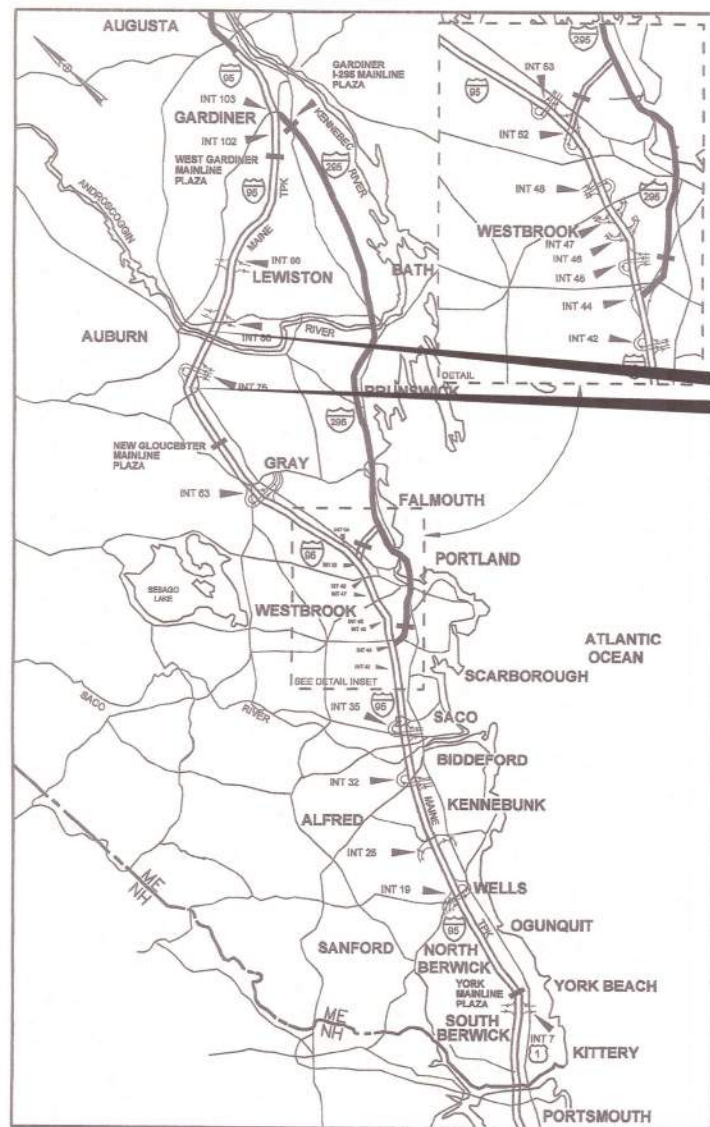


Date: 3/28/2018

Username:

Division: HIGHWAY

Filename: \\00\HIGHWAY\AMSTA\001_Title.dgn



LOCATION MAP

CONTRACT 2018.12
 PAVEMENT REHABILITATION,
 GUARDRAIL, DRAINAGE, AND
 CLEAR ZONE IMPROVEMENTS
 MM 74.9 TO MM 80.7



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 2018.12 PAVEMENT REHABILITATION, GUARDRAIL, DRAINAGE, AND CLEAR ZONE IMPROVEMENTS MM 74.9 TO MM 80.7

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3	DRAINAGE SUMMARY SHEET
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6	TRAFFIC CONTROL - ADVANCED SIGNING DETAILS
7-9	TRAFFIC CONTROL - DETAILS
10-11	TRAFFIC CONTROL - LANE CLOSURES AT RAMPS
12-14	MAINTENANCE OF TRAFFIC - SIGN SUMMARY
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22	BERM CORRECTION DETAILS
23	GUARDRAIL GENERAL NOTES
24	GUARDRAIL WIDENING DETAILS
25-27	GUARDRAIL LIMITS

CONTRACT 2018.12

APPROVED: MAINE TURNPIKE AUTHORITY

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

3/29/18
 DATE

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

3/29/18
 DATE



Joseph R. Howe
 JOSEPH R. HOWE, P.E.
 ENGINEER OF RECORD

3/28/2018
 DATE

James Ferguson
 JAMES FERGUSON
 PROJECT MANAGER

3/28/2018
 DATE

TYLIN INTERNATIONAL

Date: 3/29/2018

Filename: ... \MSTA\002_general_notes.dgn

ESTIMATED QUANTITIES						
ITEM NO.	ITEM	UNIT	PAVING QUANTITY	CULVERTS QUANTITY	GUARDRAIL QUANTITY	TOTAL QUANTITY
202.202	REMOVING PAVEMENT SURFACE - MAINLINE	SY	153,000			153,000
202.2026	REMOVING PAVEMENT SURFACE - DRAINAGE PATHS	SF	6350			6350
202.205	RUMBLE STRIPS	EA	59,000			59,000
203.24	COMMON BORROW	CY		120	50	170
205.511	WIDENING OF EXISTING SHOULDER	LF			75	75
211.30	DITCH EXCAVATION	LF		3050		3050
403.208	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE	T	860			860
403.2081	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)	T	12,400			12,400
403.211	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SHIMMING)	T	4100			4100
409.15	BITUMINOUS TACK COAT, APPLIED	G	12,500			12,500
424.323	ASPHALT RUBBER MASTIC CRACK SEALER - APPLIED	LB	20,000			20,000
427.09	PAVEMENT CRACK REPAIR	LF	7150			7150
429.341	GRID/PAVING FABRIC COMPOSITE INTERLAYER	SF	33,600			33,600
470.08	BERM DROP OFF CORRECTION - GRINDINGS	T	2000			2000
527.304	ENERGY ABSORBING SYSTEM (C-A-T) - REMOVE & STACK	EA			4	4
603.155	12" RCP CLASS III	LF		32		32
603.159	12" CULVERT PIPE OPTION III	LF		91		91
603.179	18" CULVERT PIPE OPTION III	LF		40		40
603.199	24" CULVERT PIPE OPTION III	LF		32		32
603.209	30" CULVERT PIPE OPTION III	LF		16		16
603.28	CONCRETE COLLAR	EA		11		11
604.184	REBUILD CATCH BASIN TO GRADE - TYPE II	EA		1		1
606.178	GUARDRAIL BEAM	LF			1500	1500
606.24	GUARDRAIL TYPE 3D - SINGLE RAIL	LF			75	75
606.2401	GUARDRAIL TYPE 3D - DOUBLE RAIL	LF			300	300
606.2652	TERMINAL END - REMOVE AND STACK	EA			19	19
606.278	TERMINAL END - ANCHORED END	EA			19	19
606.356	UNDERDRAIN DELINEATOR POST	EA			35	35
606.3562	UNDERDRAIN DELINEATOR POST - REMOVE AND STACK	EA			28	28
606.3606	GUARDRAIL - REMOVE, MODIFY, AND RESET DOUBLE RAIL	LF			890	890
606.3621	GUARDRAIL ADJUST, SINGLE RAIL	LF			20900	20,900
606.3622	GUARDRAIL ADJUST, DOUBLE RAIL	LF			22100	22,100
606.471	SINGLE OFFSET BLOCK - W-BEAM	EA			20	20
606.48	SINGLE GALVANIZED STEEL POST	EA			30	30
606.754	WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	EA			4	4
606.755	MODIFY WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	EA			19	19
606.79	GUARDRAIL 350 FLARED TERMINAL	EA			5	5
610.08	PLAIN RIPRAP	CY		57		57
613.319	EROSION CONTROL BLANKET	SY		2400		2400
615.07	LOAM	CY		290		290
618.14	SEEDING METHOD #2	UNIT		24		24
619.1201	MULCH - PLAN QUANTITY	UNIT		24		24
619.1202	TEMPORARY MULCH	LS		1		1
620.58	EROSION CONTROL GEOTEXTILE	SY		150		150
627.18	12" SOLID WHITE PAVEMENT MARKING LINE	LF	2550			2550
627.712	WHITE OR YELLOW PAVEMENT MARKING LINE	LF	103,000			103,000
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF	142,000			142,000
627.812	TEMPORARY RAISED PAVEMENT MARKERS	EA	26,000			26,000
627.94	PAVEMENT MARKING TAPE	LF	1800			1800
627.941	PAVEMENT MARKING TAPE - DOTTED WHITE LANE LINE, 6-INCH WIDTH	LF	550			550
629.05	HAND LABOR, STRAIGHT TIME	HR		40		40
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	HR		10		10
631.11	AIR TOOL (INCLUDING OPERATOR)	HR		10		10
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR		40		40
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR		40		40
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	HR		10		10
631.36	FOREMAN	HR		40		40

ESTIMATED QUANTITIES						
ITEM NO.	ITEM	UNIT	PAVING QUANTITY	CULVERTS QUANTITY	GUARDRAIL QUANTITY	TOTAL QUANTITY
652.30	FLASHING ARROW BOARD	EA	2			2
652.331	DRUM	LS	1			1
652.34	CONE	EA	10			10
652.35	CONSTRUCTION SIGNS	SF	3400			3400
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.83	0.06	0.11	1
652.410	PORTABLE - CHANGEABLE MESSAGE SIGN	EA	3			3
652.45	TRUCK MOUNTED ATTENUATOR	CD	60	10	30	100
652.452	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	EA	2			2
652.46	TEMPORARY PORTABLE RUMBLE STRIP	UNIT	180	30	90	300
656.632	30 INCH TEMPORARY SILT FENCE	LF		830		830
659.10	MOBILIZATION	LS	0.83	0.06	0.11	1

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE 2014 MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO START OF 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 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 SMART MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATIONS).
- ALL STANDARD DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINE DOT) STANDARD DETAILS HIGHWAY AND BRIDGES 2014 LATEST REVISIONS AND MAINE DOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- COMMON BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR. GRANULAR BORROW AND AGGREGATE SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.

DRAINAGE NOTES:

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

EROSION CONTROL:

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

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	PJB	3/2018	Checked	JRH	3/2018
Drawn	PJB	3/2018	In Charge of	JOF	3/2018

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

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

ESTIMATED QUANTITIES AND GENERAL NOTES

SHEET NUMBER: C-1

CONTRACT: 2018.12

2 OF 27



Date: 3/29/2018

STATION	NB / SB	ITEM 211.30 DITCH EXCAVATION	ITEM 603.155 12" RCP CLASS III	ITEM 603.159 12" CULVERT PIPE OPTION III	ITEM 603.179 18" CULVERT PIPE OPTION III	ITEM 603.199 24" CULVERT PIPE OPTION III	ITEM 603.209 30" CULVERT PIPE OPTION III	ITEM 603.28 CONCRETE COLLAR	ITEM 604.184 REBUILD CATCH BASIN TO GRADE - TYPE II	ITEM 610.08 PLAIN RIPRAP	ITEM 613.319 EROSION CONTROL BLANKET	ITEM 620.58 EROSION CONTROL GEOTEXTILE	ITEM 656.632 30" TEMPORARY SILT FENCE	SLOPE REPAIR	REMARKS
3785+00 TO 3786+00	NB	100.0									66.7				DITCH FROM PIPE END DOWNSTATION TO DITCH CULVERT
3786+00	NB			12.0				1.0		2.20		10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3793+00	SB			12.0				1.0		2.20		10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3799+40 TO 3800+00	NB	60.0									40.0				REMOVE EXISTING PIPE FROM ELBOW TO OUTLET, DITCH BACK TO SB ON/ OFF RAMP
3800+00	SB				16.0			1.0		3.30		15.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3806+50	SB	660.0	32.0					1.0		2.20	440.0	10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON, DITCH BACK TO OFF RAMP
3808+45	SB						16.0	1.0		5.50		25.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3820+09	NB			16.0				1.0		2.20		10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3822+00	SB										30.0		50.0	SB	REPAIR WASHOUT BEHIND GUARDRAIL
3828+00	NB									7.00		25.0	60.0		EXTEND STONE DOWNSPOUT TO TOE OF BACKSLOPE AT DANVILLE CORNER ROAD
3850+71	SB					16.0		1.0		4.40		20.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3866+53	SB			16.0				1.0		2.20		10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3867+75	SB										170.0		110.0	SB	REPAIR MATERIAL SETTLEMENT ON INSLOPE ABOVE CROSS PIPE
3897+80	SB										30.0		50.0	SB	REPAIR WASHOUT ON INSLOPE
3908+00	SB			15.0				1.0		2.20		10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3911+18	NB										30.0		50.0	NB	REPAIR WASHOUT BEHIND GUARDRAIL
3921+00 TO 3932+00	NB/SB	2200.0													DITCH NORTHBOUND AND SOUTHBOUND
3934+75	NB										30.0		50.0	NB	REPAIR WASHOUT BEHIND GUARDRAIL
3935+00	SB				22.0			1.0		3.30	1466.7	15.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
3946+50	SB									3.50	30.0	12.5	50.0	SB	REPAIR WASHOUT ON INSLOPE, ADD RIPRAP AS DIRECTED
3959+00	NB										30.0		50.0	NB	REPAIR WASHOUT BEHIND GUARDRAIL
3977+75	SB					16.0		1.0		4.40		20.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
4012+25	MEDIAN								1.0						
4017+35	NB			20.0						2.20		10.0	30.0		REPLACE OUTLET PIPE END, PLACE NEW RIPRAP APRON
TOTALS		3020.0	32.0	91.0	38.0	32.0	16.0	11.0	1.0	46.8	2363.3	202.5	830.0		
UNIT		LF	LF	LF	LF	LF	LF	EA	EA	CY	SY	SY	LF		

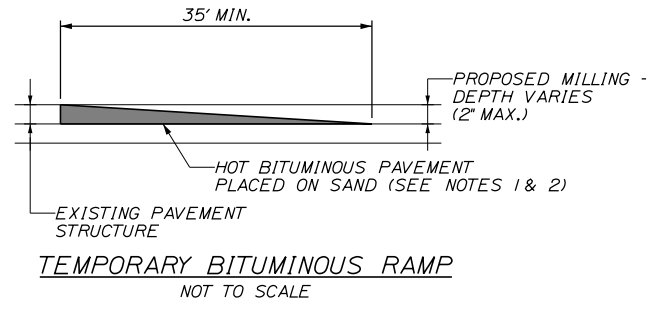
NOTES:

- MATCH EXISTING INVERTS/RIM OR AS DIRECTED BY THE RESIDENT.
- SLOPE REPAIR WILL INCLUDE PLACEMENT OF COMMON BORROW, LOAM, AND SEED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER THE CORRESPONDING PAY ITEMS.

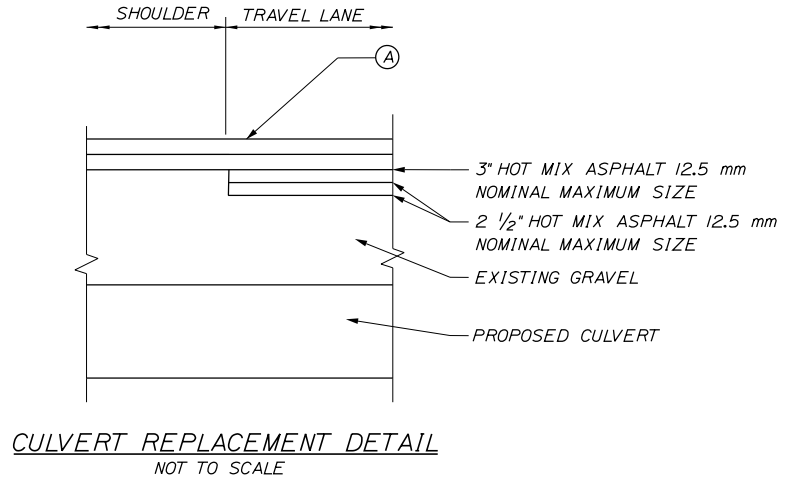
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Scale:		Designed by:				T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753				THE GOLD STAR MEMORIAL HIGHWAY		PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS DRAINAGE SUMMARY SHEET																	
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision											By	Date					CONSULTANT PROJECT MANAGER: Jim Ferguson		<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>PJB 1/2018</td> <td>Checked</td> <td>JRH 1/2018</td> </tr> <tr> <td>Drawn</td> <td>PJB 1/2018</td> <td>In Charge of</td> <td>JOF 3/2018</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	PJB 1/2018
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Drawn	PJB 1/2018	In Charge of	JOF 3/2018																										

Date: 3/29/2018

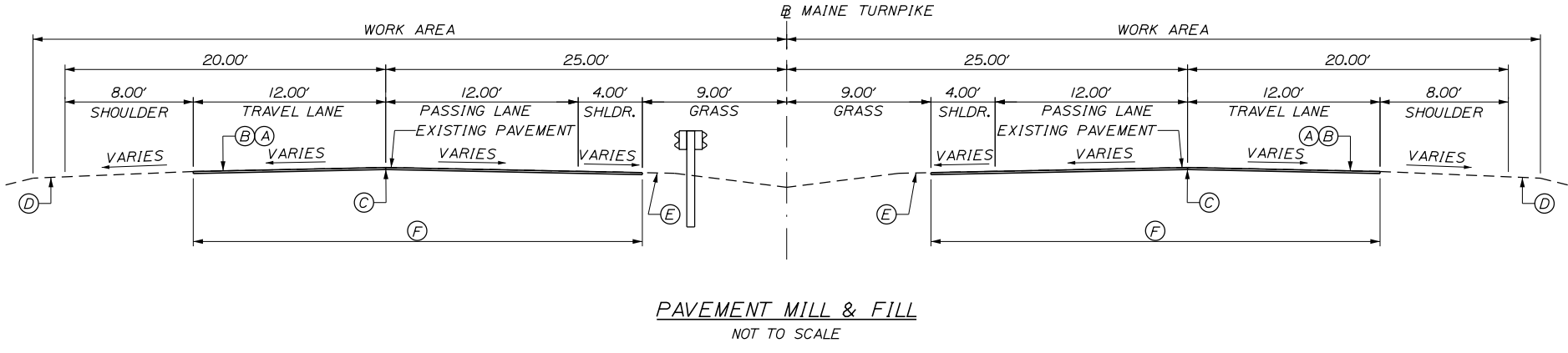


- NOTES:**
- HOT MIX ASPHALT FOR TEMPORARY RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO ITEM 403.2081.
 - REMOVAL OF TEMP. BITUMINOUS RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO ITEM 403.2081.



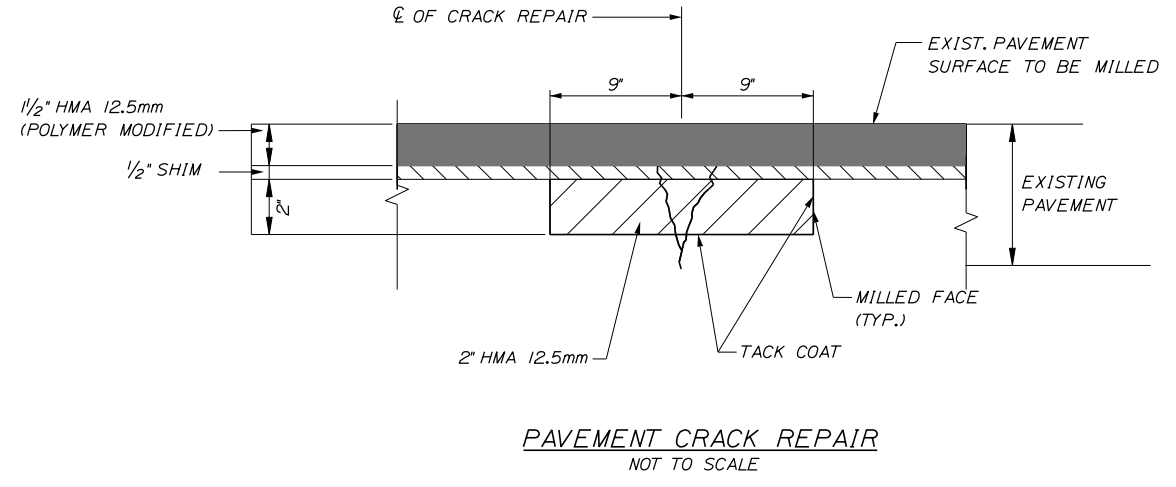
PAVEMENT LEGEND:

- (A) = 1/2" HOT MIX ASPHALT 12.5 mm NOMINAL MAXIMUM SIZE (POLYMER MODIFIED) OVER 1/2" HOT MIX ASPHALT (SHIMMING).
- (B) = MILLING DEPTH VARIES TO ACHIEVE A 2" DEPTH AT THE EDGES OF LANE BEING MILLED.
- (C) = DOUBLE LAYER OF TACK ON NOTCHED WEDGE
- (D) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL A, SHEET P-7).
- (E) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL B, SHEET P-7).
- (F) = LIMITS OF MILL AND FILL (28'-2").



- NOTES:**
- A COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690 TYPE IV) SHALL BE APPLIED AT THE TOP SURFACE LIFT TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS EXCEPT WHERE THE NOTCHED WEDGE IS USED.
 - BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND PROPOSED HMA.
 - PAYMENT FOR HOT MIX ASPHALT 12.5 mm NOMINAL MAXIMUM SIZE WILL BE MADE UNDER ITEM 403.2081.

PAVEMENT CRACK REPAIR



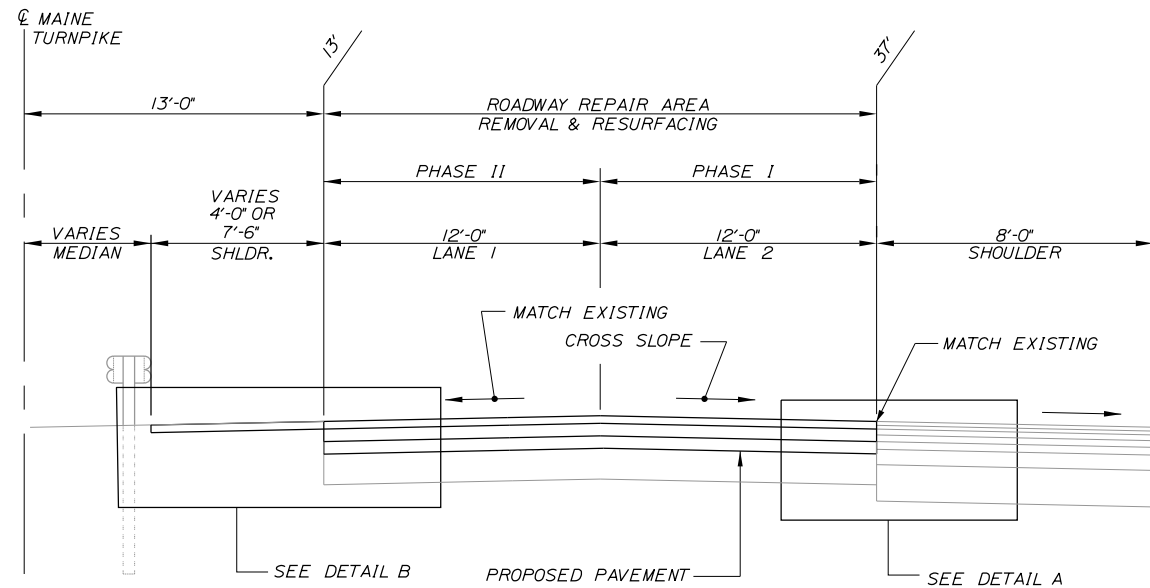
NORTHBOUND						SOUTHBOUND					
BEGIN STA	END STA	LANE	LT WHEEL PATH	RIGHT WHEEL PATH	LF	BEGIN STA	END STA	LANE	LT WHEEL PATH	RIGHT WHEEL PATH	LF
3787+00	3790+00	Ramp		x	600	4033+50	4036+00	2		x	250
3846+75	3847+75	2		x	100	4031+00	4033+00	2		x	200
3928+75	3929+50	2		x	75	4030+00	4030+60	2		x	60
3932+25	3932+50	2		x	25	4011+00	4012+00	2		x	100
3993+50	3996+00	2	x		500	4011+00	4012+00	1		x	100
3996+00	3998+00	2		x	200	4008+25	4009+00	1		x	75
4003+00	4003+50	2		x	50	3997+00	4005+00	1		x	800
4017+00	4019+00	2		x	200	3981+25	3983+00	2	x		175
4021+20	4024+20	2	x	x	600	3969+25	3973+50	2	x		425
4030+00	4031+00	2	x	x	200	3961+00	3961+50	1		x	50
						3932+25	3933+75	2		x	150
						3907+00	3909+50	1		x	250
						3852+00	3853+50	2		x	150
						3846+90	3849+00	2		x	210
						3845+25	3846+00	2		x	75
						3813+50	3814+50	2		x	100
SUBTOTALS					2550						3170

TOTAL CRACK REPAIR IDENTIFIED = 5720 LF (1.08 MILES)
 ADDITIONAL AREA TO BE USED AS DIRECTED BY THE RESIDENT = 1430 LF (0.27 MILES)
 TOTAL CRACK REPAIR = 7150 LF (1.35 MILES)

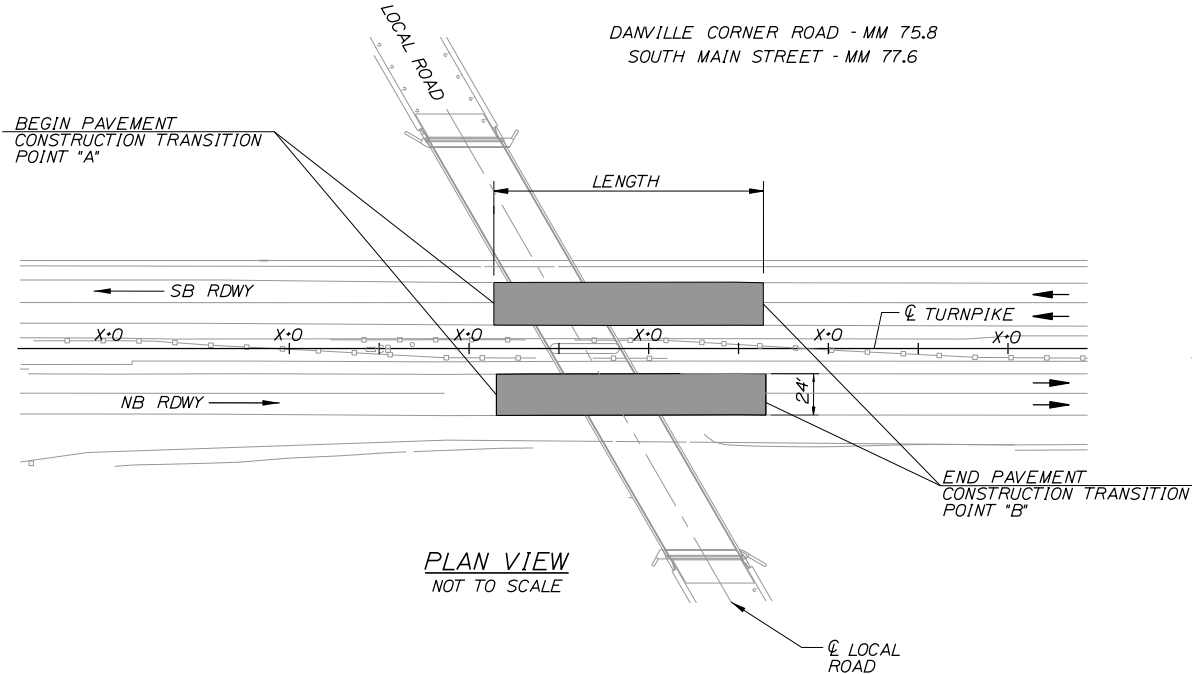
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Scale: AS NOTED	Designed by: TYLIN INTERNATIONAL	T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753		THE GOLD STAR MEMORIAL HIGHWAY	PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS TYPICAL SECTIONS 1 OF 2																			
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No.	Revision	By	Date																					
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Date: 3/29/2018

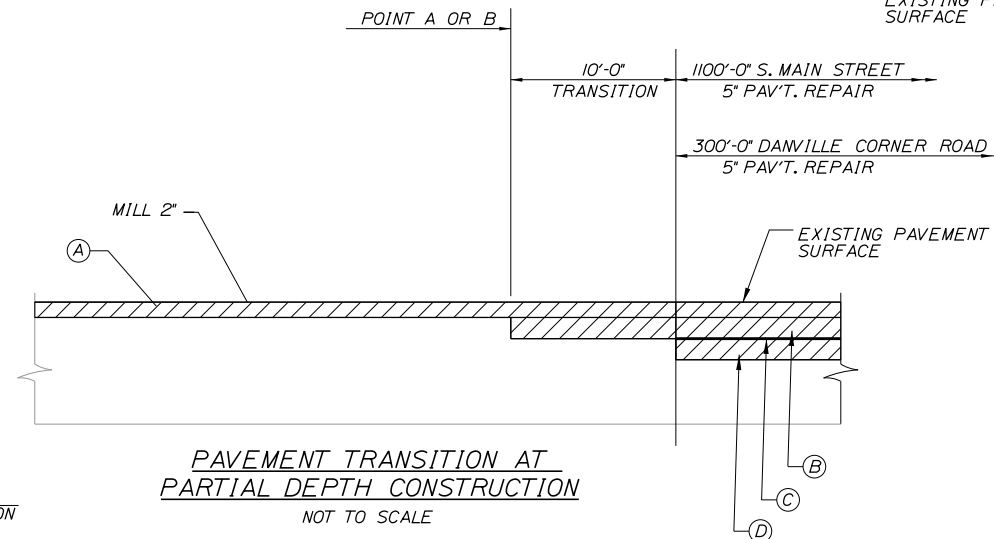


2 LANE TYPICAL HALF SECTION - NB
NOT TO SCALE

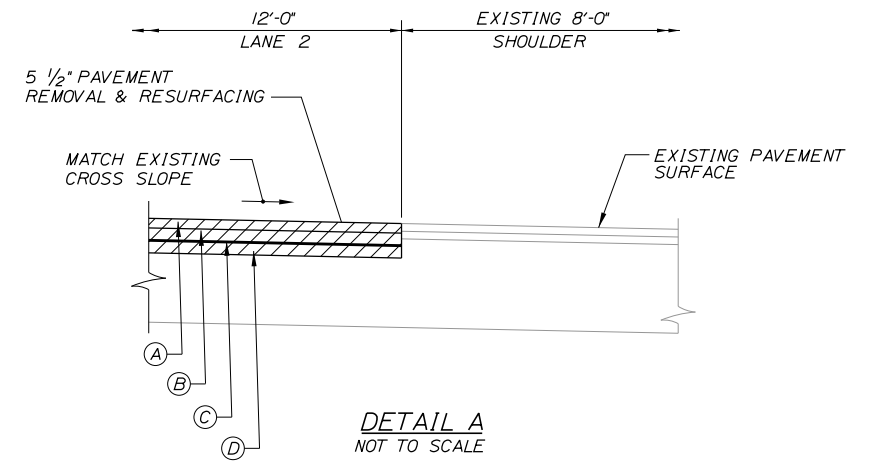


PLAN VIEW
NOT TO SCALE

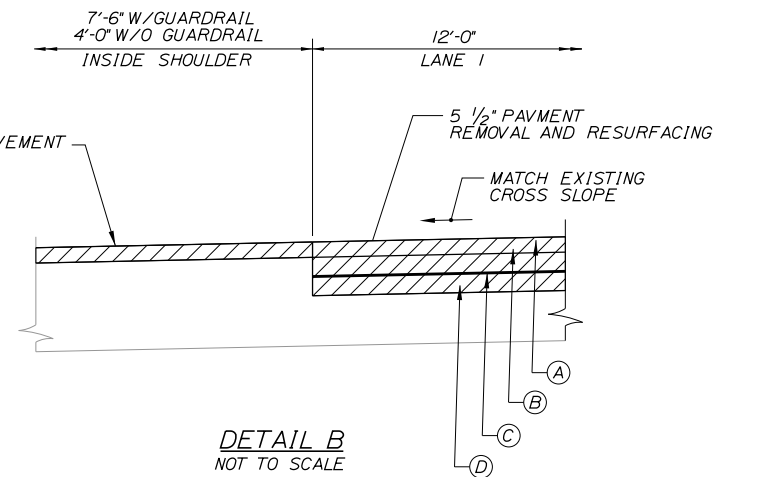
BRIDGE NAME NO.	RDWY.	LENGTH	POINT A	POINT B
DANVILLE CORNER ROAD MM 75.8	NB	320.0'	TO BE FIELD LOCATED BY THE RESIDENT	
SOUTH MAIN STREET MM 77.6	SB	1120.0'	STA. 3920+90	STA. 3932+10



PAVEMENT TRANSITION AT PARTIAL DEPTH CONSTRUCTION
NOT TO SCALE



DETAIL A
NOT TO SCALE



DETAIL B
NOT TO SCALE

LEGEND

- (A) - 1 1/2" HOT MIX ASPHALT, 12.5mm (POLYMER MODIFIED) OVER 1/2" HOT MIX ASPHALT (SHIMMING)
- (B) - 1 3/4" HOT MIX ASPHALT 12.5mm
- (C) - GLASGRID 8511
- (D) - 1 3/4" HOT MIX ASPHALT 12.5mm

NOTES:

1. A COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690 TYPE IV) SHALL BE APPLIED TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS EXCEPT WHERE THE NOTCHED WEDGE IS USED.
2. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LAYERS OF PAVEMENT IF TEMPERATURE OF PAVEMENT IS BELOW 120° F.
3. PARTIAL DEPTH CONSTRUCTION IS TO TAKE PLACE AFTER SURFACE MILLING, AND MUST BE COMPLETED AND MATCHED TO ADJACENT LANES DURING THE SAME SHIFT.

Filename: ... \005_Typical_Sections 2.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL			
CONSULTANT PROJECT MANAGER: Jim Ferguson			
	By	Date	
Designed	PJB	1/2018	Checked JRH 2/2018
Drawn	PJB	1/2018	In Charge of JOF 3/2018

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FAX: (207) 781-4753



THE GOLD STAR MEMORIAL HIGHWAY

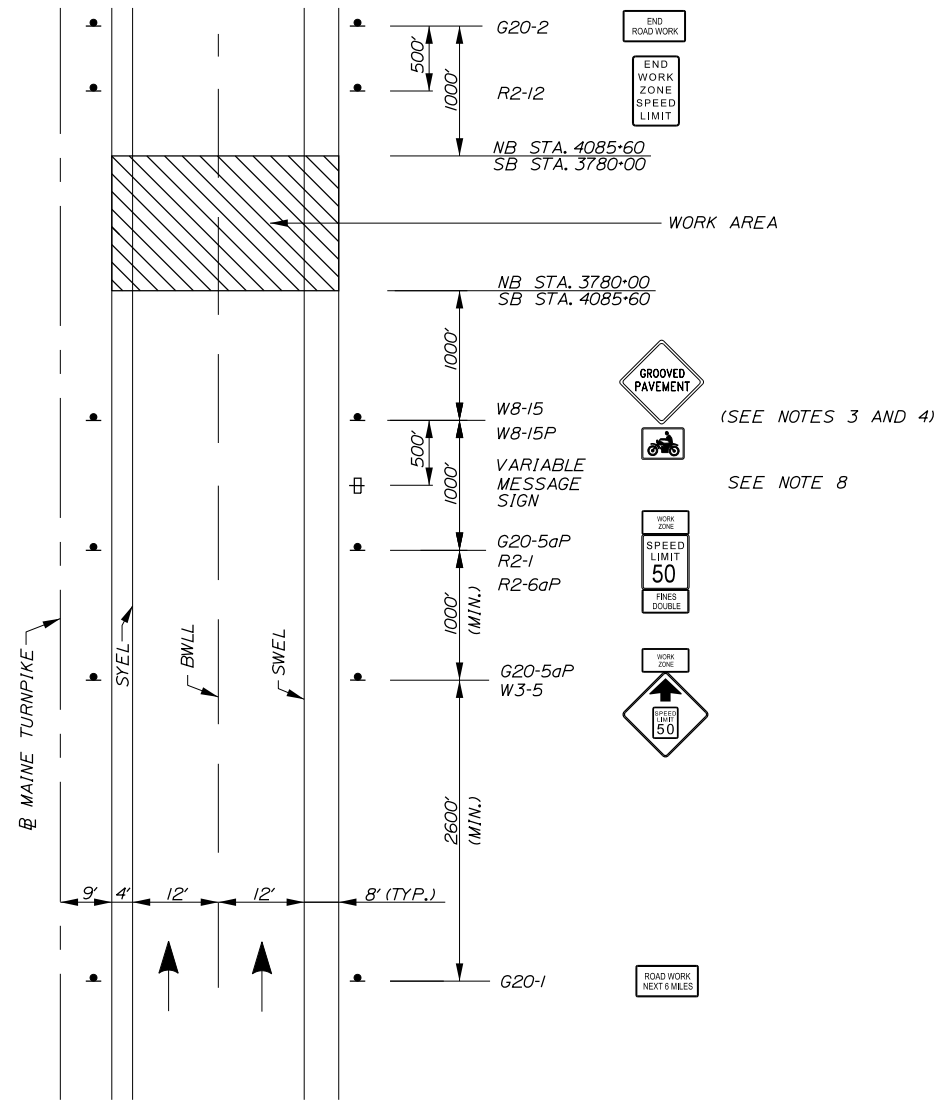
MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS
TYPICAL SECTIONS
2 OF 2

CONTRACT: 2018.12

SHEET NUMBER: C-4

5 OF 27



**MAINLINE
ADVANCED PROJECT SIGNING**

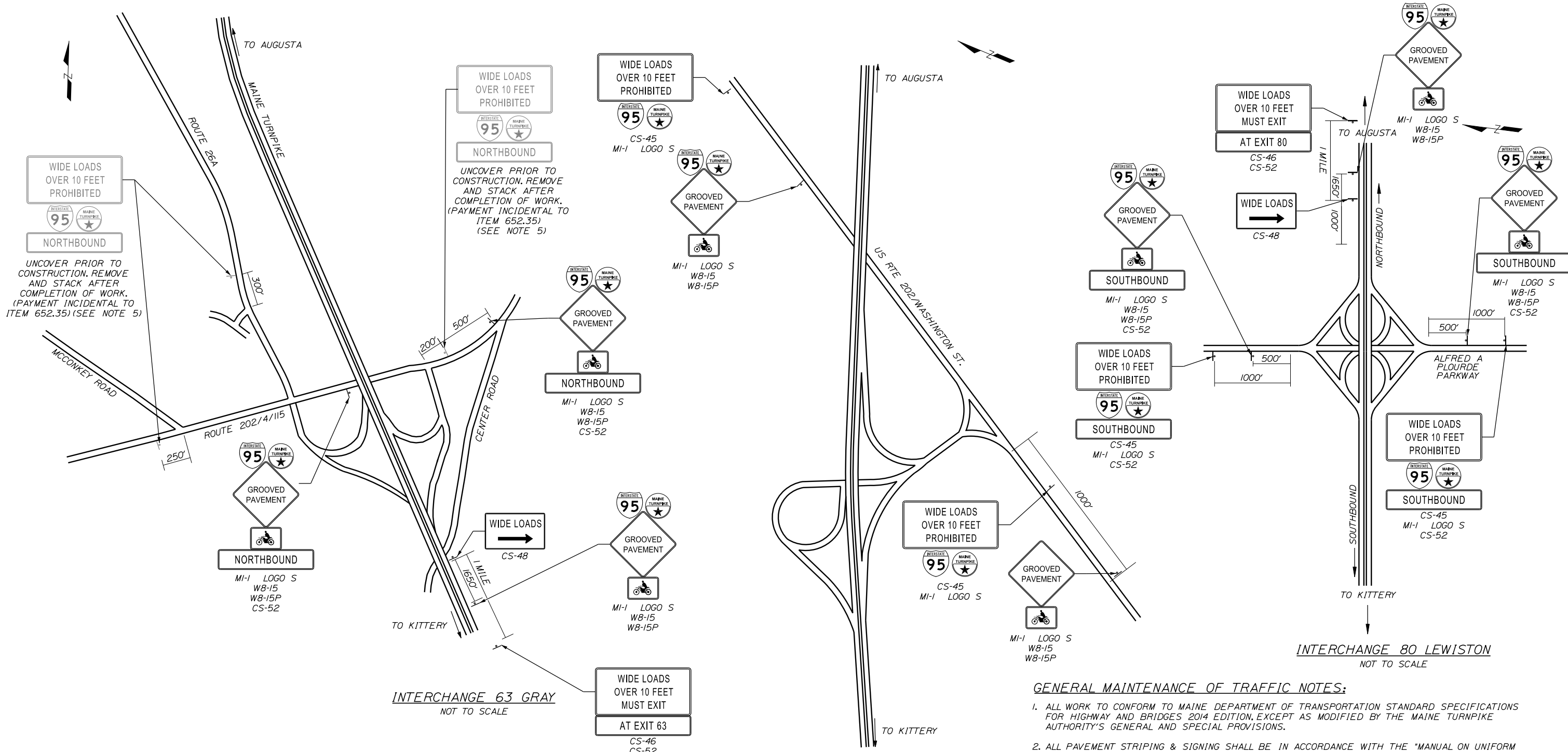
NOTES:

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL SIGNS ARE TO BE MOUNTED ON NCHRP 350 APPROVED POSTS.
3. UNCOVER W8-15 & W8-15P SIGNS WHEN PAVEMENT IS MILLED OR AS DIRECTED BY THE RESIDENT.
4. PROVIDE W8-15 AND W8-15P AT ALL MILLED LOCATIONS.
5. DUE TO SEQUENCING OF WORK AREAS, APPROACH SIGNING MAY NEED TO BE ADJUSTED AS WORK PROGRESSES.
6. WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE REPEATED EVERY 1 MILE.
7. TRAFFIC CONTROL SIGNS NOT IN USE SHALL BE COVERED AS DIRECTED BY THE RESIDENT.
8. PORTABLE CHANGEABLE MESSAGE SIGNS ARE TO BE INSTALLED AS PART OF THIS CONTRACT AS PAY ITEM 652.41. LOCATION SHALL BE 1 MILE OUTSIDE WORK AREA AND APPROVED BY THE RESIDENT.

Scale: NOT TO SCALE		Designed by: TYLIN INTERNATIONAL		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		PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS TRAFFIC CONTROL ADVANCED SIGNING DETAILS																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">CONSULTANT PROJECT MANAGER: Jim Ferguson</th> </tr> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>PJB 1/2018</td> <td>Checked</td> <td>JRH 2/2018</td> </tr> <tr> <td>Drawn</td> <td>PJB 1/2018</td> <td>In Charge of</td> <td>JOF 3/2018</td> </tr> </tbody> </table>		CONSULTANT PROJECT MANAGER: Jim Ferguson				By	Date	By	Date	Designed	PJB 1/2018	Checked	JRH 2/2018	Drawn	PJB 1/2018	In Charge of	JOF 3/2018	MTA PROJECT MANAGER: Ralph C. Norwood, IV		CONTRACT: 2018.12 SHEET NUMBER: M-1 6 OF 27	
No.	Revision	By	Date																																				
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Designed	PJB 1/2018	Checked	JRH 2/2018																																				
Drawn	PJB 1/2018	In Charge of	JOF 3/2018																																				

Date: 3/29/2018

Filename: ...:\007_Traffic_Control_Details_1.dgn



- GENERAL MAINTENANCE OF TRAFFIC NOTES:**
1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES 2014 EDITION, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
 2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
 3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD, ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
 4. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.761-TEMPORARY PAVEMENT MARKING LINE, YELLOW OR WHITE.
 5. EXISTING WIDE LOAD SIGN ASSEMBLIES SHALL BE REMOVED AND STACKED AT THE CROSBY MAINTENANCE YARD AT MM 46 SOUTHBOUND AFTER COMPLETION OF THE PROJECT. PAYMENT FOR REMOVE AND STACK SHALL BE INCIDENTAL TO ITEM 652.35.

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

TRAFFIC CONTROL DETAILS

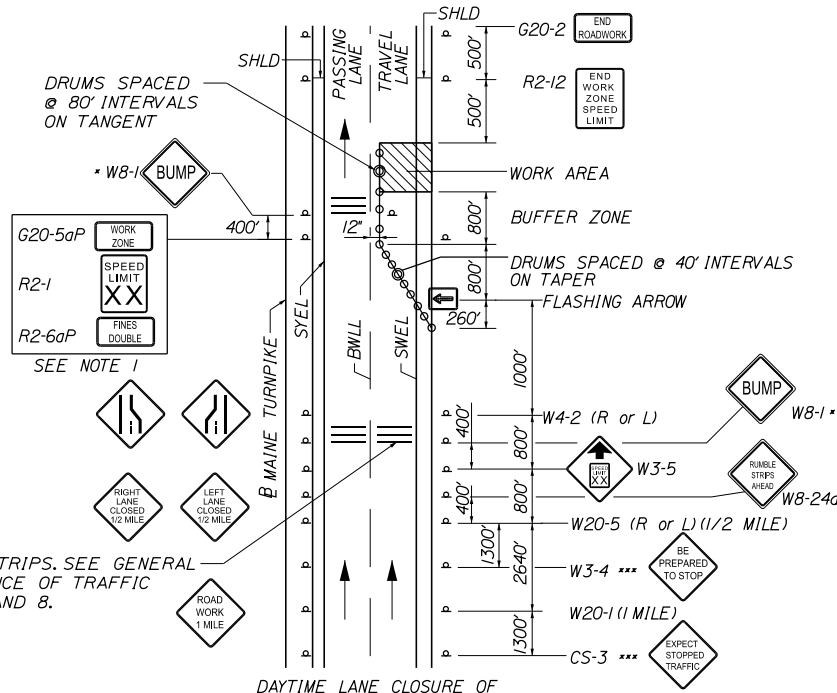
1 OF 3

SHEET NUMBER: M-2

CONTRACT: 2018.12

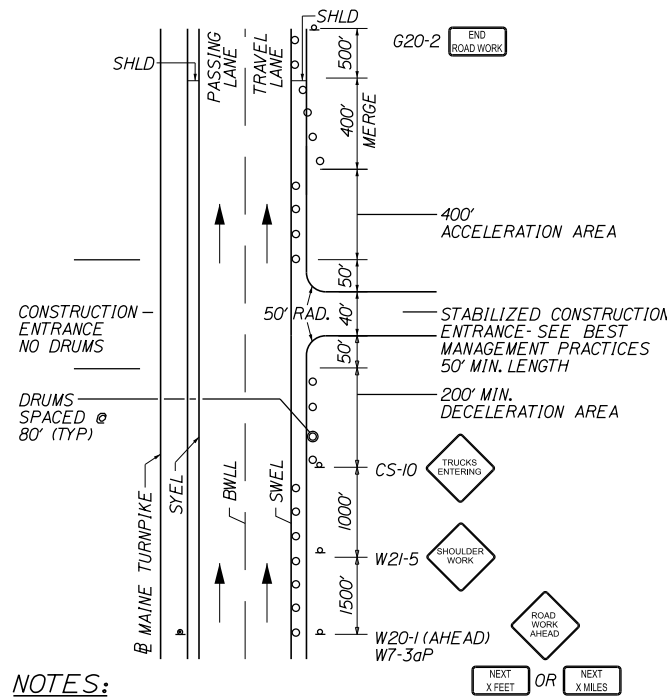
7 OF 27

Date: 3/29/2018



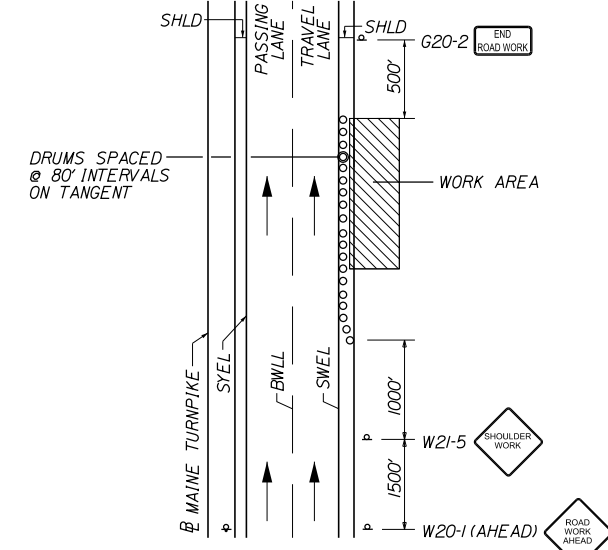
NOTES:
 1. FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED. ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.
 2. SIGNS DESIGNATED WITH *** SHALL BE USED DURING STOPPAGES OF TRAFFIC.
 * SIGN ONLY USED WHEN RUMBLE STRIPS ARE USED

SINGLE LANE CLOSURE- SIGNS ON EASELS



NOTES:
 1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.
 2. "TRUCKS ENTERING" SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.

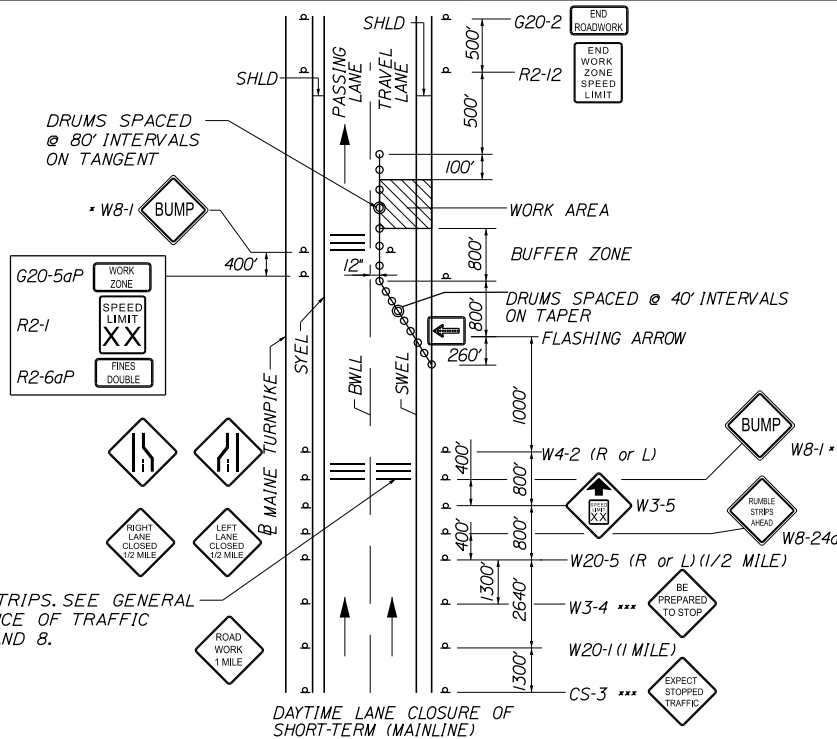
STABILIZED CONSTRUCTION ENTRANCE



SHOULDER WORK OF SHORT-TERM (MAINLINE)

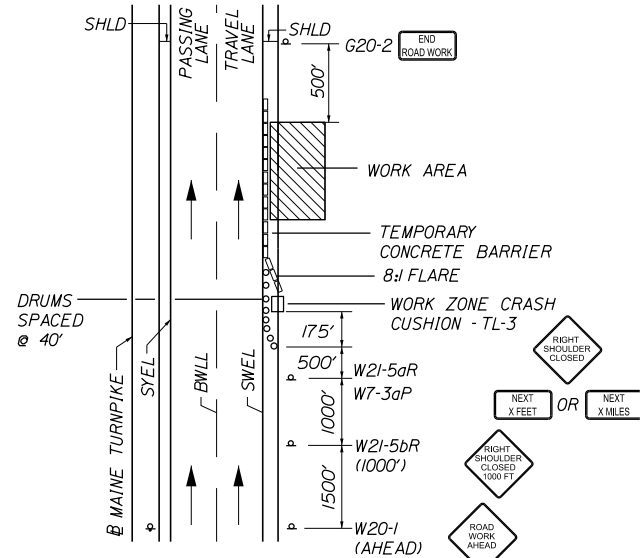
NOTE:
 THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.

SHOULDER WORK



NOTES:
 SIGNS DESIGNATED WITH *** SHALL BE USED DURING STOPPAGES OF TRAFFIC.
 FOR POST MOUNTED SIGN SETUP, UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HRS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HRS)
 *SIGN ONLY USED WHEN RUMBLE STRIPS ARE USED

SINGLE LANE CLOSURE- POST MOUNTED SIGN SETUP



SHOULDER CLOSURE (MAINLINE)

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

SHOULDER CLOSURE

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. NOTE THERE IS A 2009 EDITION OF MUTCD.
- ALL SPEED LIMIT, STOP, YIELD, AND E5-2 SIGNS SHALL BE MOUNTED 5 FEET ABOVE THE PAVEMENT SURFACE
- 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 SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHION - TL-3.
- NO SIGNS SHALL BE PLACED ON 4' SHOULDERS WITH GUARDRAIL. SIGNS REQUIRED AT THESE LOCATIONS SHALL BE PLACED ON TALLER EASELS ON THE MEDIUM SIDE OF THE GUARDRAIL.
- 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)
 W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-24a 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, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-24a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

ABBREVIATIONS FOR ALL M.O.T. PLANS:

- BWLL = BROKEN WHITE LANE LINE
- SWEL = SOLID WHITE EDGE LINE
- SYEL = SOLID YELLOW EDGE LINE
- TBLL = TEMPORARY BROKEN WHITE LANE LINE
- TSWEL = TEMPORARY SOLID WHITE EDGE LINE
- TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

Filename: ... \008_Traffic_Control_Details_2.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

By	Date	By	Date
Designed	JRH 1/2018	Checked	JRH 2/2018
Drawn	PJB 1/2018	In Charge of	JOF 3/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

TRAFFIC CONTROL DETAILS

2 OF 3

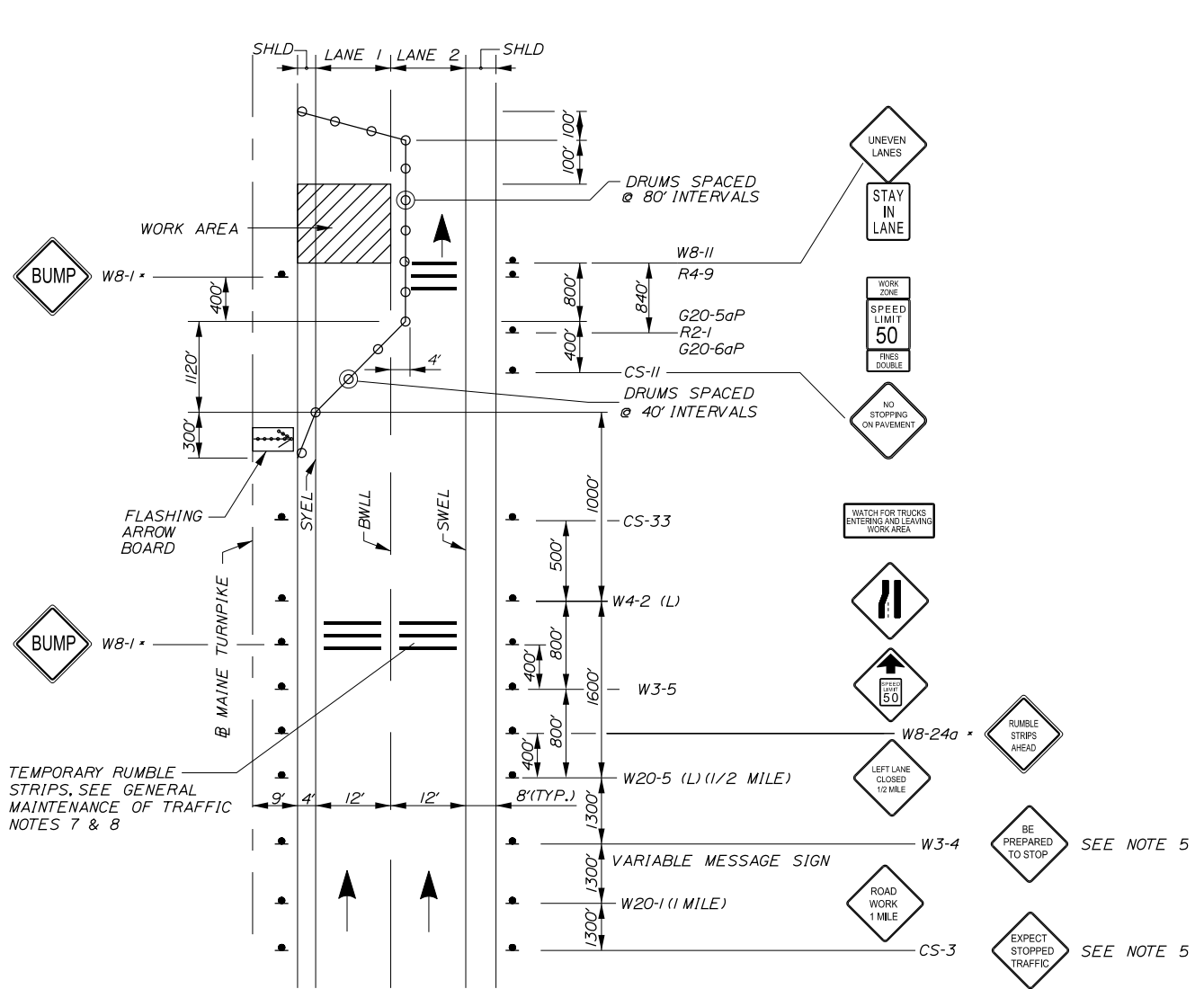
SHEET NUMBER: M-3

CONTRACT: 2018.12

8 OF 27

Date: 3/29/2018

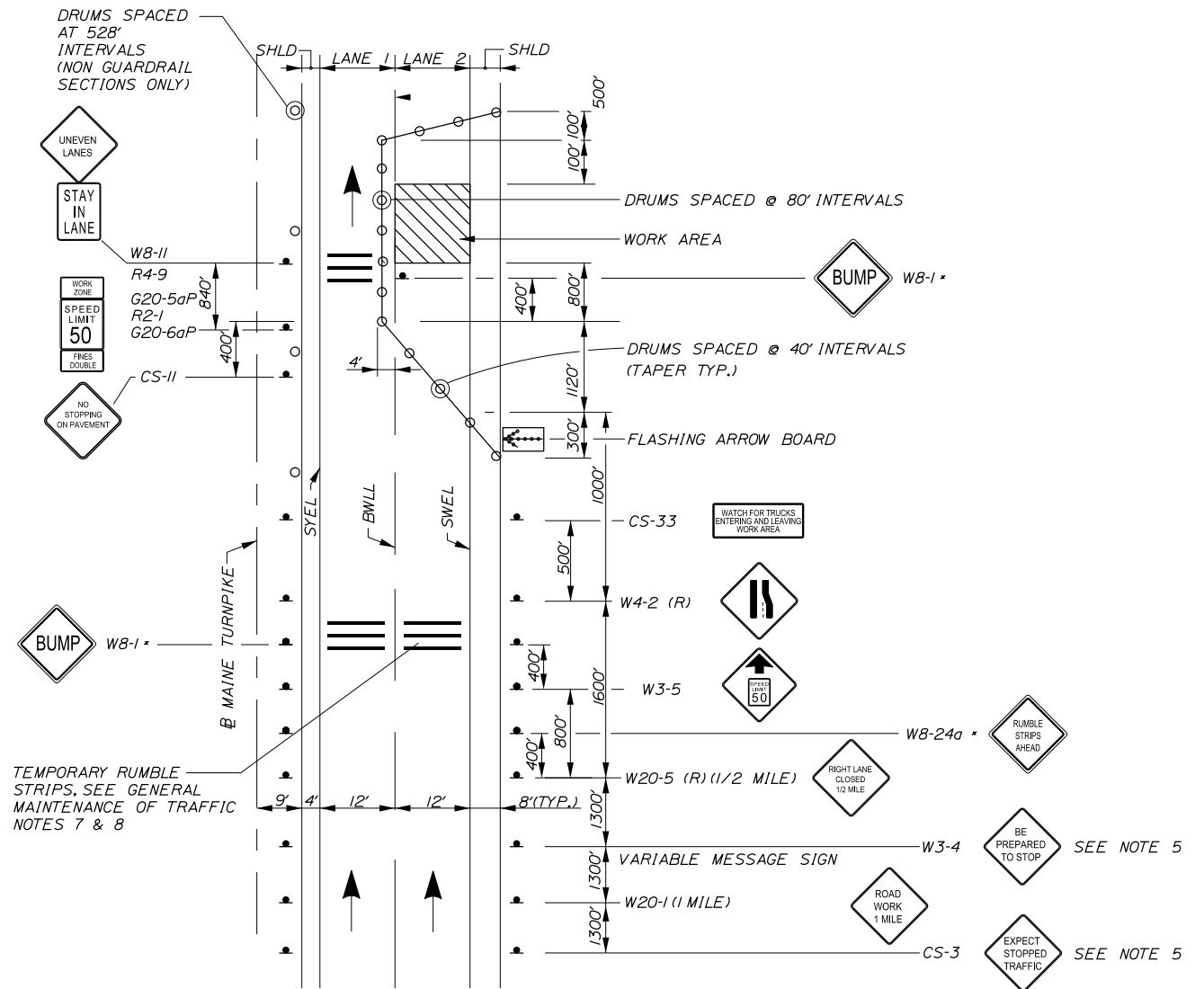
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LANE CLOSURE FOR MILLING AND PAVING OPERATIONS
LANE 1

LANE CLOSURE FOR PAVEMENT MARKINGS
LANE 1

▲ = CONSTRUCTION SIGN
* = SIGNS ONLY USED WHEN RUMBLE STRIPS ARE USED



LANE CLOSURE FOR MILLING AND PAVING OPERATIONS
LANE 2

▲ = CONSTRUCTION SIGN
* = SIGNS ONLY USED WHEN RUMBLE STRIPS ARE USED

NOTES:

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL TEMPORARY LANE CLOSURE SIGNS ARE TO BE MOUNTED ON EASELS.
3. STANDARD SINGLE LANE CLOSURES FOR LANES 1 AND 2 SHALL BE USED FOR DRAINAGE WORK, GUARDRAIL WORK, MEDIAN WORK, EQUIPMENT MOVES, BERM DROP OFF CORRECTION WORK, PAINTING OF SOLID WHITE LANE LINES, AND ALL OTHER WORK NOT REQUIRING ENCROACHMENT INTO THE ADJACENT LANE.
4. SEE SHEET M-3 FOR STANDARD SINGLE LANE CLOSURE DETAILS.
5. ERECT CS-3 AND W3-4 SIGNS IMMEDIATELY PRIOR TO SCHEDULED STOPPAGES FOR EQUIPMENT MOVES AND REMOVE THE CS-1 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date	By	Date	
Designed	PJB	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

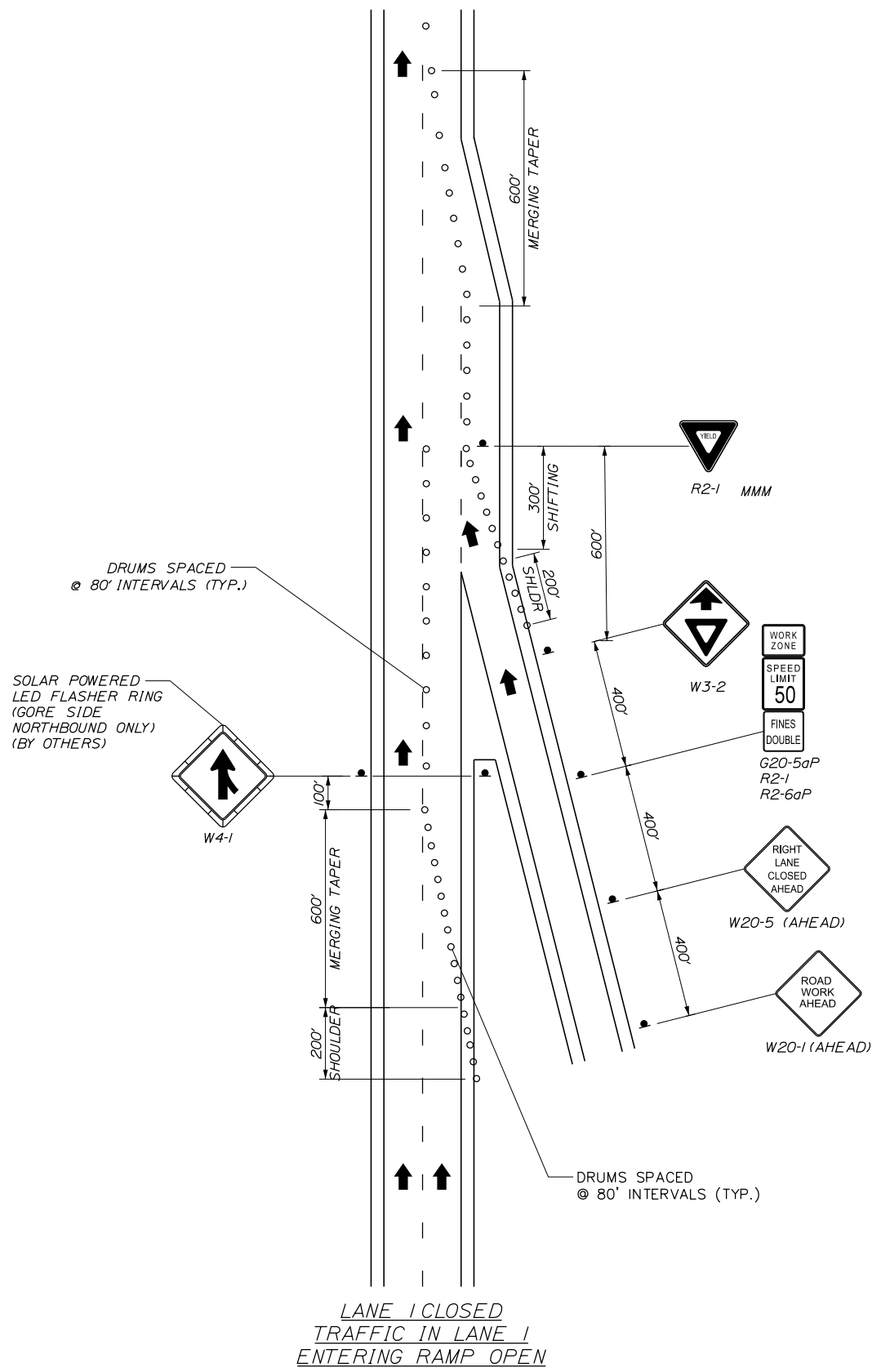
TRAFFIC CONTROL DETAILS

3 OF 3

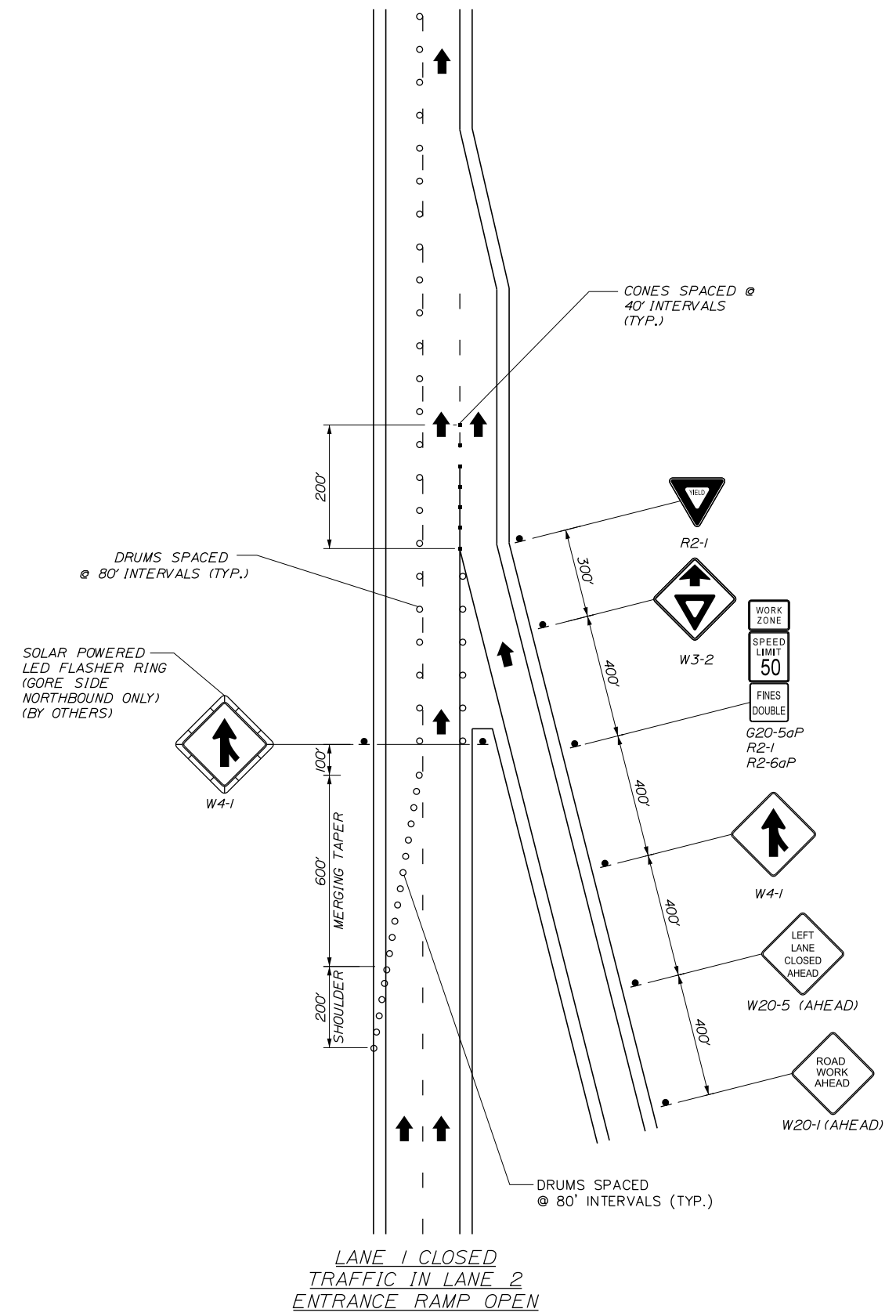
SHEET NUMBER: M-4

CONTRACT: 2018.12

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LANE 1 CLOSED
TRAFFIC IN LANE 1
ENTERING RAMP OPEN



LANE 1 CLOSED
TRAFFIC IN LANE 2
ENTRANCE RAMP OPEN

- NOTES:**
1. ALL MOT DEVICES AND LOCATIONS NOT NOTED ON THIS SHEET SHALL BE AS NOTED ON "TRAFFIC CONTROL DETAILS" SHEET 1 OF 2.
 2. FOR SIGN DETAILS SEE "MAINTENANCE OF TRAFFIC SIGN SUMMARY".
 3. ALL STOP AND YIELD SIGNS SHALL BE MOUNTED 5 FEET ABOVE THE PAVEMENT.
 4. OTHER TRAFFIC CONTROL DETAILS ARE AVAILBLE AT WWW.MAINETURNPIKE.COM. SEE THE RESIDENT BEFORE USING.
 5. MAINLINE W4-1 AND W4-1 WITH LED FLASHER RING SUPPLIED BY OTHERS SHALL BE STACKED AT THE HACKETT ROAD MAINTANENCE FACILITY AT COMPLETION OF PROJECT. PAYMENT FOR REMOVAL AND STACKING SHALL BE MADE UNDER APPROPRATE RENTAL ITEMS

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date	By	Date
Designed	JRH	9/2017	Checked	KSD 9/2017
Drawn	SAM	9/2017	In Charge of	JOF 3/2018

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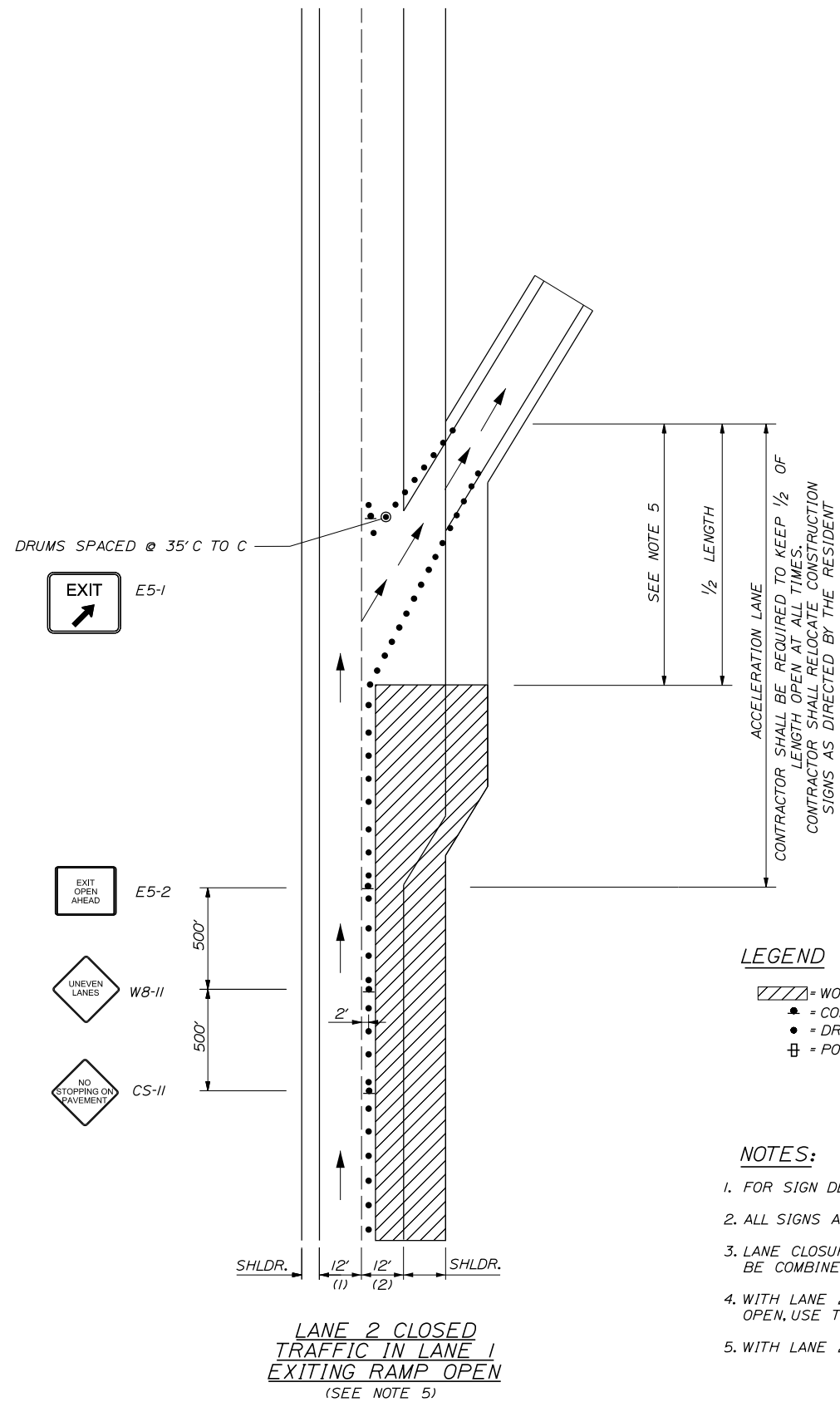
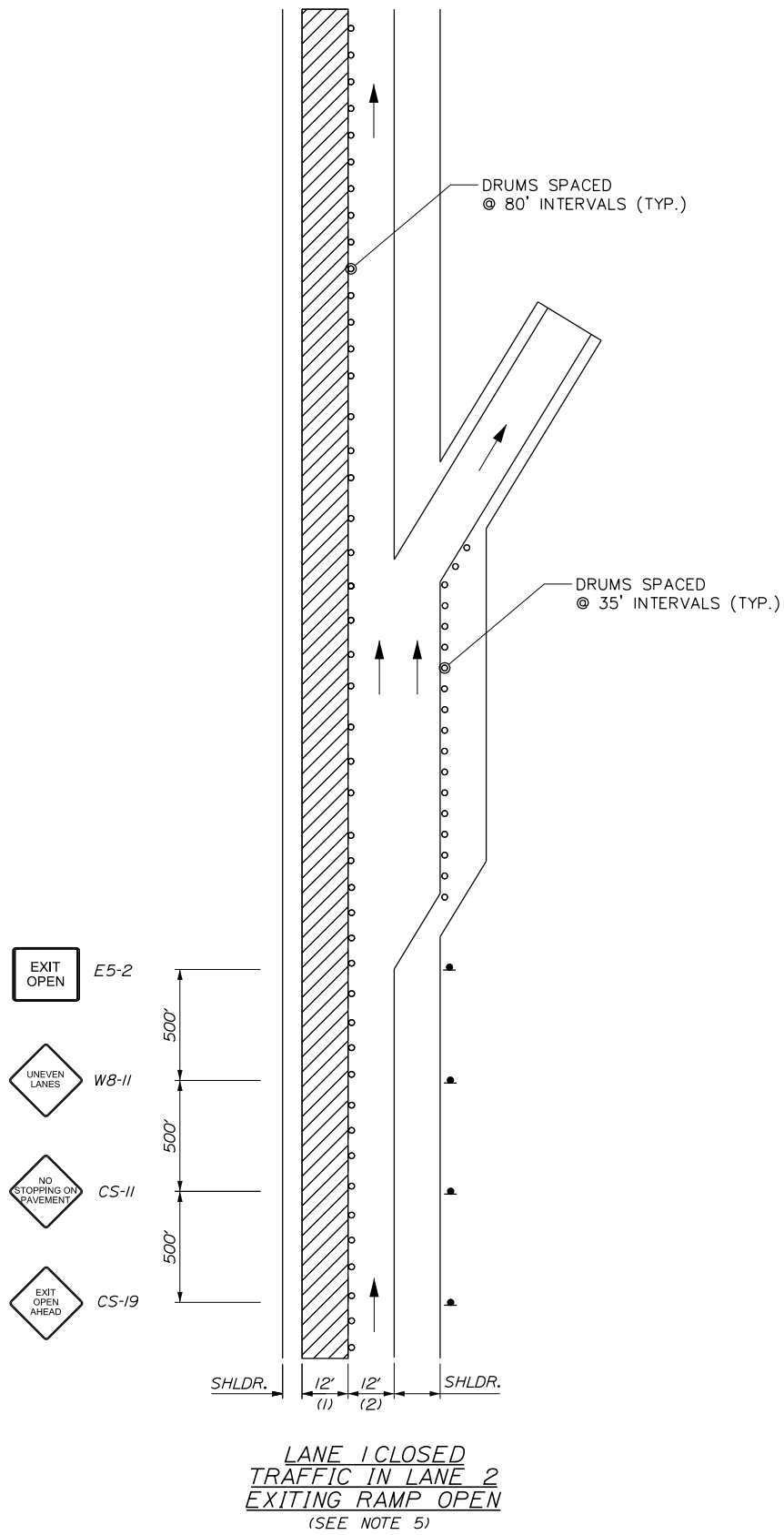
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

TRAFFIC CONTROL
LANE CLOSURE AT ENTRANCE RAMPS

SHEET NUMBER: M-5
CONTRACT: 2018.12
10 OF 27



LEGEND

- ▨ = WORK AREA
- ▲ = CONSTRUCTION SIGN
- = DRUM
- ⊞ = PORTABLE - CHANGEABLE MESSAGE SIGN

NOTES:

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL SIGNS ARE TO BE MOUNTED ON EASELS.
3. LANE CLOSURES AT ENTRANCE AND EXIT RAMPS MAY BE COMBINED IF APPROVED BY THE RESIDENT.
4. WITH LANE 2 CLOSED, AND LANE 1 AND ENTERING RAMP OPEN, USE THIS DETAIL WITH STOP SIGN.
5. WITH LANE 2 CLOSED, AND LANE 1 AND EXITING RAMP OPEN, USE THIS DETAIL.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

TRAFFIC CONTROL
LANE CLOSURE AT EXIT RAMPS





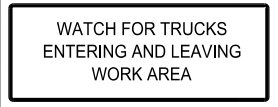

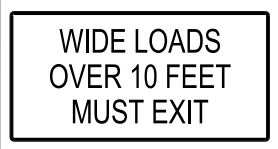

CONTRACT: 2018.12

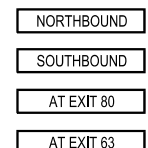




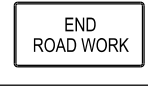
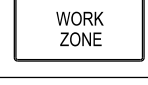



SHEET NUMBER: M-6

11 OF 27

Date: 3/29/2018

Filename: ...012-014_MOT_Sign_Summary.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-3	48"	48"		6" 6" 6"	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-10	48"	48"		7" 7"	6"		2	ORANGE	BLACK		16.00 (32)	
CS-11	48"	48"		6" 6" 6"	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-19	48"	48"		6" 6" 6"	4" 4"		2	ORANGE	BLACK		16.00 (32)	
CS-33	96"	36"		6" 6" 6"	4" 4"		4	ORANGE	BLACK		24.00 (96)	
CS-45	96"	48"		8C 8C 8C	6" 6" 6"		3	ORANGE	BLACK		32.00 (96)	
CS-46	96"	48"		8C 8C 8C	6" 6" 6"		2	ORANGE	BLACK		32.00 (64)	
CS-48	60"	36"		8D		9" x 36" @ 0"	2	ORANGE	BLACK		15.00 (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			
CS-52	96"	18"		8C	5" 5"		2 4 1 1	ORANGE	BLACK		12 (24) 12 (48) 12 (12) 12 (12)	
CS-53 (LEFT) (RIGHT)	48"	48"					10 10	ORANGE	BLACK		16.00 (160)	
E5-1	72"	60"					2	GREEN	WHITE		30.00 (60)	
E5-2 (OPEN) (OPEN AHEAD)	60"	48"					2 2	ORANGE	BLACK		20.00 (40) 20.00 (40)	
G20-1	48"	24"					4	ORANGE	BLACK		8.00 (32)	
G20-2	48"	24"					4	ORANGE	BLACK		8.00 (32)	
G20-5aP	48"	24"					18	ORANGE	BLACK		8.00 (144)	
M1-1	24"	24"					11	RED/ BLUE	WHITE		4.00 (44)	
R1-2	60"	60"					4	WHITE	RED		12.50 (50)	
R2-1	48"	60"					14	WHITE	BLACK		20.00 (280)	

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	1/2018
Drawn	BRM	1/2018	In Charge of	JOF	3/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

MAINTENANCE OF TRAFFIC SIGN SUMMARY 1 OF 3




SHEET NUMBER: M-7

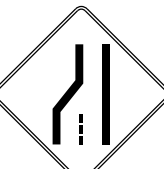

CONTRACT: 2018.12

12 OF 27

Date: 3/29/2018

Filename: ...012-014_MOT_Sign_Summary.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			
R2-6aP	48"	24"	FINES DOUBLE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			14	WHITE	BLACK		8.00 (112)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT				4	WHITE	BLACK		13.5 (54)	
R4-2	48"	30"	ROAD CLOSED				2	WHITE	BLACK		10.00 (20)	
R4-9	36"	48"	STAY IN LANE				2	WHITE	BLACK		12.00 (24)	
W3-2	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W3-4	48"	48"	BE PREPARED TO STOP				4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-1	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			
W4-2 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			4	ORANGE	BLACK		16.00 (64)	
W7-3aP	36"	30"	NEXT X FEET				4	ORANGE	BLACK		7.50 (30)	
W8-1	48"	48"	BUMP				8	ORANGE	BLACK		16.00 (128)	
W8-9	48"	48"	LOW SHOULDER				6	ORANGE	BLACK		16.00 (96)	
W8-11	48"	48"	UNEVEN LANES				6	ORANGE	BLACK		16.00 (96)	
W8-15	48"	48"	GROOVED PAVEMENT				12	ORANGE	BLACK		16.00 (192)	
W8-15P	30"	24"					12	ORANGE	BLACK		5.00 (60)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	1/2018
Drawn	BRM	1/2018	In Charge of	JOF	3/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS








MAINTENANCE OF TRAFFIC SIGN SUMMARY 2 OF 3

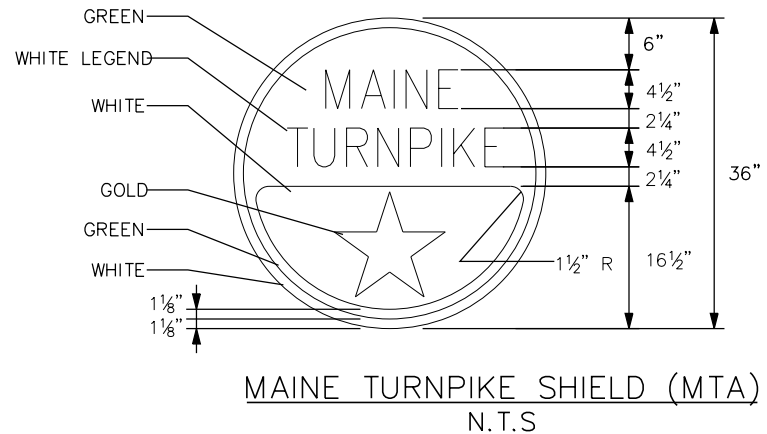
SHEET NUMBER: M-8

CONTRACT: 2018.12

13 OF 27

Date: 3/29/2018

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			
W8-24a	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			4	ORANGE	BLACK		16.00 (64)	
W20-1 (1 MILE) (AHEAD)	48"	48"					4 5	ORANGE	BLACK		16.00 (64) (80)	
W20-5 (LEFT) (RIGHT) (LEFT AHEAD) (RIGHT AHEAD)	48"	48"					4 4 2 2	ORANGE	BLACK		16.00 (64) (64) (32) (32)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32)	
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)	
LOGO S	24"	24"		SEE DETAILS			11	SEE DETAILS			4.00 (44)	



Filename: ...012-014_MOT_Sign_Summary.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

By	Date	By	Date
Designed	JRH 1/2018	Checked	JRH 1/2018
Drawn	BRM 1/2018	In Charge of	JOF 3/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

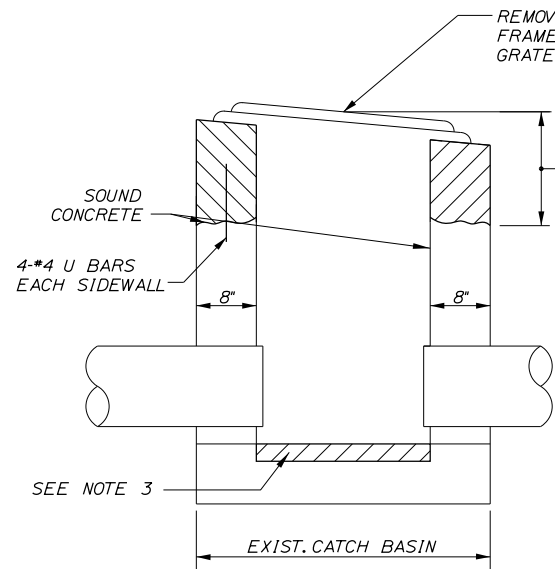
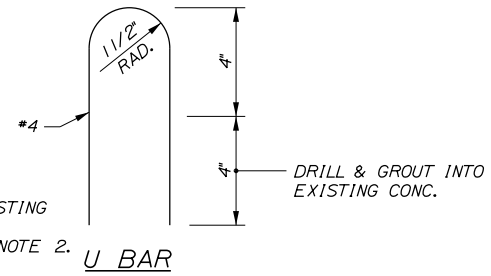
MAINTENANCE OF TRAFFIC SIGN SUMMARY 3 OF 3

SHEET NUMBER: M-9

CONTRACT: 2018.12

14 OF 27

Date: 3/29/2018



REMOVE EXISTING FRAME AND ANCHOR RODS TO SOUND CONCRETE. REFORM BASIN TO GRADE USING CLASS "AAA" CONCRETE. EXISTING FRAME MAY BE ENCASED IN CONCRETE.

- NOTES:**
- ALL EXISTING CATCH BASINS SHALL BE REBUILT WITH THE FRAME AND GRATE SET, AND CONCRETE FINISHED, TO THE FINAL PAVEMENT GRADE.
 - RESET EXISTING FRAME AND GRATE. IF ANY FRAMES OR GRATES ARE NOT REUSABLE NEW GRATES OR FRAMES SHALL BE SUPPLIED BY THE CONTRACTOR.
 - REMOVE UNSOUND CONCRETE (2" MIN.) AND REPLACE WITH NEW CONCRETE IF DIRECTED BY THE RESIDENT.

REBUILD CATCH BASIN TO GRADE - TYPE II
NOT TO SCALE
PLAN

DIMENSIONS FOR SLOPE OF 2:1

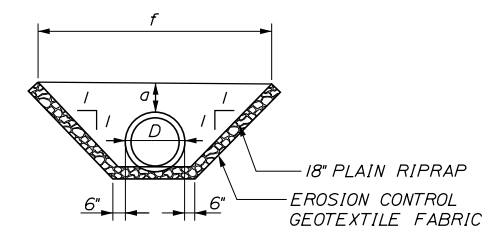
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33

DIMENSIONS FOR SLOPE OF 6:1

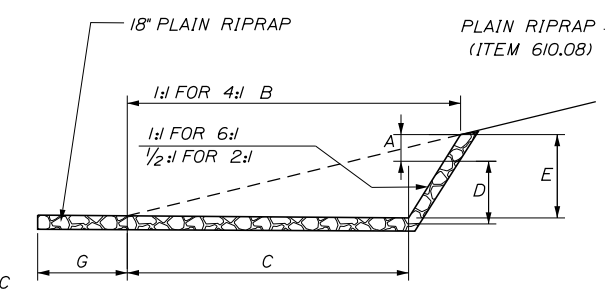
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71

DIMENSIONS FOR SLOPE OF 4:1

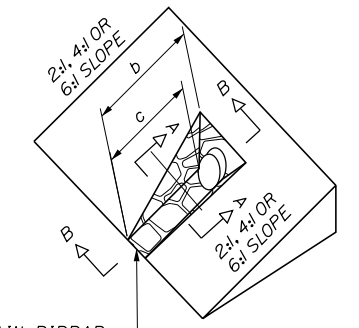
D	A (FT)	B (FT)	C (FT)	E (FT)	F (FT)	G (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58



SECTION A-A

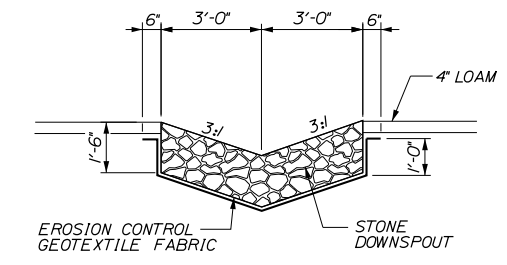


SECTION B-B



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

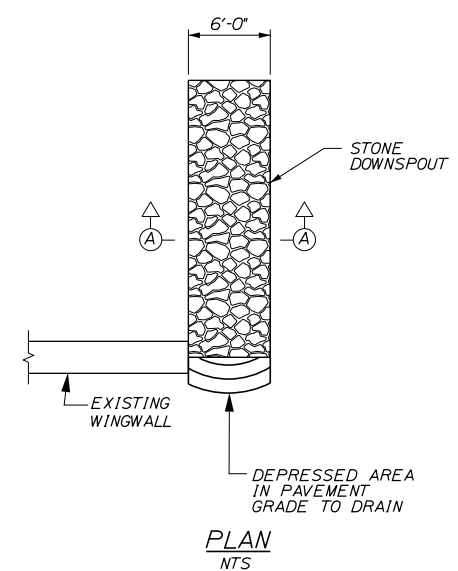
ROADWAY CULVERT END SLOPE TREATMENT
N.T.S



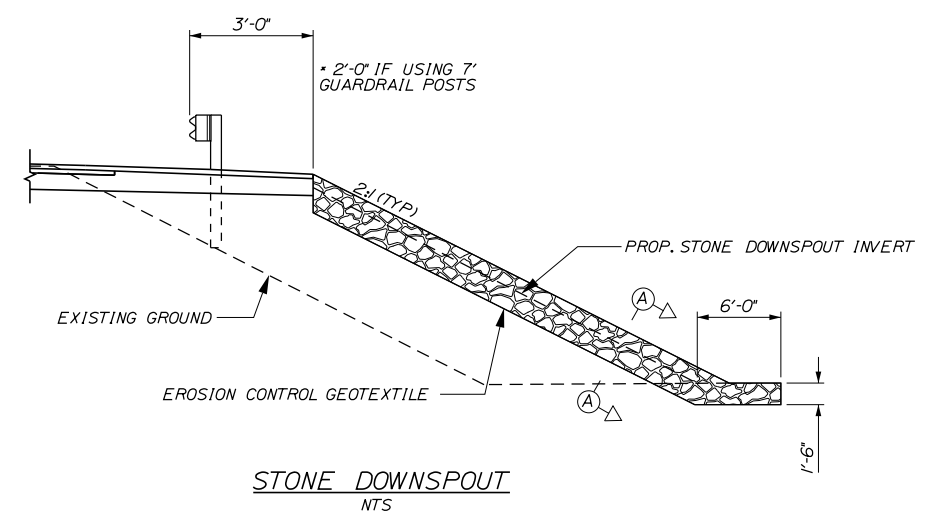
SECTION A-A
NTS

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

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



PLAN
NTS



STONE DOWNSPOUT
NTS

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date	By	Date	
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

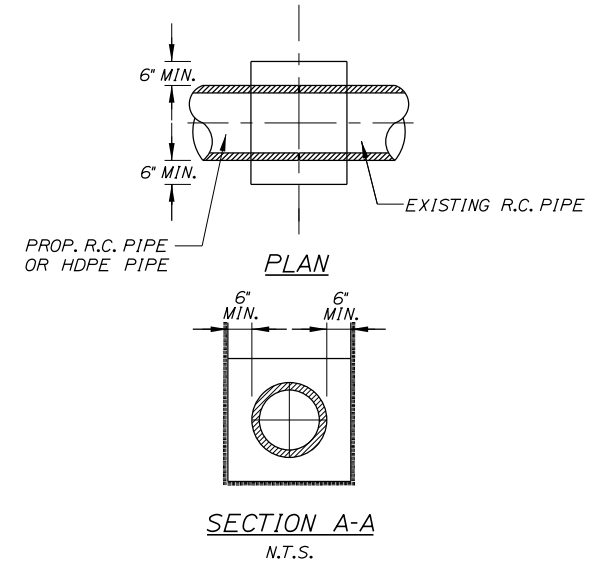
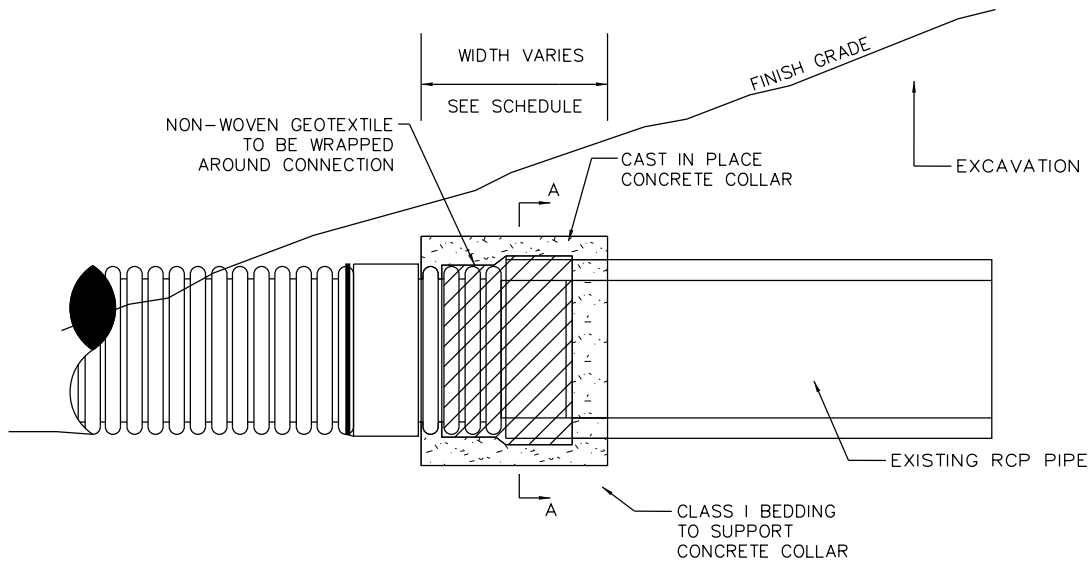
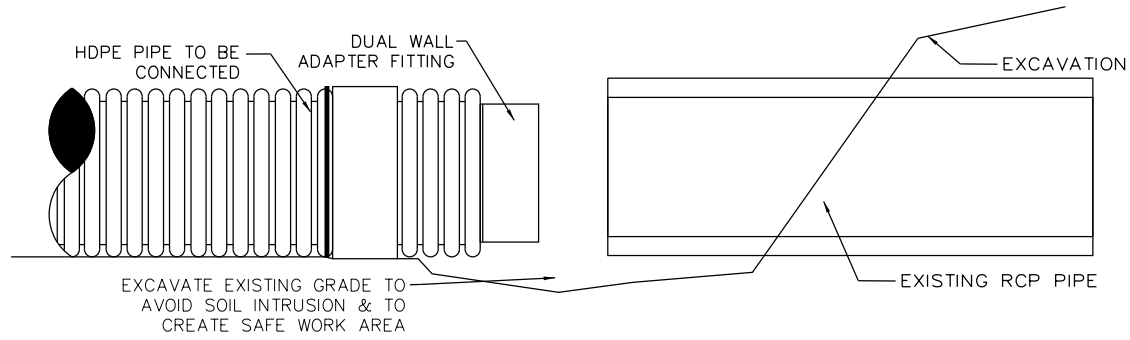
MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS
DRAINAGE DETAILS
1 OF 2

SHEET NUMBER: P-1
CONTRACT: 2018.12
15 OF 27

Filename: ... \015_Drainage_Details_1.dgn

Date: 3/29/2018



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

NOTES:

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

Filename: ... \016_Drainage_Details_2.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Jim Ferguson					
	By	Date		By	Date
Designed	JRH	3/2018	Checked	JRH	3/2018
Drawn	JTR	3/2018	In Charge of	JOF	3/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

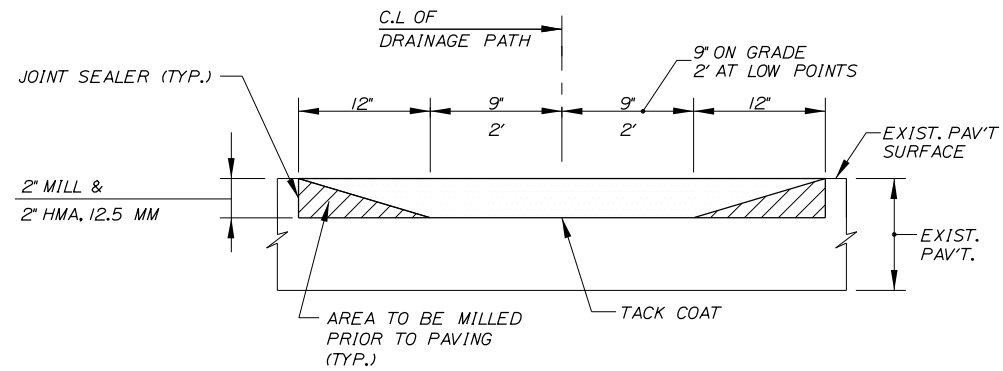
DRAINAGE DETAILS
2 OF 2

SHEET NUMBER: P-2
CONTRACT: 2018.12
16 OF 27

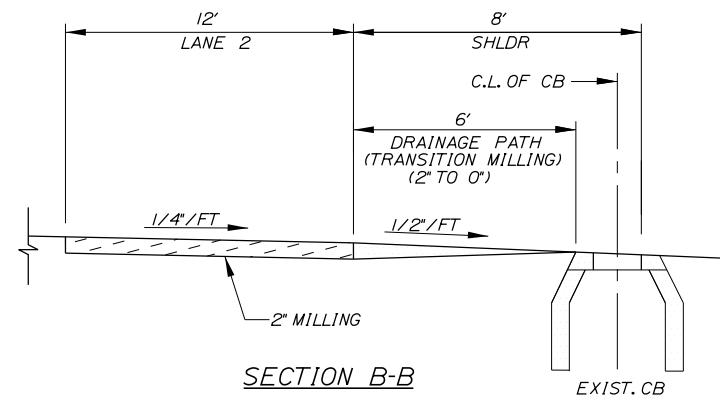
Date: 3/29/2018

Filename: ...:\017_Drainage Path Details.dgn

MM 74.9 TO MM 79.8			
STA.	LOW POINT STA	HIGH POINT STA.	REMARKS
	3844+35	3822+50	
	3866+60	3855+63	
	3930+79	3894+09	
	3997+23.5	3951+59	

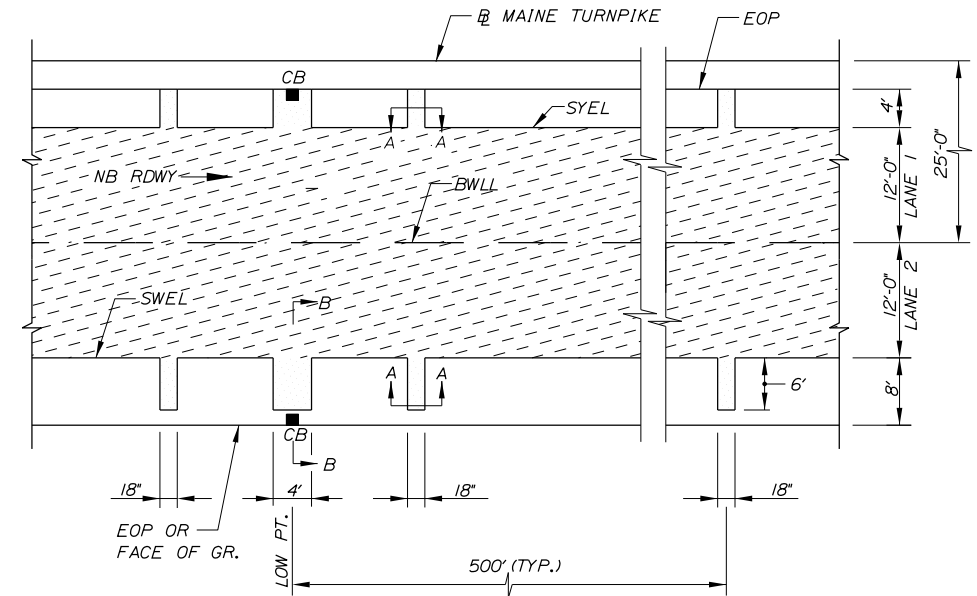


SECTION A-A

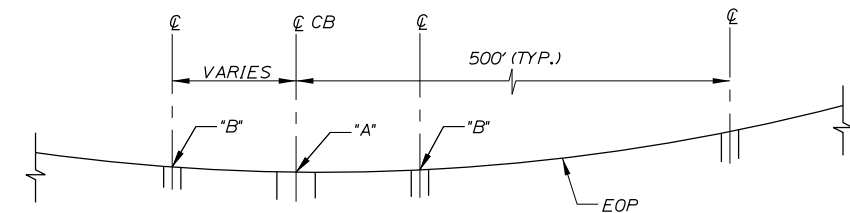


SECTION B-B

DRAINAGE PATH DETAILS



PLAN VIEW



PROFILE

LEGEND

- = DRAINAGE PATH MILLING
- = TRAVEL LANE MILLING

NOTES:

1. POINT "B" IS 1" HIGHER THAN POINT "A".
2. LOW/HIGH POINT STATIONING IS SHOWN IN SCHEDULES ABOVE.
3. DRAINAGE PATH REQUIRED AT ALL LOW POINTS.

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TY-LIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Jim Ferguson					
	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	SPA	1/2018	In Charge of	JOF	3/2018

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

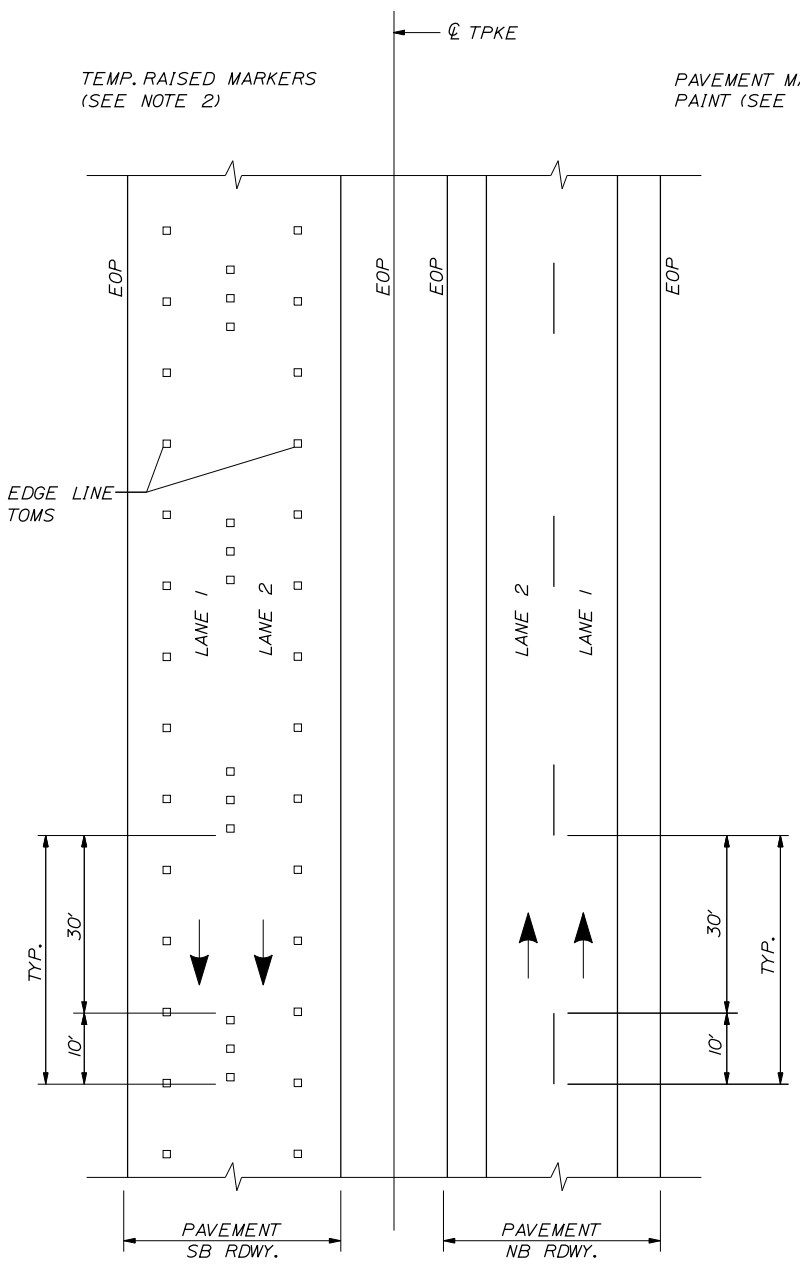
PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

DRAINAGE PATH DETAILS

SHEET NUMBER: P-3
CONTRACT: 2018.12
17 OF 27

Date: 3/29/2018

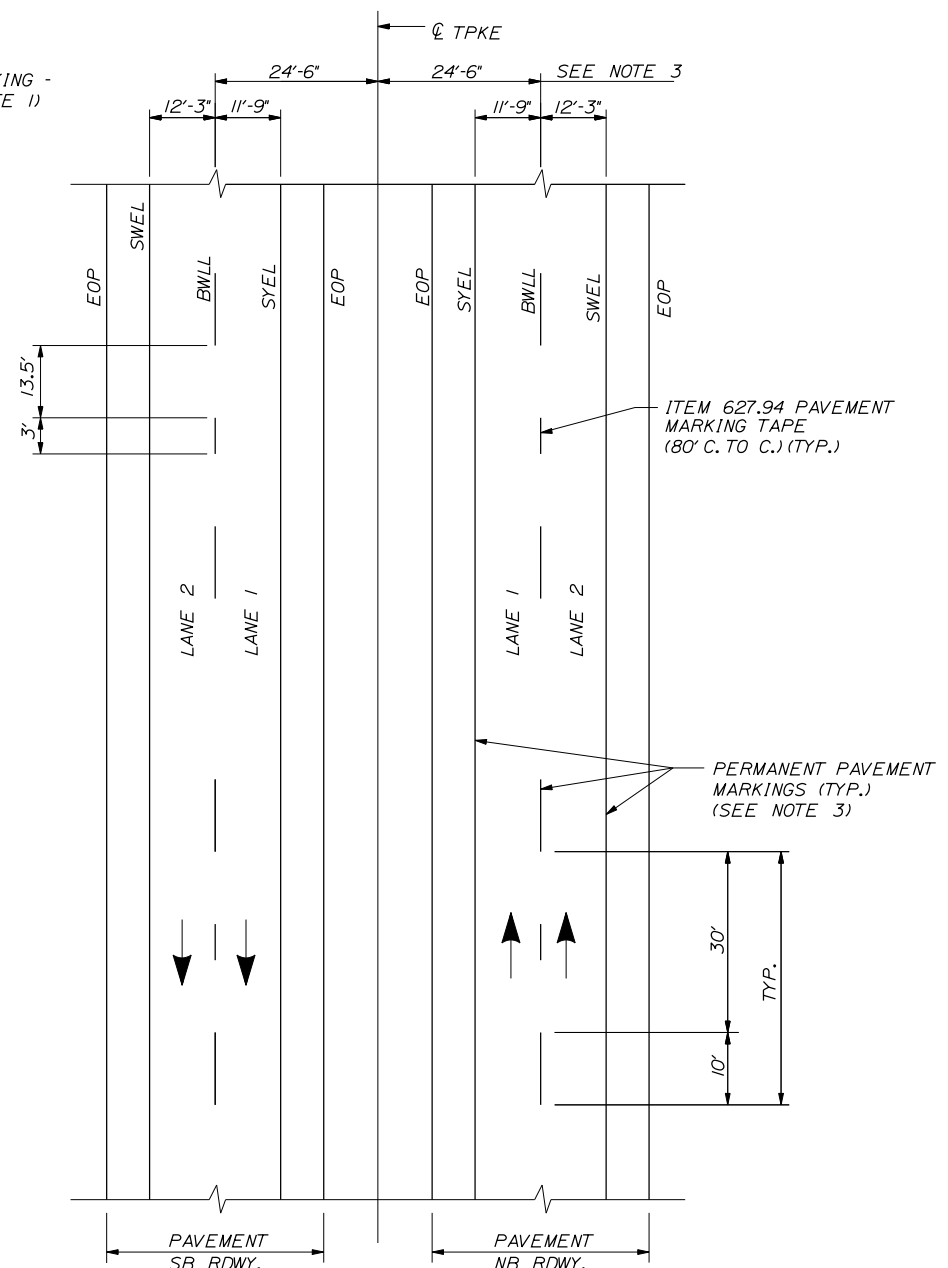
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**TEMP. PAVEMENT MARKINGS
2 LANE ROADWAY**

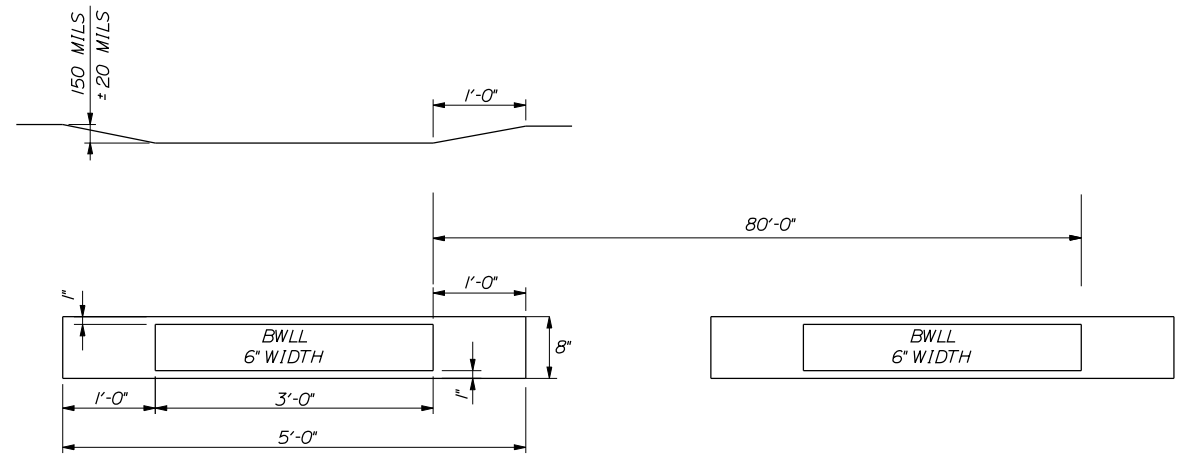
NOTES:

- TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT SHALL BE 6" SOLID WHITE, BROKEN WHITE, AND SOLID YELLOW PAINT LINES.
- TEMPORARY PAVEMENT MARKINGS ON NEW HMA 12.5MM, OR SHIM MATERIAL, SHALL BE TEMPORARY RAISED PAVEMENT MARKERS. "SOLID" WHITE AND "SOLID" YELLOW LANE LINES SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED AT 10'-0" C. TO C. "BROKEN" WHITE LANE LINES SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED 5'-0" C. TO C. EVERY 40'-0". TEMPORARY 6" PAVING MARKING TAPE SHALL BE USED ON RADII ON SURFACE PAVEMENT. A 3' PIECE EVERY 40'.



**PERMANENT PAVEMENT MARKINGS
2 LANE ROADWAY**

PERMANENT PAVEMENT MARKINGS (TYP.) (SEE NOTE 3)



**ITEM 627.94
PERMANENT PAVEMENT
MARKINGS WITH TAPE
GROOVING DETAIL
N.T.S.**

LEGEND

- SYEL = SOLID YELLOW EDGE LINE (6" PAINT)
- SWEL = SOLID WHITE EDGE LINE (6" PAINT)
- BWLL = BROKEN WHITE LANE LINE (6" PAINT)
- EOP = EDGE OF PAVEMENT

NOTES:

- PERMANENT PAVEMENT MARKINGS SHALL BE 6" WIDE LINES.
- PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED ON BOTH ROADWAYS.
- THE OFFSET DISTANCE SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.
- ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO INSTALLATION OF ITEM 627.94 PAVEMENT MARKING TAPE AND SHALL BE INCIDENTAL TO INSTALLATION OF THE TAPE.
- ON DECELERATION RAMP, THE DWLL SHALL BEGIN AT THE BEGINNING OF THE FULL WIDTH DECELERATION LANE AND EXTEND TO THE THEORETICAL GORE MARKINGS.
- ITEM 627.94 PAVEMENT MARKING TAPE FOR DWLL SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date	By	Date	
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

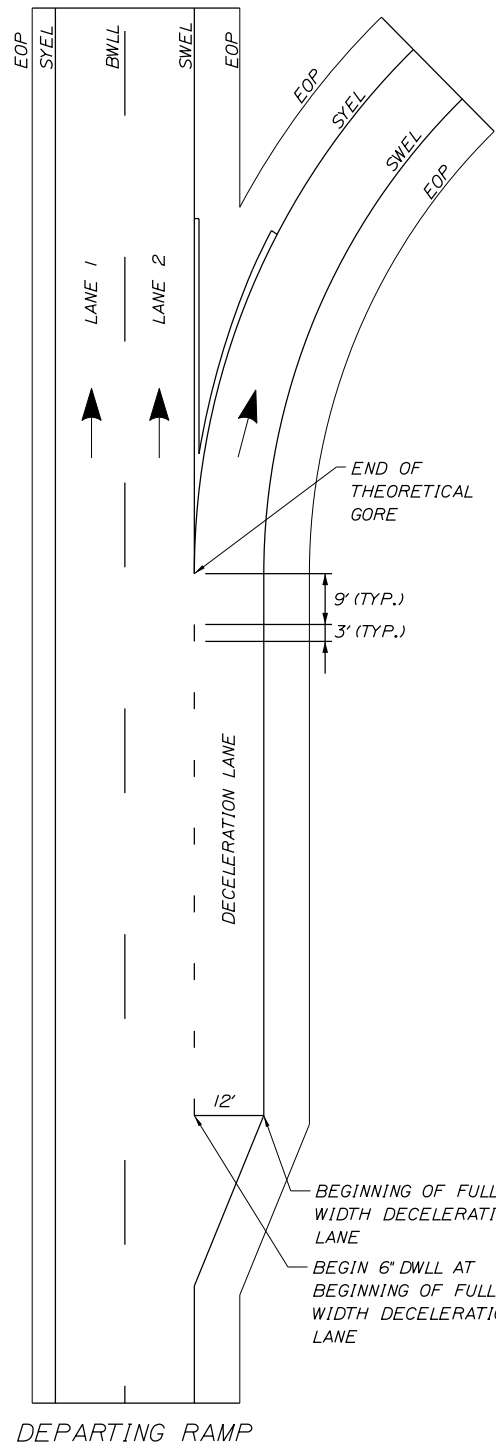
MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

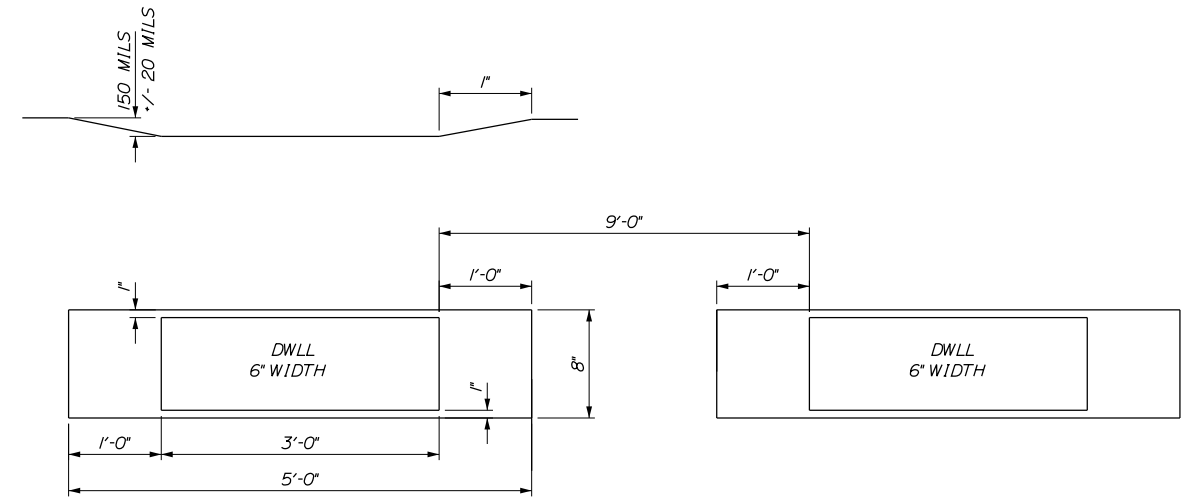
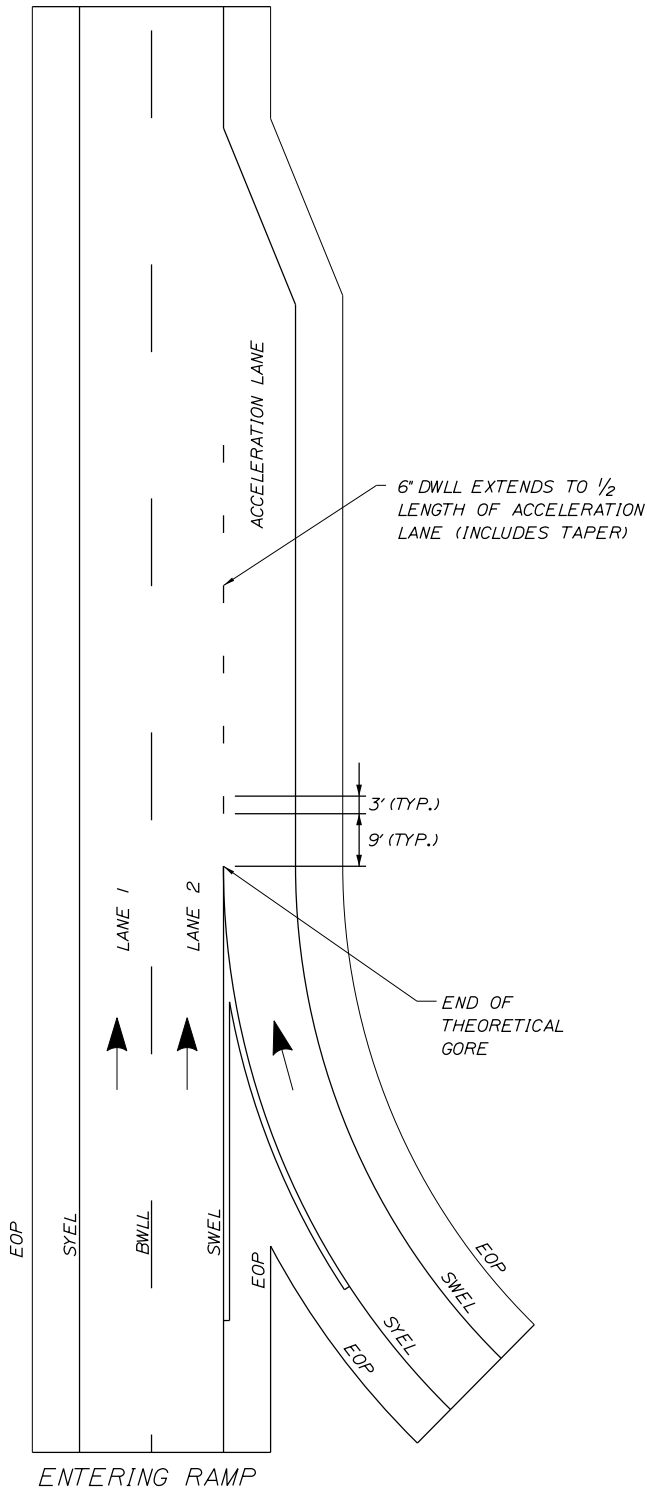
STRIPING DETAILS
1 OF 2

SHEET NUMBER: P-4
CONTRACT: 2018.12
18 OF 27

Date: 3/29/2018



PERMANENT PAVEMENT MARKINGS WITH TAPE
(ITEM 627.941 PAVEMENT MARKING TAPE)



ITEM 627.941
DWLL PERMANENT PAVEMENT MARKINGS WITH TAPE
GROOVING DETAIL
NTS

ITEM 627.941 - PAVEMENT MARKING TAPE - DWLL INSTALLATION LOCATIONS

LOCATION	LANE TYPE	BEGIN (STA)	END (STA)	LENGTH (LF)	LENGTH OF TAPE (LF)
EXIT 75	NB OFF RAMP	3783+56	3791+49	793	198.3
EXIT 75	NB ON RAMP	3810+34	3814+20	386	96.5
EXIT 75	SB ON RAMP	3780+00	3782+96	296	74.0
EXIT 75	SB OFF RAMP	3798+62	3805+88	726	181.5
TOTAL					550.3

LEGEND

- SYEL = SOLID YELLOW EDGE LINE (6" PAINT)
- SWEL = SOLID WHITE EDGE LINE (6" PAINT)
- BWLL = BROKEN WHITE LANE LINE (6" PAINT)
- EOP = EDGE OF PAVEMENT

NOTES:

1. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO INSTALLATION OF ITEM 627.941 PAVEMENT MARKING TAPE AND SHALL BE INCIDENTAL TO INSTALLATION OF THE TAPE.
2. ON DEPARTING RAMPS, THE DWLL SHALL BEGIN AT THE BEGINNING OF THE FULL WIDTH DECELERATION LANE AND EXTEND TO THE THEORETICAL GORE MARKINGS.
3. ON ENTERING RAMPS, THE DWLL SHALL BEGIN AT THE END OF THE THEORETICAL GORE MARKINGS AND SHALL EXTEND HALF THE TOTAL LENGTH OF THE RAMP INCLUDING THE TAPER.
4. ITEM 627.941 PAVEMENT MARKING TAPE FOR DWLL SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.
5. CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF THE TAPE. ANY CHANGES TO INSTALLATION PROCEDURES SHALL BE APPROVED THE RESIDENT ENGINEER.

Filename: ... \019_stripping_details_2.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

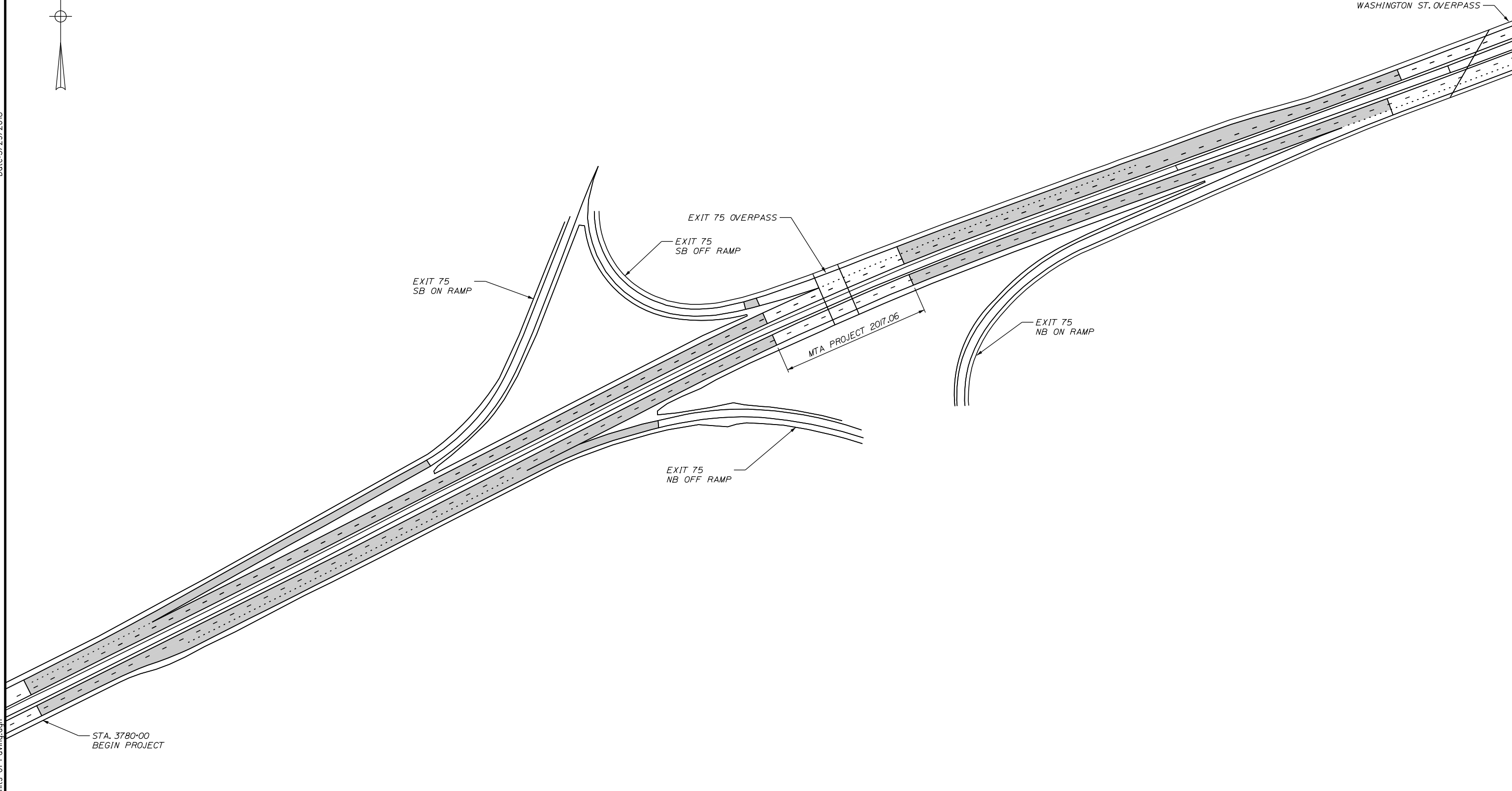
MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

STRIPING DETAILS
2 OF 2

SHEET NUMBER: P-5
CONTRACT: 2018.12
19 OF 27

Date: 3/29/2018



Filename: ... \020_Exit75_Limits of Paving.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	8/2017	Checked	JRH	2/2018
Drawn	JTR	8/2017	In Charge of	JOF	3/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

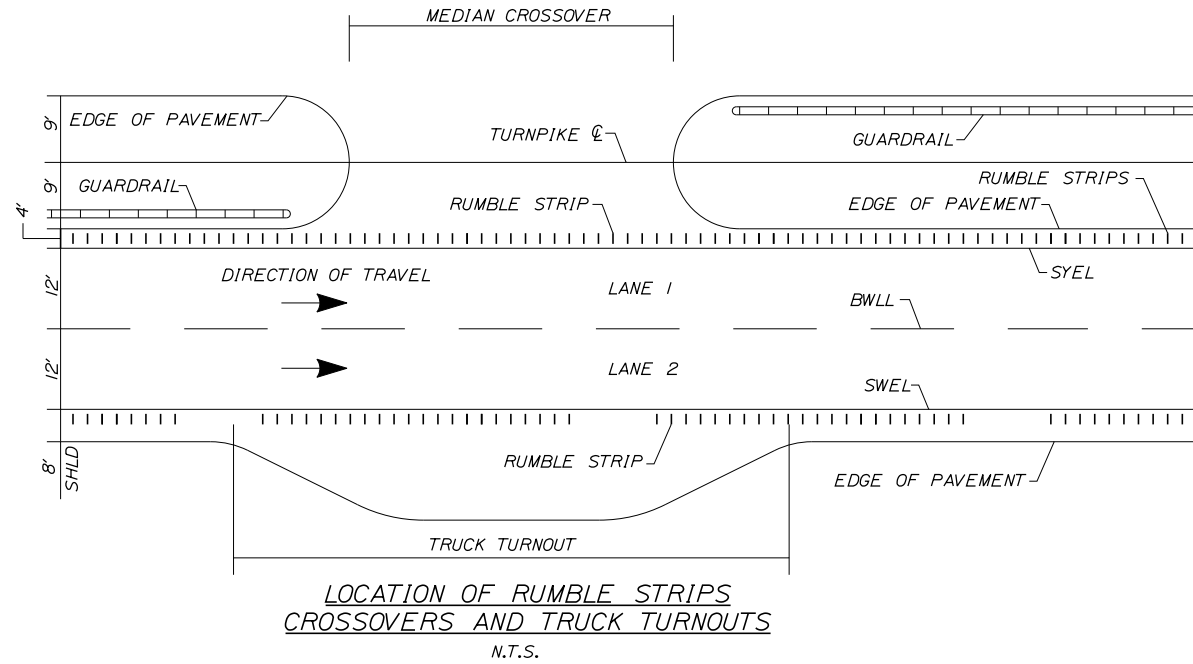
EXIT 75 LIMITS OF PAVING DETAILS

SHEET NUMBER: P-6

CONTRACT: 2018.12

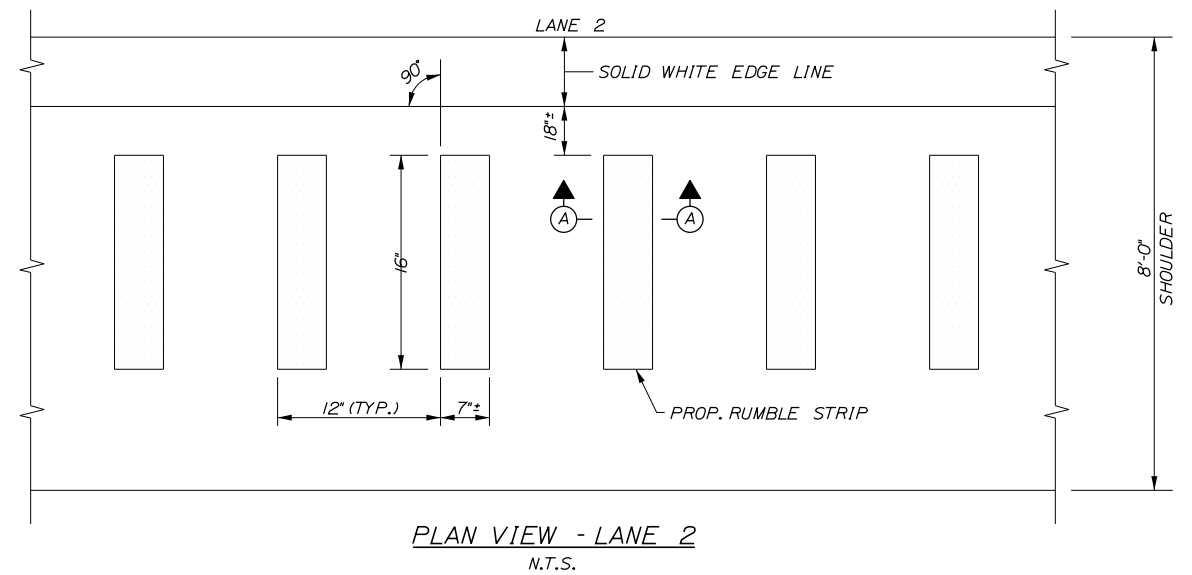
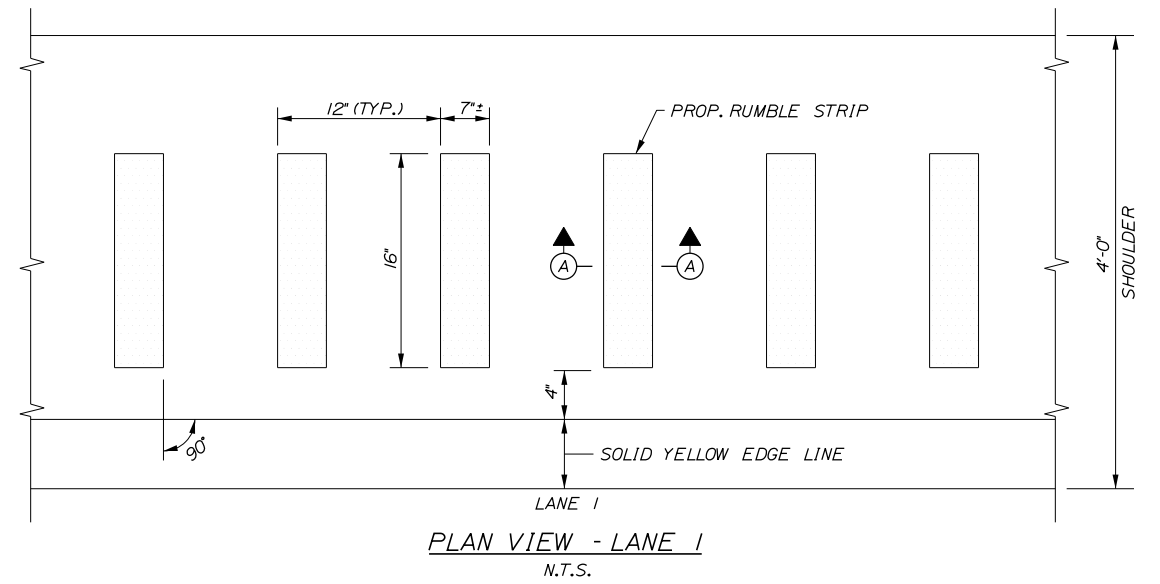
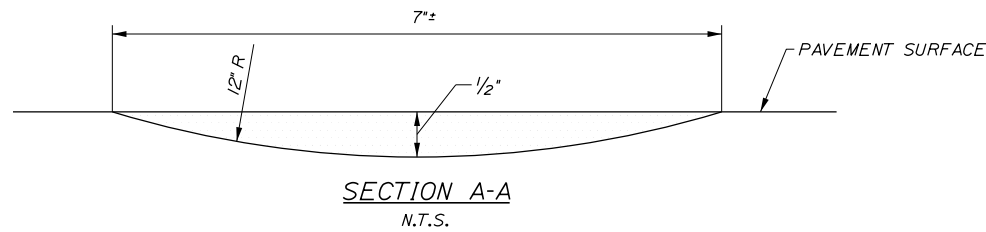
20 OF 27

Date: 3/29/2018



NOTES:

1. INSTALL LANE 2 RUMBLE STRIPS WITH A 20' GAP EVERY 100'. (I.E. 80' OF RUMBLE STRIP AND 20' OF NO RUMBLE STRIP; REPEAT...)
2. LANE 1 RUMBLE STRIPS NEEDED FROM SB MM 79.8 TO MM 80.7
3. LANE 2 RUMBLE STRIPS NEEDED FROM NB MM 79.8 TO MM 80.7



RUMBLE STRIP DETAILS

Filename: ...021_rumble_strip_details.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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THE GOLD STAR
MEMORIAL HIGHWAY

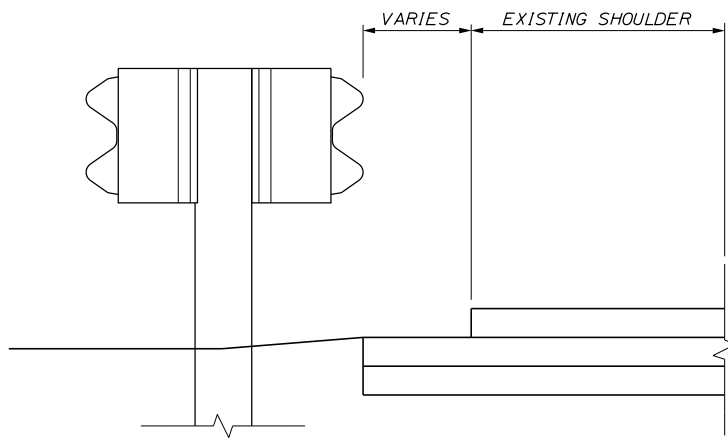
MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

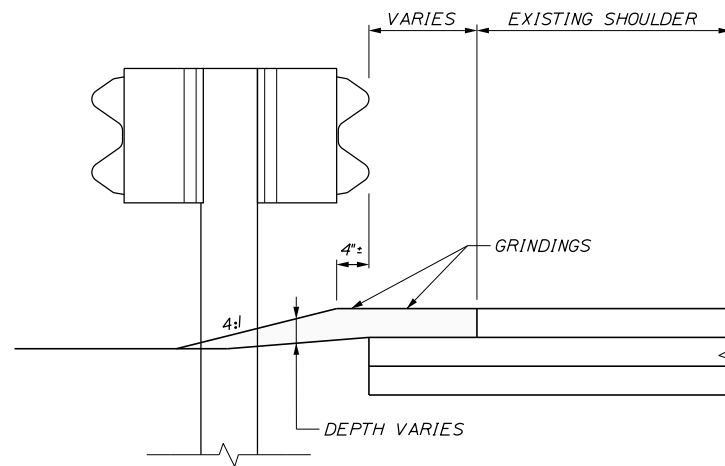
RUMBLE STRIP DETAILS

SHEET NUMBER: P-7
CONTRACT: 2018.12
21 OF 27

Date: 3/29/2018

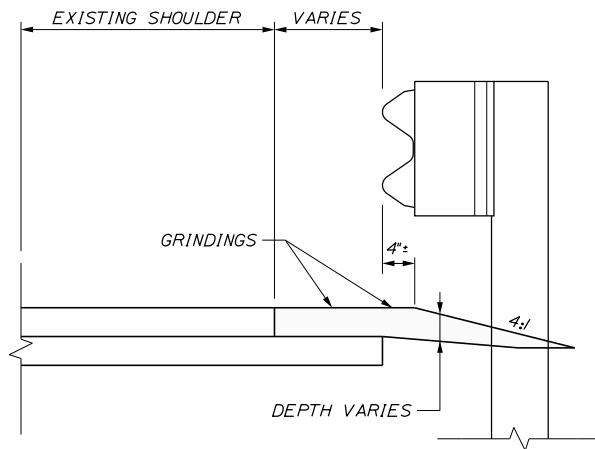


EXISTING SECTION

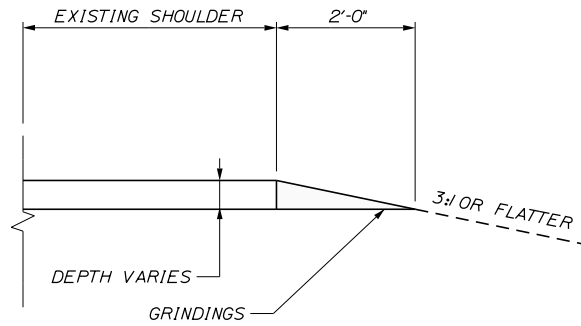


PROPOSED SECTION

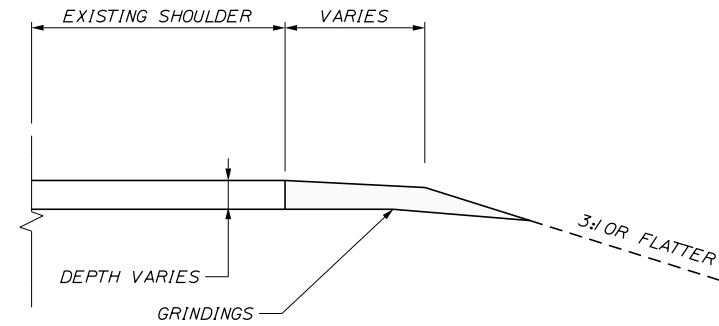
BERM DROPOFF CORRECTION WITH GUARDRAIL
MEDIAN GUARDRAIL
NOT TO SCALE



BERM DROPOFF CORRECTION WITH GUARDRAIL
RIGHT OUTSIDE SHOULDER
NOT TO SCALE



BERM DROPOFF CORRECTION WITHOUT GUARDRAIL
NOT TO SCALE



NOTES:

1. BERM DROPOFF CORRECTION WILL BE PLACED AT ALL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE RESIDENT.
2. LEFT AND RIGHT ARE SPECIFIC TO WHETHER TRAVELING NB OR SB.
3. BERM DROP OFF CORRECTION OF 3" OR MORE SHALL BE PLACED PRIOR TO SHIFTING TRAFFIC TO THE LANE ADJACENT TO THE SHOULDER REQUIRING CORRECTION.

Filename: ... \MSTA\022_berm_corr_details.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Jim Ferguson					
	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

BERM DROPOFF
CORRECTION DETAILS

CONTRACT: 2018.12

SHEET NUMBER: P-8

22 OF 27

GUARDRAIL EARTHWORK AND PAVEMENT REPAIR NOTES

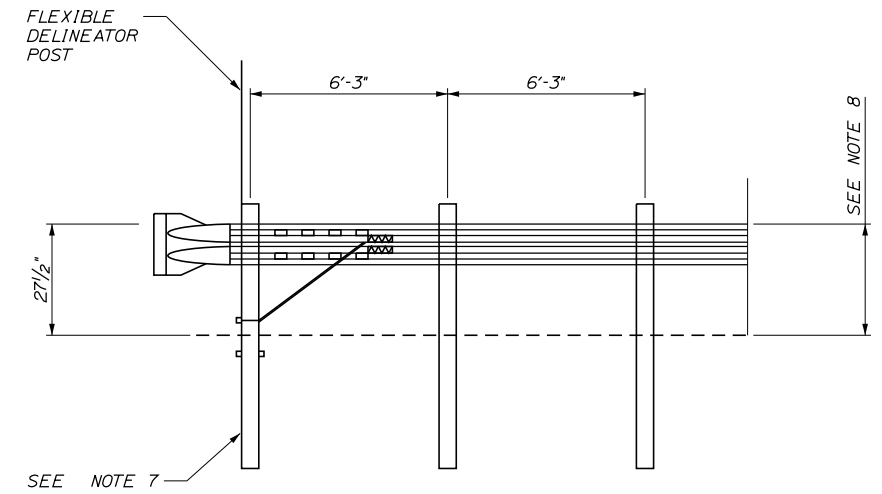
- ALL EARTHWORK AND PAVEMENT REPAIRS ASSOCIATED WITH GUARDRAIL INSTALLATIONS AND/OR MODIFICATIONS FOR THIS CONTRACT SHALL BE INCIDENTAL TO THE GUARDRAIL ITEMS UNLESS OTHERWISE NOTED.
- ALL DISTURBED AREAS DUE TO THE WORK PERFORMED UNDER THIS CONTRACT FOR GUARDRAIL REPAIRS, MODIFICATION AND/OR INSTALLATIONS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION. GRASSED AREAS SHALL RECEIVE 4" OF LOAM, SEED, FERTILIZER AND MULCH. IN PAVED AREAS, SUBBASE GRAVEL SHALL BE REPLACED AND RECOMPACTED WITH MAINE DOT TYPE-D GRAVEL AND HOT MIX ASPHALT TO A THICKNESS TO MATCH SURROUNDING PAVEMENT.
- COMPACTION OF EARTH AND/OR SUBBASE GRAVEL AROUND GUARDRAIL POSTS DISTURBED DURING THE WORK IS REQUIRED. ALL POSTS SHALL BE PLUMB AFTER COMPACTION.
- EXCAVATION NECESSARY TO MAINTAIN DRAINAGE WAYS OUTSIDE OF THE FLEAT 350 WIDENING OR THE SHOULDER WIDENING WORK AREA SHALL BE PAID FOR UNDER ITEM 631.12 ALL PURPOSE EXCAVATOR AS APPROVED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL SHALL BE USED TO GRADE ANY PROPOSED SLOPE AREA OUTSIDE OF 1:1 SLOPE LIMIT OR USED TO FLATTEN SLOPES OUTSIDE THE WORK AREA AS APPROVED BY THE RESIDENT. PLACEMENT AND COMPACTION OF THE EXCAVATED MATERIAL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
- ANY COMMON BORROW NECESSARY TO CONSTRUCT SHOULDER WIDENING SHALL COME FROM EXCAVATION WITHIN PROJECT LIMITS AND NO SEPARATE PAYMENT WILL BE MADE.
- SLOPES CONSTRUCTED FROM THE ABOVE NOTED EXCAVATED MATERIAL SHALL BE LOAMED, SEEDED AND MULCHED. LOAM, SEED AND MULCH WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCIDENTAL TO ITEM 606.754.
- SLOPES CONSTRUCTED FOR ITEM 205.511 SHALL BE 3:1 WITHIN 50 FEET OF THE TERMINAL END AND CAN BE 2:1 IN ALL OTHER AREAS.
- IF LEDGE IS ENCOUNTERED DURING EXCAVATION AND IF APPROVED BY THE RESIDENT, AN 18" UNDERDRAIN - TYPE C WRAPPED IN GEOTEXTILE, MAY BE INSTALLED IN THE EXISTING DITCH LINE TO MAINTAIN DRAINAGE WITH RIPRAP OUTLETS. THE ENDS SHALL BE CUT AND THE SLOPE GRADED TO CREATE A 4:1 SLOPE AT BOTH THE ENTERING AND EXITING ENDS OF THE PIPE. ALL WORK AND ITEMS REQUIRED TO INSTALL THE PIPE SHALL BE INCIDENTAL TO THE ITEM 606.754.

GUARDRAIL INSTALLATION AND MODIFICATION NOTES

- THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION AND/OR MODIFICATION OF ANY AND ALL GUARDRAIL COMPONENTS TO BE INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IF THE CONTRACTOR DISCOVERS CONFLICTS OR IRREGULARITIES OF ANY SORT BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS IN ALL WORK AREAS AT THE END OF EACH DAY. THE CONTRACTOR SHALL ENSURE THAT ENOUGH TIME EXISTS IN THE WORK DAY TO COMPLETE ALL MODIFICATIONS AND/OR INSTALLATIONS TO END TERMINALS. THE CONTRACTOR SHALL ENSURE THAT ALL PARTS AND MANPOWER ARE ON-SITE PRIOR TO UNDERTAKING ANY GUARDRAIL MODIFICATIONS.
- GUARDRAIL HEIGHT SHALL BE INSTALLED OR ADJUSTED TO 30" ± 0", -1/2" HEIGHT. GUARDRAIL HEIGHT SHALL BE MEASURED FROM THE EDGE OF PAVEMENT WHEN WITHIN 2 FEET. IF GUARDRAIL IS OFFSET FROM EDGE OF PAVEMENT GREATER THAN 2 FEET, THEN HEIGHT OF RAIL SHALL BE MEASURED AT GROUND ELEVATION ADJACENT TO EACH POST BELOW THE RAIL TO THE TOP OF GUARDRAIL AND AFTER FINAL GRADING OF SHOULDER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARDED PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING GUARDRAIL MODIFICATIONS AND/OR INSTALLATIONS.
- CONNECTIONS FOR PROPOSED RAIL TO EXISTING RAIL SHALL BE INCIDENTAL TO THE INSTALLATION OF PROPOSED GUARDRAIL.
- FLEAT 350 TERMINALS INSTALLED UNDER THIS CONTRACT SHALL BE INSTALLED AT A HEIGHT OF 27.5" AT THE TERMINAL HEAD AND TRANSITIONING UP TO THE REQUIRED HEIGHT OF RAIL OF 30" ± 0", -1/2" OVER A 25 LINEAR FOOT LENGTH. HEIGHT OF FLEAT 350 RAIL SHALL BE MEASURED FROM THE GROUND ELEVATION UNDER THE FLEAT RAIL PANELS TO THE TOP OF THE RAIL.
- SOIL ANCHOR TUBES INSTALLED AS PART OF CAT, FLEAT OR TRAILING TERMINAL ENDS SHALL NOT PROTRUDE FROM THE GROUND MORE THAN 3 1/2". 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.
- TRANSITION RAIL HEIGHT ON TERMINAL END-ANCHORED ENDS FROM 27 1/2" AT THE END OF THE RAIL TO 30" HEIGHT OVER A 25 LINEAR FOOT LENGTH.
- A CAT SYSTEM AND REQUIRED TRANSITION SECTION IS 43.75 FEET PLUS THE 25 FEET OF TYPE 3d DOUBLE RAIL. THIS 68.75 FEET OF RAIL AND SYSTEM SHALL BE IN A CONTINUOUS TANGENT LINE.
- ALL DAMAGE TO GUARDRAIL COMPONENTS RESULTING FROM ADJUSTMENTS MADE TO THE GUARDRAIL SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE AUTHORITY.
- ALL SALVAGEABLE GUARDRAIL BEAM AND POSTS FROM REMOVED GUARDRAIL SHALL BE STACKED AT THE HACKETT ROAD MAINTENANCE YARD AT MM 76.9. THE CONTRACTOR SHALL DISPOSE OF ALL UNSALVAGABLE COMPONENTS INCLUDING ALL OFFSET BLOCKS, BOLTS, AND OTHER HARDWARE.

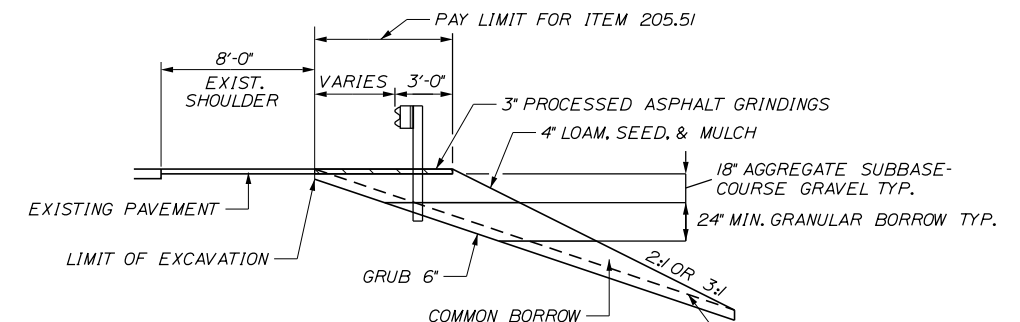
EROSION

- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL DISTURBED 2:1 SLOPES, IN THE FLOW LINE OF ALL DISTURBED DITCHES AFTER LOAM AND SEED HAVE BEEN INSTALLED, AND/OR AS DIRECTED BY THE RESIDENT AND SHALL BE INCIDENTAL TO ITEM 606.754.



**TERMINAL END - ANCHORED END
(ITEM 606.278)**

N.T.S.



SHOULDER WIDENING DETAIL - ITEM 205.511


Date: 3/29/2018

Filename: ... \MSTA\023_CR_General_Notes.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: TY-LIN INTERNATIONAL			
CONSULTANT PROJECT MANAGER: Jim Ferguson			
	By	Date	
Designed	JRH	1/2018	Checked JRH 2/2018
Drawn	PJB	1/2018	In Charge of JOF 3/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

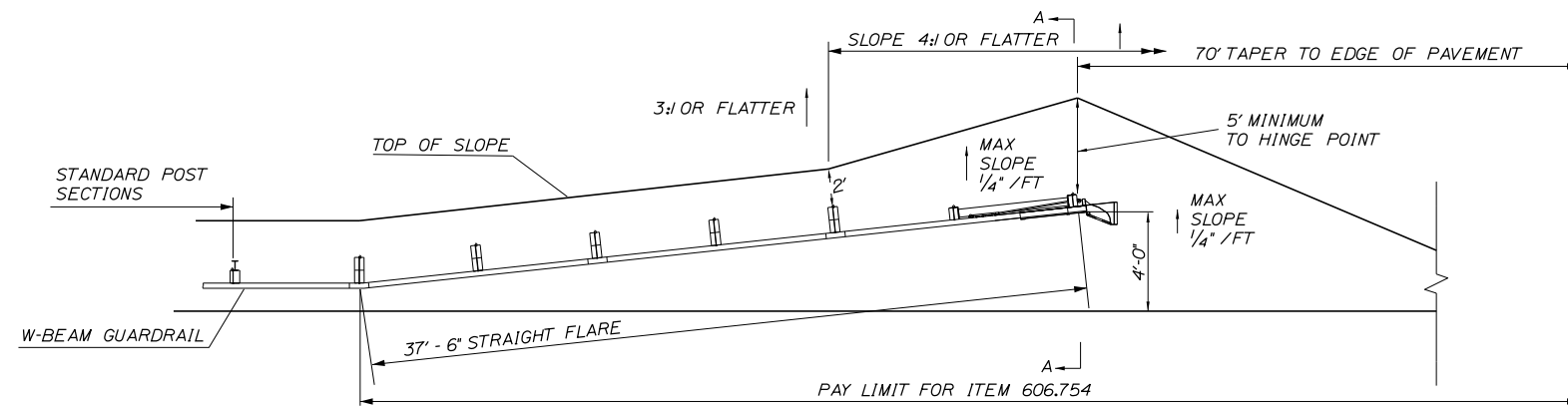
MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

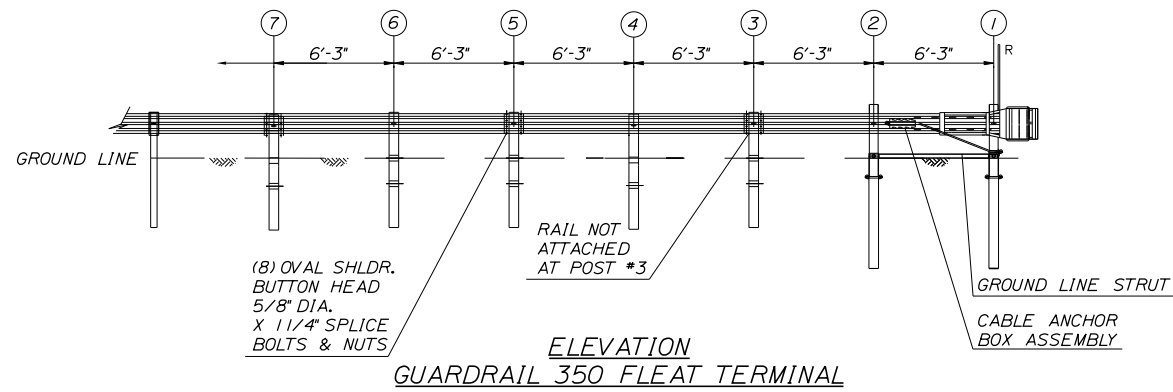
GUARDRAIL GENERAL NOTES

SHEET NUMBER: G-1
CONTRACT: 2018.12
23 OF 27

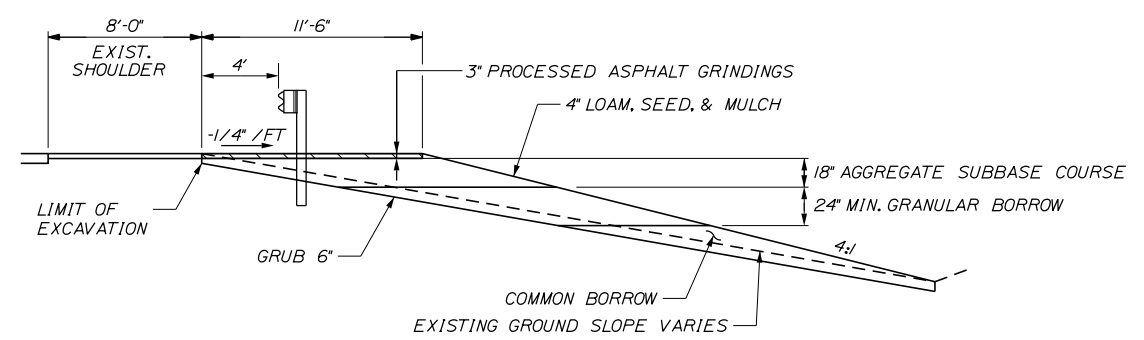
Date: 3/29/2018



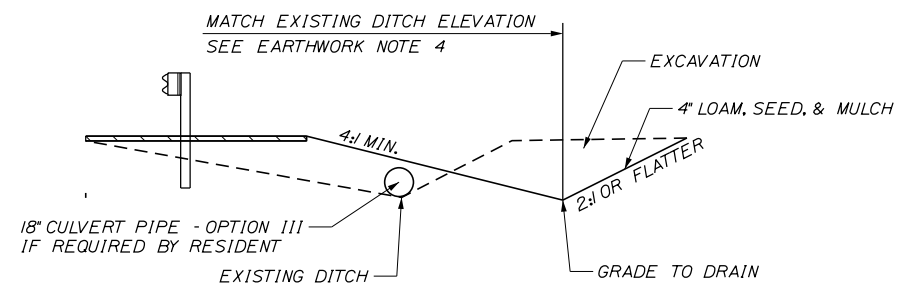
WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL - ITEM 606.754
PLAN



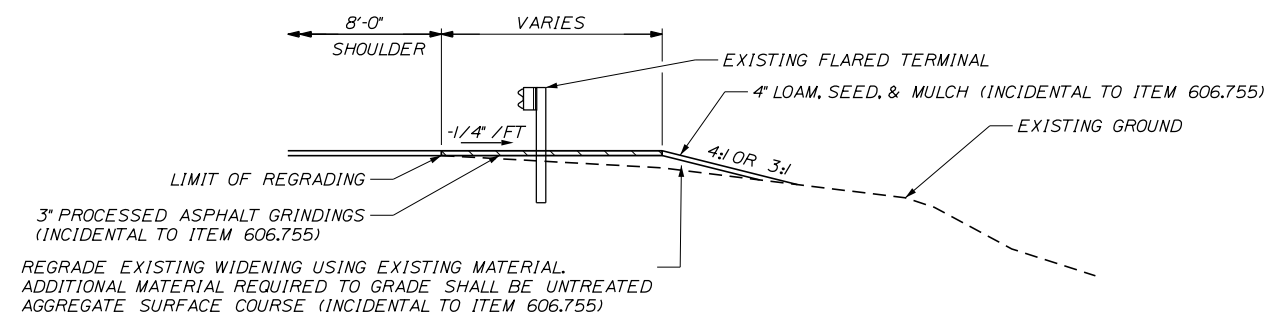
ELEVATION
GUARDRAIL 350 FLARED TERMINAL



SECTION A-A
DITCH FILL DETAIL



SECTION A-A
DITCH CUT DETAIL



MODIFY WIDENED SHOULDER FOR GUARDRAIL
350 FLARED TERMINAL - ITEM 606.755

Filename: ...\\024_GR Widening_Details.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date	By	Date	
Designed	JRH	1/2018	Checked	JRH	2/2018
Drawn	PJB	1/2018	In Charge of	JOF	3/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

GUARDRAIL WIDENING DETAILS

SHEET NUMBER: G-2
CONTRACT: 2018.12
24 OF 27

NORTHBOUND SCHEDULE OF OUTSIDE SHOULDER GUARDRAIL LIMITS

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 606.178 GUARDRAIL BEAM	ITEM 606.24 GUARDRAIL TYPE 3D - SINGLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END - ANCHORED END	ITEM 606.353 DELINEATOR POST	ITEM 606.355 DELINEATOR POST - REMOVE AND STACK	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.754 WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.755 MODIFY WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.80 GUARDRAIL FLEAT 350 FLARED TERMINAL	ITEM 205.51 WIDENING OF EXISTING SHOULDER						DESCRIPTION OF WORK
		EXISTING		PROPOSED														LEADING END			TRAILING END			
		APPROX. STATION	APPROX. STATION OF TERMINAL END OF ENDPOST	STATION LEADING END	STATION TRAILING END													BEGIN STATION	END STATION	QUANTITY	BEGIN STATION	END STATION	QUANTITY	
74.9		3780-00	3783-30	3780-00	3783-30	250.0																		
75.2		3795-58	3798-74	3795-58	3798-74				2	2	312.5			1		1								
75.3		3799-32	3805-60	3799-32	3805-60	200.0		1	1	1	1	625.0												
75.5		3810-67	3812-77	3810-67	3812-77	12.5						212.5		1										
75.6		3819-30	3828-41	3819-30	3828-41							912.5												
76.0		3838-69	3843-58	3838-69	3843-58	87.5		1	1	1	1	487.5			1									
76.2		3849-00	3852-10	3849-00	3852-72.5	12.5	50.0	1	1	1	1	312.5			1				3852-22.5	3852-72.5	50.0			
76.5		3863-58	3869-00	3863-58	3869-00	25.0						537.5			1									
76.9		3883-03	3884-95	3883-03	3884-95							187.5												
77.3		3909-02	3911-18	3909-02	3911-18										1									
77.5		3919-86	3922-75	3919-86	3922-75	12.5		1	1	1	1	287.5			1									
77.8		3933-31	3960-84	3933-31	3960-84	100.0		1	1	1	1	2750.0	2	2										
78.5		3970-35	3972-60	3970-35	3972-60	25.0						225.0			1									
78.6		3977-05	3984-56	3977-05	3984-56					2	2	750.0			1		1							
78.9		3993-71	4006-57	3993-71	4006-57	75.0		1	1	1	1	1250.0												
79.2		4008-34	4015-08	4008-34	4015-08							675.0			1									
79.4		4017-04	4025-59	4017-04	4025-59	87.5						850.0												
79.6		4027-38	4031-32	4027-38	4031-32			1	1	1	1	375.0												
79.7		4033-49	4036-00	4033-49	4036-00	62.5									1							1 NEW RAIL IN FLEAT 350		
						TOTAL	950.0	50.0	7	7	11	11	10750.0	2	2	3	9	2				50.0		
						UNIT	LF	LF	EA	EA	EA	EA	LF	EA	EA	EA	EA	EA					LF	

GENERAL NOTES:

- APPROXIMATE STATION IS THE LEADING END OR TRAILING END OF THE EXISTING GUARDRAIL OR FLEAT.
- FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- REPAIR DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
- REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS AS PER SECTION 606 GUARDRAIL DELINEATOR POST.
- INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:

- ADJUST ALL GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT.
- REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	PJB	2/2018
Drawn	SPA	1/2018	In Charge of	JOF	3/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS

GUARDRAIL LIMITS NORTHBOUND

SHEET NUMBER: G-3

CONTRACT: 2018.12

25 OF 27

Date: 3/29/2018

Filename: ... \MSTA\025_CR-Schedule_NB.dgn

SOUTHBOUND SCHEDULE OF OUTSIDE SHOULDER GUARDRAIL LIMITS

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 606.178 GUARDRAIL BEAM	ITEM 606.24 GUARDRAIL TYPE 3D - SINGLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END - ANCHORED END	ITEM 606.353 DELINEATOR POST	ITEM 606.355 DELINEATOR POST - REMOVE AND STACK	ITEM 606.362 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.754 WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.755 MODIFY WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.80 GUARDRAIL FLEAT 350 FLARED TERMINAL	ITEM 205.51 WIDENING OF EXISTING SHOULDER						DESCRIPTION OF WORK
		EXISTING		PROPOSED														LEADING END			TRAILING END			
		APPROX. STATION	APPROX. STATION OF TERMINAL END OF ENDPPOST	STATION LEADING END	STATION TRAILING END													BEGIN STATION	END STATION	QUANTITY	BEGIN STATION	END STATION	QUANTITY	
74.9		3783+69	3780+00	3783+69	3780+00																			
75.2		3798+62	3797+87	3798+62	3797+87			/	/	/	/	75.0												
75.3		3801+22	3799+46	3801+22	3799+46					2	2	137.5		/		/								
75.5		3813+85	3812+49	3813+85	3812+49					/		137.5												
75.7		3829+64	3820+66	3829+64	3820+66	50.0						900.0		4		/								
76.0		3844+00	3840+59	3844+00	3840+59			/	/	3	3	275.0				/	/							
76.2		3852+06	3849+81	3852+06	3849+81							225.0				/								
76.6		3869+86	3867+23	3869+86	3867+23							262.5				/								
76.9		3885+45	3883+19	3885+45	3883+19			/	/	/	/	200.0				/								
77.4		3912+25	3910+23	3912+25	3909+98		25.0	/	/	/	/	200.0				/			3909+98	3910+23	25.0			
77.6		3922+91	3920+69	3922+91	3920+69							225.0				/								
77.8		3937+47	3933+44	3937+47	3933+44	12.5		/	/	/	/	400.0	/	/		/								
78.0		3960+72	3942+27	3960+72	3942+27	62.5		/	/	/	/	1825.0	/	/		/								
78.6		3985+00	3976+02	3985+00	3976+02	50.0		/	/	/	/	900.0	2	3										
79.0		4015+52	3994+95	4015+52	3994+95	37.5						2062.5												
79.4		4025+07	4017+73	4025+07	4017+73	87.5						737.5												
79.6		4031+54	4026+86	4031+54	4026+86	12.5						425.0				/	/							
						TOTAL	312.5	25.0	7	7	12	11	8912.5	4	9	/	10	3				25.0		
						UNIT	LF	LF	EA	EA	EA	EA	LF	EA	EA	EA	EA	EA				LF		

Date: 3/29/2018

Filename: ... \MSTA\026_CR-Schedule_SB.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

	By	Date		By	Date
Designed	JRH	1/2018	Checked	PJB	2/2018
Drawn	SPA	1/2018	In Charge of	JOF	3/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

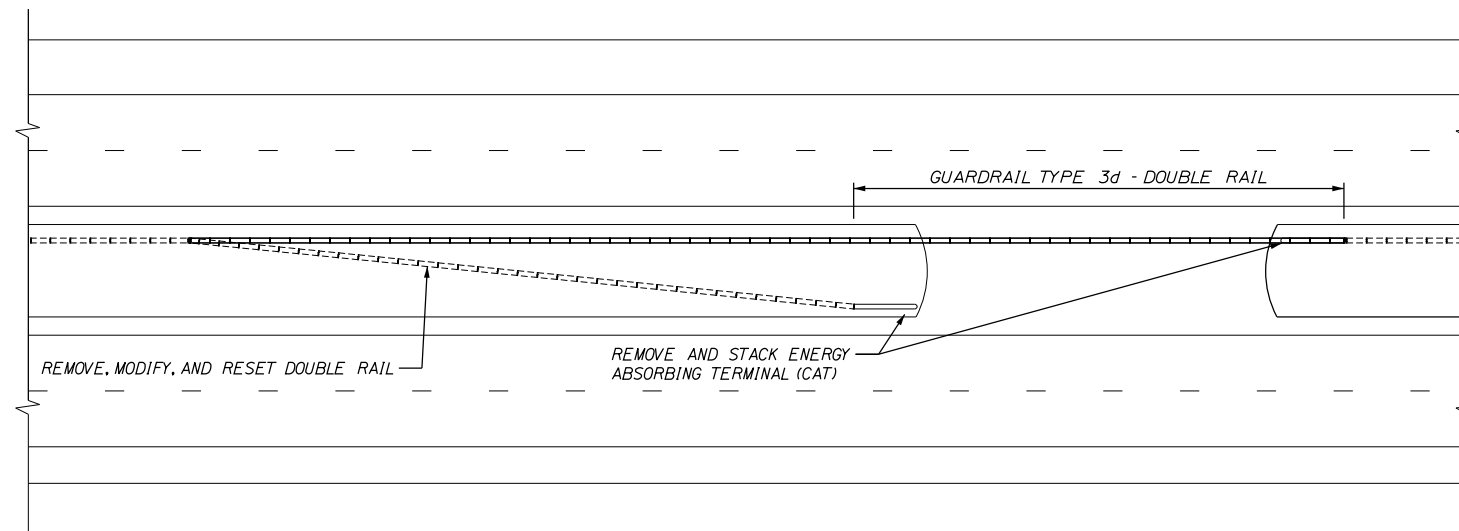
PAVEMENT REHABILITATION, GUARDRAIL
AND CLEAR ZONE IMPROVEMENTS

GUARDRAIL LIMITS
SOUTHBOUND

SHEET NUMBER: G-4
CONTRACT: 2018.12
26 OF 27

SCHEDULE OF MEDIAN GUARDRAIL LIMITS

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 527.305 ENERGY ABSORBING TERMINAL (CAT) - REMOVE AND STACK	ITEM 606.178 GUARDRAIL BEAM	ITEM 606.240I GUARDRAIL TYPE 3d - DOUBLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END - ANCHORED END	ITEM 606.353 DELINEATOR POST	ITEM 606.355 DELINEATOR POST - REMOVE & STACK	ITEM 606.3606 REMOVE, MODIFY AND RESET DOUBLE RAIL	ITEM 606.362I GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.3622 GUARDRAIL ADJUST - DOUBLE RAIL	ITEM 606.369 GUARDRAIL REMOVED & STACKED	ITEM 606.47I SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	DESCRIPTION OF WORK
		EXISTING		PROPOSED															
		APPROX. STATION	APPROX. STATION OF TERMINAL END OF ENDPPOST	STATION LEADING END	STATION TRAILING END														
74.9	NB MEDIAN	3780-00	3786-40	3780-00	3786-40								287.5	350.0					
75.0	SB-NB MEDIAN	3783-03	3798-74	3783-03	3798-74								287.5	1287.5					
75.3	SB-NB MEDIAN	3799-46	3813-26	3799-46	3813-26									1375.0					
75.7	SB-NB MEDIAN	3820-22	3828-52	3820-22	3828-52		37.5						87.5	737.5		3			
75.8	SB MEDIAN	3827-18	3854-67	3827-18	3884-62	1	25.0		1	1	1	1	387.5	125.0	2375.0			4	CLOSE MEDIAN OPENING MM 76.3 SEE DETAIL BELOW
76.3	SB-NB MEDIAN	3855-50	3884-62			1		150.0	1	1	1	1		87.5	2825.0				
76.9	SB-NB MEDIAN	3883-48	3921-89	3883-48	3921-89			2	2	2	2		225.0	3587.5					
77.6	NB-SB MEDIAN	3920-35	3974-25	3920-35	3985-05	1	25.0	150.0	1	1	1	1	137.5	4750.0					CLOSE MEDIAN OPENING MM 78.5 SEE DETAIL BELOW
78.6	NB-SB MEDIAN	3975-00	3985-05			1			1	1	1	1	500.0		1000.0				
78.9	NB MEDIAN	3993-71	4015-27	3993-71	4015-27									2150.0					
79.4	SB-NB MEDIAN	4017-50	4025-44	4017-50	4025-44									800.0					
79.6	SB-NB MEDIAN	4027-03	4032-90	4027-03	4032-90									587.5		1	1		
79.7	NB MEDIAN	4033-75	4036-00	4033-75	4036-00									225.0					
					TOTAL	4	87.5	300.0	5	5	6	6	887.5	1237.5	22050.0		4	5	
					UNIT	EA	LF	LF	EA	EA	EA	EA	LF	LF	LF	LF	EA	EA	



MEDIAN OPENING CLOSURE DETAIL

Date: 3/29/2018

Filename: ... \MSTA\027_CR-Schedule_MED.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date


Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Jim Ferguson

By	Date	By	Date
Designed	JRH 1/2018	Checked	PJB 2/2018
Drawn	SPA 1/2018	In Charge of	JOF 3/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

PAVEMENT REHABILITATION, GUARDRAIL AND CLEAR ZONE IMPROVEMENTS
 GUARDRAIL LIMITS
 MEDIAN

SHEET NUMBER: G-5
27 OF 27

CONTRACT: 2018.12