

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	3B-BR, BR-1;(104B)BR-1)BDR, BRR	MARSHALL	72	1
		ILLINOIS	CONTRACT NO. 68G39	

INDEX OF SHEETS

- 1 COVER SHEET AND INDEX OF SHEETS
- 2 GENERAL NOTES & LIST OF STANDARDS & COMMITMENTS
- 3-10 SUMMARY OF QUANTITIES
- 11-20 TYPICAL SECTIONS
- 21-25 SCHEDULE OF QUANTITIES
- 26-27 ROADWAY REMOVAL PLANS
- 28-30 PLAN SHEETS
- 31-36 STAGING SHEETS
- STRUCTURAL PLANS
- 37-40 STRUCTURE NO. 062-0059
- 41-48 STRUCTURE NO. 062-0056
- 49-57 STRUCTURE NO. 062-0057
- 58-59 GUARDRAIL LENGTH OF NEED SHEETS
- 60 PAVEMENT MARKING AND SIGNAGE SHEET
- 61-63 MISCELLANEOUS DETAILS
- 64-70 DISTRICT DETAILS
- 71-72 TRAFFIC BARRIER TERMINAL TYPE 6 (MODIFIED) SHEETS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 318 (IL 29), FAP 645 (IL 17)
SECTION (3B-BR, BR-1;(104B)BR-1)BDR, BRR
PROJECT NHPP-HBFP-TQG7(735)
BRIDGE PRESERVATION
MARSHALL COUNTY

C-94-060-21

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

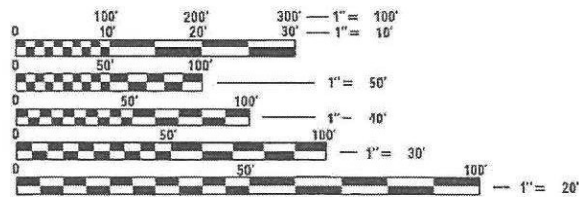
IL 29 (S.N. 062-0056)	IL 29 (S.N. 062-0057)	IL 17 (S.N. 062-0059)
ADT = 3250	2021 ADT = 7150	2021 ADT = 1100 (2023)
SU% = 4.31%	SU% = 4.55%	SU% = 6.36%
MU% = 9.23%	MU% = 5.24%	MU% = 22.73%



LOCATION OF SECTION INDICATED THIS: —

FUNCTIONAL CLASSIFICATION

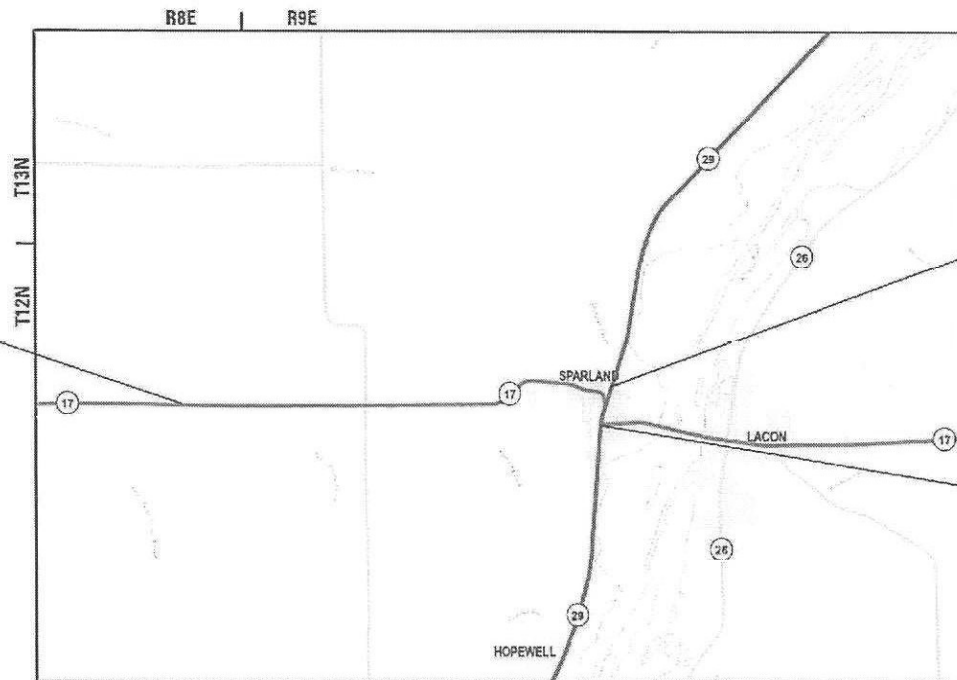
IL 29: OTHER PRINCIPAL ARTERIAL
IL 17: MINOR ARTERIAL



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

S.N. 062-0059
IL 17 OVER SENACHWINE
CREEK TRIBUTARY
STA. 248+11.71 TO
STA. 253+10.71



S.N. 062-0056
IL 29 OVER THENIUS CREEK
STA. 358+27.83 TO
STA. 362+88.17

S.N. 062-0057
IL 29 OVER GIMLET CREEK
STA. 383+08.56 TO
STA. 391+44.27

SCALE: 1" = 2.30 MI

GROSS LENGTH = 499.00 FT. + 460.34 FT. + 835.71 FT. = 0.340 MILE
NET LENGTH = 79.00 FT. + 137.00 FT. + 78.00 FT. = 0.056 MILE

PLANS PREPARED BY:

TWM ENGINEERING GEOSPATIAL SERVICES
4940 Old Collinsville Road
Swansea, Illinois 62226
Tel: 618.624.4488
www.twm-inc.com
ILLINOIS - MISSOURI - TENNESSEE
Illinois Professional Design Firm
No. 164-001220
License Expires: 04/30/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 23, 2023
Steph A. James
REGIONAL ENGINEER
October 13, 2023
Steph A. James
ENGINEER OF DESIGN AND ENVIRONMENT
October 13, 2023
Steph A. James
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



Timothy B. Padgett
TIMOTHY B. PADGETT, PE
LICENSE NO. 062-049162 EXPIRATION DATE 11-30-2023

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: NICOLE FAYANT (309-671-3454)
PROJECT MANAGER: KYLE HARRISON (309-671-3462)
CATALOG NO. 036205-00D
CONTRACT NO. 68G39

COMMITMENTS: NONE

AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (BORROW SITE REVIEW)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

STATUS OF UTILITIES

COMPANY	LOCATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
AMEREN ILLINOIS	SN 062-0056	ELECTRIC OVERHEAD LINES	STRUCTURE / GUARDRAIL	CAUTION
	SN 062-0057		STRUCTURE / GUARDRAIL	CAUTION
	SN 062-0059		STRUCTURE / GUARDRAIL	CAUTION
METRO COMMUNICATIONS CO.	SN 062-0056	FIBER OPTICS	STRUCTURE / GUARDRAIL	CAUTION
	SN 062-0057		STRUCTURE / GUARDRAIL	CAUTION
WINDSTREAM	SN 062-0057	FIBER OPTICS	STRUCTURE / GUARDRAIL	CAUTION

DROPOFFS

THE CONTRACTOR SHALL ORGANIZE THE WORK ON THIS PROJECT TO ELIMINATE ANY OVERNIGHT DROPOFFS GREATER THAN 9 INCHES AND WITHIN 8 FEET OF THE EDGE OF TRAVEL LANE.

BRIDGE OVERLAY NOTIFICATION

AFTER PLACEMENT OF THE BRIDGE DECK OVERLAY, THE RESIDENT ENGINEER SHALL NOTIFY THE DISTRICT BRIDGE MAINTENANCE ENGINEER OF THE "AS CONSTRUCTED" MILLING DEPTH AND OVERLAY THICKNESS FOR UPDATING THE ILLINOIS HIGHWAY INFORMATION SYSTEM.

BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/ PIPE CULVERTS, STORM SEWERS, AND/ OR PIPE DRAINS REQUIRED TO ORDERING THESE ITEMS.

SECURING DRAINAGE STRUCTURE GRATES

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEM.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442201-03	CLASS C & D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
604006-05	FRAME AND GRATE TYPE 3
606001-08	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
606301-04	PC CONCRETE ISLANDS & MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15 FT AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15 FT TO 24 IN FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH OR MORE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW-MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS 45 MPH OR MORE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782001-01	CURB REFLECTORS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HWYS

SURVEY

NO SURVEY WAS PERFORMED ON THIS PROJECT. ALL INFORMATION WAS OBTAINED FROM OLD PLANS AND THE INTERNET.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATION(S):	MAINLINE	SHOULDERS	MAINLINE	MAINLINE	WIDENING	WIDENING
MIXTURE USE(S):	SURFACE 2"	SURFACE 2"	PARTIAL DEPTH PATCHES	FULL DEPTH PATCHES	LOWER LIFT	UPPER LIFT
AC/PG:	PG 58-28	PG 58-28	PG 58-28	PG 58-28	PG 58-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION (MIXTURE GRADATION):	IL 9.5	IL 9.5	IL 9.5	IL 19.0	IL 19.0	IL 9.5
FRICTION AGGREGATE:	MIX D	MIX D	MIX D	N/A	N/A	MIX D
QUALITY MANAGEMENT PROGRAM:	QCP	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
MTD:	YES	YES	NO	NO	NO	YES

- NOTE:
- 1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - 2) FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LB/S.Y./IN., UNLESS OTHERWISE NOTED.
 - 3) SUBLOT SIZES FOR PFP AND QCP MIXES WILL BE 1000 TONS, UNLESS OTHERWISE AGREED TO BY THE ENGINEER AND THE PAVING CONTRACTOR.

MODEL Path: \\... TWM Consultant\Consultant Final Submittal 7-27-23\DOT Correctional\CADD Files\CADD Sheets\0468G39-shr-gennore.dgn

 TWM, INC. <small>www.twm-inc.com</small> IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = SUSERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, COMMITMENTS, AND HIGHWAY STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:20	CHECKED -	REVISED -			318	*	MARSHALL	72	2
PLOT DATE = 8/23/2023	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	*(3B-BR, BR-1; 104b)BR-1)BDR, BRR CONTRACT NO. 68G39		
							ILLINOIS		FED. AID PROJECT	

MODEL Path: \\S:\GENEXCEL\Studies & Plans\Sub 9 - Adhere\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-500.dgn
 FILE NAME: S:\GENEXCEL\Studies & Plans\Sub 9 - Adhere\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.1	0.1	0.05
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10	5	3	2
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10	5	3	2
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10	5	3	2
25000750	MOWING	ACRE	1.25	0.4	0.4	0.45
25100115	MULCH, METHOD 2	ACRE	0.25	0.1	0.1	0.05
28200200	FILTER FABRIC	SQ YD	72	28	44	
35100100	AGGREGATE BASE COURSE, TYPE A	TON	101		14	87
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	479	93	386	
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	537	199		338
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	10	3		7
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	28	13		15
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	961		122	839
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	856	188	198	470



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 1	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 3
*(3B-BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

MODEL Path: \\S:\GENEXCEL\Studies & Plans\Sub 9 - Adhere\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-SQ.dgn
 FILE NAME: S:\GENEXCEL\Studies & Plans\Sub 9 - Adhere\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-SQ.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1164	213	267	684
40600990	TEMPORARY RAMP	SQ YD	350	89	111	150
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	105	18	22	65
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	73			73
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	11			11
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	100			100
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	18			18
44000600	SIDEWALK REMOVAL	SQ FT	100			100
44004250	PAVED SHOULDER REMOVAL	SQ YD	700	372	192	136
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	23			23
44200180	PAVEMENT PATCHING, TYPE II, 15 INCH	SQ YD	23		23	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	8	4	4	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	62	22	21	19
48203100	HOT-MIX ASPHALT SHOULDERS	TON	21	6	12	3



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 2	OF 9	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	4
*(3B-BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

MODEL Path: \\s:\c\en\excel\studies & plans\saub 9 - Adhere\Contract\68G39 Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn
 FILE NAME: S:\en\excel\studies & plans\saub 9 - Adhere\Contract\68G39 Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
50102400	CONCRETE REMOVAL	CU YD	29.2	0.8	11.7	16.7
50105220	PIPE CULVERT REMOVAL	FOOT	25	25		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	31.4	0.8	12.4	18.2
50300260	BRIDGE DECK GROOVING	SQ YD	1929	463	744	722
50300300	PROTECTIVE COAT	SQ YD	2046	494	791	761
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4260	100	1640	2520
50800515	BAR SPLICERS	EACH	48		24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	212		84	128
54213450	END SECTIONS 15"	EACH	2	2		
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	48	48		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	368	238	130	
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	88	88		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	3	4	

*= SPECIALTY ITEM



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 3	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	5
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL Path: \\s:\c\engineers\studies & plans\saub 9 - Adena\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn
 FILE NAME: S:\ENGINEERS\studies & plans\saub 9 - Adena\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
63200310	GUARDRAIL REMOVAL	FOOT	1151	643	508	
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	1			1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	2	2
67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.34
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.33	0.33	0.34
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1			1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1			1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1			1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1			1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	5	5	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3	1	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	18	6	6	6



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:				SHEET 4 OF 9 SHEETS				STA. TO STA.			
--------	--	--	--	---------------------	--	--	--	--------------	--	--	--

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	6
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

MODEL Path: \\s:\c\excel\studies & plans\sub 9 - Adena\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn
 FILE NAME: S:\c\excel\studies & plans\sub 9 - Adena\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	6045	738	1765	3542
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	106			106
70107012	PAVEMENT MARKING BLACKOUT TAPE, 12"	FOOT	367			367
70107024	PAVEMENT MARKING BLACKOUT TAPE, 24"	FOOT	44			44
70300100	SHORT TERM PAVEMENT MARKING	FOOT	244	36	87	121
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3127	318	748	2061
70303100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - MODIFIED URETHANE	SQ FT	31			31
70303120	TEMPORARY PAVEMENT MARKING - LINE 4" - MODIFIED URETHANE	FOOT	4421	444	944	3033
70303160	TEMPORARY PAVEMENT MARKING - LINE 12" - MODIFIED URETHANE	FOOT	206			206
70303210	TEMPORARY PAVEMENT MARKING - LINE 24" - MODIFIED URETHANE	FOOT	54			54
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1175	400.0	462.5	312.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1050	400.0	437.5	212.5
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	9	4	4	1
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1			1



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 5	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 7
*(3B-BR-1;(104b)BR-1)BDR,BRR		CONTRACT NO. 68G39		
ILLINOIS		FED. AID PROJECT		

MODEL Path: \\s:\c\GENEXCEL\studies & plans\saub 9 - Adhera\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn
 FILE NAME: S:\GENEXCEL\studies & plans\saub 9 - Adhera\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-S00.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1			1
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	5	2	2	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	6			6
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1			1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	3	4	
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	10			10
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1			1
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	31			31
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4706	444	944	3318
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	206			206
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	68			68
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7		1	6
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	32	16	16	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	143	49	56	38

*= SPECIALTY ITEM



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 6	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	8
*(3B-BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: S:\GENEXCEL\Studies & Plans\Squad B - Arlene\Contract\68G39 Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT_Corrections\CADD_Sheets\CADD_Sheets\0468G39-ht-500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7		1	6
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1819	148	315	1356
X0326444	SURFACE FILLER (SPECIAL)	GALLON	1.7	1.7		
X4421002	PARTIAL DEPTH PATCHING (SPECIAL)	SQ YD	67	44		23
X1700005	ISLAND PAVEMENT (SPECIAL)	SQ FT	130			130
X1700108	CURB AND GUTTER (SPECIAL)	FOOT	29		14	15
X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	76	76		
X2810812	STONE DUMPED RIPRAP, CLASS B4 (SPECIAL)	TON	48	18	30	
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	12	3	3	6
X4420201	PAVEMENT PATCHING (SPECIAL)	SQ YD	21			21
X4421000	PARTIAL DEPTH PATCHING	TON	7	4		3
X4811900	AGGREGATE SHOULDERS (SPECIAL)	TON	16	6	6	4
X5015225	PIPE CULVERT REMOVAL (SPECIAL)	FOOT	28	28		
X5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	112	11.2		

TWM, INC.
 WWW.TWM-INC.COM
ENGINEERING
GEOSPATIAL SERVICES

USER NAME = SUSER\$
 PLOT SCALE = 1:40
 PLOT DATE = 9/1/2023

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REV(SED) -
 REV(SED) -
 REV(SED) -
 REV(SED) -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31s		MARSHALL	12	9
*(3B-BR, BR-1; (104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS I. FED. AID. PROJECT				

MODEL Path: \\S:\CEN\EXCEL\Studies & Plans\Sub 9 - Adhere\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-500.dgn
 FILE NAME: S:\CEN\EXCEL\Studies & Plans\Sub 9 - Adhere\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-500.dgn

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	IL 17	IL 29	IL 29
				S.N. 062-0059	S.N. 062-0056	S.N. 062-0057
				MARSHALL COUNTY	MARSHALL COUNTY	MARSHALL COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				0047	0047	0047
RURAL	URBAN	URBAN				
X6050310	FILLING INLETS, SPECIAL	EACH	4	2	2	
* X6310187	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)	EACH	4		4	
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	90	25	65	
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	2	1	1	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1			1
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1		0.5	0.5
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	259	141	118	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1967	494	759	714
Z0012162	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	1967	494	759	714
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.33	0.33	0.34
∅ Z0076600	TRAINEES	HOUR	1,000	1,000		
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		

∅ 0042 *= SPECIALTY ITEM



TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 9/1/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 8	OF 9 SHEETS	STA. TO STA.

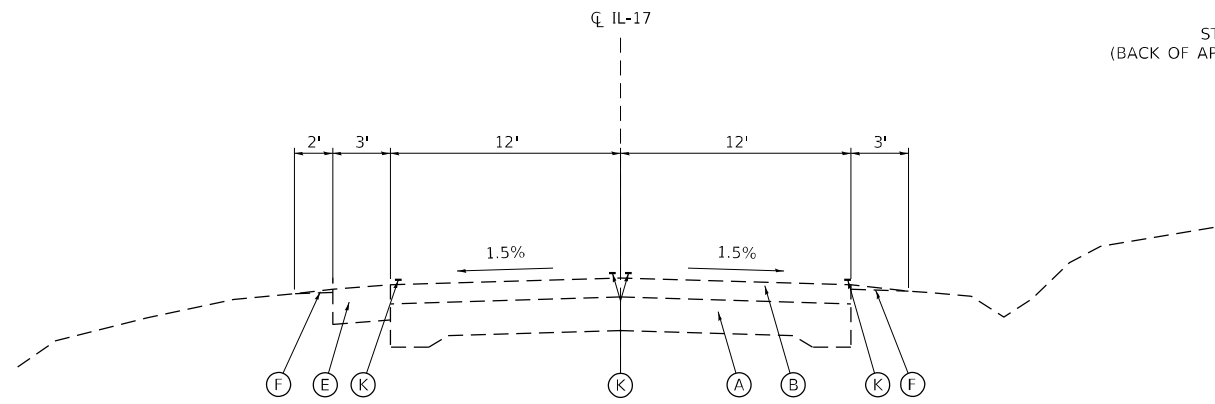
F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 10
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR		CONTRACT NO. 68G39		
ILLINOIS FED. AID PROJECT				

SN 062-0059

STA. 249+69.36 TO STA. 251+06.64
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)

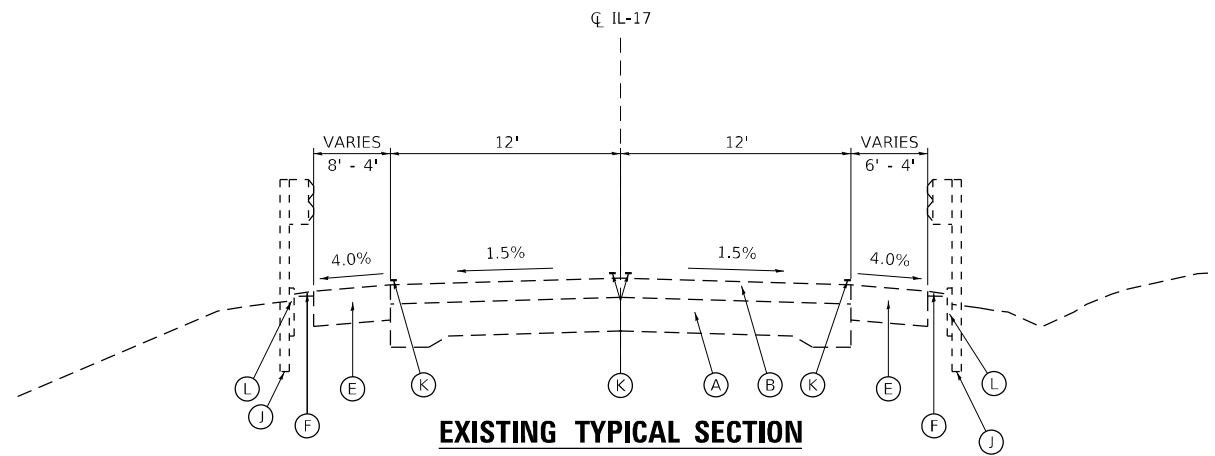
LEGEND

- (A) EX. PAVEMENT
 - (B) EX. HMA OVERLAY, VARIABLE DEPTH
 - (C) EX. BASE COURSE WIDENING
 - (D) EX. GRANULAR SUBGRADE
 - (E) EX. HMA SHOULDER
 - (F) EX. AGGREGATE SHOULDER
 - (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
 - (H) EX. SIDEWALK
 - (I) EX. 4" PIPE UNDERDRAIN
 - (J) EX. GUARDRAIL
 - (K) EX. PAVEMENT MARKINGS
 - (L) EX. BOARD
 - (M) EX. RETAINING WALL
-
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
 - (2) PR. HMA SHOULDERS, 2"
 - (3) PR. HMA BASE COURSE WIDENING, 9"
 - (4) PR. HMA BASE COURSE, 9"
 - (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
 - (7) PR. PAVEMENT MARKING LINE - 4"
 - (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (9) PR. AGGREGATE BASE COURSE, TYPE A, 4"
 - (10) PR. CURB AND GUTTER (SPECIAL)
 - (11) PR. AGGREGATE SHOULDERS (SPECIAL)
 - (12) RESERVED
 - (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B
 - (14) PR. INCIDENTAL HMA, 2"



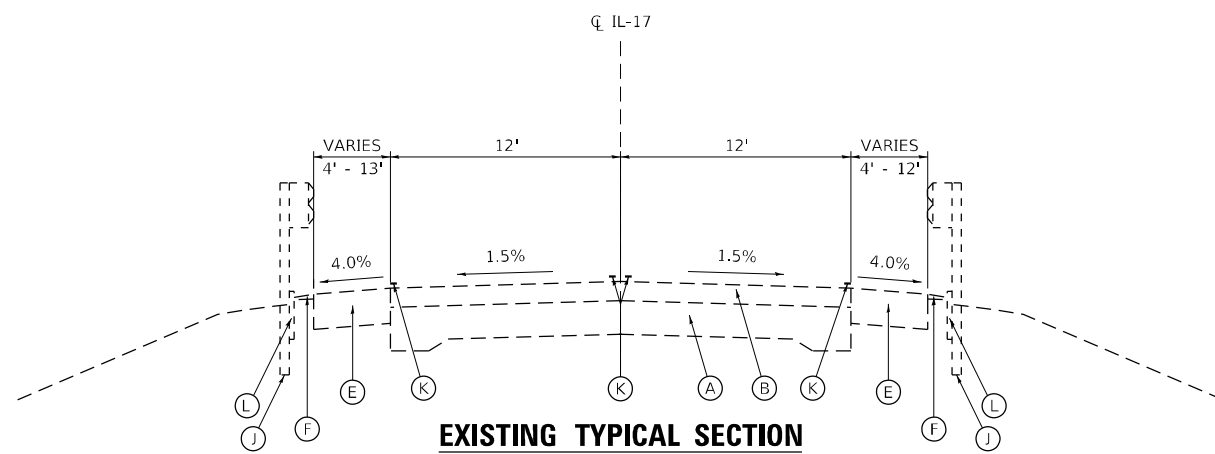
EXISTING TYPICAL SECTION

IL ROUTE 17
STA. 248+11.71 TO STA. 248+63.62



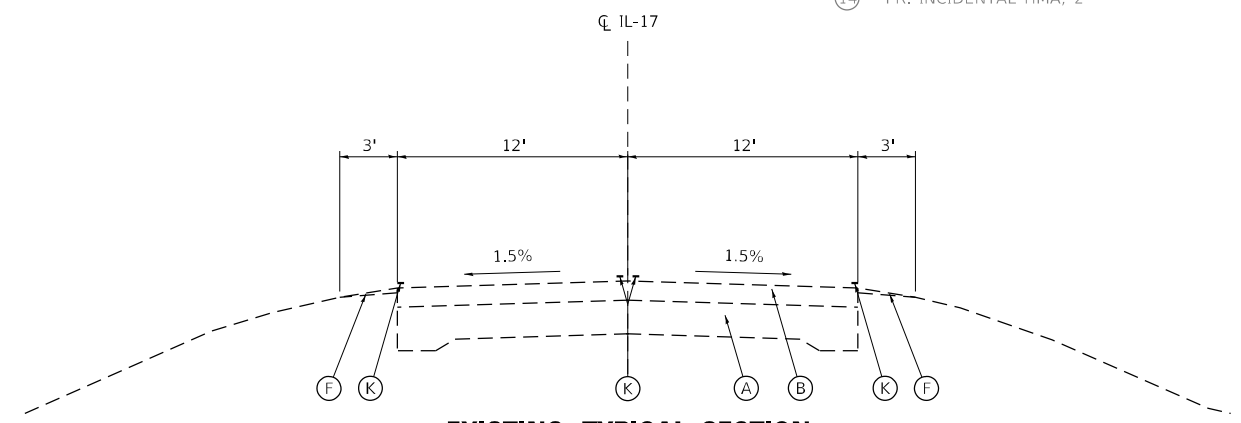
EXISTING TYPICAL SECTION

IL ROUTE 17
STA. 248+63.62 TO STA. 249+69.36



EXISTING TYPICAL SECTION

IL ROUTE 17
STA. 251+06.64 TO STA. 252+62.50



EXISTING TYPICAL SECTION

IL ROUTE 17
STA. 252+62.50 TO STA. 253+10.71

NOTE:
1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE.

MODEL Path: \\s:\projects\68G39\Bridges\Preservation - TWM\Consultant\Consultant - Final_Submittal_7-27-23\DOT_Corrections\CADD_Sheets\68G39\Submittal\IL-17_062-0059.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
IL ROUTE 17 - S.N. 062-0059**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	11
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 68G39

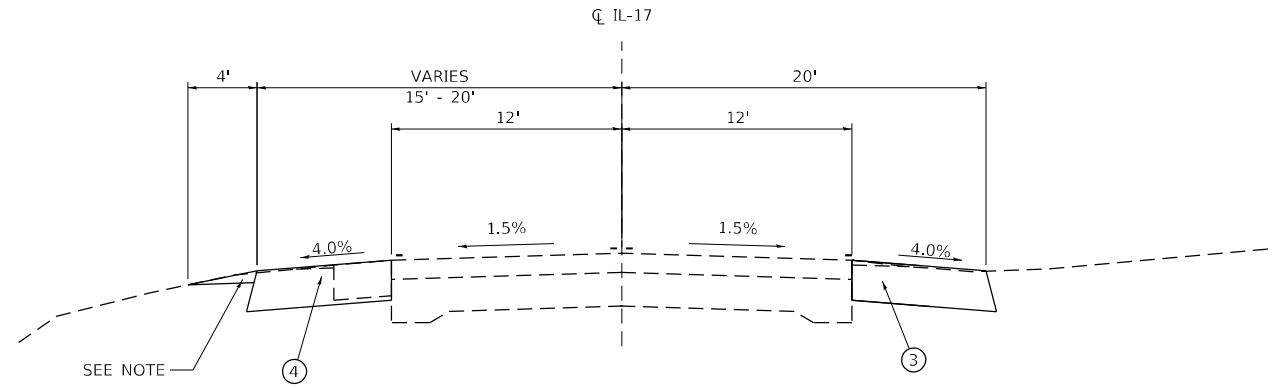
SN 062-0059

STA. 249+69.36 TO STA. 251+06.64
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)

LEGEND

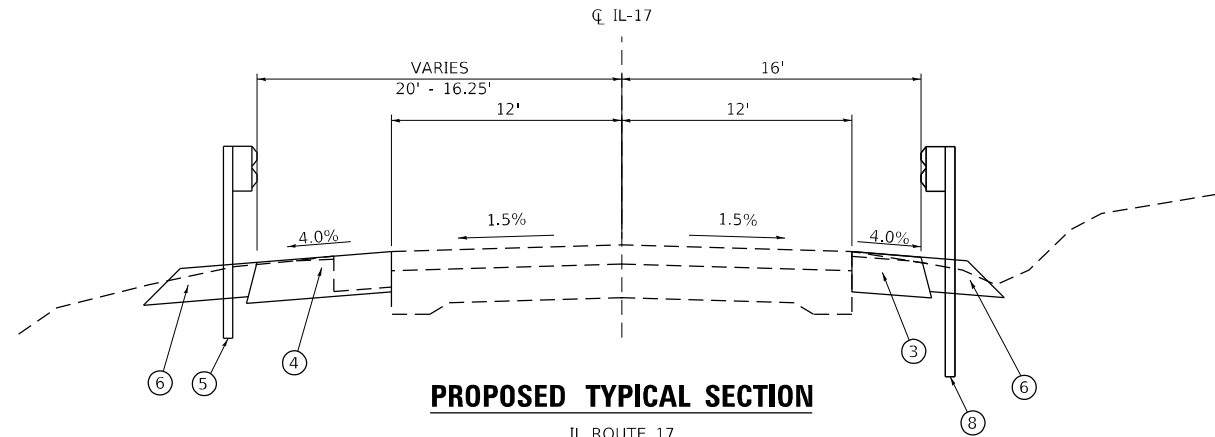
- (A) EX. PAVEMENT
- (B) EX. HMA OVERLAY, VARIABLE DEPTH
- (C) EX. BASE COURSE WIDENING
- (D) EX. GRANULAR SUBGRADE
- (E) EX. HMA SHOULDER
- (F) EX. AGGREGATE SHOULDER
- (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
- (H) EX. SIDEWALK
- (I) EX. 4" PIPE UNDERDRAIN
- (J) EX. GUARDRAIL
- (K) EX. PAVEMENT MARKINGS
- (L) EX. BOARD
- (M) EX. RETAINING WALL

- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (2) PR. HMA SHOULDERS, 2"
- (3) PR. HMA BASE COURSE WIDENING, 9"
- (4) PR. HMA BASE COURSE, 9"
- (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
- (7) PR. PAVEMENT MARKING LINE - 4"
- (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (9) PR. AGGREGATE BASE COURSE, TYPE A, 4"
- (10) PR. CURB AND GUTTER (SPECIAL)
- (11) PR. AGGREGATE SHOULDERS (SPECIAL)
- (12) RESERVED
- (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B (SEE NOTES)
- (14) PR. INCIDENTAL HMA, 2"



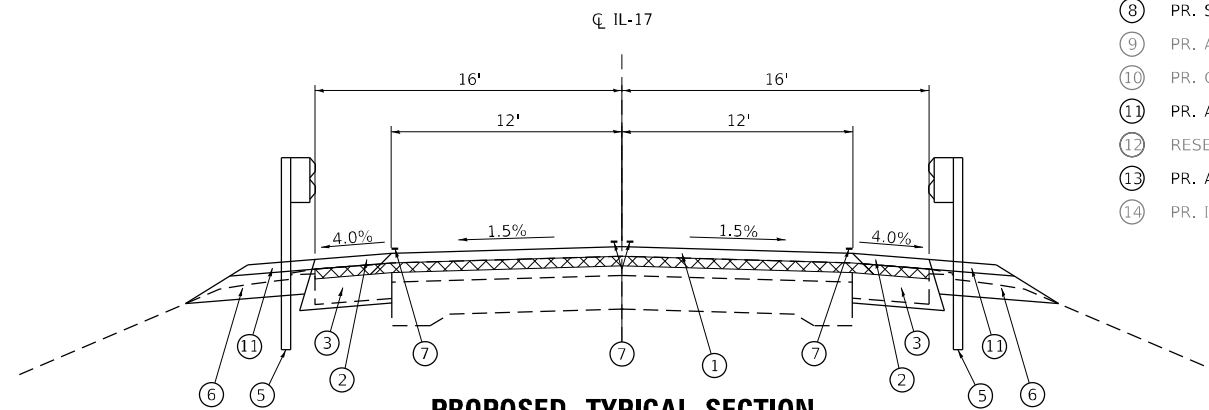
PROPOSED TYPICAL SECTION

IL ROUTE 17
STA. 248+15.71 LT TO STA. 248+65.59 LT
STA. 248+33.50 RT TO STA. 248+65.59 RT



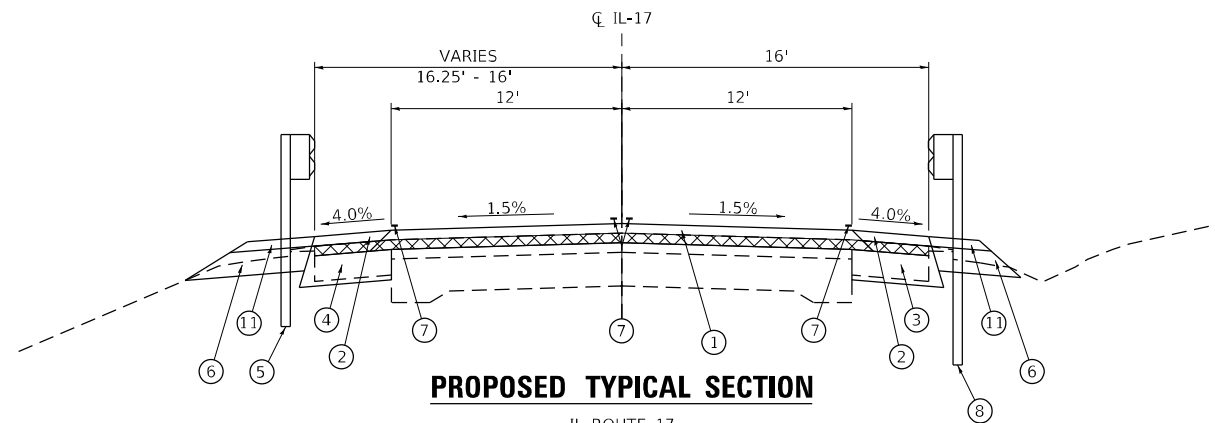
PROPOSED TYPICAL SECTION

IL ROUTE 17
STA. 248+65.59 TO STA. 249+39.36



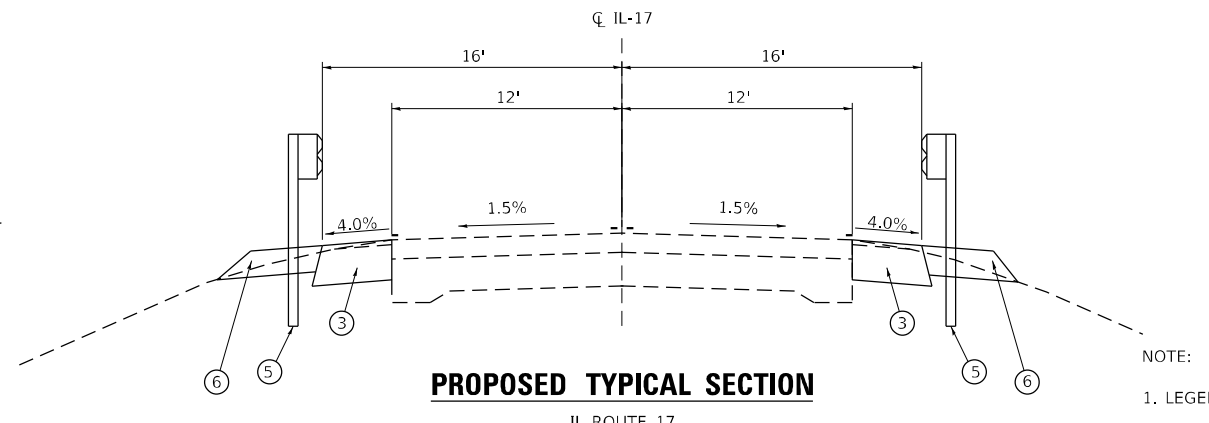
PROPOSED TYPICAL SECTION

IL ROUTE 17
STA. 251+06.64 TO STA. 251+36.64



PROPOSED TYPICAL SECTION

IL ROUTE 17
STA. 249+39.36 TO STA. 249+69.36



PROPOSED TYPICAL SECTION

IL ROUTE 17
STA. 251+36.64 LT TO STA. 252+70.71 LT
STA. 251+36.64 RT TO STA. 252+29.29 RT

PR. HMA SURFACE REMOVAL - BUTT JOINT

- NOTE:
- LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE.
 - PR. AGGREGATE SHOULDERS, TYPE B USE IN CONJUNCTION WITH GUARDRAIL AGGREGATE EROSION CONTROL FOR SHOULDER WIDENING AT TBT T-1 (SPECIAL). (SEE GUARDRAIL EROSION CONTROL SHEET).
 - AGGREGATE WEDGE SHOULDER, TYPE B NOT SHOWN. AFTER CONSTRUCTION OF HMA WIDENING, PLACE ALONG EDGE OF WIDENING TO ELIMINATE DROPOFFS. SEE SCHEDULES FOR QUANTITY.

MODEL Path: S:\GENEXCEL\Studies & Plans\Sub 9 - AdherContract68G39 Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-sub\tycl-17-062-0059.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
IL ROUTE 17 - S.N. 062-0059**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	12
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
		ILLINOIS	FED. AID PROJECT	

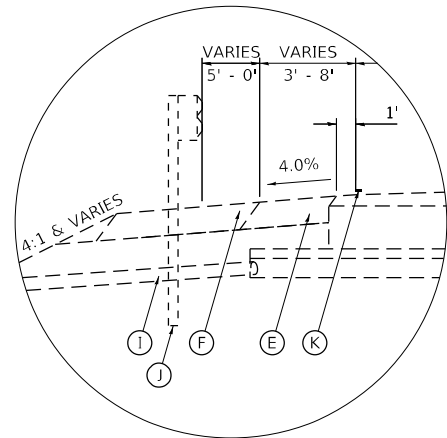
SN 062-0056

STA. 359+70.00 TO STA. 361+46.00
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)

LEGEND

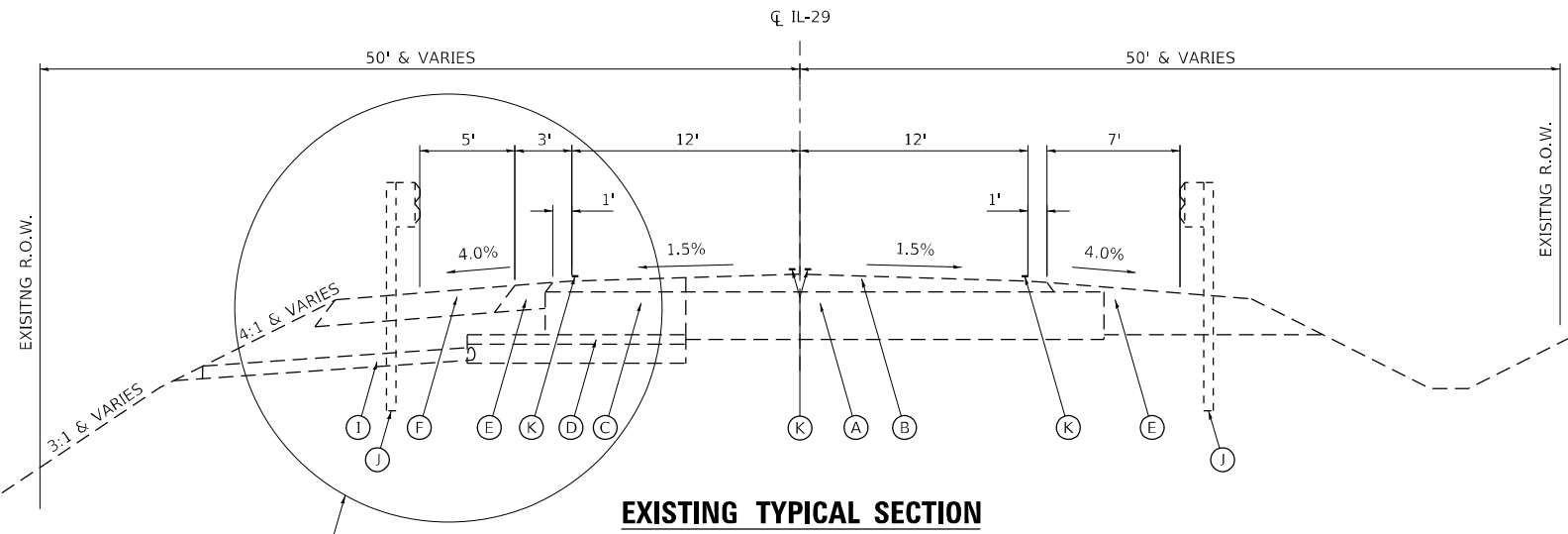
- (A) EX. PAVEMENT
- (B) EX. HMA OVERLAY, VARIABLE DEPTH
- (C) EX. BASE COURSE WIDENING
- (D) EX. GRANULAR SUBGRADE
- (E) EX. HMA SHOULDER
- (F) EX. AGGREGATE SHOULDER
- (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
- (H) EX. SIDEWALK
- (I) EX. 4" PIPE UNDERDRAIN
- (J) EX. GUARDRAIL
- (K) EX. PAVEMENT MARKINGS
- (L) EX. BOARD
- (M) EX. RETAINING WALL

- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (2) PR. HMA SHOULDERS, 2"
- (3) PR. HMA BASE COURSE WIDENING, 9"
- (4) PR. HMA BASE COURSE, 9"
- (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
- (7) PR. PAVEMENT MARKING LINE - 4"
- (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (9) PR. AGGREGATE BASE COURSE, TYPE A, 4"
- (10) PR. CURB AND GUTTER (SPECIAL)
- (11) PR. AGGREGATE SHOULDERS (SPECIAL)
- (12) RESERVED
- (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B
- (14) PR. INCIDENTAL HMA, 2"



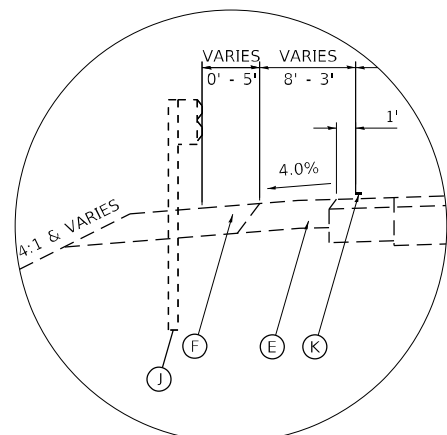
INSET A

STA. 359+15 LT TO STA. 359+70.00 LT



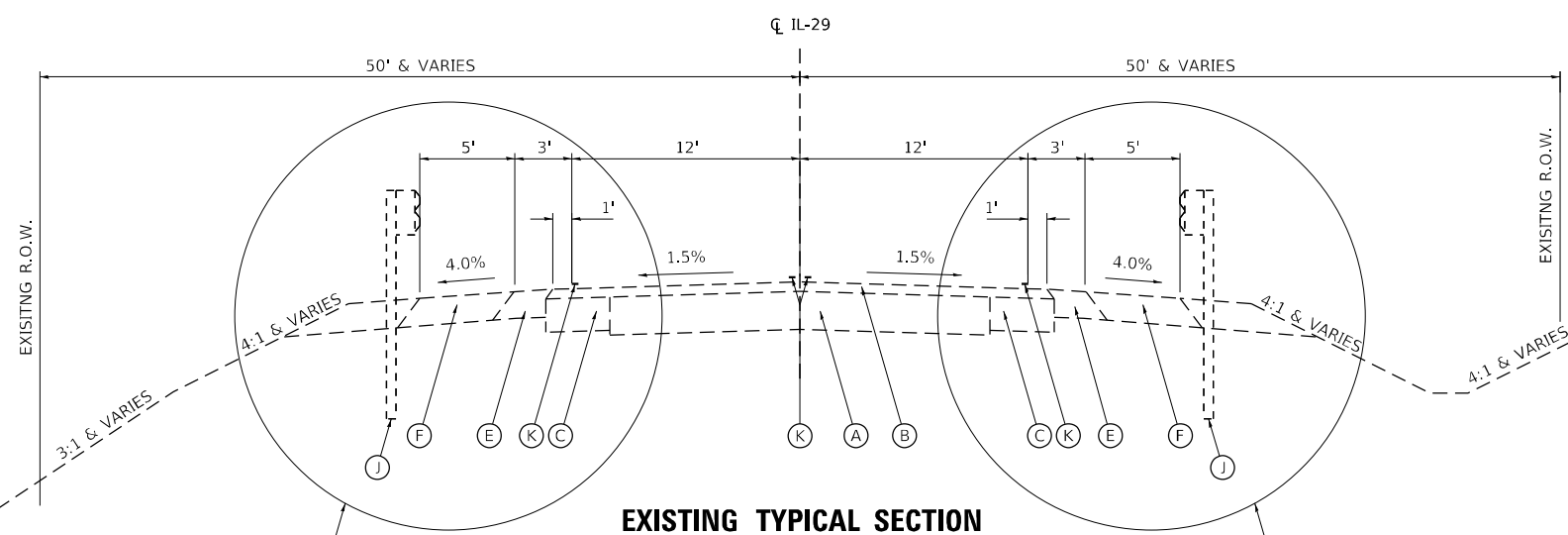
EXISTING TYPICAL SECTION

IL ROUTE 29
STA. 351+00.00 TO STA. 359+70.00



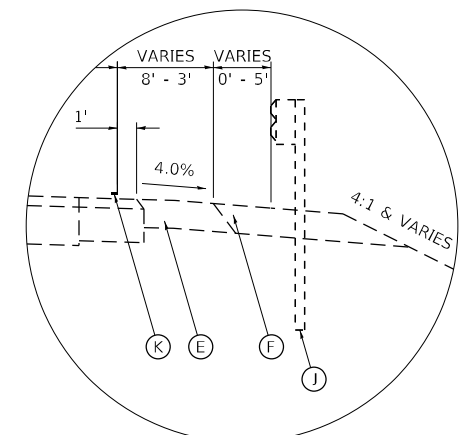
INSET B

STA. 361+46.00 LT TO STA. 361+70.00 LT



EXISTING TYPICAL SECTION

IL ROUTE 29
STA. 361+46.00 TO STA. 365+94.39



INSET C

STA. 361+46.00 RT TO STA. 361+90.00 RT

NOTE:
1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE

MODEL Path: \\s:\projects\68G39 - Adhera\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub\cadd\il-29_062-0056.dwg
FILE NAME: S:\GENEXCEL\Studies & Plans\Subod 9 - Adhera\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub\cadd\il-29_062-0056.dwg

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

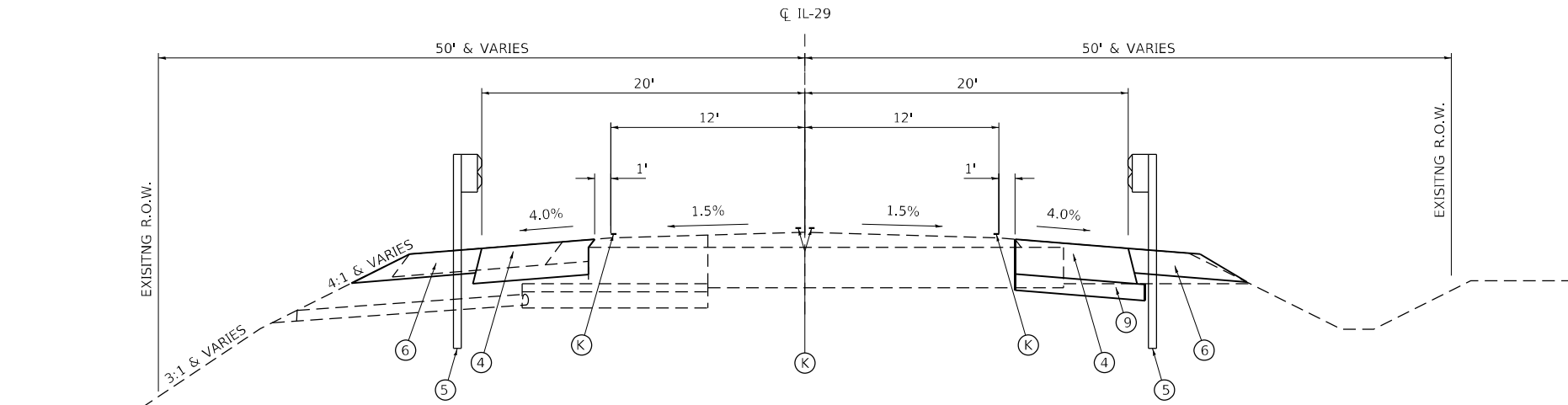
**EXISTING TYPICAL SECTIONS
IL ROUTE 29 - S.N. 062-0056**

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	13
*(3B-BR, BR-1; (104b) BR-1) BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

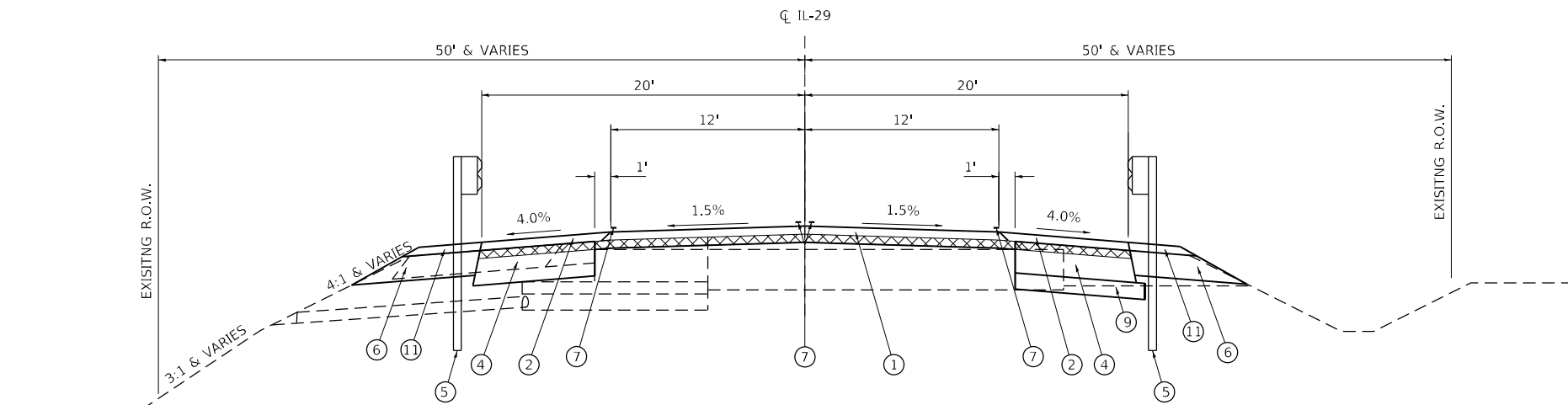
SN 062-0056

STA. 359+70.00 TO STA. 361+46.00
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 358+27.83 LT TO STA. 359+40.00 LT
STA. 358+00.41 RT TO STA. 359+40.00 RT



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 359+40.00 TO STA. 359+70.00

LEGEND

- (A) EX. PAVEMENT
- (B) EX. HMA OVERLAY, VARIABLE DEPTH
- (C) EX. BASE COURSE WIDENING
- (D) EX. GRANULAR SUBGRADE
- (E) EX. HMA SHOULDER
- (F) EX. AGGREGATE SHOULDER
- (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
- (H) EX. SIDEWALK
- (I) EX. 4" PIPE UNDERDRAIN
- (J) EX. GUARDRAIL
- (K) EX. PAVEMENT MARKINGS
- (L) EX. BOARD
- (M) EX. RETAINING WALL
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (2) PR. HMA SHOULDERS, 2"
- (3) PR. HMA BASE COURSE WIDENING, 9"
- (4) PR. HMA BASE COURSE, 9"
- (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
- (7) PR. PAVEMENT MARKING LINE - 4"
- (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (9) PR. AGGREGATE BASE COURSE, TYPE A, 4" (SEE NOTE 3)
- (10) PR. CURB AND GUTTER (SPECIAL)
- (11) PR. AGGREGATE SHOULDERS (SPECIAL)
- (12) RESERVED
- (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B (SEE NOTES)
- (14) PR. INCIDENTAL HMA, 2"

PR. HMA SURFACE REMOVAL - BUTT JOINT

NOTE:

1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE
2. PR. AGGREGATE SHOULDERS, TYPE B USE IN CONJUNCTION WITH GUARDRAIL AGGREGATE EROSION CONTROL FOR SHOULDER WIDENING AT TBT T-1 (SPECIAL). (SEE GUARDRAIL EROSION CONTROL SHEET)
3. THICKNESS BASED ON ASSUMED THICKNESS FROM MICROFILM.
4. AGGREGATE WEDGE SHOULDER, TYPE B NOT SHOWN. AFTER CONSTRUCTION OF HMA WIDENING, PLACE ALONG EDGE OF WIDENING TO ELIMINATE DROPOFFS. SEE SCHEDULES FOR QUANTITY.

MODEL Path: S:\CEN\EXCEL\Studies & Plans\Subod 9 - Adhena\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final_Submittal_7-23-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-sub\typical-il-29_062-0056.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com

IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

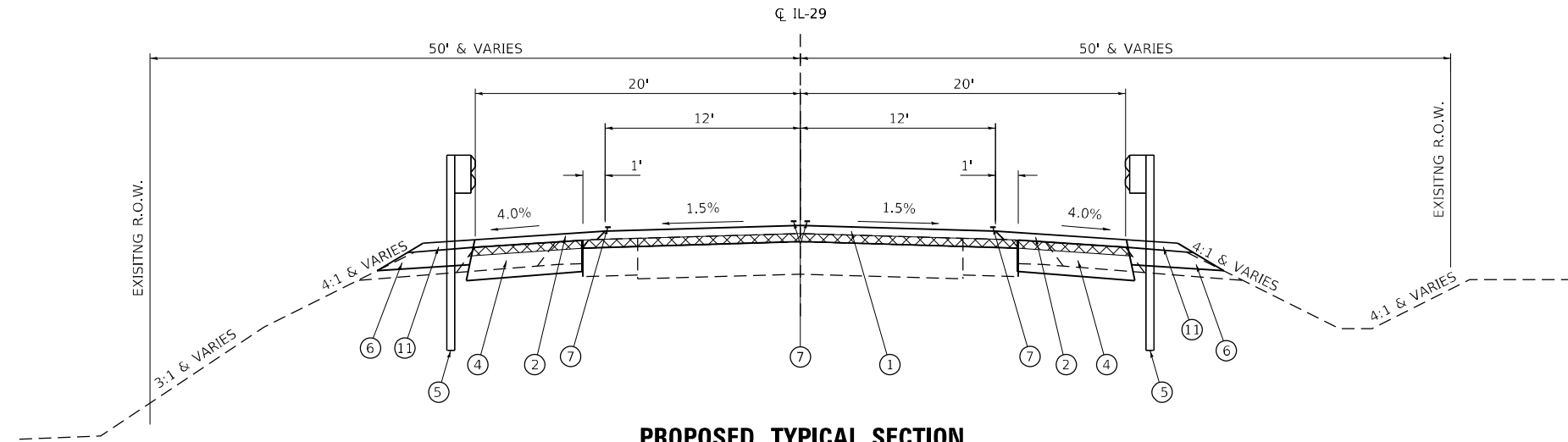
PROPOSED TYPICAL SECTIONS IL ROUTE 29 - S.N. 062-0056
--

SCALE: N.T.S.	SHEET 2	OF 3	SHEETS	STA.	TO STA.
---------------	---------	------	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	14
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

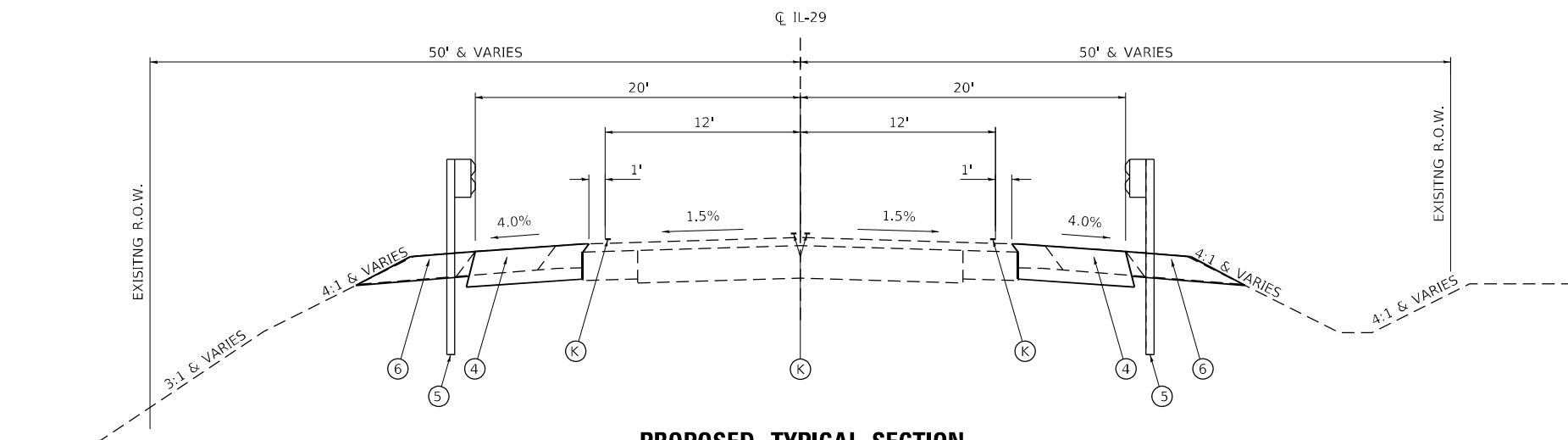
SN 062-0056

STA. 359+70.00 TO STA. 361+46.00
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 361+46.00 TO STA. 361+76.00



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 361+76.00 TO STA. 362+88.17

LEGEND

- (A) EX. PAVEMENT
- (B) EX. HMA OVERLAY, VARIABLE DEPTH
- (C) EX. BASE COURSE WIDENING
- (D) EX. GRANULAR SUBGRADE
- (E) EX. HMA SHOULDER
- (F) EX. AGGREGATE SHOULDER
- (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
- (H) EX. SIDEWALK
- (I) EX. 4" PIPE UNDERDRAIN
- (J) EX. GUARDRAIL
- (K) EX. PAVEMENT MARKINGS
- (L) EX. BOARD
- (M) EX. RETAINING WALL

- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (2) PR. HMA SHOULDERS, 2"
- (3) PR. HMA BASE COURSE WIDENING, 9"
- (4) PR. HMA BASE COURSE, 9"
- (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
- (7) PR. PAVEMENT MARKING LINE - 4"
- (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (9) PR. AGGREGATE BASE COURSE, TYPE A, 4"
- (10) PR. CURB AND GUTTER (SPECIAL)
- (11) PR. AGGREGATE SHOULDERS (SPECIAL)
- (12) RESERVED
- (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B (SEE NOTES)
- (14) PR. INCIDENTAL HMA, 2"

PR. HMA SURFACE REMOVAL - BUTT JOINT

NOTE:

1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE
2. PR. AGGREGATE SHOULDERS, TYPE B USE IN CONJUNCTION WITH GUARDRAIL AGGREGATE EROSION CONTROL FOR SHOULDER WIDENING AT TBT T-1 (SPECIAL). (SEE GUARDRAIL EROSION CONTROL SHEET)
3. AGGREGATE WEDGE SHOULDER, TYPE B NOT SHOWN. AFTER CONSTRUCTION OF HMA WIDENING, PLACE ALONG EDGE OF WIDENING TO ELIMINATE DROPOFFS. SEE SCHEDULES FOR QUANTITY.

MODEL Path: S:\CEN\EXCEL\Studies & Plans\Subod 9 - Adhena\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-sub\typical-il-29_062-0056.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com

IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

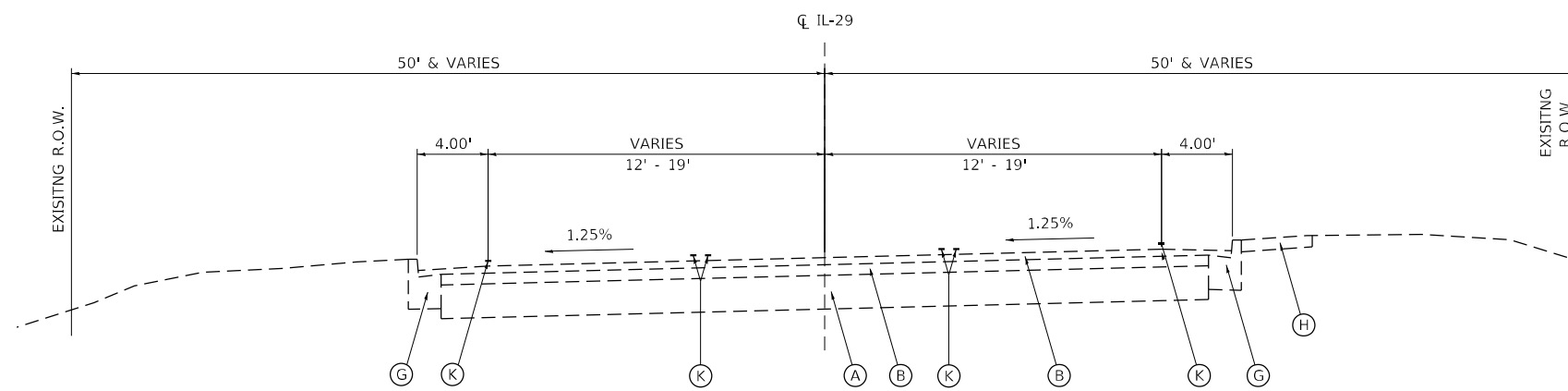
PROPOSED TYPICAL SECTIONS IL ROUTE 29 - S.N. 062-0056
--

SCALE: N.T.S.	SHEET 3	OF 3	SHEETS	STA.	TO STA.
---------------	---------	------	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	15
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

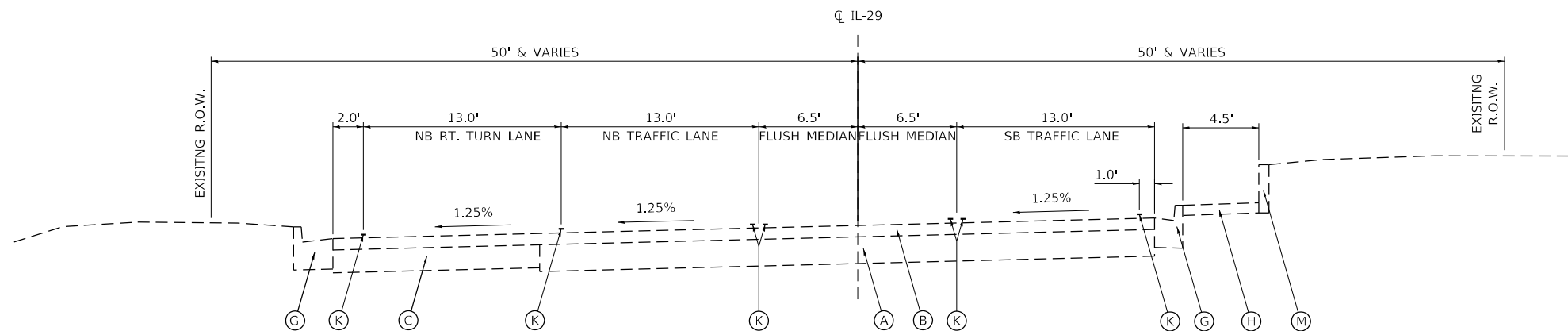
SN 062-0057

STA. 386+34.50 TO STA. 387+51.50
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)



EXISTING TYPICAL SECTION

IL ROUTE 29
STA. 383+08.56 TO STA. 385+60.00



EXISTING TYPICAL SECTION

IL ROUTE 29
STA. 385+60.00 TO STA. 386+34.50

LEGEND

- (A) EX. PAVEMENT
 - (B) EX. HMA OVERLAY, VARIABLE DEPTH
 - (C) EX. BASE COURSE WIDENING
 - (D) EX. GRANULAR SUBGRADE
 - (E) EX. HMA SHOULDER
 - (F) EX. AGGREGATE SHOULDER
 - (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
 - (H) EX. SIDEWALK
 - (I) EX. 4" PIPE UNDERDRAIN
 - (J) EX. GUARDRAIL
 - (K) EX. PAVEMENT MARKINGS
 - (L) EX. BOARD
 - (M) EX. RETAINING WALL
-
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
 - (2) PR. HMA SHOULDERS, 2"
 - (3) PR. HMA BASE COURSE WIDENING, 9"
 - (4) PR. HMA BASE COURSE, 9"
 - (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
 - (7) PR. PAVEMENT MARKING LINE - 4"
 - (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (9) PR. AGGREGATE BASE COURSE, TYPE A
 - (10) PR. CURB AND GUTTER (SPECIAL)
 - (11) PR. AGGREGATE SHOULDERS (SPECIAL)
 - (12) RESERVED
 - (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B
 - (14) PR. INCIDENTAL HMA, 2"

NOTE:
1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE

MODEL Path: \\S:\CEN\EXCEL\Studies & Plans\Subod 9 - Adena\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final_Submittal_7-23-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-sub\typical-il-29_062-0057.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:10	CHECKED -	REVISED -
PLOT DATE = 8/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

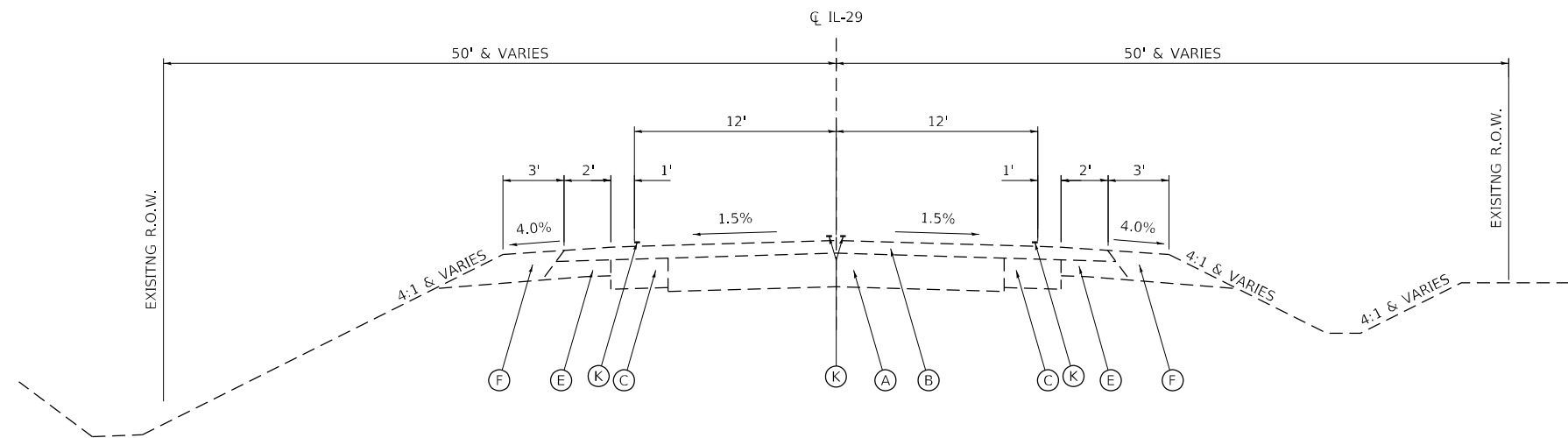
**EXISTING TYPICAL SECTIONS
IL ROUTE 29 - S.N. 062-0057**

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	16
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

SN 062-0057

STA. 386+34.50 TO STA. 387+51.50
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)

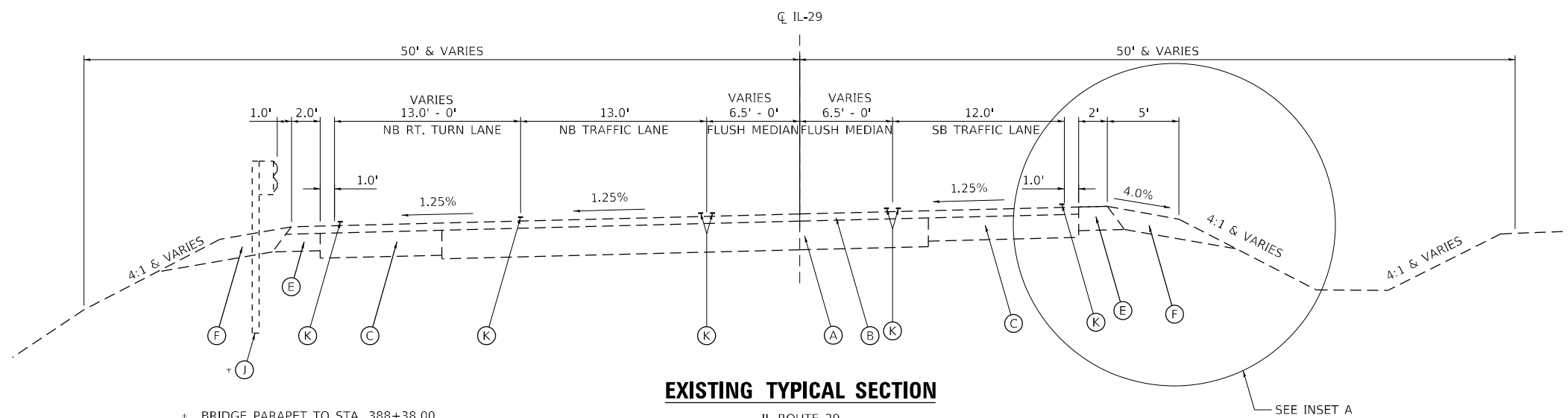


EXISTING TYPICAL SECTION

IL ROUTE 29
STA. 390+31.50 TO STA. 391+44.27

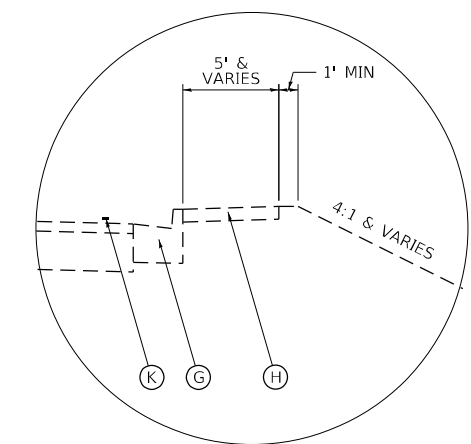
LEGEND

- (A) EX. PAVEMENT
 - (B) EX. HMA OVERLAY, VARIABLE DEPTH
 - (C) EX. BASE COURSE WIDENING
 - (D) EX. GRANULAR SUBGRADE
 - (E) EX. HMA SHOULDER
 - (F) EX. AGGREGATE SHOULDER
 - (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
 - (H) EX. SIDEWALK
 - (I) EX. 4" PIPE UNDERDRAIN
 - (J) EX. GUARDRAIL
 - (K) EX. PAVEMENT MARKINGS
 - (L) EX. BOARD
 - (M) EX. RETAINING WALL
-
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
 - (2) PR. HMA SHOULDERS, 2"
 - (3) PR. HMA BASE COURSE WIDENING, 9"
 - (4) PR. HMA BASE COURSE, 9"
 - (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
 - (7) PR. PAVEMENT MARKING LINE - 4"
 - (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (9) PR. AGGREGATE BASE COURSE, TYPE A
 - (10) PR. CURB AND GUTTER (SPECIAL)
 - (11) PR. AGGREGATE SHOULDERS (SPECIAL)
 - (12) RESERVED
 - (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B
 - (14) PR. INCIDENTAL HMA, 2"



EXISTING TYPICAL SECTION

IL ROUTE 29
STA. 387+51.50 TO STA. 390+31.50



INSET A

STA. 387+51.50 RT TO STA. 367+64.50 RT

NOTE:
1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE

MODEL Path: \\... \Users\... \Public\... \Projects\... \062-0057\... \CADD\... \062-0057.dwg
FILE NAME: S:\GENEXCEL\Studies & Plans\Squad 9 - Adhera\Contract\68G39 Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub\062-0057.dwg

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

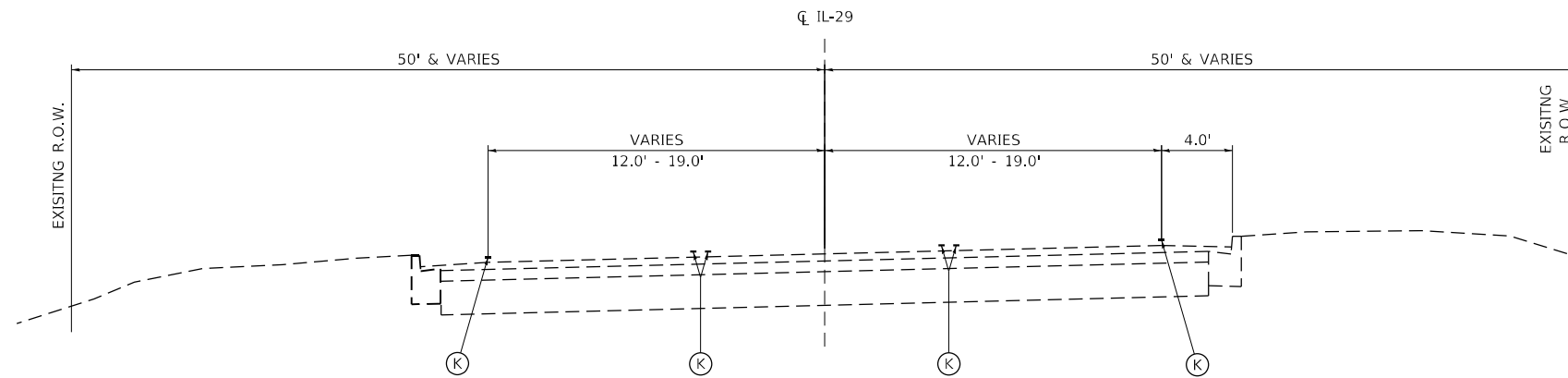
**EXISTING TYPICAL SECTIONS
IL ROUTE 29 - S.N. 062-0057**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	17
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

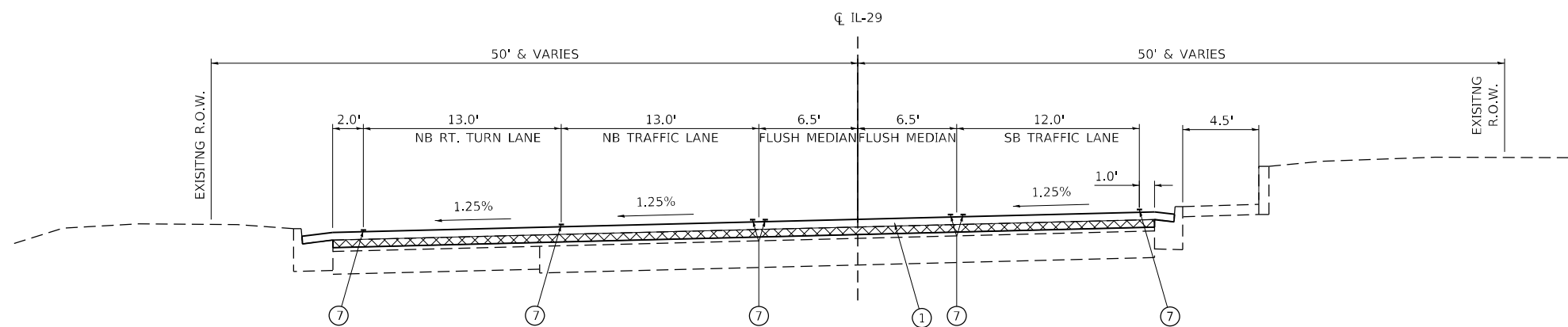
SN 062-0057

STA. 386+34.50 TO STA. 387+51.50
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 383+08.56 TO STA. 386+08.50



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 386+08.50 TO STA. 386+34.50

LEGEND

- (A) EX. PAVEMENT
 - (B) EX. HMA OVERLAY, VARIABLE DEPTH
 - (C) EX. BASE COURSE WIDENING
 - (D) EX. GRANULAR SUBGRADE
 - (E) EX. HMA SHOULDER
 - (F) EX. AGGREGATE SHOULDER
 - (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
 - (H) EX. SIDEWALK
 - (I) EX. 4" PIPE UNDERDRAIN
 - (J) EX. GUARDRAIL
 - (K) EX. PAVEMENT MARKINGS
 - (L) EX. BOARD
 - (M) EX. RETAINING WALL
-
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
 - (2) PR. HMA SHOULDERS, 2"
 - (3) PR. HMA BASE COURSE WIDENING, 9"
 - (4) PR. HMA BASE COURSE, 9"
 - (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
 - (7) PR. PAVEMENT MARKING LINE - 4"
 - (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (9) PR. AGGREGATE BASE COURSE, TYPE A
 - (10) PR. CURB AND GUTTER (SPECIAL)
 - (11) PR. AGGREGATE SHOULDERS (SPECIAL)
 - (12) RESERVED
 - (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B (SEE NOTE 2)
 - (14) PR. INCIDENTAL HMA, 2"

PR. HMA SURFACE REMOVAL - BUTT JOINT

NOTE:

1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE.
2. AFTER CONSTRUCTION OF HMA WIDENING, PLACE AGGREGATE WEDGE SHOULDER, TYPE B ALONG EDGE OF WIDENING TO ELIMINATE DROPOFFS. SEE SCHEDULES FOR QUANTITY.

MODEL Path: \\S:\CEN\EXCEL\Studies & Plans\Subod 9 - Adhena\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-sub\typical-il-29_062-0057.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com

IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USER\$	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

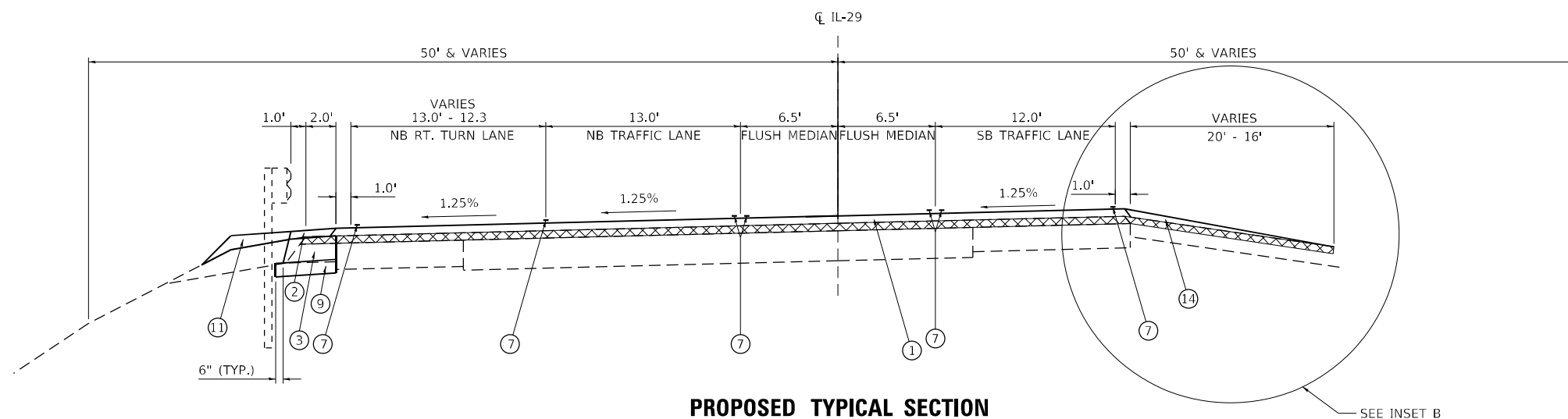
**PROPOSED TYPICAL SECTIONS
IL ROUTE 29 - S.N. 062-0057**

SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	18
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

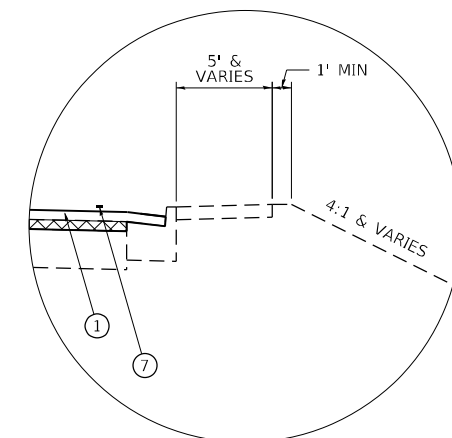
SN 062-0057

STA. 386+34.50 TO STA. 387+51.50
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 387+51.50 TO STA. 388+22.50



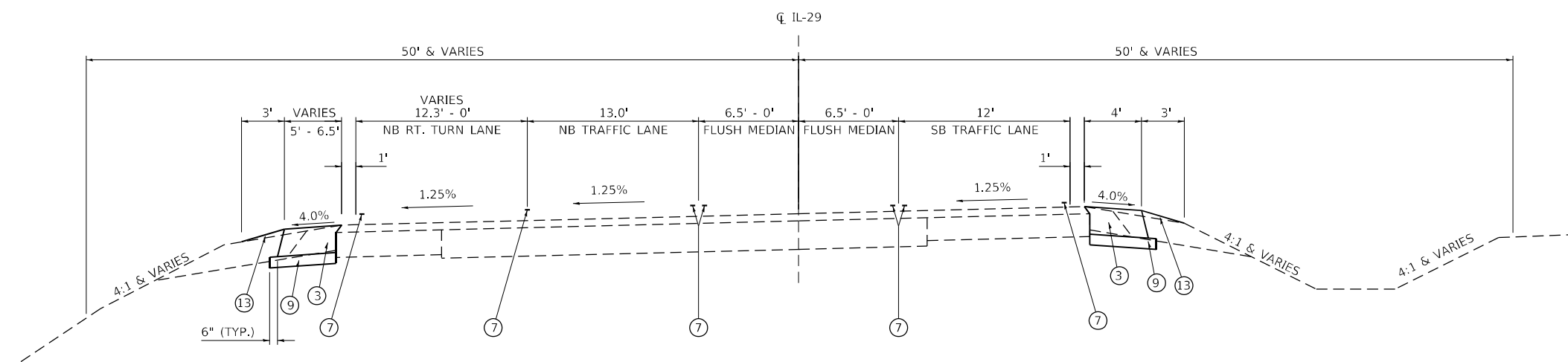
INSET B

STA. 387+51.50 RT TO STA. 387+64.50 RT

LEGEND

- (A) EX. PAVEMENT
 - (B) EX. HMA OVERLAY, VARIABLE DEPTH
 - (C) EX. BASE COURSE WIDENING
 - (D) EX. GRANULAR SUBGRADE
 - (E) EX. HMA SHOULDER
 - (F) EX. AGGREGATE SHOULDER
 - (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
 - (H) EX. SIDEWALK
 - (I) EX. 4" PIPE UNDERDRAIN
 - (J) EX. GUARDRAIL
 - (K) EX. PAVEMENT MARKINGS
 - (L) EX. BOARD
 - (M) EX. RETAINING WALL
-
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
 - (2) PR. HMA SHOULDERS, 2"
 - (3) PR. HMA BASE COURSE WIDENING, 9"
 - (4) PR. HMA BASE COURSE, 9"
 - (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
 - (7) PR. PAVEMENT MARKING LINE - 4"
 - (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (9) PR. AGGREGATE BASE COURSE, TYPE A, 4" (SEE NOTE 2)
 - (10) PR. CURB AND GUTTER (SPECIAL)
 - (11) PR. AGGREGATE SHOULDERS (SPECIAL)
 - (12) RESERVED
 - (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B (SEE NOTE 3)
 - (14) PR. INCIDENTAL HMA, 2"

PR. HMA SURFACE REMOVAL - BUTT JOINT



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 388+22.50 TO STA. 390+31.50

- NOTE:
1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE.
 2. THICKNESS BASED ON ASSUMED THICKNESS FROM MICROFILM.
 3. AFTER CONSTRUCTION OF HMA WIDENING, PLACE AGGREGATE WEDGE SHOULDER, TYPE B ALONG EDGE OF WIDENING TO ELIMINATE DROPOFFS. SEE SCHEDULES FOR QUANTITY.

MODEL Path: \\s:\cadd\cadd\68G39 - A\Drawings\68G39 - Bridge\Preservation - TWM\Consultant\Consultant - Final_Submittal_7-23-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-Submittal\IL-29_062-0057.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = susers	DESIGNED -	REVISED -
PLOT SCALE = 1:10	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

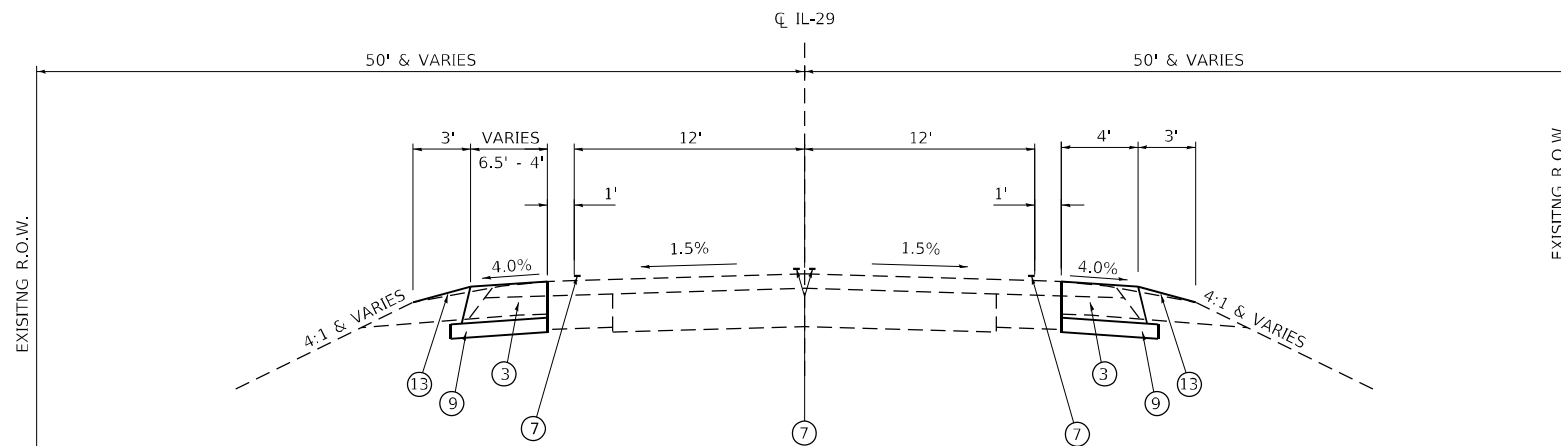
PROPOSED TYPICAL SECTIONS	
IL ROUTE 29 - S.N. 062-0057	
SCALE: N.T.S.	SHEET 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	19
*(3B-BR-1;(104b)BR-1)BDR,BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S.	SHEET 4	OF 5	SHEETS	STA.	TO STA.
---------------	---------	------	--------	------	---------

SN 062-0057

STA. 386+34.50 TO STA. 387+51.50
(BACK OF APPROACH SLAB TO BACK OF APPROACH SLAB)



PROPOSED TYPICAL SECTION

IL ROUTE 29
STA. 390+31.50 TO STA. 391+44.27 LT
STA. 390+31.50 TO STA. 390+60.88 RT

LEGEND

- (A) EX. PAVEMENT
 - (B) EX. HMA OVERLAY, VARIABLE DEPTH
 - (C) EX. BASE COURSE WIDENING
 - (D) EX. GRANULAR SUBGRADE
 - (E) EX. HMA SHOULDER
 - (F) EX. AGGREGATE SHOULDER
 - (G) EX. COMB. CONC. CURB AND GUTTER, B-6.24
 - (H) EX. SIDEWALK
 - (I) EX. 4" PIPE UNDERDRAIN
 - (J) EX. GUARDRAIL
 - (K) EX. PAVEMENT MARKINGS
 - (L) EX. BOARD
 - (M) EX. RETAINING WALL
-
- (1) PR. HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
 - (2) PR. HMA SHOULDERS, 2"
 - (3) PR. HMA BASE COURSE WIDENING, 9"
 - (4) PR. HMA BASE COURSE, 9"
 - (5) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (6) PR. GUARDRAIL AGGREGATE EROSION CONTROL
 - (7) PR. PAVEMENT MARKING LINE - 4"
 - (8) PR. STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
 - (9) PR. AGGREGATE BASE COURSE, TYPE A, 4" (SEE NOTE 2)
 - (10) PR. CURB AND GUTTER (SPECIAL)
 - (11) PR. AGGREGATE SHOULDERS (SPECIAL)
 - (12) RESERVED
 - (13) PR. AGGREGATE WEDGE SHOULDER, TYPE B (SEE NOTE 3)
 - (14) PR. INCIDENTAL HMA, 2"

NOTE:

1. LEGEND ITEMS IN GRAY DO NOT APPLY TO THIS STRUCTURE.
2. THICKNESS OF AGGREGATE BASE COURSE, TYPE A BASED ON ASSUMED THICKNESS FROM MICROFILM.
3. AFTER CONSTRUCTION OF HMA WIDENING, PLACE AGGREGATE WEDGE SHOULDER, TYPE B ALONG EDGE OF WIDENING TO ELIMINATE DROPOFFS. SEE SCHEDULES FOR QUANTITY.

MODEL Path: \\S:\CEN\EXCEL\Studies & Plans\Subod 9 - A\AreaContract\68G39 - Bridge Preservation - TWM\Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-sub\byrlic-IL-29_062-0057.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:10	CHECKED -	REVISED -
PLOT DATE = 8/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
IL ROUTE 29 - S.N. 062-0057**

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	20
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL Path: \\S:\GENEXCEL\Studies & Plans\Sub 9 - Adhera\Contract\68G39 Bridge Preservation - TWM\Consultant\Consultant - Final Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-Schedule.dgn
 FILE NAME: S:\GENEXCEL\Studies & Plans\Sub 9 - Adhera\Contract\68G39 Bridge Preservation - TWM\Consultant\Consultant - Final Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-Schedule.dgn

GUARDRAIL SCHEDULE														
LOCATION				63000001	63000003	63100085	63100167	63200310	63302700	72501000	78200005	X6310187	X6330725	Z0001002
STATION	TO	STATION	LT/RT	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	GUARDRAIL AGGREGATE EROSION CONTROL
STATION	TO	STATION	LT/RT	FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH	EACH	FOOT	TON
IL ROUTE 17 062-0059														
248+46.71	TO	249+96.71	LT	62.5		1	1	148.0		1	4			33.1
248+63.84	TO	250+05.29	RT		87.5	1		146.0			4		25.0	30.5
250+70.71	TO	252+70.71	LT	112.5		1	1	196.6		1	4			44.1
250+79.29	TO	252+29.29	RT	62.5		1	1	152.6		1	4			33.5
IL ROUTE 29 062-0056														
358+81.64	TO	359+93.14	RT	55.2			1	103.9		1	4	1	65.4	43.7
358+93.14	TO	359+93.14	LT	12.5			1	110.8		1	4	1		22.1
361+22.85	TO	362+22.85	RT	12.5			1	111.7		1	4	1		21.7
361+22.85	TO	362+60.35	LT	50.0			1	181.4		1	4	1		29.8
IL ROUTE 29 062-0057														
387+25.15			LT						1					
PAY TOTAL:				368	88	4	7	1151	1	7	32	4	90	259

STAGING SCHEDULE S.N. 062-0059											
LOCATION			40600990	70106500	70106700	70107005	70400100	70400200	70600251	70600352	78200011
STATION	TO	STATION	TEMPORARY RAMP * TAPER RATE 1:40	TEMPORARY BRIDGE TRAFFIC SIGNALS *	TEMPORARY RUMBLE STRIPS *	PAVEMENT MARKING BLACKOUT TAPE, 5"	TEMPORARY CONCRETE BARRIER *	RELOCATE TEMPORARY CONCRETE BARRIER *	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECT IVE, NARROW), TEST LEVEL 3 *	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECT IVE, NARROW), TEST LEVEL 3 **	BARRIER WALL REFLECTORS, TYPE C *
STATION	TO	STATION	SQ YD	EACH	EACH	FOOT	FOOT	FOOT	EACH	EACH	EACH
STAGE I											
WEST END				1	3						
EAST END					3						
247+56.30									1		
247+73.07	TO	248+10.94					37.5				49
248+27.72									1		
248+57.72									1		
248+74.50	TO	252+41.43					362.5				
252+58.20									1		
STAGE II											
248+34.57	TO	252+39.37				238.30		400.0			
248+17.80										1	
249+64.36	TO	249+69.36	8.9								
251+06.64	TO	251+11.64	8.9								
252+56.15										1	
POST STAGE											
249+39.36	TO	249+44.36	17.8								
249+64.36	TO	249+69.36	17.8								
251+06.64	TO	251+11.64	17.8								
251+31.64	TO	251+36.64	17.8								
PAY TOTAL:			89	1	6	738	400	400	4	2	49

* SEE STAGING SCHEDULE S.N. 062-0056 AND STAGING SCHEDULE S.N. 062-0057 FOR ADDITIONAL QUANTITIES
 ** SEE STAGING SCHEDULE S.N. 062-0056 FOR ADDITIONAL QUANTITIES

MAINLINE REMOVAL SCHEDULE						
LOCATION				40600982	44004250	X4400196
STATION	TO	STATION	LT/RT	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
STATION	TO	STATION	LT/RT	SQ YD	SQ YD	QTY FOR JOINT TREATMENT ON CL
SN 062-0059						
248+15.71	TO	249+65.15	LT		105.2	
248+33.50	TO	249+73.65	RT		70.9	
249+39.36	TO	249+69.36	LT/RT	106.7		1.7
251+06.64	TO	251+36.64	LT/RT	106.7		1.7
251+02.43	TO	251+70.71	LT		124.7	
251+10.85	TO	252+29.29	RT		71.4	
SN 062-0056						
358+27.83	TO	359+70.00	LT		47.7	
359+00.41	TO	359+70.00	RT		54.1	
359+40.00	TO	359+70.00	LT/RT	133.3		1.7
361+46.00	TO	361+76.00	LT/RT	133.3		1.7
361+46.00	TO	362+88.17	LT		42.6	
361+46.00	TO	362+88.17	RT		47.7	
SN 062-0057						
386+08.50	TO	386+34.50	LT/RT	157.5		1.4
387+51.50	TO	388+22.50	LT/RT	526.6		3.9
387+51.50	TO	388+56.41	LT		26.2	
388+15.47	TO	390+60.88	RT		53.9	
388+91.94	TO	391+44.27	LT		55.9	
PAY TOTAL:				1164	700	12



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = SUSER\$	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	21
*(3B-BR, BR-1; 104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\S:\GENEX\GENEX\Studies & Plans\Sub 9 - Adher\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final\Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-Schedule.dgn
 FILE NAME: S:\GENEX\GENEX\Studies & Plans\Sub 9 - Adher\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant - Final\Submittal 7-23-23\DOT Corrections\CADD Files\CADD_Sheets\68G39-Sub-Schedule.dgn

SHOULDER SCHEDULE												
LOCATION				35100100	35501320	35600712	40600275	40600290	48101200	48102100	48203100	X4811900
				AGGREGATE BASE COURSE, TYPE A	HOT-MIX ASPHALT BASE COURSE, 9"	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT) *	AGGREGATE SHOULDERS, TYPE B	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS	AGGREGATE SHOULDERS (SPECIAL)
				4"			0.25 LBS/SQ FT	0.08 LBS/SQ FT			2"	
STATION	TO	STATION	LT/RT	TON	SQ YD	SQ YD	POUND	POUND	TON	TON	TON	TON
062-0059												
248+11.71	TO	248+35.71	LT						1.6			
248+15.71	TO	249+65.07	LT		93.3					5.9		
249+39.36	TO	249+69.36	LT					8.5			1.3	1.3
249+39.36	TO	249+69.36	RT					10.8			1.7	1.8
248+33.50	TO	249+73.57	RT			71.7				4.7		
251+02.35	TO	252+70.71	LT			74.6				6.6		
251+06.64	TO	251+36.44	LT					10.8			1.7	1.6
251+06.64	TO	251+36.64	RT					8.4			1.3	1.1
251+10.93	TO	252+29.29	RT			52.8				4.6		
252+39.29	TO	252+69.29	RT						1.5			
252+80.71	TO	253+10.71	LT						1.5			
062-0056												
358+27.83	TO	359+70.00	LT		110.6				0.93	7.4		
358+59.14	TO	358+83.14	LT						0.93			
358+84.58	TO	358+91.63	RT									
359+00.41	TO	359+70.00	RT	13.5	54.1		121.8			2.7		
359+40.00	TO	359+70.00	LT					19.1			3.0	1.6
359+40.00	TO	359+70.00	RT					19.1			3.0	1.6
361+46.00	TO	361+76.00	LT					19.1			3.0	1.6
361+46.00	TO	361+76.00	RT					19.1			3.0	1.6
361+46.00	TO	362+88.17	LT		110.6					5.5		
361+46.00	TO	362+88.17	RT		110.6					5.5		
362+70.35	TO	362+94.35	LT						0.93			
362+32.85	TO	362+56.85	RT						0.93			
062-0057												
387+51.50	TO	388+22.50	LT					22.6			3.5	4.1
387+51.50	TO	391+44.27	LT	58.6		229.1	564.9					
388+14.59	TO	390+60.88	RT							9.6		
388+15.47	TO	390+60.88	RT	28.5		108.3	274.5					
388+85.63	TO	391+44.27	LT							10.0		
PAY TOTAL:				101	479	537	961	137	8	62	21	16

* SEE MAINLINE PAVING AND PATCHING SCHEDULES FOR ADDITIONAL QUANTITIES

MOWING SCHEDULE			
LOCATION			25000750
			MOWING
			ASSUMING 2 MOWINGS
STATION	TO	STATION	ACRE
SN 062-0059			
248+11.71	TO	253+10.71	0.38
SN 062-0056			
358+27.83	TO	363+24.35	0.38
SN 062-0057			
383+08.56	TO	391+57.38	0.39
SUB-TOTAL:			1.15
PAY TOTAL:			1.25

SIGNAGE SCHEDULE							
LOCATION		DESCRIPTION	72000100	72400100	72800100	73100100	
			SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSEMBLY - TYPE A	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT	
SIGN		SIZE	SQ FT	EACH	FOOT	EACH	
SN 062-0057							
NE QUAD - ISLAND PAVEMENT (SPECIAL)		STOP SIGN	30" X 30"	6.25	1.0	10.0	1
PAY TOTAL:			6	1	10	1	

CURB AND GUTTER (SPECIAL)				
LOCATION				X1700108
				CURB AND GUTTER (SPECIAL)
STATION	TO	STATION	LT/RT	FOOT
SN 062-0056				
361+26.50	TO	361+40.50	RT	14.0
SN 062-0057				
387+42.12	TO	385+57.12	LT	15.0
PAY TOTAL:				29



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
 SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 22
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

STAGING SCHEDULE S.N. 062-0056											
LOCATION			40600990	70106500	70106700	70107005	70400100	70400200	70600251	70600352	78200011
			TEMPORARY RAMP *	TEMPORARY BRIDGE TRAFFIC SIGNALS *	TEMPORARY RUMBLE STRIPS *	PAVEMENT MARKING BLACKOUT TAPE, 5" *	TEMPORARY CONCRETE BARRIER *	RELOCATE TEMPORARY CONCRETE BARRIER *	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3 *	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3 **	BARRIER WALL REFLECTORS, TYPE C *
TAPER RATE 1:40			SQ YD	EACH	EACH	FOOT	FOOT	FOOT	EACH	EACH	EACH
STATION	TO	STATION									
STAGE I						1480.3					
NORTH END				1	3						
SOUTH END				1	3						
357+19.78									1		
357+29.28	TO	358+05.55						75.0			56
358+15.74									1		
358+76.94									1		
358+87.17	TO	362+79.32						387.5			
362+89.56									1		
STAGE II						284.4					
358+26.45									1		
358+36.68	TO	362+79.32	11.1					437.5			
359+95.00	TO	359+70.00	11.1								
361+46.00	TO	361+51.00									
362+89.55									1		
POST STAGE											
359+40.00	TO	359+45.00	22.2								
359+65.00	TO	359+70.00	22.2								
361+46.00	TO	361+51.00	22.2								
361+71.00	TO	361+76.00	22.2								
PAY TOTAL:			111	1	6	1765	463	438	4	2	56

* SEE STAGING SCHEDULE S.N. 062-0059 AND STAGING SCHEDULE S.N. 062-0057 FOR ADDITIONAL QUANTITIES

** SEE STAGING SCHEDULE S.N. 062-0059 FOR ADDITIONAL QUANTITIES

PIPE CULVERT SCHEDULE							
LOCATION				50105220	54213450	542D0220	
				PIPE CULVERT REMOVAL	END SECTIONS, 15 INCH	PIPE CULVERTS CLASS D, TYPE 1, 15 INCH	
STATION	TO	STATION	LT/RT	FOOT	EACH	FOOT	
SN 062-0059							
248+34.50	TO	248+59.50	RT	25.0			
248+34.50	TO	248+82.50	RT		2	48.0	
PAY TOTAL:				25	2	48	

ENTRANCE SCHEDULE				
LOCATION		40200800	40201000	44000200
		AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE FOR TEMPORARY ACCESS	DRIVEWAY PAVEMENT REMOVAL
STATION	LT/RT	TON	TON	SQ YD
062-0059				
258+51.50	RT	3.5	13.0	
062-0057				
388+75.92	LT	6.5	15.0	17.6
PAY TOTAL:		10	28	18

EROSION SCHEDULE					
LOCATION		28200200	X2810812	X5015225	X6050310
		FILTER FABRIC	STONE DUMPED RIPRAP, CLASS B4 (SPECIAL)	PIPE CULVERT REMOVAL (SPECIAL)	FILLING INLETS, SPECIAL
STATION	LT/RT	SQ YD	TON	FOOT	EACH
SN 062-0059					
250+88.00	LT			12.0	1
250+97.00	RT			16.0	1
251+02.43	LT	11.9	7.9		
251+10.85	RT	15.8	10.6		
SN 062-0056					
359+70.00	LT	14.8	9.9		
359+70.00	RT	29.7	19.8		
359+75.00	LT				1
359+75.00	RT				1
PAY TOTAL:		72	48	28	4

ISLAND PAVEMENT (SPECIAL) SCHEDULE					
LOCATION			X1700005	X4420201	
			ISLAND PAVEMENT (SPECIAL)	PAVEMENT PATCHING (SPECIAL)	
STATION	TO	STATION	LT/RT	SQ FT	SQ YD
SN 062-0057					
385+32.47	TO	385+44.92	LT	130.0	21.4
PAY TOTAL:				130	21



USER NAME = SUSER\$
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISOR -
 REVISIONS -
 REVISOR -
 REVISIONS -

PLOT SCALE = 1:2
 PLOT DATE = 8/23/2023

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
 SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	23
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

PATCHING SCHEDULE											
LOCATION						40600290	44200168	44200180	X0556100	X4421000	
						BITUMINOUS MATERIALS (TACK COAT) *	PAVEMENT PATCHING TYPE II 14"	PAVEMENT PATCHING TYPE II 15"	PARTIAL DEPTH PATCHING (SPECIAL)	PARTIAL DEPTH PATCHING	
STATION	TO	STATION	DIRECTION	LENGTH	WIDTH	POUND	SQ YD	SQ YD	SQ YD	TON	
SN 062-0059											
241+61.36	TO	249+69.36	WB	8	12	8.0			11.0	1.2	
241+61.36	TO	249+69.36	EB	8	12	8.0			11.0	1.2	
251+06.64	TO	251+14.64	WB	8	12	8.0			11.0	1.2	
251+06.64	TO	251+14.64	EB	8	12	8.0			11.0	1.2	
SN 062-0056											
359+66.00	TO	359+70.00	NB	4	13	1.0		5.8			
359+66.00	TO	359+70.00	SB	4	13	1.0		5.8			
361+46.00	TO	361+50.00	NB	4	13	1.0		5.8			
361+46.00	TO	361+50.00	SB	4	13	1.0		5.8			
SN 062-0057											
386+30.50	TO	386+34.50	SB THRU	4	12	3.8	5.3				
386+30.50	TO	386+34.50	MEDIAN	4	13	4.2	5.8				
386+30.50	TO	386+34.50	NB THRU	4	13	4.2	5.8				
386+30.50	TO	386+34.50	NB RT	4	13	4.2	5.8				
387+51.50	TO	387+55.50	SB THRU	4	12	3.8			5.3	0.6	
387+51.50	TO	387+55.50	MEDIAN	4	13	4.2			5.8	0.7	
387+51.50	TO	387+55.50	NB THRU	4	13	4.2			5.8	0.7	
387+51.50	TO	387+55.50	NB RT	4	13	4.2			5.8	0.7	
PAY TOTAL :						69	23	23	67	7	

*SEE MAINLINE PAVING AND SHOULDERS SCHEDULE FOR ADDITIONAL QUANTITIES

SEEDING SCHEDULE									
LOCATION				25000210	25000400	25000500	25000600	25100115	
				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	
STATION	TO	STATION	LT/RT	ACRE	POUND	POUND	POUND	POUND	ACRE
SN 062-0059									
248+11.71	TO	253+10.71	LT/RT	0.049	4.4	4.4	4.4		0.049
SN 062-0056									
358+27.83	TO	362+88.17	LT/RT	0.034	3.1	3.1	3.1		0.034
SN 062-0057									
383+08.56	TO	391+44.27	LT/RT	0.018	1.6	1.6	1.6		0.018
SUB-TOTAL :				0.101	9.1	9.1	9.1		0.101
PAY TOTAL :				0.25	10	10	10		0.25

SIDEWALK SCHEDULE						
LOCATION				42400100	44000600	
				PORTLAND CEMENT CONCRETE SIDEWALK 4"	SIDEWALK REMOVAL	
STATION	TO	STATION	LT/RT	SQ FT	SQ FT	
SN 062-0057						
386+45.19	TO	386+55.19	RT	50.0	50.0	
387+31.85	TO	387+41.85	RT	50.0	50.0	
PAY TOTAL :				100	100	

STAGING SCHEDULE S.N. 062-0057															
LOCATION			40600990	70106500	70106700	70107005	70107007	70107012	70107024	70400100	70400200	70600251	70600255	70600322	78200011
			TEMPORARY RAMP *	TEMPORARY BRIDGE TRAFFIC SIGNALS *	TEMPORARY RUMBLE STRIPS *	PAVEMENT MARKING BLACKOUT TAPE, 5" *	PAVEMENT MARKING BLACKOUT TAPE, 7" *	PAVEMENT MARKING BLACKOUT TAPE, 12" *	PAVEMENT MARKING BLACKOUT TAPE, 24" *	TEMPORARY CONCRETE BARRIER *	RELOCATE TEMPORARY CONCRETE BARRIER *	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3 *	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	BARRIER WALL REFLECTORS, TYPE C *
STATION	TO	STATION	SQ YD	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH
STAGE I						2552.6		366.6							
NORTH END				1	3										
SOUTH END					3										
384+60.82													1		
386+22.17	TO	388+37.40							212.5						26.0
388+47.51											1				
STAGE II			25.6			990	106		44						
386+11.95													1		
384+71.00	TO	387+86.58						100	212.5						12.0
POST STAGE			124.4												
PAY TOTAL :			150	1	6	3542	106	367	44	312	212	1	1	1	38

* SEE STAGING SCHEDULE S.N. 062-0059 AND STAGING SCHEDULE S.N. 062-0056 FOR ADDITIONAL QUANTITIES

MODEL Path: \\s:\cadd\68G39\Bridg\Prep\Drawings - TWM\Consultant\Consultant - Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39\dot-schedule.dgn



USER NAME = \$USERS
DESIGNED -
DRAWN -
PLOT SCALE = 1:2
PLOT DATE = 8/23/2023

REVISOR -
REVISIONS -
CHECKED -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	24
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

LOCATION					70300100	70300150		70303100	70303120		70303160	70303210	78009000	78009004		78009012	78009024	78300202
					SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL		TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - MODIFIED URETHANE	TEMPORARY PAVEMENT MARKING - LINE 4" - MODIFIED URETHANE	TEMPORARY PAVEMENT MARKING - LINE 12" - MODIFIED URETHANE	TEMPORARY PAVEMENT MARKING - LINE 24" - MODIFIED URETHANE	MODIFIED URETHANE PAVEMENT MARKING LETTERS & SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL - WATER BLASTING		
STATION	TO	STATION	LOCATION	TYPE	FOOT	SQ FT	SQ FT	SQ FT	YELLOW	WHITE	WHITE	WHITE	WHITE	YELLOW	WHITE	YELLOW	WHITE	SQ FT
SN 060-0059																		
249+39.36	TO	251+36.64	EDGELINE, LT	SINGLE						197.3					197.3			65.8
249+39.36	TO	251+36.64	EDGELINE, RT	SINGLE			307.5			197.3					197.3			65.8
249+36.36	TO	251+36.64	CENTERLINE	SKIP-DASH	35.7	10.8			49.3					49.3				16.4
SN 060-0056																		
359+40.00	TO	361+76.00	EDGELINE, LT	SINGLE	24.0	2.7				236.0					236.0			78.7
359+40.00	TO	361+76.00	EDGELINE, RT	SINGLE	24.0	2.7	735.2			236.0					236.0			78.7
359+40.00	TO	361+76.00	CENTERLINE	DOUBLE	39.6	7.9			472.0					472.0				157.3
SN 060-0057																		
383+08.56	TO	384+57.40	EDGELINE, LT	SINGLE						148.8					148.8			49.6
385+26.46	TO	385+28.46	SB STOP BAR	SINGLE								26.4			284.8		40.4	52.7
386+11.50	TO	386+13.50	NB STOP BAR	SINGLE								27.6					27.6	55.3
386+12.50	TO	387+51.50	EDGELINE, RT	SINGLE						139.0					139.0			46.3
386+12.50	TO	387+93.90	EDGELINE, LT	SINGLE	34.1	8.6				181.4					181.4			60.5
386+12.50	TO	391+44.27	EDGELINE, LT	SINGLE						531.8					531.8			177.2
386+26.18	TO	389+30.78	CENTER MEDIAN DIAGONALS	SINGLE			2029.6				206.2					206.2		206.2
386+43.90	TO	386+43.90	RIGHT TURN ARROW					15.6				15.6						15.6
388+22.50	TO	390+60.88	EDGELINE, RT	SINGLE						238.4					238.4			79.5
386+13.45	TO	391+44.27	STRIPED CENTER MEDIAN	DOUBLE	86.92	16.9			1793.9					1793.9				597.9
387+51.50	TO	388+22.50	CENTERLINE	DOUBLE		4.7												
387+68.90	TO	387+68.90	RIGHT TURN ARROW					15.6				15.6						15.6
PAY TOTAL:					244	54	3072	31	2315	2106	206	54	31	2315	2391	206	68	1819
							3127			4421					4706			

MAINLINE PAVING SCHEDULE

LOCATION					40600290		40604060		40800029	40800050	78100100	78300200
					BITUMINOUS MATERIALS (TACK COAT) *		HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50		BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HOT-MIX ASPHALT SURFACING	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
STATION	TO	STATION	LT/RT	MAINLINE WIDTH	0.08 LBS/ SQ FT	QTY FOR JOINT TREATMENT ON CL	2"	QTY FOR JOINT TREATMENT ON CL	0.08 LBS/SQ FT	2"	EACH	EACH
SN 062-0059												
249+39.36	TO	249+69.36		24.0	57.6	1.2	9.0	0.2				
251+06.64	TO	251+36.64		24.0	57.6	1.2	9.0	0.2				
SN 062-0056												
359+40.00	TO	359+70.00		24.0	57.6	1.2	10.8	0.2				
359+46.00	TO	359+76.00		24.0	57.6	1.2	10.8	0.2			1	1
SN 062-0057												
386+08.50	TO	386+34.50		51.0	121.8	1.0	18.9	0.2				
387+51.50	TO	388+22.50		51.0	288.7	2.8	44.9	0.4			6	6
387+51.50	TO	388+22.50	RT						72.8	11.3		
PAY TOTAL:					641	9	103	1	73	11	7	7
					650		105					

* SEE PATCHING AND SHOULDERS SCHEDULES FOR ADDITIONAL QUANTITIES

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES



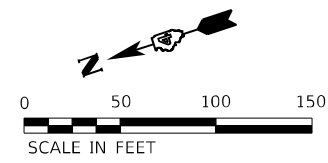
TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

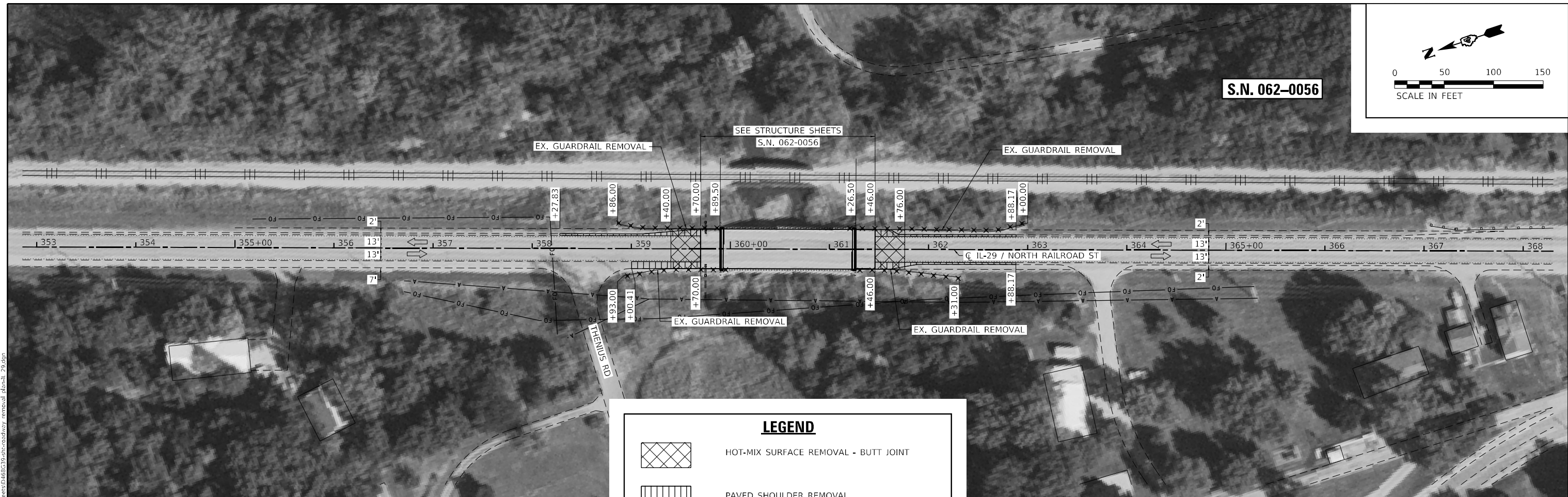
SCALE:	SHEET 5	OF 5	SHEETS	STA.	TO STA.
--------	---------	------	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	25
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL Path: S:\GENEXCEL\Studies & Plans\Sub 9 - Adena\Contract\68G39 Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Sheets\68G39-Sub-Structure.dgn

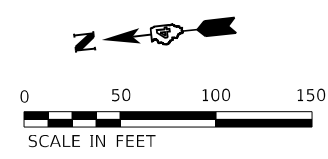


S.N. 062-0056

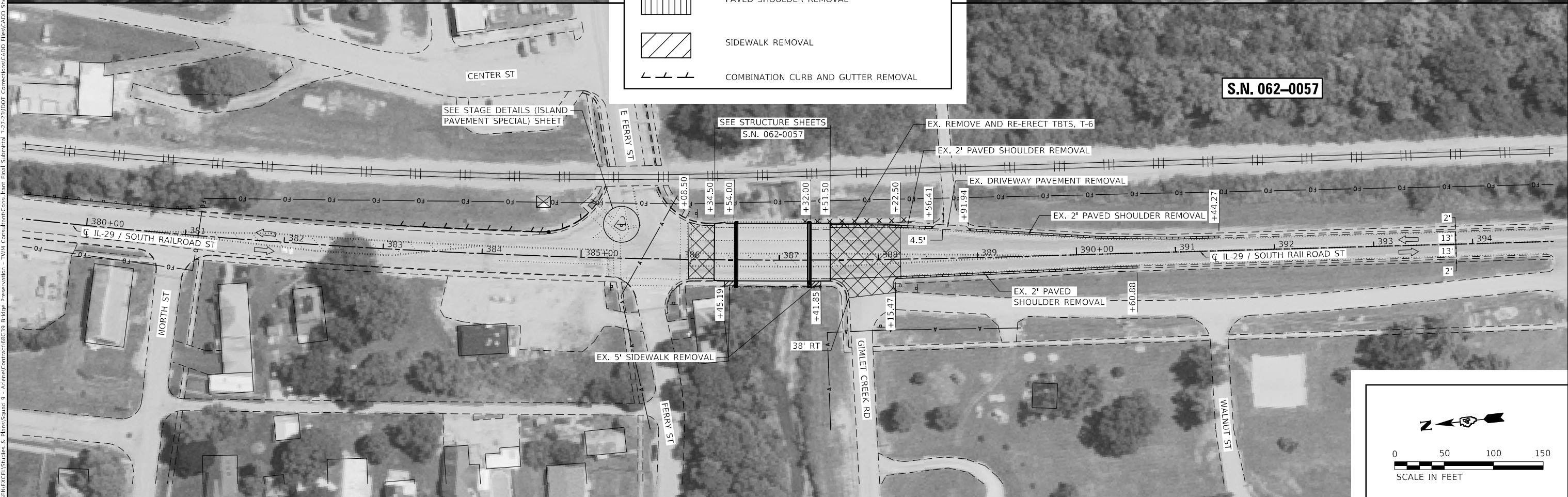


LEGEND

	HOT-MIX SURFACE REMOVAL - BUTT JOINT
	PAVED SHOULDER REMOVAL
	SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL



S.N. 062-0057



MODEL: D:\p\11...
 FILE NAME: S:\CEN\EXCEL\Studies & Plans\Study 9 - Adhera\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant - Final Submittal 7-27-23\DOT Corrective\CADD Sheets\68G39-ctc-roadway_removal_alba-31_29.dgn
 TWM ENGINEERING GEOSPATIAL SERVICES

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

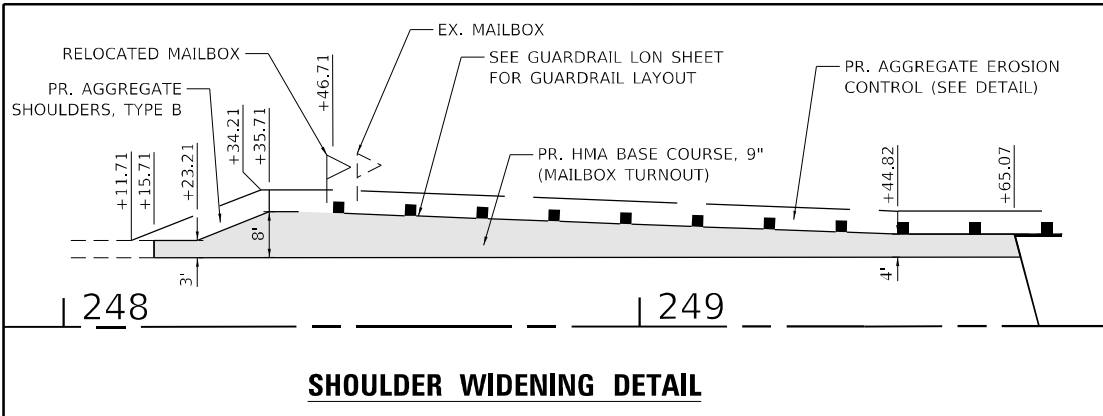
USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY REMOVAL PLAN
IL ROUTE 29 - S.N. 062-0056 & S.N. 062-0057**

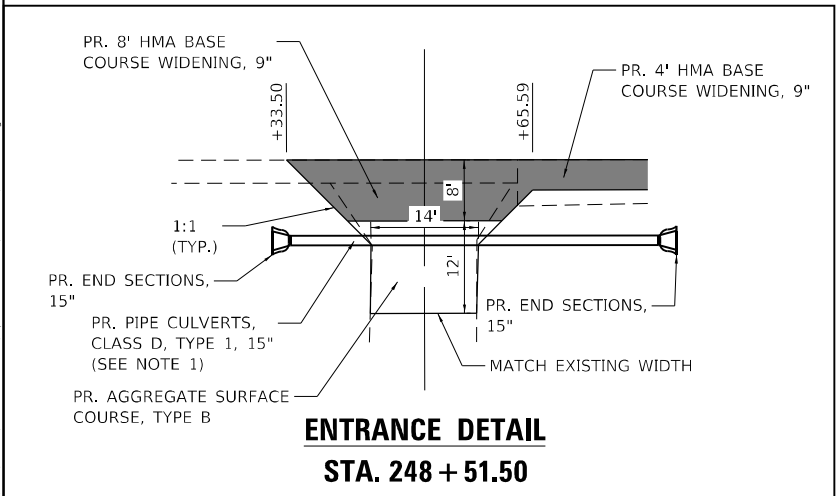
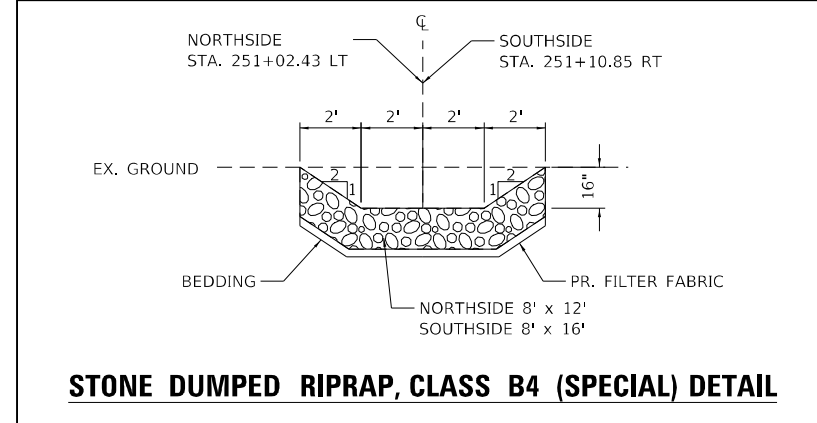
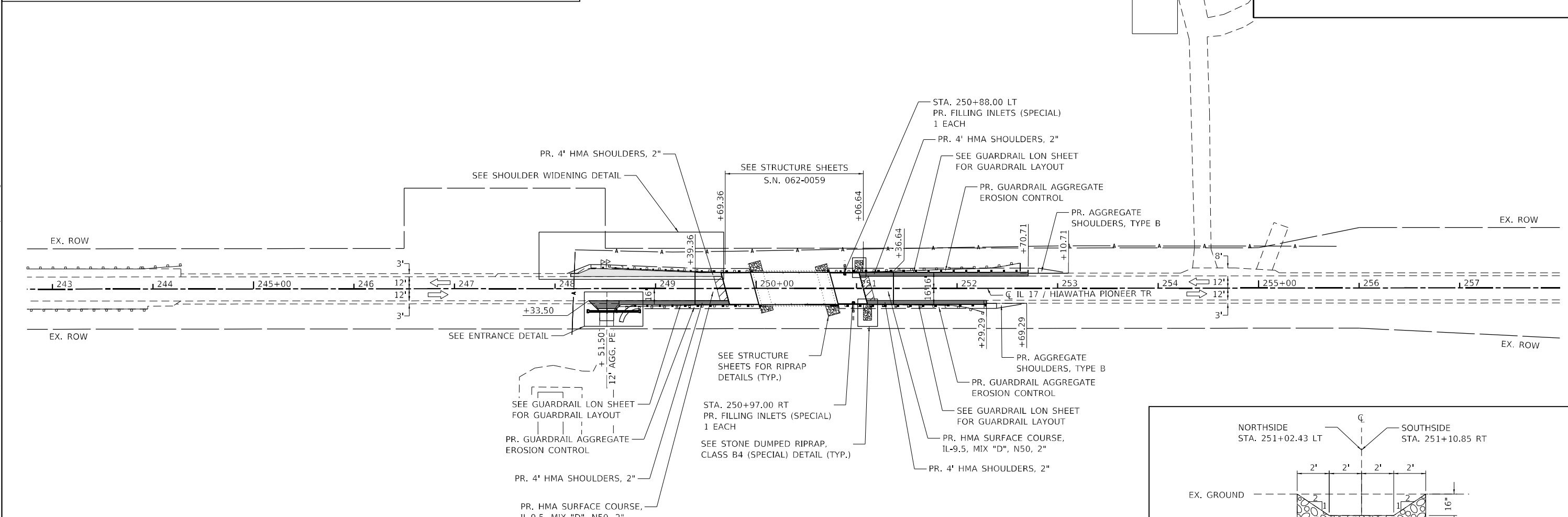
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 27
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				



LEGEND

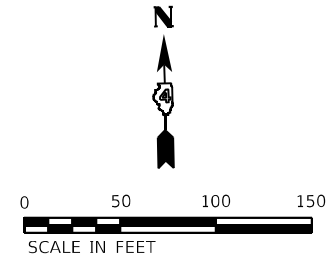
	PARTIAL DEPTH PATCHING (SPECIAL) PARTIAL DEPTH PATCHING (SEE SCHEDULES FOR L X W)
	HMA BASE COURSE, 9"
	HMA BASE COURSE WIDENING, 9"
	STONE DUMPED RIPRAP, CLASS B4 (SPECIAL)



S.N. 062-0059

NOTES

1. NO SURVEY WAS PERFORMED ON THIS PROJECT. THE PROPOSED ENTRANCE PIPE CULVERT SHALL MATCH THE GRADES OF THE EXISTING DITCH.
2. THE PROPOSED ENTRANCE PIPE CULVERT SHALL BE CONSTRUCTED TO MISS THE PROPOSED GUARDRAIL POSTS.
3. GRADING AND SHAPING OF THE EXISTING DITCHES MAY BE REQUIRED TO CONSTRUCT THE PROPOSED ENTRANCE PIPE CULVERT. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERTS, CLASS D, TYPE 1 15".
4. THE ENGINEER SHALL DETERMINE THE PROPOSED PROFILE ALONG THE HMA OVERLAY TO REDUCE/ELIMINATE THE BUMP AT THE EXISTING BRIDGE APPROACH PAVEMENT
5. RIGHT OF WAY LIMITS BASED ON ROW MAPS. ACTUAL LIMITS MAY VARY.



 TWM, INC. WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = \$USERS	DESIGNED -	REVISED -
	PLOT SCALE = 1:100	DRAWN -	REVISED -
	PLOT DATE = 8/23/2023	CHECKED -	REVISED -
		DATE -	REVISED -




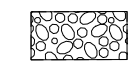
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN	
IL ROUTE 17 - S.N. 062-0059	
SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS
STA.	TO STA.

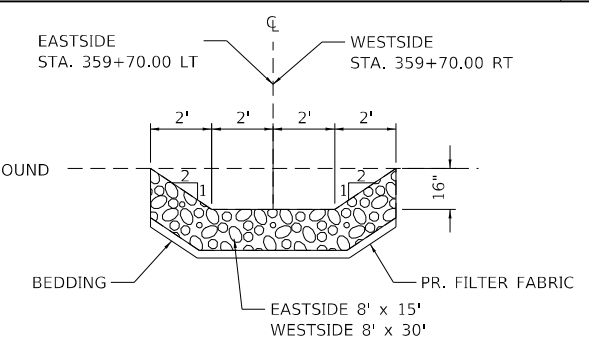
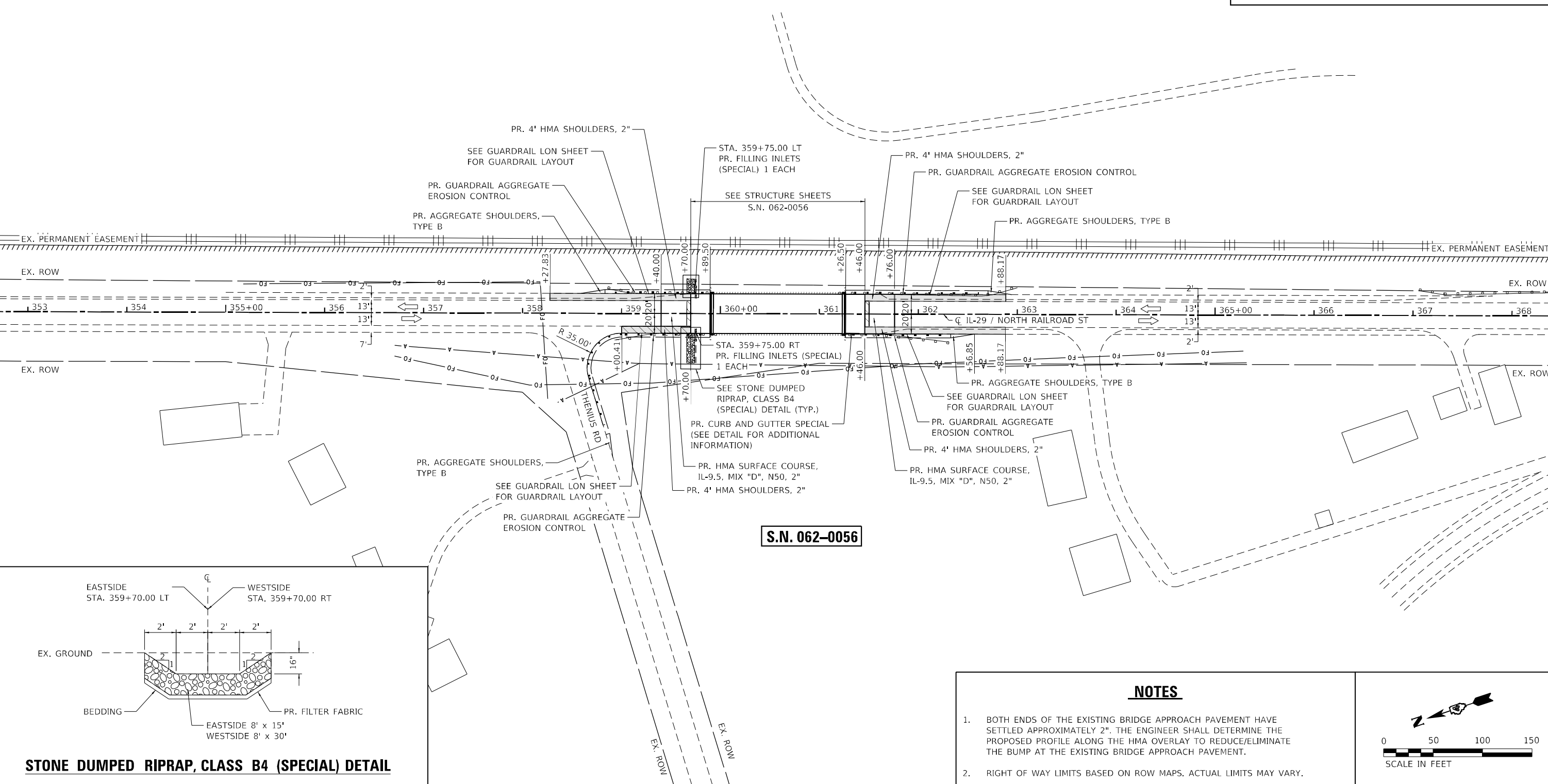
F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 28
*(3B-BR, BR-1; 104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\...
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Reports\Squad 9 - Admin\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Files\CADD Sheets\68G39-sh-4-ba-11-17.dgn

LEGEND

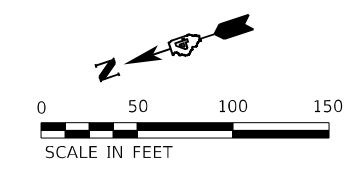
-  PAVEMENT PATCHING
(SEE SCHEDULES FOR L X W X D)
-  HMA BASE COURSE, 9"
-  HMA BASE COURSE, 9"
AGGREGATE BASE COURSE, TYPE A
-  STONE DUMPED RIPRAP, CLASS B4 (SPECIAL)

MODEL: Default
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Study 9 - Alton\Contract\68G39 - Bridge Presentation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Sheets\68G39-eh-Abs-II-29-10.rvt.dgn
 MODEL: Default
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Study 9 - Alton\Contract\68G39 - Bridge Presentation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Sheets\68G39-eh-Abs-II-29-10.rvt.dgn



STONE DUMPED RIPRAP, CLASS B4 (SPECIAL) DETAIL

- NOTES**
- BOTH ENDS OF THE EXISTING BRIDGE APPROACH PAVEMENT HAVE SETTLED APPROXIMATELY 2". THE ENGINEER SHALL DETERMINE THE PROPOSED PROFILE ALONG THE HMA OVERLAY TO REDUCE/ELIMINATE THE BUMP AT THE EXISTING BRIDGE APPROACH PAVEMENT.
 - RIGHT OF WAY LIMITS BASED ON ROW MAPS. ACTUAL LIMITS MAY VARY.



TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -




STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

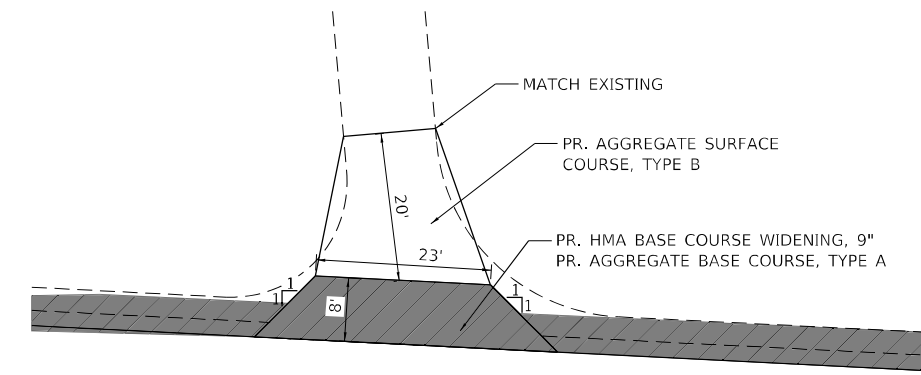
PLAN
IL ROUTE 29 - S.N. 062-0056

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

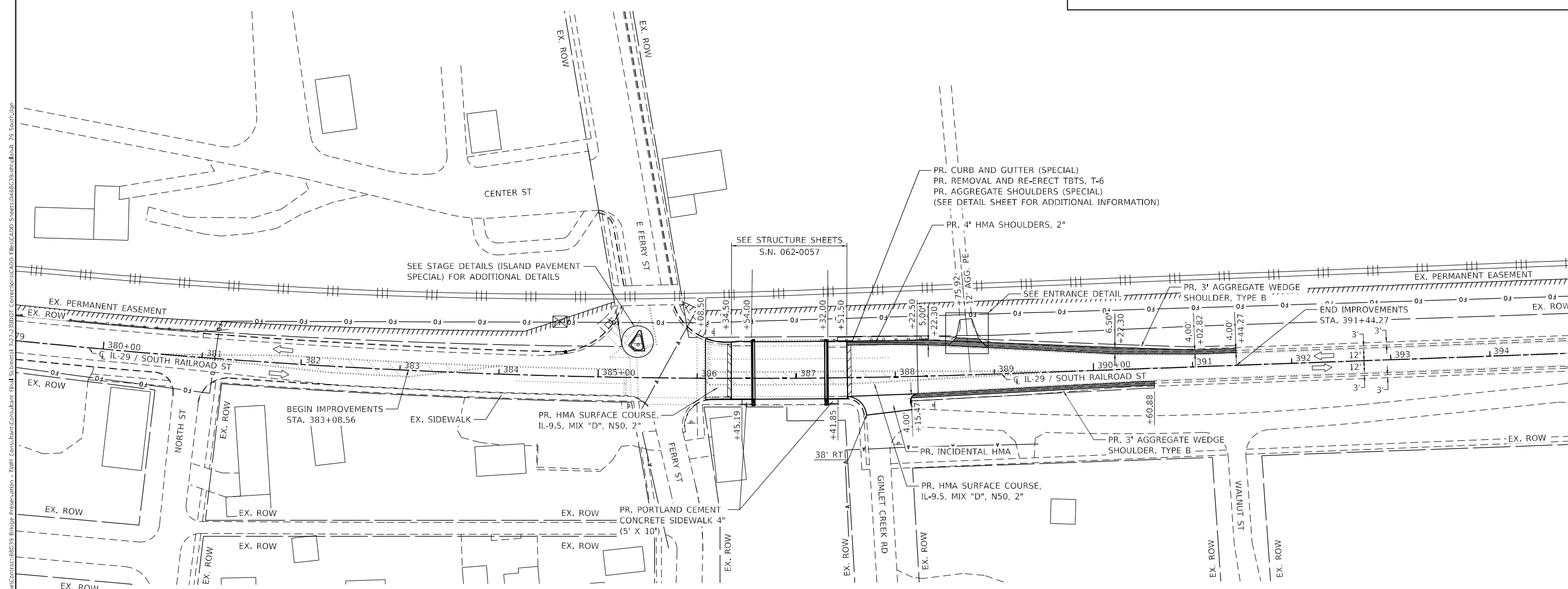
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	29
*(3B-BR-1;(104b)BR-1)BDR,BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT PATCHING
(SEE SCHEDULES FOR L X W X D)
-  PARTIAL DEPTH PATCHING (SPECIAL)
PARTIAL DEPTH PATCHING
(SEE SCHEDULE FOR L X W)
-  HMA BASE COURSE WIDENING, 9"
AGGREGATE BASE COURSE, TYPE A



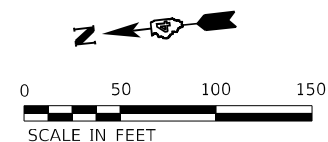
**ENTRANCE DETAIL
STA. 388 + 75.92**



S.N. 062-0057

NOTES

1. THE ENGINEER SHALL DETERMINE THE PROPOSED PROFILE ALONG THE HMA OVERLAY TO REDUCE/ELIMINATE THE BUMP AT THE EXISTING BRIDGE APPROACH PAVEMENT.
2. RIGHT OF WAY LIMITS BASED ON ROW MAPS. ACTUAL LIMITS MAY VARY.



MODEL: Default
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Admin\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 232321001 Correction\CADD Files\CADD Sheets\68G39-sh-4-Box-II-79-South.dgn
 MODEL: Default
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Admin\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 232321001 Correction\CADD Files\CADD Sheets\68G39-sh-4-Box-II-79-South.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN
IL ROUTE 29 - S.N. 062-0057**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	30
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

SUGGESTED STAGE CONSTRUCTION SEQUENCE

S.N. 062-0059
(IL 17)

PRE-STAGE

1. REMOVE EXISTING SHOULDERS.
2. WIDEN EXISTING ROADWAY FOR STAGE I AND II TRAFFIC.
3. RECONSTRUCT ENTRANCE.
4. PLACE AGGREGATE WEDGE SHOULDER ALONG PROPOSED WIDENING.
5. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701306 AND 701326.

STAGE I AND II

1. ALL OTHER WORK (SEE STAGING PLAN)

STAGE III

1. PATCH ROADWAY.
2. MILL EXISTING ROADWAY AND SHOULDERS FOR PROPOSED HMA RESURFACING.
3. HMA ROADWAY AND SHOULDER RESURFACING.
4. PLACE AGGREGATE SHOULDERS (SPECIAL).
5. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701201 AND 701306.

S.N. 062-0056
(IL 29)

PRE-STAGE

1. REMOVE EXISTING SHOULDERS.
2. WIDEN EXISTING ROADWAY FOR STAGE I AND II TRAFFIC.
3. PLACE AGGREGATE WEDGE SHOULDER ALONG PROPOSED WIDENING.
4. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701306 AND 701326.

STAGE I AND II

1. ALL OTHER WORK (SEE STAGING PLAN)

STAGE III

1. PATCH ROADWAY.
2. MILL EXISTING ROADWAY AND SHOULDERS FOR PROPOSED HMA RESURFACING.
3. HMA ROADWAY AND SHOULDER RESURFACING.
4. PLACE AGGREGATE SHOULDERS (SPECIAL).
5. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701201 AND 701306.

S.N. 062-0057
(IL 29)

PRE-STAGE

1. REMOVE EXISTING SHOULDERS.
2. RECONSTRUCT ENTRANCE.
3. REMOVE EXISTING ISLAND AND REPLACE PAVEMENT PORTION.
4. PLACE AGGREGATE WEDGE SHOULDER ALONG PROPOSED WIDENING.
5. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701306 AND 701326.

STAGE I AND II

1. ALL OTHER WORK (SEE STAGING PLAN)

STAGE III

1. PATCH ROADWAY.
2. MILL EXISTING ROADWAY AND SHOULDERS FOR PROPOSED HMA RESURFACING.
3. HMA ROADWAY AND SHOULDER RESURFACING.
4. PLACE AGGREGATE SHOULDERS (SPECIAL).
5. RECONSTRUCT RAISED PORTION OF ISLAND.
6. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701501, 701502 AND 701701.

MODEL Path: \\... FILE NAME: ...



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USER\$	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

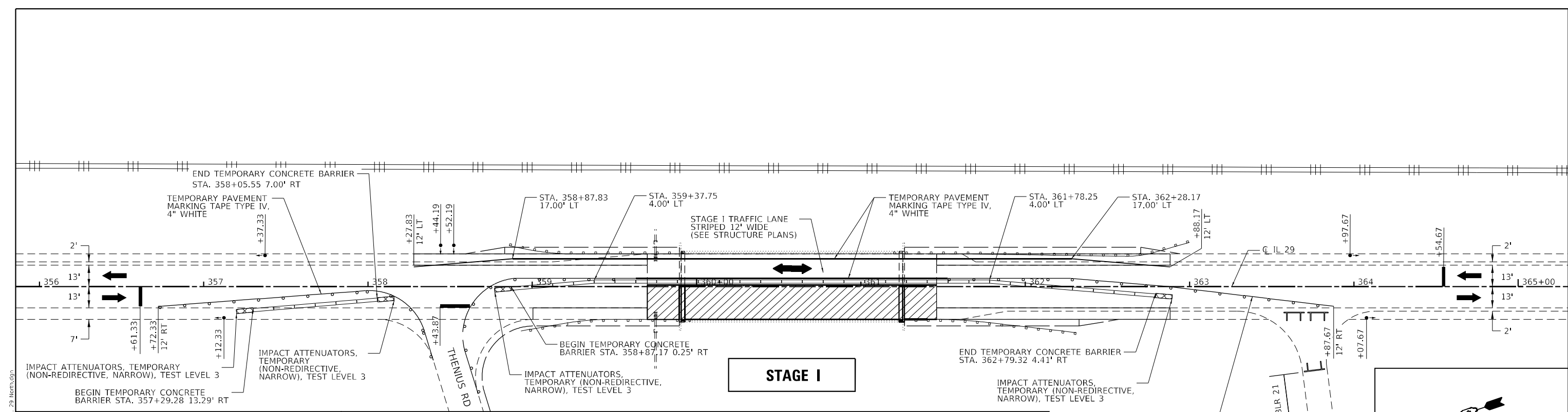
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGE CONSTRUCTION SEQUENCE

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	31
*(3B-BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: C:\PROJECTS\ILLINOIS\Bridges_Preservation_TWM\Contract\68G39_Bridge_Preservation_TWM\Consultant\Final_Submittal_72723100T_Corrected\CADD_Sheets\0468G39-sh-staging-ii_39_10.rvt.dgn
 MODEL: Default
 FILE NAME: C:\PROJECTS\ILLINOIS\Bridges_Preservation_TWM\Contract\68G39_Bridge_Preservation_TWM\Consultant\Final_Submittal_72723100T_Corrected\CADD_Sheets\0468G39-sh-staging-ii_39_10.rvt.dgn



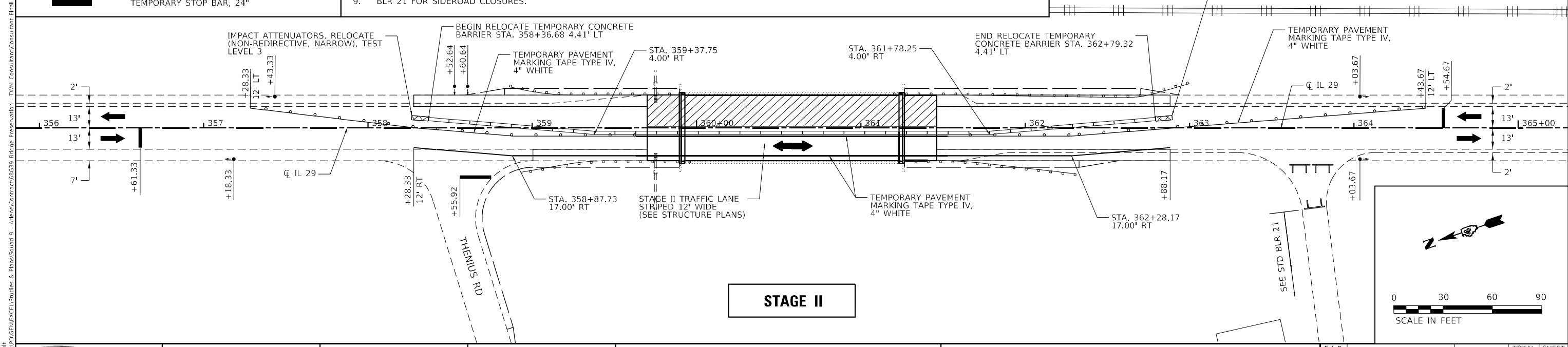
STAGE I

LEGEND

- WORK AREA
- IMPACT ATTENUATORS
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE
- TEMPORARY STOP BAR, 24"

NOTES:

1. ALL OFFSET AND DIMENSIONS FOR THE TEMPORARY CONCRETE BARRIER ARE TO THE TRAFFIC FACE OF THE TEMPORARY CONCRETE BARRIER.
2. USE BLACKOUT TAPE APPROVED BY THE ENGINEER TO COVER ANY CONFLICTING RAISED REFLECTIVE PAVEMENT MARKERS. USE A MATERIAL APPROVED BY THE ENGINEER TO COVER THE LENSES PRIOR TO THE PLACEMENT OF THE BLACKOUT TAPE IN ORDER TO PROTECT THE LENSES FROM THE BLACKOUT TAPE ADHESIVE. ALL COSTS ASSOCIATED WITH PROVIDING, INSTALLING, AND REMOVING THE EXTRA MATERIAL TO COVER THE LENSES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PAVEMENT MARKING BLACKOUT TAPE OF THE SPECIFIED SIZE.
3. HMA OVERLAY AND PATCHING WORK ON NB AND SB IL 29 SHALL BEGIN AFTER COMPLETION OF STAGE II.
4. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD 701321 EXCEPT WHERE MODIFIED ON THIS PLAN SHEET.
5. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
6. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AT THE LOCATIONS INDICATED ON THE PLAN SHEETS OR DIRECTED BY THE ENGINEER.
7. A MINIMUM OF 2 SIGNAL HEADS ARE REQUIRED PER APPROACH.
8. THE SIGNAL TIMING/ PHASING FOR THE SIDE ROAD SHALL BE PROGRAMMED TO MINIMIZE DELAY AT THE OTHER PHASES.
9. BLR 21 FOR SIDEROAD CLOSURES.



STAGE II

TWM, INC.
 ENGINEERING GEOSPATIAL SERVICES
 IL DESIGN FIRM LICENSE NO: 184-001220

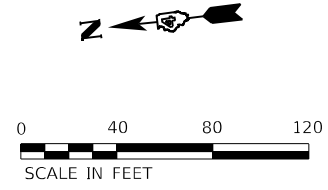
USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:60	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLAN
IL ROUTE 29 - S.N. 062-0056

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 33
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR		CONTRACT NO. 68G39		
		ILLINOIS FED. AID PROJECT		



SEE STAGE DETAILS (ISLAND PAVEMENT SPECIAL) SHEET FOR ADDITIONAL INFORMATION

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 (SEE NOTE 1)

BEGIN TEMPORARY CONCRETE BARRIER STA. 386+22.17 4.00' LT

END TEMPORARY CONCRETE BARRIER STA. 388+37.40 9.75' LT

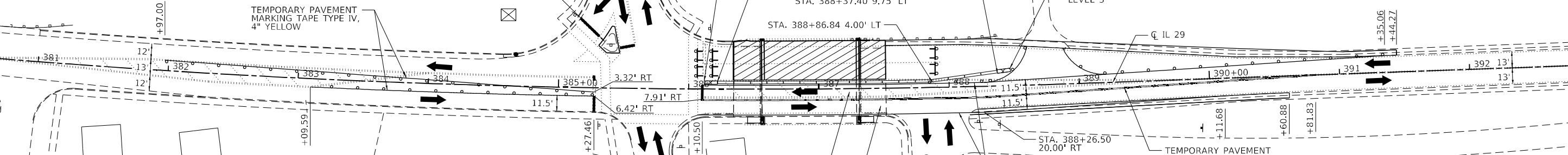
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3

TEMPORARY PAVEMENT MARKING TAPE TYPE IV, 4" YELLOW

STA. 388+86.84 4.00' LT

CL IL 29

+35.06
+44.27



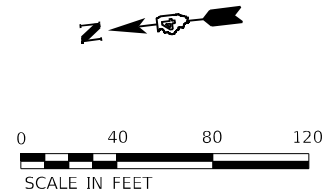
NOTE:

- FOR STAGE I, THE IMPACT ATTENUATOR USED ON THE NORTH END OF THE TEMPORARY CONCRETE BARRIER SHALL HAVE A HEIGHT OF 30 INCHES OF LESS
- ALL OFFSET AND DIMENSIONS FOR THE TEMPORARY CONCRETE BARRIER ARE TO THE TRAFFIC FACE OF THE TEMPORARY CONCRETE BARRIER
- USE BLACKOUT TAPE APPROVED BY THE ENGINEER TO COVER ANY CONFLICTING RAISED REFLECTIVE PAVEMENT MARKERS. USE A MATERIAL APPROVED BY THE ENGINEER TO COVER THE LENSES PRIOR TO THE PLACEMENT OF THE BLACKOUT TAPE IN ORDER TO PROTECT THE LENSES FROM THE BLACKOUT TAPE ADHESIVE. ALL COSTS ASSOCIATED WITH PROVIDING, INSTALLING, AND REMOVING THE EXTRA MATERIAL TO COVER THE LENSES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PAVEMENT MARKING BLACKOUT TAPE OF THE SPECIFIED SIZE.
- SEE STAGE DETAILS (ISLAND PAVEMENT SPECIAL) DETAIL SHEET
- HMA OVERLAY AND PATCHING IN NB AND SB IL 29 SHALL BE CONSTRUCTED AFTER COMPLETION OF STAGE II.
- BLR 21 FOR SIDEROAD CLOSURES.
- FOR STAGE II, SIDEWALK TO BE CLOSED ACCORDING PER STANDARD 701801.

LEGEND

- WORK AREA
- IMPACT ATTENUATORS
- BARRICADE, DRUM OR VERTICAL PANEL AT 25' CENTERS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY STOP BAR, 24"
- ADDITIONAL CONCRETE BARRIER REQUIRED FOR STAGE II

STAGE I



TEMPORARY PAVEMENT MARKING TAPE TYPE IV, 4" DOUBLE YELLOW

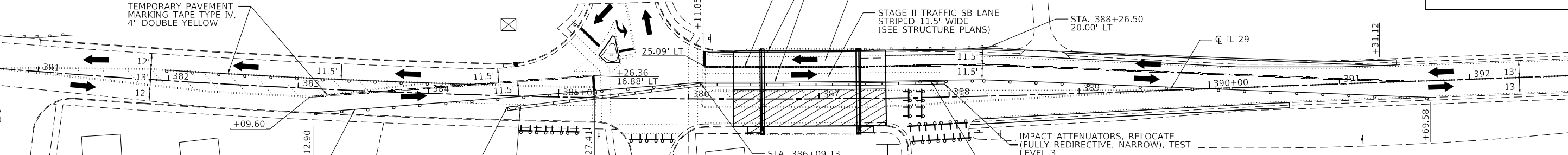
TEMPORARY PAVEMENT MARKING TAPE TYPE IV, 4" WHITE

STAGE II TRAFFIC NB LANE STRIPED 11.5' WIDE (SEE STRUCTURE PLANS)

STAGE II TRAFFIC SB LANE STRIPED 11.5' WIDE (SEE STRUCTURE PLANS)

STA. 388+26.50 20.00' RT

+31.12



TEMPORARY PAVEMENT MARKING TAPE TYPE IV, 4" DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING TAPE TYPE IV, 4" WHITE

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2

BEGIN RELOCATE TEMPORARY CONCRETE BARRIER STA. 384+71.00 7.58' RT *

STAGE II

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

END RELOCATE TEMPORARY CONCRETE BARRIER STA. 387+86.58 12.00' LT *

+69.58



USER NAME = \$USERS
 PLOT SCALE = 1:80
 PLOT DATE = 8/23/2023

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

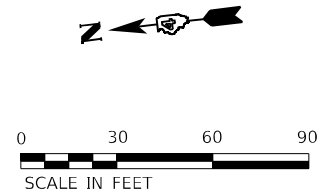
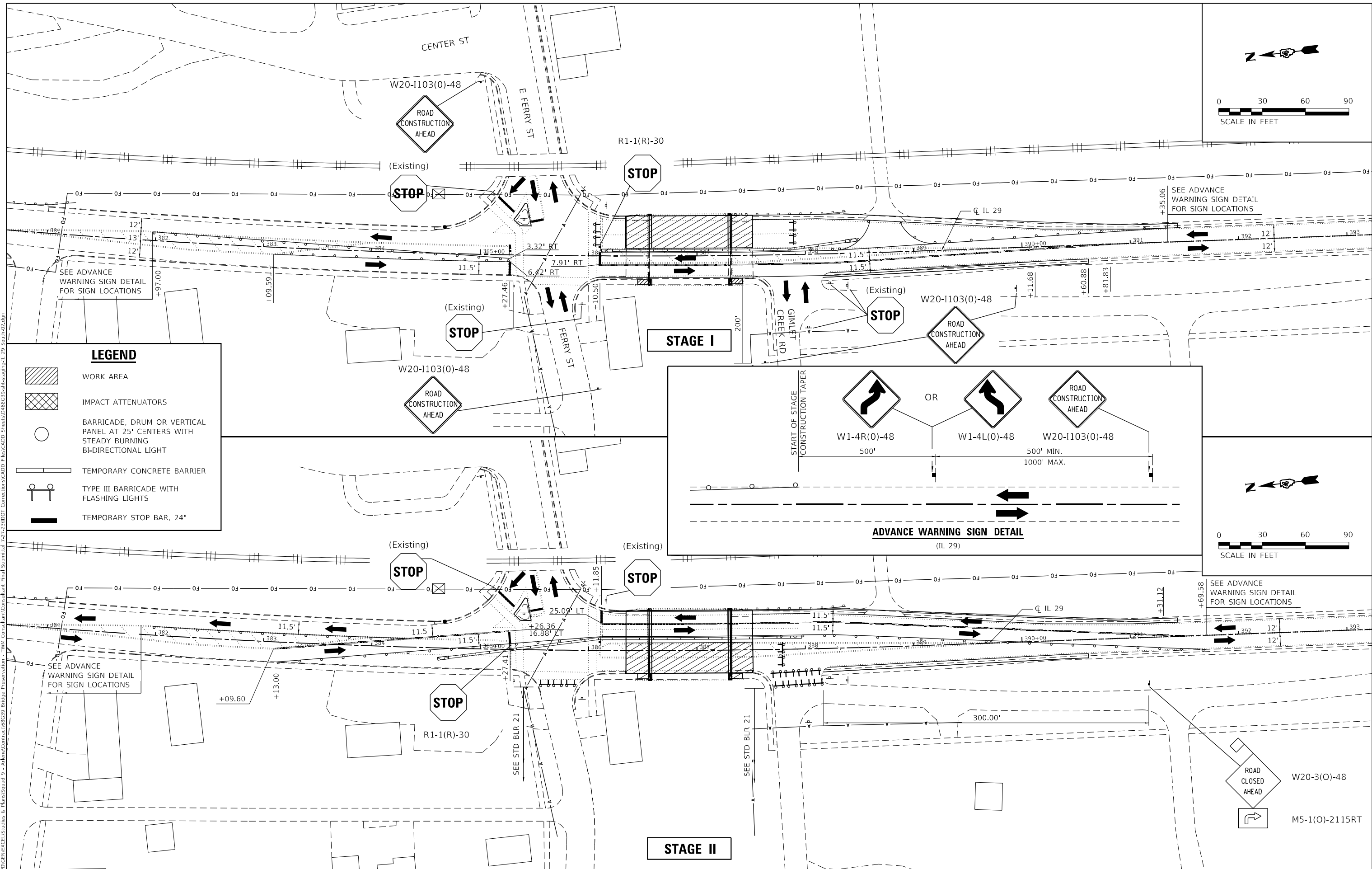
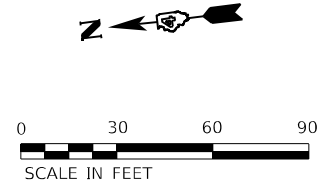
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
IL ROUTE 29 - S.N. 062-0057**

SCALE: 1" = 40' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	34
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\... TWM\Consultant\Consultant Final\Submittal 72723100T Correction\CADD Files\CADD Sheets\0468G39-sh-stgplan-11_29_50.dwg



LEGEND

- WORK AREA
- IMPACT ATTENUATORS
- BARRICADE, DRUM OR VERTICAL PANEL AT 25' CENTERS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY STOP BAR, 24"

MODEL: Default
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Adams\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Sheets\68G39-sh-stgplan-11-29-Subh-02.dwg



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:80	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

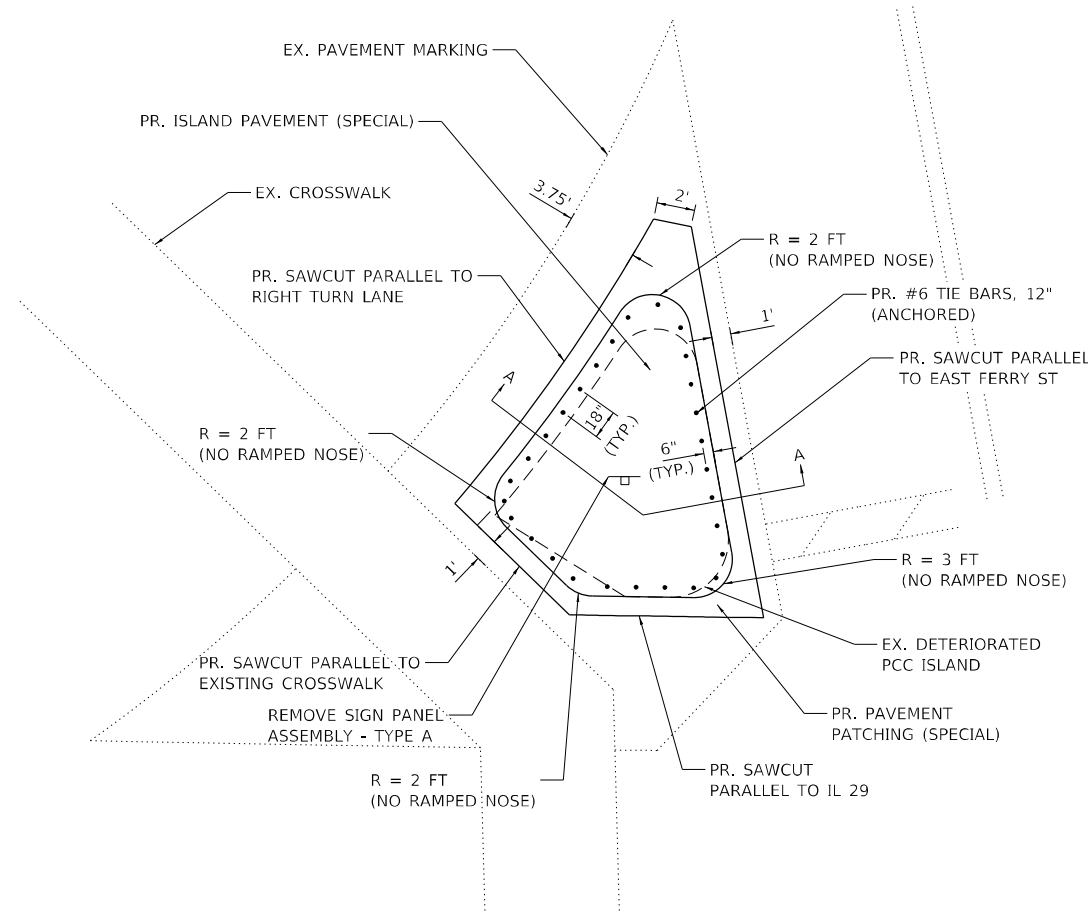
STAGING PLAN SIGNAGE
IL ROUTE 29 - S.N. 062-0057

SCALE: 1" = 40' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	35
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				



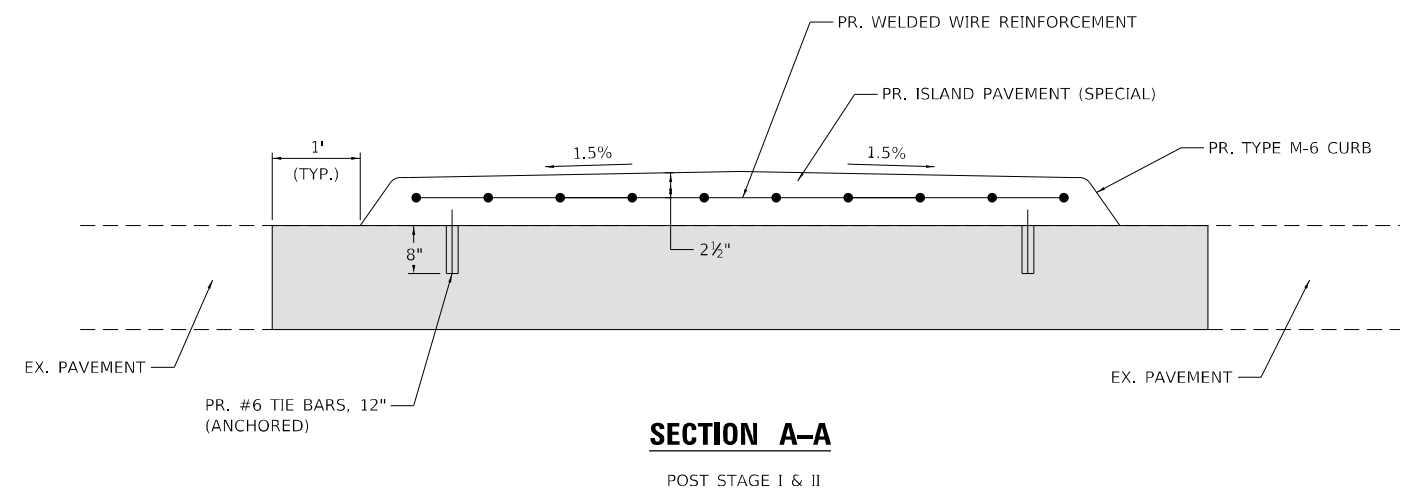
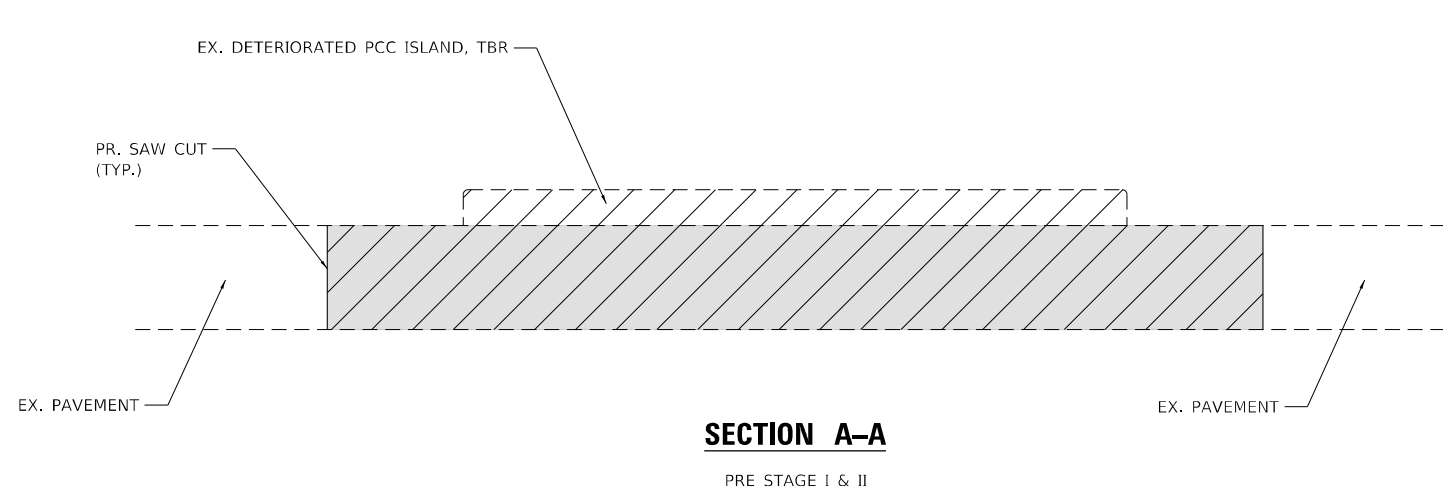
N.T.S.



NOTES:

1. CONSTRUCT PROPOSED PAVEMENT PATCHING (SPECIAL) PRIOR TO STAGES I AND II.
2. CONSTRUCT PROPOSED ISLAND PAVEMENT (SPECIAL) AFTER COMPLETION OF STAGES II.
3. SEE SPECIAL PROVISION - ISLAND PAVEMENT (SPECIAL)
4. SEE SPECIAL PROVISION - PAVEMENT PATCHING (SPECIAL)

**ISLAND PAVEMENT (SPECIAL) – NE QUAD IL 29/EAST FERRY STREET
PLAN VIEW**



PAVEMENT PATCHING (SPECIAL)

MODEL Path: \\...
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Quad 9 - Alton\Contract\68G39 - Bridge Preservation - TWM\Consultant\Final Submittal 7-27-23\DOT Correction\CADD Files\CADD Sheets\68G39-eh-detail-island pavement special.dgn



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:20	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE DETAILS (ISLAND PAVEMENT SPECIAL)
IL ROUTE 29 – S.N. 062-0057**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	36
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated. Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Synthetic fibers are not required for the Bridge Deck Microsilica Concrete Overlay.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Proposed Cross Section & Stage Construction Details
- 3 Temporary Concrete Barrier
- 4 Parapet Replacement Details

TOTAL BILL OF MATERIAL

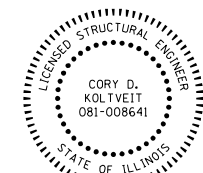
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4 (Special)	Ton	-	76	76
Concrete Removal	Cu. Yd.	0.8	-	0.8
Concrete Superstructure	Cu. Yd.	0.8	-	0.8
Bridge Deck Grooving	Sq. Yd.	463	-	463
Protective Coat	Sq. Yd.	494	-	494
Reinforcement Bars, Epoxy Coated	Pound	100	-	100
Surface Filler (Special)	Gallon	1.7	-	1.7
Protective Coat (Special)	Sq. Yd.	112	-	112
Bridge Deck Scarification, 3/4"	Sq. Yd.	494	-	494
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	494	-	494

* Apply to overlay only. (Bridge & Appr. Slab)
 ** Apply to parapets only. (Bridge)

DESIGN STRESSES

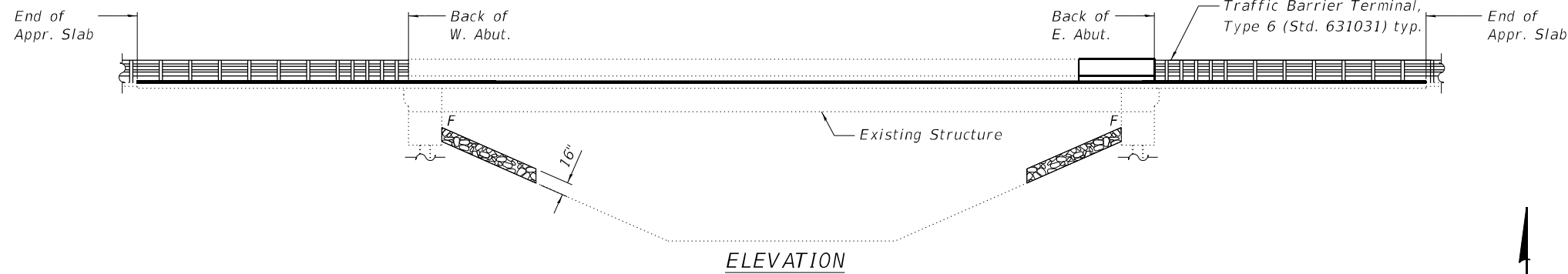
FIELD UNITS (New Const.)

f'c = 4,000 psi (Concrete Superstructure)
 fy = 60,000 psi (Reinforcement)

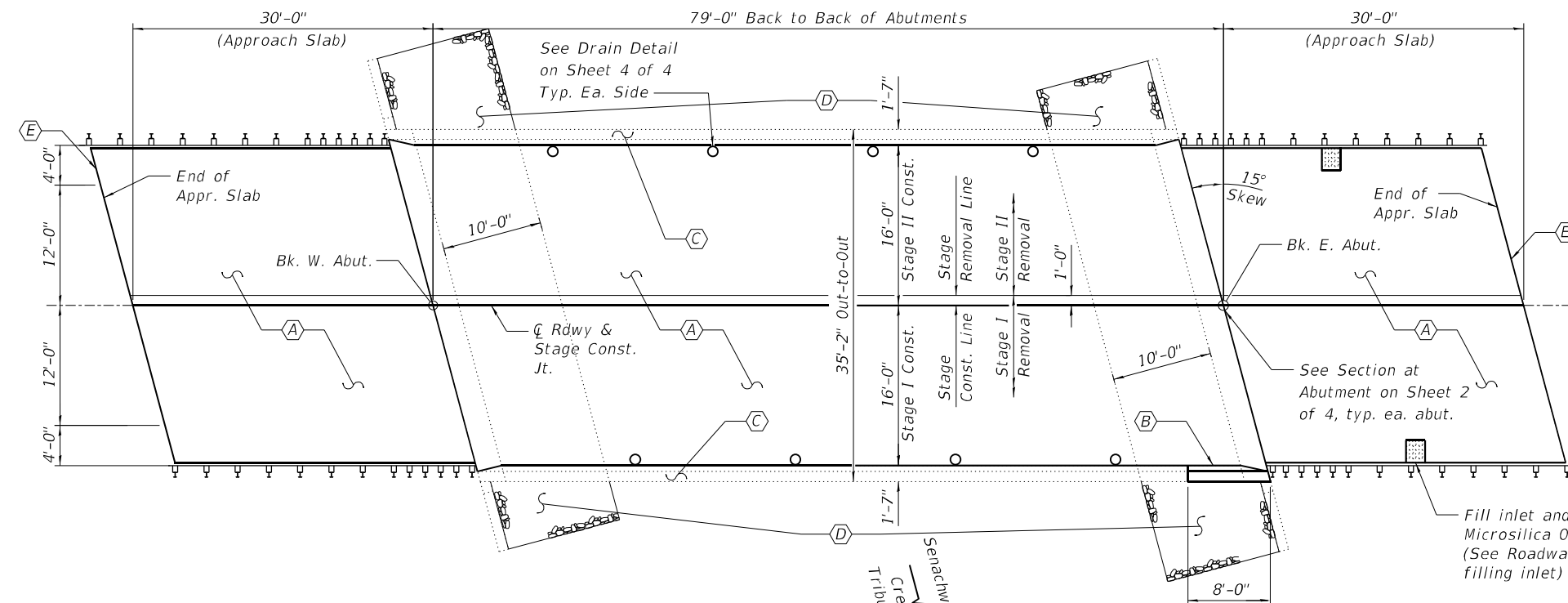


Cory D. Koltveit

EXPIRES: 11/30/2024
 DATE: 07/21/2023



ELEVATION



PLAN

- (A) - 3/4" Bridge Deck Scarification, 2 1/4" Microsilica Concrete Overlay to Bridge deck and approach slab
- (B) - Remove and Replace Parapet
- (C) - Protective Coat (Special) and Surface Filler (Special) applied to all surfaces of the parapets (See Parapet Sealing Detail on Sheet 2 of 4)
- (D) - Stone Dumped Riprap, Class A4 (Special) in front of abutments and wingwalls.
- (E) - HMA transitions to roadway. (See Roadway Plans for details)

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
 IL ROUTE 17 OVER SENACHWINE CREEK TRIBUTARY
 STRUCTURE NO. 062 - 0059**

SHEET NO. 1 OF 4 SHEETS

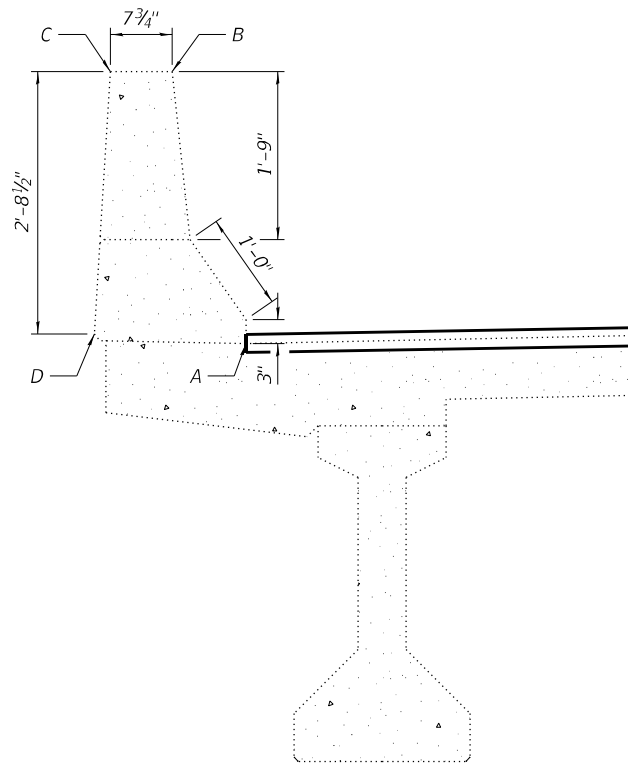
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318		MARSHALL	72	37
(3B-BR, BR-1; (104b)BR-1)BDR, BRR		CONTRACT NO. 68G39		

ILLINOIS FED. AID PROJECT

MODEL: Default
 FILE NAME: P:\2021\121122\110 - IL 29 & IL 17 Bridge Repairs\4 CADD - DWG\4.4 Struc\0620059\0620059-68G39-001-CP&E.dgn
 7/21/2023 1:09:48 PM

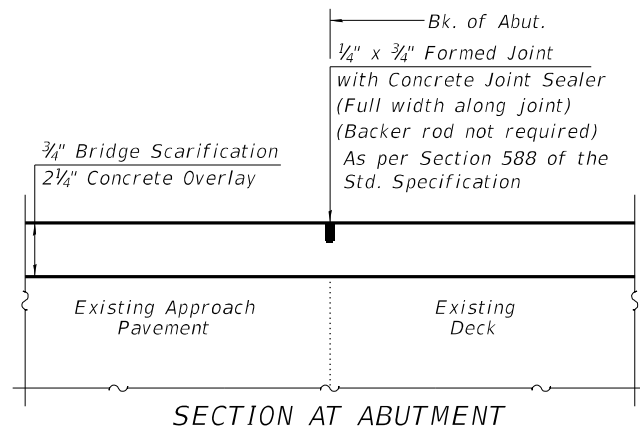


USER NAME =	ckoltveit	DESIGNED -	CAJ	REVISED -	
CHECKED -	CDK	REVISIONS -			
PLOT SCALE =		DRAWN -	CAJ	REVISED -	
PLOT DATE =	7/21/2023	CHECKED -	CDK	REVISED -	

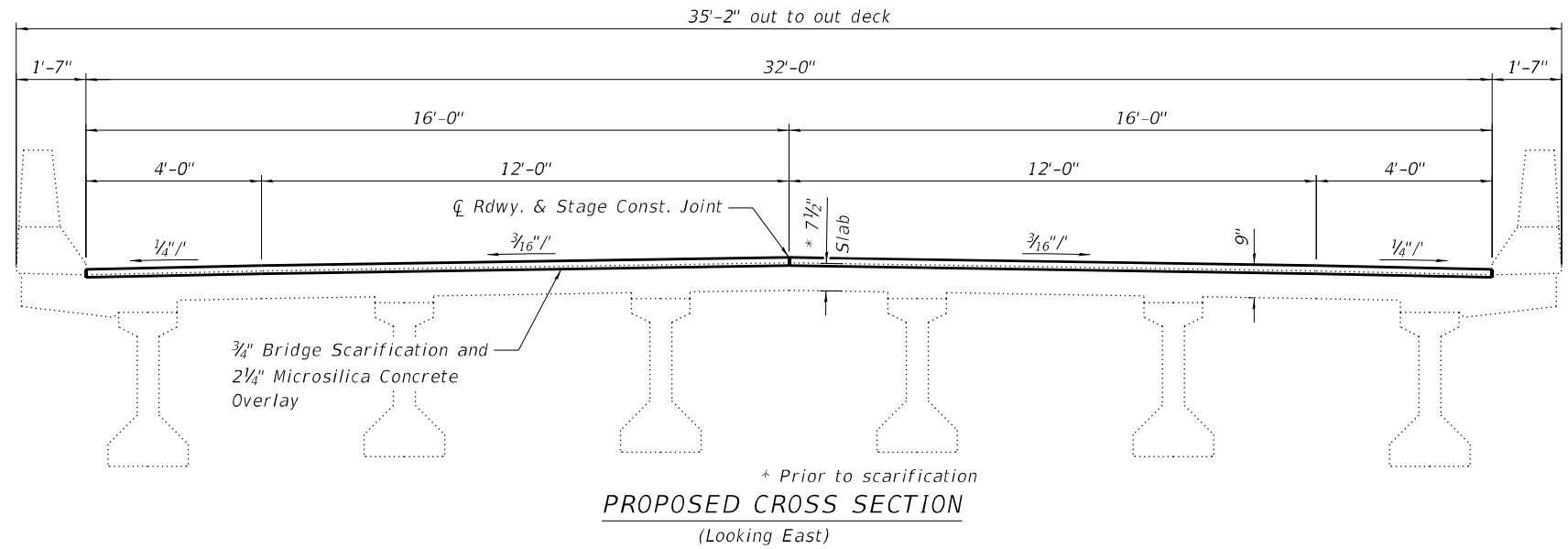


PARAPET SEALING DETAIL

Protective Coat (Special) to cover from Point A through Points B, C, and D of the existing Parapet

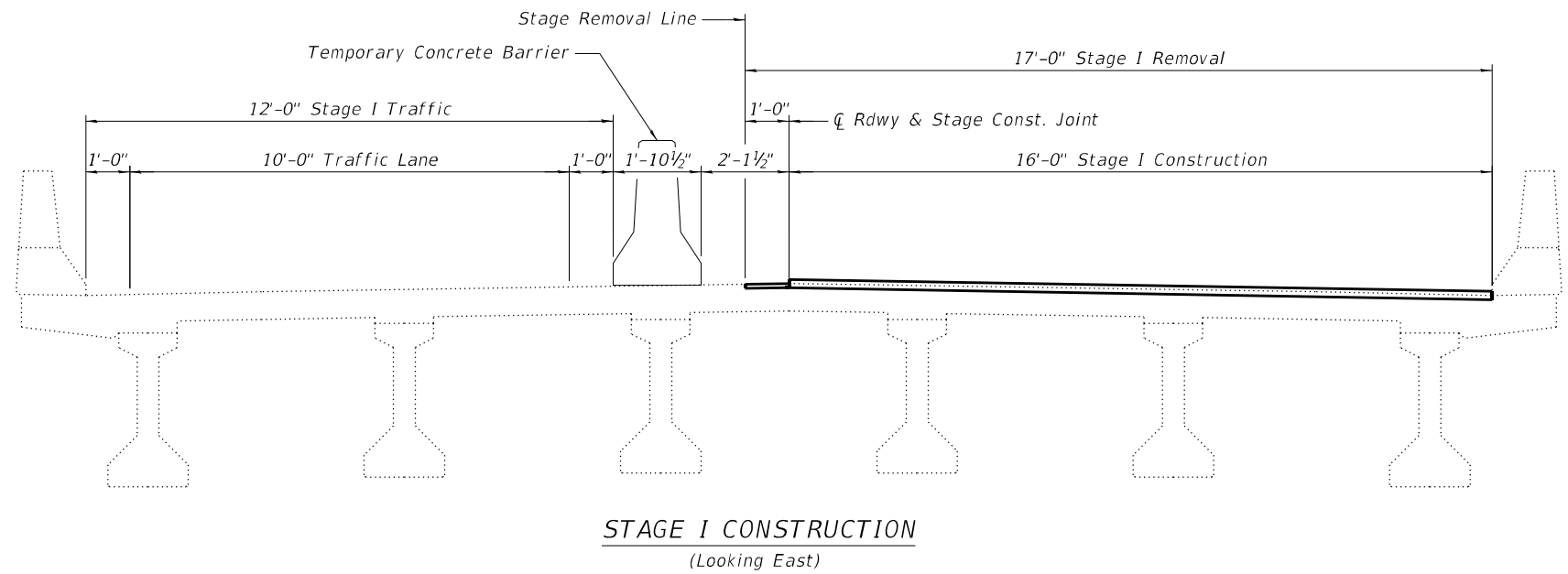


SECTION AT ABUTMENT



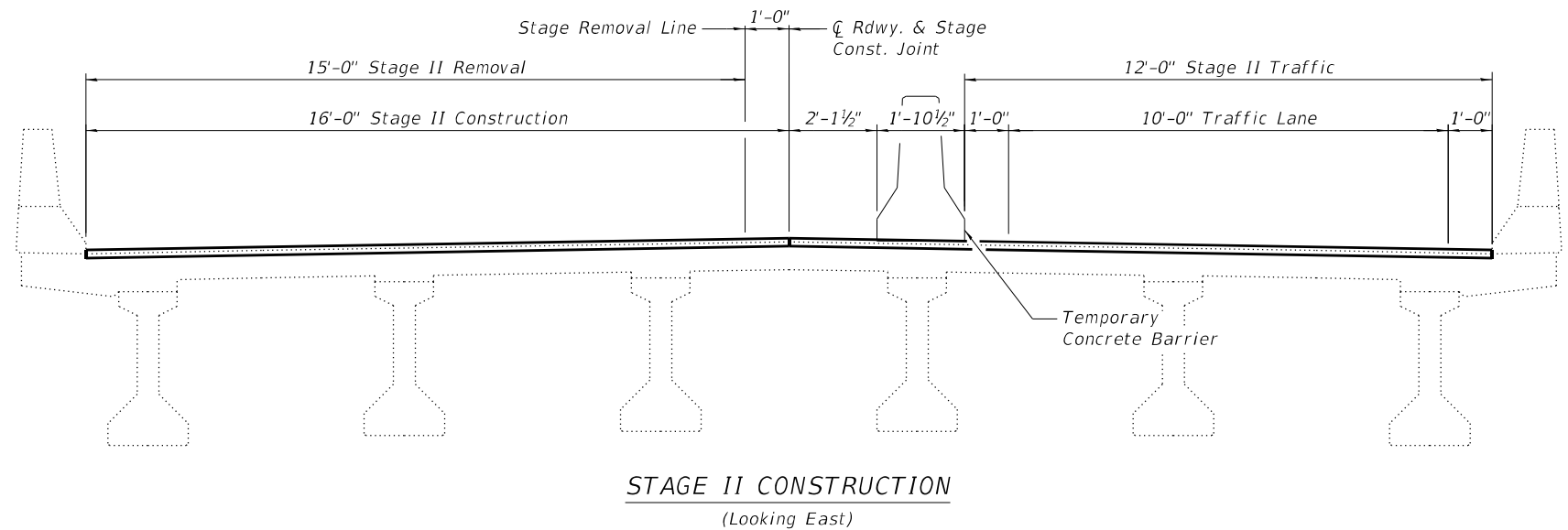
PROPOSED CROSS SECTION

(Looking East)



STAGE I CONSTRUCTION

(Looking East)



STAGE II CONSTRUCTION

(Looking East)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED CROSS SECTION & STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 062 - 0059**

SHEET NO. 2 OF 4 SHEETS

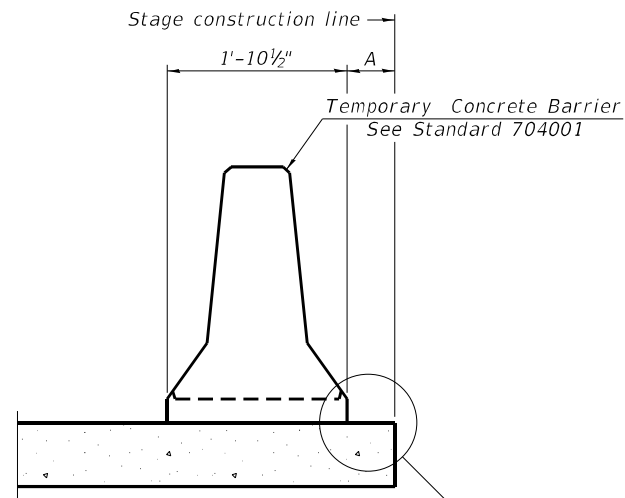
USER NAME =	\$USERS\$	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	CDK	REVISED -	
PLOT DATE =	\$DATES\$	DRAWN -	CAJ	REVISED -	
		CHECKED -	CDK	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	38
*(3B-BR, BR-1;(104b)BR-1)BDR,BRR		CONTRACT NO. 68G39		
		ILLINOIS	FED. AID PROJECT	

MODEL: SMODELNAMES
FILE NAME: \$FILES\$
SDATE\$ \$TIME\$

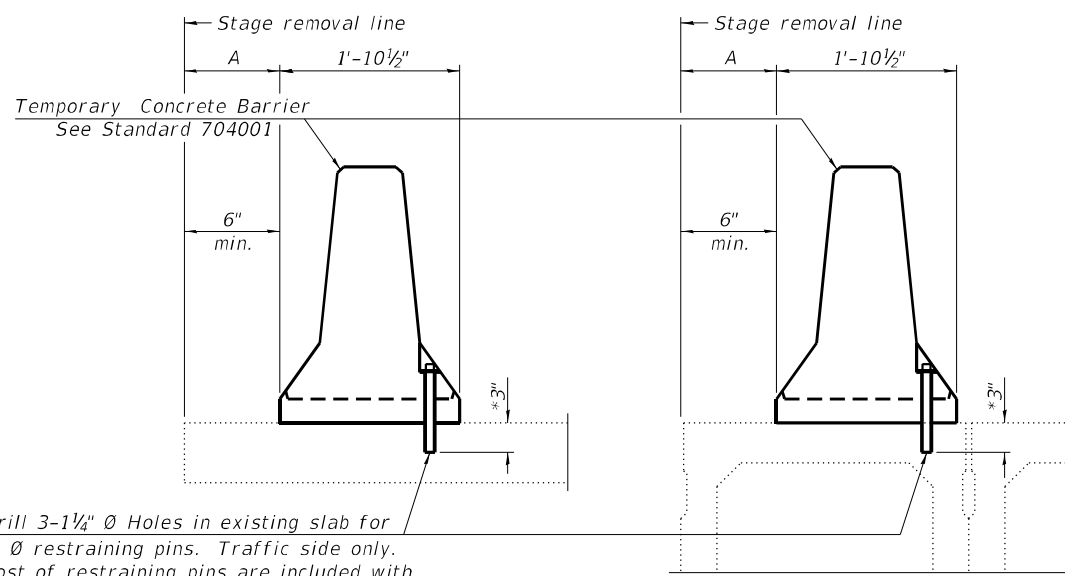
TWM, INC.
www.twm-inc.com
ENGINEERING
GEOSPATIAL SERVICES
IL DESIGN FIRM
LICENSE NO:
184-001220

MODEL: Default
 FILE NAME: O:\PD\GENEXCEL\Studies & Plans\Squad 9 - Arlene\Contract\66G39 - Bridge Preservation - TWM Consultant\Consultant Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn
 8/23/2023 10:52:49 AM



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

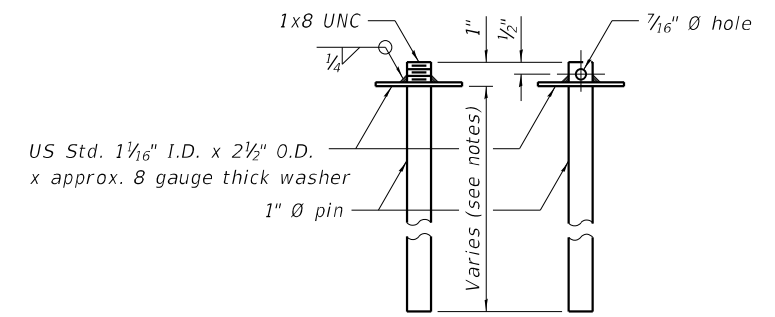


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

EXISTING DECK BEAM

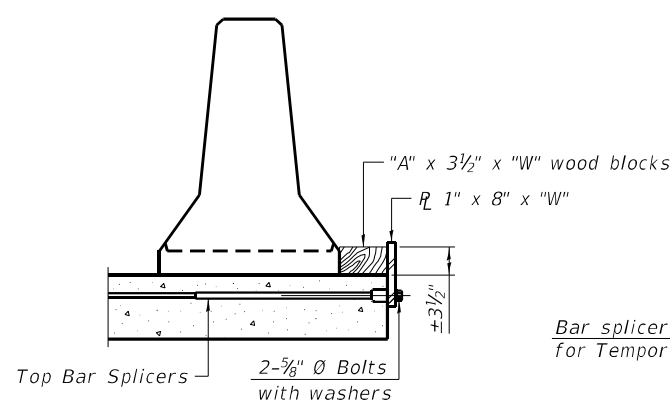
SECTIONS THRU SLAB OR DECK BEAM



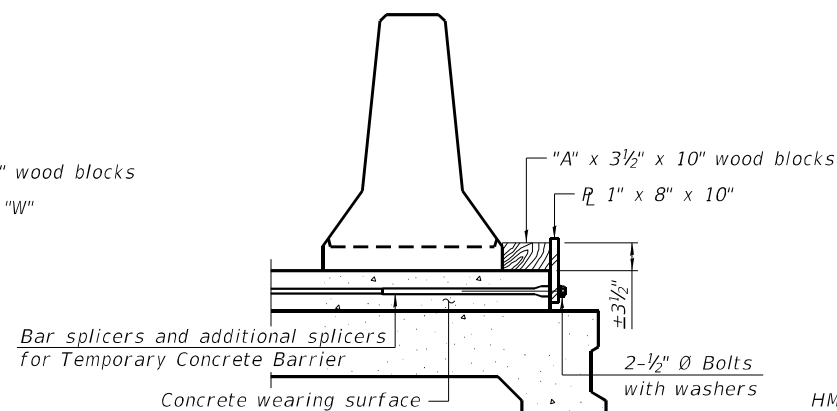
RESTRAINING PIN

US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer
1" Ø pin
Varies (see notes)

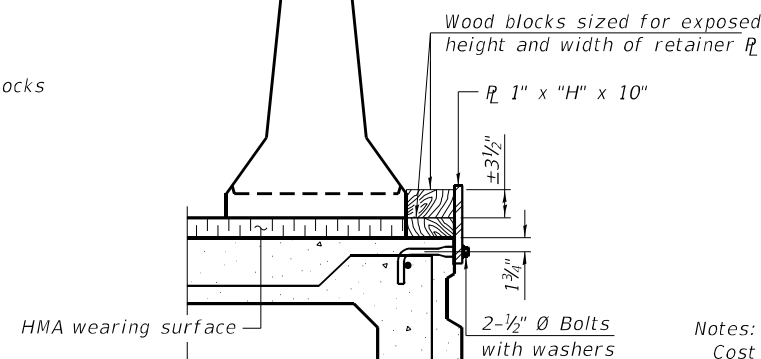
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



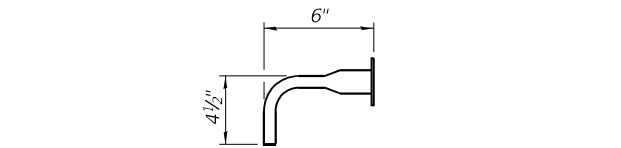
DETAIL I



DETAIL II



DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{c} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

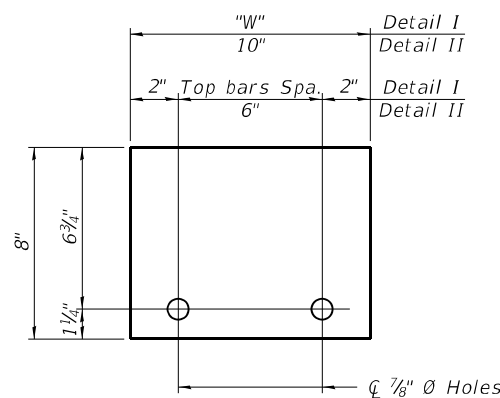
RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

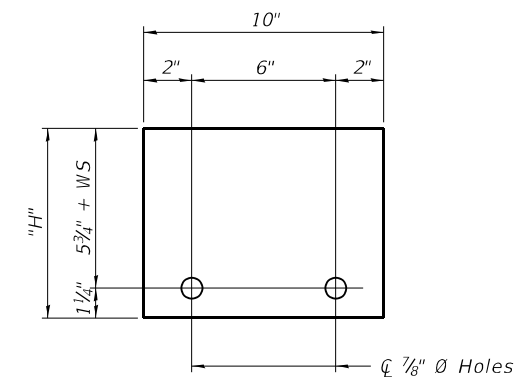
STEEL RETAINER R_L 1" x 8" x "W"

(Detail I and II)



STEEL RETAINER R_L 1" x "H" x 10"

(Detail III)



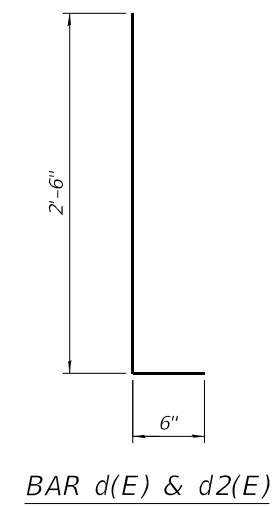
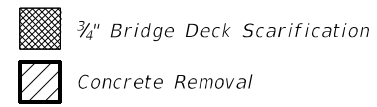
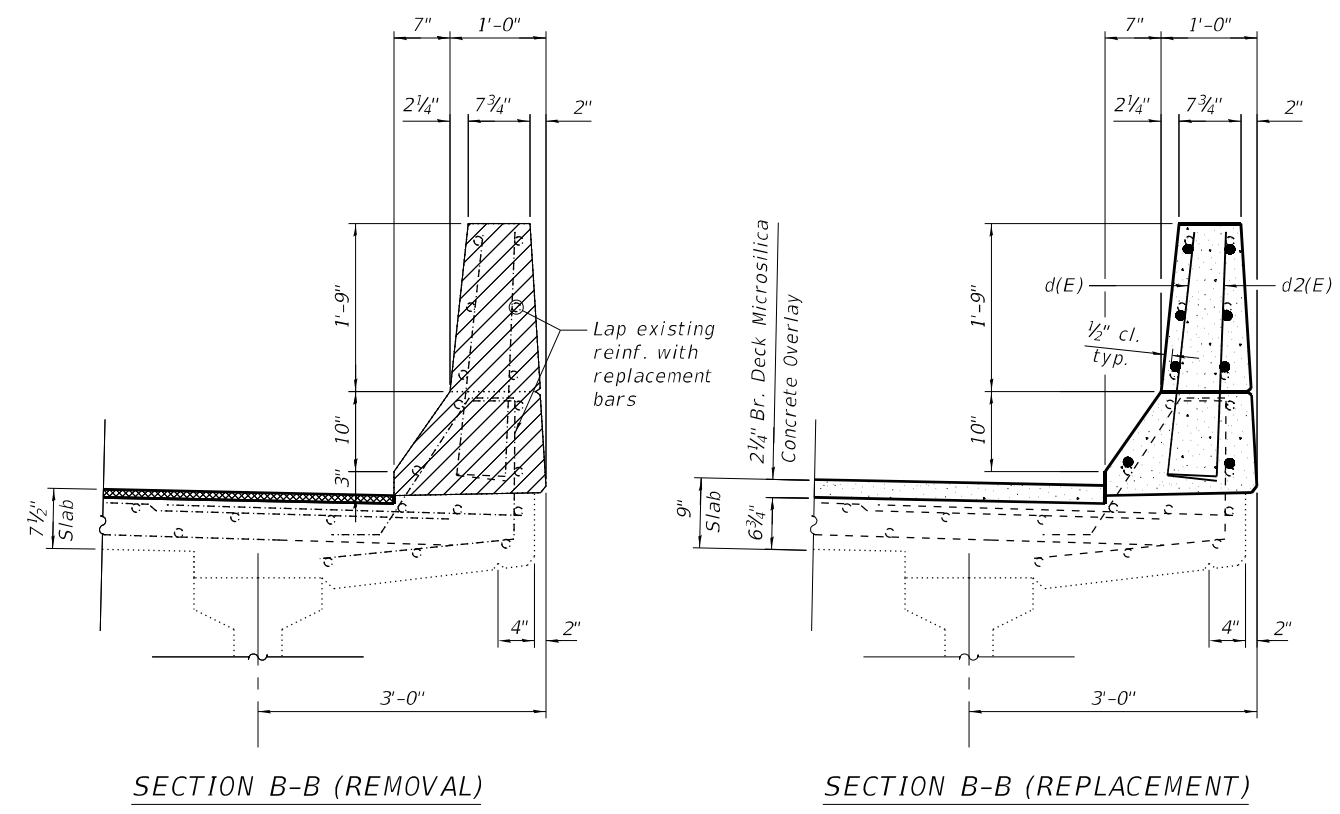
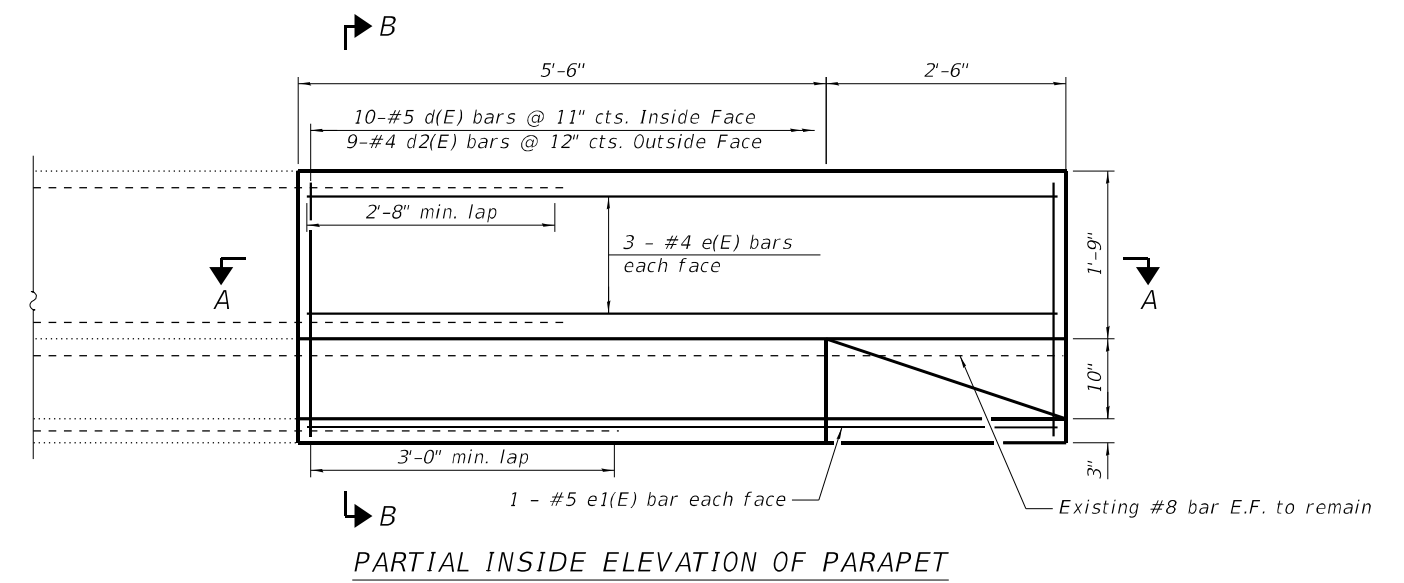
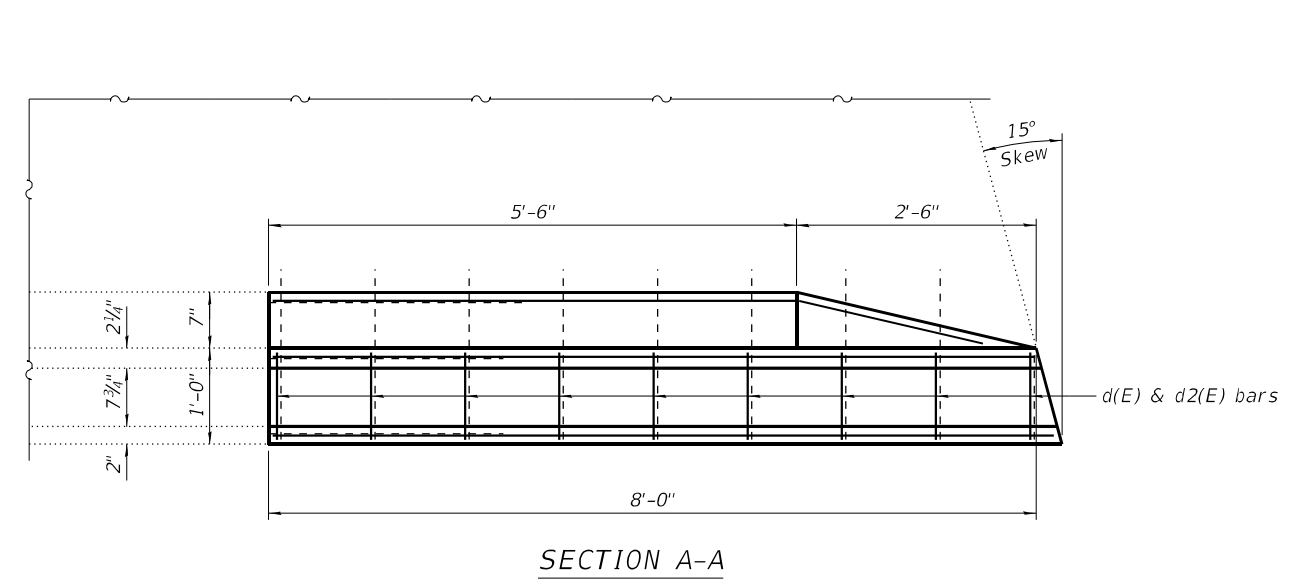
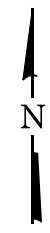
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 062 - 0059**

SHEET NO. 3 OF 4 SHEETS

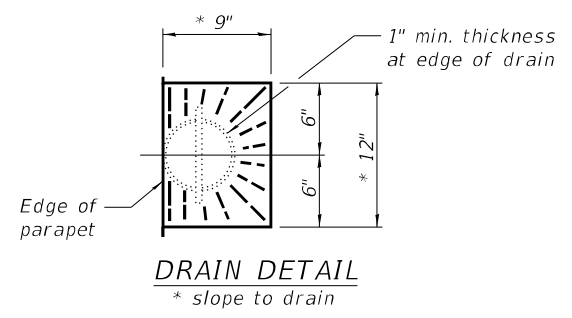
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318		MARSHALL	72	39
(3B-BR-BR-1;(104b)BR-1)BDR.BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: O:\PD\GENEXCELL\Studies & Plans\Squad 9 - Arlene\Contract\66G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn



**SUPERSTRUCTURE
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	10	#5	3'-0"	
d2(E)	9	#4	3'-0"	
e(E)	6	#4	7'-8"	
e1(E)	2	#5	7'-8"	
Concrete Superstructure			Cu. Yd.	0.8
Concrete Removal			Cu. Yd.	0.8
Reinforcement Bars, Epoxy Coated			Pound	100



GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring new concrete, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of existing concrete.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Synthetic fibers are not required for the Bridge Deck Microsilica Concrete Overlay.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Proposed Cross Sections
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5-6 Abutment Joint Removal & Replacement Details
- 7 Preformed Joint Strip Seal
- 8 Bar Splicer Assembly Details

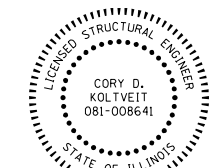
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	11.7	-	11.7
Concrete Superstructure	Cu. Yd.	12.4	-	12.4
Bridge Deck Grooving	Sq. Yd.	744	-	744
Protective Coat	Sq. Yd.	791	-	791
Reinforcement Bars, Epoxy Coated	Pound	1640	-	1640
Bar Splicers	Each	24	-	24
Preformed Joint Strip Seal	Foot	84	-	84
Bridge Deck Scarification, 3/4"	Sq. Yd.	759	-	759
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	759	-	759

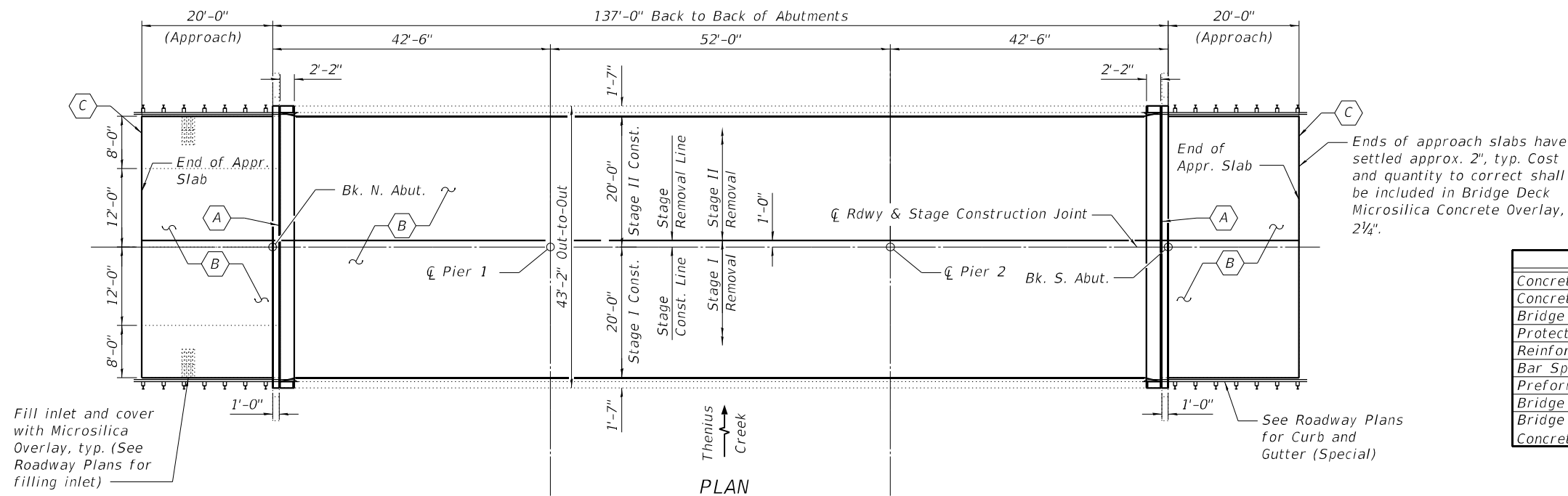
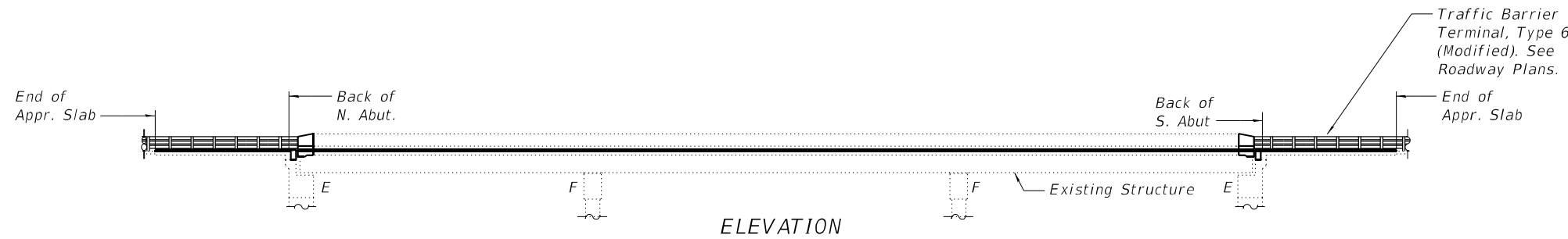
DESIGN STRESSES

FIELD UNITS (New Const.)

f'c = 4,000 psi (Concrete Superstructure)
fy = 60,000 psi (Reinforcement)



Cory D. Koltveit
EXPIRES: 11/30/2024
DATE: 7/21/2023



- (A) - Remove and replace expansion joints at abutments
- (B) - 3/4" Bridge Deck Scarification, 2 1/4" Microsilica Concrete Overlay to Bridge deck and approach slab
- (C) - HMA transitions to roadway. (See Roadway Plans for details)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION
IL ROUTE 29 OVER THENIUS CREEK
STRUCTURE NO. 062 - 0056**

SHEET NO. 1 OF 8 SHEETS

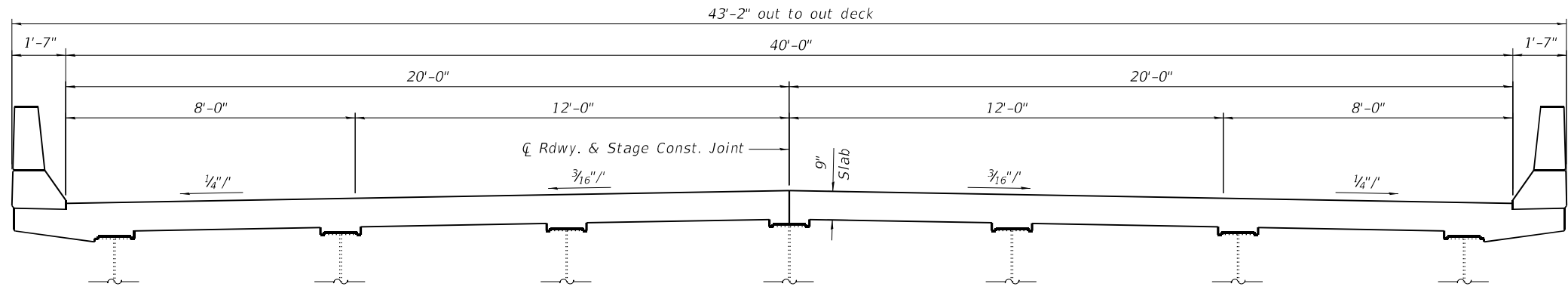
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318		MARSHALL	72	41
+ (3B-BR, BR-1; 104b) BR-1) BDR, BRR		CONTRACT NO. 68G39		
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\2021\121122\10 - IL 29 & IL 17 Bridge Repairs\4 CADD - DWG\4.4 Struct\0620056-68G39-001-CP&E.dgn
7/20/2023 3:06:56 PM

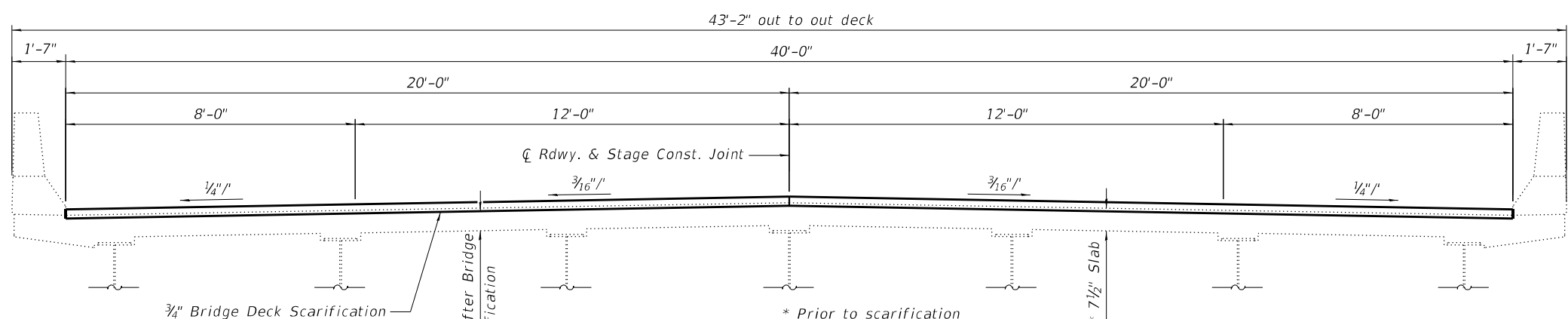


USER NAME =	ckoltveit	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	ALN/CDK	REVISED -	
PLOT DATE =	7/20/2023	DRAWN -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	

MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn



CROSS SECTION AT ABUTMENTS
 (Looking South)



CROSS SECTION AT MID-SPAN
 (Looking South)

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
CHECKED -	CDK/ALN	REVISIONS		REVISED -	
PLOT SCALE =		DRAWN -	CAJ	REVISED -	
PLOT DATE =	8/23/2023	CHECKED -	CDK/ALN	REVISED -	

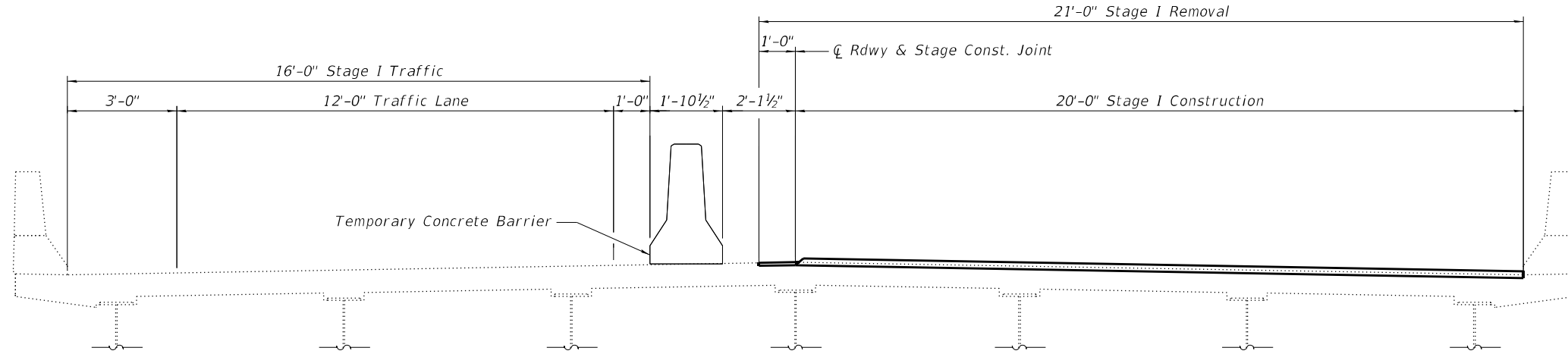
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
STRUCTURE NO. 062 - 0056

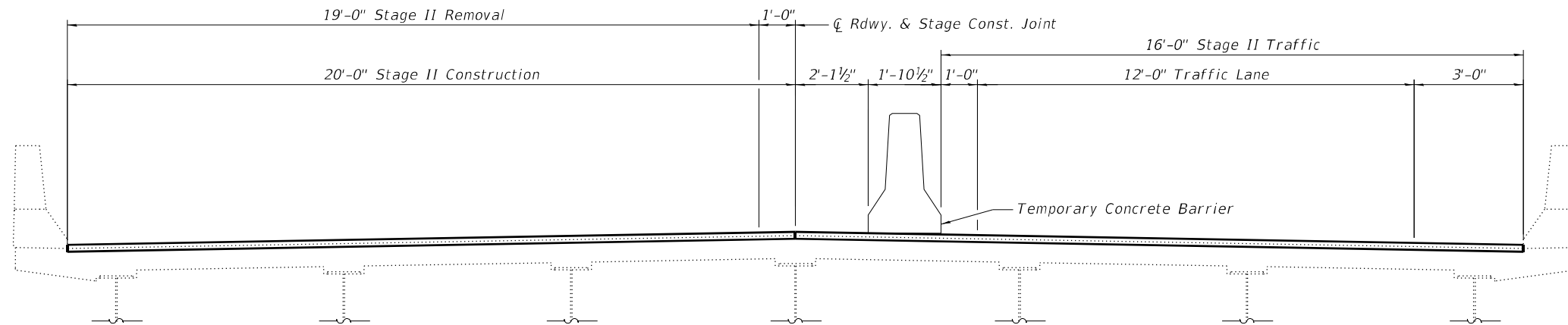
SHEET NO. 2 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	42
*(3B-BR, BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

MODEL: Default
 FILE NAME: O:\PD\GEN\XCELL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn



STAGE I CONSTRUCTION
 (Looking South - Shown at Mid-span)



STAGE II CONSTRUCTION
 (Looking South - Shown at Mid-span)

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
CHECKED -	ALN/CDK	REVISIONS -		REVISIONS -	
PLOT SCALE =		DRAWN -	CAJ	REVISED -	
PLOT DATE =	8/23/2023	CHECKED -	ALN/CDK	REVISED -	

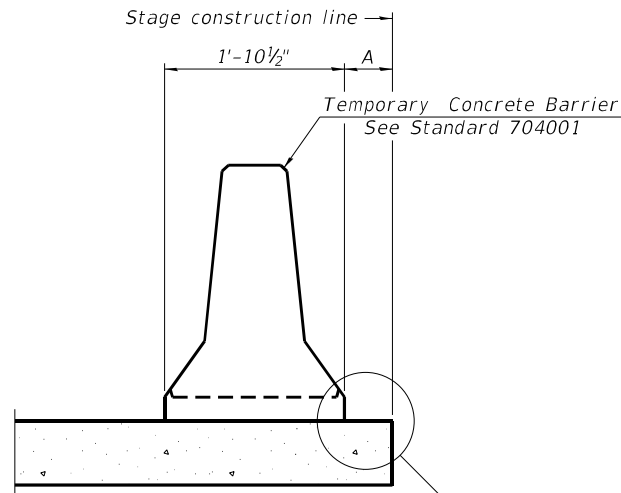
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 062 - 0056

SHEET NO. 3 OF 8 SHEETS

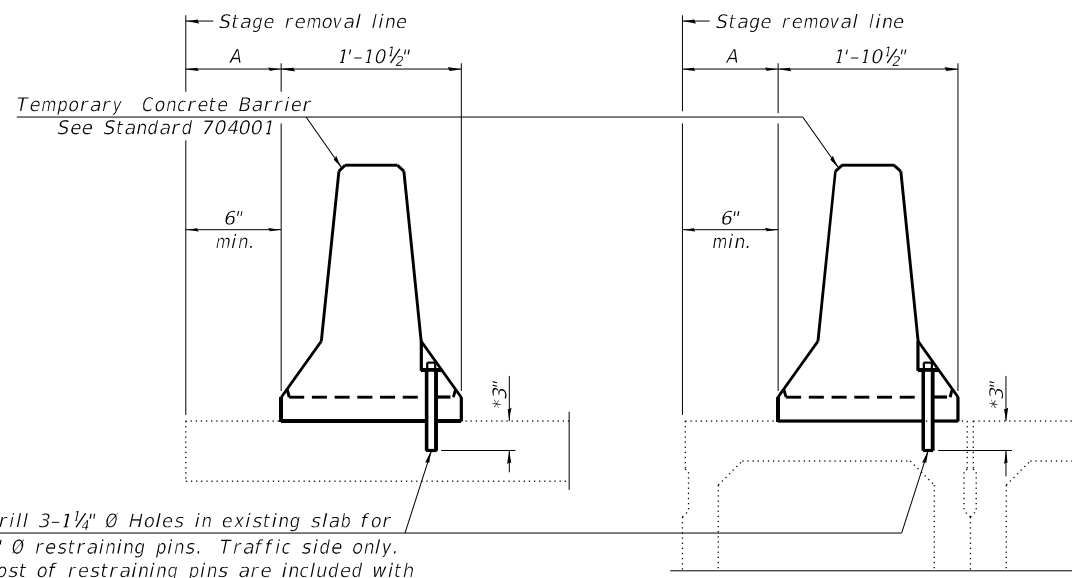
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	43
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: O:\PD\GENEXCEL\Studies & Plans\Squad 9 - Arlene\Contract\66G39 - Bridge - Preservation - TWM Consultant\Consultant - Final - Submittal - 7-27-23\DOT - Corrections\CADD - Files\Structures\Structure - sheets - 68G39.dgn
 8/23/2023 10:52:52 AM



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

NEW SLAB OR NEW DECK BEAM



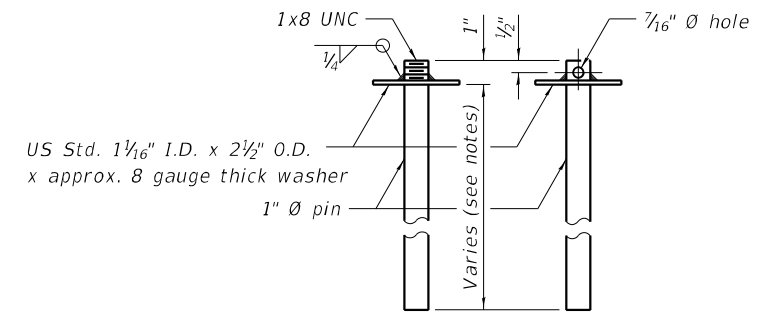
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

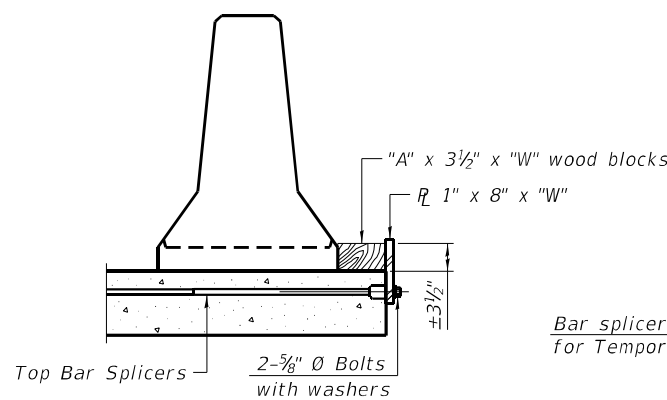
EXISTING DECK BEAM

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

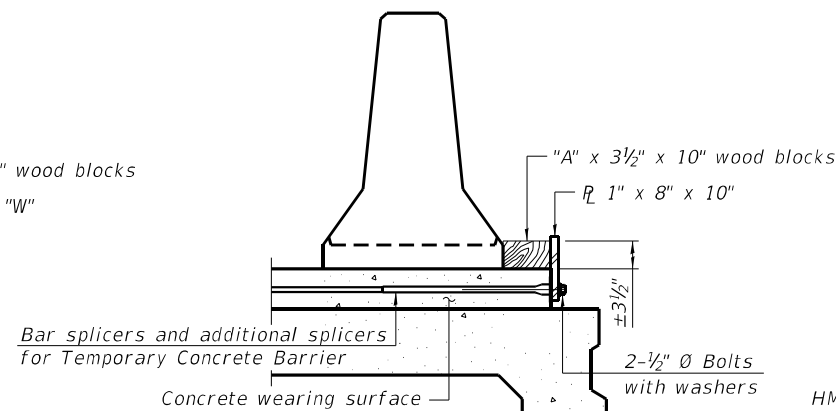
SECTIONS THRU SLAB OR DECK BEAM



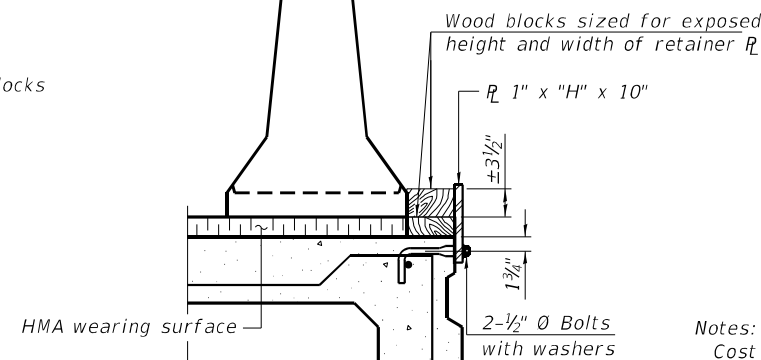
RESTRAINING PIN



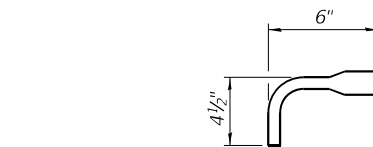
DETAIL I



DETAIL II



DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III

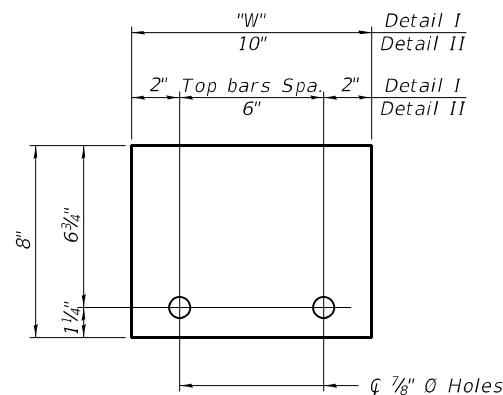
Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
- For deck beam applications the minimum required 'A' distance is 6' to accommodate the shear key clamping device.

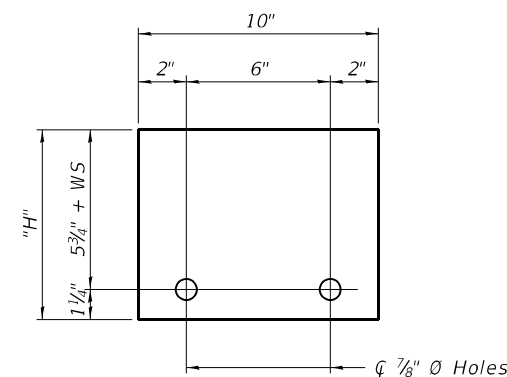
Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021



USER NAME = \$USERS\$
 PLOT SCALE =
 PLOT DATE = 8/23/2023

DESIGNED - CAJ
 CHECKED - ALN/CDK
 DRAWN - CAJ
 CHECKED - ALN/CDK

REVISED -
 REVISED -
 REVISED -
 REVISED -

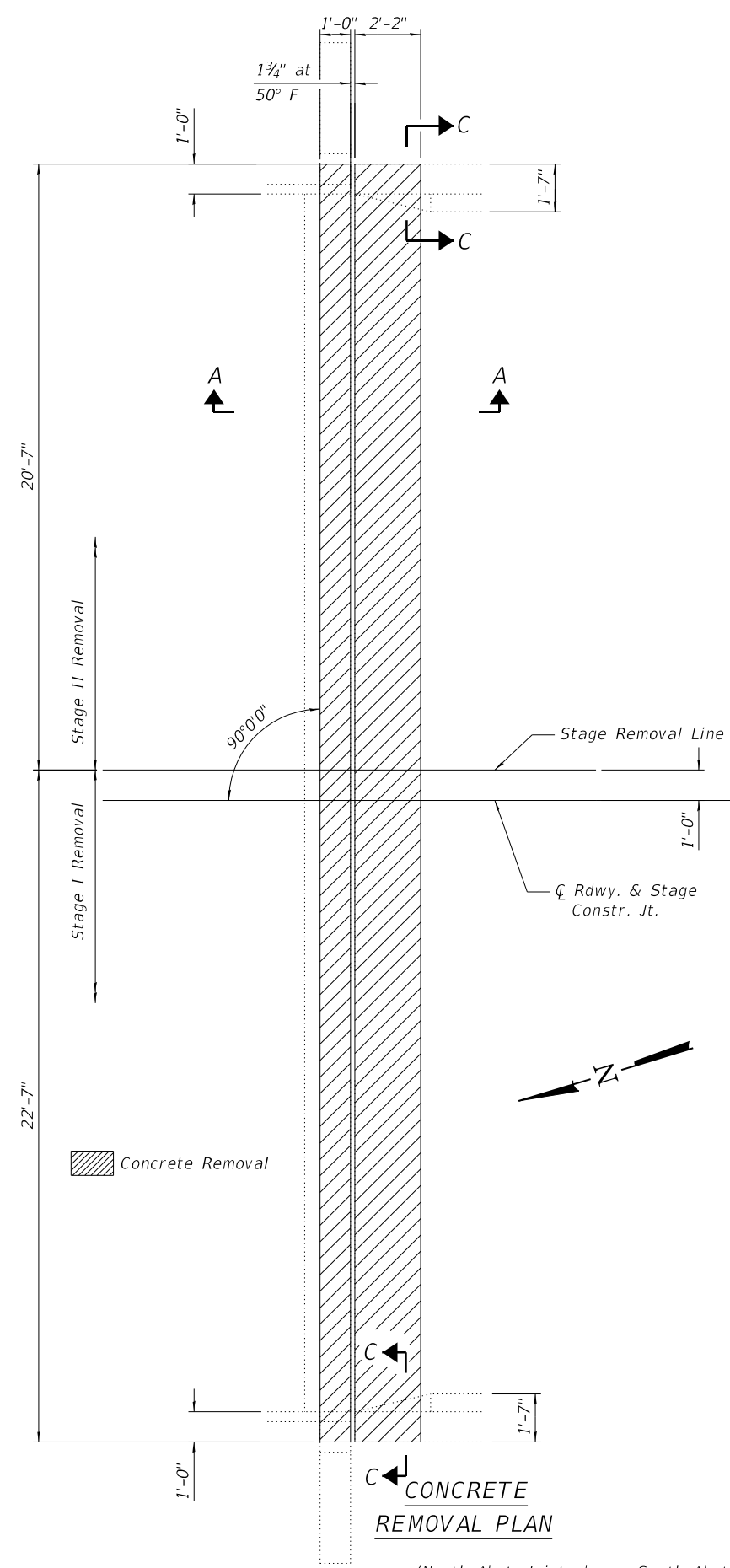
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 062 - 0056

SHEET NO. 4 OF 8 SHEETS

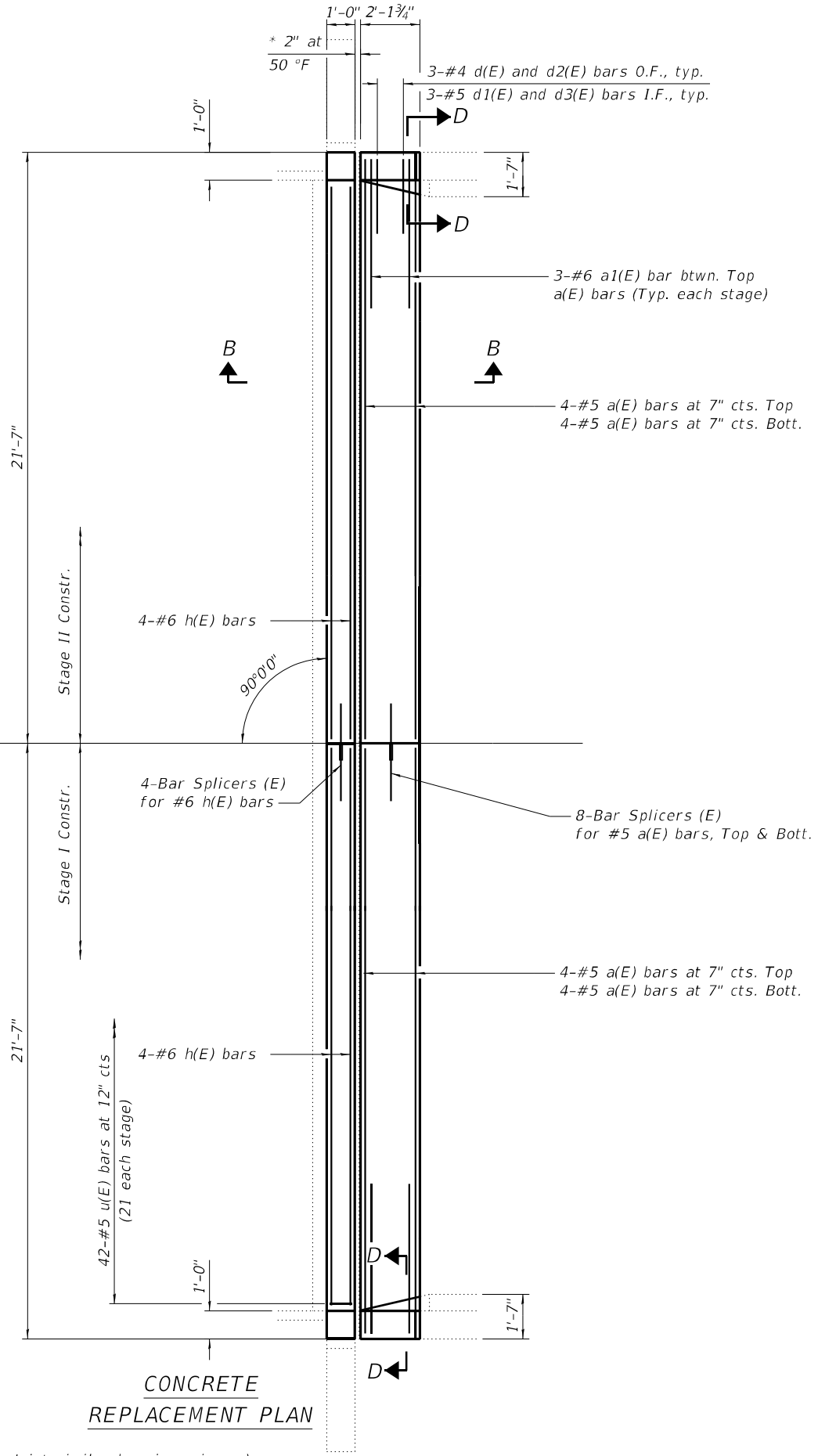
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	44
*(3B-BR, BR-1, (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn

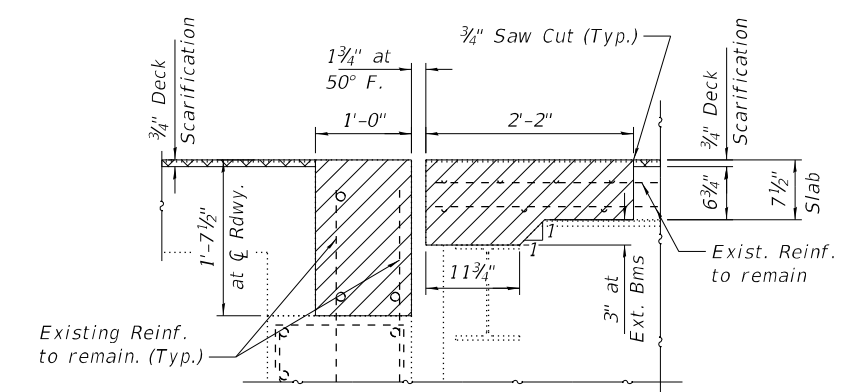


**CONCRETE
REMOVAL PLAN**

(North Abut. Joint shown. South Abut. Joint similar by mirror image)
 See Sheet 6 of 8 for Sections C-C and D-D.

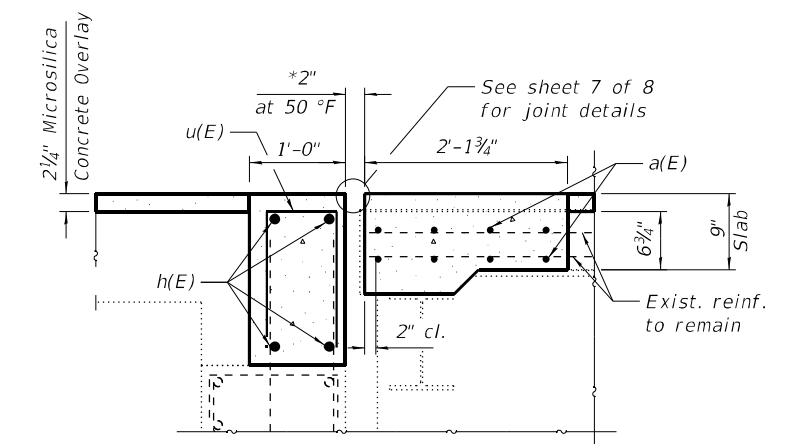


**CONCRETE
REPLACEMENT PLAN**



SECTION A-A

▨ 3/4" Deck Scarification ▨ Concrete Removal



SECTION B-B

* Dimension showing concrete opening.
 For joint opening see sheet 7 of 8.

TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME =	SUSERS\$
PLOT SCALE =	
PLOT DATE =	8/23/2023

DESIGNED -	CAJ
CHECKED -	ALN/CDK
DRAWN -	CAJ
CHECKED -	ALN/CDK

REVISED -	
REVISED -	
REVISED -	
REVISED -	

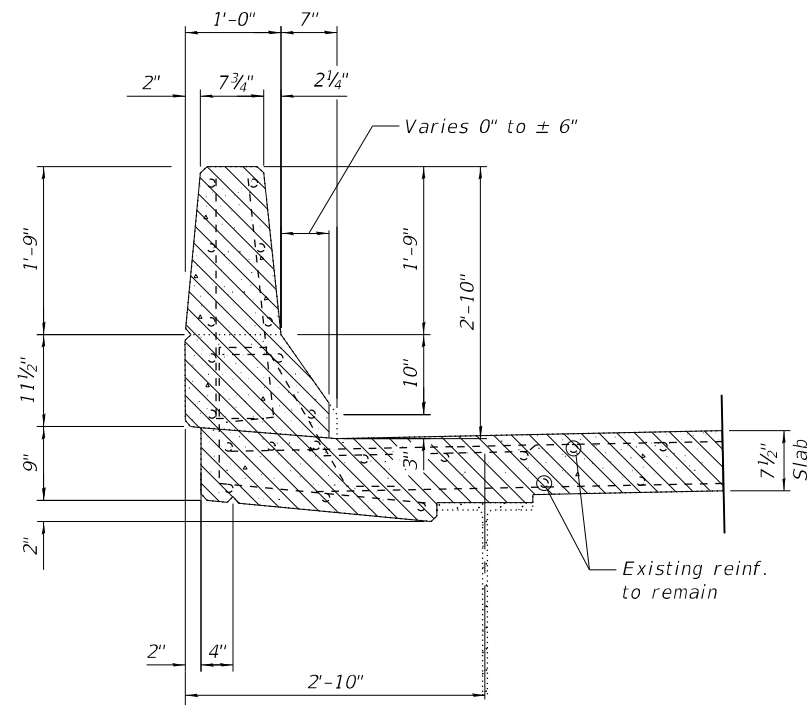
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO. 062 - 0056**

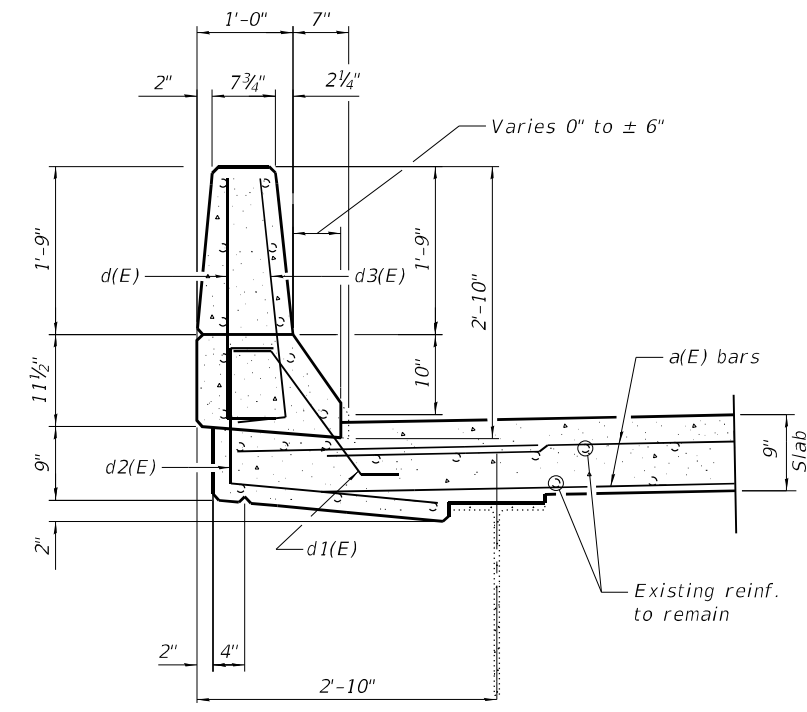
SHEET NO. 5 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318		MARSHALL	72	45
*(3B-BR, BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
		ILLINOIS	FED. AID PROJECT	

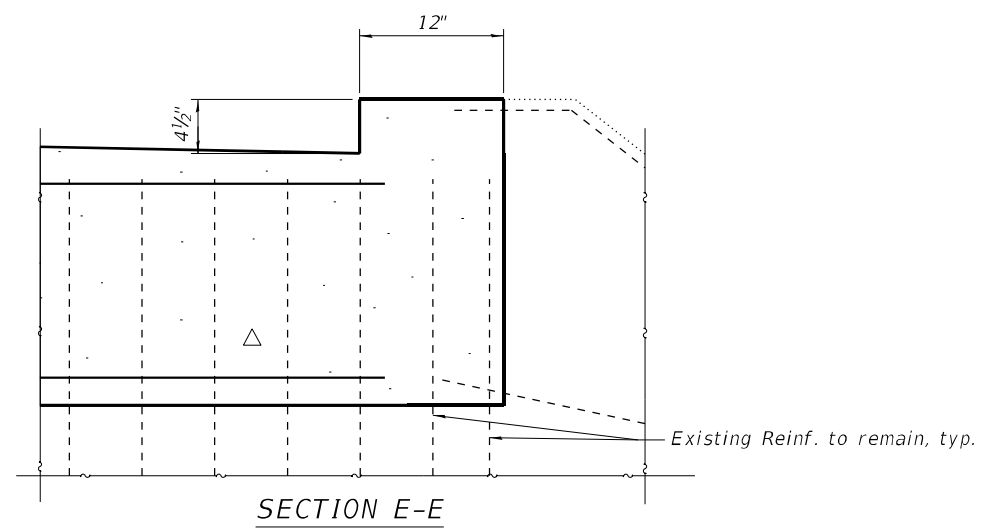
MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - A\Tene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn
 8/23/2023 10:52:53 AM



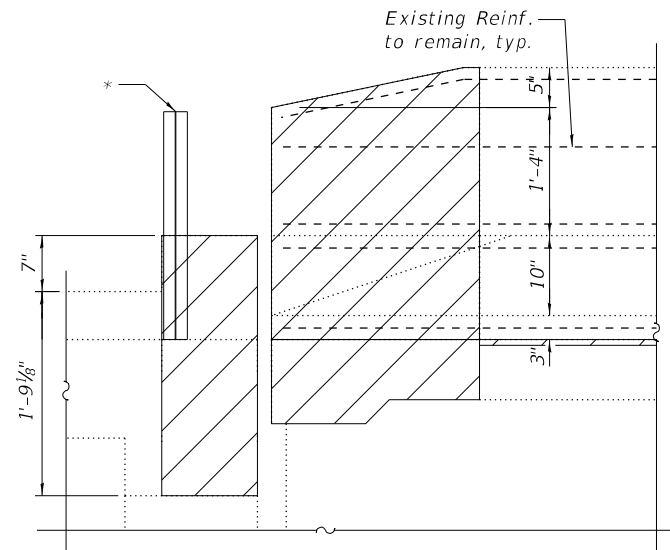
SECTION C-C



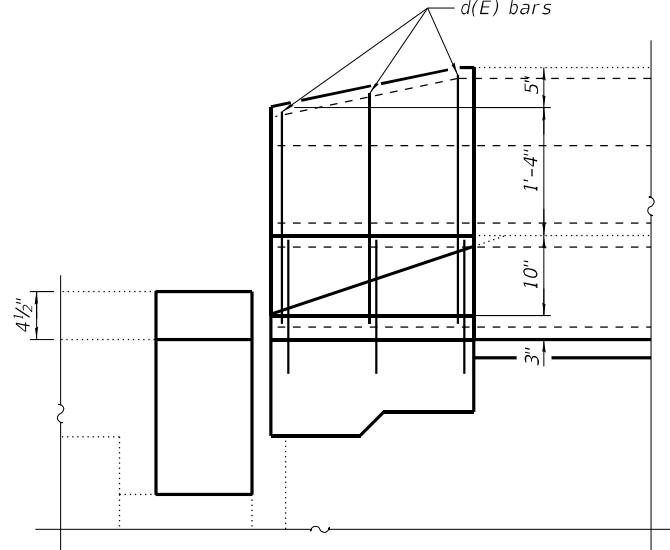
SECTION D-D



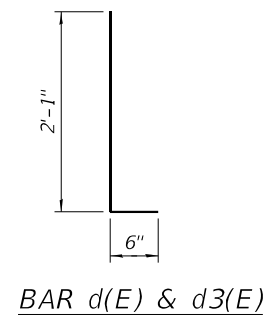
SECTION E-E



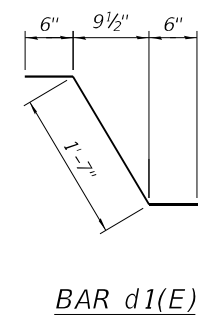
ELEVATION OF EXISTING PARAPET REMOVAL



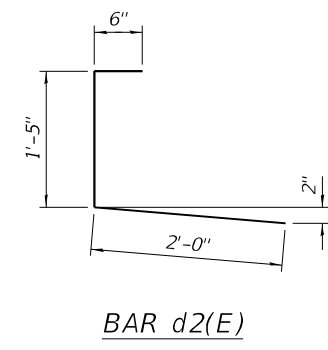
ELEVATION OF PROPOSED PARAPET



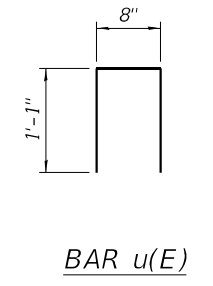
BAR d(E) & d3(E)



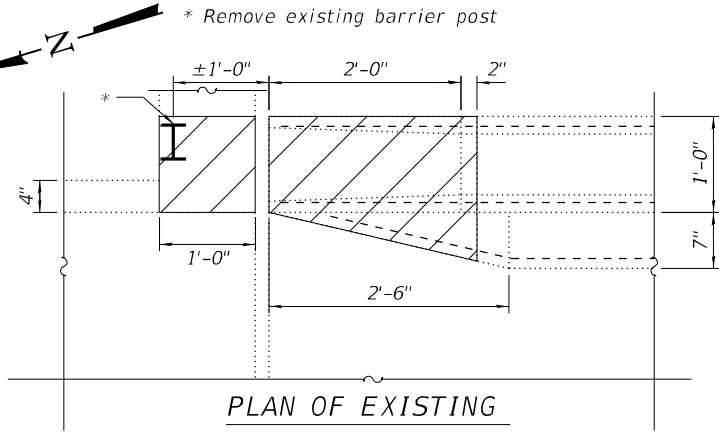
BAR d1(E)



BAR d2(E)

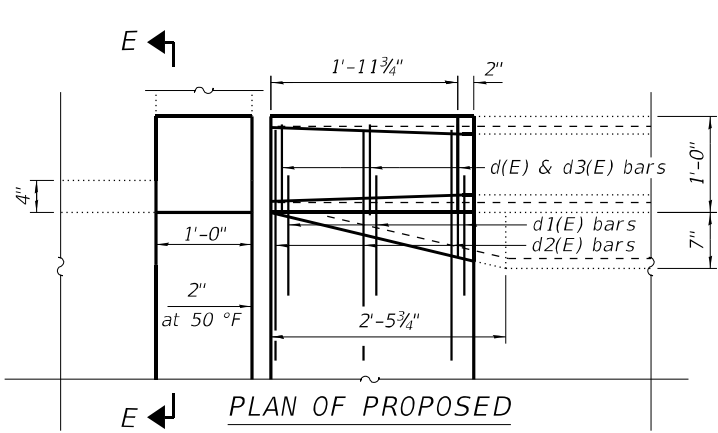


BAR u(E)



PLAN OF EXISTING PARAPET REMOVAL

(Showing NE Corner - Others Similar)



PLAN OF PROPOSED PARAPET

(Showing NE Corner - Others Similar)

**SUPERSTRUCTURE
BILL OF MATERIAL
(2 ABUTMENTS)**

Bar	No.	Size	Length	Shape
a(E)	32	#5	20'-9"	—
a1(E)	12	#6	4'-0"	—
d(E)	12	#4	2'-7"	L
d1(E)	12	#5	2'-7"	~
d2(E)	12	#4	3'-11"	~
d3(E)	12	#5	2'-7"	L
h(E)	16	#6	21'-3"	—
u(E)	84	#5	2'-10"	U
Concrete Removal			Cu. Yd.	11.7
Concrete Superstructure			Cu. Yd.	12.4
Reinforcement Bars, Epoxy Coated			Pound	1640

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	ALN/CDK	REVISED -	
PLOT DATE =	8/23/2023	DRAWN -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	

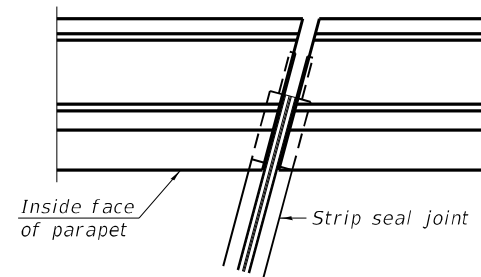
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO. 062 - 0056

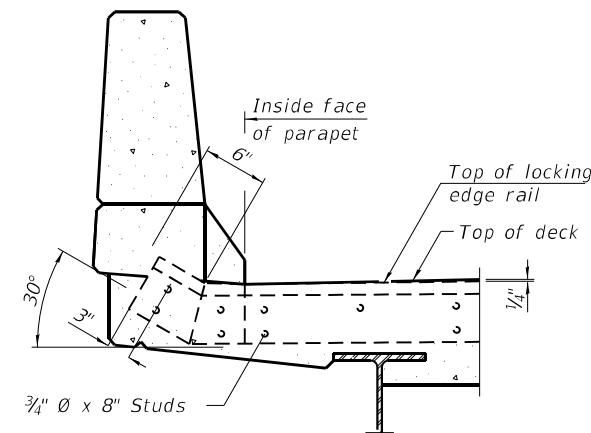
SHEET NO. 6 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	46
*(3B-BR, BR-1, (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

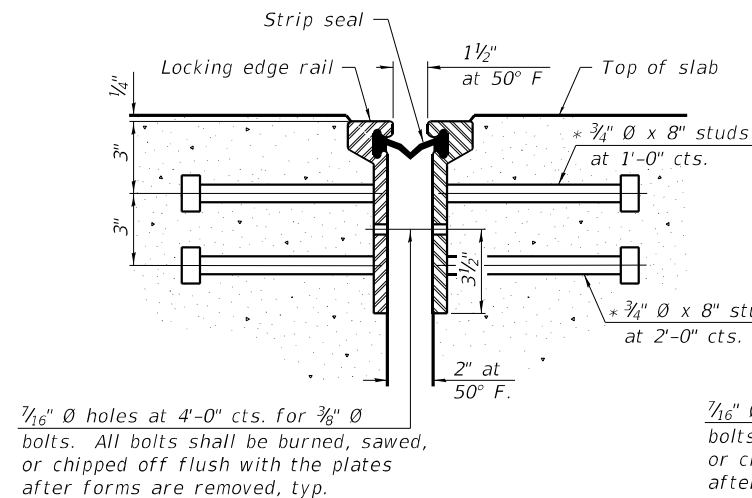
MODEL: Default
 FILE NAME: O:\PD\GENEXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn



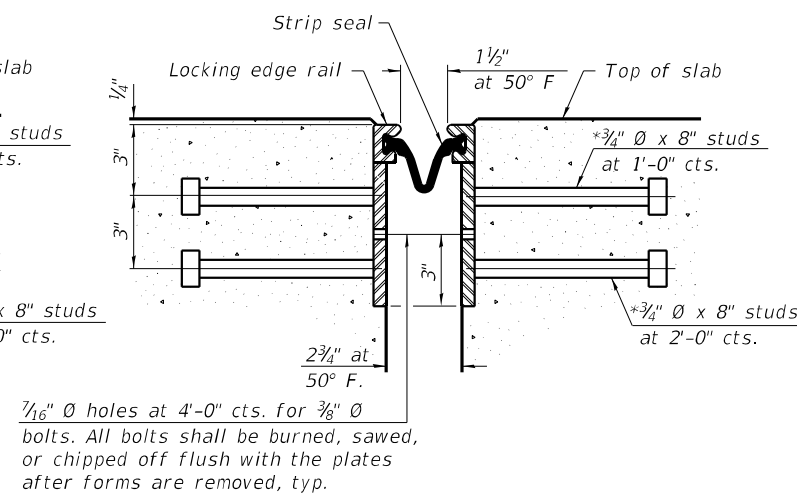
PLAN
 (For skews ≤ 30°)



PARAPET ELEVATION AT ABUTMENTS

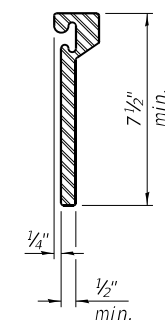


SECTION THRU ROLLED RAIL JOINT

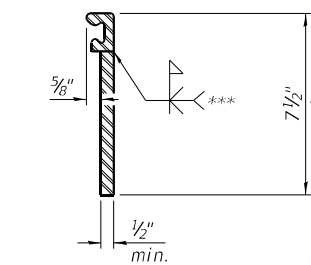


SECTION THRU WELDED RAIL JOINT

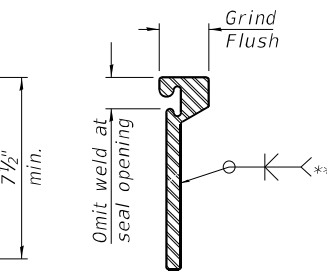
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
 Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 The manufacturer's recommended installation methods shall be followed.
 The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	84

TWM, INC.
 ENGINEERING
 GEOSPATIAL SERVICES
 IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	ALN/CDK	REVISED -	
PLOT DATE =	8/23/2023	DRAWN -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	

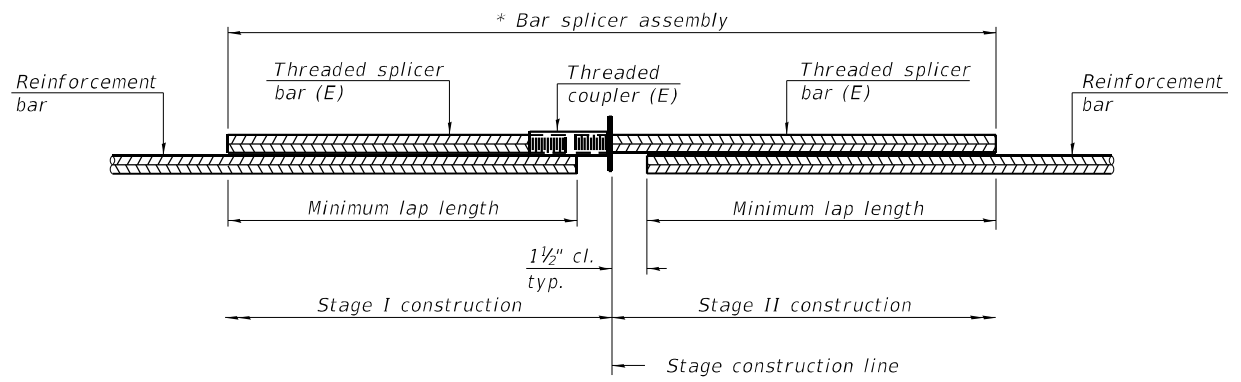
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL
 STRUCTURE NO. 062 - 0056**

SHEET NO. 7 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	47
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR		CONTRACT NO. 68G39		
ILLINOIS		FED. AID PROJECT		

MODEL: Default; FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contractor\Consultant Final Submittal 7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn

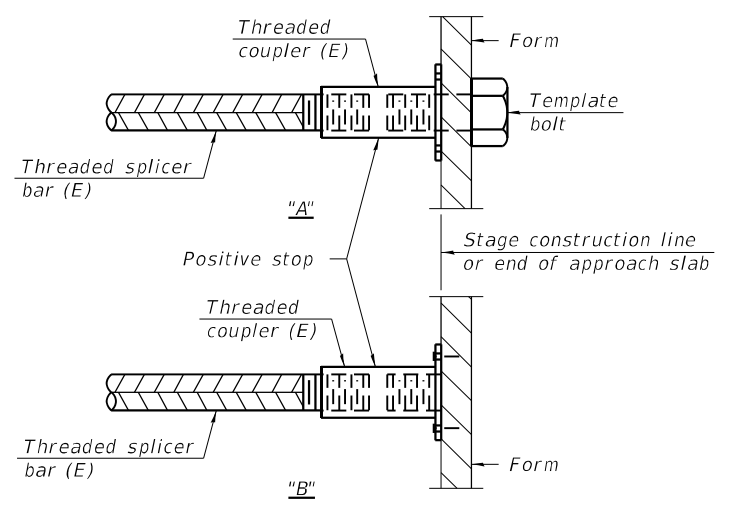


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

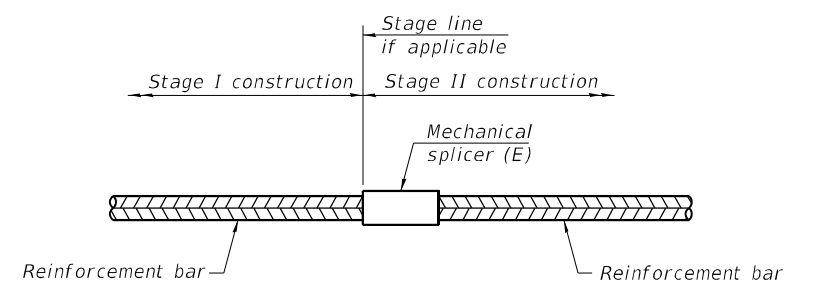
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	16	3'-6"
Hatch Block	#6	8	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020



USER NAME =	SUSERS\$	DESIGNED - CAJ	REVISED -
CHECKED -	ALN/CDK	REVISIONS -	
PLOT SCALE =		DRAWN - CAJ	REVISED -
PLOT DATE =	8/23/2023	CHECKED - ALN/CDK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 062 - 0056

SHEET NO. 8 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	48
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated. Prior to pouring new concrete, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of existing concrete.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The N. Abutment joint opening shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Synthetic fibers are not required for the Bridge Deck Microsilica Concrete Overlay.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Proposed Cross Sections
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5-6 Abutment Joint Removal & Replacement Details
- 7-8 Preformed Joint Strip Seal - Sidewalk
- 9 Bar Splicer Assembly Details

DESIGN STRESSES

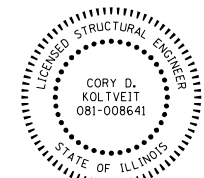
FIELD UNITS (New Const.)

$f'_c = 4,000$ psi (Concrete Superstructure)
 $f_y = 60,000$ psi (Reinforcement)

TOTAL BILL OF MATERIAL

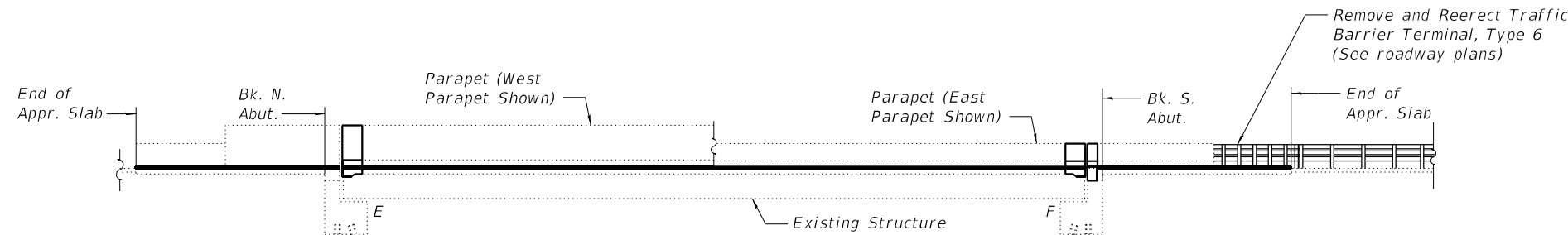
ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	16.7	-	16.7
Concrete Superstructure	Cu. Yd.	18.2	-	18.2
Bridge Deck Grooving	Sq. Yd.	722	-	722
Protective Coat	Sq. Yd.	761	-	761
Reinforcement Bars, Epoxy Coated	Pound	2520	-	2520
Bar Splicers	Each	24	-	24
Preformed Joint Strip Seal	Foot	128	-	128
Bridge Deck Scarification, 3/4"	Sq. Yd.	714	-	714
Bridge Deck Microsilica Concrete Overlay, 2 1/4"	Sq. Yd.	714	-	714

*Protective Coat shall be applied to all new concrete superstructure and all new concrete overlays as specified in Article 503.19 of the Standard Specifications

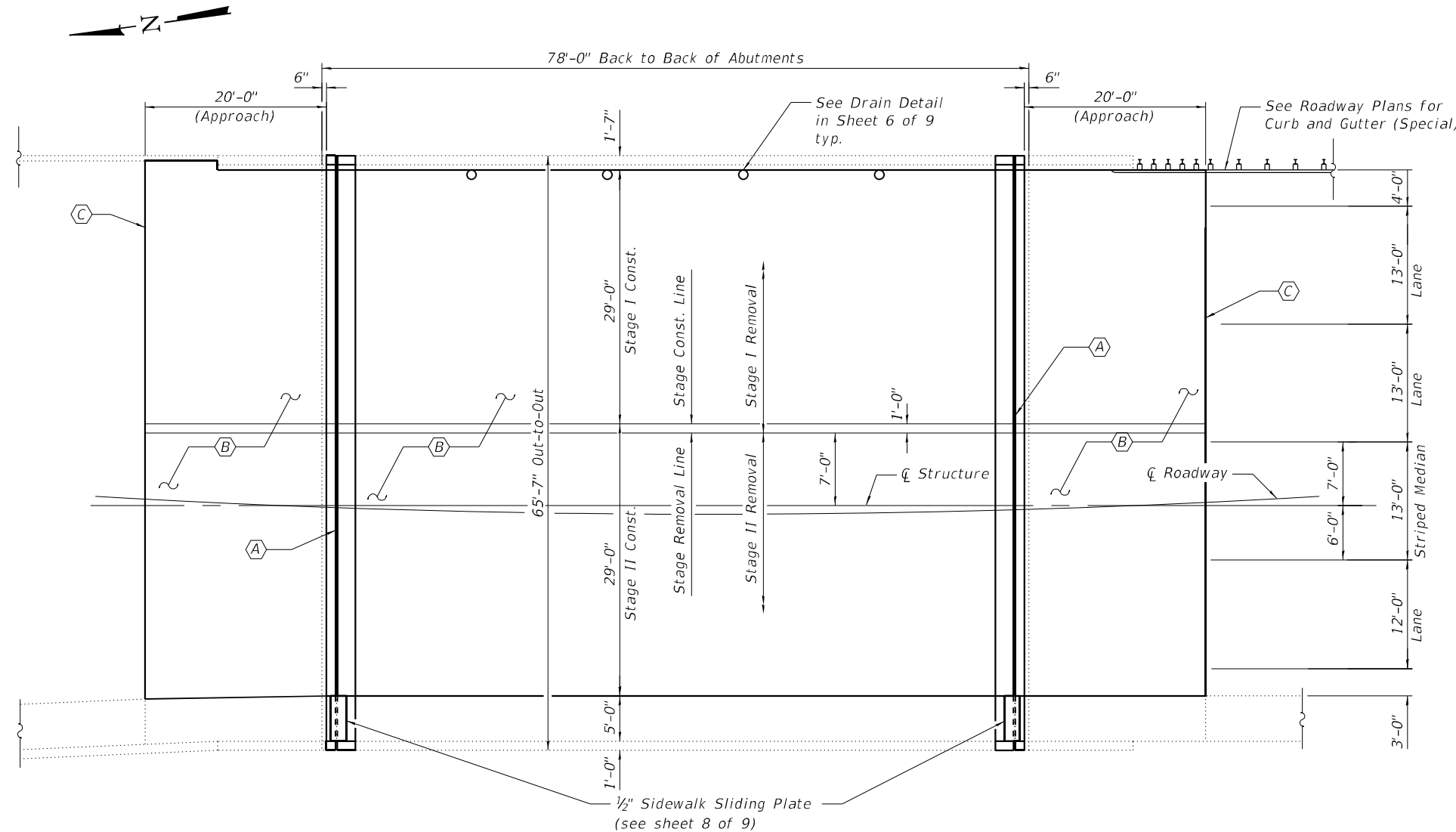


Cory D. Koltveit

EXPIRES: 11/30/2024
 DATE: 7/21/2023



ELEVATION



PLAN

- (A) - Remove and replace expansion joints at abutments
- (B) - 3/4" Bridge Deck Scarification, 2 1/4" Microsilica Concrete Overlay to Bridge deck and approach slabs
- (C) - HMA transitions to roadway (See Roadway Plans for details)

MODEL: Default
 FILE NAME: P:\2021\121122\10 - IL 29 & IL 17 Bridge Repairs\4 CADD - DWG\4.4 Struc\0620057\0620057-68639-001- GPs&E.dgn
 7/20/2023 3:17:39 PM



USER NAME =	ckoltveit	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	ALN/CDK	REVISED -	
PLOT DATE =	7/20/2023	DRAWN -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	

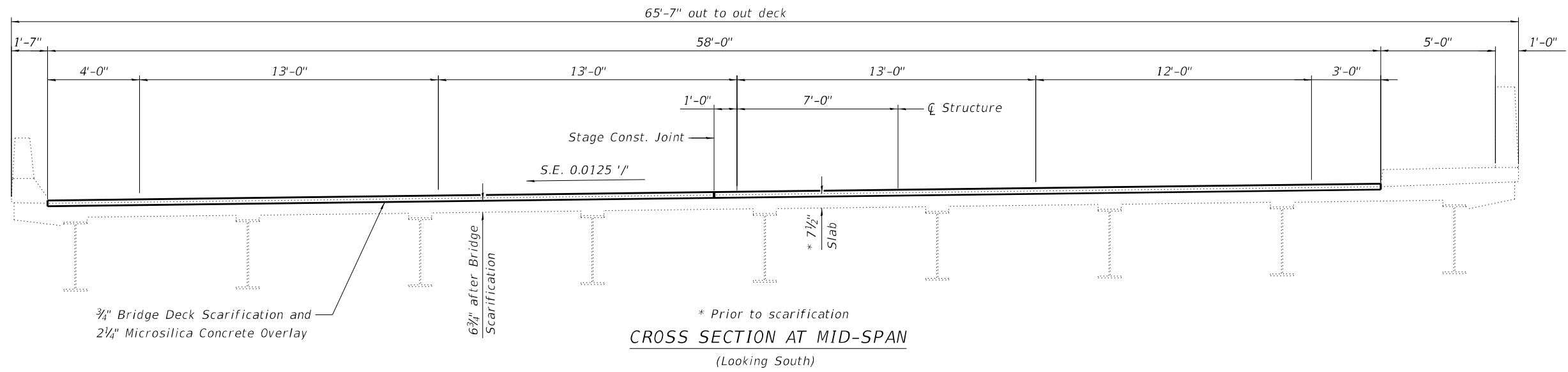
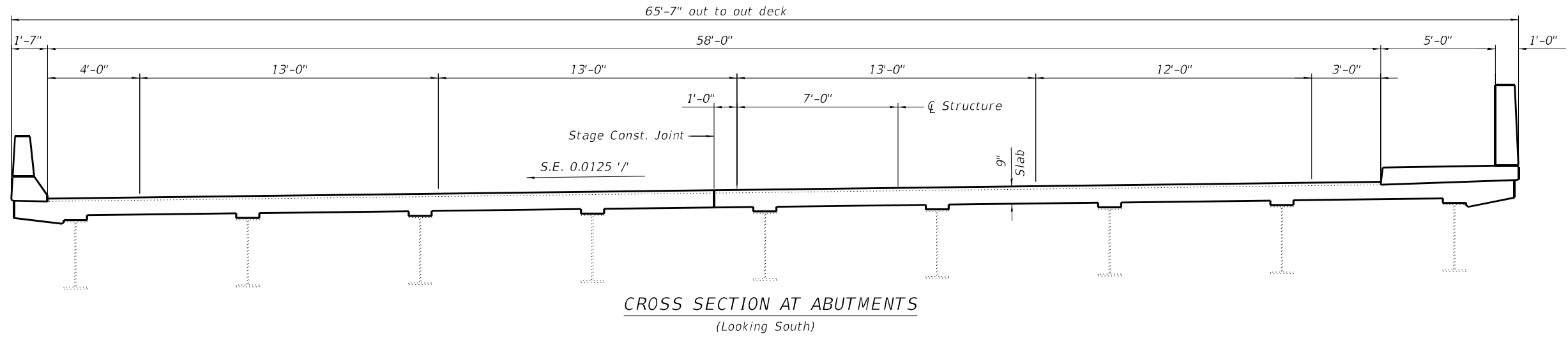
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
IL ROUTE 29 OVER GIMLET CREEK
STRUCTURE NO. 062 - 0057

SHEET NO. 1 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	49
*(3B-BR, BR-1)(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT_Corrections\CADD Files\Structures\Structure_sheets_68G39.dgn



TWM
 ENGINEERING
 GEOSPATIAL SERVICES

TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	
PLOT SCALE =		DRAWN -	CAJ	REVISED -	
PLOT DATE =	8/23/2023	CHECKED -	ALN/CDK	REVISED -	

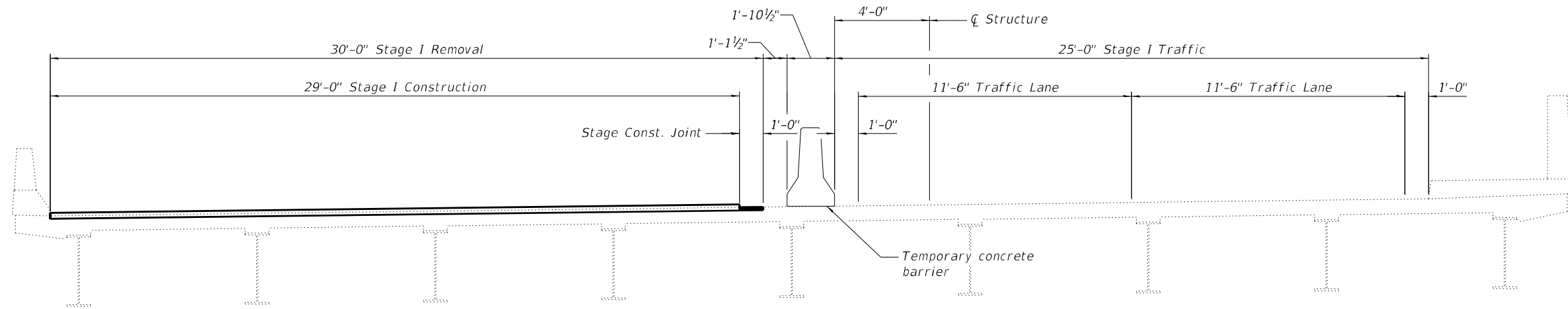
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
STRUCTURE NO. 062 - 0057

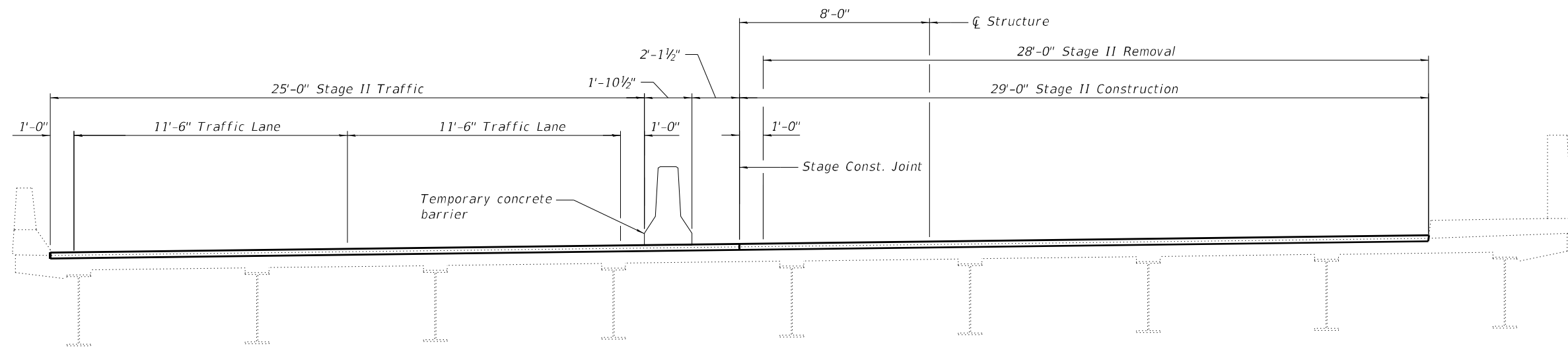
SHEET NO. 2 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	50
* (3B-BR, BR-1; (104b) BR-1) BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

MODEL: Default
 FILE NAME: O:\PD\GEN\XCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final Submittal 7-27-23\DOT_Corrections\CADD Files\Structures\Structure_sheets_68G39.dgn



STAGE I CONSTRUCTION
 (Looking South - Shown at Mid-Span)



STAGE II CONSTRUCTION
 (Looking South - Shown at Mid-Span)



USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	
PLOT SCALE =		DRAWN -	CAJ	REVISED -	
PLOT DATE =	8/23/2023	CHECKED -	ALN/CDK	REVISED -	

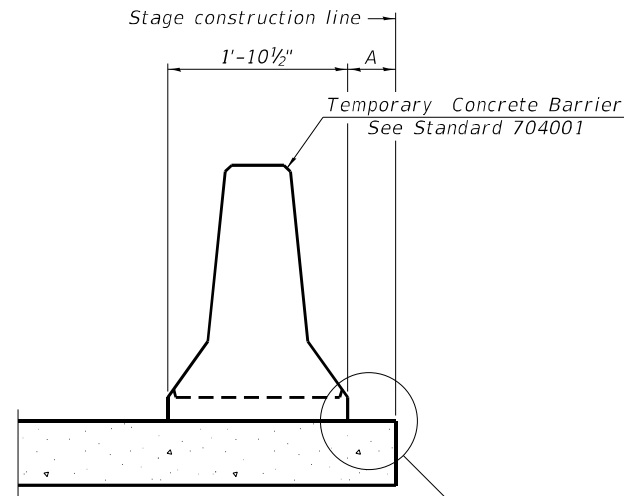
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 062 - 0057

SHEET NO. 3 OF 9 SHEETS

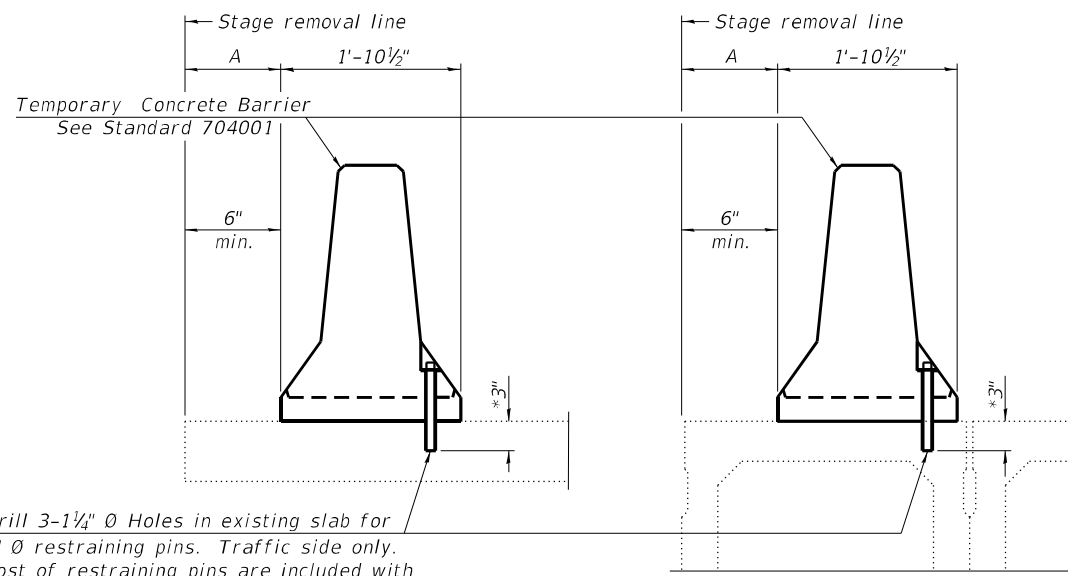
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	51
+ (3B-BR, BR-1; (104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
 FILE NAME: O:\PD\GENEXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn
 8/23/2023 10:52:57 AM



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



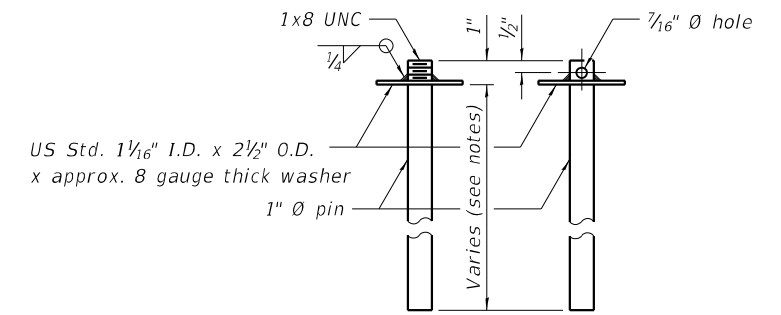
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

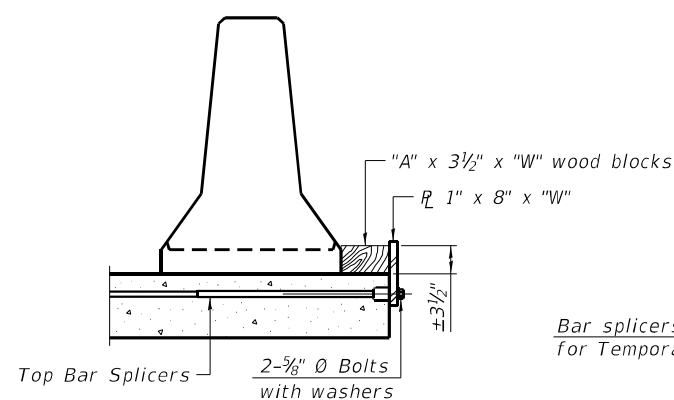
EXISTING SLAB

EXISTING DECK BEAM

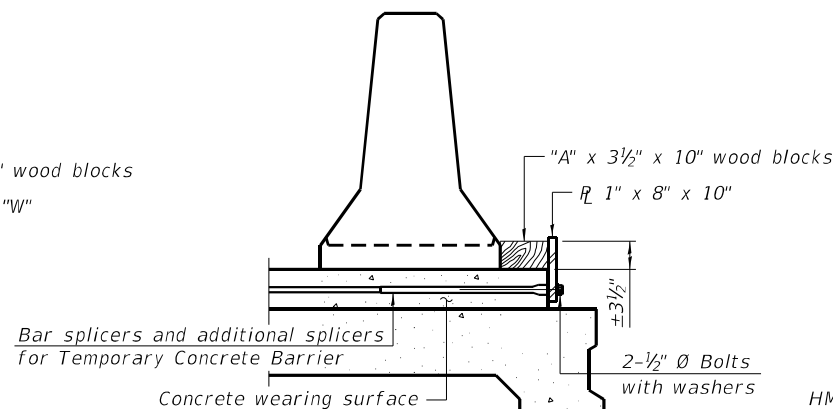
SECTIONS THRU SLAB OR DECK BEAM



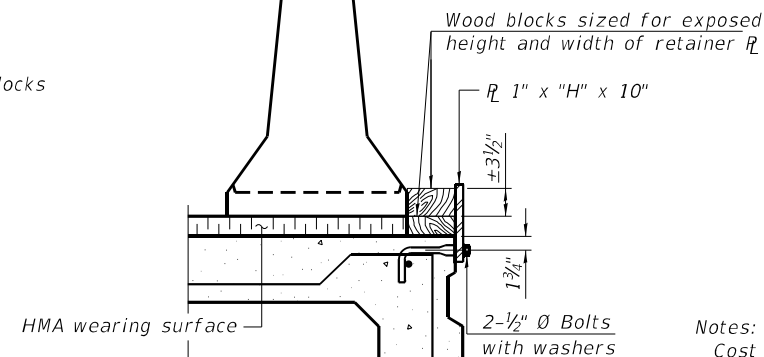
RESTRAINING PIN



DETAIL I



DETAIL II

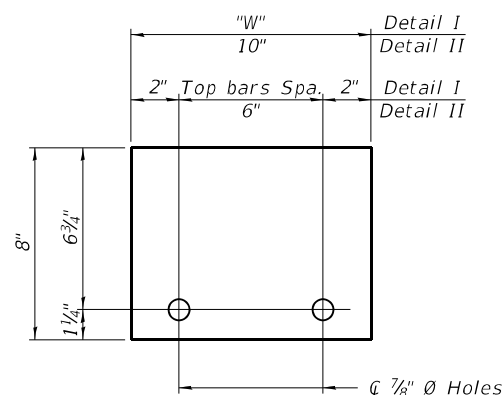


DETAIL III

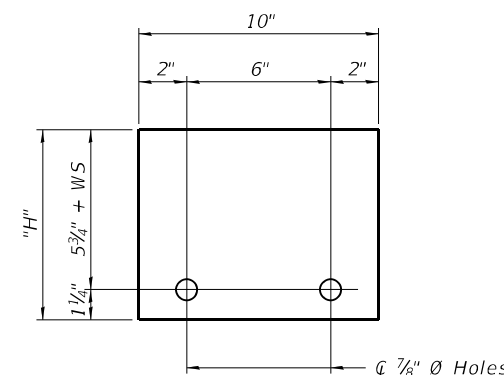
BAR SPLICER FOR #4 BAR - DETAIL III

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



STEEL RETAINER \bar{R} 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER \bar{R} 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220
 USER NAME = \$USERS\$
 PLOT SCALE =
 PLOT DATE = 8/23/2023

DESIGNED - CAJ
 CHECKED - CDK
 DRAWN - CAJ
 CHECKED - CDK

REVISED -
 REVISED -
 REVISED -
 REVISED -

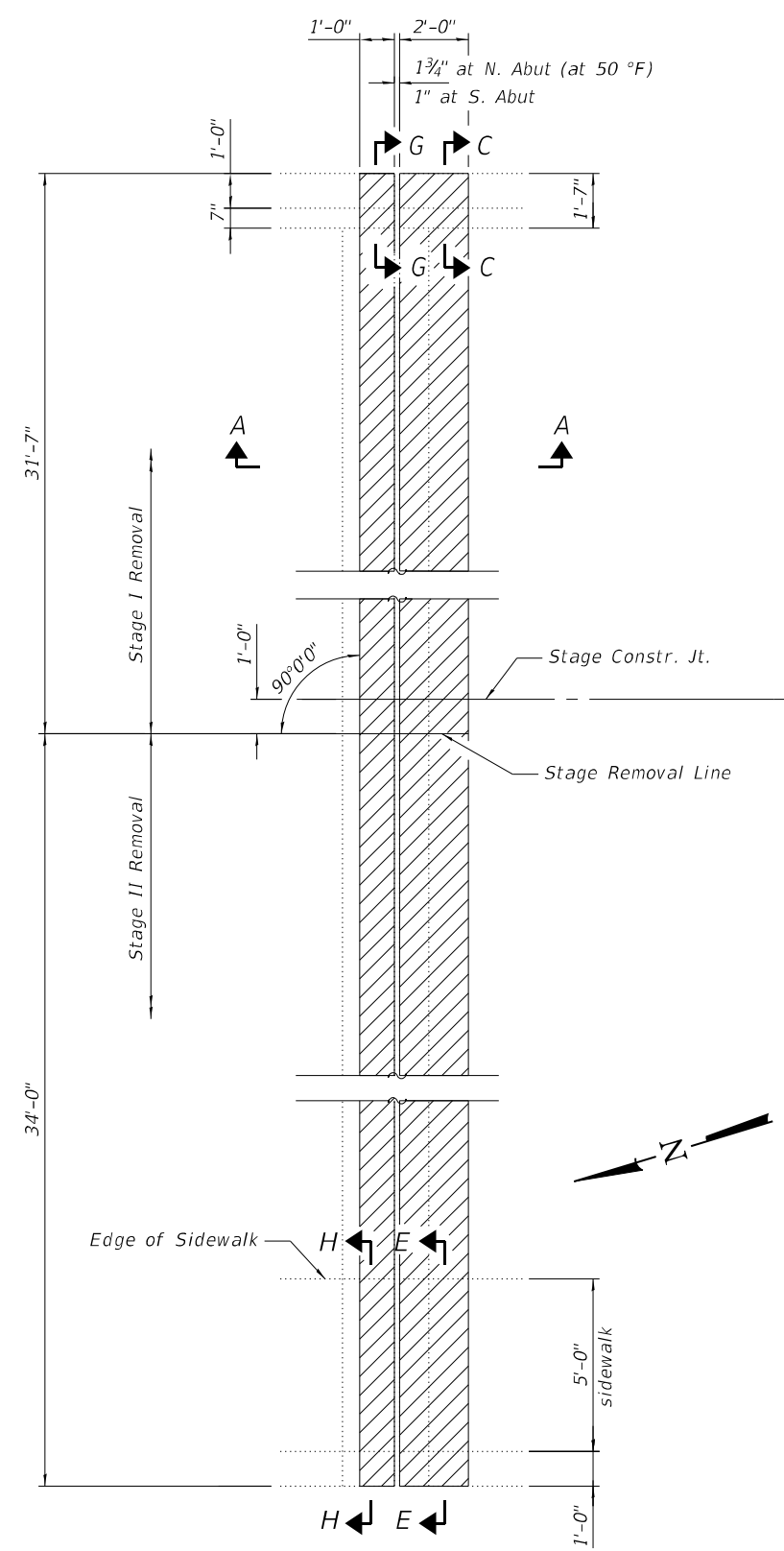
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 062 - 0057

SHEET NO. 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	52
*(3B-BR-BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn
 8/23/2023 10:52:57 AM

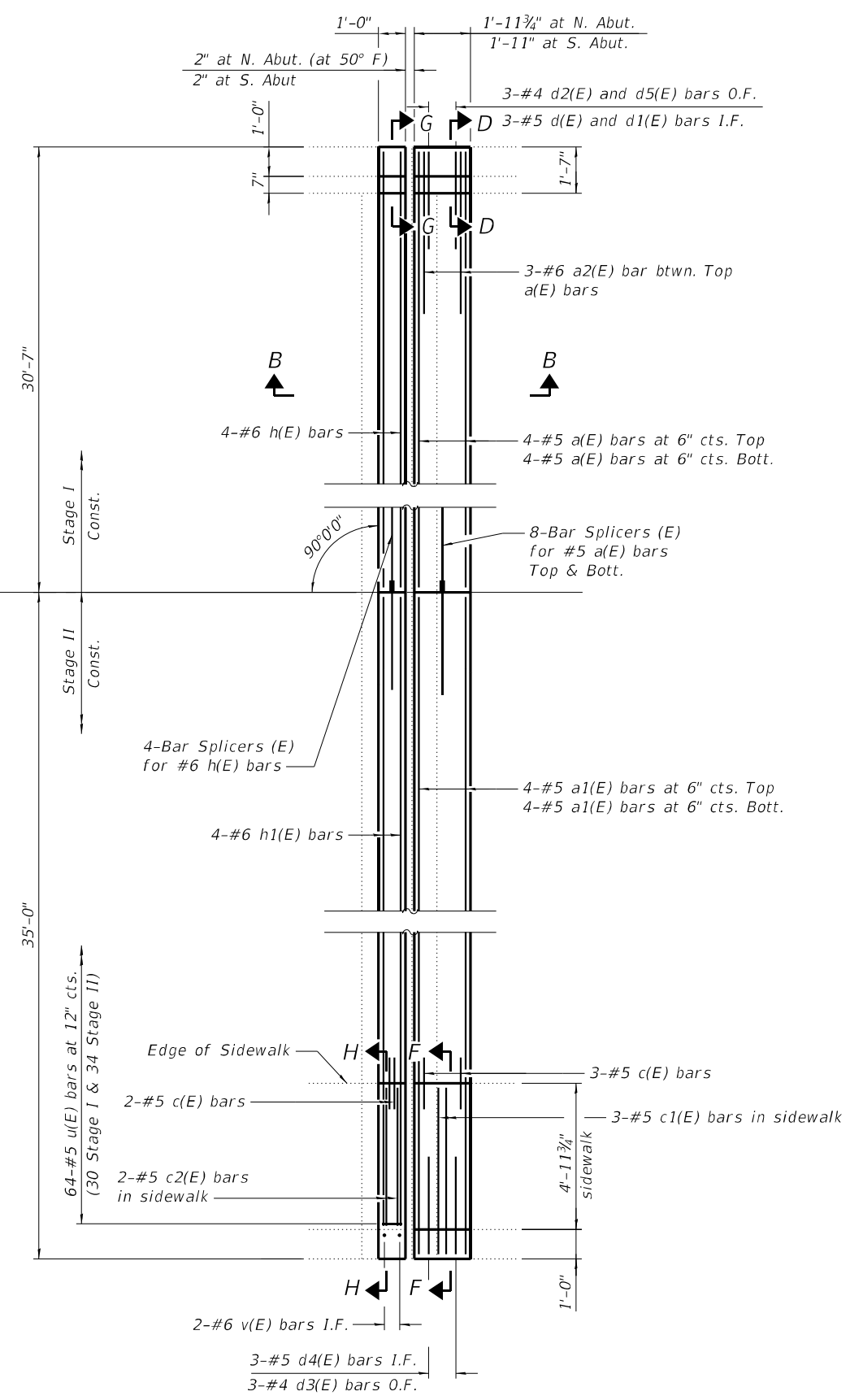


Concrete Removal

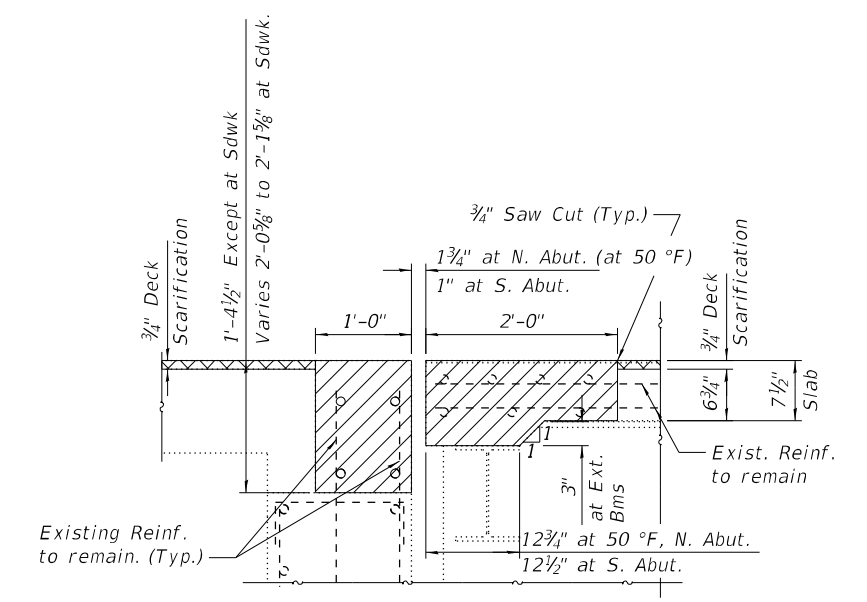
CONCRETE REMOVAL PLAN

(North Abut. Joint shown. South Abut. Joint similar by mirror image, except where noted)

See Sheet 6 of 9 for Sections C-C, D-D, E-E, F-F, G-G, and H-H

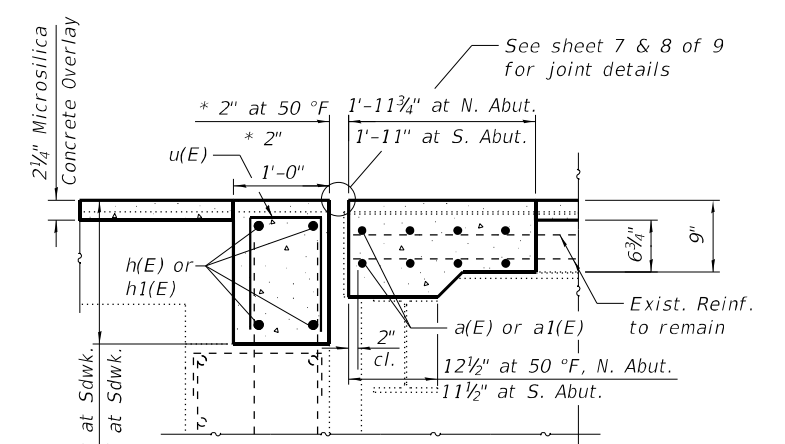


CONCRETE REPLACEMENT PLAN



SECTION A-A

3/4" Deck Scarification
 Concrete Removal



SECTION B-B

* Dimension showing concrete opening. For joint opening see sheet 7 of 9.

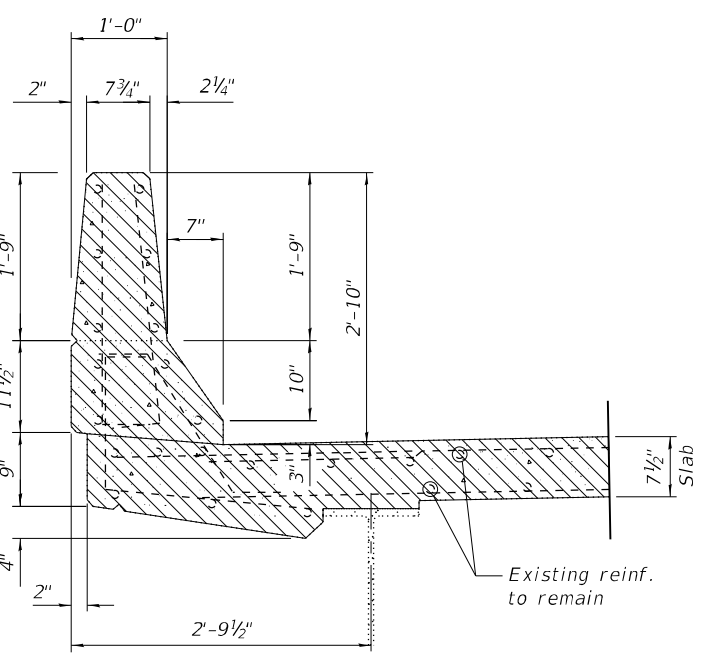
USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	
PLOT SCALE =		DRAWN -	CAJ	REVISED -	
PLOT DATE =	8/23/2023	CHECKED -	ALN/CDK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

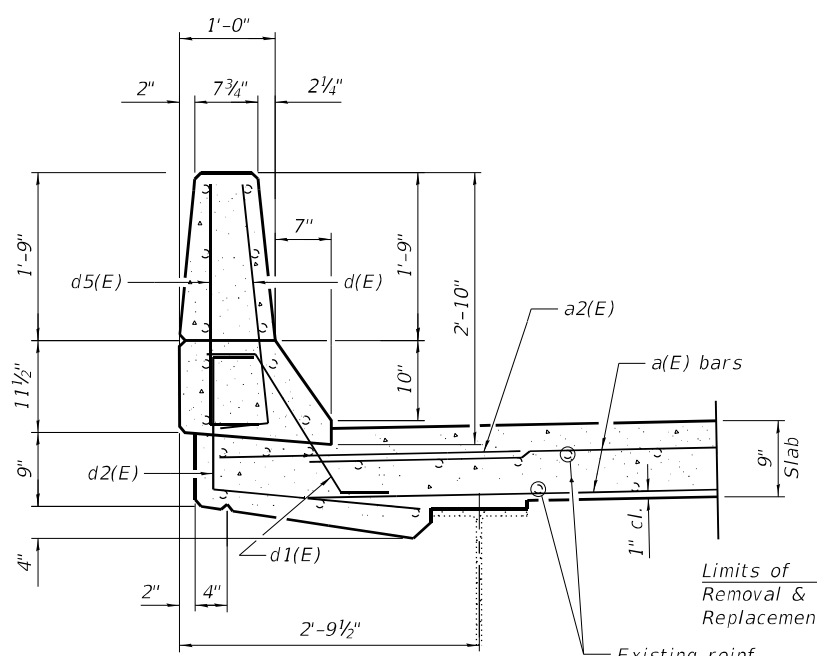
ABUTMENT JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO. 062 - 0057
 SHEET NO. 5 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	53
* (3B-BR, BR-1; 104b) BR-1) BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

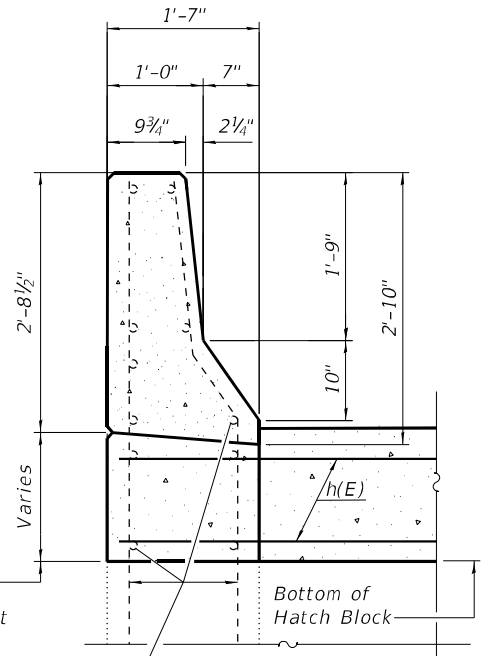
MODEL: Default
 FILE NAME: O:\PD\GENEXCELL\Studies & Plans\Squad 9 - Arlene\Contract\66G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn
 8/23/2023 10:52:58 AM



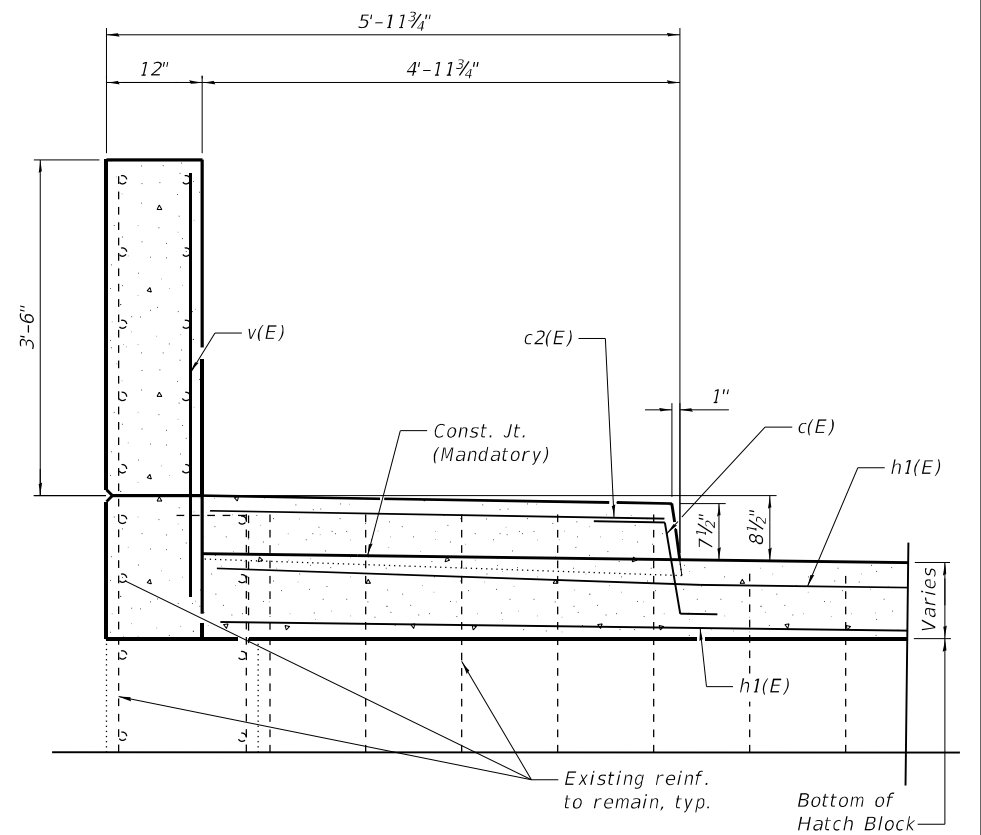
SECTION C-C



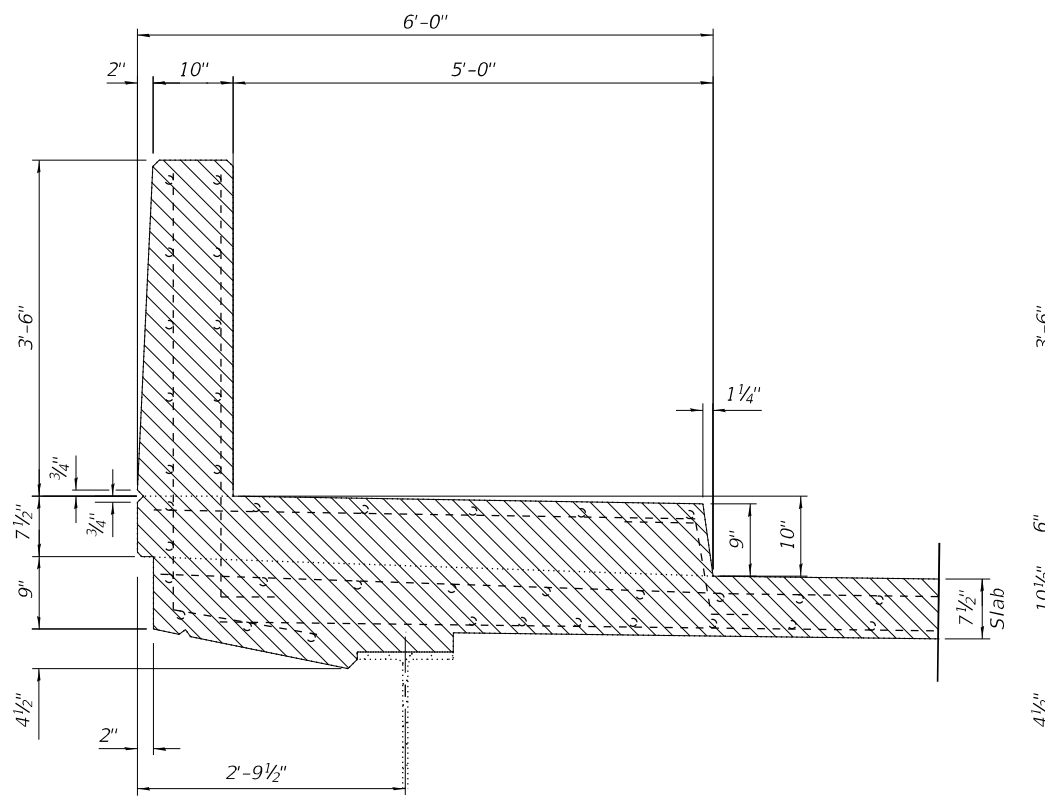
SECTION D-D



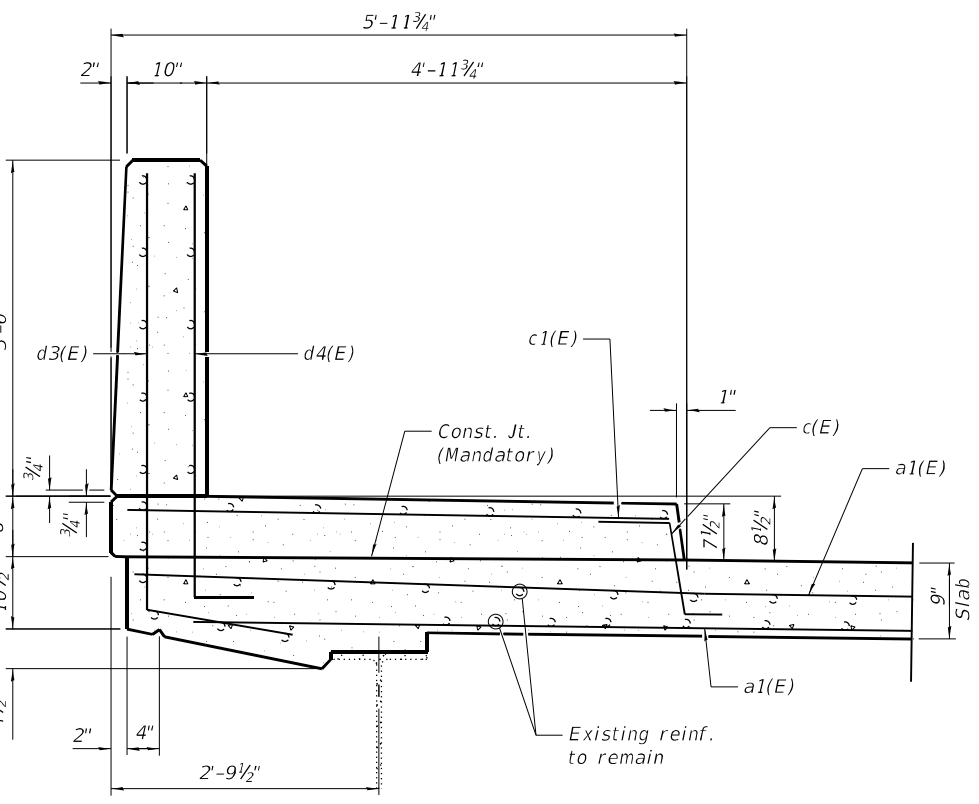
SECTION G-G



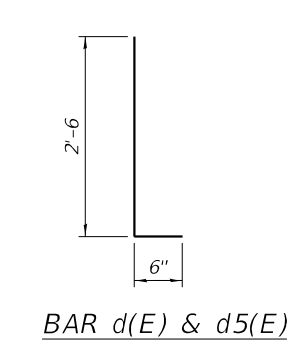
SECTION H-H



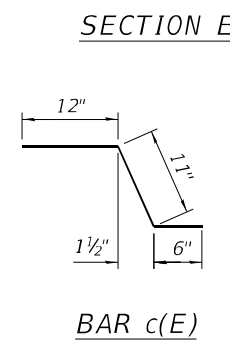
SECTION E-E



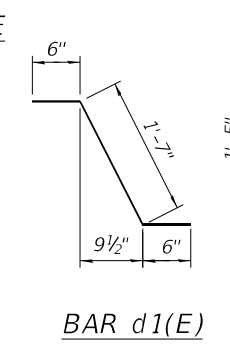
SECTION F-F



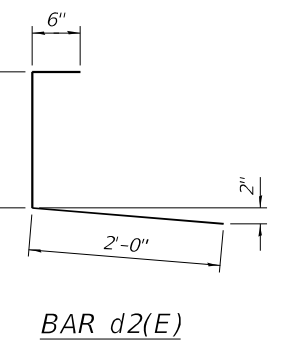
BAR d(E) & d5(E)



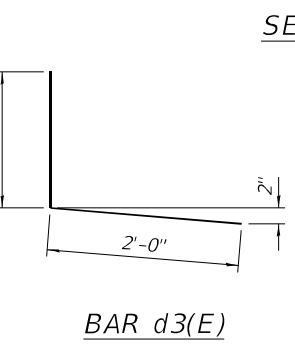
BAR c(E)



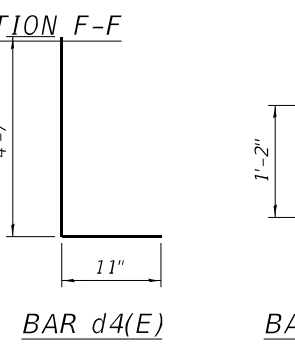
BAR d1(E)



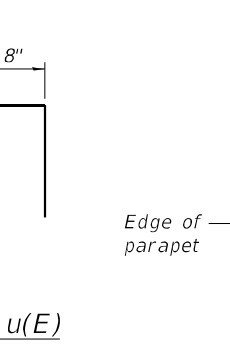
BAR d2(E)



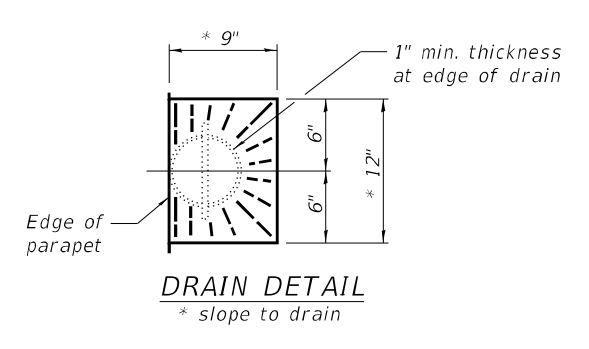
BAR d3(E)



BAR d4(E)



BAR u(E)



DRAIN DETAIL
* slope to drain

**SUPERSTRUCTURE
BILL OF MATERIAL
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
a(E)	16	#5	30'-2"	—
a1(E)	16	#5	34'-7"	—
a2(E)	6	#6	4'-0"	—
c(E)	10	#5	2'-5"	↘
c1(E)	6	#5	5'-6"	—
c2(E)	4	#5	4'-6"	—
d(E)	6	#5	3'-0"	└
d1(E)	6	#5	2'-7"	└
d2(E)	6	#4	3'-11"	└
d3(E)	6	#4	6'-7"	└
d4(E)	6	#5	5'-6"	└
d5(E)	6	#4	3'-0"	└
h(E)	8	#6	30'-3"	—
h1(E)	8	#6	33'-8"	—
u(E)	128	#5	3'-0"	⊏
v(E)	4	#6	5'-6"	—
Concrete Removal			Cu. Yd.	16.7
Superstructure			Cu. Yd.	18.2
Reinforcement Bars, Epoxy Coated			Pound	2520

TWM, INC.
 IL DESIGN FIRM
 LICENSE NO: 184-001220

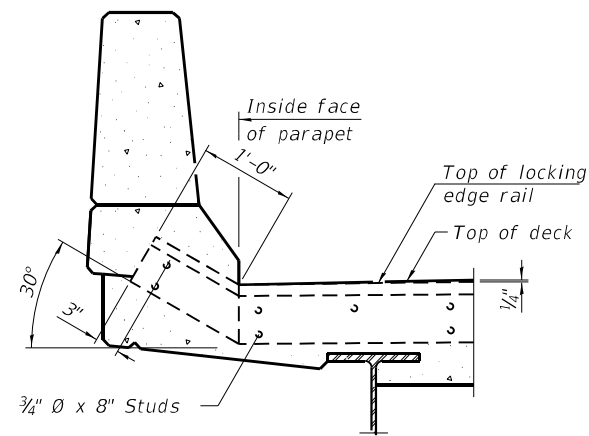
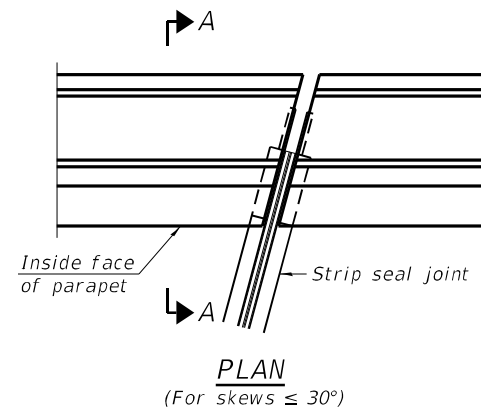
USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	ALN/CDK	REVISED -	
PLOT DATE =	8/23/2023	DRAWN -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

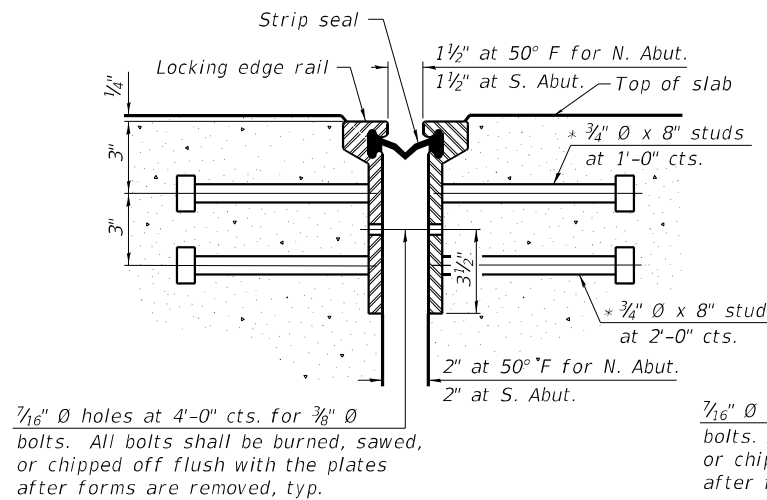
**ABUTMENT JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO. 062 - 0057**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	54
* (3B-BR, BR-1; 104b) BR-1) BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS / FED. AID PROJECT				

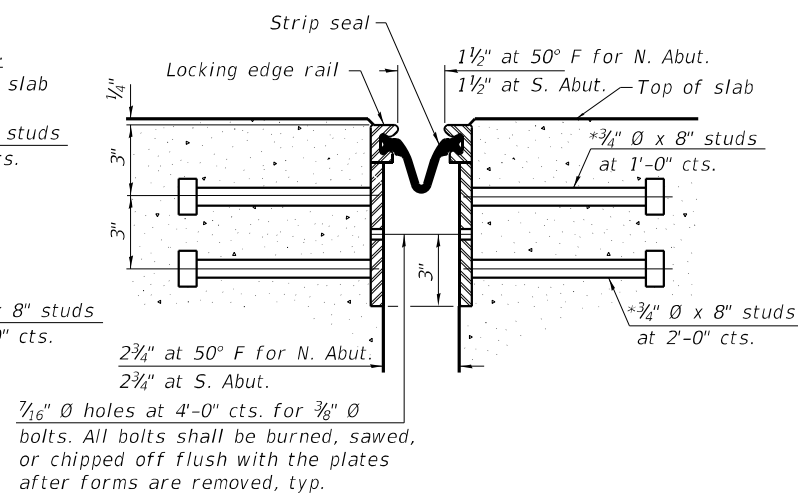
MODEL: Default
 FILE NAME: O:\PD\GENEXCELL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final_Submittal_7-27-23\DOT Corrections\CADD Files\Structures\Structure_sheets_68G39.dgn



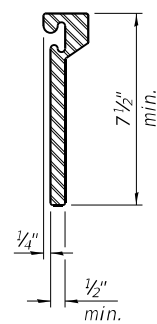
SECTION A-A



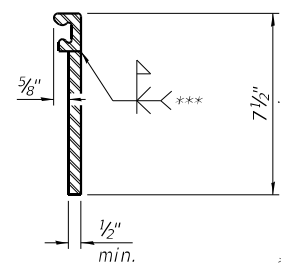
SECTION THRU ROLLED RAIL JOINT



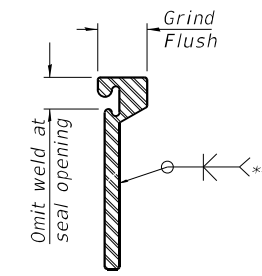
SECTION THRU WELDED RAIL JOINT



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

*** Back gouge not required if complete joint penetration is verified by mock-up.

7/16" \varnothing holes at 4'-0" cts. for 3/8" \varnothing bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

7/16" \varnothing holes at 4'-0" cts. for 3/8" \varnothing bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

LOCKING EDGE RAILS

(Sheet 1 of 2)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Cost of sidewalk sliding plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	128

TWM
 ENGINEERING
 GEOSPATIAL SERVICES
 TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO:
 184-001220

USER NAME =	SUSERS\$
PLOT SCALE =	
PLOT DATE =	8/23/2023

DESIGNED -	CAJ
CHECKED -	ALN/CDK
DRAWN -	CAJ
CHECKED -	ALN/CDK

REVISED -	
REVISED -	
REVISED -	
REVISED -	

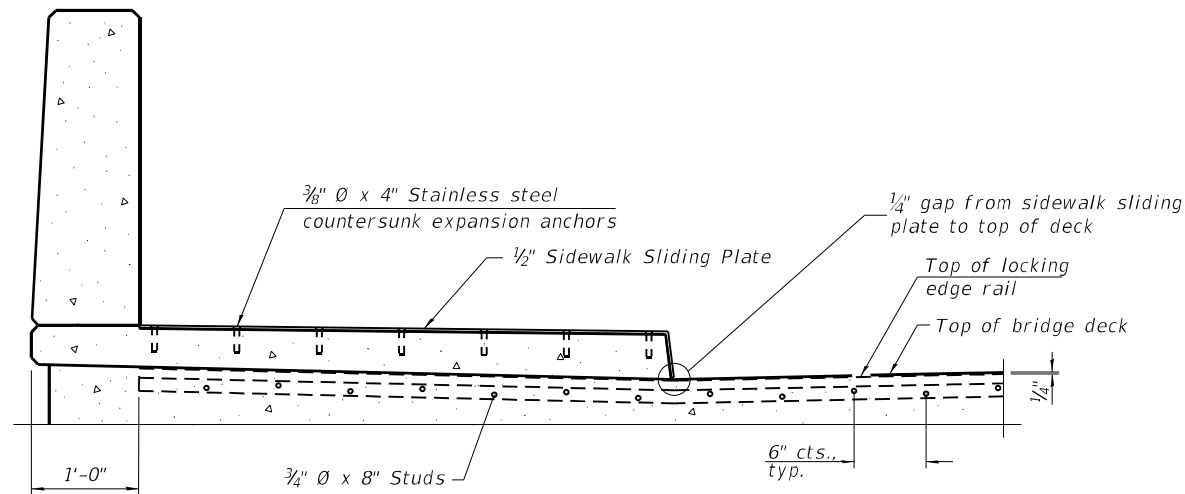
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK
 STRUCTURE NO. 062 - 0057**

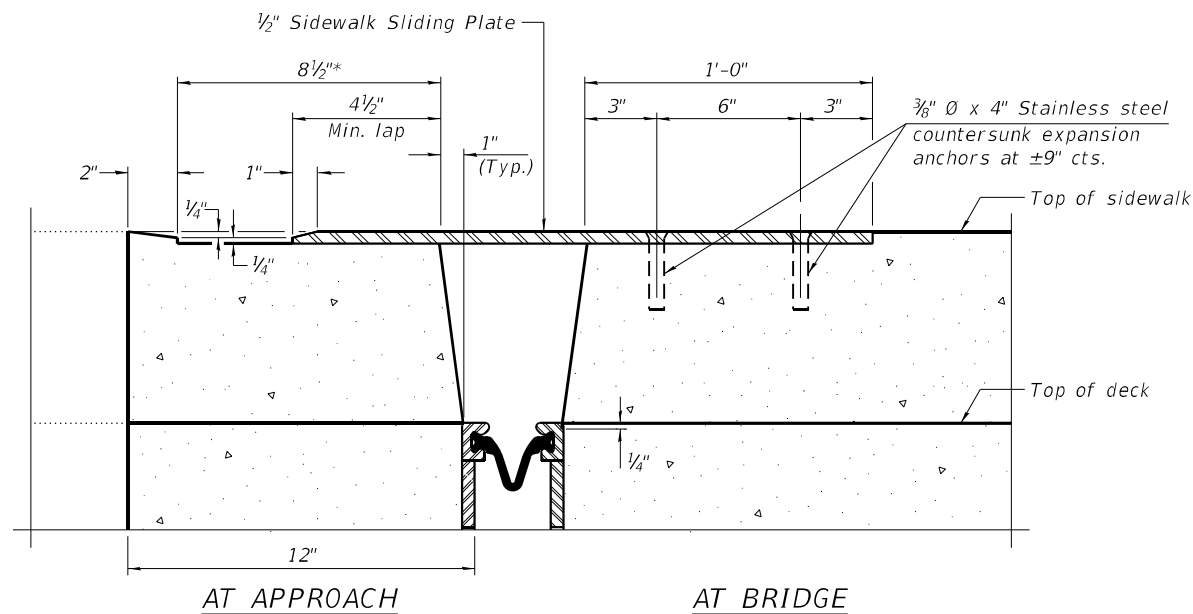
SHEET NO. 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	55
*(3B-BR, BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant_Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn
 8/23/2023 10:53:00 AM

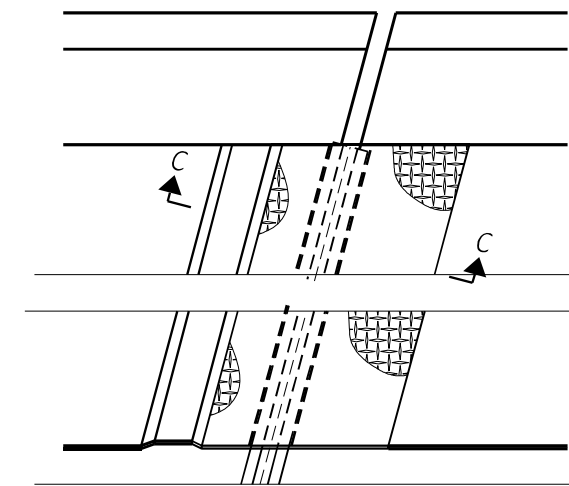


ELEVATION AT RAISED SIDEWALK



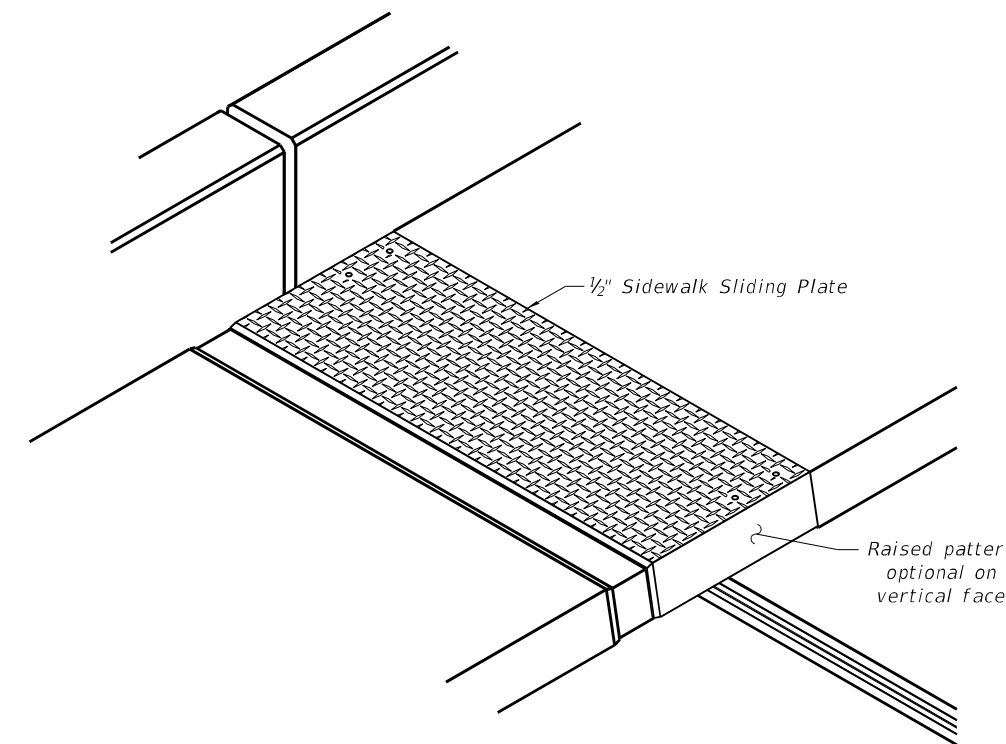
SECTION C-C

**Dimensions are based on a Welded Rail Strip Seal Joint. If the contractor elects to use the Rolled Rail Strip Seal Joint, dimensions may require adjustment.*



(FOR SKEWS ≤ 30°)

PLAN AT RAISED SIDEWALK



TRIMETRIC VIEW

(Sheet 2 of 2)



USER NAME =	SUSERS\$	DESIGNED -	CAJ	REVISED -	
PLOT SCALE =		CHECKED -	ALN/CDK	REVISED -	
PLOT DATE =	8/23/2023	DRAWN -	CAJ	REVISED -	
		CHECKED -	ALN/CDK	REVISED -	

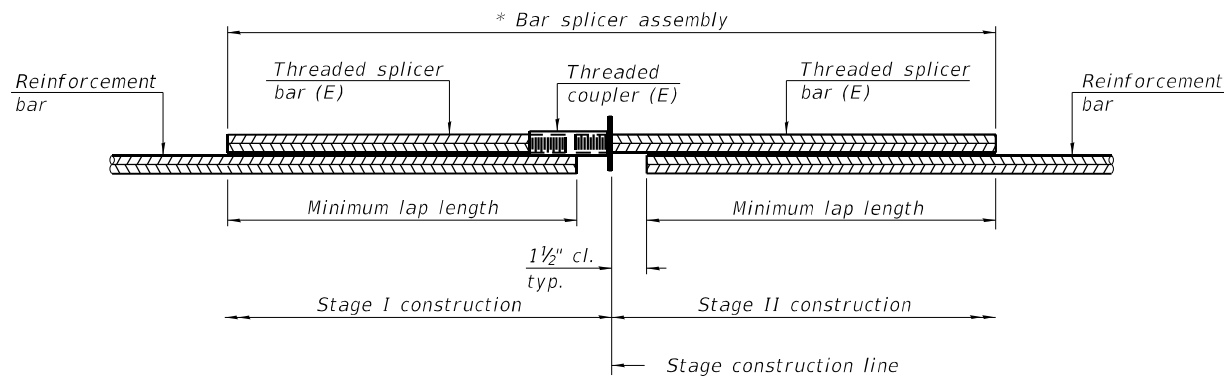
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 062 - 0057**

SHEET NO. 8 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318		MARSHALL	72	56
+ (3B-BR, BR-1; (104b) BR-1) BDR, BRR			CONTRACT NO. 68G39	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
 FILE NAME: O:\PD\GEN\EXCEL\Studies & Plans\Squad 9 - Arlene\Contract\68G39 - Bridge Preservation - TWM Consultant\Consultant Final_Submittal_7-27-23\DOT_Corrections\CADD_Files\Structures\Structure_sheets_68G39.dgn

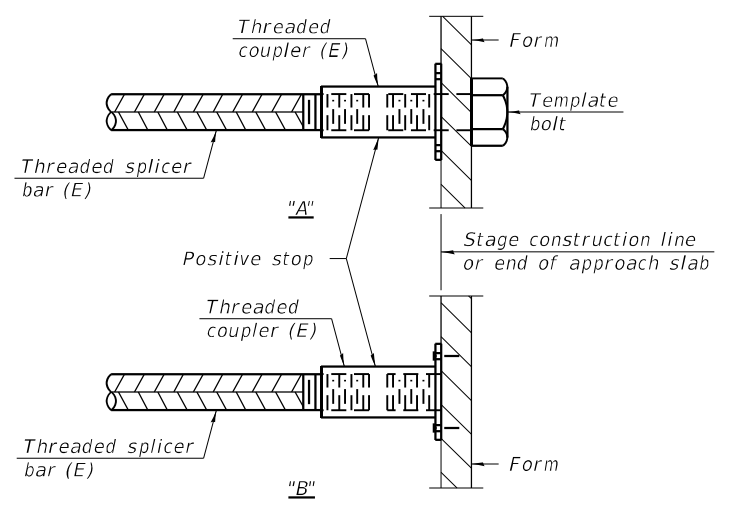


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

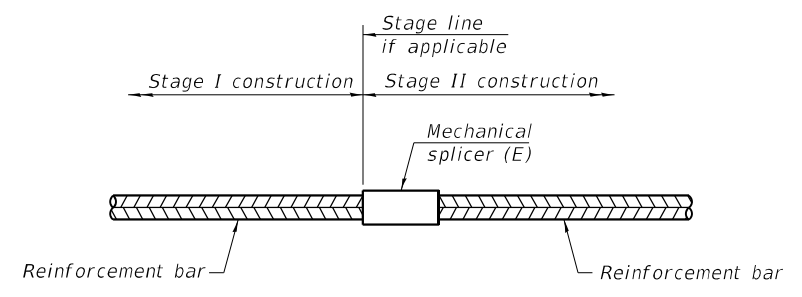
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	16	3'-6"
Hatch Block	#6	8	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020



USER NAME =	SUSERS	DESIGNED - CAJ	REVISED -
CHECKED -	ALN/CDK	REVISIONS -	
PLOT SCALE =		DRAWN - CAJ	REVISED -
PLOT DATE =	8/23/2023	CHECKED - ALN/CDK	REVISED -

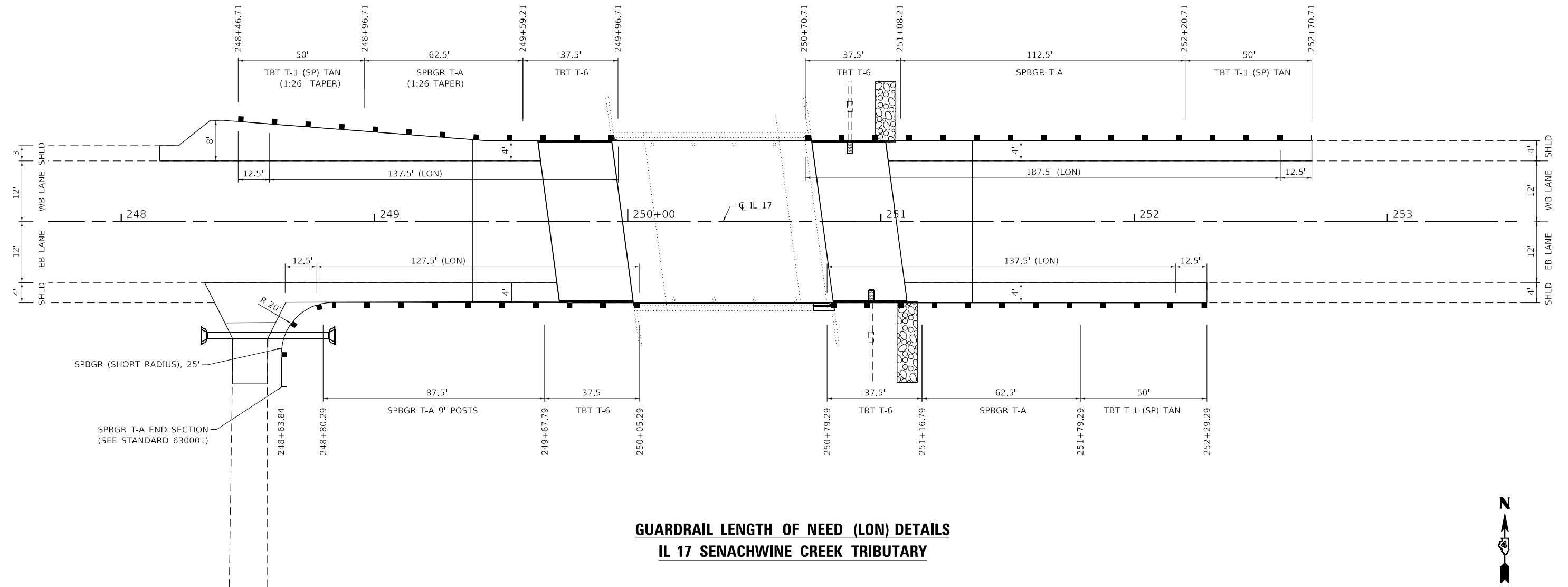
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 062 - 0057**

SHEET NO. 9 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	57
*(3B-BR, BR-1;(104b)BR-1)BDR,BRR		CONTRACT NO. 68G39		
ILLINOIS		FED. AID PROJECT		

NOTE: AT THE POINT WHERE TANGENT GUARDRAIL MEETS FLARED GUARDRAIL, A 12.5 FT SECTION OF SPBGR SHALL BE INSTALLED ON A SLIGHT CURVE BY ADJUSTING THE POST BACK A SMALL DISTANCE.



**GUARDRAIL LENGTH OF NEED (LON) DETAILS
IL 17 SENACHWINE CREEK TRIBUTARY**



N.T.S.

MODEL Path: \\...
FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - A\Drawn\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\68G39-shieldguardrail.dwg
CONTRACT NO. 68G39

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM
LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:80	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

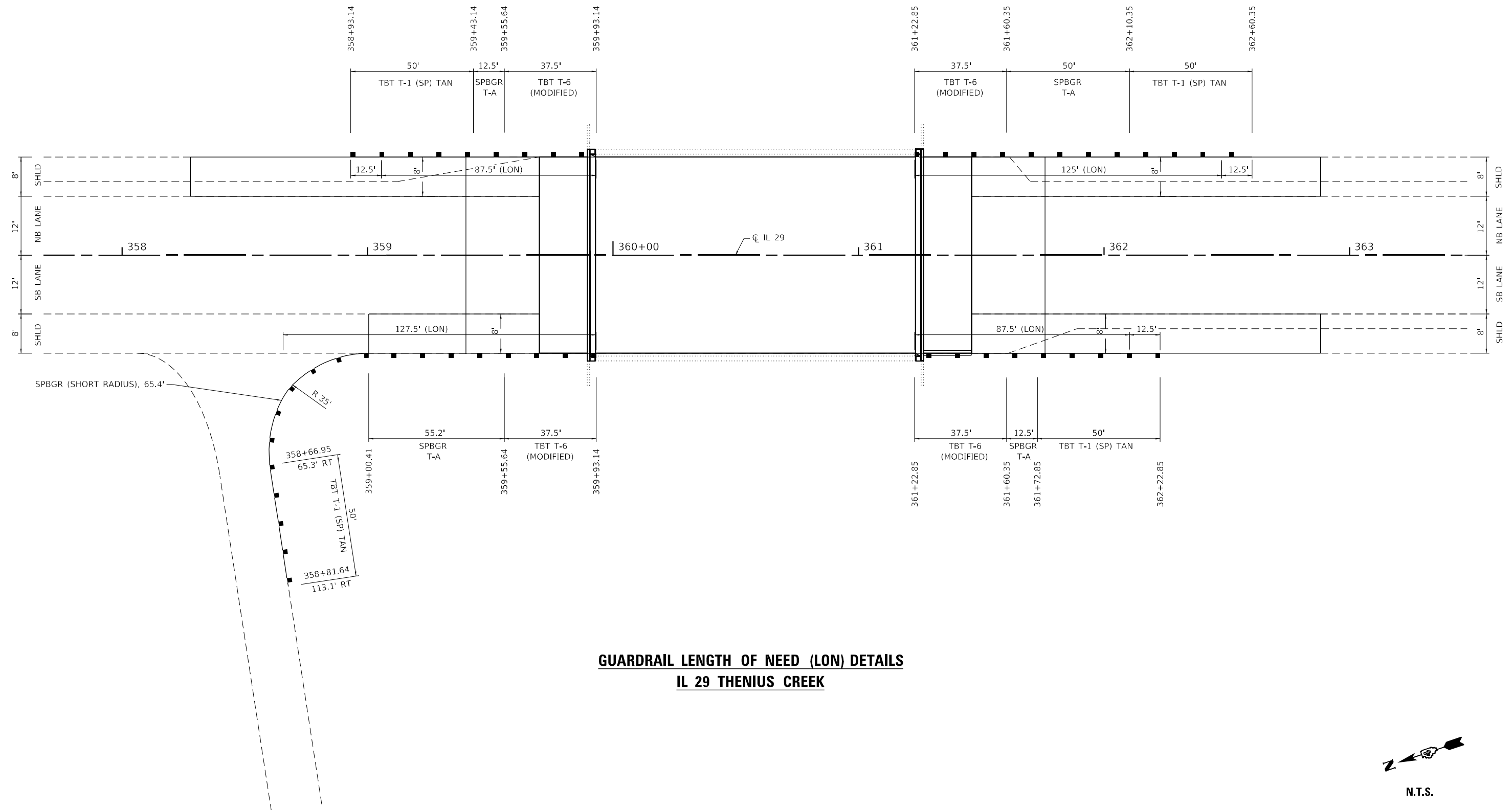
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL LENGTH OF NEED
IL ROUTE 17 - S.N. 062-0059**

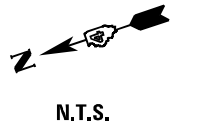
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	58
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR		CONTRACT NO. 68G39		
ILLINOIS FED. AID PROJECT				

MODEL Path: \\...
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Admin\Contract\68G39 - Bridge Preservation - TWM\Consultant\Final Submittal 7-27-23\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-shieldguardrail_LON_062-0056.dgn



**GUARDRAIL LENGTH OF NEED (LON) DETAILS
 IL 29 THENIUS CREEK**



TWM, INC.
 www.twm-inc.com
 IL DESIGN FIRM
 LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:80	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL LENGTH OF NEED
 IL ROUTE 29 - S.N. 062-0056**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	59
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\...
 FILE NAME: C:\...
 PROJECT: ...
 SHEET: ...

CENTER ST

E FERRY ST

FERRY ST

GIMLET CREEK RD

IL-29 / SOUTH RAILROAD ST

SIGN PANEL TYPE 1
 TELESCOPING STEEL SIGN SUPPORT
 BASE FOR TELESCOPING STEEL SIGN SUPPORT
 STA. 384+51.59
 OFFSET 30.48' LT



R1-1 (30x30)

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 24"

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 4"
 SOLID WHITE LINE

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 24"
 SOLID WHITE STOP BAR

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 4"
 SOLID WHITE LINE

PR. MODIFIED URETHANE
 PAVEMENT MARKING -
 LETTERS & SYMBOLS (TYP.)

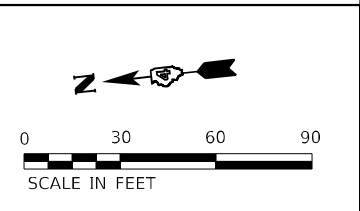
PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 24"
 SOLID WHITE STOP BAR

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 4"
 SOLID WHITE LINE

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 4"
 DOUBLE YELLOW LINE

PR. MODIFIED URETHANE
 PAVEMENT MARKING - LINE 12"
 DIAGONAL YELLOW LINE (TYP.)

S.N. 062-0057



USER NAME = \$USERS
 PLOT SCALE = 1:60
 PLOT DATE = 8/23/2023

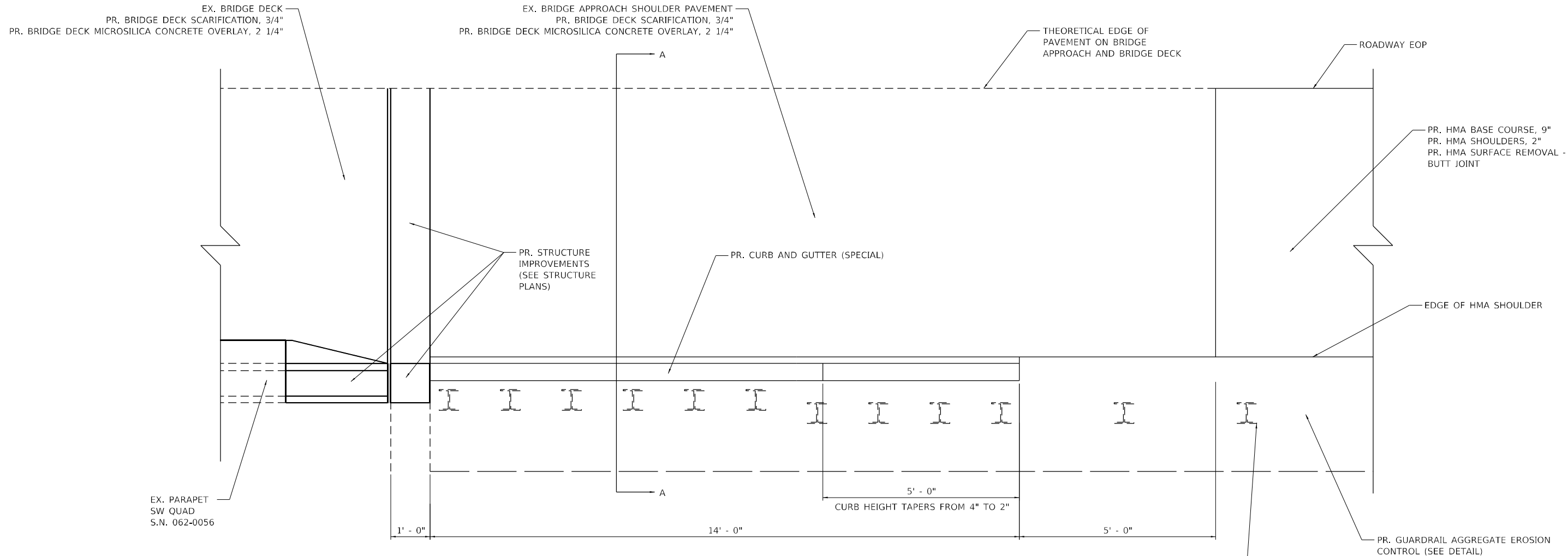
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

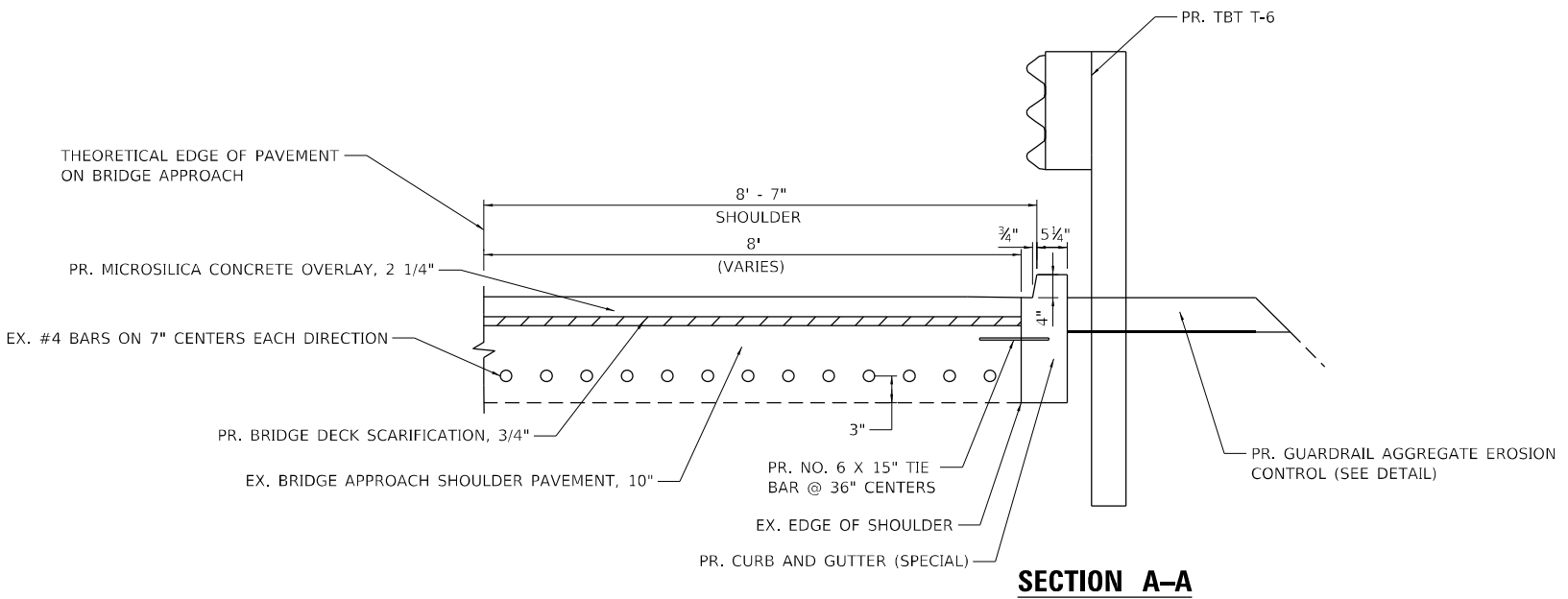
PAVEMENT MARKING AND SIGNAGE SHEET
 IL ROUTE 29 - S.N. 062-0057

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	60
*(3B-BR-1;(104b)BR-1)BDR,BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				



**CURB AND GUTTER (SPECIAL) DETAIL – SW QUADRANT
PLAN VIEW**



SECTION A-A



N.T.S.

MODEL Path: \\... TWM\Consultant\Contractor\68G39_Bridge_Preservation... TWM\Consultant\Contractor\Final_Submittal_727231\DOT_Corrections\CADD_Files\CADD_Sheets\0468G39-sh-detailed-curb_and_gutter_spect\062-0056.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:4	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

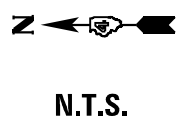
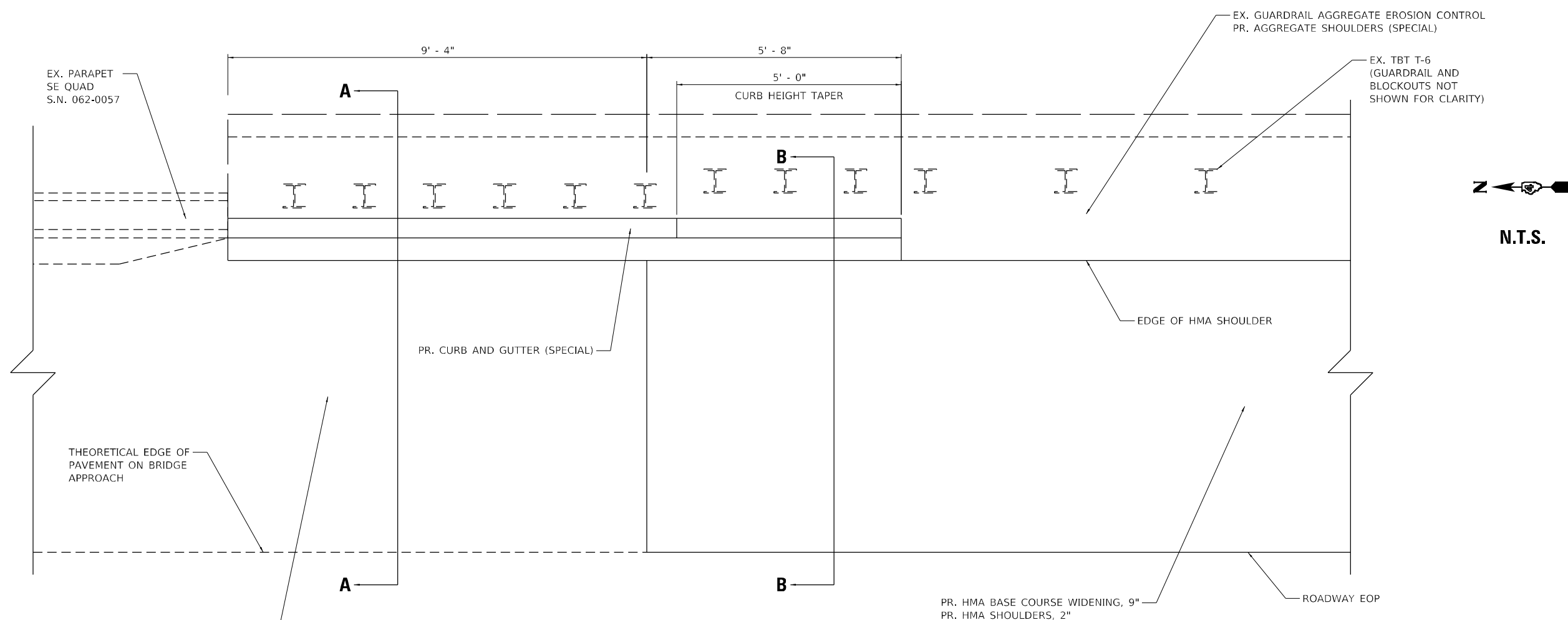
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB AND GUTTER (SPECIAL) DETAIL
IL ROUTE 29 – S.N. 062-0056**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

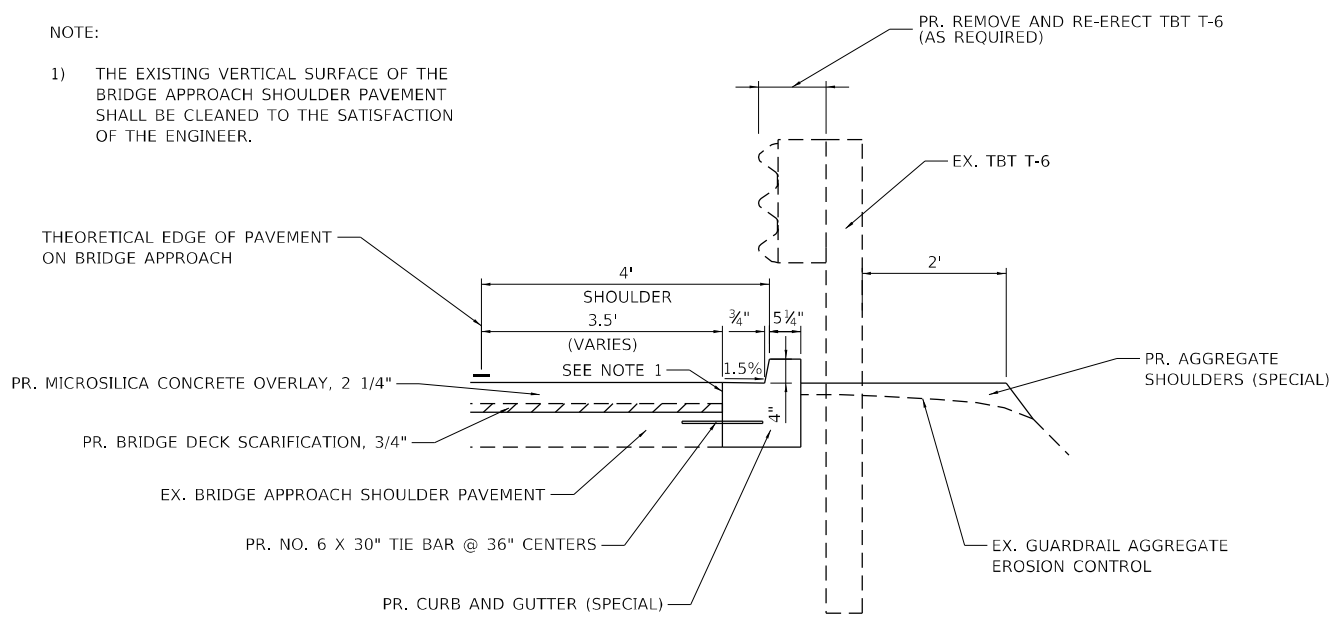
F.A.P. RTE. 318	SECTION *	COUNTY MARSHALL	TOTAL SHEETS 72	SHEET NO. 61
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR		CONTRACT NO. 68G39		
ILLINOIS FED. AID PROJECT				



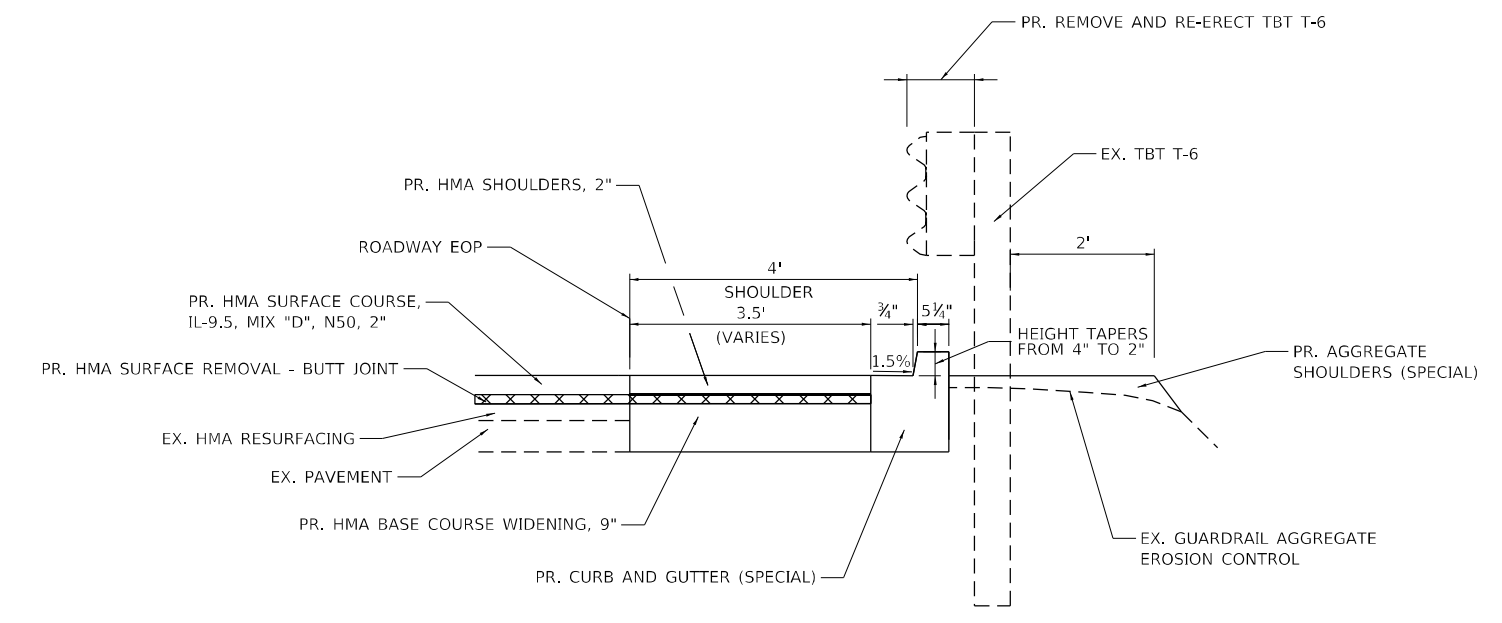
EX. BRIDGE APPROACH SHOULDER PAVEMENT
 PR. BRIDGE DECK SCARIFICATION, 3/4"
 PR. BRIDGE DECK MICROSILICA CONCRETE OVERLAY, 2 1/4"

CURB AND GUTTER (SPECIAL) DETAIL – SE QUADRANT
PLAN VIEW

NOTE:
 1) THE EXISTING VERTICAL SURFACE OF THE BRIDGE APPROACH SHOULDER PAVEMENT SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER.



SECTION A-A



SECTION B-B

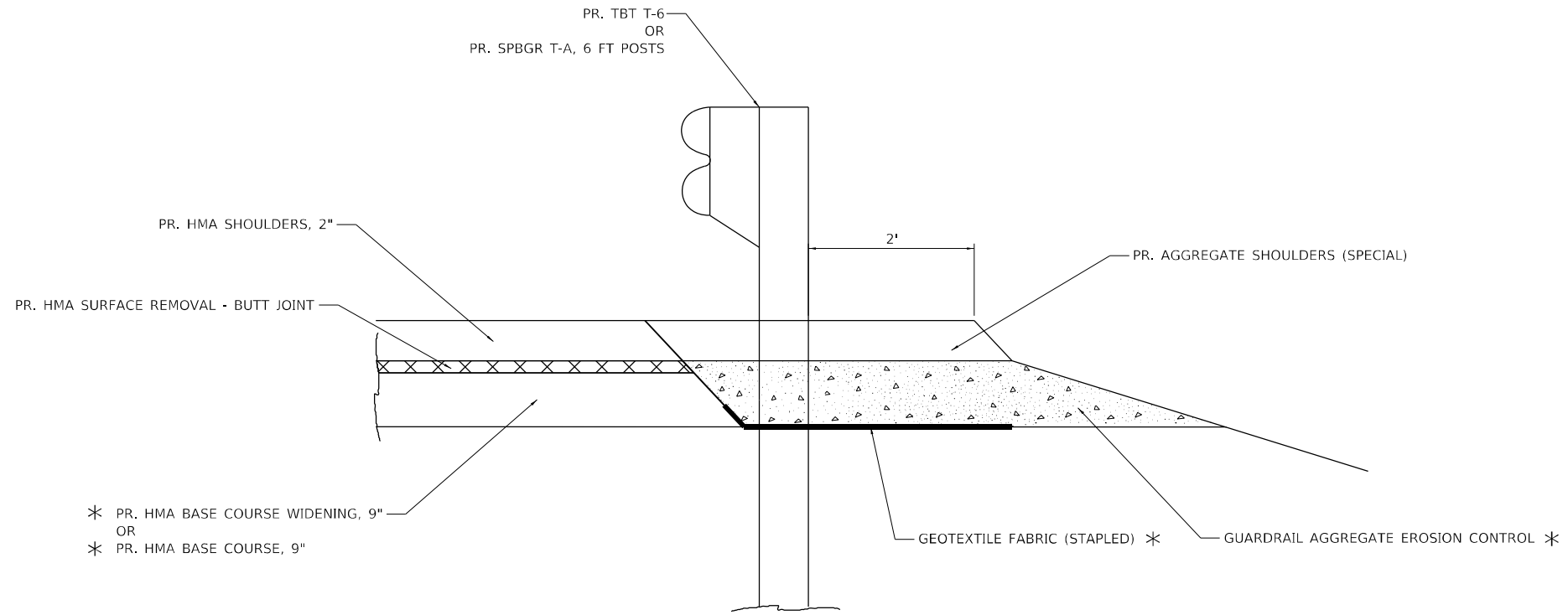


USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:4	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CURB AND GUTTER (SPECIAL) DETAIL			
IL ROUTE 29 – S.N. 062-0057			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	62
*(3B-BR, BR-1; 104b) BR-1) BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				



* ITEMS CONSTRUCTED PREVIOUSLY PRIOR TO
CONSTRUCTING HMA ROADWAY APPROACH TAPERS

AGGREGATE SHOULDERS (SPECIAL) DETAIL

S.N. 062-0059

STA. 249+39.36 TO STA. 249+69.36
STA. 251+06.64 TO STA. 251+36.64

S.N. 062-0056

STA. 359+40.00 TO STA. 359+70.00
STA. 361+46.00 TO STA. 361+76.00

S.N. 062-0057

SEE CURB AND GUTTER (SPECIAL) DETAIL

MODEL Path: \\...
FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Alton\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Files\CADD Sheets\68G39-sh-detailed-aggregate-shoulder-special.dgn



USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:40	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AGGREGATE SHOULDERS (SPECIAL) DETAIL

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	63
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

CASE 1 : HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

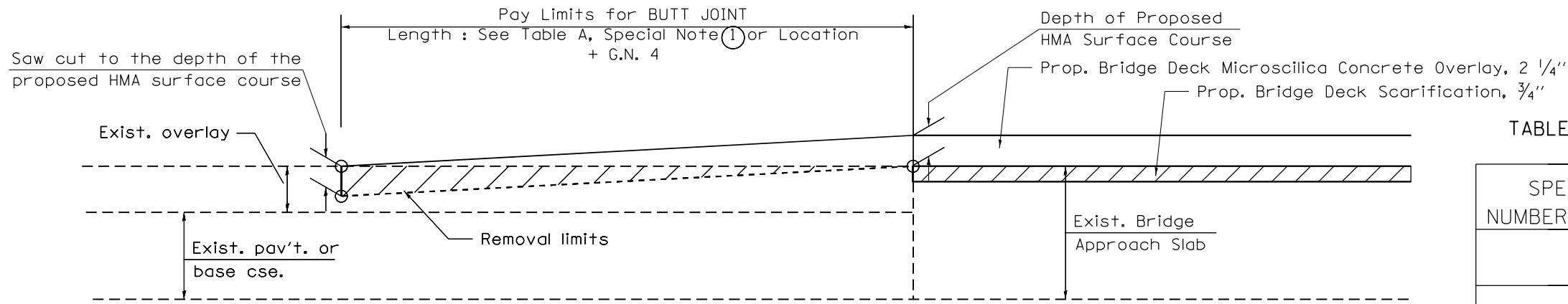
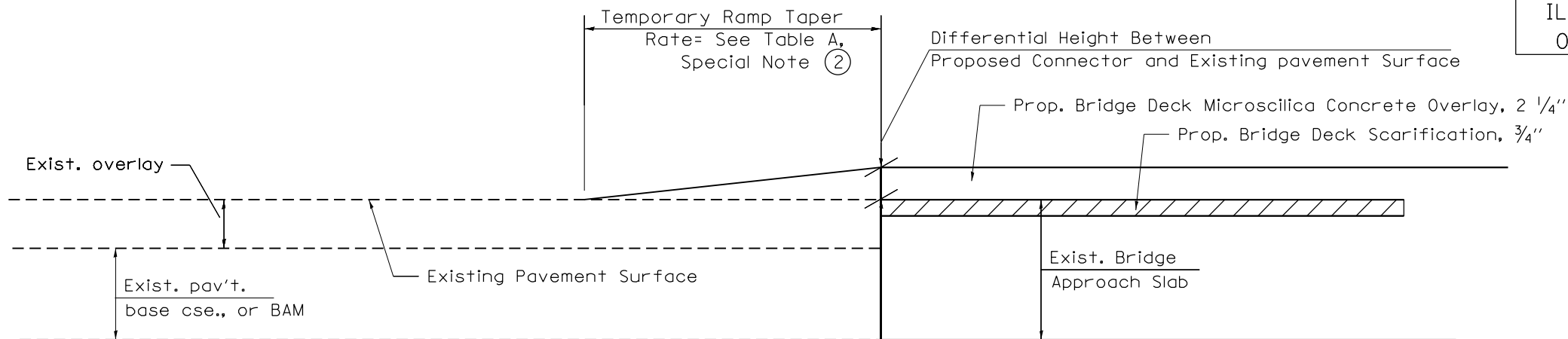


TABLE A

TAPER RATES

SPECIAL NOTE NUMBER OR LOCATION	ELEMENT	IL 29 & IL 17
①	BUTT JOINT TAPER RATE	1:240
②	TEMPORARY RAMP TAPER RATE	1:40
IL 29 NORTH SIDE OF SN 062-0057	BUTT JOINT TAPER RATE	1:208
IL 29 SOUTH SIDE OF SN 062-0057	BUTT JOINT TAPER RATE	1:568

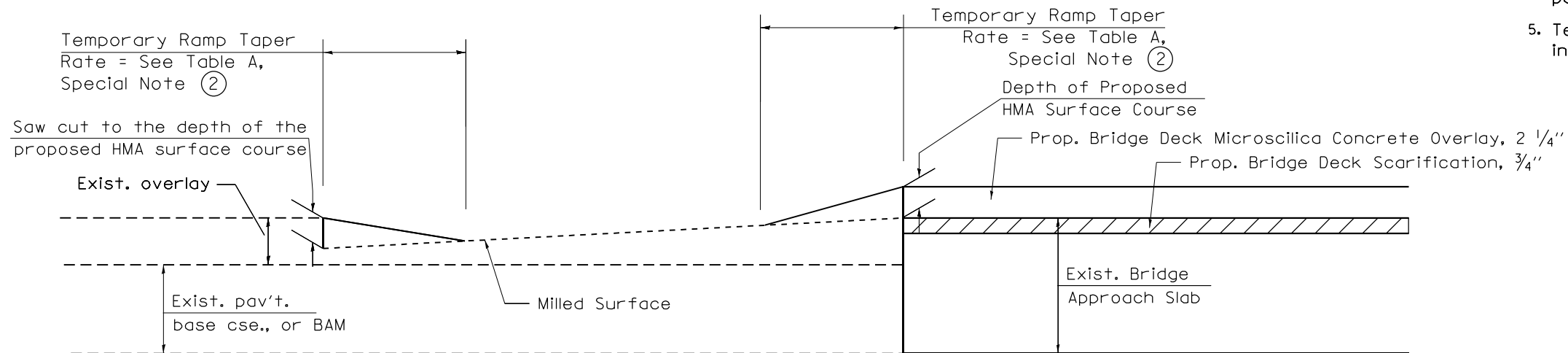
CASE 1: TEMPORARY RAMP DETAIL



GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
- The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
- Temporary ramps are paid for separately and not included in the cost of the butt joints.

CASE 2: TEMPORARY RAMP DETAIL



All dimensions are in inches (millimeters) unless otherwise noted.

DISTRICT 4 DETAIL NO. 406101 MODIFIED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	64
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS		FED. AID PROJECT		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND TEMPORARY RAMP DETAILS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

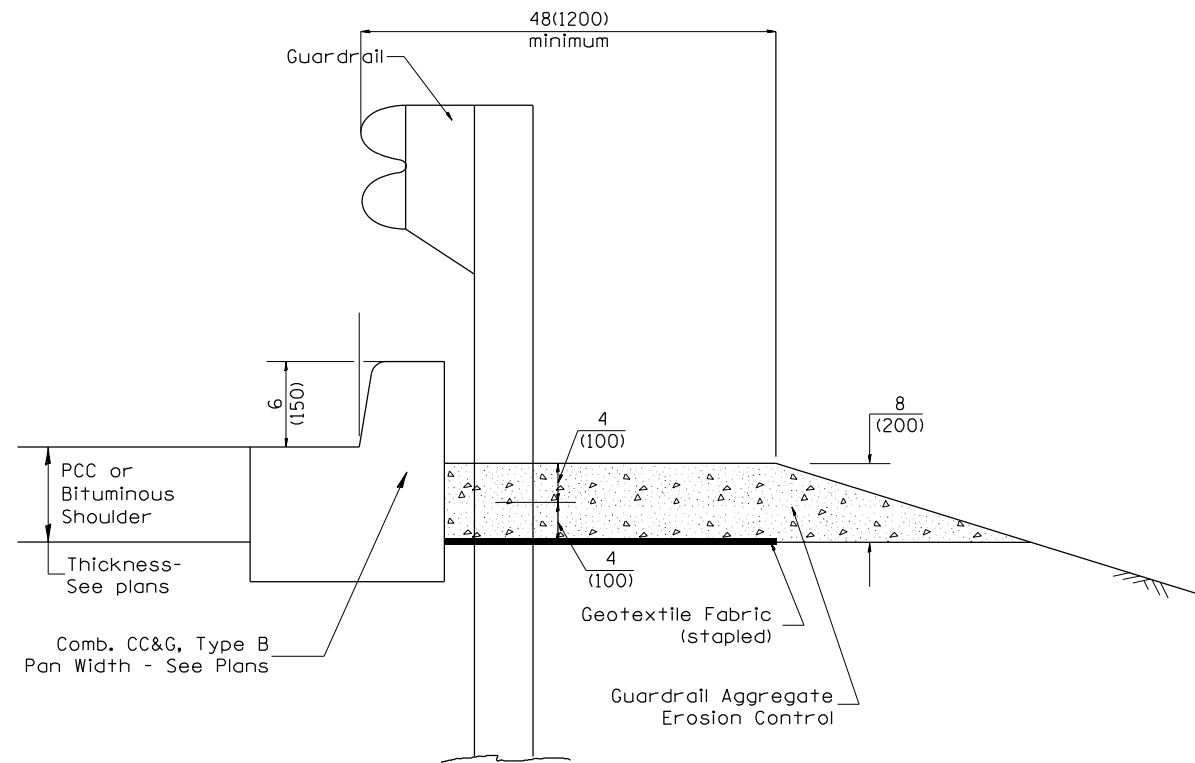


TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

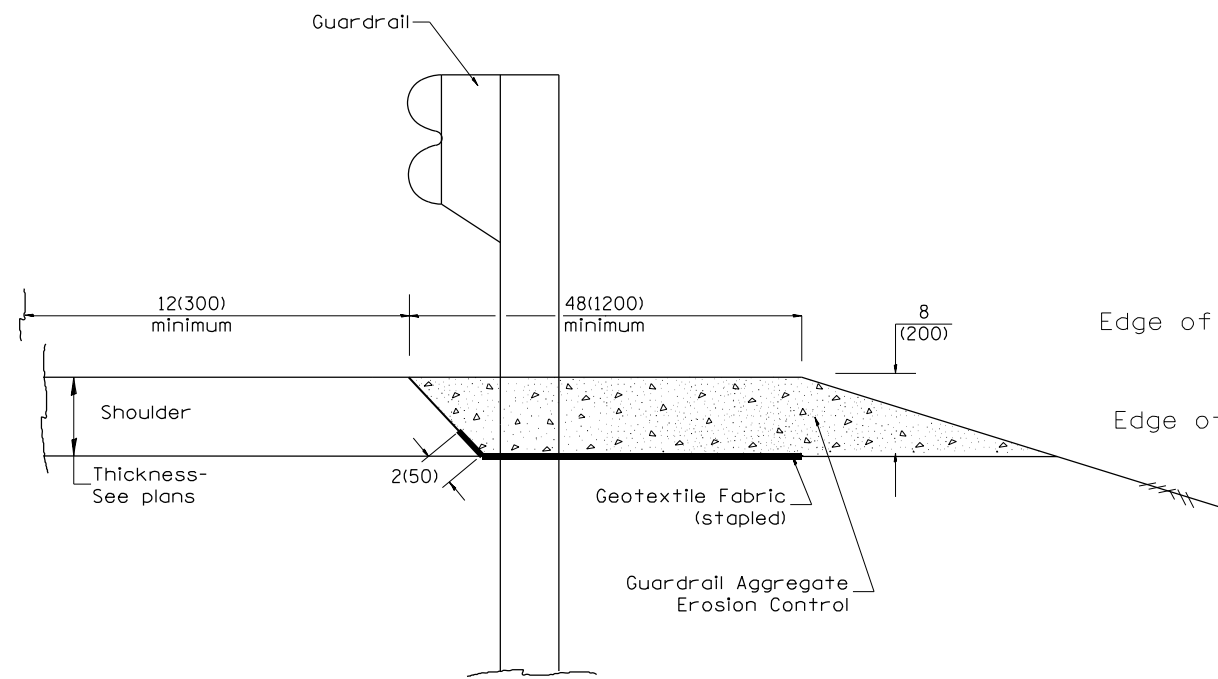
USER NAME = \$USERS
DESIGNED -
DRAWN -
CHECKED -
DATE -
PLOT SCALE = 1:100
PLOT DATE = 8/23/2023

REVISOR -
REVISION -
REVISOR -
REVISION -

MODEL Path: \\...
FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Admin\Contractor\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correctional\CADD Files\CADD Sheets\0468G39-sh-butt-joint_standards.dgn



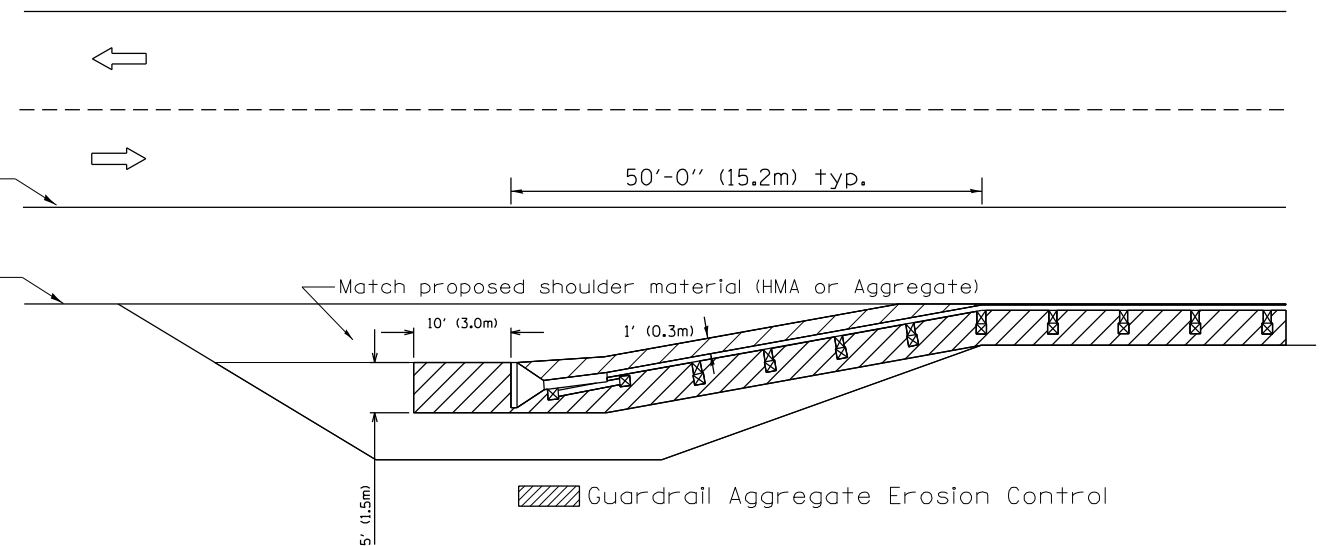
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

DISTRICT 4 DETAIL NO. 630101

MODEL Path: \\TWM\Projects\68G39 - Alton\Contractor\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrections\CADD Files\CADD Sheets\68G39-sh-guardrail_erosion_control_treatments_standard.dgn



TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM
LICENSE NO: 184-001220
USER NAME = \$USERS
PLOT SCALE = 1:100
PLOT DATE = 8/23/2023

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

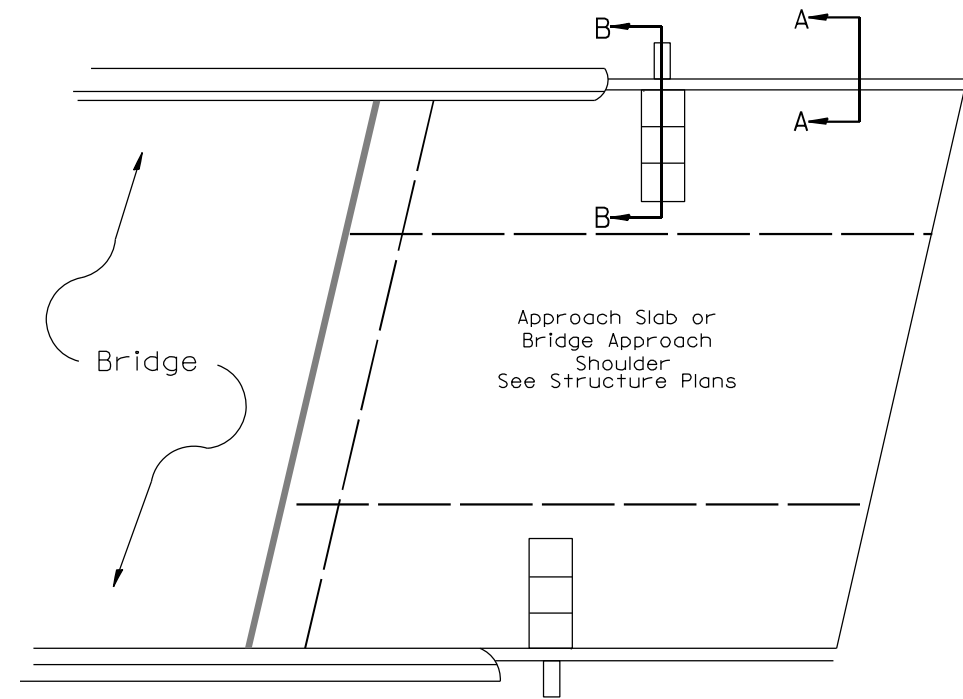
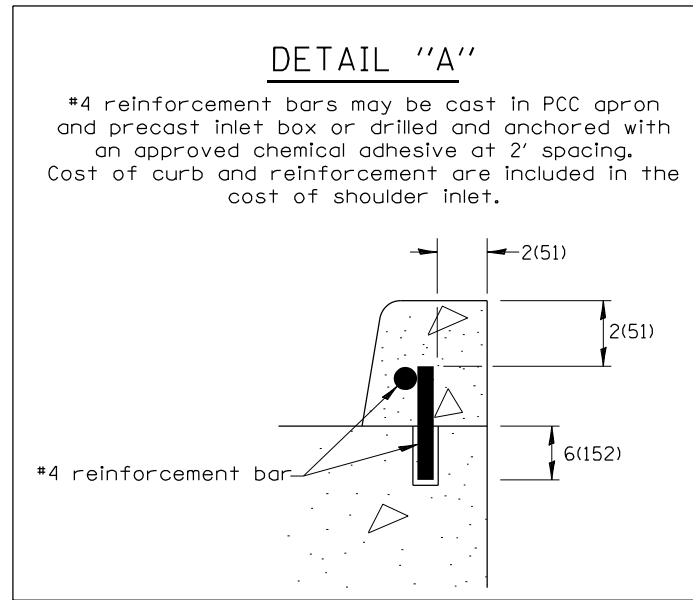
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL EROSION CONTROL TREATMENTS

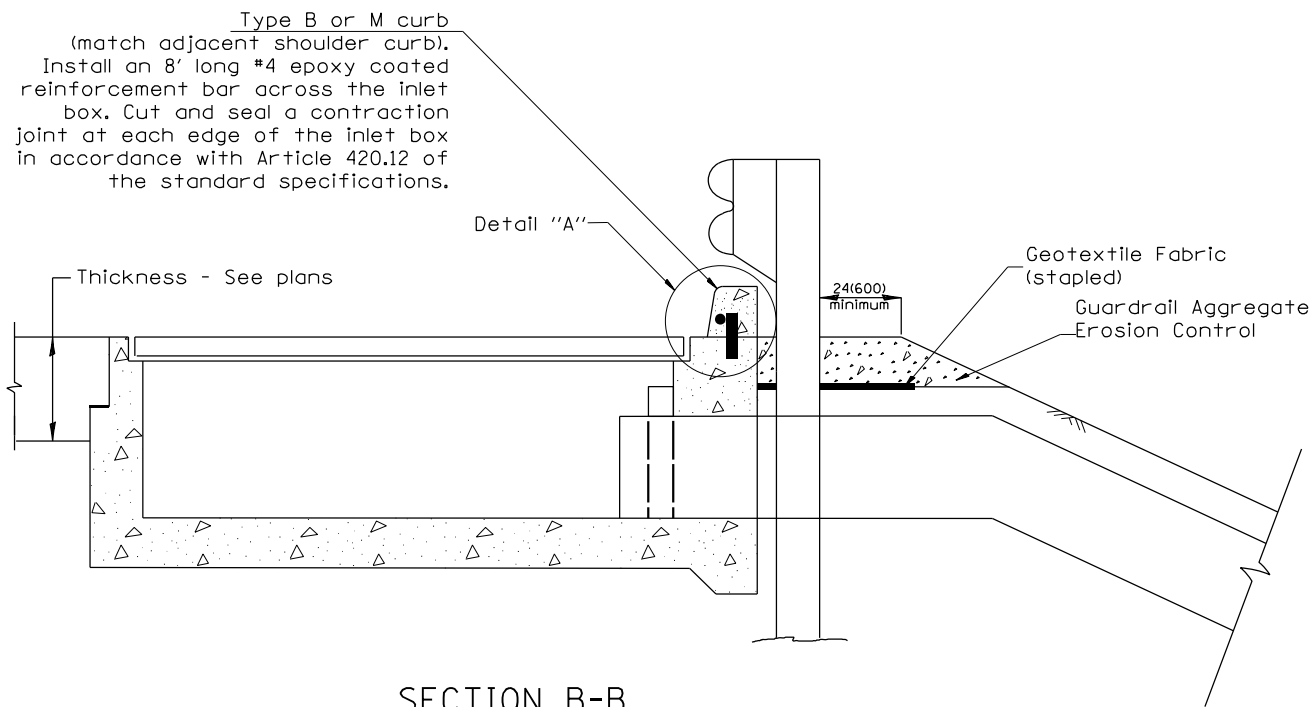
SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	65
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

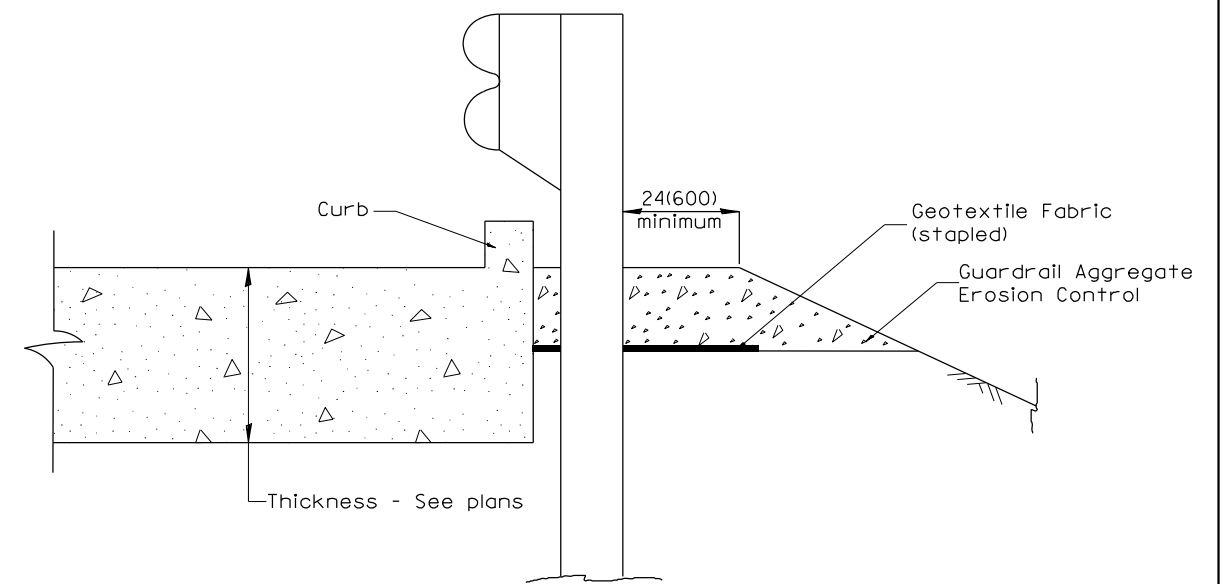
MODEL Path: \\... TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Files\CADD Sheets\68G39-sh-shoulder erosion control treatments standard.dgn
 FILE NAME: C:\PROJECTS\EXCEL\Studies & Plans\Squad 9 - Alton\Contract\68G39 Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Files\CADD Sheets\68G39-sh-shoulder erosion control treatments standard.dgn



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches (millimeters) unless otherwise noted.



TWM, INC.
 WWW.TWM-INC.COM
 IL DESIGN FIRM LICENSE NO: 184-001220
 USER NAME = \$USERS
 PLOT SCALE = 1:100
 PLOT DATE = 8/23/2023

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

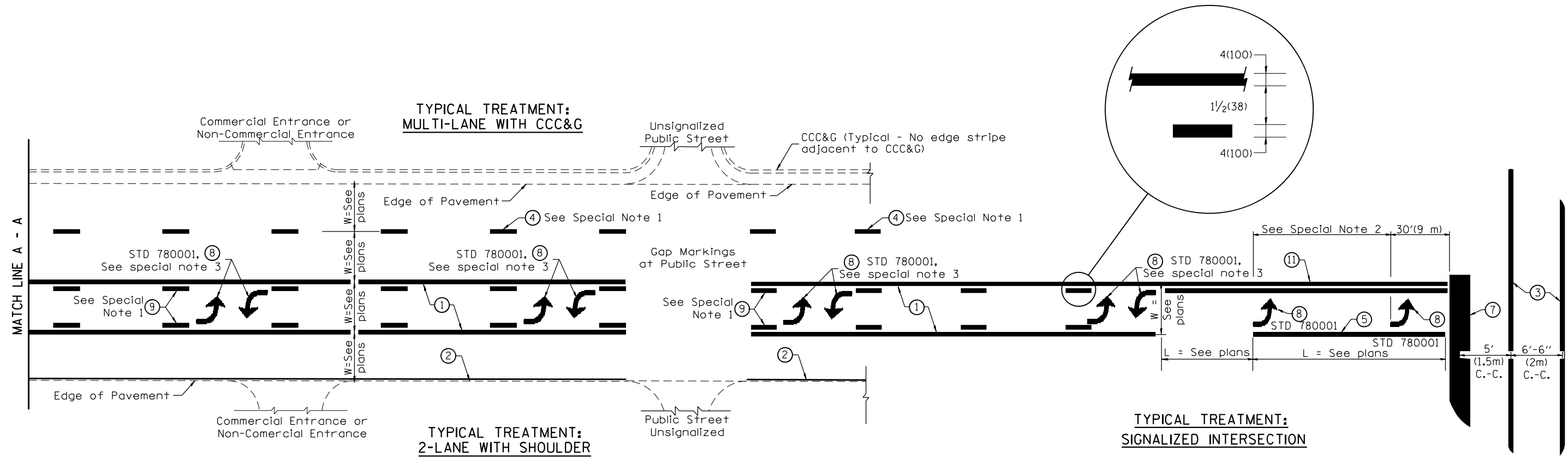
GUARDRAIL EROSION CONTROL TREATMENTS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

DISTRICT 4 DETAIL NO. 630101

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	66
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\... \Public\Projects\68G39 - Admin\Contractor\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-2023\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-shr-typical pavement markings standards.dgn
 FILE NAME: C:\PDD\GENEXCEL\Studies & Plans\Squad 9 - Admin\Contractor\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-2023\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-shr-typical pavement markings standards.dgn



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND
 (Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) ⑩
- ⑪ 4(100) Double Solid (Yellow) ⑪

SPECIAL NOTES

- Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
- The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
- The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

- Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
- Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
- Areas are grooved 1" beyond each edge for the following symbols:
 Through Arrow= 14.8 sq. ft.
 Large Left or Right Arrow= 21.9 sq. ft.
 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
 Wrong Way Arrow= 29.5 sq. ft.
 Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)



USER NAME = sUSERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

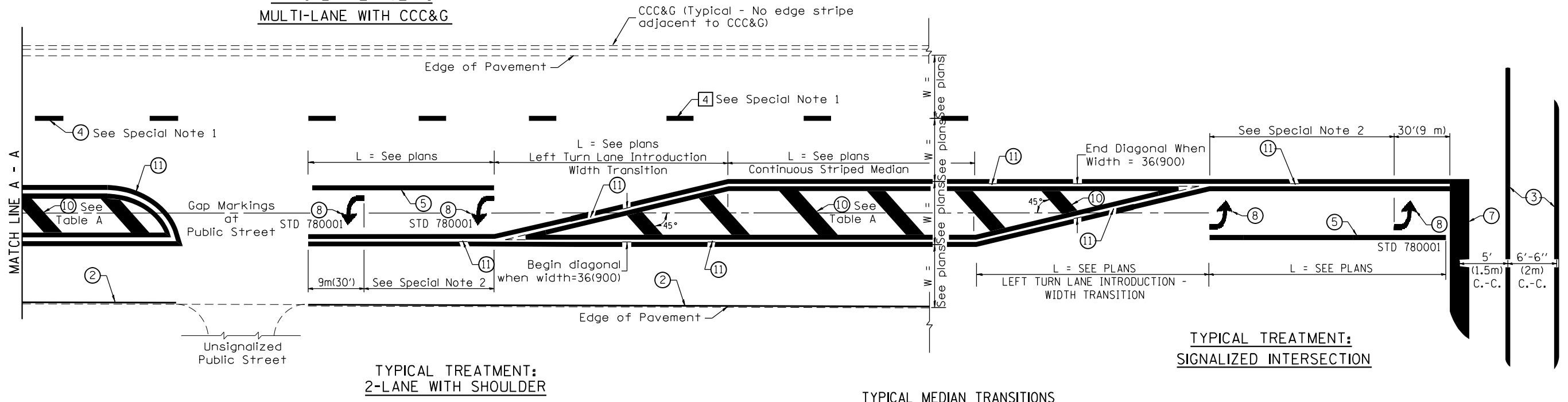
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL PAVEMENT MARKINGS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

DISTRICT 4 DETAIL NO. 780001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	67
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

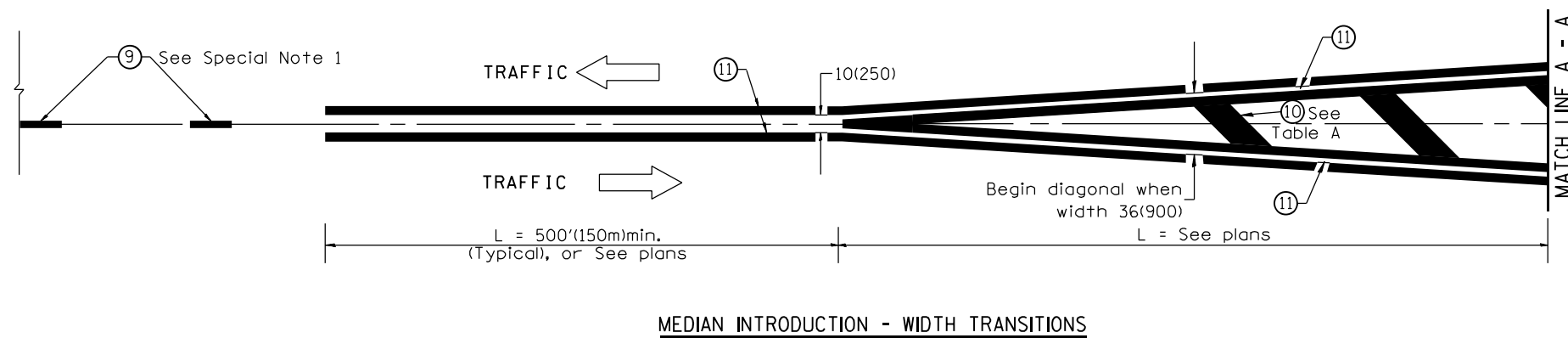
**TYPICAL TREATMENT:
MULTI-LANE WITH CCC&G**



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

**TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES**

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



All dimensions are in inches (millimeters) unless otherwise noted.

MODEL Path: C:\Users\Public\Documents\TWM\Projects\68G39\Bridges\Preservation - TWM\Consultant\Consultant Final\Submittal_727231\DOT_Corrections\CADD_Files\CADD_Sheets\68G39-shr-typical pavement markings_standard.dgn



TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO: 184-001220
USER NAME = \$USERS
PLOT SCALE = 1:100
PLOT DATE = 8/23/2023

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

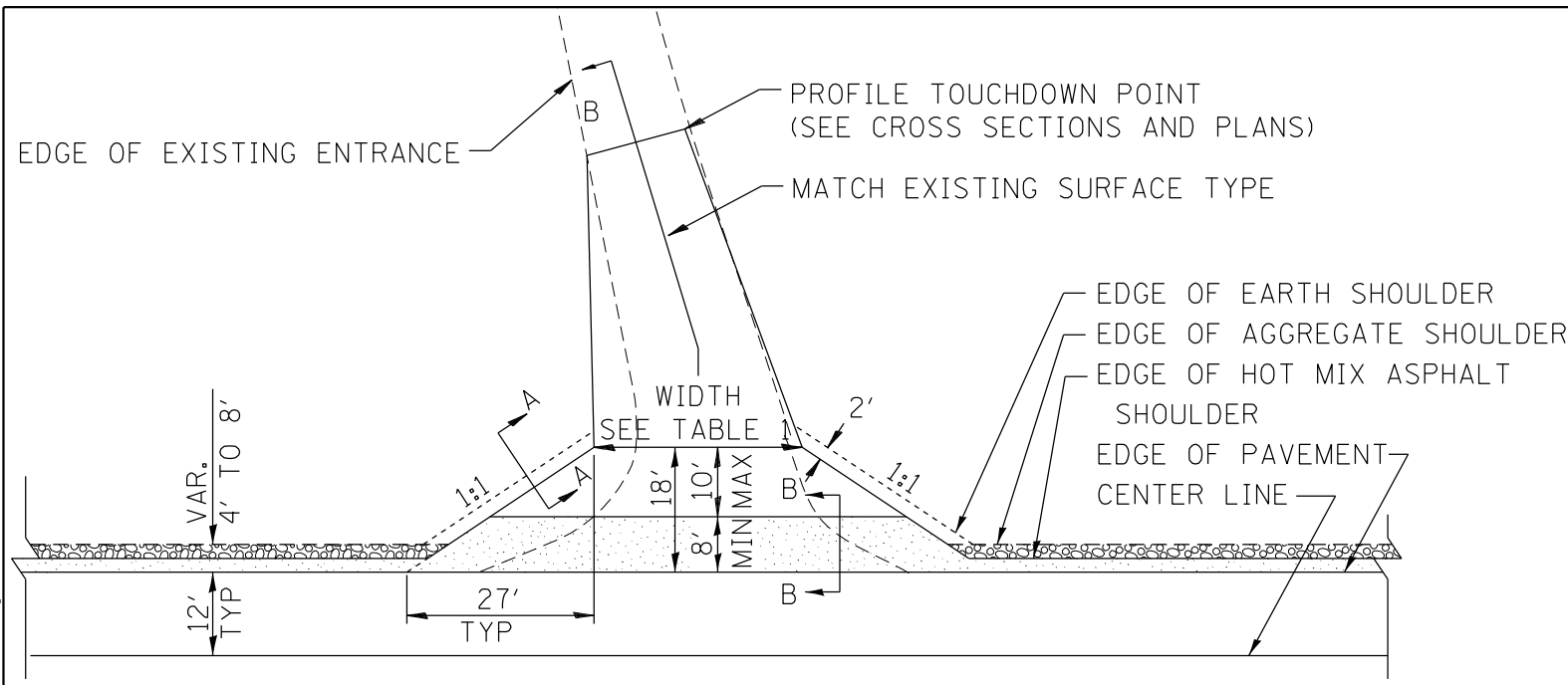
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL PAVEMENT MARKINGS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

DISTRICT 4 DETAIL NO. 780001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	68
*(3B-BR, BR-1; (104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				



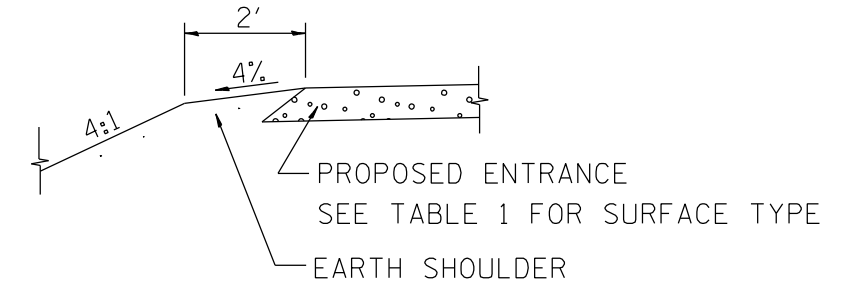
HOT MIX ASPHALT SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

COMMERCIAL / FARM-RELATED ENTRANCE

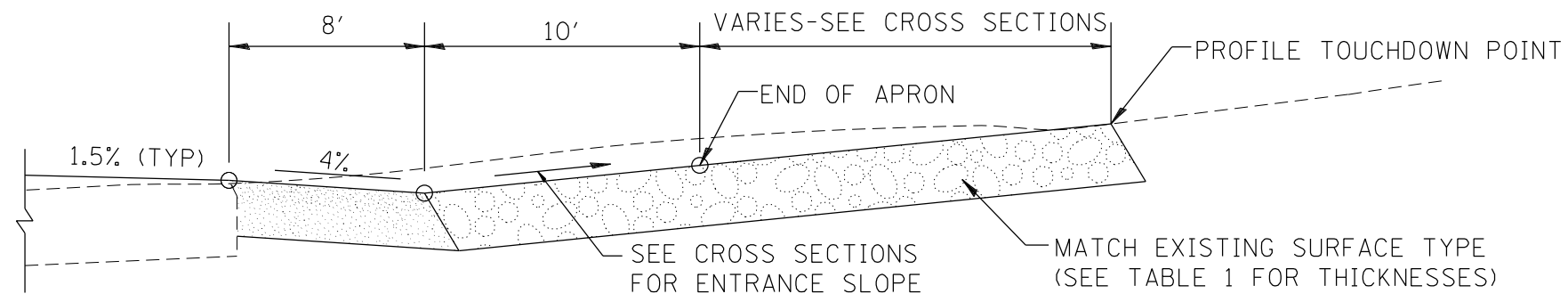
TABLE 1					
RURAL ENTRANCE DESIGN					
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
				1-WAY OPERATION	2-WAY OPERATION
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	14'(4.3m) Min., 24'(7.2m) Max., 24'(7.2m) Min., 35'(10.7m) Max.
FLARE	1:1.5				
MAX. GRADE (G)	12%		12%		10%

SURFACE TYPE			
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"
AGGREGATE SURFACE COURSE	6"	8"	—
PCC DRIVEWAY PAVEMENT	6"	—	7"



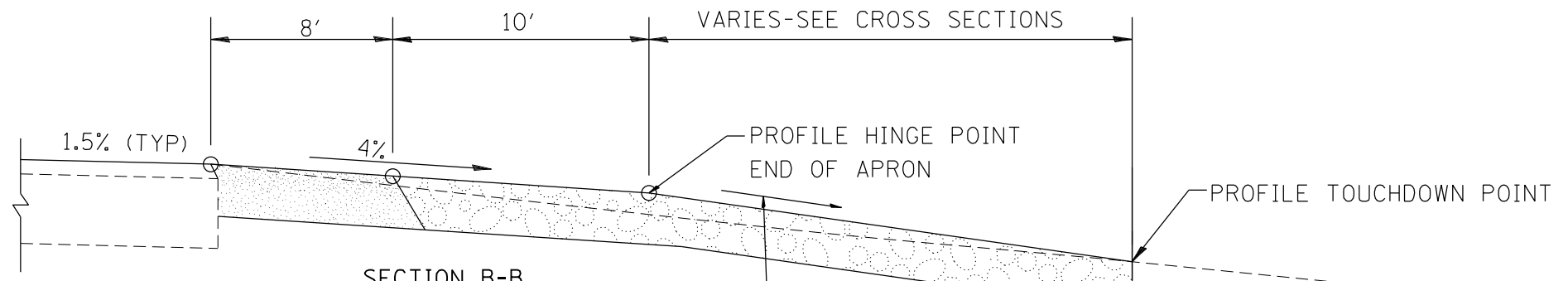
SECTION A-A

SHOULDER TREATMENT FOR RURAL ENTRANCES



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

All dimensions are in inches (millimeters) unless otherwise noted.

DISTRICT 4 DETAIL NO. 406301



TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM LICENSE NO: 184-001220

USER NAME = \$USERS
DESIGNED -
DRAWN -
CHECKED -
DATE -
PLOT SCALE = 1:100
PLOT DATE = 8/23/2023

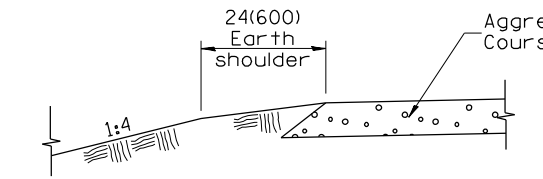
REVISOR -
REVISION -
REVISION -
REVISION -
REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

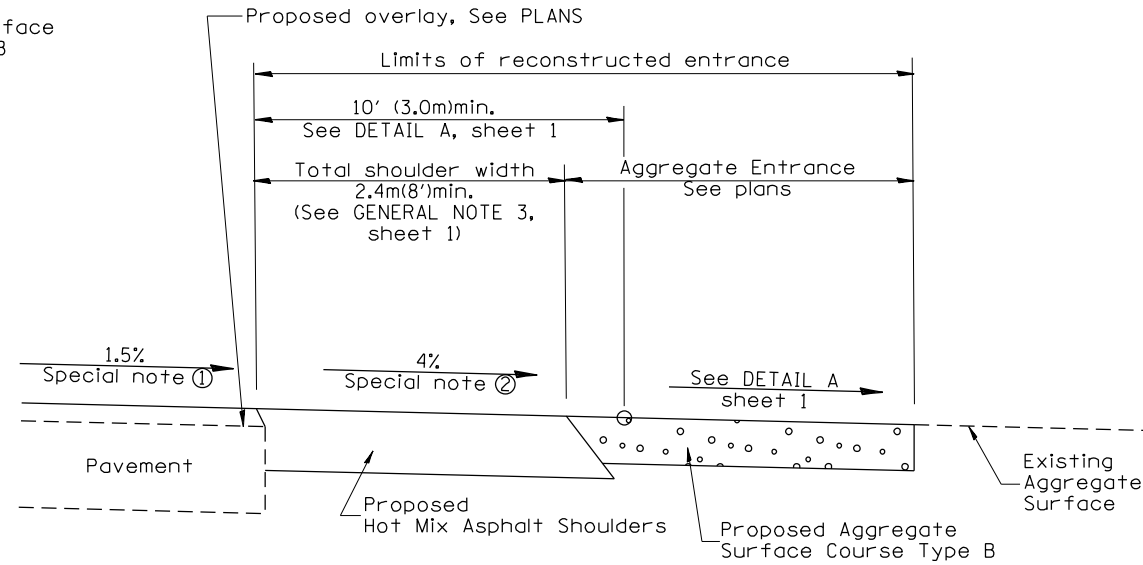
RURAL ENTRANCES FOR "3R" PROJECTS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

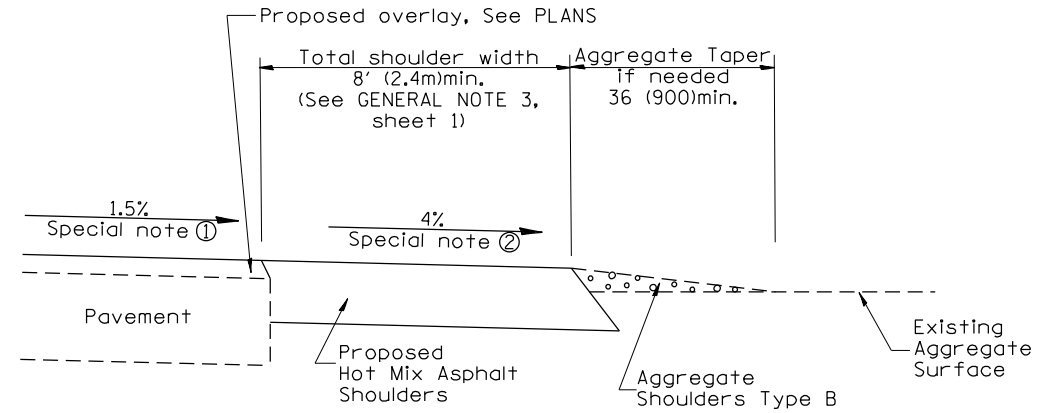
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	69
*(3B-BR, BR-1; 104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				



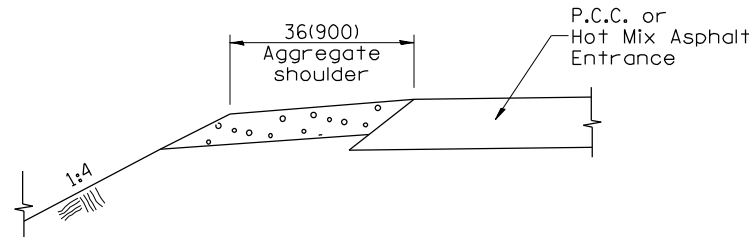
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



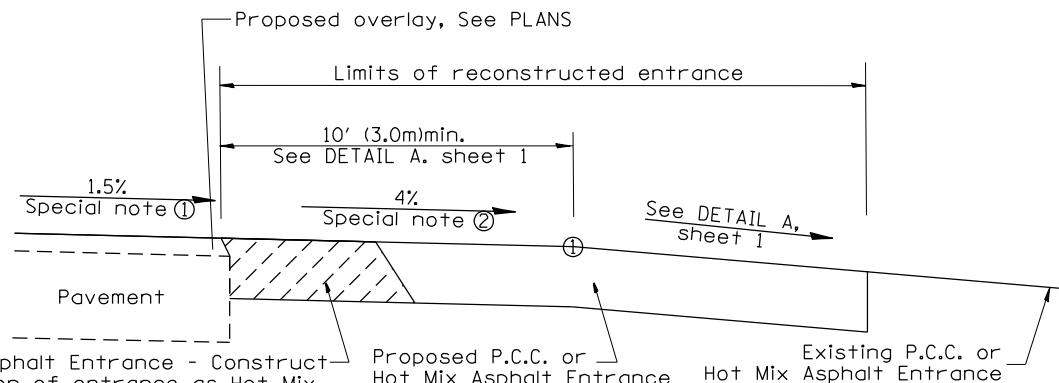
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



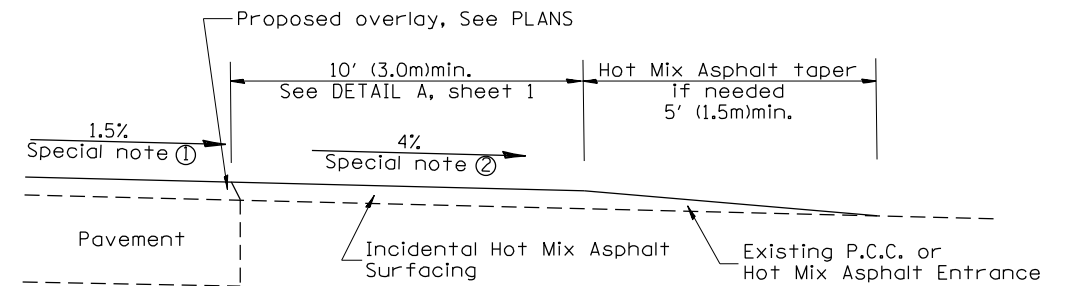
SECTION B-B
EXISTING AGGREGATE ENTRANCE



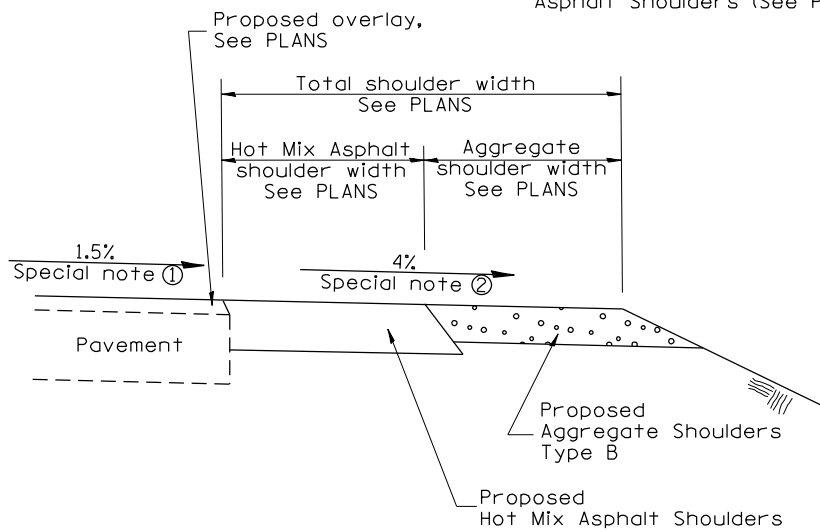
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



SECTION D-D
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION E-E
MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All dimensions are in inches (millimeters) unless otherwise noted.

DISTRICT 4 DETAIL NO. 406301

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	70
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR				
CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RURAL ENTRANCES FOR "3R" PROJECTS

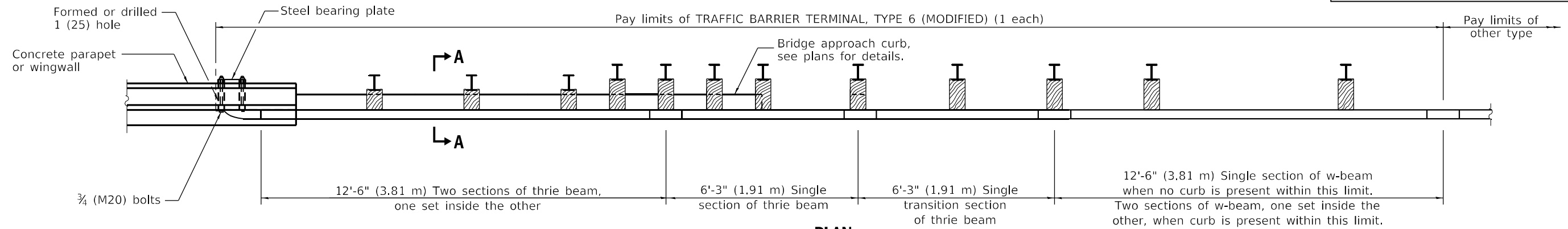
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.



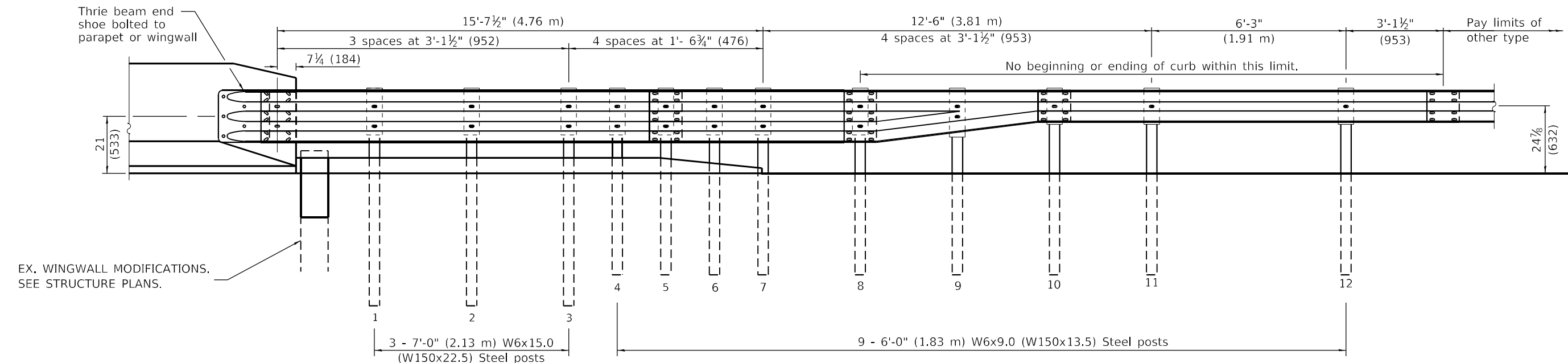
TWM, INC.
www.twm-inc.com
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME = \$USERS	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 8/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

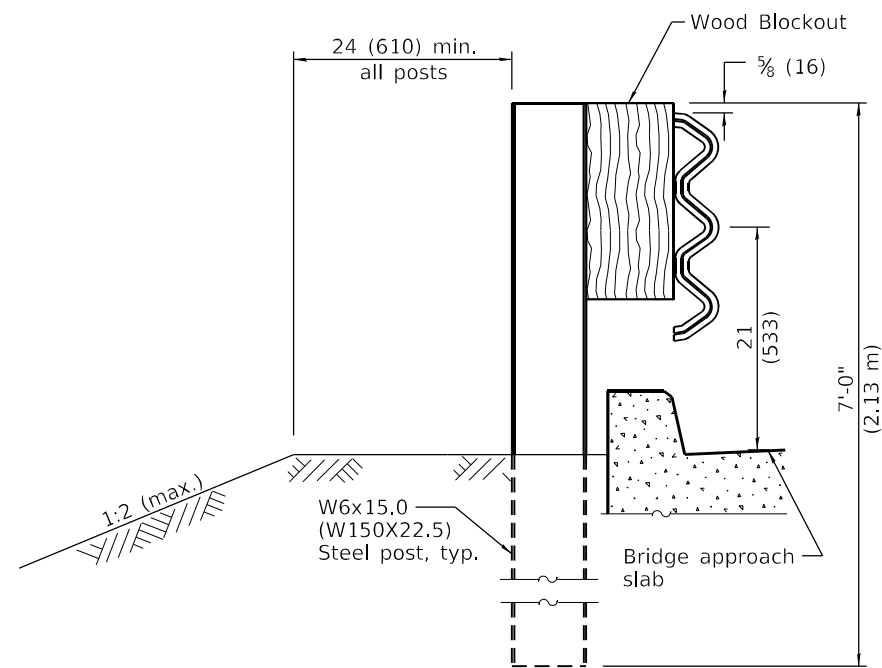
PARAPET OR WINGWALL



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

- See Standard 630001 for details of guardrail not shown.
- Thrie beam rail shall be bolted to block-out at all posts.
- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
- All dimensions are in inches (millimeters) unless otherwise shown.

STANDARD 631031-18 (MODIFIED)

MODEL Path: \\TWM\Projects\68G39\Bridges\Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Corrected\CADD Files\CADD Sheets\68G39-sh-1-TrafficBarrierType6.dgn

TWM
ENGINEERING
GEOSPATIAL SERVICES

TWM, INC.
www.twm-inc.com
IL DESIGN FIRM
LICENSE NO:
184-001220

USER NAME = \$USERS	DESIGNED -	REVISD -
PLOT SCALE = 1:0.166667	DRAWN -	REVISD -
PLOT DATE = 8/23/2023	CHECKED -	REVISD -
	DATE -	REVISD -

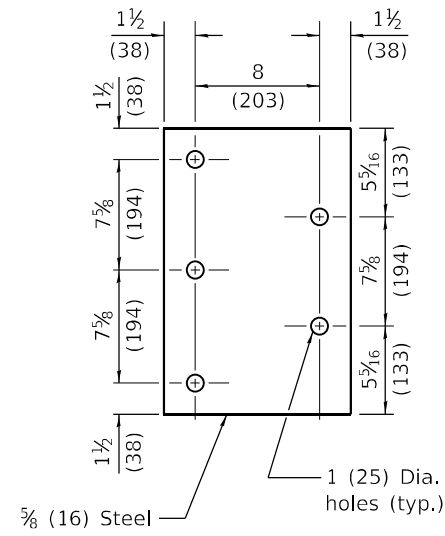
DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)

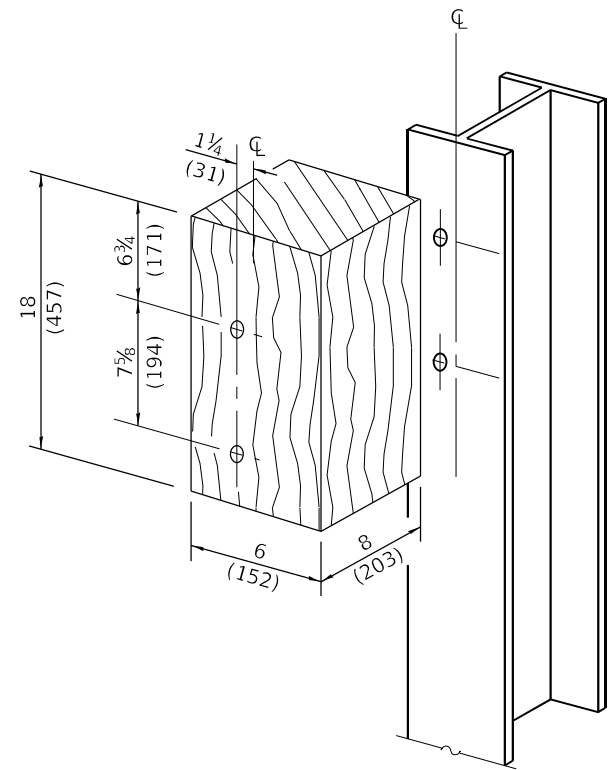
SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	71
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR			CONTRACT NO. 68G39	
ILLINOIS FED. AID PROJECT				

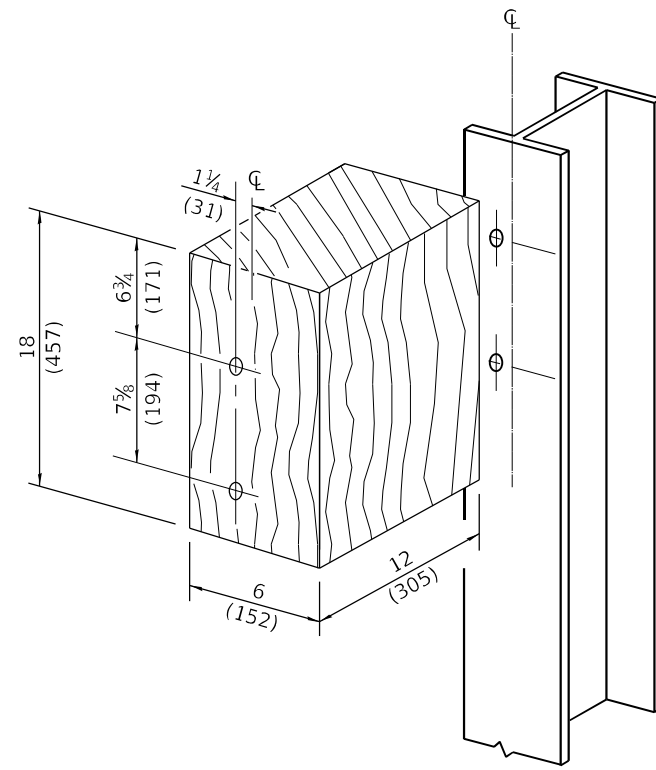


STEEL BEARING PLATE FOR F-SHAPE PARAPET

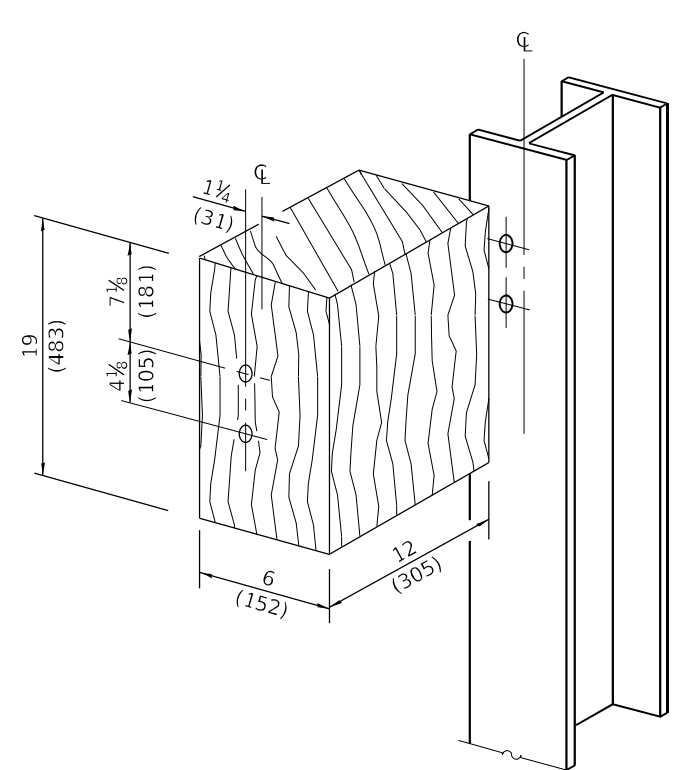
(5 each individual 5x5x5/8 (125x125x16) steel plates with centered 1 (25) holes may be substituted for the plate shown.)



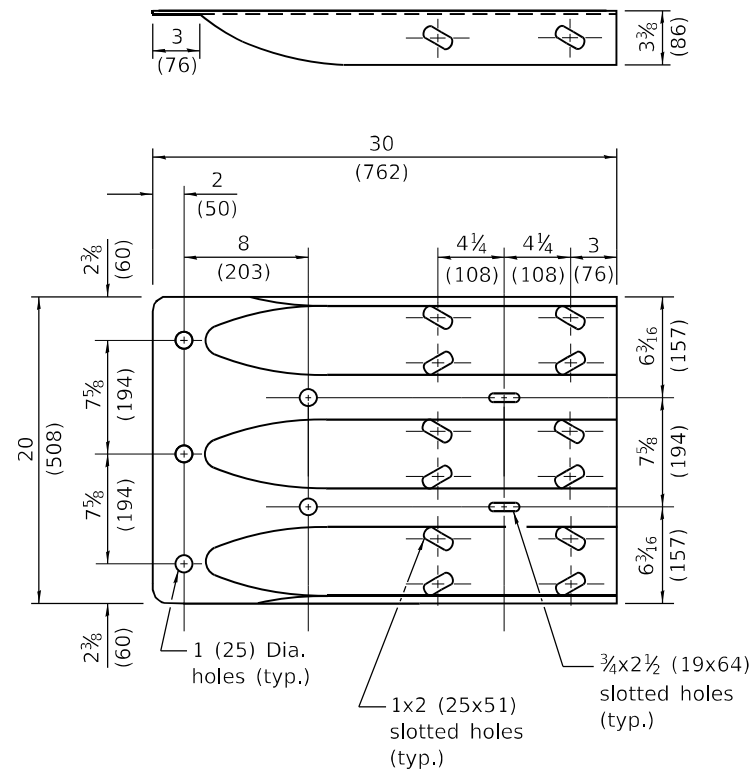
POSTS 1-6 WOOD BLOCKOUT DETAIL



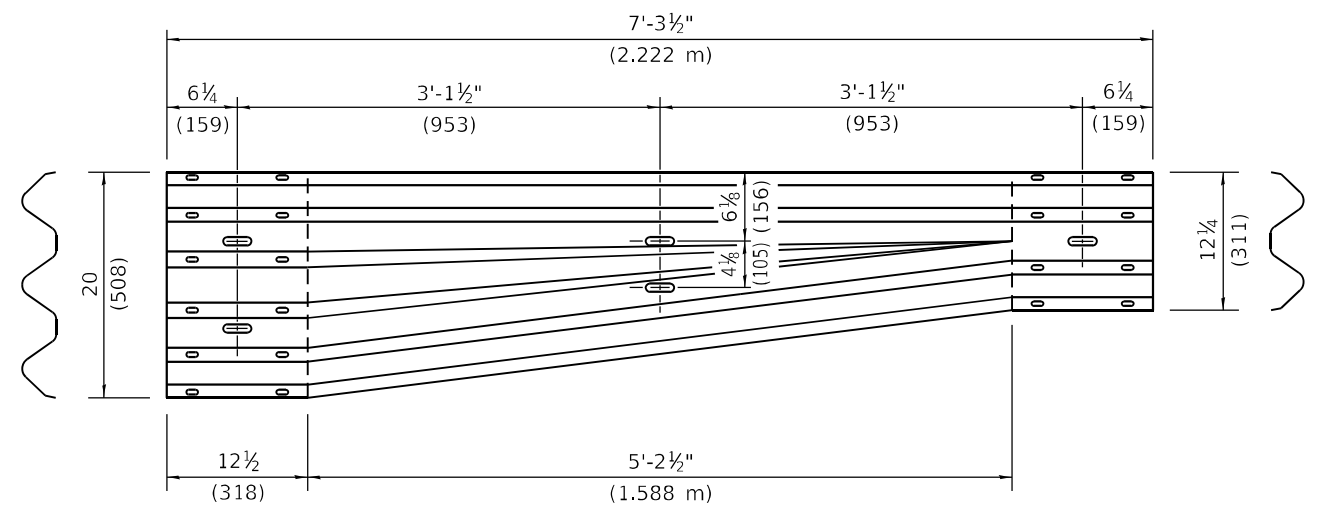
POSTS 7-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



THRIE BEAM END SHOE DETAIL



TRANSITION SECTION
(10 gauge (3.4) rail element)

STANDARD 631031-18 (MODIFIED)

MODEL Path: C:\Users\jgarcia\OneDrive\Documents\Projects\68G39 - Admin\Contract\68G39 - Bridge Preservation - TWM\Consultant\Consultant Final Submittal 7-27-23\DOT Correction\CADD Files\CADD Sheets\68G39-Sub-TerBarTermType6.dgn



TWM, INC.
www.twm-inc.com
ILLINOIS DESIGN FIRM LICENSE NO: 184-001220
USER NAME = \$USERS
PLOT SCALE = 1:0.166667
PLOT DATE = 8/23/2023

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	*	MARSHALL	72	72
*(3B-BR, BR-1;(104b)BR-1)BDR, BRR CONTRACT NO. 68G39				
ILLINOIS FED. AID PROJECT				