

Date:11/11/2019



THE GOLD STAR **MEMORIAL HIGHWAY**

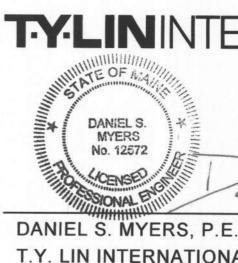
MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2020.07

BRIDGE REPAIRS 3 LOCATIONS: BOOM ROAD UNDERPASS (MILE 33.4) BEECH RIDGE ROAD UNDERPASS (MILE 41.4) **GROVE STREET UNDERPASS (MILE 83.7)**



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TYLININTERNATIONAL

T.Y. LIN INTERNATIONAL PROJECT MANAGER

11/11/2019

DATE

Item No.	Item Description	Unit	Mile 33.4 Boom Road Underpass	Mile 41.4 Beech Ridge Road Underpass	Mile 83.7 Grove Street Underpass	Combined Quantity
202.127	REMOVING EXISTING BITUMINOUS PAVEMENT (1260 SY)	LS		0.55	0.45	1
202.202	REMOVING PAVEMENT SURFACE	SY	900	210	295	1,405
203.20	COMMON EXCAVATION	СҮ			41	41
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	СҮ			32	32
403.208	HOT MIX ASPHALT - 12.5 mm NOMINAL MAXIMUM SIZE	TON	75	74	73	222
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE COURSE)	TON		57	62	119
409.15	BITUMINOUS TACK COAT RS-1 OR RS1h - APPLIED	GAL	27	48	44	119
502.701	BRIDGE DRAIN GRATE MODIFICATIONS	EA			4	4
502.7011	WEEP DRAIN EXTENSIONS	LS	0.33	0.33	0.34	1
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (1260 SY)	LS		0.55	0.45	1
513.09	SLOPE PROTECTION - PORTLAND CEMENT CONCRETE	SY	45	20	5., 10	65
515.201	PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES	SY		20	310	310
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY	710	715	440	1,865
518.10	ABUTMENT REPAIRS	SF	10	10	75	95
518.20	PIER REPAIRS	SF	20	10	195	215
518.43	PARAPET JOINT REPAIRS	LF	270	260	315	845
518.75	FASCIA AND OVERHANG REPAIRS	SF	270	200	50	50
518.80	PARTIAL DEPTH CONCRETE DECK REPAIRS	SF		85	75	160
520.211	EXPANSION DEVICE MODIFICATIONS (BOOM ROAD)	LS	1	00	70	100
520.217 520.212	EXPANSION DEVICE MODIFICATIONS (BEECH RIDGE ROAD)	LS	I	1		1
520.212 520.213	EXPANSION DEVICE MODIFICATIONS (GROVE STREET)	LS		1	1	1
526.306	TEMPORARY CONCRETE BARRIER, TYPE I – SUPPLIED BY AUTHORITY	LS	0.32	0.34	0.34	1
613.319	EROSION CONTROL BLANKET	SY	25	25	25	75
615.07	LOAM	CY	25 A	20 A	20	8
618.14	SEEDING METHOD NUMBER 2	UN				2
619.1201	MULCH-PLAN QUANTITY	UN	1	1		2
619.1201 619.1202	TEMPORARY MULCH	LS	0.33	0.33	0.34	
619.1401	EROSION CONTROL MIX	CY	0.00	0.00	28	28
627.712	WHITE OR YELLOW PAVEMENT MARKING LINE	LF	755	750	930	2,435
639.19	FIELD OFFICE, TYPE B	EA	0.33	0.33	0.34	2,400
652.30	FLASHING ARROW BOARD	EA	4	4	2	10
652.312	TYPE III BARRICADE	EA	T	7	3	6
652.331	DRUM	LS	0.4	0.38	0.22	1
652.34	CONE	EA	25	25	25	75
652.35	CONSTRUCTION SIGNS	SF	1524	1768	1491	4,783
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.33	0.33	0.34	<u>+,705</u> 1
652.38	FLAGGERS	HR	720	290	290	1,300
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA	2	230	290	6
652.45	TRUCK MOUNTED ATTENUATOR	CD	28	28	28	84
652.45 652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	CD	 	20 14	20 14	42
652.46	TEMPORARY PORTABLE RUMBLE STRIPS	UNIT	17	17	84	84
656.50	BALED HAY, IN PLACE	EA	12	12	 12	36
656.632	30 INCH TEMPORARY SILT FENCE	LF	125	135	12	455
659.10	MOBILIZATION	LF	0.29	0.32	0.39	400
UU3. IU			0.29	0.52	0.59	1

Date:11/12/2019

..\BRIDGE\MSTA\002_Quantities.dg

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L_					Drawn	DSM	10/2019	In Charge of	DSM	10

Date 11/2019 10/2019

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





MTA PROJECT MANAGER: Ralph C. Norwood, IV

2020 BRIDGE REPAIRS

ESTIMATED QUANTITIES

CONTRACT:2020.07

SHEET NUMBER: QT-01

GF	ENERAL CONSTRUCTION N	OTES			Di	RAINAGE	
/.	ALL DETAILS SHALL BE IN CONFO OF TRANSPORTATION (MaineDOT)S BRIDGES LATEST REVISION AND PRACTICES FOR EROSION AND S REVISION UNLESS OTHERWISE IN	DRMANCE WI TANDARD DE MaineDOT BE EDIMENT CO	TAILS HIGHWAY ST MANAGEMEN NTROL LATEST	S AND	/.	NO EXISTI PLUGGED N	NITHOUT PI
2.	ALL EXISTING DELINEATOR AND I LIMITS OF DISTURBANCE, SHALL E COMPLETION OF THE CONTRACT.F CONTRACT.	BE REMOVEL	D AND RESET U	PON	Ι.	ALL JOINTS PAVEMENT THE APPR	
						<u>FILITY</u>	
/.	ARTHWORK WASTE MATERIALS SHALL BE DIS SITE, IN ACCORDANCE WITH CHAF ENVIRONMENTAL PROTECTION SOL	PTER 404, DE	PARTMENT OF			EXISTING FIELD SUF GUARANTE UTILITIES COMPENSA	RVEY AND N ED TO BE ARE SHOW
Date:11/12/2019 P	EXCAVATIONS ACCOMPLISHED AS CONSTRUCTED IN ACCORDANCE W PART 1926.650-652 (CONSTRUCTIO	ITH OSHA S	UBPART P OF 2	29 CFR		VARIANCE ACTUAL FI STARTED NOTIFIED	BETWEEN ELD CONDI UNTIL THE BY THE CO
<u> </u>	FILL/BORROW SHALL BE COMPACT DENSITY AS DETERMINED BY THE					THE CONTI 1-888-344-7 WORK.	
	AMENDED BY SPECIAL PROVISION AGGREGATE BASE, AND AGGREGAT COMPACTED TO 98% OF THEIR M DETERMINED BY THE MODIFIED MATERIAL BEHIND ABUTMENTS AN AMENDED BY SPECIAL PROVISION AGGREGATE BASE, AND AGGREGAT COMPACTED TO 95% IN ALL OTHE	TE SUBBASE AXIMUM DRY PROCTOR FO ND RETAININ 203.GRANU TE SUBBASE	SHALL BE DENSITY AS R AREAS OF B IG WALLS, EXCEP LAR BORROW,	ACKFILL	2.	THE CONT CONSTRUCT TURNPIKE LOCATIONS NOTIFICAT THE AUTH UTILITIES,	TION SO TH UNDERGRO AND EXCA ION TIME.E ORITY HAS
<u>E</u> I	ROSION CONTROL				3.	THE AUTH TURNPIKE	
Ι.	THE ANTICIPATED EROSION CONT LIMIT OF DISTURBANCE ARE SHO CONTRACTOR SHALL PROPOSE AC DEVICES FOR APPROVAL BY THE MAY BE PROPOSED BY THE CONT WEATHER CONDITIONS.THE RESIDENT TO IMPLEMENT ADDITIONAL MEASU APPROVED BY THE RESIDENT WI	DWN ON THE TUAL TYPE A RESIDENT. FRACTOR DUE DENT MAY DI URES.ANY AL	PLANS.THE AND LOCATION O ADDITIONAL MEA E TO SITE OR IRECT THE CONT DDITIONAL MEAS	F SURES TRACTOR TURES		CONTRACTO ADDITIONA	DR NEED A L EXCAVAT DR FAIL TO HED DIG SA
2.	4" LOAM HAS BEEN ESTIMATED F SLOPE AREA UNLESS OTHERWISE ACTUAL PLACEMENT OF THE LOAM THE RESIDENT.	E SPECIFIEL	ON THE PLAN.	S .			
3.	ALL SLOPES SHALL BE SEEDED UNLESS OTHERWISE NOTED IN TH		NG METHOD NO.	2			
4.	MULCH SHALL BE APPLIED IN AF EROSION CONTROL BLANKET IS SI		D EXCEPT WHE	RE			
5.	ALL TEMPORARY AND PERMANENT BE INSTALLED IN ACCORDANCE V	EROSION CO					
	TRANSPORTATION BEST MANAGEM	ENT PRACTIC	<i>2</i> ΕS.				
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\MSTA\003	Revision	By Date		LIN	INTE	RNAT	IUNA
				PROJECT MA	NAGER:	Daniel S. Myers	
Filename:			Designed	By C	ote 2018	Checked	By DSM 10
			Drawn			In Charge of	DSM 10

GENERAL MAINTENANCE OF TRAFFIC NOTES:

AGE SHALL BE ABANDONED, REMOVED, OR RIOR APPROVAL OF THE RESIDENT.

N EXISTING AND PROPOSED BITUMINOUS BUTTED.PAYMENT SHALL BE MADE UNDER CONTRACT PAY ITEMS.

ON THESE PLANS WERE COMPILED FROM VARIOUS OTHER SOURCES.LOCATIONS ARE NOT ACCURATE NOR IS IT GUARANTEED THAT ALL WN.NO SEPARATE OR ADDITIONAL BE ALLOWED TO THE CONTRACTOR DUE TO ANY THE DATA SHOWN ON THE PLANS AND THE TIONS ENCOUNTERED.NO WORK SHALL BE OWNERS OF THE VARIOUS UTILITIES ARE ONTRACTOR OF THE PROPOSED CONSTRUCTION. ALSO REQUIRED TO CALL DIG SAFE AT EAST 72 HOURS PRIOR TO THE START OF THE

HALL NOTIFY THE RESIDENT IO DAYS PRIOR TO HE RESIDENT CAN ARRANGE FOR MAINE DUND UTILITY LOCATION. ALL PROPOSED SIGN AVATION LOCATIONS SHALL BE MARKED AT THE EXCAVATING WILL NOT BE PERMITTED UNTIL LOCATED AND MARKED ITS UNDERGROUND TED THE RESIDENT THAT THERE ARE NO TIES IN THE MARKED AREAS.

PROGRAMMED TWO FIELD VISITS FOR MAINE OORDINATION ON THIS PROJECT. SHOULD THE ADDITIONAL SIGN LOCATIONS AND/OR TON LOCATIONS MARKED, OR SHOULD THE MAINTAIN THE AUTHORITY'S PREVIOUSLY AFE MARKS, THE AUTHORITY SHALL DEDUCT THE STS FROM THE CONTRACTOR'S PAYMENTS.

- I. 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 SHEETS.
- 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. AT NO TIME SHALL SHOULDER CLOSURES ON BOTH SIDES OF THE TRAVEL LANES OCCUR ON THE SAME SIDE OF THE MAINLINE.
- 6. WORK WITHIN SHOULDER CLOSURES SHALL BE CONTINUOUS TO MINIMIZE IMPACTS TO MAINLINE TRAFFIC.
- 7. CONTRACTOR SHALL COORDINATE ALL MAINTENANCE OF TRAFFIC WITH ADJACENT PROJECTS.
- 8. 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.
- 9. LOCATIONS OF TEMPORARY TRAFFIC CONTROL DEVICES, SIGNS, AND PAVEMENT MARKINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

Date 0/2019 0/2019 T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753





MTA PROJECT MANAGER: Ralph C. Norwood, IV

2020 BRIDGE REPAIRS

GENERAL NOTES

CONTRACT:2020.07

SHEET NUMBER: GN-01

SPECIFICATIONS:

<u>DESIGN</u> AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION WITH INTERIMS THROUGH 2019.

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

MATERIALS:

CONCRETE BRIDGE 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 $f_v = 60,000 P.S.I.$

GENERAL NOTES:

- NOVEMBER 2014 WITH UPDATES.
- UNLESS OTHERWISE NOTED.
- NOTED.
- SURFACE.
- BELOW THE BOTTOM FLANGES OF GIRDERS.

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I. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, HIGHWAYS AND BRIDGES.

2. 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.

3. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" MIN.,

4. CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ " UNLESS OTHERWISE

5. ALL PROPOSED CONCRETE CURB FACES AND INSIDE AND TOP FACES OF THE ENDPOSTS SHALL RECEIVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE

6. SHIELDING REQUIRED DURING CONSTRUCTION SHALL NOT PROJECT

7. 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.

CONCRETE REPAIR PROCEDURAL NOTES:

- I. 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.
- 3. ANY EXISTING JOINTS IN THE CONCRETE SHALL BE MAINTAINED THROUGH REPLACEMENT CONCRETE THROUGH THE USE OF BOND BREAKERS OR AS DIRECTED BY THE RESIDENT.

REMOVAL PROCEDURE:

- 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 I INCH DEEP SAWCUTS ALONG LIMITS OF REMOVAL.
- 4. CHIP CONCRETE TO DEPTH REQUIRED PER SPECIFICATIONS.

CONCRETE SURFACE PATCH/REPAIR PROCEDURE:

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

GENERAL FINISHING:

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 AT GROVE STREET (MM 83.7). CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL CONCRETE CURB FACES, ALL FASCIAS AND FASCIA OVERHANGS, AND ALL BARRIER INSIDE AND TOP FACES FOR ALL STRUCTURES. CLEAR PROTECTIVE COATING SHALL ALSO BE APPLIED TO ALL ABUTMENT FACES, ALL WINGWALL FACES, AND ALL BARRIER OUTSIDE FACES AT BOOM ROAD (MM 33.4) AND BEECH RIDGE ROAD (MM 41.4) STRUCTURES.

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





LIST OF ABBREVIATIONS

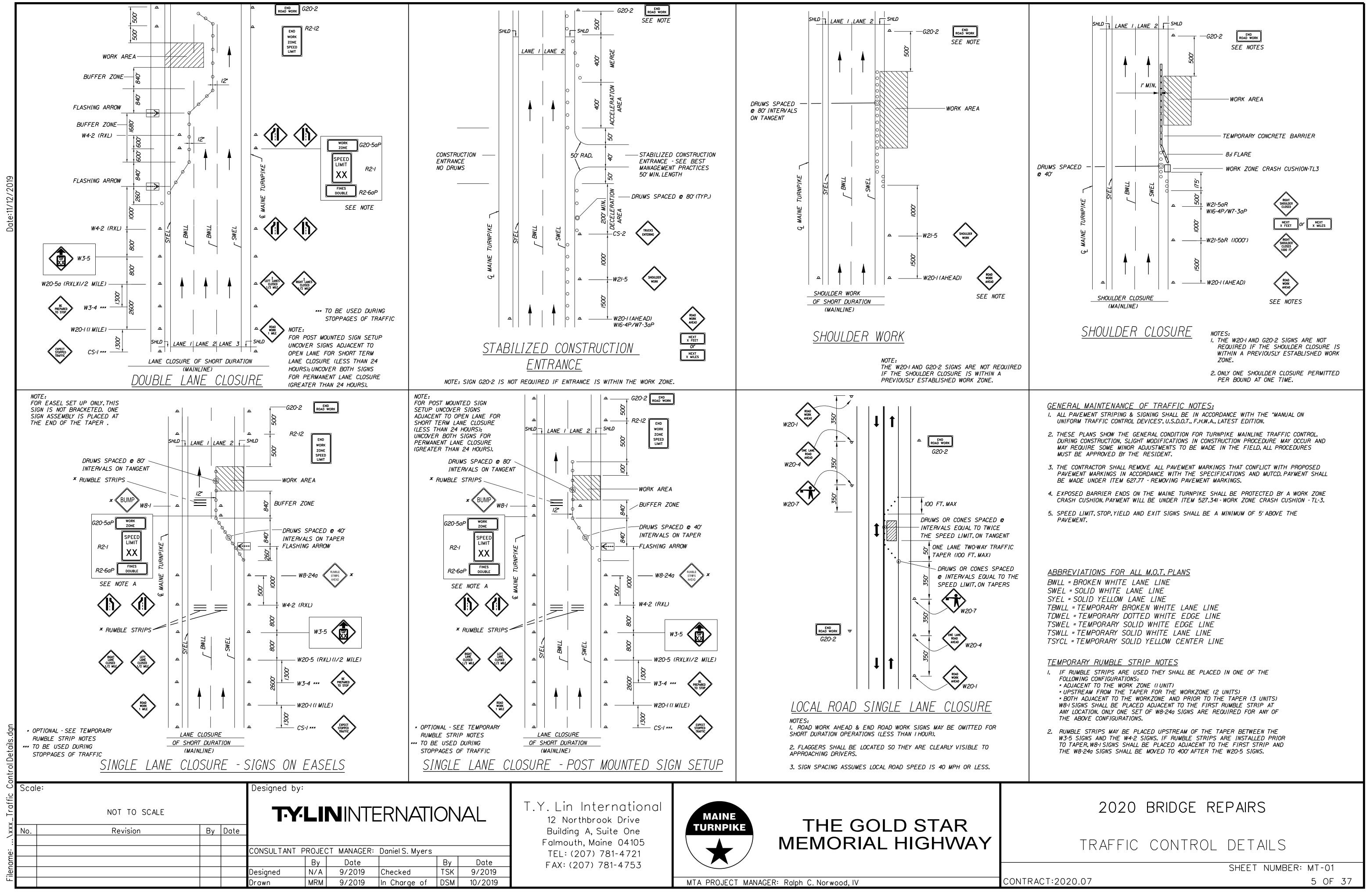
DIA. DIAPH. EA. EB. E.F. E.F. E.F. EXP. EXP. EXP. EXP. EXP. EXP. EXP. EXP	ABUTMENT ADDITIONAL AGGREGATE SUBBASE COURSE GRAVEL ALTERNATE APPROXIMATE BOTTOM BEARING CLEAR CENTERLINE CONCRETE CONSTRUCTION DEMOLITION DIAMETER DIAPHRAGM EACH EASTBOUND EACH FACE ELEVATION EQUAL EXISTING EXPANSION FAR FACE JOINT MAXIMUM MINIMUM MAINE TURNPIKE AUTHORITY NORTHBOUND NEAR FACE NOT TO SCALE ORDINARY HIGH WATER PEDESTAL PROFILE GRADE LINE PLATE PROPOSED ROADWAY SHOULDER SOUTHBOUND SPACES STATION TOP & BOTTOM TURNPIKE TYPICAL UNLESS OTHERWISE NOTED VERTICAL
1.0.N.	UNLESS OTHERWISE NOTED
_ /.P.	WORKING POINT

2020 BRIDGE REPAIRS

BRIDGE GENERAL NOTES

CONTRACT:2020.07

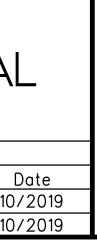
SHEET NUMBER: GN-02



CS-1 CS-2 G20-2 G20-5af	48"	48"	EXPECT STOPPED TRAFFIC	8C 8C 8C	4" 4"		4	ORANGE	BLACK	16.00 (64)	
G20-2	48"	48"									
				7C 7C	6"		1	ORANGE	BLACK	16.00 (16)	
G20-5aF	36"	24"	END ROAD WORK	CONF	T DIMENSION FORM TO "ST WAY SIGNS"	TANDARD	11	ORANGE	BLACK	6.00 (66)	
	- 48"	24"	WORK ZONE				4	ORANGE	BLACK	8.00 (32)	
R2-1	48"	60"	SPEED LIMIT 60				4	WHITE	BLACK	20 (80)	
R2-6aP	36"	24"	FINES DOUBLE				4	WHITE	BLACK	6.00 (24)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT				4	WHITE	BLACK	13.50 (54)	
W3-4	48"	48"	BE PREPARED TO STOP				4	ORANGE	BLACK	16.00 (64)	
W3-5	48"	48"	SPEED LIMIT 60				4	ORANGE	BLACK	16.00 (64)	
W4-2 (LEFT) (RIGHT.	48"	48"					8	ORANGE	BLACK	16.00 (128) 16.00 (128)	
W8-1	48"	<i>48</i> "	BUMP				4	ORANGE	BLACK	16.00 (64)	
<i>w8-24</i>	D 48"	48"	RUMBLE STRIPS AHEAD				4	ORANGE	BLACK	16.00 (64)	

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	CIZI			TEXT DI	MENSIONS	(INCHES)	NUMBER	COL	0R			
IDENTIFI- CATION	SI	GN	TEXT	LETTER	VERTICAL	ARROW	NUMBER OF SIGNS	BACK-	LEGEND	BORDER RADIUS	AREA IN SQUARE	NOTES
NUMBER WI6-4P	<i>WIDTH</i> 36"	HE IGHT 30"	NEXT 1000 FEET	CONFOR	IMENSIONS M TO "STA M SIGNS" -	S SHALL NDARD	REQUIRED	GROUND ORANGE	BORDER BLACK		FEET 7.50 (30)	
W20-I (AHEAD)	36" 48"	36" 48"	ROAD				2 10				9.00 (18)	
(I MILE)	48" 48"	48" 48"	WORK AHEAD				4	ORANGE	BLACK		16.00 (160) 16.00 (64)	
W20-4	36"	36"	ONE LANE ROAD AHEAD				2	ORANGE	BLACK		9.00 (18)	
W2O-5 (LEFT) (RIGHT)	48"	48"	LEFT LANE CLOSED 1/2 MILE				4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W2O-5a (LEFT) (RIGHT)	48"	48"	2 LEFT LANES CLOSED 1/2 MILE				4 4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W20-7	36"	36"					2	ORANGE	BLACK		9.00 (18)	
W2I-5	48"	48"	SHOULDER WORK				3	ORANGE	BLACK		16.00 (48)	
W2I-5aR RIGHT	48"	48"	RIGHT SHOULDER CLOSED				2	ORANGE	BLACK		16.00 (32)	
W2I-5bR RIGHT	48"	48"	RIGHT SHOULDER CLOSED 1000 FT	∀	∀		2	ORANGE	BLACK		16.00 (32)	



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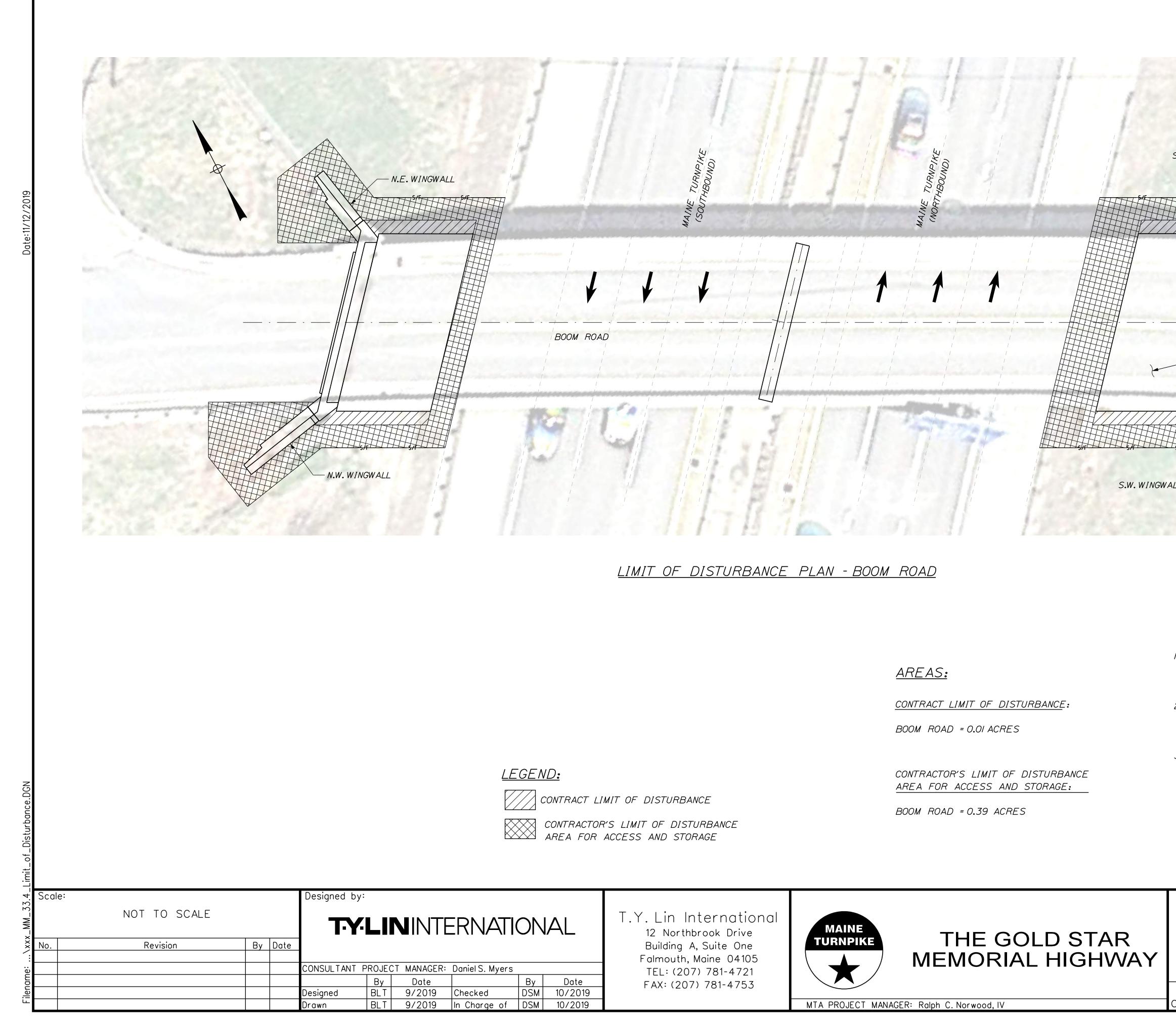
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

2020 BRIDGE REPAIRS BOOM ROAD (MILE 33.4) SIGN SUMMARY

CONTRACT:2020.07

SHEET NUMBER: BM-01

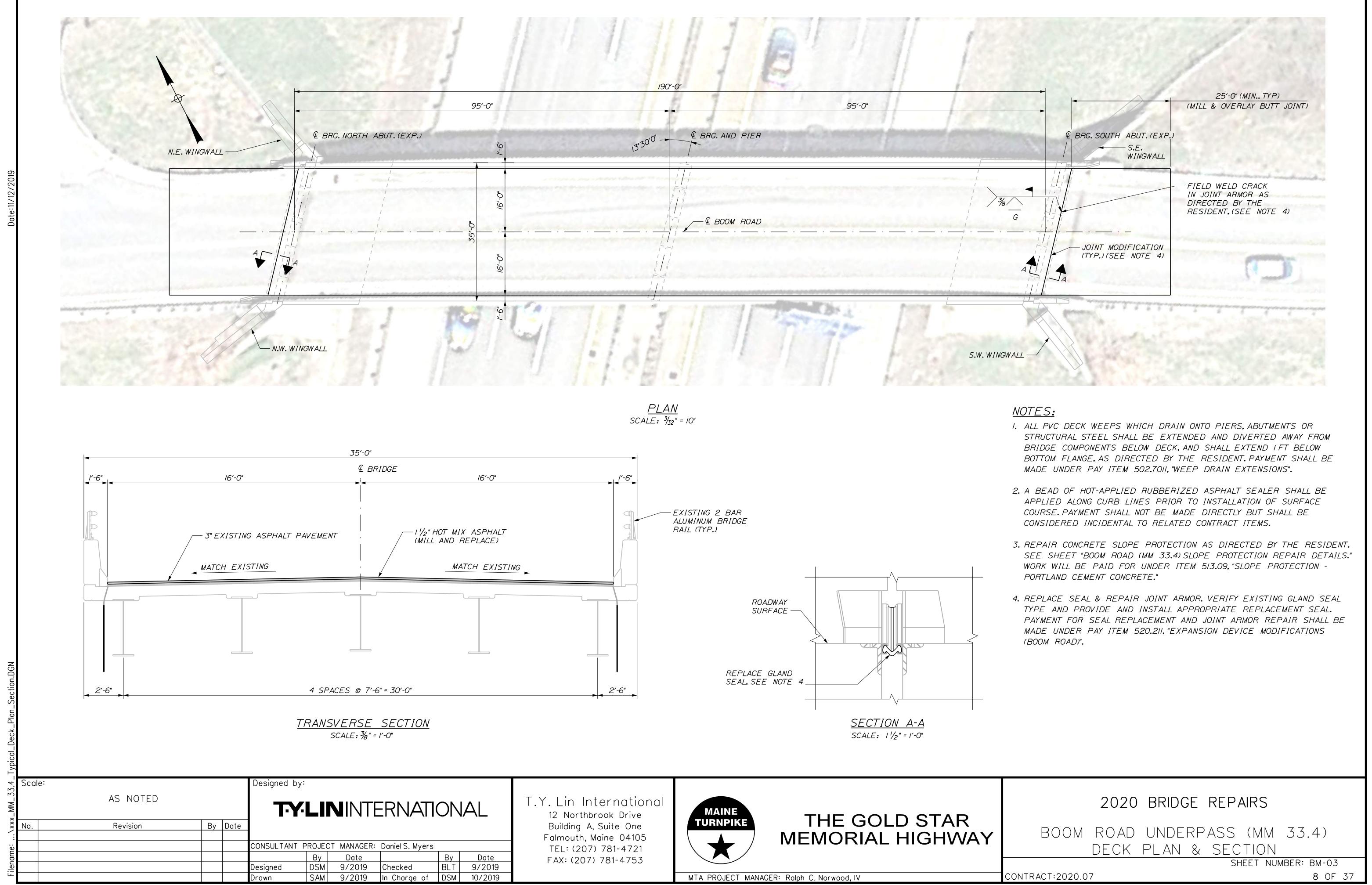


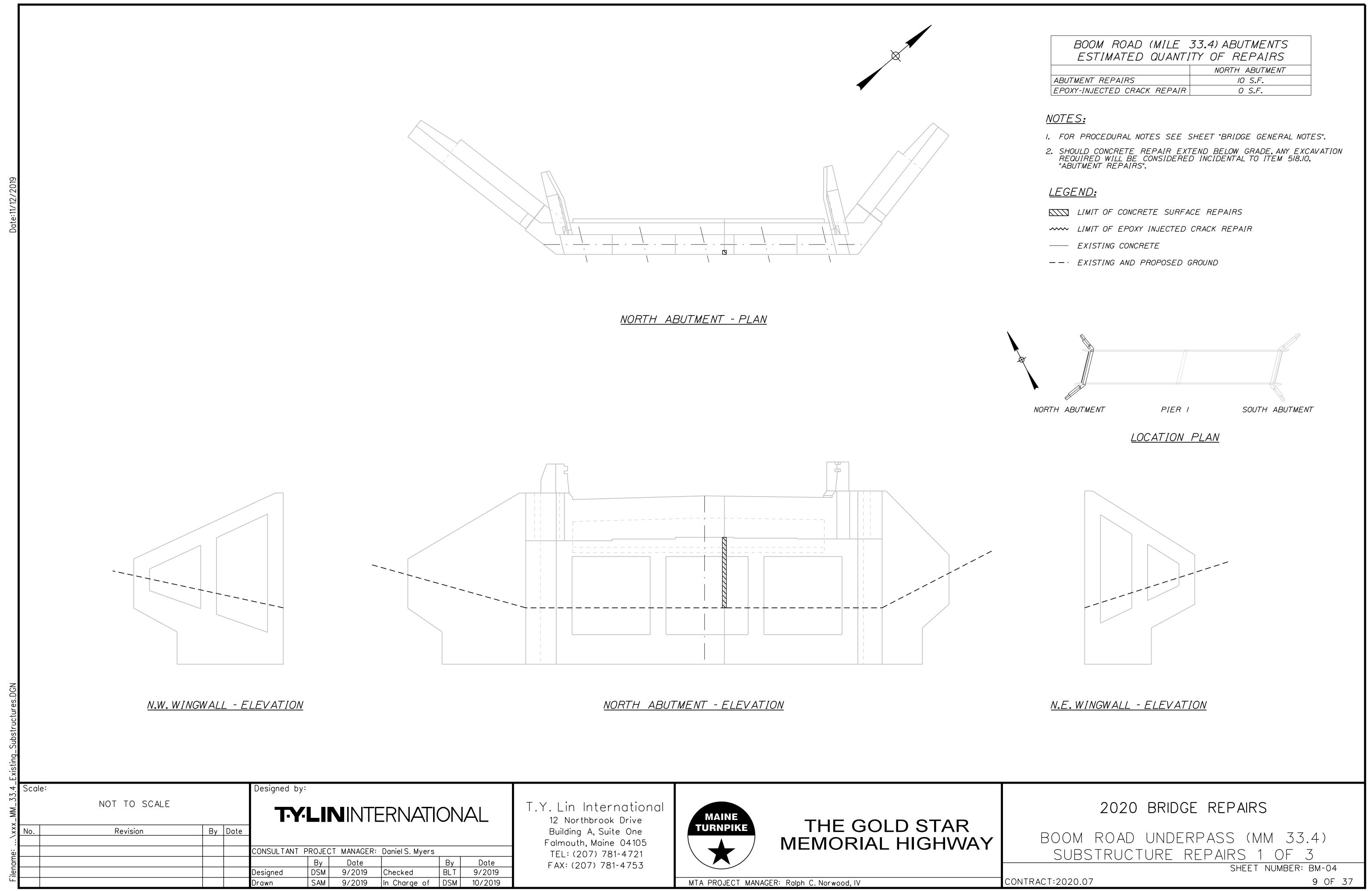
S.E. WINGWALL NG CONCRETE

NOTES:

- I. 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.
- 3. CONTRACTOR WILL BE ALLOWED TO UTILIZE THE EMERGENCY VEHICLE RAMP, WHICH IS LOCATED NORTH OF THE STRUCTURE AND CONNECTS THE NORTHBOUND LANES TO BOOM ROAD, FOR ACCESS DURING CONSTRUCTION ACTIVITIES. THIS AREA HAS BEEN INCLUDED IN THE LIMIT OF DISTURBANCE FOR ACCESS AND STORAGE TOTALLED ON THIS SHEET. CONTRACTOR SHOULD NOTE THAT THIS ACCESS IS A BLIND DRIVE AND WILL REQUIRE FLAGGERS FOR TRUCKS EXITING ONTO BOOM ROAD. PAYMENT FOR FLAGGERS USED AT THIS LOCATION SHALL BE INCIDENTAL TO THE CONTRACT.

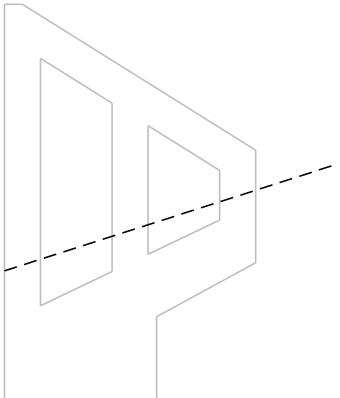
2020 BRIDGE REPAIRS BOOM ROAD UNDERPASS (MM 33.4) LIMIT OF DISTURBANCE SHEET NUMBER: BM-02 7 OF 37 CONTRACT:2020.07

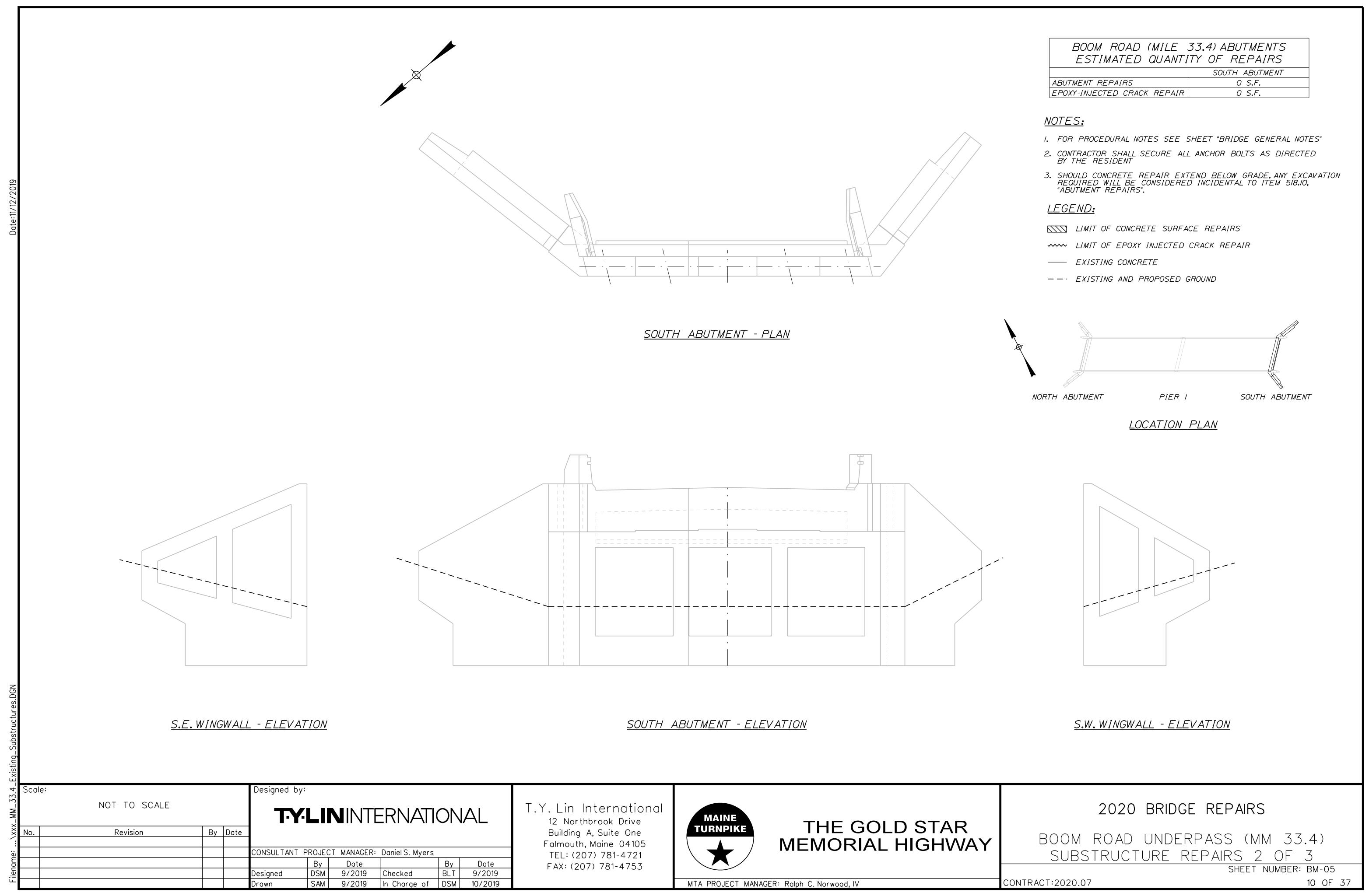




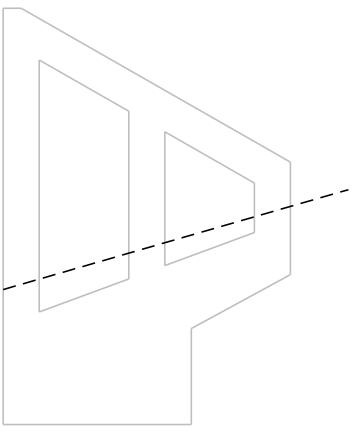
BOOM ROAD (MILE ESTIMATED QUANTI	
	NORTH ABUTMENT
ABUTMENT REPAIRS	10 S.F.
EPOXY-INJECTED CRACK REPAIR	0 S.F.

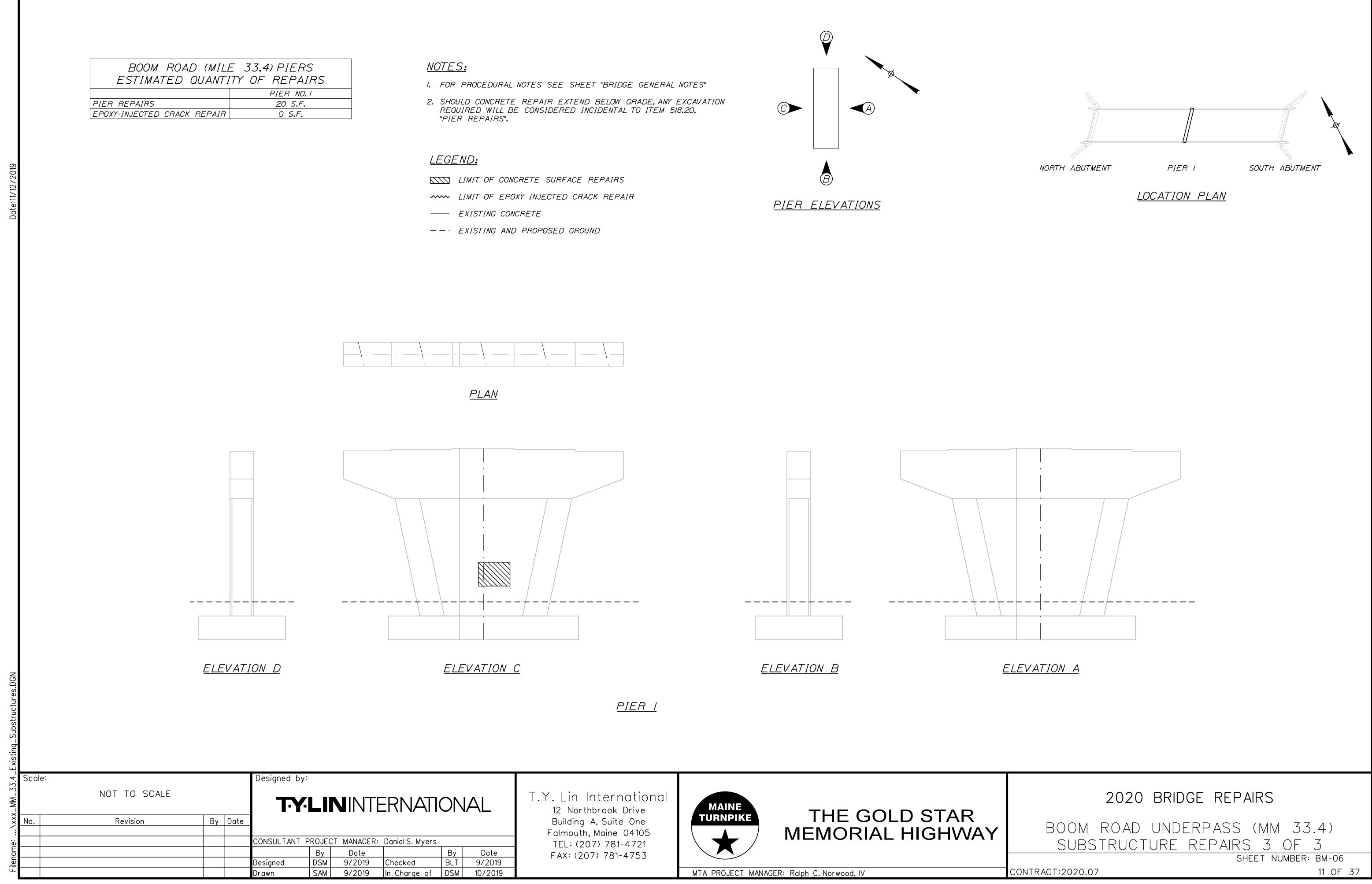


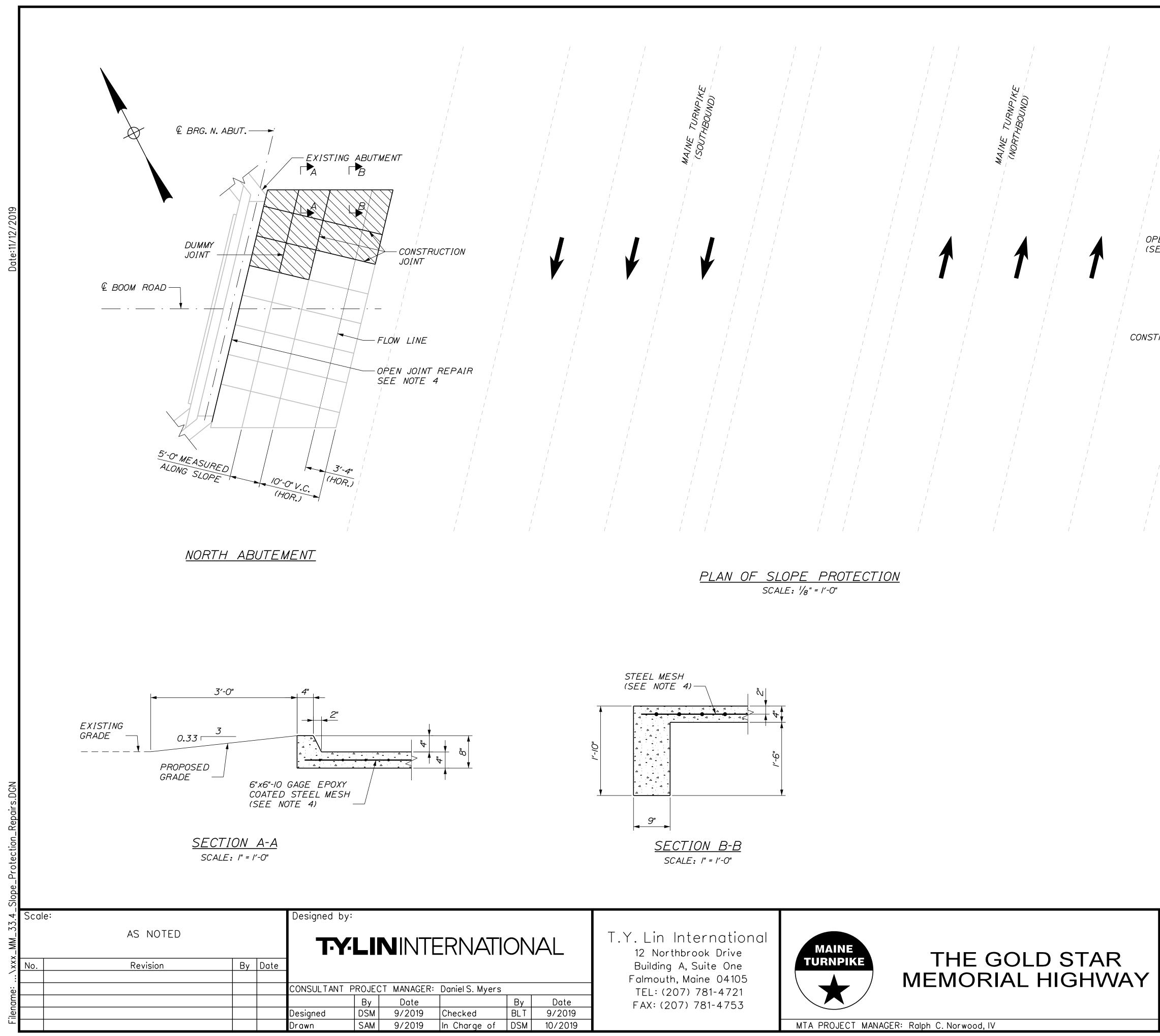




	33.4) ABUTMENTS
ESTIMATED QUANTI	ITY OF REPAIRS
	SOUTH ABUTMENT
ABUTMENT REPAIRS	0 S.F.
EPOXY-INJECTED CRACK REPAIR	0 S.F.





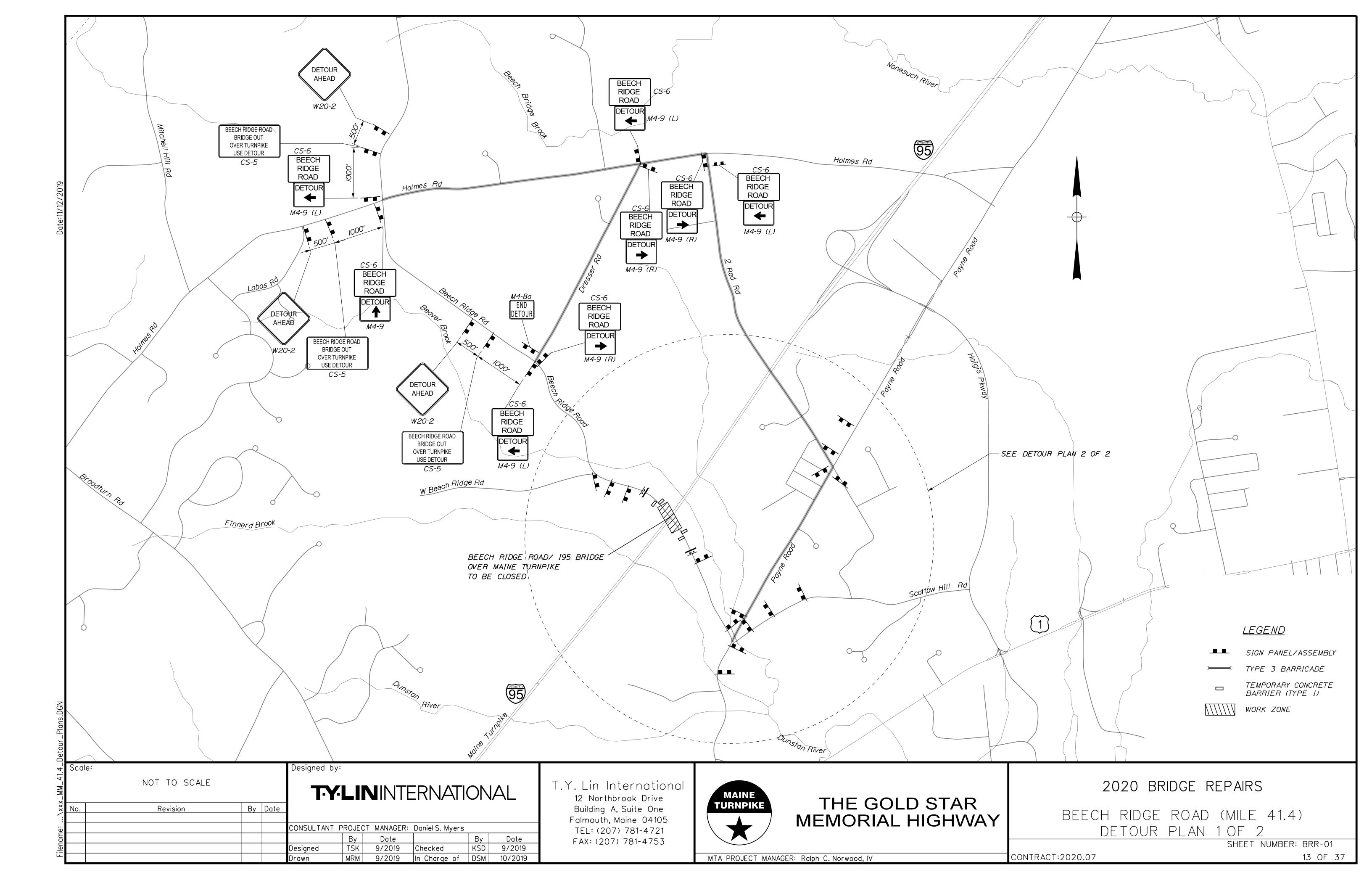


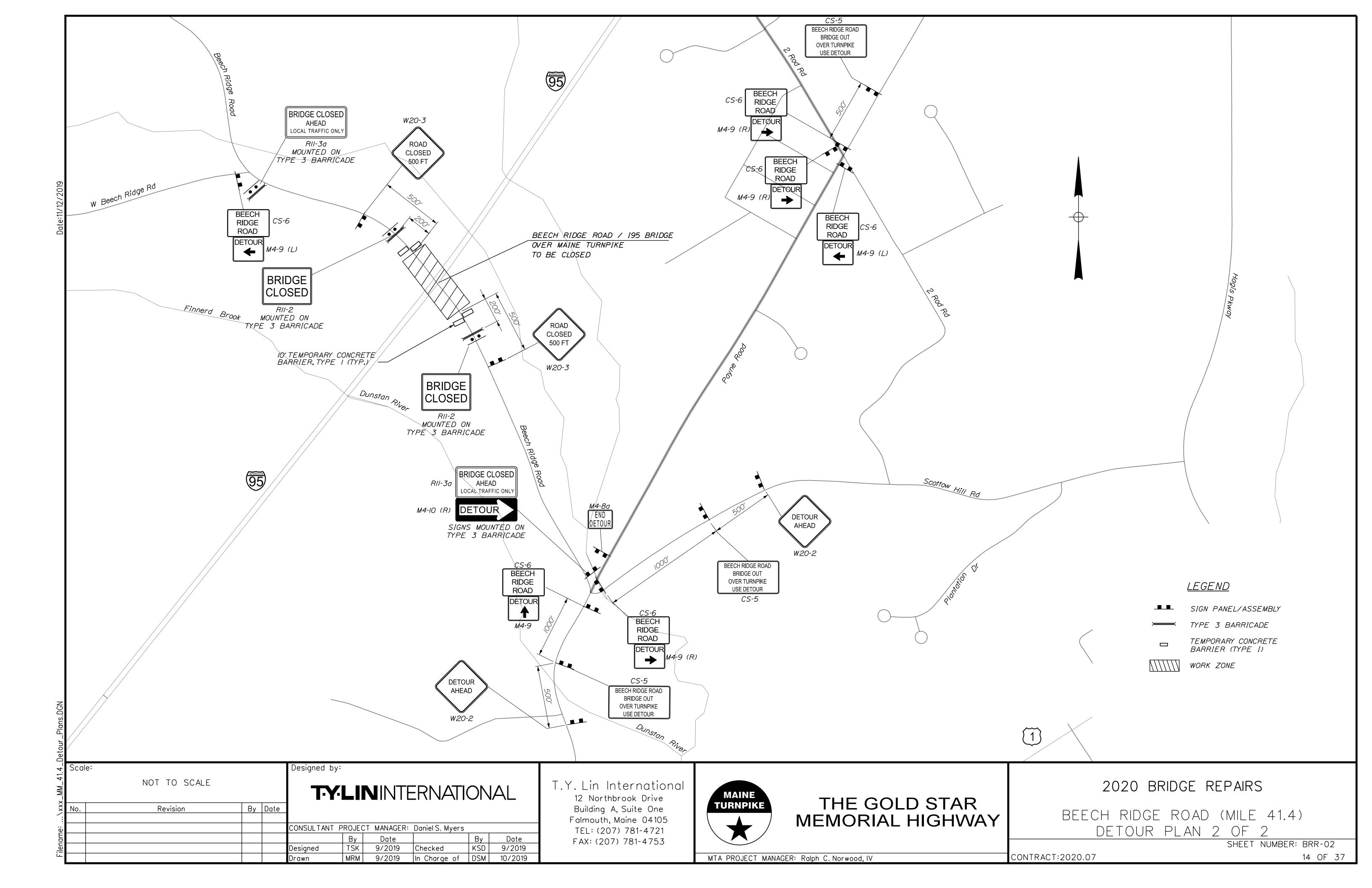
	€ BRG. S. ABUT. →
E	V JOINT REPAIR FLOW LINE JOINT
	SOUTH ABUTMENT LEGEND LIMIT OF SLOPE PROTECTION REPAIRS — EXISTING CONCRETE
	 SLOPE REPAIR ITEM NOTES: REGRADING AREA TO DRAIN WILL BE PAID FOR UNDER ITEM 513.09, "SLOPE PROTECTION - PORTLAND CEMENT CONCRETE." LOAM AND SEED REGRADED AREA WITH 2 INCHES OF LOAM. REMOVE AND REPLACE CONCRETE SLOPE PROTECTION IN-KIND DIRECTED BY THE RESIDENT. CLASS A CONCRETE SHALL BE USED FOR REPLACING CONCRETE SLOPE PROTECTION. WELDED WIRE FABRIC IS EPOXY COATED AND MEETS REQUIREMENTS OF ASTM A884. FILL OPEN JOINT BETWEEN CONCRETE SLOPE PROTECTION AND ABUTMENT WITH NON-SHRINK GROUT AS DIRECTED BY RESIDENT. COSTS SHALL BE INCIDENTAL TO ITEM 513.09, "SLOPE PROTECTION - PORTLAND CEMENT CONCRETE."
	2020 BRIDGE REPAIRS
	BOOM ROAD (MM 33.4) Slope protection repair details

CONTRAC	T:2020.07

12 OF 37

SHEET NUMBER: BM-07





IDENTIFI- CATION		E OF GN	TEXT		MENSIONS VERTICAL		NUMBER OF	COL BACK-	LEGEND	BORDER	AREA IN	NOTES
NUMBER		HE IGHT		HEIGHT	SPACING	RTE. MKR.	SIGNS REQUIRED	GROUND	BORDER	RADIUS	SQUARE FEET	NOTES
CS-I	48"	48"	EXPECT STOPPED TRAFFIC	8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-2	48"	48"	TRUCKS ENTERING	7C 7C	6"		1	ORANGE	BLACK		16.00 (16)	
G20-2	36"	24"	END ROAD WORK	CONFO	 DIMENSION RM TO "ST AY SIGNS" ·	ANDARD	9	ORANGE	BLACK		6.00 (54)	
G20-5aP	48"	24"	WORK ZONE				4	ORANGE	BLACK		8.00 (32)	
R2-1	48"	60"	SPEED LIMIT 60				4	WHITE	BLACK		20 (80)	
R2-6aP	36"	24"	FINES DOUBLE				4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT				4	WHITE	BLACK		13.5 (54)	
W3-4	48"	<i>48</i> "	BE PREPARED TO STOP				4	ORANGE	BLACK		16 (64)	
W3-5	48"	48"	SPEED LIMIT 60				4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48"	48"					8	ORANGE	BLACK		16.00 (128) 16.00 (128)	
W8-1	48"	48"	BUMP	V	V	V	4	ORANGE	BLACK		16.00 (64)	
		<u> </u>			1						<u> </u>	
le:	NOT	TO SCA		Designed by						ТУ	lin Inte	ernationa

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No.	Revision	Ву	Date						
: 				CONSULTANT	PROJEC	T MANAGER:	Daniel S. Myers		
					By	Date		By	
lieu				Designed	MRM	9/2019	Checked	TSK	10
-				Drawn	MRM	9/2019	In Charge of	DSM	10

IDENTIFI-	SIZE	E OF		TEXT DI	MENSIONS	(INCHES)	NUMBER	COL	.OR		AREA IN	
CATION NUMBER	SI	GN HEIGHT	TEXT	LETTER HEIGHT	VERTICAL	ARROW	OF SIGNS REQUIRED	BACK-	LEGEND BORDER	BORDER RADIUS	SQUARE FEET	NOTES
WI6-4P	36"	30"	NEXT 1000 FEET	CONFOR	DIMENSIONS RM TO "STA AY SIGNS" -	ANDARD	4	ORANGE	BLACK		7.50 (30)	
W2O-I (AHEAD) (I MILE)	48" 48"	48" 48"	ROAD WORK AHEAD				10 4	ORANGE	BLACK		16.00 (160) 16.00 (64)	
W2O-5 (LEFT) (RIGHT)	48"	48"	LEFT LANE CLOSED 1/2 MILE				4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W2O-5a (LEFT) (RIGHT)	48"	48"	2 LEFT LANES CLOSED 1/2 MILE				4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W2I-5	48"	<i>48</i> "	SHOULDER WORK				3	ORANGE	BLACK		16.00 (48)	
W2I-5aR RIGHT	48"	48"	RIGHT SHOULDER CLOSED				2	ORANGE	BLACK		16.00 (32)	
W2I-5bR RIGHT	48"	48"	RIGHT SHOULDER CLOSED 1000 FT	V	V	V	2	ORANGE	BLACK		16.00 (32)	

MAINE TURNPIKE THE GOLD STAR Building A, Suite One Falmouth, Maine 04105 MEMORIAL HIGHWAY $\mathbf{\star}$ TEL: (207) 781-4721 FAX: (207) 781-4753 Date 10/2019 10/2019 CONTRACT:2020.07 MTA PROJECT MANAGER: Ralph C. Norwood, IV

2020 BRIDGE REPAIRS

BEECH RIDGE ROAD (MILE 41.4) SIGN SUMMARY

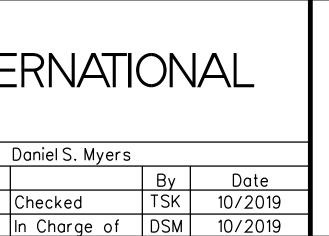
SHEET NUMBER: BRR-03

IDENTIFI-		E OF	TEXT		IMENSIONS	(INCHES)	NUMBER OF	COL		BORDER	AREA IN	NOTES
CATION NUMBER		GN HE IGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	SÍĜNS REQUIRED	BACK- GROUND	LEGEND BORDER	RADIUS	SQUARE FEET	NUTES
CS-5	60"	40"	BEECH RIDGE ROAD BRIDGE OUT OVER TURNPIKE USE DETOUR	6C 5C 5C 4C	4" 4" 4"		6	ORANGE	BLACK		16.67 (100.02)	
CS-6	36"	24"	BEECH RIDGE ROAD	5D 5D 5D	2.5" 2" 2" 2.5"		14	ORANGE	BLACK		6.00 (84)	
M4-8A	24"	18"	END DETOUR	CONFO	DIMENSIONS RM TO "STA AY SIGNS" -	NDARD	2	ORANGE	BLACK		3.00 (6)	
M4-9	30"	24"					2	ORANGE	BLACK		5.00 (10)	
M4-9(L)	30"	24"					6	ORANGE	BLACK		5.00 (30)	
M4-9(R)	30"	24"					6	ORANGE	BLACK		5.00 (30)	
M4-IO(R)	48"	<i>\8</i> "	DETOUR				1	ORANGE	BLACK		6.00 (6)	
RII-2	48"	30"	BRIDGE CLOSED				2	WHITE	BLACK		10.00 (20)	
RII-3b	60"	30"	BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY				2	WHITE	BLACK		12.50 (25)	
W20-2	36"	36"	DETOUR AHEAD				5	ORANGE	BLACK		9.00 (45)	
W20-3 (500)	36"	36"	ROAD CLOSED 500 FT				2	ORANGE	BLACK		9.00 (18)	

Designed by: Scale: NOT TO SCALE **TYLIN**INTERNATIONAL By Date Revision No. CONSULTANT PROJECT MANAGER: Daniel S. Myers By Date MRM 9/2019 Designed MRM 9/2019 Drawn

BEECH RIDGE RD BRIDGE OUT **OVER TURNPIKE USE DETOUR** <5<u>.</u>5 ★ ← 12.875 → ←7.5 ·★──13.5 ──★5 ·★ -26.5 *7.5 ← 12.25 → <u>9.875</u> → 5 → ──__20.625 ────॑ 12.25 ─

- 60 2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; [BEECH RIDGE RD] Black C 2K; [BRIDGE OUT] Black C 2K; [OVER TURNPIKE] Black C 2K; [USE DETOUR] Black C 2K;



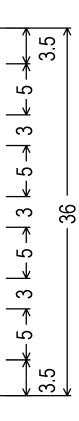
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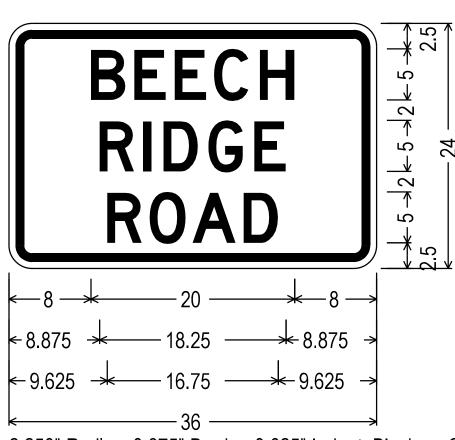
T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV



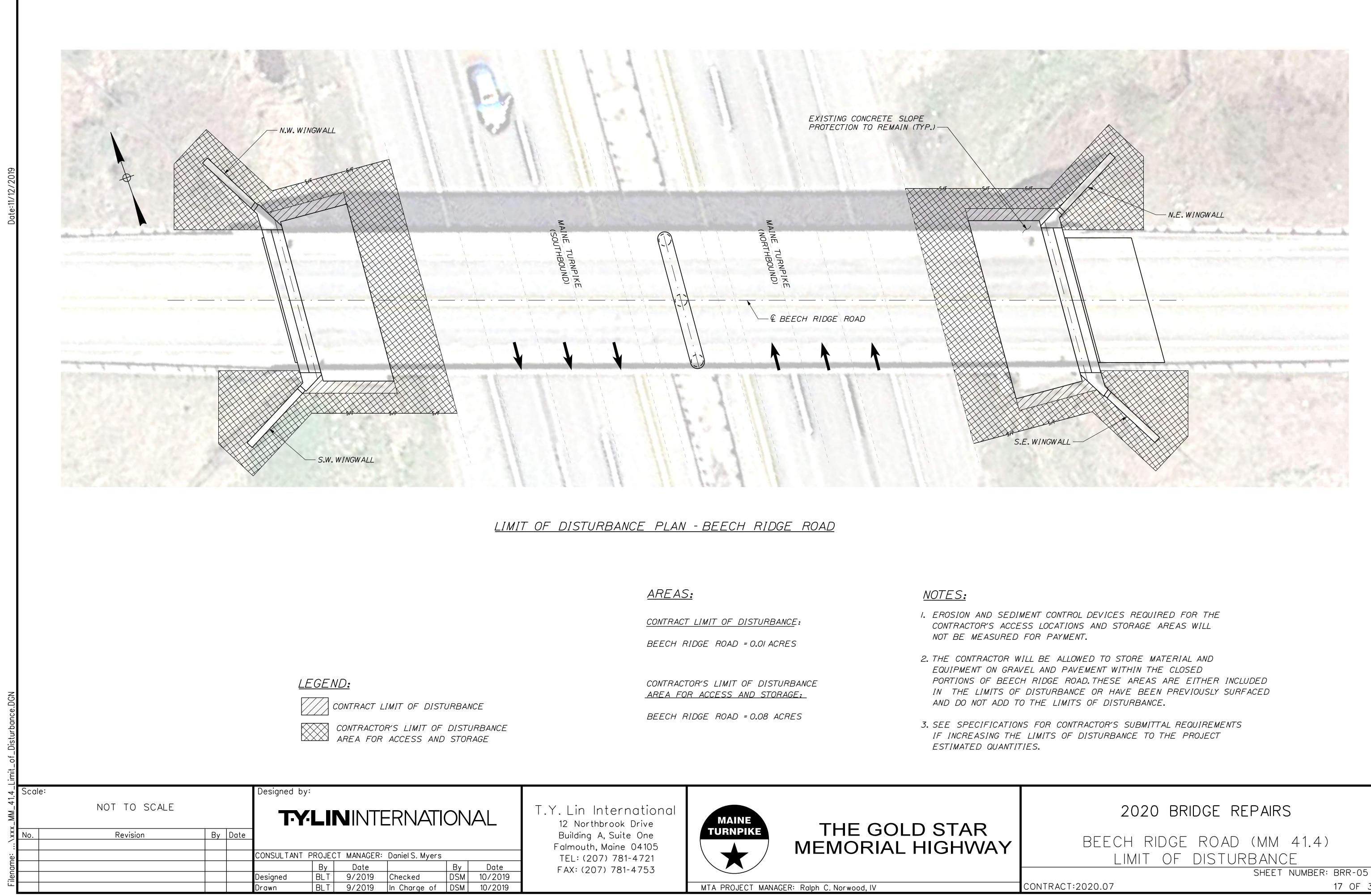


2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; [BEECH] Black D 2K; [RIDGE] Black D 2K; [ROAD] Black D 2K;

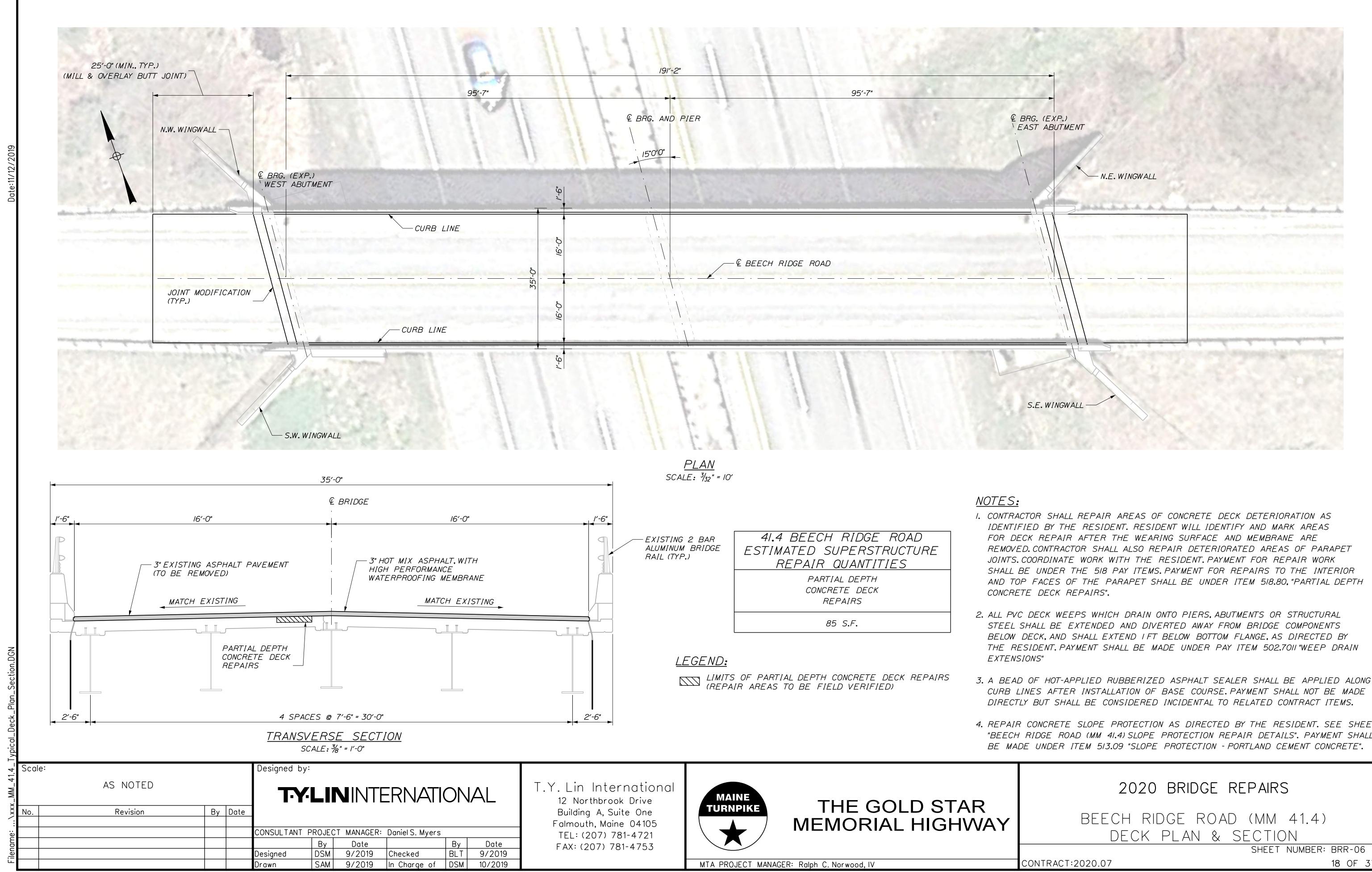
2020 BRIDGE REPAIRS BEECH RIDGE ROAD (MILE 41.4) SIGN SUMMARY

CONTRACT:2020.07

SHEET NUMBER: BRR-04

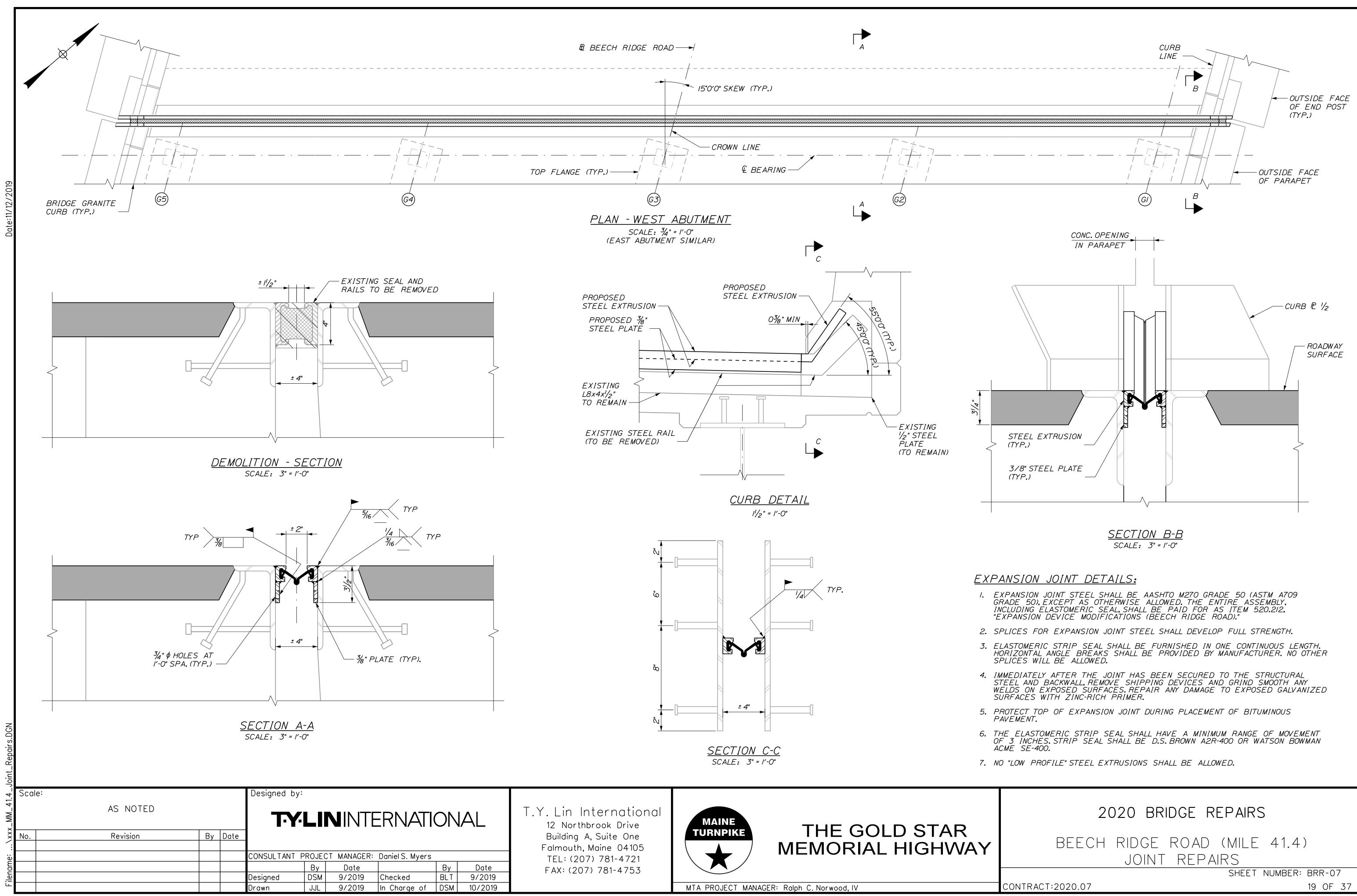


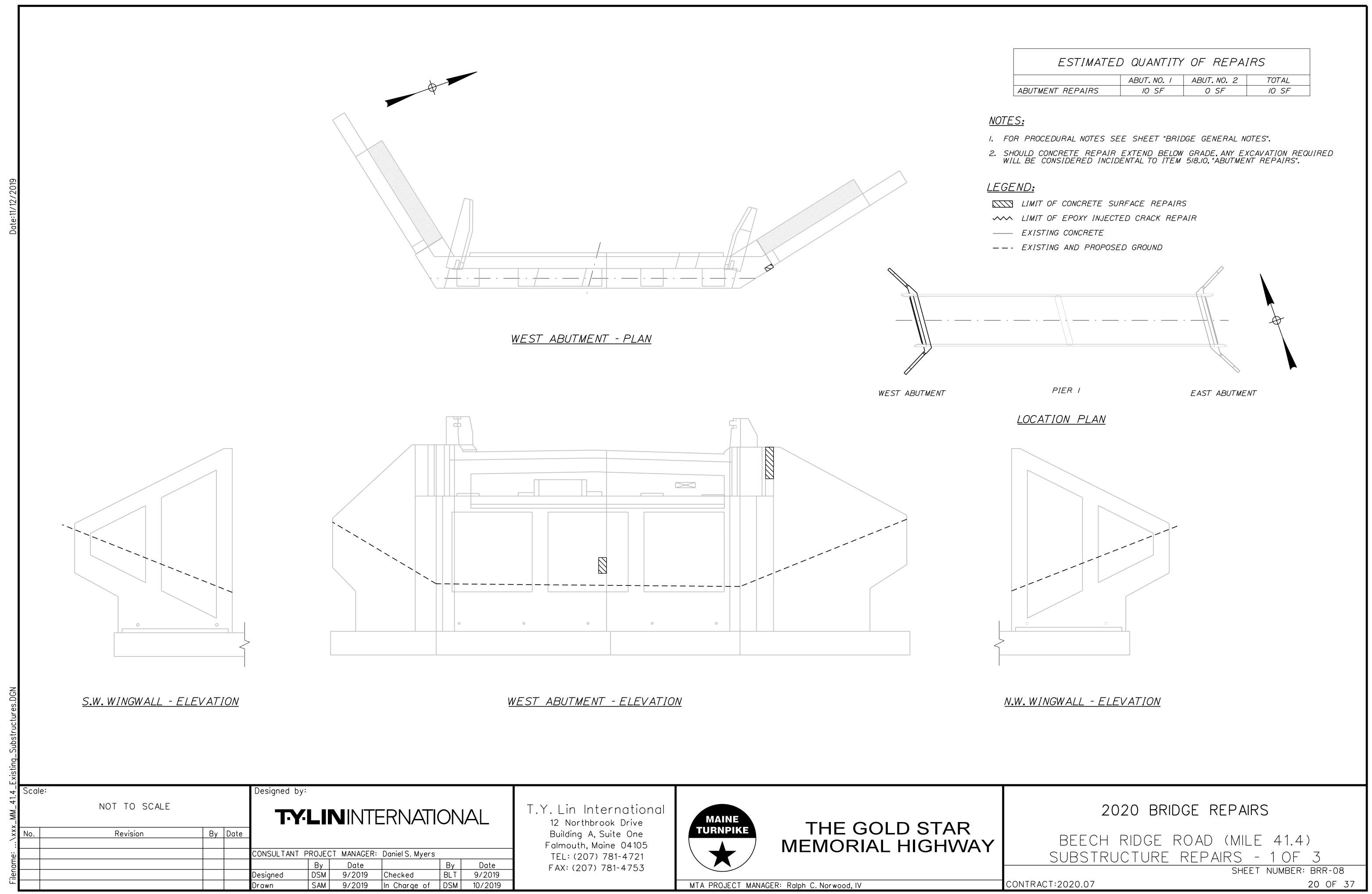
17 OF 37



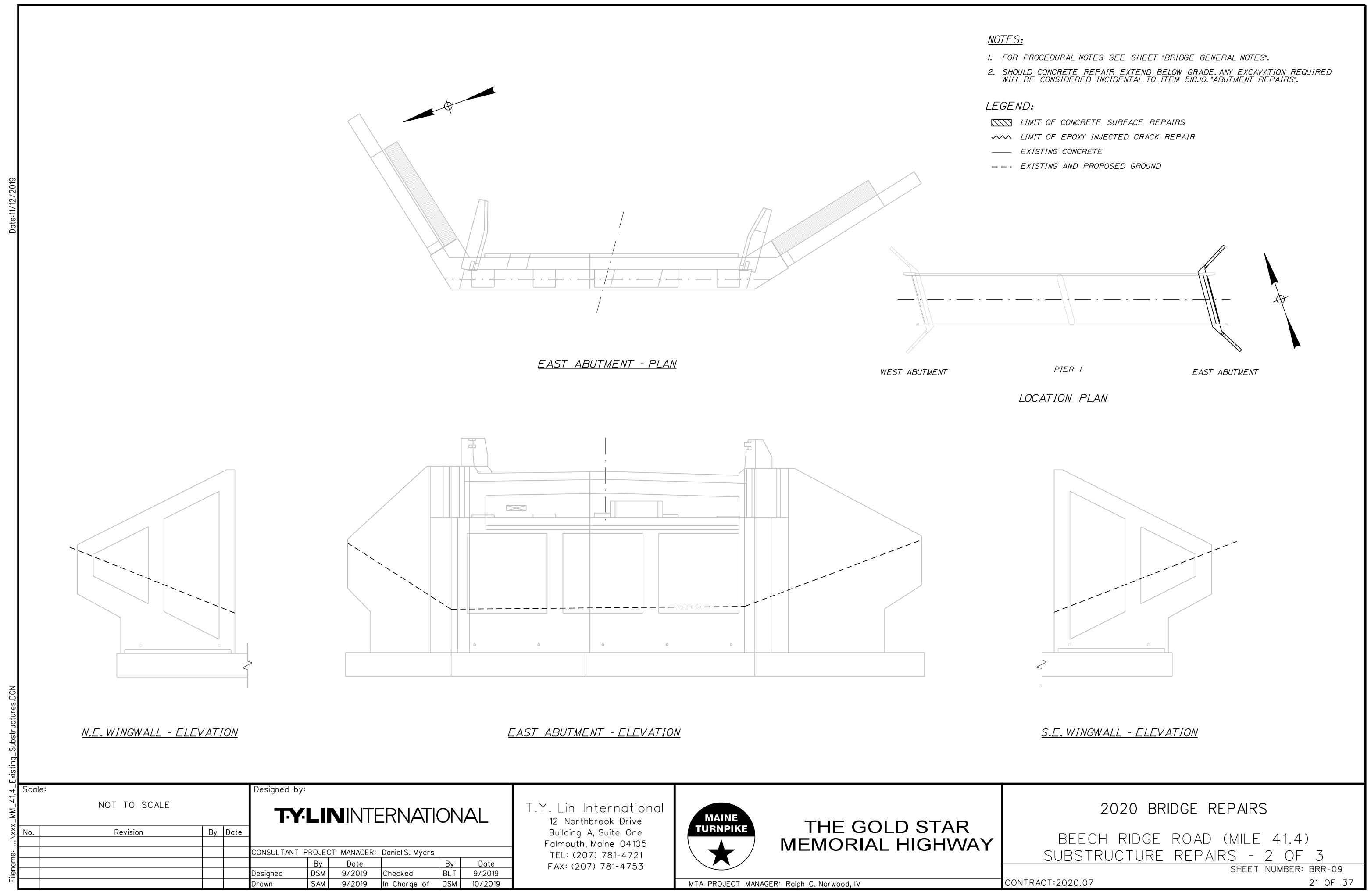
4. REPAIR CONCRETE SLOPE PROTECTION AS DIRECTED BY THE RESIDENT. SEE SHEET "BEECH RIDGE ROAD (MM 41.4) SLOPE PROTECTION REPAIR DETAILS". PAYMENT SHALL BE MADE UNDER ITEM 513.09 "SLOPE PROTECTION - PORTLAND CEMENT CONCRETE".

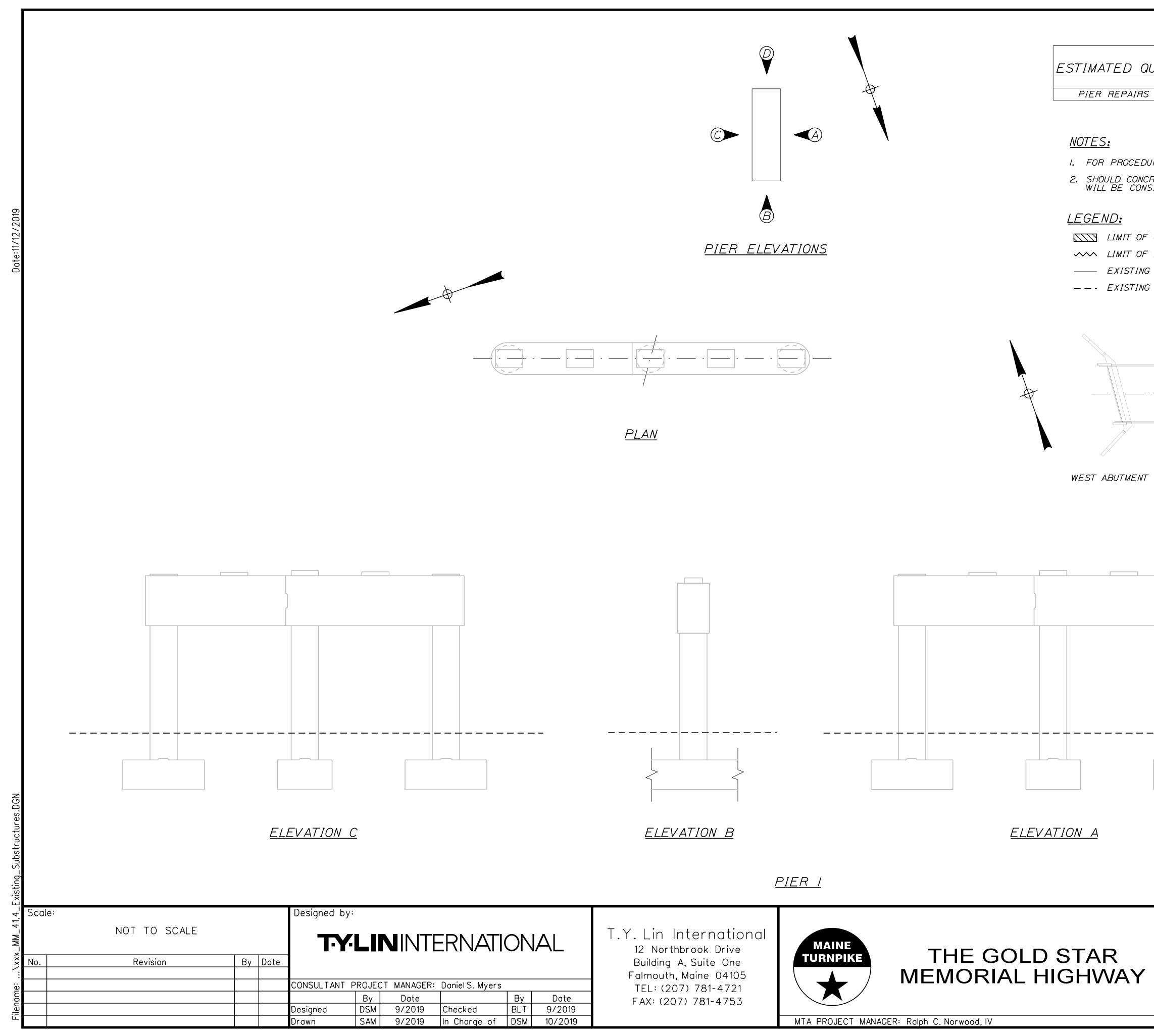
SHEET NUMBER: BRR-06





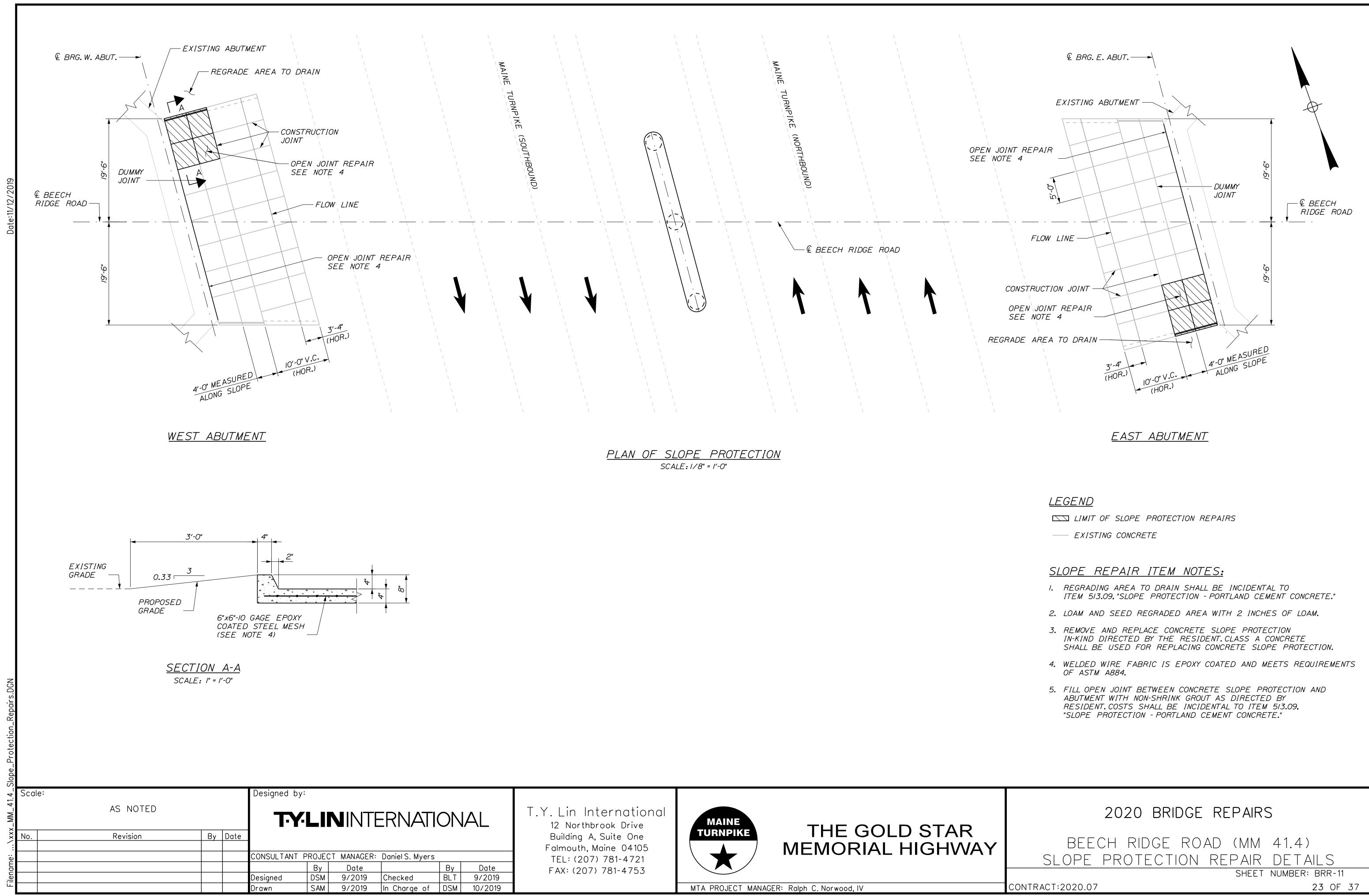
ESTIMATED QUANTITY OF REPAIRS								
	ABUT.NO. I	ABUT. NO. 2	TOTAL					
ABUTMENT REPAIRS	IO SF	0 SF	IO SF					

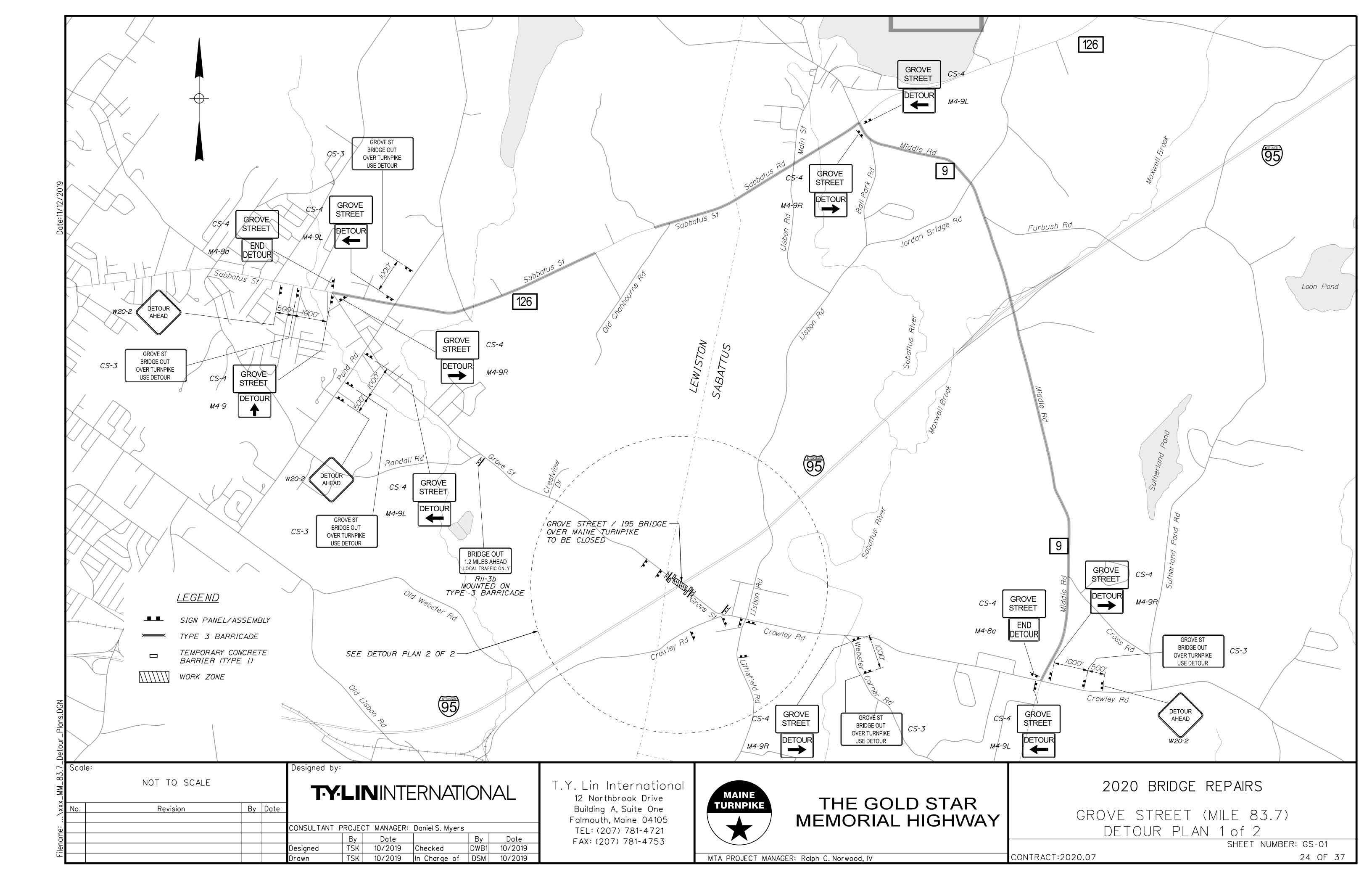


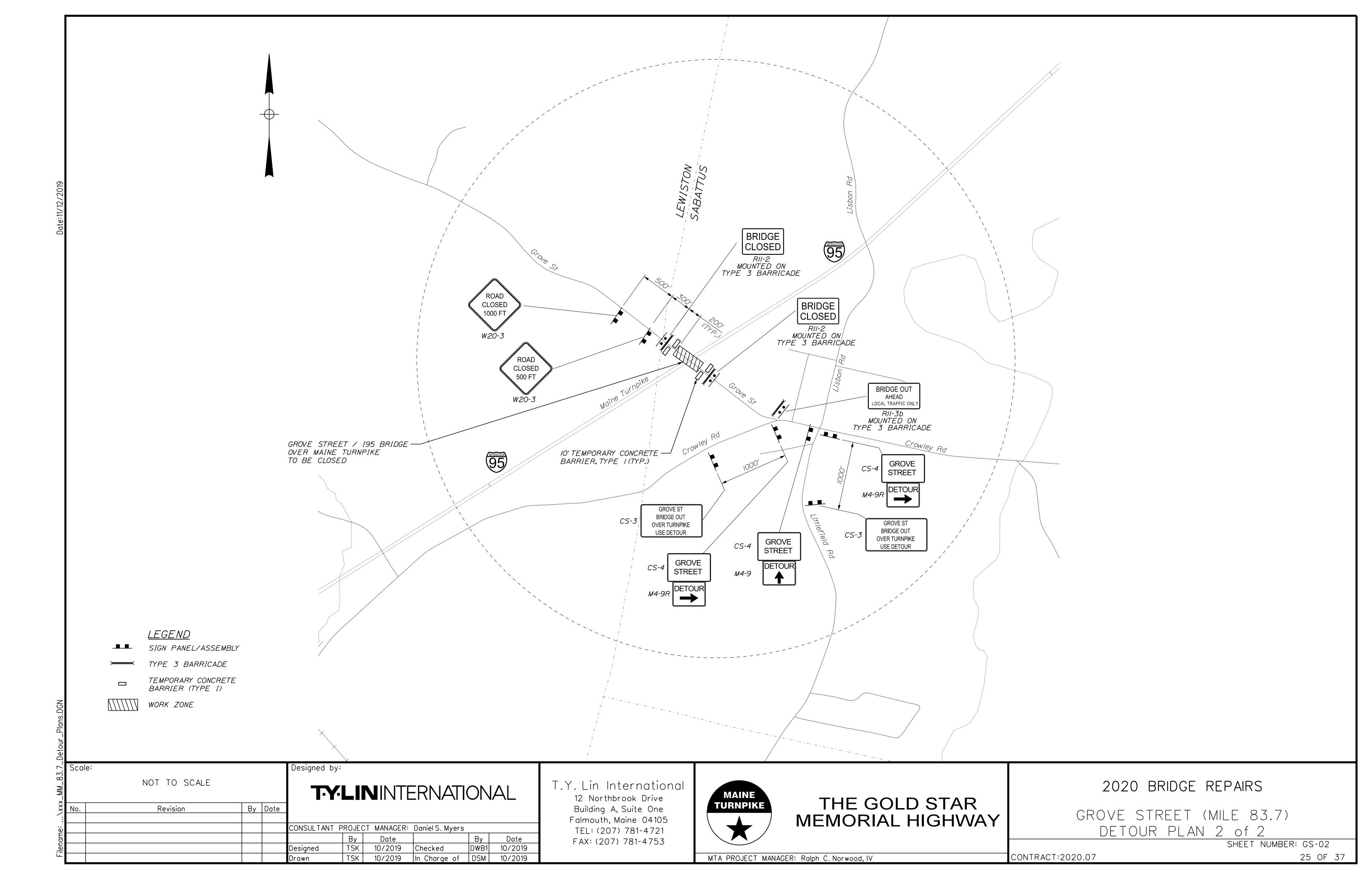


	REPAIRS R NO. 1 SF		
CRETE REPAIR EX	SHEET "BRIDGE GENE TEND BELOW GRADE,A TAL TO ITEM 518.20,"P	NY EXCAVATION RE	EQUIRED
F CONCRETE SURFA F EPOXY INJECTED G CONCRETE G AND PROPOSED	CRACK REPAIR		
т <u>/</u>	PIER I OCATION PLAN		EAST ABUTMENT
			VATION D

2020 BRIDGE REPAIRS BEECH RIDGE ROAD (MILE 41.4) SUBSTRUCTURE REPAIRS - 3 OF 3 SHEET NUMBER: BRR-10 CONTRACT:2020.07 22 OF 37







IDENTIFI-		EOF	TEXT		MENSIONS		NUMBER OF SIGNS			BORDER	AREA IN	NOTES
CATION NUMBER		IGN HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE.MKR.	SIGNS REQUIRED	BACK- GROUND	LEGEND BORDER	RADIUS	SQUARE FEET	NUTLS
CS-1	48"	48"	EXPECT STOPPED TRAFFIC	8C 8C 8C	4" 4"		4	ORANGE	BLACK		16.00 (64)	
CS-2	48"	48"	TRUCKS ENTERING	7C 7C	6"		1	ORANGE	BLACK		16.00 (16)	
G20-2	36"	24"	END ROAD WORK	CONFO	 DIMENSION DRM TO "ST VAY SIGNS"	ANDARD	9	ORANGE	BLACK		6.00 (54)	
G20-5aP	48"	24"	WORK ZONE				2	ORANGE	BLACK		8.00 (16)	
R2-1	48"	60"	SPEED LIMIT 60				2	WHITE	BLACK		20.00 (40)	
R2-6aP	36"	24"	FINES DOUBLE				2	WHITE	BLACK		6.00 (12)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT				4	WHITE	BLACK		13.50 (54)	
W3-4	48"	48"	BE PREPARED TO STOP				4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	48"	SPEED LIMIT 60				4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48"	48"					4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W8-1	48"	48"	BUMP				4	ORANGE	BLACK		16.00 (64)	
W8-24a	48"	48"	RUMBLE STRIPS AHEAD	V	V	V	4	ORANGE	BLACK		16.00 (64)	
W8-1 W8-24a			RUMBLE STRIPS				4					16.00 (64) 16.00
le:	Re	evision	By Date	Designed by T-Y	LIN	IINTE			λL	12 B	2 Northbro Juilding A, S	

Designed Drawn

[0.77					AENSIONS		NUMBER	COL				
IDENTIFI- CATION		E OF GN	TEXT	LETT		MENSIONS VERTICAL		1 <i>OF</i>	COL BACK-	LEGEND	BORDER	AREA IN SQUARE	NOTES
NUMBER		HEIGHT		HEIG		SPACING	RTE. MKR.	SIGNS REQUIRED	GROUND	BORDER	RADIUS	FEET	
WI6-4P	36"	30"	NEXT 1000 FEET	CON	IFOR	IMENSIONS M TO "STA Y SIGNS" -	S SHALL	4	ORANGE	BLACK		7.50 (30)	
W2O-I (AHEAD) (I MILE)	48" 48"	48" 48"	ROAD WORK AHEAD					10 4	ORANGE	BLACK		16.00 (160) 16.00 (64)	
W2O-5 (LEFT) (RIGHT)	48"	48"	LEFT LANE CLOSED 1/2 MILE					4	ORANGE	BLACK		16.00 (64) 16.00 (64)	
W2I-5	48"	48"	SHOULDER WORK					3	ORANGE	BLACK		16.00 (48)	
W2I-5aR RIGHT	48"	<i>48</i> "	RIGHT SHOULDER CLOSED					2	ORANGE	BLACK		16.00 (32)	
W2I-5bR RIGHT	48"	48"	RIGHT SHOULDER CLOSED 1000 FT	V		V	V	2	ORANGE	BLACK		16.00 (32)	

MAINE TURNPIKE \star
 By
 Date
 By
 Date

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 10/2019
 Checked
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 10/2019

 TWA
 10/2019
 In Charge of
 DSM
 10/2019
 FAX: (207) 781-4753



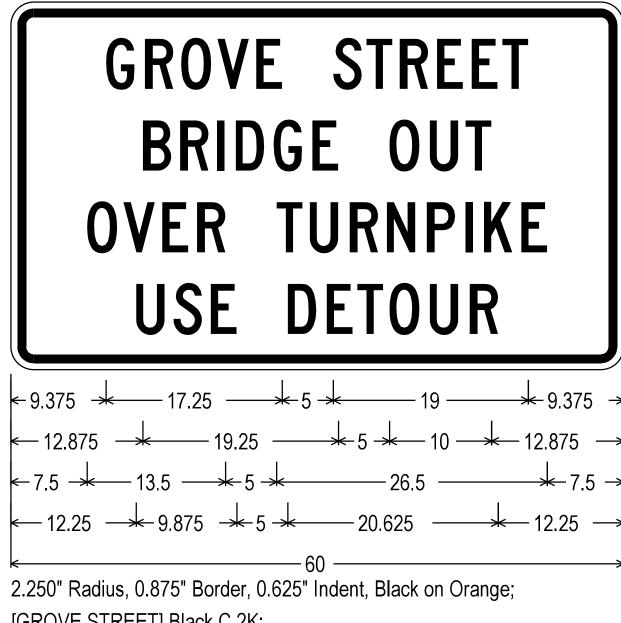
MTA PROJECT MANAGER: Ralph C. Norwood, IV

2020 BRIDGE REPAIRS GROVE STREET (MILE 83.7) SIGN SUMMARY SHEET NUMBER: GS-03 CONTRACT:2020.07 26 OF 37

NUMBER WIDTH PETERT ILLING LETOR SPACING RTELING SUBJER ORDER NADUS SUBJER	IDENTIFI-					IMENSIONS		NUMBER OF	COL		BORDER	AREA IN	
CS-360°40°BRIDGE UIT OVER TURPINE USE DETOUR5C 5C 	CATION NUMBER			TEXT				SIGNS	BACK- GROUND	LEGEND BORDER		SQUARE FEET	NOTES
CS-436'24'GROVE STREET $\begin{array}{c} 50 \\ 50 \\ 50 \\ 2.5' \end{array}$ $\begin{array}{c} 14 \\ 97 \\ 2.5' \end{array}$ $\begin{array}{c} 9AARGE \\ 9AARGE \\ 9LACK \end{array}$ $\begin{array}{c} 6.00 \\ 9.6' \\ 9.6' \end{array}$ M4-8024'16' $\begin{array}{c} 100 \\ DETOURTEXT DIMENSIONS SHALL COMPORE TO 'STANDADD' 10' STANDADD' 10' STAND$	CS-3	60"	40"	BRIDGE OUT OVER TURNPIKE	5C 5C	4"		7	ORANGE	BLACK			
M4-Ba 24' IB' INOR CONFORM TO 'STANDARD HIGHWAY SIGNS'-2009 2 ORANGE BLACK 3.00 (6) M4-9 30' 24' Image: Conference of STANDARD (6) 2 ORANGE BLACK 5.00 (6) M4-9(I) 30' 24' Image: Conference of STANDARD (10) 4 ORANGE BLACK 5.00 (20) M4-9(I) 30' 24' Image: Conference of STANDARD (10) 4 ORANGE BLACK 5.00 (20) M4-9(I) 30' 24' Image: Conference of STANDARD (20) 4 ORANGE BLACK 5.00 (20) M4-9(I) 30' 24' Image: Conference of Standard of	CS-4	36"	24"		5D	2" 2"		14	ORANGE	BLACK		6.00 (84)	
M4-930'24' $$	M4-8a	24"	/8"		CONFO	RM TO "STA	NDARD	2	ORANGE	BLACK			
M4-9(L)30°24° \blacksquare <	M4-9	30"	24"					2	ORANGE	BLACK			
M4-9(R) 30" 24" Image: state st	M4-9(L)	30"	24"					4	ORANGE	BLACK		5.00 (20)	
$HIF2$ 46° 30° $CLOSED$ $CLOSED$ I <	M4-9(R)	30"	24"					6	ORANGE	BLACK			
RII-3D GO* 30" AHEAD LOCAL TRAFFIC ONLY AHEAD LOCAL TRAFFIC ONLY AHEAD 2 WHITE BLACK 12.50 (25) W20-2 36" 36" JETOUR AHEAD Image: Comparison of the comparison of	RII-2	48"	30"					2	WHITE	BLACK			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RII-3b	60"	30"	AHEAD				2	WHITE	BLACK			
W20-3 (500) 36" ROAD CLOSED I ORANGE BLACK (9) 9.00	W20-2	36"	36"					3	ORANGE	BLACK		9.00 (27)	
(1000) 500 FT 1 1 1 1 (9)		36"	36"		√	V	V		ORANGE	BLACK		(9)	

:11/12/2019

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No.	Revision	By	Date						
				-					
				CONSUL TAN1	PROJEC	T MANAGER:	Daniel S. Myers		
				CONSULTANT	F PROJEC	T MANAGER: Date	Daniel S. Myers	Ву	
				CONSULTAN1 Designed			Daniel S. Myers Checked		(10



[GROVE STREET] Black C 2K; [BRIDGE OUT] Black C 2K; [OVER TURNPIKE] Black C 2K; [USE DETOUR] Black C 2K;

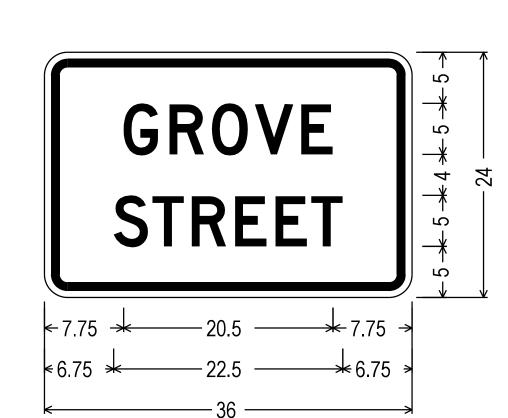
Date 10/2019 10/2019

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





MTA PROJECT MANAGER: Ralph C. Norwood, IV



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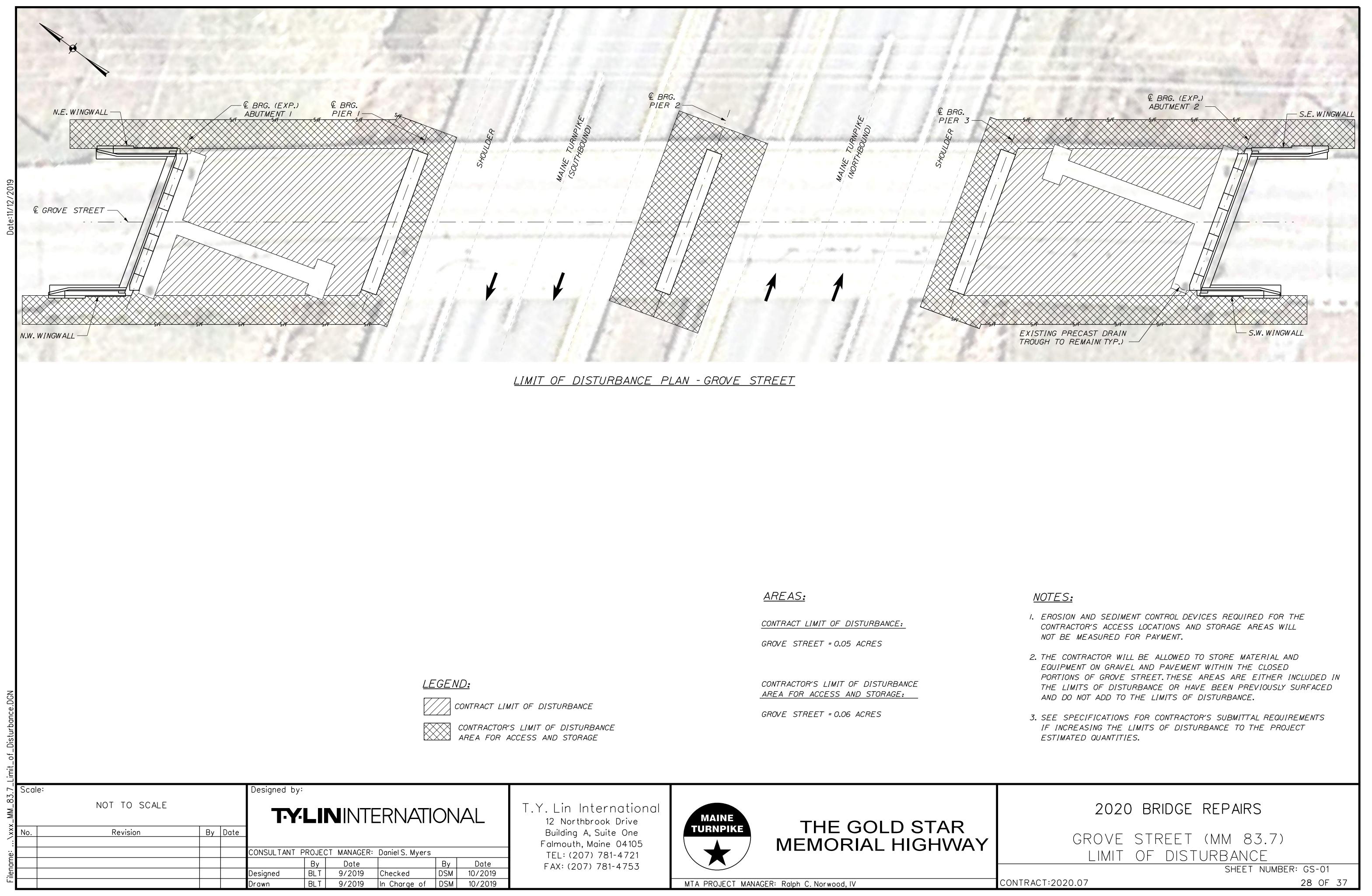
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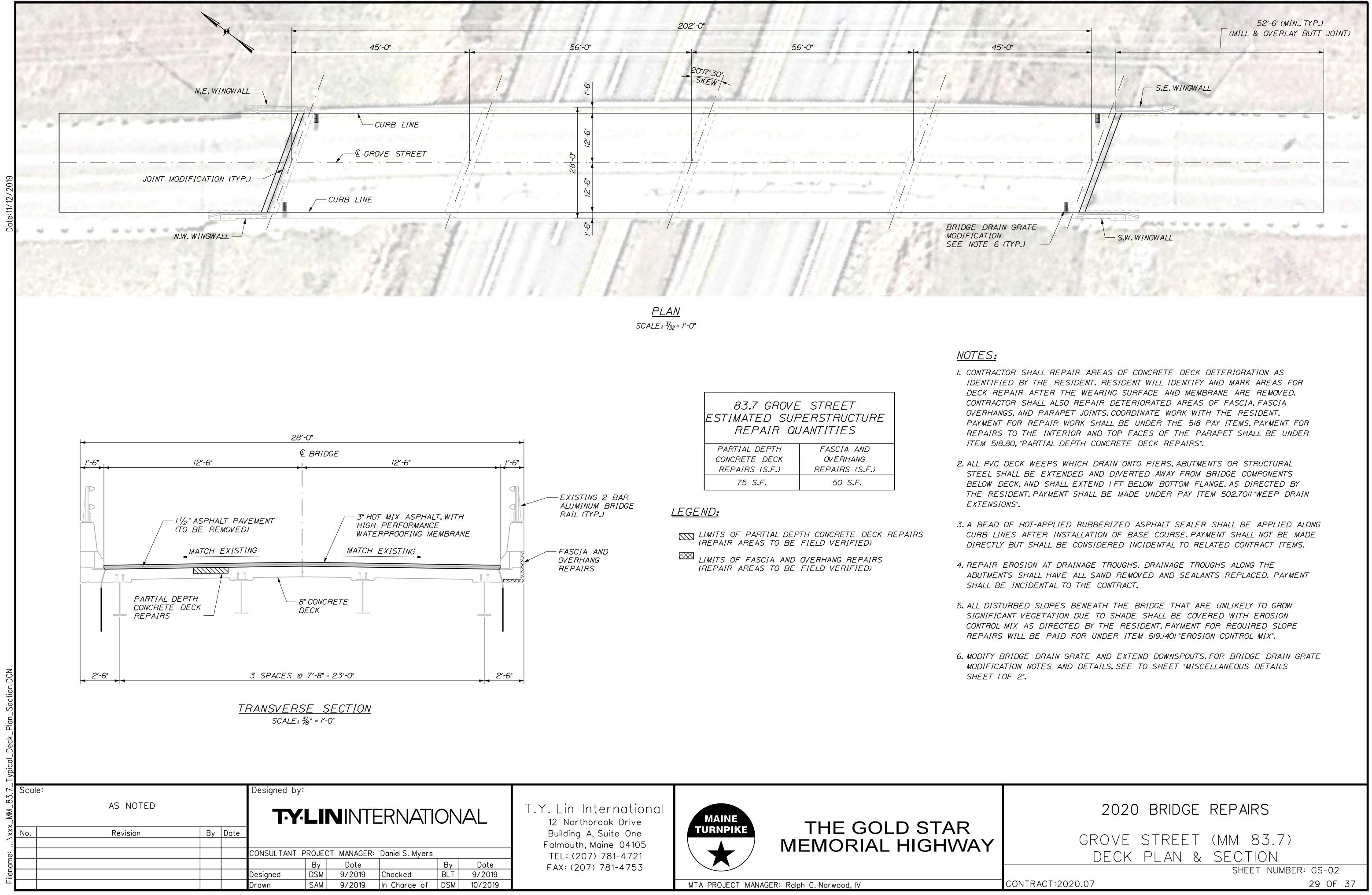
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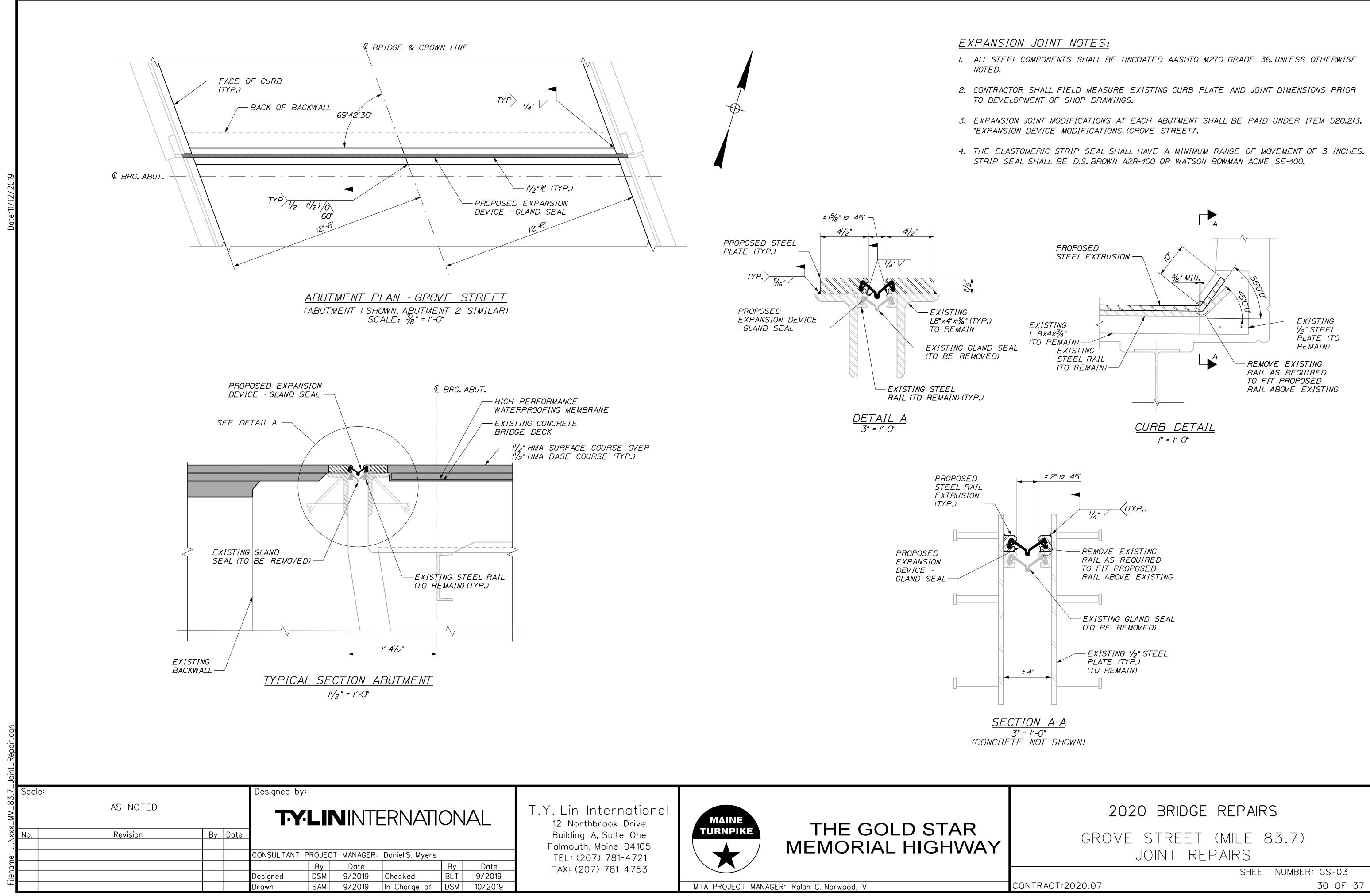
[GROVE] Black D 2K; [STREET] Black D 2K;

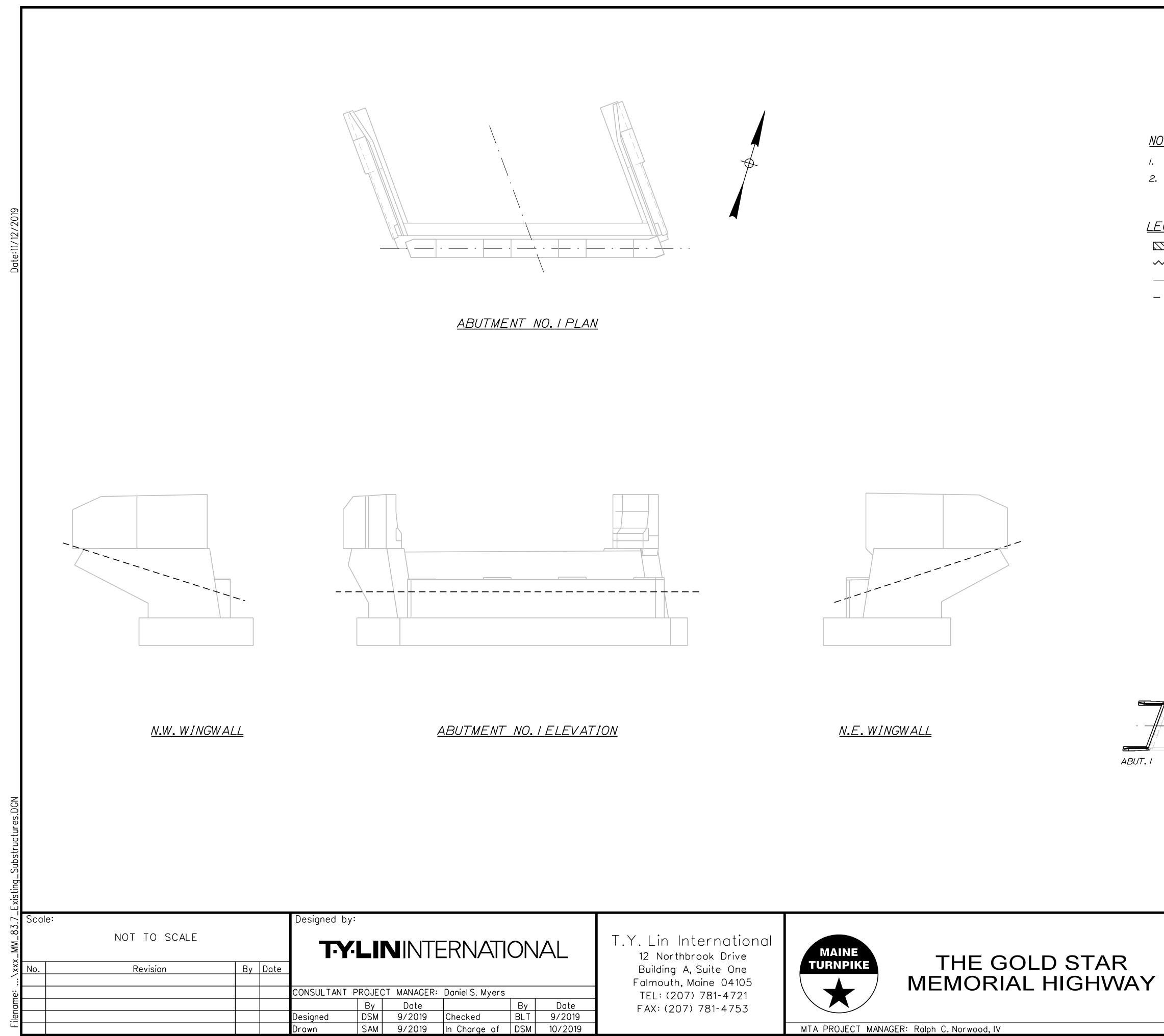
CONTRACT:2020.07





83.7 GROVE STREET ESTIMATED SUPERSTRUCTURE REPAIR QUANTITIES				
PARTIAL DEPTH	FASCIA AND			
CONCRETE DECK	OVERHANG			
REPAIRS (S.F.)	REPAIRS (S.F.)			
75 S.F.	50 S.F.			







ESTIMATED QUANTITY OF REPAIRS						
	ABUT.NO. I	ABUT.NO. 2	TOTAL			
ABUTMENT REPAIRS	0 SF	75 SF	0 SF			

<u>NOTES:</u>

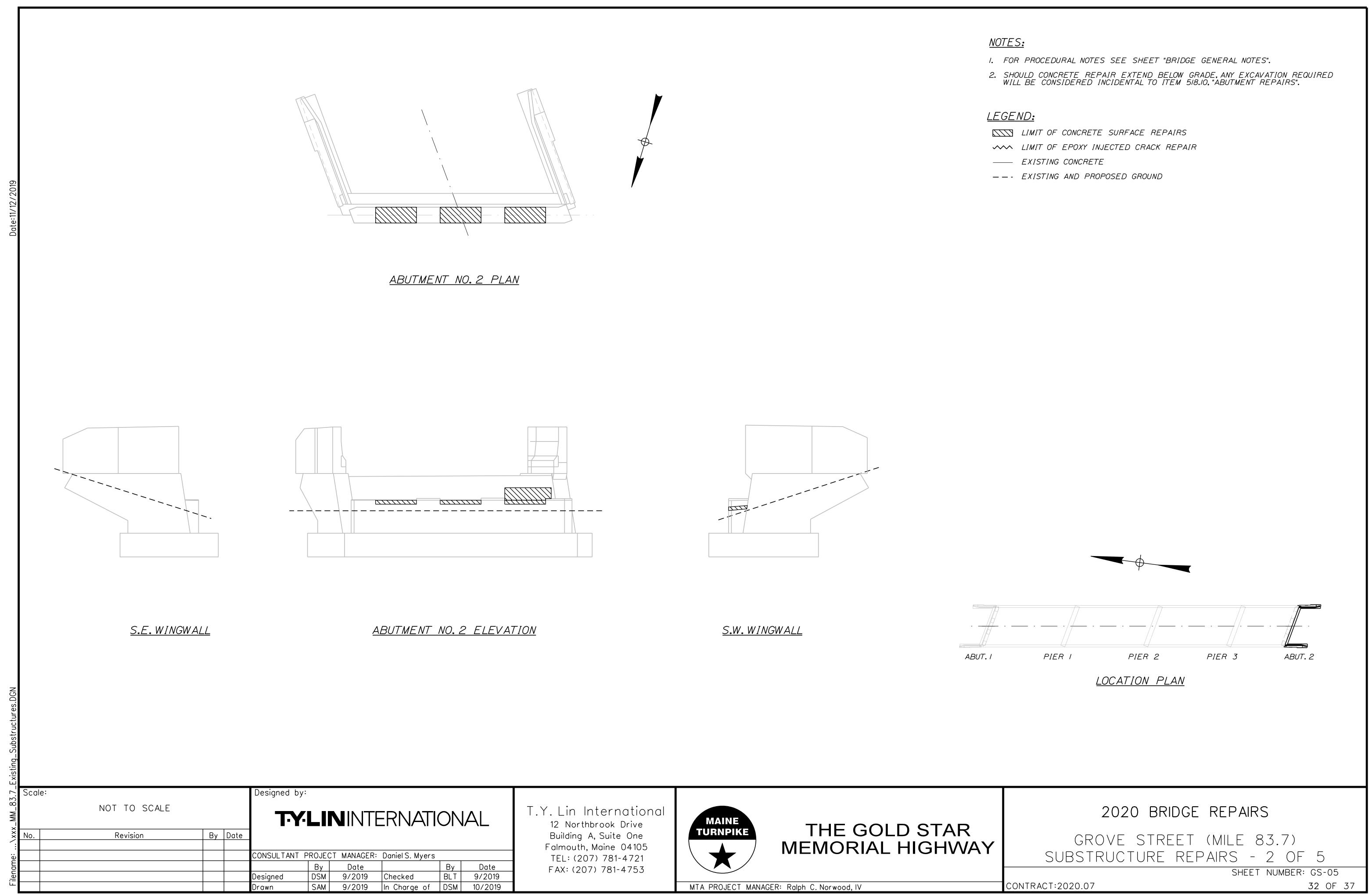
I. FOR PROCEDURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES". 2. SHOULD CONCRETE REPAIR EXTEND BELOW GRADE, ANY EXCAVATION REQUIRED WILL BE CONSIDERED INCIDENTAL TO ITEM 518.10, "ABUTMENT REPAIRS".

<u>LEGEND:</u>

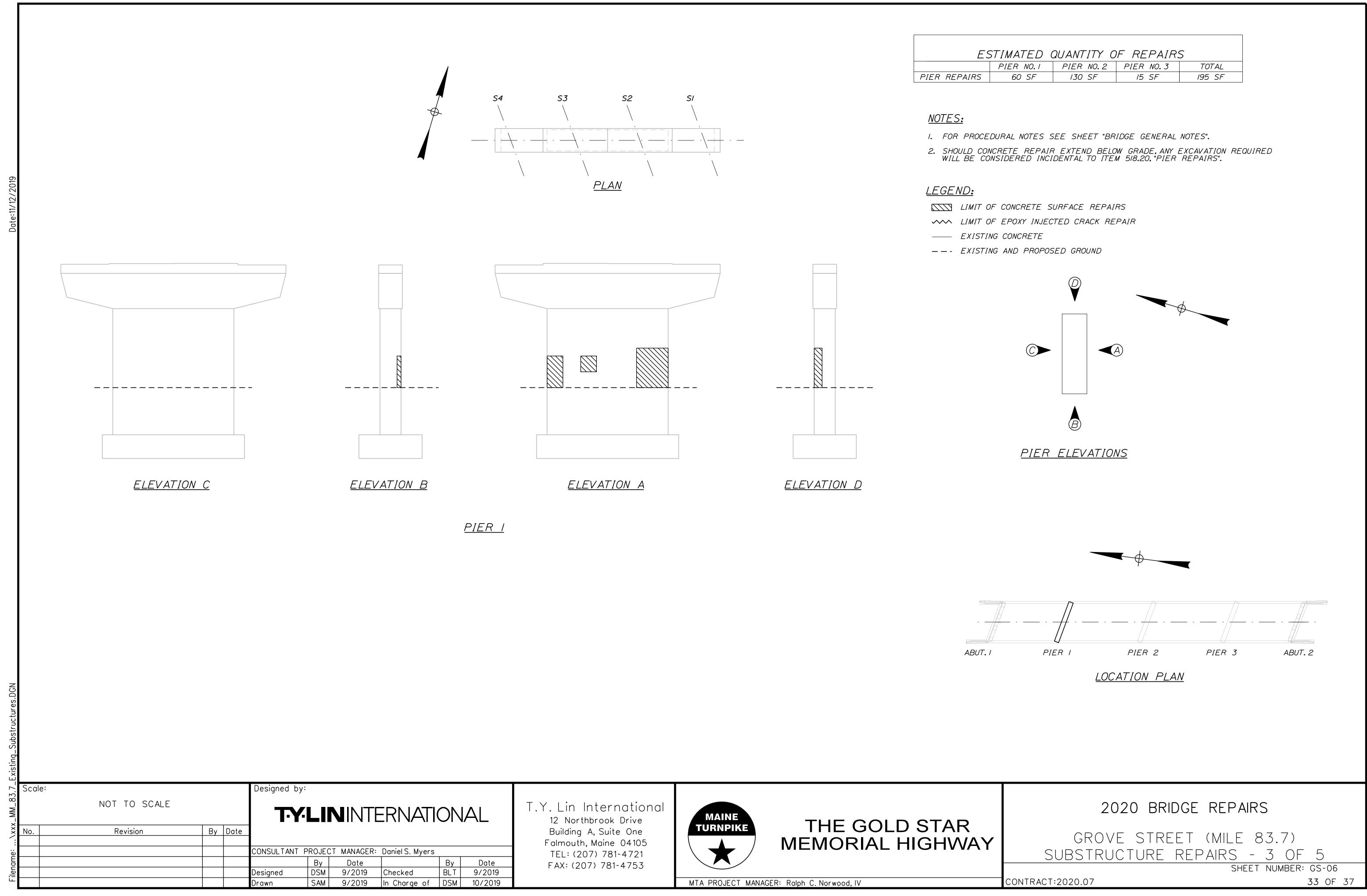
- LIMIT OF CONCRETE SURFACE REPAIRS
- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- --- EXISTING AND PROPOSED GROUND

PIER I PIER 2 PIER 3 ABUT. 2 LOCATION PLAN



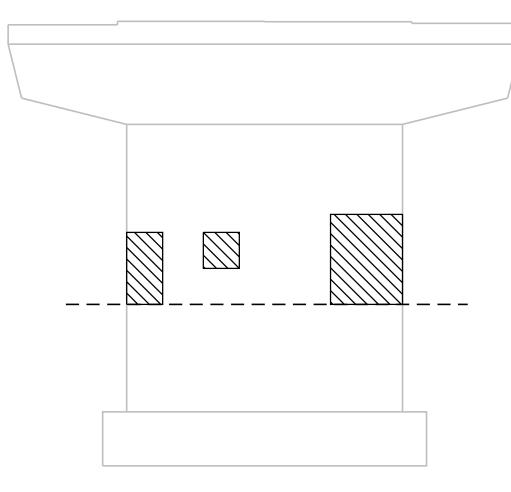




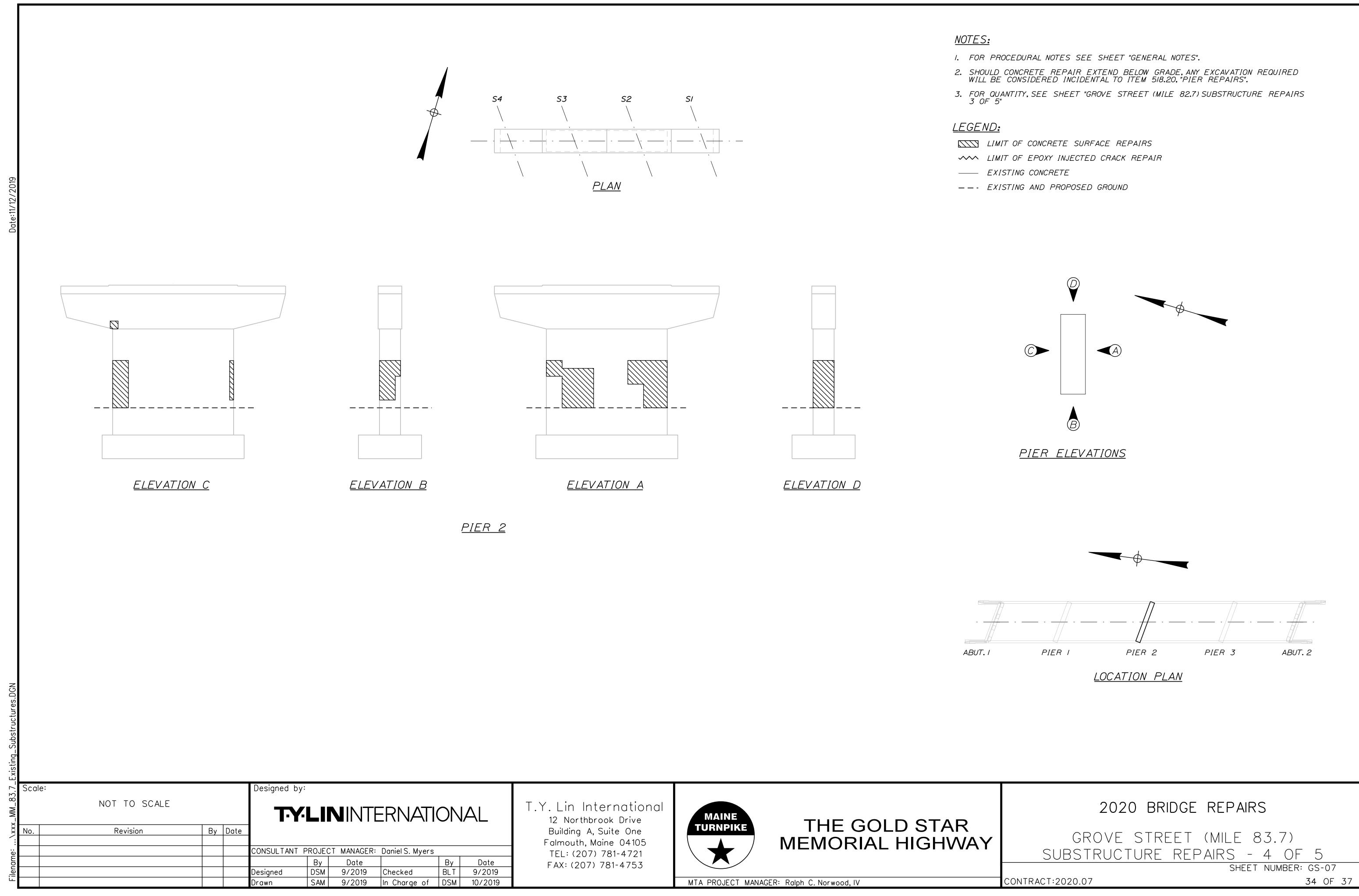


ESTIMATED QUANTITY OF REPAIRS						
	PIER NO.I	PIER NO.2	PIER NO.3	TOTAL		
PIER REPAIRS	60 SF	130 SF	15 SF	195 SF		

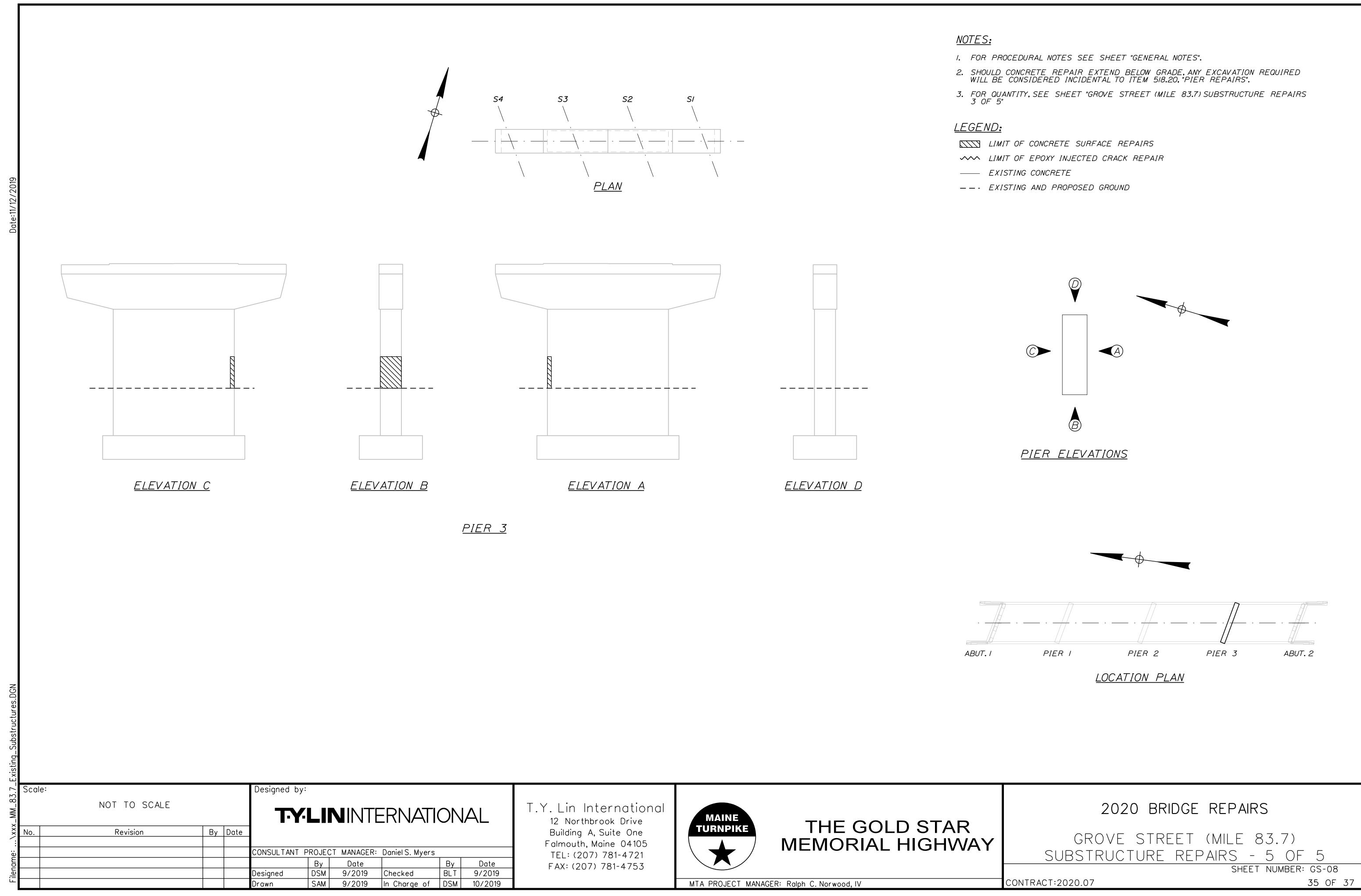




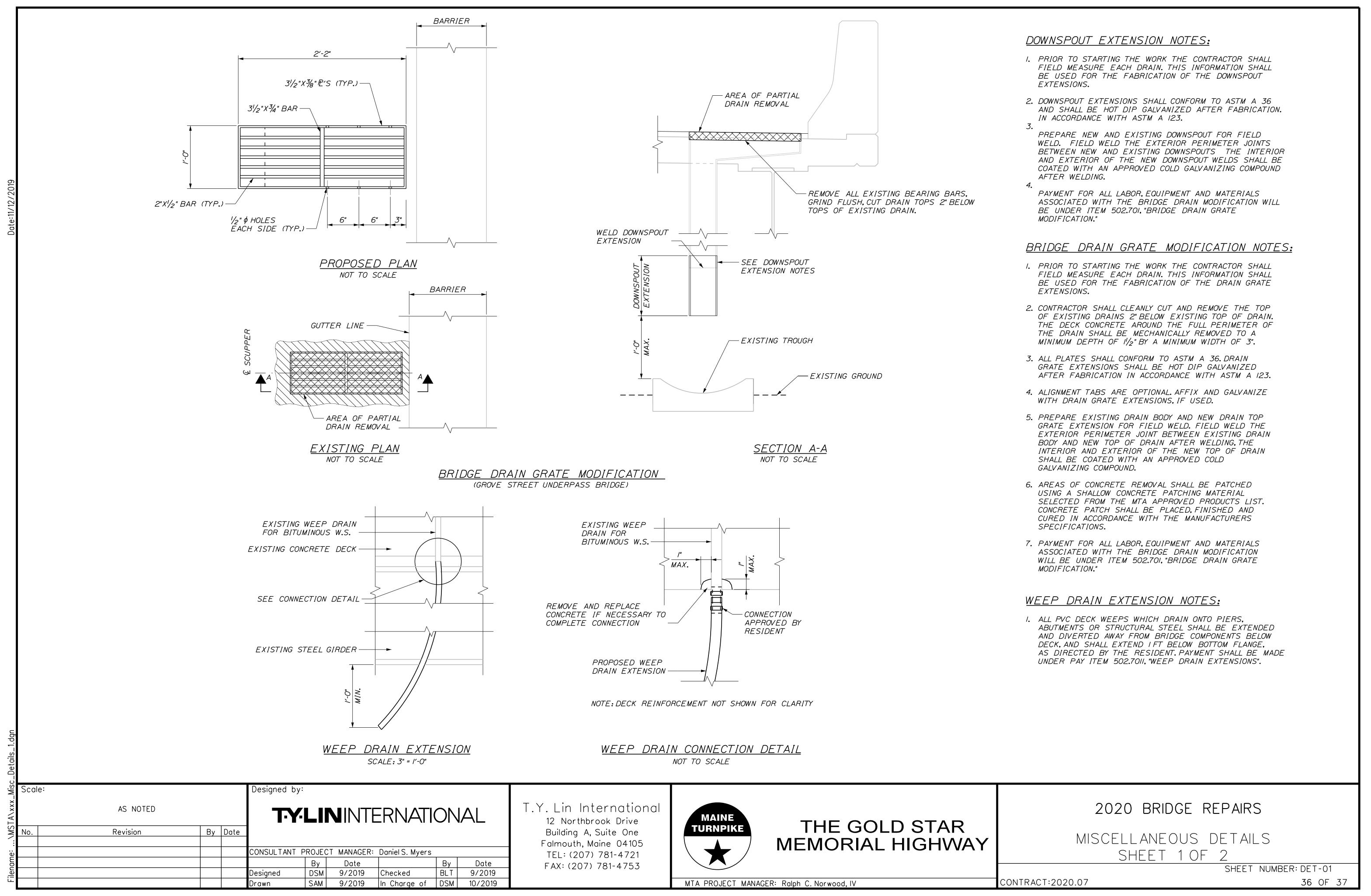


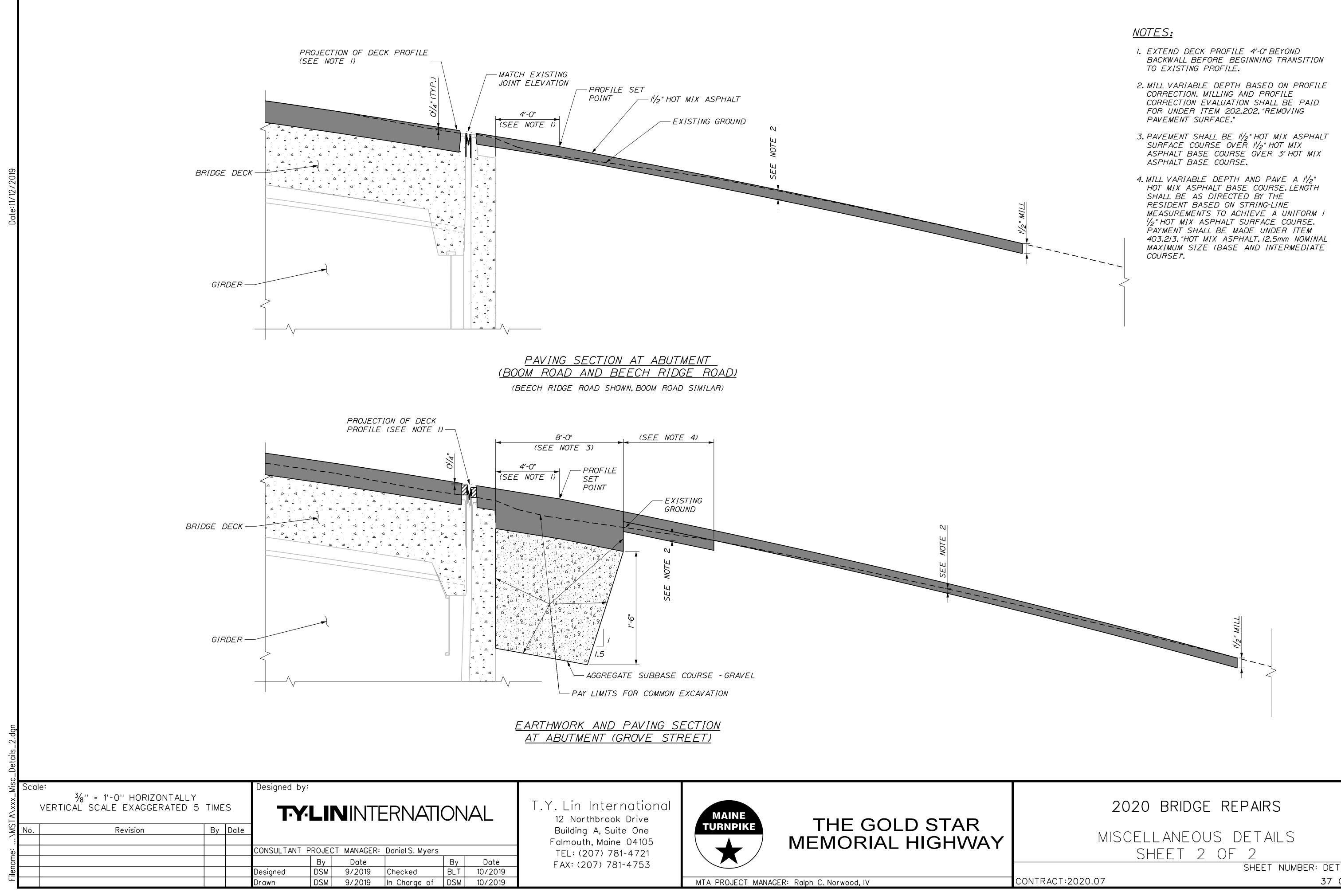












SHEET NUMBER: DET-02