURPOSES ONLY.
5. MTA WILL BE PLOWING SNOW OVER THE BARRIER INTO THE MEDIAN.

NOTES (Cont'd):

6. ALL DRAINAGE INFRASTRUCTURE SET IN THE MEDIAN SHALL BE SET SO THE GRATE ELEVATIONS ACCOMMODATE DRAINAGE UNTIL FINAL PAVED CONDITION.
7. LANE MARKINGS FOR PHASE 1B & 2 SHALL BE TEMPORARY PAINT (PAID UNDER 627.78).
8. SUITABLE AGGREGATE MATERIAL SHALL BE LEFT IN PLACE FOR GRANULAR BORROW LIFT AS DETERMINED BY THE RESIDENT.
9. UPON APPROVAL OF MTA, THE LEFT SHOULDER MAY BE REDUCED TO 1'-6" TO ALLOW CONTRACTOR ACCESS TO THE SAWCUT AT 37'.
10. DURING WINTER MONTHS THE INSIDE SHOULDER SHALL BE A MINIMUM OF 4'-0" AND THE OUTSIDE SHOULDER SHALL BE A MINIMUM OF 8'-0".
11. PHASE 1A MAY BE CONSTRUCTED BEHIND BARRELS, WITHOUT TEMPORARY CONCRETE, PROVIDING THE EXISTING PAVEMENT IS BACKED UP DAILY WITH A COMPACTED TYPE A GRAVEL GRADED AT A 4:1 OR FLATTER SLOPE.

Date: 9/9/2021




Filename: PAW2_DETAILS_MOT-01

Scale:			
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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
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	Checked	PJS	09\21
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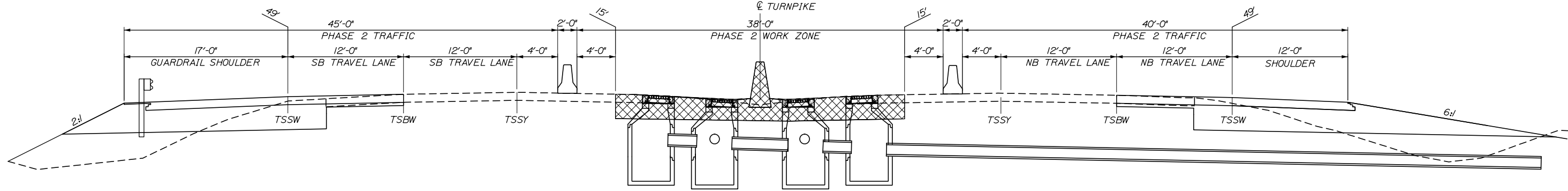
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

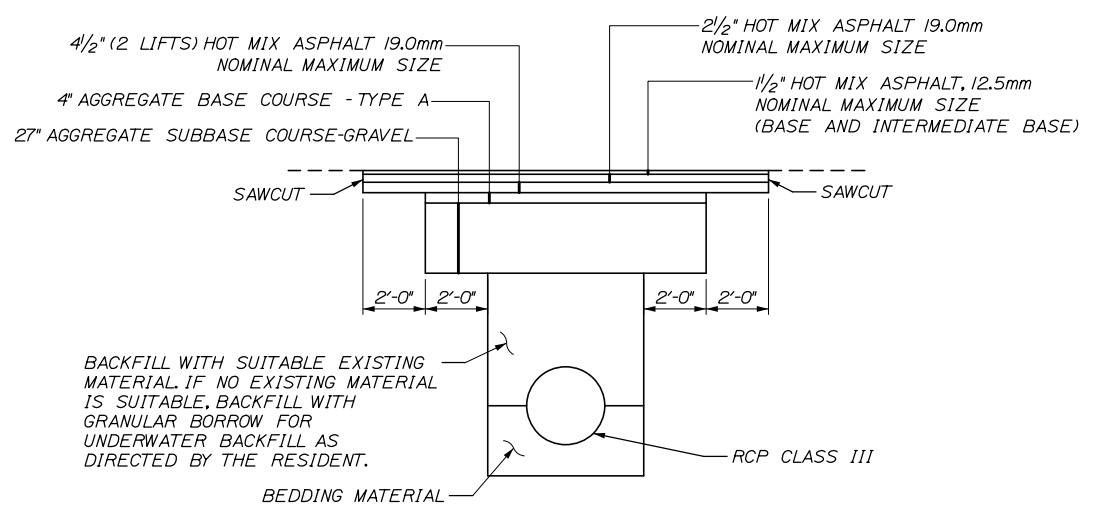
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

SHEET NUMBER: MOT-01
CONTRACT: 2021.08
9 OF 376

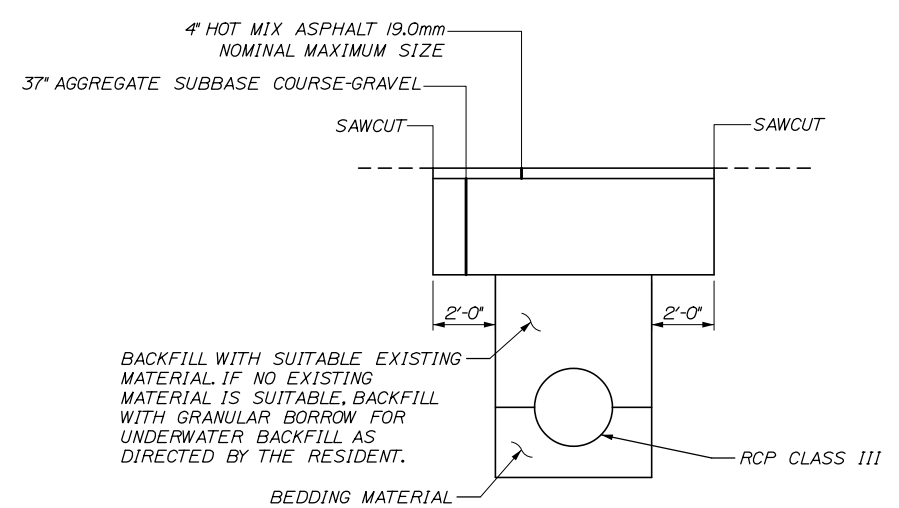
Date: 9/8/2021



PHASE 2: MEDIAN CONSTRUCTION
LOW POINTS
 (SEE NOTES)



MAINLINE CULVERT TRENCH DETAIL

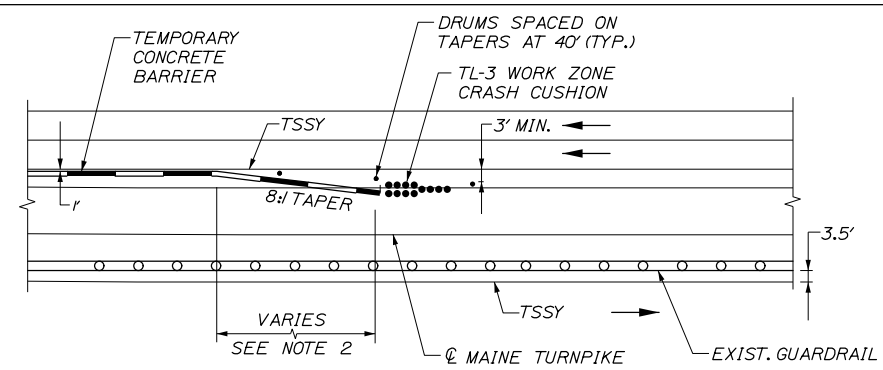


TEMPORARY MAINLINE CULVERT TRENCH DETAIL

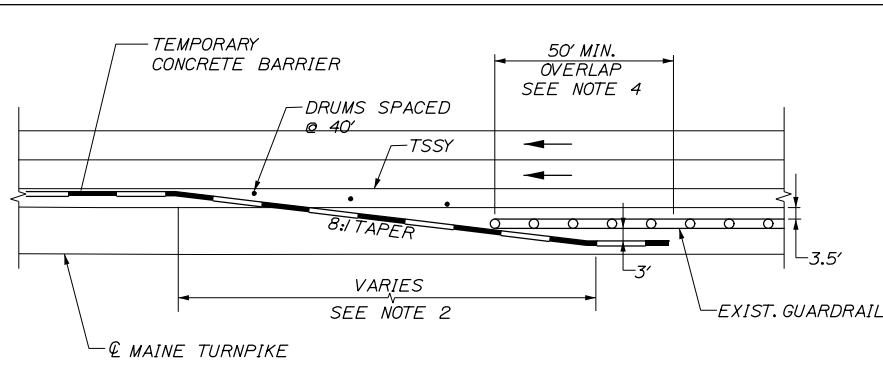
MAINLINE TRENCH DETAILS

NOTES:

1. LOW POINTS REQUIRE ADDITIONAL CATCH BASINS WHICH ALSO REQUIRE A CHANGE IN CONTRACTOR WORK AREA.
2. SEE DRAINAGE DETAILS FOR TYPICAL LOCATION OF MEDIAN CATCH BASINS.
3. ALL TRENCHES EXTENDING INTO THE TRAVEL LANE SHALL BE RECONSTRUCTED USING THE "MAINLINE CULVERT TRENCH DETAIL", THIS PAGE.



EXIST. GUARDRAIL ON FAR SIDE OF MEDIAN



EXIST. GUARDRAIL ON NEAR SIDE OF MEDIAN

CONCRETE BARRIER / GUARDRAIL OVERLAP DETAIL

NOTES

1. BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION (TL-3), OR LAPPED BEHIND GUARDRAIL.
2. 8:1 MINIMUM TAPERED BARRIER LENGTH DEPENDENT ON LOCATION OF BARRIER RELATIVE TO MAINE TURNPIKE SHOULDERS OR LANES.
3. IF A WORK ZONE CRASH CUSHION - TL3 IS USED FOR A MEDIAN SHOULDER CLOSURE, THE CRASH CUSHION SYSTEM MUST BE FOUNDED ON A LEVEL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY WORK NECESSARY TO PROVIDE A LEVEL SURFACE WILL BE INCIDENTAL TO THE CRASH CUSHION ITEM.
4. IF THE 50' MIN. LENGTH OF OVERLAP CANNOT BE MET, THEN THE EXISTING GUARDRAIL END MUST BE ANCHORED IN ACCORDANCE WITH DRAWING SEW02a IN THE AASHTO-AGC-ARBTA JOINT COMMITTEE TASK FORCE 13 REPORT, DRAFTED MAY 1995.
5. PAYMENT SHALL BE INCIDENTAL TO TEMPORARY CONCRETE BARRIER.

Filename: PAW2_DETAILS_MOT-02

Scale:			
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No.	Revision	By	Date

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 TYPICAL SECTIONS

SHEET NUMBER: MOT-02
 CONTRACT: 2021.08
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GENERAL MAINTENANCE OF TRAFFIC NOTES

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE AND RAMP TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
4. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVE EXISTING PAVEMENT MARKINGS.
5. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.78 - TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW.
6. PRIOR TO SHIFTING TRAFFIC, THE CONTRACTOR SHALL MILL THE EXISTING RUMBLE STRIPS AND PAVE FLUSH WITH THE SHOULDER PAVEMENT. PAYMENT WILL BE UNDER ITEM 202.206 - REMOVING RUMBLE STRIPS.
7. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.34I - WORK ZONE CRASH CUSHION - TL-3.
8. TAPER RATE FOR TEMPORARY CONCRETE BARRIER SHALL BE A MINIMUM OF 8:1 UNLESS MORE SPACE IS AVAILABLE. THEN THE BARRIER SHALL BE TAPERED AT 15:1 OR 100', WHICHEVER IS LONGEST. THE TAPERED BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO THE MAINE TURNPIKE SHOULDERS OR LANES. THE BARRIER SHALL TERMINATE AT A LOCATION WHERE A CRASH CUSHION CAN BE INSTALLED A MINIMUM OF 3 FEET FROM THE TRAVEL LANE.
9. PAVEMENT STRIPING OF THE TAPER SHALL PROVIDE A MINIMUM OF 250' BUFFER TO WHERE THE BARRIER BECOMES PARALLEL TO THE TRAVEL LANE.
10. STANDARD SINGLE LANE CLOSURES FOR LANES 1 AND 2 SHALL BE USED FOR DRAINAGE WORK, GUARDRAIL WORK, MEDIAN WORK, EQUIPMENT MOVES, BERM DROP OFF CORRECTION WORK, PAINTING OF SOLID LANE LINES AND ALL OTHER WORK NOT REQUIRING ENCROACHMENT INTO THE ADJACENT LANE.
11. PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN IN PHASE IB, EXISTING CATCH BASIN GRATES SHALL BE SEALED. THE FRAME SHALL BE CLEANED TO ACCEPT A BEAD OF ELASTOMERIC SEALER. ELASTOMERIC SEALER SHALL BE SIKAFLEX 1A AS MANUFACTURED BY SIKA OR APPROVED EQUAL SEALER SHALL BE PLACED IN A CONTINUOUS BEAD OVER THE HORIZONTAL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. EXISTING GRATES SHALL BE REINSTALLED AND ALLOWED TO SET FOR AN MINIMUM OF 1-1/2 HOURS BEFORE RECEIVING TRAFFIC LOAD. WORK SHALL BE INCIDENTAL TO ITEM 652.36I - MAINTENANCE OF TRAFFIC CONTROL DEVICES.
12. PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN IN PHASE IB, SHOULDER SHALL BE INSPECTED AND BERM CORRECTION SHALL BE MADE PER DETAIL IN THESE MOT SHEETS AS DIRECTED BY THE RESIDENT. PAYMENT FOR BERM CORRECTION SHALL BE MADE UNDER ITEM 470.08 - BERM DROP OFF CORRECTION.
13. CONTRACTOR SHALL MAINTAIN FLOW IN ALL EXISTING DRAINAGE STRUCTURES AT ALL TIMES UNTIL THE PROPOSED SYSTEM HAS BEEN INSTALLED.
14. ALL TEMPORARY CONCRETE BARRIER SHALL HAVE DRAINAGE SLOTS TO ALLOW FLOW OF WATER. TEMPORARY CONCRETE BARRIER, SET AT LOW POINTS, SHALL BE SET ON BLOCKING PER SPECIAL PROVISIONS.
15. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF SPEC. SECTION 105.2.6, IF EXPLOSIVES ARE USED.
16. ALL TEMPORARY WORK ZONE DEVICES SHALL BE MASH 2016 COMPLIANT UNLESS SUCH DEVICE(S) CAN BE SHOWN TO BE MASH 2009 OR NCHRP-350 COMPLIANT AND ARE STILL WITHIN THEIR NORMAL SERVICE LIFE AS DETERMINED BY THE RESIDENT.
17. ALL TEMPORARY CONCRETE BARRIER IN SERVICE AT PROJECT STARTUP AND WITHIN PROJECT LIMITS SHALL BE CONSIDERED PART OF ITEM 526.306 TEMPORARY CONCRETE BARRIER - SUPPLIED BY THE AUTHORITY. THE BARRIER SHALL BE REMOVED DURING PHASE 2 MEDIAN CONSTRUCTION AND DELIVERED TO CROSBY MAINTENANCE OR PUT INTO SERVICE WITHIN THE PROJECT LIMITS WHEN CALLED OUT TO BE REMOVED. PAYMENT SHALL BE INCIDENTAL TO ITEM 526.306.

CONSTRUCTION OF RAMPS NOTES

1. CONTRACTOR SHALL SUBMIT PHASING SEQUENCE LAYOUTS AND WORK ELEMENTS FOR EACH PHASE OF RAMP AND GORE CONSTRUCTION, INCLUDING LANE AND SHOULDER WIDTH AND SAWCUT LOCATIONS FOR APPROVAL PRIOR TO CONSTRUCTION. SAWCUTS SHALL BE AT THE EDGE OR MIDDLE OF LANE UNLESS OTHERWISE APPROVED.
2. MINIMUM PAVED RAMP WIDTH SHALL BE 16 FEET WIDE UNLESS OTHERWISE NOTED ON THE PLANS.
3. PHASE IA INTENT IS TO ALLOW MAJORITY OF EMBANKMENT AND ANCILLARY CONSTRUCTION PRIOR TO PHASE IB WHEN MAINLINE LANES ARE NARROWED AND SHIFTED TO ALLOW FOR MAINLINE SHOULDER RECONSTRUCTION.
4. PHASE IA MAY BE CONSTRUCTED IN TWO SUB-PHASES, ONE FOR GORE CONSTRUCTION AND ONE FOR OUTSIDE (RIGHT SIDE) RAMP AND MAINLINE CONSTRUCTION. HOWEVER, TEMPORARY CONCRETE BARRIER FOR THESE SUB-PHASES SHALL NOT BE SETUP ON BOTH SIDES OF RAMP TRAFFIC SIMULTANEOUSLY. PLANS SHOW THE CLOSEST OF THESE TWO SUB-PHASES AND CONCRETE BARRIER MAY BE SETUP AT THE SAME TIME.
5. PHASE IB SHALL BE CONSTRUCTED WITH A SHORT-TERM RAMP CLOSURE. PLANS SHOW TEMPORARY CONCRETE BARRIER FOR TYPICAL PHASE IB LAYOUT AND THE BARRIER LAYOUT FOR THE RAMP CLOSURE. FOLLOWING RAMP CLOSURE, TEMPORARY CONCRETE BARRIER FOR THE RAMP CLOSURE SHALL BE REMOVED TO ELIMINATE BARRIER BEING SETUP ON BOTH SIDES OF RAMP TRAFFIC SIMULTANEOUSLY.
6. RAMP CLOSURES OF 3 DAYS OR LESS WILL REQUIRE VMS SETUPS. RAMP CLOSURES GREATER THAN 3 DAYS WILL REQUIRE VMS SETUPS AND LOCAL ROAD DETOUR SIGNAGE. CONTRACTOR SHALL NOTIFY MTA 45 DAYS PRIOR TO EACH PLANNED RAMP CLOSURE WITH PLANNED DURATION TO ALLOW TIME TO COORDINATE REQUIRED VMS MESSAGE AND/OR DETOUR SIGNAGE. RAMP CLOSURES, VMS SETUPS, AND DETOUR SIGNAL SHALL NOT BE SETUP WITHOUT WRITTEN APPROVAL OF THE MTA. PAYMENT FOR DETOUR SIGNAGE WILL BE UNDER ITEM 652.35 CONSTRUCTION SIGNS. PAYMENT FOR VMS AND SIGN MAINTENANCE WILL BE INCIDENTAL TO APPROPRIATE PAY ITEMS.

MOT SIGN NOTES


1. ALL PROPOSED CONSTRUCTION SIGNS SHALL BE PLACED ON BOTH SIDES OF THE ROAD WITH THE EXCEPTION OF ON RAMP SIGNS AND AS SHOWN ON THE PLANS.
2. NO SIGNS ON EASELS SHALL BE PLACED ON 4 FEET SHOULDERS WITH GUARDRAIL SIGNS REQUIRED AT THESE LOCATIONS SHALL BE PLACED ON TALLER EASELS ON THE MEDIAN SIDE OF THE GUARDRAIL.
3. ERECT CS-3 AND W3-4 SIGNS IMMEDIATELY PRIOR TO SCHEDULED STOPPAGES FOR EQUIPMENT MOVES AND REMOVE THE CS-3 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.
4. ALL MOT SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE RESIDENT.
5. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WORK ZONE SIGNS SHALL BE COVERED.
6. CONTRACTOR SHALL INSTALL SIGNS PER STANDARD MUTCD DETAIL FOR BLASTING ZONE (TA-2) WHERE NEEDED.
7. CONTRACTOR TO COORDINATE WITH ADJACENT CONTRACTS RESIDENT ENGINEERS TO AVOID HAVING OVERLAPPING CONSTRUCTION SIGNS.
8. ALL PERMANENTLY MOUNTED CONSTRUCTION SIGNS SHALL BE 7 FEET ABOVE PAVEMENT GRADE. REGULATORY SIGNS THAT ARE SET UP FOR TEMPORARY LANE CLOSURES MUST BE 5 FEET ABOVE PAVEMENT GRADE.
9. ALL NEW SIGNS SHALL BE COVERED UNTIL END OF CONSTRUCTION TO AVOID CONFLICTS WITH MOT SIGNS.

ABBREVIATIONS FOR ALL MOT PLANS

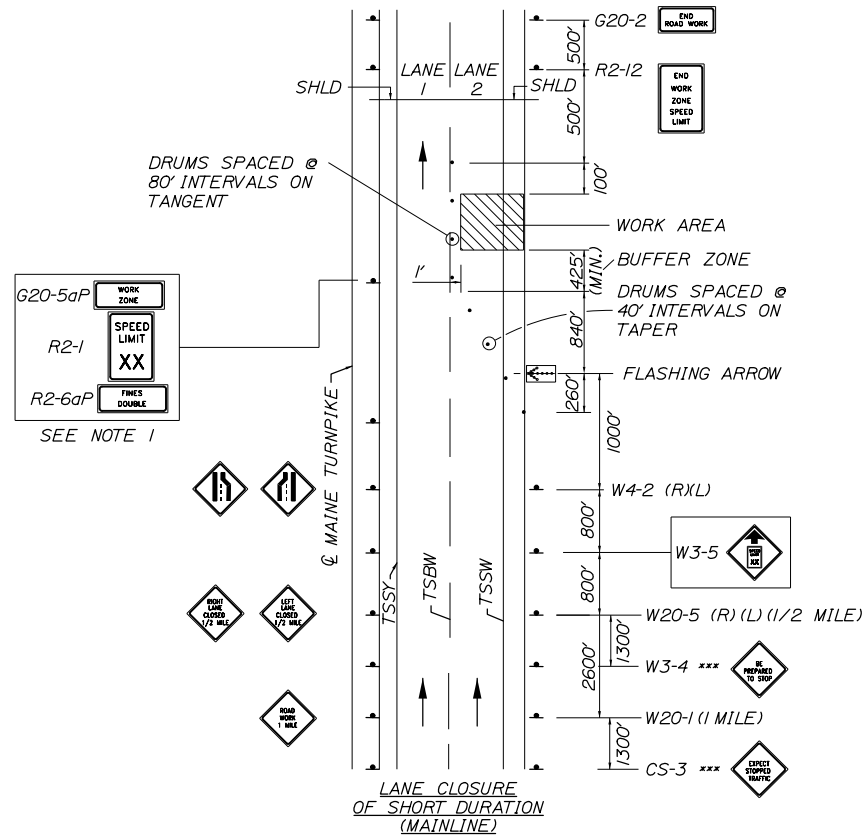
TSSW - 6" TEMPORARY SINGLE SOLID WHITE (LINE)
 TSBW - 6" TEMPORARY SINGLE BROKEN WHITE (LINE)
 TSDW - 6" TEMPORARY SINGLE DASHED WHITE (LINE)
 TSSY - 6" TEMPORARY SINGLE SOLID YELLOW (LINE)

Date: 9/8/2021

Filename: PAW2_DETAILS_MOT-03

Scale: NOT TO SCALE		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		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 46.4 TO MM 49.3 MAINTENANCE OF TRAFFIC GENERAL NOTES	
		CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.				MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.08	
No.	Revision	By	Date	Designed	MS	09\21	Checked	PJS	09\21
				Drawn	GW	09\21	In Charge of	TRC	09\21
								SHEET NUMBER: MOT-03	
								11 OF 376	

Date: 9/8/2021

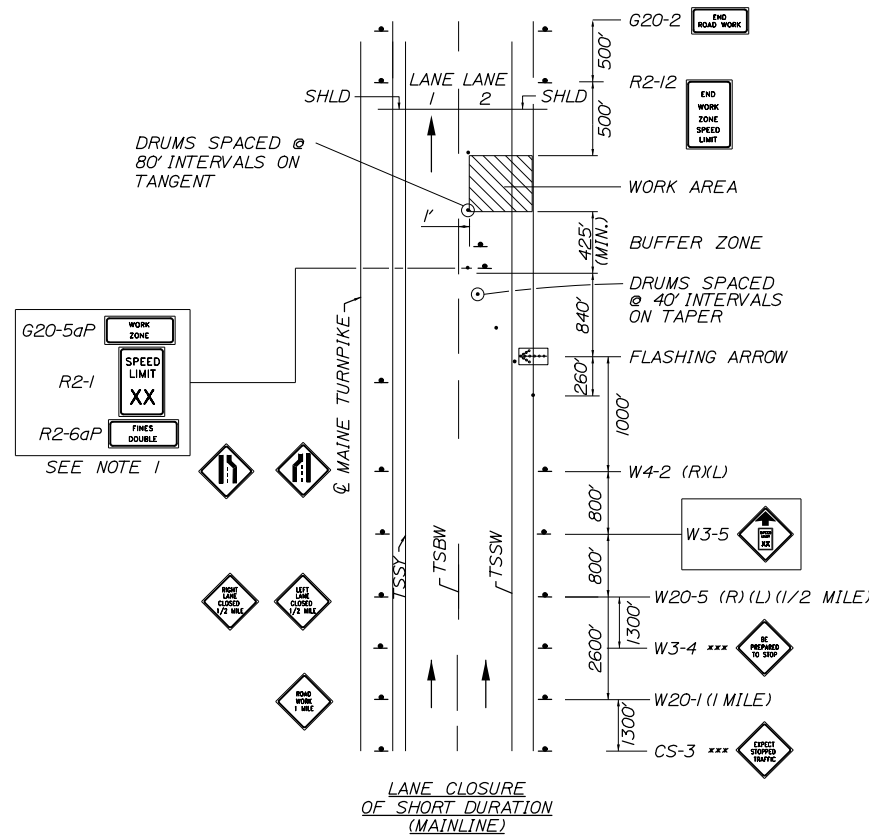


SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP

*** TO BE USED DURING STOPPAGES OF TRAFFIC

NOTE:

- FOR POST MOUNTED SIGN SETUP UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HOURS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HOURS).

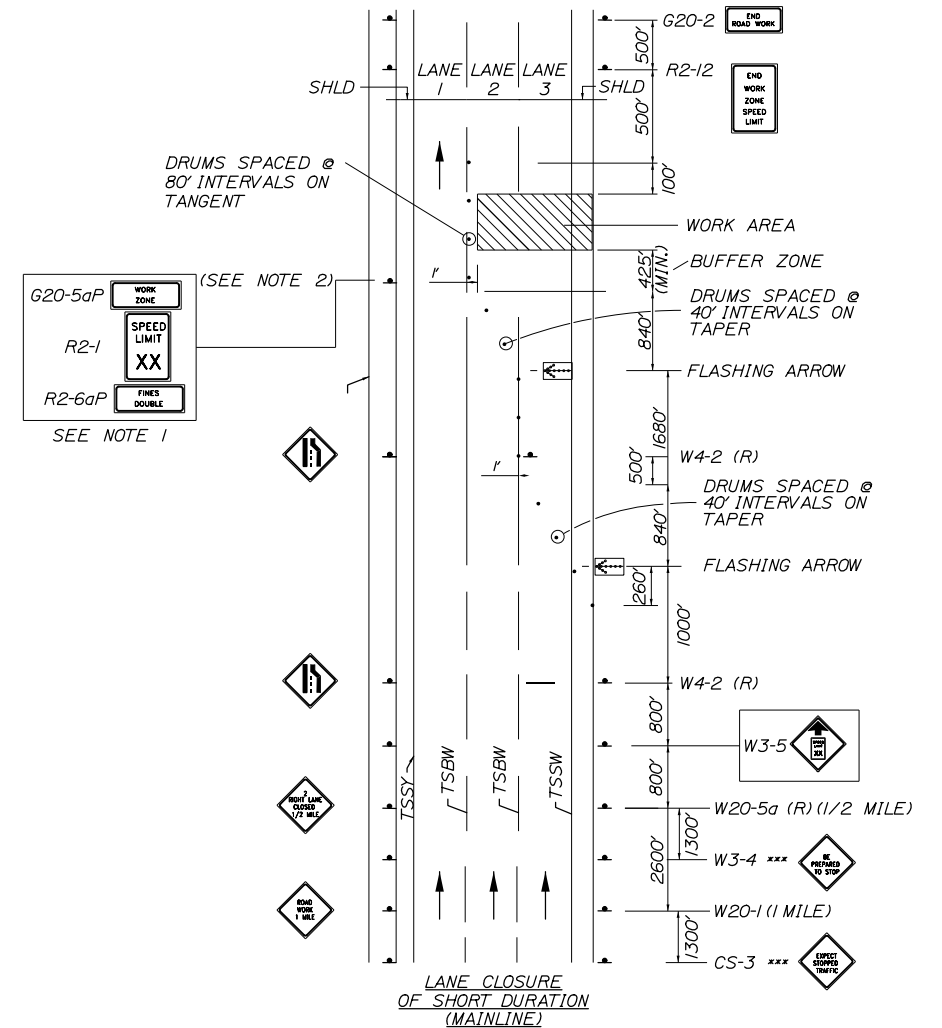


SINGLE LANE CLOSURE - SIGNS ON EASELS

*** TO BE USED DURING STOPPAGES OF TRAFFIC

NOTE:

- FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED. ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.

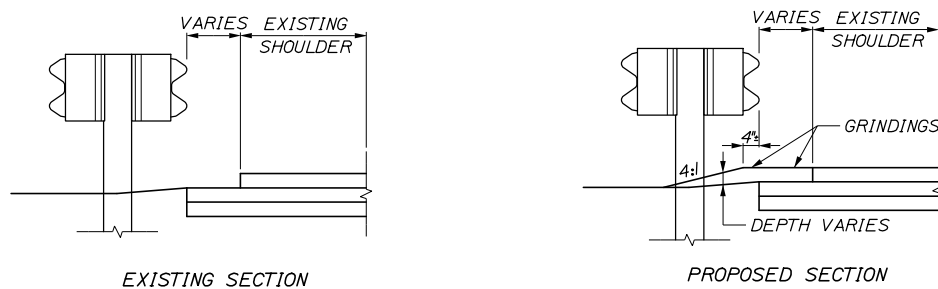


DOUBLE LANE CLOSURE - POST MOUNTED SIGN SETUP

*** TO BE USED DURING STOPPAGES OF TRAFFIC

NOTE:

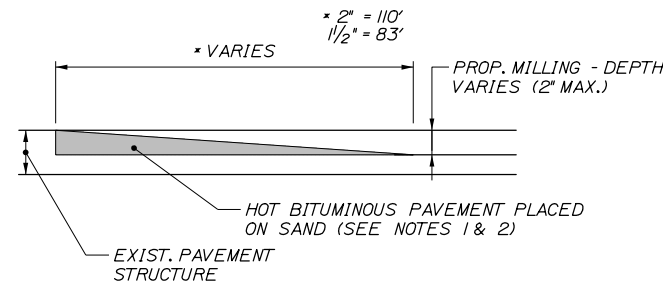
- FOR POST MOUNTED SIGN SETUP UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HOURS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HOURS).
- SIGN TO BE LOCATED ON THE PAVEMENT SHALL BE MOUNTED ON AN EASEL.



**BERM DROPOFF CORRECTION WITH GUARDRAIL
MEDIAN GUARDRAIL**

NOTE:

- BERM CORRECTION MUST BE COMPLETED PRIOR TO SHIFTING TRAFFIC TO INSIDE SHOULDER IN PHASE 1B.



TEMPORARY BITUMINOUS RAMP

NOTES:


- HOT MIX ASPHALT FOR TEMPORARY RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO HOT MIX ASPHALT 12.5 MM.
- REMOVAL OF TEMP. BITUMINOUS RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO HOT MIX ASPHALT 12.5 MM.

Filename: PAW2_DETAILS_MOT-04

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

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HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

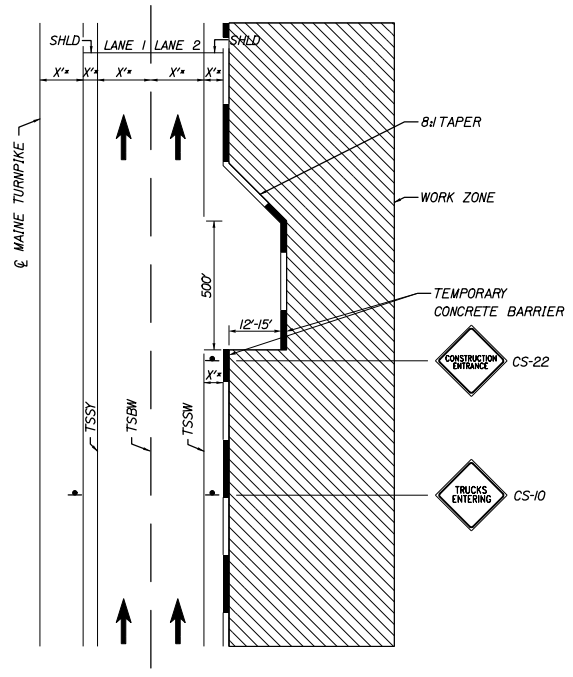
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
STANDARD DETAILS

SHEET NUMBER: MOT-04
CONTRACT: 2021.08
12 OF 376

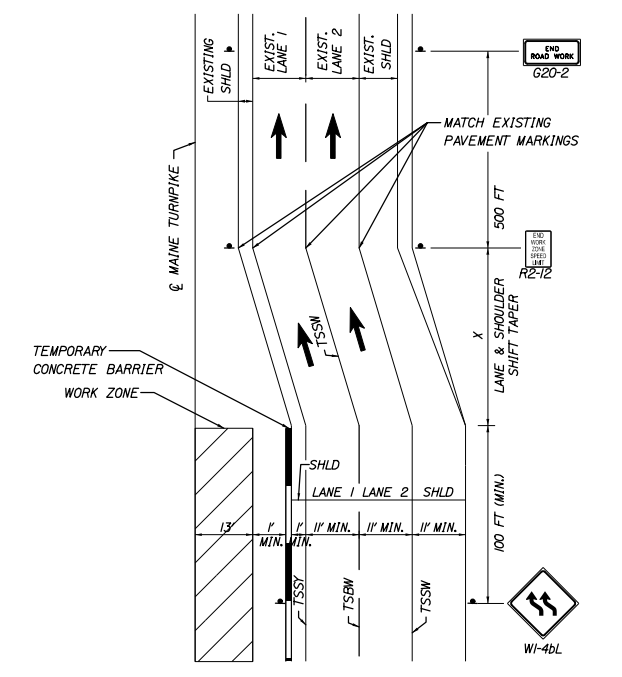
Date: 9/8/2021

Filename: PAW2_DETAILS_MOT-05



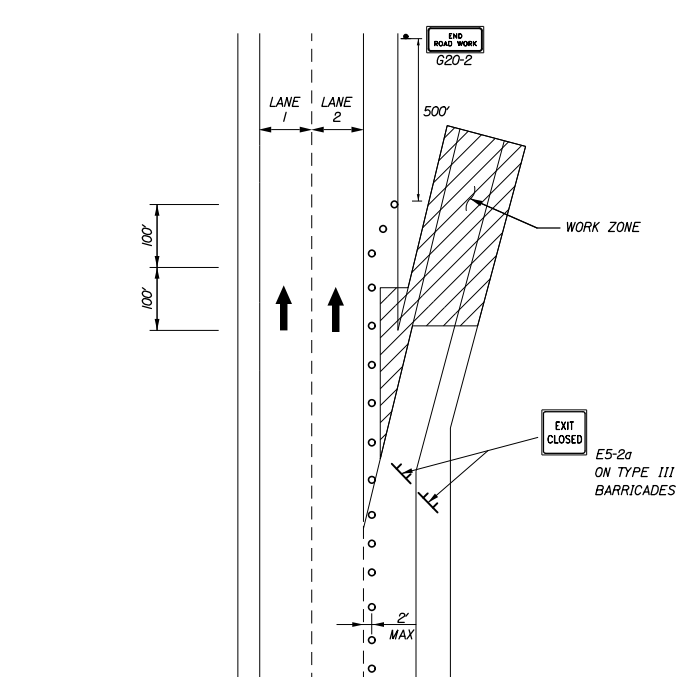
CONSTRUCTION ACCESS

- NOTES:
1. X* SEE PLANS FOR LANE AND SHOULDER WIDTHS.
 2. LOCATION OF THE CONSTRUCTION ACCESS SHALL BE DETERMINED ON SITE WITH APPROVAL FROM THE RESIDENT.



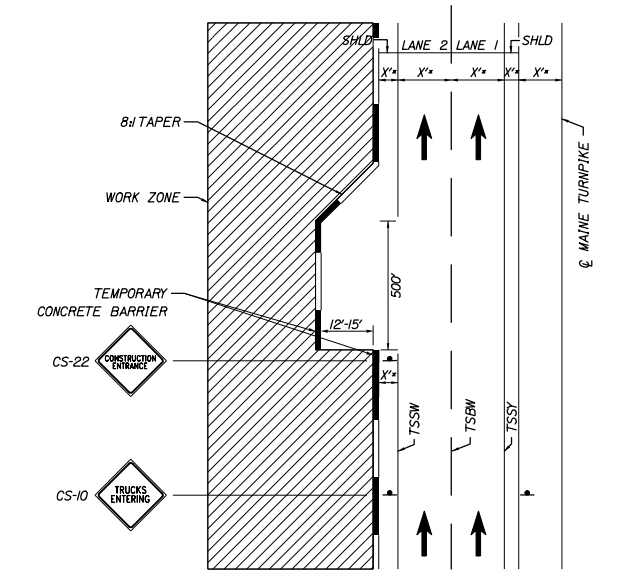
LANE & SHOULDER SHIFTING TAPER

- NOTES:
1. WHERE X* = LANE SHIFTING TAPER, $L = \frac{3}{4} X$ POSTED SPEED X WIDTH OF SHIFT (FOR EXAMPLE FOR FULL LANE SHIFT TAPER, $L = \frac{3}{4} X$ 50MPH X 12FT. = 450FT. MIN.)
 2. WHERE X* = SHOULDER TAPER, $L = \frac{1}{2} X$ POSTED SPEED X WIDTH OF SHIFT (FOR EXAMPLE FOR FULL SHOULDER SHIFT TAPER, $L = \frac{1}{2} X$ 50MPH X 4FT. = 67FT. MIN.)



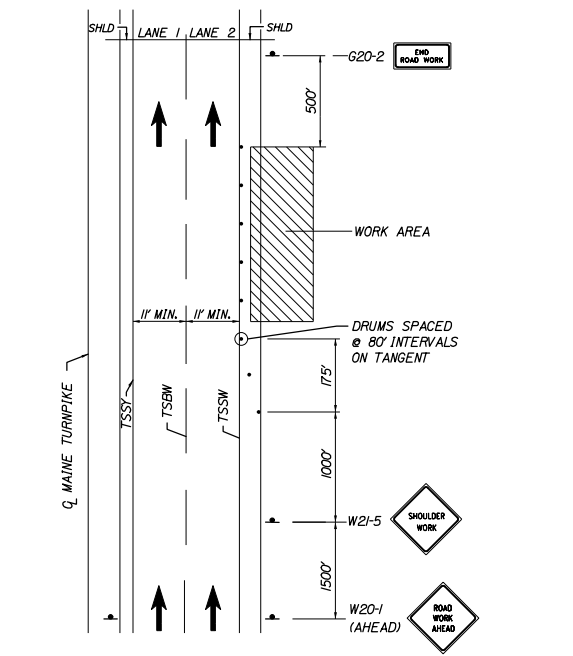
OFF RAMP CLOSURE

- DRUMS SPACED @ 40' INTERVALS (TYP.)
- CS-11 NO STOPPING ON PAVEMENT
- E5-2a EXIT CLOSED
- CS-4 EXIT CLOSED AHEAD
- W20-1 ROAD WORK AHEAD
- W13-4p ON RAMP



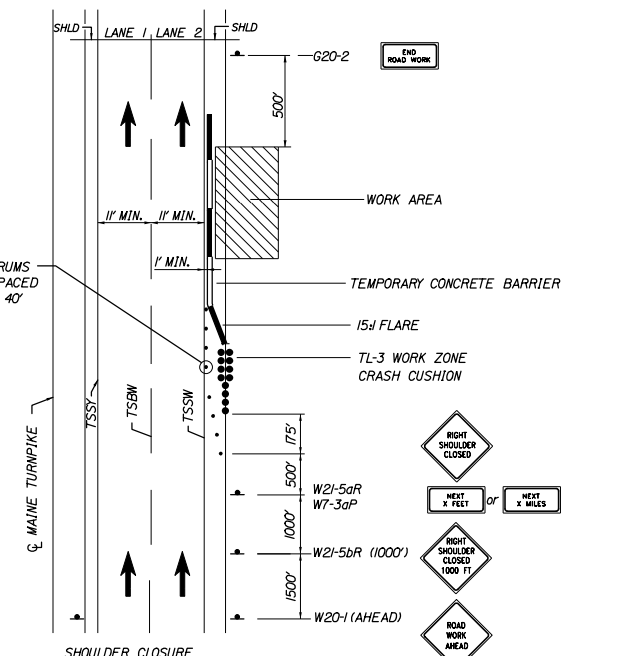
CONSTRUCTION ACCESS

- NOTES:
1. X* SEE PLANS FOR LANE AND SHOULDER WIDTHS.
 2. LOCATION OF THE CONSTRUCTION ACCESS SHALL BE DETERMINED ON SITE WITH APPROVAL FROM THE RESIDENT.



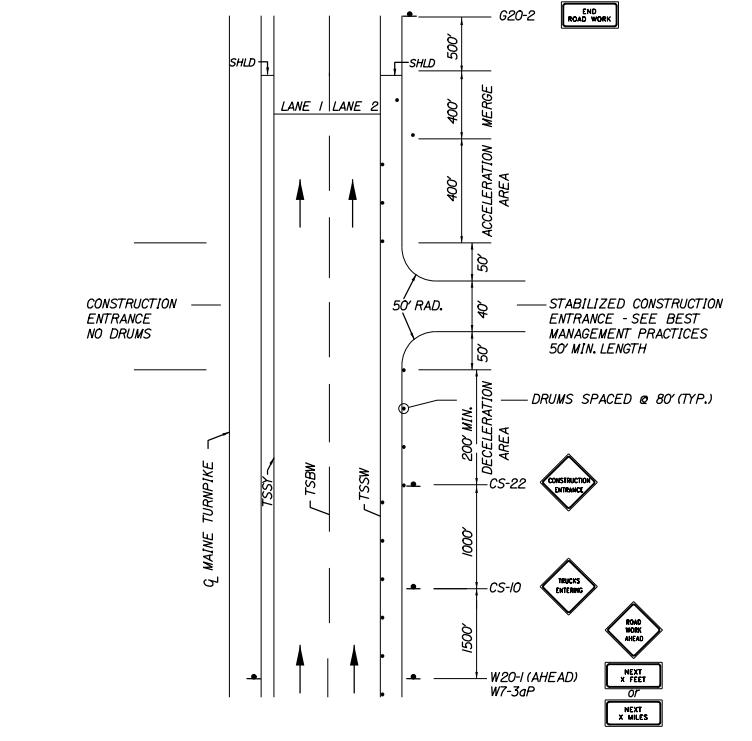
SHOULDER WORK (OF SHORT DURATION MAINLINE)

- NOTES:
1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.



SHOULDER CLOSURE (MAINLINE)

- NOTES:
1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.
 2. MULTIPLE SHOULDER CLOSURES WITHIN THE SAME WORK ZONE MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY MTA.



STABILIZED CONSTRUCTION ENTRANCE

- NOTES:
1. SIGNS W20-1, W7-3aP & G20-2 ARE NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.
 2. SEE DETAIL SHEET MOT-07 FOR CONSTRUCTION ACCESS FROM WORK AREA PROTECTED BY TEMPORARY CONCRETE BARRIER.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC STANDARD DETAILS

SHEET NUMBER: MOT-05

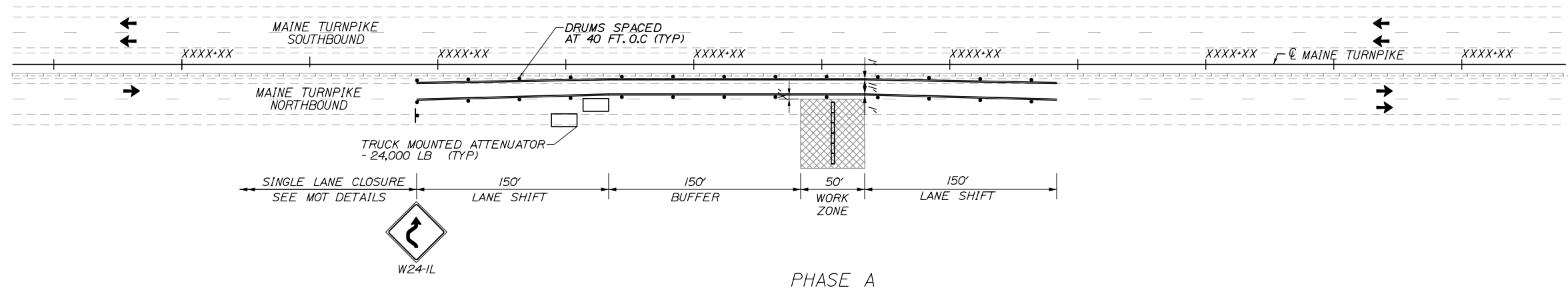
CONTRACT: 2021.08

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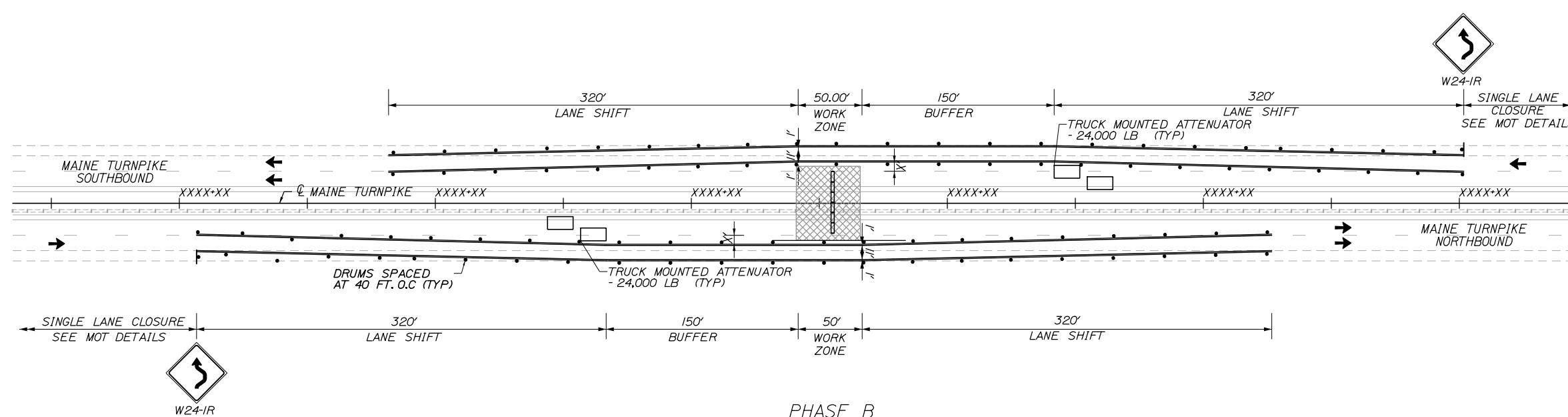
Date: 9/8/2021

NOTES:

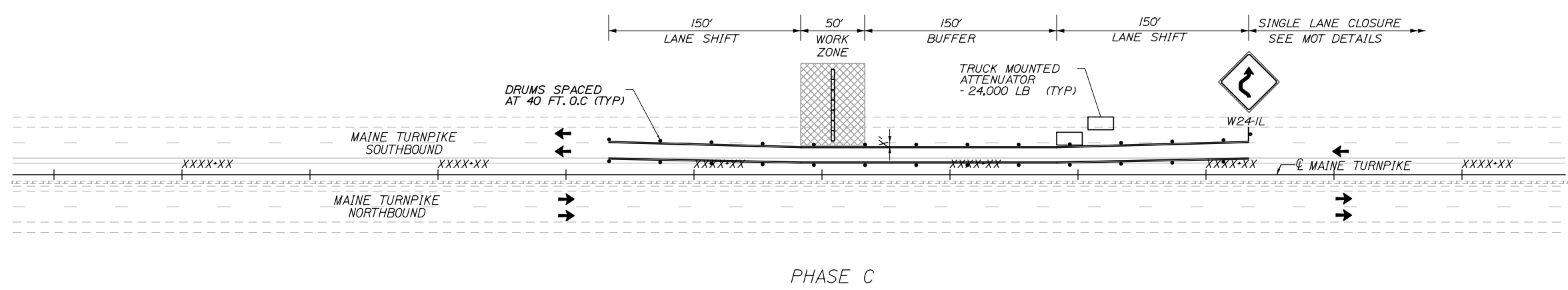
1. LANE CLOSURES SHALL BE SIGNED FOR 45 MPH AND MAY ONLY OCCUR AT NIGHT AND LANES MUST BE REOPENED FOR THE NEXT DAY. SEE SPECIAL PROVISION 652.
2. CROSS CULVERT INSTALLATION WILL TAKE MORE THAN ONE NIGHT. DURING THE FIRST NIGHT THE CULVERT SHALL BE INSTALLED AND TRENCH BACKFILLED AND PAVED WITH 4" OF HMA AS SHOWN ON THE TYPICAL SECTIONS. FINAL PAVING SHALL BE COMPLETED WITHIN 14 DAYS OF COMPLETION OF CULVERT INSTALLATION.
3. FOR NIGHT LANE CLOSURES TEMPORARY STRIPING IS NOT REQUIRED.
4. CROSS CULVERT INSTALLATION SHALL BE COMPLETED PRIOR TO THE WIDENING PAVING WORK OF PHASE 1A.
5. THE LENGTH OF PIPE INSTALLATION PER PHASE SHALL BE ENOUGH SO THAT THE SUBSEQUENT PHASE WILL NOT NEED TO DISRUPT THE ADJACENT TRAFFIC.
6. SHOULDER AND LANE WIDTHS INDICATED ON THIS SHEET ARE MINIMUM REQUIRED DIMENSIONS.
7. DURING PHASE B THE EXISTING MEDIAN GUARDRAIL WILL NEED TO BE REMOVED AND REINSTALLED PRIOR TO ADVANCING TO PHASE C. SHOULD PHASE B TAKE MORE THAN ONE NIGHT, TEMPORARY BARRIER WILL NEED TO BE PLACED OR THE EXISTING GUARDRAIL REINSTALLED.
8. PIPE INSTALLATION MAY ONLY BE UNDER ONE BOUND OF THE TURNPIKE AND THEREFORE ONLY REQUIRE EITHER PHASE A OR C AND PORTION OF PHASE B. ALL PHASES SHOWN FOR CLARITY.



PHASE A



PHASE B



PHASE C

Filename: PAW2_DETAILS_MOT-06

Scale: NOT TO SCALE

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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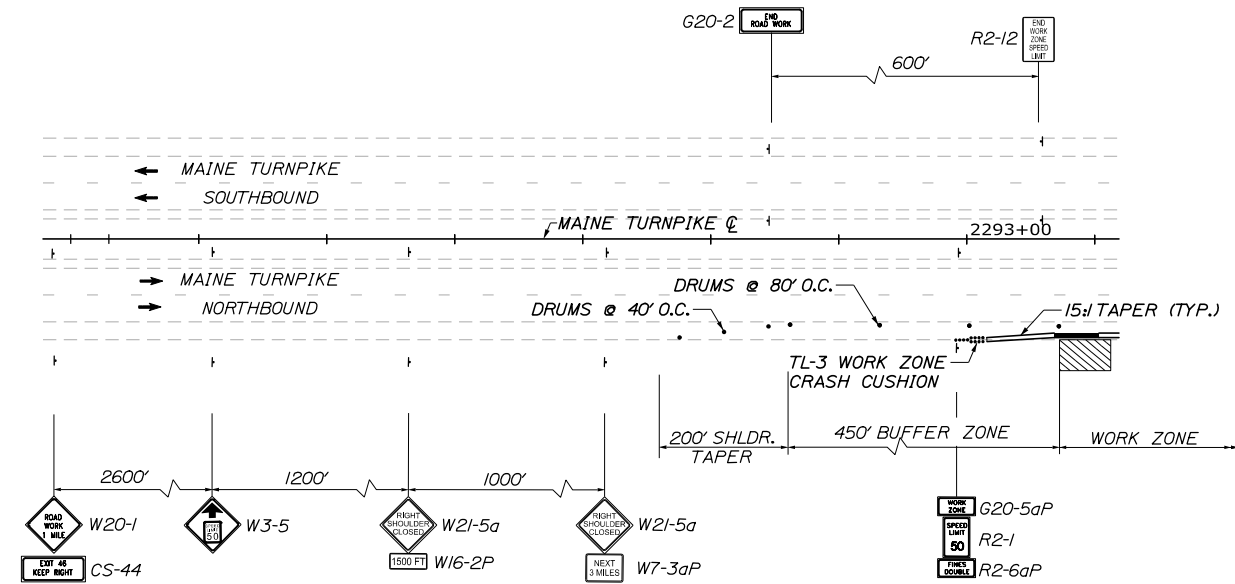
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

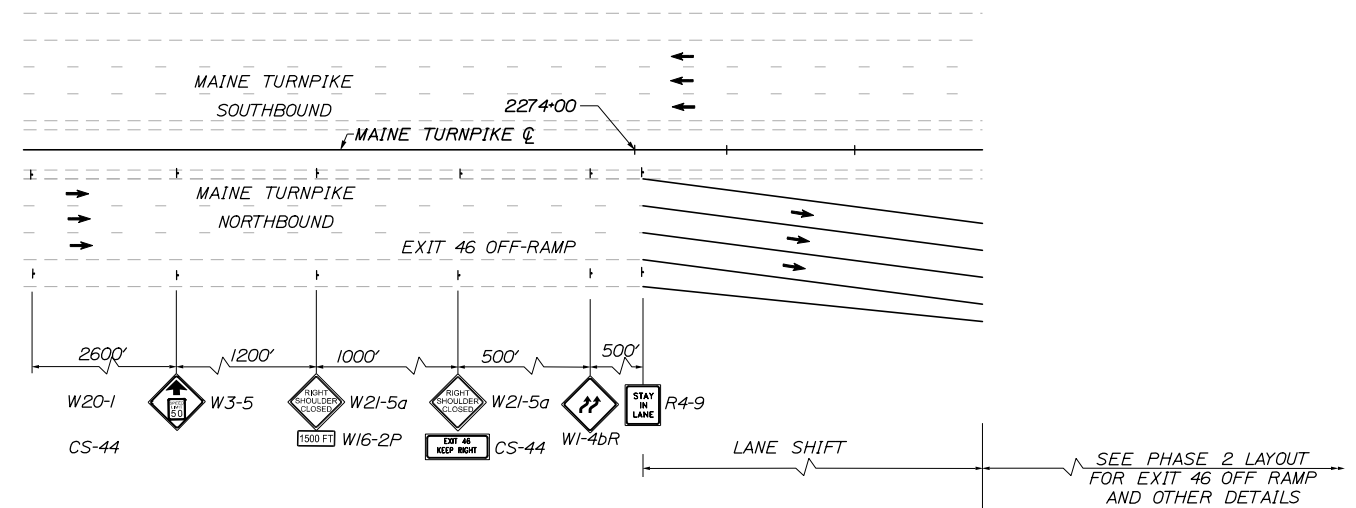
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 MAINLINE CROSS CULVERT

SHEET NUMBER: MOT-06
 CONTRACT: 2021.08
 14 OF 376

Date: 9/8/2021



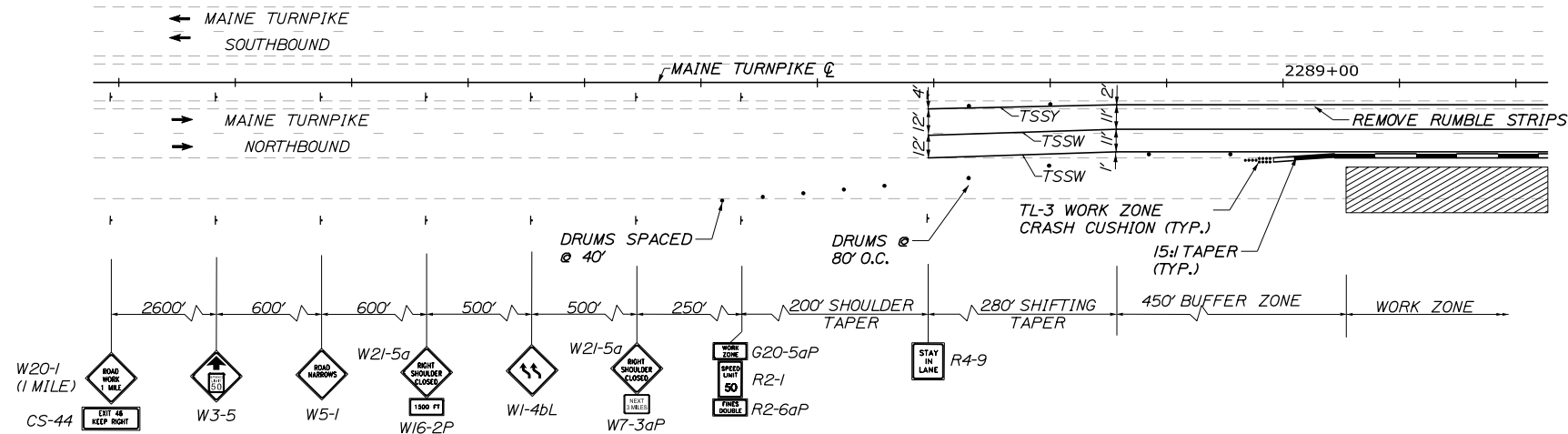
PHASE 1A - NB BEGINNING OF PROJECT



PHASE 2 - NB BEGINNING OF PROJECT

NOTES:

- THE LANE LINES (TSSW) SHALL BE SOLID THROUGH THE LANE SHIFT AND FOR A MINIMUM OF 300 FEET BEFORE/AFTER EACH LANE SHIFT THEN SHALL TRANSITION TO BROKEN (TSBW) WHITE LANE LINES.



PHASE 1B - NB BEGINNING OF PROJECT

Filename: PAW2_DETAILS_MOT-07

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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Designed	MS	09\21	Checked	PJS	09\21
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE DETAILS

SHEET NUMBER: MOT-07
 CONTRACT: 2021.08
 15 OF 376

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-08

PHASE IA QUANTITIES

ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1
 STA 2294+00 LT. TO STA 2428+00 LT.
 STA 2292+50 RT. TO STA 2425+50 RT. LF 7520 6013

ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY THE AUTHORITY
 STA 2294+00 LT. TO STA 2428+00 LT. (4000 LF)
 STA 2292+50 RT. TO STA 2425+50 RT. (4000 LF)

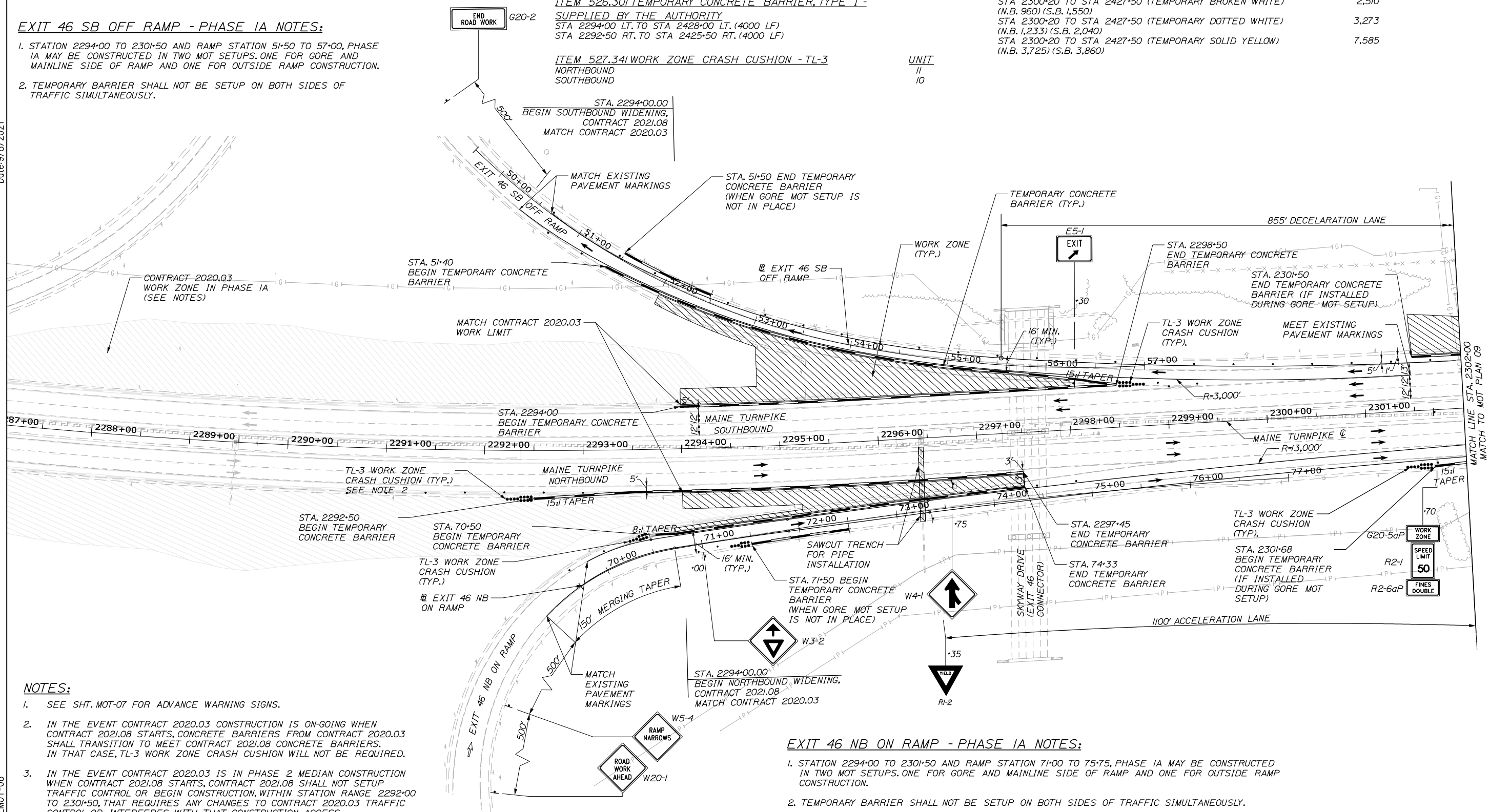
ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3
 NORTHBOUND UNIT 11 SOUTHBOUND UNIT 10

PHASE IA QUANTITIES

ITEM 627.78 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW LF 21,326
 STA 2300+20 TO STA 2427+50 (TEMPORARY SOLID WHITE) (N.B. 10,098) (S.B. 11,228) 2,510
 STA 2300+20 TO STA 2427+50 (TEMPORARY BROKEN WHITE) (N.B. 960) (S.B. 1,550) 3,273
 STA 2300+20 TO STA 2427+50 (TEMPORARY DOTTED WHITE) (N.B. 1,233) (S.B. 2,040) 7,585
 STA 2300+20 TO STA 2427+50 (TEMPORARY SOLID YELLOW) (N.B. 3,725) (S.B. 3,860)

EXIT 46 SB OFF RAMP - PHASE IA NOTES:

- STATION 2294+00 TO 2301+50 AND RAMP STATION 51+50 TO 57+00, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS, ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
- TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

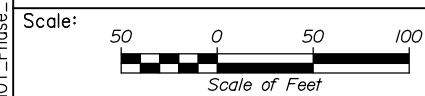


NOTES:

- SEE SHT. MOT-07 FOR ADVANCE WARNING SIGNS.
- IN THE EVENT CONTRACT 2020.03 CONSTRUCTION IS ON-GOING WHEN CONTRACT 2021.08 STARTS, CONCRETE BARRIERS FROM CONTRACT 2020.03 SHALL TRANSITION TO MEET CONTRACT 2021.08 CONCRETE BARRIERS. IN THAT CASE, TL-3 WORK ZONE CRASH CUSHION WILL NOT BE REQUIRED.
- IN THE EVENT CONTRACT 2020.03 IS IN PHASE 2 MEDIAN CONSTRUCTION WHEN CONTRACT 2021.08 STARTS, CONTRACT 2021.08 SHALL NOT SETUP TRAFFIC CONTROL OR BEGIN CONSTRUCTION WITHIN STATION RANGE 2292+00 TO 2301+50, THAT REQUIRES ANY CHANGES TO CONTRACT 2020.03 TRAFFIC CONTROL OR INTERFERES WITH THAT CONSTRUCTION ACCESS.

EXIT 46 NB ON RAMP - PHASE IA NOTES:

- STATION 2294+00 TO 2301+50 AND RAMP STATION 71+00 TO 75+75, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS, ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
- TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
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Drawn	GW	09\21	In Charge of	TRC 09\21

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1A (MATCHING EXISTING)

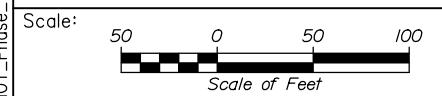
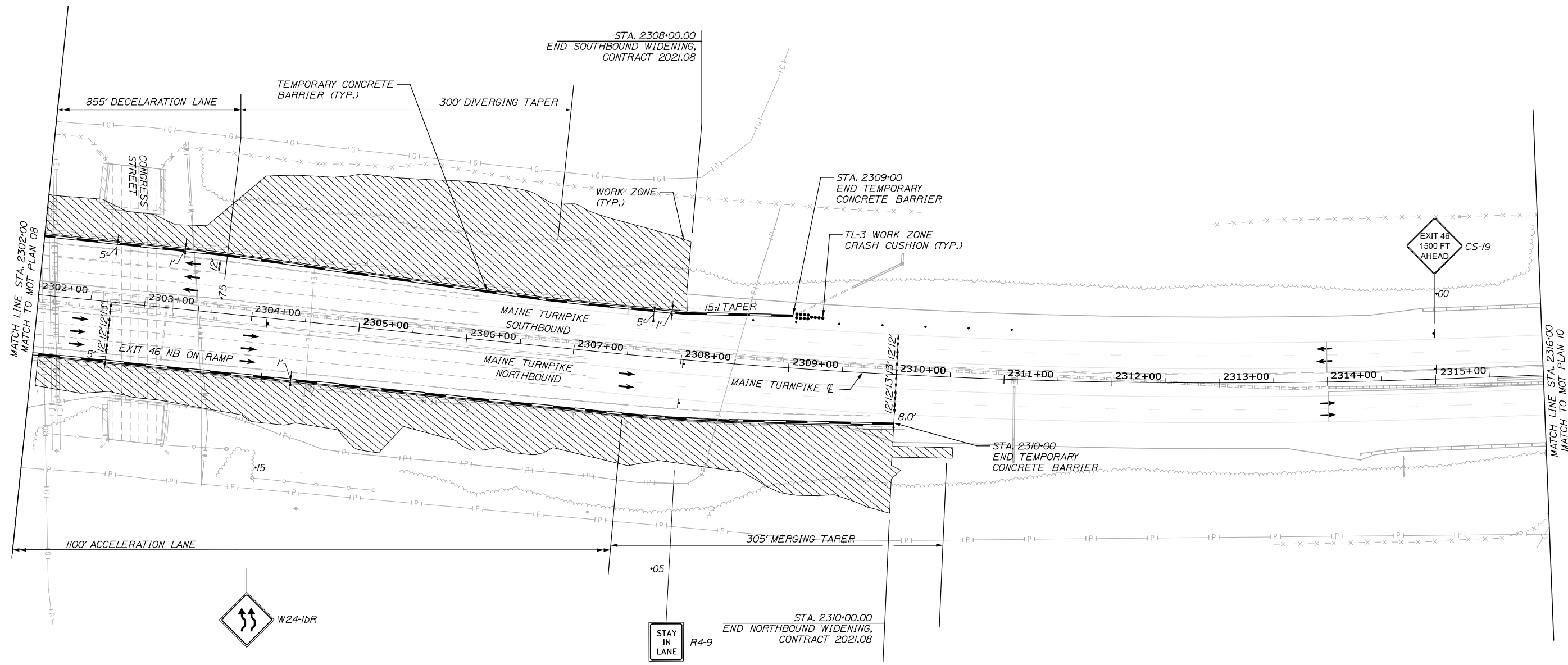
SHEET NUMBER: MOT-08
 16 OF 376

CONTRACT: 2021.08



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1A (MATCH EXISTING)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
Designed	MS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

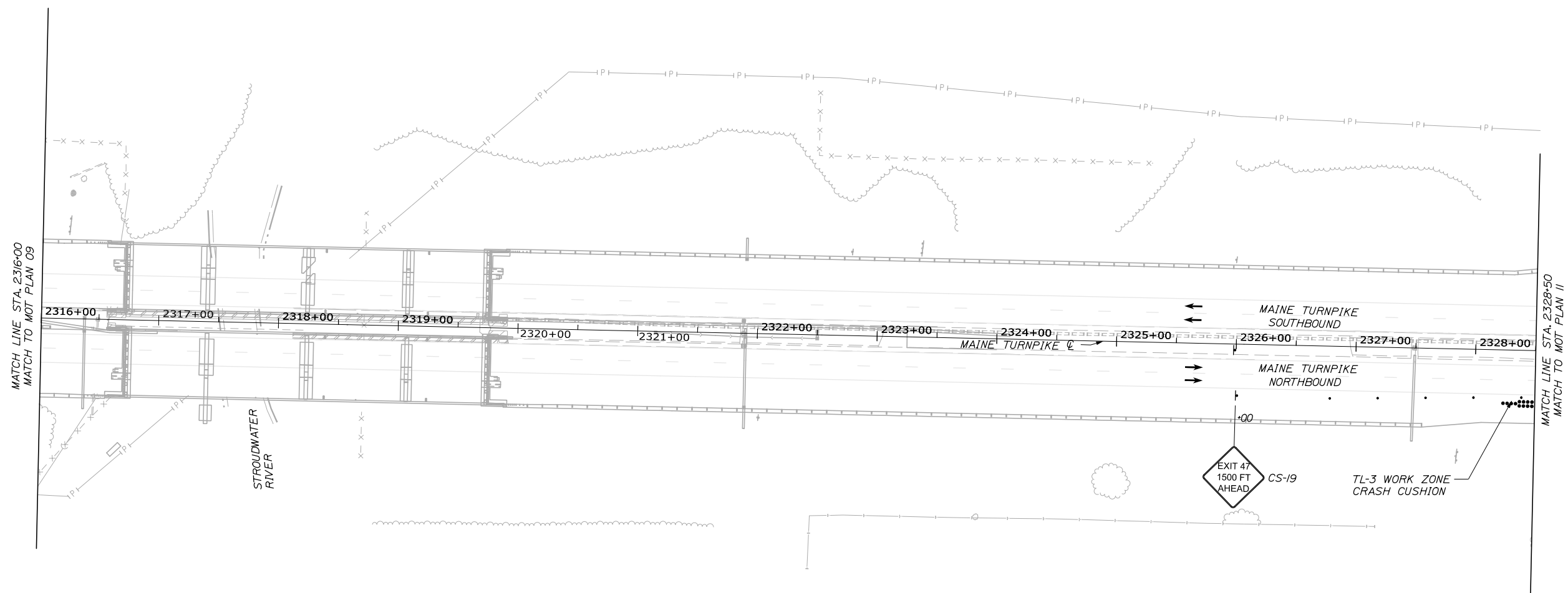
CONTRACT: 2021.08

SHEET NUMBER: MOT-09

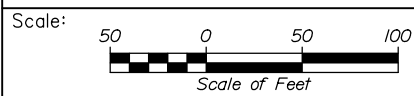
17 OF 376



Date: 9/8/2021



Filename: PAW2_MOT_Phase_1A_MOT-10.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1A

No.	Revision	By	Date

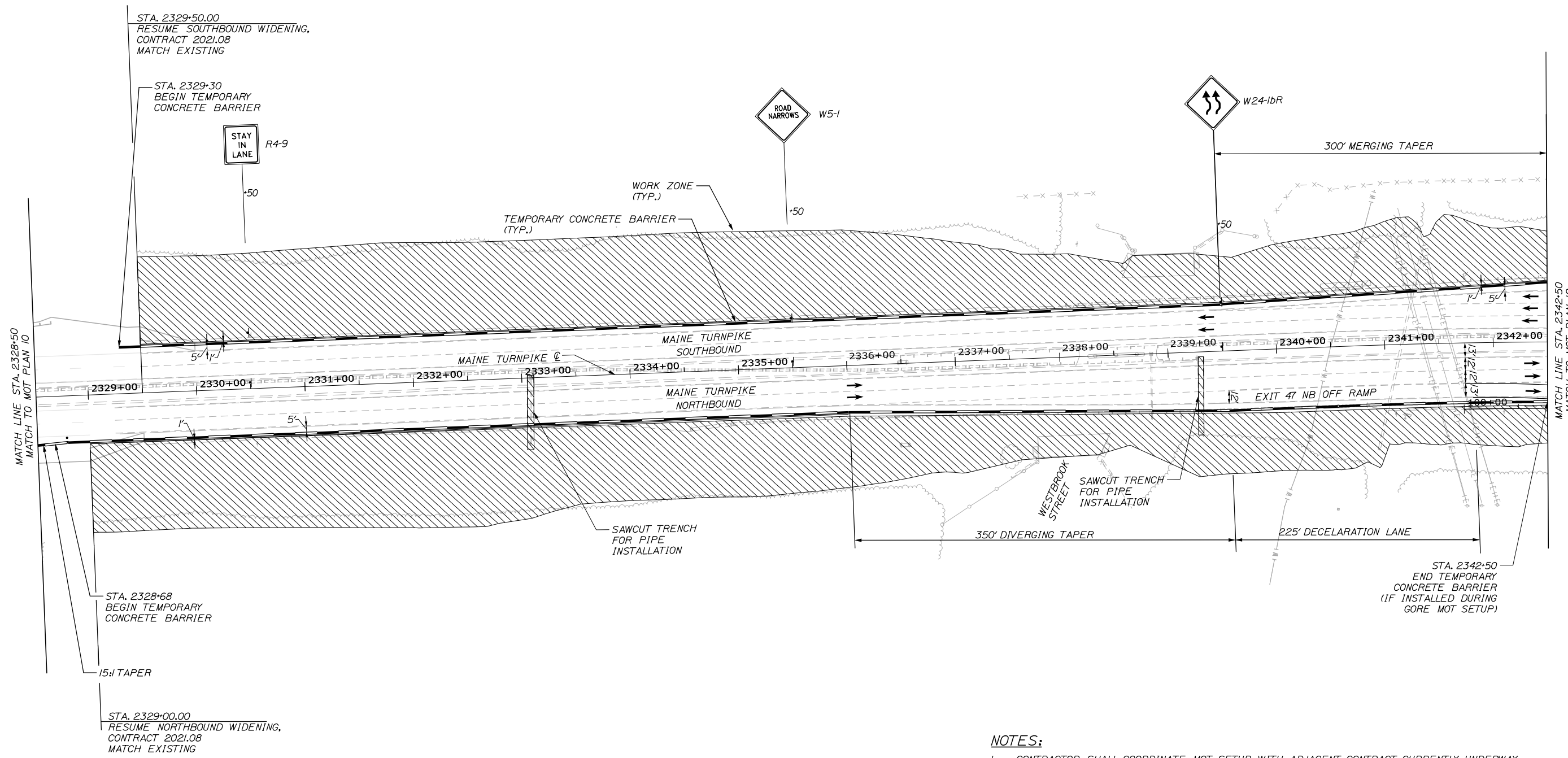
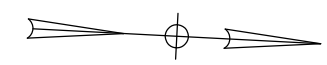
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACTS: 2021.08

SHEET NUMBER: MOT-10

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STA. 2329+50.00
RESUME SOUTHBOUND WIDENING,
CONTRACT 2021.08
MATCH EXISTING

STA. 2329+30
BEGIN TEMPORARY
CONCRETE BARRIER

STAY
IN
LANE
R4-9

ROAD
NARROWS
W5-1

W24-1bR

300' MERGING TAPER

WORK ZONE
(TYP.)

TEMPORARY CONCRETE BARRIER
(TYP.)

MAINE TURNPIKE
SOUTHBOUND

MAINE TURNPIKE
NORTHBOUND

EXIT 47 NB OFF RAMP

WESTBROOK
STREET

SAWCUT TRENCH
FOR PIPE
INSTALLATION

SAWCUT TRENCH
FOR PIPE
INSTALLATION

350' DIVERGING TAPER

225' DECELERATION LANE

STA. 2342+50
END TEMPORARY
CONCRETE BARRIER
(IF INSTALLED DURING
GORE MOT SETUP)

STA. 2328+68
BEGIN TEMPORARY
CONCRETE BARRIER

15:1 TAPER

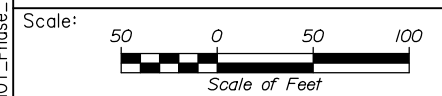
STA. 2329+00.00
RESUME NORTHBOUND WIDENING,
CONTRACT 2021.08
MATCH EXISTING

NOTES:

- CONTRACTOR SHALL COORDINATE MOT SETUP WITH ADJACENT CONTRACT, CURRENTLY UNDERWAY, 2021.02 WATER LINE AND UTILITY VAULTS, APPROXIMATE STATION 2338+00 TO 2342+00 RIGHT, AND 2339+00 TO 2346+00 LEFT, INCLUDING APPROACH SIGNAGE.

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-11.dgn



Designed by:



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**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1A

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

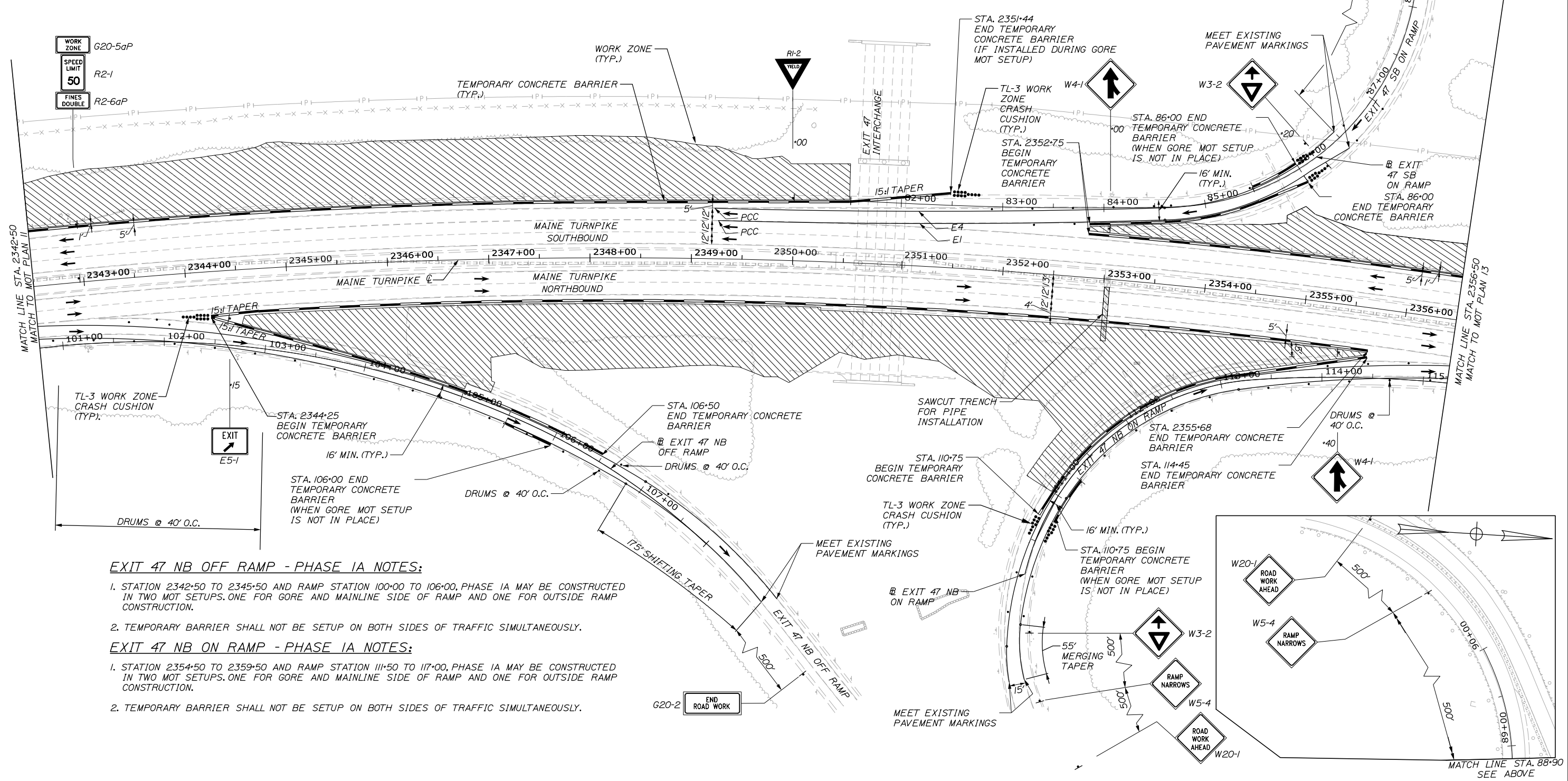
CONTRACTS: 2021.08

SHEET NUMBER: MOT-11

19 OF 376

EXIT 47 SB ON RAMP - PHASE IA NOTES:

1. STATION 2350+50 TO 2354+00 AND RAMP STATION 81+50 TO 85+02, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS. ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.



EXIT 47 NB OFF RAMP - PHASE IA NOTES:

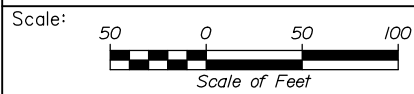
1. STATION 2342+50 TO 2345+50 AND RAMP STATION 100+00 TO 106+00, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS. ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

EXIT 47 NB ON RAMP - PHASE IA NOTES:

1. STATION 2354+50 TO 2359+50 AND RAMP STATION 111+50 TO 117+00, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS. ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-12.dgn



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1A

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	MS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

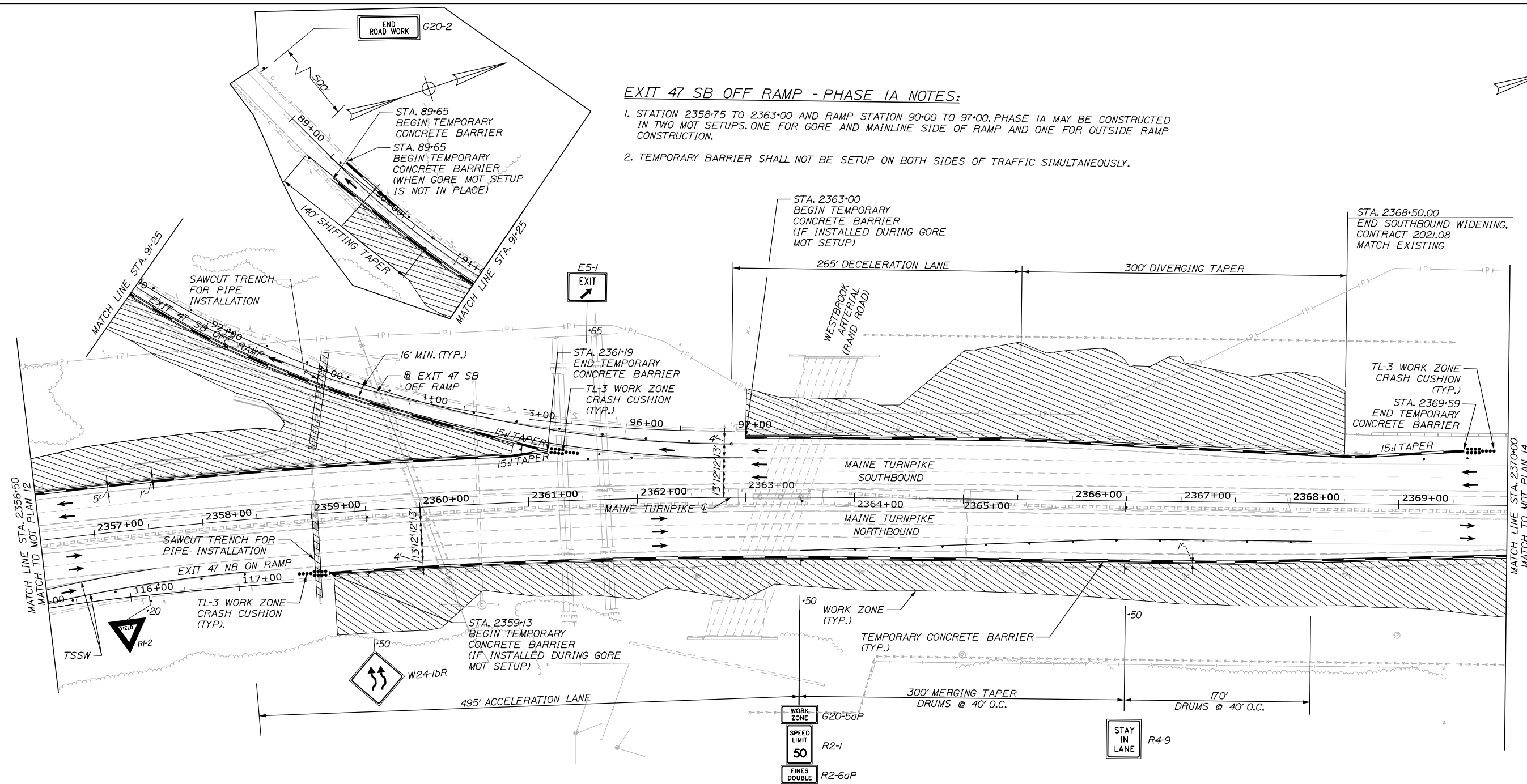
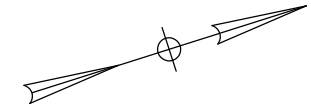
CONTRACTS: 2021.08

SHEET NUMBER: MOT-12

20 OF 376

EXIT 47 SB OFF RAMP - PHASE 1A NOTES:

1. STATION 2358+75 TO 2363+00 AND RAMP STATION 90+00 TO 97+00, PHASE 1A MAY BE CONSTRUCTED IN TWO MOT SETUPS. ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

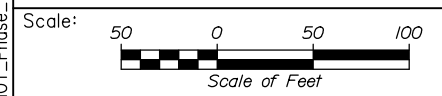


NOTES:

1. CONTRACTOR SHALL COORDINATE MOT SETUP WITH ADJACENT CONTRACT, CURRENTLY UNDERWAY, 2021.02 WATER LINE AND UTILITY VAULTS, APPROXIMATE STATION 2357+50 TO 2362+00 RIGHT, INCLUDING APPROACH SIGNAGE.

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-13.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

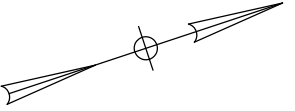
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

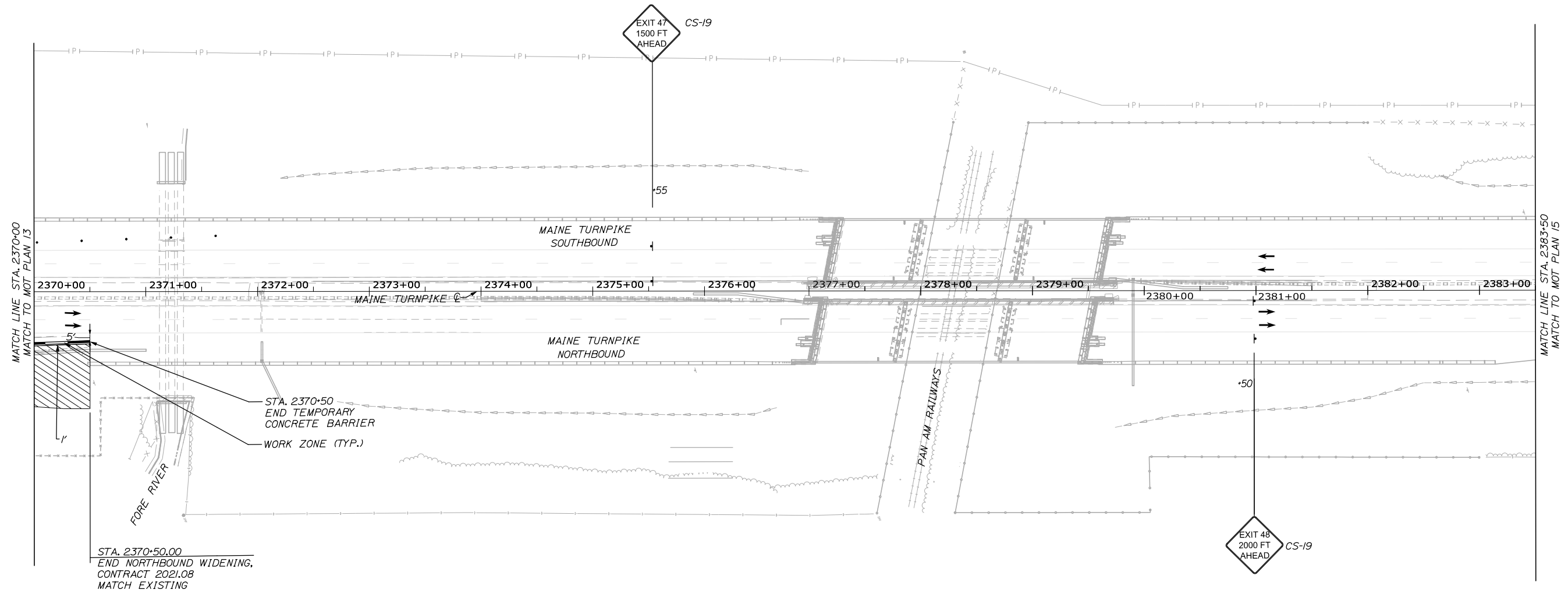
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1A

SHEET NUMBER: MOT-13
 21 OF 376

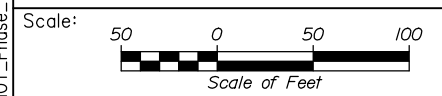
CONTRACTS: 2021.08



Date: 9/8/2021



Filename: PAW2_MOT_Phase_1A_MOT-14.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

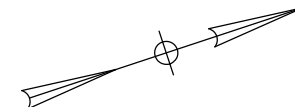
HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

THE GOLD STAR
MEMORIAL HIGHWAY

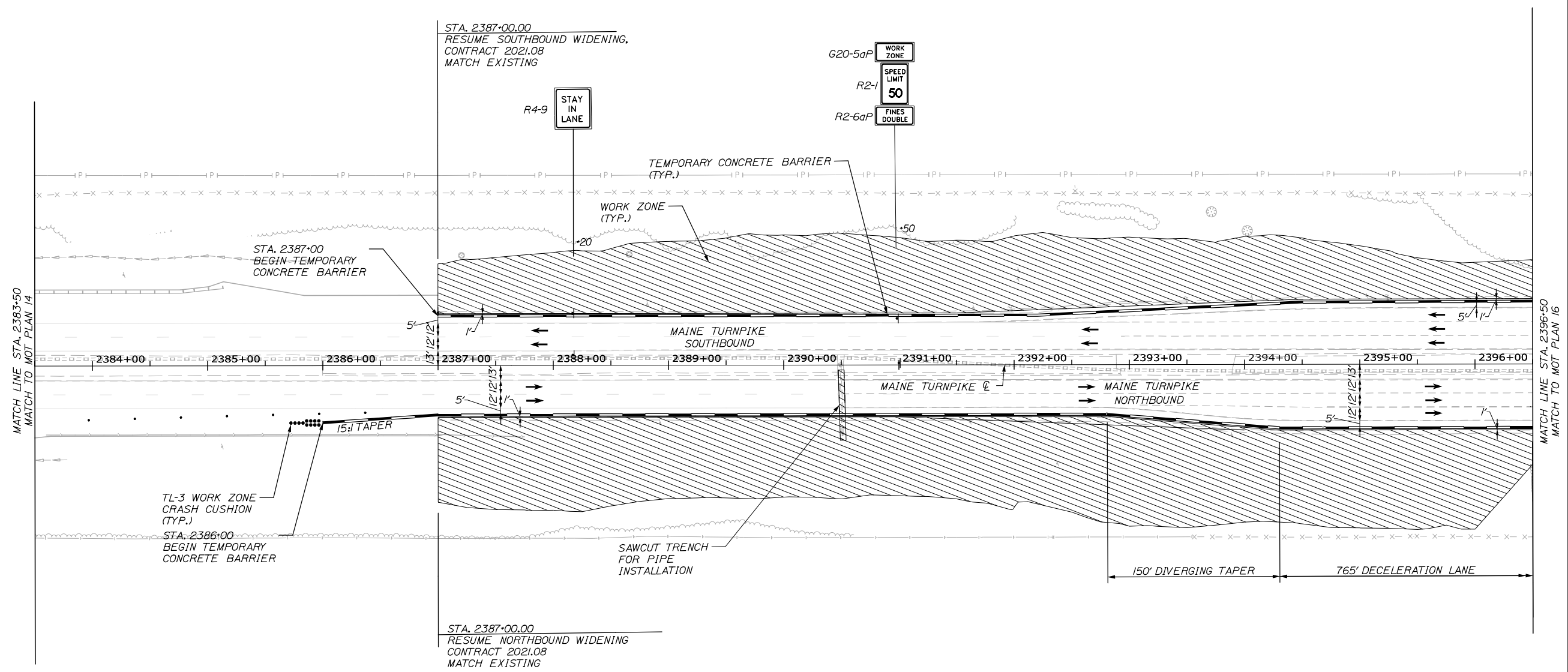
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1A

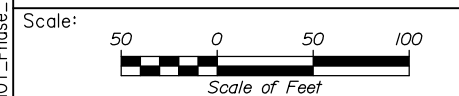
SHEET NUMBER: MOT-14
CONTRACTS: 2021.08
22 OF 376



Date: 9/8/2021



Filename: PAW2_MOT_Phase_1A_MOT-15.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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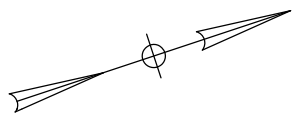
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1A

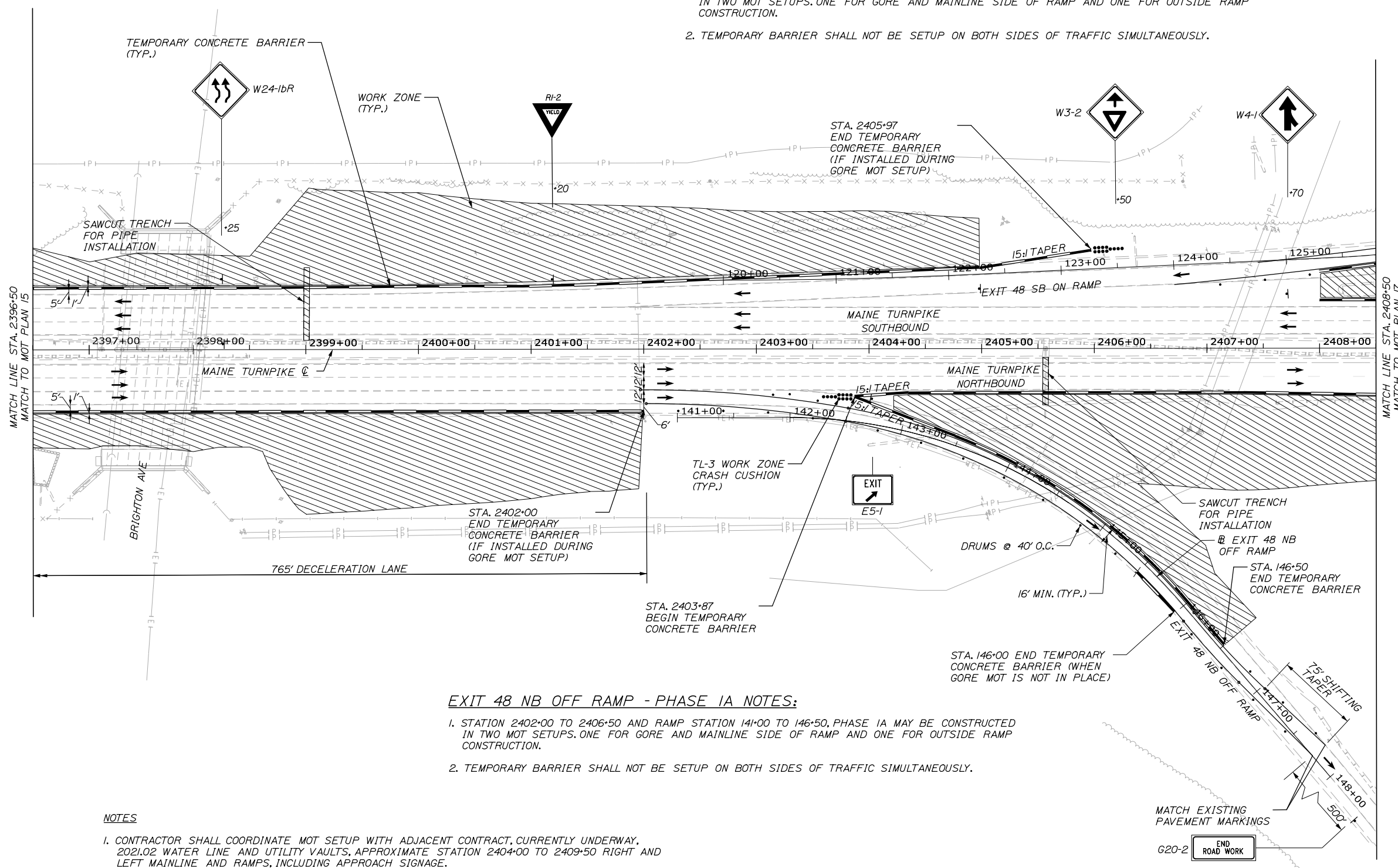
SHEET NUMBER: MOT-15
 23 OF 376

CONTRACTS: 2021.08



EXIT 48 SB ON RAMP - PHASE IA NOTES:

1. STATION 2405+00 TO 2408+50 AND RAMP STATION 122+50 TO 130+00, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS, ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.



EXIT 48 NB OFF RAMP - PHASE IA NOTES:

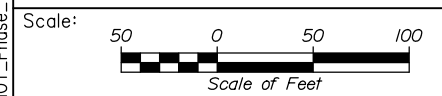
1. STATION 2402+00 TO 2406+50 AND RAMP STATION 141+00 TO 146+50, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS, ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

NOTES

1. CONTRACTOR SHALL COORDINATE MOT SETUP WITH ADJACENT CONTRACT, CURRENTLY UNDERWAY, 2021.02 WATER LINE AND UTILITY VAULTS, APPROXIMATE STATION 2404+00 TO 2409+50 RIGHT AND LEFT MAINLINE AND RAMPS, INCLUDING APPROACH SIGNAGE.

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-16.dgn



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

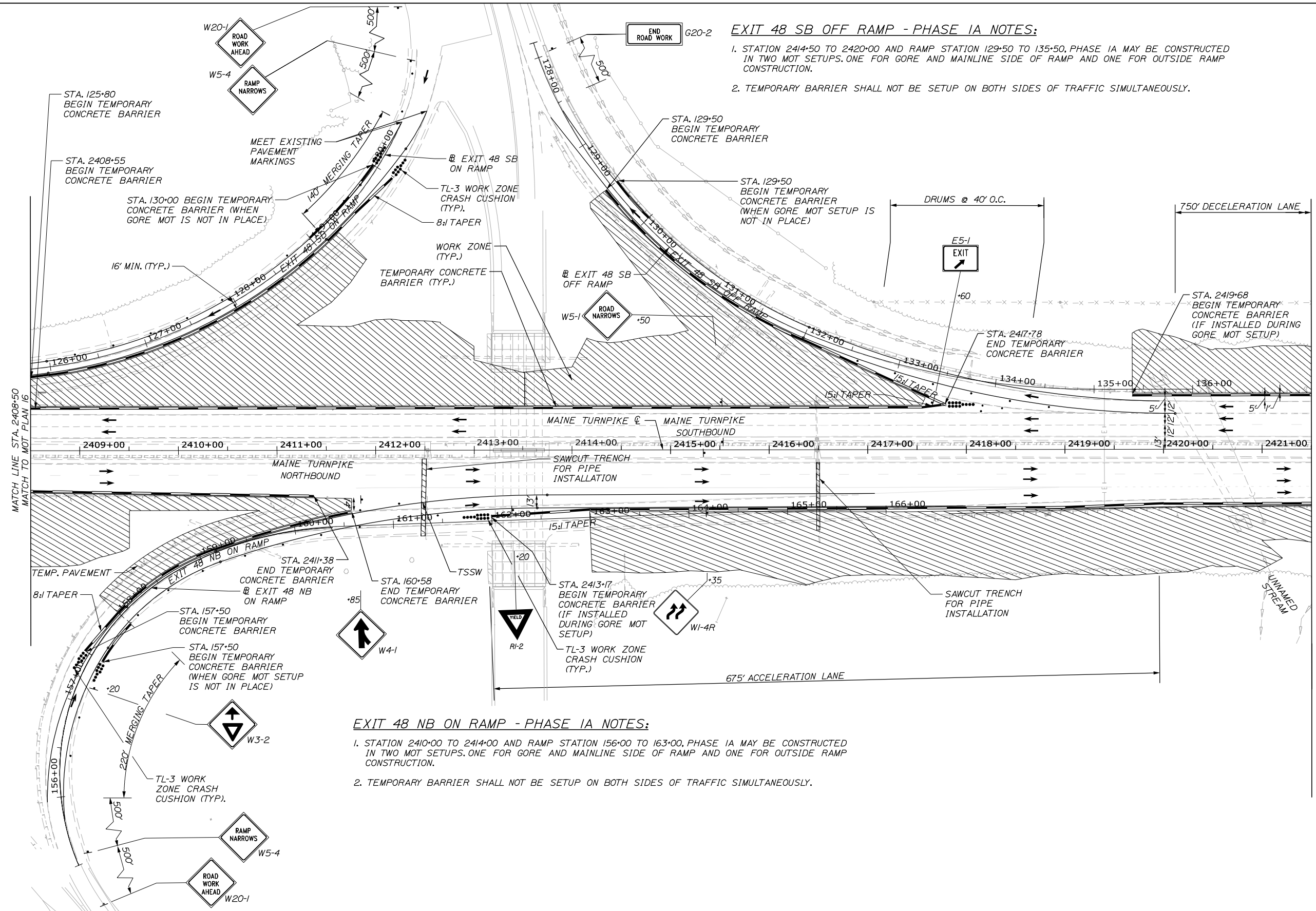
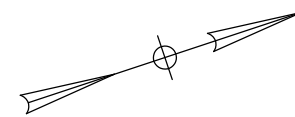
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1A

SHEET NUMBER: MOT-16
24 OF 376

CONTRACTS: 2021.08

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-17.dgn

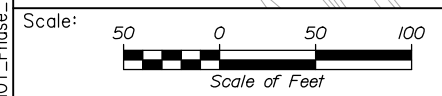


EXIT 48 SB OFF RAMP - PHASE IA NOTES:

1. STATION 2414+50 TO 2420+00 AND RAMP STATION 129+50 TO 135+50, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS. ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

EXIT 48 NB ON RAMP - PHASE IA NOTES:

1. STATION 2410+00 TO 2414+00 AND RAMP STATION 156+00 TO 163+00, PHASE IA MAY BE CONSTRUCTED IN TWO MOT SETUPS. ONE FOR GORE AND MAINLINE SIDE OF RAMP AND ONE FOR OUTSIDE RAMP CONSTRUCTION.
2. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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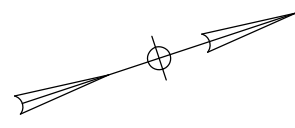
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

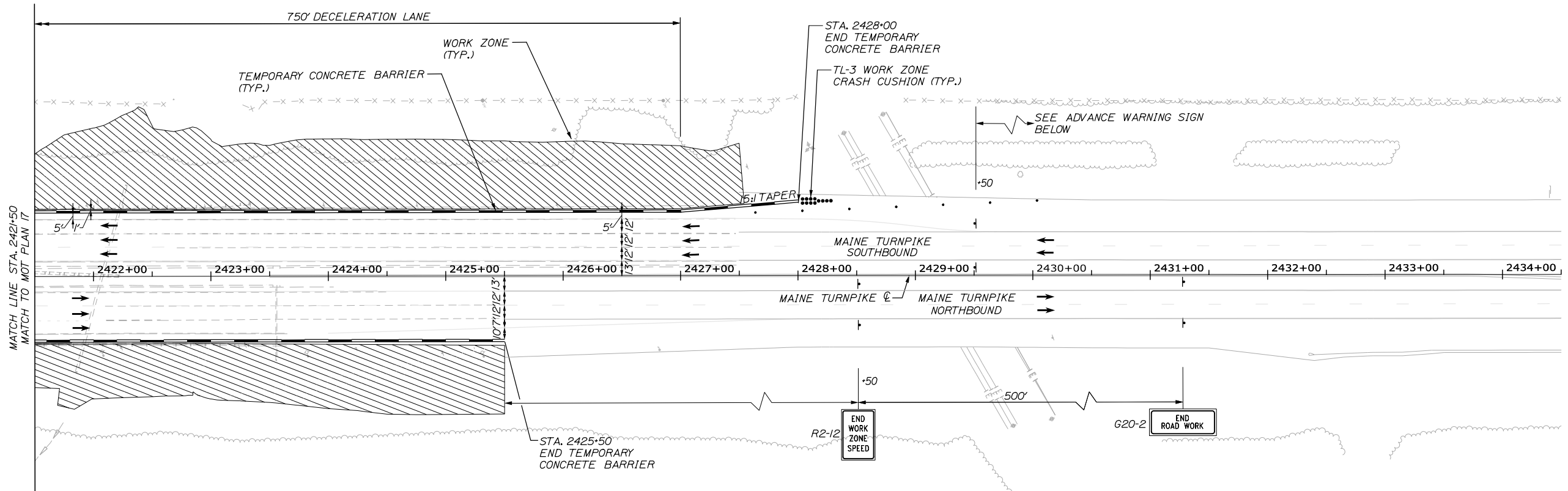
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1A

CONTRACTS: 2021.08

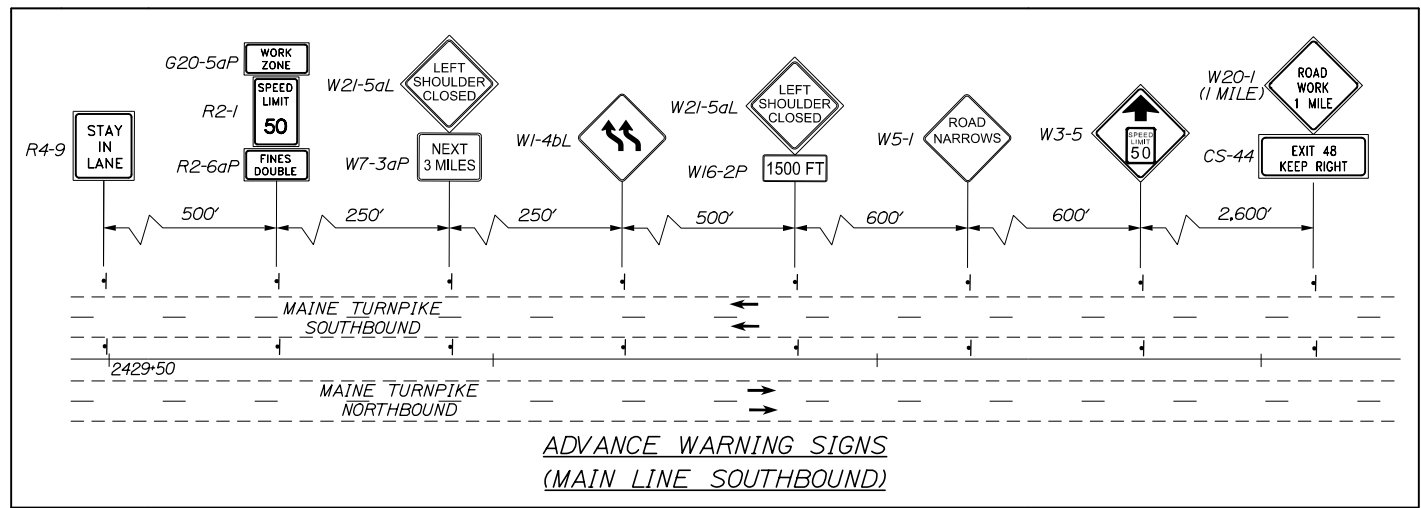
SHEET NUMBER: MOT-17
25 OF 376



STA. 2427+50.00
 END SOUTHBOUND WIDENING,
 CONTRACT 2021.08
 MATCH EXISTING (CONTRACT 2019.10)

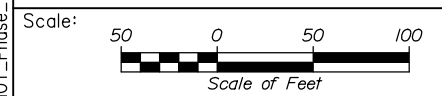


STA. 2425+50.00
 END NORTHBOUND WIDENING,
 CONTRACT 2021.08
 MATCH EXISTING (CONTRACT 2019.10)



Date: 9/8/2021

Filename: PAW2_MOT_Phase_1A_MOT-18.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 FAX (207) 228-0909

**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1A

SHEET NUMBER: MOT-18
 26 OF 376

CONTRACTS: 2021.08

PHASE 1B QUANTITIES

ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1
 STA 2329+50, LT. TO 2417+25 LT. (4000 LF)
 STA 2298+00, RT. TO 2425+50 RT. (4000 LF)

LF
140
1675

ITEM 627.77 REMOVE EXISTING PAVEMENT MARKING
 STA 2286+75 TO STA 2427+00
 (N.B. 7,476) (S.B. 8,568)

SF
16,045

ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY THE AUTHORITY

STA 2329+50, LT. TO 2417+25 LT. (4000 LF)
 STA 2298+00, RT. TO 2425+50 RT. (4000 LF)

ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3
 NORTHBOUND
 SOUTHBOUND



EXIT 46 SB OFF RAMP - PHASE 1B NOTES:

1. A 5-DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP, DECELERATION LANE, AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 52+75 TO 57+00 AND MAINLINE STATION 2294+00 TO AT LEAST 2308+00.
2. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC

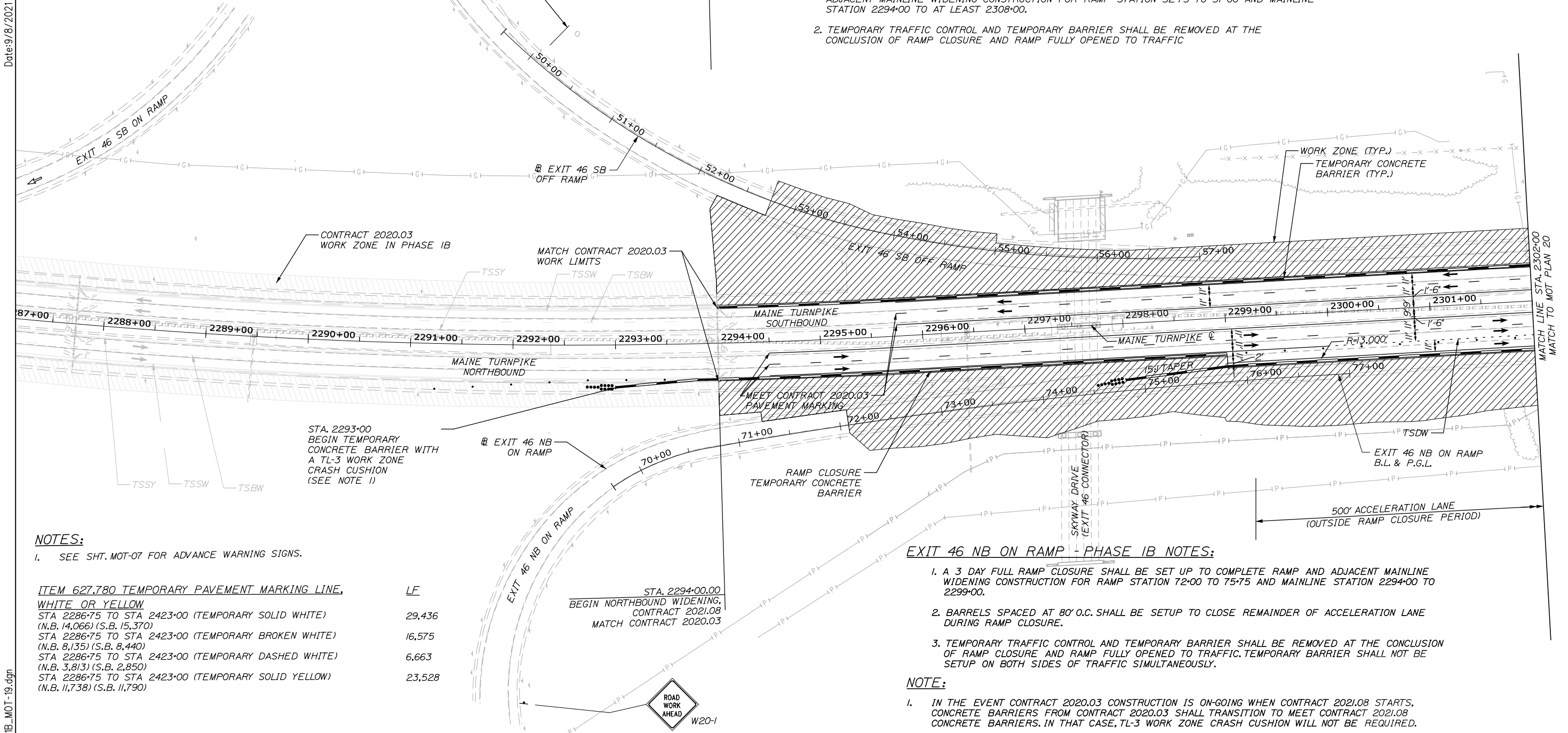
EXIT 46 NB ON RAMP - PHASE 1B NOTES:

1. A 3 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 72+00 TO 75+75 AND MAINLINE STATION 2294+00 TO 2299+00.
2. BARRELS SPACED AT 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF ACCELERATION LANE DURING RAMP CLOSURE.
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

NOTE:

1. IN THE EVENT CONTRACT 2020.03 CONSTRUCTION IS ON-GOING WHEN CONTRACT 2021.08 STARTS, CONCRETE BARRIERS FROM CONTRACT 2020.03 SHALL TRANSITION TO MEET CONTRACT 2021.08 CONCRETE BARRIERS. IN THAT CASE, TL-3 WORK ZONE CRASH CUSHION WILL NOT BE REQUIRED.

Date: 9/8/2021



NOTES:

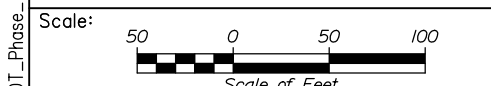
1. SEE SHT. MOT-07 FOR ADVANCE WARNING SIGNS.

ITEM 627.780 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW

STA 2286+75 TO STA 2423+00 (TEMPORARY SOLID WHITE) (N.B. 14,066) (S.B. 15,370)
 STA 2286+75 TO STA 2423+00 (TEMPORARY BROKEN WHITE) (N.B. 8,135) (S.B. 8,440)
 STA 2286+75 TO STA 2423+00 (TEMPORARY DASHED WHITE) (N.B. 3,813) (S.B. 2,850)
 STA 2286+75 TO STA 2423+00 (TEMPORARY SOLID YELLOW) (N.B. 11,738) (S.B. 11,790)

LF

29,436
16,575
6,663
23,528



Designed by:



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	Designed	MS 09\21		Checked	PJS 09\21
	Drawn	GW 09\21		In Charge of	TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: MOT-19

27 OF 376

Filename: PAW2_MOT_Phase_1B_MOT-19.dgn

PHASE 1B QUANTITIES

ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1
 STA 2329+50, LT. TO 2417+25 LT.
 STA 2298+00, RT. TO 2425+50 RT.

LF
 140
 1675

ITEM 627.77 REMOVE EXISTING PAVEMENT MARKING
 STA 2286+75 TO STA 2427+00
 (N.B. 7,476) (S.B. 8,568)

SF
 16,045



ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY THE AUTHORITY
 STA 2329+50, LT. TO 2417+25 LT. (4000 LF)
 STA 2298+00, RT. TO 2425+50 RT. (4000 LF)

ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3
 NORTHBOUND
 SOUTHBOUND

EXIT 46 SB OFF RAMP - PHASE 1B NOTES:

1. A 5 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 52+75 TO 57+00 AND MAINLINE STATION 2294+00 TO 2306+50.
2. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC

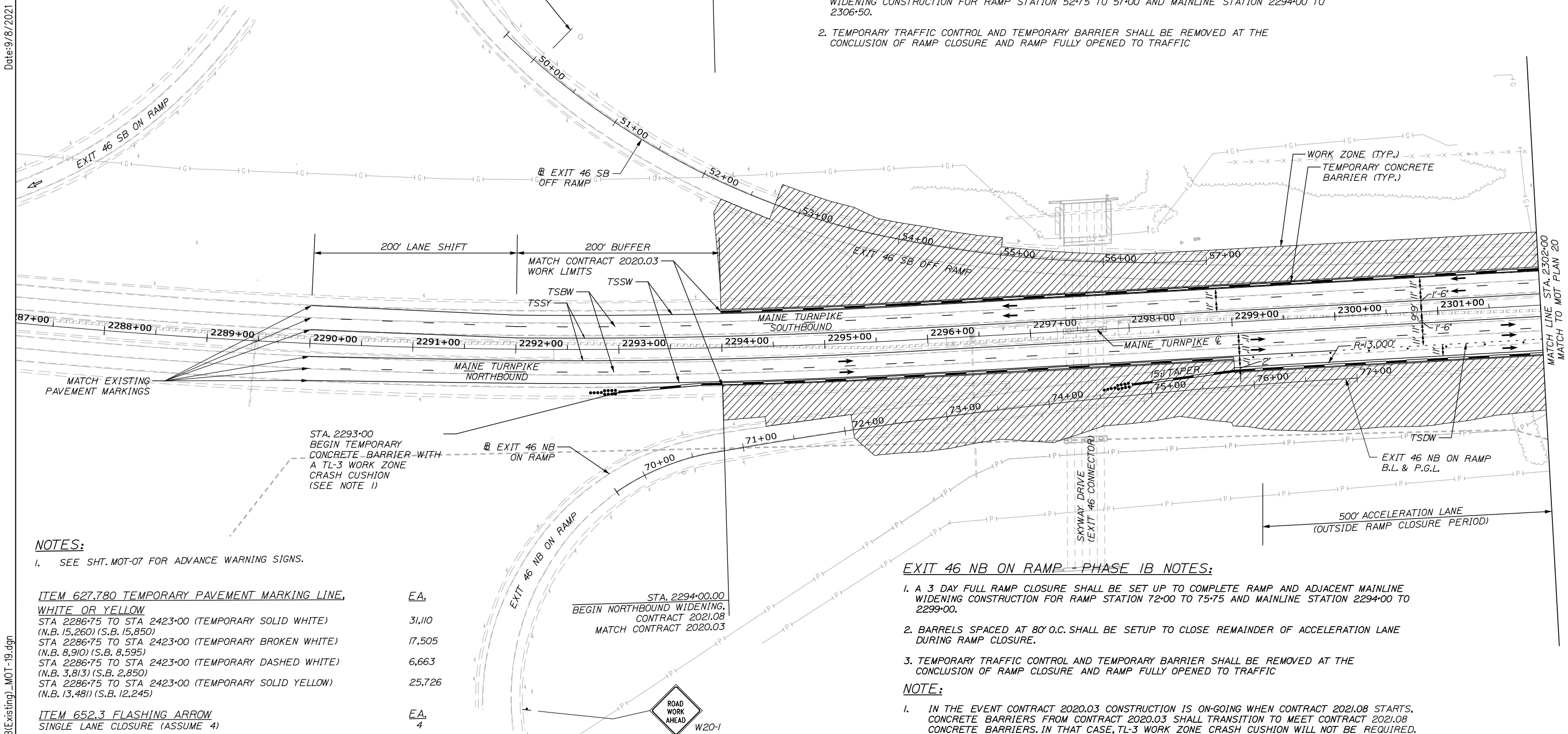
EXIT 46 NB ON RAMP - PHASE 1B NOTES:

1. A 3 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 72+00 TO 75+75 AND MAINLINE STATION 2294+00 TO 2299+00.
2. BARRELS SPACED AT 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF ACCELERATION LANE DURING RAMP CLOSURE.
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC

NOTE:

1. IN THE EVENT CONTRACT 2020.03 CONSTRUCTION IS ON-GOING WHEN CONTRACT 2021.08 STARTS, CONCRETE BARRIERS FROM CONTRACT 2020.03 SHALL TRANSITION TO MEET CONTRACT 2021.08 CONCRETE BARRIERS. IN THAT CASE, TL-3 WORK ZONE CRASH CUSHION WILL NOT BE REQUIRED.

Date: 9/8/2021



NOTES:

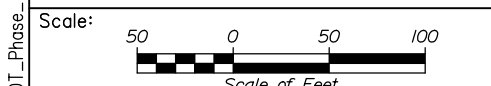
1. SEE SHT. MOT-07 FOR ADVANCE WARNING SIGNS.

ITEM 627.780 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW

EA	EA
STA 2286+75 TO STA 2423+00 (TEMPORARY SOLID WHITE) (N.B. 15,260) (S.B. 15,850)	31,110
STA 2286+75 TO STA 2423+00 (TEMPORARY BROKEN WHITE) (N.B. 8,910) (S.B. 8,595)	17,505
STA 2286+75 TO STA 2423+00 (TEMPORARY DASHED WHITE) (N.B. 3,813) (S.B. 2,850)	6,663
STA 2286+75 TO STA 2423+00 (TEMPORARY SOLID YELLOW) (N.B. 13,481) (S.B. 12,245)	25,726

ITEM 652.3 FLASHING ARROW
 SINGLE LANE CLOSURE (ASSUME 4)

EA
 4



Designed by:



HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
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 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B (MATCH EXISTING)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

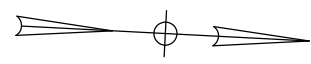
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

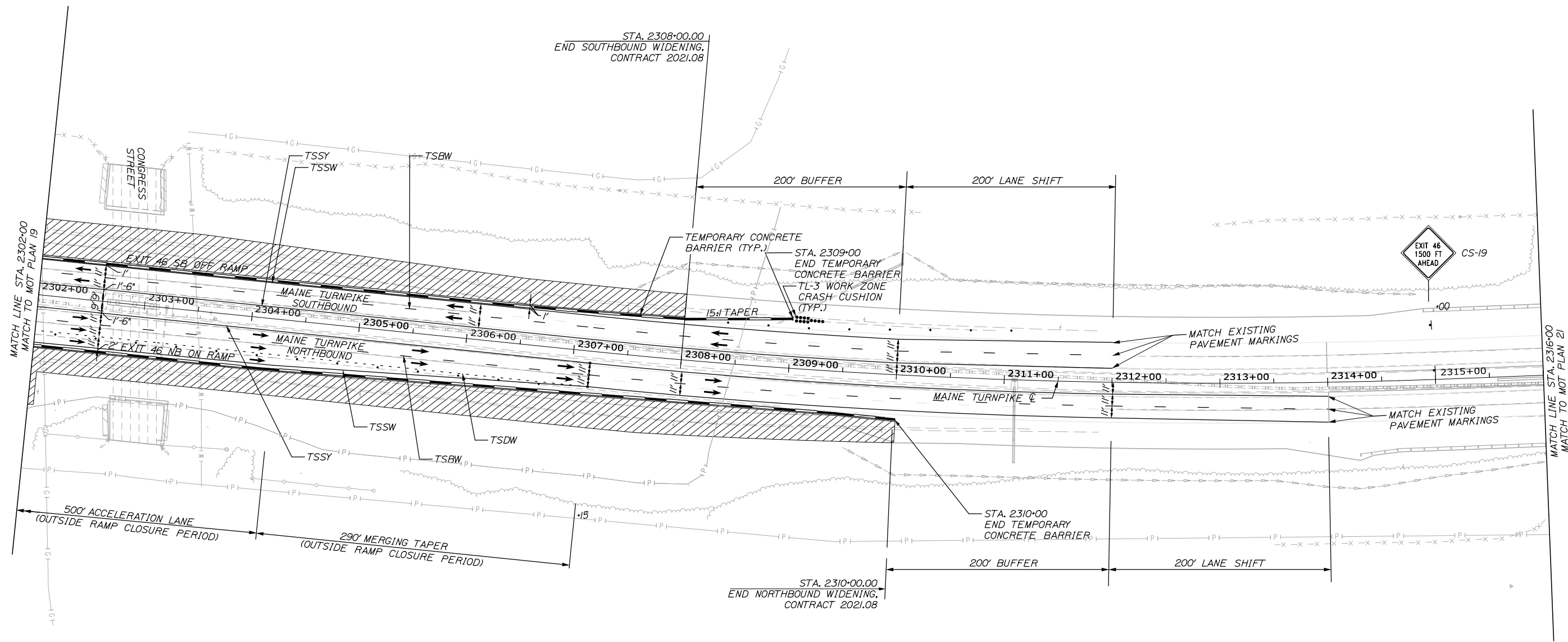
SHEET NUMBER: MOT-19A

28 OF 376

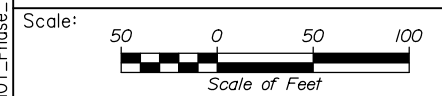
Filename: PAW2_MOT_Phase_1B(Existing)_MOT-19.dgn



Date: 9/8/2021



Filename: PAW2_MOT_Phase_1B_MOT-20.dgn



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	LAD	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

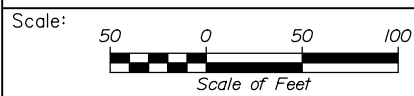
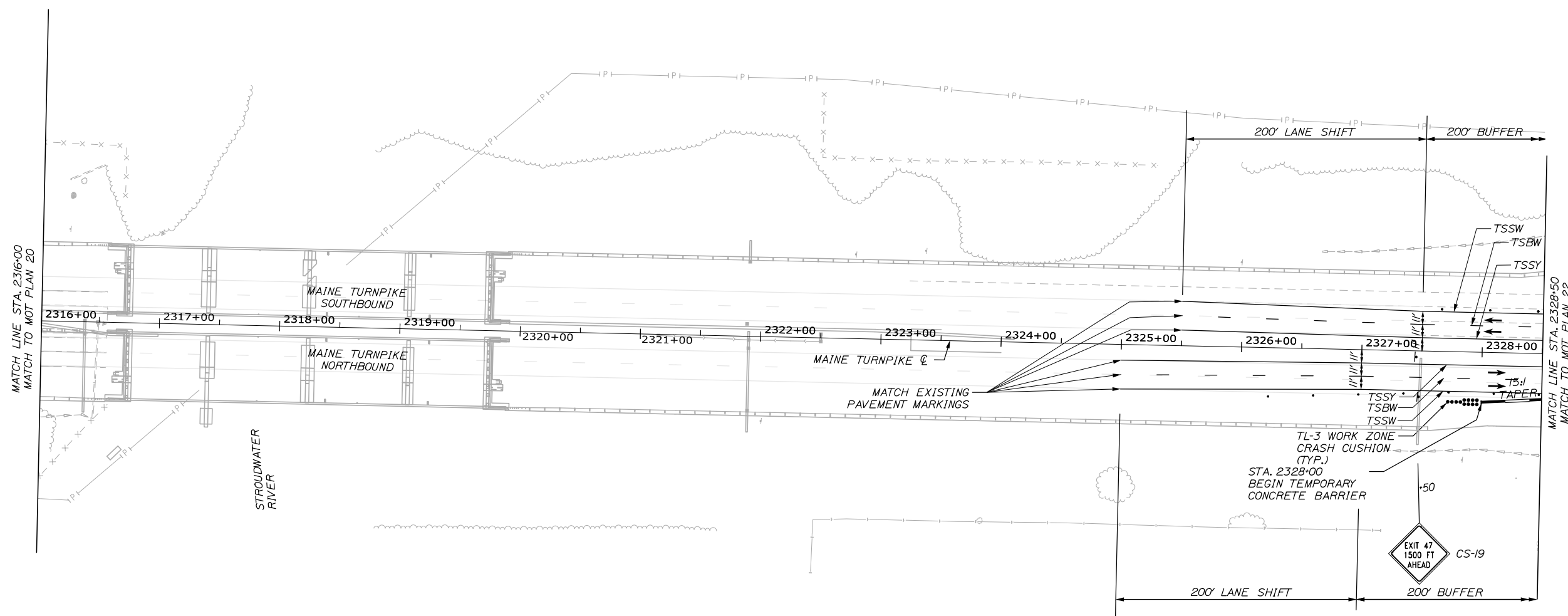
SHEET NUMBER: MOT-20

29 OF 376



Date: 9/8/2021

Filename: PAW2_MOT_Phase_1B_MOT-21.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

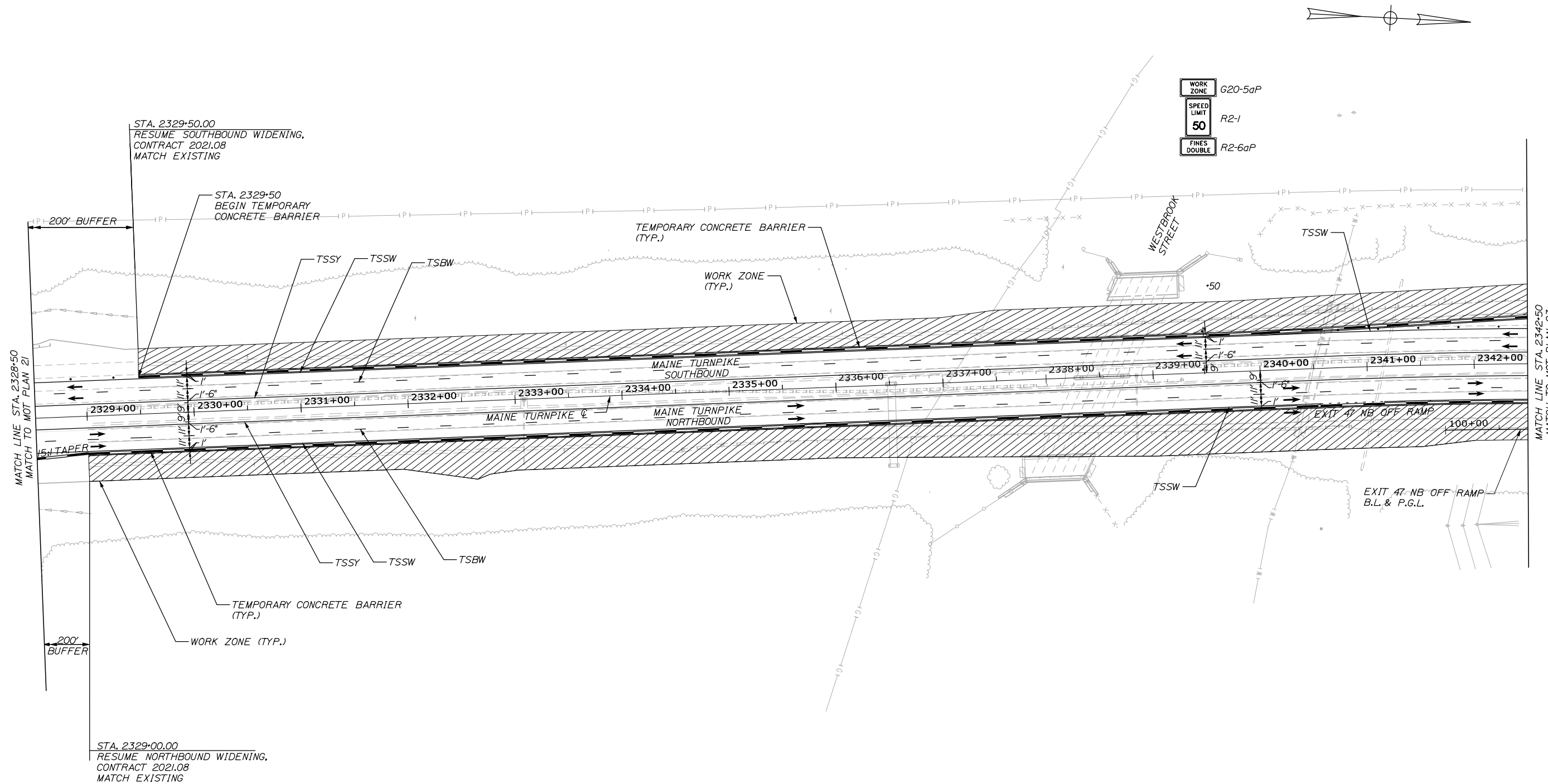
CONTRACTS: 2021.08

SHEET NUMBER: MOT-21

30 OF 376

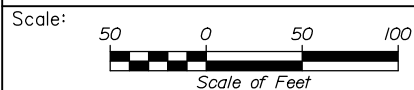
Date: 9/8/2021

Filename: PAW2_MOT_Phase_1B_MOT-22.dgn



NOTES:

- CONTRACTOR SHALL COORDINATE MOT SETUP WITH ADJACENT CONTRACT, CURRENTLY UNDERWAY, 2021.02 WATER LINE AND UTILITY VAULTS, APPROXIMATE STATION 2338+00 TO 2342+00 RIGHT, AND 2339+00 TO 2346+00 LEFT, INCLUDING APPROACH SIGNAGE.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

CONTRACTS: 2021.08

SHEET NUMBER: MOT-22

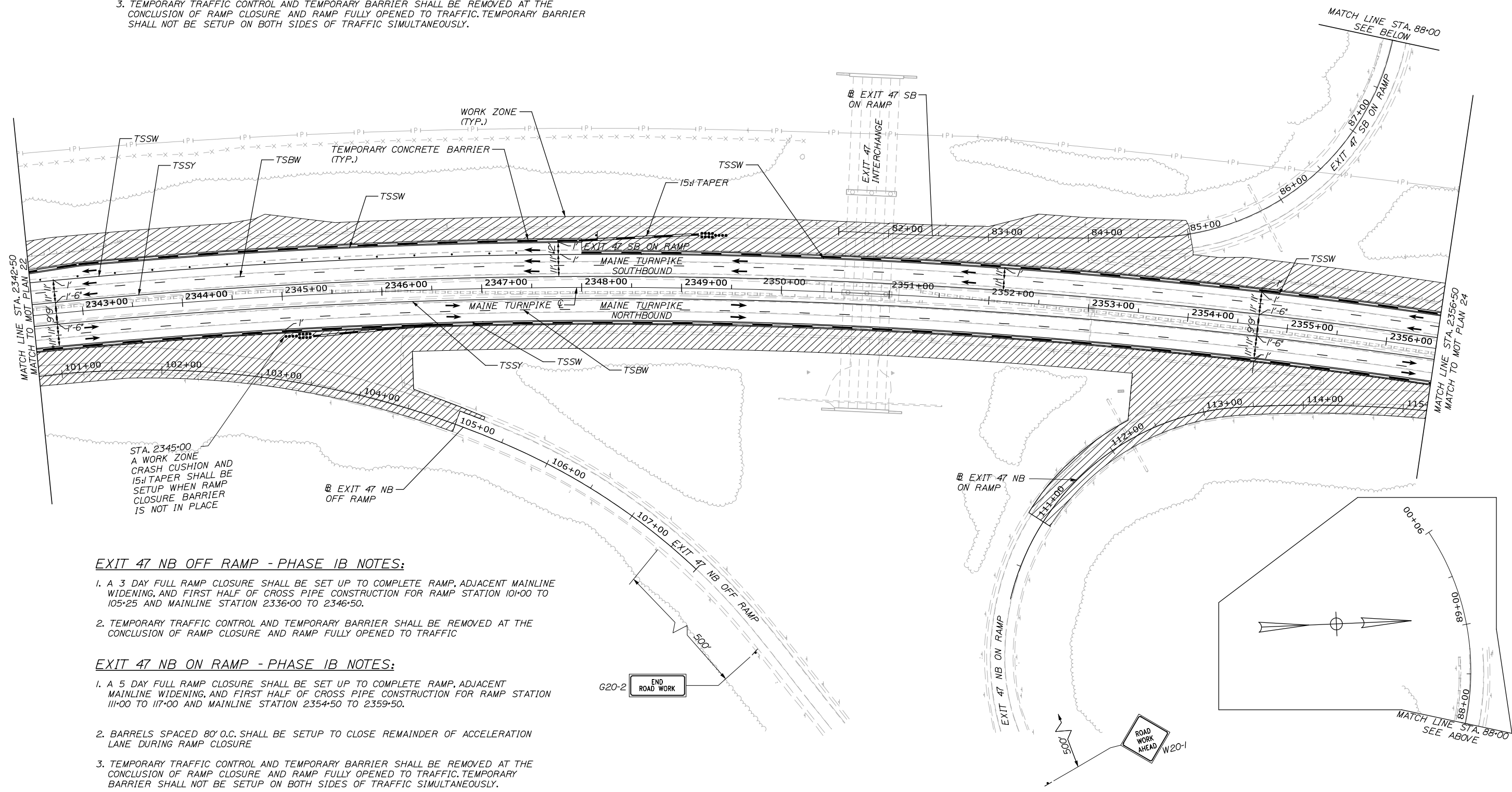
31 OF 376

EXIT 47 SB ON RAMP - PHASE 1B NOTES:

1. A 3 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 85+02 TO 81+50 AND MAINLINE STATION 2348+00 TO 2355+00.
2. BARRELS SPACED 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF ACCELERATION LANE DURING RAMP CLOSURE
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

SOUTHBOUND MAINLINE - PHASE 1B NOTES:

1. MAINLINE PAVING TO RAISE GRADE SHALL BE CONSTRUCTED UTILIZING NIGHTLY LANE CLOSURES IN CONJUNCTION WITH THE EXIT 47 SB ON RAMP CLOSURE; STATION 2351+00 TO 2359+00.
2. SEE DETAILS ON PROFILE SHEET PR-04.
3. SEE MAINTENANCE OF TRAFFIC STANDARD DETAILS TO BE USED DURING TEMPORARY NIGHT LANE CLOSURES.



EXIT 47 NB OFF RAMP - PHASE 1B NOTES:

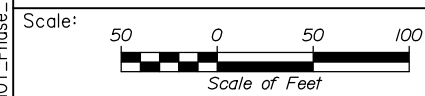
1. A 3 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP, ADJACENT MAINLINE WIDENING, AND FIRST HALF OF CROSS PIPE CONSTRUCTION FOR RAMP STATION 101+00 TO 105+25 AND MAINLINE STATION 2336+00 TO 2346+50.
2. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC

EXIT 47 NB ON RAMP - PHASE 1B NOTES:

1. A 5 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP, ADJACENT MAINLINE WIDENING, AND FIRST HALF OF CROSS PIPE CONSTRUCTION FOR RAMP STATION 111+00 TO 117+00 AND MAINLINE STATION 2354+50 TO 2359+50.
2. BARRELS SPACED 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF ACCELERATION LANE DURING RAMP CLOSURE
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.

Date: 9/8/2021

Filename: PAW2_MOT_Phase_1B_MOT-23.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1B

No.	Revision	By	Date

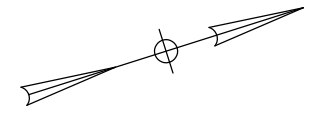
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACTS: 2021.08

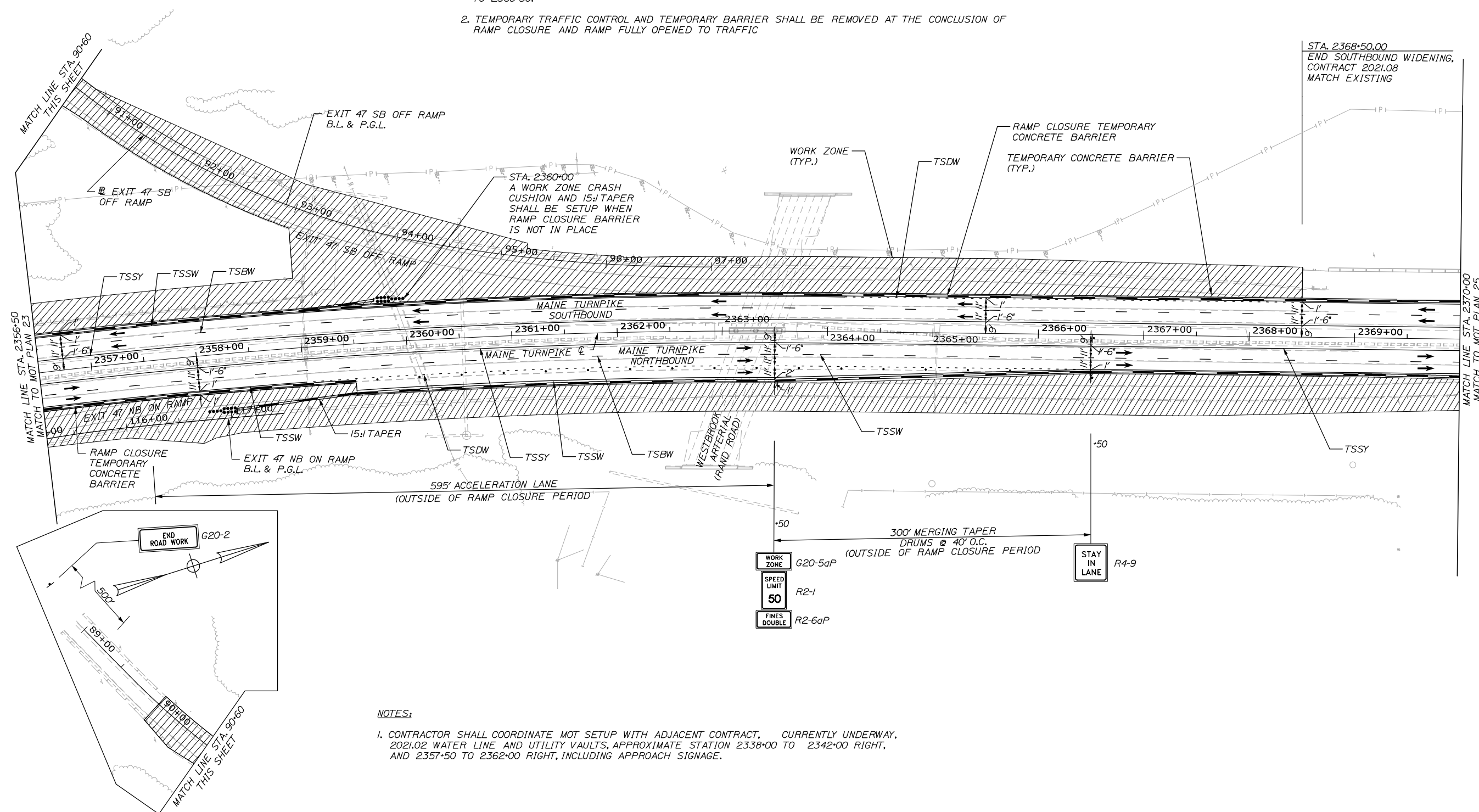
SHEET NUMBER: MOT-23

32 OF 376

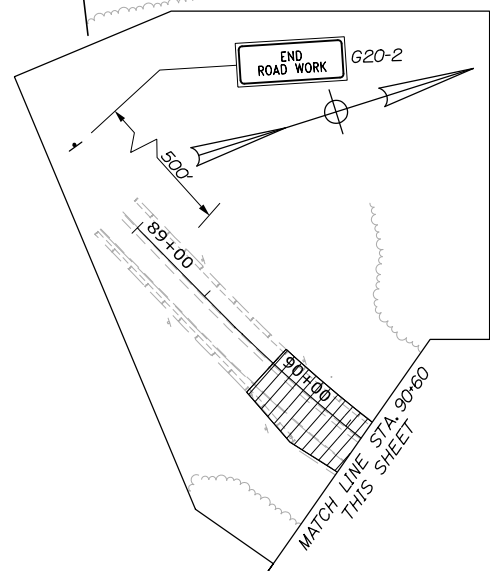


EXIT 47 SB OFF RAMP - PHASE 1B NOTES:

1. A 5 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP, ADJACENT MAINLINE WIDENING, AND RAMP CROSS PIPE CONSTRUCTION FOR RAMP STATION 90+00 TO 97+00 AND MAINLINE STATION 2359+00 TO 2368+50.
2. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC

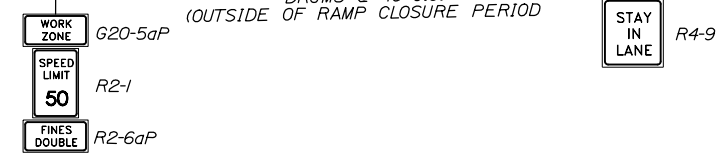


STA. 2368+50.00
END SOUTHBOUND WIDENING,
CONTRACT 2021.08
MATCH EXISTING



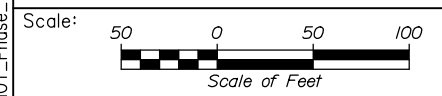
NOTES:

1. CONTRACTOR SHALL COORDINATE MOT SETUP WITH ADJACENT CONTRACT, CURRENTLY UNDERWAY, 2021.02 WATER LINE AND UTILITY VAULTS, APPROXIMATE STATION 2338+00 TO 2342+00 RIGHT, AND 2357+50 TO 2362+00 RIGHT, INCLUDING APPROACH SIGNAGE.



Date: 9/8/2021

Filename: PAW2_MOT_Phase_1B_MOT-24.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	By	Date	Checked	By	Date
	MS	09\21		PJS	09\21
Drawn	By	Date	In Charge of	By	Date
	GW	09\21		TRC	09\21

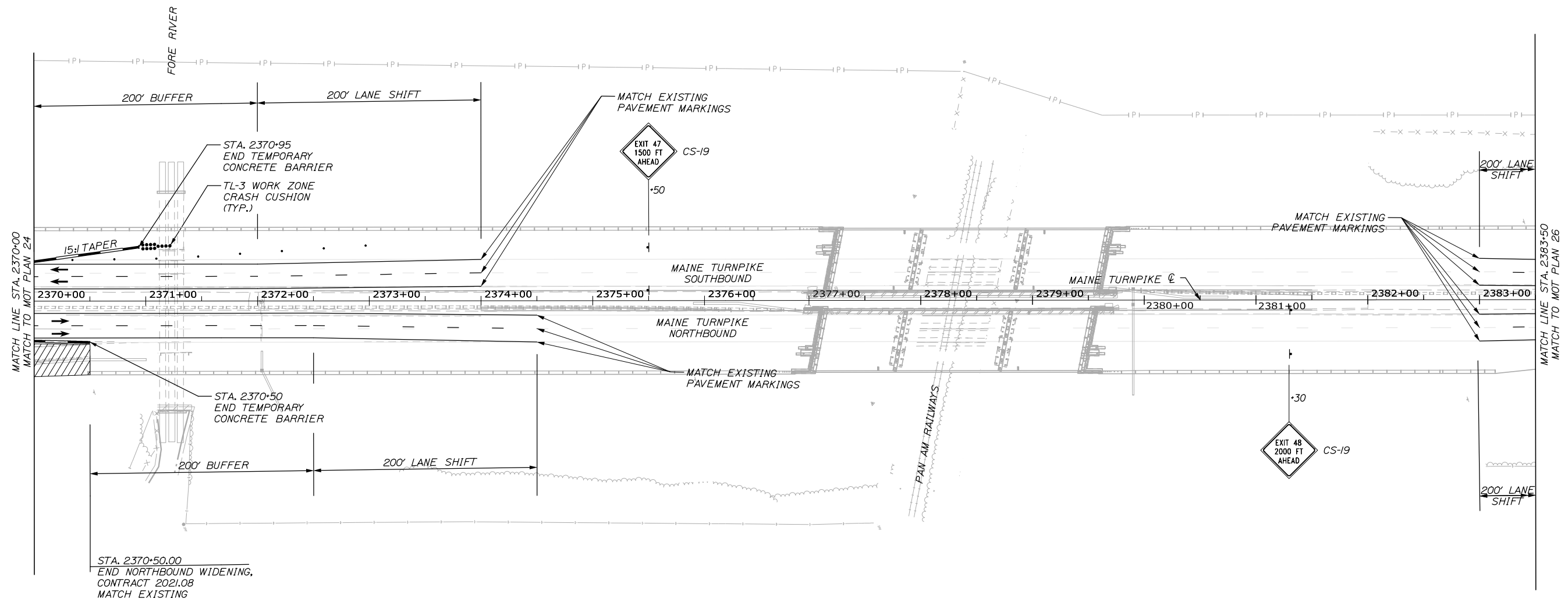
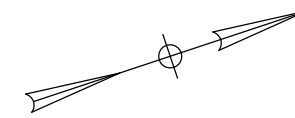
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACTS: 2021.08

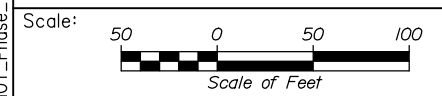
SHEET NUMBER: MOT-24

33 OF 376

Date: 9/8/2021



Filename: PAW2_MOT_Phase_1B_MOT-25.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

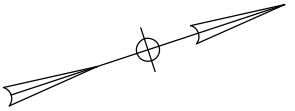
HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
 TEL (207) 774-5155
 FAX (207) 228-0909

**THE GOLD STAR
 MEMORIAL HIGHWAY**

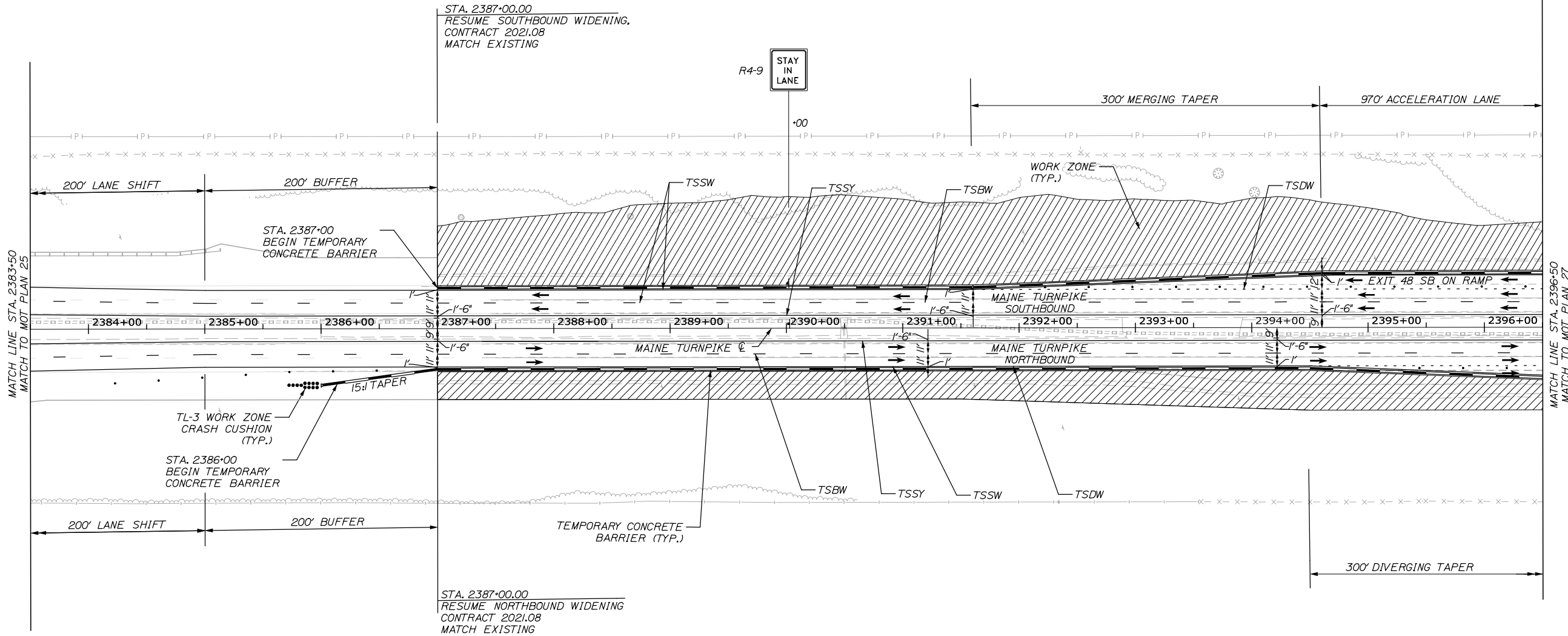
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

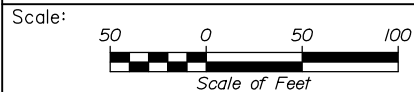
SHEET NUMBER: MOT-25
 CONTRACTS: 2021.08
 34 OF 376



Date: 9/8/2021



Filename: PAW2_MOT_Phase_1B_MOT-26.dgn



Designed by:



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By	Date	Checked
MS	MS	09\21	PJS
Drawn	By	Date	In Charge of
GW	GW	09\21	TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACTS: 2021.08

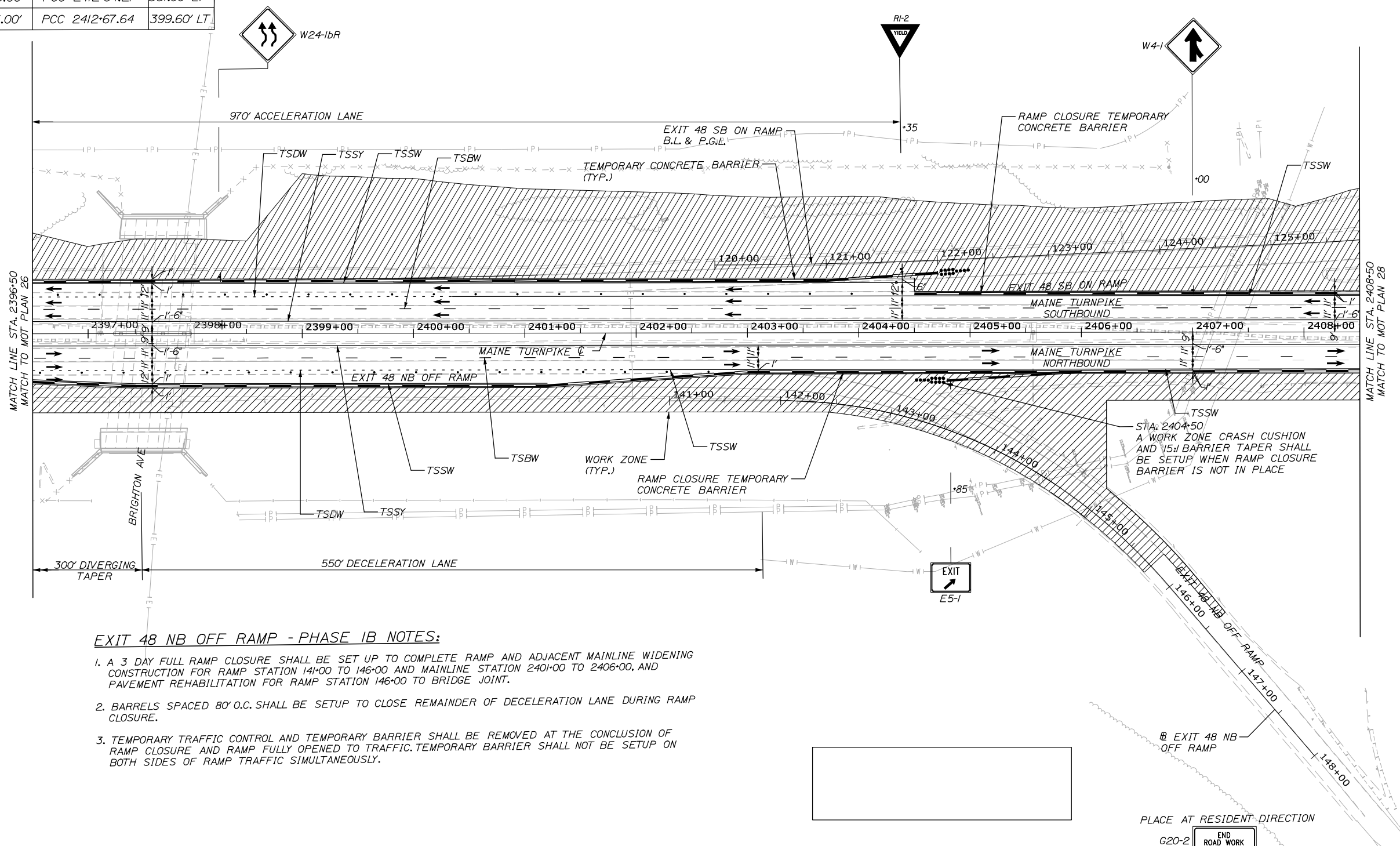
SHEET NUMBER: MOT-26

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EXIT 48 SB ON RAMP CURVE DATA

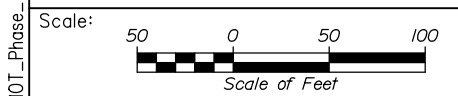
CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
11	PCC 121+62.36	18.65' RT	3988.00'	PCC 125+83.76	16.00' RT
12	PCC 125+83.76	16.00' RT	516.00'	PCC 129+30.92	16.20' RT
13	PCC 129+30.92	16.20' RT	250.00'	PCC 2412+42.06	389.51' LT
14	PCC 121+61.98	30.64' RT	4000.00'	PCC 125+83.76	45.30' LT
15	PCC 125+83.76	28.00' RT	528.00'	PCC 129+38.04	28.34' RT
16	PCC 129+38.04	28.34' RT	300.00'	PCC 2412+64.21	381.99' LT
17	PCC 2412+64.21	381.99' LT	175.00'	PCC 2412+67.64	399.60' LT

Date: 9/8/2021



EXIT 48 NB OFF RAMP - PHASE 1B NOTES:

1. A 3 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 141+00 TO 146+00 AND MAINLINE STATION 2401+00 TO 2406+00, AND PAVEMENT REHABILITATION FOR RAMP STATION 146+00 TO BRIDGE JOINT.
2. BARRELS SPACED 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF DECELERATION LANE DURING RAMP CLOSURE.
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF RAMP TRAFFIC SIMULTANEOUSLY.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1B

SHEET NUMBER: MOT-27
CONTRACTS: 2021.08
36 OF 376

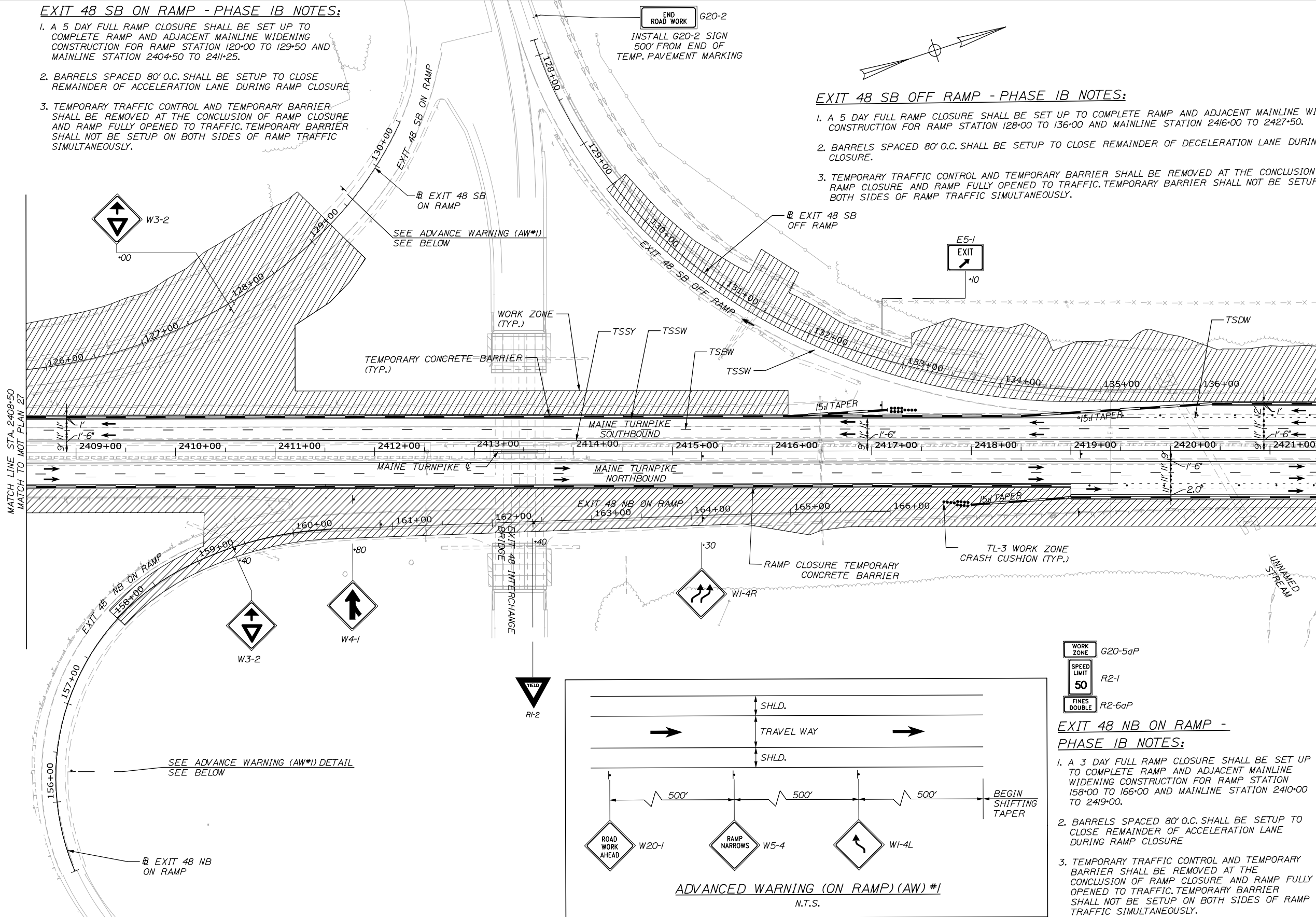
Filename: PAW2_MOT_Phase_1B_MOT-27.dgn

EXIT 48 SB ON RAMP - PHASE 1B NOTES:

1. A 5 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 120+00 TO 129+50 AND MAINLINE STATION 2404+50 TO 2411+25.
2. BARRELS SPACED 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF ACCELERATION LANE DURING RAMP CLOSURE
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF RAMP TRAFFIC SIMULTANEOUSLY.

EXIT 48 SB OFF RAMP - PHASE 1B NOTES:

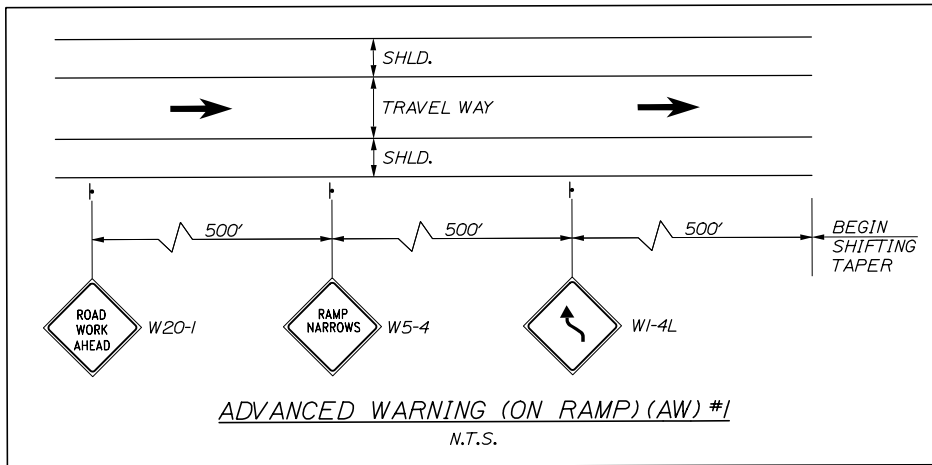
1. A 5 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 128+00 TO 136+00 AND MAINLINE STATION 2416+00 TO 2427+50.
2. BARRELS SPACED 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF DECELERATION LANE DURING RAMP CLOSURE.
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF RAMP TRAFFIC SIMULTANEOUSLY.



WORK ZONE G20-5aP
 SPEED LIMIT 50 R2-1
 FINES DOUBLE R2-6aP

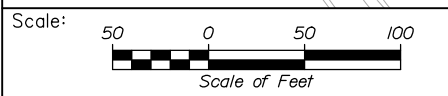
EXIT 48 NB ON RAMP - PHASE 1B NOTES:

1. A 3 DAY FULL RAMP CLOSURE SHALL BE SET UP TO COMPLETE RAMP AND ADJACENT MAINLINE WIDENING CONSTRUCTION FOR RAMP STATION 158+00 TO 166+00 AND MAINLINE STATION 2410+00 TO 2419+00.
2. BARRELS SPACED 80' O.C. SHALL BE SETUP TO CLOSE REMAINDER OF ACCELERATION LANE DURING RAMP CLOSURE
3. TEMPORARY TRAFFIC CONTROL AND TEMPORARY BARRIER SHALL BE REMOVED AT THE CONCLUSION OF RAMP CLOSURE AND RAMP FULLY OPENED TO TRAFFIC. TEMPORARY BARRIER SHALL NOT BE SETUP ON BOTH SIDES OF RAMP TRAFFIC SIMULTANEOUSLY.



Date: 9/8/2021

Filename: PAW2_MOT_Phase_1B_MOT-28.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

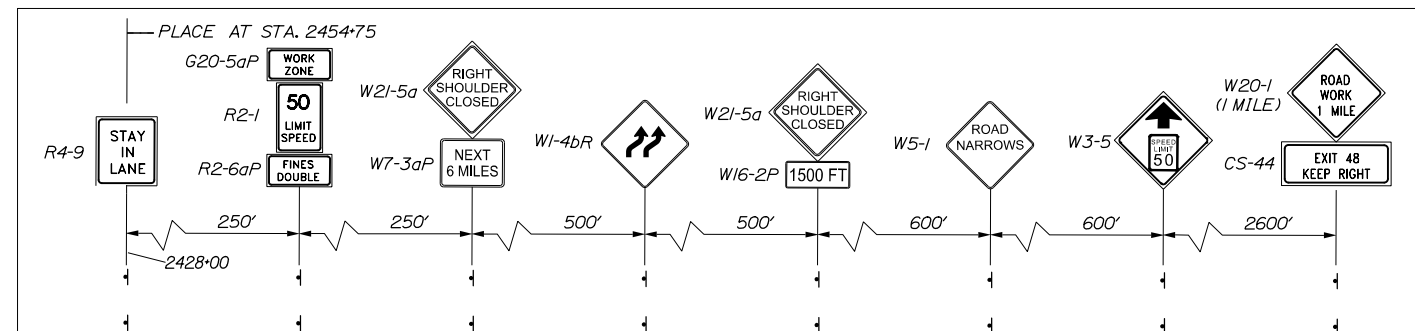
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

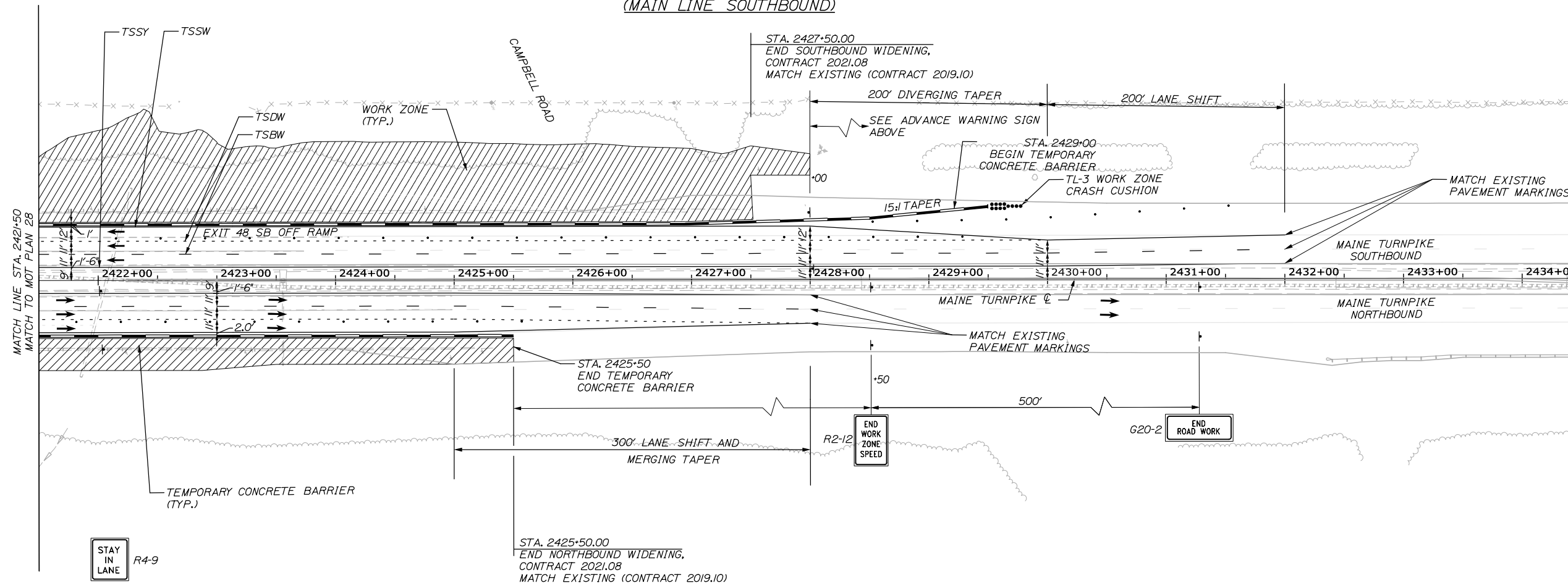
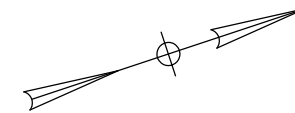
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 1B

SHEET NUMBER: MOT-28
 CONTRACTS: 2021.08
 37 OF 376

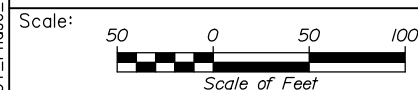
Date: 9/8/2021



ADVANCE WARNING SIGNS
(MAIN LINE SOUTHBOUND)



Filename: PAW2_MOT_Phase_1B_MOT-29.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	MS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACTS: 2021.08

SHEET NUMBER: MOT-29

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PHASE 2 QUANTITIES

ITEM 526.30 TEMPORARY CONCRETE BARRIER, TYPE I
 STA 2288+00, LT. TO 2423+70 LT.
 STA 2288+00 RT. TO 2424+30 RT.

LF
 9630
 9570

**ITEM 526.30 TEMPORARY CONCRETE BARRIER, TYPE I -
 SUPPLIED BY THE AUTHORITY**
 STA 2288+00, LT. TO 2423+70 LT. (4000 LF)
 STA 2288+00 RT. TO 2424+30 RT. (4000 LF)

ITEM 527.34 WORK ZONE CRASH CUSHION - TL-3
 NORTHBOUND
 SOUTHBOUND

UNIT
 /
 /

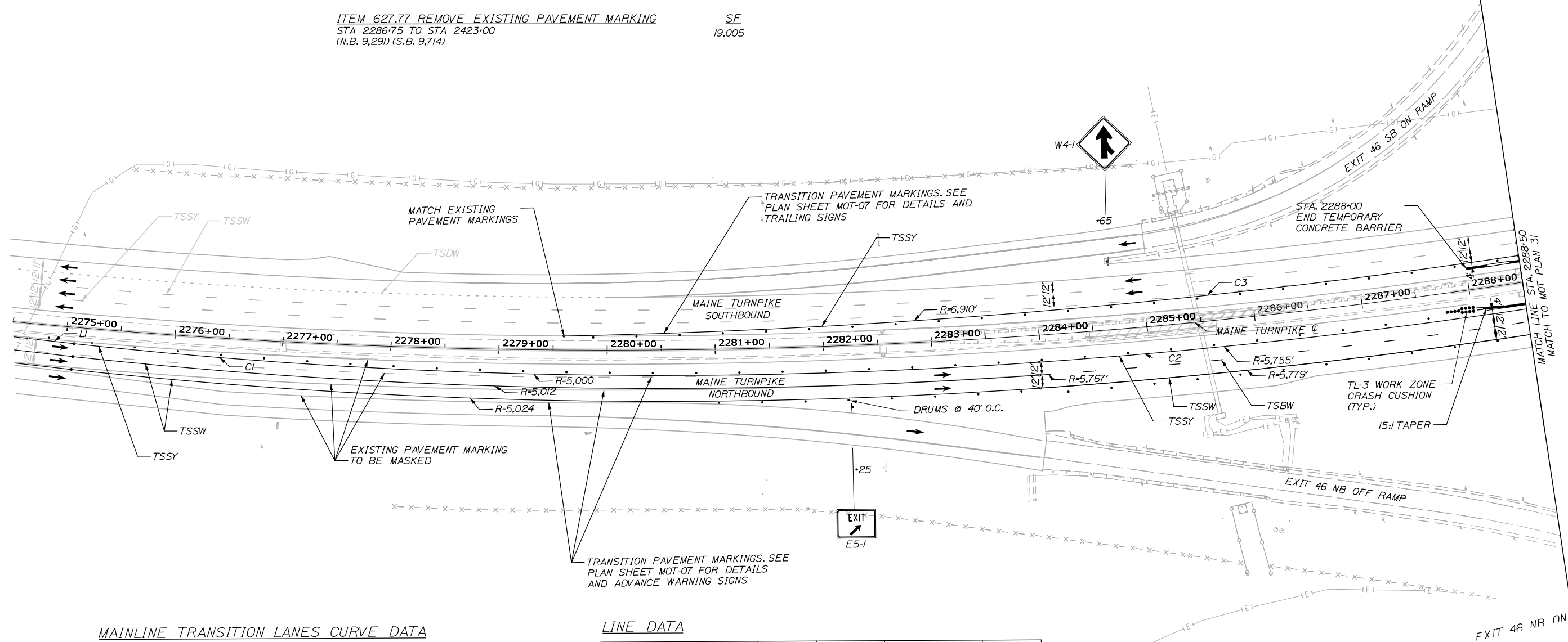
ITEM 627.77 REMOVE EXISTING PAVEMENT MARKING
 STA 2286+75 TO STA 2423+00
 (N.B. 9,291) (S.B. 9,714)

SF
 19,005

**ITEM 627.78 TEMPORARY PAVEMENT MARKING LINE,
 WHITE OR YELLOW**
 STA 2286+75 TO STA 2423+00 (TEMPORARY SOLID WHITE)
 (N.B. 16,630) (S.B. 15,265)
 STA 2286+75 TO STA 2423+00 (TEMPORARY BROKEN WHITE)
 (N.B. 11,195) (S.B. 7,350)
 STA 2286+75 TO STA 2423+00 (TEMPORARY DOTTED WHITE)
 (N.B. 5,371) (S.B. 9,380)
 STA 2286+75 TO STA 2423+00 (TEMPORARY SOLID YELLOW)
 (N.B. 12,165) (S.B. 11,750)

LF
 31,895
 18,545
 14,751
 23,915

STA. 2288+50.00
 BEGIN MEDIAN
 RECONSTRUCTION
 WITH BARRIER,
 CONTRACT 2021.08
 MATCH EXISTING



MAINLINE TRANSITION LANES CURVE DATA

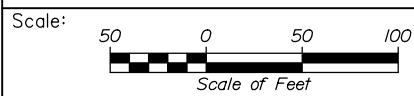
CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	PT 2275+07.67	15.17' RT	5000.00'	PCC 2283+98.02	25.00' RT
C2	PCC 2283+98.02	25.00' RT	5755.00'	PCC 2295+76.82	25.00' RT
C3	PCC 2279+59.89	13.00' LT	6910.00'	PCC 2288+49.67	25.00' LT

LINE DATA

LINE #	START STATION	OFFSET	LENGTH	END STATION	OFFSET
LI	PCC 2273+50.00	13.00' RT	158.00'	PT 2275+07.67	15.17' RT

Date: 9/8/2021

Filename: PAW2_MOT_Phase_2_MOT-30.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 South Portland, ME 04106
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

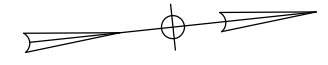
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

CONTRACT: 2021.08

SHEET NUMBER: MOT-30

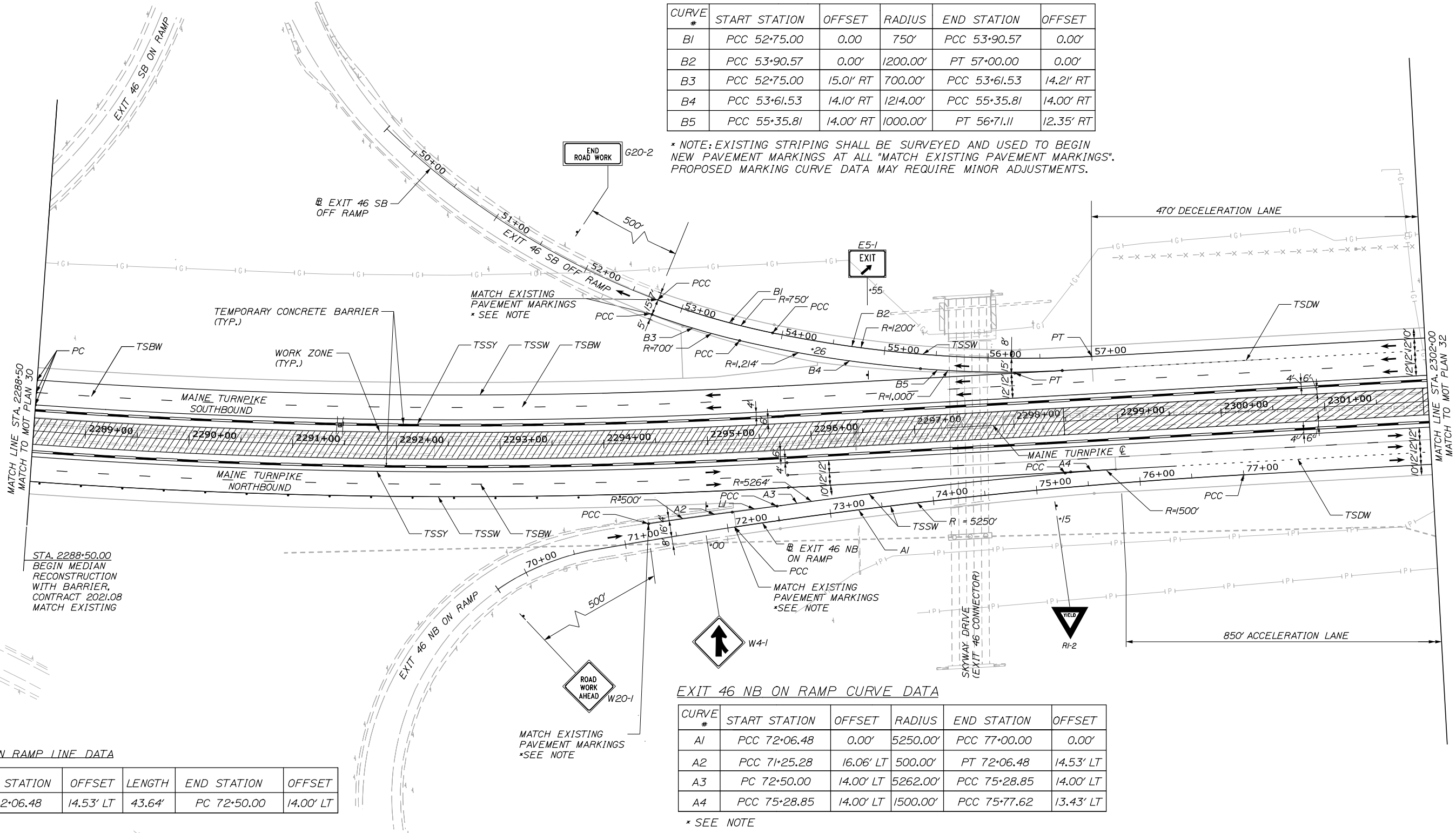
39 OF 376



EXIT 46 SB OFF RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
B1	PCC 52+75.00	0.00	750'	PCC 53+90.57	0.00'
B2	PCC 53+90.57	0.00'	1200.00'	PT 57+00.00	0.00'
B3	PCC 52+75.00	15.01' RT	700.00'	PCC 53+61.53	14.21' RT
B4	PCC 53+61.53	14.10' RT	1214.00'	PCC 55+35.81	14.00' RT
B5	PCC 55+35.81	14.00' RT	1000.00'	PT 56+71.11	12.35' RT

* NOTE: EXISTING STRIPING SHALL BE SURVEYED AND USED TO BEGIN NEW PAVEMENT MARKINGS AT ALL "MATCH EXISTING PAVEMENT MARKINGS". PROPOSED MARKING CURVE DATA MAY REQUIRE MINOR ADJUSTMENTS.



EXIT 46 NB ON RAMP LINE DATA

CURVE #	START STATION	OFFSET	LENGTH	END STATION	OFFSET
LI	PT 72+06.48	14.53' LT	43.64'	PC 72+50.00	14.00' LT

* SEE NOTE

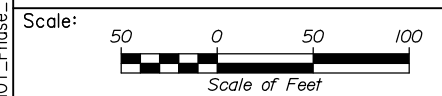
EXIT 46 NB ON RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
A1	PCC 72+06.48	0.00'	5250.00'	PCC 77+00.00	0.00'
A2	PCC 71+25.28	16.06' LT	500.00'	PT 72+06.48	14.53' LT
A3	PC 72+50.00	14.00' LT	5262.00'	PCC 75+28.85	14.00' LT
A4	PCC 75+28.85	14.00' LT	1500.00'	PCC 75+77.62	13.43' LT

* SEE NOTE

Date: 9/8/2021

Filename: PAW2_MOT_Phase 2_MOT-31.dgn



Designed by:



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South Portland, ME 04106
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FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	MS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

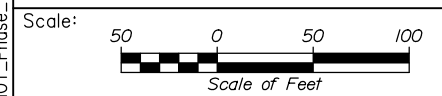
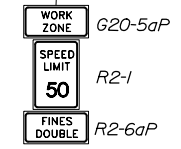
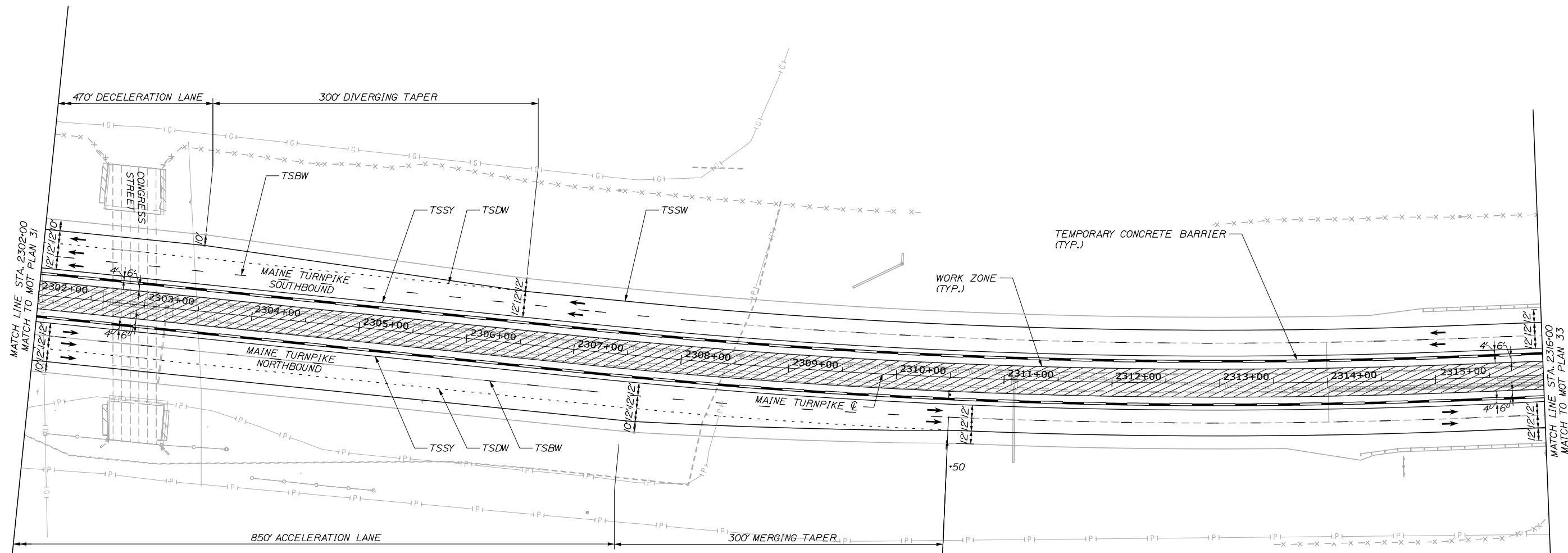
SHEET NUMBER: MOT-31

40 OF 376



Date: 9/8/2021

Filename: PAW2_MOT_Phase_2_MOT-32.dgn



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

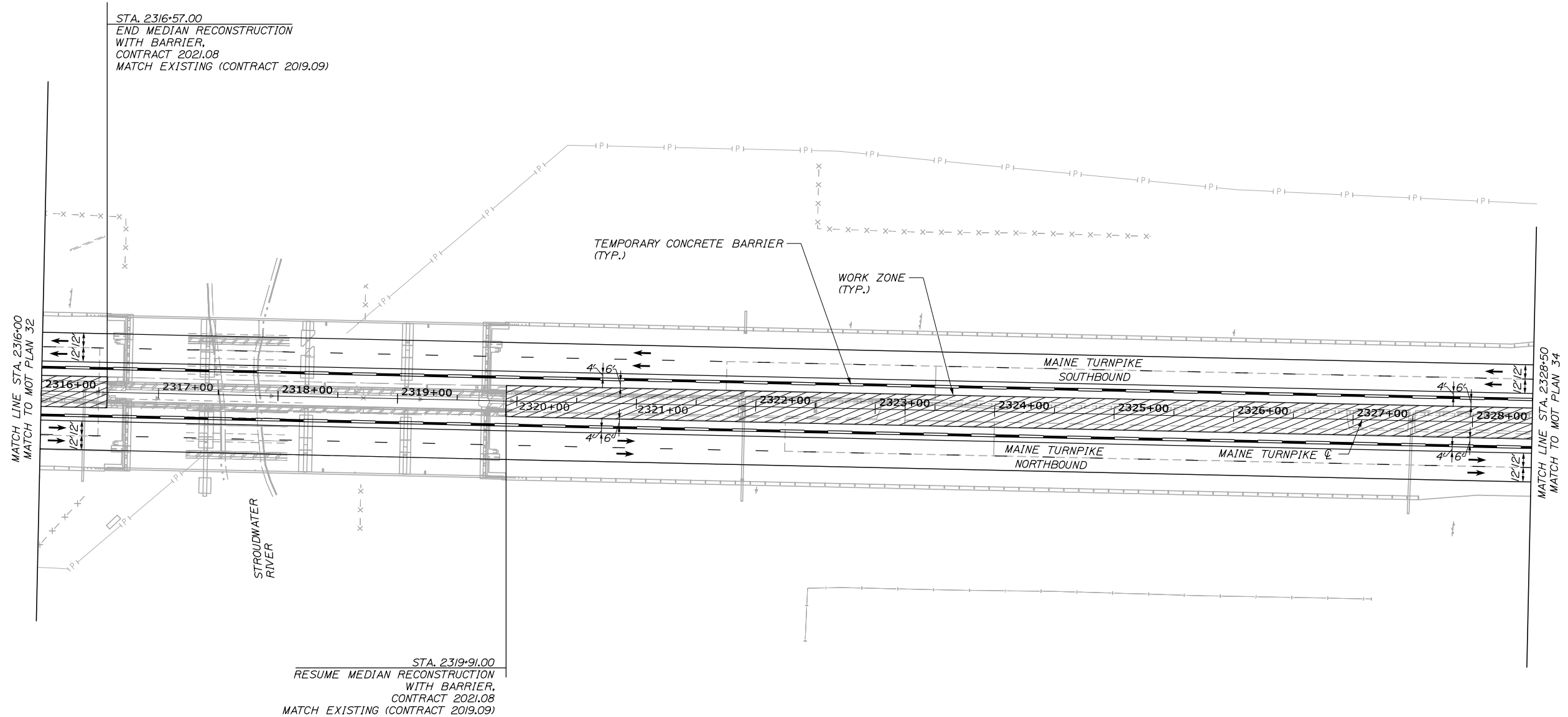
CONTRACT: 2021.08

SHEET NUMBER: MOT-32

41 OF 376



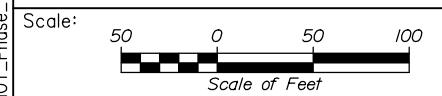
Date: 9/8/2021



STA. 2316+57.00
 END MEDIAN RECONSTRUCTION
 WITH BARRIER,
 CONTRACT 2021.08
 MATCH EXISTING (CONTRACT 2019.09)

STA. 2319+91.00
 RESUME MEDIAN RECONSTRUCTION
 WITH BARRIER,
 CONTRACT 2021.08
 MATCH EXISTING (CONTRACT 2019.09)

Filename: PAW2_MOT_Phase_2_MOT-33.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

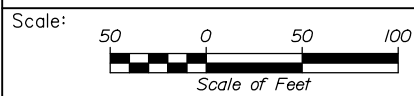
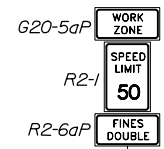
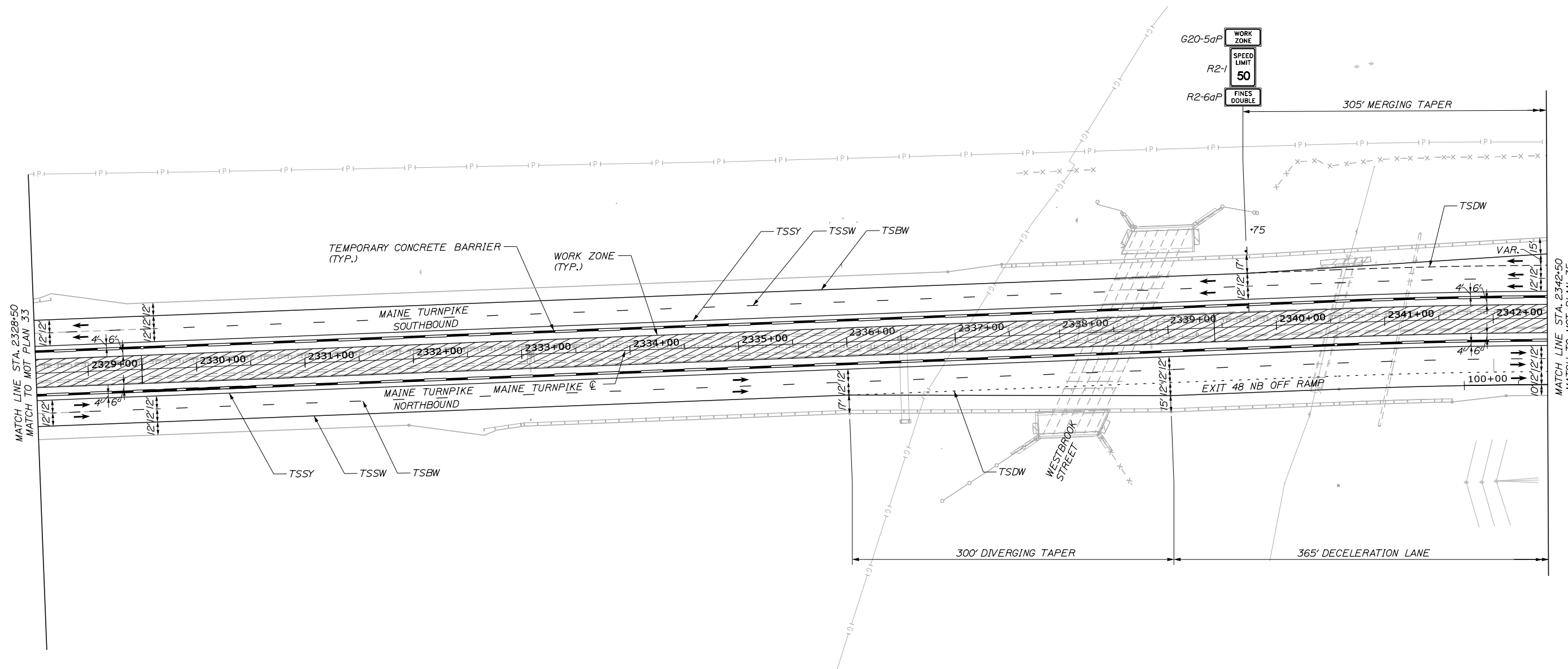
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

SHEET NUMBER: MOT-33
 42 OF 376

CONTRACTS: 2021.08

Date: 9/8/2021

Filename: PAW2_MOT_Phase_2_MOT-34.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

CONTRACTS: 2021.08

SHEET NUMBER: MOT-34
 43 OF 376

EXIT 47 NB ON RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
D1	PCC 113+00.00	0.00'	250.00'	PCC 113+34.77	0.00'
D2	PCC 113+34.77	0.00'	1200.00'	PCC 116+00.00	0.00'
D3	PCC 113+00	14.00' LT	264.00'	PCC 113+34.77	14.00' LT
D4	PCC 113+34.77	14.00' LT	1214.00'	PCC 114+31.91	14.00' LT
D5	PCC 114+31.91	14.00' LT	1000.00'	PCC 115+64.09	12.43' LT

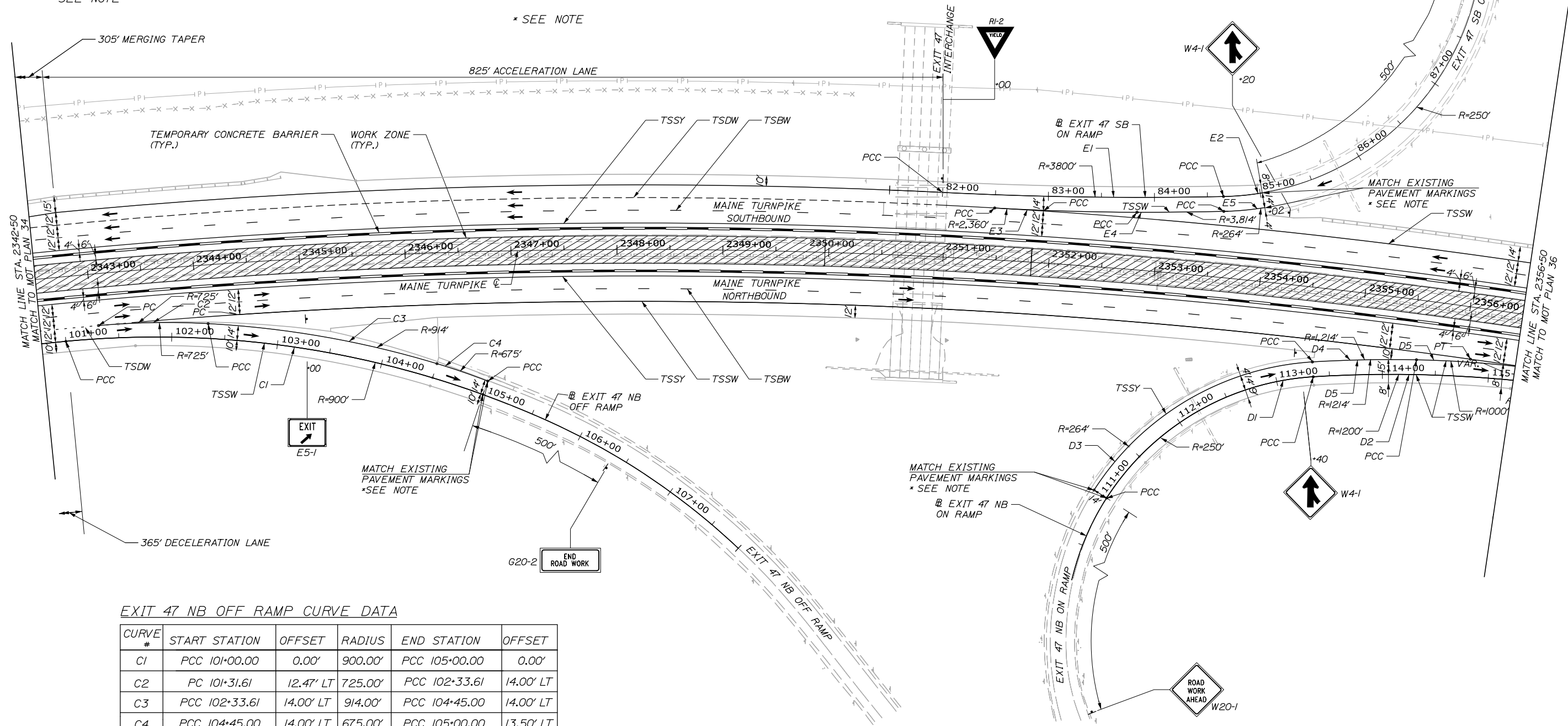
* SEE NOTE

EXIT 47 SB ON RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
E1	PC 82+00.00	0.00'	3800.00'	PCC 84+65.20	0.00'
E2	PCC 84+65.20	0.00'	250.00'	PCC 85+02.00	0.00'
E3	PCC 82+49.70	12.54' RT	2360.00'	PCC 83+83.61	14.00' RT
E4	PCC 83+83.61	14.00' RT	3814.00'	PCC 84+65.20	14.03' RT
E5	PCC 84+65.20	14.03' RT	250.00'	PCC 85+02.00	14.48' RT

* SEE NOTE

Date: 9/8/2021

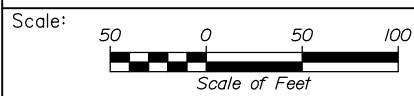


EXIT 47 NB OFF RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C1	PCC 101+00.00	0.00'	900.00'	PCC 105+00.00	0.00'
C2	PC 101+31.61	12.47' LT	725.00'	PCC 102+33.61	14.00' LT
C3	PCC 102+33.61	14.00' LT	914.00'	PCC 104+45.00	14.00' LT
C4	PCC 104+45.00	14.00' LT	675.00'	PCC 105+00.00	13.50' LT

* NOTE: EXISTING STRIPING SHALL BE SURVEYED AND USED TO BEGIN NEW PAVEMENT MARKINGS AT ALL "MATCH EXISTING PAVEMENT MARKINGS". PROPOSED MARKING CURVE DATA MAY REQUIRE MINOR ADJUSTMENTS.

Filename: PAW2_MOT_Phase_2_MOT-35.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

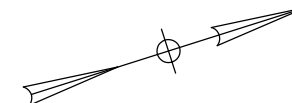
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 2

SHEET NUMBER: MOT-35
CONTRACTS: 2021.08
44 OF 376

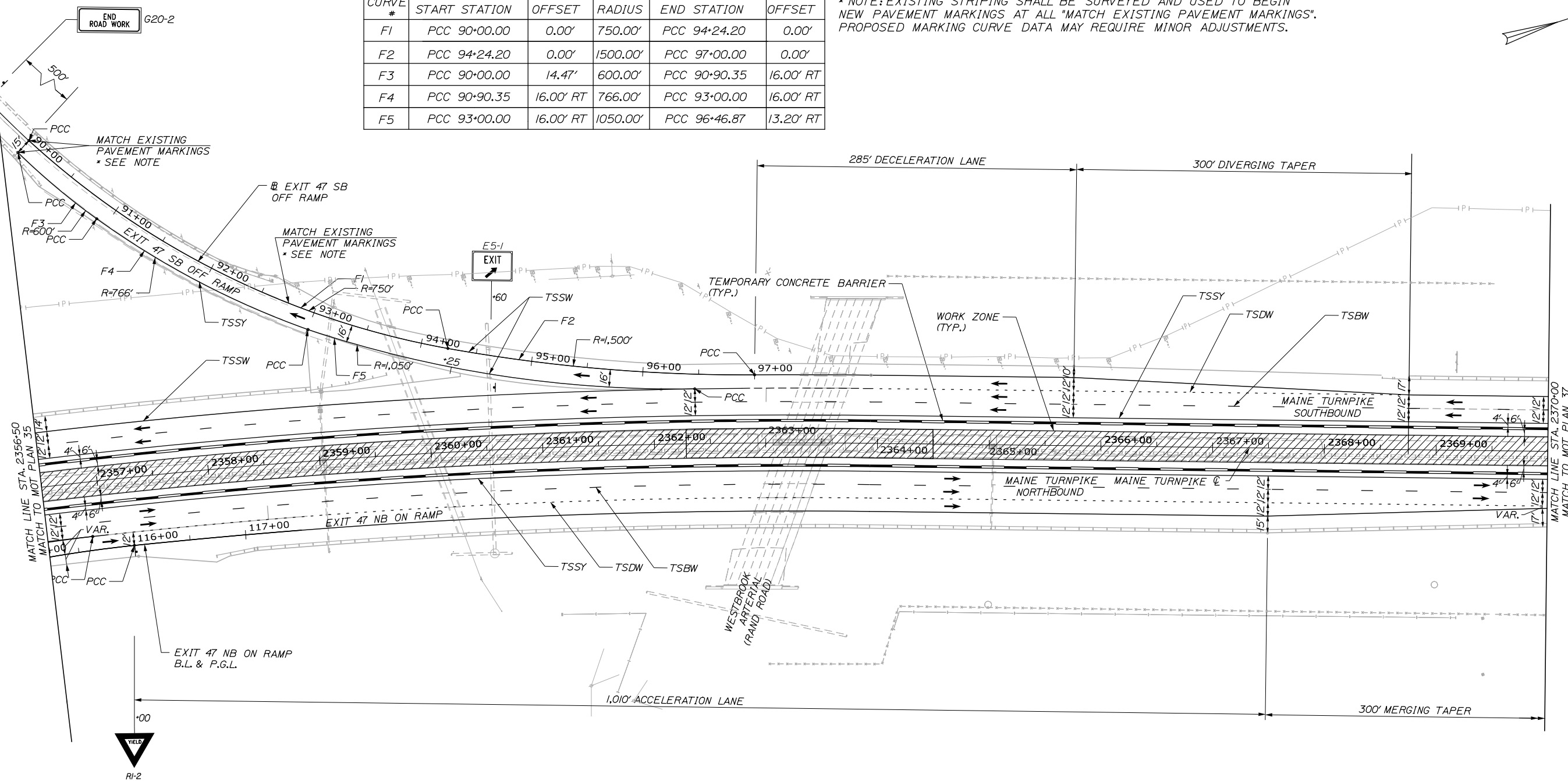
EXIT 47 SB OFF RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
F1	PCC 90+00.00	0.00'	750.00'	PCC 94+24.20	0.00'
F2	PCC 94+24.20	0.00'	1500.00'	PCC 97+00.00	0.00'
F3	PCC 90+00.00	14.47'	600.00'	PCC 90+90.35	16.00' RT
F4	PCC 90+90.35	16.00' RT	766.00'	PCC 93+00.00	16.00' RT
F5	PCC 93+00.00	16.00' RT	1050.00'	PCC 96+46.87	13.20' RT

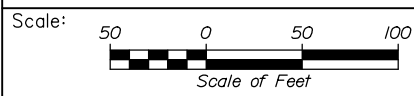
* NOTE: EXISTING STRIPING SHALL BE SURVEYED AND USED TO BEGIN NEW PAVEMENT MARKINGS AT ALL "MATCH EXISTING PAVEMENT MARKINGS". PROPOSED MARKING CURVE DATA MAY REQUIRE MINOR ADJUSTMENTS.



Date: 9/8/2021



Filename: PAW2_MOT_Phase_2_MOT-36.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

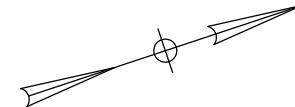
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 South Portland, ME 04106
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THE GOLD STAR
MEMORIAL HIGHWAY

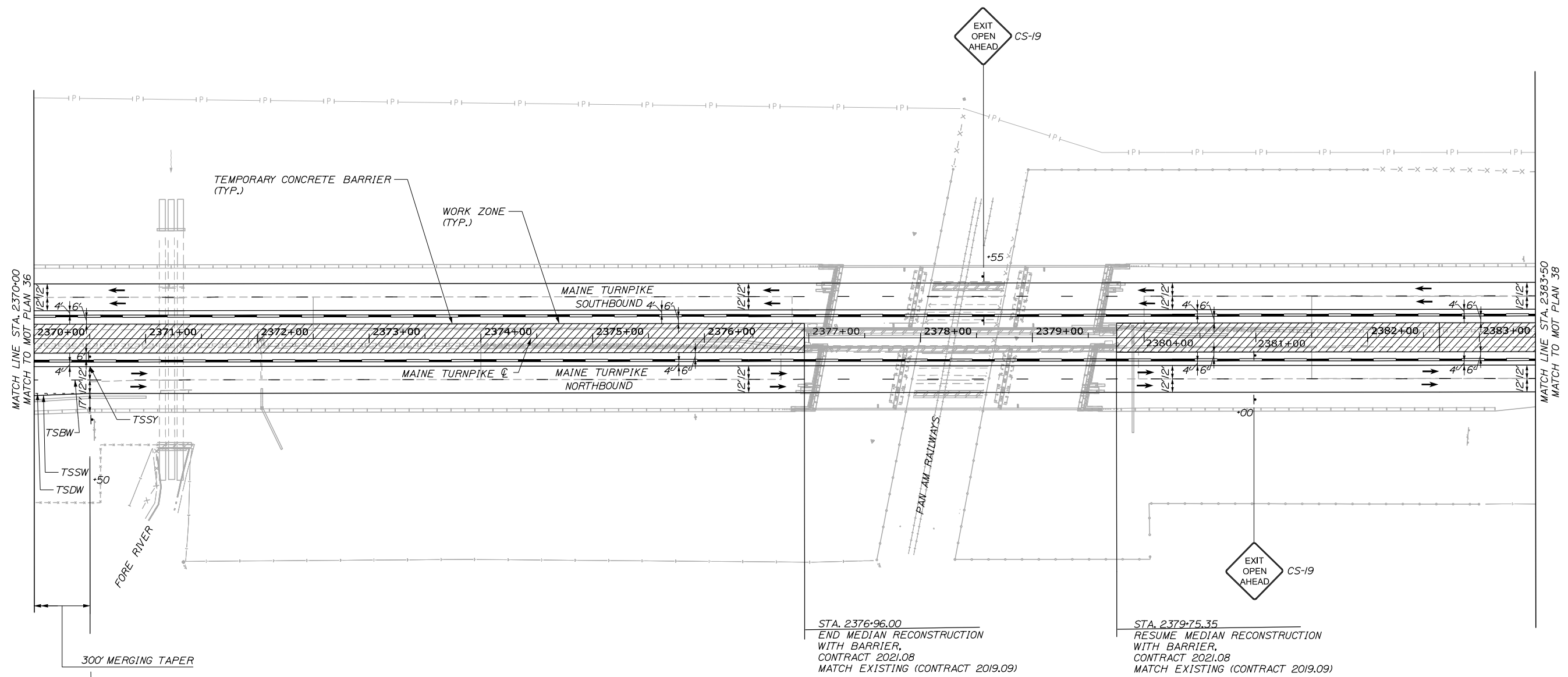
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 2

SHEET NUMBER: MOT-36
CONTRACTS: 2021.08
45 OF 376

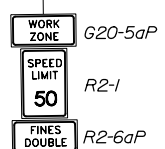


Date: 9/8/2021



MATCH LINE STA. 2370+00
MATCH TO MOT PLAN 36

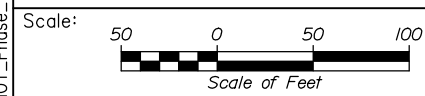
MATCH LINE STA. 2383+50
MATCH TO MOT PLAN 38



STA. 2376+96.00
END MEDIAN RECONSTRUCTION
WITH BARRIER.
CONTRACT 2021.08
MATCH EXISTING (CONTRACT 2019.09)

STA. 2379+75.35
RESUME MEDIAN RECONSTRUCTION
WITH BARRIER.
CONTRACT 2021.08
MATCH EXISTING (CONTRACT 2019.09)

Filename: PAW2_MOT_Phase_2_MOT-37.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 2

No.	Revision	By	Date

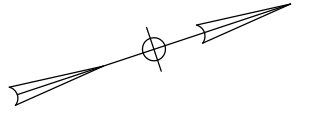
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
Designed	MS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

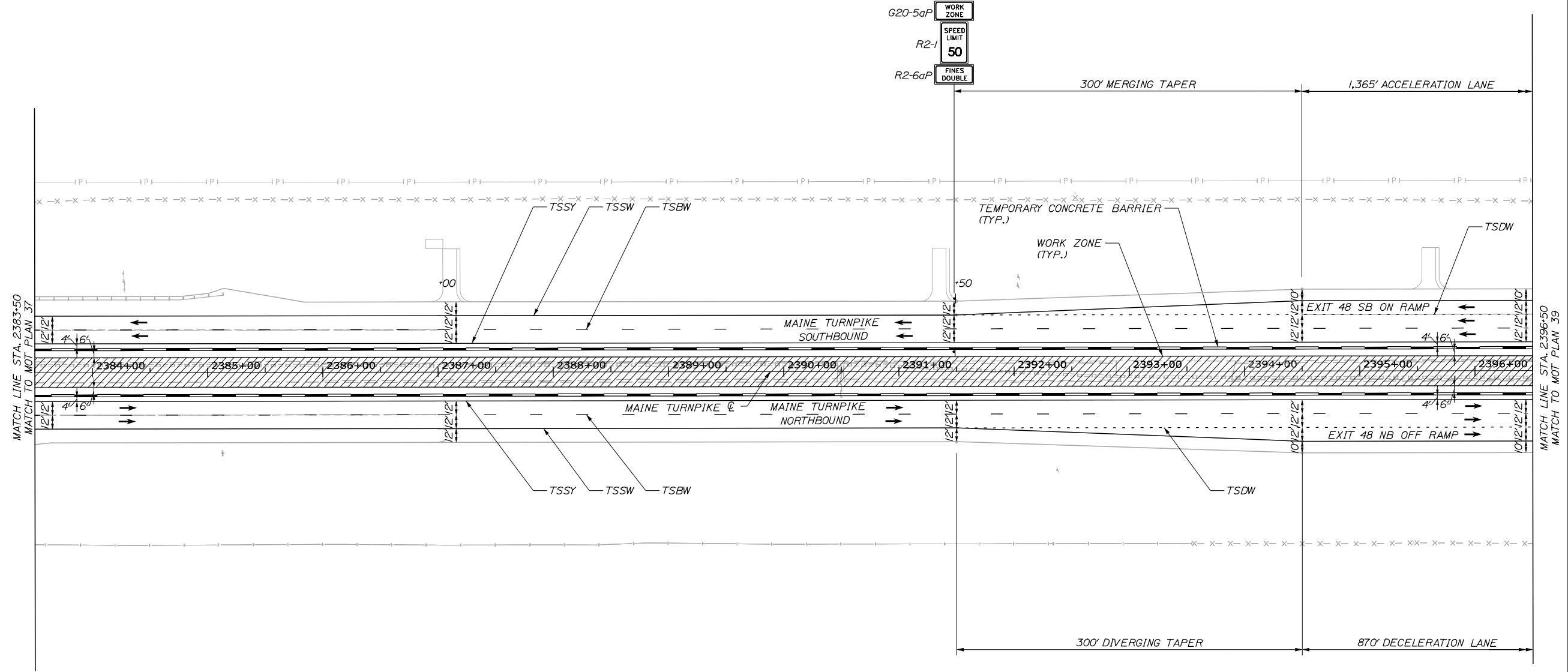
CONTRACTS: 2021.08

SHEET NUMBER: MOT-37

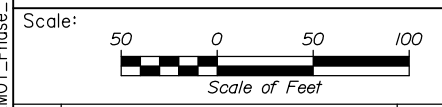
46 OF 376



Date: 9/8/2021



Filename: PAW2_MOT_Phase_2_MOT-38.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

CONTRACTS: 2021.08

SHEET NUMBER: MOT-38
 47 OF 376

EXIT 48 SB ON RAMP CURVE DATA

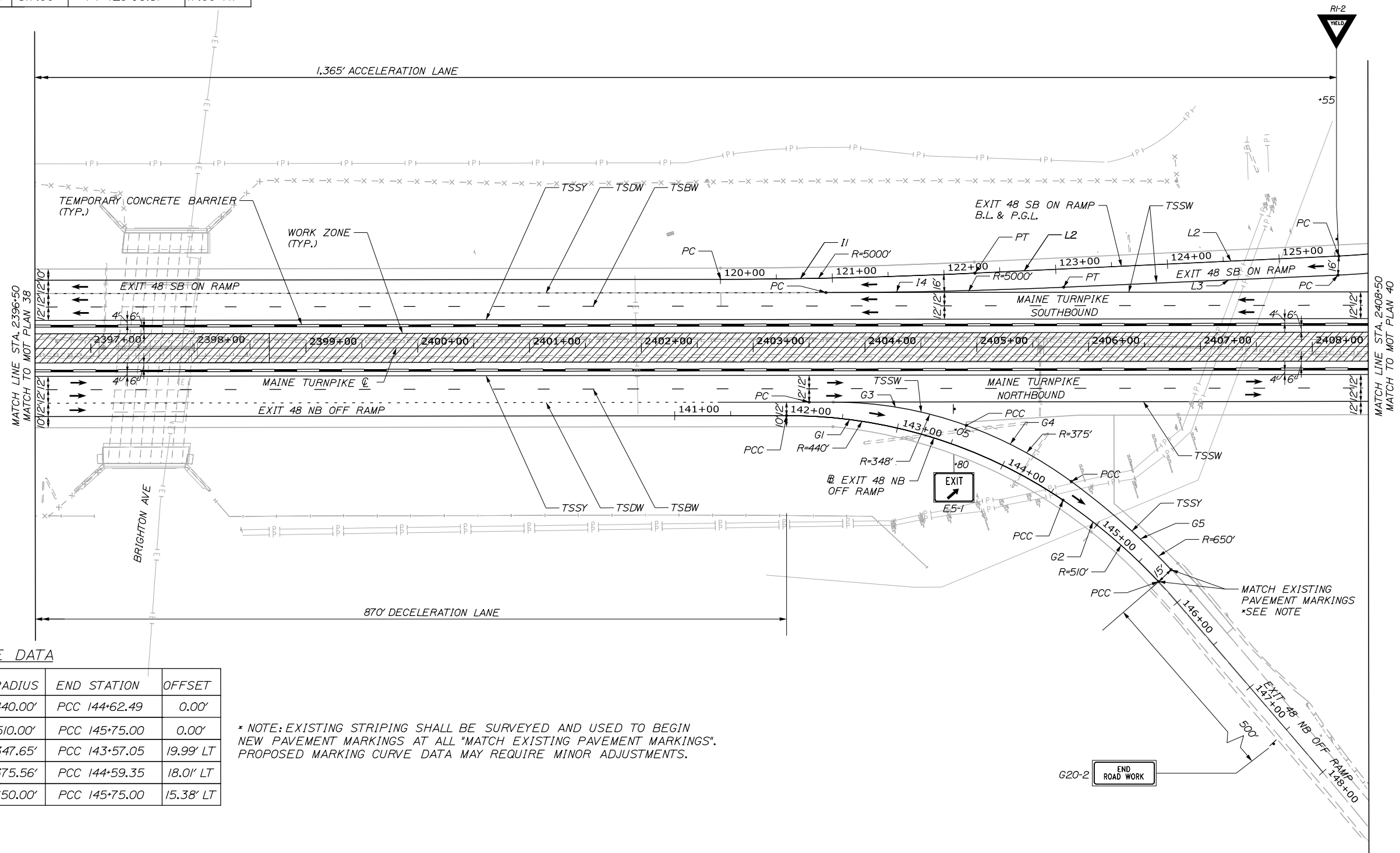
CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
11	PC 120+00.00	0.00'	5000.00'	PT 122+27.63	0.00'
12	PC 125+53.51	0.00'	500.00'	PCC 129+07.94	0.00'
13	PCC 129+07.94	0.00'	365.00'	PCC 129+25.00	0.00'
14	PC 120+94.12	12.89' RT	5000.00	PT 123+06.31	16.26' RT
15	PC 125+51.96	17.00' RT	517.00'	PT 128+96.51	17.00' RT

* SEE NOTE

EXIT 48 SB ON RAMP LINE DATA

CURVE #	START STATION	OFFSET	LENGTH	END STATION	OFFSET
L2	PT 122+27.63	0.00'	325.88'	PC 125+53.51	0.00'
L3	PT 123+06.31	16.26' RT	245.95'	PC 125+51.96	17.00' RT
L4	PT 128+96.51	17.00' RT	29.72'	PCC 129+25.00	17.96' RT

* SEE NOTE



EXIT 48 NB OFF RAMP CURVE DATA

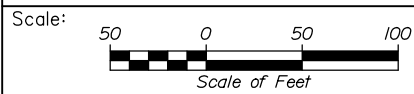
CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
G1	PCC 142+00.00	0.00'	440.00'	PCC 144+62.49	0.00'
G2	PCC 144+62.49	0.00'	510.00'	PCC 145+75.00	0.00'
G3	PCC 142+40.50	13.92' LT	347.65'	PCC 143+57.05	19.99' LT
G4	PCC 143+57.05	19.99' LT	375.56'	PCC 144+59.35	18.01' LT
G5	PCC 144+59.35	18.01' LT	650.00'	PCC 145+75.00	15.38' LT

* SEE NOTE

* NOTE: EXISTING STRIPING SHALL BE SURVEYED AND USED TO BEGIN NEW PAVEMENT MARKINGS AT ALL "MATCH EXISTING PAVEMENT MARKINGS". PROPOSED MARKING CURVE DATA MAY REQUIRE MINOR ADJUSTMENTS.

Date: 9/8/2021

Filename: PAW2_MOT_Phase_2_MOT-39.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

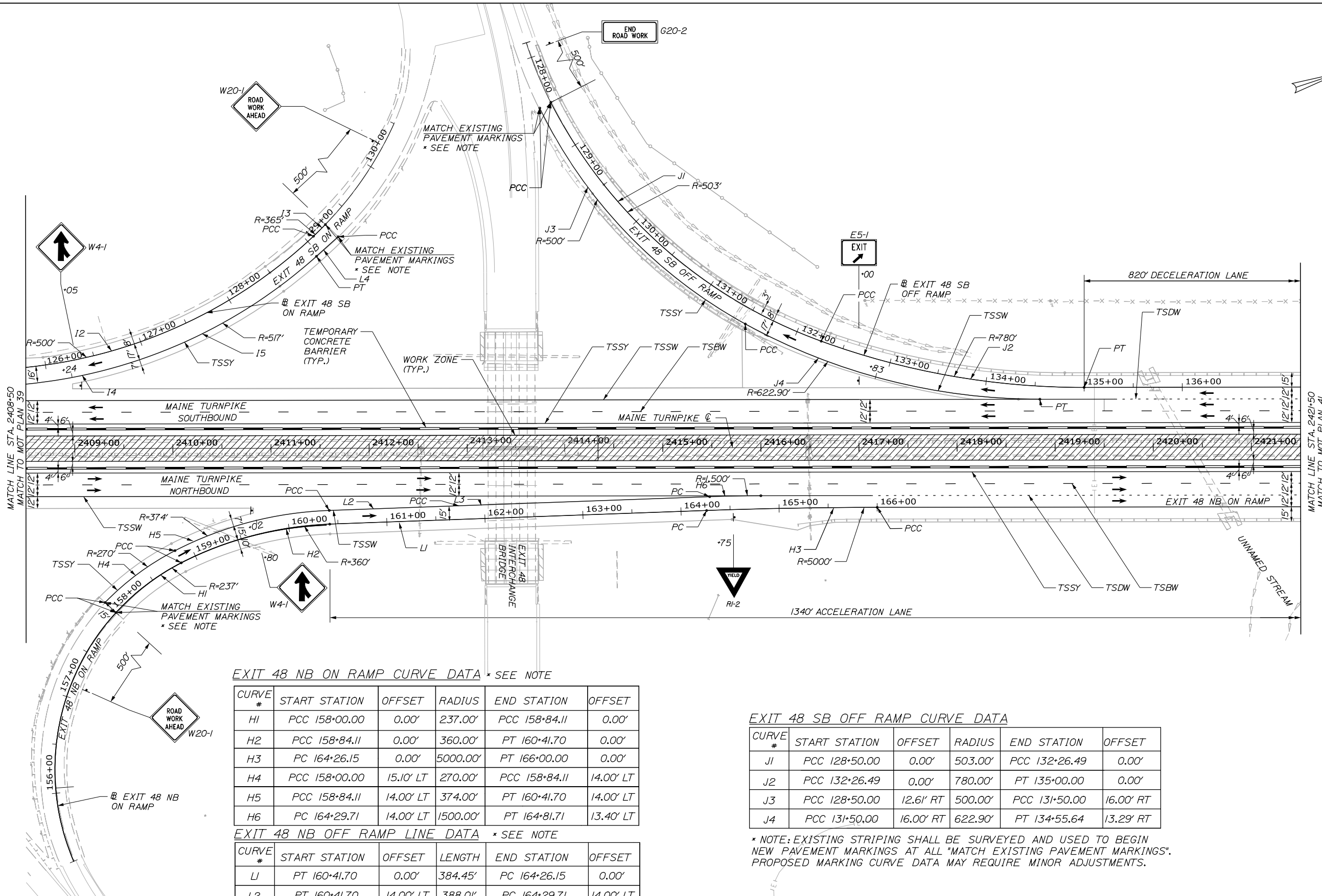
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

SHEET NUMBER: MOT-39
 48 OF 376

CONTRACTS: 2021.08

Date: 9/8/2021

Filename: PAW2_MOT_Phase 2_MOT-40.dgn



EXIT 48 NB ON RAMP CURVE DATA * SEE NOTE

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
H1	PCC 158+00.00	0.00'	237.00'	PCC 158+84.11	0.00'
H2	PCC 158+84.11	0.00'	360.00'	PT 160+41.70	0.00'
H3	PC 164+26.15	0.00'	5000.00'	PT 166+00.00	0.00'
H4	PCC 158+00.00	15.10' LT	270.00'	PCC 158+84.11	14.00' LT
H5	PCC 158+84.11	14.00' LT	374.00'	PT 160+41.70	14.00' LT
H6	PC 164+29.71	14.00' LT	1500.00'	PT 164+81.71	13.40' LT

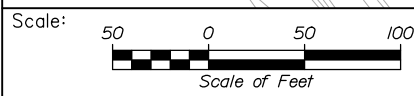
EXIT 48 NB OFF RAMP LINE DATA * SEE NOTE

CURVE #	START STATION	OFFSET	LENGTH	END STATION	OFFSET
L1	PT 160+41.70	0.00'	384.45'	PC 164+26.15	0.00'
L2	PT 160+41.70	14.00' LT	388.01'	PC 164+29.71	14.00' LT

EXIT 48 SB OFF RAMP CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
J1	PCC 128+50.00	0.00'	503.00'	PCC 132+26.49	0.00'
J2	PCC 132+26.49	0.00'	780.00'	PT 135+00.00	0.00'
J3	PCC 128+50.00	12.61' RT	500.00'	PCC 131+50.00	16.00' RT
J4	PCC 131+50.00	16.00' RT	622.90'	PT 134+55.64	13.29' RT

* NOTE: EXISTING STRIPING SHALL BE SURVEYED AND USED TO BEGIN NEW PAVEMENT MARKINGS AT ALL "MATCH EXISTING PAVEMENT MARKINGS". PROPOSED MARKING CURVE DATA MAY REQUIRE MINOR ADJUSTMENTS.



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINTENANCE OF TRAFFIC
PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	MS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

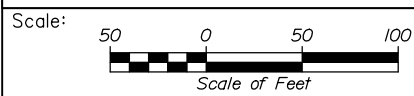
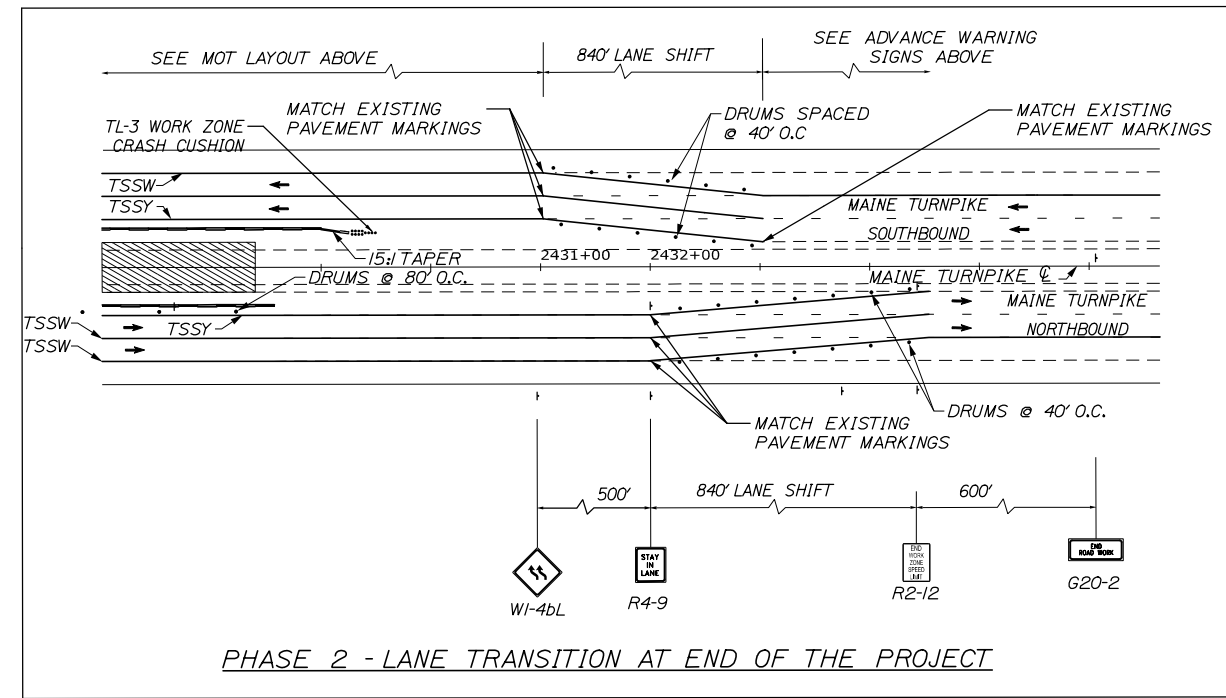
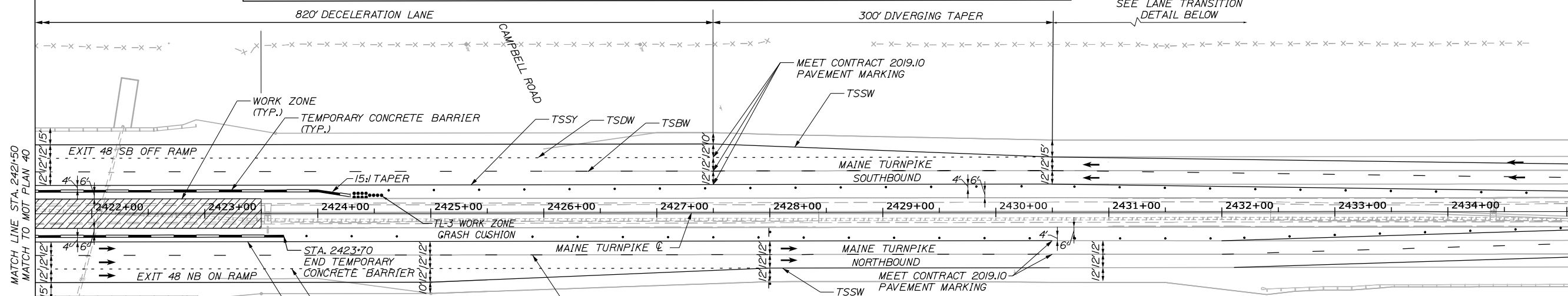
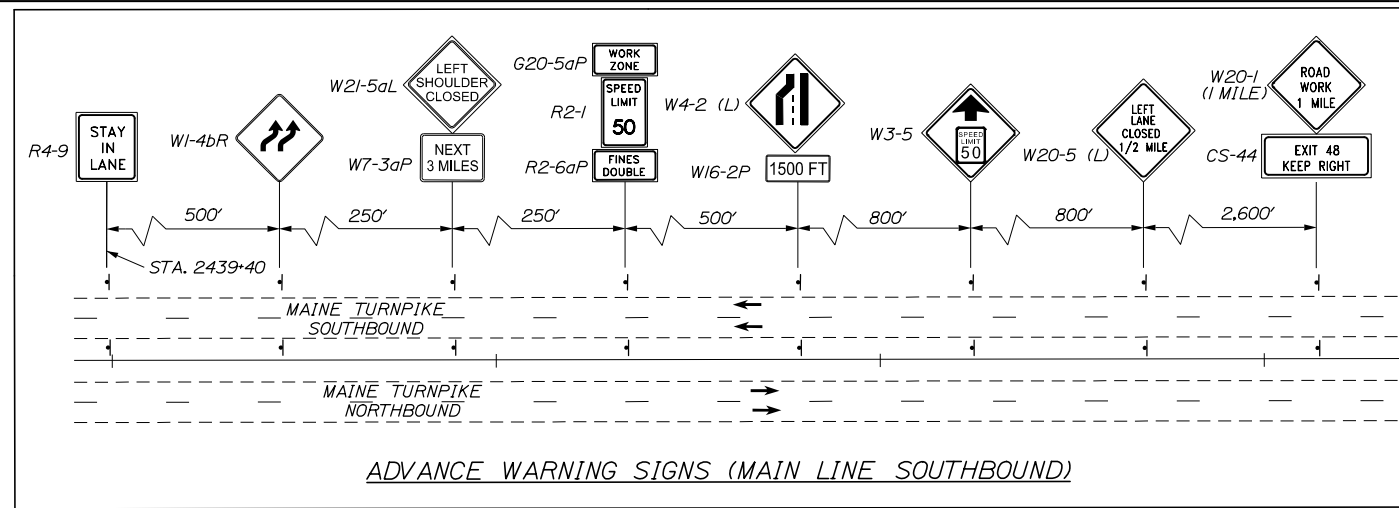
CONTRACTS: 2021.08

SHEET NUMBER: MOT-40

49 OF 376

Date: 9/8/2021

Filename: PAW2_MOT_Phase_2_MOT-41.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINTENANCE OF TRAFFIC
 PHASE 2

SHEET NUMBER: MOT-41
 50 OF 376

CONTRACTS: 2021.08

Date: 9/8/2021

Filename: PAW2_MOT_SignSummary_1_MOT-42

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
E5-1	48"	36"		TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			5	GREEN	WHITE	8"	12.00 (60)
E5-2a	48"	48"					3	ORANGE			16.00 (48)
G20-2	48"	24"					11	ORANGE			8.00 (88)
G20-5aP	48"	24"					14				8.00 (112)
R2-1 (50)	48"	60"					20	WHITE			7.00 (140)
R2-6aP	48"	24"					14				8.00 (112)
R2-12	48"	60"					8				20.00 (180)
R4-9	36"	48"					14				12.00 (168)
W1-4L	48"	48"					4	ORANGE			16.00 (64)
W1-4bR	48"	48"					2				16.00 (32)
W1-4bL	48"	48"					4				16.00 (64)
W1-4cR	48"	48"					4				16.00 (64)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W1-4cL	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			4	ORANGE			16.00 (64)
W3-4	48"	48"					4				16.00 (64)
W3-5 (45)	48"	48"					6				16.00 (12)
W3-5 (50)	48"	48"					7				16.00 (12)
W4-1	48"	48"					5				16.00 (80)
W4-2L	48"	48"					2				16.00 (32)
W4-2R	48"	48"					2				16.00 (32)
W5-1	48"	48"					6				16.00 (96)
W5-4	48"	48"					5				16.00 (80)
W7-3aP (X MILES) (X FEET)	24"	18"					2 4				3.00 (6) 3.00 (12)

Scale: NOT TO SCALE

Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
SIGN SUMMARY

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	MS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: MOT-42

51 OF 376

Date: 9/8/2021

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W8-1	48"	48"	BUMP	TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			4	ORANGE			16.00 (64)
W13-4P	36"	36"	ON RAMP				1				9.00 (9)
W16-2P	30"	24"	XXX FEET				6				5.00 (30)
W20-1 (AHEAD) (1 MILE)	48"	48"	ROAD WORK XXX				11 4				16.00 (176) 16.00 (64)
W20-5aR (1/2 MILE)	48"	48"	2 RIGHT LANE CLOSED 1/2 MILE				2				16.00 (32)
W20-5L (1/2 MILE)	48"	48"	LEFT LANE CLOSED 1/2 MILE				2				16.00 (32)
W20-5R (1/2 MILE)	48"	48"	RIGHT LANE CLOSED 1/2 MILE				2				16.00 (32)
W21-5	48"	48"	SHOULDER WORK				2				16.00 (32)
W21-5aL	48"	48"	LEFT SHOULDER CLOSED				2				16.00 (32)
W21-5aR	48"	48"	RIGHT SHOULDER CLOSED				2				16.00 (32)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W21-5bR	48"	48"	RIGHT SHOULDER CLOSED 1000 FT	TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			2				16.00 (32)
W24-1L	48"	48"					2	ORANGE			16.00 (32)
W24-1R	48"	48"					2				16.00 (32)
W24-1bR	48"	48"					7				16.00 (112)
CS-1	48"	48"	RUMBLE STRIPS AHEAD	6" C 6" C 6" C	4" 4"		4		BLACK		16.00 (64)
CS-3	48"	48"	EXPECT STOPPED TRAFFIC	6" C 6" C 6" C	4" 4"		4				16.00 (64)
CS-4	48"	48"	EXIT CLOSED AHEAD	6" C 6" C 6" C	4" 4"		4				16.00 (64)
CS-10	48"	48"	TRUCKS ENTERING	7" C 7" C	6"		40				16.00 (640)
CS-11	48"	48"	NO STOPPING ON PAVEMENT	6" C 6" C 6" C	4" 4"		1				16.00 (16)

Filename: PAW2_M0T_SignSummary 2_M0T-43

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	MS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC SIGN SUMMARY

SHEET NUMBER: M0T-43
 CONTRACT: 2021.08
 52 OF 376

Date: 9/8/2021

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
CS-19 (EXIT 46) (EXIT 47) (EXIT 48) (1500 FT) (2000 FT)	48"	48"		6" C 6" C 6" C	4" 4"		8	ORANGE	BLACK		16.00 (128)
CS-22	48"	48"		6" C 6" C	4"		22				16.00 (352)
CS-44 (EXIT 46) (EXIT 47) (EXIT 48)	60"	36"		8" C 8" C	7" 6" 7"		6				15.00 (90)

Filename: PAW2_M0T_SignSummary_3_M0T-44.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	MS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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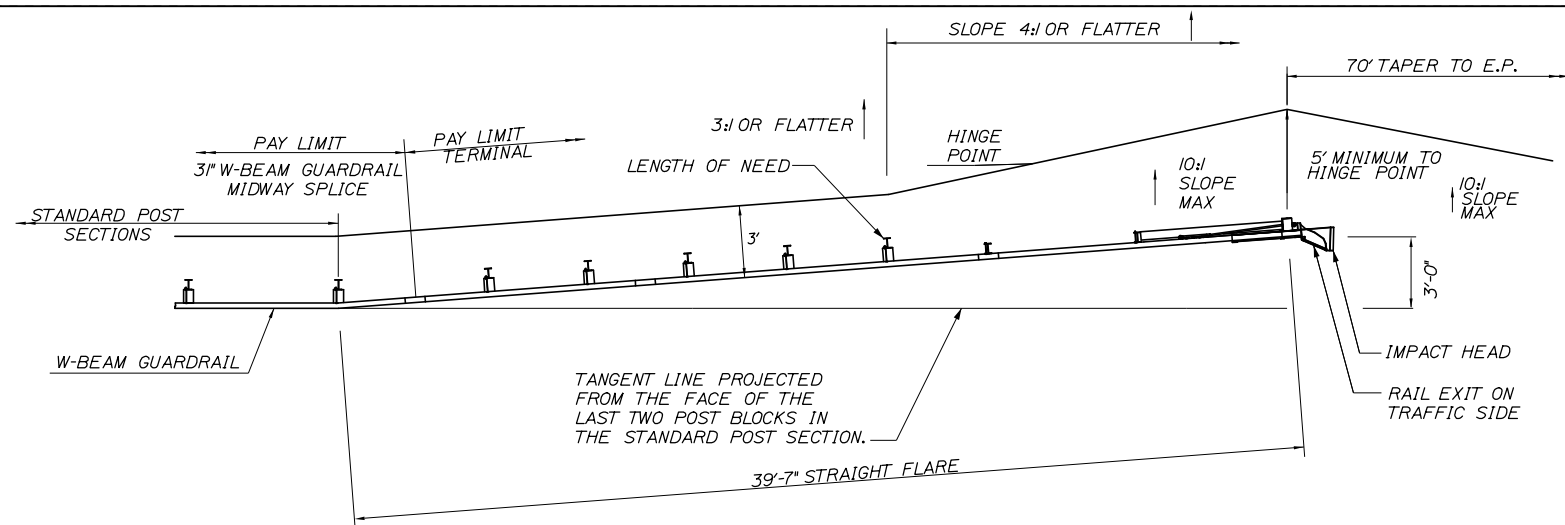
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

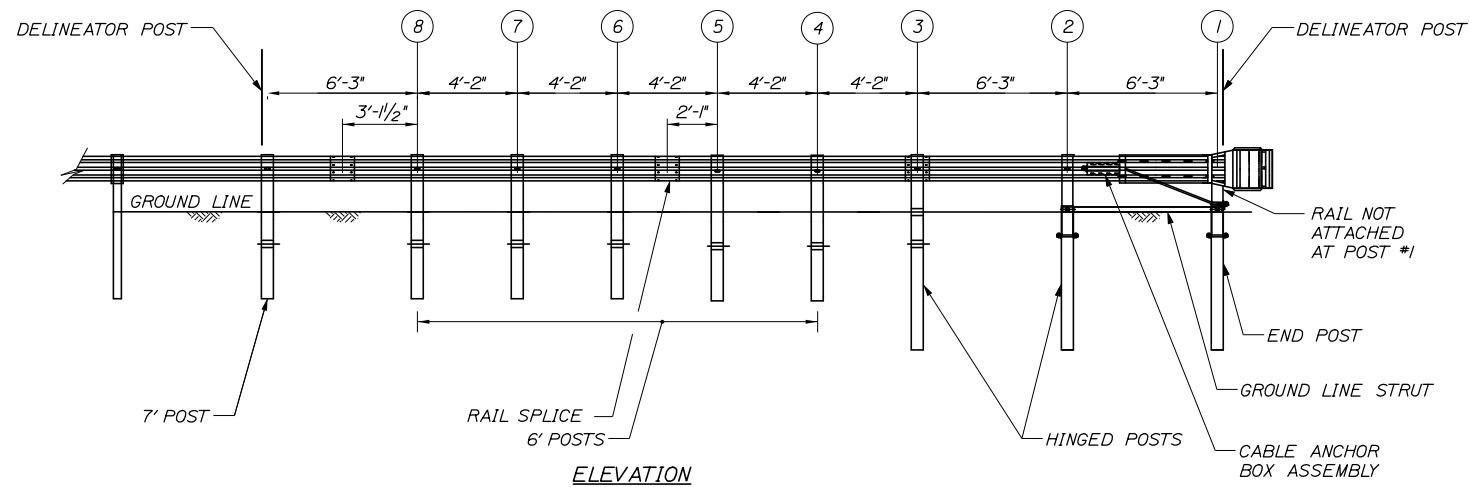
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY

SHEET NUMBER: M0T-44
 CONTRACT: 2021.08
 53 OF 376

Date: 9/8/2021

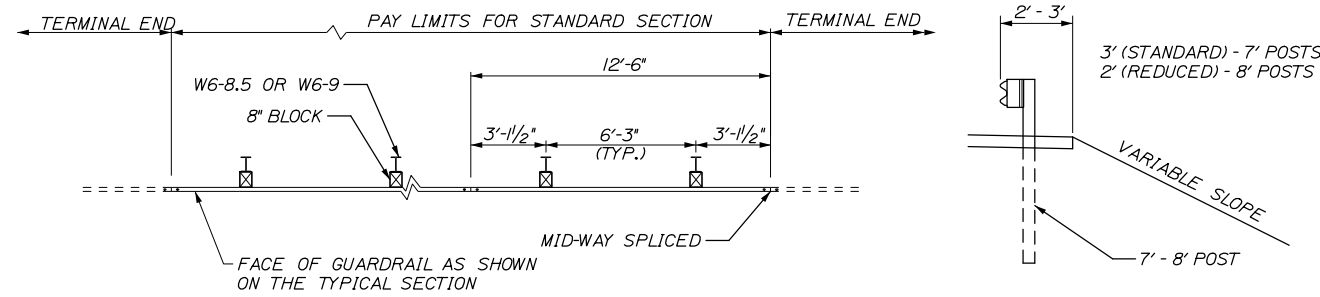


PLAN



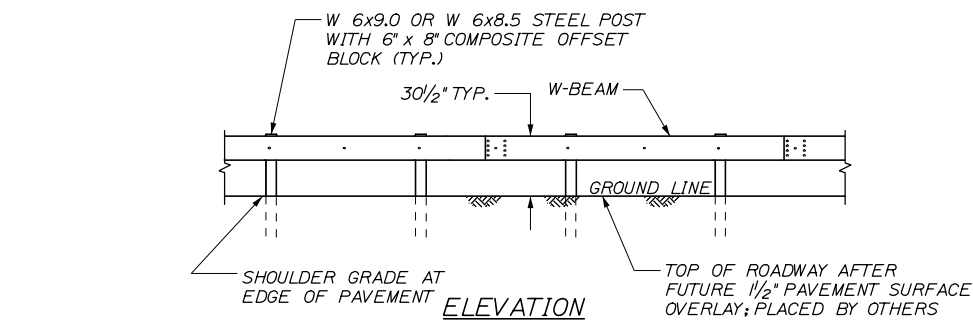
ELEVATION

31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL
NOT TO SCALE

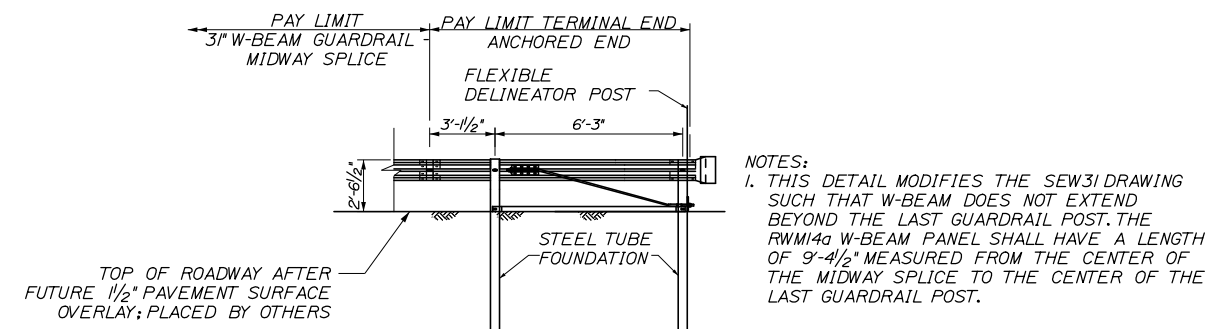


PLAN - SINGLE FACED

CROSS-SECTION



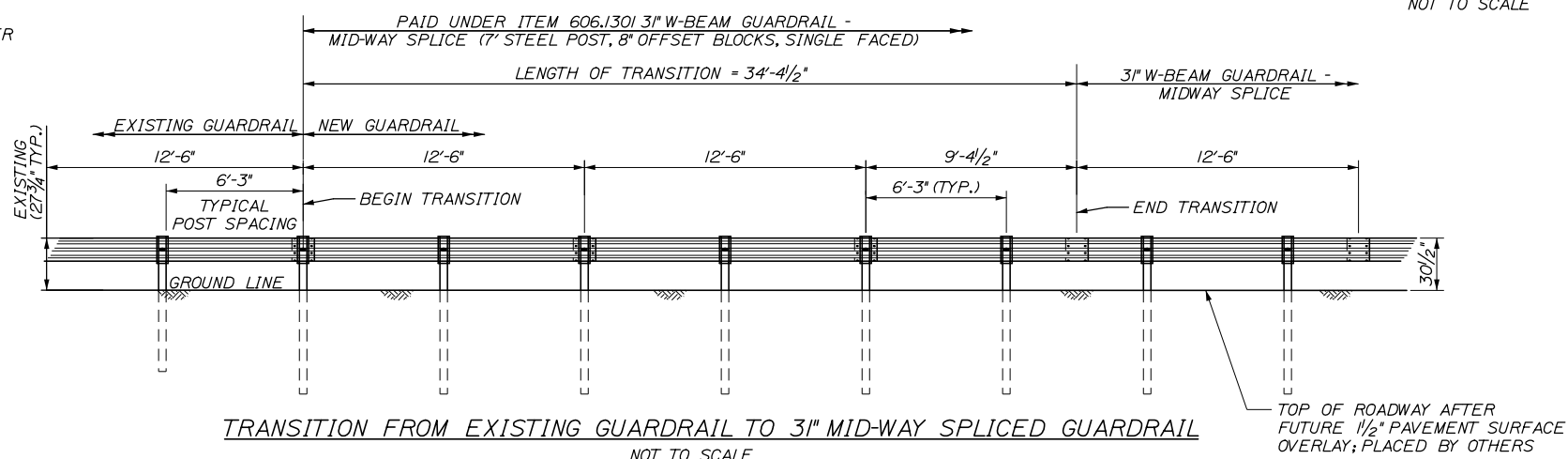
31" W-BEAM GUARDRAIL - MID-WAY SPLICE (8" OFFSET BLOCKS)
NOT TO SCALE



TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL
NOT TO SCALE

GENERAL GUARDRAIL INSTALLATION NOTES:

1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF ALL GUARDRAIL COMPONENTS TO BE INSTALLED. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY CONFLICTS OR IRREGULARITIES BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS PRIOR TO THE REMOVAL OF ANY MOT FEATURES.
3. GUARDRAIL HEIGHT SHALL BE MEASURED FROM GROUND ELEVATION ADJACENT TO EACH POST.
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARD PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING THE GUARDRAIL INSTALLATION.
5. CONNECTION FOR PROPOSED RAIL TO EXISTING RAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.
6. TERMINAL UNIT SHALL BE MFLEAT AND MASH CERTIFIED AS MANUFACTURED BY ROAD SYSTEMS INC.
7. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.
8. TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THIS CONTRACT'S FINAL PAVEMENT SURFACE. THIS WILL RESULT IN A HEIGHT OF 30 1/2" ABOVE A FUTURE 1/2" OVERLAY; INSTALLED BY OTHERS.




TRANSITION FROM EXISTING GUARDRAIL TO 31" MID-WAY SPLICED GUARDRAIL
NOT TO SCALE

- TRANSITION FROM EXISTING GUARDRAIL NOTES:**
1. MAINTAIN STANDARD 1" CLEARANCE OF POST ABOVE PANEL THROUGHOUT THE ENTIRE LENGTH OF TRANSITION.
 2. A MINIMUM OF ONE (1) 12'-6" PANEL SHALL BE PLACED BETWEEN THIS TRANSITION AND THE START OF ANY END TREATMENT OR ANCHORAGE.
 3. ALL NEW POSTS SHALL BE 84" IN LENGTH UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	JS	09\21		PJS	09\21
	GW	09\21		TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

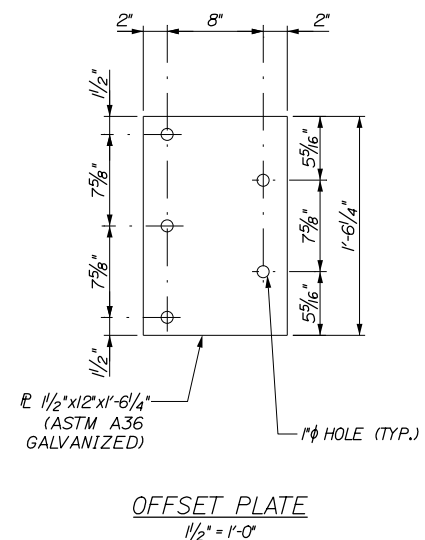
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
GUARDRAIL DETAILS
MIDWAY SPLICE

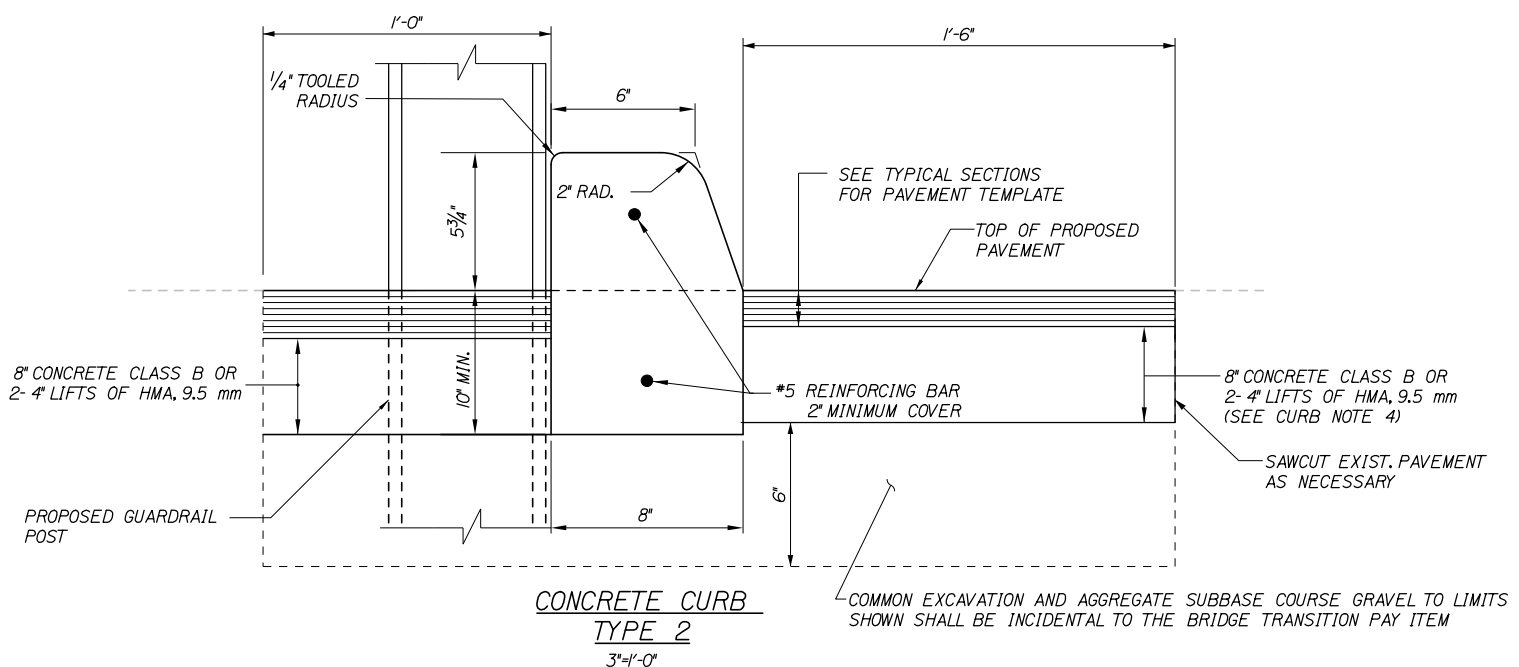
SHEET NUMBER: CD-01
CONTRACT: 2021.08
94 OF 376

Filename: PAW2_GuardrailDetails IV.dgn

Date: 9/8/2021



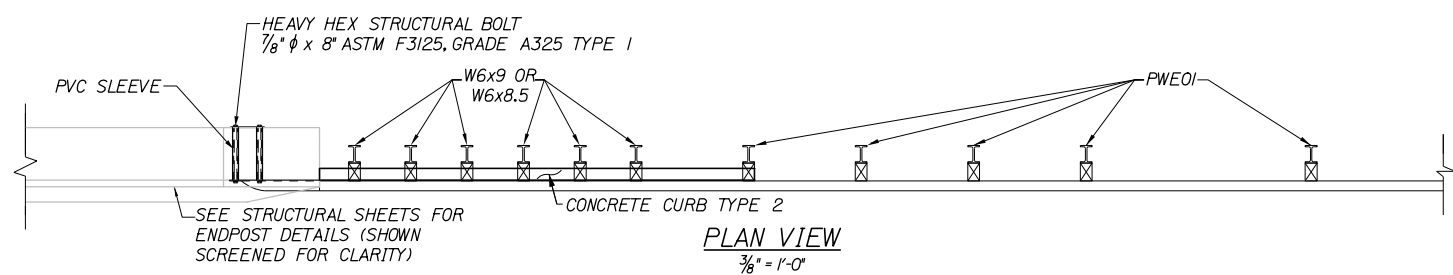
OFFSET PLATE
1/2" = 1'-0"



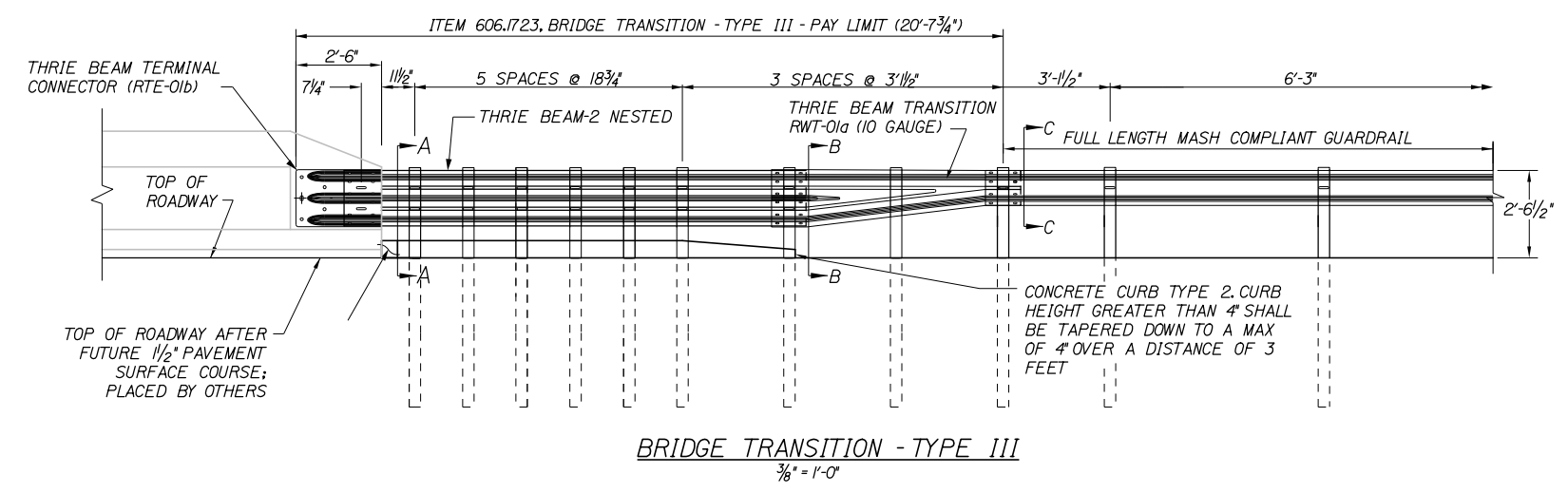
CONCRETE CURB TYPE 2
3" = 1'-0"

- CURB NOTES:**
- CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS.
 - CONCRETE CURBS USED IN CONJUNCTION WITH THREE-BEAM BRIDGE TRANSITION SHALL BE TYPE 2, SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE SET TO FORM A CONTINUOUS GUTTERLINE WITHOUT ANY DRAINAGE OPENINGS.
 - CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.
 - SAWCUTTING EXISTING PAVEMENT, CONCRETE FILL, AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.

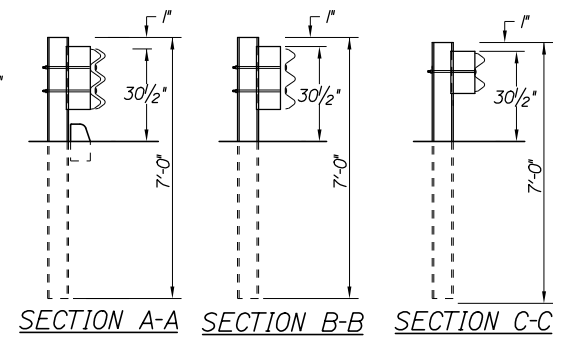
- GUARDRAIL NOTES:**
- ADDITIONAL HOLES MAY BE MADE IN THE THREE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
 - THREE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
 - RAIL ELEMENT SHALL MEET ALL REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THREE BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
 - AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
 - STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESIS RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1979, AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE.
 - 1" HOLE IN CONCRETE SHALL BE FORMED BY A 1" I.D. PVC SLEEVE AS APPROVED BY THE ENGINEER.
 - GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.
 - TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THIS CONTRACT'S FINAL PAVEMENT SURFACE. THIS WILL RESULT IN A HEIGHT OF 30 1/2" ABOVE A FUTURE 1/2" OVERLAY, INSTALLED BY OTHERS.



PLAN VIEW
3/8" = 1'-0"



BRIDGE TRANSITION - TYPE III
3/8" = 1'-0"



Filename: PAW2_GuardrailDetails II.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	Designed	JS 09\21		Checked	PJS 09\21
	Drawn	GW 09\21		In Charge of	TRC 09\21

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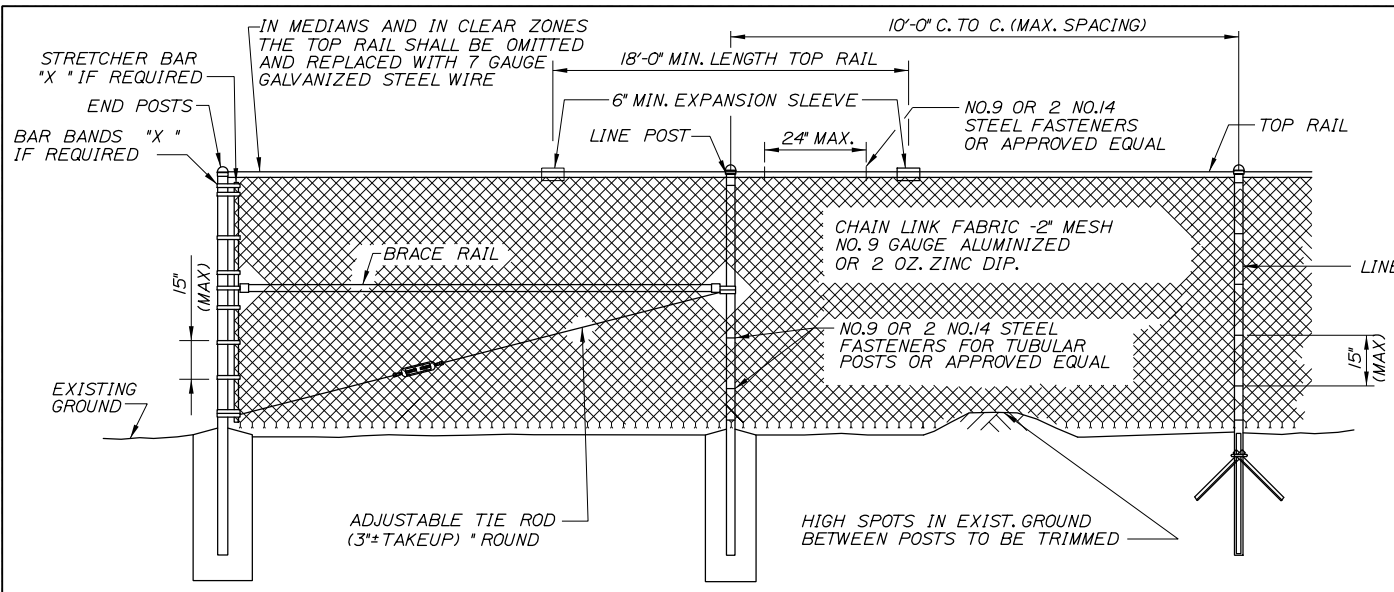
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

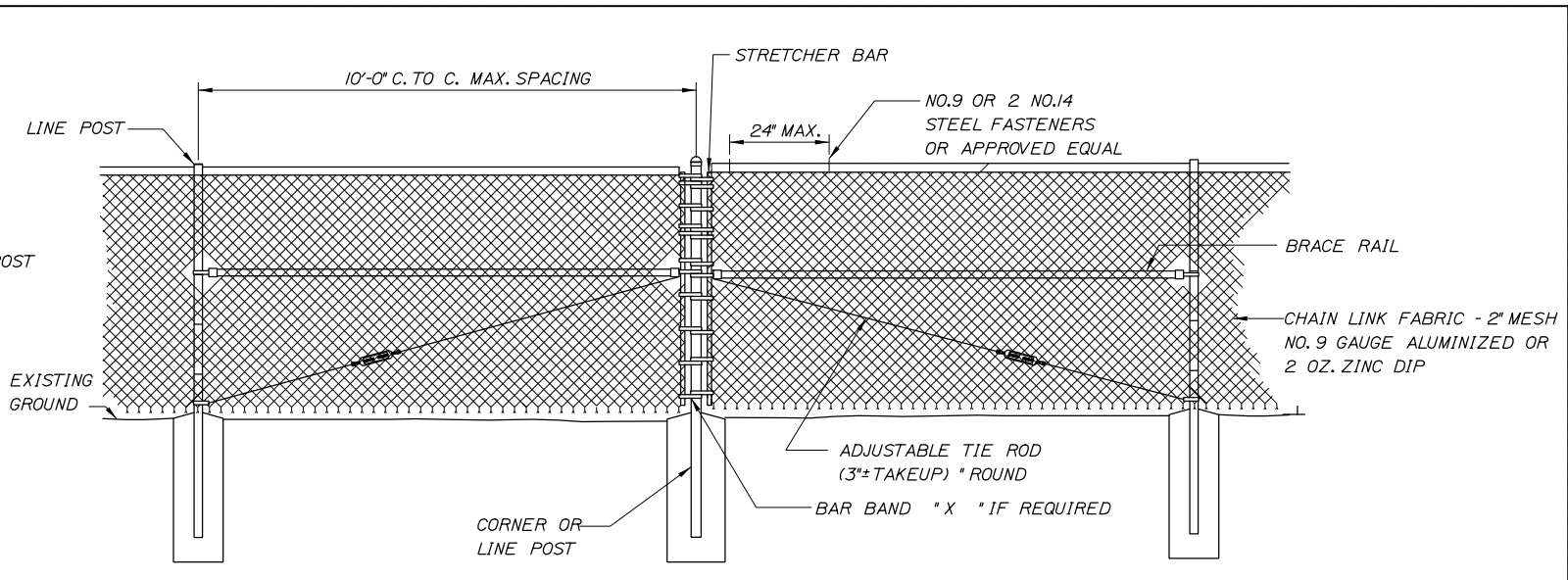
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
GUARDRAIL DETAILS
BRIDGE TRANSITION

SHEET NUMBER: CD-02
CONTRACT: 2021.08
95 OF 376

Date: 9/8/2021

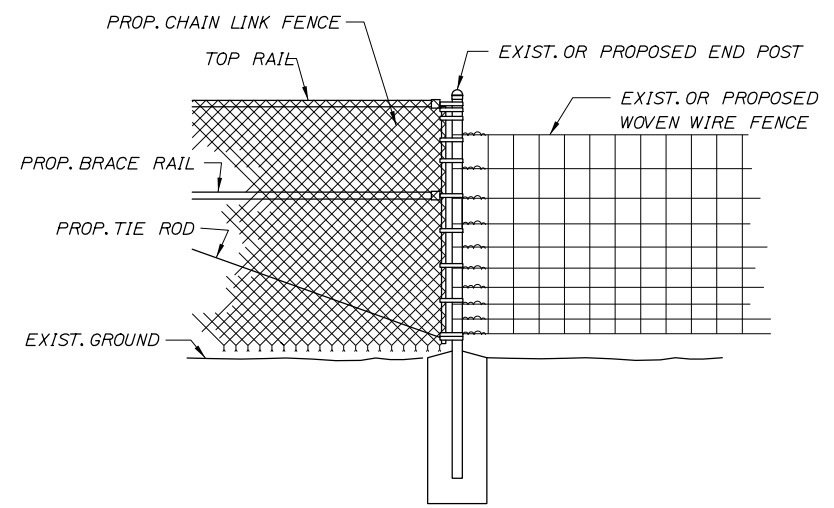


TYPICAL TYPE I END PANEL
N.T.S.

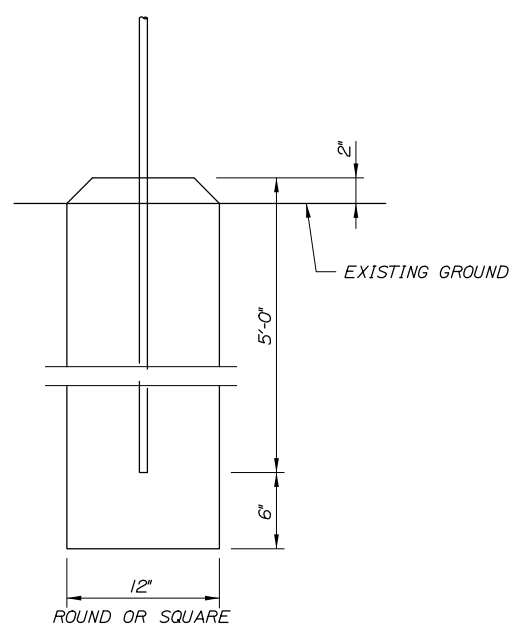


TYPICAL TYPE II BRACE PANEL
N.T.S.

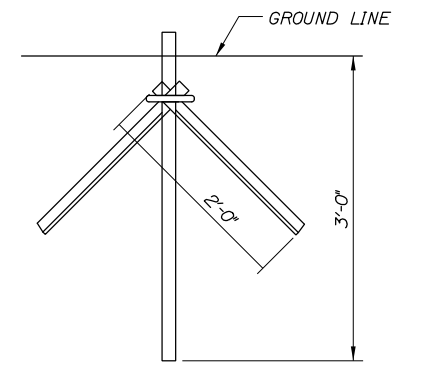
TYPICAL INTERMEDIATE PANEL
N.T.S.



METHOD OF ATTACHING CHAIN LINK FENCE TO WOVEN WIRE FENCE
N.T.S.



BRACE, GATE AND END POST BASE DETAIL
N.T.S.



LINE POST DRIVE ANCHOR DETAIL
N.T.S.

GATE WIDTH		GATE POST O.D.
W1	W2	
TO 6'	TO 12'	3"
6' TO 12'	12' TO 24'	4"
12' TO 18'	24' TO 36'	6"

BENDING MOMENTS BASED ON GRADE 1 (SCHEDULE 40 STEEL)

CHAIN LINK FENCE	SHAPE	NOMINAL SIZE (INCHES)	BENDING MOMENT* (LBS.-IN.)
END & CORNER POSTS	φ	2 I.D.	14,025
LINE POSTS	φ	1-1/2 I.D.	8,150
TOP & BRACE RAILS	φ	1-1/4 I.D.	5,875

* MATERIAL FOR GRADE 2 END, CORNER & LINE POSTS AND TOP & BRACE RAILS MUST MEET OR EXCEED BENDING MOMENTS FOR GRADE 1 STEEL AS NOTED ABOVE.

NOTES:

- BRACE PANELS SHALL BE INSTALLED WHERE THE CHANGE IN GRADE BETWEEN ANY THREE POSTS EXCEEDS 15 PERCENT.
- NO ADDITIONAL PAYMENT WILL BE MADE FOR LONGER POSTS NECESSITATED BY LARGE GRADE DIFFERENTIAL.
- TYPE I BRACING WILL BE USED AT FENCE ENDS. TYPE II BRACING WILL BE USED AT CORNER POSTS.
- WHEN LEDGE IS ENCOUNTERED, STEEL POSTS SHALL BE SET AND GROUTED 12" DEEP UNLESS THE POSTS PENETRATE THE GROUND TO THE DEPTH INDICATED ON THE DRAWINGS.
- CONCRETE FOR POST FOUNDATION SHALL BE CLASS B.
- BRACE, GATE AND END POSTS SHALL BE SET IN CONCRETE.
- CHAIN LINK FENCE SHALL BE INSTALLED WITH BARBS DOWN.
- ALL COMPONENTS OF CHAIN LINK FENCE SHALL BE IN ACCORDANCE WITH AASHTO M181.

Filename: PAW2_Fence_Details.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

By	Date	By	Date
Designed JS	09\21	Checked PJS	09\21
Drawn GW	09\21	In Charge of TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

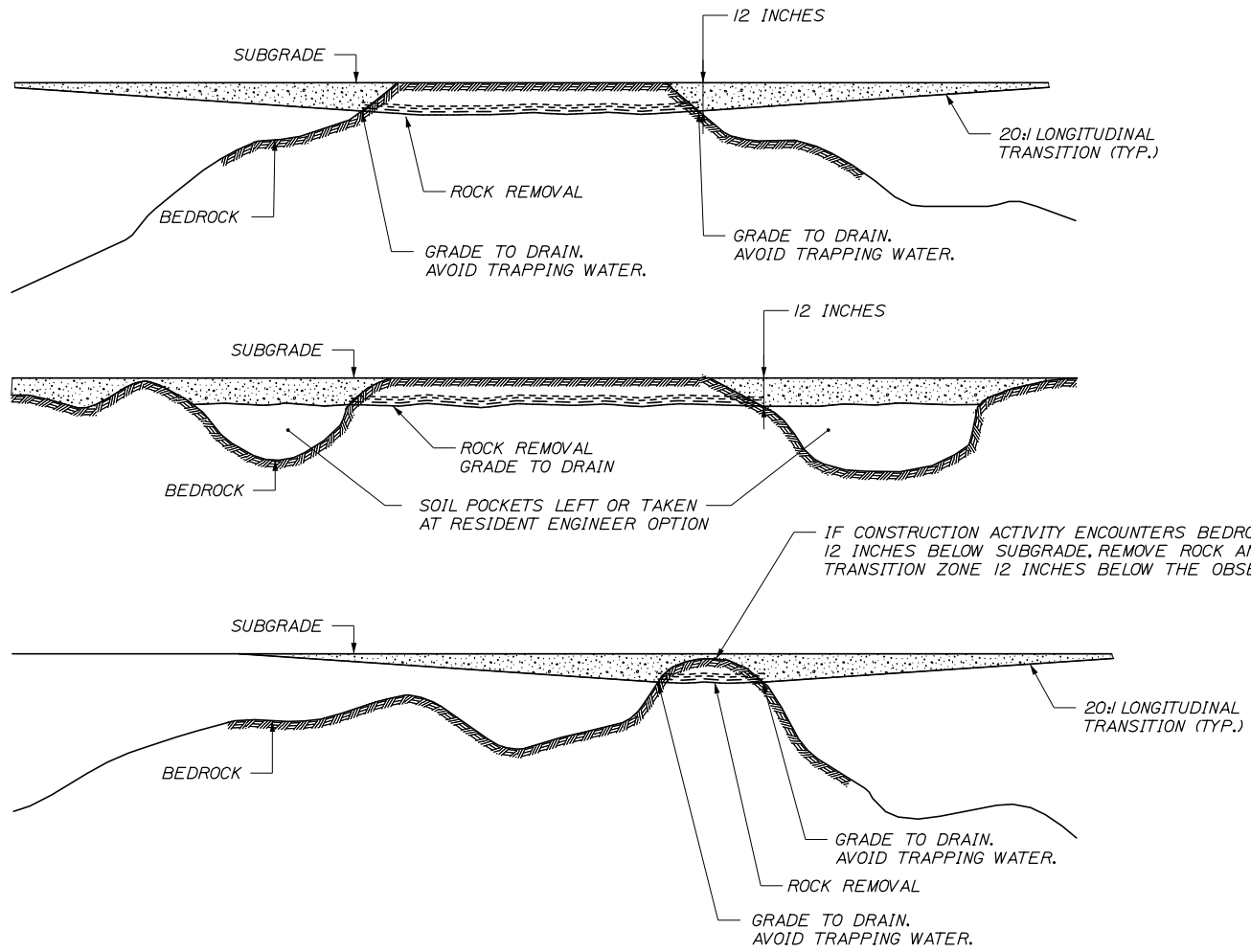
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
CHAIN LINK FENCE DETAILS

SHEET NUMBER: CD-03
CONTRACT: 2021.08
96 OF 376

Date: 9/8/2021

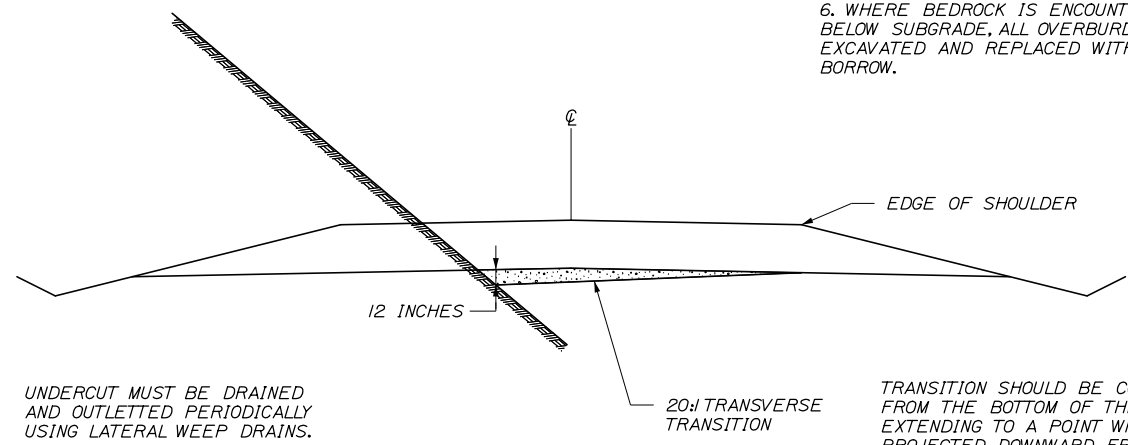
- NOTES:**
- EXCAVATION OF THE TRANSITION ZONES SHALL BE PAID FOR AS COMMON EXCAVATION. THE CONTRACTOR SHALL REPLACE THE FROST SUSCEPTIBLE SOILS WITH GRANULAR BORROW FOR UNDERWATER BACKFILL AND SHALL BE PAID FOR UNDER THE GRANULAR BORROW PAY ITEM.
 - FOR POTENTIAL BEDROCK LOCATIONS, REFER TO THE SUBSURFACE EXPLORATION REPORT AND CROSS SECTIONS. ACTUAL BEDROCK LOCATIONS WILL VARY.
 - REFER TO GEOTECHNICAL DESIGN REPORT FOR ADDITIONAL TRANSITION ZONE DETAILS.
 - APPROXIMATE ANTICIPATED AREAS OF LEDGE ARE SHOWN ON CROSS SECTIONS. ADDITIONAL AREAS OF LEDGE MAY BE ENCOUNTERED AND THE NEED FOR UNDERCUT AND TRANSITIONS SHOULD BE VERIFIED BY THE RESIDENT.
 - ROCK REMOVAL DEPTH SHALL BE 12 INCHES BELOW SUBGRADE IN ALL AREAS WHERE ROCK IS ENCOUNTERED TO CREATE SUBGRADE. THE ROCK SUBGRADE SHALL BE GRADED TO DAYLIGHT TO AVOID PONDING.
 - WHERE BEDROCK IS ENCOUNTERED WITHIN 2' BELOW SUBGRADE, ALL OVERBURDEN SOIL SHALL BE EXCAVATED AND REPLACED WITH GRANULAR BORROW.



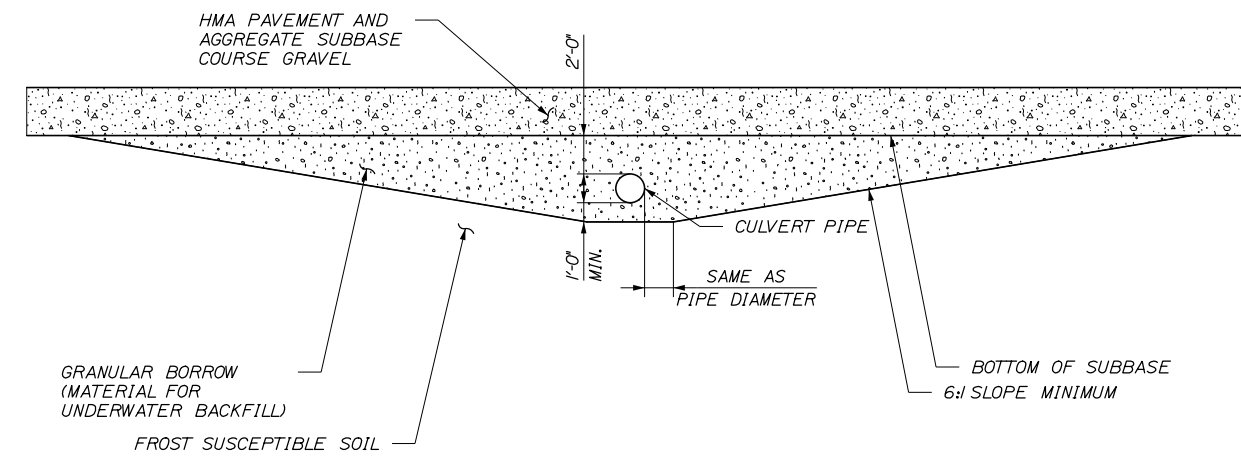
IF A SOIL SECTION BETWEEN LEDGE SUBGRADE IS OF SUCH LENGTH THAT THE TRANSITION FROM EACH EDGE WOULD MEET, IT SHOULD BE TREATED AS AN EARTH POCKET.

PROFILE OF UNDERCUT OF FROST SUSCEPTIBLE SOILS OVER LEDGE

- LEGEND**
- SOLID BEDROCK
 - FROST SUSCEPTIBLE SOIL TO BE UNDERCUT AND REPLACED WITH NON FROST SUSCEPTIBLE MATERIAL; GRANULAR BORROW FOR UNDERWATER BACKFILL
 - FROST SUSCEPTIBLE SOIL
 - ROCK REMOVAL



TRANSVERSE UNDERCUT OF FROST SUSCEPTIBLE SOILS OVER LEDGE



CROSS CULVERT IN FROST SUSCEPTIBLE SOILS

NOTE:
FOR CROSS CULVERT OR PIPE IN BEDROCK, MODIFY TRANSITION SLOPE TO 2:1, AND MODIFY BACKFILL TO CRUSHED STONE EXCEPT THAT PIPE SHALL BE BEDDED ON GRANULAR BORROW FOR UNDERWATER BACKFILL.

Filename: PAW2_Undercut-for-Ledge.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	PJS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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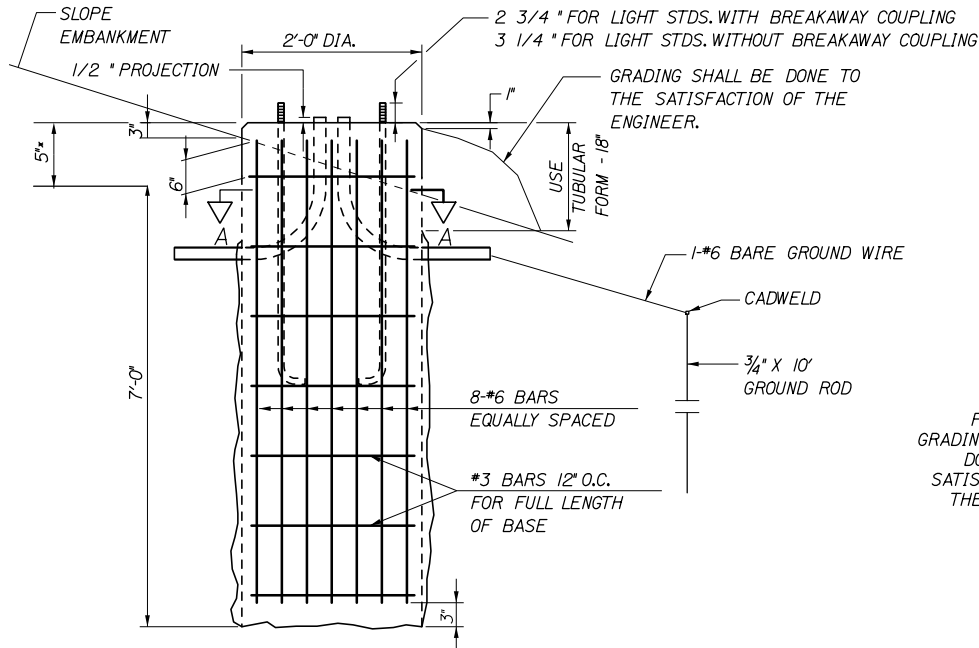
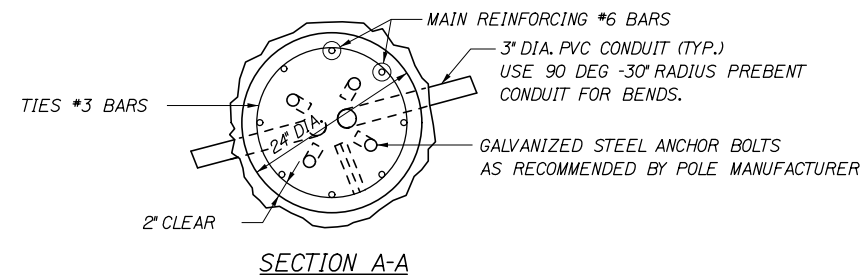
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

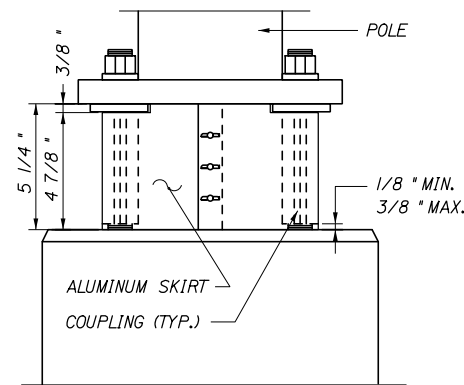
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SPECIAL DETAILS

SHEET NUMBER: CD-04
CONTRACT: 2021.08
57 OF 376

Date: 9/8/2021

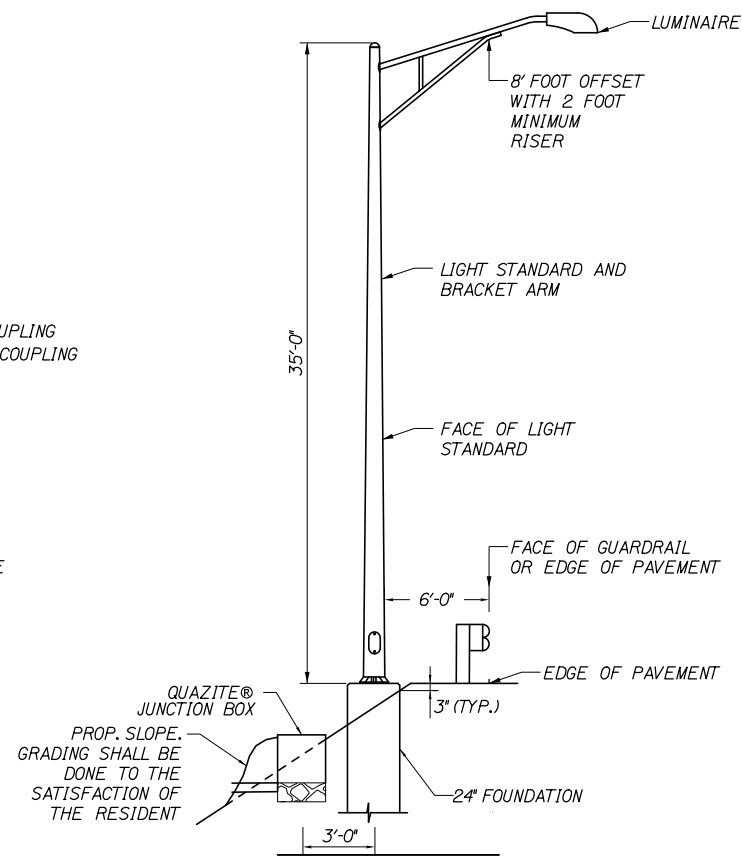


NOTE: WHERE SOLID ROCK IS ENCOUNTERED AT LESS THAN THE REQUIRED DISTANCE BELOW GROUND LEVEL, REINFORCING STEEL SHALL BE DOWELED INTO LEDGE AS SHOWN ON MAINE DOT STANDARD DETAIL 626(06). PAYMENT SHALL BE INCIDENTAL TO THE FOUNDATION PAY ITEM.

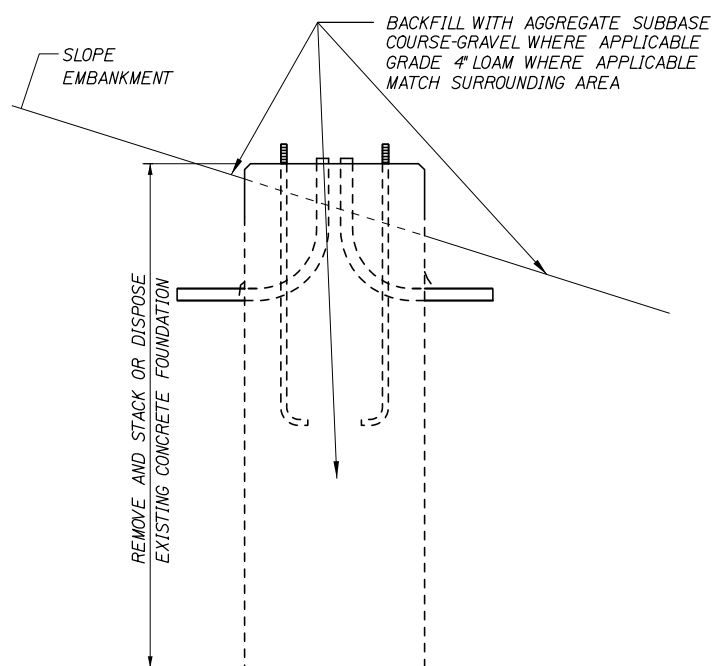


BREAKAWAY COUPLINGS AND SKIRT DETAIL *

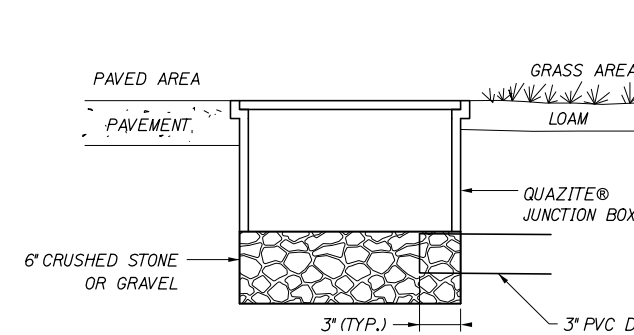
* BREAKAWAY COUPLINGS SHALL BE REQUIRED ON ALL NEW AND RESET LIGHT STANDARDS



PLACEMENT OF LIGHT STANDARD

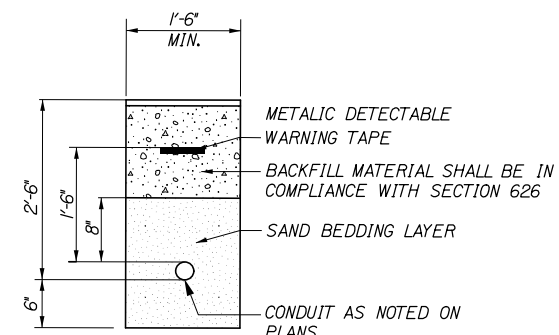


REMOVAL OF CONCRETE FOUNDATION

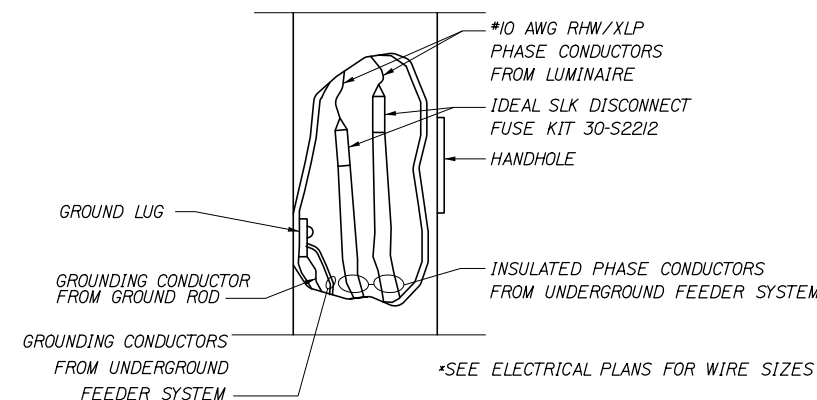


JUNCTION BOX COVER & FRAME

NOTE: INSTALL JUNCTION BOXES ON GRADE



TRENCH CROSS SECTION



TYPICAL POLE WIRING DETAIL

NOTES:


- JUNCTION BOXES FOR HIGHWAY LIGHTING SHALL BE QUAZITE® OR APPROVED EQUAL AND IN ACCORDANCE WITH SPECIAL PROVISION 626.
- SPLICES IN JUNCTION BOX SHALL BE MADE WITH BURNDY UGS350ULDB DIRECT BURIAL/SUBMERSIBLE SPLICE WIRE RANGE #12 AWG - 350 KCMIL, ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.
- RAMP LIGHTING SHALL BE MAINTAINED AT ALL TIMES.

Filename: PAW2_LightingDetails.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	JS	09\21	
	Checked	TRC	09\21
	By	Date	
	GW	09\21	
	In Charge of	TRC	09\21

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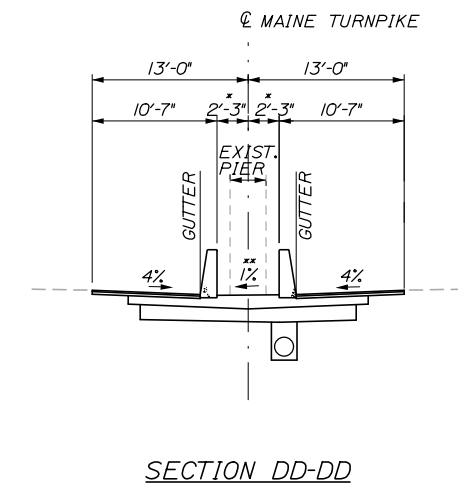
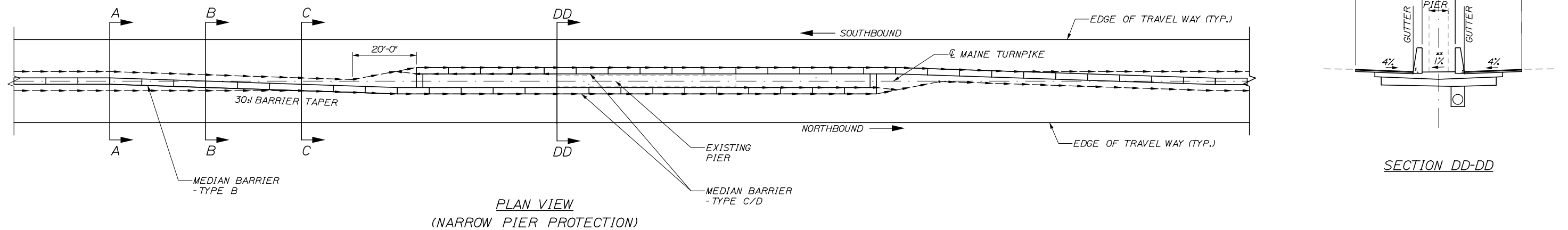
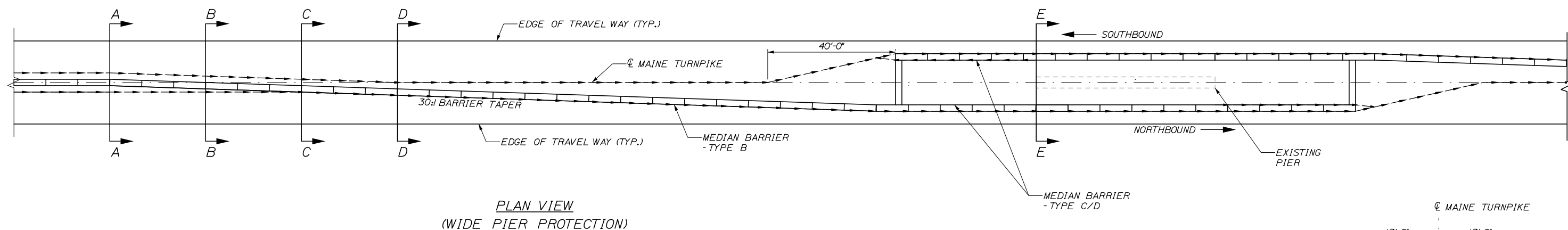
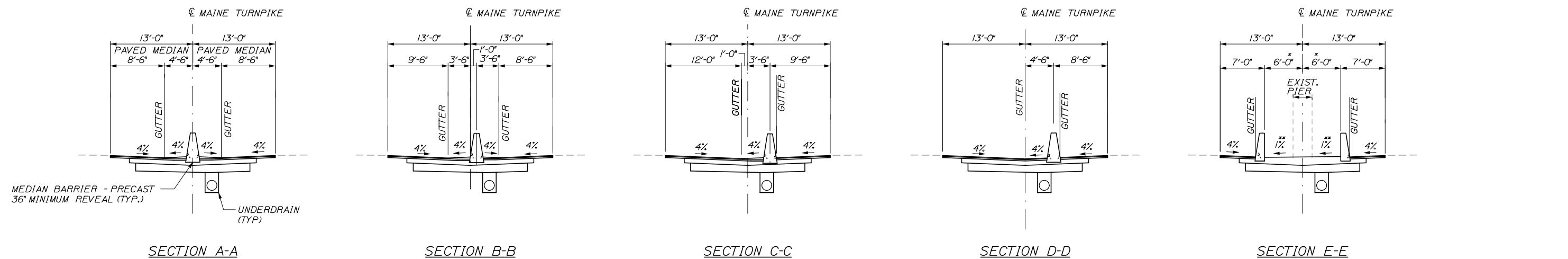
**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 LIGHTING DETAILS

SHEET NUMBER: CD-05
 CONTRACT: 2021.08
 58 OF 376

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

Date: 9/8/2021



NOTES:
 * SEE MEDIAN PIER PROTECTION BARRIER LAYOUT SHEET BD-03 FOR MORE DETAILS.
 ** SEE MEDIAN GRADING DETAILS FOR MORE INFORMATION.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	PEK	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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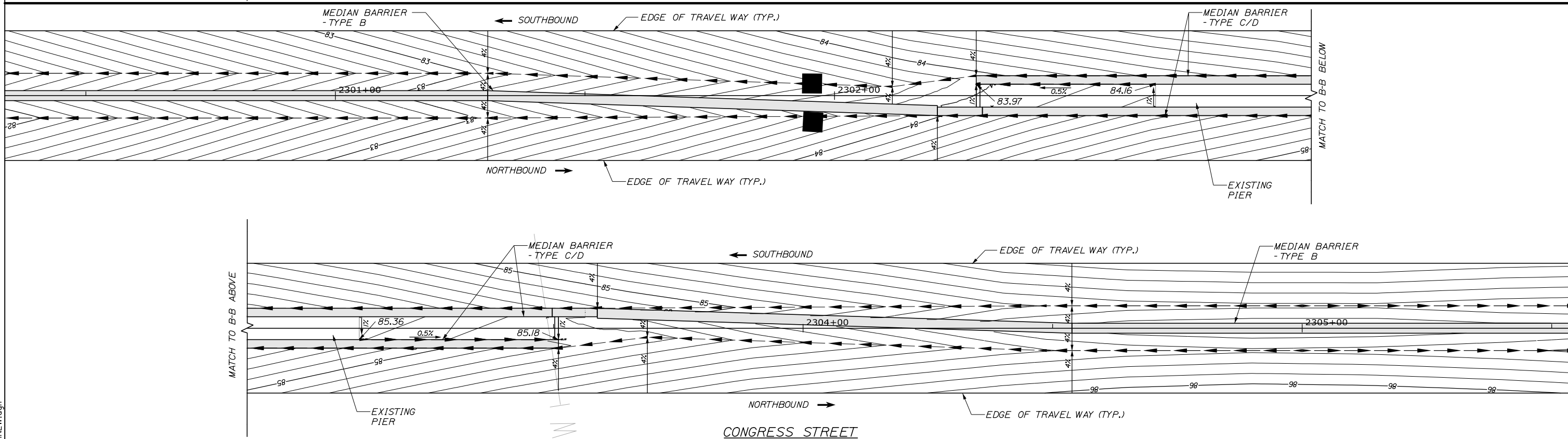
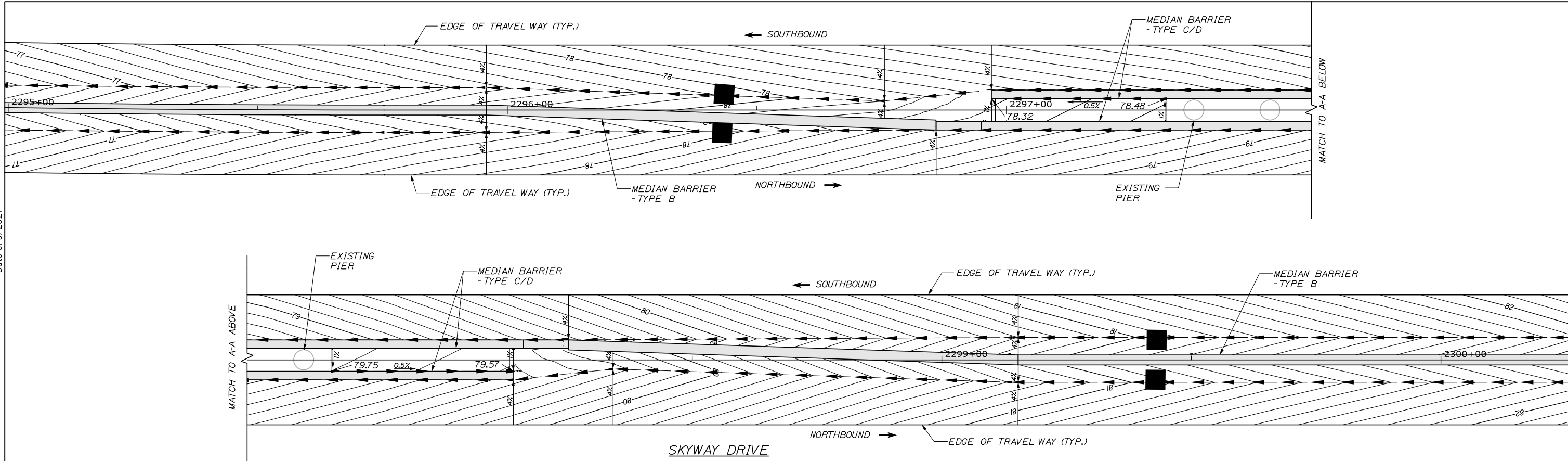
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 BARRIER SHIFT DETAIL

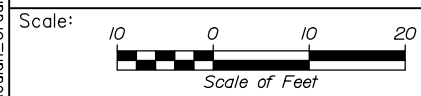
SHEET NUMBER: CD-06
 CONTRACT: 2021.08
 59 OF 376

Filename: PAW2_drn_barrier_trans.dgn

Date: 9/9/2021



Filename: PAW2_Median_Grading_01NEW.dgn



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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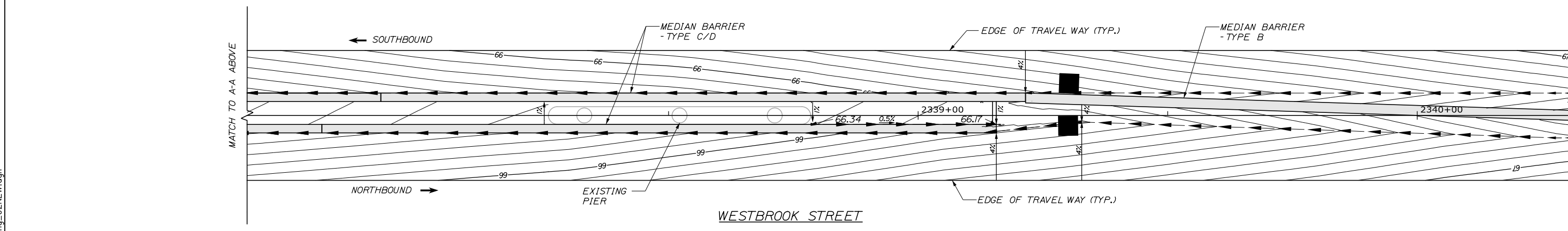
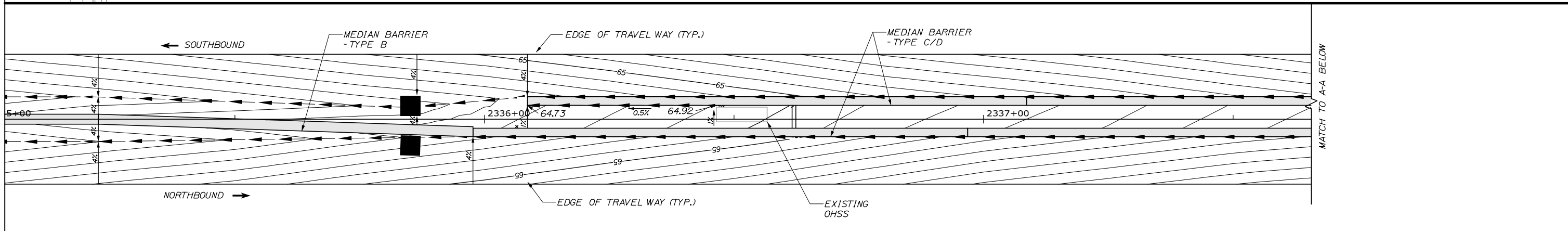
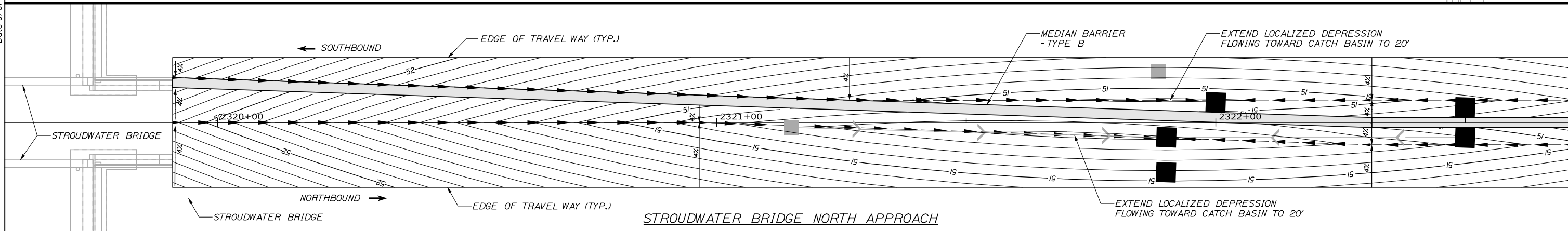
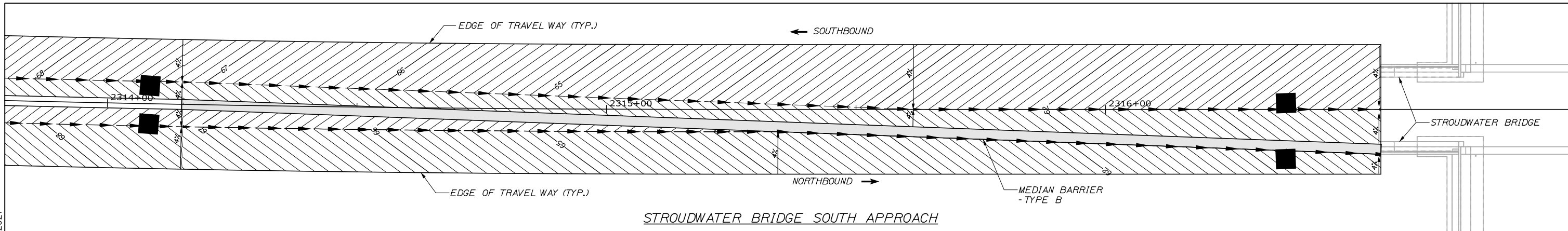
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN GRADING DETAILS (1 OF 5)

SHEET NUMBER: CD-07
CONTRACT: 2021.08
60 OF 376

Date: 9/9/2021



Filename: PAW2_Median_Grading_02NEW.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	ALZ	09\21		PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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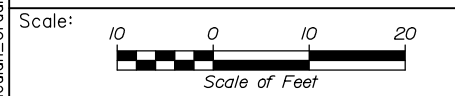
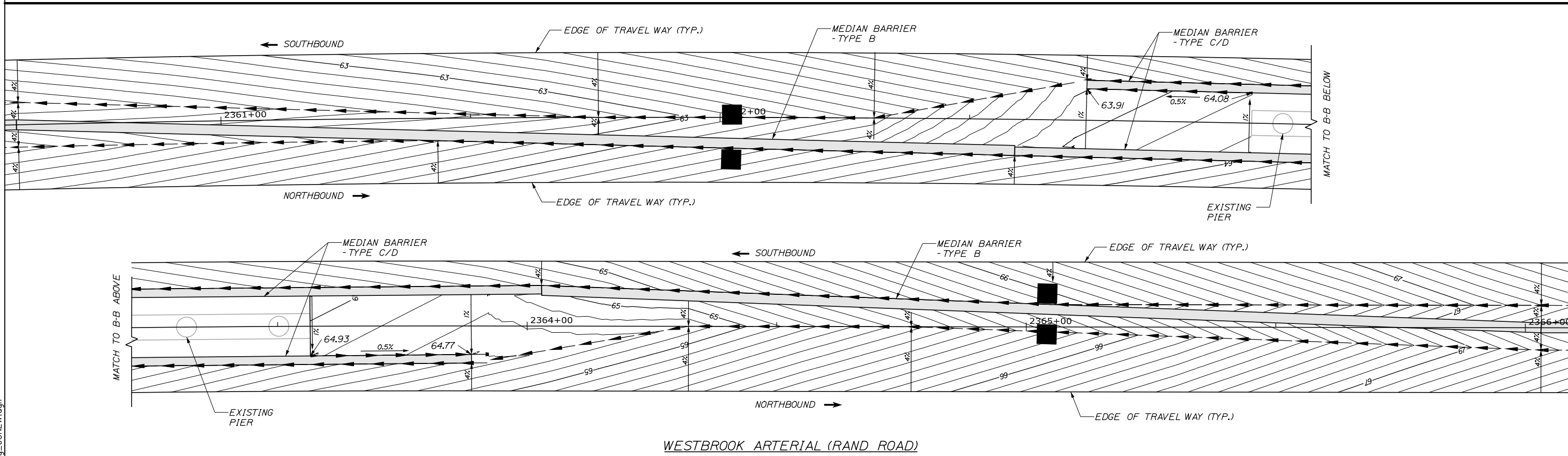
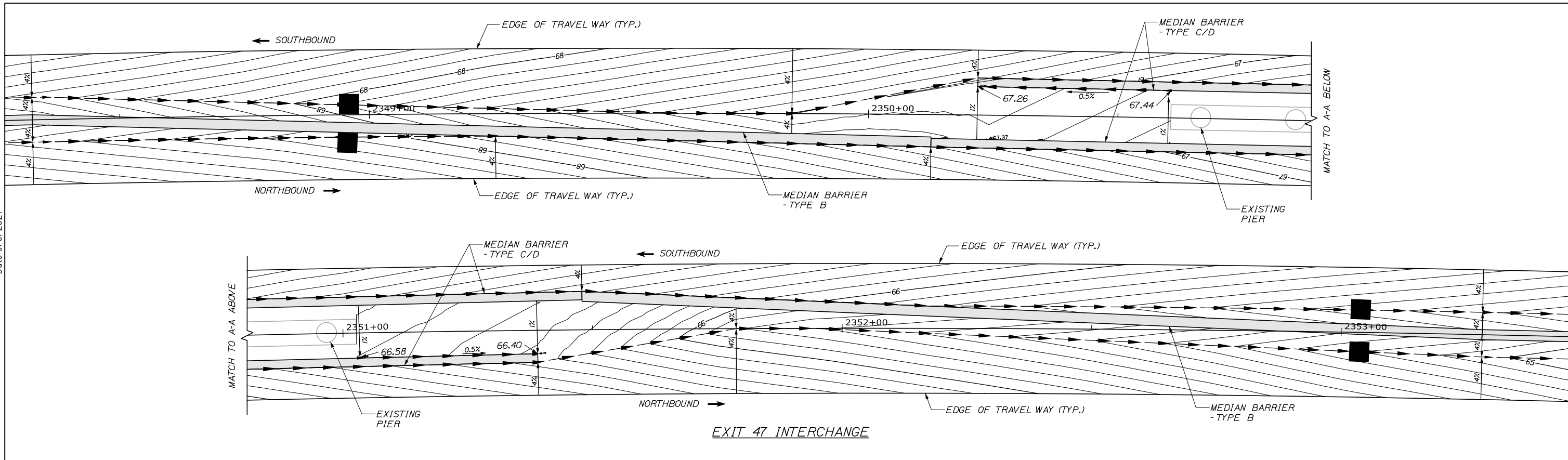
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN GRADING DETAILS (2 OF 5)

SHEET NUMBER: CD-08
 CONTRACT: 2021.08
 61 OF 376

Date: 9/9/2021



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

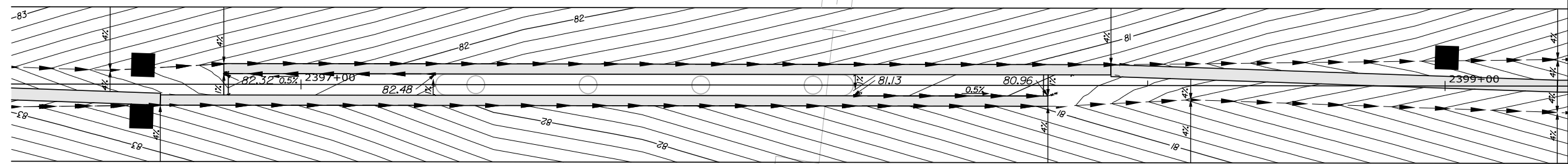
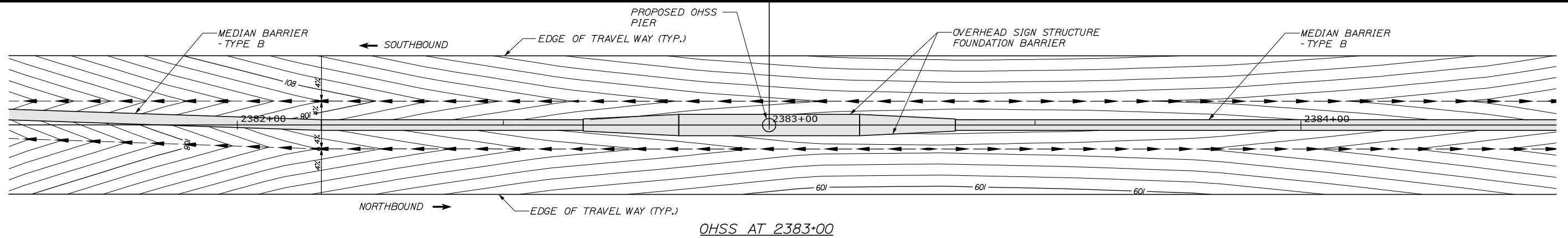
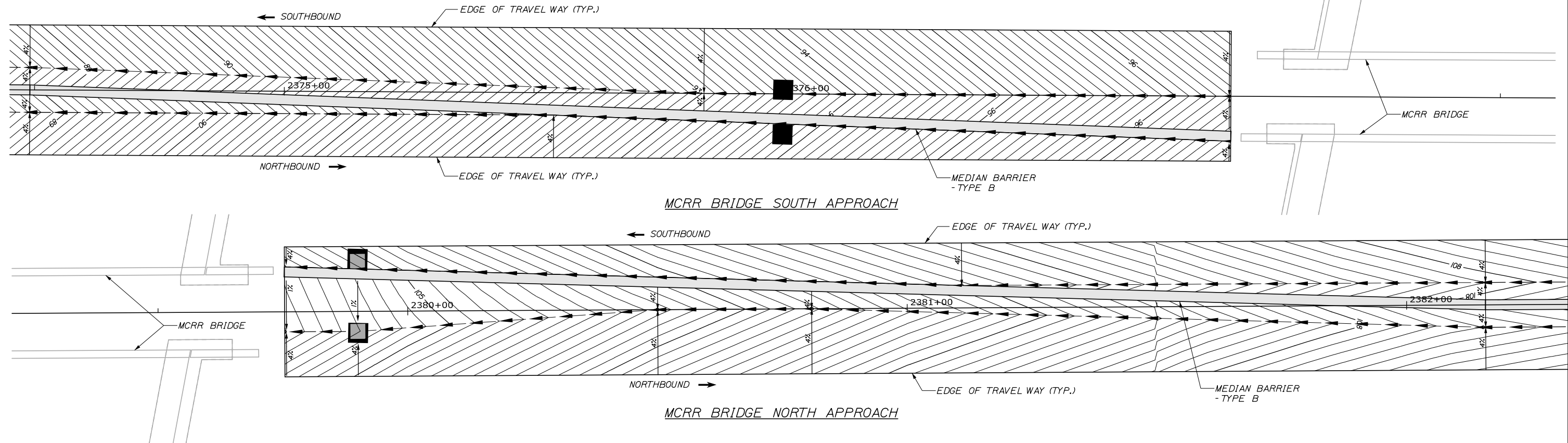
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN GRADING DETAILS (3 OF 5)

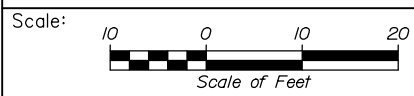
SHEET NUMBER: CD-09
 CONTRACT: 2021.08
 62 OF 376

Filename: PAW2_Median_Grading_03NEW.dgn

Date: 9/9/2021



Filename: PAW2_Median_Grading_04NEW.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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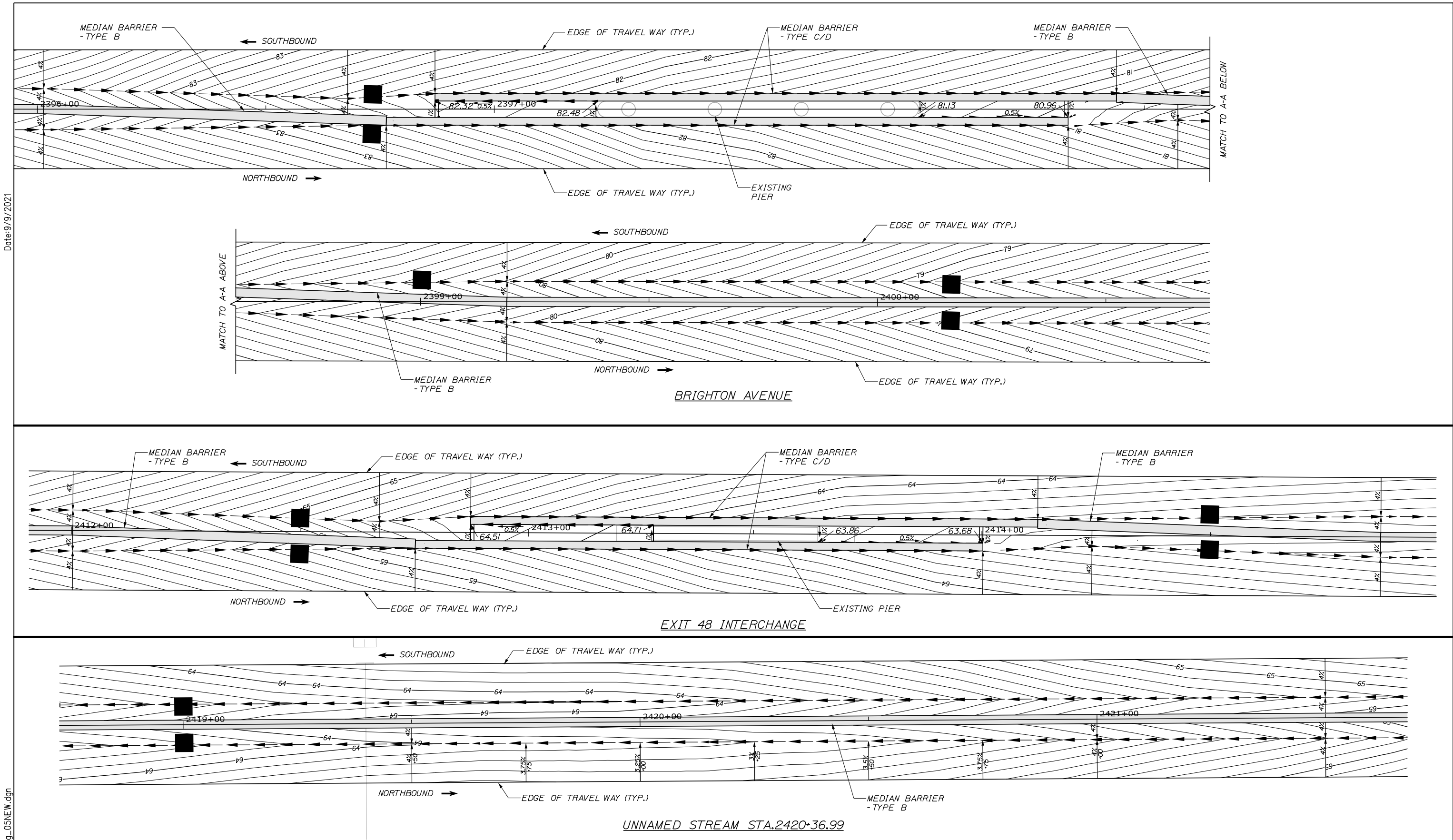
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN GRADING DETAILS (4 OF 5)

SHEET NUMBER: CD-10
 CONTRACT: 2021.08
 63 OF 376

Date: 9/9/2021



Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	ALZ	09\21		PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN GRADING DETAILS (5 OF 5)

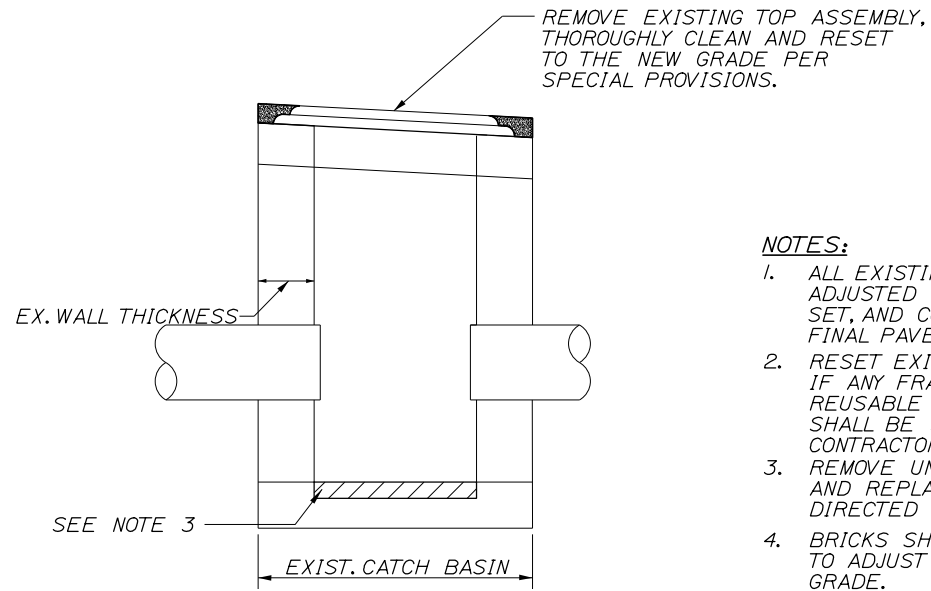
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CONTRACT: 2021.08

64 OF 376

Filename: PAW2_Median_Grading_05NEW.dgn

Date: 9/8/2021

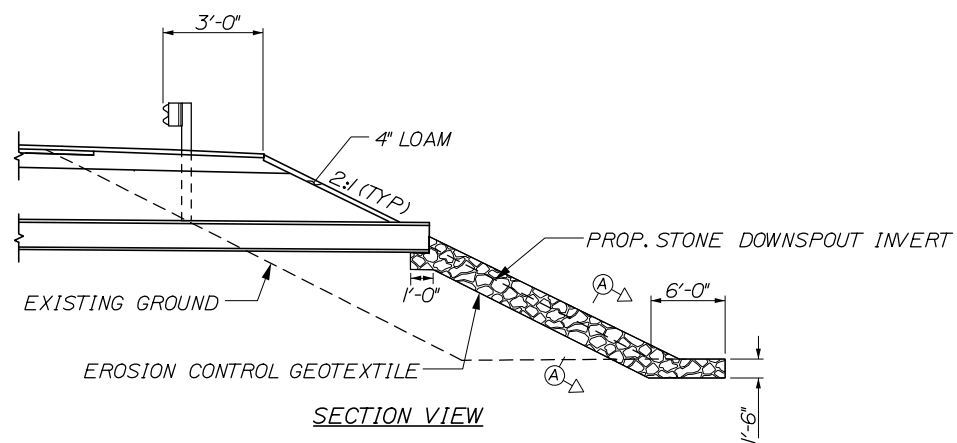


ELEVATION VIEW

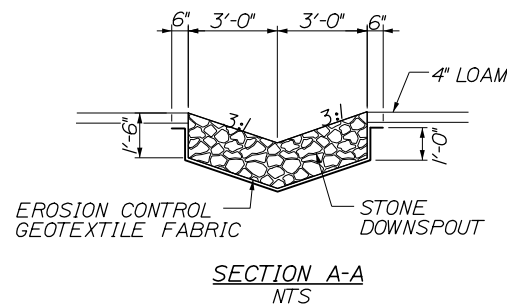
ADJUST CATCH BASIN TO GRADE

NOTES:

1. ALL EXISTING CATCH BASINS SHALL BE ADJUSTED WITH THE FRAME AND GRATE SET, AND CONCRETE FINISHED, TO THE FINAL PAVEMENT GRADE.
2. RESET EXISTING FRAME AND GRATE. IF ANY FRAMES OR GRATES ARE NOT REUSABLE NEW GRATES OR FRAMES SHALL BE SUPPLIED BY THE CONTRACTOR.
3. REMOVE UNSOUND CONCRETE (2" MIN.) AND REPLACE WITH NEW CONCRETE IF DIRECTED BY THE RESIDENT.
4. BRICKS SHALL NOT BE USED TO ADJUST FRAMES TO GRADE.



SECTION VIEW



SECTION A-A
NTS

NOTES:

1. STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MAINE DOT SPECIFICATION 703.29 AND WILL BE PAID FOR UNDER ITEM 610.08, PLAIN RIPRAP.
2. CURBING MUST BE IN PLACE PRIOR TO GUARDRAIL INSTALLATION.

1 LF OF DOWNSPOUT= 0.33 CY OF PLAIN RIPRAP

1 LF OF DOWNSPOUT= 1.04 SY OF EROSION CONTROL GEOTEXTILE FABRIC

OUTLET ON SLOPE

Filename: PAW2_DR_DET_01.dgn

Scale: NONE

Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
DRAINAGE DETAILS (1 OF 2)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	BPP	09\21	Checked	PEK	09\21
Drawn	BPP	09\21	In Charge of	TRC	09\21

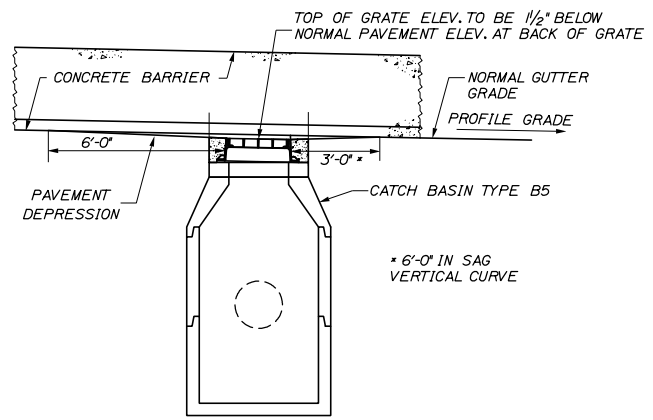
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

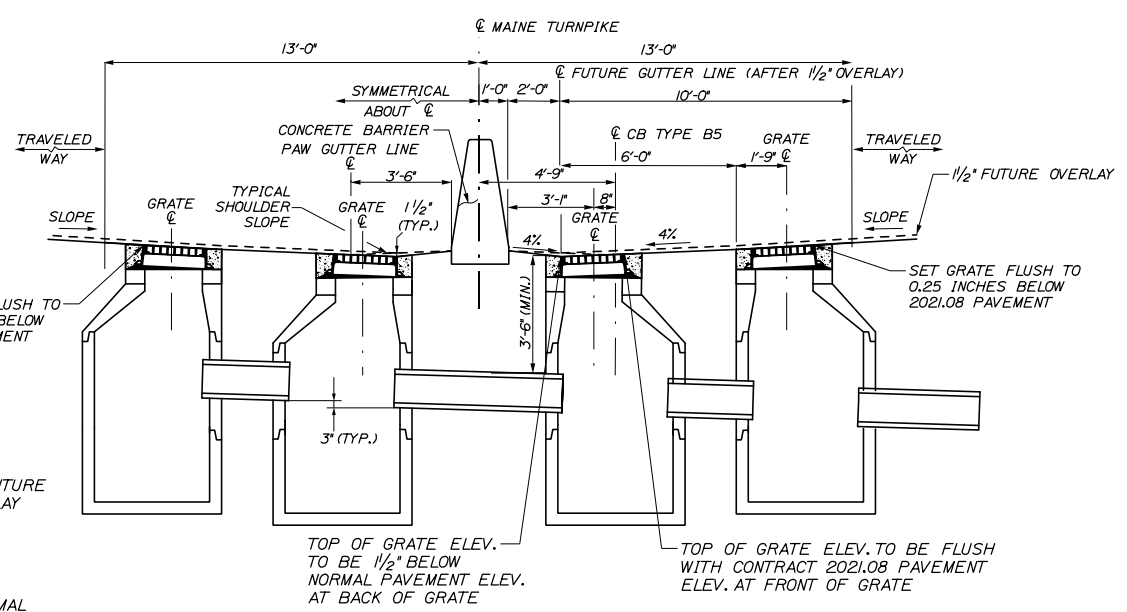
SHEET NUMBER: DD-01

65 OF 376

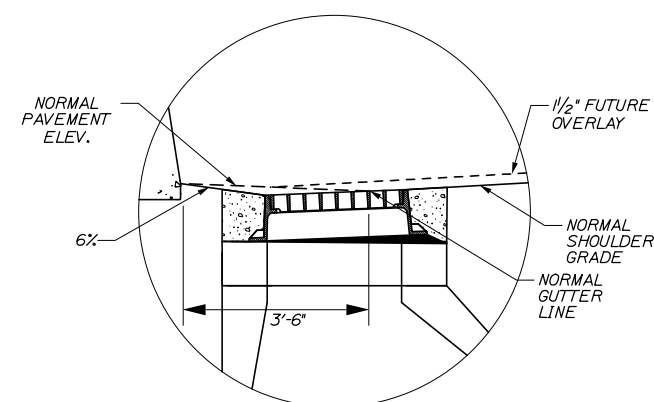
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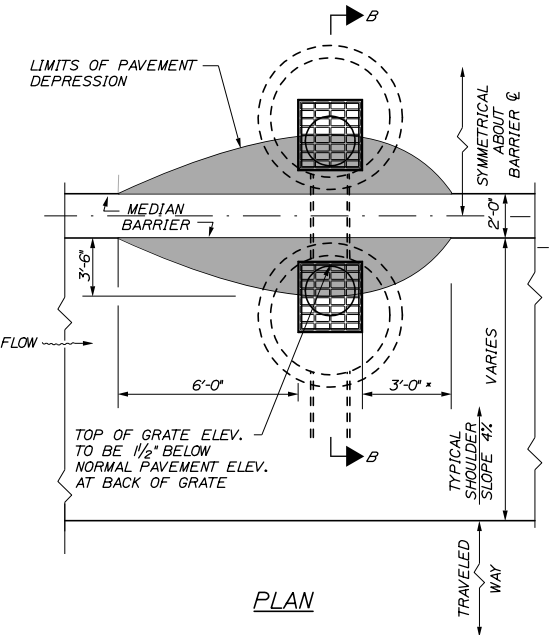
ELEVATION
N.T.S.



**PLACEMENT OF DRAINAGE STRUCTURES
ALONG BARRIER AT LOW POINT**
N.T.S.

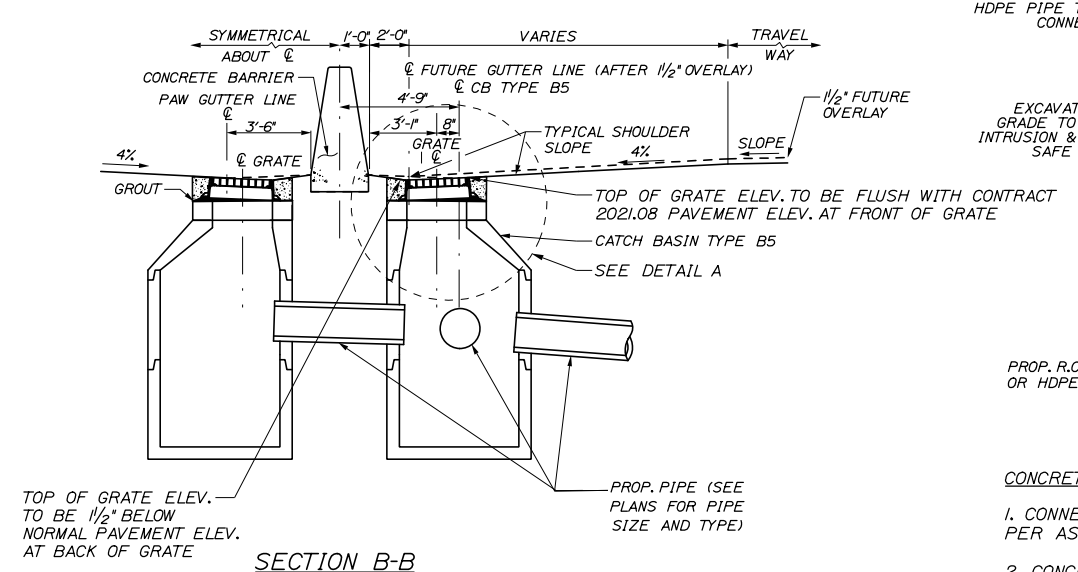


DETAIL A

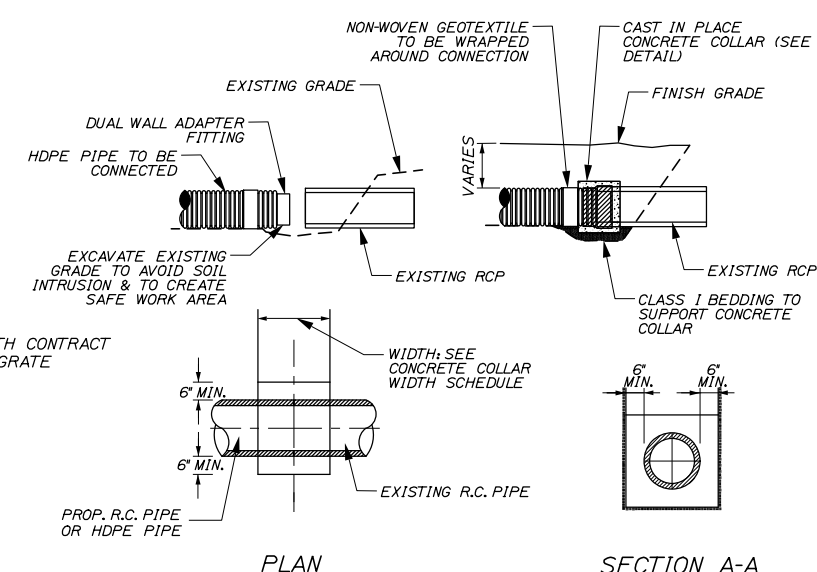


PLAN

**PLACEMENT OF DRAINAGE STRUCTURES
ALONG BARRIER**
N.T.S.



SECTION B-B



PLAN

SECTION A-A

CONCRETE COLLAR NOTES:

1. CONNECTION AND PIPE TO BE BACKFILLED PER ASTM D2321 (CRUSHED STONE)
2. CONCRETE SHALL BE CLASS A FIBER REINFORCED.
3. SEE CONCRETE COLLAR WIDTH SCHEDULE FOR DIMENSIONS.

CONCRETE COLLAR DETAIL
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
54	60

Filename: PAW2_DR_DET_02.dgn

Scale: NONE				
Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.				
No.	Revision	By	Date	

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**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

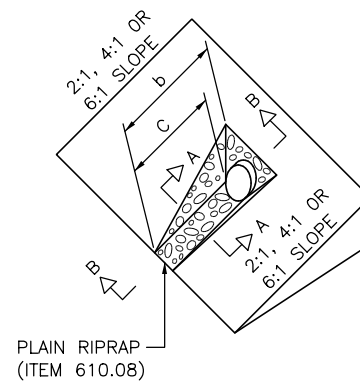
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
DRAINAGE DETAILS (2 OF 2)

SHEET NUMBER: DD-02
CONTRACT: 2021.08
66 OF 376

Date: 9/8/2021

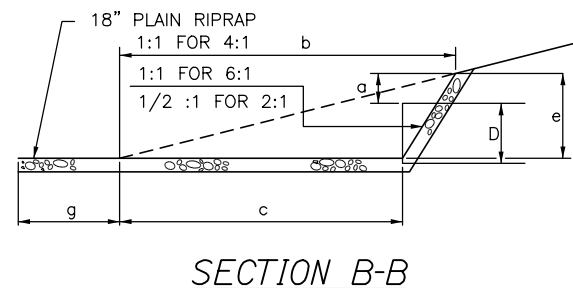
DIMENSIONS FOR SLOPE OF 2:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
21"	1.00	5.50	4.13	2.75	8.25	2.88	1.50	2.58
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33
36"	1.00	8.00	6.00	4.00	12.00	6.00	1.50	5.75
42"	1.00	9.00	6.75	4.50	13.50	7.25	1.50	7.37
48"	1.00	10.00	7.50	5.00	15.00	8.50	1.50	9.18
54"	1.00	11.00	8.25	5.50	16.50	9.75	1.50	11.19
60"	1.00	12.00	9.00	6.00	18.00	11.00	1.50	13.40
66"	1.00	13.00	9.75	6.50	19.50	12.25	1.50	15.81
72"	1.00	14.00	10.50	7.00	21.00	13.50	1.50	18.41
84"	1.00	16.00	12.00	8.00	24.00	16.00	1.50	24.22



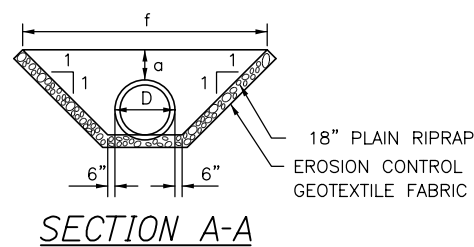
DIMENSIONS FOR SLOPE OF 4:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
21"	1.00	11.00	8.25	2.75	8.25	0.00	1.50	4.10
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58
36"	1.00	16.00	12.00	4.00	12.00	0.00	1.50	8.56
42"	1.00	18.00	13.50	4.50	13.50	0.50	1.50	10.92
48"	1.00	20.00	15.00	5.00	15.00	1.00	1.50	13.57
54"	1.00	22.00	16.50	5.50	16.50	1.50	1.50	16.50
60"	1.00	24.00	18.00	6.00	18.00	2.00	1.50	19.72
66"	1.00	26.00	19.50	6.50	19.50	2.50	1.50	23.22
72"	1.00	28.00	21.00	7.00	21.00	3.00	1.50	27.01
84"	1.00	32.00	24.00	8.00	24.00	4.00	1.50	35.45



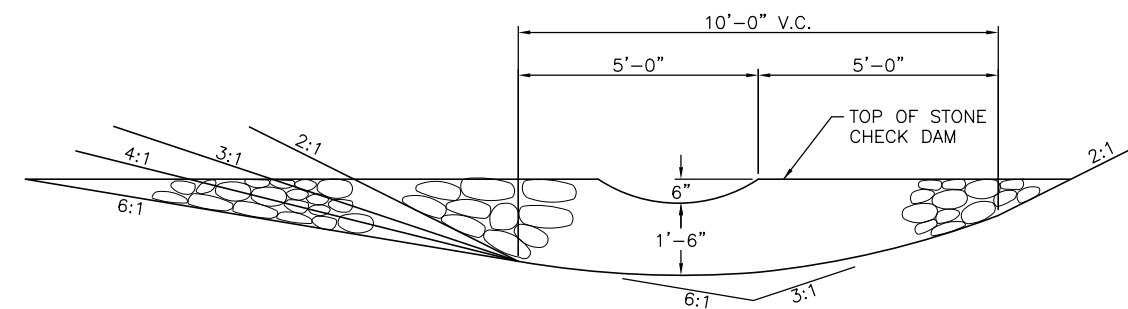
DIMENSIONS FOR SLOPE OF 6:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
21"	0.50	13.50	11.25	2.25	7.25	0.00	1.50	4.46
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71
36"	0.50	21.00	17.50	3.50	11.00	0.00	1.50	10.37
42"	0.50	24.00	20.00	4.00	12.50	0.00	1.50	13.42
48"	0.50	27.00	22.50	4.50	14.00	0.00	1.50	16.87
54"	0.50	30.00	25.00	5.00	15.50	0.00	1.50	20.70
60"	0.50	33.00	27.50	5.50	17.00	0.00	1.50	24.93
66"	0.50	36.00	30.00	6.00	18.50	0.00	1.50	29.55
72"	0.50	39.00	32.50	6.50	20.00	0.00	1.50	34.56
84"	0.50	45.00	37.50	7.50	23.00	0.00	1.50	45.76

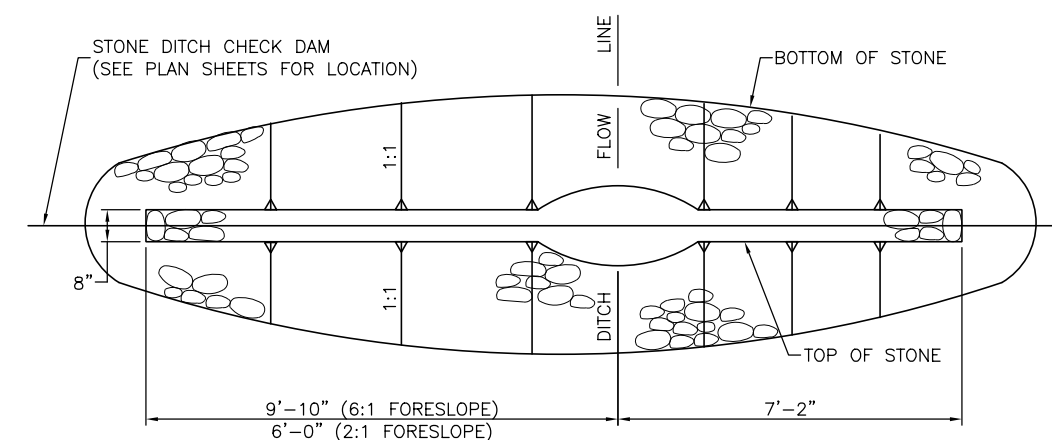


ROADWAY CULVERT END SLOPE TREATMENT

- NOTES:**
- THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
 - STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



SECTION



PLAN

STONE CHECK DAM
1" = 2'-0"

FORESLOPE	BACKSLOPE	QUANTITY C.Y. STONE
6:1	3:1	2.5
4:1	3:1	2.5
3:1	3:1	2.0
2:1	3:1	2.0

- NOTES:**
- STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, STONE DITCH PROTECTION.
 - TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.181.

Filename: PAW2_Erosion_Control_Details.dgn

Scale: **AS NOTED**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	BPP	09\21	Checked	PEK	09\21
Drawn	BPP	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
EROSION CONTROL DETAILS (1 OF 2)

SHEET NUMBER: ED-01

CONTRACT: 2021.08

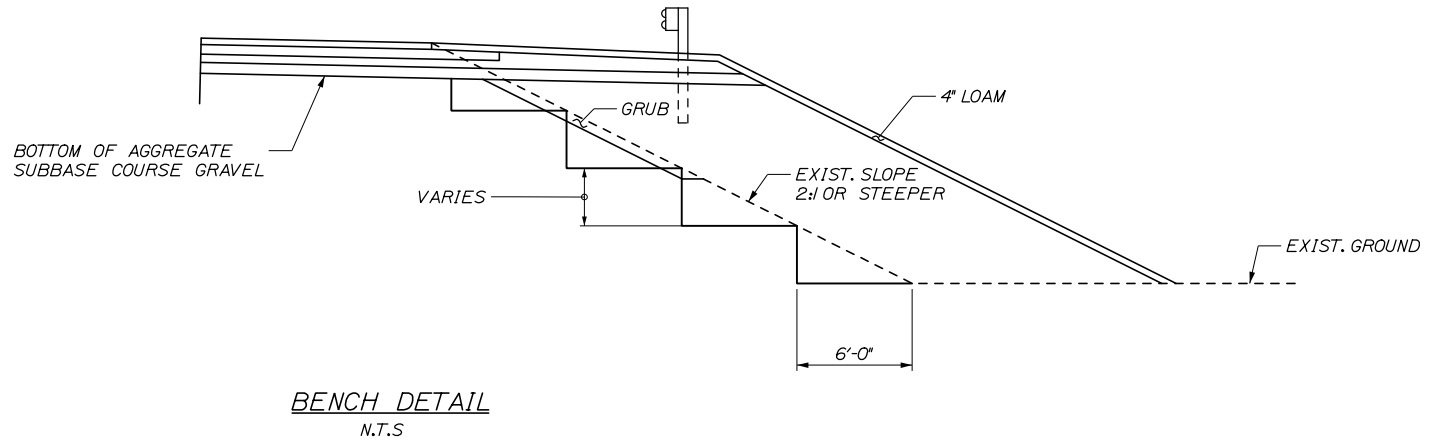
9 OF 376

Date: 9/8/2021

Filename: PAW2_Erosion Control Details 2.dgn

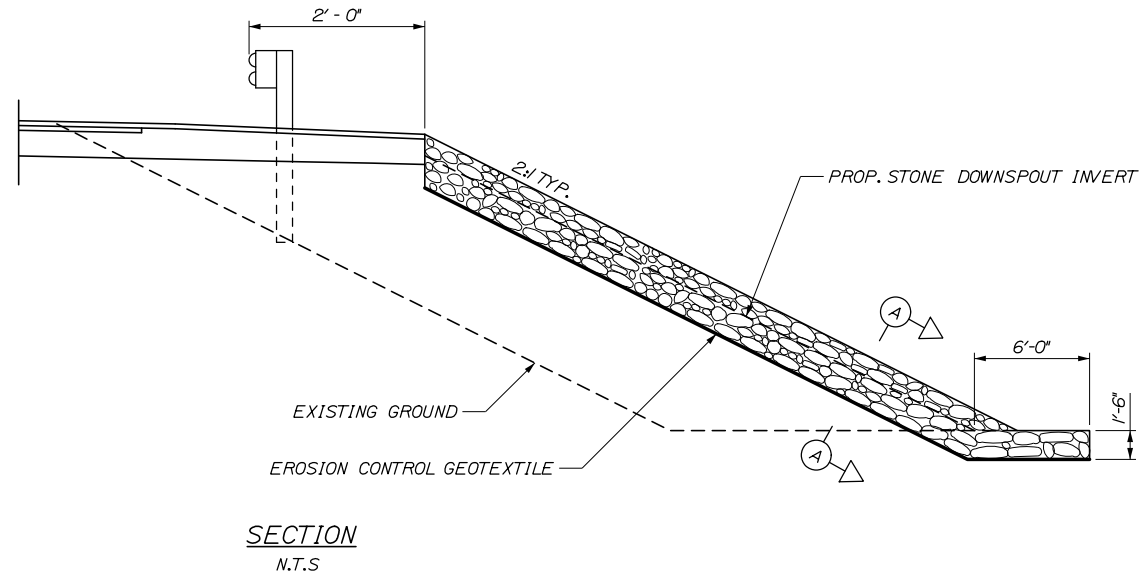
NOTES:

1. GRUBBING WILL BE PAID FOR UNDER ITEM 203.20 COMMON EXCAVATION. SEE CROSS SECTIONS FOR ACTUAL LIMITS.
2. EXCAVATION FOR BENCHING TO RECEIVE EMBANKMENTS IS INCIDENTAL TO ITEM 203.20 COMMON EXCAVATION.
3. BENCHING IS REQUIRED WHERE FILL IS TO BE PLACED ON EXISTING EMBANKMENTS WITH SLOPES 2:1 OR STEEPER.



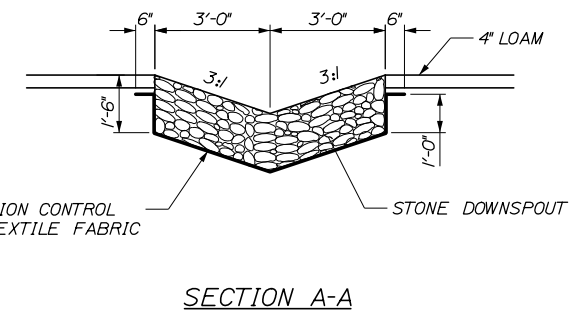
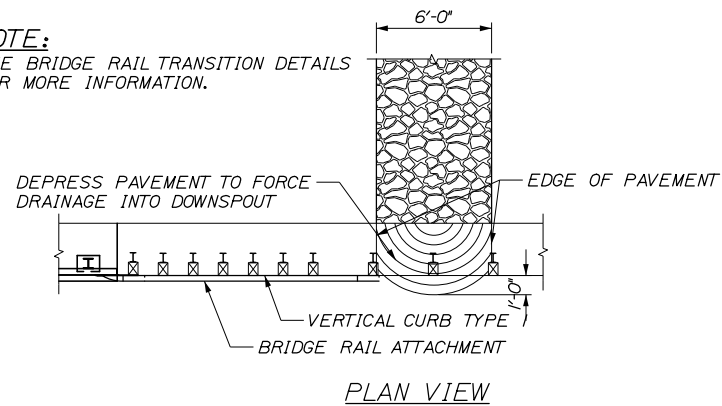
NOTE:

STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MDT SPECIFICATION 703.29, AND WILL BE PAID FOR UNDER ITEM 610.08, PLAIN RIPRAP.



NOTE:

SEE BRIDGE RAIL TRANSITION DETAILS FOR MORE INFORMATION.



1 LF of Downspout = .33 CY of Plain Riprap
 1 LF of Downspout = 1.04 SY of Erosion Control Geotextile Fabric

DOWNSPOUT DETAILS
 N.T.S.

Scale: AS NOTED

Designed by:



HNTB CORPORATION
 82 Running Hill Road, Suite 201
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 EROSION CONTROL DETAILS (2 OF 2)

No.	Revision	By	Date

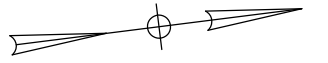
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	BPP	09\21	
	Checked	PEK	09\21
	By	Date	
	Drawn	BPP	09\21
	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

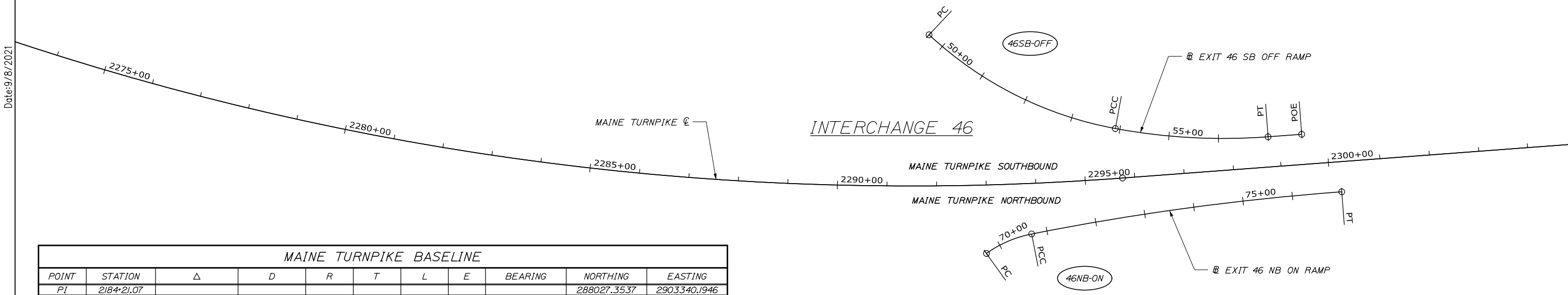
CONTRACT: 2021.08

SHEET NUMBER: ED-02

68 OF 376



Date: 9/8/2021



MAINE TURNPIKE BASELINE

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PI	2184+21.07								288027.3537	2903340.1946
EQNBK	2191+21.22								288584.6849	2903763.9706
EQNAHD	2191+22.03								288584.6849	2903763.9706
EQNBK	2206+02.18								289762.9163	2904659.8583
EQNAHD	2206+02.31								289762.9163	2904659.8583
EQNBK	2223+26.53								291135.4327	2905703.4738
EQNAHD	2223+26.63								291135.4327	2905703.4738
EQNBK	2250+12.91								293273.7705	2907329.3942
EQNAHD	2250+12.89								293273.7705	2907329.3942
PC	2261+36.86								294168.4775	2908009.6995
PI	2279+09.64	34°23'05.93" LT.	1°00'00.00"	5729.58	1772.78	3438.50	267.99	N 37°14'53.31" E	295579.6475	2909082.7058
PT	2295+75.36								297350.2129	2909171.2575
EQNBK	2297+13.91								297488.5873	2909178.1781
EQNAHD	2297+17.98								297488.5873	2909178.1781
EQNBK	2302+46.21								298016.1579	2909204.5636
EQNAHD	2302+47.46								298016.1579	2909204.5636
PC	2307+16.15								298484.2620	2909227.9750
PI	2311+20.00	8°03'49.02" LT.	1°00'00.00"	5729.58	403.85	806.36	14.21	N 2°51'47.38" E	298887.6056	2909248.1475
PT	2315+22.51								299289.7910	2909211.5425
EQNBK	2316+25.00								299391.8581	2909202.2529
EQNAHD	2316+26.84								299391.8581	2909202.2529
PI	2329+49.44							N 5°12'01.64" W	300709.0185	2909082.3713
EQNBK	2337+67.25								301523.4749	2909008.4368
EQNAHD	2337+70.89								301523.4749	2909008.4368
PC	2340+55.35								301806.7708	2908982.7199
PI	2352+36.92	23°27'23.34" RT.	1°00'00.00"	5729.58	1189.48	2345.65	122.17	N 5°11'13.07" W	302991.3844	2908875.1833
EQNBK	2350+52.61								302802.7656	2908979.2315
EQNAHD	2350+44.69								302802.7656	2908979.2315
EQNBK	2362+54.83								303989.1187	2909206.3201
EQNAHD	2362+55.31								303989.1187	2909206.3201
PT	2363+93.56								304120.9098	2909248.0717
EQNBK	2376+25.00								305290.2760	2909634.1125
EQNAHD	2376+31.49								305290.2760	2909634.1125
PI	2382+64.24							N 18°16'10.27" E	305891.1297	2909832.4713
EQNBK	2397+05.19								307259.6088	2910283.6970
EQNAHD	2397+12.81								307259.6088	2910283.6970
EQNBK	2413+10.97								308777.3902	2910784.1519
EQNAHD	2413+11.74								308777.3902	2910784.1519
EQNBK	2434+75.00								310831.8501	2911461.5646
EQNAHD	2434+69.74								310831.8501	2911461.5646
PC	2470+69.40								314250.4663	2912588.7776

STATION EQUATIONS

S.E. 46 NB-ON STA. 77+00.00 \bar{R} = STA. 2300+18.30 MAINE TURNPIKE \bar{C} , 61.00' RT.
 S.E. 46 SB-OFF STA. 57+00.00 \bar{R} = STA. 2298+78.17 MAINE TURNPIKE \bar{C} , 61.00' LT.

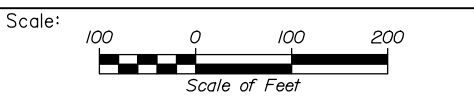
46 NB ON RAMP

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	69+68.41								297059.0114	2909288.2516
PI	70+19.18	24°22'52.26" RT.	24°22'52.26"	235.00	50.77	100.00	5.42		297103.6651	2909264.0965
PCC	70+68.41								297154.3080	2909260.5288
PI	73+84.59	6°53'34.31" RT.	1°05'28.85"	5250.00	316.18	631.59	9.51		297469.7036	2909238.3099
PT	77+00.00							N 2°51'47.38" E	297785.4862	2909254.1032

46 SB OFF RAMP

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	49+64.18								296999.2359	2908835.5885
PI	51+83.31	32°34'24.87" LT.	7°38'21.97"	750.00	219.13	426.39	31.36		297139.4693	2909003.9676
PCC	53+90.57								297348.2964	2909070.3615
PI	55+46.15	14°46'27.25" LT.	4°46'28.73"	1200.00	155.58	309.43	10.04		297496.5616	2909117.5006
PT	57+00.00							N 2°51'47.4" E	297651.9459	2909125.2719
POE	57+50.00								297701.8834	2909127.7695

Filename: PAW2_GP_Plan_01.dgn



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	CAV	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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 South Portland, ME 04106
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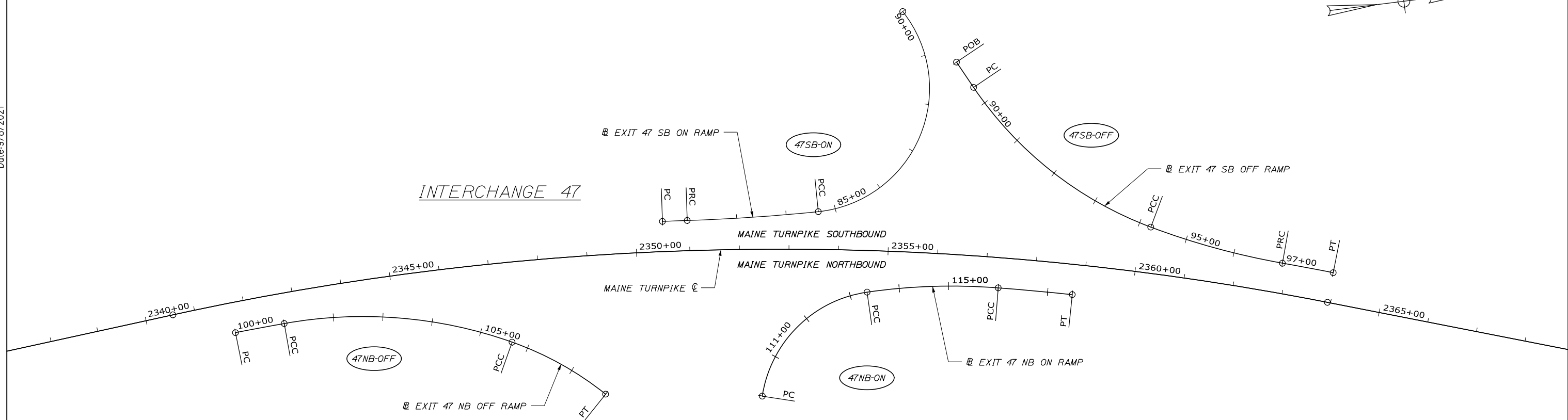
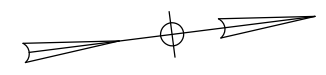
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
GEOMETRIC PLAN (1 OF 3)

SHEET NUMBER: GP-01
CONTRACT: 2021.08
9 OF 376

Date: 9/8/2021



STATION EQUATIONS

S.E. 47 NB-OFF STA. 101+00.00 Δ = STA. 2342+73.34 MAINE TURNPIKE Δ , 61.00' RT.
 S.E. 47 NB-ON STA. 116+00.00 Δ = STA. 2357+27.22 MAINE TURNPIKE Δ , 61.00' RT.
 S.E. 47 SB-ON STA. 82+00.00 Δ = STA. 2350+96.48 MAINE TURNPIKE Δ , 61.00' LT.
 S.E. 47 SB-OFF STA. 97+00.00 Δ = STA. 2362+41.10 MAINE TURNPIKE Δ , 61.00' LT.

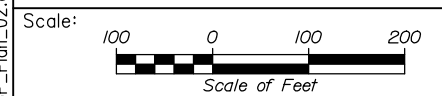
47 NB OFF RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	100+00.00								301927.5799	2909034.1889
PI	100+50.00	1°00'38.74" RT.	1°00'38.74"	5668.58	50.00	100.00	0.22		301977.4583	2909030.6854
PCC	101+00.00								302027.3908	2909028.0624
PI	103+38.64	2°42'04.20" RT.	6°21'58.31"	900.00	238.64	466.54	31.10		302265.7027	2909015.5436
PCC	105+66.54								302478.9083	2909122.7473
PI	106+76.00	1°07'03.17" RT.	8°48'53.05"	650.00	109.46	216.88	9.15		302576.7002	2909171.9189
PT	107+83.43							N 45°48'41.94" E	302652.9947	2909250.4062

47 NB ON RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	110+15.69								302966.1430	2909293.7012
PI	112+01.12	7°30'41.47" RT.	22°55'05.92"	250.00	185.42	319.08	61.26		303016.6925	2909115.3011
PCC	113+34.77								303202.0847	2909111.8975
PI	114+67.93	12°39'49.01" RT.	4°46'28.73"	1200.00	133.16	265.23	7.37		303335.2178	2909109.4532
PCC	116+00.00								303465.6482	2909136.2548
PI	116+75.00	1°30'58.11" RT.	1°00'38.74"	5668.58	75.00	150.00	0.50		303539.1177	2909151.3506
PT	117+50.00							N 13°07'37.59" E	303612.1621	2909168.3850

47 SB ON RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	81+50.00								302810.1916	290818.6403
PI	81+75.00	0°29'41.04" RT.	0°59'22.08"	5790.58	25.00	50.00	0.05		302835.1038	2908920.7361
PRC	82+00.00								302859.9969	290823.0470
PI	83+32.65	3°59'54.88" LT.	1°30'28.02"	3800.00	132.65	265.20	2.31		302992.0808	2908935.3083
PCC	84+65.20								303124.6981	2908938.3293
PT	95+00.25							N 1°18'17.9" E	302923.3480	2908548.2766

47 SB OFF RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
POB	89+00.00								303439.0290	2908673.5750
PC	89+61.54								303466.8532	2908728.4615
PI	92+00.49	35°20'40.46" LT.	7°38'21.97"	750.00	238.96	462.66	37.15		303574.8992	2908941.5952
PCC	94+24.20								303786.3272	2909052.9420
PI	95+62.49	10°32'05.82" LT.	3°49'10.99"	1500.00	138.29	275.80	6.36		303908.6879	2909117.3822
PRC	97+00.00								304040.7680	2909158.3643
PI	97+52.12	1°01'52.74" RT.	0°59'22.08"	5790.58	52.12	104.23	0.23		304090.5433	2909173.8087
PT	98+04.23							N 17°14'17.5" E	304140.0325	2909190.1465

Filename: PAW2_GP_Plan_02.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	CAV	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
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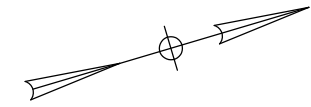
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

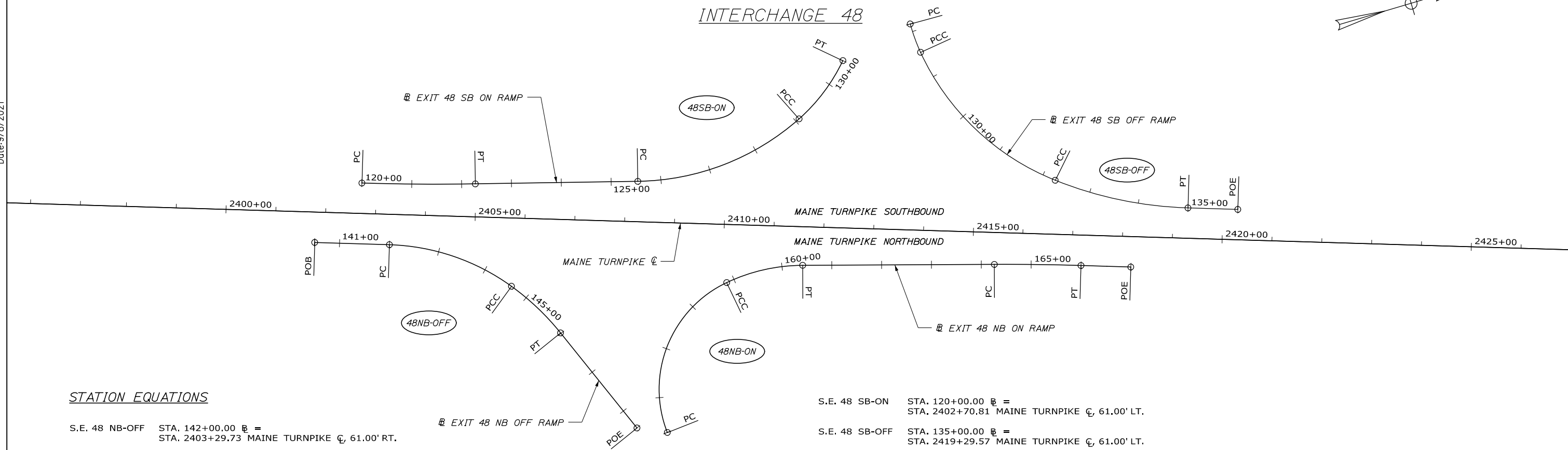
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 GEOMETRIC PLAN (2 OF 3)

SHEET NUMBER: GP-02
 CONTRACT: 2021.08
 70 OF 376

Date: 9/8/2021



INTERCHANGE 48



STATION EQUATIONS

S.E. 48 NB-OFF STA. 142+00.00 Δ = STA. 2403+29.73 MAINE TURNPIKE Δ , 61.00' RT.
 S.E. 48 NB-ON STA. 166+00.00 Δ = STA. 2417+18.50 MAINE TURNPIKE Δ , 61.00' RT.

S.E. 48 SB-ON STA. 120+00.00 Δ = STA. 2402+70.81 MAINE TURNPIKE Δ , 61.00' LT.
 S.E. 48 SB-OFF STA. 135+00.00 Δ = STA. 2419+29.57 MAINE TURNPIKE Δ , 61.00' LT.

48 NB OFF RAMP

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
POB	140+50.00							N 18°14'55.78" E	307683.9480	2910487.8439
PC	142+00.00								307826.4038	2910534.8156
PI	143+35.28	3°10'51.83" RT.	13°0'18.37"	440.00	135.28	262.49	20.33		307954.8820	2910577.1784
PCC	144+62.49								308037.3678	2910684.4041
PI	145+31.04	15°18'35.64" RT.	11°14'04.08"	510.00	68.55	136.28	4.59		308079.1627	2910738.7345
PT	145+98.77							N 67°44'23.25" E	308105.1290	2910802.1724
POE	148+43.52								308197.8458	2911028.6871

48 NB ON RAMP

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	155+28.04								308253.7200	2911054.6100
PI	157+49.36	86°04'50.50" RT.	24°10'31.60"	237.00	221.32	356.07	87.27		308234.7900	2910834.1000
PCC	158+84.11								308453.4900	2910800.1500
PI	159+64.19	25°04'56.10" RT.	15°54'55.80"	360.00	80.08	157.60	8.80		308532.6200	2910787.8600
PT	160+41.70							N 16°15'24.00" E	308609.5000	2910810.2800
PC	164+26.15								308978.5800	2910917.9000
PI	165+13.08	1°59'31.80" RT.	1°08'45.30"	5000.00	86.93	173.85	0.76		309062.0300	2910942.2400
PT	166+00.00							N 18°14'55.80" E	309144.5900	2910969.4600
PI	166+51.95								309193.9300	2910985.7300
POE	167+00.00								309239.5600	2911000.7700

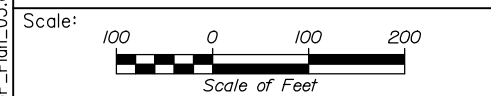
48 SB ON RAMP

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	120+00.00								307808.6491	2910400.5005
PI	121+13.84	2°36'30.46" LT.	1°08'45.30"	5000.00	113.84	227.63	1.30		307916.7590	2910436.1474
PT	122+27.63							N 15°38'25.33" E	308026.3793	2910466.8371
PC	125+53.51								308340.1950	2910554.6945
PI	127+38.54	40°36'53.51" LT.	1°27'32.96"	500.00	185.03	354.43	33.14		308518.3733	2910604.5781
PCC	129+07.94								308686.1016	2910526.4559
PI	129+82.57	23°06'37.69" LT.	15°41'50.91"	365.00	74.63	147.22	7.55		308753.7503	2910494.9475
PT	130+55.17							N 48°05'05.87" W	308803.6029	2910439.4151

48 SB OFF RAMP

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	127+84.11								308954.0394	2910407.2632
PI	128+14.45	9°15'09.58" LT.	15°16'43.95"	375.00	30.35	60.56	1.23		308953.4644	2910437.6029
PCC	128+44.66								308957.7753	2910467.6404
PI	130+45.31	43°29'36.45" LT.	1°23'26.92"	503.00	200.64	381.83	38.54		308986.2785	2910666.2489
PCC	132+26.49								309143.6529	2910790.7120
PI	133+64.67	20°05'26.47" LT.	7°20'44.21"	780.00	138.17	273.51	12.14		309252.0276	2910876.4226
PT	135+00.00							N 18°14'55.78" E	309383.2500	2910919.6903
POE	136+00.00								309478.2205	2910951.0047

Filename: PAW2_GP_Plan_03.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	CAV	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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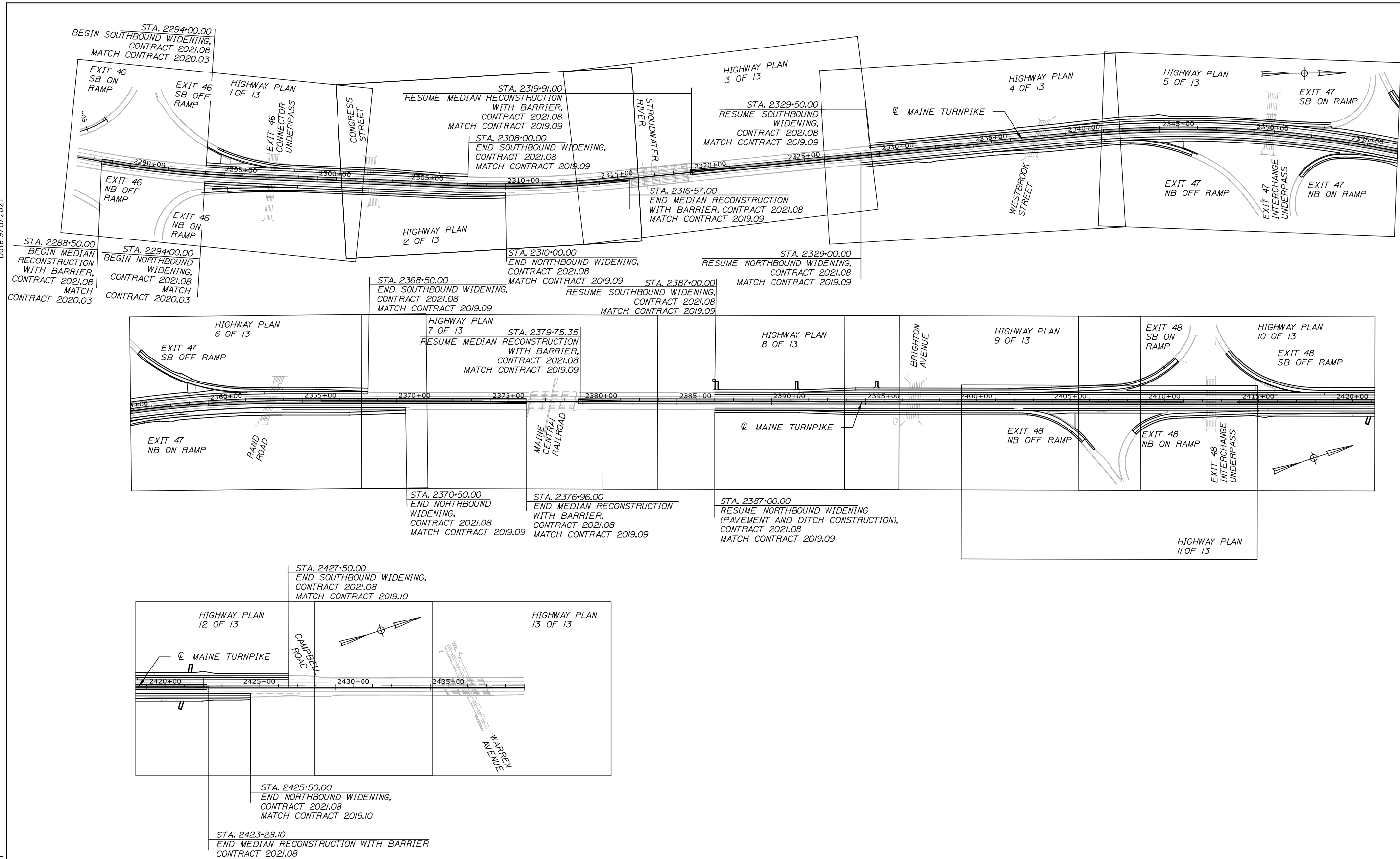
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

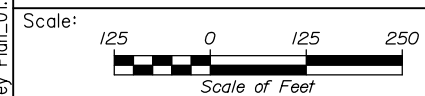
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 GEOMETRIC PLAN (3 OF 3)

SHEET NUMBER: GP-03
 CONTRACT: 2021.08
 71 OF 376

Date: 9/8/2021



Filename: PAW2_Key Plan_01.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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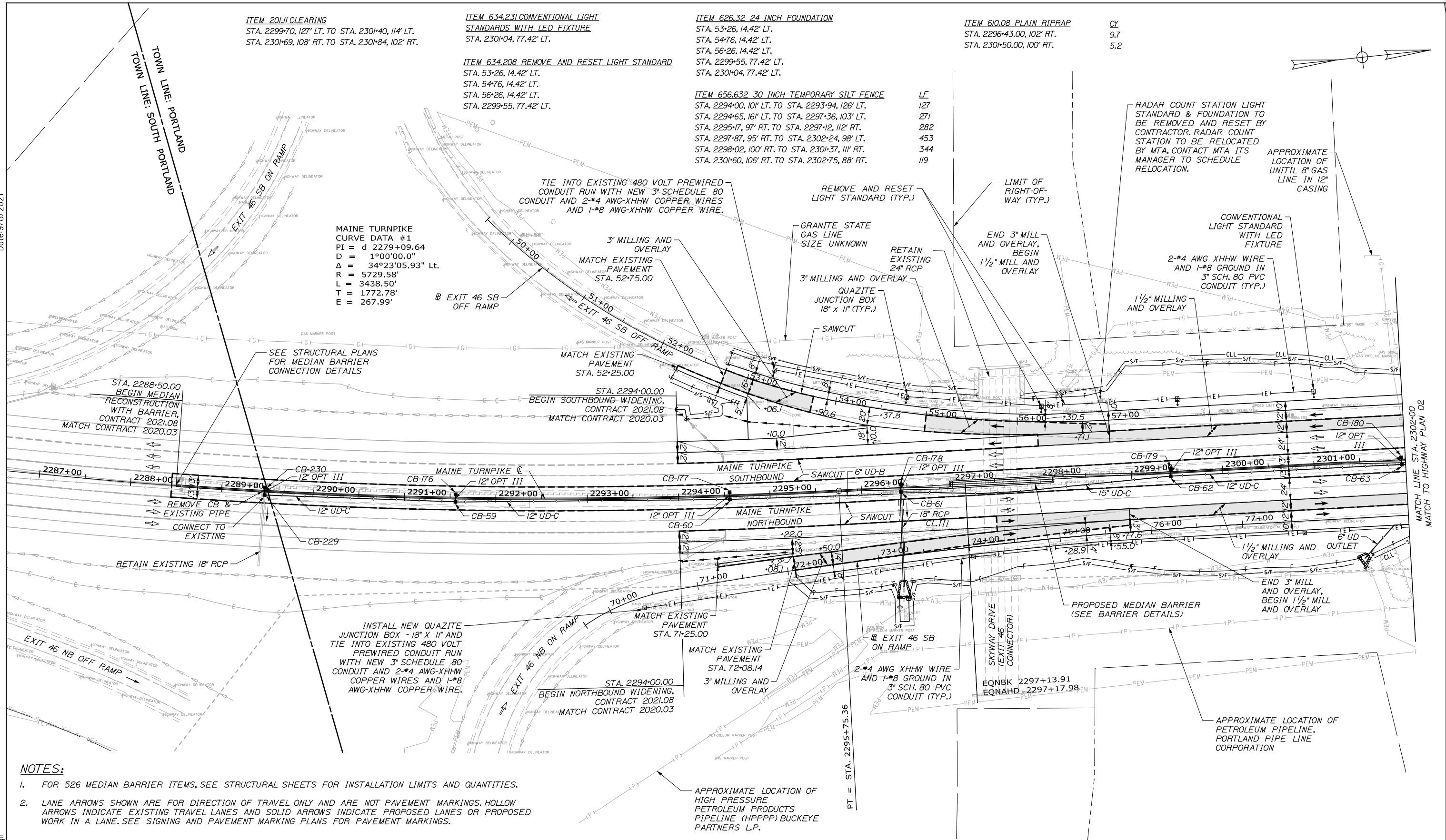
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
KEY PLAN

SHEET NUMBER: KP-01
CONTRACT: 2021.08
72 OF 376

Date: 9/8/2021



ITEM 201.11 CLEARING
 STA. 2299+70, 127' LT. TO STA. 2301+40, 114' LT.
 STA. 2301+69, 108' RT. TO STA. 2301+84, 102' RT.

ITEM 634.231 CONVENTIONAL LIGHT
 STANDARDS WITH LED FIXTURE
 STA. 2301+04, 77.42' LT.

ITEM 626.32 24 INCH FOUNDATION
 STA. 53+26, 14.42' LT.
 STA. 54+76, 14.42' LT.
 STA. 56+26, 14.42' LT.
 STA. 2299+55, 77.42' LT.
 STA. 2301+04, 77.42' LT.

ITEM 610.08 PLAIN RIPRAP
 STA. 2296+43.00, 102' RT.
 STA. 2301+50.00, 100' RT.

CY
 9.7
 5.2

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 53+26, 14.42' LT.
 STA. 54+76, 14.42' LT.
 STA. 56+26, 14.42' LT.
 STA. 2299+55, 77.42' LT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2294+00, 101' LT. TO STA. 2293+94, 126' LT.
 STA. 2294+65, 161' LT. TO STA. 2297+36, 103' LT.
 STA. 2295+17, 97' RT. TO STA. 2297+12, 112' RT.
 STA. 2297+87, 95' RT. TO STA. 2302+24, 98' LT.
 STA. 2298+02, 100' RT. TO STA. 2301+37, 111' RT.
 STA. 2301+60, 106' RT. TO STA. 2302+75, 88' RT.

LF
 127
 271
 282
 453
 344
 119

MAINE TURNPIKE
 CURVE DATA #1
 PI = d 2279+09.64
 D = 1°00'00.0"
 Δ = 34°23'05.93" Lt.
 R = 5729.58'
 L = 3438.50'
 T = 1772.78'
 E = 267.99'

SEE STRUCTURAL PLANS
 FOR MEDIAN BARRIER
 CONNECTION DETAILS

STA. 2288+50.00
 BEGIN MEDIAN
 RECONSTRUCTION
 WITH BARRIER,
 CONTRACT 2021.08
 MATCH CONTRACT 2020.03

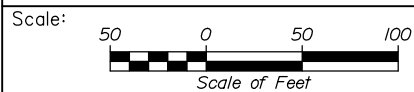
STA. 2294+00.00
 BEGIN SOUTHBOUND
 WIDENING,
 CONTRACT 2021.08
 MATCH CONTRACT 2020.03

STA. 2294+00.00
 BEGIN NORTHBOUND
 WIDENING,
 CONTRACT 2021.08
 MATCH CONTRACT 2020.03

INSTALL NEW QUAZITE
 JUNCTION BOX - 18" X 11" AND
 TIE INTO EXISTING 480 VOLT
 PREWIRED CONDUIT RUN
 WITH NEW 3" SCHEDULE 80
 CONDUIT AND 2-#4 AWG-XHHW
 COPPER WIRES AND 1-#8
 AWG-XHHW COPPER WIRE.

NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.



Designed by:



HNTB CORPORATION
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (1 OF 13)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: HP-01

73 OF 376

Filename: PAW2_HP_Plan_01.dgn

Date: 9/8/2021



ITEM 201.11 CLEARING
 STA. 2303+62, 107' LT. TO STA. 2308+00, 85' LT.
 STA. 2308+78 117' RT. TO STA. 2310+00, 103' RT.

ITEM 610.08 PLAIN RIPRAP CY
 STA. 2310+00.00, 85' RT. 5.2

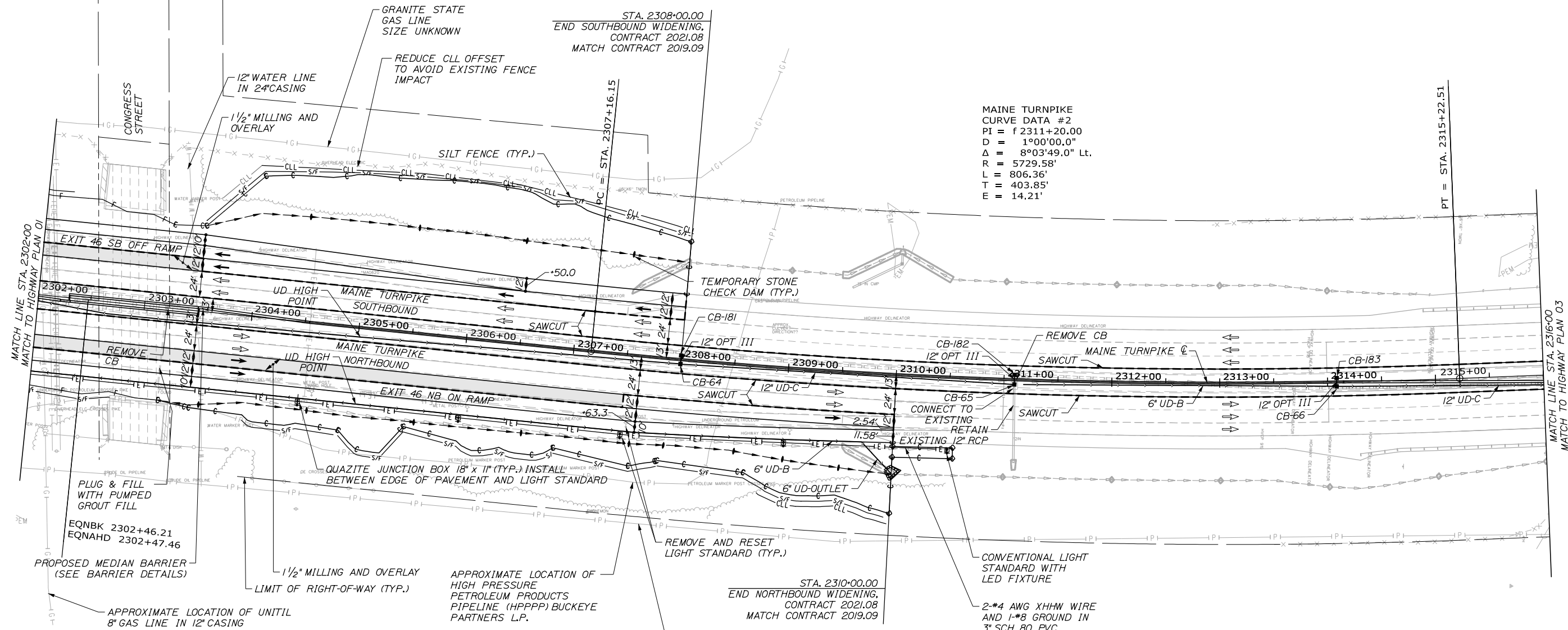
ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
 STA. 2304+00, 97' RT. TO STA. 2310+00, 133' RT. 639
 STA. 2305+50, 84' LT. TO STA. 2308+00, 115' LT. 473

ITEM 626.32 24 INCH FOUNDATION
 STA. 2304+50, 77.42' RT.
 STA. 2306+00, 77.42' RT.
 STA. 2307+50, 77.42' RT.
 STA. 2309+00, 72.42' RT.
 STA. 2310+50, 67.42' RT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2304+50, 77.42' RT.
 STA. 2306+00, 77.42' RT.
 STA. 2307+50, 77.42' RT.
 STA. 2309+00, 72.42' RT.

ITEM 634.231 CONVENTIONAL LIGHT STANDARDS WITH LED FIXTURE
 STA. 2310+50, 67.42' RT.

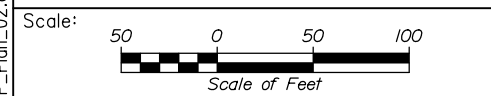
MAINE TURNPIKE
 CURVE DATA #2
 PI = f 2311+20.00
 D = 1°00'00.0"
 Δ = 8°03'49.0" Lt.
 R = 5729.58'
 L = 806.36'
 T = 403.85'
 E = 14.21'



NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.

Filename: PAW2_HP_Plan_02.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR MEMORIAL HIGHWAY

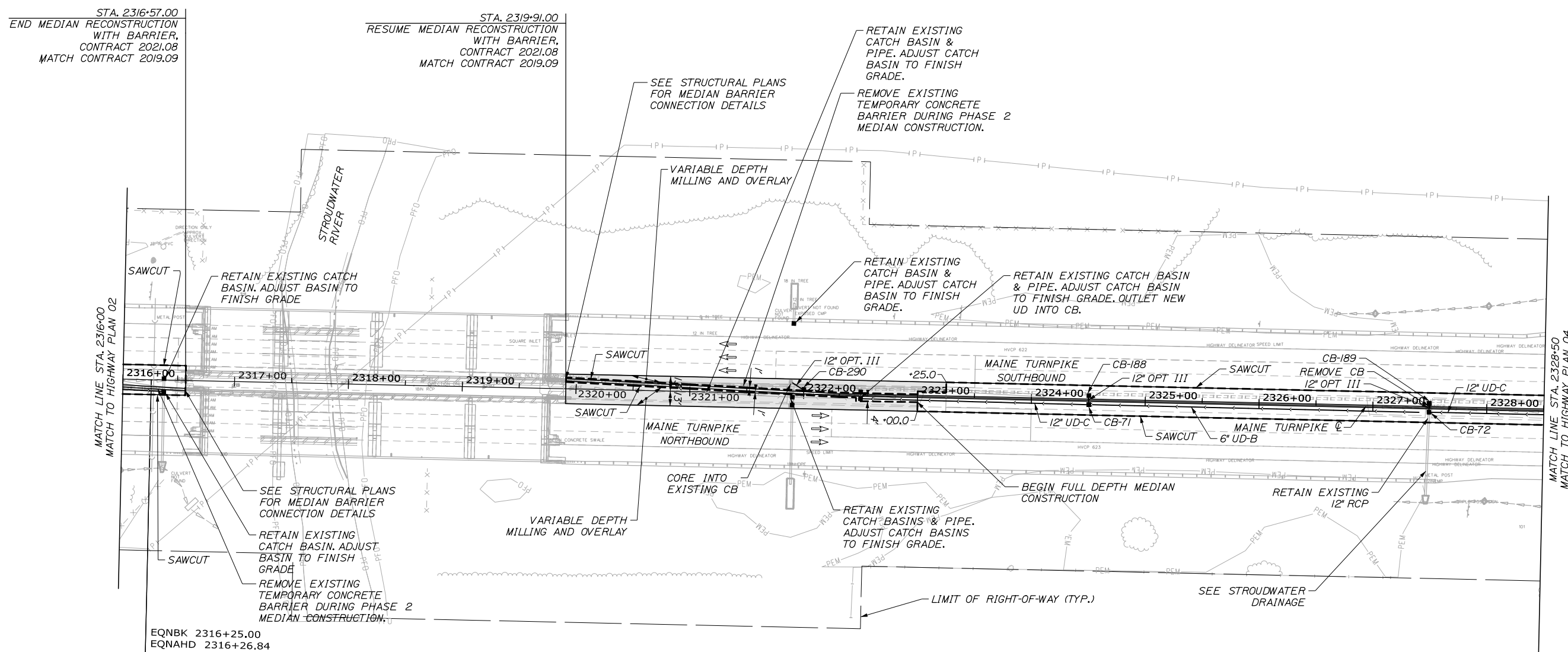
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (2 OF 13)

SHEET NUMBER: HP-02
 CONTRACT: 2021.08
 74 OF 376



Date: 9/8/2021



- NOTES:**
- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
 - LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.

EQNBK 2316+25.00
EQNAHD 2316+26.84

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
HIGHWAY PLAN (3 OF 13)

SHEET NUMBER: HP-03
CONTRACT: 2021.08
75 OF 376

Filename: PAW2_HP_Plan_03.dgn

ITEM 201.11 CLEARING
 STA. 2329+50, 132' LT. TO STA. 2338+02, 105' LT.
 STA. 2339+99, 106' LT. TO STA. 2341+11, 103' LT.
 STA. 2341+64, 128' LT. TO STA. 2349+52, 112' LT.
 STA. 2329+00, 119' RT. TO STA. 2336+59, 115' RT.
 STA. 2338+81, 127' RT. TO STA. 2340+77, 120' RT.

ITEM 606.1301 3" W BEAM GUARDRAIL - MIDWAY SPLICE LE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2337+54.99, 63.00' LT. TO STA. 2344+53.52, 73.32' LT. 700.00
 STA. 2332+96.38, 63.33' RT. TO STA. 2341+51.06, 73.00' RT. 850.00

ITEM 606.1307 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
FLARED TERMINAL
 STA. 2332+62.33, 66.98' RT.

ITEM 606.1351 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
TERMINAL END ANCHORED END
 STA. 2337+45.62, 63.00' LT.
 STA. 2341+51.06, 73.00' RT.

ITEM 610.18 STONE DITCH PROTECTION CY
 STA. 2340+50.00, 80' LT. TO STA. 2341+00.00, 80' LT. 33
 STA. 2340+00.00, 80' RT. TO STA. 2341+00.00, 80' RT. 50

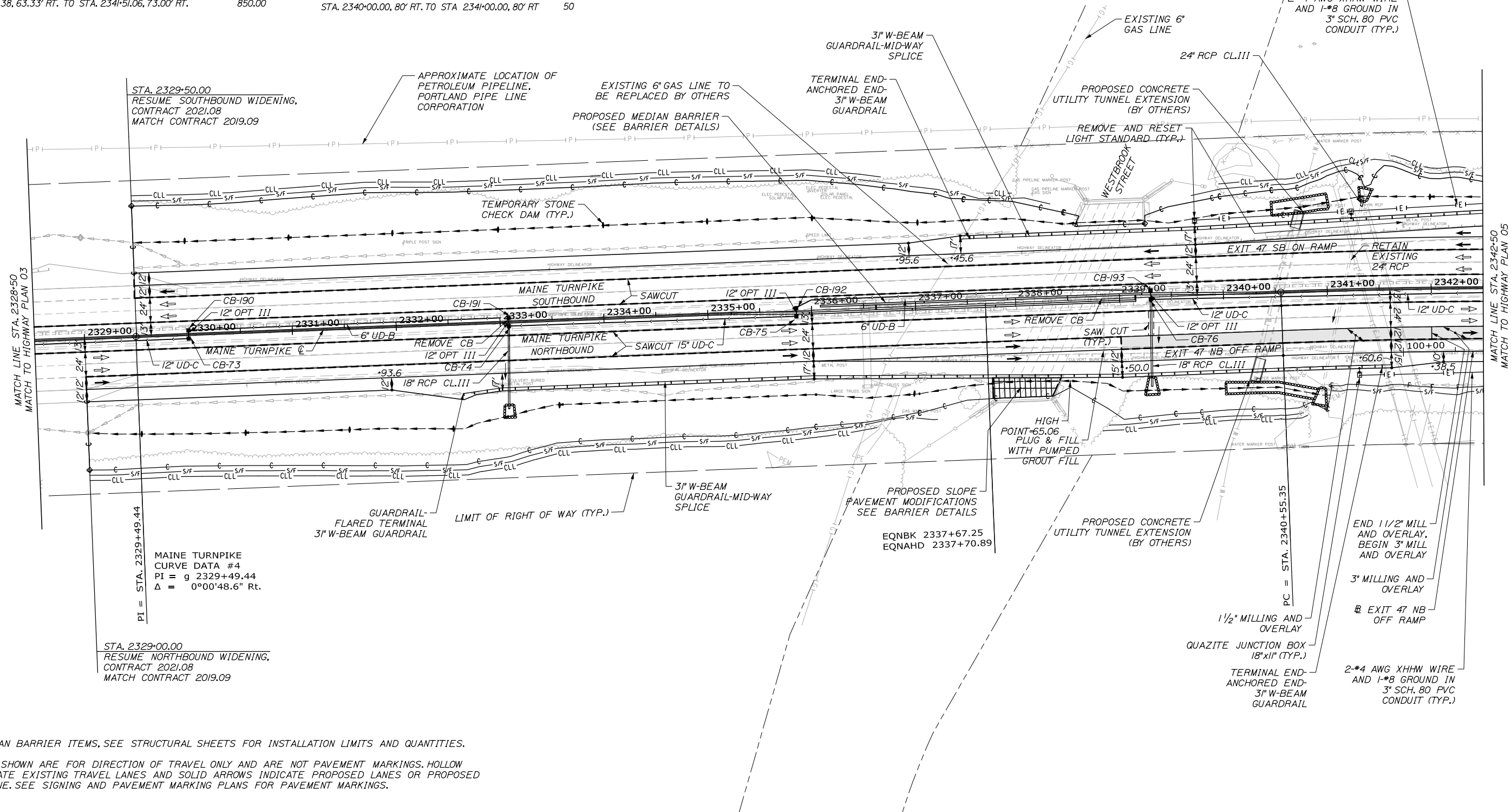
ITEM 610.08 PLAIN RIPRAP CY
 STA. 2333+08.00, 88' RT. 6.8
 STA. 2339+29.00, 80' RT. 11.3
 STA. 2340+80.00, 94' RT. 10.9
 STA. 2341+40.00, 85' LT. 8.6

ITEM 626.32 24 INCH FOUNDATION
 STA. 2339+75, 69.42' LT.
 STA. 2341+25, 72.70' LT.
 STA. 2341+29, 79.42' RT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2339+75, 69.42' LT.
 STA. 2341+25, 72.70' LT.
 STA. 2341+29, 79.42' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
 STA. 2329+00, 132' RT. TO STA. 2337+17, 110' RT. 821
 STA. 2329+50, 129' LT. TO STA. 2338+37, 93' LT. 887
 STA. 2338+75, 120' RT. TO STA. 2340+73, 118' RT. 190
 STA. 2339+73, 96' LT. TO STA. 2350+53, 101' LT. 1115
 STA. 2341+00, 95' RT. TO STA. 2346+58, 165' RT. 561

Date: 9/9/2021



STA. 2329+50.00
 RESUME SOUTHBOUND WIDENING,
 CONTRACT 2021.08
 MATCH CONTRACT 2019.09

MAINE TURNPIKE
 CURVE DATA #4
 PI = g 2329+49.44
 Δ = 0°00'48.6" Rt.

STA. 2329+00.00
 RESUME NORTHBOUND WIDENING,
 CONTRACT 2021.08
 MATCH CONTRACT 2019.09

NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.

Scale: 50 0 50 100
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (4 OF 13)

SHEET NUMBER: HP-04
 CONTRACT: 2021.08
 76 OF 376

ITEM 201.11 CLEARING
 STA. 2355+70 83' LT. TO STA. 2356+84, 89' LT.
 STA. 2347+34 81' RT. TO STA. 2349+63, 100' RT.
 STA. 2352+00 131' RT. TO STA. 2353+03, 74' RT.

ITEM 606.1301 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2354+61.71, 63.00' LT. TO STA. 2359+31.37, 66.53' RT. 475.00

ITEM 606.1307 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 FLARED TERMINAL
 STA. 2344+53.52, 73.32' LT.

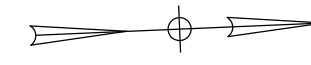
ITEM 606.1351 3" W-BEAM GUARDRAIL - MIDWAY
 SPLICE TERMINAL END ANCHORED END
 STA. 2354+52.44, 63.00' LT.

ITEM 610.08 PLAIN RIPRAP CY
 STA. 2350+00.00, 100' RT. 12.5
 STA. 2353+00.00, 94' RT. 5.6
 STA. 2353+75.00, 153' RT. 4.0
 STA. 2354+50.00, 139' RT. 4.0
 STA. 2355+00.00, 71' LT. 17.8

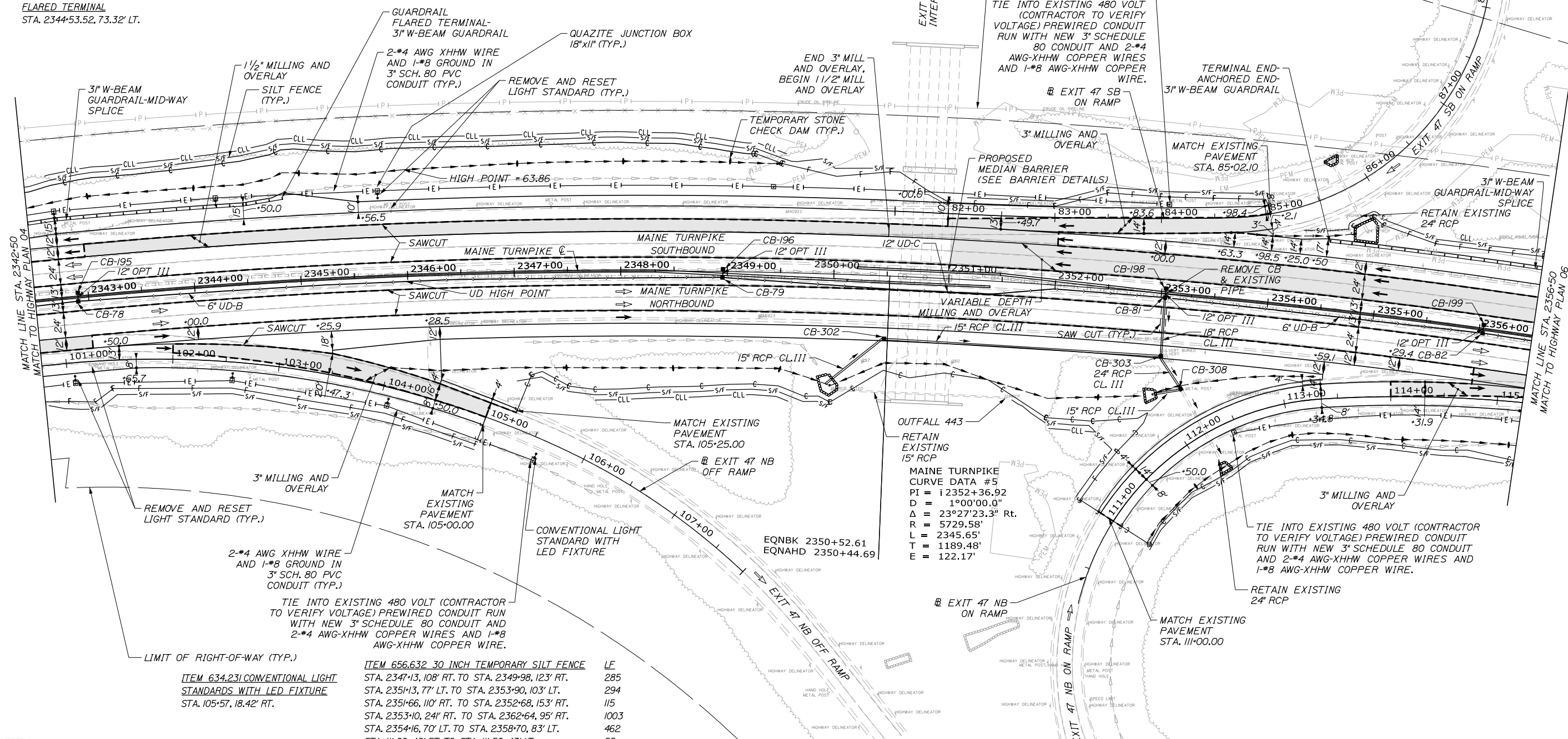
ITEM 626.32 24 INCH FOUNDATION
 STA. 2342+75, 79.42' LT.
 STA. 2344+25, 79.42' LT.
 STA. 2345+75, 77.42' LT.
 STA. 101+07, 16.42' RT.
 STA. 102+57, 14.42' RT.
 STA. 104+07, 14.42' RT.
 STA. 105+57, 18.42' RT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2342+75, 79.42' LT.
 STA. 2344+25, 79.42' LT.
 STA. 2345+75, 77.42' LT.
 STA. 101+07, 16.42' RT.
 STA. 102+57, 14.42' RT.
 STA. 104+07, 14.42' RT.

TOWN LINE: WESTBROOK
 TOWN LINE: PORTLAND



Date: 9/8/2021

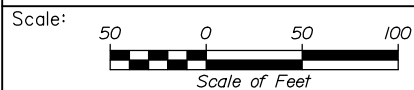


ITEM 634.231 CONVENTIONAL LIGHT STANDARDS WITH LED FIXTURE
 STA. 105+57, 18.42' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
 STA. 2347+13, 108' RT. TO STA. 2349+98, 123' RT. 285
 STA. 2351+13, 77' LT. TO STA. 2353+90, 103' LT. 294
 STA. 2351+66, 110' RT. TO STA. 2352+68, 153' RT. 115
 STA. 2353+10, 241' RT. TO STA. 2362+64, 95' RT. 1003
 STA. 2354+16, 70' LT. TO STA. 2358+70, 83' LT. 462
 STA. 111+00, 42' RT. TO STA. 111+50, 43' LT. 55

NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.



Designed by:



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

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (5 OF 13)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

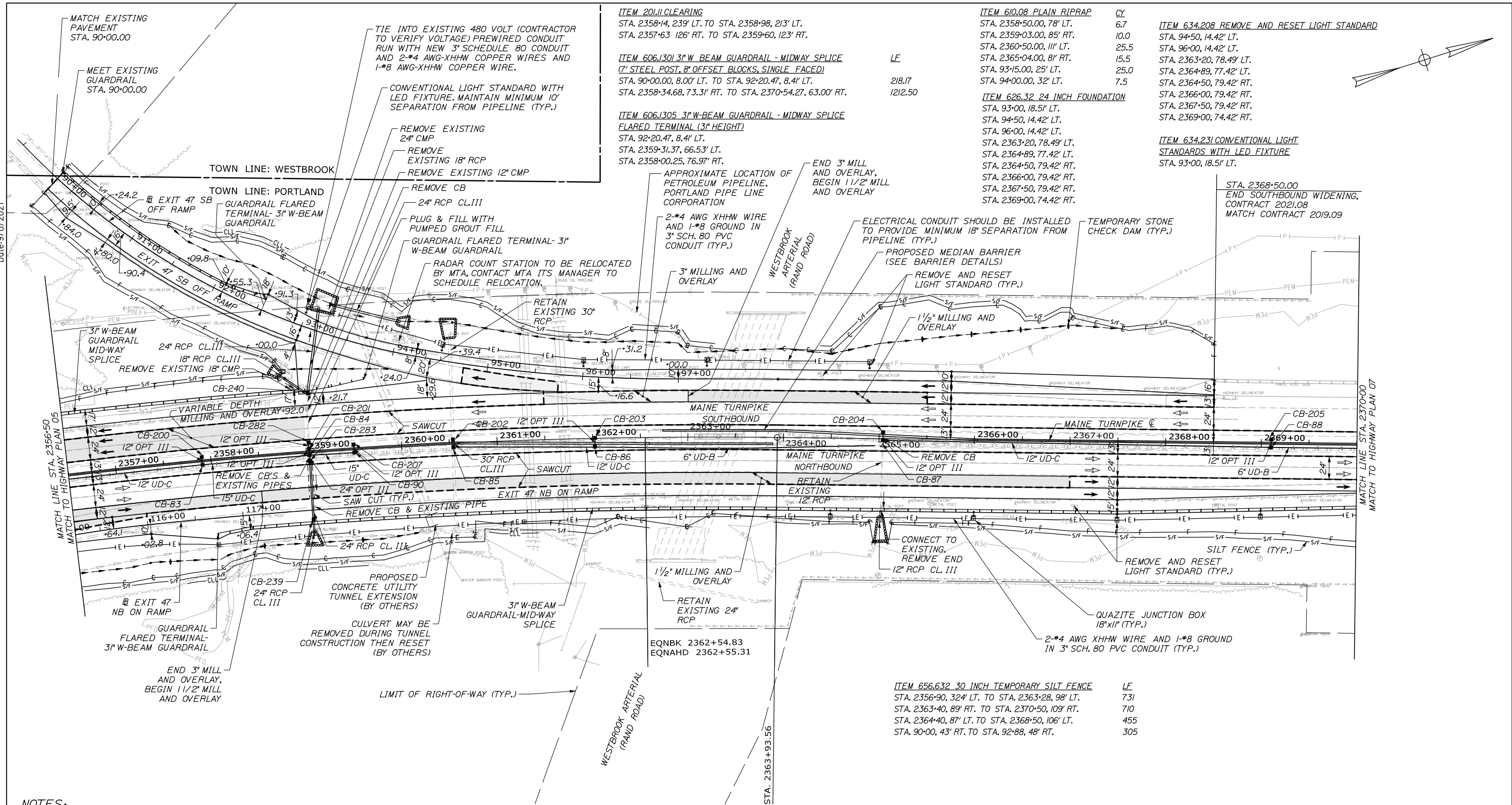
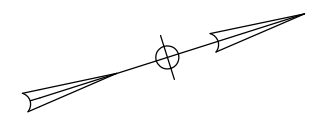
CONTRACT: 2021.08

SHEET NUMBER: HP-05

77 OF 376

Filename: PAW2_HP_Plan_05.dgn

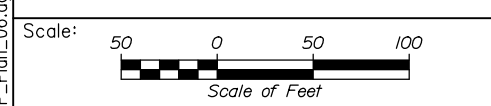
Date: 9/8/2021



ITEM 201.11 CLEARING STA. 2358+14, 239' LT. TO STA. 2358+98, 213' LT. STA. 2357+63, 126' RT. TO STA. 2359+60, 123' RT.		ITEM 610.08 PLAIN RIPRAP CY STA. 2358+50.00, 78' LT. 6.7 STA. 2359+03.00, 85' RT. 10.0 STA. 2360+50.00, 111' LT. 25.5 STA. 2365+04.00, 81' RT. 15.5 STA. 93+15.00, 25' LT. 25.0 STA. 94+00.00, 32' LT. 7.5	ITEM 634.208 REMOVE AND RESET LIGHT STANDARD STA. 94+50, 14.42' LT. STA. 96+00, 14.42' LT. STA. 2363+20, 78.49' LT. STA. 2364+89, 77.42' LT. STA. 2364+50, 79.42' RT. STA. 2366+00, 79.42' RT. STA. 2367+50, 79.42' RT. STA. 2369+00, 74.42' RT.
ITEM 606.1301 3\"/> 	LE 218.17 1212.50	ITEM 626.32 24 INCH FOUNDATION STA. 93+00, 18.51' LT. STA. 94+50, 14.42' LT. STA. 96+00, 14.42' LT. STA. 2363+20, 78.49' LT. STA. 2364+89, 77.42' LT. STA. 2364+50, 79.42' RT. STA. 2366+00, 79.42' RT. STA. 2367+50, 79.42' RT. STA. 2369+00, 74.42' RT.	ITEM 634.231 CONVENTIONAL LIGHT STANDARDS WITH LED FIXTURE STA. 93+00, 18.51' LT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE STA. 2356+90, 32' LT. TO STA. 2363+28, 98' LT. STA. 2363+40, 89' RT. TO STA. 2370+50, 109' RT. STA. 2364+40, 87' LT. TO STA. 2368+50, 106' LT. STA. 90+00, 43' RT. TO STA. 92+88, 48' RT.	LE 731 710 455 305
--	--------------------------------

- NOTES:**
- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
 - LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.



Designed by:

HNTB

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	By	Date
Designed	JS 09\21	Checked	PJS 09\21
Drawn	GW 09\21	In Charge of	TRC 09\21



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
HIGHWAY PLAN (6 OF 13)

CONTRACT: 2021.08

SHEET NUMBER: HP-06

78 OF 376

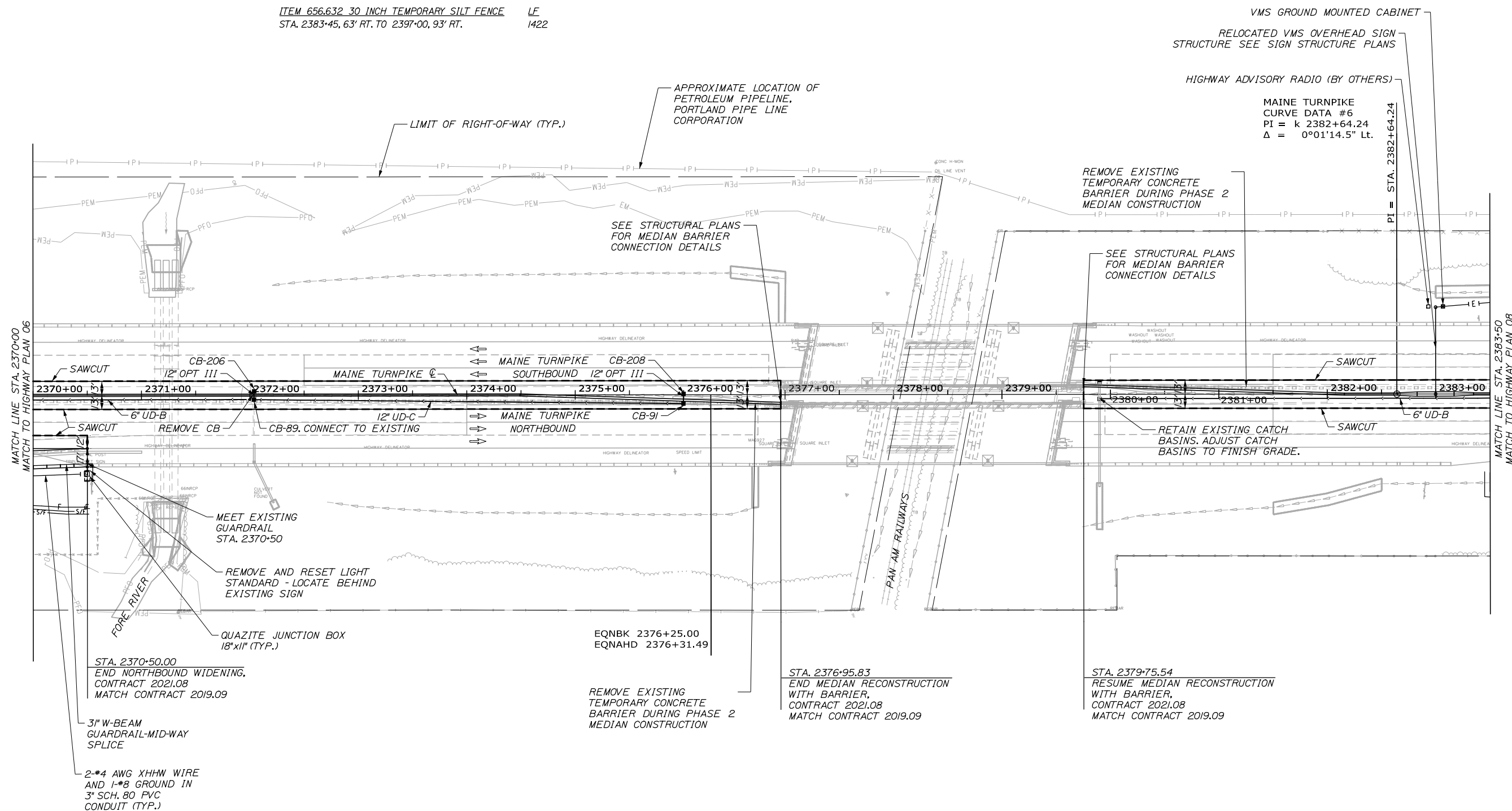
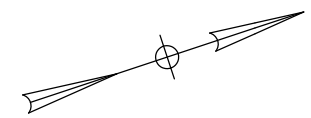
Filename: PAW2_HP_Plan_06.dgn

Date: 9/8/2021

ITEM 626.32 24 INCH FOUNDATION
STA. 2370+50, 69.42' RT.

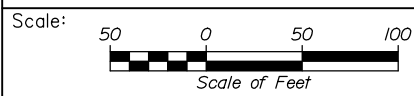
ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
STA. 2370+50, 69.42' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
STA. 2383+45, 63' RT. TO 2397+00, 93' RT. 1422



NOTES:

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Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
HIGHWAY PLAN (7 OF 13)

SHEET NUMBER: HP-07
CONTRACT: 2021.08
79 OF 376

Filename: PAW2_HP_Plan_07.dgn

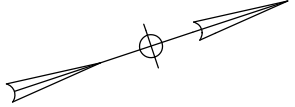
ITEM 201.11 CLEARING
STA. 2388+15, 110' LT. TO STA. 2391+98, 122' LT.

ITEM 626.32 24 INCH FOUNDATION
STA. 2391+50, 67.42' LT.
STA. 2392+90, 72.09' LT.
STA. 2394+30, 76.76' LT.
STA. 2395+70, 77.42' LT.

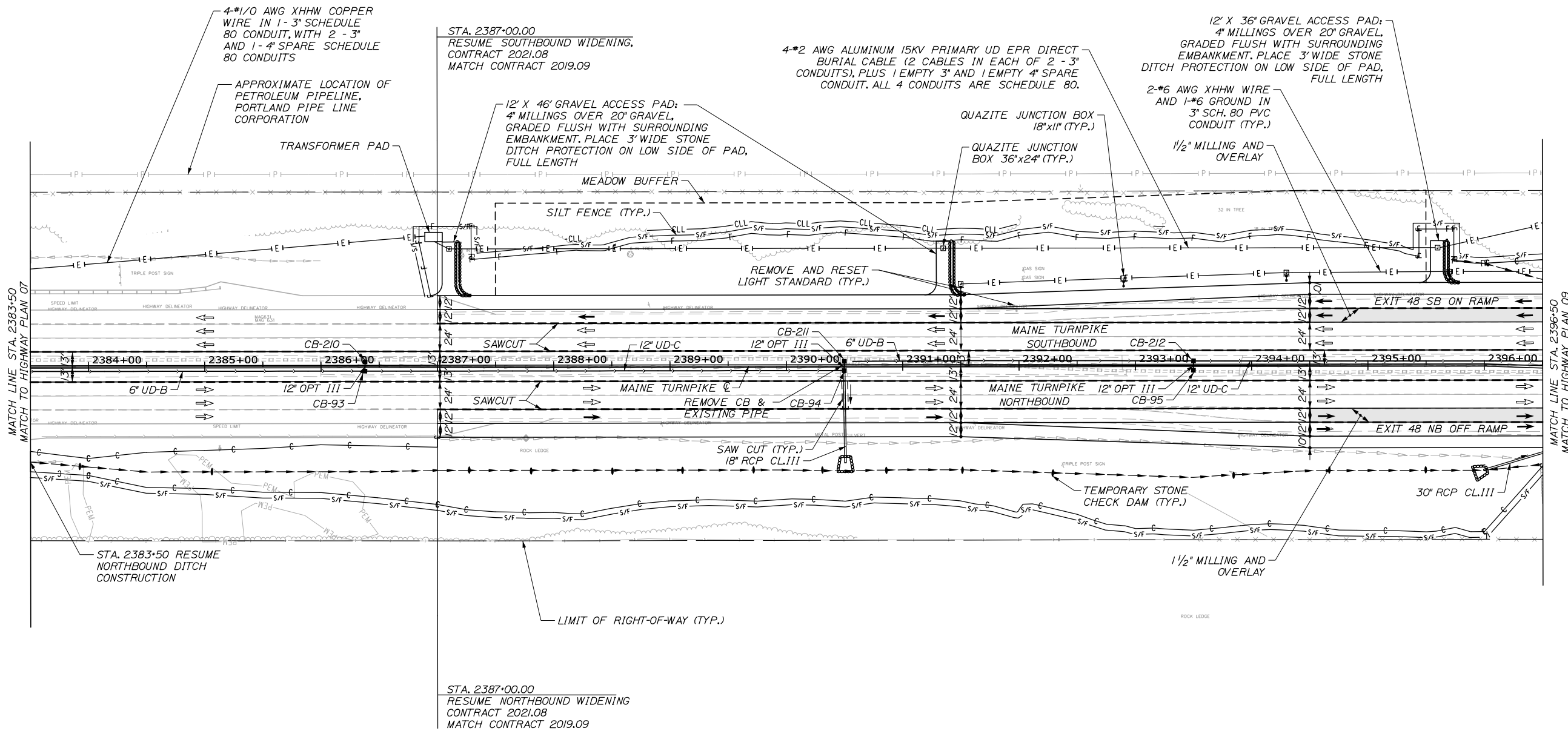
ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
STA. 2391+50, 67.42' LT.
STA. 2392+90, 72.09' LT.
STA. 2394+30, 76.76' LT.
STA. 2395+70, 77.42' LT.

ITEM 610.08 PLAIN RIPRAP CY
STA. 2390+50.00, 74' RT 7.2
STA. 2396+00.00, 86' RT 7.1

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
STA. 2386+90', 60 LT. TO STA. 2397+37', 90' LT. 1194

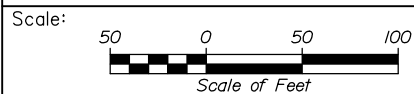


Date: 9/8/2021



NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
- STA. 2383+50.00 RESUME NORTHBOUND DITCH CONSTRUCTION.



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
HIGHWAY PLAN (8 OF 13)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: HP-08

80 OF 376

Filename: PAW2_HP_Plan_08.dgn

ITEM 201.11 CLEARING
 STA. 2400+76 111' LT. TO STA. 2402+13, 115' LT.
 STA. 2403+16 111' LT. TO STA. 2404+50, 112' LT.
 STA. 2405+61 123' LT. TO STA. 2410+96, 243' LT.

ITEM 201.23 REMOVING SINGLE TREE TOP ONLY
 STA. 2405+20.23, 112.89' LT.

ITEM 201.24 REMOVING STUMP
 STA. 2405+20.23, 112.89' LT.

ITEM 626.32 24 INCH FOUNDATION
 STA. 2397+18, 77.42' LT.
 STA. 2400+66, 77.42' RT.
 STA. 2402+16, 77.42' RT.
 STA. 142+36, 14.97' RT.
 STA. 143+86, 14.42' RT.
 STA. 145+36, 14.42' RT.

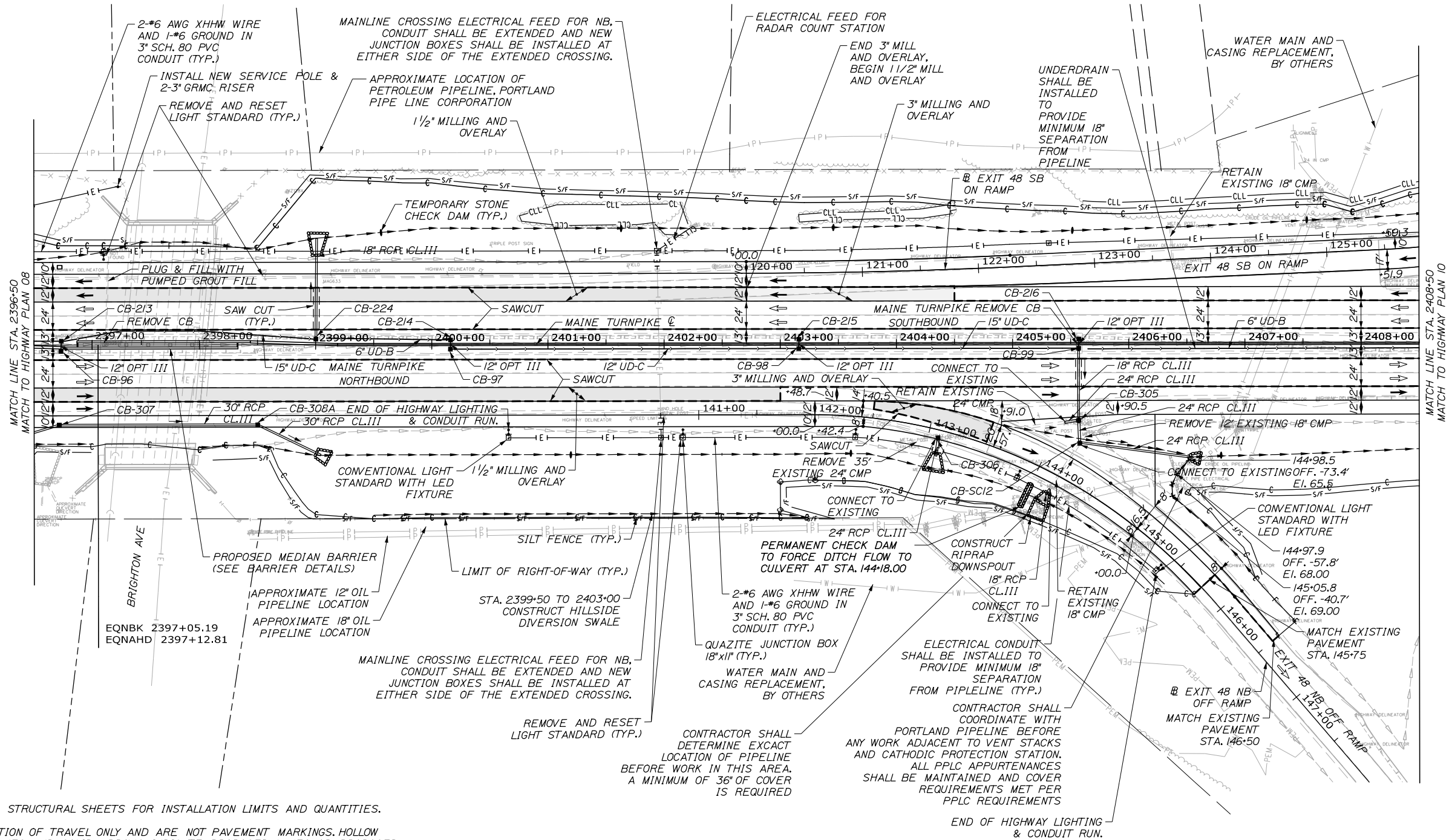
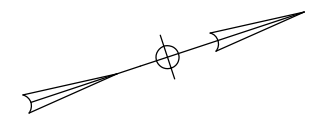
ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2397+18, 77.42' LT.
 STA. 2402+16, 77.42' RT.
 STA. 142+36, 14.97' RT.
 STA. 143+86, 14.42' RT.

ITEM 610.08 PLAIN RIPRAP CY
 STA. 2399+00.00, 86' LT. 14.5
 STA. 2399+00.00, 92' RT. 7.2
 STA. 2404+25.00, 97' RT. 4.7
 STA. 2405+25.00, 131' RT. 5.1
 STA. 2406+50.00, 96' RT. 5.3

ITEM 634.231 CONVENTIONAL LIGHT STANDARDS WITH LED FIXTURE
 STA. 2400+66, 77.42' RT.
 STA. 145+36, 14.42' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2398+10, 99' RT. TO STA. 2406+20, 220' RT.
 STA. 2398+47, 88' LT. TO STA. 2411+12, 257' LT.
 STA. 2407+15, 199' RT. TO STA. 2409+50, 100' RT.

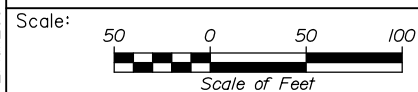
LF
 884
 1330
 392



NOTES:

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Filename: PAW2_HP_Plan_09.dgn



No.	Revision	By	Date

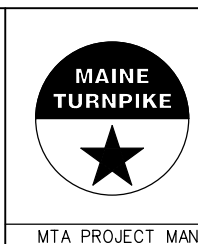
Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (9 OF 13)

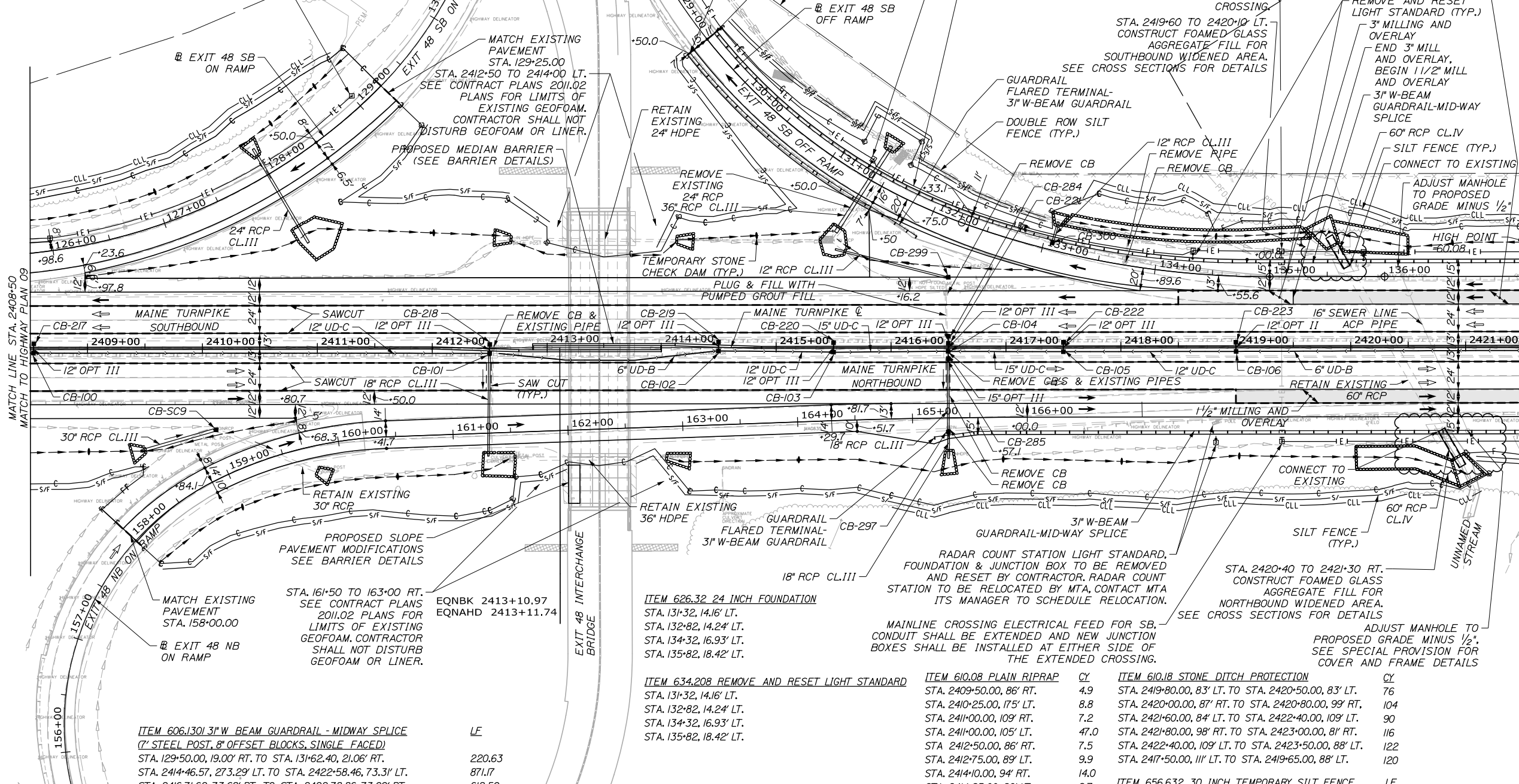
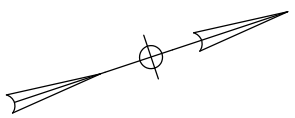
SHEET NUMBER: HP-09
 CONTRACT: 2021.08
 81 OF 376

Date: 9/9/2021

ITEM 2011.02 CLEARING
 STA. 2417+67, 129' LT. TO STA. 2426+12, 125' LT.
 STA. 2416+01, 139' RT. TO STA. 2421+14, 126' RT.

TIE INTO EXISTING 120 VOLT
 (CONTRACTOR TO VERIFY VOLTAGE)
 CONDUIT RUN WITH NEW 3" SCHEDULE
 80 CONDUIT AND 2-#6 AWG-XHHW
 COPPER WIRES AND 1-#6 AWG-XHHW
 COPPER WIRE.

MATCH LINE STA. 2408+50
 MATCH TO HIGHWAY PLAN 09



MATCH LINE STA. 2421+50
 MATCH TO HIGHWAY PLAN 12

NOTES:

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ITEM 606.1301 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 129+50.00, 19.00' RT. TO STA. 131+62.40, 21.06' RT.
 STA. 2414+46.57, 273.29' LT. TO STA. 2422+58.46, 73.31' LT.
 STA. 2416+71.62, 73.68' RT. TO STA. 2422+78.86, 73.00' RT.

LF

220.63
 871.17
 612.50

ITEM 626.32 24 INCH FOUNDATION
 STA. 131+32, 14.16' LT.
 STA. 132+82, 14.24' LT.
 STA. 134+32, 16.93' LT.
 STA. 135+82, 18.42' LT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 131+32, 14.16' LT.
 STA. 132+82, 14.24' LT.
 STA. 134+32, 16.93' LT.
 STA. 135+82, 18.42' LT.

ITEM 606.1305 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 FLARED TERMINAL
 STA. 131+62.40, 21.06' RT.
 STA. 2416+37.53, 78.10' RT.

ITEM 610.08 PLAIN RIPRAP
 STA. 2409+50.00, 86' RT.
 STA. 2410+25.00, 175' LT.
 STA. 2411+00.00, 109' RT.
 STA. 2411+00.00, 105' LT.
 STA. 2412+50.00, 86' RT.
 STA. 2412+75.00, 89' LT.
 STA. 2414+10.00, 94' RT.
 STA. 2414+25.00, 86' LT.
 STA. 2414+25.00, 94' RT.
 STA. 2415+50.00, 79' LT.
 STA. 2416+50.00, 89' RT.
 STA. 2418+10.00, 87' LT.
 STA. 2419+75.00, 86' RT.
 STA. 2421+75.00, 96' RT.

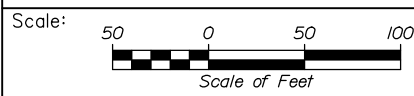
CY
 4.9
 8.8
 7.2
 47.0
 7.5
 9.9
 14.0
 9.7
 14.0
 16.4
 13.4
 5.0
 27.1
 8.7

ITEM 610.18 STONE DITCH PROTECTION
 STA. 2419+80.00, 83' LT. TO STA. 2420+50.00, 83' LT.
 STA. 2420+00.00, 87' RT. TO STA. 2420+80.00, 99' RT.
 STA. 2421+60.00, 84' LT. TO STA. 2422+40.00, 109' LT.
 STA. 2421+80.00, 98' RT. TO STA. 2423+00.00, 81' RT.
 STA. 2422+40.00, 109' LT. TO STA. 2423+50.00, 88' LT.
 STA. 2417+50.00, 111' LT. TO STA. 2419+65.00, 88' LT.

CY
 76
 104
 90
 116
 122
 120

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2409+65, 192' RT. TO STA. 2413+18, 106' RT.
 STA. 2411+97, 195' LT. TO STA. 2413+02, 110' LT.
 STA. 2413+78, 101' RT. TO STA. 2419+90, 131' RT.
 STA. 2413+96, 87' LT. TO STA. 2414+19, 258' LT.
 STA. 2419+90, 131' RT. TO STA. 2421+70, 103' RT.
 STA. 129+50, 25' LT. TO STA. 2421+50, 112' LT.

LF
 383
 265
 644
 304
 290
 640



Designed by:



HNTB CORPORATION
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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (10 OF 13)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS
Drawn	By GW	Date 09\21	In Charge of TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: HP-10

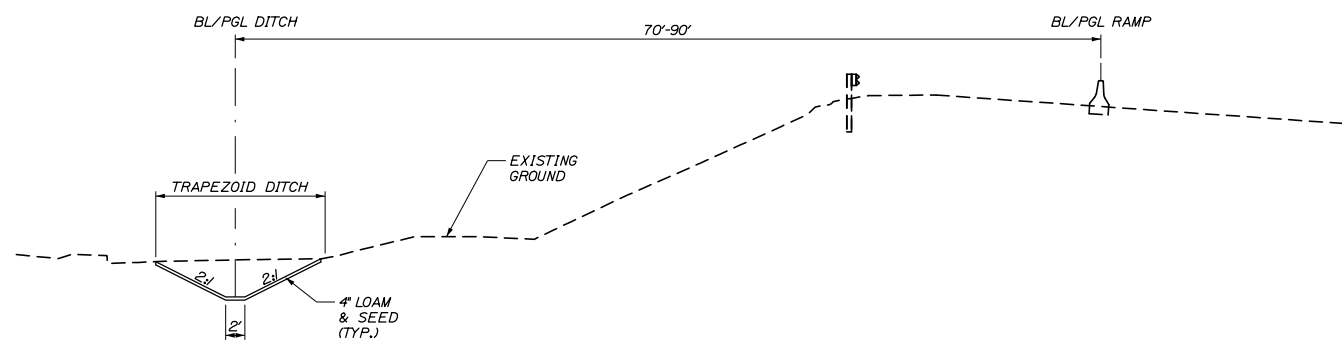
82 OF 376

Filename: PAW2_HP_Plan_10.dgn

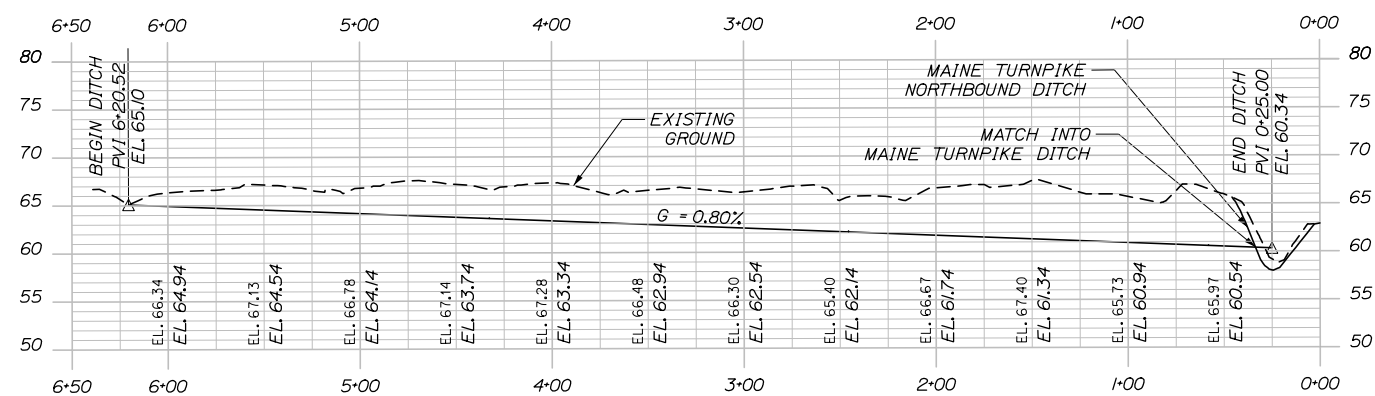
EXIT 48 INTERCHANGE BRIDGE ALIGNMENT

POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
POB	7+45.04							S 71°49'37.20" E	308889.4963	2910552.6553
PC	12+66.30								308726.9212	2911047.9166
PI	14+20.17	50°48'22.66" RT.	17°4'01.98"	324.00	221.32	153.87	34.68		308678.9317	2911194.1098
PCC	15+53.60							S 21°01'14.54" E	308535.3031	2911249.3032
PI	17+64.15	88°32'12.26" RT.	26°31'32.97"	216.00	210.55	333.78	85.64		308338.7624	2911324.8297
PT	18+87.38							S 67°30'57.72" W	308258.2417	291130.2816

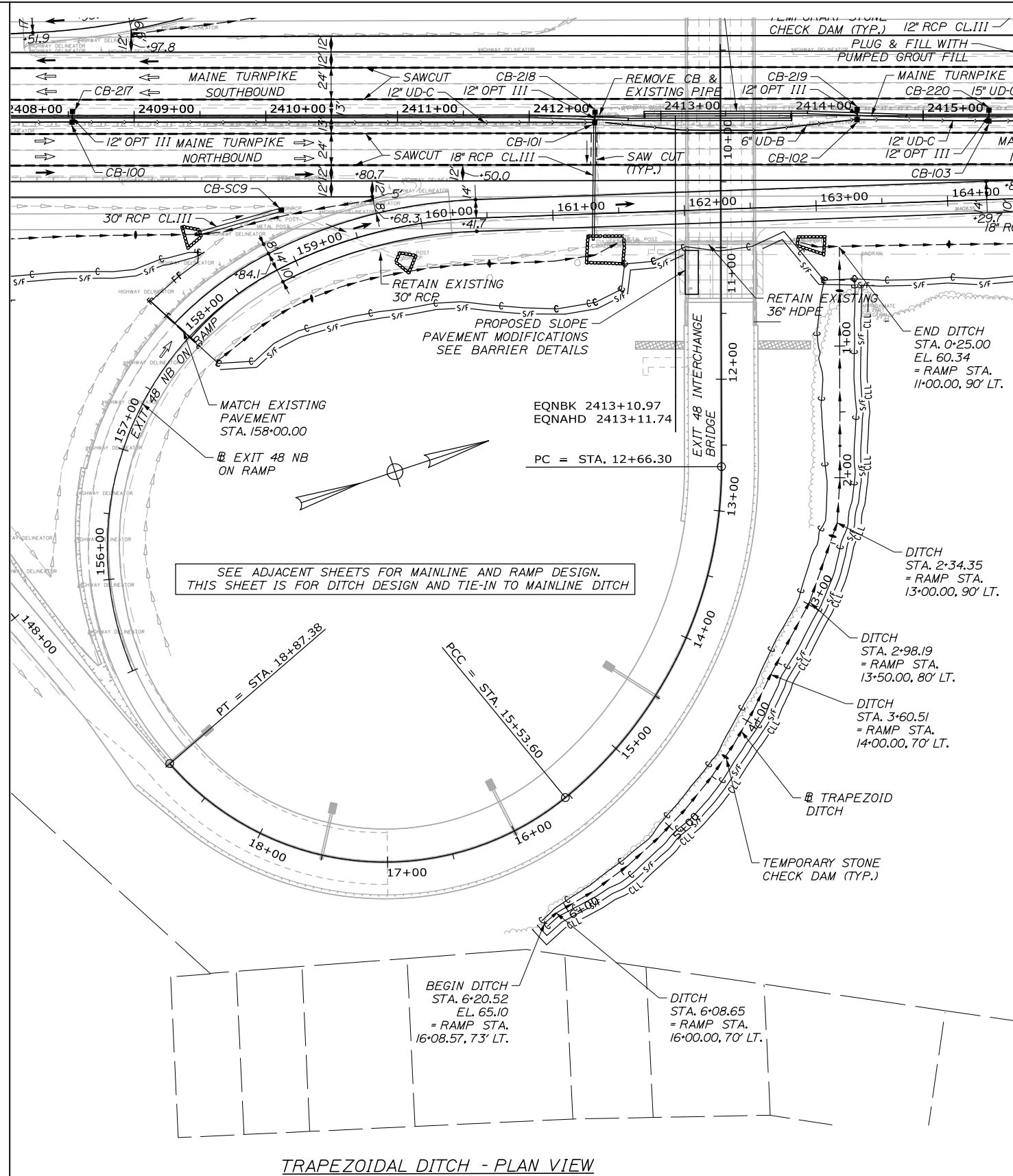
ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
 STA. 11+29.00, 107' LT. TO STA. 16+13.00, 72' LT. 596



TRAPEZOIDAL DITCH - TYPICAL SECTION



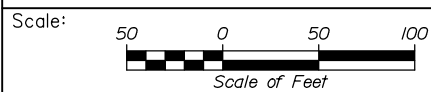
TRAPEZOIDAL DITCH - PROFILE



TRAPEZOIDAL DITCH - PLAN VIEW

Date: 9/8/2021

Filename: PAW2_HP_Plan_10A.dgn



Designed by:



HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 HIGHWAY PLAN (11 OF 13)
 (EXIT 48 NB DRAINAGE)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	AZ	09\21	Checked	PJS	09\21
Drawn	AZ	09\21	In Charge of	TRC	09\21

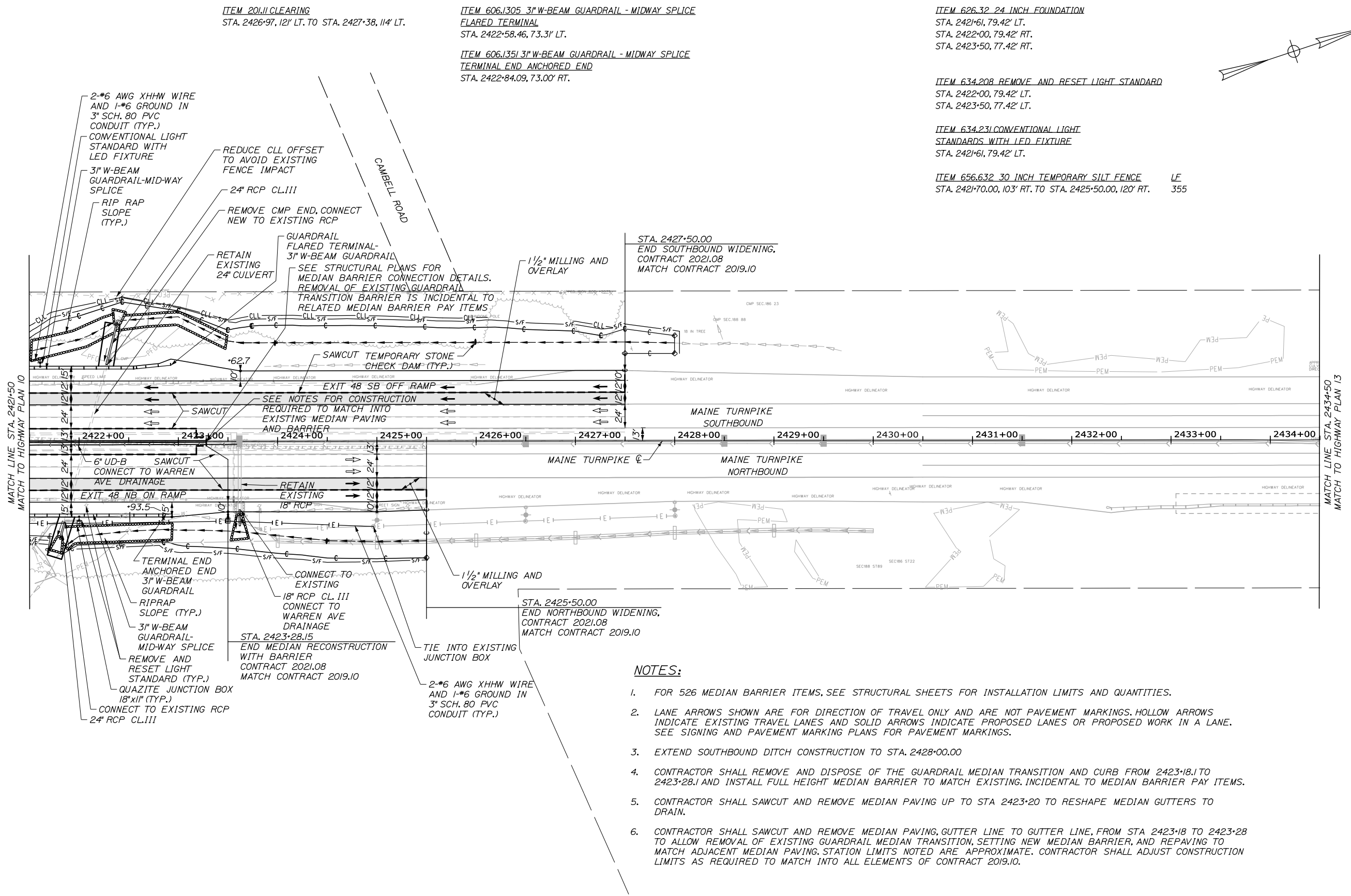
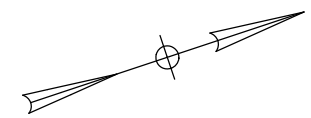
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: HP-10A

83 OF 376

Date: 9/8/2021



ITEM 201.11 CLEARING
STA. 2426+97, 121' LT. TO STA. 2427+38, 114' LT.

ITEM 606.1305 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
FLARED TERMINAL
STA. 2422+58.46, 73.31' LT.

ITEM 606.1351 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
TERMINAL END ANCHORED END
STA. 2422+84.09, 73.00' RT.

ITEM 626.32 24 INCH FOUNDATION
STA. 2421+61, 79.42' LT.
STA. 2422+00, 79.42' RT.
STA. 2423+50, 77.42' RT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
STA. 2422+00, 79.42' LT.
STA. 2423+50, 77.42' LT.

ITEM 634.231 CONVENTIONAL LIGHT
STANDARDS WITH LED FIXTURE
STA. 2421+61, 79.42' LT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
STA. 2421+70.00, 103' RT. TO STA. 2425+50.00, 120' RT. 355

STA. 2427+50.00
END SOUTHBOUND WIDENING,
CONTRACT 2021.08
MATCH CONTRACT 2019.10

1 1/2" MILLING AND
OVERLAY

GUARDRAIL
FLARED TERMINAL-
3" W-BEAM GUARDRAIL
SEE STRUCTURAL PLANS FOR
MEDIAN BARRIER CONNECTION DETAILS.
REMOVAL OF EXISTING GUARDRAIL
TRANSITION BARRIER IS INCIDENTAL TO
RELATED MEDIAN BARRIER PAY ITEMS

SAWCUT TEMPORARY STONE
CHECK DAM (TYP.)

EXIT 48 SB OFF RAMP
SEE NOTES FOR CONSTRUCTION
REQUIRED TO MATCH INTO
EXISTING MEDIAN PAVING
AND BARRIER

MAINE TURNPIKE
SOUTHBOUND

MAINE TURNPIKE
NORTHBOUND

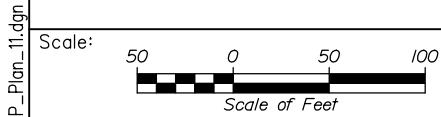
STA. 2425+50.00
END NORTHBOUND WIDENING,
CONTRACT 2021.08
MATCH CONTRACT 2019.10

TIE INTO EXISTING
JUNCTION BOX
2-*6 AWG XHHW WIRE
AND 1-*6 GROUND IN
3" SCH. 80 PVC
CONDUIT (TYP.)

STA. 2423+28.15
END MEDIAN RECONSTRUCTION
WITH BARRIER
CONTRACT 2021.08
MATCH CONTRACT 2019.10

NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
- EXTEND SOUTHBOUND DITCH CONSTRUCTION TO STA. 2428+00.00
- CONTRACTOR SHALL REMOVE AND DISPOSE OF THE GUARDRAIL MEDIAN TRANSITION AND CURB FROM 2423+18.1 TO 2423+28.1 AND INSTALL FULL HEIGHT MEDIAN BARRIER TO MATCH EXISTING. INCIDENTAL TO MEDIAN BARRIER PAY ITEMS.
- CONTRACTOR SHALL SAWCUT AND REMOVE MEDIAN PAVING UP TO STA 2423+20 TO RESHAPE MEDIAN GUTTERS TO DRAIN.
- CONTRACTOR SHALL SAWCUT AND REMOVE MEDIAN PAVING, GUTTER LINE TO GUTTER LINE, FROM STA 2423+18 TO 2423+28 TO ALLOW REMOVAL OF EXISTING GUARDRAIL MEDIAN TRANSITION, SETTING NEW MEDIAN BARRIER, AND REPAVING TO MATCH ADJACENT MEDIAN PAVING. STATION LIMITS NOTED ARE APPROXIMATE. CONTRACTOR SHALL ADJUST CONSTRUCTION LIMITS AS REQUIRED TO MATCH INTO ALL ELEMENTS OF CONTRACT 2019.10.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
HIGHWAY PLAN (12 OF 13)

SHEET NUMBER: HP-11

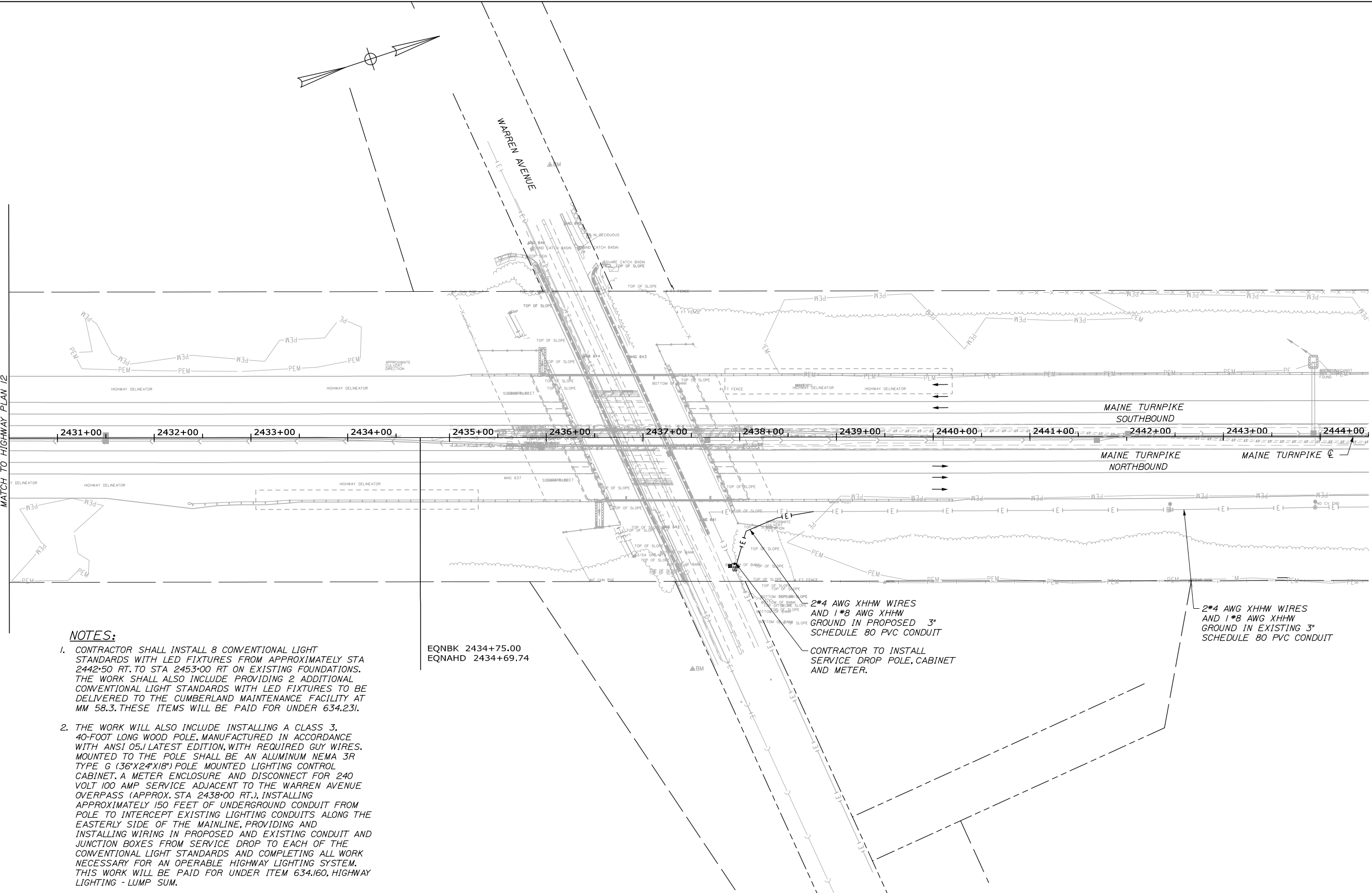
CONTRACT: 2021.08

84 OF 376

Filename: PAW2_HP_Plan_11.dgn

Date: 9/9/2021

MATCH LINE STA. 2434+50
MATCH TO HIGHWAY PLAN 12



NOTES:

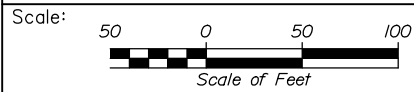
- CONTRACTOR SHALL INSTALL 8 CONVENTIONAL LIGHT STANDARDS WITH LED FIXTURES FROM APPROXIMATELY STA 2442+50 RT. TO STA 2453+00 RT ON EXISTING FOUNDATIONS. THE WORK SHALL ALSO INCLUDE PROVIDING 2 ADDITIONAL CONVENTIONAL LIGHT STANDARDS WITH LED FIXTURES TO BE DELIVERED TO THE CUMBERLAND MAINTENANCE FACILITY AT MM 58.3. THESE ITEMS WILL BE PAID FOR UNDER 634.231.
- THE WORK WILL ALSO INCLUDE INSTALLING A CLASS 3, 40-FOOT LONG WOOD POLE, MANUFACTURED IN ACCORDANCE WITH ANSI 05.1 LATEST EDITION, WITH REQUIRED GUY WIRES. MOUNTED TO THE POLE SHALL BE AN ALUMINUM NEMA 3R TYPE 6 (36"X24"X18") POLE MOUNTED LIGHTING CONTROL CABINET, A METER ENCLOSURE AND DISCONNECT FOR 240 VOLT 100 AMP SERVICE ADJACENT TO THE WARREN AVENUE OVERPASS (APPROX. STA 2438+00 RT.). INSTALLING APPROXIMATELY 150 FEET OF UNDERGROUND CONDUIT FROM POLE TO INTERCEPT EXISTING LIGHTING CONDUITS ALONG THE EASTERLY SIDE OF THE MAINLINE, PROVIDING AND INSTALLING WIRING IN PROPOSED AND EXISTING CONDUIT AND JUNCTION BOXES FROM SERVICE DROP TO EACH OF THE CONVENTIONAL LIGHT STANDARDS AND COMPLETING ALL WORK NECESSARY FOR AN OPERABLE HIGHWAY LIGHTING SYSTEM. THIS WORK WILL BE PAID FOR UNDER ITEM 634.160, HIGHWAY LIGHTING - LUMP SUM.

EQNBK 2434+75.00
EQNAHD 2434+69.74

2*4 AWG XHHW WIRES
AND 1*8 AWG XHHW
GROUND IN PROPOSED 3"
SCHEDULE 80 PVC CONDUIT

CONTRACTOR TO INSTALL
SERVICE DROP POLE, CABINET
AND METER.

2*4 AWG XHHW WIRES
AND 1*8 AWG XHHW
GROUND IN EXISTING 3"
SCHEDULE 80 PVC CONDUIT



Designed by:



HNTB CORPORATION
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
HIGHWAY PLAN (13 OF 13)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

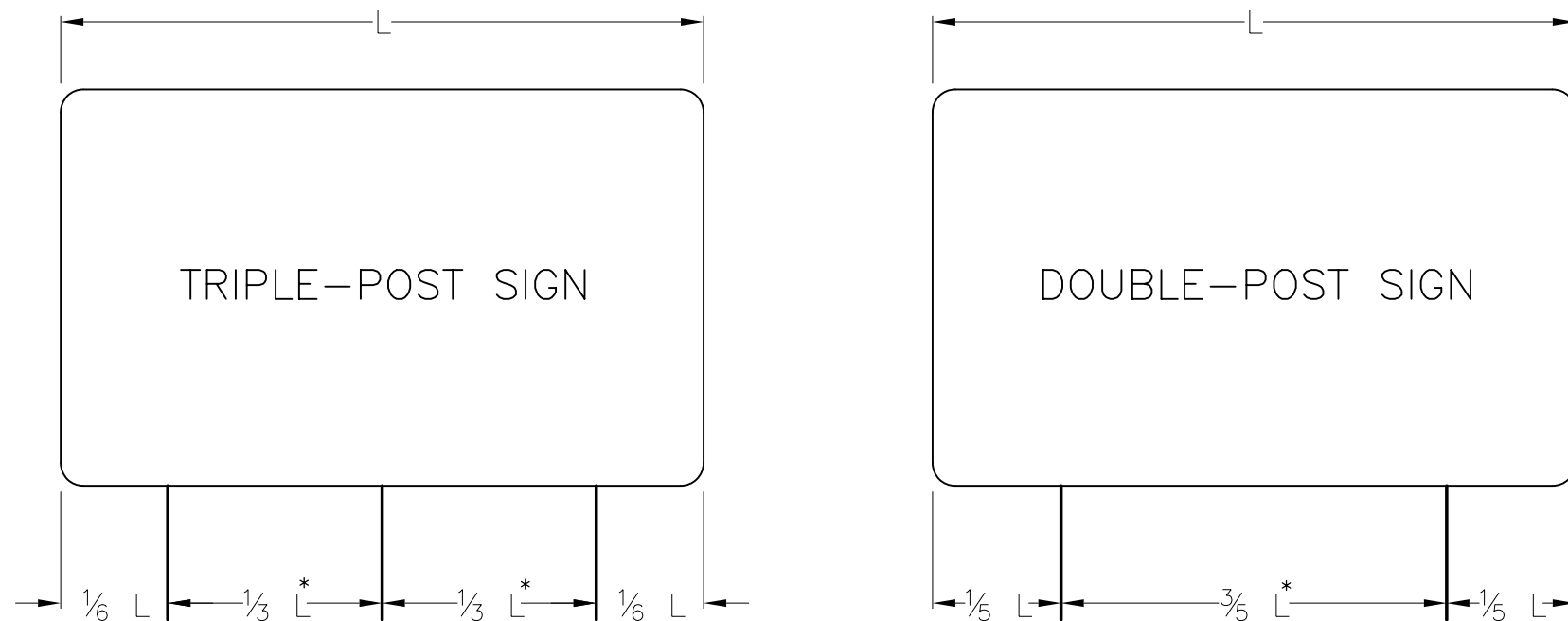
CONTRACT: 2021.08

SHEET NUMBER: HP-11A

85 OF 376

Filename: PAW2_HP_Plan_11A.dgn

Date: 9/8/2021



POLE SPACING DETAIL
N.T.S.

* - OR USE A MINIMUM OF 7 FEET WHEN INSTALLED ON BREAKAWAY DEVICES IF DISTANCE BETWEEN POSTS IS LESS THEN 7 FEET. THE OVERHANG SHALL BE ADJUSTED ACCORDINGLY.

GENERAL NOTES

- BOLTS TO BE 50,000 PSI MINIMUM YIELD STRENGTH.
- POST TO BASE PLATE WELD SHALL BE 5*16" FILLET WELD.
- BASE PLATES AND H-BEAMS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 720.06.
- SIGN POSTS FOR THE SAME SIGN SHALL NOT BE INSTALLED ON BOTH SIDES OF A DITCH UNLESS DIRECTED BY THE RESIDENT.
- REGULATORY, WARNING, AND ROUTE MARKER ASSEMBLY SIGNS OF 16 SF OR LESS AND ARE NOT ON THE MAINE TURNPIKE MAINLINE SHALL USE A 6' X 6' WOOD POST. WOOD POST SHALL BE INCIDENTAL TO THE SIGN ITEM.
- REGULATORY, WARNING, AND ROUTE MARKER ASSEMBLY SIGNS OVER 60' IN WIDTH SHALL BE FABRICATED AND PAID FOR UNDER 645.251 - ROADSIDE GUIDE SIGN, TYPE I AS INDICATED IN THE SIGN SUMMARY TABLES.
- THE RESIDENT SHALL APPROVE THE REMOVAL OF EXISTING SIGNS PRIOR TO REMOVAL TO VERIFY IF THEY ARE NEEDED FOR MOT.
- EXISTING WRONG WAY AND DO NOT ENTER SIGNS SHALL BE REMOVED ONLY WHEN ACCESS IS BLOCKED TO THAT ROADWAY.
- EXISTING SIGNS TO BE REMOVED SHALL BE STACKED ON SITE FOR USE DURING CONSTRUCTION IF APPLICABLE.
- ALL SIGNS SHALL BE MANUFACTURED WITH DIRECT APPLIED OR DIGITALLY PRINTED LETTER, NUMERALS, SYMBOLS, AND BORDERS. SEE SPECIAL PROVISION 719. SCREEN PRINTED SIGNS WILL NOT BE PERMITTED.

BREAKAWAY NOTES

- ON BREAKAWAY SUPPORTS, THE HINGE SHOULD BE A MINIMUM OF 7 FEET ABOVE THE FOUNDATION. NO PERMANENT SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGE.

REMOVE AND RESET & PROPOSED GUIDE SIGN NOTES

- THE CONTRACTOR MAY REUSE EXISTING POLES, FOUNDATIONS AND BREAKAWAY DEVICES AT ANY SIGN LOCATION WHERE FEASIBLE.
- PROPOSED POLE LENGTHS ARE MEASURED FROM THE TOP OF THE FOUNDATION TO THE TOP OF SIGN AND ARE APPROXIMATE. FINAL LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR ONCE FOUNDATIONS ARE PLACED. SEE REMOVE AND RESET SIGN SUMMARY.
- EXISTING SIGN SIZES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AGAINST THE LISTED POST SIZING.


SALVAGING SIGNS AND SIGN SUPPORTS

- THE AUTHORITY HAS THE RIGHT OF FIRST REFUSAL ON SALVAGING ALL REMOVED EQUIPMENT FOR THIS PROJECT. THE CONTRACTOR SHALL TAKE CARE WHEN REMOVING SIGNS AND SIGN SUPPORTS TO AVOID ADDITIONAL WEAR AND TEAR TO THE EXISTING HARDWARE. THE CONTRACTOR SHALL TRANSPORT AND DELIVER ALL ACCEPTED SALVAGED MATERIALS, EQUIPMENT AND HARDWARE TO THE MAINE TURNPIKE SIGN SHOP, LOCATED ALONG THE TURNPIKE NORTHBOUND ROADWAY AT MILEPOINT 58. DELIVERY OF SALVAGED MATERIALS SHALL BE COORDINATED THROUGH THE RESIDENT.
- ALL SIGNS SHALL BECOME PROPERTY OF THE CONTRACTOR, REMOVED FROM THE PROJECT SITE, AND DISPOSED OF IN A MANNER ACCEPTABLE TO THE RESIDENT.
- ALL BREAKAWAY DEVICES REMOVED UNDER THIS PROJECT SHALL BE SALVAGED AND DELIVERED TO THE AUTHORITY'S SIGN SHOP. ALL WOODEN SIGN SUPPORTS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE RESIDENT.

SINGLE SUPPORT SIGNS									
FOUNDATION DIAMETER	FOUNDATION DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (2) (3)	MATERIAL	ANCHOR BOLTS (1)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
		$A < 4 \text{ FT}^2$		U CHANNEL POST					
		$4 < A \leq 10 \text{ FT}^2$		WOOD POST 6"X6"					
18"	6'	$10 < A \leq 16 \text{ FT}^2$	W=4'-0" MAX. BUT INCLUDES 5'-0" YIELD SIGN	W6X9	12"X12"X1" 41 LBS.	A36	1" ϕ X 3'-0"	12"	12 FEET TO SIGN CENTER
18" (24")	6'	$16 < A \leq 25 \text{ FT}^2$	W=5'-0" MAX	W6X15 (WITH BREAKAWAY)	12"X12"X1" 41 LBS.	A36	1" ϕ X 3'-0"	12"	
24"	7'	$25 < A \leq 42 \text{ FT}^2$	W=7'-0" MAX	W8X24	14"X14"X1" 55 LBS.	A36	1-1/4" ϕ X 3'-6"	14"	

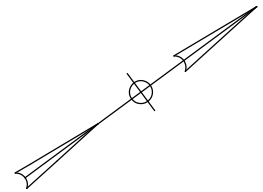
MULTIPLE SUPPORT SIGNS									
FOUNDATION DIAMETER	FOUNDATION DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (2) (3)	MATERIAL	ANCHOR BOLTS (1)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
24"	7'	TO 60 FT ² /POST		W8X18	14"X14"X1" 55 LBS.	A36	1-1/4" ϕ X 3'-6"	14"	20 FEET TO SIGN CENTER
24" (30")	7'	60-85 FT ² /POST		W10X22 (WITH BREAKAWAY)	12"X17"X1-1/4" 72 LBS.	A36	1-1/4" ϕ X 3'-6"	15"	
30" (36")	11"	85-110 FT ² /POST		W12X26 (WITH BREAKAWAY)	13"X19"X1-1/4" 87 LBS.	A36	1-1/2" ϕ X 4'-0"	17"	
30" (36")	11"	110-135 FT ² /POST		W14X30 (WITH BREAKAWAY)	14"X21"X1-1/4" 104 LBS.	A36	1-1/2" ϕ X 4'-0"	19"	

Filename: PAW2_Sign_Details.dgn

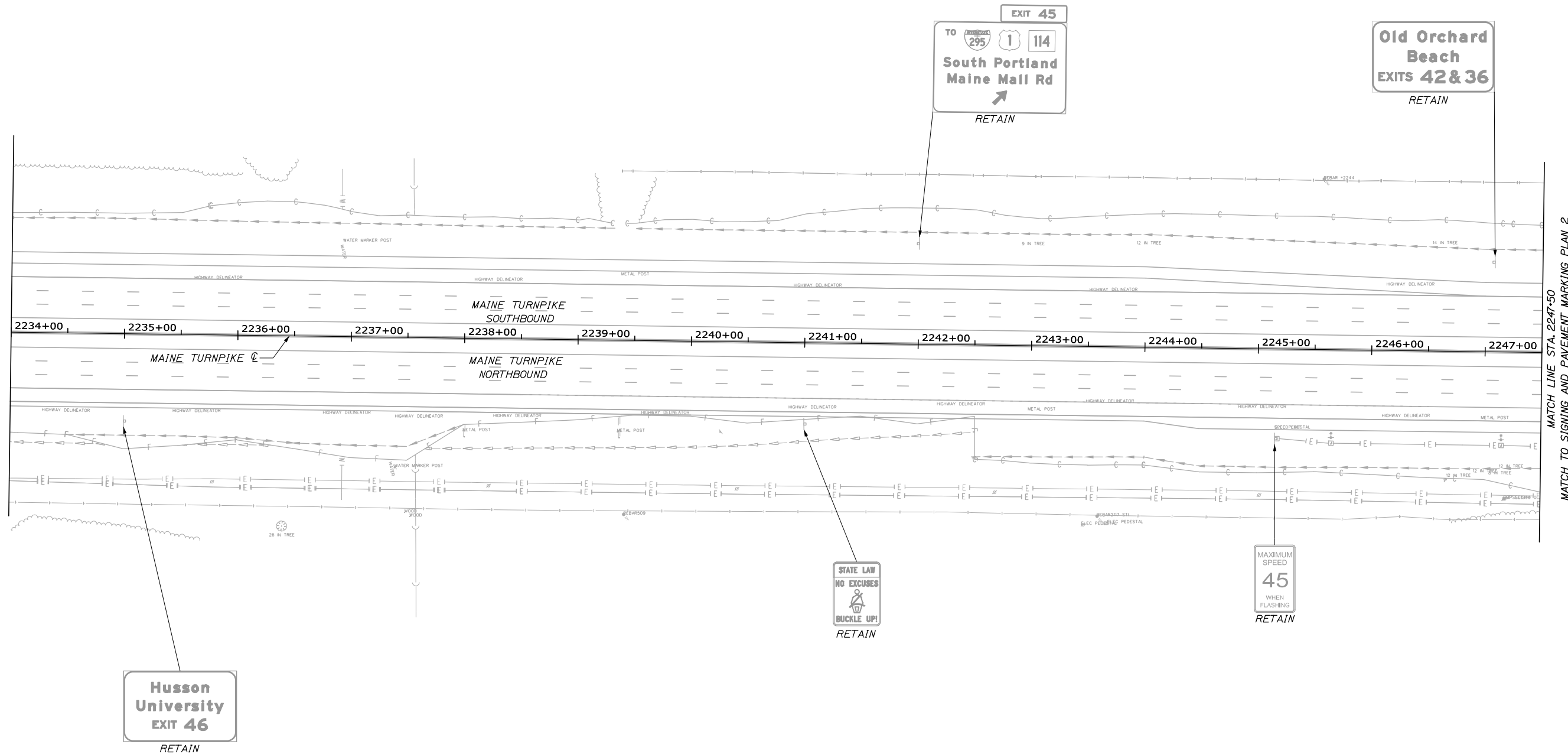
Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 46.4 TO MM 49.3 SIGN DETAILS AND NOTES	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.		MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		CONTRACT: 2021.08	
				Designed	PEM 09\21	Checked	SMA 09\21	SHEET NUMBER: SDN-01	
				Drawn	PEM 09\21	In Charge of	TRC 09\21	86 OF 376	

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.
- EXIT 46 NORTHBOUND OFF SIGNING SHALL BE MAINTAINED UNTIL THE THIRD LANE IS CONSTRUCTED AND READY FOR TRAFFIC NORTH OF EXIT 46.



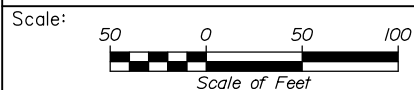
Date: 9/8/2021



MATCH LINE STA. 2247+50
MATCH TO SIGNING AND PAVEMENT MARKING PLAN 2

LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(1 OF 17)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	PEM	09\21	Checked SMA 09\21
Drawn	PEM	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

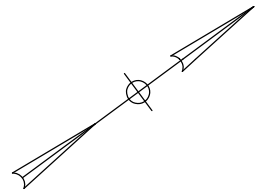
SHEET NUMBER: SPM-01

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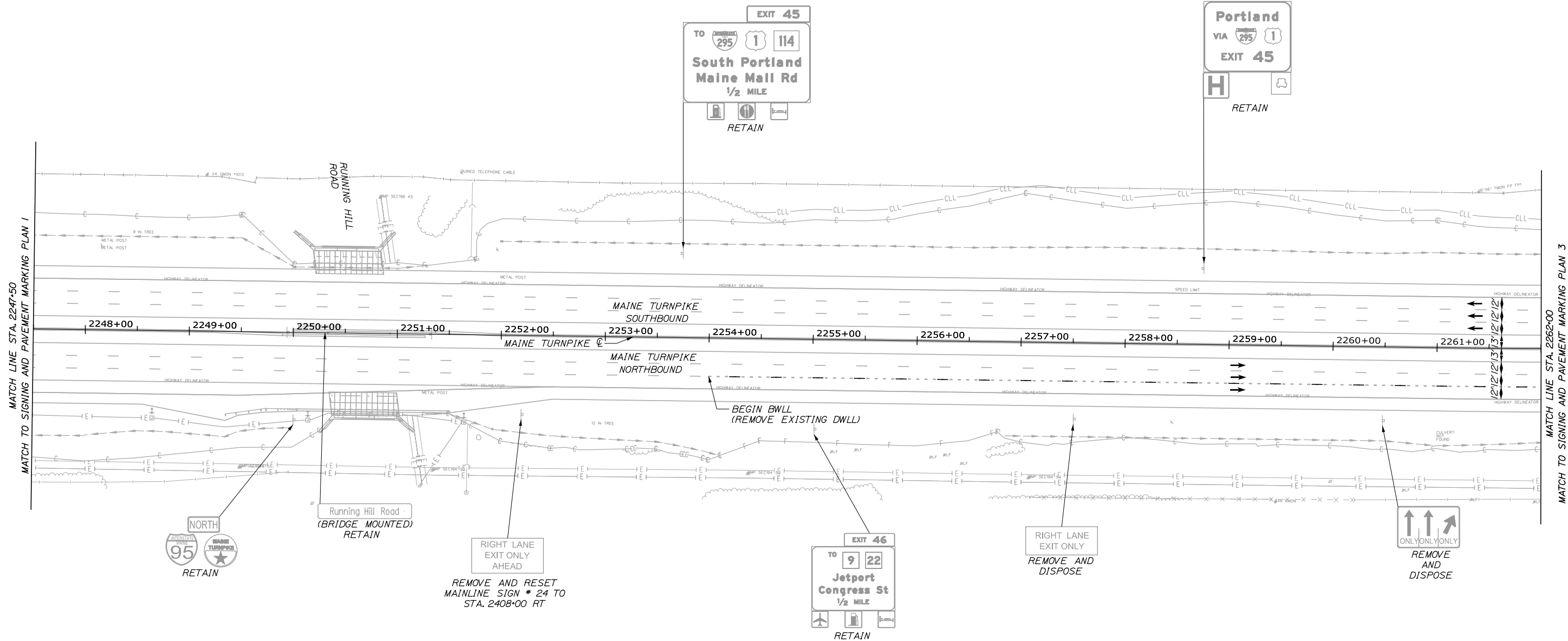
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NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.
- EXIT 46 NORTHBOUND OFF SIGNING SHALL BE MAINTAINED UNTIL THE THIRD LANE IS CONSTRUCTED AND READY FOR TRAFFIC NORTH OF EXIT 46.

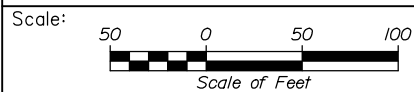


Date: 9/8/2021



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE



Designed by:



HNTB CORPORATION
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 South Portland, ME 04106
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 SIGNING AND PAVEMENT MARKING
 (2 OF 17)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	PEM	09\21	Checked SMA 09\21
Drawn	PEM	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

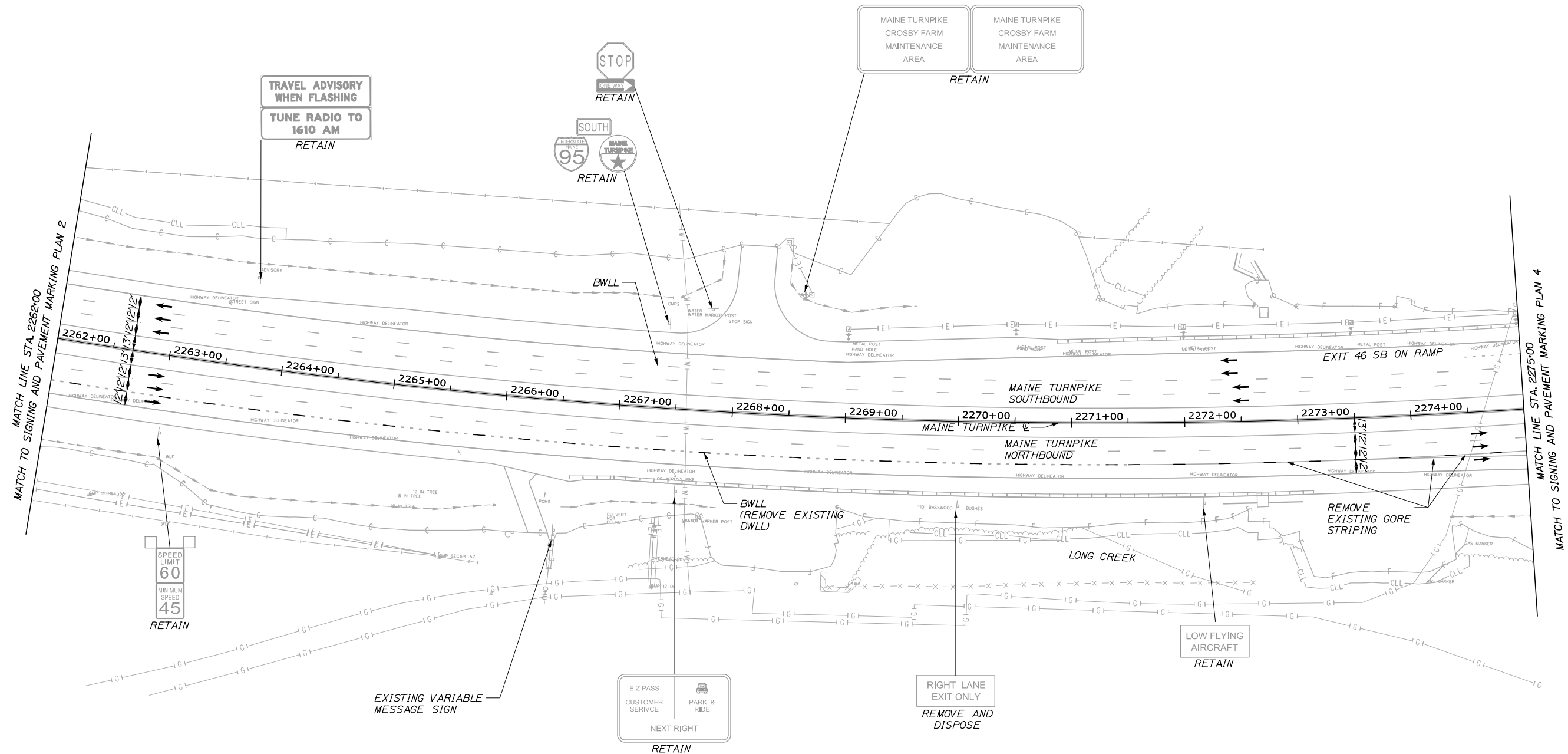
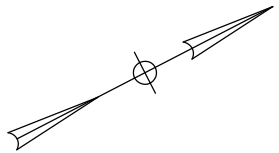
SHEET NUMBER: SPM-02

88 OF 376

Filename: PAW2_SPM_Plan_02.dgn

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.
- EXIT 46 NORTHBOUND OFF SIGNING SHALL BE MAINTAINED UNTIL THE THIRD LANE IS CONSTRUCTED AND READY FOR TRAFFIC NORTH OF EXIT 46.

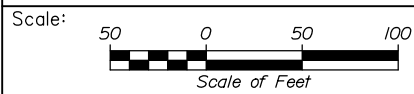


LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Date: 9/8/2021

Filename: PAW2_SPM_Plan_03.dgn



Designed by:



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 South Portland, ME 04106
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 SIGNING AND PAVEMENT MARKING
 (3 OF 17)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	PEM	09\21	Checked SMA 09\21
Drawn	PEM	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

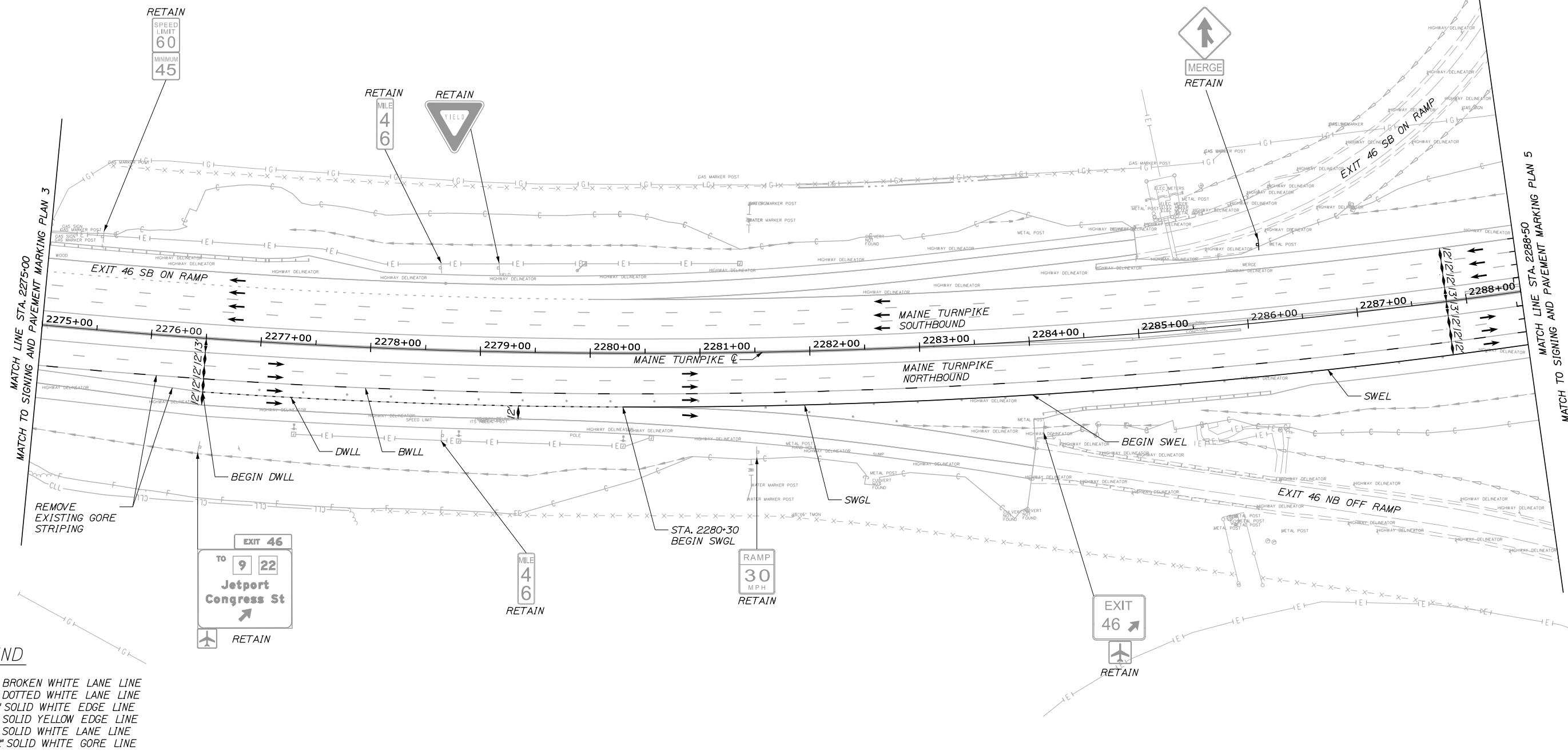
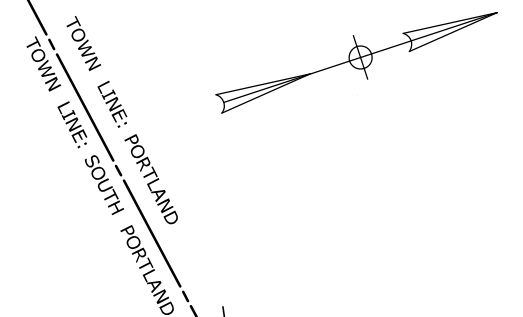
SHEET NUMBER: SPM-03

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NOTES:

- EXIT 46 NORTHBOUND OFF SIGNING SHALL BE MAINTAINED UNTIL THE THIRD LANE IS CONSTRUCTED AND READY FOR TRAFFIC NORTH OF EXIT 46.

Date: 9/8/2021



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	09\21	Checked	SMA	09\21
Drawn	PEM	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

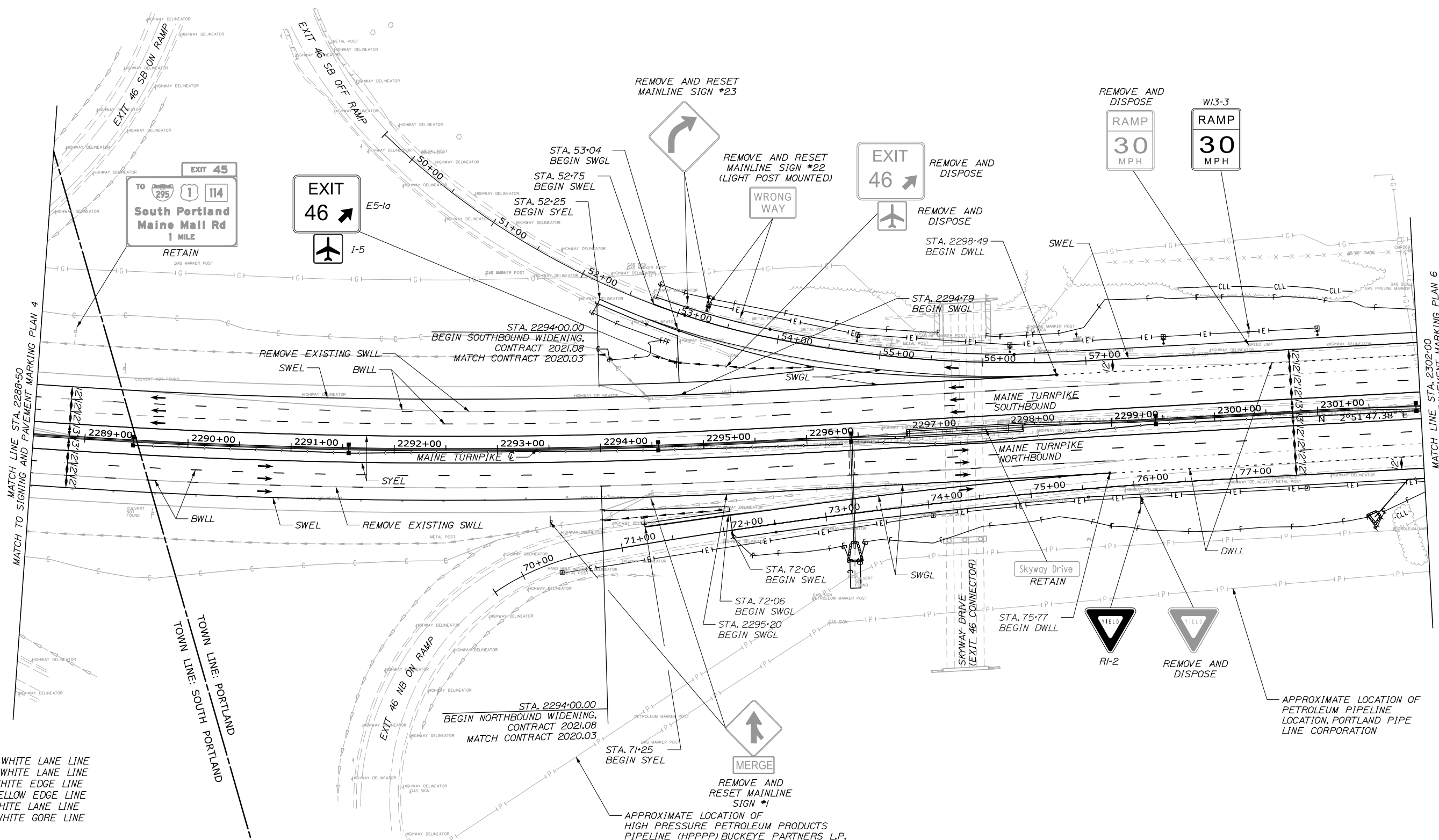
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(4 OF 17)

SHEET NUMBER: SPM-04
CONTRACTS: 2021.08
90 OF 376

Filename: PAW2_SPM_Plan_04.dgn



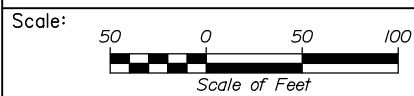
Date: 9/8/2021



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
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- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW2_SPM_Plan_05.dgn



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(5 OF 17)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	PEM	09\21	Checked SMA 09\21
Drawn	PEM	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

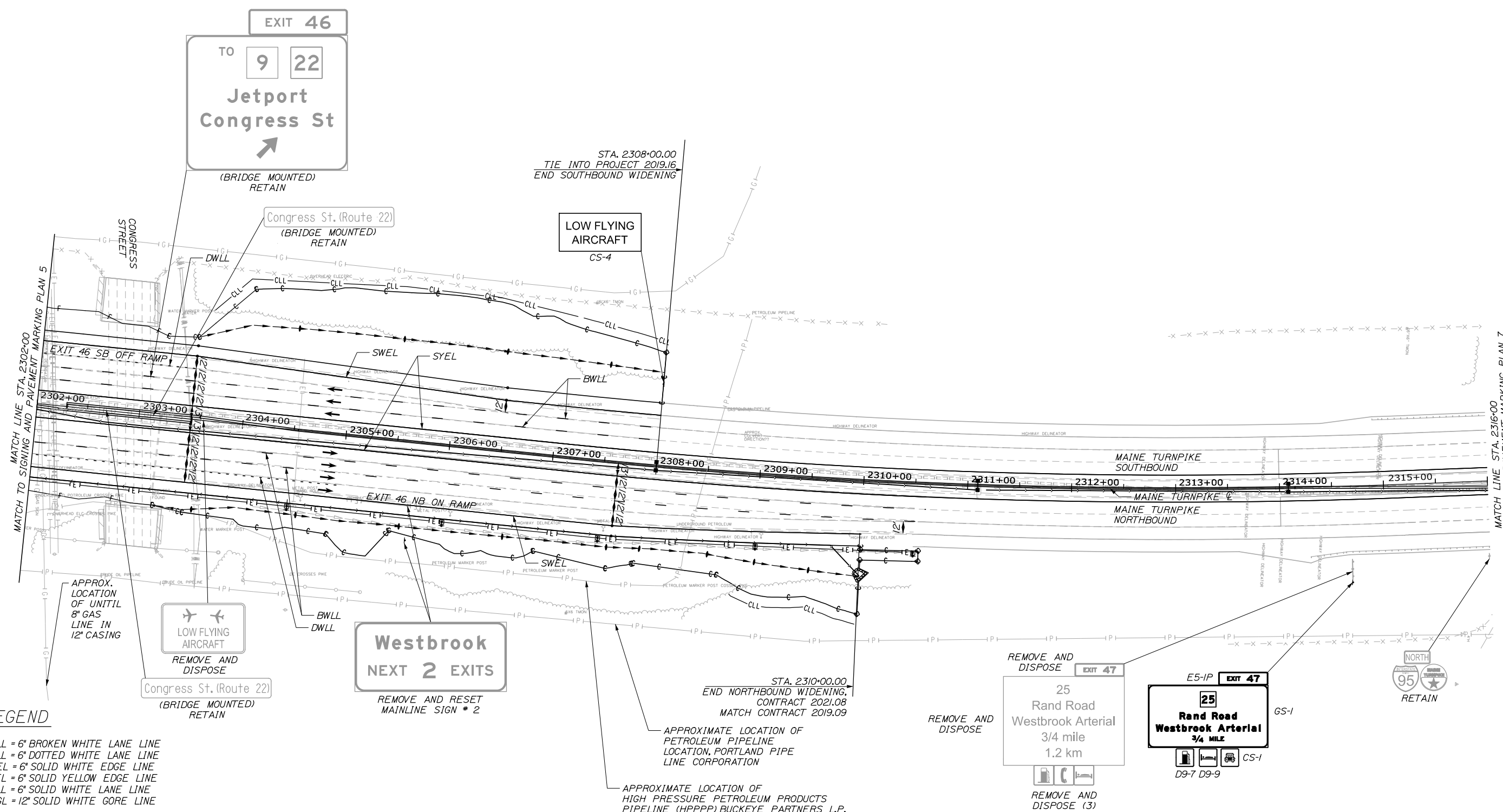
CONTRACTS: 2021.08

SHEET NUMBER: SPM-05

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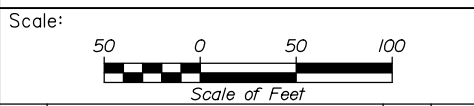
Date: 9/8/2021



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW2_SPM_Plan_06.dgn



No.	Revision	By	Date

Designed by:

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

By	Date	By	Date
Designed	PEM 09\21	Checked	SMA 09\21
Drawn	PEM 09\21	In Charge of	TRC 09\21

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(6 of 17)

SHEET NUMBER: SPM-06
CONTRACT: 2021.08
92 OF 376

Remove and Dispose (3)

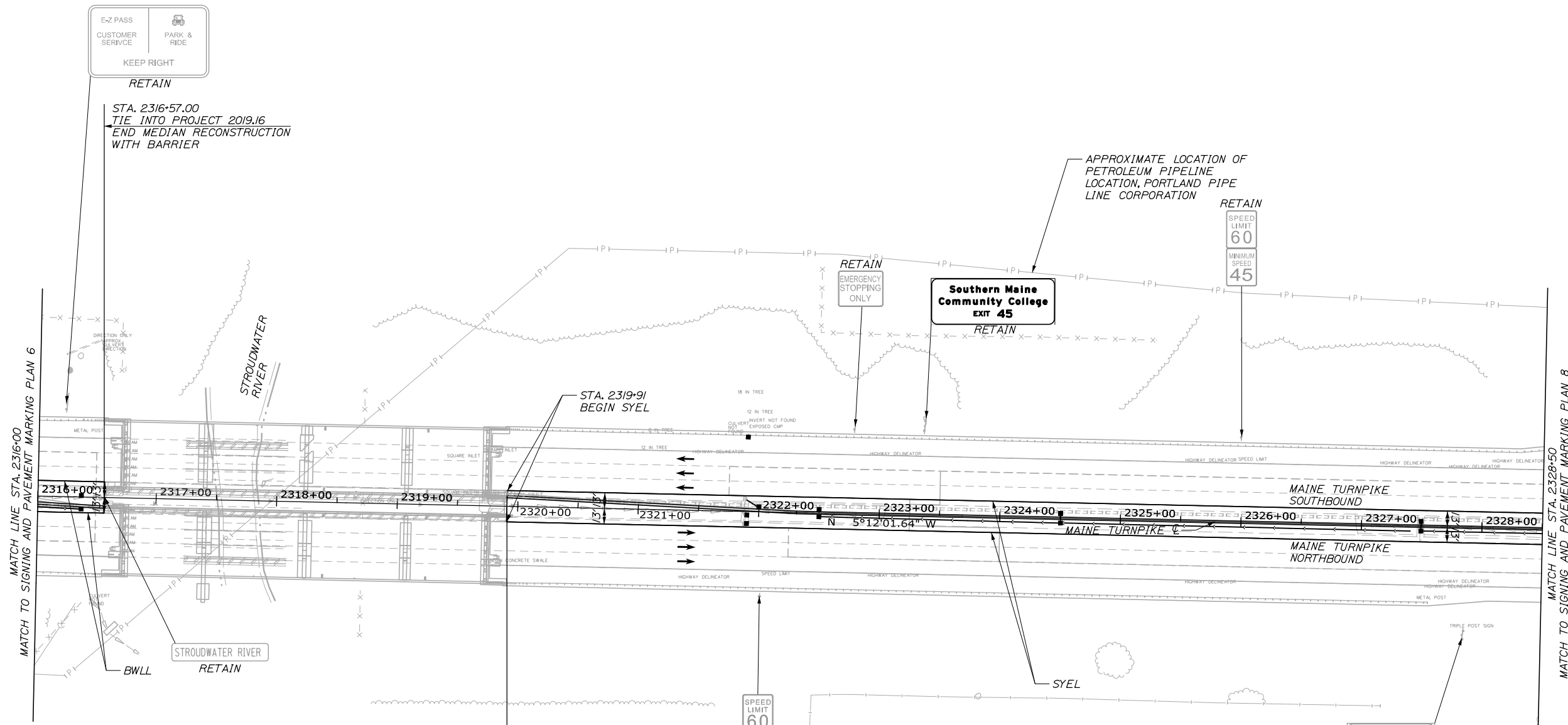
Remove and Dispose (3)

Remove and Dispose (3)

Remove and Dispose (3)



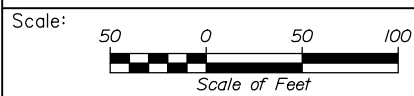
Date: 9/8/2021



LEGEND

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STA. 2319+91.00
 BEGIN MEDIAN RECONSTRUCTION
 WITH BARRIER,
 CONTRACT 2021.08
 MATCH CONTRACT 2019.09



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No.	Revision	By	Date

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 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

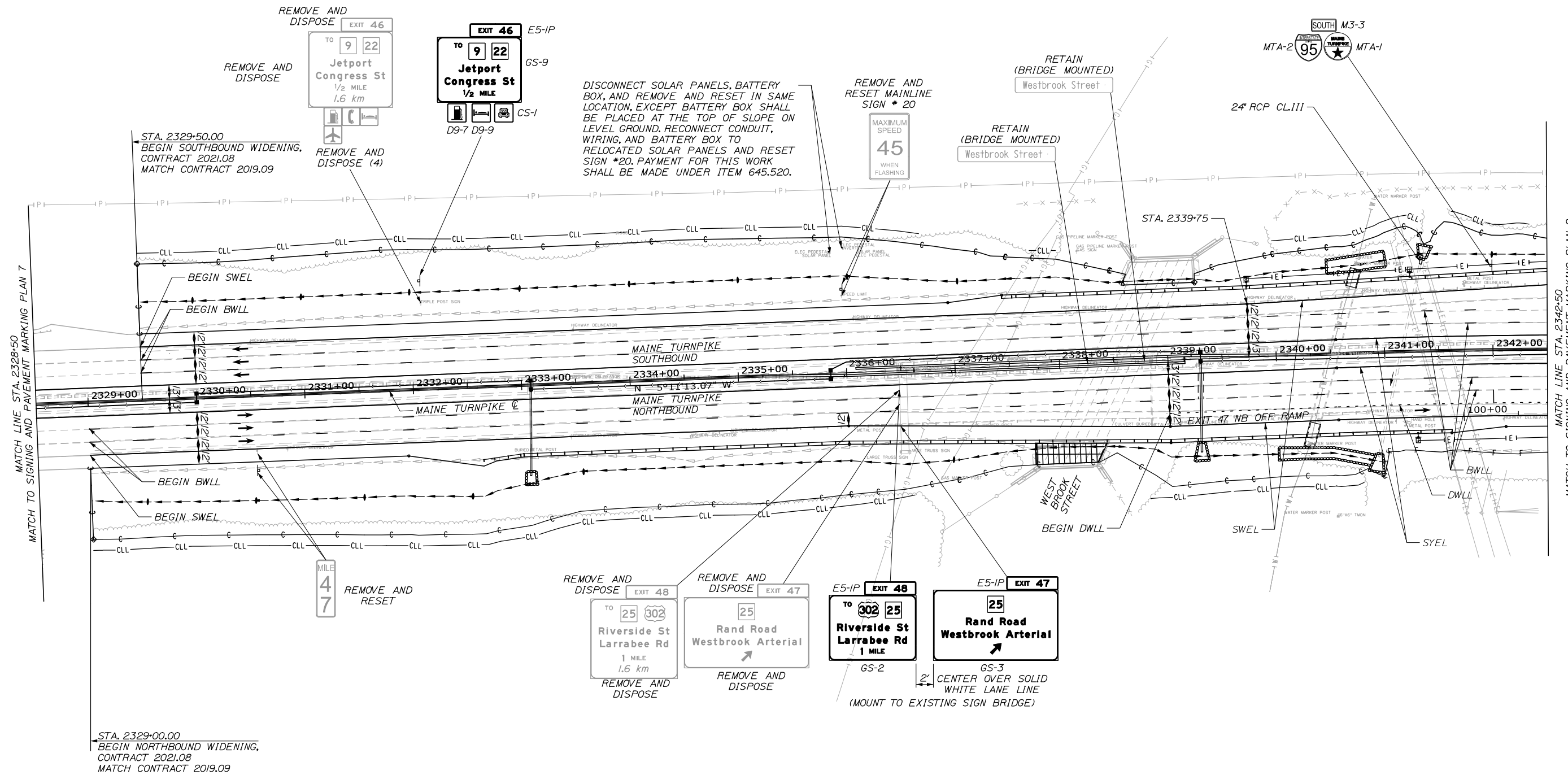
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 SIGNING AND PAVEMENT MARKING
 (7 of 17)

SHEET NUMBER: SPM-07
 93 OF 376

Filename: PAW2_SPM_Plan_07.dgn



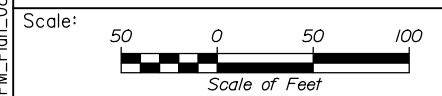
Date: 9/8/2021



LEGEND

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Filename: PAW2_SPM_Plan_08.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

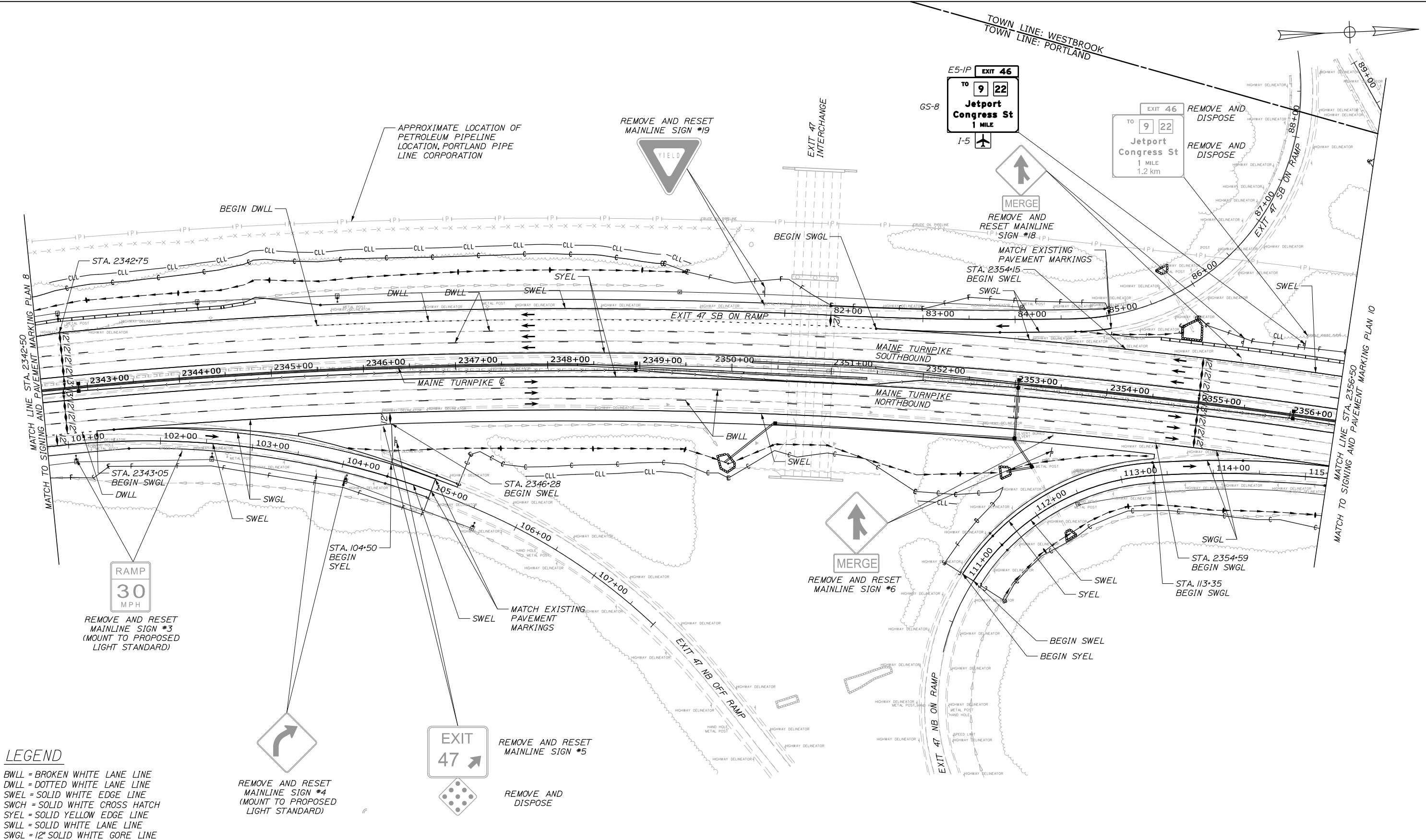
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(8 of 17)

SHEET NUMBER: SPM-08
CONTRACTS: 2021.08
94 OF 376

Date: 9/8/2021

Filename: PAW2_SPM_Plan_09.dgn



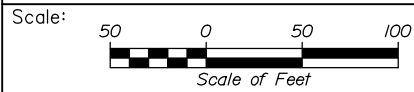
LEGEND

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REMOVE AND RESET MAINLINE SIGN #4 (MOUNT TO PROPOSED LIGHT STANDARD)

REMOVE AND RESET MAINLINE SIGN #5

REMOVE AND DISPOSE



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THE GOLD STAR MEMORIAL HIGHWAY

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 SIGNING AND PAVEMENT MARKING
 (9 of 17)

No.	Revision	By	Date

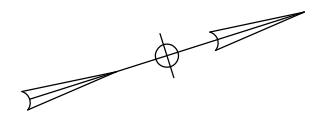
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	PEM	09\21	Checked SMA 09\21
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

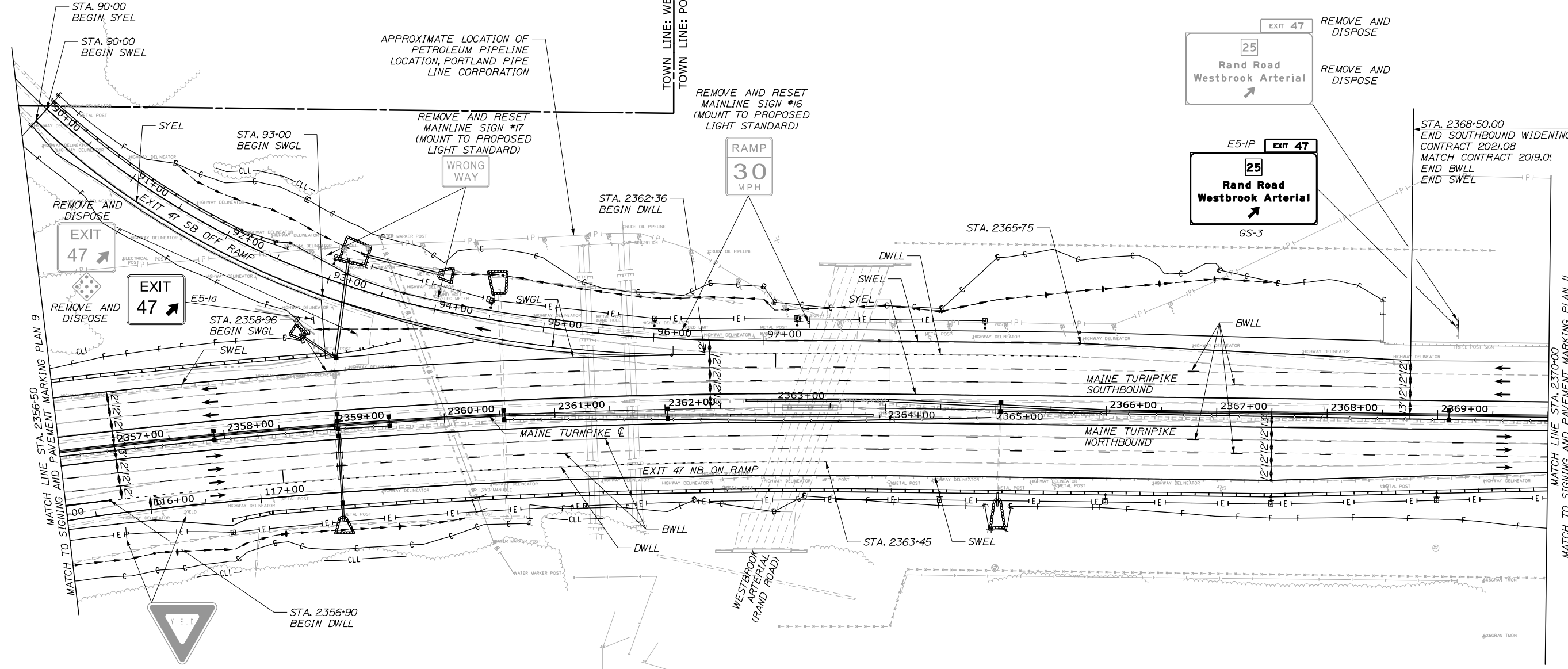
CONTRACTS: 2021.08

SHEET NUMBER: SPM-09

95 OF 376

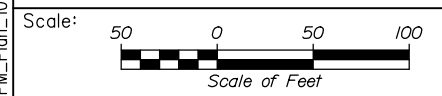


Date: 9/8/2021



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THE GOLD STAR
MEMORIAL HIGHWAY

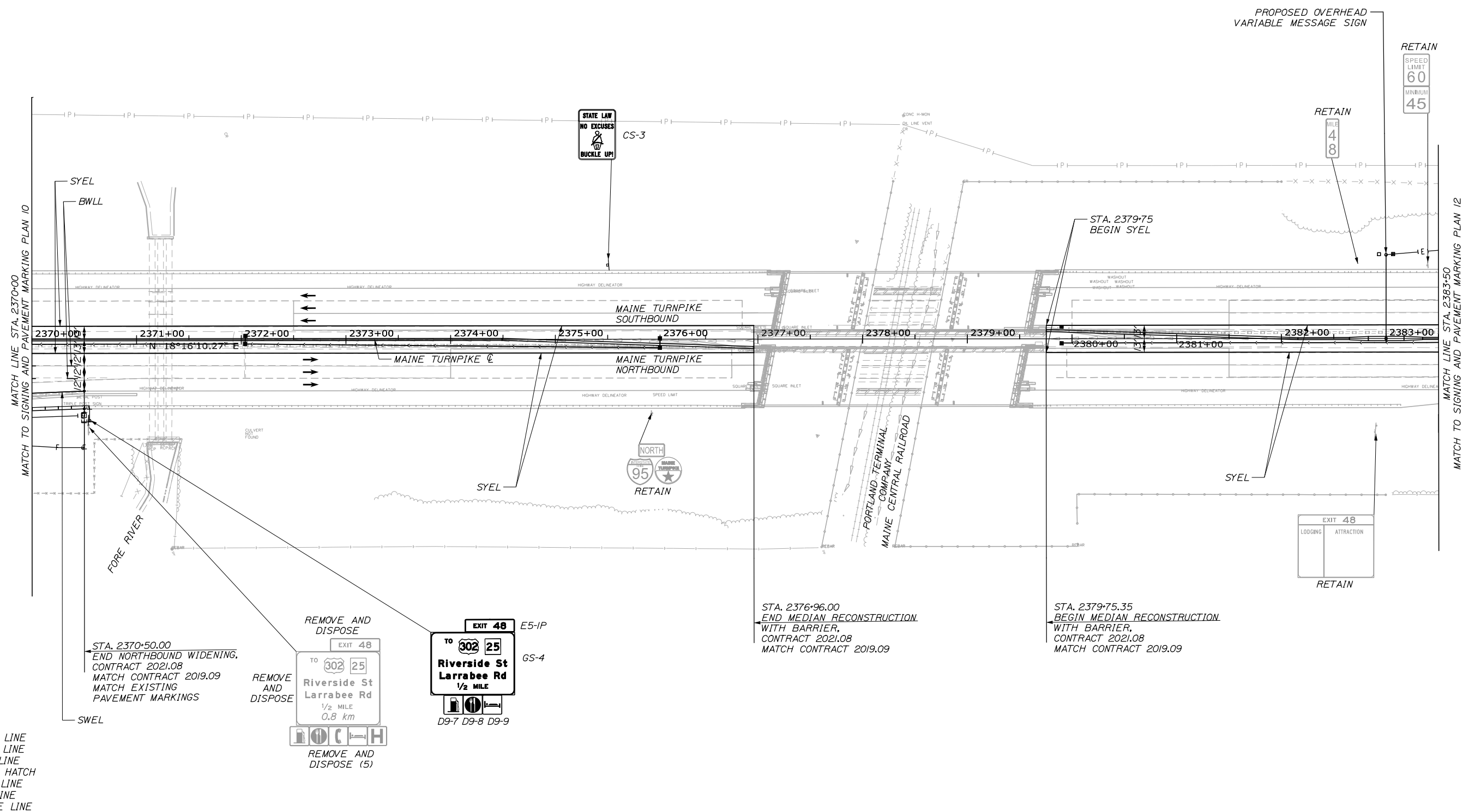
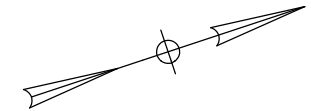
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(10 of 17)

SHEET NUMBER: SPM-10
CONTRACTS: 2021.08
96 OF 376

Filename: PAW2_SPM_Plan_10.dgn

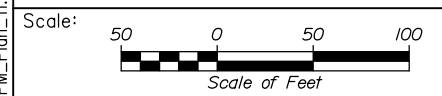
Date: 9/8/2021



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Filename: PAW2_SPM_Plan_11.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
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Drawn	PEM	09\21	In Charge of	TRC	09\21

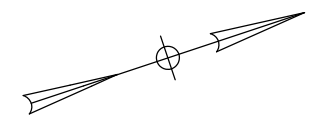
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THE GOLD STAR
MEMORIAL HIGHWAY

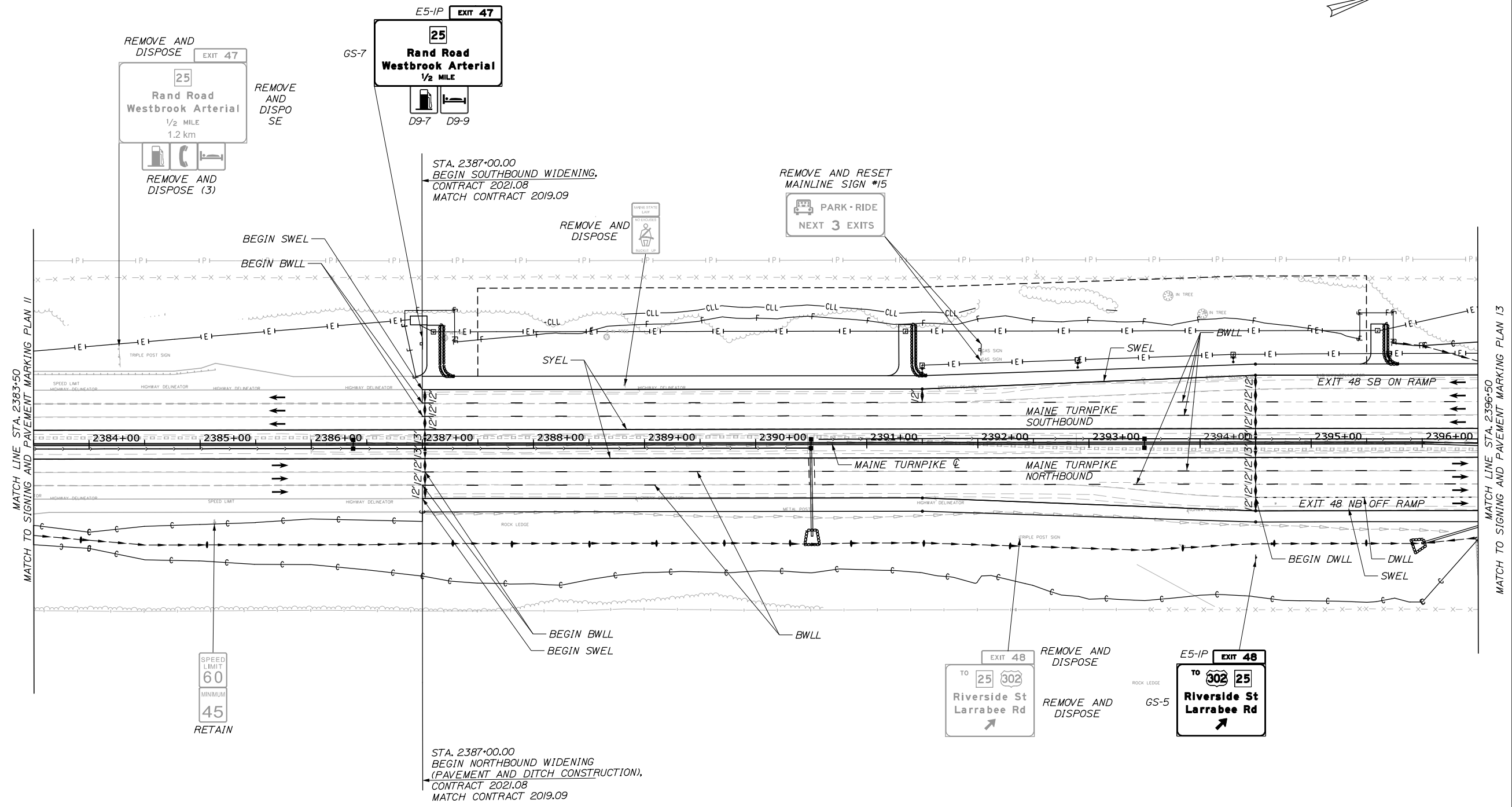
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(11 of 17)

SHEET NUMBER: SPM-11
CONTRACTS: 2021.08
97 OF 376

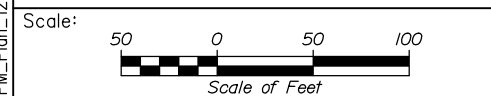


Date: 9/8/2021



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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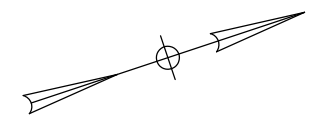
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

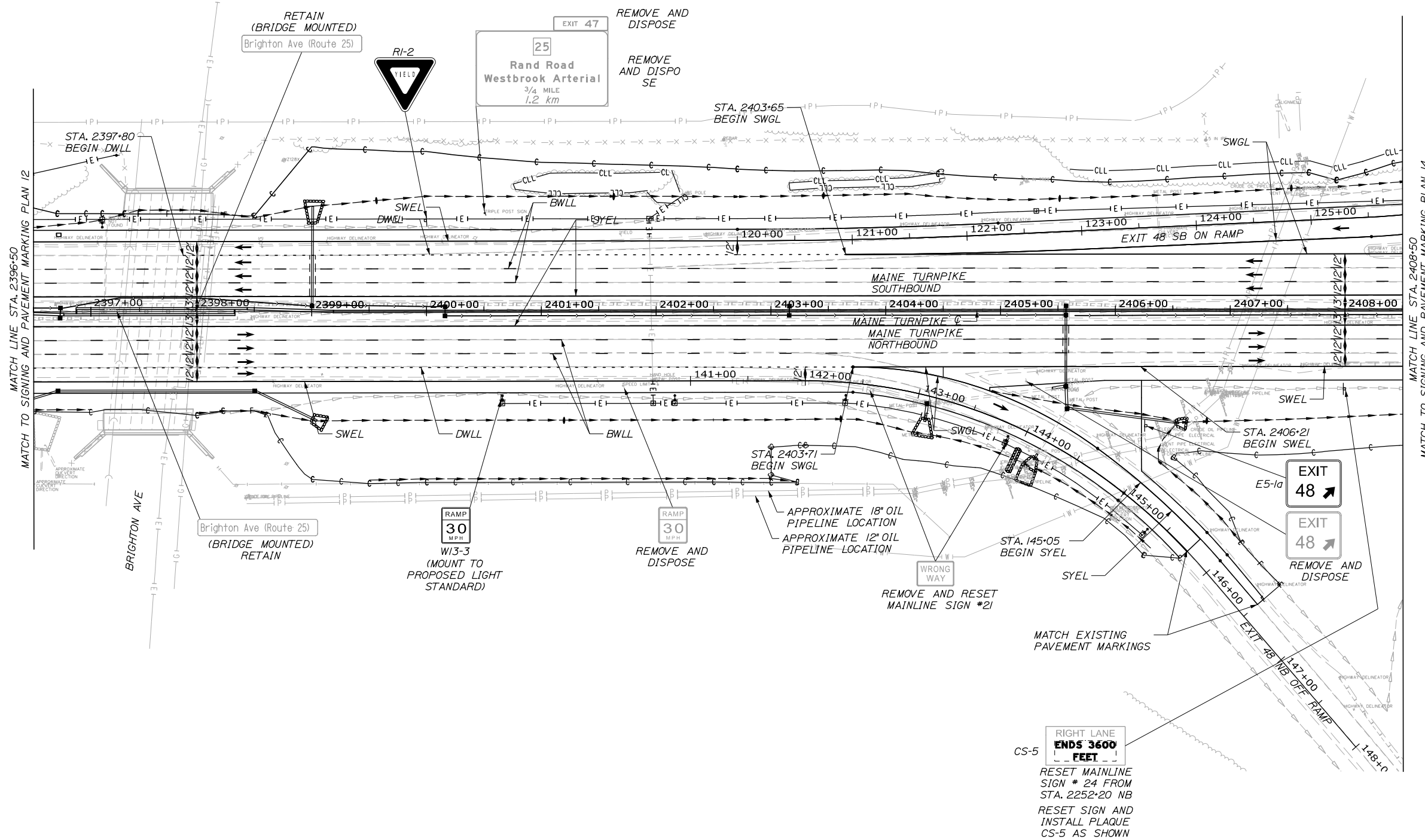
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(12 of 17)

SHEET NUMBER: SPM-12
98 OF 376

Filename: PAW2_SPM_Plan_12.dgn



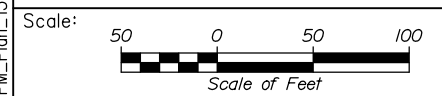
Date: 9/8/2021



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Filename: PAW2_SPM_Plan_13.dgn



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No.	Revision	By	Date

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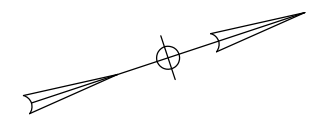


**THE GOLD STAR
MEMORIAL HIGHWAY**

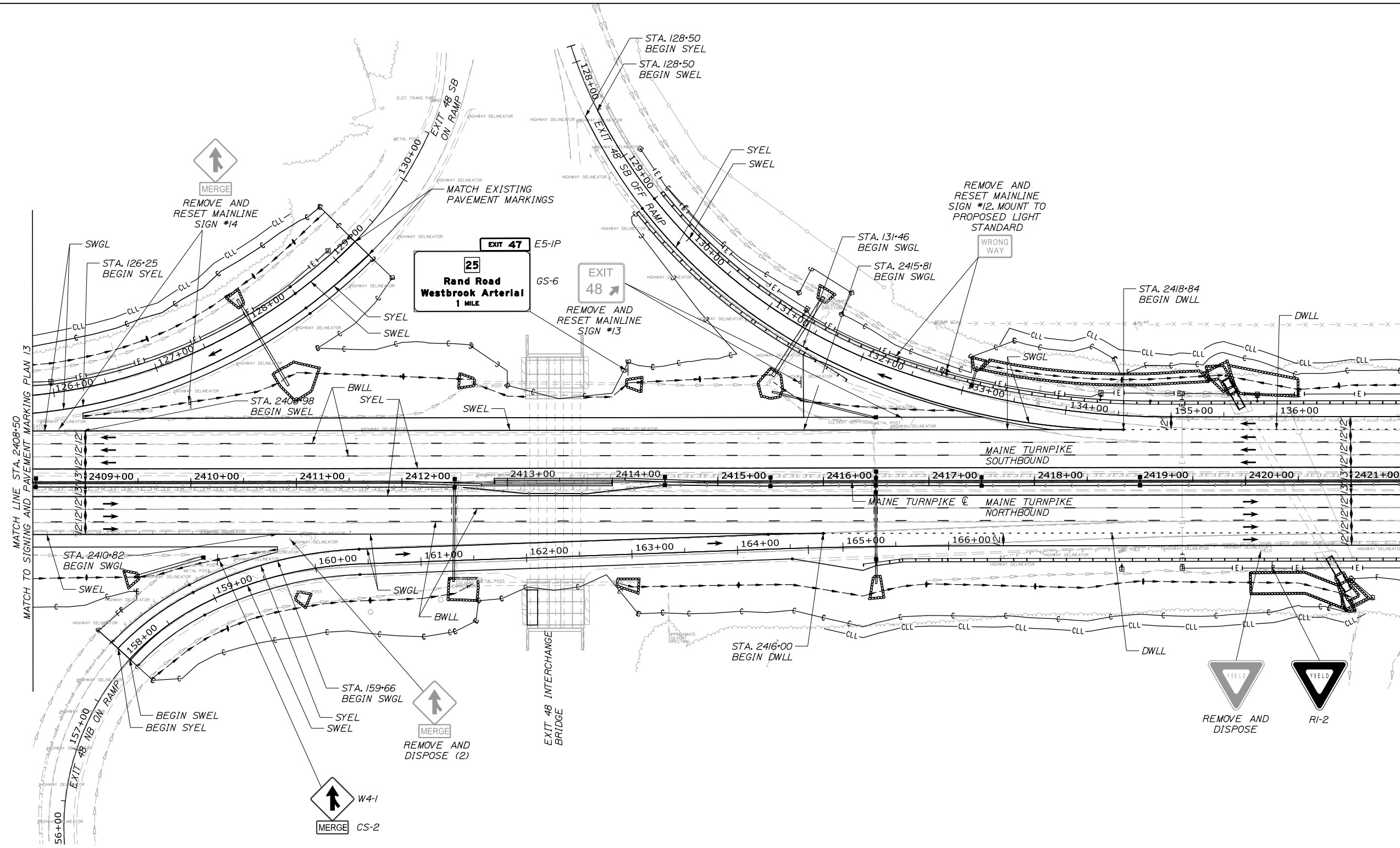
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(13 of 17)

SHEET NUMBER: SPM-13
CONTRACTS: 2021.08
99 OF 376



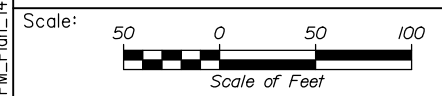
Date: 9/8/2021



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Filename: PAW2_SPM_Plan_14.dgn



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PORTLAND AREA WIDENING &
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MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(14 of 17)

No.	Revision	By	Date

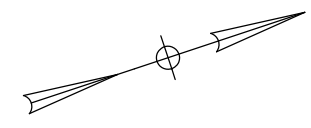
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By	Date	Checked
	PEM	09\21	SMA
Drawn	By	Date	In Charge of
	PEM	09\21	TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

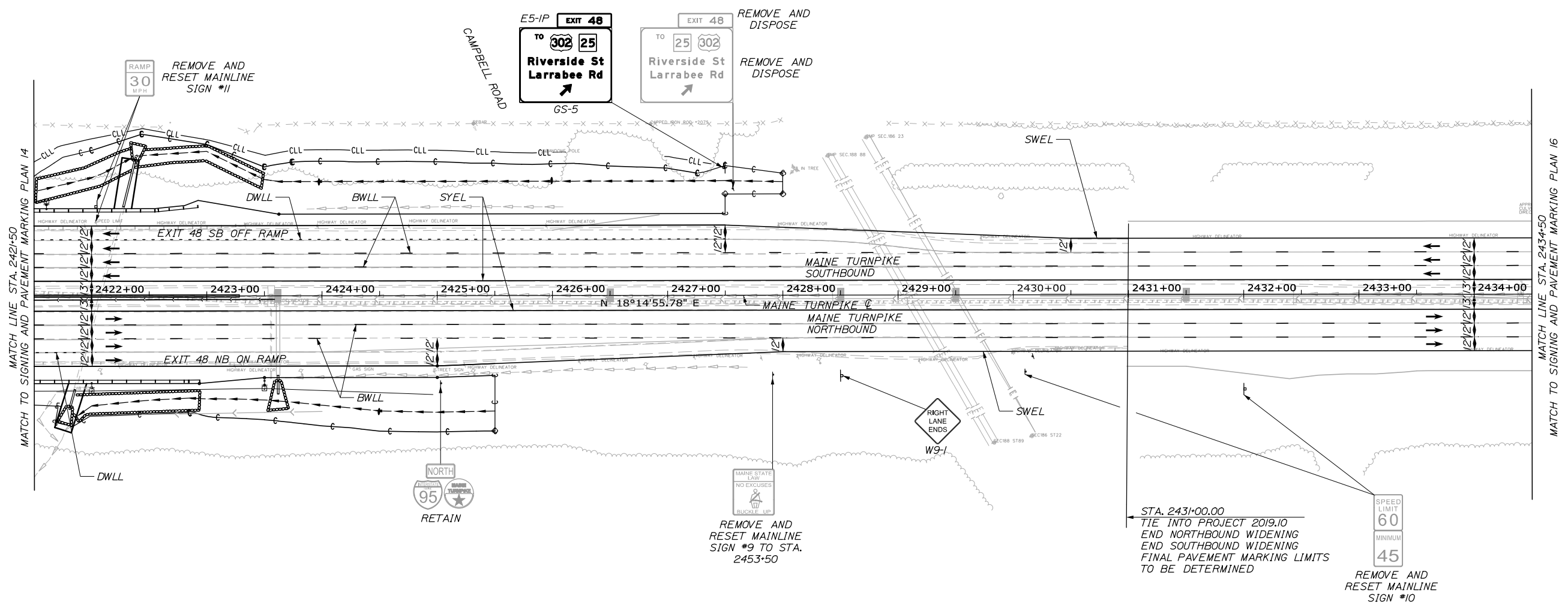
CONTRACTS: 2021.08

SHEET NUMBER: SPM-14

100 OF 376

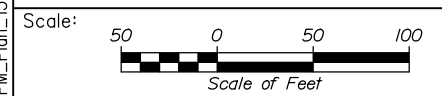


Date: 9/8/2021



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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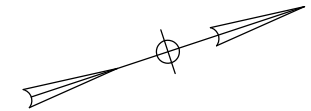
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

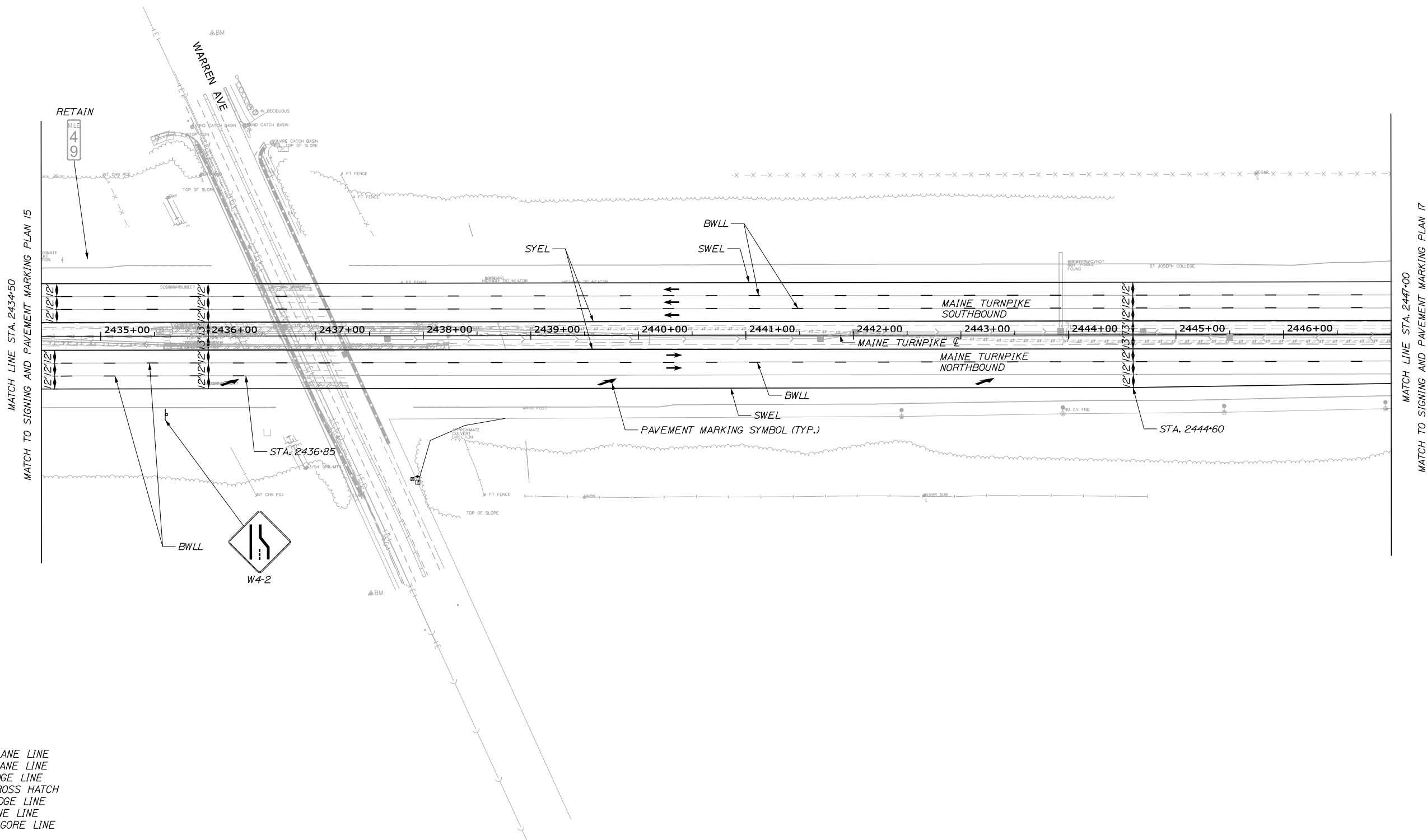
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
SIGNING AND PAVEMENT MARKING
(15 of 17)

SHEET NUMBER: SPM-15
CONTRACTS: 2021.08
101 OF 376

Filename: PAW2_SPM_Plan_15.dgn

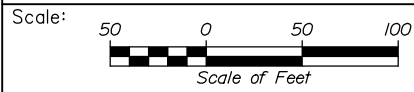


Date: 9/8/2021



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MEMORIAL HIGHWAY**

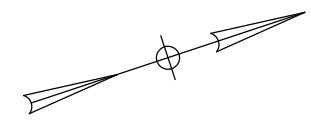
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 SIGNING AND PAVEMENT MARKING
 (16 of 17)

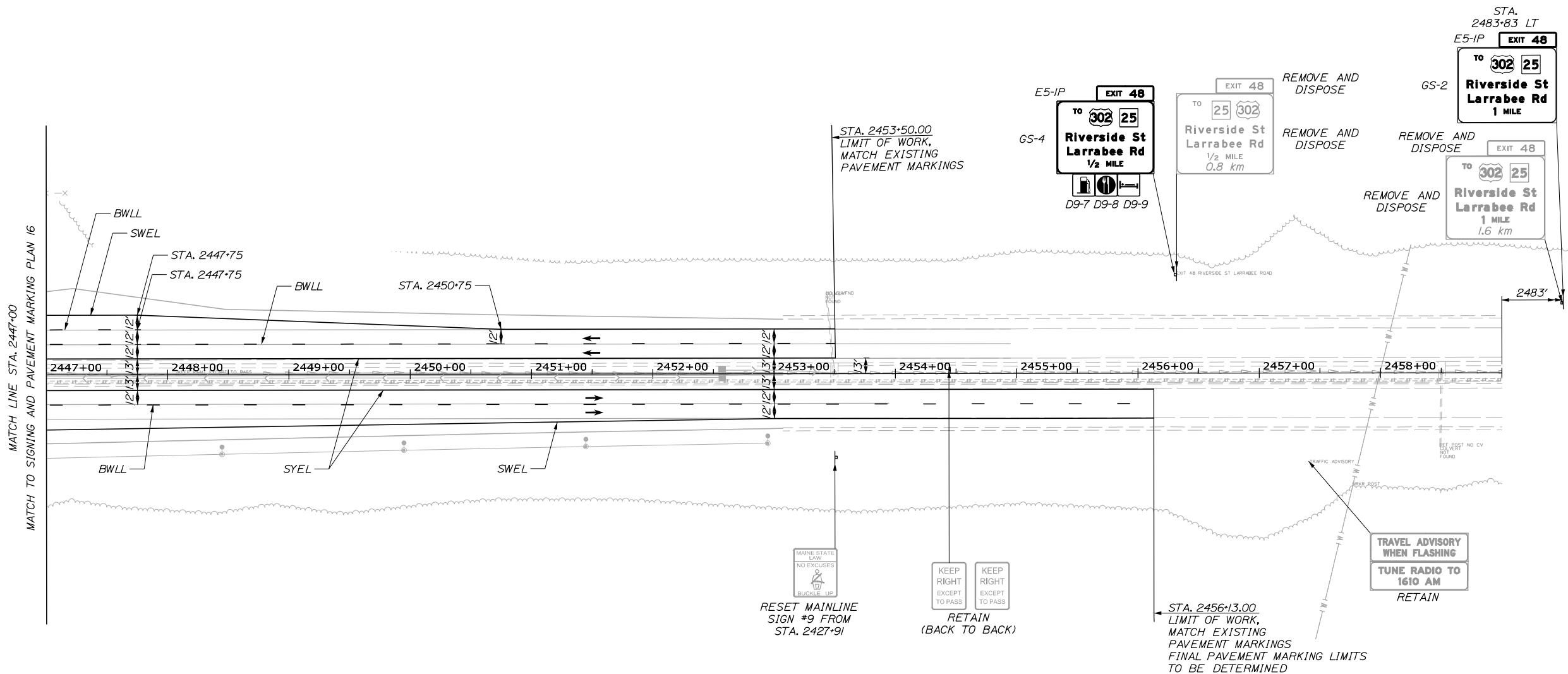
SHEET NUMBER: SPM-16
 102 OF 376

CONTRACTS: 2021.08

Filename: PAW2_SPM_Plan_16.dgn

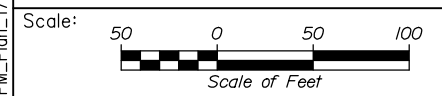


Date: 9/8/2021



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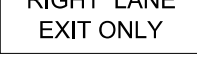



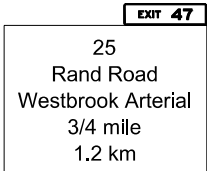


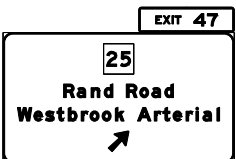


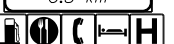
PORTLAND AREA WIDENING &
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 (17 of 17)










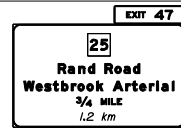

SHEET NUMBER: SPM-17
 103 OF 376

CONTRACTS: 2021.08

Filename: PAW2_SPM_Plan_17.dgn

REMOVE SIGN SUMMARY

DESCRIPTION	QUANTITY	DESCRIPTION	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	1	2 WOOD POSTS	NB	2257+50	73' RT	DISPOSE
	1	2 WOOD POSTS	NB	2270+00	75' RT	DISPOSE
	1	2 WOOD POSTS	NB	2260+50	70' RT	DISPOSE
	1	1 WOOD POSTS	NB	2299+24	71' RT	DISPOSE
	1	2 WOOD POSTS	NB	2303+62	0' RT	DISPOSE
	1	2 H-BEAM POSTS	NB	2314+68	80' RT	DISPOSE
	3					DISPOSE
	1	MOUNTED TO OVERHEAD SIGN STRUCTURE	NB	2336+50	19' RT	DISPOSE
	1	MOUNTED TO OVERHEAD SIGN STRUCTURE	NB	2336+50	57' RT	DISPOSE
	1	N/A	NB	2346+19	65' RT	DISPOSE
	1	2 H-BEAM POSTS	NB	2370+54	81' RT	DISPOSE
	5					DISPOSE

DESCRIPTION	QUANTITY	DESCRIPTION	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	1					DISPOSE
	1	2 H-BEAM POSTS	NB	2392+38	86' RT	DISPOSE
	1	1 WOOD POST	NB	2401+71	65' RT	DISPOSE
	1	1 H-BEAM POST	NB	2405+22	62' RT	DISPOSE
	2	1 WOOD POST	NB	2410+94	54' RT	DISPOSE
	1	1 WOOD POSTS	NB	2420+14	67' RT	DISPOSE
	1	3 H-BEAM POST	SB	2483+83	59' LT	DISPOSE
	1	2 H-BEAM POST	SB	2456+32	81' LT	DISPOSE
	1	2 H-BEAM POSTS	SB	2427+57	93' LT	DISPOSE
	1	3 H-BEAM POST	SB	2400+51	86' LT	DISPOSE
	1	1 WOOD POST	SB	2388+82	53' LT	DISPOSE


Date: 9/8/2021

Filename: PAW2_Sign_Summary.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	PEM	09\21	Checked	SMA	09\21
	PEM	09\21	In Charge of	TRC	09\21

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**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.


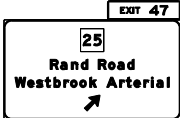



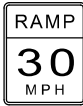

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
REMOVE AND DISPOSE
SIGN SUMMARY

SHEET NUMBER: SS-1

CONTRACT: 2021.08

104 OF 376

REMOVE SIGN SUMMARY

DESCRIPTION	QUANTITY	DESCRIPTION	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	1	3 H-BEAM POSTS	SB	2384+28	79' LT	DISPOSE
	1					DISPOSE
	3					DISPOSE
	1	3 H-BEAM POSTS	SB	2369+18	79' LT	DISPOSE
	1					DISPOSE
	2	1 H-BEAM POST	SB	2359+27	80' LT	DISPOSE
	1	3 H-BEAM POST	SB	2356+07	87' LT	DISPOSE
	1					DISPOSE
	1	3 H-BEAM POSTS	SB	2332+10	79' LT	DISPOSE
	1					DISPOSE
	4					DISPOSE
	1	1 WOOD POST	SB	2300+37	67' LT	DISPOSE
	2	1 H-BEAM POST	SB	2295+25	74' LT	DISPOSE


Date: 9/8/2021

Filename: PAW2_Sign_Summary.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	PEM	09\21	Checked	SMA	09\21
Drawn	PEM	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 340 County Road, Suite 6-C
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
REMOVE AND DISPOSE
SIGN SUMMARY

SHEET NUMBER: SS-2
CONTRACT: 2021.08
105 OF 376

REMOVE AND RESET SIGN SUMMARY

DESCRIPTION	QUANTITY	EXISTING								PROPOSED									
		APPROXIMATE SIGN SIZE			COLOR		DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)						
 R&R MAINLINE SIGN #1	1	72	48	24	YELLOW	BLACK	NB	2294+48	5' RT	1	W6X15	15.0	-	24" DIA.	YES	NB	2293+50	70' RT	645.501
 R&R MAINLINE SIGN #2	1	66	144	66	GREEN	WHITE	NB	2305+66	62' RT	2	W10X22	13.9	10.6	30" DIA.	YES	NB	2305+66	95' RT	645.502
 R&R MAINLINE SIGN #3	1	48	36	12	YELLOW	BLACK	NB	2343+97	78' RT	MOUNT TO PROPOSED LIGHT STANDARD					NB	2342+80	77' RT	645.503	
 R&R MAINLINE SIGN #4	1	36	36	9	YELLOW	BLACK	NB	2345+44	109' RT	MOUNT TO PROPOSED LIGHT STANDARD					NB	2345+76	121' RT	645.504	
 R&R MAINLINE SIGN #5	1	60	72	30	GREEN	WHITE	NB	2346+19	65' RT	1	W8X24	13.3	-	24" DIA.	YES	NB	2346+32	80' RT	645.505
 R&R MAINLINE SIGN #6	1	72	48	24	YELLOW	BLACK	NB	2353+46	52' RT	1	W6X15	13.9	-	24" DIA.	YES	NB	2353+46	70' RT	645.506
 R&R MAINLINE SIGN #7	1	60x60x60		10.93	WHITE	RED	NB	2357+58	68' RT	1	W6X9	12.8	-	18" DIA.	YES	NB	2357+00	80' RT	645.507
 R&R MAINLINE SIGN #9	1	60	48	20	WHITE	BLACK	NB	2427+91	69' RT	1	W6X15	13.9	-	24" DIA.	YES	NB	2453+50	69' RT	645.509
 R&R MAINLINE SIGN #10	1	108	48	36	WHITE	BLACK	NB	2430+10	67' RT	1	W8X24	19.6	-	24" DIA.	YES	NB	2432+00	80' RT	645.510
 R&R MAINLINE SIGN #11	1	48	36	12	YELLOW	BLACK	SB	2422+04	64' LT	1	W6X9	13.6	-	18" DIA.	YES	SB	2422+05	81' LT	645.511


Date: 9/8/2021

Filename: PAW2_Sign_Summary.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	09\21	Checked	SMA	09\21
Drawn	PEM	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.














PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
REMOVE AND RESET
SIGN SUMMARY

SHEET NUMBER: SS-3

CONTRACT: 2021.08

106 OF 376

REMOVE AND RESET SIGN SUMMARY

DESCRIPTION	QUANTITY	EXISTING								PROPOSED										
		APPROXIMATE SIGN SIZE			COLOR		DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)							
 R&R MAINLINE SIGN #12	1	30	42	8.75	RED	WHITE	SB	2416+68	119' LT	MOUNT TO PROPOSED LIGHT STANDARD				SB	2417+18	105' LT	645.512			
 R&R MAINLINE SIGN #13	1	60	72	30	GREEN	WHITE	SB	2416+75	60' LT	1	W8X24	12.9	-	24" DIA.	YES	SB	2415+79	94' LT	645.513	
 R&R MAINLINE SIGN #14	1	72	48	24	YELLOW	BLACK	SB	2408+76	51' LT	1	W6X15	13.5	-	24" DIA.	YES	SB	2410+00	75' LT	645.514	
 R&R MAINLINE SIGN #15	1	66	150	68.75	GREEN	WHITE	SB	2392+04	79' LT	2	W8X18	15.3	14.7	24" DIA.	YES	SB	2392+00	87' LT	645.515	
 R&R MAINLINE SIGN #16	1	48	36	12	YELLOW	BLACK	SB	2362+17	71' LT	MOUNT TO PROPOSED LIGHT STANDARD				SB	2363+30	77' LT	645.516			
 R&R MAINLINE SIGN #17	1	30	42	8.75	RED	WHITE	SB	2360+02	109' LT	MOUNT TO PROPOSED LIGHT STANDARD				SB	2359+04	154' LT	645.517			
 R&R MAINLINE SIGN #18	1	72	48	24	YELLOW	BLACK	SB	2355+40	52' LT	1	W6X15	16.2	-	24" DIA.	YES	SB	2355+40	71' LT	645.518	
 R&R MAINLINE SIGN #19	1	60x60x60		10.93	WHITE	RED	SB	2350+33	69' LT	1	W6X9	11.3	-	18" DIA.	YES	SB	2350+33	79' LT	645.519	
 R&R MAINLINE SIGN #20	1	96	48	32	YELLOW	BLACK	SB	2335+98	71' LT	1	W8X24	18.9	-	24" DIA.	YES	SB	2335+99	81' LT	645.520	PAYMENT FOR REMOVING AND RELOCATING SOLAR PANELS, ELECTRICAL RECONNECTION, AND FOUNDATIONS SHALL BE MADE UNDER ITEM 645.520
 R&R MAINLINE SIGN #21	1	30	42	8.75	RED	WHITE	NB	2403+87	69' RT	MOUNT TO PROPOSED LIGHT STANDARD				NB	2405+05	115' RT	645.521			
 R&R MAINLINE SIGN #22	1	30	42	8.75	RED	WHITE	SB	2295+42	120' LT	MOUNT TO PROPOSED LIGHT STANDARD				SB	2295+10	133' LT	645.522			
 R&R MAINLINE SIGN #23	1	36	36	9	YELLOW	BLACK	SB	2294+90	138' LT	MOUNT TO PROPOSED LIGHT STANDARD				SB	2295+10	144' LT	645.523			
 R&R MAINLINE SIGN #24	1	72	132	66	YELLOW	BLACK	NB	2252+20	76' RT	2	W8X18	15.3	16.4	24" DIA.	YES	NB	2408+00	70' RT	645.524	REMOVE AND RESET "RIGHT LANE EXIST ONLY AHEAD SIGN" AND INSTALL CS-5 PLAQUE AS SHOWN. PAYMENT FOR PLAQUE FABRICATION AND INSTALLATION SHALL BE INCIDENTAL TO ITEM 645.524

Date: 9/8/2021

Filename: PAW2_Sign_Summary.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	By	Date
Designed	PEM 09\21	Checked	SMA 09\21
Drawn	PEM 09\21	In Charge of	TRC 09\21

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
REMOVE AND RESET
SIGN SUMMARY

SHEET NUMBER: SS-4
CONTRACT: 2021.08
107 OF 376

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS	
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)								
CS-1		2	30	30	6.25 (12.5)	GREEN	WHITE			MOUNT BELOW GS-1 MOUNT BELOW GS-9					NB SB	2314+68 2332+10	92.5' RT 100' LT	645.271 645.271		
CS-2	MERGE	1	24	36	6	FLUORESCENT YELLOW	BLACK			MOUNT BELOW W4-1					NB	2410+25	73' RT	645.271		
CS-3		1	63	48	21	WHITE	BLACK	1	W6X15	-	15.5	-	24" DIA.	YES	SB	2375+50	71' LT	645.271		
CS-4	LOW FLYING AIRCRAFT	1	42	108	31.5	FLUORESCENT YELLOW	BLACK	2	W8X18	14.6	-	13.7	24" DIA.	YES	SB	2308+00	80' LT	645.271		
CS-5	ENDS 3600 FEET	1	36	108	27	FLUORESCENT YELLOW	BLACK	ATTACH PLAQUE TO REMOVE AND RESET SIGN *24								NB	2408+00	70' RT	645.524	INSTALL CS-5 PLAQUE ON REMOVE AND RESET SIGN NO. 24.
D9-7		5	30	30	6.25 (31.25)	GREEN	WHITE			MOUNT BELOW GS-1 MOUNT BELOW GS-4 MOUNT BELOW GS-7 MOUNT BELOW GS-9 MOUNT BELOW GS-4					NB NB SB SB SB	2314+68 2370+54 2387+00 2332+10 2456+32	92.5' RT 77' RT 87' LT 100' LT 75' LT	645.271 645.271 645.271 645.271 645.271		
D9-8		2	30	30	6.25 (12.5)	GREEN	WHITE			MOUNT BELOW GS-4 MOUNT BELOW GS-4					NB SB	2370+54 2456+32	77' RT 75' LT	645.271 645.271		
D9-9		5	30	30	6.25 (31.25)	GREEN	WHITE			MOUNT BELOW GS-1 MOUNT BELOW GS-4 MOUNT BELOW GS-7 MOUNT BELOW GS-9 MOUNT BELOW GS-4					NB NB SB SB SB	2314+68 2370+54 2387+00 2332+10 2456+32	92.5' RT 77' RT 87' LT 100' LT 75' LT	645.271 645.271 645.271 645.271 645.271		
E5-1a (46)	EXIT 46	1	60	78	32.5	GREEN	WHITE	1	W8X24	-	13.0	-	24" DIA.	YES	SB	2294+76	80' LT	645.251		
E5-1a (47)	EXIT 47	1	60	78	32.5	GREEN	WHITE	1	W8X24	-	13.0	-	24" DIA.	YES	SB	2358+89	98' LT	645.251		
E5-1a (48)	EXIT 48	1	60	78	32.5	GREEN	WHITE	1	W8X24	-	13.0	-	24" DIA.	YES	NB	2406+25	101' RT	645.251		
E5-1P (46)	EXIT 46	2	30	114	23.75 (47.5)	GREEN	WHITE			MOUNT ABOVE GS-8 MOUNT ABOVE GS-9					SB SB	2356+06 2332+10	77' LT 100' LT	645.251 645.251		
E5-1P (47)	EXIT 47	5	30	114	23.75 (118.75)	GREEN	WHITE			MOUNT ABOVE GS-1 MOUNT ABOVE GS-3 MOUNT ABOVE GS-6 MOUNT ABOVE GS-7 MOUNT ABOVE GS-3					NB NB SB SB SB	2314+68 2336+50 2414+25 2387+00 2369+18	92.5' RT 57' RT 106' LT 87' LT 80.5' LT	645.251 645.251 645.251 645.251 645.251		
E5-1P (48)	EXIT 48	6	30	114	23.75 (142.5)	GREEN	WHITE			MOUNT ABOVE GS-2 MOUNT ABOVE GS-4 MOUNT ABOVE GS-5 MOUNT ABOVE GS-2 MOUNT ABOVE GS-4 MOUNT ABOVE GS-5					NB NB NB SB SB SB	2336+50 2370+54 2394+50 2483+83 2456+32 2427+50	19' RT 77' RT 103' RT 61' LT 75' LT 110' LT	645.251 645.251 645.251 645.251 645.251 645.251		
GS-1	25 Rand Road Westbrook Arterial 3/4 MILE	1	144	276	276	GREEN	WHITE	3	W12X26	23.4	19.9	16.0	36" DIA.	YES	NB	2314+68	92.5' RT	645.251		
GS-2	TO 302 25 Riverside St Larrabee Rd 1 MILE	2	144	192 (384)	GREEN	WHITE	MOUNT TO EXISTING SIGN BRIDGE WITH 2' OFFSET FROM GS-3 SIGN								NB	2336+50	19' RT	645.251		
							3	W10X22	28.9	26.1	23.4	30" DIA.	YES	SB	2483+83	61' LT	645.251			

NOTE:

SIGN COLOR AND LEGEND DESIGN SHALL CONFORM TO THESE PLANS, SPECIFICATIONS AND MUTCD REQUIREMENTS.

Filename: PAW2_Sign_Summary.dgn

Scale: NOT TO SCALE		Designed by:				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		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 46.4 TO MM 49.3 PROPOSED SIGN SUMMARY					
<table border="1"> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		No.	Revision													By	Date
No.	Revision	By	Date														
<table border="1"> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> <tr> <td>Designed</td> <td>PEM 09\21</td> <td>Checked</td> <td>SMA 09\21</td> </tr> <tr> <td>Drawn</td> <td>PEM 09\21</td> <td>In Charge of</td> <td>TRC 09\21</td> </tr> </table>		By	Date	By	Date	Designed	PEM 09\21	Checked	SMA 09\21	Drawn	PEM 09\21	In Charge of	TRC 09\21	MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.		108 OF 376	
By	Date	By	Date														
Designed	PEM 09\21	Checked	SMA 09\21														
Drawn	PEM 09\21	In Charge of	TRC 09\21														

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS				
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)											
GS-3		2	156	276	299 (598)	GREEN	WHITE	MOUNT TO EXISTING SIGN BRIDGE CENTERED OVER RIGHT SOLID WHITE LANE LINE											NB	2336+50	57' RT	645.251	
								3	W14X30	31.8	28.0	24.1	36" DIA.	YES	SB	2369+18	80.5' LT	645.251					
GS-4		2	144	192	192 (384)	GREEN	WHITE	2	W14X30	22.8	-	27.6	36" DIA. 36" DIA.	YES YES	NB SB	2370+54 2456+32	77' RT 75' LT	645.251 645.251					
										24.9	-	24.9											
GS-5		2	156	192	208 (416)	GREEN	WHITE	2	W14X30	23.3	-	18.5	36" DIA. 36" DIA.	YES YES	NB SB	2394+50 2427+50	103' RT 110' LT	645.251 645.251					
										21.9	-	24.1											
GS-6		1	144	276	276	GREEN	WHITE	3	W12X26	18.5	20.3	22.5	36" DIA.	YES	SB	2414+15	106' LT	645.251					
GS-7		1	144	276	276	GREEN	WHITE	3	W14X30	22.6	21.9	21.3	36" DIA.	YES	SB	2387+00	87' LT	645.251					
GS-8		1	144	186	186	GREEN	WHITE	2	W12X26	22.4	-	22.9	36" DIA.	YES	SB	2356+06	77' LT	645.251					
GS-9		1	144	186	186	GREEN	WHITE	2	W12X26	18.6	-	23.1	36" DIA.	YES	SB	2332+10	100' LT	645.251					
I-5		2	30	30	6.25 (12.5)	GREEN	WHITE	MOUNT BELOW E5-1a (46) MOUNT BELOW GS-8						SB SB	2356+06 2294+76	77' LT 80' LT	645.271 645.271						
MTA-1		1	36	36	9	GREEN	WHITE	1	W8X24	-	15.1	-	24" DIA.	YES	SB	2342+00	78' LT	645.271					
MTA-2		1	36	36	9	BLUE	WHITE	MOUNT ADJACENT TO MTA-1						SB	2342+00	78' LT	645.271						
M3-3		1	18	36	4.5	BLUE	WHITE	MOUNT ABOVE MTA-1						SB	2342+00	78' LT	645.271						

NOTE:

SIGN COLOR AND LEGEND DESIGN SHALL CONFORM TO THESE PLANS, SPECIFICATIONS AND MUTCD REQUIREMENTS.

Filename: PAW2_Sign_Summary.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	PEM	09\21	Checked	SMA	09\21
	PEM	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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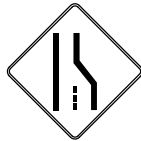

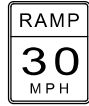
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
PROPOSED
SIGN SUMMARY

SHEET NUMBER: SS-6
CONTRACT: 2021.08
109 OF 376

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS	
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)								
RI-2		3	60X60X60			10.82 (32.46)	RED	WHITE	1	W6X9	-	12.2 13.6	-	18" DIA. 18" DIA. 18" DIA.	YES YES YES	NB NB SB	2299+24 2420+25 2400+00	79' RT 81' RT 79' LT	645.271 645.271 645.271	
W4-1		1	48	48	16	FLUORESCENT YELLOW	BLACK	1	W6X9	-	13.6	-	18" DIA.	YES	NB	2410+25	73' RT	645.271		
W4-2		1	48	48	16	FLUORESCENT YELLOW	BLACK	1	W6X9	-	15.3	-	18" DIA.	YES	NB	2435+60	73' RT	645.271		
W9-1		1	48	48	16	FLUORESCENT YELLOW	BLACK	1	W6X9	-	13.3	-	18" DIA.	YES	NB	2428+50	70' RT	645.271		
W13-3		2	48	36	12 (24)	FLUORESCENT YELLOW	BLACK	MOUNT TO PROPOSED LIGHT STANDARD						NB	2400+66	77' RT	645.271			
								1	W6X9	-	12.8	-	18" DIA.						YES	SB

Date: 9/8/2021


NOTE:

SIGN COLOR AND LEGEND DESIGN SHALL CONFORM TO THESE PLANS, SPECIFICATIONS AND MUTCD REQUIREMENTS.

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	PEM	09\21	Checked	SMA	09\21
Drawn	PEM	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 PROPOSED
 SIGN SUMMARY

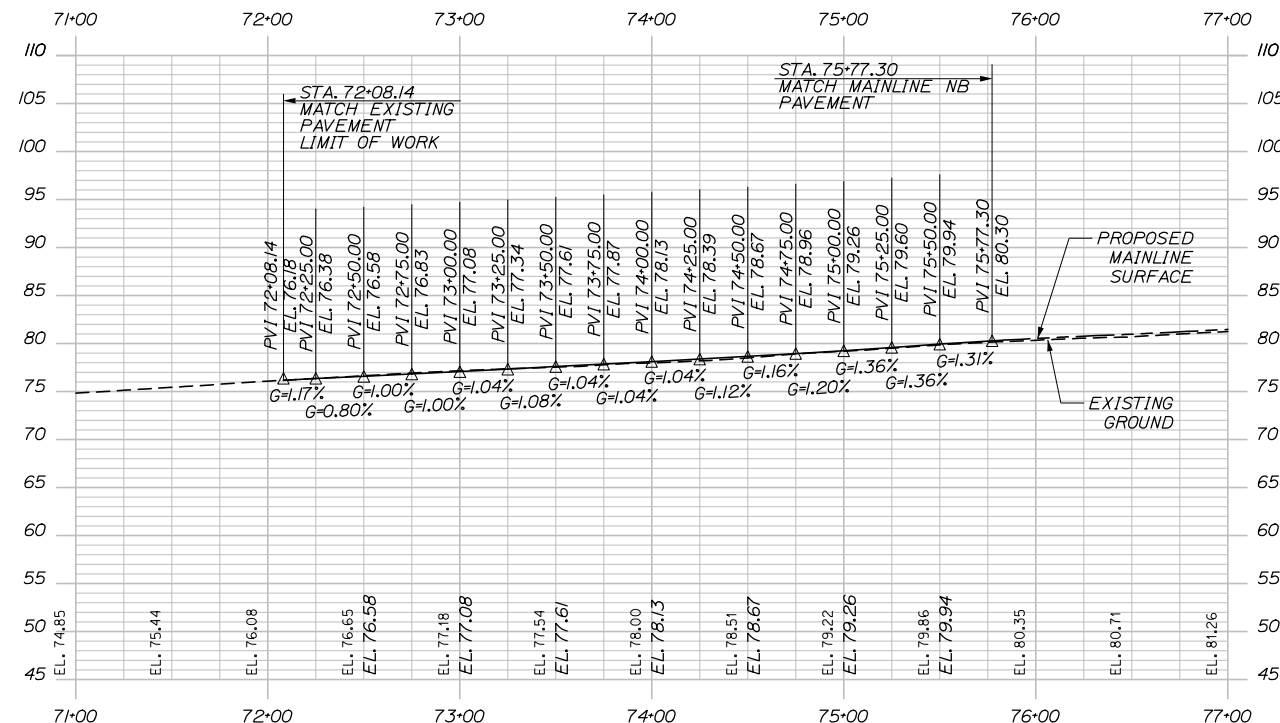
SHEET NUMBER: SS-7

CONTRACT: 2021.08

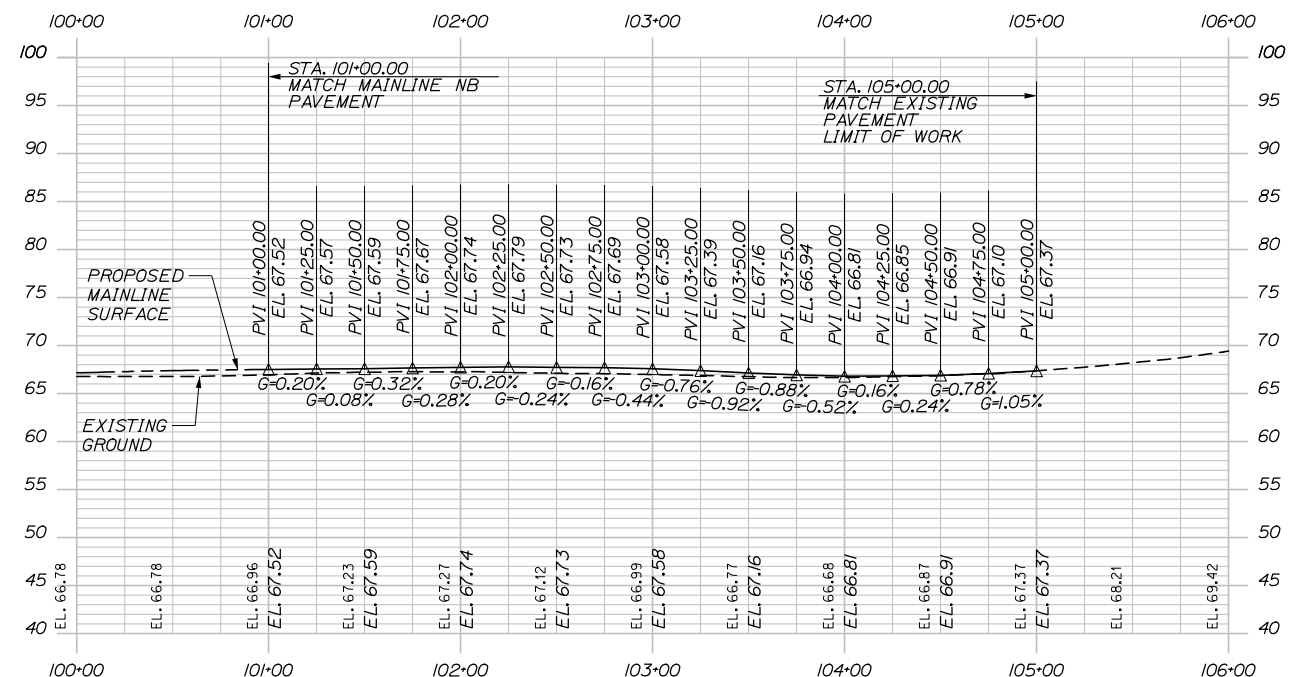
110 OF 376

Filename: PAW2_Sign_Summary.dgn

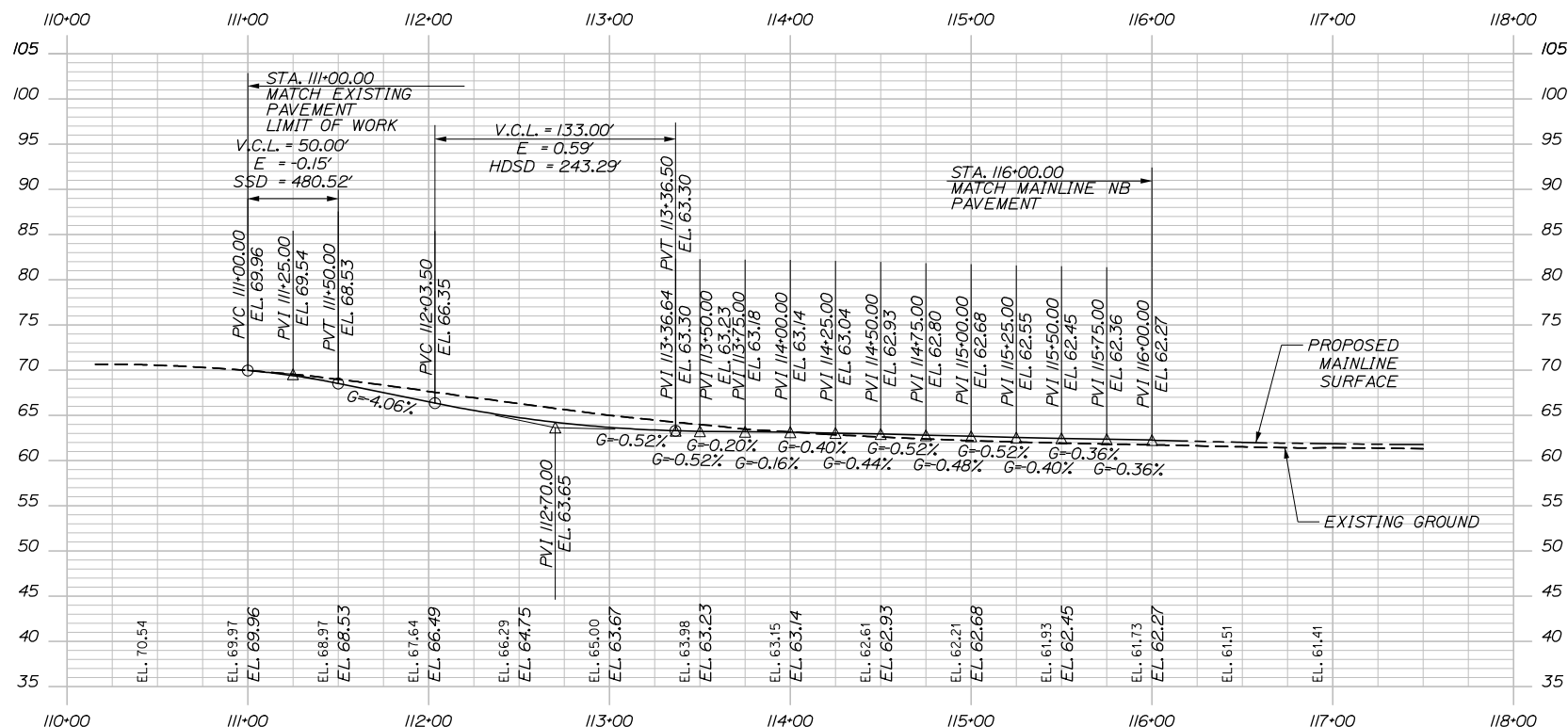
Date: 9/8/2021



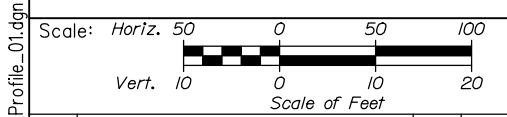
46 NB ON RAMP PROFILE



47 NB OFF RAMP PROFILE



47 NB ON RAMP PROFILE



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

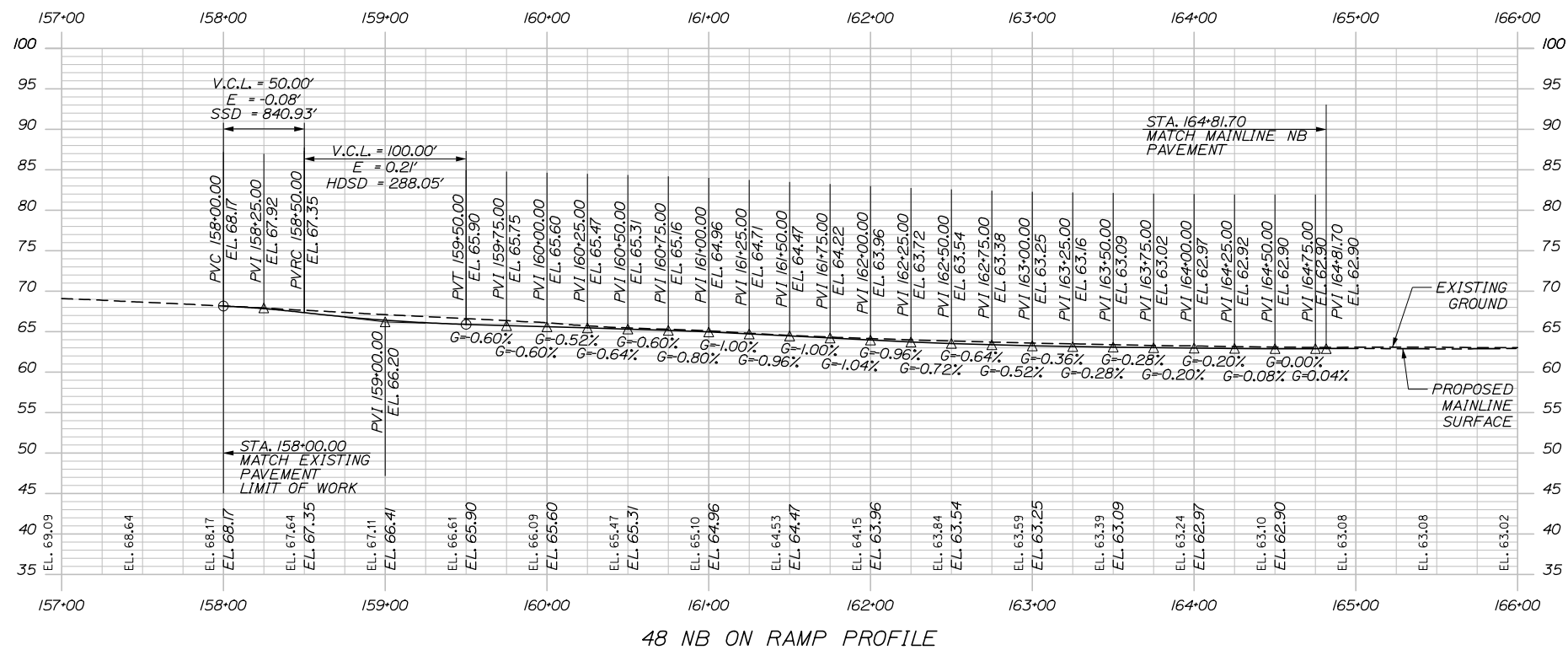
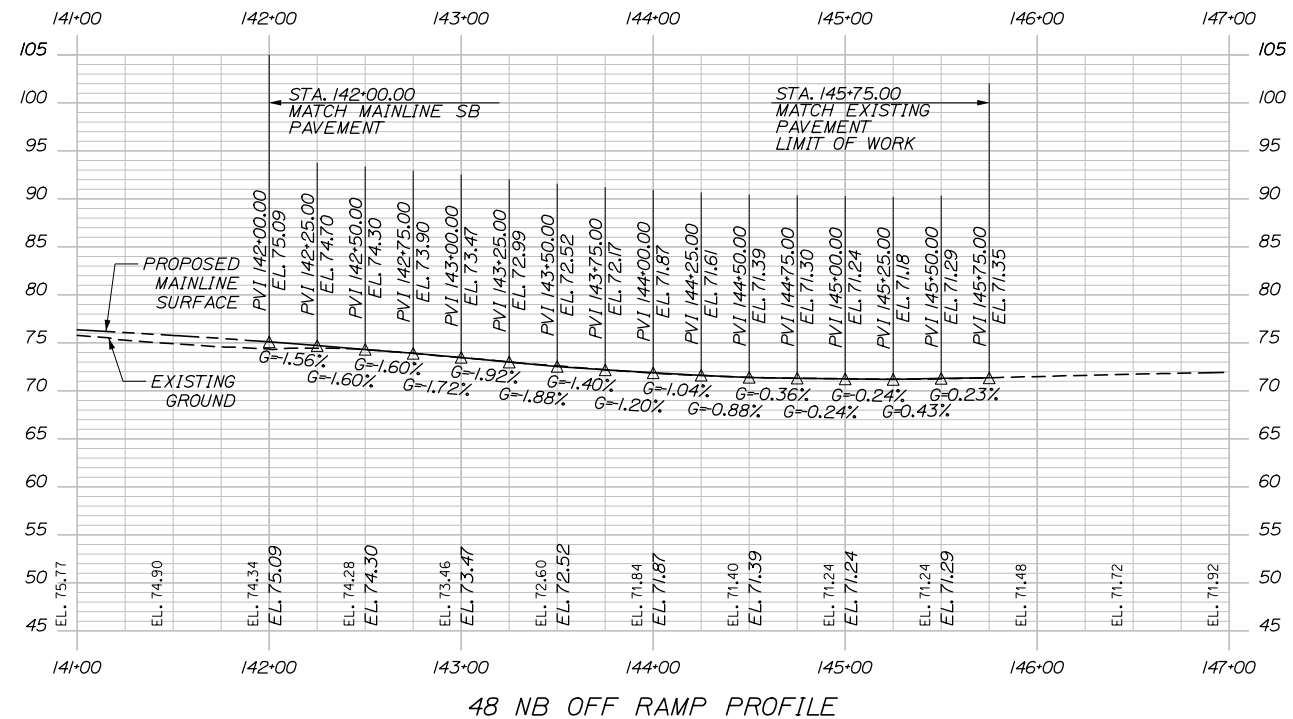
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
PROFILE (1 OF 5)

SHEET NUMBER: PR-01
CONTRACT: 2021.08
111 OF 376

Filename: PAW2_Profile_01.dgn

Date: 9/8/2021



Scale: Horiz. 50 0 50 100
Vert. 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	AP	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

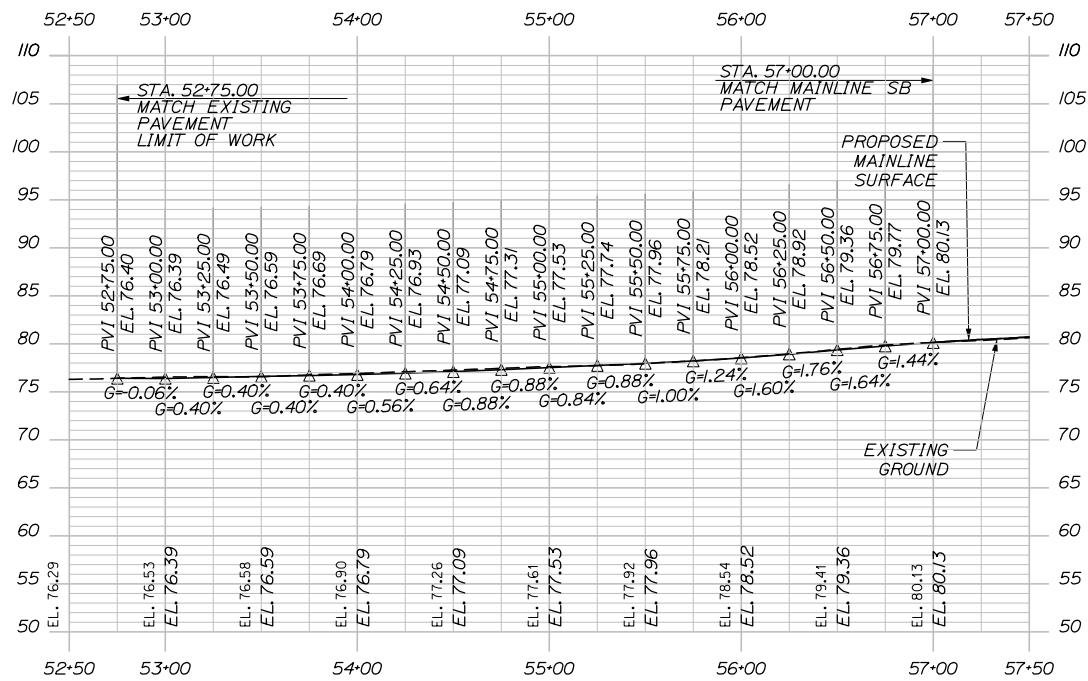
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

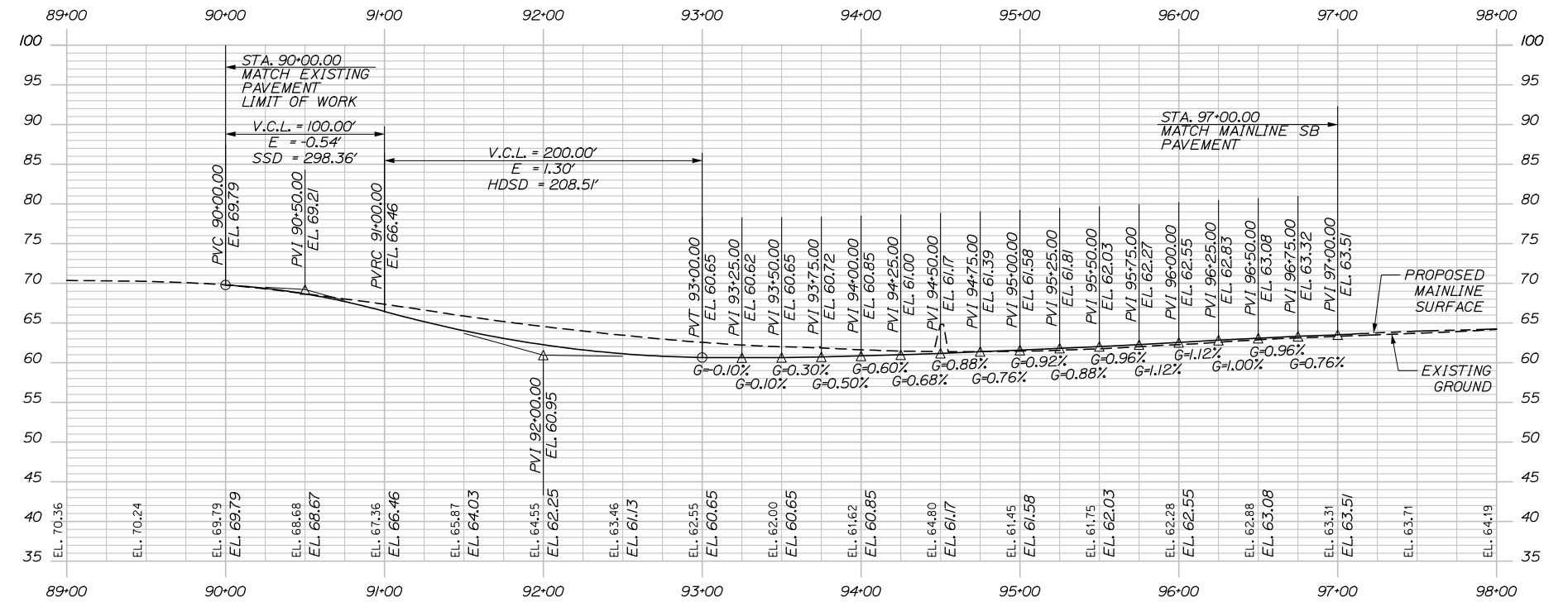
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
PROFILE (2 OF 5)

SHEET NUMBER: PR-02
CONTRACT: 2021.08
112 OF 376

Date: 9/8/2021



46 SB OFF RAMP PROFILE



47 SB OFF RAMP PROFILE

Filename: PAW2_Profile_03.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
PROFILE (3 OF 5)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By	Date	Checked
	JS	09\21	PJS 09\21
Drawn	By	Date	In Charge of
	GW	09\21	TRC 09\21

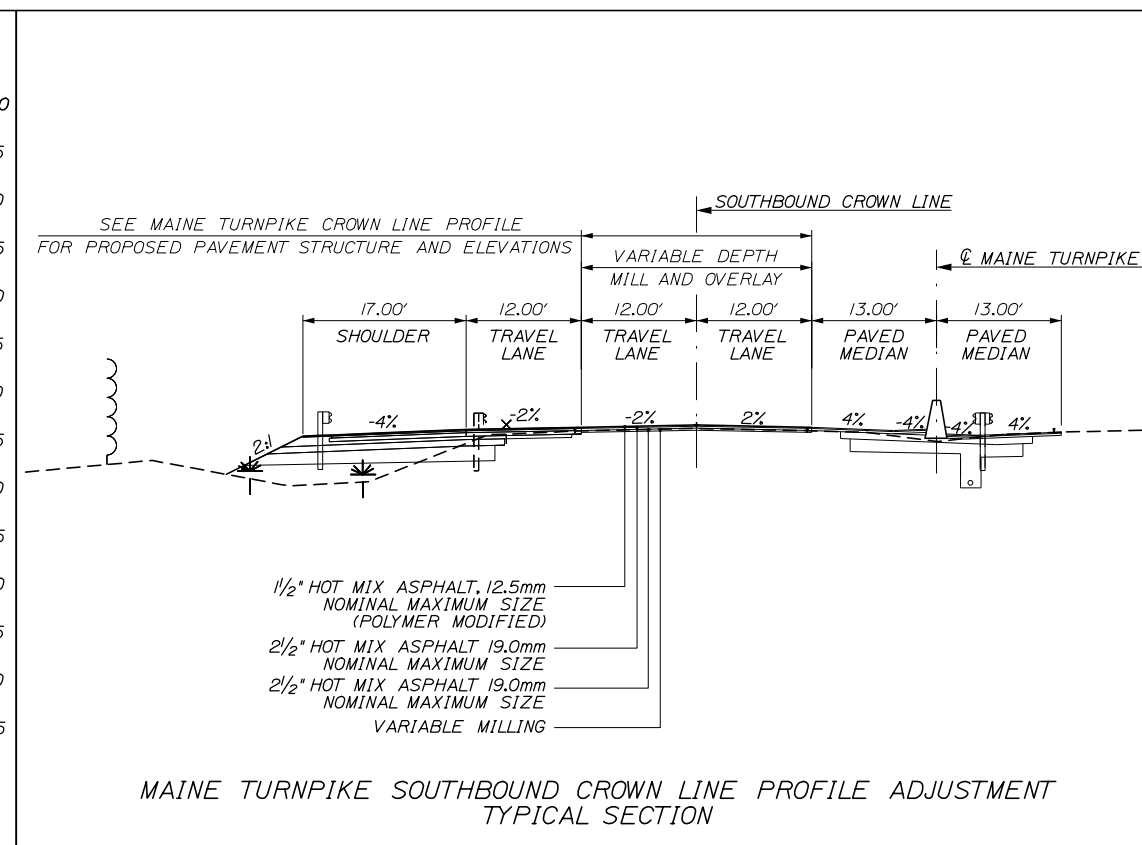
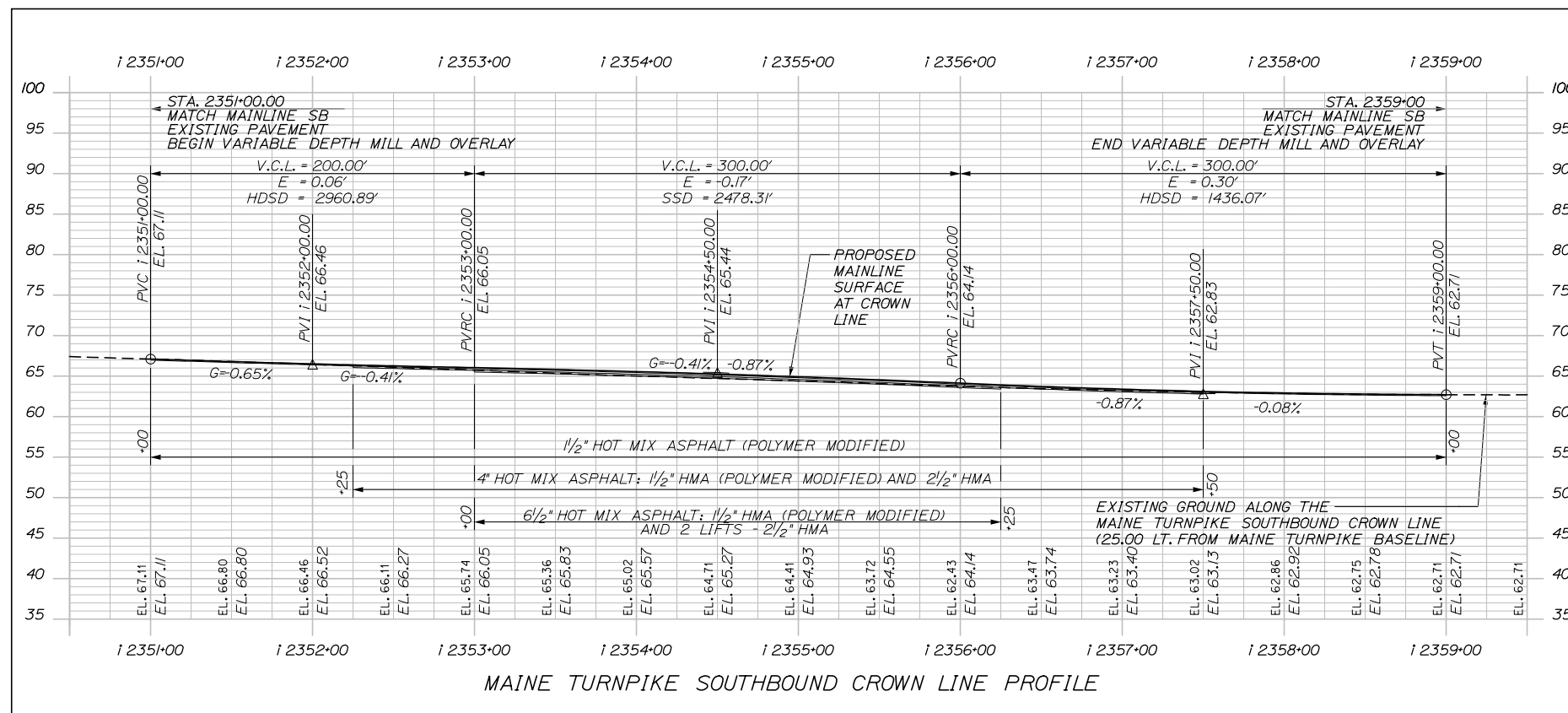
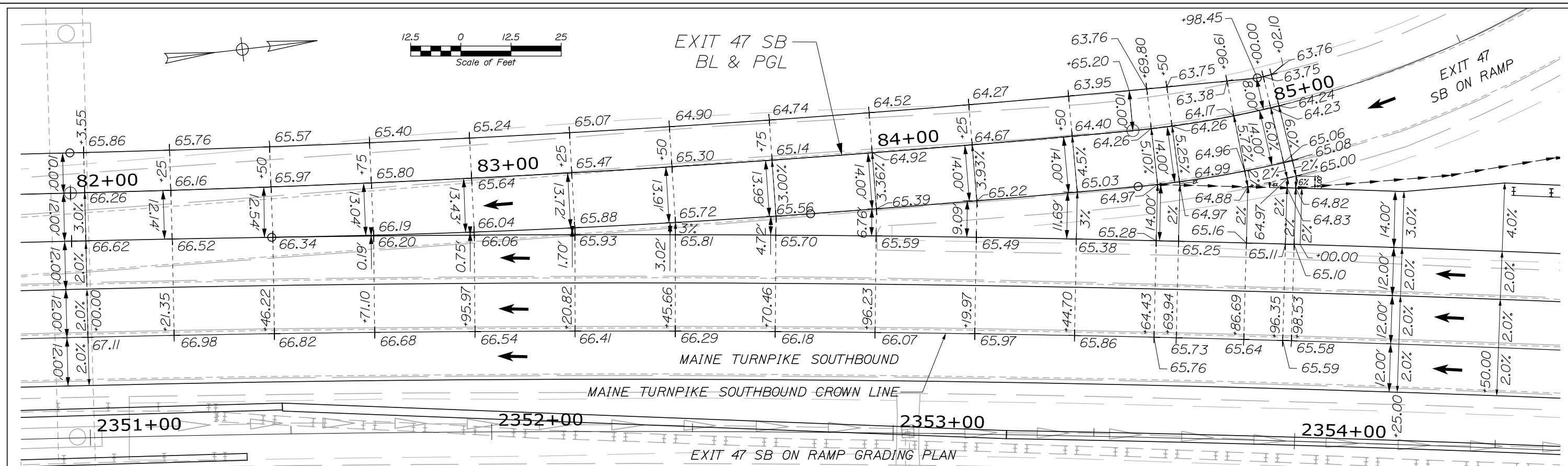
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: PR-03

113 OF 376

Date: 9/8/2021



Filename: PAW2_SB47ON-RAMP_GRADING

Scale: Horiz. 50 0 50 100
Vert. 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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FAX (207) 228-0909

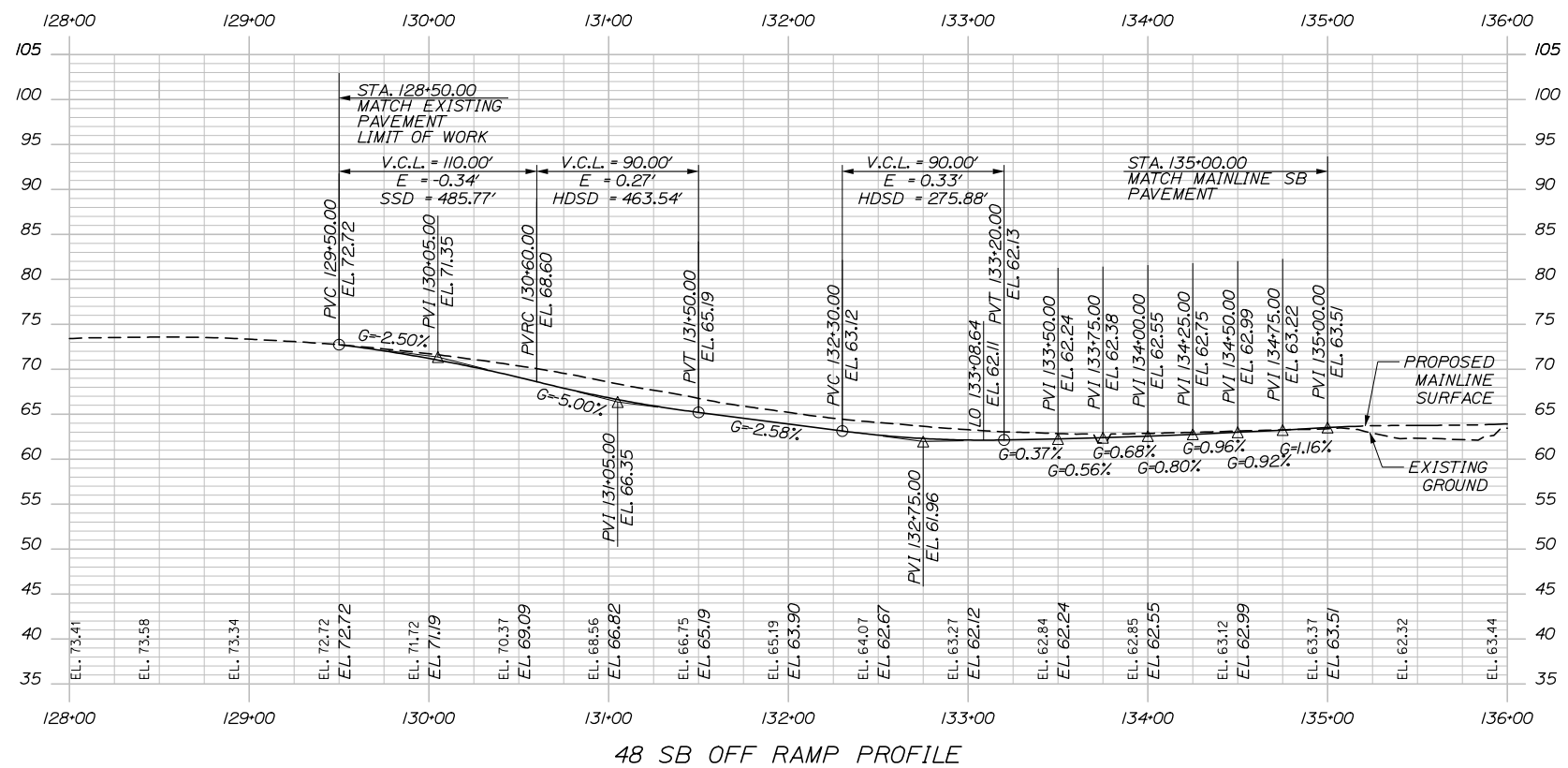
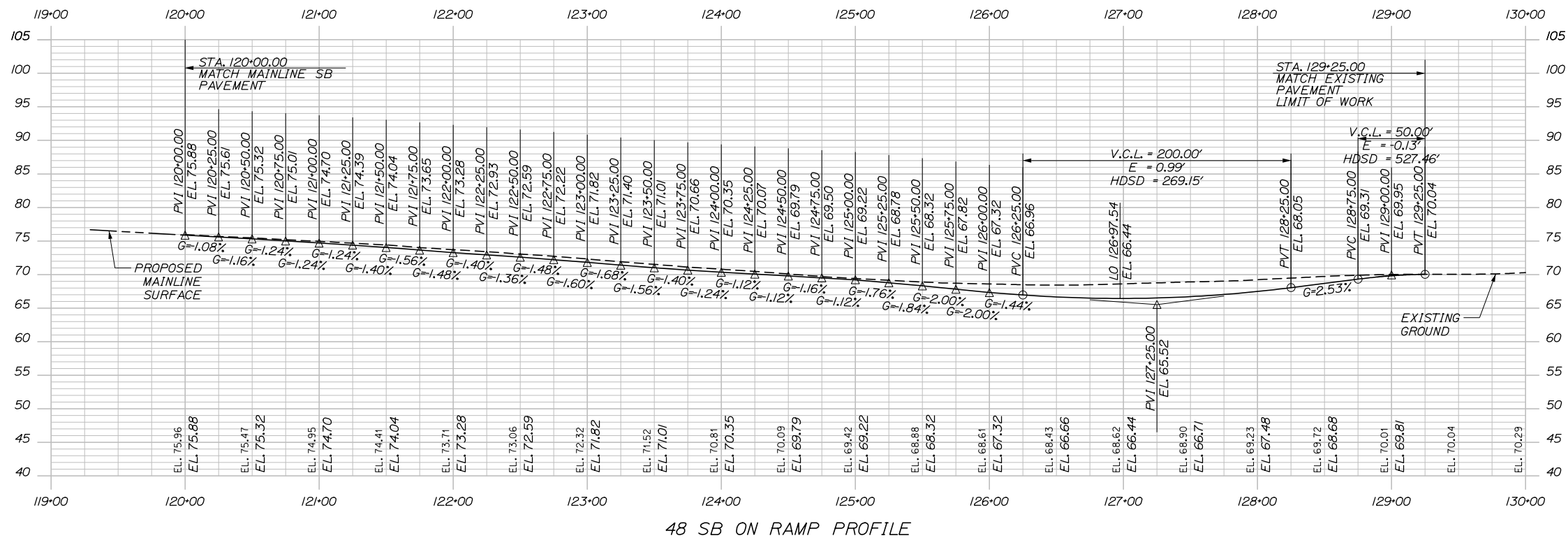
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE SOUTHBOUND CROWN LINE PROFILE AND RAMP SB 47 ON GRADING
SHEET NUMBER: PR-04
CONTRACT: 2021.08
114 OF 376

Date: 9/8/2021



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 PROFILE (5 OF 5)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS
Drawn	By GW	Date 09\21	In Charge of TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

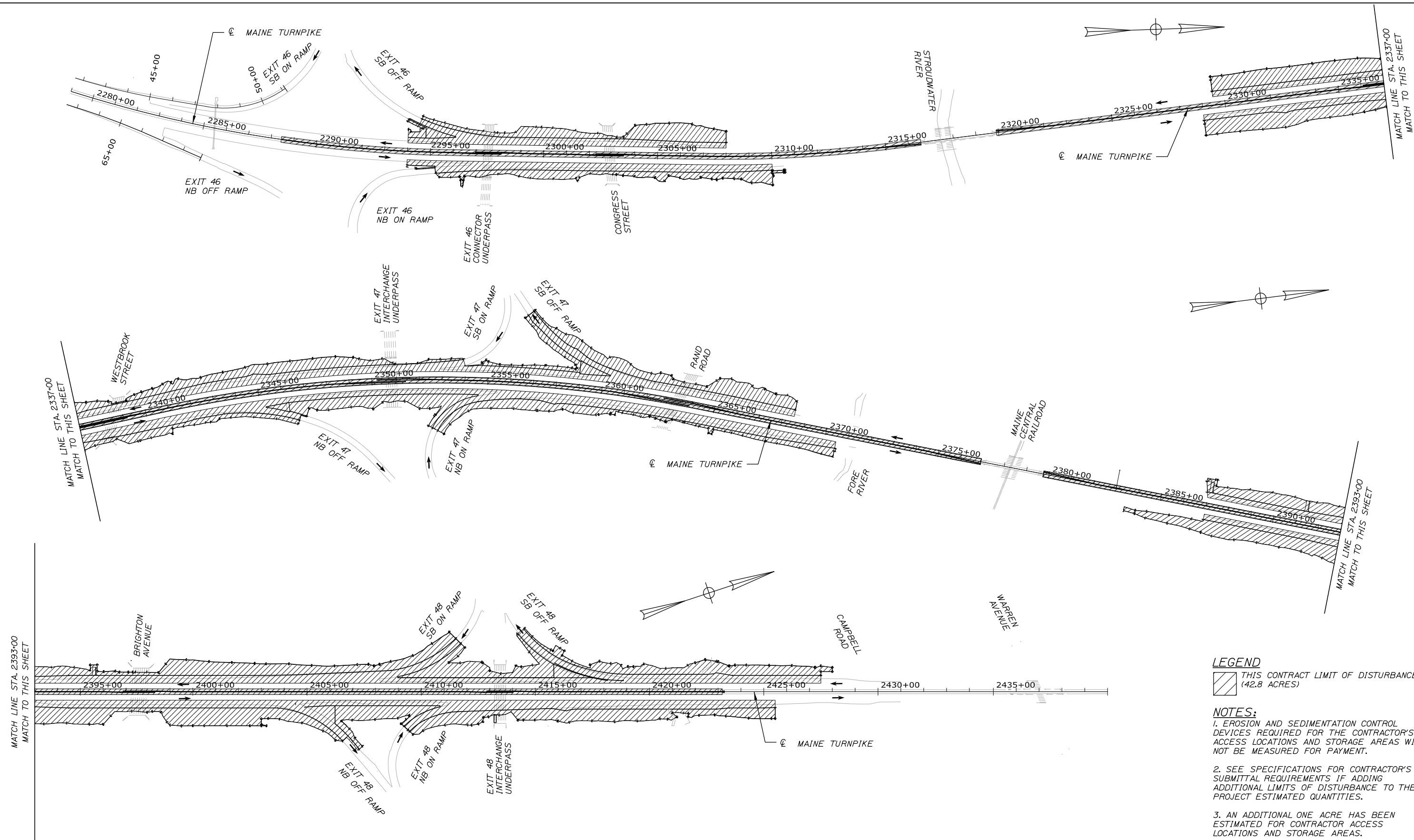
CONTRACT: 2021.08

SHEET NUMBER: PR-05

115 OF 376

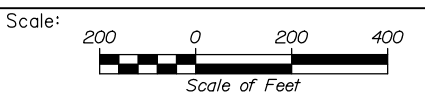
Date: 9/8/2021

Filename: PAW2_LOD_Plan_01.dgn



LEGEND
 THIS CONTRACT LIMIT OF DISTURBANCE (42.8 ACRES)

NOTES:
 1. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
 2. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
 3. AN ADDITIONAL ONE ACRE HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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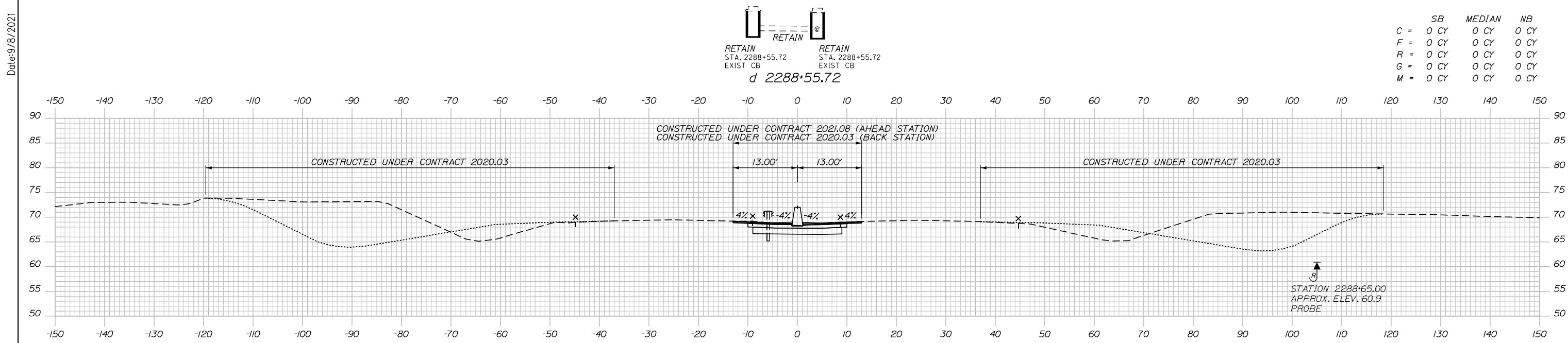
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

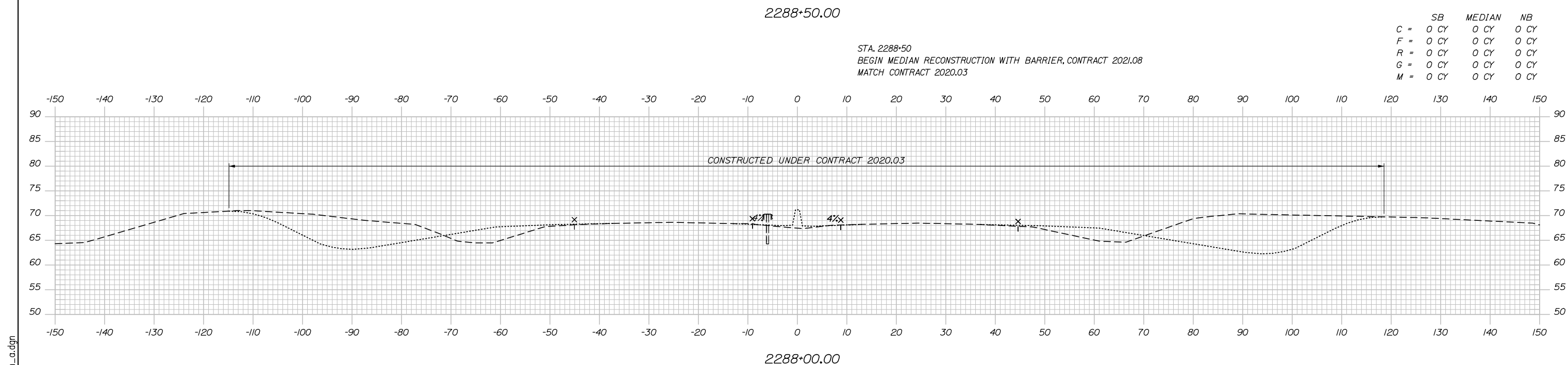
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 LIMIT OF DISTURBANCE

SHEET NUMBER: LOD-01
 CONTRACT: 2021.08
 116 OF 376

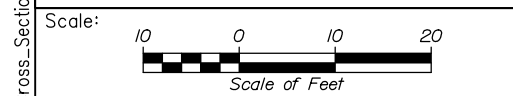
Date: 9/8/2021



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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C =	0 CY	0 CY	0 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

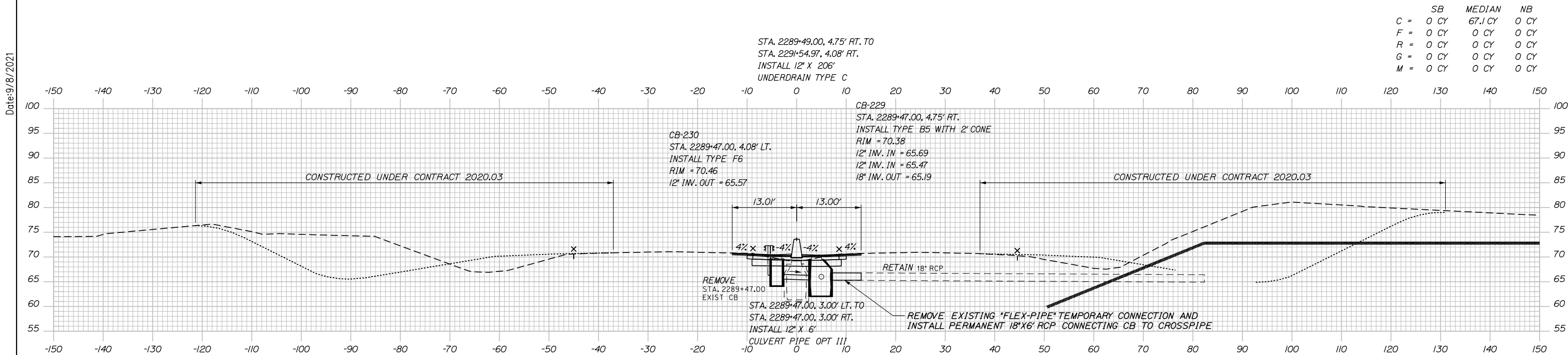
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2288+00 TO STA. d 2288+50

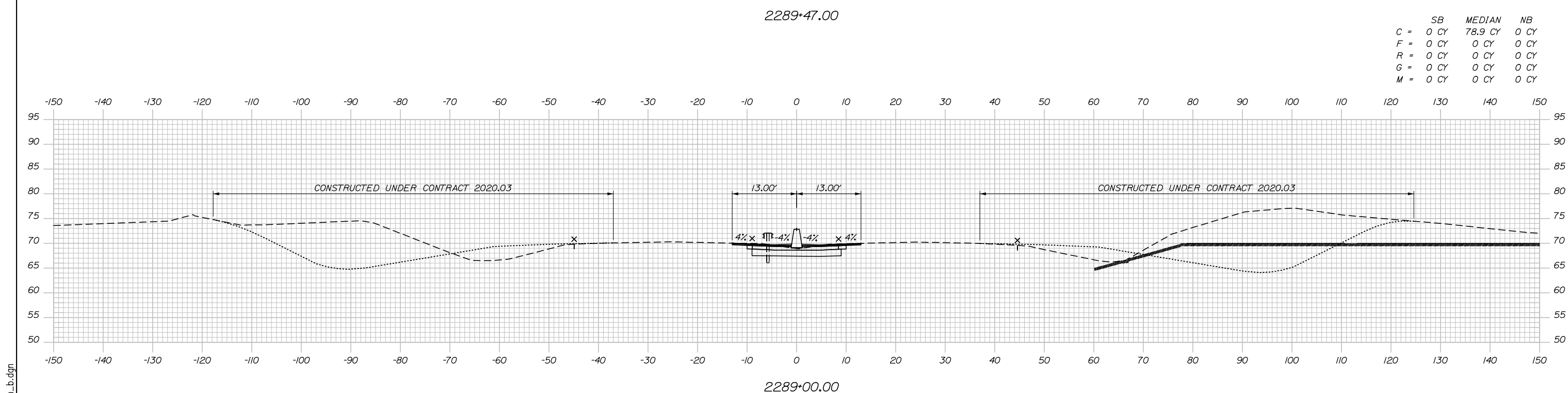
SHEET NUMBER:
 CONTRACT: 2021.08
 117 OF 376

Filename: PAW2_Cross_Section_a.dgn

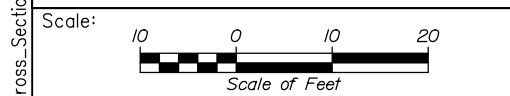
Date: 9/8/2021



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G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
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 FAX (207) 228-0909

MAINE TURNPIKE

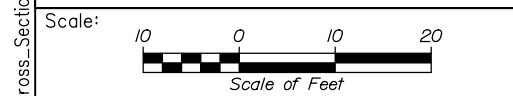
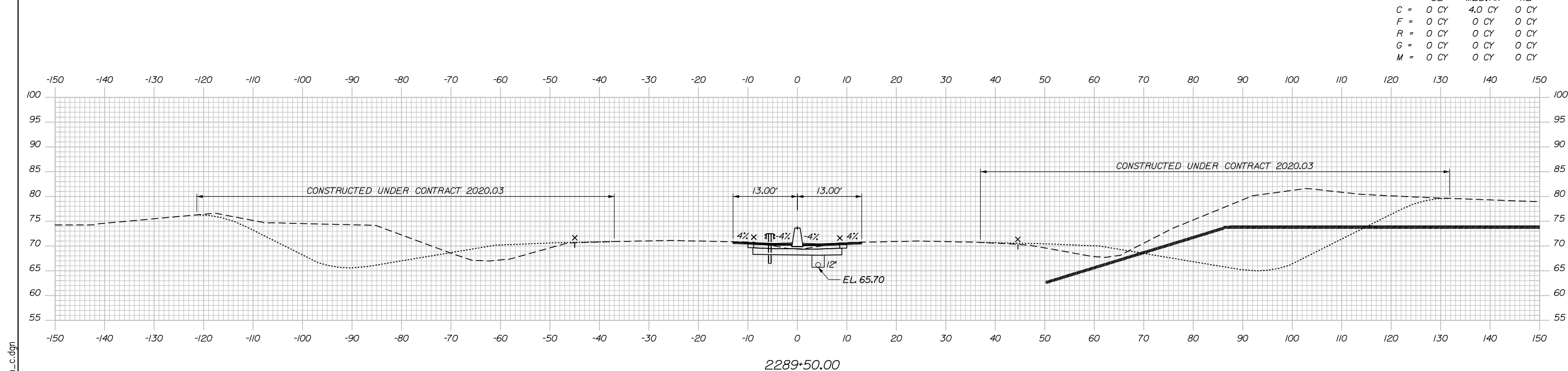
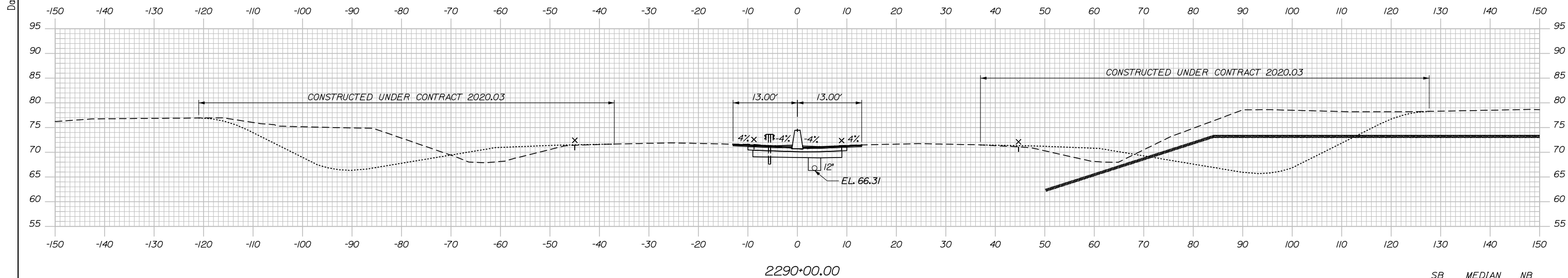
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2289+00 TO STA. d 2289+47
 SHEET NUMBER:
 CONTRACT: 2021.08 118 OF 376

Filename: PAW2_Cross_Section_b.dgn

Date: 9/8/2021



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

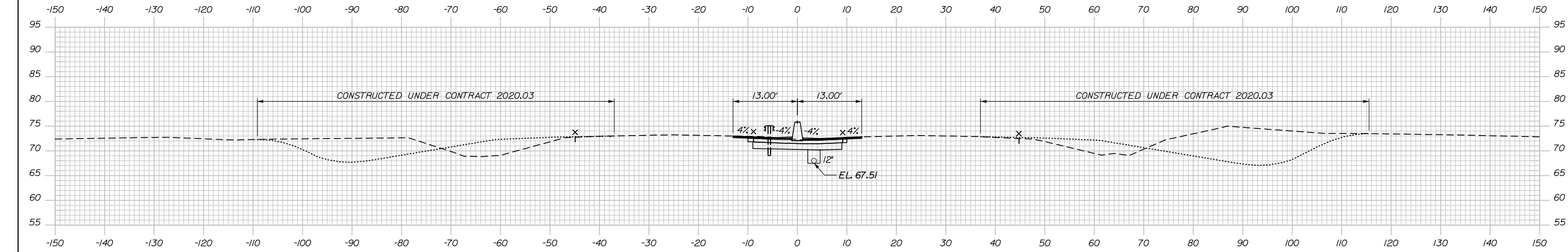
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. d 2289+50 TO STA. d 2290+00

SHEET NUMBER:
119 OF 376

CONTRACT: 2021.08

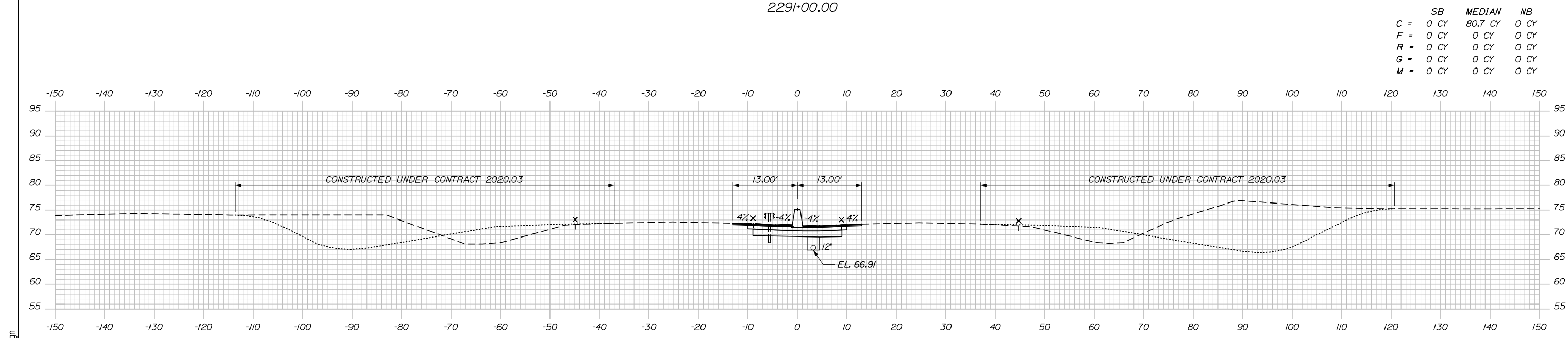
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Date: 9/8/2021



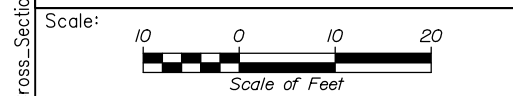
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G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY

2291+00.00



	SB	MEDIAN	NB
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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY

2290+50.00




Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	JS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

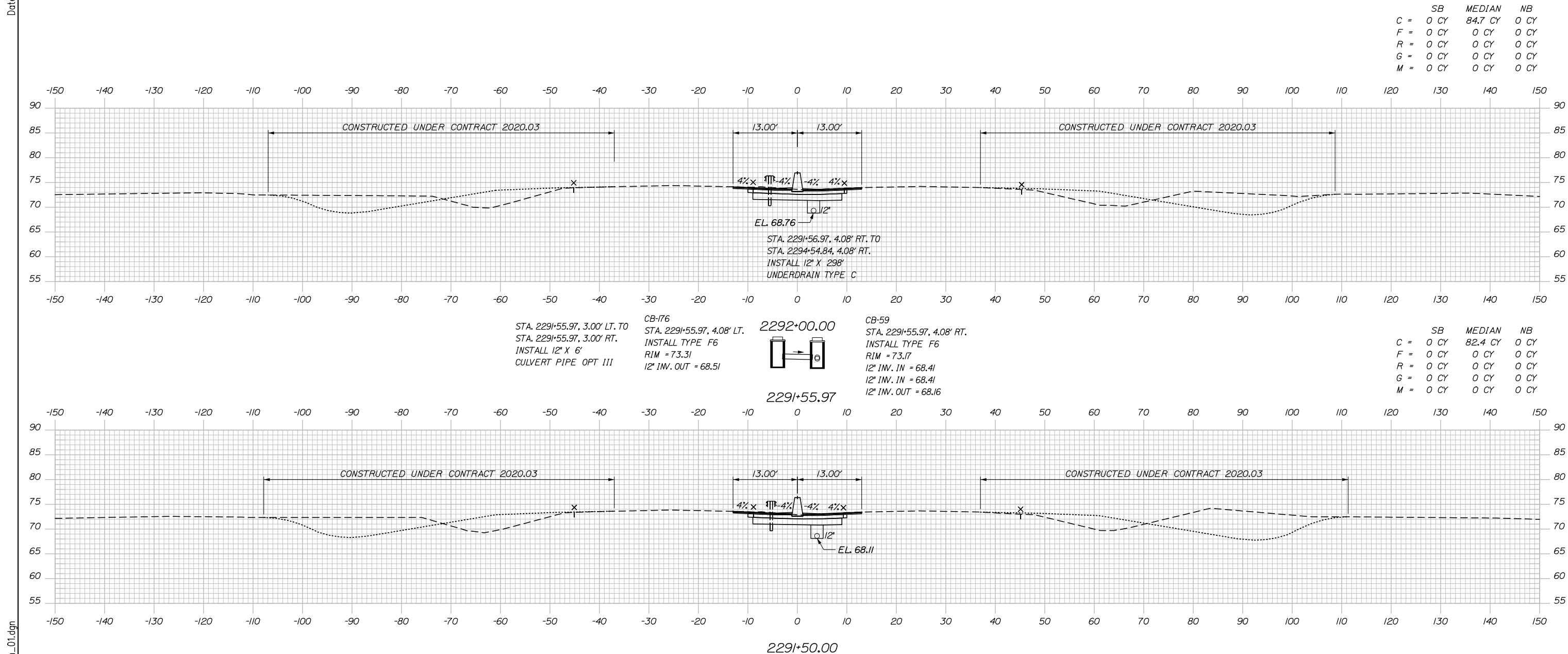
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2290+50 TO STA. d 2291+00

SHEET NUMBER:
 CONTRACT: 2021.08
 120 OF 376

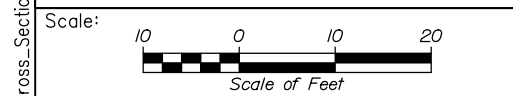
Filename: PAW2_Cross_Section_e.dgn

Date: 9/8/2021



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	SB	MEDIAN	NB
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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 South Portland, ME 04106
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 FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2291+50 TO STA. d 2292+00

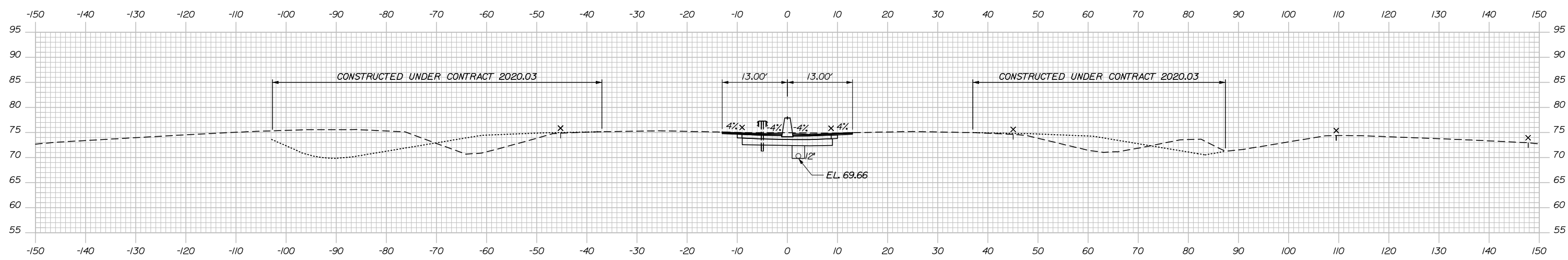
SHEET NUMBER:
 CONTRACT: 2021.08
 121OF 376

Filename: PAW2_Cross_Section_01.dgn

Date: 9/8/2021

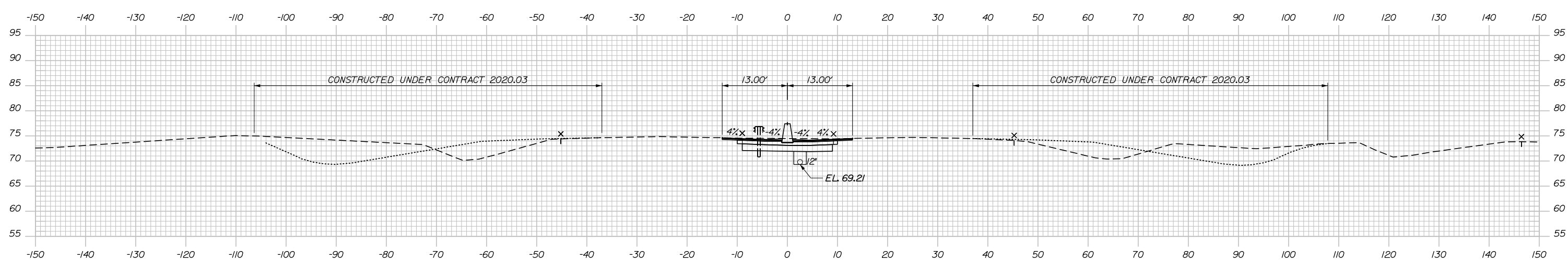
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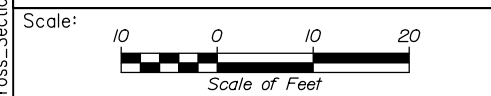


2293+00.00

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G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



2292+50.00



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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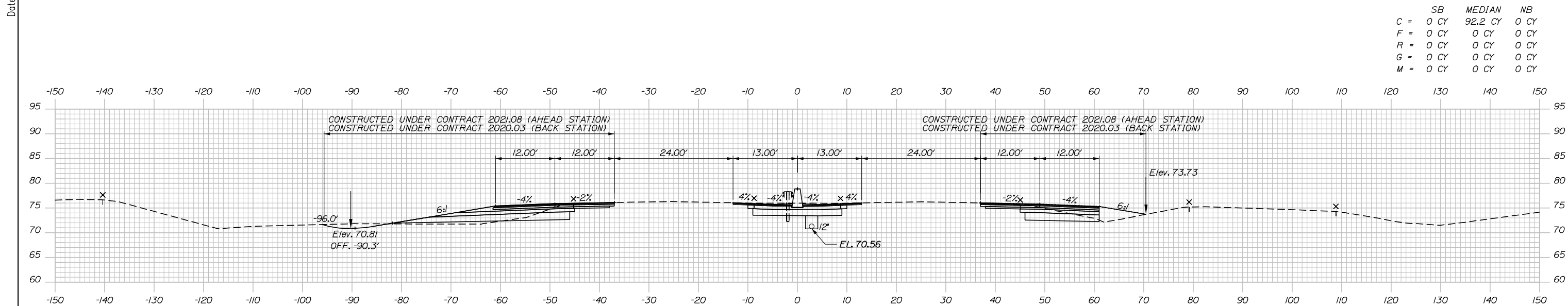
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2292+50 TO STA. d 2293+00
 SHEET NUMBER:
 CONTRACT: 2021.08

Date: 9/8/2021

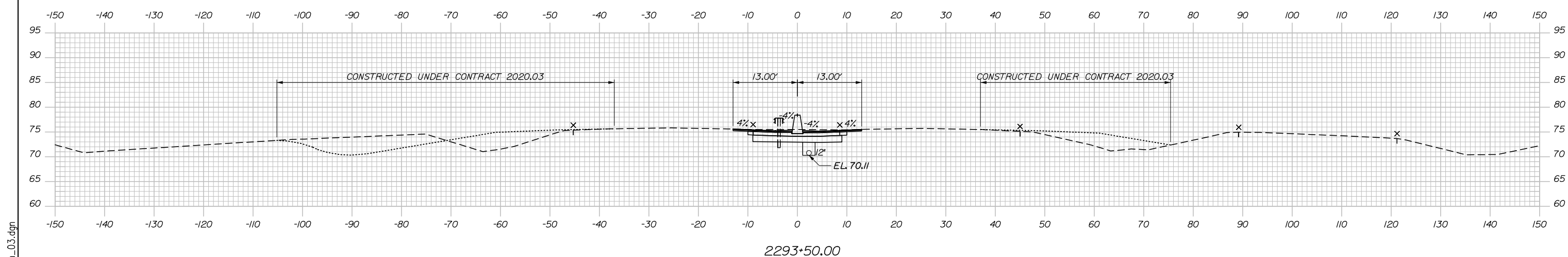


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G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY

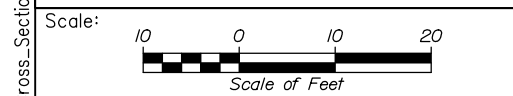
STA. 2294+00.00
 BEGIN SOUTHBOUND WIDENING, CONTRACT 2021.08
 MATCH CONTRACT 2020.03

STA. 2294+00.00
 BEGIN NORTHBOUND WIDENING, CONTRACT 2021.08
 MATCH CONTRACT 2020.03

	SB	MEDIAN	NB
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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



2293+50.00



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

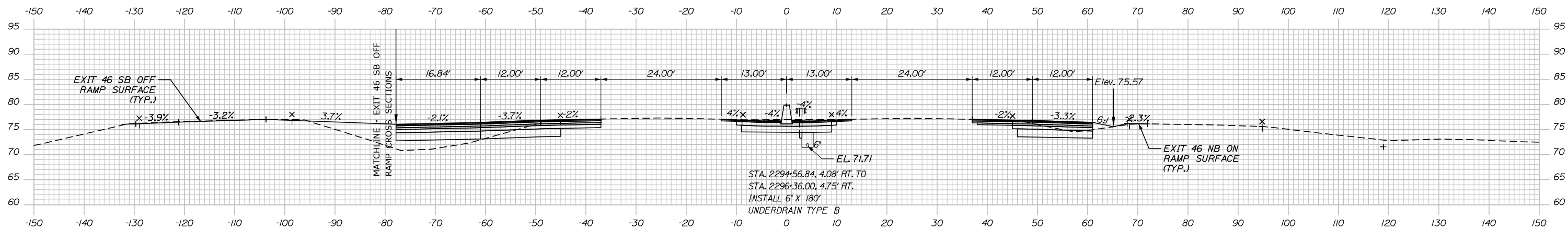
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2293+50 TO STA. d 2294+00

SHEET NUMBER:
 CONTRACT: 2021.08
 123 OF 376

Filename: PAW2_Cross_Section_03.dgn

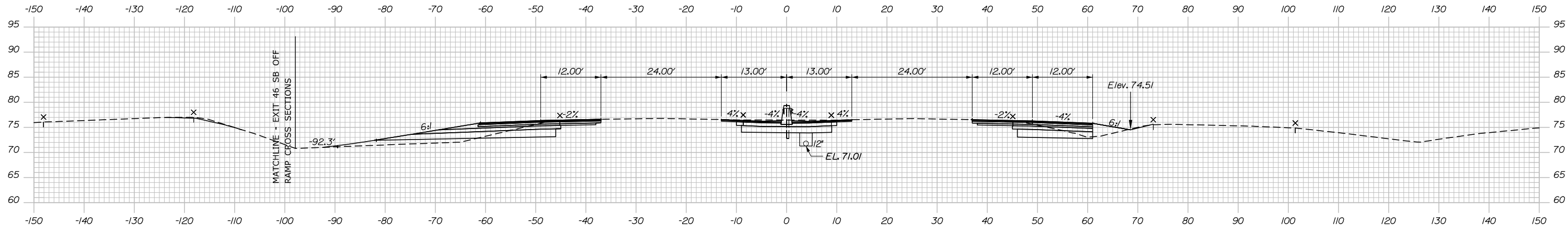
Date: 9/8/2021

	SB	MEDIAN	NB
C	55.5 CY	91.7 CY	68.1 CY
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R	0 CY	0 CY	0 CY
G	18.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

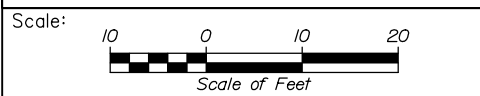


STA. 2294+55.84, 3.00' LT. TO STA. 2294+55.84, 3.00' RT. INSTALL 12' X 6' CULVERT PIPE OPT III	CB-177 STA. 2294+55.84, 4.08' LT. INSTALL TYPE F6 RIM = 76.29 12' INV. OUT = 71.42	2295+00.00 	CB-60 STA. 2294+55.84, 4.08' RT. INSTALL TYPE F6 RIM = 76.26 12' INV. IN = 71.32 6' INV. IN = 71.37 12' INV. OUT = 71.07
---	--	----------------	--

	SB	MEDIAN	NB
C	49.0 CY	91.9 CY	65.0 CY
F	12.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	21.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Filename: PAW2_Cross_Section_04.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

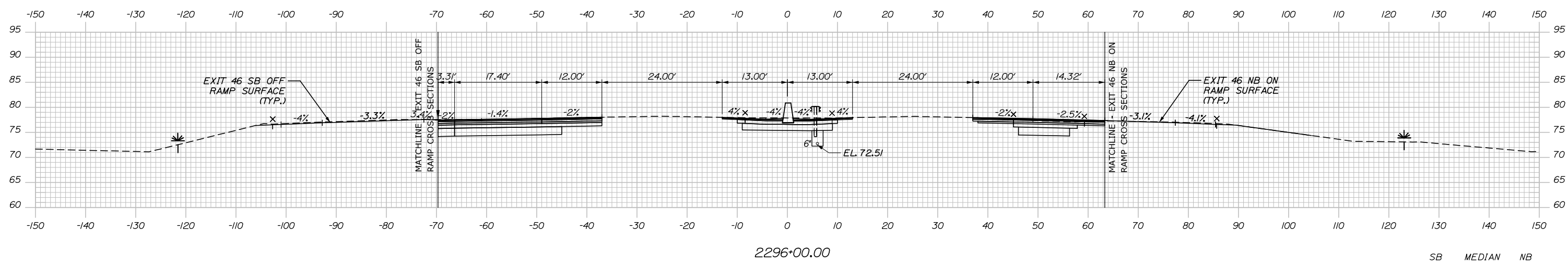
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2294+50 TO STA. d 2295+00

SHEET NUMBER:
 CONTRACT: 2021.08
 124 OF 376

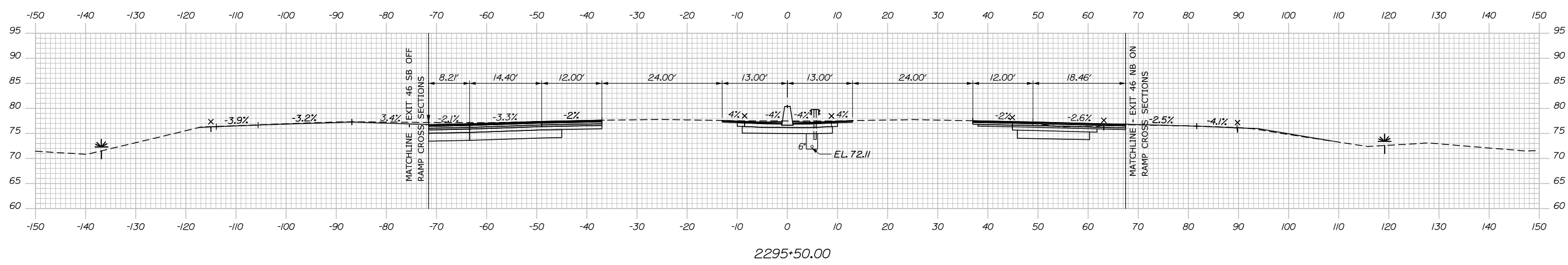
Date: 9/8/2021

Filename: PAW2_Cross_Section_05.dgn

	SB	MEDIAN	NB
C	184.8 CY	91.8 CY	92.1 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	135.9 CY	91.8 CY	86.3 CY
F	22.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	8.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

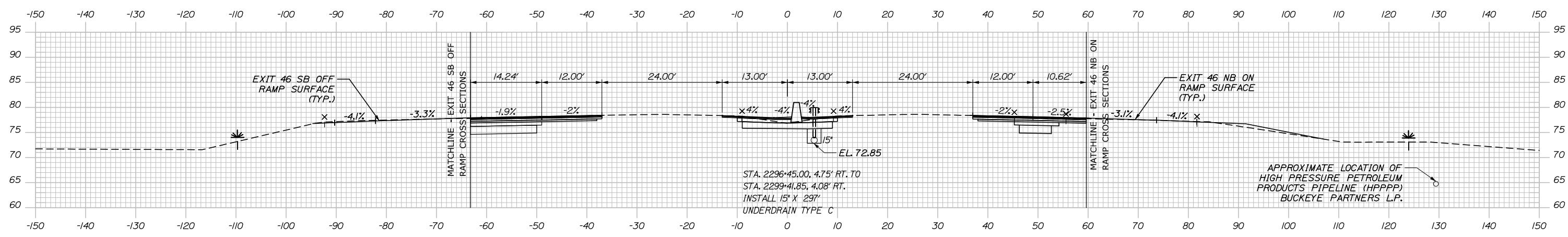
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. d 2295+50 TO STA. d 2296+00

SHEET NUMBER:
CONTRACT: 2021.08
125 OF 376

Date: 9/8/2021

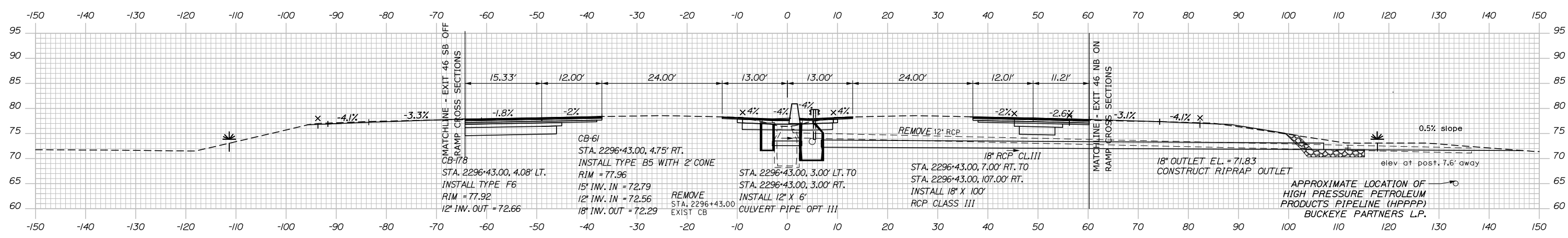
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	SB	MEDIAN	NB
C	15.9 CY	8.7 CY	9.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

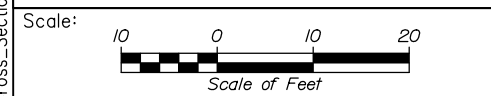


2296+50.00

	SB	MEDIAN	NB
C	128.9 CY	64.4 CY	65.8 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2296+43.00



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Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

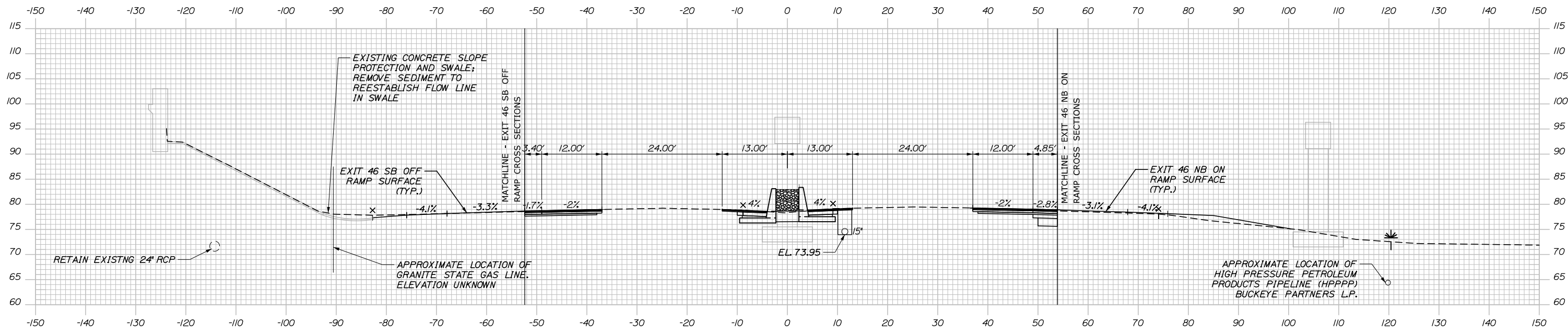
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2296+43 TO STA. d 2296+50
 SHEET NUMBER:
 CONTRACT: 2021.08 126 OF 376

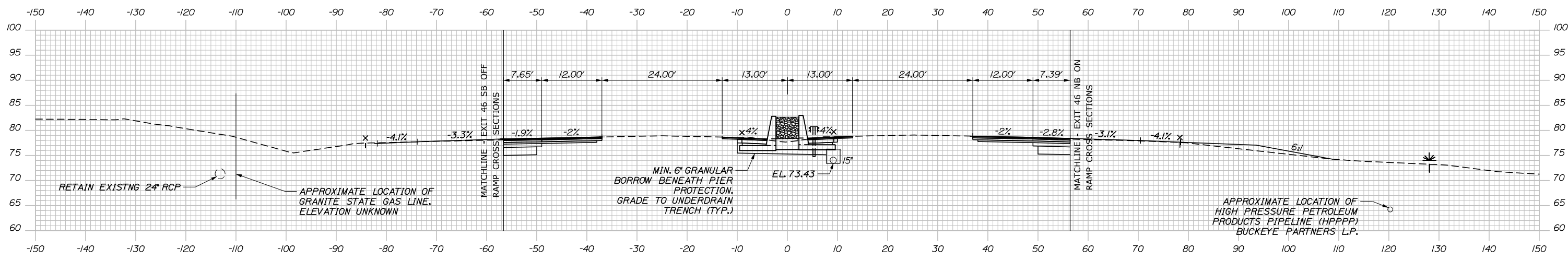
Date: 9/8/2021

	SB	MEDIAN	NB
C	45.3 CY	77.3 CY	53.1 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



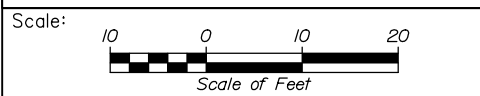
2297+50.00

	SB	MEDIAN	NB
C	82.6 CY	71.1 CY	63.2 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2297+00.00

Filename: PAW2_Cross_Section_07.dgn



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MAINE TURNPIKE

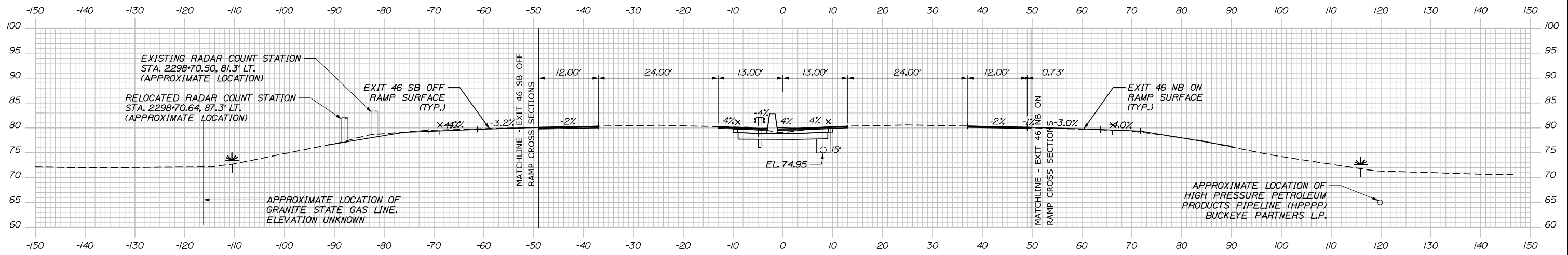
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2297+00 TO STA. e 2297+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 127 OF 376

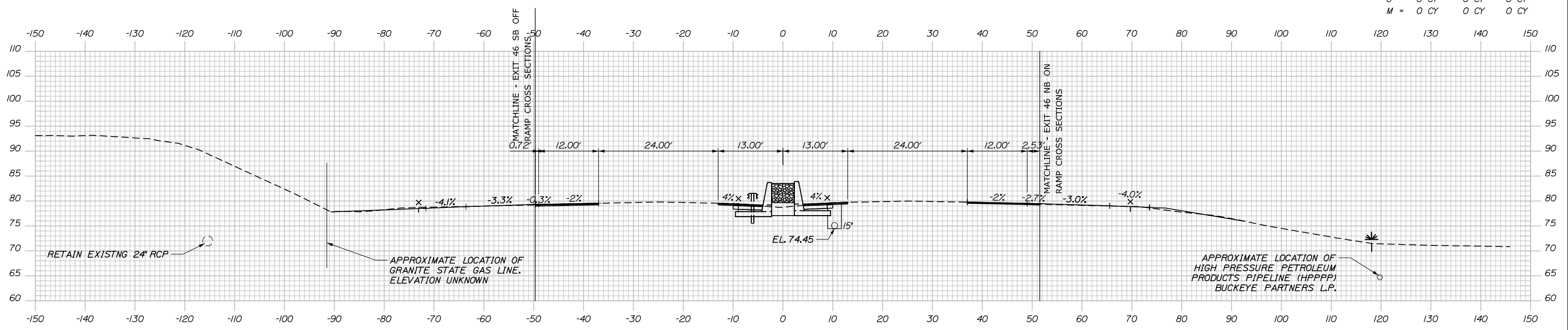
Date: 9/8/2021

	SB	MEDIAN	NB
C	6.7 CY	74.5 CY	5.0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



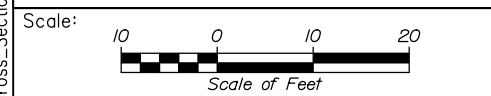
2298+50.00

	SB	MEDIAN	NB
C	17.0 CY	77.1 CY	25.2 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2298+00.00

Filename: PAW2_Cross_Section_08.dgn



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Drawn	GW	09\21	In Charge of	TRC	09\21

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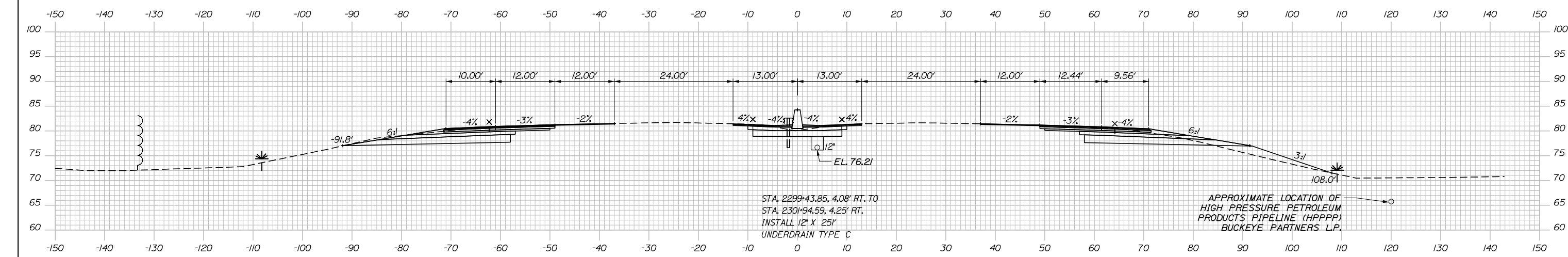
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

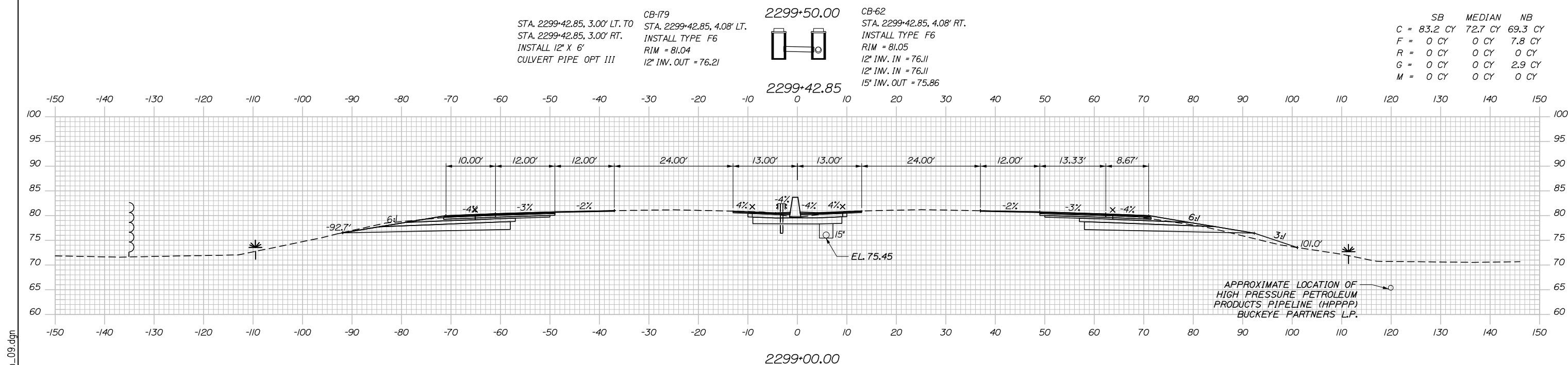
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. e 2298+00 TO STA. e 2298+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 128 OF 376

Date: 9/8/2021



	SB	MEDIAN	NB
C	155.9 CY	71.3 CY	125.0 CY
F	0 CY	0 CY	28.0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	7.0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	83.2 CY	72.7 CY	69.3 CY
F	0 CY	0 CY	7.8 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.9 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

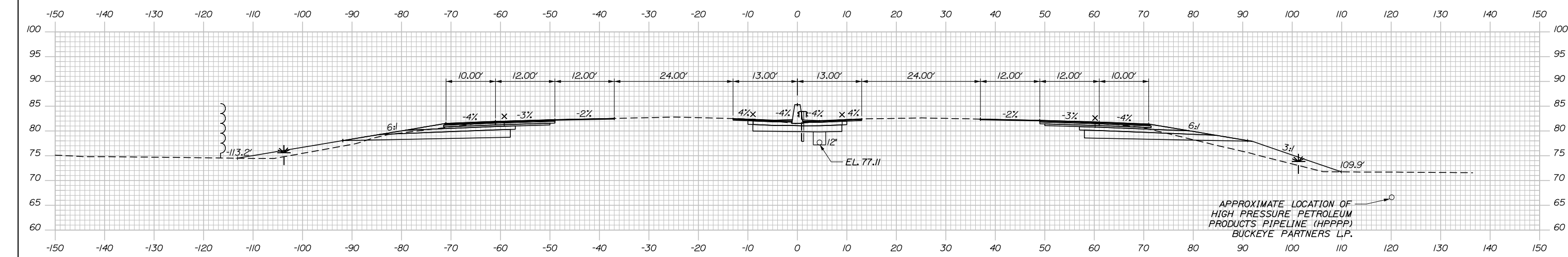
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. e 2299+00 TO STA. e 2299+50

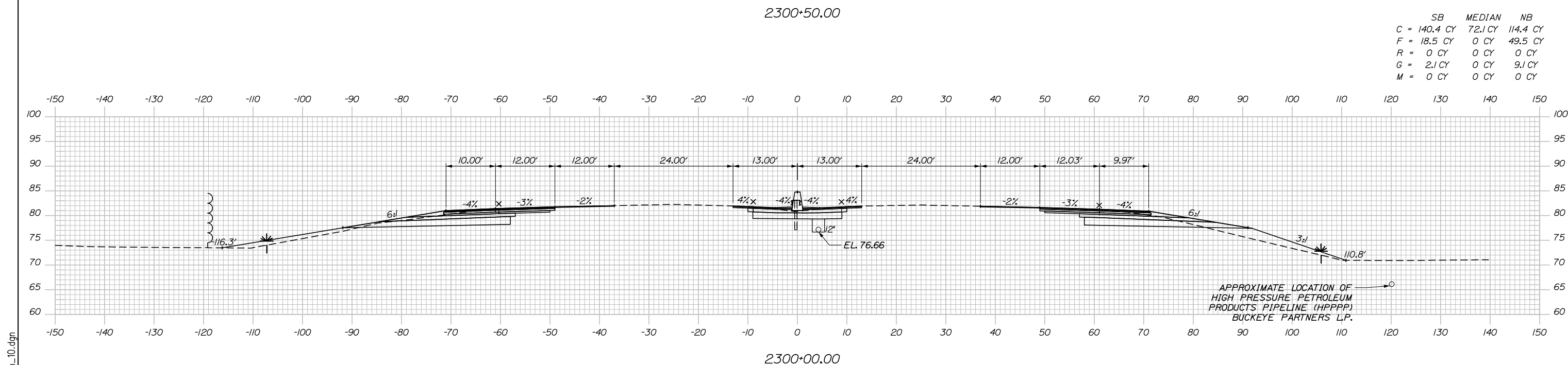
SHEET NUMBER:
 CONTRACT: 2021.08
 129 OF 376

Filename: PAW2_Cross_Section_09.dgn

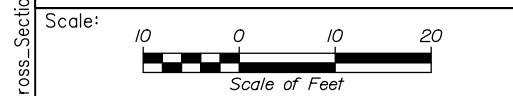
Date: 9/8/2021



	SB	MEDIAN	NB
C	128.8 CY	75.2 CY	107.4 CY
F	41.1 CY	0 CY	69.7 CY
R	0 CY	0 CY	0 CY
G	4.7 CY	0 CY	10.7 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	140.4 CY	72.1 CY	114.4 CY
F	18.5 CY	0 CY	49.5 CY
R	0 CY	0 CY	0 CY
G	2.1 CY	0 CY	9.1 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. e 2300+00 TO STA. e 2300+50

SHEET NUMBER:
 CONTRACT: 2021.08
 130 OF 376

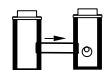
Filename: PAW2_Cross_Section_10.dgn

Date: 9/8/2021

STA. 2301+96.59, 4.25' RT. TO
 STA. 2307+99.00, 4.08' RT.
 INSTALL 6" X 603'
 UNDERDRAIN TYPE B

STA. 2301+95.59, 1.00' LT. TO
 STA. 2301+95.59, 3.25' RT.
 INSTALL 12" X 6'
 CULVERT PIPE OPT III

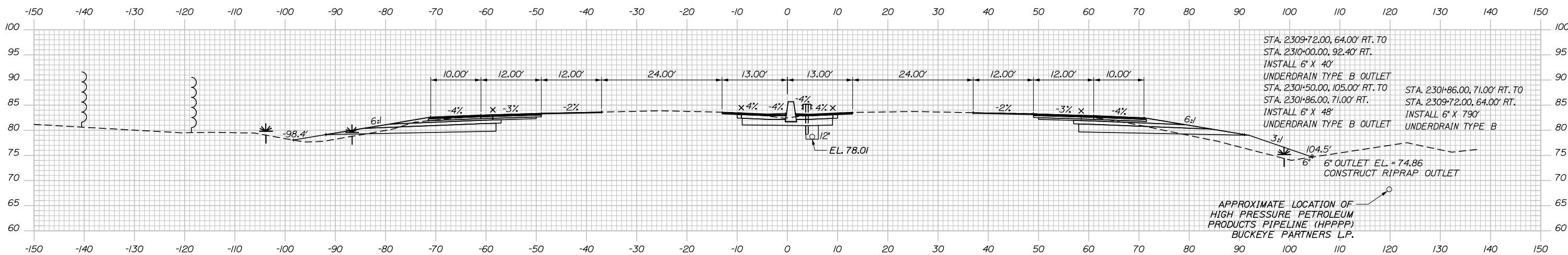
CB-180
 STA. 2301+95.59, 2.00' LT.
 INSTALL TYPE F6
 RIM = 83.64
 12" INV. OUT = 78.78



2301+95.59

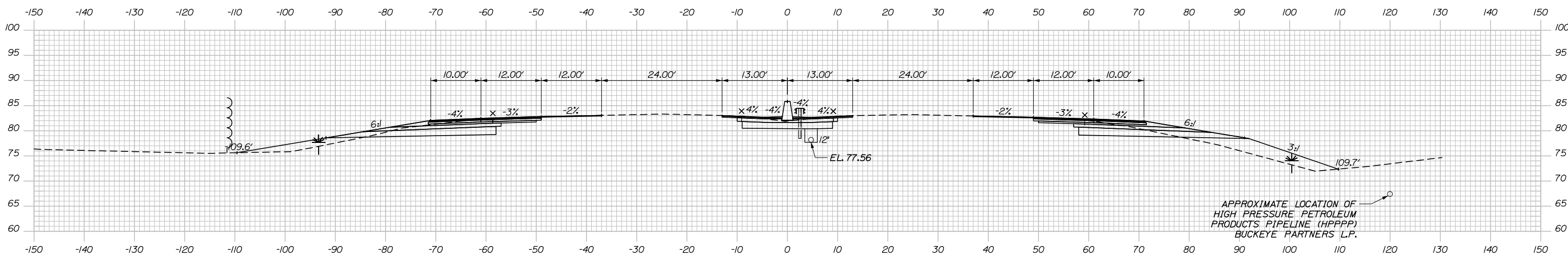
CB-63
 STA. 2301+95.59, 4.25' RT.
 INSTALL TYPE F6
 RIM = 83.69
 12" INV. IN = 78.68
 6" INV. IN = 79.18
 12" INV. OUT = 78.43

	SB	MEDIAN	NB
C	118.4 CY	73.2 CY	85.7 CY
F	32.0 CY	0 CY	90.6 CY
R	0 CY	0 CY	0 CY
G	8.6 CY	0 CY	13.8 CY
M	0 CY	0 CY	0 CY

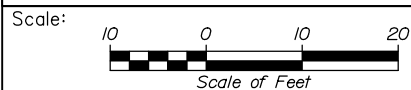


2301+50.00

	SB	MEDIAN	NB
C	123.7 CY	75.0 CY	93.0 CY
F	45.1 CY	0 CY	91.5 CY
R	0 CY	0 CY	0 CY
G	6.8 CY	0 CY	12.8 CY
M	0 CY	0 CY	0 CY



2301+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. e 2301+00 TO STA. e 2301+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

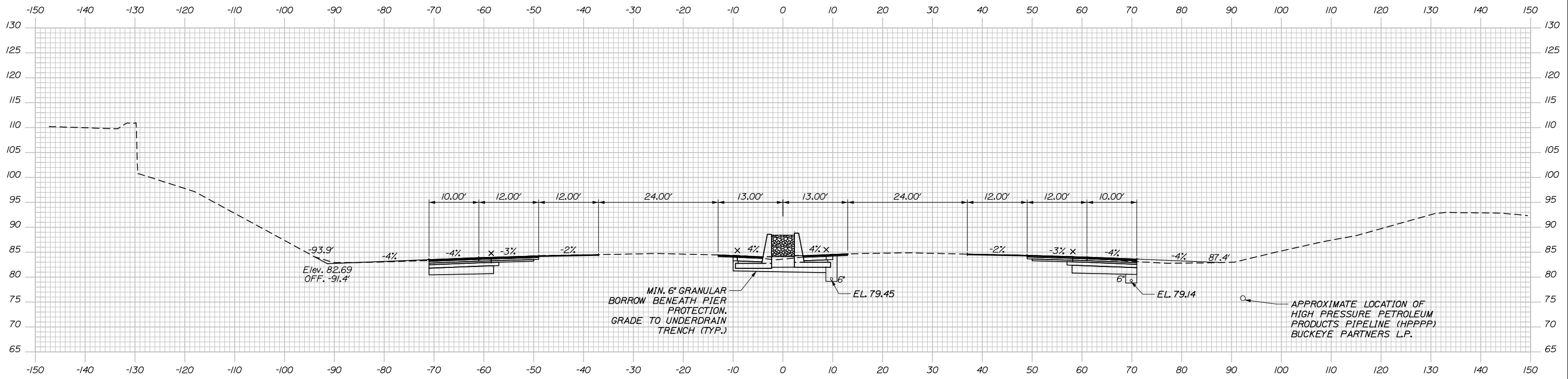
CONTRACT: 2021.08

131 OF 376

Filename: PAW2_Cross_Section_11.dgn

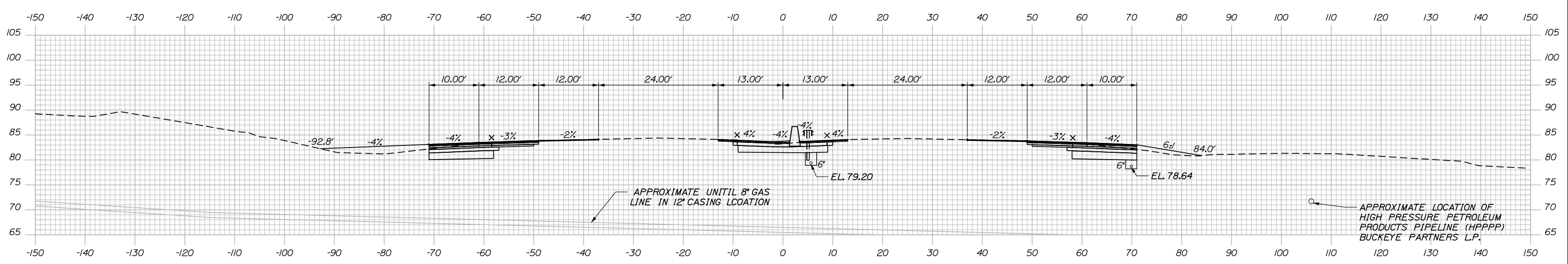
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C	= 89.7 CY	74.9 CY	87.2 CY
F	= 23.8 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY

Date: 9/8/2021

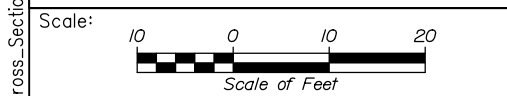


2302+50.00

	SB	MEDIAN	NB
C	= 101.9 CY	74.7 CY	86.1 CY
F	= 32.1 CY	0 CY	39.4 CY
R	= 0 CY	0 CY	0 CY
G	= 4.4 CY	0 CY	6.9 CY
M	= 0 CY	0 CY	0 CY



2302+00.00




Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

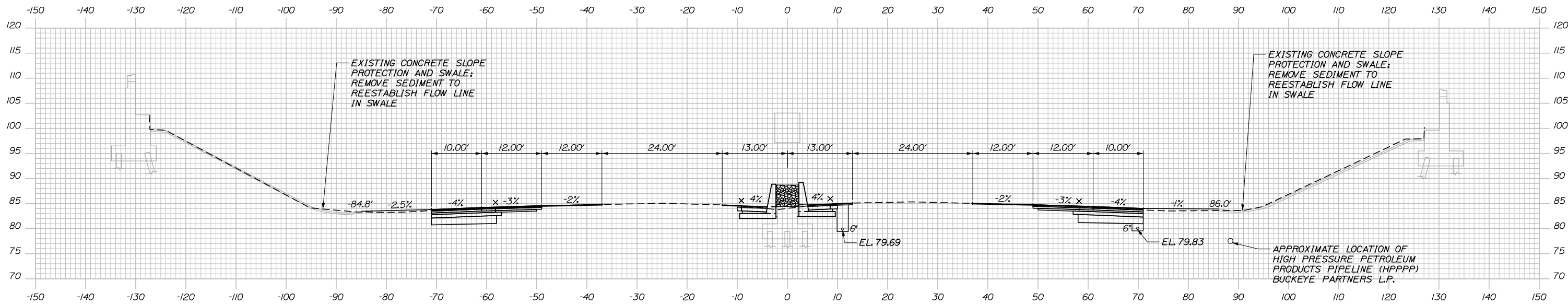
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. e 2302+00 TO STA. f 2302+50
SHEET NUMBER:

CONTRACT: 2021.08 132 OF 376

Filename: PAW2_Cross_Section_12.dgn

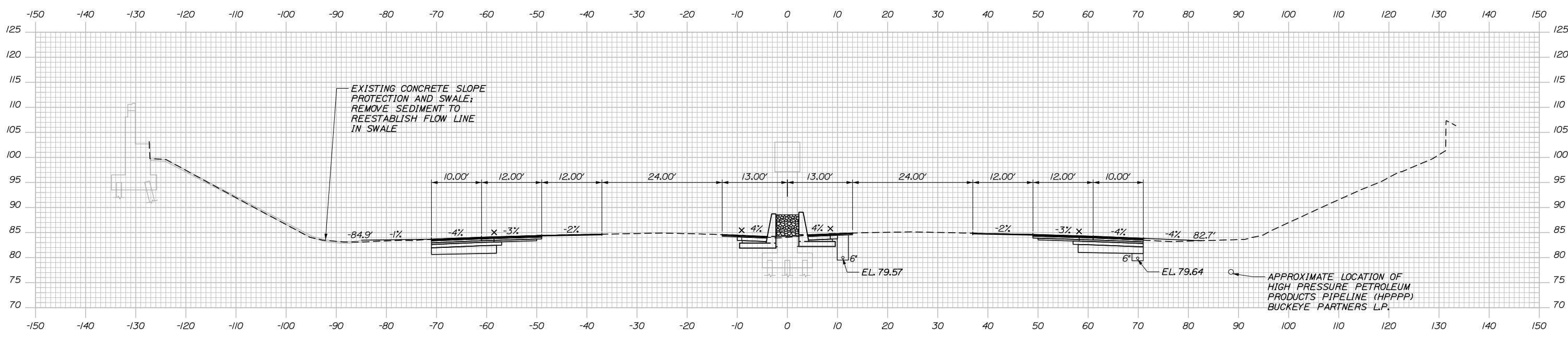
Date: 9/8/2021

	SB	MEDIAN	NB
C	46.8 CY	37.7 CY	45.2 CY
F	1.9 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



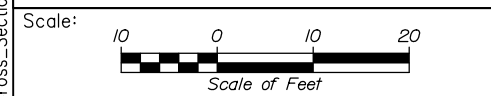
2303+00.00

	SB	MEDIAN	NB
C	46.9 CY	37.8 CY	44.8 CY
F	0.6 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2302+75.00

Filename: PAW2_Cross_Section_13.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

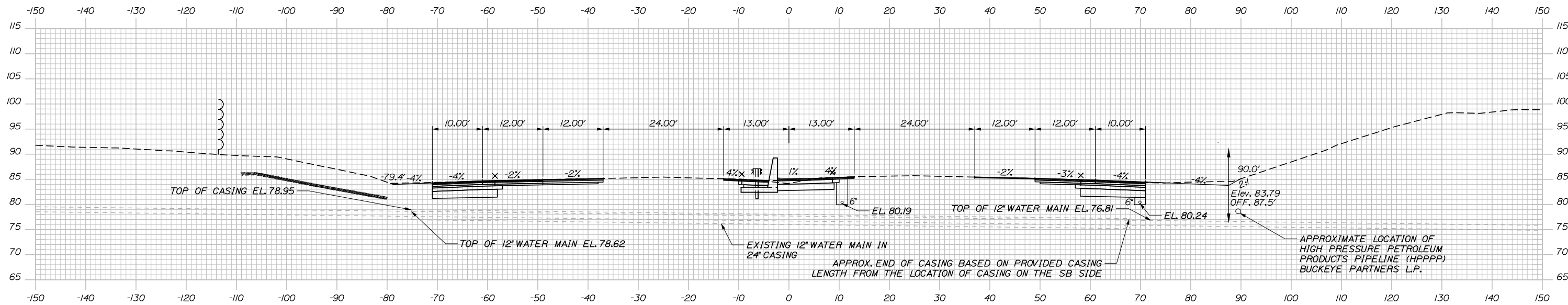
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2302+75 TO STA. f 2303+00

SHEET NUMBER:
 CONTRACT: 2021.08
 133 OF 376

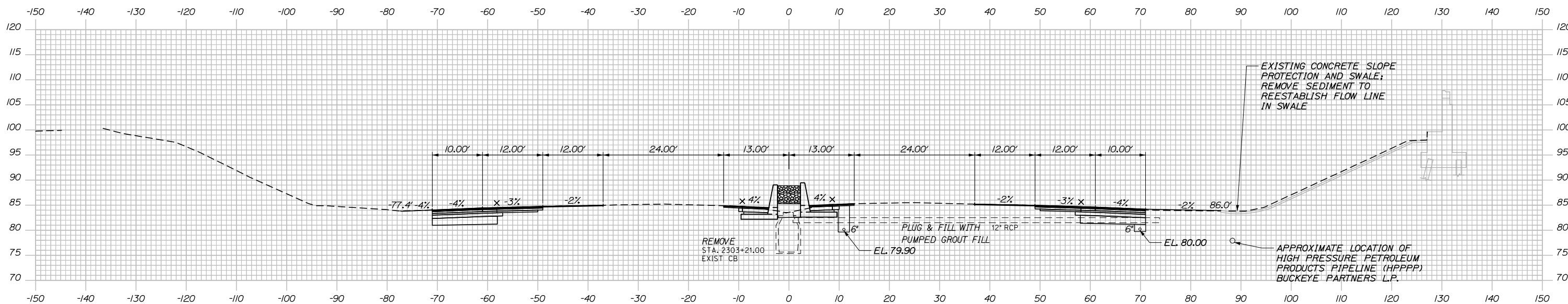
Date: 9/8/2021

	SB	MEDIAN	NB
C	65.2 CY	40.5 CY	53.0 CY
F	6.6 CY	0 CY	0 CY
R	2.8 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



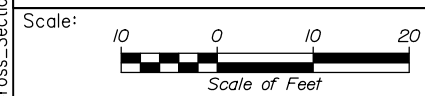
2303+50.00

	SB	MEDIAN	NB
C	39.4 CY	29.1 CY	38.6 CY
F	1.6 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2303+21.00

Filename: PAW2_Cross_Section_14.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

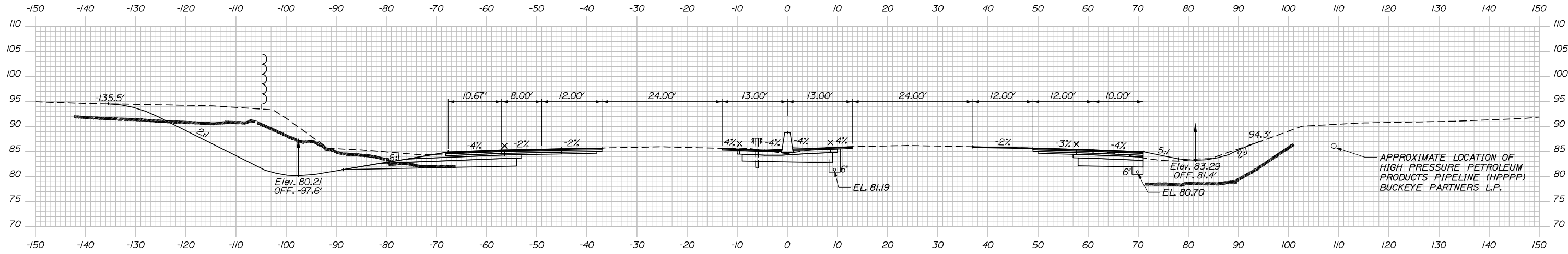
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2303+21 TO STA. f 2303+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 134 OF 376

Date: 9/8/2021

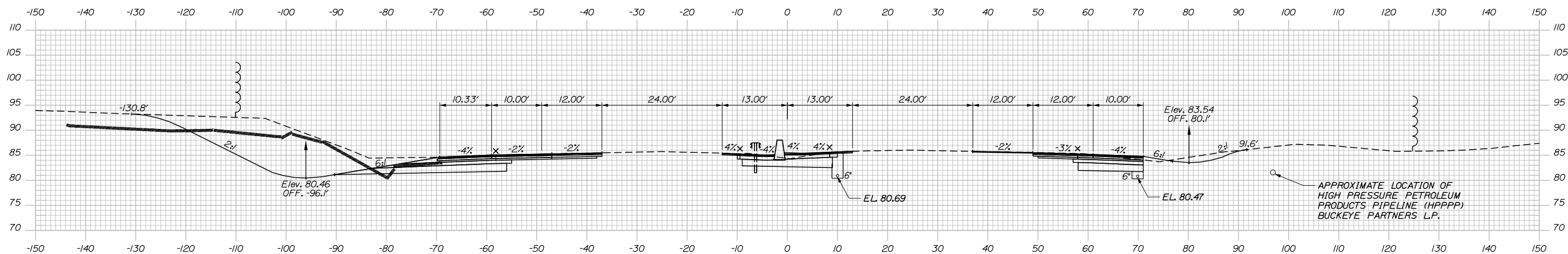
Filename: PAW2_Cross_Section_16.dgn

	SB	MEDIAN	NB
C	308.8 CY	92.1 CY	107.6 CY
F	95.7 CY	29.7 CY	20.9 CY
R	522.5 CY	13.3 CY	6.9 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

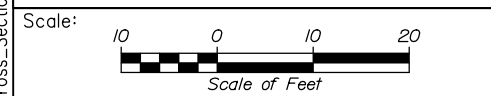


2304+50.00

	SB	MEDIAN	NB
C	204.8 CY	82.0 CY	107.5 CY
F	69.8 CY	18.4 CY	14.3 CY
R	266.9 CY	12.5 CY	6.9 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2304+00.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

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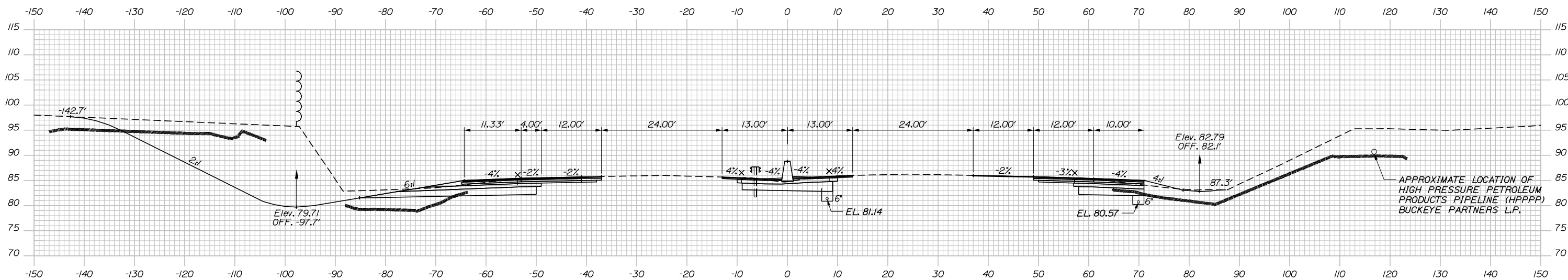
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2304+00 TO STA. f 2304+50

SHEET NUMBER:
 CONTRACT: 2021.08
 135 OF 376

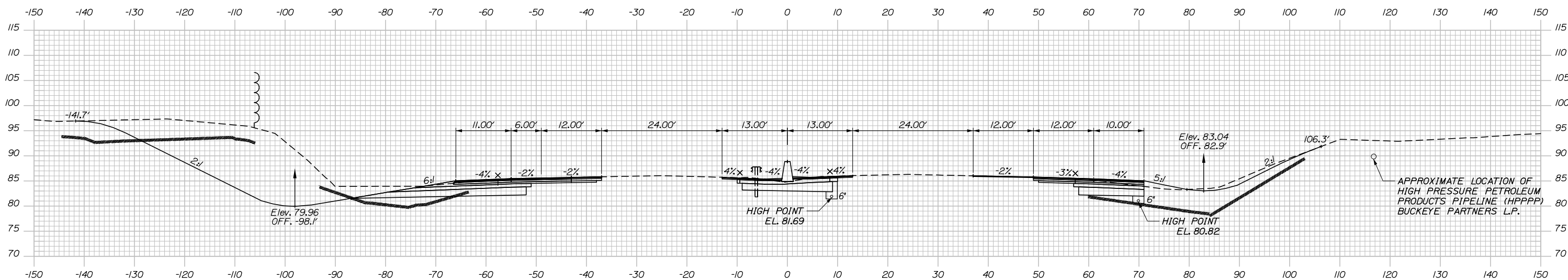
Date: 9/8/2021

	SB	MEDIAN	NB
C	491.1 CY	85.7 CY	112.2 CY
F	115.3 CY	35.6 CY	64.3 CY
R	598.6 CY	32.7 CY	42.9 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

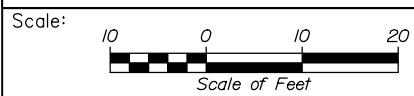


2305+50.00

	SB	MEDIAN	NB
C	429.6 CY	91.6 CY	118.0 CY
F	107.4 CY	28.6 CY	41.6 CY
R	543.7 CY	14.6 CY	10.7 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2305+00.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2305+00 TO STA. f 2305+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

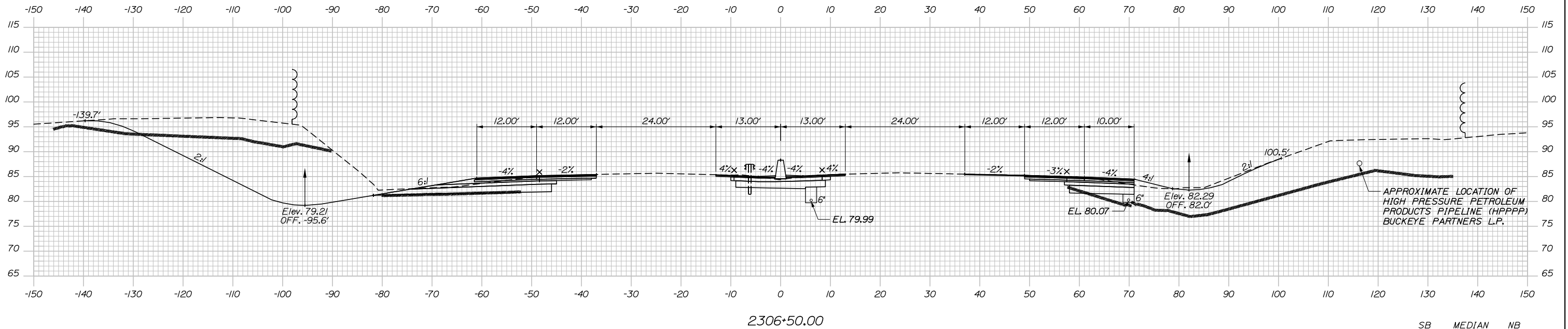
CONTRACT: 2021.08

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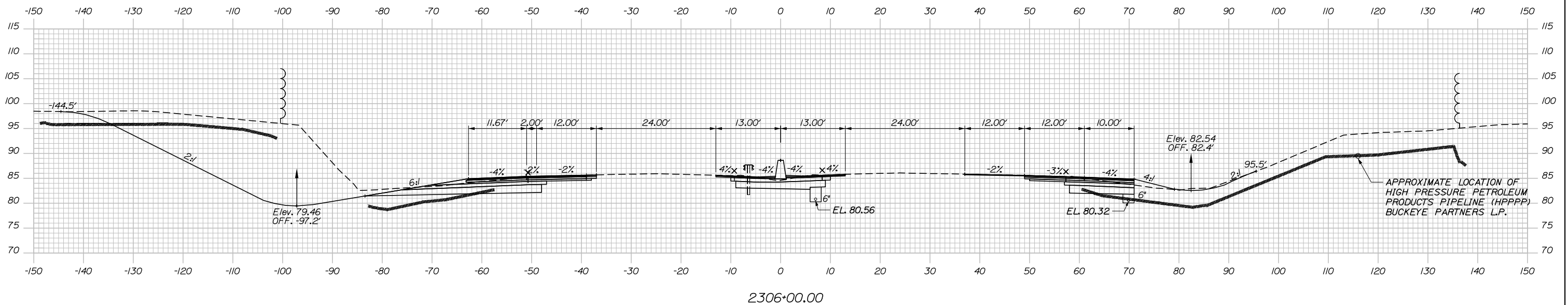
Filename: PAW2_Cross_Section_17.dgn

Date: 9/8/2021

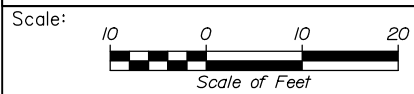
	SB	MEDIAN	NB
C	413.7 CY	85.8 CY	116.9 CY
F	96.9 CY	36.5 CY	63.6 CY
R	772.8 CY	39.6 CY	31.7 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	452.7 CY	83.7 CY	94.3 CY
F	103.9 CY	36.5 CY	62.4 CY
R	708.7 CY	38.5 CY	50.9 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Filename: PAW2_Cross_Section_18.dgn



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. f 2306+00 TO STA. f 2306+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

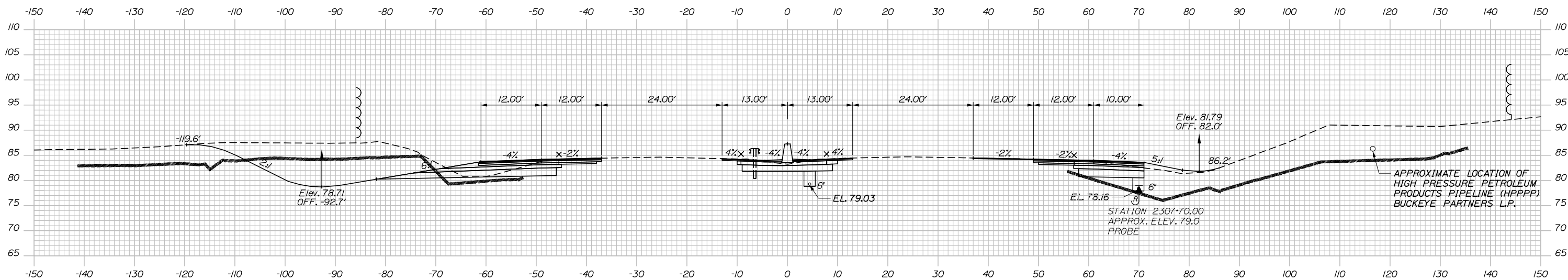
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

137 OF 376

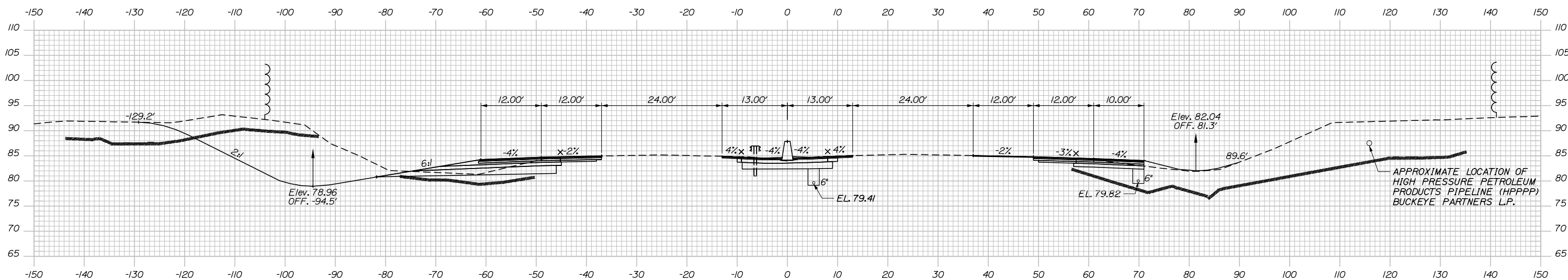
Date: 9/8/2021

	SB	MEDIAN	NB
C	276.3 CY	96.9 CY	95.8 CY
F	82.5 CY	34.6 CY	59.5 CY
R	442.2 CY	25.9 CY	21.9 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



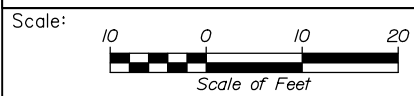
2307+50.00

	SB	MEDIAN	NB
C	321.5 CY	93.2 CY	100.6 CY
F	84.4 CY	34.6 CY	53.9 CY
R	638.5 CY	31.1 CY	22.1 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2307+00.00

Filename: PAW2_Cross_Section_19.dgn



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. f 2307+00 TO STA. f 2307+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

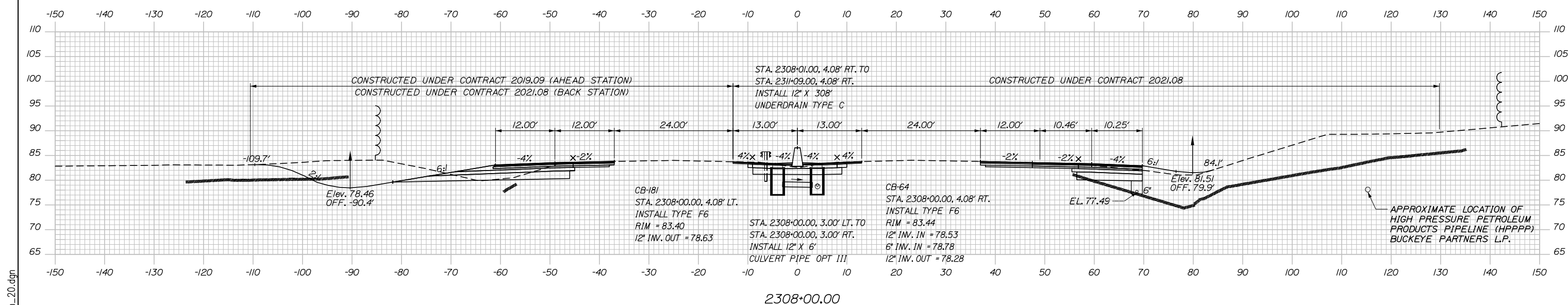
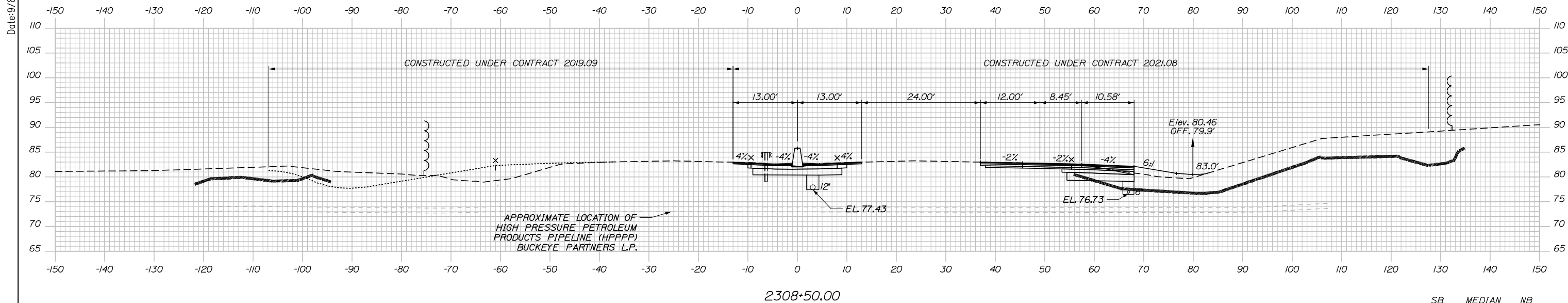
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER:

138 OF 376

Date: 9/8/2021



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2308+00 TO STA. f 2308+50

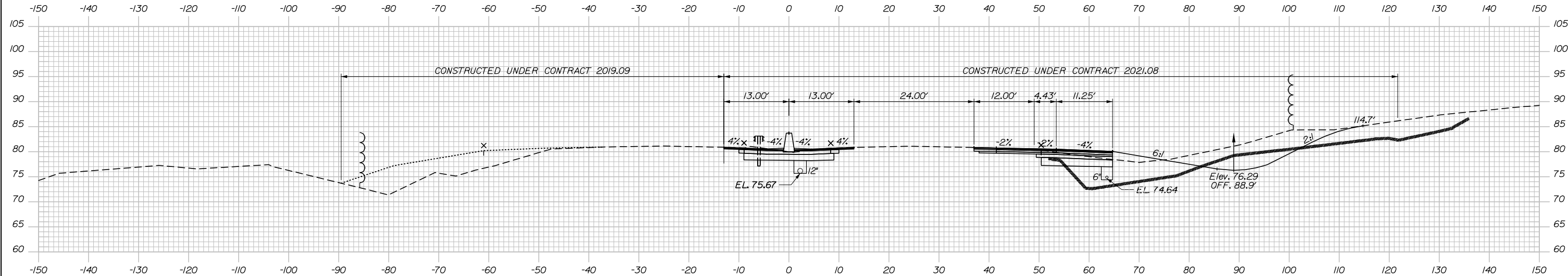
SHEET NUMBER:
 139 OF 376

CONTRACT: 2021.08

Filename: PAW2_Cross_Section_20.dgn

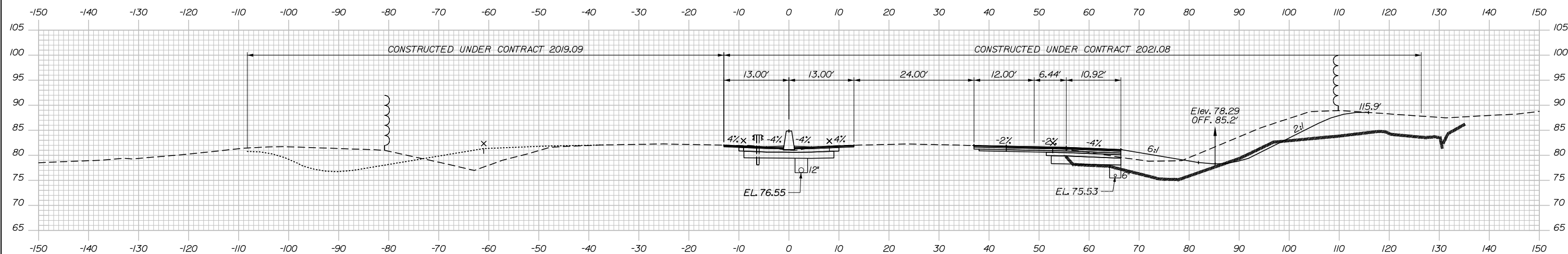
Date: 9/8/2021

	SB	MEDIAN	NB
C	0 CY	82.1 CY	253.0 CY
F	0 CY	34.3 CY	73.2 CY
R	0 CY	61.1 CY	40.1 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



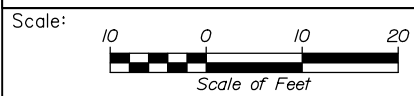
2309+50.00

	SB	MEDIAN	NB
C	0 CY	85.6 CY	206.3 CY
F	0 CY	36.1 CY	103.0 CY
R	0 CY	46.6 CY	54.4 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2309+00.00

Filename: PAW2_Cross_Section_21.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

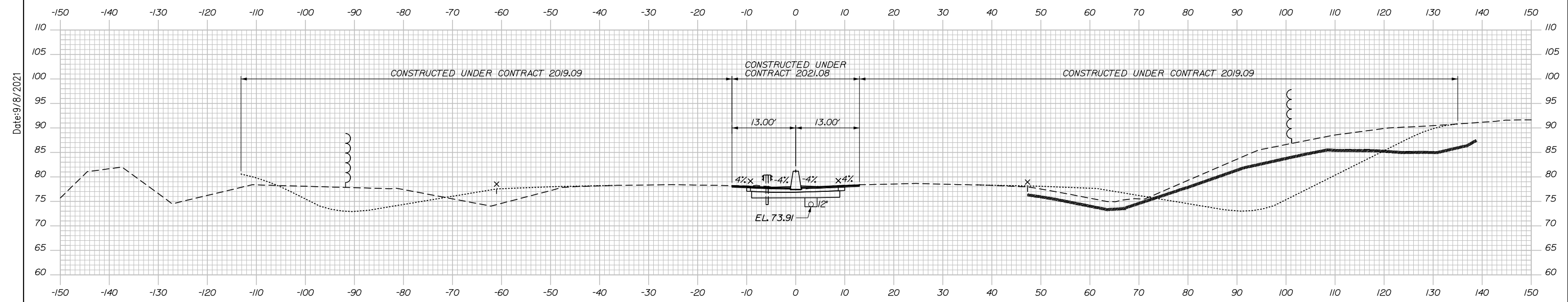
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2309+00 TO STA. f 2309+50

SHEET NUMBER:
 140 OF 376

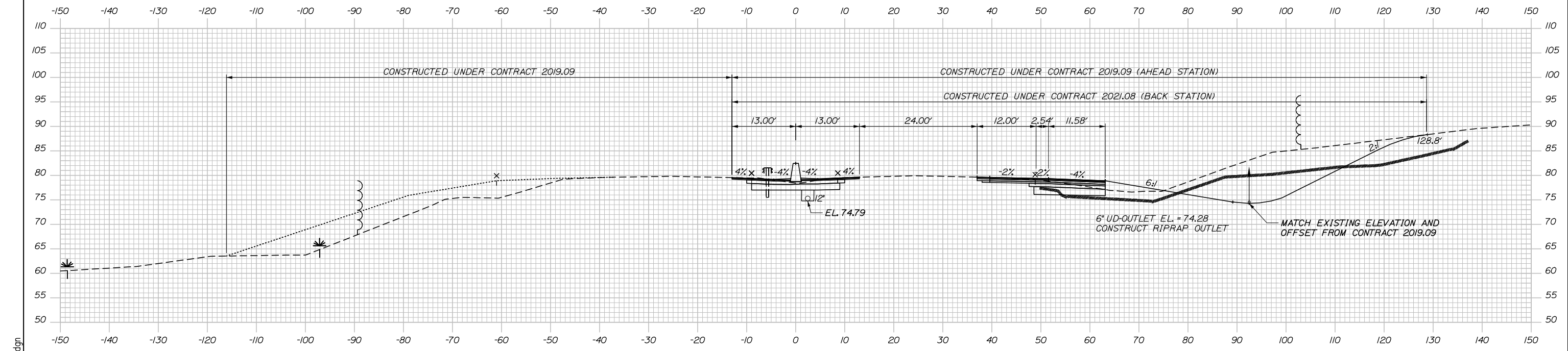
CONTRACT: 2021.08

	SB	MEDIAN	NB
C =	0 CY	75.3 CY	0 CY
F =	0 CY	34.4 CY	0 CY
R =	0 CY	44.8 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



2310+50.00

	SB	MEDIAN	NB
C =	0 CY	83.2 CY	278.8 CY
F =	0 CY	34.3 CY	77.5 CY
R =	0 CY	52.6 CY	166.0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



2310+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

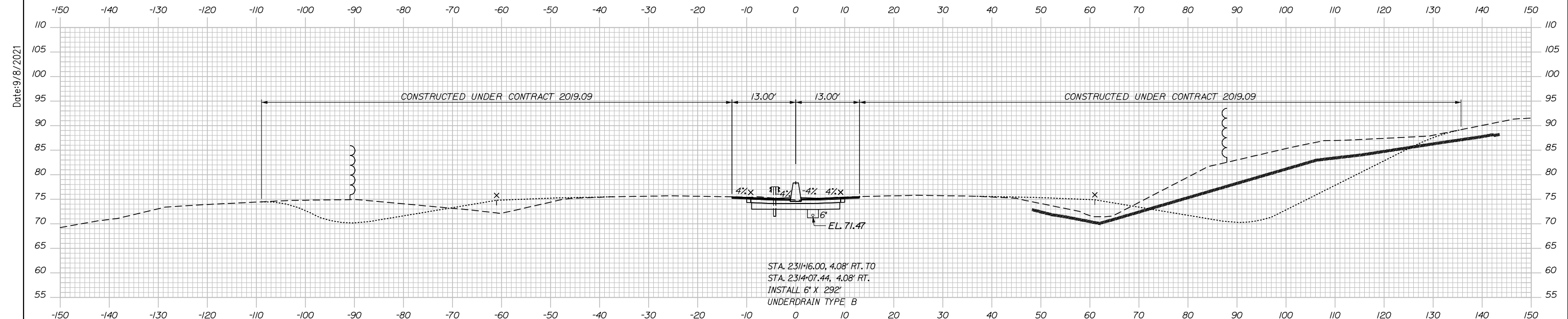
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2310+00 TO STA. f 2310+50

SHEET NUMBER:
 CONTRACT:2021.08 141OF 376

Filename: PAW2_Cross_Section_22.dgn

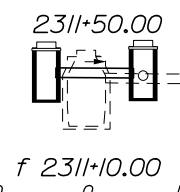
MEDIAN
 C = 92.6 CY
 F = 36.4 CY
 R = 28.2 CY
 G = 0 CY
 M = 0 CY



STA. 2311+0.00, 3.00' LT. TO STA. 2311+0.00, 3.00' RT.
 INSTALL 12" X 6' CULVERT PIPE OPT III

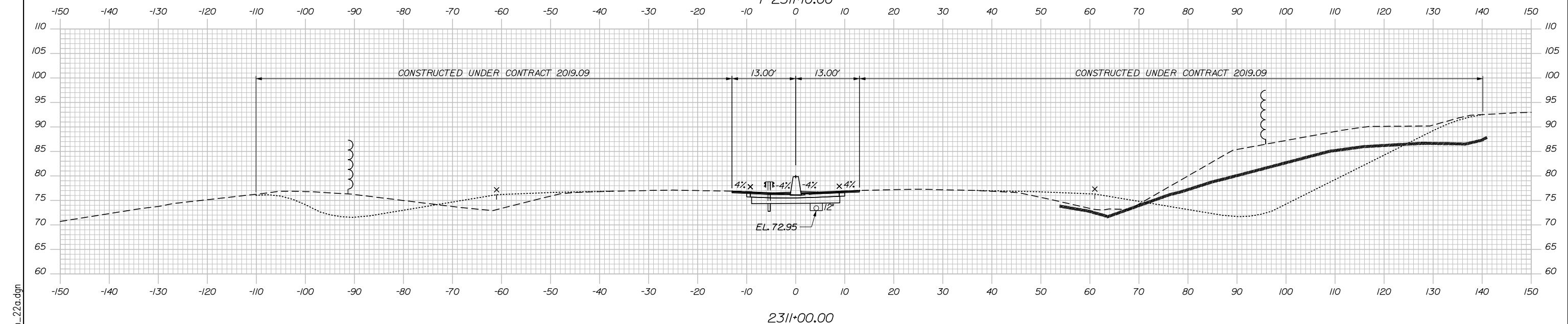
CB-182
 STA. 2311+0.00, 4.08' LT.
 INSTALL TYPE F6
 RIM = 76.28
 12" INV. OUT = 72.99

CB-65
 STA. 2311+0.00, 4.08' RT.
 INSTALL TYPE F6
 RIM = 76.41
 12" INV. IN = 72.89
 12" INV. IN = 72.89
 12" INV. OUT (EXISTING) = 72.64



REMOVE STA. 2311+00.00, EXIST CB

MEDIAN
 C = 76.1 CY
 F = 34.4 CY
 R = 42.4 CY
 G = 0 CY
 M = 0 CY



Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

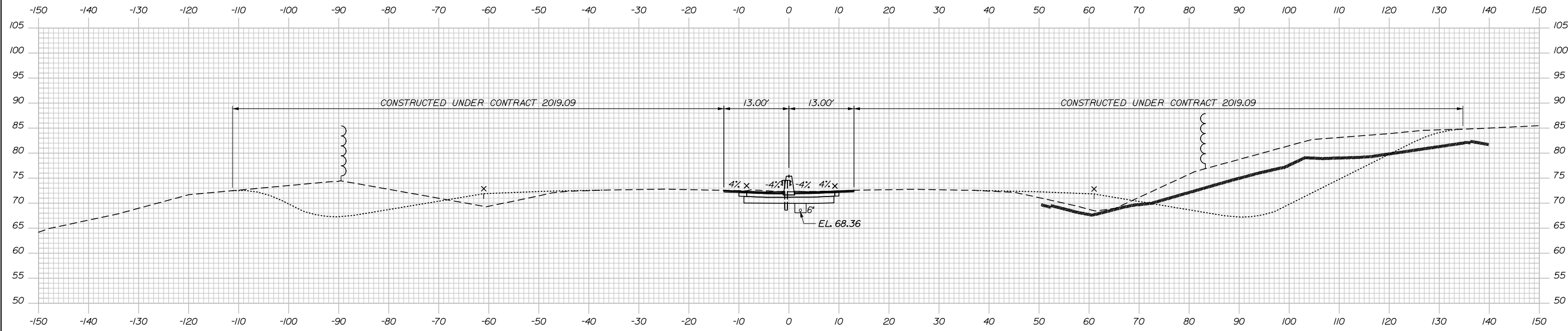
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2311+00 TO STA. f 2311+50

SHEET NUMBER:
 CONTRACT:2021.08
 142 OF 376

Filename: PAW2_Cross_Section_22a.dgn

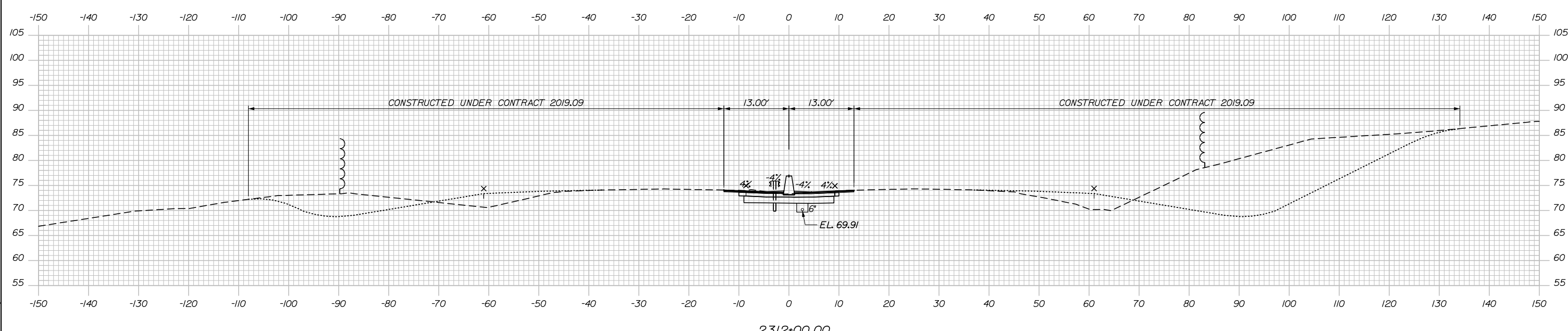
Date: 9/8/2021

MEDIAN
 C = 91.8 CY
 F = 18.3 CY
 R = 14.4 CY
 G = 0 CY
 M = 0 CY



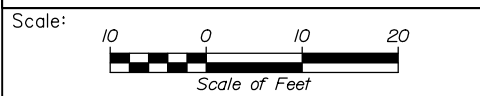
2312+50.00

MEDIAN
 C = 90.3 CY
 F = 18.3 CY
 R = 12.4 CY
 G = 0 CY
 M = 0 CY



2312+00.00

Filename: PAW2_Cross_Section_22b.dgn



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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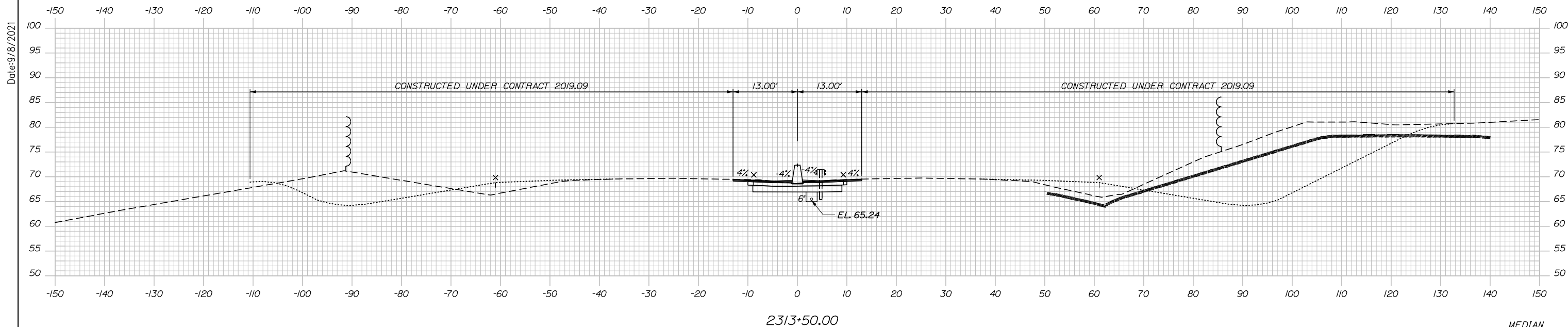
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2312+00 TO STA. f 2312+50

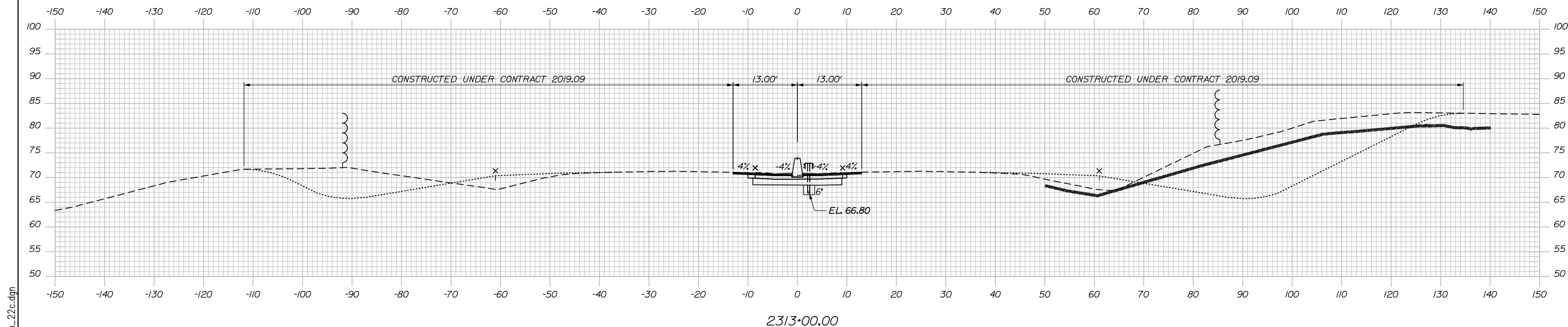
SHEET NUMBER:
143 OF 376

CONTRACT: 2021.08

MEDIAN
 C = 97.3 CY
 F = 35.8 CY
 R = 26.9 CY
 G = 0 CY
 M = 0 CY



MEDIAN
 C = 98.4 CY
 F = 36.6 CY
 R = 31.0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_22c.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2313+00 TO STA. f 2313+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

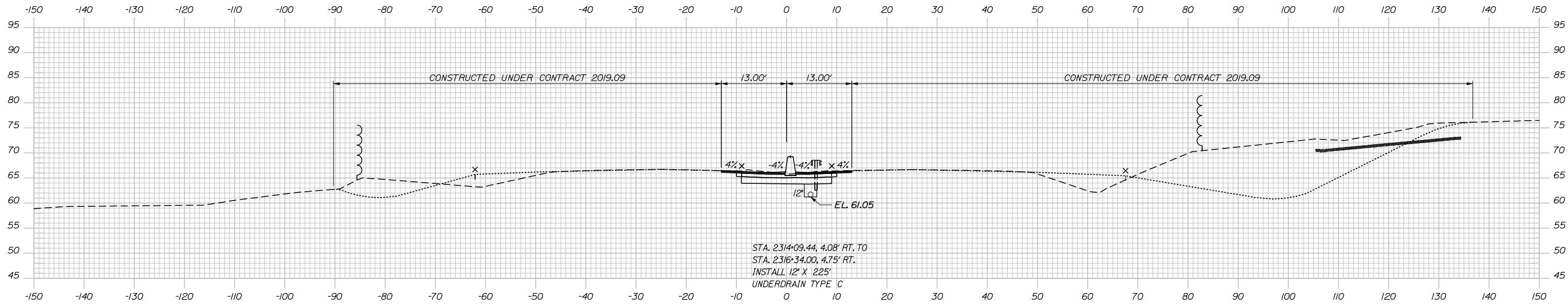
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT:2021.08

144 OF 376

Date: 9/8/2021

MEDIAN
 C = 102.6 CY
 F = 35.5 CY
 R = 25.5 CY
 G = 0 CY
 M = 0 CY



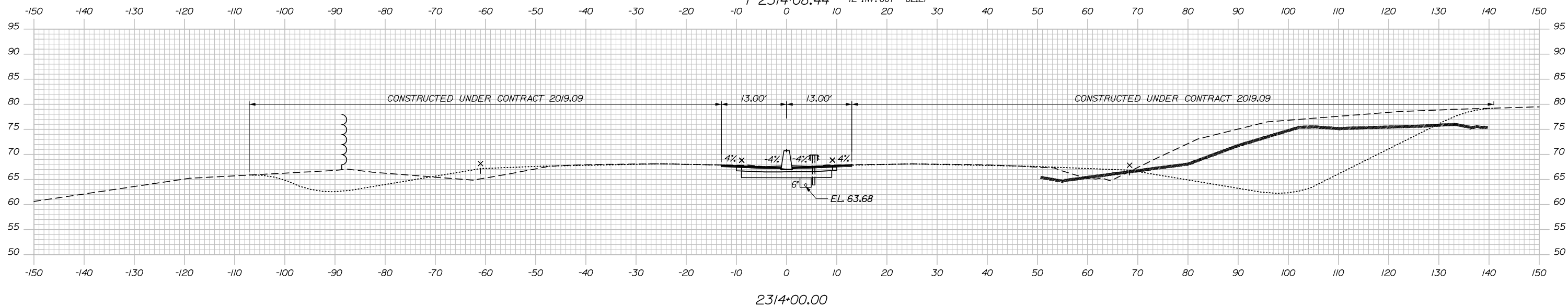
CB-183
 STA. 2314+08.44, 4.08' LT.
 INSTALL TYPE F6
 RIM = 67.31
 12' INV. OUT = 62.62

STA. 2314+08.44, 3.00' LT. TO
 STA. 2314+08.44, 3.00' RT.
 INSTALL 12' X 6'
 CULVERT PIPE OPT III

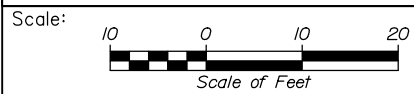
2314+50.00
 f 2314+08.44

CB-66
 STA. 2314+08.44, 4.08' RT.
 INSTALL TYPE F6
 RIM = 67.36
 12' INV. IN = 62.52
 6' INV. IN = 62.92
 12' INV. OUT = 62.27

MEDIAN
 C = 97.0 CY
 F = 35.9 CY
 R = 27.0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_22d.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2314+00 TO STA. f 2314+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

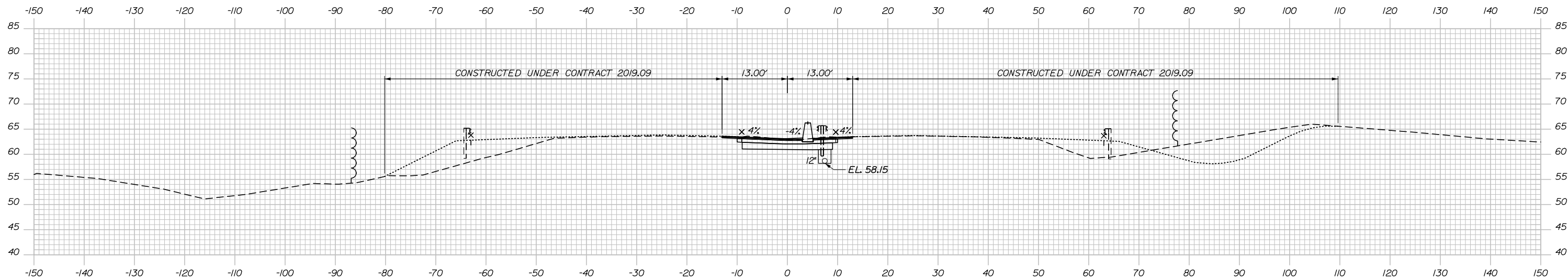
CONTRACT: 2021.08

SHEET NUMBER:

145 OF 376

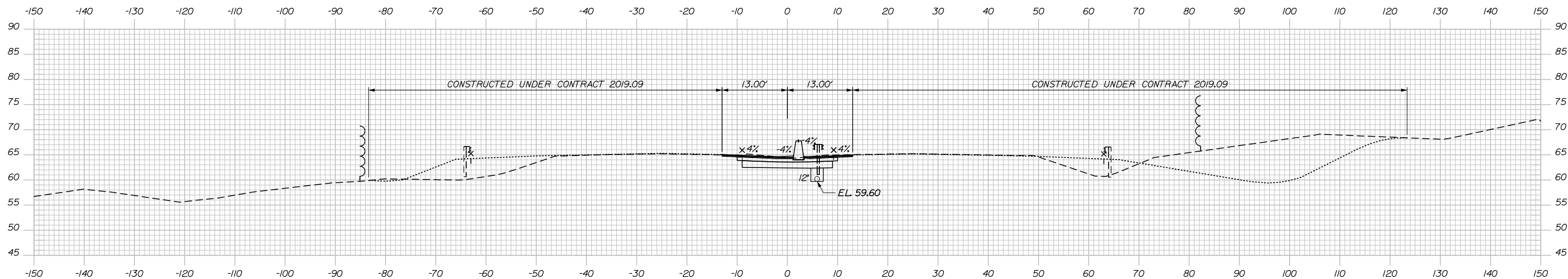
Date: 9/8/2021

MEDIAN
 C = 92.4 CY
 F = 17.4 CY
 R = 13.8 CY
 G = 0 CY
 M = 0 CY

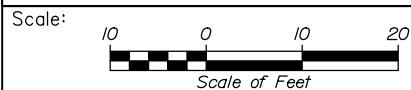


2315+50.00

MEDIAN
 C = 107.2 CY
 F = 34.5 CY
 R = 22.5 CY
 G = 0 CY
 M = 0 CY



2315+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2315+00 TO STA. f 2315+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

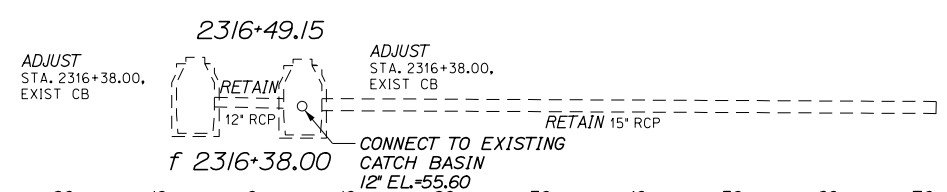
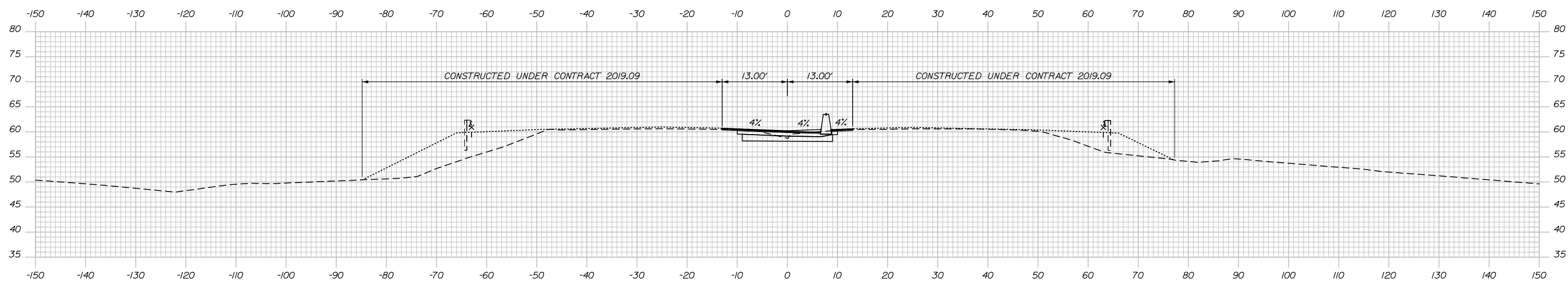
CONTRACT: 2021.08

146 OF 376

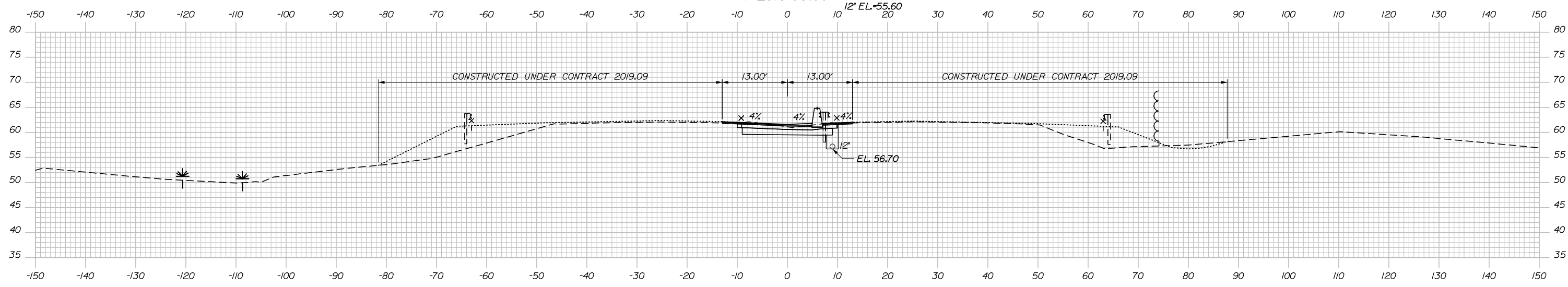
Filename: PAW2_Cross_Section_22e.dgn

Date: 9/8/2021

MEDIAN
 C = 66.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

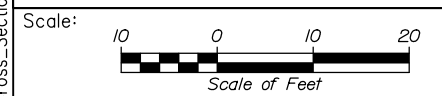


MEDIAN
 C = 77.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_221.dgn

2316+00.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. f 2316+00 TO STA. g 2316+49

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

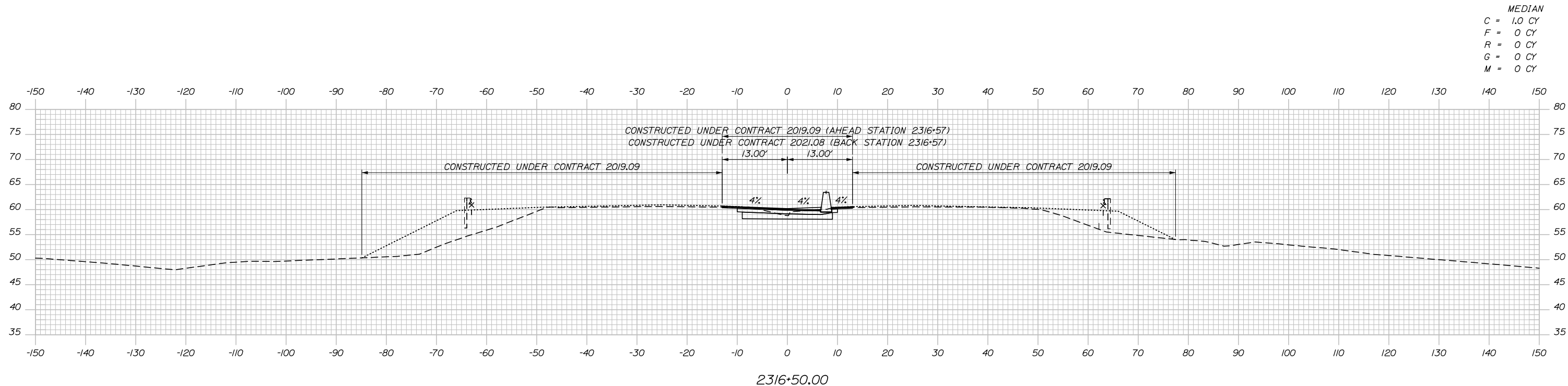
CONTRACT: 2021.08

SHEET NUMBER:

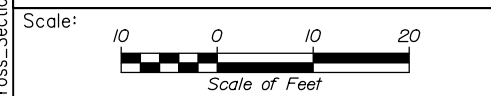
147 OF 376

Date: 9/8/2021

Filename: PAW2_Cross_Section_22g.dgn



2316+50.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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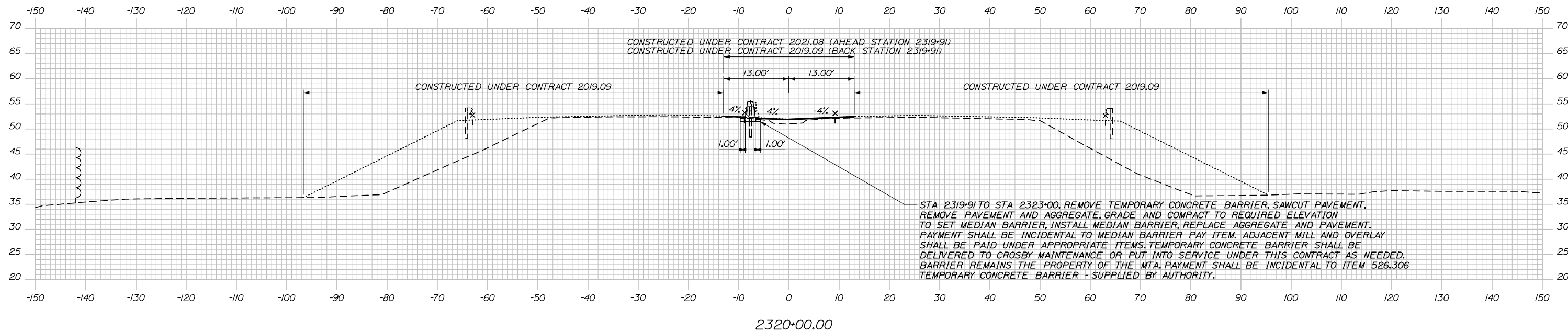
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2316+50

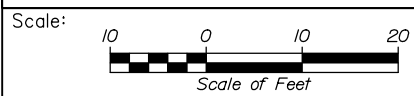
SHEET NUMBER:
 CONTRACT: 2021.08 148 OF 376

Date: 9/8/2021

MEDIAN
 C = 1.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_25.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2320+00

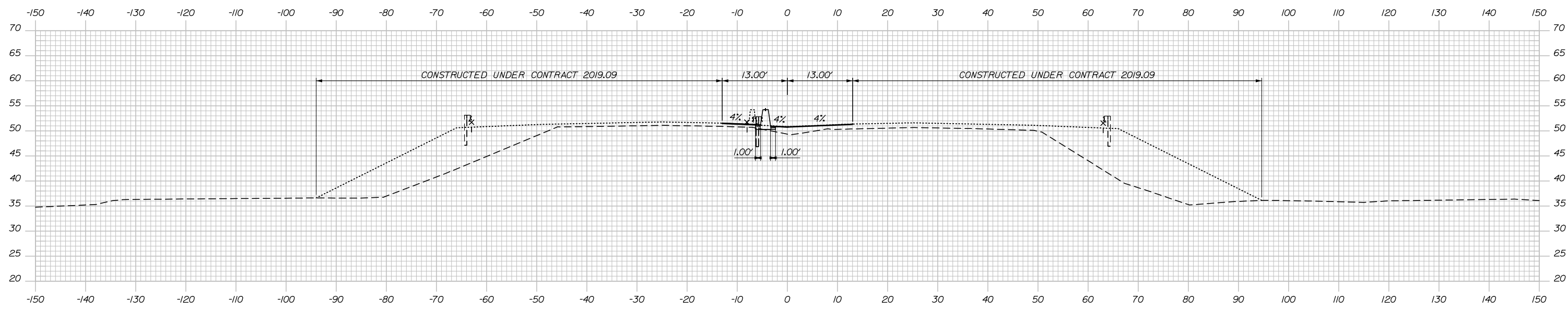
SHEET NUMBER:
 149 OF 376

CONTRACT: 2021.08

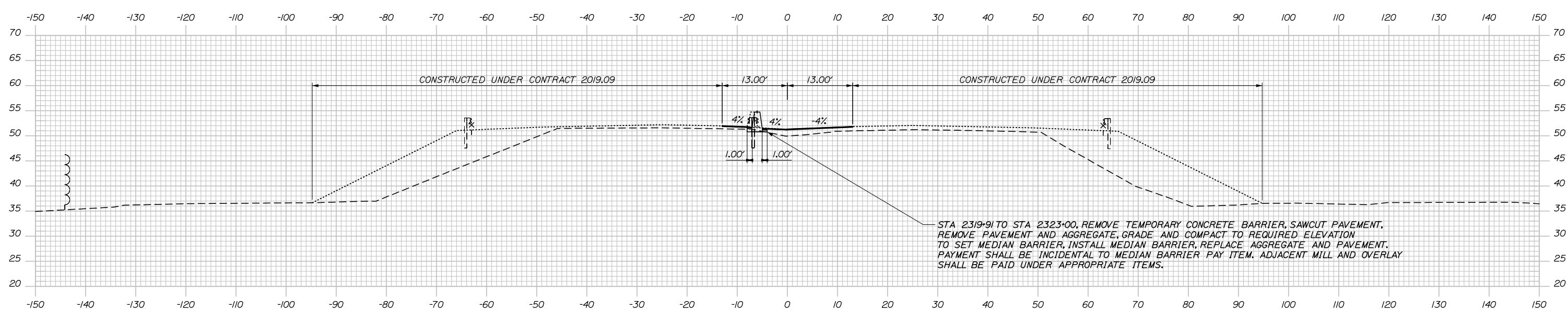
Date: 9/8/2021

ADJUST
STA. 2321+15.00,
EXIST CB
2321+15.00

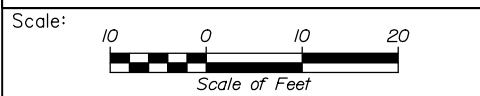
MEDIAN
C = 7.9 CY
F = 0 CY
R = 0 CY
G = 0 CY
M = 0 CY



MEDIAN
C = 7.8 CY
F = 0 CY
R = 0 CY
G = 0 CY
M = 0 CY



Filename: PAW2_Cross_Section_26.dgn



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. g 2320+50 TO STA. g 2321+00
SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

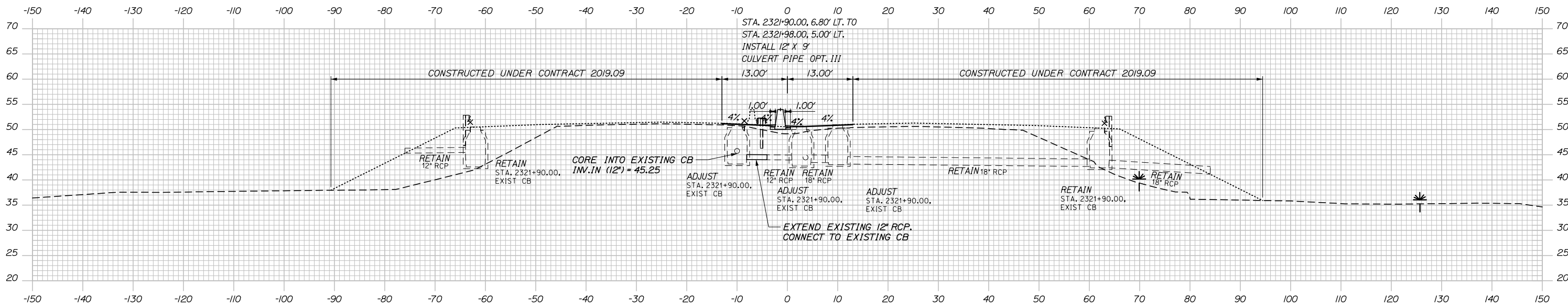
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

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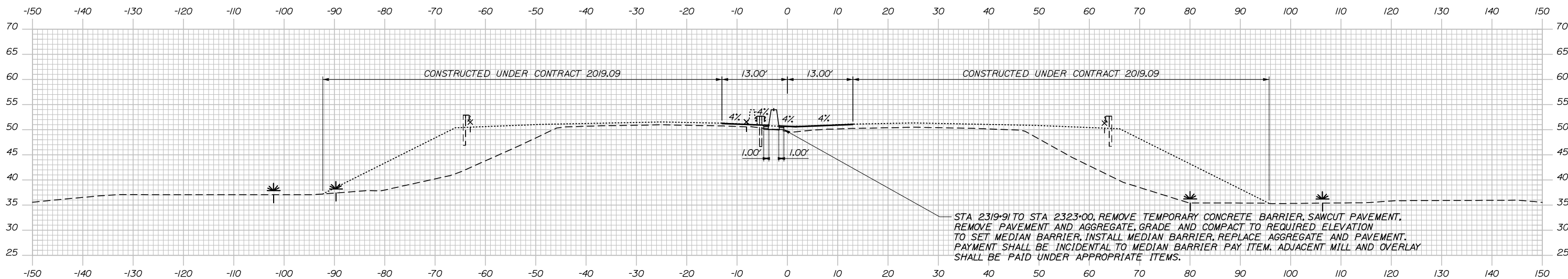
Date: 9/8/2021

MEDIAN
 C = 5.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



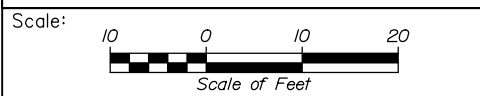
2321+90.00

MEDIAN
 C = 7.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2321+50.00

Filename: PAW2_Cross_Section_27.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

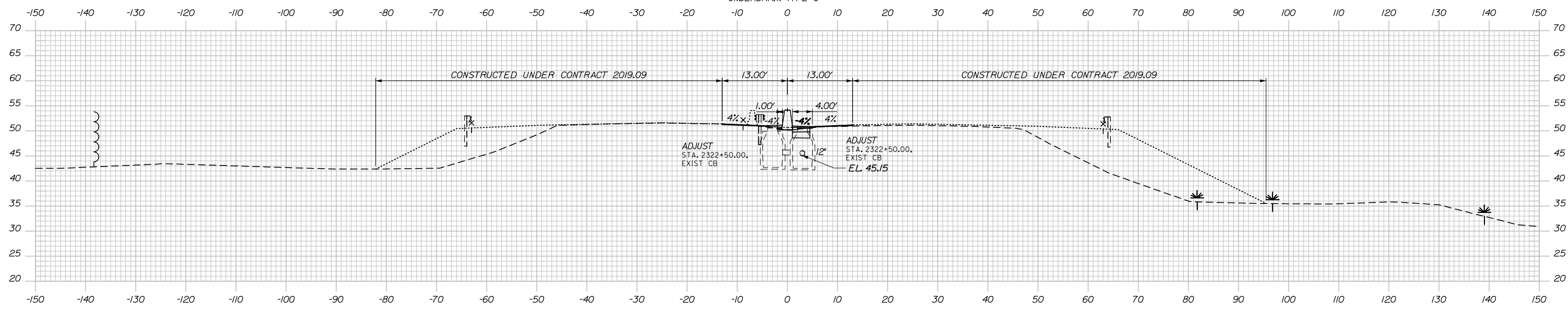
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2321+50 TO STA. g 2321+89
 SHEET NUMBER:
 CONTRACT: 2021.08
 151 OF 376

Date: 9/8/2021

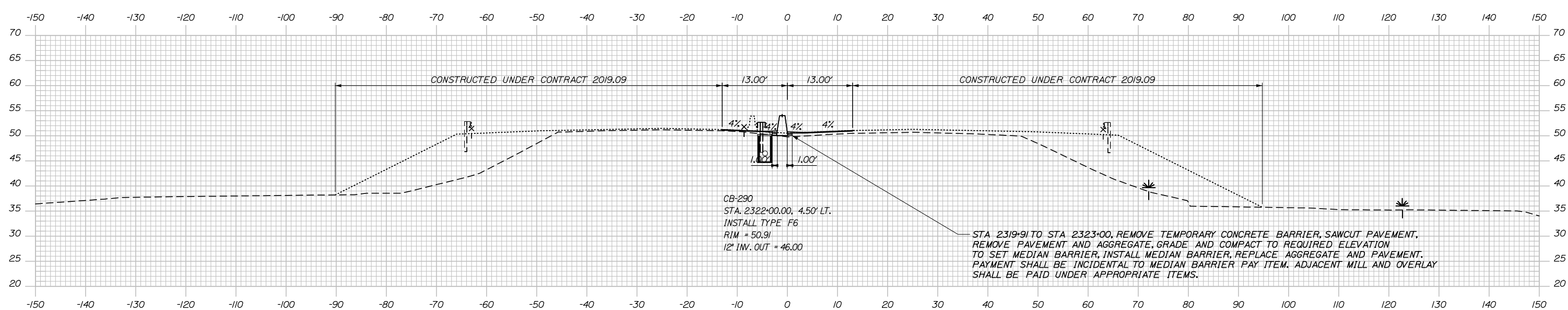
MEDIAN
 C = 6.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

STA. 2322+52.00, 4.00' RT. TO
 STA. 2324+49.00, 4.08' RT.
 INSTALL 12" X 197"
 UNDERDRAIN TYPE C



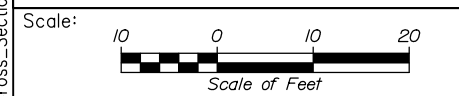
2322+50.00

MEDIAN
 C = 1.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2322+00.00

Filename: PAW2_Cross_Section_28.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

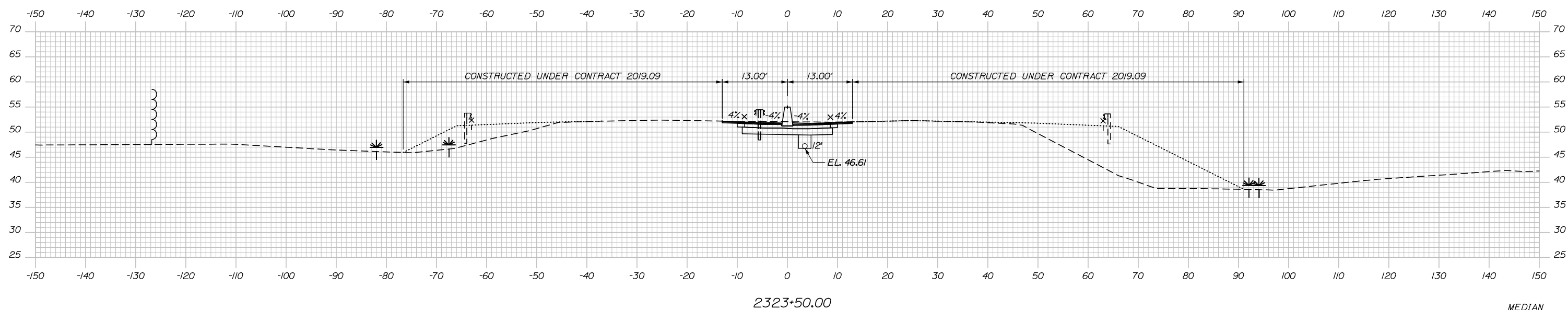
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2322+00 TO STA. g 2322+50

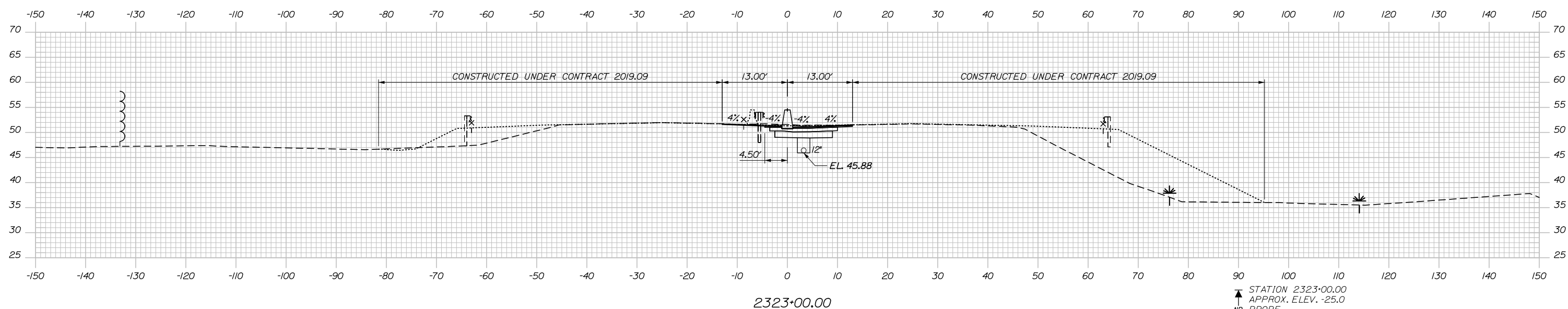
SHEET NUMBER:
 CONTRACT: 2021.08 152 OF 376

Date: 9/8/2021

MEDIAN
 C = 77.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

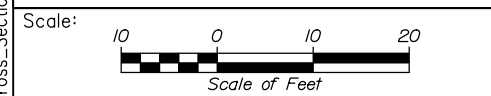


MEDIAN
 C = 33.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



↑ STATION 2323+00.00
 APPROX. ELEV. -25.0
 NR PROBE

Filename: PAW2_Cross_Section_29.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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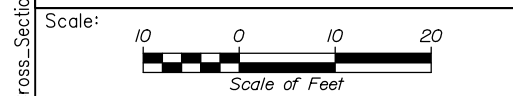
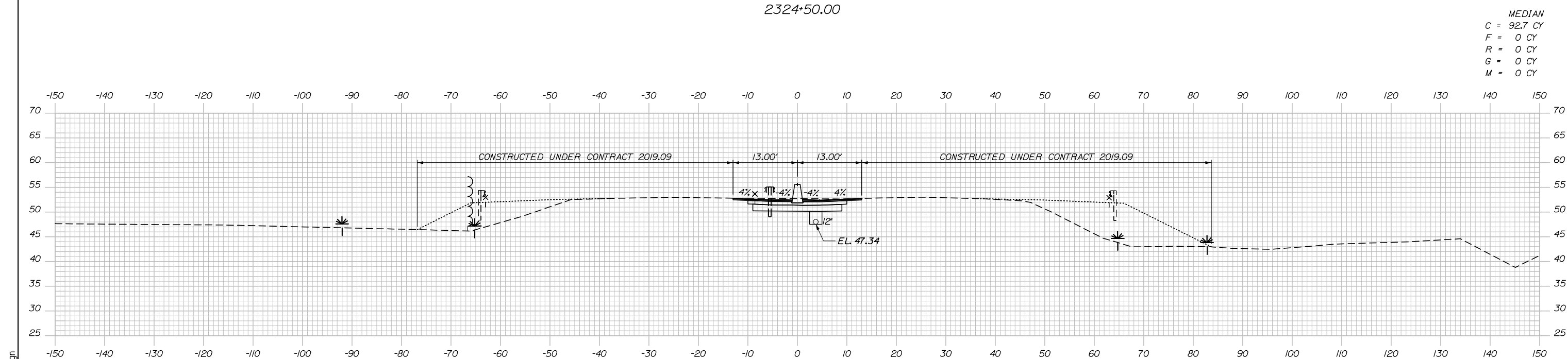
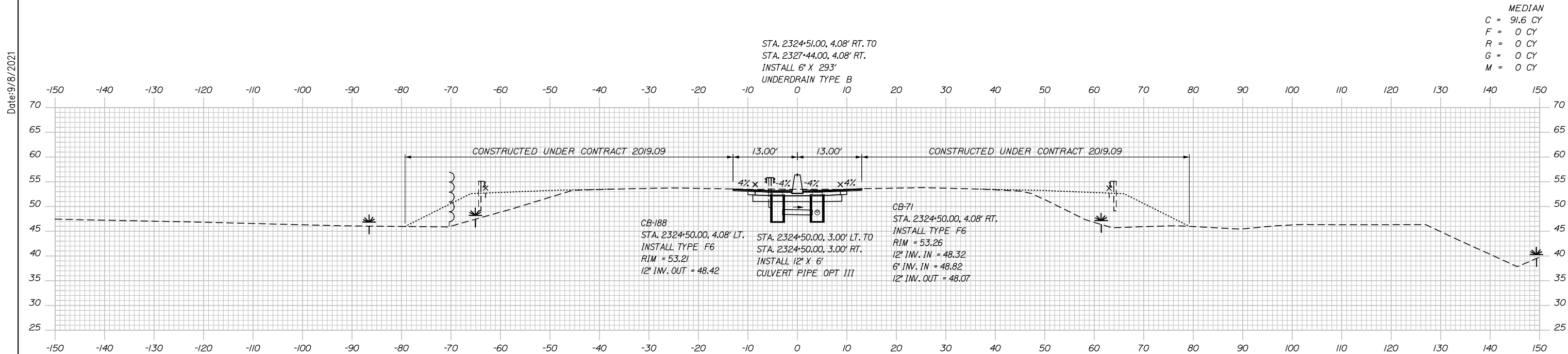
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2323+00 TO STA. g 2323+50

SHEET NUMBER:
 CONTRACT: 2021.08 153 OF 376

Date: 9/8/2021



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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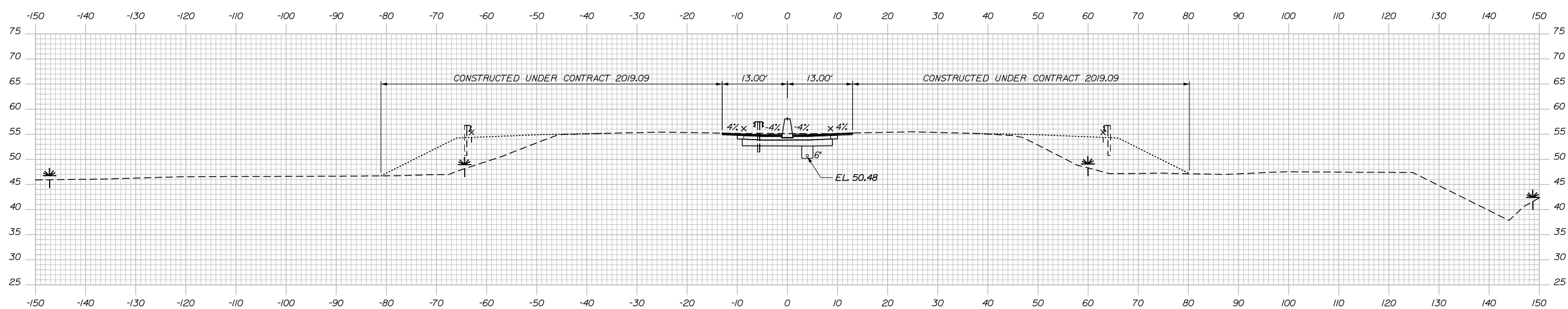
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. g 2324+00 TO STA. g 2324+50

SHEET NUMBER:
CONTRACT: 2021.08

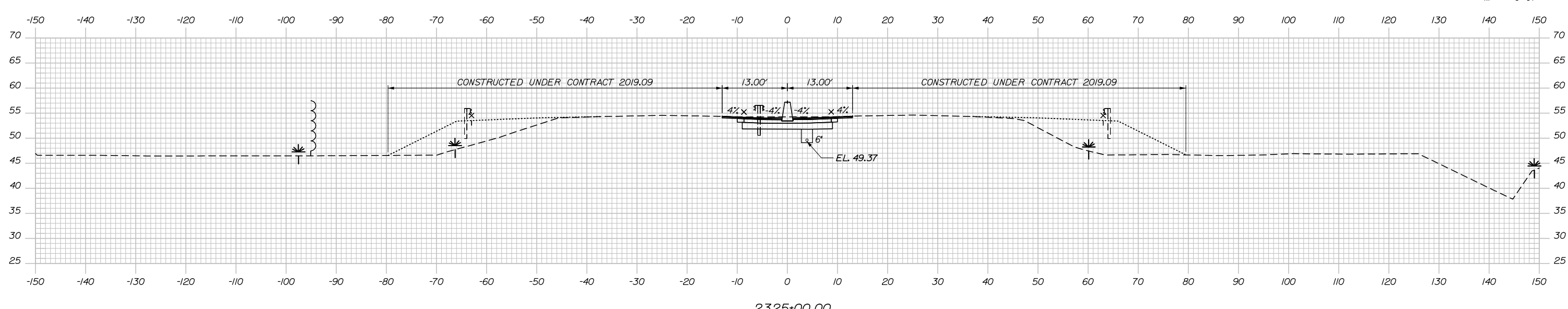
Date: 9/8/2021

MEDIAN
 C = 90.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



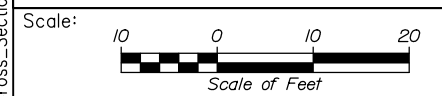
2325+50.00

MEDIAN
 C = 90.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2325+00.00

Filename: PAW2_Cross_Section_31.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2325+00 TO STA. g 2325+50
 SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

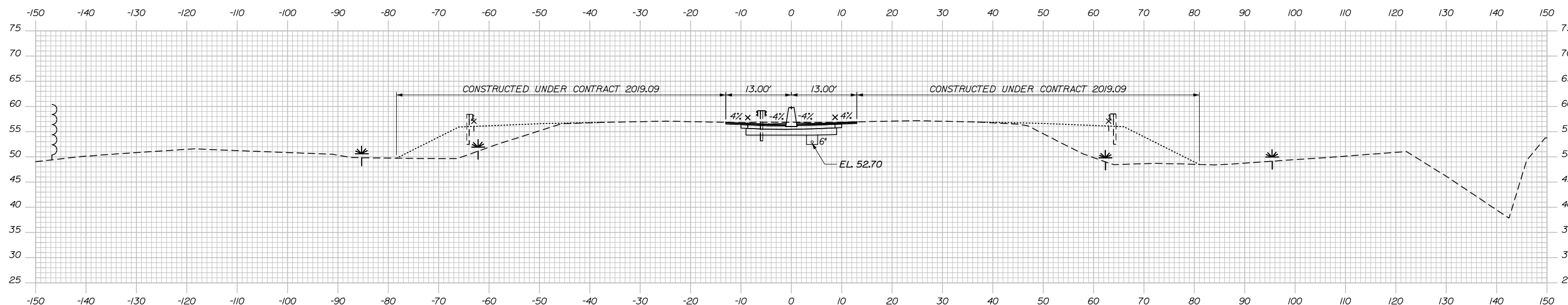
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

155 OF 376

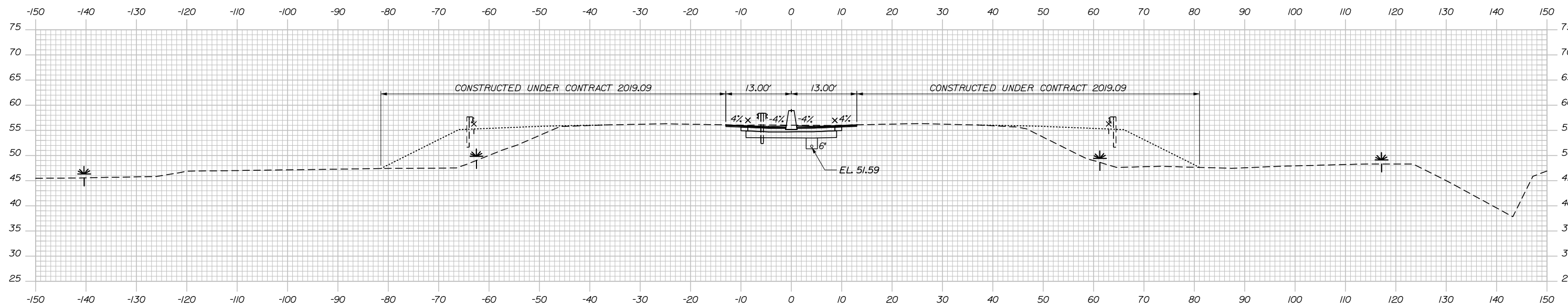
Date: 9/8/2021

MEDIAN
 C = 92.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



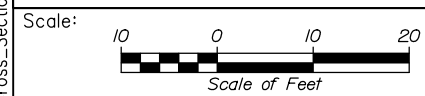
2326+50.00

MEDIAN
 C = 91.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2326+00.00

Filename: PAW2_Cross_Section_32.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2326+00 TO STA. g 2326+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

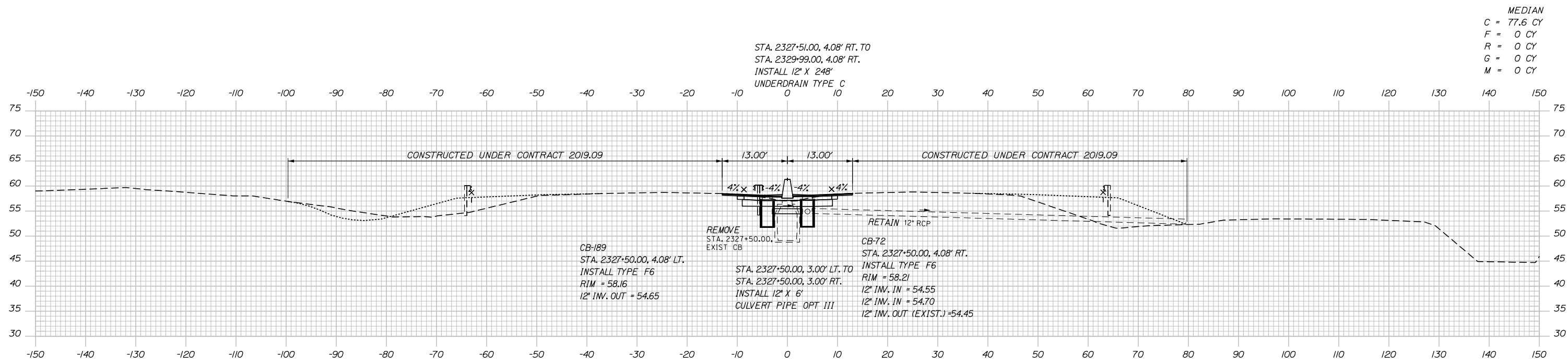
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

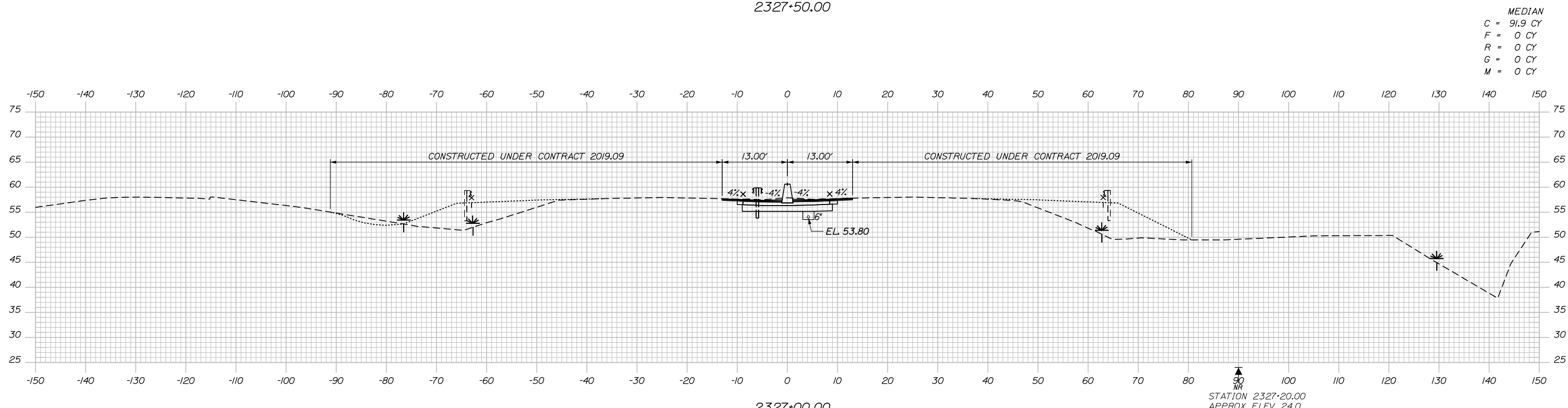
SHEET NUMBER:

156 OF 376

Date: 9/8/2021

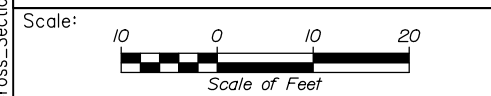


MEDIAN
 C = 77.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



MEDIAN
 C = 91.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

Filename: PAW2_Cross_Section_33.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

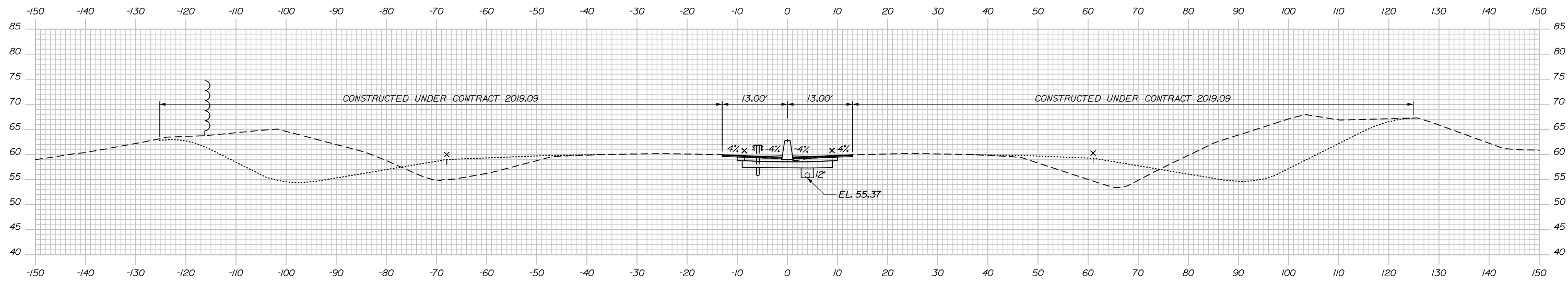
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2327+00 TO STA. g 2327+50

SHEET NUMBER:
 157 OF 376

CONTRACT: 2021.08

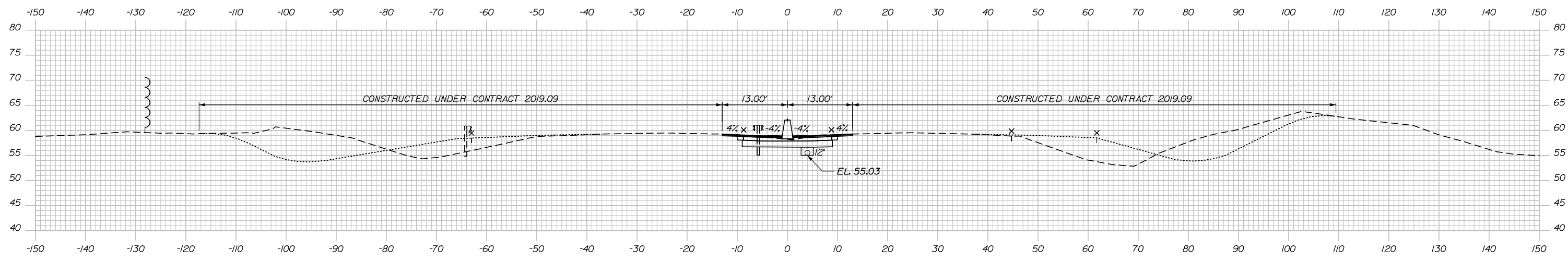
Date: 9/8/2021

MEDIAN
 C = 73.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



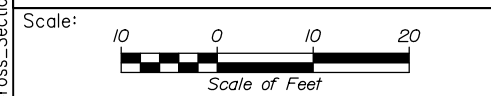
2328+50.00

MEDIAN
 C = 69.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2328+00.00

Filename: PAW2_Cross_Section_34.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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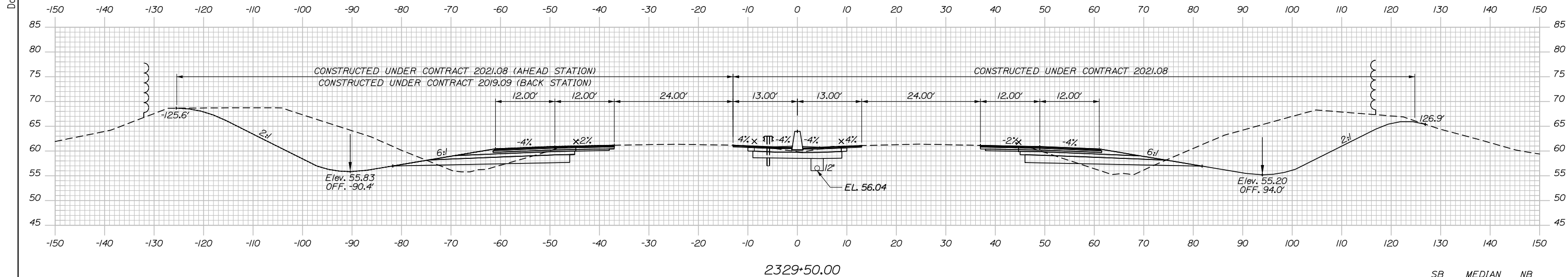
**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

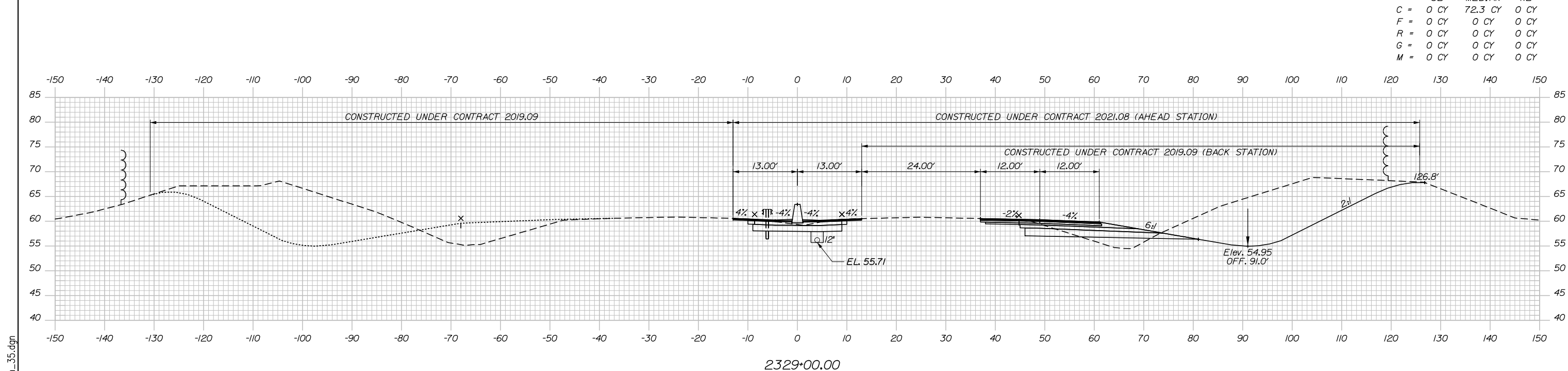
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2328+00 TO STA. g 2328+50

SHEET NUMBER:
 CONTRACT: 2021.08

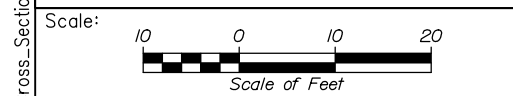
Date: 9/8/2021



	SB	MEDIAN	NB
C =	0 CY	71.3 CY	639.3 CY
F =	0 CY	0 CY	35.3 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	14.9 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C =	0 CY	72.3 CY	0 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
 TEL (207) 774-5155
 FAX (207) 228-0909

MAINE TURNPIKE

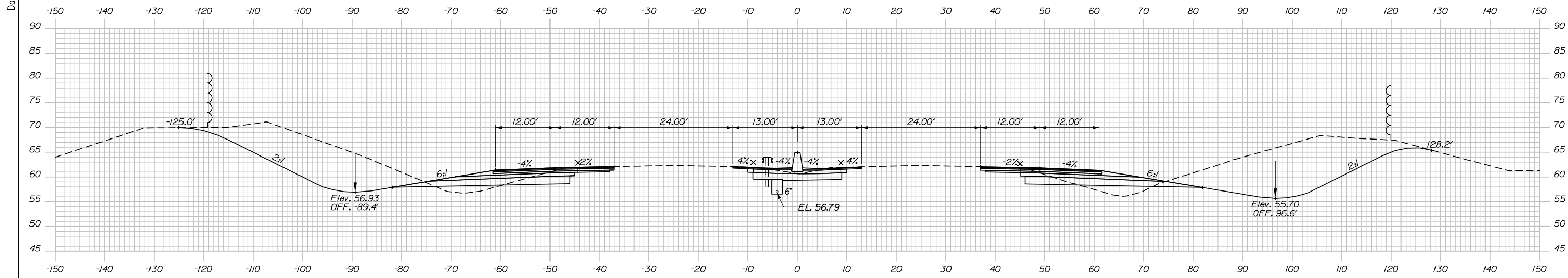
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2329+00 TO STA. g 2329+50
 SHEET NUMBER:
 CONTRACT: 2021.08 159 OF 376

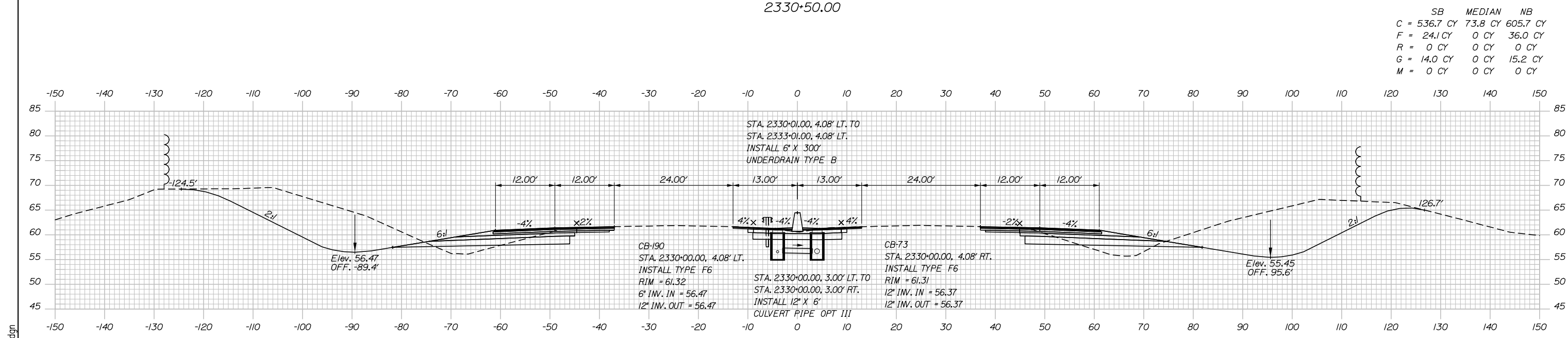
Filename: PAW2_Cross_Section_35.dgn

Date: 9/8/2021



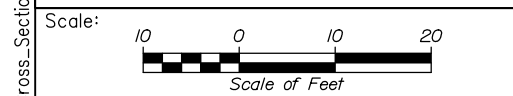
	SB	MEDIAN	NB
C	532.0 CY	73.8 CY	605.1 CY
F	24.1 CY	0 CY	34.7 CY
R	0 CY	0 CY	0 CY
G	14.0 CY	0 CY	15.1 CY
M	0 CY	0 CY	0 CY

2330+50.00



	SB	MEDIAN	NB
C	536.7 CY	73.8 CY	605.7 CY
F	24.1 CY	0 CY	36.0 CY
R	0 CY	0 CY	0 CY
G	14.0 CY	0 CY	15.2 CY
M	0 CY	0 CY	0 CY

2330+00.00



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

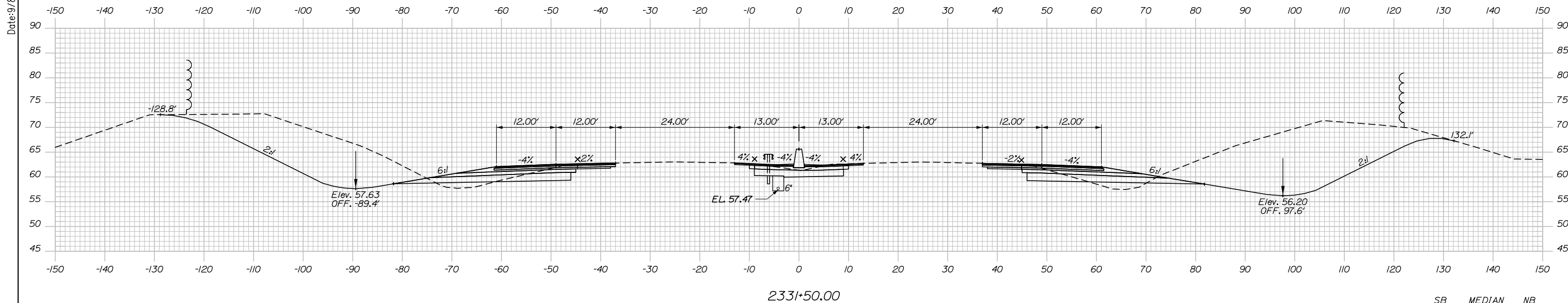
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

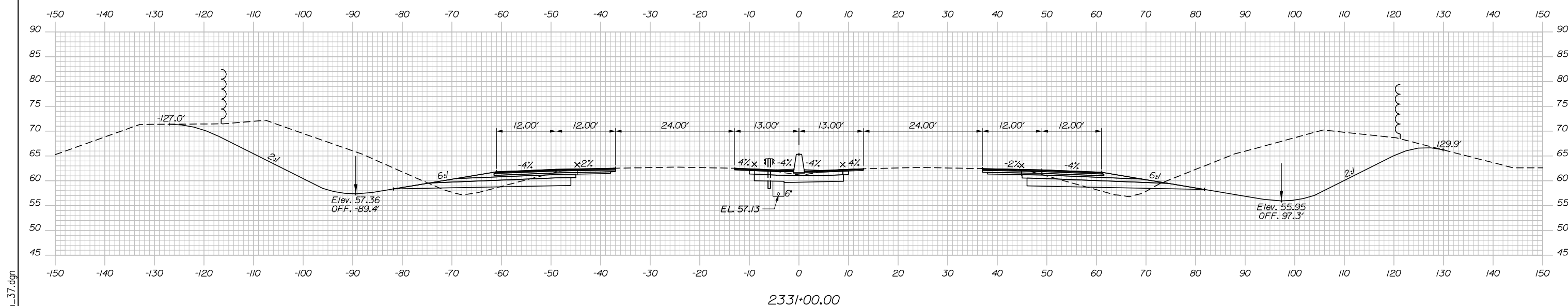
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2330+00 TO STA. g 2330+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 160 OF 376

Filename: PAW2_Cross_Section_36.dgn

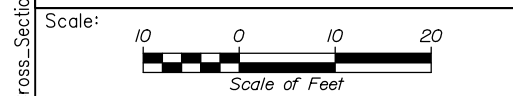
Date: 9/8/2021



	SB	MEDIAN	NB
C	619.7 CY	71.2 CY	828.9 CY
F	18.0 CY	0 CY	22.2 CY
R	0 CY	0 CY	0 CY
G	12.7 CY	0 CY	12.7 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	570.1 CY	72.1 CY	706.5 CY
F	21.1 CY	0 CY	29.1 CY
R	0 CY	0 CY	0 CY
G	13.4 CY	0 CY	14.3 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

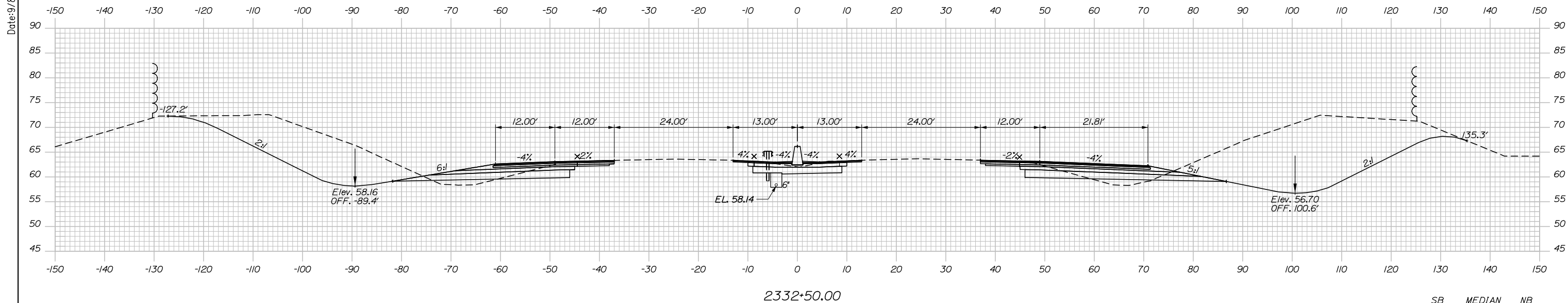
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

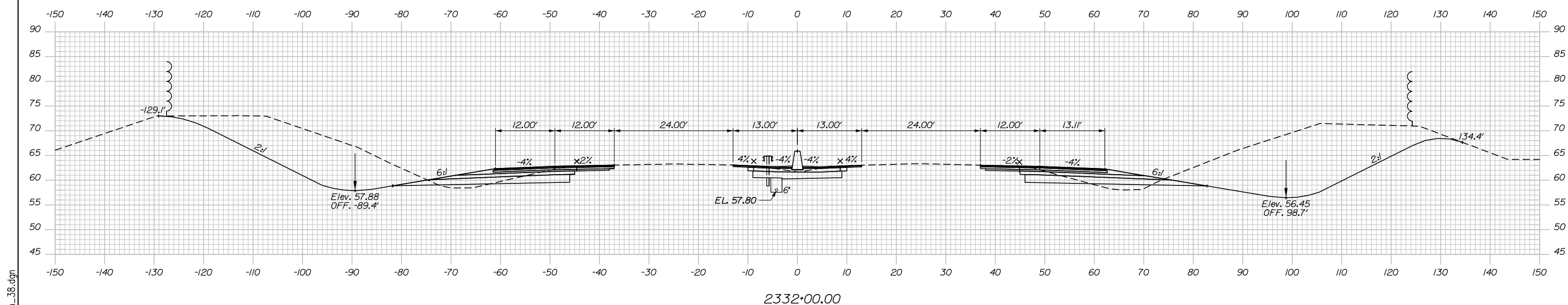
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2331+00 TO STA. g 2331+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 161 OF 376

Filename: PAW2_Cross_Section_37.dgn

Date: 9/8/2021

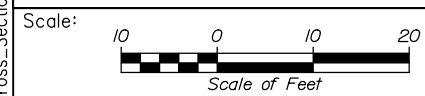


	SB	MEDIAN	NB
C	611.8 CY	71.2 CY	917.6 CY
F	14.4 CY	0 CY	17.7 CY
R	0 CY	0 CY	0 CY
G	12.5 CY	0 CY	12.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	643.1 CY	70.3 CY	880.4 CY
F	13.7 CY	0 CY	19.0 CY
R	0 CY	0 CY	0 CY
G	11.9 CY	0 CY	12.4 CY
M	0 CY	0 CY	0 CY

Filename: PAW2_Cross_Section_38.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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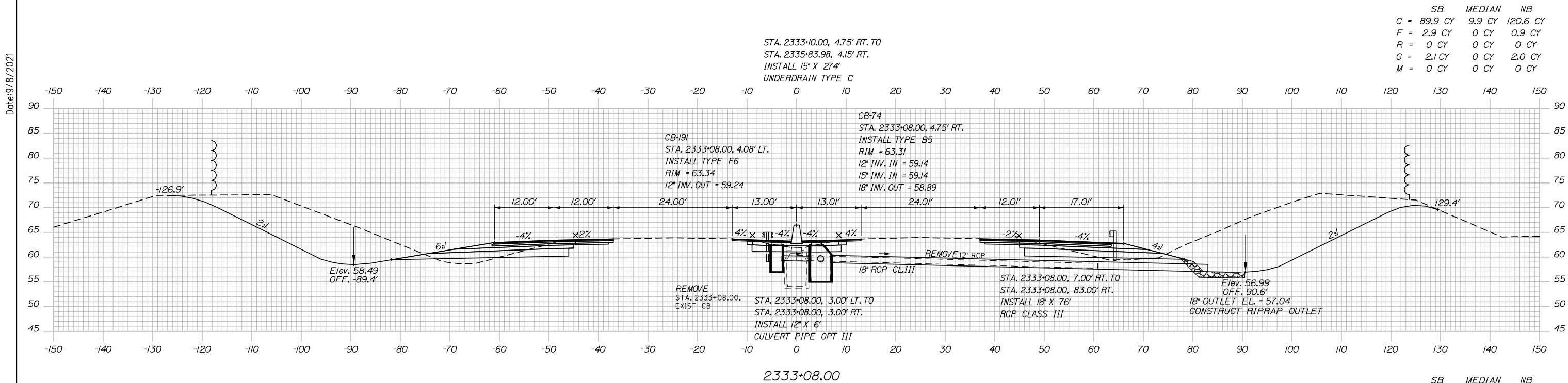
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

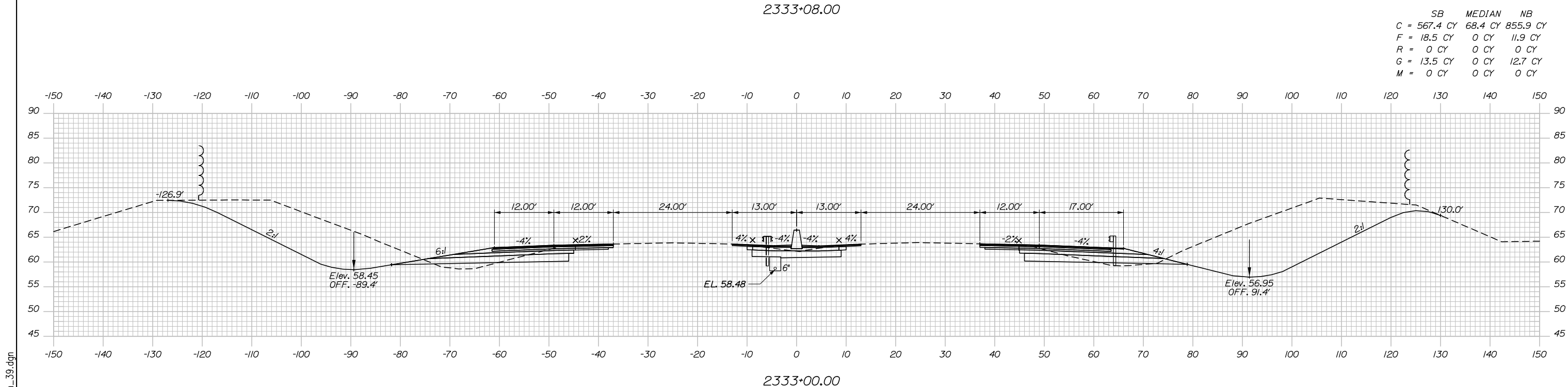
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. g 2332+00 TO STA. g 2332+50
SHEET NUMBER:
CONTRACT: 2021.08

162 OF 376

Date: 9/8/2021



	SB	MEDIAN	NB
C	89.9 CY	9.9 CY	120.6 CY
F	2.9 CY	0 CY	0.9 CY
R	0 CY	0 CY	0 CY
G	2.1 CY	0 CY	2.0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	567.4 CY	68.4 CY	855.9 CY
F	18.5 CY	0 CY	11.9 CY
R	0 CY	0 CY	0 CY
G	13.5 CY	0 CY	12.7 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

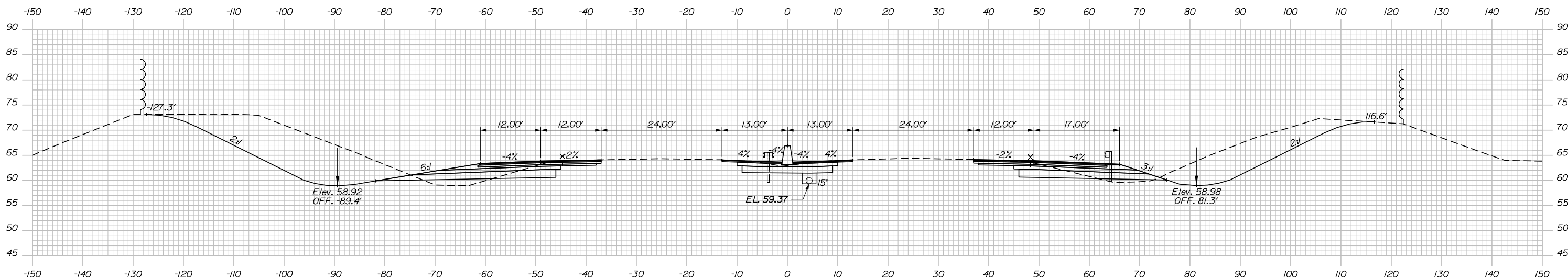
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2333+00 TO STA. g 2333+08
 SHEET NUMBER:
 CONTRACT: 2021.08 163 OF 376

Filename: PAW2_Cross_Section_39.dgn

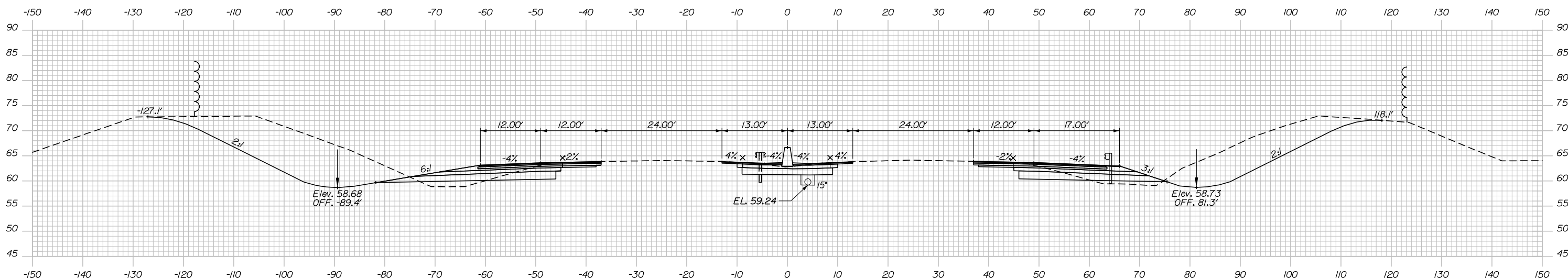
Date: 9/8/2021

	SB	MEDIAN	NB
C	584.1 CY	73.9 CY	382.4 CY
F	21.7 CY	0 CY	12.0 CY
R	0 CY	0 CY	0 CY
G	13.9 CY	0 CY	13.2 CY
M	0 CY	0 CY	0 CY



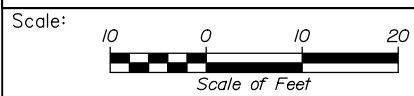
2334+00.00

	SB	MEDIAN	NB
C	485.8 CY	55.9 CY	481.7 CY
F	16.0 CY	0 CY	8.4 CY
R	0 CY	0 CY	0 CY
G	11.2 CY	0 CY	11.1 CY
M	0 CY	0 CY	0 CY



2333+50.00

Filename: PAW2_Cross_Section_40.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2333+50 TO STA. g 2334+00
 SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS
Drawn	By GW	Date 09\21	In Charge of TRC

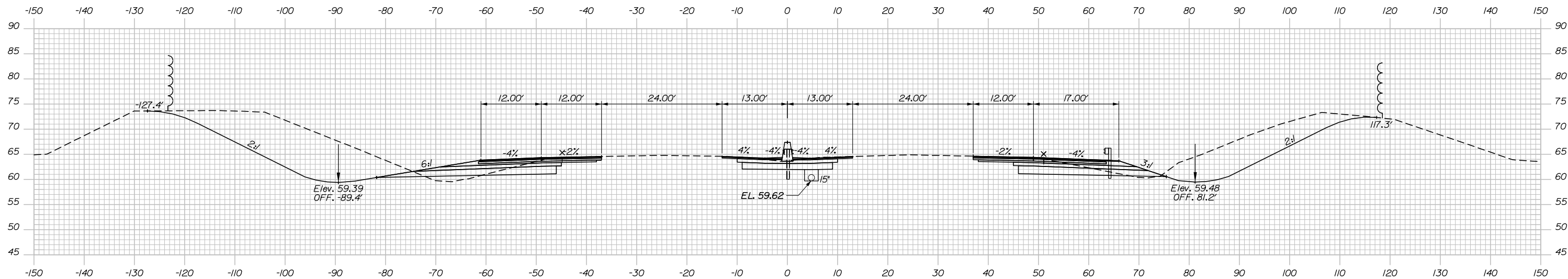
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

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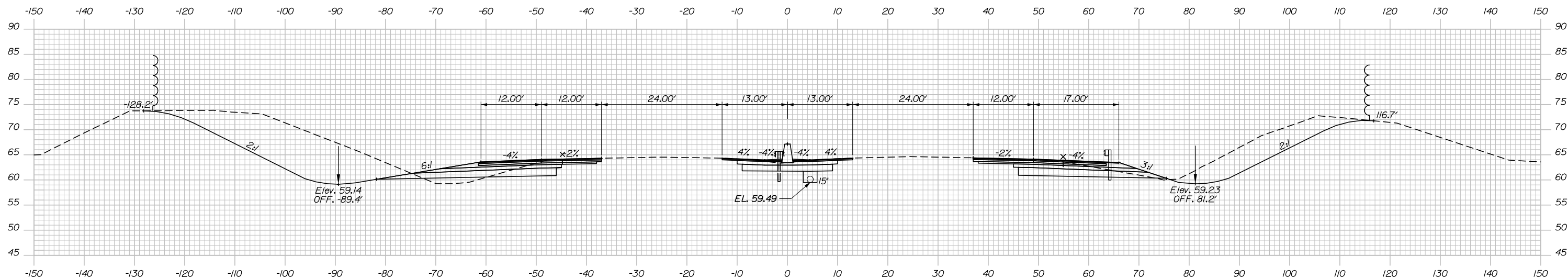
Date: 9/8/2021

	SB	MEDIAN	NB
C	599.2 CY	76.1 CY	382.0 CY
F	17.1 CY	0 CY	1.6 CY
R	0 CY	0 CY	0 CY
G	12.5 CY	0 CY	5.3 CY
M	0 CY	0 CY	0 CY



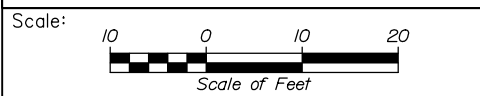
2335+00.00

	SB	MEDIAN	NB
C	588.5 CY	74.1 CY	360.6 CY
F	21.2 CY	0 CY	4.8 CY
R	0 CY	0 CY	0 CY
G	13.7 CY	0 CY	7.8 CY
M	0 CY	0 CY	0 CY



2334+50.00

Filename: PAW2_Cross_Section_41.dgn



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

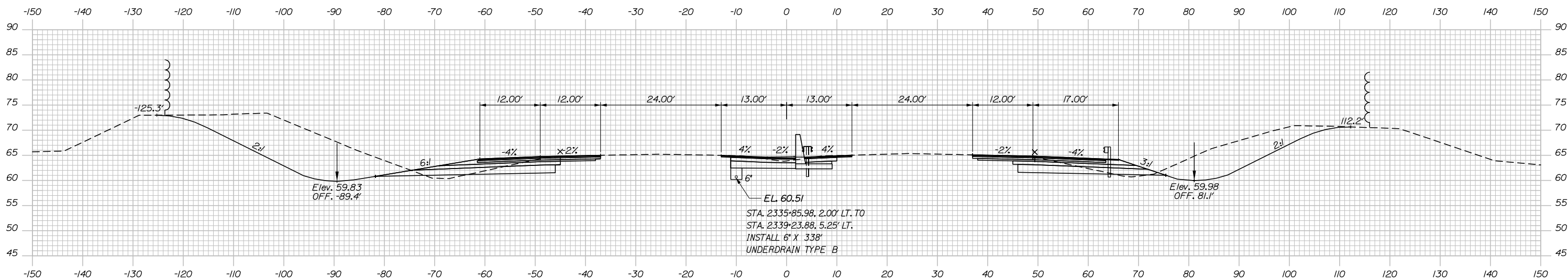
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2334+50 TO STA. g 2335+00

SHEET NUMBER:
 CONTRACT: 2021.08
 165 OF 376

Date: 9/8/2021

	SB	MEDIAN	NB
C	567.8 CY	76.0 CY	330.1 CY
F	11.4 CY	0 CY	3.7 CY
R	0 CY	0 CY	0 CY
G	10.8 CY	0 CY	8.8 CY
M	0 CY	0 CY	0 CY



STA. 2335+84.98, 1.00' LT. TO
STA. 2335+84.98, 3.15' RT.
INSTALL 12" X 6'
CULVERT PIPE OPT III

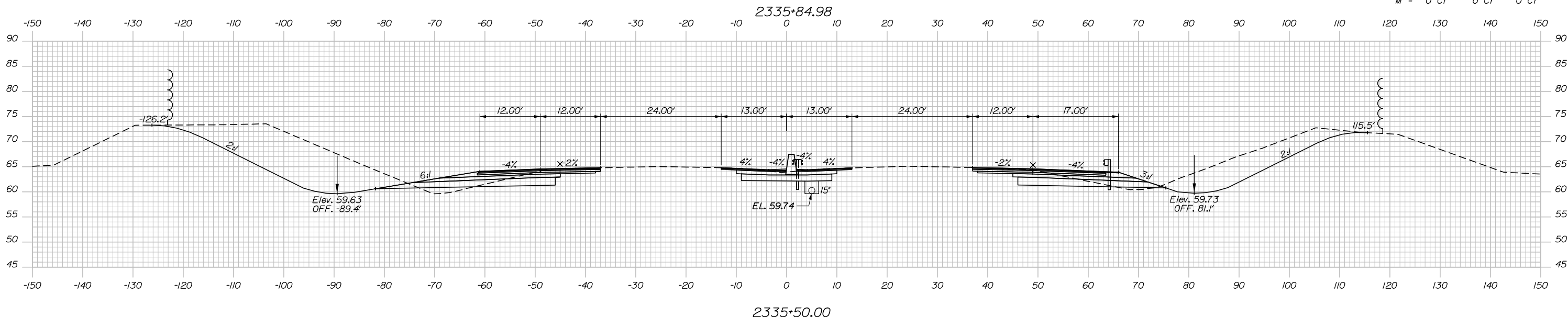
CB-192
STA. 2335+84.98, 2.00' LT.
INSTALL TYPE F6
RIM = 64.53
6" INV. IN = 60.43
12" INV. OUT = 59.93

2336+00.00



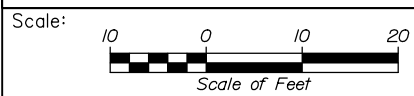
CB-75
STA. 2335+84.98, 4.15' RT.
INSTALL TYPE F6
RIM = 64.59
12" INV. IN = 59.83
15" INV. OUT = 59.83

	SB	MEDIAN	NB
C	586.6 CY	77.4 CY	369.1 CY
F	14.9 CY	0 CY	3.3 CY
R	0 CY	0 CY	0 CY
G	11.9 CY	0 CY	8.1 CY
M	0 CY	0 CY	0 CY



2335+50.00

Filename: PAW2_Cross_Section_42.dgn



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. g 2335+50 TO STA. g 2336+00

No.	Revision	By	Date

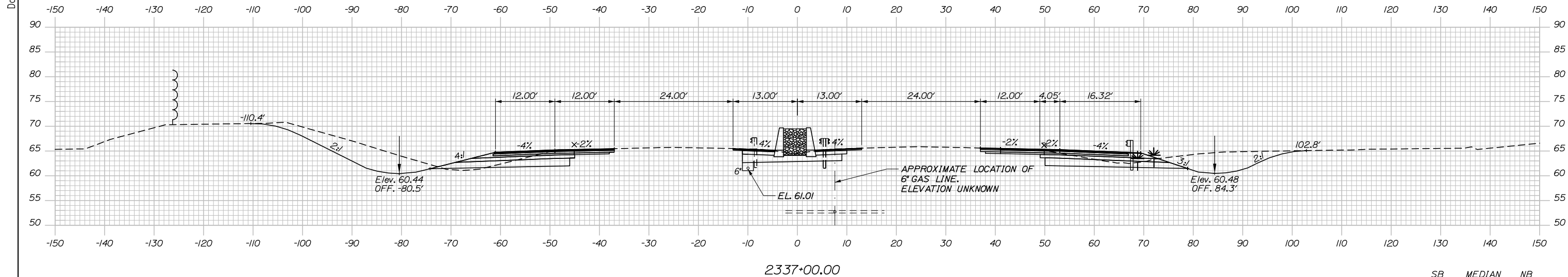
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

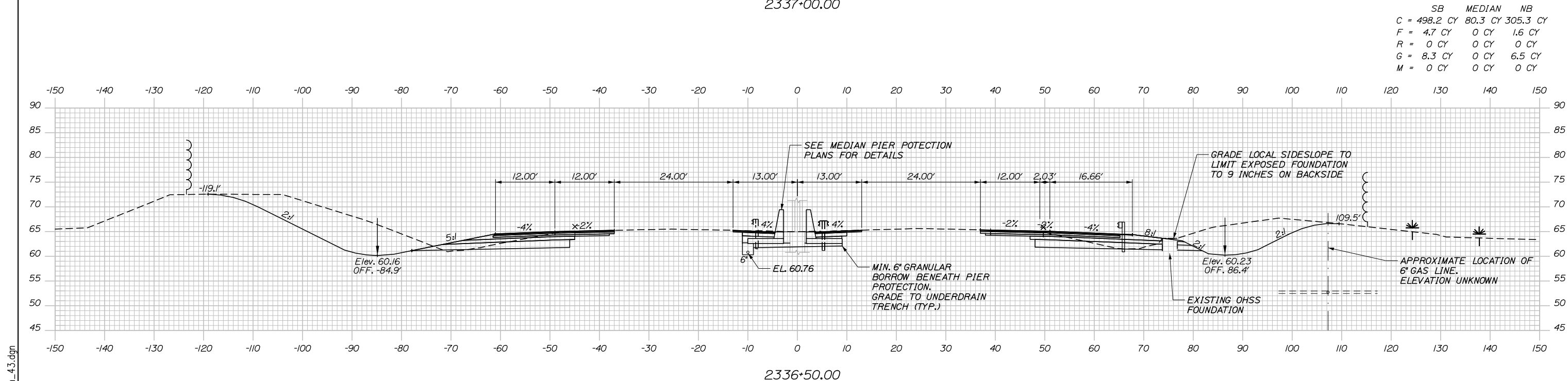
CONTRACT: 2021.08

166 OF 376

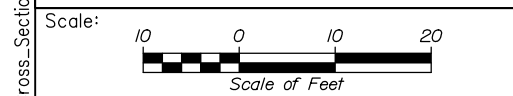
Date: 9/8/2021



	SB	MEDIAN	NB
C	343.7 CY	81.4 CY	253.9 CY
F	3.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	8.3 CY	0 CY	2.3 CY
M	0 CY	0 CY	4.5 CY



	SB	MEDIAN	NB
C	498.2 CY	80.3 CY	305.3 CY
F	4.7 CY	0 CY	1.6 CY
R	0 CY	0 CY	0 CY
G	8.3 CY	0 CY	6.5 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2336+50 TO STA. g 2337+00

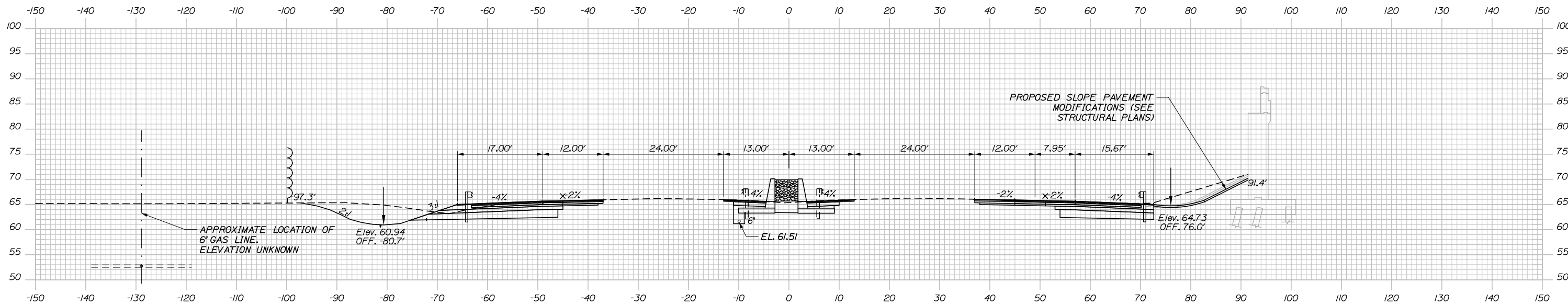
SHEET NUMBER:
 167 OF 376

CONTRACT: 2021.08

Filename: PAW2_Cross_Section_4.3.dgn

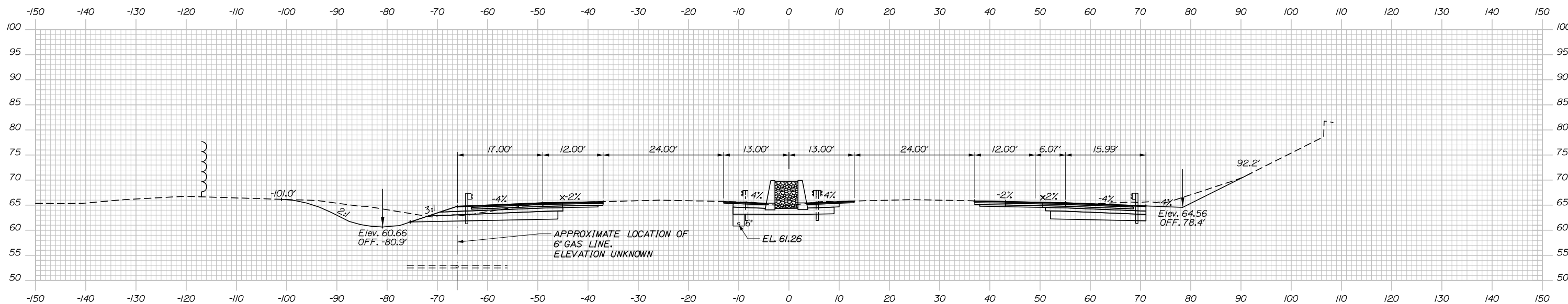
Date: 9/8/2021

	SB	MEDIAN	NB
C	225.2 CY	80.6 CY	159.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



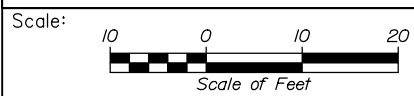
2338+00.00

	SB	MEDIAN	NB
C	240.4 CY	77.6 CY	205.7 CY
F	2.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	4.9 CY	0 CY	0 CY
M	0 CY	0 CY	4.5 CY



2337+50.00

Filename: PAW2_Cross_Section_44.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. g 2337+50 TO STA. h 2338+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	JS	09\21	Checked
Drawn	GW	09\21	In Charge of
			TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

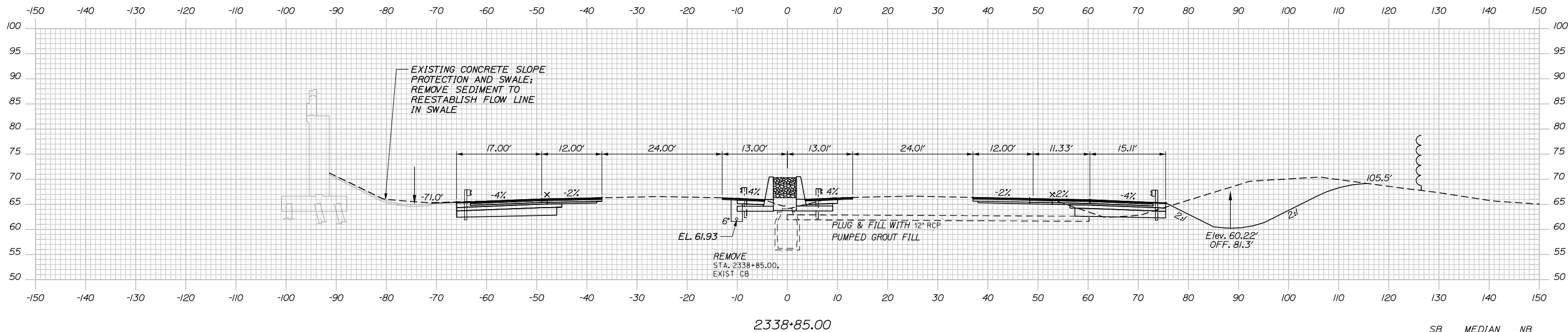
CONTRACT: 2021.08

SHEET NUMBER:

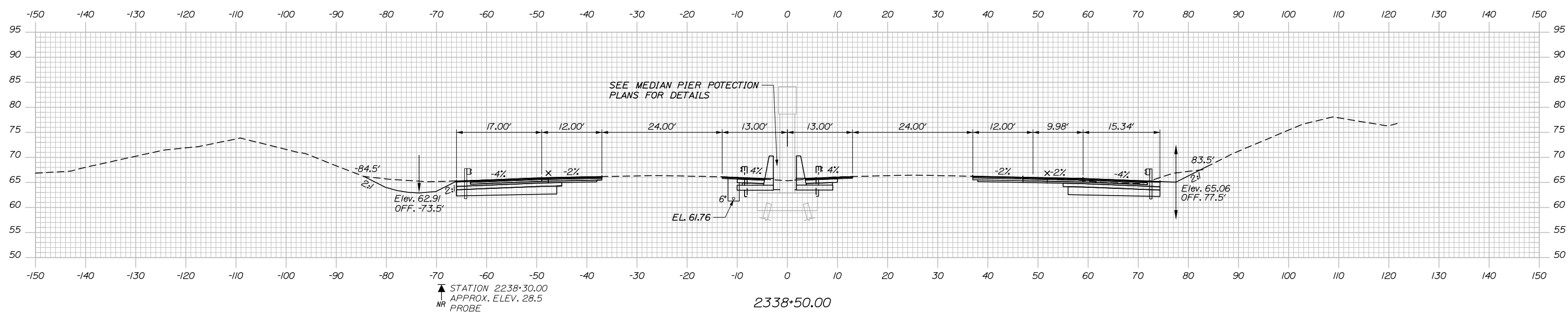
168 OF 376

Date: 9/8/2021

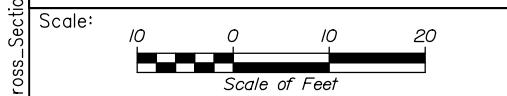
	SB	MEDIAN	NB
C	102.7 CY	48.6 CY	93.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	191.6 CY	80.0 CY	140.6 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



STATION 2338+30.00
APPROX. ELEV. 28.5
NR PROBE



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	JS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

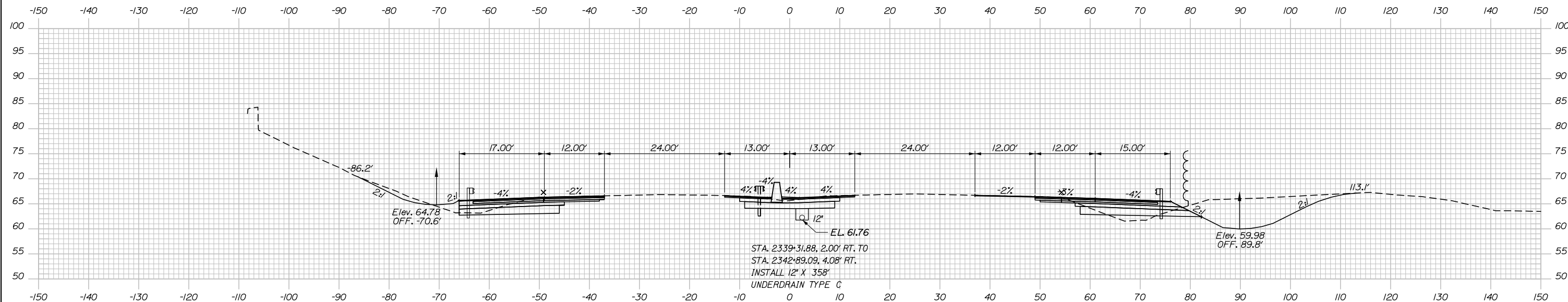
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. h 2338+50 TO STA. h 2338+85

SHEET NUMBER:
CONTRACT: 2021.08
169 OF 376

Filename: PAW2_Cross_Section_45.dgn

Date: 9/8/2021

	SB	MEDIAN	NB
C	119.8 CY	75.1 CY	300.1 CY
F	5.7 CY	0 CY	9.7 CY
R	0 CY	0 CY	0 CY
G	0.3 CY	0 CY	9.4 CY
M	0 CY	0 CY	0 CY

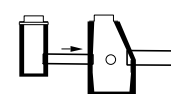


STA. 2339+29.88, 4.25' LT. TO
STA. 2339+29.88, 1.00' RT.
INSTALL 12" X 6"
CULVERT PIPE OPT III

CB-193
STA. 2339+29.88, 5.25' LT.
INSTALL TYPE F6
RIM = 66.19
12" INV. OUT = 61.69

CB-76
STA. 2339+29.88, 2.00' RT.
INSTALL TYPE B5 WITH 2' CONE
RIM = 66.15
12" INV. IN = 61.69
12" INV. IN = 61.59
18" INV. OUT = 60.43

2339+50.00

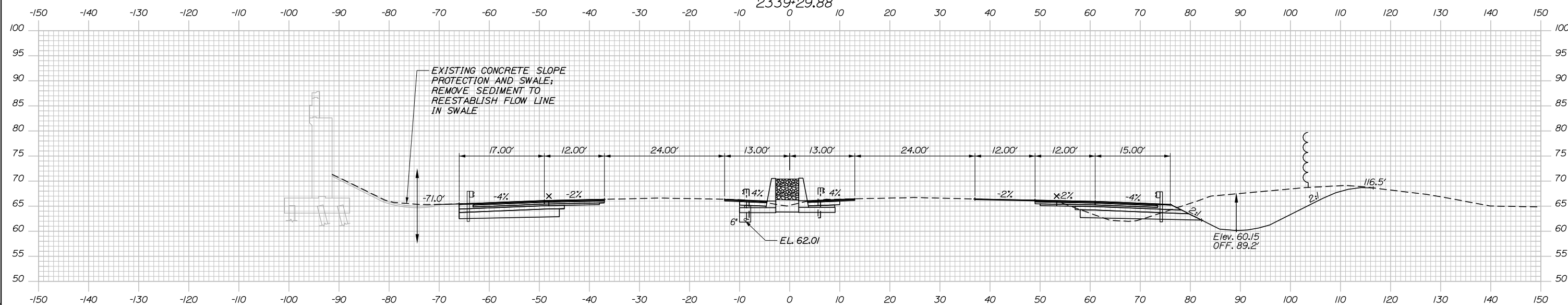


18" RCP CL.III

2339+29.88

18" OUTLET EL. = 60.03
CONSTRUCT RIPRAP OUTLET
STA. 2339+29.88, 5.00' RT. TO
STA. 2339+29.88, 89.00' RT.
INSTALL 18" X 84"
RCP CLASS III

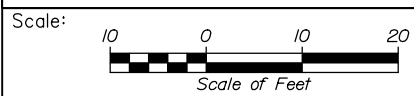
	SB	MEDIAN	NB
C	39.5 CY	20.2 CY	69.6 CY
F	0 CY	0 CY	1.1 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.1 CY
M	0 CY	0 CY	0 CY



EXISTING CONCRETE SLOPE
PROTECTION AND SWALE;
REMOVE SEDIMENT TO
REESTABLISH FLOW LINE
IN SWALE

2339+00.00

Filename: PAW2_Cross_Section_46.dgn



Designed by:



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

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. h 2339+00 TO STA. h 2339+50

No.	Revision	By	Date

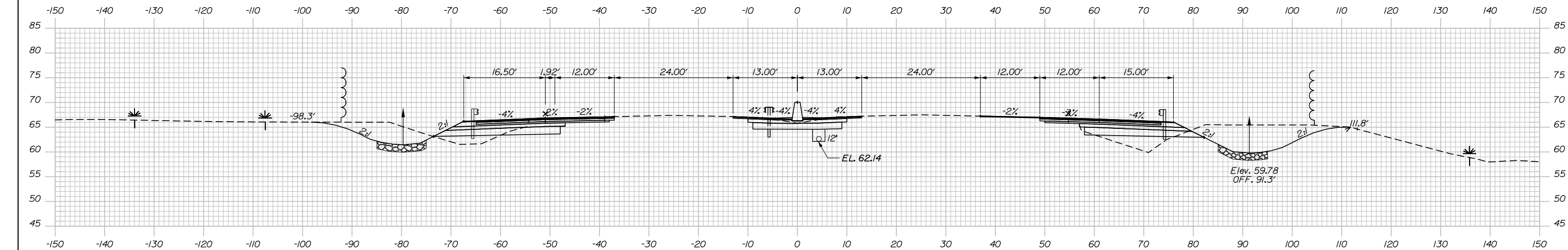
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

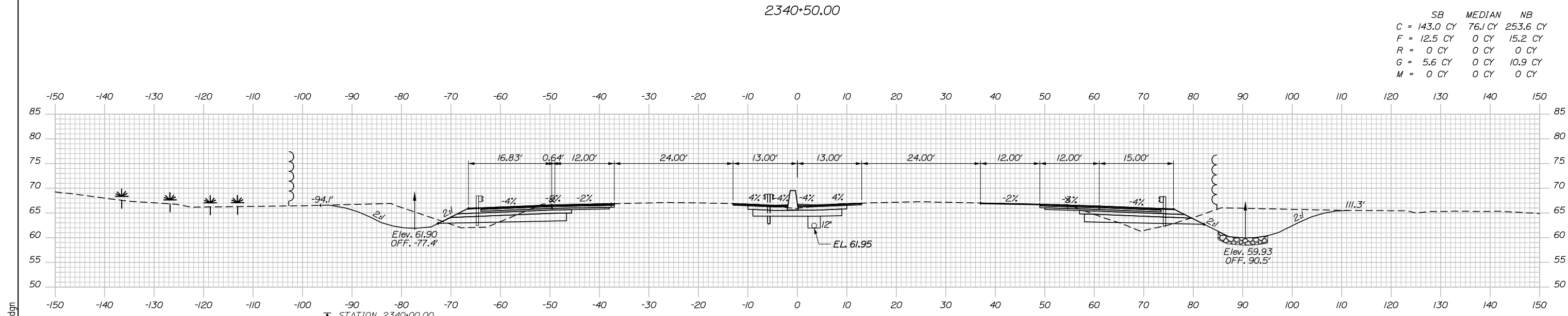
CONTRACT: 2021.08

170 OF 376

Date: 9/8/2021

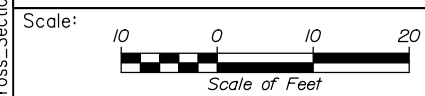


	SB	MEDIAN	NB
C	198.6 CY	73.8 CY	242.7 CY
F	20.8 CY	0 CY	32.3 CY
R	0 CY	0 CY	0 CY
G	11.9 CY	0 CY	13.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	143.0 CY	76.1 CY	253.6 CY
F	12.5 CY	0 CY	15.2 CY
R	0 CY	0 CY	0 CY
G	5.6 CY	0 CY	10.9 CY
M	0 CY	0 CY	0 CY

Filename: PAW2_Cross_Section_47.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

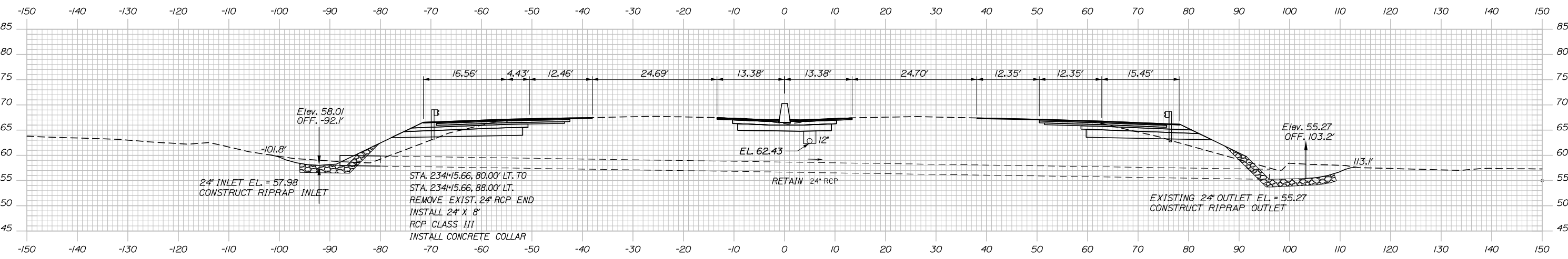
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2340+00 TO STA. h 2340+50

SHEET NUMBER:
 171 OF 376

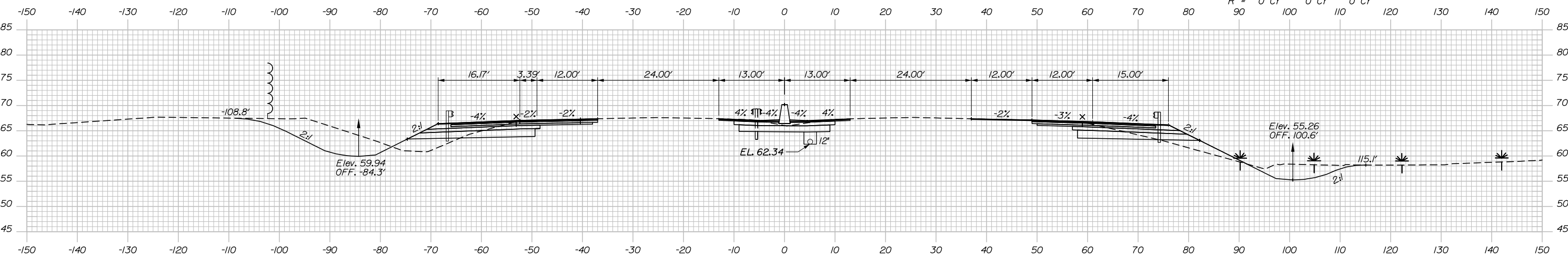
CONTRACT: 2021.08

Date: 9/8/2021



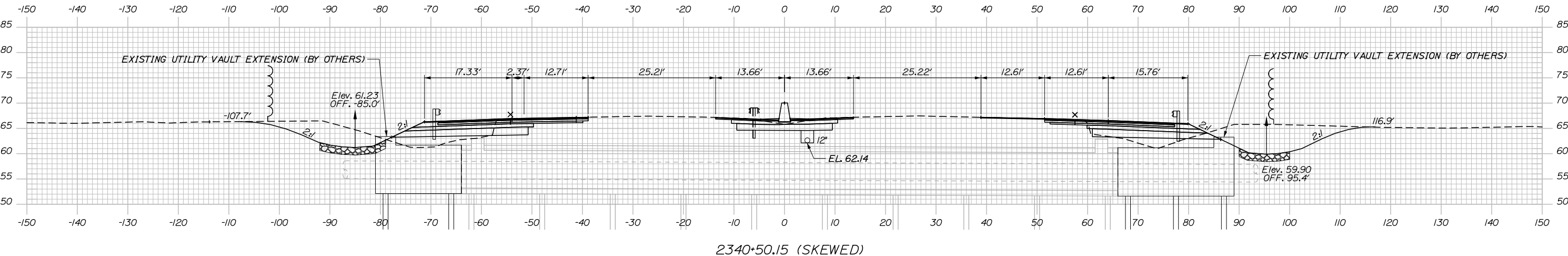
2341+5.66 (SKEWED)

SB	MEDIAN	NB	SB	MEDIAN	NB
C = 266.2 CY	71.3 CY	189.0 CY	G = 11.8 CY	0 CY	12.4 CY
F = 34.5 CY	0 CY	40.5 CY	M = 0 CY	0 CY	0 CY
R = 0 CY	0 CY	0 CY			

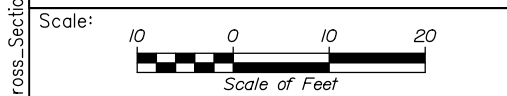


2341+00.00

NR
STATION 2340+80.00
APPROX. ELEV. -11.6
PROBE



2340+50.15 (SKEWED)



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HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

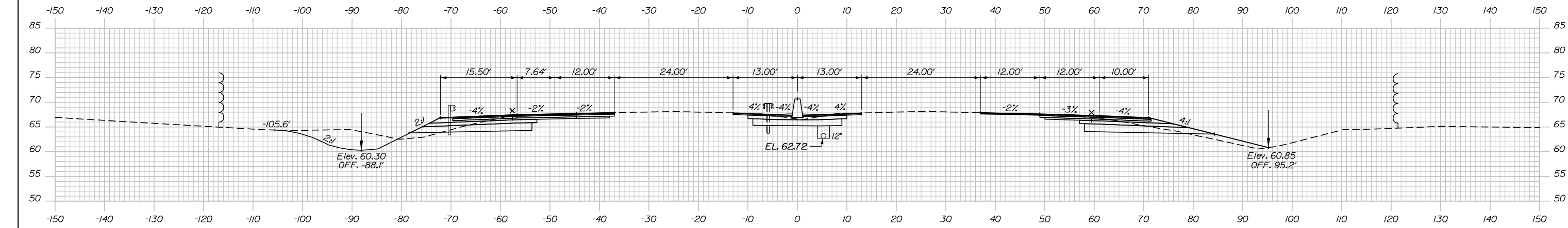
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

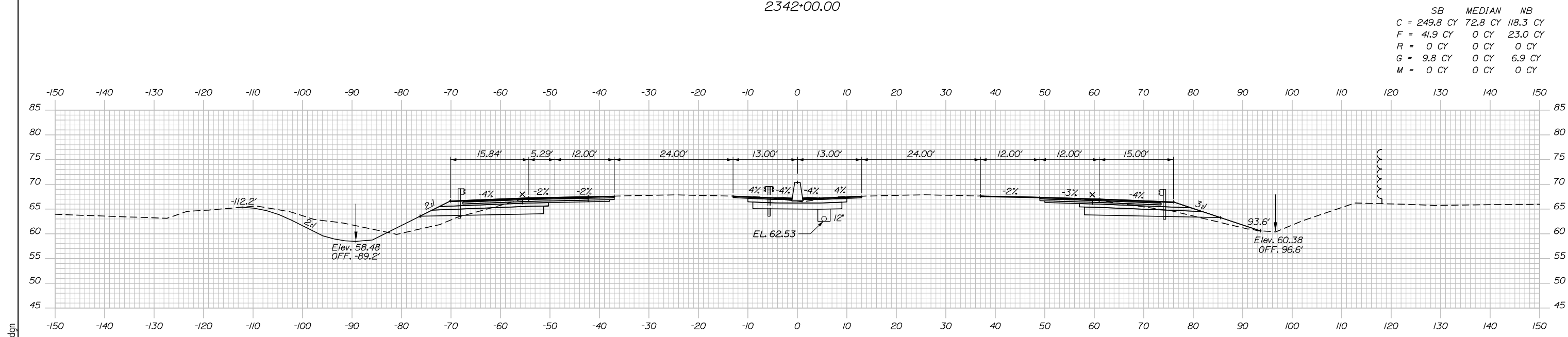
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. h 2340+50 TO STA. h 2341+15
SHEET NUMBER:
CONTRACT: 2021.08
172 OF 376

Filename: PAW2_Cross_Section_48.dgn

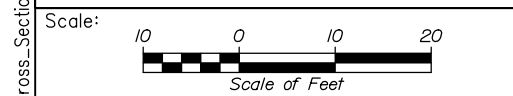
Date: 9/8/2021



2342+00.00



2341+50.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

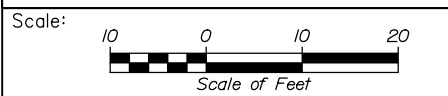
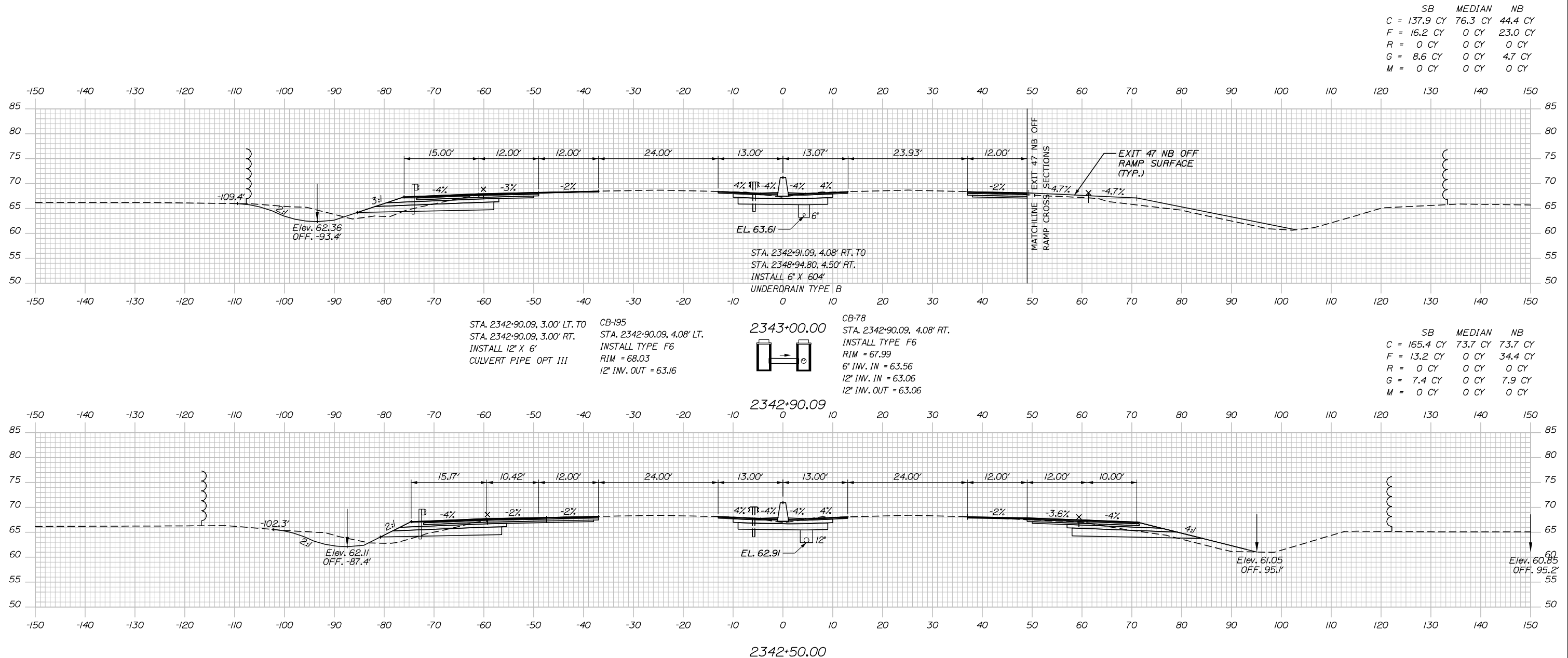
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2341+50 TO STA. h 2342+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 173 OF 376

Filename: PAW2_Cross_Section_49.dgn

Date: 9/8/2021

Filename: PAW2_Cross_Section_50.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

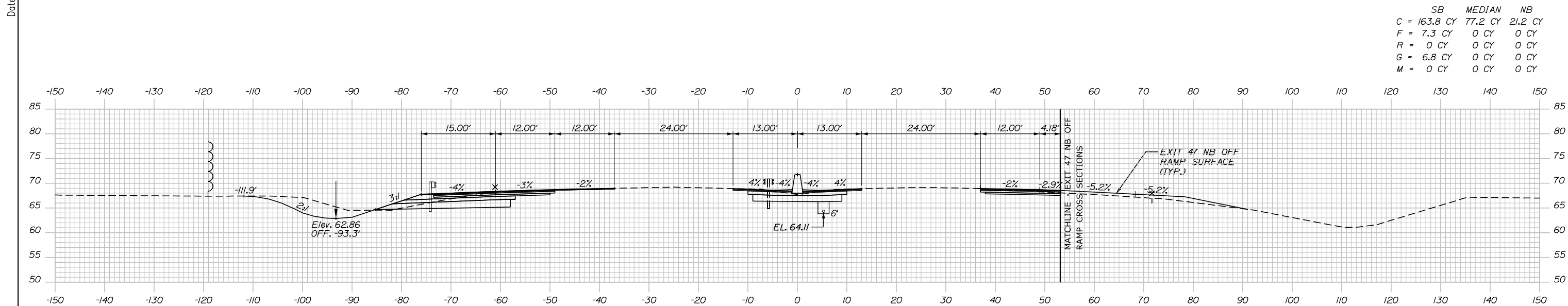
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

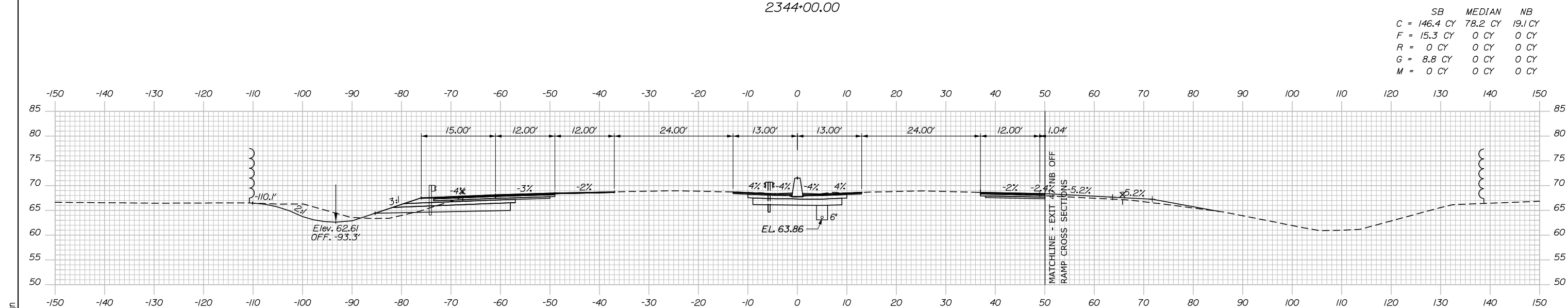
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2342+50 TO STA. h 2343+00

SHEET NUMBER:
 CONTRACT: 2021.08
 174 OF 376

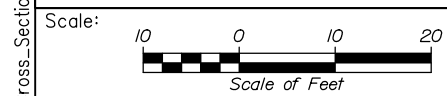
Date: 9/8/2021



2344+00.00



2343+50.00



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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South Portland, ME 04106
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. h 2343+50 TO STA. h 2344+00

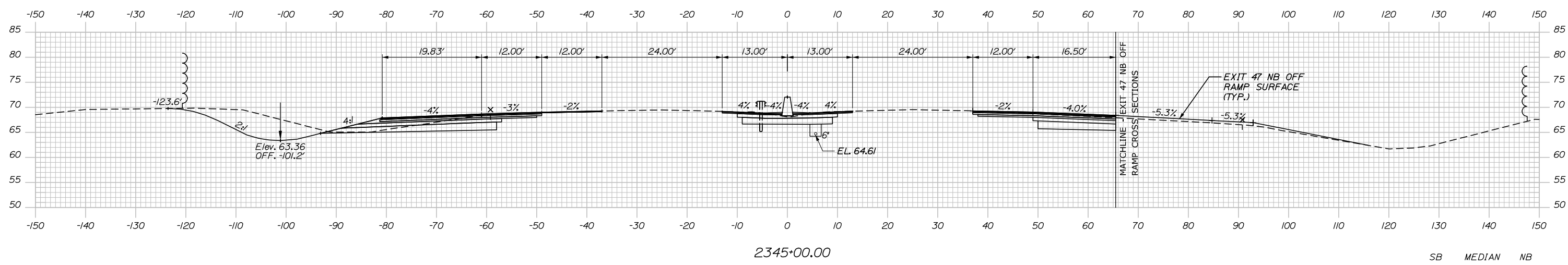
SHEET NUMBER:
CONTRACT: 2021.08
175 OF 376

Filename: PAW2_Cross_Section_51.dgn

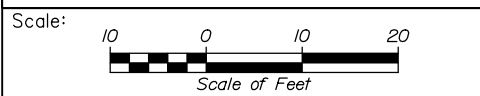
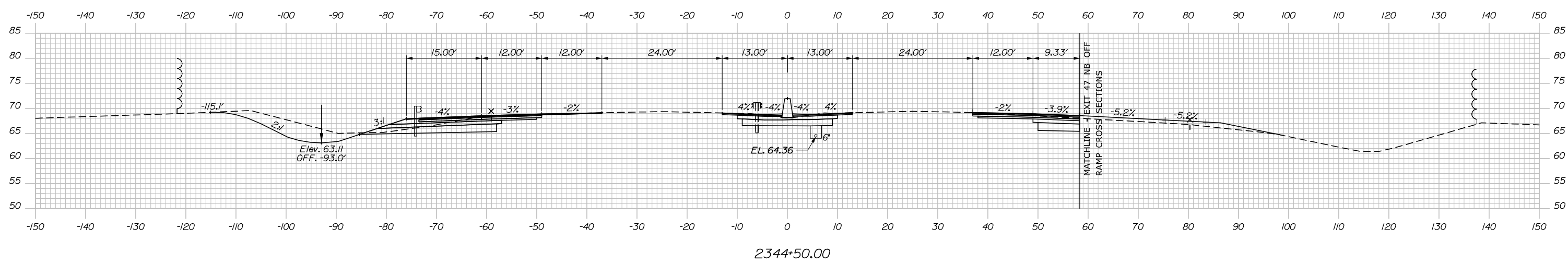
Date: 9/8/2021

Filename: PAW2_Cross_Section_52.dgn

	SB	MEDIAN	NB
C	227.4 CY	77.0 CY	81.3 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	4.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	188.6 CY	76.2 CY	42.6 CY
F	0.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

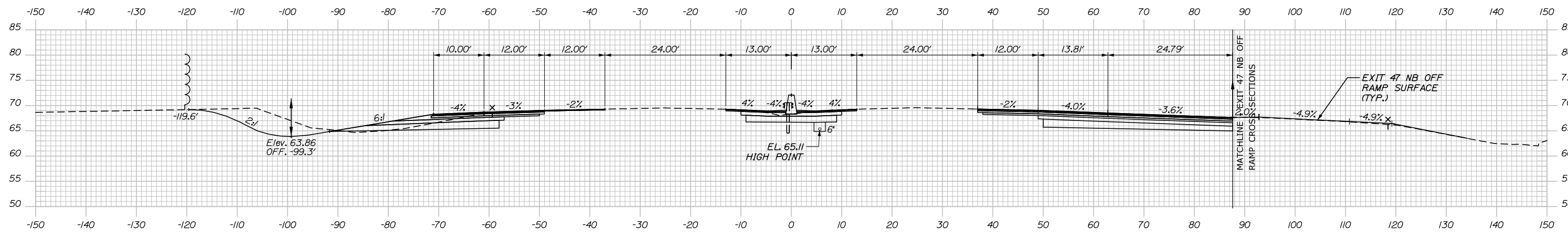
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2344+50 TO STA. h 2345+00

SHEET NUMBER:
 CONTRACT: 2021.08
 176 OF 376

Date: 9/8/2021

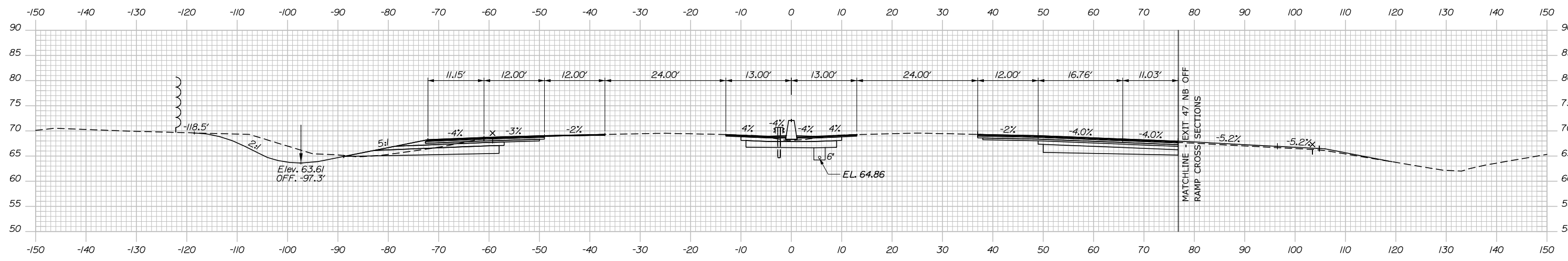
Filename: PAW2_Cross_Section_53.dgn

	SB	MEDIAN	NB
C	194.0 CY	73.2 CY	190.1 CY
F	1.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	9.9 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

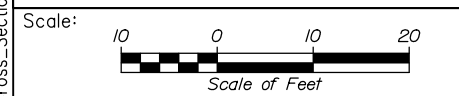


2346+00.00

	SB	MEDIAN	NB
C	220.7 CY	74.4 CY	130.6 CY
F	0.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	7.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2345+50.00



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

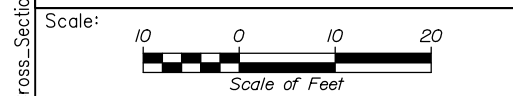
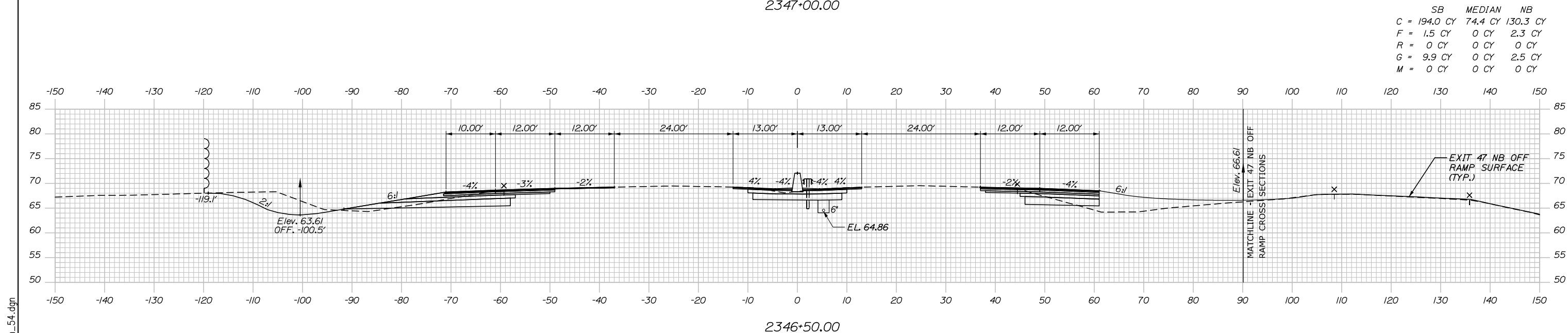
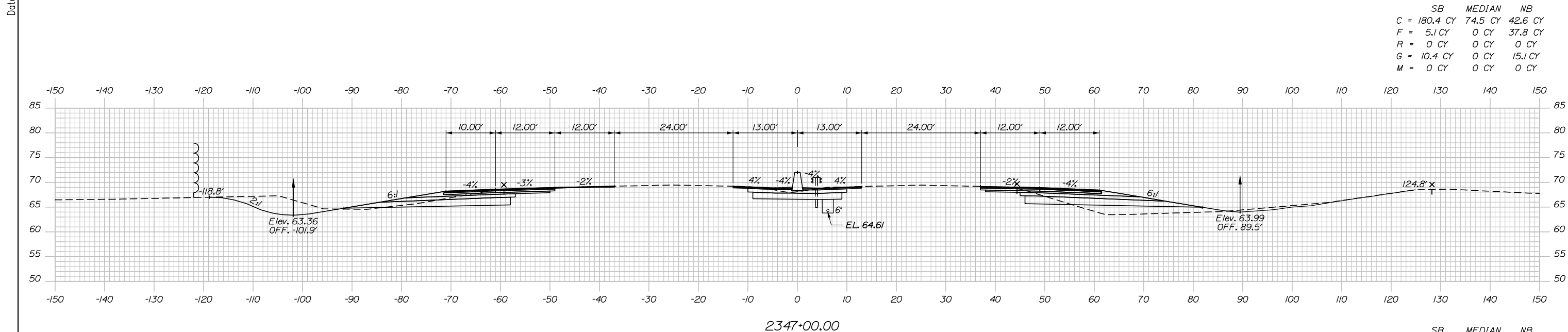
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2345+50 TO STA. h 2346+00

SHEET NUMBER:
 CONTRACT: 2021.08
 177 OF 376

Date: 9/8/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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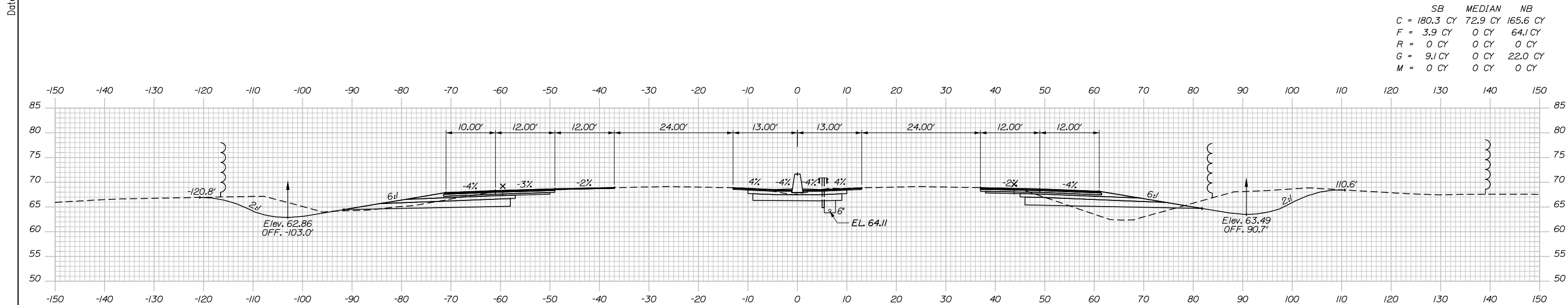
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. h 2346+50 TO STA. h 2347+00

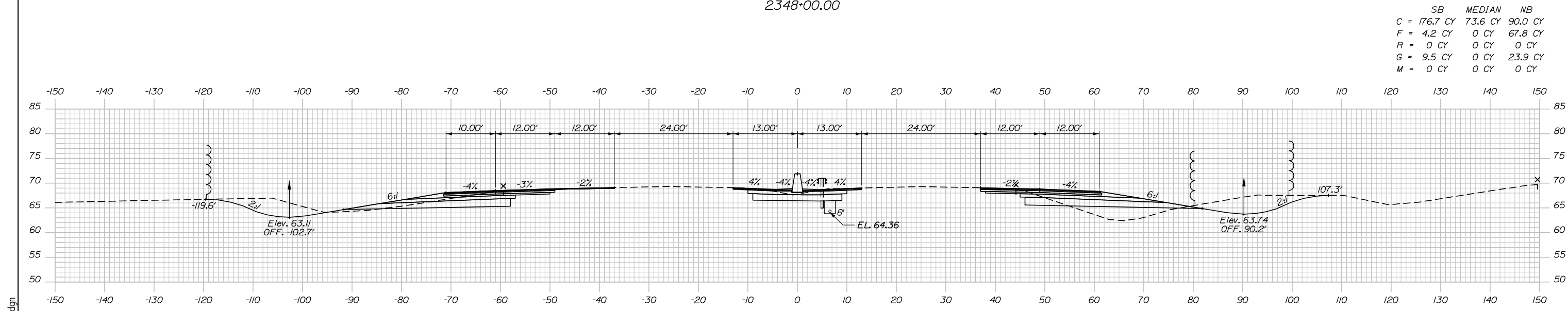
SHEET NUMBER:
CONTRACT: 2021.08

Date: 9/8/2021



	SB	MEDIAN	NB
C	180.3 CY	72.9 CY	165.6 CY
F	3.9 CY	0 CY	64.1 CY
R	0 CY	0 CY	0 CY
G	9.1 CY	0 CY	22.0 CY
M	0 CY	0 CY	0 CY

2348+00.00



	SB	MEDIAN	NB
C	176.7 CY	73.6 CY	90.0 CY
F	4.2 CY	0 CY	67.8 CY
R	0 CY	0 CY	0 CY
G	9.5 CY	0 CY	23.9 CY
M	0 CY	0 CY	0 CY

2347+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

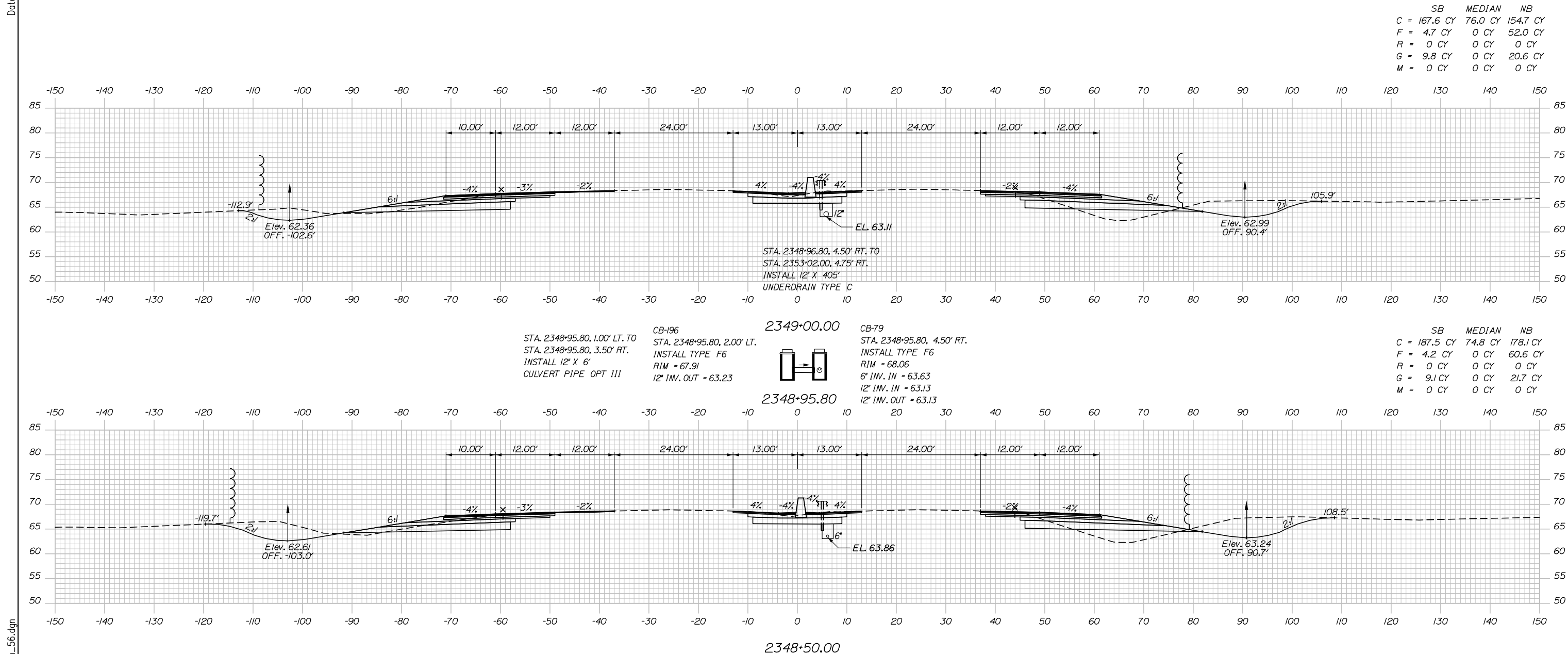
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2347+50 TO STA. h 2348+00

SHEET NUMBER:
 CONTRACT: 2021.08
 179 OF 376

Filename: PAW2_Cross_Section_55.dgn

Date: 9/8/2021



Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 South Portland, ME 04106
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

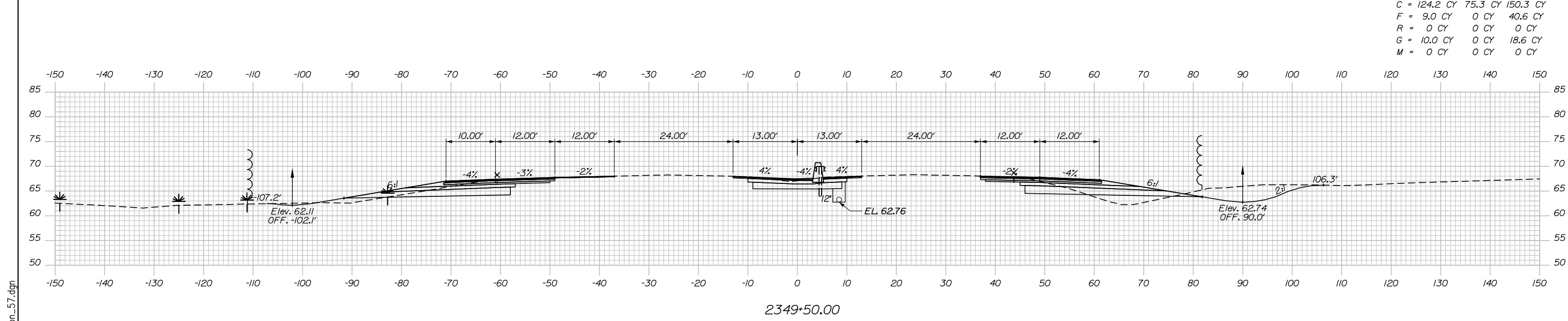
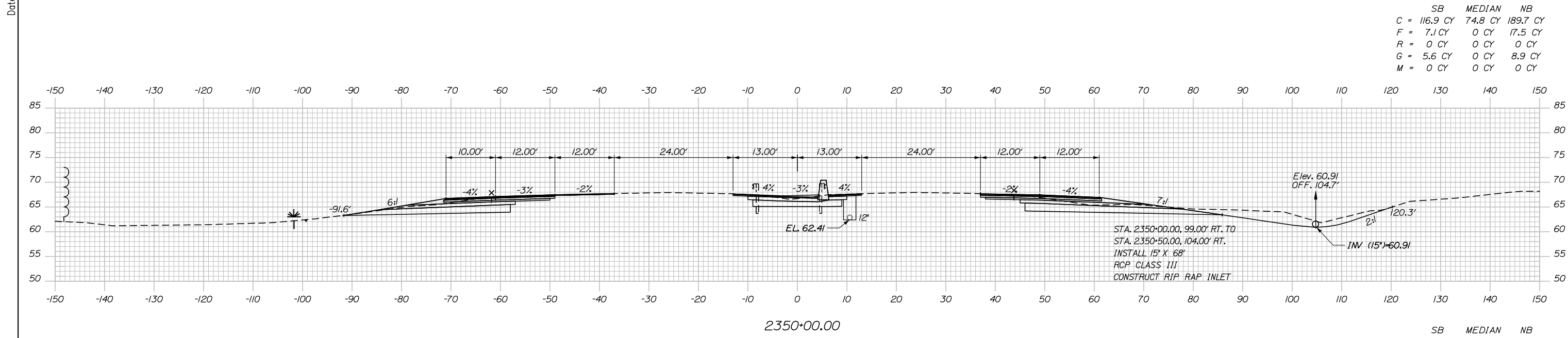
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2348+50 TO STA. h 2349+00

SHEET NUMBER:
 CONTRACT: 2021.08
 180 OF 376

Filename: PAW2_Cross_Section_56.dgn

Date: 9/8/2021



Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

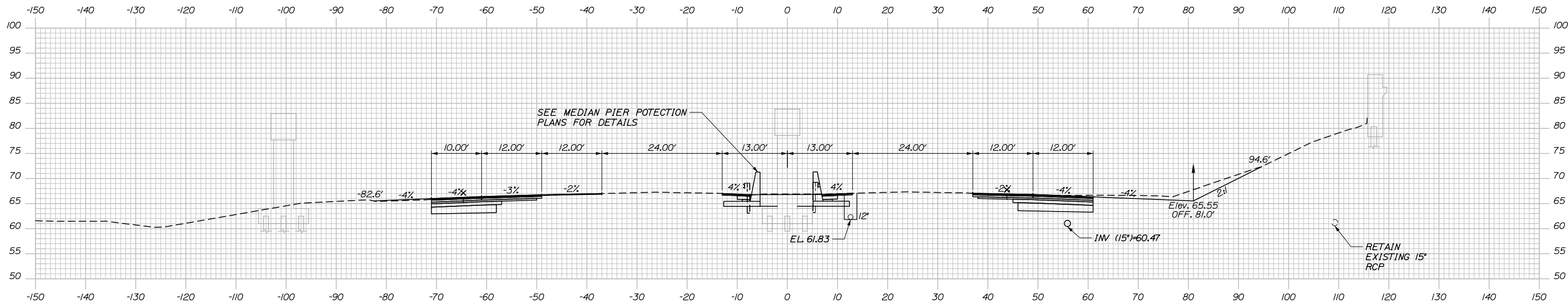
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. h 2349+50 TO STA. h 2350+00

SHEET NUMBER:
 CONTRACT: 2021.08
 181 OF 376

Filename: PAW2_Cross_Section_57.dgn

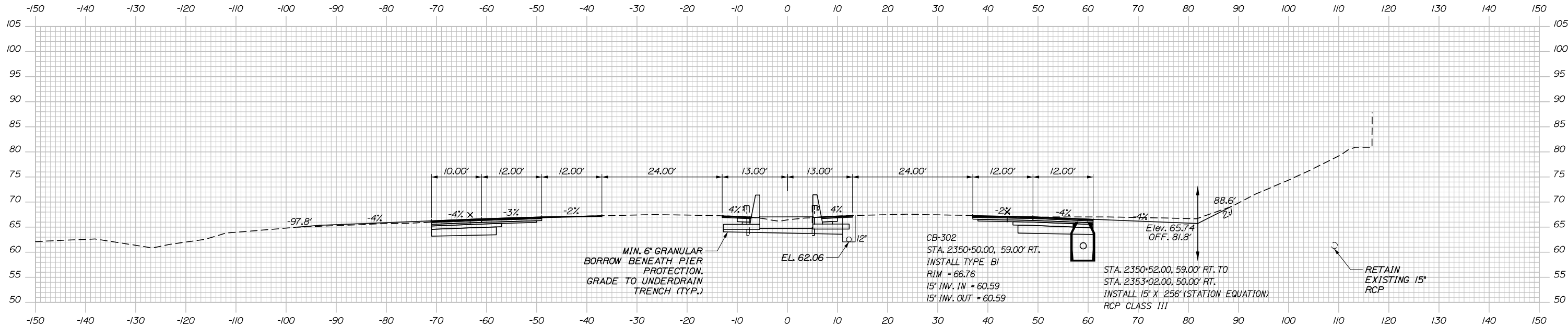
	SB	MEDIAN	NB
C	44.7 CY	40.7 CY	76.2 CY
F	3.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Date: 9/9/2021



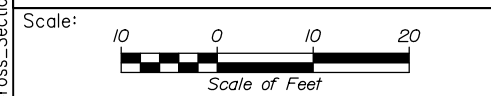
2350+75.00

	SB	MEDIAN	NB
C	109.0 CY	74.8 CY	185.2 CY
F	5.2 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2350+50.00

Filename: PAW2_Cross_Section_58.dgn



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

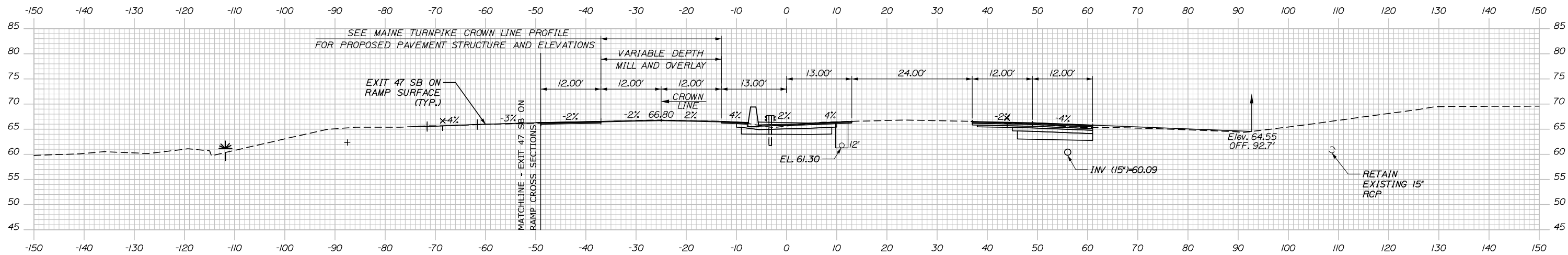
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. h 2350+50 TO STA. i 2350+75
SHEET NUMBER:

CONTRACT: 2021.08
182 OF 376

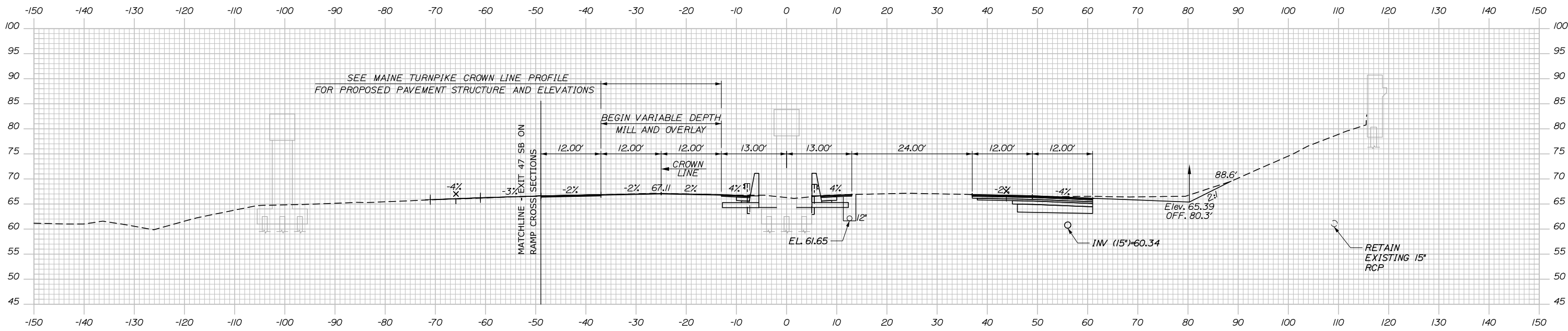
Date: 9/8/2021

	SB	MEDIAN	NB
C	5.4 CY	76.7 CY	117.8 CY
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R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



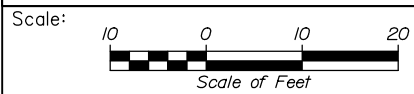
2351+50.00

	SB	MEDIAN	NB
C	23.7 CY	42.3 CY	76.0 CY
F	0.9 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2351+00.00

Filename: PAW2_Cross_Section_59.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2351+00 TO STA. i 2351+50

SHEET NUMBER:

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

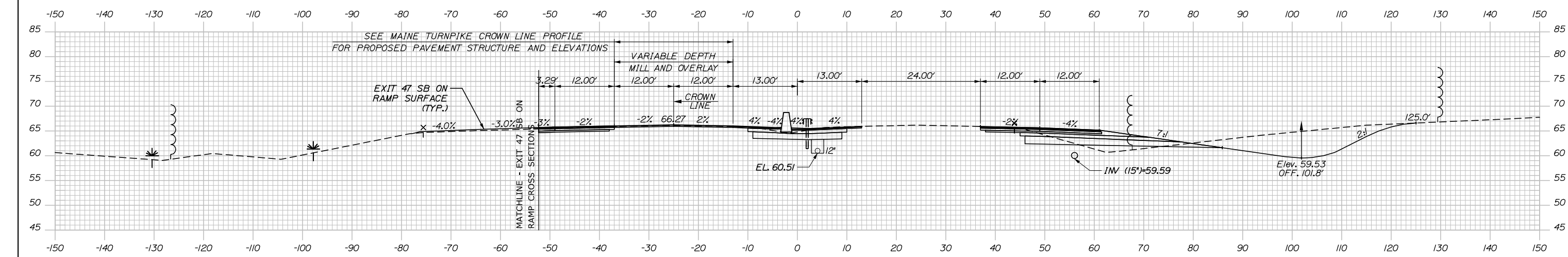
	By	Date	By	Date
Designed	JS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

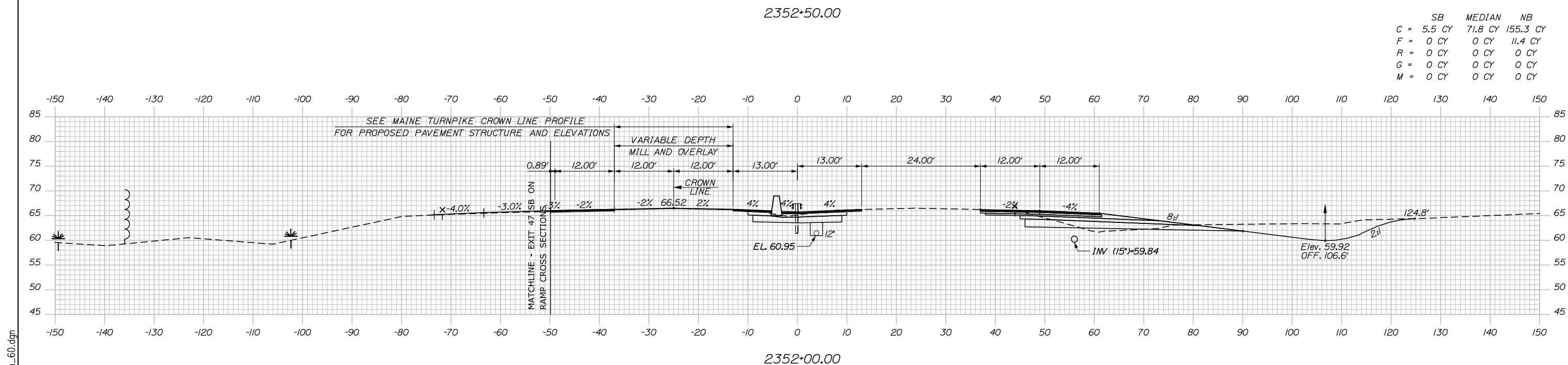
CONTRACT: 2021.08

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Date: 9/8/2021



	SB	MEDIAN	NB
C	13.7 CY	71.4 CY	256.2 CY
F	0 CY	0 CY	15.6 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	5.5 CY	71.8 CY	155.3 CY
F	0 CY	0 CY	11.4 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2352+00 TO STA. i 2352+50

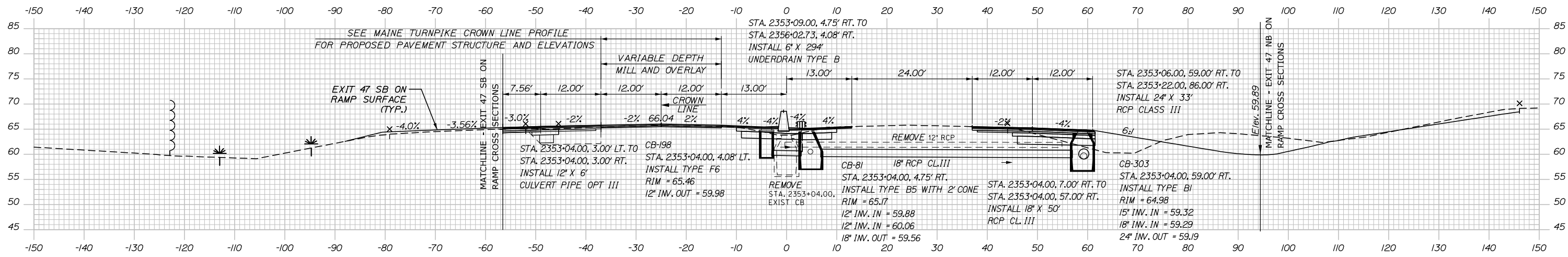
SHEET NUMBER:
 184 OF 376

CONTRACT: 2021.08

Filename: PAW2_Cross_Section_60.dgn

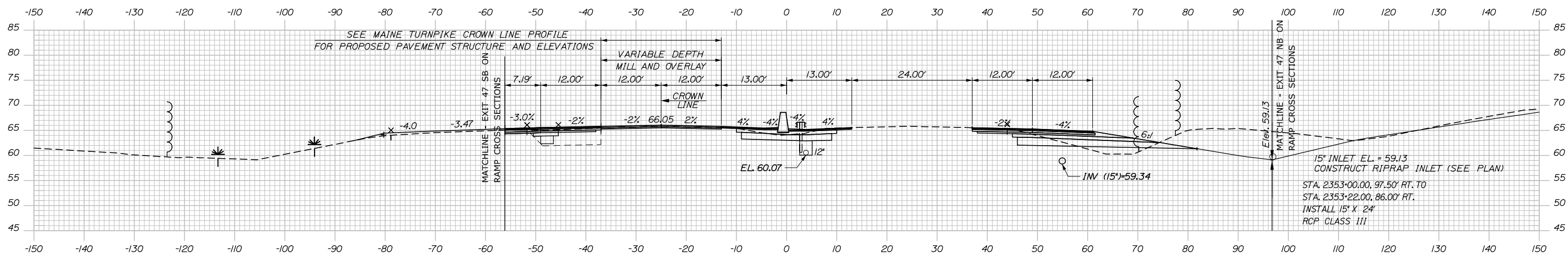
Date: 9/8/2021

CB-308 STA. 2353+24.00, 86.00' RT. INSTALL 60" TYPE BI RIM = 62.58 15" INV. IN = 59.08 24" INV. IN = 59.08 24" INV. OUT (EXIST) = 59.08				SB	MEDIAN	NB
C	= 2.8 CY	4.5 CY	14.7 CY			
F	= 0 CY	0 CY	1.1 CY			
R	= 0 CY	0 CY	0 CY			
G	= 0 CY	0 CY	0.9 CY			
M	= 0 CY	0 CY	0 CY			

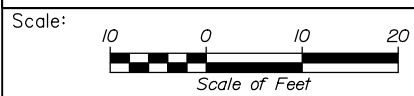


2353+04.00

SB	MEDIAN	NB
C	= 28.3 CY	64.4 CY 306.0 CY
F	= 0 CY	0 CY 23.6 CY
R	= 0 CY	0 CY 0 CY
G	= 0 CY	0 CY 8.7 CY
M	= 0 CY	0 CY 0 CY



2353+00.00



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

By	Date	By	Date
Designed	JS 09\21	Checked	PJS 09\21
Drawn	GW 09\21	In Charge of	TRC 09\21

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MAINE TURNPIKE

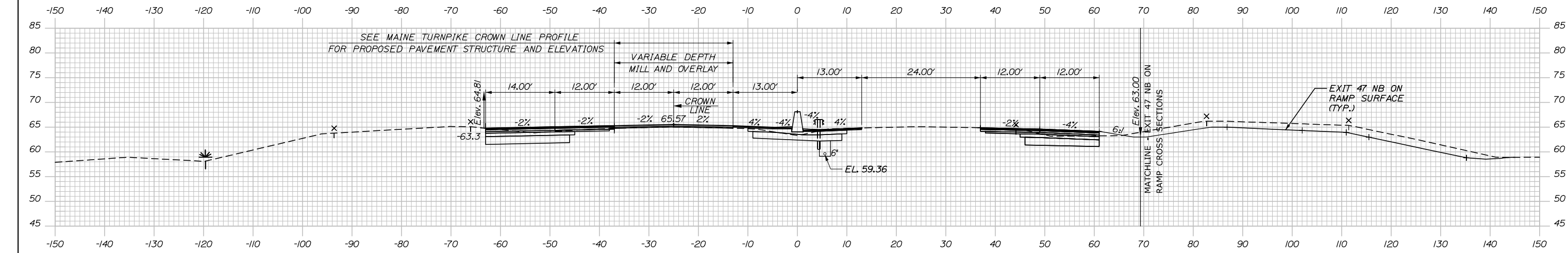
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2353+00 TO STA. i 2353+04
 SHEET NUMBER:
 CONTRACT: 2021.08
 185 OF 376

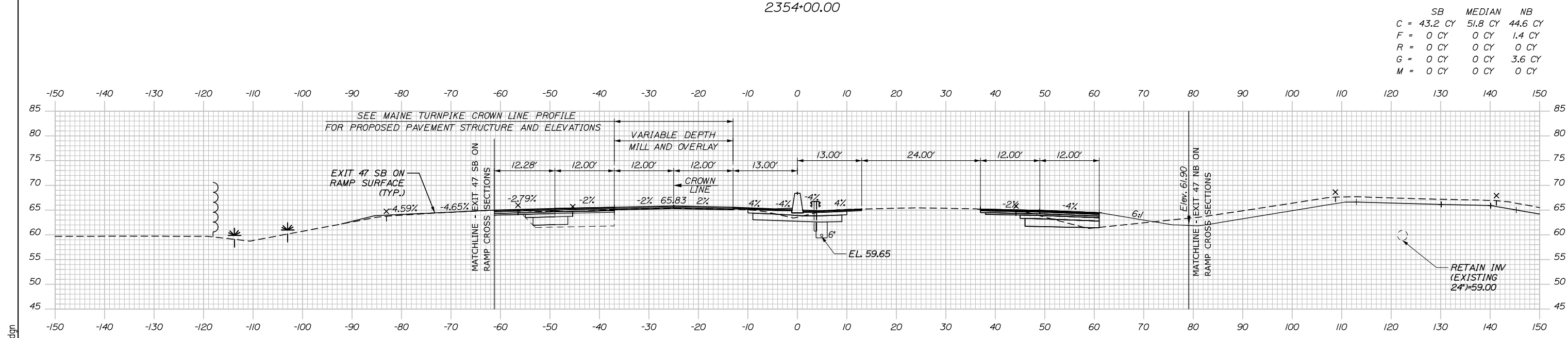
Filename: PAW2_Cross_Section_61.dgn

Date: 9/8/2021



	SB	MEDIAN	NB
C	72.1 CY	59.2 CY	61.9 CY
F	0 CY	0 CY	0.2 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	1.9 CY
M	0 CY	0 CY	0 CY

2354+00.00



	SB	MEDIAN	NB
C	43.2 CY	51.8 CY	44.6 CY
F	0 CY	0 CY	1.4 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	3.6 CY
M	0 CY	0 CY	0 CY

2353+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

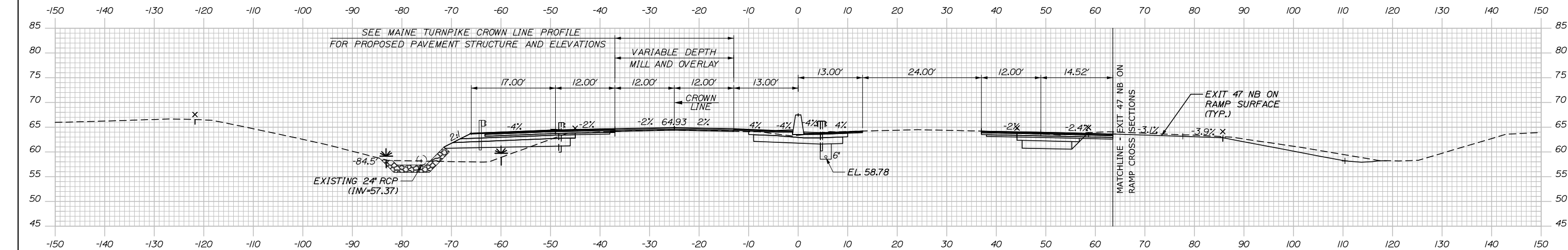
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2353+50 TO STA. i 2354+00
 SHEET NUMBER:
 CONTRACT: 2021.08

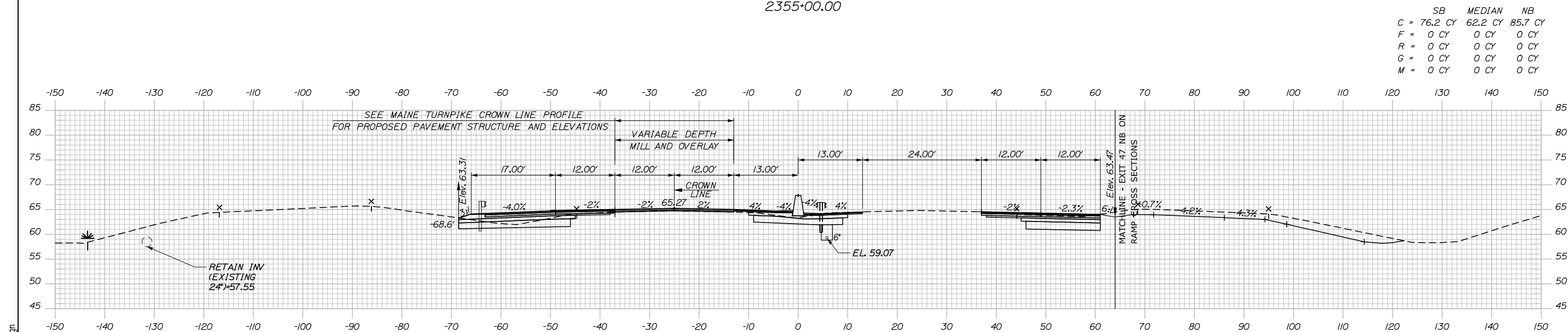
Filename: PAW2_Cross_Section_62.dgn

Date: 9/8/2021



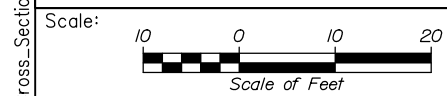
	SB	MEDIAN	NB
C	47.2 CY	66.8 CY	92.5 CY
F	33.9 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.1 CY	0 CY	0 CY
M	17.6 CY	0 CY	0 CY

2355+00.00



	SB	MEDIAN	NB
C	76.2 CY	62.2 CY	85.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2354+50.00



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2354+50 TO STA. i 2355+00

SHEET NUMBER:
 187 OF 376

CONTRACT: 2021.08

Filename: PAW2_Cross_Section_63.dgn

Date: 9/8/2021

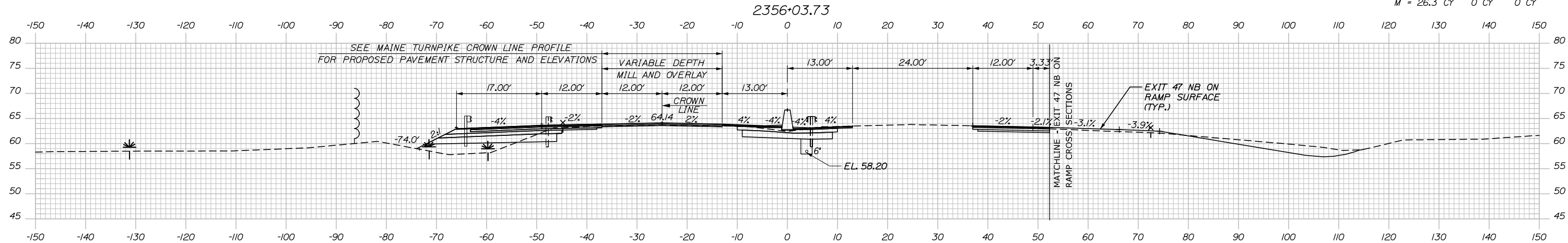
Filename: PAW2_Cross_Section_64.dgn

STA. 2356*04.73, 4.08' RT. TO
 STA. 2357*89.76, 4.08' RT.
 INSTALL 12' X 185'
 UNDERDRAIN TYPE C

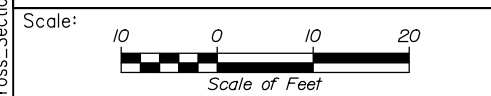
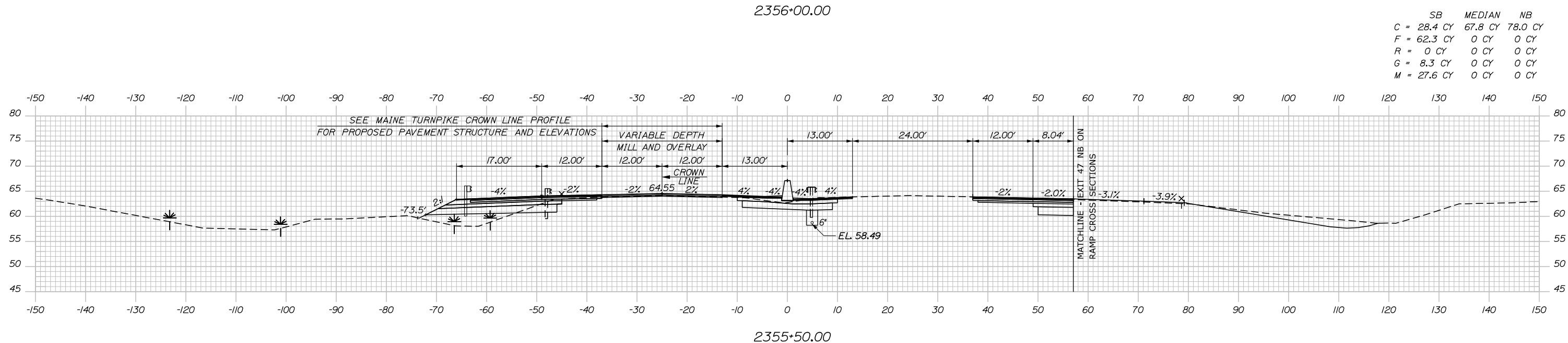
CB-199
 STA. 2356*03.73, 3.00' LT. TO
 STA. 2356*03.73, 3.00' RT.
 INSTALL 12' X 6'
 CULVERT PIPE OPT III

CB-82
 STA. 2356*03.73, 4.08' RT.
 INSTALL TYPE F6
 RIM = 63.13
 12" INV. IN = 58.19
 6" INV. IN = 59.19
 12" INV. OUT = 58.19

	SB	MEDIAN	NB
C	34.0 CY	68.0 CY	45.6 CY
F	57.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	8.5 CY	0 CY	0 CY
M	26.3 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	28.4 CY	67.8 CY	78.0 CY
F	62.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	8.3 CY	0 CY	0 CY
M	27.6 CY	0 CY	0 CY



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

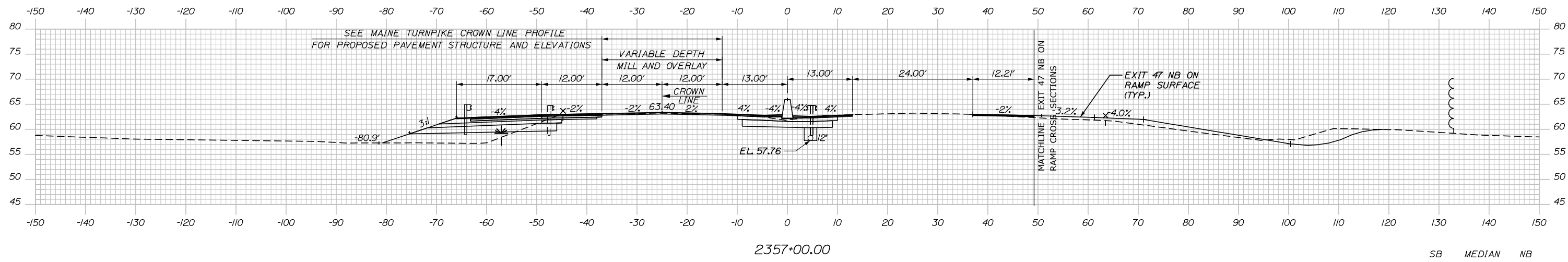
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2355+50 TO STA. i 2356+00

SHEET NUMBER:
 CONTRACT: 2021.08
 188 OF 376

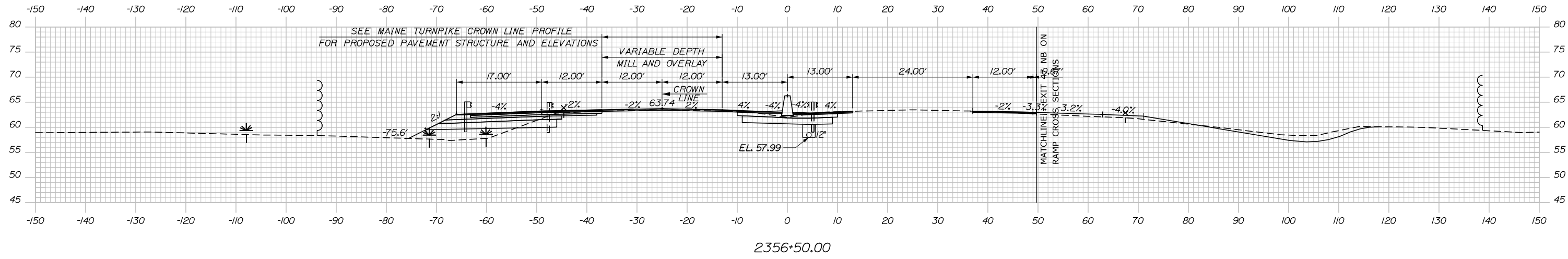
Date: 9/8/2021

Filename: PAW2_Cross_Section_65.dgn

	SB	MEDIAN	NB
C	40.2 CY	70.6 CY	2.1 CY
F	70.0 CY	0 CY	0.4 CY
R	0 CY	0 CY	0 CY
G	6.7 CY	0 CY	0 CY
M	36.9 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	37.6 CY	69.1 CY	13.7 CY
F	60.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	6.8 CY	0 CY	0 CY
M	32.0 CY	0 CY	0 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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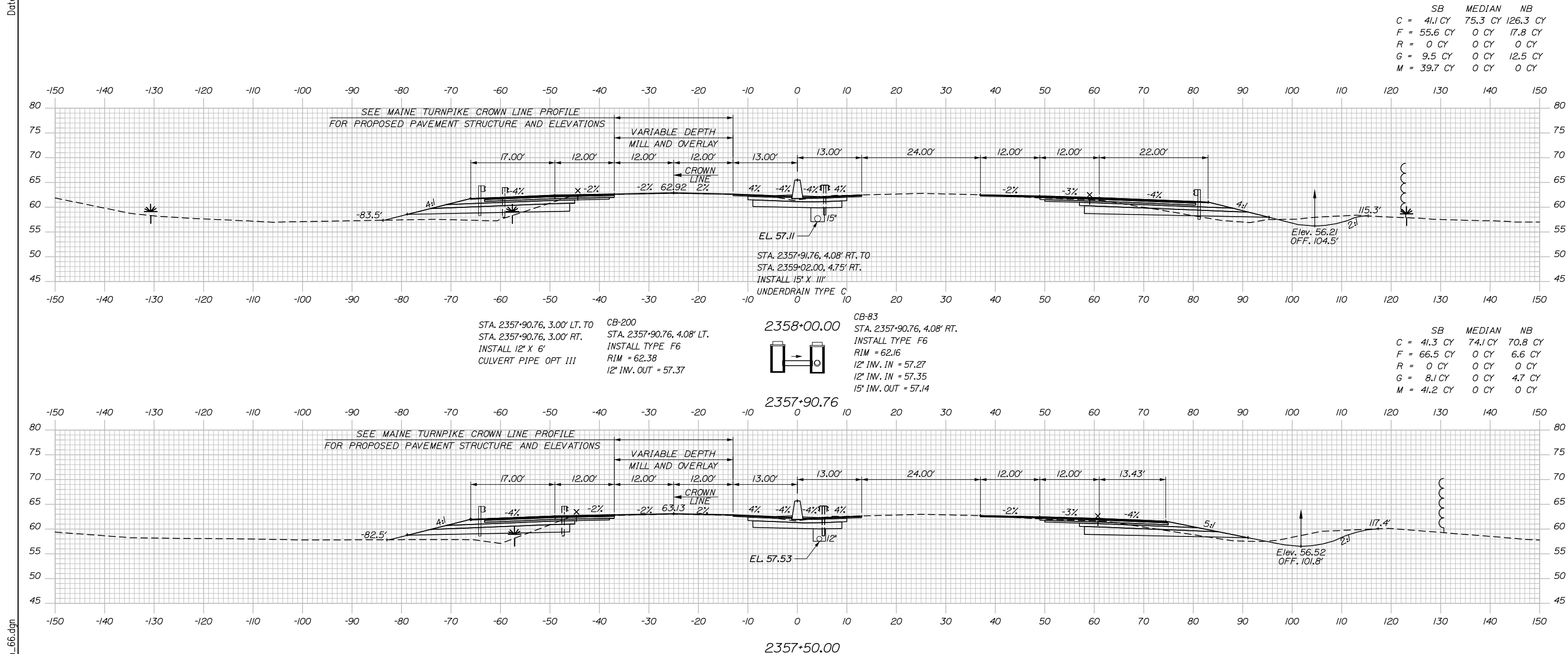
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2356+50 TO STA. i 2357+00

SHEET NUMBER:
 CONTRACT: 2021.08
 189 OF 376

Date: 9/8/2021



Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

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	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

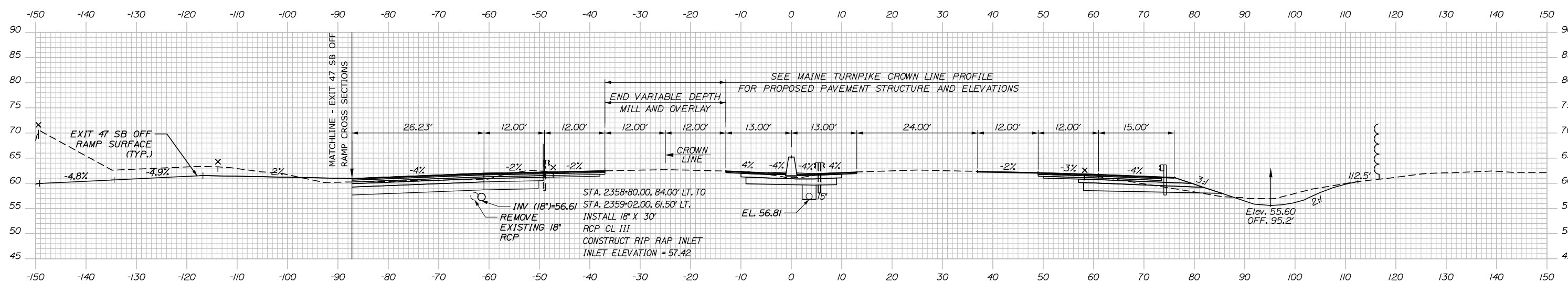
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2357+50 TO STA. i 2358+00

SHEET NUMBER:
 CONTRACT: 2021.08 190 OF 376

Filename: PAW2_Cross_Section_66.dgn

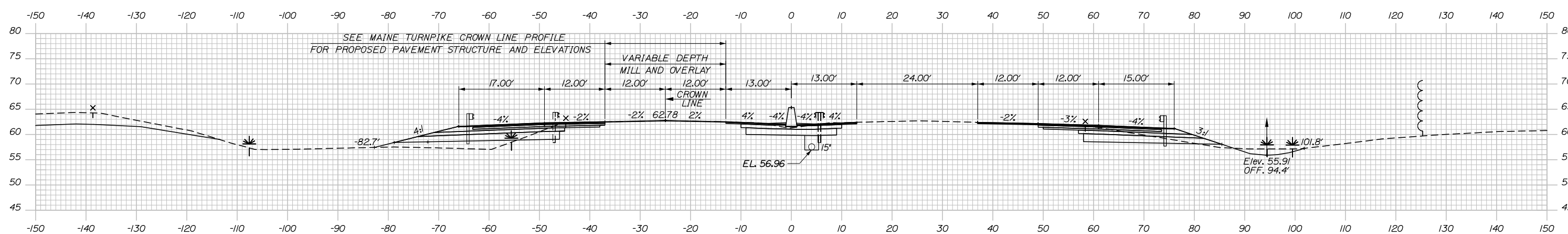
Date: 9/8/2021

	SB	MEDIAN	NB
C	121.4 CY	73.0 CY	116.7 CY
F	28.8 CY	0 CY	4.6 CY
R	0 CY	0 CY	0 CY
G	4.2 CY	0 CY	5.7 CY
M	22.5 CY	0 CY	0 CY

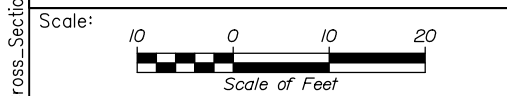


2359+00.00

	SB	MEDIAN	NB
C	43.4 CY	75.0 CY	107.9 CY
F	56.7 CY	0 CY	14.2 CY
R	0 CY	0 CY	0 CY
G	8.7 CY	0 CY	10.7 CY
M	42.1 CY	0 CY	0 CY



2358+50.00



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	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

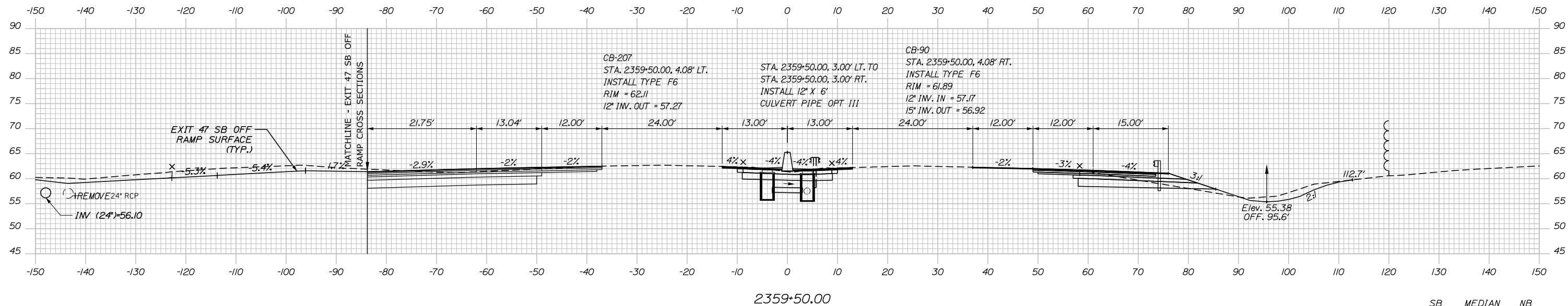
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2358+50 TO STA. i 2359+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 191 OF 376

Filename: PAW2_Cross_Section_67.dgn

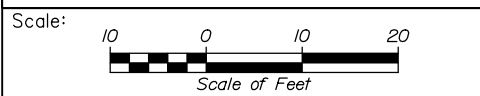
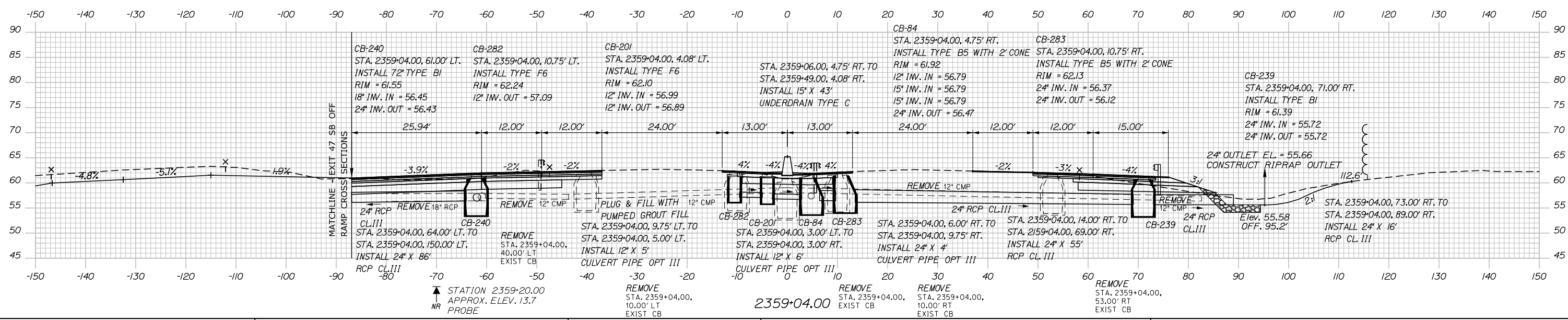
Date: 9/8/2021

Filename: PAW2_Cross_Section_68.dgn

	SB	MEDIAN	NB
C	= 207.4 CY	67.6 CY	112.6 CY
F	= 0 CY	0 CY	5.3 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	5.6 CY
M	= 0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	= 17.6 CY	5.6 CY	10.4 CY
F	= 0 CY	0 CY	0.3 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0.4 CY
M	= 0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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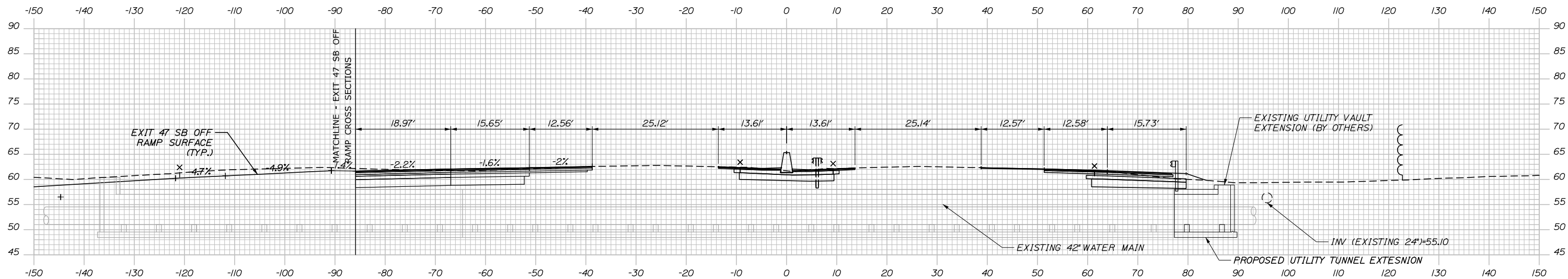
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

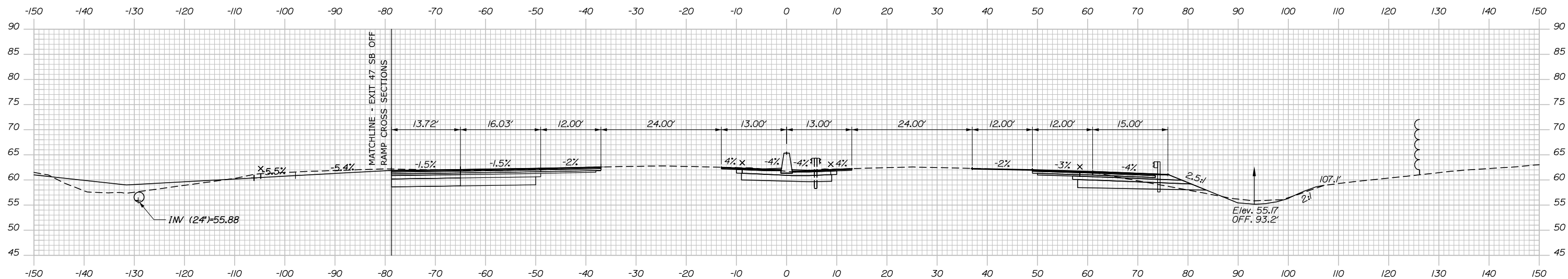
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2359+04 TO STA. i 2359+50
 SHEET NUMBER:
 CONTRACT: 2021.08 192 OF 376

Date: 9/8/2021



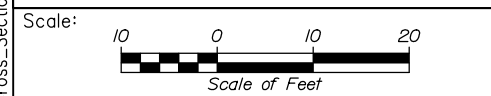
2360+02.55 (SKEWED)

	SB	MEDIAN	NB
C	201.5 CY	81.2 CY	115.9 CY
F	0 CY	0 CY	9.5 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	6.8 CY
M	0 CY	0 CY	0 CY



2360+00.00

Filename: PAW2_Cross_Section_69.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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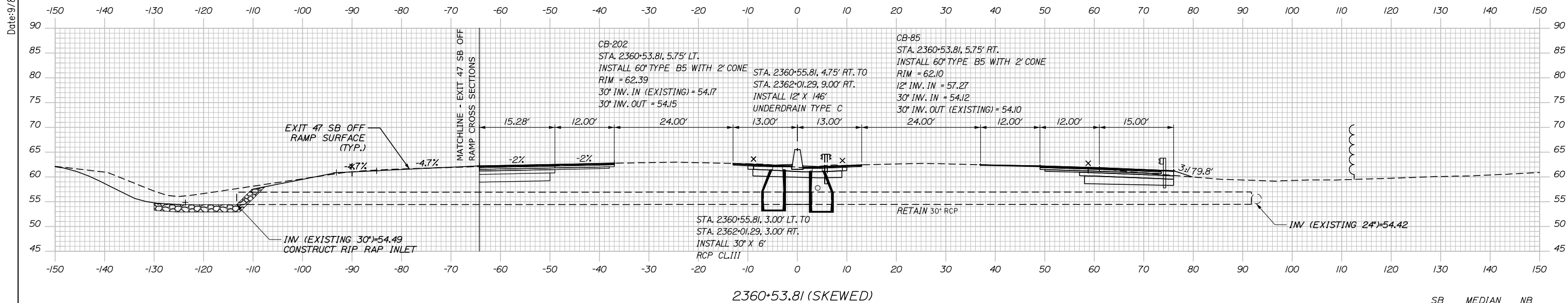
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

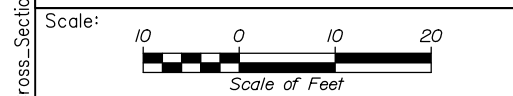
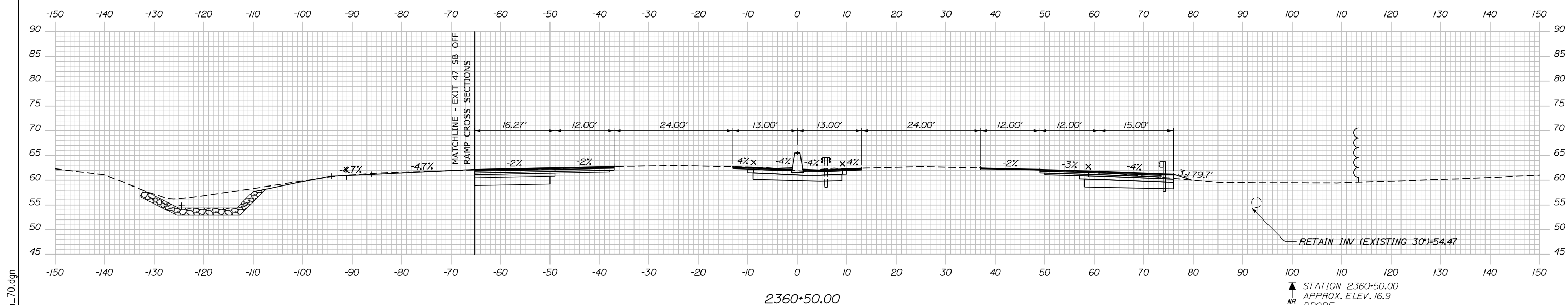
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. i 2360+00 TO STA. i 2360+03

SHEET NUMBER:
CONTRACT: 2021.08

Date: 9/8/2021



	SB	MEDIAN	NB
C	151.7 CY	84.1 CY	110.7 CY
F	0 CY	0 CY	7.1 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	3.4 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

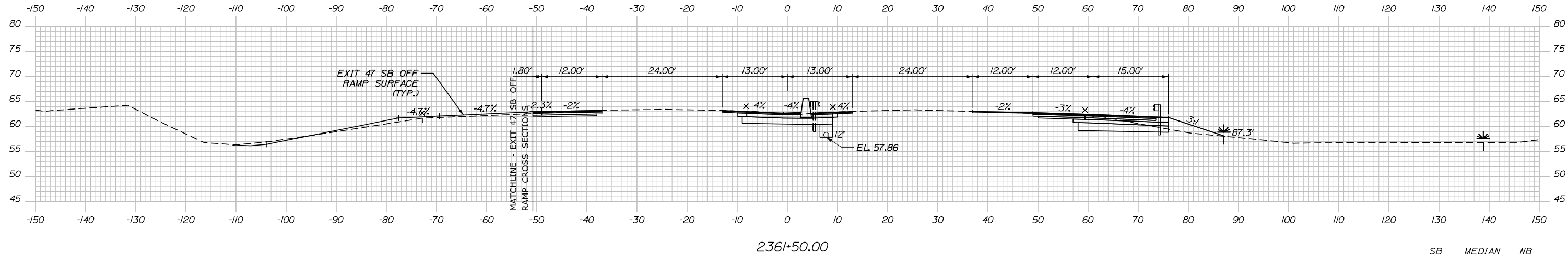
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2360+50 TO STA. i 2360+54
 SHEET NUMBER:
 CONTRACT: 2021.08 194 OF 376

Filename: PAW2_Cross_Section_70.dgn

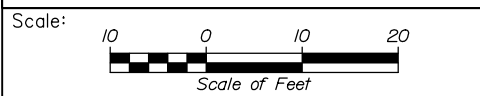
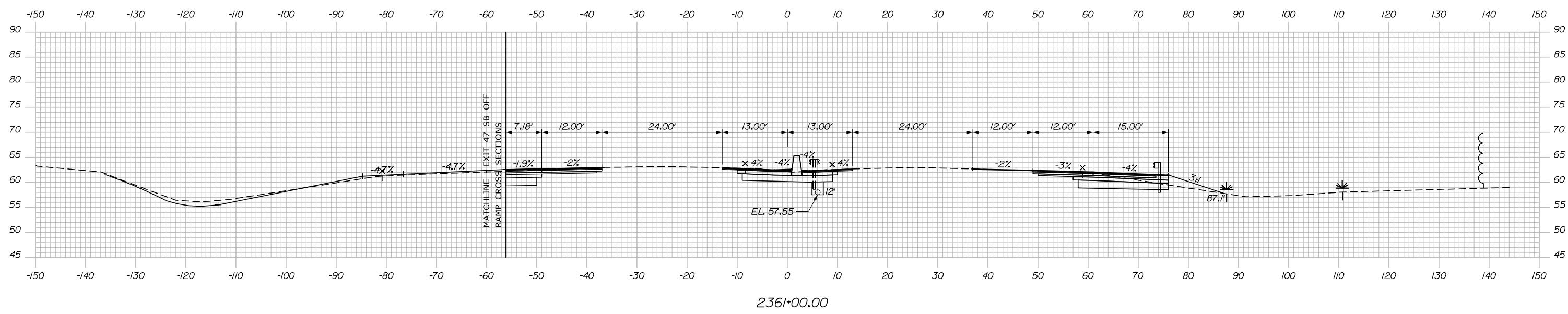
Date: 9/8/2021

Filename: PAW2_Cross_Section_71.dgn

	SB	MEDIAN	NB
C	38.5 CY	81.9 CY	87.6 CY
F	0 CY	0 CY	23.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	83.6 CY	84.0 CY	97.7 CY
F	0 CY	0 CY	11.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	JS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
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 FAX (207) 228-0909

MAINE TURNPIKE

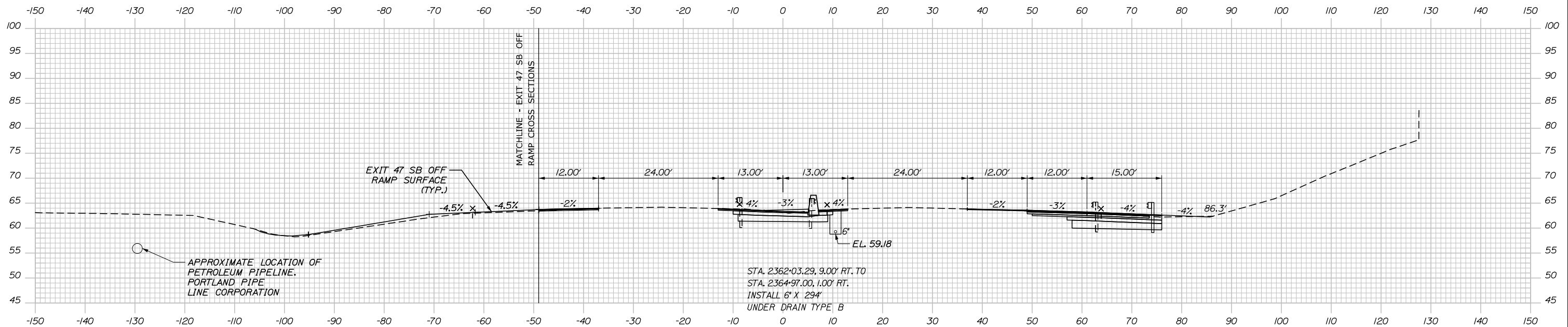
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. i 2361+00 TO STA. i 2361+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 195 OF 376

Date: 9/8/2021

	SB	MEDIAN	NB
C	4.4 CY	79.0 CY	98.8 CY
F	0 CY	0 CY	24.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



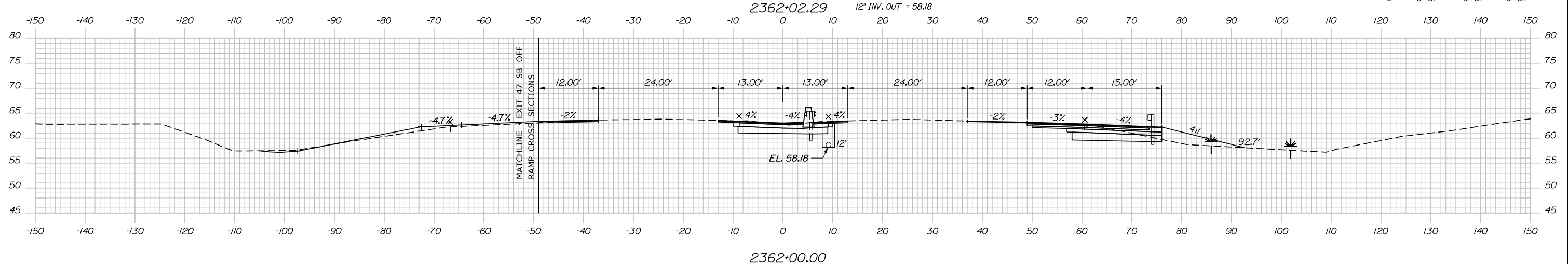
STA. 2362+02.29, 1.00' RT. TO STA. 2362+02.29, 8.00' RT.
INSTALL 12" X 7' CULVERT PIPE OPT III

CB-203
STA. 2362+02.29, 0.00' LT.
INSTALL TYPE F6
RIM = 63.06
12' INV. OUT = 58.53

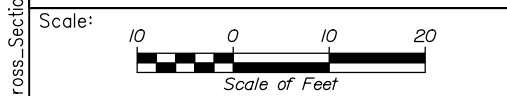
2362+50.00

CB-86
STA. 2362+02.29, 9.00' RT.
INSTALL TYPE F6
RIM = 63.18
12' INV. IN = 58.43
6' INV. IN = 58.93
12' INV. OUT = 58.18

	SB	MEDIAN	NB
C	12.6 CY	80.3 CY	86.0 CY
F	0 CY	0 CY	36.5 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2362+00.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

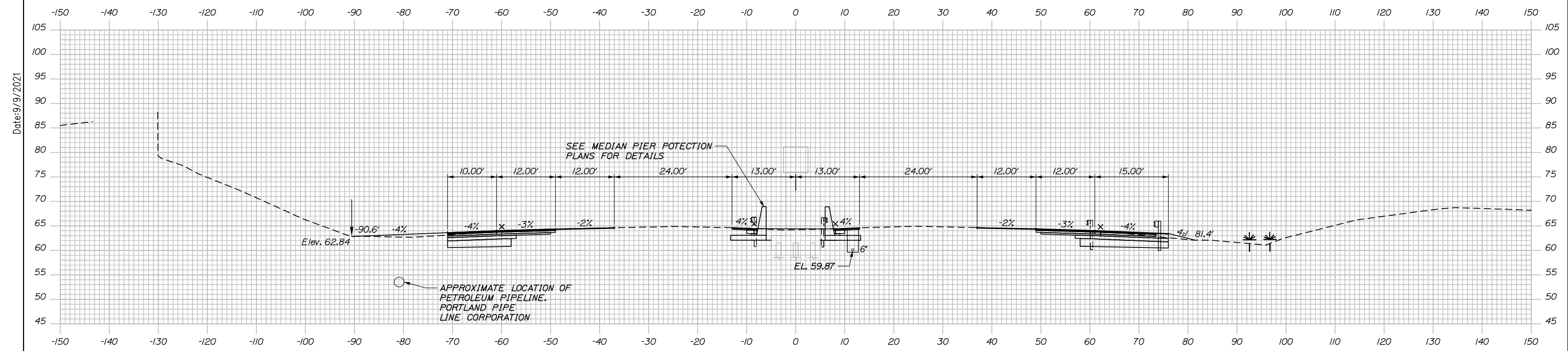
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. i 2362+00 TO STA. i 2362+50
SHEET NUMBER:
CONTRACT: 2021.08
196 OF 376

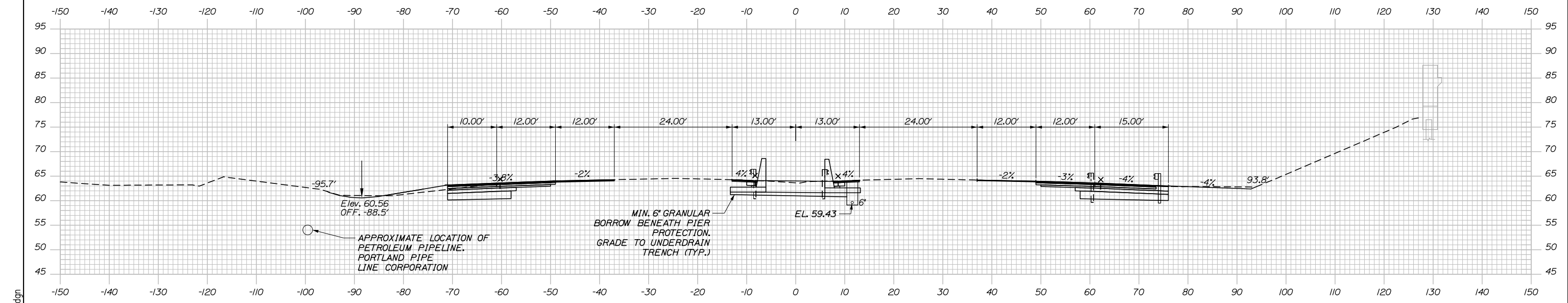
Filename: PAW2_Cross_Section_72.dgn

	SB	MEDIAN	NB
C	83.4 CY	82.1 CY	115.4 CY
F	7.2 CY	0 CY	2.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2363+50.00

	SB	MEDIAN	NB
C	42.5 CY	80.2 CY	116.6 CY
F	0 CY	0 CY	1.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2363+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2363+00 TO STA. j 2363+50

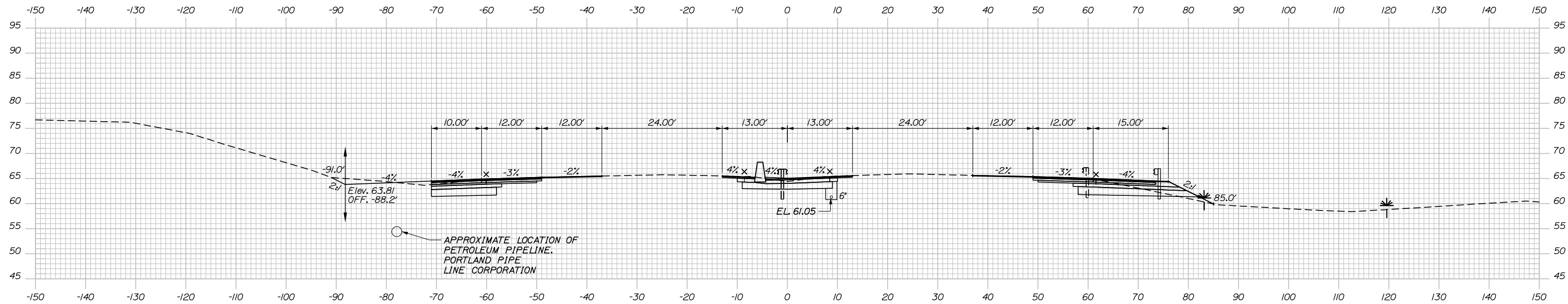
SHEET NUMBER:
 CONTRACT:2021.08
 197 OF 376

Filename: PAW2_Cross_Section_73.dgn

Date:9/9/2021

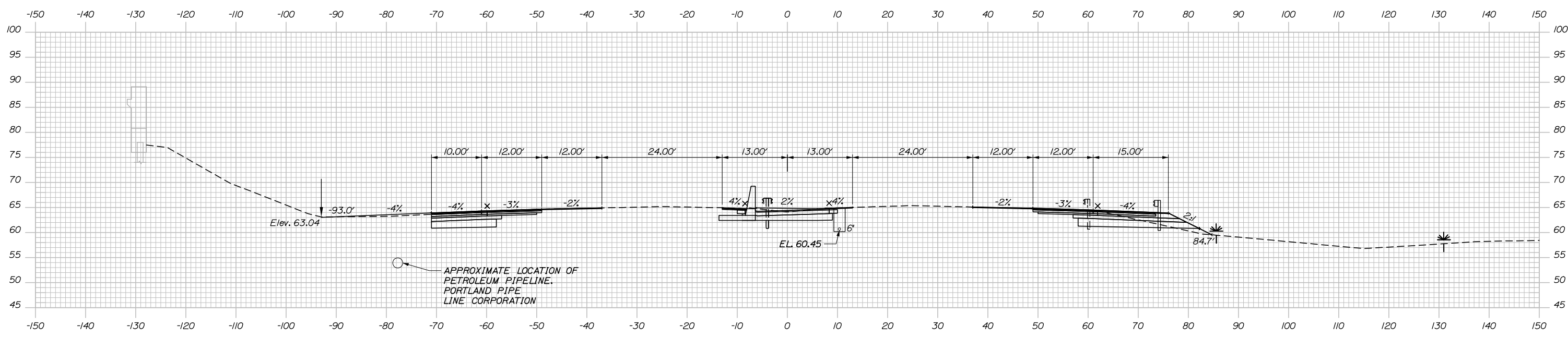
Date: 9/8/2021

	SB	MEDIAN	NB
C	99.0 CY	77.2 CY	85.1 CY
F	7.1 CY	0 CY	5.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	5.3 CY
M	0 CY	0 CY	0 CY



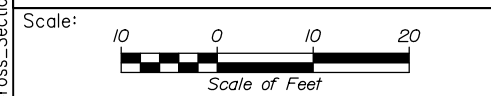
2364+50.00

	SB	MEDIAN	NB
C	90.4 CY	80.4 CY	96.8 CY
F	11.2 CY	0 CY	5.7 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.8 CY
M	0 CY	0 CY	0 CY



2364+00.00

Filename: PAW2_Cross_Section_74.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

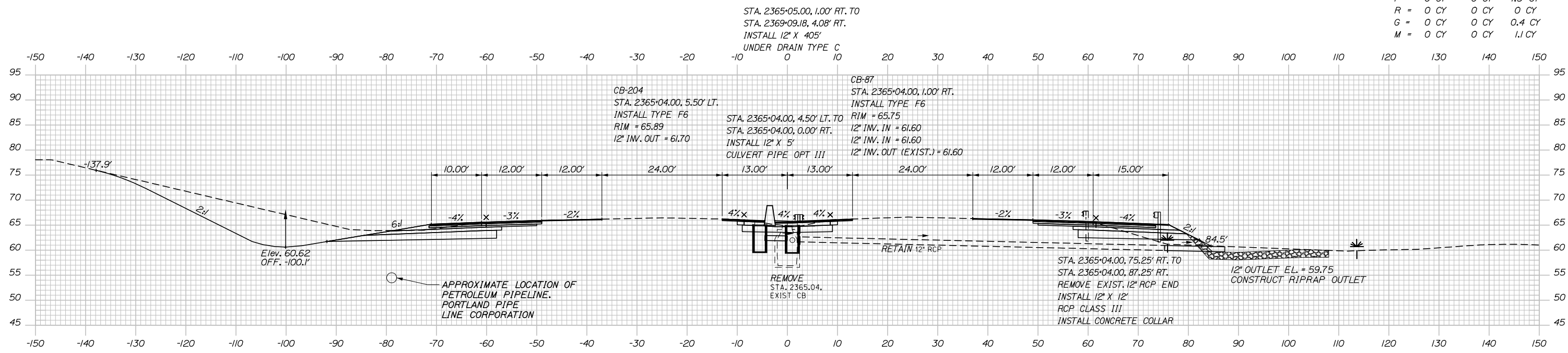
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2364+00 TO STA. j 2364+50

SHEET NUMBER:
 CONTRACT: 2021.08
 198 OF 376

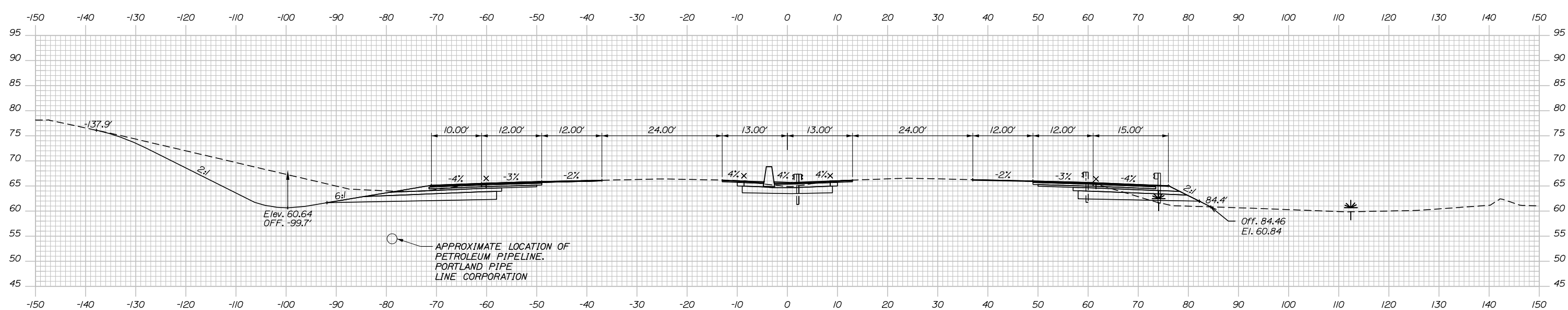
Date: 9/8/2021

	SB	MEDIAN	NB
C	40.9 CY	5.5 CY	5.4 CY
F	0 CY	0 CY	1.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0.4 CY
M	0 CY	0 CY	1.1 CY



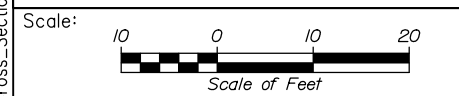
2365+04.00

	SB	MEDIAN	NB
C	310.8 CY	72.9 CY	76.6 CY
F	3.1 CY	0 CY	10.8 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	4.6 CY
M	0 CY	0 CY	8.3 CY



2365+00.00

Filename: PAW2_Cross_Section_75.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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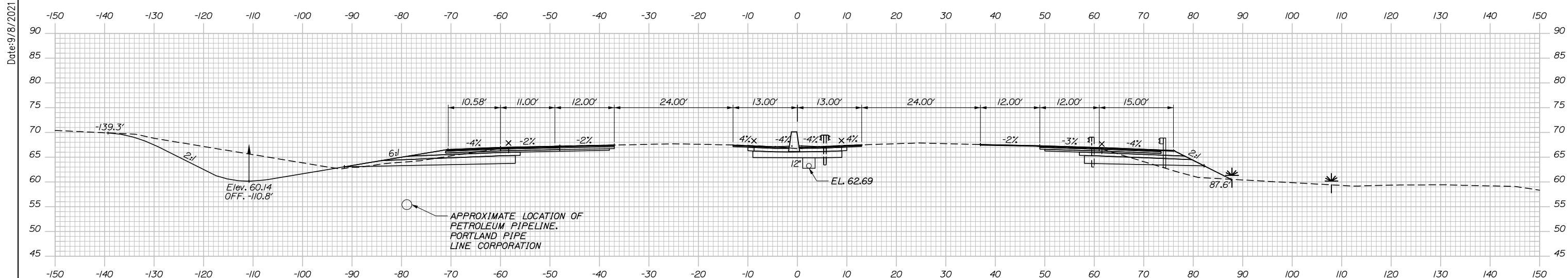
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

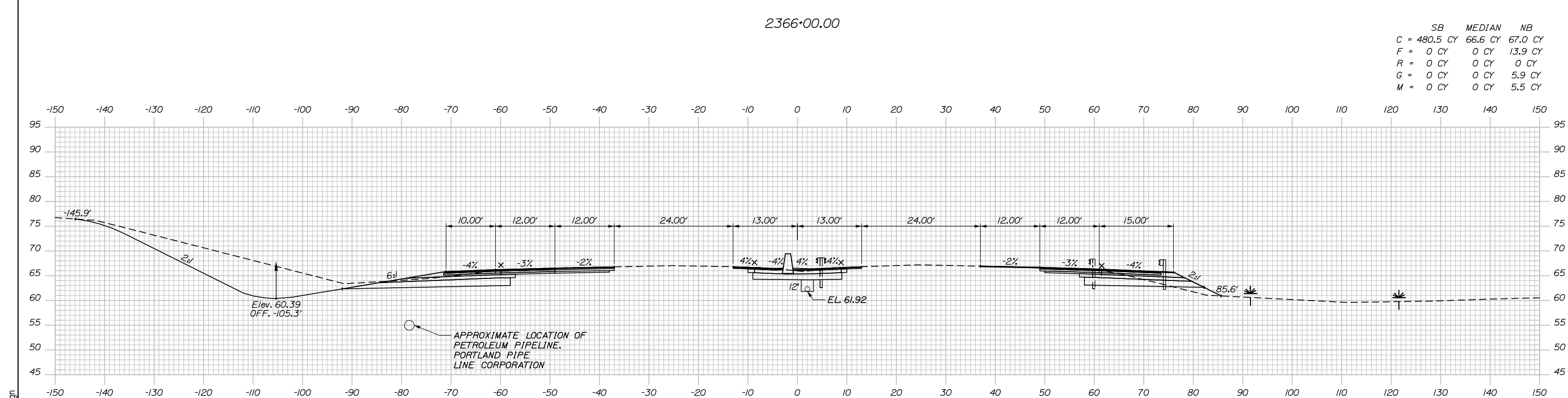
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2365+00 TO STA. j 2365+04
 SHEET NUMBER:
 CONTRACT: 2021.08
 199 OF 376

Date: 9/8/2021



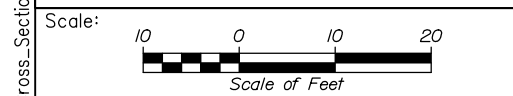
	SB	MEDIAN	NB
C =	459.1 CY	78.8 CY	72.0 CY
F =	1.0 CY	0 CY	25.4 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	8.5 CY
M =	0 CY	0 CY	0 CY

2366+00.00



	SB	MEDIAN	NB
C =	480.5 CY	66.6 CY	67.0 CY
F =	0 CY	0 CY	13.9 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	5.9 CY
M =	0 CY	0 CY	5.5 CY

2365+50.00



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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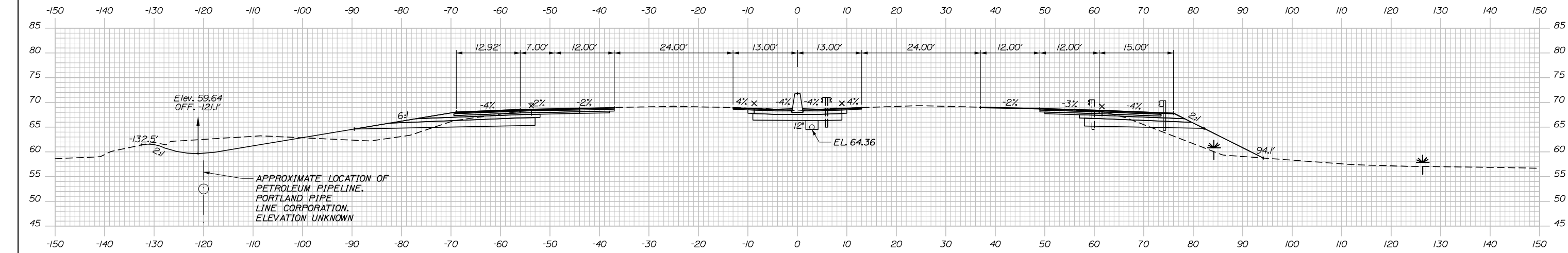
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2365+50 TO STA. j 2366+00

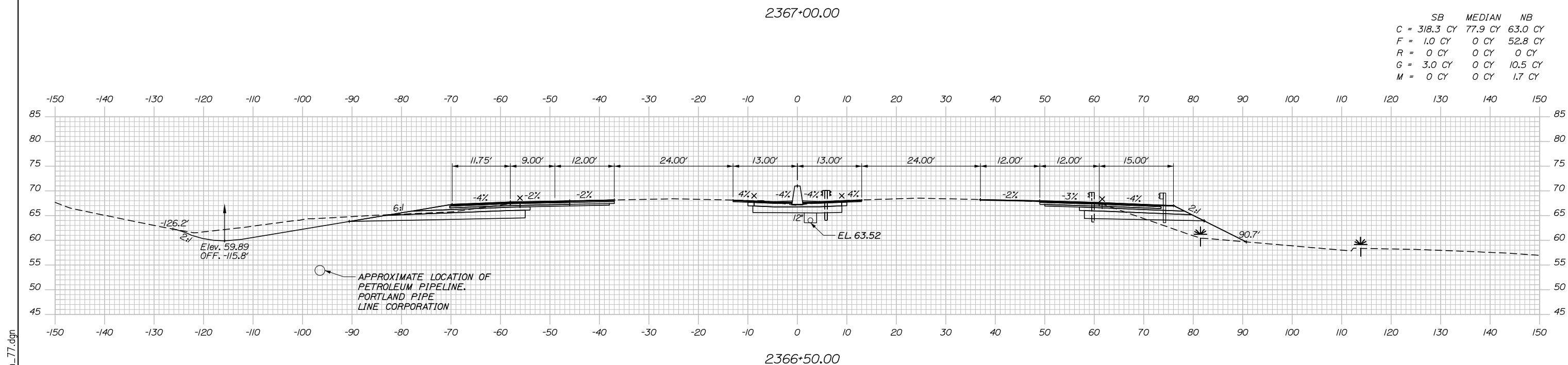
SHEET NUMBER:
 CONTRACT: 2021.08
 200 OF 376

Filename: PAW2_Cross_Section_76.dgn

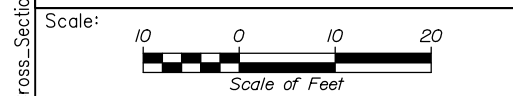
Date: 9/8/2021



	SB	MEDIAN	NB
C	230.0 CY	79.3 CY	63.9 CY
F	36.2 CY	0 CY	79.5 CY
R	0 CY	0 CY	0 CY
G	7.8 CY	0 CY	10.6 CY
M	0 CY	0 CY	1.7 CY



	SB	MEDIAN	NB
C	318.3 CY	77.9 CY	63.0 CY
F	1.0 CY	0 CY	52.8 CY
R	0 CY	0 CY	0 CY
G	3.0 CY	0 CY	10.5 CY
M	0 CY	0 CY	1.7 CY



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	JS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

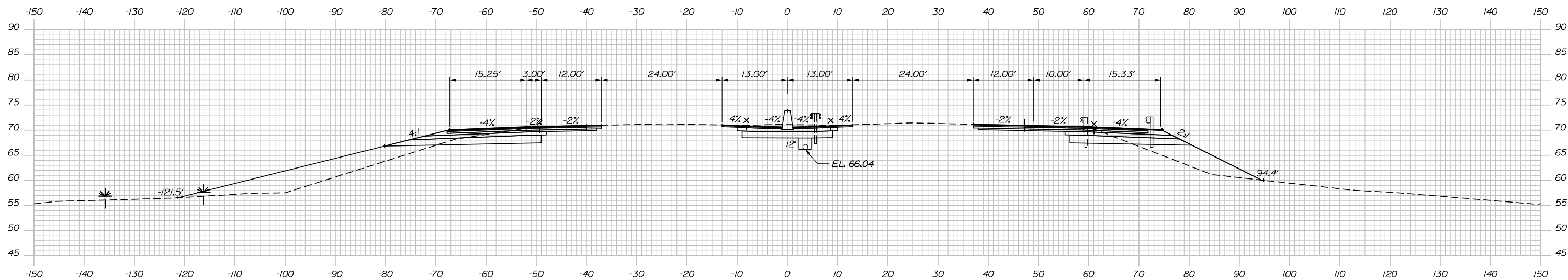
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2366+50 TO STA. j 2367+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 201 OF 376

Filename: PAW2_Cross_Section_77.dgn

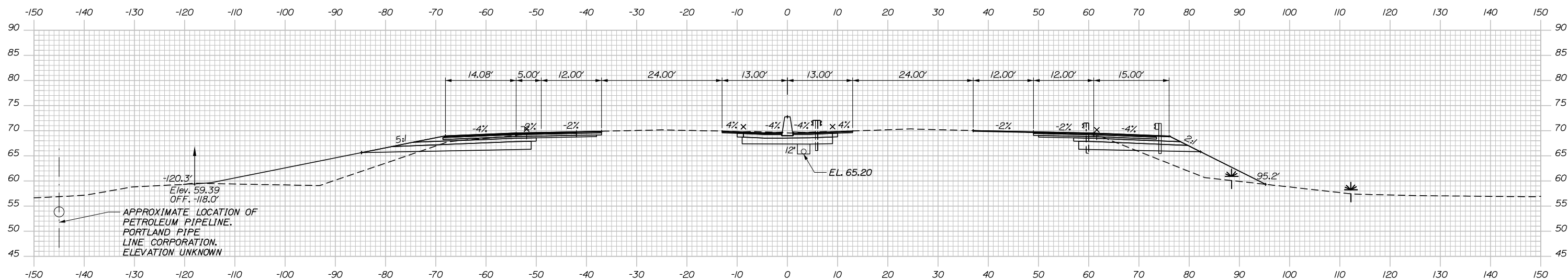
Date: 9/8/2021

	SB	MEDIAN	NB
C	101.8 CY	90.6 CY	68.3 CY
F	228.0 CY	0 CY	116.2 CY
R	0 CY	0 CY	0 CY
G	10.9 CY	0 CY	11.8 CY
M	0 CY	0 CY	0 CY



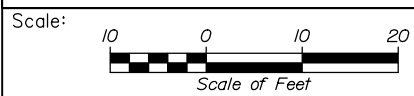
2368+00.00

	SB	MEDIAN	NB
C	154.9 CY	84.5 CY	61.9 CY
F	140.3 CY	0 CY	104.1 CY
R	0 CY	0 CY	0 CY
G	13.5 CY	0 CY	11.1 CY
M	0 CY	0 CY	0 CY



2367+50.00

Filename: PAW2_Cross_Section_78.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2367+50 TO STA. j 2368+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

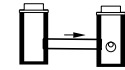
SHEET NUMBER:

202 OF 376

STA. 2369+11.18, 4.08' RT. TO
 STA. 2371+96.00, 4.08' RT.
 INSTALL 6" X 285'
 UNDER DRAIN TYPE B

STA. 2369+10.18, 3.00' LT. TO
 STA. 2369+10.18, 3.00' RT.
 INSTALL 12" X 6'
 CULVERT PIPE OPT III

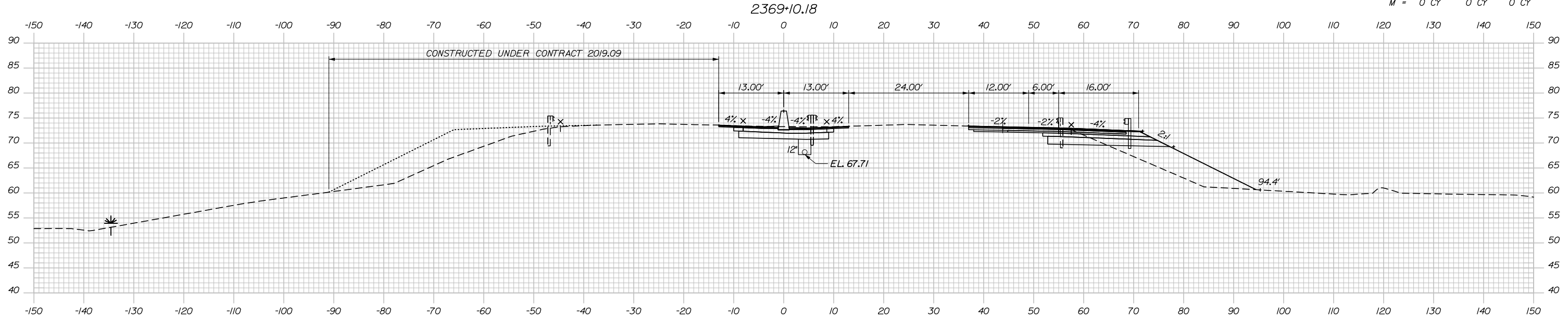
CB-205
 STA. 2369+10.18, 4.08' LT.
 INSTALL TYPE F6
 RIM = 73.52
 12" INV. OUT = 68.69



CB-88
 STA. 2369+10.18, 4.08' RT.
 INSTALL TYPE F6
 RIM = 73.28
 6" INV. IN = 68.77
 12" INV. IN = 68.59
 12" INV. OUT = 68.27

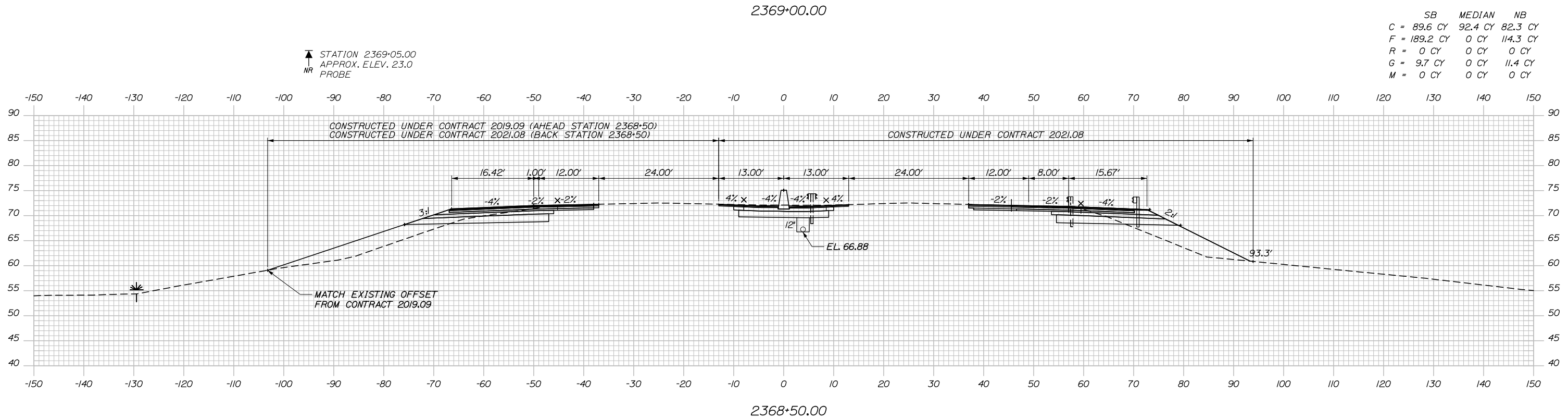
	SB	MEDIAN	NB
C =	0 CY	90.3 CY	80.0 CY
F =	0 CY	0 CY	145.1 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	10.8 CY
M =	0 CY	0 CY	0 CY

Date: 9/8/2021

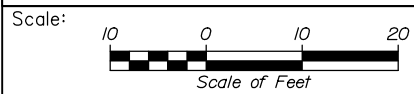


	SB	MEDIAN	NB
C =	89.6 CY	92.4 CY	82.3 CY
F =	189.2 CY	0 CY	114.3 CY
R =	0 CY	0 CY	0 CY
G =	9.7 CY	0 CY	11.4 CY
M =	0 CY	0 CY	0 CY

STATION 2369+05.00
 APPROX. ELEV. 23.0
 NR PROBE



Filename: PAW2_Cross_Section_79.dgn



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2368+50 TO STA. j 2369+00

SHEET NUMBER:

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
No.	Revision	By	Date	By	Date
Designed		JS	09\21	Checked	PJS 09\21
Drawn		GW	09\21	In Charge of	TRC 09\21

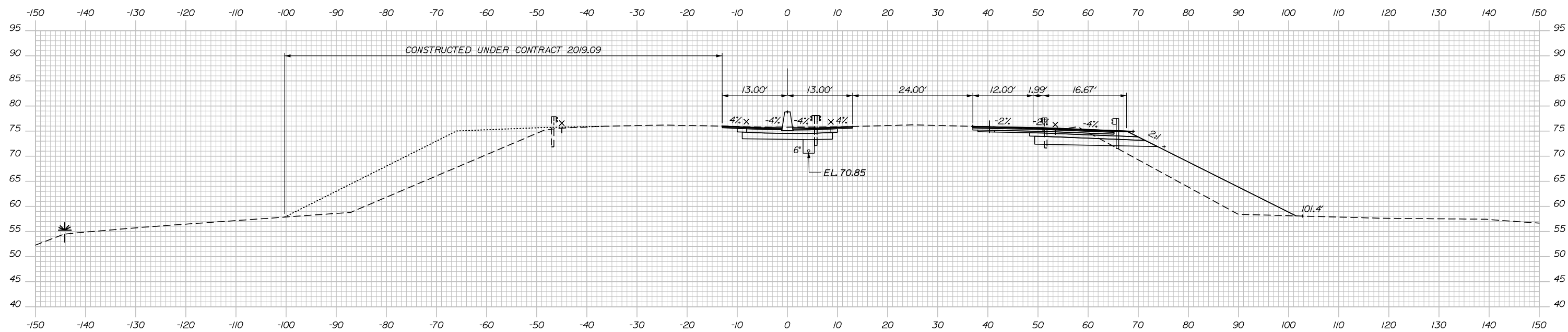
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

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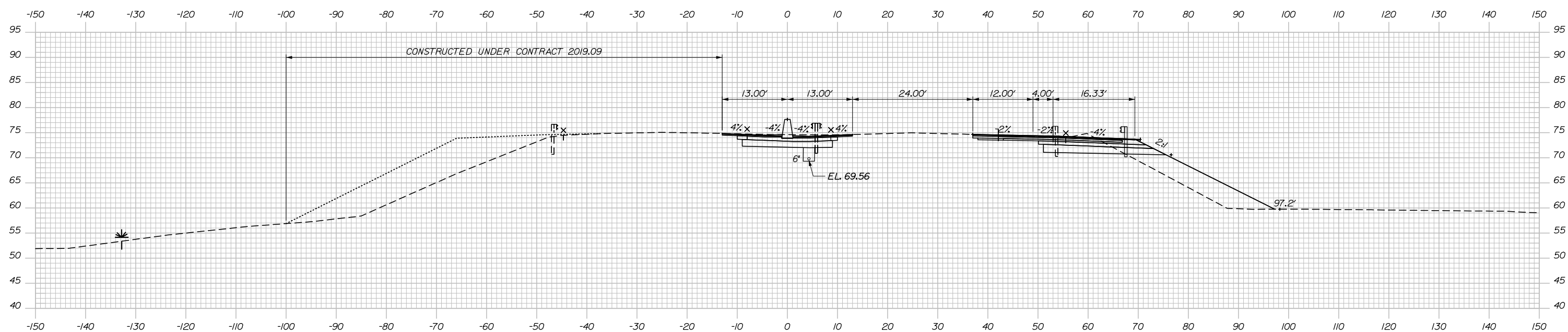
Date: 9/8/2021

MEDIAN NB
 C = 90.9 CY 100.1 CY
 F = 0 CY 235.6 CY
 R = 0 CY 0 CY
 G = 0 CY 8.6 CY
 M = 0 CY 0 CY



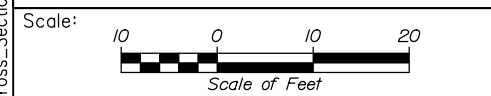
2370+00.00

MEDIAN NB
 C = 90.9 CY 89.8 CY
 F = 0 CY 183.5 CY
 R = 0 CY 0 CY
 G = 0 CY 9.7 CY
 M = 0 CY 0 CY



2369+50.00

Filename: PAW2_Cross_Section_80.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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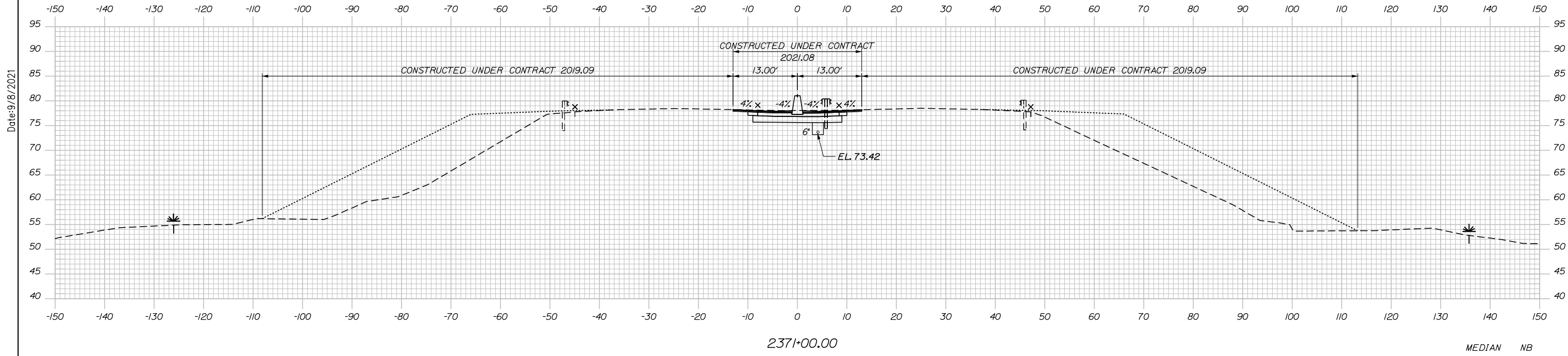
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

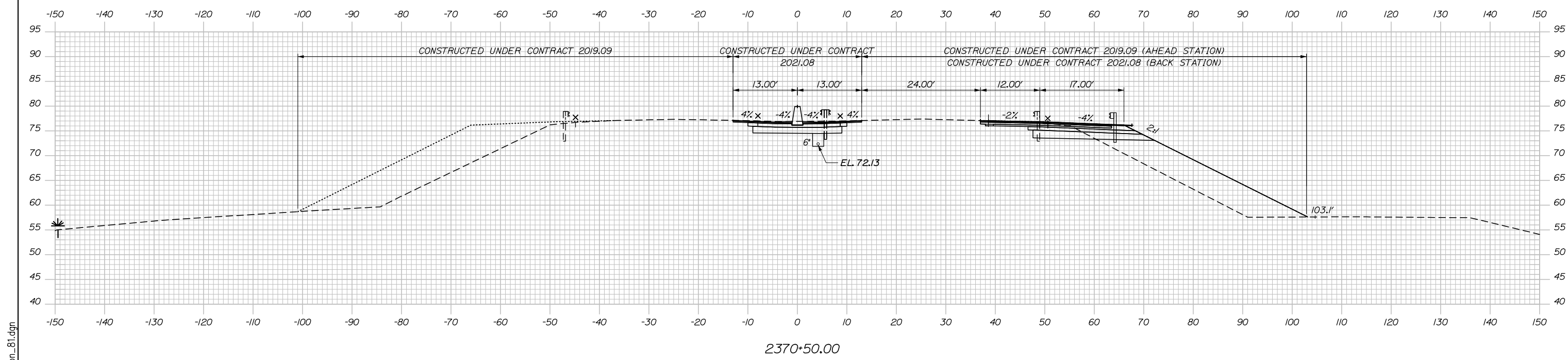
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2369+50 TO STA. j 2370+00

SHEET NUMBER:
 CONTRACT: 2021.08

MEDIAN NB
 C = 89.6 CY 36.2 CY
 F = 0 CY 192.3 CY
 R = 0 CY 0 CY
 G = 0 CY 4.5 CY
 M = 0 CY 0 CY



MEDIAN NB
 C = 89.8 CY 84.1 CY
 F = 0 CY 332.7 CY
 R = 0 CY 0 CY
 G = 0 CY 8.8 CY
 M = 0 CY 0 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2370+50 TO STA. j 2371+00

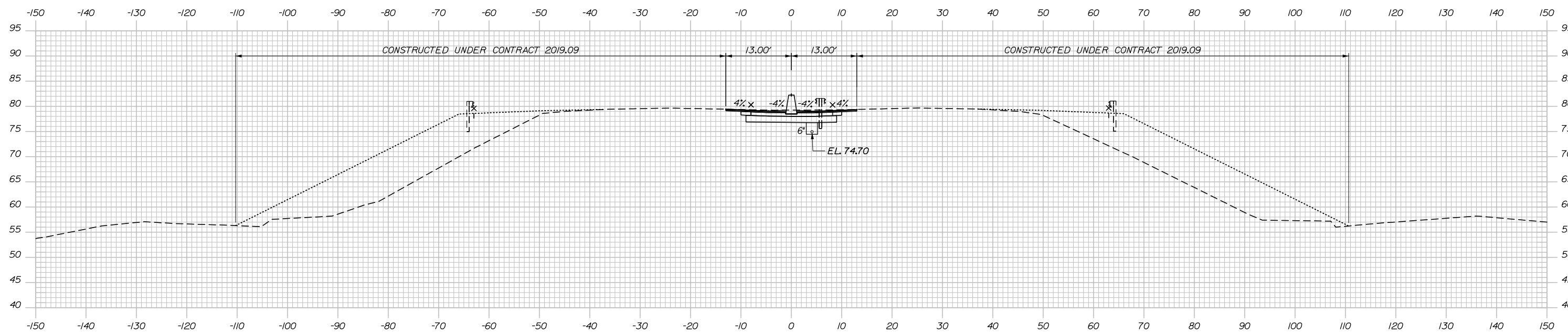
SHEET NUMBER:
 CONTRACT:2021.08 205 OF 376

Filename: PAW2_Cross_Section_81.dgn

Date:9/8/2021

Date: 9/8/2021

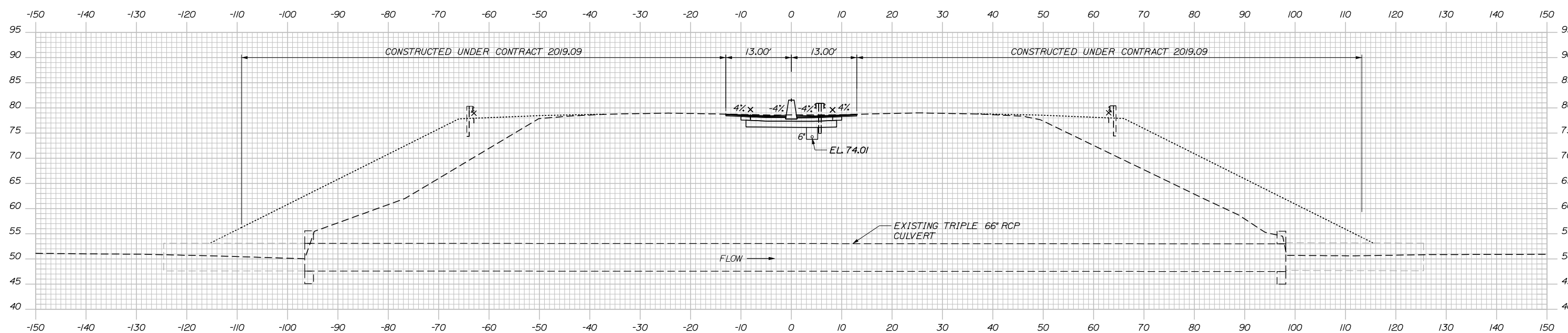
MEDIAN
 C = 48.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2371+50.00

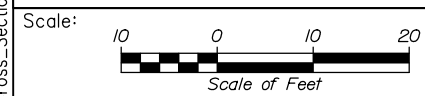
NR
 STATION 2371+70.00
 APPROX. ELEV. 4.0
 PROBE

MEDIAN
 C = 41.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2371+23.27

Filename: PAW2_Cross_Section_82.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

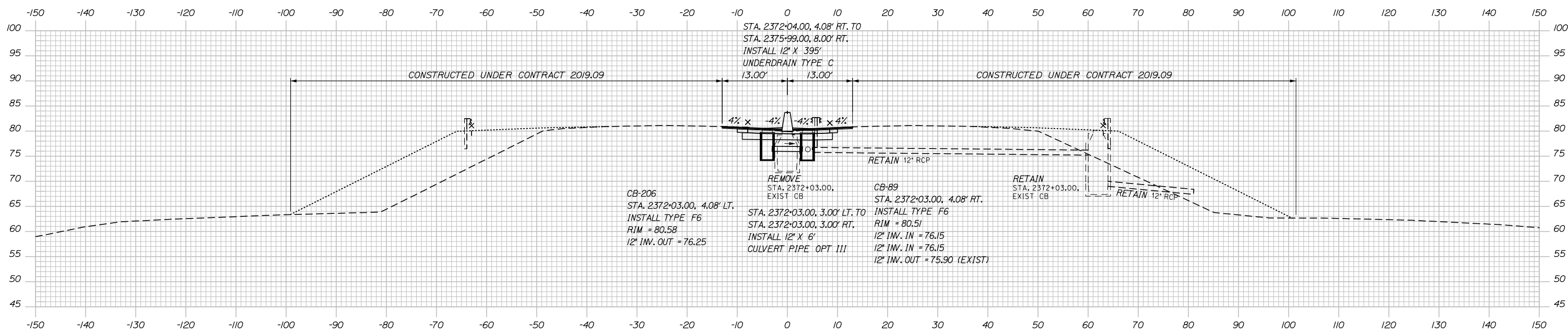
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2371+23 TO STA. j 2371+50

SHEET NUMBER:
 CONTRACT: 2021.08
 206 OF 376

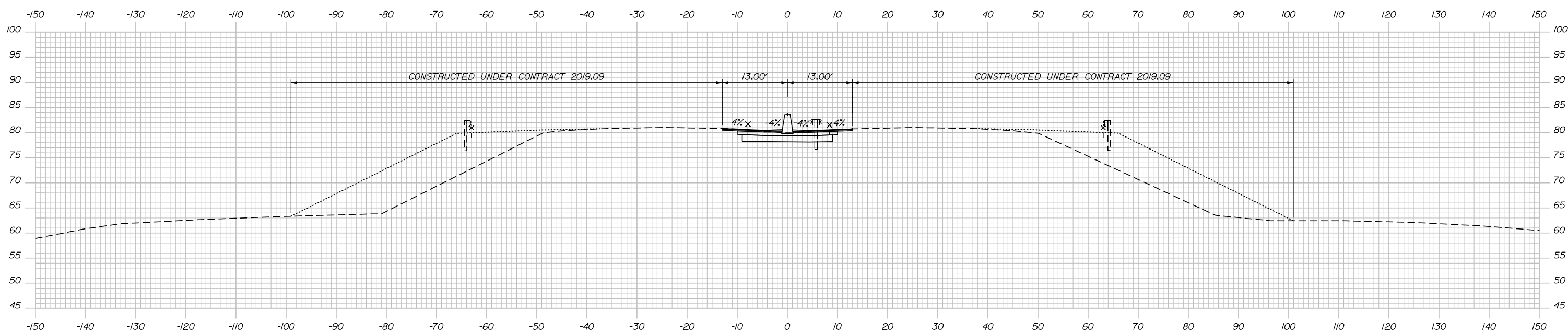
Date: 9/8/2021

MEDIAN
 C = 4.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



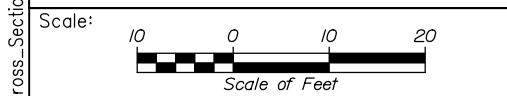
2372+03.00

MEDIAN
 C = 84.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2372+00.00

STATION 2371+80.00
 APPROX. ELEV. 11.0
 NR PROBE



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

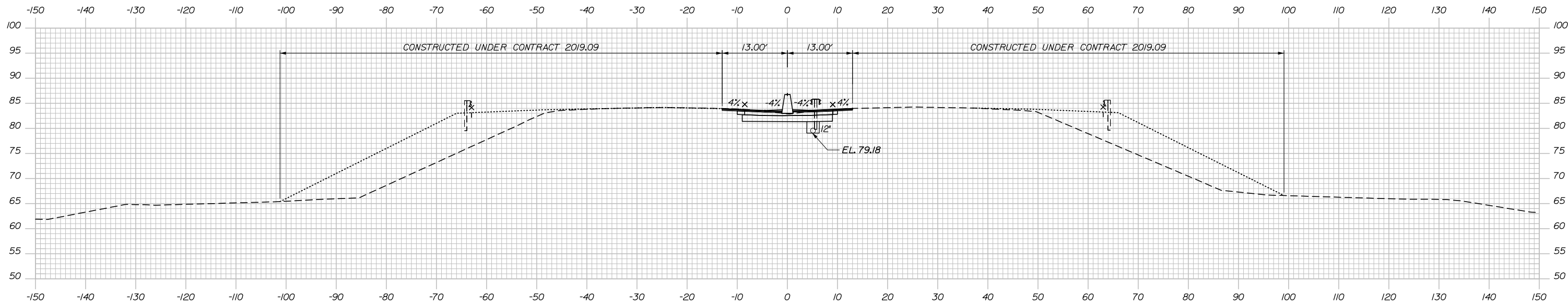
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2372+00 TO STA. j 2372+03
 SHEET NUMBER:
 CONTRACT: 2021.08
 207 OF 376

Filename: PAW2_Cross_Section_83.dgn

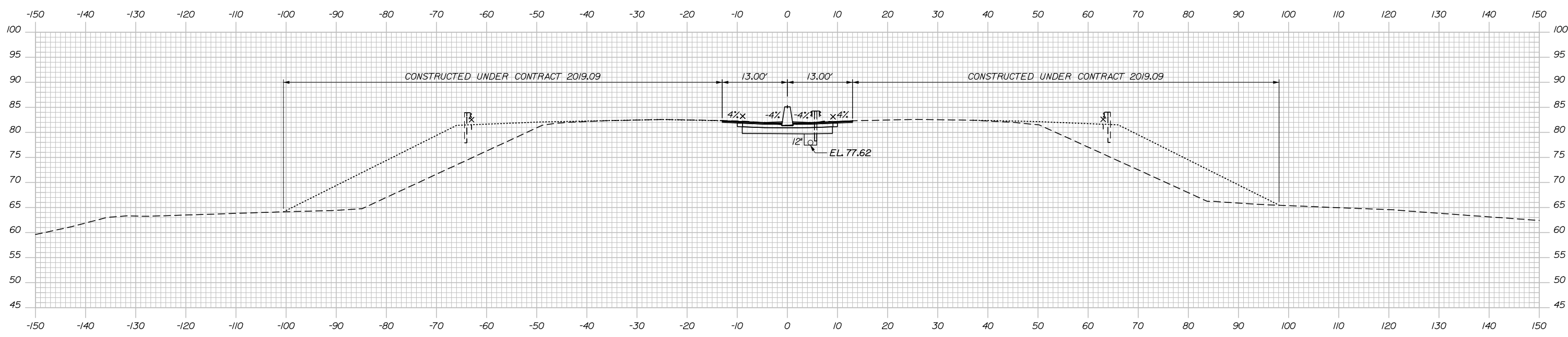
Date: 9/8/2021

MEDIAN
 C = 77.0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



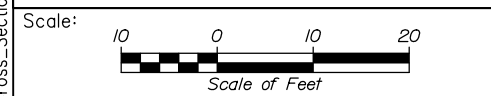
2373+00.00

MEDIAN
 C = 72.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2372+50.00

Filename: PAW2_Cross_Section_84.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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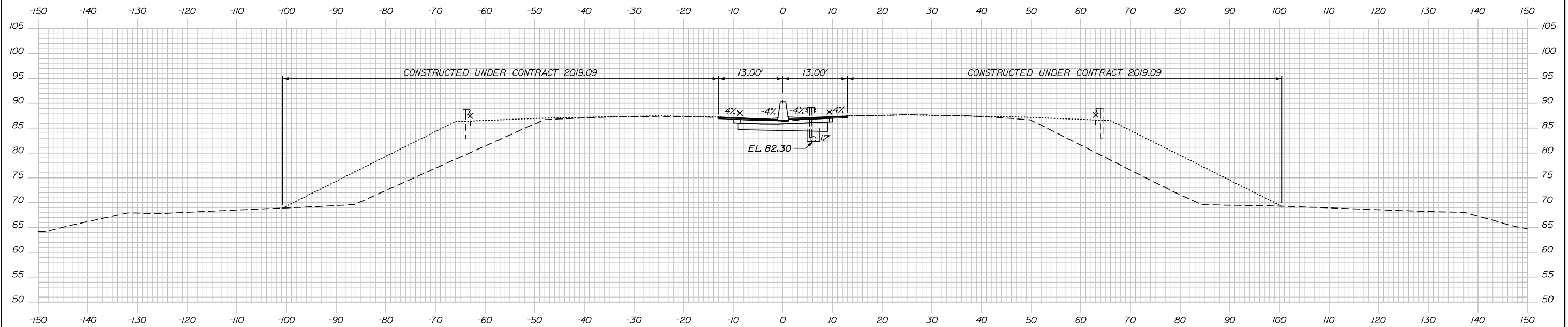
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2372+50 TO STA. j 2373+00

SHEET NUMBER:
 CONTRACT: 2021.08

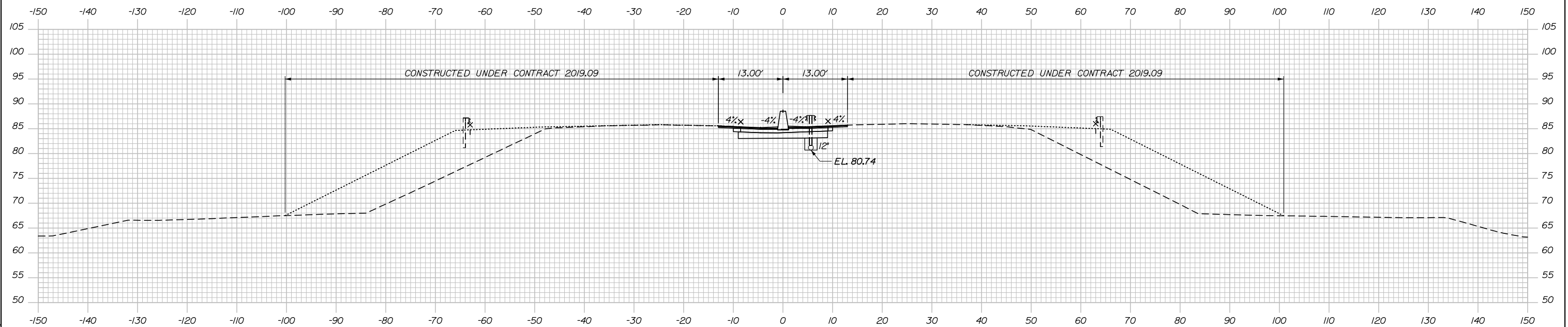
Date: 9/8/2021

MEDIAN
 C = 75.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



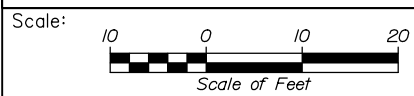
2374+00.00

MEDIAN
 C = 75.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2373+50.00

Filename: PAW2_Cross_Section_85.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2373+50 TO STA. j 2374+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

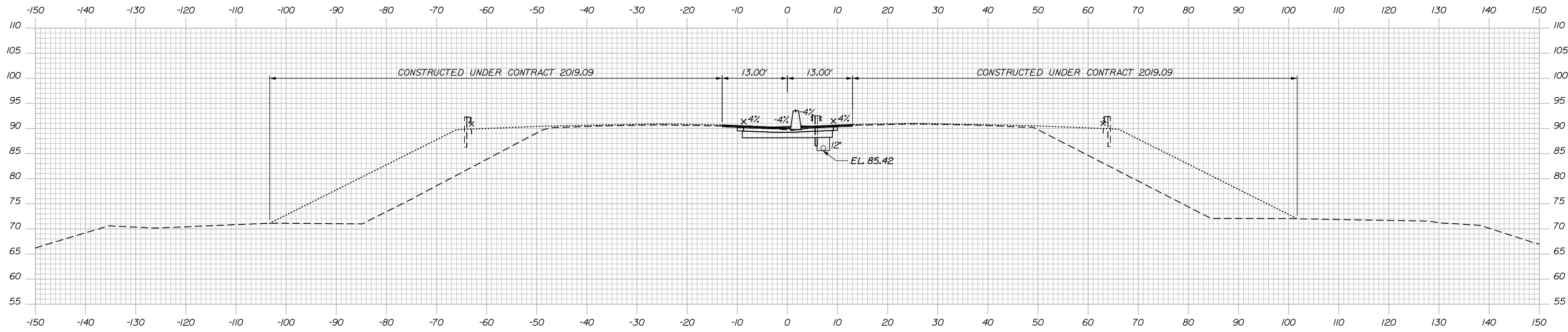
CONTRACT: 2021.08

SHEET NUMBER:

209 OF 376

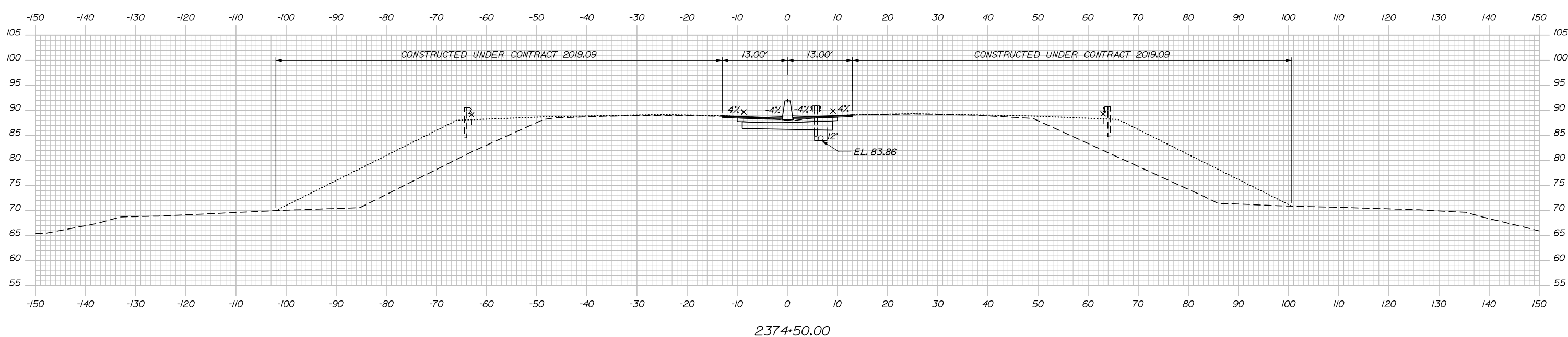
Date: 9/8/2021

MEDIAN
 C = 70.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

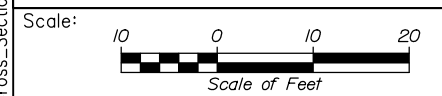


↑
 NR
 STATION 2375+05.00
 APPROX. ELEV. 8.0
 PROBE

MEDIAN
 C = 72.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_86.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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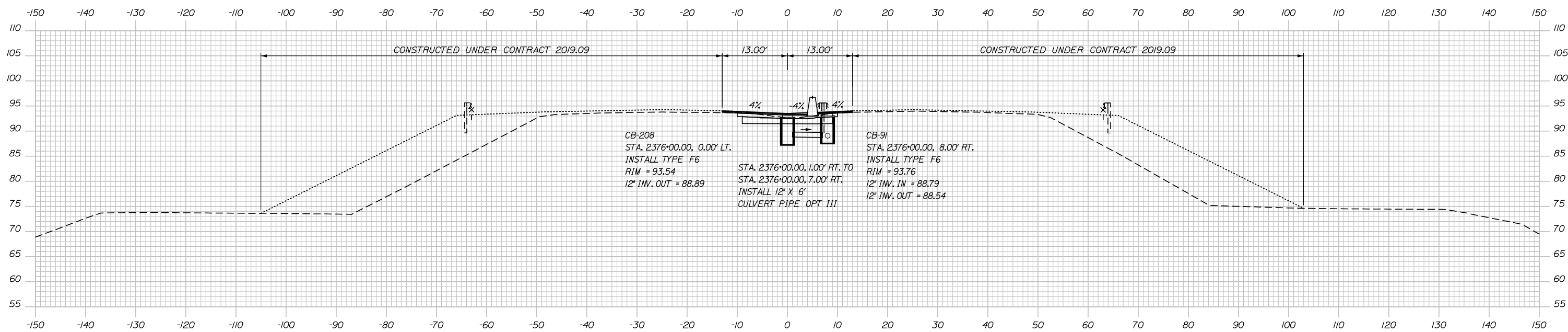
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2374+50 TO STA. j 2375+00

SHEET NUMBER:
 CONTRACT: 2021.08
 210 OF 376

Date: 9/8/2021

MEDIAN
 C = 61.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



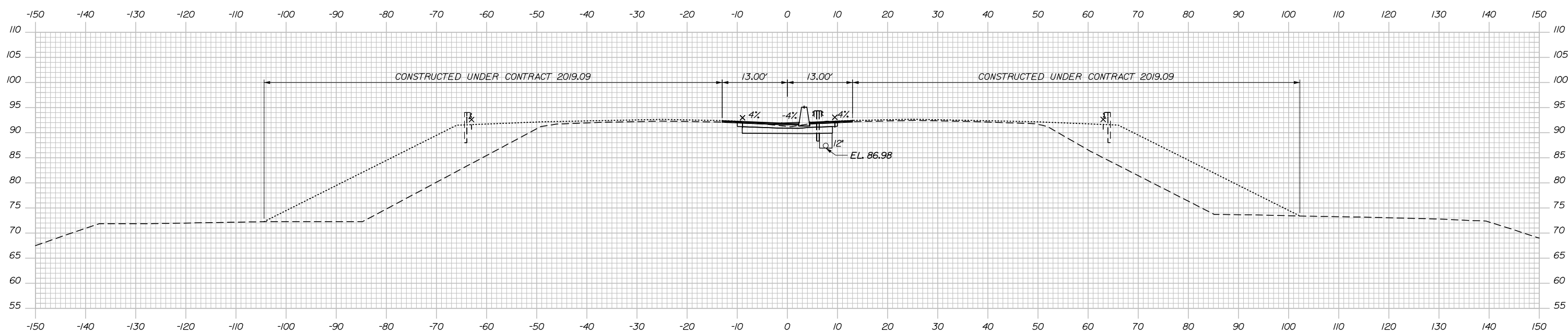
CB-208
 STA. 2376+00.00, 0.00' LT.
 INSTALL TYPE F6
 RIM = 93.54
 12" INV. OUT = 88.89

STA. 2376+00.00, 1.00' RT. TO
 STA. 2376+00.00, 7.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

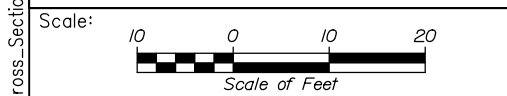
CB-91
 STA. 2376+00.00, 8.00' RT.
 INSTALL TYPE F6
 RIM = 93.76
 12" INV. IN = 88.79
 12" INV. OUT = 88.54

2376+00.00

MEDIAN
 C = 68.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2375+50.00



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

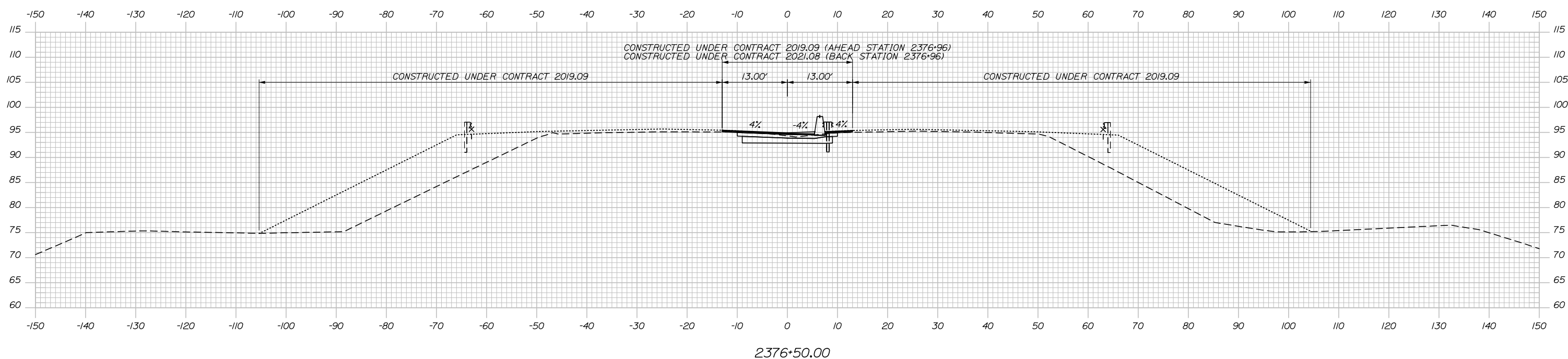
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. j 2375+50 TO STA. j 2376+00

SHEET NUMBER:
 CONTRACT: 2021.08
 211 OF 376

Filename: PAW2_Cross_Section_87.dgn

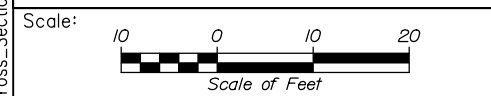
Date: 9/8/2021

Filename: PAW2_Cross_Section_88.dgn



MEDIAN
 C = 59.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

2376+50.00



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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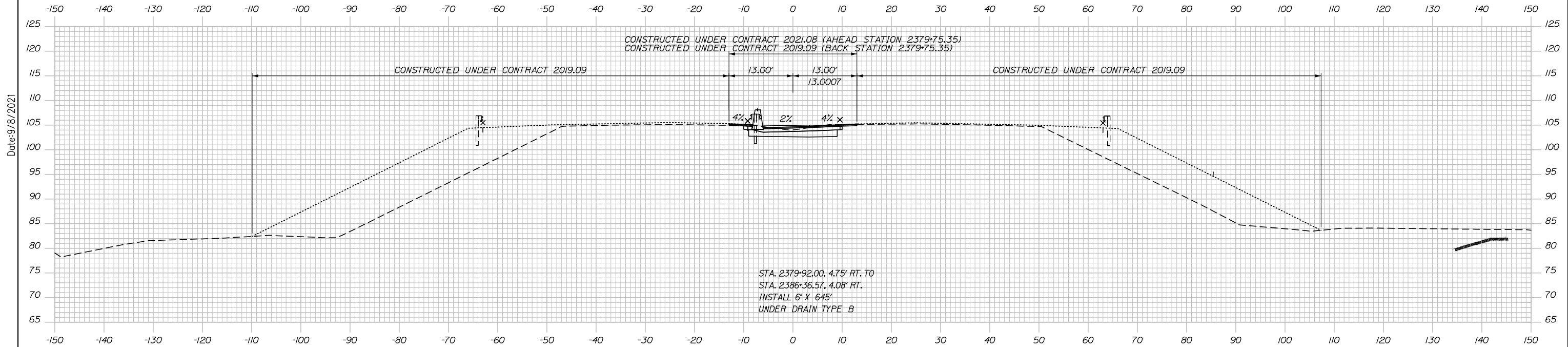
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

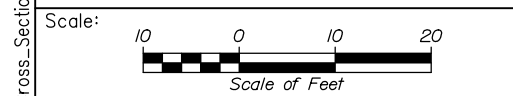
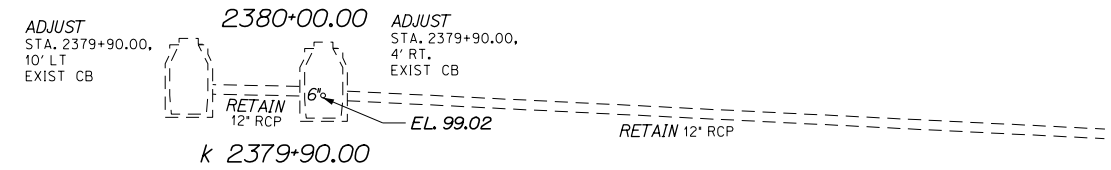
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2376+50

SHEET NUMBER:
 CONTRACT: 2021.08

MEDIAN
 C = 33.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



STA. 2379+92.00, 4.75' RT. TO
 STA. 2386+36.57, 4.08' RT.
 INSTALL 6" X 645"
 UNDER DRAIN TYPE B



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

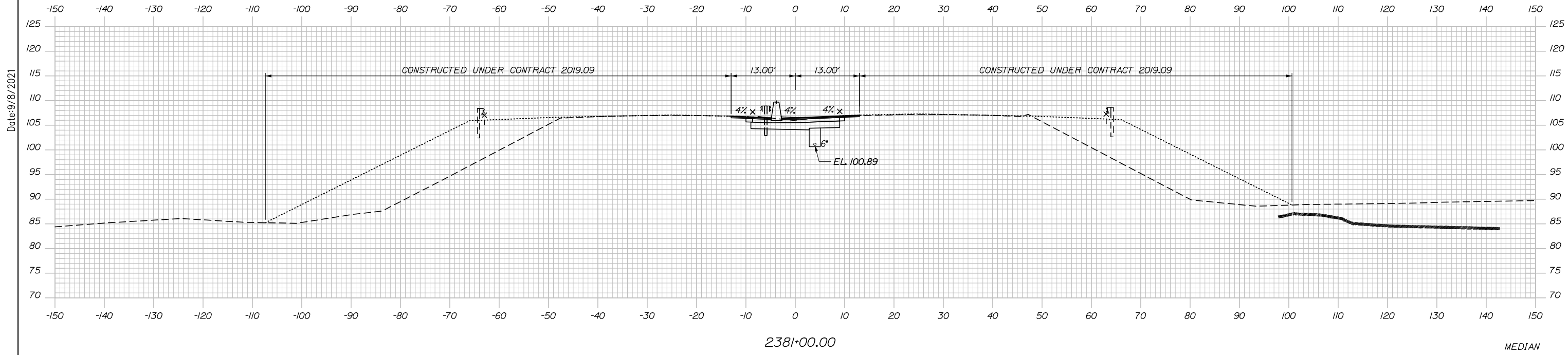
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2380+00

SHEET NUMBER:
 CONTRACT:2021.08
 213 OF 376

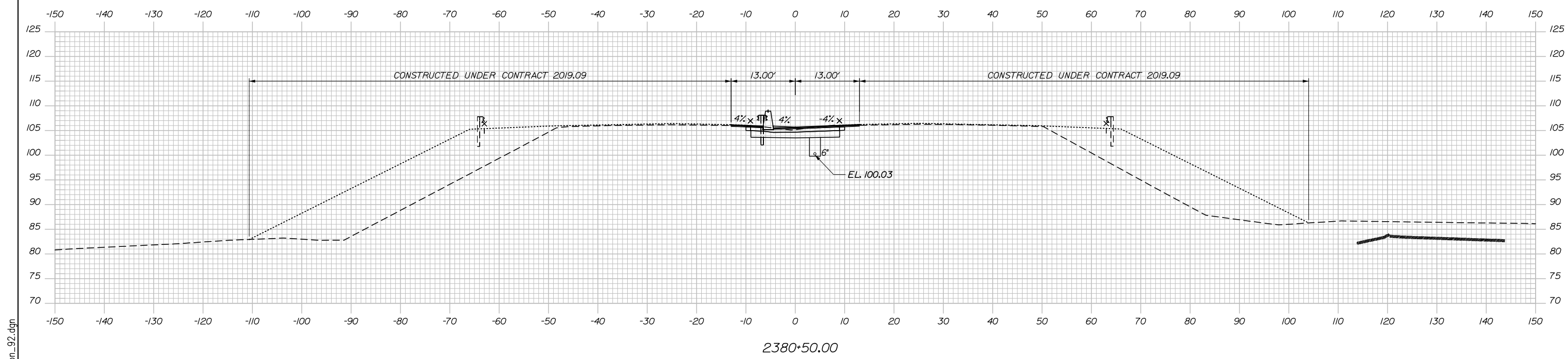
Filename: PAW2_Cross_Section_91.dgn

Date:9/8/2021

MEDIAN
 C = 74.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



MEDIAN
 C = 70.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2380+50 TO STA. k 2381+00

SHEET NUMBER:
 CONTRACT:2021.08

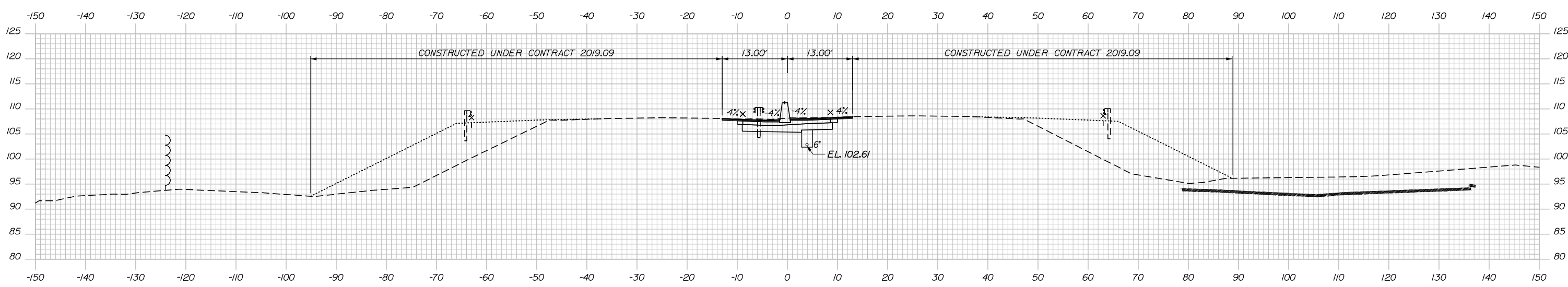
214 OF 376

Filename: PAW2_Cross_Section_92.dgn

Date:9/8/2021

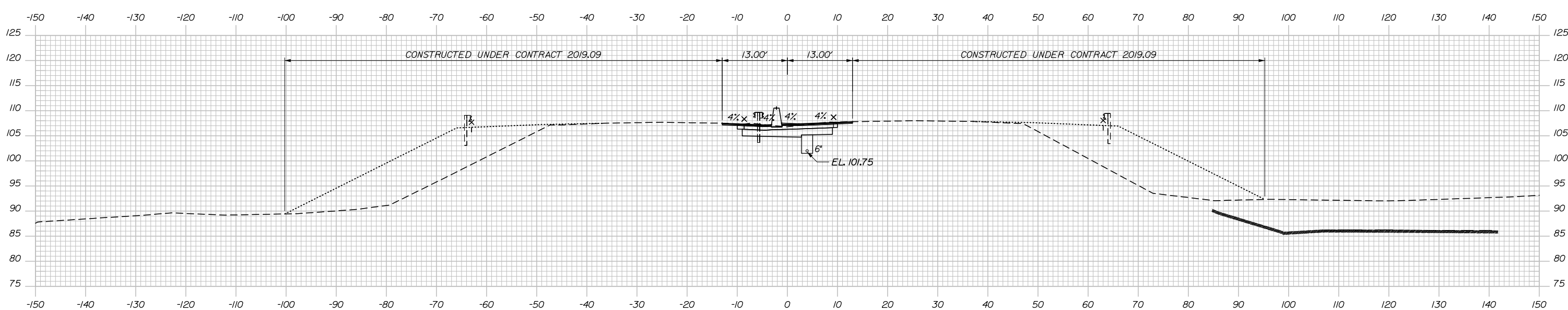
Date: 9/8/2021

MEDIAN
 C = 83.0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

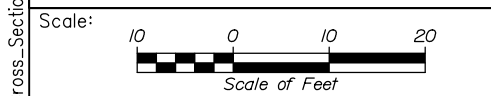


2382+00.00

MEDIAN
 C = 77.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



2381+50.00



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

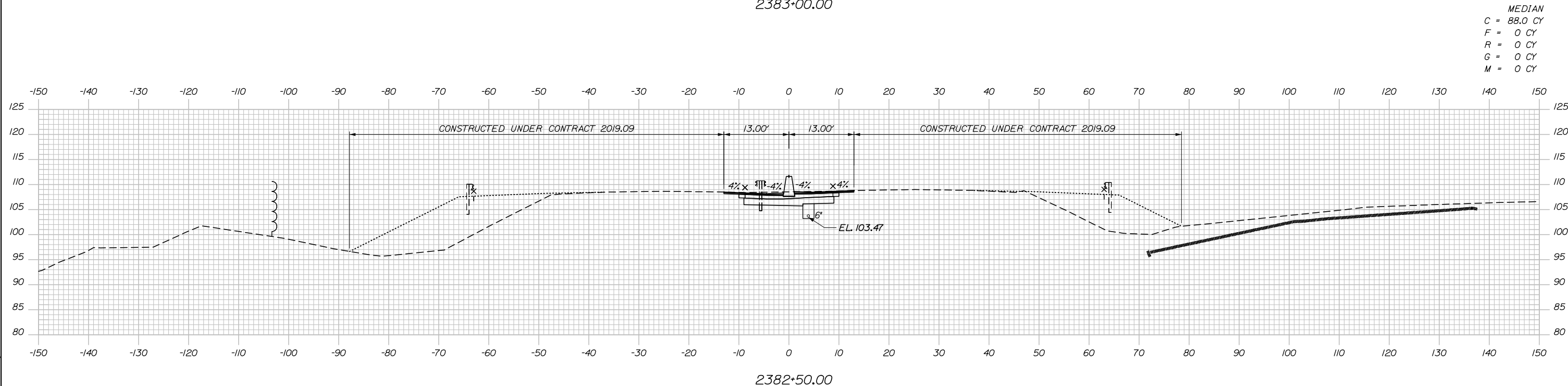
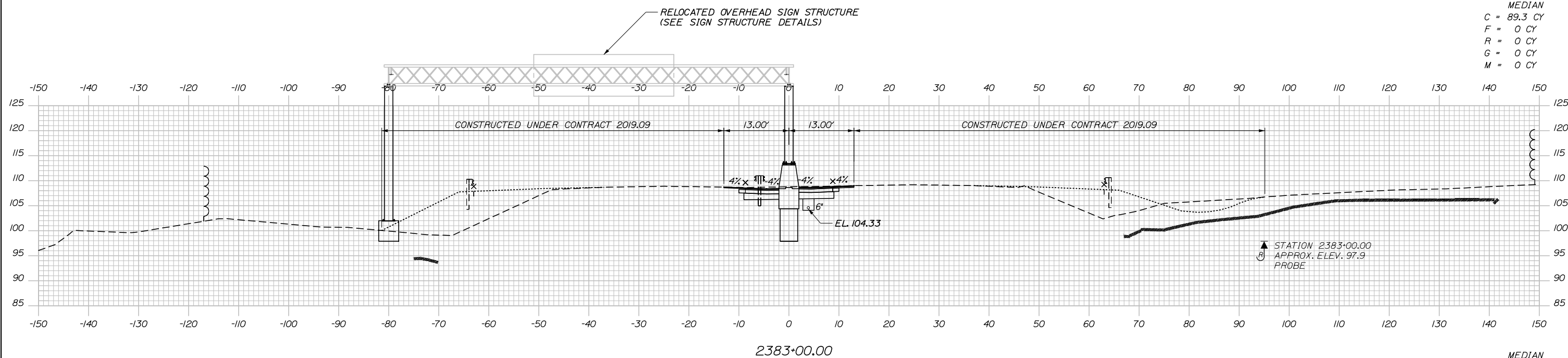
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2381+50 TO STA. k 2382+00

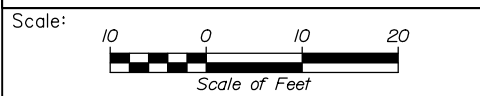
SHEET NUMBER:
 CONTRACT: 2021.08

Filename: PAW2_Cross_Section_93.dgn

Date: 9/8/2021



Filename: PAW2_Cross_Section_94.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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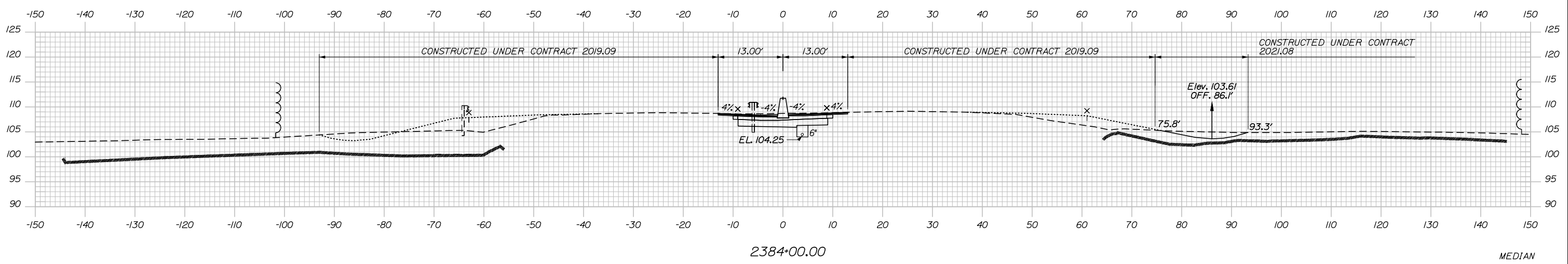
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2382+50 TO STA. k 2383+00

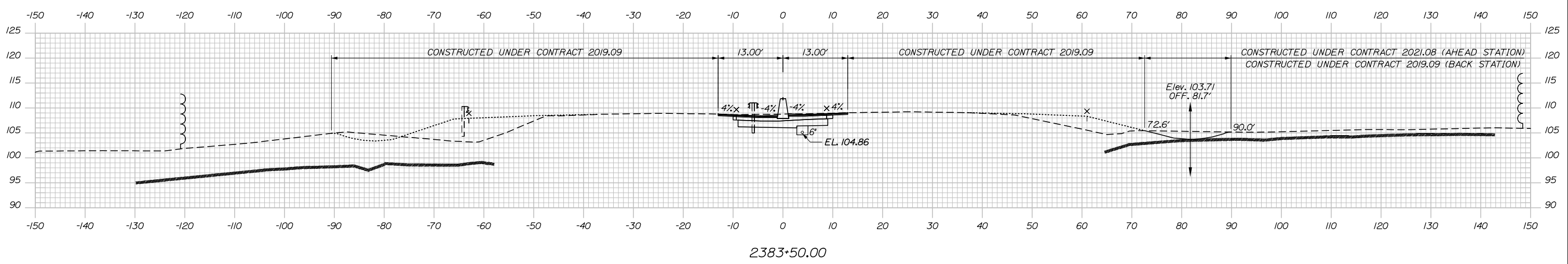
SHEET NUMBER:
 CONTRACT: 2021.08

Date: 9/8/2021

MEDIAN NB
 C = 89.1 CY 0 CY
 F = 0 CY 0 CY
 R = 0 CY 0 CY
 G = 0 CY 0 CY
 M = 0 CY 0 CY



MEDIAN
 C = 89.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_95.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

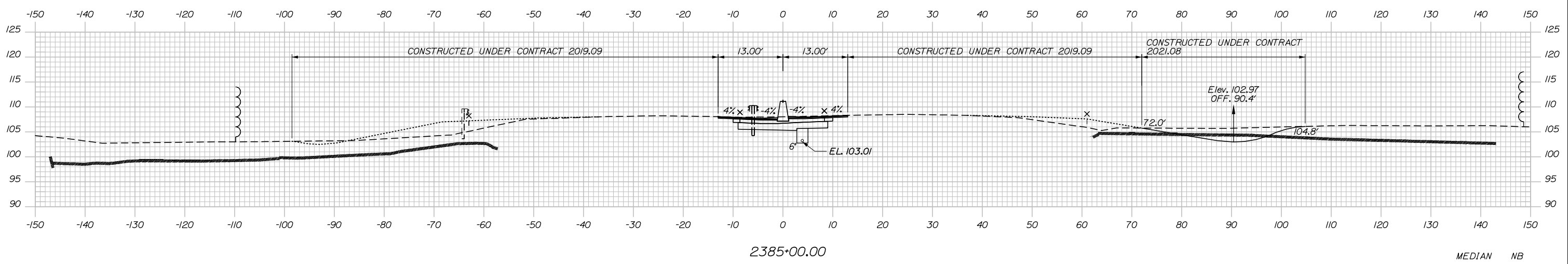
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2383+50 TO STA. k 2384+00

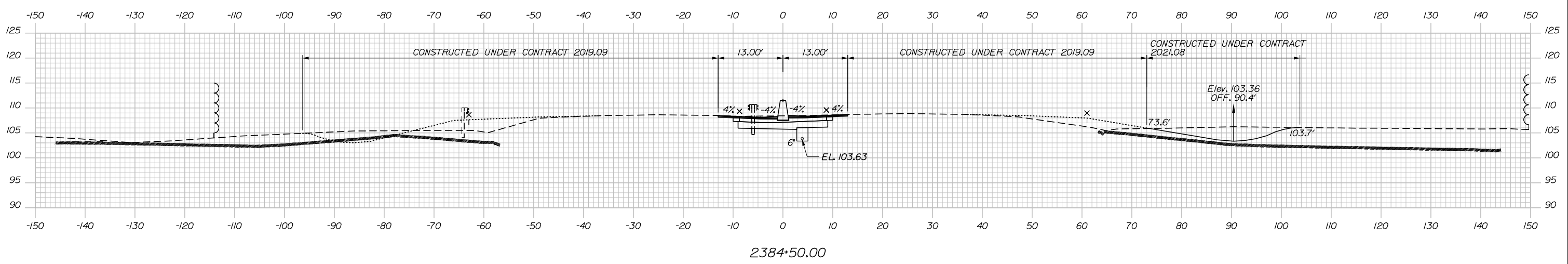
SHEET NUMBER:
 CONTRACT: 2021.08 217 OF 376

Date: 9/8/2021

	MEDIAN	NB
C	88.3 CY	69.3 CY
F	0 CY	0 CY
R	9.9 CY	18.5 CY
G	0 CY	0 CY
M	0 CY	0 CY



	MEDIAN	NB
C	88.7 CY	56.1 CY
F	0 CY	0 CY
R	8.1 CY	0 CY
G	0 CY	0 CY
M	0 CY	0 CY



Filename: PAW2_Cross_Section_96.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2384+50 TO STA. k 2385+00

SHEET NUMBER:
 CONTRACT: 2021.08
 218 OF 376

Date: 9/8/2021

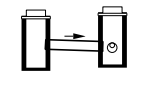
STA. 2386+37.57, 3.00' LT. TO
 STA. 2386+37.57, 3.00' RT.
 INSTALL 12" X 6'
 CULVERT PIPE OPT III

CB-210
 STA. 2386+37.57, 4.08' LT.
 INSTALL TYPE F6
 RIM = 105.94
 12" INV. OUT = 101.44

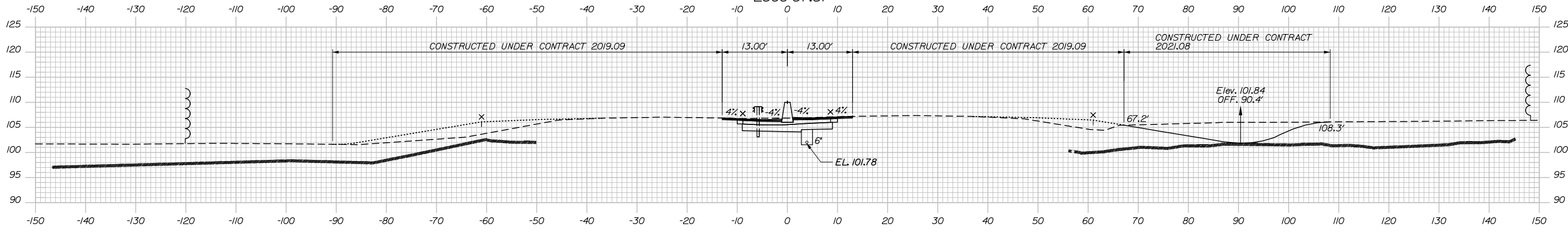
STA. 2386+37.57, 4.08' RT. TO
 STA. 2390+48.00, 4.75' RT.
 INSTALL 12" X 410'
 UNDERDRAIN TYPE C

CB-93
 STA. 2386+37.57, 4.08' RT.
 INSTALL TYPE F6
 RIM = 106.27
 6" INV. IN = 101.34
 12" INV. IN = 101.34
 12" INV. OUT = 101.06

	MEDIAN	NB
C	88.2 CY	133.0 CY
F	0 CY	0 CY
R	0.6 CY	19.4 CY
G	0 CY	0 CY
M	0 CY	0 CY

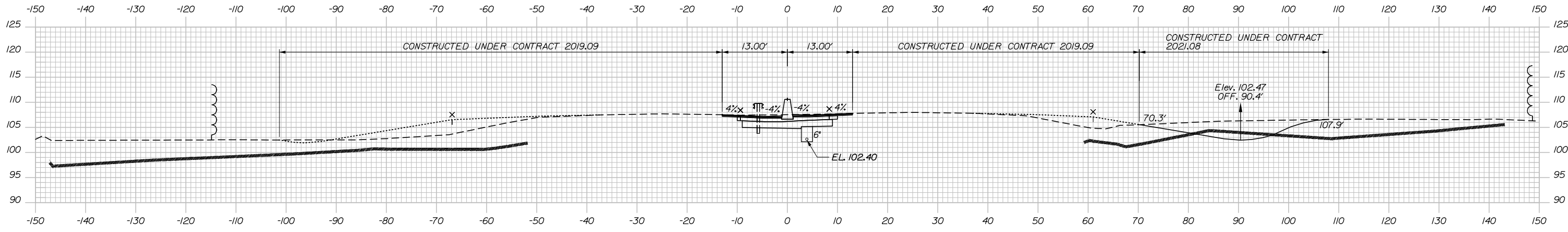


2386+37.57



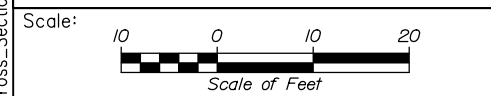
	MEDIAN	NB
C	88.7 CY	77.2 CY
F	0 CY	0 CY
R	2.3 CY	38.0 CY
G	0 CY	0 CY
M	0 CY	0 CY

2386+00.00



2385+50.00

Filename: PAW2_Cross_Section_97.dgn



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

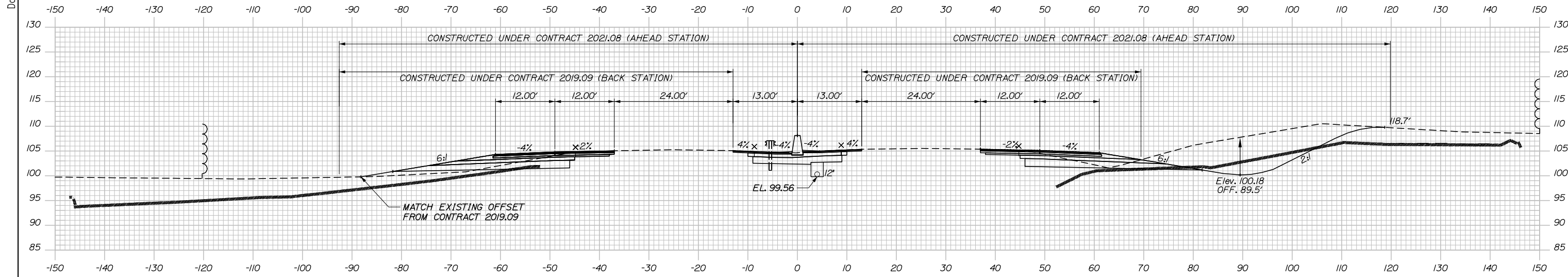
HNTB CORPORATION
 82 Running Hill Road, Suite 201
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

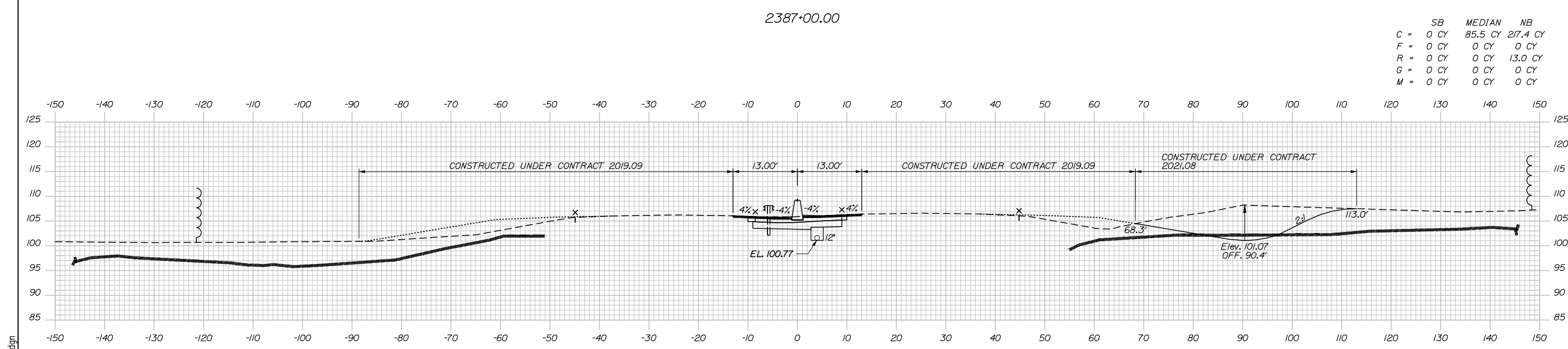
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2385+50 TO STA. k 2386+00
 SHEET NUMBER:
 CONTRACT: 2021.08

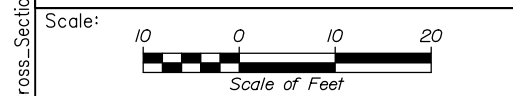
Date: 9/8/2021



	SB	MEDIAN	NB
C	0 CY	82.3 CY	336.5 CY
F	0 CY	0 CY	29.8 CY
R	0.2 CY	0 CY	88.7 CY
G	0 CY	0 CY	0.6 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	0 CY	85.5 CY	217.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	13.0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

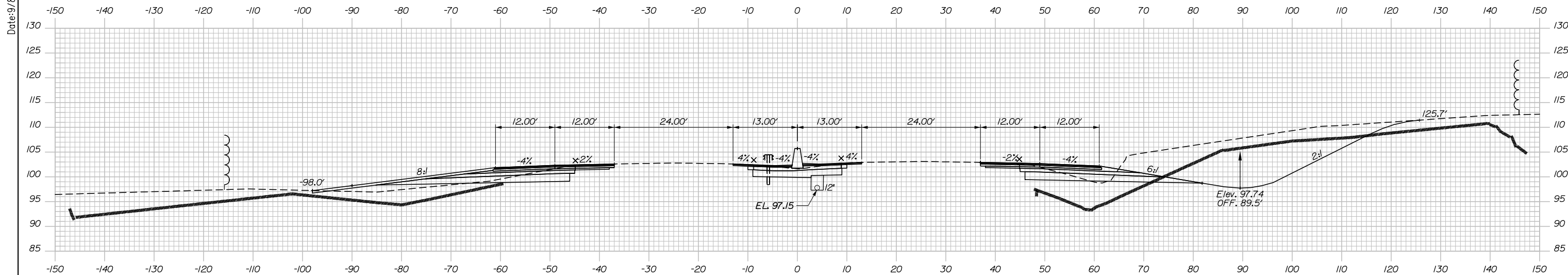
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2386+50 TO STA. k 2387+00

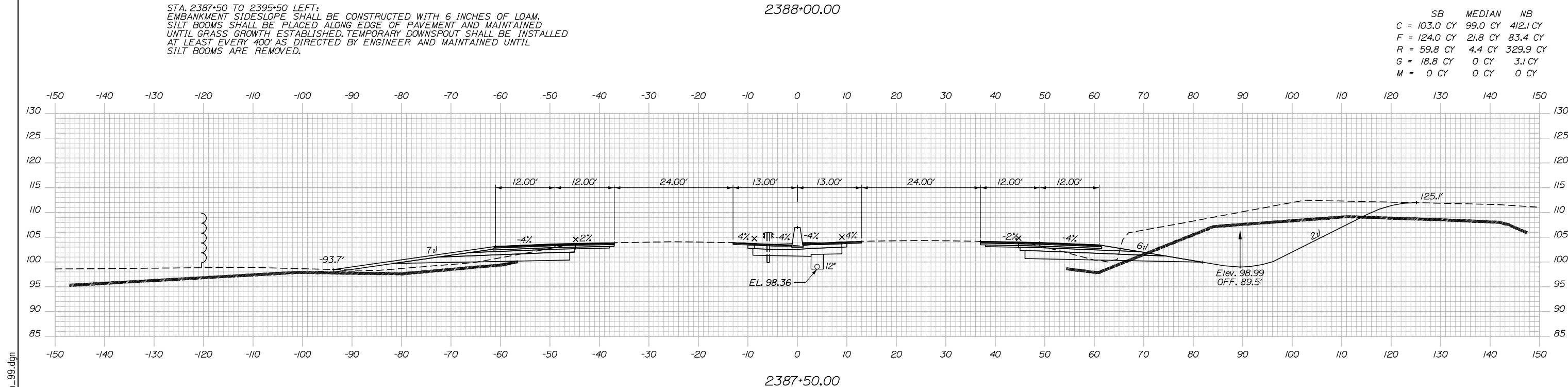
SHEET NUMBER:
 CONTRACT: 2021.08
 220 OF 376

Filename: PAW2_Cross_Section_98.dgn

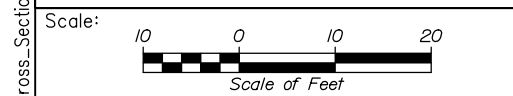
Date: 9/8/2021



	SB	MEDIAN	NB
C	100.5 CY	93.8 CY	392.4 CY
F	108.9 CY	21.8 CY	79.2 CY
R	35.6 CY	6.1 CY	472.5 CY
G	22.5 CY	0 CY	4.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	103.0 CY	99.0 CY	412.1 CY
F	124.0 CY	21.8 CY	83.4 CY
R	59.8 CY	4.4 CY	329.9 CY
G	18.8 CY	0 CY	3.1 CY
M	0 CY	0 CY	0 CY



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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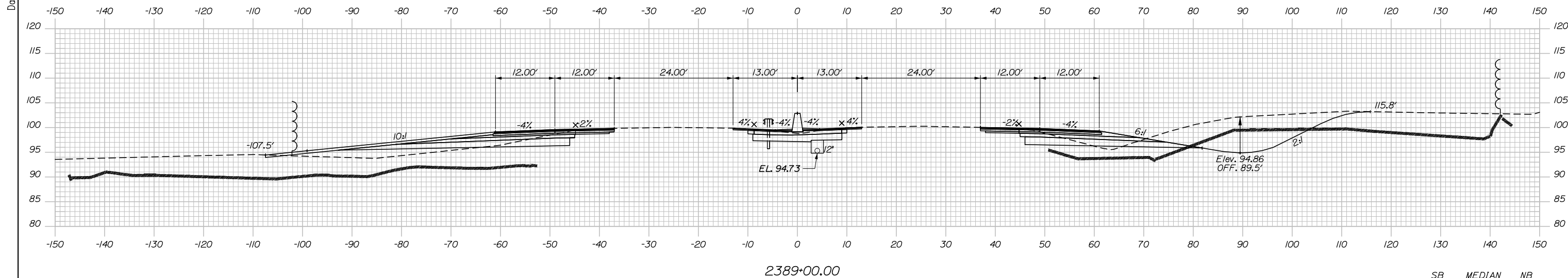
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

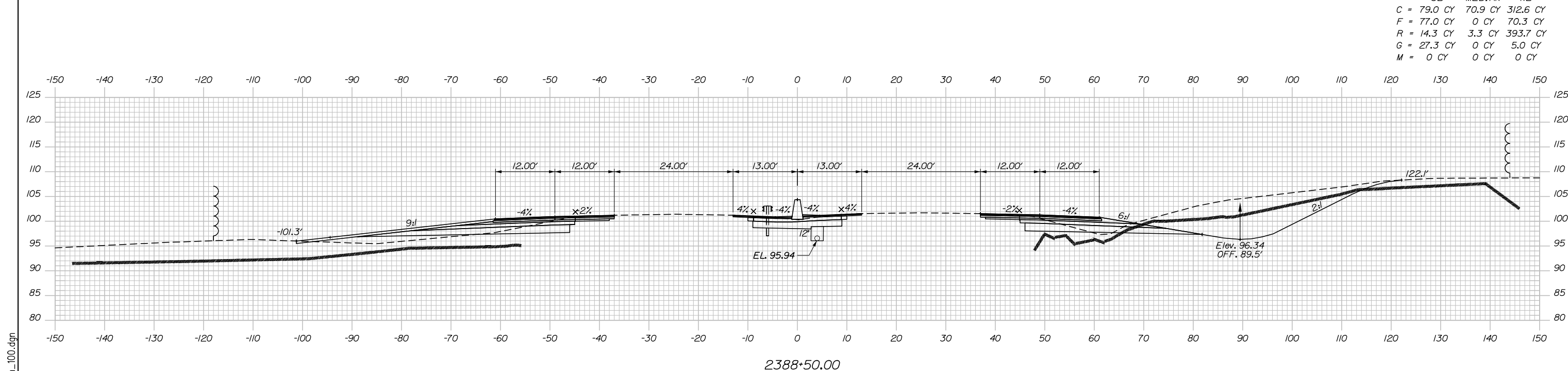
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. k 2387+50 TO STA. k 2388+00
SHEET NUMBER:
CONTRACT: 2021.08
2210F 376

Filename: PAW2_Cross_Section_99.dgn

Date: 9/8/2021

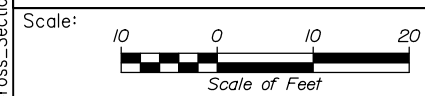


	SB	MEDIAN	NB
C	61.8 CY	71.5 CY	291.0 CY
F	68.5 CY	0 CY	84.2 CY
R	0 CY	1.5 CY	257.3 CY
G	32.5 CY	0 CY	6.2 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	79.0 CY	70.9 CY	312.6 CY
F	77.0 CY	0 CY	70.3 CY
R	14.3 CY	3.3 CY	393.7 CY
G	27.3 CY	0 CY	5.0 CY
M	0 CY	0 CY	0 CY

Filename: PAW2_Cross_Section_100.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

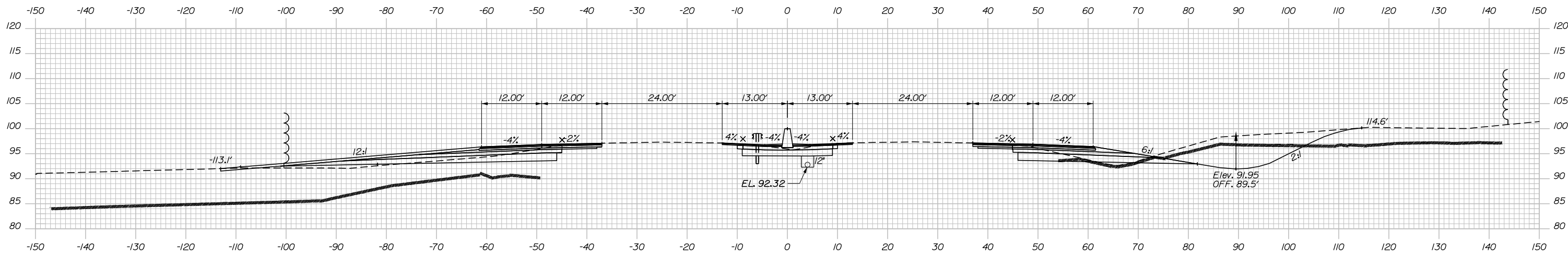
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2388+50 TO STA. k 2389+00

SHEET NUMBER:
 CONTRACT: 2021.08
 222 OF 376

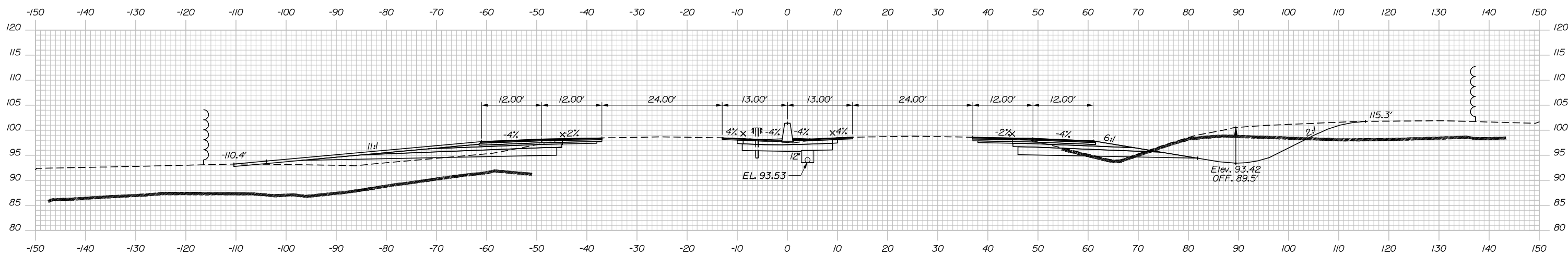
Date: 9/8/2021

	SB	MEDIAN	NB
C	72.6 CY	78.4 CY	159.8 CY
F	40.2 CY	6.9 CY	89.5 CY
R	0 CY	1.5 CY	296.8 CY
G	35.1 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

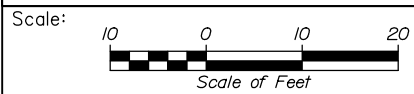


2390+00.00

	SB	MEDIAN	NB
C	61.9 CY	79.3 CY	239.1 CY
F	68.4 CY	6.9 CY	90.4 CY
R	0 CY	1.5 CY	246.6 CY
G	35.6 CY	0 CY	3.5 CY
M	0 CY	0 CY	0 CY



2389+50.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2389+50 TO STA. k 2390+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

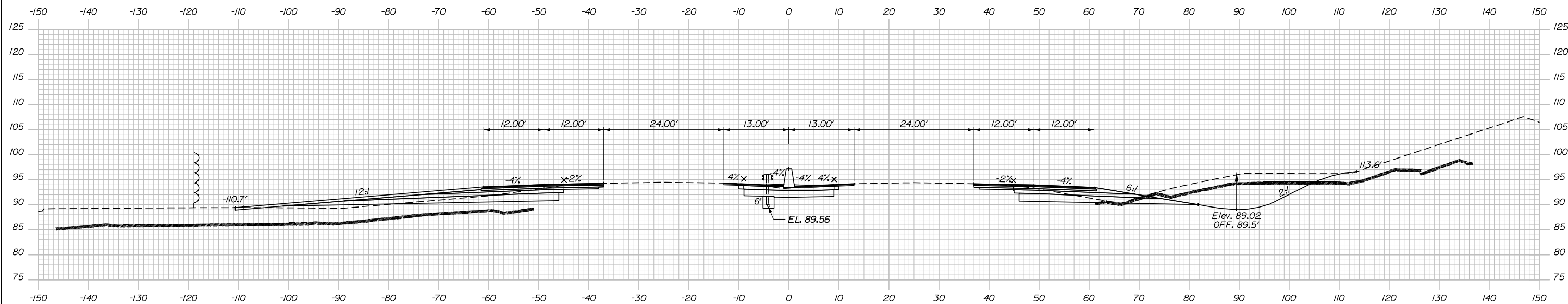
CONTRACT: 2021.08

223 OF 376

Filename: PAW2_Cross_Section_101.dgn

Date: 9/8/2021

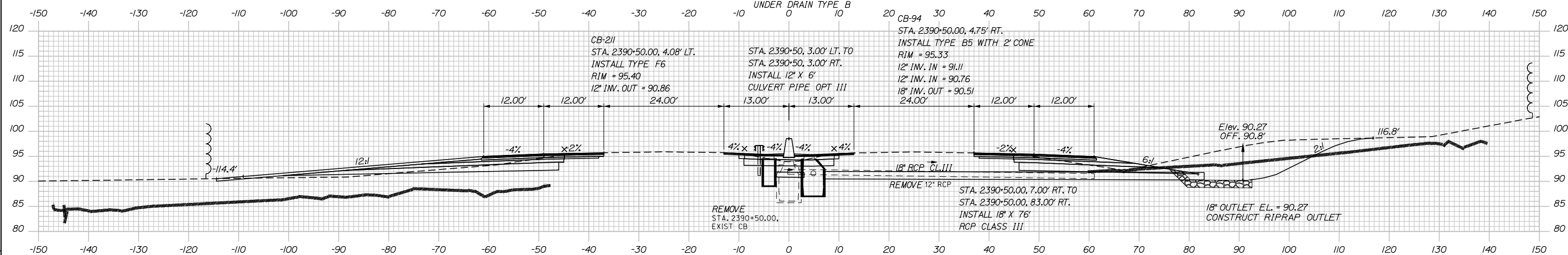
	SB	MEDIAN	NB
C	130.0 CY	91.8 CY	219.4 CY
F	70.2 CY	27.3 CY	39.7 CY
R	8.6 CY	27.2 CY	277.5 CY
G	31.3 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2391+00.00

	SB	MEDIAN	NB
C	85.7 CY	64.4 CY	213.7 CY
F	24.3 CY	0 CY	41.3 CY
R	0 CY	22.9 CY	268.3 CY
G	32.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

STA. 2390+55.00, 4.08' LT. TO
 STA. 2393+49.00, 4.08' LT.
 INSTALL 6' X 29'
 UNDER DRAIN TYPE B



2390+50.00

CB-211
 STA. 2390+50.00, 4.08' LT.
 INSTALL TYPE F6
 RIM = 95.40
 12' INV. OUT = 90.86

STA. 2390+50, 3.00' LT. TO
 STA. 2390+50, 3.00' RT.
 INSTALL 12' X 6'
 CULVERT PIPE OPT III

CB-94
 STA. 2390+50.00, 4.75' RT.
 INSTALL TYPE B5 WITH 2' CONE
 RIM = 95.33
 12' INV. IN = 91.11
 12' INV. IN = 90.76
 18' INV. OUT = 90.51
 24.00'

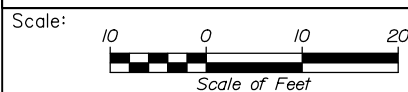
REMOVE
 STA. 2390+50.00,
 EXIST CB

18' RCP CL III
 REMOVE 12' RCP

STA. 2390+50.00, 7.00' RT. TO
 STA. 2390+50.00, 83.00' RT.
 INSTALL 18' X 76'
 RCP CLASS III

Elev. 90.27
 OFF. 90.8'

18' OUTLET EL. = 90.27
 CONSTRUCT RIPRAP OUTLET



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2390+50 TO STA. k 2391+00

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

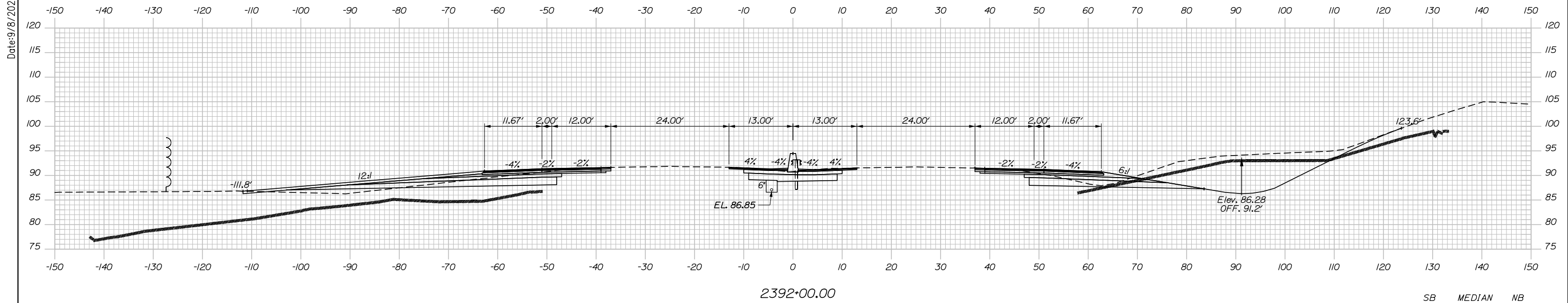
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

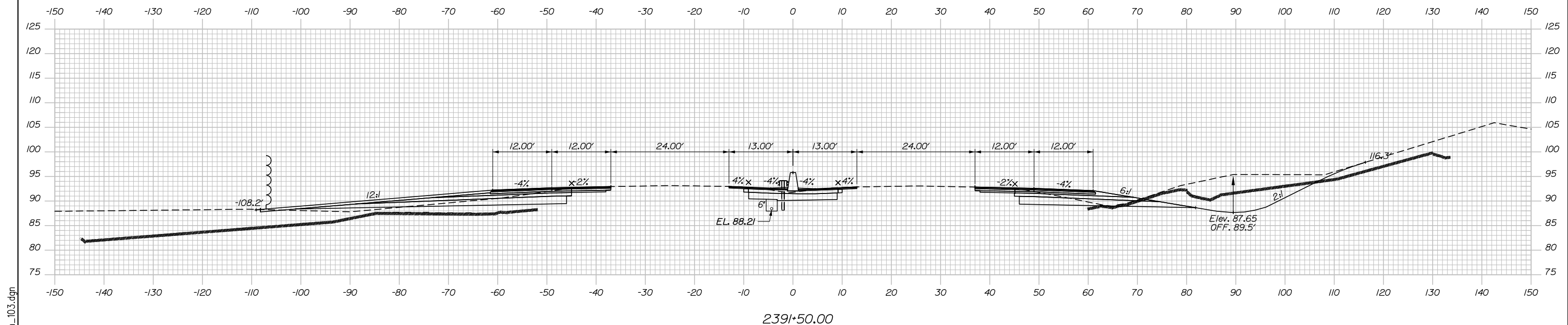
224 OF 376

Filename: PAW2_Cross_Section_102.dgn

Date: 9/8/2021

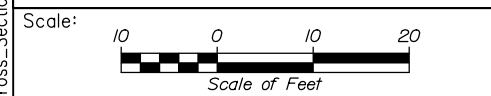


	SB	MEDIAN	NB
C	159.0 CY	101.9 CY	208.9 CY
F	122.5 CY	29.2 CY	82.5 CY
R	39.1 CY	5.7 CY	328.5 CY
G	31.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	178.7 CY	124.5 CY	199.1 CY
F	146.7 CY	56.5 CY	73.6 CY
R	41.1 CY	9.4 CY	272.7 CY
G	31.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Filename: PAW2_Cross_Section_103.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

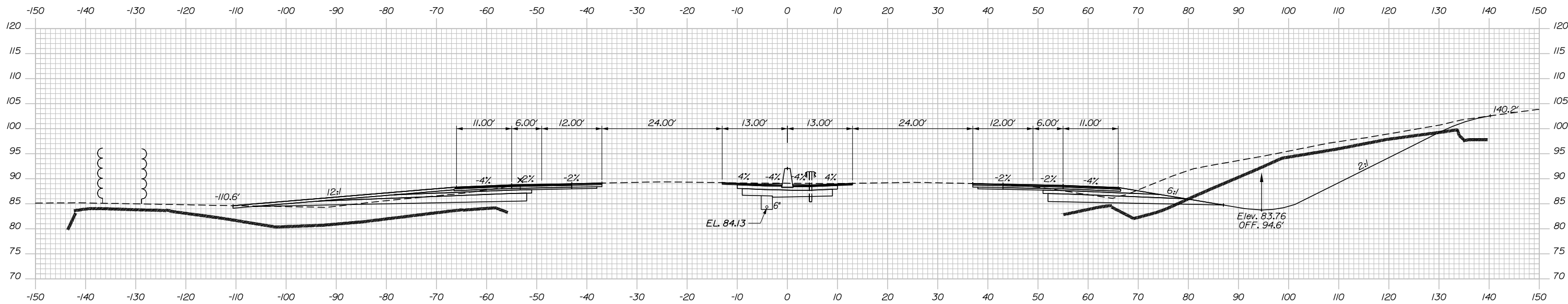
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2391+50 TO STA. k 2392+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 225 OF 376

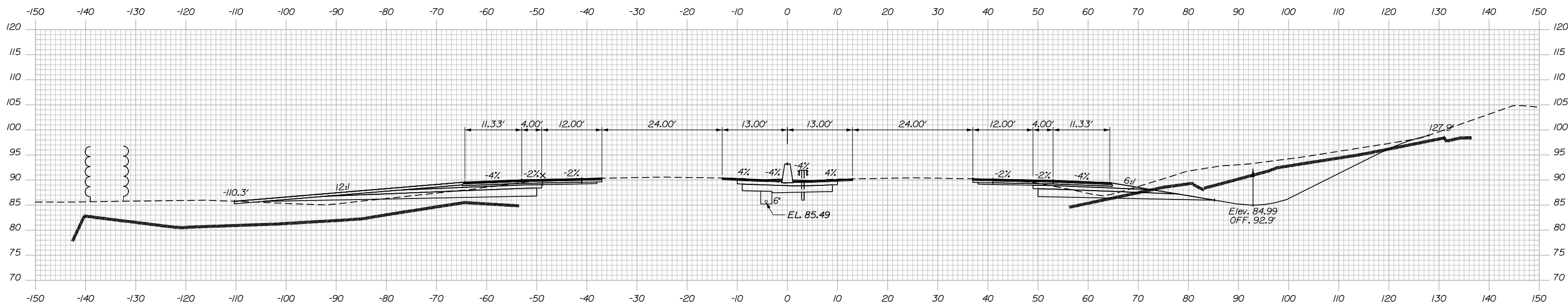
Date: 9/8/2021

	SB	MEDIAN	NB
C	173.8 CY	86.2 CY	318.5 CY
F	97.9 CY	0 CY	86.2 CY
R	24.9 CY	0 CY	506.6 CY
G	27.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



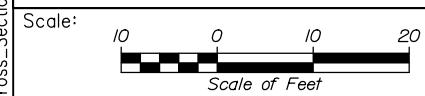
2393+00.00

	SB	MEDIAN	NB
C	147.4 CY	79.2 CY	225.4 CY
F	89.6 CY	0 CY	90.8 CY
R	21.7 CY	0.6 CY	410.4 CY
G	30.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2392+50.00

Filename: PAW2_Cross_Section_104.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

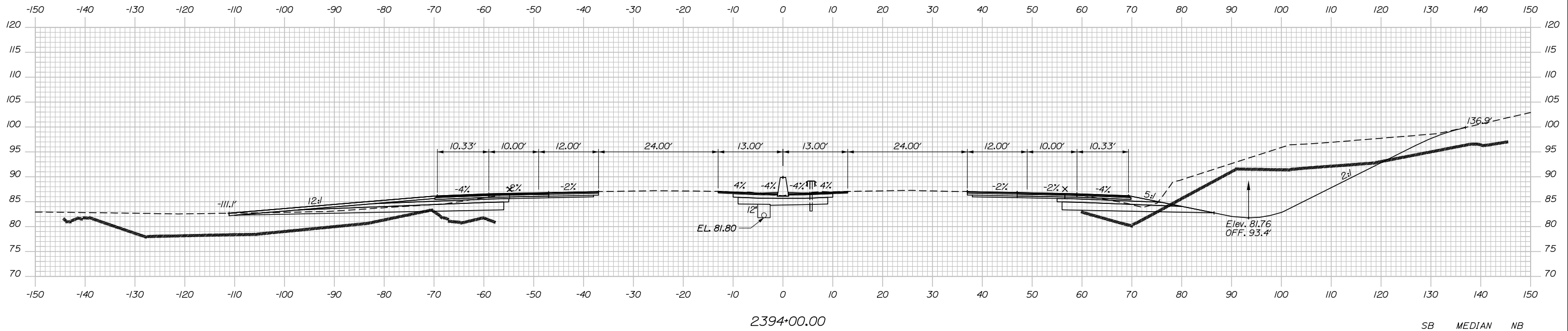
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

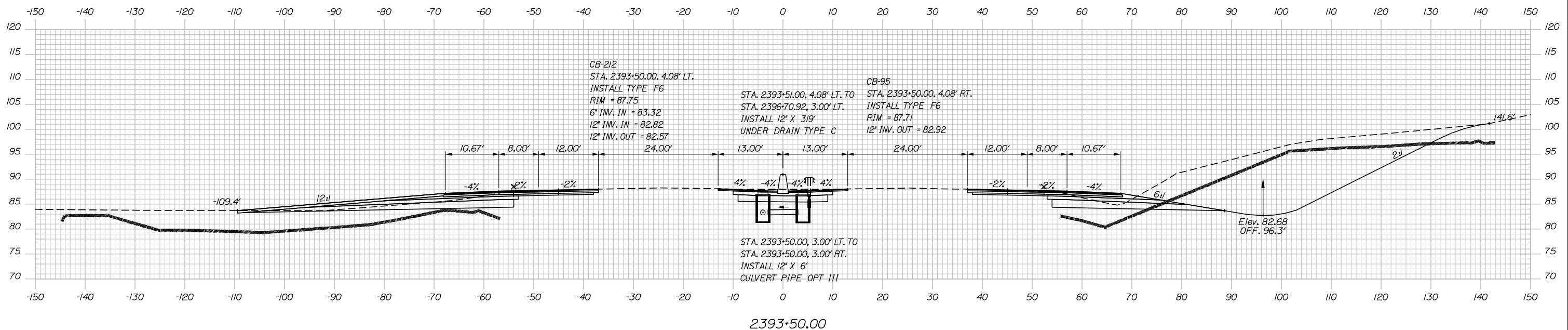
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2392+50 TO STA. k 2393+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 226 OF 376

	SB	MEDIAN	NB
C	179.1 CY	112.4 CY	448.2 CY
F	81.7 CY	28.7 CY	74.2 CY
R	37.8 CY	18.2 CY	624.2 CY
G	7.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

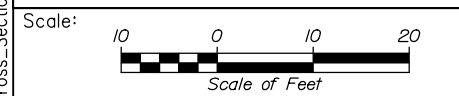
Date: 9/8/2021



	SB	MEDIAN	NB
C	172.8 CY	92.8 CY	392.6 CY
F	70.7 CY	0 CY	74.4 CY
R	22.7 CY	14.2 CY	657.7 CY
G	17.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Filename: PAW2_Cross_Section_105.dgn



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

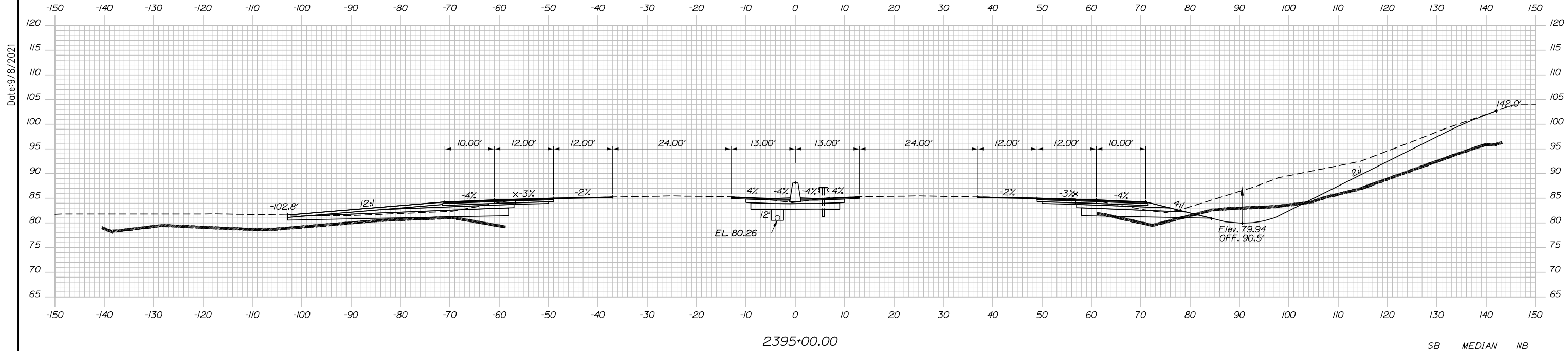
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. k 2393+50 TO STA. k 2394+00

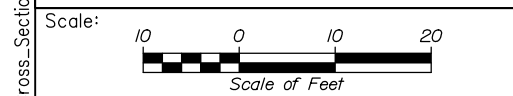
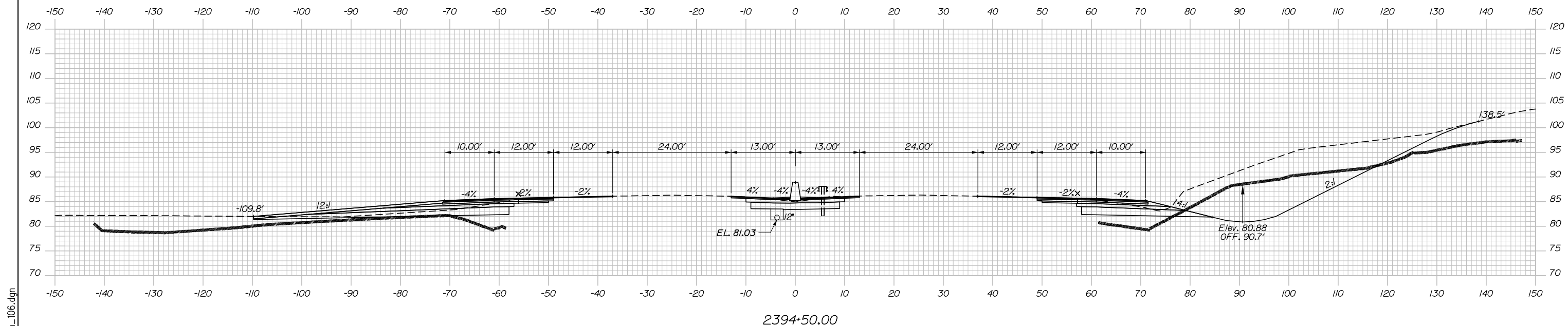
SHEET NUMBER:
227 OF 376

CONTRACT: 2021.08

	SB	MEDIAN	NB
C	144.6 CY	93.5 CY	483.3 CY
F	97.0 CY	21.0 CY	85.6 CY
R	60.7 CY	2.6 CY	276.0 CY
G	2.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	160.5 CY	103.9 CY	505.7 CY
F	98.4 CY	28.7 CY	84.6 CY
R	57.2 CY	4.1 CY	459.6 CY
G	4.8 CY	0 CY	0 CY
M	0 CY	0 CY	76.2 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

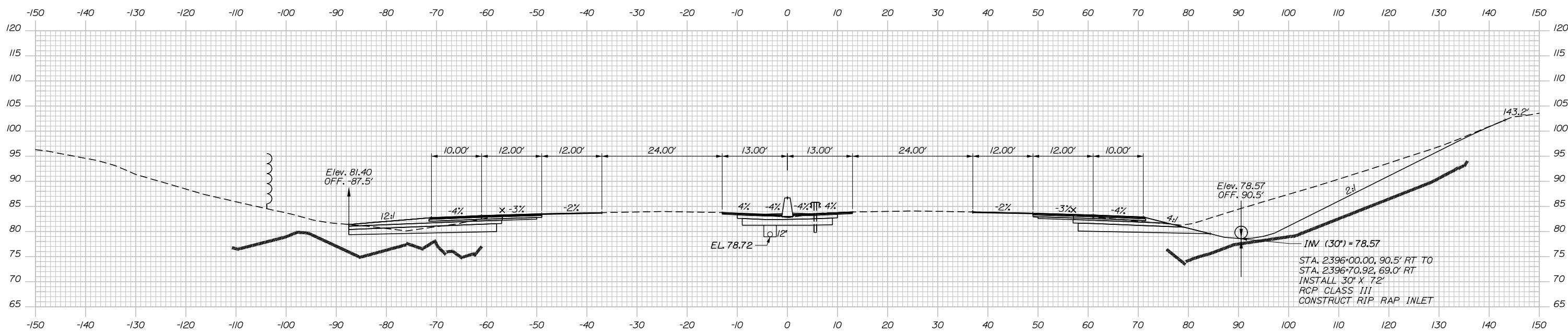
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2394+50 TO STA. k 2395+00
 SHEET NUMBER:
 CONTRACT:2021.08
 228 OF 376

Filename: PAW2_Cross_Section_106.dgn

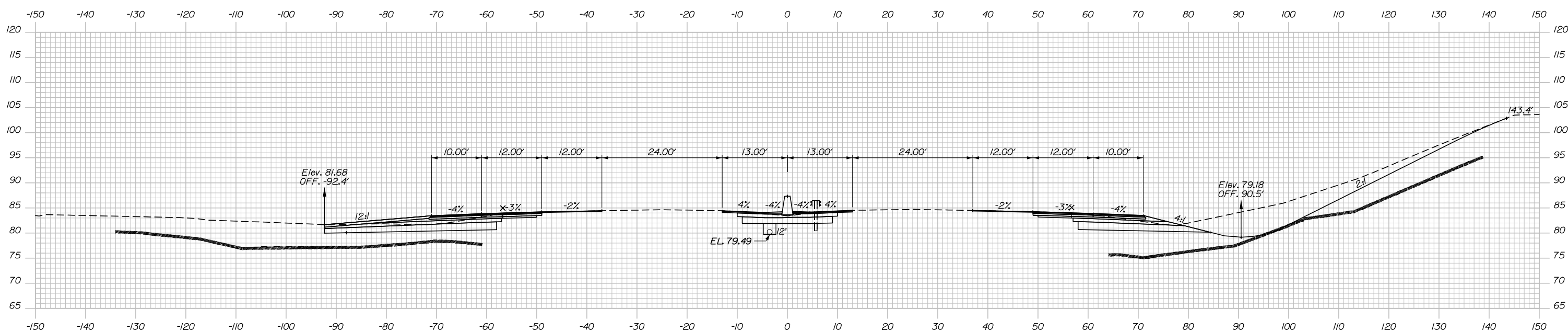
Date: 9/8/2021

	SB	MEDIAN	NB
C	134.3 CY	74.4 CY	453.3 CY
F	19.2 CY	0 CY	0 CY
R	1.7 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



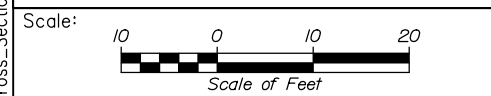
2396+00.00

	SB	MEDIAN	NB
C	161.2 CY	93.2 CY	424.6 CY
F	66.1 CY	21.0 CY	42.0 CY
R	29.4 CY	2.6 CY	76.2 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2395+50.00

Filename: PAW2_Cross_Section_107.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
 TEL (207) 774-5155
 FAX (207) 228-0909

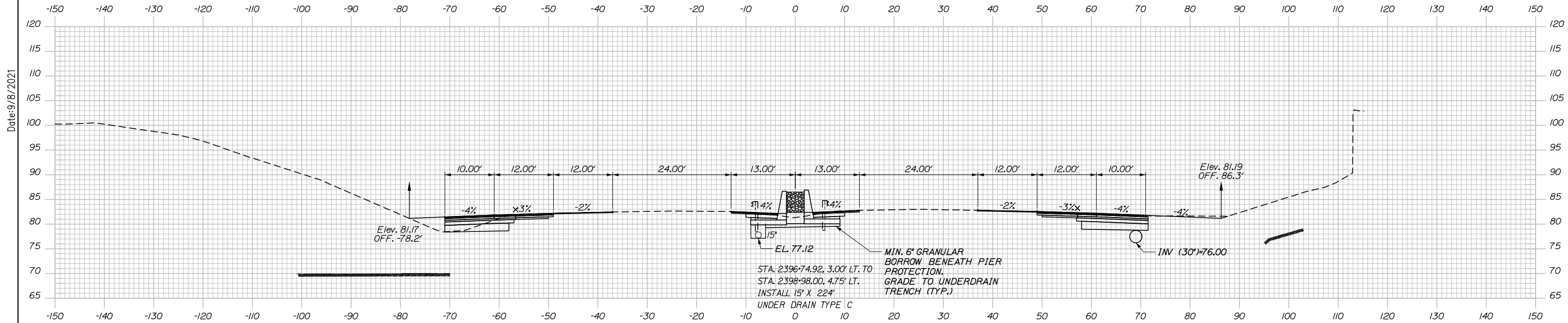
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

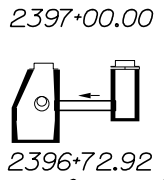
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. k 2395+50 TO STA. k 2396+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 229 OF 376

	SB	MEDIAN	NB
C	= 53.7 CY	71.0 CY	94.2 CY
F	= 13.1 CY	0 CY	4.6 CY
R	= 0 CY	0 CY	0 CY
G	= 2.0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



STA. 2396+72.92, 3.00' LT. TO
STA. 2396+72.92, 5.00' RT.
INSTALL 12' X 8'
CULVERT PIPE OPT III

CB-213
STA. 2396+72.92, 3.00' LT.
INSTALL TYPE B5 WITH 2' CONE
RIM = 82.42
12' INV. IN = 77.59
12' INV. IN = 77.59
15' INV. OUT = 77.34



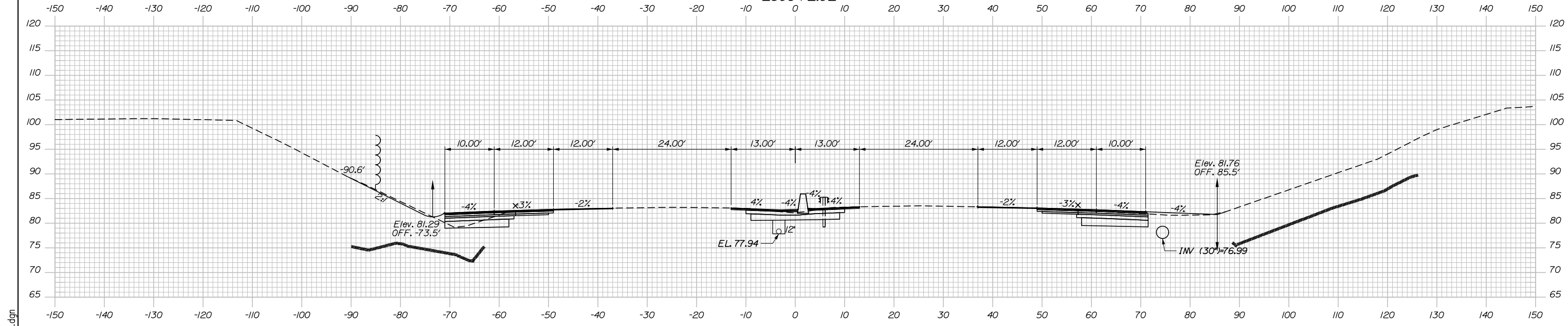
CB-96
STA. 2396+72.92, 5.50' RT.
INSTALL TYPE F6
RIM = 82.72
12' INV. OUT = 77.69

STA. 2396+74.92, 69.00' RT TO
STA. 2398+48.00, 69.00' RT
INSTALL 30' X 17'
RCP CLASS III

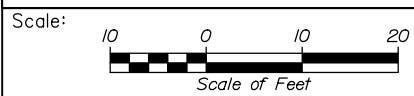


CB-307
STA. 2396+72.92, 69.00' RT.
INSTALL 60' TYPE BI WITH FLAT TOP
RIM = 82.13
30' INV. IN = 76.33
30' INV. OUT = 76.08

	SB	MEDIAN	NB
C	= 84.6 CY	73.6 CY	295.2 CY
F	= 6.9 CY	0 CY	4.6 CY
R	= 0.6 CY	0 CY	0 CY
G	= 0.7 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



Filename: PAW2_Cross_Section_108.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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82 Running Hill Road, Suite 201
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

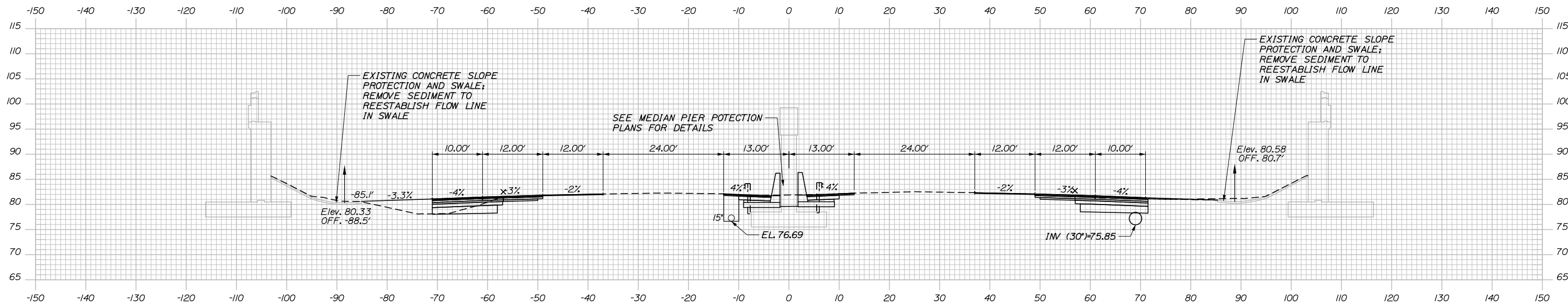
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. k 2396+50 TO STA. k 2397+00
SHEET NUMBER:

CONTRACT:2021.08

230 OF 376

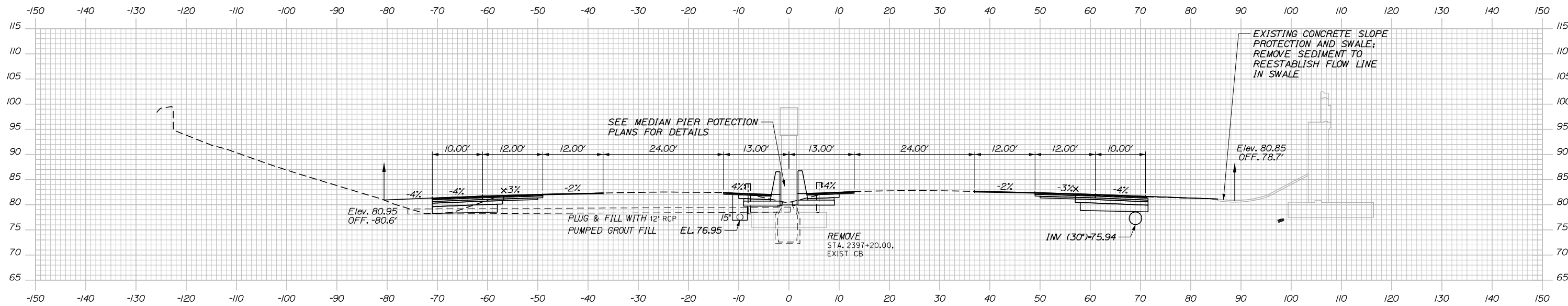
Date: 9/8/2021

	SB	MEDIAN	NB
C	27.0 CY	42.0 CY	55.4 CY
F	23.8 CY	0 CY	0.9 CY
R	0 CY	0 CY	0 CY
G	2.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



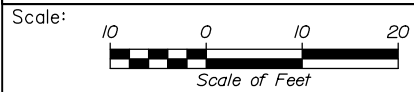
2397+50.00

	SB	MEDIAN	NB
C	18.9 CY	25.2 CY	38.9 CY
F	11.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.3 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2397+20.00

Filename: PAW2_Cross_Section_109.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. 1 2397+20 TO STA. 1 2397+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

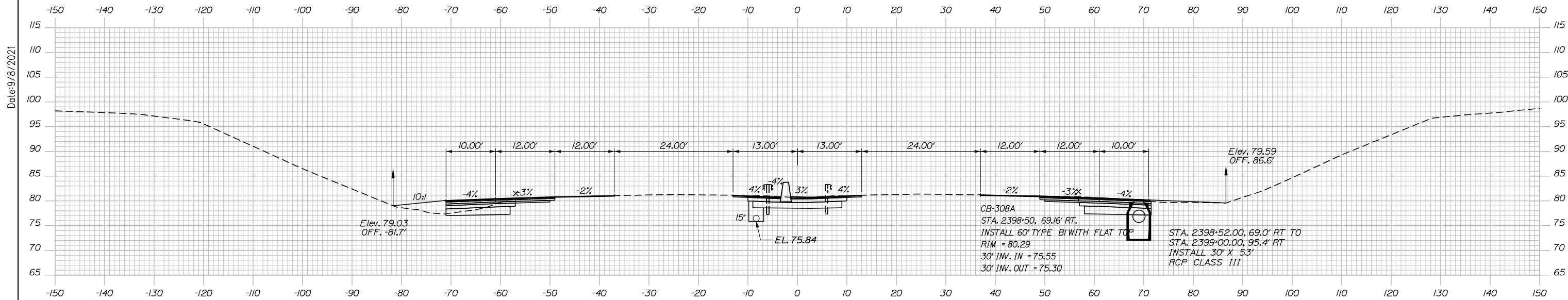
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

231 OF 376

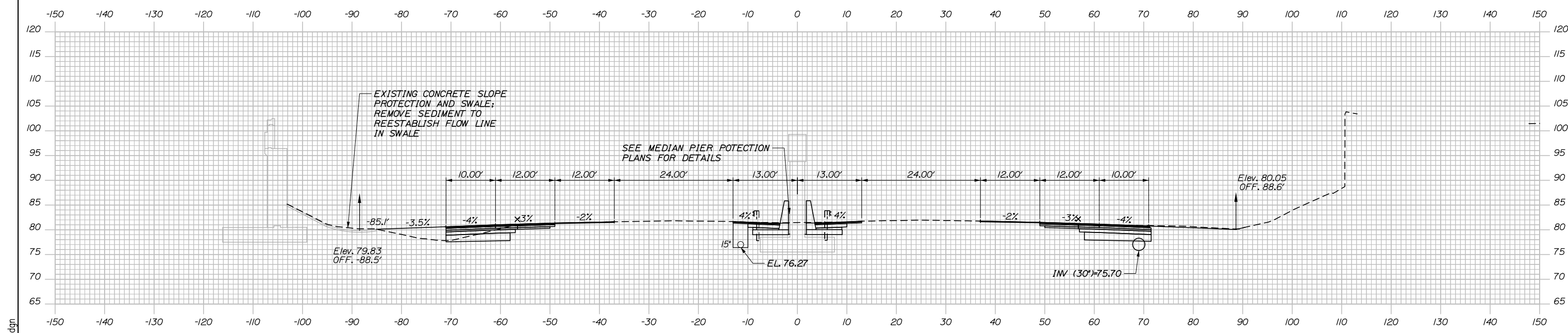
SHEET NUMBER:

	SB	MEDIAN	NB
C	53.5 CY	85.5 CY	100.8 CY
F	39.4 CY	0 CY	3.1 CY
R	0 CY	0 CY	0 CY
G	0.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2398+50.00

	SB	MEDIAN	NB
C	49.3 CY	84.8 CY	96.3 CY
F	44.4 CY	0 CY	1.5 CY
R	0 CY	0 CY	0 CY
G	1.9 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2398+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

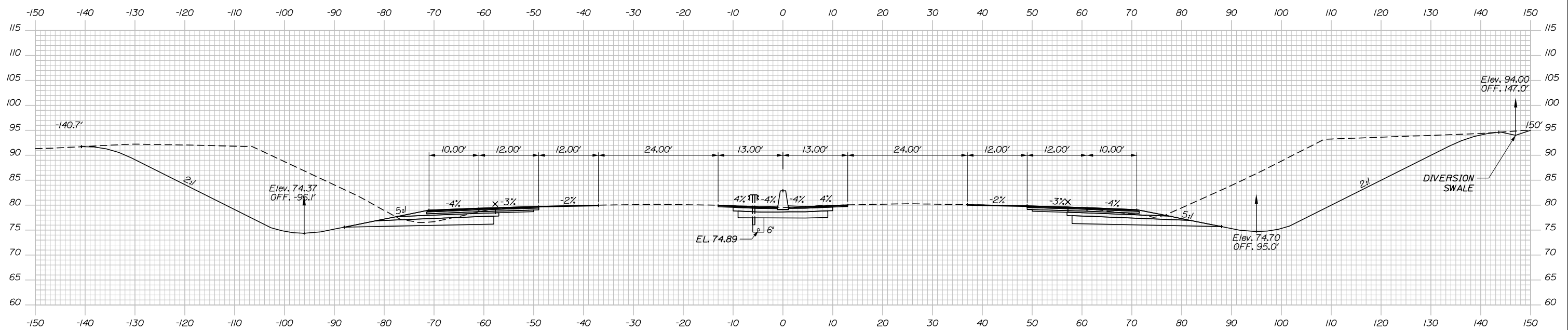
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2398+00 TO STA. | 2398+50
 SHEET NUMBER:
 CONTRACT:2021.08
 232 OF 376

Filename: PAW2_Cross_Section_110.dgn

Date: 9/8/2021

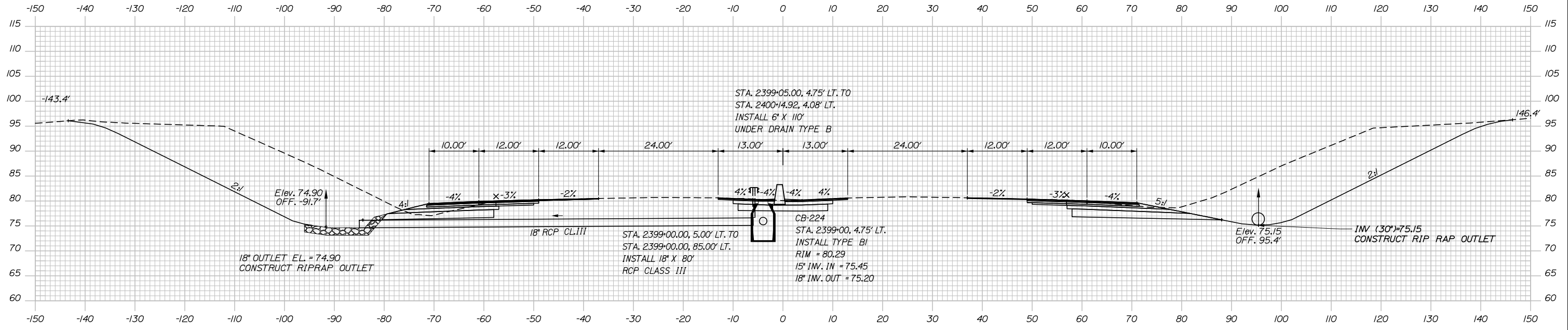
	SB	MEDIAN	NB
C	= 998.6 CY	82.5 CY	1013.0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY

Date: 9/8/2021



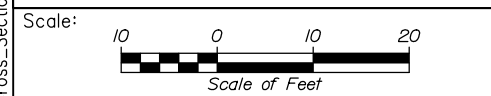
2399+50.00

	SB	MEDIAN	NB
C	= 531.1 CY	83.6 CY	534.7 CY
F	= 18.3 CY	0 CY	3.1 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



2399+00.00

Filename: PAW2_Cross_Section_111.dgn



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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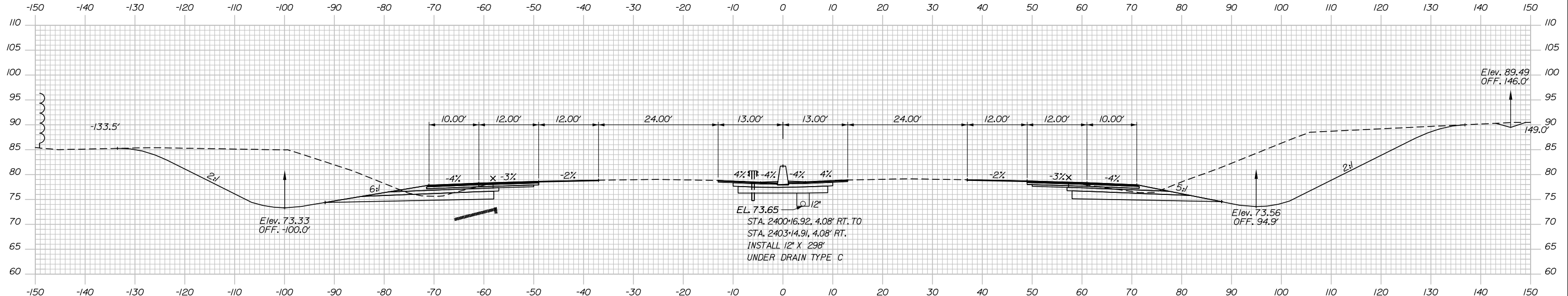
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. | 2399+00 TO STA. | 2399+50
SHEET NUMBER:
CONTRACT: 2021.08

	SB	MEDIAN	NB
C	840.1 CY	75.1 CY	889.0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

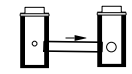
Date: 9/8/2021



STA. 2400+5.92, 3.00' LT. TO
STA. 2400+5.92, 3.00' RT.
INSTALL 12" X 6"
CULVERT PIPE OPT III

CB-214
STA. 2400+5.92, 4.08' LT.
INSTALL TYPE F6
RIM = 78.85
6" INV. IN = 74.63
12" INV. OUT = 74.13

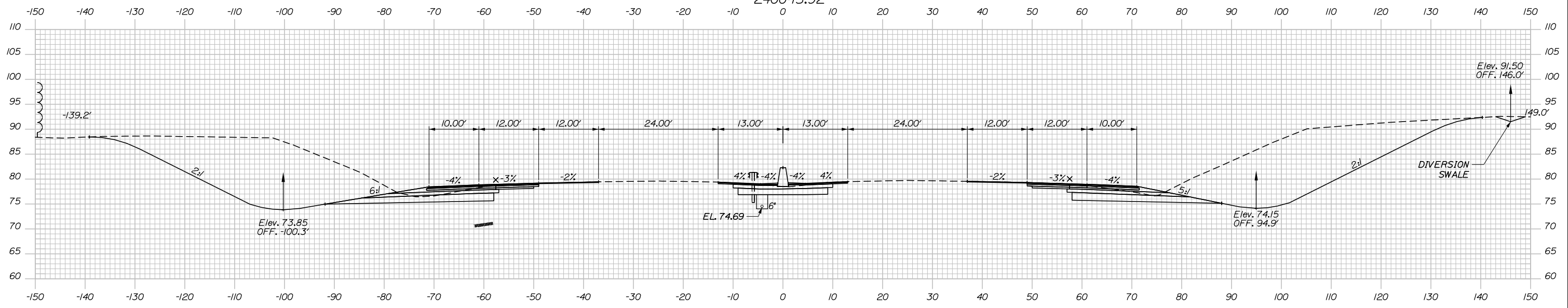
2400+50.00



2400+15.92

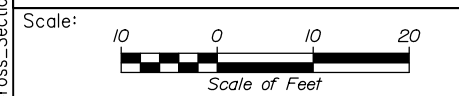
CB-97
STA. 2400+5.92, 4.08' RT.
INSTALL TYPE F6
RIM = 78.96
12" INV. IN = 74.03
12" INV. OUT = 73.78

	SB	MEDIAN	NB
C	840.1 CY	78.1 CY	1000.3 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2400+00.00

Filename: PAW2_Cross_Section_112.dgn



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

By	Date	By	Date
Designed JS	09\21	Checked PJS	09\21
Drawn GW	09\21	In Charge of TRC	09\21

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
TEL (207) 774-5155
FAX (207) 228-0909

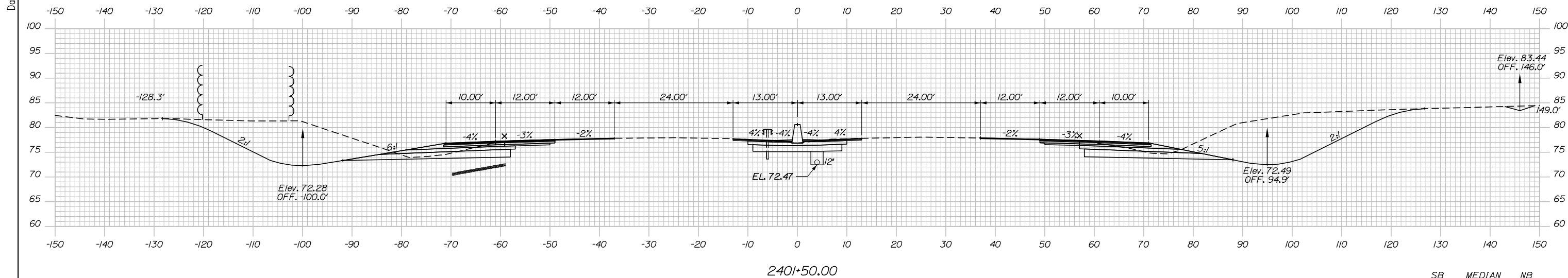


**THE GOLD STAR
MEMORIAL HIGHWAY**

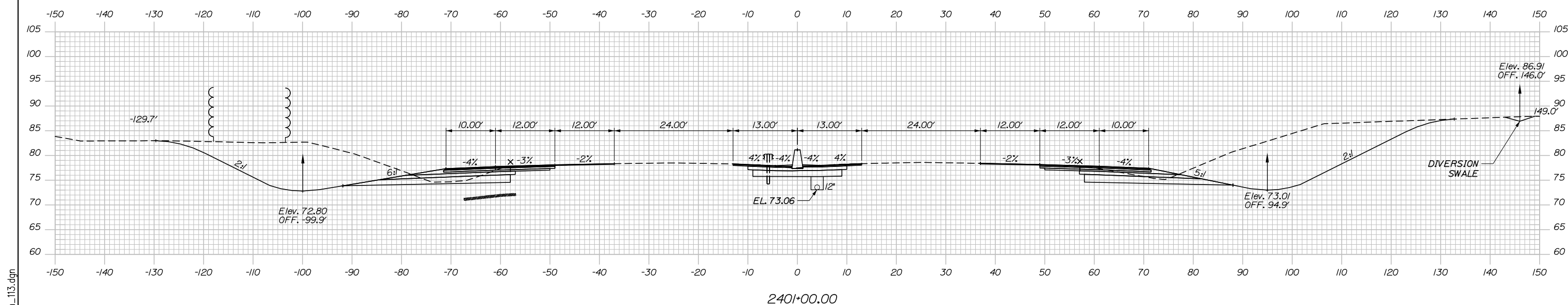
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. 1 2400+00 TO STA. 1 2400+50
SHEET NUMBER:
CONTRACT: 2021.08

Date: 9/8/2021

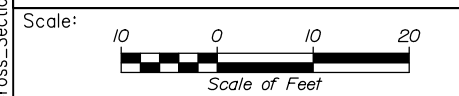


	SB	MEDIAN	NB
C	541.4 CY	77.6 CY	639.1 CY
F	10.5 CY	0 CY	0 CY
R	2.2 CY	0 CY	0 CY
G	1.1 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	658.5 CY	77.3 CY	768.1 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Filename: PAW2_Cross_Section_113.dgn



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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South Portland, ME 04106
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FAX (207) 228-0909

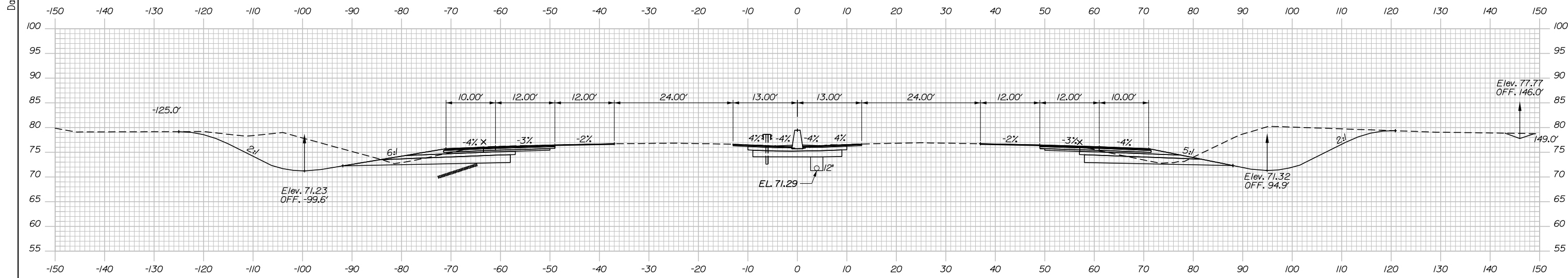


**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

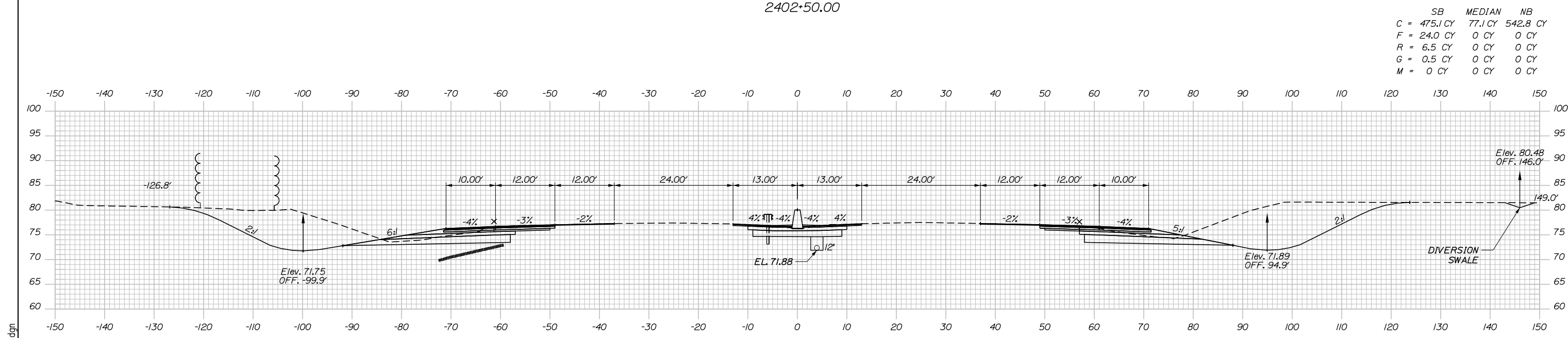
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. | 2401+00 TO STA. | 2401+50
SHEET NUMBER:
CONTRACT: 2021.08

Date: 9/8/2021



	SB	MEDIAN	NB
C	424.9 CY	77.4 CY	468.3 CY
F	29.6 CY	0 CY	0 CY
R	11.5 CY	0 CY	0 CY
G	0.4 CY	0 CY	0.9 CY
M	0 CY	0 CY	0 CY

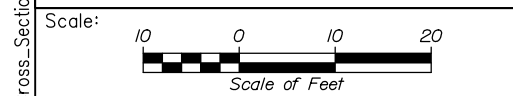
2402+50.00



	SB	MEDIAN	NB
C	475.1 CY	77.1 CY	542.8 CY
F	24.0 CY	0 CY	0 CY
R	6.5 CY	0 CY	0 CY
G	0.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2402+00.00

STATION 2402+05.00
APPROX. ELEV. 53.0
NR PROBE



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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82 Running Hill Road, Suite 201
South Portland, ME 04106
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

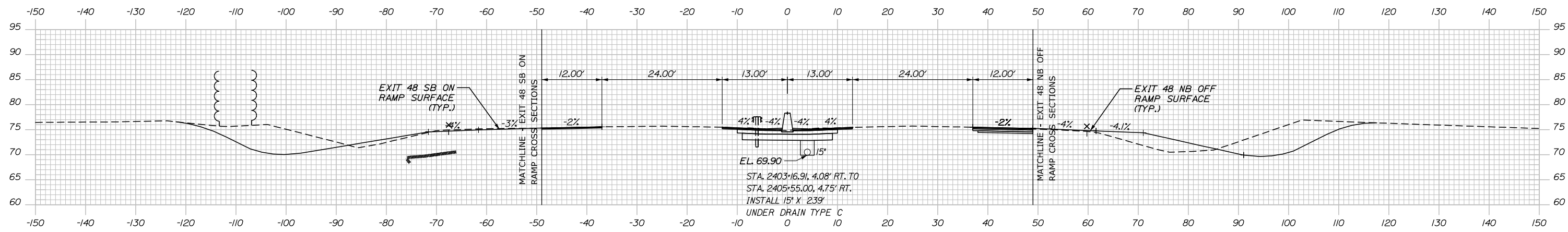
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. | 2402+00 TO STA. | 2402+50
SHEET NUMBER:
CONTRACT: 2021.08
236 OF 376

Filename: PAW2_Cross_Section_114.dgn

Date: 9/8/2021

Filename: PAW2_Cross_Section_115.dgn

	SB	MEDIAN	NB
C	5.6 CY	82.4 CY	179.8 CY
F	0 CY	0 CY	0.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.3 CY
M	0 CY	0 CY	0 CY

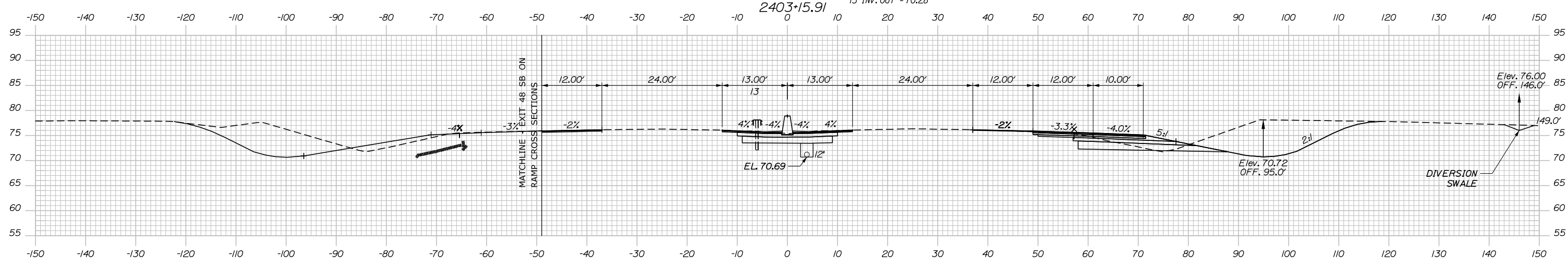


STA. 2403+15.91, 3.00' LT. TO
 STA. 2403+15.91, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

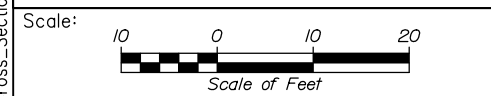
CB-215
 STA. 2403+15.91, 4.08' LT.
 INSTALL TYPE F6
 RIM = 75.57
 12" INV. OUT = 70.63

2403+50.00
 CB-98
 STA. 2403+15.91, 4.08' RT.
 INSTALL TYPE F6
 RIM = 75.56
 12" INV. IN = 70.53
 12" INV. IN = 70.53
 15" INV. OUT = 70.28

	SB	MEDIAN	NB
C	205.0 CY	80.0 CY	382.3 CY
F	16.1 CY	0 CY	0.3 CY
R	7.2 CY	0 CY	0 CY
G	0.4 CY	0 CY	3.2 CY
M	0 CY	0 CY	0 CY



2403+00.00



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 South Portland, ME 04106
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MAINE TURNPIKE

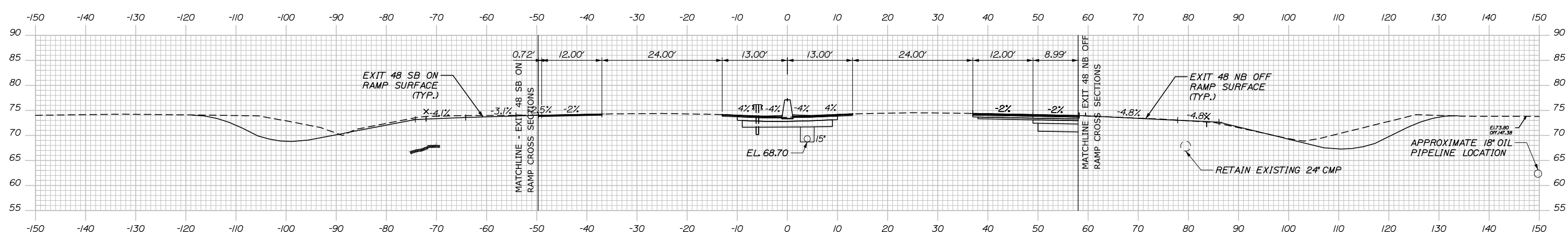
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2403+00 TO STA. | 2403+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 237 OF 376

Date: 9/8/2021

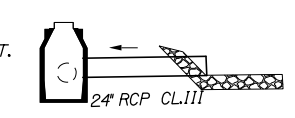
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C	5.7 CY	82.0 CY	48.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	5.6 CY	83.4 CY	22.3 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2404+50.00

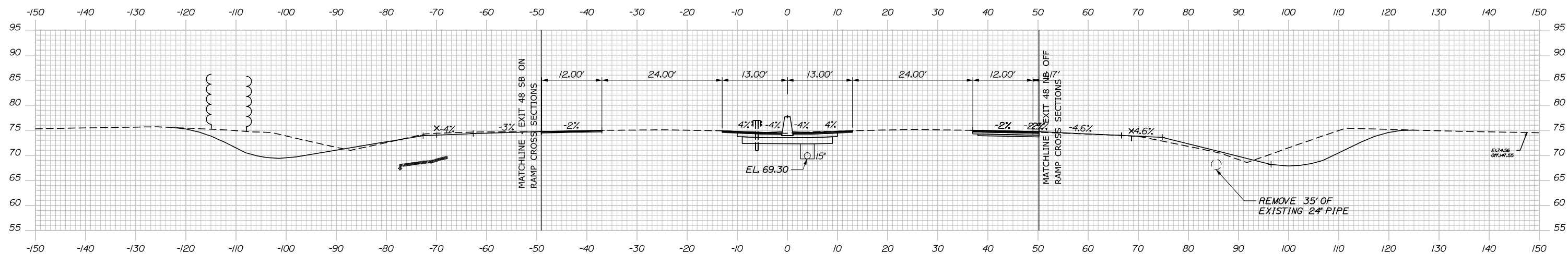
CB-306
 STA. 2404+36.00, 82.00' RT.
 INSTALL TYPE BI
 RIM = 73.09
 24" INV. IN = 67.15
 24" INV. OUT (EXIST.) = 66.91



STA. 2404+36.00, 84.00' RT. TO
 STA. 2404+36.00, 96.00' RT.
 INSTALL 24" X 12"
 RCP CLASS III
 CONSTRUCT RIP RAP INLET

24" INLET EL. = 67.25
 CONSTRUCT RIPRAP INLET

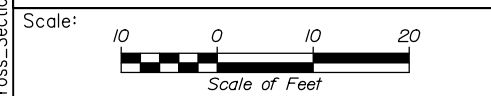
1 2404+36.00



2404+00.00

REMOVE 35' OF
 EXISTING 24" PIPE

Filename: PAW2_Cross_Section_116.dgn



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. 1 2404+00 TO STA. 1 2404+50
 SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

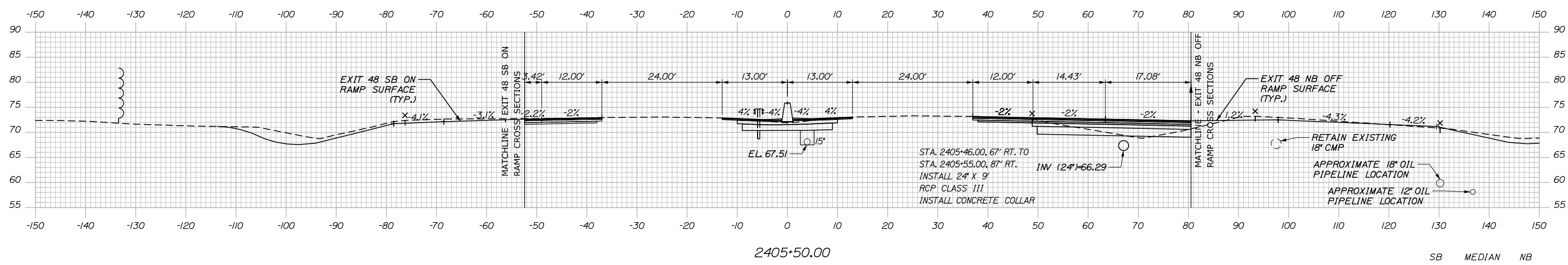
CONTRACT: 2021.08

238 OF 376

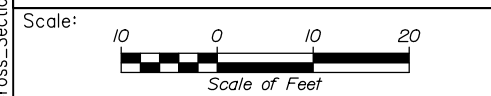
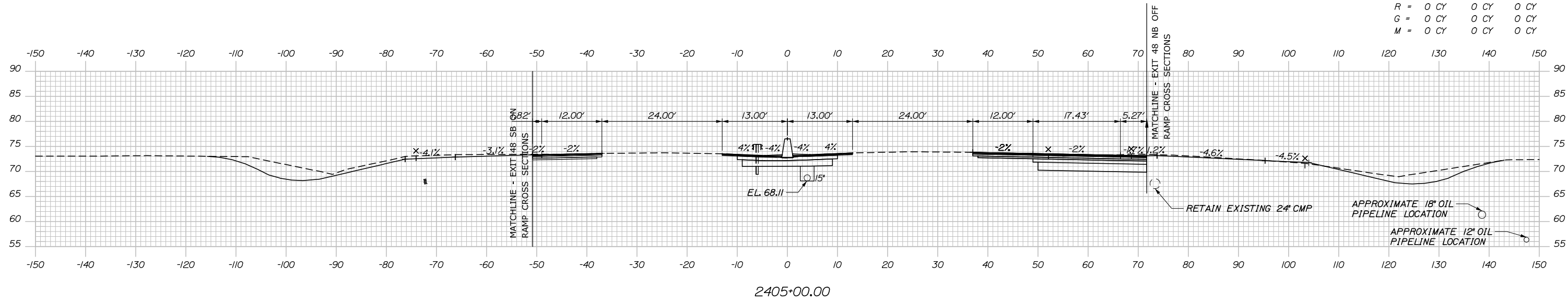
Date: 9/8/2021

Filename: PAW2_Cross_Section_117.dgn

	SB	MEDIAN	NB
C	28.0 CY	73.5 CY	117.2 CY
F	0 CY	0 CY	0.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	3.6 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	15.8 CY	77.9 CY	113.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

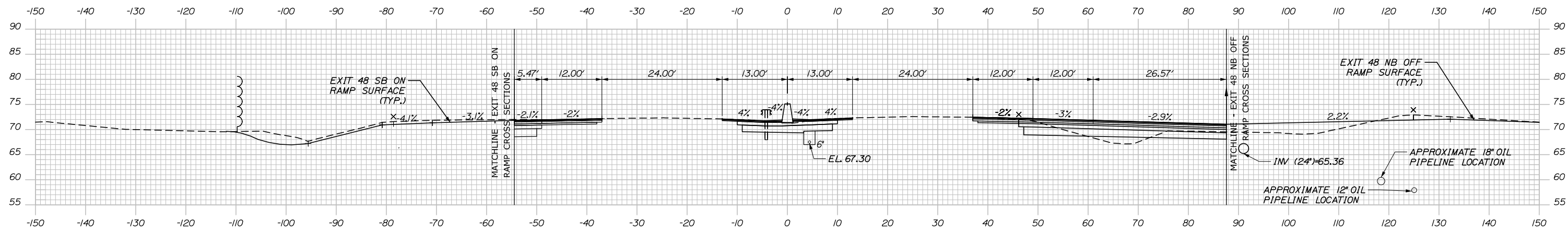
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2405+00 TO STA. | 2405+50

SHEET NUMBER:
 CONTRACT: 2021.08
 239 OF 376

Date: 9/8/2021

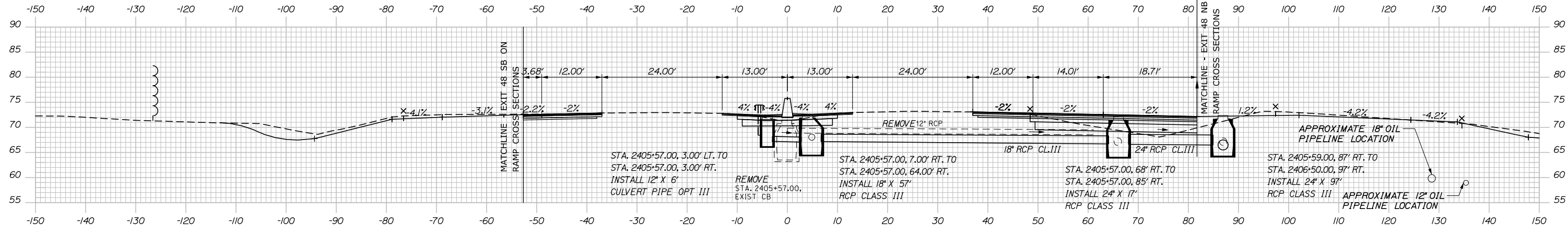
Filename: PAW2_Cross_Section_118.dgn

	SB	MEDIAN	NB
C	= 35.8 CY	59.8 CY	10.6 CY
F	= 0 CY	0 CY	0.8 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	1.4 CY
M	= 0 CY	0 CY	0 CY



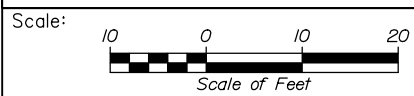
Station	Description	SB	MEDIAN	NB
2405+57.00, 4.75' RT.	INSTALL TYPE B5 WITH 2' CONE			
2405+57.00, 66.00' RT.	INSTALL 60" TYPE BI			
2405+57.00, 86.00' RT.	INSTALL 60" TYPE BI			

	SB	MEDIAN	NB
C	= 4.2 CY	9.4 CY	10.6 CY
F	= 0 CY	0 CY	0.8 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	1.4 CY
M	= 0 CY	0 CY	0 CY



Station	Description	SB	MEDIAN	NB
2405+57.00, 3.00' LT. TO 2405+57.00, 3.00' RT.	INSTALL 12" X 6" CULVERT PIPE OPT III			
2405+57.00, 7.00' RT. TO 2405+57.00, 64.00' RT.	INSTALL 18" X 57" RCP CLASS III			
2405+57.00, 68' RT. TO 2405+57.00, 85' RT.	INSTALL 24" X 17" RCP CLASS III			

	SB	MEDIAN	NB
C	= 4.2 CY	9.4 CY	10.6 CY
F	= 0 CY	0 CY	0.8 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	1.4 CY
M	= 0 CY	0 CY	0 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

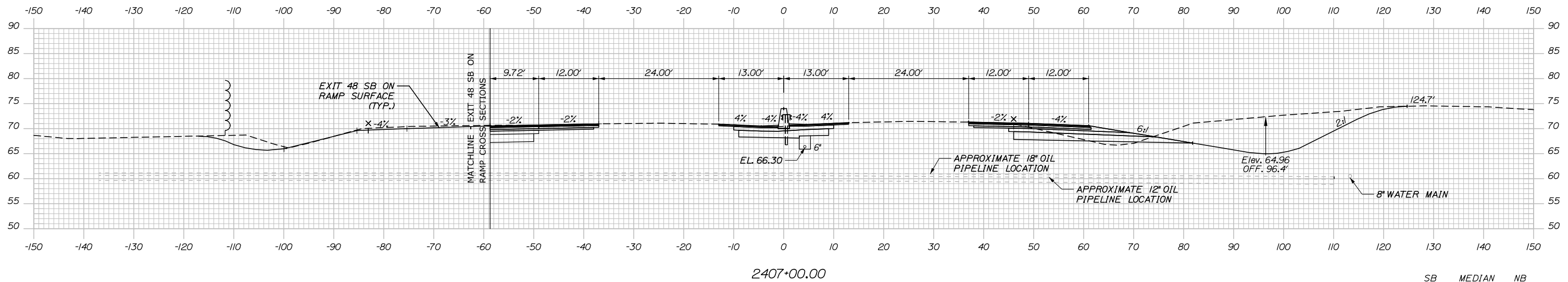
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2405+57 TO STA. | 2406+00

SHEET NUMBER:
 240 OF 376

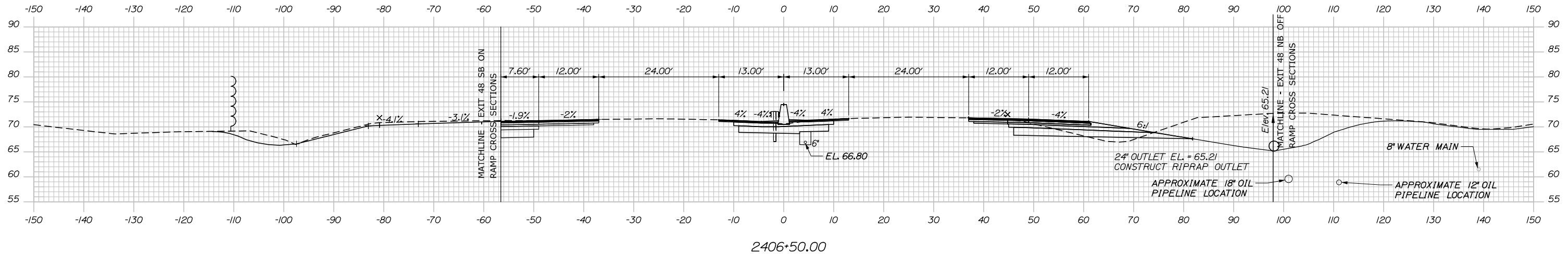
CONTRACT: 2021.08

Date: 9/8/2021

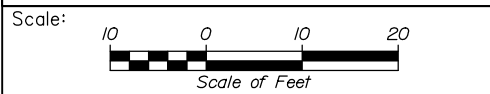
	SB	MEDIAN	NB
C	72.6 CY	77.3 CY	445.7 CY
F	0 CY	0 CY	9.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	10.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	59.5 CY	75.9 CY	263.4 CY
F	0 CY	0 CY	16.0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	12.2 CY
M	0 CY	0 CY	0 CY



Filename: PAW2_Cross_Section_119.dgn



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Designed	JS	09\21	Checked	PJS 09\21
Drawn	GW	09\21	In Charge of	TRC 09\21

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MAINE TURNPIKE

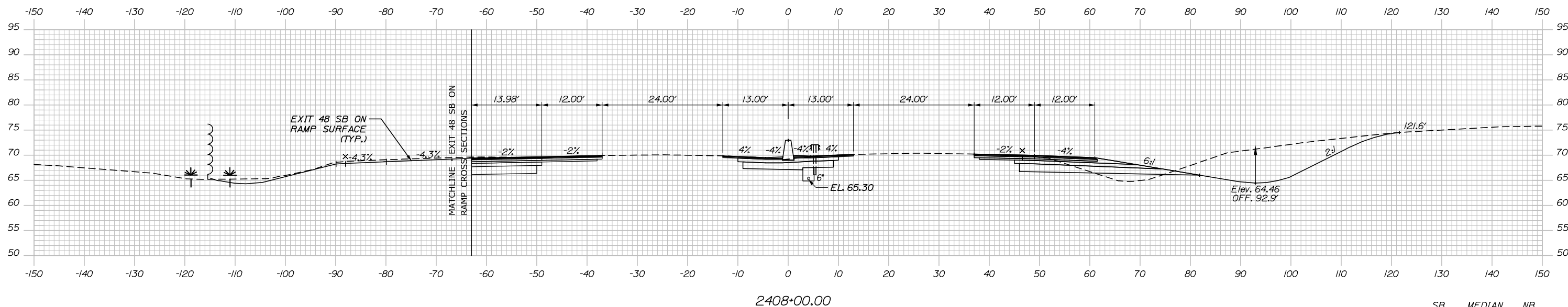
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

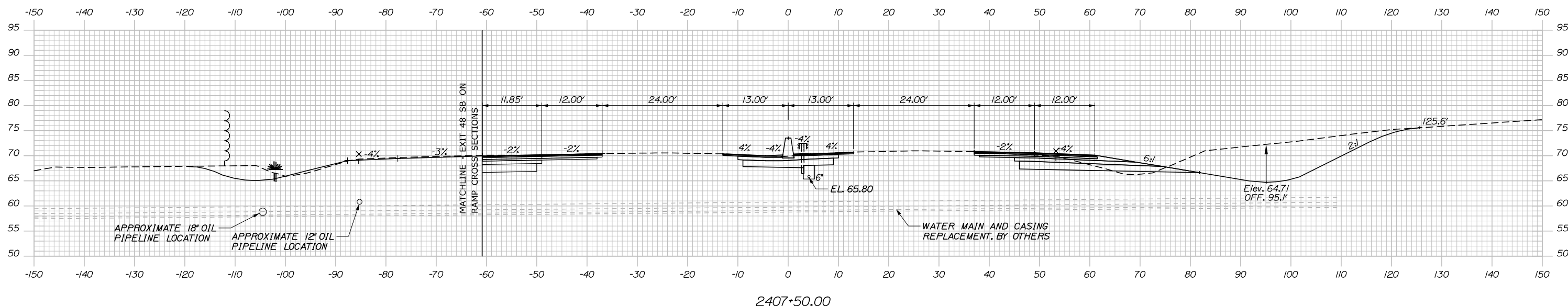
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. 1 2406+50 TO STA. 1 2407+00
SHEET NUMBER:
CONTRACT: 2021.08
241 OF 376

Date: 9/9/2021

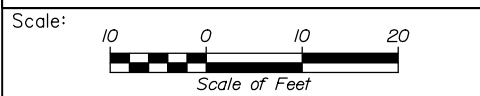
	SB	MEDIAN	NB
C	99.1 CY	77.7 CY	434.0 CY
F	0 CY	0 CY	16.1 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	11.8 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	85.9 CY	78.5 CY	469.3 CY
F	0 CY	0 CY	7.5 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	9.9 CY
M	0 CY	0 CY	0 CY



Filename: PAW2_Cross_Section_120.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

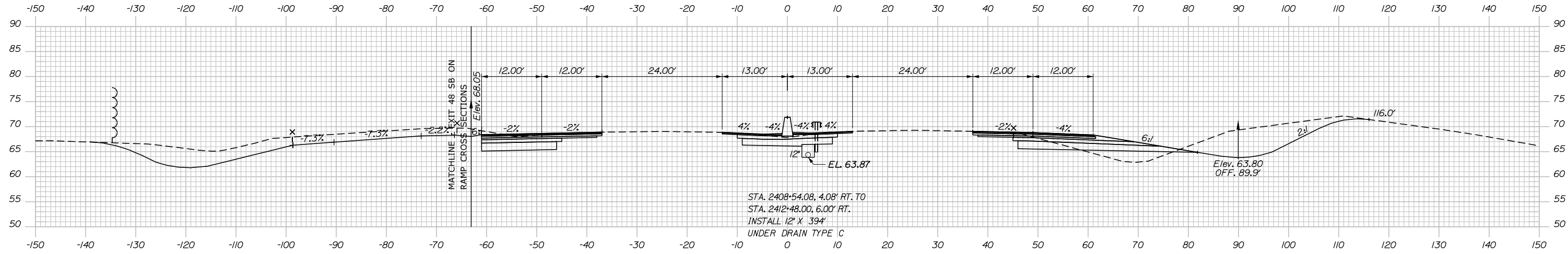
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. | 2407+50 TO STA. | 2408+00

SHEET NUMBER:
CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Cross_Section_121.dgn

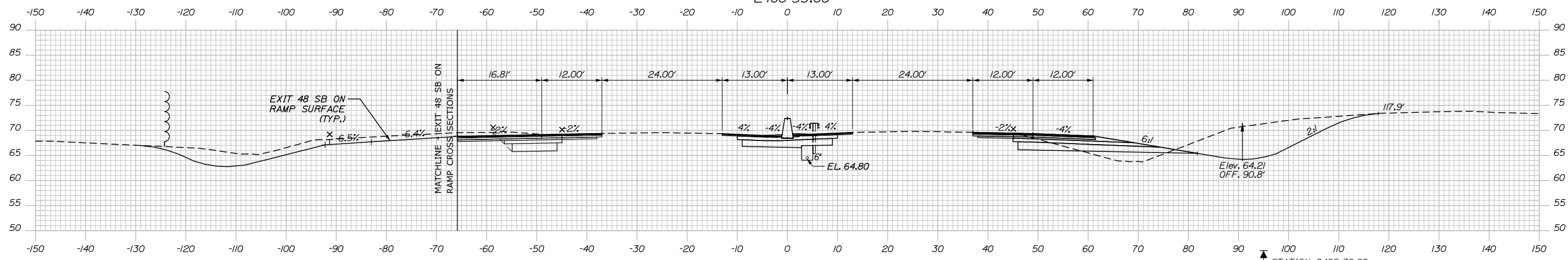
	SB	MEDIAN	NB
C	107.0 CY	72.8 CY	296.1 CY
F	0 CY	0 CY	41.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	18.0 CY
M	0 CY	0 CY	0 CY



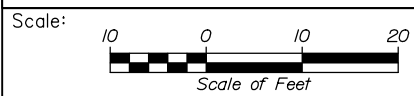
STA. 2408+53.08, 3.00' LT. TO
 STA. 2408+53.08, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

2409+00.00 CB-100
 STA. 2408+53.08, 4.08' RT.
 INSTALL TYPE F6
 RIM = 69.23
 6" INV. IN = 64.80
 12" INV. IN = 64.30
 12" INV. OUT = 64.30

	SB	MEDIAN	NB
C	108.3 CY	75.5 CY	355.0 CY
F	0 CY	0 CY	31.8 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	15.8 CY
M	0 CY	0 CY	0 CY



STATION 2408+30.00
 NR APPROX. ELEV. 46.0
 PROBE



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

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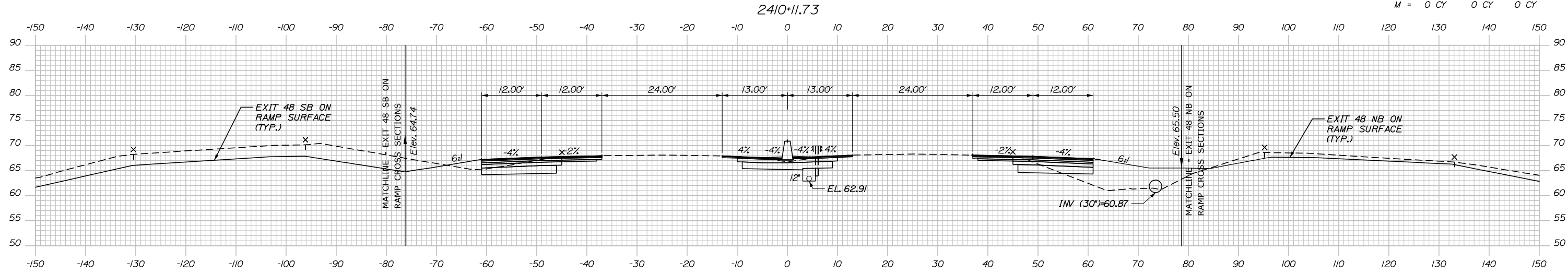
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2408+50 TO STA. | 2409+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 243 OF 376

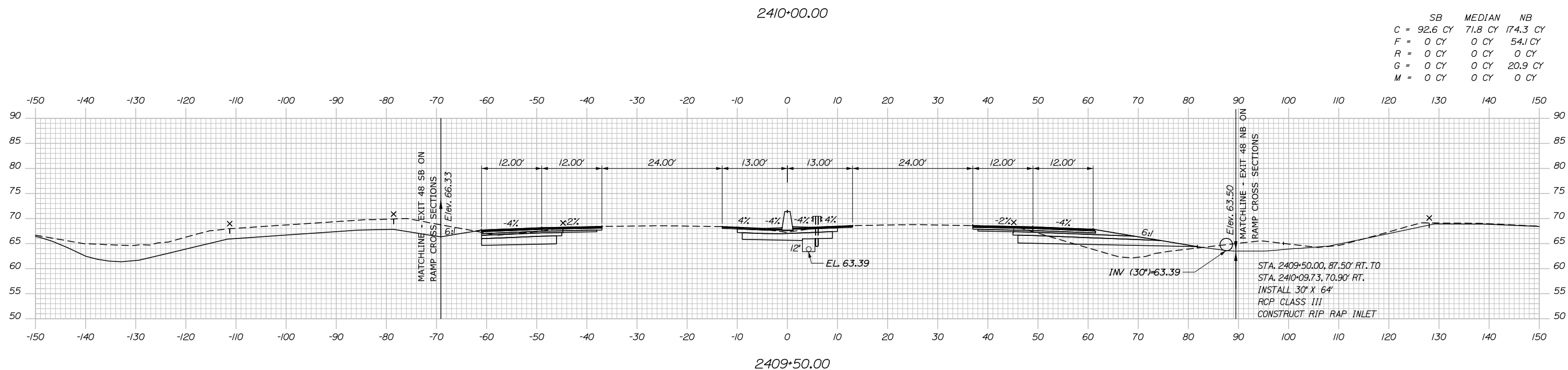
Date: 9/8/2021

CB-SC9
 STA. 2410+11.73, 70.90' RT.
 INSTALL 60" TYPE BI WITH 2' CONE
 RIM = 65.50
 30" INV. IN = 60.45
 30" INV. OUT = 60.20 (EXIST)

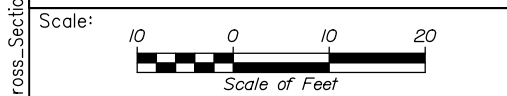
	SB	MEDIAN	NB
C	= 78.4 CY	71.9 CY	62.3 CY
F	= 0 CY	0 CY	37.7 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	11.7 CY
M	= 0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	= 92.6 CY	71.8 CY	174.3 CY
F	= 0 CY	0 CY	54.1 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	20.9 CY
M	= 0 CY	0 CY	0 CY



STA. 2409+50.00, 87.50' RT. TO
 STA. 2410+09.73, 70.90' RT.
 INSTALL 30" X 64"
 RCP CLASS III
 CONSTRUCT RIP RAP INLET



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

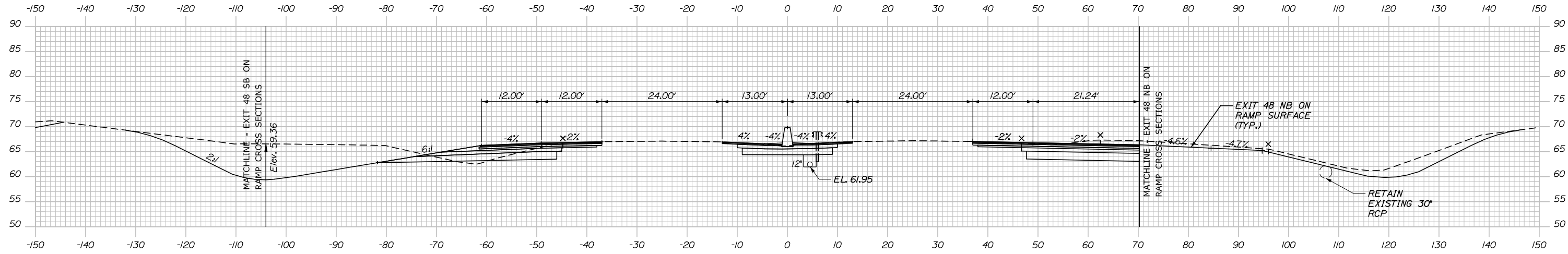
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2409+50 TO STA. | 2410+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 244 OF 376

Filename: PAW2_Cross_Section_122.dgn

Date: 9/8/2021

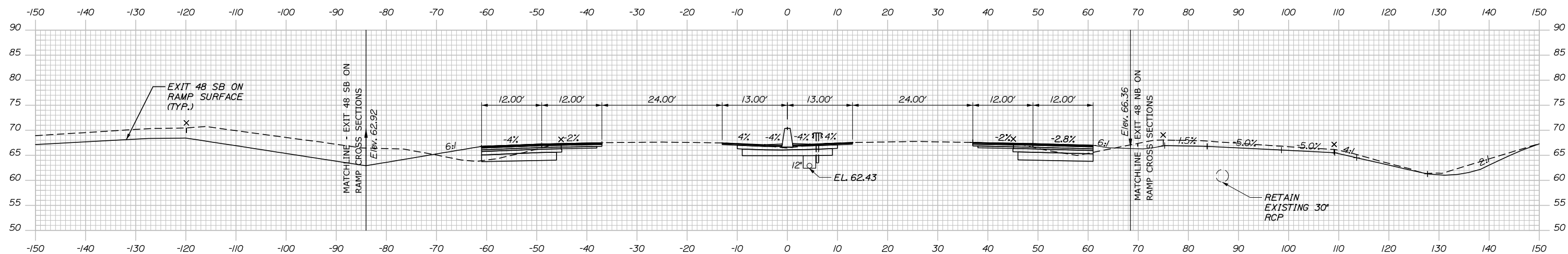
Filename: PAW2_Cross_Section_123.dgn

	SB	MEDIAN	NB
C	287.4 CY	76.2 CY	120.4 CY
F	2.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	4.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

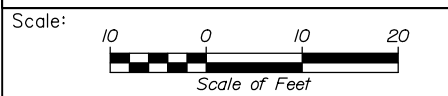


2411+00.00

	SB	MEDIAN	NB
C	66.8 CY	73.3 CY	56.5 CY
F	0 CY	0 CY	6.4 CY
R	0 CY	0 CY	0 CY
G	0.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2410+50.00



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

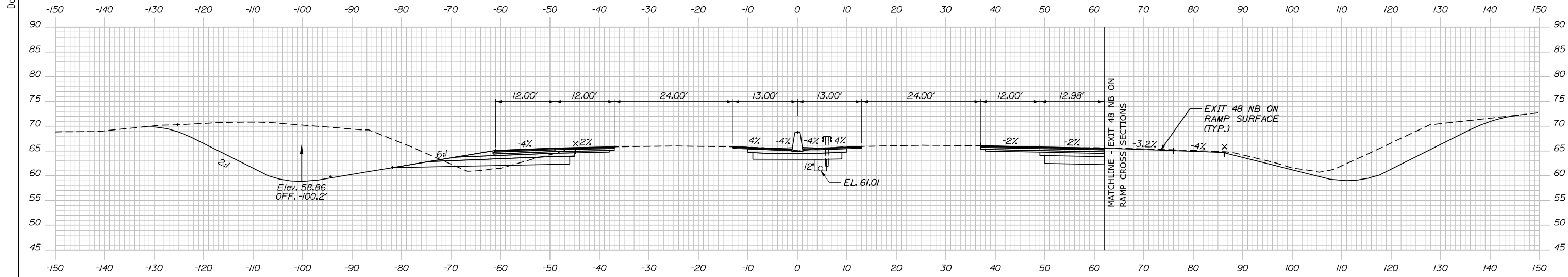
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2410+50 TO STA. | 2411+00

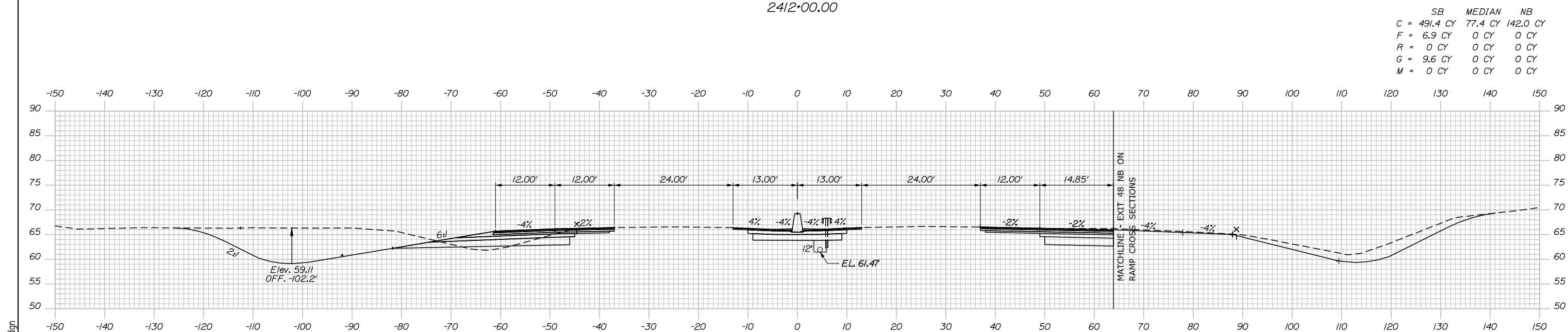
SHEET NUMBER:
 CONTRACT: 2021.08
 245 OF 376

Date: 9/8/2021



	SB	MEDIAN	NB
C	626.9 CY	77.9 CY	105.2 CY
F	11.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	11.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

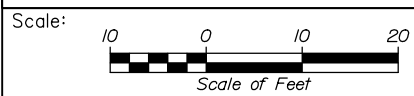
2412+00.00



	SB	MEDIAN	NB
C	491.4 CY	77.4 CY	142.0 CY
F	6.9 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	9.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2411+50.00

Filename: PAW2_Cross_Section_124.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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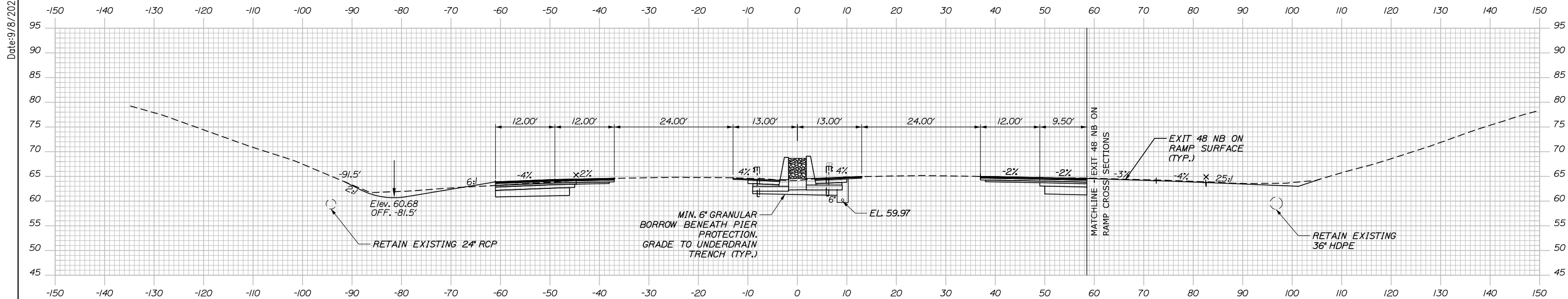
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2411+50 TO STA. | 2412+00
 SHEET NUMBER:

CONTRACT: 2021.08

246 OF 376

Date: 9/8/2021

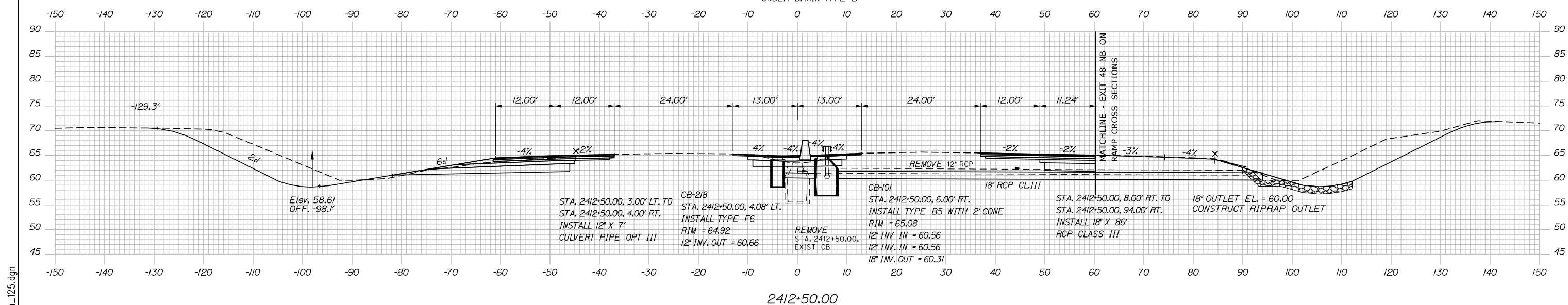


	SB	MEDIAN	NB
C	241.6 CY	67.1 CY	82.1 CY
F	4.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

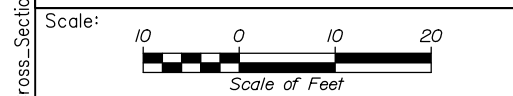
2413+00.00

STA. 2412+52.00, 6.00' RT. TO
 STA. 2414+49.00, 4.08' RT.
 INSTALL 6" X 19"
 UNDER DRAIN TYPE B

	SB	MEDIAN	NB
C	576.8 CY	66.5 CY	91.7 CY
F	9.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	7.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2412+50.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
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Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

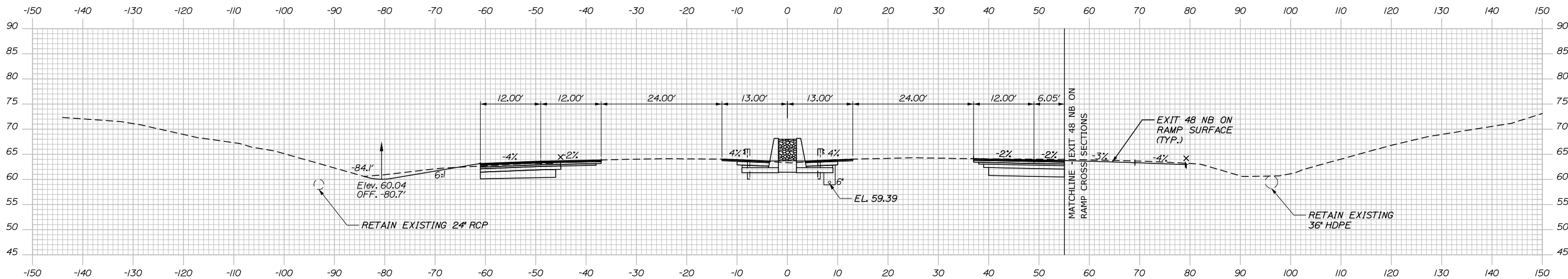
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. | 2412+50 TO STA. | 2413+00
 SHEET NUMBER:
 CONTRACT: 2021.08
 247 OF 376

Filename: PAW2_Cross_Section_125.dgn

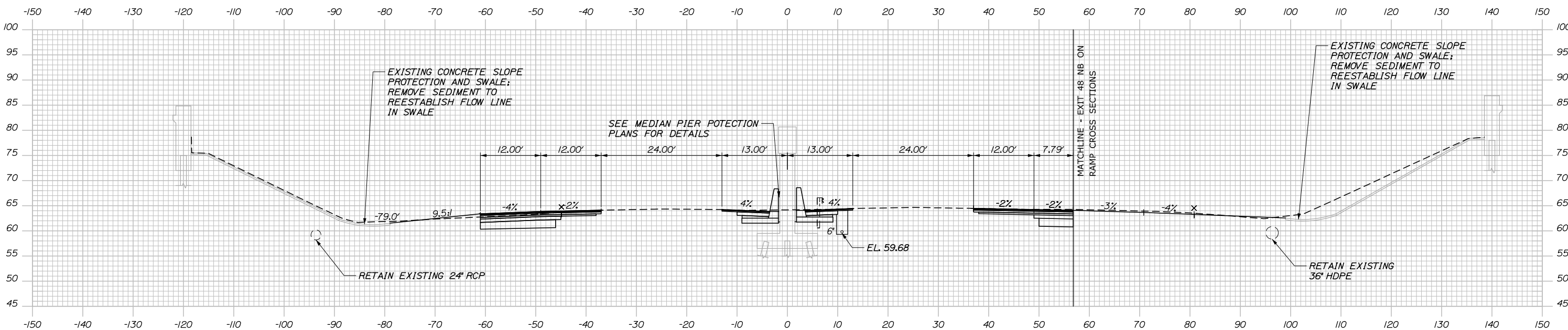
Date: 9/8/2021

	SB	MEDIAN	NB
C	100.0 CY	82.9 CY	85.6 CY
F	6.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



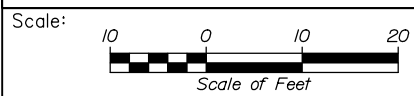
2414+00.00

	SB	MEDIAN	NB
C	102.8 CY	83.5 CY	73.6 CY
F	7.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2413+50.00

Filename: PAW2_Cross_Section_126.dgn



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2413+50 TO STA. m 2414+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

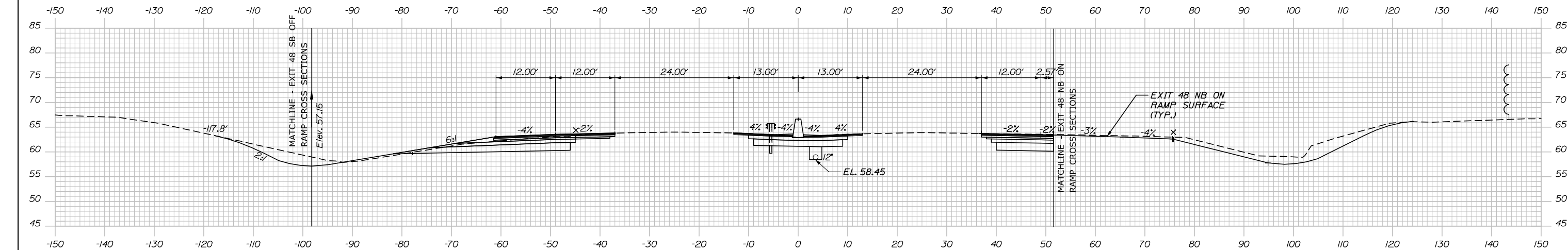
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER:

248 OF 376

Date: 9/8/2021

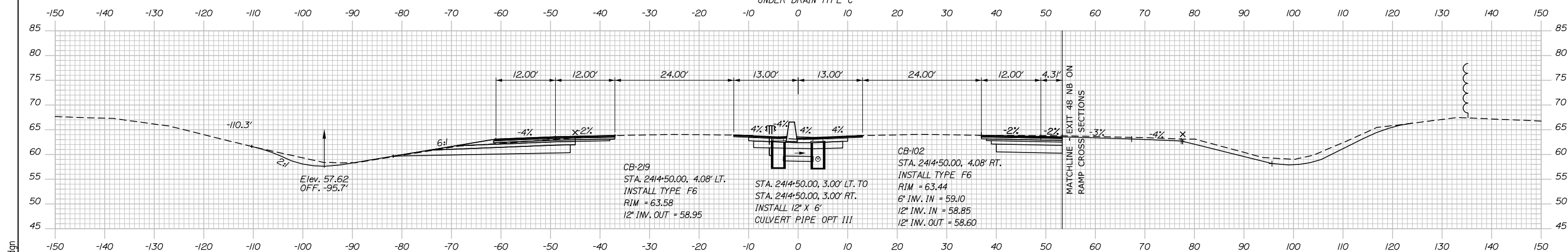


	SB	MEDIAN	NB
C	170.0 CY	78.7 CY	84.7 CY
F	3.6 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2415+00.00

STA. 2414+51.00, 4.08' RT. TO
 STA. 2415+49.00, 4.08' RT.
 INSTALL 12" X 98"
 UNDER DRAIN TYPE C

	SB	MEDIAN	NB
C	133.7 CY	78.1 CY	96.5 CY
F	1.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

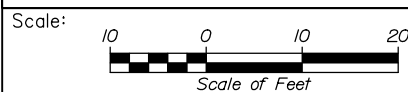


2414+50.00

CB-219
 STA. 2414+50.00, 4.08' LT.
 INSTALL TYPE F6
 RIM = 63.58
 12" INV. OUT = 58.95

STA. 2414+50.00, 3.00' LT. TO
 STA. 2414+50.00, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-102
 STA. 2414+50.00, 4.08' RT.
 INSTALL TYPE F6
 RIM = 63.44
 6" INV. IN = 59.10
 12" INV. IN = 58.85
 12" INV. OUT = 58.60



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2414+50 TO STA. m 2415+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

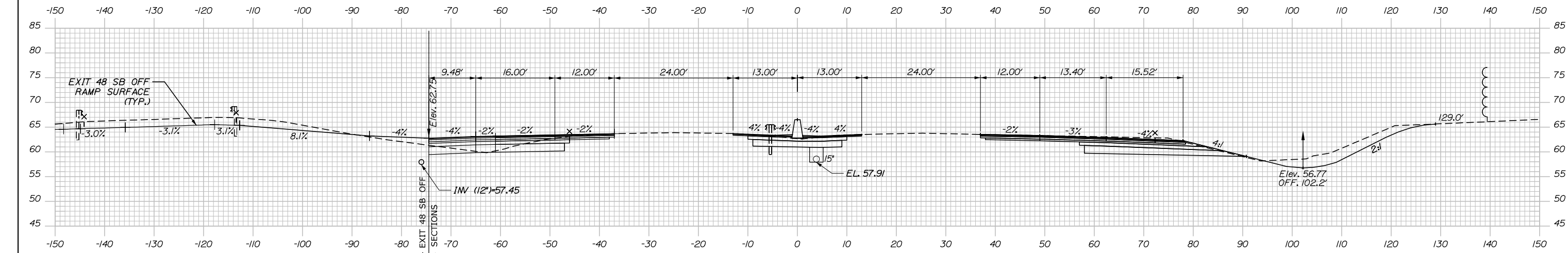
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

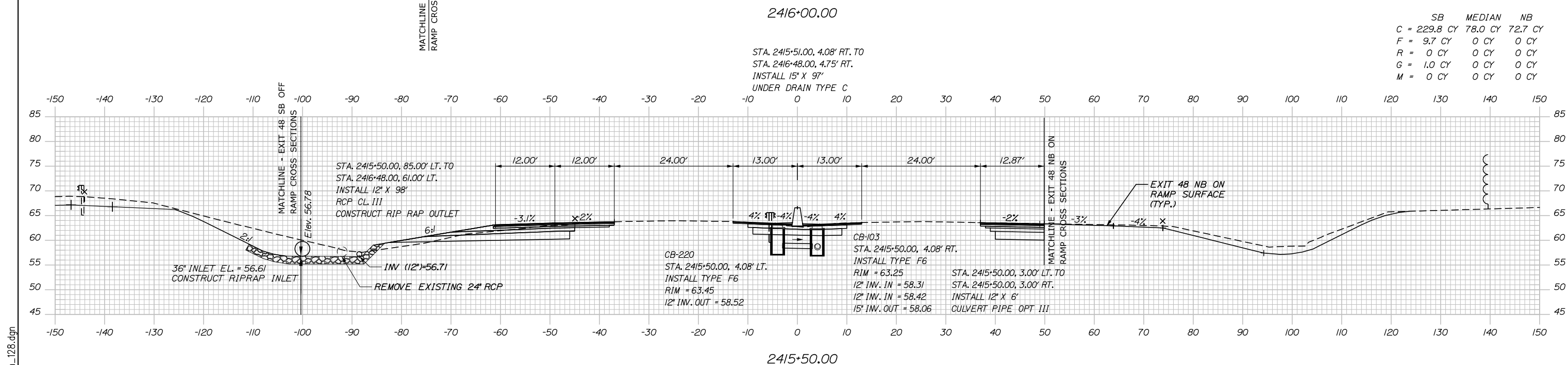
249 OF 376

Filename: PAW2_Cross_Section_127.dgn

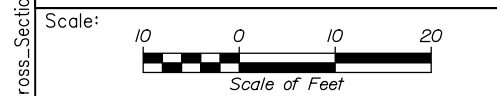
Date: 9/8/2021



	SB	MEDIAN	NB
C	211.9 CY	76.1 CY	167.6 CY
F	6.8 CY	0 CY	0.7 CY
R	0 CY	0 CY	0 CY
G	2.4 CY	0 CY	0.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	229.8 CY	78.0 CY	72.7 CY
F	9.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
 TEL (207) 774-5155
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

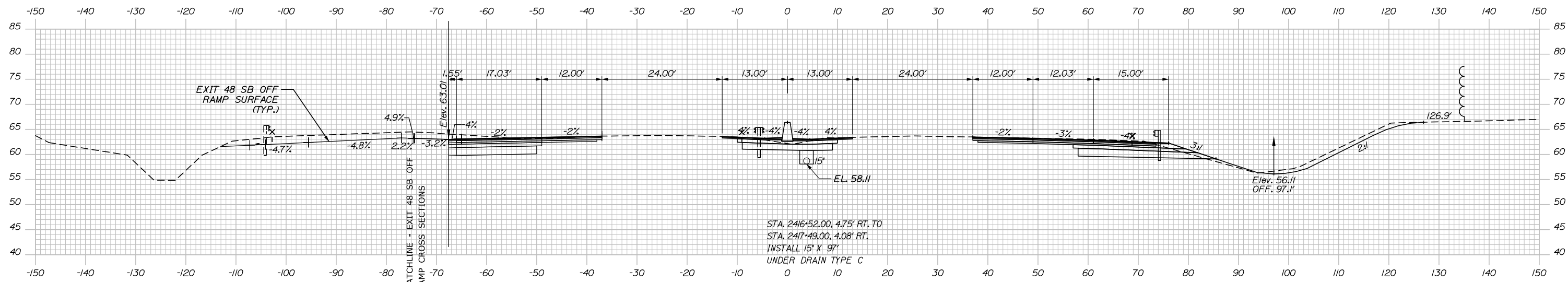
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2415+50 TO STA. m 2416+00

SHEET NUMBER:
 CONTRACT: 2021.08
 250 OF 376

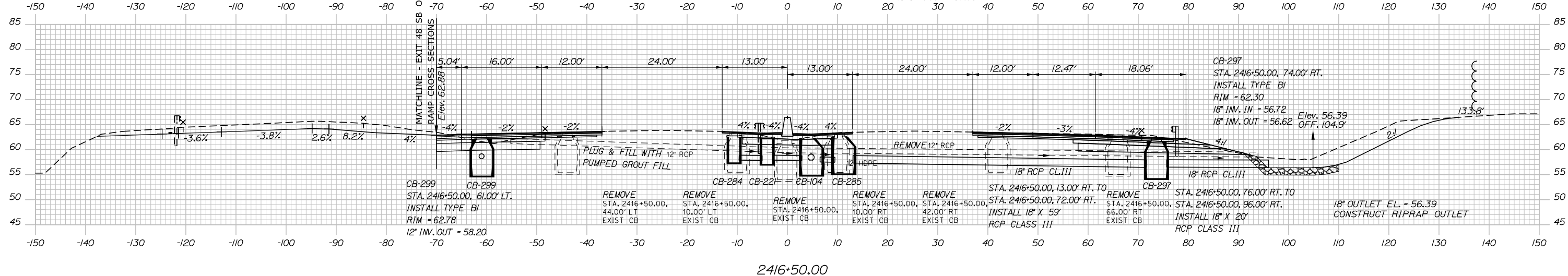
Filename: PAW2_Cross_Section_128.dgn

Date: 9/8/2021

	SB	MEDIAN	NB
C	188.9 CY	66.4 CY	248.4 CY
F	0 CY	0 CY	3.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.4 CY
M	0 CY	0 CY	0 CY

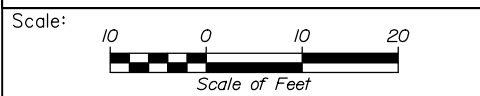


Station	Description	SB	MEDIAN	NB
2416+50.00, 10.75' LT.	INSTALL TYPE F6 RIM = 63.46 12' INV. OUT = 57.88	172.4 CY	68.7 CY	290.7 CY
2416+50.00, 9.75' LT. TO 2416+50.00, 5.00' LT.	INSTALL 12' X 5' CULVERT PIPE OPT III	0 CY	0 CY	0.9 CY
2416+50.00, 4.08' LT.	INSTALL TYPE F6 RIM = 63.32 12' INV. IN = 57.78 12' INV. OUT = 57.53	0 CY	0 CY	0 CY
2416+50.00, 3.00' LT. TO 2416+50.00, 3.00' RT.	INSTALL 12' X 6' CULVERT PIPE OPT III	0 CY	0 CY	0 CY
2416+50.00, 4.75' RT. TO 2416+50.00, 6.00' RT. TO 2416+50.00, 9.75' RT.	INSTALL TYPE B5 WITH 2' CONE INSTALL 15' X 4' CULVERT PIPE OPT III	0 CY	0 CY	0 CY
2416+50.00, 7.40' RT. TO 2416+50.00, 96.00' RT.	INSTALL TYPE BI RIM = 62.30 18' INV. IN = 56.72 18' INV. OUT = 56.62	0 CY	0 CY	0 CY



Station	Description	SB	MEDIAN	NB
2416+50.00, 61.00' LT.	INSTALL TYPE BI RIM = 62.78 12' INV. OUT = 58.20	0 CY	0 CY	0 CY
2416+50.00, 10.00' LT.	REMOVE EXIST CB	0 CY	0 CY	0 CY
2416+50.00, 10.00' RT.	REMOVE EXIST CB	0 CY	0 CY	0 CY
2416+50.00, 42.00' RT.	REMOVE EXIST CB	0 CY	0 CY	0 CY
2416+50.00, 72.00' RT.	INSTALL 18' X 59' RCP CLASS III	0 CY	0 CY	0 CY
2416+50.00, 76.00' RT. TO 2416+50.00, 96.00' RT.	INSTALL 18' X 20' RCP CLASS III	0 CY	0 CY	0 CY

Filename: PAW2_Cross_Section_129.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

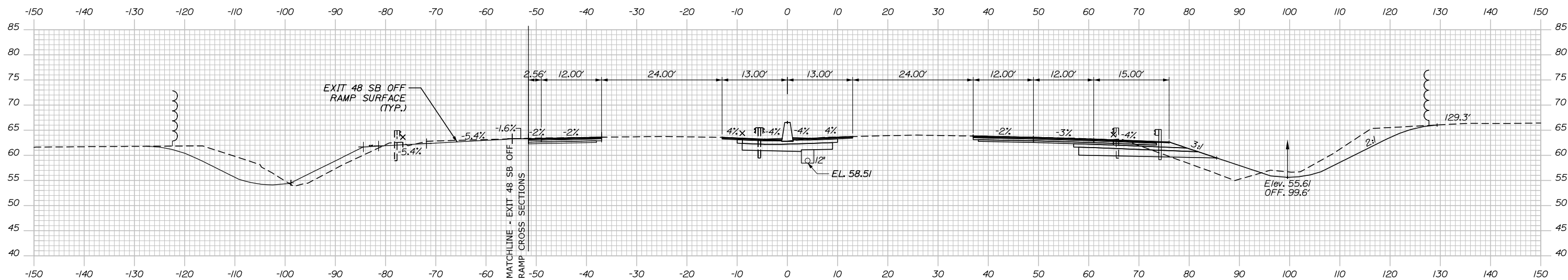
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. m 2416+50 TO STA. m 2417+00

SHEET NUMBER: 2510F 376

CONTRACT: 2021.08

Date: 9/8/2021

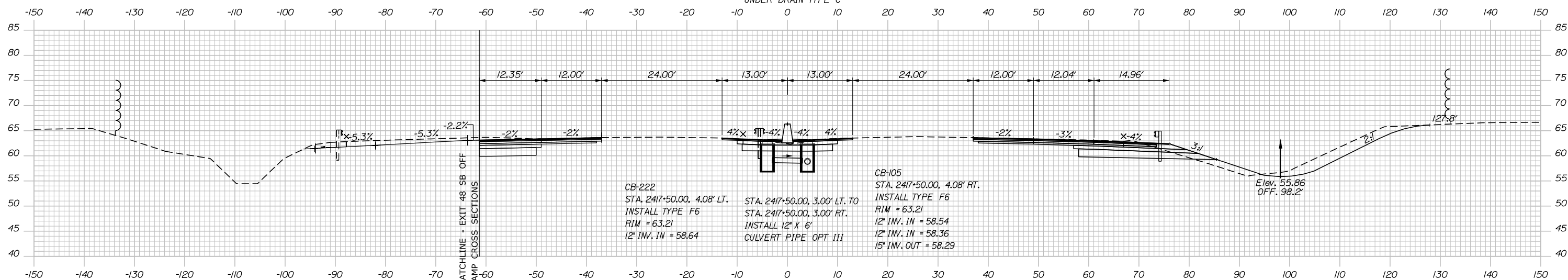
	SB	MEDIAN	NB
C	65.5 CY	75.5 CY	214.9 CY
F	0 CY	0 CY	43.7 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	65.5 CY
M	0 CY	0 CY	0 CY



2418+00.00

STA. 2417+51.00, 4.08' RT. TO
 STA. 2418+99.00, 4.08' RT.
 INSTALL 12" X 148"
 UNDER DRAIN TYPE C

	SB	MEDIAN	NB
C	140.4 CY	72.6 CY	199.4 CY
F	0 CY	0 CY	14.7 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	4.0 CY
M	0 CY	0 CY	0 CY



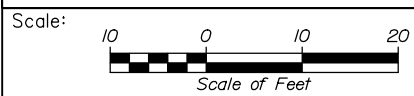
2417+50.00

CB-222
 STA. 2417+50.00, 4.08' LT.
 INSTALL TYPE F6
 RIM = 63.21
 12" INV. IN = 58.64

STA. 2417+50.00, 3.00' LT. TO
 STA. 2417+50.00, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-105
 STA. 2417+50.00, 4.08' RT.
 INSTALL TYPE F6
 RIM = 63.21
 12" INV. IN = 58.54
 12" INV. IN = 58.36
 15" INV. OUT = 58.29

Filename: PAW2_Cross_Section_130.dgn



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THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2417+50 TO STA. m 2418+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

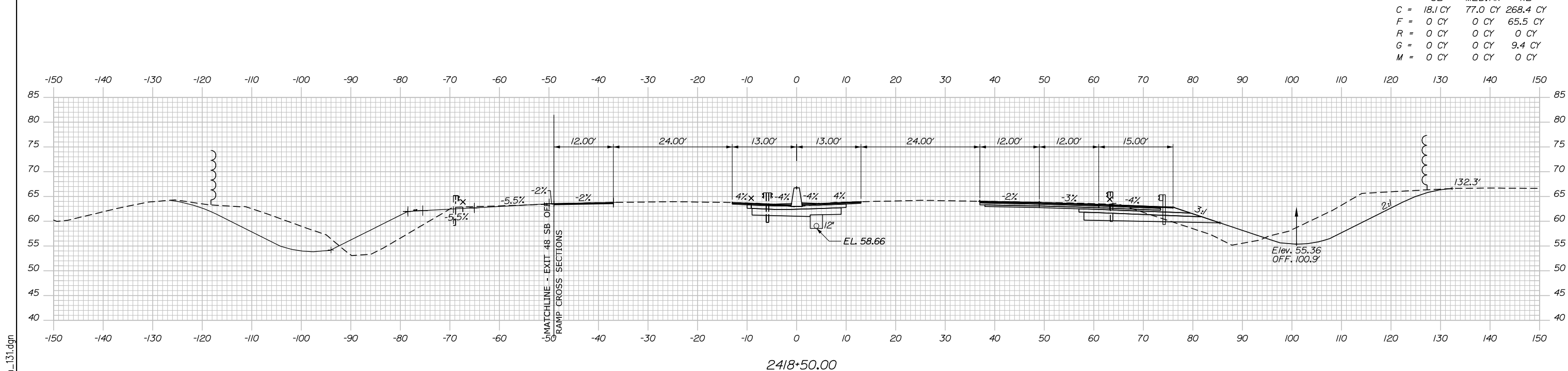
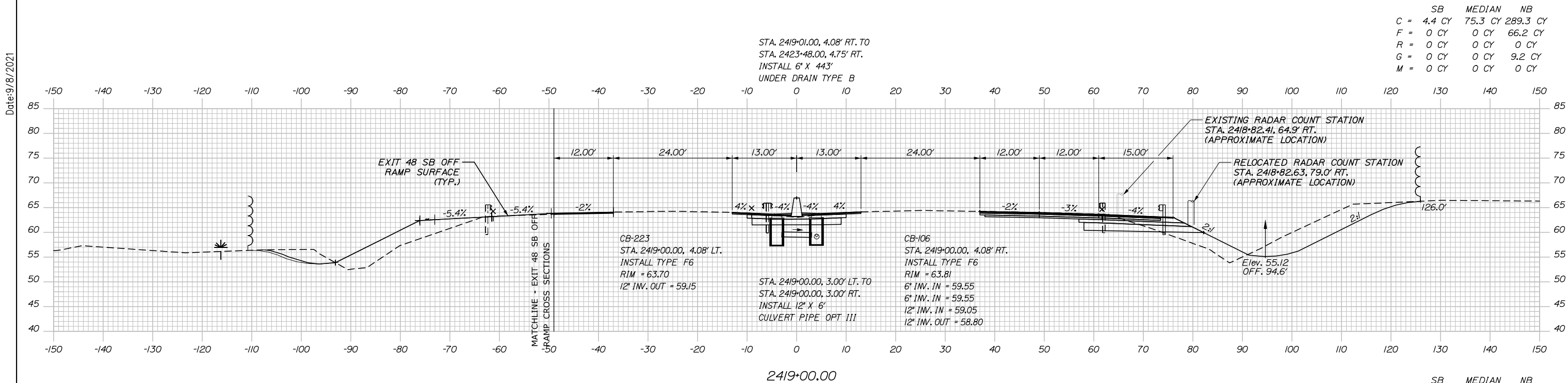
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER:

252 OF 376

Date: 9/8/2021



Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

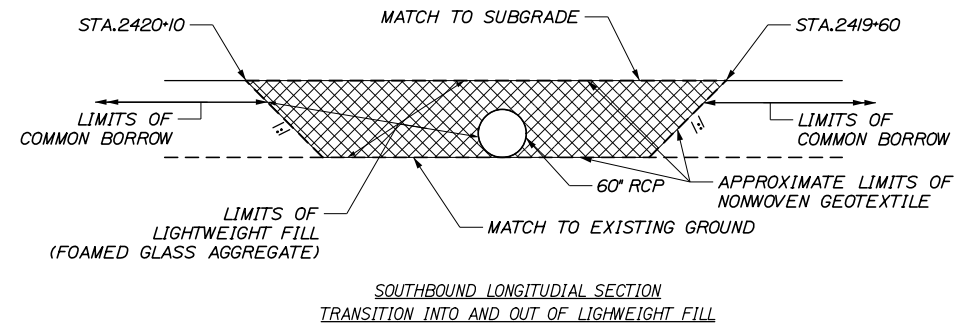
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

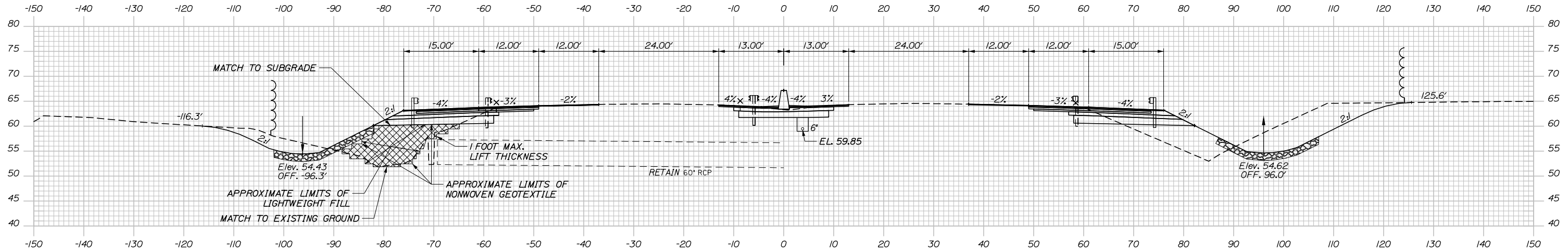
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2418+50 TO STA. m 2419+00
 SHEET NUMBER:
 CONTRACT: 2021.08 253 OF 376

Filename: PAW2_Cross_Section_131.dgn

Date: 9/8/2021



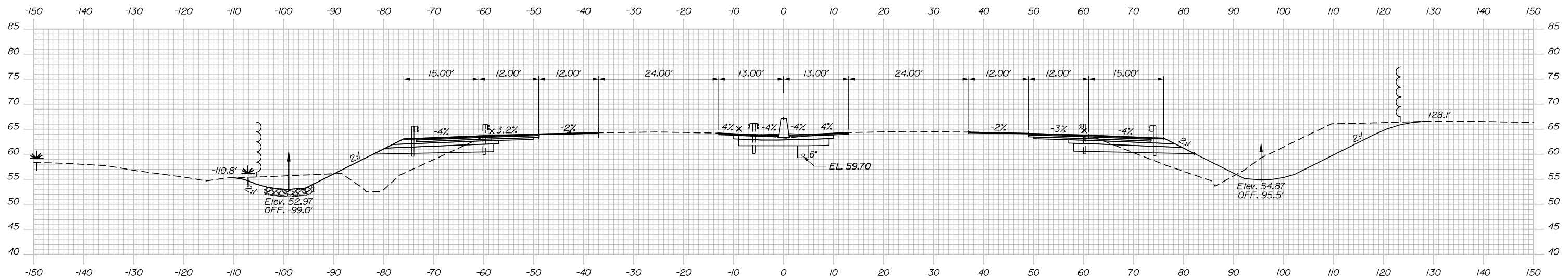
	SB	MEDIAN	NB
C	111.2 CY	73.7 CY	302.0 CY
F	190.3 CY	0 CY	117.9 CY
R	0 CY	0 CY	0 CY
G	5.6 CY	0 CY	11.5 CY
M	0 CY	0 CY	0 CY



RETAIN STA. 2419+60 TO 2420+10 LT. CONSTRUCT FOAMED GLASS AGGREGATE FILL FOR SOUTHBOUND WIDENED AREA. SEE DETAIL THIS SHEET

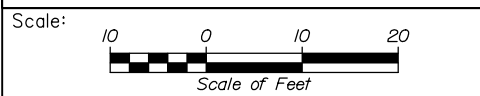
2420+00.00

	SB	MEDIAN	NB
C	57.3 CY	73.9 CY	292.0 CY
F	77.0 CY	0 CY	81.8 CY
R	0 CY	0 CY	0 CY
G	5.0 CY	0 CY	10.4 CY
M	0 CY	0 CY	0 CY



2419+50.00

Filename: PAW2_Cross_Section_132.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

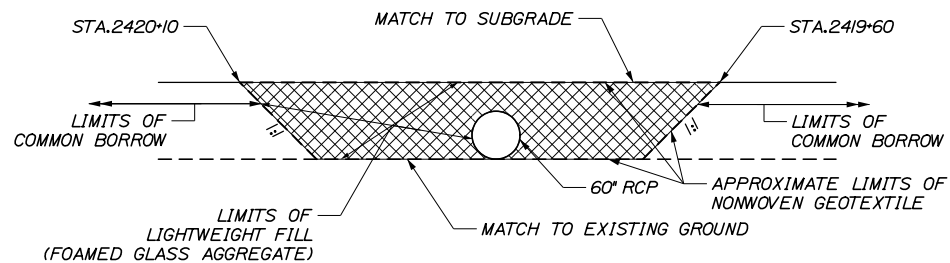
HNTB CORPORATION
 82 Running Hill Road, Suite 201
 South Portland, ME 04106
 TEL (207) 774-5155
 FAX (207) 228-0909

THE GOLD STAR MEMORIAL HIGHWAY

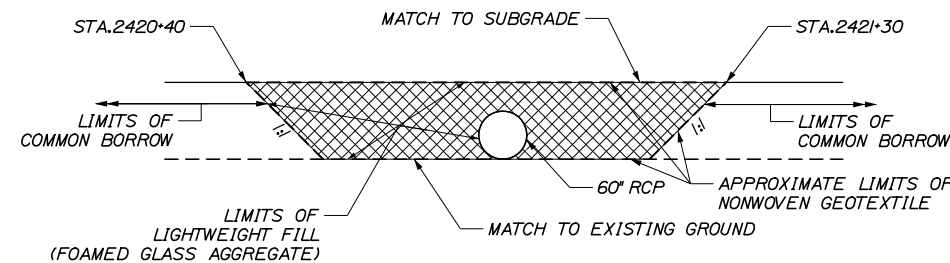
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2419+50 TO STA. m 2420+00
 SHEET NUMBER:
 CONTRACT: 2021.08 254 OF 376

Date: 9/8/2021

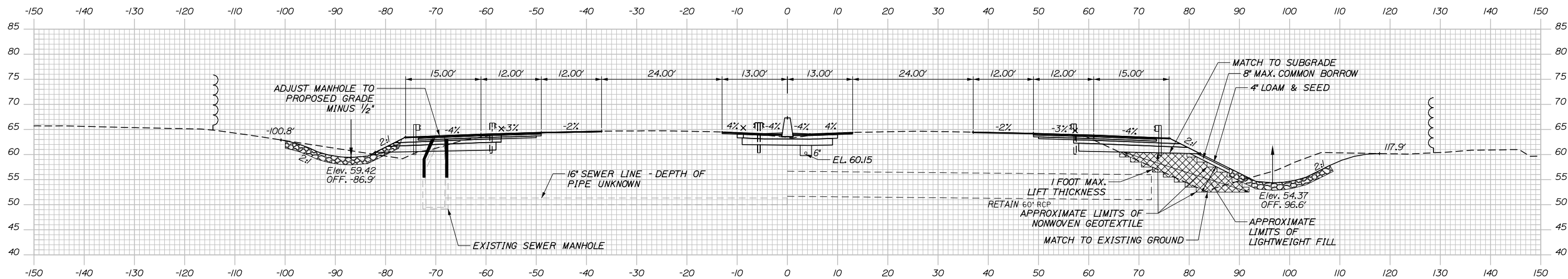


SOUTHBOUND LONGITUDINAL SECTION
TRANSITION INTO AND OUT OF LIGHTWEIGHT FILL



NORTHBOUND LONGITUDINAL SECTION
TRANSITION INTO AND OUT OF LIGHTWEIGHT FILL

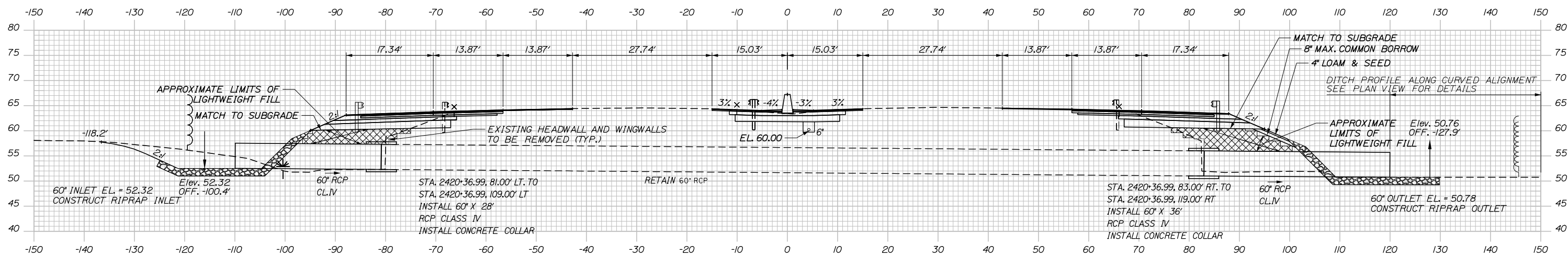
	SB	MEDIAN	NB
C	103.6 CY	73.2 CY	208.9 CY
F	119.7 CY	0 CY	155.6 CY
R	0 CY	0 CY	0 CY
G	5.6 CY	0 CY	10.6 CY
M	0 CY	0 CY	0 CY



2420+50.00

STA. 2419+60 TO 2420+10 LT.
CONSTRUCT FOAMED GLASS
AGGREGATE FILL FOR
SOUTHBOUND WIDENED AREA.
SEE DETAIL THIS SHEET

STA. 2420+40 TO 2421+30 RT.
CONSTRUCT FOAMED GLASS
AGGREGATE FILL FOR
NORTHBOUND WIDENED AREA.
SEE DETAIL THIS SHEET



2420+36.99 (SKEWED)



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. m 2420+37 TO STA. m 2420+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

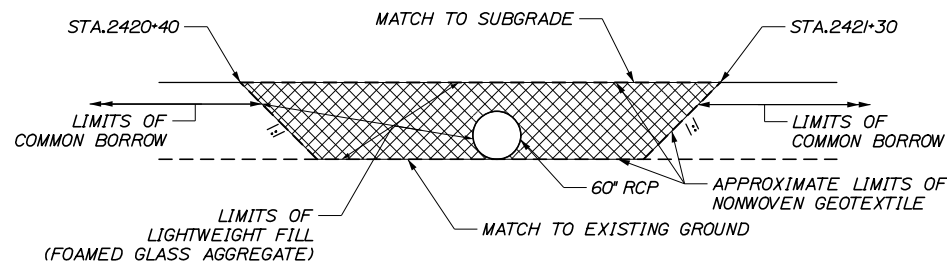
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

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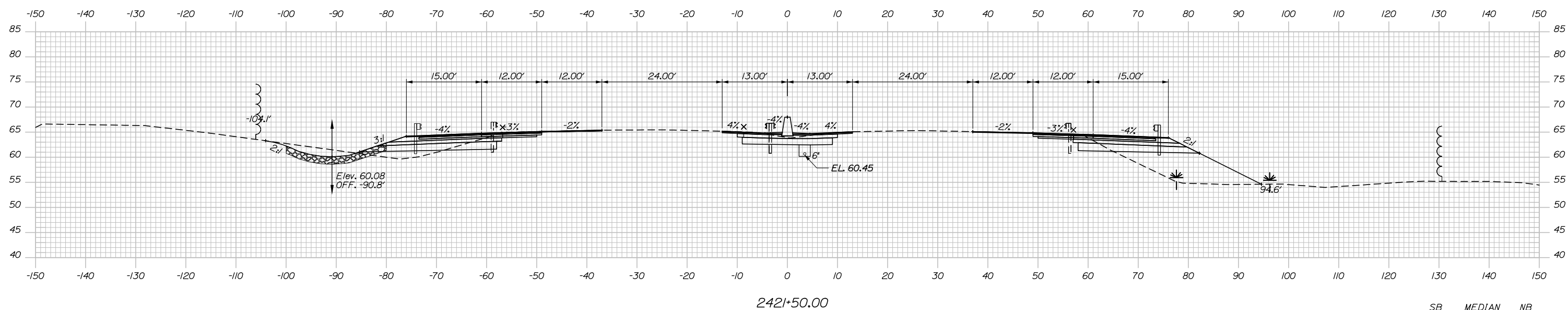
Filename: PAW2_Cross_Section_133.dgn

Date: 9/8/2021



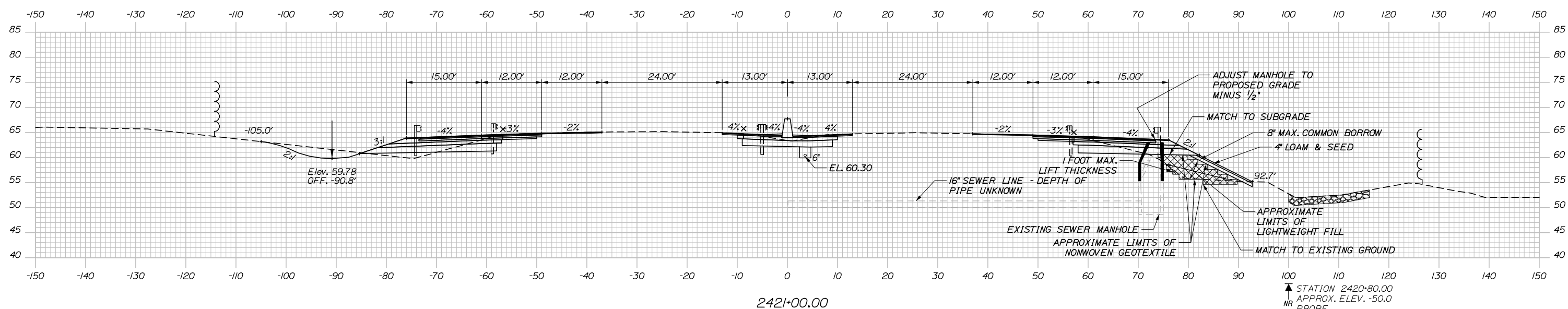
	SB	MEDIAN	NB
C	87.4 CY	71.1 CY	49.4 CY
F	22.5 CY	0 CY	144.9 CY
R	0 CY	0 CY	0 CY
G	15.7 CY	0 CY	8.7 CY
M	0 CY	0 CY	0 CY

NORTHBOUND LONGITUDIAL SECTION
TRANSITION INTO AND OUT OF LIGHTWEIGHT FILL



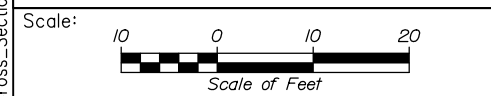
	SB	MEDIAN	NB
C	95.7 CY	71.2 CY	99.9 CY
F	13.9 CY	0 CY	137.0 CY
R	0 CY	0 CY	0 CY
G	12.4 CY	0 CY	8.9 CY
M	0 CY	0 CY	0 CY

STA. 2420+40 TO 2421+30 RT.
CONSTRUCT FOAMED GLASS
AGGREGATE FILL FOR
NORTHBOUND WIDENED AREA.
SEE DETAIL THIS SHEET



STATION 2420+80.00
APPROX. ELEV. -50.0
NR PROBE

Filename: PAW2_Cross_Section_134.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

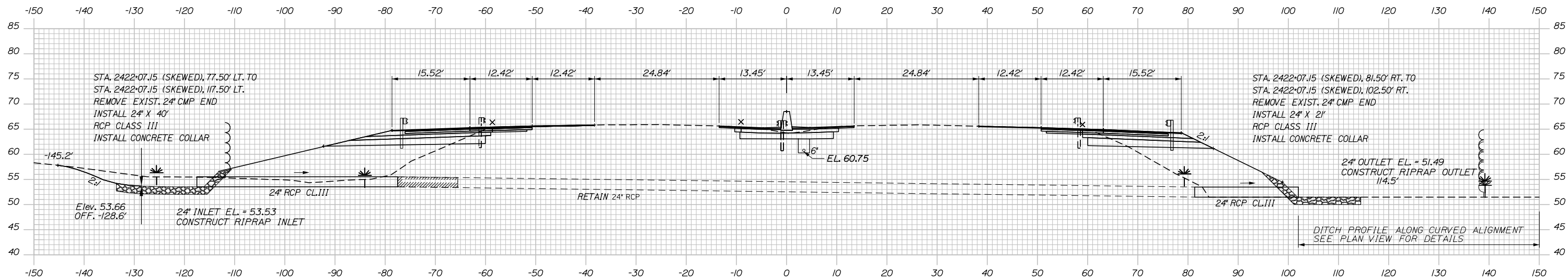
HNTB CORPORATION
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South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

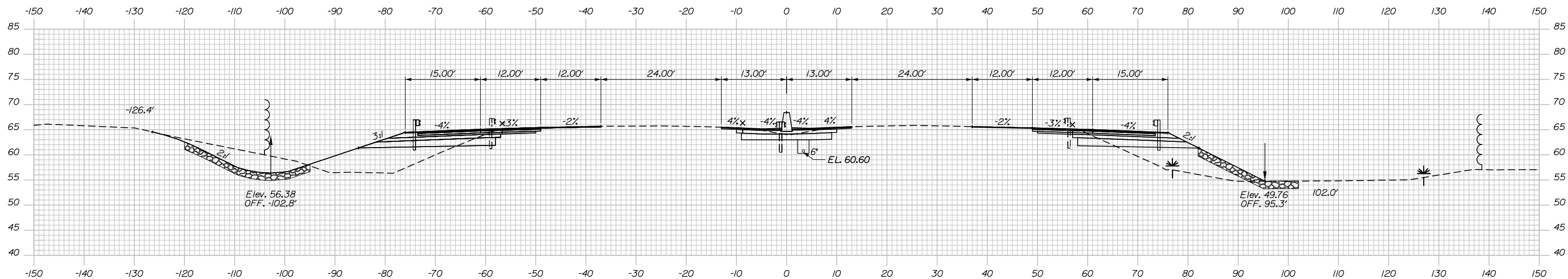
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. m 2421+00 TO STA. m 2421+50
SHEET NUMBER:
CONTRACT: 2021.08
256 OF 376

Date: 9/8/2021



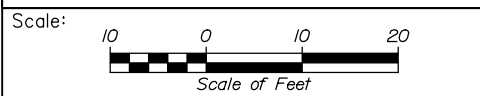
2422+07.15 (SKEWED)

	SB	MEDIAN	NB
C	117.8 CY	69.0 CY	41.7 CY
F	103.7 CY	0 CY	179.3 CY
R	0 CY	0 CY	0 CY
G	17.6 CY	0 CY	10.4 CY
M	0 CY	0 CY	11.0 CY



2422+00.00

Filename: PAW2_Cross_Section_135.dgn



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. m 2422+00 TO STA. m 2422+07
SHEET NUMBER:

No.	Revision	By	Date

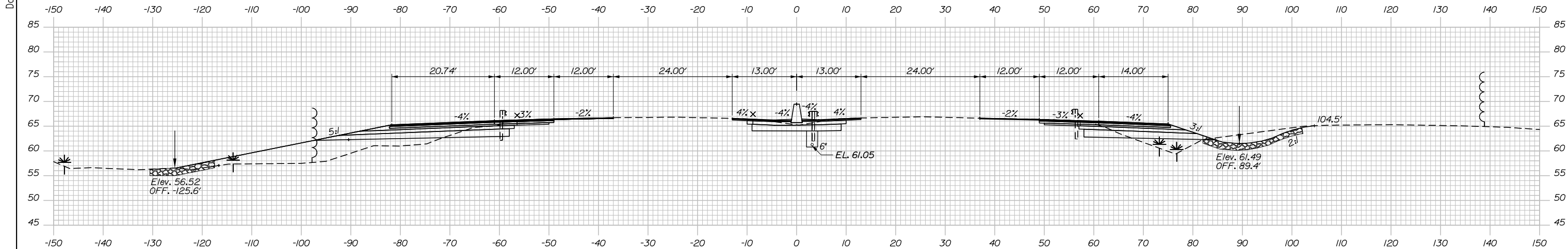
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

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Date: 9/8/2021

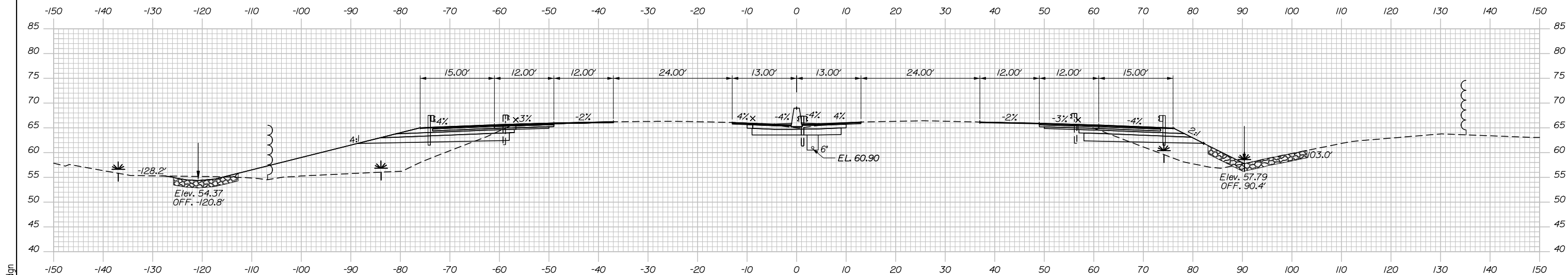


STA. 2423+00.00
 END MEDIAN RECONSTRUCTION WITH BARRIER, CONTRACT 2021.08
 MATCH CONTRACT 2019.10

	SB	MEDIAN	NB
C	55.2 CY	71.0 CY	72.0 CY
F	276.0 CY	0 CY	75.4 CY
R	0 CY	0 CY	0 CY
G	18.2 CY	0 CY	10.0 CY
M	10.7 CY	0 CY	18.5 CY

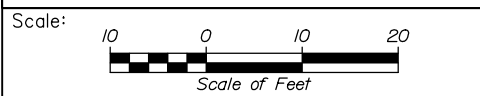
2423+00.00

	SB	MEDIAN	NB
C	102.7 CY	68.8 CY	45.4 CY
F	290.7 CY	0 CY	139.5 CY
R	0 CY	0 CY	0 CY
G	18.4 CY	0 CY	9.0 CY
M	10.7 CY	0 CY	24.6 CY



2422+50.00

Filename: PAW2_Cross_Section_136.dgn



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THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2422+50 TO STA. m 2423+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	JS	09\21	Checked
Drawn	GW	09\21	In Charge of
			TRC

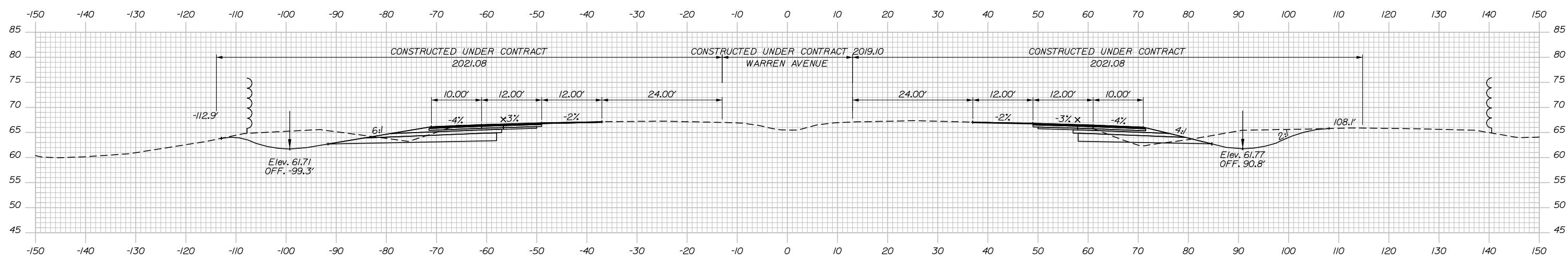
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

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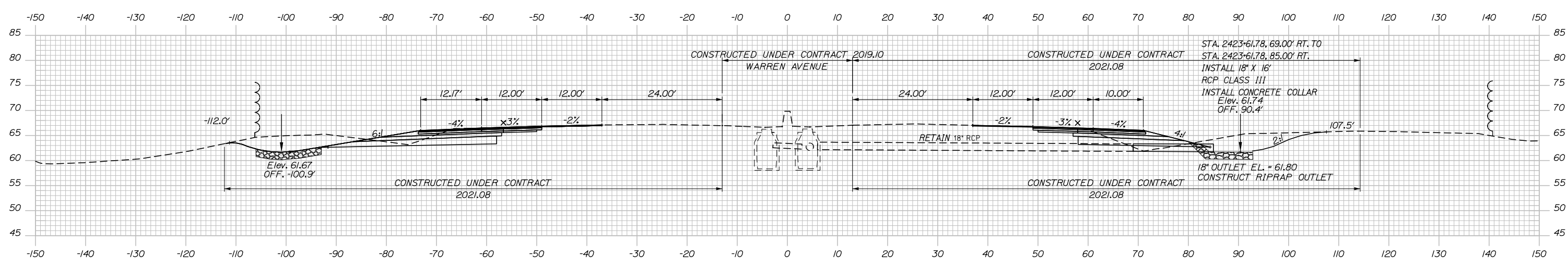
Date: 9/8/2021

	SB	NB
C	28.7 CY	18.9 CY
F	2.3 CY	0.8 CY
R	0 CY	0 CY
G	0.1 CY	1.1 CY
M	0 CY	0 CY



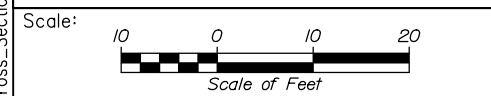
2423+56.00

	SB	MEDIAN	NB
C	102.7 CY	69.0 CY	123.0 CY
F	290.7 CY	0 CY	24.9 CY
R	0 CY	0 CY	0 CY
G	18.4 CY	0 CY	11.6 CY
M	10.7 CY	0 CY	4.9 CY



2423+50.00

Filename: PAW2_Cross_Section_137.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

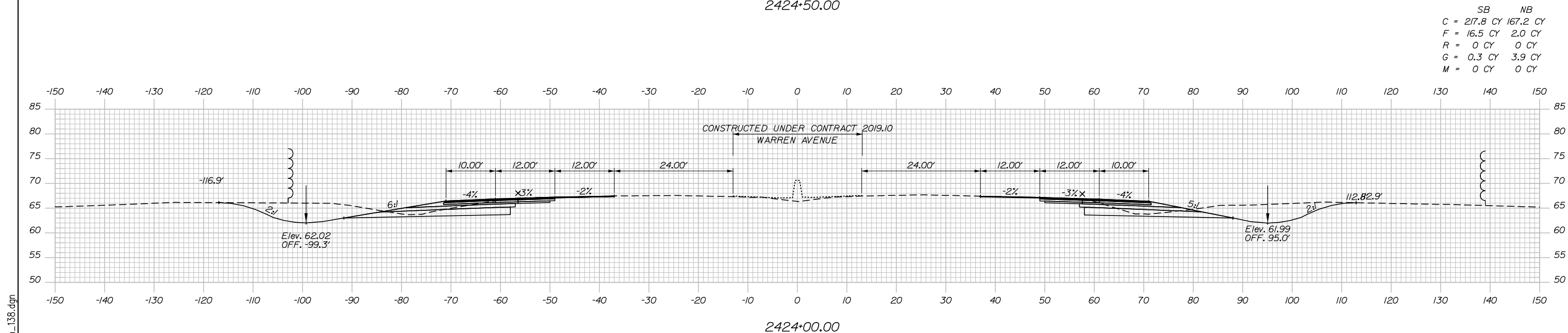
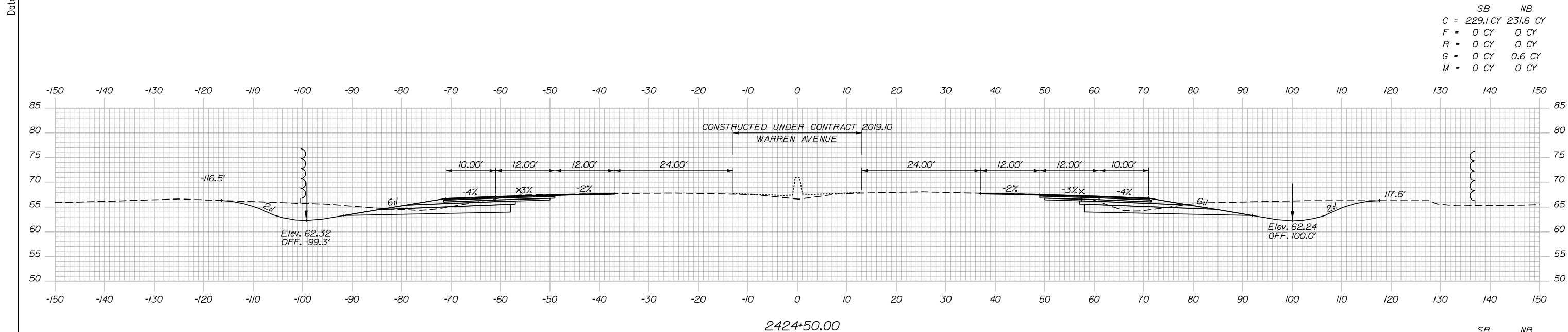
HNTB CORPORATION
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

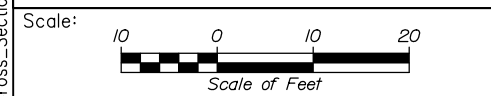
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2423+50 TO STA. m 2423+56
 SHEET NUMBER:
 CONTRACT: 2021.08

Date: 9/8/2021



Filename: PAW2_Cross_Section_138.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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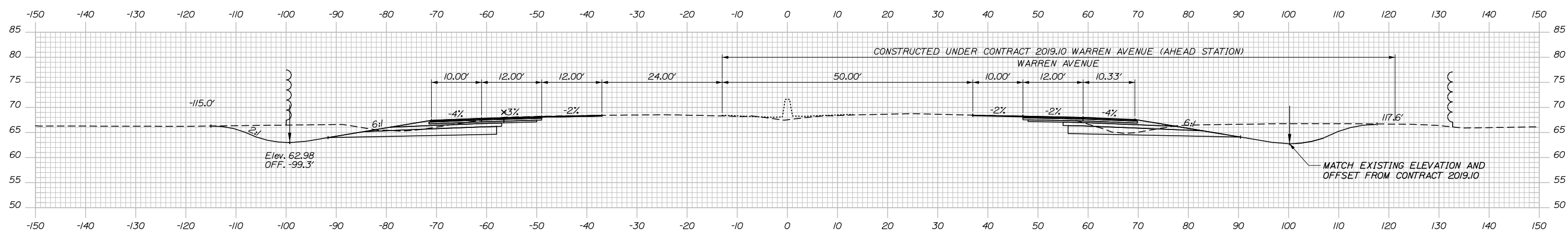
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MAINE TURNPIKE CROSS SECTIONS
STA. m 2424+00 TO STA. m 2424+50
SHEET NUMBER:
CONTRACT: 2021.08
260 OF 376

Date: 9/8/2021

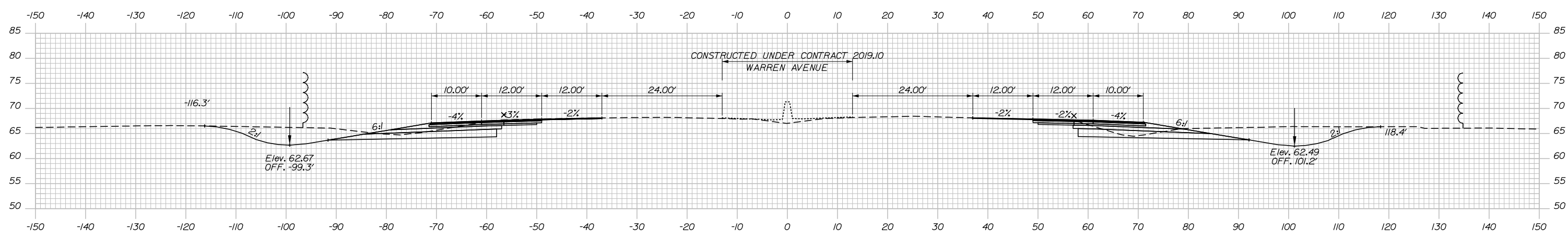
SB NB
 C = 235.5 CY 245.6 CY
 F = 0 CY 0 CY
 R = 0 CY 0 CY
 G = 0 CY 1.0 CY
 M = 0 CY 0 CY



2425+50.00

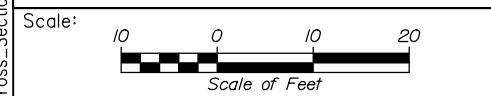
STA. 2425+50.00
 END NORTHBOUND WIDENING, CONTRACT 2021.08
 MATCH CONTRACT 2019.10

SB NB
 C = 225.4 CY 243.4 CY
 F = 0 CY 0 CY
 R = 0 CY 0 CY
 G = 0 CY 0.6 CY
 M = 0 CY 0 CY



2425+00.00

Filename: PAW2_Cross_Section_139.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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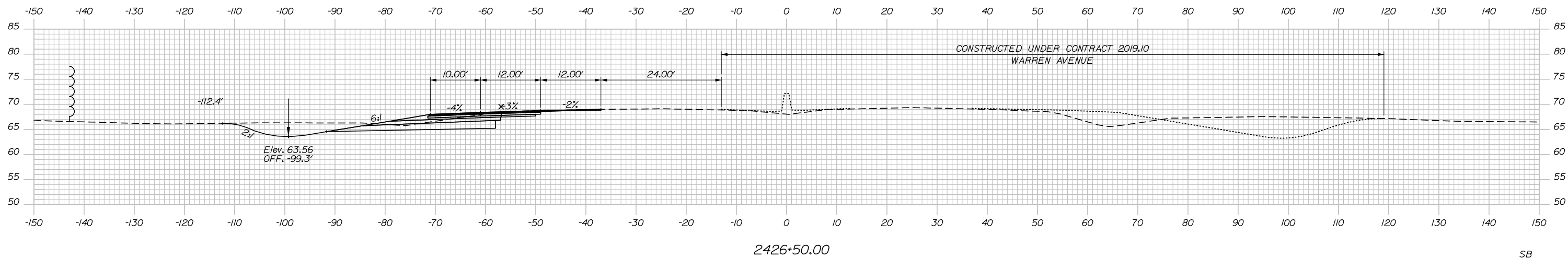
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

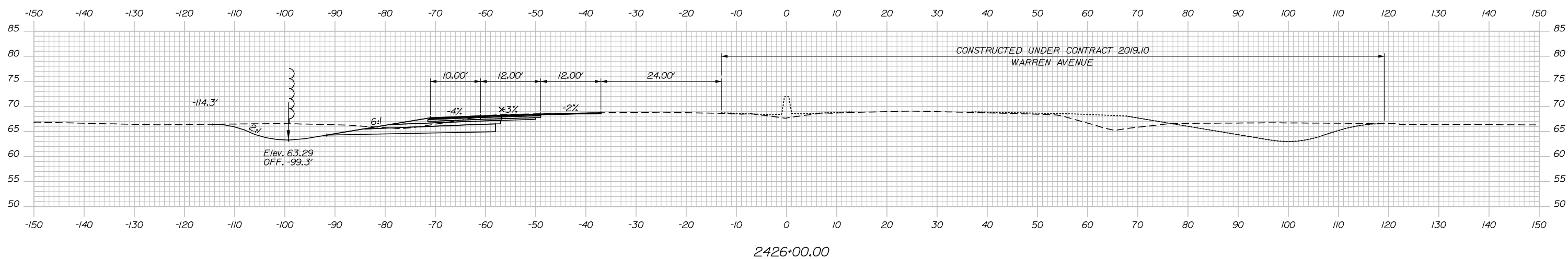
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2425+00 TO STA. m 2425+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 261 OF 376

Date: 9/8/2021

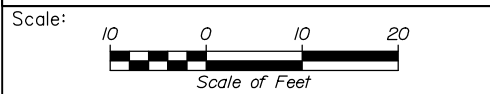
SB
 C = 213.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



SB
 C = 232.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_140.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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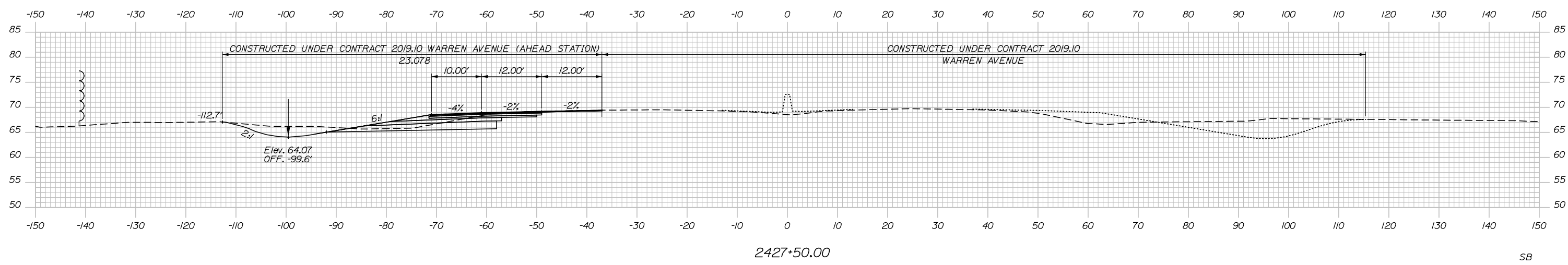
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2426+00 TO STA. m 2426+50

SHEET NUMBER:
 CONTRACT: 2021.08
 262 OF 376

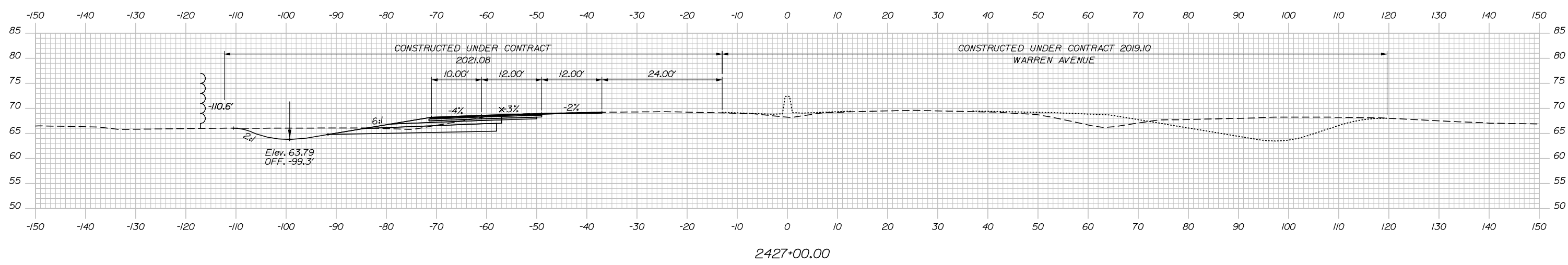
Date: 9/8/2021

SB
 C = 146.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

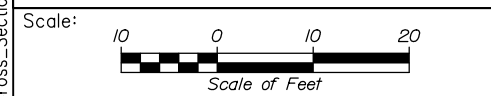


STA. 2427+50.00
 END SOUTHBOUND WIDENING, CONTRACT 2021.08
 MATCH CONTRACT 2019.10

SB
 C = 199.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_141.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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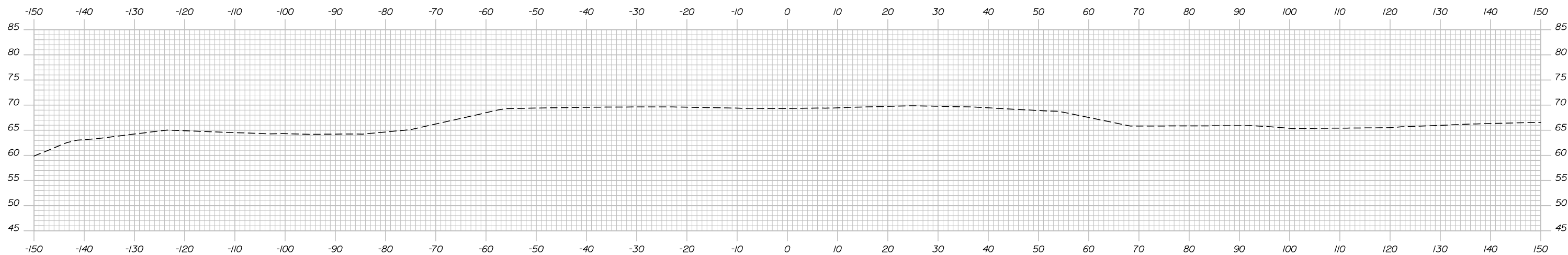
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

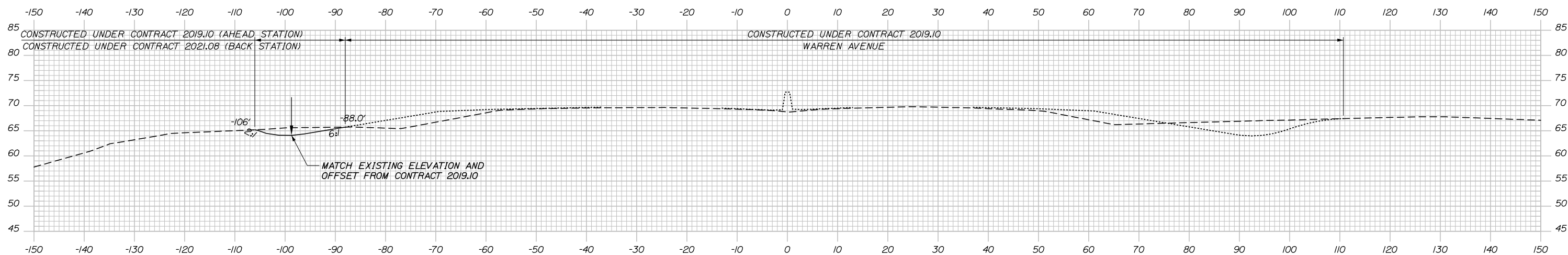
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2427+00 TO STA. m 2427+50

SHEET NUMBER:
 CONTRACT: 2021.08
 263 OF 376

Date: 9/8/2021

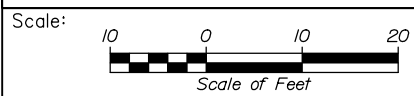


2428+50.00



2428+00.00

Filename: PAW2_Cross_Section_142.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MAINE TURNPIKE CROSS SECTIONS
 STA. m 2428+00 TO STA. m 2428+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

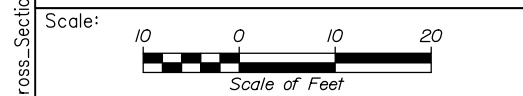
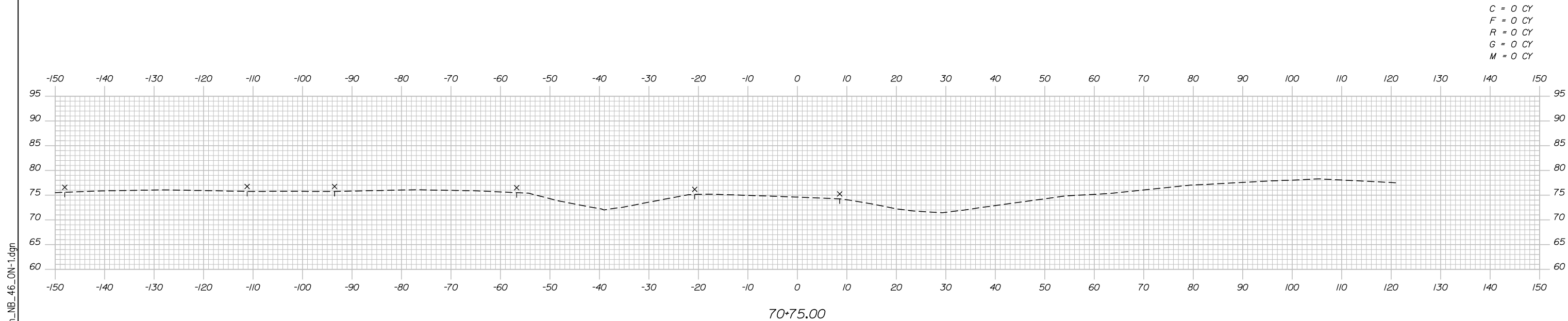
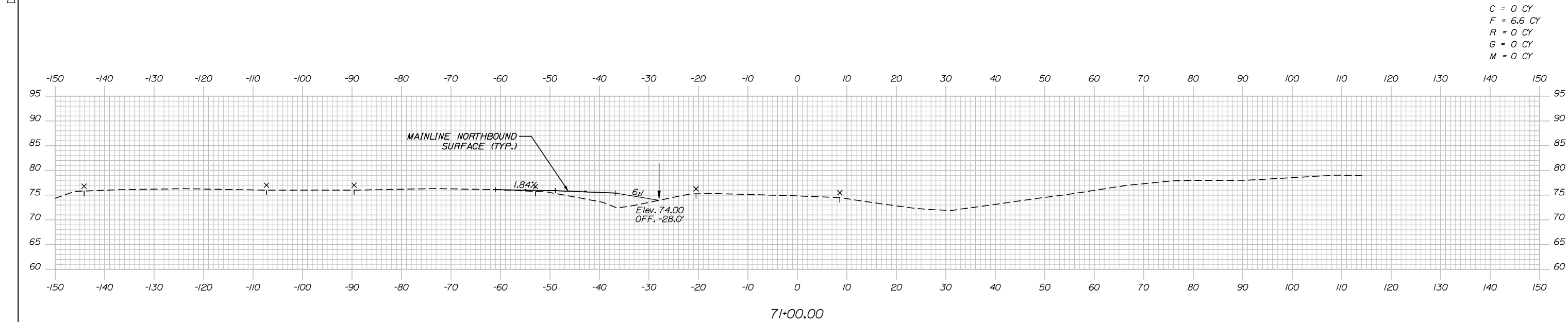
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER:

264 OF 376

Date: 9/8/2021



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

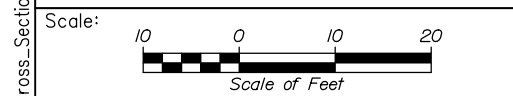
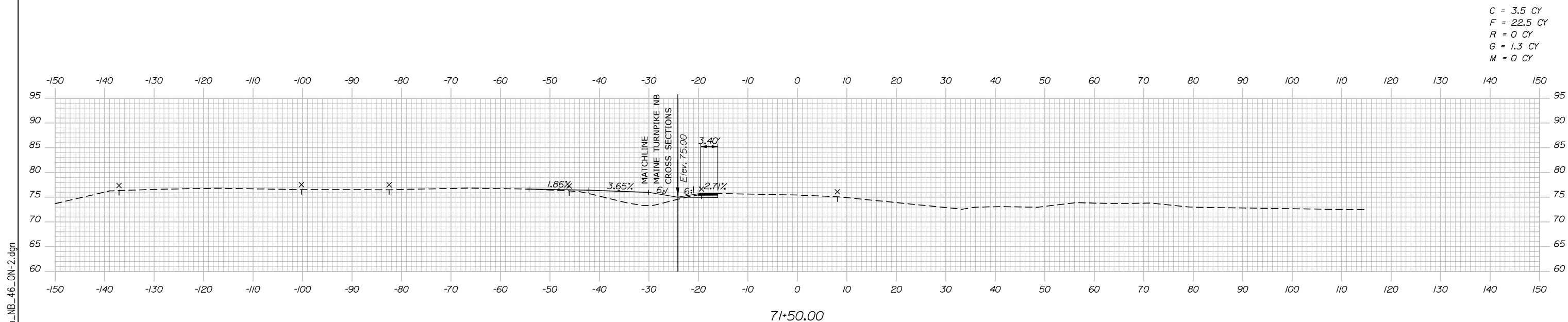
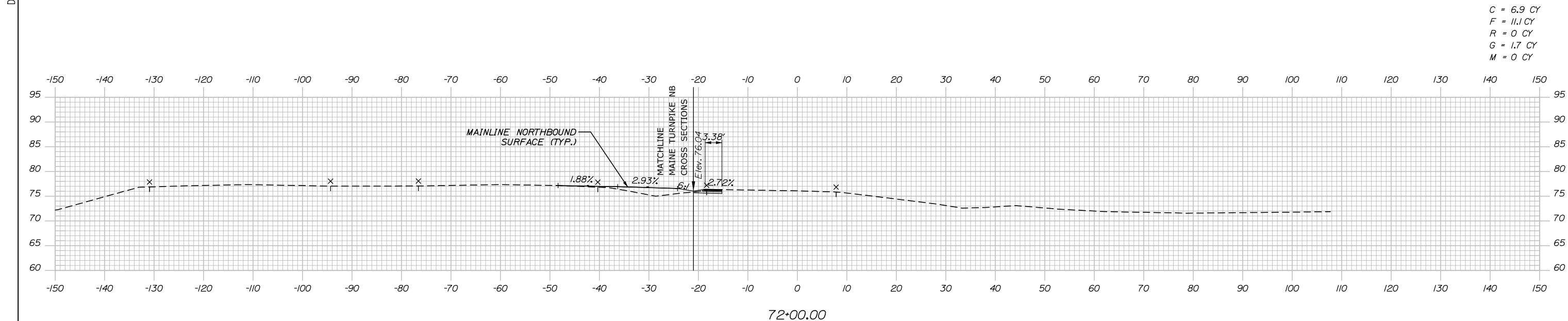
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 NB ON CROSS SECTIONS
 STA. 70+75 TO STA. 71+00

SHEET NUMBER:
265 OF 376

CONTRACT: 2021.08

Filename: PAW2_Cross_Section_NB_46_ON-1.dgn

Date: 9/8/2021



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

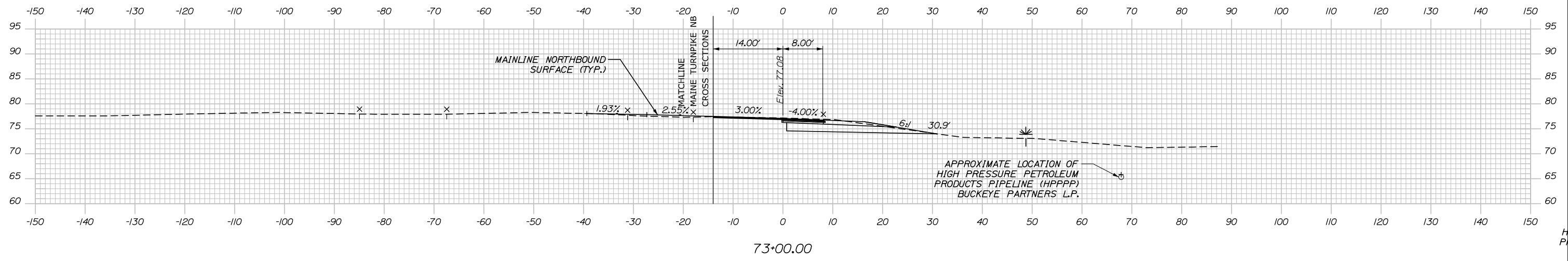
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
RAMP 46 NB ON CROSS SECTIONS
STA. 71+50 TO STA. 72+00

SHEET NUMBER:
CONTRACT: 2021.08

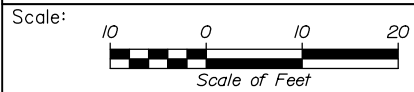
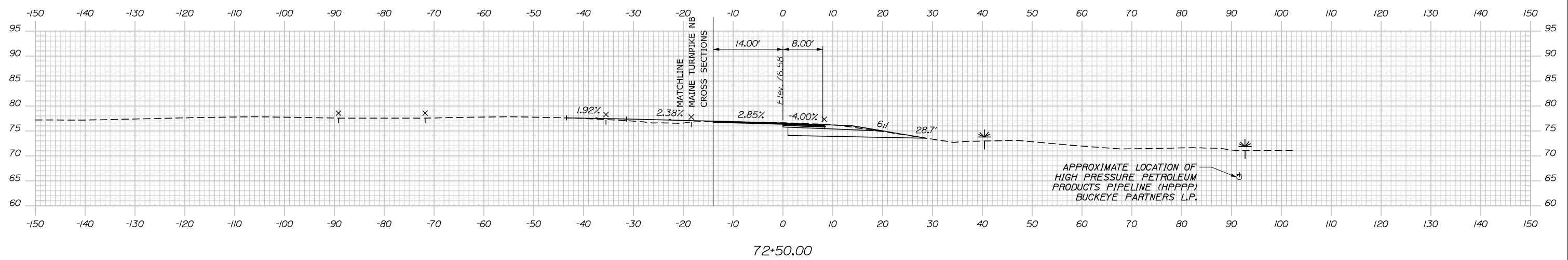
Date: 9/8/2021

Filename: PAW2_Cross_Section_NB_46_ON-3.dgn

C = 95.9 CY
 F = 0 CY
 R = 0 CY
 G = 1.8 CY
 M = 0 CY



C = 49.1 CY
 F = 1.8 CY
 R = 0 CY
 G = 1.2 CY
 M = 0 CY



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 NB ON CROSS SECTIONS
 STA. 72+50 TO STA. 73+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS
Drawn	By GW	Date 09\21	In Charge of TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

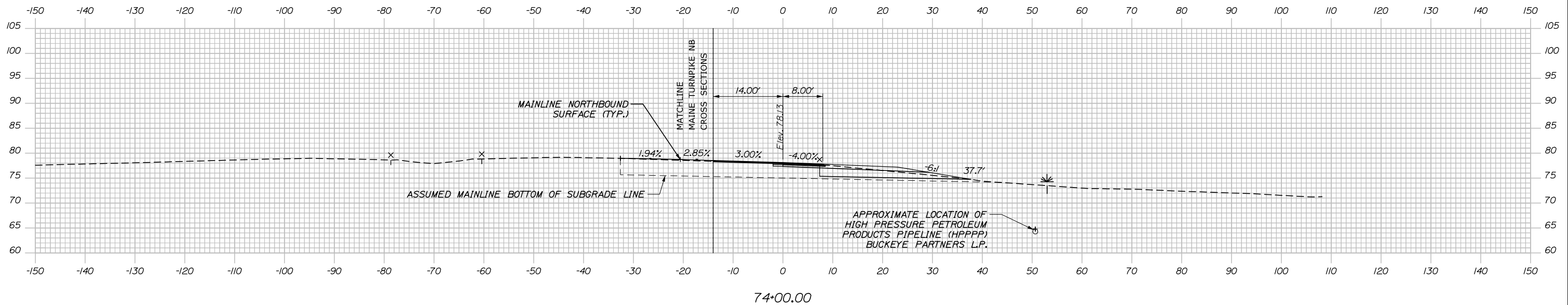
CONTRACT: 2021.08

SHEET NUMBER:

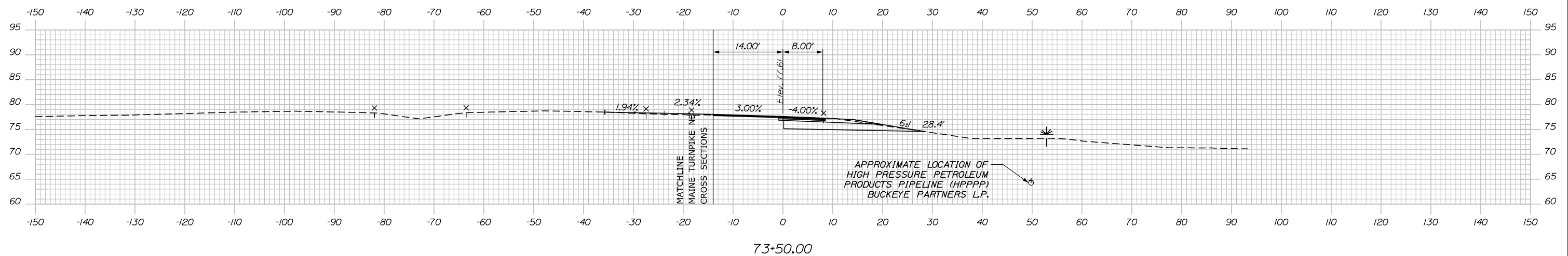
267 OF 376

Date: 9/8/2021

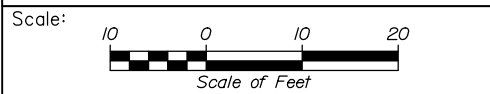
C = 84.0 CY
 F = 0 CY
 R = 0 CY
 G = 2.3 CY
 M = 0 CY



C = 93.5 CY
 F = 0 CY
 R = 0 CY
 G = 1.9 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_46_ON-4.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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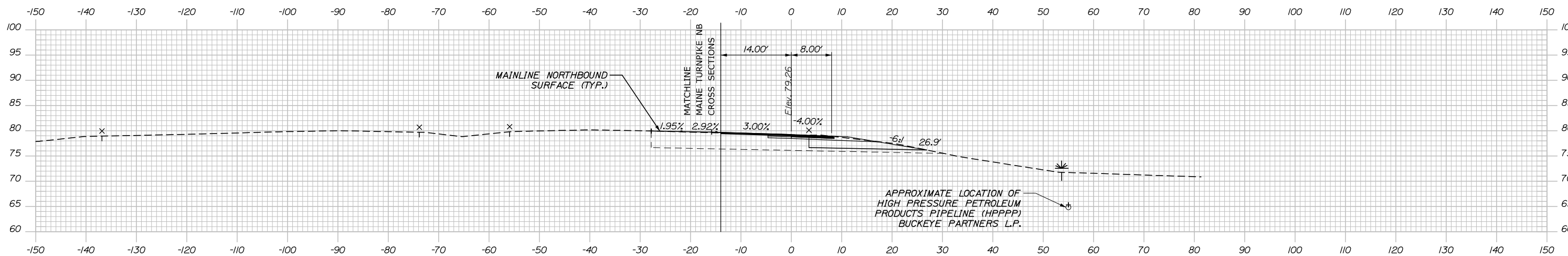
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 NB ON CROSS SECTIONS
 STA. 73+50 TO STA. 74+00

SHEET NUMBER:
 CONTRACT: 2021.08
 268 OF 376

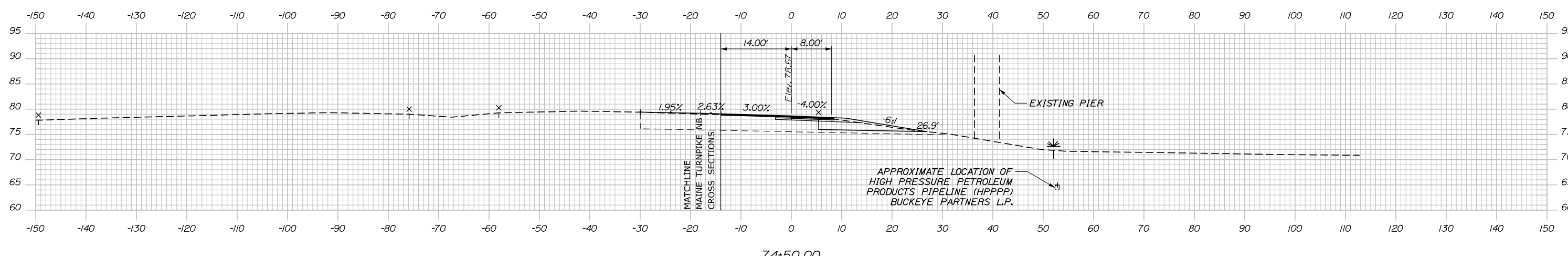
Date: 9/8/2021

C = 70.6 CY
 F = 0 CY
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 G = 1.9 CY
 M = 0 CY

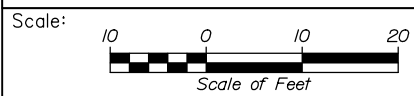


75+00.00

C = 70.5 CY
 F = 0 CY
 R = 0 CY
 G = 2.1 CY
 M = 0 CY



74+50.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 NB ON CROSS SECTIONS
 STA. 74+50 TO STA. 75+00

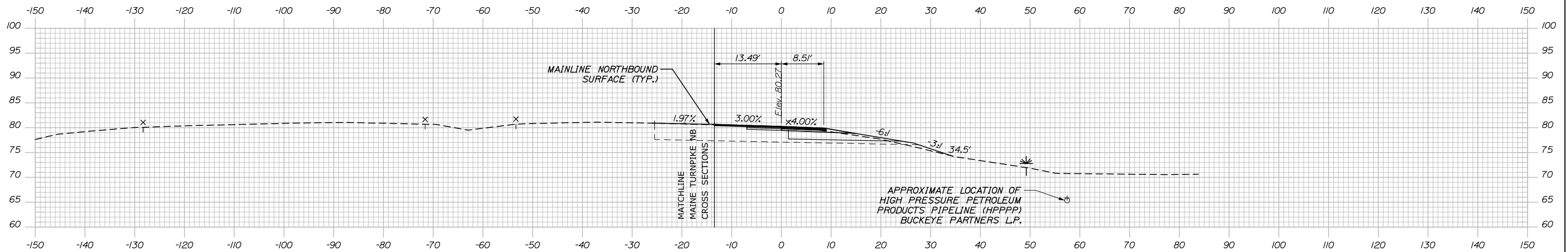
SHEET NUMBER:
 269 OF 376

CONTRACT: 2021.08

Filename: PAW2_Cross_Section_NB_46_ON-5.dgn

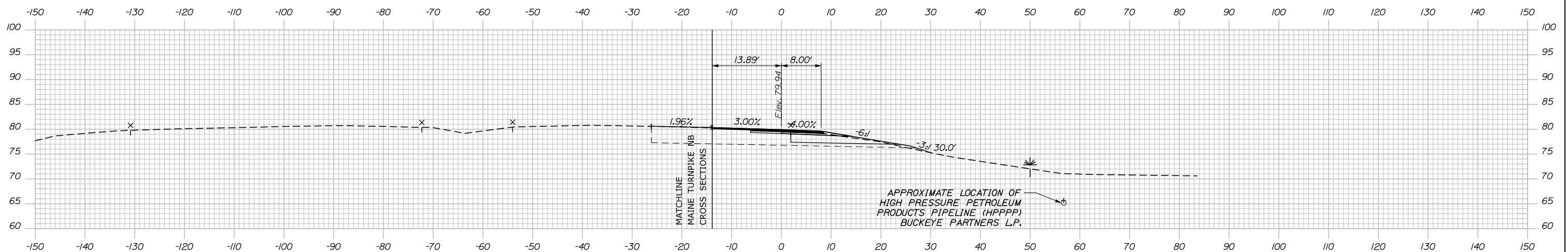
Date: 9/8/2021

C = 32.3 CY
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 G = 1.7 CY
 M = 0 CY

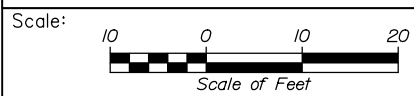


75+75.00

C = 73.4 CY
 F = 2.1 CY
 R = 0 CY
 G = 2.1 CY
 M = 0 CY



75+50.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 NB ON CROSS SECTIONS
 STA. 75+50 TO STA. 75+75

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

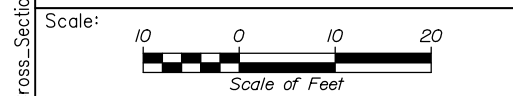
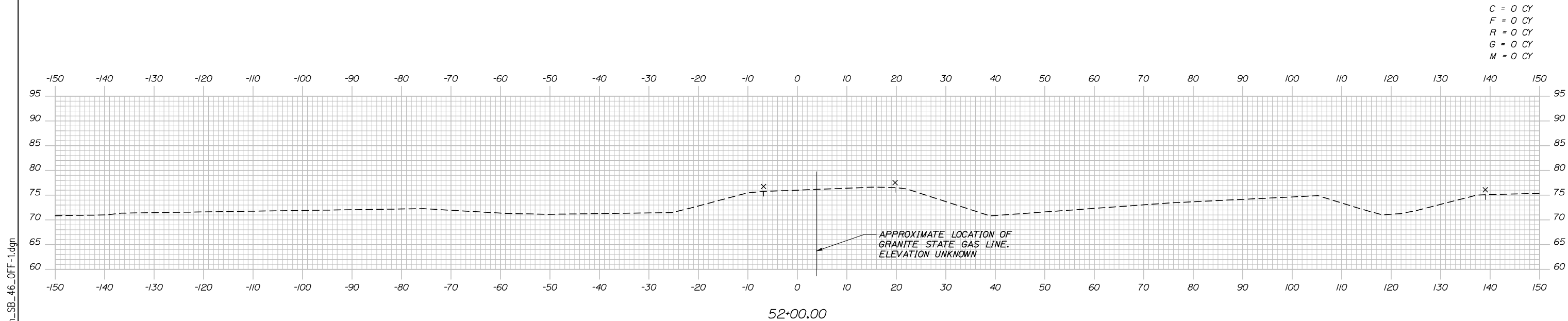
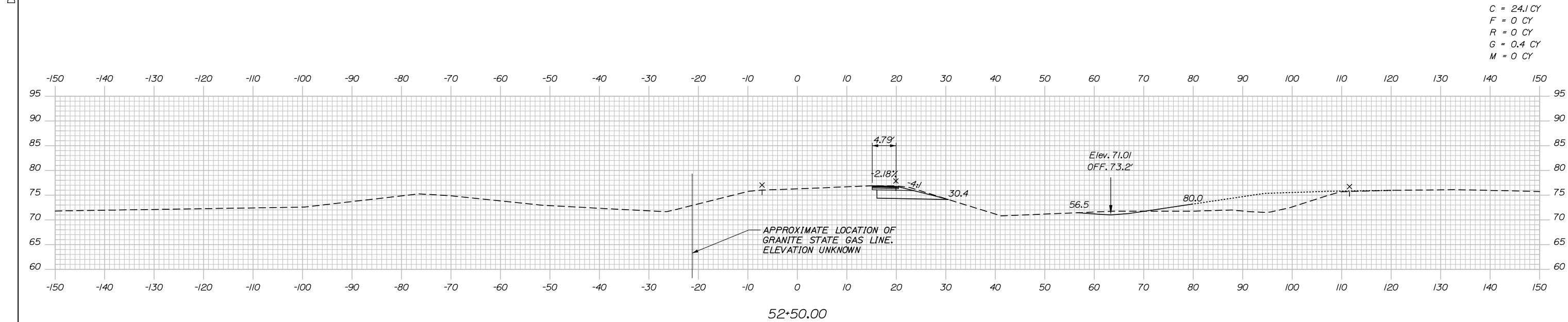
CONTRACT: 2021.08

SHEET NUMBER:

270 OF 376

Filename: PAW2_Cross_Section_NB_46_ON-6.dgn

Date: 9/8/2021



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 SB OFF CROSS SECTIONS
 STA. 52+00 TO STA. 52+50

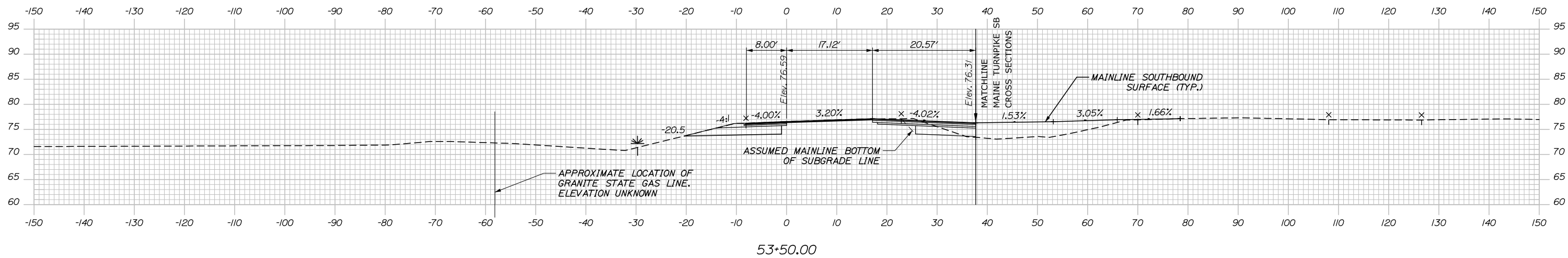
SHEET NUMBER:
 271 OF 376

CONTRACT: 2021.08

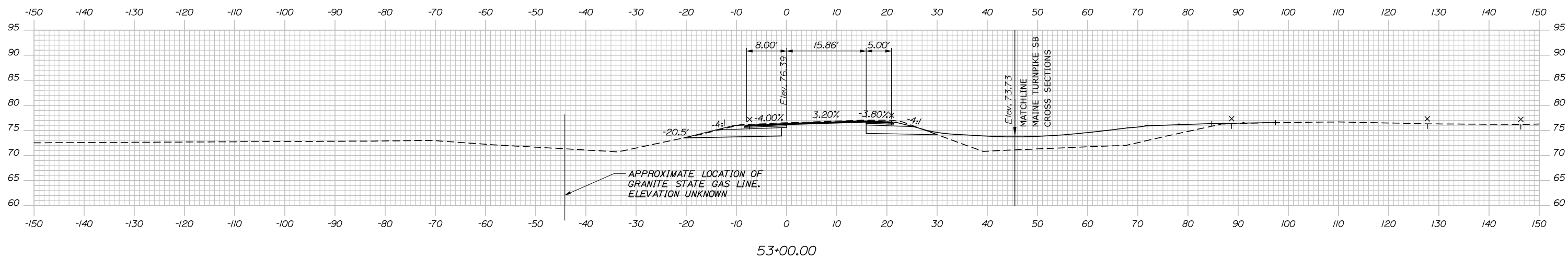
Filename: PAW2_Cross_Section_SB_46_OFF-1.dgn

Date: 9/8/2021

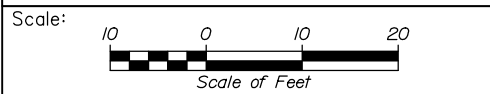
C = 121.8 CY
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 G = 3.0 CY
 M = 0 CY



C = 87.6 CY
 F = 0 CY
 R = 0 CY
 G = 1.4 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_46_OFF-2.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

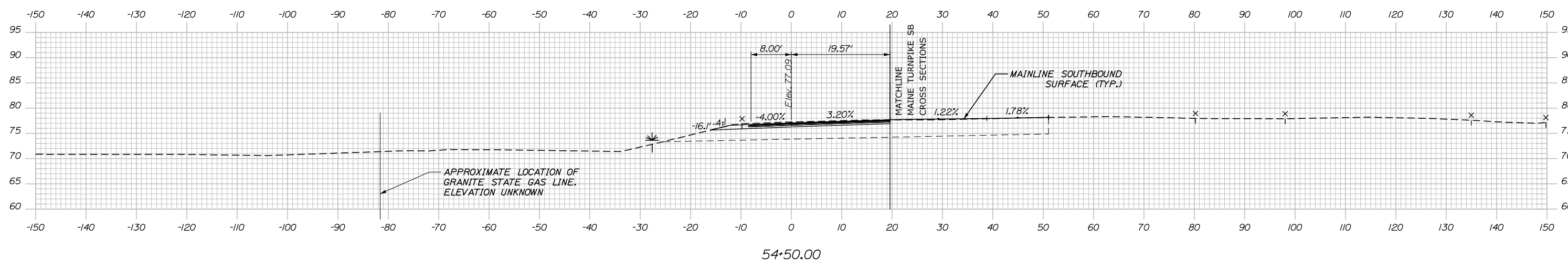
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 SB OFF CROSS SECTIONS
 STA. 53+00 TO STA. 53+50

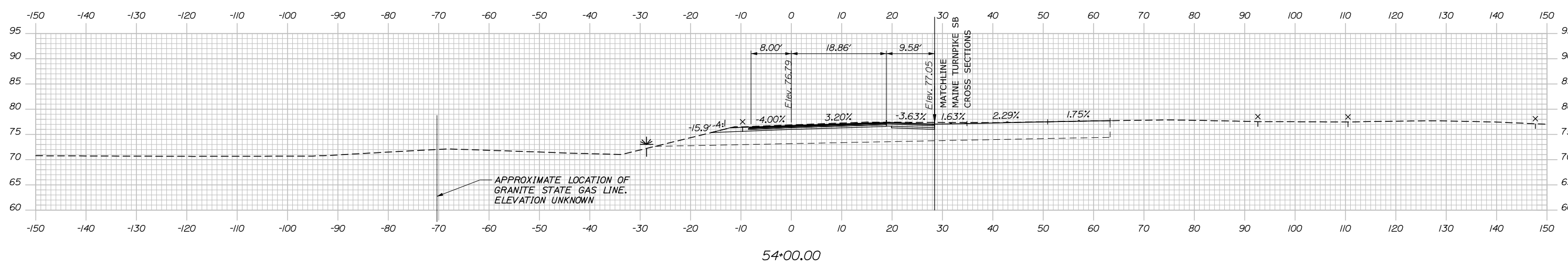
SHEET NUMBER:
 CONTRACT: 2021.08
 272 OF 376

Date: 9/8/2021

C = 68.0 CY
 F = 0 CY
 R = 0 CY
 G = 1.1 CY
 M = 0 CY



C = 97.7 CY
 F = 0 CY
 R = 0 CY
 G = 2.5 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_46_OFF_3.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

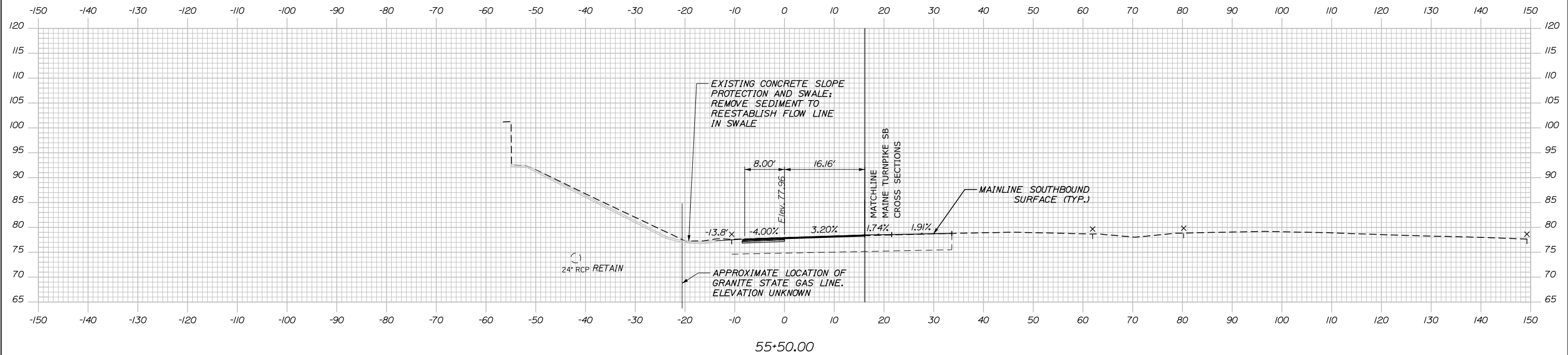
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 SB OFF CROSS SECTIONS
 STA. 54+00 TO STA. 54+50

SHEET NUMBER: 273 OF 376

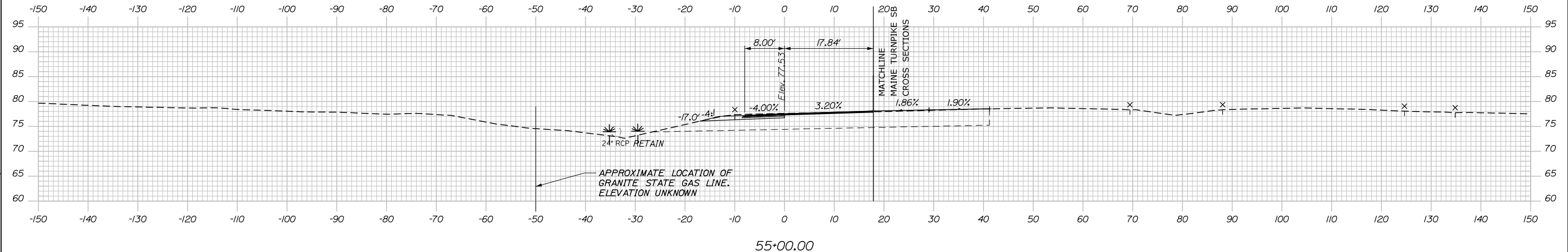
CONTRACT: 2021.08

Date: 9/8/2021

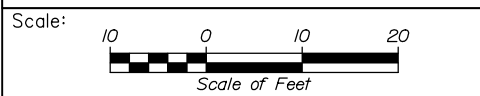
C = 26.2 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY



C = 45.0 CY
 F = 0 CY
 R = 0 CY
 G = 1.2 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_46_OFF-4.dgn



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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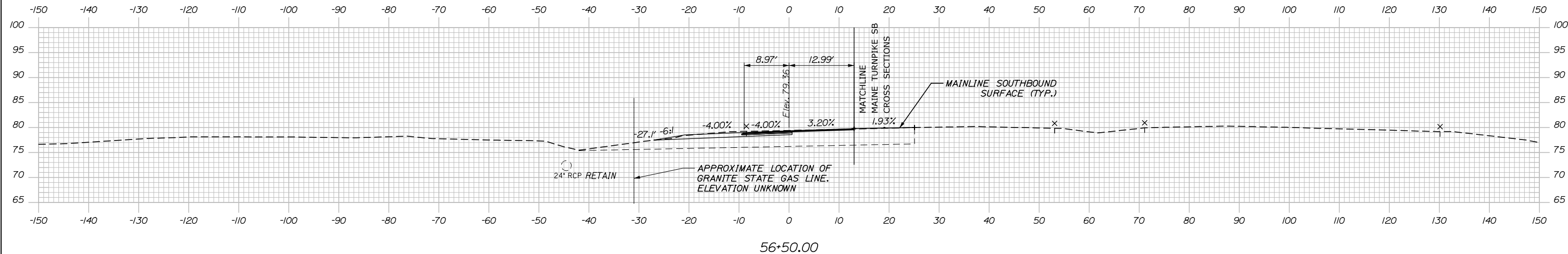
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 SB OFF CROSS SECTIONS
 STA. 55+00 TO STA. 55+50
 SHEET NUMBER:

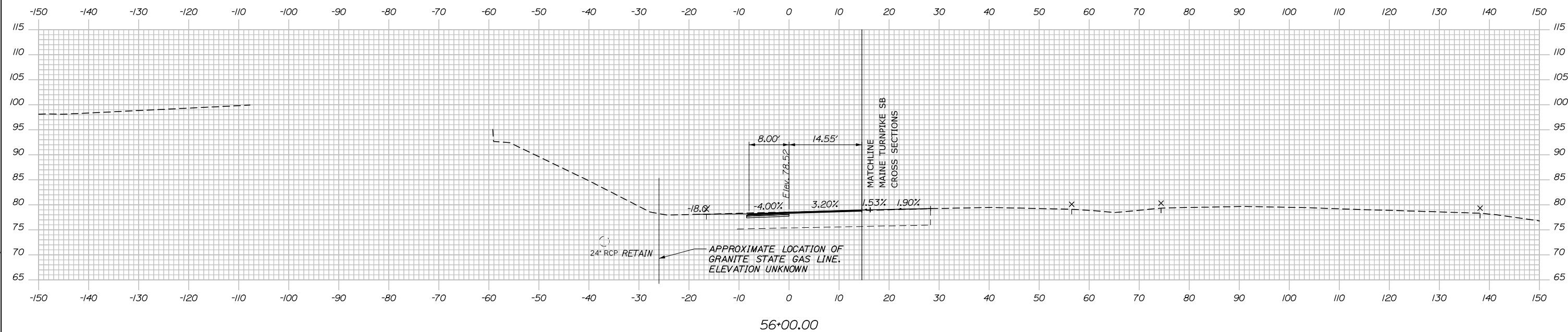
CONTRACT: 2021.08 274 OF 376

Date: 9/8/2021

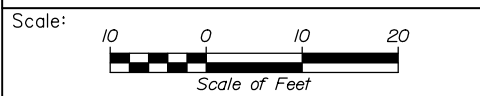
C = 35.6 CY
 F = 0 CY
 R = 0 CY
 G = 1.6 CY
 M = 0 CY



C = 23.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_46_OFF-5.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date	By	Date

Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

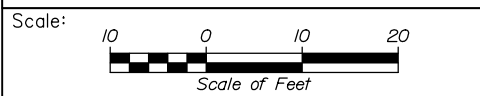
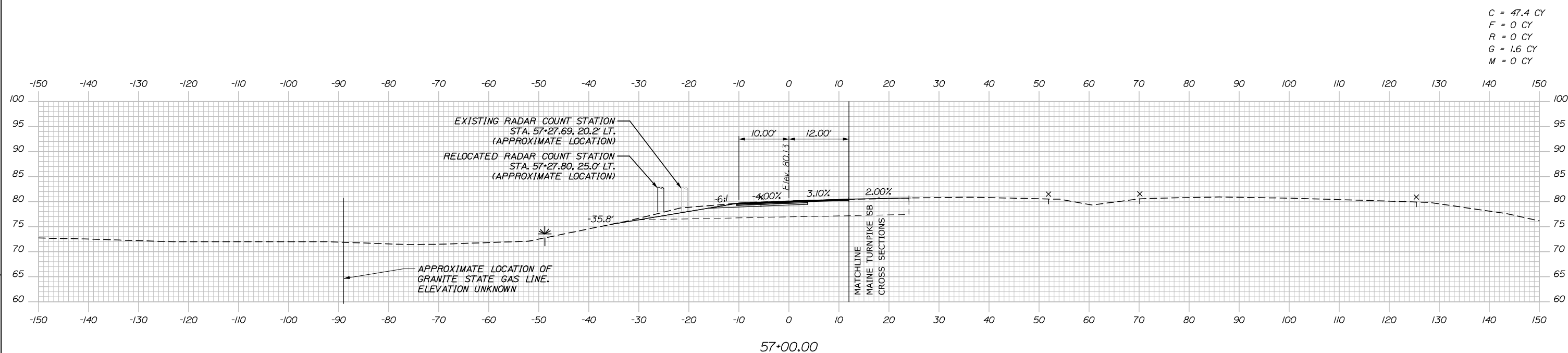
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 SB OFF CROSS SECTIONS
 STA. 56+00 TO STA. 56+50

SHEET NUMBER:
275 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Cross_Section_SB_46_OFF-6.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

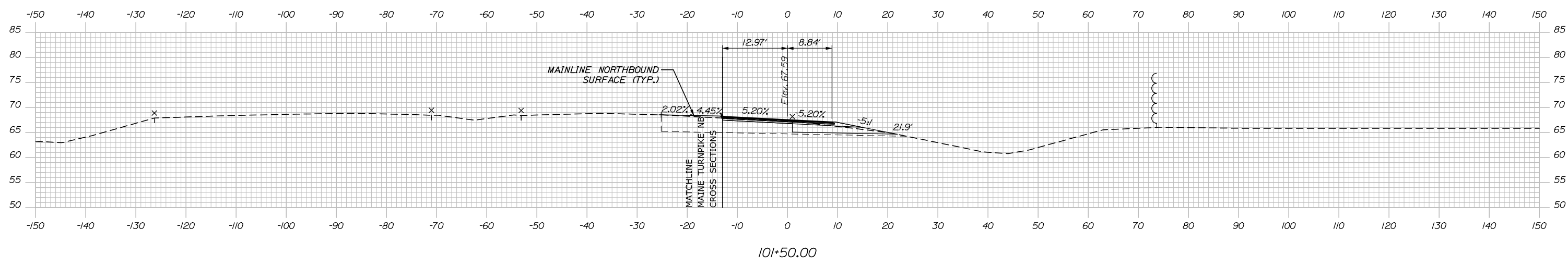
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 46 SB OFF CROSS SECTIONS
 STA. 57+00 TO STA. 57+00

SHEET NUMBER:
276 OF 376

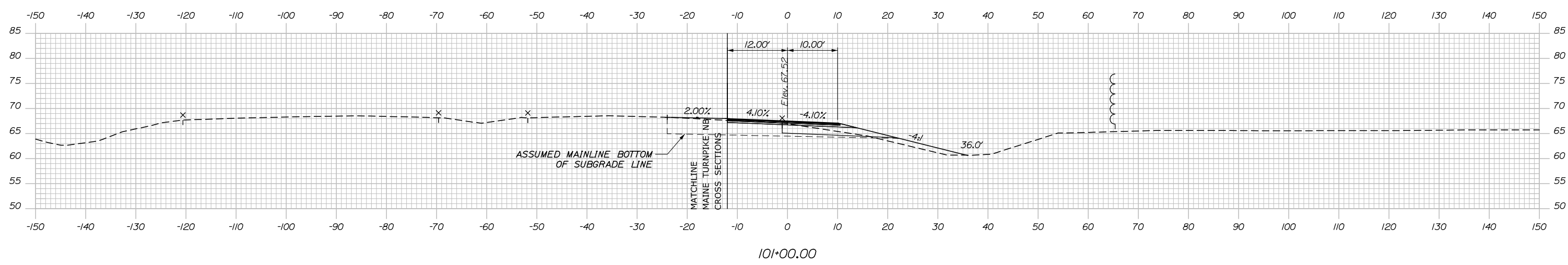
CONTRACT: 2021.08

Date: 9/8/2021

C = 47.8 CY
 F = 0 CY
 R = 0 CY
 G = 4.1 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_47_OFF-1.dgn

Scale:

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

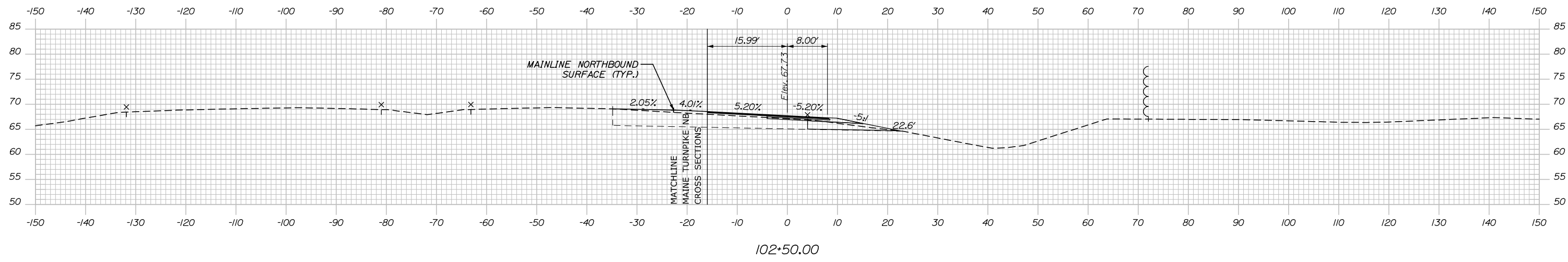
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB OFF CROSS SECTIONS
 STA. 101+00 TO STA. 101+50

SHEET NUMBER: 277 OF 376

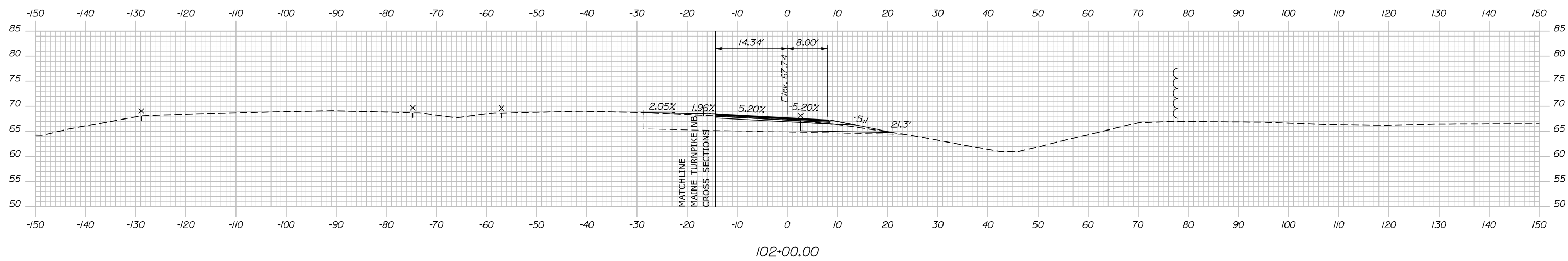
CONTRACT: 2021.08

Date: 9/8/2021

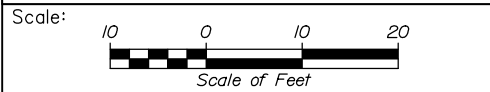
C = 41.1 CY
 F = 3.5 CY
 R = 0 CY
 G = 2.1 CY
 M = 0 CY



C = 51.5 CY
 F = 0 CY
 R = 0 CY
 G = 1.7 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_47_OFF-2.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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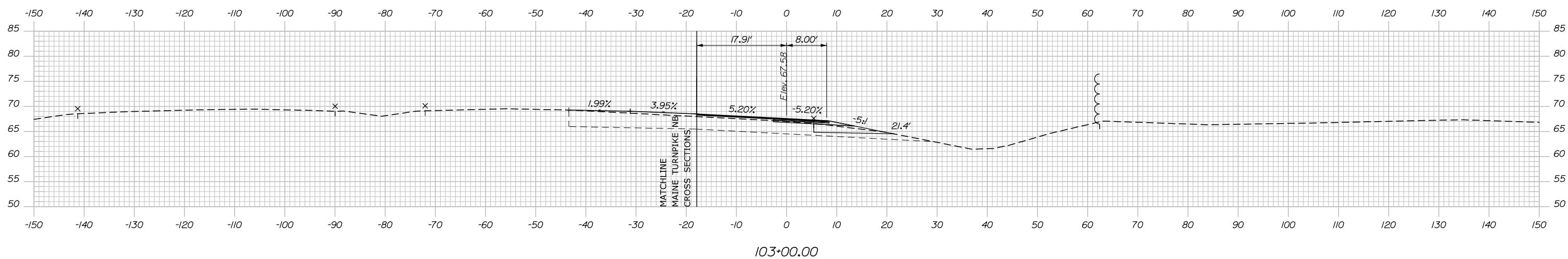
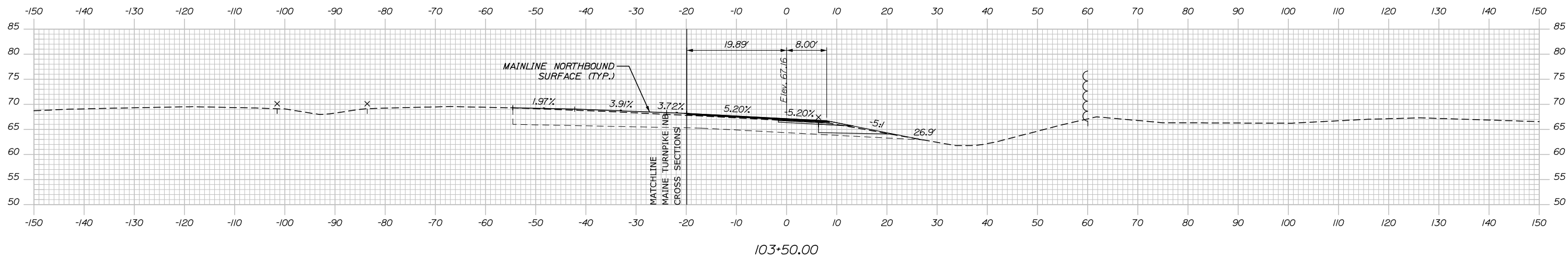
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

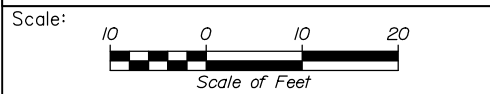
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB OFF CROSS SECTIONS
 STA. 102+00 TO STA. 102+50

SHEET NUMBER:
 CONTRACT: 2021.08
 278 OF 376

Date: 9/8/2021



Filename: PAW2_Cross_Section_NB_47_OFF-3.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21		PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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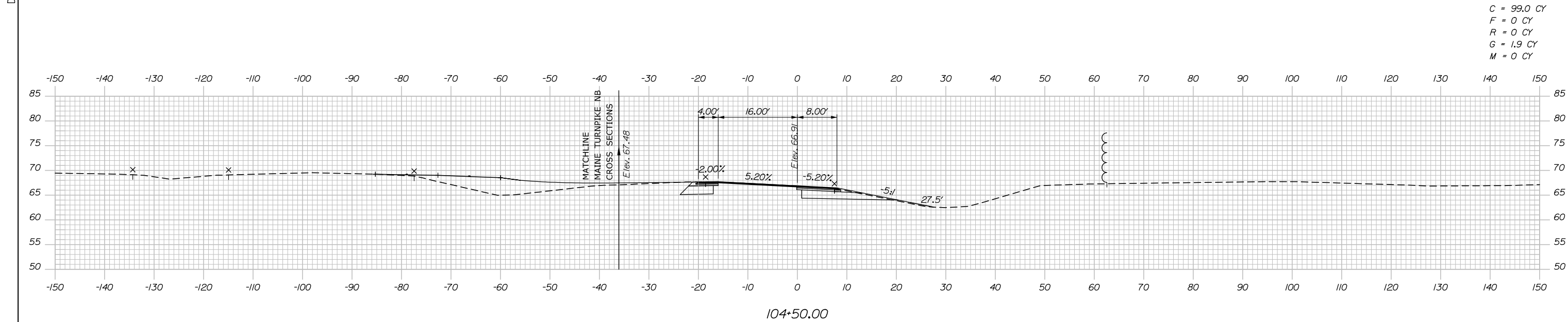
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
RAMP 47 NB OFF CROSS SECTIONS
STA. 103+00 TO STA. 103+50

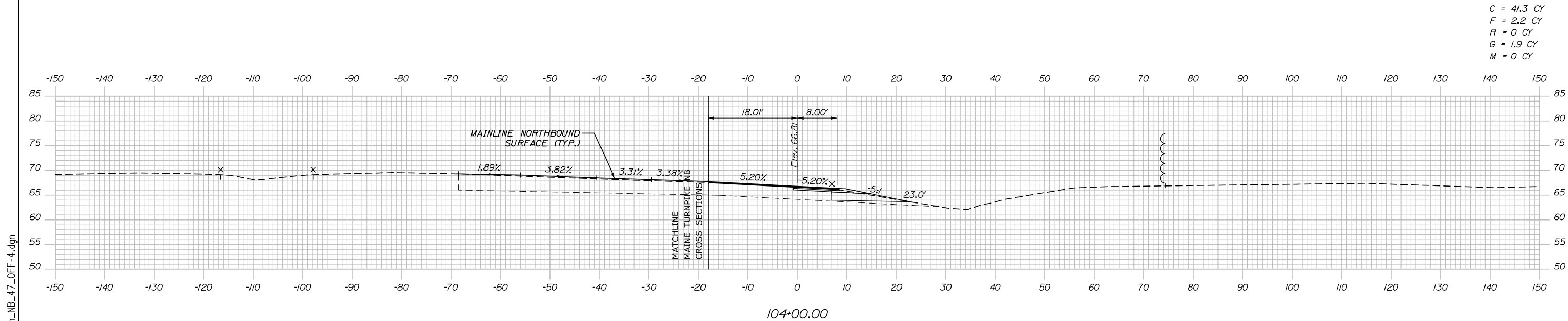
SHEET NUMBER:
CONTRACT: 2021.08

279 OF 376

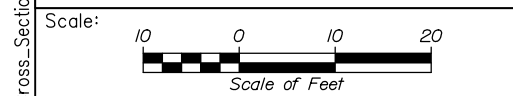
Date: 9/8/2021



C = 99.0 CY
 F = 0 CY
 R = 0 CY
 G = 1.9 CY
 M = 0 CY



C = 41.3 CY
 F = 2.2 CY
 R = 0 CY
 G = 1.9 CY
 M = 0 CY



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB OFF CROSS SECTIONS
 STA. 104+00 TO STA. 104+50

SHEET NUMBER:
 280 OF 376

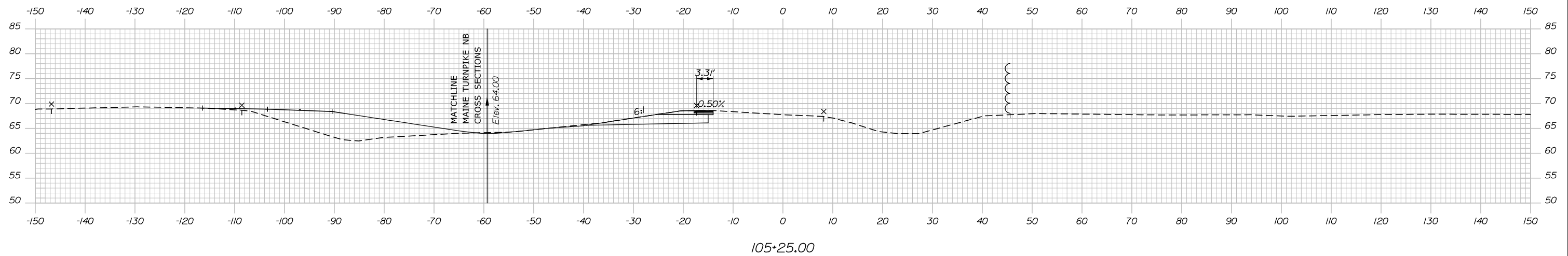
CONTRACT: 2021.08

Filename: PAW2_Cross_Section_NB_47_OFF-4.dgn

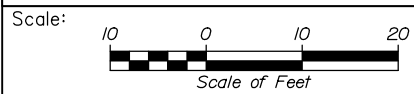
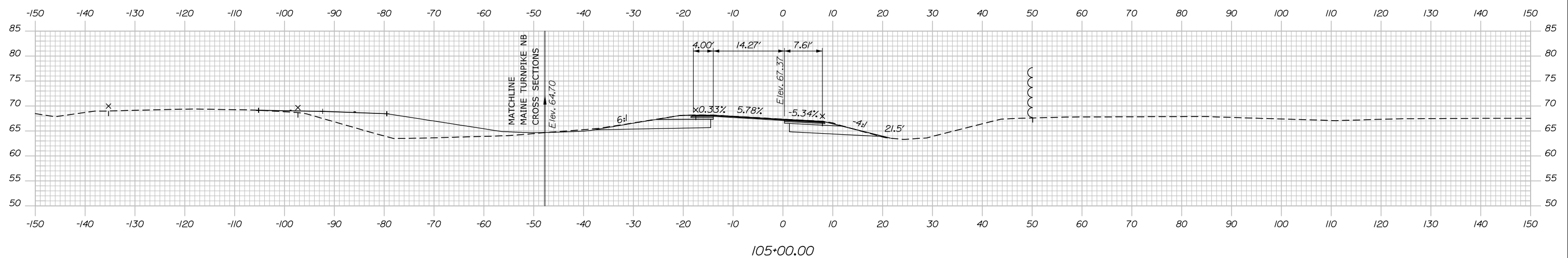
Date: 9/8/2021

Filename: PAW2_Cross_Section_NB_47_OFF-5.dgn

C = 58.1 CY
 F = 0 CY
 R = 0 CY
 G = 0.9 CY
 M = 0 CY



C = 152.9 CY
 F = 0 CY
 R = 0 CY
 G = 2.4 CY
 M = 0 CY



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THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB OFF CROSS SECTIONS
 STA. 105+00 TO STA. 105+25

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

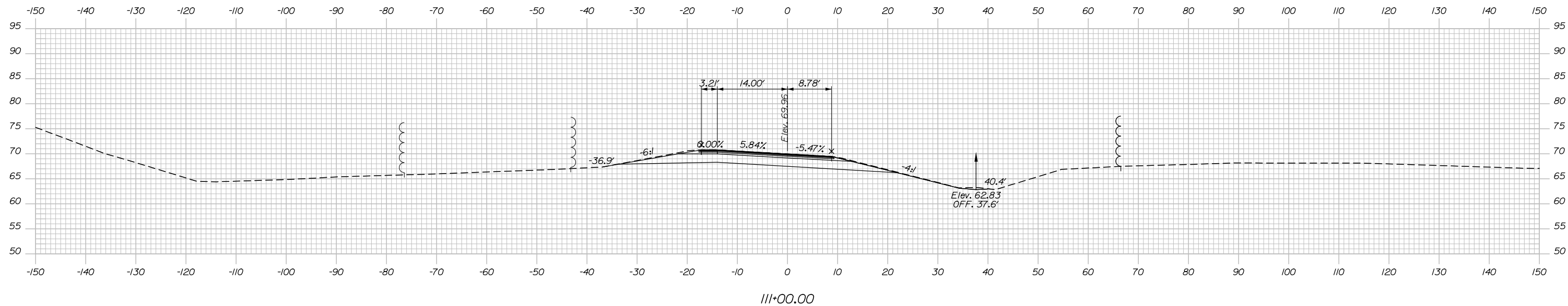
CONTRACT: 2021.08

SHEET NUMBER:

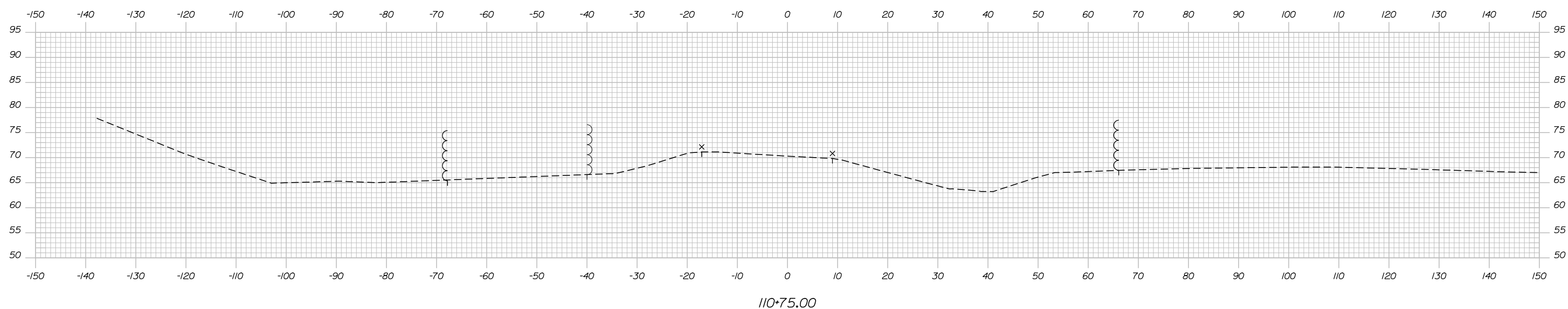
281 OF 376

Date: 9/8/2021

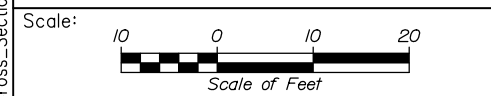
C = 50.2 CY
 F = 0 CY
 R = 0 CY
 G = 0.5 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_47_ON-1.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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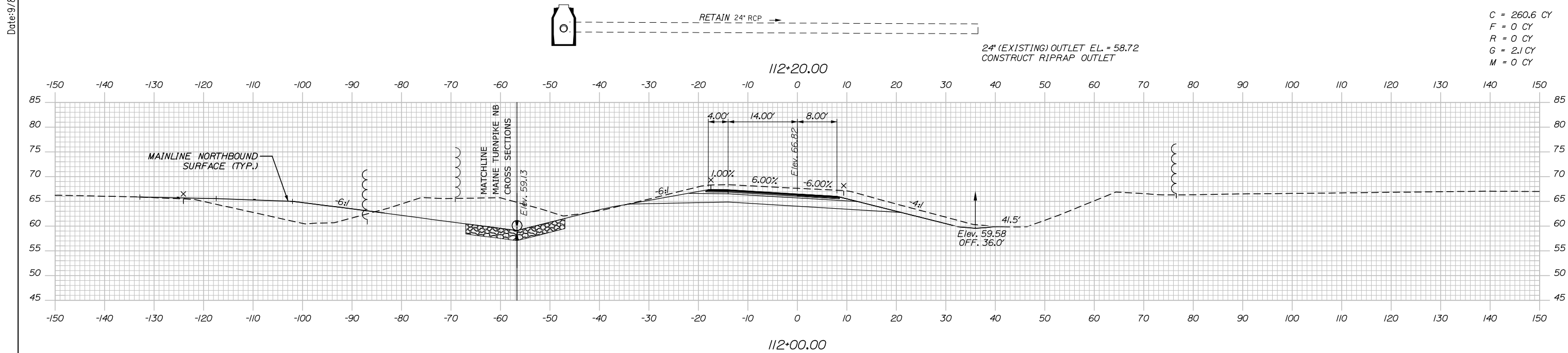
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

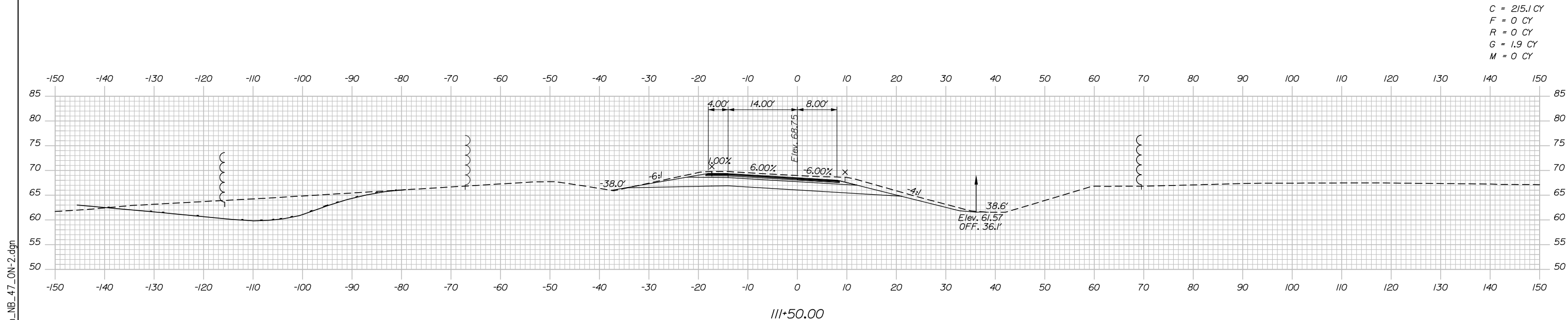
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB ON CROSS SECTIONS
 STA. 110+75 TO STA. 111+00

SHEET NUMBER:
 CONTRACT: 2021.08

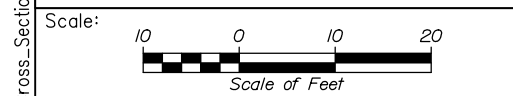
Date: 9/8/2021



C = 260.6 CY
F = 0 CY
R = 0 CY
G = 2.1 CY
M = 0 CY



C = 215.1 CY
F = 0 CY
R = 0 CY
G = 1.9 CY
M = 0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

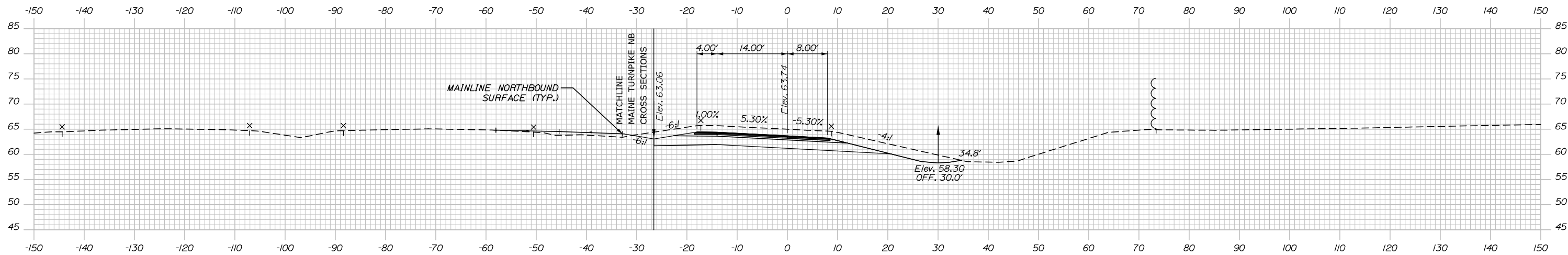
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
RAMP 47 NB ON CROSS SECTIONS
STA. 111+50 TO STA. 112+00

SHEET NUMBER:
CONTRACT: 2021.08
283 OF 376

Filename: PAW2_Cross_Section_NB_47_ON-2.dgn

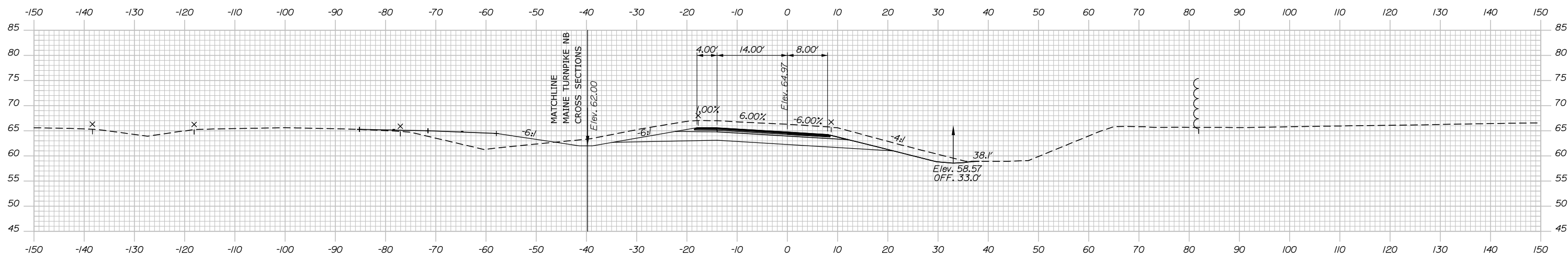
Date: 9/8/2021

C = 359.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

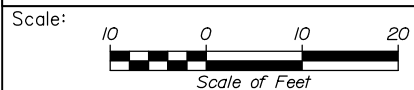


113+00.00

C = 335.9 CY
 F = 0 CY
 R = 0 CY
 G = 1.2 CY
 M = 0 CY



112+50.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB ON CROSS SECTIONS
 STA. 112+50 TO STA. 113+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	Designed	JS 09\21	Checked	PJS 09\21	
	Drawn	GW 09\21	In Charge of	TRC 09\21	

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

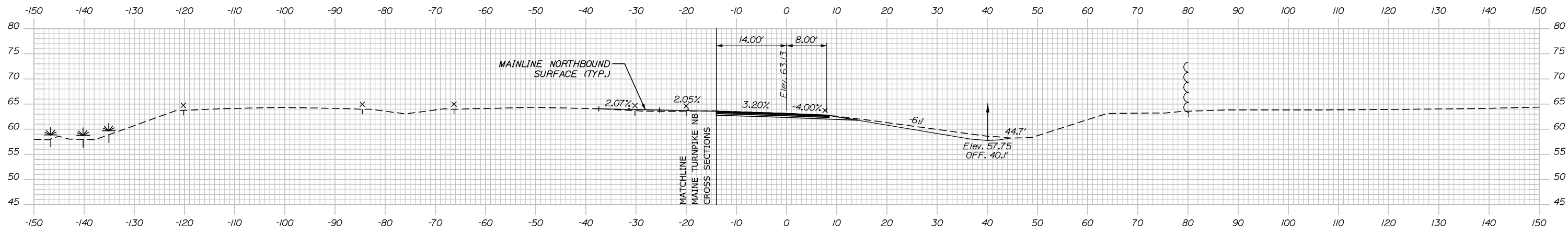
SHEET NUMBER:

284 OF 376

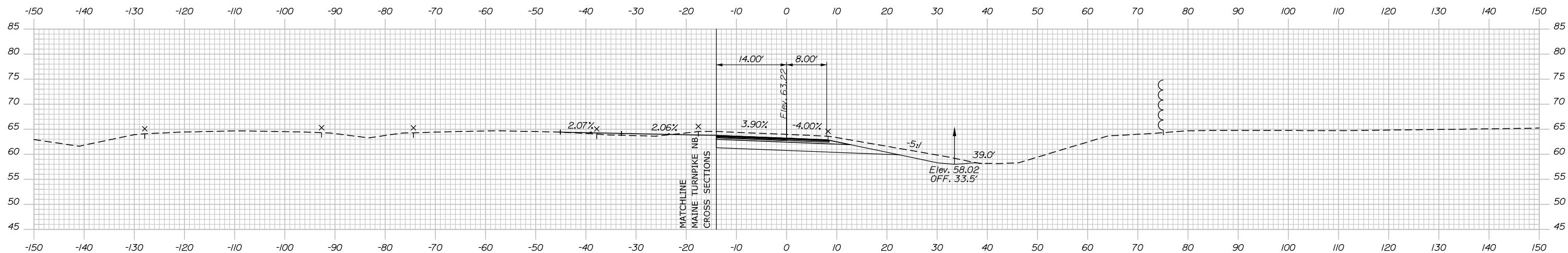
Filename: PAW2_Cross_Section_NB_47_ON-3.dgn

Date: 9/8/2021

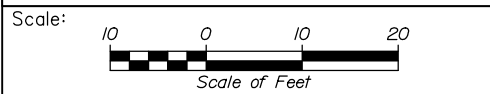
C = 202.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 281.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_47_ON-4.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

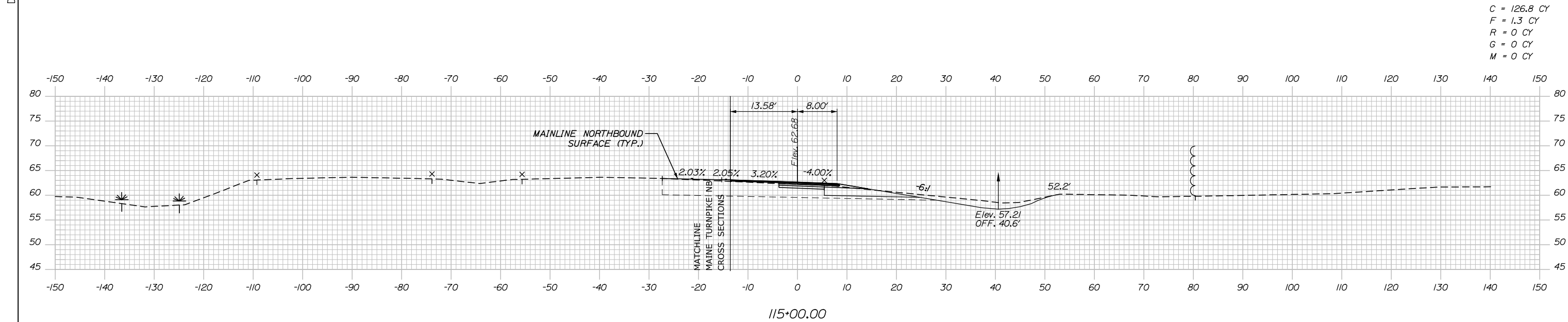
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB ON CROSS SECTIONS
 STA. 113+50 TO STA. 114+00

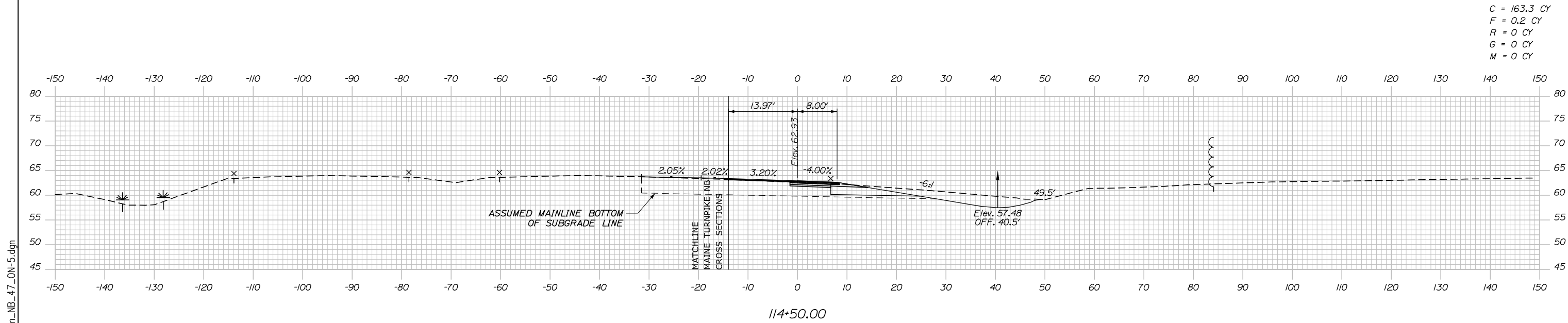
SHEET NUMBER:
 285 OF 376

CONTRACT: 2021.08

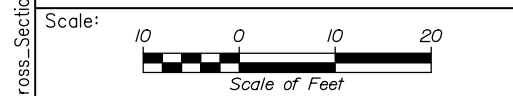
Date: 9/8/2021



C = 126.8 CY
 F = 1.3 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 163.3 CY
 F = 0.2 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

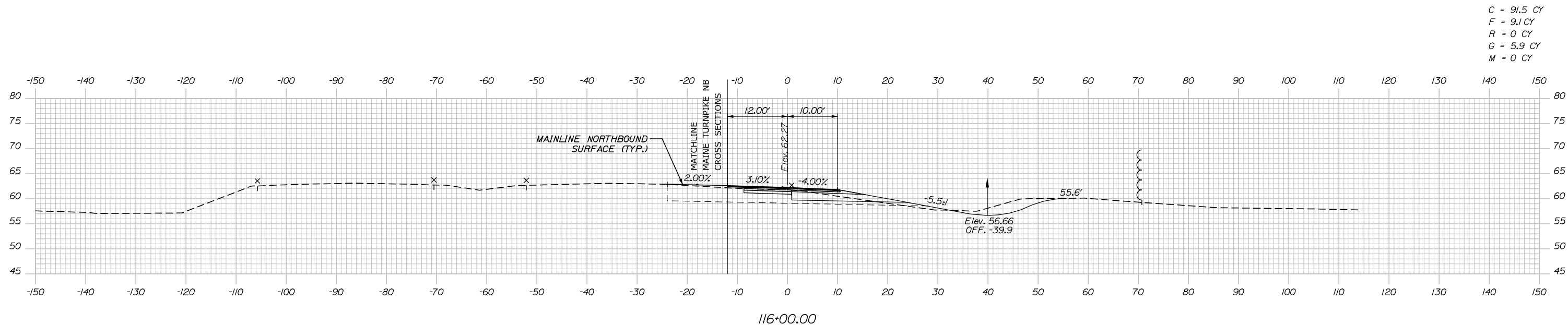
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB ON CROSS SECTIONS
 STA. 114+50 TO STA. 115+00

SHEET NUMBER:
 CONTRACT: 2021.08
 286 OF 376

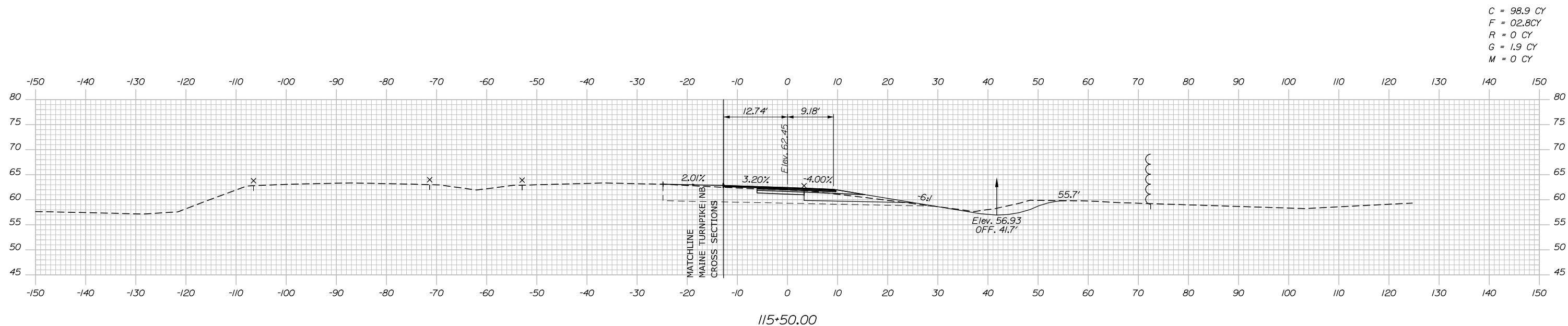
Filename: PAW2_Cross_Section_NB_47_ON-5.dgn

Date: 9/8/2021

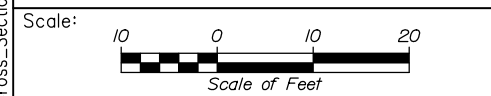
Filename: PAW2_Cross_Section_NB_47_ON-6.dgn



C = 91.5 CY
 F = 9.1 CY
 R = 0 CY
 G = 5.9 CY
 M = 0 CY



C = 98.9 CY
 F = 02.8CY
 R = 0 CY
 G = 1.9 CY
 M = 0 CY



Designed by:


HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

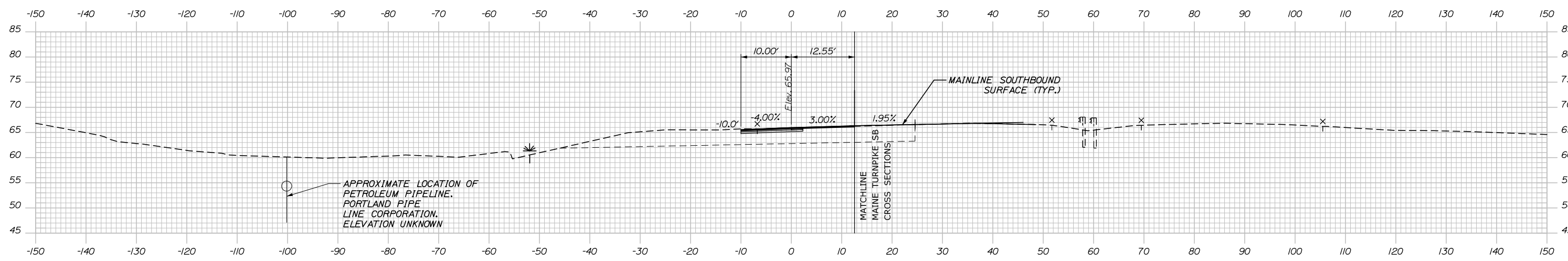
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 NB ON CROSS SECTIONS
 STA. 115+50 TO STA. 116+00

SHEET NUMBER:
 287 OF 376

CONTRACT: 2021.08

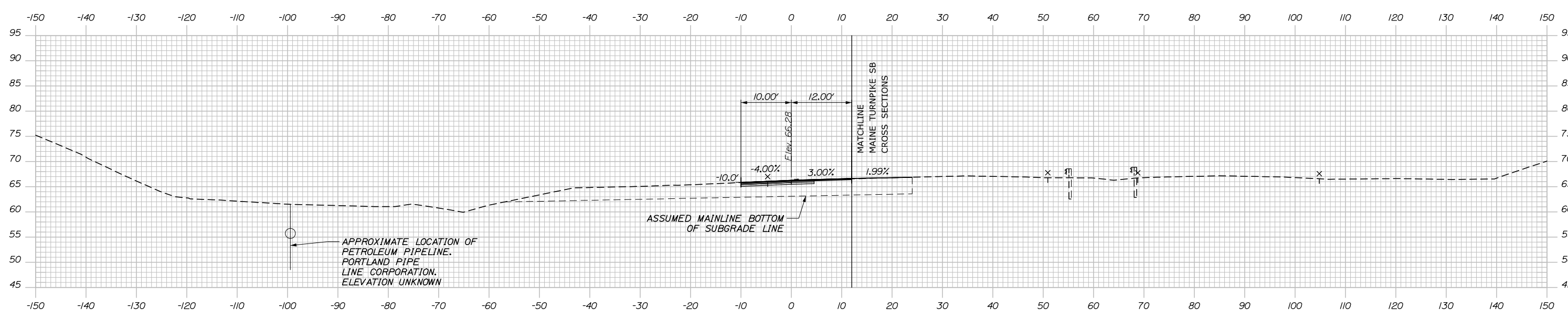
Date: 9/8/2021

C = 21.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

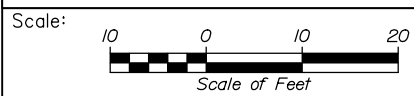


82+50.00

C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



82+00.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

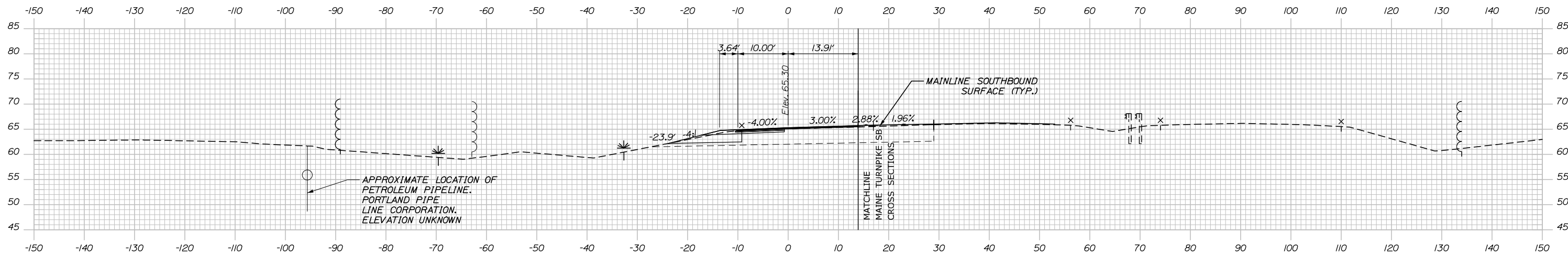
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB ON CROSS SECTIONS
 STA. 82+00 TO STA. 82+50

SHEET NUMBER:
 CONTRACT: 2021.08
 288 OF 376

Filename: PAW2_Cross_Section_SB_47_ON-1.dgn

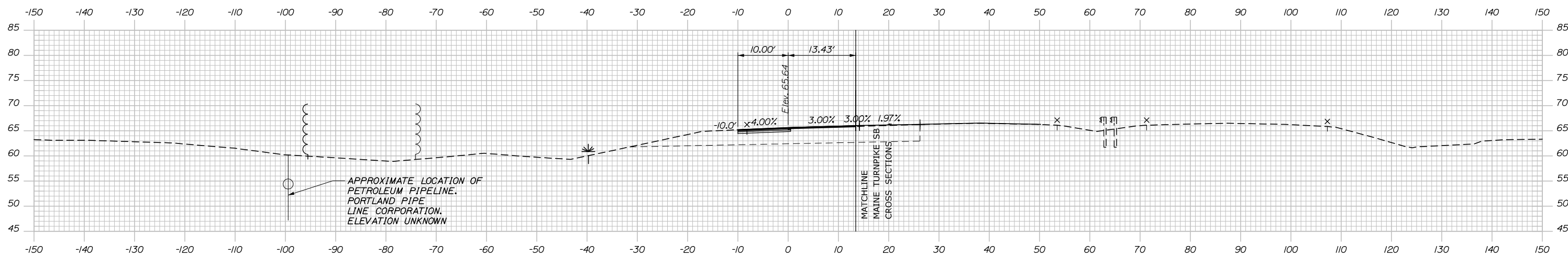
Date: 9/8/2021

C = 30.0 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY

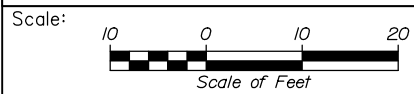


83+50.00

C = 18.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



83+00.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB ON CROSS SECTIONS
 STA. 83+00 TO STA. 83+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	JS	09\21	Checked
Drawn	GW	09\21	In Charge of
			TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

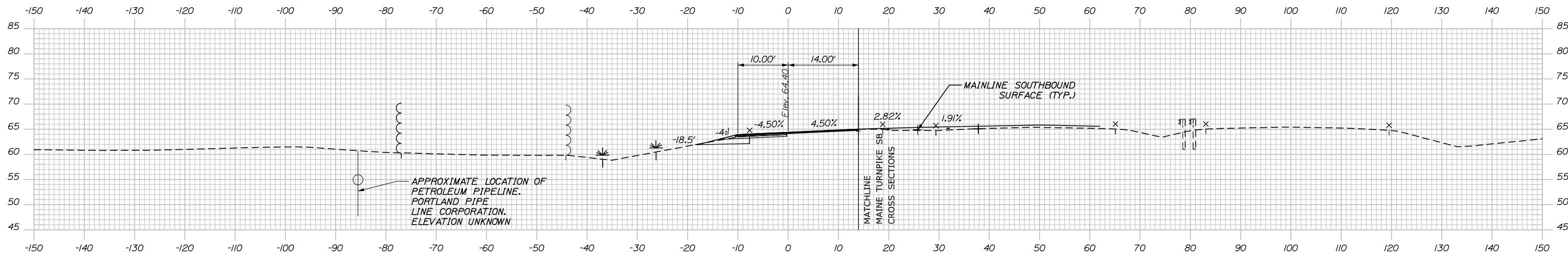
SHEET NUMBER:

289 OF 376

Filename: PAW2_Cross_Section_SB_47_ON-2.dgn

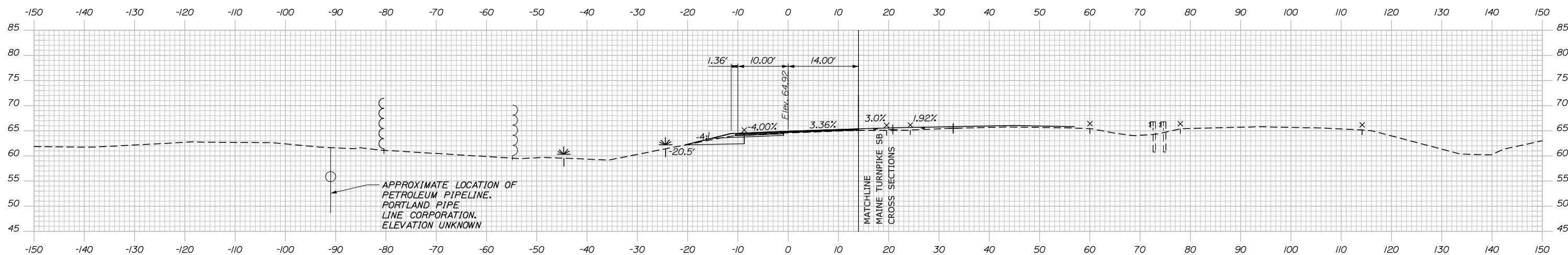
Date: 9/8/2021

C = 29.4 CY
 F = 0 CY
 R = 0 CY
 G = 1.3 CY
 M = 0 CY

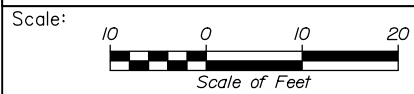


84+50.00

C = 35.7 CY
 F = 0 CY
 R = 0 CY
 G = 1.3 CY
 M = 0 CY



84+00.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB ON CROSS SECTIONS
 STA. 84+00 TO STA. 84+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By	Date	Checked
	JS	09\21	PJS
Drawn	By	Date	In Charge of
	GW	09\21	TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

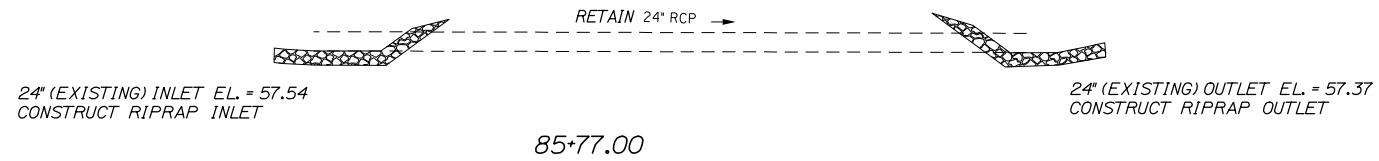
CONTRACT: 2021.08

SHEET NUMBER:

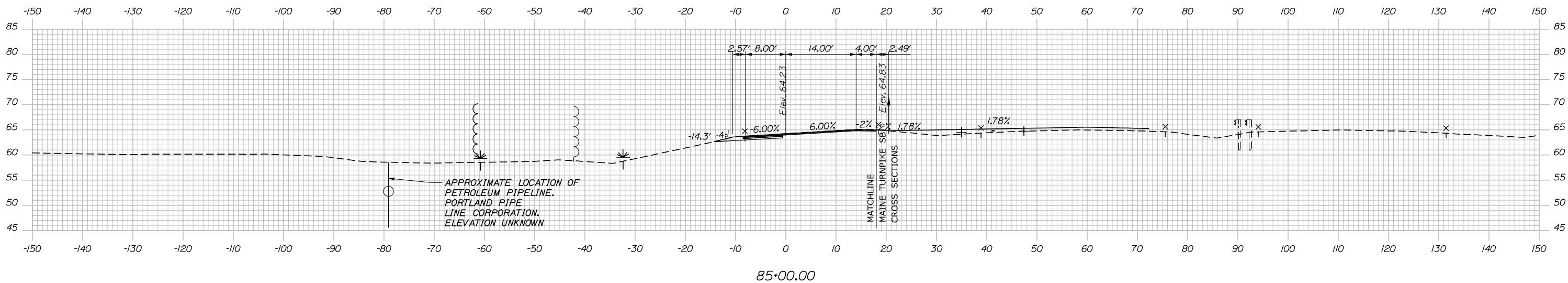
290 OF 376

Filename: PAW2_Cross_Section_SB_47_ON-3.dgn

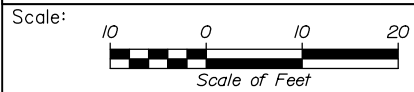
Date: 9/8/2021



C = 29.0 CY
 F = 0 CY
 R = 0 CY
 G = 1.3 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_47_ON-4.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB ON CROSS SECTIONS
 STA. 85+00 TO STA. 85+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

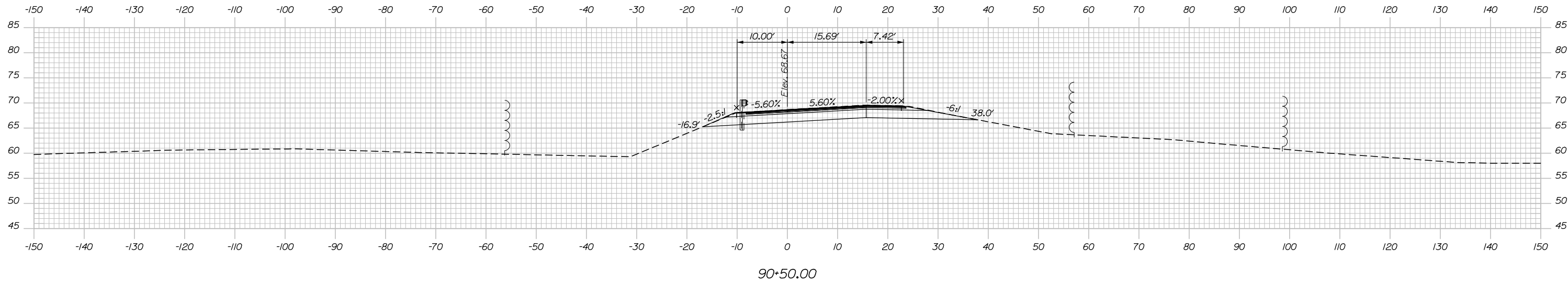
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

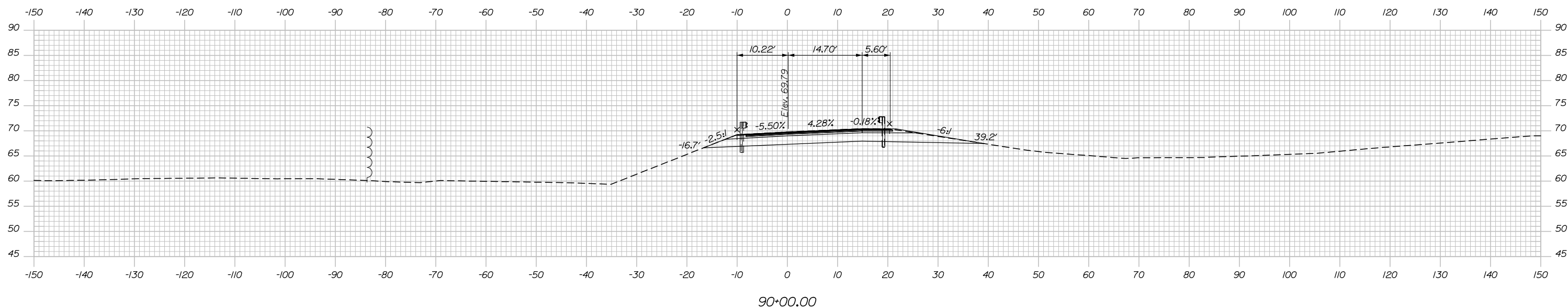
SHEET NUMBER: 291 OF 376

Date: 9/8/2021

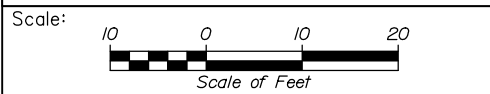
C = 199.8 CY
 F = 0 CY
 R = 0 CY
 G = 2.1 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_47_OFF-1.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB OFF CROSS SECTIONS
 STA. 90+00 TO STA. 90+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By	Date	Checked
	JS	09\21	PJS
Drawn	By	Date	In Charge of
	GW	09\21	TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

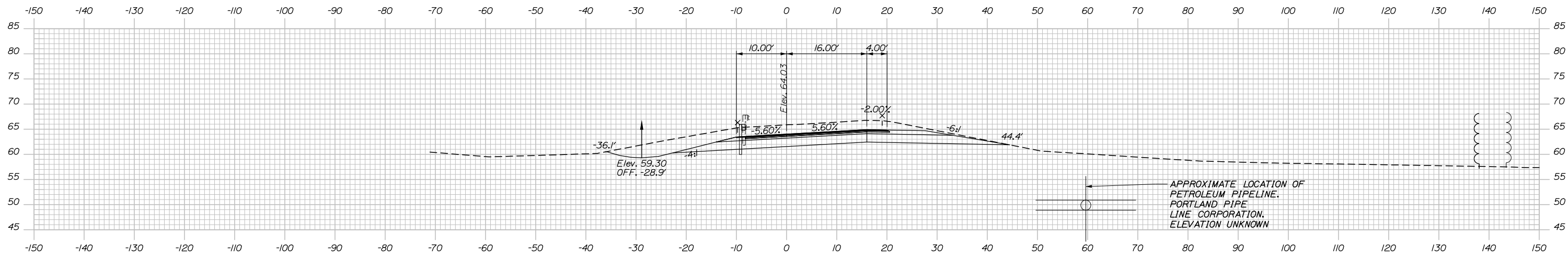
CONTRACT: 2021.08

SHEET NUMBER:

292 OF 376

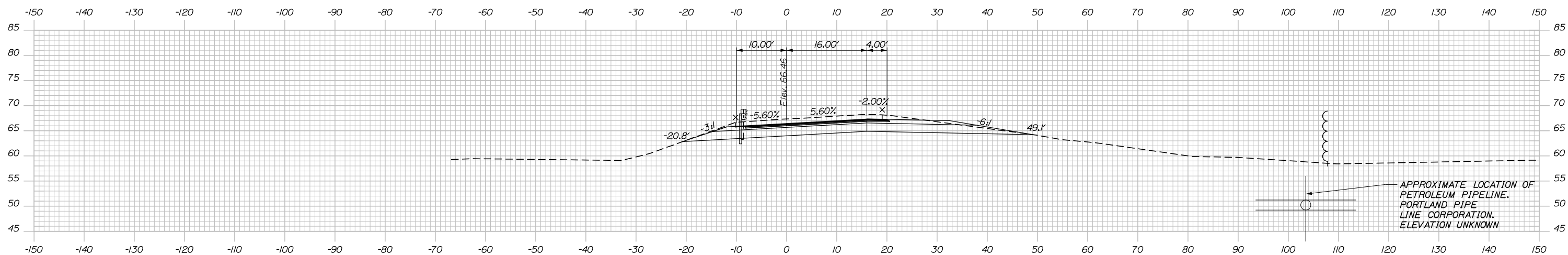
Date: 9/8/2021

C = 387.9 CY
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 M = 0 CY



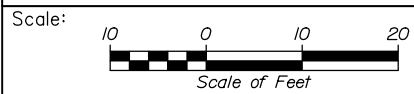
91+50.00

C = 255.4 CY
 F = 0 CY
 R = 0 CY
 G = 2.3 CY
 M = 0 CY



91+00.00

Filename: PAW2_Cross_Section_SB_47_OFF-2.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB OFF CROSS SECTIONS
 STA. 91+00 TO STA. 91+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS
Drawn	By GW	Date 09\21	In Charge of TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

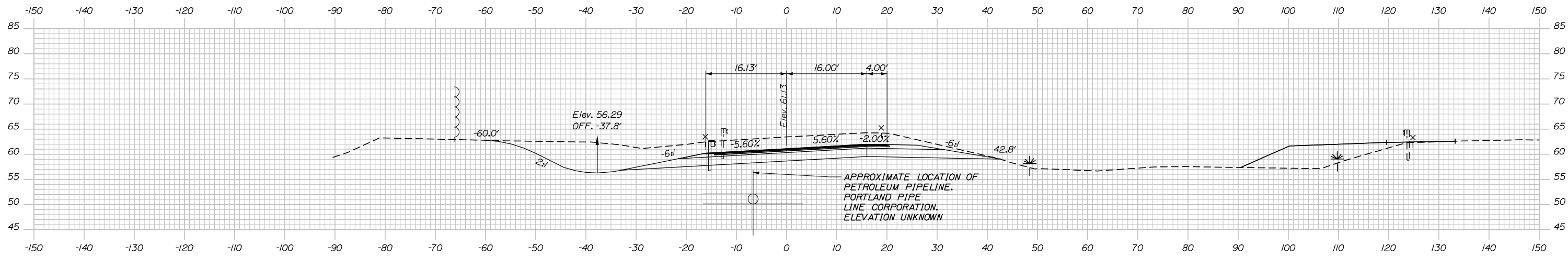
CONTRACT: 2021.08

SHEET NUMBER:

293 OF 376

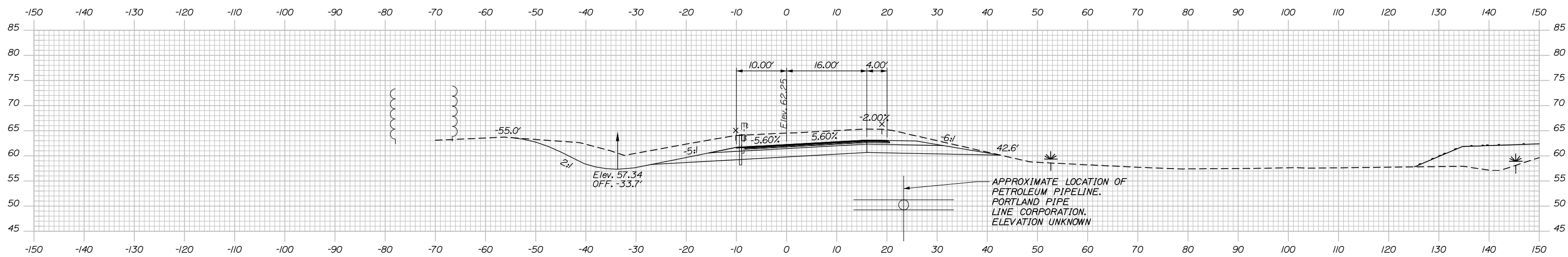
Date: 9/8/2021

C = 666.6 CY
 F = 0 CY
 R = 0 CY
 G = 1.0 CY
 M = 0 CY

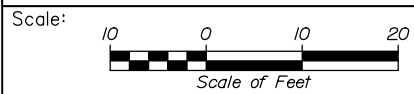


92+50.00

C = 535.6 CY
 F = 0 CY
 R = 0 CY
 G = 1.2 CY
 M = 0 CY



92+00.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB OFF CROSS SECTIONS
 STA. 92+00 TO STA. 92+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

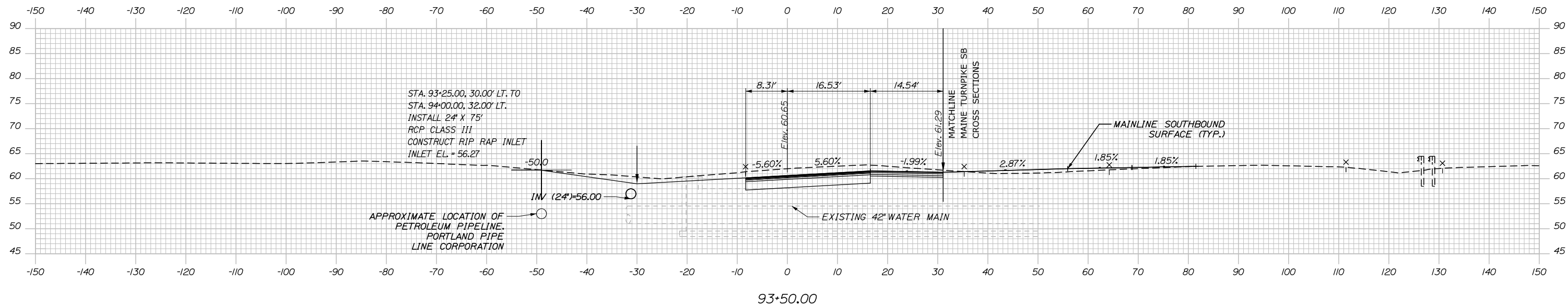
CONTRACT: 2021.08

294 OF 376

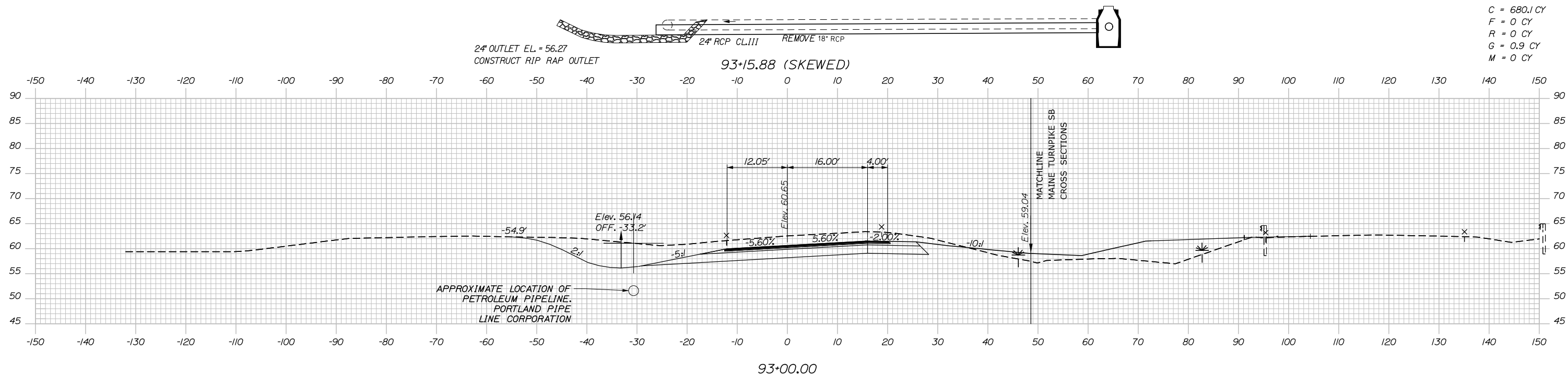
Filename: PAW2_Cross_Section_SB_47_OFF-3.dgn

Date: 9/8/2021

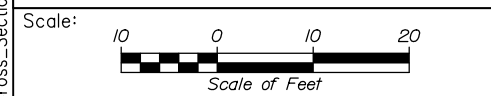
C = 457.1 CY
 F = 0 CY
 R = 0 CY
 G = 0.5 CY
 M = 0 CY



C = 680.1 CY
 F = 0 CY
 R = 0 CY
 G = 0.9 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_47_OFF-4.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

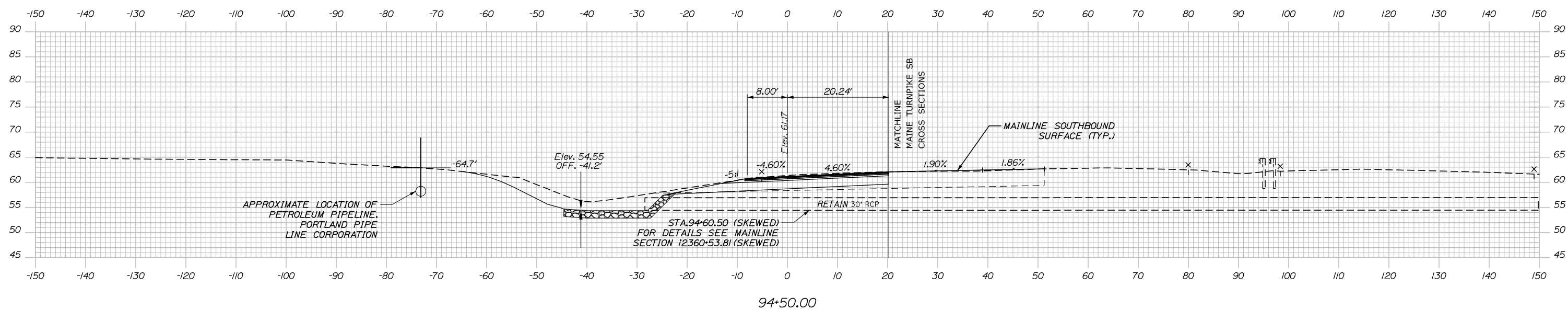
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB OFF CROSS SECTIONS
 STA. 93+00 TO STA. 93+50

SHEET NUMBER:
 295 OF 376

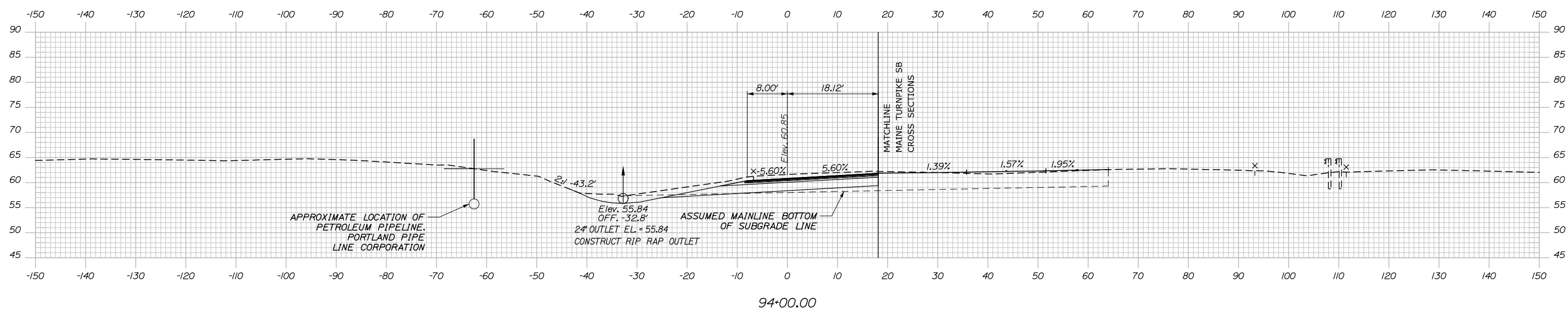
CONTRACT: 2021.08

Date: 9/8/2021

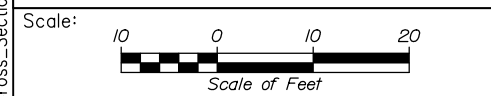
C = 278.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 272.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_47_OFF-5.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

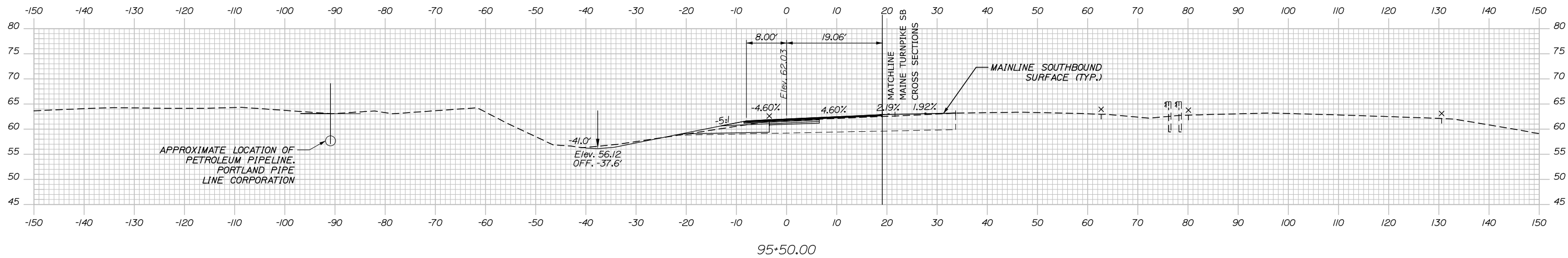
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
RAMP 47 SB OFF CROSS SECTIONS
STA. 94+00 TO STA. 94+50

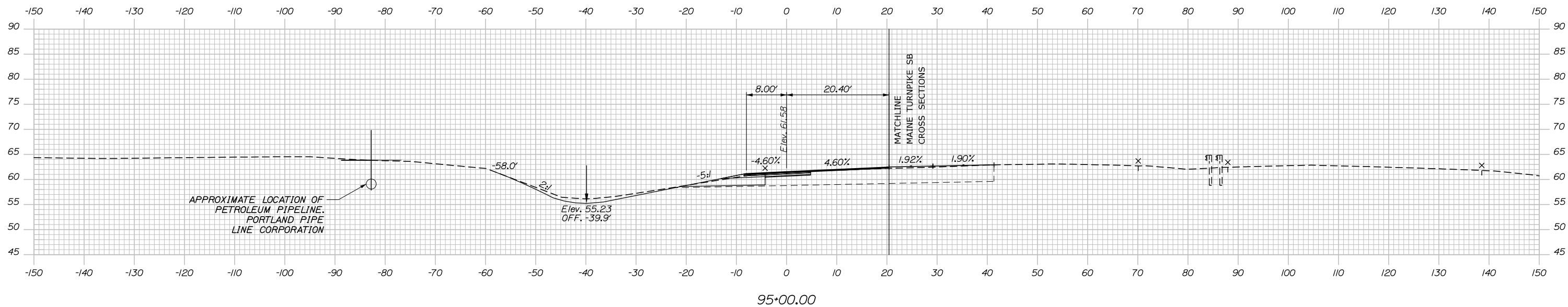
SHEET NUMBER:
CONTRACT: 2021.08
296 OF 376

Date: 9/8/2021

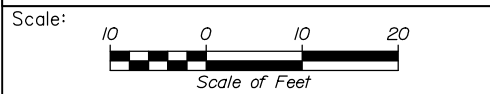
C = 71.2 CY
 F = 0.4 CY
 R = 0 CY
 G = 2.1 CY
 M = 0 CY



C = 191.3 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_47_OFF-6.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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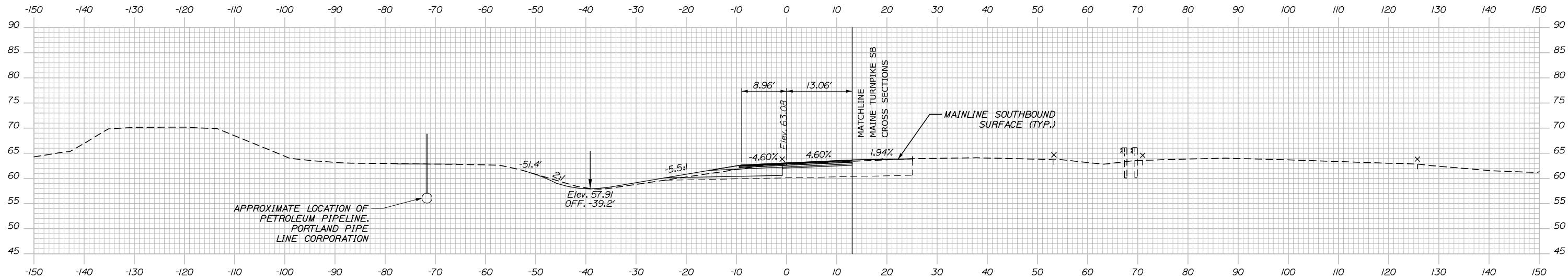
**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB OFF CROSS SECTIONS
 STA. 95+00 TO STA. 95+50
 SHEET NUMBER:
 CONTRACT: 2021.08
 297 OF 376

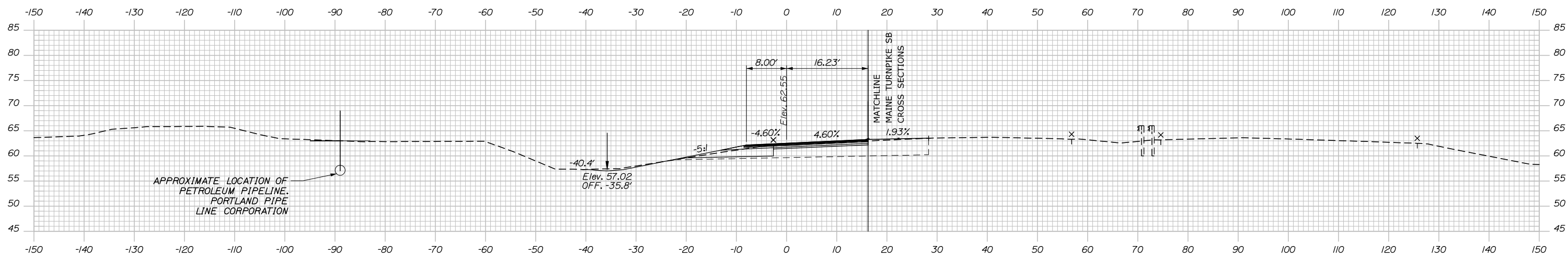
Date: 9/8/2021

C = 72.0 CY
 F = 5.2 CY
 R = 0 CY
 G = 3.9 CY
 M = 0 CY



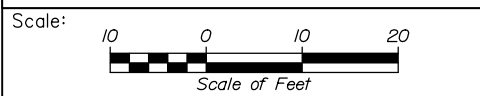
96+50.00

C = 63.4 CY
 F = 0.6 CY
 R = 0 CY
 G = 2.8 CY
 M = 0 CY



96+00.00

Filename: PAW2_Cross_Section_SB_47_OFF-7.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

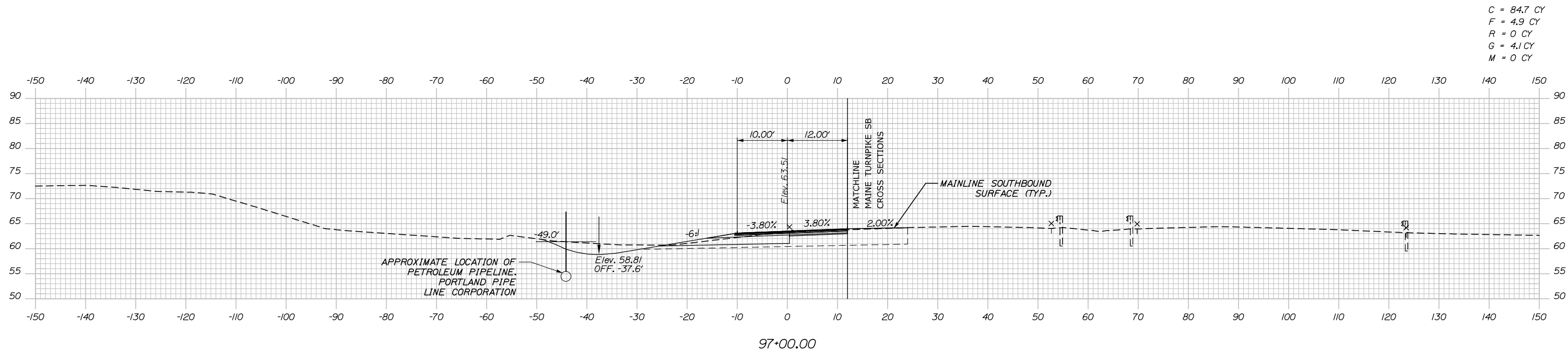
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 47 SB OFF CROSS SECTIONS
 STA. 96+00 TO STA. 96+50

SHEET NUMBER:
 298 OF 376

CONTRACT: 2021.08

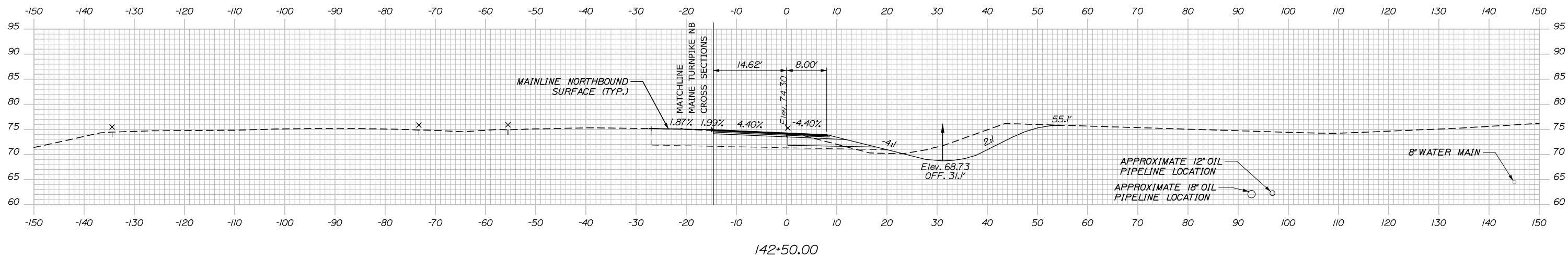
Date: 9/8/2021

Filename: PAW2_Cross_Section_SB_47_OFF-8.dgn

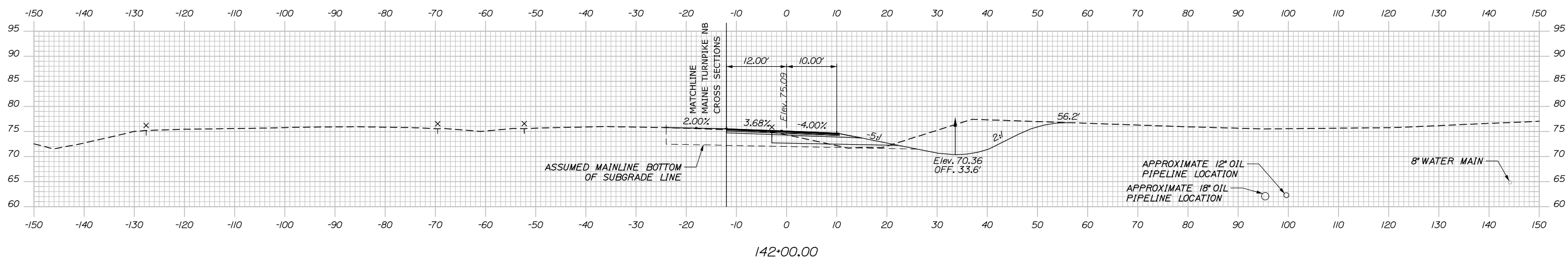


Date: 9/8/2021

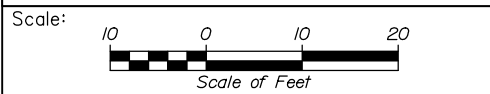
C = 27.3 CY
 F = 12.5 CY
 R = 0 CY
 G = 9.9 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_4B_OFF-1.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

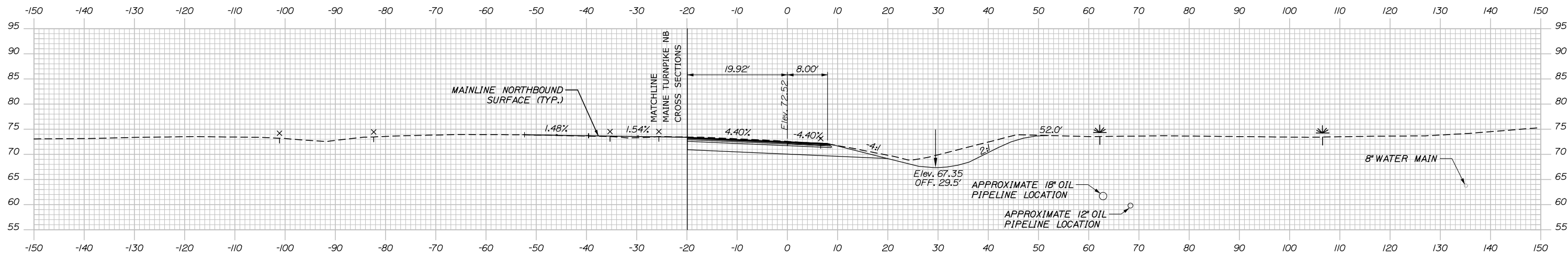
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB OFF CROSS SECTIONS
 STA. 142+00 TO STA. 142+50

SHEET NUMBER:
 300 OF 376

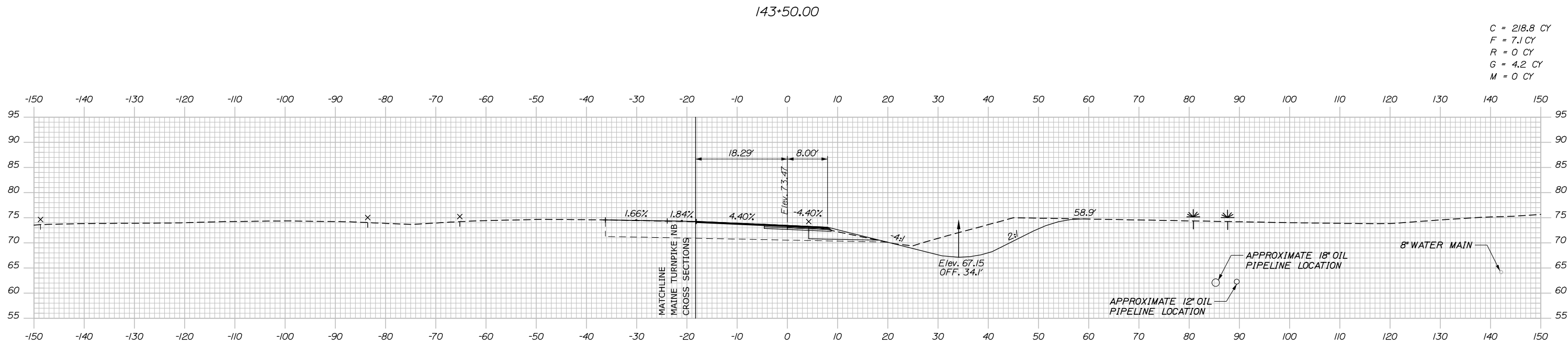
CONTRACT: 2021.08

Date: 9/8/2021

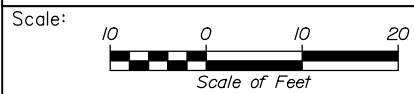
C = 255.8 CY
 F = 0 CY
 R = 0 CY
 G = 0.8 CY
 M = 0 CY



C = 218.8 CY
 F = 7.1 CY
 R = 0 CY
 G = 4.2 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_4B_OFF-2.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

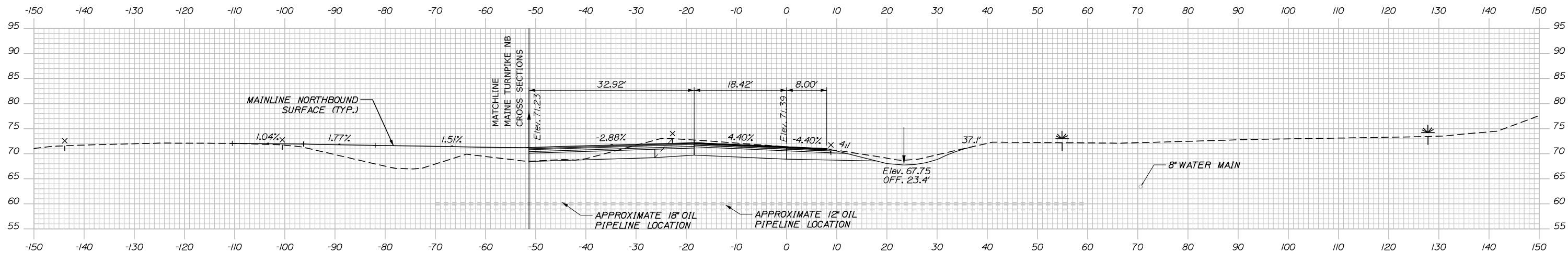
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB OFF CROSS SECTIONS
 STA. 143+00 TO STA. 143+50

SHEET NUMBER:
 CONTRACT: 2021.08
 301 OF 376

Date: 9/8/2021

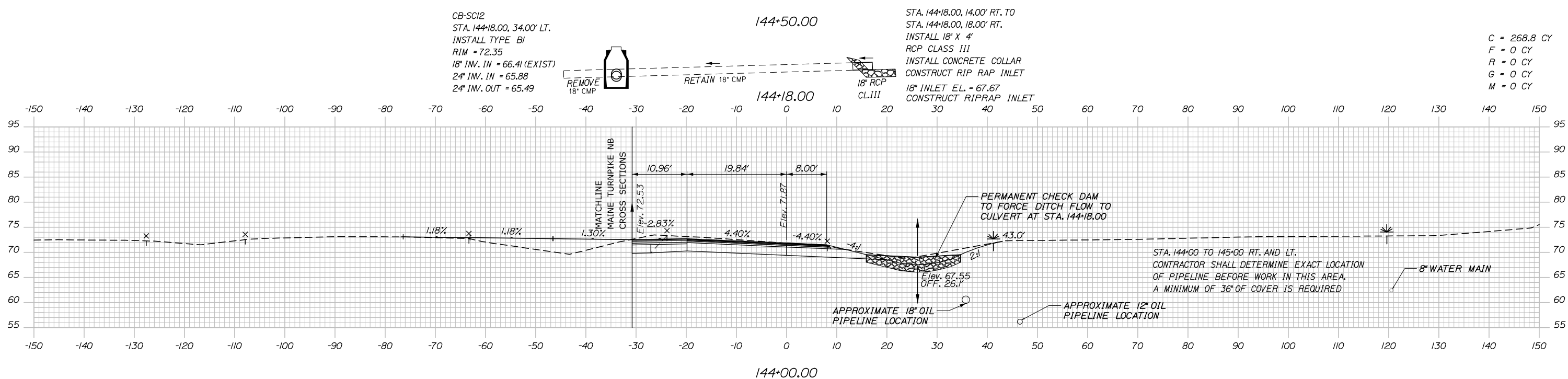
C = 278.4 CY
 F = 0 CY
 R = 0 CY
 G = 4.2 CY
 M = 0 CY



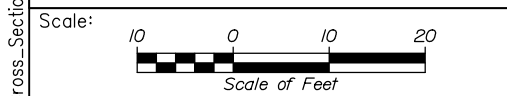
CB-SC12
 STA. 144+18.00, 34.00' LT.
 INSTALL TYPE BI
 RIM = 72.35
 18" INV. IN = 66.41 (EXIST)
 24" INV. IN = 65.88
 24" INV. OUT = 65.49

STA. 144+18.00, 14.00' RT. TO
 STA. 144+18.00, 18.00' RT.
 INSTALL 18" X 4"
 RCP CLASS III
 INSTALL CONCRETE COLLAR
 CONSTRUCT RIP RAP INLET
 18" INLET EL. = 67.67
 CONSTRUCT RIPRAP INLET

C = 268.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



STA. 144+00 TO 145+00 RT. AND LT.
 CONTRACTOR SHALL DETERMINE EXACT LOCATION
 OF PIPELINE BEFORE WORK IN THIS AREA.
 A MINIMUM OF 36" OF COVER IS REQUIRED



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB OFF CROSS SECTIONS
 STA. 144+00 TO STA. 144+50

CONTRACT: 2021.08

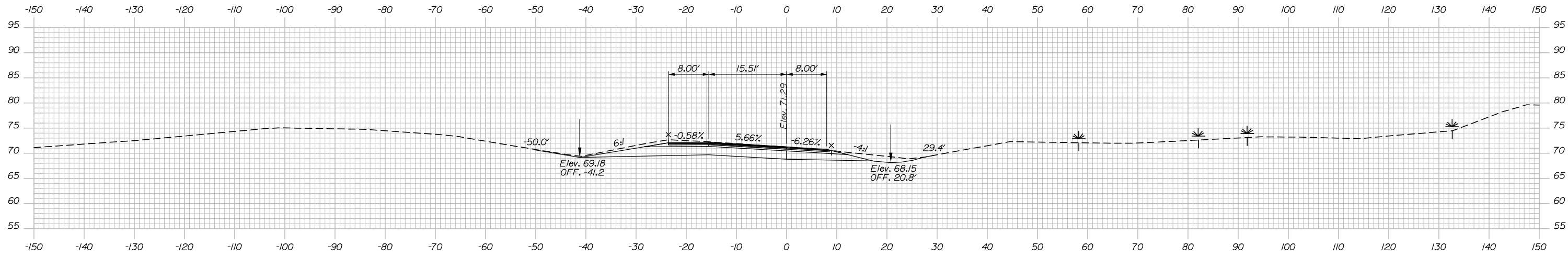
SHEET NUMBER:

302 OF 376

Filename: PAW2_Cross_Section_NB_48_OFF_3.dgn

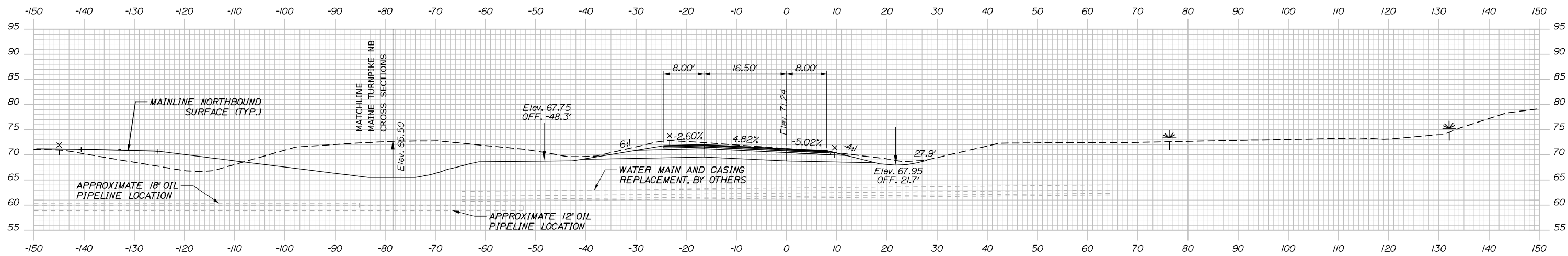
Date: 9/9/2021

C = 254.0 CY
 F = 0 CY
 R = 0 CY
 G = 0.3 CY
 M = 0 CY

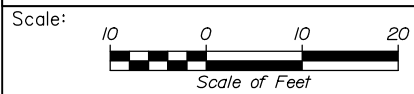


145+50.00

C = 270.2 CY
 F = 0 CY
 R = 0 CY
 G = 4.2 CY
 M = 0 CY



145+00.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB OFF CROSS SECTIONS
 STA. 145+00 TO STA. 145+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

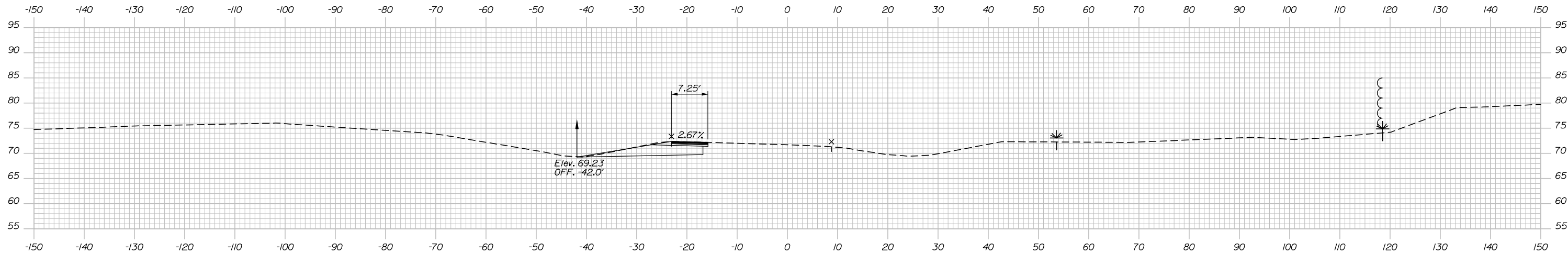
CONTRACT: 2021.08

SHEET NUMBER:

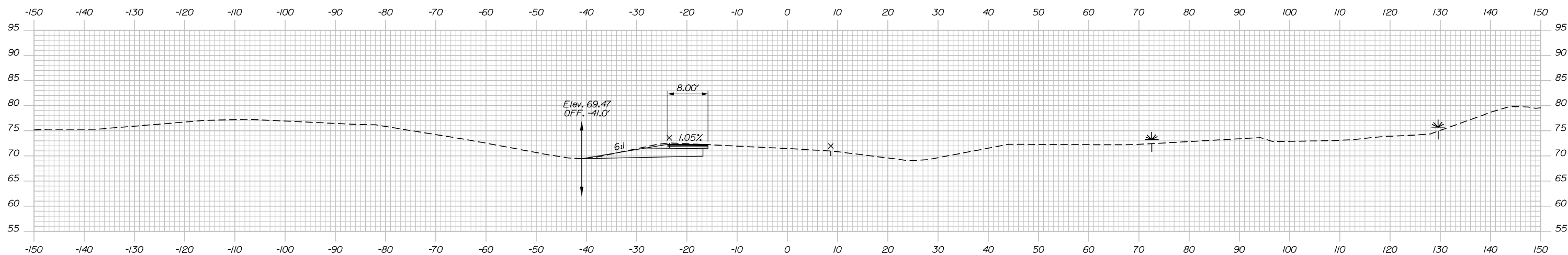
303 OF 376

Filename: PAW2_Cross_Section_NB_48_OFF-4.dgn

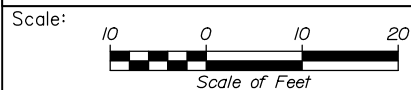
Date: 9/8/2021



146+50.00



146+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB OFF CROSS SECTIONS
 STA. 146+00 TO STA. 146+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	By	Date	Checked	By	Date
	JS	09\21		PJS	09\21
Drawn	By	Date	In Charge of	By	Date
	GW	09\21		TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

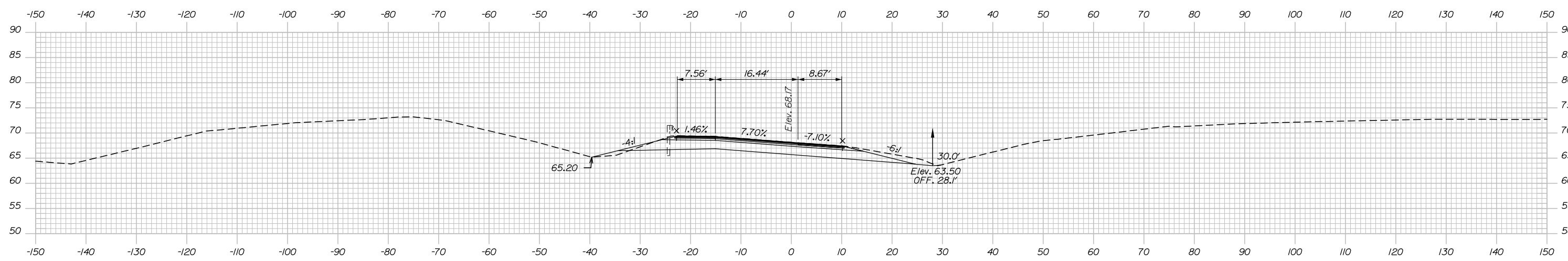
SHEET NUMBER:

304 OF 376

Filename: PAW2_Cross_Section_NB_48_OFF-5.dgn

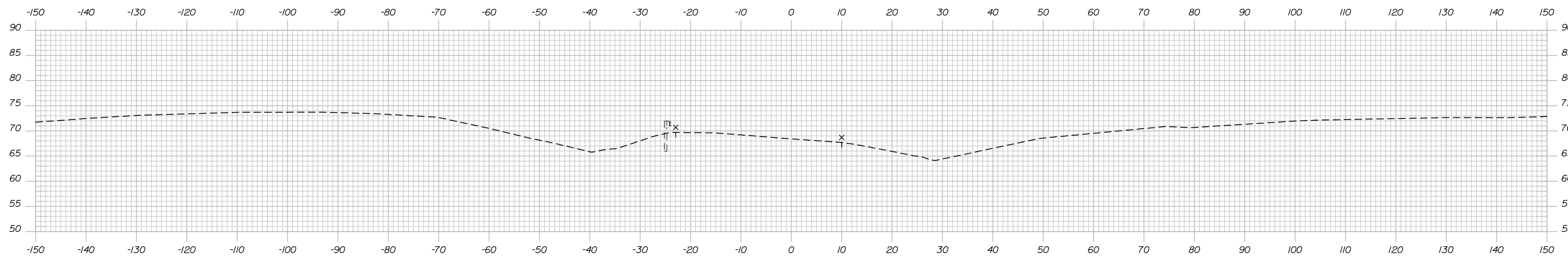
Date: 9/8/2021

C = 59.0 CY
 F = 1.4 CY
 R = 0 CY
 G = 0.7 CY
 M = 0 CY

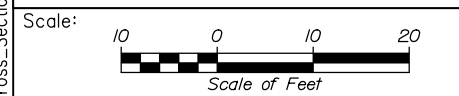


158+00.00

C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



157+75.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

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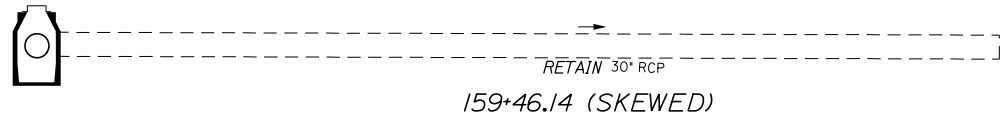
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 157+75 TO STA. 158+00

SHEET NUMBER:
 CONTRACT: 2021.08
 305 OF 376

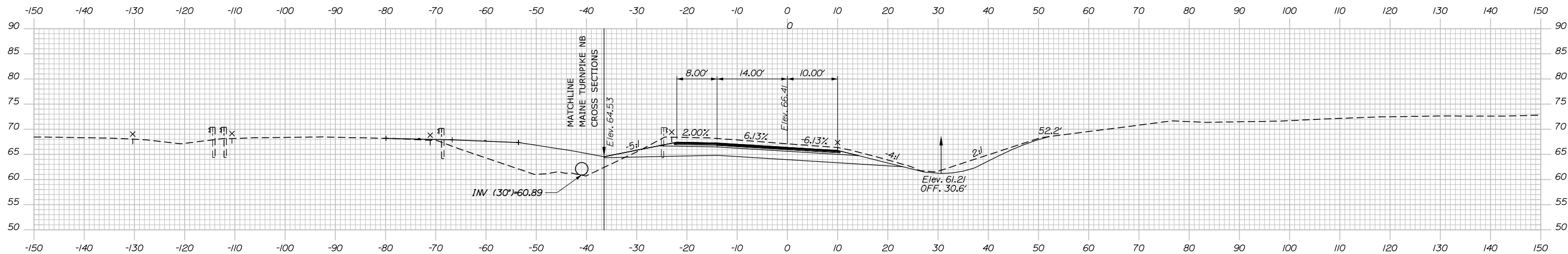
Filename: PAW2_Cross_Section_NB_48_ON-1.dgn

Date: 9/8/2021



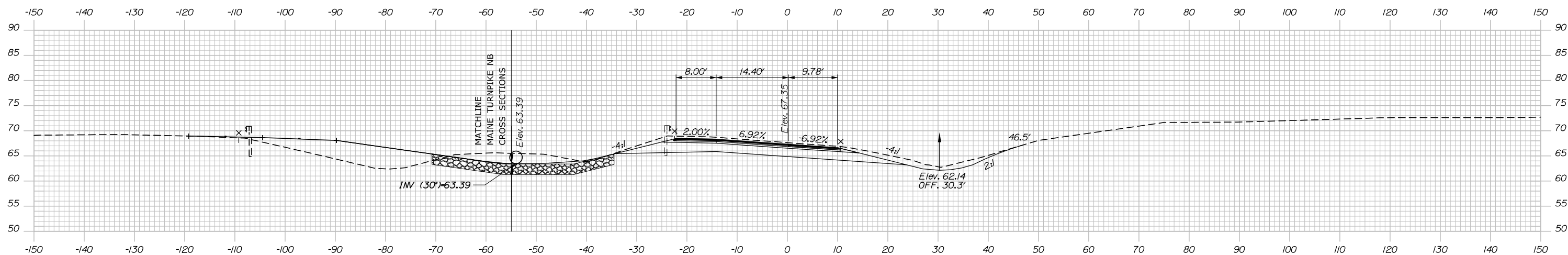
EXISTING 30° OUTLET EL. = 59.70
CONSTRUCT RIPRAP OUTLET

C = 309.7 CY
F = 4.4 CY
R = 0 CY
G = 2.4 CY
M = 0 CY

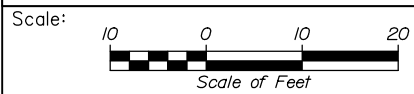


159+00.00

C = 256.6 CY
F = 3.5 CY
R = 0 CY
G = 1.7 CY
M = 0 CY



158+50.00



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
RAMP 48 NB ON CROSS SECTIONS
STA. 158+50 TO STA. 159+00

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

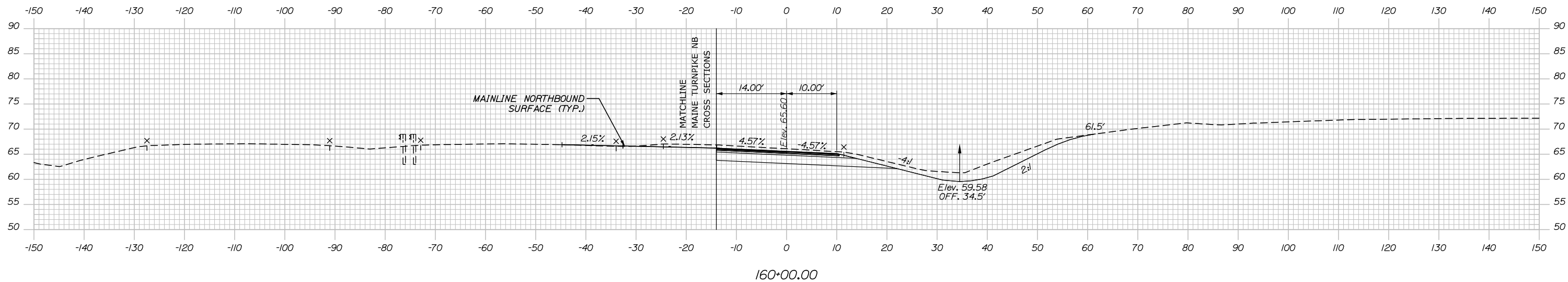
CONTRACT: 2021.08

306 OF 376

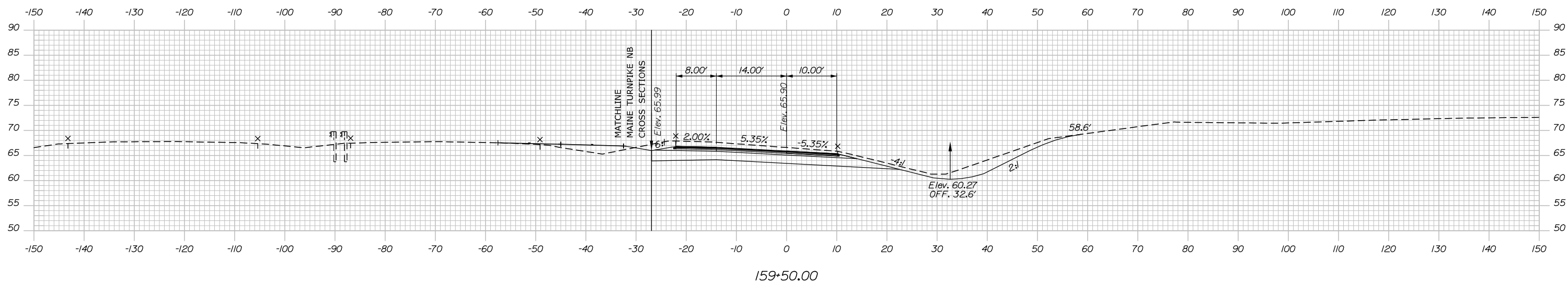
Filename: PAW2_Cross_Section_NB_48_ON-2.dgn

Date: 9/8/2021

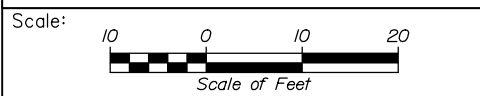
C = 318.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 338.2 CY
 F = 3.8 CY
 R = 0 CY
 G = 2.2 CY
 M = 0 CY



Filename: PAW2_Cross_Section_NB_4B_ON-3.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

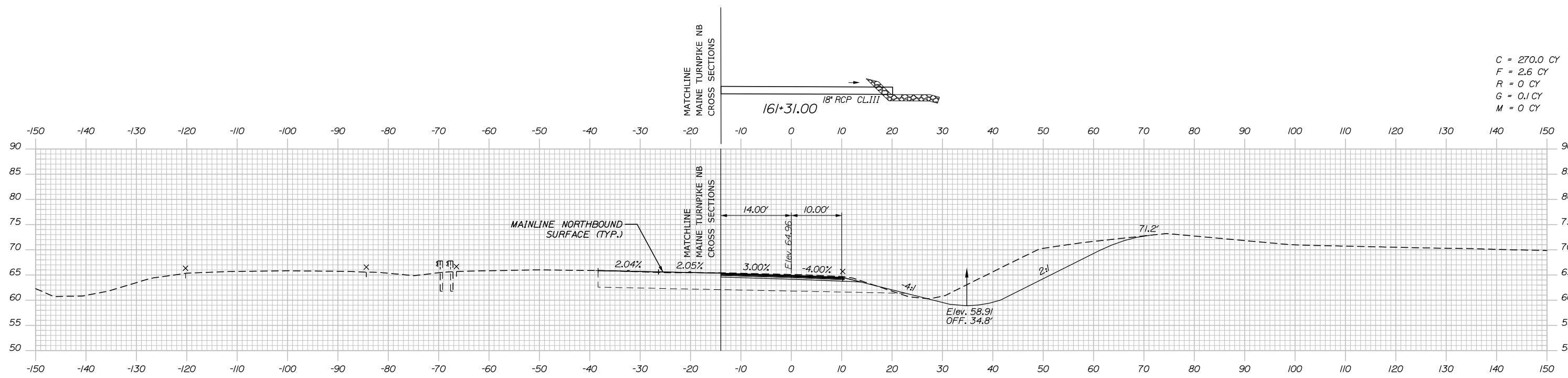
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 159+50 TO STA. 160+00

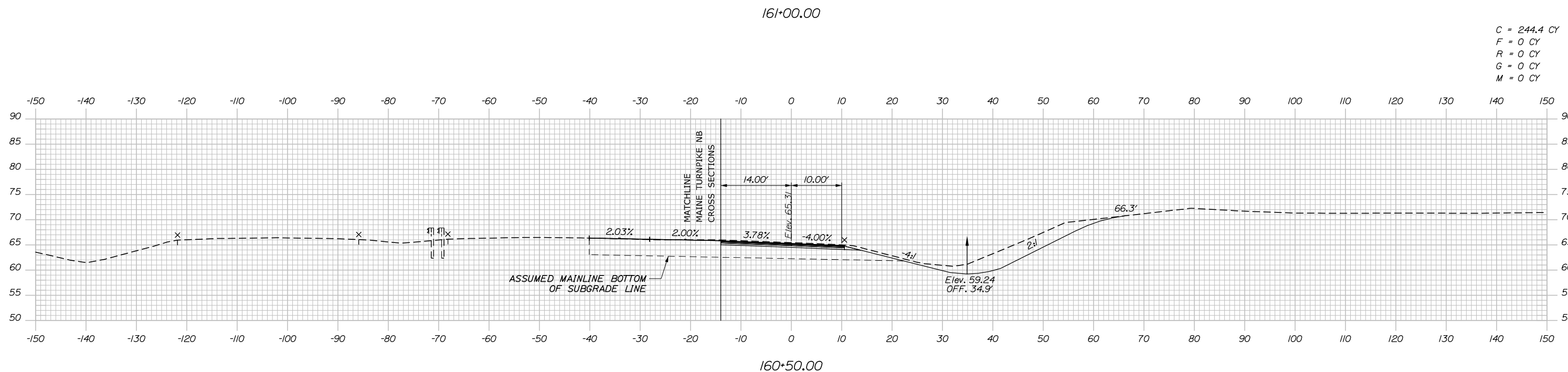
SHEET NUMBER:
 CONTRACT: 2021.08
 307 OF 376

Date: 9/8/2021

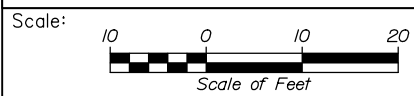
Filename: PAW2_Cross_Section_NB_4B_ON-4.dgn



C = 270.0 CY
 F = 2.6 CY
 R = 0 CY
 G = 0.1 CY
 M = 0 CY



C = 244.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

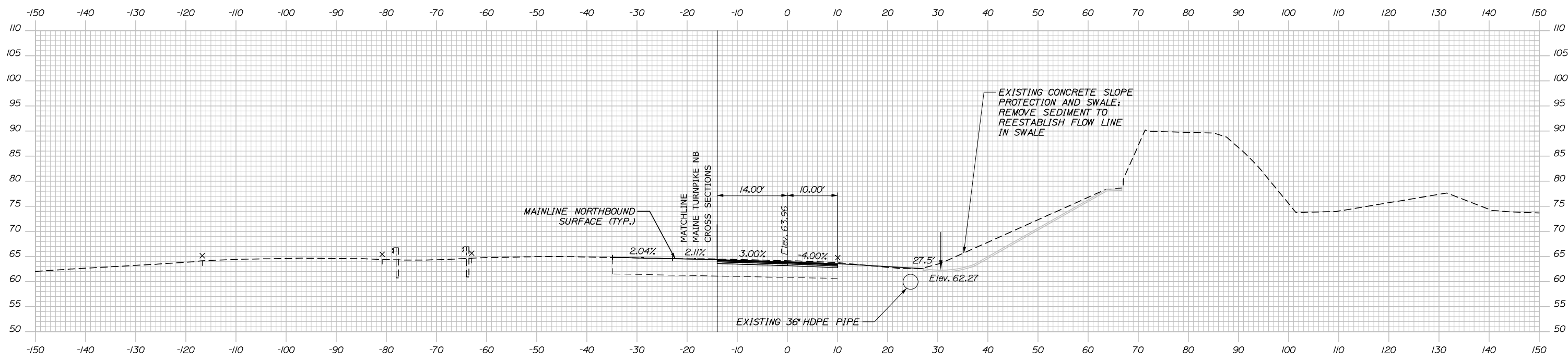
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 160+50 TO STA. 161+00

SHEET NUMBER:
 CONTRACT: 2021.08
 308 OF 376

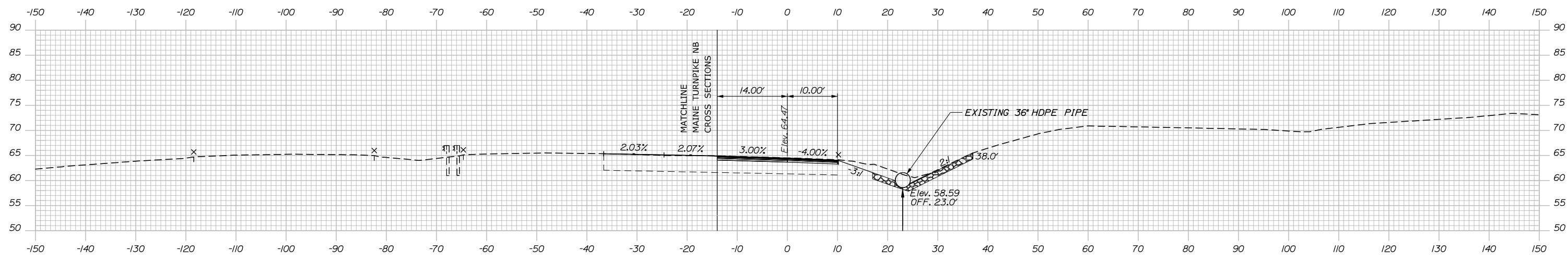
C = 49.0 CY
 F = 2.3 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

Date: 9/8/2021

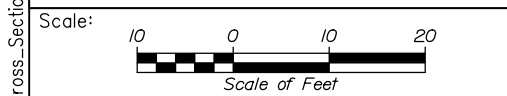


162+00.00

C = 194.7 CY
 F = 2.6 CY
 R = 0 CY
 G = 0.1 CY
 M = 0 CY



161+50.00



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

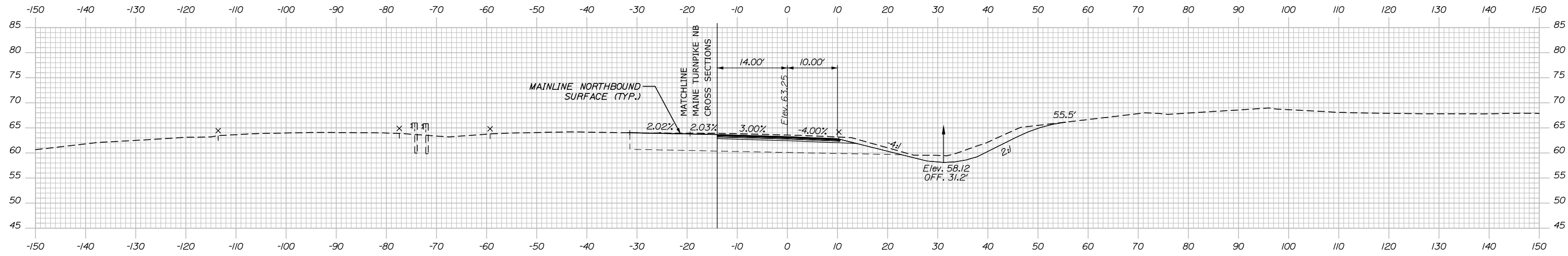
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 161+50 TO STA. 162+00

SHEET NUMBER:
 CONTRACT: 2021.08
 309 OF 376

Filename: PAW2_Cross_Section_NB_48_ON-5.dgn

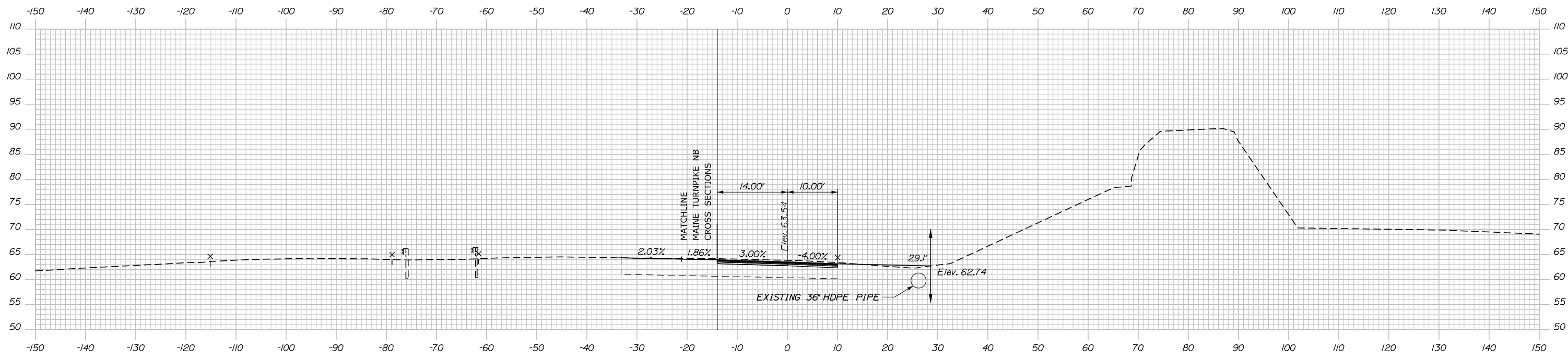
C = 95.6 CY
 F = 3.4 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

Date: 9/8/2021



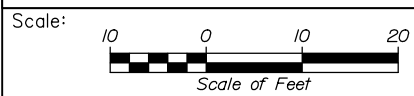
163+00.00

C = 46.3 CY
 F = 5.7 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



162+50.00

EXISTING 36" HDPE PIPE



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 162+50 TO STA. 163+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

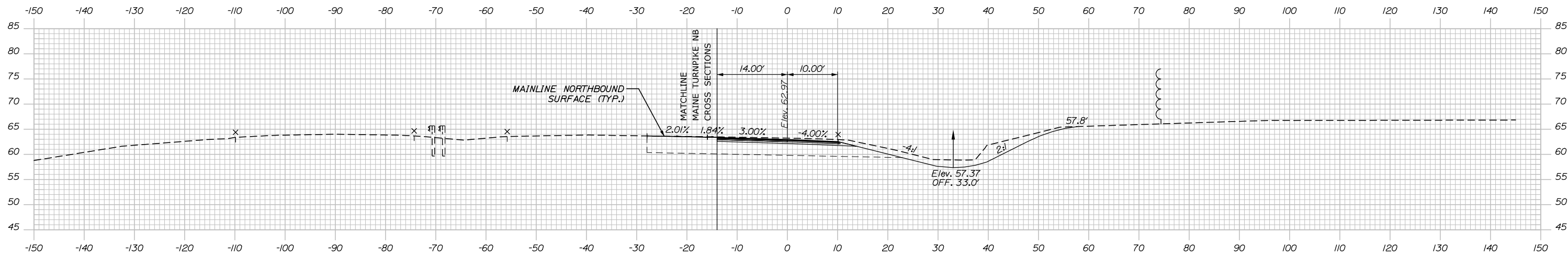
SHEET NUMBER:

310 OF 376

Filename: PAW2_Cross_Section_NB_48_ON-6.dgn

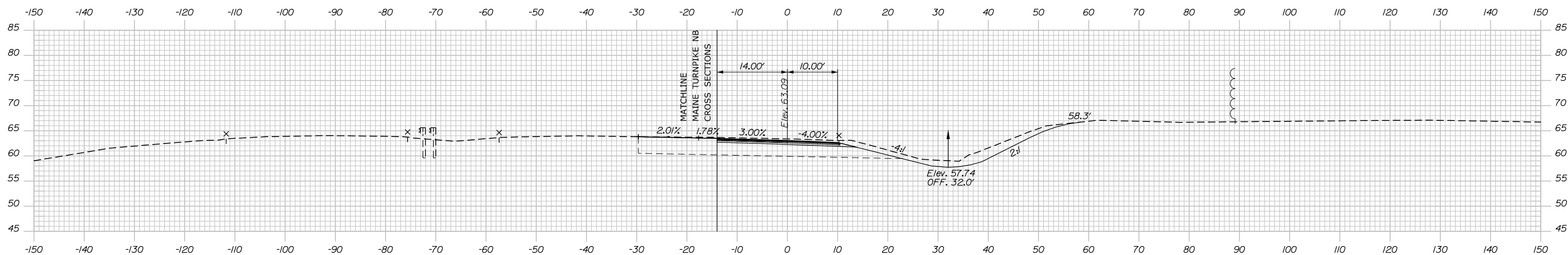
Date: 9/8/2021

C = 155.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

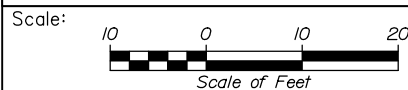


164+00.00

C = 147.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



163+50.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 163+50 TO STA. 164+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

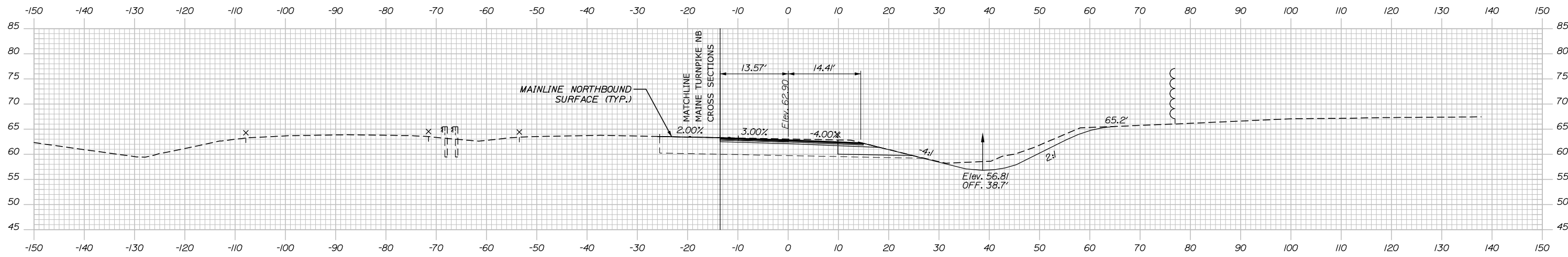
SHEET NUMBER:

311 OF 376

Filename: PAW2_Cross_Section_NB_48_ON-7.dgn

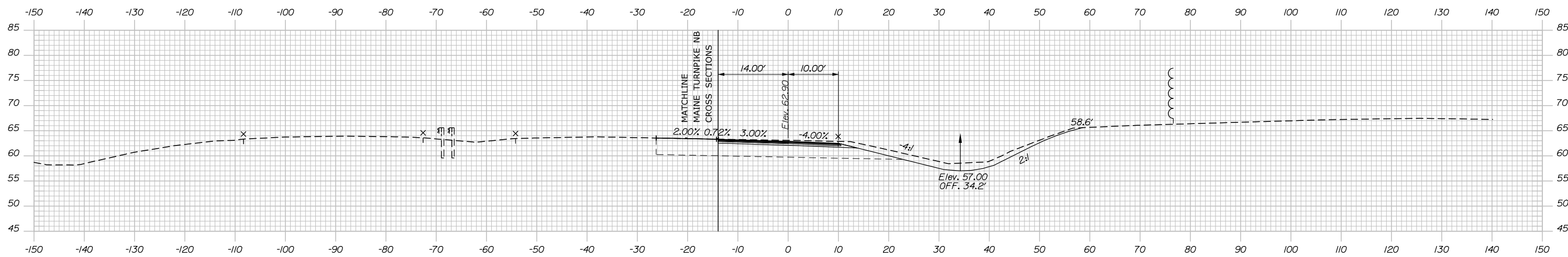
Date: 9/8/2021

C = 76.4 CY
 F = 0 CY
 R = 0 CY
 G = 0.2 CY
 M = 0 CY

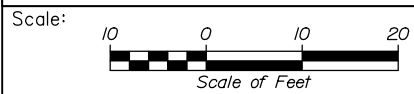


164+75.00

C = 147.7 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



164+50.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 NB ON CROSS SECTIONS
 STA. 164+50 TO STA. 164+75

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By JS	Date 09\21	Checked PJS 09\21
Drawn	By GW	Date 09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

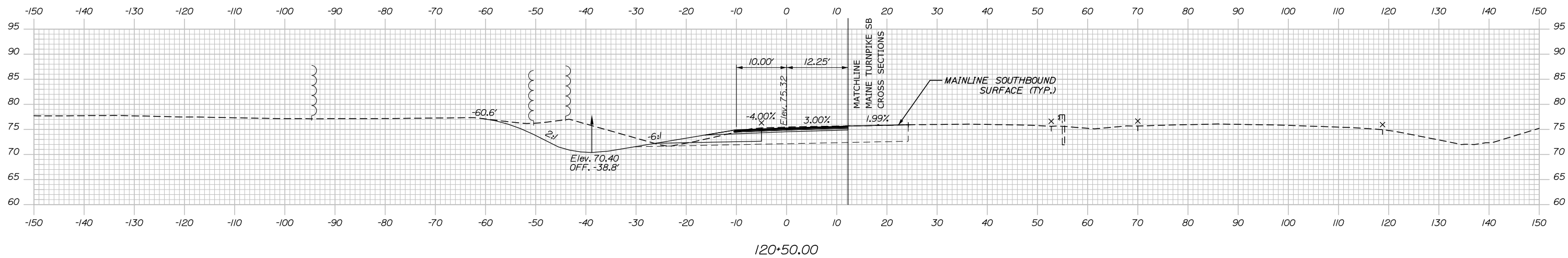
SHEET NUMBER:

312 OF 376

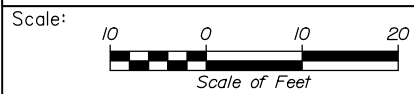
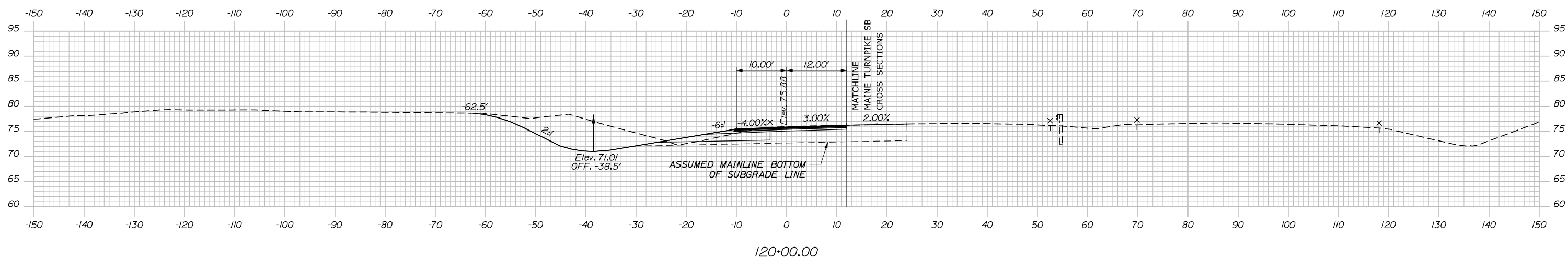
Filename: PAW2_Cross_Section_NB_48_ON-8.dgn

Date: 9/8/2021

C = 271.9 CY
 F = 3.9 CY
 R = 0 CY
 G = 7.2 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Designed by:



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

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 120+00 TO STA. 120+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

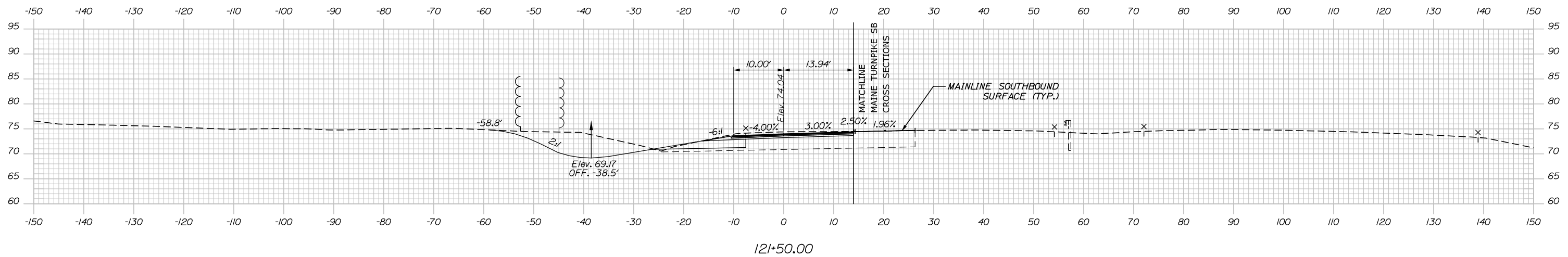
CONTRACT: 2021.08

SHEET NUMBER: 313 OF 376

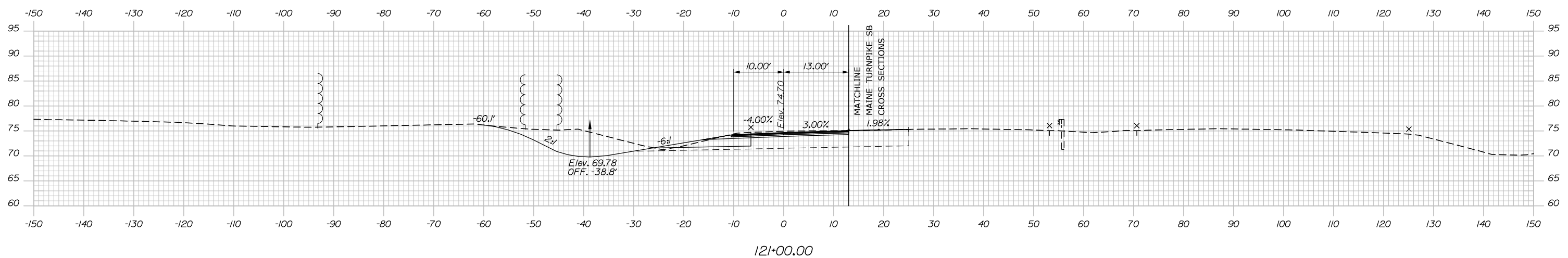
Filename: PAW2_Cross_Section_SB_48_ON-1.dgn

Date: 9/8/2021

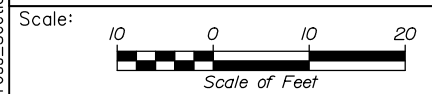
C = 243.2 CY
 F = 1.0 CY
 R = 0 CY
 G = 4.4 CY
 M = 0 CY



C = 248.1 CY
 F = 2.9 CY
 R = 0 CY
 G = 6.4 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_4B_ON-2.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 121+00 TO STA. 121+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	By	Date	Checked	By	Date
	JS	09\21		PJS	09\21
Drawn	By	Date	In Charge of	By	Date
	GW	09\21		TRC	09\21

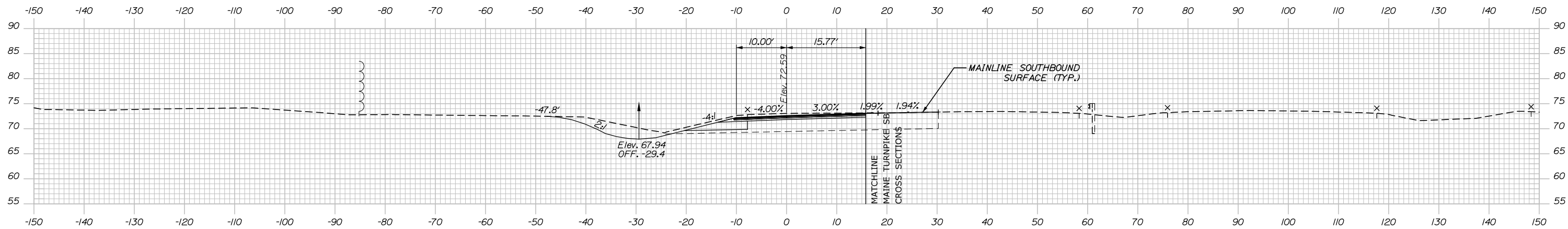
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

314 OF 376

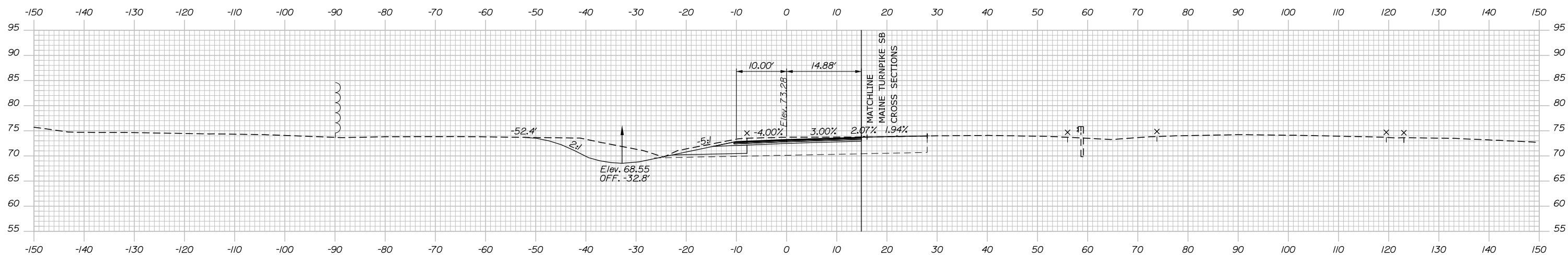
Date: 9/8/2021

C = 185.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

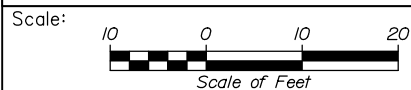


122+50.00

C = 223.7 CY
 F = 0.4 CY
 R = 0 CY
 G = 1.8 CY
 M = 0 CY



122+00.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 122+00 TO STA. 122+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	JS	09\21	Checked
Drawn	GW	09\21	In Charge of
			TRC

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

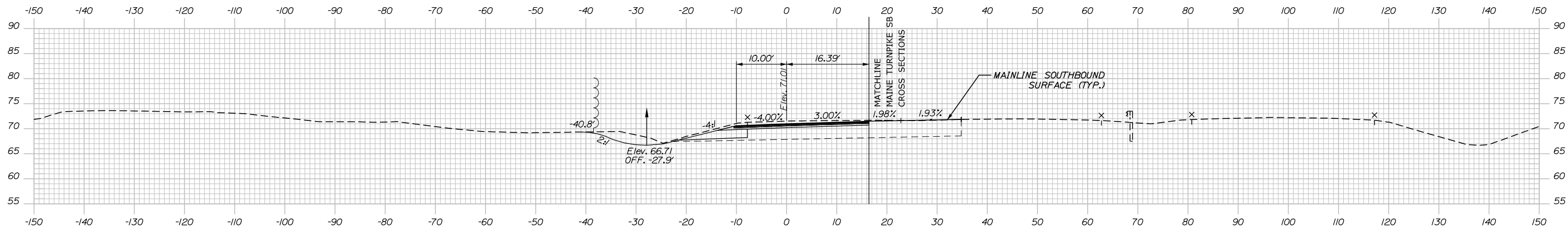
CONTRACT: 2021.08

315 OF 376

Filename: PAW2_Cross_Section_SB_48_ON-3.dgn

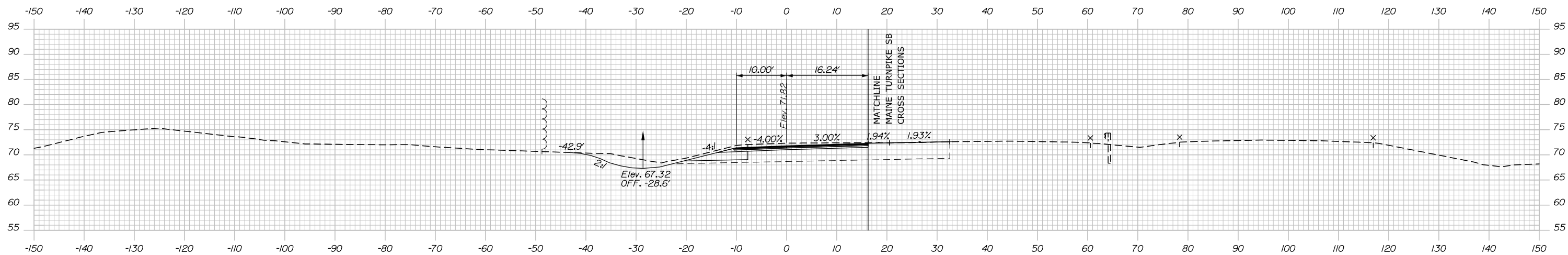
Date: 9/8/2021

C = 141.8 CY
 F = 0 CY
 R = 0 CY
 G = 0.1 CY
 M = 0 CY

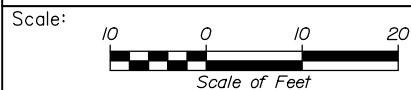


123+50.00

C = 154.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



123+00.00



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 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 123+00 TO STA. 123+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

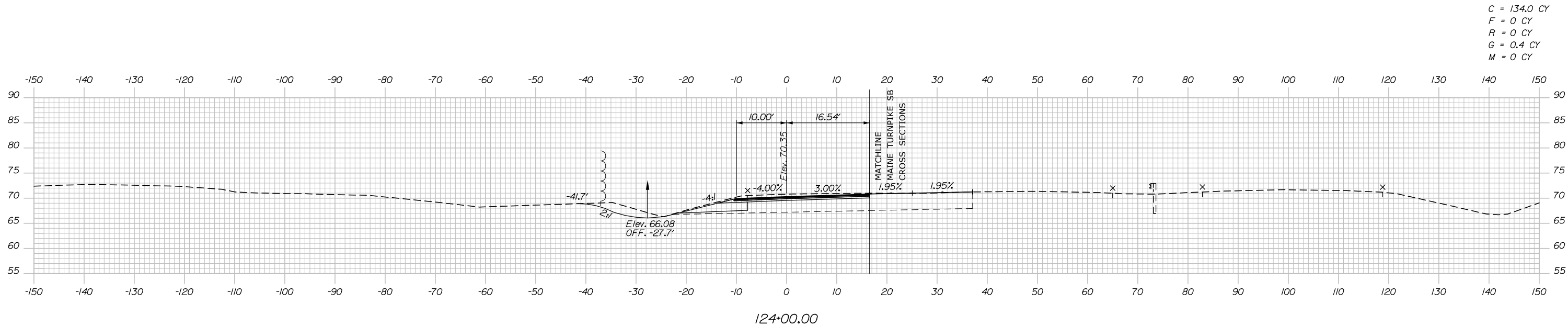
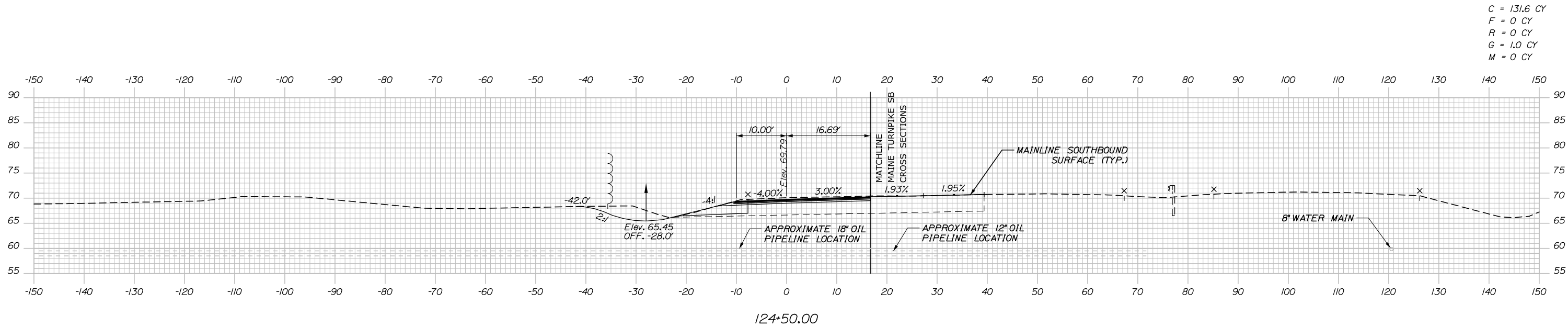
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

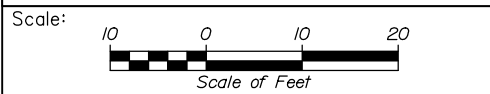
316 OF 376

Filename: PAW2_Cross_Section_SB_48_ON-4.dgn

Date: 9/8/2021



Filename: PAW2_Cross_Section_SB_48_ON-5.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

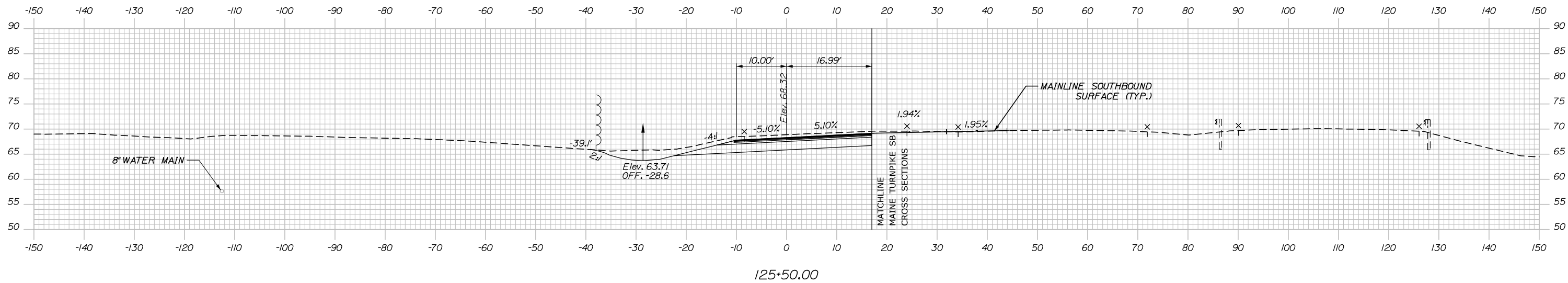
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 124+00 TO STA. 124+50

SHEET NUMBER:
 CONTRACT: 2021.08

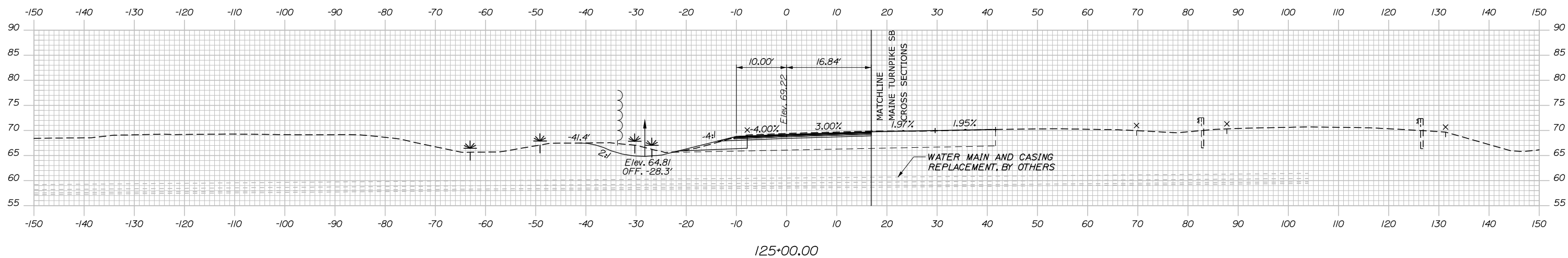
317 OF 376

Date: 9/9/2021

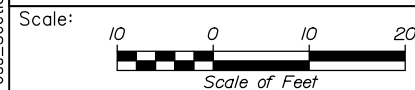
C = 178.7 CY
 F = 0 CY
 R = 0 CY
 G = 1.1 CY
 M = 0 CY



C = 125.0 CY
 F = 0 CY
 R = 0 CY
 G = 1.9 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_4B_ON-6.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 125+00 TO STA. 125+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	By	Date	Checked	By	Date
	JS	09\21		PJS	09\21
Drawn	By	Date	In Charge of	By	Date
	GW	09\21		TRC	09\21

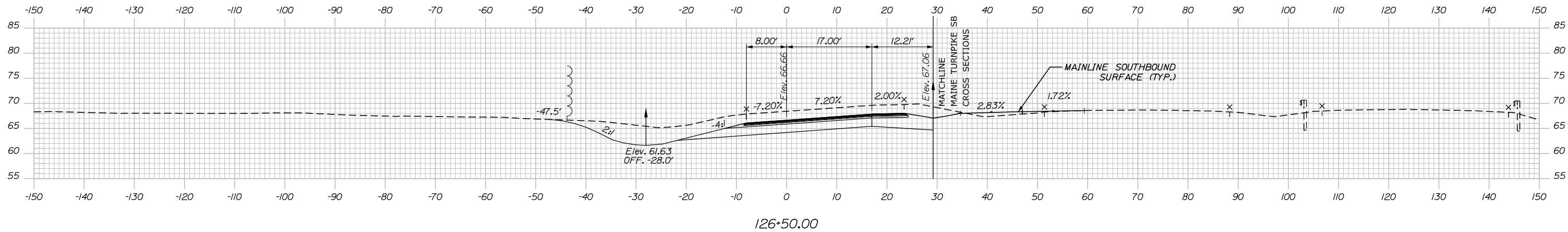
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

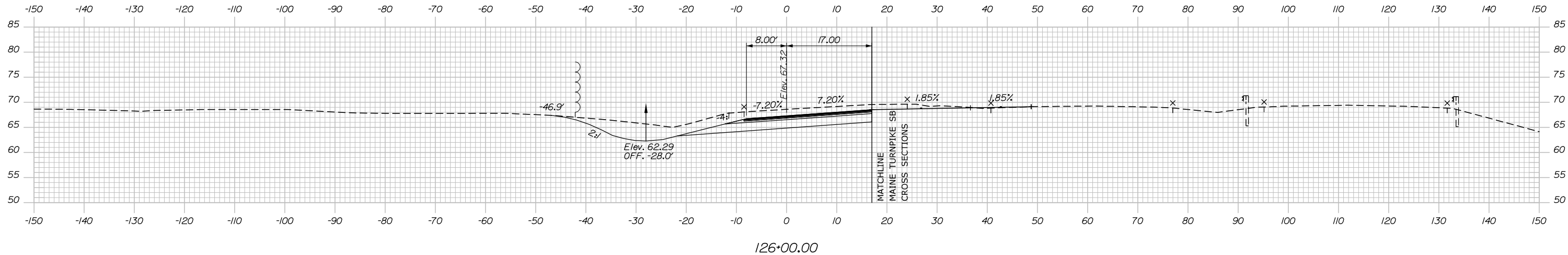
318 OF 376

Date: 9/8/2021

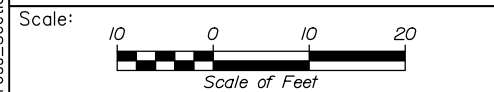
C = 424.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 293.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_48_ON-7.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 126+00 TO STA. 126+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

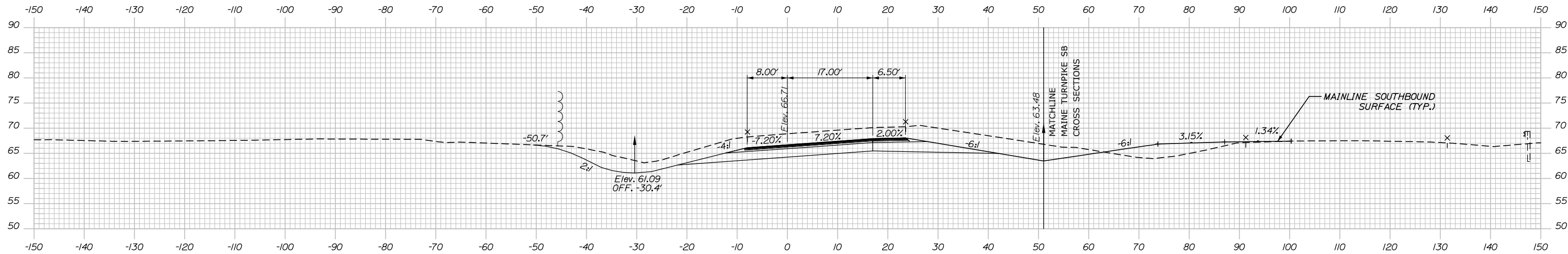
CONTRACT: 2021.08

SHEET NUMBER:

319 OF 376

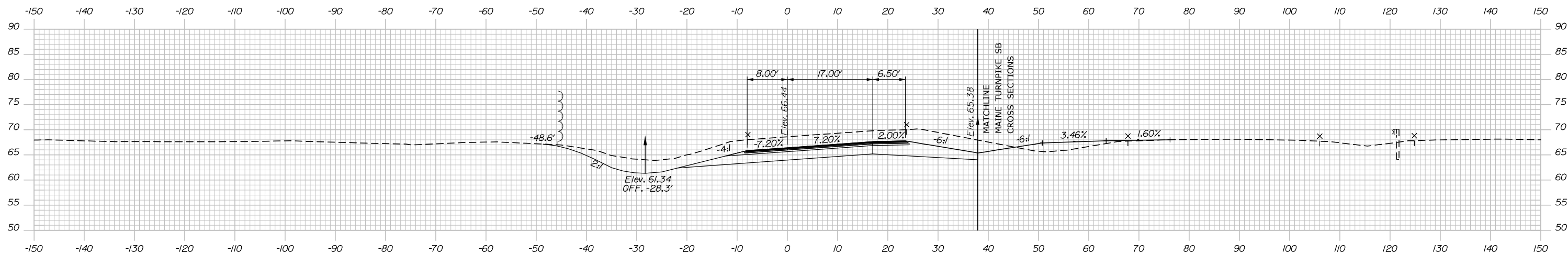
Date: 9/8/2021

C = 628.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

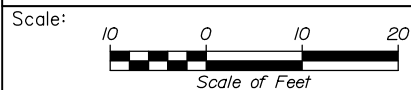


127+50.00

C = 544.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



127+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 127+00 TO STA. 127+50

SHEET NUMBER:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	JS	09\21	Checked PJS 09\21
Drawn	GW	09\21	In Charge of TRC 09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

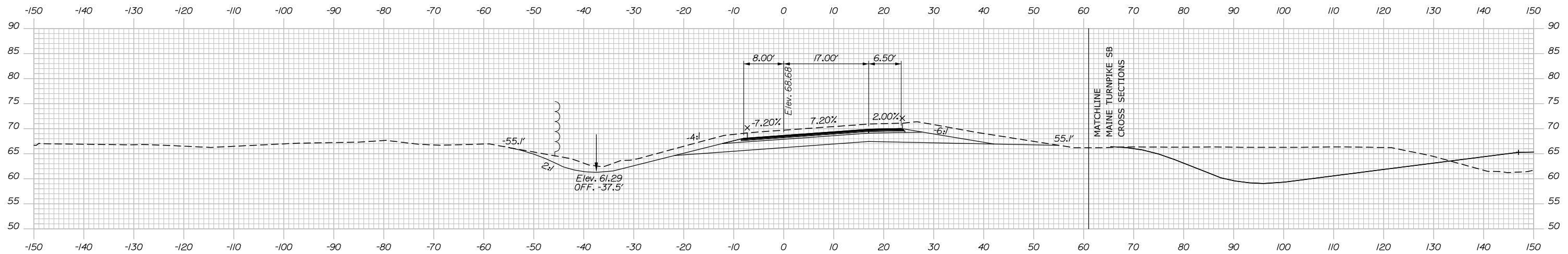
CONTRACT: 2021.08

320 OF 376

Filename: PAW2_Cross_Section_SB_48_ON-8.dgn

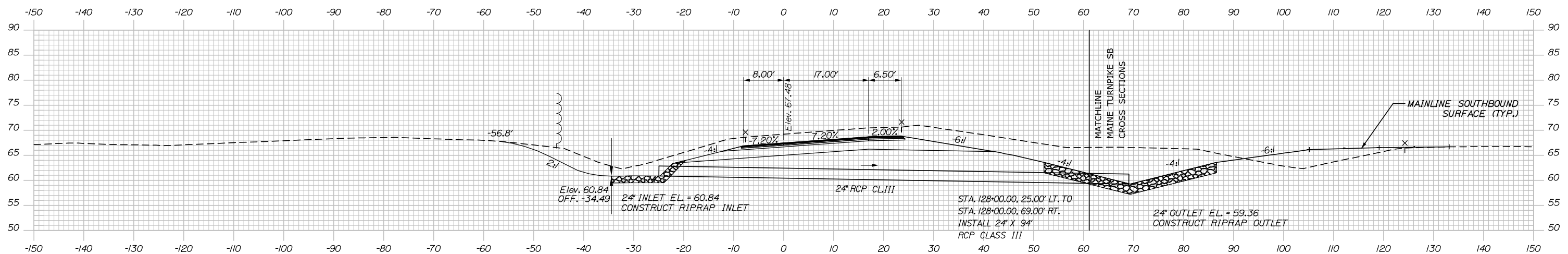
Date: 9/8/2021

C = 896.3 CY
 F = 0 CY
 R = 0 CY
 G = 0.8 CY
 M = 0 CY

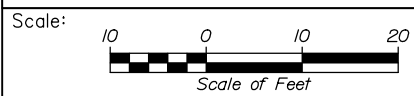


128+50.00

C = 995.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



128+00.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 128+00 TO STA. 128+50

CONTRACT: 2021.08

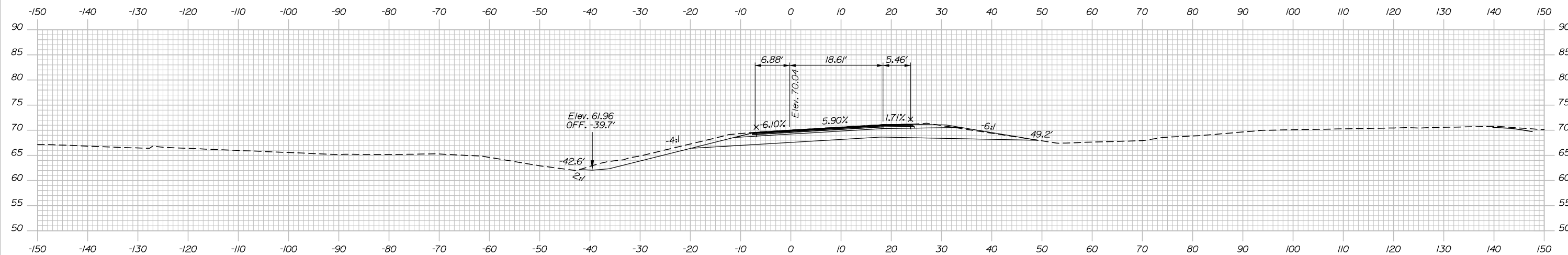
SHEET NUMBER:

3210F 376

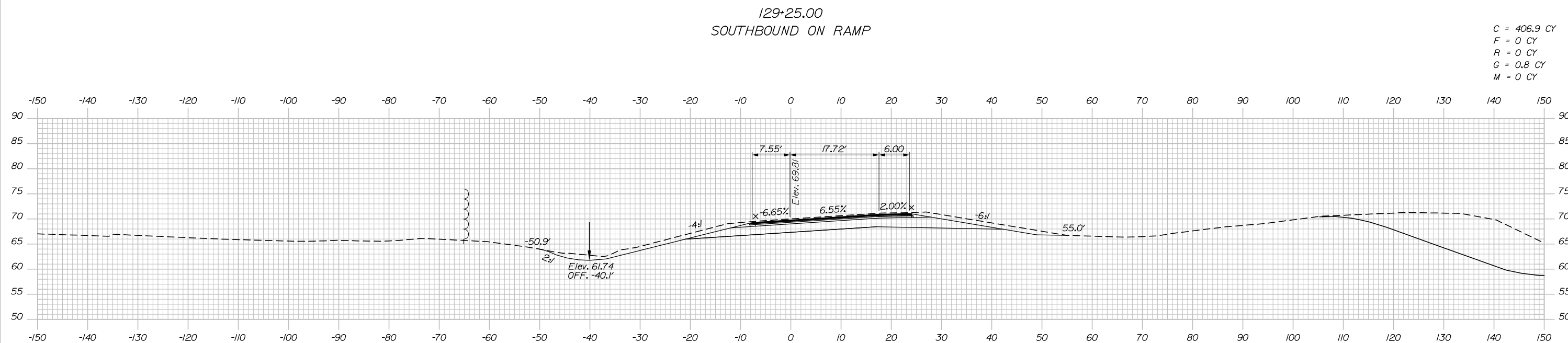
Filename: PAW2_Cross_Section_SB_48_ON-9.dgn

Date: 9/8/2021

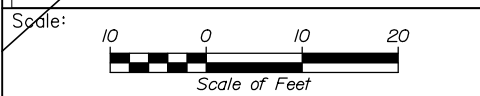
C = 161.7 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 406.9 CY
 F = 0 CY
 R = 0 CY
 G = 0.8 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_48_ON-10.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

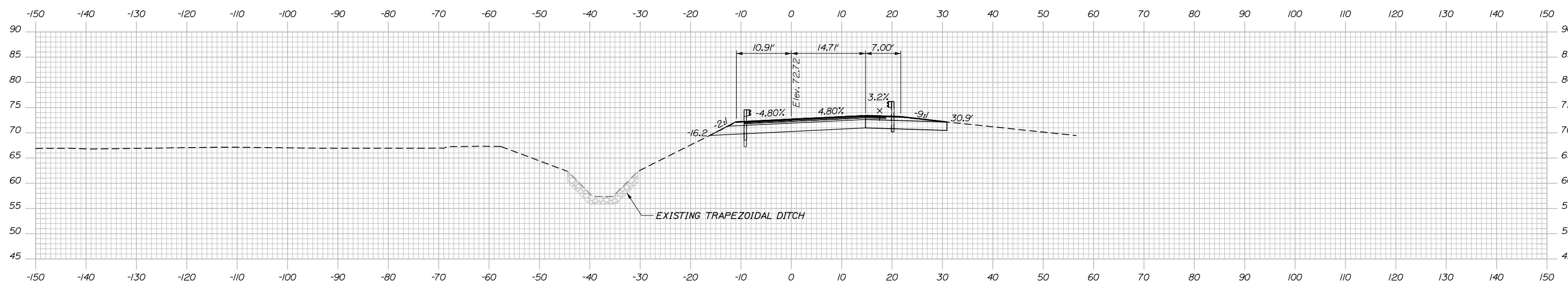
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB ON CROSS SECTIONS
 STA. 129+00 TO STA. 129+25

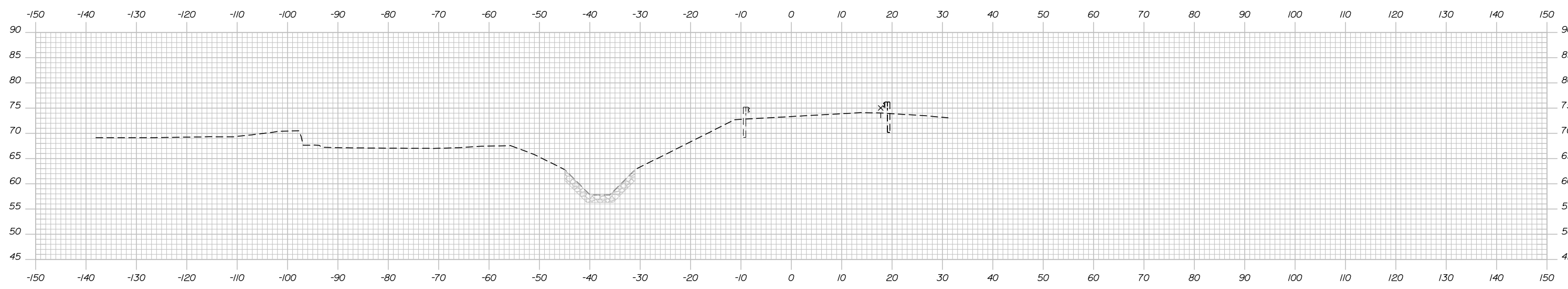
SHEET NUMBER:
 CONTRACT: 2021.08
 322 OF 376

Date: 9/8/2021

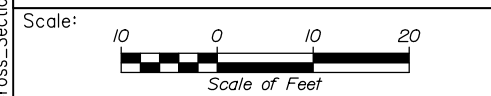
C = 303.4 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY



C = 166.2 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_48_OFF-2.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date	By	Date

Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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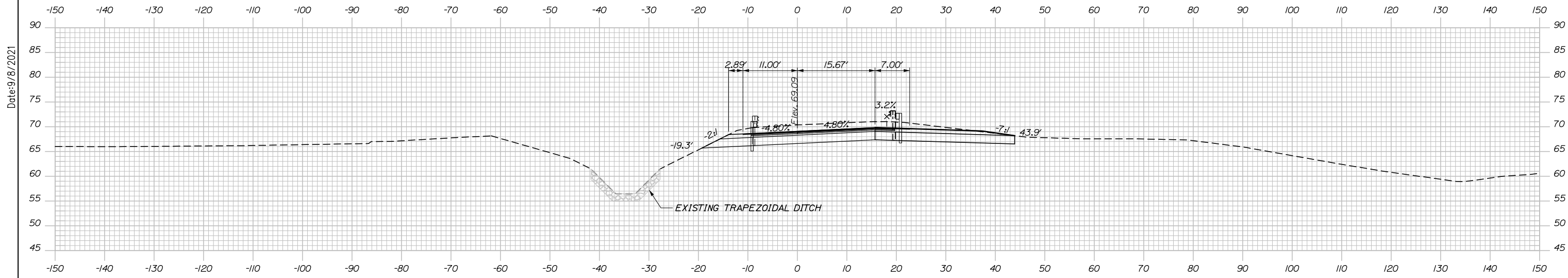
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 129+00 TO STA. 129+50

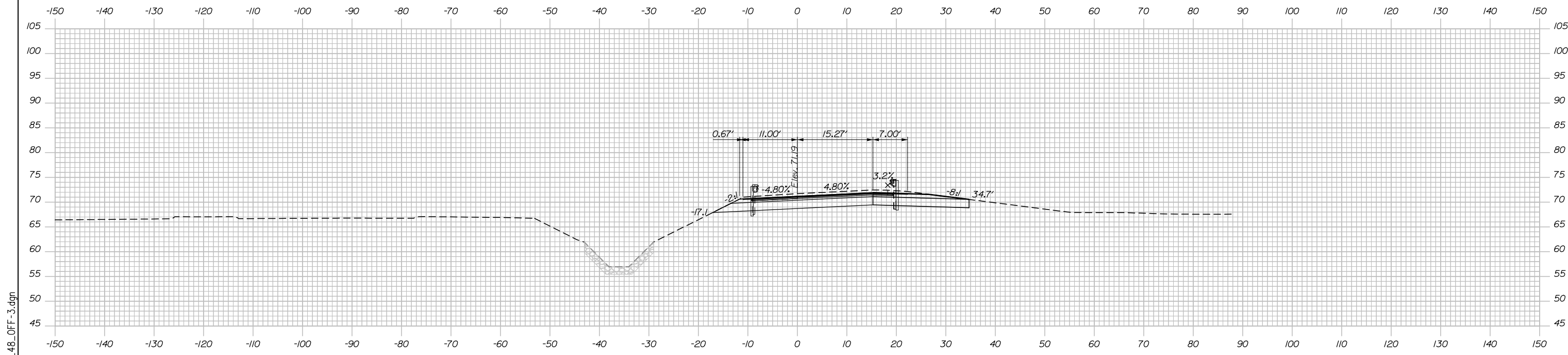
SHEET NUMBER:
 CONTRACT: 2021.08
 323 OF 376

Date: 9/8/2021



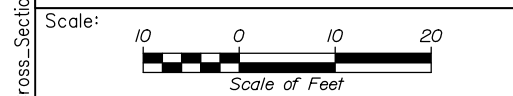
C = 744.0 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY

130+50.00



C = 534.5 CY
 F = 0 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY

130+00.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

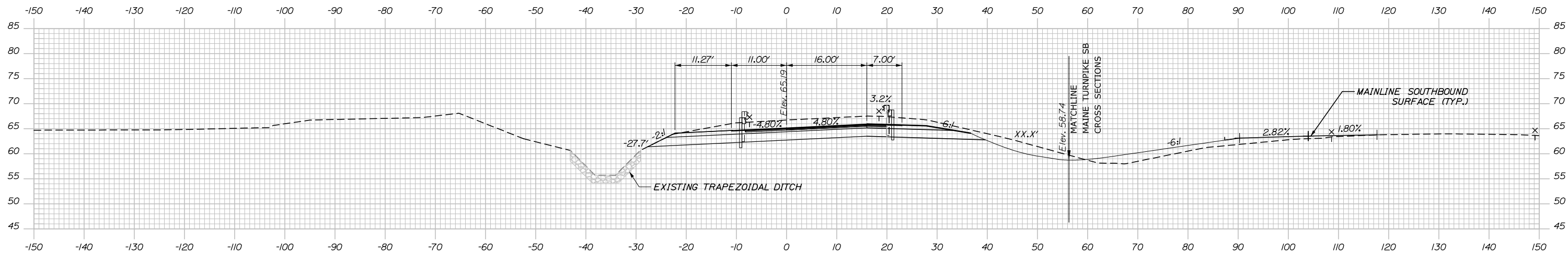
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 130+00 TO STA. 130+50

SHEET NUMBER:
 CONTRACT: 2021.08

Filename: PAW2_Cross_Section_SB_48_OFF_3.dgn

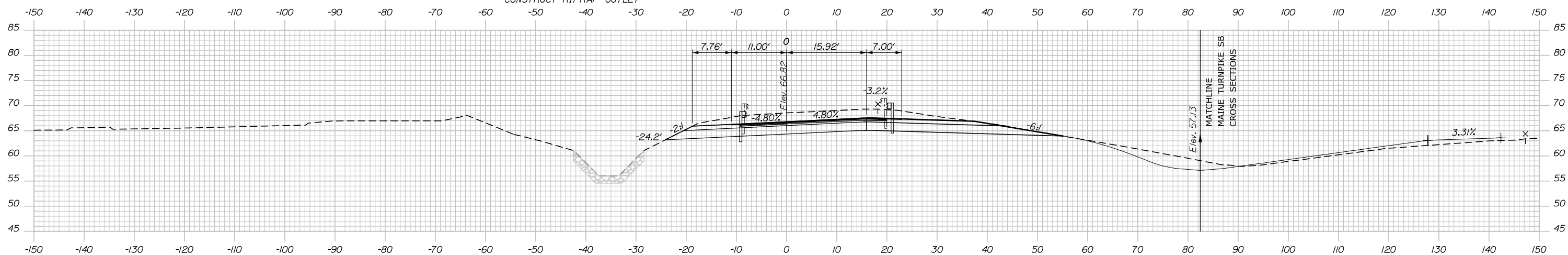
Date: 9/8/2021

C = 846.0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

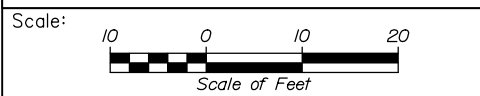


131+50.00
 STA. 131+38.00, 33.00' LT. TO
 STA. 131+38.00, 53.00' RT.
 INSTALL 36" X 30"
 RCP CLASS III
 REMOVE 24" RCP 36" RCP CL.III
 36" OUTLET EL. = 55.73
 CONSTRUCT RIPRAP OUTLET
 36" OUTLET EL. = 56.61
 CONSTRUCT RIPRAP INLET

C = 872.0 CY
 F = 0 CY
 R = 0 CY
 G = 0.3 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_4B_OFF-4.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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 South Portland, ME 04106
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

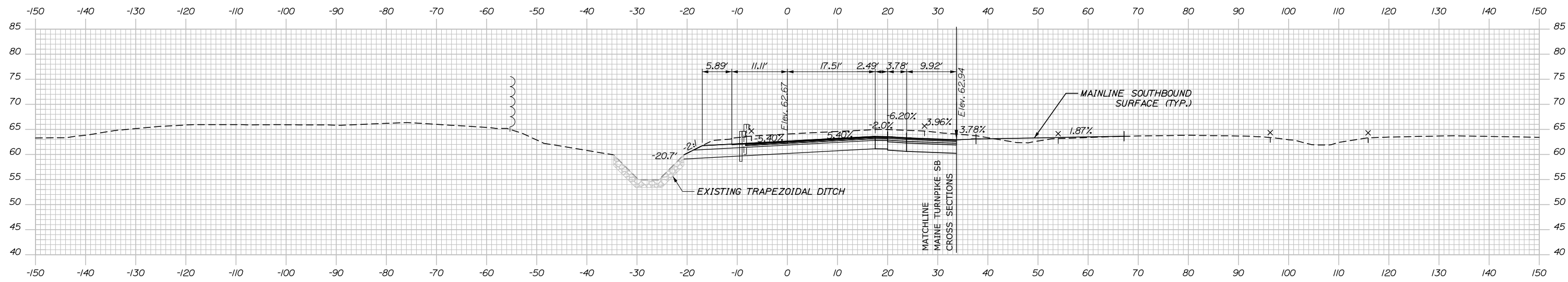
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 131+00 TO STA. 131+50

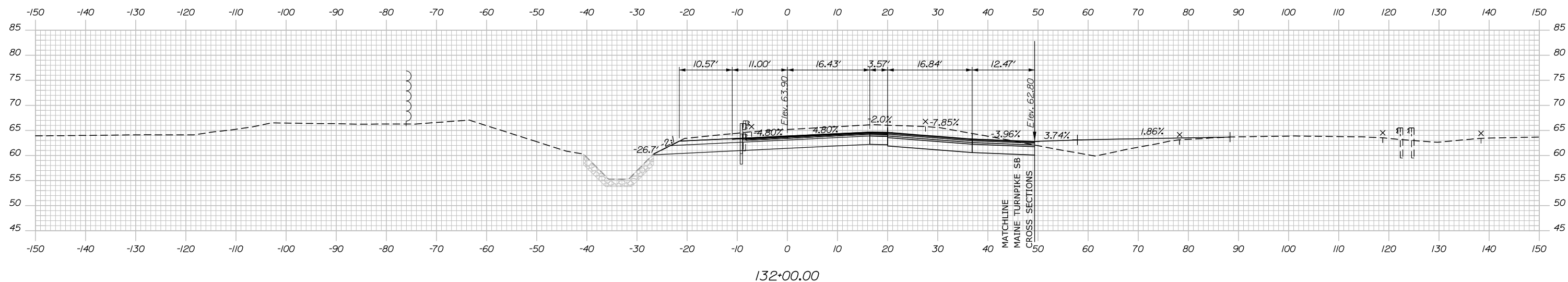
SHEET NUMBER:
 CONTRACT: 2021.08
 325 OF 376

Date: 9/8/2021

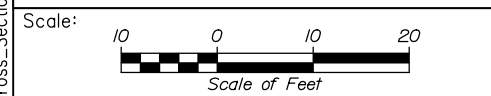
C = 483.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 691.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_48_OFF-5.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

HNTB CORPORATION
 82 Running Hill Road, Suite 201
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 TEL (207) 774-5155
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

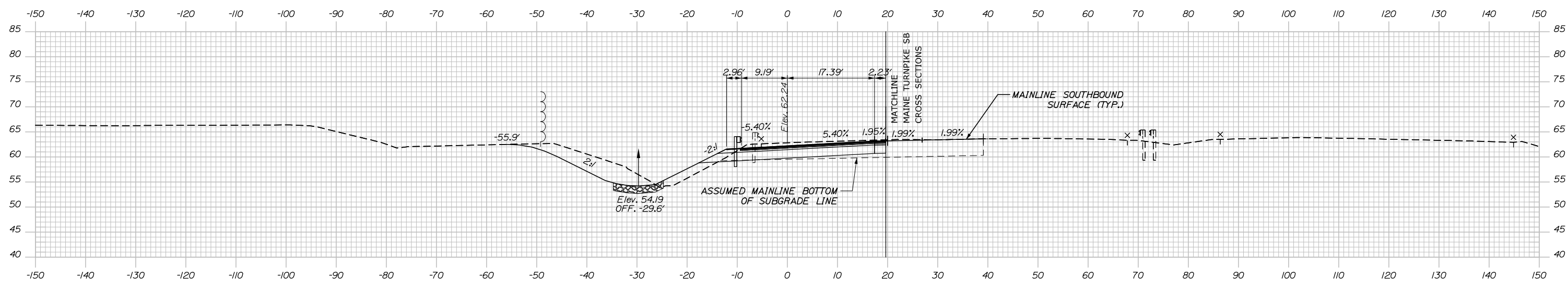
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 132+00 TO STA. 132+50

SHEET NUMBER:
 CONTRACT: 2021.08
 326 OF 376

Date: 9/8/2021

C = 255.4 CY
 F = 15.3 CY
 R = 0 CY
 G = 1.9 CY
 M = 0 CY



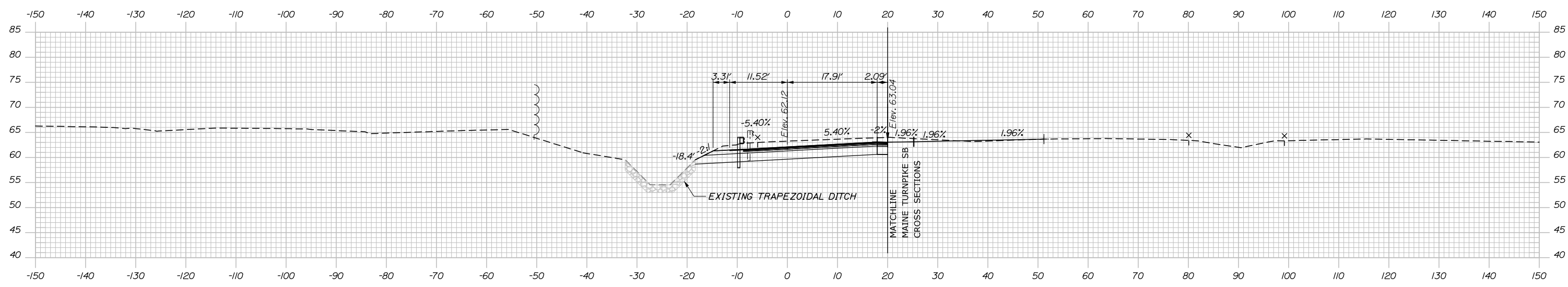
12" OUTLET EL. = 56.55
 CONSTRUCT RIPRAP OUTLET

STA. 133+08.64, 8.00' LT. TO
 STA. 133+08.64, 22.00' IT.
 INSTALL 12" X 14"
 RCP CLASS III

133+50.00

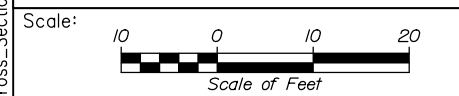
CB-300
 STA. 133+08.64, 6.00' LT.
 INSTALL TYPE BI
 RIM = 61.65
 12" INV. OUT = 56.65

C = 308.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



133+00.00

EXISTING TRAPEZOIDAL DITCH



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
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Drawn	GW	09\21	In Charge of	TRC	09\21

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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 133+00 TO STA. 133+50

CONTRACT: 2021.08

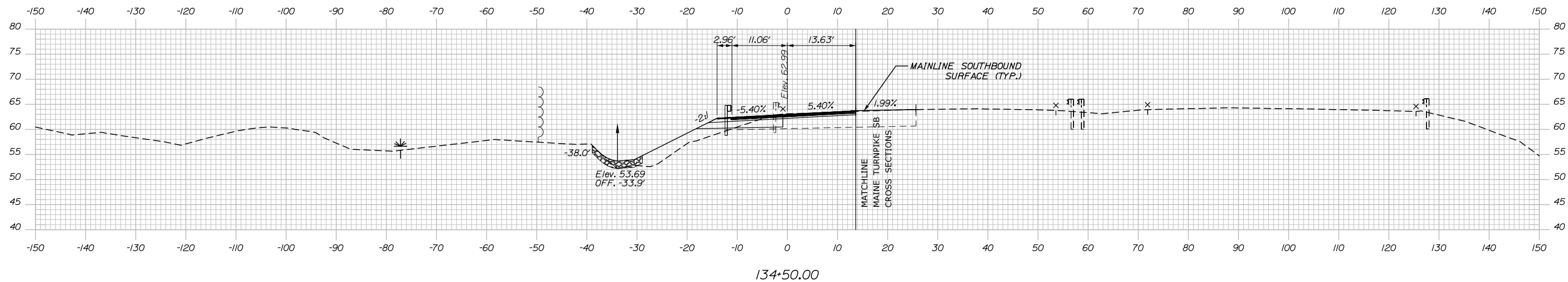
SHEET NUMBER:

327 OF 376

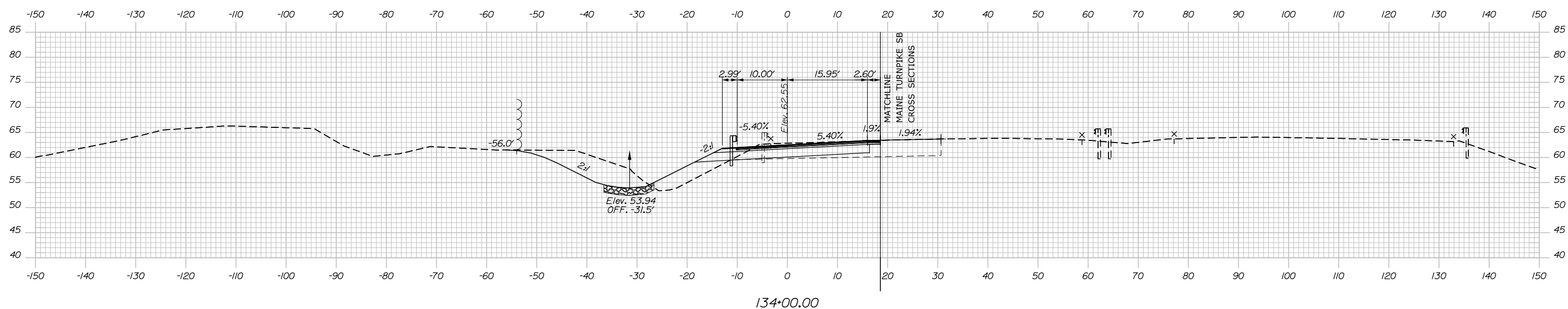
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Date: 9/8/2021

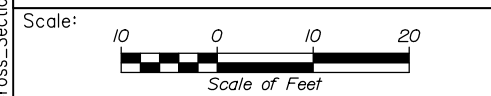
C = 159.1 CY
 F = 75.4 CY
 R = 0 CY
 G = 7.4 CY
 M = 0 CY



C = 267.6 CY
 F = 47.8 CY
 R = 0 CY
 G = 5.5 CY
 M = 0 CY



Filename: PAW2_Cross_Section_SB_48_OFF-7.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	09\21	Checked	PJS	09\21
Drawn	GW	09\21	In Charge of	TRC	09\21

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

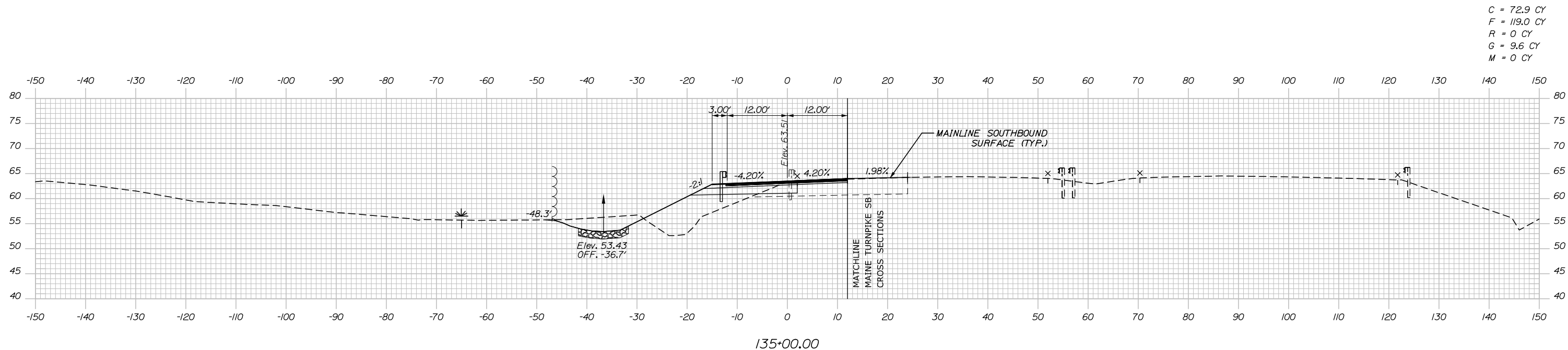
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 134+00 TO STA. 134+50

SHEET NUMBER:
 CONTRACT: 2021.08
 328 OF 376

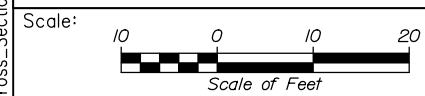
Date: 9/8/2021

Filename: PAW2_Cross_Section_SB_48_OFF-8.dgn



C = 72.9 CY
 F = 119.0 CY
 R = 0 CY
 G = 9.6 CY
 M = 0 CY

135+00.00



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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Designed	JS	09\21	Checked	PJS	09\21
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 RAMP 48 SB OFF CROSS SECTIONS
 STA. 135+00 TO STA. 135+00

SHEET NUMBER:
 329 OF 376

CONTRACT: 2021.08

SPECIFICATIONS

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF NOVEMBER 2014.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, NOVEMBER 2014 WITH LATEST REVISIONS.

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION.

DESIGN LOADING

LIVE LOAD - HL-93

MATERIALS

CONCRETE

CLASS AAA DECK
CLASS AAA
CLASS P

REINFORCING STEEL

AASHTO M31, GRADE 60 EPOXY COATED

ANCHOR BOLTS

ASTM F1554, GRADE 55

STRUCTURAL STEEL

OHSS SUPPORT COLUMNS, ASTM A500, GRADE C
ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A709, GRADE 50

BASIC DESIGN STRESSES

CONCRETE

- CLASS AAA DECK - f'c = 4,500 P.S.I.
- CLASS AAA - f'c = 4,500 P.S.I.
- CLASS P - f'c = 4,500 P.S.I.

REINFORCING STEEL - GRADE 60 fy = 60,000 P.S.I.
- GRADE 75 fy = 75,000 P.S.I.

STRUCTURAL STEEL - ASTM 500, GRADE C; fy = 46,000 P.S.I.
- ASTM 709, GRADE 50; fy = 50,000 P.S.I.

GENERAL NOTES:

- THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM. SOME AS-BUILT PLANS ARE BASED ON NGVD 29 DATUM.
 - COPIES OF THE AS-BUILT PLANS ARE ON FILE AT THE MAINE TURNPIKE AUTHORITY. THE ACCURACY OF THESE PLANS IS NOT GUARANTEED.
 - REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2", UNLESS OTHERWISE NOTED.
 - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
 - DIMENSIONS WITH RESPECT TO EXISTING STRUCTURES ARE APPROXIMATE AND ARE PROVIDED FOR REFERENCE. IF FIELD CONDITIONS VARY BY MORE THAN 1" FROM DIMENSIONS SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED.
 - SNOW FENCE SHALL BE EXTENDED APPROXIMATELY 16'-0" (2 RAIL POST SPACES) ON BOTH SIDES AND ON EACH BOUND AT THE FOLLOWING UNDERPASS BRIDGES:
GORHAM ROAD
I-295 SB INTERCHANGE
RUNNING HILL ROAD
- SNOW FENCE SHALL BE PAID FOR UNDER PAY ITEM 607.431. SEE SNOW FENCE DETAILS ON SHEET S-02.

QUANTITY TABLE

ITEM NO.	DESCRIPTION	UNIT	STRUCTURAL QUANTITY
202.12	REMOVE EXISTING STRUCTURAL CONCRETE	CY	10
502.5651	FLOWABLE CONCRETE FILL	CY	135
502.57	CONCRETE CAP	CY	15
513.09	SLOPE PROTECTION - PORTLAND CEMENT CONCRETE	SY	200
514.06	CURING BOX FOR CONCRETE CYLINDERS	EA	1
526.352	MEDIAN BARRIER - TYPE B (11,600 LF)	LS	1
526.353	MEDIAN BARRIER - TYPE C (400 LF)	LS	1
526.354	MEDIAN BARRIER - TYPE D (1,700 LF)	LS	1
526.361	BRIDGE END POST TRANSITION BARRIER	EA	4
526.362	TYPE C TRANSITION BARRIER	EA	2
526.363	TYPE D TRANSITION BARRIER	EA	12
526.364	OHSS FOUNDATION TRANSITION BARRIER	EA	2
607.183	CHAIN LINK SNOW FENCE	LF	192
610.071	STONE FILL	CY	470
626.34	OVERHEAD SIGN STRUCTURE FOUNDATION	LS	1
626.38	GROUND MOUNTED CABINET FOUNDATIONS	EA	1
645.124	REMOVAL, DISASSEMBLY AND RELOCATION OF VMS AND SUPPORTING STRUCTURE	LS	1

LIST OF ABBREVIATIONS


ABUT. - ABUTMENT	EXIST. - EXISTING	PROP. - PROPOSED
ADDL. - ADDITIONAL	EXP. - EXPANSION	P.S.I. - POUNDS per SQUARE INCH
ALT. - ALTERNATE	F.F. - FAR FACE	RCP - REINFORCED CONCRETE PIPE
APPROX. - APPROXIMATELY	JT. - JOINT	RDWY. - ROADWAY
BOT. - BOTTOM	LF - LINEAR FOOT	RT. - RIGHT
BRG. - BEARING	LT. - LEFT	SHLDR. - SHOULDER
CB - CATCH BASIN	MAX. - MAXIMUM	SB - SOUTHBOUND
CIP - CAST IN PLACE	MEDOT - MAINE DEPARTMENT OF TRANSPORTATION	SF - SQUARE FEET
CL. - CLEAR/CLASS	MIN. - MINIMUM	SP. - SPACES
CL - CENTERLINE	MTA - MAINE TURNPIKE AUTHORITY	STA. - STATION
CONC. - CONCRETE	NB - NORTHBOUND	TEMP. - TEMPORARY
CONSTR. - CONSTRUCTION	N.F. - NEAR FACE	T.&B. - TOP & BOTTOM
CY - CUBIC YARD	N.T.S. - NOT TO SCALE	TPKE. - TURNPIKE
DEMO. - DEMOLITION	OC - ON CENTER	TYP. - TYPICAL
DIA. - DIAMETER	OHSS - OVERHEAD SIGN STRUCTURE	U.O.N. - UNLESS OTHERWISE NOTED
EA. - EACH	OPT - OPTION	VERT. - VERTICAL
EB - EASTBOUND	PED. - PEDESTAL	V.I.F. - VERIFY IN FIELD
E.F. - EACH FACE	PGL - PROFILE GRADE LINE	WB - WESTBOUND
EL - ELEVATION	PL - PLATE	W.P. - WORKING POINT
EQ. - EQUAL		WW - WINGWALL

INDEX OF DRAWINGS


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331	SNOW FENCE DETAIL	S-02
332	MEDIAN BARRIER LAYOUT (1 OF 22)	BL-01
333	MEDIAN BARRIER LAYOUT (2 OF 22)	BL-02
334	MEDIAN BARRIER LAYOUT (3 OF 22)	BL-03
335	MEDIAN BARRIER LAYOUT (4 OF 22)	BL-04
336	MEDIAN BARRIER LAYOUT (5 OF 22)	BL-05
337	MEDIAN BARRIER LAYOUT (6 OF 22)	BL-06
338	MEDIAN BARRIER LAYOUT (7 OF 22)	BL-07
339	MEDIAN BARRIER LAYOUT (8 OF 22)	BL-08
340	MEDIAN BARRIER LAYOUT (9 OF 22)	BL-09
341	MEDIAN BARRIER LAYOUT (10 OF 22)	BL-10
342	MEDIAN BARRIER LAYOUT (11 OF 22)	BL-11
343	MEDIAN BARRIER LAYOUT (12 OF 22)	BL-12
344	MEDIAN BARRIER LAYOUT (13 OF 22)	BL-13
345	MEDIAN BARRIER LAYOUT (14 OF 22)	BL-14
346	MEDIAN BARRIER LAYOUT (15 OF 22)	BL-15
347	MEDIAN BARRIER LAYOUT (16 OF 22)	BL-16
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349	MEDIAN BARRIER LAYOUT (18 OF 22)	BL-18
350	MEDIAN BARRIER LAYOUT (19 OF 22)	BL-19
351	MEDIAN BARRIER LAYOUT (20 OF 22)	BL-20
352	MEDIAN BARRIER LAYOUT (21 OF 22)	BL-21
353	MEDIAN BARRIER LAYOUT (22 OF 22)	BL-22
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355	MEDIAN BARRIER PIER PROTECTION - PIER PROTECTION LAYOUT I	BD-02
356	MEDIAN BARRIER PIER PROTECTION - PIER PROTECTION LAYOUT II	BD-03
357	MEDIAN BARRIER PIER PROTECTION - PIER PROTECTION LAYOUT III	BD-04
358	MEDIAN BARRIER PIER PROTECTION - PIER PROTECTION LAYOUT IV	BD-05
359	MEDIAN BARRIER - PIER PROTECTION - BRIDGE END POST - TRANSITION LAYOUT	BD-06
360	MEDIAN BARRIER - MEDIAN BARRIER - TYPE B	BD-07
361	MEDIAN BARRIER - MEDIAN BARRIER - TYPE C	BD-08
362	MEDIAN BARRIER - MEDIAN BARRIER - TYPE D	BD-09
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364	MEDIAN BARRIER - TYPE D TRANSITION BARRIER	BD-11
365	BARRIER DETAILS IV - BRIDGE ENDPST TRANSITION	BD-12
366	MEDIAN BARRIER - OHSS FOUNDATION TRANSITION BARRIER	BD-13
367	SLOPE PROTECTION MODIFICATIONS - DEMOLITION - WESTBROOK STREET	BD-14
368	SLOPE PROTECTION MODIFICATIONS - PROPOSED LAYOUT - WESTBROOK STREET	BD-15
369	SLOPE PROTECTION MODIFICATIONS - REPAIR DETAILS - EXIT 48	BD-16
370	VARIABLE MESSAGE SIGN - GENERAL NOTES	SS-01
371	VARIABLE MESSAGE SIGN - WIRING DIAGRAM	SS-02
372	OVERHEAD SIGN STRUCTURE - STA. 2383+00.00 SOUTHBOUND	SS-03
373	OVERHEAD SIGN STRUCTURE - FOUNDATION I	SS-04
374	OVERHEAD SIGN STRUCTURE - FOUNDATION II	SS-05
375	OVERHEAD SIGN STRUCTURE - COLUMN SUPPORT DETAILS	SS-06
376	VARIABLE MESSAGE SIGNS - CABINET	SS-07

Date: 9/8/2021

Filename: PAW2_GeneralNotes

Scale:				Designed by:			
NO SCALE							
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	BRG 09\21	Checked	JDW 09\21
				Drawn	ERB 09\21	In Charge of	TRC 09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

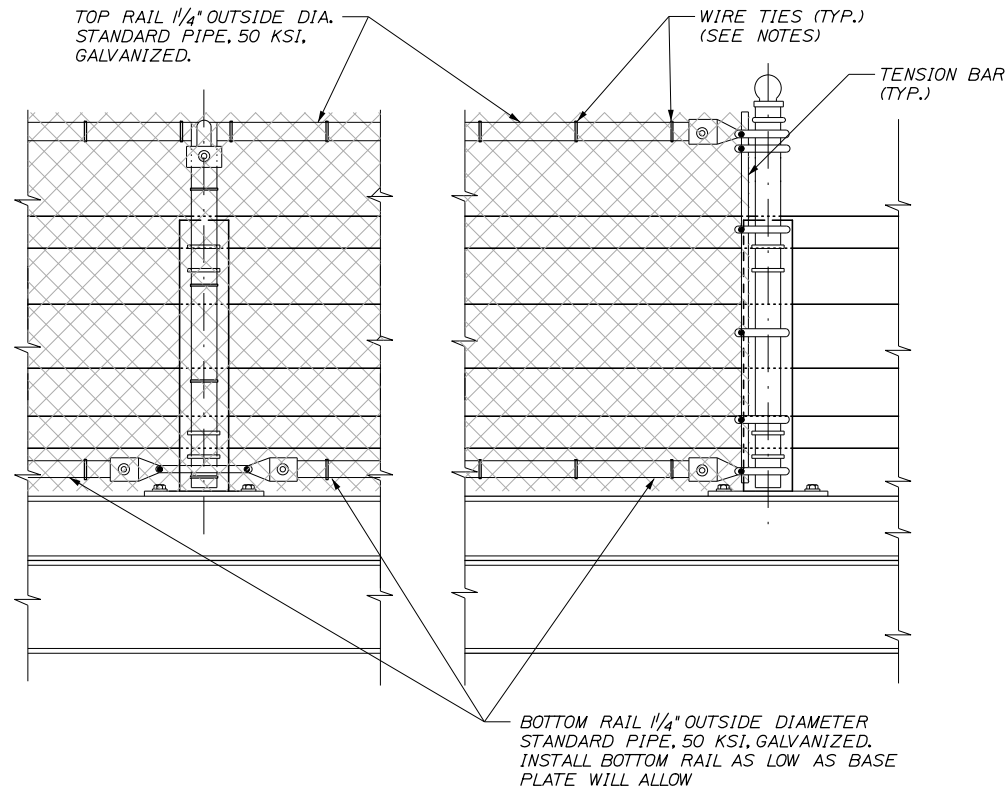
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

STRUCTURAL GENERAL NOTES

SHEET NUMBER: S-01

CONTRACT: 2021.08 330 OF 376

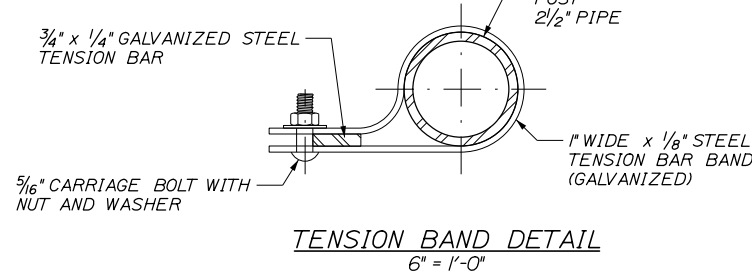
Date: 9/8/2021



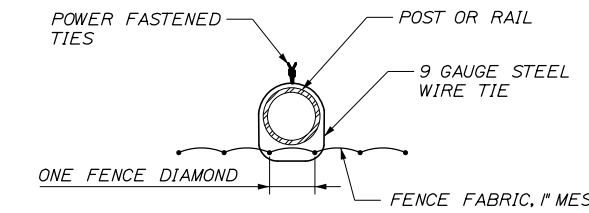
**ELEVATION
INTERIOR POST**

**ELEVATION
END POST**

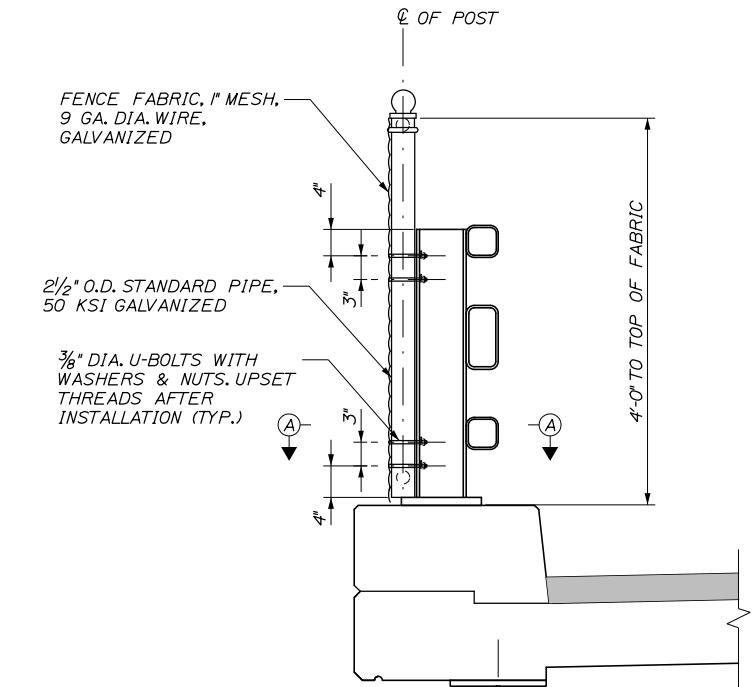
**SNOW FENCE POST ATTACHMENT
TO TWO-RAIL RAILING**
1\"/>



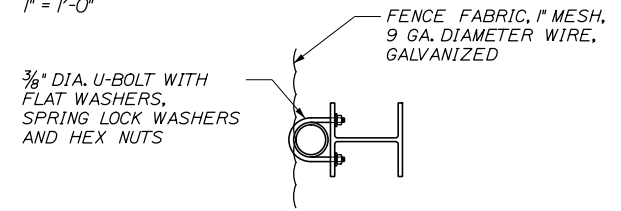
TENSION BAND DETAIL
6\"/>



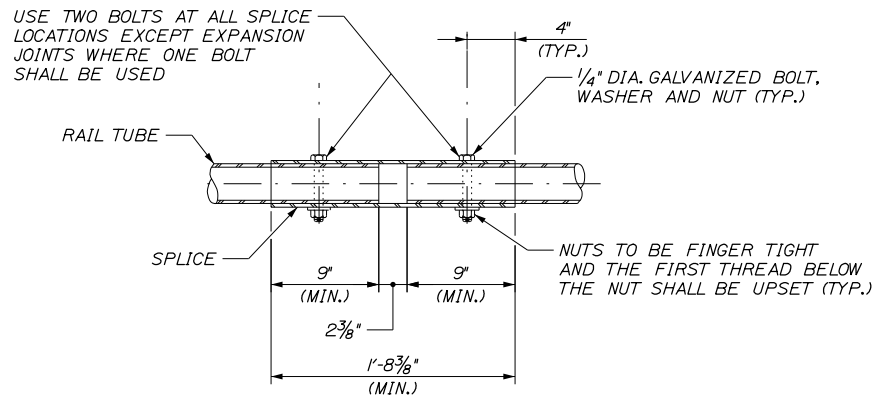
POWER FASTENED TIE
NOT TO SCALE



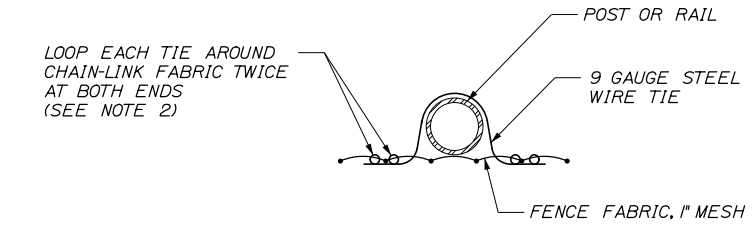
CURB DETAIL
1\"/>



SECTION A-A
1/2\"/>



**TYPICAL RAIL SPLICE DETAIL
(TOP & BOTTOM RAIL)**
1/2\"/>



DOUBLE PIGTAILED TIE - ALTERNATE
NOT TO SCALE

NOTES:

1. ROUND WIRE TIES SHALL BE 9 GAUGE ZINC-COATED STEEL PREFORMED TO THE RADIUS OF THE POST AND POWER-FASTENED TO WRAP 360 DEGREES AROUND THE POST AND ONE COMPLETE DIAMOND OF THE CHAIN-LINK FENCE. THE TWO ENDS SHALL BE TWISTED TOGETHER IN A CLOSE HELIX OF 1/2 MACHINE TURNS (3 FULL TWISTS) TIGHTLY AROUND THE POST AND CHAIN-LINK FABRIC. SPACE TIES @ 6' O.C. TO BOTTOM RAIL AND @ 12' O.C. TO ALL POSTS AND OTHER RAILS. TWISTED ENDS SHALL BE BENT DOWN UPON COMPLETION.
2. ALTERNATIVELY, WIRE TIES MAY BE STANDARD ROUND 9 GAUGE ZINC-COATED STEEL. ALL TIES SHALL BE WRAPPED AROUND CHAIN-LINK FABRIC TWICE (DOUBLE PIGTAILED) AT BOTH ENDS. SPACE TIES @ 6' O.C. TO BOTTOM RAIL AND @ 12' O.C. TO ALL POSTS AND OTHER RAILS.
3. ALL BOLTS AND NUTS SHALL BE STEEL CONFORMING TO ASTM A 307 AND ASTM A 563 GRADE A RESPECTIVELY. WASHERS SHALL BE HARDENED STEEL COMMERCIAL TYPE A PLAIN AND SHALL MEET THE DIMENSIONAL REQUIREMENTS OF ANSI B18.22. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123) OR AASHTO M 232 (ASTM A 153) AS APPLICABLE.
4. SEE GENERAL NOTE 6 ON SHEET S-01 FOR SNOW FENCE LIMITS.
5. POST CAPS SHALL BE SECURELY ATTACHED TO POSTS.
6. FENCE FABRIC SHALL EXTEND TO TOP OF CURB

Scale: NO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

SNOW FENCE DETAILS

SHEET NUMBER: S-02

CONTRACT: 2021.08

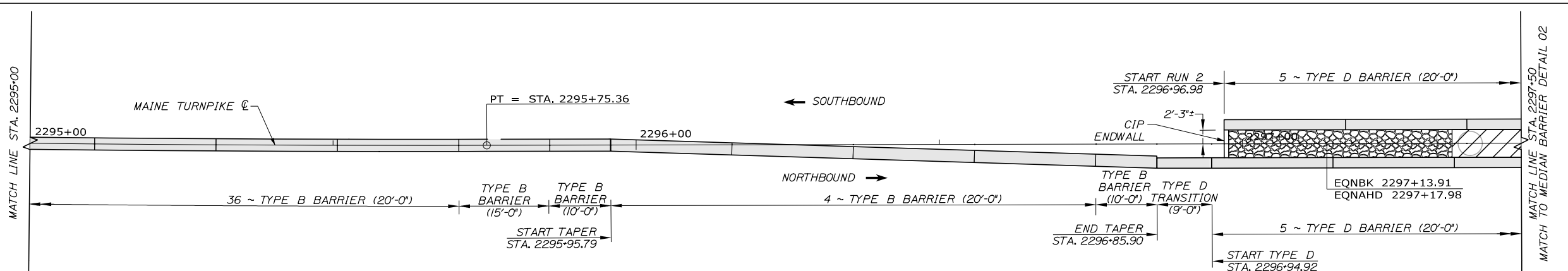
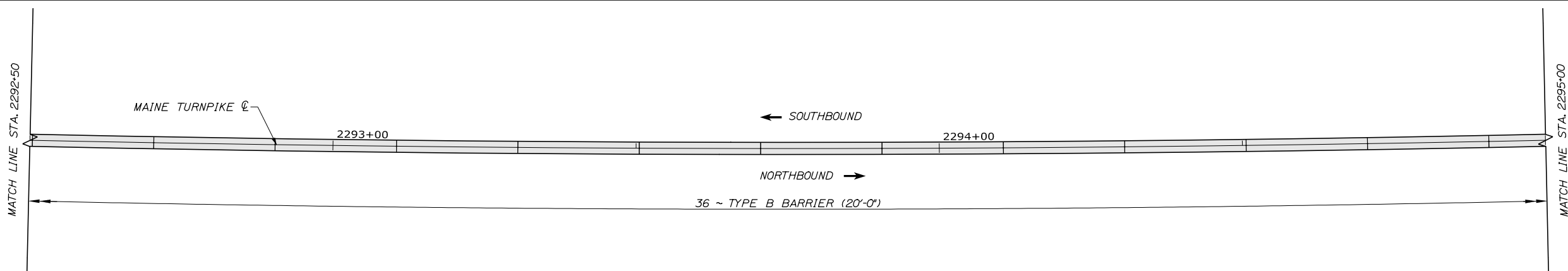
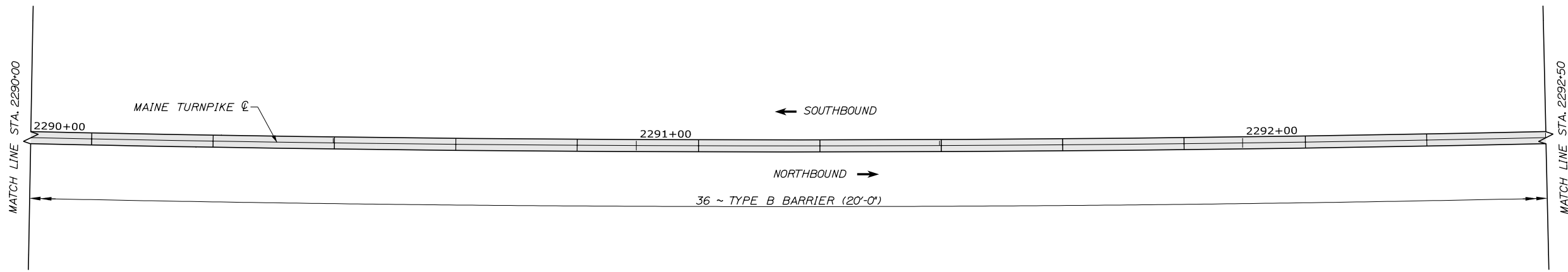
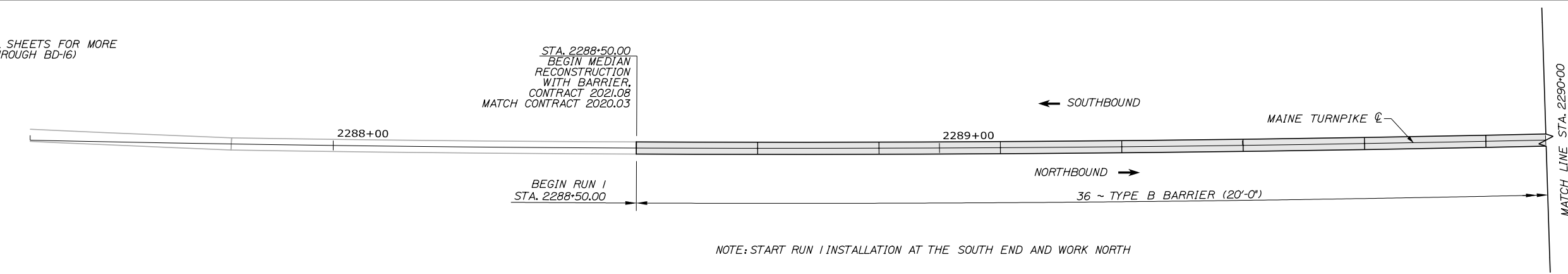
3310F 376

NOTE:
SEE BARRIER DETAIL SHEETS FOR MORE
INFORMATION (BD-01 THROUGH BD-16)

STA. 2288+50.00
BEGIN MEDIAN
RECONSTRUCTION
WITH BARRIER,
CONTRACT 2021.08
MATCH CONTRACT 2020.03

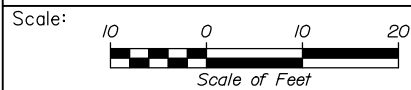
BEGIN RUN 1
STA. 2288+50.00

NOTE: START RUN 1 INSTALLATION AT THE SOUTH END AND WORK NORTH



Date: 9/8/2021

Filename: PAW2_Median_Barrier_01.dgn



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (1 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	By	Date	Checked	By	Date
Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

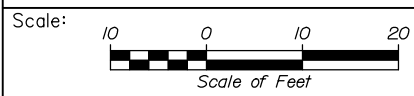
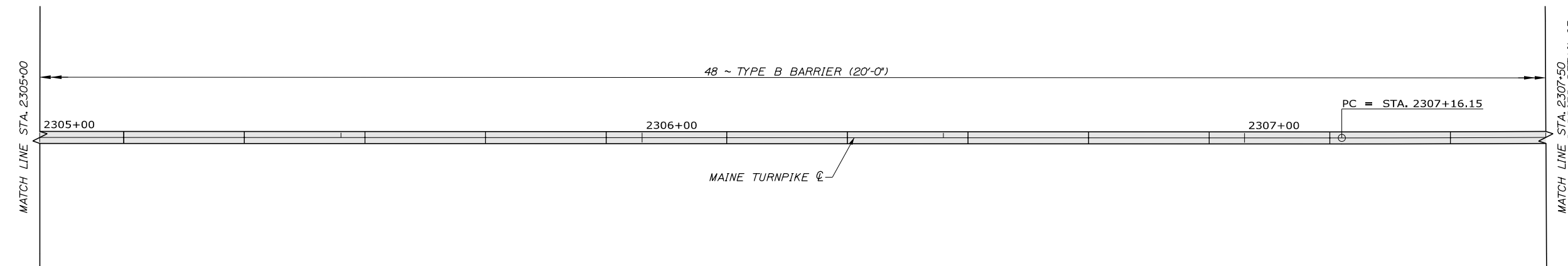
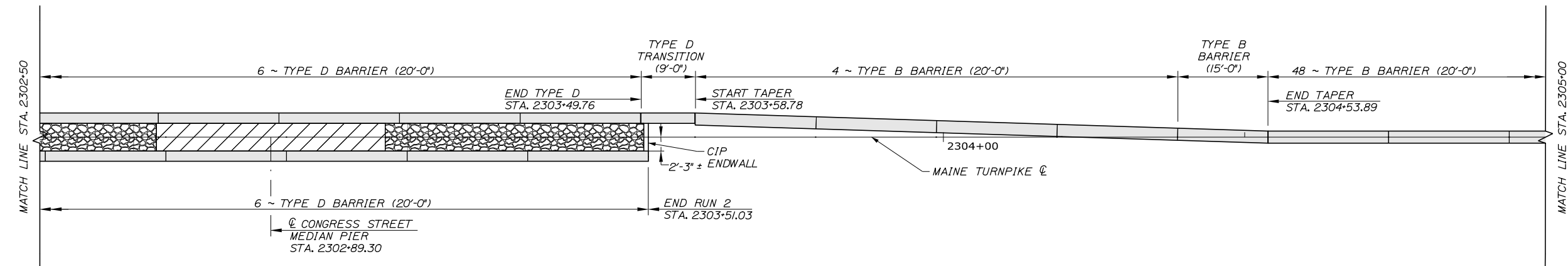
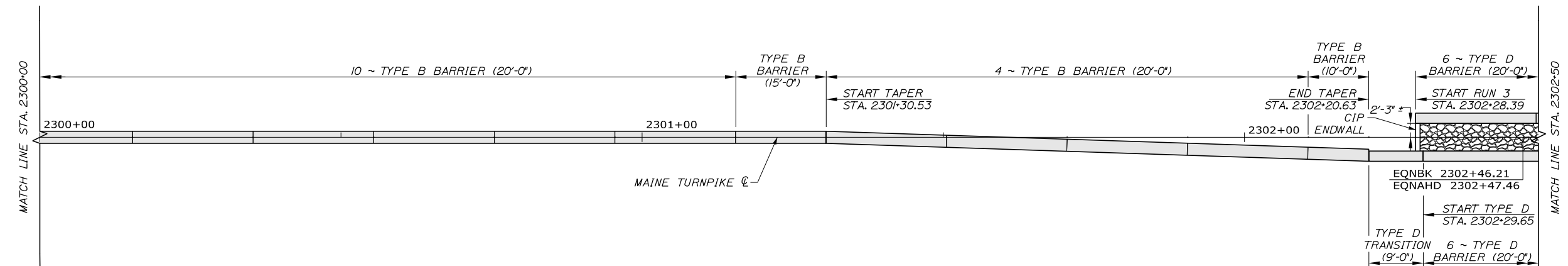
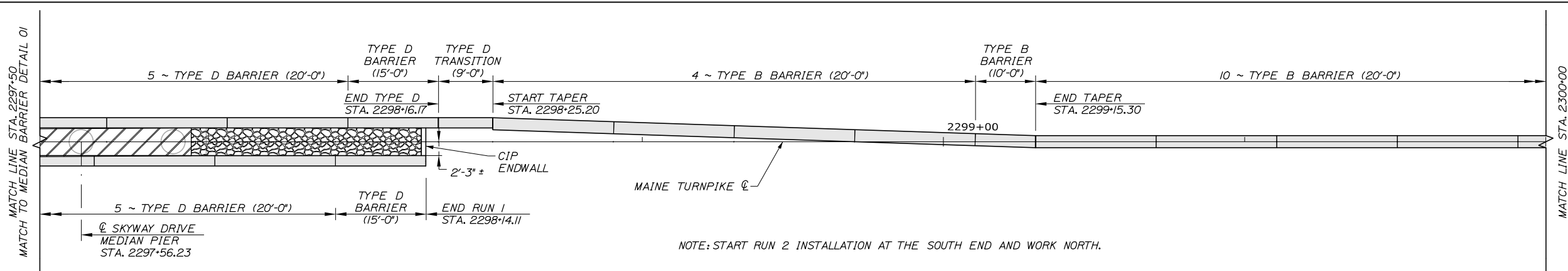
CONTRACT: 2021.08

SHEET NUMBER: BL-01

332 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_02.dgn



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

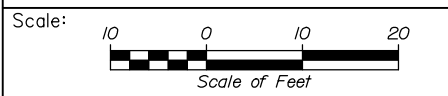
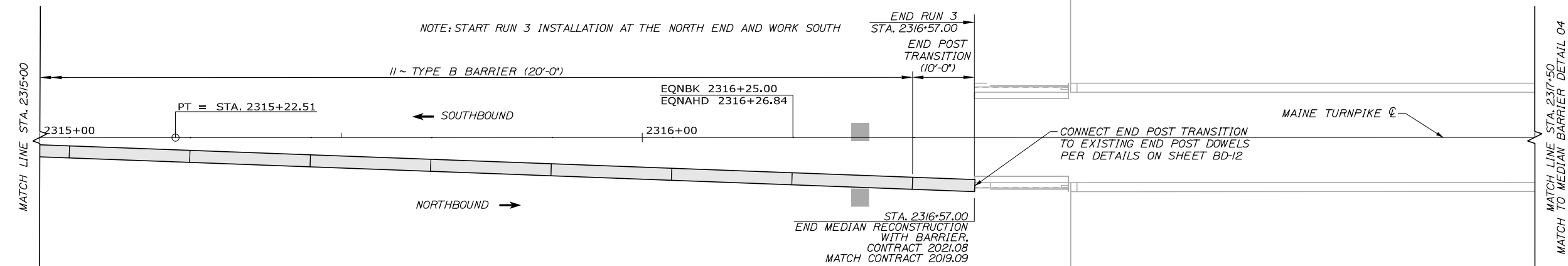
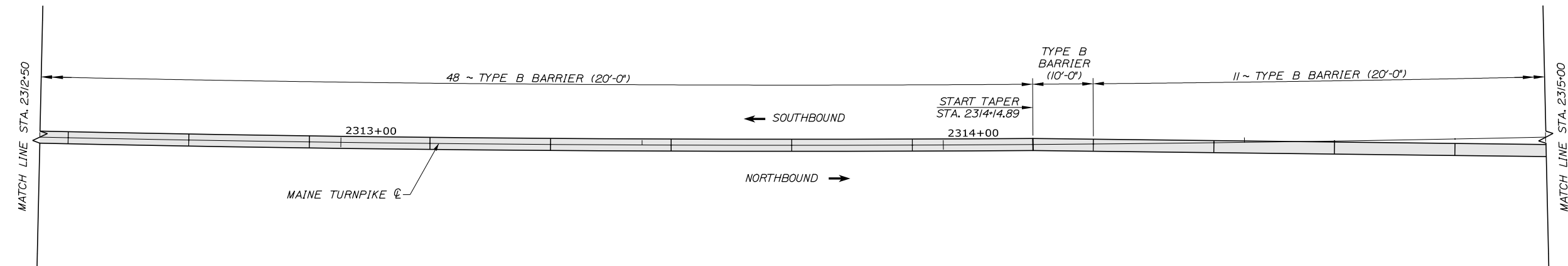
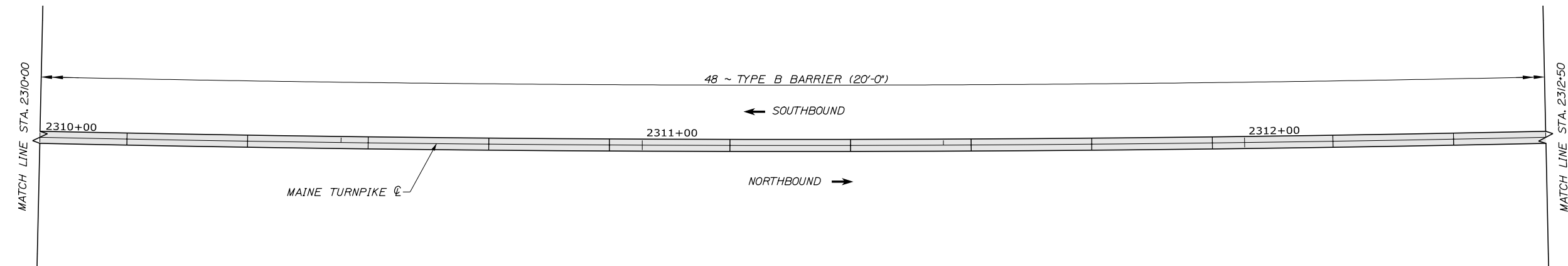
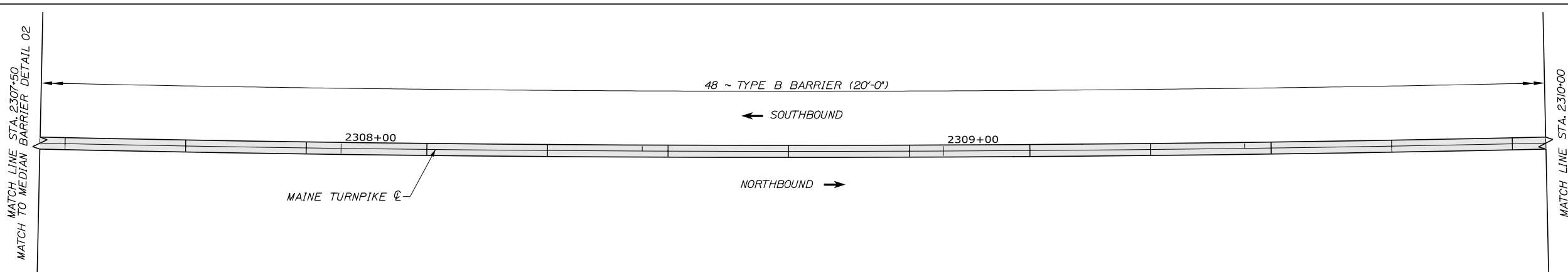
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (2 OF 22)

SHEET NUMBER: BL-02
 333 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Median_Barrier_03.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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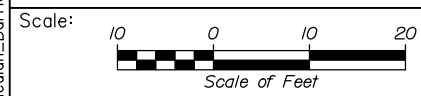
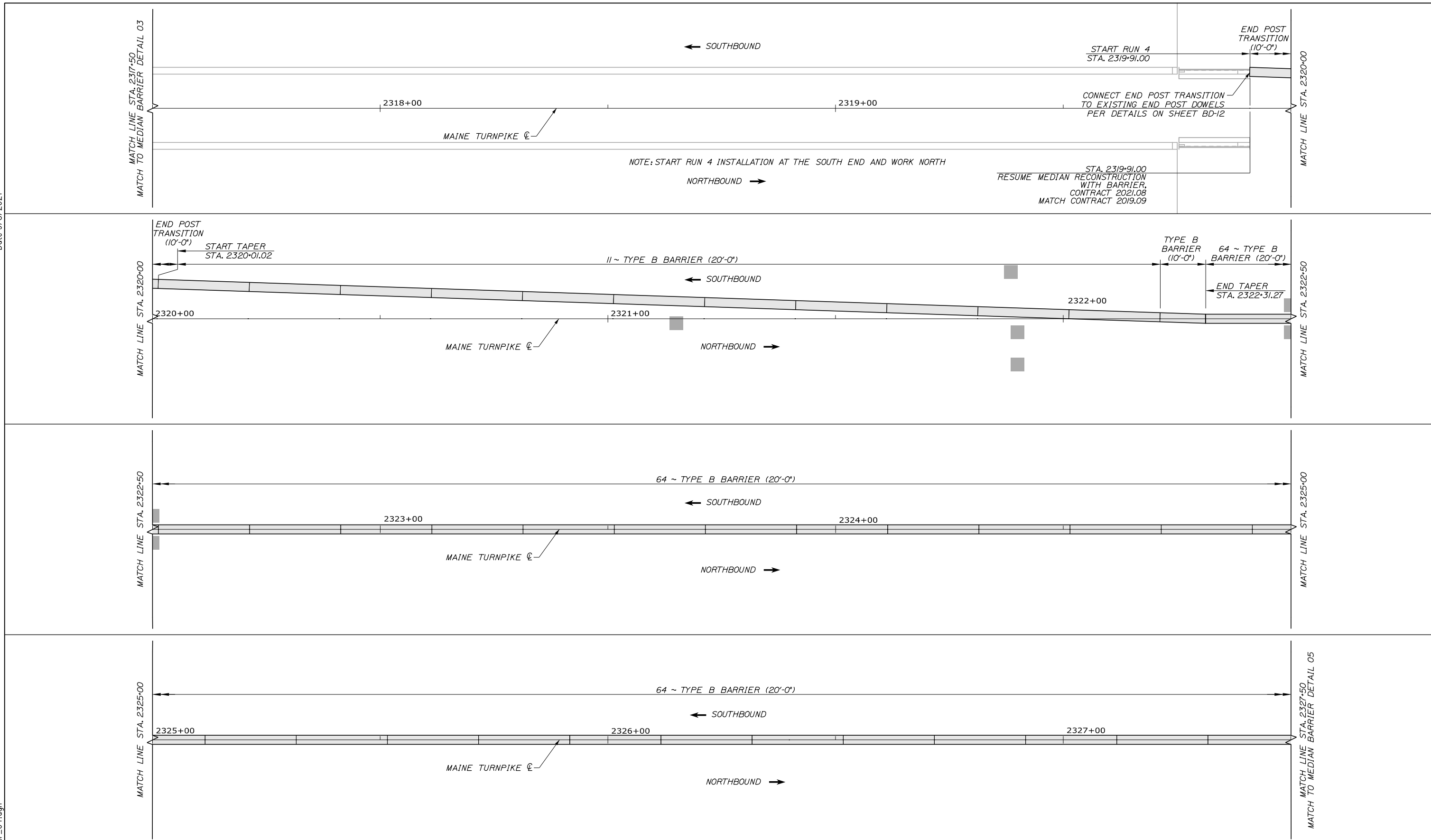
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
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 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (3 OF 22)

SHEET NUMBER: BL-03
 CONTRACT: 2021.08
 334 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_04.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

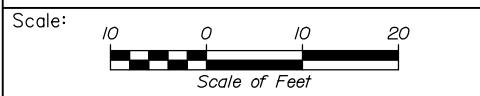
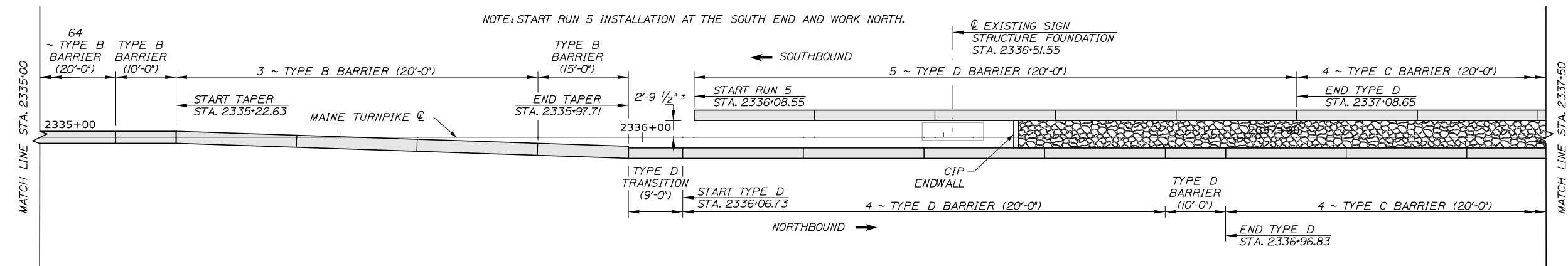
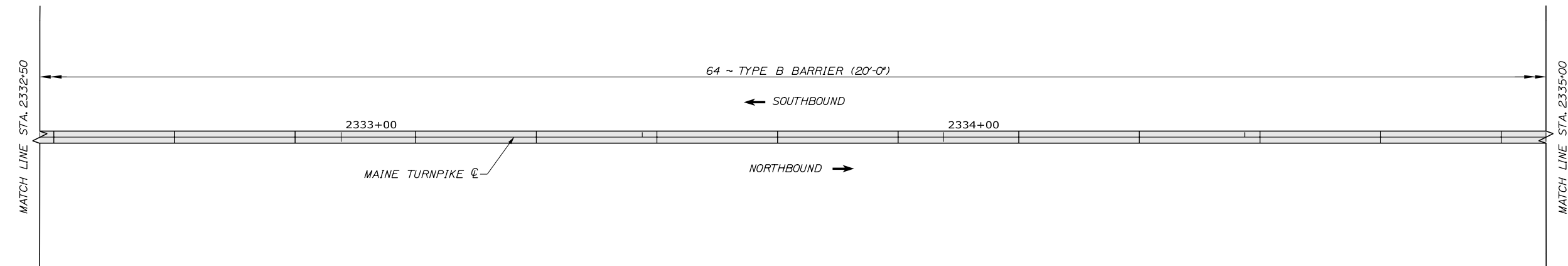
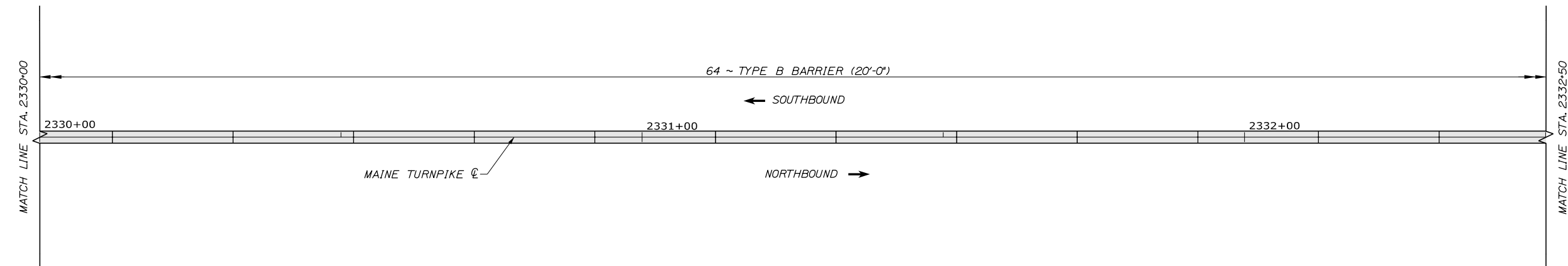
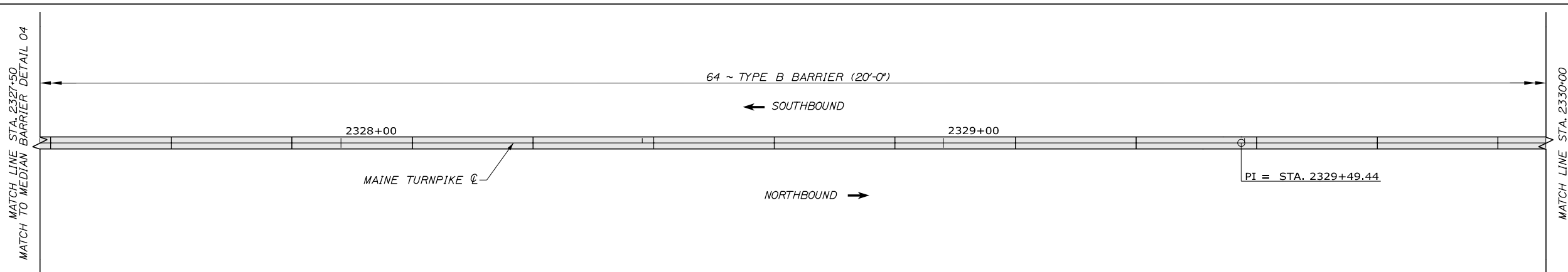
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (4 OF 22)

SHEET NUMBER: BL-04
335 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Median_Barrier_05.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

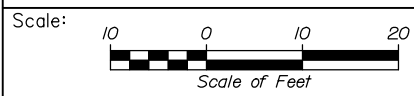
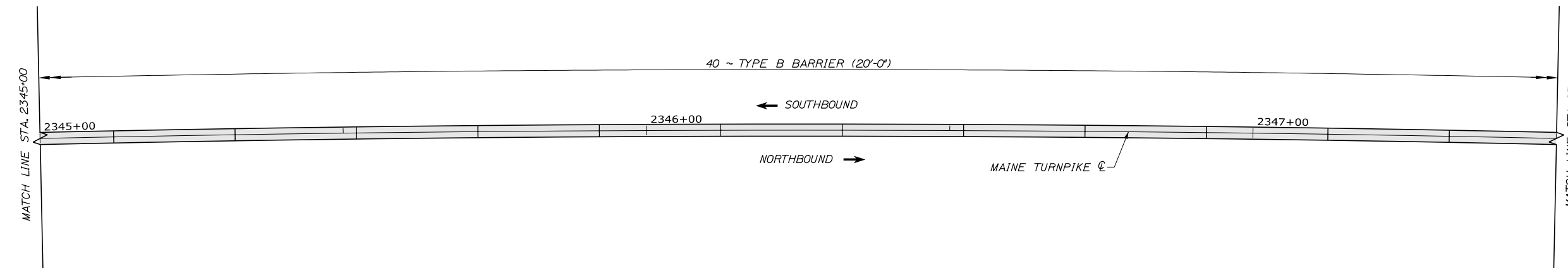
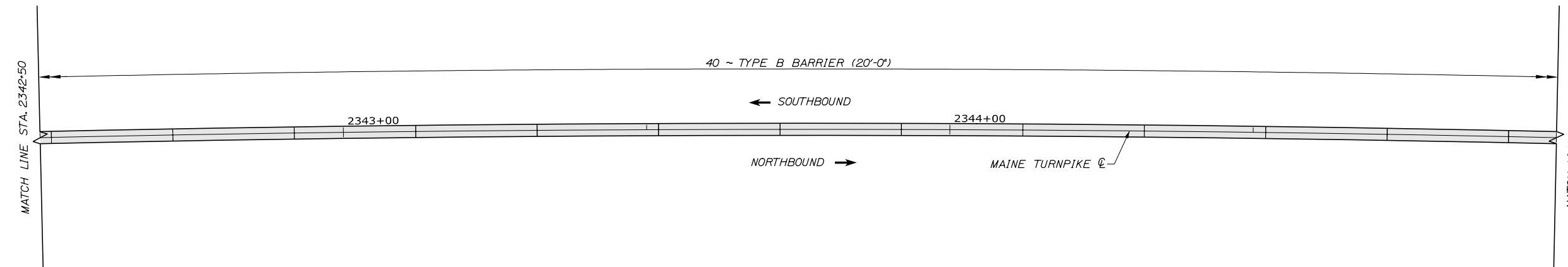
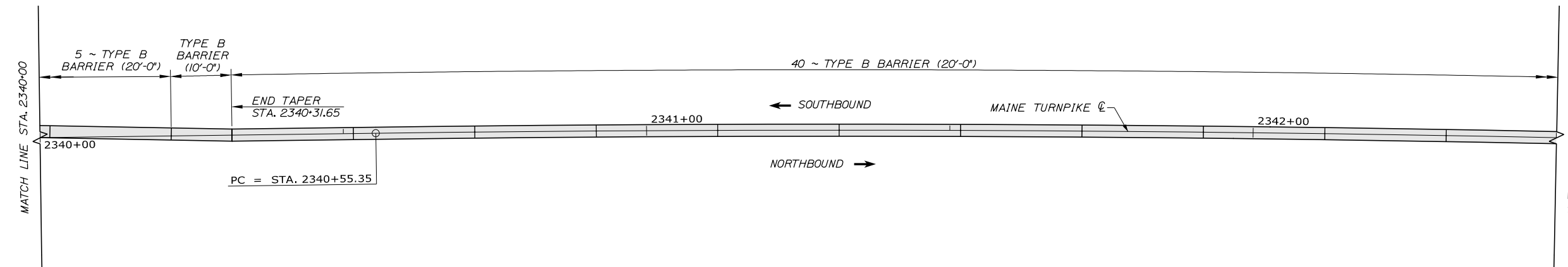
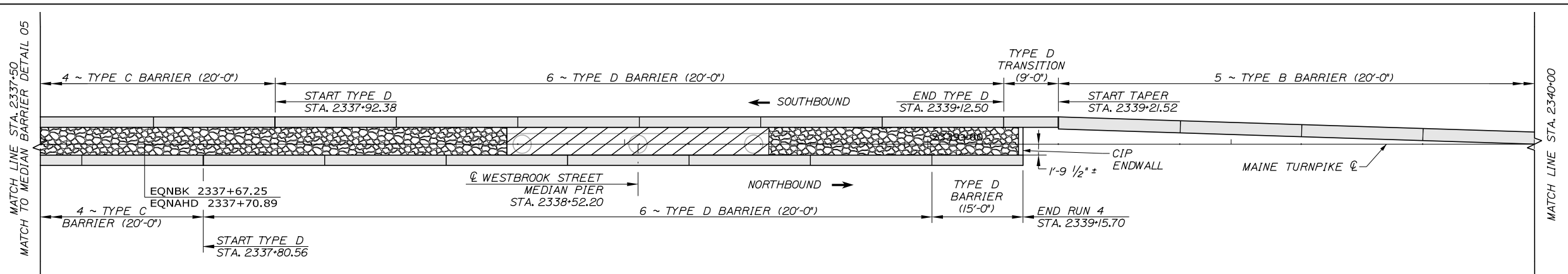
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (5 OF 22)

SHEET NUMBER: BL-05
336 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Median_Barrier_06.dgn



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

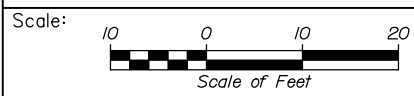
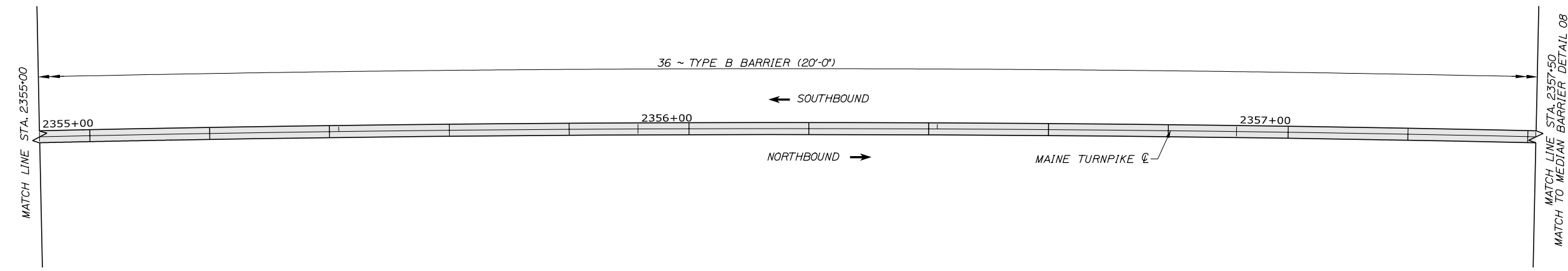
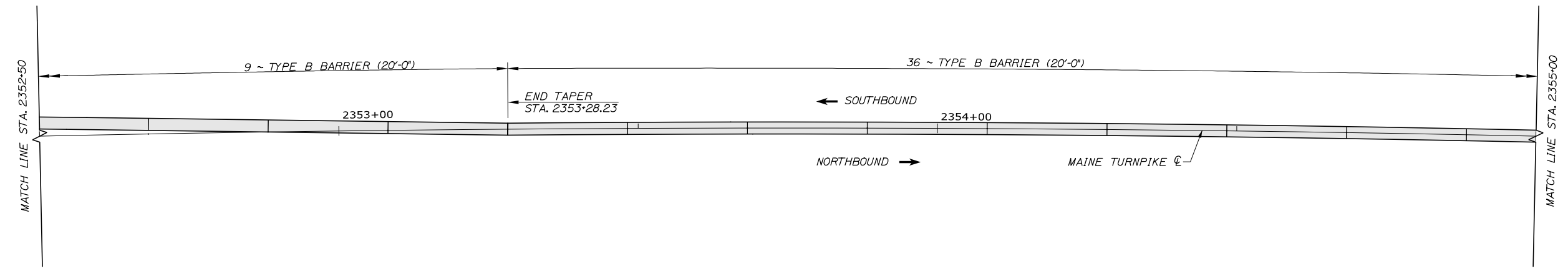
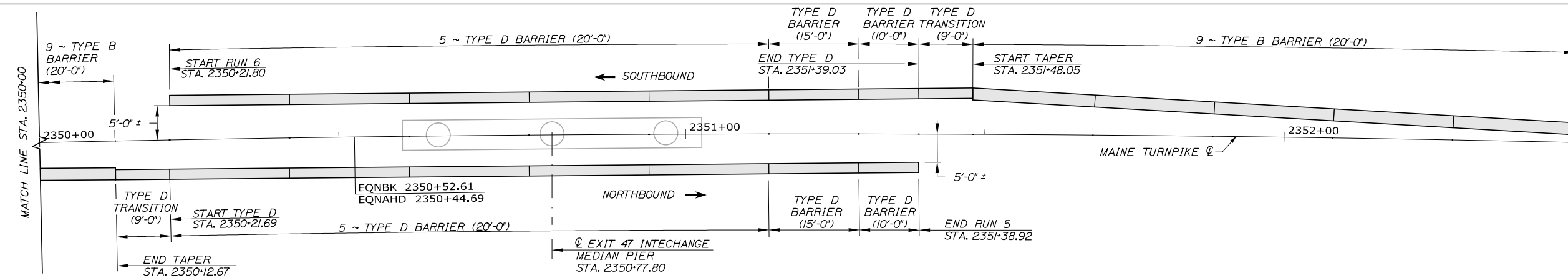
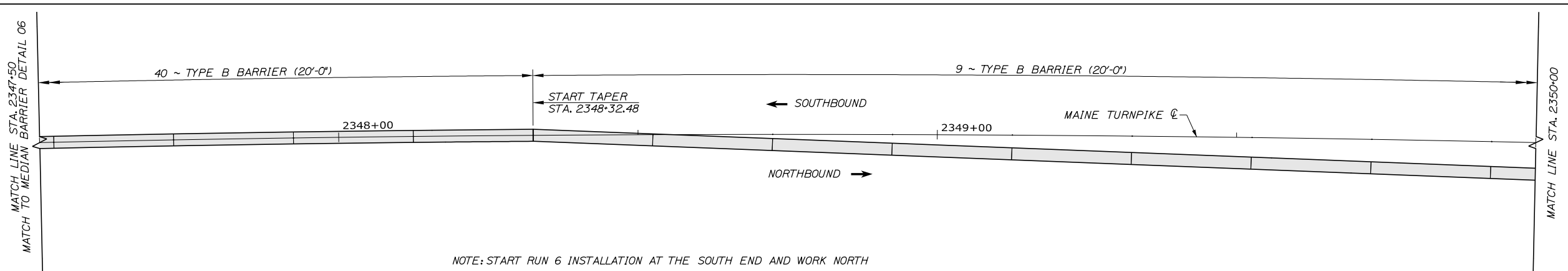
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (6 OF 22)

SHEET NUMBER: BL-06
 337 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Median_Barrier_07.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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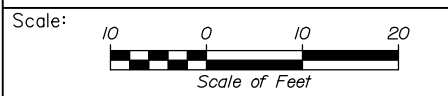
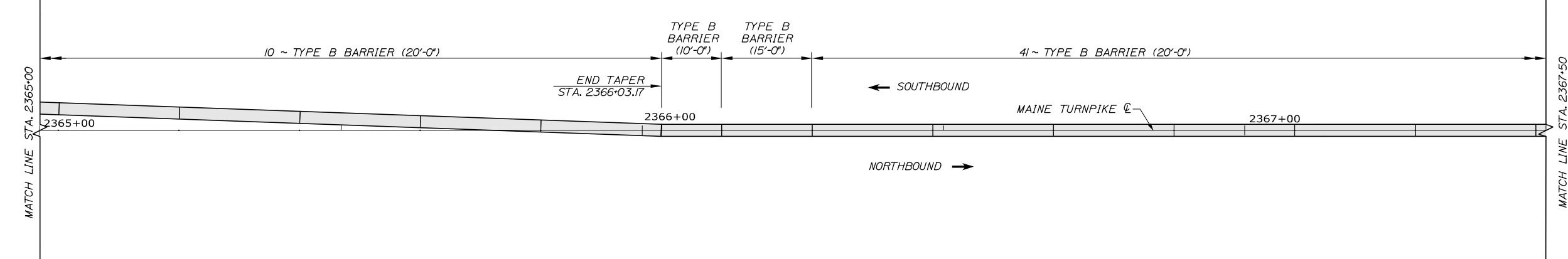
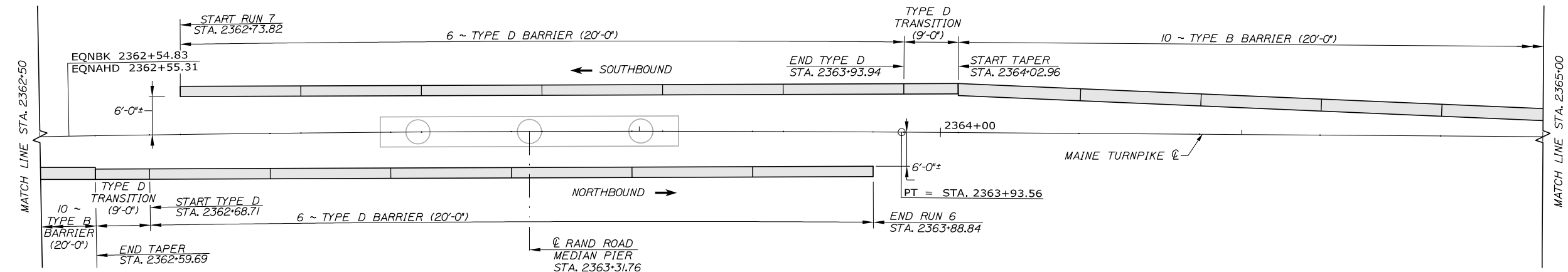
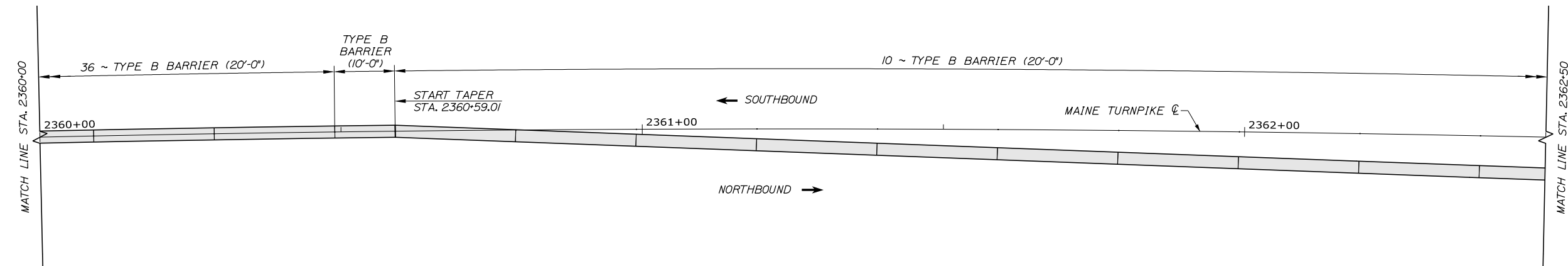
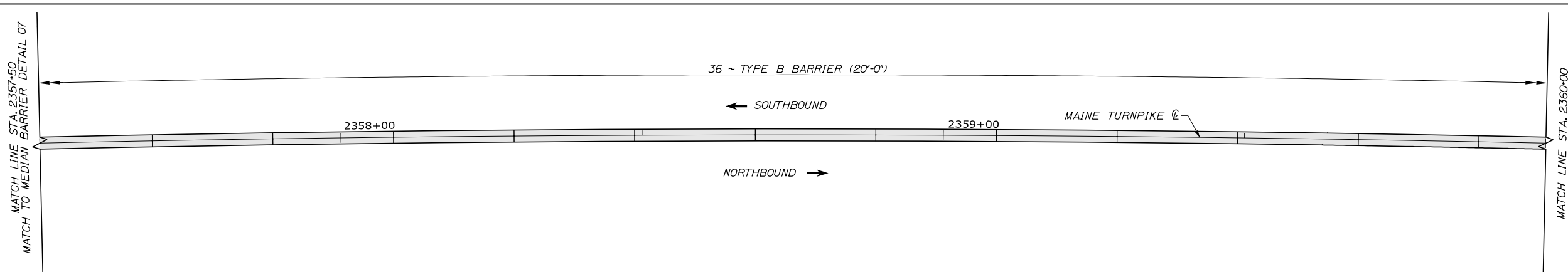
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (7 OF 22)

SHEET NUMBER: BL-07
 CONTRACT: 2021.08
 338 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_08.dgn



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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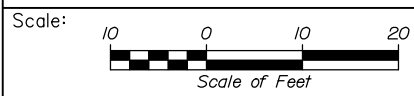
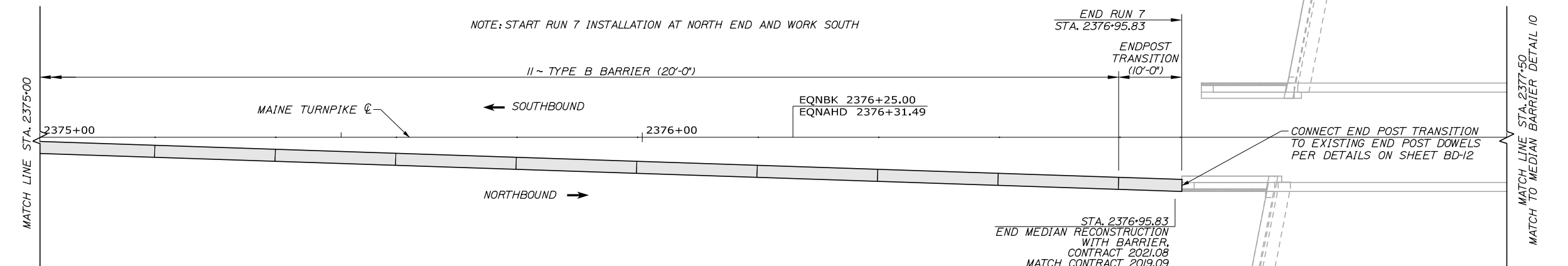
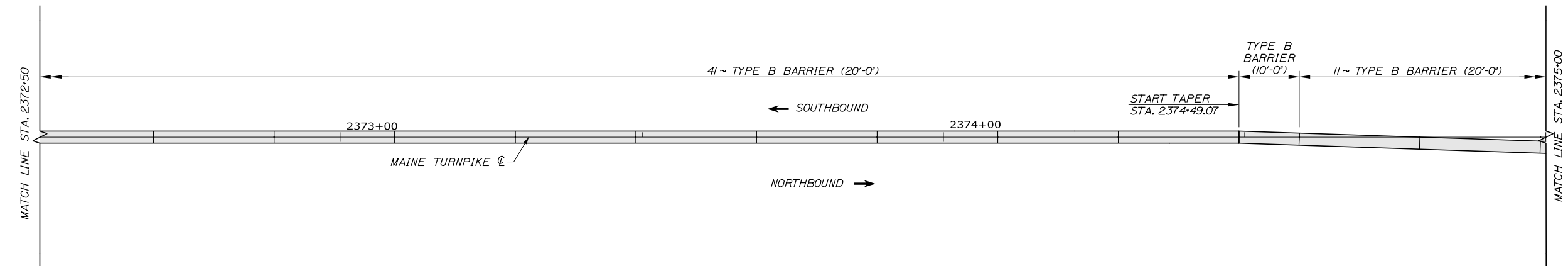
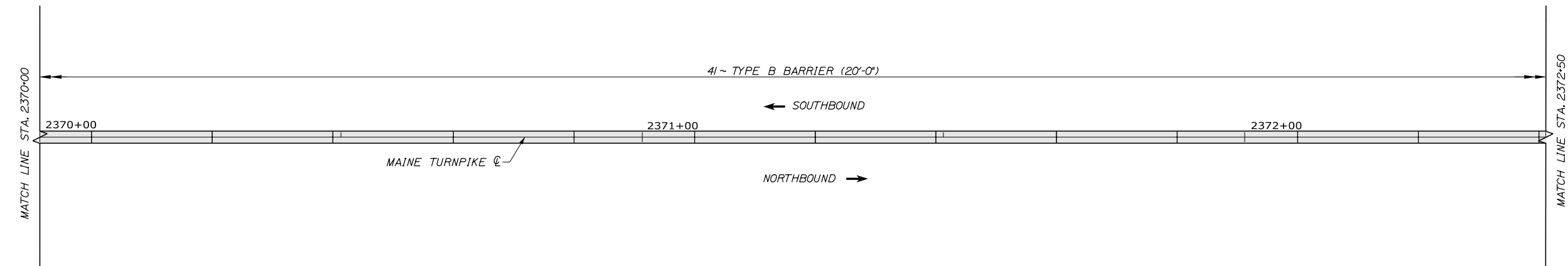
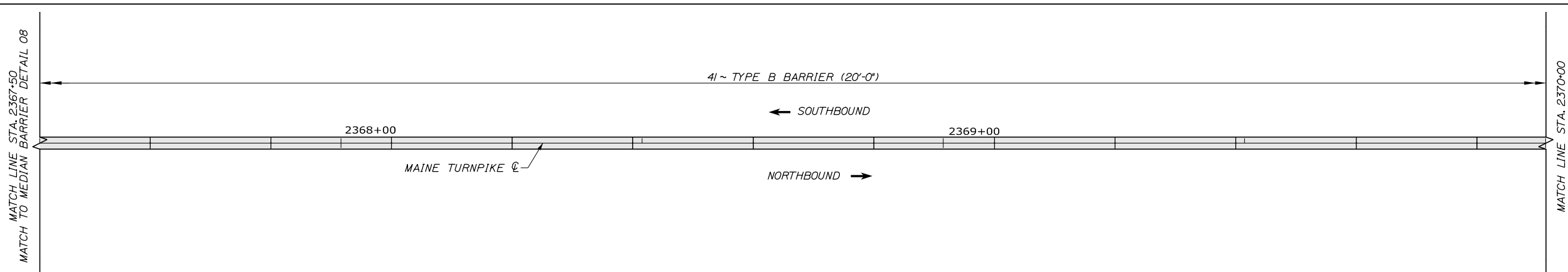
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (8 OF 22)

SHEET NUMBER: BL-08
 CONTRACT: 2021.08
 339 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_09.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

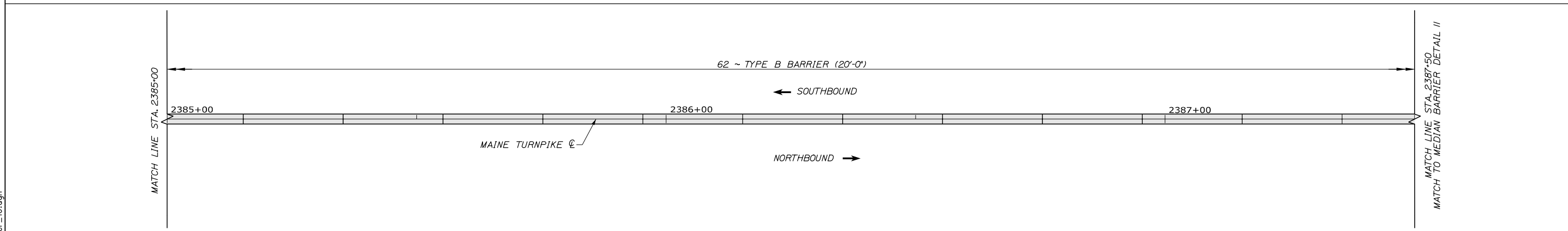
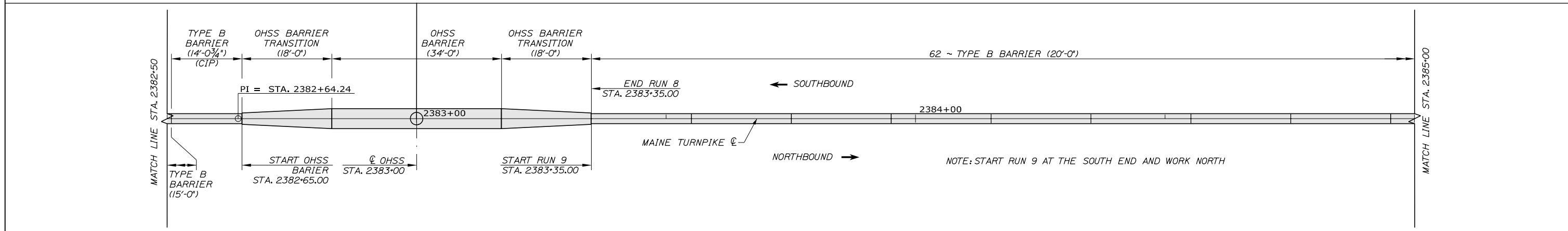
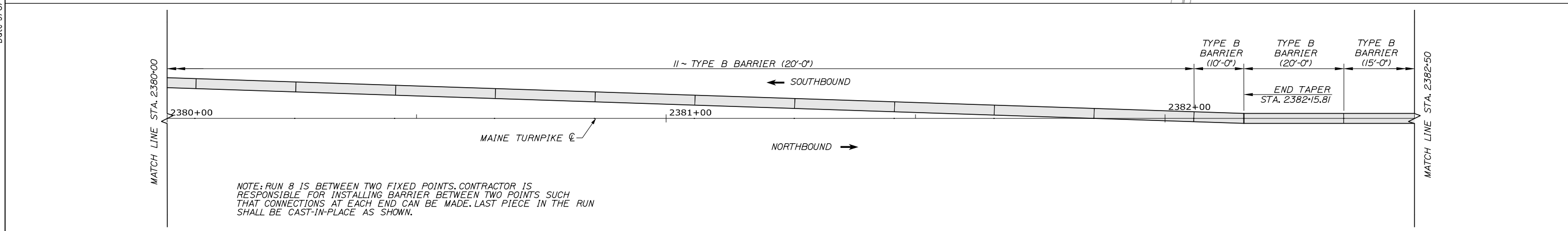
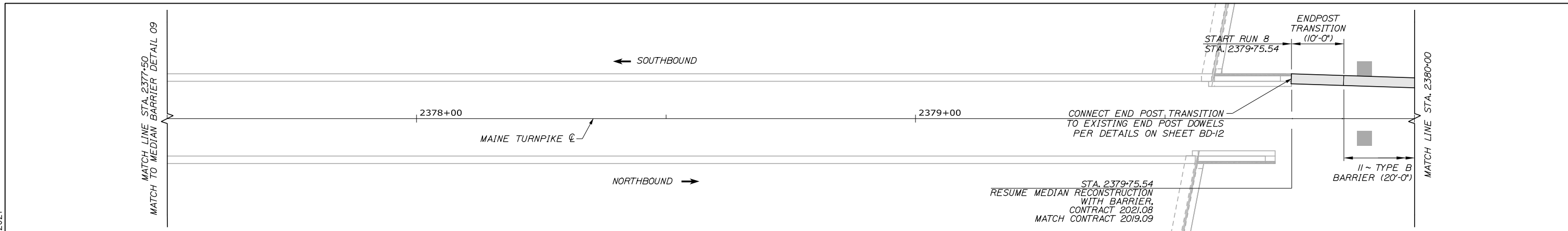
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (9 OF 22)

SHEET NUMBER: BL-09
340 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Median_Barrier_10.dgn



Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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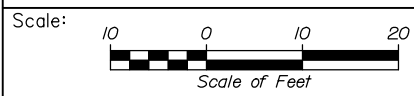
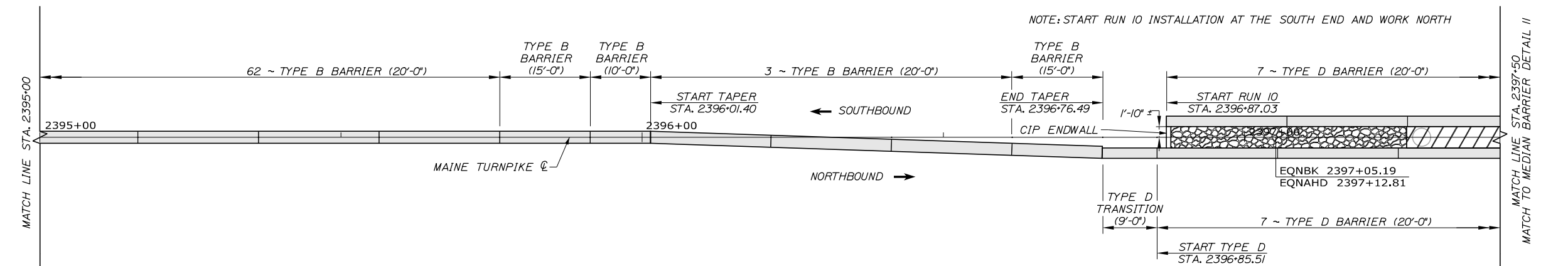
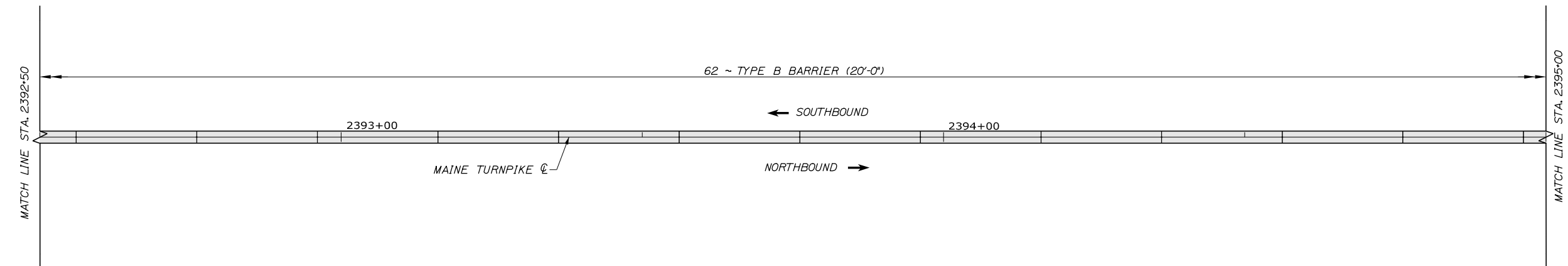
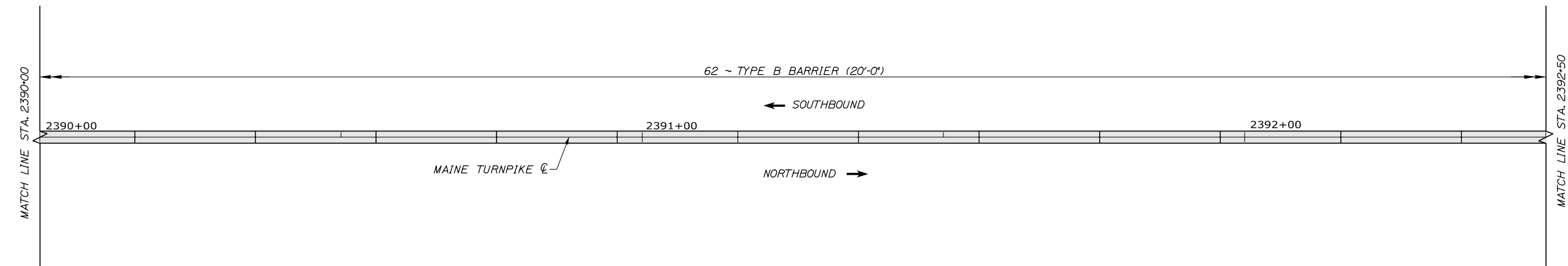
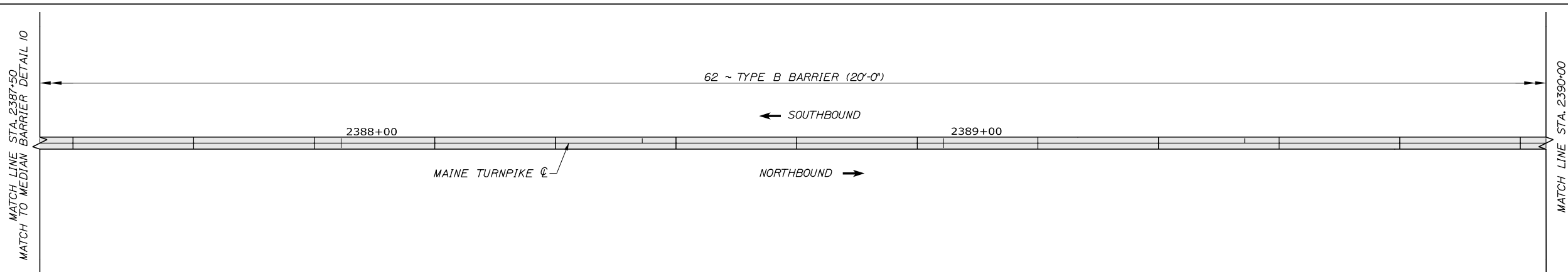
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (10 OF 22)

SHEET NUMBER: BL-10
 CONTRACT: 2021.08
 341 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_11.dgn



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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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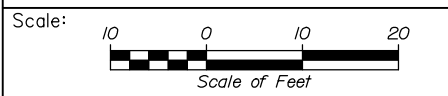
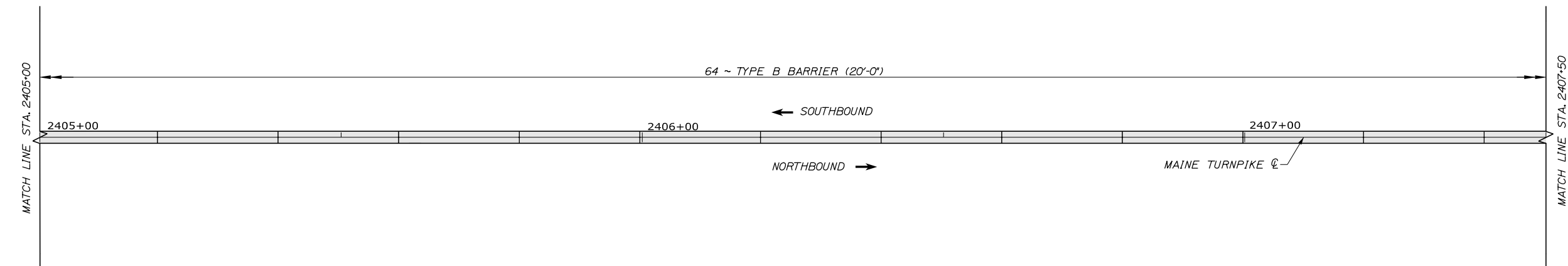
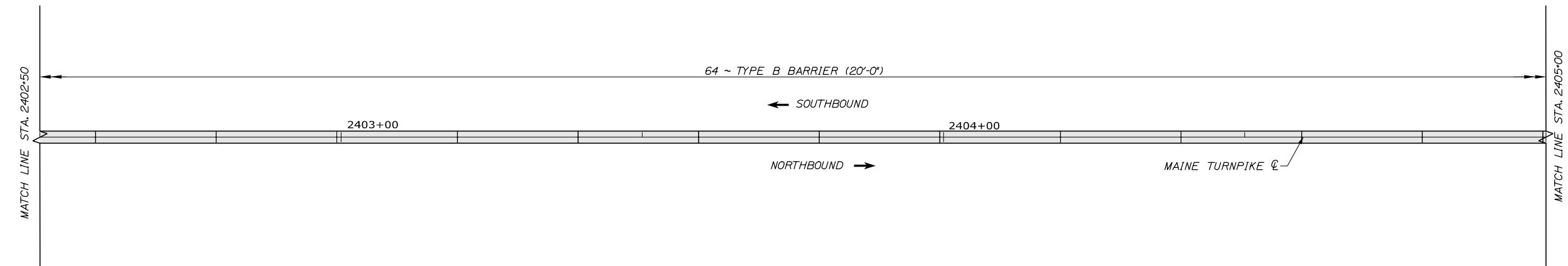
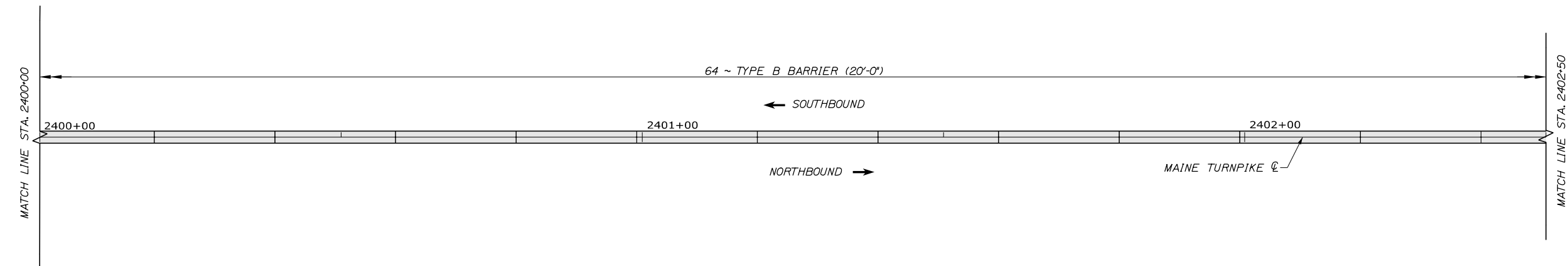
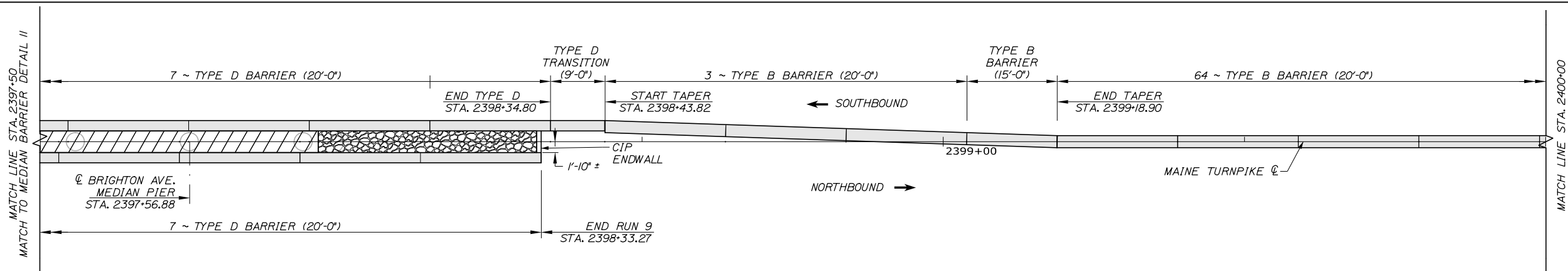
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (11 OF 22)

SHEET NUMBER: BL-11
CONTRACT: 2021.08
342 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_12.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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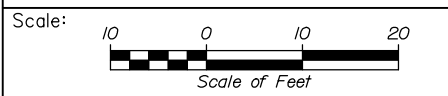
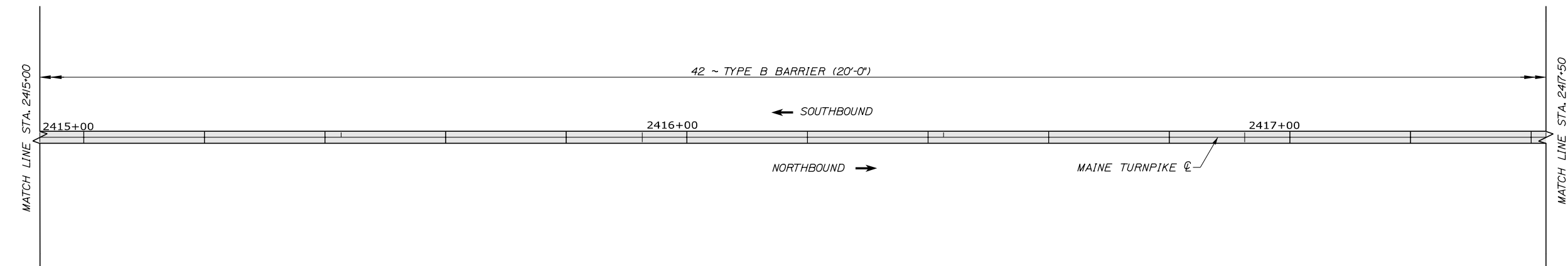
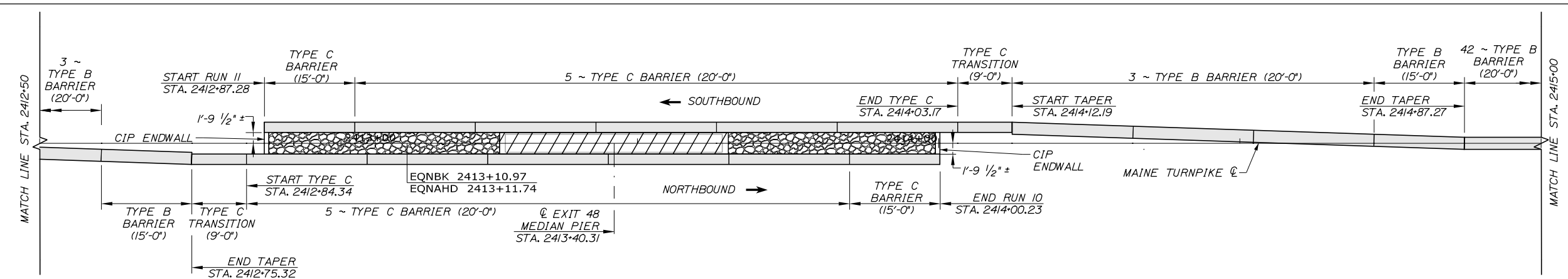
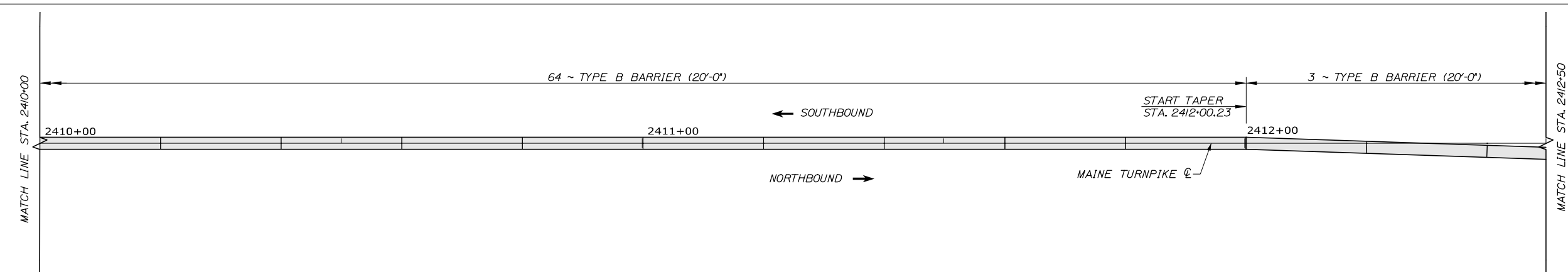
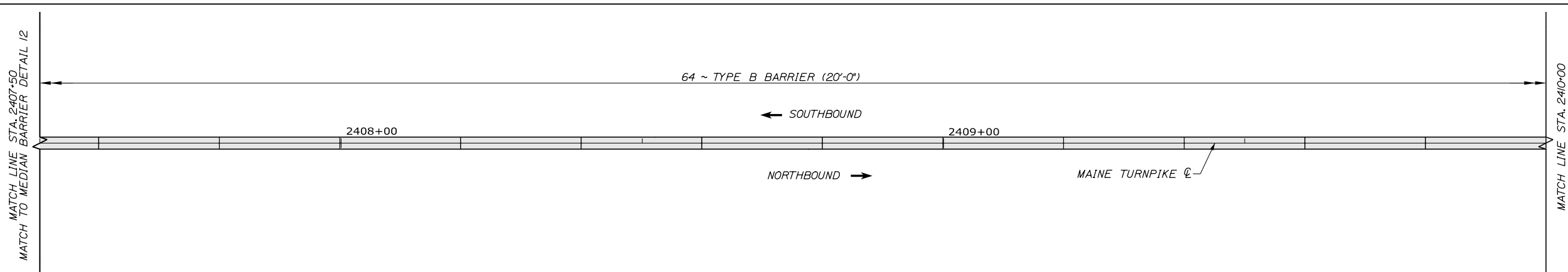
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (12 OF 22)

SHEET NUMBER: BL-12
CONTRACT: 2021.08
343 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_13.dgn



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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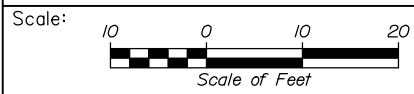
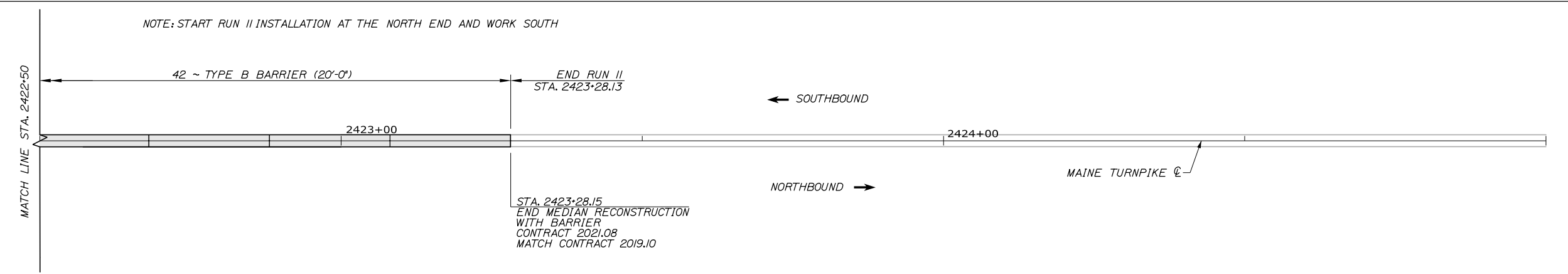
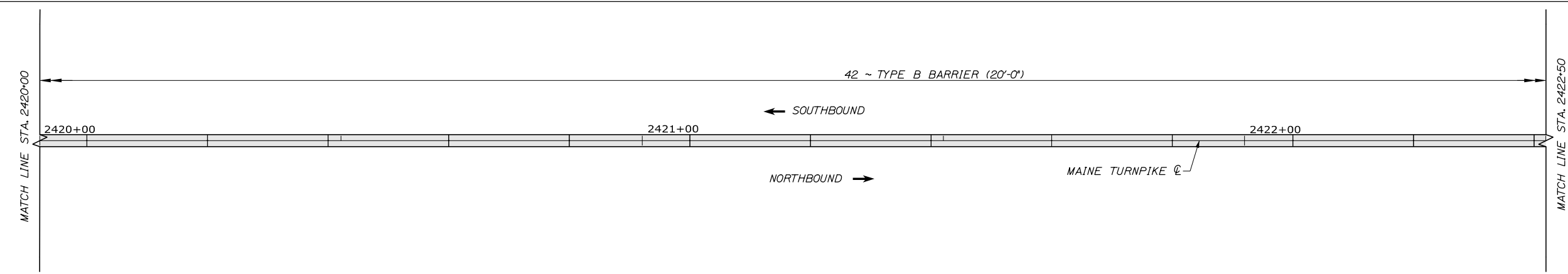
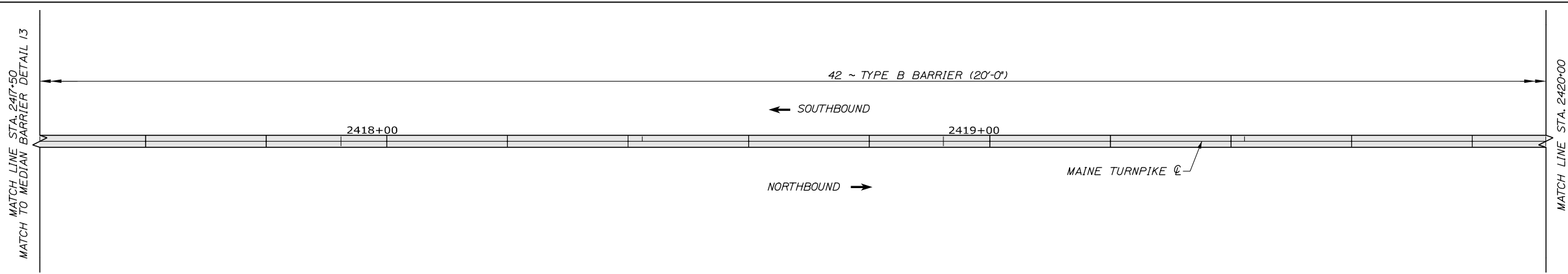
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 46.4 TO MM 49.3
 MEDIAN BARRIER LAYOUT (13 OF 22)

SHEET NUMBER: BL-13
 CONTRACT: 2021.08
 344 OF 376

Date: 9/8/2021

Filename: PAW2_Median_Barrier_14.dgn



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MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (14 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
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Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-14

345 OF 376

Date: 9/9/2021

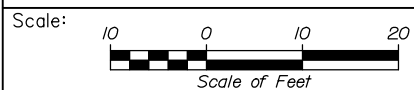
RUN 1					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2288+50.00	Start Run 1	-	-	0.00	72.02
2288+70.02	Median	Type B	20'-0"	0.00	72.34
2288+90.04	Median	Type B	20'-0"	0.00	72.67
2289+10.06	Median	Type B	20'-0"	0.00	73
2289+30.08	Median	Type B	20'-0"	0.00	73.33
2289+50.10	Median	Type B	20'-0"	0.00	73.65
2289+70.12	Median	Type B	20'-0"	0.00	73.96
2289+90.15	Median	Type B	20'-0"	0.00	74.28
2290+10.17	Median	Type B	20'-0"	0.00	74.59
2290+30.19	Median	Type B	20'-0"	0.00	74.89
2290+50.21	Median	Type B	20'-0"	0.00	75.17
2290+70.23	Median	Type B	20'-0"	0.00	75.44
2290+90.25	Median	Type B	20'-0"	0.00	75.69
2291+10.27	Median	Type B	20'-0"	0.00	75.93
2291+30.29	Median	Type B	20'-0"	0.00	76.16
2291+50.31	Median	Type B	20'-0"	0.00	76.39
2291+70.33	Median	Type B	20'-0"	0.00	76.62
2291+90.35	Median	Type B	20'-0"	0.00	76.83
2292+10.37	Median	Type B	20'-0"	0.00	77.04
2292+30.40	Median	Type B	20'-0"	0.00	77.24
2292+50.42	Median	Type B	20'-0"	0.00	77.43
2292+70.44	Median	Type B	20'-0"	0.00	77.63
2292+90.46	Median	Type B	20'-0"	0.00	77.81
2293+10.48	Median	Type B	20'-0"	0.00	77.99
2293+30.50	Median	Type B	20'-0"	0.00	78.18
2293+50.52	Median	Type B	20'-0"	0.00	78.41
2293+70.54	Median	Type B	20'-0"	0.00	78.6
2293+90.56	Median	Type B	20'-0"	0.00	78.78
2294+10.58	Median	Type B	20'-0"	0.00	78.97
2294+30.60	Median	Type B	20'-0"	0.00	79.15
2294+50.62	Median	Type B	20'-0"	0.00	79.37
2294+70.65	Median	Type B	20'-0"	0.00	79.58
2294+90.67	Median	Type B	20'-0"	0.00	79.78
2295+10.69	Median	Type B	20'-0"	0.00	79.98
2295+30.71	Median	Type B	20'-0"	0.00	80.19
2295+50.73	Median	Type B	20'-0"	0.00	80.4
2295+70.75	Median	Type B	20'-0"	0.00	80.57
2295+85.77	Median	Type B Odd	15'-0"	0.00	80.7
2295+95.79	Start Taper	Type B Odd	10'-0"	0.00	80.77
2296+15.81	Taper	Type B	20'-0"	0.66	80.9
2296+35.83	Taper	Type B	20'-0"	1.31	81.02
2296+55.85	Taper	Type B	20'-0"	1.97	81.13
2296+75.87	Taper	Type B	20'-0"	2.63	81.27
2296+85.90	End Taper	Type B Odd	10'-0"	2.96	81.35
2296+94.92	Transition	Type D Transition	9'-0"	2.25	82.93
STATION EQUATION EQNBK 2297+13.91; EQNAHD 2297+17.98					
2297+19.01	Pier Protection	Type D	20'-0"	2.25	83.1
2297+39.03	Pier Protection	Type D	20'-0"	2.25	83.27
2297+59.05	Pier Protection	Type D	20'-0"	2.25	83.45
2297+79.07	Pier Protection	Type D	20'-0"	2.25	83.65
2297+99.09	Pier Protection	Type D	20'-0"	2.25	83.88
2298+14.11	End Run 1	Type D Odd	15'-0"	2.25	84.05

RUN 2					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2296+96.98	Start Run 2	-	-	2.00	82.8
STATION EQUATION EQNBK 2297+13.91; EQNAHD 2297+17.98					
2297+21.07	Pier Protection	Type D	20'-0"	2.25	82.92
2297+41.09	Pier Protection	Type D	20'-0"	2.25	83.04
2297+61.11	Pier Protection	Type D	20'-0"	2.25	83.2
2297+81.13	Pier Protection	Type D	20'-0"	2.25	83.44
2298+01.15	Pier Protection	Type D	20'-0"	2.25	83.71
2298+16.17	Pier Protection	Type D Odd	15'-0"	2.25	83.93
2298+25.20	Transition	Type D Transition	9'-0"	2.96	82.76
2298+45.22	Taper	Type B	20'-0"	2.30	83
2298+65.24	Taper	Type B	20'-0"	1.64	83.27
2298+85.26	Taper	Type B	20'-0"	0.99	83.54
2299+05.28	Taper	Type B	20'-0"	0.33	83.79
2299+15.30	End Taper	Type B Odd	10'-0"	0.00	83.91
2299+35.32	Median	Type B	20'-0"	0.00	84.11
2299+55.34	Median	Type B	20'-0"	0.00	84.31
2299+75.36	Median	Type B	20'-0"	0.00	84.51
2299+95.38	Median	Type B	20'-0"	0.00	84.71
2300+15.40	Median	Type B	20'-0"	0.00	84.91
2300+35.43	Median	Type B	20'-0"	0.00	85.14
2300+55.45	Median	Type B	20'-0"	0.00	85.37
2300+75.47	Median	Type B	20'-0"	0.00	85.58
2300+95.49	Median	Type B	20'-0"	0.00	85.8
2301+15.51	Median	Type B	20'-0"	0.00	86.01
2301+30.53	Median	Type B Odd	15'-0"	0.00	86.18
2301+50.55	Start Taper	Type B	20'-0"	0.66	86.37
2301+70.57	Taper	Type B	20'-0"	1.31	86.56
2301+90.59	Taper	Type B	20'-0"	1.97	86.74
2302+10.61	Taper	Type B	20'-0"	2.63	86.9
2302+20.63	Taper	Type B, Odd	10'-0"	2.96	87
2302+29.65	Transition	Type D Transition	9'-0"	2.96	88.6
2302+49.68	Pier Protection	Type D	20'-0"	2.25	88.83
STATION EQUATION EQNBK 2302+46.21; EQNAHD 2302+47.46					
2302+70.95	Pier Protection	Type D	20'-0"	2.25	89.02
2302+90.97	Pier Protection	Type D	20'-0"	2.25	89.18
2303+10.99	Pier Protection	Type D	20'-0"	2.25	89.36
2303+31.01	Pier Protection	Type D	20'-0"	2.25	89.52
2303+51.03	End Run 2	Type D	20'-0"	2.25	89.67

MEDIAN BARRIER LAYOUT TABLE NOTES:

- OFFSETS AND ELEVATIONS SHOWN IN THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.
- MEDIAN BARRIER SHALL BE 36" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
- TYPE C AND TYPE D BARRIER SHALL BE 54" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
- OFFSETS FROM BASELINE TO BACK FACE OF TYPE C OR D BARRIER SHOWN IN THE LAYOUT PLANS SHALL BE MET.
- OFFSETS REPORTED IN THE TABLES ARE FROM TURNPIKE BASELINE TO BACK FACE OF TYPE C OR D BARRIER AND FROM TURNPIKE BASELINE TO CENTERLINE OF TYPE B BARRIER.

Filename: PAW2_Median_Barrier_15.dgn



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (15 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
By	Date	Checked	By	Date	
ALZ	09\21	PJS		09\21	
Drawn	WAD	In Charge of	TRC	09\21	

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-15

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Date: 9/9/2021

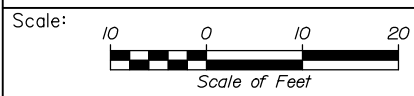
RUN 3					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2302+28.39	Start Run 3	-	-	2.00	88.46
STATION EQUATION EQNBK 2302+46.21; EQNAHD 2302+47.46					
2302+49.66	Pier Protection	Type D	20'-0"	2.25	88.59
2302+69.68	Pier Protection	Type D	20'-0"	2.25	88.71
2302+89.70	Pier Protection	Type D	20'-0"	2.25	88.81
2303+09.72	Pier Protection	Type D	20'-0"	2.25	88.94
2303+29.74	Pier Protection	Type D	20'-0"	2.25	89.1
2303+49.76	Pier Protection	Type D	20'-0"	2.25	89.26
2303+58.78	Transition	Type D Transition	9'-0"	2.96	88.3
2303+78.81	Taper	Type B	20'-0"	2.34	88.42
2303+98.83	Taper	Type B	20'-0"	1.71	88.55
2304+18.85	Taper	Type B	20'-0"	1.09	88.65
2304+38.87	Taper	Type B	20'-0"	0.47	88.76
2304+53.89	Taper	Type B Odd	15'-0"	0.00	88.81
2304+73.91	Median	Type B	20'-0"	0.00	88.85
2304+93.93	Median	Type B	20'-0"	0.00	88.87
2305+13.95	Median	Type B	20'-0"	0.00	88.86
2305+33.97	Median	Type B	20'-0"	0.00	88.83
2305+53.99	Median	Type B	20'-0"	0.00	88.79
2305+74.01	Median	Type B	20'-0"	0.00	88.74
2305+94.03	Median	Type B	20'-0"	0.00	88.65
2306+14.06	Median	Type B	20'-0"	0.00	88.52
2306+34.08	Median	Type B	20'-0"	0.00	88.4
2306+54.10	Median	Type B	20'-0"	0.00	88.27
2306+74.12	Median	Type B	20'-0"	0.00	88.11
2306+94.14	Median	Type B	20'-0"	0.00	87.92
2307+14.16	Median	Type B	20'-0"	0.00	87.71
2307+34.18	Median	Type B	20'-0"	0.00	87.47
2307+54.20	Median	Type B	20'-0"	0.00	87.21
2307+74.22	Median	Type B	20'-0"	0.00	86.94
2307+94.24	Median	Type B	20'-0"	0.00	86.66
2308+14.26	Median	Type B	20'-0"	0.00	86.36
2308+34.28	Median	Type B	20'-0"	0.00	86.06
2308+54.31	Median	Type B	20'-0"	0.00	85.72
2308+74.33	Median	Type B	20'-0"	0.00	85.34
2308+94.35	Median	Type B	20'-0"	0.00	84.96
2309+14.37	Median	Type B	20'-0"	0.00	84.52
2309+34.39	Median	Type B	20'-0"	0.00	84.08

2309+54.41	Median	Type B	20'-0"	0.00	83.58
2309+74.43	Median	Type B	20'-0"	0.00	83.07
2309+94.45	Median	Type B	20'-0"	0.00	82.58
2310+14.47	Median	Type B	20'-0"	0.00	82.09
2310+34.49	Median	Type B	20'-0"	0.00	81.59
2310+54.51	Median	Type B	20'-0"	0.00	81.07
2310+74.53	Median	Type B	20'-0"	0.00	80.54
2310+94.56	Median	Type B	20'-0"	0.00	80
2311+14.58	Median	Type B	20'-0"	0.00	79.41
2311+34.60	Median	Type B	20'-0"	0.00	78.82
2311+54.62	Median	Type B	20'-0"	0.00	78.21
2311+74.64	Median	Type B	20'-0"	0.00	77.61
2311+94.66	Median	Type B	20'-0"	0.00	77.05
2312+14.68	Median	Type B	20'-0"	0.00	76.45
2312+34.70	Median	Type B	20'-0"	0.00	75.88
2312+54.72	Median	Type B	20'-0"	0.00	75.24
2312+74.74	Median	Type B	20'-0"	0.00	74.64
2312+94.76	Median	Type B	20'-0"	0.00	74.04
2313+14.78	Median	Type B	20'-0"	0.00	73.44
2313+34.81	Median	Type B	20'-0"	0.00	72.83
2313+54.83	Median	Type B	20'-0"	0.00	72.19
2313+74.85	Median	Type B	20'-0"	0.00	71.55
2313+94.87	Median	Type B	20'-0"	0.00	70.92
2314+14.89	Median	Type B	20'-0"	0.00	70.31
2314+24.91	Taper	Type B Odd	10'-0"	0.33	69.98
2314+44.93	Taper	Type B	20'-0"	0.99	69.39
2314+64.95	Taper	Type B	20'-0"	1.65	68.81
2314+84.97	Taper	Type B	20'-0"	2.32	68.21
2315+04.99	Taper	Type B	20'-0"	2.98	67.61
2315+25.01	Taper	Type B	20'-0"	3.64	67.01
2315+45.04	Taper	Type B	20'-0"	4.30	66.4
2315+65.06	Taper	Type B	20'-0"	4.96	65.8
2315+85.08	Taper	Type B	20'-0"	5.62	65.24
2316+05.10	Taper	Type B	20'-0"	6.29	64.68
STATION EQUATION EQNBK 2316+25.00; EQNAHD 2316+26.84					
2316+26.96	Taper	Type B	20'-0"	7.01	64.12
2316+46.98	End Taper	Type B	20'-0"	7.67	63.55
2316+57.00	Transition	End Post Transition	10'-0"	8.00	63.28

MEDIAN BARRIER LAYOUT TABLE NOTES:

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Filename: PAW2_Median_Barrier_16.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (16 OF 22)

SHEET NUMBER: BL-16
CONTRACT: 2021.08
347 OF 376

Date: 9/9/2021

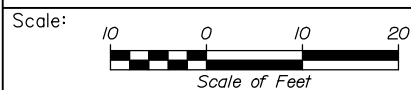
RUN 4					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2319+91.00	Start Run 4	-	-	9.00	55.56
2320+01.02	Transition	End Post Transition	10'-0"	8.00	55.41
2320+21.04	Taper	Type B	20'-0"	7.30	55.12
2320+41.06	Taper	Type B	20'-0"	6.61	54.85
2320+61.08	Taper	Type B	20'-0"	5.91	54.61
2320+81.10	Taper	Type B	20'-0"	5.22	54.41
2321+01.13	Taper	Type B	20'-0"	4.52	54.23
2321+21.15	Taper	Type B	20'-0"	3.83	54.09
2321+41.17	Taper	Type B	20'-0"	3.13	54.01
2321+61.19	Taper	Type B	20'-0"	2.44	53.98
2321+81.21	Taper	Type B	20'-0"	1.74	53.98
2322+01.23	Taper	Type B	20'-0"	1.04	54.01
2322+21.25	Taper	Type B	20'-0"	0.35	54.07
2322+31.27	Taper	Type B Odd	10'-0"	0.00	54.11
2322+51.29	Median	Type B	20'-0"	0.00	54.19
2322+71.31	Median	Type B	20'-0"	0.00	54.3
2322+91.33	Median	Type B	20'-0"	0.00	54.44
2323+11.35	Median	Type B	20'-0"	0.00	54.61
2323+31.38	Median	Type B	20'-0"	0.00	54.79
2323+51.40	Median	Type B	20'-0"	0.00	55.02
2323+71.42	Median	Type B	20'-0"	0.00	55.23
2323+91.44	Median	Type B	20'-0"	0.00	55.49
2324+11.46	Median	Type B	20'-0"	0.00	55.77
2324+31.48	Median	Type B	20'-0"	0.00	56.1
2324+51.50	Median	Type B	20'-0"	0.00	56.42
2324+71.52	Median	Type B	20'-0"	0.00	56.74
2324+91.54	Median	Type B	20'-0"	0.00	57.07
2325+11.56	Median	Type B	20'-0"	0.00	57.4
2325+31.58	Median	Type B	20'-0"	0.00	57.75
2325+51.60	Median	Type B	20'-0"	0.00	58.09
2325+71.63	Median	Type B	20'-0"	0.00	58.44
2325+91.65	Median	Type B	20'-0"	0.00	58.78
2326+11.67	Median	Type B	20'-0"	0.00	59.11
2326+31.69	Median	Type B	20'-0"	0.00	59.44
2326+51.71	Median	Type B	20'-0"	0.00	59.78
2326+71.73	Median	Type B	20'-0"	0.00	60.12
2326+91.75	Median	Type B	20'-0"	0.00	60.47
2327+11.77	Median	Type B	20'-0"	0.00	60.79
2327+31.79	Median	Type B	20'-0"	0.00	61.09
2327+51.81	Median	Type B	20'-0"	0.00	61.38
2327+71.83	Median	Type B	20'-0"	0.00	61.67
2327+91.85	Median	Type B	20'-0"	0.00	61.96
2328+11.88	Median	Type B	20'-0"	0.00	62.24
2328+31.90	Median	Type B	20'-0"	0.00	62.52
2328+51.92	Median	Type B	20'-0"	0.00	62.79
2328+71.94	Median	Type B	20'-0"	0.00	63.04
2328+91.96	Median	Type B	20'-0"	0.00	63.29
2329+11.98	Median	Type B	20'-0"	0.00	63.53
2329+32.00	Median	Type B	20'-0"	0.00	63.77
2329+52.02	Median	Type B	20'-0"	0.00	64
2329+72.04	Median	Type B	20'-0"	0.00	64.18

2329+92.06	Median	Type B	20'-0"	0.00	64.38
2330+12.08	Median	Type B	20'-0"	0.00	64.56
2330+32.10	Median	Type B	20'-0"	0.00	64.73
2330+52.13	Median	Type B	20'-0"	0.00	64.93
2330+72.15	Median	Type B	20'-0"	0.00	65.1
2330+92.17	Median	Type B	20'-0"	0.00	65.27
2331+12.19	Median	Type B	20'-0"	0.00	65.41
2331+32.21	Median	Type B	20'-0"	0.00	65.53
2331+52.23	Median	Type B	20'-0"	0.00	65.64
2331+72.25	Median	Type B	20'-0"	0.00	65.72
2331+92.27	Median	Type B	20'-0"	0.00	65.83
2332+12.29	Median	Type B	20'-0"	0.00	65.95
2332+32.31	Median	Type B	20'-0"	0.00	66.07
2332+52.33	Median	Type B	20'-0"	0.00	66.19
2332+72.35	Median	Type B	20'-0"	0.00	66.3
2332+92.38	Median	Type B	20'-0"	0.00	66.4
2333+12.40	Median	Type B	20'-0"	0.00	66.5
2333+32.42	Median	Type B	20'-0"	0.00	66.59
2333+52.44	Median	Type B	20'-0"	0.00	66.69
2333+72.46	Median	Type B	20'-0"	0.00	66.78
2333+92.48	Median	Type B	20'-0"	0.00	66.87
2334+12.50	Median	Type B	20'-0"	0.00	66.96
2334+32.52	Median	Type B	20'-0"	0.00	67.07
2334+52.54	Median	Type B	20'-0"	0.00	67.17
2334+72.56	Median	Type B	20'-0"	0.00	67.26
2334+92.58	Median	Type B	20'-0"	0.00	67.36
2335+12.60	Median	Type B	20'-0"	0.00	67.45
2335+22.63	Median	Type B Odd	10'-0"	0.00	67.49
2335+42.65	Taper	Type B	20'-0"	0.67	67.54
2335+62.67	Taper	Type B	20'-0"	1.33	67.6
2335+82.69	Taper	Type B	20'-0"	2.00	67.66
2335+97.71	Taper	Type B Odd	15'-0"	2.50	67.74
2336+06.73	Transition	Type D Transition	9'-0"	2.50	69.19
2336+26.75	Pier Protection	Type D	20'-0"	1.79	69.3
2336+46.77	Pier Protection	Type D	20'-0"	1.79	69.4
2336+66.79	Pier Protection	Type D	20'-0"	1.79	69.52
2336+86.81	Pier Protection	Type D	20'-0"	1.79	69.64
2336+96.83	Pier Protection	Type D Odd	10'-0"	1.79	69.7
2337+16.85	Pier Protection	Type C	20'-0"	1.79	69.8
2337+36.88	Pier Protection	Type C	20'-0"	1.79	69.89
2337+56.90	Pier Protection	Type C	20'-0"	1.79	69.98
STATION EQUATION EQNBK 2337+67.25; EQNAHD 2337+70.89					
2337+80.56	Pier Protection	Type C	20'-0"	1.79	70.04
2338+00.58	Pier Protection	Type D	20'-0"	1.79	70.11
2338+20.60	Pier Protection	Type D	20'-0"	1.79	70.17
2338+40.62	Pier Protection	Type D	20'-0"	1.79	70.26
2338+60.64	Pier Protection	Type D	20'-0"	1.79	70.36
2338+80.66	Pier Protection	Type D	20'-0"	1.79	70.47
2339+00.68	Pier Protection	Type D	20'-0"	1.79	70.59
2339+15.70	End Run 4	Type D Odd	15'-0"	1.79	70.67

MEDIAN BARRIER LAYOUT TABLE NOTES:

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- MEDIAN BARRIER SHALL BE 36" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
- TYPE C AND TYPE D BARRIER SHALL BE 54" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
- OFFSETS FROM BASELINE TO BACK FACE OF TYPE C OR D BARRIER SHOWN IN THE LAYOUT PLANS SHALL BE MET.
- OFFSETS REPORTED IN THE TABLES ARE FROM TURNPIKE BASELINE TO BACK FACE OF TYPE C OR D BARRIER AND FROM TURNPIKE BASELINE TO CENTERLINE OF TYPE B BARRIER.

Filename: PAW2_Median_Barrier_17.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (17 OF 22)

CONTRACT: 2021.08

SHEET NUMBER: BL-17

348 OF 376

Date: 9/9/2021

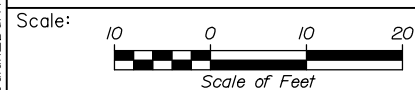
RUN 5					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2336+08.55	Start Run 5	-	-	2.79	69.21
2336+28.57	Pier Protection	Type D	20'-0"	2.79	69.31
2336+48.59	Pier Protection	Type D	20'-0"	2.79	69.42
2336+68.61	Pier Protection	Type D	20'-0"	2.79	69.52
2336+88.63	Pier Protection	Type D	20'-0"	2.79	69.62
2337+08.65	Pier Protection	Type D	20'-0"	2.79	69.71
2337+28.67	Pier Protection	Type C	20'-0"	2.79	69.8
2337+48.70	Pier Protection	Type C	20'-0"	2.79	69.9
STATION EQUATION EQNBK 2337+67.25; EQNAHD 2337+70.89					
2337+72.36	Pier Protection	Type C	20'-0"	2.79	69.99
2337+92.38	Pier Protection	Type C	20'-0"	2.79	70.09
2338+12.40	Pier Protection	Type D	20'-0"	2.79	70.18
2338+32.42	Pier Protection	Type D	20'-0"	2.79	70.24
2338+52.44	Pier Protection	Type D	20'-0"	2.79	70.29
2338+72.46	Pier Protection	Type D	20'-0"	2.79	70.39
2338+92.48	Pier Protection	Type D	20'-0"	2.79	70.5
2339+12.50	Pier Protection	Type D	20'-0"	2.79	70.6
2339+21.52	Transition	Type D Transition	9'-0"	3.50	69.27
2339+41.54	Taper	Type B	20'-0"	2.86	69.35
2339+61.56	Taper	Type B	20'-0"	2.23	69.48
2339+81.59	Taper	Type B	20'-0"	1.59	69.61
2340+01.61	Taper	Type B	20'-0"	0.95	69.76
2340+21.63	Taper	Type B	20'-0"	0.32	69.9
2340+31.65	End Taper	Type B Odd	10'-0"	0.00	69.96
2340+51.67	Median	Type B	20'-0"	0.00	70.03
2340+71.69	Median	Type B	20'-0"	0.00	70.08
2340+91.71	Median	Type B	20'-0"	0.00	70.16
2341+11.73	Median	Type B	20'-0"	0.00	70.25
2341+31.75	Median	Type B	20'-0"	0.00	70.34
2341+51.77	Median	Type B	20'-0"	0.00	70.44
2341+71.79	Median	Type B	20'-0"	0.00	70.54
2341+91.81	Median	Type B	20'-0"	0.00	70.64
2342+11.84	Median	Type B	20'-0"	0.00	70.74
2342+31.86	Median	Type B	20'-0"	0.00	70.86
2342+51.88	Median	Type B	20'-0"	0.00	70.97
2342+71.90	Median	Type B	20'-0"	0.00	71.08
2342+91.92	Median	Type B	20'-0"	0.00	71.18
2343+11.94	Median	Type B	20'-0"	0.00	71.3
2343+31.96	Median	Type B	20'-0"	0.00	71.42
2343+51.98	Median	Type B	20'-0"	0.00	71.53

2343+72.00	Median	Type B	20'-0"	0.00	71.63
2343+92.02	Median	Type B	20'-0"	0.00	71.71
2344+12.04	Median	Type B	20'-0"	0.00	71.78
2344+32.06	Median	Type B	20'-0"	0.00	71.87
2344+52.09	Median	Type B	20'-0"	0.00	71.95
2344+72.11	Median	Type B	20'-0"	0.00	72
2344+92.13	Median	Type B	20'-0"	0.00	72.04
2345+12.15	Median	Type B	20'-0"	0.00	72.06
2345+32.17	Median	Type B	20'-0"	0.00	72.06
2345+52.19	Median	Type B	20'-0"	0.00	72.08
2345+72.21	Median	Type B	20'-0"	0.00	72.09
2345+92.23	Median	Type B	20'-0"	0.00	72.09
2346+12.25	Median	Type B	20'-0"	0.00	72.09
2346+32.27	Median	Type B	20'-0"	0.00	72.08
2346+52.29	Median	Type B	20'-0"	0.00	72.06
2346+72.31	Median	Type B	20'-0"	0.00	72.06
2346+92.34	Median	Type B	20'-0"	0.00	72.04
2347+12.36	Median	Type B	20'-0"	0.00	72
2347+32.38	Median	Type B	20'-0"	0.00	71.95
2347+52.40	Median	Type B	20'-0"	0.00	71.88
2347+72.42	Median	Type B	20'-0"	0.00	71.8
2347+92.44	Median	Type B	20'-0"	0.00	71.72
2348+12.46	Median	Type B	20'-0"	0.00	71.63
2348+32.48	Median	Type B	20'-0"	0.00	71.53
2348+52.50	Start Taper	Type B	20'-0"	0.63	71.39
2348+72.52	Taper	Type B	20'-0"	1.27	71.27
2348+92.54	Taper	Type B	20'-0"	1.90	71.13
2349+12.56	Taper	Type B	20'-0"	2.54	70.97
2349+32.59	Taper	Type B	20'-0"	3.17	70.83
2349+52.61	Taper	Type B	20'-0"	3.81	70.71
2349+72.63	Taper	Type B	20'-0"	4.44	70.6
2349+92.65	Taper	Type B	20'-0"	5.07	70.48
2350+12.67	End Taper	Type B	20'-0"	5.71	70.43
2350+21.69	Transition	Type D Transition	9'-0"	5.00	71.78
2350+41.71	Pier Protection	Type D	20'-0"	5.00	71.63
STATION EQUATION EQNBK 2350+52.61; EQNAHD 2350+44.69					
2350+53.81	Pier Protection	Type D	20'-0"	5.00	71.48
2350+73.83	Pier Protection	Type D	20'-0"	5.00	71.33
2350+93.85	Pier Protection	Type D	20'-0"	5.00	71.19
2351+13.87	Pier Protection	Type D	20'-0"	5.00	71.05
2351+28.90	Pier Protection	Type D Odd	15'-0"	5.00	70.95
2351+38.92	End Run 5	Type D Odd	10'-0"	5.00	70.88

MEDIAN BARRIER LAYOUT TABLE NOTES:

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Filename: PAW2_Median_Barrier_18.dgn



Designed by:



HNTB CORPORATION
82 Running Hill Road, Suite 201
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (18 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-18

349 OF 376

Date: 9/9/2021

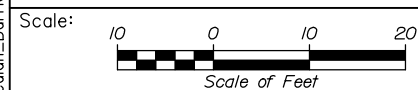
Filename: PAW2_Median_Barrier_19.dgn

RUN 6					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2350+21.80	Start Run 6	-	-	5.00	71.77
2350+41.82	Pier Protection	Type D	20'-0"	5.00	71.6
STATION EQUATION EQNBK 2350+52.61; EQNAHD 2350+44.69					
2350+53.92	Pier Protection	Type D	20'-0"	5.00	71.43
2350+73.94	Pier Protection	Type D	20'-0"	5.00	71.29
2350+93.96	Pier Protection	Type D	20'-0"	5.00	71.16
2351+13.98	Pier Protection	Type D	20'-0"	5.00	71.05
2351+29.00	Pier Protection	Type D Odd	15'-0"	5.00	70.97
2351+39.03	Pier Protection	Type D Odd	10'-0"	5.00	70.92
2351+48.05	Transition	Type D Transition	9'-0"	5.71	69.45
2351+68.07	Taper	Type B	20'-0"	5.07	69.2
2351+88.09	Taper	Type B	20'-0"	4.44	69.02
2352+08.11	Taper	Type B	20'-0"	3.81	68.85
2352+28.13	Taper	Type B	20'-0"	3.17	68.75
2352+48.15	Taper	Type B	20'-0"	2.54	68.65
2352+68.17	Taper	Type B	20'-0"	1.90	68.54
2352+88.19	Taper	Type B	20'-0"	1.27	68.41
2353+08.21	Taper	Type B	20'-0"	0.63	68.29
2353+28.23	Taper	Type B	20'-0"	0.00	68.17
2353+48.26	Median	Type B	20'-0"	0.00	68.04
2353+68.28	Median	Type B	20'-0"	0.00	67.87
2353+88.30	Median	Type B	20'-0"	0.00	67.72
2354+08.32	Median	Type B	20'-0"	0.00	67.59
2354+28.34	Median	Type B	20'-0"	0.00	67.45
2354+48.36	Median	Type B	20'-0"	0.00	67.33
2354+68.38	Median	Type B	20'-0"	0.00	67.22
2354+88.40	Median	Type B	20'-0"	0.00	67.1
2355+08.42	Median	Type B	20'-0"	0.00	66.97
2355+28.44	Median	Type B	20'-0"	0.00	66.82
2355+48.46	Median	Type B	20'-0"	0.00	66.68
2355+68.48	Median	Type B	20'-0"	0.00	66.54
2355+88.51	Median	Type B	20'-0"	0.00	66.39
2356+08.53	Median	Type B	20'-0"	0.00	66.27
2356+28.55	Median	Type B	20'-0"	0.00	66.15
2356+48.57	Median	Type B	20'-0"	0.00	66.03
2356+68.59	Median	Type B	20'-0"	0.00	65.94
2356+88.61	Median	Type B	20'-0"	0.00	65.86

2357+08.63	Median	Type B	20'-0"	0.00	65.76
2357+28.65	Median	Type B	20'-0"	0.00	65.66
2357+48.67	Median	Type B	20'-0"	0.00	65.58
2357+68.69	Median	Type B	20'-0"	0.00	65.53
2357+88.71	Median	Type B	20'-0"	0.00	65.45
2358+08.73	Median	Type B	20'-0"	0.00	65.39
2358+28.76	Median	Type B	20'-0"	0.00	65.33
2358+48.78	Median	Type B	20'-0"	0.00	65.3
2358+68.80	Median	Type B	20'-0"	0.00	65.29
2358+88.82	Median	Type B	20'-0"	0.00	65.26
2359+08.84	Median	Type B	20'-0"	0.00	65.24
2359+28.86	Median	Type B	20'-0"	0.00	65.23
2359+48.88	Median	Type B	20'-0"	0.00	65.25
2359+68.90	Median	Type B	20'-0"	0.00	65.29
2359+88.92	Median	Type B	20'-0"	0.00	65.32
2360+08.94	Median	Type B	20'-0"	0.00	65.35
2360+28.96	Median	Type B	20'-0"	0.00	65.41
2360+48.98	Median	Type B	20'-0"	0.00	65.5
2360+59.01	Median	Type B Odd	10'-0"	0.00	65.55
2360+79.03	Start Taper	Type B	20'-0"	0.67	65.61
2360+99.05	Taper	Type B	20'-0"	1.34	65.67
2361+19.07	Taper	Type B	20'-0"	2.01	65.76
2361+39.09	Taper	Type B	20'-0"	2.68	65.83
2361+59.11	Taper	Type B	20'-0"	3.35	65.92
2361+79.13	Taper	Type B	20'-0"	4.02	66.04
2361+99.15	Taper	Type B	20'-0"	4.68	66.2
2362+19.17	Taper	Type B	20'-0"	5.35	66.37
2362+39.19	Taper	Type B	20'-0"	6.02	66.63
STATION EQUATION EQNBK 2362+54.83; EQNAHD 2362+55.31					
2362+59.69	End Taper	Type B	20'-0"	6.71	66.91
2362+68.71	Transition	Type D Transition	9'-0"	6.00	68.22
2362+88.74	Pier Protection	Type D	20'-0"	6.00	68.37
2363+08.76	Pier Protection	Type D	20'-0"	6.00	68.53
2363+28.78	Pier Protection	Type D	20'-0"	6.00	68.71
2363+48.80	Pier Protection	Type D	20'-0"	6.00	68.89
2363+68.82	Pier Protection	Type D	20'-0"	6.00	69.05
2363+88.84	End Run 6	Type D	20'-0"	6.00	69.21

MEDIAN BARRIER LAYOUT TABLE NOTES:

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- TYPE C AND TYPE D BARRIER SHALL BE 54" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
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Designed by:



HNTB CORPORATION
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South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (19 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-19

350 OF 376

Date: 9/9/2021

RUN 7					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2362+73.82	Start Run 7	-	-	5.71	68.4
2362+93.84	Pier Protection	Type D	20'-0"	6.00	68.54
2363+13.86	Pier Protection	Type D	20'-0"	6.00	68.7
2363+33.88	Pier Protection	Type D	20'-0"	6.00	68.83
2363+53.90	Pier Protection	Type D	20'-0"	6.00	68.95
2363+73.92	Pier Protection	Type D	20'-0"	6.00	69.07
2363+93.94	Pier Protection	Type D	20'-0"	6.00	69.2
2364+02.96	Transition	Type D Transition	9'-0"	6.71	67.96
2364+22.99	Taper	Type B	20'-0"	6.04	68.05
2364+43.01	Taper	Type B	20'-0"	5.37	68.19
2364+63.03	Taper	Type B	20'-0"	4.70	68.41
2364+83.05	Taper	Type B	20'-0"	4.03	68.65
2365+03.07	Taper	Type B	20'-0"	3.35	68.88
2365+23.09	Taper	Type B	20'-0"	2.68	69.16
2365+43.11	Taper	Type B	20'-0"	2.01	69.44
2365+63.13	Taper	Type B	20'-0"	1.34	69.75
2365+83.15	Taper	Type B	20'-0"	0.67	70.05
2366+03.17	Taper	Type B	20'-0"	0.00	70.34
2366+13.19	Median	Type B Odd	10'-0"	0.00	70.47
2366+28.21	Median	Type B Odd	15'-0"	0.00	70.66
2366+48.24	Median	Type B	20'-0"	0.00	70.95
2366+68.26	Median	Type B	20'-0"	0.00	71.25
2366+88.28	Median	Type B	20'-0"	0.00	71.57
2367+08.30	Median	Type B	20'-0"	0.00	71.92
2367+28.32	Median	Type B	20'-0"	0.00	72.31
2367+48.34	Median	Type B	20'-0"	0.00	72.73
2367+68.36	Median	Type B	20'-0"	0.00	73.16
2367+88.38	Median	Type B	20'-0"	0.00	73.61
2368+08.40	Median	Type B	20'-0"	0.00	74.07
2368+28.42	Median	Type B	20'-0"	0.00	74.56
2368+48.44	Median	Type B	20'-0"	0.00	75.06
2368+68.46	Median	Type B	20'-0"	0.00	75.56
2368+88.49	Median	Type B	20'-0"	0.00	76.09
2369+08.51	Median	Type B	20'-0"	0.00	76.62
2369+28.53	Median	Type B	20'-0"	0.00	77.13
2369+48.55	Median	Type B	20'-0"	0.00	77.62
2369+68.57	Median	Type B	20'-0"	0.00	78.09

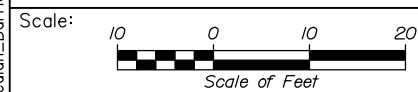
2369+88.59	Median	Type B	20'-0"	0.00	78.55
2370+08.61	Median	Type B	20'-0"	0.00	78.99
2370+28.63	Median	Type B	20'-0"	0.00	79.45
2370+48.65	Median	Type B	20'-0"	0.00	79.9
2370+68.67	Median	Type B	20'-0"	0.00	80.36
2370+88.69	Median	Type B	20'-0"	0.00	80.8
2371+08.71	Median	Type B	20'-0"	0.00	81.23
2371+28.74	Median	Type B	20'-0"	0.00	81.7
2371+48.76	Median	Type B	20'-0"	0.00	82.21
2371+68.78	Median	Type B	20'-0"	0.00	82.75
2371+88.80	Median	Type B	20'-0"	0.00	83.31
2372+08.82	Median	Type B	20'-0"	0.00	83.89
2372+28.84	Median	Type B	20'-0"	0.00	84.49
2372+48.86	Median	Type B	20'-0"	0.00	85.1
2372+68.88	Median	Type B	20'-0"	0.00	85.74
2372+88.90	Median	Type B	20'-0"	0.00	86.39
2373+08.92	Median	Type B	20'-0"	0.00	87.08
2373+28.94	Median	Type B	20'-0"	0.00	87.78
2373+48.96	Median	Type B	20'-0"	0.00	88.5
2373+68.99	Median	Type B	20'-0"	0.00	89.21
2373+89.01	Median	Type B	20'-0"	0.00	89.89
2374+09.03	Median	Type B	20'-0"	0.00	90.56
2374+29.05	Median	Type B	20'-0"	0.00	91.23
2374+49.07	Taper	Type B	20'-0"	0.00	91.9
2374+59.09	Taper	Type B Odd	10'-0"	0.34	92.22
2374+79.11	Taper	Type B	20'-0"	1.02	92.86
2374+99.13	Taper	Type B	20'-0"	1.69	93.5
2375+19.15	Taper	Type B	20'-0"	2.37	94.13
2375+39.17	Taper	Type B	20'-0"	3.04	94.76
2375+59.19	Taper	Type B	20'-0"	3.72	95.4
2375+79.22	Taper	Type B	20'-0"	4.40	96.07
2375+99.24	Taper	Type B	20'-0"	5.07	96.73
2376+25.75	Taper	Type B	20'-0"	5.97	97.39
STATION EQUATION EQNBK 2376+25.00; EQNAHD 2376+31.49					
2376+45.77	Taper	Type B	20'-0"	6.65	98.03
2376+65.79	Taper	Type B	20'-0"	7.32	98.68
2376+85.81	End Taper	Type B	20'-0"	8.00	99.31
2376+95.83	Transition	End Post Transition	10'-0"	9.00	99.63

RUN 8					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2379+75.54	Start Run 8	-	-	8.00	107.6
2379+85.56	Transition	End Post Transition	10'-0"	8.00	107.8
2380+05.58	Taper	Type B	20'-0"	7.30	108.2
2380+25.60	Taper	Type B	20'-0"	6.61	108.52
2380+45.62	Taper	Type B	20'-0"	5.91	108.85
2380+65.64	Taper	Type B	20'-0"	5.22	109.13
2380+85.67	Taper	Type B	20'-0"	4.52	109.45
2381+05.69	Taper	Type B	20'-0"	3.83	109.8
2381+25.71	Taper	Type B	20'-0"	3.13	110.1
2381+45.73	Taper	Type B	20'-0"	2.44	110.41
2381+65.75	Taper	Type B	20'-0"	1.74	110.79
2381+85.77	Taper	Type B	20'-0"	1.04	111.06
2382+05.79	Taper	Type B	20'-0"	0.35	111.3
2382+15.81	Taper	Type B Odd	10'-0"	0.00	111.4
2382+35.83	Median	Type B	20'-0"	0.00	111.53
2382+50.85	Median	Type B Odd	15'-0"	0.00	111.62
2382+64.94	Median	Type B Odd	14'-3/4"	0.00	111.68
2382+82.96	Transition	OHSS Transition	18'-0"	0.00	111.71
2383+16.98	OHSS	OHSS Barrier	34'-0"	0.00	111.82
2383+35.00	Transition	OHSS Transition	18'-0"	0.00	111.85

MEDIAN BARRIER LAYOUT TABLE NOTES:

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- TYPE C AND TYPE D BARRIER SHALL BE 54" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
- OFFSETS FROM BASELINE TO BACK FACE OF TYPE C OR D BARRIER SHOWN IN THE LAYOUT PLANS SHALL BE MET.
- OFFSETS REPORTED IN THE TABLES ARE FROM TURNPIKE BASELINE TO BACK FACE OF TYPE C OR D BARRIER AND FROM TURNPIKE BASELINE TO CENTERLINE OF TYPE B BARRIER.

Filename: PAW2_Median_Barrier_20.dgn



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (20 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-20

351 OF 376

Date: 9/9/2021

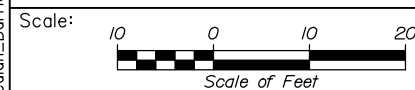
RUN 9					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2383+35.07	Start Run 9	-	-	0.00	111.85
2383+55.09	Median	Type B	20'-0"	0.00	111.84
2383+75.11	Median	Type B	20'-0"	0.00	111.81
2383+95.13	Median	Type B	20'-0"	0.00	111.75
2384+15.15	Median	Type B	20'-0"	0.00	111.67
2384+35.17	Median	Type B	20'-0"	0.00	111.57
2384+55.19	Median	Type B	20'-0"	0.00	111.47
2384+75.22	Median	Type B	20'-0"	0.00	111.33
2384+95.24	Median	Type B	20'-0"	0.00	111.17
2385+15.26	Median	Type B	20'-0"	0.00	110.98
2385+35.28	Median	Type B	20'-0"	0.00	110.77
2385+55.30	Median	Type B	20'-0"	0.00	110.54
2385+75.32	Median	Type B	20'-0"	0.00	110.32
2385+95.34	Median	Type B	20'-0"	0.00	110.07
2386+15.36	Median	Type B	20'-0"	0.00	109.78
2386+35.38	Median	Type B	20'-0"	0.00	109.45
2386+55.40	Median	Type B	20'-0"	0.00	109.1
2386+75.42	Median	Type B	20'-0"	0.00	108.69
2386+95.44	Median	Type B	20'-0"	0.00	108.25
2387+15.47	Median	Type B	20'-0"	0.00	107.8
2387+35.49	Median	Type B	20'-0"	0.00	107.34
2387+55.51	Median	Type B	20'-0"	0.00	106.85
2387+75.53	Median	Type B	20'-0"	0.00	106.36
2387+95.55	Median	Type B	20'-0"	0.00	105.84
2388+15.57	Median	Type B	20'-0"	0.00	105.31
2388+35.59	Median	Type B	20'-0"	0.00	104.76
2388+55.61	Median	Type B	20'-0"	0.00	104.2
2388+75.63	Median	Type B	20'-0"	0.00	103.59
2388+95.65	Median	Type B	20'-0"	0.00	103
2389+15.67	Median	Type B	20'-0"	0.00	102.41
2389+35.69	Median	Type B	20'-0"	0.00	101.83
2389+55.72	Median	Type B	20'-0"	0.00	101.24
2389+75.74	Median	Type B	20'-0"	0.00	100.67
2389+95.76	Median	Type B	20'-0"	0.00	100.1
2390+15.78	Median	Type B	20'-0"	0.00	99.51
2390+35.80	Median	Type B	20'-0"	0.00	98.93
2390+55.82	Median	Type B	20'-0"	0.00	98.38
2390+75.84	Median	Type B	20'-0"	0.00	97.82

2390+95.86	Median	Type B	20'-0"	0.00	97.27
2391+15.88	Median	Type B	20'-0"	0.00	96.71
2391+35.90	Median	Type B	20'-0"	0.00	96.17
2391+55.92	Median	Type B	20'-0"	0.00	95.61
2391+75.94	Median	Type B	20'-0"	0.00	95.09
2391+95.97	Median	Type B	20'-0"	0.00	94.58
2392+15.99	Median	Type B	20'-0"	0.00	94.06
2392+36.01	Median	Type B	20'-0"	0.00	93.56
2392+56.03	Median	Type B	20'-0"	0.00	93.07
2392+76.05	Median	Type B	20'-0"	0.00	92.6
2392+96.07	Median	Type B	20'-0"	0.00	92.13
2393+16.09	Median	Type B	20'-0"	0.00	91.65
2393+36.11	Median	Type B	20'-0"	0.00	91.19
2393+56.13	Median	Type B	20'-0"	0.00	90.76
2393+76.15	Median	Type B	20'-0"	0.00	90.36
2393+96.17	Median	Type B	20'-0"	0.00	89.96
2394+16.19	Median	Type B	20'-0"	0.00	89.56
2394+36.22	Median	Type B	20'-0"	0.00	89.19
2394+56.24	Median	Type B	20'-0"	0.00	88.83
2394+76.26	Median	Type B	20'-0"	0.00	88.5
2394+96.28	Median	Type B	20'-0"	0.00	88.17
2395+16.30	Median	Type B	20'-0"	0.00	87.84
2395+36.32	Median	Type B	20'-0"	0.00	87.52
2395+56.34	Median	Type B	20'-0"	0.00	87.25
2395+76.36	Median	Type B	20'-0"	0.00	86.96
2395+91.38	Median	Type B Odd	15'-0"	0.00	86.78
2396+01.40	Median	Type B Odd	10'-0"	0.00	86.68
2396+21.42	Start Taper	Type B	20'-0"	0.68	86.4
2396+41.44	Taper	Type B	20'-0"	1.35	86.14
2396+61.47	Taper	Type B	20'-0"	2.03	85.88
2396+76.49	End Taper	Type B Odd	15'-0"	2.54	85.69
2396+85.51	Transition	Type D Transition	9'-0"	1.83	87.08
STATION EQUATION EQNBK 2397+05.19; EQNAHD 2397+12.81					
2397+13.15	Pier Protection	Type D	20'-0"	1.83	86.84
2397+33.17	Pier Protection	Type D	20'-0"	1.83	86.55
2397+53.19	Pier Protection	Type D	20'-0"	1.83	86.36
2397+73.21	Pier Protection	Type D	20'-0"	1.83	86.18
2397+93.23	Pier Protection	Type D	20'-0"	1.83	85.94
2398+13.25	Pier Protection	Type D	20'-0"	1.83	85.71
2398+33.27	End Run 9	Type D	20'-0"	1.83	85.48

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Filename: PAW2_Median_Barrier_21.dgn



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (21 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	ALZ	09\21	Checked	PJS	09\21
Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-21

352 OF 376

Date: 9/9/2021

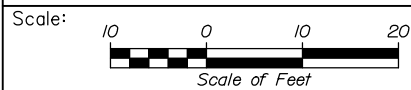
RUN 10					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2396+87.03	Start Run 10	-	-	1.50	86.8
STATION EQUATION EQNBK 2397+05.19; EQNAHD 2397+12.81					
2397+14.67	Pier Protection	Type D	20'-0"	1.83	86.61
2397+34.69	Pier Protection	Type D	20'-0"	1.83	86.39
2397+54.71	Pier Protection	Type D	20'-0"	1.83	86.19
2397+74.73	Pier Protection	Type D	20'-0"	1.83	86.03
2397+94.75	Pier Protection	Type D	20'-0"	1.83	85.84
2398+14.77	Pier Protection	Type D	20'-0"	1.83	85.65
2398+34.80	Pier Protection	Type D	20'-0"	1.83	85.44
2398+43.82	Transition	Type D Transition	9'-0"	2.54	83.93
2398+63.84	Taper	Type B	20'-0"	1.86	83.73
2398+83.86	Taper	Type B	20'-0"	1.18	83.54
2399+03.88	Taper	Type B	20'-0"	0.51	83.35
2399+18.90	Taper	Type B Odd	15'-0"	0.00	83.21
2399+38.92	Median	Type B	20'-0"	0.00	82.98
2399+58.94	Median	Type B	20'-0"	0.00	82.77
2399+78.96	Median	Type B	20'-0"	0.00	82.54
2399+98.98	Median	Type B	20'-0"	0.00	82.31
2400+19.00	Median	Type B	20'-0"	0.00	82.07
2400+39.02	Median	Type B	20'-0"	0.00	81.84
2400+59.05	Median	Type B	20'-0"	0.00	81.62
2400+79.07	Median	Type B	20'-0"	0.00	81.39
2400+99.09	Median	Type B	20'-0"	0.00	81.17
2401+19.11	Median	Type B	20'-0"	0.00	80.96
2401+39.13	Median	Type B	20'-0"	0.00	80.74
2401+59.15	Median	Type B	20'-0"	0.00	80.52
2401+79.17	Median	Type B	20'-0"	0.00	80.29
2401+99.19	Median	Type B	20'-0"	0.00	80.06
2402+19.21	Median	Type B	20'-0"	0.00	79.82
2402+39.23	Median	Type B	20'-0"	0.00	79.6
2402+59.25	Median	Type B	20'-0"	0.00	79.38
2402+79.27	Median	Type B	20'-0"	0.00	79.14
2402+99.30	Median	Type B	20'-0"	0.00	78.9
2403+19.32	Median	Type B	20'-0"	0.00	78.67
2403+39.34	Median	Type B	20'-0"	0.00	78.44
2403+59.36	Median	Type B	20'-0"	0.00	78.19
2403+79.38	Median	Type B	20'-0"	0.00	77.95
2403+99.40	Median	Type B	20'-0"	0.00	77.72
2404+19.42	Median	Type B	20'-0"	0.00	77.5
2404+39.44	Median	Type B	20'-0"	0.00	77.26
2404+59.46	Median	Type B	20'-0"	0.00	76.99
2404+79.48	Median	Type B	20'-0"	0.00	76.75
2404+99.50	Median	Type B	20'-0"	0.00	76.51
2405+19.52	Median	Type B	20'-0"	0.00	76.26
2405+39.55	Median	Type B	20'-0"	0.00	76

2405+59.57	Median	Type B	20'-0"	0.00	75.73
2405+79.59	Median	Type B	20'-0"	0.00	75.42
2405+99.61	Median	Type B	20'-0"	0.00	75.12
2406+19.63	Median	Type B	20'-0"	0.00	74.85
2406+39.65	Median	Type B	20'-0"	0.00	74.6
2406+59.67	Median	Type B	20'-0"	0.00	74.36
2406+79.69	Median	Type B	20'-0"	0.00	74.17
2406+99.71	Median	Type B	20'-0"	0.00	73.99
2407+19.73	Median	Type B	20'-0"	0.00	73.83
2407+39.75	Median	Type B	20'-0"	0.00	73.64
2407+59.77	Median	Type B	20'-0"	0.00	73.43
2407+79.80	Median	Type B	20'-0"	0.00	73.2
2407+99.82	Median	Type B	20'-0"	0.00	72.97
2408+19.84	Median	Type B	20'-0"	0.00	72.74
2408+39.86	Median	Type B	20'-0"	0.00	72.52
2408+59.88	Median	Type B	20'-0"	0.00	72.29
2408+79.90	Median	Type B	20'-0"	0.00	72.08
2408+99.92	Median	Type B	20'-0"	0.00	71.88
2409+19.94	Median	Type B	20'-0"	0.00	71.69
2409+39.96	Median	Type B	20'-0"	0.00	71.49
2409+59.98	Median	Type B	20'-0"	0.00	71.29
2409+80.00	Median	Type B	20'-0"	0.00	71.09
2410+00.02	Median	Type B	20'-0"	0.00	70.88
2410+20.05	Median	Type B	20'-0"	0.00	70.68
2410+40.07	Median	Type B	20'-0"	0.00	70.46
2410+60.09	Median	Type B	20'-0"	0.00	70.25
2410+80.11	Median	Type B	20'-0"	0.00	70.03
2411+00.13	Median	Type B	20'-0"	0.00	69.8
2411+20.15	Median	Type B	20'-0"	0.00	69.56
2411+40.17	Median	Type B	20'-0"	0.00	69.33
2411+60.19	Median	Type B	20'-0"	0.00	69.13
2411+80.21	Median	Type B	20'-0"	0.00	68.92
2412+00.23	Median	Type B	20'-0"	0.00	68.74
2412+20.25	Start Taper	Type B	20'-0"	0.67	68.51
2412+40.27	Taper	Type B	20'-0"	1.33	68.26
2412+60.30	Taper	Type B	20'-0"	2.00	68
2412+75.32	End Taper	Type B Odd	15'-0"	2.50	67.83
2412+84.34	Transition	Type C Transition	9'-0"	1.79	69.25
2413+04.36	Pier Protection	Type C	20'-0"	1.79	69.05
STATION EQUATION EQNBK 2413+10.97; EQNAHD 2413+11.74					
2413+25.15	Pier Protection	Type C	20'-0"	1.79	68.83
2413+45.17	Pier Protection	Type C	20'-0"	1.79	68.62
2413+65.19	Pier Protection	Type C	20'-0"	1.79	68.46
2413+85.21	Pier Protection	Type C	20'-0"	1.79	68.27
2414+00.23	End Run 10	Type C Odd	15'-0"	1.79	68.17

RUN 11					
Station	Location	Barrier Type	Piece Length (ft)	Offset (ft)	Top of Barrier Elevation
2412+87.28	Start Run 11	-	-	1.79	69
2413+03.07	Pier Protection	Type C Odd	15'-0"	1.79	68.82
STATION EQUATION EQNBK 2413+10.97; EQNAHD 2413+11.74					
2413+23.09	Pier Protection	Type C	20'-0"	1.79	68.6
2413+43.11	Pier Protection	Type C	20'-0"	1.79	68.43
2413+63.13	Pier Protection	Type C	20'-0"	1.79	68.28
2413+83.15	Pier Protection	Type C	20'-0"	1.79	68.2
2414+03.17	Pier Protection	Type C	20'-0"	1.79	68.17
2414+12.19	Transition	Type C Transition	9'-0"	2.50	66.68
2414+32.21	Taper	Type B	20'-0"	1.83	66.65
2414+52.23	Taper	Type B	20'-0"	1.17	66.65
2414+72.25	Taper	Type B	20'-0"	0.50	66.65
2414+87.27	Taper	Type B Odd	15'-0"	0.00	66.66
2415+07.30	Median	Type B	20'-0"	0.00	66.64
2415+27.32	Median	Type B	20'-0"	0.00	66.62
2415+47.34	Median	Type B	20'-0"	0.00	66.6
2415+67.36	Median	Type B	20'-0"	0.00	66.56
2415+87.38	Median	Type B	20'-0"	0.00	66.53
2416+07.40	Median	Type B	20'-0"	0.00	66.51
2416+27.42	Median	Type B	20'-0"	0.00	66.48
2416+47.44	Median	Type B	20'-0"	0.00	66.46
2416+67.46	Median	Type B	20'-0"	0.00	66.45
2416+87.48	Median	Type B	20'-0"	0.00	66.42
2417+07.50	Median	Type B	20'-0"	0.00	66.4
2417+27.52	Median	Type B	20'-0"	0.00	66.37
2417+47.55	Median	Type B	20'-0"	0.00	66.35
2417+67.57	Median	Type B	20'-0"	0.00	66.43
2417+87.59	Median	Type B	20'-0"	0.00	66.51
2418+07.61	Median	Type B	20'-0"	0.00	66.58
2418+27.63	Median	Type B	20'-0"	0.00	66.65
2418+47.65	Median	Type B	20'-0"	0.00	66.73
2418+67.67	Median	Type B	20'-0"	0.00	66.83
2418+87.69	Median	Type B	20'-0"	0.00	66.9
2419+07.71	Median	Type B	20'-0"	0.00	66.99
2419+27.73	Median	Type B	20'-0"	0.00	67.07
2419+47.75	Median	Type B	20'-0"	0.00	67.13
2419+67.77	Median	Type B	20'-0"	0.00	67.16
2419+87.80	Median	Type B	20'-0"	0.00	67.17
2420+07.82	Median	Type B	20'-0"	0.00	67.19
2420+27.84	Median	Type B	20'-0"	0.00	67.22
2420+47.86	Median	Type B	20'-0"	0.00	67.3
2420+67.88	Median	Type B	20'-0"	0.00	67.45
2420+87.90	Median	Type B	20'-0"	0.00	67.64
2421+07.92	Median	Type B	20'-0"	0.00	67.8
2421+27.94	Median	Type B	20'-0"	0.00	67.91
2421+47.96	Median	Type B	20'-0"	0.00	67.98
2421+67.98	Median	Type B	20'-0"	0.00	68.06
2421+88.00	Median	Type B	20'-0"	0.00	68.27
2422+08.02	Median	Type B	20'-0"	0.00	68.51
2422+28.05	Median	Type B	20'-0"	0.00	68.74
2422+48.07	Median	Type B	20'-0"	0.00	68.96
2422+68.09	Median	Type B	20'-0"	0.00	69.17
2422+88.11	Median	Type B	20'-0"	0.00	69.36
2423+08.13	Median	Type B	20'-0"	0.00	69.53
2423+28.15	End Run 11	Type B	20'-0"	0.00	69.69

MEDIAN BARRIER LAYOUT TABLE NOTES:

1. OFFSETS AND ELEVATIONS SHOWN IN THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.
2. MEDIAN BARRIER SHALL BE 36" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
3. TYPE C AND TYPE D BARRIER SHALL BE 54" ABOVE FUTURE PAVEMENT ELEVATION AND HAVE A MINIMUM 5/2" OF EMBEDMENT AS SHOWN IN THE BARRIER DETAIL SHEETS.
4. OFFSETS FROM BASELINE TO BACK FACE OF TYPE C OR D BARRIER SHOWN IN THE LAYOUT PLANS SHALL BE MET.
5. OFFSETS REPORTED IN THE TABLES ARE FROM TURNPIKE BASELINE TO BACK FACE OF TYPE C OR D BARRIER AND FROM TURNPIKE BASELINE TO CENTERLINE OF TYPE B BARRIER.



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 46.4 TO MM 49.3
MEDIAN BARRIER LAYOUT (22 OF 22)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.						
	By	Date		By	Date	
	Designed	ALZ	09\21	Checked	PJS	09\21
	Drawn	WAD	09\21	In Charge of	TRC	09\21

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: BL-22

353 OF 376

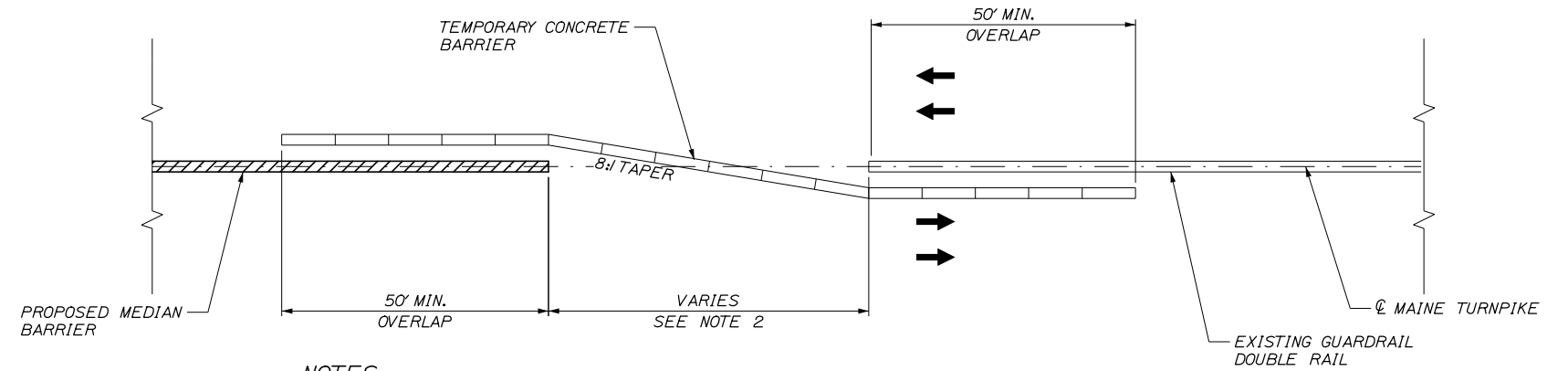
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BARRIER NOTES

1. INSTALLATION OF BARRIER REFLECTORS IN ACCORDANCE WITH TABLE 1 WILL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
2. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL PROVIDE A MASH-16 COMPLIANT END TREATMENT. SEE TEMPORARY CONCRETE BARRIER LAP DETAIL.
3. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL SURFACES ABOVE FINISHED GRADE AND SHALL EXTEND 1 FT BELOW FINISHED GRADE OR BOTTOM OF BARRIER IN ACCORDANCE WITH SPECIAL PROVISION 515. PROTECTIVE COATING SHALL BE APPLIED PRIOR TO INSTALLATION OF PRECAST BARRIERS AND PRIOR TO ATTACHMENT OF ADJACENT BARRIERS FOR CAST-IN-PLACE BARRIERS. THE APPLICATION OF CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES SHALL NOT BE MEASURED FOR PAYMENT SEPARATELY, BUT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS.
4. ANY NECESSARY DEWATERING OF FOUNDATION EXCAVATION FOR INSTALLATION OF PIER PROTECTION BARRIER SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS.
5. EXPANSION JOINTS FOR PIER PROTECTION BARRIER SHALL BE PROVIDED EVERY 50 FT. CONTRACTION JOINTS SHALL BE PROVIDED EVERY 25 FT. CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAINEDOT STANDARD DETAILS, SECTION 502.
6. EXCAVATION AND GRANULAR BORROW BEDDING MATERIAL FOR INSTALLATION OF BARRIER AND ASSOCIATED TRANSITIONS SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS.
7. AT THE CONTRACTOR'S DISCRETION, THE PORTION OF BARRIER EMBEDDED BELOW GRADE MAY BE CAST WITH A VERTICAL FACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS TO THE REBAR REQUIRED TO MAINTAIN THE BAR COVER AND POSITION. THESE CHANGES WILL BE AT NO ADDITIONAL CHARGE TO THE AUTHORITY.
8. THE TOP OF BARRIER SHALL BE FLUSH ACROSS ALL JOINTS, INCLUDING CONSTRUCTION, CONTRACTION, EXPANSION, AND STRUCTURAL TUBE CONNECTIONS. THE TOP OF THE BARRIER, EXCEPT AS REQUIRED AT HEIGHT TRANSITIONS, SHALL BE PARALLEL TO THE PAVEMENT SURFACE AT EDGE OF TRAVELWAY.
9. SCREW PIN FOR I-BEAM D-SHACKLES SHALL BE SECURED WITH AN APPROVED THREAD LOCK MATERIAL DURING FINAL ASSEMBLY.
10. A D-SHACKLE SHALL BE ATTACHED TO EACH I-BEAM.

STRUCTURAL NOTES

1. PRIOR TO FABRICATING THE PRECAST CONCRETE BARRIER AND REINFORCING THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS OF THE PROPOSED MEDIAN BARRIER LAYOUT AND ITS COMPONENTS IN ACCORDANCE WITH SPECIAL PROVISION 526.
2. REINFORCING SCHEDULES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH DEVELOPING THE REINFORCEMENT SCHEDULES WILL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.
3. COVER TO REINFORCING AT BARRIER ENDS SHALL BE 3", AT ALL OTHER LOCATIONS COVER SHALL BE 2 1/2", UNLESS OTHERWISE NOTED.
4. ALL PROPOSED BARRIER CONNECTION COMPONENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
5. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.



NOTES:

1. BARRIER ENDS AND GUARDRAIL ENDS SHALL BE PROTECTED BY MASH-16 COMPLIANT IMPACT ATTENUATION SYSTEM OR LAPPED BEHIND TEMPORARY CONCRETE BARRIER AS SHOWN IN THE DETAIL ABOVE.
2. 8:1 TAPERED BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO SHOULDERS, LANES, AND THE CONTRACTOR'S OPERATION.
3. IF A TEMPORARY WORK ZONE CRASH CUSHION IS USED, THE WORK ZONE CRASH CUSHION SYSTEM MUST BE FOUNDED ON A LEVEL SURFACE. ANY WORK NECESSARY TO PROVIDE A LEVEL SURFACE WILL BE INCIDENTAL TO THE WORK ZONE CRASH CUSHION ITEM.


TEMPORARY CONCRETE BARRIER LAP DETAIL

NOT TO SCALE

TABLE 1	
SPACING OF REFLECTORS	
RADIUS OF HORIZONTAL CURVE	CL TO CL DISTANCE BETWEEN REFLECTORS
LESS THAN 2000'	115'
2000' TO 3000'	130'
3000' TO 5000'	160'
OVER 5000'	200'
TANGENT AREA	200'

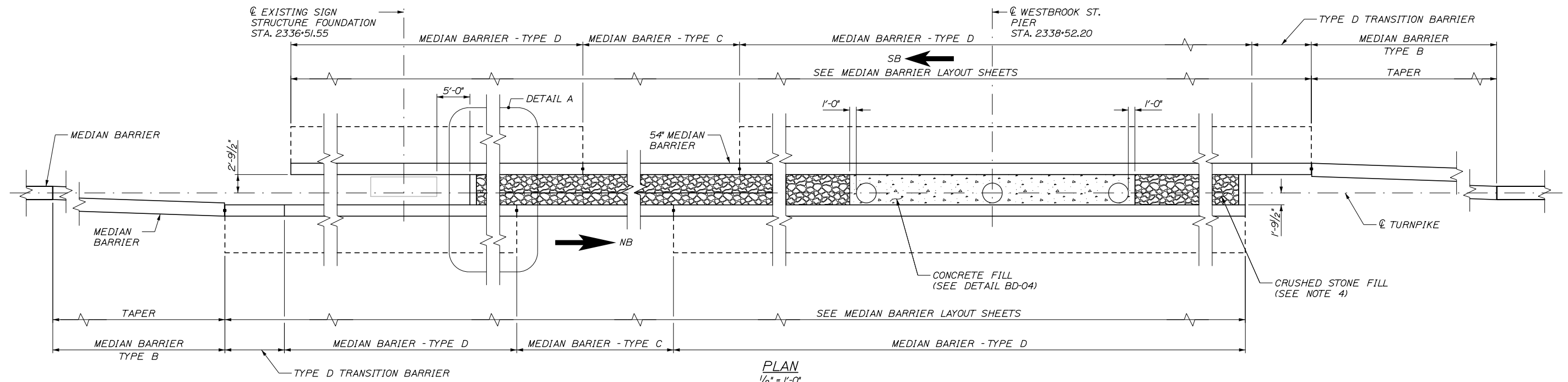
Date: 9/8/2021

Filename: PAW2_Barrier Notes and Location Plan

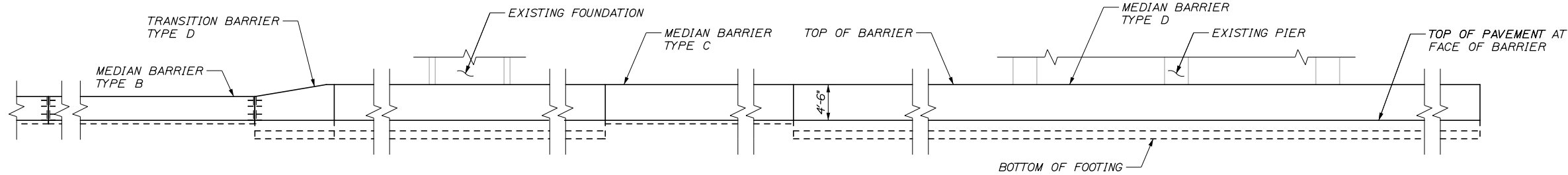
Scale: NO SCALE	Designed by: HNTB	HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909		THE GOLD STAR MEMORIAL HIGHWAY	PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS BARRIER NOTES																		
<table border="1" style="width: 100%; border-collapse: 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													CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.		SHEET NUMBER: BD-01 CONTRACT: 2021.08 354 OF 376			
No.	Revision	By	Date																				
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	By	Date		By	Date																		
Designed	JDW	09\21	Checked	BRG	09\21																		
Drawn	PEB	09\21	In Charge of	TRC	09\21																		

Date: 9/8/2021

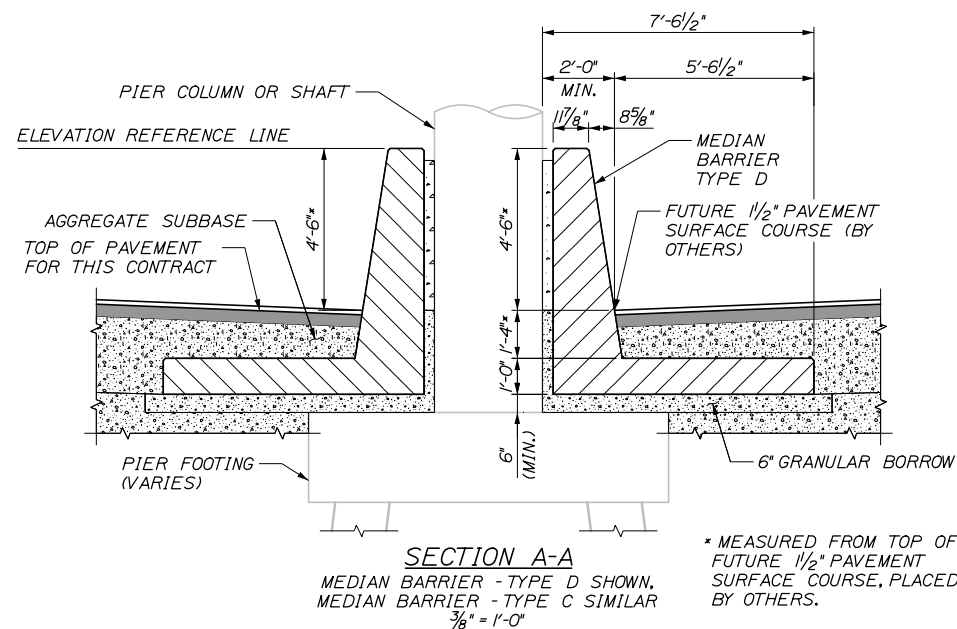
Filename: PAW2-Median Barrier Pier Protection - Pier Protection Layout 1



PLAN
1/8" = 1'-0"



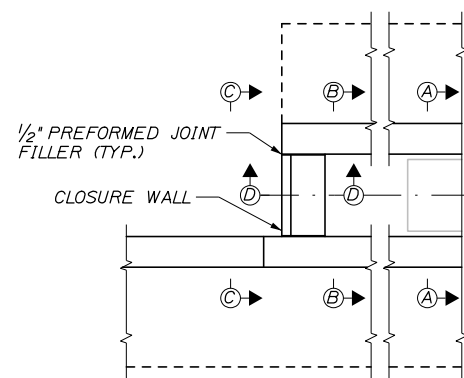
ELEVATION
(ONLY BARRIER ON NEAR SIDE OF PIER SHOWN FOR CLARITY)
1/8" = 1'-0"



SECTION A-A

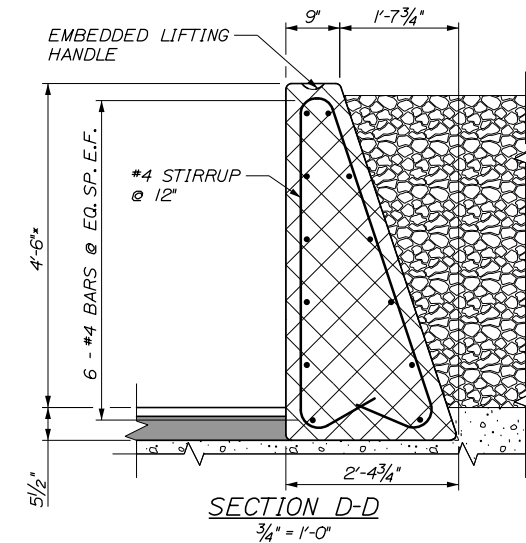
MEDIAN BARRIER - TYPE D SHOWN,
MEDIAN BARRIER - TYPE C SIMILAR
3/16" = 1'-0"

* MEASURED FROM TOP OF
FUTURE 1/2" PAVEMENT
SURFACE COURSE, PLACED
BY OTHERS.



DETAIL A

(MEDIAN BARRIER - TYPE D SHOWN,
MEDIAN BARRIER - TYPE C SIMILAR)
3/16" = 1'-0"



SECTION D-D

3/4" = 1'-0"

NOTES:

1. FOR SECTION B-B AND C-C, SEE SHEET BD-03.
2. EMBEDDED LIFTING HANDLE FOR CLOSURE WALL SHALL BE A P140 FORGED FOOT ANCHOR AND T10 VOID FORMER AS MANUFACTURED BY DAYTON SUPERIOR, OR SIMILAR, AND SHALL HAVE A MINIMUM LENGTH OF 6/2".
3. CLOSURE WALL SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCIDENTAL TO RELATED PAY ITEMS.
4. CRUSHED STONE FILL SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 610 AND BE PAID UNDER ITEM 610.071 STONE FILL.
5. FLOWABLE CONCRETE FILL SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 502 AND BE PAID UNDER ITEM 502.5651 FLOWABLE CONCRETE FILL.
6. CONCRETE CAP SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 502 AND BE PAID UNDER ITEM 502.57 CONCRETE CAP. CONCRETE CAP SHALL CONTAIN 3 LBS PER CUBIC YARD OF SYNTHETIC REINFORCEMENT IN ACCORDANCE WITH SPECIAL PROVISION 503. SYNTHETIC FIBER REINFORCEMENT: FIBER REINFORCEMENT SHALL BE INCIDENTAL TO 502.57 CONCRETE CAP.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	JDW 09\21	Checked	BRG 09\21
				Drawn	PEB 09\21	In Charge of	TRC 09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

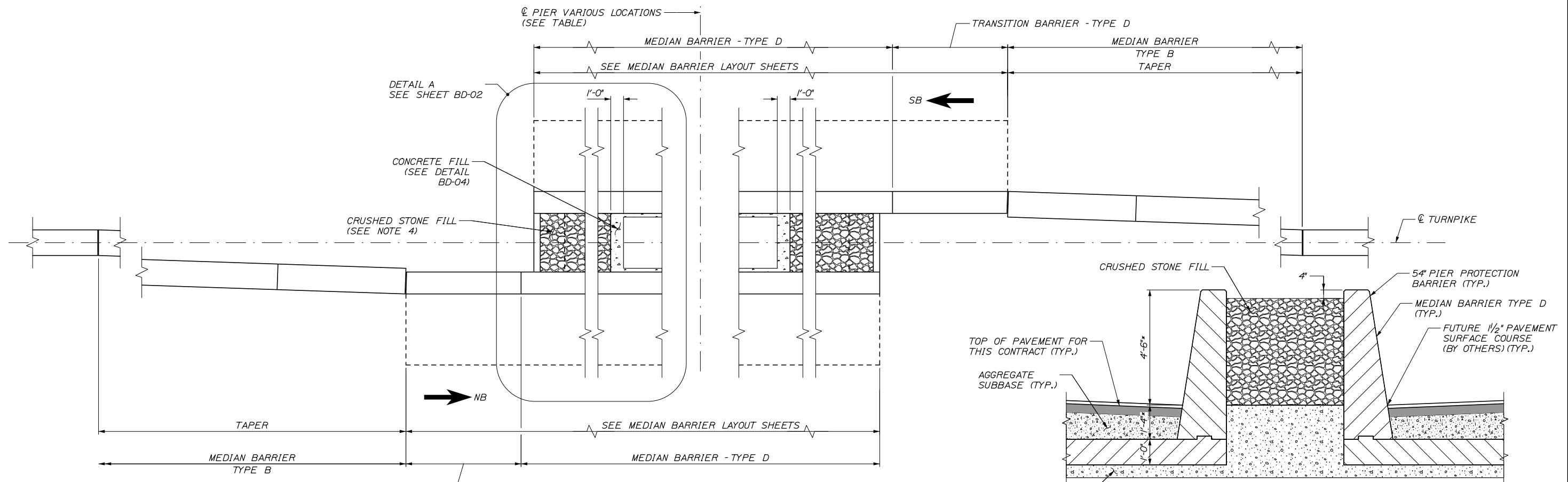
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER PIER PROTECTION
PIER PROTECTION LAYOUT I

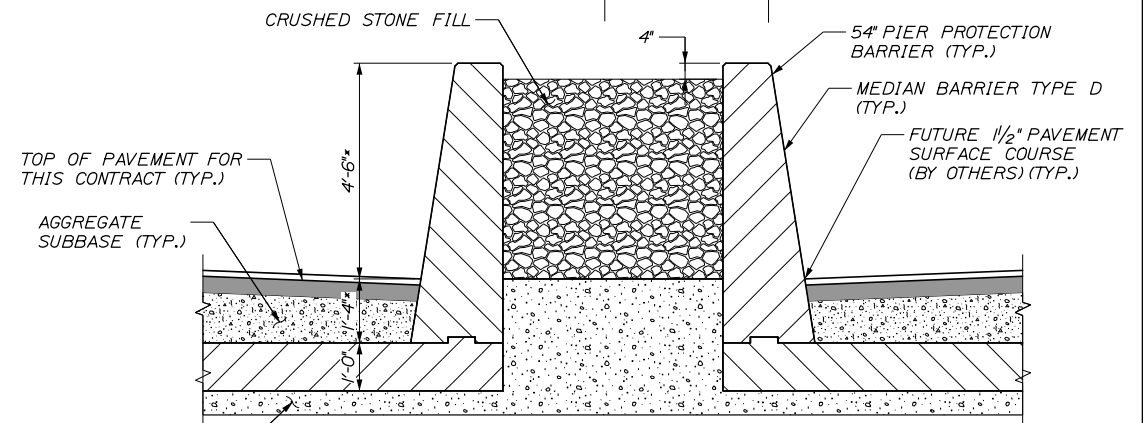
SHEET NUMBER: BD-02
CONTRACT: 2021.08
355 OF 376

Date: 9/8/2021

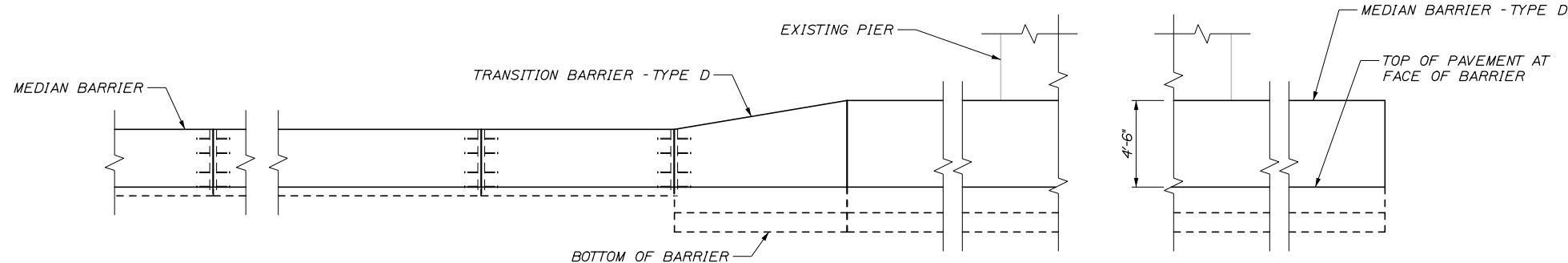
Filename: PAW2-Median Barrier Pier Protection - Pier Protection Layout II



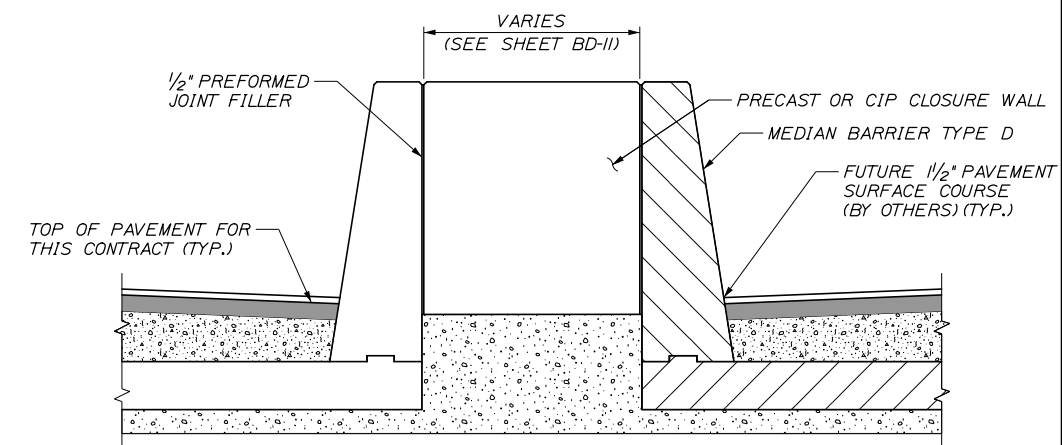
PLAN
1/4" = 1'-0"



SECTION B-B
(MEDIAN BARRIER TYPE D SHOWN,
MEDIAN BARRIER TYPE C SIMILAR)
1/2" = 1'-0"



ELEVATION
(ONLY BARRIER ON NEAR SIDE OF PIER SHOWN FOR CLARITY)
1/4" = 1'-0"



SECTION C-C
(MEDIAN BARRIER TYPE D SHOWN,
MEDIAN BARRIER TYPE C SIMILAR)
1/2" = 1'-0"

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

NOTES:

- FOR SECTION A-A, SEE SHEET BD-02.
- EMBEDDED LIFTING HANDLE FOR CLOSURE WALL SHALL BE A P140 FORGED FOOT ANCHOR AND T110 VOID FORMER AS MANUFACTURED BY DAYTON SUPERIOR, OR SIMILAR, AND SHALL HAVE A MINIMUM LENGTH OF 6 1/2".
- CLOSURE WALL SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCIDENTAL TO RELATED PAY ITEMS.
- CRUSHED STONE FILL SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 610 AND BE PAID UNDER ITEM 610.071 STONE FILL.
- FLOWABLE CONCRETE FILL SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 502 AND BE PAID UNDER ITEM 502.5651 FLOWABLE CONCRETE FILL.
- CONCRETE CAP SHALL MEET THE REQUIREMENTS OF SPECIAL PROVISION 502 AND BE PAID UNDER ITEM 502.57 CONCRETE CAP. CONCRETE CAP SHALL CONTAIN 3 LBS PER CUBIC YARD OF SYNTHETIC FIBER REINFORCEMENT IN ACCORDANCE WITH SPECIAL PROVISION 503, SYNTHETIC FIBER REINFORCEMENT. FIBER REINFORCEMENT SHALL BE INCIDENTAL TO ITEM 502.57 CONCRETE CAP.
- STONE FILL, CONCRETE FILL, AND CONCRETE CAP ARE NOT REQUIRED AT EXIT 47 AND RAND ROAD BRIDGES.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	JDW 09\21	Checked	BRG 09\21
				Drawn	PEB 09\21	In Charge of	TRC 09\21

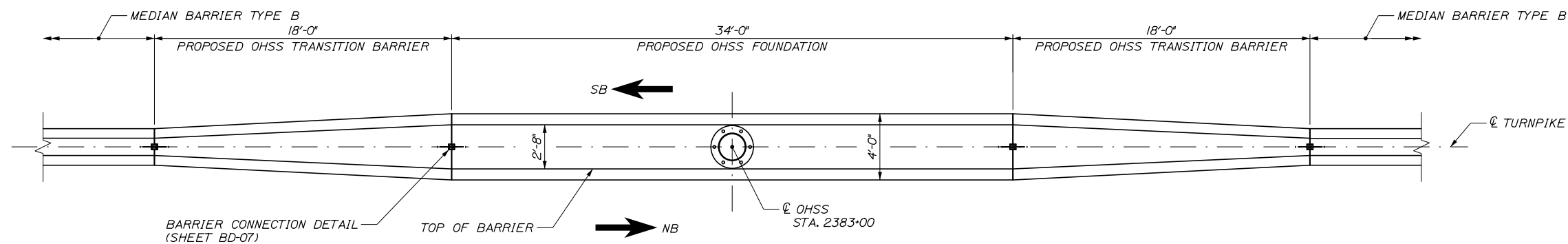
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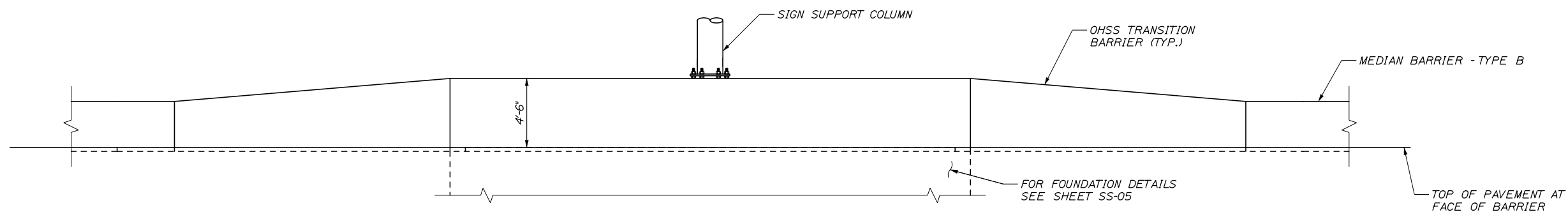
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.			
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PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MEDIAN BARRIER PIER PROTECTION PIER PROTECTION LAYOUT II	
CONTRACT: 2021.08	SHEET NUMBER: BD-03 356 OF 376

Date: 9/8/2021



PLAN
SCALE: 1/4" = 1'-0"




ELEVATION
SCALE: 1/4" = 1'-0"

Filename: PAW2-Median Barrier Pier Protection - Pier Protection Layout IV

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JDW	09\21	Checked	BRG	09\21
Drawn	PEB	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
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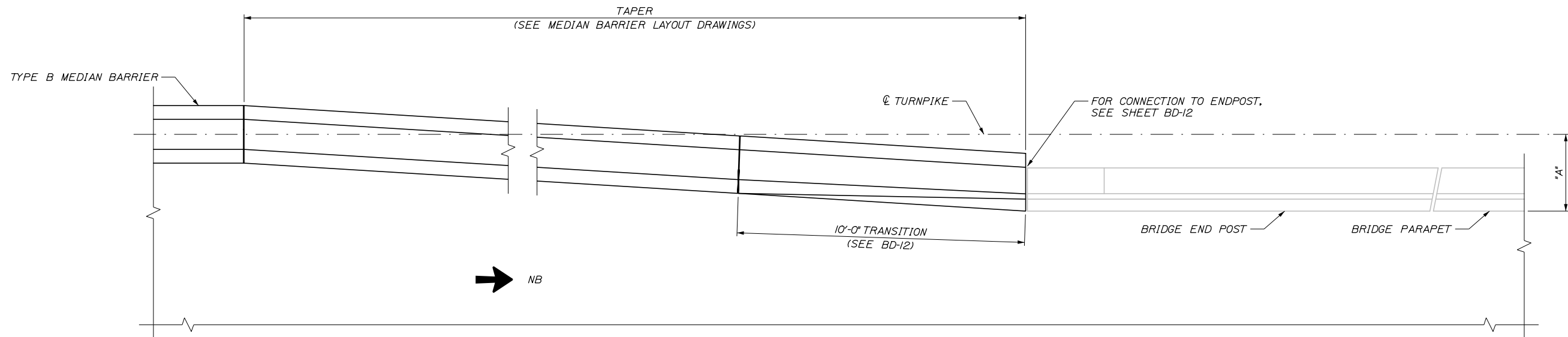
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MEDIAN BARRIER PIER PROTECTION
PIER PROTECTION LAYOUT IV

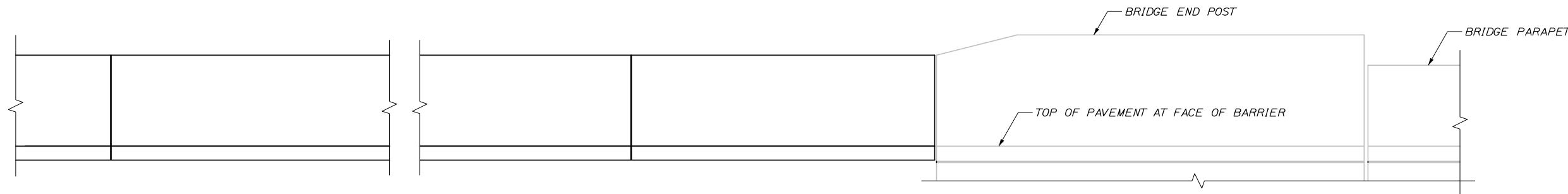
SHEET NUMBER: BD-05
CONTRACT: 2021.08
358 OF 376

Date: 9/8/2021

Filename: PAW2-Median Barrier Pier Protection - Bridge End Post Transition Layout



PLAN
(NB SHOWN, SB SIMILAR)
1/2" = 1'-0"




ELEVATION
(NB SHOWN, SB SIMILAR)
1/2" = 1'-0"

NOTE:
1. PRIOR TO DEVELOPMENT OF BARRIER SHOP DRAWINGS CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING BRIDGE END POSTS. ALL MODIFICATIONS REQUIRED TO TIE INTO EXISTING END POSTS SHALL BE REFLECTED ON THE SHOP DRAWINGS. SURVEY AND FIELD VERIFICATION FOR EXISTING FEATURES THAT MEDIAN BARRIER MUST TIE INTO SHALL BE INCIDENTAL TO RELATED MEDIAN BARRIER PAY ITEMS.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
Designed	JDW	09\21	Checked BRG 09\21
Drawn	ERB	09\21	In Charge of TRC 09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER - PIER PROTECTION
BRIDGE END POST TRANSITION LAYOUT

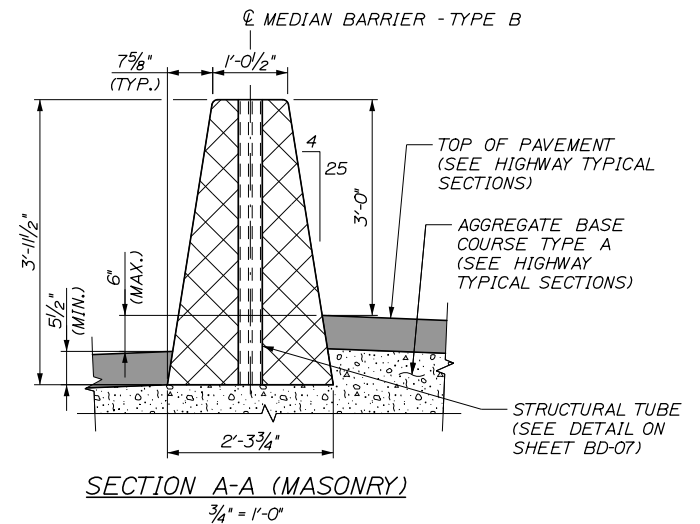
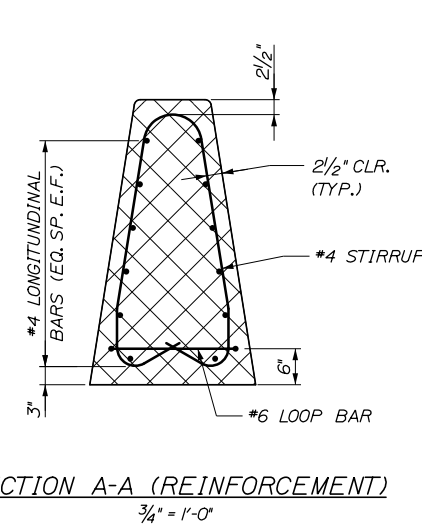
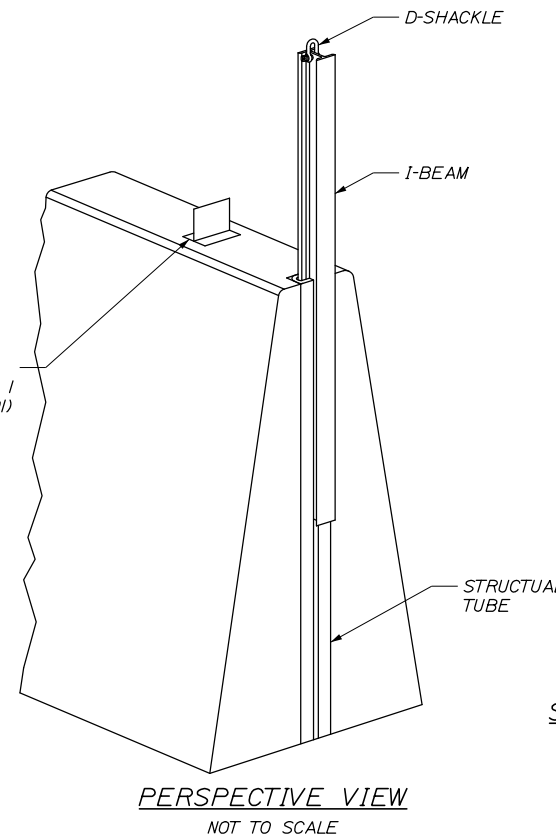
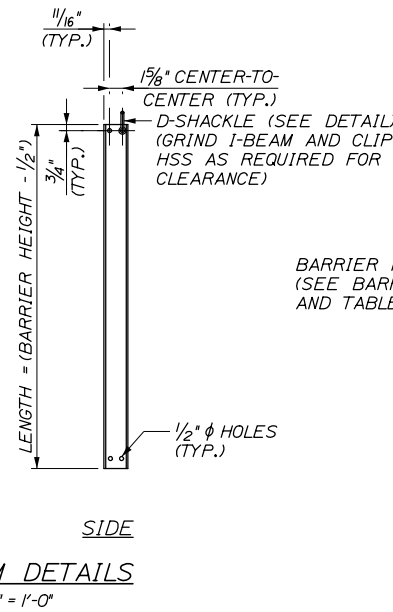
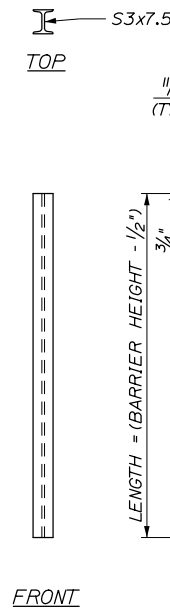
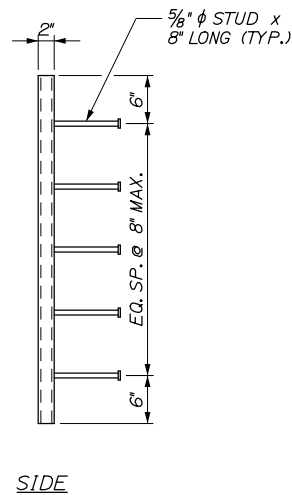
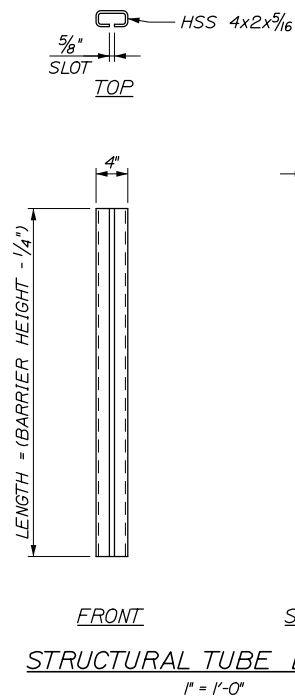
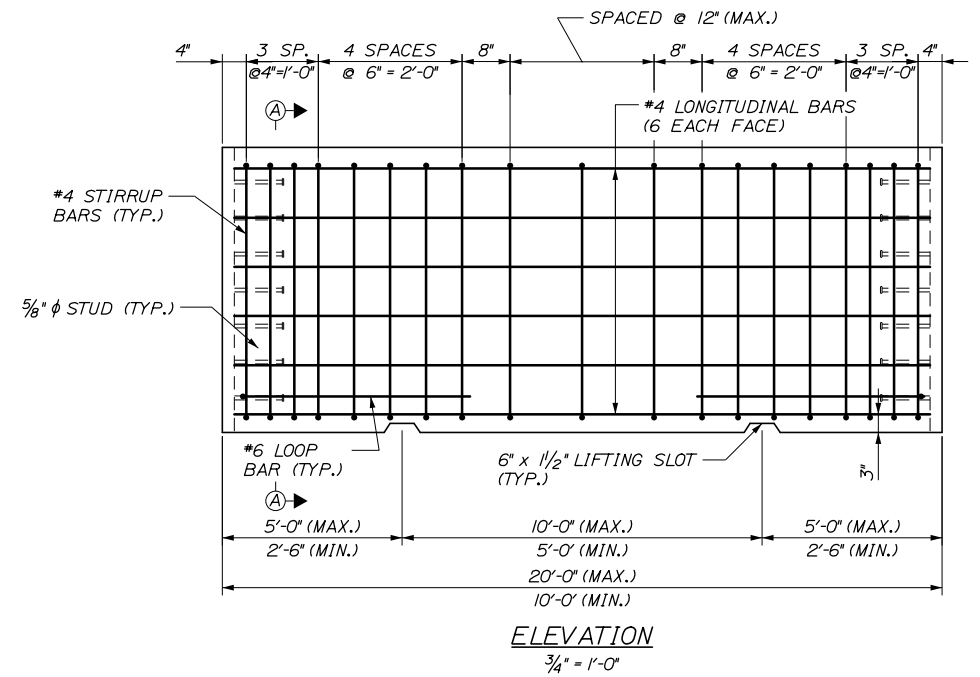
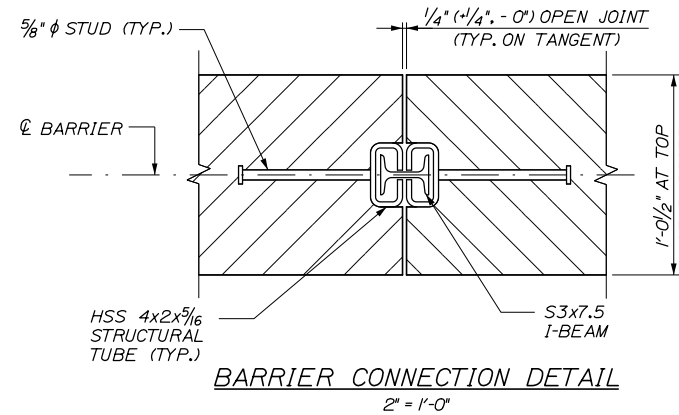
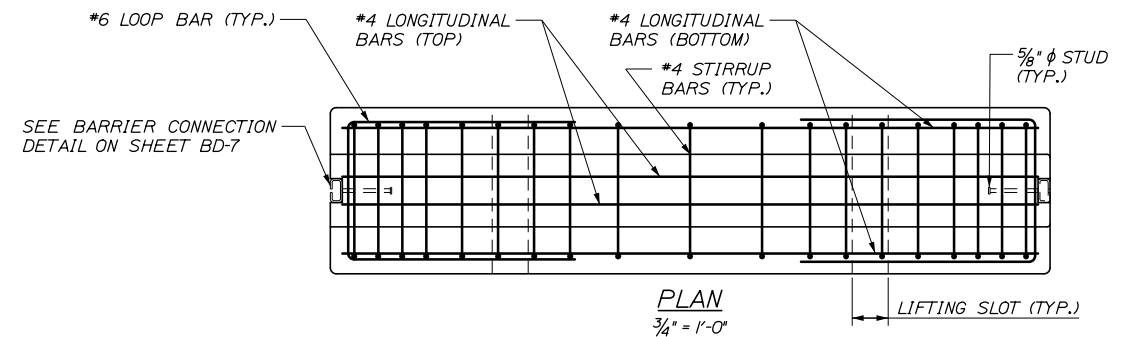
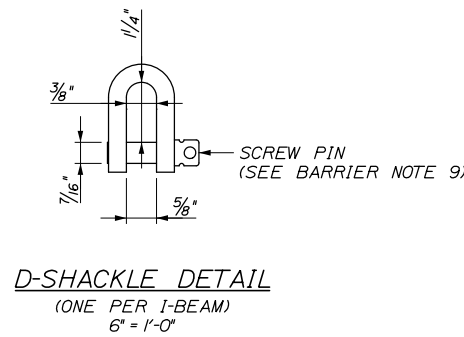
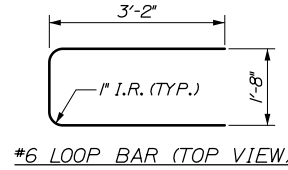
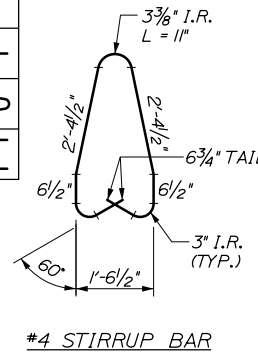
SHEET NUMBER: BD-06
CONTRACT: 2021.08
359 OF 376

Date: 9/8/2021

Filename: PAW2 - Median Barrier - Type B

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	12	19'-6"	
STIRRUPS	#4	19	8'-6"	
LOOP BAR	#6	2	8'-0"	

* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.




- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-01.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-07.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	

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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER
MEDIAN BARRIER - TYPE B

SHEET NUMBER: BD-07
CONTRACT: 2021.08
360 OF 376

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

Date: 9/8/2021

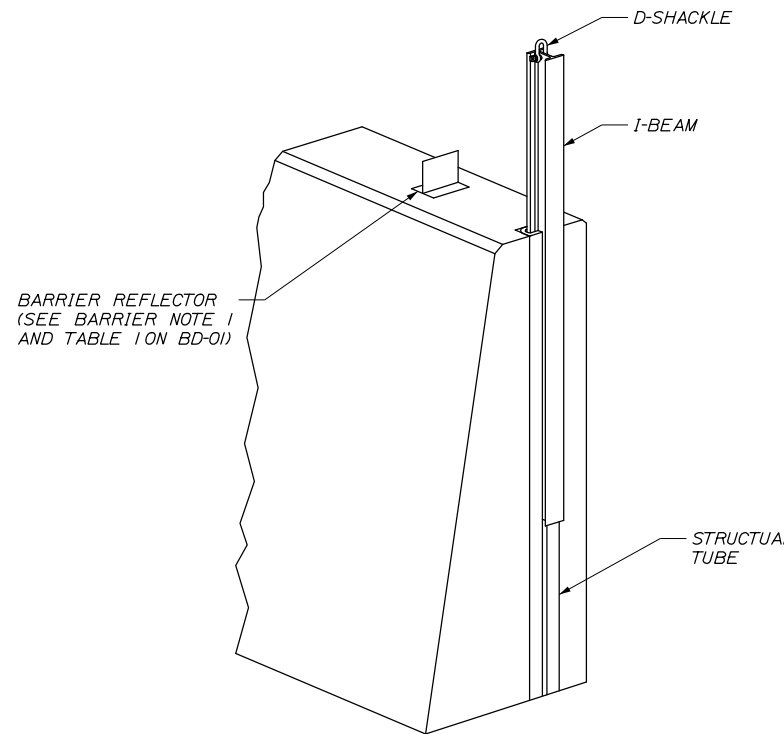
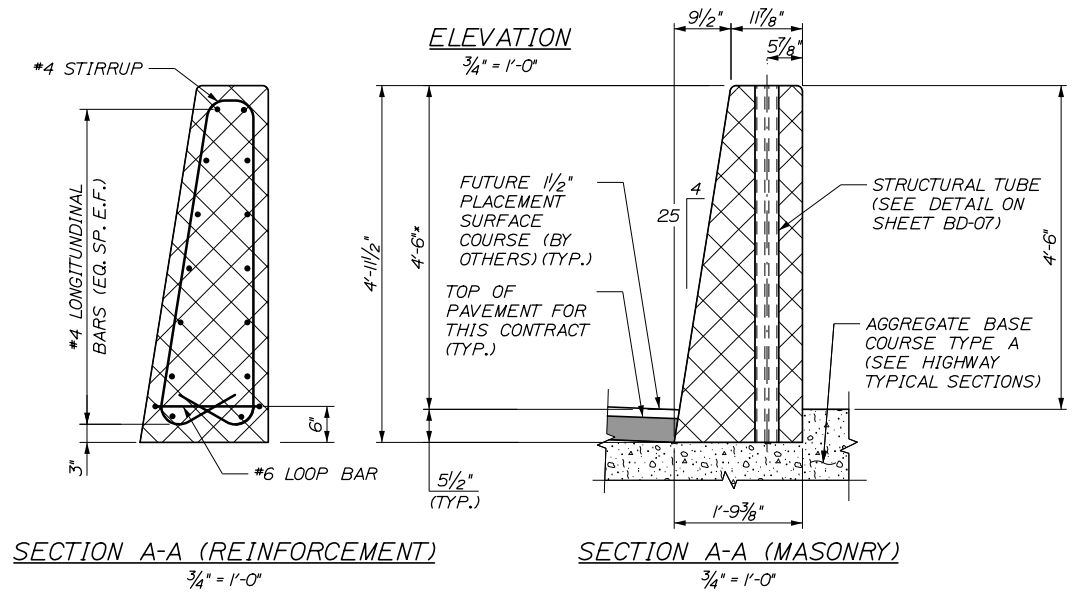
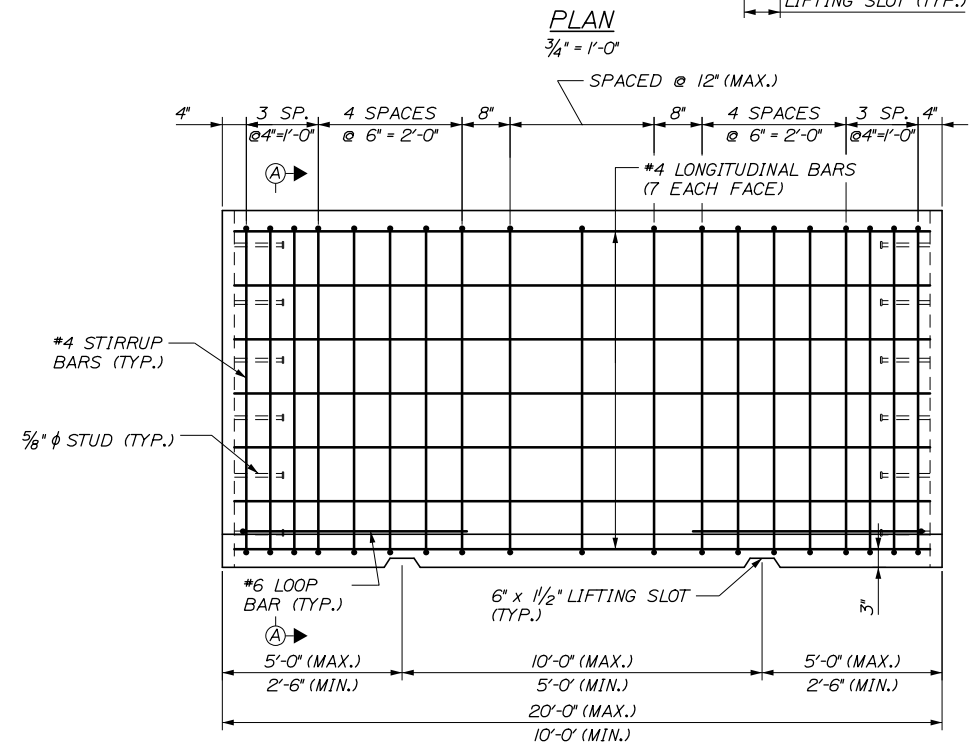
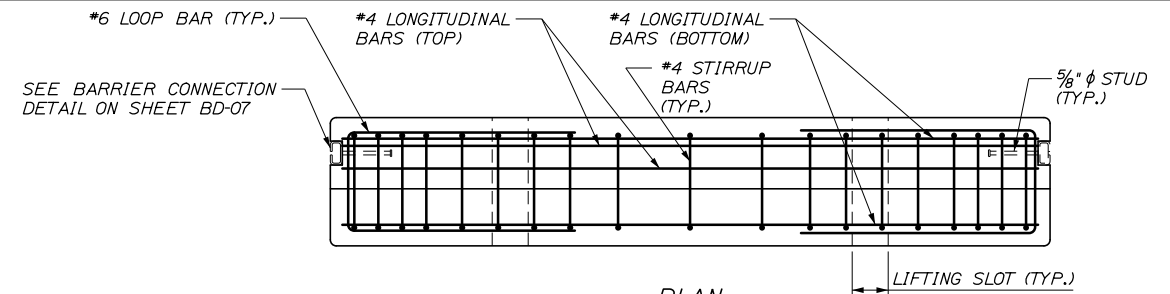
Filename: PAW2_Median Barrier - Type C

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	19'-6"	
STIRRUPS	#4	29	11'-2"	
LOOP BAR	#6	2	7'-9"	

#6 LOOP BAR (TOP VIEW)

#4 STIRRUP BAR

* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.




* MEASURED FROM TOP OF FUTURE 1 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-01.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-07.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	By	Date	
	By	Date	

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER
MEDIAN BARRIER - TYPE C

SHEET NUMBER: BD-08
361 OF 376

CONTRACT: 2021.08

Date: 9/8/2021

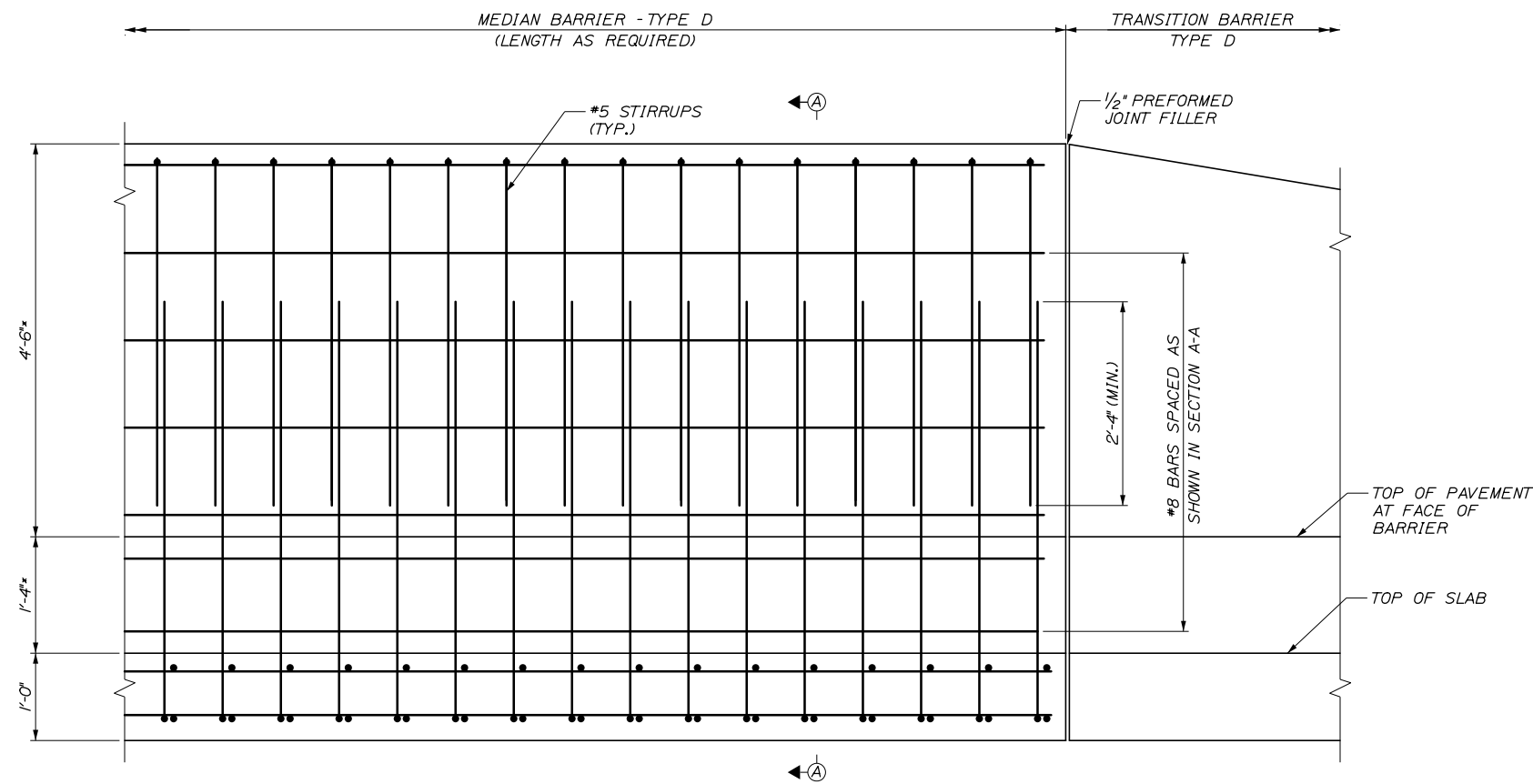
Filename: PAW2_Median Barrier - Median Barrier - Type D

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
STIRRUPS	#5	20	9'-4"	
STIRRUPS	#5	20	10'-4"	
TRANSVERSE FOOTING	#5	40	6'-10"	
LONGITUDINAL FOOTING	#5	32	DETERMINED BY CONTRACTOR	
LONGITUDINAL	#8	14	DETERMINED BY CONTRACTOR	

#5 STIRRUP BAR

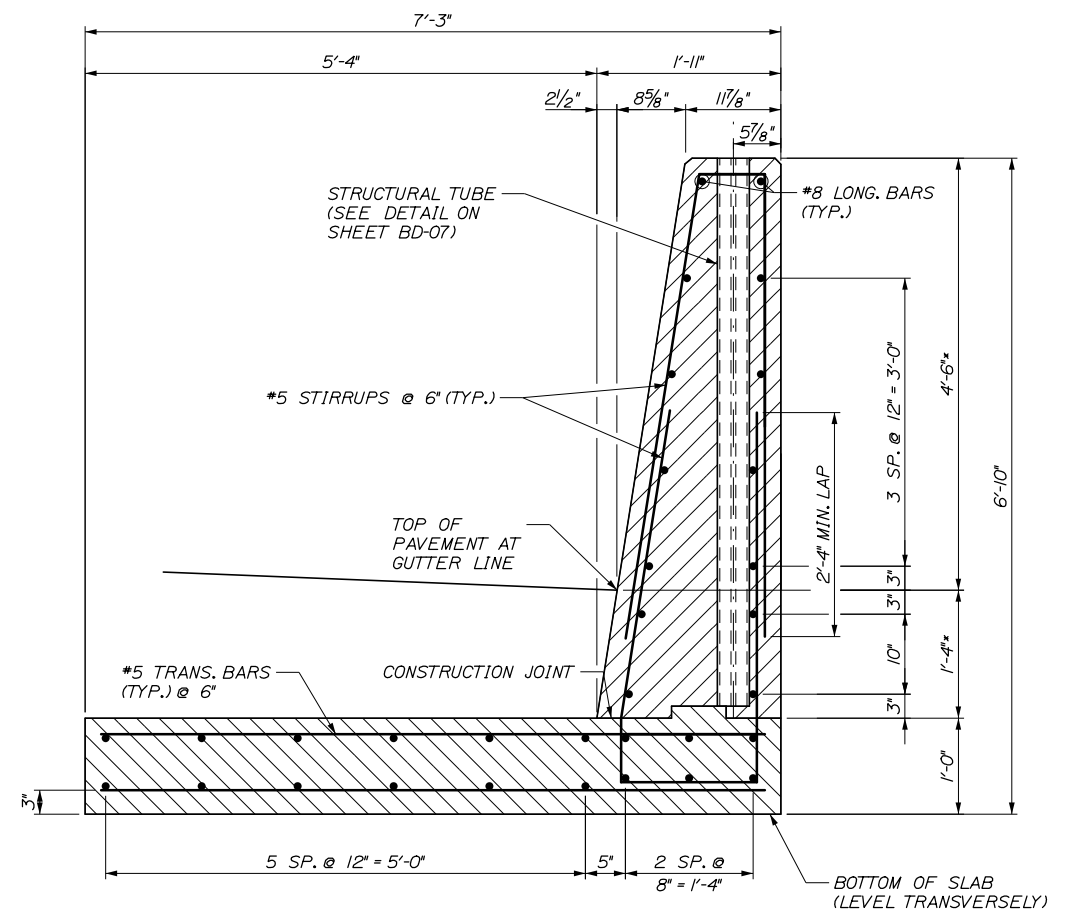
#5 STIRRUP BAR

NOTE - NUMBER OF TRANSVERSE BARS PER 10 FT. SEGMENT OF STRUCTURE. LONGITUDINAL BAR LENGTH SHALL BE DETERMINED BY CONTRACTOR. MINIMUM SLICE LENGTHS SHALL BE:
 #5 - 2'-4"
 #8 - 4'-2"
 SPLICES SHALL BE STAGGERED A MINIMUM OF 8 FT.



ELEVATION
1" = 1'-0"

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.



SECTION A-A
1" = 1'-0"

NOTES:
1. FOR BARRIER NOTES, SEE SHEET BD-01.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	JDW 09\21	Checked	BRG 09\21
				Drawn	PEB 09\21	In Charge of	TRC 09\21

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER
MEDIAN BARRIER - TYPE D

SHEET NUMBER: BD-09
CONTRACT: 2021.08
362 OF 376

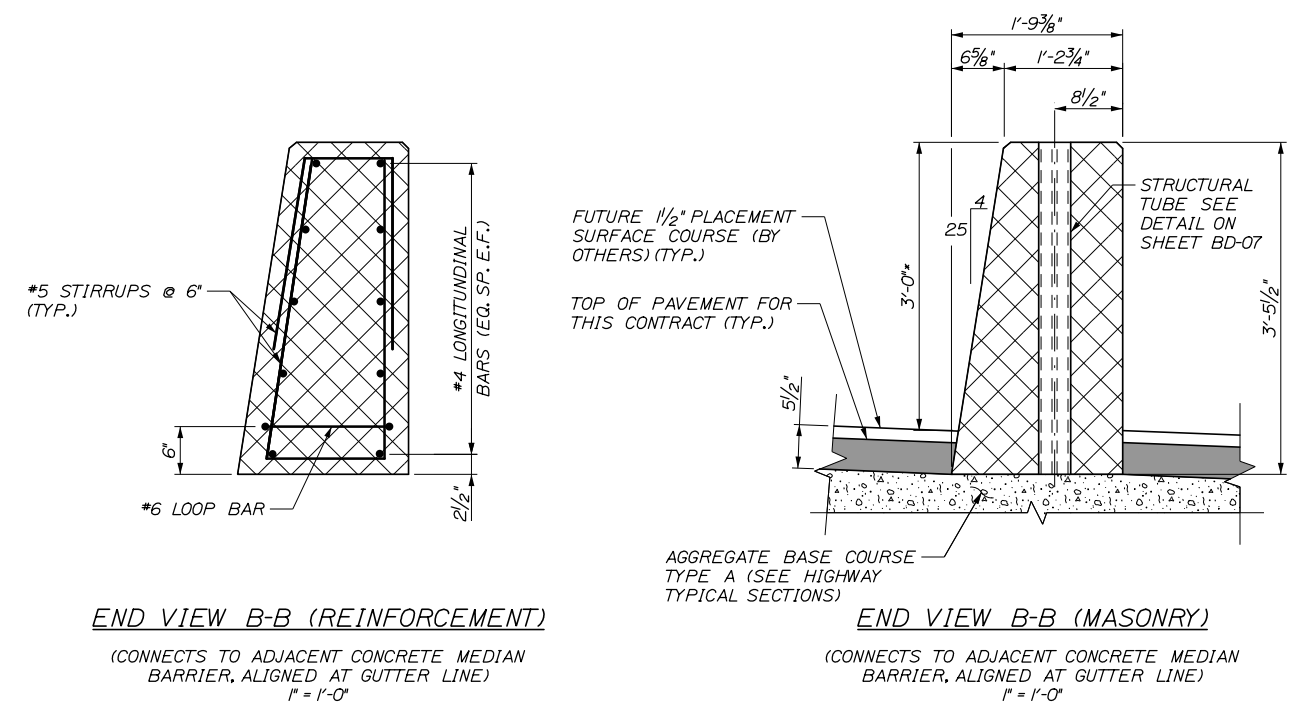
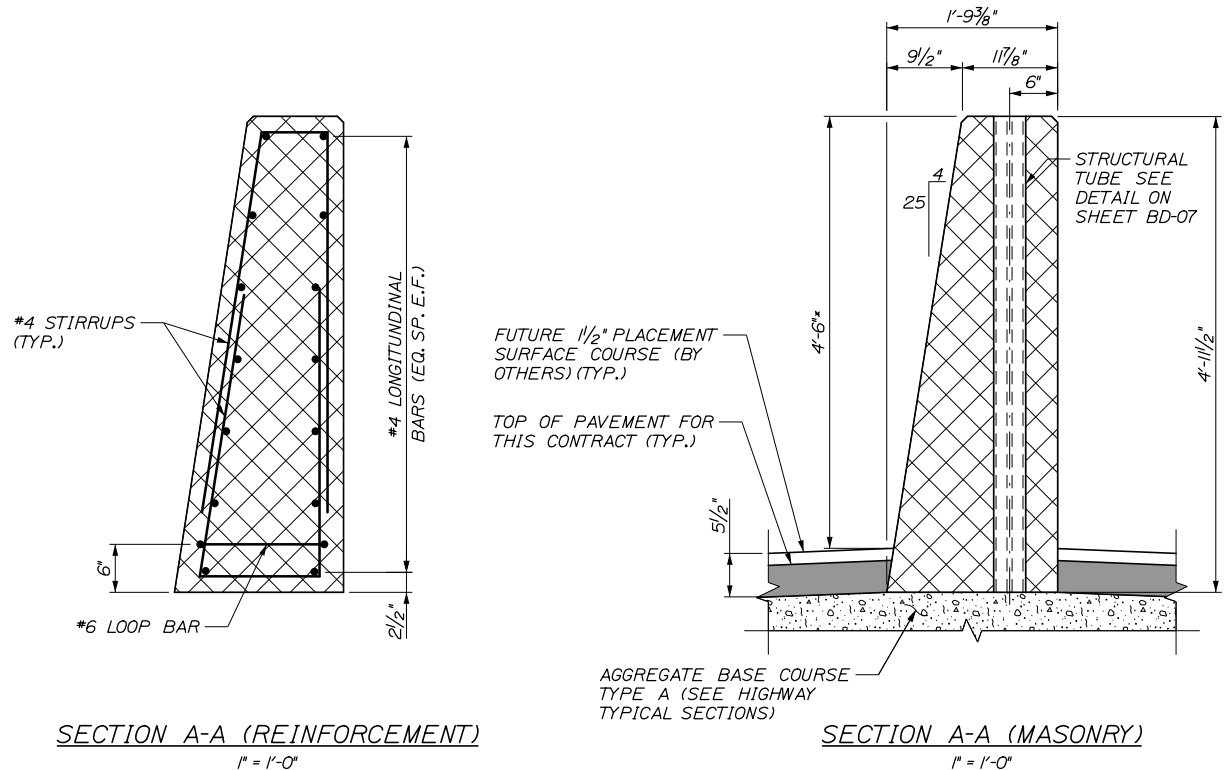
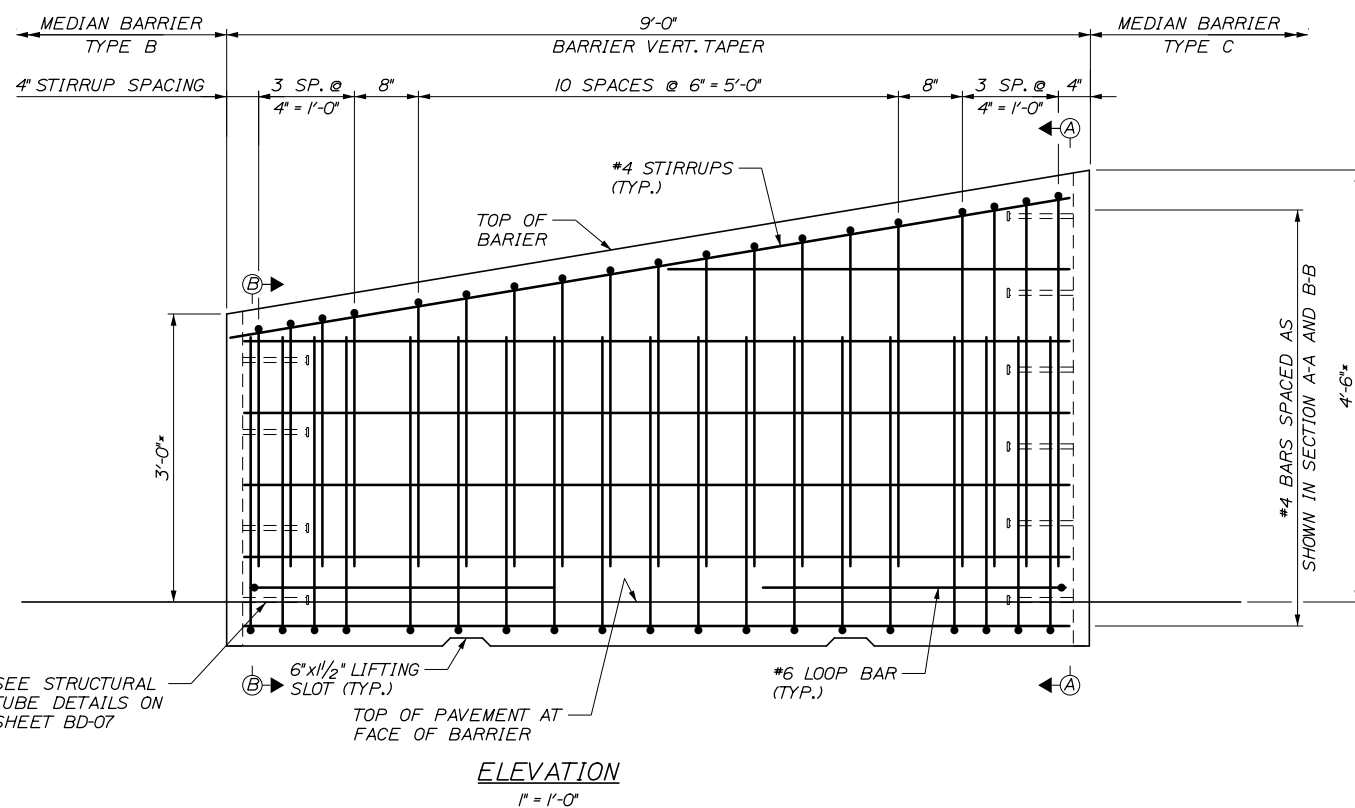
Date: 9/8/2021

Filename: PAW2-Median Barrier - Type C Transition Barrier

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	VARIABLE	
STIRRUPS	#4	14	VARIABLE	
STIRRUPS	#4	14	7'-4"	
LOOP BAR	#6	2	7'-9"	

#5 STIRRUP	#6 LOOP BAR (TOP VIEW)	#5 STIRRUP DIMENSIONS VARY

NOTE - NUMBER OF BARS PER 9 FT. SEGMENT OF STRUCTURE



* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-01.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-07.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	By	Date
Designed	JDW 09\21	Checked	BRG 09\21
Drawn	PEB 09\21	In Charge of	TRC 09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER
TYPE C TRANSITION BARRIER

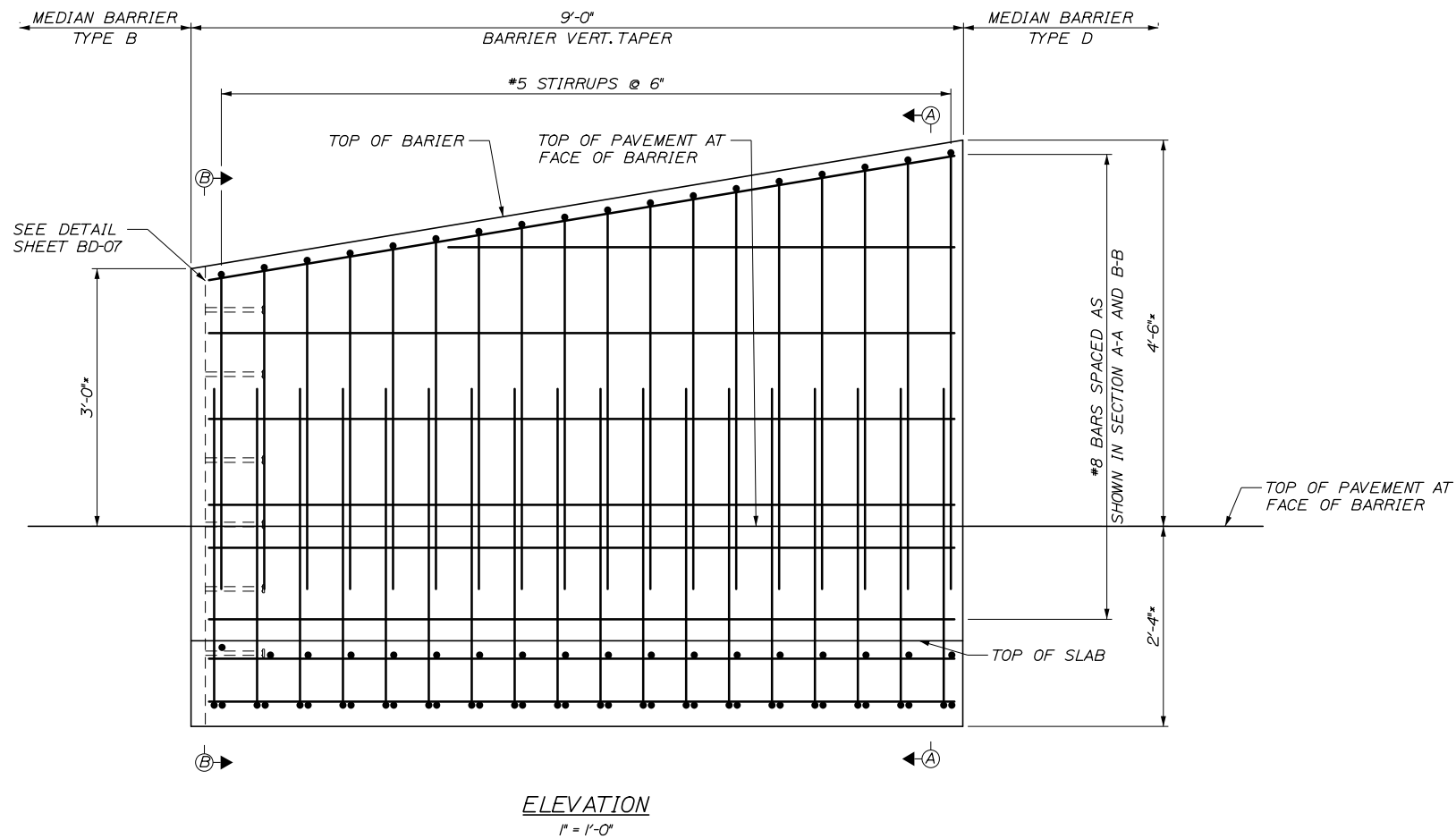
SHEET NUMBER: BD-10
363 OF 376

CONTRACT: 2021.08

Date:9/8/2021

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#8	14	VARIES	
STIRRUPS	#5	18	8'-9"	
STIRRUPS	#5	18	VARIES	
TRANSVERSE FOOTING	#5	36	6'-10"	
LONGITUDINAL FOOTING	#5	18	8'-6"	

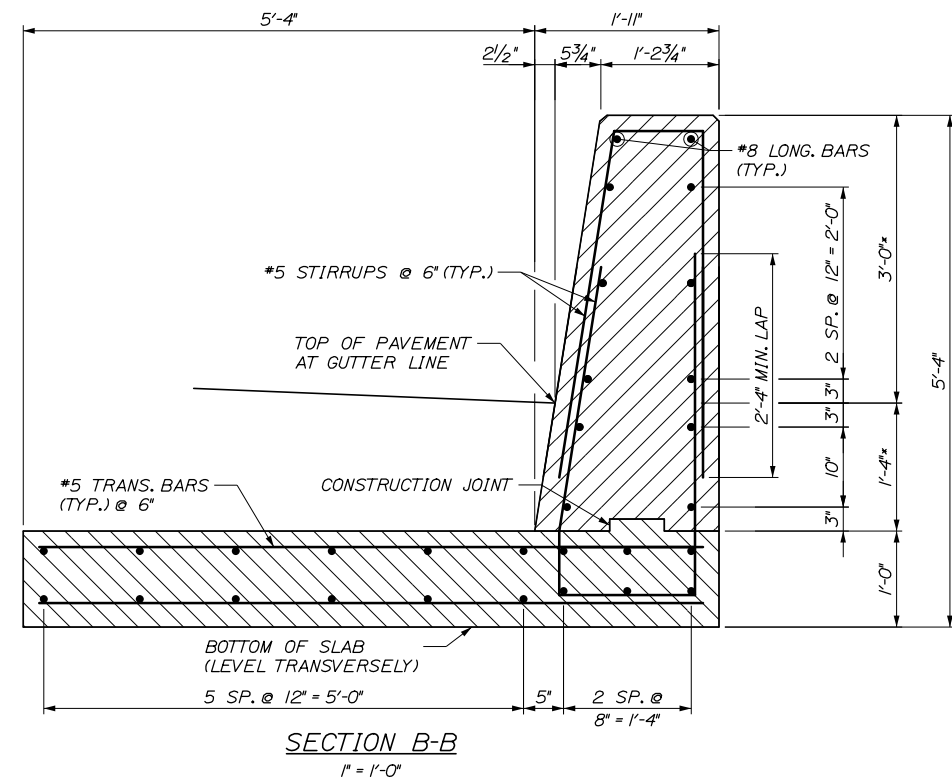
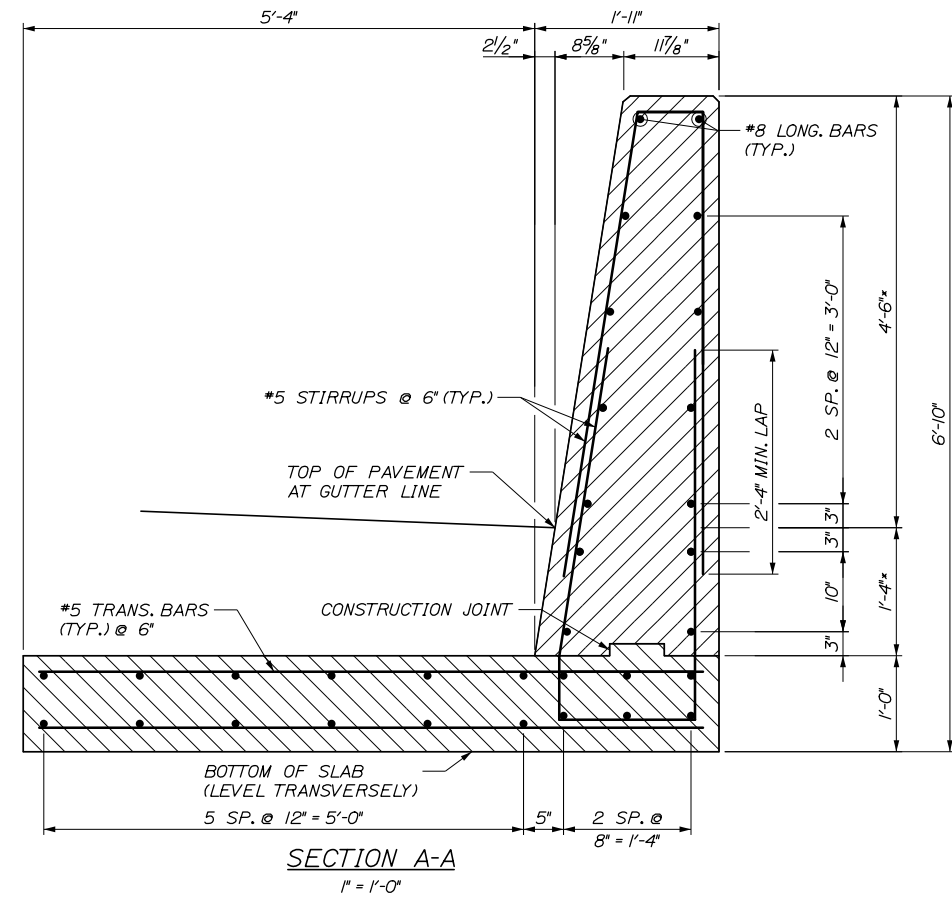
DIMENSIONS VARY
#5 STIRRUP BAR #5 STIRRUP BAR



NOTES:

- FOR BARRIER NOTES, SEE SHEET BD-01.
- FOR ADDITIONAL DETAILS, SEE SHEET BD-07.

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.



Filename: PAW2-Median Barrier - Type D Transition Barrier

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	JDW 09\21	Checked	BRG 09\21
				Drawn	PEB 09\21	In Charge of	TRC 09\21

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

MEDIAN BARRIER
TYPE D TRANSITION BARRIER

SHEET NUMBER: BD-11

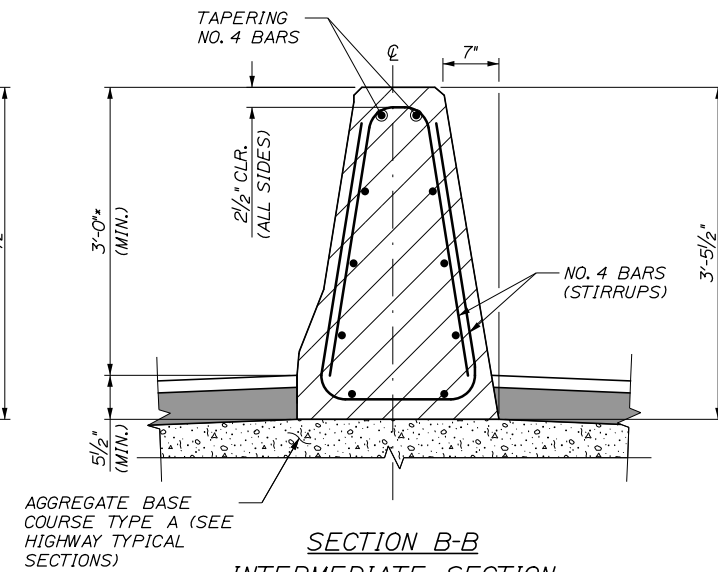
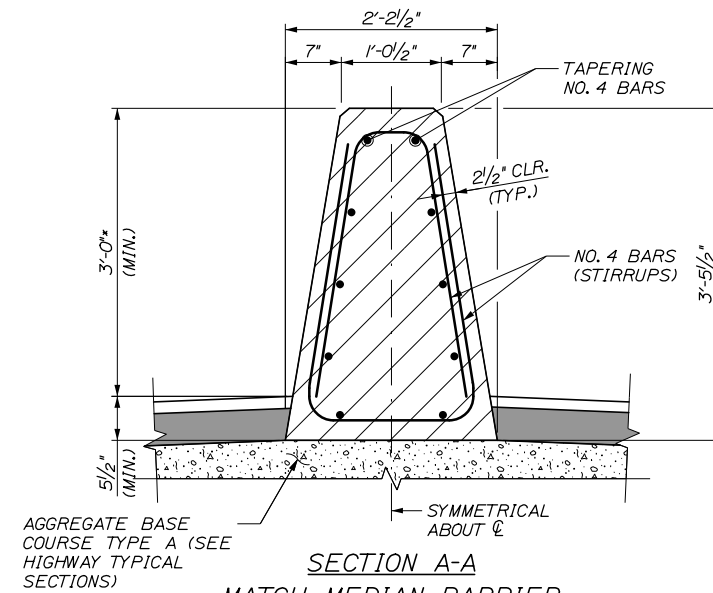
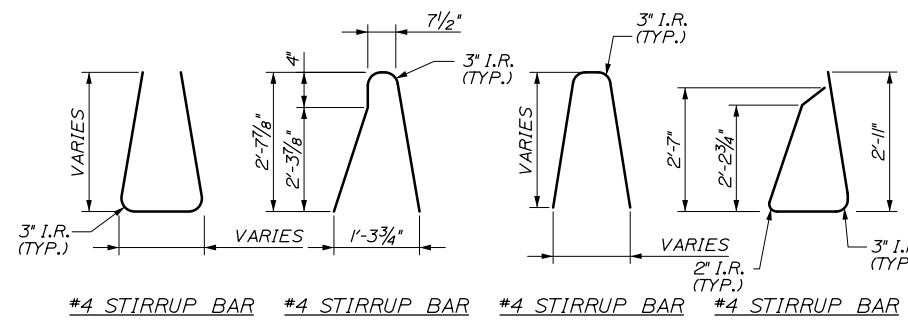
CONTRACT:2021.08

364 OF 376

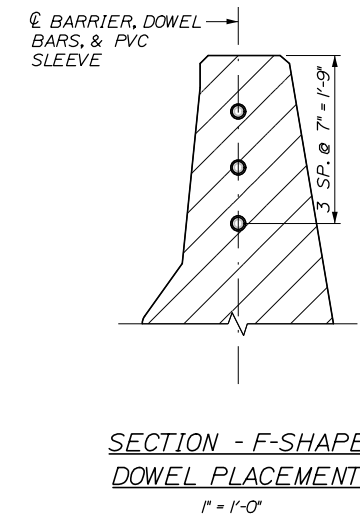
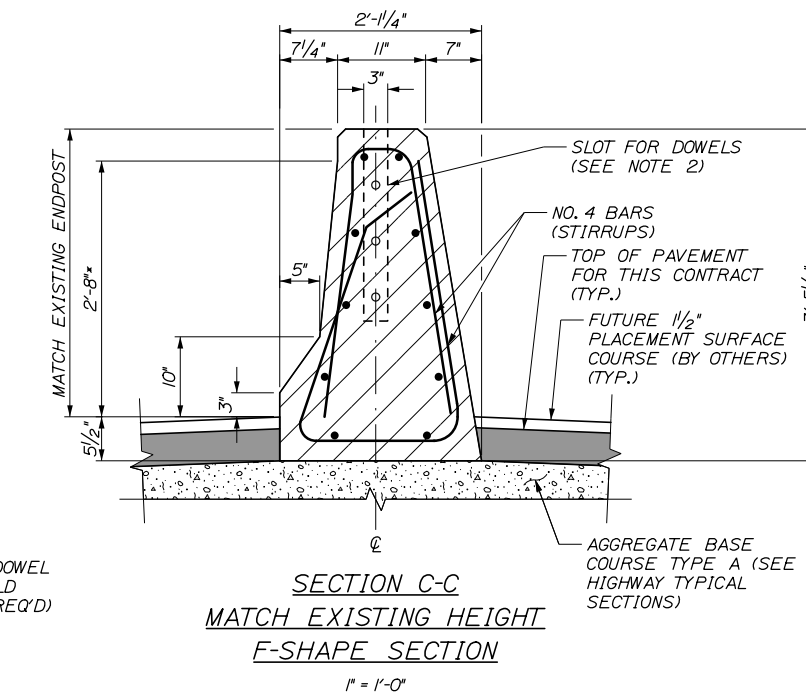
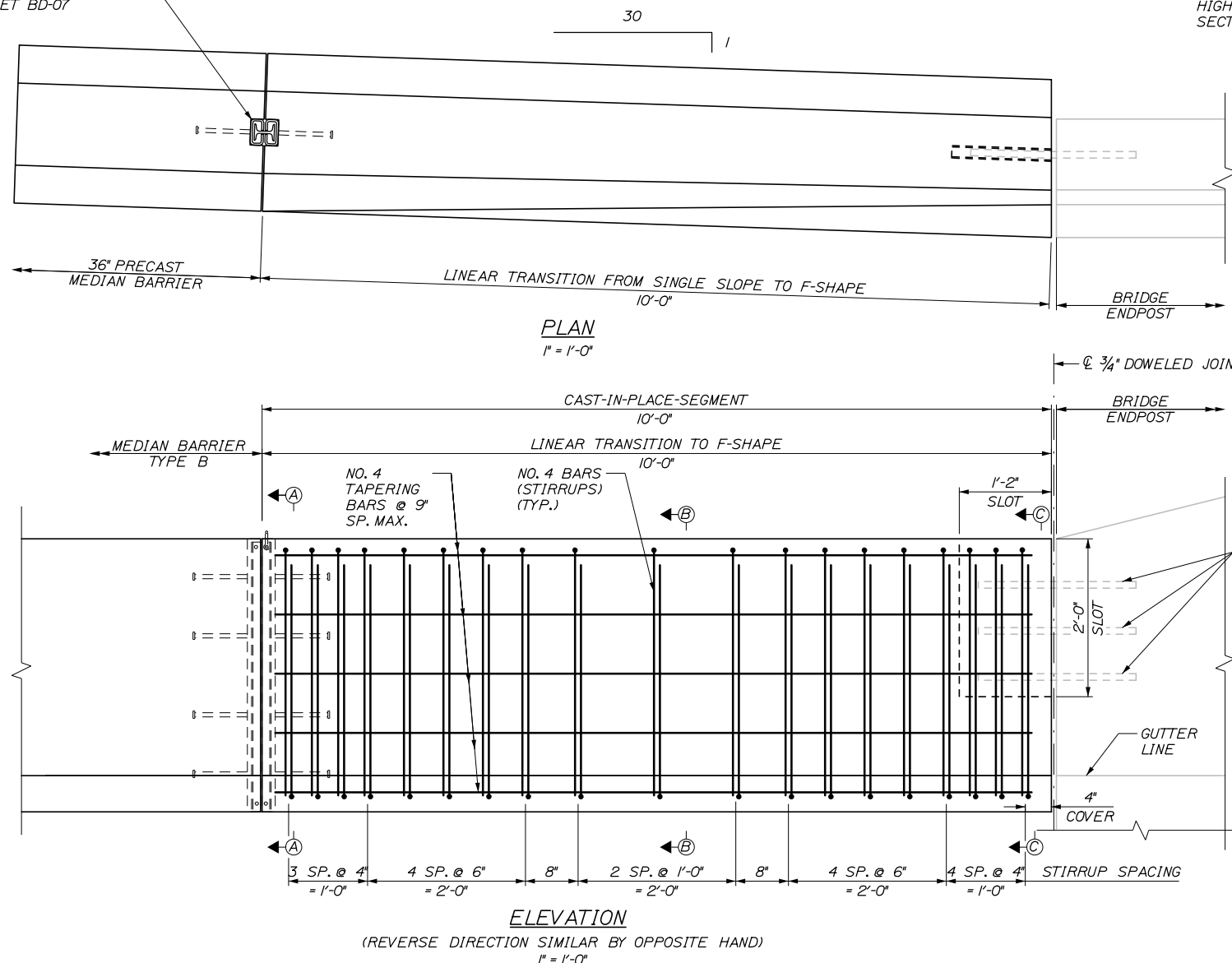
Date: 9/8/2021

Filename: PAW2_Barrier_Details_IV - Bridge_Endpost_Transition

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	10	9'-7"	
STIRRUPS	#4	16	VARIES	
STIRRUPS	#4	16	VARIES	
STIRRUPS	#4	3	7'-4 1/4"	
STIRRUPS	#4	3	6'-0 1/2"	



SEE BARRIER CONNECTION DETAIL, SHEET BD-07




* MEASURED FROM TOP OF FUTURE 1 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

- NOTES:**
- BARRIER TRANSITION TO F-SHAPED SHALL BE CAST-IN-PLACE.
 - GROUT SLOT WITH HIGH STRENGTH GROUT LISTED ON MAINEDOT QUALIFIED PRODUCTS LIST OF GROUT MATERIALS.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

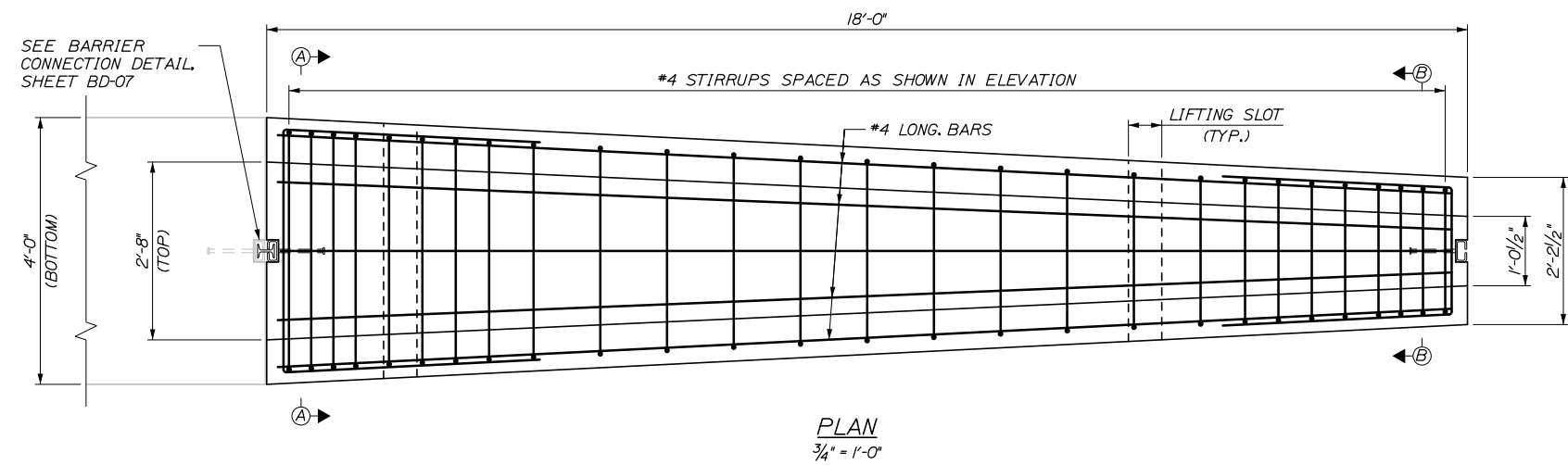
BARRIER DETAILS IV
BRIDGE ENDPOST TRANSITION

SHEET NUMBER: BD-12
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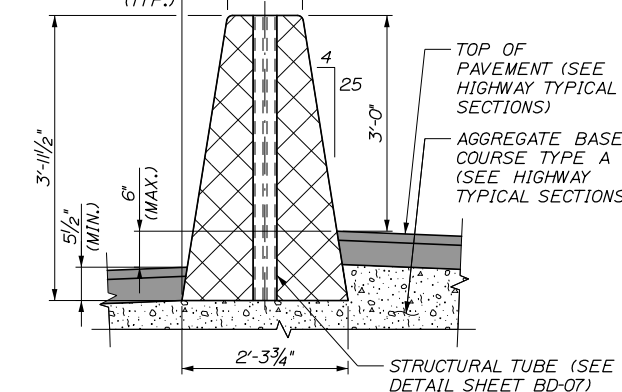
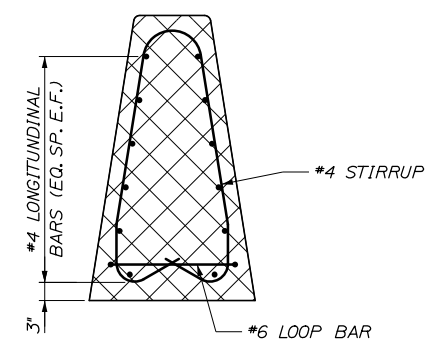
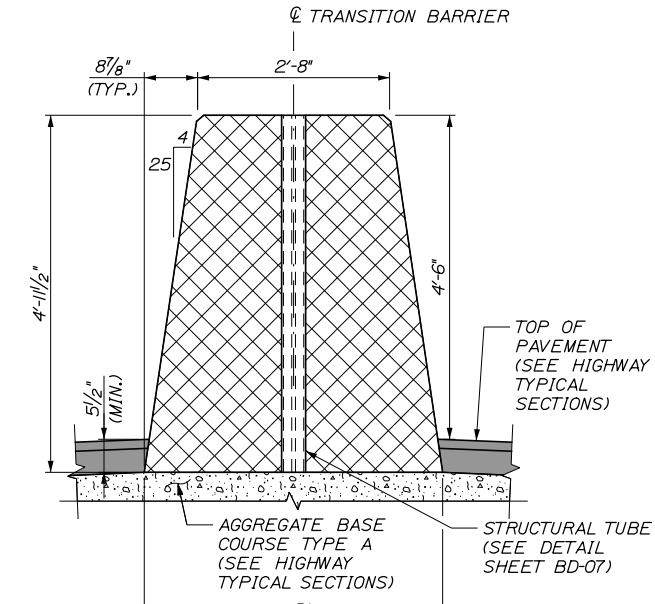
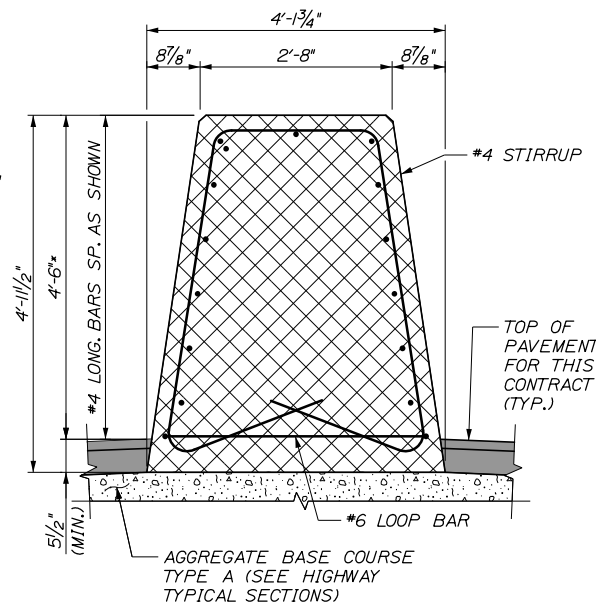
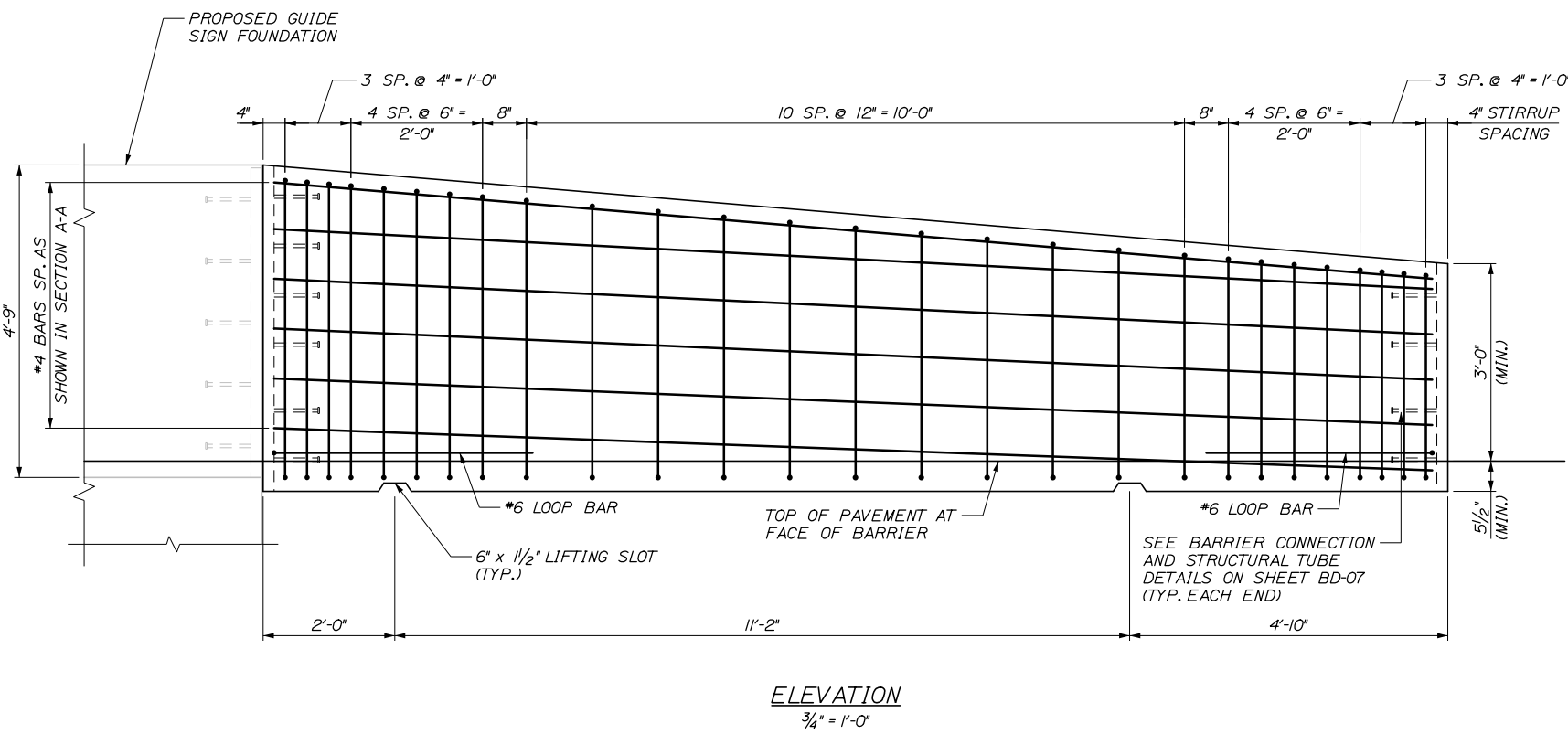
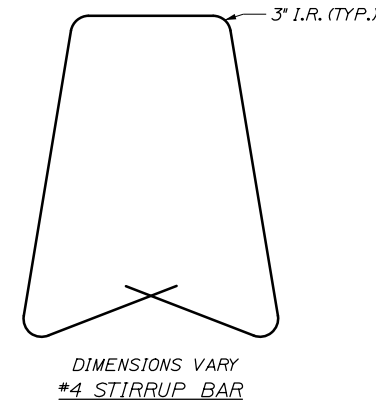
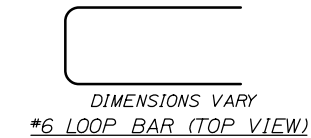
CONTRACT: 2021.08

Date: 9/8/2021

Filename: PAW2_Median Barrier - OHSS Foundation Transition Barrier



CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	13	17'-6"	
STIRRUPS	#4	27	VARIES	
LOOP BAR	#6	2	VARIES	



- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-01.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-07.

Scale:		AS NOTED	
Designed by:		HNTB	
No.	Revision	By	Date
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	By	Date	
	By	Date	

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

MEDIAN BARRIER

OHSS FOUNDATION TRANSITION BARRIER

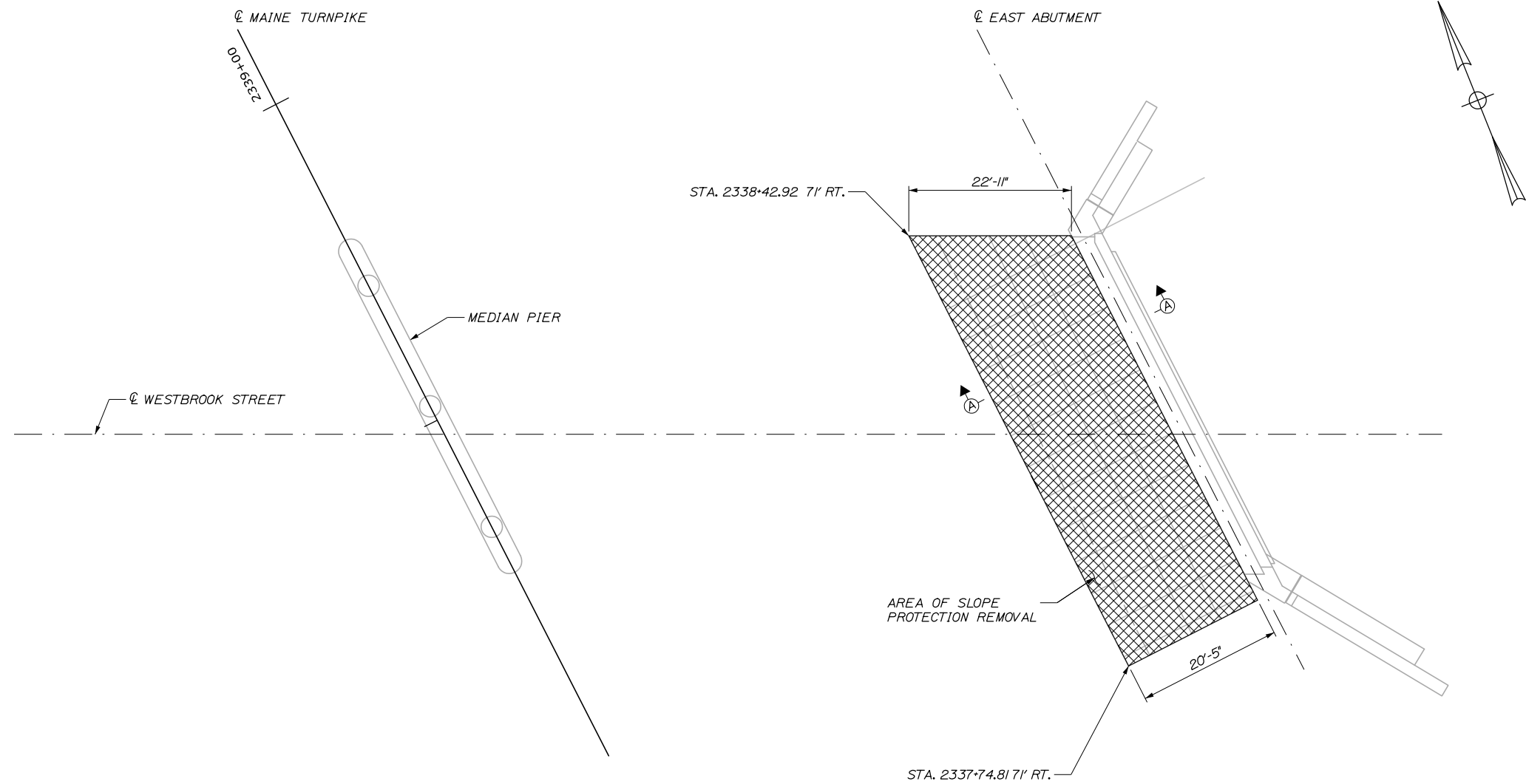
SHEET NUMBER: BD-13

CONTRACT: 2021.08

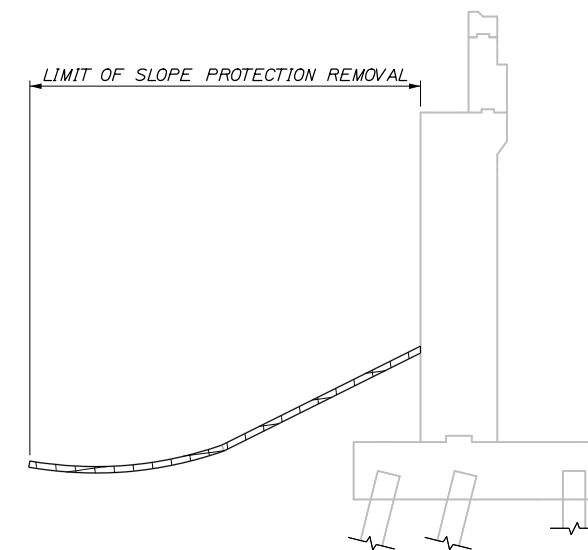
366 OF 376

Date: 9/8/2021

Filename: PAW2 - Slope Protection Modifications - Demolition - Westbrook Street



PLAN
1" = 10'-0"



NOTES:

1. REMOVAL OF EXISTING CONCRETE SLOPE PROTECTION PAVEMENT SHALL BE INCIDENTAL TO PAY ITEM 513.09.

Scale: AS NOTED

Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
SLOPE PROTECTION MODIFICATIONS
DEMOLITION - WESTBROOK STREET

SHEET NUMBER: BD-14

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	BRG	09\21	Checked	JDW	09\21
Drawn	ERB	09\21	In Charge of	TRC	09\21

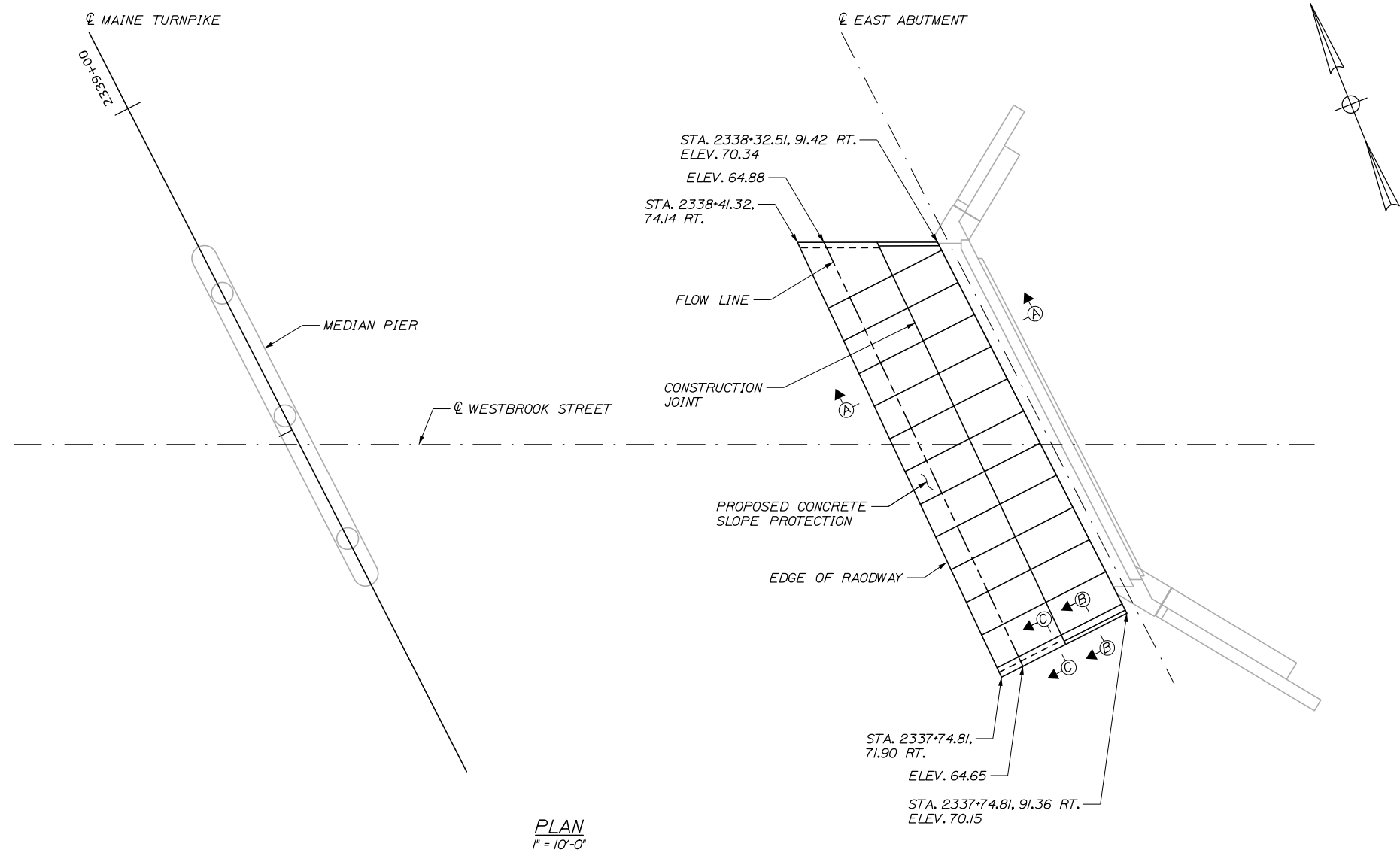
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

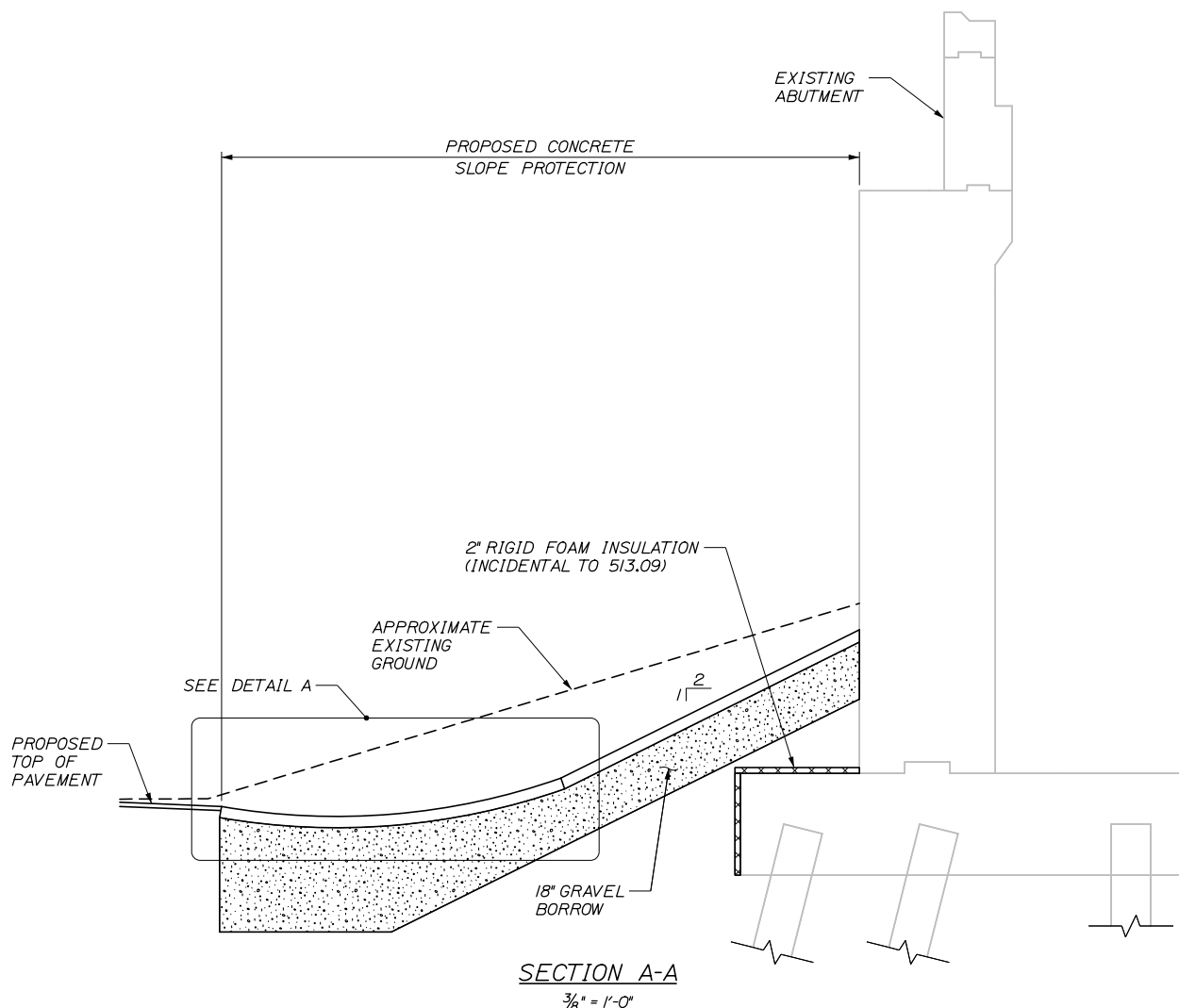
367 OF 376

SLOPE PAVEMENT NOTES:

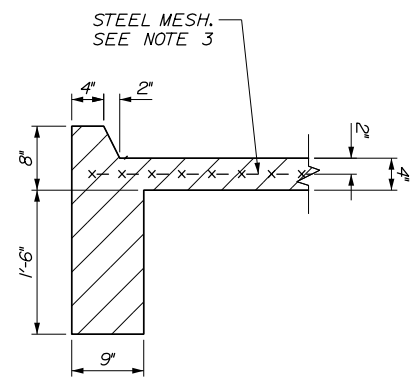
1. PROPOSED 18" GRAVEL BORROW BEDDING MATERIAL SHALL BE CONSIDERED INCIDENTAL TO ITEM 513.09 SLOPE PROTECTION - PORTLAND CEMENT CONCRETE. GRAVEL BORROW AND GRANULAR BORROW SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS. EXISTING GRAVEL MATERIALS JUDGED SUITABLE BY THE RESIDENT SHALL REMAIN IN PLACE UNLESS OTHERWISE APPROVED.
2. BREAK BOND AT CONSTRUCTION JOINTS WITH 2 LAYERS OF SMOOTH SURFACED ASPHALT ROLL ROOFING (701.08).
3. CONCRETE SLOPE PROTECTION SHALL BE REINFORCED WITH EPOXY COATED WWF 6"x6" - W2XW2, NOT TO PASS THROUGH CONSTRUCTION JOINTS.
4. DUMMY JOINTS SHALL BE MADE WITH A GROOVER TO A DEPTH OF 1/4" INCH.
5. EDGES OF CONSTRUCTION JOINTS SHALL BE FINISHED WITH A SIDEWALK EDGING TOOL TO A DEPTH OF 1/4" INCH.
6. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACE AREA OF CONCRETE SLOPE PROTECTION AND SHALL BE INCIDENTAL TO ITEM 513.09 SLOPE PROTECTION - PORTLAND CEMENT CONCRETE.
7. PIGMENTED PROTECTIVE COATING SHALL BE APPLIED TO ANY NEWLY EXPOSED ABUTMENT AND WINGWALL SURFACES RESULTING FROM THE PROPOSED SLOPE PAVEMENT MODIFICATIONS. PIGMENTED PROTECTIVE COATING SHALL BE INCIDENTAL TO PAY ITEM 513.09.



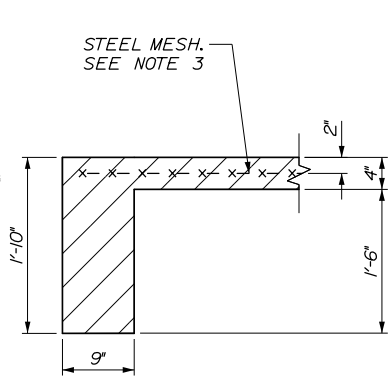
PLAN
1" = 10'-0"



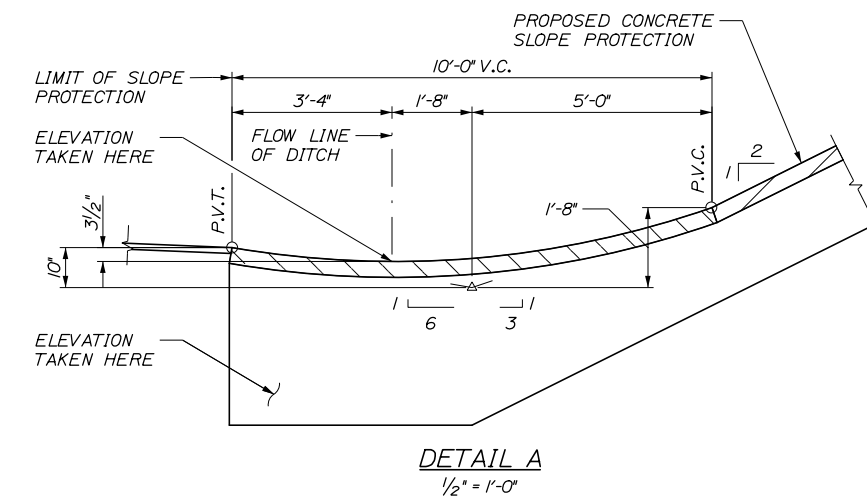
SECTION A-A
3/8" = 1'-0"



SECTION B-B
1" = 1'-0"



SECTION C-C
1" = 1'-0"



DETAIL A
1/2" = 1'-0"

Date: 9/8/2021

Filename: PAW2 - Slope Protection Modifications - Proposed Layout - Westbrook Street

Scale:				Designed by:			
AS NOTED				HNTB			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	BRG 09\21	Checked	JDW 09\21
				Drawn	ERB 09\21	In Charge of	TRC 09\21

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	By	Date
Designed	BRG 09\21	Checked	JDW 09\21
Drawn	ERB 09\21	In Charge of	TRC 09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

SLOPE PROTECTION MODIFICATIONS
PROPOSED LAYOUT - WESTBROOK STREET

SHEET NUMBER: BD-15
CONTRACT: 2021.08
368 OF 376

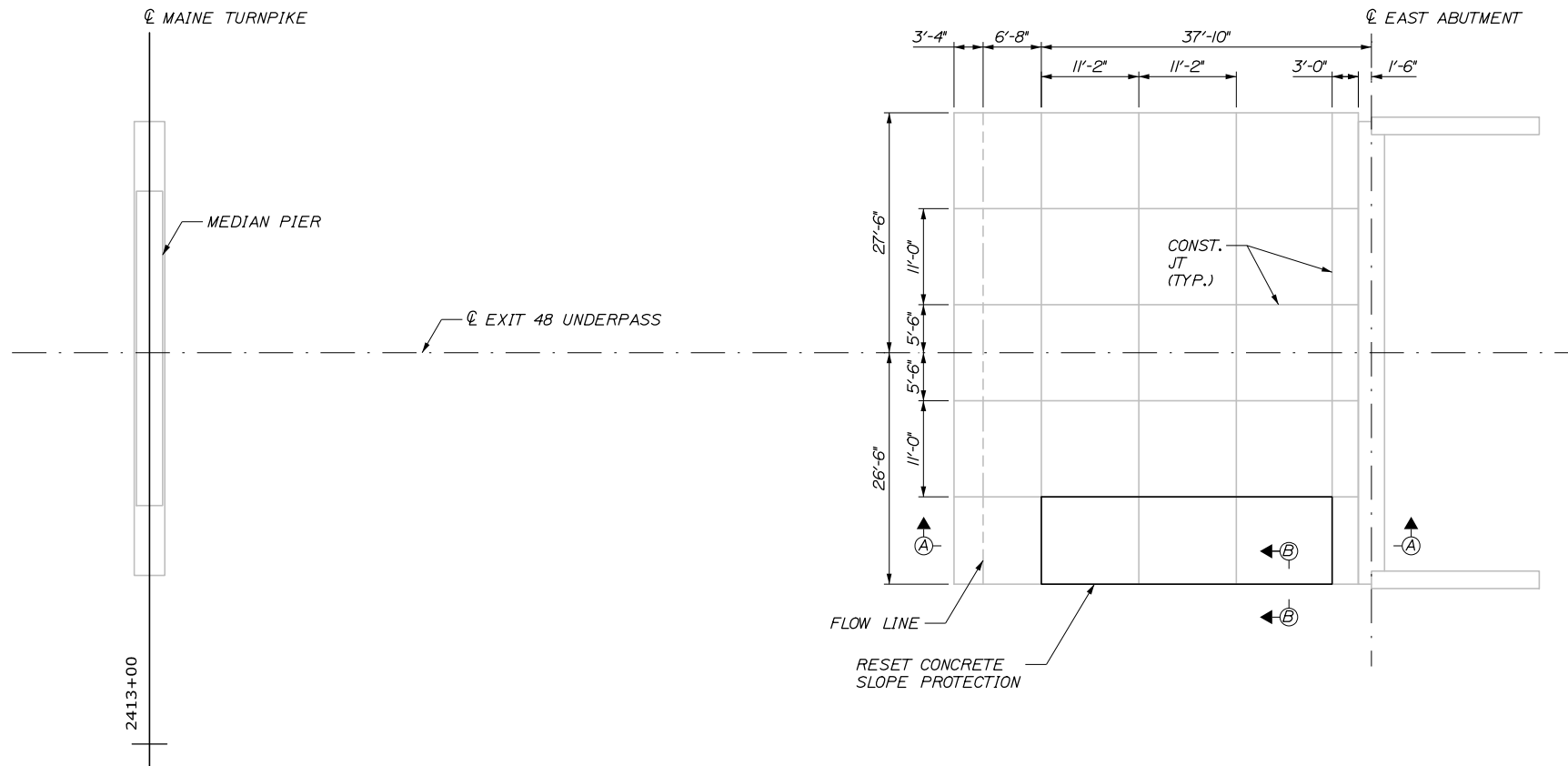
Date: 9/8/2021

Filename: PAW2_Slope Protection Modifications - Proposed Layout - Exit 48

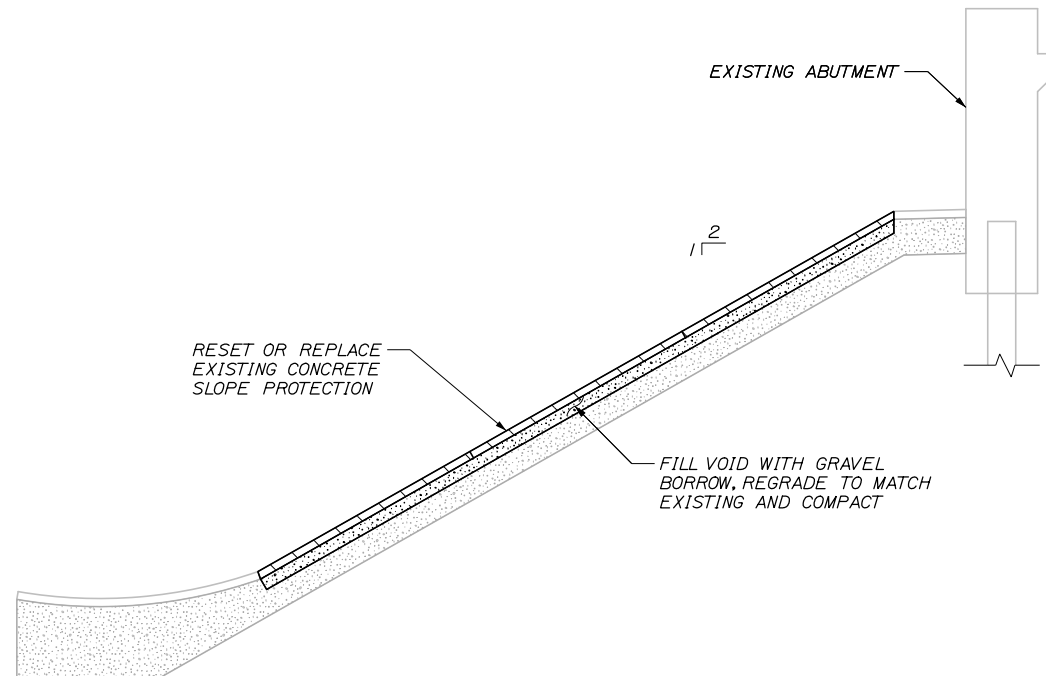
NOTES:

1. CONCRETE SLOPE PROTECTION SHALL BE RESET OR REPLACED SUCH THAT IT MATCHES INTO ALL ADJACENT SLOPE PROTECTION AND SHELF JOINTS. IF REPLACED, FOLLOW DETAILS ON BD-16. PAYMENT SHALL BE MADE UNDER 513.09 SLOPE PROTECTION - PORTLAND CEMENT CONCRETE.

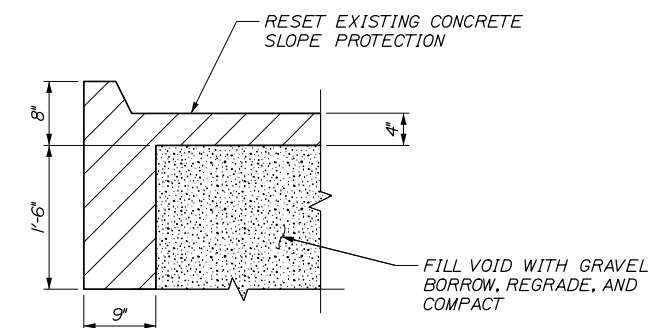
2. CONSTRUCTION JOINTS AROUND THE PERIMETER OF RESET SECTIONS OF SLOPE PROTECTION SHALL BE SEALED WITH A POLYURETHANE SEALANT SUCH AS SIKAFLEX 1A OR APPROVED EQUAL.



PLAN
1" = 10'-0"



SECTION A-A
1/4" = 1'-0"



SECTION B-B
1" = 1'-0"

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	BRG	09\21	Checked	JDW	09\21
Drawn	ERB	09\21	In Charge of	TRC	09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

SLOPE PROTECTION MODIFICATIONS
REPAIR DETAILS - EXIT 48

SHEET NUMBER: BD-16
CONTRACT: 2021.08
369 OF 376

Date: 9/8/2021

Filename: PAW2_SS-01_VMS - General Notes.dgn

SIGN STRUCTURE GENERAL NOTES:

1. ALL EXCAVATION, MULCH, LOAM, AND SEED IS INCIDENTAL TO RELATED SIGN STRUCTURE PAY ITEMS.
2. CONTRACTOR SHALL VERIFY ALL SITE INFORMATION PRIOR TO COMMENCING ANY WORK. COORDINATE WORK WITH RESIDENT.
3. ANY DAMAGE TO THE EXISTING ROADS, SLOPES OR PIPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE.
4. ALL UTILITY SPLICES WILL BE MADE IN THE CABINETS OR JUNCTION BOXES.
5. SEE HIGHWAY PLANS AND SPECIAL PROVISIONS FOR POWER LINE INSTALLATION REQUIREMENTS.
6. JUNCTION BOXES SHALL BE INSTALLED PER THE PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE RESIDENT ENGINEER.
7. REMOVAL, TRANSPORT, AND INSTALLATION OF THE VMS SIGN AND SUPPORT TRUSS IN THE NEW LOCATION SHALL BE PAID UNDER ITEM 645.124 REMOVAL, DISASSEMBLY AND RELOCATION OF VMS AND SUPPORTING STRUCTURE. FABRICATION AND INSTALLATION OF THE PROPOSED VERTICAL SUPPORTS SHALL BE PAID FOR UNDER ITEM 645.124 REMOVAL, DISASSEMBLY AND RELOCATION OF VMS AND SUPPORTING STRUCTURE.

SIGN STRUCTURE STRUCTURAL GENERAL NOTES:

SPECIFICATIONS

DESIGN

- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th EDITION
- AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1st EDITION (2015)
- AISC MANUAL OF STEEL CONSTRUCTION, LRFD METHOD, 14th EDITION
- ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 3rd PRINTING (2013)

CONSTRUCTION

- STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, NOVEMBER 2014 EDITION
- STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, DECEMBER 2014 EDITION WITH UPDATES
- MTA SUPPLEMENTAL SPECIFICATIONS, 2016 EDITION

DESIGN LOADING

WIND

BASIC WIND SPEED (V) = 110 MPH

ICE

NOMINAL ICE THICKNESS (t) = 1.0 INCH

MATERIALS

CONCRETE

ALL STRUCTURAL CONCRETE - CLASS AAA

REINFORCING STEEL

AASHTO M31, GRADE 60, EPOXY COATED
AASHTO M31, GRADE 75, EPOXY COATED

ANCHOR RODS

ANCHOR RODS SHALL MEET THE REQUIREMENTS OF ASTM F1554 GRADE 55.

STRUCTURAL STEEL

STRUCTURAL STEEL TUBING (ROUND HSS) SHALL CONFORM TO ASTM A500, GRADE C

STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992

STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B

ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A709, GRADE 50

SUPPORT STRUCTURE COMPONENTS SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH AASHTO M111

U-BOLTS FOR STEEL SUPPORT STRUCTURES SHALL CONFORM TO ASTM A449

ALL BOLTS SHALL CONFORM TO ASTM A325, TYPE 1

ALL HARDWARE SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH AASHTO M232 PER MAINEDOT STD. SPECS 719.072

BASIC DESIGN STRESSES

CONCRETE

CLASS AAA - $f'_c = 4,500$ PSI

REINFORCING STEEL

$f_y = 60,000$ PSI

$f_y = 75,000$ PSI

ANCHOR RODS

ASTM F1554, GRADE 55 - $f_y = 55,000$ PSI

STRUCTURAL STEEL

ASTM A500, GRADE C - $f_y = 46,000$ PSI

ASTM A992 - $f_y = 50,000$ PSI

ASTM A53, GRADE B - $f_y = 35,000$ PSI

ASTM A709, GRADE 50 - $f_y = 50,000$ PSI

ASTM A325, TYPE 1 - $f_t = 120,000$ PSI

UTILITY NOTES:

1. SEE UTILITY NOTES ON SHEET GN-01.
2. THE CONTRACTOR SHALL COORDINATE WITH MTA, THROUGH THE RESIDENT, FOR ELECTRICAL SERVICE AND COMMUNICATIONS FOR VMS.
3. ALL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.

SIGN STRUCTURE CONSTRUCTION NOTES:

1. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, NOVEMBER 2014 EDITION.
2. ALL REINFORCING STEEL SHALL HAVE 2" COVER UNLESS NOTED OTHERWISE.
3. CHAMFER ALL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS NOTED OTHERWISE.
4. ALL EXPOSED CONCRETE SURFACES, INCLUDING ENDS OF BARRIER SEGMENTS THAT BUTT TOGETHER WITH ADJACENT BARRIER SEGMENTS, SHALL RECEIVE A CLEAR PROTECTIVE COATING IN ACCORDANCE WITH SPECIAL PROVISION 515. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO ITEMS 626.34.
5. ALL AREAS OF STRUCTURAL EXCAVATION SHALL BE BACKFILLED WITH GRANULAR BORROW CONFORMING TO MAINEDOT STANDARD SPECIFICATION 703.19 FOR UNDERWATER BACKFILL. PAYMENT FOR STRUCTURAL EXCAVATION AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO ITEMS 626.34.

Scale:

Designed by:



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South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
VARIABLE MESSAGE SIGN
GENERAL NOTES

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	BRG	09\21	Checked	JDW	09\21
Drawn	ECW	09\21	In Charge of	TRC	09\21

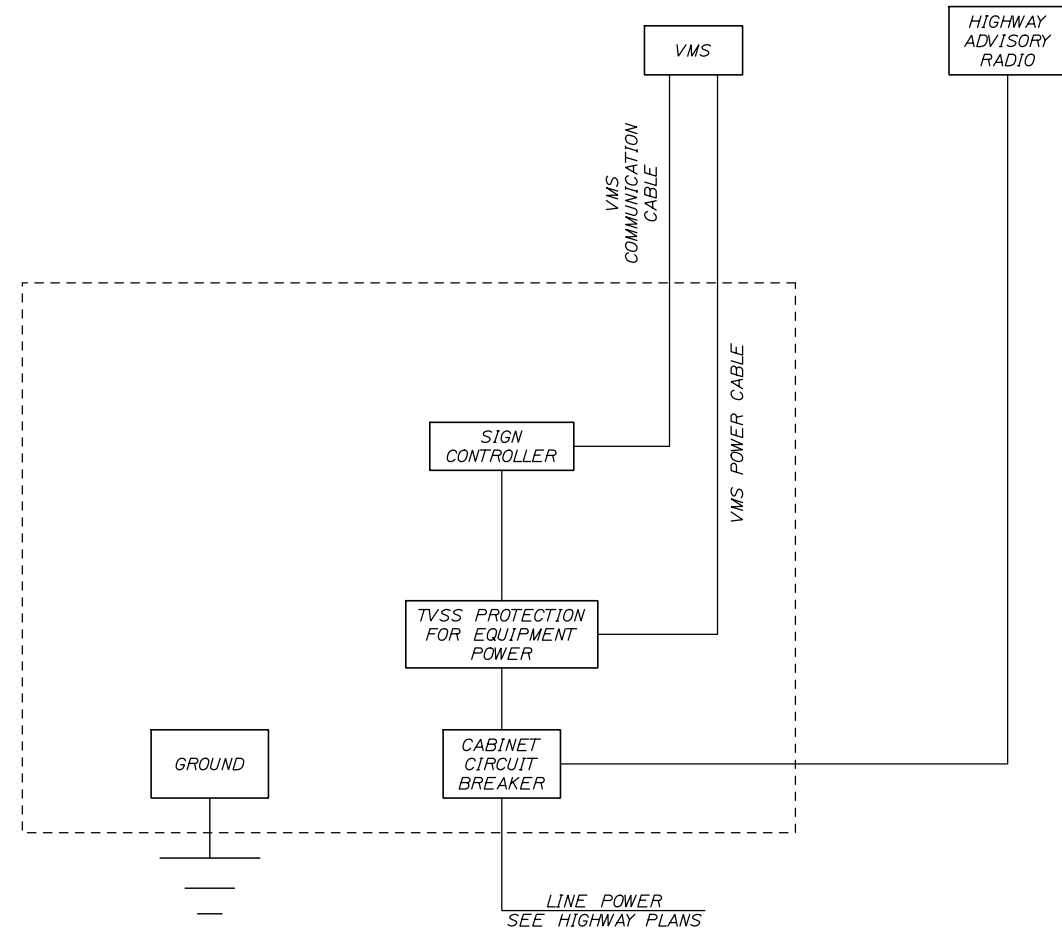
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: SS-01

370 OF 376

Date: 9/8/2021



VMS CABINET - STA 2383+00
NOT TO SCALE

Filename: PAW2_SS-02_VMS_Wiring_Diagram

Scale: NO SCALE

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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
VARIABLE MESSAGE SIGNS
WIRING DIAGRAM

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	BRG	09\21	Checked	RBM	09\21
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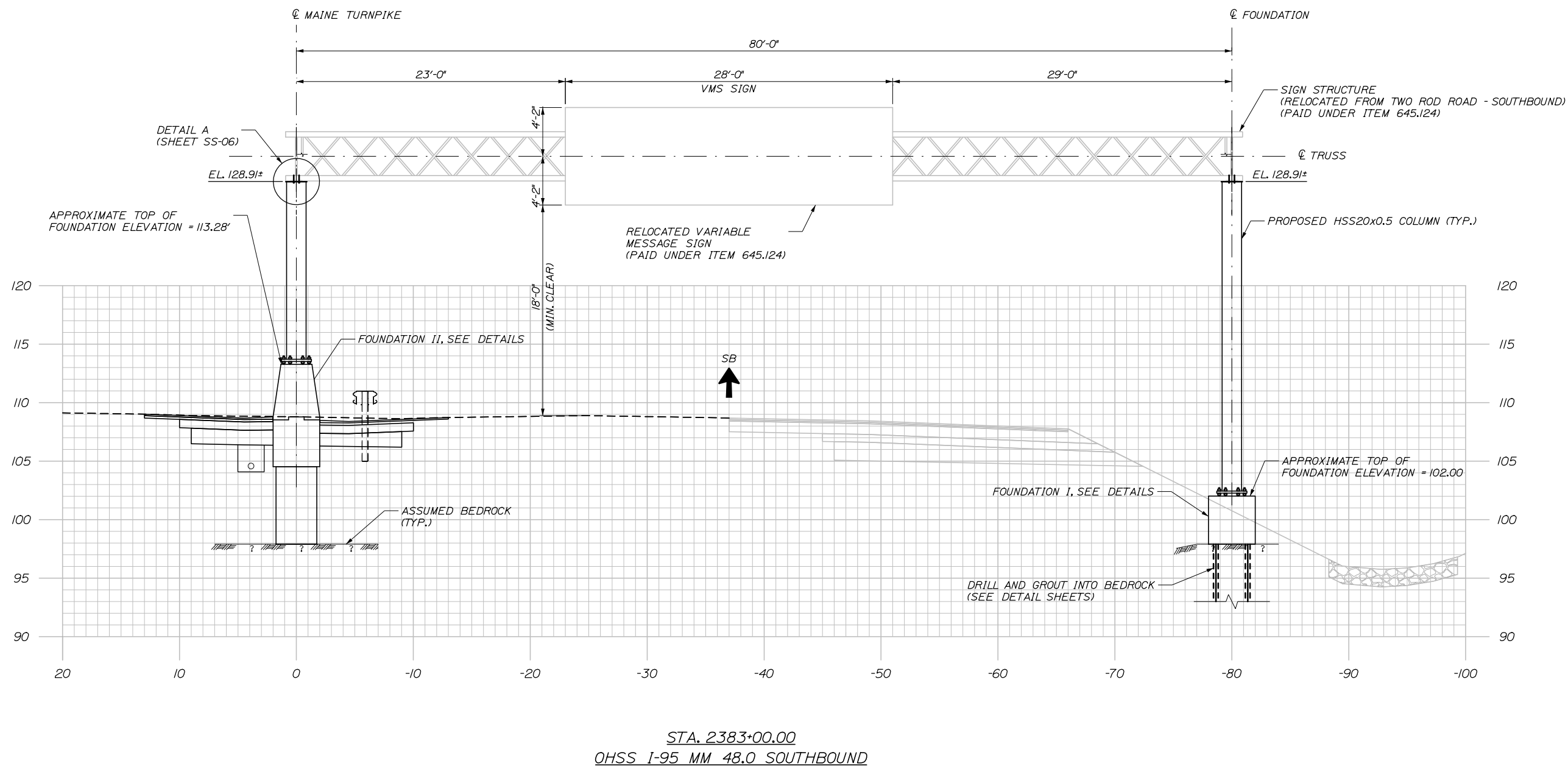
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2021.08

SHEET NUMBER: SS-02

371 OF 376

Date: 9/8/2021



STA. 2383+00.00
OHSS I-95 MM 48.0 SOUTHBOUND

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE EXISTING ROADWAY, MEDIAN AND FOUNDATION LOCATIONS TO VERIFY ELEVATIONS BEFORE DEVELOPING STRUCTURAL SHOP DRAWINGS FOR FABRICATION AND CONSTRUCTION OF THE FOUNDATION. IF THE ACTUAL GROUND ELEVATIONS DIFFER MORE THAN 1'-0" FROM THE ELEVATIONS SHOWN IN THESE PLANS, THE ENGINEER SHALL BE CONTACTED TO VERIFY THE ADEQUACY OF THE FOOTING DESIGN.

2. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION ON THE MEDIAN PAVING TYPICAL SECTION.

Filename: PAW2_SS-03_VMS Special Sign Details.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
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	Drawn	ERB 09\21		In Charge of	TRC 09\21

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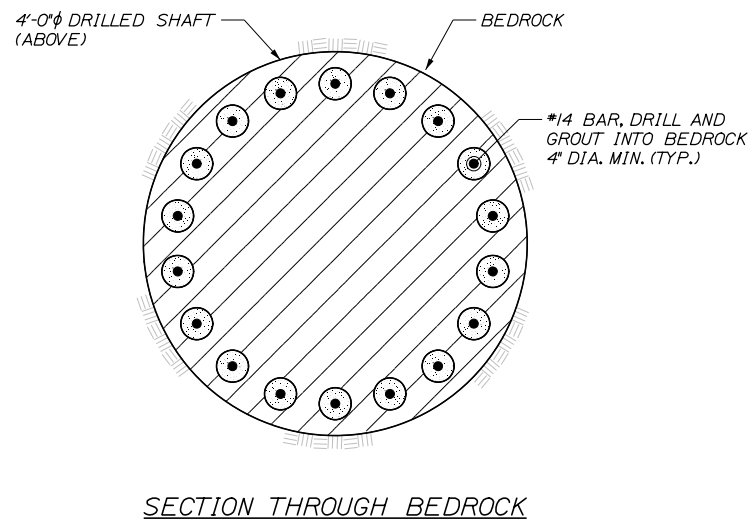
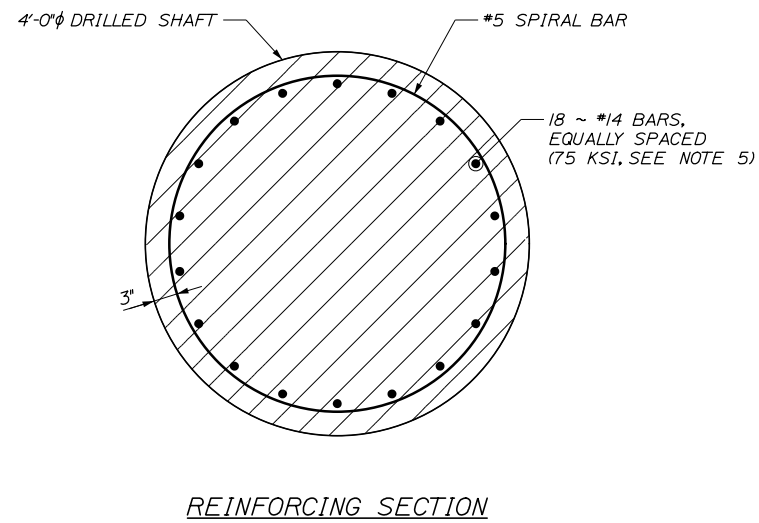
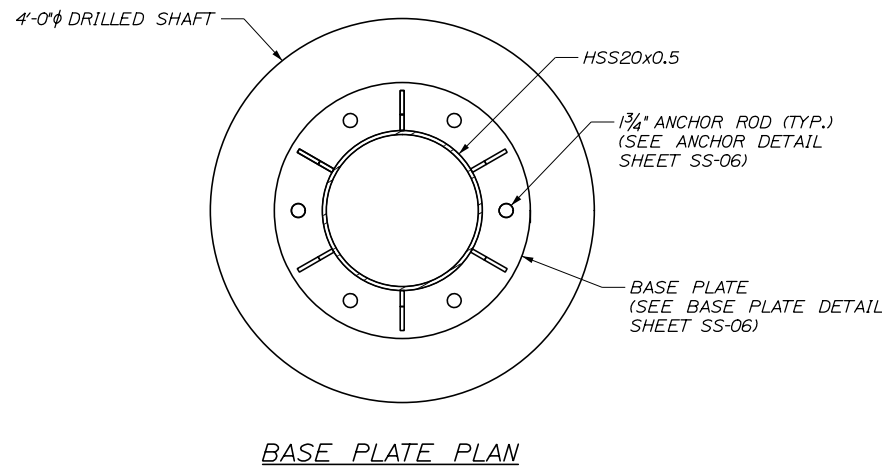
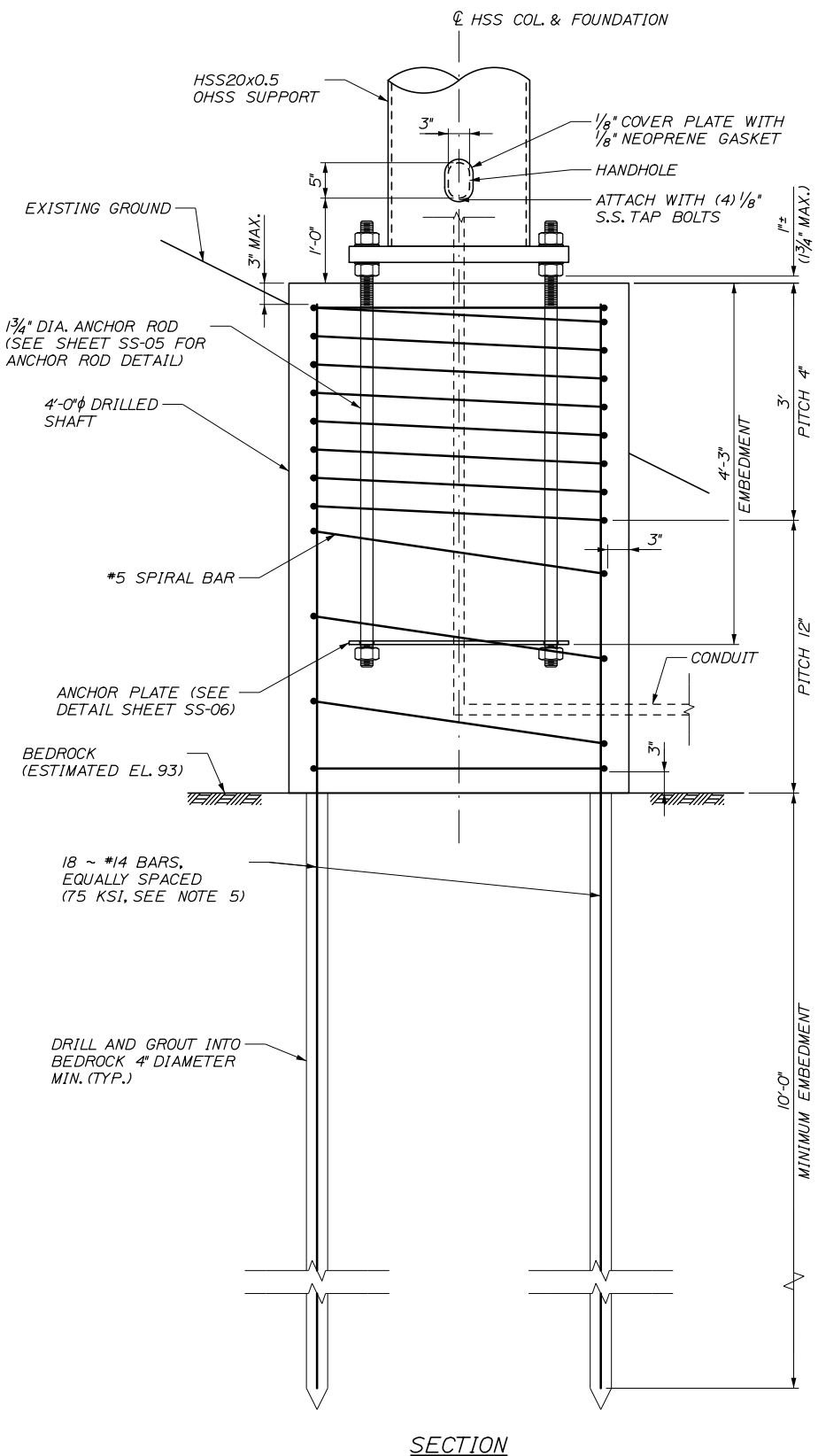
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
OVERHEAD SIGN STRUCTURE
STA. 2383+00.00 SOUTHBOUND

SHEET NUMBER: SS-03
CONTRACT: 2021.08
372 OF 376

Date: 9/8/2021

Filename: PAW2_SS-04_Overhead_Sign_Structure_Foundation I



FOUNDATION NOTES

1. ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 626.
2. OVERHEAD SIGN STRUCTURE FOUNDATIONS, COMPLETE AND IN PLACE, ACCORDING TO THESE PLANS, SHALL BE PAID UNDER 626.34 ITEM.
3. ALL CONCRETE FOR THE FOOTING, PEDESTAL, AND BARRIER SHALL BE CLASS AAA CONCRETE AND SHALL CONFORM TO MTA SUPPLEMENTAL SPECIFICATION 502. ALL PORTIONS OF THE FOUNDATION ABOVE FINISH GRADE SHALL BE LIGHT COLORED AND HAVE A SMOOTH UNIFORM SURFACE FREE OF DEFECTS AND IRREGULARITIES. MINIMUM COMPRESSIVE STRENGTH OF GROUT FOR ROCK ANCHORS 5 KSI.
4. A CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO SPECIAL PROVISION 515, SHALL BE APPLIED ON ALL CONCRETE SURFACES ABOVE FINISHED GRADE TO 1 FOOT BELOW FINISHED GRADE. COATING SHALL BE INCIDENTAL TO ITEM 626.34.
5. ALL REINFORCING STEEL SHALL BE AASHTO M31 (ASTM A615) GRADE 60, EPOXY COATED, UNLESS OTHERWISE NOTED, AND SHALL CONFORM TO MAINEDOT STANDARD SPECIFICATION 503. REINFORCING STEEL SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL. REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 626.34. #14 VERTICAL REINFORCING BARS IN THE DRILLED SHAFT SHALL BE ASTM A615, GRADE 75, EPOXY COATED.
6. DESIGN OF COFFERDAMS OR SUPPORT OF EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED FOR APPROVAL. ALL COSTS SHALL BE INCIDENTAL TO ITEM 626.34.
7. THE GAP BETWEEN THE BASE PLATE AND TOP OF FOUNDATION SHALL BE WRAPPED IN AWG #16 STAINLESS STEEL WIRE CLOTH, WITH A 1/4" MAXIMUM OPENING AND A 2" LAP. SECURE WITH 3/4" STAINLESS STEEL BANDING AFTER ANCHOR RODS ARE INSTALLED. ALL COSTS SHALL BE INCIDENTAL TO ITEM 626.34.
8. CONTRACTOR TO PROVIDE CONDUIT IN DRILLED SHAFT AS REQUIRED TO INSTALL VMS. THIS WORK SHALL BE INCIDENTAL TO ITEM 626.34.

Scale:				
No.	Revision	By	Date	

Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.				
	By	Date	By	Date
	Designed	BRG 09\21	Checked	JDW 09\21
	Drawn	ERB 09\21	In Charge of	TRC 09\21

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**THE GOLD STAR
MEMORIAL HIGHWAY**

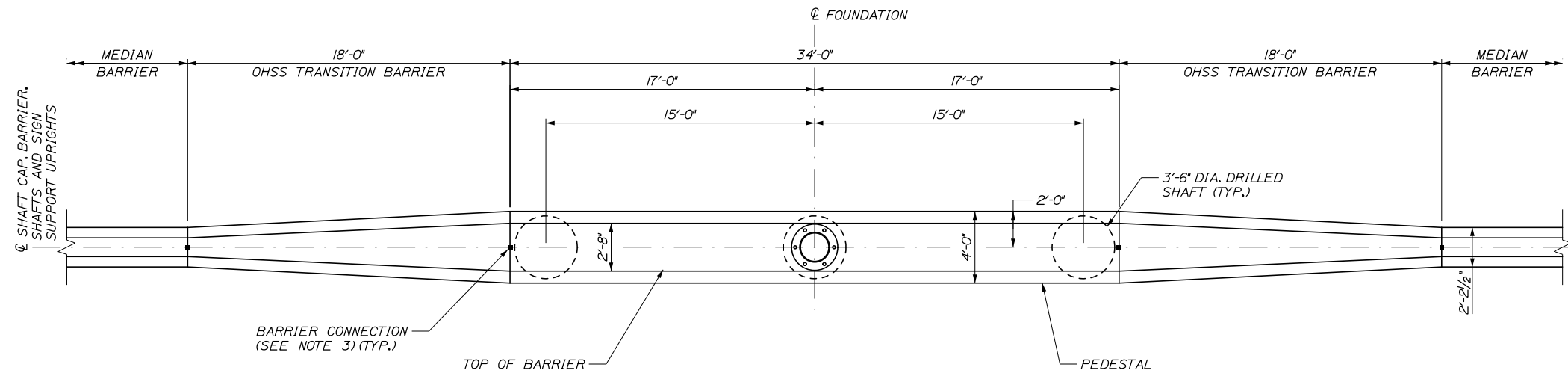
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
OVERHEAD SIGN STRUCTURE
FOUNDATION I

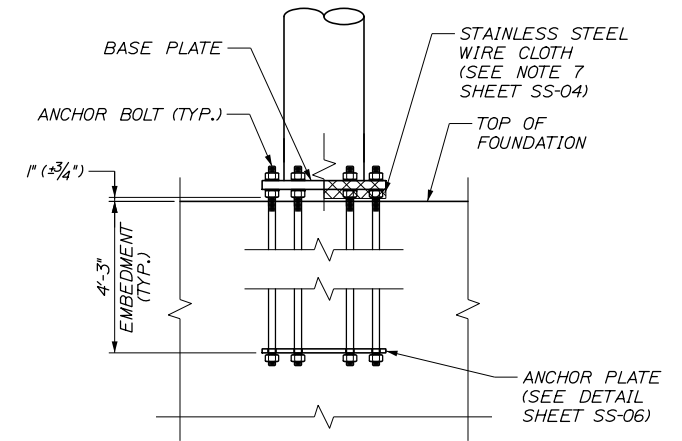
SHEET NUMBER: SS-04
CONTRACT: 2021.08
373 OF 376

Date: 9/8/2021

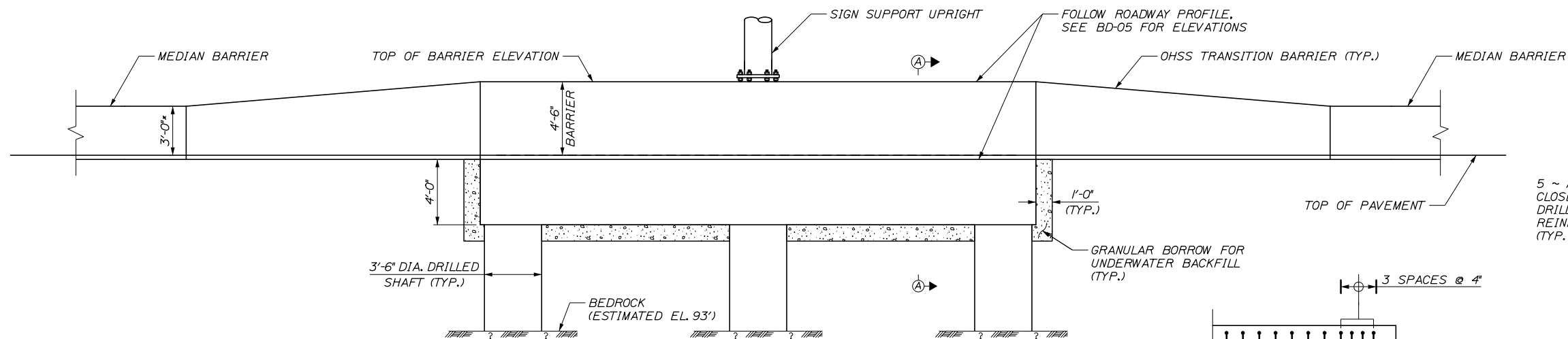
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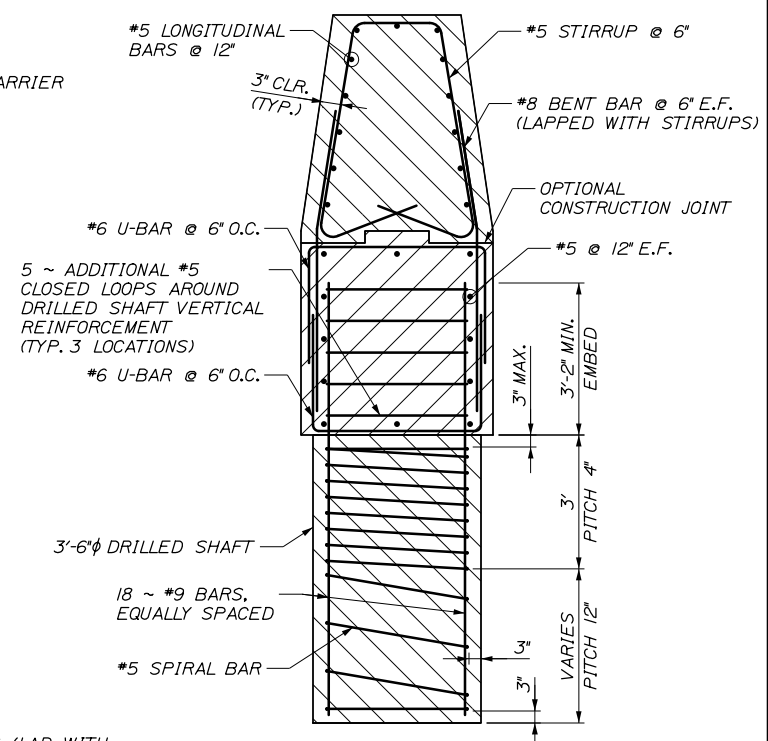
LEFT SIDE (MEDIAN) FOUNDATION - MASONRY PLAN
SCALE: 1/4" = 1'-0"



ANCHOR ROD DETAIL
SCALE: 1/2" = 1'-0"



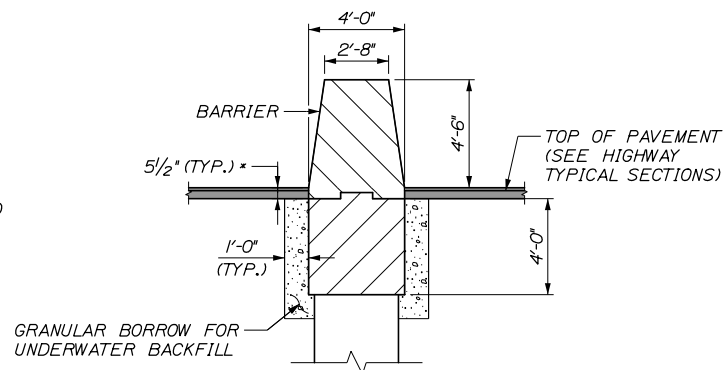
LEFT SIDE (MEDIAN) FOUNDATION - MASONRY ELEVATION
SCALE: 1/4" = 1'-0"



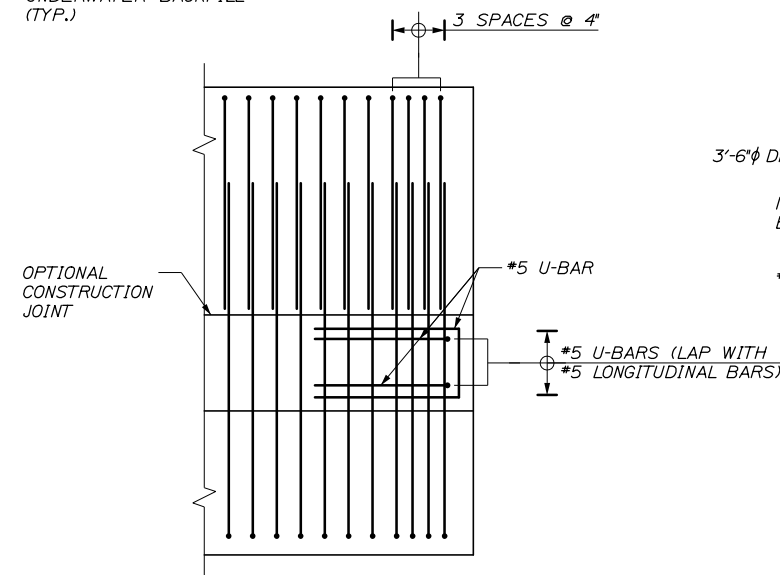
REINFORCING SECTION
SCALE: 1/2" = 1'-0"

FOUNDATION NOTES

1. SEE SHEET SS-01 FOR TYPICAL FOUNDATION NOTES AND ASSUMED OVERHEAD SIGN STRUCTURE DESIGN CRITERIA.
2. SEE BARRIER DETAIL SHEETS BD-05 AND BD-14 FOR TRANSITION BARRIER DETAILS AND NOTES.
3. SEE BARRIER DETAILS SHEET BD-07 FOR BARRIER CONNECTION DETAIL.
4. SEE HIGHWAY CROSS SECTIONS FOR FINAL GRADE TREATMENT IN MEDIAN AROUND FOUNDATION.



SECTION A-A
SCALE: 1/4" = 1'-0"



END REINFORCING DETAIL
(LONGITUDINAL REINFORCEMENT NOT SHOWN FOR CLARITY)
SCALE: 1/2" = 1'-0"

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	BRG 09\21	Checked	JDW 09\21
				Drawn	ERB 09\21	In Charge of	TRC 09\21

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THE GOLD STAR MEMORIAL HIGHWAY			

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.			
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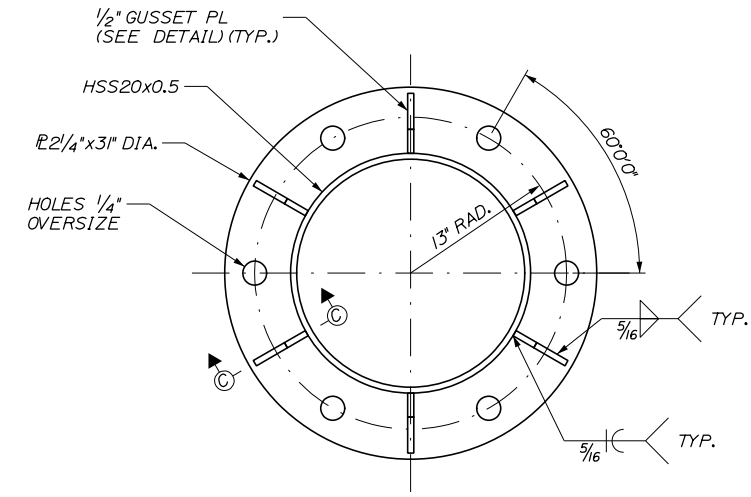
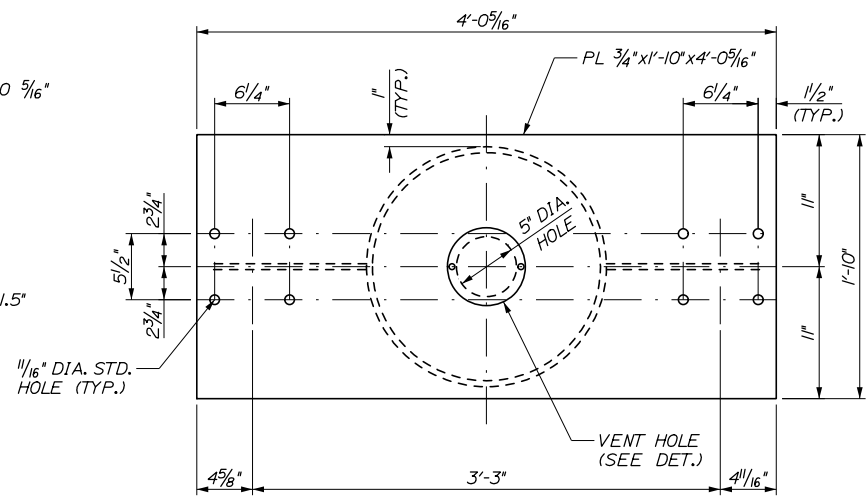
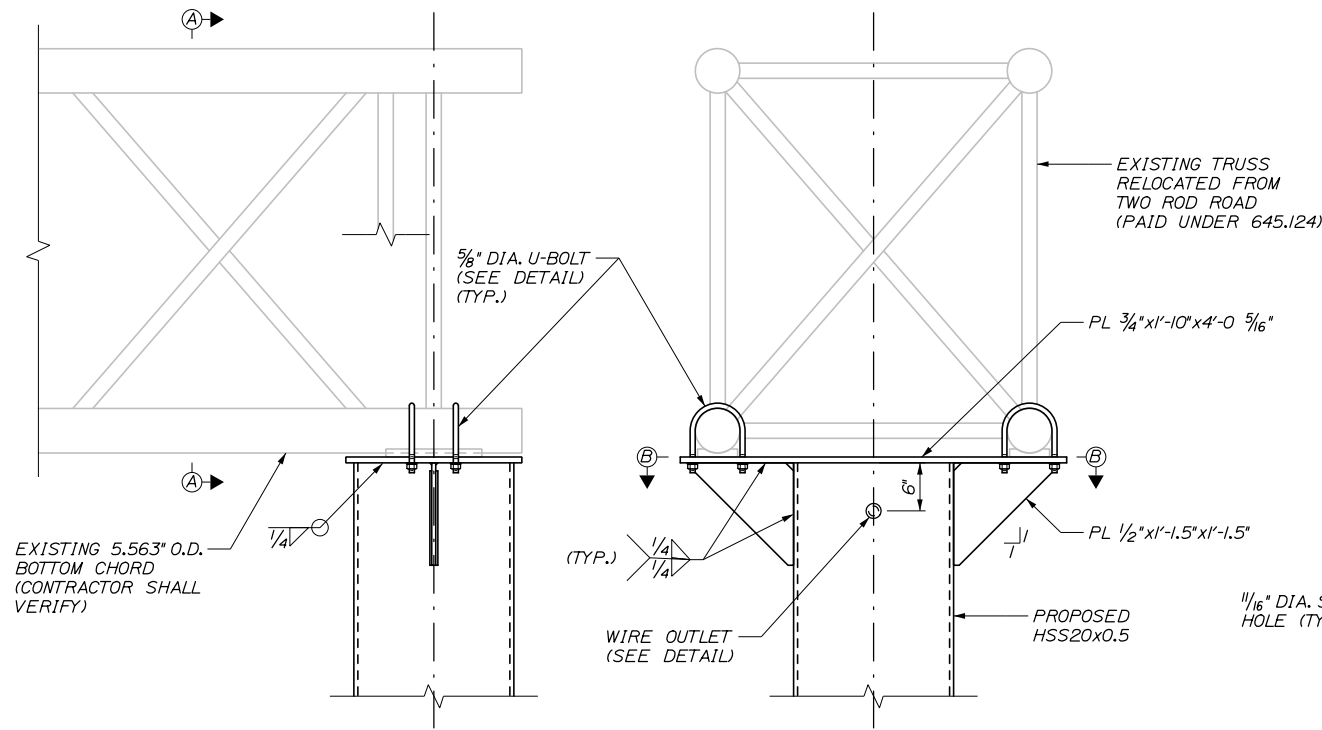
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS OVERHEAD SIGN STRUCTURE FOUNDATION II	
SHEET NUMBER: SS-05	CONTRACT: 2021.08
374 OF 376	

Date: 9/8/2021

Filename: PAW2_SS-06_Overhead_Sign_Structure_Column_Details

NOTE:

1. FABRICATION OF HSS SIGN SUPPORT AND CONNECTIONS SHALL BE PAID UNDER ITEM 645.124.
2. CONTRACTOR SHALL VERIFY ALL EXISTING HORIZONTAL TRUSS SUPPORT DIMENSIONS BEFORE FABRICATION. IF PLAN DIMENSIONS ARE DIFFERENT THAN FIELD DIMENSIONS, CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER. FABRICATION OF VERTICAL SUPPORTS AND CONNECTIONS SHALL NOT COMMENCE UNTIL DIMENSIONS ARE RESOLVED AND APPROVED BY THE RESIDENT.

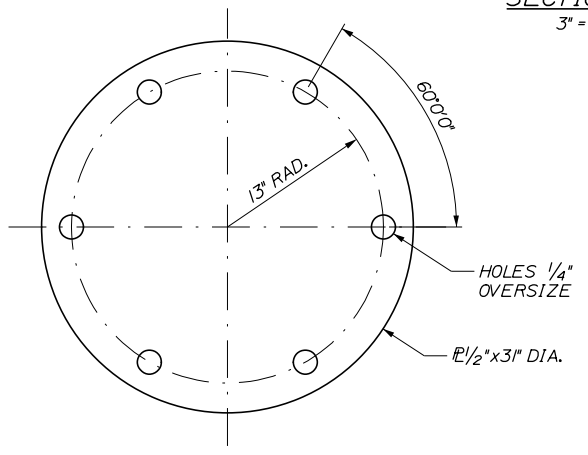
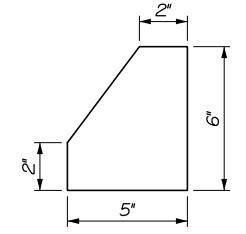
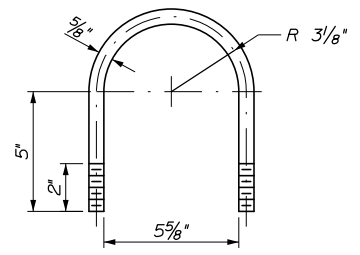
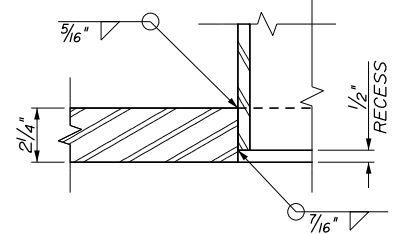
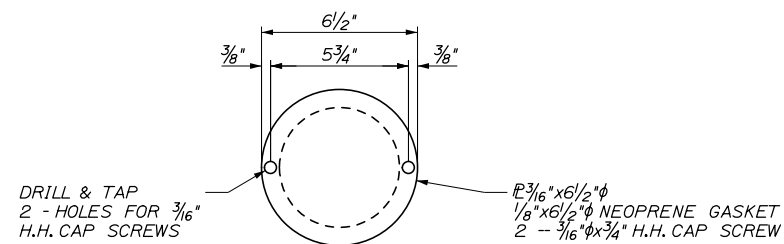
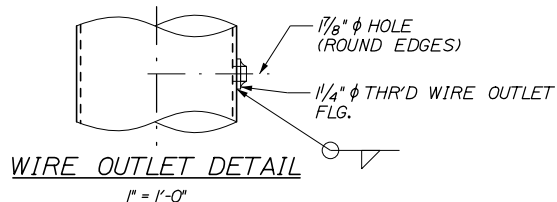
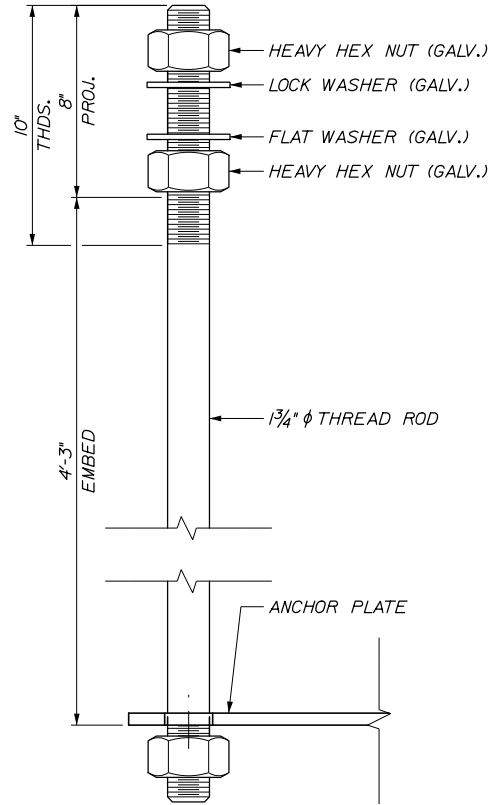


DETAIL A
1\"/>

SECTION A-A
1\"/>

SECTION B-B
1/2\"/>


BASE PLATE DETAIL
1/2\"/>



Scale:			
No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
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**THE GOLD STAR
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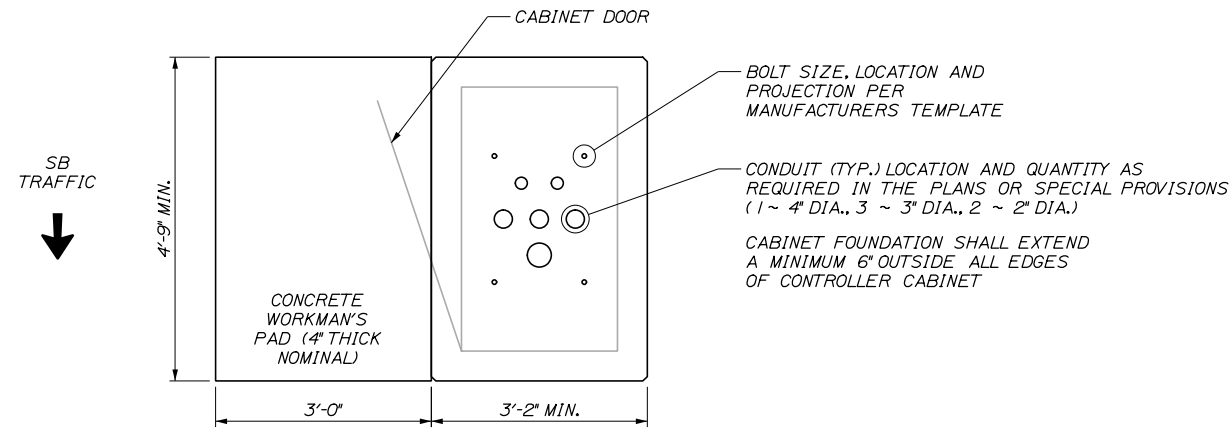
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
OVERHEAD SIGN STRUCTURE
COLUMN SUPPORT DETAILS

SHEET NUMBER: SS-06
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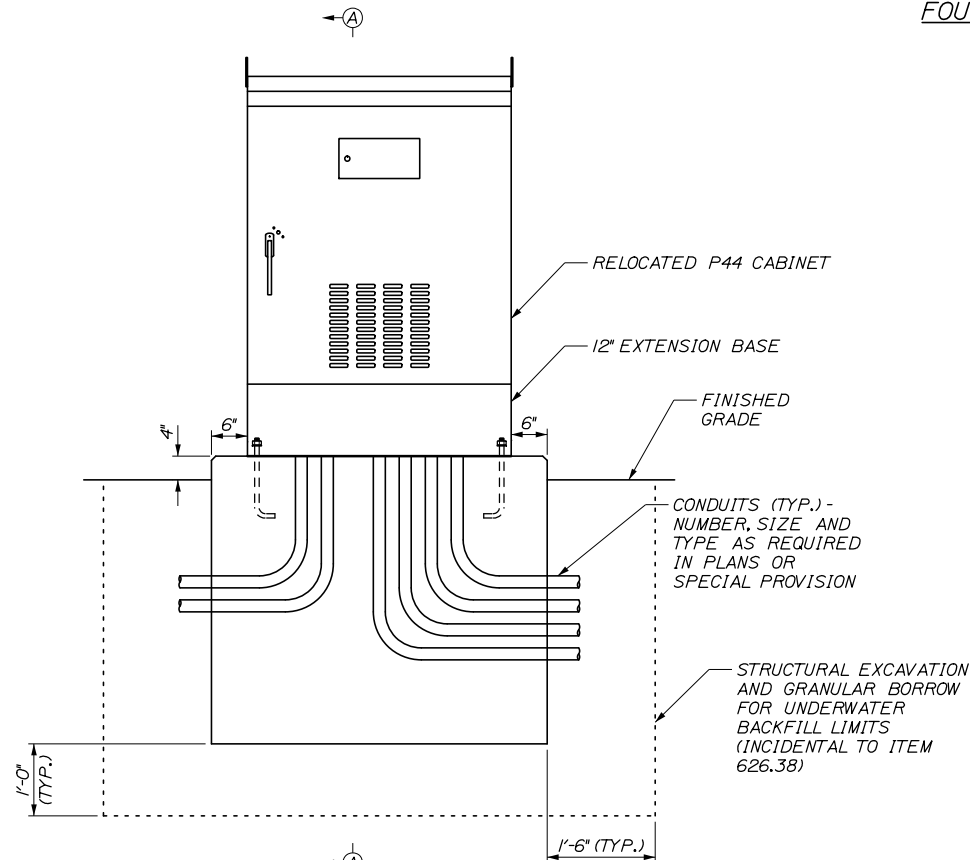
CONTRACT: 2021.08

Date: 9/8/2021



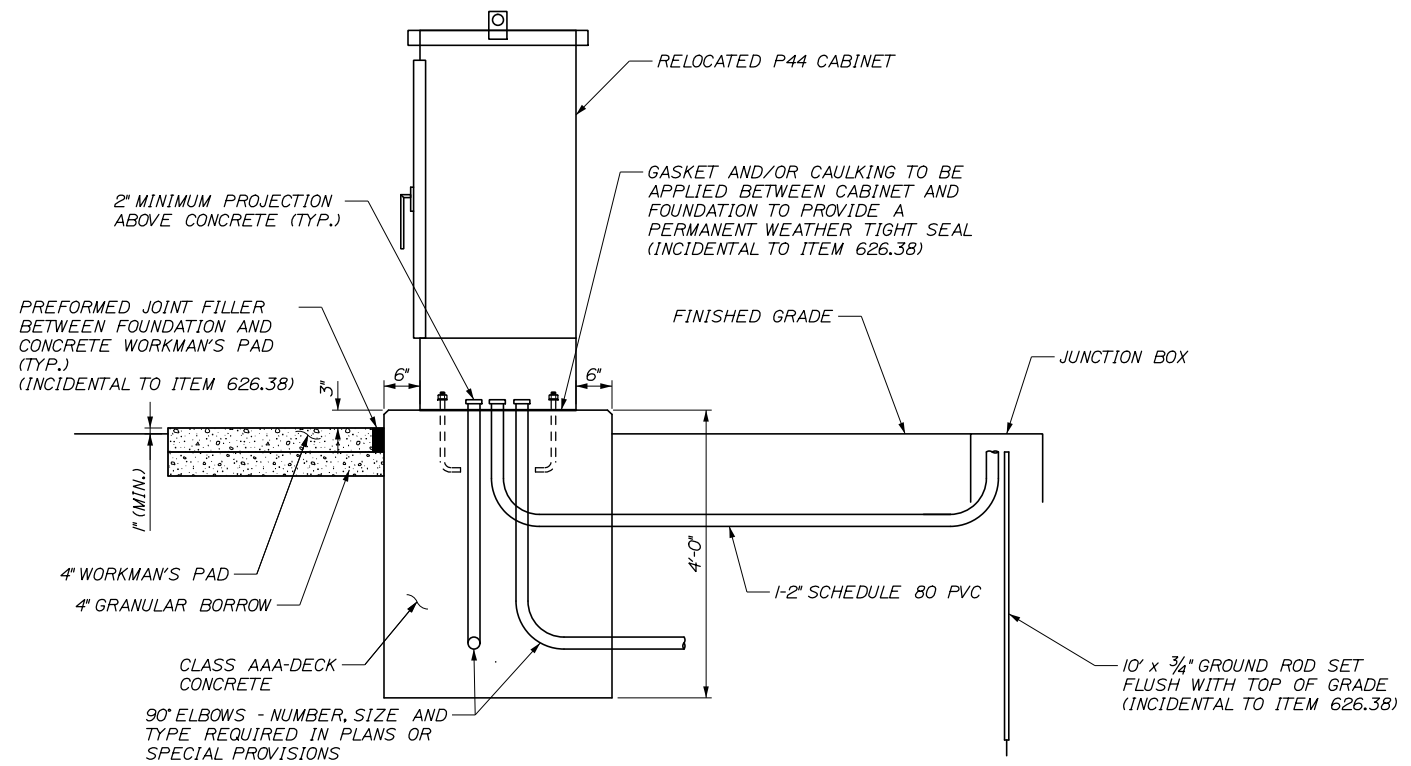
FOUNDATION PLAN

3/4" = 1'-0"



GROUND MOUNTED VMS CONTROLLER CABINET DETAIL

3/4" = 1'-0"



SECTION A-A

3/4" = 1'-0"

NOTES:

1. PAYMENT FOR CONTROLLER CABINET SHALL BE UNDER ITEM 645.124, SEE SPECIAL PROVISION.
2. PAYMENT FOR CONTROLLER CABINET FOUNDATION AND WORKMAN'S PADS SHALL BE UNDER ITEM 626.38.
3. WORKMAN'S PADS (AND CABINET DOORS) SHOULD BE ORIENTED AS SHOWN ON THE PLANS AND DIRECTED BY THE RESIDENT.
4. CONTRACTOR SHALL INSTALL A SPARE 3" PVC CONDUIT RUNNING TO JUNCTION BOX ADJACENT TO CABINET.
5. CONCRETE WORKMAN'S PAD SHALL HAVE #4 REINFORCING BARS AT 12" O.C. AT MID DEPTH IN BOTH DIRECTIONS, INCIDENTAL TO ITEM 626.38.
6. REINFORCING STEEL SCHEDULE SHALL BE SUBMITTED FOR CONTRATOR'S SELECTED FOUNDATION OPTION. ALL REINFORCING SHALL BE INCIDENTAL TO ITEM 626.38.
7. ALL EXCAVATION, INCLUDING ROCK EXCAVATION AND STRUCTURAL EXCAVATION AND BACKFILL SHALL BE INCIDENTAL.

Filename: PAW2_SS-07_VMS - Cabinet Details.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPOROVEMENTS
VARIABLE MESSAGE SIGNS
CABINET

SHEET NUMBER: SS-07
CONTRACT: 2021.08
376 OF 376