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 Division: HIGHWAY  
 Username:  
 Date: 2/20/2019



THE GOLD STAR  
MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY

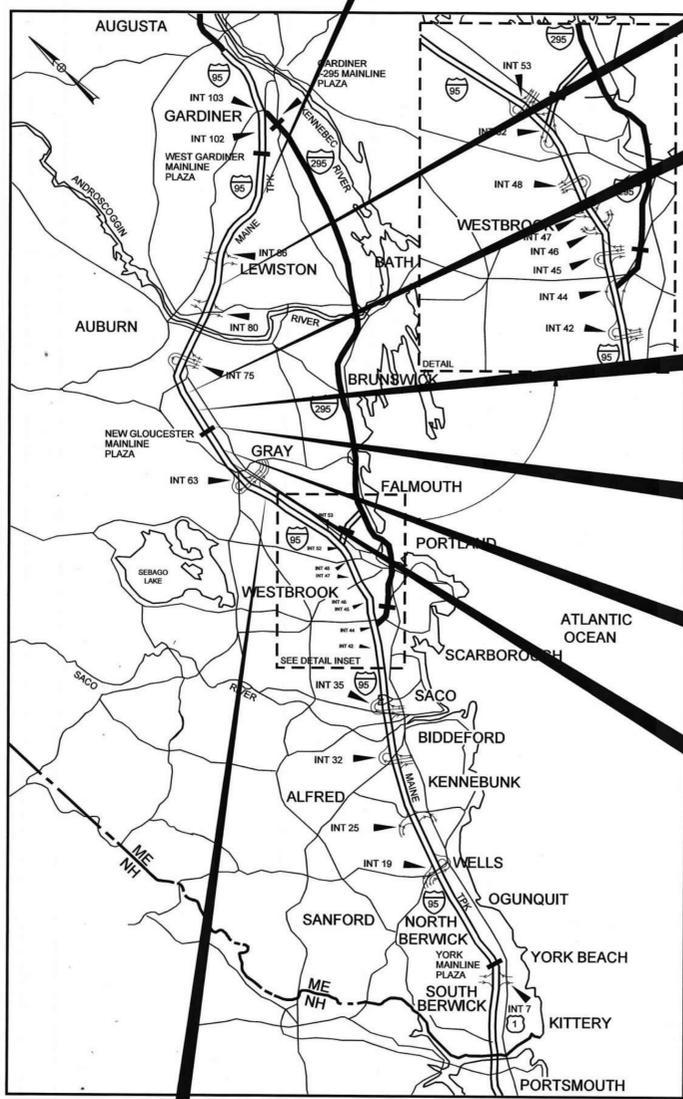
DANIEL E. WATHEN, CHAIR  
 ROBERT D. STONE, VICE CHAIR  
 MICHAEL J. CIANCHETTE, MEMBER  
 JOHN E. DORITY, MEMBER  
 ANN R. ROBINSON, MEMBER  
 THOMAS J. ZUKE, MEMBER  
 KAREN S. DOYLE, MEMBER EX-OFFICIO  
  
 S. PETER MILLS, EXECUTIVE DIRECTOR

## CONTRACT 2019.11 NORTHERN BRIDGE REPAIRS 6 LOCATIONS:

- ROUTE 26 UNDERPASS (MILE 64.3)
- OLD WEBSTER ROAD UNDERPASS (MILE 82.7)
- PLAINS ROAD UNDERPASS (MILE 95.6)
- PLEASANT RIVER CULVERT (MILE 62.3)
- COLE BROOK CULVERT (MILE 65.25)
- FOSTER BROOK CULVERT (MILE 72.9)

## EMERGENCY VEHICLE RAMPS BENNETT ROAD UNDERPASS (MILE 68.6)

## NEW GLOUCESTER TOLL PLAZA CASH LANE 8 REHABILITATION (MILE 67)



LOCATION MAP

- CONTRACT 2019.11  
BRIDGE REPAIRS,  
PLAINS ROAD  
UNDERPASS MILE 95.6
- CONTRACT 2019.11  
BRIDGE REPAIRS,  
OLD WEBSTER ROAD  
UNDERPASS MILE 82.7
- CONTRACT 2019.11  
FOSTER BROOK  
CULVERT REPAIRS  
MILE 72.9
- CONTRACT 2019.11  
EMERGENCY VEHICLE RAMPS,  
BENNETT ROAD  
UNDERPASS MILE 68.6
- CONTRACT 2019.11  
NEW GLOUCESTER TOLL  
PLAZA, CASH LANE 8  
REHABILITATION, MILE 67
- CONTRACT 2019.11  
COLE BROOK  
CULVERT REPAIRS  
MILE 65.25
- CONTRACT 2019.11  
BRIDGE REPAIRS,  
ROUTE 26  
UNDERPASS MILE 64.3

CONTRACT 2019.11  
PLEASANT RIVER  
CULVERT REPAIRS  
MILE 62.3

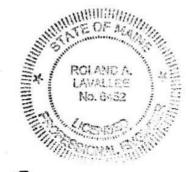
APPROVED: MAINE TURNPIKE AUTHORITY

PETER S. MERFELD, P.E.  
 CHIEF OPERATIONS OFFICER

STEPHEN R. TARTRE, P.E.  
 DIRECTOR OF ENGINEERING AND BUILDING MAINTENANCE

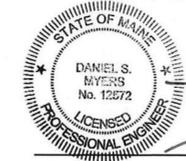
02-21-19  
DATE

2/2/19  
DATE



ROLAND A. LAVALLEE, P.E., PLS  
 HNTB DIRECTOR OF OPERATIONS, SHEETS 103-105

TYLIN INTERNATIONAL



DANIEL S. MYERS, P.E.  
 T.Y. LIN INTERNATIONAL PROJECT MANAGER, SHEETS 1-102

February 20, 2019  
DATE

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CONTRACT 2019.11

Date: 2/22/2019

Filename: ... \BRIDGE\WSTA\002\_Quantities.dgn

Item No.	Item Description	Unit	Quantities									Total Quantity
			Mile 62.3 Pleasant River Culvert	Mile 64.3 Route 26 Underpass	Mile 65.25 Cole Brook Culvert	Mile 68.6 Bennett Road EVR	Mile 72.9 Foster Brook Culvert	Mile 82.7 Webster Road Underpass	Mile 95.6 Plains Road Underpass	Mile 67.0 New Gloucester Toll Plaza		
201.11	CLEARING	AC		0.10		0.60					0.70	
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	CY		55							55	
202.127	REMOVING EXISTING BITUMINOUS PAVEMENT	LS	(2765 SY)	0.47					0.20	0.33	1	
202.1295	HYDRO-DEMOLITION	SY								60	60	
202.191	REMOVING EXISTING DRAIN TROUGHS	LS		1							1	
202.202	REMOVING PAVEMENT SURFACE	SY		240		47					287	
202.203	PAVEMENT BUTT JOINT	SY							250	330	580	
203.20	COMMON EXCAVATION	CY		350		420					770	
203.25	GRANULAR BORROW	CY		102							102	
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY		390		660					1,050	
304.14	AGGREGATE BASE COURSE - TYPE A	CY				360					360	
403.208	HOT MIX ASPHALT - 12.5MM NOMINAL MAXIMUM SIZE	TON		218		310			65	112	705	
403.211	HOT MIX ASPHALT - SHIM	TON		15							15	
403.213	HOT MIX ASPHALT, 12.5MM NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE COURSE)	TON		378		330			45	77	830	
409.15	BITUMINOUS TACK COAT RS-1 OR RS-Ah - APPLIED	GAL		188		120			40	69	417	
419.30	SAWING BITUMINOUS PAVEMENT	LF		140		390					530	
470.08	BERM DROP OFF CORRECTION - GRINDINGS	TON				110					110	
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	CY		50							50	
502.262	STRUCTURAL CONCRETE ROADWAY SLAB WEARING SURFACE	CY								5	5	
502.42	STRUCTURAL CONCRETE, ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGE	CY		13							13	
502.701	BRIDGE DRAIN GRATE MODIFICATIONS	EA		2				2		4	8	
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	LB		17,215							17,215	
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	LB		17,215							17,215	
503.90	SYNTHETIC FIBER REINFORCEMENT	LB								25	25	
507.0928	ALUMINUM BRIDGE RAILING - RAIL SECTION REPLACE	LF		20							20	
507.095	ALUMINUM BRIDGE RAILING - SPLICE MODIFICATION	EA		32				20	36		88	
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	LS	(2765 SY)	0.47				0.20	0.33		1	
511.07	COFFERDAM	EA	2		2						4	
515.201	PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES	SY		675				275	405		1,355	
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY		890				470	755	150	2,265	
515.23	EPOXY OVERLAY	SY								12	12	
518.10	ABUTMENT REPAIRS	SF	125	520	125			35	10		815	
518.20	PIER REPAIRS	SF		1,155				220	730		2,105	
518.40	EPOXY INJECTION CRACK REPAIR	LF	125	40	275				5		445	
518.43	PARAPET JOINT REPAIRS	LF		580				325	545		1,450	
518.71	REPAIR OF OVERHEAD SURFACES < 8 INCHES	SF						75			75	
518.75	FASCIA AND OVERHANG REPAIRS	SF							500		500	
518.80	PARTIAL DEPTH CONCRETE DECK REPAIRS	SF		85				75	110		270	
518.81	FULL DEPTH CONCRETE DECK REPAIRS	SF		5				5	5		15	
520.21	EXPANSION DEVICE - GLAND SEAL	EA		2							2	
520.2211	EXPANSION DEVICE MODIFICATIONS (WEBSTER ROAD)	EA						2			2	
520.2211	EXPANSION DEVICE MODIFICATIONS (PLAINS ROAD)	EA							2		2	
523.522	BEARING BOLSTERS & SPACER PLATES, FABRICATED AND DELIVERED	LS		1							1	
523.524	BEARING BOLSTERS & SPACER PLATES, INSTALLED	LS		1							1	
524.7211	JACKING EXISTING SUPERSTRUCTURE	LS		1							1	
526.306	TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY THE AUTHORITY	LS	0.12	0.31	0.12	0.18	0.12	0.08	0.08		1	
527.341	WORK ZONE CRASH CUSHIONS - TL-3	UNIT	2	2	2	2	2	2	2		14	
527.342	WORK ZONE CRASH CUSHIONS - TL-2	UNIT		2							2	
603.169	15 INCH CULVERT PIPE OPTION III	LF				150					150	
603.55	CONCRETE PIPE TIES	GP					18				18	
603.91	PRESSURE TREATED WOOD DRAIN TROUGH	LF		80							80	
606.1301	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	LF		450			82				532	
606.1303	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)	LF					19				19	
606.1304	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)	LF		25			46				71	
606.1305	31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (31" HEIGHT)	EA		1							1	
606.1351	TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL	EA		1			3				4	
606.1723	BRIDGE TRANSITION - TYPE III	EA		4							4	
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	EA		6			3				9	
606.3631	GUARDRAIL - REMOVE AND STACK OR DISPOSE	LF		590			179				769	
607.09	WOVEN WIRE FENCE - METAL POSTS	LF					130				130	
607.17	CHAIN LINK FENCE - 6 FOOT	LF		350				285	260		895	
607.23	CHAIN LINK FENCE GATE	EA		2				2	2		6	
607.2326	AUTOMATIC ENTRY GATE SYSTEM	LS					1				1	
607.32	BRACING ASSEMBLY TYPE I - METAL POSTS	EA					8				8	
607.33	BRACING ASSEMBLY TYPE II - METAL POSTS	EA					2				2	
607.34	BRACING ASSEMBLY CHAIN LINK FENCE	EA		16				16	16		48	
609.191	CONCRETE CURB TYPE 2	LF		60							60	
610.08	PLAIN RIPRAP	CY		20			6				26	
613.319	EROSION CONTROL BLANKET	SY		550			840				1,390	

**ROUTE 26 EARTHWORK SUMMARY**

**COMMON EXCAVATION FOR ESTIMATE**

COMMON EXCAVATION (FROM CROSS SECTIONS)	220
COMMON EXCAVATION (FROM BRIDGE)	93
GRUBBING IN FILL	21
PAVEMENT SALVAGE IN FILL	36
TOTAL COMMON EXCAVATION (for estimate)	370

**FILL FOR BORROW CALCULATIONS**

COMMON FILL (FROM CROSS SECTIONS)	74
GRUBBING IN FILL	21
PAVEMENT SALVAGE IN FILL	36
TOTAL FILL	131

**AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS**

(1) TOTAL COMMON EXCAVATION	370
DEDUCTIONS:	
GRUBBING IN CUT	33
GRUBBING IN FILL	21
PAVEMENT SALVAGE (CUT & FILL)	151
(2) TOTAL DEDUCTIONS	206
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)	164
RIPRAP EXCAVATION (1/2 USABLE)	10
TOTAL AVAILABLE NON-ROCK EXCAVATION	174

**COMPUTATION OF WASTE STORAGE & WASTE MATERIAL**

TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)	0
GRUBBING IN CUT	33
GRUBBING IN FILL	21
RIPRAP EXCAVATION (1/2 WASTE)	10
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)	0
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)	64

**COMPUTATION OF GRANULAR BORROW FOR ESTIMATE**

GRANULAR BORROW FOR BRIDGE	108
GRANULAR BORROW =	108 x 1.00 = 108

**COMPUTATION FOR COMMON BORROW FOR ESTIMATE**

(3) TOTAL FILL	131
TOTAL AVAIL. NON-ROCK EXCAV.	174 x 0.90 = 156
TOTAL AVAIL. ROCK EXCAV.	0 x 1.30 = 0
TOTAL AVAIL. STR. ROCK EXCAV.	0 x 1.30 = 0
TOTAL WASTE MATERIAL TO BE UTILIZED	0 x 1.10 = 0

(4) TOTAL AVAILABLE EXCAVATION

BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED

TOTAL AVAILABLE EXCAVATION	156
BORROW NEEDED	-25
TOTAL SURPLUS MATERIAL	90

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	KSD	1/2019
Drawn	DSM	1/2019	In Charge of	DSM	1/2019

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS

ESTIMATED QUANTITIES

SHEET 1 OF 2

SHEET NUMBER: QT-01

CONTRACT: 2019.11

2 OF 105

Date: 2/22/2019

Filename: ... \BRIDGE\WSTA\002\_Quantities.dgn

Item No.	Item Description	Unit	Quantities								Total Quantity
			Mile 62.3 Pleasant River Culvert	Mile 64.3 Route 26 Underpass	Mile 65.25 Cole Brook Culvert	Mile 68.6 Bennett Road EVR	Mile 72.9 Foster Brook Culvert	Mile 82.7 Webster Road Underpass	Mile 95.6 Plains Road Underpass	Mile 67.0 New Gloucester Toll Plaza	
615.07	LOAM	CY		70		330					400
618.14	SEEDING METHOD NUMBER 2	UNIT		6		27					33
619.1201	MULCH - PLAN QUANTITY	UNIT		1		27					28
619.1301	BARK MULCH	CY		40				30	35		105
620.58	EROSION CONTROL GEOTEXTILE	SY		15		19					34
620.625	CELLULAR CONFINEMENT SYSTEM	SY		350							350
621.037	EVERGREEN TREE (5'-6') GROUP GP A	EA				10					10
626.12	QUAZITE JUNCTION BOX	EA				4					4
626.22	NON-METALLIC CONDUIT	LF				760					760
626.223	HORIZONTAL DIRECTIONAL DRILLED CONDUIT	LF				330					330
627.712	WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	LF		2,150				860	1,500		4,510
627.752	TEMPORARY WHITE OR YELLOW PAVEMENT AND CURB MARKING	SF		36							36
627.77	REMOVING PAVEMENT MARKINGS	SF		720							720
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF		5,850				1,750	2,950		10,550
629.05	HAND LABOR - STRAIGHT TIME	HR		40		20					60
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR		20		10					30
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	HR		40		20					60
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	HR		5							5
631.36	FOREMAN	HR		20		10					30
639.19	FIELD OFFICE, TYPE B	EA	0.03	0.43	0.04	0.18	0.02	0.10	0.18	0.02	1
643.72	TEMPORARY TRAFFIC SIGNAL	LS		1							1
645.106	DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	EA		3		7					10
645.116	REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	EA		3		7					10
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN, TYPE I	SF		18		27					45
652.30	FLASHING ARROW BOARD	EA	2	2	2	2	2	2	2		14
652.312	TYPE III BARRICADE	EA		2				3	4	2	11
652.331	DRUM	LS	0.14	0.12	0.14	0.12	0.14	0.14	0.14	0.07	1
652.34	CONE	EA								15	15
652.35	CONSTRUCTION SIGNS	SF	1,200	1,850	1,200	1,200	1,200	1,350	1,550	64	9,614
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.06	0.38	0.06	0.13	0.06	0.13	0.13	0.05	1
652.38	FLAGGERS	HR		430		580					1,010
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA		2		2		2	2		8
652.45	TRUCK MOUNTED ATTENUATOR	CD	4	4	4	6	4	14	14		50
652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	CD	4	4	4	2	4	14	14		46
652.46	TEMPORARY PORTABLE RUMBLE STRIPS	UNIT	12	12	12	18	12	42	42		150
655.04	INSTALLATION OF SENSOR LOOPS	LS								1	1
656.50	BALED HAY, IN PLACE	EA	10	50	20	100	10	20	30		240
656.60	TEMPORARY BERMS	LF	10	40	10	80	10	40	40		230
656.62	TEMPORARY SLOPE DRAINS	LF	10	40	10	80	10	40	40		230
656.632	30 INCH TEMPORARY SILT FENCE	LF	100	630	160	1,950	150	100	240		3,330
659.10	MOBILIZATION	LS	0.03	0.43	0.04	0.18	0.02	0.10	0.18	0.02	1

BENNETT ROAD EARTHWORK SUMMARY		
COMMON EXCAVATION FOR ESTIMATE		
COMMON EXCAVATION (FROM CROSS SECTIONS)		413
EARTH FROM DRIVES, OLD ROAD, ETC.		1
CULVERT INLET AND OUTLET DITCHES		15
PAVEMENT SALVAGE IN FILL		61
TOTAL COMMON EXCAVATION (for estimate)		489
FILL FOR BORROW CALCULATIONS		
COMMON FILL (FROM CROSS SECTIONS)		200
PAVEMENT SALVAGE IN FILL (OFF ROAD ONLY)		5
TOTAL FILL		205
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS		
(1) TOTAL COMMON EXCAVATION		489
DEDUCTIONS:		
GRUBBING IN CUT		87
GRUBBING IN FILL		0
PAVEMENT SALVAGE (CUT & FILL)		70
(2) TOTAL DEDUCTIONS		157
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		332
RIPRAP EXCAVATION (1/2 USABLE)		3
TOTAL AVAILABLE NON-ROCK EXCAVATION		334
COMPUTATION OF WASTE STORAGE & WASTE MATERIAL		
TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)		0
GRUBBING IN CUT		87
GRUBBING IN FILL		0
RIPRAP EXCAVATION (1/2 WASTE)		3
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)		0
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)		90
COMPUTATION FOR COMMON BORROW FOR ESTIMATE		
(3) TOTAL FILL		205
TOTAL AVAIL. NON-ROCK EXCAV.	334 x 0.90 =	301
TOTAL AVAIL. ROCK EXCAV.	0 x 1.30 =	0
TOTAL AVAIL. STR. ROCK EXCAV.	0 x 1.30 =	0
TOTAL WASTE MATERIAL TO BE UTILIZED	0 x 1.10 =	0
(4) TOTAL AVAILABLE EXCAVATION		301
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION		-96
IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED		186

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	DSM	1/2019	Checked	KSD	1/2019
Drawn	DSM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ESTIMATED QUANTITIES  
 SHEET 2 OF 2

SHEET NUMBER: QT-02  
 CONTRACT: 2019.11  
 3 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_Gen Hwy NOTES.dgn

**GENERAL CONSTRUCTION NOTES**

- ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES LATEST REVISION AND MDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS, WITHIN LIMITS OF DISTURBANCE, SHALL BE REMOVED AND RESET UPON COMPLETION OF THE CONTRACT. PAYMENT WILL BE INCIDENTAL TO CONTRACT.
- IN AREAS OF PROPOSED PIPE ENTRY GATES AND NEW FENCE, EXISTING CHAIN LINK OR WIRE FENCE SHALL BE REMOVED. REMOVING AND DISPOSING OF EXISTING FENCE SHALL BE INCIDENTAL TO PIPE ENTRY AND PROPOSED FENCE BID ITEMS. PROPOSED FENCE AND PIPE ENTRY GATE SHALL BE INSTALLED CONTINUOUSLY WITH NO GAPS, TO ACCOMMODATE THE REVISED GRADING OF THE EMERGENCY VEHICLE RAMP. WOVEN WIRE FENCE MAY NEED TO BE CUT OR ADDITIONAL POSTS, BRACING ASSEMBLIES, OR FABRIC MAY NEED TO BE INSTALLED. ALL WORK SHALL BE DONE IN CONFORMANCE WITH MAINE DOT STANDARD SPECIFICATIONS, REVISION 2014, SECTION 607 AND MAINE DOT STANDARD DETAILS, REVISION 2014, SECTION 607.
- CONNECTION FOR PROPOSED FENCE TO EXISTING FENCE SHALL BE INCIDENTAL TO THE CONTRACT INCLUDING ANY REQUIRED ADDITIONAL BRACING FOR THE EXISTING FENCE.
- NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
- THE CONTRACTOR SHALL NOTE THAT THE ACTUAL EXISTING PAVEMENT THICKNESS MAY VARY FROM THE DEPTHS SHOWN ON THE PLANS. REMOVAL OF EXISTING PAVEMENT SHALL BE PAID AS COMMON EXCAVATION.
- ALL NEW UNDERGROUND ELECTRICAL SERVICE LINES FOR THE NEW BENNETT ROAD NORTHBOUND AND SOUTHBOUND EVR ACCESS GATES WILL CONSIST OF 3" CONDUITS. THE HORIZONTAL DIRECTIONAL DRILLING LOCATION NOTED ON THE PLANS UNDER THE MAINE TURNPIKE WILL BE 3 INDIVIDUAL DRILLINGS TO ACCOMMODATE 3 INDIVIDUAL CONDUITS.
- TEN (10) EVERGREEN TREES SHALL BE PLANTED ALONG THE BENNETT ROAD NORTHBOUND EMERGENCY VEHICLE RAMP FOR THE GENERAL PURPOSE OF REPLACING TREES REMOVED IN FRONT OF THE ABUTTING GUAY PROPERTY DURING CONSTRUCTION. THE LOCATION OF THE NEW TREES TO BE PLANTED SHALL BE AT THE DIRECTION OF THE RESIDENT AND WILL BE PAID FOR UNDER ITEM 621.037 - EVERGREEN TREE (5'-6') GP A.

**EARTHWORK**

- 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 AND CLEARING TAKING PLACE. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL STUMPS WITHIN THE EVR CLEARING LIMITS SHALL BE REMOVED, THE AREA RE-GRADED, LOAMED, AND SEEDED. STUMP REMOVAL SHALL BE INCIDENTAL TO CLEARING. STUMPS ON BENNETT ROAD EMBANKMENT SHALL BE CUT FLUSH WITH THE EMBANKMENT LEAVING THE ROOT STRUCTURE INTACT. GRUBBING FROM EVR CONSTRUCTION SHOULD BE USED ON THE EMBANKMENT TO CREATE A SMOOTH SURFACE. THE EMBANKMENT AREA SHOULD THEN BE SEEDED AND COVERED WITH EROSION CONTROL BLANKET. THE REMAINING GRUBBINGS SHALL BE USED AS LOAM BETWEEN THE EVR AND BENNETT ROAD TOES OF SLOPE.
- MUCK EXCAVATION HAS BEEN ESTIMATED FOR ALL WETLAND AREAS AT A 1' DEPTH BELOW NORMAL GRUBBING. THE CONTRACTOR SHALL CONFIRM WITH THE RESIDENT THE ACTUAL LIMITS AND DEPTH BEFORE PLACING ANY AGGREGATE.
- THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6' (12" IN WOODED AND WETLAND AREAS).
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PAR 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
- EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS DIRECTED BY THE RESIDENT.
- FILL/BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203. GRANULAR BORROW, AGGREGATE BASE, AND AGGREGATE SUBBASE SHALL BE COMPACTED TO 98% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR FOR AREAS OF BACKFILL MATERIAL BEHIND ABUTMENTS AND RETAINING WALLS, EXCEPT AS AMENDED BY SPECIAL PROVISION 203. GRANULAR BORROW, AGGREGATE BASE, AND AGGREGATE SUBBASE SHALL BE COMPACTED TO 95% IN ALL OTHER AREAS.

**EROSION CONTROL**

- 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.
- 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. GRUBBINGS FROM THE EVR CONSTRUCTION SHALL BE USED ON THE BENNETT ROAD EMBANKMENT; SEE EARTHWORK NOTE 2.
- ALL SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 2.
- MULCH SHALL BE APPLIED IN AREAS SEEDED 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.
- EROSION CONTROL BLANKET 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.
- CELLULAR CONFINEMENT SYSTEM SHALL BE USED ON ALL SLOPES STEEPER THAN 2:1 AND SHALL BE INSTALLED PER THE SPECIAL PROVISIONS.

**DRAINAGE**

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED, OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
- IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL.

**LOCAL ROAD**

- ALL JOINTS BETWEEN EXISTING AND PROPOSED BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER THE APPROPRIATE CONTRACT PAY ITEMS.

**GUARDRAIL**

- GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL. AT THE END OF THE WORK DAY, EVERY DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL WITHIN ALL WORK AREAS.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE GUARDRAIL ITEM.
- ALL EXISTING GUARDRAIL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
- POST HOLES FROM GUARDRAIL REMOVED SHALL BE FILLED AND COMPACTED WITH TYPE D GRAVEL. PAYMENT FOR FILLING HOLES SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
- TWO REFLECTORIZED FLEXIBLE GUARDRAIL MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END TREATMENT.
- FOR ALL NEW GUARDRAIL TYPES "3" W-BEAM GUARDRAIL MID-WAY SPLICE" AND THREE-BEAM SINGLE RAIL, OFFSET BLOCKS SHALL BE NON-WOOD CONFORMING TO NCHRP 350 TEST LEVEL 3.

**UTILITY**

- ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.
- 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.
- 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. EXCAVATING WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THAT 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 THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	BLT	6/2018	Checked	TSK	1/2019
Drawn	BLT	6/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

**NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS**

GENERAL NOTES

SHEET NUMBER: GN-01

CONTRACT: 2019.11

4 OF 105

Date: 2/22/2019

Filename: ... \BRIDGE\WSTA\xxx\_Gen\_Notes.dgn

**SPECIFICATIONS:**

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS  
8TH EDITION WITH INTERIMS THROUGH 2018.

CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS NOVEMBER, 2014

STATE OF MAINE DEPARTMENT OF TRANSPORTATION  
STANDARD DETAILS, NOVEMBER 2014, WITH LATEST  
REVISIONS

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS,  
THIRD EDITION WITH 2016 INTERIMS

DESIGN LOADING:

LIVE LOAD

HL-93

MATERIALS:

CONCRETE

CONCRETE END POSTS, WINGWALLS AND ABUTMENT  
BACKWALLS SHALL BE CLASS AAA.

ALL OTHER PATCHING AND REPAIR AREAS SHALL  
BE CLASS AAA-MODIFIED.

REINFORCING STEEL

AASHTO M31, GRADE 60 EPOXY-COATED.

BASIC DESIGN STRESSES:

CONCRETE

CLASS AAA,  $f_c = 4,500$  P.S.I.  
CLASS AAA - MODIFIED,  $f_c = 4,500$  P.S.I.

REINFORCING STEEL

$f_y = 60,000$  P.S.I.

**GENERAL NOTES:**

1. THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM. THE AS-BUILT PLANS ARE BASED ON NGVD 29 DATUM.
2. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, HIGHWAYS AND BRIDGES, NOVEMBER 2014 WITH UPDATES.
3. COPIES OF THE AS-BUILT PLANS ARE ON FILE AND ARE AVAILABLE ON THE MAINE TURNPIKE AUTHORITY WEBSITE. THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
4. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" MIN., UNLESS OTHERWISE NOTED.
5. CHAMFER ALL EXPOSED CONCRETE EDGES  $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.
6. ALL PROPOSED CONCRETE CURB FACES AND INSIDE AND TOP FACES OF THE ENDPPOSTS SHALL RECEIVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE.
7. SHIELDING REQUIRED DURING CONSTRUCTION SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF GIRDERS.
8. ALL PAINT ON EXISTING STEEL, DAMAGED BY CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTE THAT THE EXISTING BRIDGE STRUCTURES CONTAIN LEAD BASED PAINT. THE CONTRACTOR SHALL INSTITUTE EVERY PRECAUTION WHEN WORKING WITH MATERIALS COATED WITH LEAD PAINT.
9. WHERE DRILLING AND ANCHORING OF REINFORCING STEEL IS SPECIFIED THE CONTRACTOR SHALL USE A MATERIAL LISTED ON THE MAINE DOT PREQUALIFIED LIST OF CHEMICAL ANCHORING MATERIALS. THE DEPTH OF EMBEDMENT SHALL BE SUFFICIENT TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR, BUT SHALL BE NO LESS THAN THE MINIMUM DEPTH OF EMBEDMENT WHEN SPECIFIED. WHERE MINIMUM EMBEDMENT DEPTH HAVE NOT BEEN SPECIFIED, BAR LENGTHS HAVE BEEN DEVELOPED BASED ON AN ASSUMED EMBEDMENT DEPTH OF 9" FOR #5 BARS AND 11" FOR #6 BARS. THE CONTRACTOR SHALL VERIFY THE REQUIRED DEPTH OF EMBEDMENT AND ADJUST THE REQUIRED BAR LENGTHS AS REQUIRED.
10. PAYMENT FOR DRILLING AND ANCHORING OF REINFORCING STEEL IS INCIDENTAL TO ITEM 503.15, EPOXY-COATED REINFORCING STEEL, PLACING.

**CONCRETE REPAIR PROCEDURAL NOTES:**

1. CONCRETE REPAIRS, INCLUDING THE ASSOCIATED REMOVALS, WILL BE PAID UNDER 518 ITEMS.
2. ANY REINFORCING STEEL REQUIRED TO REPLACE DETERIORATED EXISTING REINFORCEMENT SHALL BE EPOXY COATED AND WILL BE INCIDENTAL TO 518 ITEMS.

**REMOVAL PROCEDURE:**

1. CONTRACTOR SHALL REMOVE TECTYL COATING WHERE PRESENT PRIOR TO WORK. PAYMENT SHALL BE INCIDENTAL TO THE SPECIFIED 518 ITEMS.
2. PRIOR TO THE START OF THE CONCRETE REMOVAL, THE RESIDENT AND THE CONTRACTOR SHALL SOUND ALL EXPOSED SURFACES OF CONCRETE AND AGREE ON THE REMOVAL LIMITS. SHOULD THE REMOVAL AREA LIMITS APPEAR TO CHANGE DURING THE DEMOLITION PROCESS, THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE REMOVAL.
3. PERFORM 1 INCH DEEP SAWCUTS ALONG LIMITS OF REMOVAL.
4. CHIP CONCRETE TO DEPTH REQUIRED PER SPECIFICATIONS.

**CONCRETE SURFACE PATCH/REPAIR PROCEDURE:**

1. PREPARE AND PATCH REPAIR AREAS WITH CLASS AAA - MODIFIED CONCRETE. SEE SPECIFICATIONS FOR MATERIAL, PREPARATION, PLACEMENT, AND CURING REQUIREMENTS.

**GENERAL FINISHING:**

1. ALL EXPOSED CONCRETE SURFACES SHALL BE COATED WITH A PROTECTIVE COATING SUITABLE FOR CONCRETE SURFACES AFTER PATCHING IS COMPLETE AND PATCH MATERIALS HAVE CURED. PIGMENTED PROTECTIVE COATING SHALL BE APPLIED TO ALL ABUTMENT FACES, ALL WINGWALL FACES, AND ALL BARRIER OUTSIDE FACES. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL CONCRETE CURB FACES, ALL FASCIAS AND FASCIA OVERHANGS, AND ALL BARRIER INSIDE AND TOP FACES.

**LIST OF ABBREVIATIONS**

ABUT.	ABUTMENT
ADDL.	ADDITIONAL
ASCG.	AGGREGATE SUBBASE COURSE GRAVEL
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BOT.	BOTTOM
BRG.	BEARING
CL.	CLEAR
Ⓞ	CENTERLINE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
DEMO.	DEMOLITION
DIA.	DIAMETER
DIAPH.	DIAPHRAGM
EA.	EACH
EB	EASTBOUND
E.F.	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FAR FACE
JT.	JOINT
MAX.	MAXIMUM
MIN.	MINIMUM
MTA	MAINE TURNPIKE AUTHORITY
NB	NORTHBOUND
N.F.	NEAR FACE
N.T.S.	NOT TO SCALE
O.H.W.	ORDINARY HIGH WATER
PED.	PEDESTAL
PGL	PROFILE GRADE LINE
Ⓟ	PLATE
PROP.	PROPOSED
RDWY.	ROADWAY
SHLD.	SHOULDER
SB	SOUTHBOUND
SP.	SPACES
STA.	STATION
T.&B.	TOP & BOTTOM
TPKE.	TURNPIKE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
WB	WESTBOUND
W.P.	WORKING POINT

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	DSM	12/2018	Checked	DSM	12/2018
Drawn	JJB	12/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS

BRIDGE GENERAL NOTES

SHEET NUMBER: GN-02  
CONTRACT: 2019.11  
5 OF 105

Date: 2/22/2019

Filename: ...XXX\_Traffic Control Details\_01.dgn

GENERAL MAINTENANCE OF TRAFFIC NOTES:

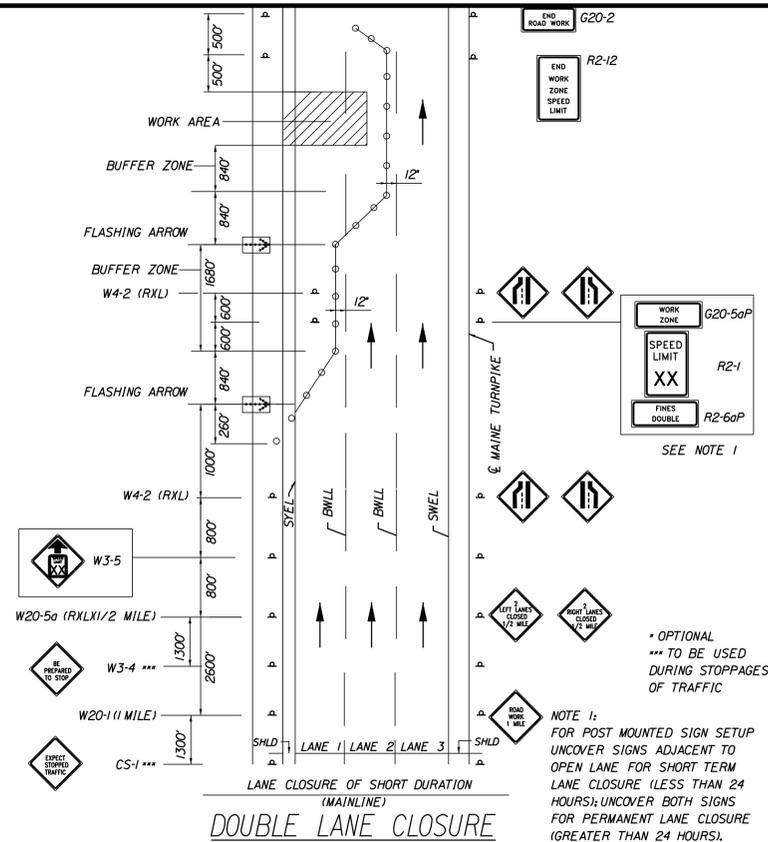
1. CONTRACTOR SHALL REFER TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, FOR TEMPORARY TRAFFIC CONTROL MEASURES AND TYPICAL APPLICATIONS FOR OTHER WORK ZONE ARRANGEMENTS ON TURNPIKE MAINLINE AND OVERPASS ROADWAYS.
2. FOR SIGN DETAILS, SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEET.
3. ALL CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION.
4. ALL WORK TO CONFORM TO THE 2014 MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, REVISION OF 2014, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
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. TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE OR EXISTING PAVEMENT TO REMAIN SHALL BE TEMPORARY PAVEMENT MARKING TAPE TO BE REMOVED PRIOR TO FINAL PAVEMENT MARKING.
6. AT NO TIME SHALL SHOULDER CLOSURES ON BOTH SIDES OF THE TRAVEL LANES OCCUR ON THE SAME SIDE OF THE MAINLINE.
7. WORK WITHIN SHOULDER CLOSURES SHALL BE CONTINUOUS TO MINIMIZE IMPACTS TO MAINLINE TRAFFIC.
8. CONTRACTOR SHALL COORDINATE ALL MAINTENANCE OF TRAFFIC WITH ADJACENT PROJECTS.
9. WHEN TRUCK MOUNTED ATTENUATORS ARE INCLUDED IN THE CONTRACT (INCIDENTAL OR PAY ITEM), THEY SHALL BE LOCATED WITHIN THE WORK ZONE, NOT THE BUFFER ZONE.
10. LOCATIONS OF TEMPORARY TRAFFIC CONTROL DEVICES, SIGNS, AND PAVEMENT MARKINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
11. PORTABLE-CHANGEABLE MESSAGE SIGNS SHALL BE LOCATED ON EACH SIDE OF THE BRIDGE ON RT. 26.

ABBREVIATIONS FOR ALL M.O.T. PLANS

BWLL= BROKEN WHITE LANE LINE  
 SWEL= SOLID WHITE EDGE LINE  
 SYEL= SOLID YELLOW EDGE LINE  
 TBWLL= TEMPORARY BROKEN WHITE LANE LINE  
 TDYCL= TEMPORARY DOUBLE YELLOW CENTER LINE  
 TSWEL= TEMPORARY SOLID WHITE EDGE LINE  
 TSYEL= TEMPORARY SOLID YELLOW EDGE LINE

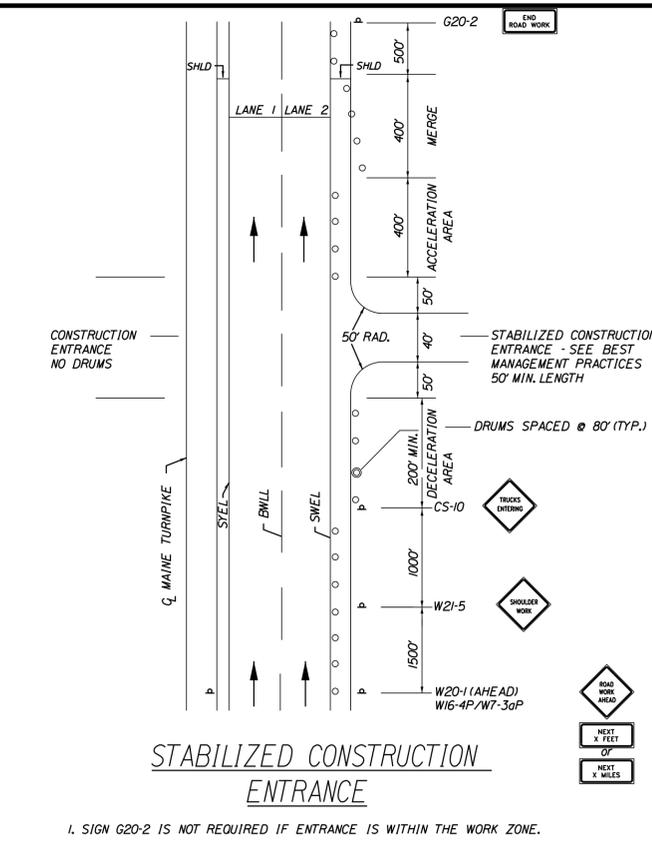
Scale: NOT TO SCALE		Designed by: <b>TYLIN INTERNATIONAL</b>		T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753		 <b>THE GOLD STAR MEMORIAL HIGHWAY</b>		NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS TRAFFIC CONTROL DETAILS - 1 OF 2																																			
<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: Daniel S. Myers		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>TSK</td> <td>1/2019</td> <td>Checked</td> <td>TSK</td> <td>1/2019</td> </tr> <tr> <td>Drawn</td> <td>MJD</td> <td>1/2019</td> <td>In Charge of</td> <td>DSM</td> <td>1/2019</td> </tr> </tbody> </table>			By	Date		By	Date	Designed	TSK	1/2019	Checked	TSK	1/2019	Drawn	MJD	1/2019	In Charge of	DSM	1/2019	MTA PROJECT MANAGER: Ralph C. Norwood, IV		SHEET NUMBER: MT-01 CONTRACT: 2019.11 6 OF 105	
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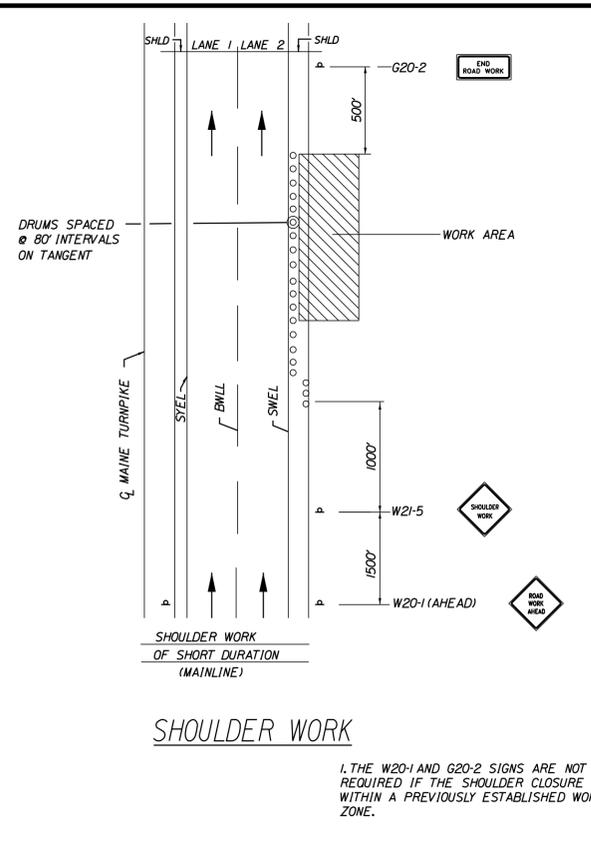
DOUBLE LANE CLOSURE (MAINLINE)

NOTE 1:  
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).



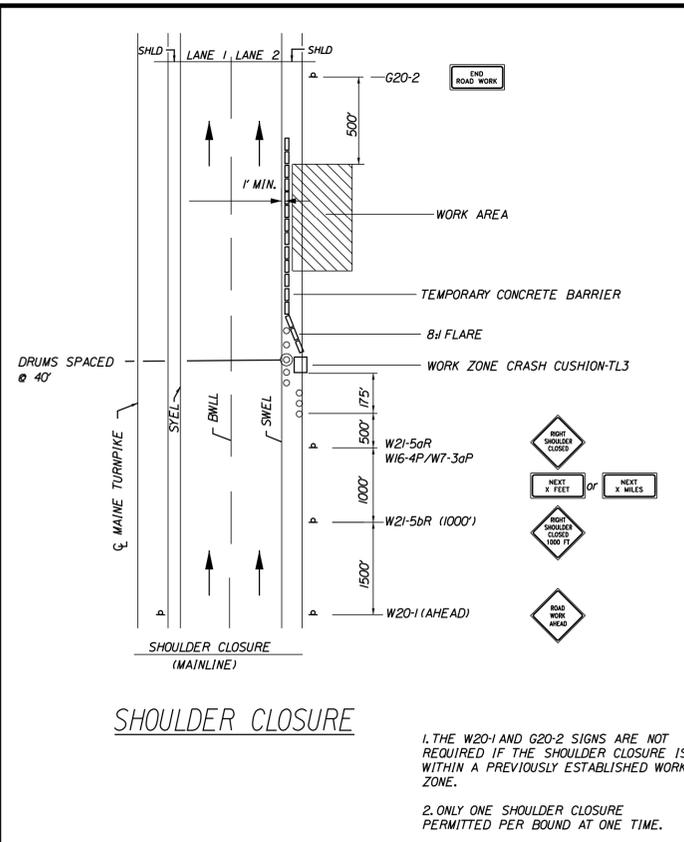
STABILIZED CONSTRUCTION ENTRANCE

1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.



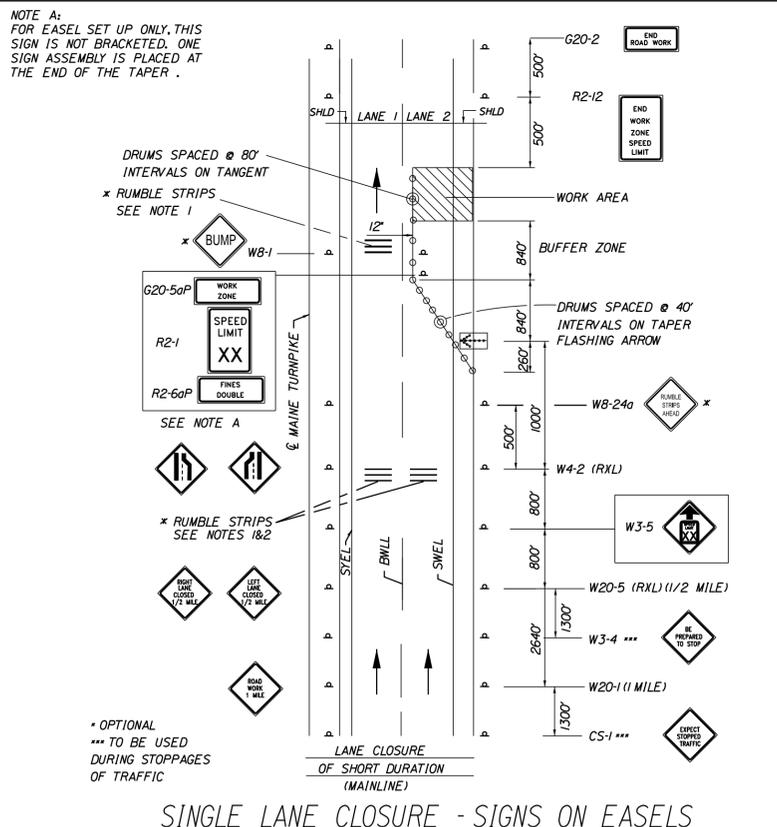
SHOULDER WORK (MAINLINE)

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



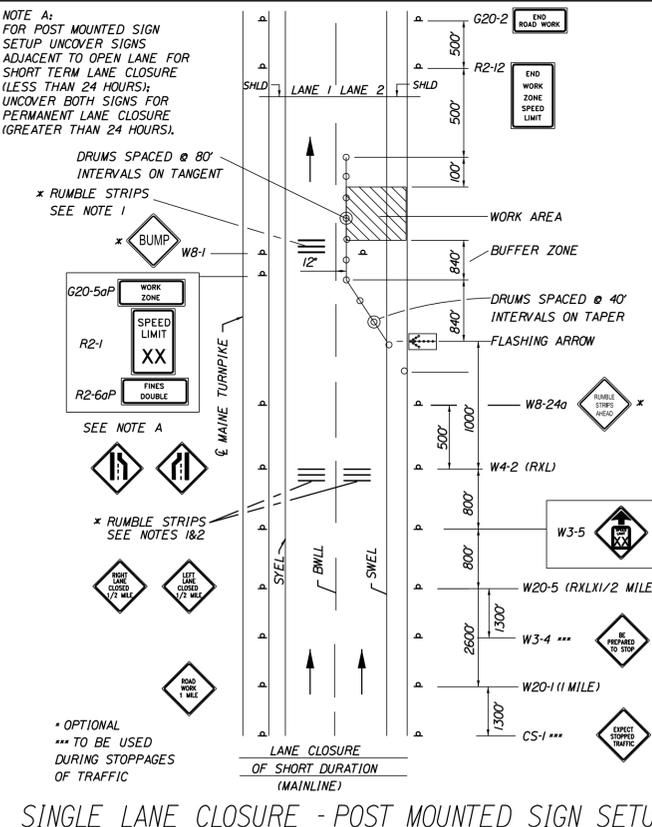
SHOULDER CLOSURE (MAINLINE)

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.  
2. ONLY ONE SHOULDER CLOSURE PERMITTED PER BOUND AT ONE TIME.



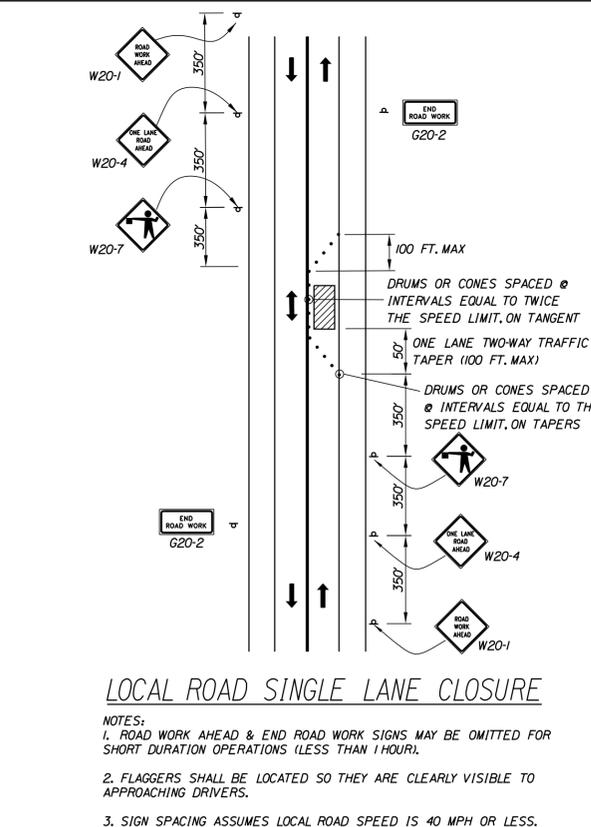
SINGLE LANE CLOSURE - SIGNS ON EASELS (MAINLINE)

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



SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP (MAINLINE)

NOTE A:  
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).



LOCAL ROAD SINGLE LANE CLOSURE

NOTES:  
1. ROAD WORK AHEAD & END ROAD WORK SIGNS MAY BE OMITTED FOR SHORT DURATION OPERATIONS (LESS THAN 1 HOUR).  
2. FLAGGERS SHALL BE LOCATED SO THEY ARE CLEARLY VISIBLE TO APPROACHING DRIVERS.  
3. SIGN SPACING ASSUMES LOCAL ROAD SPEED IS 40 MPH OR LESS.

**GENERAL MAINTENANCE OF TRAFFIC NOTES:**

- 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.
- THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE 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.
- 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 - REMOVING PAVEMENT MARKINGS.
- EXPOSED BARRIER ENDS ON THE MAINE TURNPIKE SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHION - TL-3.
- EXPOSED BARRIER ENDS ON SHAKER RD. (ROUTE 26) SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.342 - WORK ZONE CRASH CUSHION - TL-2.
- SPEED LIMIT, STOP, YIELD AND EXIT SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.

**ABBREVIATIONS FOR ALL M.O.T. PLANS**

BWLL = BROKEN WHITE LANE LINE  
SWEL = SOLID WHITE LANE LINE  
SYEL = SOLID YELLOW LANE LINE  
TBWLL = TEMPORARY BROKEN WHITE LANE LINE  
TDWEL = TEMPORARY DOTTED WHITE EDGE LINE  
TSWEL = TEMPORARY SOLID WHITE EDGE LINE  
TSWLL = TEMPORARY SOLID WHITE LANE LINE  
TSYCL = TEMPORARY SOLID YELLOW CENTER LINE

**TEMPORARY RUMBLE STRIP NOTES**

- IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:  
• ADJACENT TO THE WORK ZONE (1 UNIT)  
• UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS)  
• BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)  
WB-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF WB-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
- RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, WB-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE WB-24a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

Filename: ...XXX\_Traffic ControlDetails\_02.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed	TSK 1/2019	Checked	TSK 1/2019
Drawn	TWA 1/2019	In Charge of	DSM 1/2019

T.Y. Lin International  
12 Northbrook Drive  
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TEL: (207) 781-4721  
FAX: (207) 781-4753

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

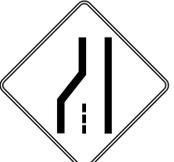
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS

TRAFFIC CONTROL DETAILS - 2 OF 2

SHEET NUMBER: MT-02  
CONTRACT: 2019.11  
9 OF 105

Date: 2/22/2019

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	36" 48"	36" 48"		7C 7C	6"		4 2	ORANGE	BLACK		9.00 (36) 16.00 (32)	
G20-2	36" 48"	18" 24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4 4	ORANGE	BLACK		4.50 (18) 8.00 (32)	
G20-5aP	36"	24"					4	ORANGE	BLACK		6.00 (24)	
R2-1 (50)	48"	60"					4	WHITE	BLACK		20.00 (80)	
R2-6aP	36"	24"					4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5 (50)	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-2L (LEFT)	48"	48"					4	ORANGE	BLACK		16.00 (64)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W8-1	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					2	ORANGE	BLACK		7.50 (15)	
W20-1 (1 MILE) (AHEAD)	48" 36" 48"	48" 36" 48"					4 4 4	ORANGE	BLACK		16.00 (64) 9.00 (36) 16.00 (64)	
W20-4 (AHEAD)	36"	36"					4	ORANGE	BLACK		9.00 (36)	
W20-5R (RIGHT)	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W20-7a	36"	36"					4	ORANGE	BLACK		9.00 (36)	

Filename: ...XXX\_MOT\_Sign\_Sum\_04\_Bennett.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	JJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD  
 M.O.T. SIGN SUMMARY 1 OF 2

SHEET NUMBER: EVR-01  
 CONTRACT: 2019.11  
 8 OF 105

Date: 2/22/2019

Filename: ...XXX\_MOT\_Sign\_Sum\_04\_Bennett.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W2I-5	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			2	ORANGE	BLACK		16.00 (32)	
W2I-5aR (RIGHT)	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W2I-5bR (RIGHT)	48"	48"					2	ORANGE	BLACK		16.00 (32)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
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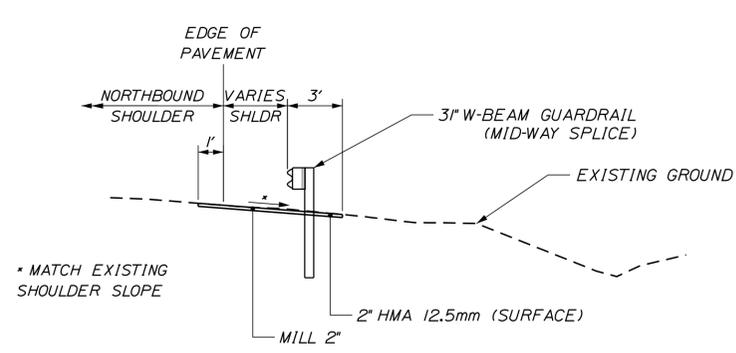
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

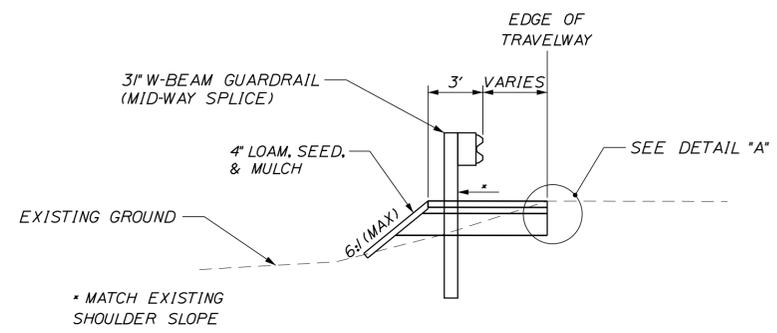
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD  
 M.O.T. SIGN SUMMARY 2 OF 2

SHEET NUMBER: EVR-02  
 CONTRACT: 2019.11  
 9 OF 105

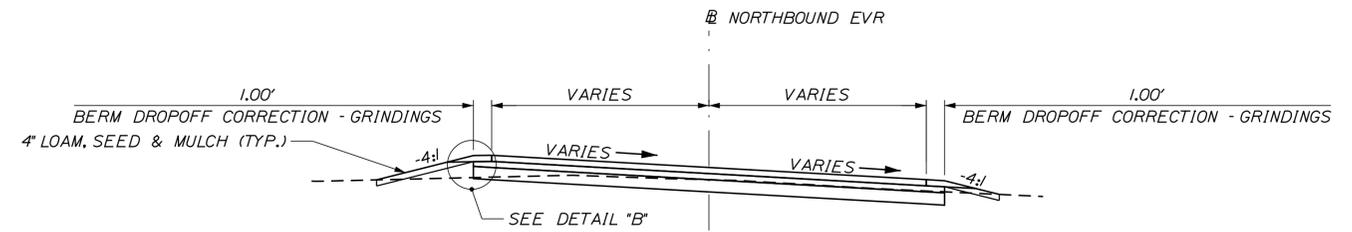
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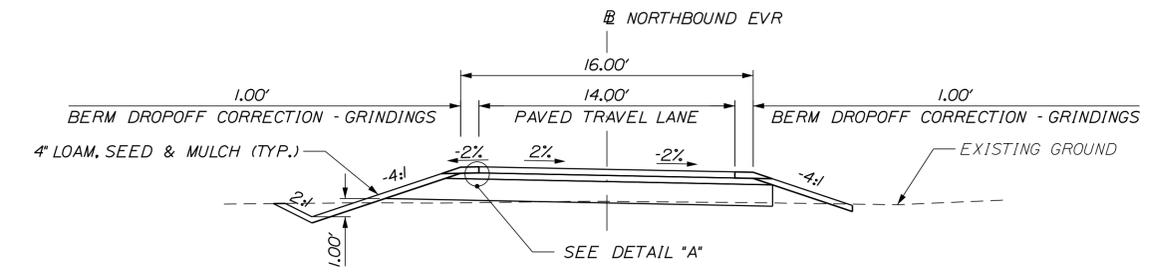
**NORTHBOUND EVR GUARDRAIL SECTION**  
AT TURNPIKE (NORTHBOUND) LOOKING NORTH  
(NTS)



**NORTHBOUND EVR GUARDRAIL SECTION**  
AT BENNETT ROAD LOOKING WEST  
(NTS)



**NORTHBOUND EVR TYPICAL SECTION**  
STA. 14+10 TO STA. 15+12  
(NTS)



**NORTHBOUND EVR TYPICAL SECTION**  
STA. 10+07 TO STA. 14+10  
(NTS)

**NOTES:**

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER TO LEAVE A CLEAN, VERTICAL FACE.
3. 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.
4. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAW CUT AND PAVEMENT JOINTS PRIOR TO PAVING.
6. SEE BENNETT ROAD EVR (MILE 68.6) TYPICAL SECTIONS SHEET 2 OF 2 FOR "DETAIL A" AND "DETAIL B".

Filename: ... \HIGHWAY\MSTA\XXX - Typicals.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	TSK	1/2019	Checked	TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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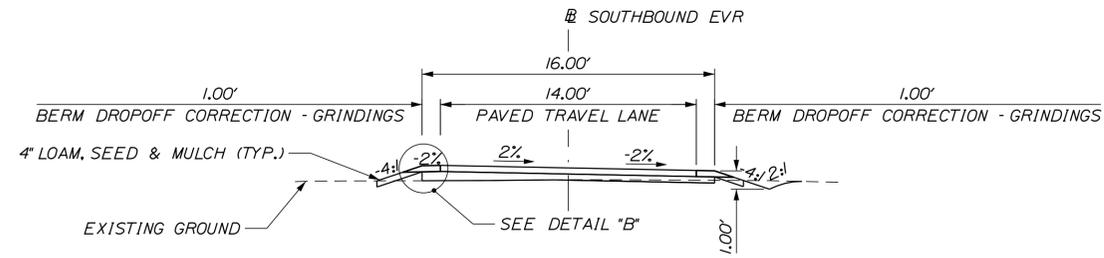
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

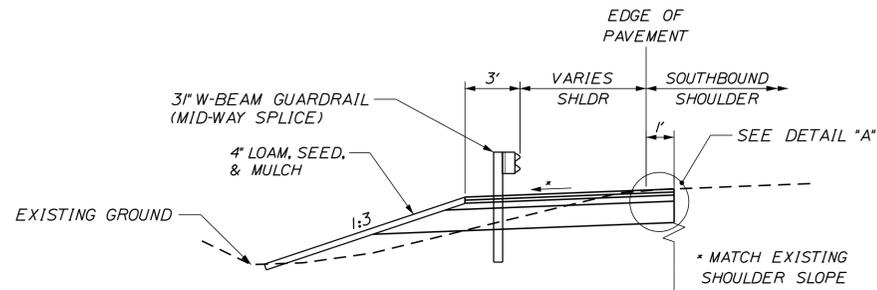
NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
BENNETT ROAD EVR (MILE 68.6)  
TYPICAL SECTIONS SHEET 1 OF 2

SHEET NUMBER: EVR-03  
CONTRACT: 2019.11  
10 OF 105

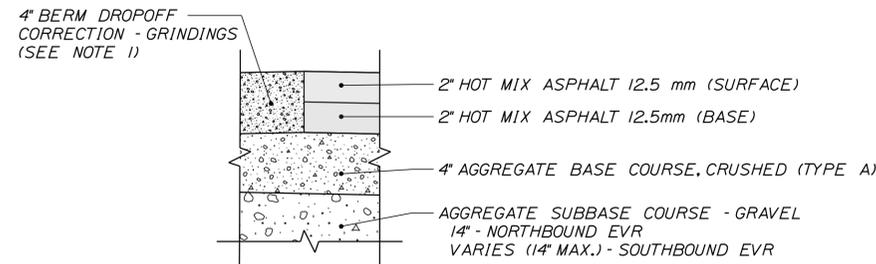
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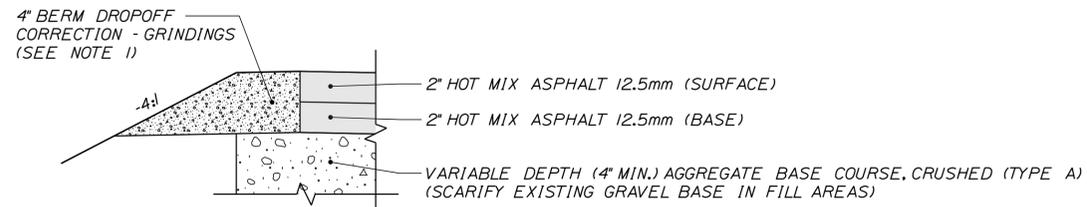
**SOUTHBOUND EVR TYPICAL SECTION**  
(NTS)



**SOUTHBOUND EVR GUARDRAIL SECTION**  
AT TURNPIKE (SOUTHBOUND) LOOKING NORTH  
(NTS)



**DETAIL "A"**  
(NTS)



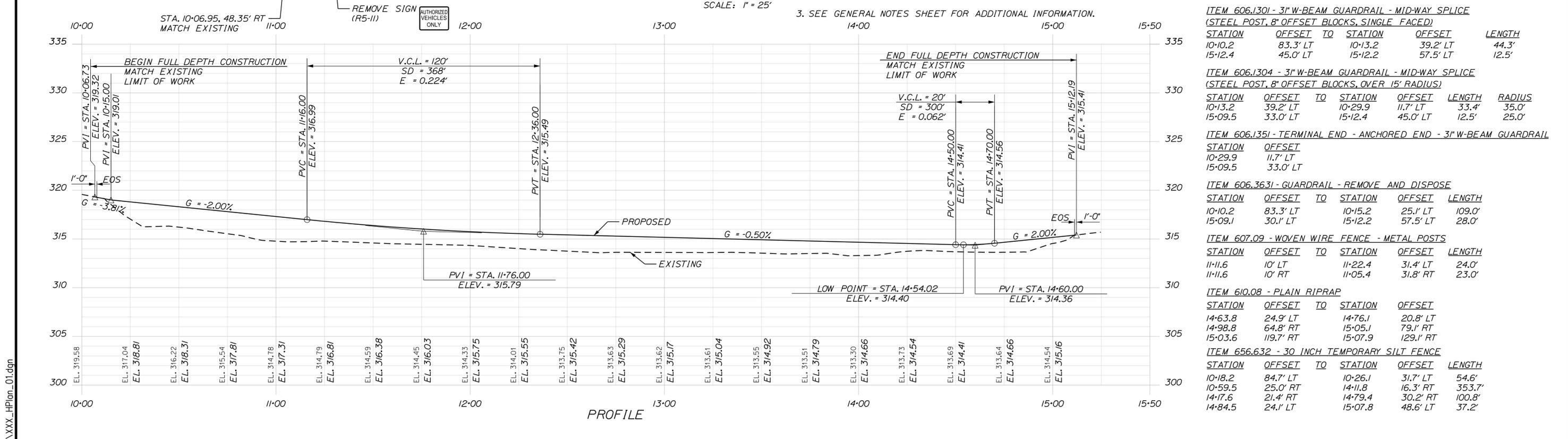
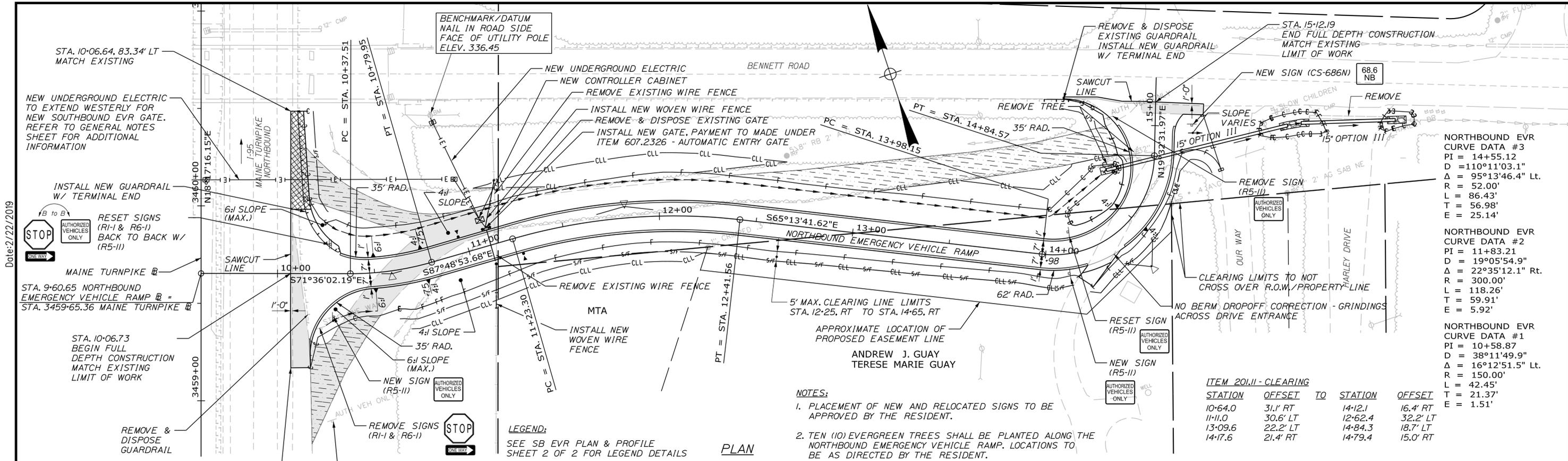
**DETAIL "B"**  
(NTS)

**NOTES:**

1. WILL BE MEASURED AND PAID FOR UNDER ITEM 470.08 BERM DROP OFF CORRECTION - GRINDING.
2. SEE BENNETT ROAD EVR (MILE 68.6) TYPICAL SECTIONS SHEET 1 OF 2 FOR NOTES.

Filename: ... \HIGHWAY\MSTA\XXX -Typicals.dgn

Scale: AS NOTED		Designed by: <b>TYLIN INTERNATIONAL</b>		T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753		 <b>THE GOLD STAR MEMORIAL HIGHWAY</b>		NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS BENNETT ROAD EVR (MILE 68.6) TYPICAL SECTIONS SHEET 2 OF 2 SHEET NUMBER: EVR-04																											
<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: Daniel S. Myers <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>TSK 1/2019</td> <td>Checked</td> <td>TSK 1/2019</td> </tr> <tr> <td>Drawn</td> <td>MJD 1/2019</td> <td>In Charge of</td> <td>DSM 1/2019</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	TSK 1/2019	Checked	TSK 1/2019	Drawn	MJD 1/2019	In Charge of	DSM 1/2019	MTA PROJECT MANAGER: Ralph C. Norwood, IV		CONTRACT: 2019.11 11 OF 105	
No.	Revision	By	Date																																
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Designed	TSK 1/2019	Checked	TSK 1/2019																																
Drawn	MJD 1/2019	In Charge of	DSM 1/2019																																



**ITEM 2011 - CLEARING**

STATION	OFFSET	TO	STATION	OFFSET
10+64.0	31.1' RT	14+12.1	16.4' RT	
11+11.0	30.6' LT	12+62.4	32.2' LT	
13+09.6	22.2' LT	14+84.3	18.7' LT	
14+17.6	21.4' RT	14+79.4	15.0' RT	

**ITEM 606.1301 - 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
10+10.2	83.3' LT	10+13.2	39.2' LT	44.3'	
15+12.4	45.0' LT	15+12.2	57.5' LT	12.5'	

**ITEM 606.1304 - 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH	RADIUS
10+13.2	39.2' LT	10+29.9	11.7' LT	33.4'	35.0'	
15+09.5	33.0' LT	15+12.4	45.0' LT	12.5'	25.0'	

**ITEM 606.1351 - TERMINAL END - ANCHORED END - 3" W-BEAM GUARDRAIL**

STATION	OFFSET
10+29.9	11.7' LT
15+09.5	33.0' LT

**ITEM 606.3631 - GUARDRAIL - REMOVE AND DISPOSE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
10+10.2	83.3' LT	10+15.2	25.1' LT	109.0'	
15+09.1	30.1' LT	15+12.2	57.5' LT	28.0'	

**ITEM 607.09 - WOVEN WIRE FENCE - METAL POSTS**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
11+11.6	10' LT	11+22.4	31.4' LT	24.0'	
11+11.6	10' RT	11+05.4	31.8' RT	23.0'	

**ITEM 610.08 - PLAIN RIPRAP**

STATION	OFFSET	TO	STATION	OFFSET
14+63.8	24.9' LT	14+76.1	20.8' LT	
14+98.8	64.8' RT	15+05.1	79.1' RT	
15+03.6	119.7' RT	15+07.9	129.1' RT	

**ITEM 656.632 - 30 INCH TEMPORARY SILT FENCE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
10+18.2	84.7' LT	10+26.1	31.7' LT	54.6'	
10+59.5	25.0' RT	14+11.8	16.3' RT	353.7'	
14+17.6	21.4' RT	14+79.4	30.2' RT	100.8'	
14+84.5	24.1' LT	15+07.8	48.6' LT	37.2'	

Scale: 50 0 50 100

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

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Drawn	MJD 1/2019	In Charge of	DSM 1/2019

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

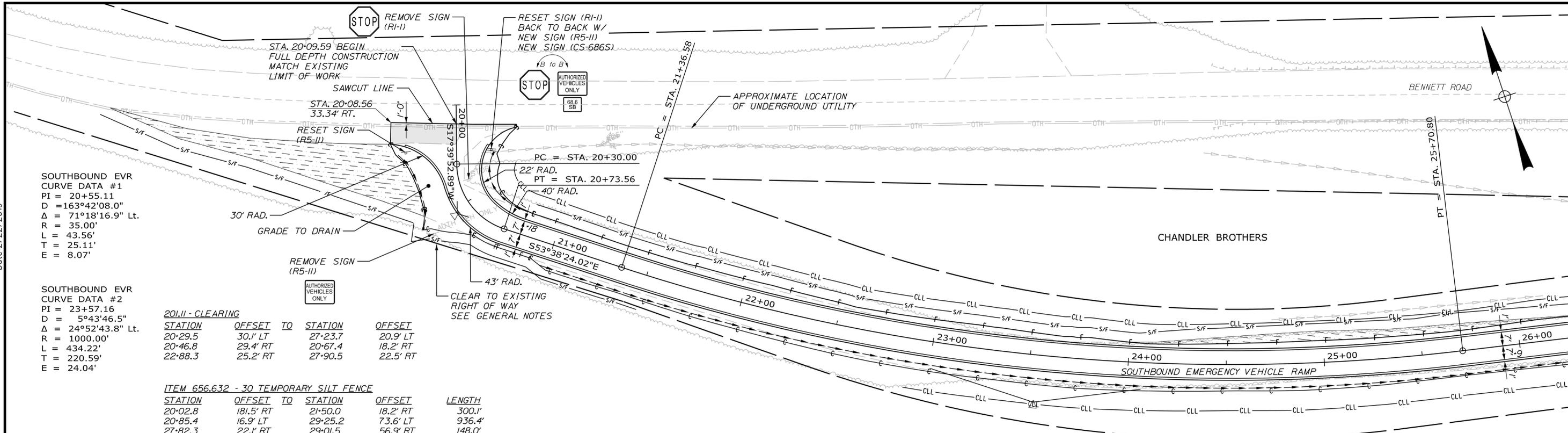
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 NORTHBOUND EVR PLAN & PROFILE

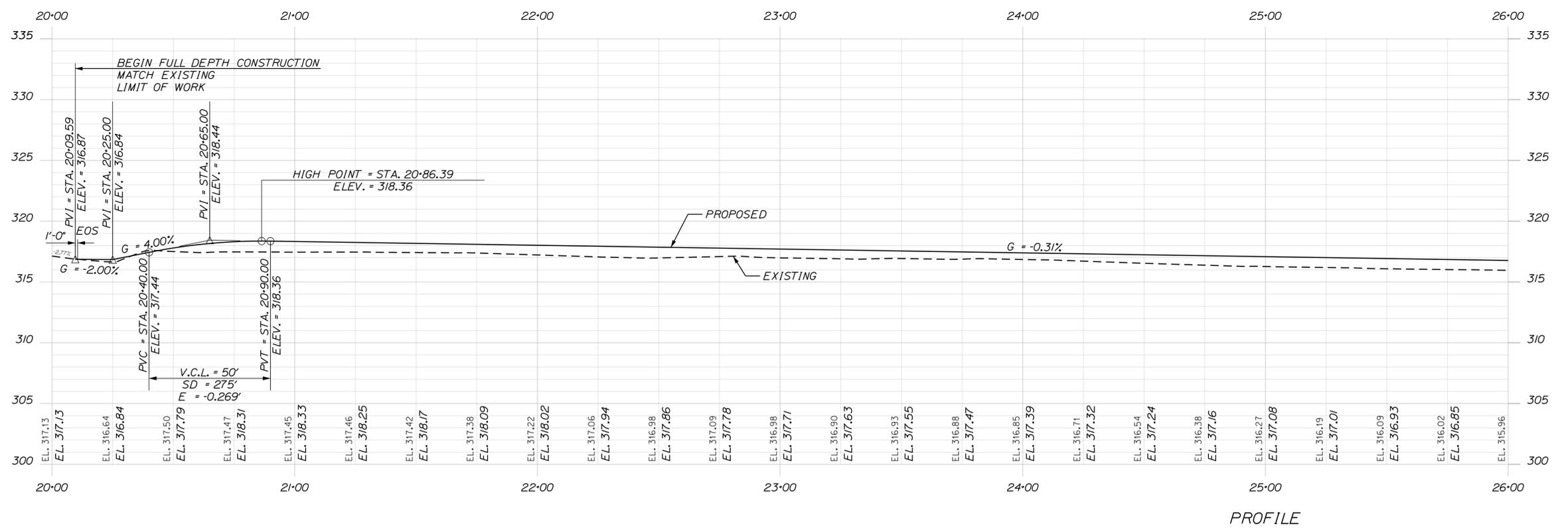
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 CONTRACT: 2019.11  
 12 OF 105

Date: 2/22/2019  
 Filename: ... \HIGHWAY\MSTAVXX\_HPlan\_01.dgn

Date: 2/22/2019



PLAN  
SCALE: 1" = 25'



Scale: 50 0 50 100

No.	Revision	By	Date

Designed by:

**TY-LIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 SB EVR PLAN & PROFILE SHEET 1 OF 2  
 SHEET NUMBER: EVR-06

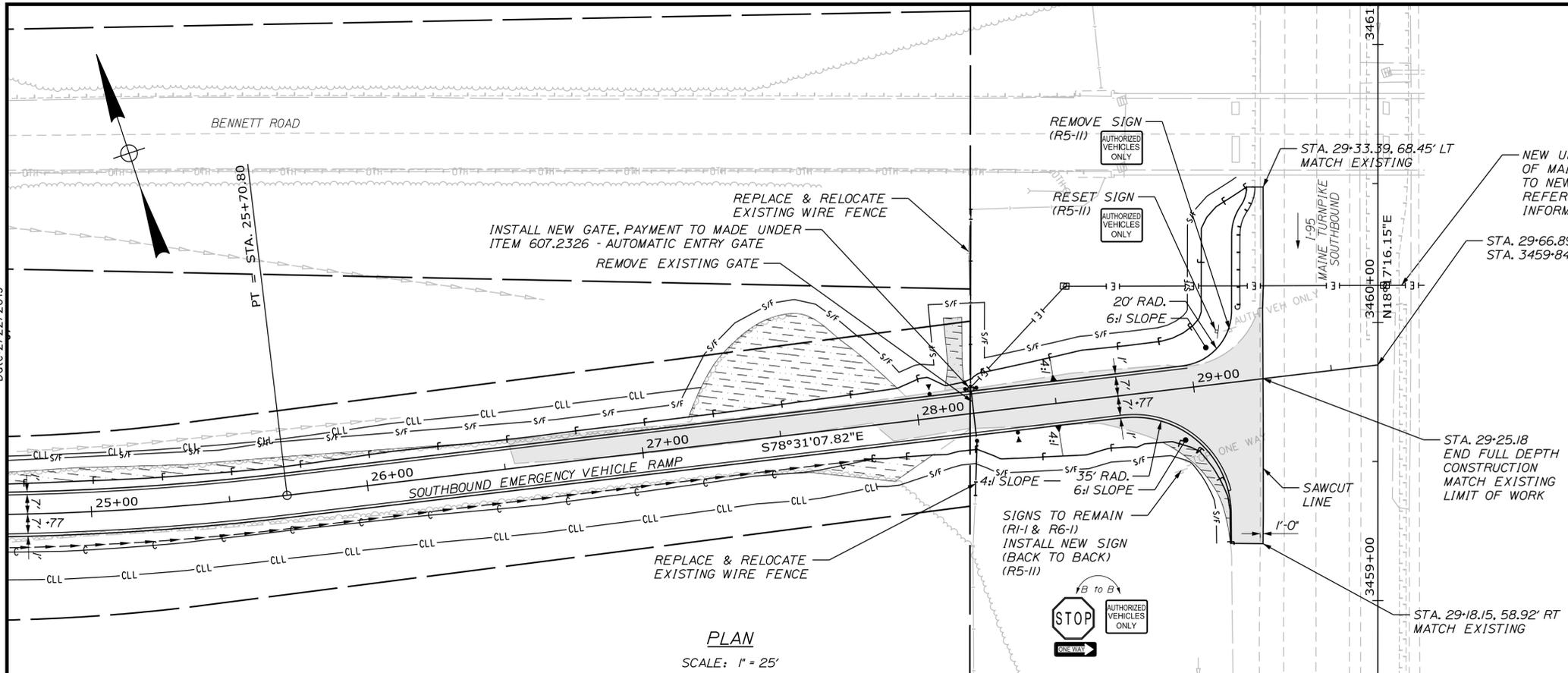
CONTRACT: 2019.11

13 OF 105

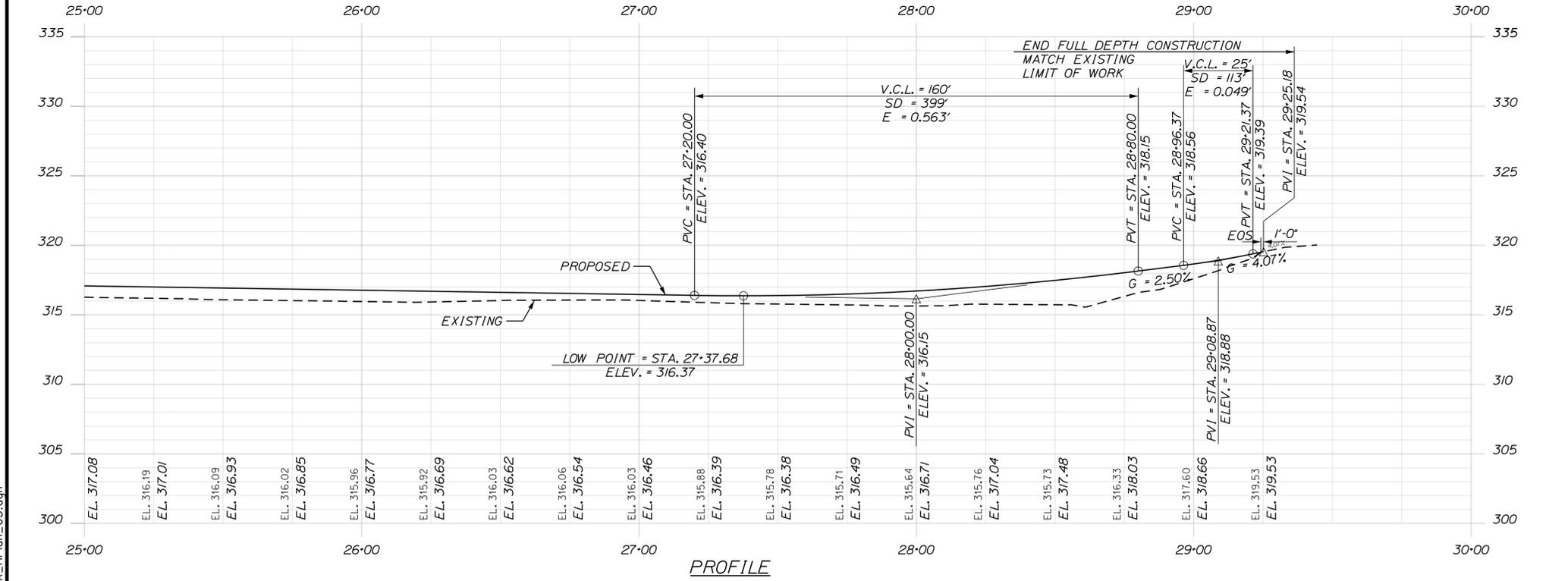
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Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_HPlan\_03.dgn



**PLAN**  
SCALE: 1" = 25'



**PROFILE**

- LEGEND:**
- REMOVE EXISTING PAVEMENT
  - LOAM, SEED & MULCH
  - 2" MILL AND FILL
  - AUTOMATIC ENTRY GATE
  - BOLLARD
  - CARD READER
  - JUNCTION BOX
  - CONTROLLER CABINET

- NOTES:**
- PLACEMENT OF NEW AND RELOCATED SIGNS TO BE APPROVED BY THE RESIDENT.
  - FOR BENCHMARK/DATUM INFORMATION SEE BENNETT ROAD EVR (MILE 68.6) NB EVR PLAN & PROFILE SHEET.
  - SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION.

**2011 - CLEARING**

STATION	OFFSET	TO	STATION	OFFSET
20+29.5	30.1' LT		27+23.7	20.9' LT
22+88.3	25.2' RT		27+90.5	22.5' RT

**ITEM 656.632 - 30 TEMPORARY SILT FENCE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
20+85.4	16.9' LT		29+25.2	73.6' LT	936.4'
27+82.3	22.1' RT		29+01.5	56.9' RT	148.0'

**ITEM 606.1301 - 31\"/>

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
29+20.07	27.6' LT		29+23.04	52.4' LT	25'

**ITEM 606.1303 - 31\"/>

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
29+23.04	52.4' LT		29+26.74	60.6' LT	9'
29+26.74	60.6' LT		29+30.45	68.9' LT	9'

**ITEM 606.1351 - TERMINAL END - ANCHORED END - 31\"/>

STATION	OFFSET
29+20.07	27.6' LT

**ITEM 606.3631 - GUARDRAIL - REMOVE AND DISPOSE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
29+25.69	28.1' LT		29+30.45	68.9' LT	41'

**ITEM 607.09 - WOVEN WIRE FENCE - METAL POSTS**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
28+20.00	10' LT		28+27.80	72.9' LT	63'
28+20.00	10' RT		28+17.20	29.4' RT	20'

Scale: 50 0 50 100

No.	Revision	By	Date

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**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS

BENNETT ROAD EVR (MILE 68.6)

SB EVR PLAN & PROFILE SHEET 2 OF 2

SHEET NUMBER: EVR-07

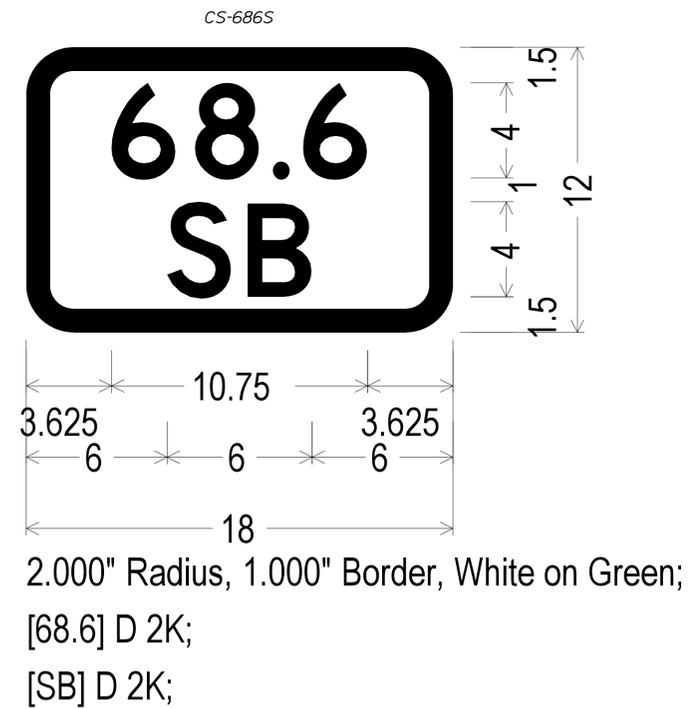
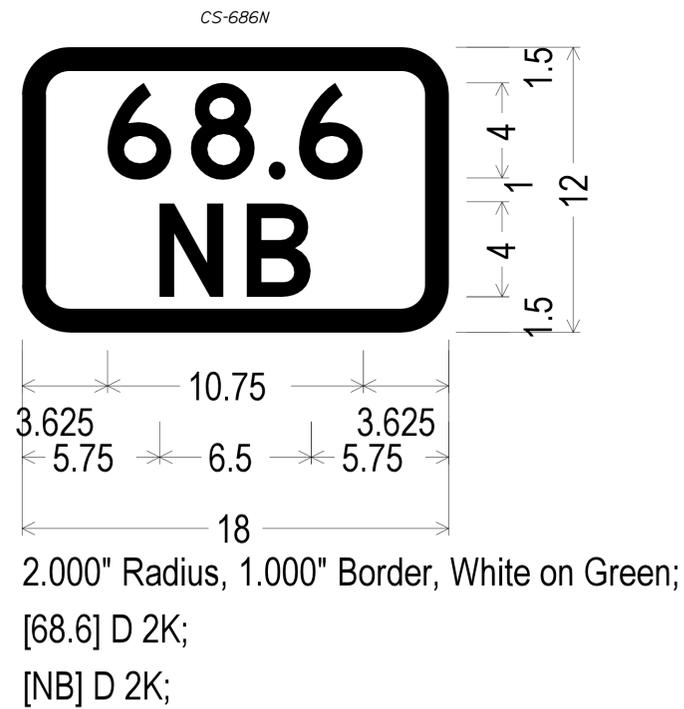
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14 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_Sign\_Sum\_Bennett.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-686N	18"	12"	68.6 NB	4D 4D	/		1	GREEN	WHITE		1.50 (1.50)	SEE DETAIL THIS SHEET
CS-686S	18"	12"	68.6 SB	4D 4D	/		1	GREEN	WHITE		1.50 (1.50)	SEE DETAIL THIS SHEET
R5-II	36"	24"	AUTHORIZED VEHICLES ONLY	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	WHITE	BLACK		6.00 (24)	



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	JJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

T.Y. Lin International  
12 Northbrook Drive  
Building A, Suite One  
Falmouth, Maine 04105  
TEL: (207) 781-4721  
FAX: (207) 781-4753

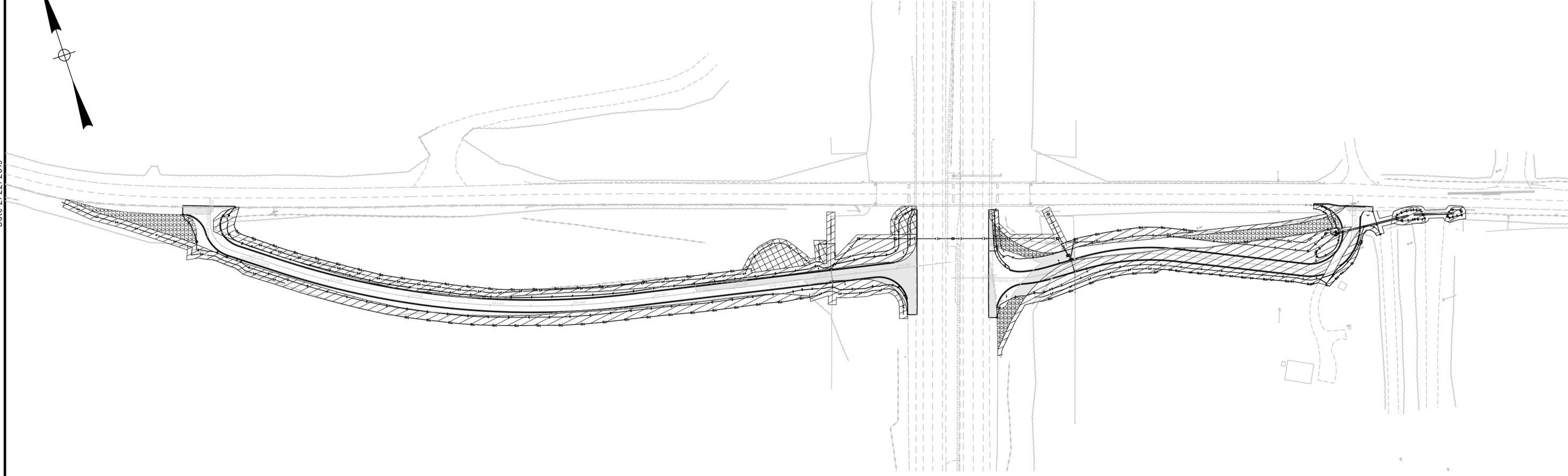
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
BENNETT ROAD  
SIGN SUMMARY

SHEET NUMBER: EVR-08  
CONTRACT: 2019.11  
15 OF 105

Date: 2/22/2019



LIMIT OF DISTURBANCE PLAN - BENNETT ROAD

**LEGEND:**

-  CONTRACT LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE
-  AREA CURRENTLY SURFACED THAT WILL BE VEGETATED IN FINAL CONDITION

**AREAS:**

CONTRACT LIMIT OF DISTURBANCE:

BENNETT ROAD = 1.05 ACRES

CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:

BENNETT ROAD = 0.08 ACRES

**NOTES:**

1. EROSION AND SEDIMENT 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 INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Filename: ... \MSTA\XXX\_LODPlan\_Bennett.dgn

Scale:			
No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

Designed	By	Date	Checked	By	Date
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

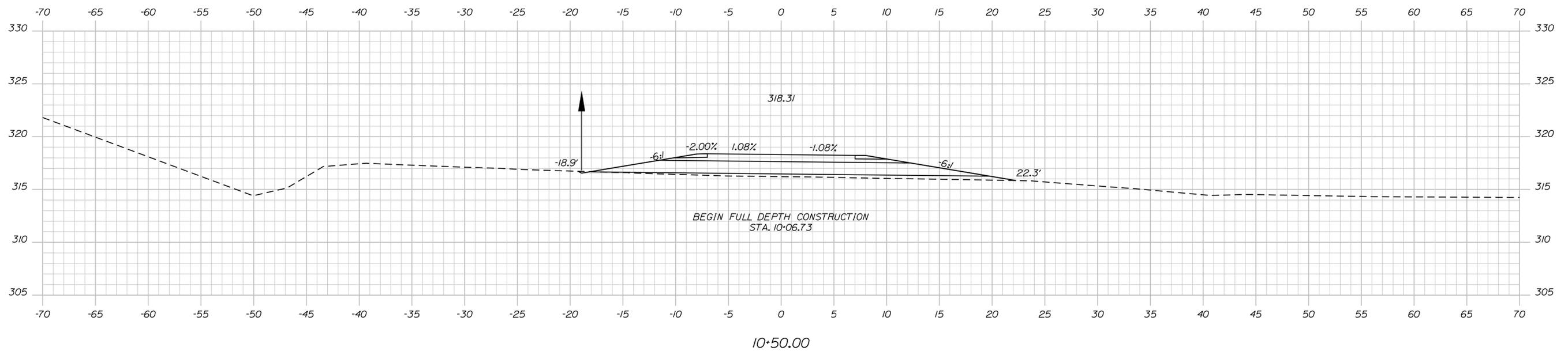
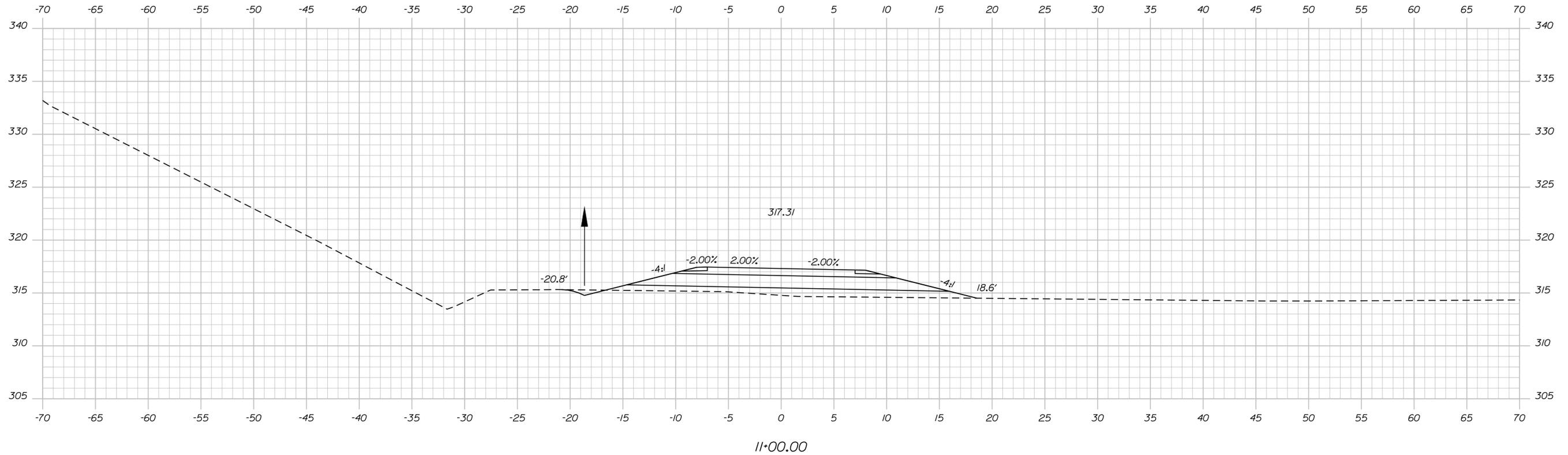
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 LIMIT OF DISTURBANCE

SHEET NUMBER: EVR-08  
 CONTRACT: 2019.11  
 16 OF 105

Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

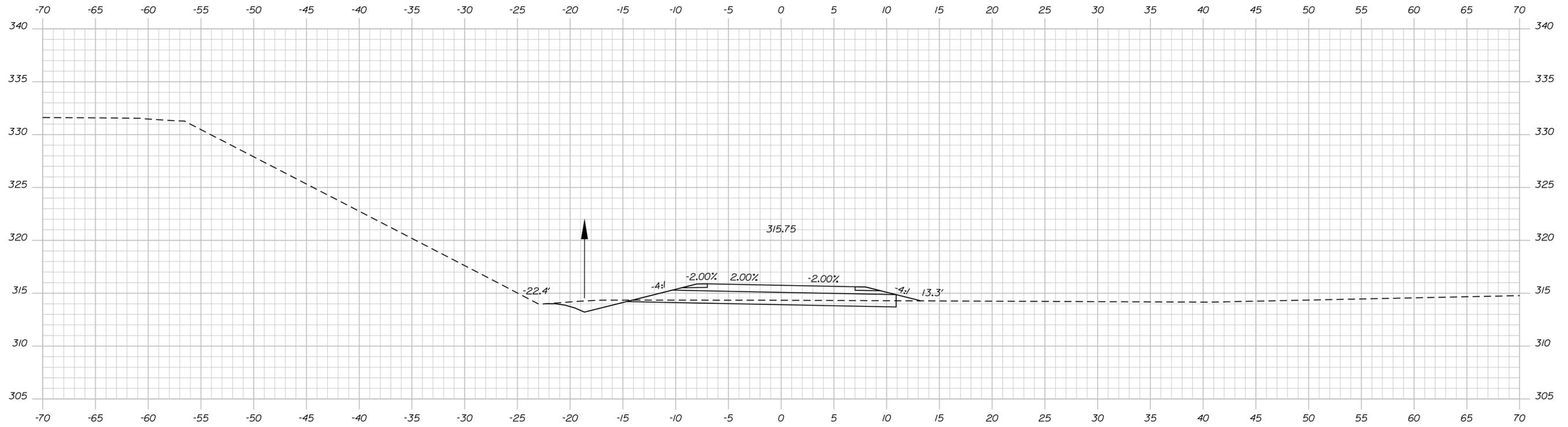
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS NORTHBOUND

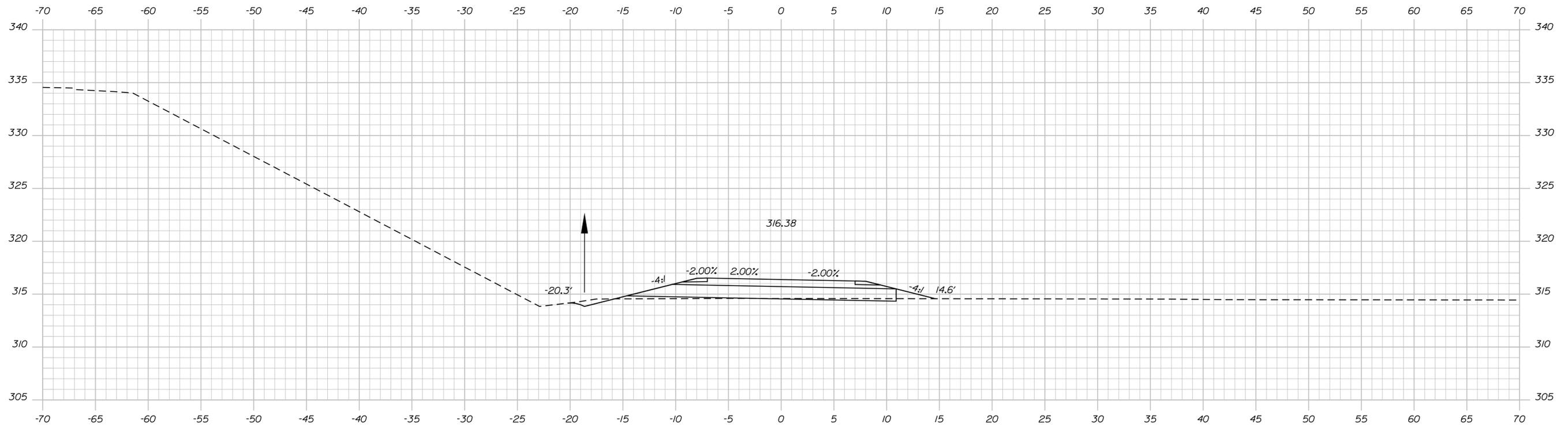
SHEET NUMBER: EVR-09  
 CONTRACT: 2019.11  
 17 OF 105

Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



12+00.00



11+50.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

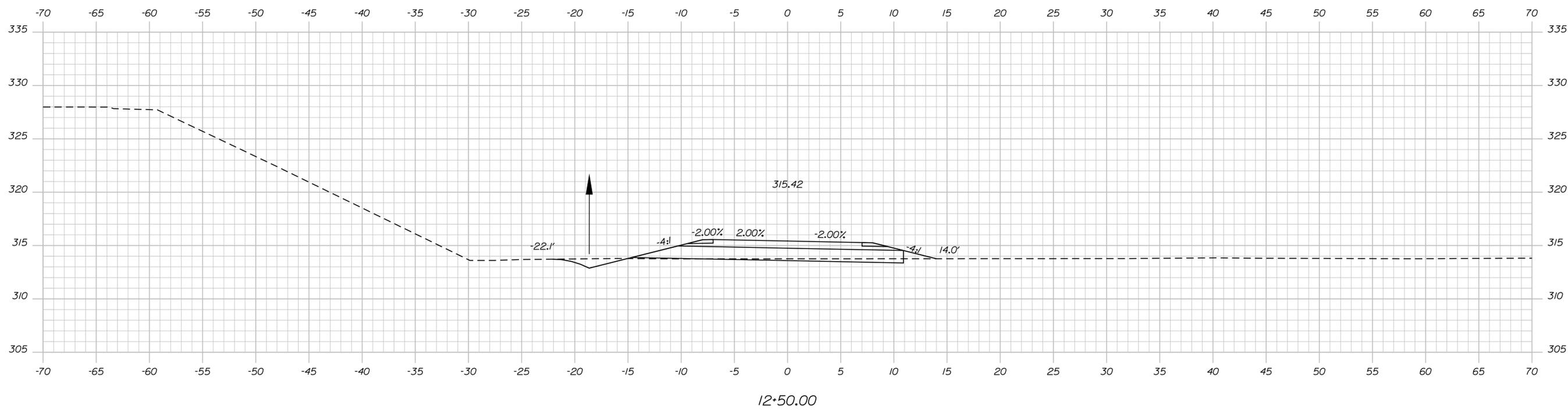
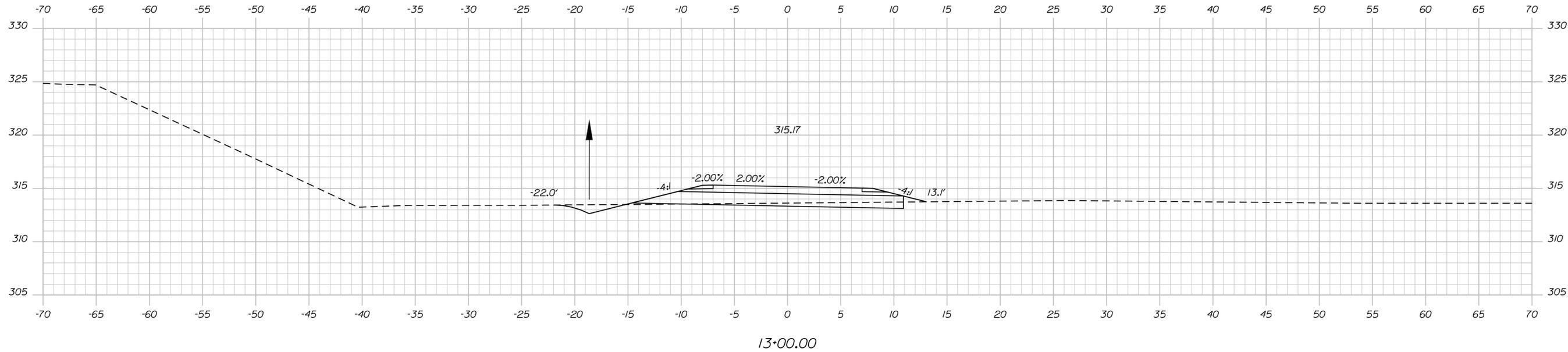
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS NORTHBOUND

SHEET NUMBER: EVR-010  
 18 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

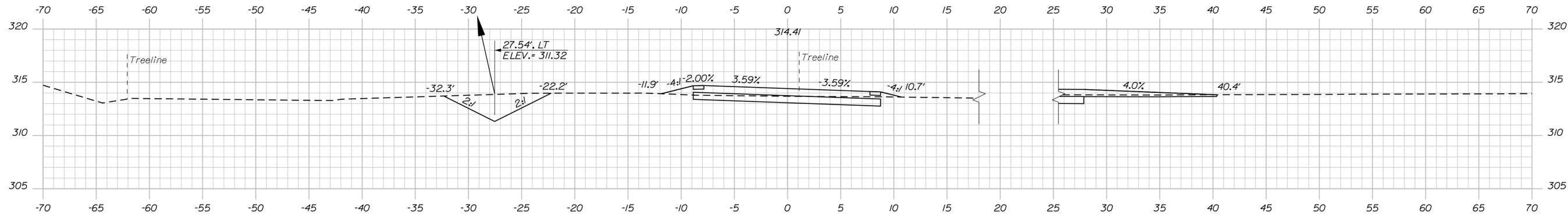
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS NORTHBOUND

SHEET NUMBER: EVR-11  
 CONTRACT: 2019.11  
 19 OF 105

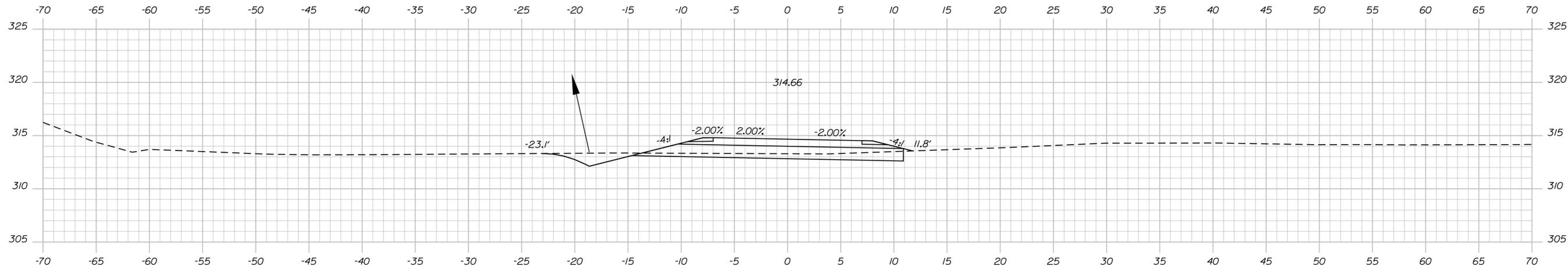
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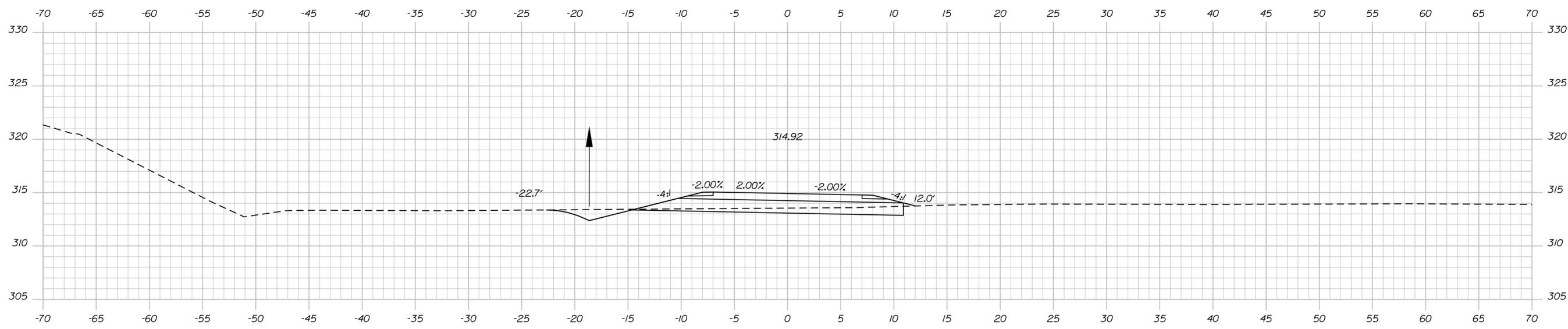


14+50.00

14+50.00  
DRIVE, SEVERE SKEW, BACK RIGHT



14+00.00



13+50.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

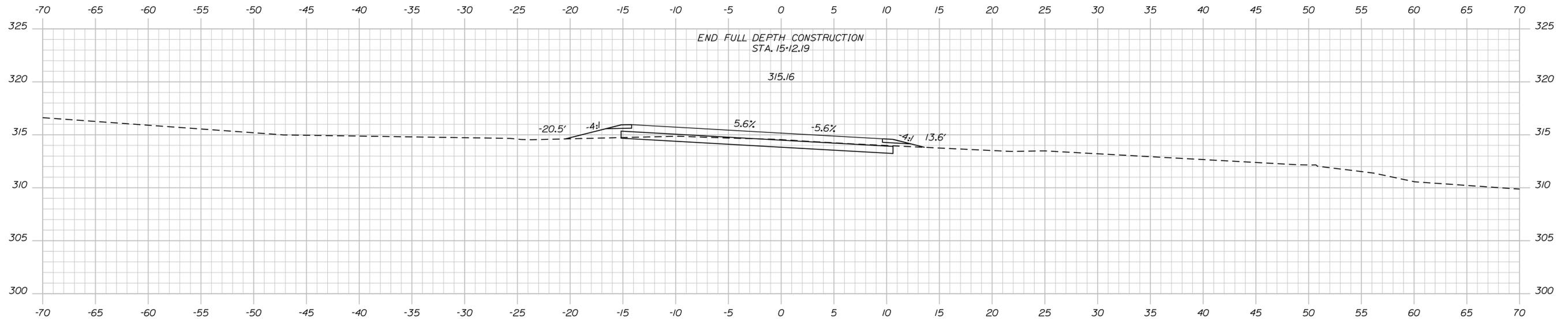
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS NORTHBOUND

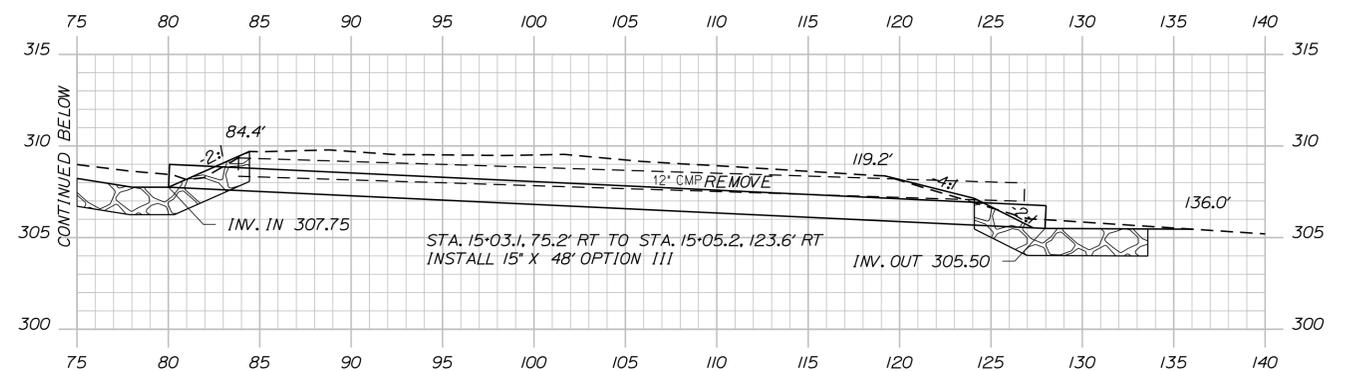
SHEET NUMBER: EVR-12  
 CONTRACT: 2019.11  
 20 OF 105

Date: 2/22/2019

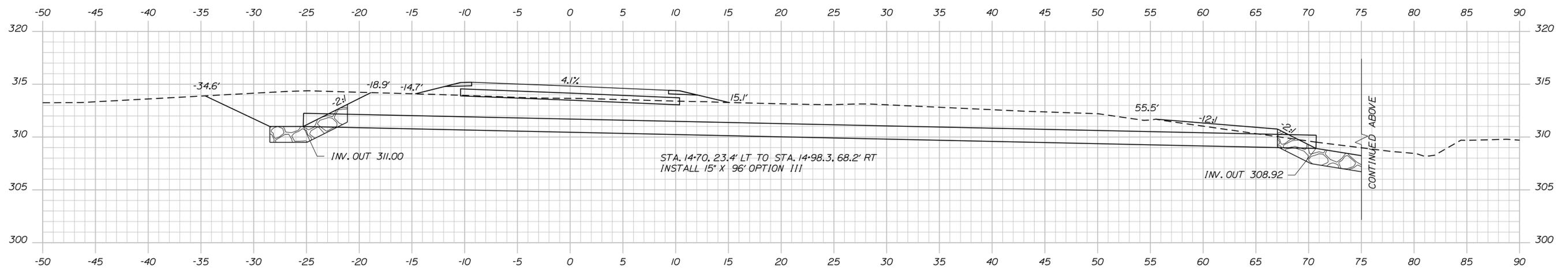
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15+00.00



14+83.25 (Continued)



14+83.25, Along Culvert Line

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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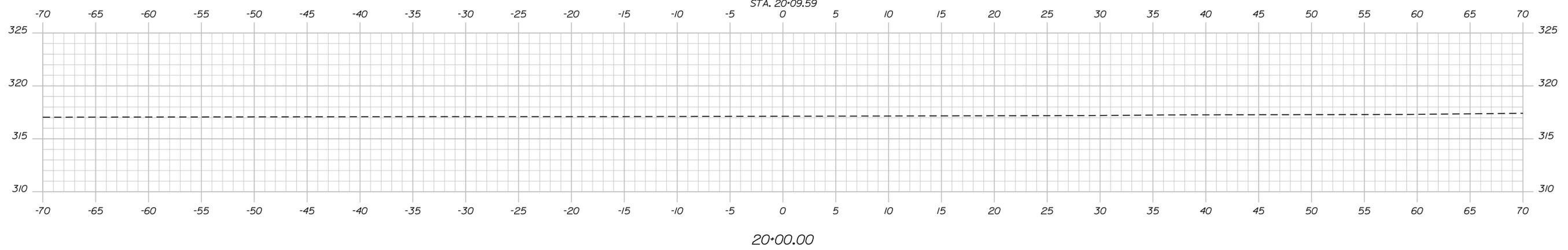
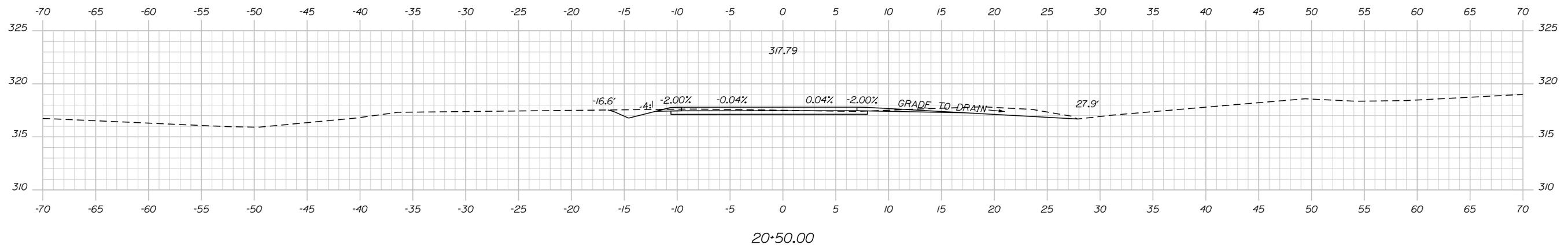
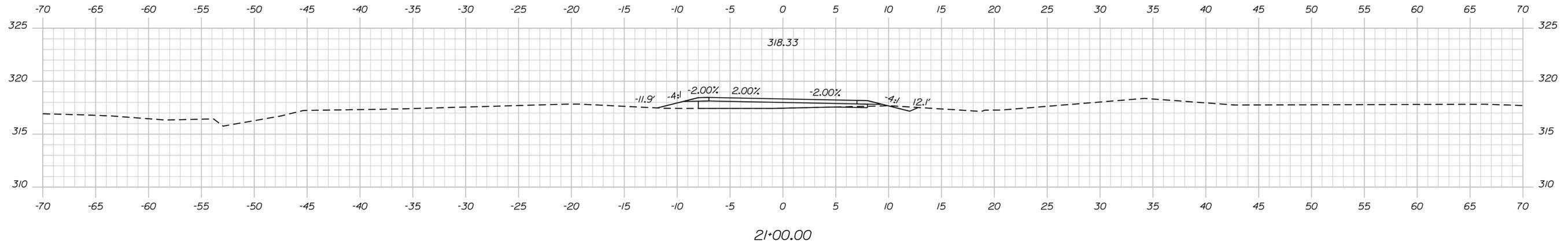
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS NORTHBOUND

SHEET NUMBER: EVR-13  
 CONTRACT: 2019.11  
 21 OF 105

Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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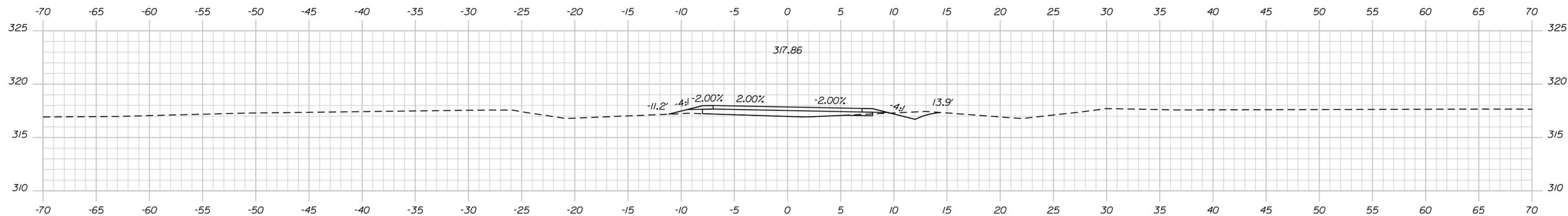
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

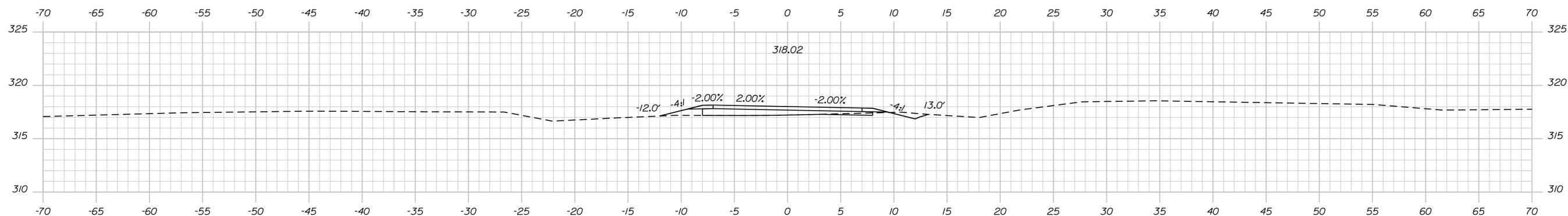
SHEET NUMBER: EVR-14  
 CONTRACT: 2019.11  
 22 OF 105

Date: 2/22/2019

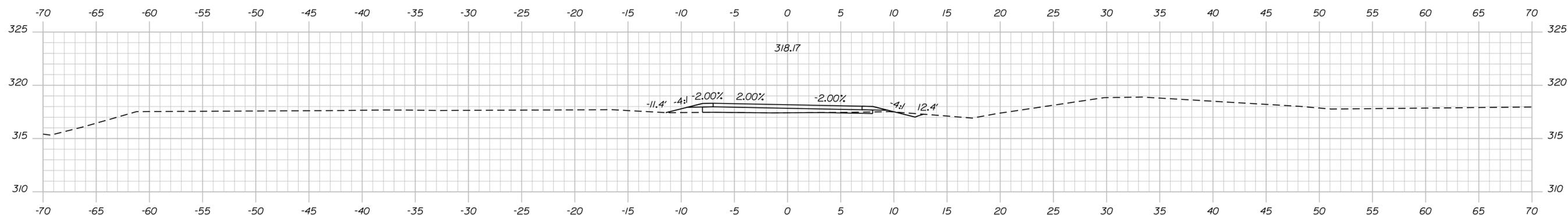
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22+50.00



22+00.00



21+50.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TY-LIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TSK	1/2019	Checked	TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

CONTRACT: 2019.11

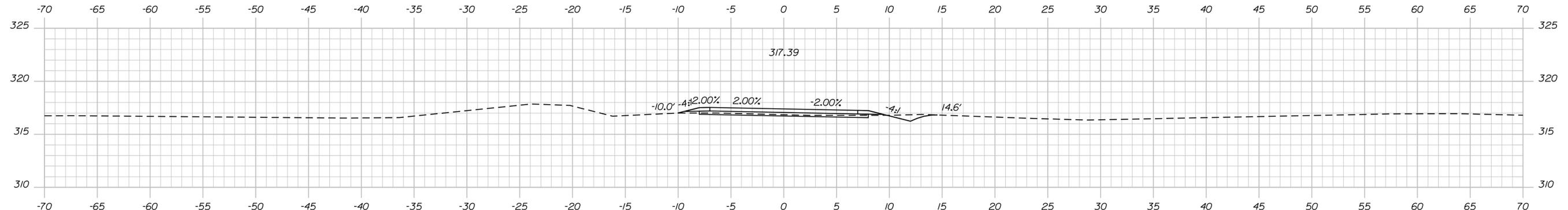
SHEET NUMBER: EVR-15

23 OF 105

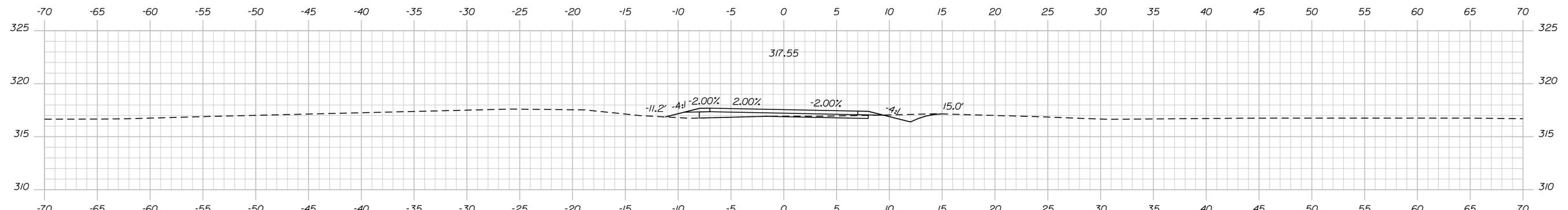
Sta. 21+50.00 to Sta. 22+50.00

Date: 2/22/2019

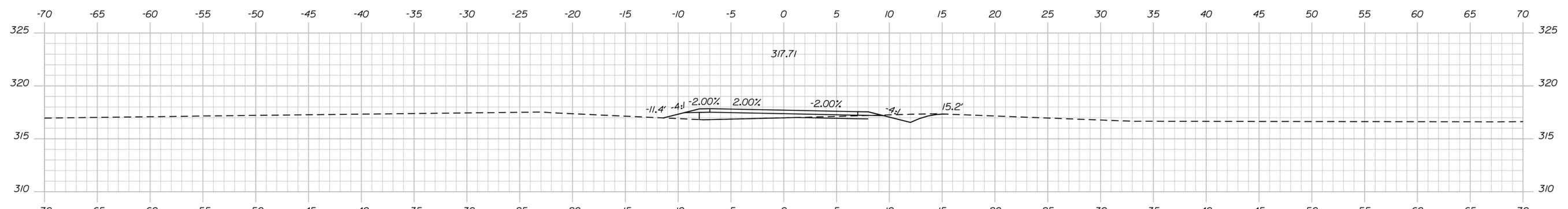
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24+00.00



23+50.00



23+00.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

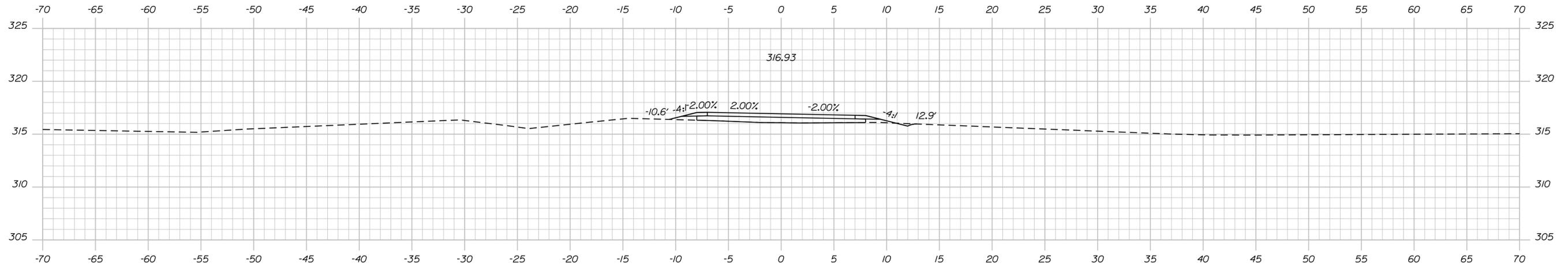
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

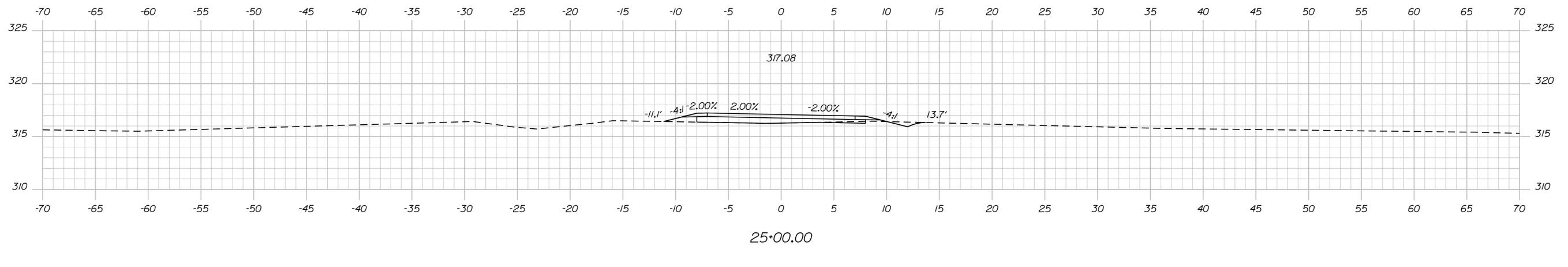
SHEET NUMBER: EVR-16  
 CONTRACT: 2019.11  
 24 OF 105

Date: 2/22/2019

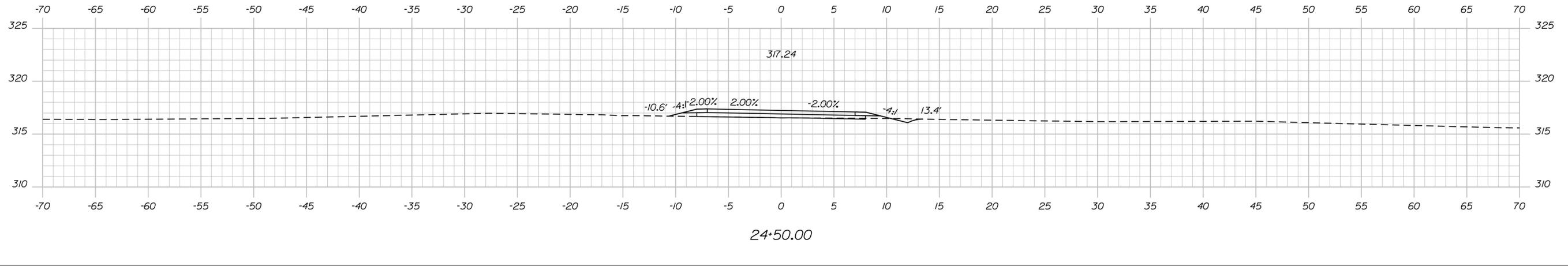
Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



25+50.00



25+00.00



24+50.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TSK	1/2019	Checked	TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

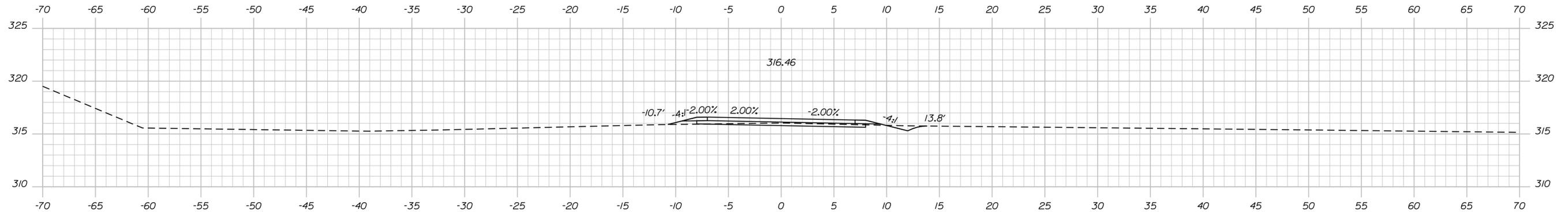
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

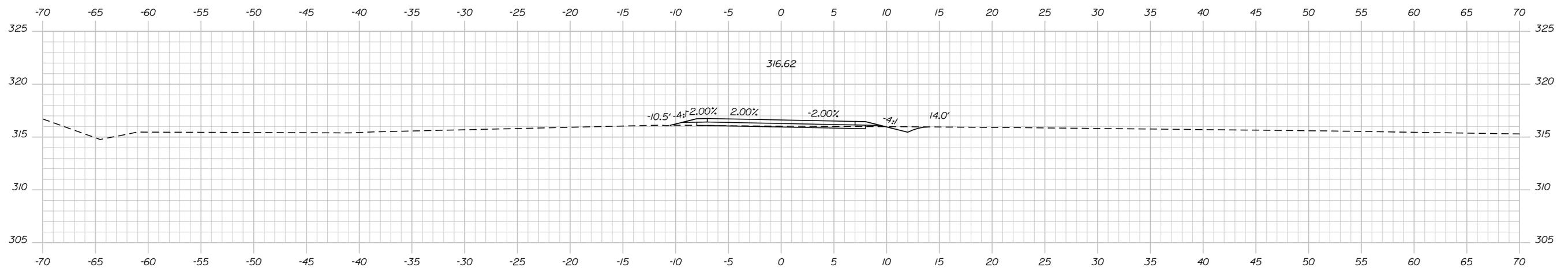
SHEET NUMBER: EVR-17  
 CONTRACT: 2019.11  
 25 OF 105

Date: 2/22/2019

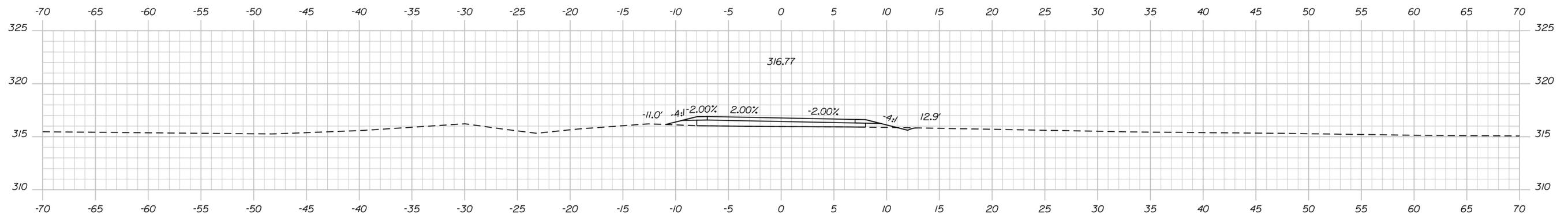
Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



27+00.00



26+50.00



26+00.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

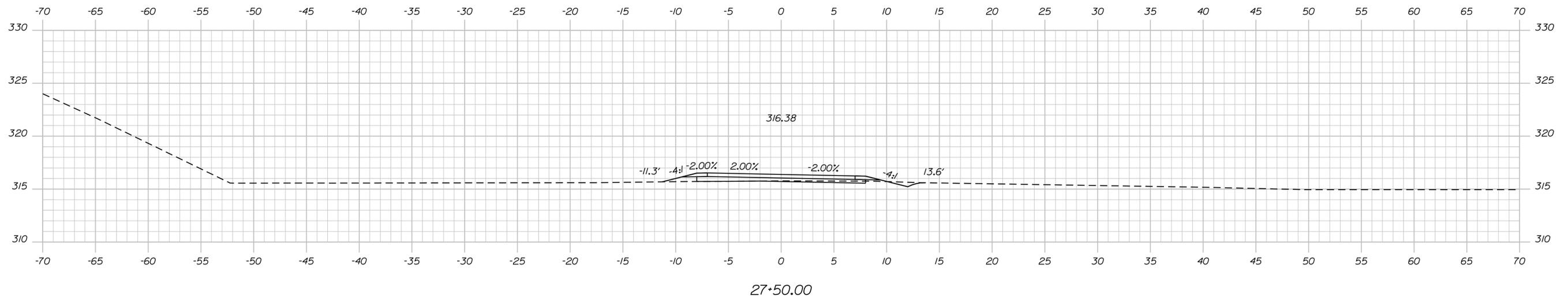
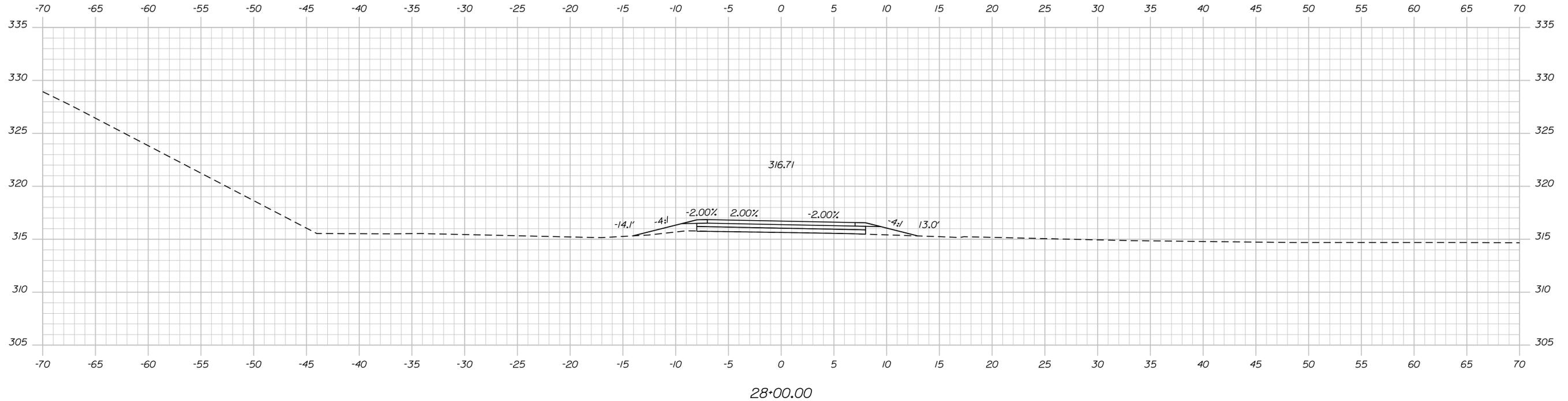
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

SHEET NUMBER: EVR-18  
 CONTRACT: 2019.11  
 26 OF 105

Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TSK	1/2019	Checked	TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

CONTRACT: 2019.11

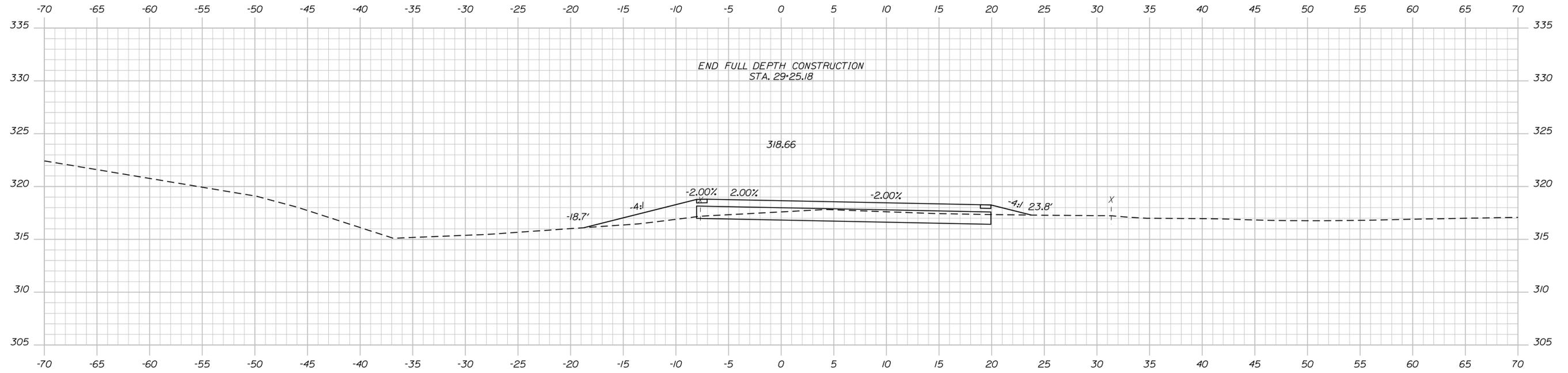
SHEET NUMBER: EVR-19

27 OF 105

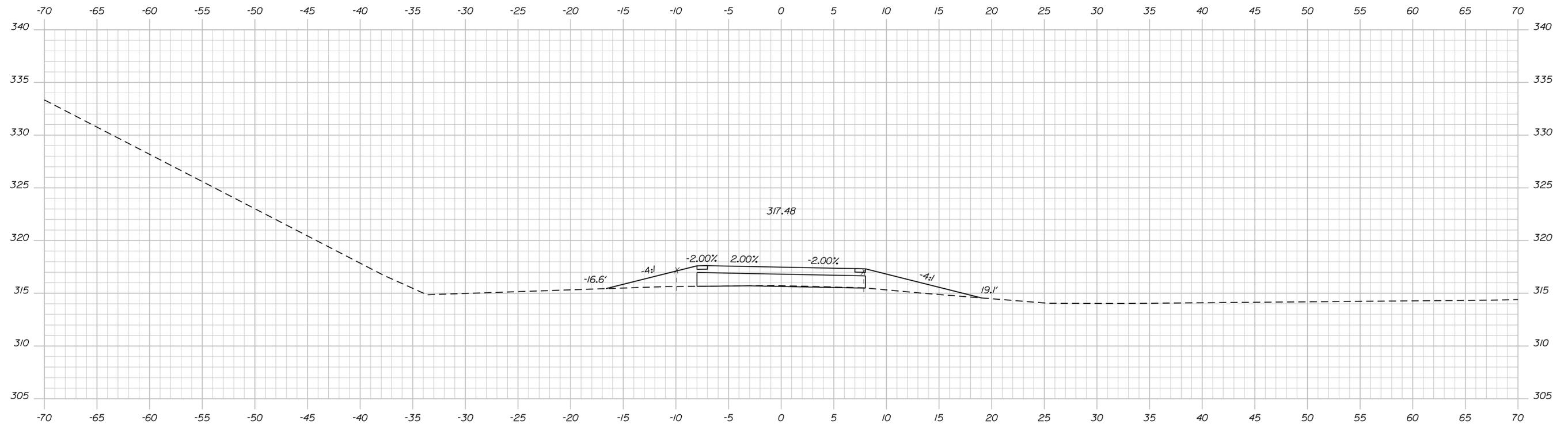
Sta. 27+50.00 to Sta. 28+00.00

Date: 2/22/2019

Filename: ... \HIGHWAY\MSTA\XXX\_XSections.dgn



29+00.00



28+50.00

Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	TSK	1/2019		TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

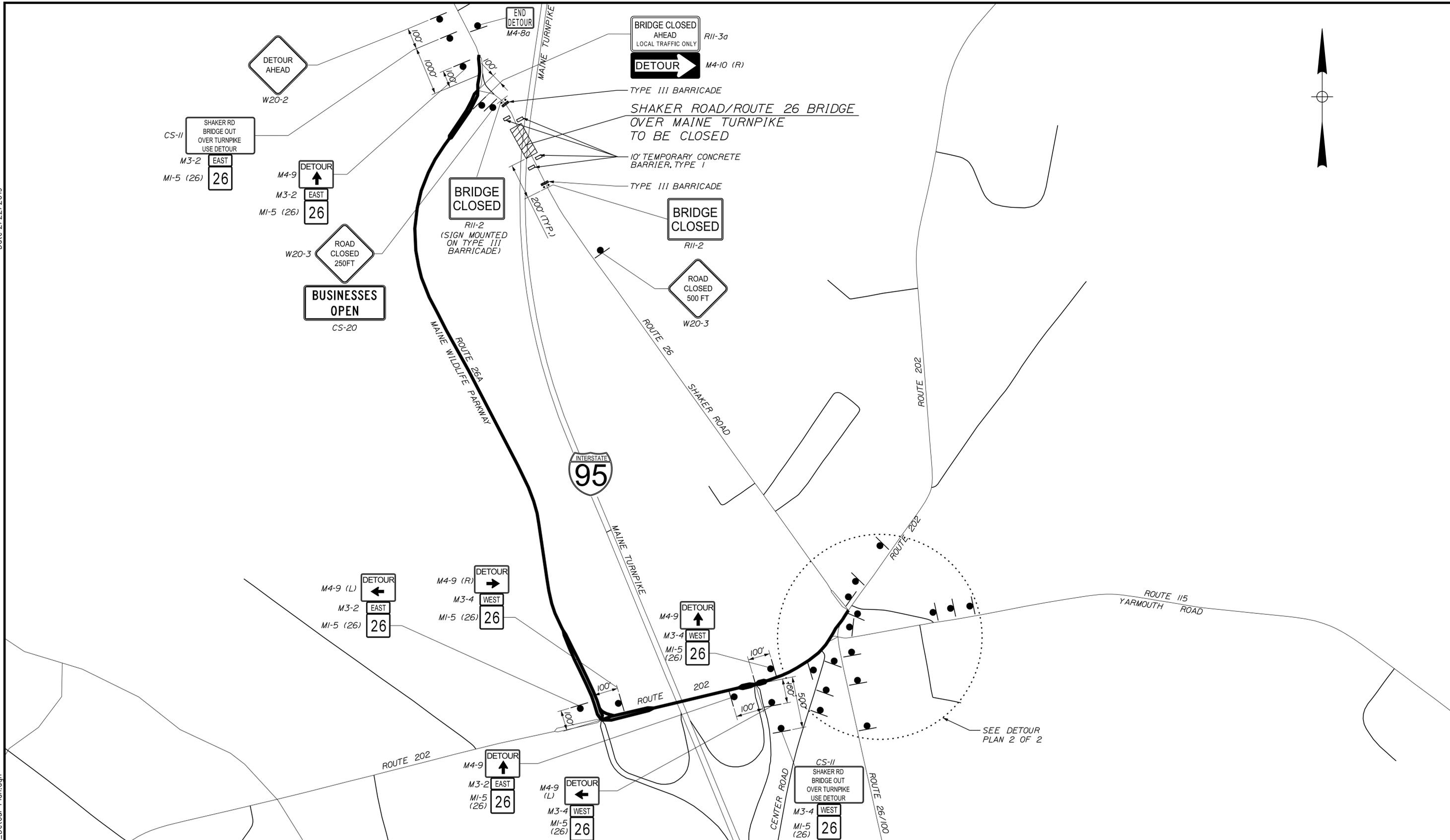
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 BENNETT ROAD EVR (MILE 68.6)  
 CROSS SECTIONS SOUTHBOUND

SHEET NUMBER: EVR-20  
 28 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

Filename: ...XXX\_64.3\_MOT\_Detour\_Plan.dgn



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date
Designed	GC	12/2018	Checked	KSD 12/2018
Drawn	GC	12/2018	In Charge of	DSM 1/2019

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 FAX: (207) 781-4753

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

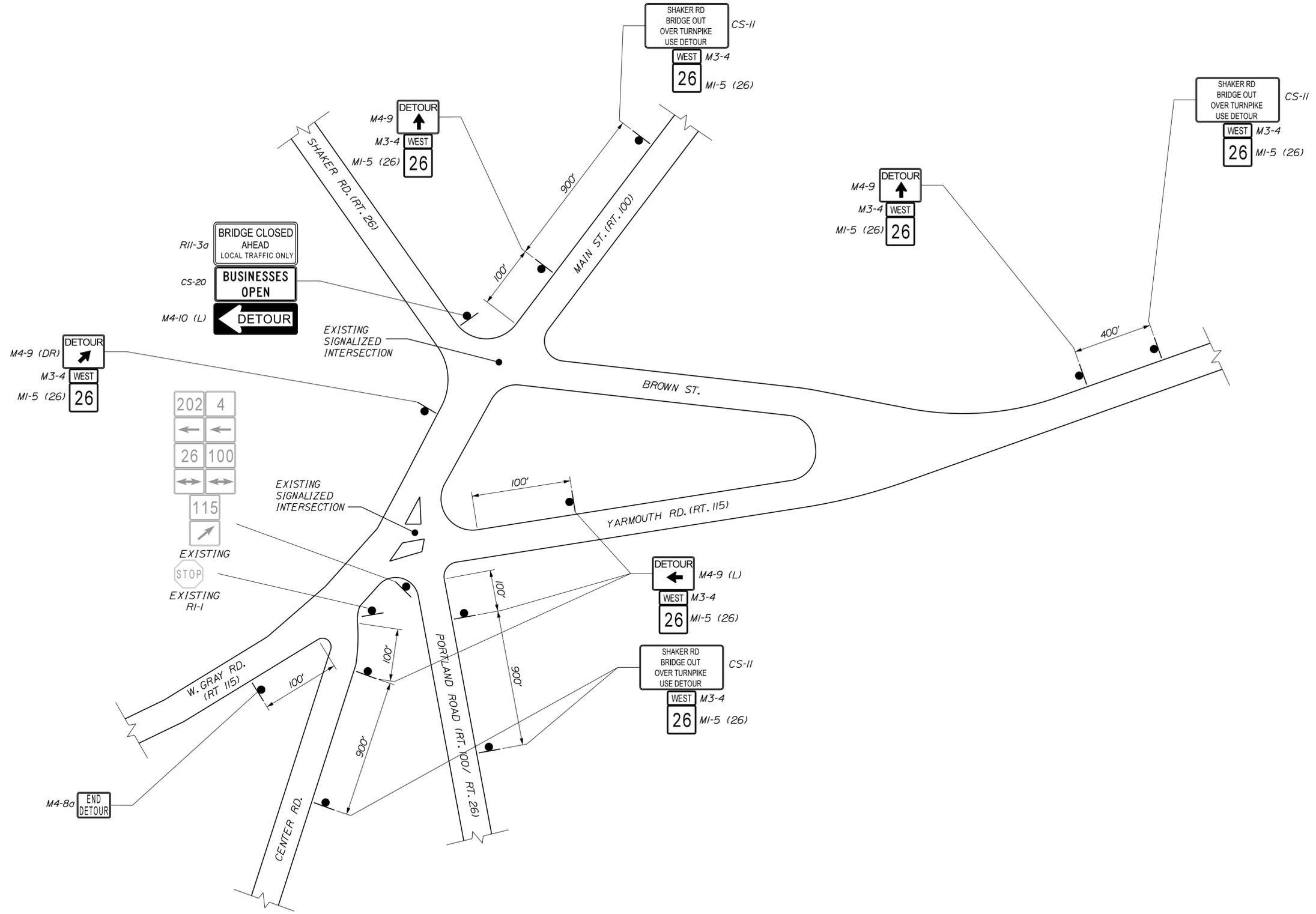
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 DETOUR PLAN 1 OF 2

SHEET NUMBER: RT26-01  
 CONTRACT: 2019.11  
 29 OF 105

Date: 2/22/2019

Filename: ...XXX\_64.3\_MOT\_Detour\_Plan.dgn



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date	
Designed	GC	12/2018	Checked	TSK	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 DETOUR PLAN 2 OF 2

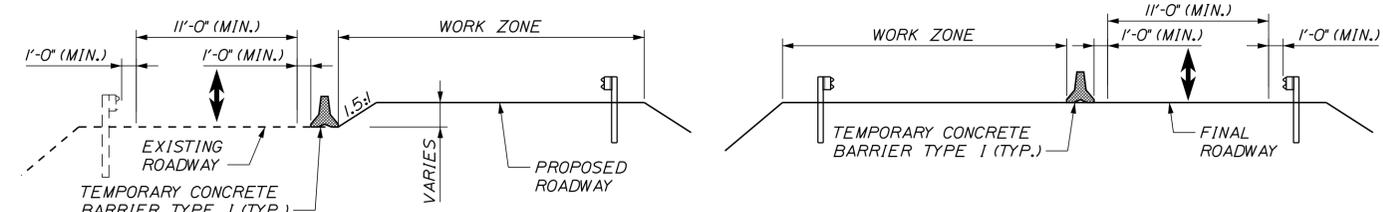
SHEET NUMBER: RT26-02  
 CONTRACT: 2019.11  
 30 OF 105

Date: 2/22/2019

Filename: ...XXX\_MOT\_Diis\_01\_route26.dgn

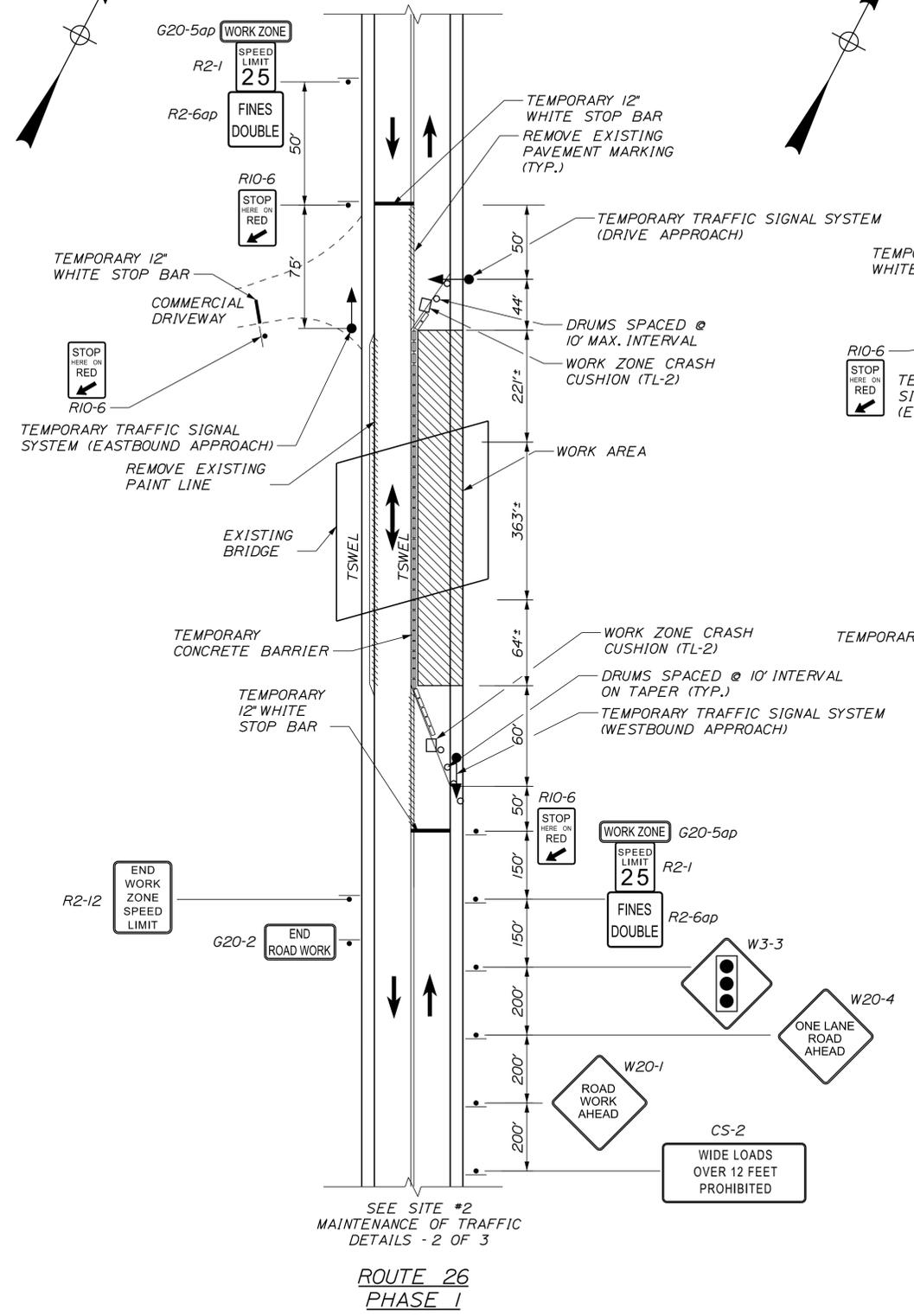
SEE SITE #1  
MAINTENANCE OF TRAFFIC  
DETAILS - 2 OF 3

SEE SITE #1  
MAINTENANCE OF TRAFFIC  
DETAILS - 2 OF 3

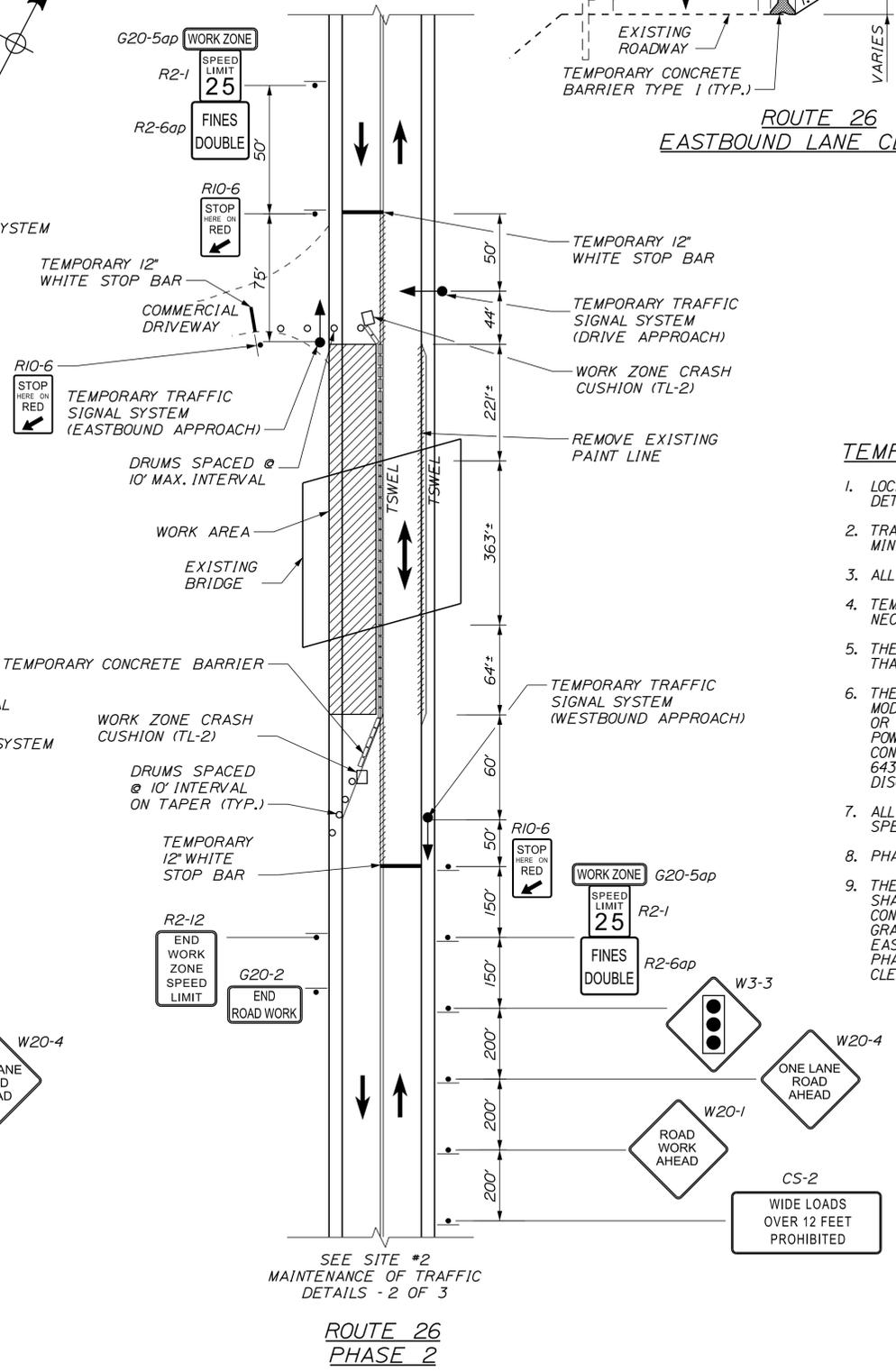


ROUTE 26  
EASTBOUND LANE CLOSURE

ROUTE 26  
WESTBOUND LANE CLOSURE



ROUTE 26  
PHASE 1



ROUTE 26  
PHASE 2

**SIGNAL TIMING**

INTERSECTION	WESTBOUND APPROACH	EASTBOUND APPROACH	DRIVEWAY
MOVEMENT	WBT	EBT	
PHASE	1	2	3
MIN GREEN	5	5	5
YELLOW	3	3	3
ALL RED	31	31	31
MAX SPLIT	25	30	10
VEH EXTENSION	3	3	3

**TEMPORARY SIGNAL NOTES:**

- LOCATIONS OF TEMPORARY TRAFFIC SIGNAL SYSTEMS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC.
- ALL SIGNAL SECTIONS SHALL HAVE LED LENSES 12 INCHES IN DIAMETER WITH 5 IN BACK PLATES.
- TEMPORARY TRAFFIC SIGNAL SYSTEMS SHALL BE TRAILER MOUNTED SIGNAL HEADS WITH ALL NECESSARY POWER SUPPLY AND SIGNAL TIMING CONTROL.
- THE BOTTOM OF THE HOUSING OF NEW SIGNAL FACES SHALL BE AT LEAST 16 FT BUT NOT MORE THAN 19 FT ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- THE CONTRACTORS SHALL MEET ALL REQUIREMENTS OF THE UTILITY COMPANIES WHEN MODIFYING/INSTALLING SERVICE CONNECTIONS AND WHEN INSTALLING EQUIPMENT ON THEIR POLES OR NEAR THEIR WIRES, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING POWER METERS, IF REQUIRED, AND ASSURING THE POWER METER LOCATION AND INSTALLATION CONFORMS TO THE LOCAL UTILITY REQUIREMENTS. THIS WORK SHALL BE INCIDENTAL TO ITEM 643.72, TEMPORARY TRAFFIC SIGNAL THE SERVICE POLE, WIRING, METER SOCKET, AND DISCONNECT/POWER PANEL SHALL BE INCIDENTAL TO ITEM 643.72, TEMPORARY TRAFFIC SIGNAL.
- ALL POWER AND CONTROL SPLICES WILL BE MADE IN THE CABINETS MEETING MAINEDOT SPECIFICATIONS.
- PHASE 3 (DRIVEWAY) SHALL ALWAYS FOLLOW PHASE 2 (ROUTE 26 EASTBOUND).
- THE TEMPORARY TRAFFIC SIGNAL SHALL INCLUDE EMERGENCY PRE-EMPTION CAPABILITIES AND SHALL INCLUDE EMTRAC OPTICAL SENSORS AND EMTRAC OPTICAL PRIORITY DETECTORS. THE CONTRACTOR SHALL CONFIRM THAT THE PROPOSED EQUIPMENT IS COMPATIBLE WITH TOWN OF GRAY REQUIREMENTS. PRE-EMPTION EQUIPMENT SHALL ALLOW FOR TWO SIGNAL PHASES, ROUTE 26 EASTBOUND AND ROUTE 26 WESTBOUND. A PRE-EMPTION REQUEST SHALL EITHER HOLD THE PHASE IN WHICH THE VEHICLE IS TRAVELING OR END A COMPETING PHASE WITH RED CLEARANCE AS NOTED.

**GENERAL NOTES:**

- ALL SIGNALS SHALL BE TRAFFIC ACTUATED.
- THE ALL RED TIMINGS PROVIDED ARE BASED ON 900 FEET BETWEEN STOP BARS AND AN AVERAGE SPEED OF 20 MPH.
- TIMING PLAN MAY BE CHANGED BY A LICENSED PROFESSIONAL ENGINEER IF OPERATION IN THE FIELD REQUIRES TIMING ADJUSTMENT.
- IF A LICENSED PROFESSIONAL ENGINEER CANNOT BE REACHED, THE PROJECT RESIDENT SHALL HAVE AUTHORITY TO INCREASE ALL RED CLEARANCE IF NECESSARY.
- ALL WORK SHALL COMPLY WITH MUTCD.
- TRAFFIC SIGNALS CAN BE MOUNTED ON A TRAILER OR TEMPORARY POLES.
- LOCATION OF SIGNAL HEADS SHALL BE DETERMINED IN THE FIELD.
- FOR SIGN DETAILS SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.
- SEE ADDITIONAL NOTES FOR TEMPORARY SIGNAL WORK ON TRAFFIC CONTROL DETAILS, SHEET 10F 2.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed	TSK 12/2018	Checked	KSD 12/2018
Drawn	PEM 12/2018	In Charge of	DSM 1/2019

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS

ROUTE 26 (MILE 64.3)

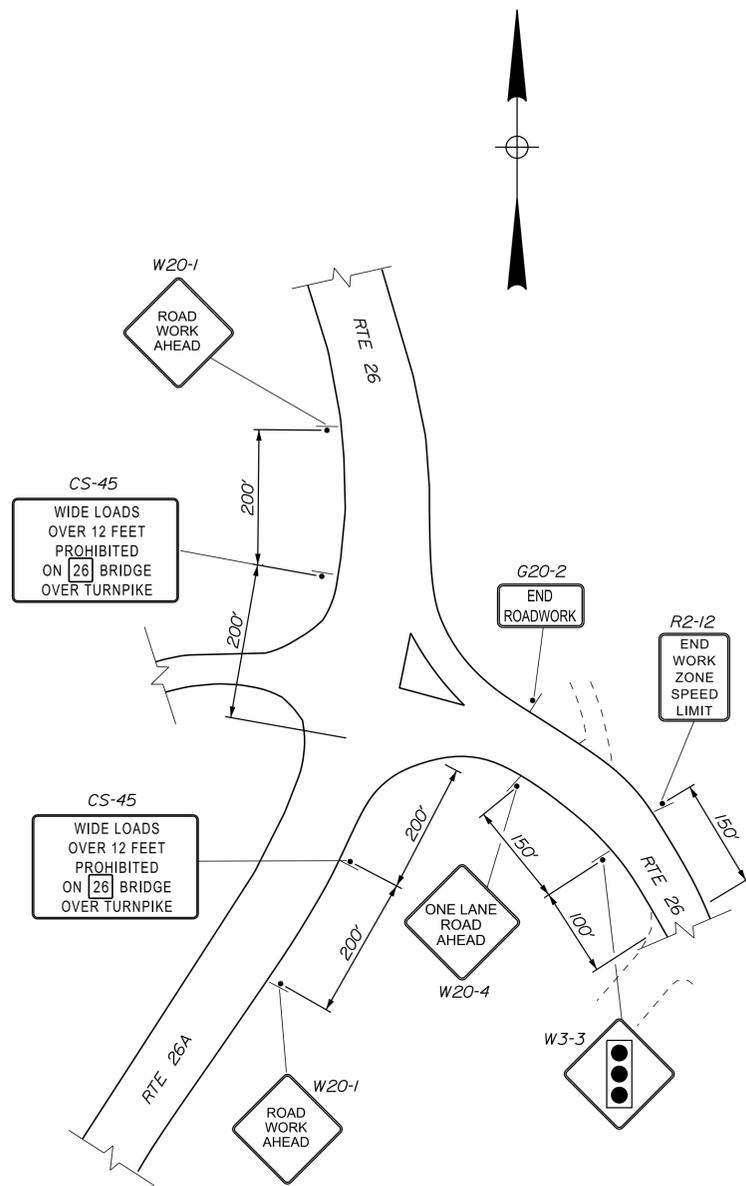
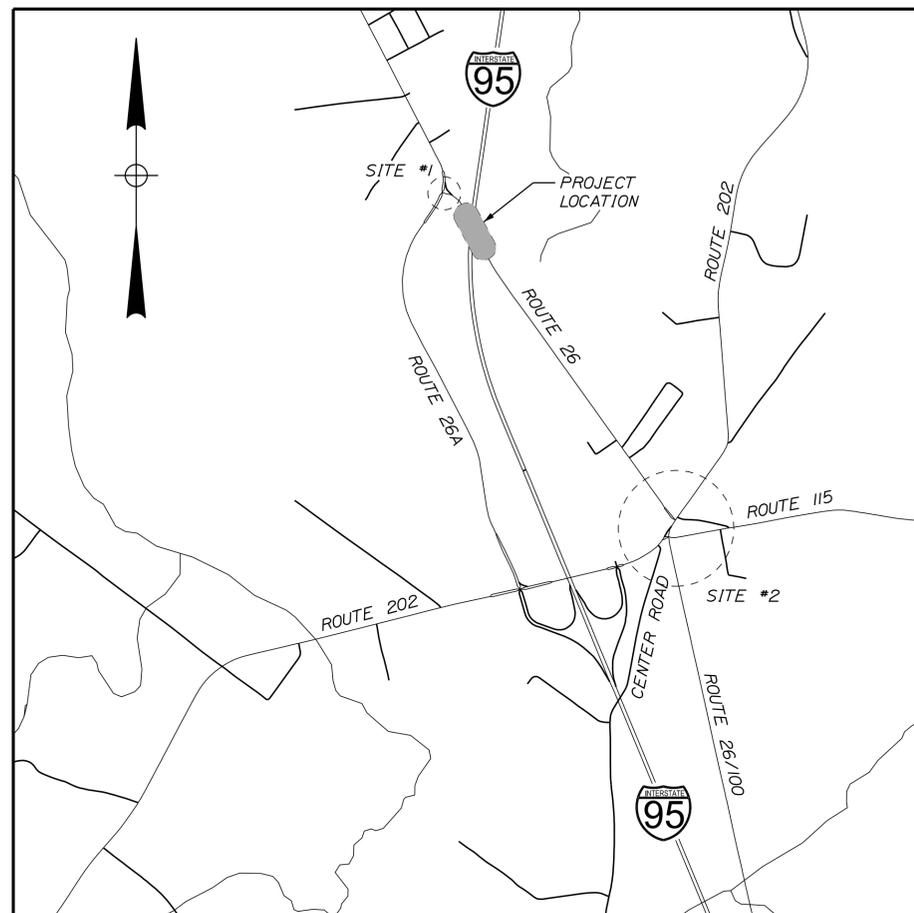
MAINTENANCE OF TRAFFIC DETAILS - 1 of 3

SHEET NUMBER: RT26-03

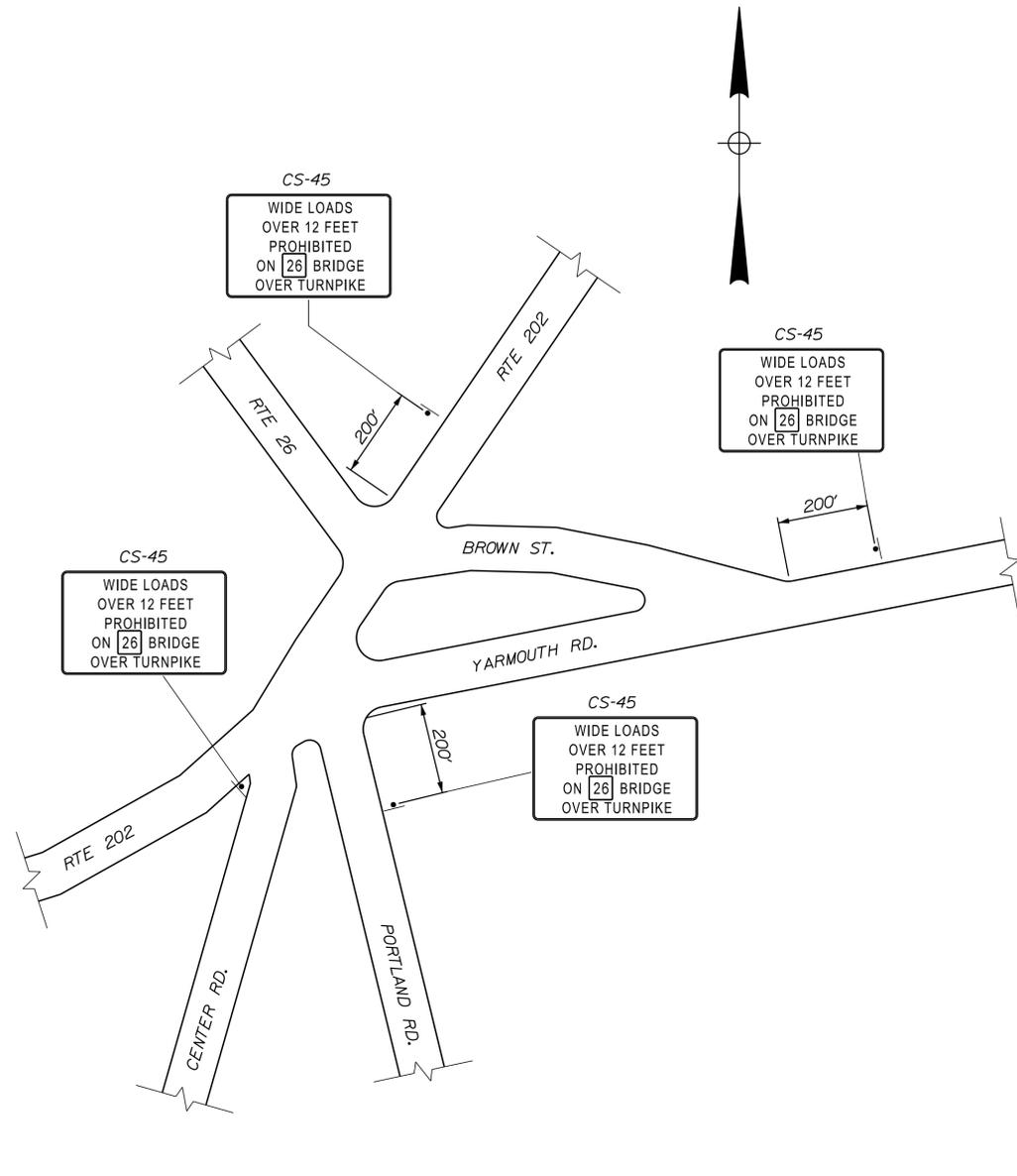
CONTRACT: 2019.11

31 OF 105

Date: 2/22/2019



SITE #1



SITE #2

Filename: ...XXX\_MOT\_Dis\_02\_route26.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
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Drawn	PEM	12/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 MAINTENANCE OF TRAFFIC DETAILS - 2 of 3  
 SHEET NUMBER: RT26-04  
 CONTRACT: 2019.11  
 32 OF 105



Date: 2/22/2019

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-2	60"	36"		6C 6C 6C	5" 4" 5"		1	ORANGE	BLACK		15.00 (15)	
CS-10	48"	48"		7C 7C	6"		2	ORANGE	BLACK		16.00 (32)	
CS-11	54"	36"		5C 5C 5C 5C	3" 3" 3"		6	ORANGE	BLACK		13.50 (81)	
CS-20	42"	18"		5C 5C	2.5" 3" 2.5"		2	ORANGE	BLACK		5.25 (10.5)	
CS-45	60"	48"		5C 5C 5C 5C 5C	3" 3" 3" 3"		6	ORANGE	BLACK		20.00 (120)	
G20-2	36" 48"	18" 24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			2 4	ORANGE	BLACK		4.50 (9) 8.00 (32)	
G20-5aP	24" 36"	18" 24"					2 4	ORANGE	BLACK		3.00 (6) 6.00 (24)	
M1-5 (26)	24"	24"					18	WHITE	BLACK		4.00 (72)	
M3-2	24"	12"					4	WHITE	BLACK		2.00 (8)	
M3-4	24"	12"					14	WHITE	BLACK		2.00 (28)	
M4-8A	24"	18"					2	ORANGE	BLACK		3.00 (6)	
M4-9	30"	24"					5	ORANGE	BLACK		5.00 (25)	
M4-9 (DR) (DIAGONAL RIGHT)	30"	24"					1	ORANGE	BLACK		5.00 (5)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
M4-9L (LEFT) M4-9R (RIGHT)	30"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			5 1	ORANGE ORANGE	BLACK BLACK		5.00 (25) 5.00 (5)	
M4-10R (RIGHT) M4-10L (LEFT)	48"	18"					1 1	ORANGE ORANGE	BLACK BLACK		6.00 (6) 6.00 (6)	
R2-1 (25) (50)	24" 48"	30" 60"					2 4	WHITE	BLACK		5.00 (10) 20.00 (80)	
R2-6aP	24" 36"	18" 24"					2 4	WHITE	BLACK		3.00 (6) 6.00 (24)	
R2-12	24" 36"	36" 54"					2 4	WHITE	BLACK		6.00 (12) 13.50 (54)	
R10-6	24"	36"					3	WHITE	BLACK		6.00 (18)	
R11-2	48"	30"					2	WHITE	BLACK		10.00 (20)	
R11-3a	60"	30"					2	WHITE	BLACK		12.50 (25)	
W3-3	36"	36"					2	ORANGE	BLACK		9.00 (18)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	

Filename: ...XXX\_MOT\_Sign\_Sum\_01\_64\_3.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed TWA	1/2019	Checked PJB	1/2019
Drawn TWA	1/2019	In Charge of DSM	1/2019

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 M.O.T. SIGN SUMMARY 1 OF 2

CONTRACT: 2019.11

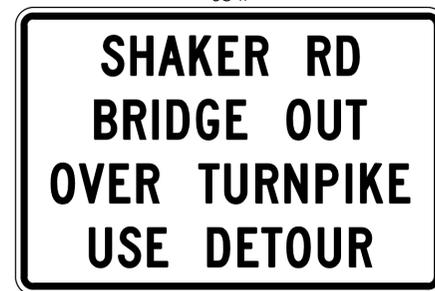
SHEET NUMBER: RT25-06  
 34 OF 105

Date: 2/22/2019

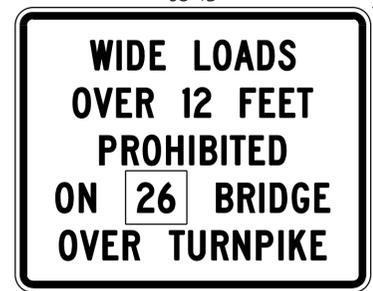
Filename: ...XXX\_MOT\_Sum\_01\_64\_3.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W4-2 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W8-1	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					4	ORANGE	BLACK		7.50 (30)	
W20-1 (1 MILE) (AHEAD)	48"	48"					4	ORANGE	BLACK		16.00 (64) 16.00 (64) 9.00 (27)	
W20-1 (AHEAD)	48"	48"		4								
W20-2	36"	36"					1	ORANGE	BLACK		9.00 (9)	
W20-3 (250) (500)	36"	36"					1	ORANGE	BLACK		9.00 (9) 9.00 (9)	
W20-4	36"	36"					2	ORANGE	BLACK		9.00 (18)	

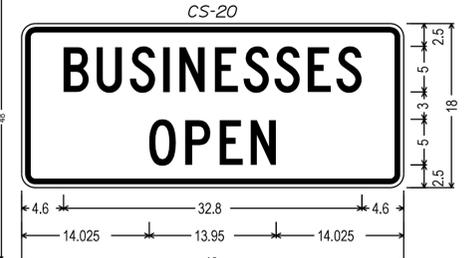
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-5 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W20-7a	36"	36"					2	ORANGE	BLACK		9.00 (18)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5aR (LEFT) (RIGHT)	48"	48"					4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W21-5bR (LEFT) (RIGHT)	48"	48"		4								
W21-5bR (LEFT) (RIGHT)	48"	48"					4	ORANGE	BLACK		16.00 (64) 16.00 (64)	



CS-11  
 2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;  
 [SHAKER RD] Black C 2K; [BRIDGE OUT] Black C 2K;  
 [OVER TURNPIKE] Black C 2K; [USE DETOUR] Black C 2K;



CS-45  
 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Orange;  
 [WIDE LOADS] Black C 2K; [OVER 12 FEET] Black C 2K;  
 [PROHIBITED] Black C 2K; [ON] Black C 2K; [RECTANGLE] Black;  
 [BRIDGE] Black C 2K; [OVER TURNPIKE] Black C 2K;



CS-20  
 1.500" Radius, 0.625" Border, 0.375" Indent, Black on Orange;  
 [BUSINESSES] C 2K; [OPEN] C 2K;

Scale: NOT TO SCALE

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**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 M.O.T. SIGN SUMMARY 2 OF 2

CONTRACT: 2019.11

SHEET NUMBER: RT25-07  
 35 OF 105

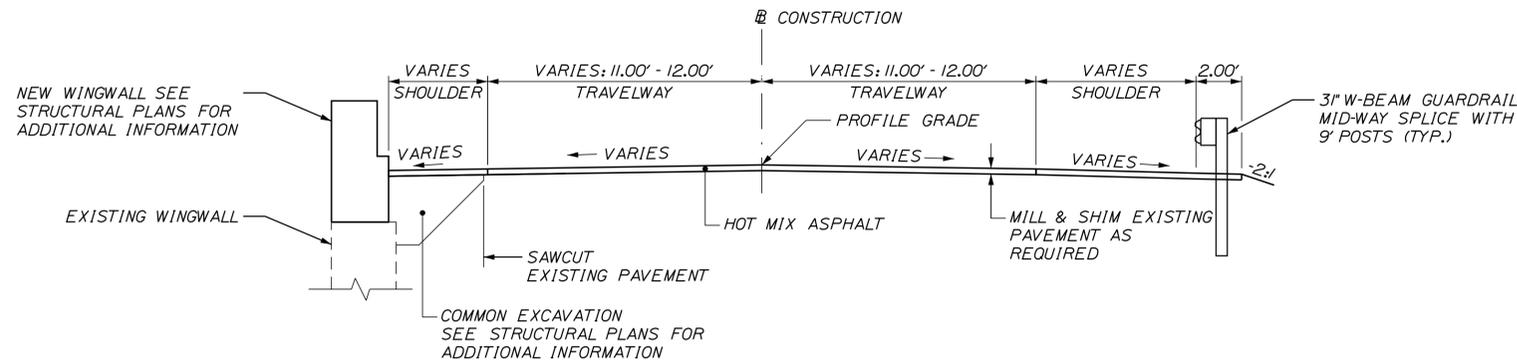
Date: 2/22/2019

Filename: ... \MSTAXXX\_Typicals\_route26.dgn

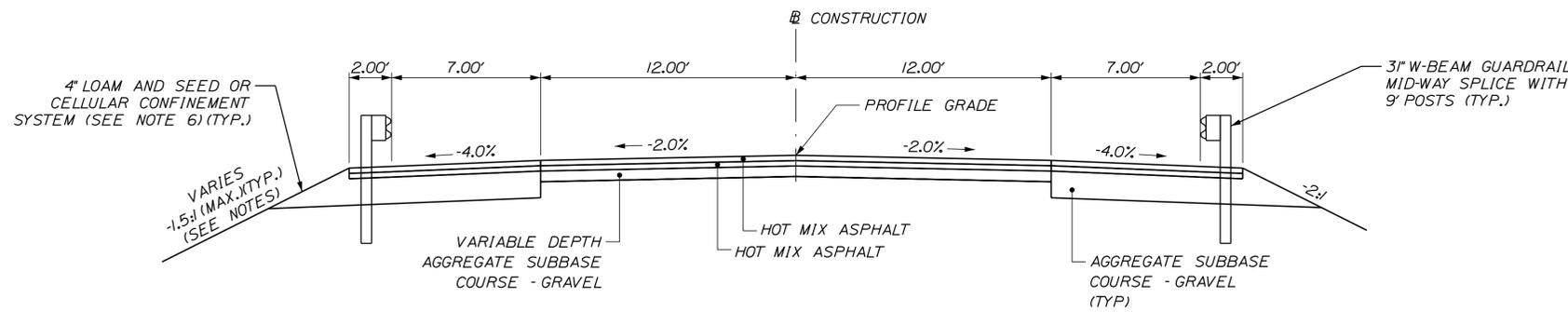
**SUPERELEVATION TABLE**

ROUTE 26				
LT. SHOULDER	LT. TRAVEL LANE	STATION	RT. TRAVEL LANE	RT. SHOULDER
-2.70%	-2.70%	*72+19	-2.20%	-4.50%
-1.51%	-1.51%	72+50	-1.51%	-2.44%
-1.51%	-1.51%	72+64	-1.51%	-1.51%
		to		
-1.51%	-1.51%	BRIDGE	-1.51%	-1.51%
		to		
-1.51%	-1.51%	76+65	-1.51%	-1.51%
-2.55%	-1.84%	76+91	-1.51%	-1.51%
-3.08%	-2.00%	77+04	-2.00%	-2.06%
-4.00%	-2.00%	77+27	-2.00%	-3.03%
-4.00%	-2.00%	77+50	-2.00%	-4.00%
-4.00%	-2.00%	78+00	-2.00%	-4.00%
-2.28%	-2.00%	78+50	-2.00%	-4.00%
-1.70%	-2.60%	*78+67	-1.50%	-3.30%

\*MATCH EXISTING



**TYPICAL WESTERN APPROACH SECTION**  
NORMAL  
STA. 72+18.84 TO STA. 73+09.14



**TYPICAL EASTERN APPROACH SECTION**  
NORMAL  
STA. 76+19.79 TO 78+67.00

**NOTES:**

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 4 INCH LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND THE TRAVEL LANE CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8 PERCENT.
5. THE STATIONING UNDER EACH TYPICAL IS APPROXIMATE.
6. CELLULAR CONFINEMENT SYSTEM SHALL BE USED ON ALL SLOPES STEEPER THAN 2:1 AND SHALL BE INSTALLED PER THE SPECIAL PROVISIONS.

Scale: NOT TO SCALE

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Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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ROUTE 26 (MILE 64.3)  
TYPICAL APPROACH SECTION

SHEET NUMBER: RT26-08  
CONTRACT: 2019.11  
36 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_HDPlan\_Route26.dgn

**ITEM 627.712 - WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH	TYPE
70+15.0	CL		78+67.0	CL	852.0'	DYCL
72+18.8	11' LT		78+67.0	11' LT	648.2'	SWEL
72+18.8	11' RT		78+67.0	11' RT	648.2'	SWEL

**ITEM 607.17 - CHAIN LINK FENCE - 6 FOOT**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
72+05.2	45.0' LT		72+32.3	18.3' LT	38.0'
72+49.4	39.8' RT		72+99.8	18.4' RT	76.1'
76+28.4	18.8' LT		76+28.4	51.3' LT	32.5'
76+80.7	18.8' RT		78+68.5	60.0' RT	200.5'

**ITEM 645.106 - DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN**

STATION	OFFSET
72+21.7	27.3' RT
76+59.3	23.4' LT
78+55.6	26.0' LT

**ITEM 201.11 - CLEARING**

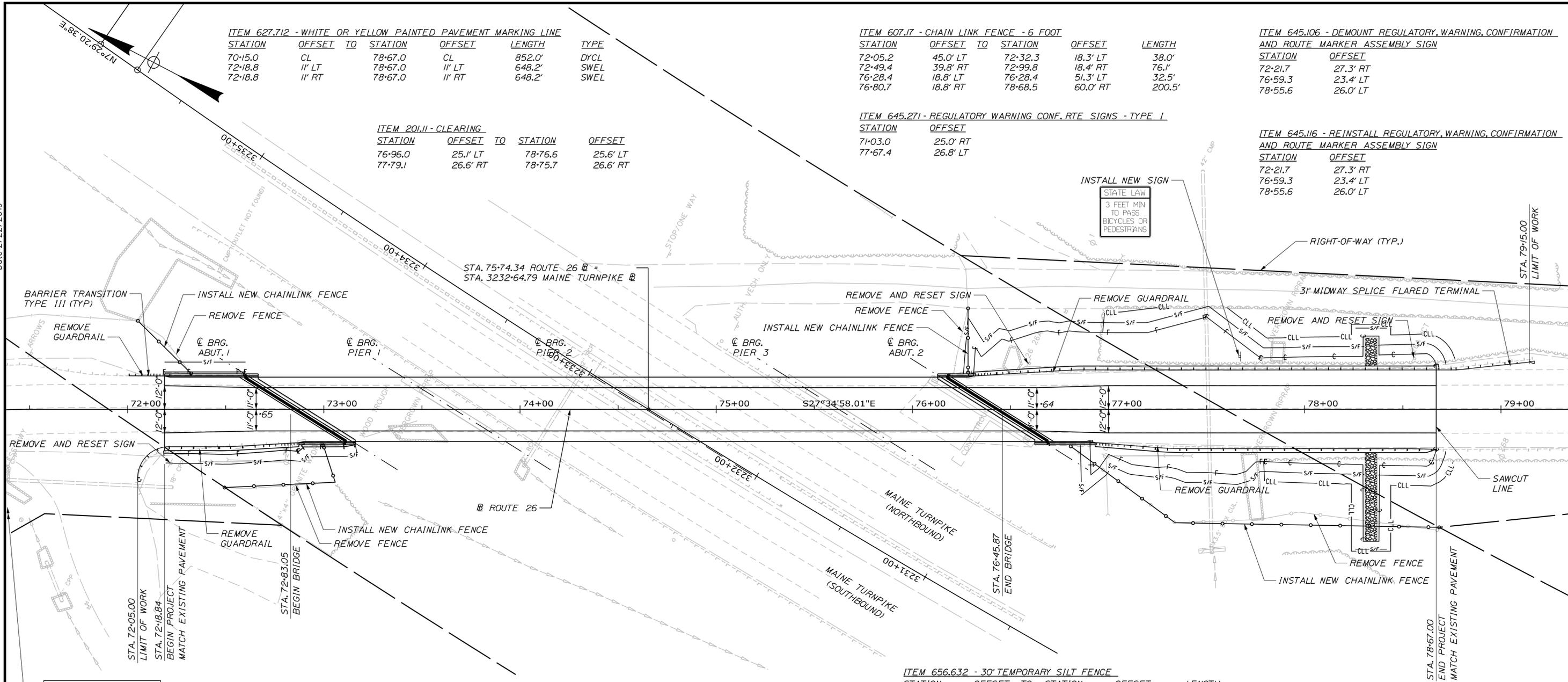
STATION	OFFSET	TO	STATION	OFFSET
76+96.0	25.1' LT		78+76.6	
77+79.1	26.6' RT		78+75.7	26.6' RT

**ITEM 645.271 - REGULATORY WARNING CONF. RTE SIGNS - TYPE I**

STATION	OFFSET
71+03.0	25.0' RT
77+67.4	26.8' LT

**ITEM 645.116 - REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN**

STATION	OFFSET
72+21.7	27.3' RT
76+59.3	23.4' LT
78+55.6	26.0' LT



**PLAN**  
SCALE: 1" = 25'

**ITEM 606.1304 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH	RADIUS
72+05.1	34.7' RT		72+21.1	19.0' RT	25.0'	16.0'

**ITEM 606.1305 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (31" HEIGHT)**

STATION	OFFSET
78+77.2	20.0' LT

**ITEM 606.1351 - TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL**

STATION	OFFSET
72+05.1	34.7' RT

**ITEM 656.632 - 30" TEMPORARY SILT FENCE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
72+15.2	26.8' RT		72+97.2	18.3' RT	91.8'
76+26.0	18.0' LT		78+71.9	22.9' LT	296.7'
76+85.7	18.0' RT		78+71.9	21.3' RT	228.4'

**ITEM 606.3631 - GUARDRAIL - REMOVE AND DISPOSE**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
72+00.7	17.0' LT		72+21.3	16.9' LT	20.6'
72+05.1	34.7' RT		72+89.8	16.9' RT	93.7'
76+28.8	16.9' LT		79+16.1	25.5' LT	287.3'
76+90.7	16.9' RT		78+67.4	20.3' RT	176.7'

**ITEM 606.1301 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
72+21.1	19.0' RT		72+69.2	18.0' RT	48.1'
76+49.4	18.0' LT		78+77.2	20.0' LT	227.8'
77+11.3	18.4' RT		78+67.4	20.3' RT	156.1'

**ITEM 606.1723 - BRIDGE TRANSITION - TYPE III**

STATION	OFFSET	TO	STATION	OFFSET
72+00.7	17.0' LT		72+21.3	16.9' LT
72+69.2	18.0' RT		72+89.8	16.9' RT
76+28.8	16.9' LT		76+49.4	18.0' LT
76+90.7	16.9' RT		77+11.3	18.4' RT

**ITEM 610.08 - PLAIN RIPRAP**

STATION	OFFSET	TO	STATION	OFFSET
78+30.8	22.0' LT		78+36.8	36.2' LT
78+30.8	67.1' RT		78+36.8	67.1' RT

**ITEM 618.14 - SEEDING METHOD NO. 2**

STATION	TO	STATION
72+18.8 RT		72+87.3 RT
76+31.3 LT		78+67.0 LT
76+90.5 RT		78+67.0 RT

- NOTES:**
- ALL STATIONING IS APPROXIMATE.
  - SEE MISCELLANEOUS DETAILS SHEET 3 OF 3 FOR NEW SIGN DETAILS.
  - PLACEMENT OF SIGNS TO BE APPROVED BY THE RESIDENT.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed	DSM 12/2018	Checked	TSK 12/2018
Drawn	PEM 12/2018	In Charge of	DSM 1/2019

T.Y. Lin International  
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 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

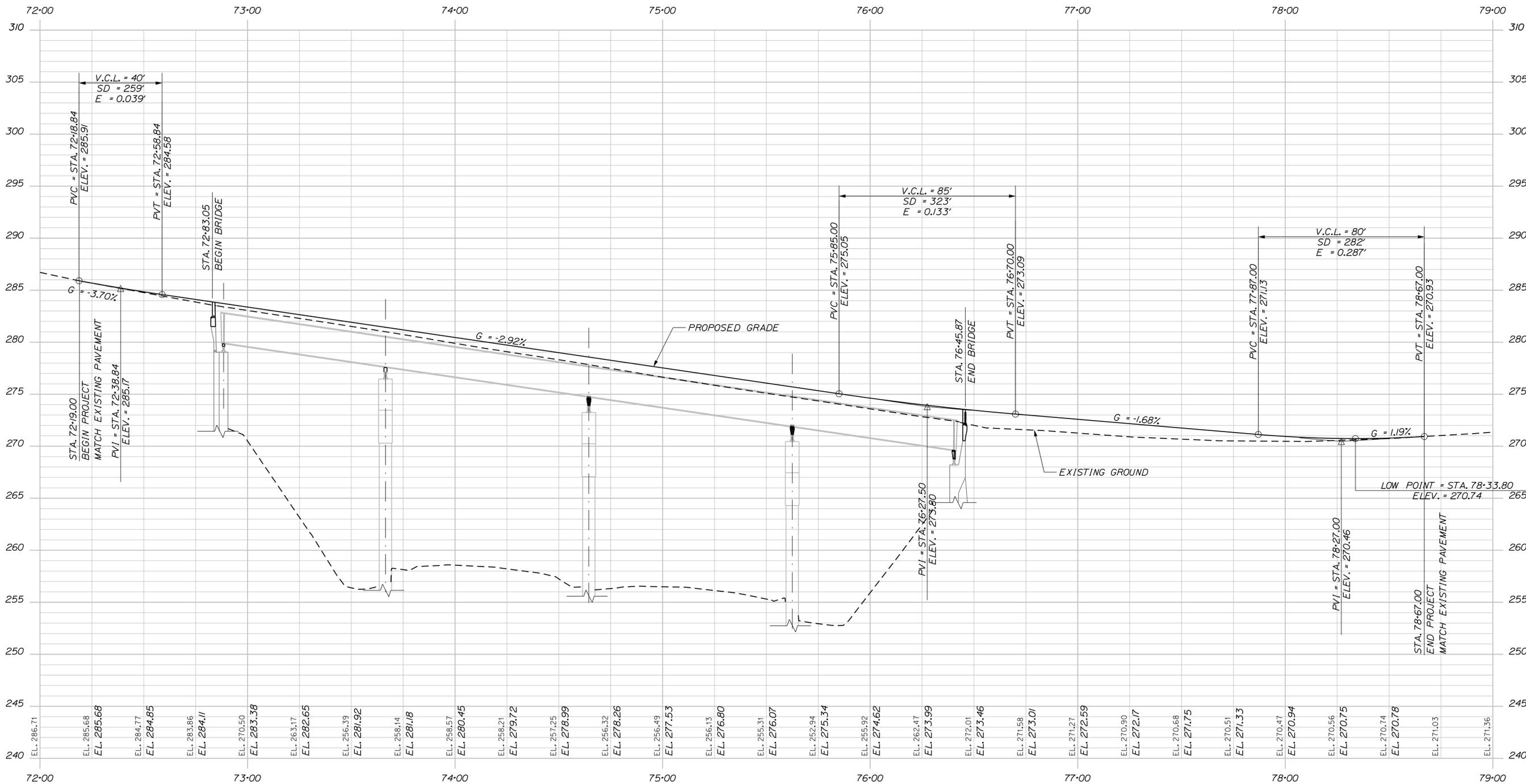
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 PLAN

SHEET NUMBER: RT26-09  
 37 OF 105

CONTRACT: 2019.11

Date: 2/22/2019



PROFILE

Filename: ... \MSTA\XXX\_Profile\_route26.dgn

Scale: 50 0 50 100

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TSK	12/2018	Checked	TSK	1/2019
Drawn	PEM	12/2018	In Charge of	DSM	1/2019

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 FAX: (207) 781-4753

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

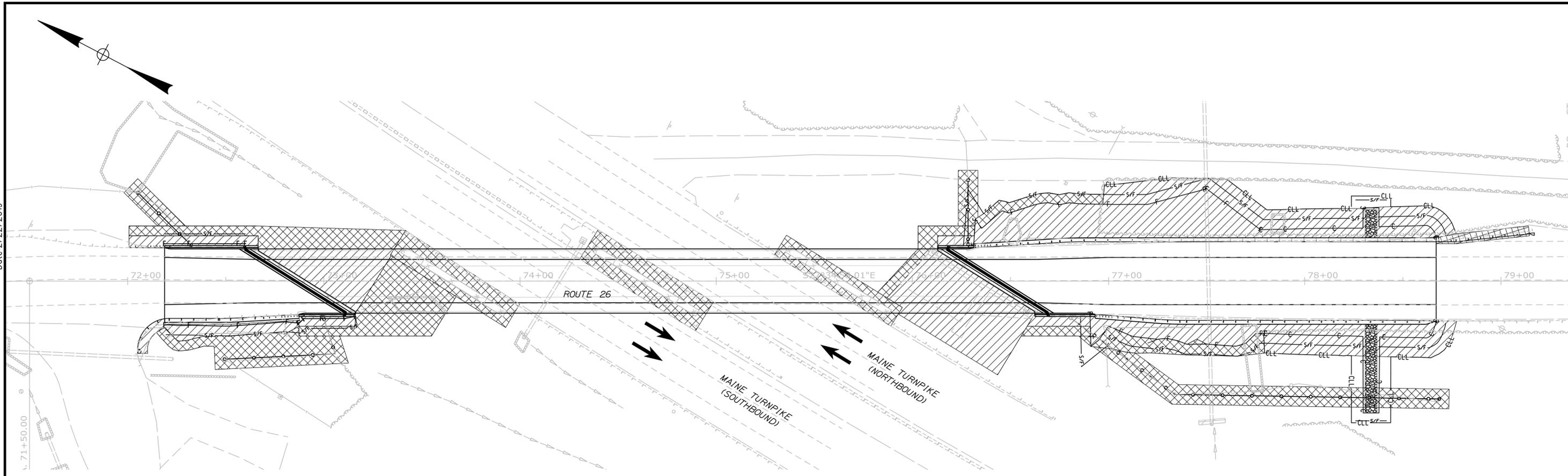
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 PROFILE

SHEET NUMBER: RT26-10  
 CONTRACT: 2019.11  
 38 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_LODPlan\_64\_3.dgn



LIMIT OF DISTURBANCE PLAN - ROUTE 26

LEGEND:

-  CONTRACT LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

AREAS:

CONTRACT LIMIT OF DISTURBANCE:

ROUTE 26 = 0.27 ACRES

CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:

ROUTE 26 = 0.23 ACRES

NOTES:

1. EROSION AND SEDIMENT CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
2. THE CONTRACTOR WILL BE ALLOWED TO STORE MATERIAL AND EQUIPMENT ON GRAVEL AND PAVEMENT WITHIN THE CLOSED PORTIONS OF ROUTE 26. THESE AREAS ARE EITHER INCLUDED IN THE LIMITS OF DISTURBANCE OR HAVE BEEN PREVIOUSLY SURFACED AND DO NOT ADD TO THE LIMITS OF DISTURBANCE.
3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Scale:			
No.	Revision	By	Date

Designed by:

**TY-LIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

Designed	By	Date	Checked	By	Date
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

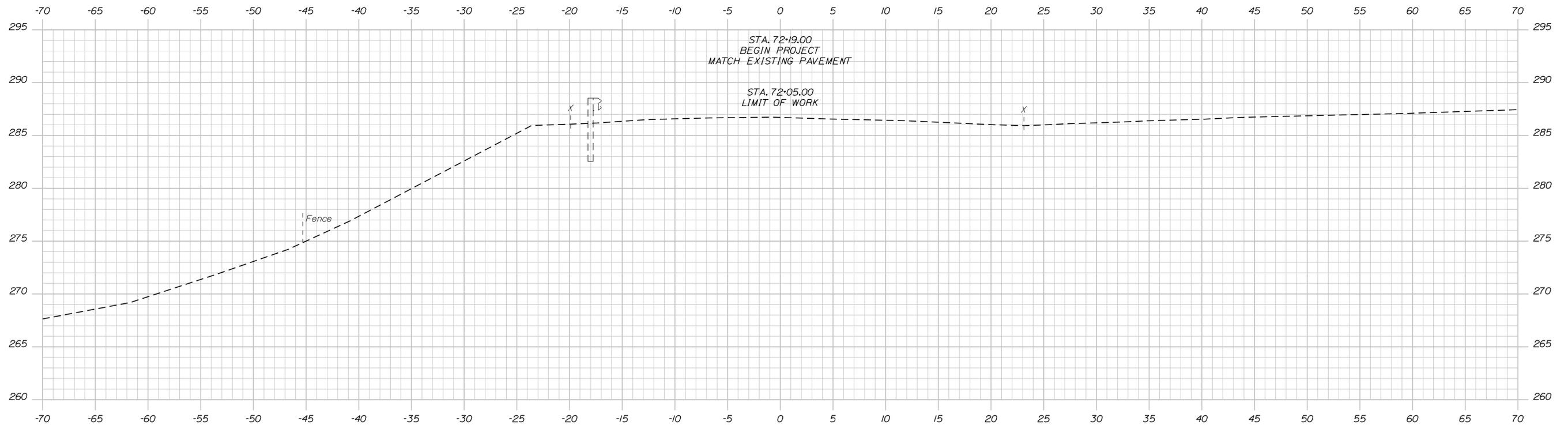
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 LIMIT OF DISTURBANCE

SHEET NUMBER: RT26-11  
 CONTRACT: 2019.11  
 39 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



72+00.00

Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

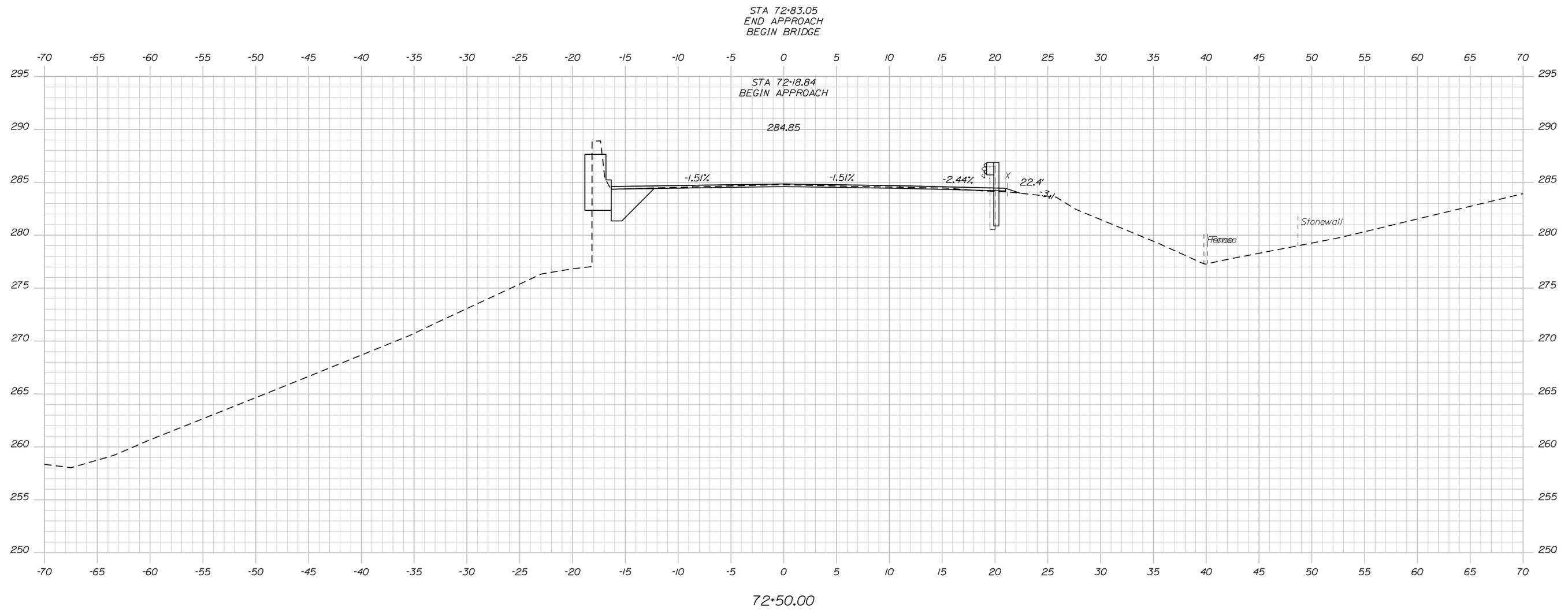
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

SHEET NUMBER: RT26-12  
 CONTRACT: 2019.11  
 40 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



72+50.00

Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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 FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

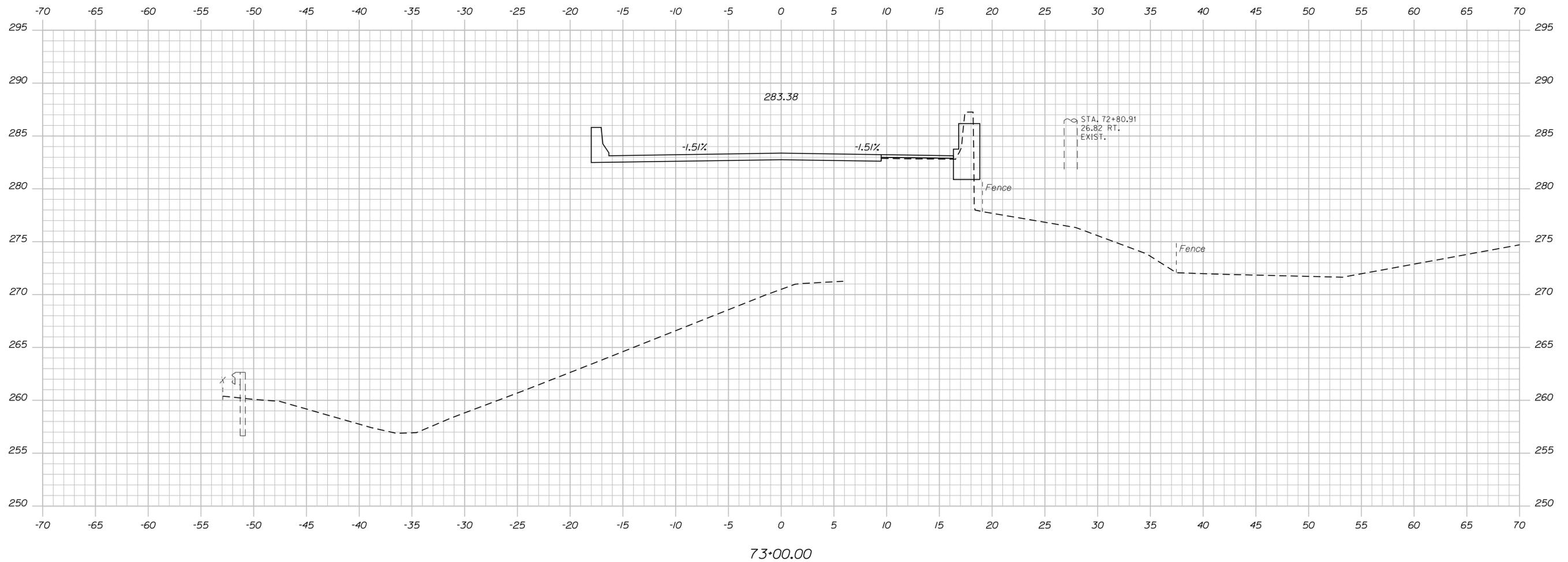
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

SHEET NUMBER: RT26-13  
 41 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

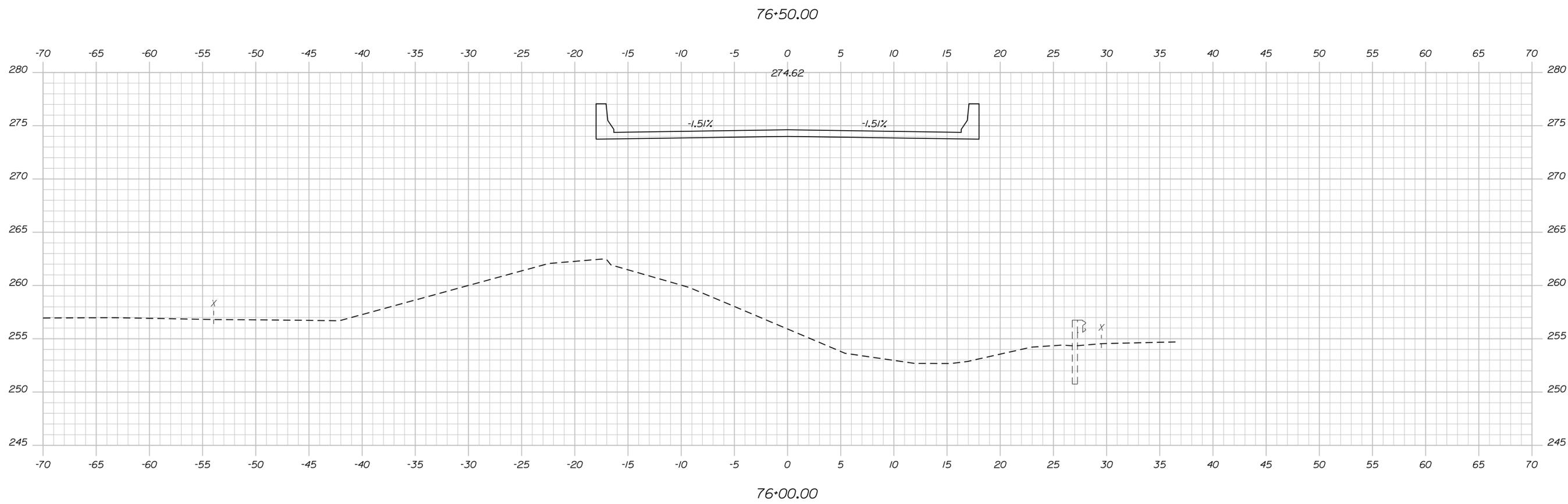
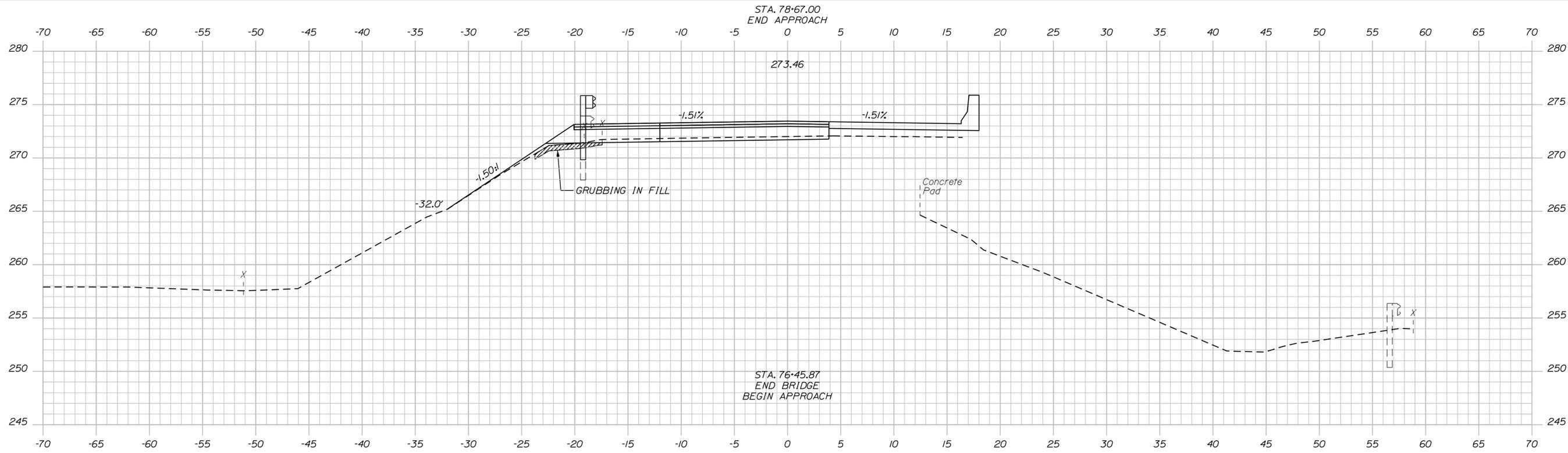
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

SHEET NUMBER: RT26-14  
 42 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

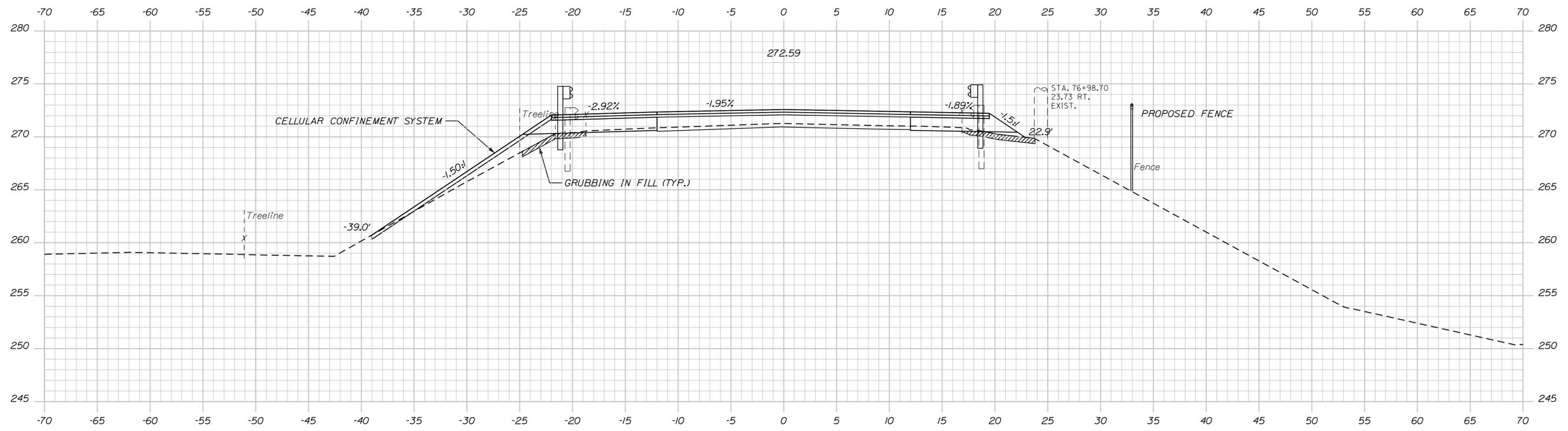
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

SHEET NUMBER: RT26-15  
 4.3 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



77+00.00

Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	DSM	1/2019		TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

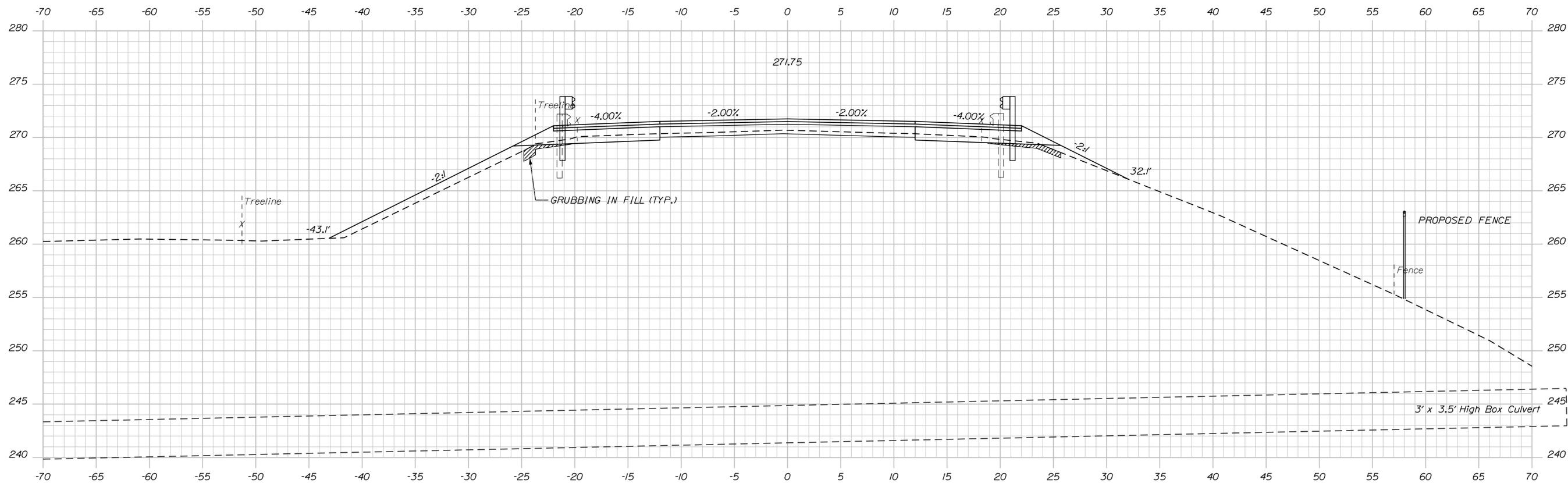
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

SHEET NUMBER: RT26-16  
 44 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



77+50.00

Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

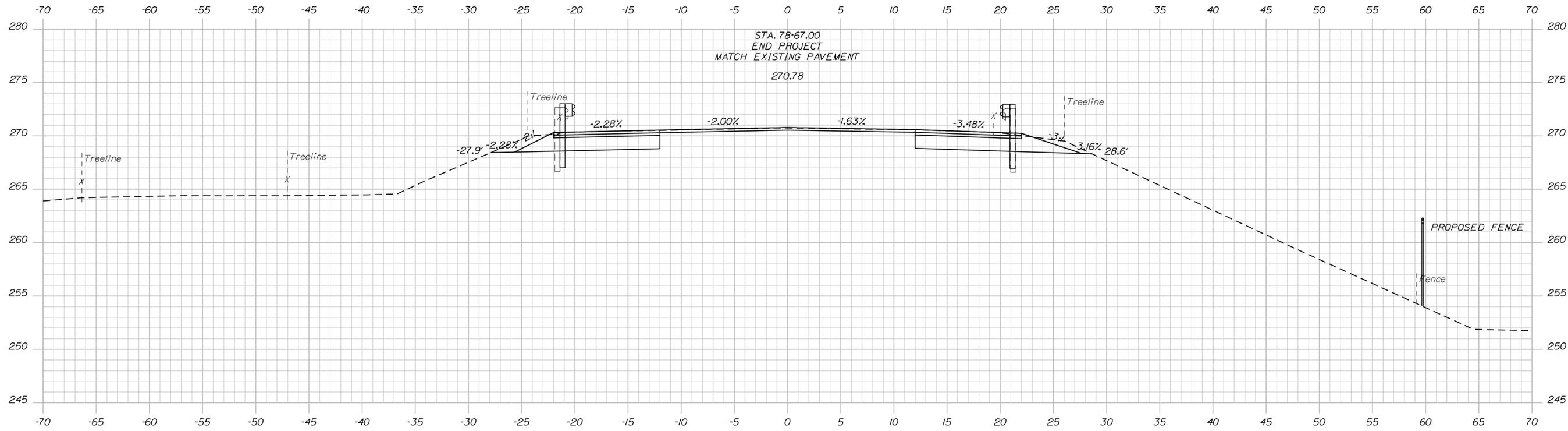
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

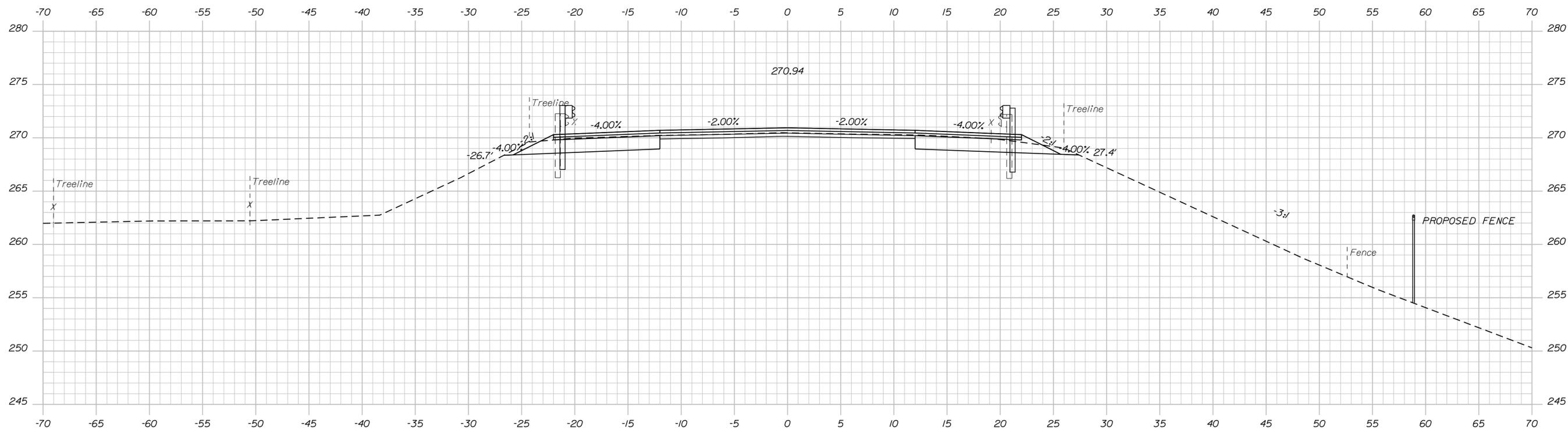
CONTRACT: 2019.11  
 SHEET NUMBER: RT26-17  
 45 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



78+50.00



78+00.00

Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	DSM	1/2019		TSK	1/2019
Drawn	PEM	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

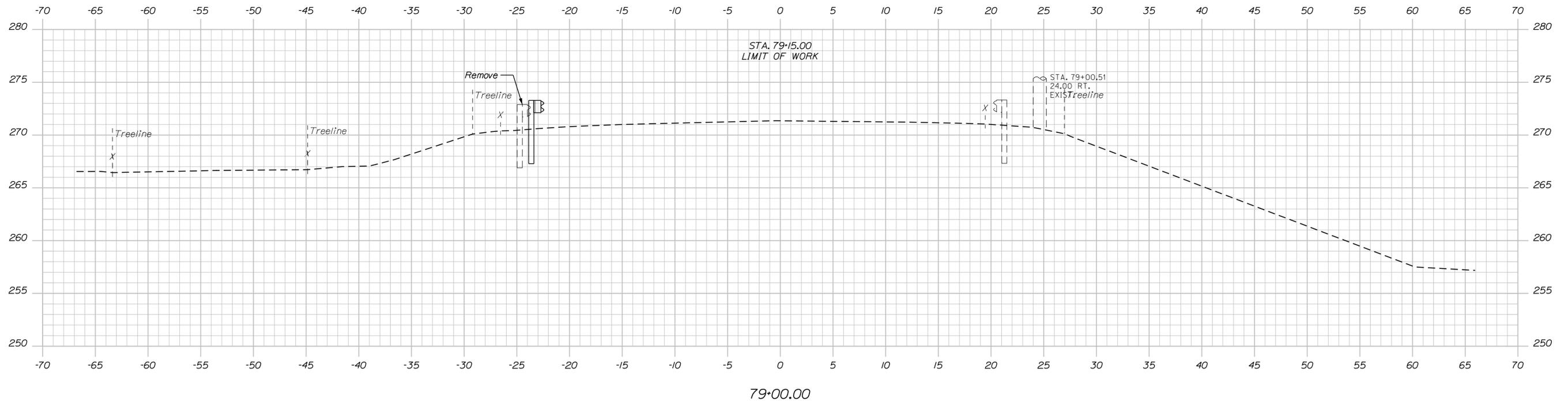
CONTRACT: 2019.11

SHEET NUMBER: RT26-18

46 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_XSections\_route26.dgn



Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date
Designed	DSM	1/2019	Checked TSK	1/2019
Drawn	PEM	1/2019	In Charge of DSM	1/2019

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 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

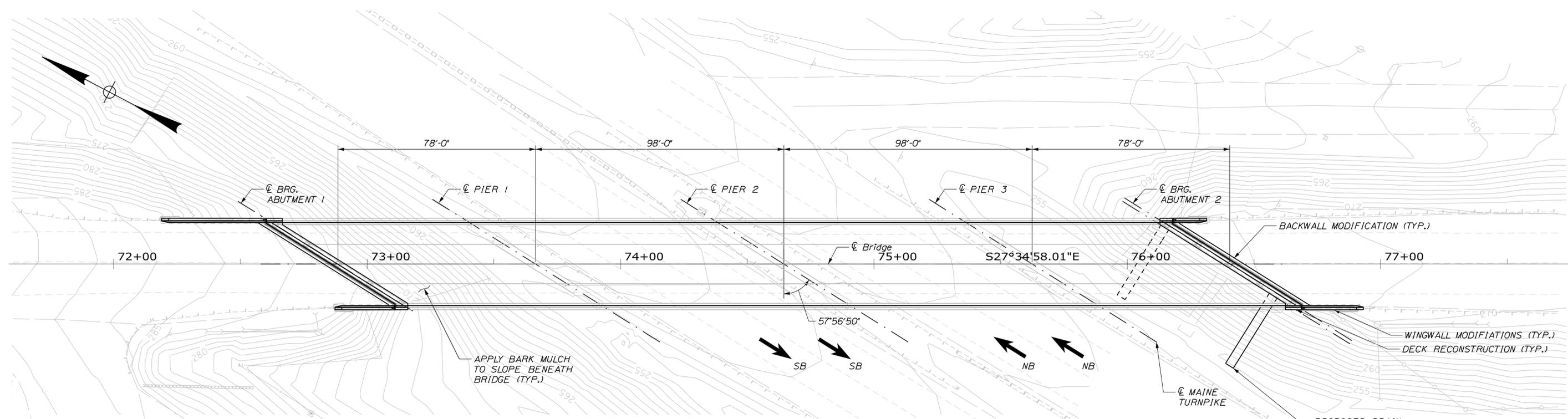
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 CROSS SECTIONS

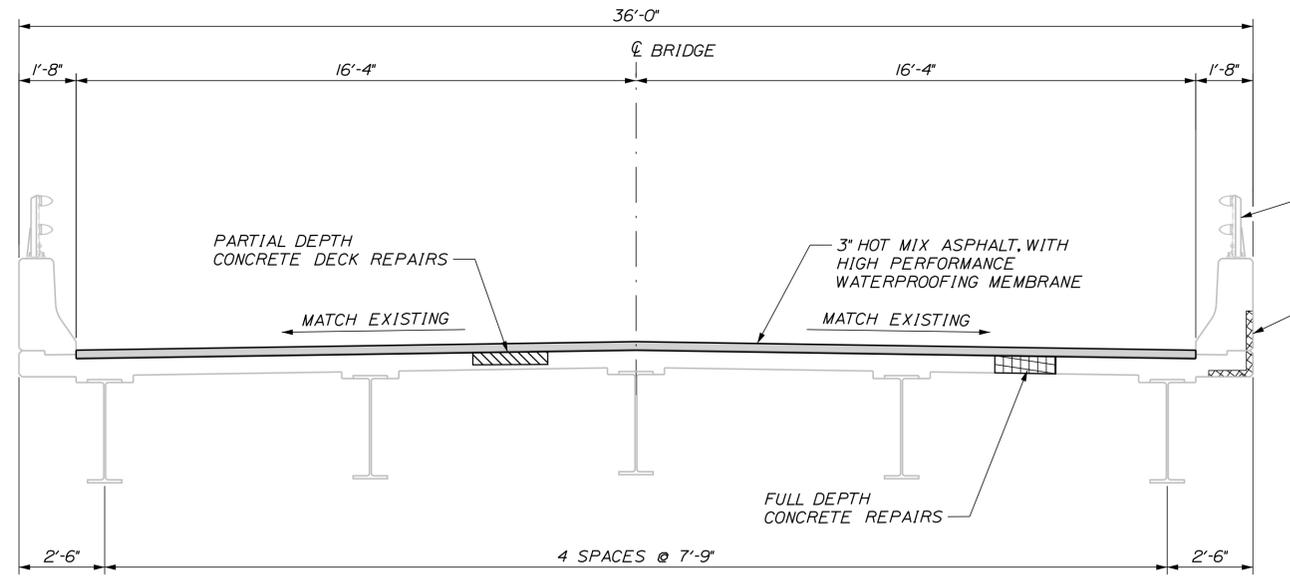
CONTRACT: 2019.11

SHEET NUMBER: RT26-19  
 47 OF 105

Date: 2/22/2019



DECK PLAN  
SCALE: 1" = 20'



TRANSVERSE SECTION  
SCALE: 3/8" = 1'-0"

- LEGEND:**
- LIMITS OF FULL DEPTH CONCRETE REPAIR (REPAIR AREAS TO BE FIELD VERIFIED)
  - LIMITS OF PARTIAL DEPTH CONCRETE DECK REPAIRS (REPAIR AREAS TO BE FIELD VERIFIED)
  - LIMITS OF FASCIA AND OVERHANG REPAIRS (REPAIR AREAS TO BE FIELD VERIFIED)

ROUTE 26 ESTIMATED SUPERSTRUCTURE REPAIR QUANTITIES		
FULL DEPTH CONCRETE DECK REPAIRS (S.F.)	PARTIAL DEPTH CONCRETE DECK REPAIRS (S.F.)	FASCIA AND OVERHANG REPAIRS (S.F.)
5 S.F.	85 S.F.	0 S.F.

- NOTES:**
- CONTRACTOR SHALL REPAIR AREAS OF CONCRETE DECK DETERIORATION AS IDENTIFIED BY THE RESIDENT. RESIDENT SHALL IDENTIFY AND MARK AREAS FOR DECK REPAIR AFTER THE WEARING SURFACE AND MEMBRANE ARE REMOVED. CONTRACTOR SHALL ALSO REPAIR DETERIORATED AREAS OF FASCIA, FASCIA OVERHANGS, AND PARAPET JOINTS. COORDINATE WORK WITH THE RESIDENT. PAYMENT FOR REPAIR WORK SHALL BE UNDER THE 518 PAY ITEMS.
  - ALL PVC DECK WEEPS WHICH DRAIN ONTO PIERS, ABUTMENTS OR STRUCTURAL STEEL SHALL BE EXTENDED AND DIVERTED AWAY FROM BRIDGE COMPONENTS BELOW DECK, AND SHALL EXTEND 1 FT BELOW BOTTOM FLANGE, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE BY THE VARIOUS LABOR AND EQUIPMENT ITEMS. SEE DETAIL SHEET "MISCELLANEOUS DETAILS SHEET 2 OF 35"
  - FOR WORK REQUIRED AT DRAIN TROUGHS, SEE SHEET "TYPICAL DETAILS".
  - A BEAD OF HOT-APPLIED RUBBERIZED ASPHALT SEALER SHALL BE APPLIED ALONG CURB LINES AFTER INSTALLATION OF BASE COURSE. PAYMENT SHALL NOT BE MADE DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.
  - REPAIR EXISTING 2 BAR ALUMINUM BRIDGE RAIL AS DIRECTED BY THE RESIDENT. PAYMENT FOR WORK SHALL BE UNDER ITEM 507.0928, "ALUMINUM BRIDGE RAILING - RAIL SECTION REPLACE".

Filename: ...XXX\_MM\_64.3\_Typical\_Deck\_Plan\_Section.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:  
**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed	DSM 10/2018	Checked	DSM 1/2019
Drawn	SAM 11/2018	In Charge of	DSM 1/2019

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12 Northbrook Drive  
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TEL: (207) 781-4721  
FAX: (207) 781-4753

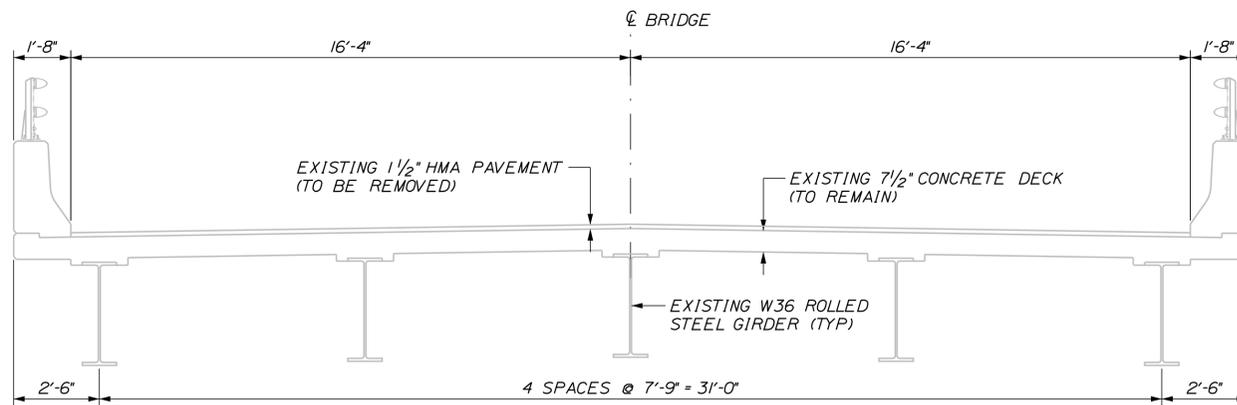
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

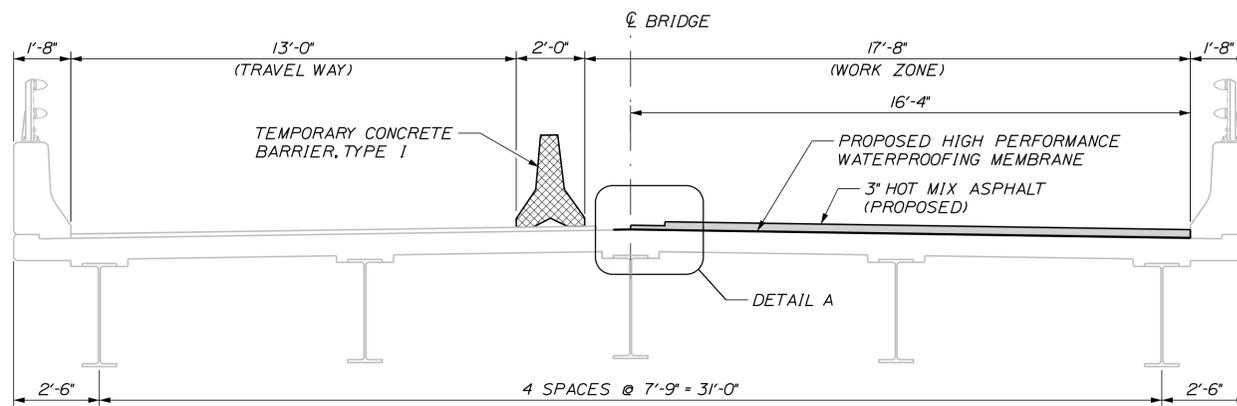
NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
DECK PLAN & SECTION

SHEET NUMBER: RT26-20  
CONTRACT: 2019.11  
48 OF 105

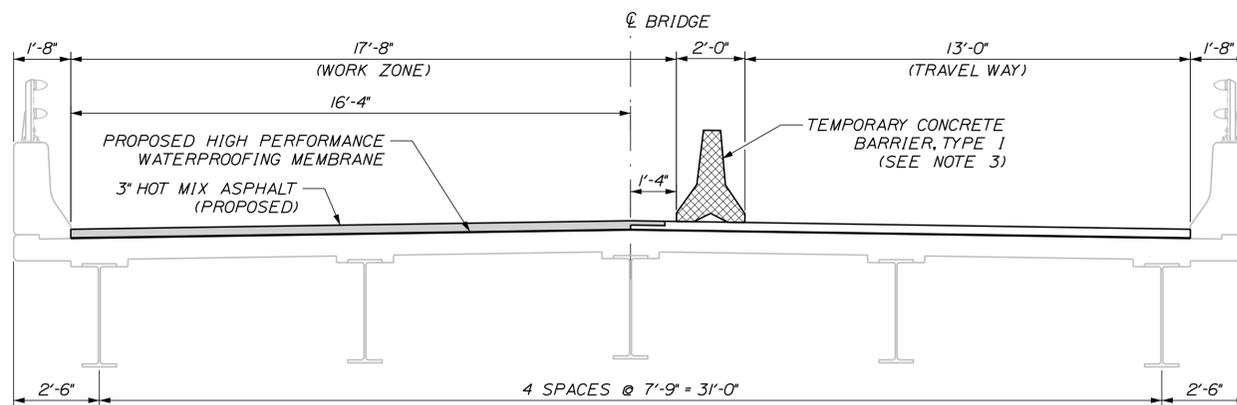
Date: 2/22/2019



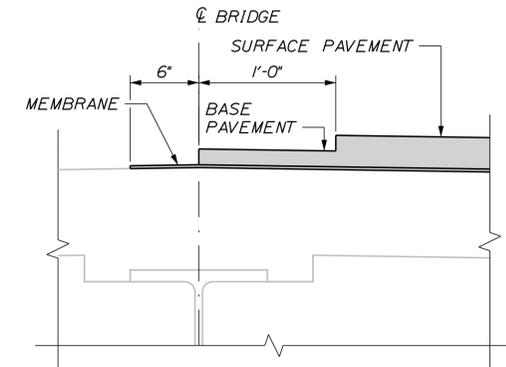
**EXISTING BRIDGE**  
3/8" = 1'-0"



**PHASE 1**  
3/8" = 1'-0"



**PHASE 2**  
3/8" = 1'-0"



**DETAIL A**  
1/2" = 1'-0"

**PHASING NOTES:**

- SUGGESTED SEQUENCE OF CONSTRUCTION:**  
**PHASE 1:**  
 SHIFT ALL TRAFFIC TO NORTH SIDE OF BRIDGE, ONE-WAY ALTERNATING. REHAB & CONSTRUCT SOUTH SIDE BRIDGE & APPROACHES (EXCEPT JOINT BLOCKOUT).  
**FULL CLOSURE:**  
 CLOSE ALL TRAFFIC AND JACK SUPERSTRUCTURE TO FINAL GRADE. COMPLETE SOUTH SIDE JOINT. RESET TEMPORARY CONCRETE BARRIER.  
**PHASE 2:**  
 SHIFT ALL TRAFFIC TO SOUTH SIDE OF BRIDGE, ONE-WAY ALTERNATING. REHAB & CONSTRUCT NORTH SIDE BRIDGE & APPROACHES. PLACE BARRIER ONTO SHEETS OF PLYWOOD IF FINAL PAVEMENT COMPLETE. OPEN BRIDGE TO ALL TRAFFIC.
- SEE SHEET "STRIP SEAL EXPANSION JOINT - 1 OF 2" FOR EXPANSION JOINT SUGGESTED SEQUENCE OF CONSTRUCTION.
- TEMPORARY CONCRETE BARRIER PLACED ON NEW HOT MIX ASPHALT SHALL BE PLACED ON PLYWOOD AS DIRECTED BY THE RESIDENT TO PREVENT DAMAGE TO THE ASPHALT SURFACE. COSTS FOR PLYWOOD SHALL BE INCIDENTAL TO ITEM 526.306, "TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY THE AUTHORITY".

Filename: ...XXX\_MM\_64.3\_Bridge\_Phasing.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	SAM	1/2019	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
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 TEL: (207) 781-4721  
 FAX: (207) 781-4753



**MAINE  
TURNPIKE**

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 BRIDGE PHASING

SHEET NUMBER: RT26-21  
 CONTRACT: 2019.11  
 49 OF 105

Date: 2/22/2019

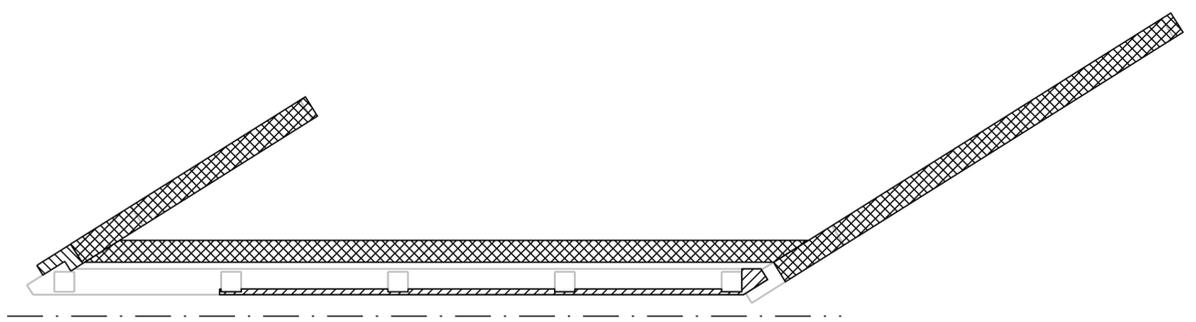
Filename: ... \MSTA\XXX\_MM\_64\_3\_Abutments.dgn

ROUTE 26 (MILE 64.3) ABUTMENTS ESTIMATED QUANTITY OF REPAIRS			
	ABUT. NO. 1	ABUT. NO. 2	TOTAL
ABUTMENT REPAIRS	415 S.F.	105 S.F.	520 S.F.
EPOXY-INJECTED CRACK REPAIRS	0 L.F.	35 L.F.	35 L.F.

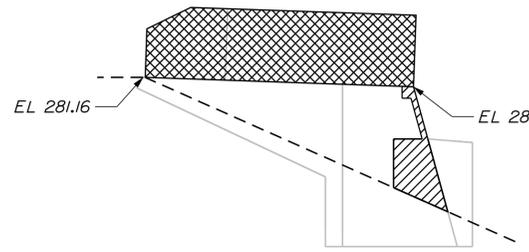
**NOTE:**  
1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

**LEGEND:**

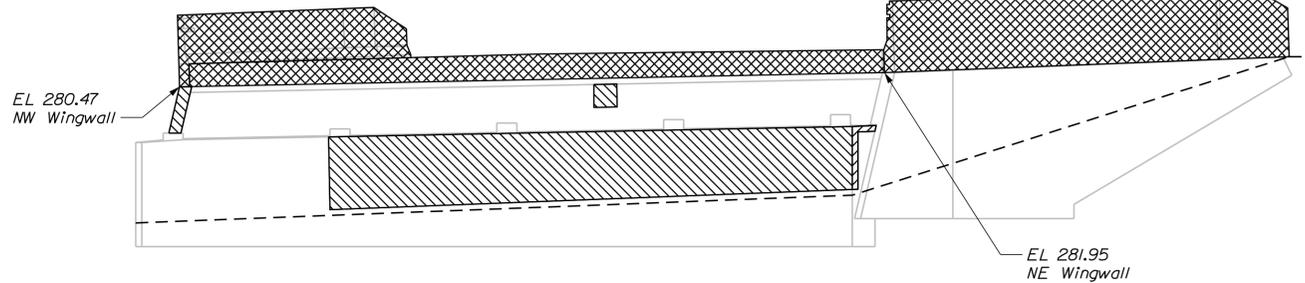
	LIMIT OF CONCRETE REMOVAL
	LIMIT OF CONCRETE SURFACE REPAIRS
	LIMIT OF EPOXY INJECTED CRACK REPAIRS
	EXISTING CONCRETE
	EXISTING AND PROPOSED GROUND



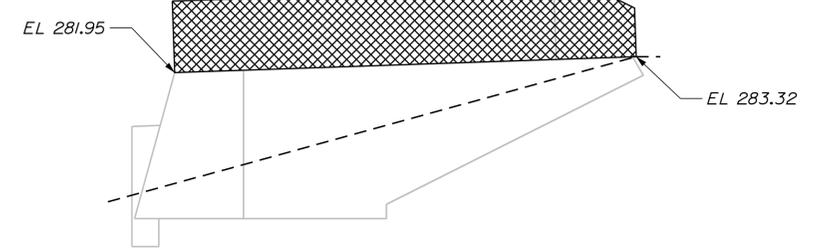
ABUTMENT NO. 1 PLAN



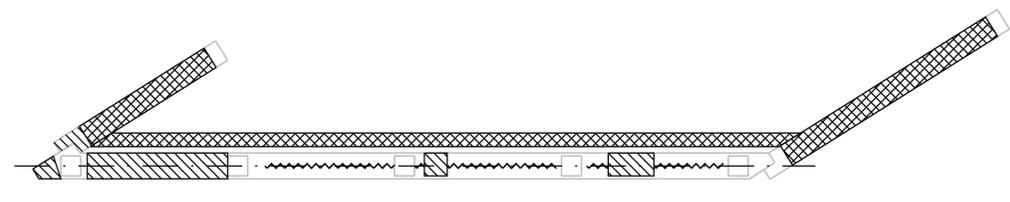
LEFT WING ELEVATION



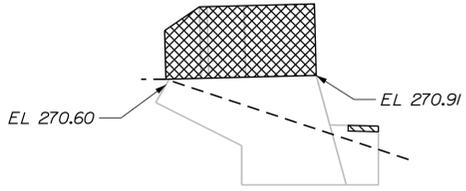
ABUTMENT NO. 1 ELEVATION



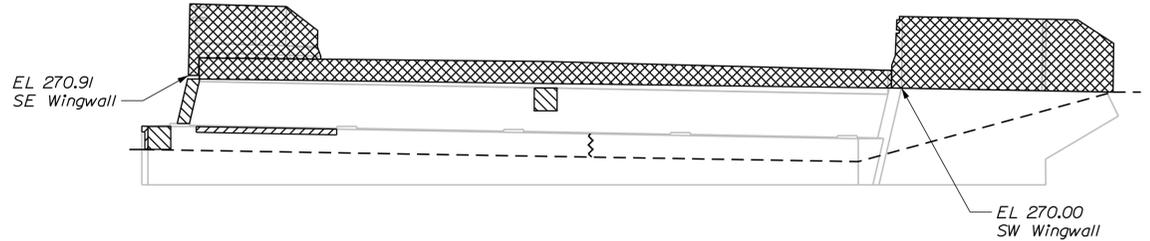
RIGHT WING ELEVATION



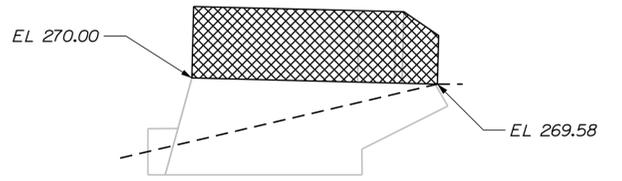
ABUTMENT NO. 2 PLAN



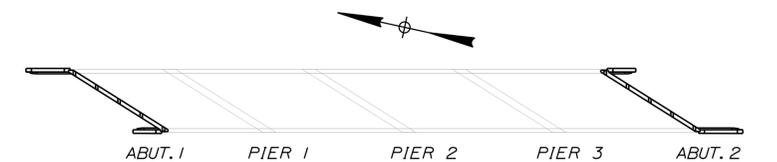
LEFT WING ELEVATION



ABUTMENT NO. 2 ELEVATION



RIGHT WING ELEVATION



LOCATION PLAN

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date	
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	JJL	11/2018	In Charge of	DSM	1/2019

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Falmouth, Maine 04105  
TEL: (207) 781-4721  
FAX: (207) 781-4753

**THE GOLD STAR MEMORIAL HIGHWAY**

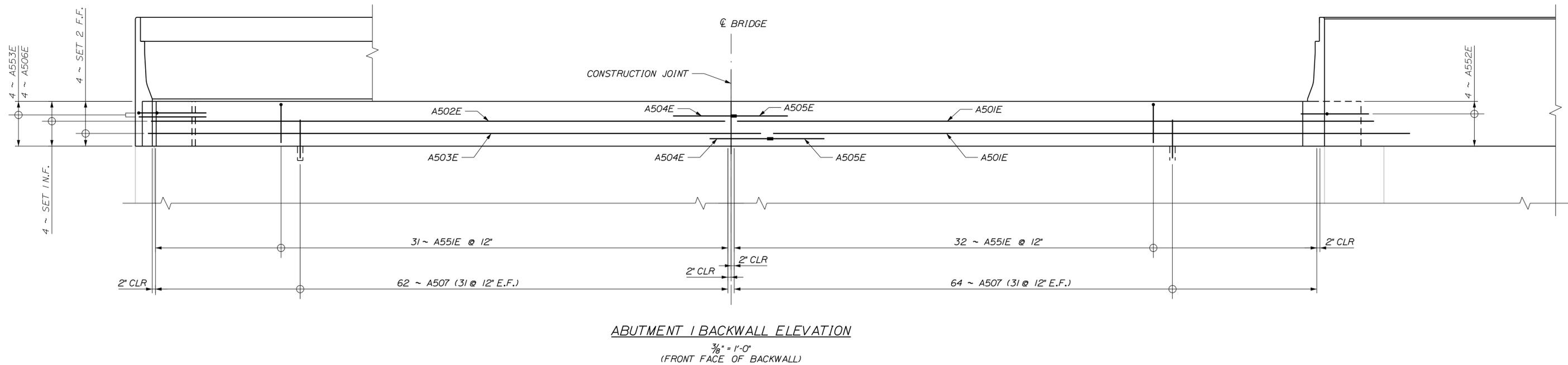
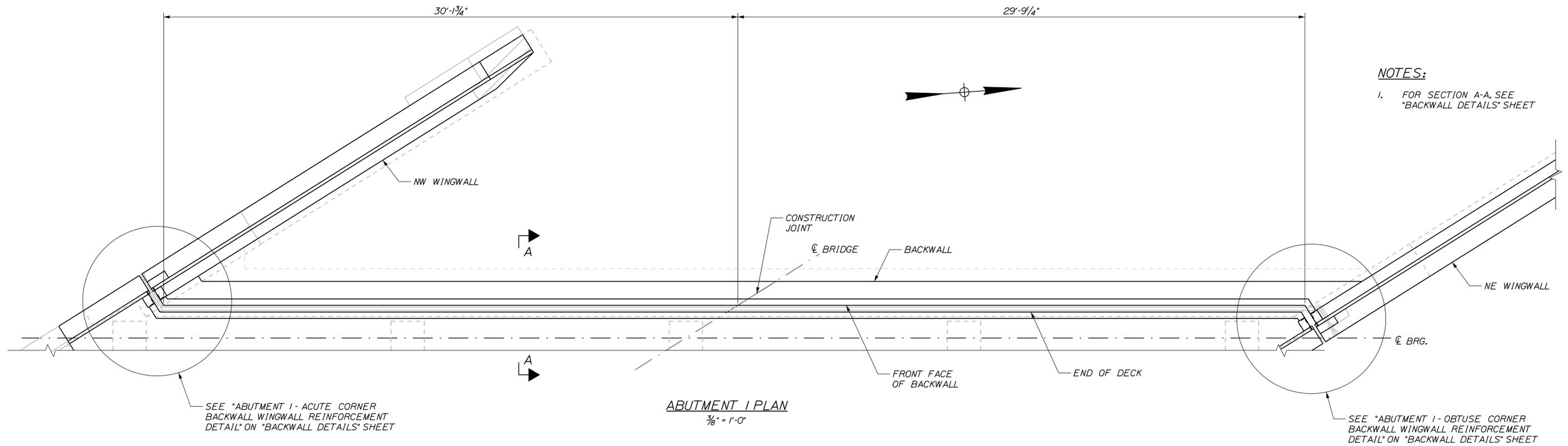
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
ABUTMENT REMOVAL & REPAIRS

SHEET NUMBER: RT26-22  
CONTRACT: 2019.11  
50 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Plan & Elevation\_Abument\_1.dgn



Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
	JJL	12/2018		BLT	1/2019
Drawn	By	Date	In Charge of	By	Date
	JJL	1/2019		DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
PLAN & ELEVATION - ABUTMENT 1

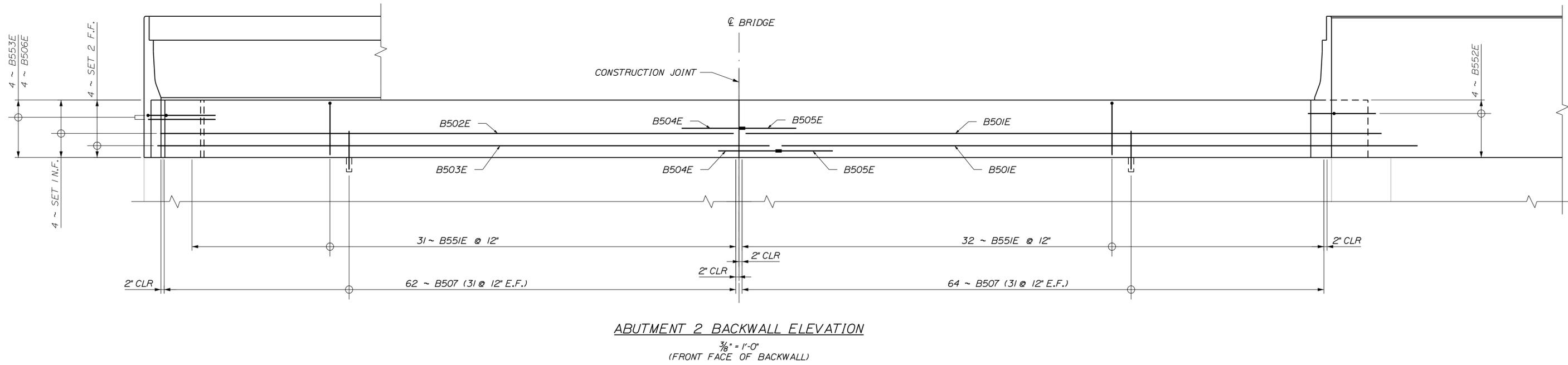
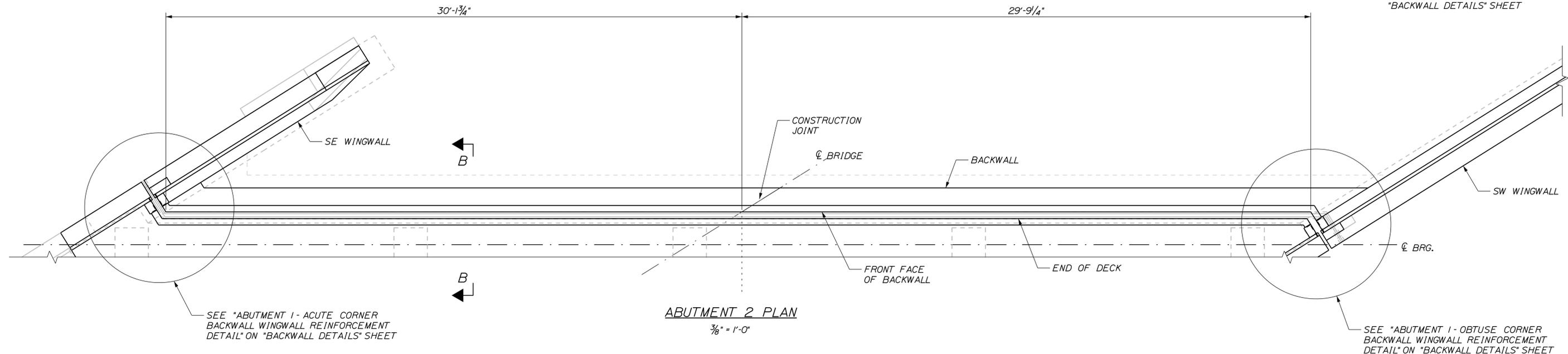
SHEET NUMBER: RT26-23  
CONTRACT: 2019.11  
51 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Plan & Elevation\_Abument\_2.dgn



**NOTES:**  
 1. FOR SECTION B-B, SEE "BACKWALL DETAILS" SHEET



Scale: AS NOTED

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	JJL	12/2018	Checked	BLT	1/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

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 Falmouth, Maine 04105  
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 FAX: (207) 781-4753

**THE GOLD STAR MEMORIAL HIGHWAY**

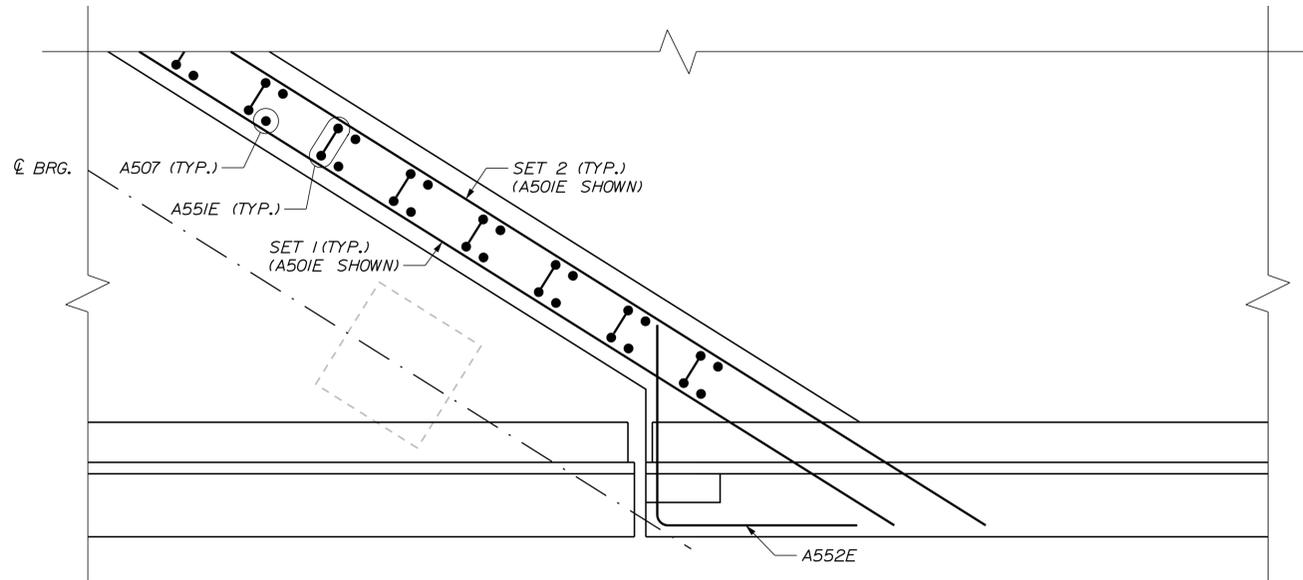
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 PLAN & ELEVATION - ABUTMENT 2

CONTRACT: 2019.11

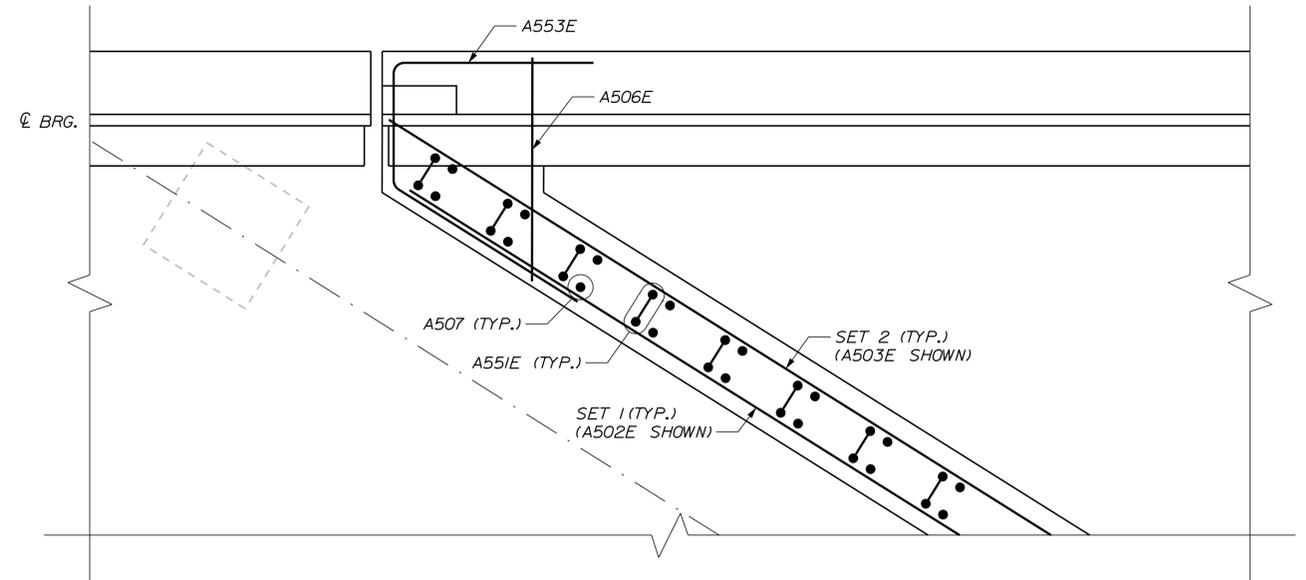
SHEET NUMBER: RT26-24  
 52 OF 105

Date: 2/22/2019



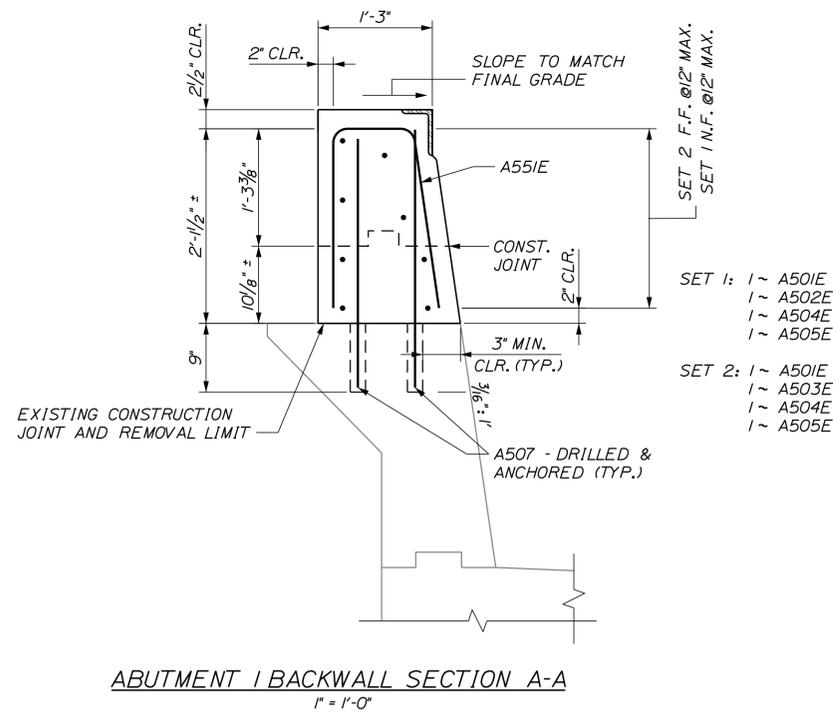
**ABUTMENT 1 - OBTUSE CORNER BACKWALL  
WINGWALL REINFORCEMENT DETAIL**

3/4" = 1'-0"  
WINGWALL BARS NOT SHOWN FOR CLARITY  
(ABUTMENT 2 SIMILAR)

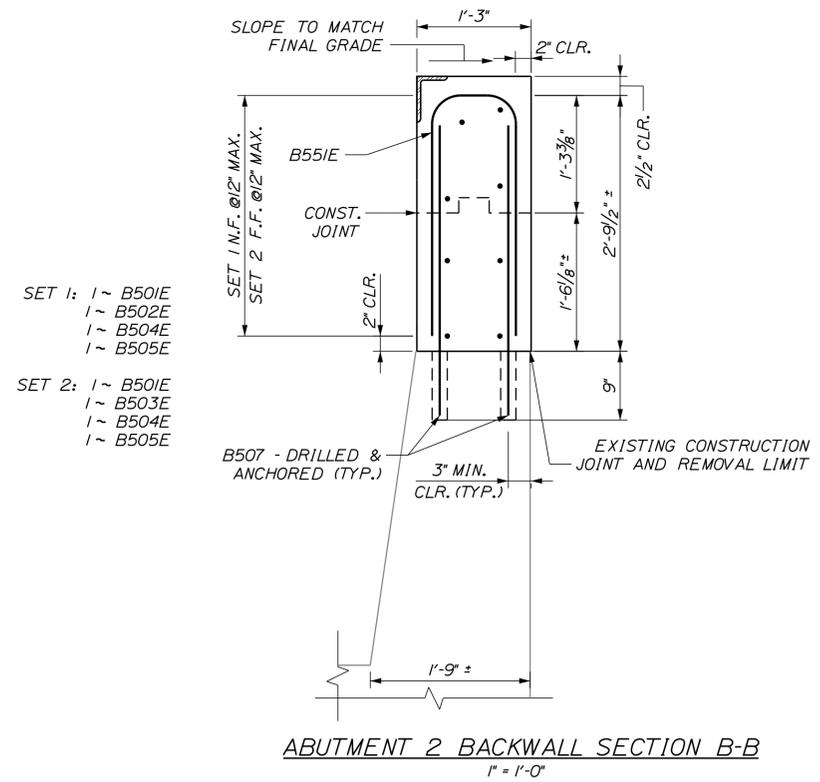


**ABUTMENT 1 - ACUTE CORNER BACKWALL  
WINGWALL REINFORCEMENT DETAIL**

3/4" = 1'-0"  
WINGWALL BARS NOT SHOWN FOR CLARITY  
(ABUTMENT 2 SIMILAR)



**ABUTMENT 1 BACKWALL SECTION A-A**  
1" = 1'-0"



**ABUTMENT 2 BACKWALL SECTION B-B**  
1" = 1'-0"

**NOTES:**

- FOR SECTION LOCATION A-A, SEE "PLAN & ELEVATION - ABUTMENT 1" SHEET
- FOR SECTION LOCATION B-B, SEE "PLAN & ELEVATION - ABUTMENT 2" SHEET
- FOR JOINT SUPPORT HARDWARE, SEE "STRIP SEAL EXPANSION JOINT" SHEETS.

Filename: ...XXX\_MM\_64.3\_Backwall\_Details.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	JJL	1/2019	Checked	CPT	2/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

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Falmouth, Maine 04105  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

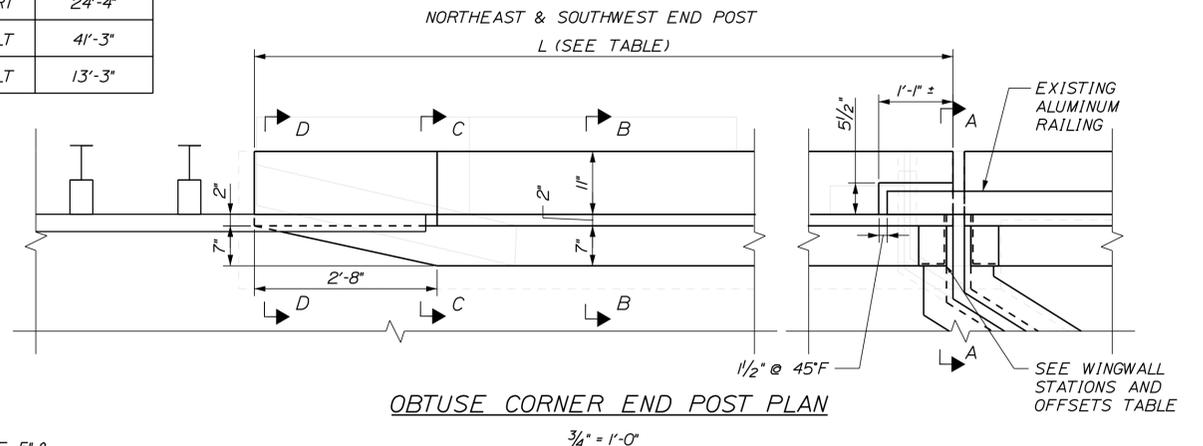
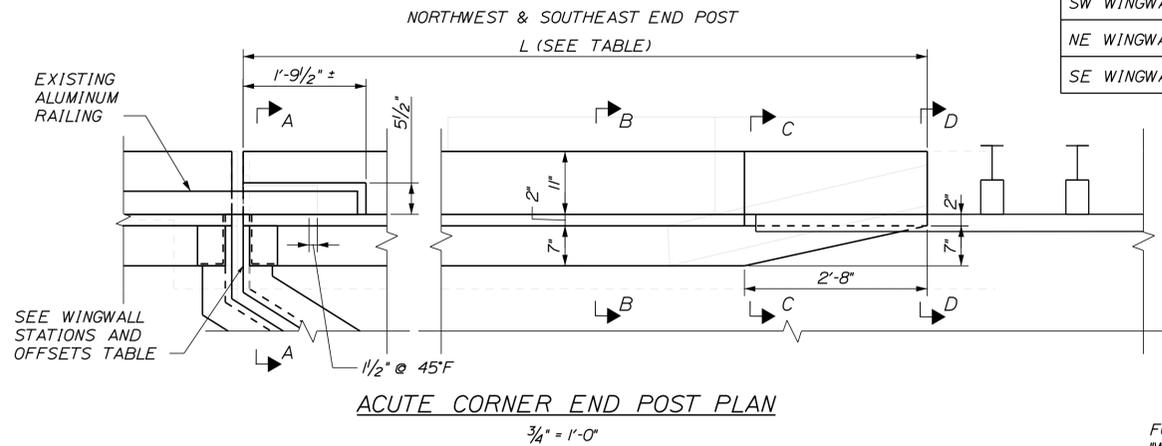
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
BACKWALL DETAILS

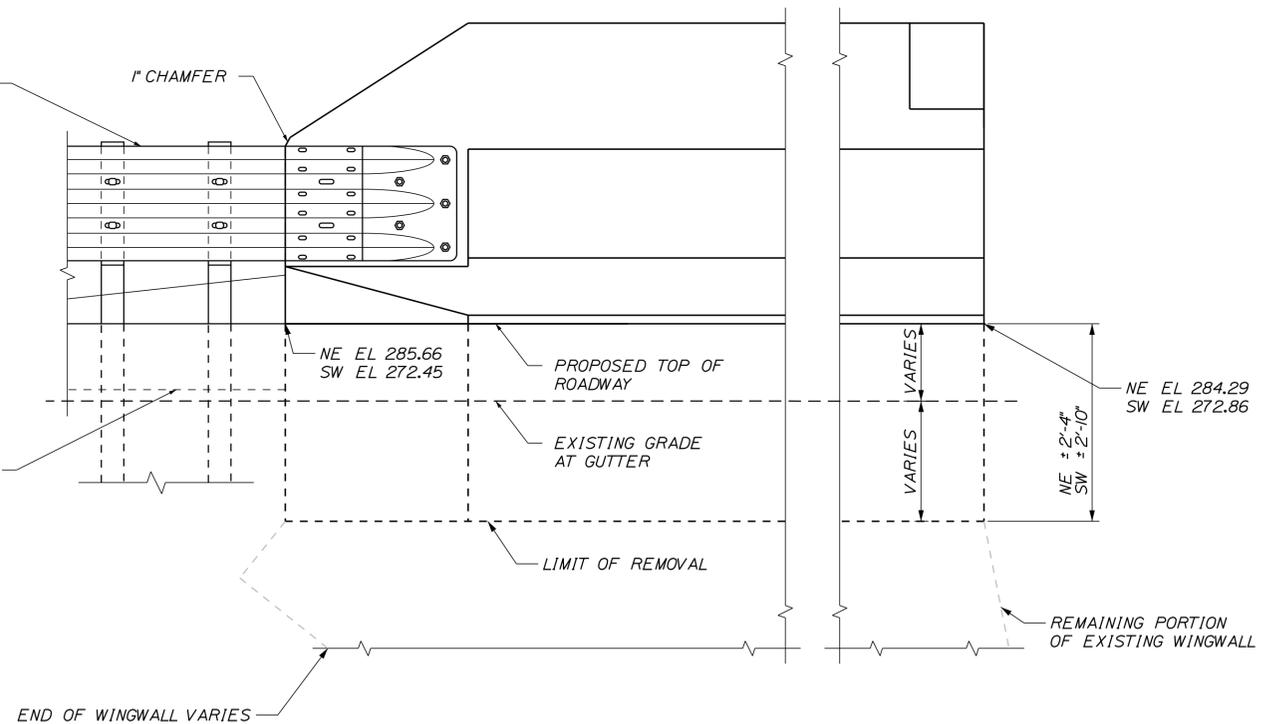
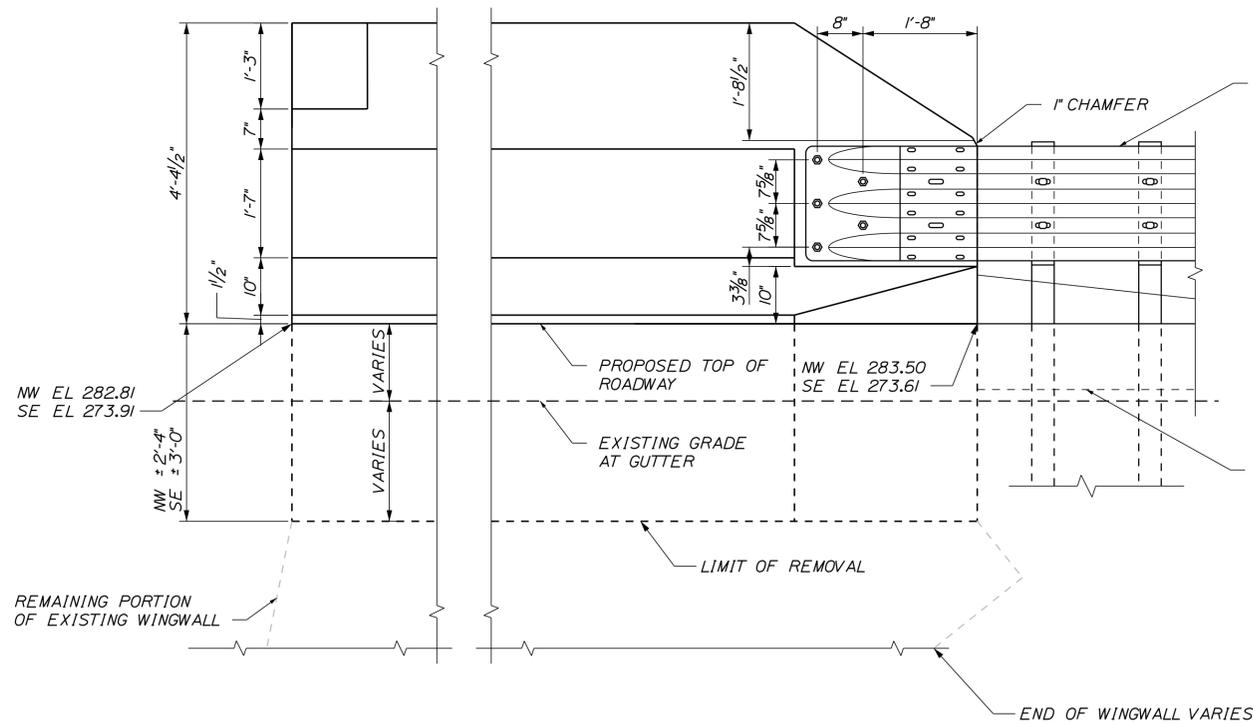
SHEET NUMBER: RT26-25  
CONTRACT: 2019.11  
53 OF 105

Date: 2/22/2019

WINGWALL STATIONS AND OFFSETS			
WINGWALL LOCATION	STATION	OFFSET	LENGTH "L"
NW WINGWALL	73+10.88	16.33' RT	23'-7"
SW WINGWALL	76+68.83	16.33' RT	24'-4"
NE WINGWALL	72+60.09	16.33' LT	41'-3"
SE WINGWALL	76+18.04	16.33' LT	13'-3"



FOR SECTIONS, SEE SHEET  
 \*WINGWALL MODIFICATIONS - 2 OF 5\* &  
 \*WINGWALL MODIFICATIONS - 4 OF 5\*



FOR BRIDGE TRANSITION ATTACHMENT, SEE "GUARDRAIL DETAILS" SHEET. PAYMENT SHALL BE INCLUDED IN RELATED ITEMS.

(SEE ACUTE CORNER FOR DIMENSIONS NOT SHOWN)

Filename: ...XXX\_MM\_64.3\_Wingwall\_Mod\_1.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>			
CONSULTANT PROJECT MANAGER: Daniel S. Myers			
Designed	JJL	1/2019	Checked
Drawn	JJL	1/2019	In Charge of

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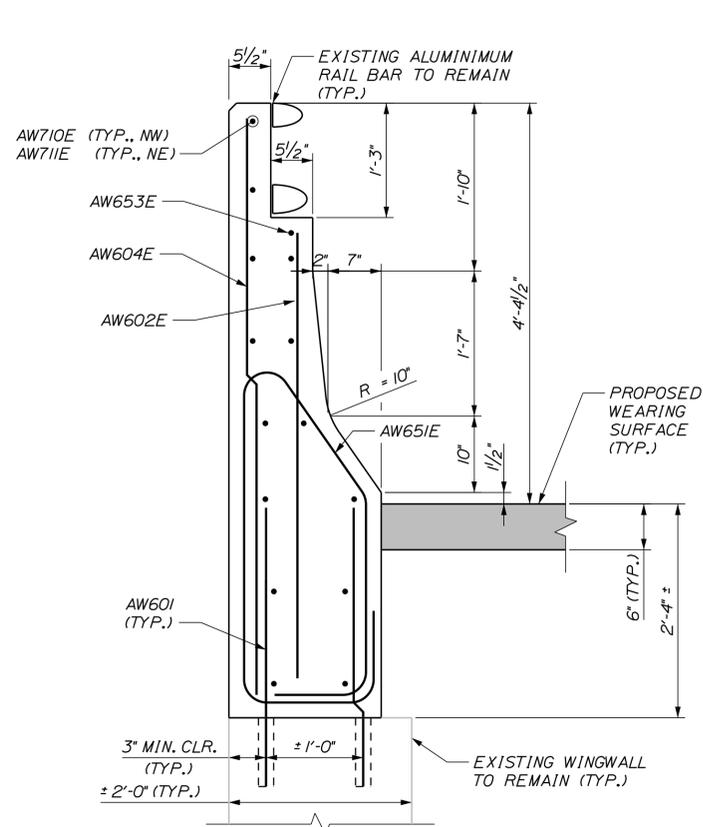
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

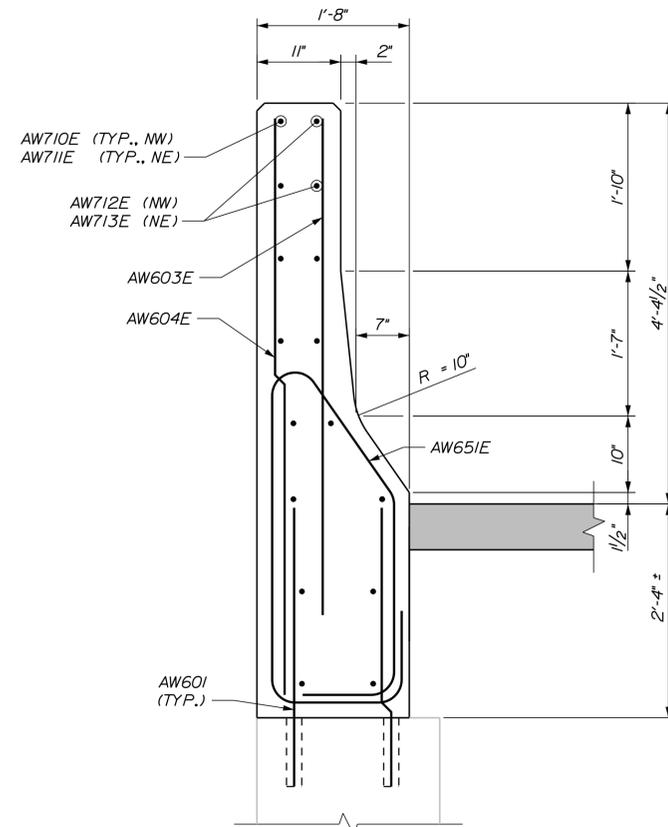
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 WINGWALL MODIFICATIONS - 1 OF 5

SHEET NUMBER: RT26-26  
 CONTRACT: 2019.11  
 54 OF 105

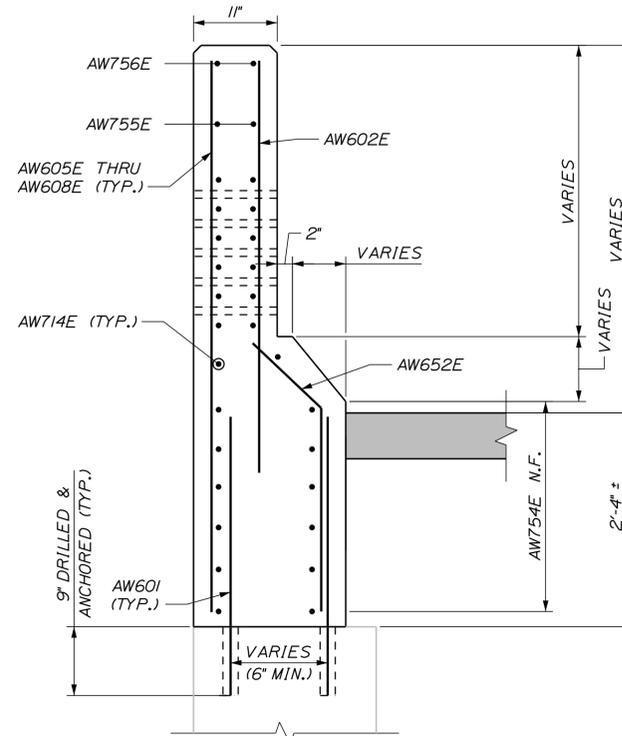
Date: 2/22/2019



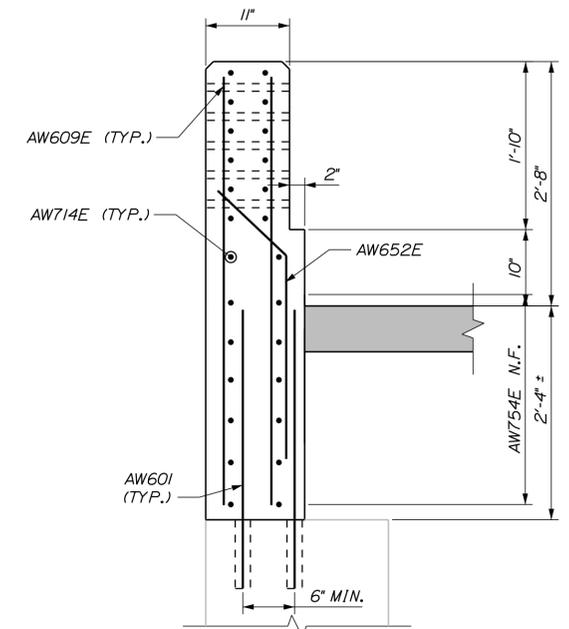
ABUTMENT I SECTION A-A



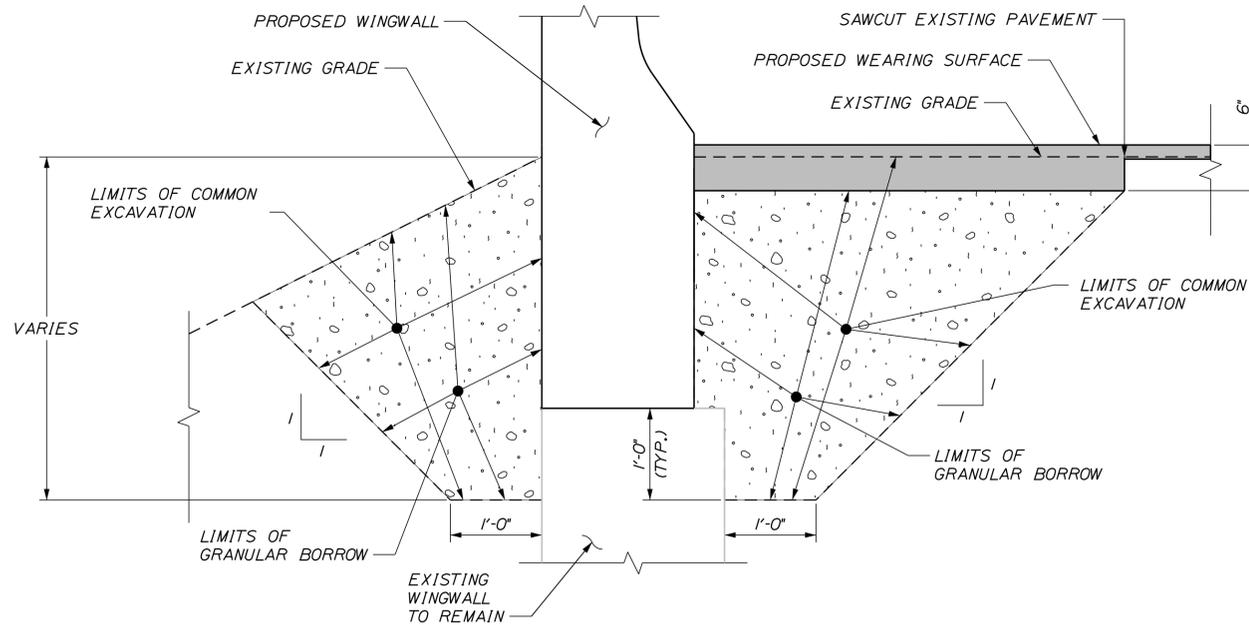
ABUTMENT I SECTION B-B



ABUTMENT I SECTION C-C



ABUTMENT I SECTION D-D



TYPICAL WINGWALL EARTHWORK LIMITS

**NOTE:**  
FOR LOCATIONS OF SECTIONS A-A, B-B, C-C AND D-D, SEE SHEET "WINGWALL MODIFICATIONS - 1 OF 5"

Filename: ...XXX\_MM\_64.3\_Wingwall\_Mod\_2.dgn

Scale:			
1" = 1'-0"			
No.	Revision	By	Date

Designed by:			
<b>TYLIN INTERNATIONAL</b>			
CONSULTANT PROJECT MANAGER: Daniel S. Myers			
	By	Date	
	JJL	12/2018	
	Checked		By
			DSM
			12/2018
	Drawn	JJL	12/2018
		In Charge of	DSM
			1/2019

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FAX: (207) 781-4753



**MAINE  
TURNPIKE**

**THE GOLD STAR  
MEMORIAL HIGHWAY**

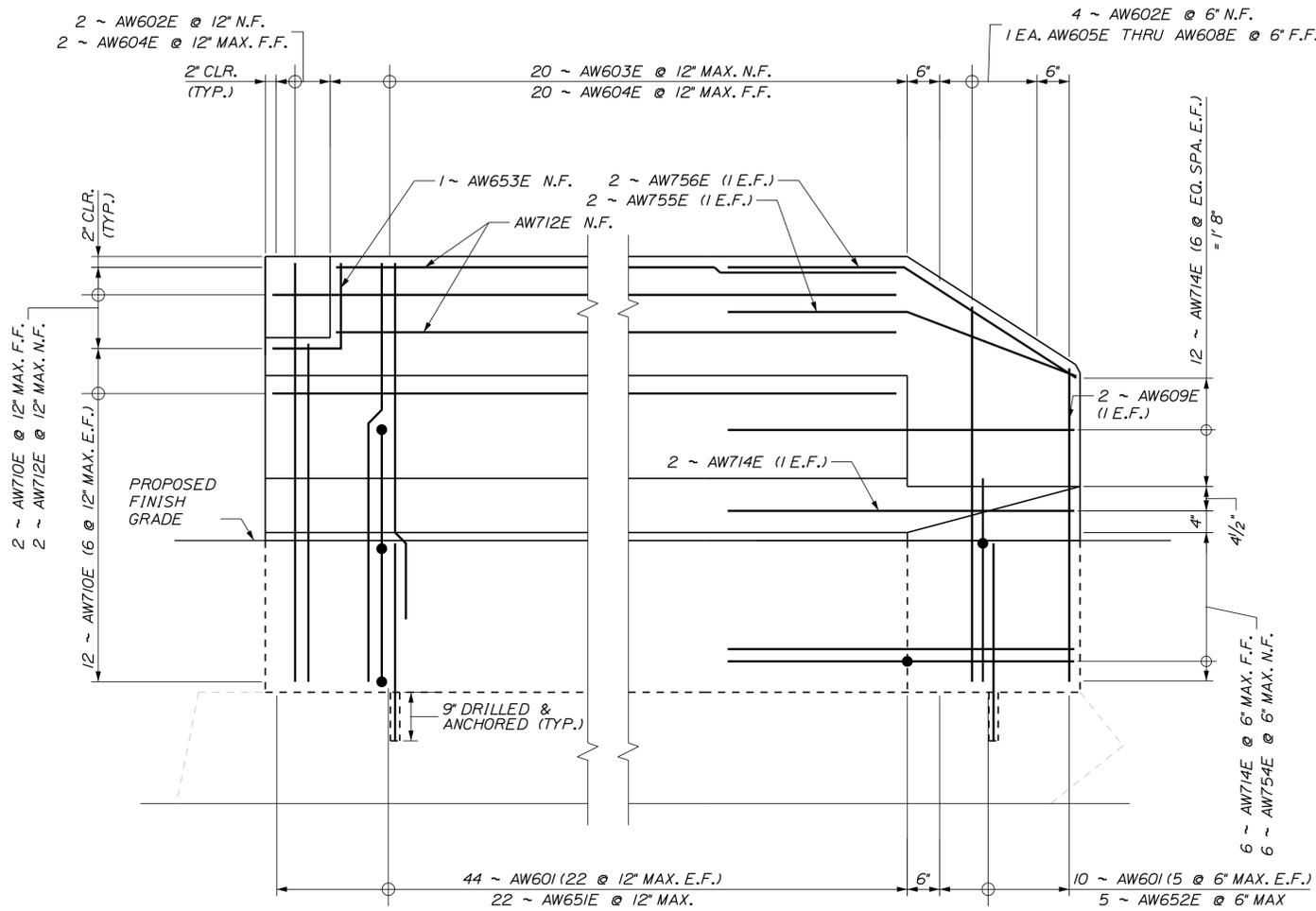
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
WINGWALL MODIFICATIONS - 2 OF 5

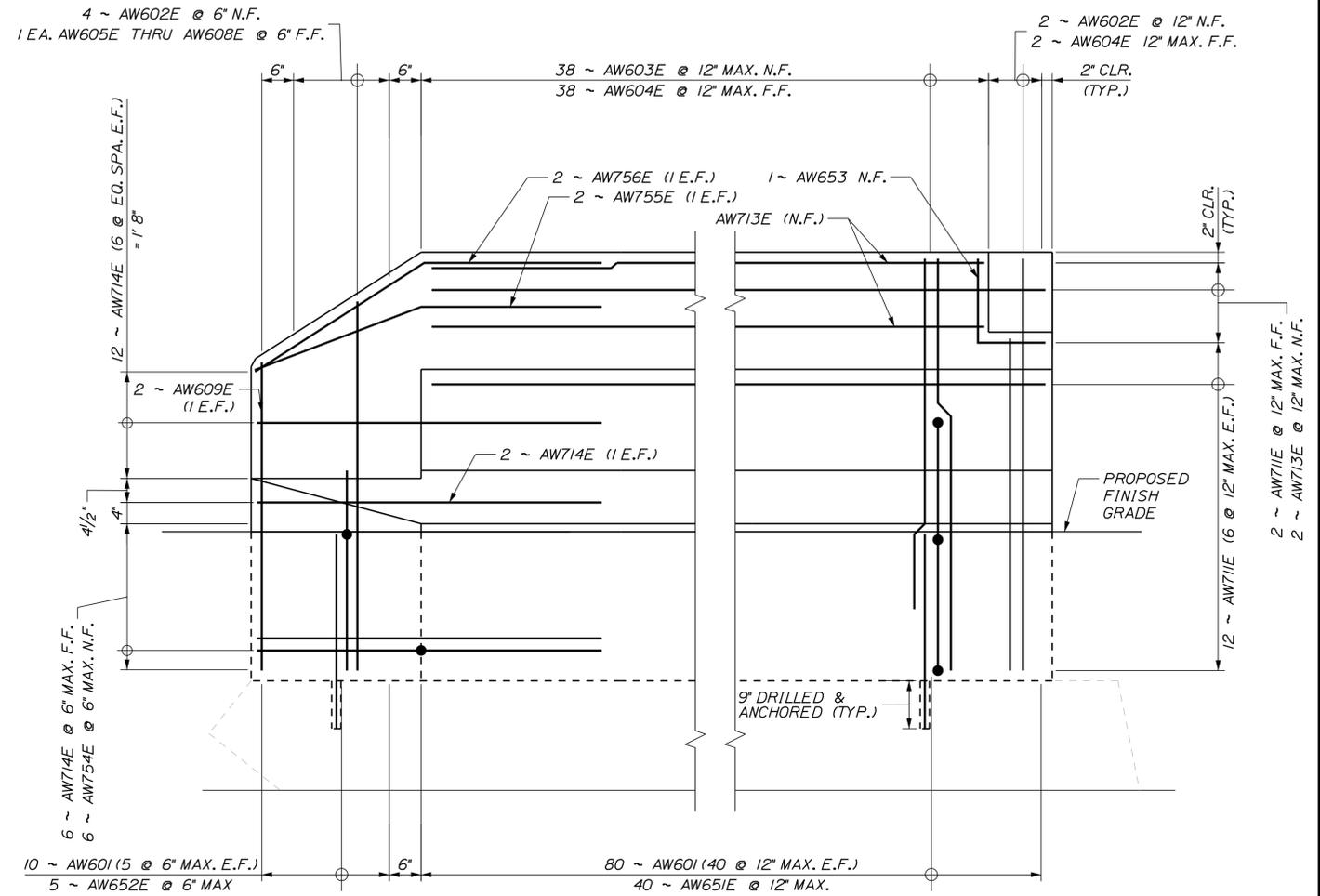
SHEET NUMBER: RT26-27  
CONTRACT: 2019.11  
55 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Wingwall\_Mod\_3.dgn



NORTHWEST WINGWALL REINFORCEMENT ELEVATION



NORTHEAST WINGWALL REINFORCEMENT ELEVATION

**LEGEND:**

N.F. = NEAR FACE  
F.F. = FAR FACE  
E.F. = EACH FACE

**MIN. LAPS**

#7 = 2'-7"

Scale: 3/4" = 1'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed	JJL 1/2019	Checked	BLT 1/2019
Drawn	JJL 1/2019	In Charge of	DSM 1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

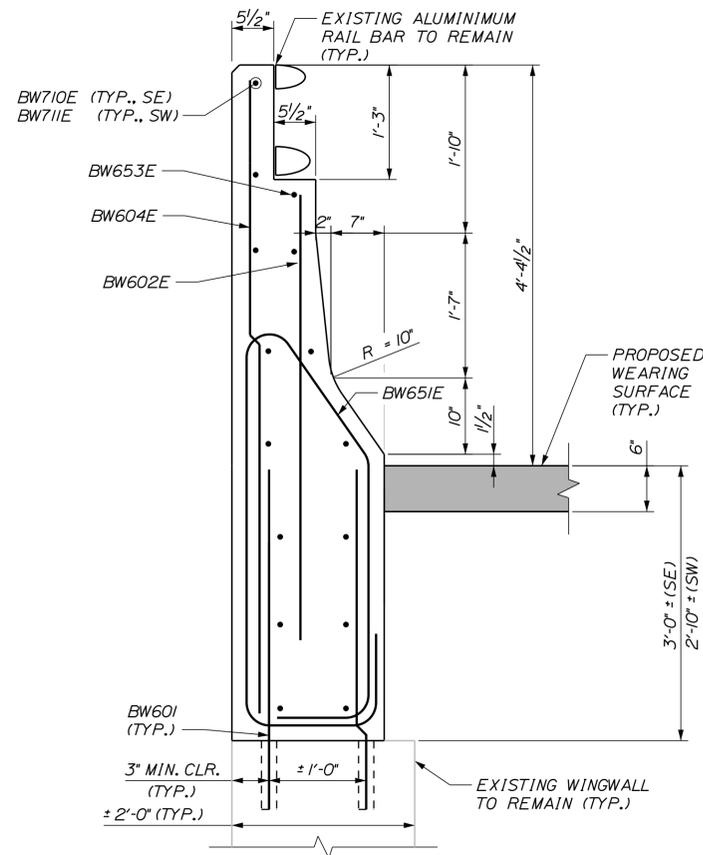
NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
WINGWALL MODIFICATIONS - 3 OF 5

CONTRACT: 2019.11

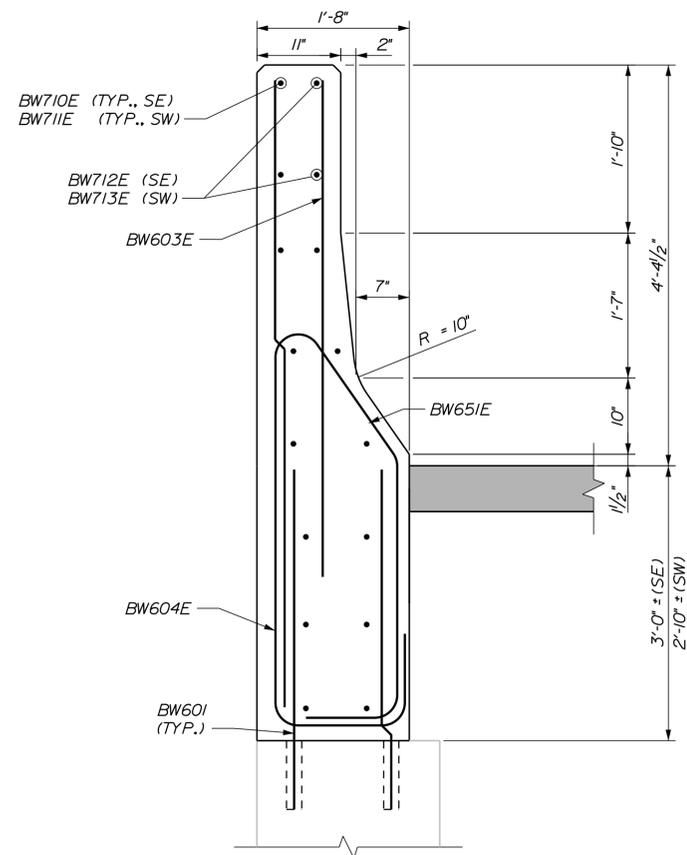
SHEET NUMBER: RT26-28

56 OF 105

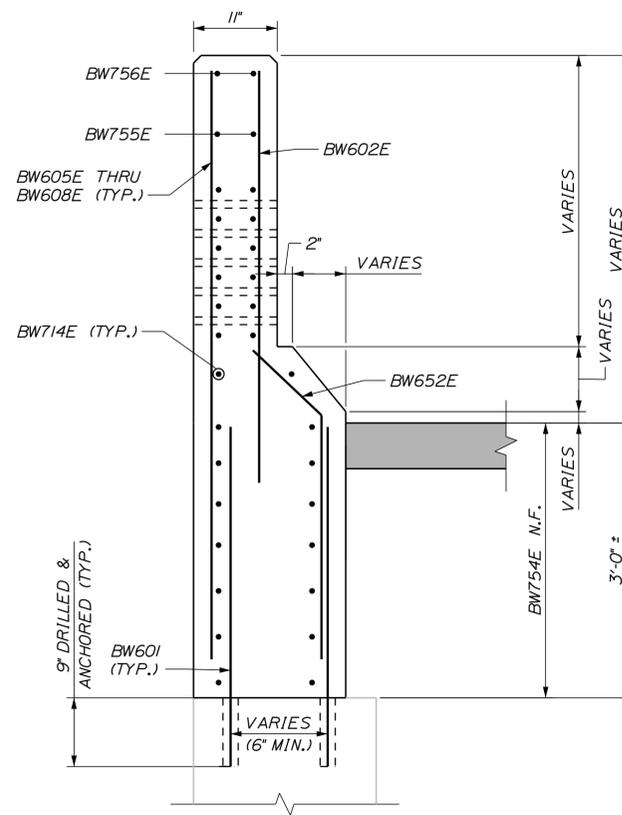
Date: 2/22/2019



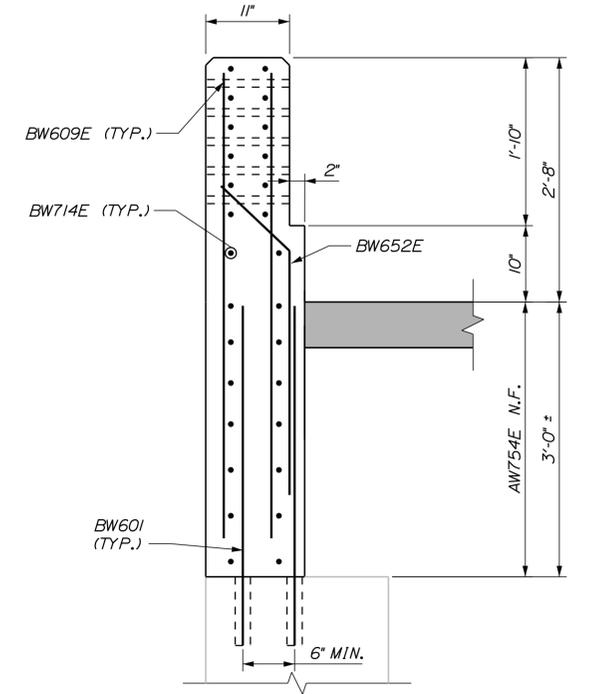
ABUTMENT 2 SECTION A-A



ABUTMENT 2 SECTION B-B

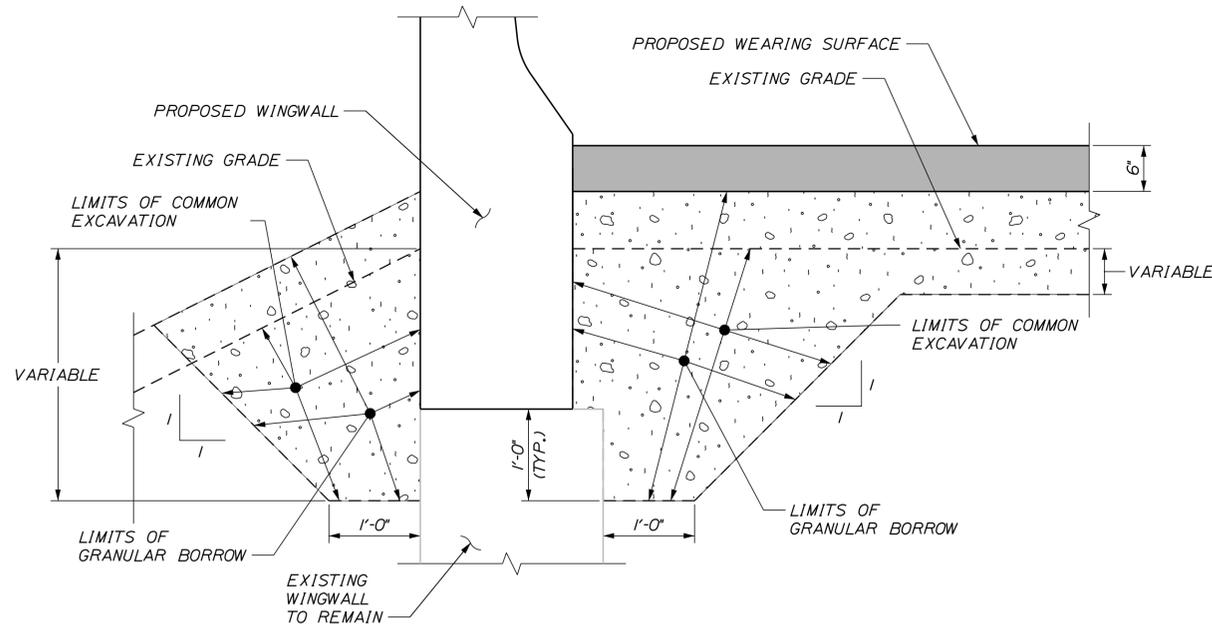


SOUTHWEST WINGWALL SECTION C-C

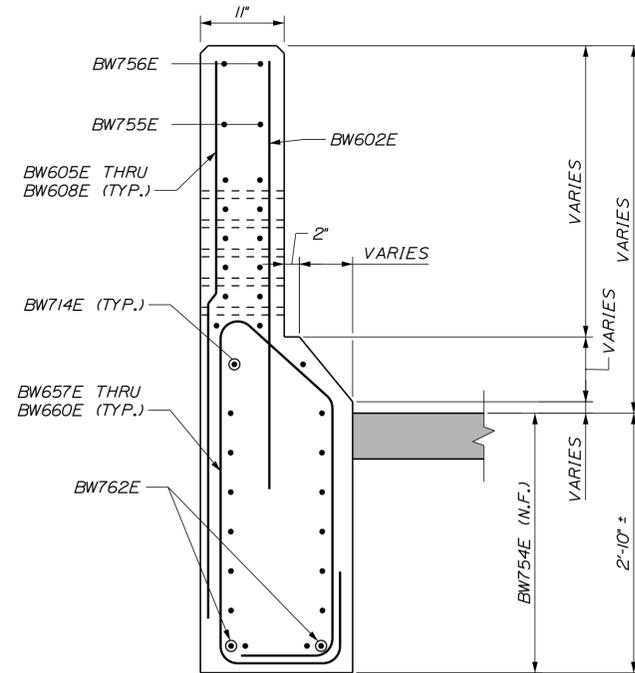


SOUTHWEST WINGWALL SECTION D-D

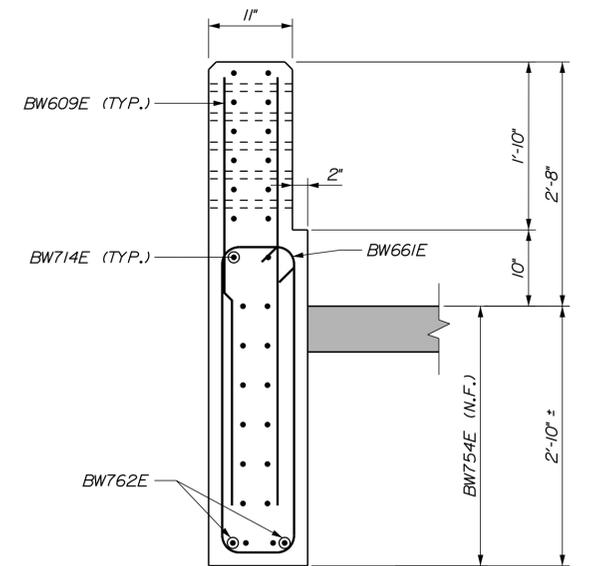
NOTE:  
FOR LOCATIONS OF SECTIONS A-A, B-B, C-C AND D-D, SEE SHEET "WINGWALL MODIFICATIONS - 1 OF 5"



TYPICAL WINGWALL EARTHWORK LIMITS



SOUTHEAST WINGWALL SECTION C-C



SOUTHEAST WINGWALL SECTION D-D

Filename: ...XXX\_MM\_64.3\_Wingwall\_Mod\_4.dgn

Scale:			
1" = 1'-0"			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	JJL	12/2018	In Charge of	BLT	1/2019
	JJL	12/2018		DSM	1/2019

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
WINGWALL MODIFICATIONS - 4 OF 5

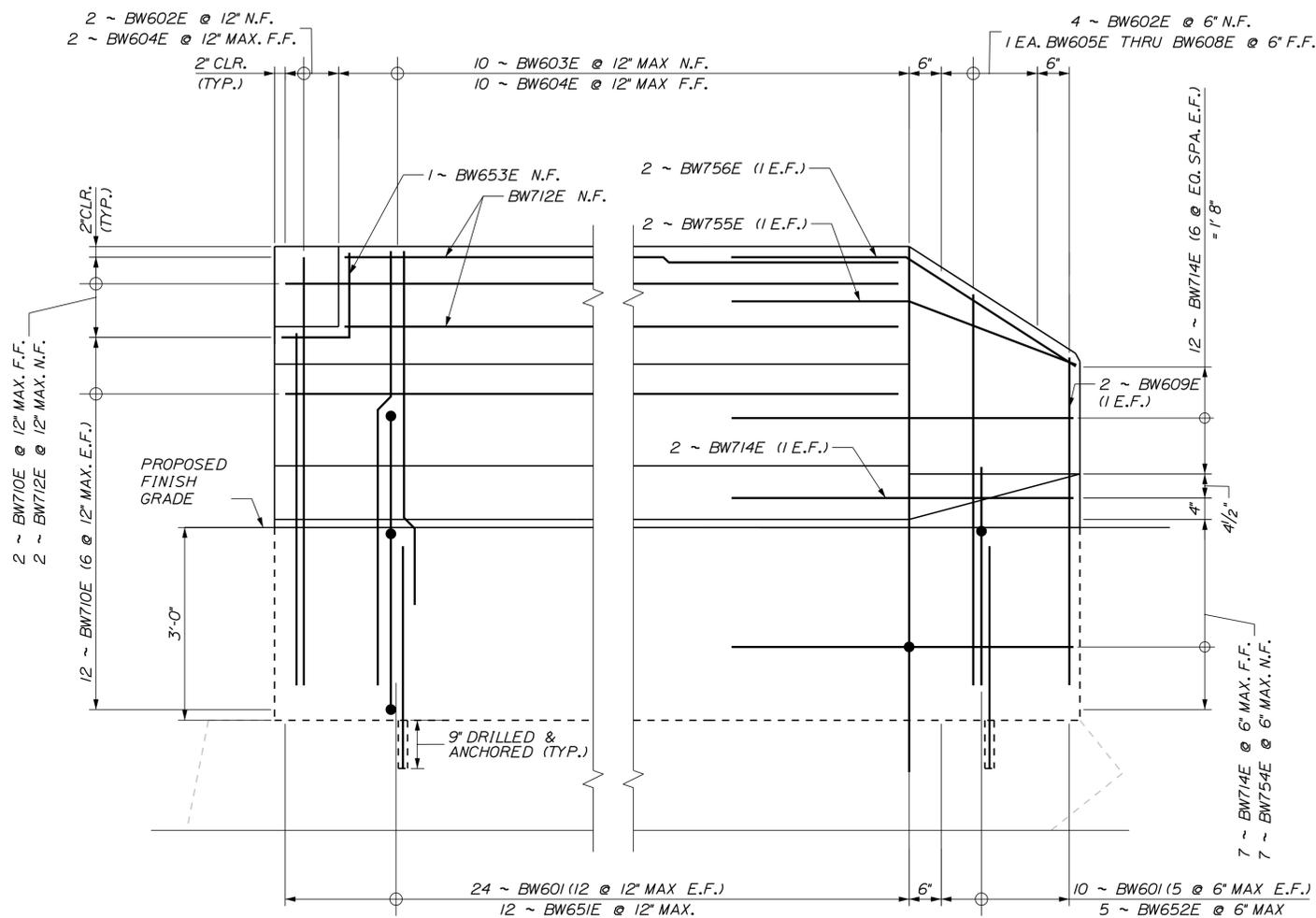
CONTRACT: 2019.11

SHEET NUMBER: RT26-29

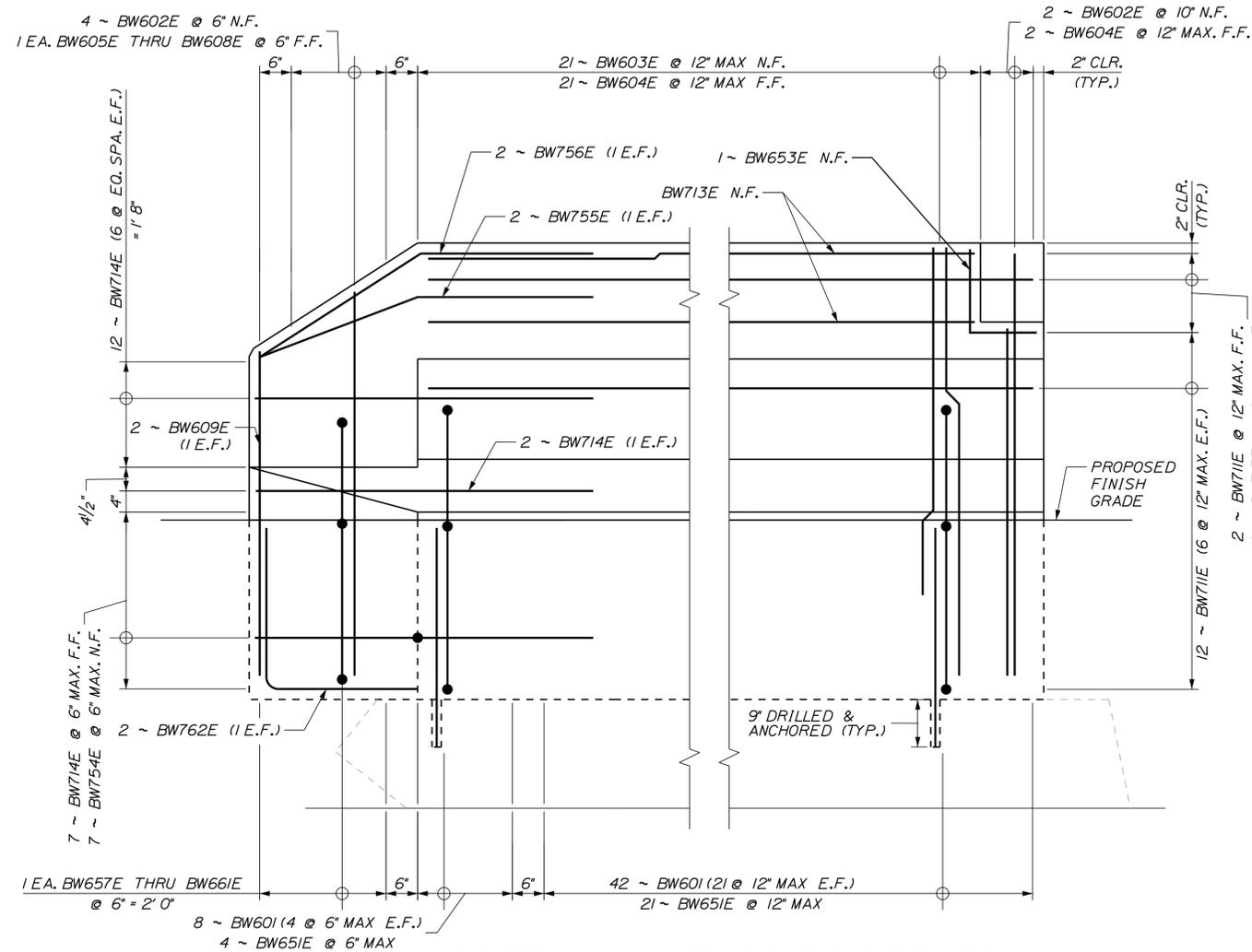
57 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Wingwall\_Mod\_5.dgn



SOUTHEAST WINGWALL REINFORCEMENT ELEVATION



SOUTHWEST WINGWALL REINFORCEMENT ELEVATION

**LEGEND:**

N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

**MIN. LAPS**

\*7 = 2'-7"

Scale: 3/4" = 1'-0"

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	JJL	1/2019	Checked	BLT	1/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 WINGWALL MODIFICATIONS - 5 OF 5

CONTRACT: 2019.11

SHEET NUMBER: RT26-30

58 OF 105

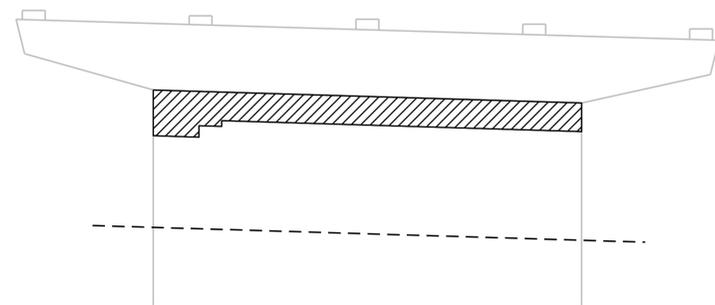
ROUTE 26 (MILE 64.3) PIERS ESTIMATED QUANTITY OF REPAIRS				
	PIER NO. 1	PIER NO. 2	PIER NO. 3	TOTAL
PIER REPAIRS	236	750 S.F.	169 S.F.	1155 S.F.

**NOTE:**  
1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

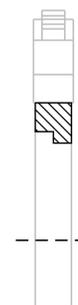
- LEGEND:**
- LIMIT OF CONCRETE SURFACE REPAIRS
  - LIMIT OF EPOXY INJECTED CRACK REPAIRS
  - EXISTING CONCRETE
  - EXISTING AND PROPOSED GROUND



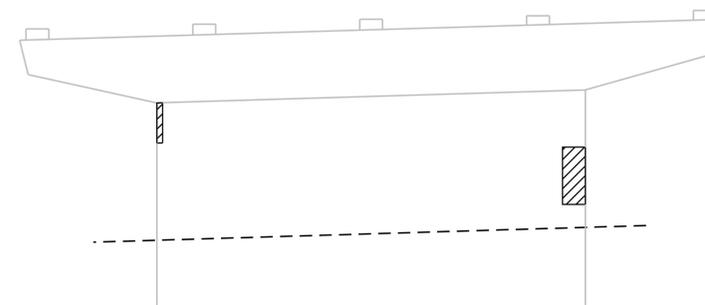
PLAN



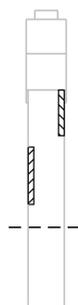
ELEVATION C



ELEVATION B



ELEVATION A

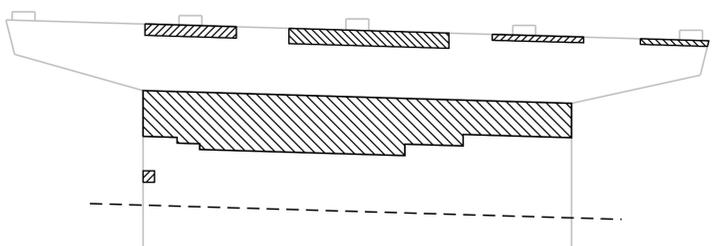


ELEVATION D

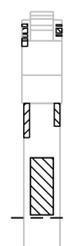
PIER 1



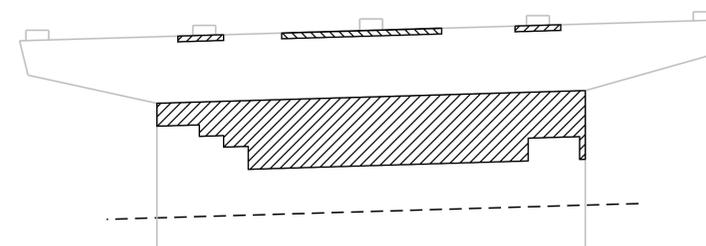
PLAN



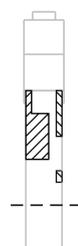
ELEVATION C



ELEVATION B

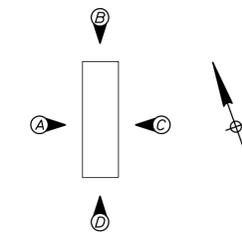


ELEVATION A

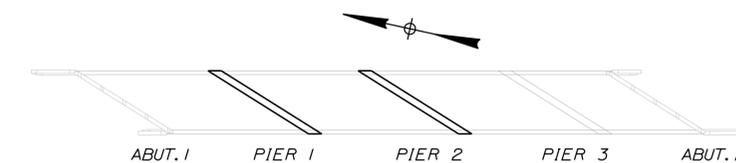


ELEVATION D

PIER 2



PIER ELEVATIONS



LOCATION PLAN

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Pier\_Repairs\_Structures.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	JJL	11/2018	In Charge of	DSM	1/2019

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FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
PIER REPAIRS - 1 OF 2

CONTRACT: 2019.11

SHEET NUMBER: RT26-31

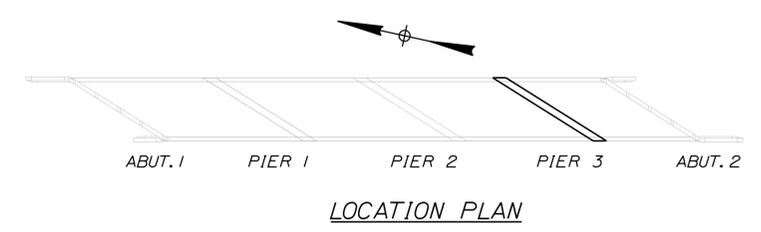
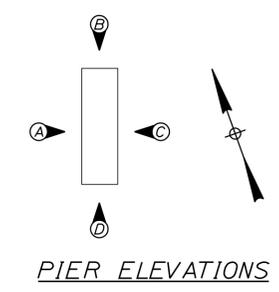
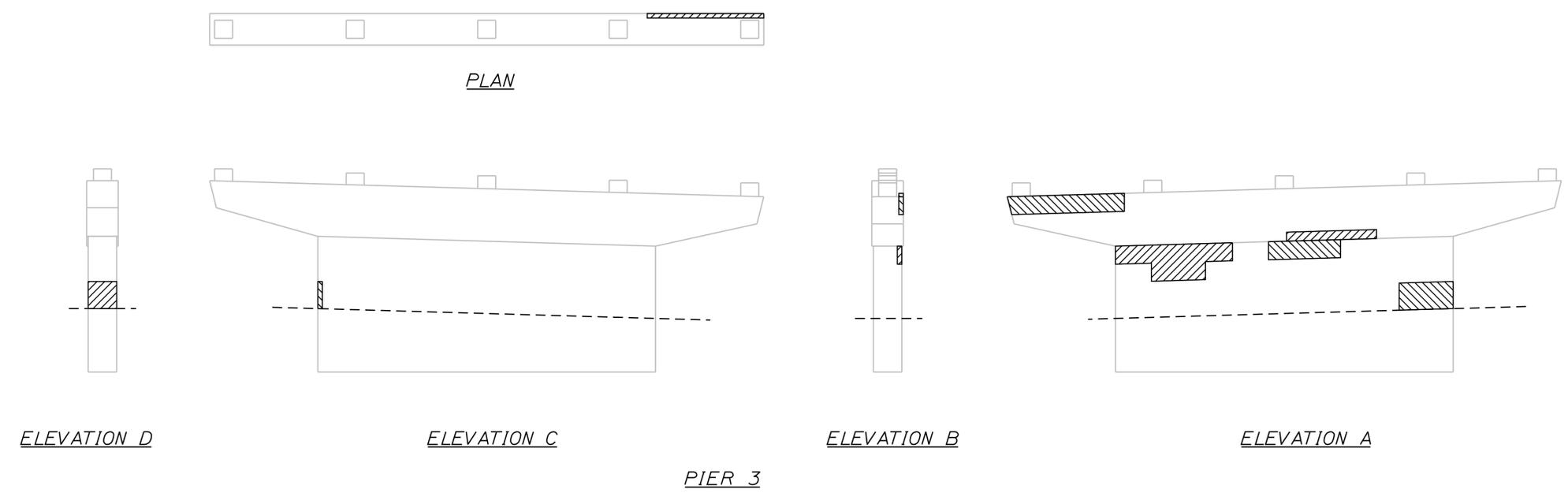
59 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Pier\_Repairs\_Structures.dgn

**NOTE:**  
 1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"  
 2. FOR QUANTITY, SEE "ROUTE 26 (MILE 64.3) PIER REPAIRS - 1 OF 2"

**LEGEND:**  
 [Hatched Box] LIMIT OF CONCRETE SURFACE REPAIRS  
 [Wavy Line] LIMIT OF EPOXY INJECTED CRACK REPAIRS  
 [Solid Line] EXISTING CONCRETE  
 [Dashed Line] EXISTING AND PROPOSED GROUND



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	Checked	By	Date
Designed	JJL	11/2018	BLT	BLT	11/2018
Drawn	JJL	11/2018	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753



**THE GOLD STAR MEMORIAL HIGHWAY**

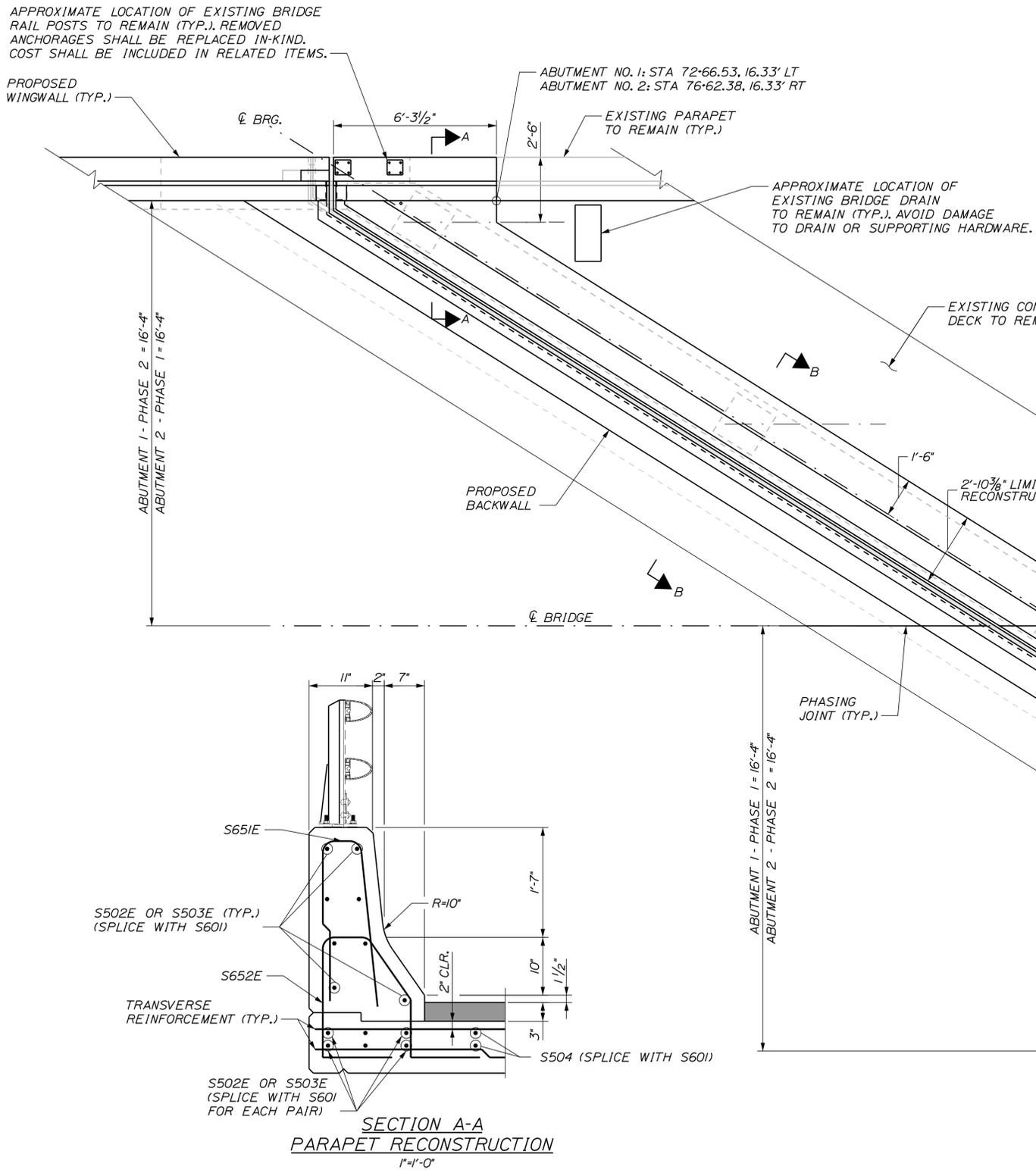
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 PIER REPAIRS - 2 OF 2

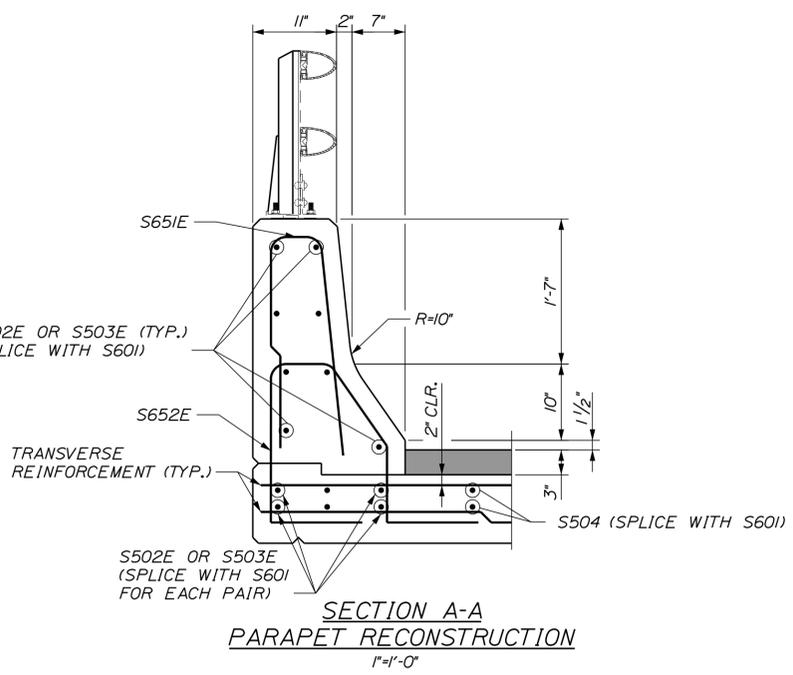
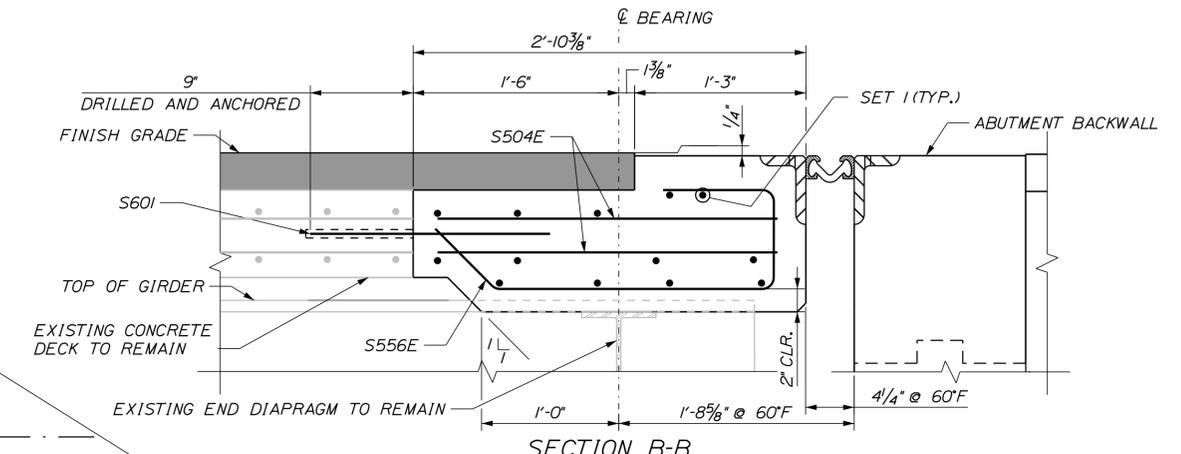
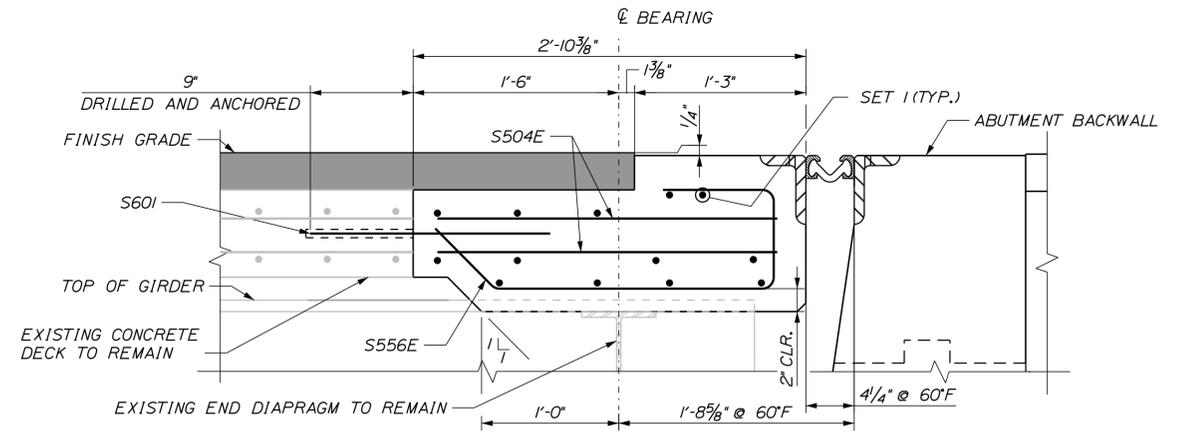
SHEET NUMBER: RT26-32  
 CONTRACT: 2019.11  
 60 OF 105

Date: 2/22/2019

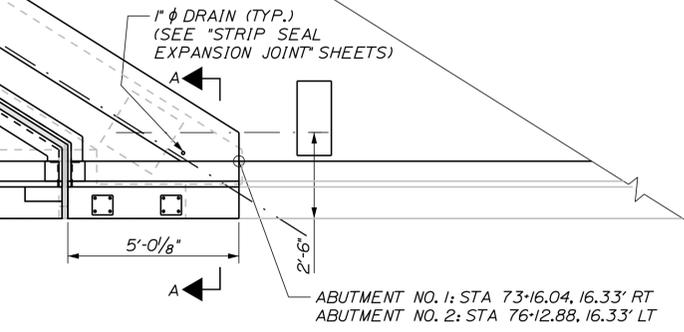
Filename: ...XXX\_MM\_64.3\_Deck\_Details\_1.dgn



SET 1: 2 ~ S506E  
 1 ~ S507E  
 1 ~ S508E



DECK RECONSTRUCTION PLAN  
 3/8" = 1'-0"



Scale: AS NOTED

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	JJL	1/2019	Checked	DSM	1/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

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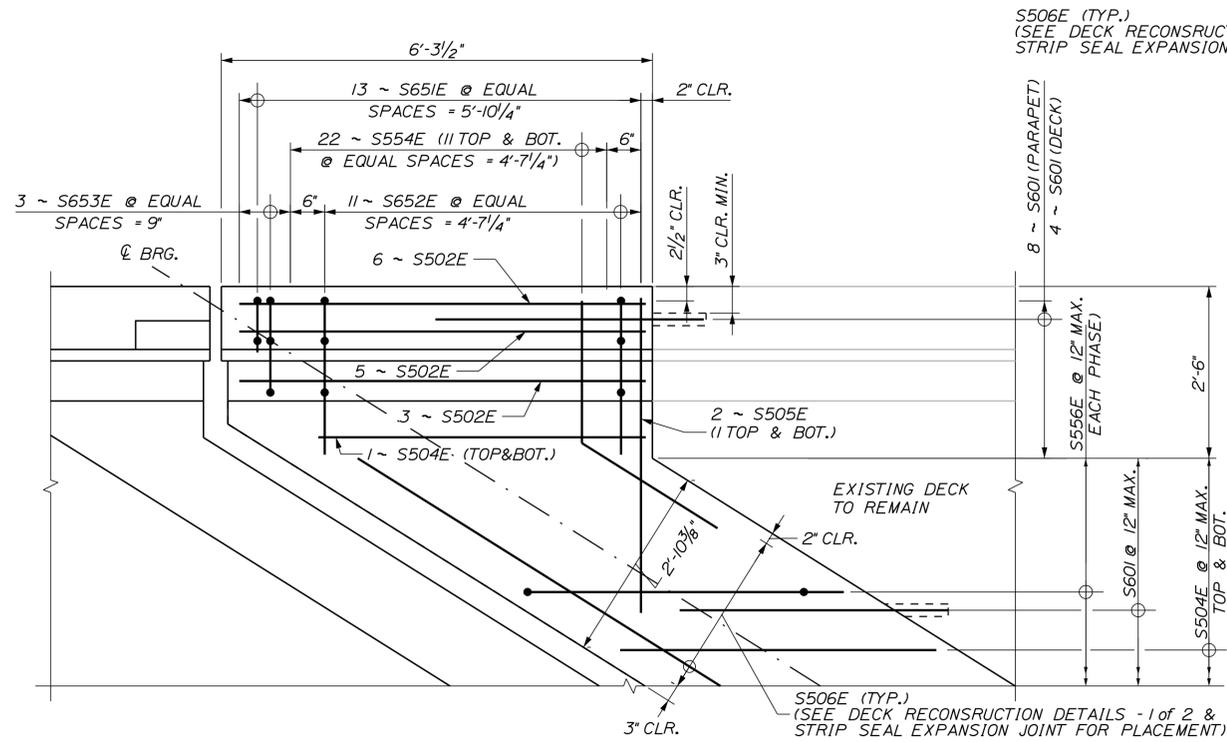
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 DECK RECONSTRUCTION DETAILS - 1 OF 2

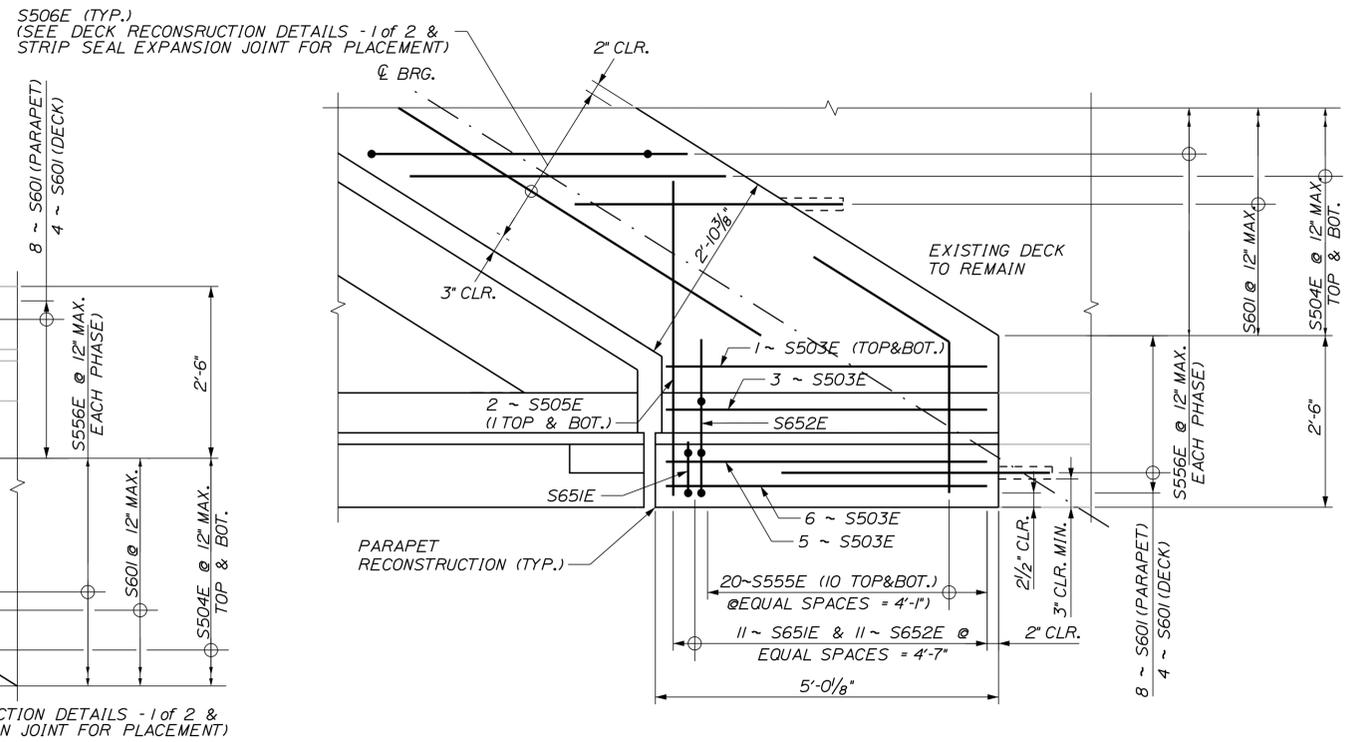
CONTRACT: 2019.11  
 SHEET NUMBER: RT26-33  
 61 OF 105

Date: 2/22/2019



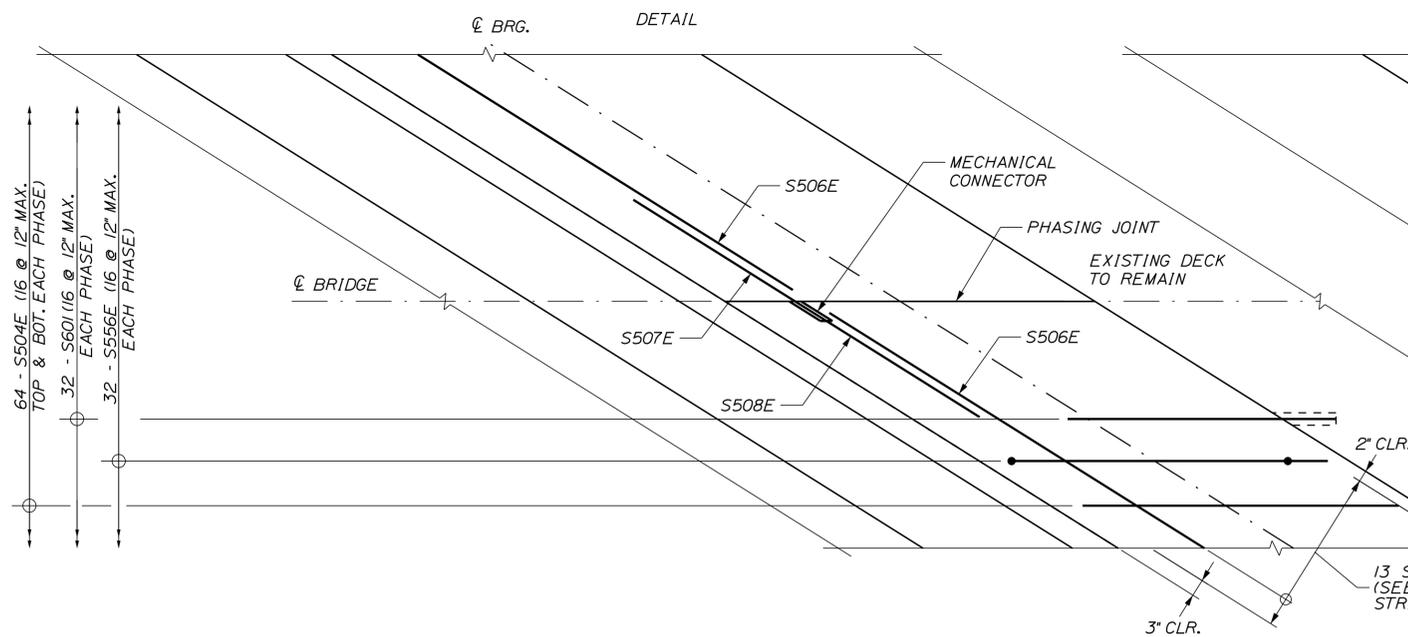
END OF DECK DETAIL (ACUTE CORNER)

3/4" = 1'-0"  
(DETAIL AT ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR BY 180° ROTATION)



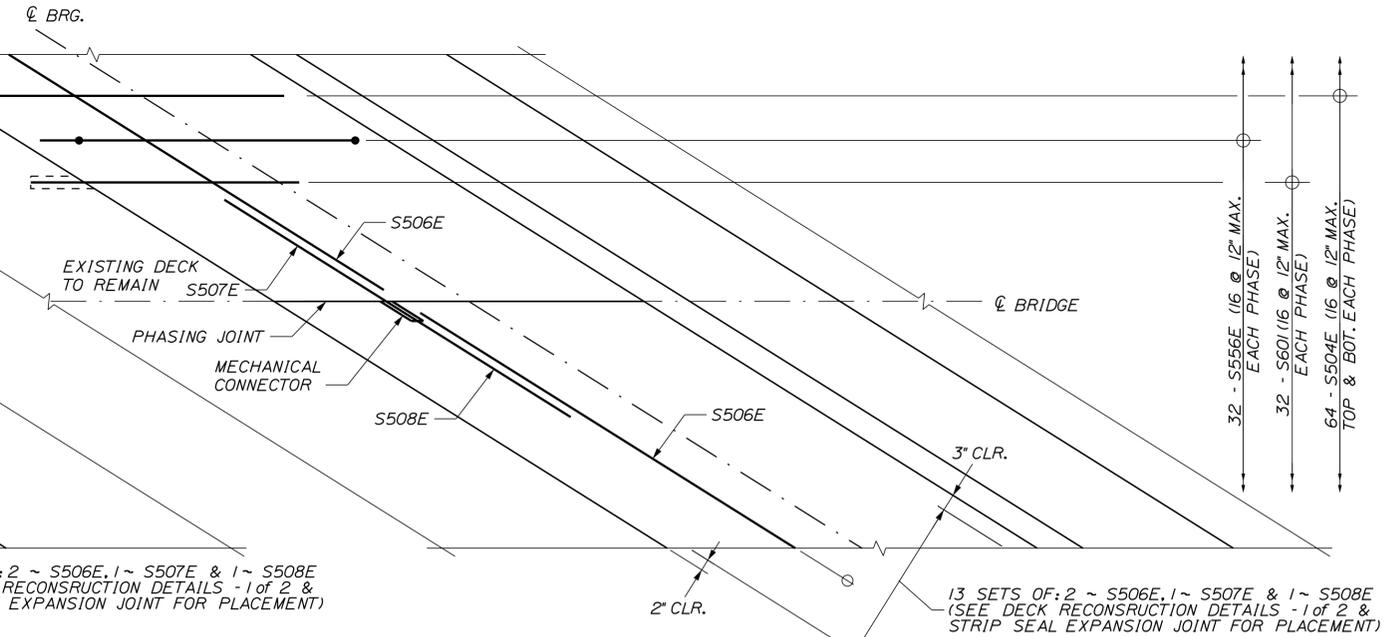
END OF DECK DETAIL (OBTUSE CORNER)

3/4" = 1'-0"  
(DETAIL AT ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR BY 180° ROTATION)



PHASING CONSTRUCTION LINE DETAIL - ABUTMENT 1

3/4" = 1'-0"



PHASING CONSTRUCTION LINE DETAIL - ABUTMENT 2

3/4" = 1'-0"

Filename: ...\\XXX\_MM\_64.3\_Deck\_Details\_2.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>			
CONSULTANT PROJECT MANAGER: Daniel S. Myers			
	By	Date	
Designed	DSM	1/2019	Checked DSM 1/2019
Drawn	JJL	1/2019	In Charge of DSM 1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
DECK RECONSTRUCTION DETAILS - 2 OF 2

CONTRACT: 2019.11

SHEET NUMBER: RT26-34

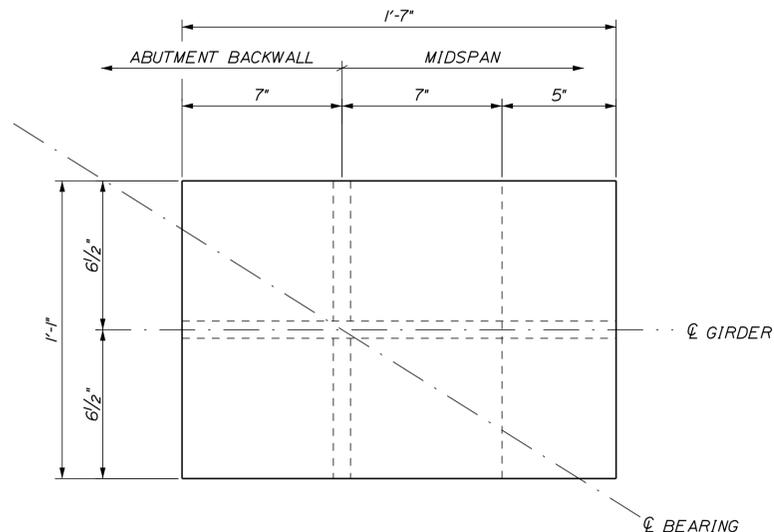
62 OF 105

**QUANTITIES:**

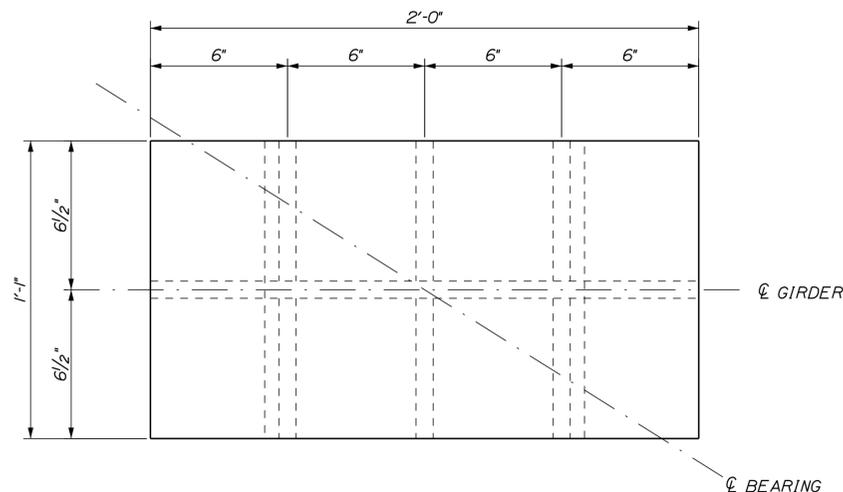
ABUTMENT BOLSTERS	PIER BOLSTERS	TOTAL NUMBER OF BOLSTERS
5	10	15

**NOTES:**

- ALL STEEL PLATES SHALL CONFORM TO AASHTO M270, GRADE 36 OR 50.
- BEARING BOLSTERS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO A123.

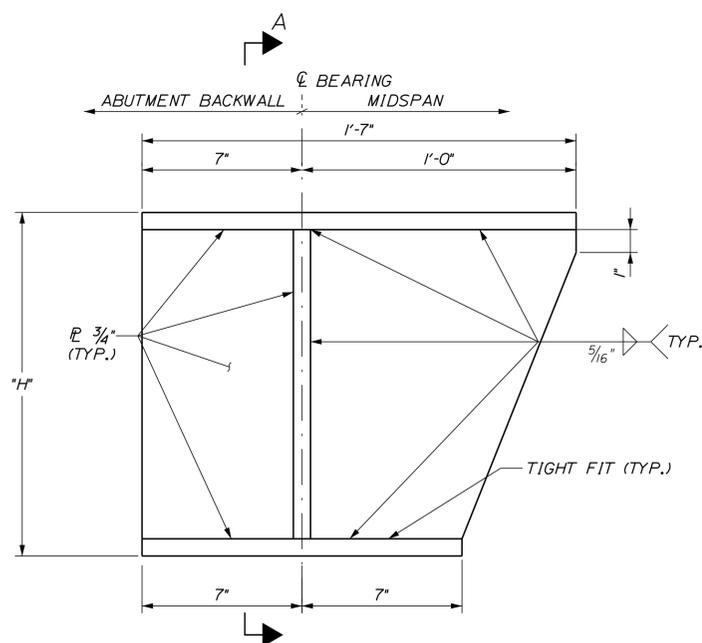


**ABUTMENT BOLSTER PLAN**  
3" = 1'-0"

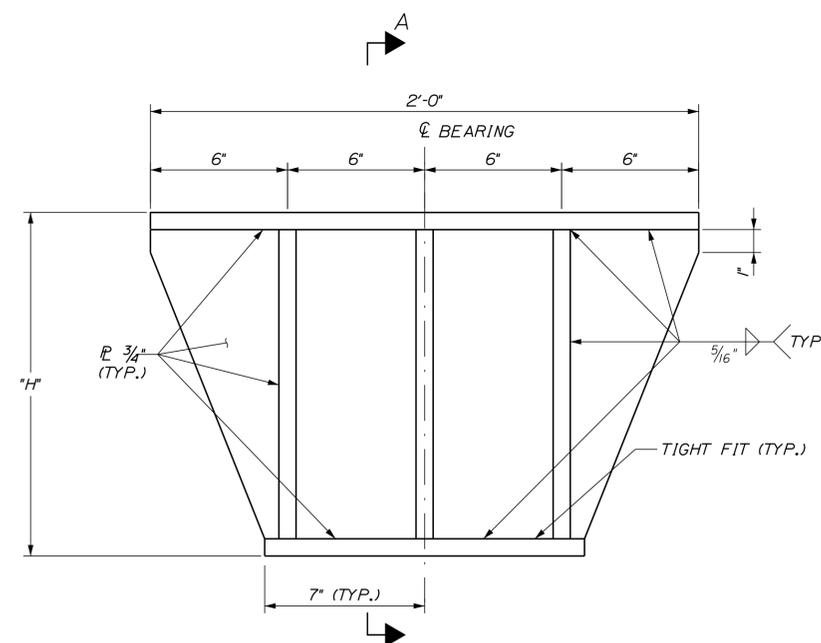


**PIER BOLSTER PLAN**  
3" = 1'-0"

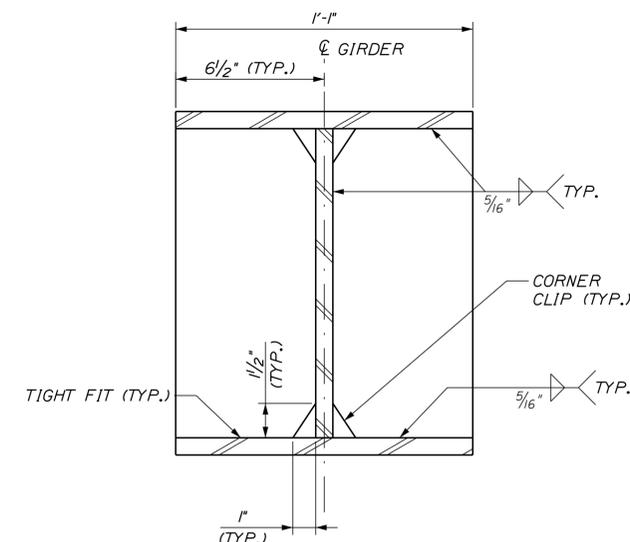
BOLSTER AND SPACER PLATE TABLE		
SUBSTRUCTURE LOCATION	GIRDER NUMBER	BOLSTER - SPACER PLATE HEIGHT ("H") - (INCHES)
ABUTMENT 1 SPACER PLATE	G1	1.3125
	G2	1.6875
	G3	2.0625
	G4	2.4375
	G5	2.8125
PIER 1 SPACER PLATE	G1	3.7500
	G2	4.1250
	G3	4.5000
	G4	4.8750
	G5	5.2500
PIER 2 BOLSTER	G1	6.7500
	G2	7.1250
	G3	7.5000
	G4	7.8750
	G5	8.2500
PIER 3 BOLSTER	G1	9.7500
	G2	10.1250
	G3	10.5000
	G4	10.8750
	G5	11.2500
ABUTMENT 2 BOLSTER	G1	12.1250
	G2	12.5000
	G3	12.9375
	G4	13.3125
	G5	13.6875



**ABUTMENT BOLSTER ELEVATION**  
3" = 1'-0"



**PIER BOLSTER ELEVATION**  
3" = 1'-0"



**SECTION A-A**  
3" = 1'-0"

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Bolster Details.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	JJL	10/2018	In Charge of	DSM	1/2019

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FAX: (207) 781-4753

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

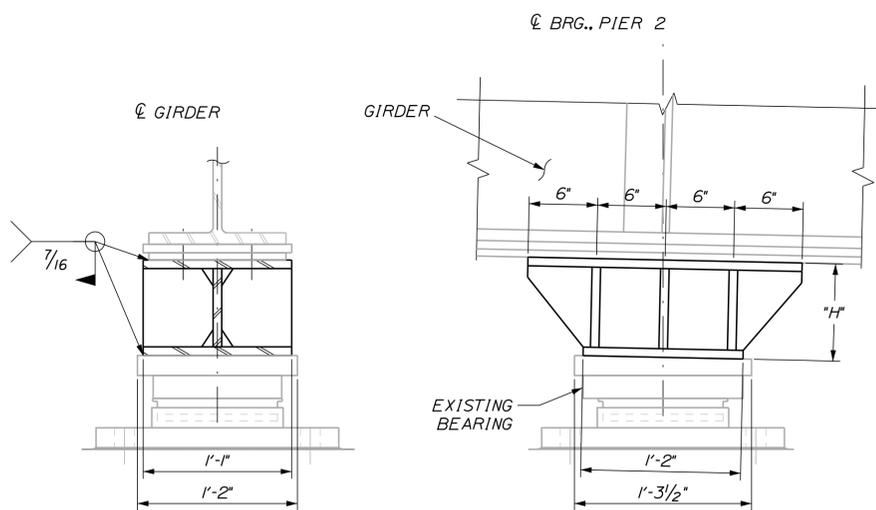
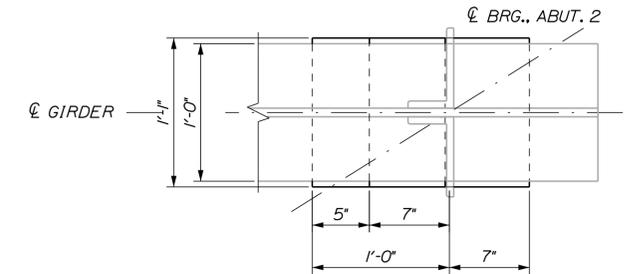
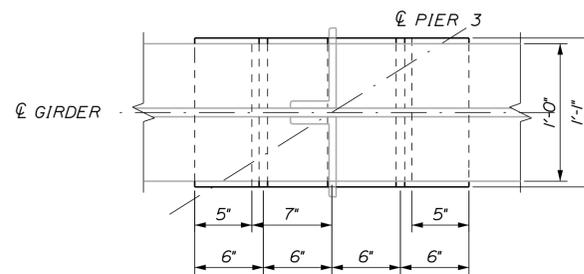
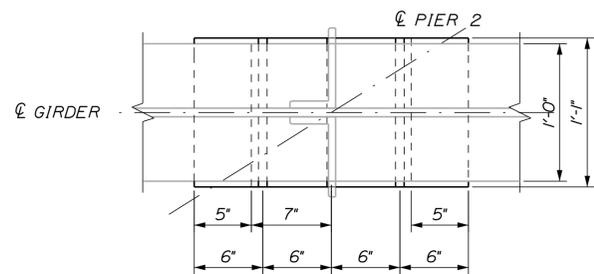
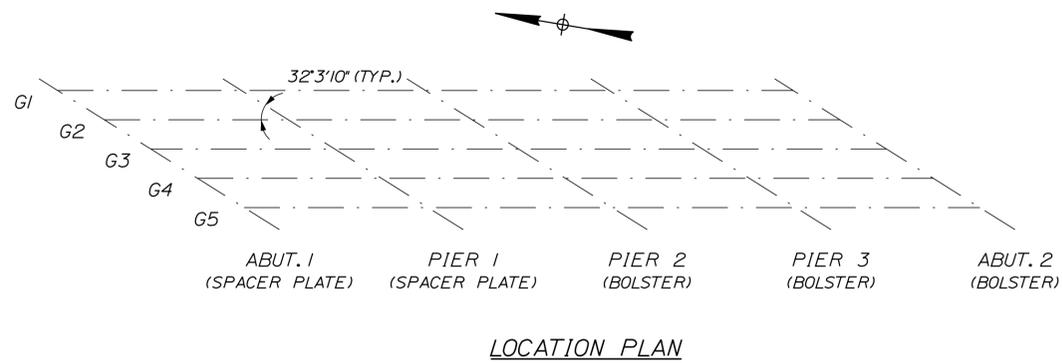
NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
BOLSTER DETAILS

SHEET NUMBER: RT26-35  
CONTRACT: 2019.11  
63 OF 105

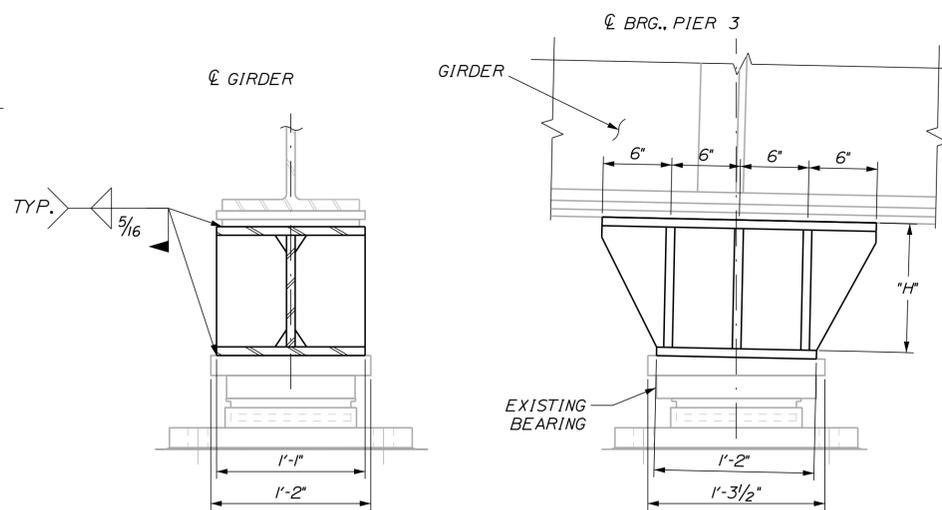
Date: 2/22/2019

**NOTES:**

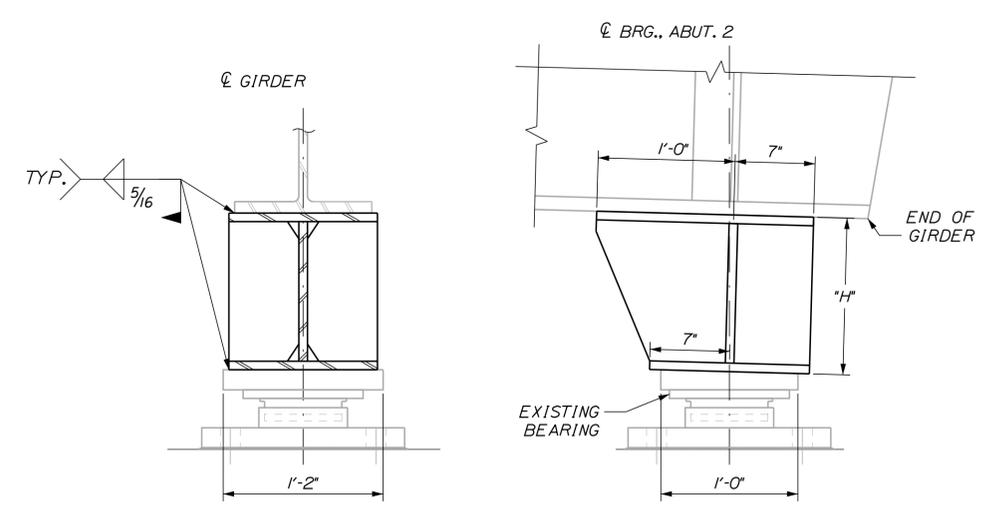
1. BOLSTERS IDENTIFIED IN THE TABLES SHALL BE INSTALLED BY THE CONTRACTOR AT THE LOCATIONS SHOWN. INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 523.524, BEARING BOLSTER AND SPACER PLATES, FURNISHED AND INSTALLED.
2. ALL BOLSTERS WILL BE FIELD WELDED TO THE COVER PLATES AND/OR GIRDERS.
3. ALL EXISTING POT BEARINGS & SOLE PLATES WILL BE REUSED AND ALL WILL BE WELDED TO THE BOTTOM OF THE NEW BOLSTERS.
4. ALL AREAS OF GALVANIZING AND/OR PAINTING DAMAGED IN THE FIELD BY WELDING, GRINDING, OR INCIDENTAL WORK SHALL BE FIELD REPAIRED IN ACCORDANCE WITH ASTM A780 OR SECTION 506, AS APPLICABLE.
5. EXISTING BOLT HOLES OVER BOLSTERS THAT ARE NOT USED SHALL BE FILLED WITH A MATERIAL APPROVED BY THE RESIDENT.
6. EXISTING POT BEARINGS ARE SENSITIVE TO DIRT AND SHALL BE HANDLED WITH CARE. THE BEARINGS SHALL BE MARKED PRIOR TO REMOVAL FOR ORIENTATION TO BRIDGE, LOCATION AND WITH ITSELF.



**PIER 2**  
PIER 2 GIRDER 1-5 HEIGHT "H" VARIABLE



**PIER 3**  
PIER 3 GIRDER 1-5 HEIGHT "H" VARIABLE



**ABUTMENT 2**  
ABUTMENT 2 GIRDER 1-5 HEIGHT "H" VARIABLE

Filename: ...XXX\_MM\_64.3\_Bolster\_Installation.dgn

Scale:			
1/2" = 1'-0"			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	JJL	10/2018	Checked	CPT	12/2018
Drawn	JJL	10/2018	In Charge of	DSM	1/2019

T.Y. Lin International  
12 Northbrook Drive  
Building A, Suite One  
Falmouth, Maine 04105  
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FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
BOLSTER INSTALLATION DETAILS

CONTRACT: 2019.11

SHEET NUMBER: RT26-36

64 OF 105

Date: 2/22/2019

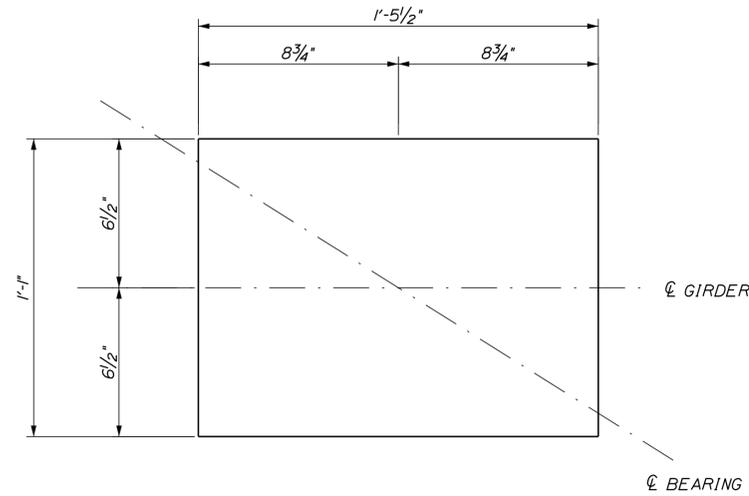
Filename: ...XXX\_MM\_64.3\_Spacer Plate Details.dgn

**QUANTITIES:**

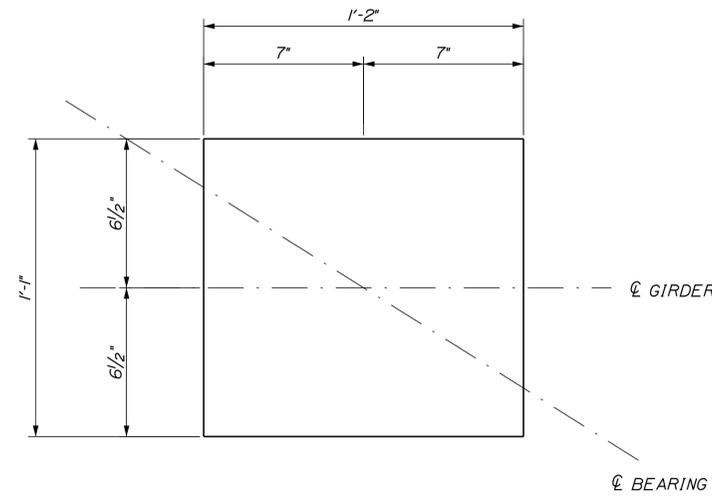
ABUTMENT SPACER PLATES	PIER SPACER PLATES	TOTAL NUMBER OF SPACER PLATES
5	5	10

**NOTES:**

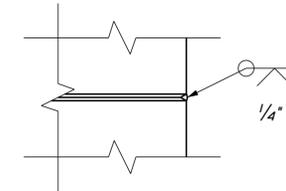
- ALL STEEL PLATES SHALL CONFORM TO AASHTO M270, GRADE 36 OR 50.
- BEARING SPACER PLATES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO A123.
- SEE "BOLSTER AND SPACER PLATE TABLE" ON "BOLSTER DETAILS" SHEET FOR LOCATION & HEIGHT "H".



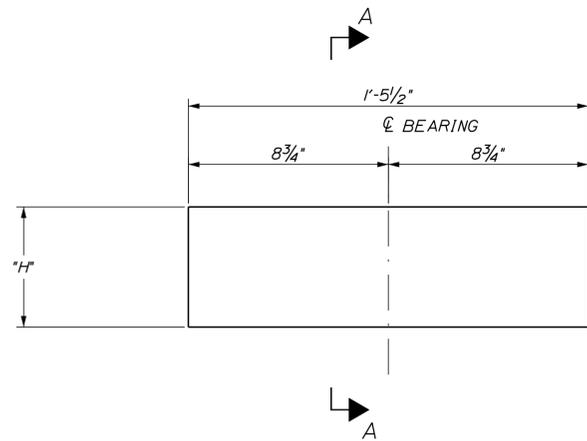
**PIER SPACER PLATE PLAN**  
3" = 1'-0"



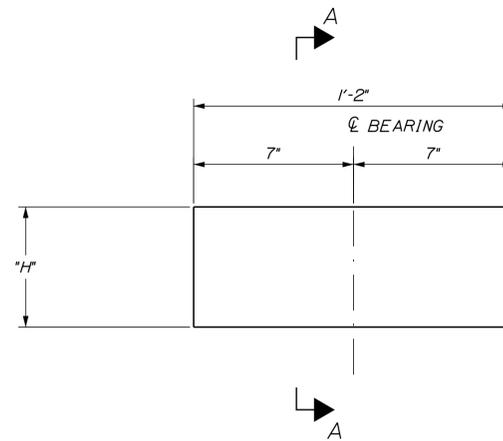
**ABUTMENT SPACER PLATE PLAN**  
3" = 1'-0"



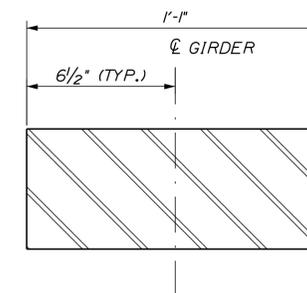
**OPTIONAL PLATE BUILD-UP DETAIL**  
3" = 1'-0"  
NOTE: MINIMUM THICKNESS OF 1" BETWEEN PLATE WELDS



**PIER SPACER PLATE ELEVATION**  
3" = 1'-0"



**ABUTMENT SPACER PLATE ELEVATION**  
3" = 1'-0"



**SECTION A-A**  
3" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	JJL	10/2018	Checked	CPT	12/2018
Drawn	JJL	10/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
SPACER PLATE DETAILS

CONTRACT: 2019.11

SHEET NUMBER: RT26-37

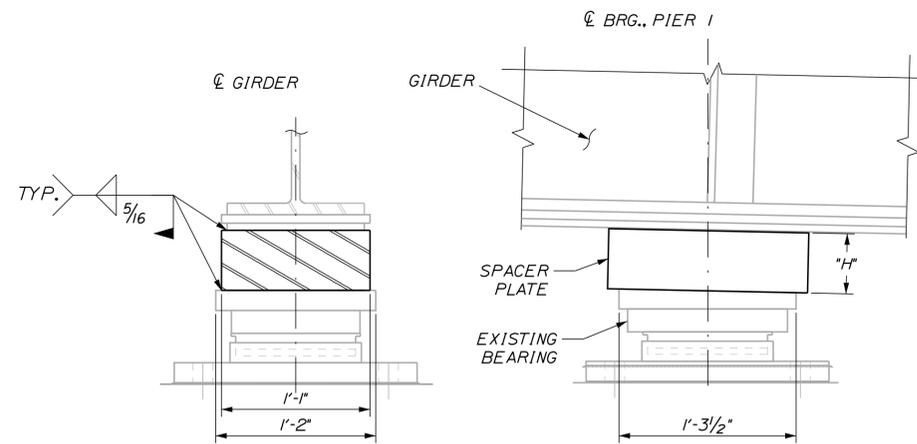
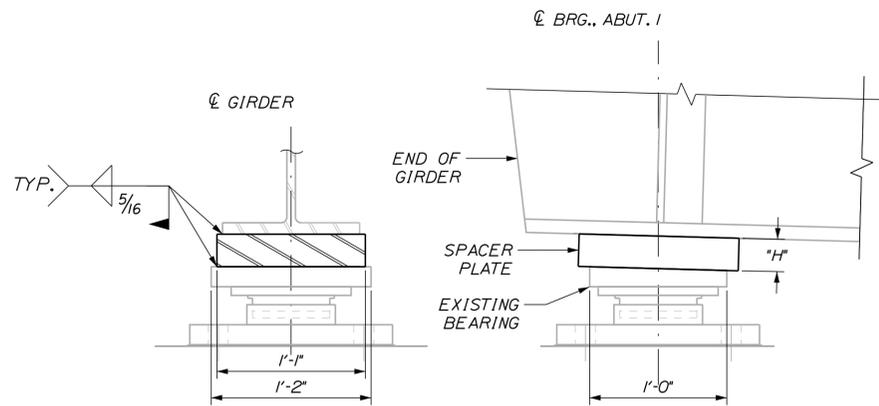
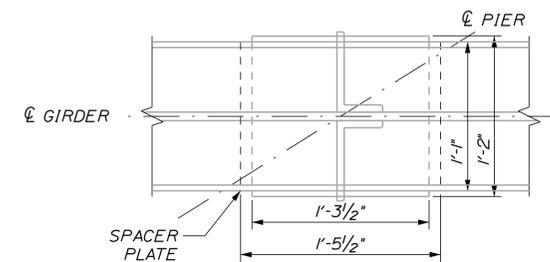
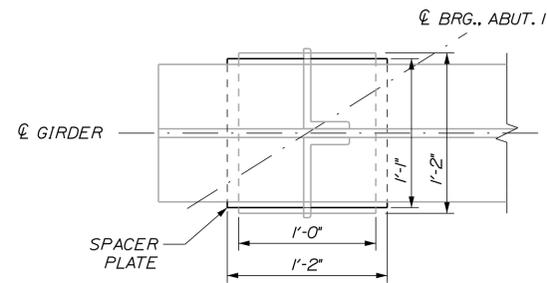
65 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Spacer Plate\_Installation.dgn

**NOTES:**

1. SPACER PLATES IDENTIFIED IN THE TABLES SHALL BE INSTALLED BY THE CONTRACTOR AT THE LOCATIONS SHOWN. INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 523.524, BEARING BOLSTERS AND SPACER PLATES, FURNISHED AND INSTALLED.
2. ALL SPACER PLATES SHALL BE FIELD WELDED TO THE COVER PLATES AND/OR GIRDERS.
3. ALL EXISTING POT BEARINGS & SOLE PLATES WILL BE REUSED AND ALL SHALL BE WELDED TO THE BOTTOM OF THE NEW SPACER PLATES.
4. ALL AREAS OF GALVANIZING AND/OR PAINTING DAMAGED IN THE FIELD BY WELDING, GRINDING, OR INCIDENTAL WORK SHALL BE FIELD REPAIRED IN ACCORDANCE WITH ASTM A780 OR SECTION 506, AS APPLICABLE.
5. EXISTING BOLT HOLES OVER SPACER PLATES THAT ARE NOT USED SHALL BE FILLED WITH A MAERIAL APPROVED BY THE RESIDENT.



**ABUTMENT 1**  
ABUTMENT 1 GIRDER 5 SHOWN, OTHERS SIMILAR

**PIER 1**  
PIER 1 GIRDER 5 SHOWN, OTHERS SIMILAR

Scale: 1/2" = 1'-0"			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	JJL	10/2018	Checked	CPT	12/2018
Drawn	JJL	10/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

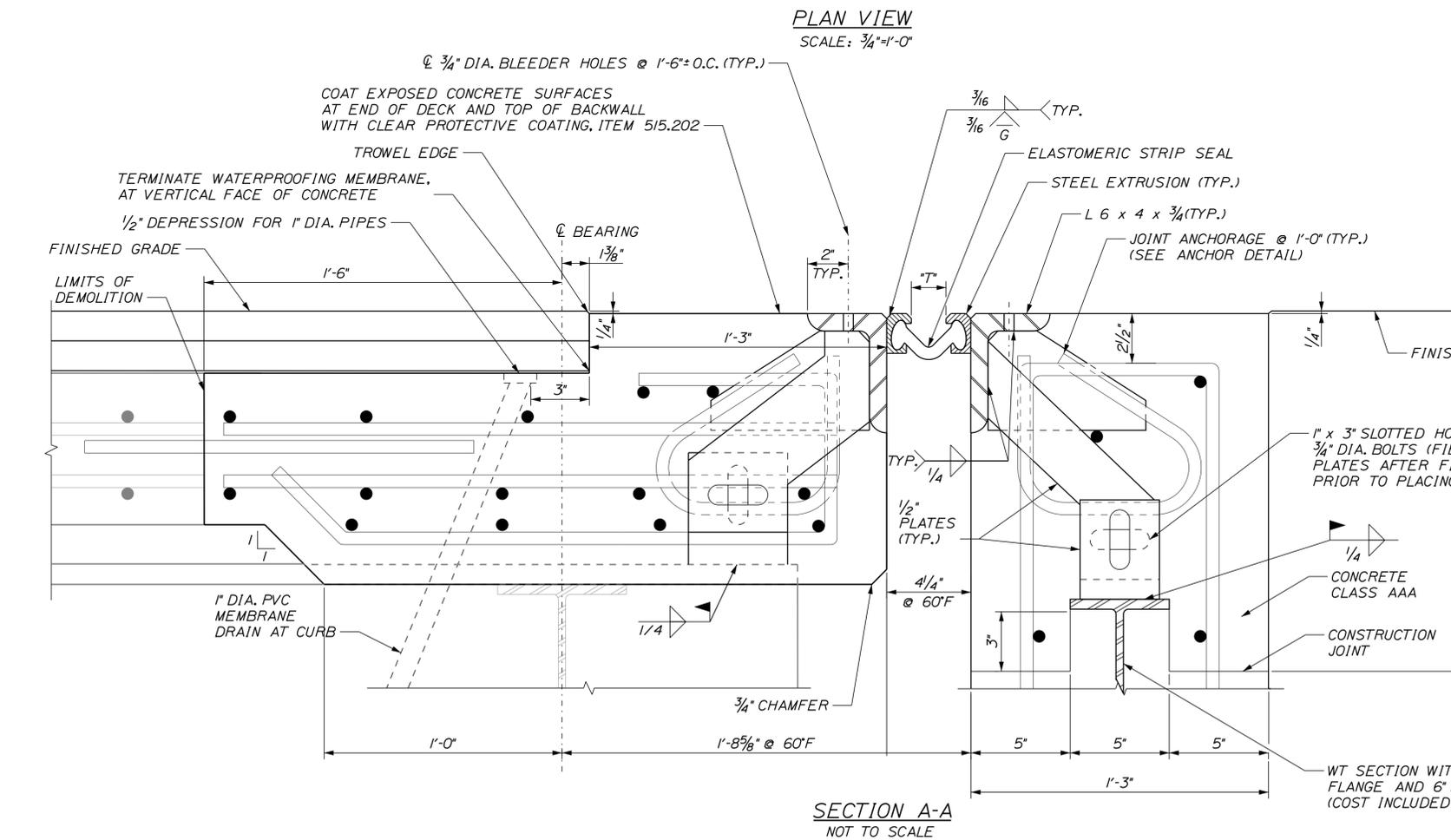
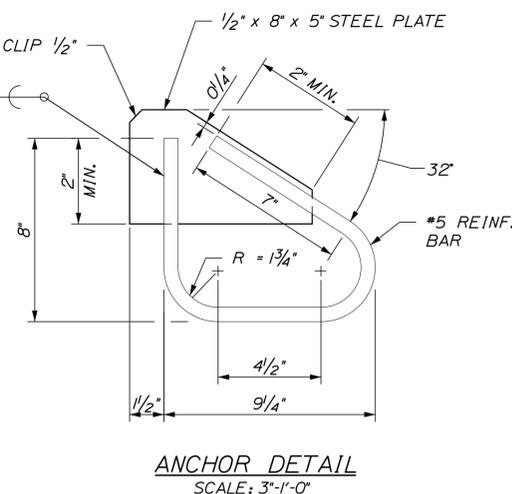
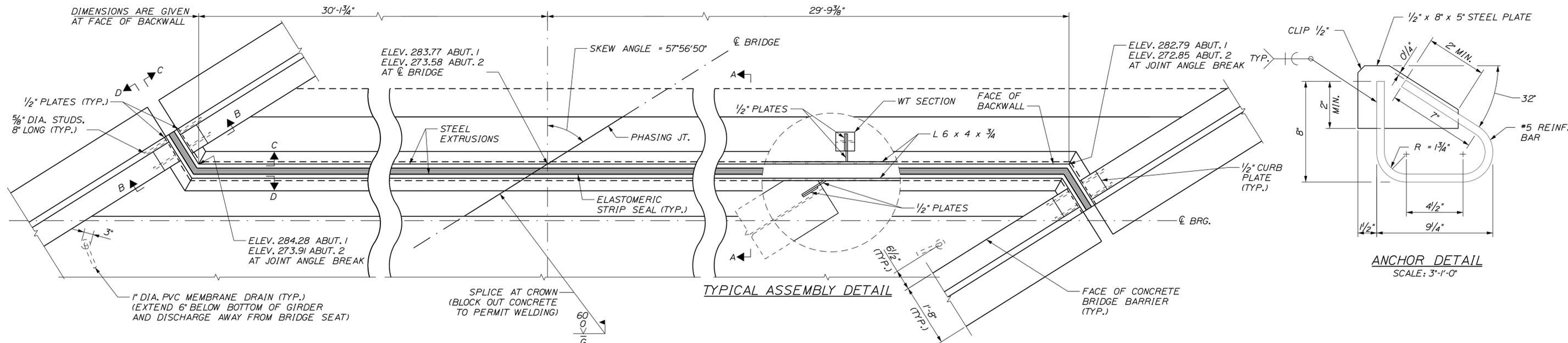
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
ROUTE 26 (MILE 64.3)  
SPACER PLATE INSTALLATION DETAILS

SHEET NUMBER: RT26-38  
CONTRACT: 2019.11  
66 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Strip\_Seal\_1.dgn



TEMPERATURE	"T"
15°	2 1/2"
30°	2 3/8"
45°	2 3/16"
60°	2"
75°	1 13/16"
90°	1 5/8"

\*"T" DIMENSIONS ARE PERPENDICULAR TO FACE OF BACKWALL

- EXPANSION JOINT DETAILS:**
- EXPANSION JOINT STEEL SHALL BE GALVANIZED AASHTO M270 GRADE 50 (ASTM A709 GRADE 50), EXCEPT AS OTHERWISE ALLOWED. THE ENTIRE ASSEMBLY, INCLUDING ELASTOMERIC SEAL, SHALL BE PAID FOR AS ITEM 520.21, EXPANSION DEVICE - GLAND SEAL.
  - SPLICES FOR EXPANSION JOINT STEEL SHALL DEVELOP FULL STRENGTH.
  - THE EXPANSION JOINT SHALL BE PRESET TO THE ANTICIPATED TEMPERATURE AT THE TIME OF INSTALLATION. FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE RESIDENT (SEE TEMPERATURE ADJUSTMENT TABLE).
  - ELASTOMERIC STRIP SEAL SHALL BE FURNISHED IN ONE CONTINUOUS LENGTH. HORIZONTAL ANGLE BREAKS SHALL BE PROVIDED BY MANUFACTURER. NO OTHER SPLICES WILL BE ALLOWED.
  - JOINT SUPPORT PLATES SHALL BE SHOP WELDED TO THE EXPANSION JOINT STEEL AND SHALL BE VERTICAL AFTER THE JOINT ASSEMBLY HAS BEEN ADJUSTED FOR ROADWAY CROSS-SLOPE AND GRADE.
  - IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL, REMOVE SHIPPING DEVICES AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO EXPOSED GALVANIZED SURFACES WITH ZINC-RICH PRIMER.
  - PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
  - THE ELASTOMERIC STRIP SEAL SHALL HAVE A MINIMUM RANGE OF MOVEMENT OF 3 INCHES. STRIP SEAL SHALL BE D.S. BROWN A2R-400 OR WATSON BOWMAN ACME SE-400.
  - NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED.
  - JOINT SUPPORT PLATES SHALL BE PLACED AT ALL GRIDERS. 5 GRIDERS ARE SPACED 7'-9" NORMAL TO EACH OTHER AND ARE CENTERED ON THE CENTER OF THE BRIDGE.
  - SUGGESTED SEQUENCE OF PHASE 1 (SOUTH SIDE) JOINT CONSTRUCTION (TO ENSURE EDGE BEAMS ALIGN IN FINAL CONDITION):
    - CONSTRUCT BACKWALL UP TO BLOCK OUT ELEVATION, AND DECK INCLUDING JOINT ANGLE. SET ELEVATION OF JOINT ANGLE ON DECK TO 1'-0" BELOW FINAL GRADE TO ACCOUNT FOR JACKING.
    - RAISE BRIDGE.
    - PLACE BACKWALL SIDE OF JOINT TO ALIGN WITH DECK SIDE OF JOINT AND POUR BACKWALL BLOCKOUT CONCRETE.
    - AFTER PHASE 2 OF JOINT IS CONSTRUCTED, INSTALL STRIP SEAL IN ONE CONTINUOUS PIECE.
  - BLOCKOUT CONCRETE SHALL BE A MINIMUM OF 3000 PSI AND HAVE CURED FOR 5 DAYS BEFORE BEING OPENED TO TRAFFIC.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed	CPT 11/2018	Checked	DSM 1/2019
Drawn	JJL 1/2019	In Charge of	DSM 1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

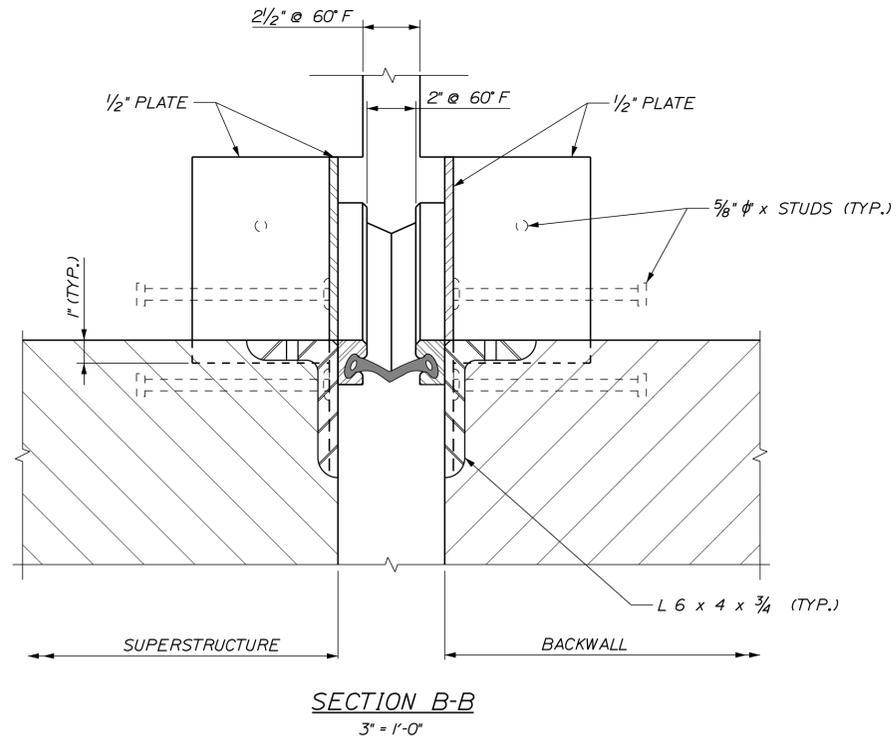
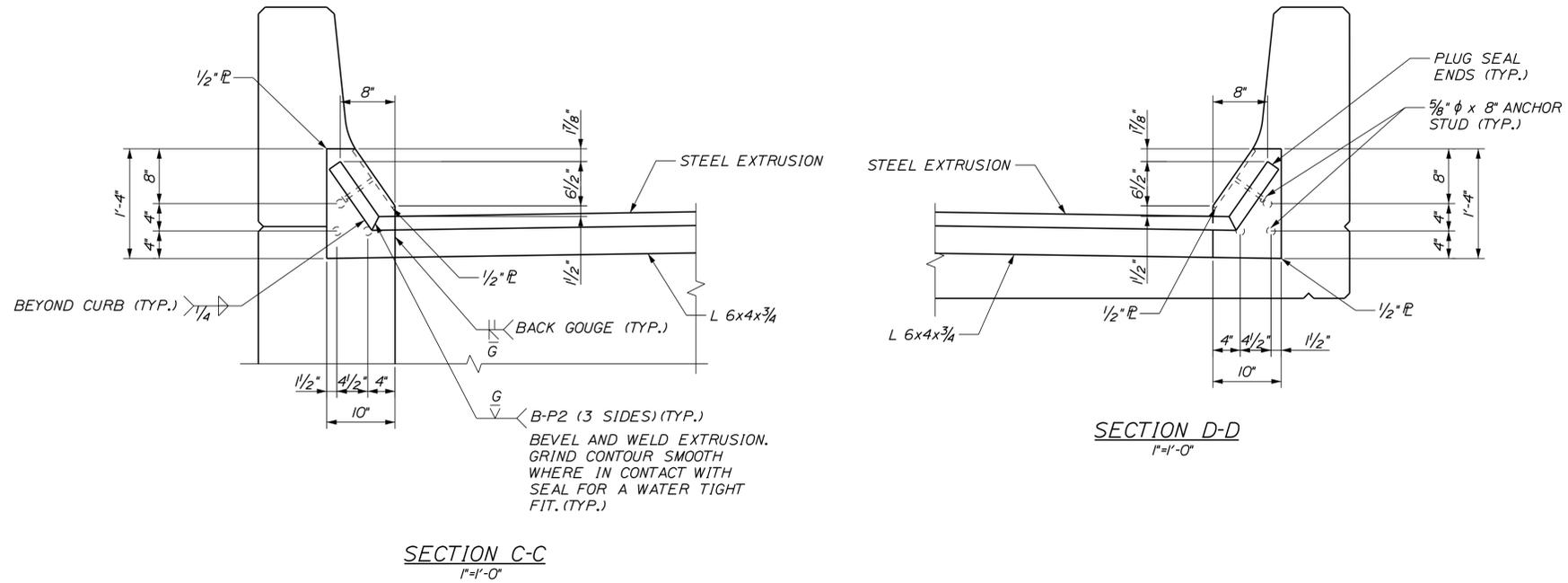
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 STRIP SEAL EXPANSION JOINT - 1 OF 2

SHEET NUMBER: RT26-39  
 CONTRACT: 2019.11  
 67 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_64.3\_Strip\_Seal\_2.dgn



Scale: AS NOTED

No.	Revision	By	Date

Designed by:  
**TYLIN INTERNATIONAL**  
 CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	CPT	11/2018	Checked	DSM	11/2018
Drawn	SAM	11/2018	In Charge of	DSM	1/2019

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 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753



MAINE  
TURNPIKE

**THE GOLD STAR  
MEMORIAL HIGHWAY**

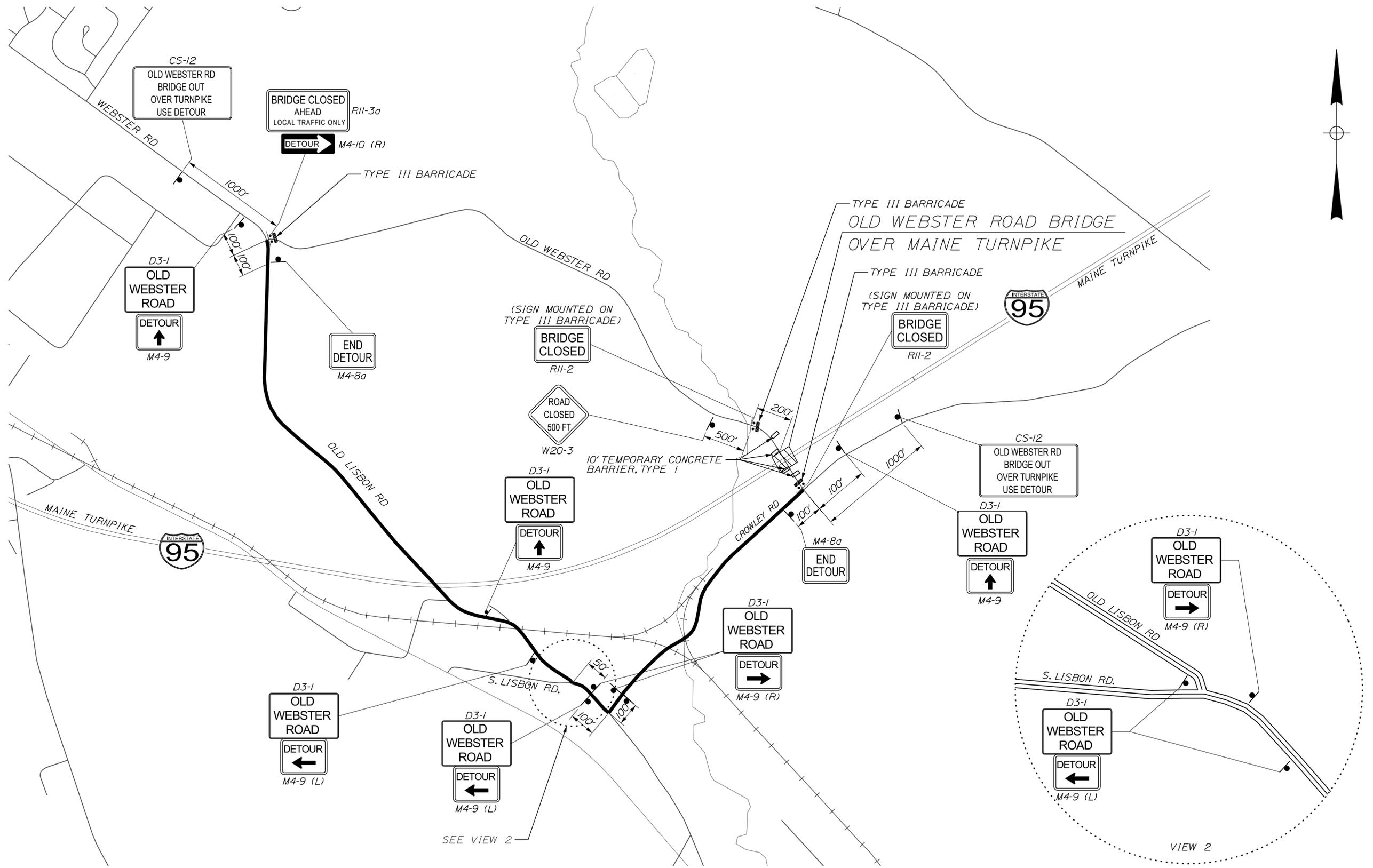
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 ROUTE 26 (MILE 64.3)  
 STRIP SEAL EXPANSION JOINT - 2 OF 2  
 SHEET NUMBER: RT26-40  
 CONTRACT: 2019.11



Date: 2/22/2019

Filename: ...XXX\_82.7\_M01\_Detour Plan.dgn



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date
Designed	GC	12/2018	Checked	KSD 12/2018
Drawn	GC	12/2018	In Charge of	DSM 1/2019

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 Falmouth, Maine 04105  
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 FAX: (207) 781-4753

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

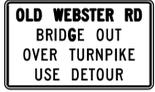
MTA PROJECT MANAGER: Ralph C. Norwood, IV

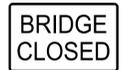
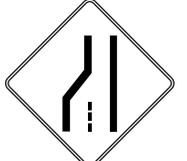
NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 WEBSTER ROAD (MILE 82.7)  
 DETOUR PLAN

SHEET NUMBER: WR-01  
 70 OF 105

CONTRACT: 2019.11

Date: 2/22/2019

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	48"	48"		7C 7C	6"		2	ORANGE	BLACK		16.00 (32)	
CS-12	60"	36"		5C 5C 5C 5C	3.5" 3" 3" 3.5"		2	ORANGE	BLACK		15.00 (30)	
D3-1 (MOD)	36"	24"		5D 5D 5D	2.5" 2" 2" 2.5"		7	ORANGE	BLACK		6.00 (42)	
G20-2	36"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		6.00 (24)	
G20-5aP	48"	24"					4	ORANGE	BLACK		8.00 (32)	
M4-8A	24"	18"					2	ORANGE	BLACK		3.00 (6)	
M4-9	30"	24"					3	ORANGE	BLACK		5.00 (15)	
M4-9L	30"	24"					2	ORANGE	BLACK		5.00 (10)	
M4-9R	30"	24"					2	ORANGE	BLACK		5.00 (10)	
M4-10R	48"	18"					1	ORANGE	BLACK		6.00 (6)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
R2-1	36"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	WHITE	BLACK		12.00 (48)	
R2-6aP	36"	24"					4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
R11-2	48"	30"					2	WHITE	BLACK		10.00 (20)	
R11-3a	60"	30"					1	WHITE	BLACK		12.50 (12.5)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) (64)	

Filename: ...XXX\_MOT\_Sign\_Sum\_02\_82.7.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	TWA	1/2019	Checked	PJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 WEBSTER ROAD (MILE 82.7)  
 M.O.T. SIGN SUMMARY 1 OF 2

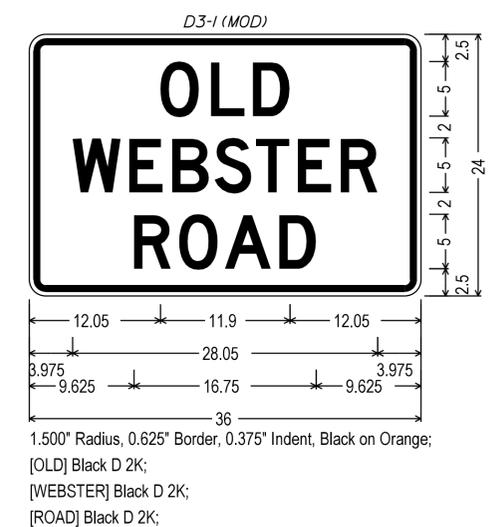
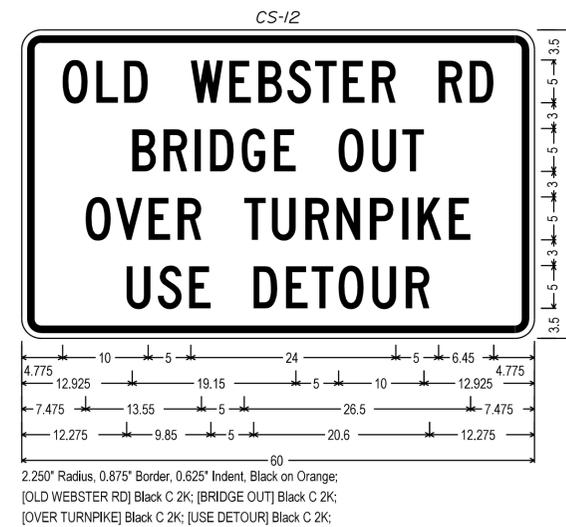
SHEET NUMBER: WR-02  
 CONTRACT: 2019.11  
 71 OF 105

Date: 2/22/2019

Filename: ...XXX\_MOT\_Sum\_02\_82.7.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W8-1	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					4	ORANGE	BLACK		7.50 (30)	
W20-1 (1 MILE) (AHEAD)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) (64)	
W20-3 (500)	36"	36"					1	ORANGE	BLACK		9.00 (9)	
W20-5 (LEFT) (RIGHT)	48"	48"					4 4	ORANGE	BLACK		16.00 (64) (64)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W21-5aR (LEFT) (RIGHT)	48"	48"					2 2	ORANGE	BLACK		16.00 (32) (32)	
W21-5bR (LEFT) (RIGHT)	48"	48"					2 2	ORANGE	BLACK		16.00 (32) (32)	



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	PJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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 FAX: (207) 781-4753



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

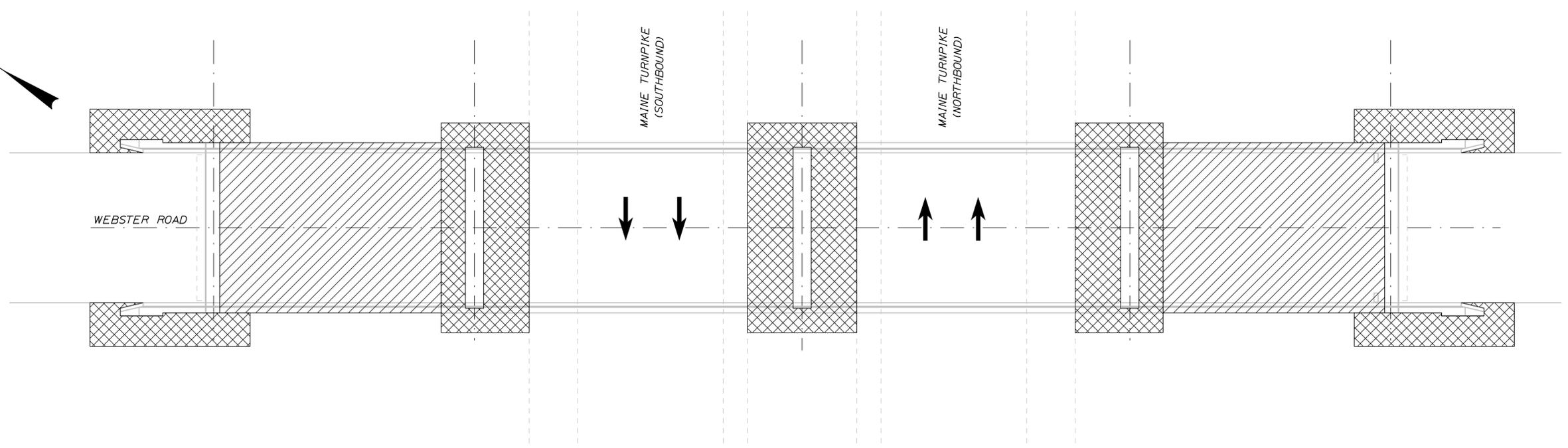
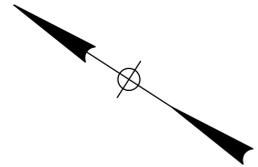
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 WEBSTER ROAD (MILE 82.7)  
 M.O.T. SIGN SUMMARY 2 OF 2

CONTRACT: 2019.11

SHEET NUMBER: WR-03  
 72 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_LODPlan\_82.7.dgn



LIMIT OF DISTURBANCE PLAN - WEBSTER ROAD

**LEGEND:**

-  CONTRACT LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

**AREAS:**

- CONTRACT LIMIT OF DISTURBANCE:  
WEBSTER ROAD = 0.05 ACRES
- CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:  
WEBSTER ROAD = 0.05 ACRES

**NOTES:**

1. EROSION AND SEDIMENT CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
2. THE CONTRACTOR WILL BE ALLOWED TO STORE MATERIAL AND EQUIPMENT ON GRAVEL AND PAVEMENT WITHIN THE CLOSED PORTIONS OF WEBSTER ROAD. THESE AREAS ARE EITHER INCLUDED IN THE LIMITS OF DISTURBANCE OR HAVE BEEN PREVIOUSLY SURFACED AND DO NOT ADD TO THE LIMITS OF DISTURBANCE.
3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Scale:			
No.	Revision	By	Date

Designed by:

**TY-LIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TSK	1/2019	Checked	TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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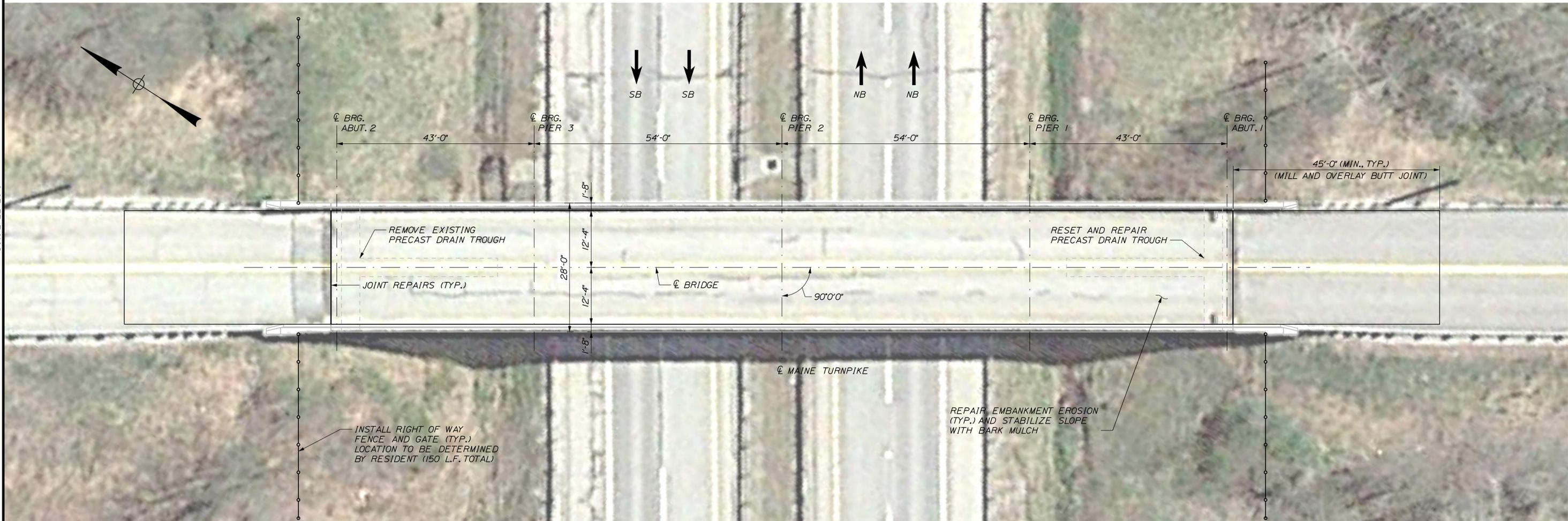
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

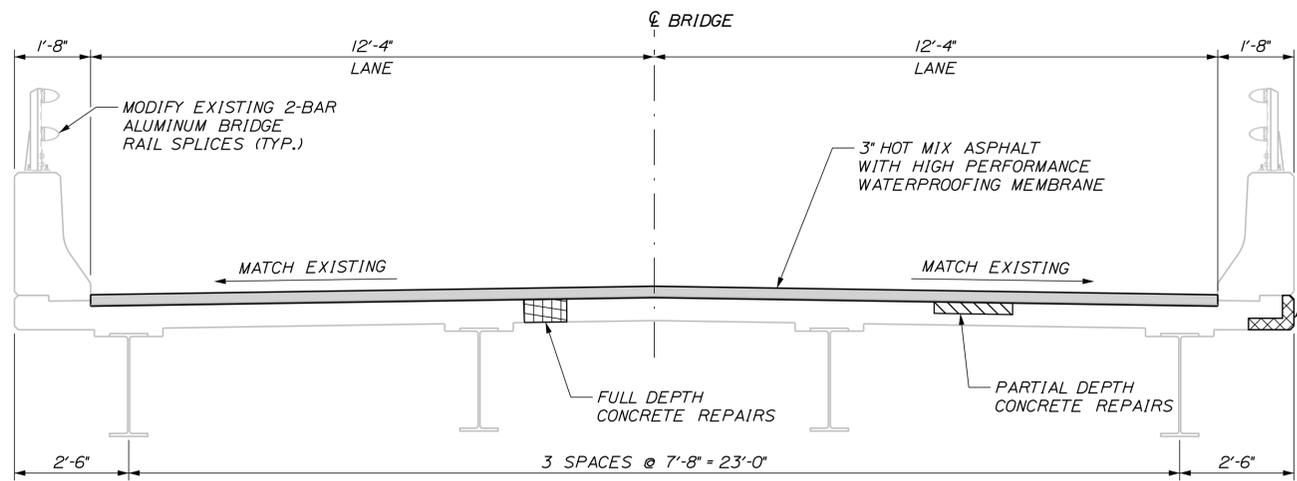
NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 WEBSTER ROAD (MILE 82.7)  
 LIMIT OF DISTURBANCE

SHEET NUMBER: WR-04  
 CONTRACT: 2019.11  
 73 OF 105

Date: 2/22/2019



DECK PLAN  
SCALE: 3/32" = 1'-0"



TRANSVERSE SECTION  
SCALE: 1/2" = 1'-0"

ESTIMATED REPAIR QUANTITIES		
FULL DEPTH CONCRETE DECK REPAIRS (S.F.)	PARTIAL DEPTH CONCRETE DECK REPAIRS (S.F.)	FASCIA AND OVERHANG REPAIRS (S.F.)
5 S.F.	75 S.F.	0 S.F.

LEGEND:

- LIMITS OF FULL DEPTH CONCRETE REPAIR (REPAIR AREAS TO BE FIELD VERIFIED)
- LIMITS OF PARTIAL DEPTH CONCRETE DECK REPAIRS (REPAIR AREAS TO BE FIELD VERIFIED)
- LIMITS OF FASCIA AND OVERHANG REPAIRS (REPAIR AREAS TO BE FIELD VERIFIED)

NOTES:

1. CONTRACTOR SHALL REPAIR AREAS OF CONCRETE DECK DETERIORATION AS IDENTIFIED BY THE RESIDENT. RESIDENT SHALL IDENTIFY AND MARK AREAS FOR DECK REPAIR AFTER THE WEARING SURFACE AND MEMBRANE ARE REMOVED. CONTRACTOR SHALL ALSO REPAIR DETERIORATED AREAS OF FASCIA, FASCIA OVERHANGS, AND PARAPET JOINTS. COORDINATE WORK WITH THE RESIDENT. PAYMENT FOR REPAIR WORK SHALL BE UNDER THE 518 PAY ITEMS.
2. ALL PVC DECK WEEPS WHICH DRAIN ONTO PIERS, ABUTMENTS OR STRUCTURAL STEEL SHALL BE EXTENDED AND DIVERTED AWAY FROM BRIDGE COMPONENTS BELOW DECK, AND SHALL EXTEND 1 FT BELOW BOTTOM FLANGE, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE BY THE VARIOUS LABOR AND EQUIPMENT ITEMS. SEE DETAIL SHEET 'MISCELLANEOUS DETAILS SHEET 1 OF 3 & MISCELLANEOUS DETAILS SHEET 2 OF 3'.
3. FOR WORK REQUIRED AT DRAIN TROUGHS, SEE SHEET 'MISCELLANEOUS DETAILS SHEET 1 OF 3'.
4. A BEAD OF HOT-APPLIED RUBBERIZED ASPHALT SEALER SHALL BE APPLIED ALONG CURB LINES AFTER INSTALLATION OF BASE COURSE. PAYMENT SHALL NOT BE MADE DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.

Filename: ...XXX\_MM\_82.7\_Typical\_Deck\_Plan\_Section.dgn

Scale:			
No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

Designed	By	Date	Checked	By	Date
Drawn	SAM	10/2018	In Charge of	DSM	12/2018
					1/2019

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Building A, Suite One  
Falmouth, Maine 04105  
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FAX: (207) 781-4753

**MAINE TURNPIKE**

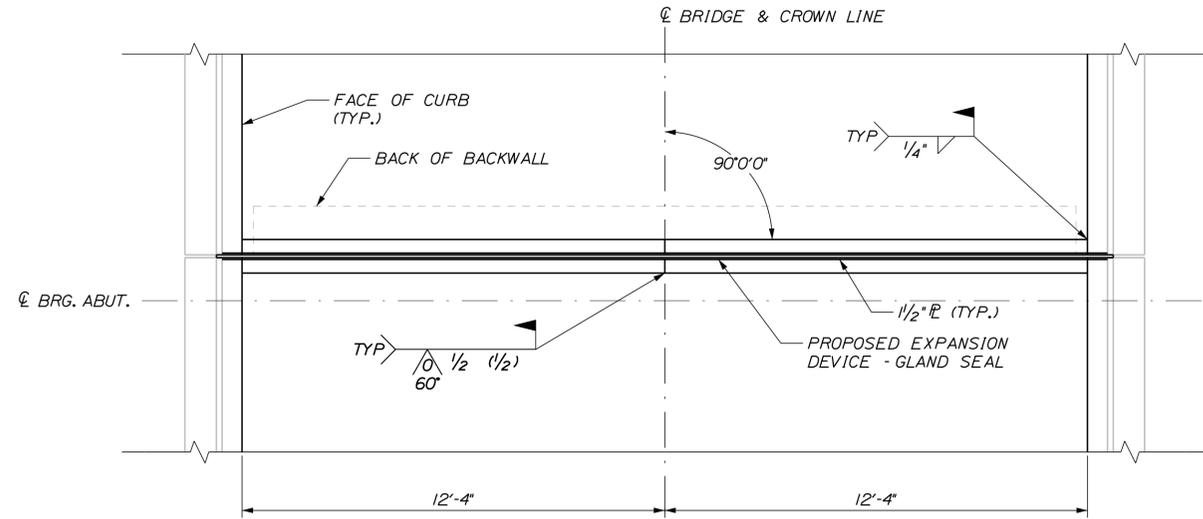
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

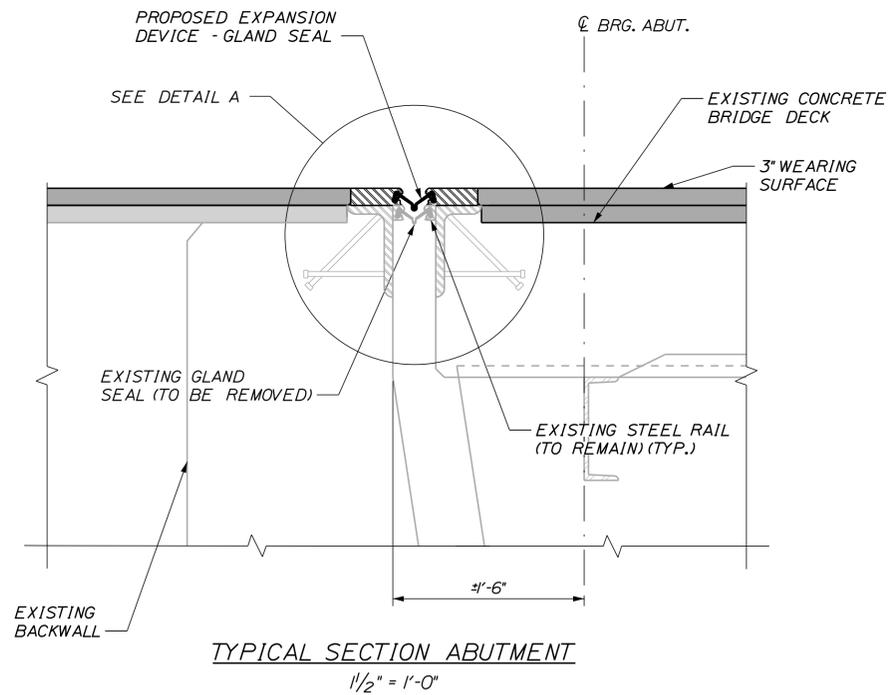
NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
WEBSTER ROAD (MILE 82.7)  
DECK PLAN & SECTION

SHEET NUMBER: WR-05  
CONTRACT: 2019.11  
74 OF 105

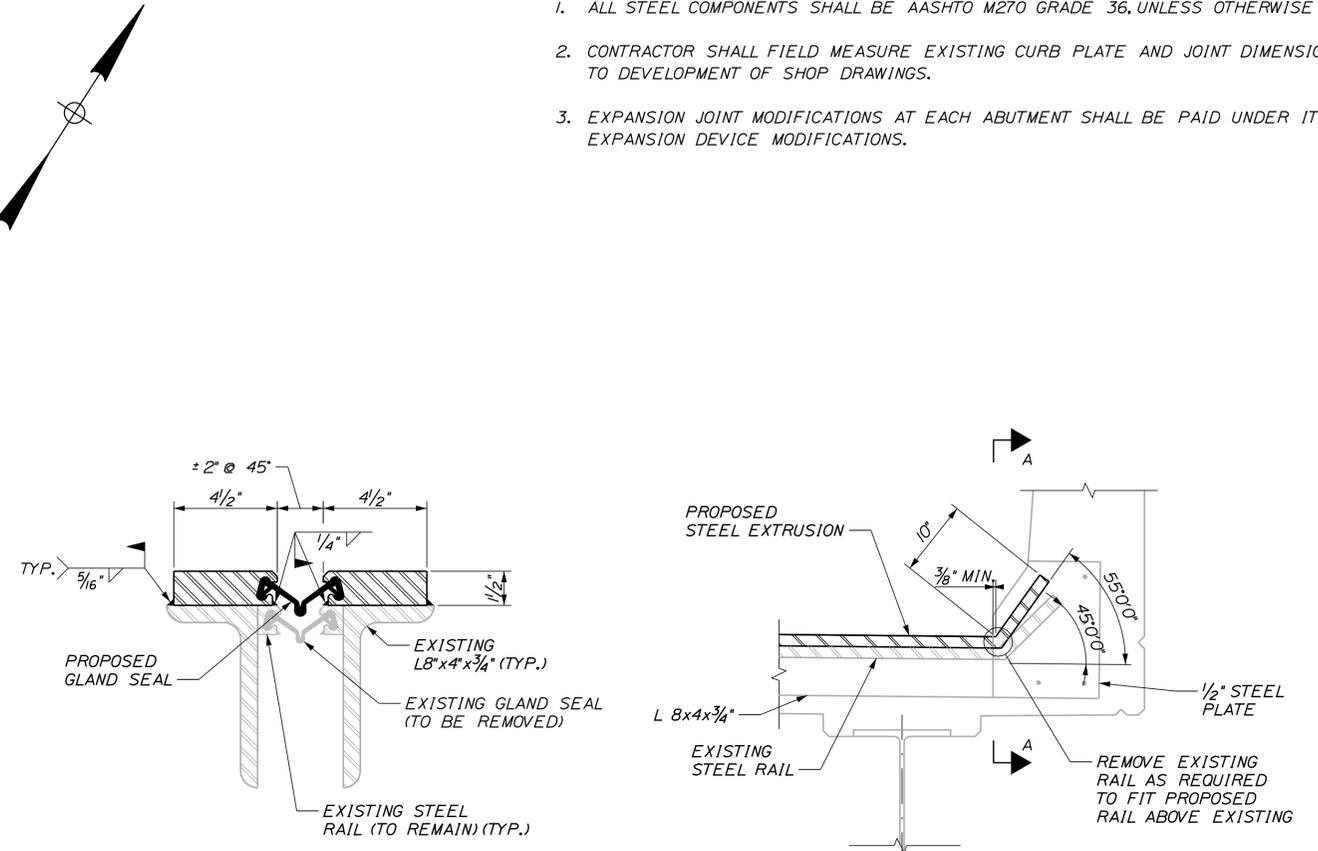
Date: 2/22/2019



**ABUTMENT PLAN - WEBSTER ROAD**  
SCALE: 3/8" = 1'-0"

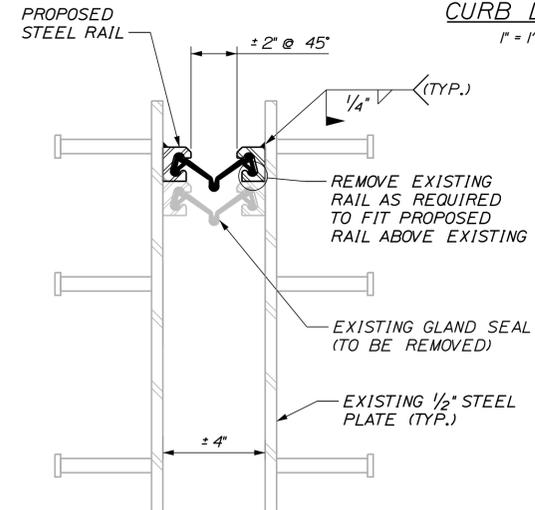


**TYPICAL SECTION ABUTMENT**  
1/2" = 1'-0"



**DETAIL A**  
3" = 1'-0"

**CURB DETAIL**  
1" = 1'-0"



**SECTION A-A**  
3" = 1'-0"  
(CONCRETE NOT SHOWN)

**EXPANSION JOINT NOTES:**

1. ALL STEEL COMPONENTS SHALL BE AASHTO M270 GRADE 36, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL FIELD MEASURE EXISTING CURB PLATE AND JOINT DIMENSIONS PRIOR TO DEVELOPMENT OF SHOP DRAWINGS.
3. EXPANSION JOINT MODIFICATIONS AT EACH ABUTMENT SHALL BE PAID UNDER ITEM 520.22II, EXPANSION DEVICE MODIFICATIONS.

Filename: ...XXX\_MM\_82.7\_Joint\_Repair.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	DSM	9/2018	Checked	NLB	9/2018
Drawn	PEM	9/2018	In Charge of	DSM	1/2019

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FAX: (207) 781-4753



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
WEBSTER ROAD (MILE 82.7)  
JOINT REPAIRS

CONTRACT: 2019.11

SHEET NUMBER: WR-06

75 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_82.7\_Existing\_Structures.dgn

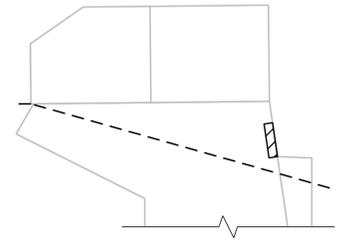
OLD WEBSTER ROAD (MILE 82.7) ABUTMENTS ESTIMATED QUANTITY OF REPAIRS			
	ABUT. NO. 1	ABUT. NO. 2	TOTAL
ABUTMENT REPAIRS	26 S.F.	9 S.F.	35 S.F.

**NOTES:**  
1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

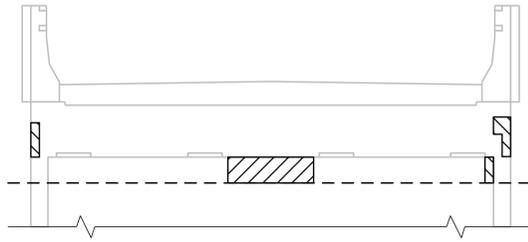
- LEGEND:**
- LIMIT OF CONCRETE SURFACE REPAIRS
  - LIMIT OF EPOXY INJECTED CRACK REPAIR
  - EXISTING CONCRETE
  - EXISTING AND PROPOSED GROUND



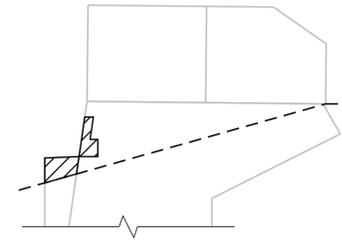
ABUTMENT NO. 1 PLAN



LEFT WING ELEVATION



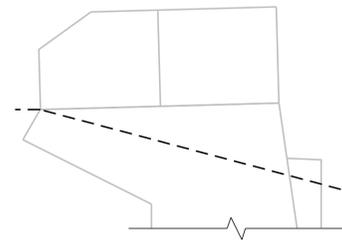
ABUTMENT NO. 1 ELEVATION



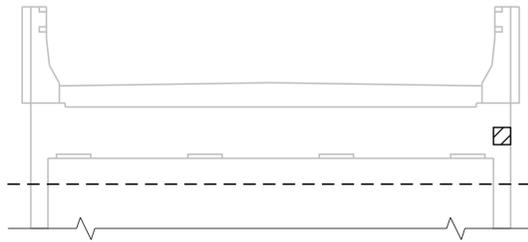
RIGHT WING ELEVATION



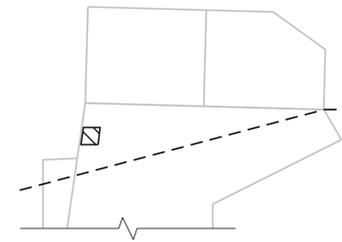
ABUTMENT NO. 2 PLAN



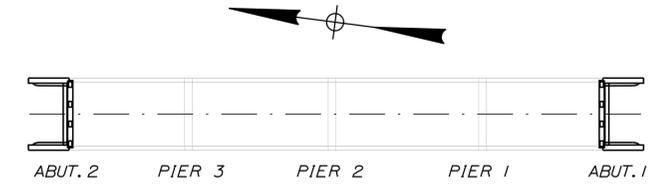
LEFT WING ELEVATION



ABUTMENT NO. 2 ELEVATION



RIGHT WING ELEVATION



LOCATION PLAN

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date	
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	ACP	6/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
WEBSTER ROAD (MILE 82.7)  
SUBSTRUCTURE REPAIRS - 1 OF 3

CONTRACT: 2019.11

SHEET NUMBER: WR-07

76 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_82.7\_Existing\_Structures.dgn

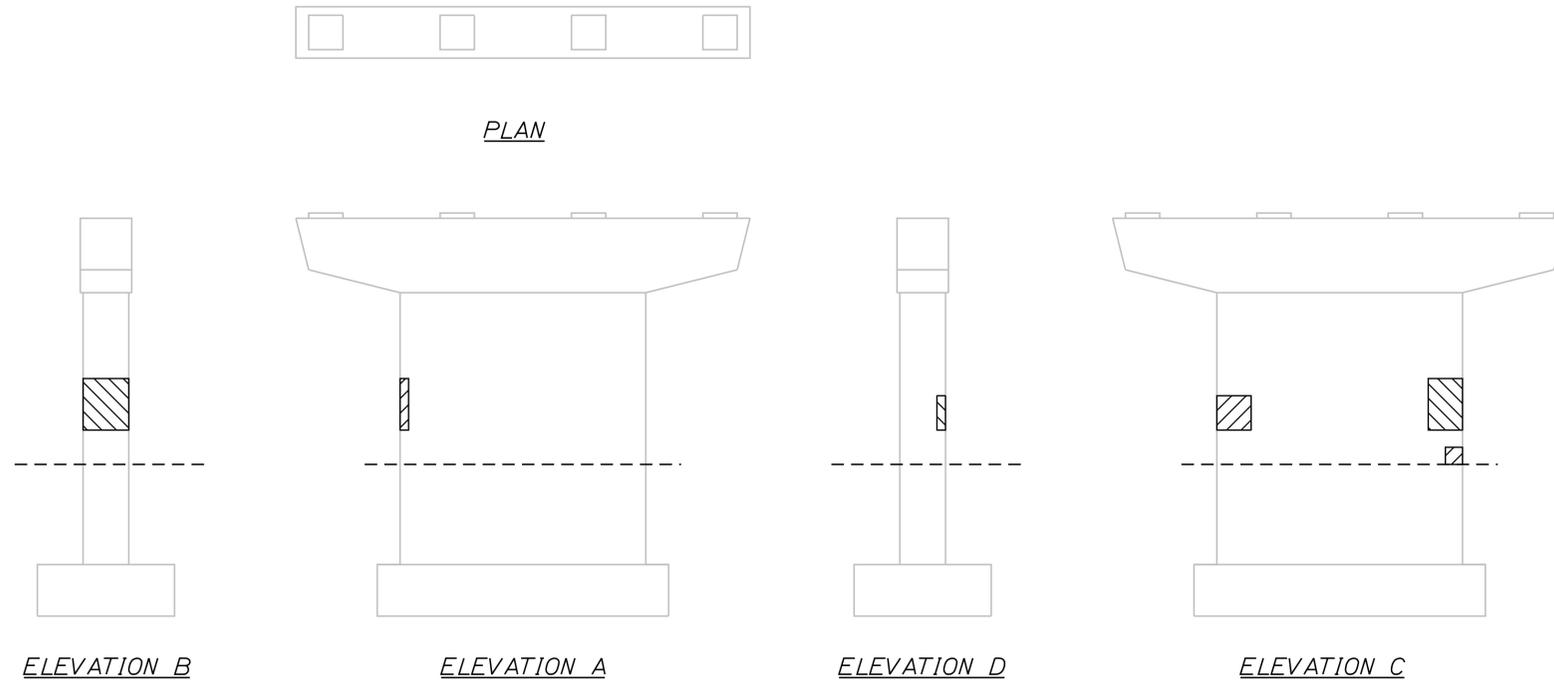
WEBSTER ROAD (MILE 82.7) PIERS ESTIMATED QUANTITY OF REPAIRS				
	PIER NO. 1	PIER NO. 2	PIER NO. 3	TOTAL
PIER REPAIRS	22 S.F.	190 S.F.	8 S.F.	220 S.F.

**NOTES:**

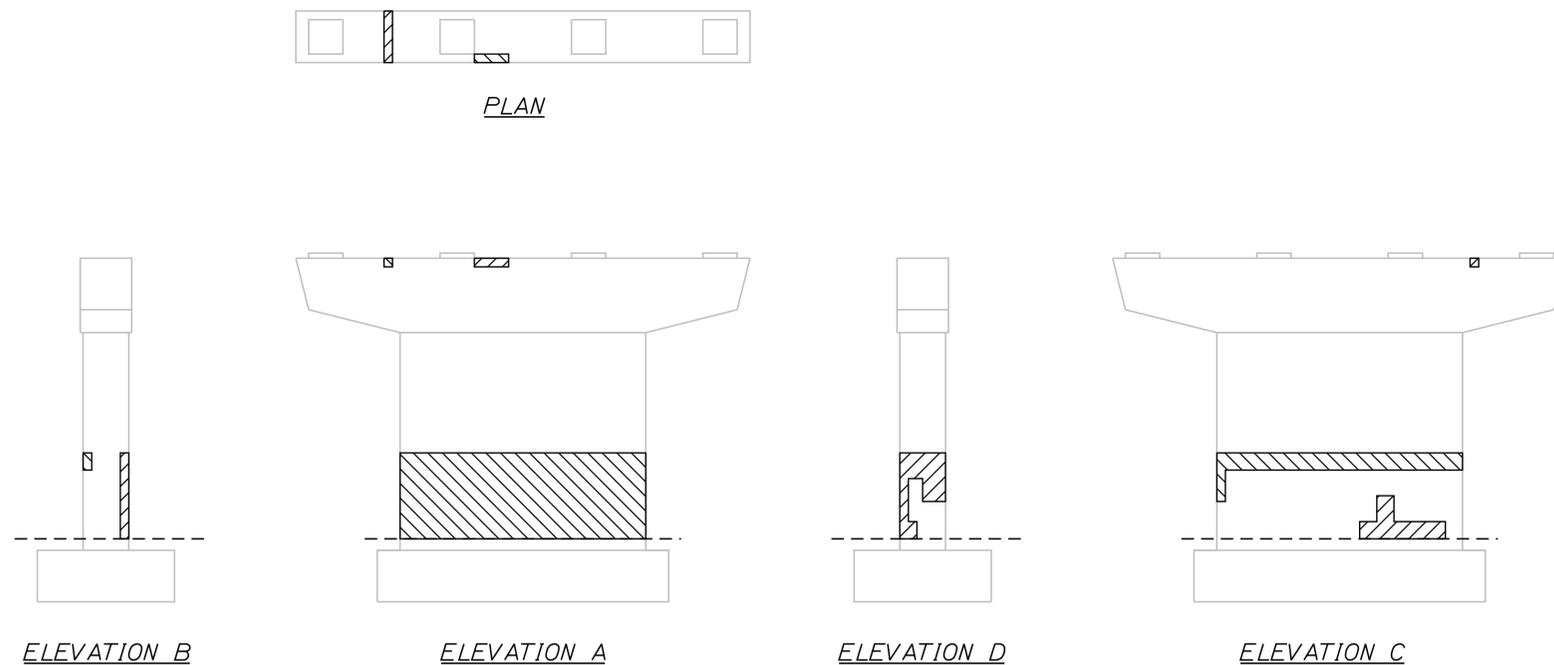
1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

**LEGEND:**

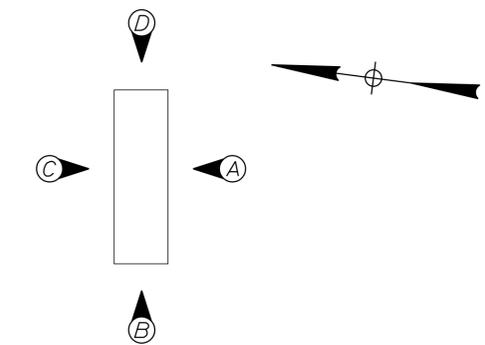
-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIR
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND



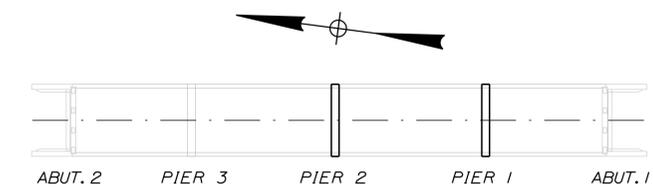
PIER 1



PIER 2



PIER ELEVATIONS



LOCATION PLAN

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	ACP	6/2018	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
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 TEL: (207) 781-4721  
 FAX: (207) 781-4753



THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 WEBSTER ROAD (MILE 82.7)  
 SUBSTRUCTURE REPAIRS - 2 OF 3

SHEET NUMBER: WR-08  
 CONTRACT: 2019.11  
 77 OF 105

Date: 2/22/2019

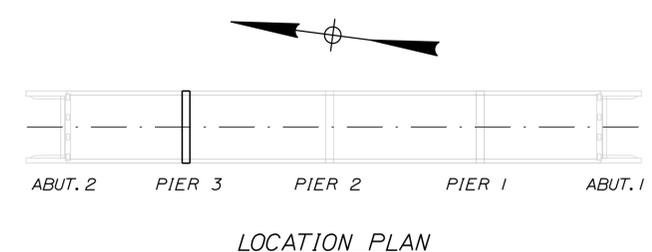
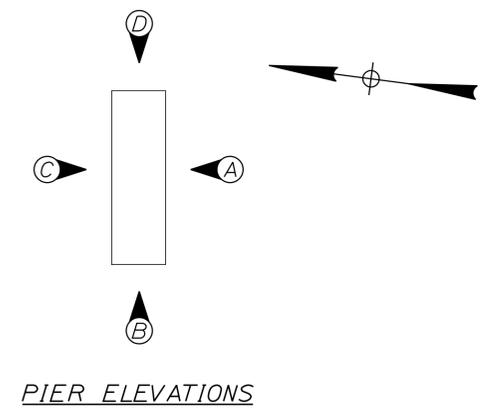
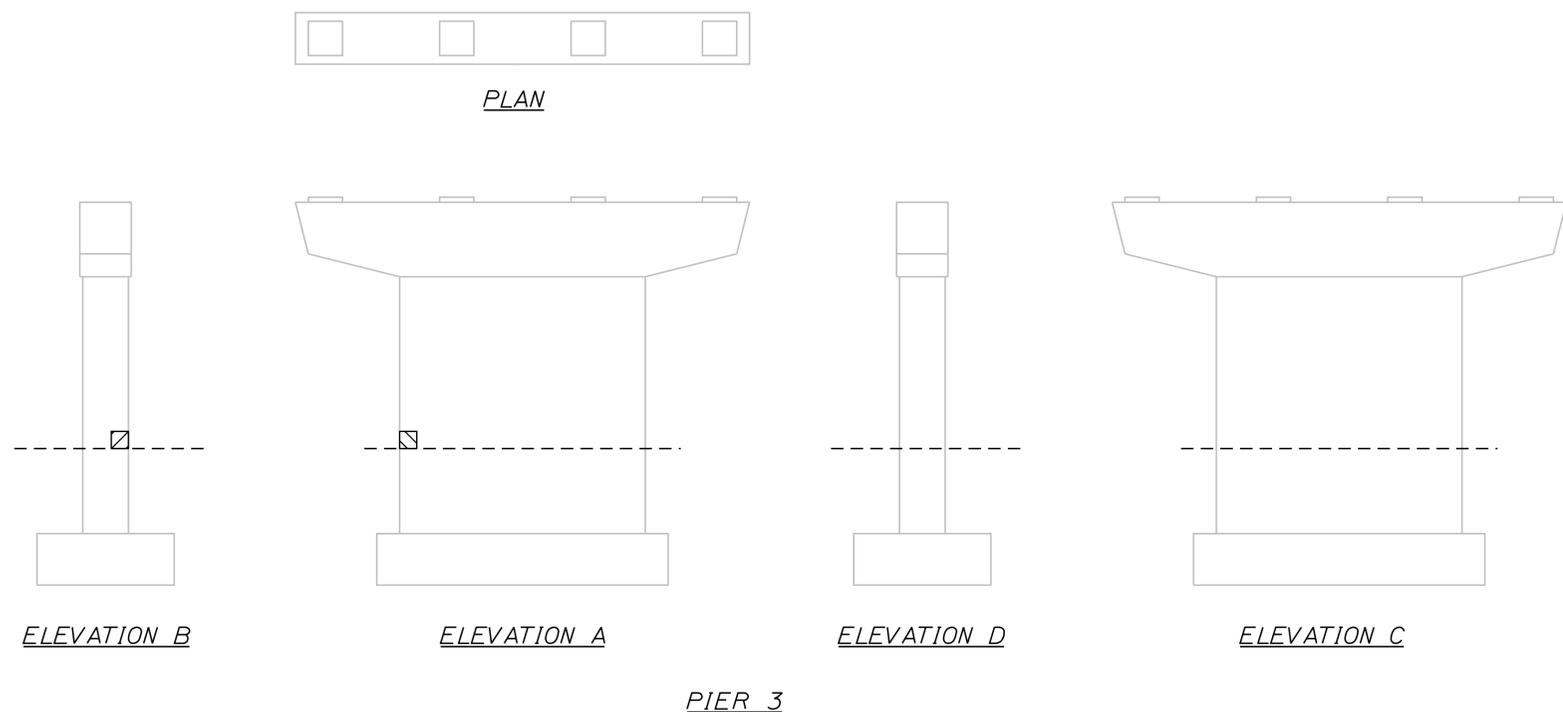
Filename: ...XXX\_MM\_82.7\_Existing\_Structures.dgn

**NOTES:**

1. FOR PROCEDURAL NOTES SEE SHEET "GENERAL NOTES"
2. FOR QUANTITY SEE "(MILE 82.7) SUBSTRUCTURE REPAIRS 2 OF 3"

**LEGEND:**

-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIR
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TY-LIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	ACP	6/2018	In Charge of	DSM	1/2019

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 x 972017



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 WEBSTER ROAD (MILE 82.7)  
 SUBSTRUCTURE REPAIRS - 3 OF 3

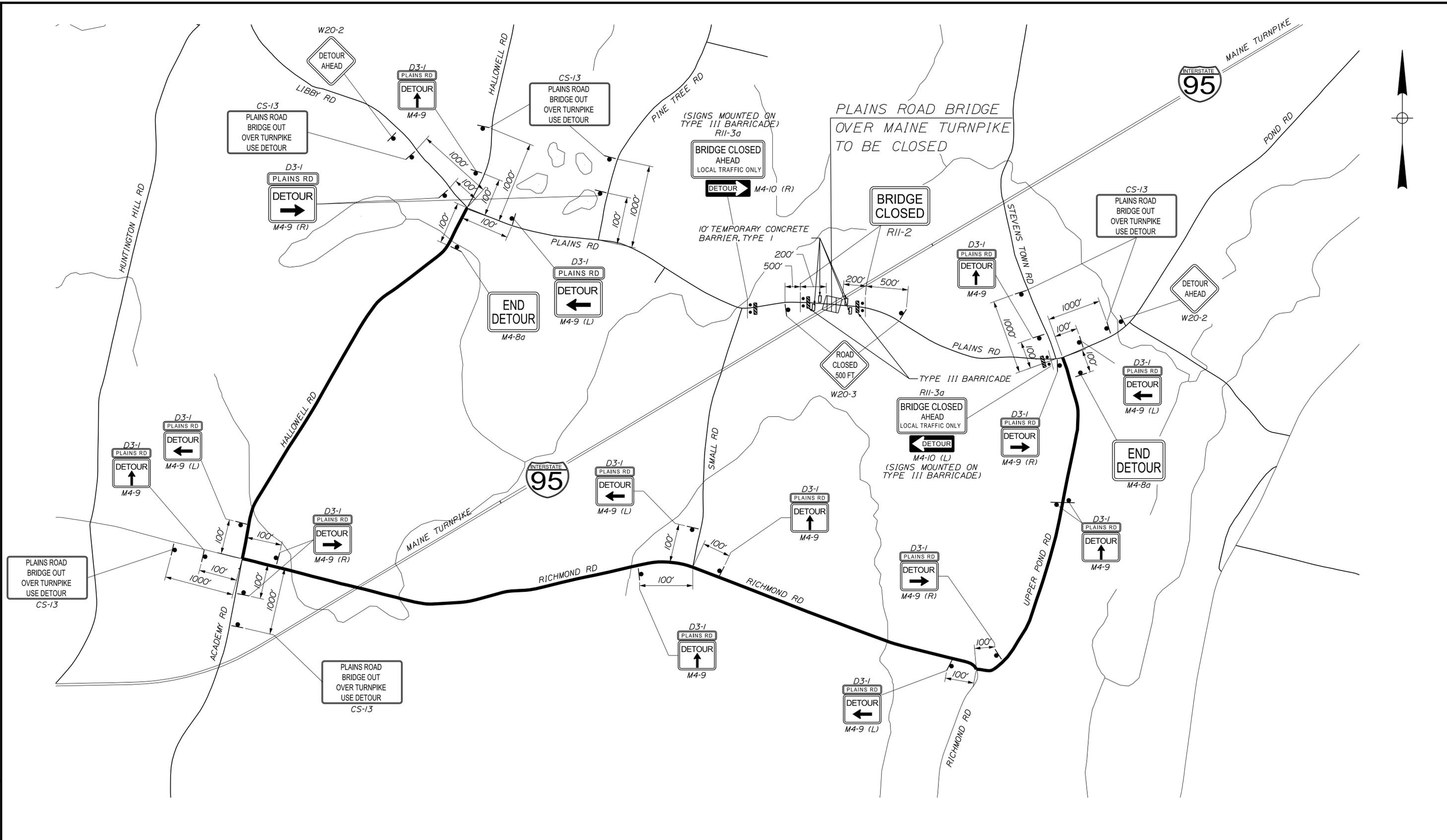
CONTRACT: 2019.11

SHEET NUMBER: WR-09

78 OF 105

Date: 2/22/2019

Filename: ...XXX\_95.6\_MOT\_Detour\_Plan.dgn



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	GC	12/2018	Checked	KSD	12/2018
Drawn	GC	12/2018	In Charge of	DSM	1/2019

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 DETOUR PLAN

SHEET NUMBER: PR-01  
 CONTRACT: 2019.11  
 79 OF 105

Date: 2/22/2019

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	48"	48"		7C 7C	6"		2	ORANGE	BLACK		16.00 (32)	
CS-13	54"	36"		5C 5C 5C 5C	3" 3" 3"		7	ORANGE	BLACK		13.50 (94.5)	
D3-1	42"	12"		5D			18	ORANGE	BLACK		3.50 (63)	
G20-2	36"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		6.00 (24)	
G20-5aP	48"	24"					4	ORANGE	BLACK		8.00 (32)	
M4-8A	24"	18"					2	ORANGE	BLACK		3.00 (6)	
M4-9	30"	24"					7	ORANGE	BLACK		5.00 (35)	
M4-9L	30"	24"					5	ORANGE	BLACK		5.00 (25)	
M4-9R	30"	24"					6	ORANGE	BLACK		5.00 (30)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
M4-10R	48"	18"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			1	ORANGE	BLACK		6.00 (6)	
M4-10L	48"	18"					1	ORANGE	BLACK		6.00 (6)	
R2-1	48"	60"					4	WHITE	BLACK		20.00 (80)	
R2-6aP	36"	24"					4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
R11-2	48"	30"					2	WHITE	BLACK		10.00 (20)	
R11-3a	60"	30"					2	WHITE	BLACK		12.50 (25)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	

Filename: ...XXX\_MOT\_Sign\_Sum\_03\_95.6.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	TWA	1/2019	Checked	PJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS

PLAINS ROAD (MILE 95.6)

M.O.T. SIGN SUMMARY 1 OF 2

SHEET NUMBER: PR-02

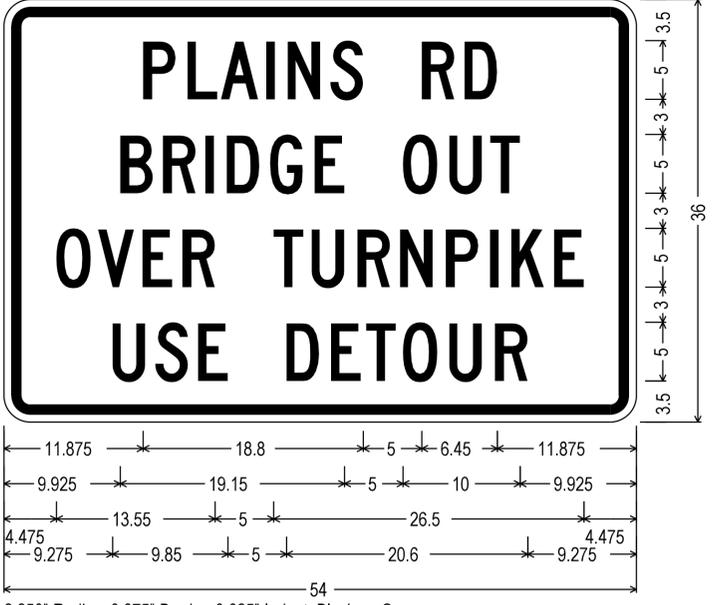
CONTRACT: 2019.11 80 OF 105

Date: 2/22/2019

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W4-2 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W8-1	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					4	ORANGE	BLACK		7.50 (30)	
W20-1 (1 MILE) (AHEAD)	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W20-2	36"	36"					2	ORANGE	BLACK		9.00 (18)	
W20-3 (500)	36"	36"					1	ORANGE	BLACK		9.00 (9)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-5 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5aR (LEFT) (RIGHT)	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5bR (LEFT) (RIGHT)	48"	48"					2	ORANGE	BLACK		16.00 (32)	

CS-13



2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;  
 [PLAINS RD] Black C 2K; [BRIDGE OUT] Black C 2K;  
 [OVER TURNPIKE] Black C 2K; [USE DETOUR] Black C 2K;

Filename: ...XXX\_MOT\_Sign\_Sum\_03\_95.6.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	PJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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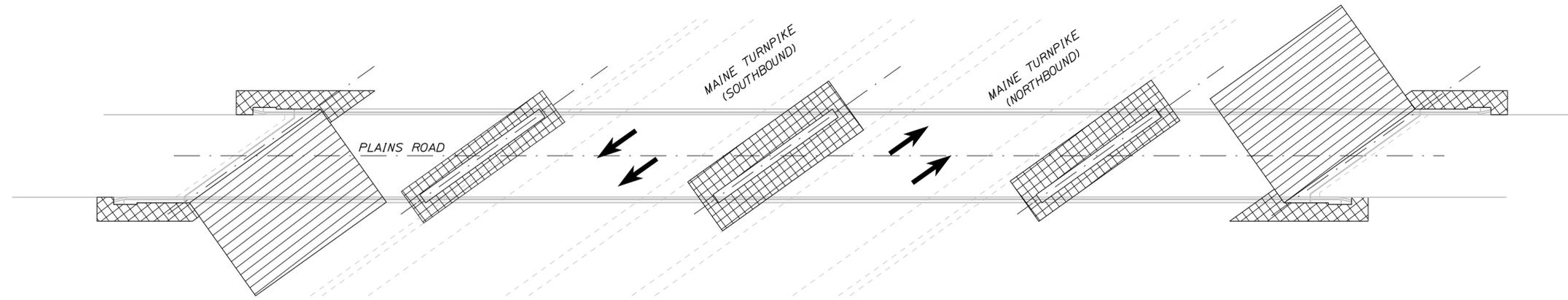
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 M.O.T. SIGN SUMMARY 2 OF 2

SHEET NUMBER: PR-03  
 CONTRACT: 2019.11  
 81 OF 105

Date: 2/22/2019



LIMIT OF DISTURBANCE PLAN - PLAINS ROAD

**LEGEND:**

- CONTRACT LIMIT OF DISTURBANCE
- CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

**AREAS:**

CONTRACT LIMIT OF DISTURBANCE:

PLAINS ROAD = 0.08 ACRES

CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:

PLAINS ROAD = 0.06 ACRES

**NOTES:**

1. EROSION AND SEDIMENT CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
2. THE CONTRACTOR WILL BE ALLOWED TO STORE MATERIAL AND EQUIPMENT ON GRAVEL AND PAVEMENT WITHIN THE CLOSED PORTIONS OF PLAINS ROAD. THESE AREAS ARE EITHER INCLUDED IN THE LIMITS OF DISTURBANCE OR HAVE BEEN PREVIOUSLY SURFACED AND DO NOT ADD TO THE LIMITS OF DISTURBANCE.
3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Scale:			
No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TSK	1/2019	Checked	TSK	1/2019
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

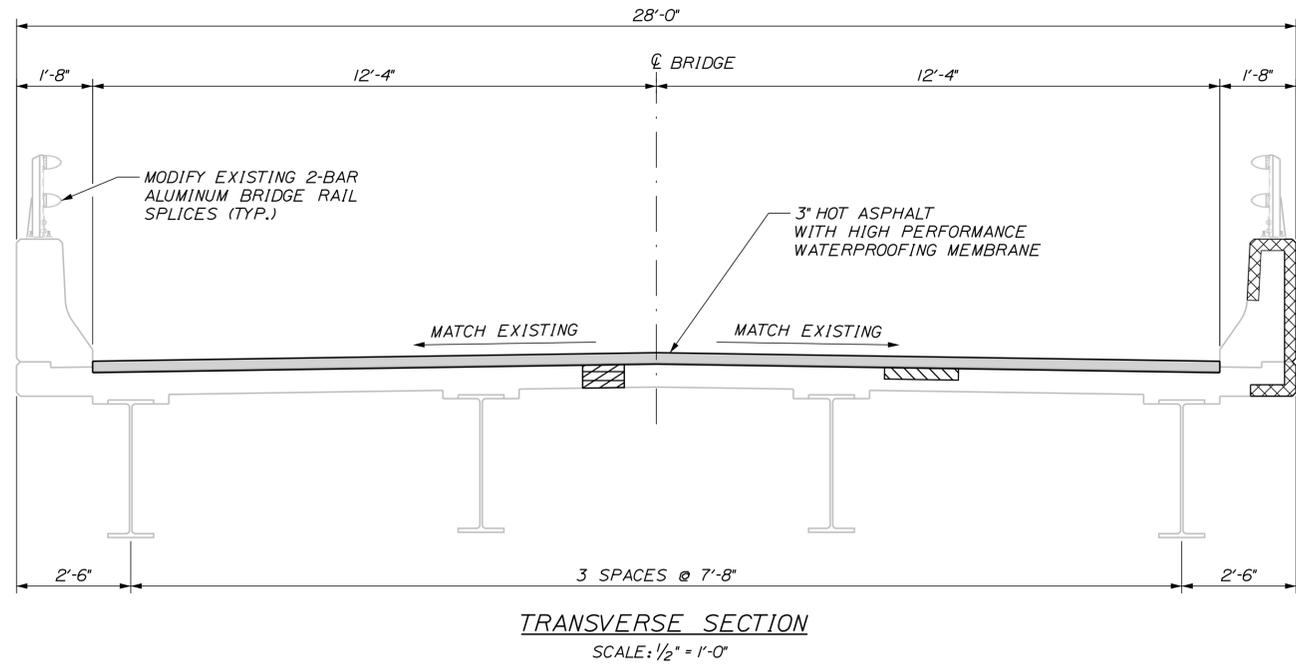
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 LIMIT OF DISTURBANCE

SHEET NUMBER: PR-04  
 CONTRACT: 2019.11  
 82 OF 105

Filename: ... \MSTAXXX\_LODPlan\_95.6.dgn

Date: 2/22/2019



ESTIMATED REPAIR QUANTITIES		
FULL DEPTH CONCRETE DECK REPAIRS (S.F.)	PARTIAL DEPTH CONCRETE DECK REPAIRS (S.F.)	FASCIA AND OVERHANG REPAIRS (S.F.)
5 S.F.	110 S.F.	500 S.F.

- LEGEND:**
- LIMITS OF FULL DEPTH CONCRETE REPAIR (REPAIR AREAS TO BE FIELD VERIFIED)
  - LIMITS OF PARTIAL DEPTH CONCRETE DECK REPAIRS (REPAIR AREAS TO BE FIELD VERIFIED)
  - LIMITS OF FASCIA AND OVERHANG REPAIRS (REPAIR AREAS TO BE FIELD VERIFIED)

- NOTES:**
- CONTRACTOR SHALL REPAIR AREAS OF CONCRETE DECK DETERIORATION AS IDENTIFIED BY THE RESIDENT. RESIDENT SHALL IDENTIFY AND MARK AREAS FOR DECK REPAIR AFTER THE WEARING SURFACE AND MEMBRANE ARE REMOVED. CONTRACTOR SHALL ALSO REPAIR DETERIORATED AREAS OF FASCIA, FASCIA OVERHANGS, AND PARAPET JOINTS. COORDINATE WORK WITH THE RESIDENT. PAYMENT FOR REPAIR WORK SHALL BE UNDER THE 518 PAY ITEMS.
  - ALL PVC DECK WEEPS WHICH DRAIN ONTO PIERS, ABUTMENTS OR STRUCTURAL STEEL SHALL BE EXTENDED AND DIVERTED AWAY FROM BRIDGE COMPONENTS BELOW DECK, AND SHALL EXTEND 1 FT BELOW BOTTOM FLANGE, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE BY THE VARIOUS LABOR AND EQUIPMENT ITEMS. SEE DETAIL SHEET "MISCELLANEOUS DETAILS SHEET 2 OF 3" & "MISCELLANEOUS DETAILS SHEET 3 OF 3".
  - FOR WORK REQUIRED AT DRAIN TROUGHS, SEE SHEET "MISCELLANEOUS DETAILS SHEET 1 OF 3".
  - A BEAD OF HOT-APPLIED RUBBERIZED ASPHALT SEALER SHALL BE APPLIED ALONG CURB LINES AFTER INSTALLATION OF BASE COURSE. PAYMENT SHALL NOT BE MADE DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.

Filename: ...XXX\_MM\_95.6\_Typical\_Deck\_Plan\_Section.dgn

Scale:

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	10/2018	Checked	DSM	1/2019
Drawn	ACP	10/2018	In Charge of	DSM	1/2019

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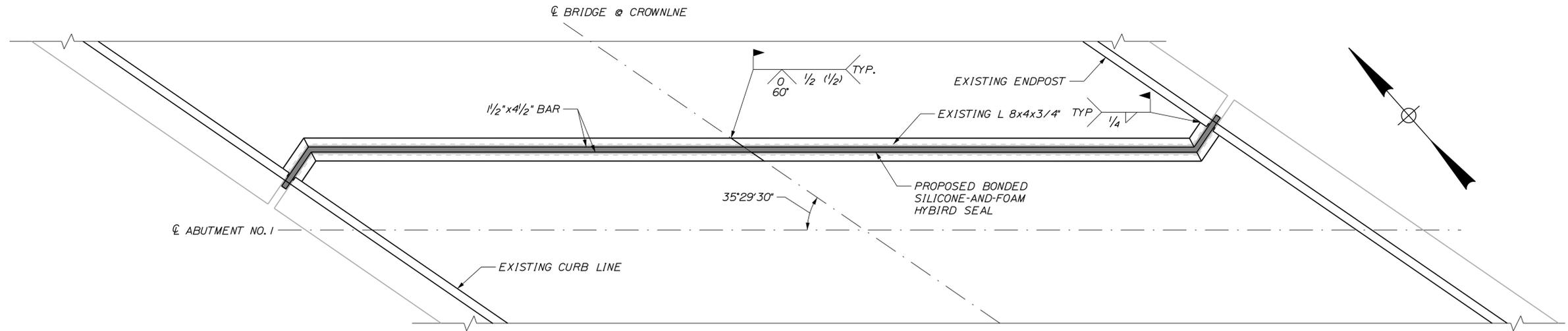
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 DECK PLAN & SECTION

SHEET NUMBER: PR-05  
 CONTRACT: 2019.11  
 83 OF 105

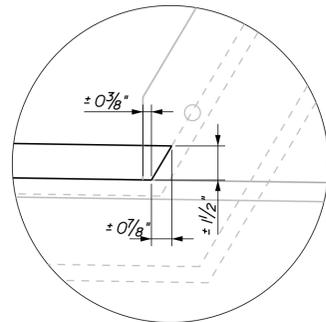
Date: 2/22/2019



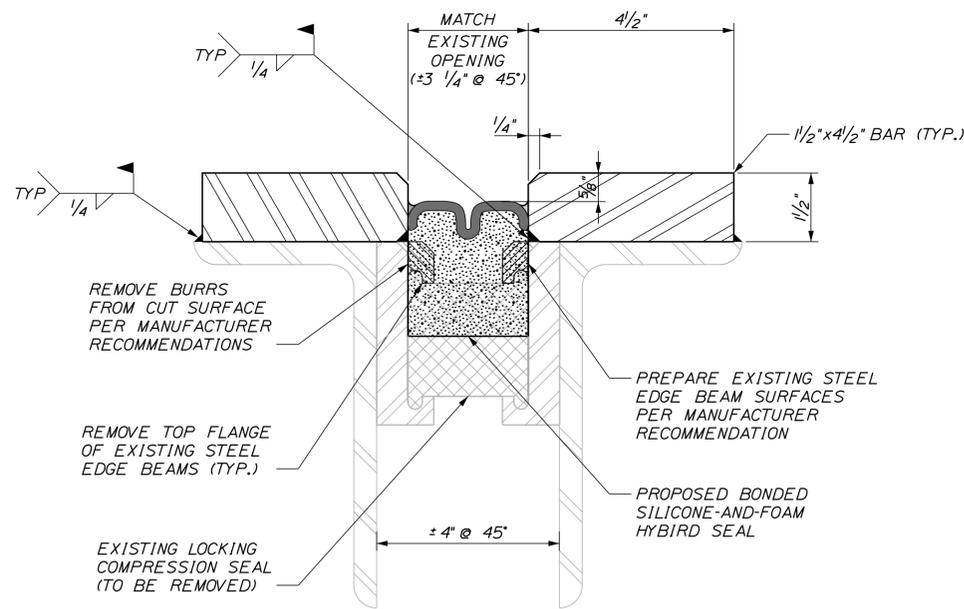
**PLAN**  
SCALE: 3/8" = 1'-0"  
(ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR)

**JOINT REPAIR NOTES:**

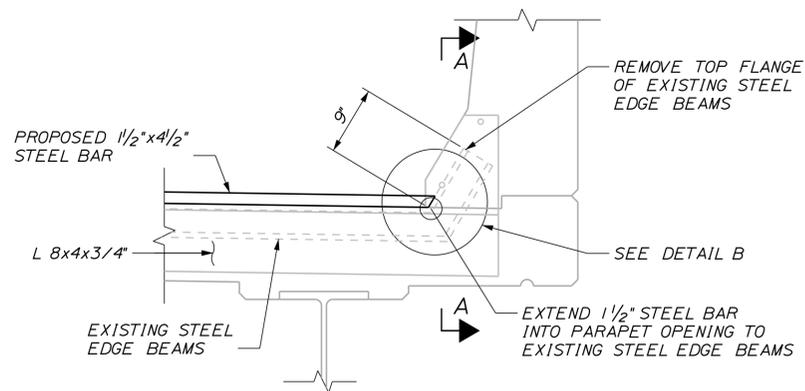
1. ALL STEEL COMPONENTS SHALL BE AASHTO M270 GRADE 36, UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL FIELD MEASURE EXISTING CURB PLATE AND JOINT DIMENSIONS PRIOR TO DEVELOPMENT OF SHOP DRAWINGS.
3. EXPANSION JOINT MODIFICATIONS AT EACH ABUTMENT SHALL BE PAID UNDER ITEM 520.22II, EXPANSION DEVICE MODIFICATIONS.
4. CONTRACTOR SHALL REPLACE EXISTING NEOPRENE COMPRESSION SEALS WITH NEW BONDED SILICONE-AND-FOAM HYBRID SEALS.
5. THE BONDED SILICONE-AND-FOAM HYBRID SEALS TO BE FURNISHED SHALL HAVE A MINIMUM MOVEMENT RANGE OF 1/2 INCHES.



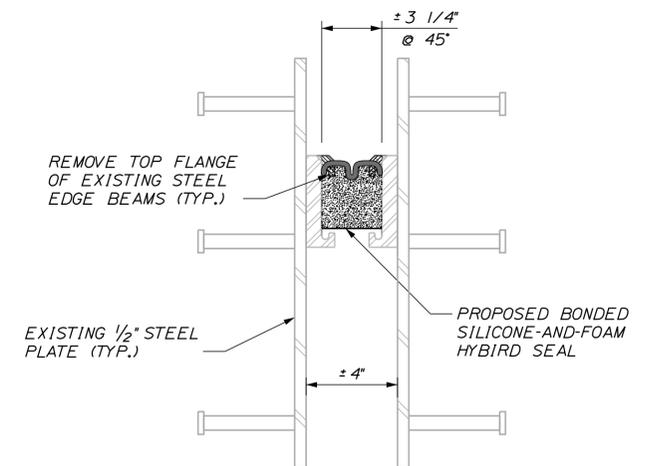
**DETAIL B**



**EDGE BEAM MODIFICATIONS AND PROPOSED SEAL TYPICAL SECTION**  
SCALE: 6" = 1'-0"



**CURB DETAIL**  
SCALE: 1" = 1'-0"



**SECTION A-A**  
SCALE: 3" = 1'-0"  
(CONCRETE NOT SHOWN)

Filename: ...\\XXX\_MM\_95.6\_Joint\_Repair.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	SAM	9/2018	In Charge of	DSM	1/2019

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**MAINE  
TURNPIKE**

THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
PLAINS ROAD (MILE 95.6)  
JOINT REPAIRS

SHEET NUMBER: PR-06  
CONTRACT: 2019.11  
84 OF 105

Date: 2/22/2019

Filename: ...\\XXX\_MM\_95.6\_Existing\_Structures.dgn

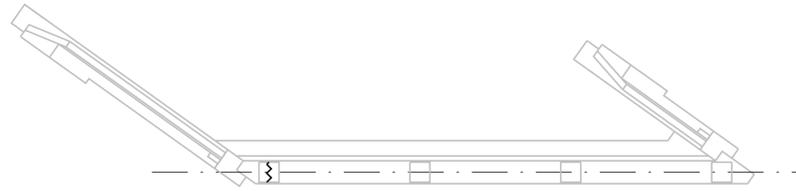
PLAINS ROAD (MILE 95.6) ABUTMENTS ESTIMATED QUANTITY OF REPAIRS			
	ABUT. NO. 1	ABUT. NO. 1	TOTAL
ABUTMENT REPAIRS	0 S.F.	10 S.F.	10 S.F.
EPOXY-INJECTED CRACK REPAIR	5 S.F.	0 S.F.	2 S.F.

**NOTES:**

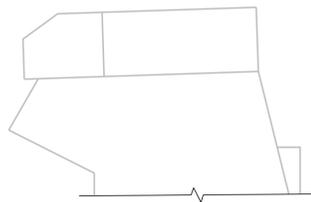
1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

**LEGEND:**

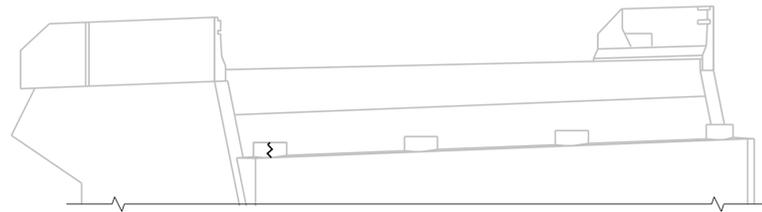
-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIR
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND



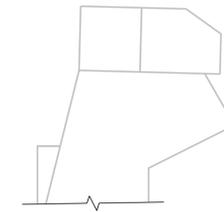
ABUTMENT NO. 1 PLAN



LEFT WING ELEVATION



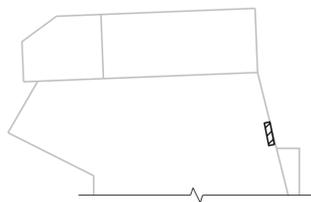
ABUTMENT NO. 1 ELEVATION



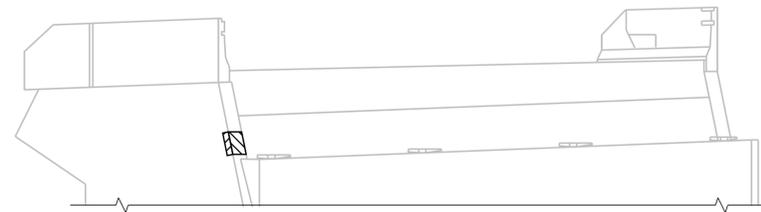
RIGHT WING ELEVATION



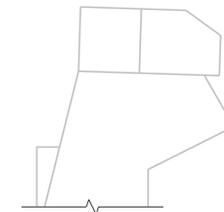
ABUTMENT NO. 2 PLAN



LEFT WING ELEVATION



ABUTMENT NO. 2 ELEVATION



RIGHT WING ELEVATION



LOCATION PLAN



Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>TY-LIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	ACP	6/2018	In Charge of	DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 SUBSTRUCTURE REPAIRS - 1 OF 3

SHEET NUMBER: PR-07  
 CONTRACT: 2019.11  
 85 OF 105

Date: 2/22/2019

Filename: ...XXX\_MM\_95.6\_Existing\_Structures.dgn

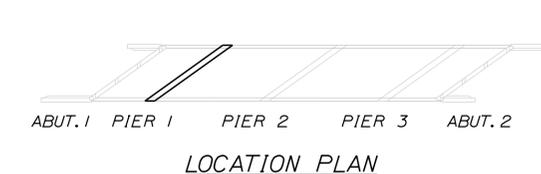
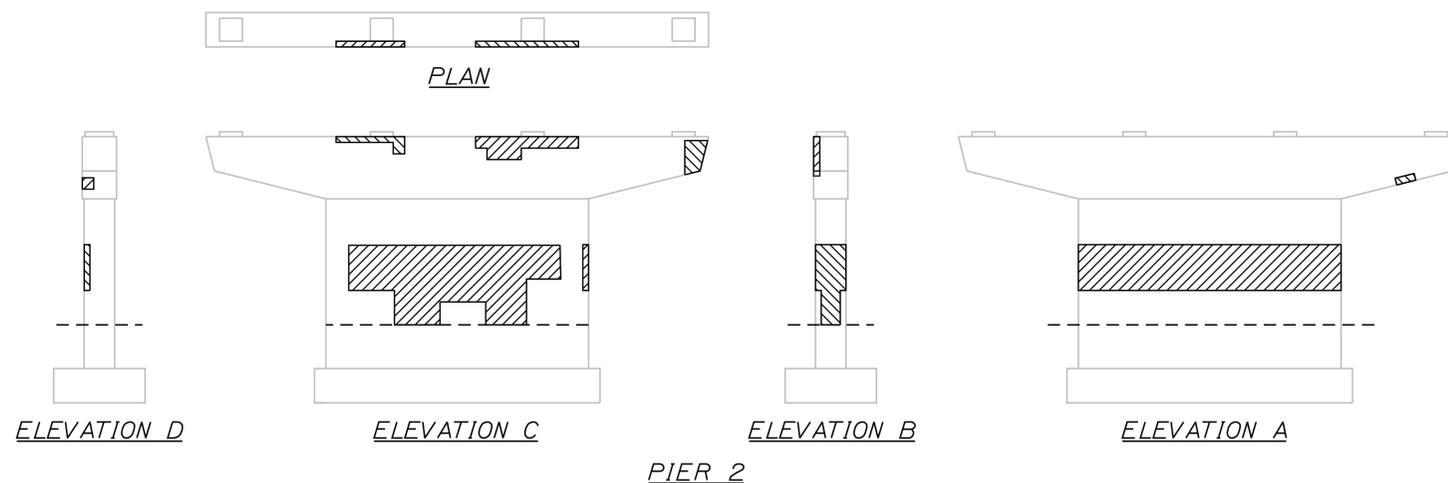
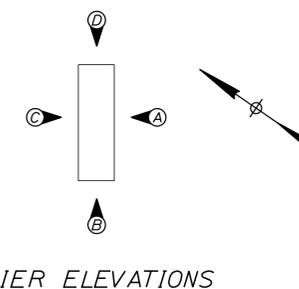
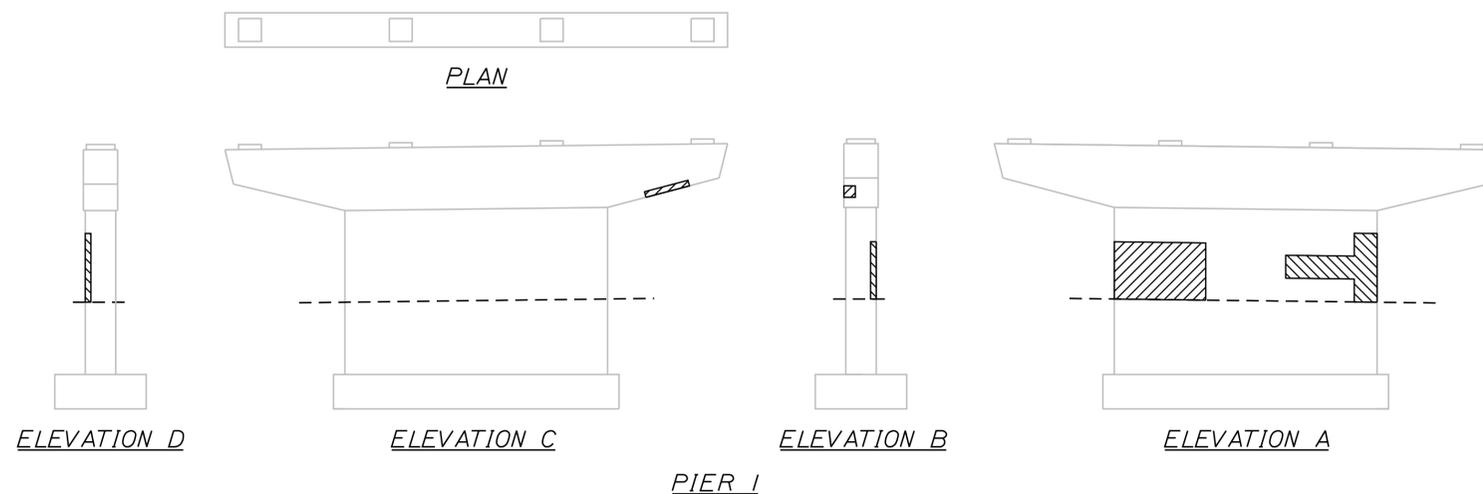
PLAINS ROAD (MILE 95.6) PIERS ESTIMATED QUANTITY OF REPAIRS				
	PIER NO. 1	PIER NO. 2	PIER NO. 3	TOTAL
PIER REPAIRS	115 S.F.	315 S.F.	300 S.F.	730 S.F.

**NOTES:**

1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

**LEGEND:**

- LIMIT OF CONCRETE SURFACE REPAIRS
- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- EXISTING AND PROPOSED GROUND



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date	By	Date	
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	ACP	6/2018	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 SUBSTRUCTURE REPAIRS - 2 OF 3

SHEET NUMBER: PR-08  
 CONTRACT: 2019.11  
 86 OF 105

Date: 2/22/2019

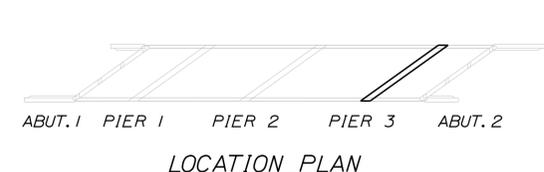
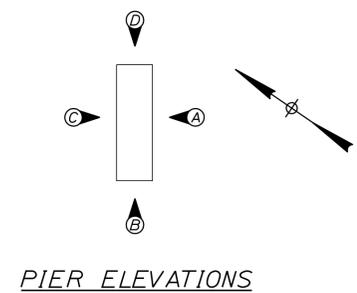
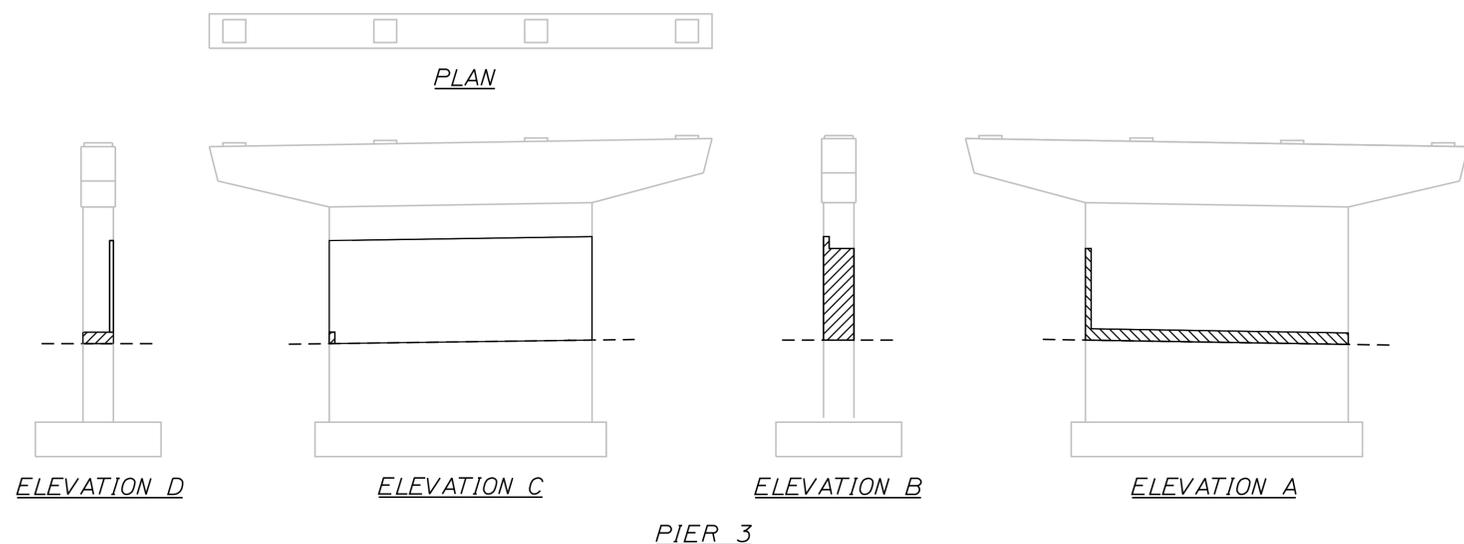
Filename: ...XXX\_MM\_95.6\_Existing\_Structures.dgn

**NOTES:**

1. FOR PROCEDURAL NOTES SEE SHEET "GENERAL NOTES"
2. FOR QUANTITY, SEE "(MILE 95.6) SUBSTRUCTURE REPAIRS 2 OF 3"

**LEGEND:**

-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIR
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND



Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	JJL	11/2018	Checked	BLT	11/2018
Drawn	ACP	6/2018	In Charge of	DSM	1/2019

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 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753



**THE GOLD STAR MEMORIAL HIGHWAY**

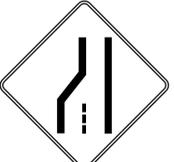
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLAINS ROAD (MILE 95.6)  
 SUBSTRUCTURE REPAIRS - 3 OF 3

SHEET NUMBER: PR-09  
 CONTRACT: 2019.11  
 87 OF 105

Date: 2/22/2019

Filename: ...XXX\_MOT\_Sign\_Sum\_05\_Pleasant\_River.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	48"	48"		7C 7C	6"		2	ORANGE	BLACK		16.00 (32)	
G20-2	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		8.00 (32)	
G20-5aP	36"	24"					4	ORANGE	BLACK		6.00 (24)	
R2-1 (50)	48"	60"					4	WHITE	BLACK		20.00 (80)	
R2-6aP	36"	24"					4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W8-1	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					4	ORANGE	BLACK		7.50 (30)	
W20-1 (1 MILE) (AHEAD)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W20-5 (RIGHT) (LEFT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5a (RIGHT) (LEFT)	48" 48"	48" 48"					2 2	ORANGE	BLACK		16.00 (32) 16.00 (32)	
W21-5b (RIGHT) (LEFT)	48" 48"	48" 48"					2 2	ORANGE	BLACK		16.00 (32) 16.00 (32)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	JJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

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 12 Northbrook Drive  
 Building A, Suite One  
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 TEL: (207) 781-4721  
 FAX: (207) 781-4753



**THE GOLD STAR MEMORIAL HIGHWAY**

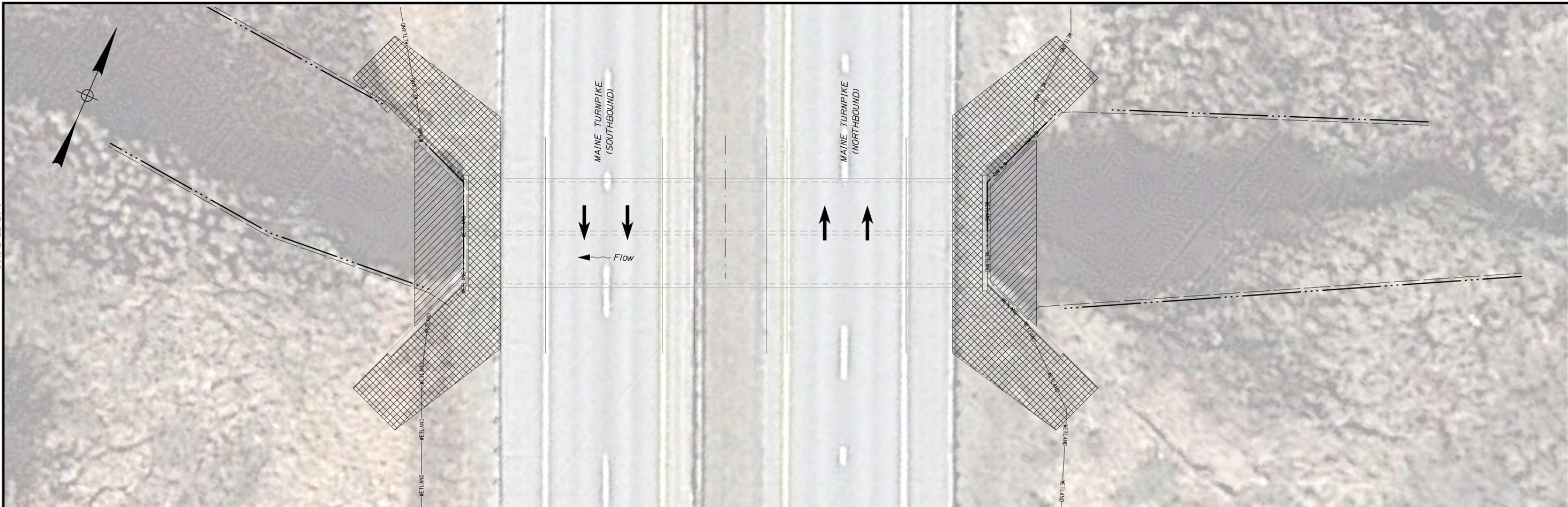
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLEASANT RIVER CULVERT (MILE 62.3)  
 M.O.T. SIGN SUMMARY

SHEET NUMBER: PC-01  
 88 OF 105

CONTRACT: 2019.11

Date: 2/22/2019



LIMIT OF DISTURBANCE PLAN - PLEASANT RIVER CULVERT

LEGEND:

-  COFFERDAM LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

AREAS:

- COFFERDAM LIMIT OF DISTURBANCE:  
PLEASANT RIVER CULVERT = 0.013 ACRES
- CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:  
PLEASANT RIVER CULVERT = 0.046 ACRES

NOTES:

1. EROSION AND SEDIMENT 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 INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Filename: ... \MSTAYXXX\_LODPlan\_62.3.dgn

Scale:			
1" = 10'			
No.	Revision	By	Date

Designed by:					
<b>TY-LIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	TSK	1/2019	Checked	DSM	1/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

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 FAX: (207) 781-4753



THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
PLEASANT RIVER CULVERT (MILE 62.3)  
LIMIT OF DISTURBANCE

SHEET NUMBER: PC-02  
CONTRACT: 2019.11

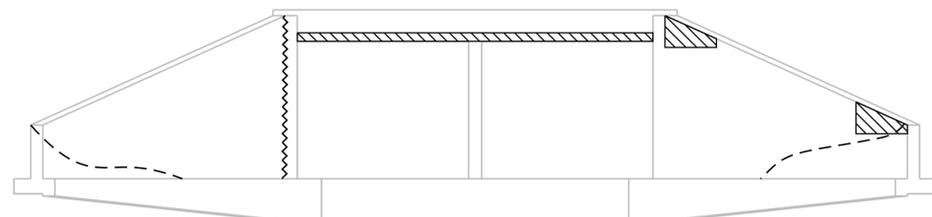
**LEGEND:**

-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIRS
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND

**NOTE:**

1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

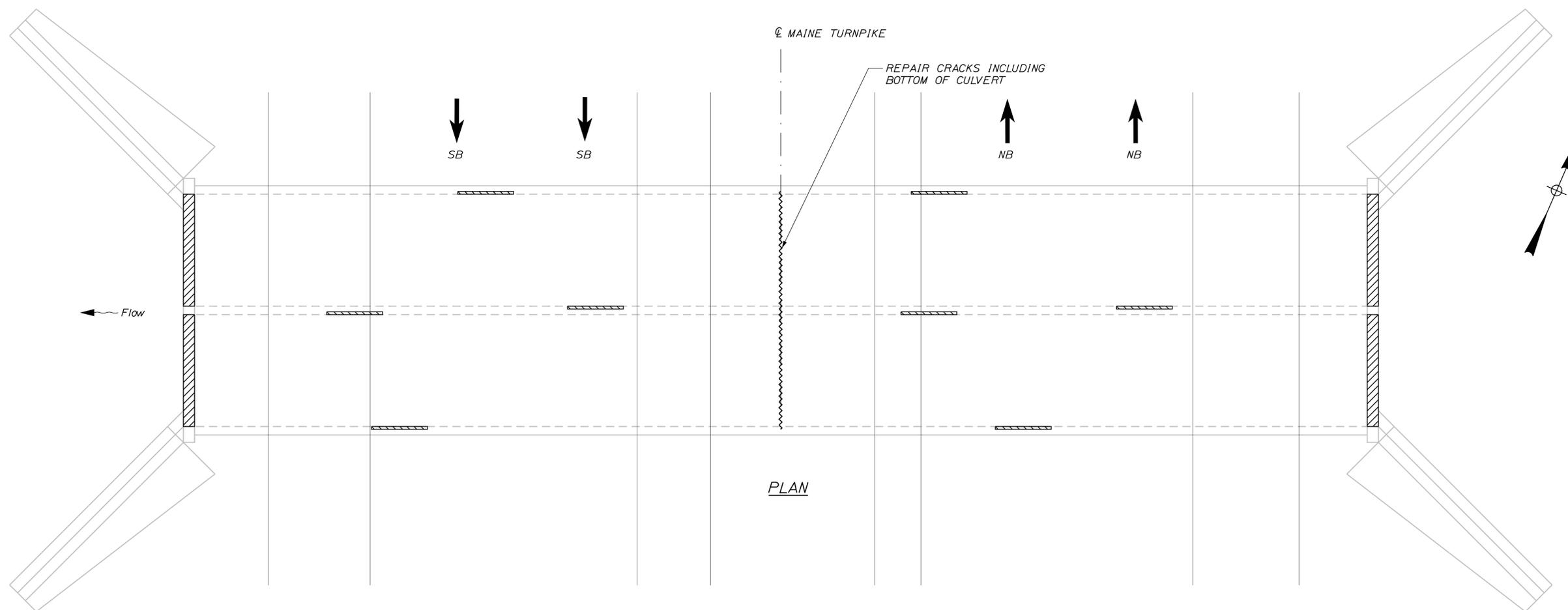
PLEASANT RIVER CULVERT (MILE 62.3) ESTIMATED QUANTITY OF REPAIRS				
	HEADWALLS	WINGWALLS	CULVERT BARRELS	TOTAL
CRACK REPAIRS	0 L.F.	12 L.F.	108 L.F.	48 L.F.
CONCRETE REPAIRS	30 S.F.	5 S.F.	90 S.F.	125 S.F.



WEST END VIEW



EAST END VIEW



PLAN

Date: 2/22/2019

Filename: ...XXX\_MM\_62.3\_Existing\_Structures.dgn

Scale:			
3/16" = 1'-0"			
No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed DSM	9/2018	Checked BLT	12/2018
Drawn RK	9/2018	In Charge of DSM	1/2019

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 FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 PLEASANT RIVER CULVERT (MILE 62.3)  
 CULVERT REPAIRS

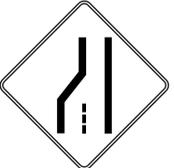
CONTRACT: 2019.11

SHEET NUMBER: PC-03

90 OF 105

Date: 2/22/2019

Filename: ...XXX\_MOT\_Sign\_Sum\_06\_Cole\_Brook.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	48"	48"		7C 7C	6"		2	ORANGE	BLACK		16.00 (32)	
G20-2	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		8.00 (32)	
G20-5aP	36"	24"					4	ORANGE	BLACK		6.00 (24)	
R2-1 (50)	48"	60"					4	WHITE	BLACK		20.00 (80)	
R2-6aP	36"	24"					4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W8-1	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					4	ORANGE	BLACK		7.50 (30)	
W20-1 (1 MILE) (AHEAD)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W20-5 (RIGHT) (LEFT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5a (RIGHT) (LEFT)	48" 48"	48" 48"					2 2	ORANGE	BLACK		16.00 (32) 16.00 (32)	
W21-5b (RIGHT) (LEFT)	48" 48"	48" 48"					2 2	ORANGE	BLACK		16.00 (32) 16.00 (32)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	JJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753

**MAINE TURNPIKE**

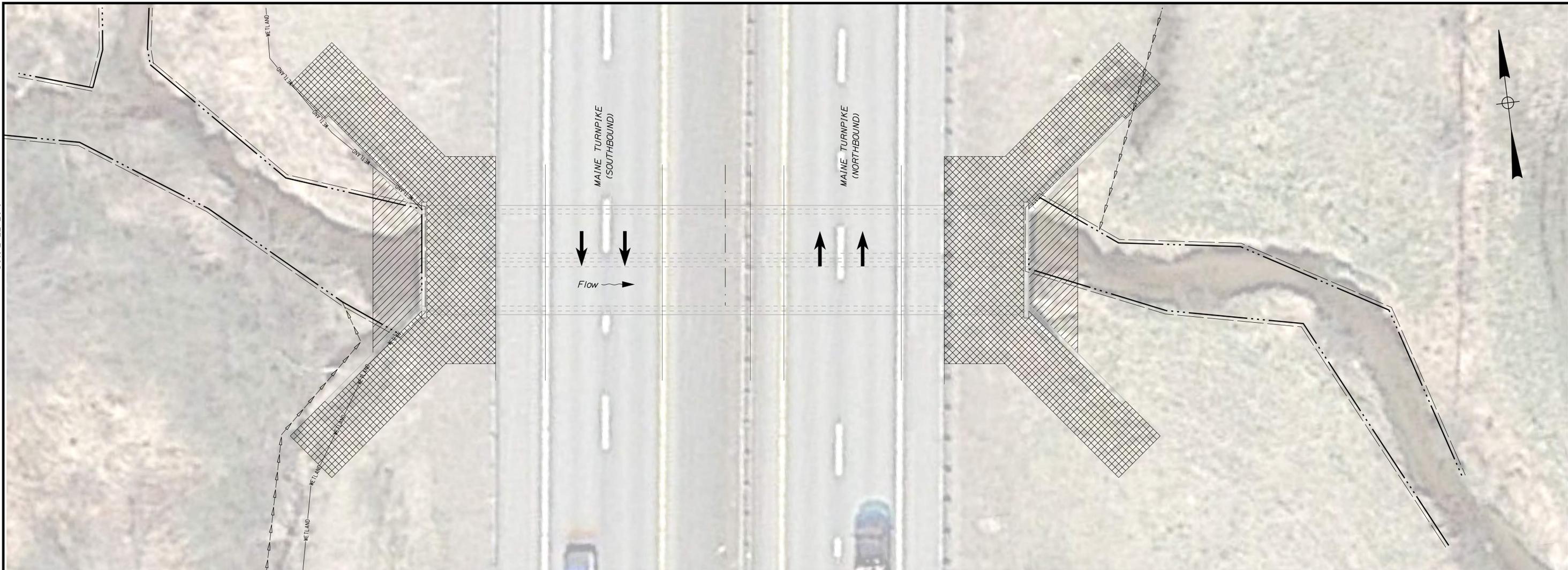
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 COLE BROOK CULVERT (MILE 65.25)  
 M.O.T. SIGN SUMMARY

SHEET NUMBER: CB-01  
 CONTRACT: 2019.11  
 91 OF 105

Date: 2/22/2019



LIMIT OF DISTURBANCE PLAN - COLE BROOK CULVERT

LEGEND:

-  COFFERDAM LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

AREAS:

COFFERDAM LIMIT OF DISTURBANCE:

COLD BROOK CULVERT = 0.013 ACRES

CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:

COLD BROOK CULVERT = 0.064 ACRES

NOTES:

1. EROSION AND SEDIMENT 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 INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Filename: ... \MSTA\XXX\_LODPlan\_65.25.dgn

Scale:			
1" = 10'			
No.	Revision	By	Date

Designed by:					
<b>TY-LIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	DSM	1/2019	Checked	DSM	1/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

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 FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 COLE BROOK CULVERT (MILE 65.25)  
 LIMIT OF DISTURBANCE

SHEET NUMBER: CB-02  
 CONTRACT: 2019.11  
 92 OF 105

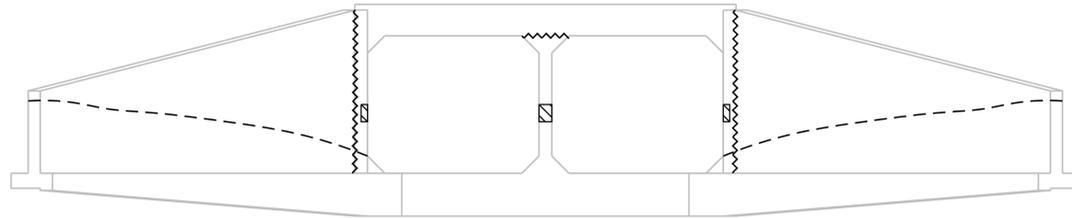
**LEGEND:**

-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIRS
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND

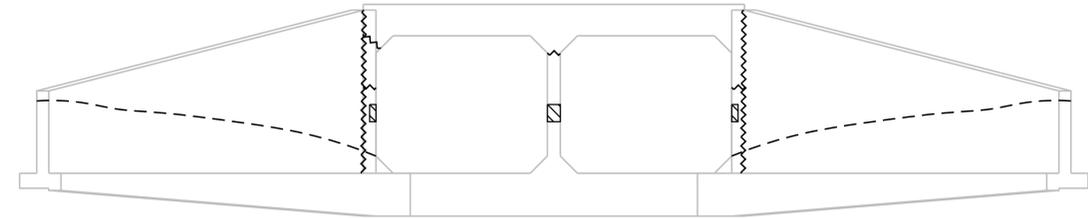
**NOTE:**

1. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES"

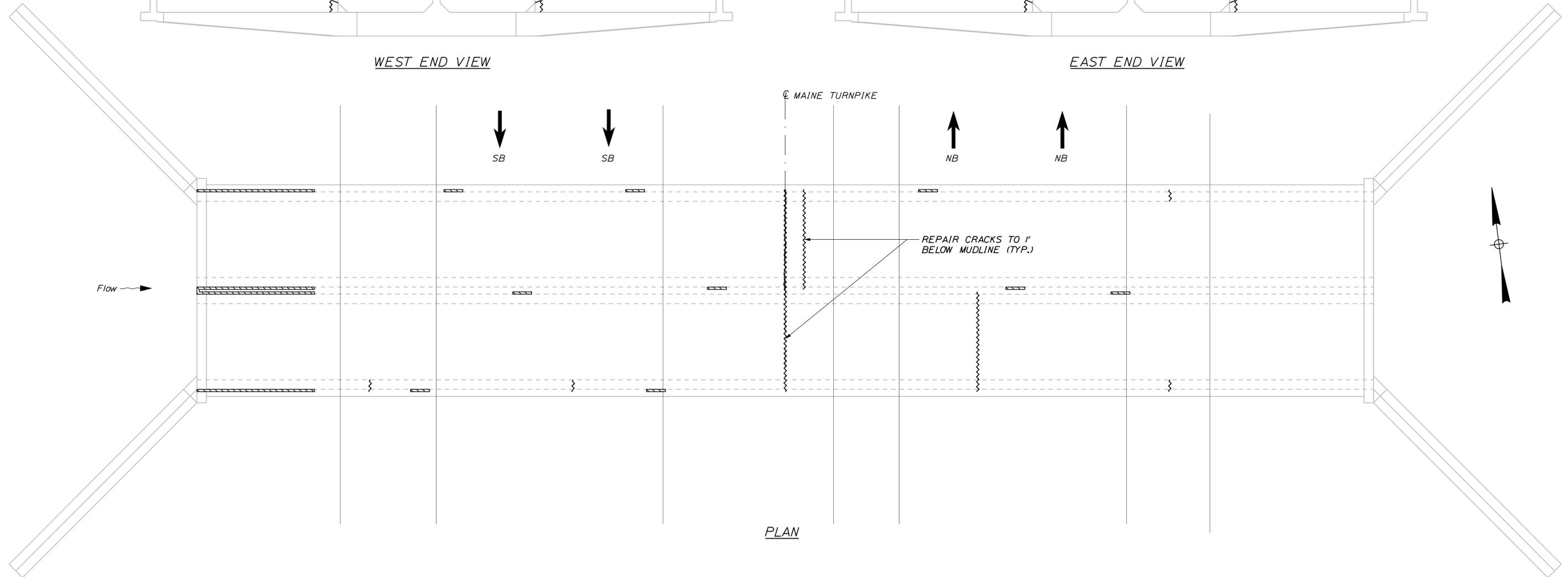
COLE BROOK CULVERT (MILE 65.2)				
ESTIMATED QUANTITY OF REPAIRS				
CRACK REPAIRS	HEADWALLS	WINGWALLS	CULVERT BARRELS	TOTAL
	10 L.F.	43 L.F.	222 L.F.	275 L.F.
CONCRETE REPAIRS	0 S.F.	0 S.F.	100 S.F.	100 S.F.



WEST END VIEW



EAST END VIEW



PLAN

Date: 2/22/2019

Filename: ...XXX\_MM\_65.25\_Existing\_Structures.dgn

Scale:			
No.	Revision	By	Date

Designed by:

**TY-LIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	BLT	12/2018	Checked	DSM	12/2018
Drawn	BLT	12/2018	In Charge of	DSM	1/2019

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 Building A, Suite One  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

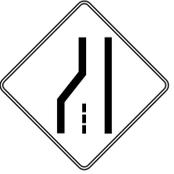
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 COLE BROOK CULVERT (MILE 65.25)  
 CULVERT REPAIRS

SHEET NUMBER: CB-03  
 CONTRACT: 2019.11  
 93 OF 105

Date: 2/22/2019

Filename: ...XXX\_MOT\_Sign\_Sum\_07\_Foster\_Brook.dgn

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-1	48"	48"		8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	48"	48"		7C 7C	6"		2	ORANGE	BLACK		16.00 (32)	
G20-2	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		8.00 (32)	
G20-5aP	36"	24"					4	ORANGE	BLACK		6.00 (24)	
R2-1 (50)	48"	60"					4	WHITE	BLACK		20.00 (80)	
R2-6aP	36"	24"					4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
W3-4	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W8-1	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W16-4P	36"	30"					4	ORANGE	BLACK		7.50 (30)	
W20-1 (1 MILE) (AHEAD)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W20-5 (RIGHT) (LEFT)	48" 48"	48" 48"					4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5a (RIGHT) (LEFT)	48" 48"	48" 48"					2 2	ORANGE	BLACK		16.00 (32) 16.00 (32)	
W21-5b (RIGHT) (LEFT)	48" 48"	48" 48"					2 2	ORANGE	BLACK		16.00 (32) 16.00 (32)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	TWA	1/2019	Checked	JJB	1/2019
Drawn	TWA	1/2019	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753



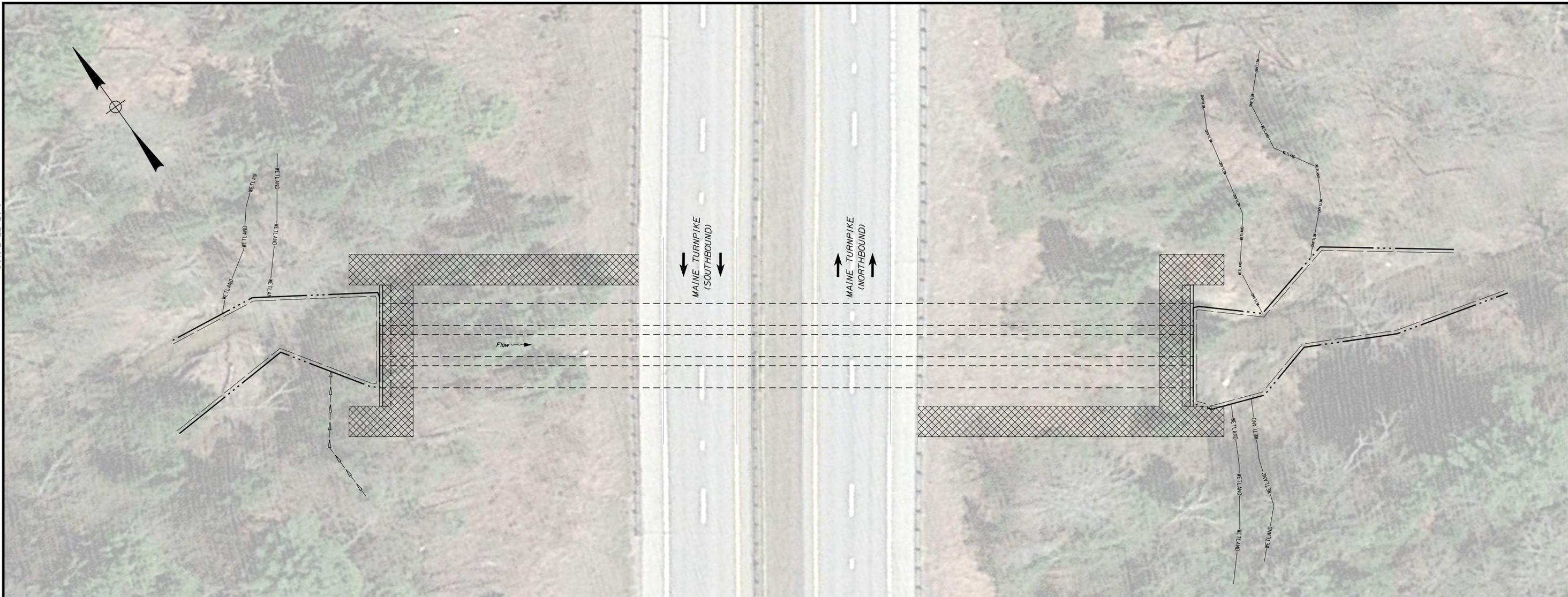
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 FOSTER BROOK CULVERT (MILE 72.9)  
 M.O.T. SIGN SUMMARY

SHEET NUMBER: FB-01  
 CONTRACT: 2019.11  
 94 OF 105

Date: 2/22/2019



LIMIT OF DISTURBANCE PLAN - FOSTER BROOK CULVERT

**LEGEND:**

-  CONTRACT LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

**AREAS:**

CONTRACT LIMIT OF DISTURBANCE:

FOSTER BROOK CULVERT = 0.00 ACRES

CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE:

FOSTER BROOK CULVERT = 0.07 ACRES

**NOTES:**

1. EROSION AND SEDIMENT 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 INCREASING THE LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

Filename: ... \MSTAXXX\_LODPlan\_72.9.dgn

Scale:			
1/16" = 1'-0"			
No.	Revision	By	Date

Designed by:					
<b>TY-LIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	DSM	1/2019	Checked	DSM	1/2019
Drawn	JJL	1/2019	In Charge of	DSM	1/2019

T.Y. Lin International  
 12 Northbrook Drive  
 Building A, Suite One  
 Falmouth, Maine 04105  
 TEL: (207) 781-4721  
 FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

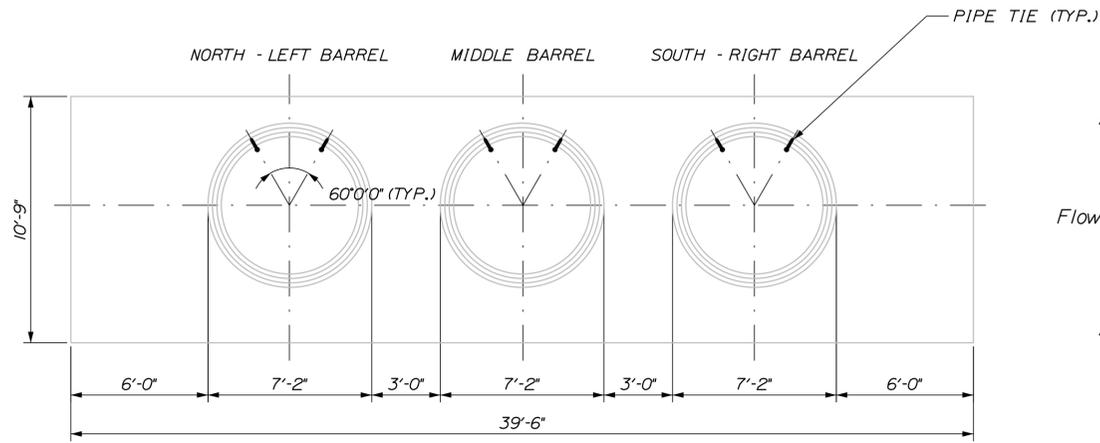
MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 FOSTER BROOK CULVERT (MILE 72.9)  
 LIMIT OF DISTURBANCE

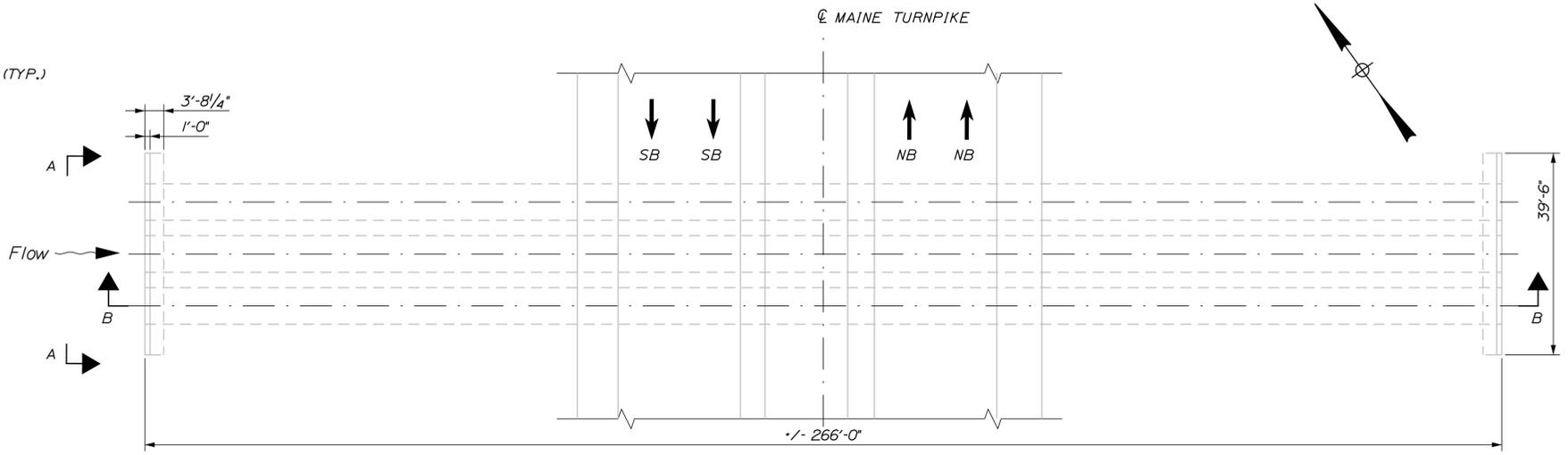
SHEET NUMBER: FB-02  
 CONTRACT: 2019.11  
 95 OF 105

**NOTES:**

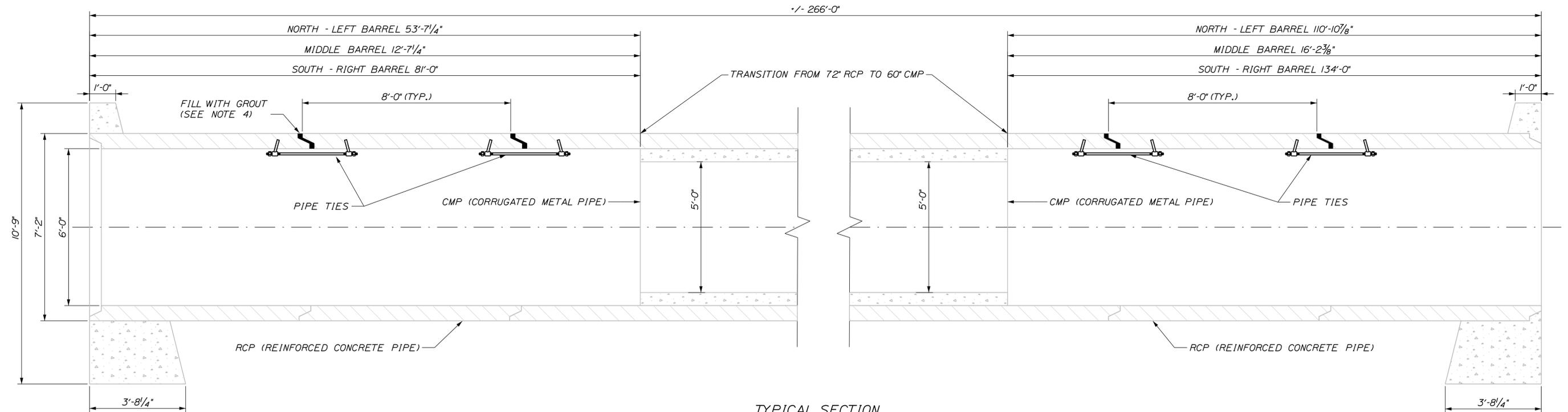
1. PIPE TIES TO BE INSTALLED AT FIRST THREE JOINT LOCATIONS AT BOTH INLET AND OUTLET OF CULVERT BARRELS UNLESS JOINT IS COVERED BY SLIP-LINED CMP.
2. EACH JOINT TO BE STABILIZED BY 2 PIPE TIES ON THE UPPER PORTION OF THE JOINT AS SHOWN.
3. PIPE TIES TO BE PAID FOR UNDER ITEM 603.55, "CONCRETE PIPE TIES".
4. OPEN JOINT TO BE CLEANED AND FILLED WITH GROUT ABOVE AFTER WATER LEVEL INSTALLATION OF JOINT RESTRAINTS. APPLICATION OF GROUT SHALL BE INCIDENTAL TO ITEM 603.55.



**END ELEVATION**  
SCALE: 1/4" = 1'-0"  
(VIEW A-A)



**CULVERT PLAN VIEW**  
SCALE: 1/16" = 1'-0"



**TYPICAL SECTION**  
SCALE: 1/2" = 1'-0"

Date: 2/22/2019

Filename: ...XXX\_MM\_72.9\_Existing\_Structures.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: <b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	JJL	12/2018	In Charge of	DSM	12/2018
	JJL	12/2018		DSM	1/2019

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

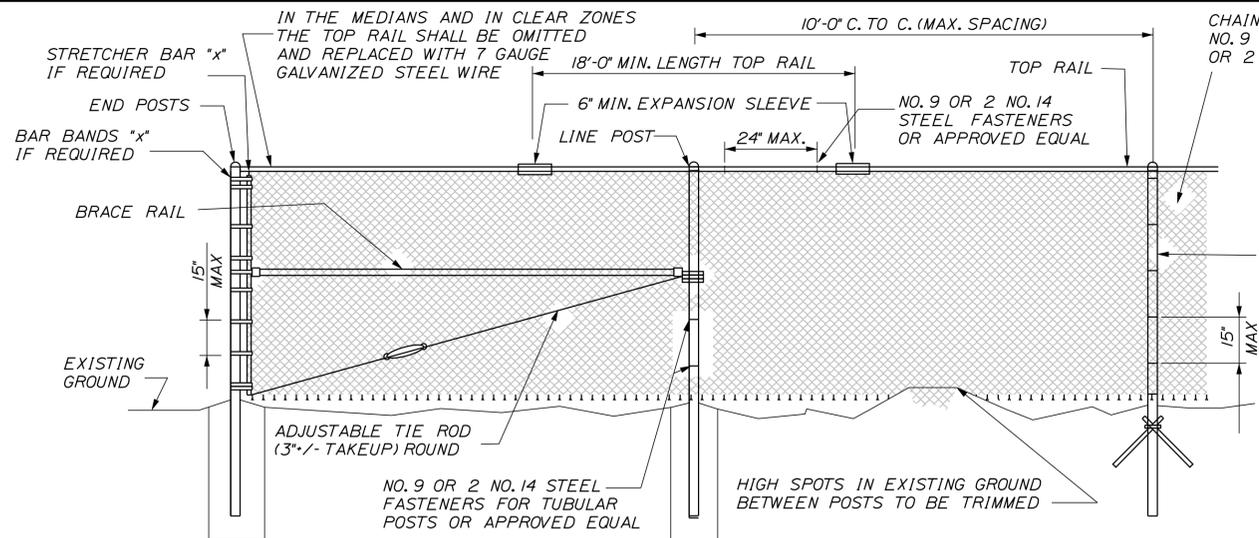
NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
FOSTER BROOK (MILE 72.9)  
CULVERT REPAIRS

CONTRACT: 2019.11

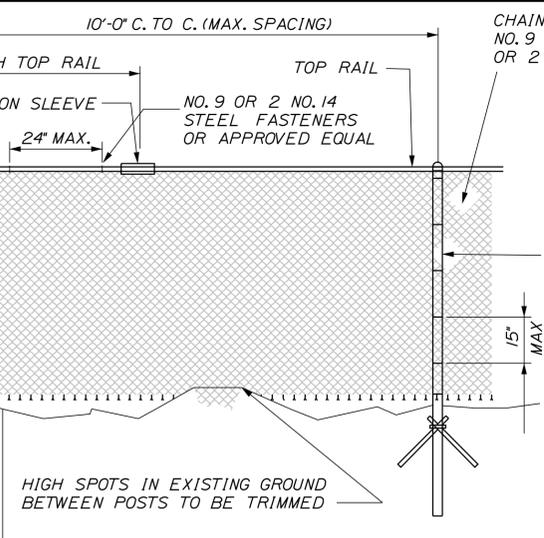
SHEET NUMBER: FB-03

96 OF 105

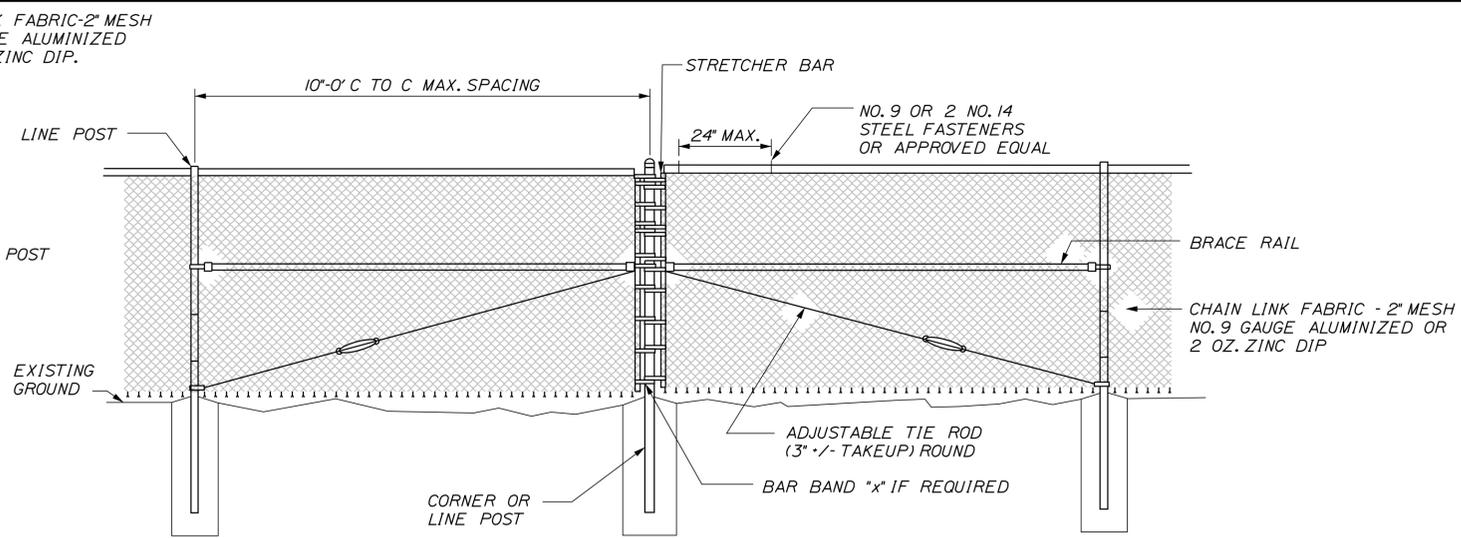
Date: 2/22/2019



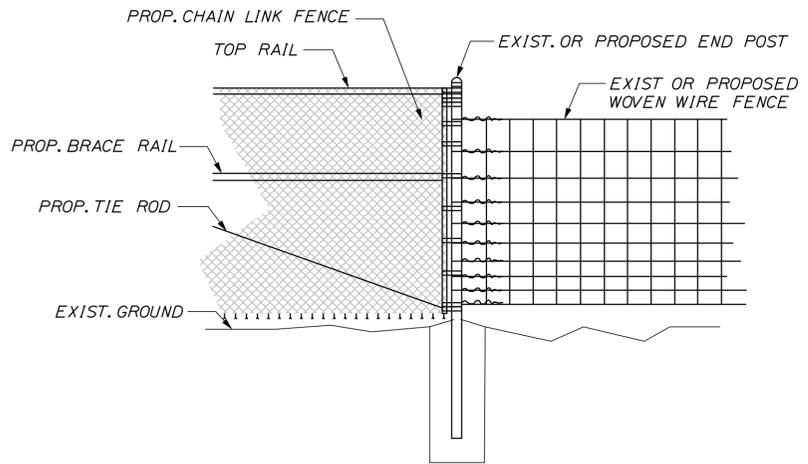
TYPICAL TYPE I END PANEL  
N.T.S.



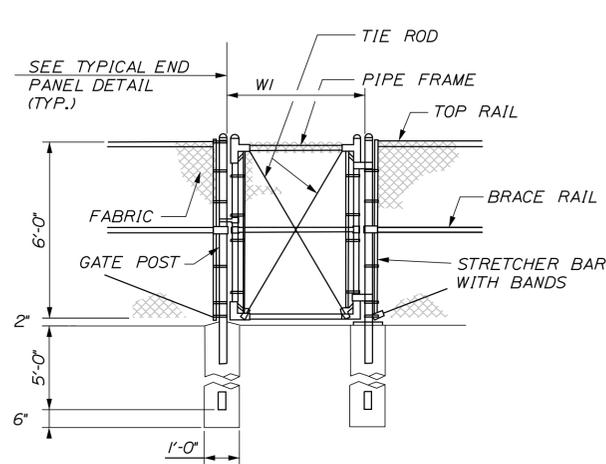
TYPICAL INTERMEDIATE PANEL  
N.T.S.



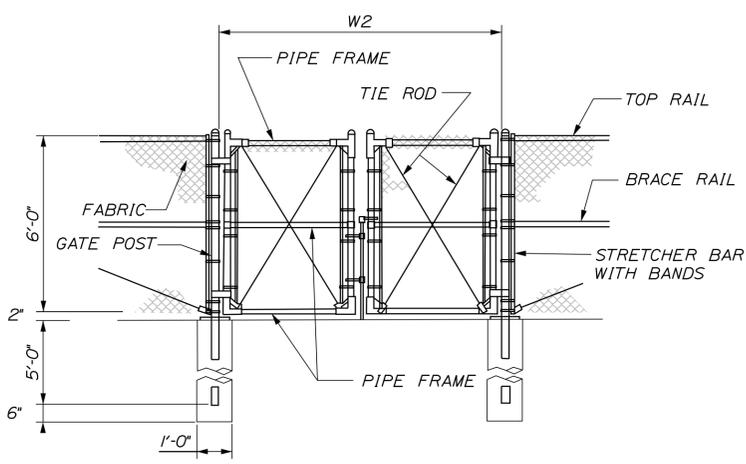
TYPICAL TYPE II BRACE PANEL  
N.T.S.



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



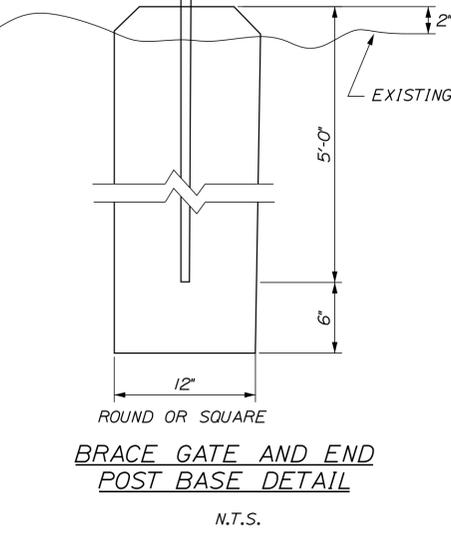
SINGLE GATE



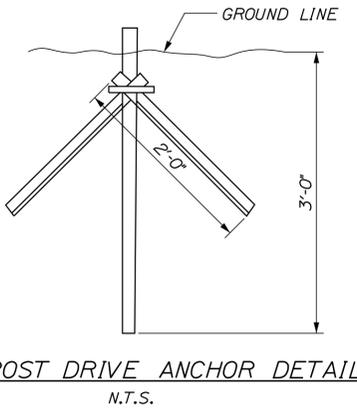
DOUBLE GATE

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. PAYMENT SHALL BE MADE UNDER ITEM 607.34, "BRACING ASSEMBLY CHAIN LINK FENCE"
- 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.
- PVC PRIVACY SLATS SHALL BE INSTALLED AS NOTED ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF SPECIAL PROVISION SECTION 607 FENCES OF THE PROJECT SPECIFICATIONS.



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



LINE POST DRIVE ANCHOR DETAIL  
N.T.S.

BENDING MOMENTS BASED ON GRADE 1 (SCHEDULE 40 STEEL)

CHAIN LINK FENCE	SHAPE	NOMINAL SIZE (INCHES)	GATE WIDTH		GATE POST O.D.
			W1	W2	
END & CORNER POSTS	Ø	2 I.D.	TO 6'	TO 12'	3"
LINE POSTS	Ø	1-1/2 I.D.	6' TO 12'	12' TO 24'	4"
TOP & BRACE RAILS	Ø	1-1/4 I.D.	12' TO 18'	24' TO 36'	6"

\* 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.

Filename: ... \MSTA\XXX\_Chain\_Link\_Fence.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed TSK	1/2019	Checked TSK	1/2019
Drawn MJD	1/2019	In Charge of DSM	1/2019

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS

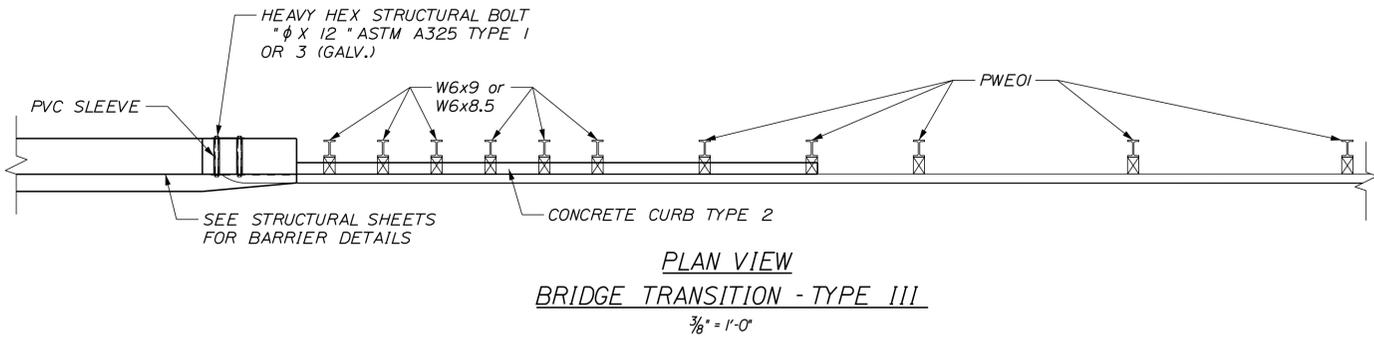
CHAIN LINK FENCE DETAILS

SHEET NUMBER: DET-01

CONTRACT: 2019.11

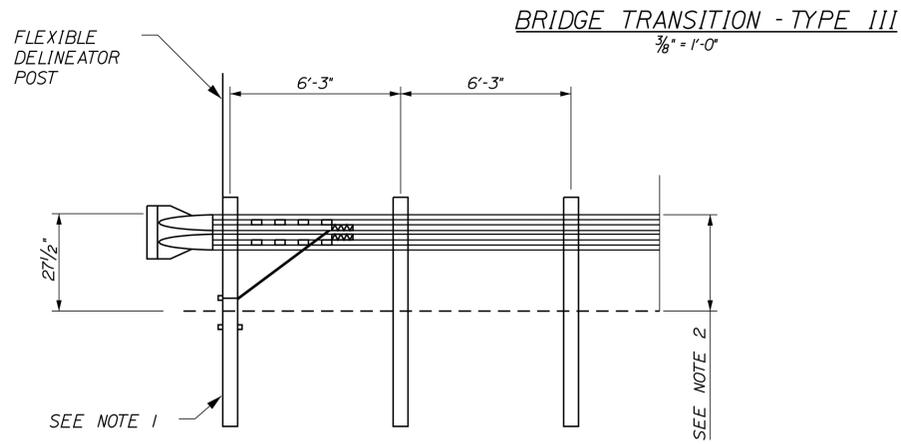
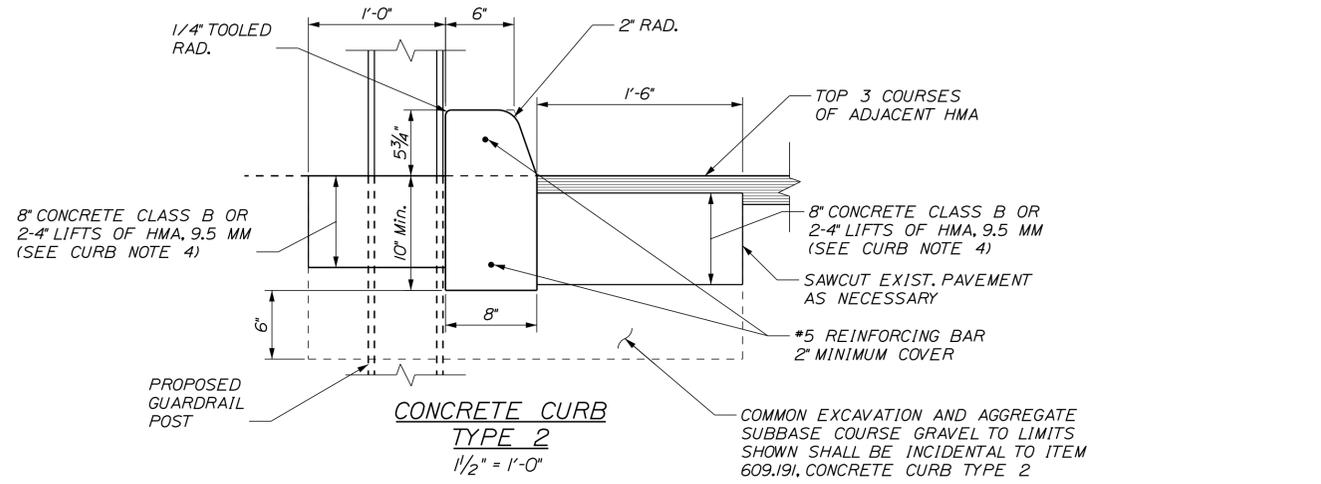
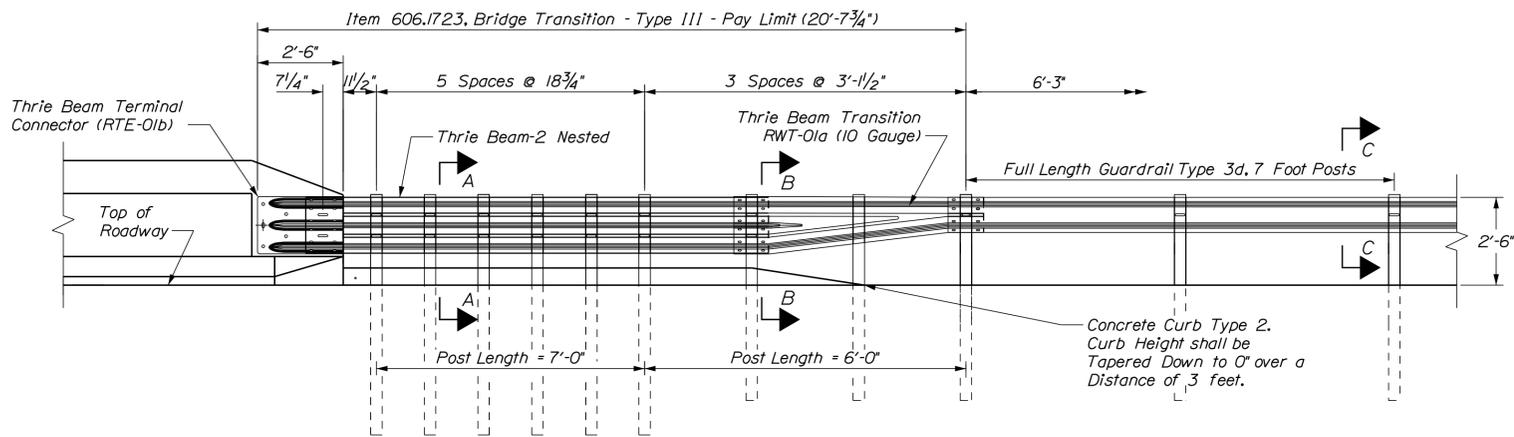
97 OF 105

Date: 2/22/2019

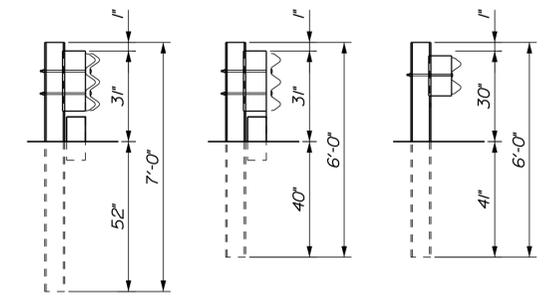


**GENERAL NOTES:**

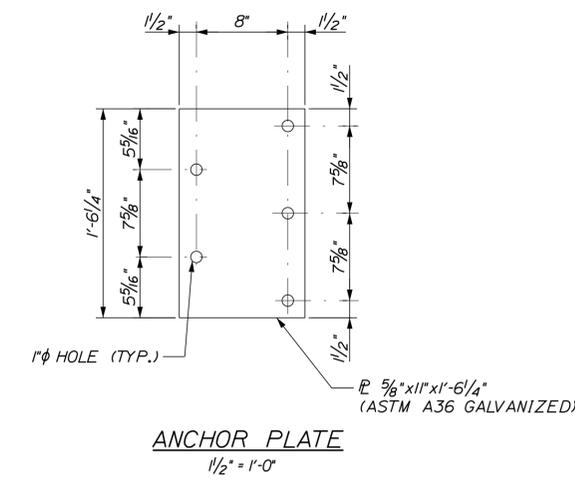
1. SOIL ANCHOR TUBES INSTALLED AS PART OF CAT, FLEAT OR TRAILING TERMINAL ENDS SHALL NOT PROTRUDE FROM THE GROUND MORE THAN 31"±. ADDITIONAL SITE GRADING MAY BE REQUIRED TO ADJUST SOIL TUBE REVEAL AND IF REQUIRED SHALL NOT DIRECT STORMWATER SURFACE DRAINAGE TOWARDS THE SHOULDER OR TRAVEL WAY. ADDITIONAL SITE GRADING SHALL BE INCIDENTAL TO THE END TERMINAL INSTALLATION.
2. TRANSITION RAIL HEIGHT ON TERMINAL END-ANCHORED ENDS FROM 27"± AT THE END OF THE RAIL TO 30" HEIGHT OVER A 25' LINEAR FOOT LENGTH.
3. 1" HOLE IN CONCRETE SHALL BE FORMED BY A METHOD APPROVED BY THE ENGINEER.



**TERMINAL END - ANCHORED END - 3" W-BEAM GUARDRAIL (ITEM 606.1351)**  
NTS



SECTION A-A SECTION B-B SECTION C-C



**ANCHOR PLATE**  
1 1/2" = 1'-0"

Filename: ... \MSTA\XXX\_Guardrail\_Details.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
Designed	By	Date	Checked	By	Date
Drawn	MJD	1/2019	In Charge of	DSM	1/2019

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

**NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS**

**GUARDRAIL DETAILS**

SHEET NUMBER: DET-02  
CONTRACT: 2019.11  
98 OF 105

Date: 2/22/2019

Filename: ... \MSTA\XXX\_Drainage\_Details.dgn

**DIMENSIONS FOR SLOPE OF 2:1**

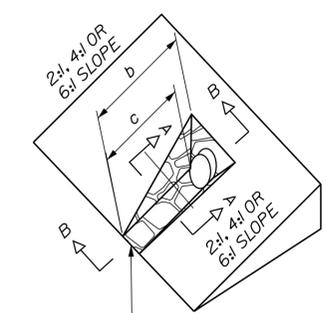
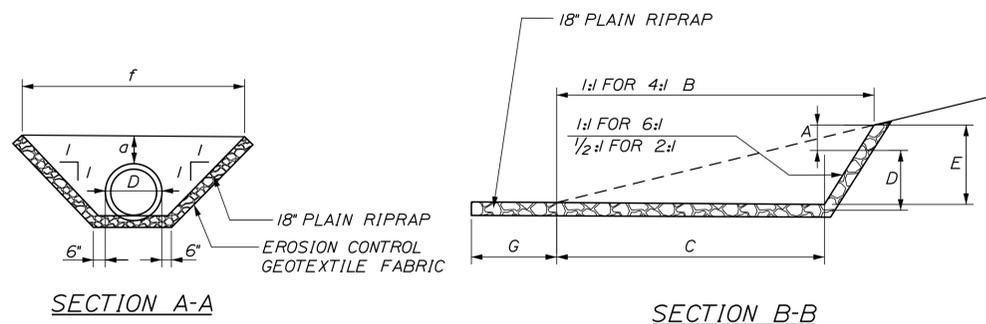
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33

**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
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

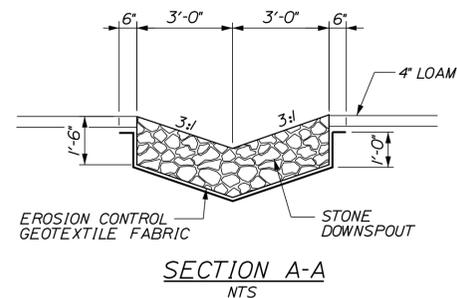
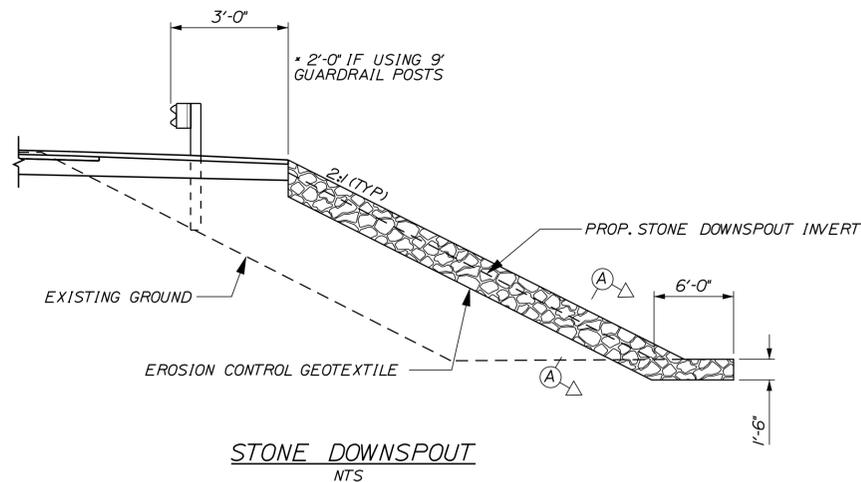
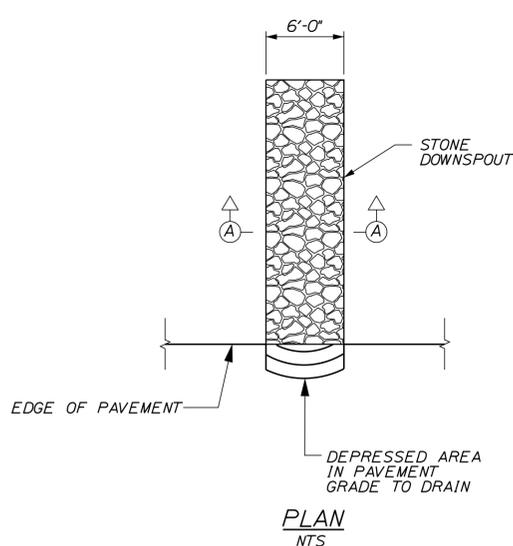
**DIMENSIONS FOR SLOPE OF 4:1**

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
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



**ROADWAY CULVERT END SLOPE TREATMENT**  
 NTS

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



1 LF OF DOWNSPOUT = 0.33 CY OF PLAIN RIPRAP  
 1 LF OF DOWNSPOUT = 1.04 SY OF EROSION CONTROL GEOTEXTILE FABRIC

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

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

By	Date	By	Date
Designed TSK	1/2019	Checked TSK	1/2019
Drawn MJD	1/2019	In Charge of DSM	1/2019

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**MAINE TURNPIKE**

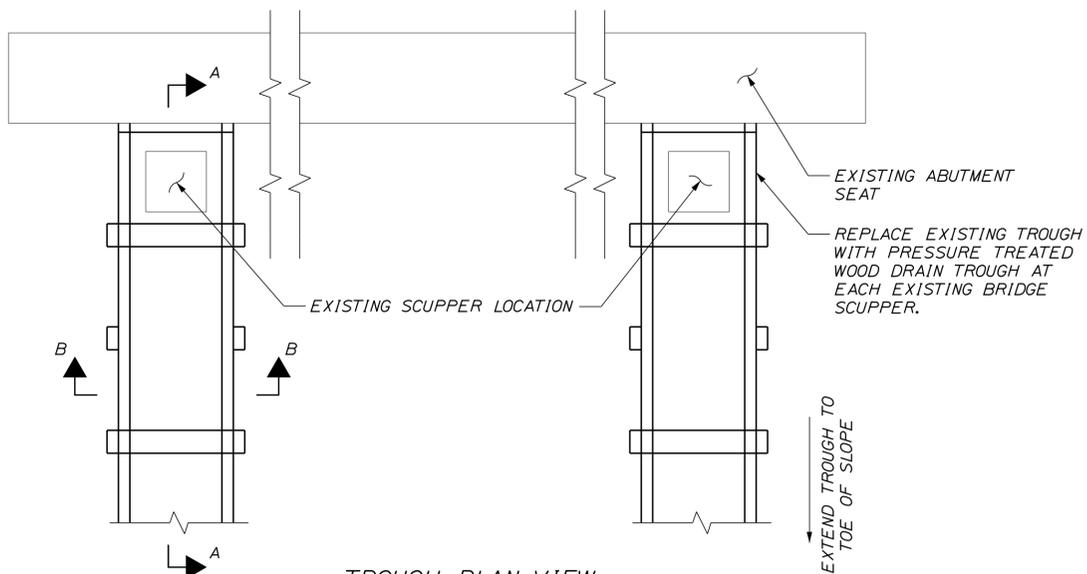
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

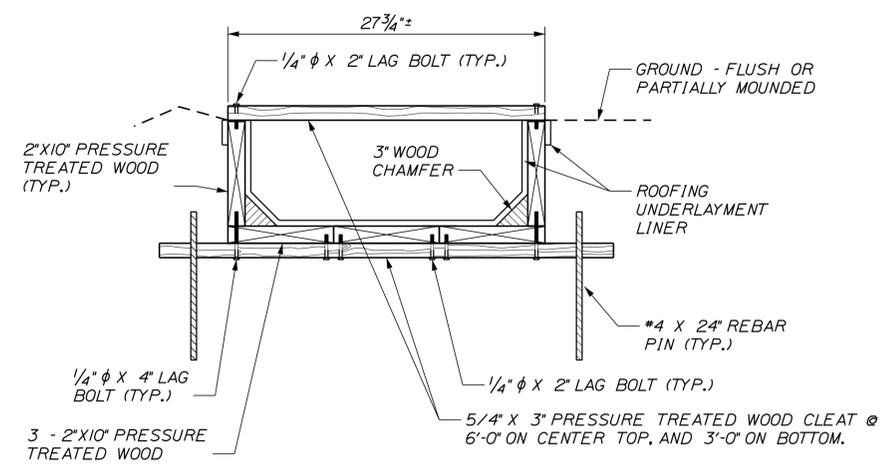
NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 DRAINAGE DETAILS

SHEET NUMBER: DET-03  
 CONTRACT: 2019.11  
 99 OF 105

Date: 2/22/2019



**TROUGH PLAN VIEW**  
NOT TO SCALE

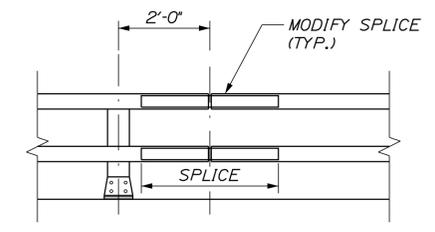


**SECTION B-B**  
SCALE: 1/2" = 1'-0"

LOCATION OF DRAIN TROUGH WORK TABLE		
LOCATION	ABUTMENT 1	ABUTMENT 2
ROUTE 26 (MILE 64.3)	REMOVE EXISTING DRAIN TROUGH (NOTE 6)	REMOVE EXISTING TROUGHS AND REPLACE WITH WOOD BRIDGE DRAIN TROUGHS
WEBSTER ROAD (MILE 82.7)	RESET & REPAIR PRECAST, SEAL CRACKS (NOTE 7)	- NONE -
PLAINS ROAD (MILE 95.6)	RESET & REPAIR PRECAST, SEAL CRACKS (NOTE 7)	RESET AND REPAIR PRECAST, SEAL CRACKS, REPAIR EROSION (NOTE XXX)

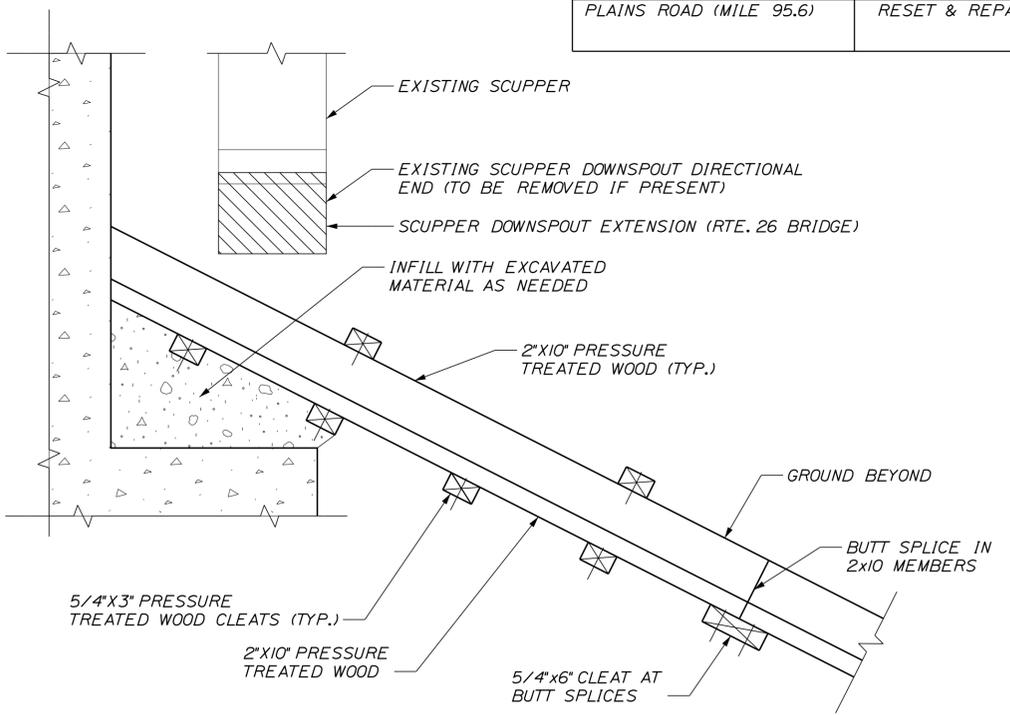
**TROUGH NOTES:**

- WOOD DRAIN TROUGH AND ROOFING UNDERLAYMENT LINER SHALL BE PAID UNDER ITEM 603.91, "PRESSURE TREATED WOOD DRAIN TROUGH".
- REMOVAL SHALL BE PAID UNDER ITEM 202.191, "REMOVING EXISTING DRAIN TROUGHS".
- MECHANICALLY ATTACH WOOD DOWNSPOUT TO ABUTMENT WITH TWO 3/8" φ X 6" BOLTS INTO DROP IN ANCHORS.
- BUTT SPLICE 2"x10" PRESSURE TREATED WOOD MEMBERS AT CLEATS (PROVIDE 5/4"x6" CLEATS AT BUTT SPLICES); OR USE 2"x10"x16" PRESSURE TREATED WOOD SPLICE BOARDS. SPIKE WITH 10-P GALVANIZED NAILS OR SCREWS.
- INSTALL ROOFING UNDERLAYMENT (ICE AND WATER SHIELD) LINER AND SECURE WITH GALVANIZED ROOFING NAILS PRIOR TO INSTALLING TOP CLEATS.
- AT LOCATIONS SPECIFIED, NO REPLACEMENT TROUGH SHALL BE INSTALLED. REGRADE EXISTING SLOPE AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE INCIDENTAL TO ITEM 202.191, REMOVING EXISTING DRAIN TROUGHS.
- AT LOCATIONS SPECIFIED, THE EXISTING PRECAST CONCRETE DRAIN TROUGH SHALL REMAIN. RESEAL JOINTS AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL DISTURBED SLOPES BENEATH THE BRIDGE THAT ARE UNLIKELY TO GROW SIGNIFICANT VEGETATION DUE TO SHADE SHALL BE COVERED WITH BARK MULCH AS DIRECTED BY THE RESIDENT.

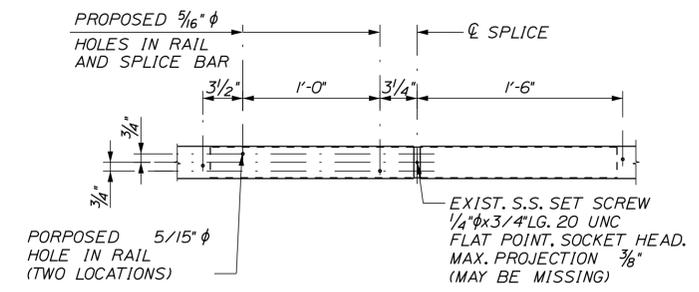


**SPLICE MODIFICATION RAILING - ELEVATION**

SCALE: 1/2" = 1'-0"  
(TWO BAR RAILING SHOWN, THREE BAR RAILING SIMILAR)



**SECTION A-A**  
NOT TO SCALE



**SPLICE MODIFICATION DETAIL**

SCALE: 1/2" = 1'-0"  
(ELEVATION VIEW FROM BACK SIDE OF RAIL)

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	9/2018	Checked	NLB	9/2018
Drawn	SAM	9/2018	In Charge of	DSM	1/2019

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS & BENNETT ROAD EMERGENCY VEHICLE RAMPS

MISCELLANEOUS DETAILS

SHEET 1 OF 3

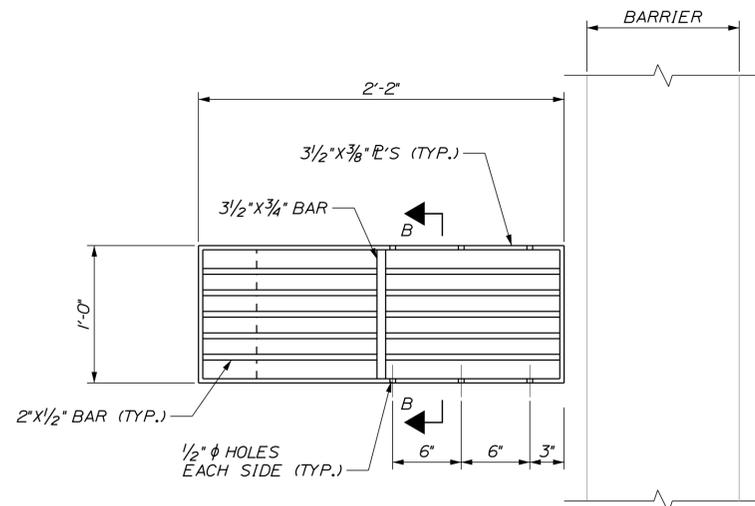
SHEET NUMBER: DET-04

CONTRACT: 2019.11

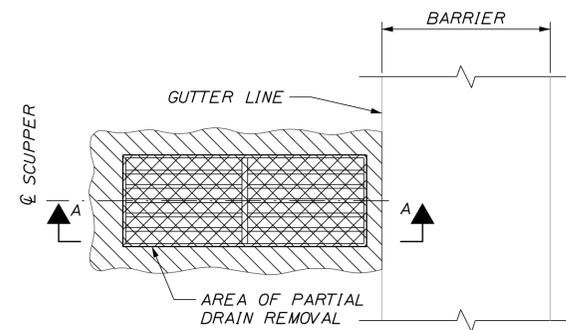
100 OF 105

Filename: ... \MSTA\XXX\_Misc\_Details\_1.dgn

Date: 2/22/2019

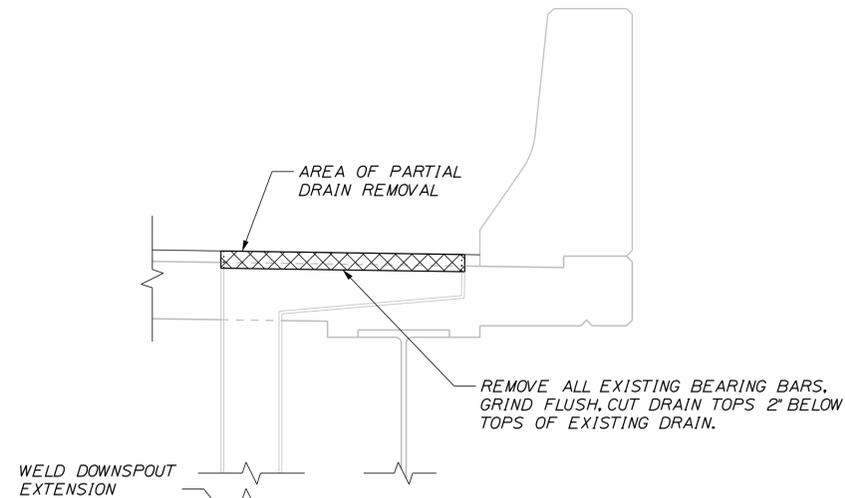


**PROPOSED PLAN**  
NOT TO SCALE



**EXISTING PLAN**  
NOT TO SCALE

**BRIDGE DRAIN GRATE MODIFICATION - ROUTE 26**



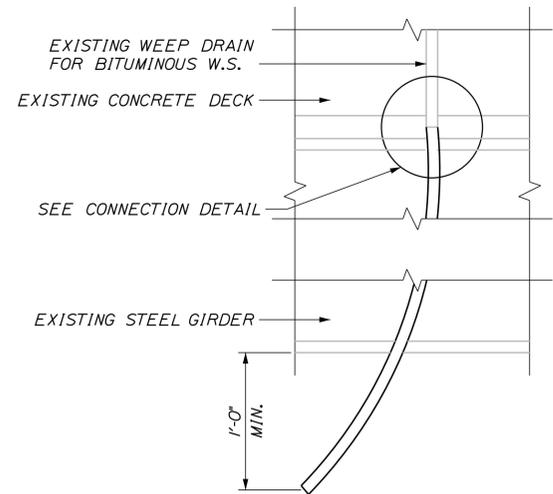
**SECTION A-A**  
NOT TO SCALE

**DOWNSPOUT EXTENSION NOTES:**

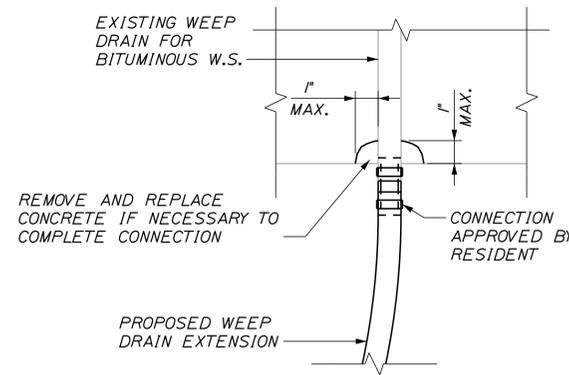
1. PRIOR TO STARTING THE WORK THE CONTRACTOR SHALL FIELD MEASURE EACH DRAIN. THIS INFORMATION SHALL BE USED FOR THE FABRICATION OF THE DOWNSPOUT EXTENSIONS.
2. DOWNSPOUT EXTENSIONS SHALL CONFORM TO ASTM A 36 AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
3. PREPARE NEW AND EXISTING DOWNSPOUT FOR FIELD WELD. FIELD WELD THE EXTERIOR PERIMETER JOINTS BETWEEN NEW AND EXISTING DOWNSPOUTS. THE INTERIOR AND EXTERIOR OF THE NEW DOWNSPOUT WELDS SHALL BE COATED WITH AN APPROVED COLD GALVANIZING COMPOUND AFTER WELDING.
4. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THE BRIDGE DRAIN MODIFICATION WILL BE UNDER ITEM 502.701, "BRIDGE DRAIN GRATE MODIFICATION."

**BRIDGE DRAIN GRATE MODIFICATION NOTES:**

1. PRIOR TO STARTING THE WORK THE CONTRACTOR SHALL FIELD MEASURE EACH DRAIN. THIS INFORMATION SHALL BE USED FOR THE FABRICATION OF THE DRAIN GRATE EXTENSIONS.
2. CONTRACTOR SHALL CLEANLY CUT AND REMOVE THE TOP OF EXISTING DRAINS 2" BELOW EXISTING TOP OF DRAIN. THE DECK CONCRETE AROUND THE FULL PERIMETER OF THE DRAIN SHALL BE MECHANICALLY REMOVED TO A MINIMUM DEPTH OF 1 1/2" BY A MINIMUM WIDTH OF 3".
3. ALL PLATES SHALL CONFORM TO ASTM A 36. DRAIN GRATE EXTENSIONS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
4. ALIGNMENT TABS ARE OPTIONAL. AFFIX AND GALVANIZE WITH DRAIN GRATE EXTENSIONS, IF USED.
5. PREPARE EXISTING DRAIN BODY AND NEW DRAIN TOP GRATE EXTENSION FOR FIELD WELD. FIELD WELD THE EXTERIOR PERIMETER JOINT BETWEEN EXISTING DRAIN BODY AND NEW TOP OF DRAIN AFTER WELDING. THE INTERIOR AND EXTERIOR OF THE NEW TOP OF DRAIN SHALL BE COATED WITH AN APPROVED COLD GALVANIZING COMPOUND.
6. AREAS OF CONCRETE REMOVAL SHALL BE PATCHED USING A SHALLOW CONCRETE PATCHING MATERIAL SELECTED FROM THE MTA APPROVED PRODUCTS LIST. CONCRETE PATCH SHALL BE PLACED, FINISHED AND CURED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THE BRIDGE DRAIN MODIFICATION WILL BE UNDER ITEM 502.701, "BRIDGE DRAIN GRATE MODIFICATION."



**WEEP DRAIN EXTENSION**  
SCALE: 3" = 1'-0"



**WEEP DRAIN CONNECTION DETAIL**  
NOT TO SCALE

NOTE: DECK REINFORCEMENT NOT SHOWN FOR CLARITY

Filename: ... \MSTA\XXX\_Misc\_Details\_2.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
<b>TYLIN INTERNATIONAL</b>					
CONSULTANT PROJECT MANAGER: Daniel S. Myers					
	By	Date		By	Date
Designed	DSM	1/2019	Checked	DSM	1/2019
Drawn	SAM	1/2019	In Charge of	DSM	1/2019

T.Y. Lin International  
12 Northbrook Drive  
Building A, Suite One  
Falmouth, Maine 04105  
TEL: (207) 781-4721  
FAX: (207) 781-4753



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

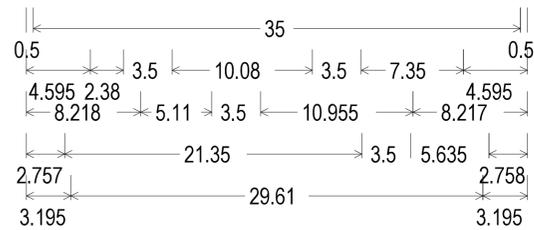
NORTHERN BRIDGE REPAIRS &  
BENNETT ROAD EMERGENCY VEHICLE RAMPS  
MISCELLANEOUS DETAILS  
SHEET 2 OF 3

CONTRACT: 2019.11

SHEET NUMBER: DET-05

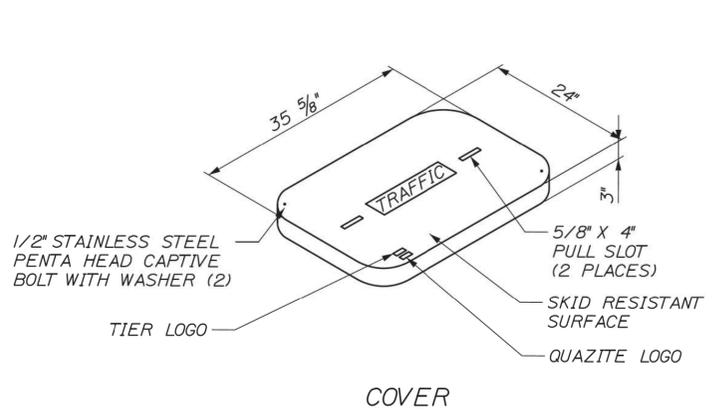
101 OF 105

Date: 2/22/2019

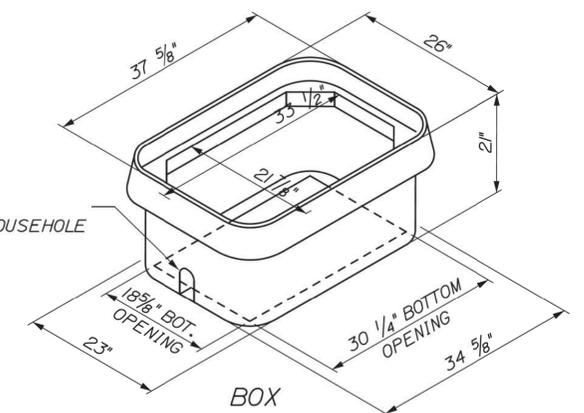


0.625" Inner border Black, 1.500" Radius, 0.375" Outer border, White on Red;  
 [STATE LAW] D 2K;  
 1.500" Radius, 0.625" Border, 0.375" Indent, Black on White;  
 [3 FEET MIN] D 2K; [TO PASS] D 2K;  
 [BICYCLES OR] D 2K;  
 [PEDESTRIANS] D 2K;

NEW SIGN DETAIL - ROUTE 26  
 NTS



COVER



QUAZITE BOX DETAIL  
 NTS

Filename: ... \MSTA\XXX\_Misc\_Details\_3.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Daniel S. Myers

	By	Date		By	Date
Designed	DSM	1/2019	Checked	DSM	1/2019
Drawn	JJB	1/2019	In Charge of	DSM	1/2019

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 12 Northbrook Drive  
 Building A, Suite One  
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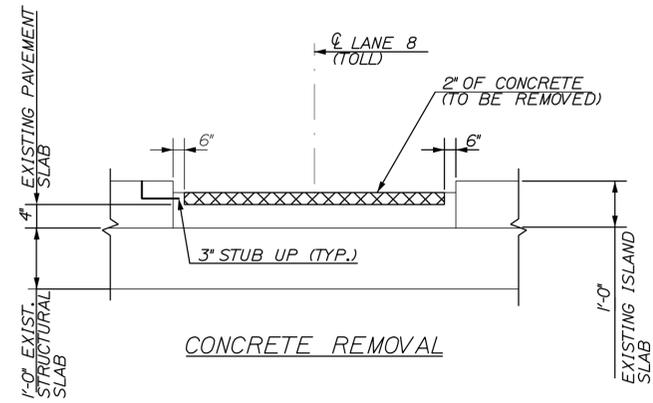
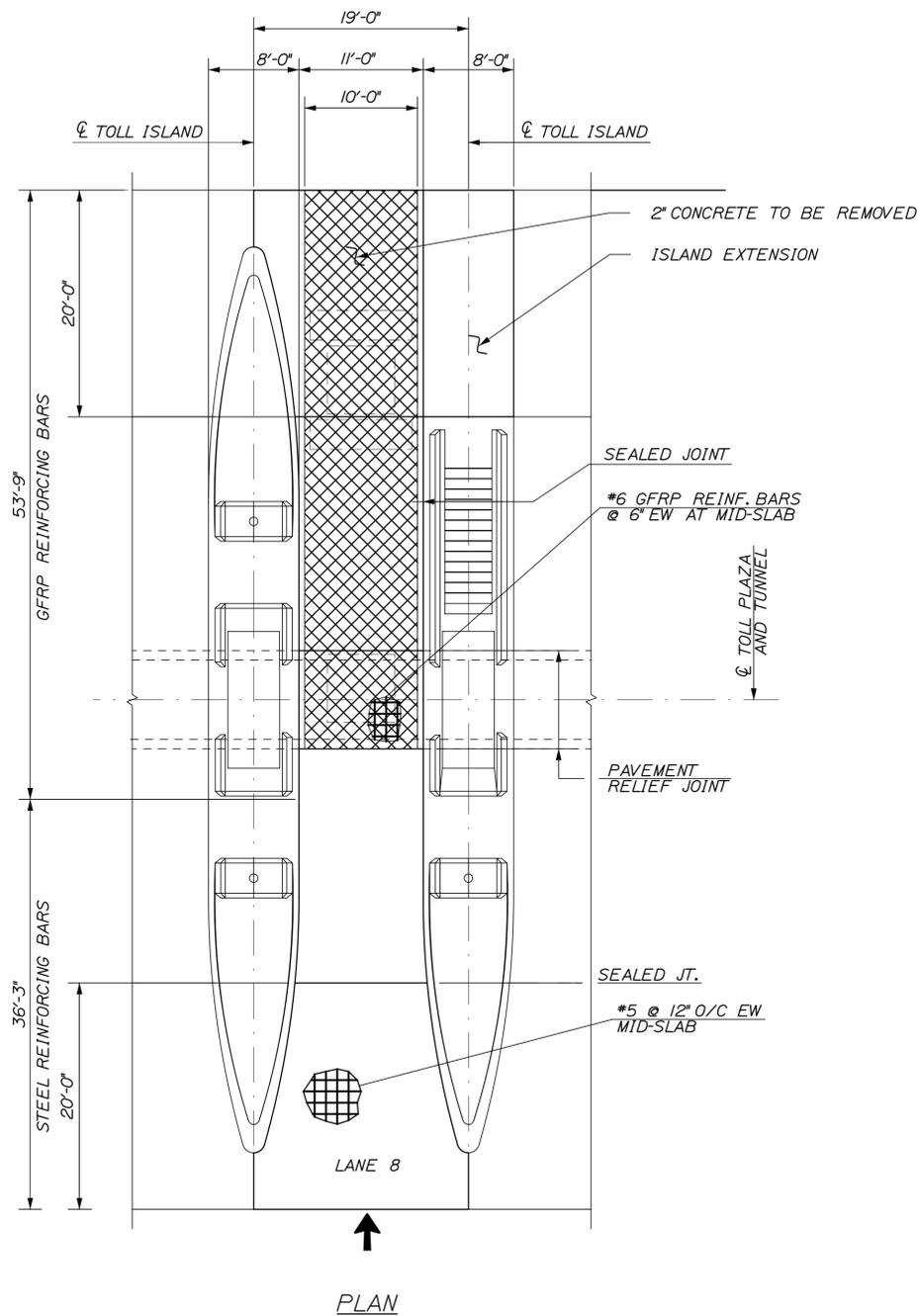
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

NORTHERN BRIDGE REPAIRS &  
 BENNETT ROAD EMERGENCY VEHICLE RAMPS  
 MISCELLANEOUS DETAILS  
 SHEET 3 OF 3

SHEET NUMBER: DET-06  
 CONTRACT: 2019.11  
 102 OF 105

Date: 2/21/2019



GENERAL NOTES:

1. SELF LEVELING ELASTOMERIC SEALANT SHALL BE SIKA FLEX IA OR AN APPROVED EQUAL.
2. A 2" DEEP, LONGITUDINAL SAW CUT SHALL BE MADE PRIOR TO ANY CONCRETE REMOVAL
3. GFRP REINFORCING IS AT A DEPTH OF 3".
4. LOOP LEAD STUB UPS SHALL BE AVOIDED DURING DEMOLITION. ANY DAMAGE TO STUB UPS SHALL BE REPAIRED BY CONTRACTOR.

CONCRETE NOTES:

1. CONCRETE SHALL BE MTA CLASS AAA DECK WITH 5 LBS OF SYNTHETIC FIBER.
2. CONCRETE SHALL BE PLACED TO EXISTING GRADES.
3. CONTRACTOR SHALL USE A STRAIT CEMENT SLURRY AS A BONDING AGENT. THE BONDING AGENT WILL NOT BE ALLOWED TO DRY BEFORE PLACING OF CONCRETE AND SHALL NOT BE PLACE ON THE SLAB TO A DISTANCE GREATER THAN 10 FEET BEFORE CONCRETE IS PLACED.
4. CONTRATOR SHALL SUBMIT THEIR CONCRETE PLACEMENT PROCEDURES FOR REVIEW AND APPROVAL TO THE DESIGNER AT LEAST ONE (1) WEEK PRIOR TO PLACEMENT.

Filename: 001\_NG Demo.dgn

Scale: NTS			
No.	Revision	By	Date

Designed by:					
<b>HNTB</b>					
CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.					
	By	Date		By	Date
Designed	RBM	02/19	Checked	RBM	02/19
Drawn	MHP	02/19	In Charge of	RAL	02/19

HNTB CORPORATION  
 340 County Road, Suite 6-C  
 Westbrook, ME 04092  
 TEL (207) 774-5155  
 FAX (207) 228-0909

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

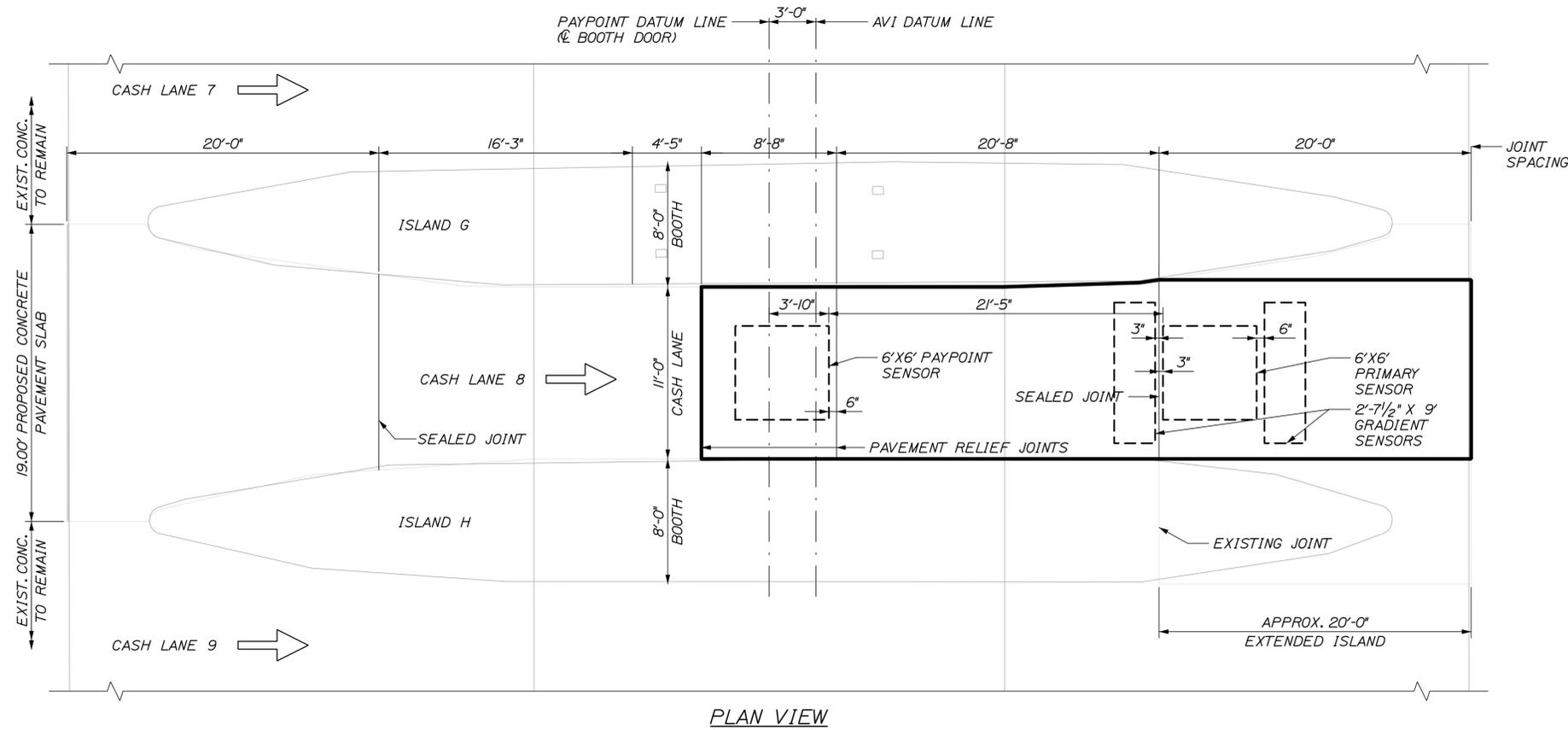
**NEW GLOUCESTER  
CASH LANE 8 REHABILITATION**

DEMO PAVEMENT PLAN

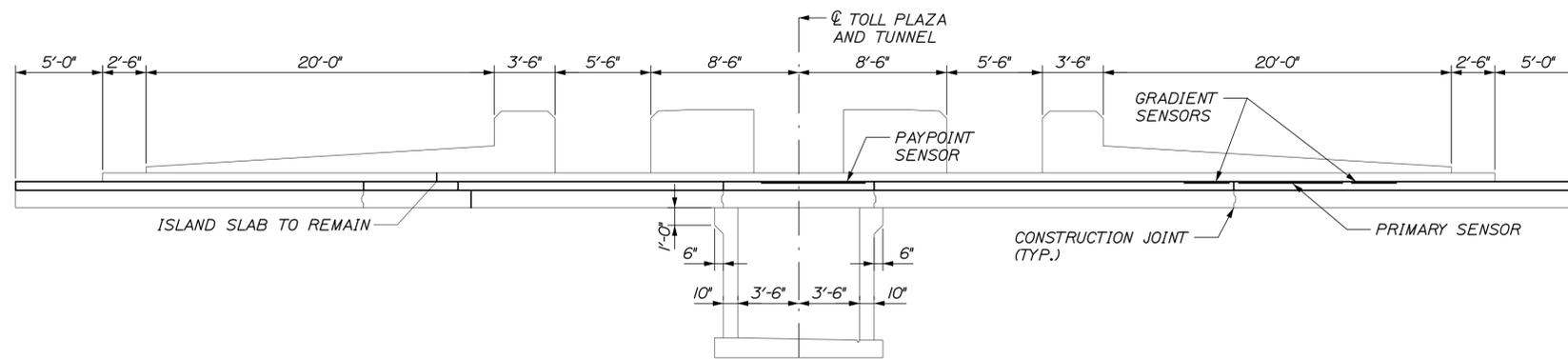
SHEET NUMBER: S-01

CONTRACT: 2019.11 103 OF 105

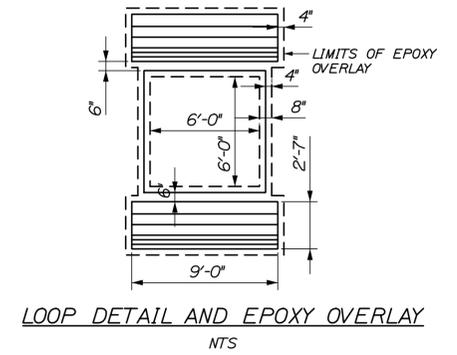
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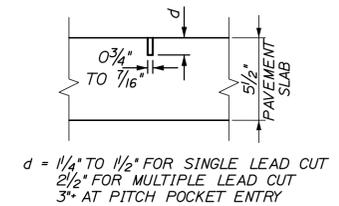
PLAN VIEW



PROFILE VIEW

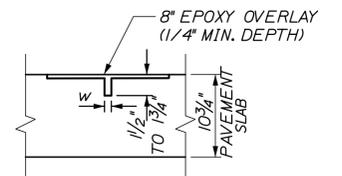


LOOP DETAIL AND EPOXY OVERLAY  
NTS



$d = 1/4"$  TO  $1/2"$  FOR SINGLE LEAD CUT  
 $2/2"$  FOR MULTIPLE LEAD CUT  
 $3"$  AT PITCH POCKET ENTRY

LEAD-IN CUT  
NTS



$w = 1/2"$  FOR GRADIENT ENDS  
 $3/8"$  FOR ALL OTHER CUTS

SENSOR CUT  
NTS

- NOTES:
1. TRANSORE SHALL INJECT DURANT LOOP SEALANT INTO SAW CUT BEFORE INSTALLING SENSORS AND LEADS. TRANSORE SHALL PROVIDE EQUIPMENT, TEMPLATES AND EPOXY. SEE SPECIAL PROVISIONS SECTION 655 FOR MORE INFORMATION.
  2. ALL LAYOUT FOR PRIMARY AND GRADIENT SENSORS SHALL BE VERIFIED BY TRANSORE PRIOR TO CUTTING CONCRETE.
  3.  $1/4"$  DEPRESSION FOR EPOXY OVERLAY SHALL BE COMPLETED AFTER SAW CUTTING CONCRETE FOR LOOPS.
  4. MEASUREMENT FOR ITEM 515.23 EPOXY OVERLAY SHALL BE 11.5 SY PER LANE.
  5. LOOP LAYOUT IS TYPICAL FOR ALL ENTRY LANES.



Designed by:



HNTB CORPORATION  
340 County Road, Suite 6-C  
Westbrook, ME 04092  
TEL (207) 774-5155  
FAX (207) 228-0909



THE GOLD STAR  
MEMORIAL HIGHWAY

NEW GLOUCESTER  
CASH LANE 8 REHABILITATION  
REHAB PAVEMENT SLAB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	RBM	02/19	Checked	RBM	02/19
Drawn	MHP	02/19	In Charge of	RAL	02/19

MTA PROJECT MANAGER: William Yates

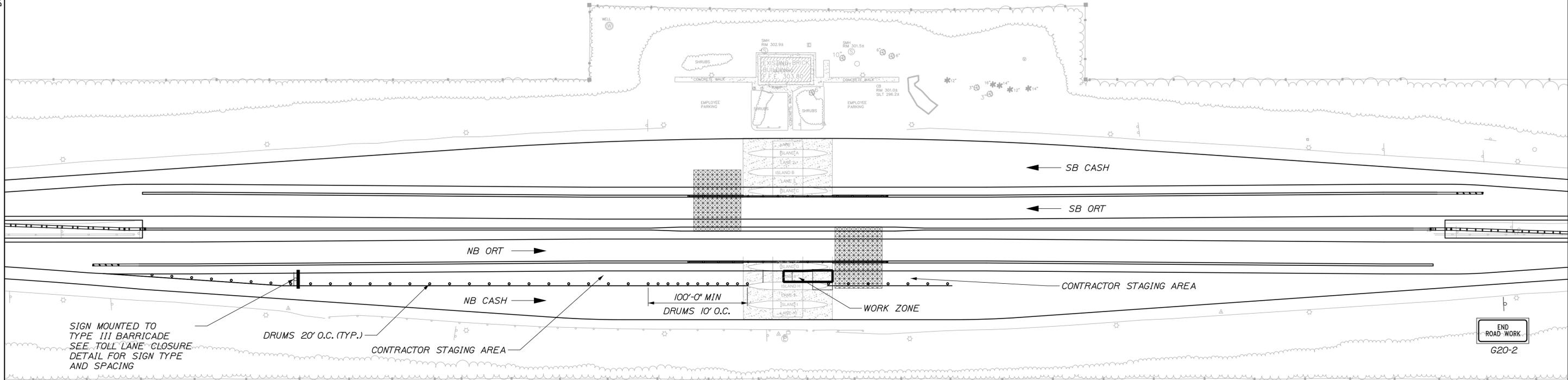
CONTRACT: 2019.11

SHEET NUMBER: S-02

104 OF 105

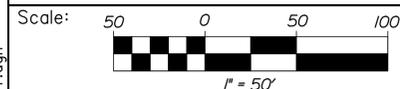
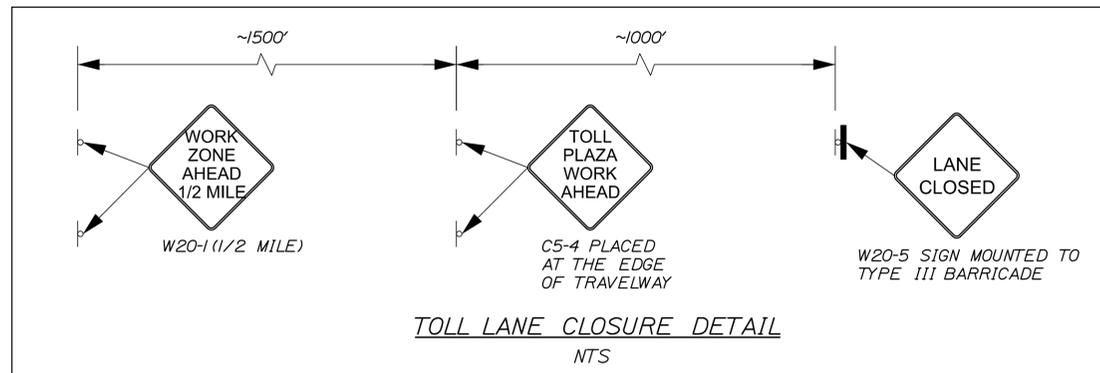
Filename: 002\_NG Rehab.dgn

Date: 2/21/2019



SIGN MOUNTED TO TYPE III BARRICADE SEE TOLL LANE CLOSURE DETAIL FOR SIGN TYPE AND SPACING

END ROAD WORK  
G20-2



Designed by:



HNTB CORPORATION  
340 County Road, Suite 6-C  
Westbrook, ME 04092  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**NEW GLOUCESTER  
CASH LANE 8 REHABILITATION**

MAINTENANCE OF TRAFFIC

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date	Checked	By	Date
Designed	RBM	02/19	Checked	RBM	02/19
Drawn	MHP	02/19	In Charge of	RAL	02/19

MTA PROJECT MANAGER: William Yates

CONTRACT: 2019.11

SHEET NUMBER: S-03

105 OF 105

Filename: 003\_MOT.dgn