

027

FOR INDEX OF SHEETS, SEE SHEET NO. 2

03-08-2019 LETTING ITEM 027

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

PROJECT LOCATED IN VILLAGES OF ELMHURST, OAK BROOK, AND OAK BROOK TERRACE.

TRAFFIC DATA

IL 38 (ROOSEVELT RD)

2017 ADT = 55,700

POSTED SPEED = 55 MPH

OTHER PRINCIPAL ARTERIAL

IL 38 N FRONTAGE ROAD (BRUSH HILL RD)

2016 ADT = 3,950

POSTED SPEED 35 MPH

MAJOR COLLECTOR

FAP RTE 347: IL 38 (ROOSEVELT RD)
AT SALT CREEK (0.6 MILES EAST OF IL 83) AND
FAU RTE 550: IL 38 N FRONTAGE RD (BRUSH HILL RD)
AT SALT CREEK (0.3 MILES EAST OF BUTTERFILED RD)
SECTION 2018-044-BD&BJR
PROJECT NHPP-STP-FBUW(189)
BRIDGE DECK OVERLAY & JOINT REPAIR
DUPAGE COUNTY

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018 044 BD&BJR	DUPAGE	74	1
			CONTRACT NO. 62H04		

D-91-366-18



HBM ENGINEERING GROUP, LLC
ROBERT T. BORO, P.E.
#062-043749

Robert T. Boro

DATE: 11/30/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
1-11 AND 24-27

EXPIRATION DATE: 11-30-2019



HBM ENGINEERING GROUP, LLC
MOUSSA A. ISSA, PH.D., P.E., S.E.
#081-005738

Moussa A. Issa

DATE: 11/30/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
33-66

EXPIRATION DATE: 11-30-2020



ACCURATE GROUP, INC.
LISA REBECCA CHRZASC, P.E.
#062-067628

Lisa Rebecca Chrzasz

DATE: 11/30/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
12-23

EXPIRATION DATE: 11-30-2019



GANDHI & ASSOCIATES, INC.
PETER VANDEMOTTER, P.E.
#062-043463

Peter VanDemotter

DATE: 11/30/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
28-32

EXPIRATION DATE: 11-30-2019



C-91-290-18
R11E



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
1-800-802-8123
OR 811

PROJECT MANAGER FAWAD AQUEEL, PE, PTOE (847) 705-4247

CONTRACT NO. 62H04

LOCATION MAP NOT TO SCALE
GROSS LENGTH = NET LENGTH = 335.74 FT. = 0.06 MILE

N
↑
N
↑
N

HBM
ENGINEERING GROUP, LLC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *December 6, 2018*

Anthony J. Quinley
REGISTERED ENGINEER

Feb 19 2019
ENGINEER OF DESIGN AND ENVIRONMENT

Paul J. Ch...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1 COVER SHEET
 2 INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
 3-8 SUMMARY OF QUANTITIES
 9 TYPICAL SECTIONS
 10 REMOVAL PLAN
 11 PROPOSED PLAN
 12-23 MAINTENANCE OF TRAFFIC
 24 EROSION CONTROL PLAN
 25-26 PAVEMENT MARKING PLAN
 27 LANDSCAPING PLAN
 28-32 TRAFFIC SIGNAL PLANS
 33-52 STRUCTURAL PLANS (S.N. 022-0026)
 53-66 STRUCTURAL PLANS (S.N. 022-0028)
 67 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
 68 HMA JOINT AND HMA TAPER DETAILS (BD-32)
 69 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
 70 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
 71-72 MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)
 73 TYPICAL PAVEMENT MARKINGS (TC-13)
 74 ARTERIAL ROAD INFO SIGN (TC-22)

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701423-10	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES, 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITIES OF ELMHURST, OAKBROOK AND OAKBROOK TERRACE.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD, FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER, AT Don.chiarugi@illinois.gov A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR IS REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT

THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL."

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

RAISED REFLECTIVE PAVEMENT MARKERS ARE NOT ALLOWED TO BE PLACED ON THE BRIDGE DECK.

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION, COST INCLUDED IN THE COST OF "TRAFFIC BARRIER TERMINAL, TYPE 5" AND "TRAFFIC BARRIER TERMINAL, TYPE 6".

THE CONTRACTOR SHALL CONTACT THE FOREST PRESERVE DISTRICT OF DUPAGE COUNTY (FPDDC) AT (630) 933-7200 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK. THE FPDDC SALT CREEK GREENWAY TRAIL PASSES UNDER THE WEST SPAN OF BOTH BRIDGES. THE TRAIL UNDER THE BRIDGE SHALL BE CLOSED WHEN WORK IS OCCURRING THAT MAY BE DEEMED HAZARDOUS BY THE ENGINEER TO PEDESTRIANS BELOW THE BRIDGE. CLOSURES OF THE TRAIL MAY ONLY OCCUR SUNDAY THROUGH THURSDAY NIGHTS BETWEEN SUNSET AND 6:30 AM

THE CONTRACTOR SHALL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING ANY FORESTRY WORK FOR LAYOUT.

MODEL: Default
 FILE NAME: P:\17102746 DDT District 1\W0_10_IL389Salt Creek\Sheets\1621044-SHT02-Abr.ecadgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/10/2018	DATE - 12/07/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
 IL 38 (ROOSEVELT RD) OVER SALT CREEK**

SCALE: 40,0000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	2
				CONTRACT NO. 62H04	
				ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE			
				NHPP		STP	
				ROADWAY 0059 URBAN		ROADWAY 0059 URBAN	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20	20			
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	7	7			
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	7	7			
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	7	7			
20200100	EARTH EXCAVATION	CU YD	40	40			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	311	311			
25000210	SEEDING, CLASS 2A	ACRE	0.07	0.07			
25100630	EROSION CONTROL BLANKET	SQ YD	311	311			
28000400	PERIMETER EROSION BARRIER	FOOT	268	268			
28000500	INLET AND PIPE PROTECTION	EACH	2	2			
28100109	STONE RIPRAP, CLASS A5	SQ YD	110	110			
28200200	FILTER FABRIC	SQ YD	110	110			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	885	708		177	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	401	151		250	

* SPECIALTY ITEM
** 0042

REV. - MS

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\NO. 10 IL388\Salt Creek\Sheets\162H04-SHT03-5001.dgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/07/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 38 (ROOSEVELT RD) OVER SALT CREEK

SCALE: 40.0000' / in. SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	3
					CONTRACT NO. 62H04
[ILLINOIS] FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE			
				NHPP		STP	
				ROADWAY 0059 URBAN		ROADWAY 0059 URBAN	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	577	577			
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	194	155		39	
50102400	CONCRETE REMOVAL	CU YD	62.7	35.2		27.5	
50104650	SLOPE WALL REMOVAL	SQ YD	75	75			
50300225	CONCRETE STRUCTURES	CU YD	0.6	0.6			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	68.1	38.5		29.6	
50300260	BRIDGE DECK GROOVING	SQ YD	1993	1454		539	
50300300	PROTECTIVE COAT	SQ YD	181	137		44	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	12400	12400			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8040	5040		3000	
50800515	BAR SPLICERS	EACH	94	52		42	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	330	250		80	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	32	32			
52100520	ANCHOR BOLTS, 1"	EACH	64	64			

* SPECIALTY ITEM
** 0042

REV. - MS

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\NO. 10 IL389\Salt Creek\Sheets\162H04-SHT03-50018.dgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/07/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 38 (ROOSEVELT RD) OVER SALT CREEK**

SCALE: 40.0000' / in. SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	4
					CONTRACT NO. 62H04
[ILLINOIS] FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE			
				NHPP		STP	
				ROADWAY 0059 URBAN		ROADWAY 0059 URBAN	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	10	10			
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4			
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	301	301			
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	3	2		1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	2		1	
63200310	GUARDRAIL REMOVAL	FOOT	213	132		81	
* 63301225	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE D	FOOT	25	25			
* 63301235	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	25	25			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	4		2	
67100100	MOBILIZATION	L SUM	1.0	0.75		0.25	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6			6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28		28	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	20052	17083		2969	
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	1510	1510			

* SPECIALTY ITEM
** 0042

REV. - MS

MODEL: D:\p11710-746 IDOT District 1\170-10 IL388\Salt Creek\Sheets\162H04-SHT04-5002.dgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/07/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 38 (ROOSEVELT RD) OVER SALT CREEK

SCALE: 40.0000' / in SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	5
					CONTRACT NO. 62H04
[ILLINOIS] FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE			
				NHPP		STP	
				ROADWAY 0059 URBAN		ROADWAY 0059 URBAN	
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	87			87	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1662.5	1175		487.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1587.5	1100		487.5	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2		2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2		2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7023	4586		2437	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	3023	3023			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	255	255			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	16			
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	264	264			
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	6	4		2	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	137	96		41	
* 89000050	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
X0100018	TREE REMOVAL (UNDER 6 UNITS DIAMETER)	UNIT	5	5			

* SPECIALTY ITEM

** 0042

REV. - MS

MODEL: D:\p11710-746 IDOT District 1\W010 IL38\SS\162104-SHT04-SHT04-50028.dgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/07/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 38 (ROOSEVELT RD) OVER SALT CREEK

SCALE: 40.0000' / in SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	6
					CONTRACT NO. 62H04
ILLINOIS FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE			
				NHPP		STP	
				ROADWAY 0059 URBAN		ROADWAY 0059 URBAN	
* X0326276	TEMPORARY LIGHTING FOR SINGLE LANE STAGING	L SUM	1			1	
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	170	170			
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5796	4931		865	
* X2700003	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	2464	1977		487	
* X2700004	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	2464	1977		487	
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	301	301			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.87		0.13	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	7921	6757		1164	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	597	441		156	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	218	218			
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	6.3	2.3		4	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	32	32			
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	6660	6660			
Z0001905	STRUCTURAL STEEL REPAIR	POUND	1800	1800			

* SPECIALTY ITEM
** 0042

REV. - MS

MODEL: D:\p11710-746 IDOT District 1\17010 IL388\Salt Creek\Sheets\162H04-SHT05-5003.dgn



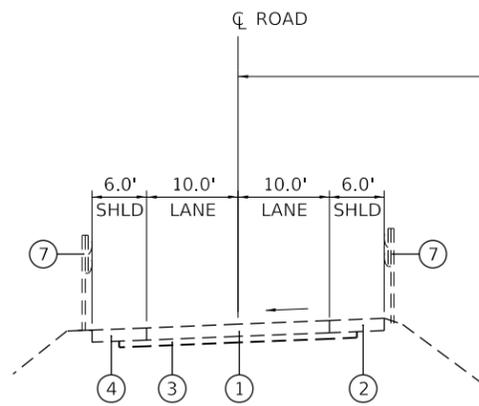
USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2018	DATE - 12/07/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 38 (ROOSEVELT RD) OVER SALT CREEK

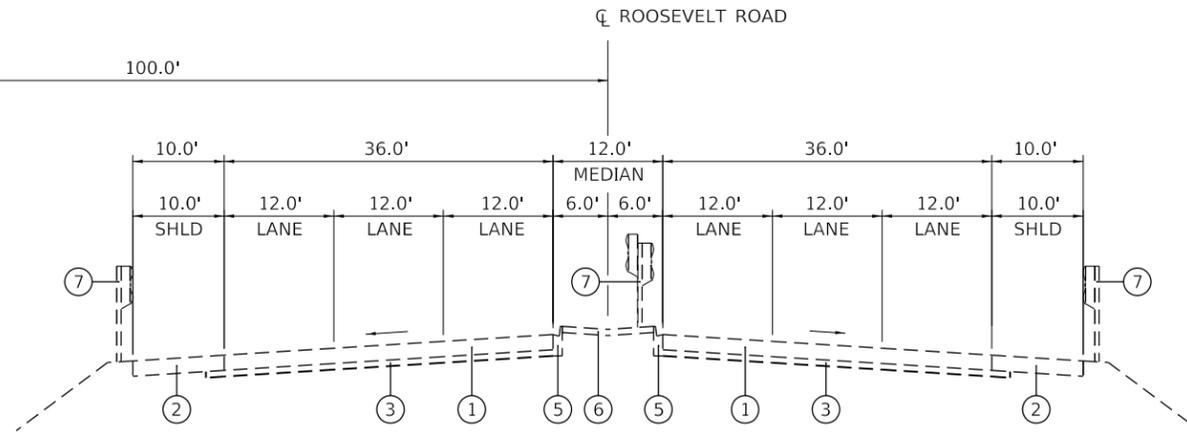
SCALE: 40.0000' / in SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	7
					CONTRACT NO. 62H04
(ILLINOIS) FED. AID PROJECT					



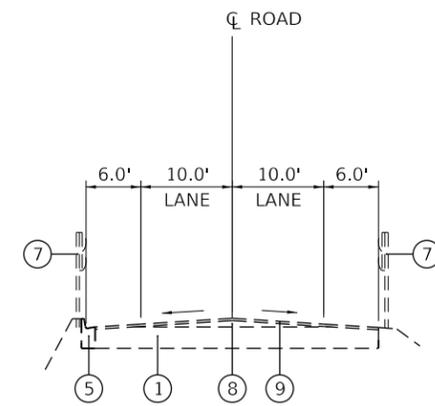
**N. FRONTAGE ROAD
(BRUSH HILL ROAD)
WEST APPROACH
EXISTING TYPICAL SECTION**

(STA. 155+35.38 TO STA. 155+90.38)



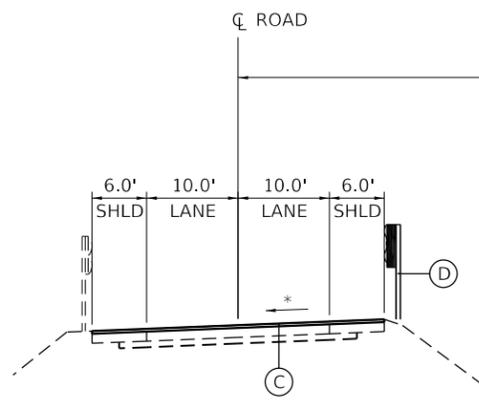
**ROOSEVELT ROAD - MAINLINE
EXISTING TYPICAL SECTION**

(STA. 154+71.68 TO STA. 155+94.62)
(STA. 156+80.98 TO STA. 158+03.32)



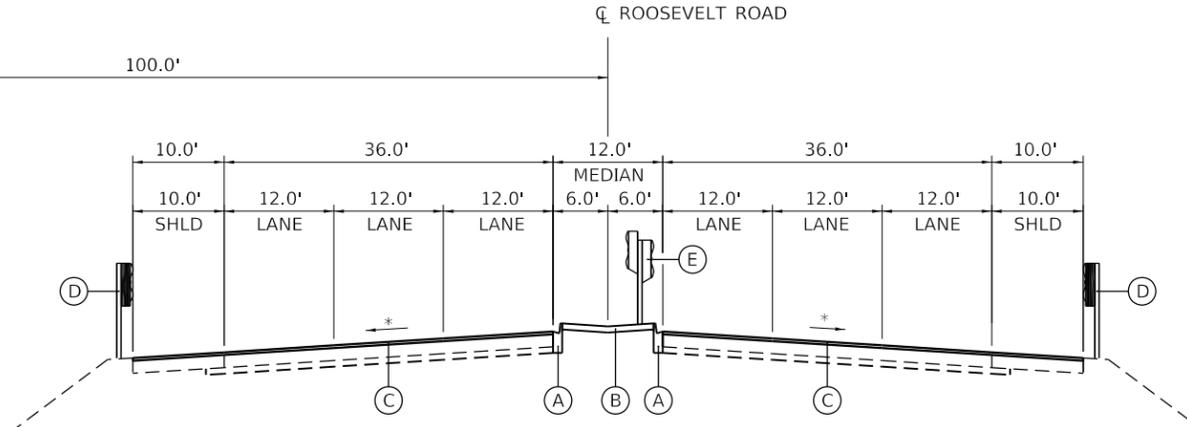
**N. FRONTAGE ROAD
(BRUSH HILL ROAD)
EAST APPROACH
EXISTING TYPICAL SECTION**

(STA. 157+52.42 TO STA. 158+07.42)



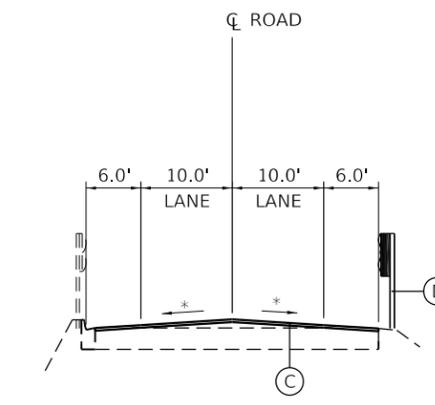
**N. FRONTAGE ROAD
(BRUSH HILL ROAD)
WEST APPROACH
PROPOSED TYPICAL SECTION**

(STA. 155+35.38 TO STA. 155+90.38)



**ROOSEVELT ROAD - MAINLINE
PROPOSED TYPICAL SECTION**

(STA. 154+71.68 TO STA. 155+94.62)
(STA. 156+80.98 TO STA. 158+03.32)



**N. FRONTAGE ROAD
(BRUSH HILL ROAD)
EAST APPROACH
PROPOSED TYPICAL SECTION**

(STA. 157+52.42 TO STA. 158+07.42)

HMA MIXTURE TABLE

PAY ITEM DESCRIPTION	MIX TYPE	% AIR VOIDS @ Ndes	QMP DESIGNATION
APPROACH RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5mm); 1 3/4"	4%@70 GYR	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIX QUANTITIES IS 112 LBS/SQYD/IN. THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLE MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

EXISTING LEGEND

- ① EXIST. CONCRETE PAVEMENT
- ② EXIST. BITUMINOUS SHOULDER
- ③ EXIST. STABILIZED SUB-BASE
- ④ EXIST. STABILIZED SHOULDERS
- ⑤ EXIST. CONCRETE CURB AND GUTTER
- ⑥ EXIST. CONCRETE MEDIAN SURFACE
- ⑦ EXIST. GUARDRAIL
- ⑧ EXIST. BITUMINOUS RESURFACING
- ⑨ EXIST. CONCRETE SURFACE COURSE

PROPOSED LEGEND

- (A) COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
- (B) CONCRETE MEDIAN SURFACE, 4 INCH
- (C) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 - 1 3/4"
- (D) TRAFFIC BARRIER TERMINAL
- (E) REMOVE AND REPLACE GUARDRAIL

MODEL: D:\44\11\10-246\DOT\District_11\10_10_11\389\Ssk_Creek\Sheet\163104-SHT06-Typ.dgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
PLOT SCALE = 20.0000 ' / in.	DRAWN - KJD	REVISED -
PLOT DATE = 12/10/2018	CHECKED - RTB	REVISED -
	DATE - 12/07/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
IL 38 (ROOSEVELT RD) OVER SALT CREEK**

SCALE: 20.0000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	9
					CONTRACT NO. 62H04
					ILLINOIS / FED. AID PROJECT

MOT GENERAL NOTES

1. THE PERMANENT TRAFFIC CONTROL DEPICTED HERE IN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
2. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
3. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 50 FEET CENTER TO CENTER IN TANGENTS, 20 FEET CENTER TO CENTER IN TAPERS, AND 10 FEET CENTER TO CENTER IN RADII IN THE CONSTRUCTION WORK ZONE.
4. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
6. ALL "ROAD CONSTRUCTION AHEAD", "SHOULDER CLOSED AHEAD", AND "SPEED LIMIT AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS.
7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
9. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" x 6" DELINEATOR INSTALLED. COST OF THE DELINEATOR IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
10. LANES MAY ONLY BE CLOSED DURING THE ALLOWABLE HOURS LISTED IN THE KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC SPECIAL PROVISION.
11. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
12. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
13. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.
14. THE CONTRACTOR SHALL PLACE ONE (1) CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH APPROPRIATE INFORMATION SHALL BE PLACED TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY, "CHANGEABLE MESSAGE SIGN".
15. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S ARTERIAL TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL WORK WEEKS OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
16. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF STAGE CHANGES OR LANE CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT LIMITED TO LANE CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATIONS.
17. TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS INDICATED IN THE PLANS. FURNISHING, INSTALLING AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
18. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, IF THEY WERE REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION. THE COST TO REPAIR ANY DAMAGES WITH BE BORNE BY THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE DEPARTMENT.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT BOTH LOCATIONS. THE IMPROVEMENTS ALONG IL ROUTE 38 ON SN 022-0028 WILL BE CONSTRUCTED USING SHOULDER CLOSURES, PER TC-09 AND HIGHWAY STANDARDS 701101, 701106, 701606, 701411, AND 701423. THE IMPROVEMENTS ON BRUSH HILL ROAD WILL BE CONSTRUCTED USING HIGHWAY STANDARDS 701001, 701006, 701321, AND 701501.

PRE-STAGE: IL ROUTE 38 OVER SALT CREEK (SN 022-0026)

1. INSTALL PORTABLE CHANGEABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER.
2. INSTALL EROSION CONTROL DEVICES AS PER THE EROSION CONTROL PLANS.

PRE-STAGE: BRUSH HILL ROAD OVER SALT CREEK (SN 022-0028)

1. INSTALL EROSION CONTROL DEVICES AS PER THE EROSION CONTROL PLANS.

STAGE I: IL ROUTE 38 OVER SALT CREEK (SN 022-0026)

1. INSTALL AND MAINTAIN TRAFFIC CONTROL AND PROTECTION AS PER MAINTENANCE OF TRAFFIC PLANS AND HIGHWAY STANDARD 701423 FOR OUTSIDE SHOULDER AND RIGHT LANE CLOSURE FOR 24 HOURS PER DAY DURING THE DURATION OF CONSTRUCTION. MAINTAIN LANE CLOSURE AT EXIT RAMP PER HIGHWAY STANDARD 701411.
2. PERFORM BRIDGE JOINT REPAIRS AND BRIDGE DECK OVERLAY ON THE OUTSIDE CLOSURES.

STAGE I: BRUSH HILL ROAD OVER SALT CREEK (SN 022-0028)

1. INSTALL SIGNAGE AND TEMPORARY RUMBLE STRIPS AS PER MAINTENANCE OF TRAFFIC PLANS.
2. INSTALL TEMPORARY TRAFFIC SIGNAL DEVICES TO FACILITATE ONE TRAFFIC LANE AS PER HIGHWAY STANDARD 701423 AND MAINTENANCE OF TRAFFIC PLANS.
3. INSTALL TEMPORARY PAVEMENT MARKINGS TO SHIFT ALL TRAFFIC ONTO THE EXISTING EASTBOUND LANE.
4. PERFORM STRUCTURAL REPAIRS ON NORTH HALF OF STRUCTURE.

STAGE II: IL ROUTE 38 OVER SALT CREEK (SN 022-0026)

1. INSTALL AND MAINTAIN TRAFFIC CONTROL AND PROTECTION AS PER MAINTENANCE OF TRAFFIC PLANS AND HIGHWAY STANDARD 701423 FOR INSIDE SHOULDER AND LEFT LANE CLOSURE FOR 24 HOURS PER DAY DURING THE DURATION OF CONSTRUCTION.
2. PERFORM BRIDGE JOINT REPAIRS AND BRIDGE DECK OVERLAY ON THE INSIDE CLOSURES.

STAGE II: BRUSH HILL ROAD OVER SALT CREEK (SN 022-0028)

1. REMOVE CONFLICTING TEMPORARY PAVEMENT MARKINGS FROM STAGE I. INSTALL TEMPORARY PAVEMENT MARKINGS TO SHIFT ALL TRAFFIC ONTO THE EXISTING WESTBOUND LANE.
4. PERFORM STRUCTURAL REPAIRS ON SOUTH HALF OF STRUCTURE.

STAGE III: BOTH LOCATIONS

1. REOPEN ALL LANES AND SHOULDERS TO TRAFFIC AND REMOVE TEMPORARY EROSION CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES. UTILIZE IDOT TRAFFIC CONTROL STANDARDS TO MAINTAIN TRAFFIC.

FILE NAME = G:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\1616104-shr-MOT Notes.dgn



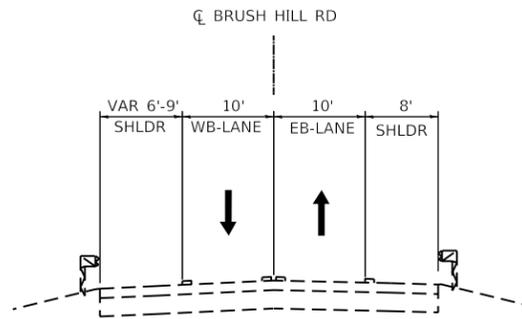
USER NAME = JENT	DESIGNED - LC	REVISED -
	DRAWN - LC	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC GENERAL NOTES
IL RTE 38 (ROOSEVELT RD) AND BRUSH HILL RD**

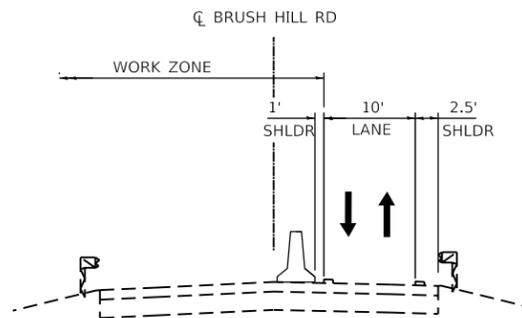
SCALE: 1"=50' SHEET 1 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	12
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION
BRUSH HILL RD**

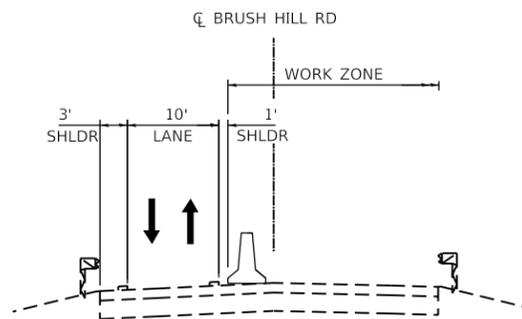
STATION 500+00 TO STATION 528+55
WEST APPROACH IS SUPERELEVATED



**STAGE I
BRUSH HILL RD**

STATION 500+00 TO STATION 528+55
WEST APPROACH IS SUPERELEVATED

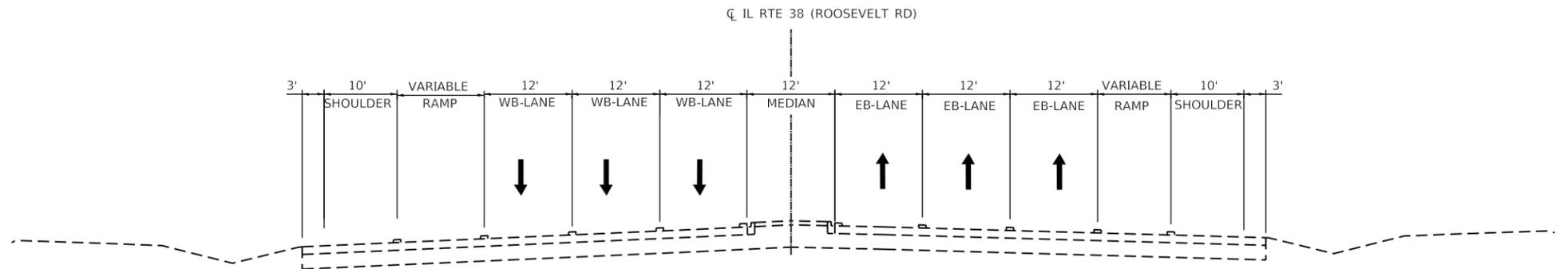
TEMPORARY CONCRETE BARRIER
STATION 512+54 TO STATION 517+38



**STAGE II
BRUSH HILL RD**

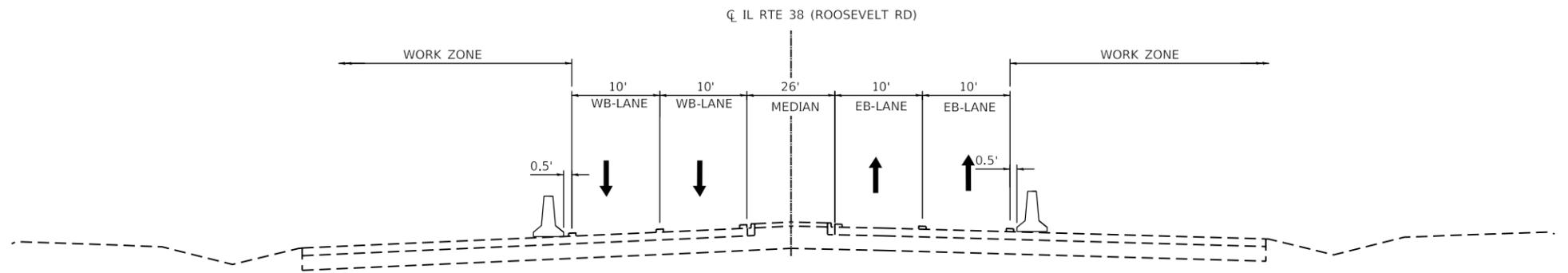
STATION 500+00 TO STATION 528+55
WEST APPROACH IS SUPERELEVATED

TEMPORARY CONCRETE BARRIER
STATION 512+54 TO STATION 517+38



**EXISTING TYPICAL SECTION
IL RTE 38 (ROOSEVELT RD)**

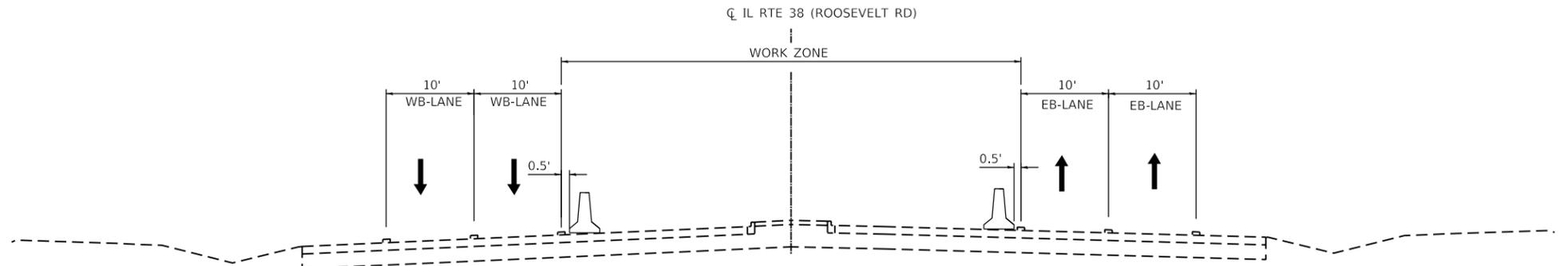
STATION 133+60 TO STATION 175+00



**STAGE I
IL RTE 38 (ROOSEVELT RD)**

STATION 133+60 TO STATION 175+00

TEMPORARY CONCRETE BARRIER
STATION 154+76 LT TO STATION 160+10 LT
STATION 152+16 RT TO STATION 158+30 RT



**STAGE II
IL RTE 38 (ROOSEVELT RD)**

STATION 133+60 TO STATION 175+00

TEMPORARY CONCRETE BARRIER
STATION 154+76 LT TO STATION 160+10 LT
STATION 152+67 RT TO STATION 158+30 RT

LEGEND

- PAVEMENT MARKING
- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC

FILE NAME = Q:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\Civil\160404-shr-MOT Typical_Sec_IL_38.dgn



USER NAME = JENT	DESIGNED - AB	REVISED -
DRAWN - MN	REVISIONS -	
PLOT SCALE = 20.0000' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

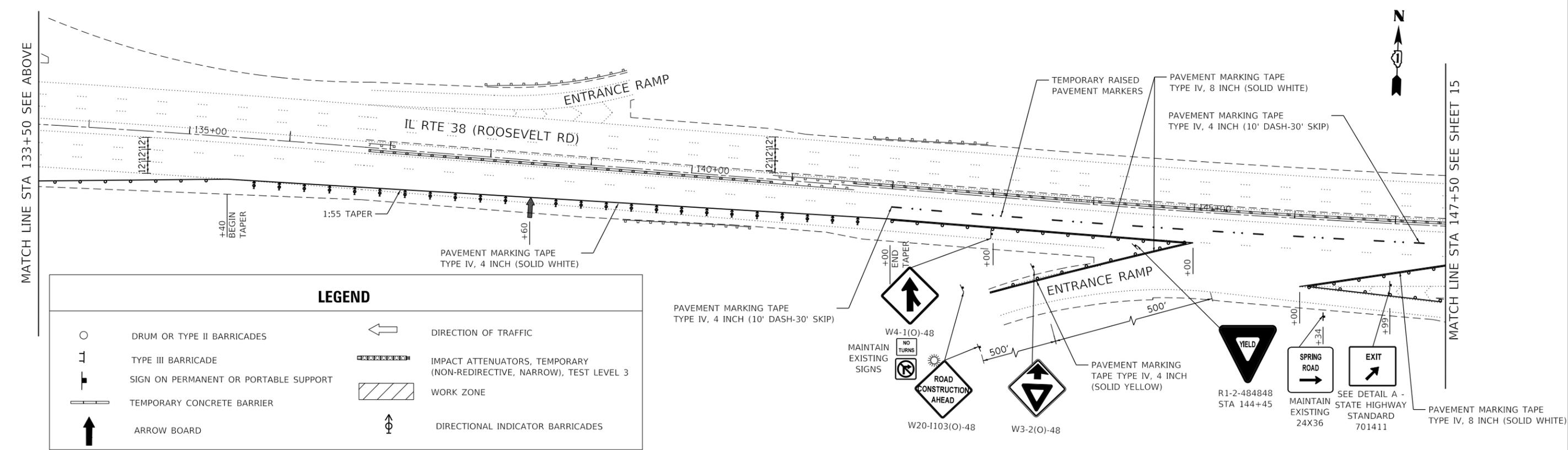
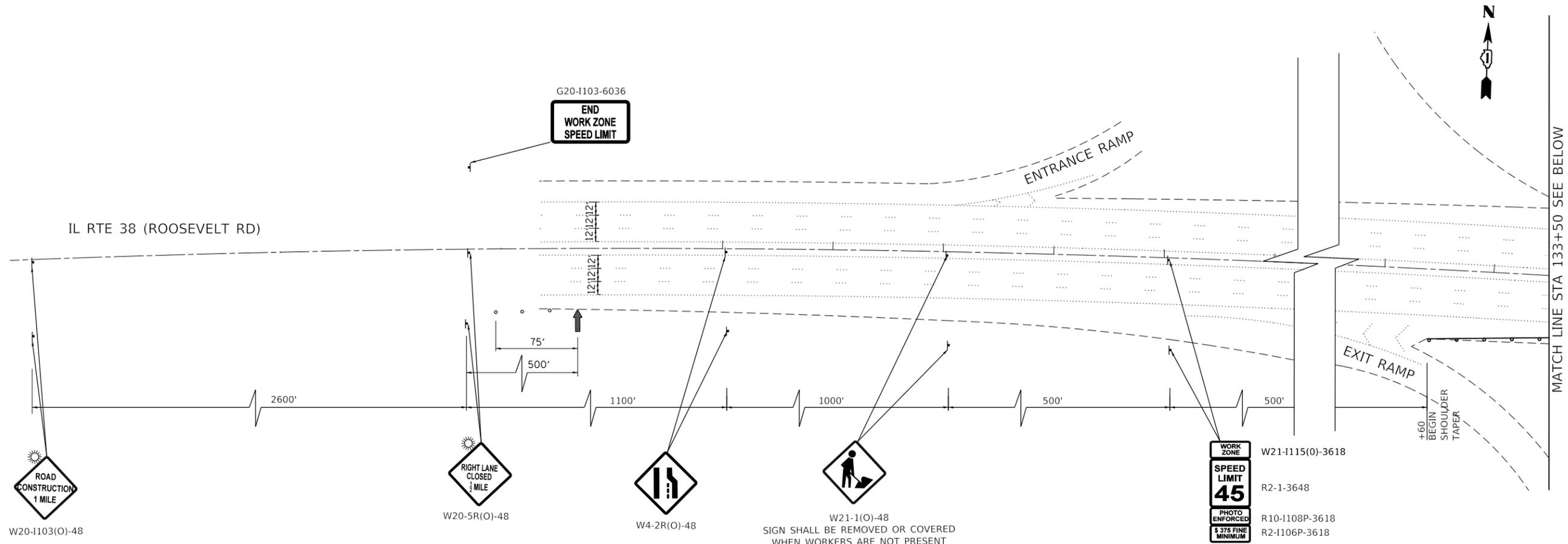
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
IL RTE 38 (ROOSEVELT RD) AND BRUSH HILL RD**

SCALE: 1"=50' SHEET 2 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	13
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\Live\Projects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\16804-shr-MOT IL 38 Stage 1-Ldgn



LEGEND	
	DRUM OR TYPE II BARRICADES
	TYPE III BARRICADE
	SIGN ON PERMANENT OR PORTABLE SUPPORT
	TEMPORARY CONCRETE BARRIER
	ARROW BOARD
	DIRECTION OF TRAFFIC
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	WORK ZONE
	DIRECTIONAL INDICATOR BARRICADES



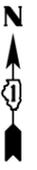
USER NAME = JENT	DESIGNED - AB	REVISED -
DRAWN - AB	REVISIONS -	
PLOT SCALE = 100:0.0000' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

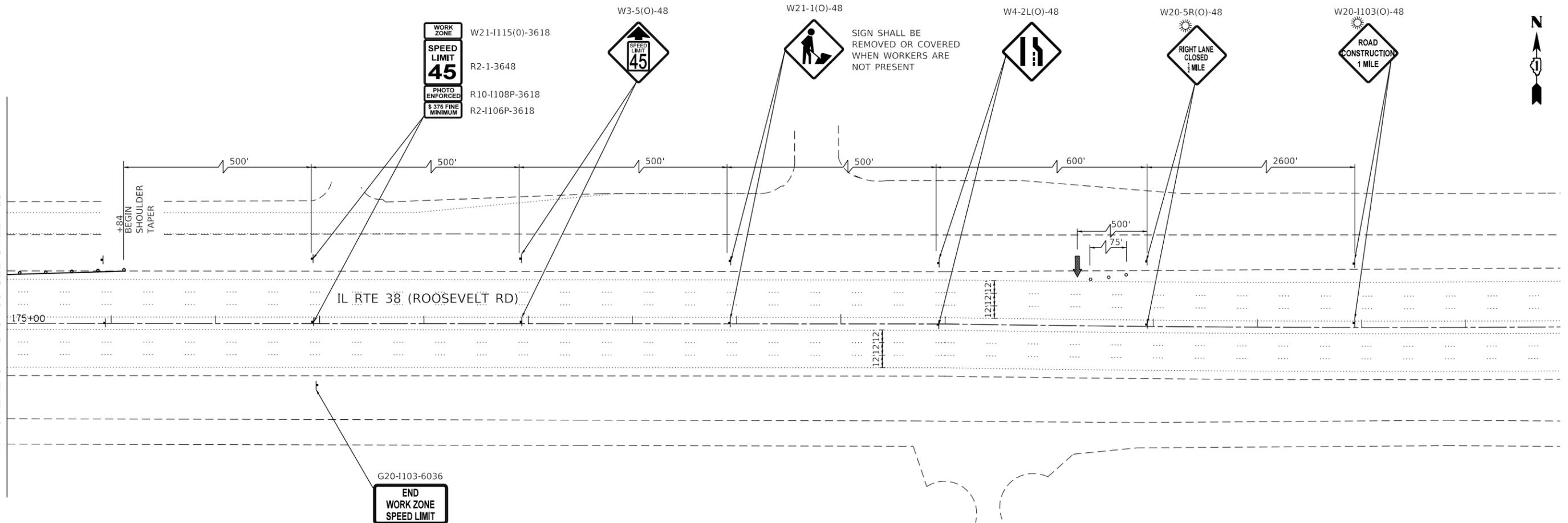
**MAINTENANCE OF TRAFFIC STAGE I - 1
IL RTE 38 (ROOSEVELT RD)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	14
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 3 OF 12 SHEETS STA. TO STA.



MATCHLINE STA 175+00 SEE SHEET 15



LEGEND	
	DRUM OR TYPE II BARRICADES
	TYPE III BARRICADE
	SIGN ON PERMANENT OR PORTABLE SUPPORT
	TEMPORARY CONCRETE BARRIER
	ARROW BOARD
	DIRECTION OF TRAFFIC
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	WORK ZONE
	DIRECTIONAL INDICATOR BARRICADES

FILE NAME = G:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\160404-shr-MOT IL 38 Stage 1-3.dgn



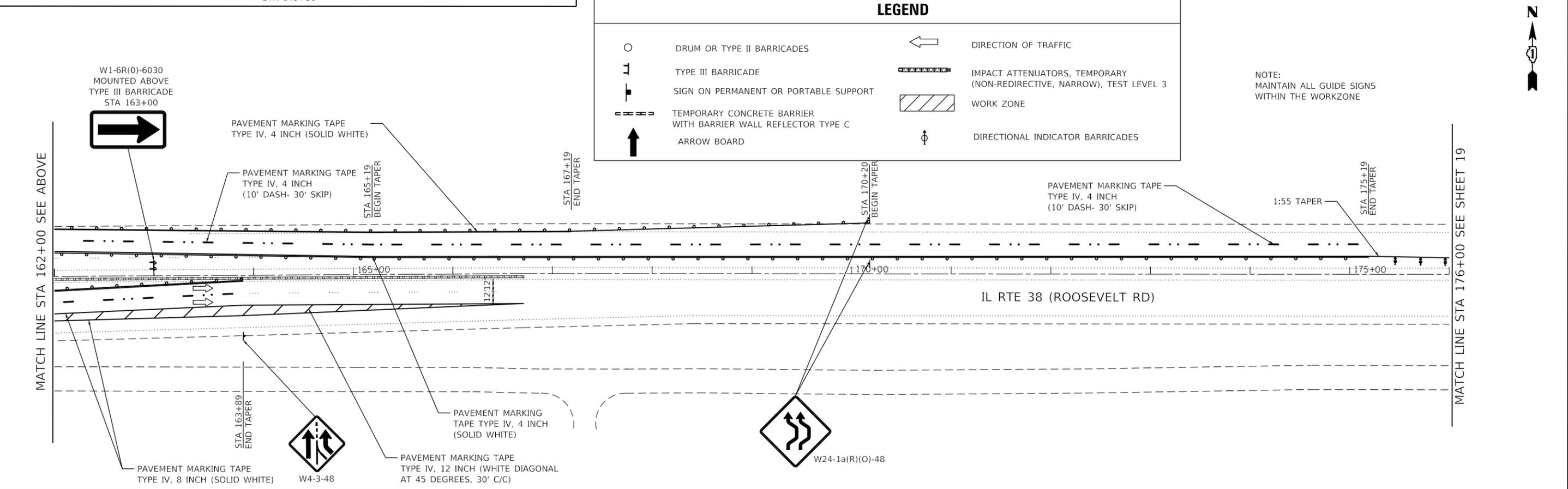
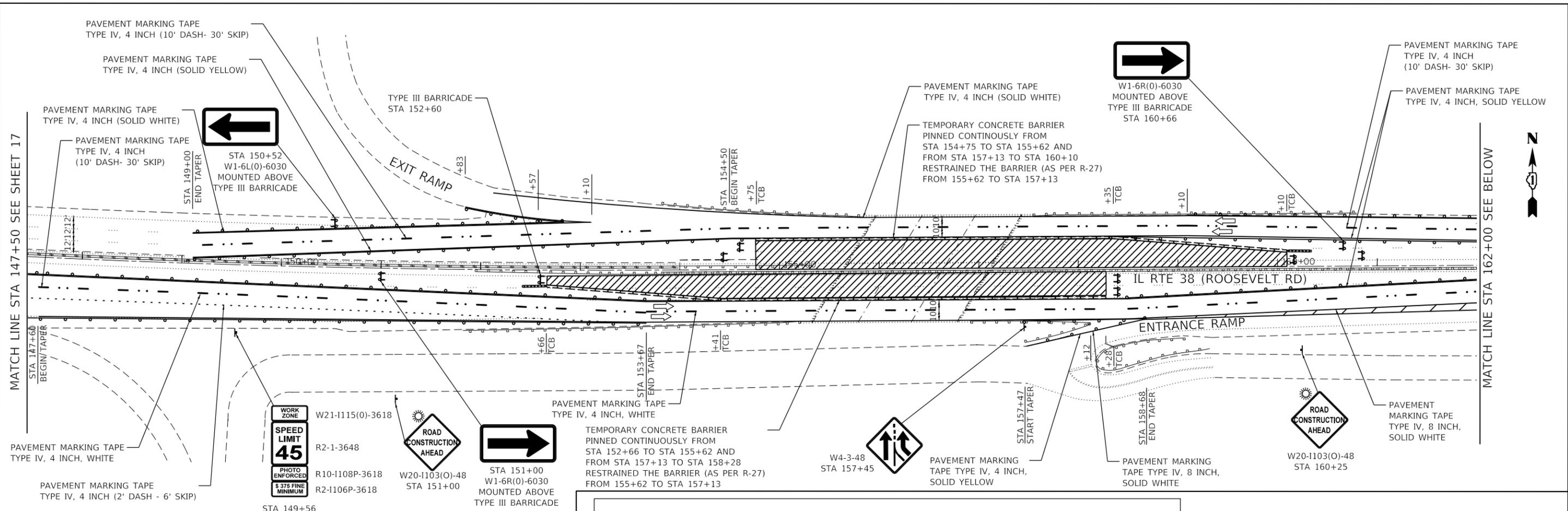
USER NAME = JENT	DESIGNED - AB	REVISED -
	DRAWN - AB	REVISED -
PLOT SCALE = 100:0.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC STAGE I - 3			
IL RTE 38 (ROOSEVELT RD)			
SCALE: 1"=50'	SHEET 5	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	16
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = 0:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\10\CADD\CADD Sheets\Civil\16604-shr-MOT_IL_38 Stage 2-2.dgn



LEGEND

- DRUM OR TYPE II BARRICADES
- ⊥ TYPE III BARRICADE
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTOR TYPE C
- ↑ ARROW BOARD
- ← DIRECTION OF TRAFFIC
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- ▨ WORK ZONE
- ⊕ DIRECTIONAL INDICATOR BARRICADES

NOTE: MAINTAIN ALL GUIDE SIGNS WITHIN THE WORKZONE



USER NAME = JENT	DESIGNED - AB	REVISED -
DRAWN - AB	REVISED -	
PLOT SCALE = 100:0.0084 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC STAGE II - 2
IL RTE 38 (ROOSEVELT RD)**

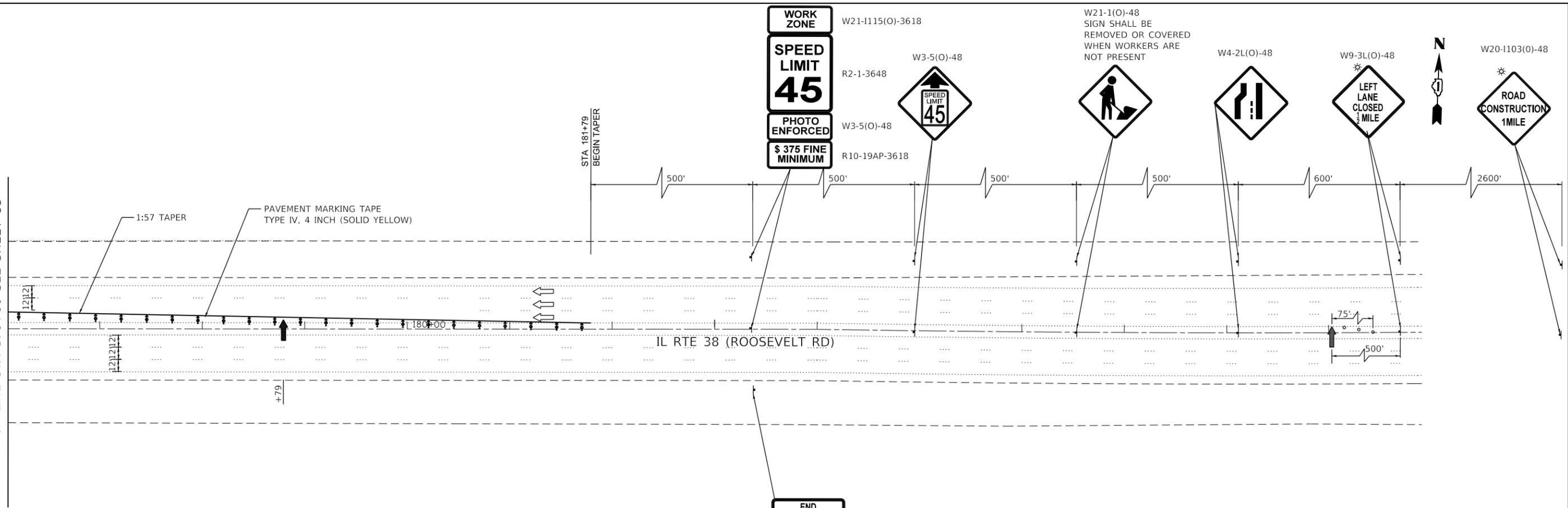
SCALE: 1"=50'

SHEET 7 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 347	SECTION 2018-044-BD&BJR	COUNTY DUPAGE	TOTAL SHEETS 74	SHEET NO. 18
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\160404-shr-MOT IL 38 Stage 2-3.dgn

MATCH LINE STA 176+00 SEE SHEET 18



STA 181+79
BEGIN TAPER

WORK ZONE
SPEED LIMIT 45
PHOTO ENFORCED
\$ 375 FINE MINIMUM

W21-1115(O)-3618
R2-1-3648
W3-5(O)-48
R10-19AP-3618

W3-5(O)-48
SPEED LIMIT 45

W21-1(O)-48
SIGN SHALL BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT

W4-2L(O)-48

W9-3L(O)-48
LEFT LANE CLOSED 1/2 MILE

W20-1103(O)-48
ROAD CONSTRUCTION 1 MILE

IL RTE 38 (ROOSEVELT RD)

END WORK ZONE SPEED LIMIT

G20-1103-6036

LEGEND	
	DRUM OR TYPE II BARRICADES
	TYPE III BARRICADE
	SIGN ON PERMANENT OR PORTABLE SUPPORT
	TEMPORARY CONCRETE BARRIER
	ARROW BOARD
	DIRECTION OF TRAFFIC
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	WORK ZONE
	DIRECTIONAL INDICATOR BARRICADES



USER NAME = JENT	DESIGNED - AB	REVISED -
	DRAWN - AB	REVISED -
PLOT SCALE = 100:0.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

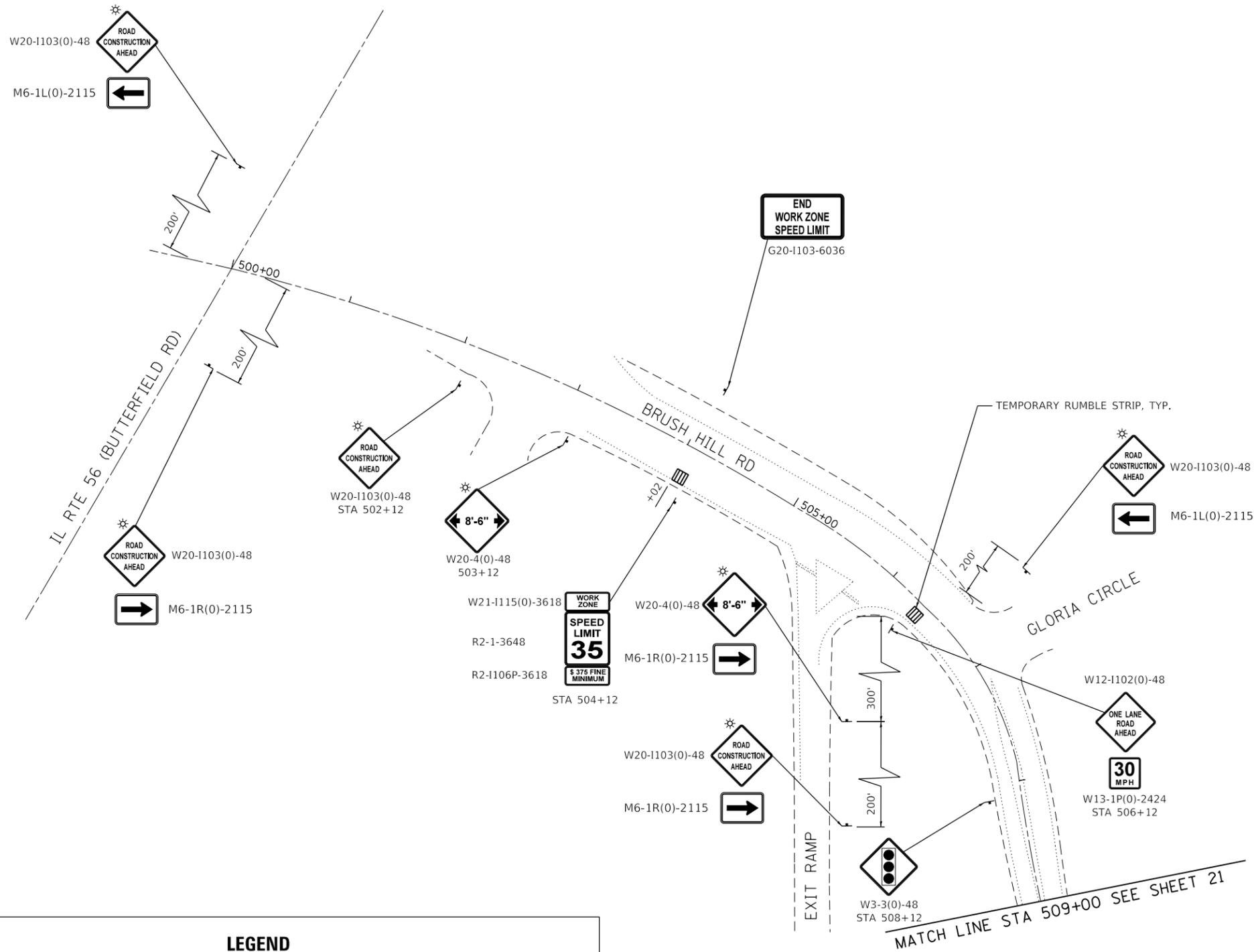
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC STAGE II - 3
IL RTE 38 (ROOSEVELT RD)

SCALE: 1"=50' SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR		74	19
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\Civil\160404-shr-MOT Frontage Rd stage 1-1.dgn



LEGEND	
	DRUM OR TYPE II BARRICADES
	TYPE III BARRICADE
	SIGN ON PERMANENT OR PORTABLE SUPPORT
	TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS, TYPE C
	ARROW BOARD
	DIRECTION OF TRAFFIC
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	WORK ZONE
	TEMPORARY RUMBLE STRIP



USER NAME = JENT	DESIGNED - AB	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 100:0.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

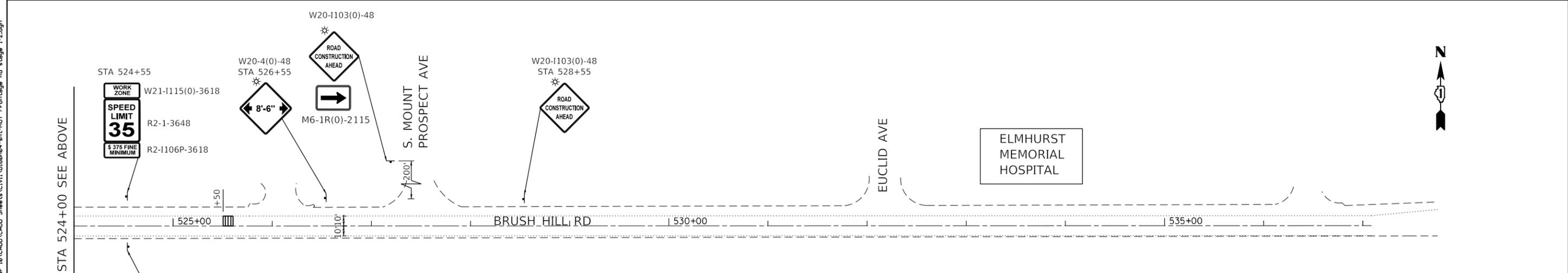
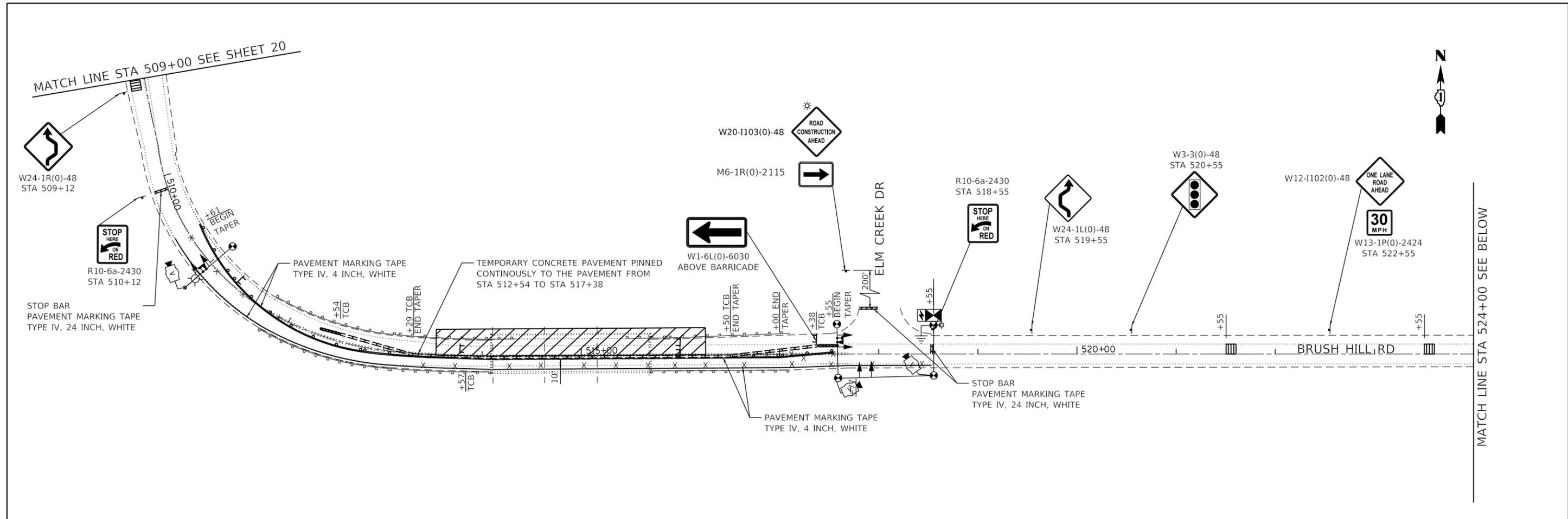
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC STAGE I - 1
BRUSH HILL RD**

SCALE: 1"=50' SHEET 9 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	20
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\16804-sht-MOT Frontage Rd stage 1-2.dgn



LEGEND	
	DRUM OR TYPE II BARRICADES
	TYPE III BARRICADE
	SIGN ON PERMANENT OR PORTABLE SUPPORT
	TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS, TYPE C
	ARROW BOARD
	DIRECTION OF TRAFFIC
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	WORK ZONE
	TEMPORARY RUMBLE STRIP



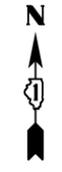
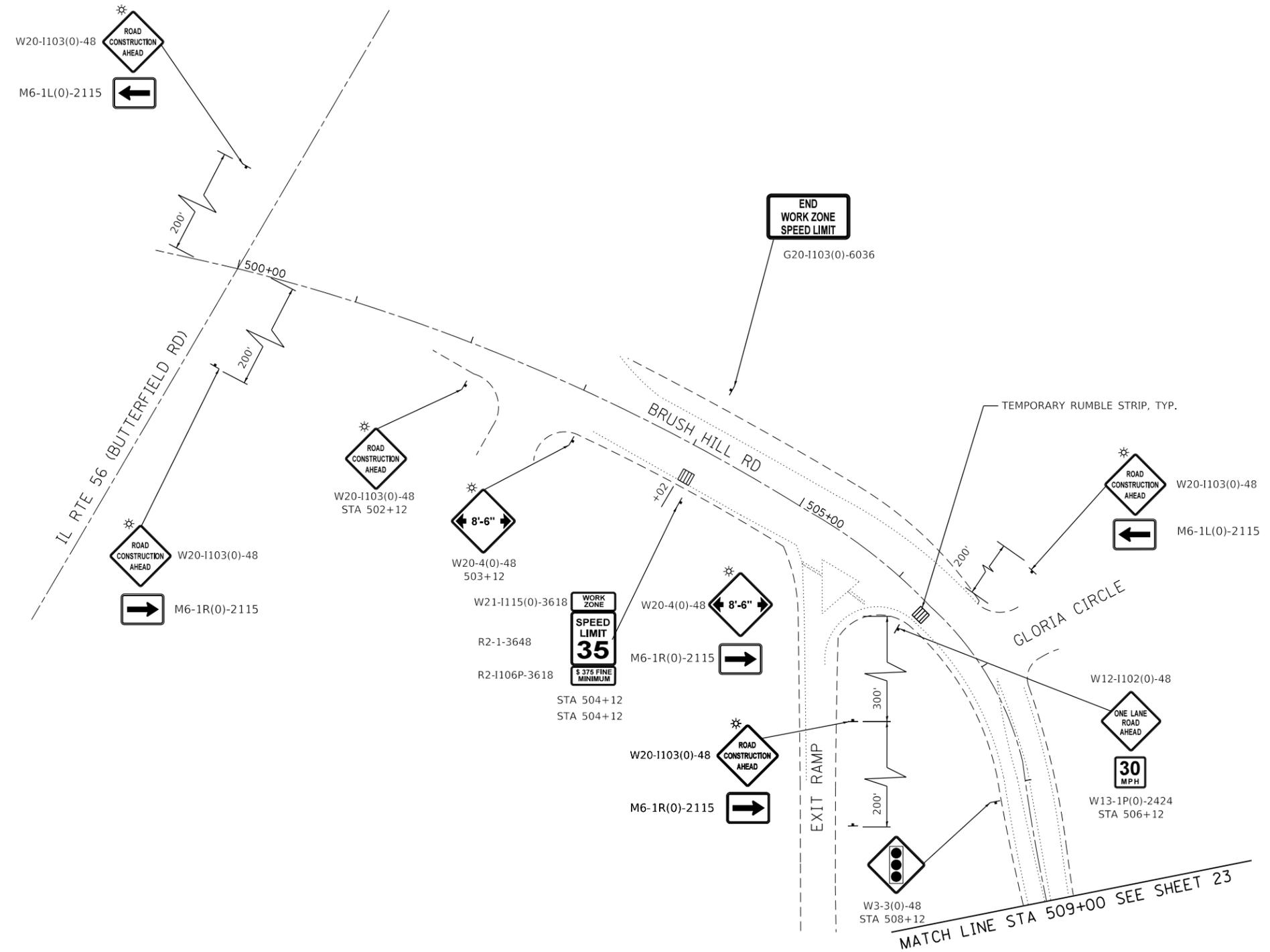
USER NAME = JENT	DESIGNED - AB	REVISED -
DRAWN - JN	REVISOR -	REVISOR -
CHECKED - TGM	REVISOR -	REVISOR -
DATE - 12/03/2018	REVISOR -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC STAGE 1- 2			
BRUSH HILL RD			
SCALE: 1"=50'	SHEET 10 OF 12 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	21
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\161604\sh-t-MOT Frontage Rd STAGE 2-1.dgn



LEGEND

- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENT AND 20' C-C IN TAPERS AND 10' C-C IN RADII
- TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS, TYPE C
- DIRECTION OF TRAFFIC
- PAVEMENT MARKING REMOVAL- WATER BLASTING
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- WORK ZONE
- TEMPORARY RUMBLE STRIPS



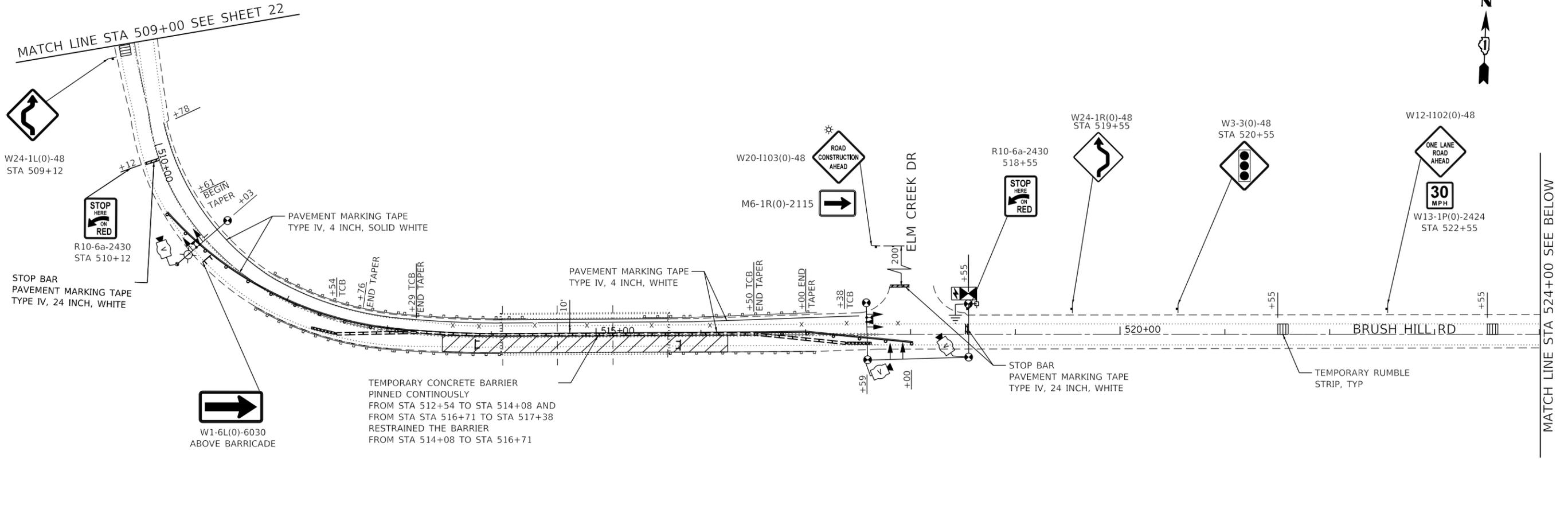
USER NAME = JENT	DESIGNED - AB	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 100:0.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC STAGE II - 1			
BRUSH HILL RD			
SCALE: 1"=50'	SHEET 11 OF 12 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	22
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\Engineering\LiveProjects\13040_IDOT DUR HBM\Work Order\18\CAD\CADD Sheets\C:\1\16804-sht-MOT Frontage Rd stage 2-2.dgn



-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AT 50' C-C SPACING IN TANGENT AND 20' C-C IN TAPERS AND 10' C-C IN RADII
-  TYPE III BARRICADE WITH 2 MONO-DIRECTIONAL TYPE A FLASHERS
-  SIGN ON PERMANENT OR PORTABLE SUPPORT
-  TEMPORARY CONCRETE BARRIER WITH BARRIER WALL REFLECTORS, TYPE C
-  DIRECTION OF TRAFFIC
-  PAVEMENT MARKING REMOVAL- WATER BLASTING
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
-  WORK ZONE
-  TEMPORARY RUMBLE STRIPS



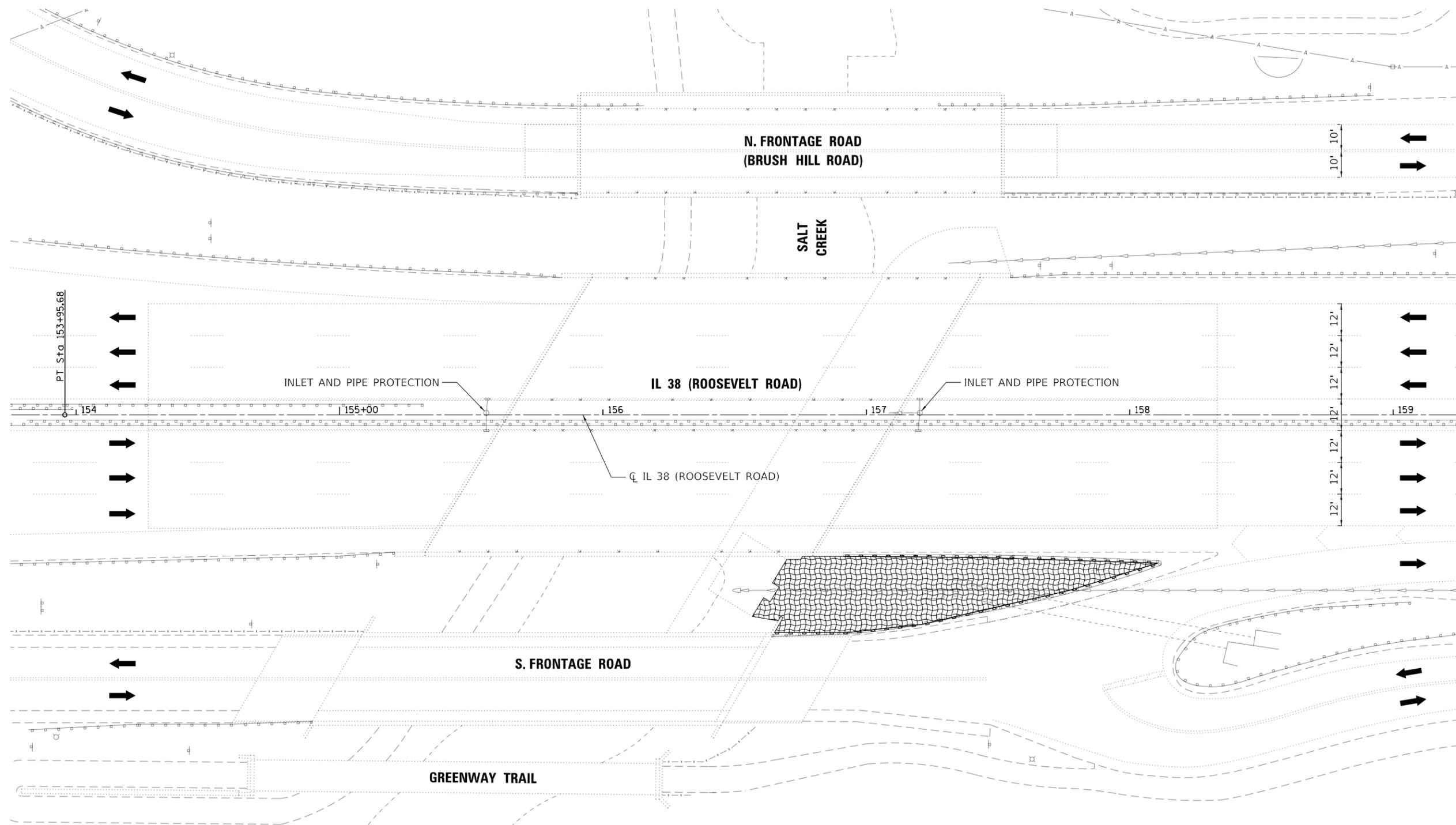
USER NAME = JENT	DESIGNED - AB	REVISED -
DRAWN - JN	REVISED -	
PLOT SCALE = 100:0.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/11/2019	DATE - 12/03/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC STAGE II - 2
BRUSH HILL RD**

SCALE: 1"=50' SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2018-044-BD&BJR	DUPAGE	74	23
CONTRACT NO. 62H04				
ILLINOIS FED. AID PROJECT				



EROSION CONTROL PLAN

LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER

MODEL: D:\ef\h... FILE NAME: P:\1710-746 DOT District 11\W0_10_IL38@Salt Creek\Sheets\163104-SHT20-Eros.dgn

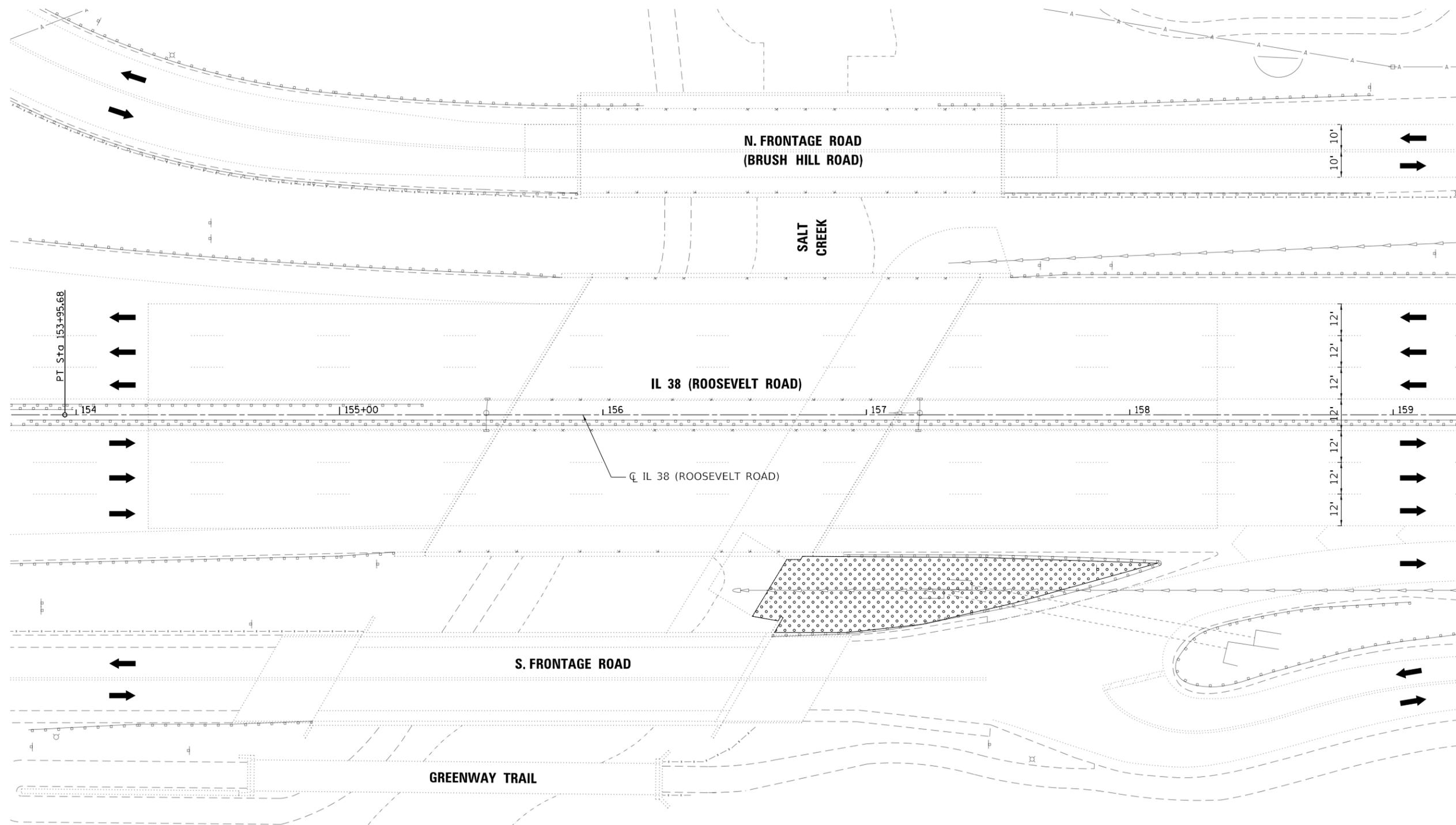


USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40:0,0000 '"/>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN			
IL 38 (ROOSEVELT RD) OVER SALT CREEK			
SCALE: 40:0,0000 '"/>			

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	24
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



LEGEND

- TOPSOIL FURNISH AND PLACE, 4" NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT SEEDING, CLASS 2A

LANDSCAPING PLAN

MODEL: D:\p1\11\10_10_IL389\Salt_Creek\Sheets\163104-SHT2-Landscap.dgn



USER NAME = Ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40:0,0000 ':" / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/10/2018	DATE - 12/07/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

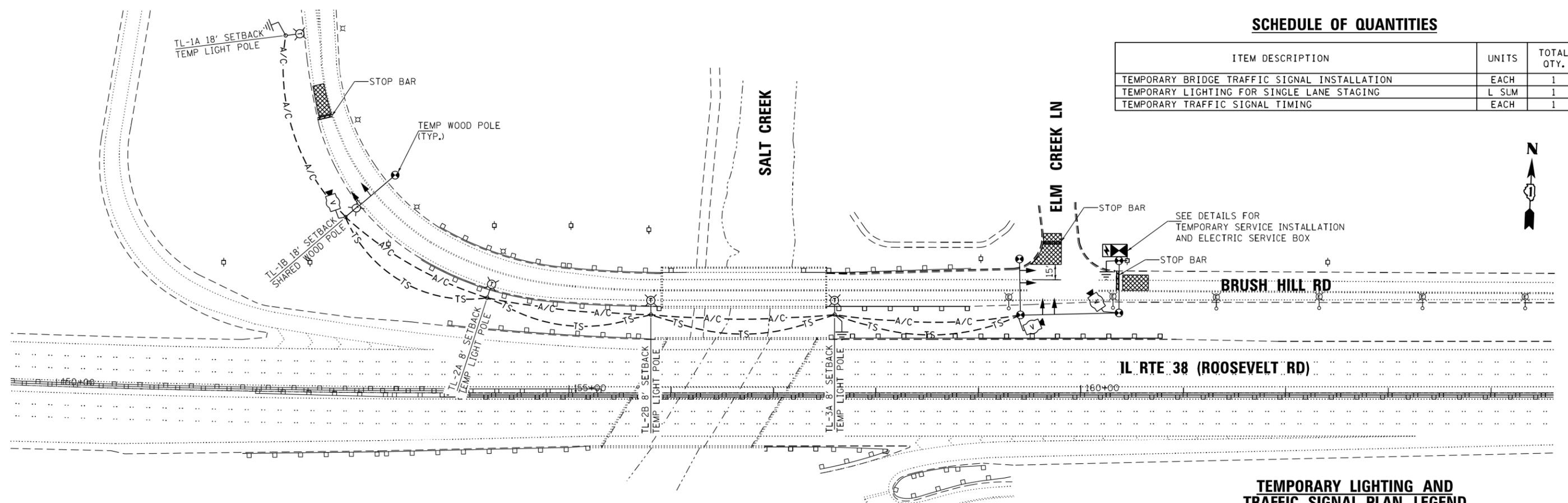
**LANDSCAPING PLAN
IL 38 (ROOSEVELT RD) OVER SALT CREEK**

SCALE: 40:0,0000 ':" SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	27
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1
TEMPORARY LIGHTING FOR SINGLE LANE STAGING	L SLM	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

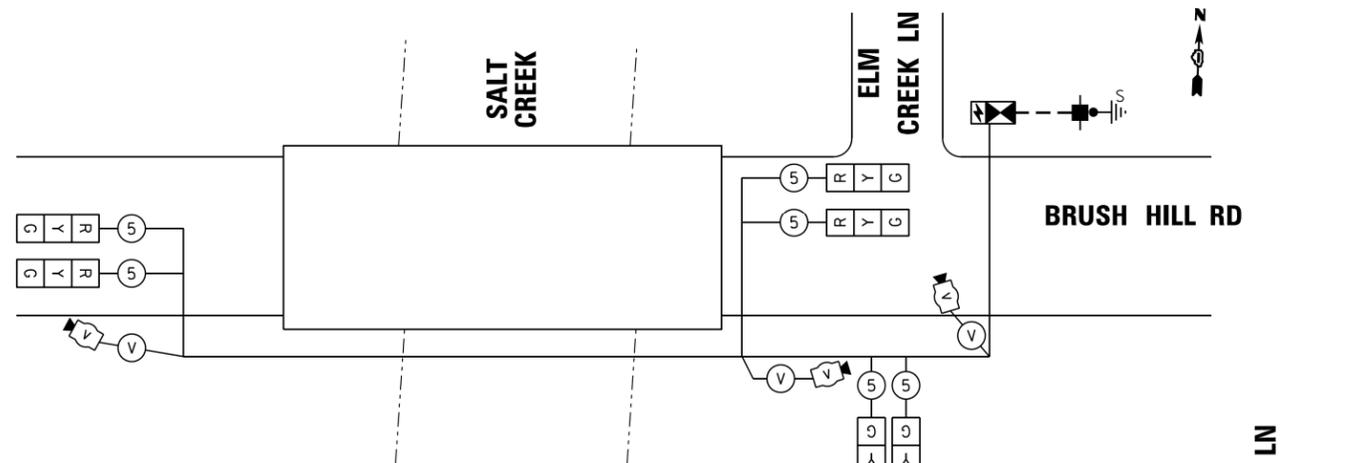


TYPICAL LAYOUT FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS

SCALE : 1" = 50'

GENERAL NOTES:

- CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
- UNLESS OTHERWISE INDICATED, AND EXCEPT AS OTHERWISE NOTED, THIS STANDARDIZED LAYOUT SHALL APPLY FOR BRIDGES NOT EXCEEDING A 250-FOOT SPAN. FOR BRIDGE SPANS IN EXCESS OF 250 FEET, THE POLES IMMEDIATELY ADJACENT TO THE BRIDGE SHALL BE 100-FOOT POLES (90-FOOT MOUNTING HEIGHT), WITH 750-WATT TYPE III HIGH PRESSURE SODIUM HIGH-MAST LUMINAIRES AS APPROVED BY THE ENGINEER.
- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED
- THE ELECTRIC SERVICE SHALL BE 240/120V, WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE. DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED
- THE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATION SHALL SHARE ANY COMMON ELEMENTS SUCH AS WOOD POLES, ELECTRICAL SERVICE, ELECTRIC SERVICE BOX, CABLE, ETC. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS.
- THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL. THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER AND OR AS DIRECTED BY THE ENGINEER.
- EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.



TEMPORARY CABLE PLAN (TYPICAL)

NOT TO SCALE

TEMPORARY CABLE PLAN LEGEND

- TEMPORARY VIDEO DETECTOR
- VENDOR CABLE
- INDICATES NUMBER OF CONDUCTORS IN CABLE, ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION, 12" (300 mm)

TEMPORARY LIGHTING AND TRAFFIC SIGNAL PLAN LEGEND

- 400W, 120V, MCIII HPS. WITH PHOTO CELL 15' MA, 50' MH ON WOOD POLE, CLASS 4
- EXISTING LIGHT POLE
- 3-1/C#2, AERIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED
- TL-1A TEMPORARY LIGHTING UNIT NUMBER - ONE CIRCUIT A
- GROUND ROD 5/8" DIA. x 10'
- COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX
- TEMPORARY WOOD POLE - NOMINAL 60 FT., CLASS 4
- TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.
- TEMPORARY TRAFFIC SIGNAL SPAN WIRE, NUMBER OF CONDUCTORS AS REQUIRED.
- TEMPORARY TRAFFIC CONTROLLER WITH UPS AND BOTTOM PLATE MOUNTED TO WOOD POLE
- TEMPORARY VIDEO DETECTOR
- VIDEO DETECTION ZONE

TEMPORARY PHASE DESIGNATION DIAGRAM LEGEND

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TEMPORARY PHASE DESIGNATION DIAGRAM (TYPICAL)

NOT TO SCALE

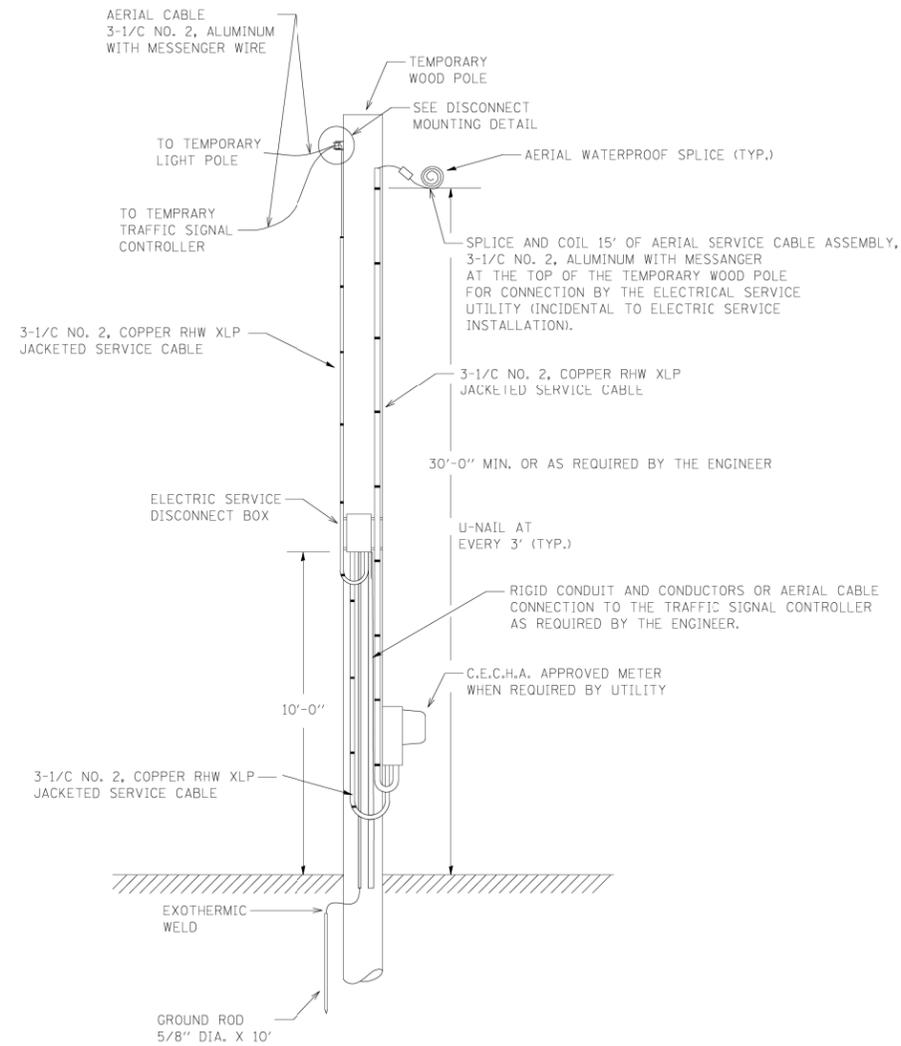
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING AND TRAFFIC SIGNALS
FOR SINGLE LANE STAGING
BRUSH HILL ROAD AT SALT CREEK

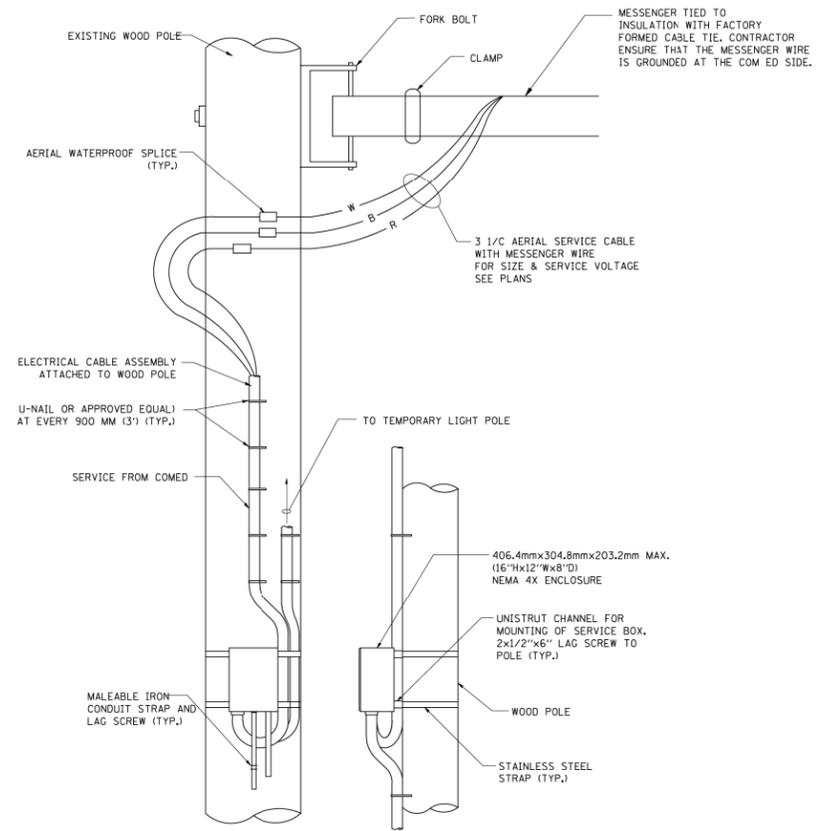
SCALE: AS SHOWN SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	28
CONTRACT NO. 62H04					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

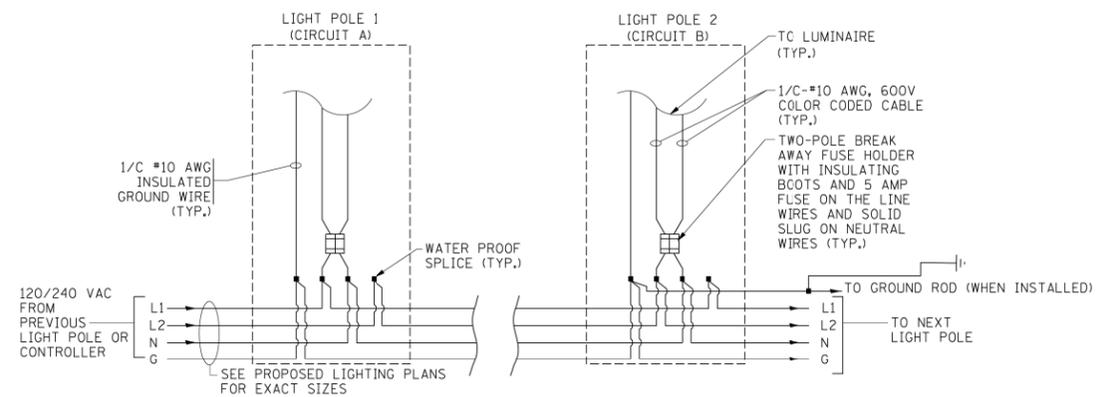
USER NAME = #USER#	DESIGNED - PKG	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = #SCALE#	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 11/30/2018	REVISED -



TEMPORARY SERVICE INSTALLATION DETAIL
NOT TO SCALE



DISCONNECT MOUNTING DETAIL
NOT TO SCALE



LIGHT POLE WIRING DETAIL
NOT TO SCALE

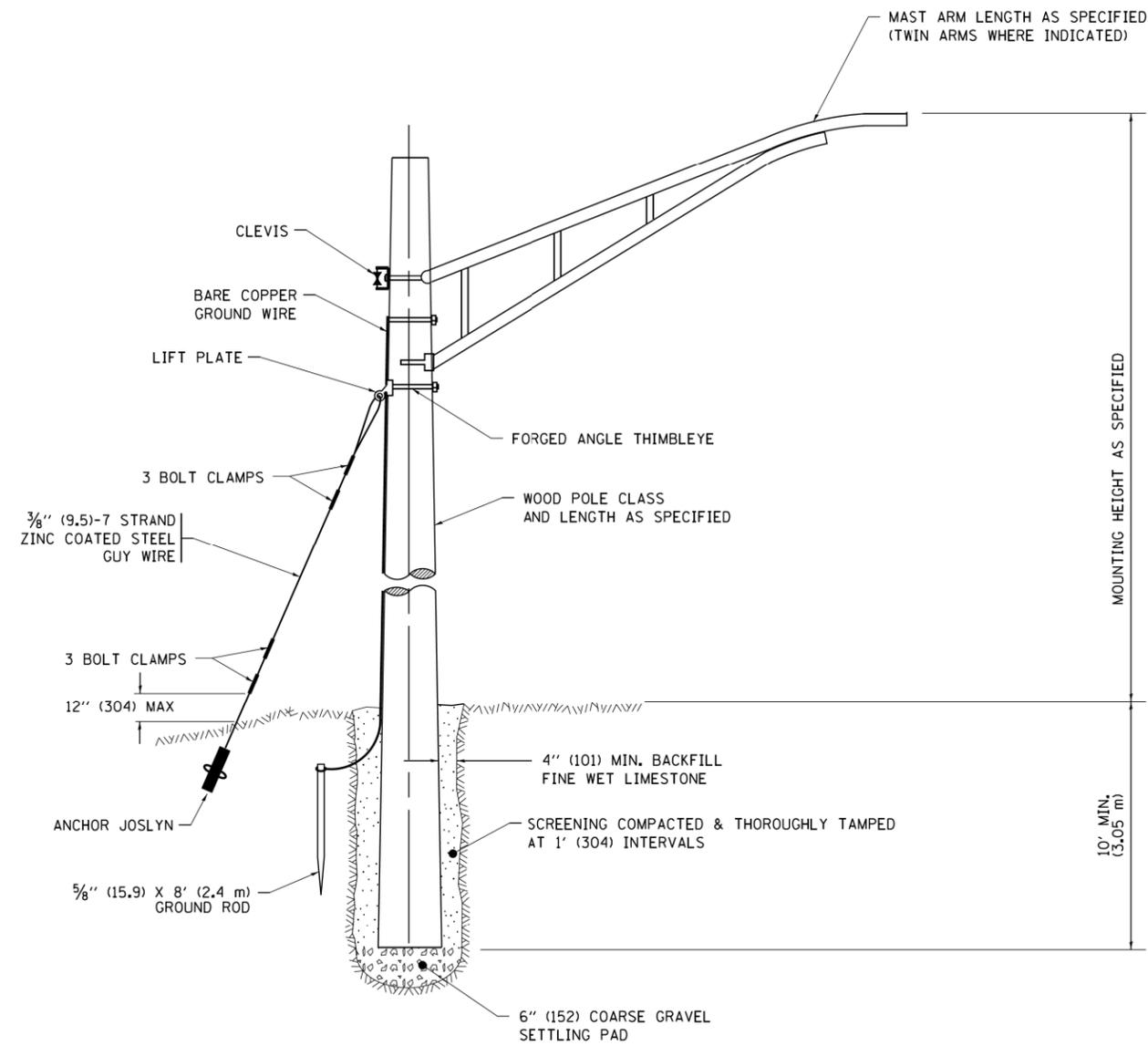
FILE NAME =	USER NAME = bauerdl	DESIGNED - MP	REVISED -
ca:\pwwork\p\w\1001\BAUERDL\d0108315\be806.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.000' / IN.		CHECKED -	REVISED -
PLOT DATE = 1/14/2010		DATE - 01/14/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING AND TRAFFIC SIGNALS
FOR SINGLE LANE STAGING**

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

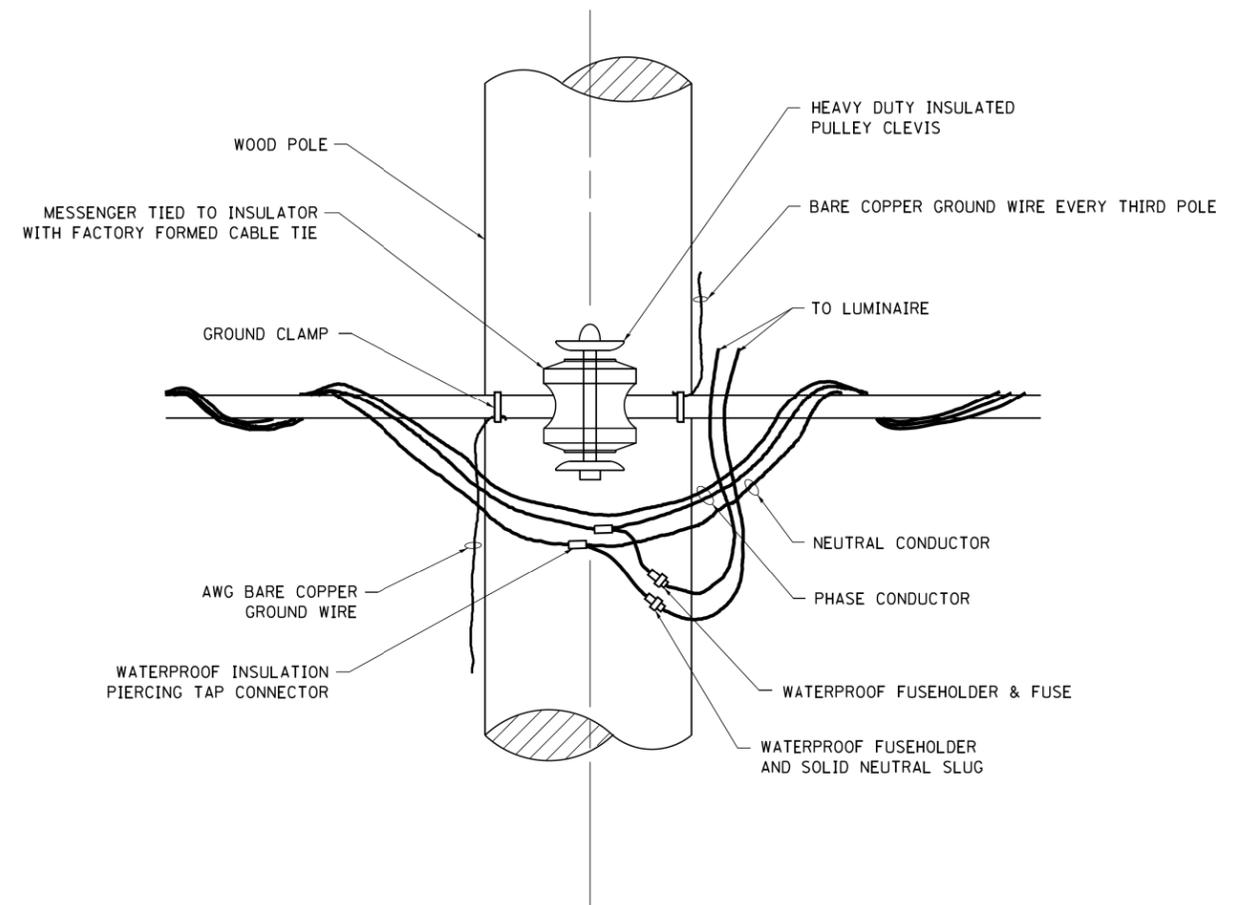
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	29
BE-805			CONTRACT NO. 62H04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



TEMPORARY LIGHT POLE DETAIL

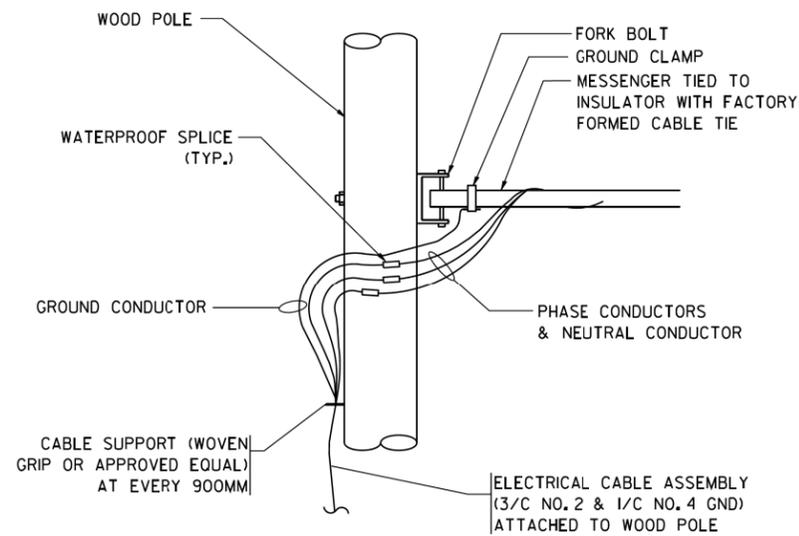
NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

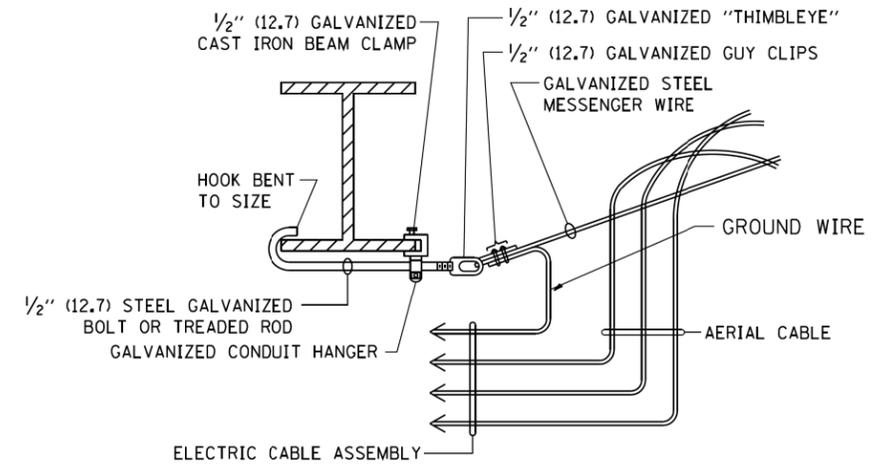


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\l\084E8IDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist	DRAWN\CADData\CADsheets\be800.dgn	REVISIONS -	REVISED - R.T. 07-26-16					347	550	2018-044-BD&BJR	DUPAGE	74	31
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -		BE-800			CONTRACT NO. 62H04					
	PLOT DATE = 9/1/2016	DATE -	REVISED -		SCALE: NONE			SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



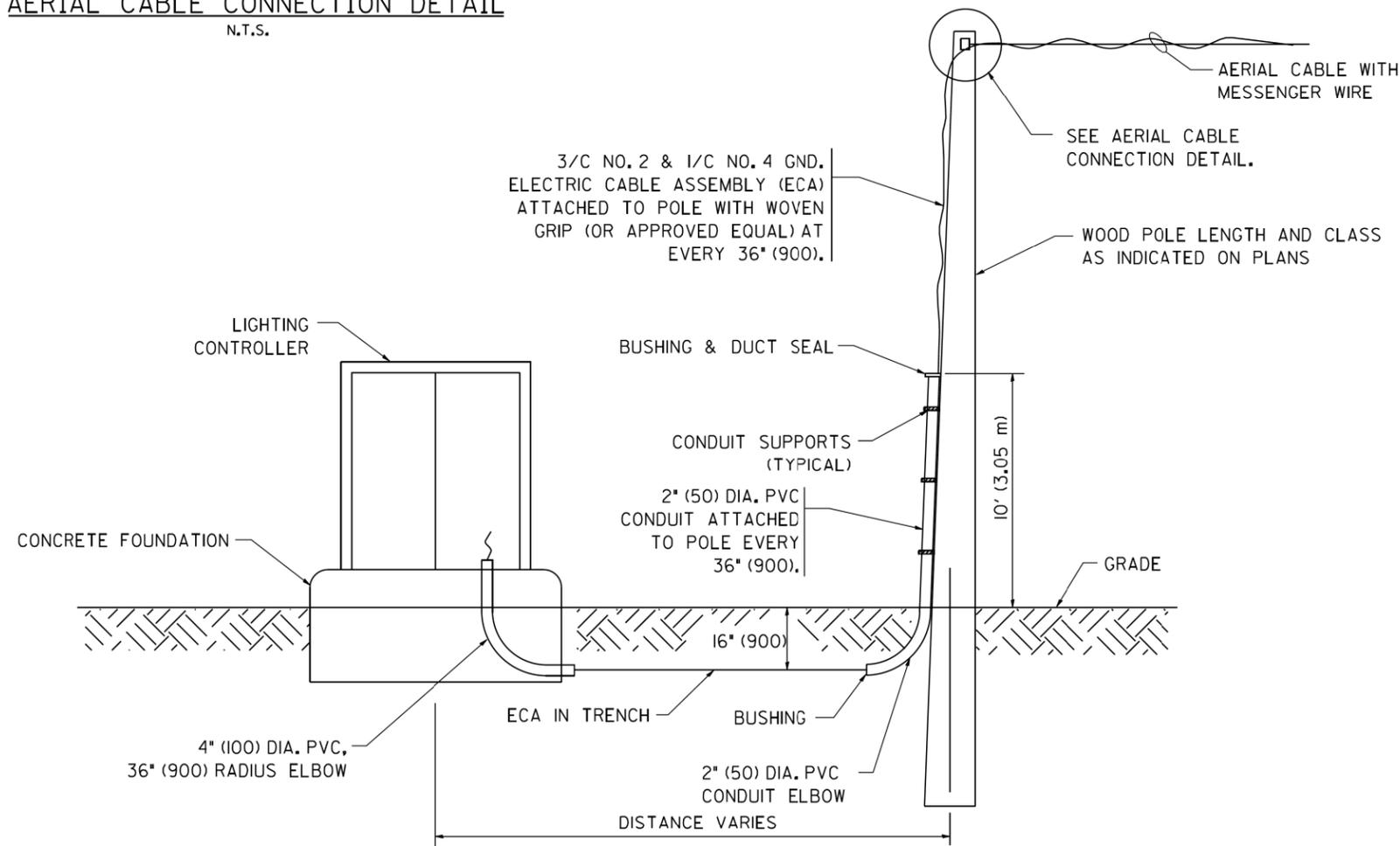
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



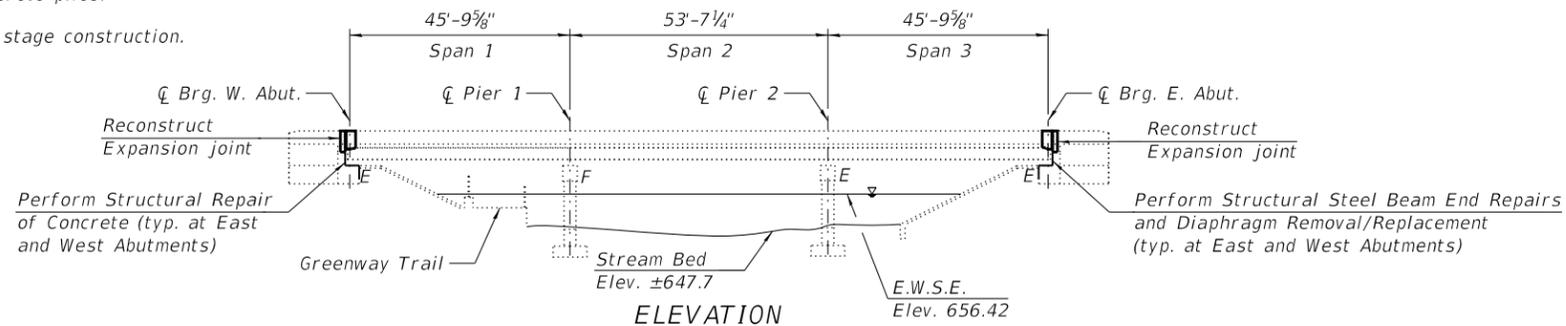
WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

FILE NAME = W:\dststd\22x34\be801.dgn	USER NAME = geg1anobt	DESIGNED - DRAWN -	REVISED - REVISED -	08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A.P. RTE. 347	F.A.U. RTE. 550	SECTION 2018-044-BD&BJR	COUNTY DUPAGE	TOTAL SHEETS 74	SHEET NO. 32
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-801 CONTRACT NO. 62H04				
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

Existing Structure: Structure No. 022-0026 was constructed in 1966 and reconstructed/widened in 1986. The structure has a length of 150'-11 1/2" (back-to-back of abutments) and an out-to-out deck width of 107'-2". The superstructure consists of a 7 1/2"-thick reinforced concrete deck supported on three-span continuous rolled steel beams with span lengths of 45'-9 5/8", 53'-7 1/4" and 45'-9 5/8". The substructure consists of reinforced concrete piers on untreated timber piles and concrete piles and abutments on concrete piles.

Traffic is to be maintained utilizing stage construction.

No Salvage



DESIGN STRESSES

FIELD UNITS

fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Structural Steel)

ORIGINAL CONSTRUCTION (1964)

f'c = 3,500 psi (concrete)
fs = 20,000 psi (Structural Steel)
fs = 20,000 psi (Reinforcing Steel)

RECONSTRUCTION (1985)

Superstructure
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement bars)

Substructure

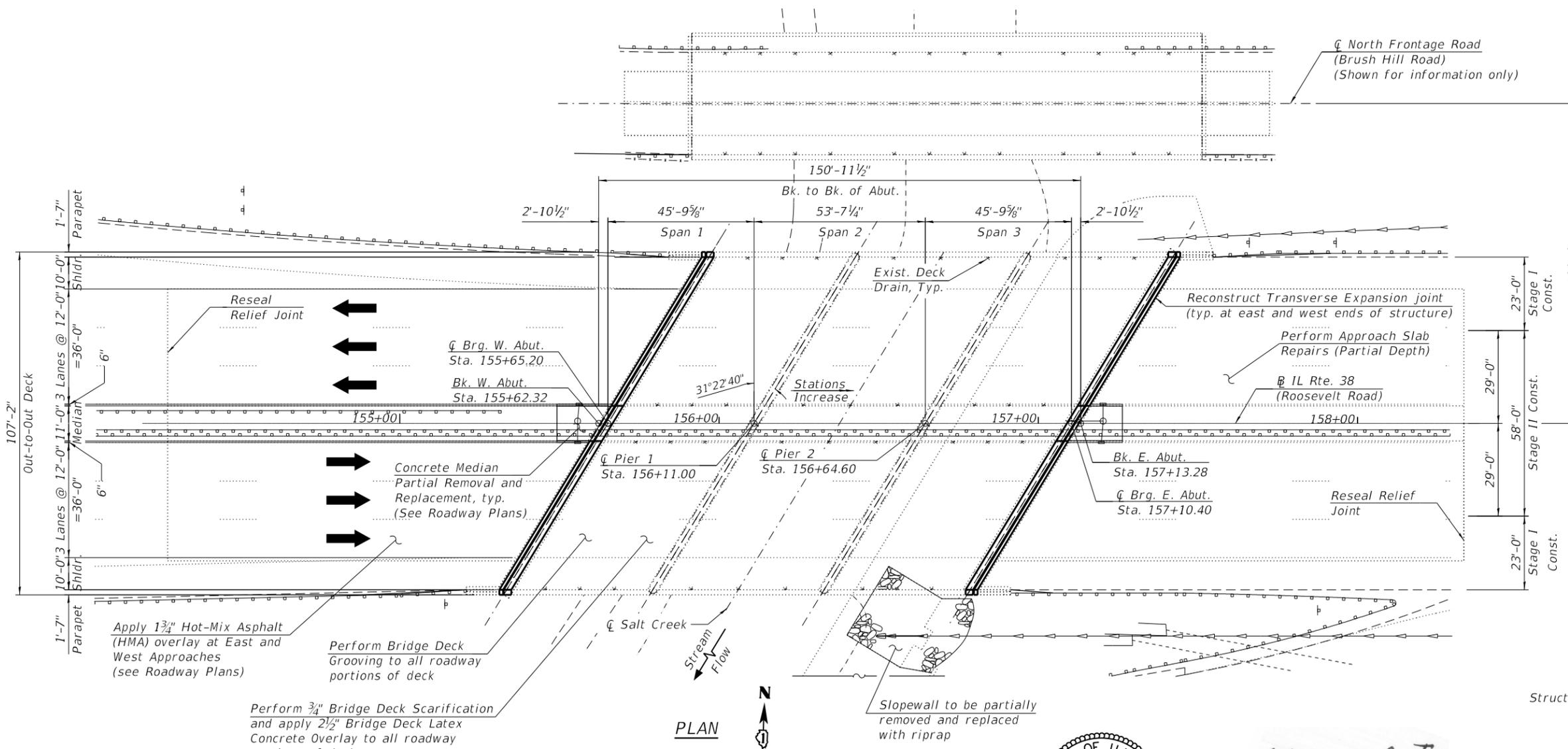
fc = 1,400 psi
fs = 24,000 psi
fs = 20,000 psi

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

NOTE:

1. For North Frontage Road Structure (S.N. 022-0028) repairs, see Sheets S2-01 thru S2-14.



SIGNED Moussa A. Issa
DR. MOUSSA A. ISSA, S.E. IL. LIC. NO. 081-005738
EXPIRES 11-30-2020

DATE 12/08/2018 FOR SHEETS S1-01THRU S1-20
(Total of 20 Sheets)

**GENERAL PLAN AND ELEVATION
IL RTE. 38 (ROOSEVELT ROAD)
OVER SALT CREEK
DU PAGE COUNTY
STATION 156+38.10
S.N. 022-0026**

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\10 IL38@Salt Creek\Sheets\0026\0220026-62H04-001-GPE.dgn
12/10/2018 5:14:12 PM



USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 022-0026**

SHEET S1-01 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	33
CONTRACT NO. 62H04					

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck for expansion joints reconstruction and deck slab repairs, 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 the existing concrete.
- 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
- Fasteners shall be ASTM A325, Type 1 hot-dipped galvanized bolts. Holes shall be 13/16" dia. for 3/4" dia. bolts, and 15/16" dia. for 7/8" dia. bolts, unless otherwise noted.
- All Structural Steel shall conform to AASHTO M270 Grade 50 unless otherwise noted.
- Bars noted thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bars per line.
- All exposed concrete edges shall have a 3/4"x45° chamfer, except where shown otherwise.
- Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay. See Special Provisions.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Existing Structural Steel that will be in contact with new Structural Steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
- All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel or Structural Steel Repair as appropriate.
- During repair operations, the Contractor shall locate and protect all utilities or facilities in the vicinity of the work including, but not limited to, fiber optic and/or electrical conduits attached to the structure. This work shall be performed to the satisfaction of the Engineer and will not be paid for separately, but shall be included with the contract. It shall be the Contractor's responsibility to restore and replace any damaged utilities or facilities to the satisfaction of the Engineer at no cost to the Department.
- Debris shall be removed from the tops of pier caps, abutment caps and slopewalls. Quantities are estimated and actual locations will be determined in the field, at the time of construction, by the Engineer.

INDEX OF SHEETS

- S1-01 General Plan and Elevation
- S1-02 General Notes, Index of Sheets and Total Bill of Material
- S1-03 Stage Construction (Sheet 1 of 2)
- S1-04 Stage Construction (Sheet 2 of 2)
- S1-05 Temporary Concrete Barrier for Stage Construction
- S1-06 Bridge Deck Repair Plan
- S1-07 West Abutment Joint Removal and Reconstruction (Sheet 1 of 2)
- S1-08 West Abutment Joint Removal and Reconstruction (Sheet 2 of 2)
- S1-09 East Abutment Joint Removal and Reconstruction (Sheet 1 of 2)
- S1-10 East Abutment Joint Removal and Reconstruction (Sheet 2 of 2)
- S1-11 Preformed Joint Strip Seal-Sidewalk (Sheet 1 of 3)
- S1-12 Preformed Joint Strip Seal-Sidewalk (Sheet 2 of 3)
- S1-13 Preformed Joint Strip Seal-Sidewalk (Sheet 3 of 3)
- S1-14 Framing Plan
- S1-15 Structural Steel Repair Details
- S1-16 Elastomeric Bearings Details
- S1-17 West Abutment Repairs
- S1-18 East Abutment Repairs
- S1-19 Slopewall Removal and Reconstruction
- S1-20 Bar Splicer Assembly and Mechanical Splicer Details

SCOPE OF WORK

- Scarify 3/4" from the bridge deck slab.
- Perform partial depth repairs to approach pavement and bridge deck.
- Reconstruct bridge deck expansion joints at the East and West Abutments and install new preformed joint strip seals.
- Reseal relief joints.
- Apply a 2 1/2" bridge deck latex concrete overlay on bridge deck and 1 3/4" Hot-Mix Asphalt (HMA) Overlay on approach slab.
- Perform bridge deck grooving for the bridge deck.
- Apply protective coat on the reconstructed transverse expansion joint areas and reconstructed inside and top faces of the parapets.
- Partially remove and replace raised concrete median on the approach slabs (see Roadway Plans).
- Perform structural steel beam end repairs, and remove/replace end diaphragms, as shown on Sheets S1-14 and S1-15 .
- Remove and replace expansion bearings at the East and West Abutments with elastomeric bearings and steel extensions.
- Perform structural concrete repairs for the Abutments as noted on the plans.
- Remove debris from tops of pier caps, abutment caps and slopewalls.
- Clean all deck drains.
- Partially remove concrete slope wall and replace with stone riprap, Class A5 at east end.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
STONE RIPRAP, CLASS A5	SQ YD	-	110	110
FILTER FABRIC	SQ YD	-	110	110
CONCRETE REMOVAL	CU YD	35.2	-	35.2
SLOPE WALL REMOVAL	SQ YD	-	75	75
CONCRETE STRUCTURES	CU YD	-	0.6	0.6
CONCRETE SUPERSTRUCTURE	CU YD	38.5	-	38.5
BRIDGE DECK GROOVING	SQ YD	1454	-	1454
PROTECTIVE COAT	SQ YD	96	-	96
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	12400	-	12400
REINFORCEMENT BARS, EPOXY COATED	POUND	5040	-	5040
BAR SPLICERS	EACH	52	-	52
PREFORMED JOINT STRIP SEAL	FOOT	250	-	250
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	32	-	32
ANCHOR BOLTS, 1"	EACH	64	-	64
CLEAN & RESEAL RELIEF JOINT	FOOT	170	-	170
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	2.3	-	2.3
JACK AND REMOVE EXISTING BEARINGS	EACH	32	-	32
STRUCTURAL STEEL REMOVAL	POUND	6660	-	6660
STRUCTURAL STEEL REPAIR	POUND	1800	-	1800
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	1519	-	1519
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1519	-	1519
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	-	98	98
DEBRIS REMOVAL	CU YD	3	-	3

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\02200220026-62H04-002-GenNotes.dgn

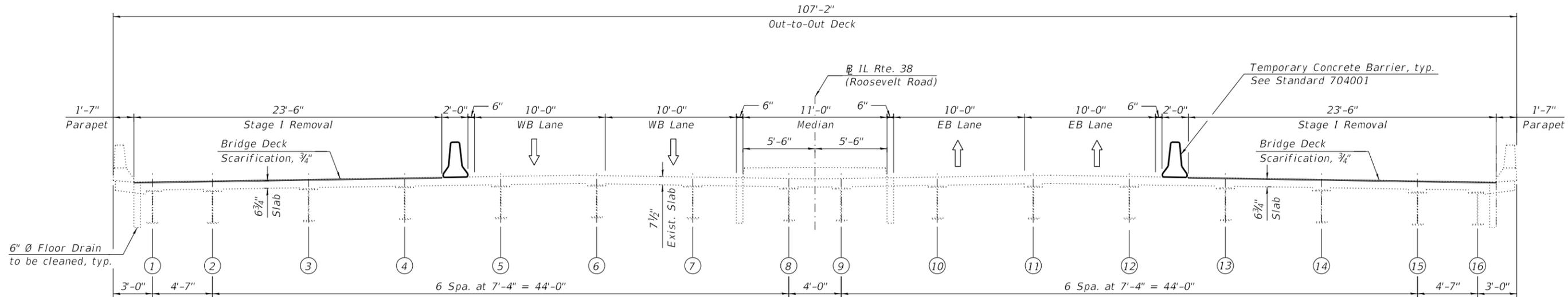


USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 01/09/2019	REVISED -

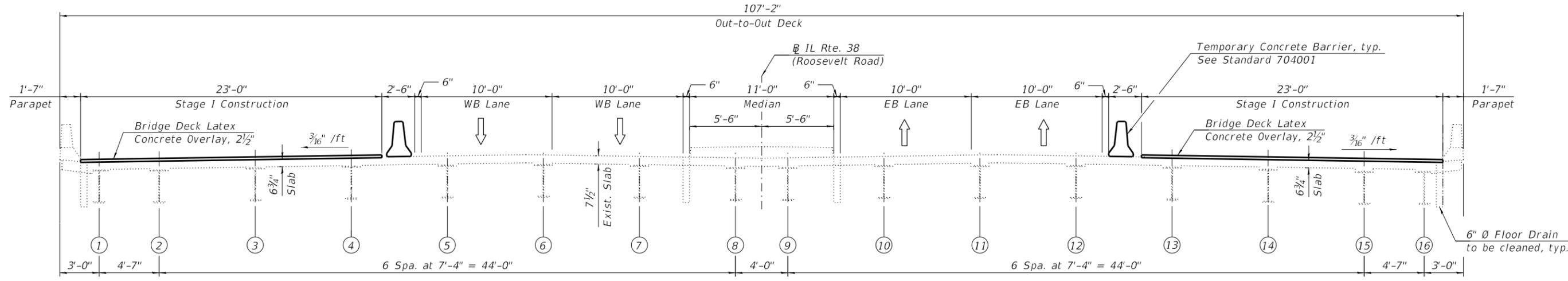
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
STRUCTURE NO. 022-0026**

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	34
CONTRACT NO. 62H04					
			ILLINOIS	FED. AID PROJECT	



STAGE I REMOVAL
(Looking East)



STAGE I CONSTRUCTION
(Looking East)

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0220220026-62H04-003-Staging1.dgn
 12/10/2018 5:14:17 PM



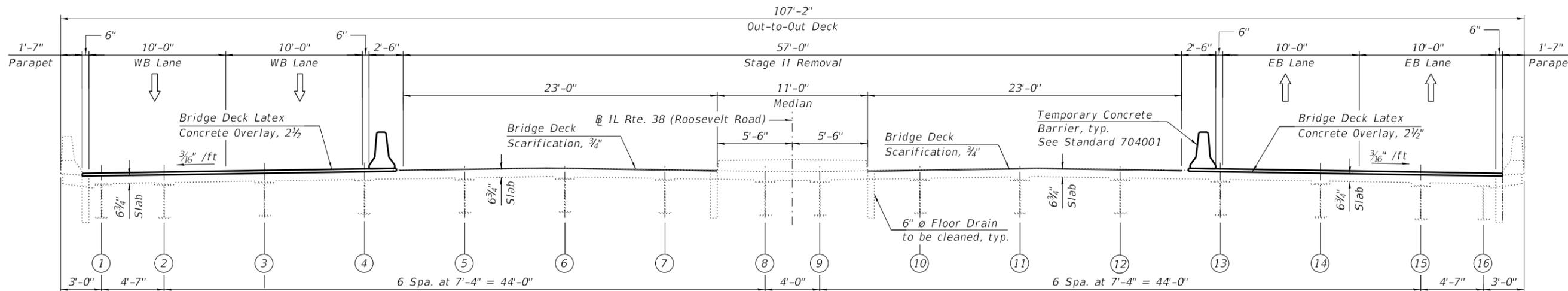
USER NAME =	DESIGNED - MAA	REVISED -
CHECKED - MI, MAI	REVISOR -	
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

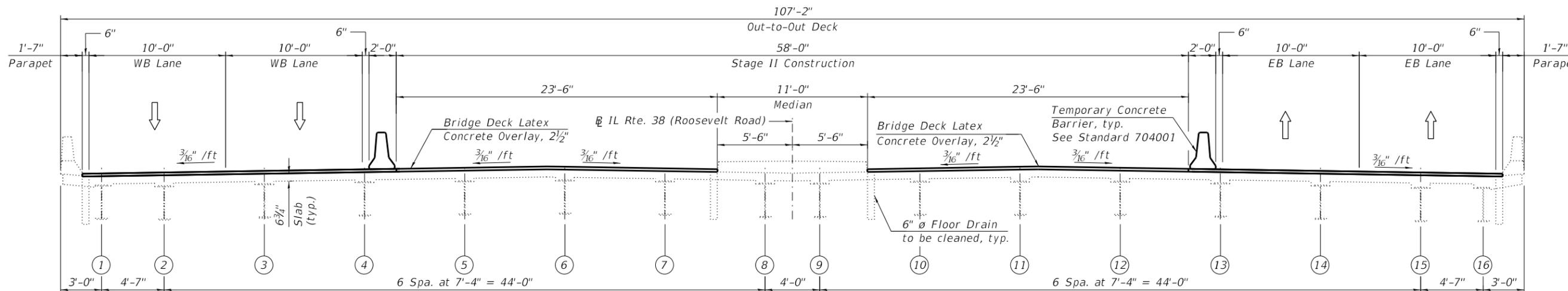
STAGE CONSTRUCTION (SHEET 1 OF 2)
STRUCTURE NO. 022-0026

SHEET S1-03 OF S1-20 SHEETS

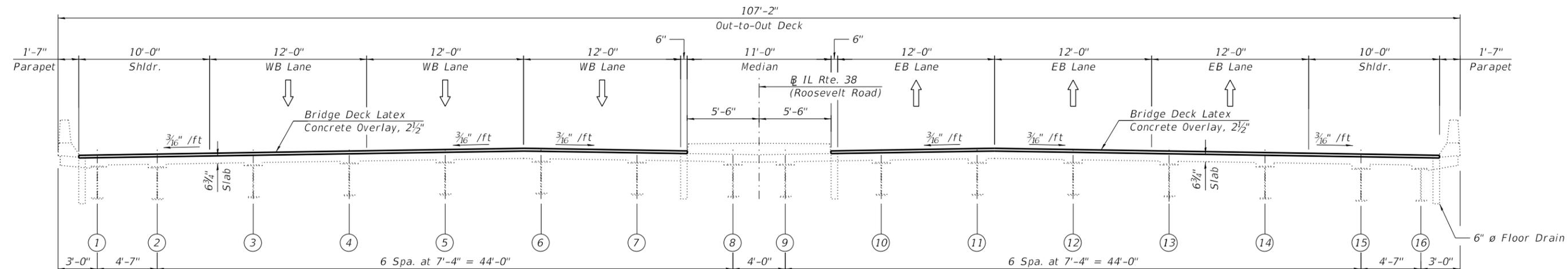
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	35
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



STAGE II REMOVAL
(Looking East)



STAGE II CONSTRUCTION
(Looking East)



FINAL CROSS SECTION
(Looking East)

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0220220026-62\H04-004-Staging2.dgn
12/10/2018 5:14:18 PM



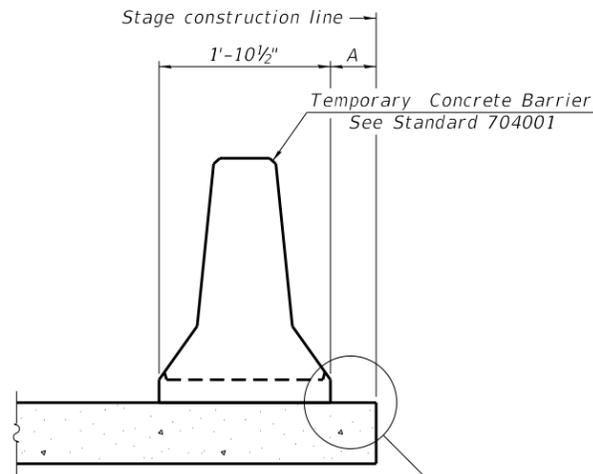
USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION (SHEET 2 OF 2)
STRUCTURE NO. 022-0026

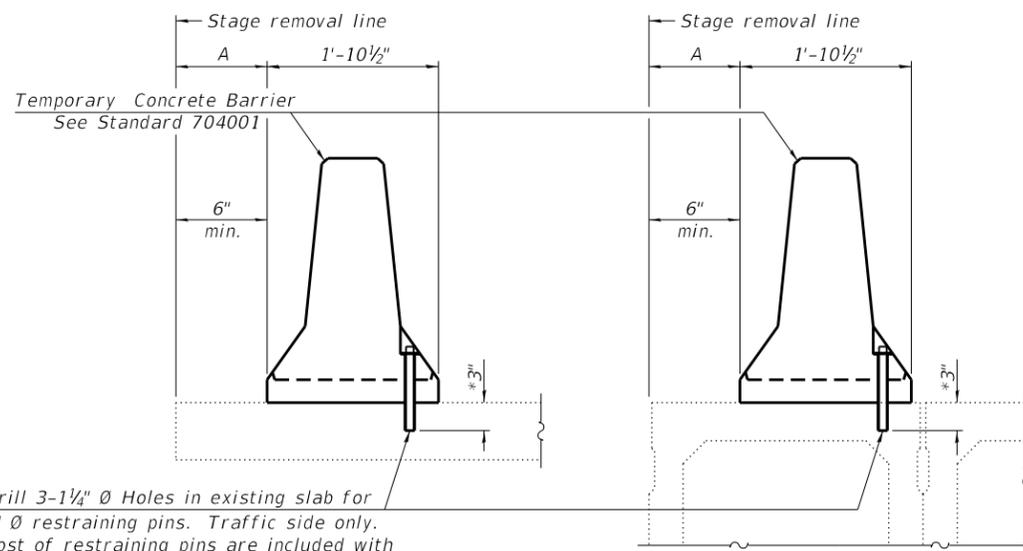
SHEET S1-04 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	36
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



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

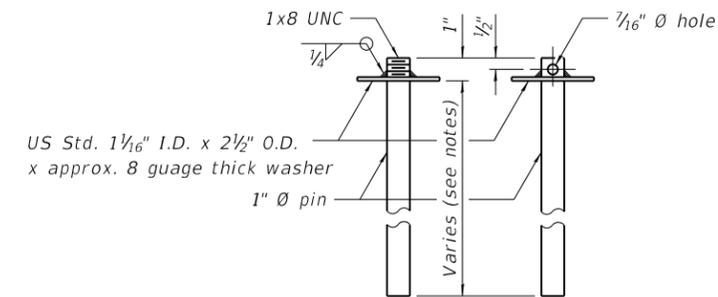


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

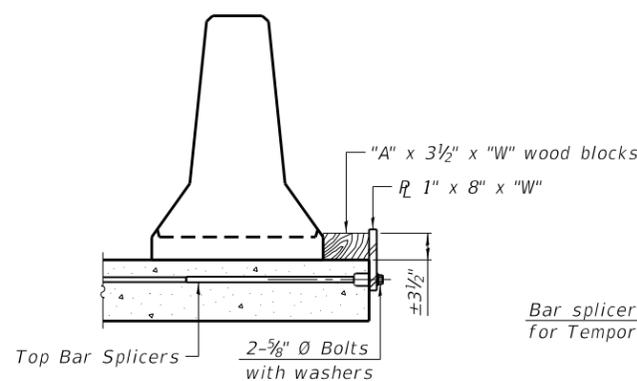
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM



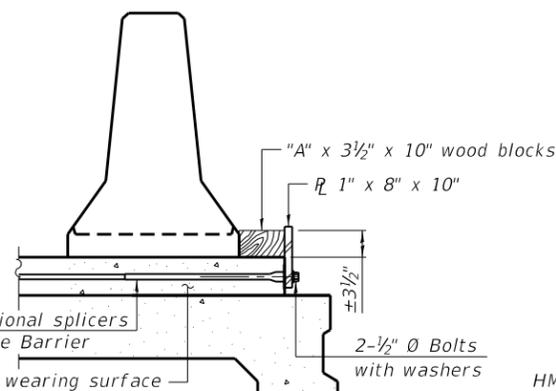
RESTRAINING PIN

SECTIONS THRU SLAB OR DECK BEAM

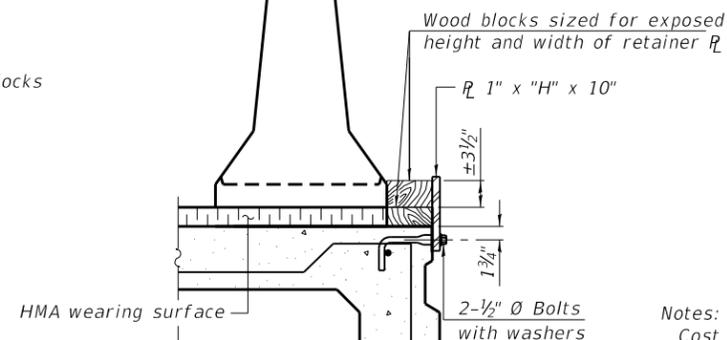


DETAIL I

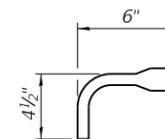
Bar splicers and additional splicers for Temporary Concrete Barrier



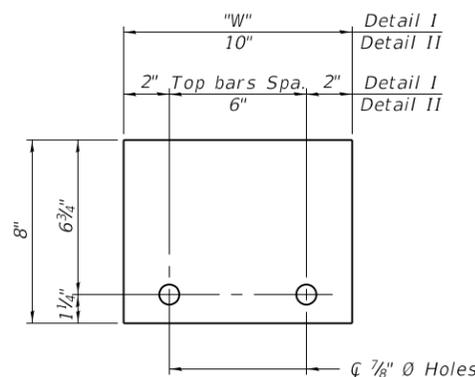
DETAIL II



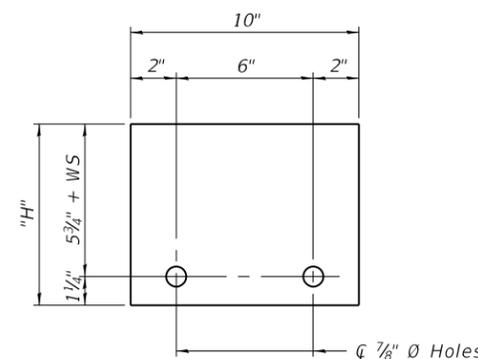
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER R 1" x "H" x 10"
(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.

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\00260220026-62H04-005-TCB.dgn

R-27 8-11-2017



USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 022-0026

SHEET S1-05 OF S1-20 SHEETS

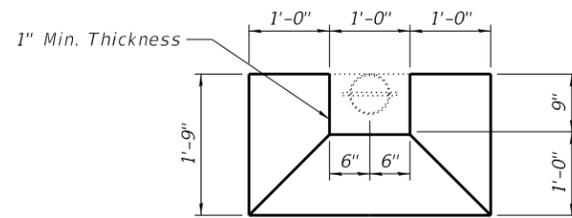
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	37
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

BILL OF MATERIAL

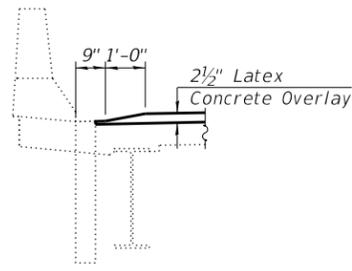
ITEM	UNIT	QUANTITY
Bridge Deck Grooving	SQ YD	1454
Clean and Reseal Relief Joint	FOOT	170
Approach Slab Repair (Partial Depth)	SQ YD	2.3
Bridge Deck Latex Concrete Overlay, 2 1/2"	SQ YD	1519
Bridge Deck Scarification 3/4"	SQ YD	1519

NOTES:

1. Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross section, see Sheet S1-04.
3. For West and East Abutments transverse joint removal and reconstruction, see Sheets S1-07 thru S1-10.
4. Perform bridge deck grooving for the bridge deck latex concrete overlay and the roadway portions of the reconstructed transverse joints.
5. Protective coat shall be applied to top and inside face of parapets, median and the reconstructed transverse expansion joint areas.
6. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.
7. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.

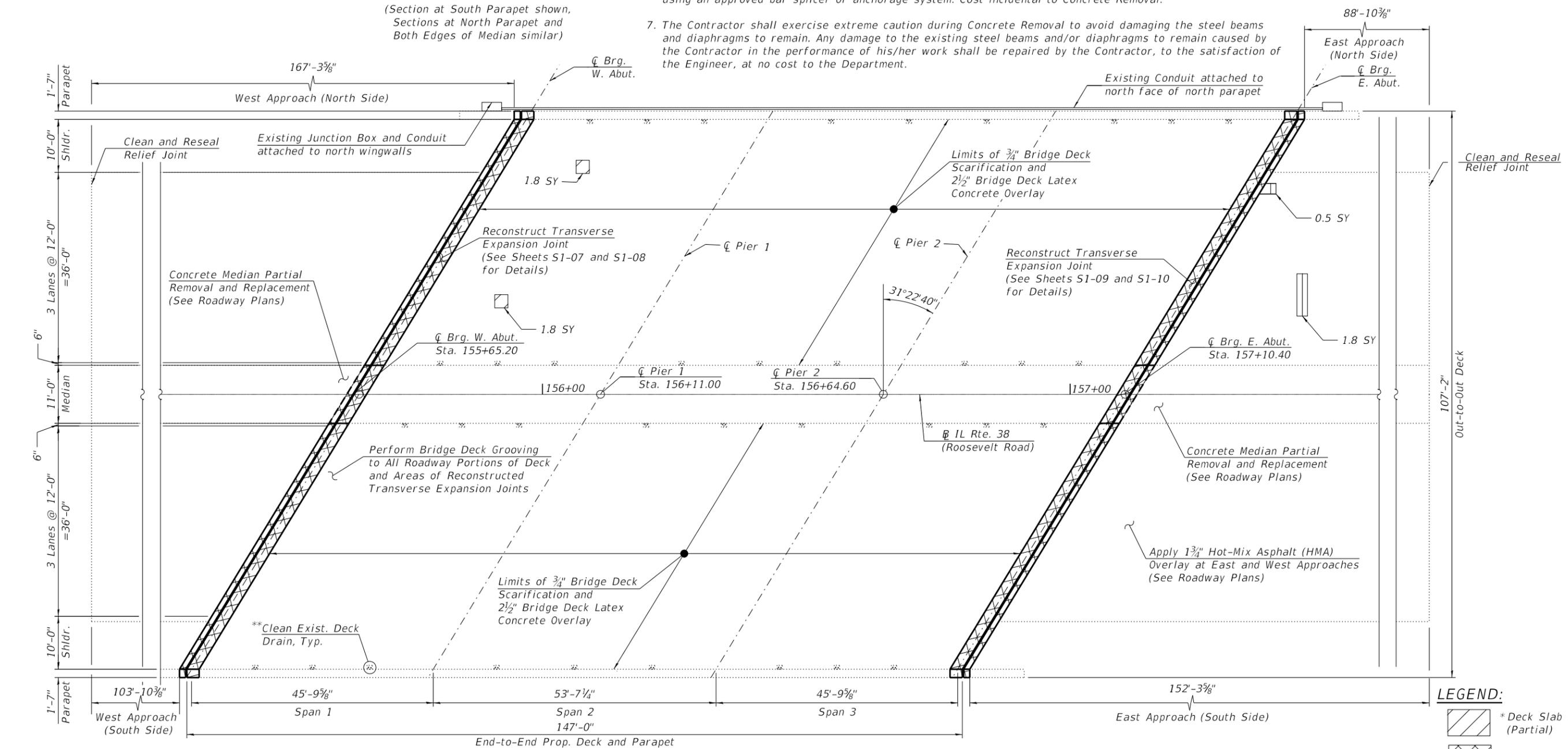


TOP PLAN



SECTION AT DECK DRAIN

(Section at South Parapet shown, Sections at North Parapet and Both Edges of Median similar)



DECK PLAN

** Cleaning existing deck drains is included in the cost of Bridge Deck Scarification 3/4".

*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 1/2".

LEGEND:

- * Deck Slab Repair (Partial)
- Concrete Removal
- Approach Slab Repair (Partial Depth)

SY - Sq. Yd.

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0220026-62\H04-006-DeckRepair.dgn



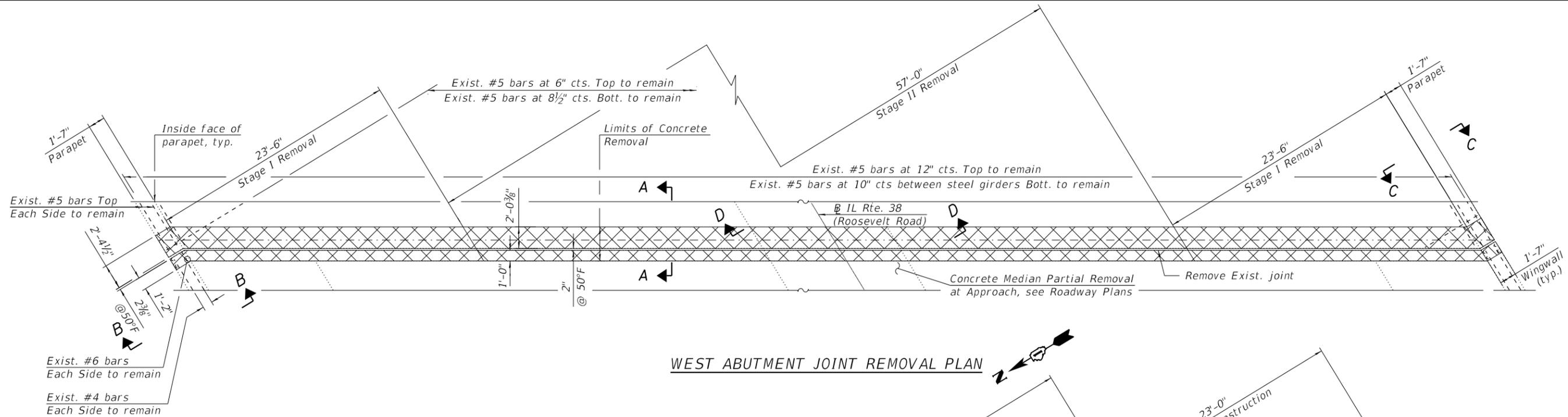
USER NAME =	DESIGNED - EK	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - EK, MS	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

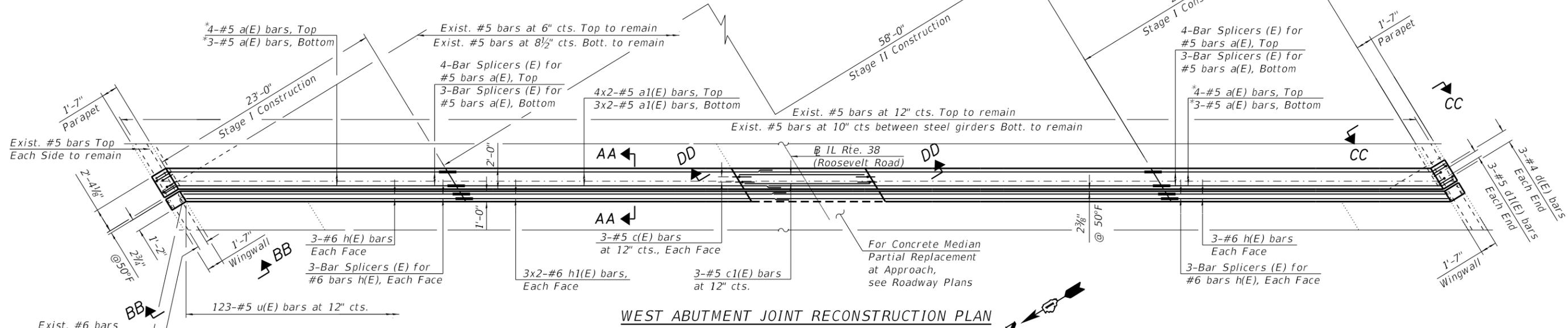
**BRIDGE DECK REPAIR PLAN
STRUCTURE NO. 022-0026**

SHEET S1-06 OF S1-20 SHEETS

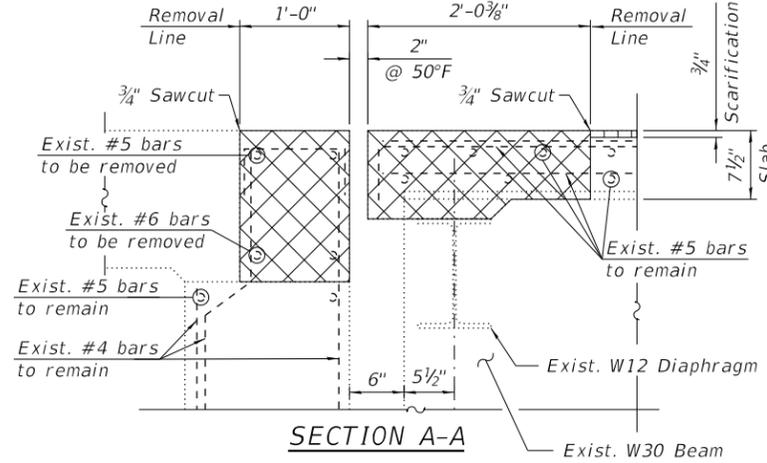
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	38
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



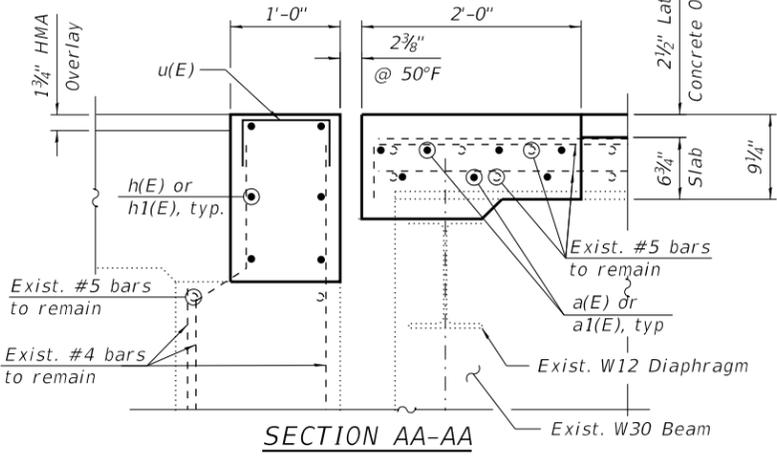
WEST ABUTMENT JOINT REMOVAL PLAN



WEST ABUTMENT JOINT RECONSTRUCTION PLAN



SECTION A-A



SECTION AA-AA

Bar Laps
 #5 = 3'-6"
 #6 = 3'-7"

LEGEND:
 Concrete Removal
 Scarification

*Cut and bend to fit in field in accordance with Art. 508.04 of the Standard Specification.

NOTE:
 1. For Notes, Bill of Material, and Sections B-B, C-C, D-D, BB-BB, CC-CC, and DD-DD, see Sheet S1-08.

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt_Creek\Sheets\0220220026-62H04-007-WAbutment1.dgn
 12/10/2018 5:14:24 PM



USER NAME =	DESIGNED - SK, EK	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - EK	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT JOINT REMOVAL AND RECONSTRUCTION (SHT 1 of 2)
 STRUCTURE NO. 022-0026
 SHEET S1-07 OF S1-20 SHEETS

F.A.P. RTE. 347	F.A.U. RTE. 550	SECTION 2018-044-BD&BJR	COUNTY DU PAGE	TOTAL SHEETS 74	SHEET NO. 39
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

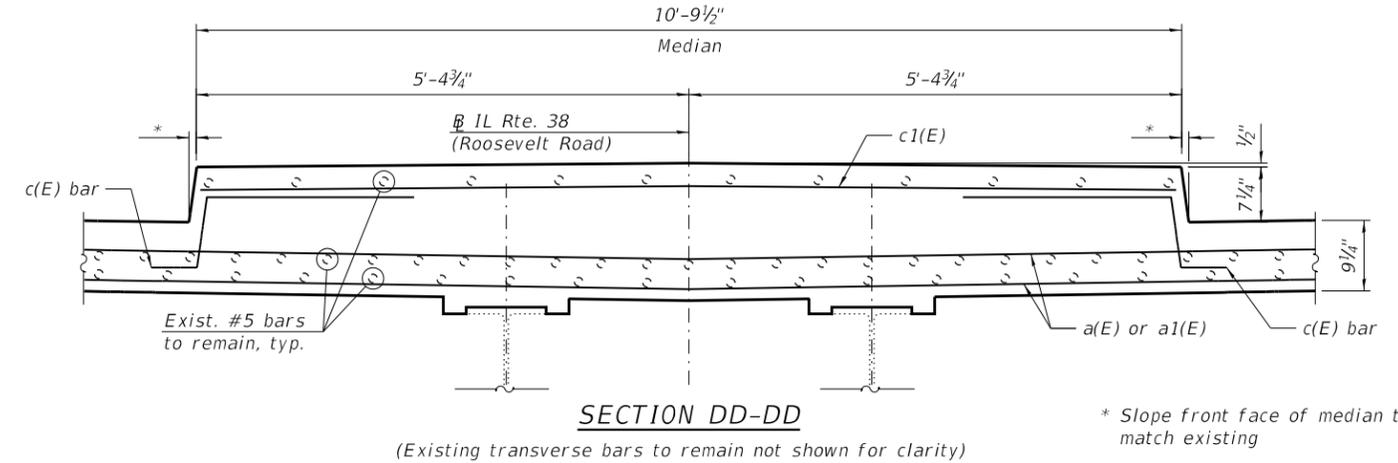
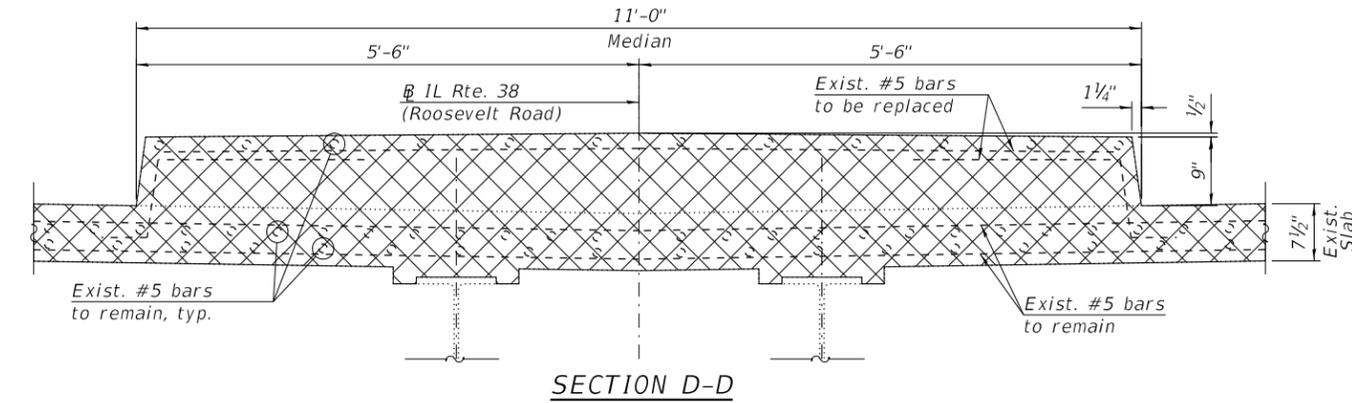
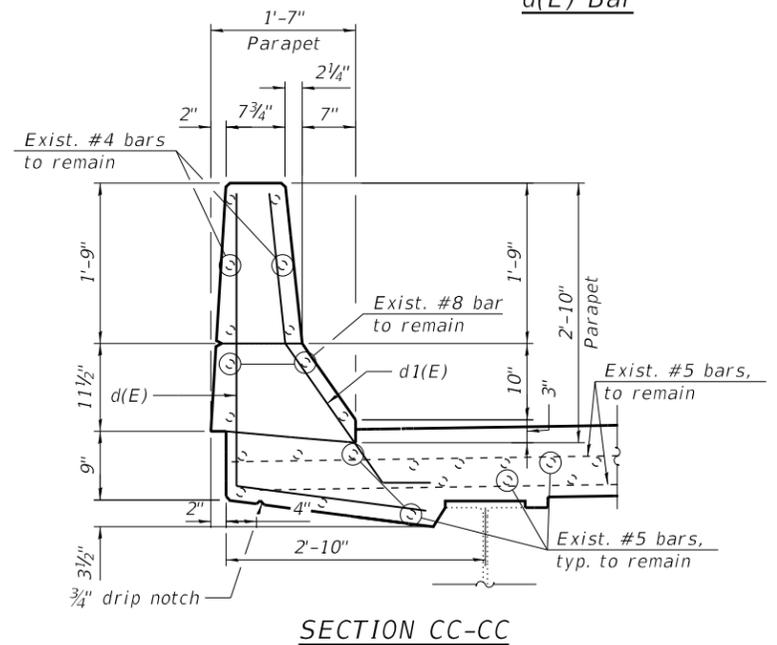
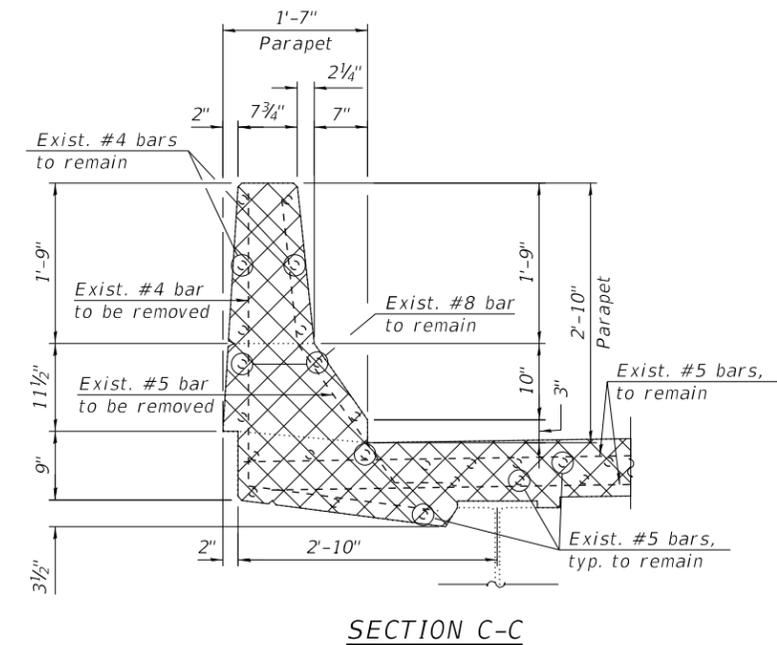
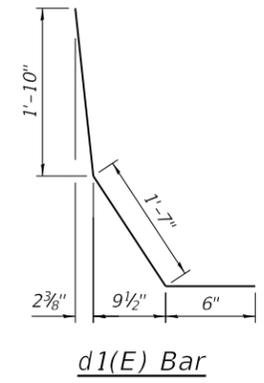
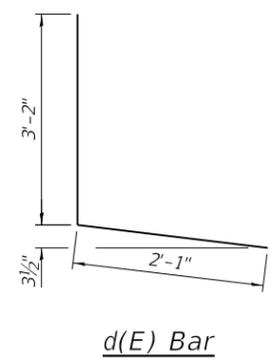
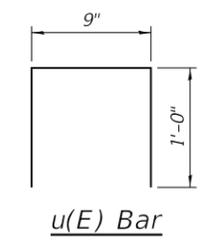
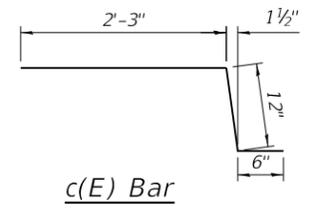
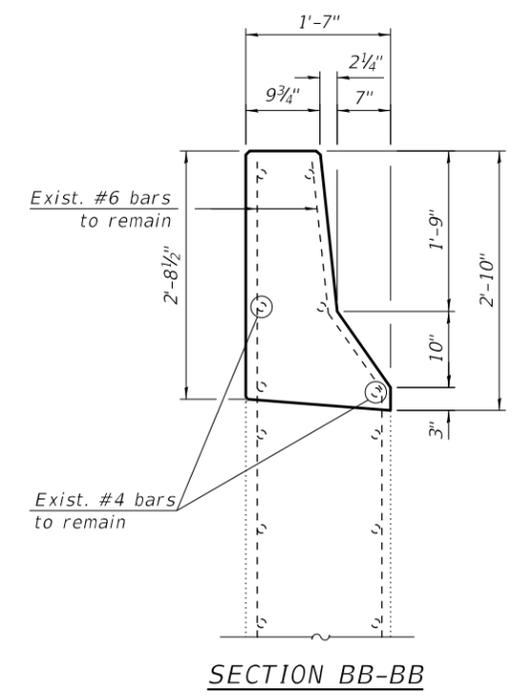
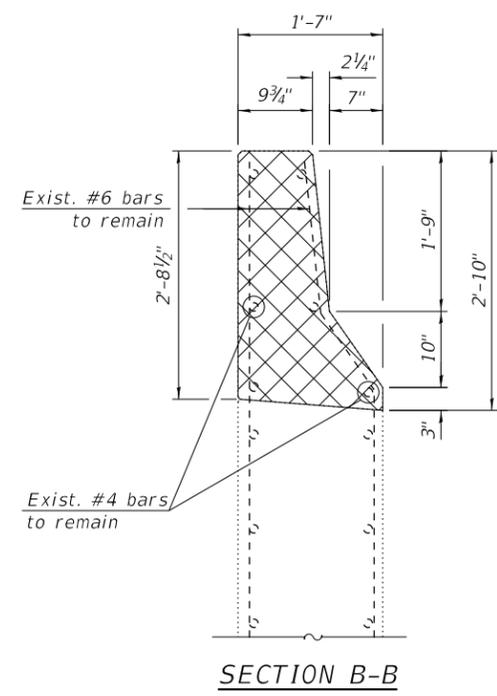
BILL OF MATERIAL

BAR	No.	SIZE	LENGTH	SHAPE
a(E)	14	#5	28'-3"	—
a1(E)	14	#5	35'-8"	—
c(E)	6	#5	3'-9"	—
c1(E)	3	#5	12'-7"	—
d(E)	6	#4	5'-3"	—
d1(E)	6	#5	3'-11"	—
h(E)	12	#6	26'-8"	—
h1(E)	12	#6	35'-8"	—
u(E)	123	#5	2'-9"	—
Concrete Removal			Cu. Yd.	17.0
Concrete Structures			Cu. Yd.	0.3
Concrete Superstructure			Cu. Yd.	18.6
Protective Coat			Sq. Yd.	48
Reinforcement Bars, Epoxy Coated			Pound	2,520

NOTES:

- For preformed joint strip seal details, see Sheets S1-11 thru S1-13.
- For bar splicer assembly details, see Sheet S1-20.
- 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 electric conduit attached to the north parapet provides power to the overhead sign structure west of the bridge. The lighting on the overhead sign must be kept operational at all times. The Contractor shall be responsible to protect the existing conduit and junction box attached to the north parapet during removal and construction. Any damage to the existing conduit and junction box shall be repaired by the Contractor at his or her expense and at no charge to the Department.
- The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- Protective coat shall be applied to the top and inside faces of reconstructed parapets, medians and transverse joints.

LEGEND



MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\00260220026-62H04-008-WAbut12.dgn
1/17/2019 8:46:50 AM

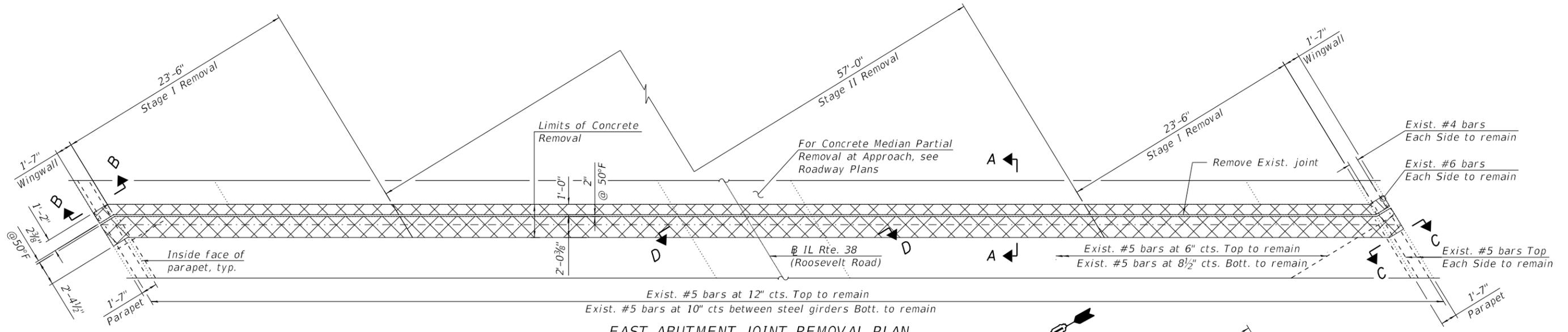


USER NAME =	DESIGNED - SK, EK	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - EK	REVISED -
	DATE - 01/09/2019	REVISED -

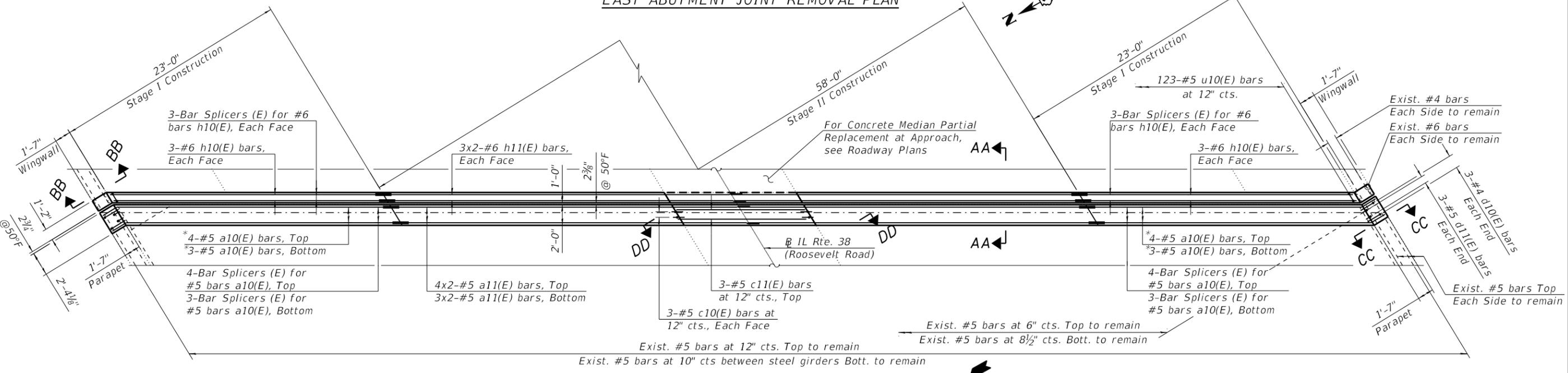
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT JOINT REMOVAL AND RECONSTRUCTION (SHT 2 of 2)
STRUCTURE NO. 022-0026**

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	40
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



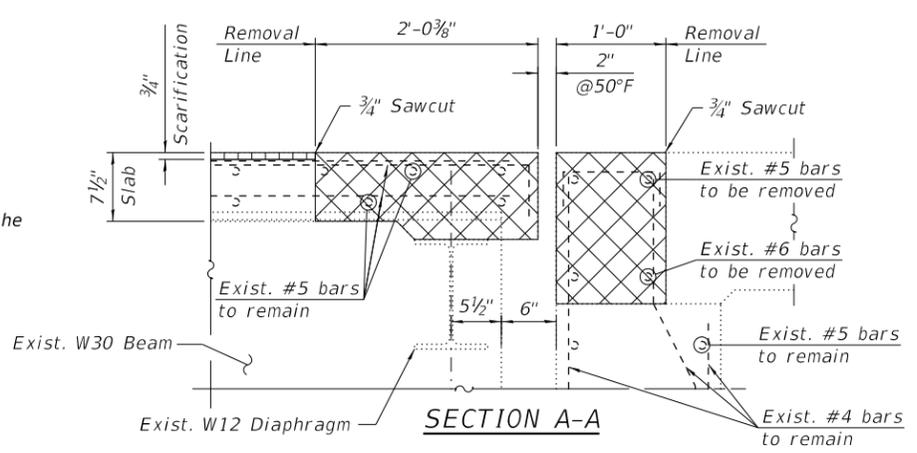
EAST ABUTMENT JOINT REMOVAL PLAN



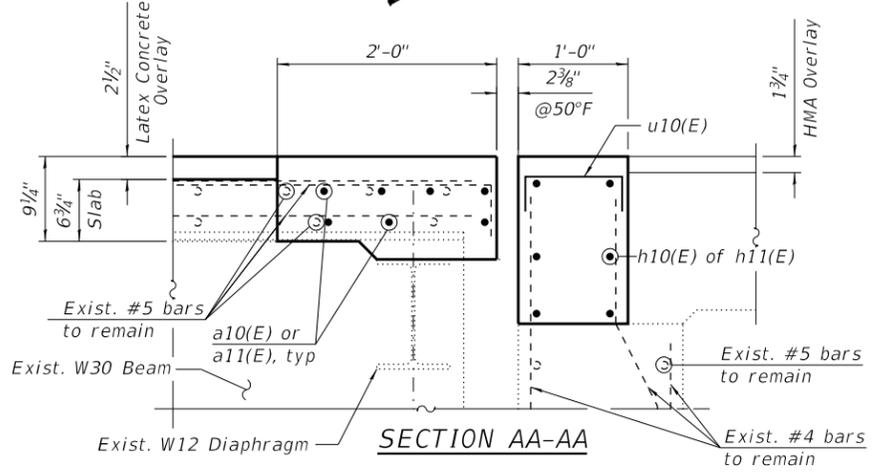
EAST ABUTMENT JOINT RECONSTRUCTION PLAN

Bar Lap
 #5 = 3'-6"
 #6 = 3'-7"

*Cut and Bend to fit in field in accordance with Art. 508.04 of the Standard Specifications

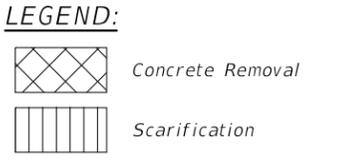


SECTION A-A



SECTION AA-AA

NOTE:
 1. For Notes, Bill of Material and Sections B-B, C-C, D-D, BB-BB, CC-CC, and DD-DD, see Sheet S1-10.



MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0226\0220026-62\H04-009-EAbutJ1.dgn
 12/10/2018 5:14:29 PM



USER NAME =	DESIGNED - SK, EK	REVISED -
CHECKED - MI, MAI	REVISED -	
PLOT SCALE =	DRAWN - EK	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

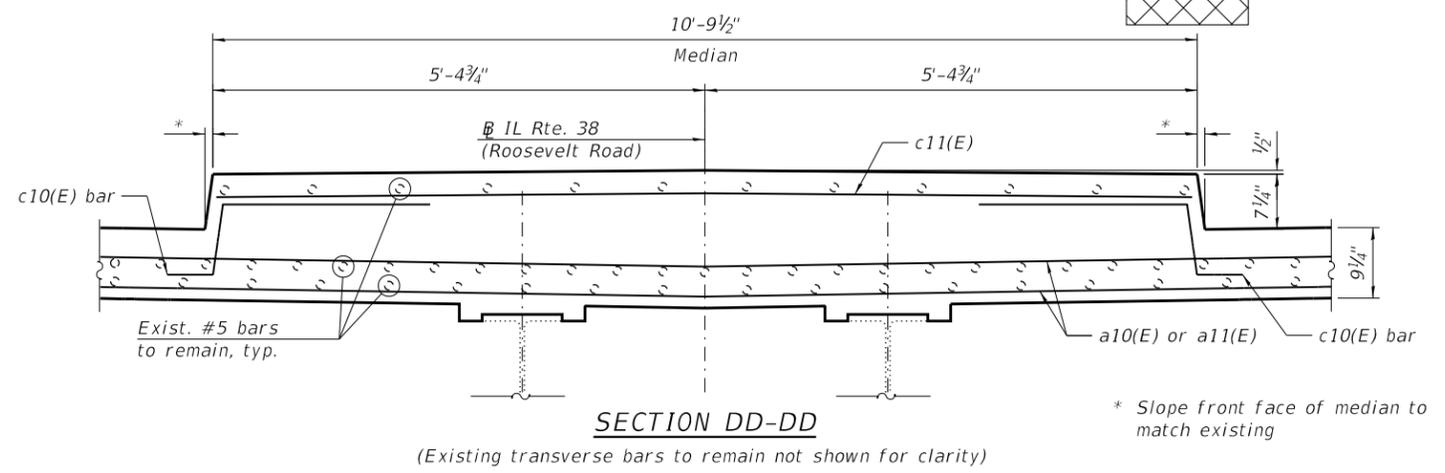
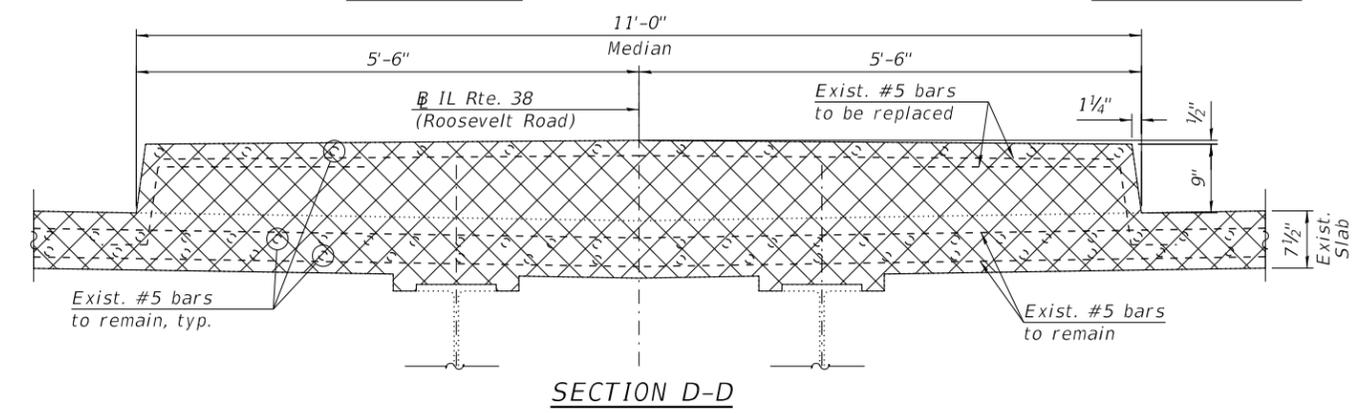
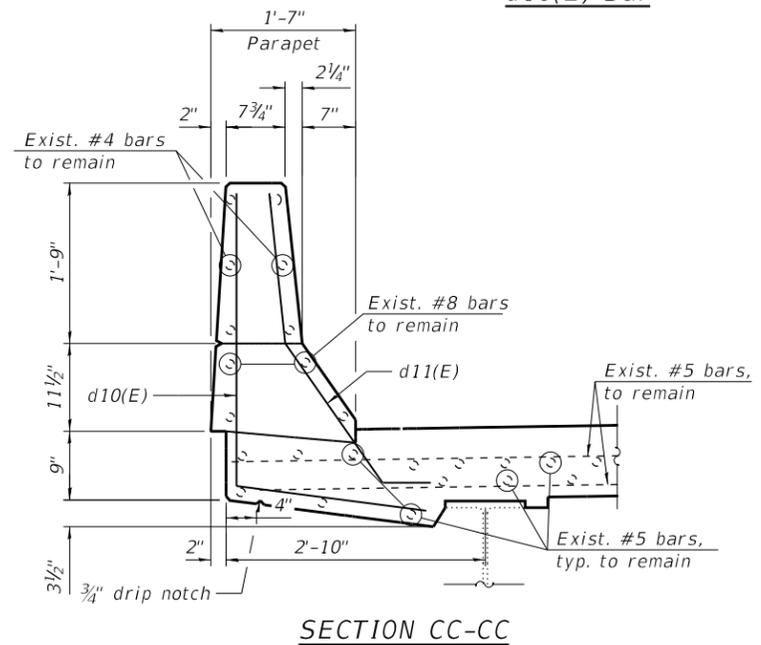
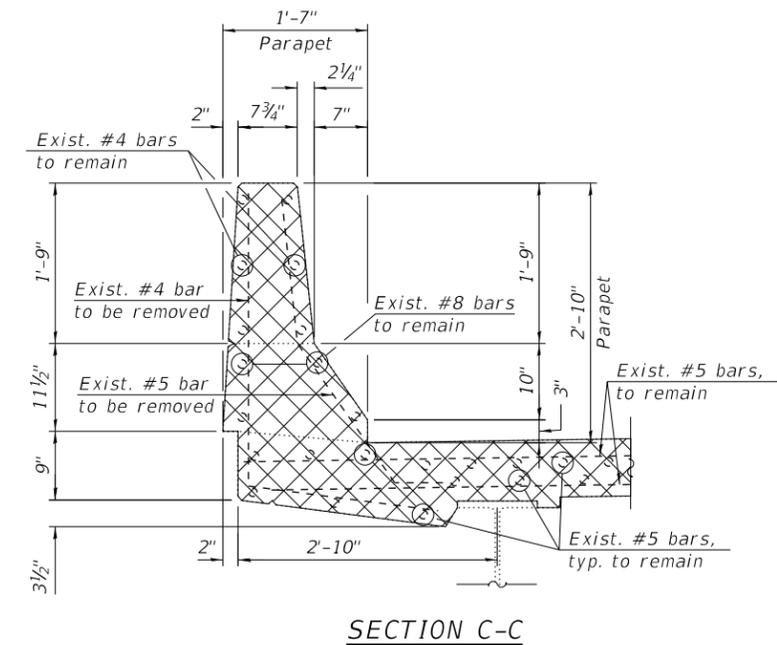
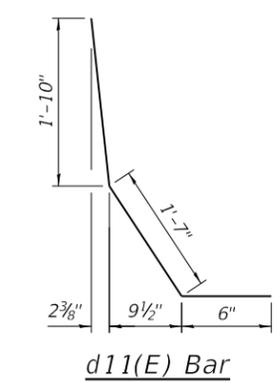
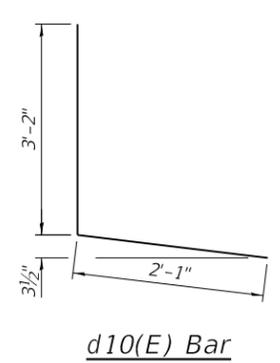
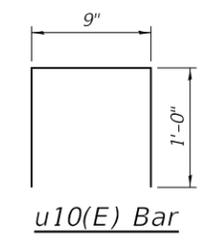
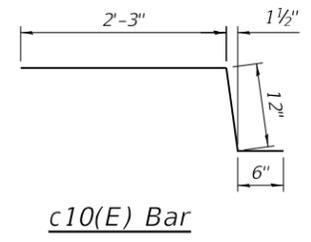
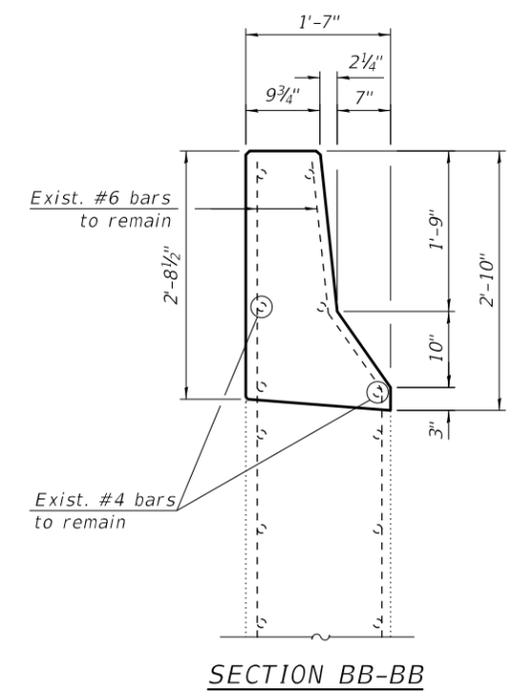
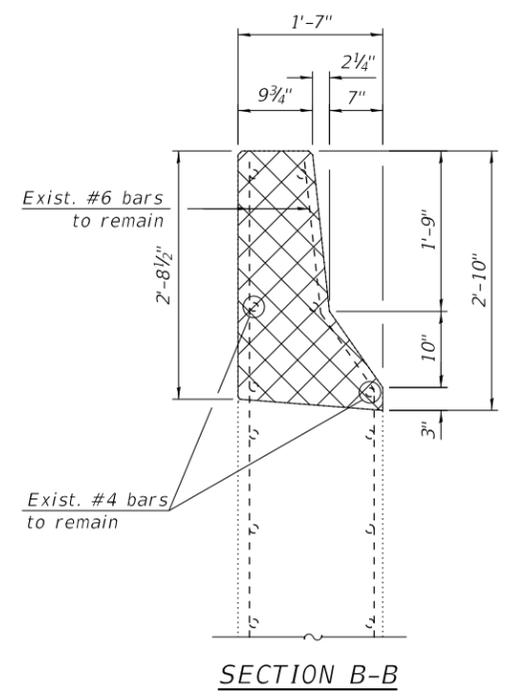
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EAST ABUTMENT JOINT REMOVAL AND RECONSTRUCTION (SHT 1 OF 2)
STRUCTURE NO. 022-0026
 SHEET S1-09 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	41
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

BILL OF MATERIAL

BAR	No.	SIZE	LENGTH	SHAPE
a10(E)	14	#5	28'-3"	—
a11(E)	14	#5	35'-8"	—
c10(E)	6	#5	3'-9"	⌒
c11(E)	3	#5	12'-7"	—
d10(E)	6	#4	5'-3"	⌒
d11(E)	6	#5	3'-11"	⌒
h10(E)	12	#6	26'-8"	—
h11(E)	12	#6	35'-8"	—
u10(E)	123	#5	2'-9"	⌒
Concrete Removal			Cu. Yd.	18.2
Concrete Structures			Cu. Yd.	0.3
Concrete Superstructure			Cu. Yd.	19.9
Protective Coat			Sq. Yd.	48
Reinforcement Bars, Epoxy Coated			Pound	2,520



NOTES:

- For preformed joint strip seal details, see Sheets S1-11 thru S1-13.
- For bar splicer assembly details, see Sheet S1-20.
- 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 Contractor shall be responsible to protect the existing conduit and junction box attached to the north parapet during removal and construction. Any damage to the existing conduit and junction box shall be repaired by the Contractor at his or her expense and at no charge to the Department.
- The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the steel beams and diaphragms to remain. Any damage to the existing steel beams and/or diaphragms to remain caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- Protective coat shall be applied to the top and inside faces of reconstructed parapets, medians and transverse joints.

* Slope front face of median to match existing

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0220026-62\H04-010-E\Abut12.dgn
12/10/2018 5:14:30 PM



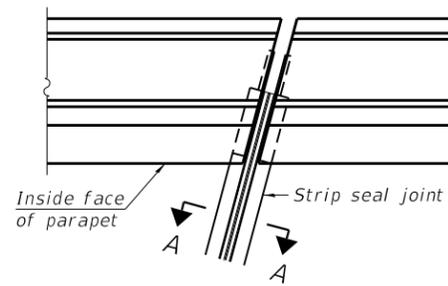
USER NAME =	DESIGNED - SK, EK	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - EK	REVISED -
	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT JOINT REMOVAL AND RECONSTRUCTION (SHT 2 of 2)
STRUCTURE NO. 022-0026**

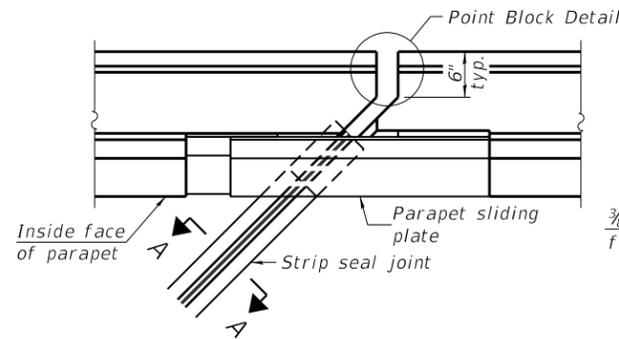
SHEET S1-10 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	42
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

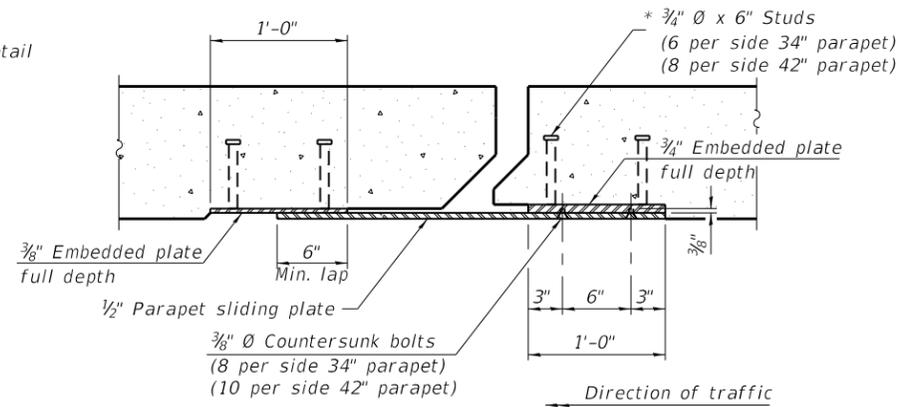


FOR SKEWS $\leq 30^\circ$

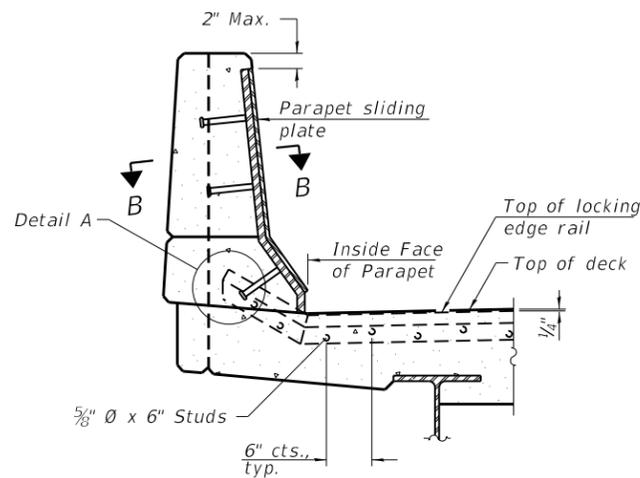
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

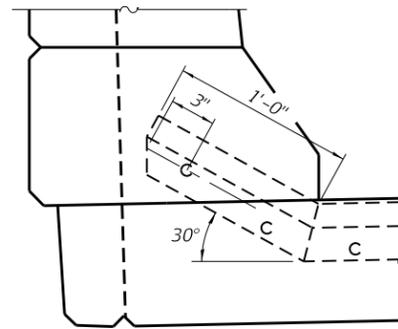


SECTION B-B

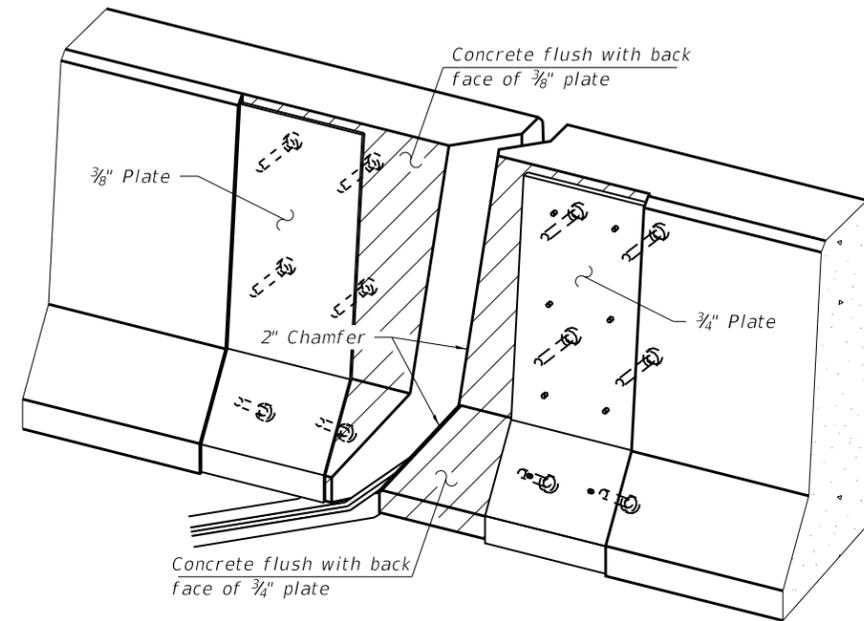


ELEVATION AT PARAPET

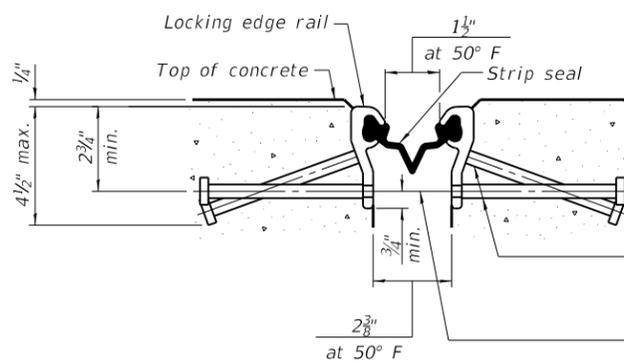
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



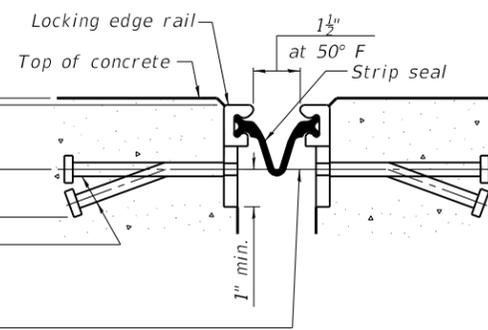
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

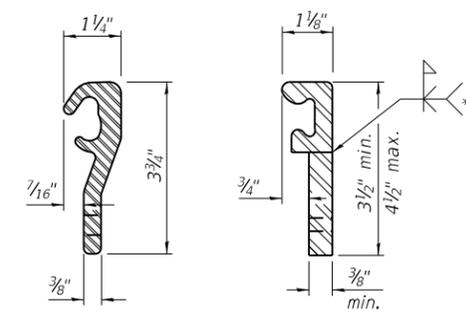
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

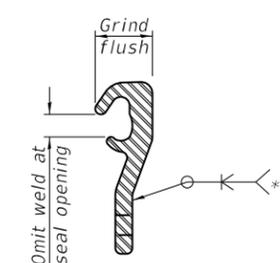


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** 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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	250

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt_Creek\Sheets\00260220026-62\H04-011-PP1.dgn

EJ-SS-S

8-11-17

HBM
ENGINEERING GROUP, LLC

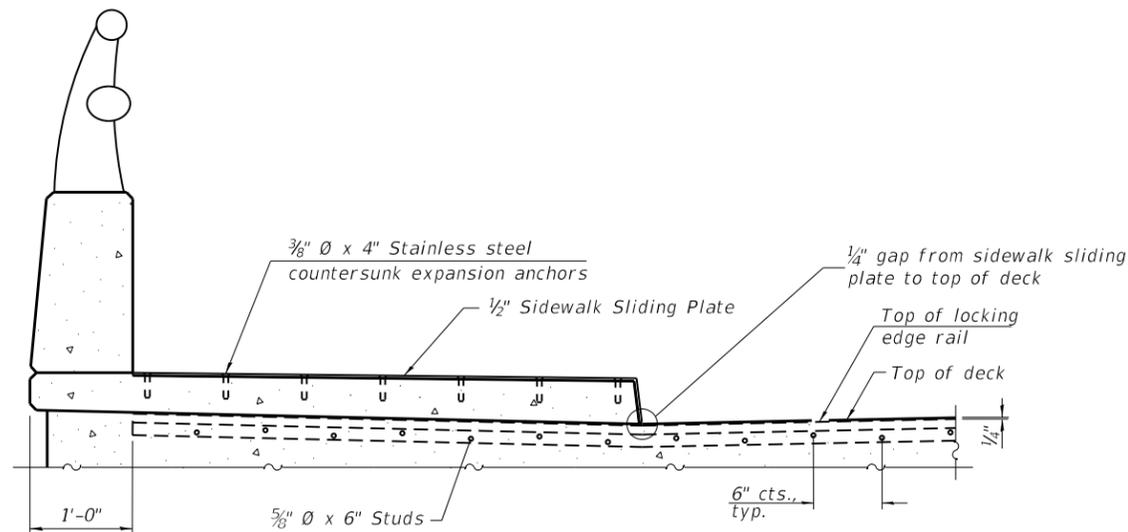
USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

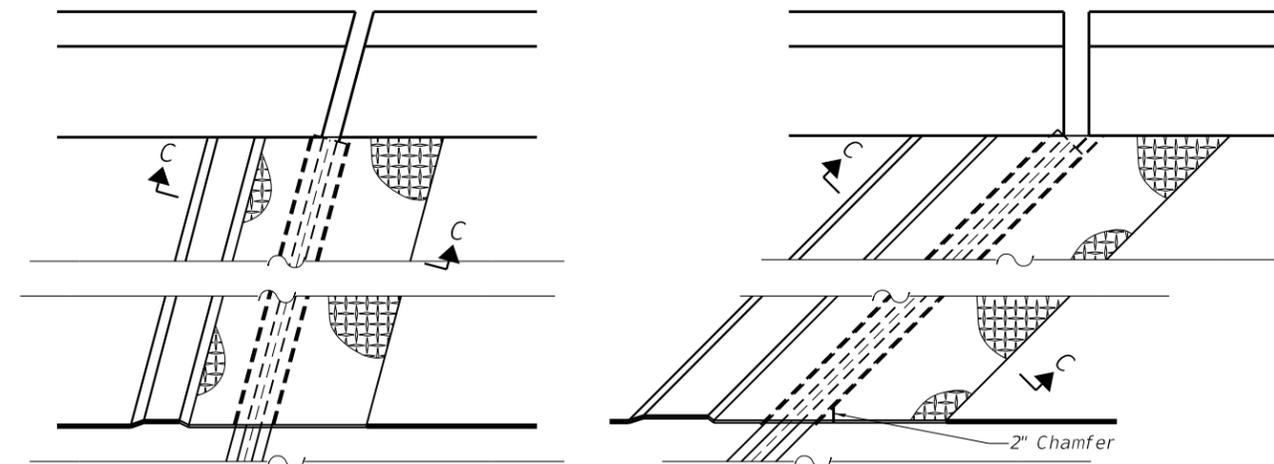
PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 1 OF 3)
STRUCTURE NO. 022-0026

SHEET S1-11 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	43
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



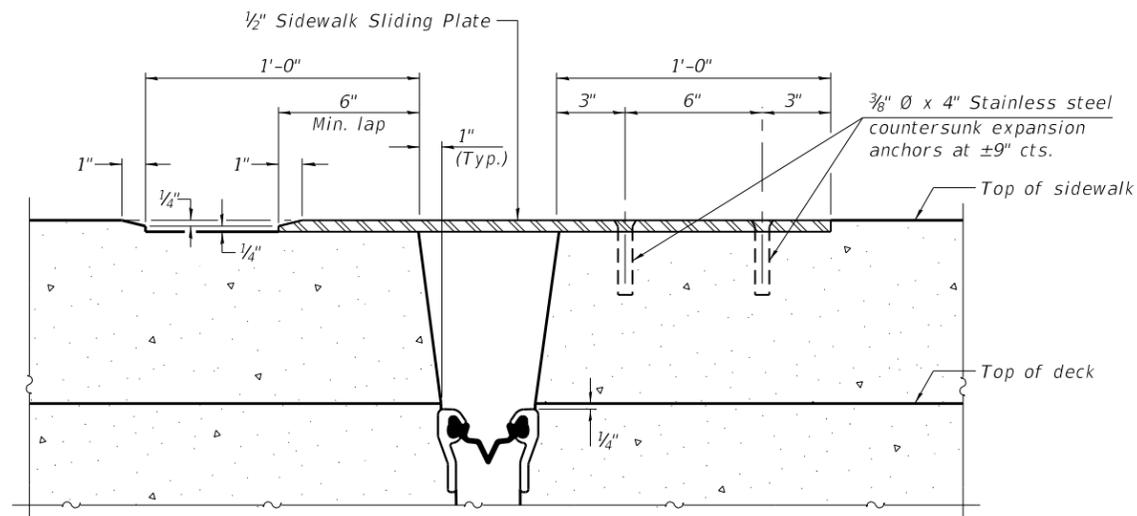
ELEVATION AT RAISED SIDEWALK



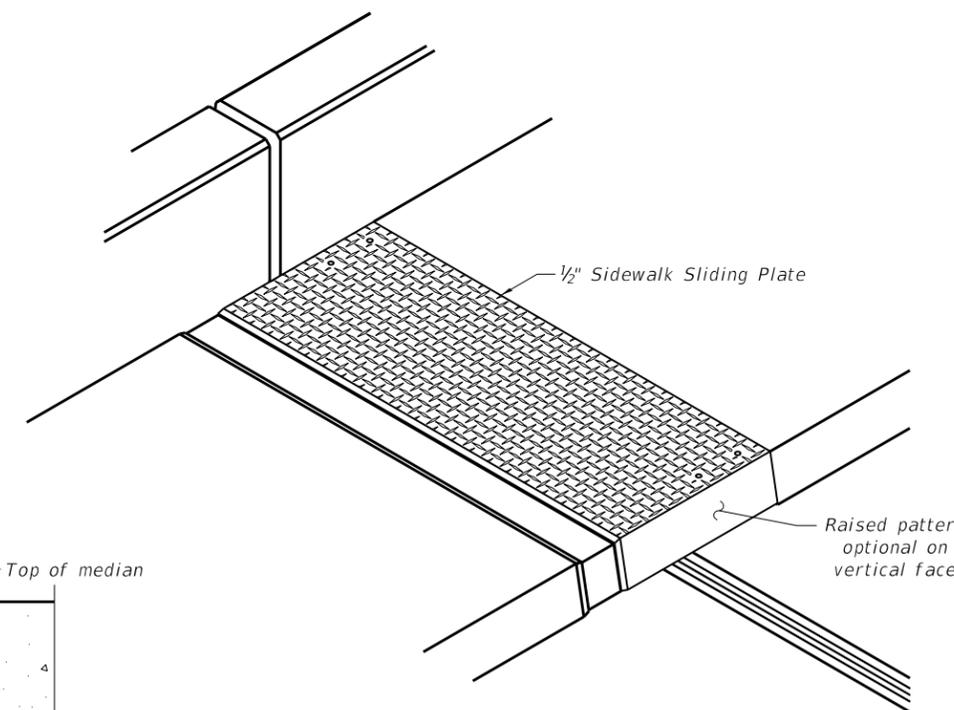
(FOR SKEWS $\leq 30^\circ$)

(FOR SKEWS $> 30^\circ$)

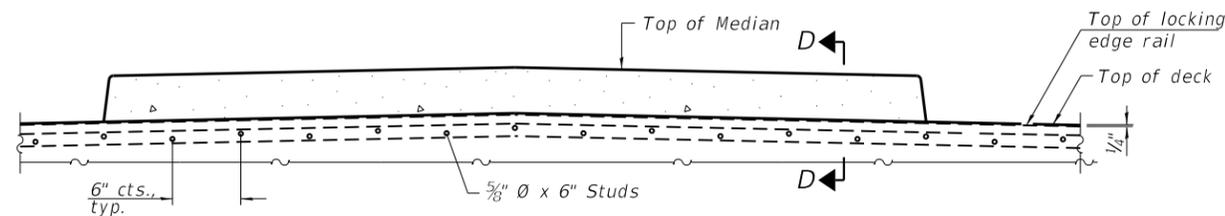
PLAN AT RAISED SIDEWALK



SECTION C-C

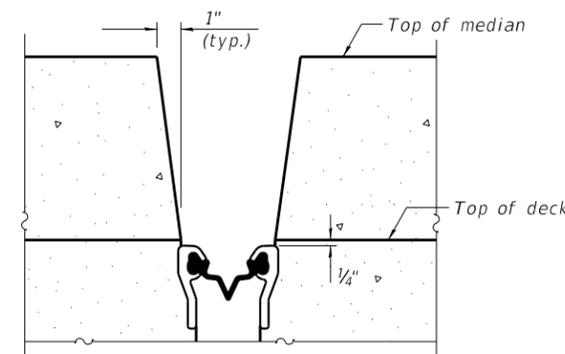


TRIMETRIC VIEW



ELEVATION AT MEDIAN

For skews $> 30^\circ$, chamfer acute corners 2" similar to sidewalk.



SECTION D-D
(at Rt. L's)

EJ-SS-S

8-11-17

(Sheet 2 of 3)

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0026\0220026-62\H04-012-P\F2.dgn



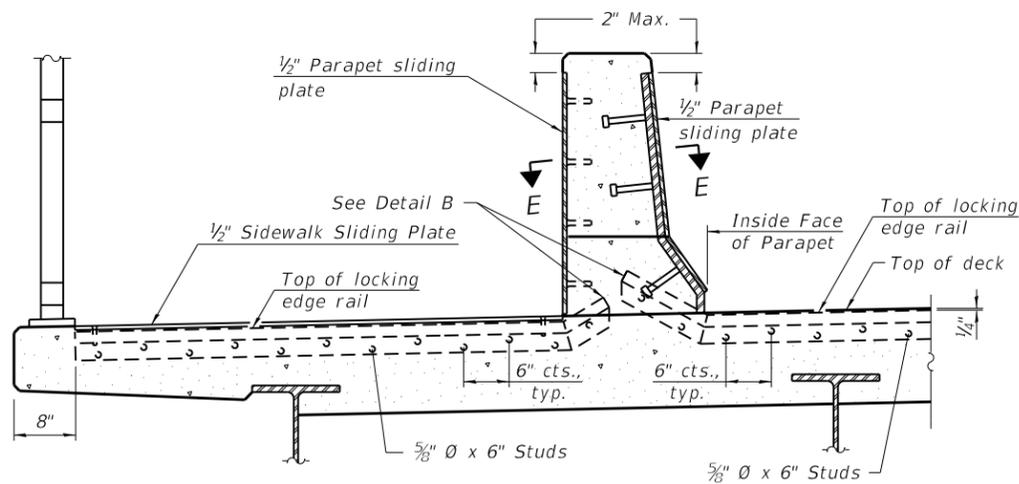
USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

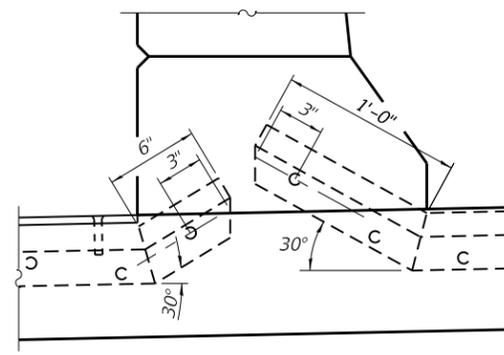
PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 2 OF 3)
STRUCTURE NO. 022-0026

SHEET S1-12 OF S1-20 SHEETS

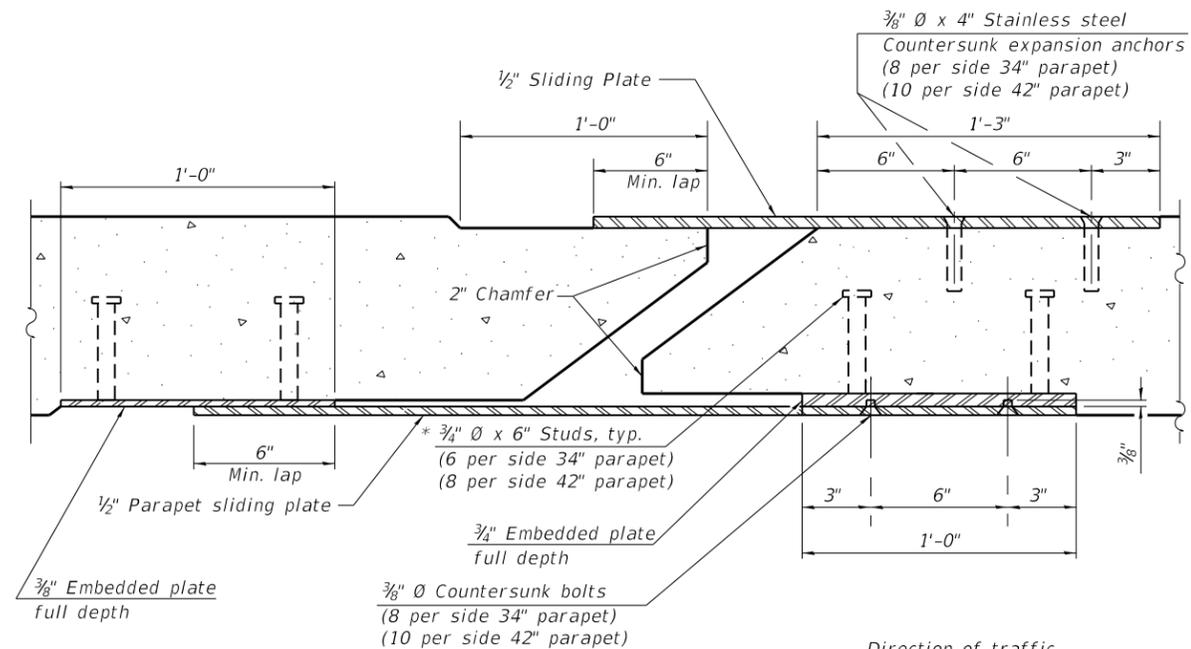
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	44
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



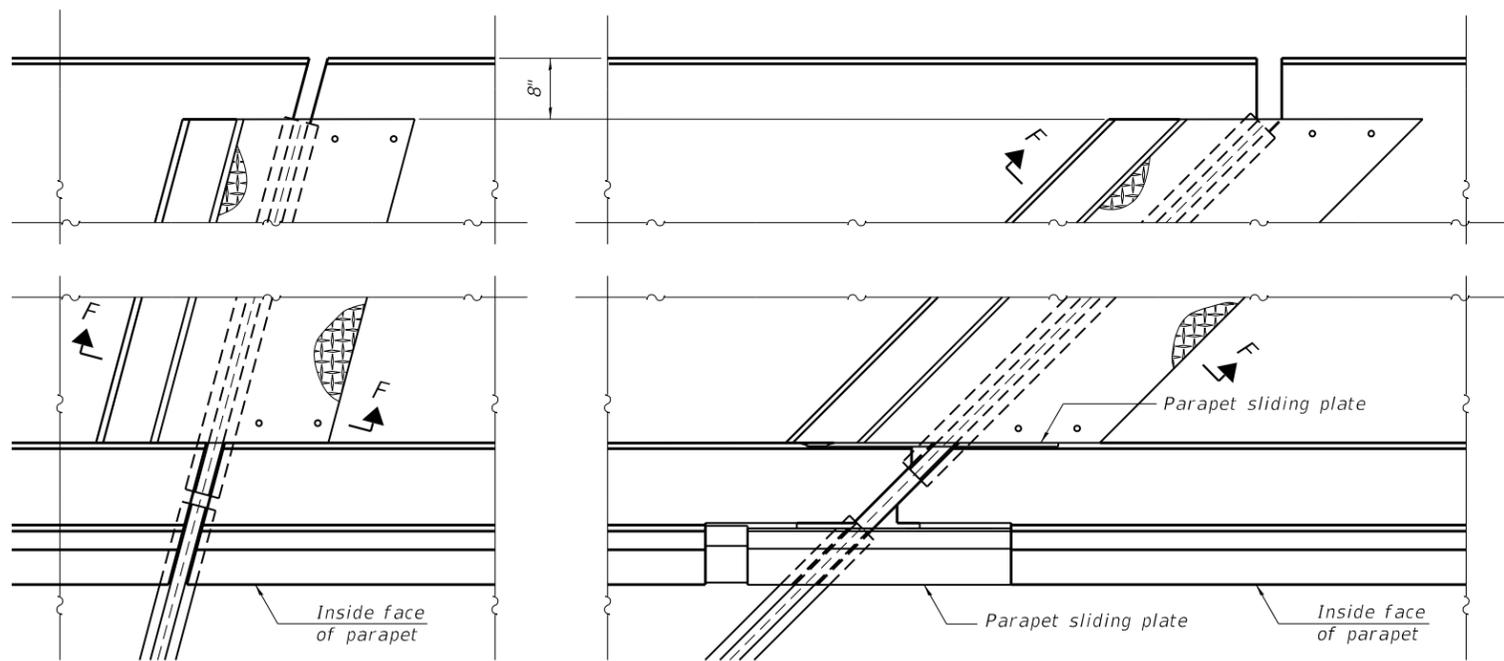
ELEVATION AT DECK LEVEL SIDEWALK
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL B



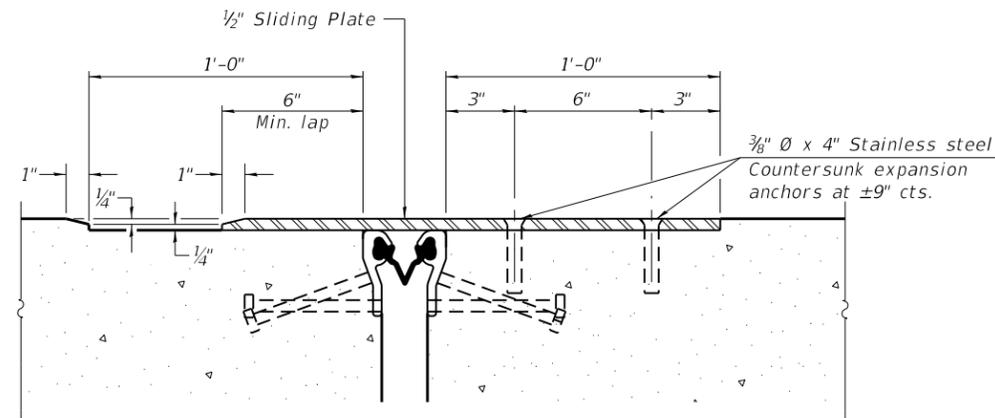
SECTION E-E



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

EJ-SS-S

8-11-17

(Sheet 3 of 3)



USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

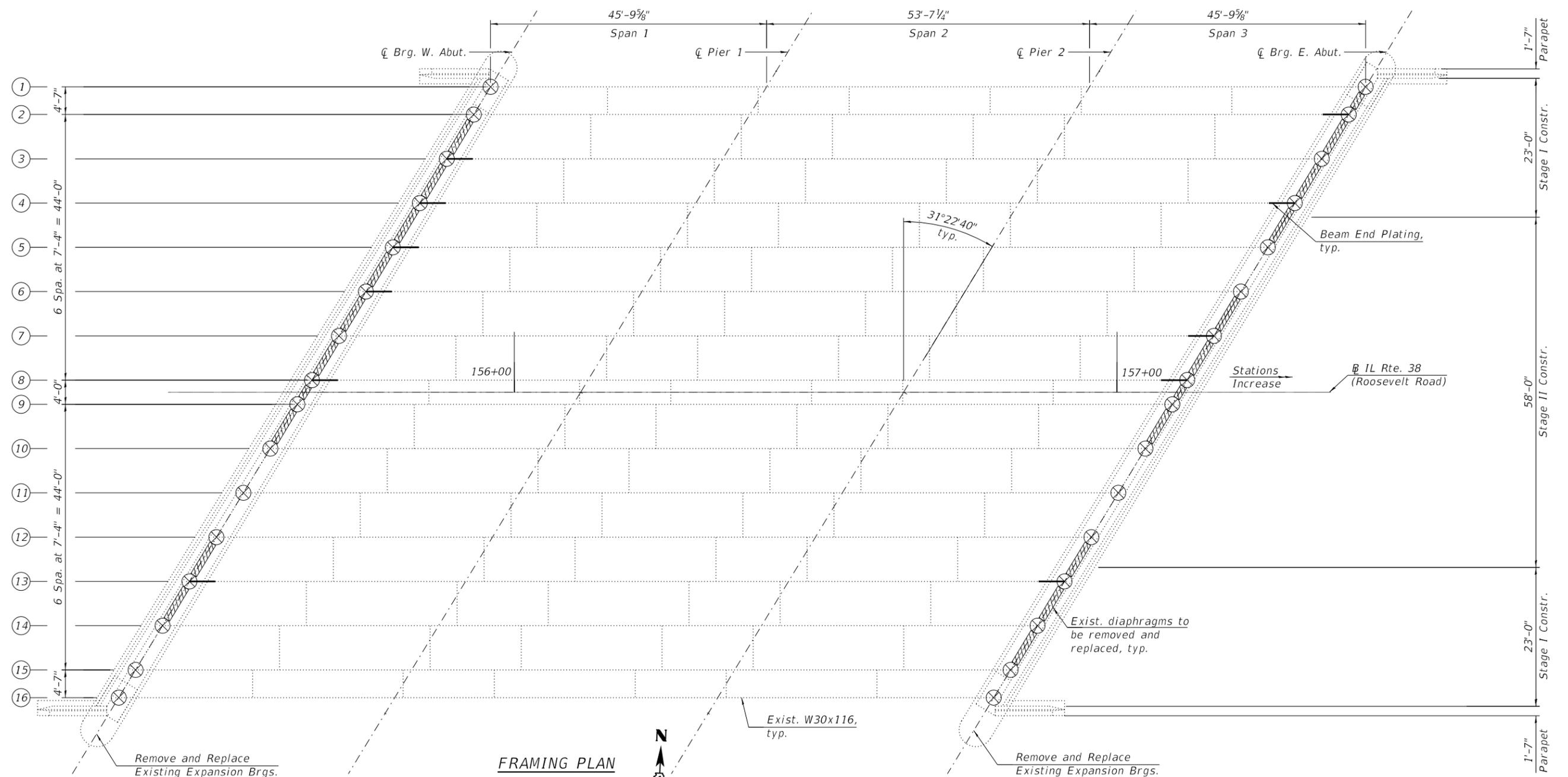
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 3 OF 3)
 STRUCTURE NO. 022-0026

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	45
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

SHEET S1-13 OF S1-20 SHEETS

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0026\0220026-62H04-013-PPF3.dgn
 12/10/2018 5:14:35 PM



- NOTES:**
- All work is to be performed utilizing staged construction. See Sheets S1-03 and S1-04 for details.
 - For Beam End Repairs and Diaphragm Removal and Replacement Details, see Sheet S1-15.
 - For Existing Expansion Bearings Removal and Replacement, see Sheet S1-16.
 - Jacking and Removing Existing Bearings shall be performed after scarification is completed and before the new deck overlay is poured.
 - The new bearings shall be in place, and the jacks shall be lowered, before the new deck overlay is poured.
 - All new structural steel (including beam end repair plates/angles, shim plates, diaphragms, connection angles, bolts, nuts and washers) shall be galvanized in accordance with AASHTO M111.

INTERIOR GIRDER REACTION TABLE

	ABUTMENT	PIER
R _D (k)	17.5	54.9
R _E (k)	36.2	44.6
Imp (k)	10.6	12.8
R _{TOTAL} (k)	64.3	112.3

- LEGEND:**
- Perform Beam End Plating
 - Remove and Replace Existing Diaphragm
 - Jack and Remove Existing Bearings

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO_10 IL38@Salt_Creek\Sheets\0220026-62H04-015-FramingPlan.dgn
12/11/2018 11:11:04 AM



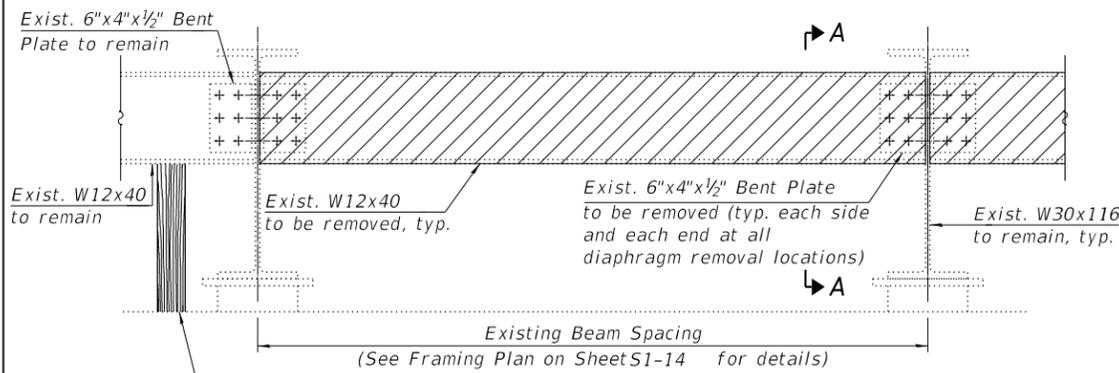
USER NAME =	DESIGNED - JJS	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

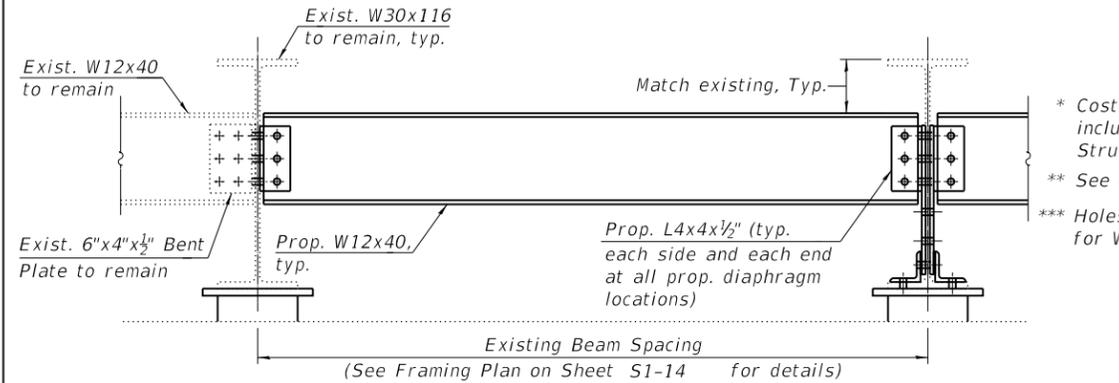
**FRAMING PLAN
STRUCTURE NO. 022-0026**

SHEET S1-14 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	46
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



EXISTING END DIAPHRAGM



PROPOSED END DIAPHRAGM

NOTES:

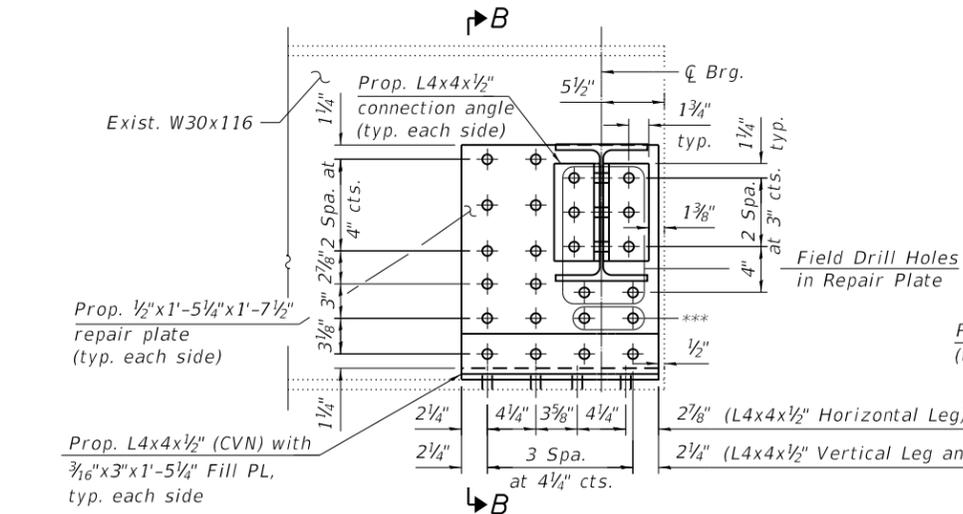
1. For locations of Diaphragm Removal/Replacement and Beam End Repairs, see Sheet S1-14.
2. All proposed beam end repair plates and bottom flange repair angles shall conform to the requirements of AASHTO M270 Grade 50. All proposed diaphragms and their connection angles shall conform to the requirements of AASHTO M270 Grade 36.
3. Diaphragm connection holes shall be 1 5/16" ø for 3/4" ø bolts. Two hardened washers shall be required at all diaphragm connections and all oversized holes.
4. For field-bolted connections to existing steel, see General Note 6 on Sheet S1-02.
5. Existing diaphragm and clip angle removal shall be paid for as Structural Steel Removal.
6. All proposed beam end repair plates, bottom flange repair angles, and associated bolts and fasteners shall be paid for as Structural Steel Repair. All proposed diaphragms, connection angles and associated bolts/fasteners shall be paid for as Furnishing and Erecting Structural Steel.
7. Load carrying components designated "CVN" shall conform to the Impact Testing Requirement, Zone 2.
8. For more information, see Sheet S1-02.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	6,810
Structural Steel Removal	Pound	6,660
Structural Steel Repair	Pound	1,800

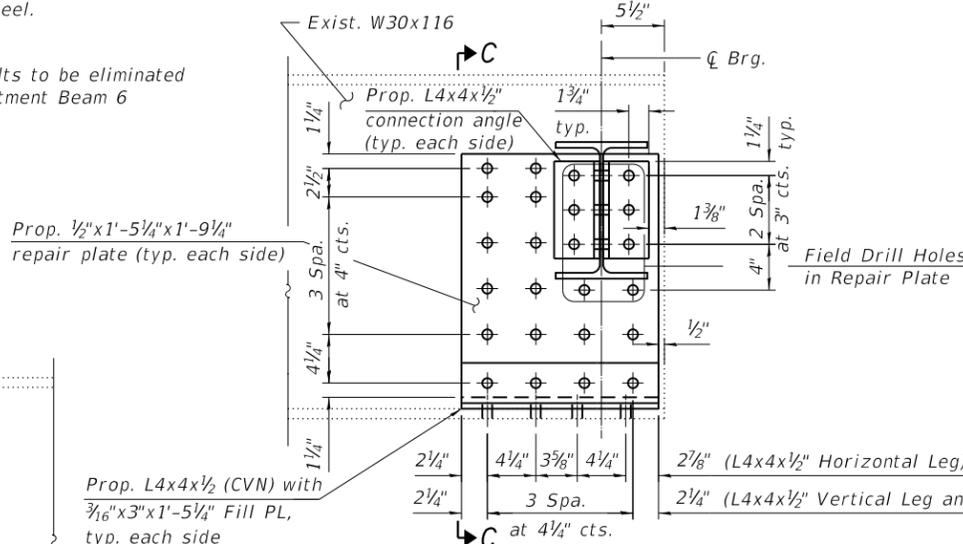
LEGEND

Structural Steel Removal



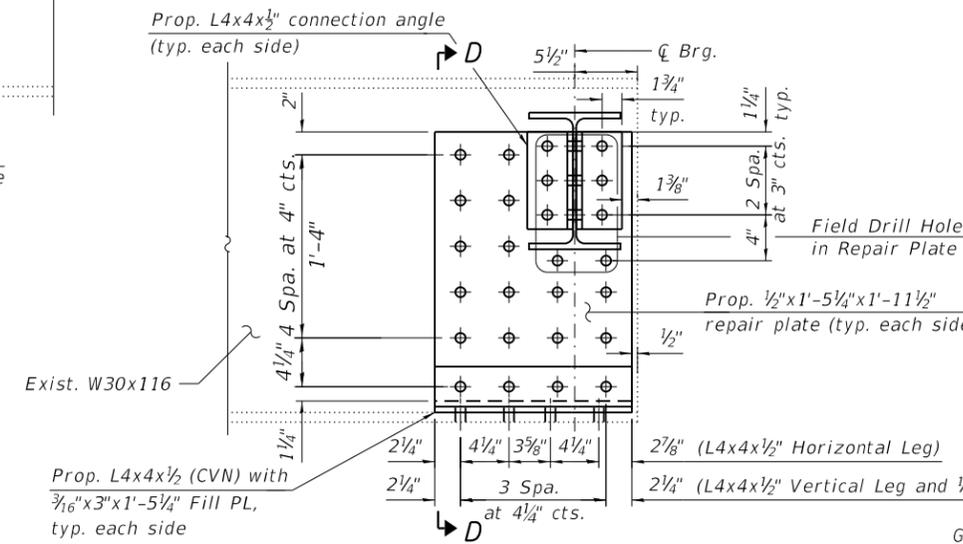
BEAM END REPAIR ELEVATION

(At West Abutment-Beams 4, 5 and 6)
(At East Abutment-Beams 4 and 7)



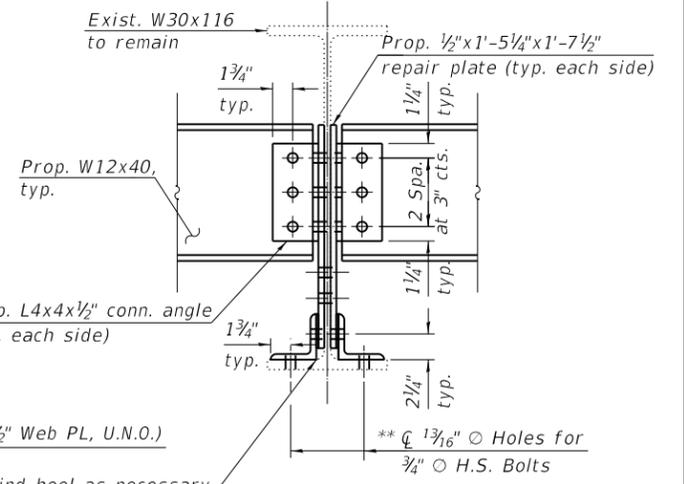
BEAM END REPAIR ELEVATION

(At West Abutment-Beams 3, 8 and 13)
(At East Abutment-Beams 8 and 13)

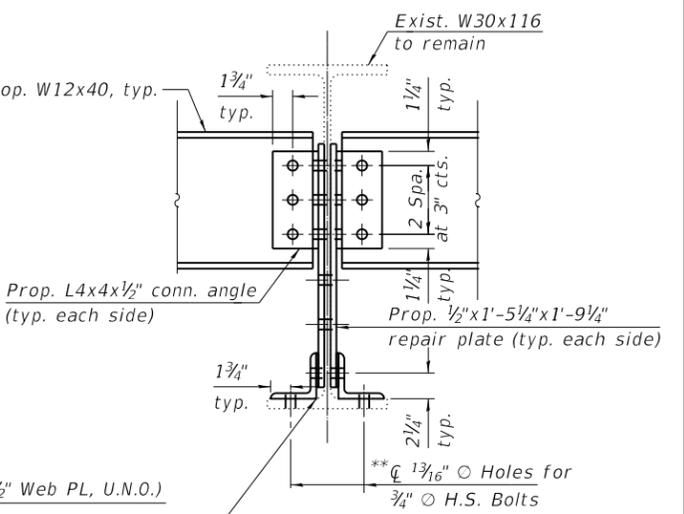


BEAM END REPAIR ELEVATION

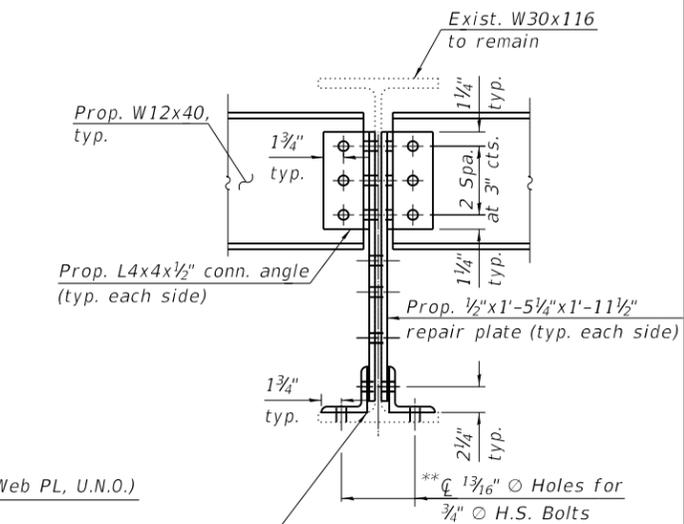
(At East Abutment-Beam 2)



SECTION B-B



SECTION C-C



SECTION D-D

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0220026-62\H04-016-StructSteelDetail.dgn
12/10/2018 5:14:39 PM



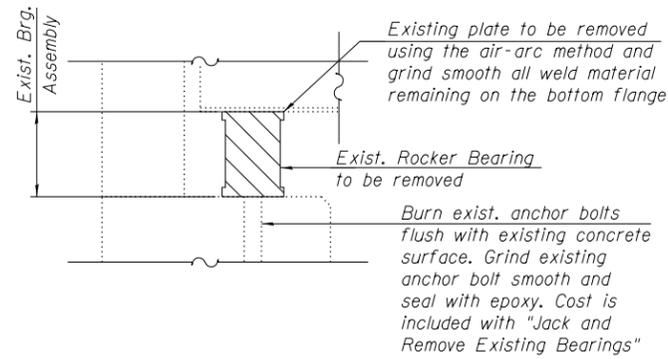
USER NAME =	DESIGNED - JJS	REVISED -
PLOT SCALE =	CHECKED - MI, MAI	REVISED -
PLOT DATE =	DRAWN - JJS	REVISED -
	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL REPAIR DETAILS
STRUCTURE NO. 022-0026**

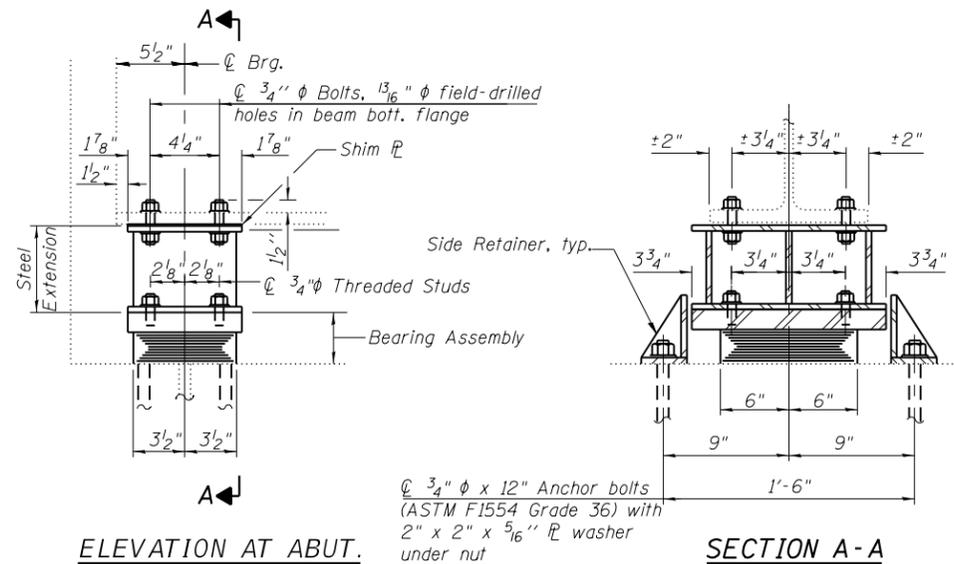
SHEET S1-15 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	47
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

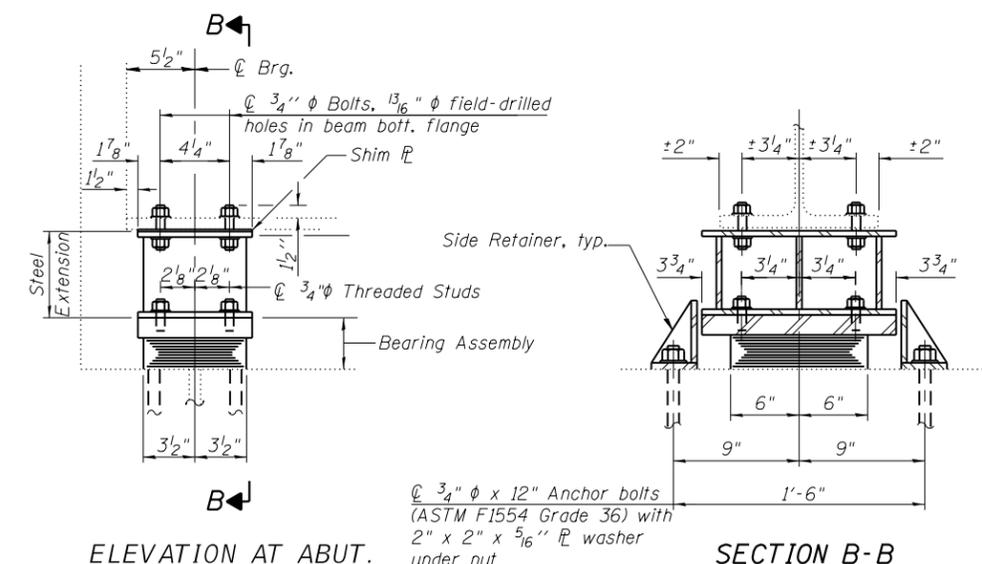


EXISTING BEARING

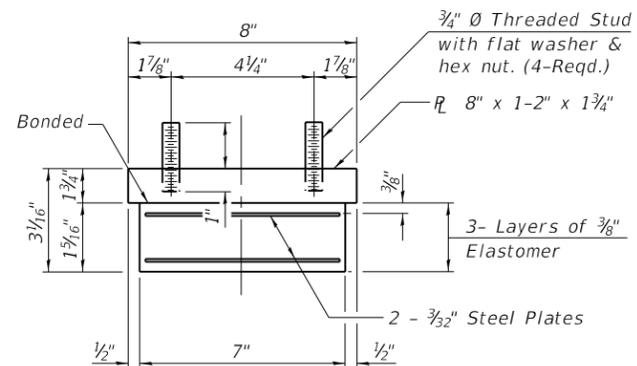
(Abutments' Bearings Replacement Detail)
(32 Locations)



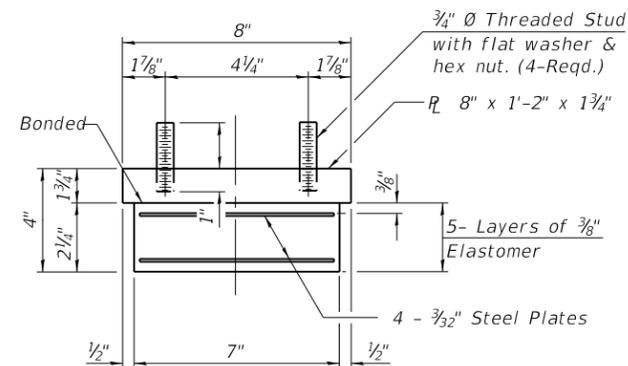
TYPE I ELASTOMERIC EXP. BRG.
(At West Abutment)



TYPE I ELASTOMERIC EXP. BRG.
(At East Abutment)

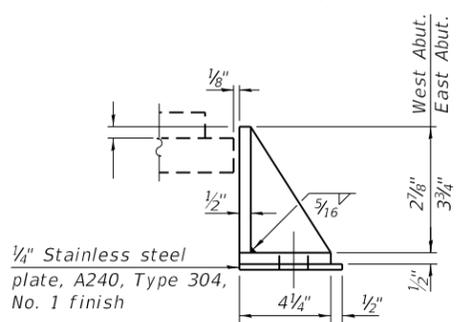


BEARING ASSEMBLY
(At West Abutment)



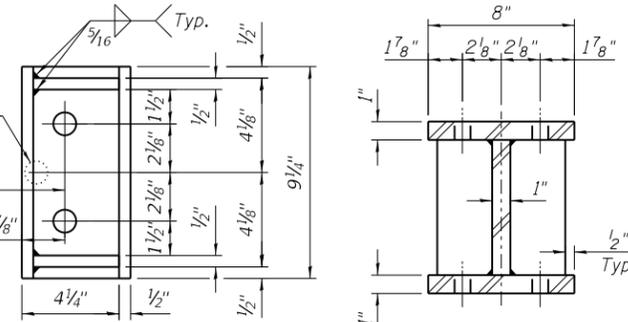
BEARING ASSEMBLY
(At East Abutment)

Note:
Shim plates shall not be placed under Bearing Assembly.

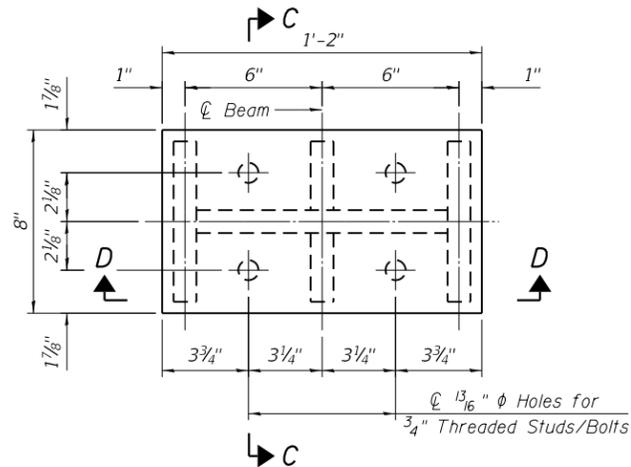


SIDE RETAINER

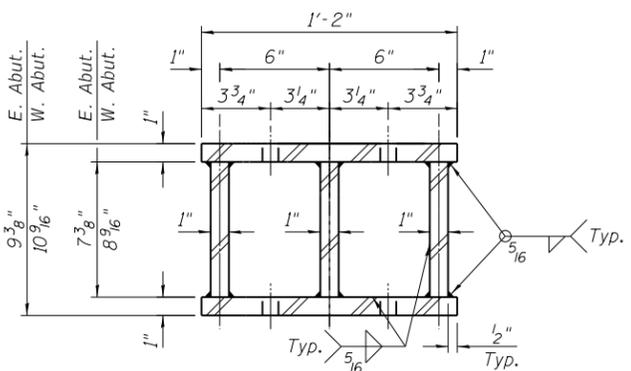
(At East and West Abutments)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SECTION C-C



PLAN-STEEL EXTENSION AT EXPANSION BEARINGS
(Showing Top & Bottom Steel Extension Plates)



SECTION D-D

NOTES

- Prior to ordering any material, the Contractor shall verify in the field all bearing heights and shim thickness dimensions.
- All Steel extension plates, shim plates and connection bolts shall be paid for as "Furnishing and Erecting Structural Steel".
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
- The structural steel plates of the Bearing Assembly and Steel Extension shall conform to the requirements of AASHTO M270 Grade 50.
- All bearing plates, side retainers, steel extension plates, shim plates, anchor bolts, nuts, washers and threaded studs shall be galvanized according to AASHTO M111 or M232 as applicable.
- Drilled and set anchor bolts shall be installed according to Article 521-06 of the IDOT standard specifications for Road and Bridge Construction.
- Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

SHIM PLATE TABLE

Girder	W. Abut.	E. Abut.
1	3/8"	1/8"
2	1/2"	7/8"
3	-	1/4"
4	1/8"	-
5	1/8"	3/8"
6	1/8"	7/8"
7	1/4"	-
8	1/4"	1/2"
9	1/8"	5/8"
10	3/8"	3/8"
11	1/8"	1/2"
12	3/8"	1"
13	1/8"	3/8"
14	1/8"	5/8"
15	3/8"	3/4"
16	5/8"	1 1/8"

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	5,590
Elastomeric Bearing Assembly Type I	Each	32
Anchor Bolts, 1"	Each	64
Jack and Remove Existing Bearings	Each	32

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\00260220026-62H04-017-ElastBrngs.dgn



USER NAME =	DESIGNED - JJS, MAA	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARINGS DETAILS
STRUCTURE NO. 022-0026

SHEET S1-16 OF S1-20 SHEETS

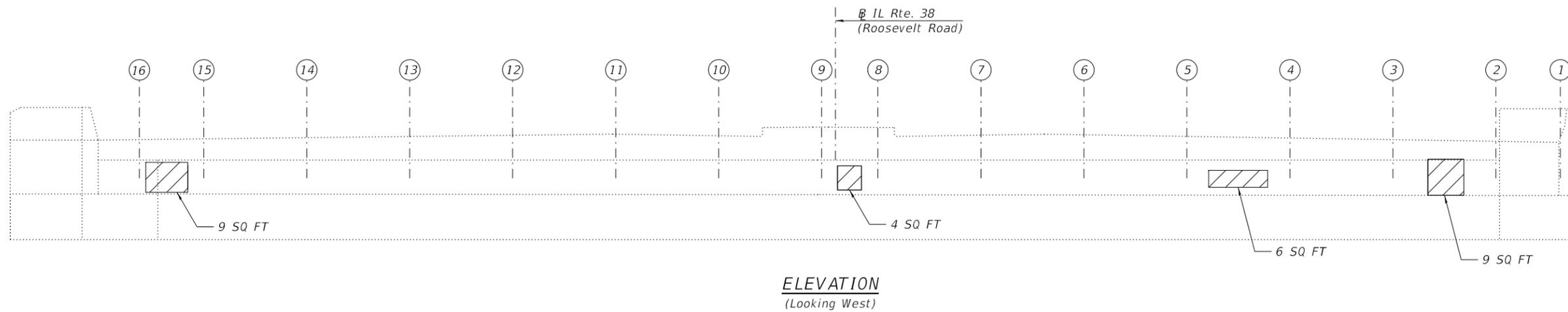
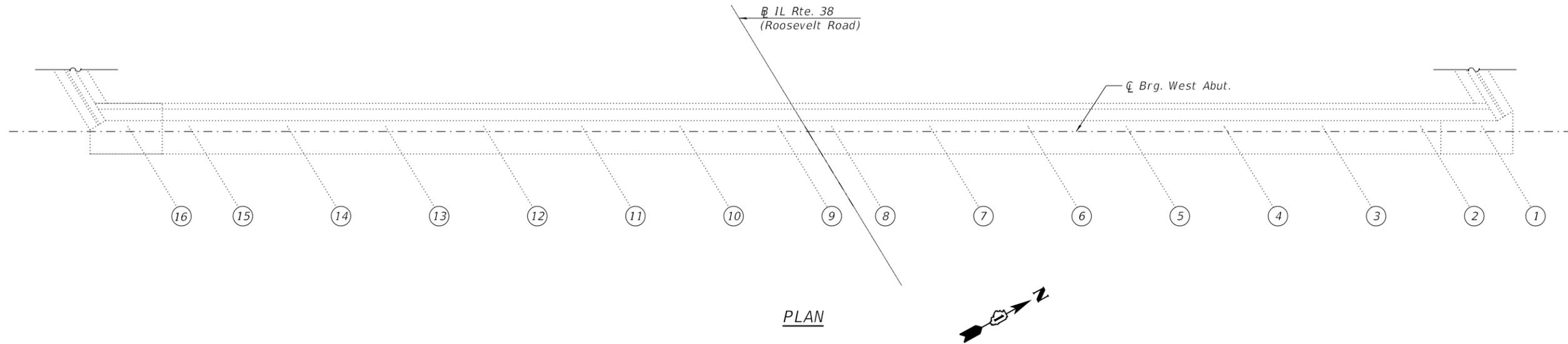
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	48
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5 inches).

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	28



LEGEND:

 Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt_Creek\Sheets\0220026-62H04-018-WestAbutRepairs.dgn
12/10/2018 5:14:43 PM



USER NAME =	DESIGNED - SK	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MS	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT REPAIRS
STRUCTURE NO. 022-0026**

SHEET S1-17 OF S1-20 SHEETS

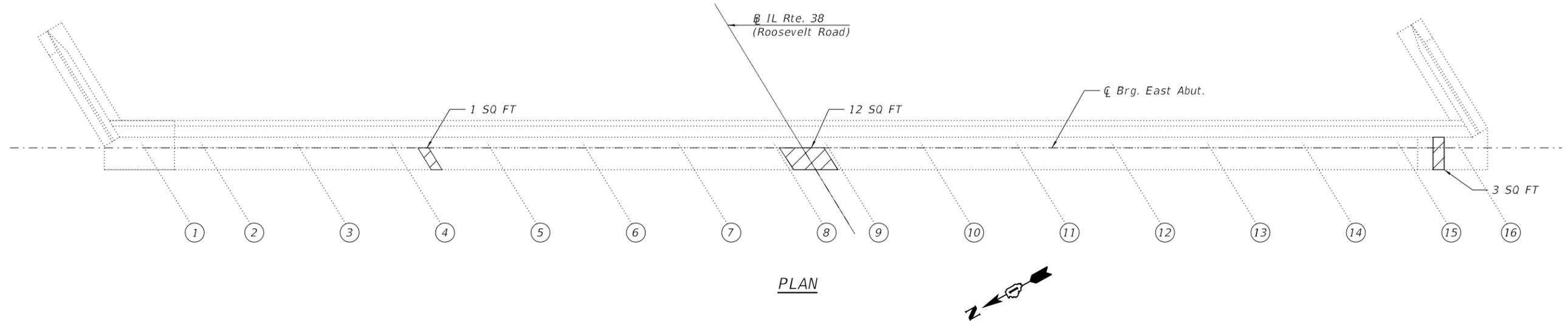
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	49
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

NOTES:

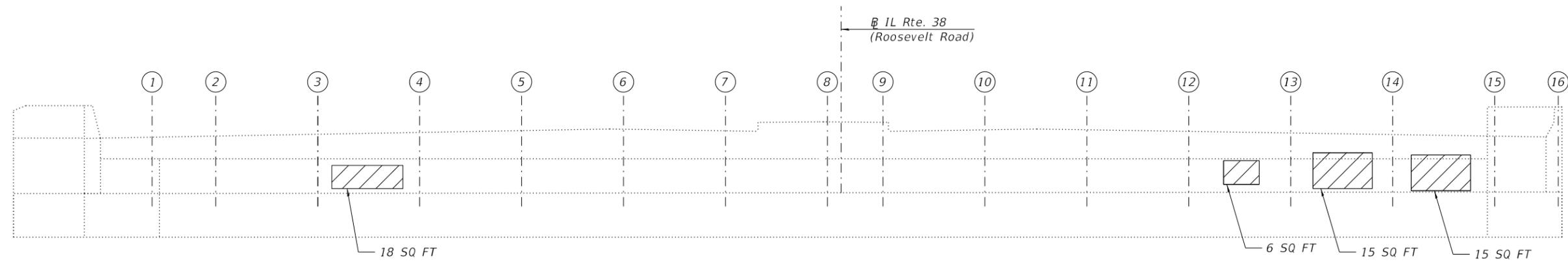
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5 inches).

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	70



PLAN



ELEVATION
(Looking East)

LEGEND:

 Structural Repair of Concrete
(Depth Equal to or Less than 5 inches)

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\026\0220026-62H04-019-EastAbutRepairs.dgn



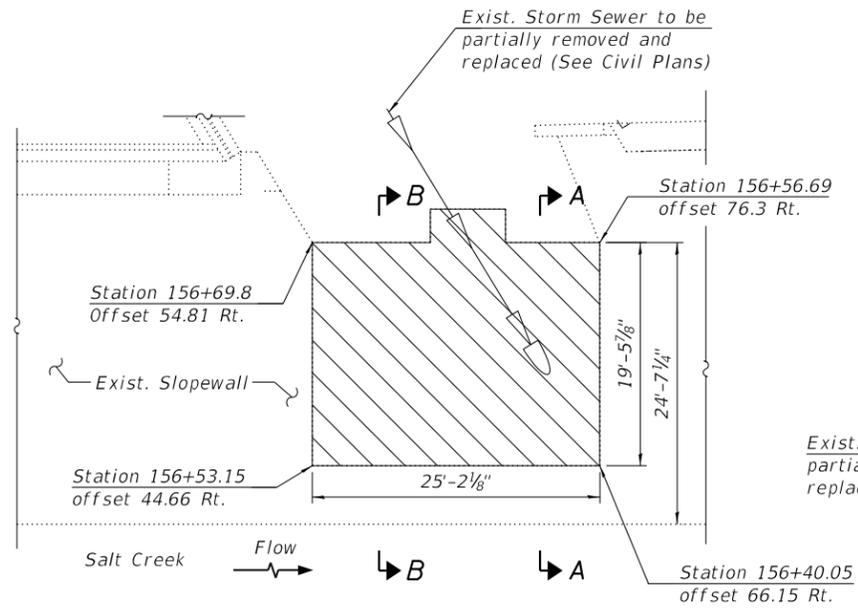
USER NAME =	DESIGNED - SK	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MS	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

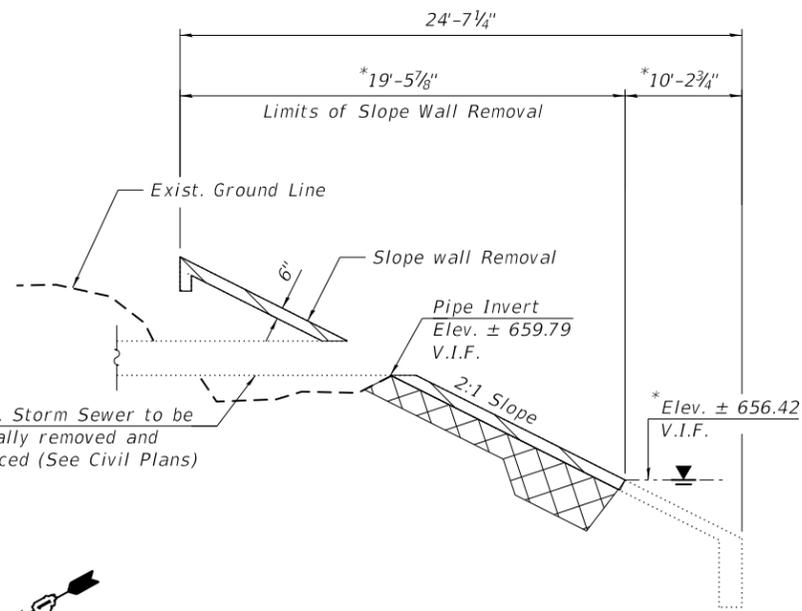
**EAST ABUTMENT REPAIRS
STRUCTURE NO. 022-0026**

SHEET S1-18 OF S1-20 SHEETS

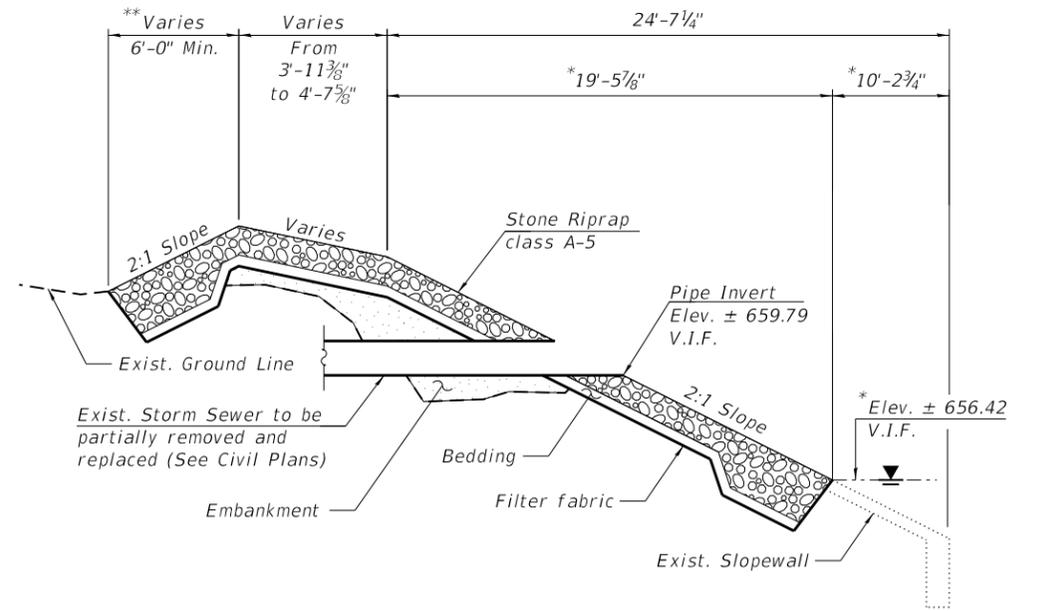
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	50
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



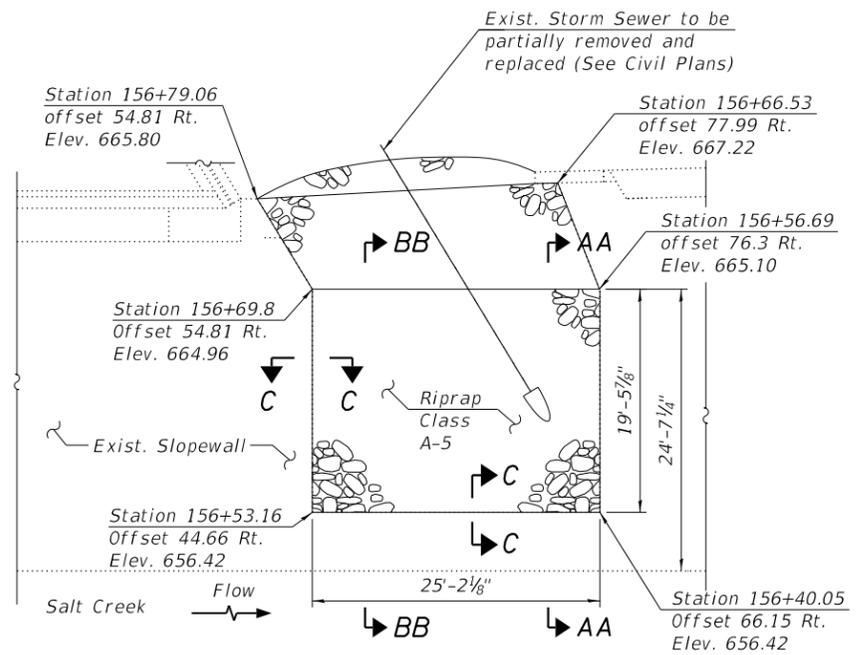
PARTIAL PLAN EAST ABUTMENT SLOPE WALL REMOVAL



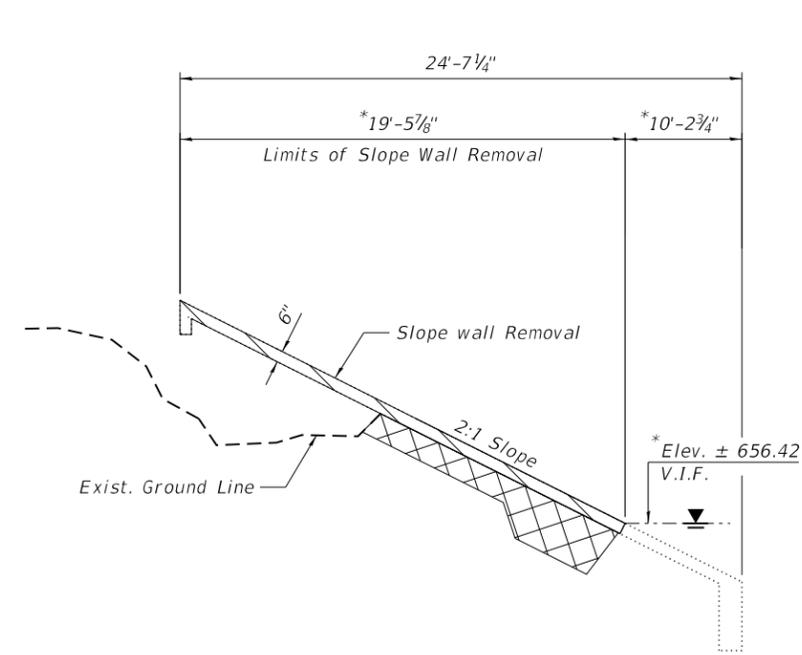
SECTION A-A



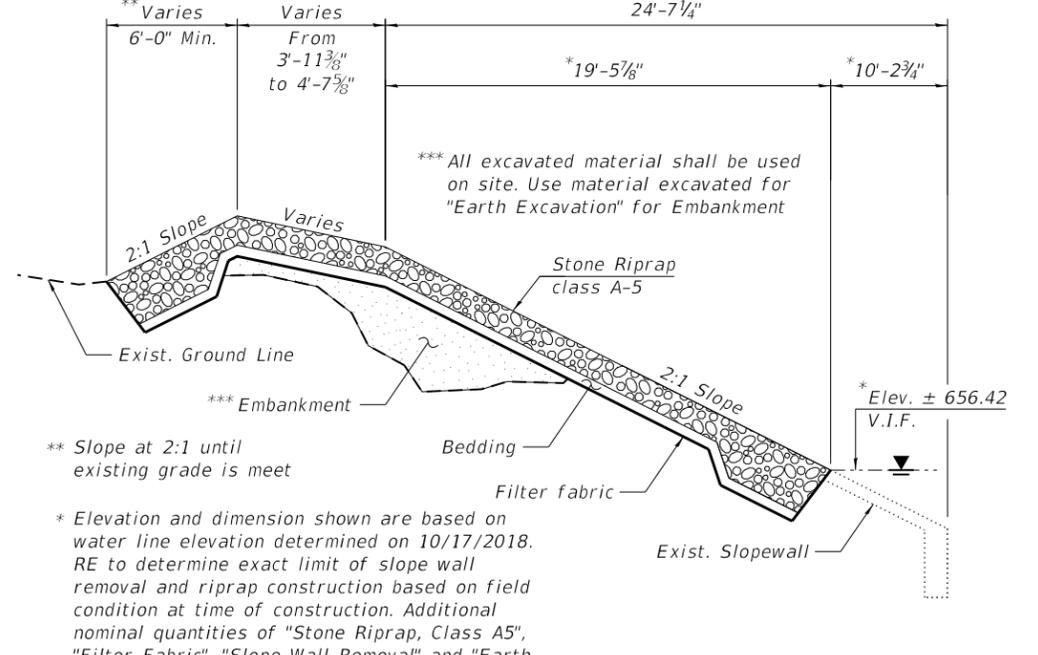
SECTION AA-AA



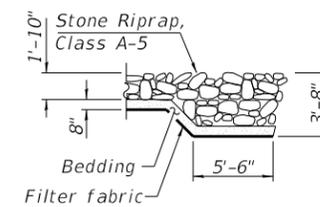
PARTIAL PLAN EAST ABUTMENT SLOPE WALL RECONSTRUCTION



SECTION B-B



SECTION BB-BB



SECTION D-D

LEGEND

	Slope Wall Removal
	Earth Excavation***

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A5	Sq. Yd.	110
Filter Fabric	Sq. Yd.	110
Slope Wall Removal	Sq. Yd.	75

NOTES:

1. Heavy machinery equipment such as backhoe or bulldozer will not be permitted in the body of the creek.
2. Permanent/temporary work platforms are not allowed in the body of the creek.
3. The Contractor shall limit the disturbance of the existing soil embankment below the removed slope wall to a minimum during slope wall removal.
4. The Contractor shall exercise extreme caution during construction to make certain that construction activities, structure excavation, and other loads applied will not have detrimental effects on the existing abutments. Any damage to the existing abutments during construction shall be repaired by the contractor at his expense at no charge to IDOT.
5. Elevations are based on Survey and need to be field verified.
6. Layout of riprap may be varied to suit the ground in the field as directed by the Engineer.



USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

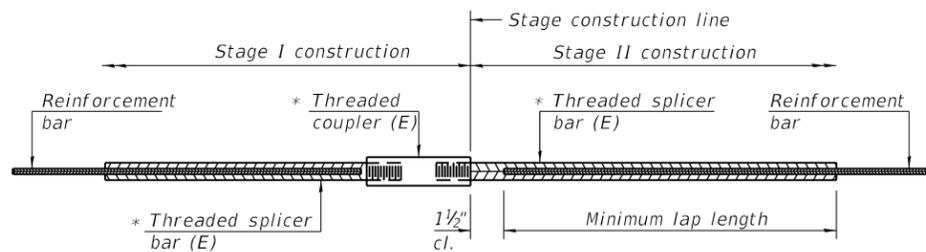
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPEWALL REMOVAL AND RECONSTRUCTION
STRUCTURE NO. 022-0026

SHEET S1-19 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	51
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL388@Salt Creek\Sheets\0220220026-62H04-020-SlopedWallRemoval.dgn
12/10/2018 5:14:47 PM

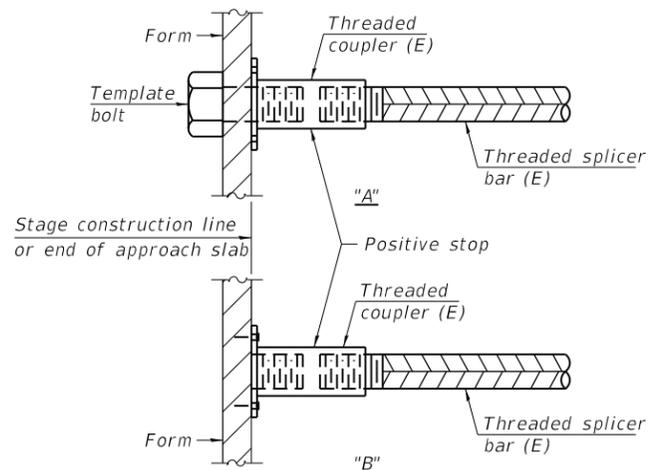


STANDARD BAR SPLICER ASSEMBLY

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

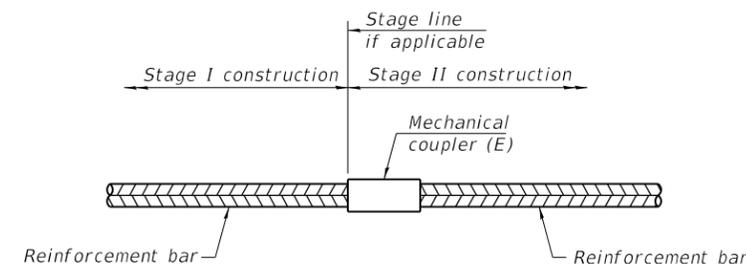
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	28	3'-6"
W. Abut.	#6	12	3'-7"
E. Abut.	#6	12	3'-7"



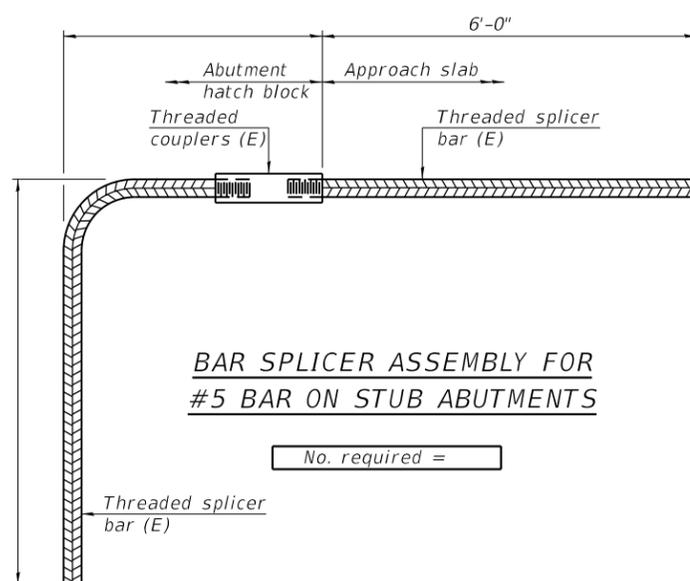
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0226\0226-62H04-022-BarSplicer.dgn

BSD-1

2-17-2017



USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MI, MAI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 022-0026

SHEET S1-20 OF S1-20 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	52
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

Existing Structure: Structure No. 022-0028 was constructed in 1930 and rehabilitated in 1986 and 2012. The structure has a length of 159'-0" back to back of abutments and an out to out deck width of 39'-7". The structure consists of 3 simple spans of PPC I-beams supported on reinforced concrete piers, abutments and wingwalls. The west abutment is supported on steel h-pile and reinforced concrete piles. The piers are supported on timber piles, and the east abutment is supported on timber and reinforced concrete piles.

Traffic to be maintained utilizing stage construction.
No Salvage.

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

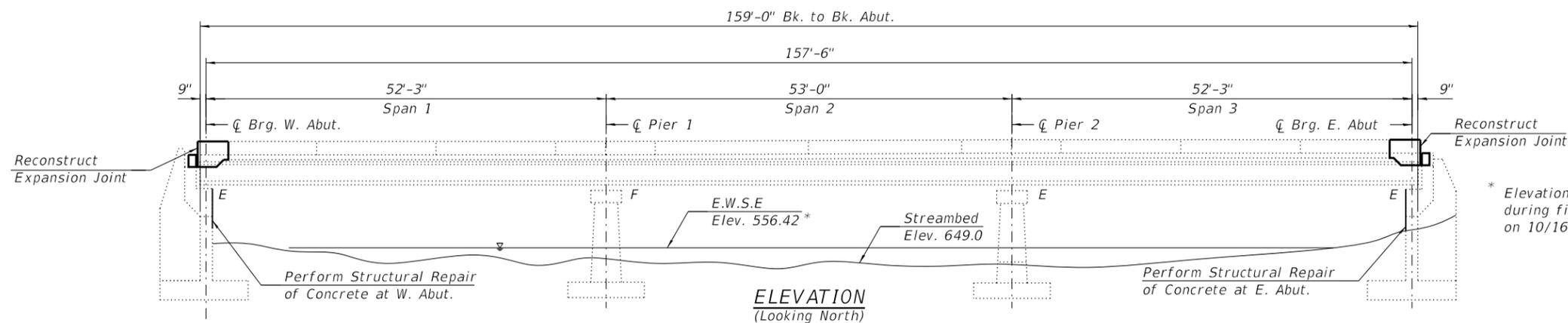
DESIGN STRESSES
FIELD UNITS

$f_y = 60,000$ psi (Reinforcement)

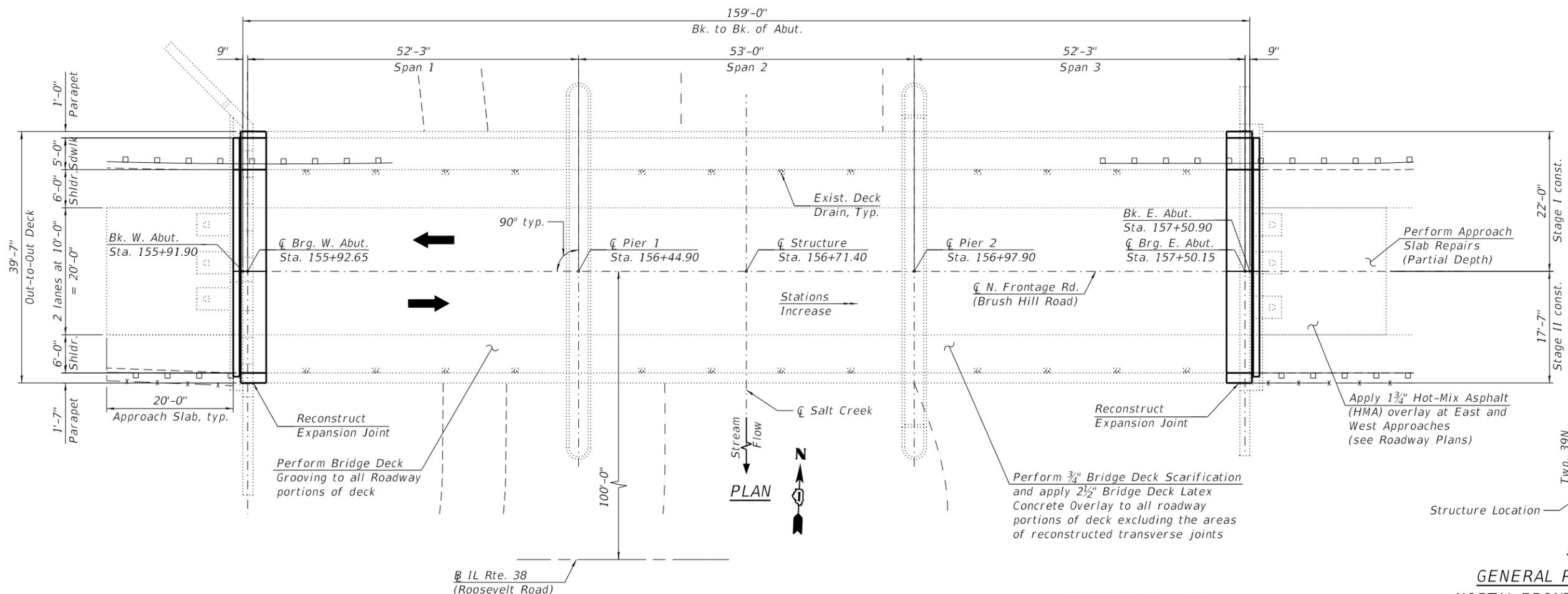
RECONSTRUCTION (1985)

Superstructure
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi
Substructure
 $f_c = 1,400$ psi
 $f_s = 24,000$ psi
Precast Prestressed Units
 $f'_s = 270,000$ psi (prestressing steel)
 $f'_s = 189,000$ psi
 $f'_c = 6,000$ psi
 $f'_{ci} = 4,550$ psi
 $f_i = 28,900$ lbs. per strand

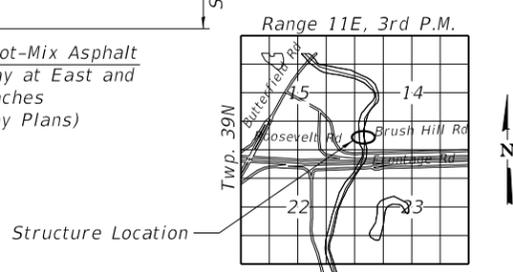
* Elevation measured during field inspection on 10/16/2018.



ELEVATION
(Looking North)



PLAN



LOCATION SKETCH

NOTE:

- All stations are to the IL Rte. 38 (Roosevelt Road)



SIGNED *Moussa A. Issa*
DR. MOUSSA A. ISSA, S.E. IL. LIC. NO. 081-005738
EXPIRES 11-30-2020

DATE 12/08/2018 FOR SHEETS S2-01 THRU S2-14 (TOTAL OF 14 SHEETS)

GENERAL PLAN AND ELEVATION
NORTH FRONTAGE ROAD (IL RTE. 38)
(BRUSH HILL ROAD)
OVER SALT CREEK
DU PAGE COUNTY
STATION 156+71.40
S.N. 022-0028

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0228\0220028-62H04-001-GPE.dgn
12/10/2018 5:14:51 PM



USER NAME =	DESIGNED - MAA, LAB	REVISED -
PLOT SCALE =	CHECKED - MAI, MI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 022-0028

SHEET S2-01 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	53
CONTRACT NO. 62H04					

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
4. Protective Coat Shall be applied to the top and inside faces of reconstructed parapets, Sidewalk and transverse joints.
5. Bars noted thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bars per line.
6. All exposed concrete edges shall have a 3/4"x45° chamfer, except where shown otherwise.
7. Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay. See Special Provisions.
8. During repair operations, the Contractor shall locate and protect all utilities or facilities in the vicinity of the work including, but not limited to, fiber optic and/or electrical conduits attached to the structure. This work shall be performed to the satisfaction of the Engineer and will not be paid for separately, but shall be included with the contract. It shall be the Contractor's responsibility to restore and replace any damaged utilities or facilities to the satisfaction of the Engineer at no cost to the Department.
9. Debris shall be removed from the tops of pier caps, abutment caps and slopewalls. Quantities are estimated and actual locations will be determined in the field, at the time of construction, by the Engineer.

INDEX OF SHEETS

- S2-01 General Plan and Elevation
- S2-02 General Notes, Index of Sheets and Total Bill of Material
- S2-03 Stage Construction
- S2-04 Temporary concrete barrier for stage construction
- S2-05 Bridge Deck Repair Plan
- S2-06 W. Abutment Joint Removal and Reconstruction (Sheet 1 of 2)
- S2-07 W. Abutment Joint Removal and Reconstruction (Sheet 2 of 2)
- S2-08 E. Abutment Joint Removal and Reconstruction (Sheet 1 of 2)
- S2-09 E. Abutment Joint Removal and Reconstruction (Sheet 2 of 2)
- S2-10 Prefomed Joint Strip Seal-Sidewalk (Sheet 1 of 3)
- S2-11 Prefomed Joint Strip Seal-Sidewalk (Sheet 2 of 3)
- S2-12 Prefomed Joint Strip Seal-Sidewalk (Sheet 3 of 3)
- S2-13 Abutments Repairs
- S2-14 Bar Splicer Assembly and Mechanical Splicer Details

SCOPE OF WORK

1. Scarify 3/4" from the bridge deck slab.
2. Perform partial depth repairs to approach pavement and Bridge Deck.
3. Reconstruct bridge deck expansion joints at the East and West Abutments and install new prefomed joint strip seals.
4. Apply a 2 1/2" bridge deck latex concrete overlay on the bridge deck and 1 3/4" Hot-Mix Asphalt (HMA) overlay on approach slabs.
5. Perform bridge deck grooving for the bridge deck.
6. Apply protective coat on the reconstructed transverse expansion joint areas and reconstructed top and inside face of parapets and sidewalk.
7. Clean all deck drains.
8. Perform structural concrete repairs for the Abutments as noted on the plans.
9. Remove debris from top of pier caps and abutment caps.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
CONCRETE REMOVAL	CU YD	27.5	-	27.5
CONCRETE SUPERSTRUCTURE	CU YD	29.6	-	29.6
BRIDGE DECK GROOVING	SQ YD	539	-	539
PROTECTIVE COAT	SQ YD	44	-	44
REINFORCEMENT BARS, EPOXY COATED	POUND	3000	-	3000
BAR SPLICERS	EACH	42	-	42
PREFORMED JOINT STRIP SEAL	FOOT	80	-	80
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	4	-	4
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	540	-	540
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	540	-	540
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	-	28	28
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	-	2	2
DEBRIS REMOVAL	CU YD	3	-	3

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt_Creek\Sheets\0228\0220028-62H04-002-GenNotes.dgn



USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MAI, MI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 01/09/2019	REVISED -

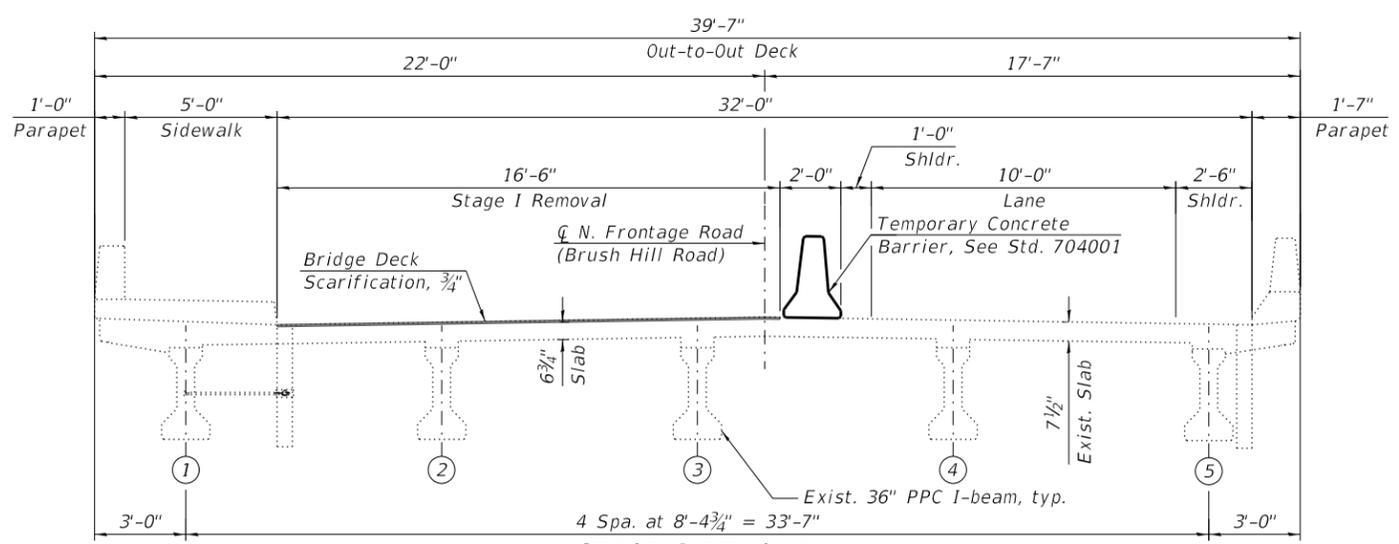
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
STRUCTURE NO. 022-0028**

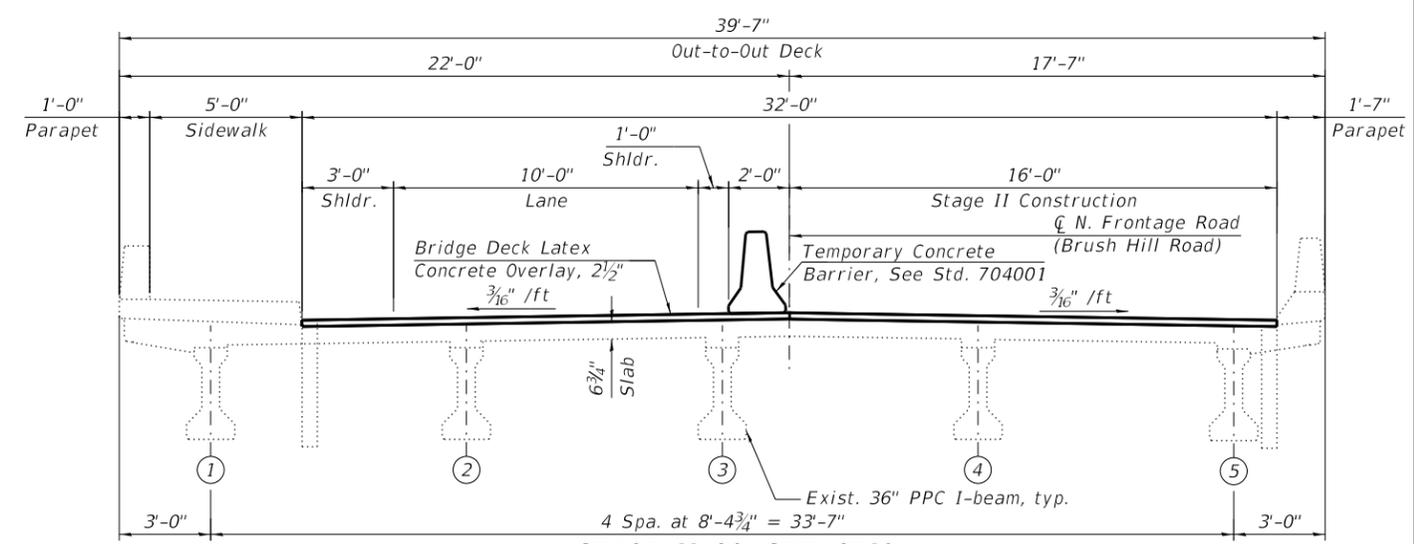
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	54
CONTRACT NO. 62H04					
			ILLINOIS	FED. AID PROJECT	

SHEET S2-02 OF S2-14 SHEETS

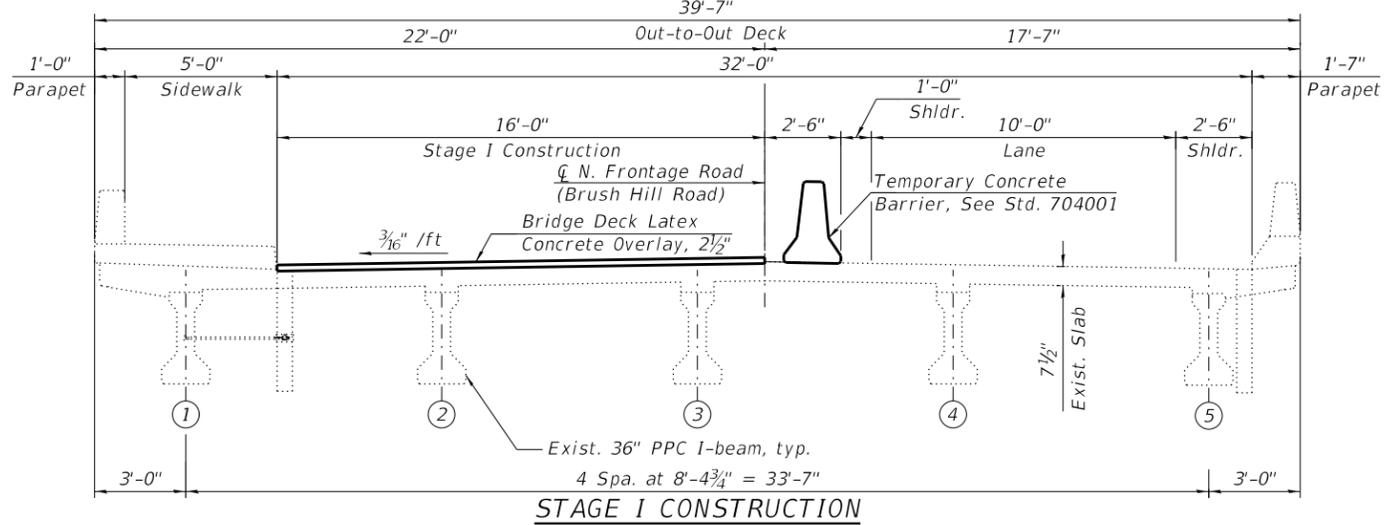
MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\02280220028-62-H04-003-Staging1.dgn



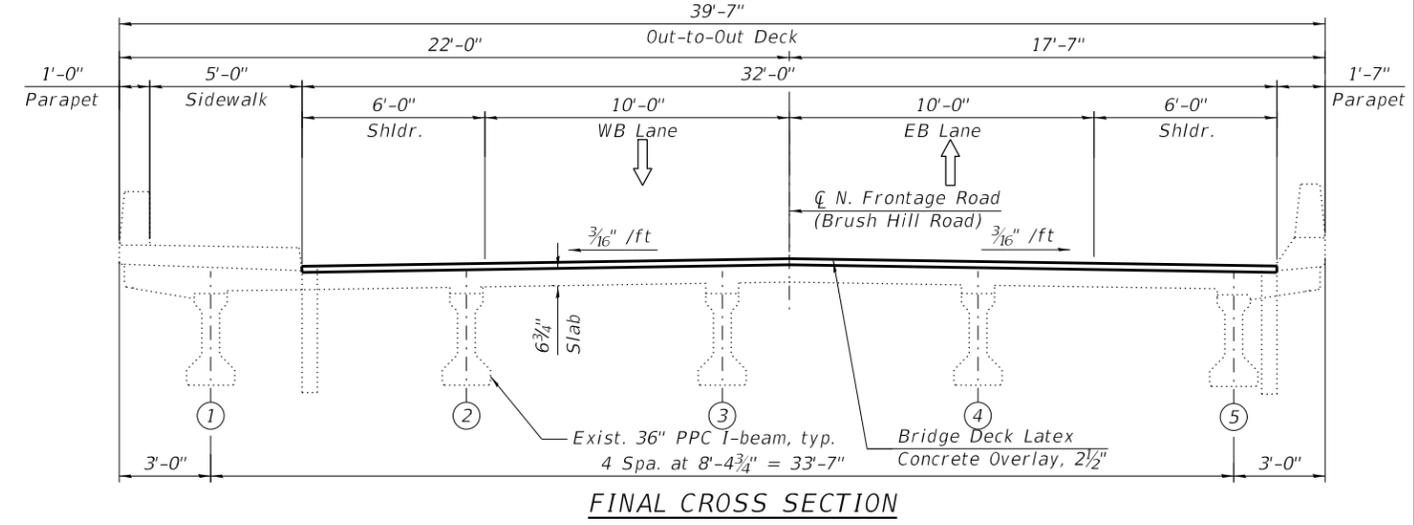
STAGE I REMOVAL
 (Looking East)



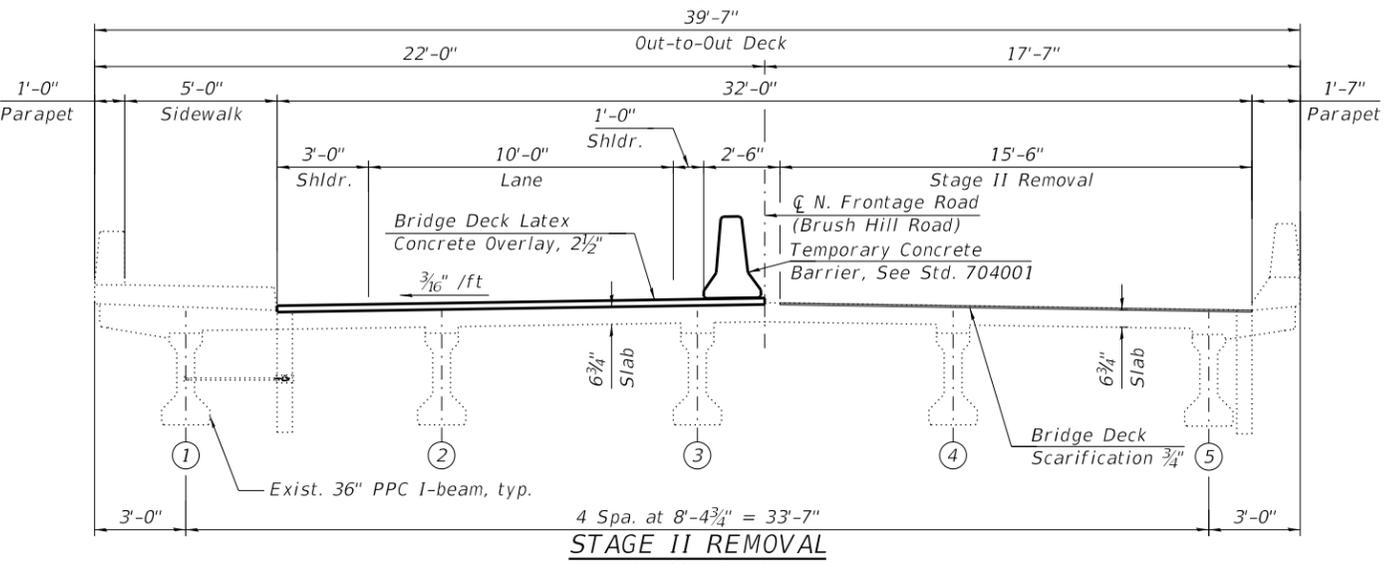
STAGE II CONSTRUCTION
 (Looking East)



STAGE I CONSTRUCTION
 (Looking East)



FINAL CROSS SECTION
 (Looking East)



STAGE II REMOVAL
 (Looking East)



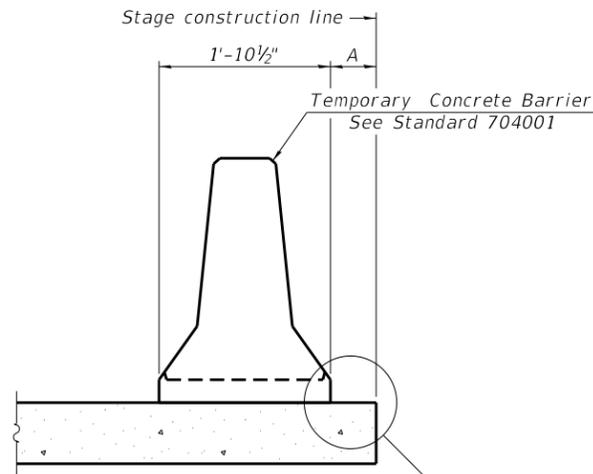
USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MAL, MI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION
 STRUCTURE NO. 022-0028**

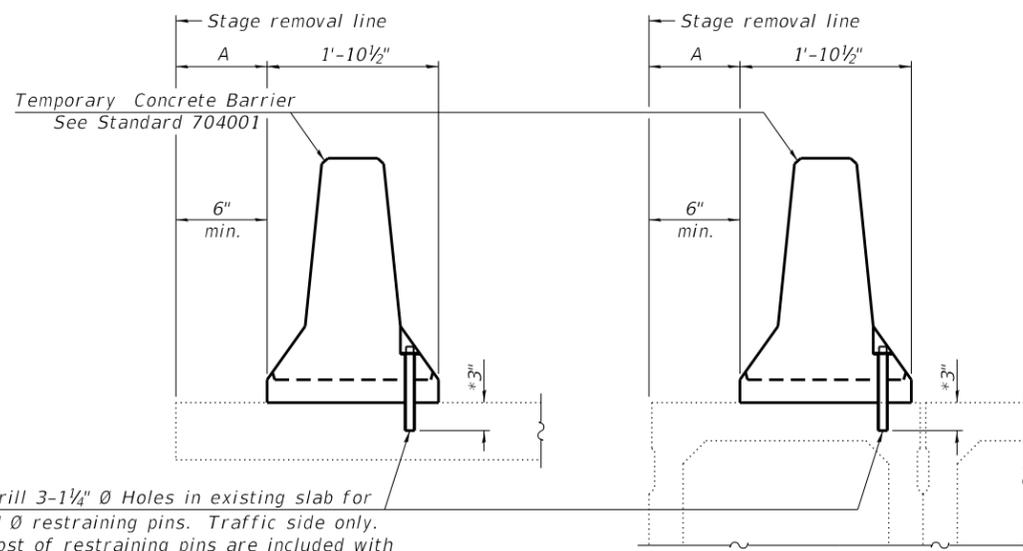
SHEET S2-03 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	55
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					



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

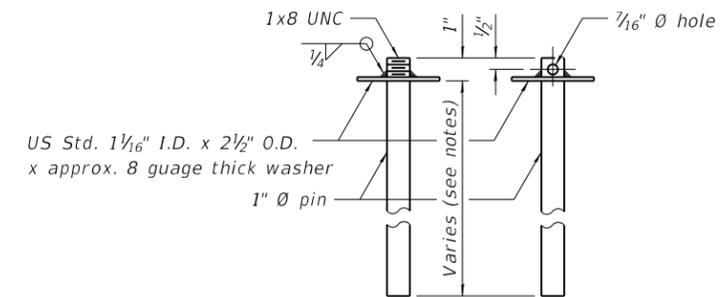


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

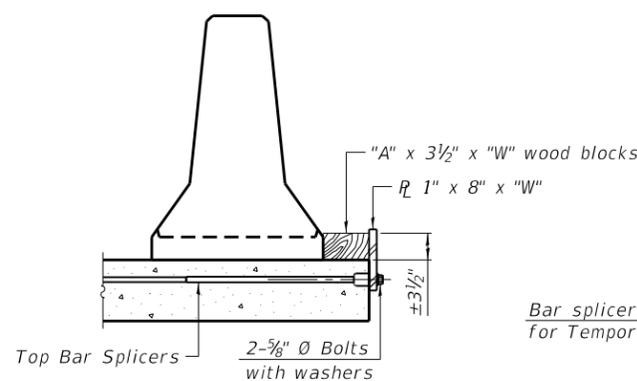
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM



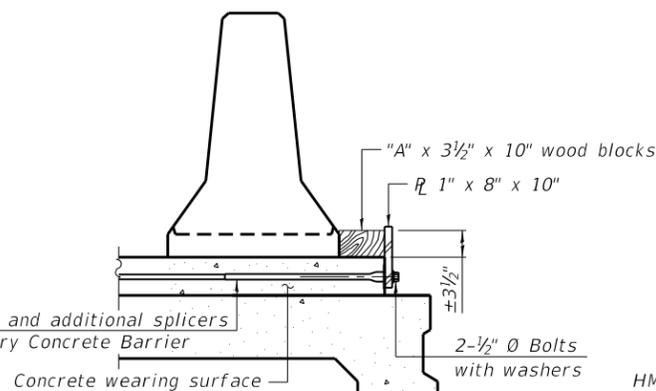
RESTRAINING PIN

SECTIONS THRU SLAB OR DECK BEAM

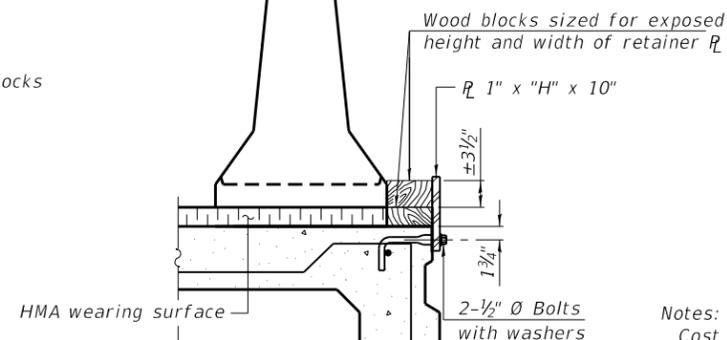


DETAIL I

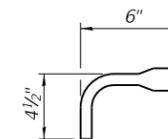
Bar splicers and additional splicers for Temporary Concrete Barrier



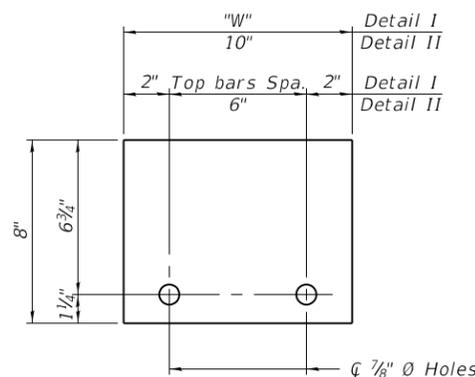
DETAIL II



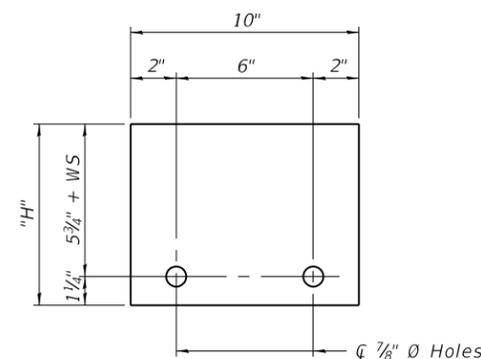
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate $\frac{1}{2}$ 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.

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\00280220028-62H04-004-TCB.dgn
 12/10/2018 5:14:56 PM

R-27 8-11-2017



USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MAL MI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

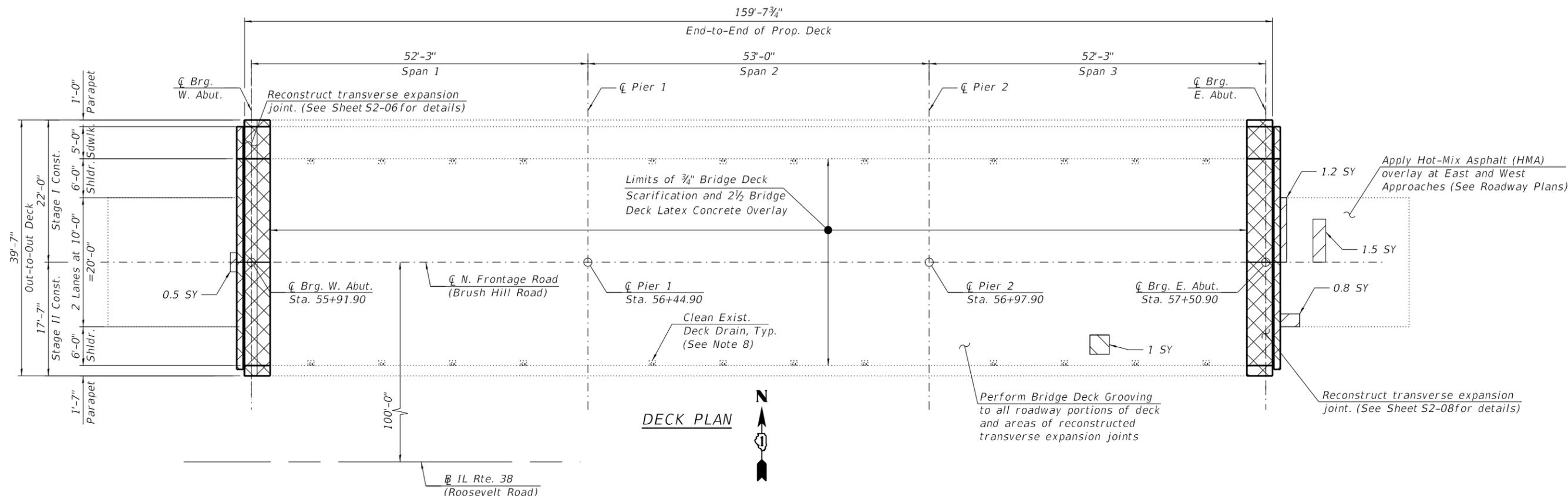
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 SHEET NO. 022-0028

SHEET S2-04 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	56
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Deck Grooving	SQ YD	539
Approach Slab Repair (Partial Depth)	SQ YD	4
Bridge Deck Latex Concrete Overlay, 2 1/2"	SQ YD	540
Bridge Deck Scarification 3/4"	SQ YD	540



DECK PLAN

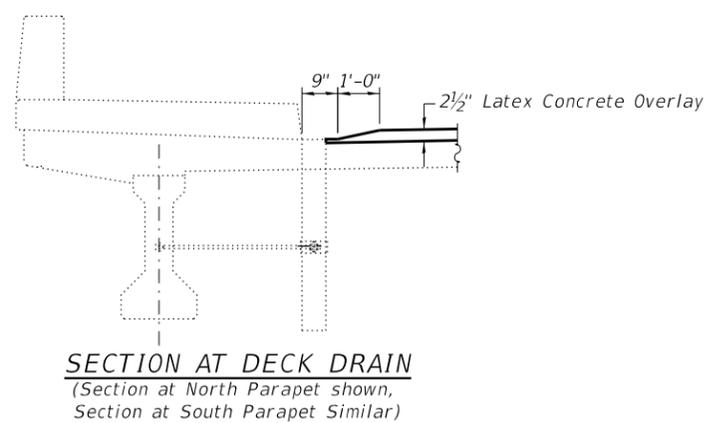
NOTES:

1. Areas of deck repair shown are estimated. The Engineer shall show actual locations of deck repairs at the time of construction.
2. For bridge deck final cross section, see Sheet S2-03.
3. For West and East Abutments transverse joint removal and reconstruction, see Sheets S2-06 thru S2-09.
4. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.
5. Perform bridge deck grooving for the bridge deck latex concrete overlay and the roadway portions of the reconstructed transverse joints.
6. Protective coat shall be applied to top and inside face of parapets, sidewalk and the reconstructed transverse expansion joint areas.
7. The Contractor shall exercise extreme caution during Concrete Removal to avoid damaging the PPC I-beams. Any damage to the existing PPC I-beams caused by the Contractor in the performance of his/her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
8. Cleaning existing deck drains is included in the cost of Bridge Deck Scarification 3/4".
9. All stations are to the IL Rte. 38 (Roosevelt Road)

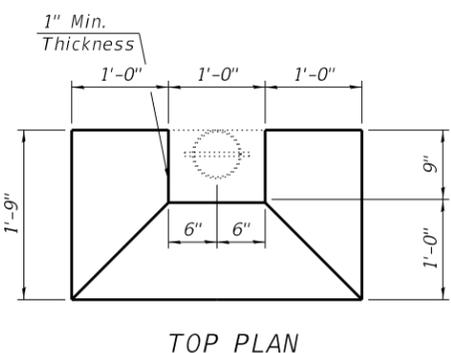
*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2 1/2".

LEGEND

- Approach Slab Repair (Partial Depth)
- *Deck Slab Repair (Partial) (Estimated quantity 1 SY)
- Concrete Removal
- SY Square Yard



SECTION AT DECK DRAIN
(Section at North Parapet shown, Section at South Parapet Similar)



TOP PLAN

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\W0 10 IL38@Salt Creek\Sheets\02280220028-62H04-005-DeckRepair.dgn
12/10/2018 5:14:58 PM



USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MAI, MI	REVISED -
PLOT SCALE =	DRAWN - MAA, MS	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIR PLAN
STRUCTURE NO. 022-0028**

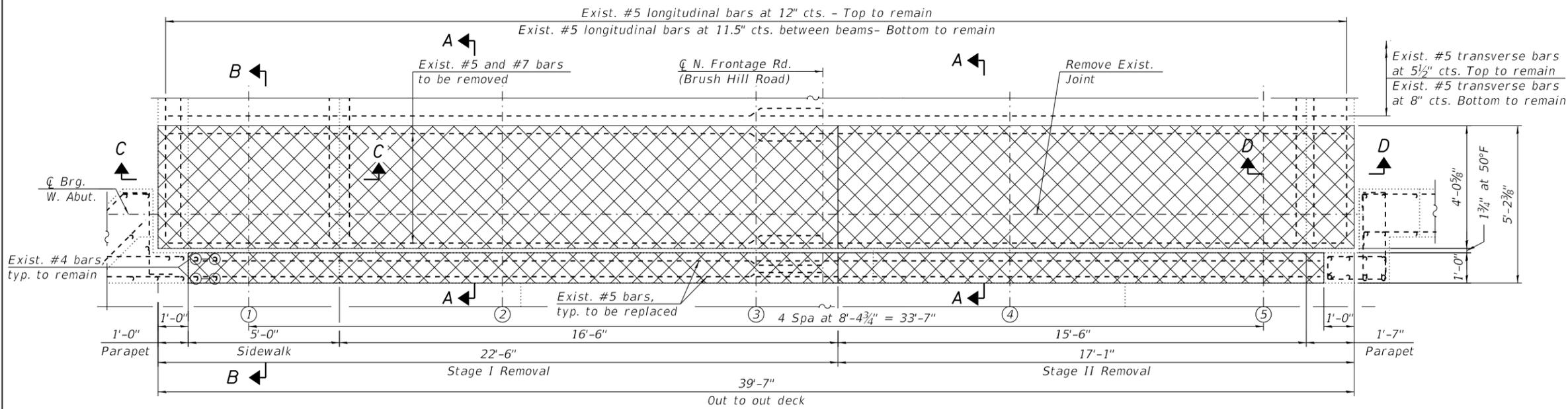
SHEET S2-05 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	57
CONTRACT NO. 62H04					

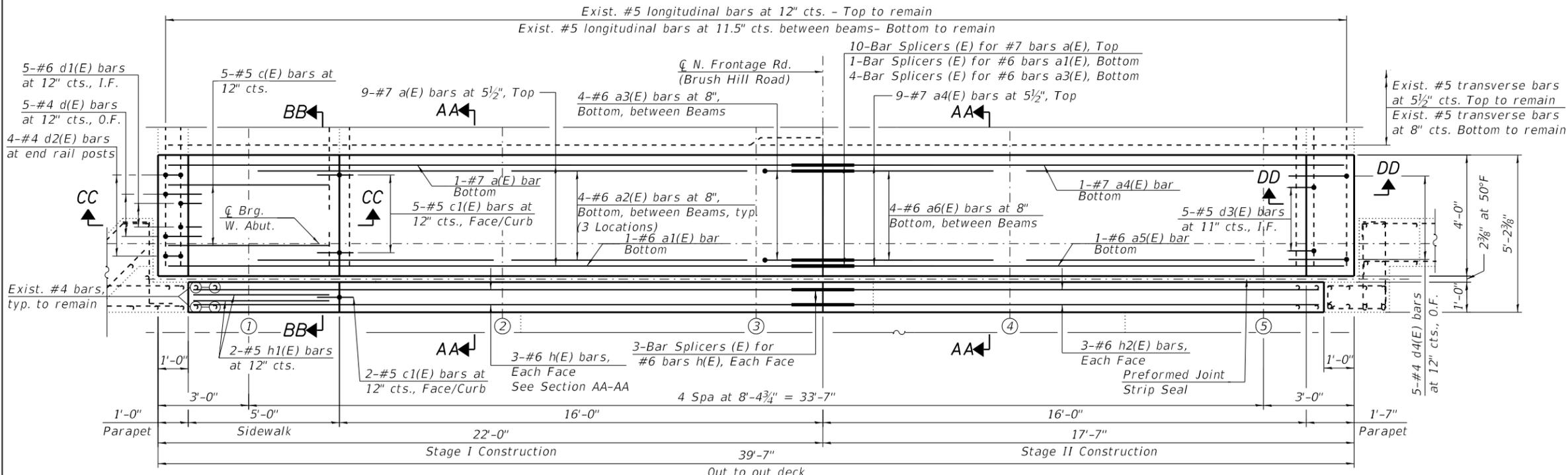
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	10	#7	21'-7"	—
a1(E)	1	#6	20'-7"	—
a2(E)	12	#6	7'-0"	—
a3(E)	4	#6	2'-6"	—
a4(E)	10	#7	17'-2"	—
a5(E)	1	#6	16'-2"	—
a6(E)	4	#6	5'-4"	—
c(E)	5	#5	5'-8"	—
c1(E)	7	#5	2'-5"	—
d(E)	5	#4	4'-10"	—
d1(E)	5	#6	3'-9"	—
d2(E)	4	#4	2'-0"	—
d3(E)	5	#5	3'-11"	—
d4(E)	5	#4	5'-2"	—
h(E)	6	#6	20'-8"	—
h1(E)	2	#5	4'-8"	—
h2(E)	6	#6	16'-3"	—
Concrete Removal		Cu. Yd.	13.8	
Concrete Superstructure		Cu. Yd.	14.7	
Protective Coat		Sq. Yd.	22	
Reinforcement Bars, Epoxy Coated		Pound	1,500	



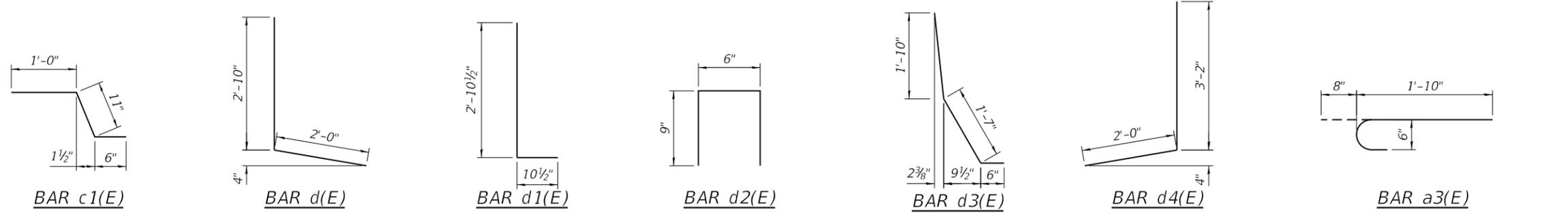
WEST ABUTMENT JOINT REMOVAL PLAN



WEST ABUTMENT JOINT RECONSTRUCTION PLAN

NOTES:

- For General Notes and Total Bill of Material, see Sheet S2-02.
- For Sections A-A, B-B, C-C, D-D, AA-AA, BB-BB, CC-CC and DD-DD, see Sheet S2-07.
- For preformed joint strip seal details, see Sheets S2-10 thru S2-12.
- For bar splicer details, see Sheet S2-14.
- 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 Superstructure.
- Remove and disconnect and reconnect existing Guardrail and terminal as required cost included with concrete removal.
- Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Superstructure.
- Protective coat shall be applied to top and inside face of parapets, sidewalks and the transverse joints reconstructed areas.



LEGEND:

	Concrete Removal
I.F.	- Inside Face
O.F.	- Outside Face

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\02280220028-62H04-006-WAbutRepair.dgn
12/10/2018 5:14:59 PM



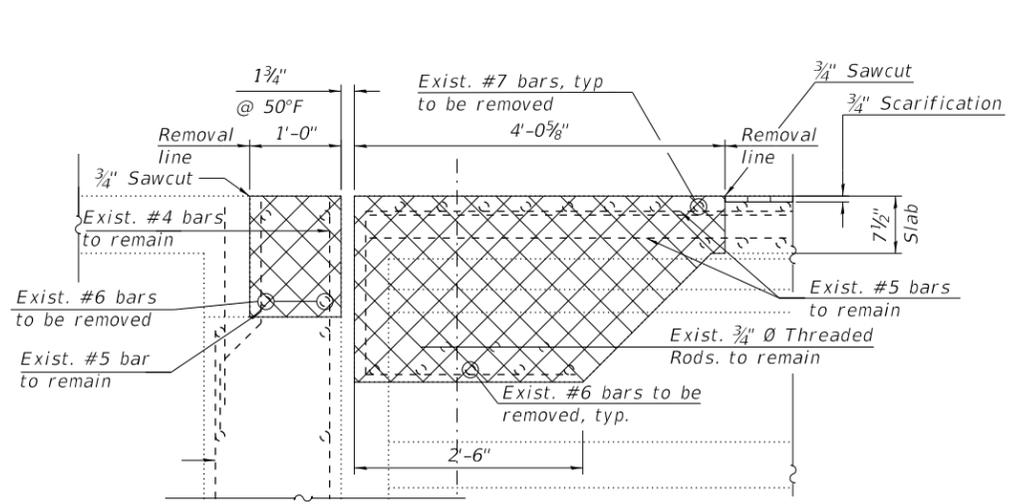
USER NAME =	DESIGNED - EK, MAA	REVISED -
PLOT SCALE =	CHECKED - MAI, MI	REVISED -
PLOT DATE =	DRAWN - HI, EK	REVISED -
	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

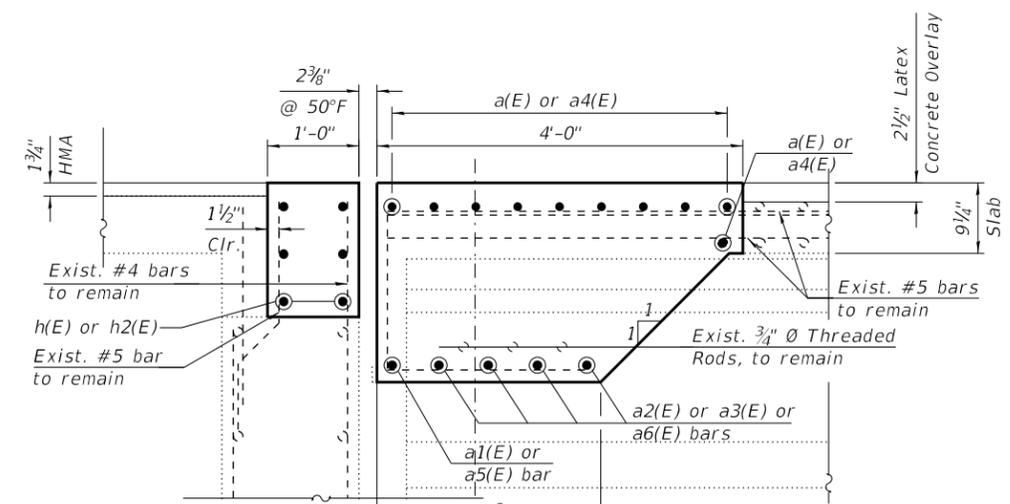
**W. ABUTMENT JOINT REMOVAL & RECONSTRUCTION (SHEET 1 OF 2)
STRUCTURE NO. 022-0028**

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	58
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

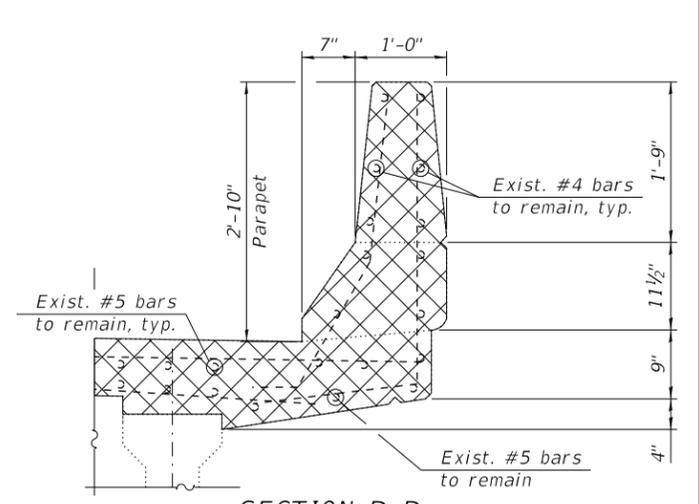
MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\02280220028-62H04-007-WAbutJTDet.dgn
 12/10/2018 5:15:01 PM



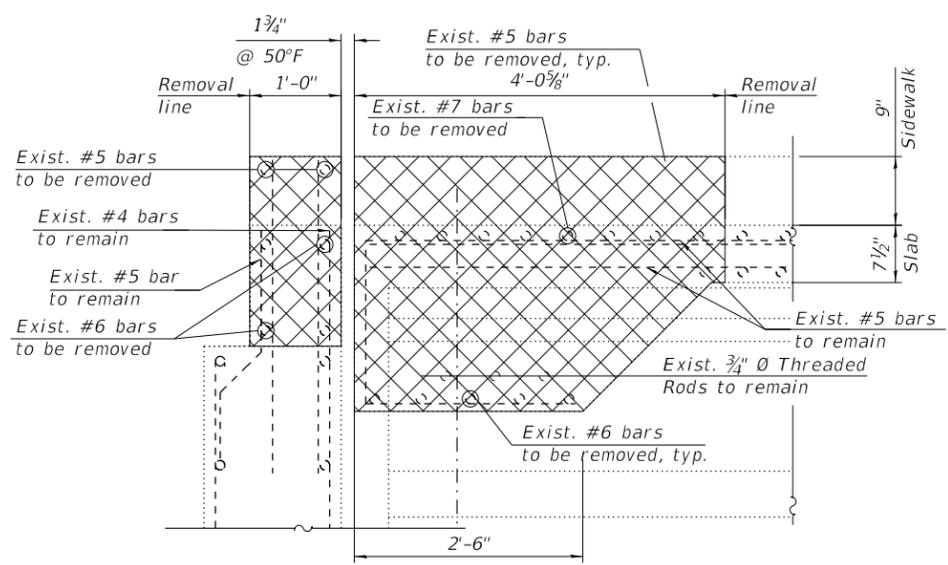
SECTION A-A



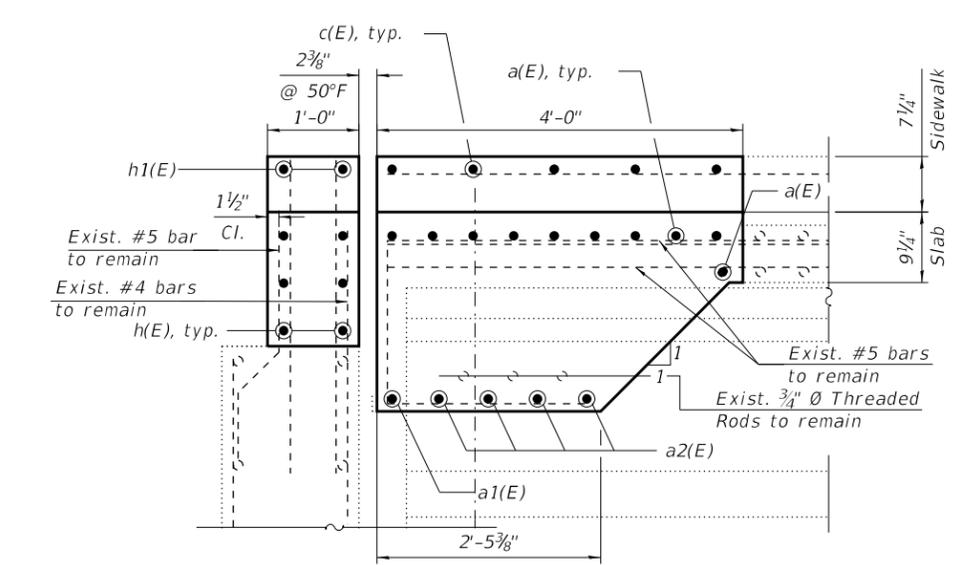
SECTION AA-AA



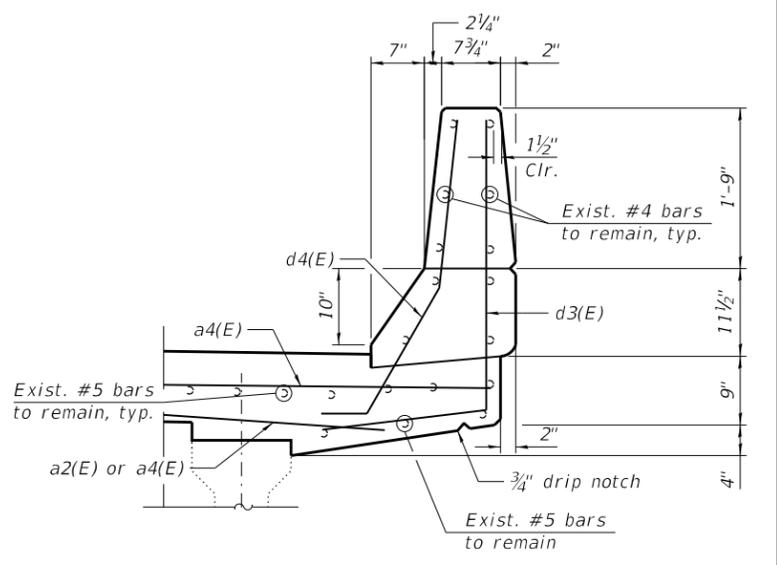
SECTION D-D



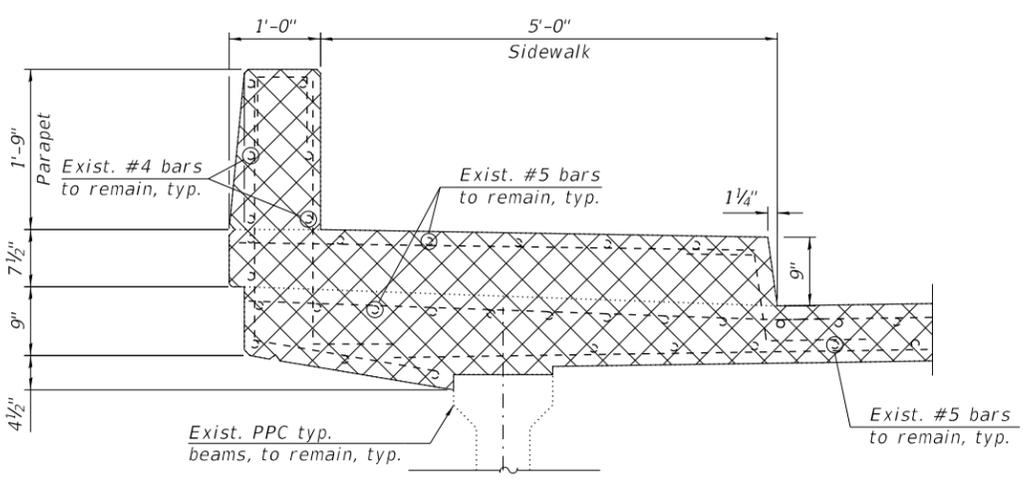
SECTION B-B



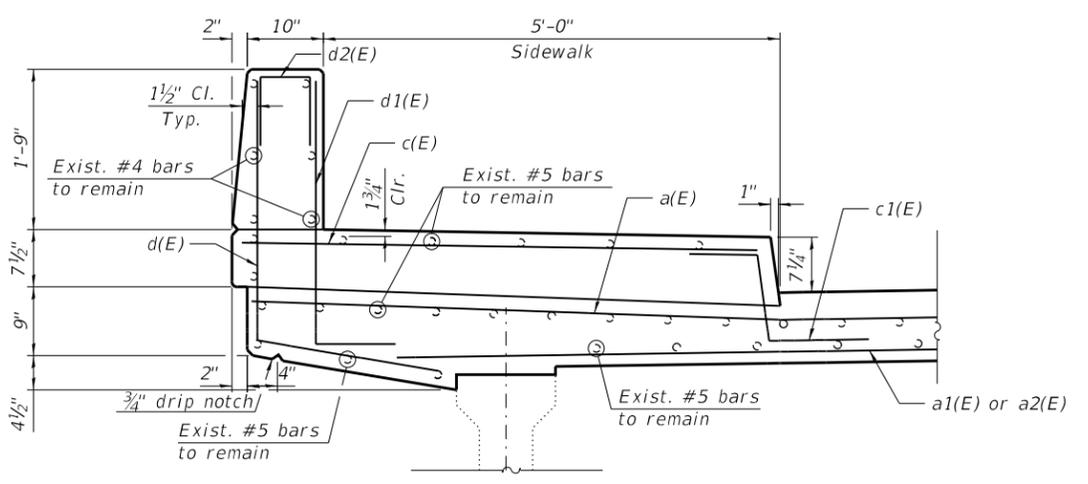
SECTION BB-BB



SECTION DD-DD



SECTION C-C



SECTION CC-CC

LEGEND

- Concrete Removal
- Scarification



USER NAME =	DESIGNED - EK, MAA	REVISED -
PLOT SCALE =	CHECKED - MAL, MI	REVISED -
PLOT DATE =	DRAWN - HI, EK	REVISED -
	DATE - 12/08/2018	REVISED -

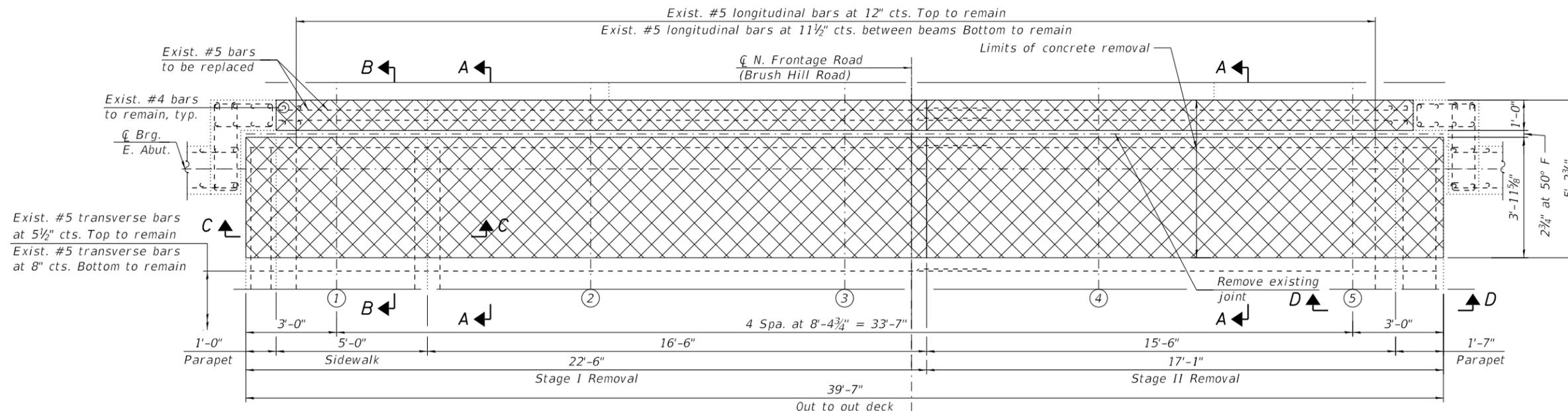
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

W. ABUTMENT JOINT REMOVAL & RECONSTRUCTION (SHEET 2 OF 2)
 STRUCTURE NO. 022-0028

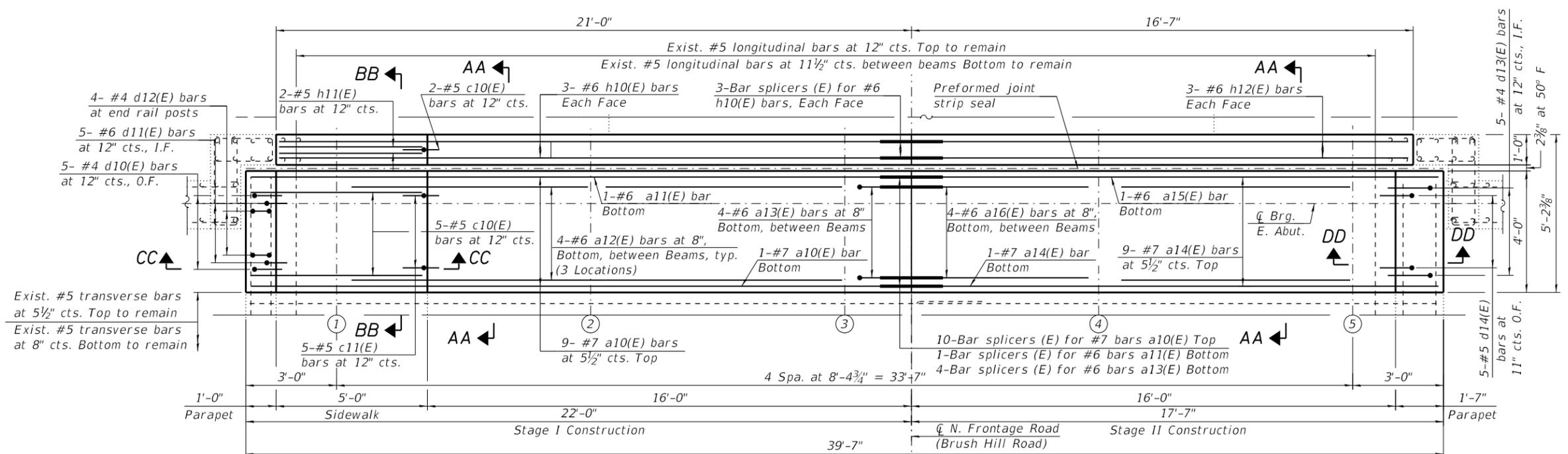
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	59
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	10	#7	21'-7"	—
a11(E)	1	#6	20'-7"	—
a12(E)	12	#6	7'-0"	—
a13(E)	4	#6	2'-6"	C
a14(E)	10	#7	17'-2"	—
a15(E)	1	#6	16'-2"	—
a16(E)	4	#6	5'-4"	—
c10(E)	5	#5	5'-8"	—
c11(E)	7	#5	2'-5"	—
d10(E)	5	#4	4'-10"	L
d11(E)	5	#6	3'-9"	L
d12(E)	4	#4	2'-0"	n
d13(E)	5	#4	5'-2"	J
d14(E)	5	#5	3'-11"	L
h10(E)	6	#6	20'-8"	—
h11(E)	2	#5	4'-8"	—
h12(E)	6	#6	16'-3"	—
Concrete Removal		Cu. Yd.	13.7	
Concrete Superstructure		Cu. Yd.	14.9	
Protective Coat		Cu. Yd.	22	
Reinforcement Bars, Epoxy Coated		Pound	1,500	

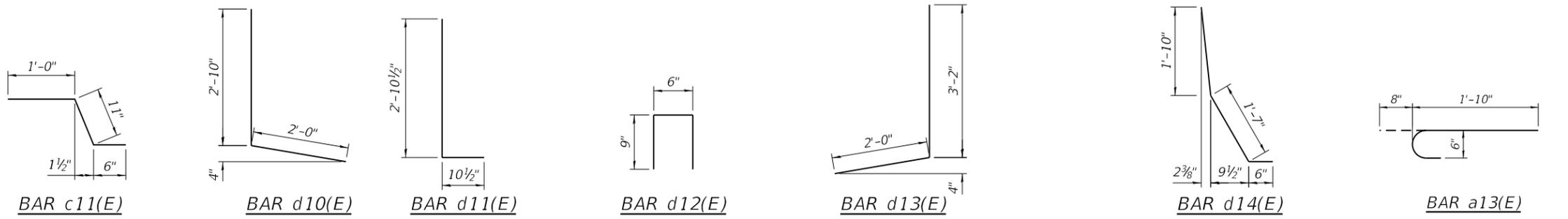


EAST ABUTMENT JOINT REMOVAL PLAN



EAST ABUTMENT JOINT REPLACEMENT PLAN

- NOTES:**
1. For General Notes and Total Bill of Material, see Sheet S2-02
 2. For Sections A-A, B-B, C-C, D-D, AA-AA, BB-BB, CC-CC and DD-DD, see Sheet S2-09.
 3. For preformed joint strip seal details, see Sheets S2-10 thru S2-12.
 4. For bar splicer details, see Sheet S2-14
 5. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction.
 6. Remove and disconnect and reconnect existing Guardrail and terminal as required. Cost included with Concrete Removal.
 7. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Superstructure.
 8. Protective coat shall be applied to top and inside face of parapets, sidewalks and the transverse joints reconstructed areas.



LEGEND

	Concrete Removal
I.F.	Inside Face
O.F.	Outside Face

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\02280220028-62H04-008-EAbutJRepar.dgn
12/10/2018 5:15:03 PM



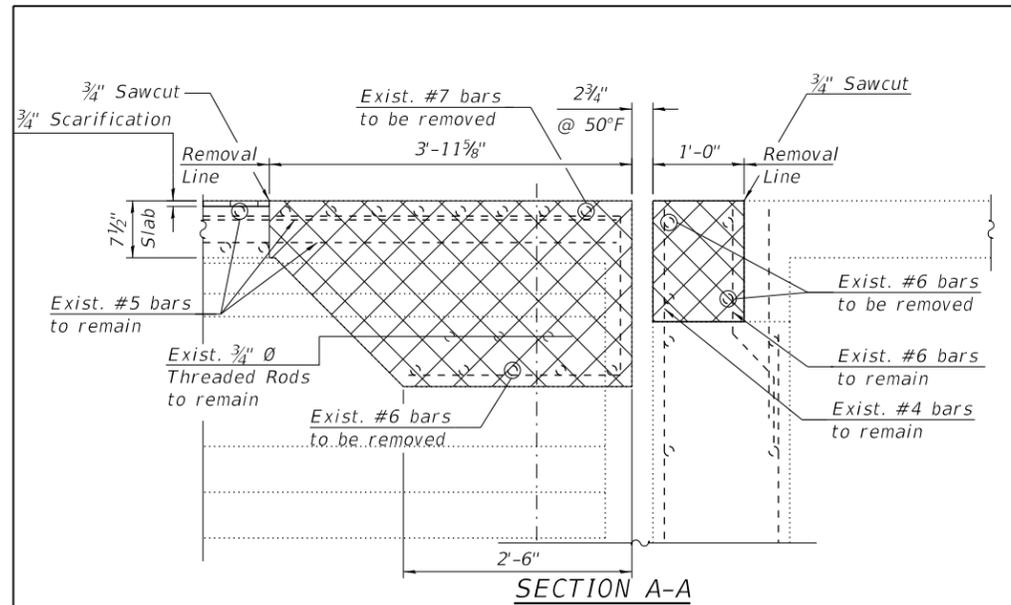
USER NAME =	DESIGNED - EK, MAA	REVISED -
PLOT SCALE =	CHECKED - MAI, MI	REVISED -
PLOT DATE =	DRAWN - MS, EK	REVISED -
	DATE - 12/08/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

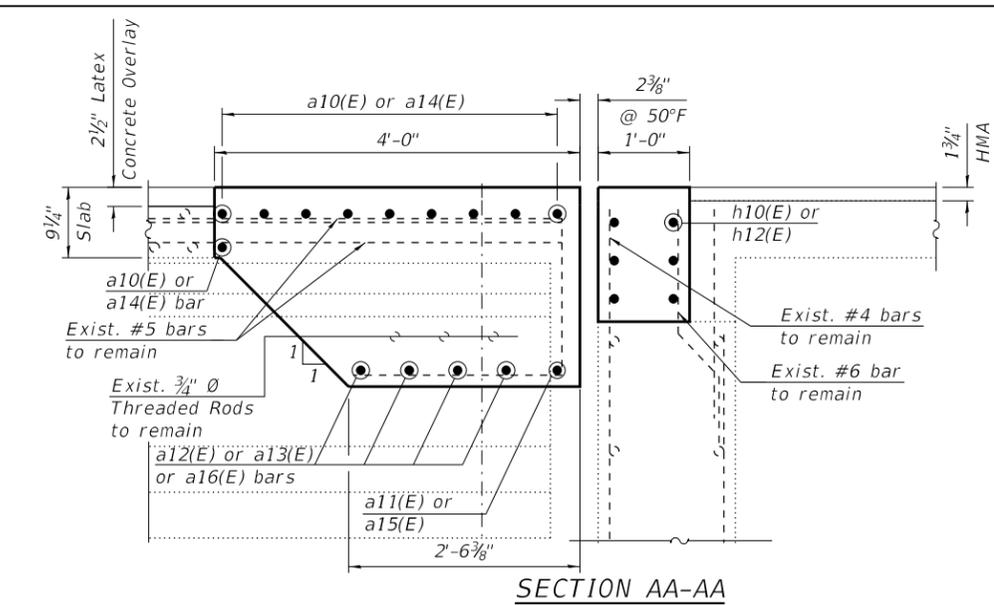
**E. ABUTMENT JOINT REMOVAL & RECONSTRUCTION (SHEET 1 OF 2)
STRUCTURE NO. 022-0028**

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	60
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

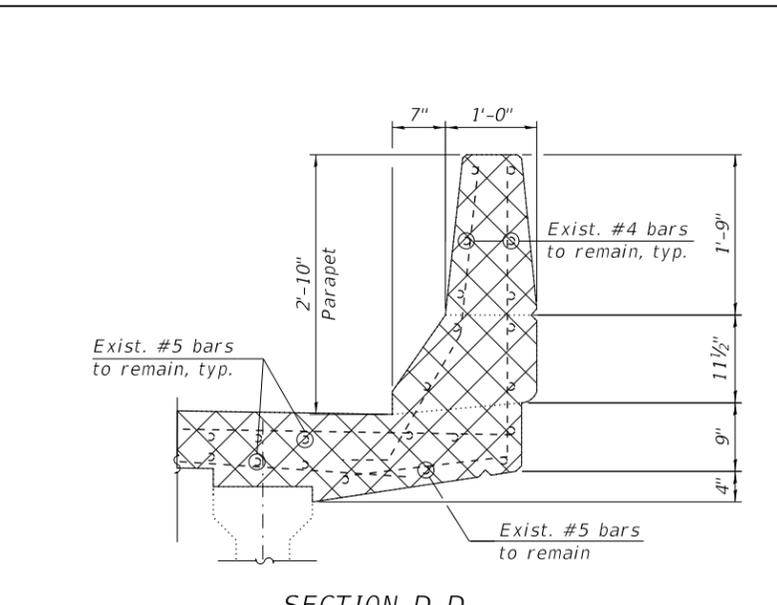
MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\W0 10 IL38@Salt Creek\Sheets\0228\022002-8-62\H04-009-E\AbutDet.dgn
 12/10/2018 5:15:05 PM



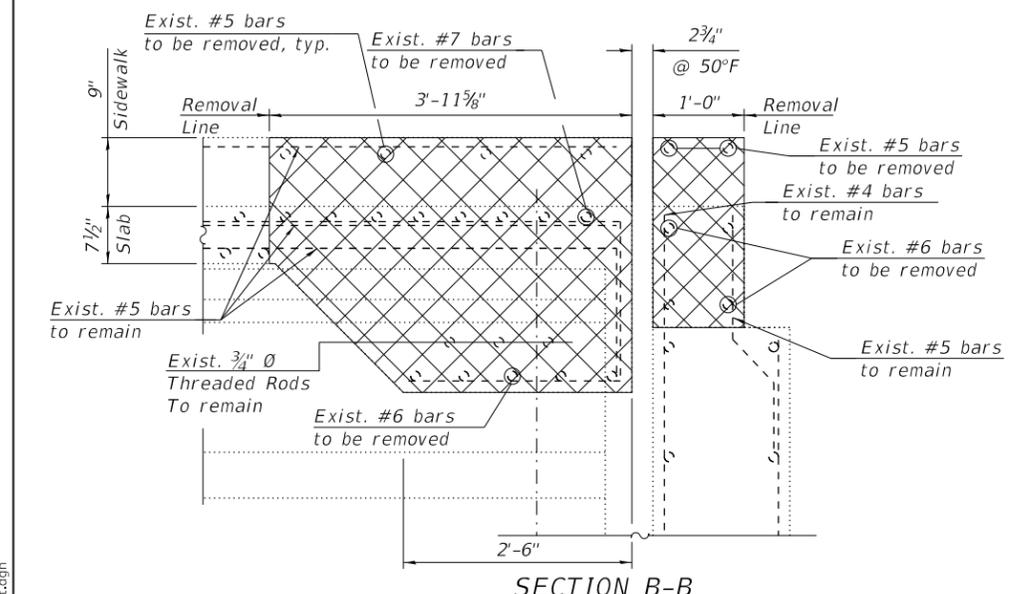
SECTION A-A



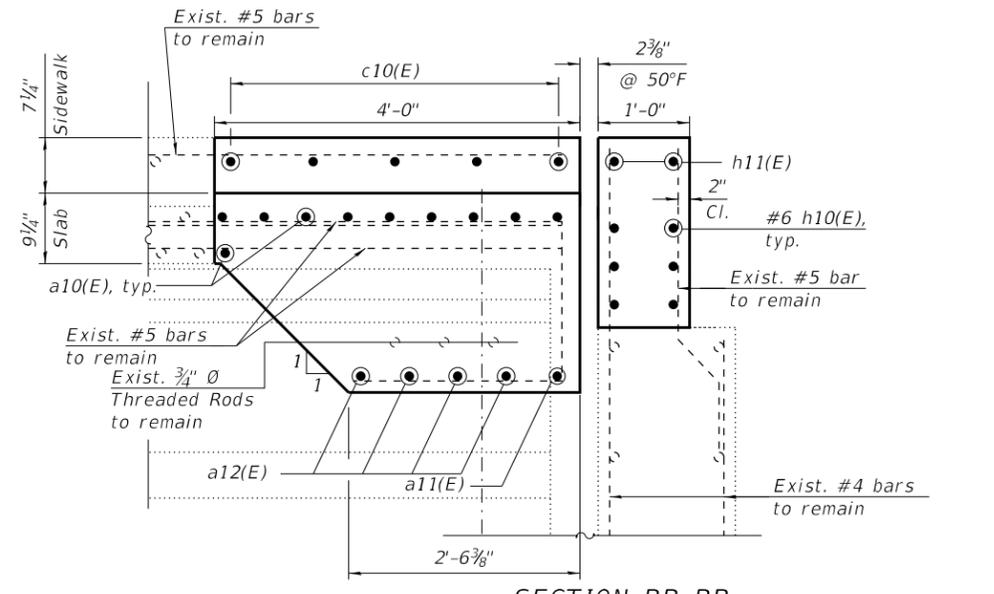
SECTION AA-AA



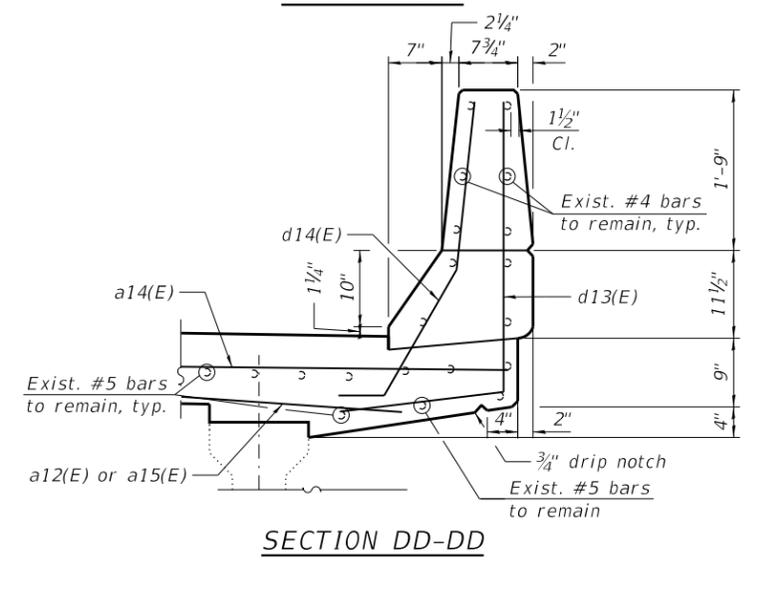
SECTION D-D



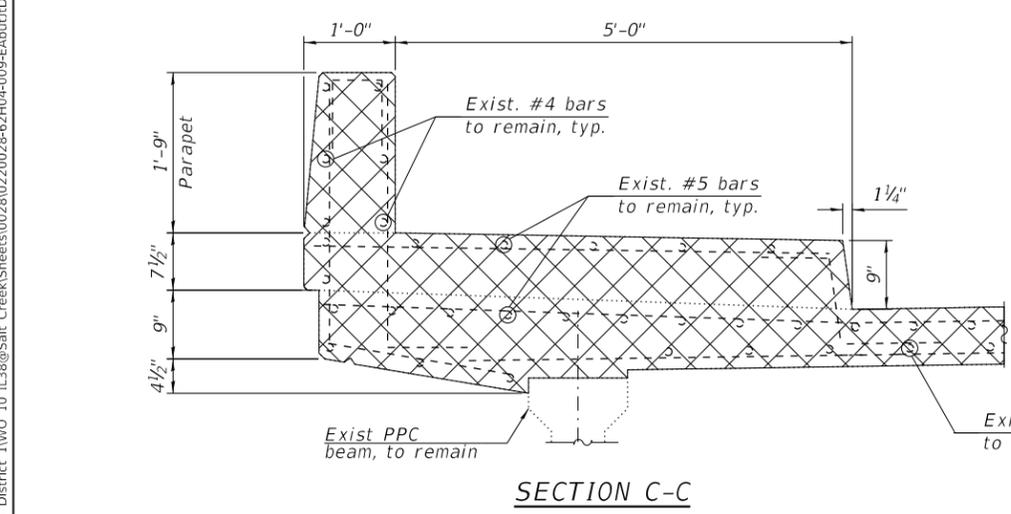
SECTION B-B



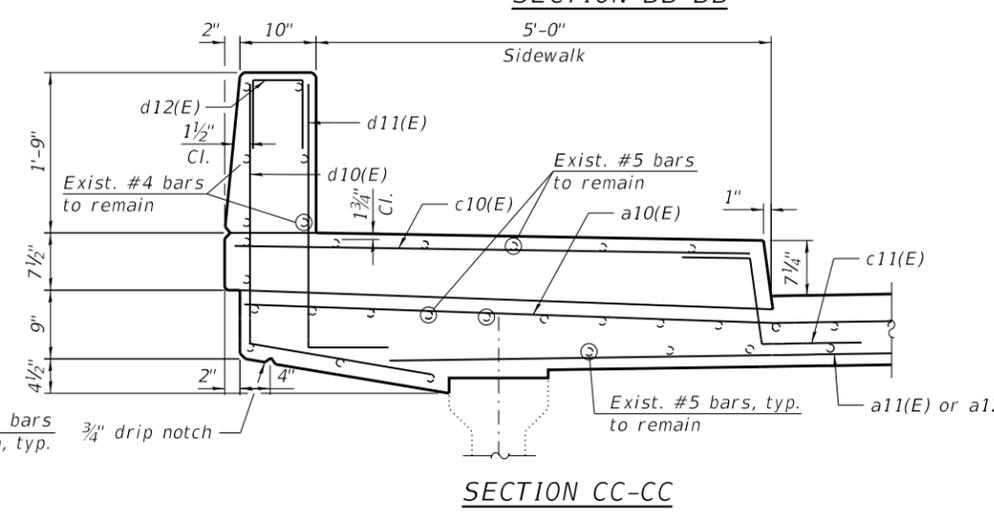
SECTION BB-BB



SECTION DD-DD



SECTION C-C



SECTION CC-CC

LEGEND

	Concrete Removal
	Scarification



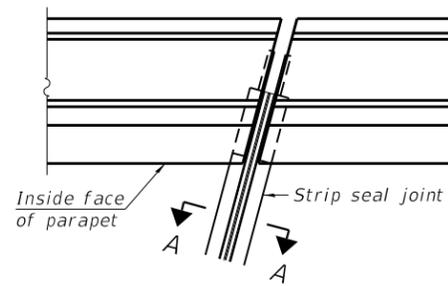
USER NAME =	DESIGNED - EK, MAA	REVISED -
PLOT SCALE =	CHECKED - MAL, MI	REVISED -
PLOT DATE =	DRAWN - MS, EK	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

E. ABUTMENT JOINT REMOVAL & RECONSTRUCTION (SHEET 2 OF 2)
 STRUCTURE NO. 022-0028

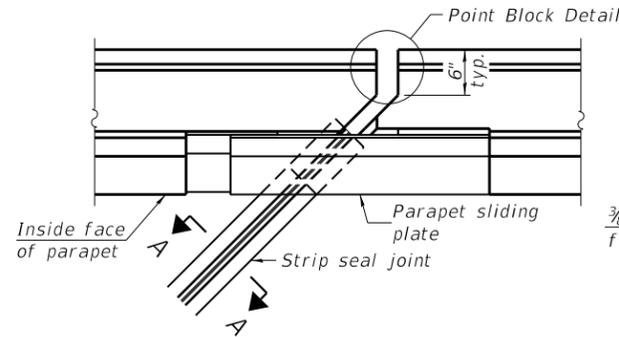
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	61
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

SHEET S2-09 OF S2-14 SHEETS

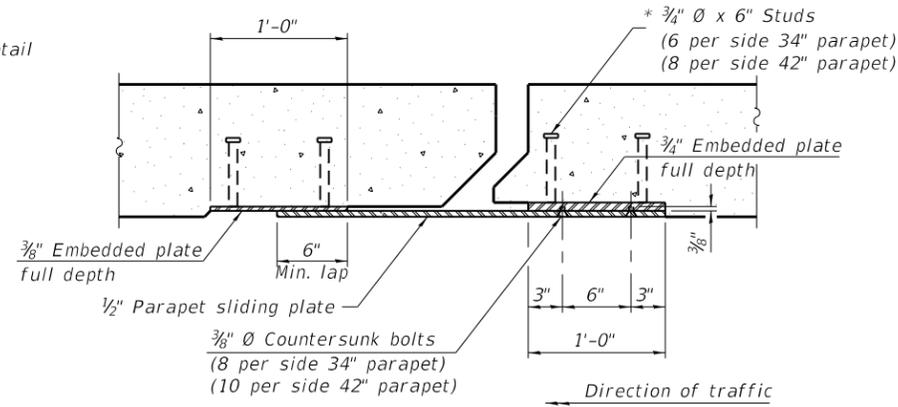


FOR SKEWS $\leq 30^\circ$

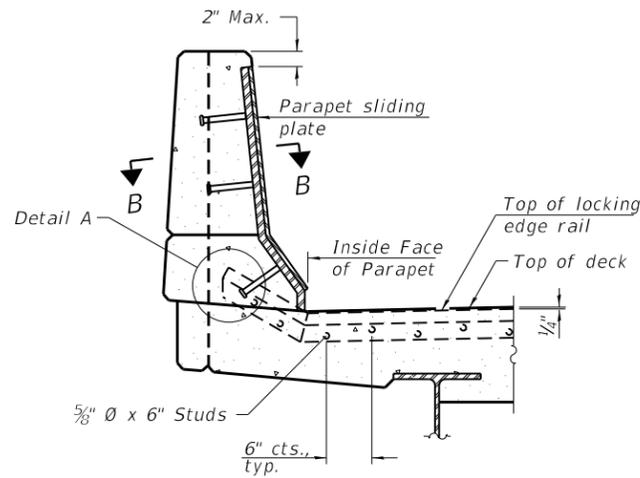
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

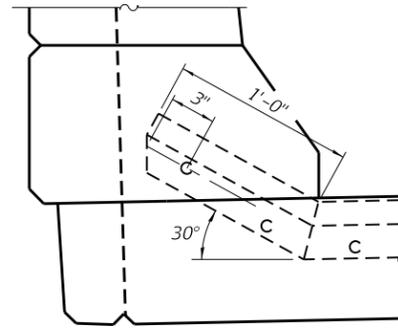


SECTION B-B

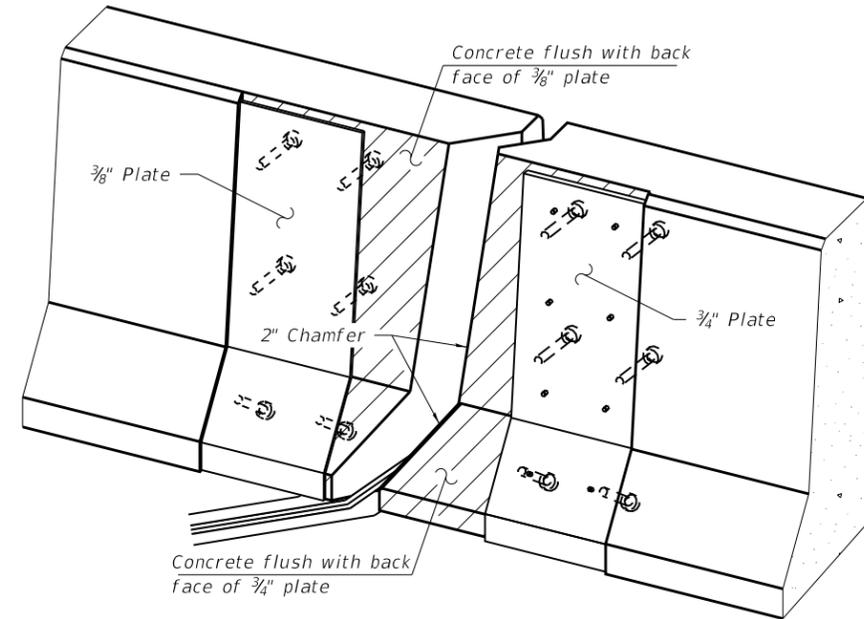


ELEVATION AT PARAPET

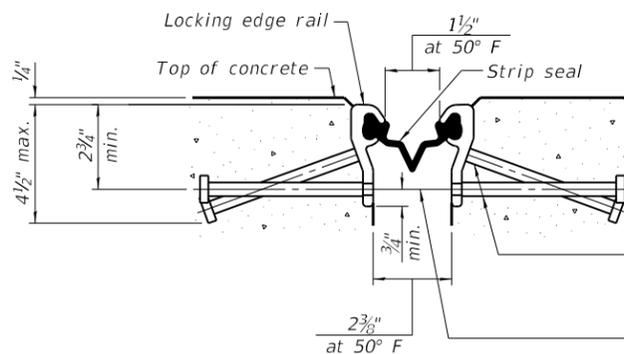
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



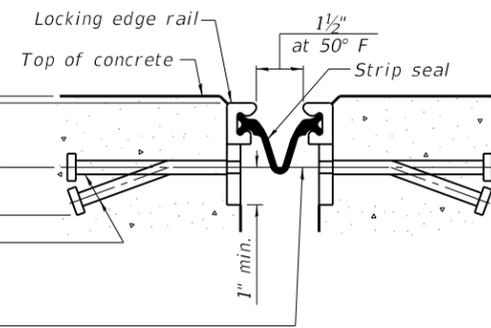
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

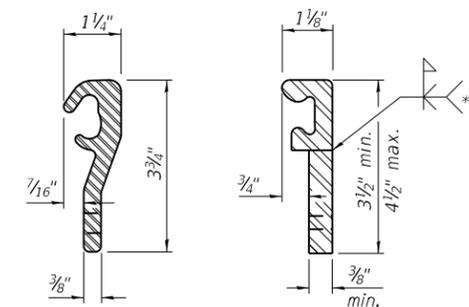
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

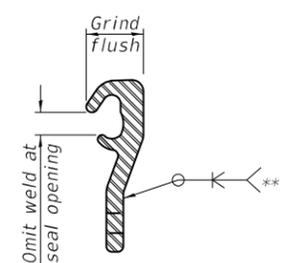


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** 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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	80

(Sheet 1 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 1 OF 3)
STRUCTURE NO. 022-0028

SHEET S2-10 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	62
CONTRACT NO. 62H04					

ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt_Creek\Sheets\0028\0220028-62\H04-010-PP1.dgn
12/10/2018 5:15:06 PM

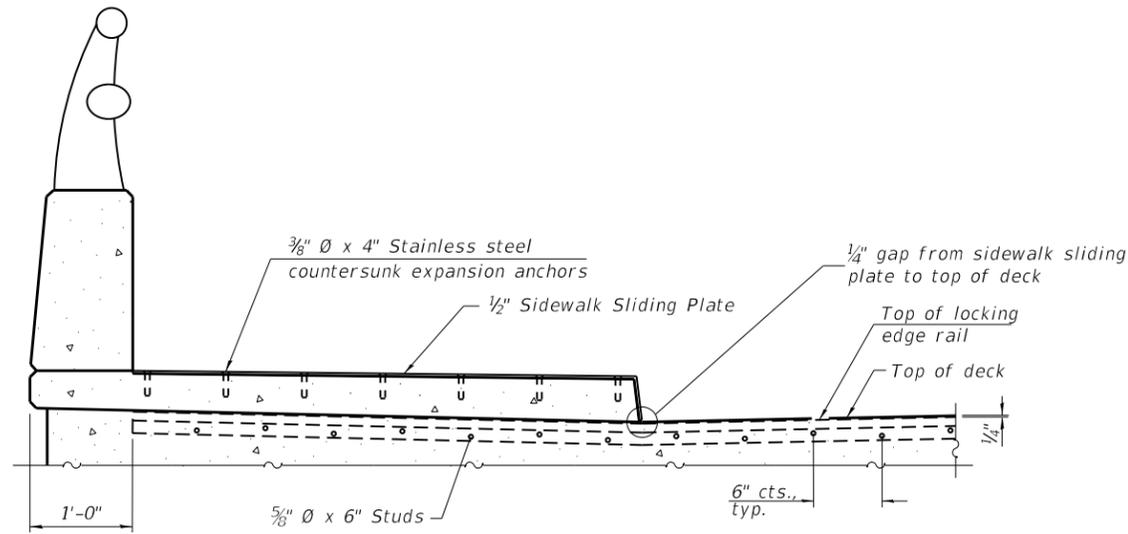
EJ-SS-S

8-11-17

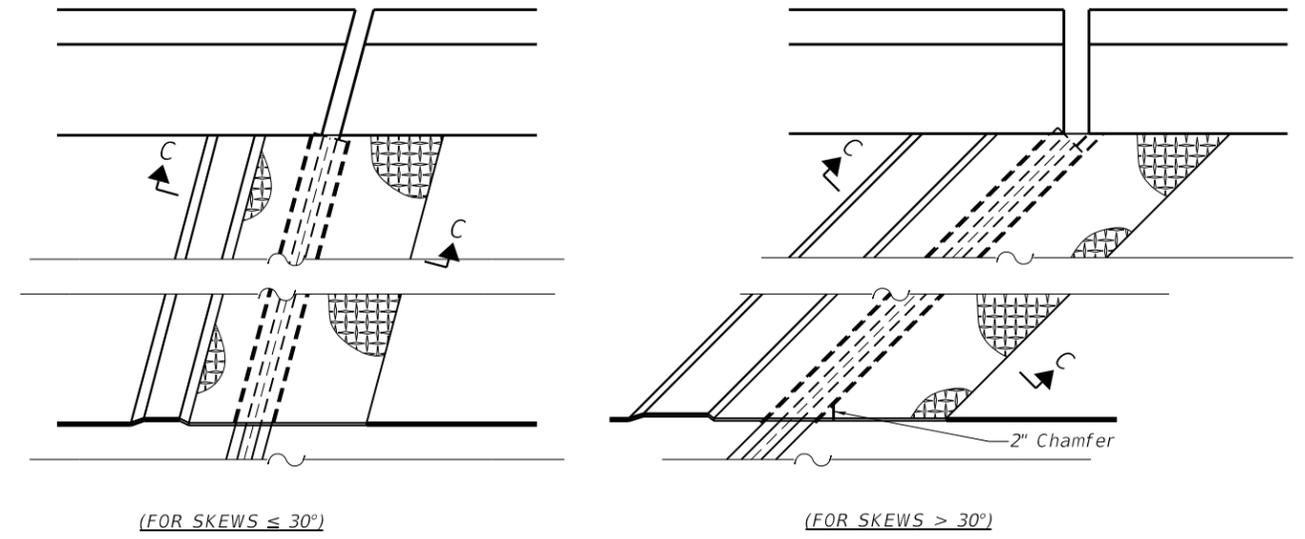
HBM
ENGINEERING GROUP, LLC

USER NAME	DESIGNED	MAA	REVISED
	CHECKED	MAL, MI	REVISED
	DRAWN	MAA	REVISED
	DATE	12/08/2018	REVISED

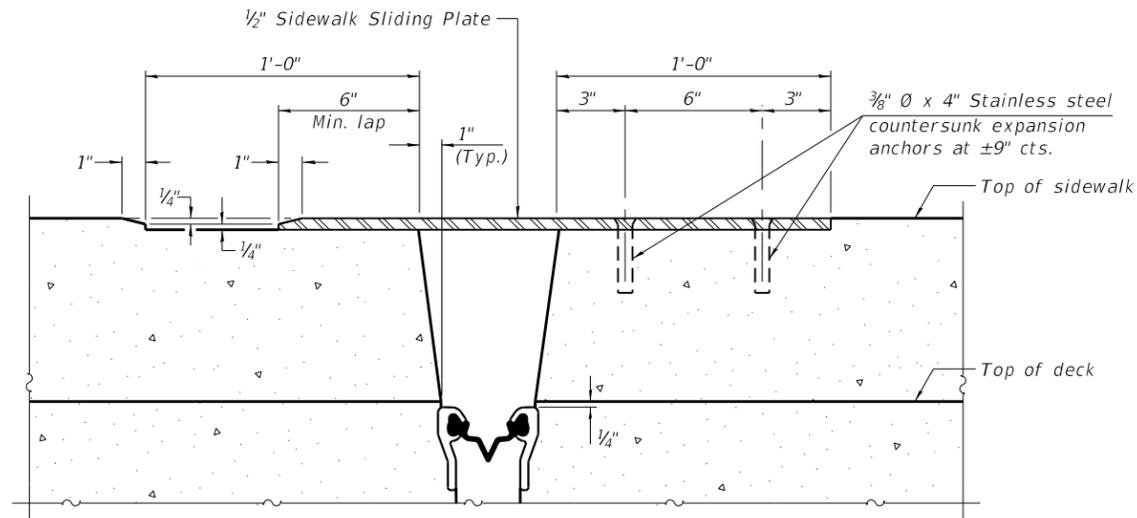
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



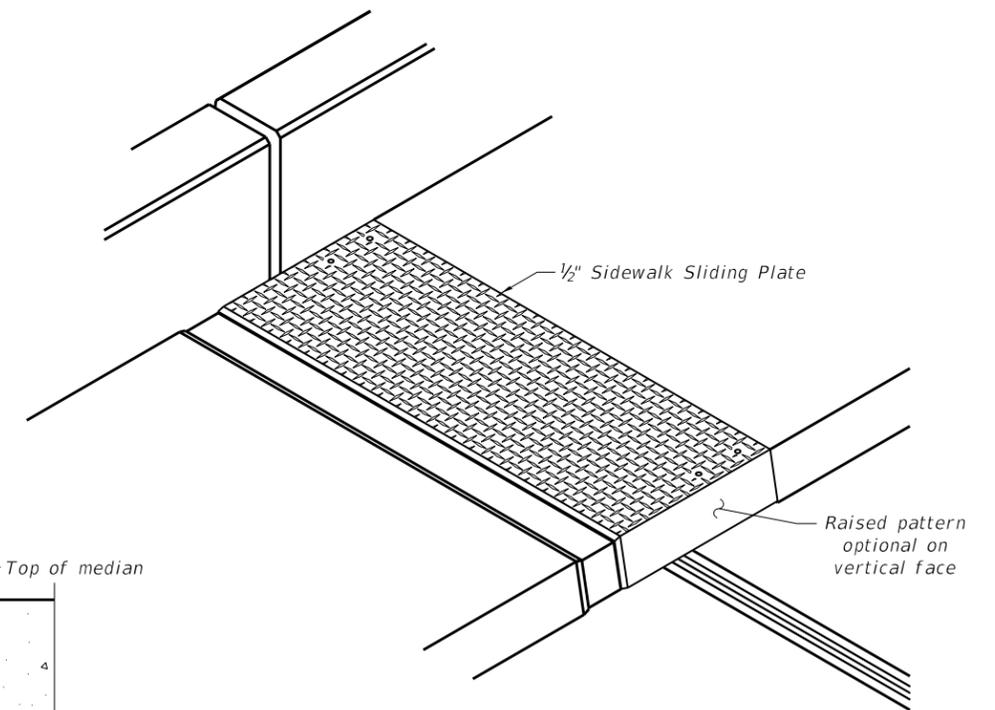
ELEVATION AT RAISED SIDEWALK



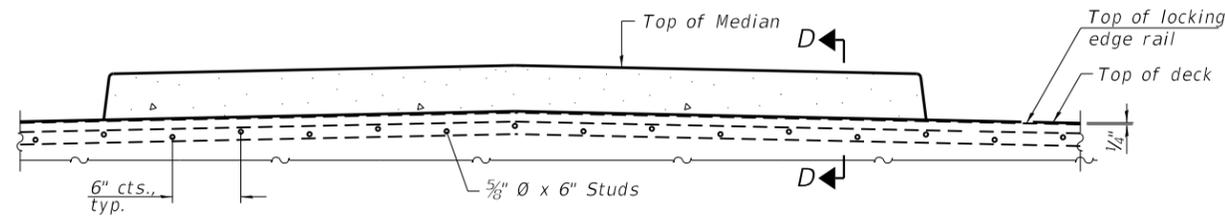
PLAN AT RAISED SIDEWALK



SECTION C-C

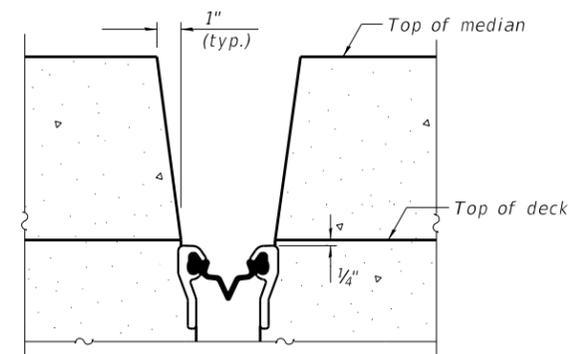


TRIMETRIC VIEW



ELEVATION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



SECTION D-D
(at Rt. L's)

EJ-SS-S

8-11-17

(Sheet 2 of 3)

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0220028-62\H04-011-PP\F2.dgn



USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MAL, MI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

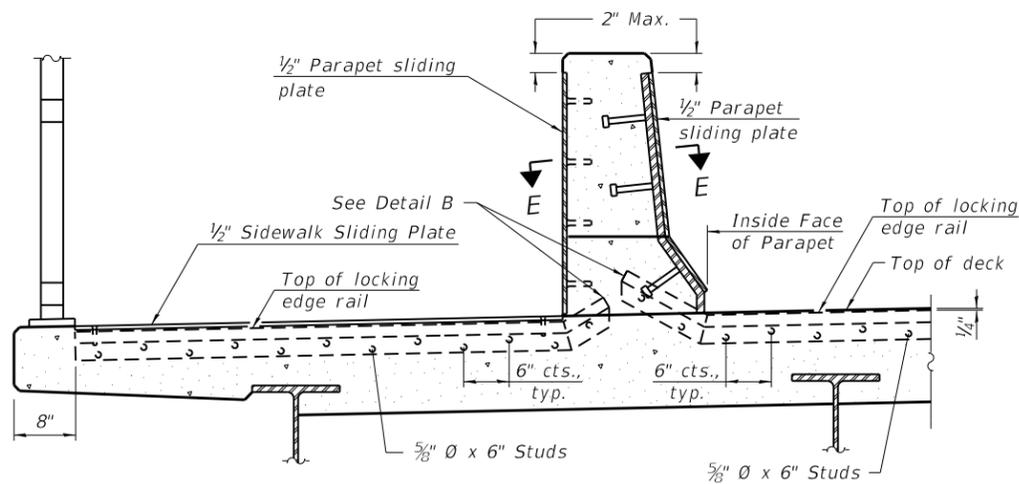
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 2 OF 3)
STRUCTURE NO. 022-0028**

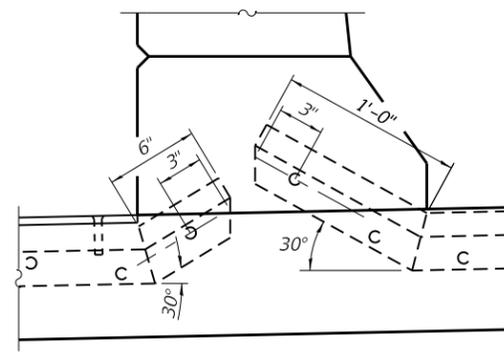
SHEET S2-11 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	63
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

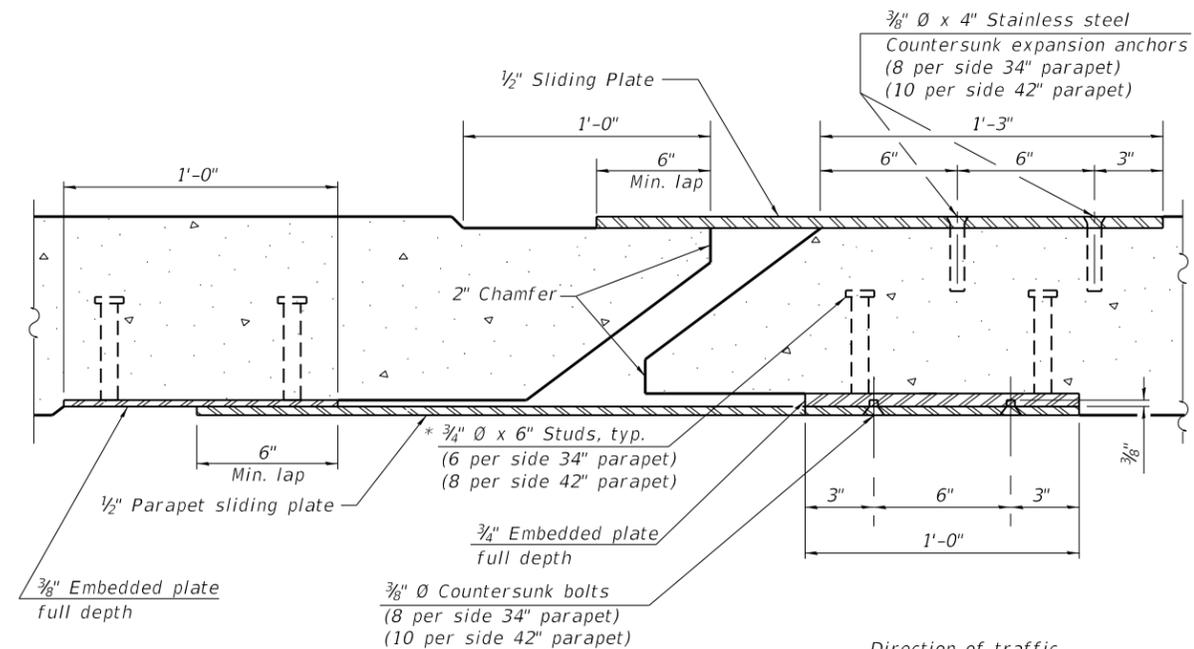
12/10/2018 5:15:08 PM



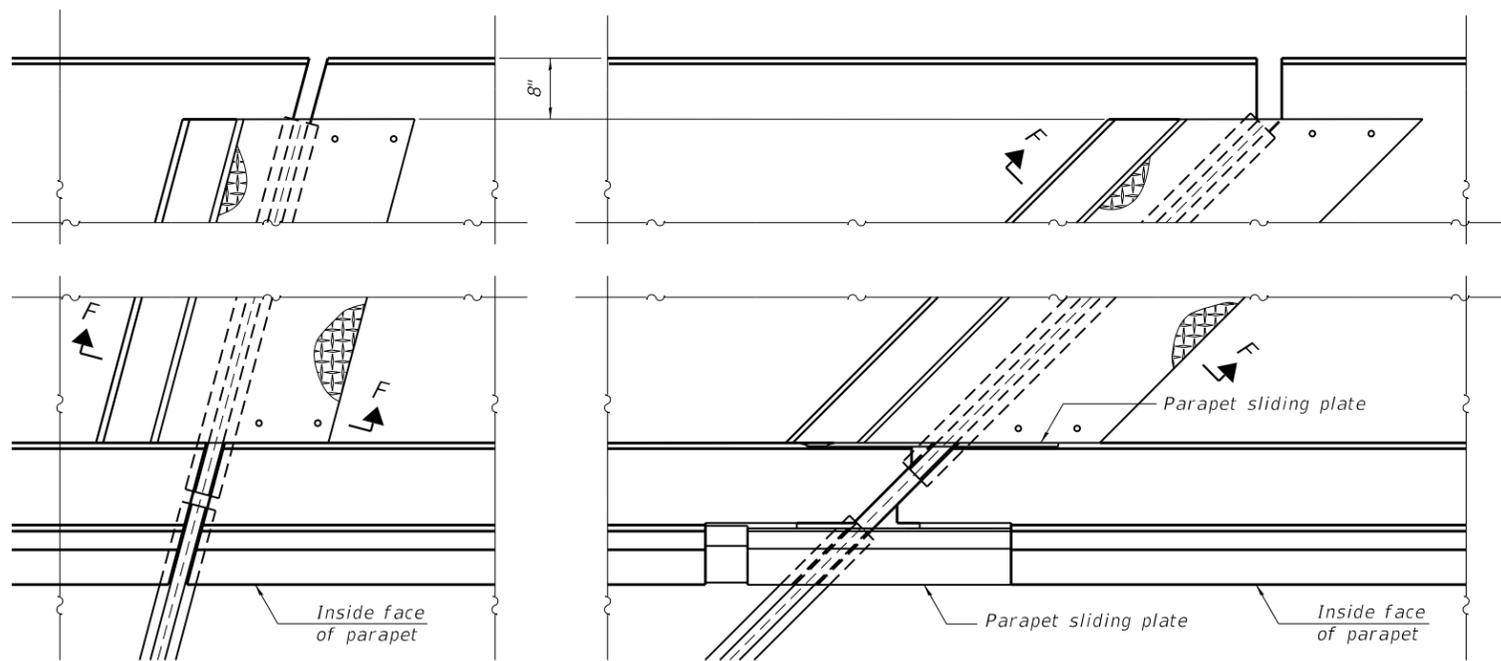
ELEVATION AT DECK LEVEL SIDEWALK
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL B



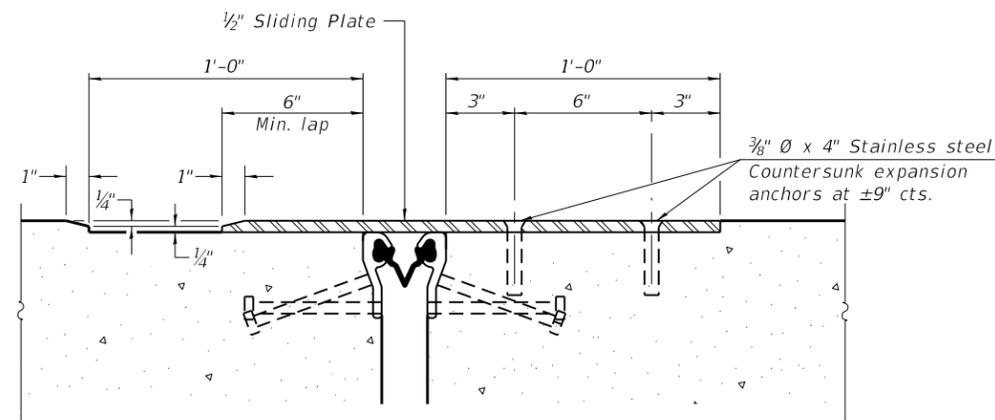
SECTION E-E



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

(Sheet 3 of 3)

EJ-SS-S

8-11-17

HBM
 ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - MAA	REVISED -
PLOT SCALE =	CHECKED - MAL, MI	REVISED -
PLOT DATE =	DRAWN - MAA	REVISED -
	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK (SHEET 3 OF 3)
 STRUCTURE NO. 022-0028

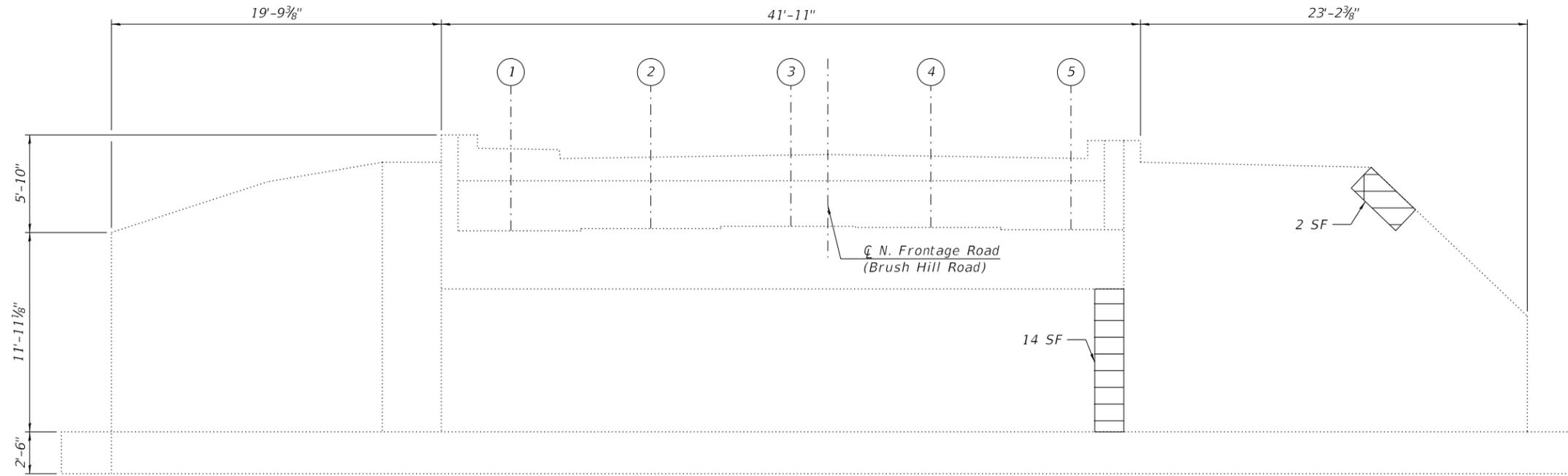
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	64
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

SHEET S2-12 OF S2-14 SHEETS

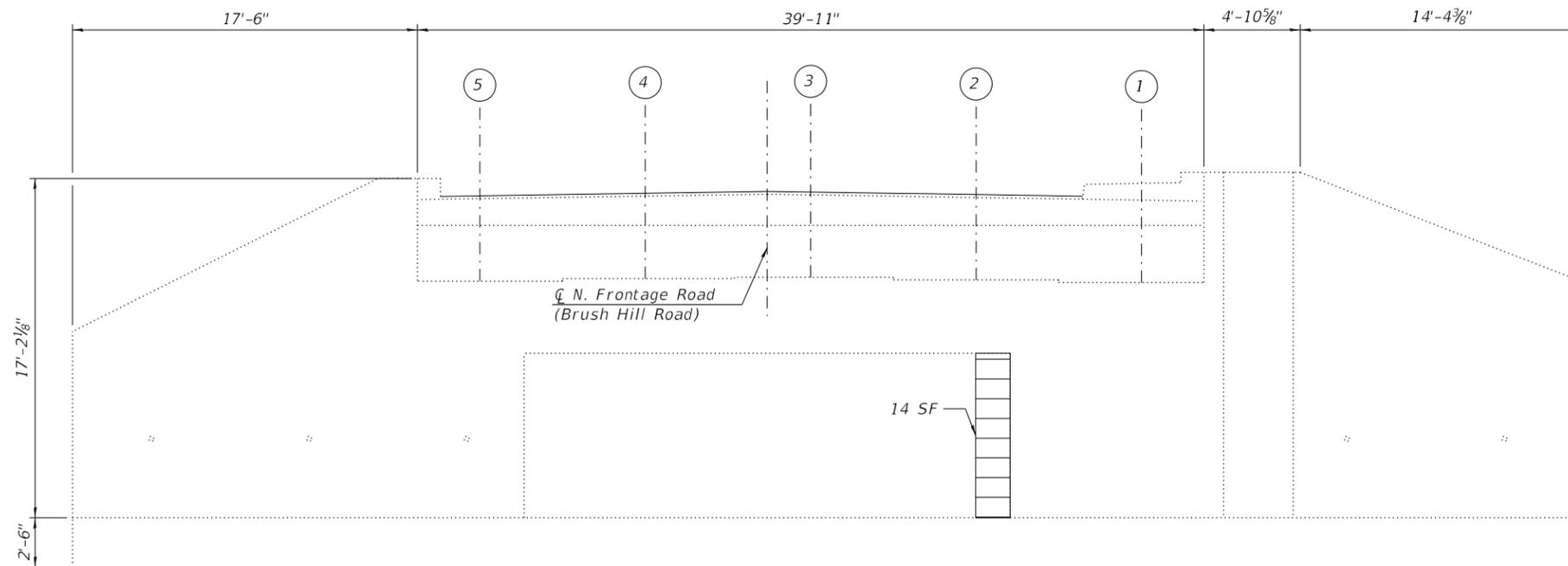
MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt_Creek\Sheets\0028\0220028-62H04-012-P\F3.dgn
 12/10/2018 5:15:09 PM

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	SQ FT	28
Structural Repair of Concrete (Depth Greater Than 5")	SQ FT	2



EAST ABUTMENT - ELEVATION



WEST ABUTMENT - ELEVATION

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- The Contractor shall be responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be included with Structural Repair of Concrete (Depth Equal to or Less than 5 inches).

LEGEND

	Structural Repair of Concrete (Depth Equal to or Less Than 5")
	Structural Repair of Concrete (Depth Greater Than 5")

MODEL: Default
FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0228\0220028-62\H04-013-Abut Repairs.dgn



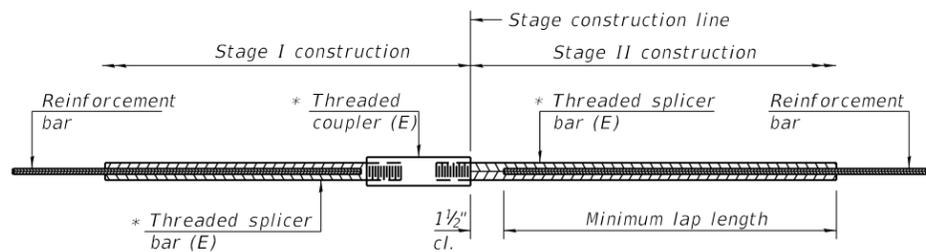
USER NAME =	DESIGNED - MAA	REVISED -
CHECKED - MAL, MI	DRAWN - MS	REVISED -
PLOT SCALE =	DATE - 12/08/2018	REVISED -
PLOT DATE =		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENTS REPAIRS
STRUCTURE NO. 022-0028**

SHEET S2-13 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	65
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

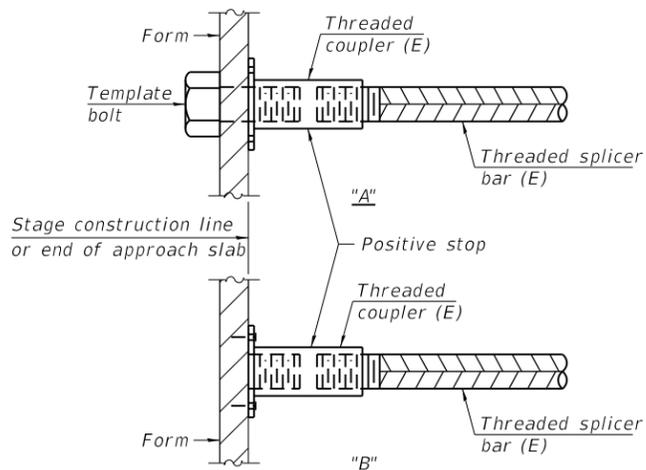


STANDARD BAR SPLICER ASSEMBLY

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

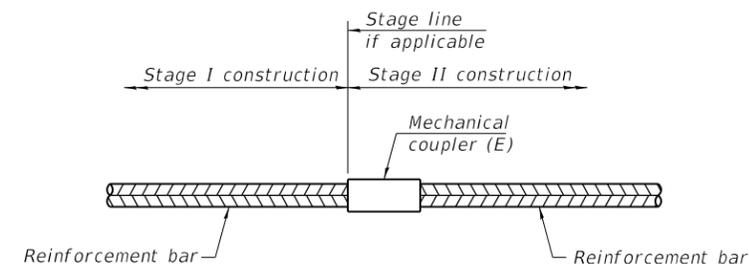
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#6	10	3'-7"
W. Abut.	#6	20	4'-2"
E. Abut.	#6	6	3'-7"



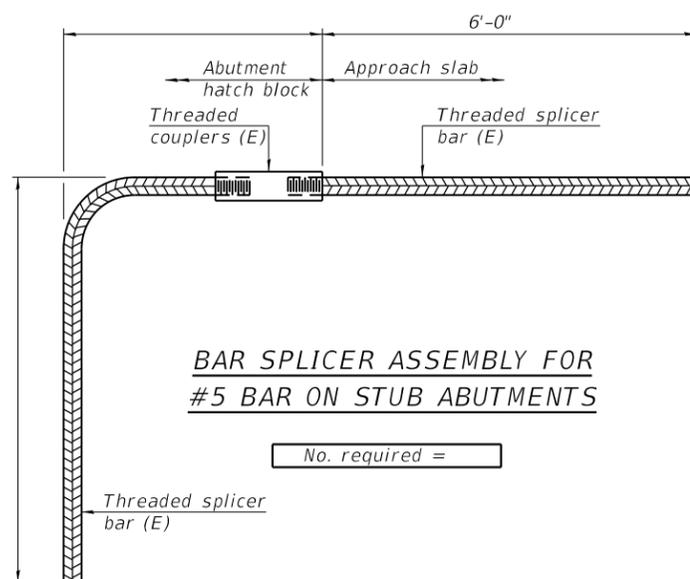
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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.

MODEL: Default
 FILE NAME: P:\1710-746 IDOT District 1\WO 10 IL38@Salt Creek\Sheets\0228\0220028-62H04-014-BarSplicer.dgn

BSD-1

2-17-2017



USER NAME =	DESIGNED - MAA	REVISED -
	CHECKED - MAI, MI	REVISED -
PLOT SCALE =	DRAWN - MAA	REVISED -
PLOT DATE =	DATE - 12/08/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 022-0028

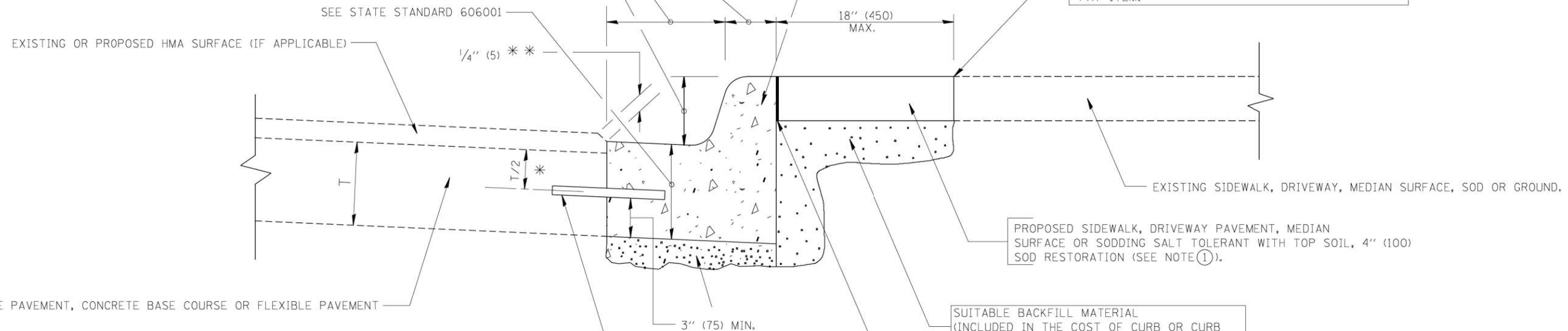
SHEET S2-14 OF S2-14 SHEETS

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DU PAGE	74	66
CONTRACT NO. 62H04					
ILLINOIS FED. AID PROJECT					

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.



PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

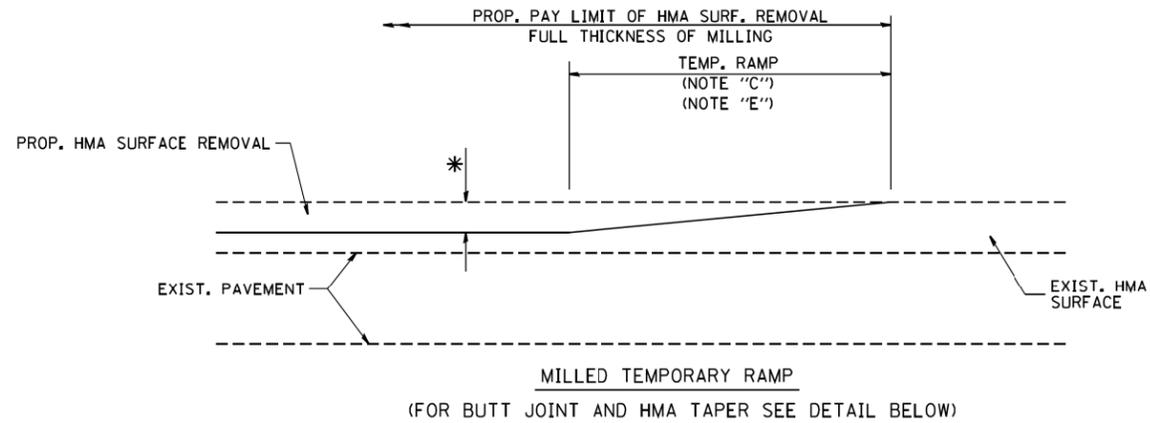
- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

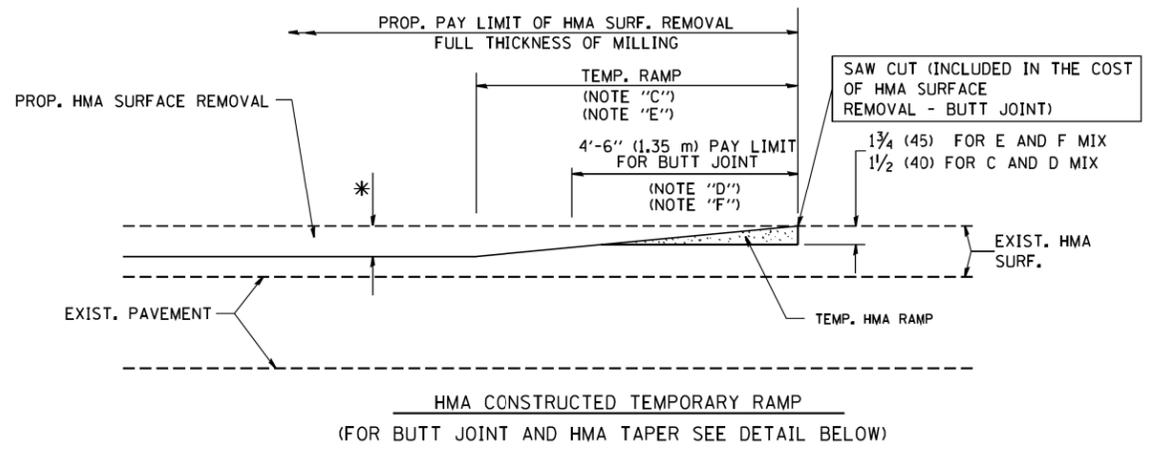
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

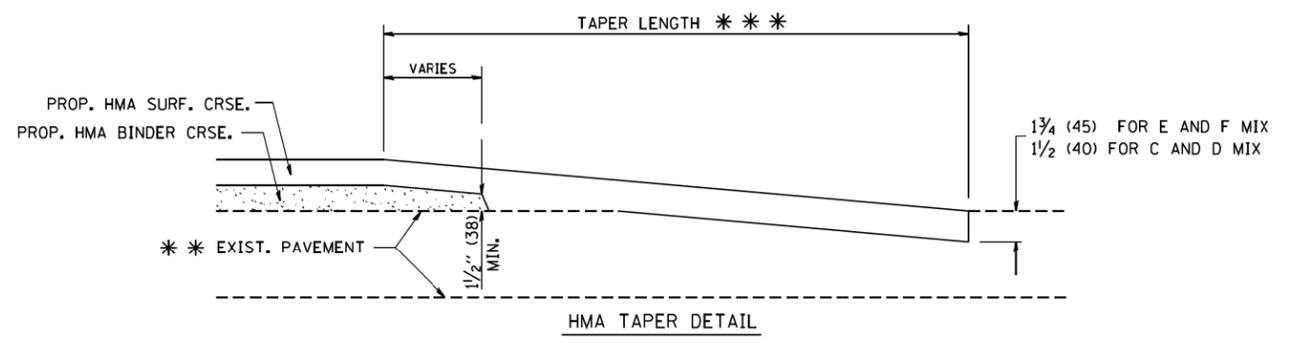
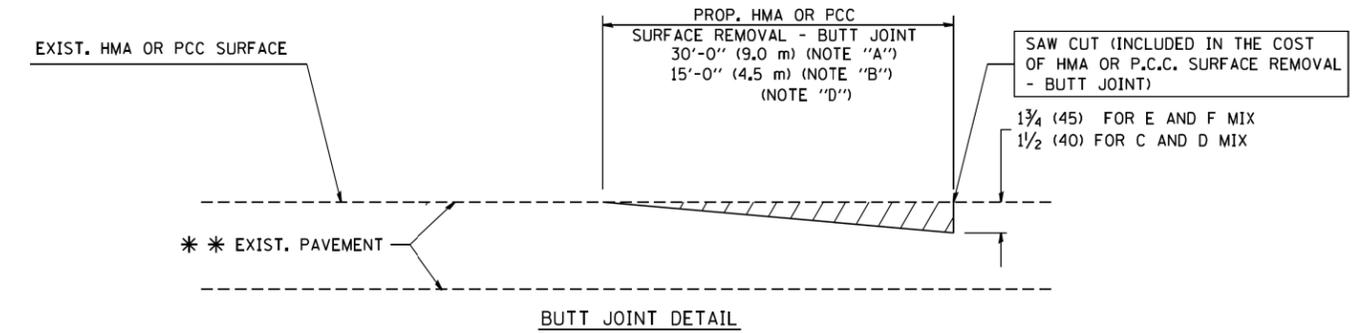
FILE NAME =	USER NAME = drivkasgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\dot\drivkasgn\d0108315\bc24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97			347	550	2018-044-BD&BJR	DUPAGE	74	67
		CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 62H04			
		DATE - 03-11-94	REVISED - R. BORO 12-15-09			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

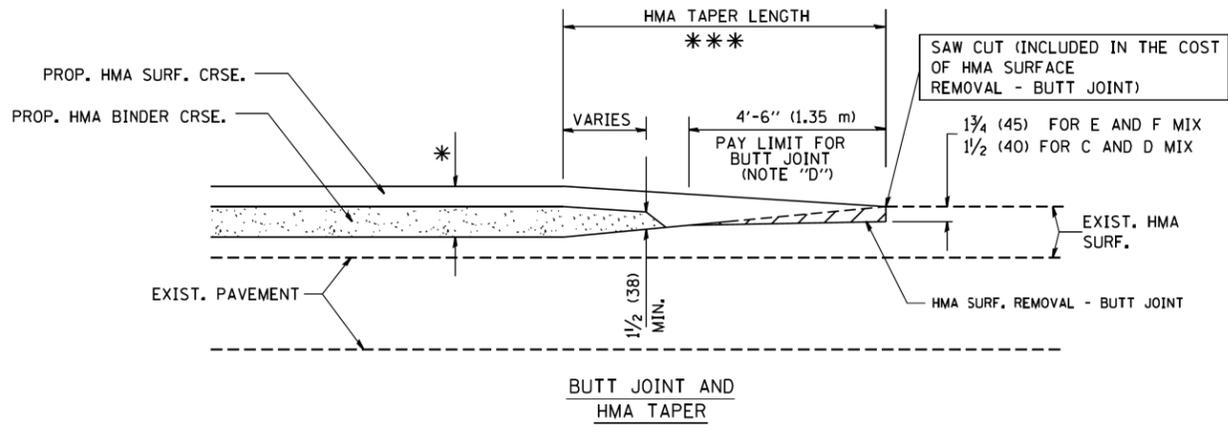
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

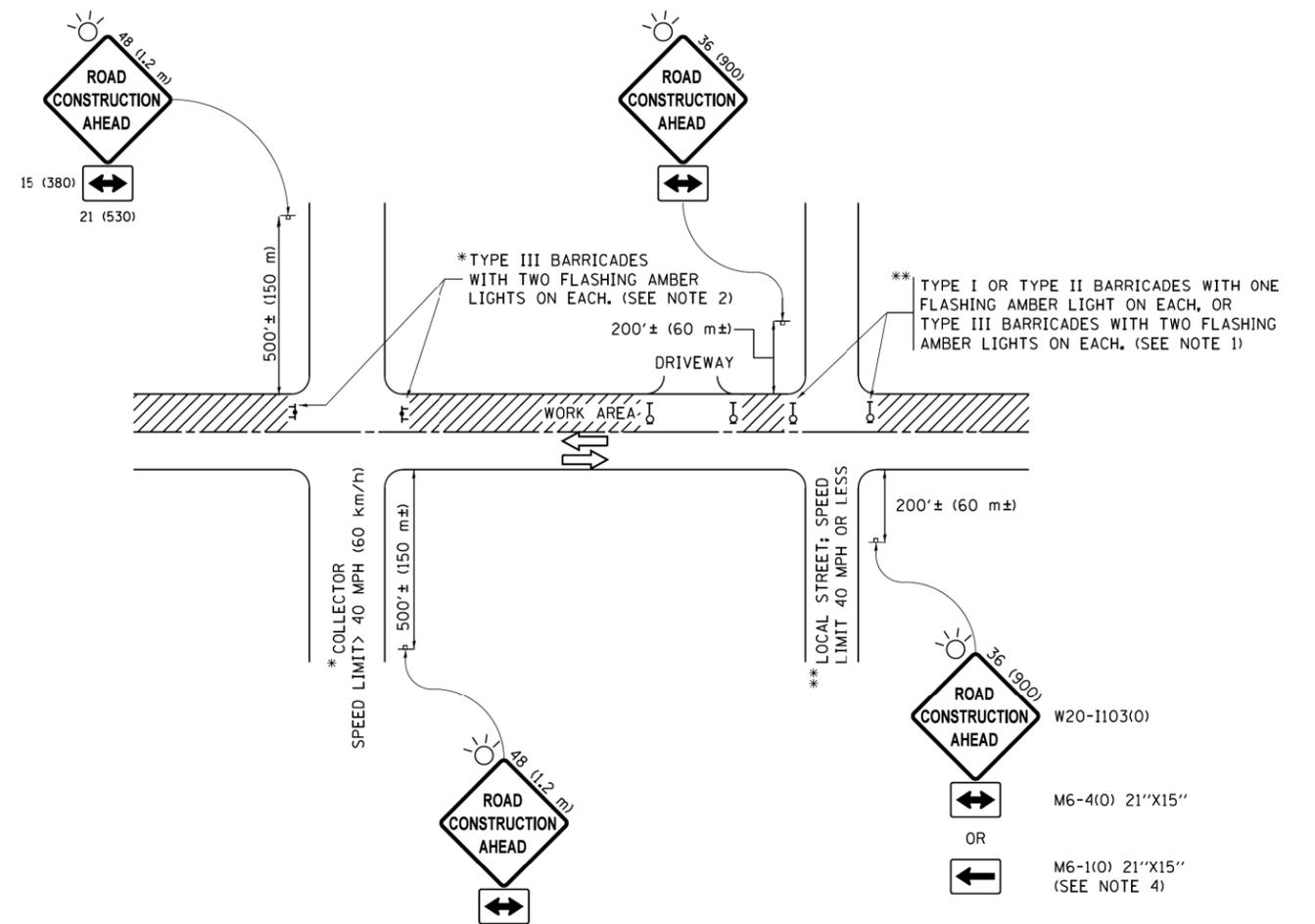
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = geglantobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	68
BD400-05 BD32			CONTRACT NO. 62H04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

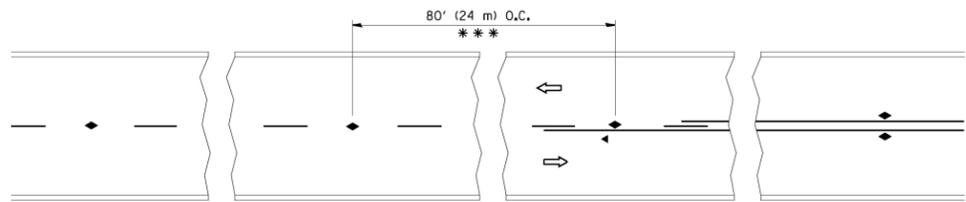
FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw\1\084E8IDINTEG\illinois.gov\PWICOT\Documents\DOT Offices\District 1\Projects\Dist1\CADData\CADsheets\tc10.dgn		DRAWN	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

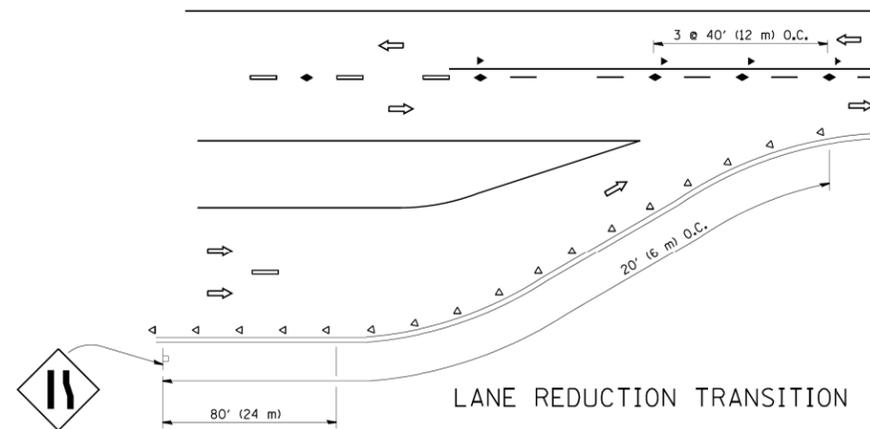
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	69
TC-10				CONTRACT NO. 62H04	
ILLINOIS FED. AID PROJECT					

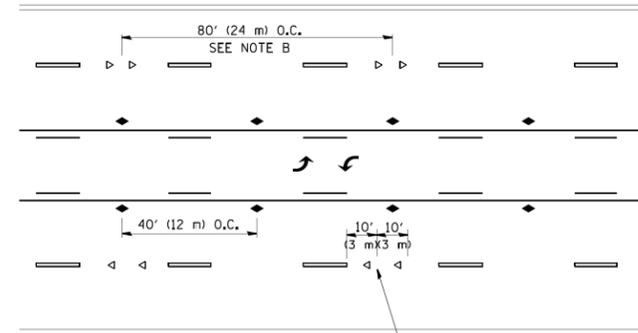


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

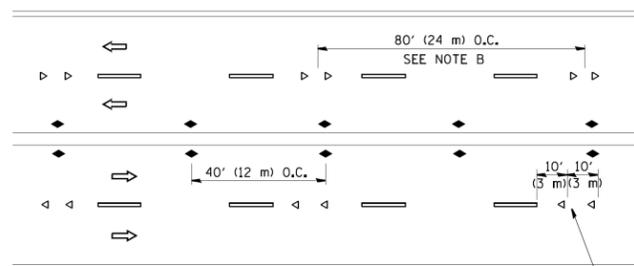
TWO-LANE/TWO-WAY



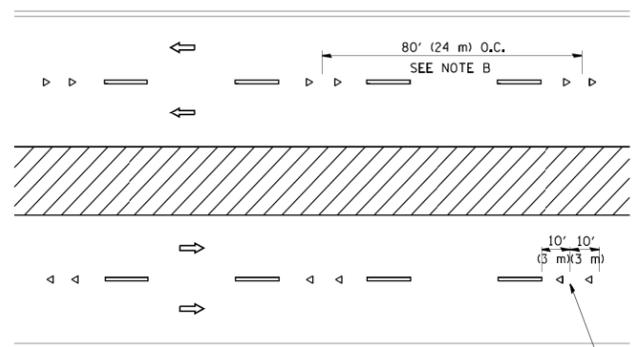
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

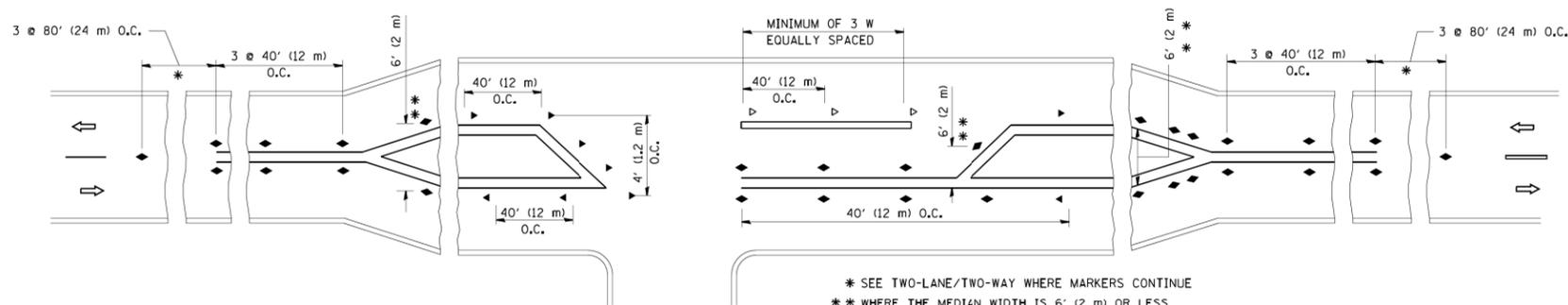
- YELLOW STRIPE
- ▬ WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

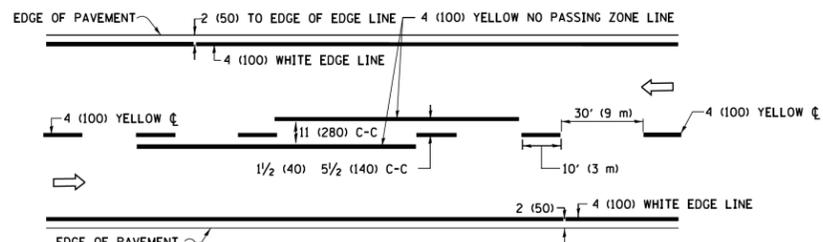
FILE NAME =	USER NAME = lrysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ca:\pwork\pwork\dot\lrysa\d0108315\te11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

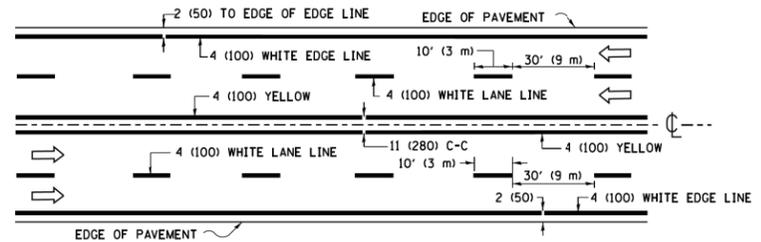
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

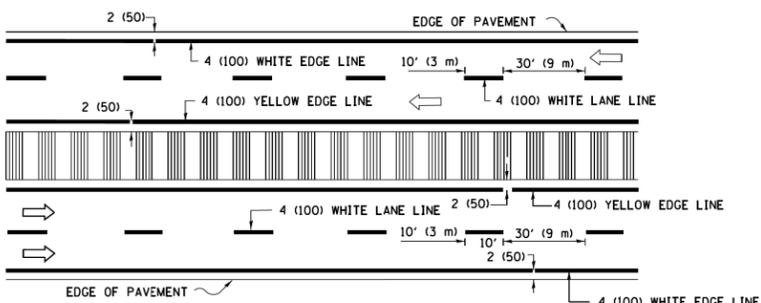
F.A.P. RTE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	550	2018-044-BD&BJR	DUPAGE	74	70
TC-11			CONTRACT NO. 62H04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



2-LANE ROADWAY

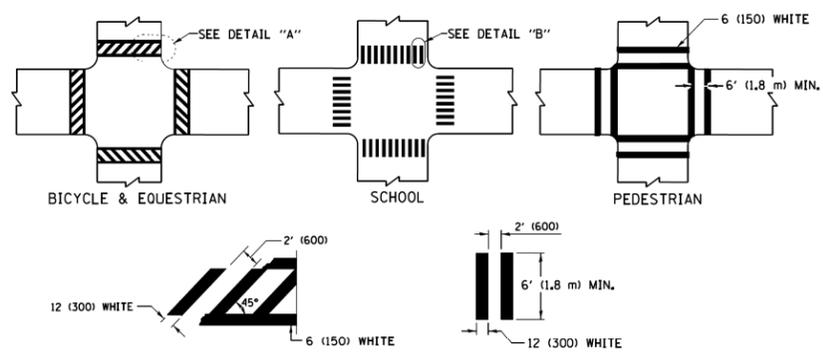


MULTI-LANE UNDIVIDED



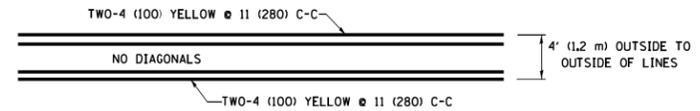
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

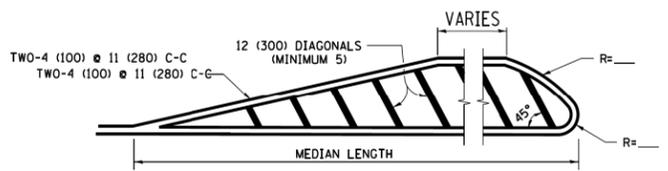


TYPICAL CROSSWALK MARKING

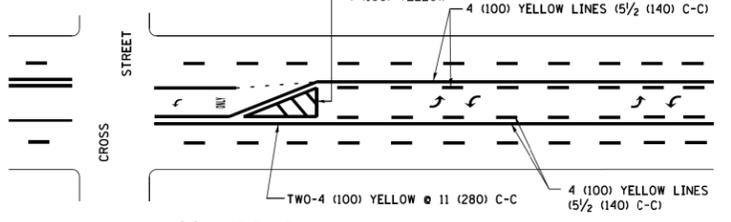
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



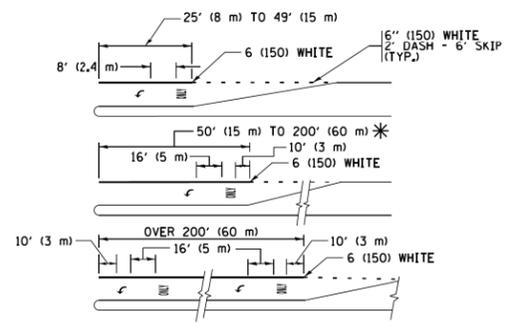
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

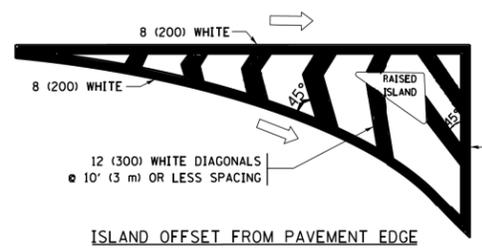


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

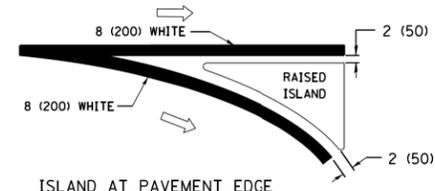


TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

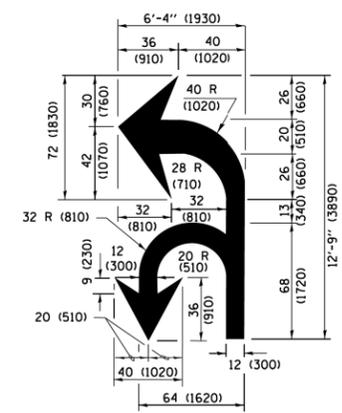
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



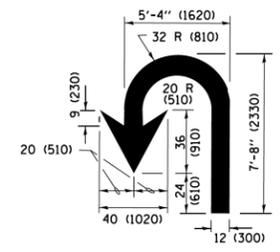
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
 * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS; 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" IS 6' (1.8 m) "X" IS 54.0 SQ. FT. (5.0 m ²) EACH
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

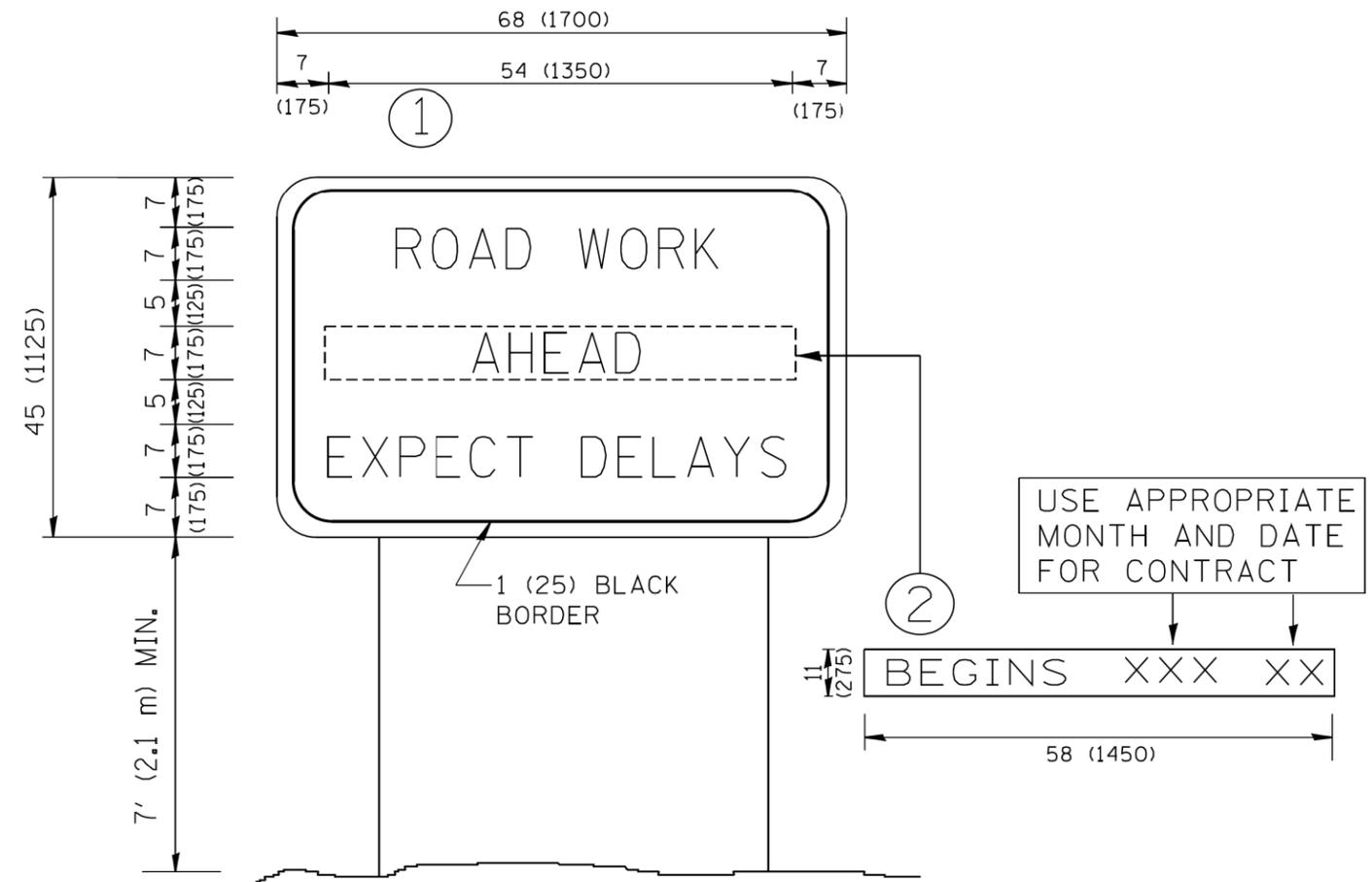
FILE NAME = W:\dststd\22x34\1013.dgn	USER NAME = 1eyaa	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
Default	PLOT SCALE = 50.000' / 1" =	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 6/23/2017	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
-------------	---------------------	--------------

F.A.P. RTE. 347	F.A.U. RTE. 550	SECTION 2018-044-BD&BJR	COUNTY DUPAGE	TOTAL SHEETS 74	SHEET NO. 73
TC-13			CONTRACT NO. 62H04		
ILLINOIS FED. AID PROJECT					



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = geglantobt	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 347	F.A.U. RTE. 550	SECTION 2018-044-BD&BJR	COUNTY DUPAGE	TOTAL SHEETS 74	SHEET NO. 74
TC-22			CONTRACT NO. 62H04		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					