03-08-2019 LETTING ITEM 010

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAP ROUTE 567: IL 38
OVER UPRR
BRIDGE REHABILITATION
SECTION 5VB-BR
PROJECT: STP 9TDR (419)
KANE COUNTY

C-91-278-16

DESIGN DESIGNATION IL 38: MINOR ARTERIAL

ADT (YEAR)

0

0

0

0

IL 38 8,850 (2016)

DESIGN SPEED (POSTED SPEED) IL 38 55 MPH (55 MPH)

IMPROVEMENT LOCATION
IL 38 OVER UPRR
STRUCTURE NO. 045-0009

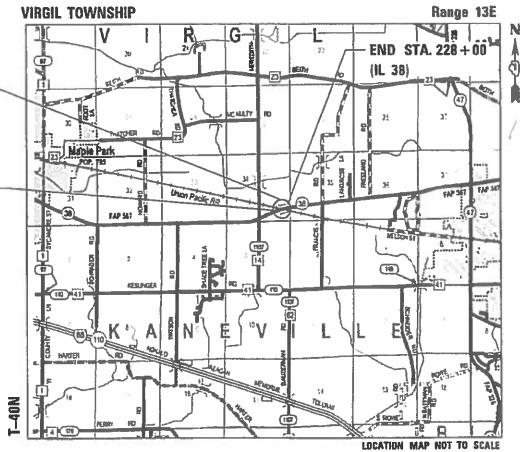
BEGIN STA. 220 + 00 (IL 38)

BEGIN STA. 220 + 00 (IL 38)

FULL SIZE PLANS NAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES MAY BE USED.

JULIA.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123
OR 811

PROJECT ENGINEER:
PROJECT MANAGER: MR. FAWAD AQUEEL, P.E. (847) 705–4247
CONTRACT NO. 62C14



GROSS LENGTH = 800 FT. = 0.15 MILE

NET LENGTH = 800 FT. = 0.15 MILE



COLLINS ENGINEERS. INC. JASON SCHNEIDER, P.E., S.E. NO. 081-007245 EXP.: 11/30/2020



COLLINS ENGINEERS, INC. ZACHART TANHER, P.E. NO. 062-068582 EXPIRES 11-10-2019





P-91-259-14 D-91-278-16



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MITTED DECEMBER 6 10 18

Outhan C. Quijky (188)

ENDINEER OF DESIGN AND ENDINOPHRISHT

DIRECTOR OF HUNNAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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#### **HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406-	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001 -03	NAME PLATE FOR BRIDGES
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
642006	SHOULDER RUMBLE STRIPS, 8 IN.
643001-02	SAND MODULE IMPACT ATTENUATORS
666001-01	RIGHT-OF-WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >=45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >=45 MPH
701311-0 <b>3</b>	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701316-12	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >= 45 MPH
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS

GUARDRAIL AND BARIER WALL REFLECTOR MOUNTING DETAILS

### **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 NOTICE IS REQUIRED).
- 2 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE RIGHT-OF-WAY OR PROPERTY WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND THE VILLAGE OF RICHTON PARK.
- 4 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTER AND MEDIAN ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED LARGER ITEM OF SPECIFIED WORK.
- 5 PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL. AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 6 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.
- FOR WORK OUTSIDE THE LIMITS OF THE STRUCTURE, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- 8 THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.
- 9 THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR, AT 847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 10 THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OWN EXPENSE

  CONTRACTOR'S OWN EXPENSE
- 11 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER. WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM ALL THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE, INCLUDING PAVEMENT. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. COORDINATION WITH ALL AGENCIES INVOLVED IS REOUIRED.
- DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 14 DRAINAGE AND UTILITY ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER
- 15 THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, DON CHIARUGI, AT donchiarugi@illinois.gov A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT MARKINGS.
- 16 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 17 THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- 18 DO NOT SCALE PLANS FOR CONSTRUCTION PURPOSES
- 19 DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)".
- ONE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED AT EACH END OF THE PROJECT. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER BEFORE PLACEMENT OF THE CHANGEABLE MESSAGE SIGNS.

# **GENERAL NOTES (CONT.):**

- THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS WHICH MAY BE NECESSARY TO PROTECT THE PROPERTY OF THE VARIOUS PUBLIC UTILITIES WHICH MAY BE LOCATED UNDERGROUND OR ABOVE GROUND, AT OR ADIACENT TO THE SITE OF THIS IMPROVEMENT. HE WILL BE REQUIRED TO REPAIR OR REPLACE AT HIS OWN EXPENSE, OR BEAR THE COST, TO REPAIR OR REPLACE, ANY PUBLIC UTILITY PROPERTY WHICH HAS BEEN DAMAGED THROUGH HIS EFFORTS.
- OVERHEAD WIRES ARE NOT INSULATED AND EXTRA CAUTION AND VIGILANCE SHALL BE ADHERED TO WHEN WORKING NEARBY. CONTRACTORS SHALL ALWAYS USE CAUTION WHILE OPERATING CRANES AND OR OTHER EQUIPMENT NEAR OVERHEAD ELECTRICAL FACILITIES. THE OCCUPATIONAL HEALTH AND SAFETY ORGANIZATION (OSHA) RULES REQUIRE THAT WORKERS AND EQUIPMENT SHALL NOT APPROACH WITHIN TEN (10) FEET AWAY OF OVERHEAD ELECTRICAL EQUIPMENT WITHOUT APPROPRIATE SUPPLEMENTAL PROTECTION. BE CERTAIN THAT ALL WORKERS ON THIS PROJECT HAVE BEEN FULLY TRAINED AND CONFORM TO OSHA RULES AND OTHER APPLICABLE GUIDELINES REGARDING WORKING SAFELY AROUND ELECTRICAL POWER LINES.
- BEFORE ORDERING FLOOR DRAINS AN SCUPPERS, THE CONTRACTOR SHALL REVIEW THE EXISTING FIELD CONDITIONS AND THE DRAINAGE SCHEDULES FOUND IN THE PLANS FOR THE LENGTH AND QUANTITY REQUIRED.

#### UNION PACIFIC RAILROAD GENERAL NOTES:

- 1 WITHIN THESE NOTES, THE UNION PACIFIC RAILROAD SHALL BE REFERRED TO AS THE "RAILROAD"
- A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 3 NO DISRUPTIONS OF RAILROAD OPERATIONS WILL BE PERMITTED.
- ALL WORK WITHIN 25 FEET OF THE NEAREST TRACK WILL REQUIRE A RAILROAD FLAGMAN. TO SCHEDULE A FLAGMAN FOR WORK ON A COMMUTER LINE, CALL CANDICE MILLER AT (312) 496-4738, A MINIMUM 72 HOURS IN ADVANCE OF START OF WORK. TO SCHEDULE A FLAGMAN FOR WORK ON FREIGHT LINES, CALL DARYL CLARK AT (708) 649-5273, A MINIMUM OF 72 HOURS IN ADVANCE OF START OF WORK.
- 5 RAILROAD UTILITIES ARE NOT INCLUDED UNDER JULIE. CALL UPRR "CALL BEFORE YOU DIG" (CBYD)
  AT (800) 336-9193 AND CANDICE MILLER AT (312) 496-4738 FOR LOCATES.
- FIBER OPTICS MAY BE PRESENT IN THIS AREA. CALL (800) 336-9193 TO COORDINATE ANY REQUIRED PROTECTION OR RELOCATION, PRIOR TO CONSTRUCTION.
- 7 RAILROAD REVIEW AND APPROVAL OF SHORING, DEMOLITION, ERECTION, AND FALSEWORK IS REQUIRED.
- ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTIONS TO RAILROAD'S OPERATIONS. ERECTION OVER THE RAILROAD'S TRACK SHALL BE DEVELOPED SUCH THAT IT ENABLES THE TRACKS(S) TO REMAIN OPEN TO TRAIN TRAFFIC PER RAILROAD'S REQUIREMENTS
- 9 MINIMUM CONSTRUCTION CLEARANCE ENVELOPE OF 21 FEET VERTICAL ABOVE THE PLANE OF TOP-OF-RAIL AND 12 FEET HORIZONTAL AT RIGHT ANGLE FROM CENTERLINE OF TRACK SHALL BE MAINTAINED AT ALL TIME DURING CONSTRUCTION.
- 10 FALSEWORK CLEARANCE SHALL COMPLY WITH THE RAILROAD'S MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.
- 11 FOR RAILROAD COORDINATION PLEASE REFER TO THE RAILROAD MINIMUM REQUIREMENTS AS PART OF SPECIAL PROVISIONS.
- 2 THE PROPOSED OVERPASS PROJECT SHALL NOT CHANGE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD DITCHES AND/OR DRAINAGE STRUCTURES.
- 3 UNLESS OTHERWISE NOTED IN THE PLANS OR CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL SURVEY THE TOP OF RAIL OF EACH RAILROAD TRACK A MINIMUM OF 1000-FT NORTH AND SOUTH OF THE IL-38 CENTERLINE IN 50' INCREMENTS BEFORE BEGINNING CONSTRUCTION, AND COMPARE IT TO THE ALIGNMENT AND THE TOP OF RAIL PROFILES. ALL DISCREPANCIES BETWEEN SURVEY AND PLANS SHALL BE NOTED AND BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE RAILROAD PRIOR TO CONSTRUCTION. IN ADDITION, UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL MEASURE THE RESULTING HORIZONTAL AND VERTICAL CLEARANCES AND SUBMIT THEM TO THE ENGINEER FOR REVIEW AND INCLUSION IN THE RECORD DRAWINGS. THIS WORK SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT.
- THE CONTRACTOR SHALL SUBMIT A PROPOSED METHOD OF EROSION AND SEDIMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
- NO DRAINAGE SHALL BE DISCHARGED ONTO THE RAILROAD'S RIGHT-OF-WAY.
- ALL SHORING SYSTEMS THAT IMPACT THE RAILROAD'S OPERATIONS AND/OR SUPPORTS THE RAILROAD'S EMBANKMENT SHALL BE DESIGNED AND CONSTRUCTED PER THE CURRENT RAILROAD GUIDELINES FOR TEMPORARY SHORING.
- 17 ALL DEMOLITIONS WITHIN THE RAILROAD'S RIGHT-OF-WAY AND/OR DEMOLITION THAT MAY IMPACT THE RAILROAD'S TRACKS OR OPERATIONS SHALL BE IN COMPLIANCE WITH THE RAILROAD'S DEMOLITION GUIDELINES.
- 18 RAILROAD REQUIREMENTS DO NOT ALLOW WORK WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AN SECURE ALL EQUIPMENT.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	IL 38	OVER UN	ION PACI	FIC	RAILROAD	
INDEX OF	SHEETS,	GENERAL	NOTES, A	ND	HIGHWAY STANDARDS	
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	ILLINOIS	FED. A	ID PROJECT		
			CONTRACT	T NO. (	62C1
567	5VB-BR		KANE	73	2
F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.

			3	CONSTRUC	TION CODE
				80% FE	
<u> </u>				20% STATE	
				BRIDGE	
CODE			TOTAL	0013	93
NO.	ITEM	UNIT	QUANTITY	RURAL	2)
20200100	EARTH EXCAVATION	CU YD	150	150	3.
20700220	POROUS GRANULAR EMBANKMENT	CU YD	257	257	15 6
25000300	SEEDING, CLASS 3	ACRE	0.25	0.25	
					<u>4</u>
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	307	307	-
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	163	163	0
e.					
28000305	TEMPORARY DITCH CHECKS	FOOT	100	100	-
					0
28000400	PERIMETER EROSION BARRIER	FOOT	759	759	2-
28000510	INLET FILTERS	EACH	2	2	
					÷
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	307	307	4:
			7		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	394	394	
-				A	<del>2</del> -
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	535	535	1° .
-					<u> </u>
40600982	HOT-MIXASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	34	34	<del>(</del>
					45
40603340	HOT-MIXASPHALT SURFACE COURSE, MIX "D", N70	TON	56	56	V.
To-					
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	352	352	4)
G.					a o

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COLLINS 123 North Wacker Drive Suite 900 ENGINEERS 2 (312) 704-9300 ENGINEERS 2 (312) 704-9300	USER NAME = aseiber	DESIGNED - ZJT	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

IL 38 OVER UNION PACIFIC RAILROAD SUMMARY OF QUANTITIES

SHEET 1 OF 7 SHEETS STA. TO STA.

				CONSTRUC 80% FEDERAL 20% STATE	TION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 RURAL	
42001300	PROTECTIVE COAT	SQ YD	51	51	
44000100	PAVEMENT REMOVAL	SQ YD	336	336	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	638	638	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	275	275	
44004250	PAVED SHOULDER REMOVAL	SQYD	246	246	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	214	214	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	83	83	
50102400	CONCRETE REMOVAL	CU YD	15.3	15.3	
50104650	SLOPE WALL REMOVAL	SQYD	463	463	
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1	1	
50157300	PROTECTIVE SHIELD	SQ YD	474	474	
50300100	FLOOR DRAINS	EACH	4	4	
50300225	CONCRETE STRUCTURES	CU YD	20.9	20.9	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	502.2	502.2	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

IL 38 OVER UNION PACIFIC RAILROAD SUMMARY OF QUANTITIES

SHEET 2 OF 7 SHEETS STA. TO STA.

				CONSTRUC 80% FEDERAL 20% STATE	TION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0006 RURAL	
50300300	PROTECTIVE COAT	SQ YD	2254	2254	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	95.9	95.9	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	87120	87120	
50500505	STUD SHEAR CONNECTORS	EACH	5814	5814	
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	173980	173980	
50800515	BAR SPLICERS	EACH	1685	1685	
51100100	SLOPE WALL 4 INCH	SQ YD	513	513	
51500100	NAME PLATES	EACH	1	1	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	6	6	
52100520	ANCHOR BOLTS, 1"	EACH	26	26	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	150	150	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	217	217	
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	400	400	

# \*= SPECIALTY ITEM

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 RURAL	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	474	474	
·					
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	285	285	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	270	270	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	3775	3775	
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	48	48	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	800	800	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	800	800	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
			<u>-</u>	-	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1623	1623	
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2087	2087	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
			,_		

<sup>\*=</sup> SPECIALTY ITEM

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			ľ		ROADWAY	21
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-	NO.	11 E141	UNII	QUANTITY	RUKAL	,
* 78100	0300	REPLACEMENT REFLECTOR	EACH	20	20	
* 78200	0005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4	
* 78200	10011	BARRIER WALL REFLECTORS, TYPE C	EACH	128	128	
* 70200	10011	BARRIER WALL REFLECTORS, TIPE C	EACH	120	120	3
7830	0200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	
						-
89000	0050	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
X0325	:5201	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	73	73	
:						
X0326	:6276	TEMPORARY LIGHTING FOR SINGLE LANE STAGING	LSUM	1	1	
X0326		CENTER LINE - RUMBLE STRIP - 16"	FOOT	278	278	
X032	7979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1056	1056	
X032	7980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	168	168	
X0900	0052	PREFORMED JOINT SEAL 1 1/2"	FOOT	280	280	
7.000		THE STANDS SOUND SELVE THE	1001	200		
X0900	00063	PREFORMED JOINT SEAL 3"	FOOT	93.5	93.5	
VESS	.0050	PRIDGE DEGIT OFFICIALLY	00.45	4007	1267	
X5030	0250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1367	1367	
X7010	0216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	

\*= SPECIALTY ITEM

		USER NAME = aseiber	DESIGNED - ZJT	REVISED -
	COLLINS 123 North Wacker Drive Suite 900 Chicago, Il. 60606		DRAWN - ZJT	REVISED -
	ENGINEERS www.collinsengr.com	PLOT SCALE = 100.0000 '/ in.	CHECKED - CEI	REVISED -
-		PLOT DATE = 12/6/2018	DATE -	REVISED -

SCALE:

	IL 38 OVER UNION PACIFIC RAILROAD							F.A.P. RTE.	SECTION 5VB-BR			TOTAL SHEETS	SHEET NO.		
SUMMARY OF QUANTITIES					L	567	2AR-RK		KANE	73	. / .				
_	SUMMANT OF QUANTITIES									CONTRACT	NO. (	52C14			
ĵ	SHEET	5	OF	7	SHEETS	STA.	T0	STA.	Ĭ.	ILLINOIS FED. AID PROJECT					
_													חרי	1 1 11	0/40

CONSTRUCTION CODE

				CONSTRUC 80% FEDERAL 20% STATE	TION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 RURAL	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1355	1355	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	336	336	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	6	6	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	87200	87200	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	143	143	
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	1	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2779	2779	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0018010	DRAINAGE SCUPPERS, DS-33	EACH	6	6	
Z0018800	DRAINAGE SYSTEM	L SUM	1	1	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1606	1606	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2	

= 14/18383 PTB 182 84/18383.18 - IL 38 over UPRR\CADD\CADD.Shaeta\

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

IL 38 OVER UNION PACIFIC RAILROAD SUMMARY OF QUANTITIES

SHEET 6 OF 7 SHEETS STA. TO STA.

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				CONSTRUC 80% FEDERAL 20% STATE ROADWAY	TION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0006	
Z0076600	TRAINEES	HOUR	500	500	
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
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ш	ENGINEERS 2 (312) 70-9300 www.collinsengr.com	PLOT	SCALE	=	100.0000 '
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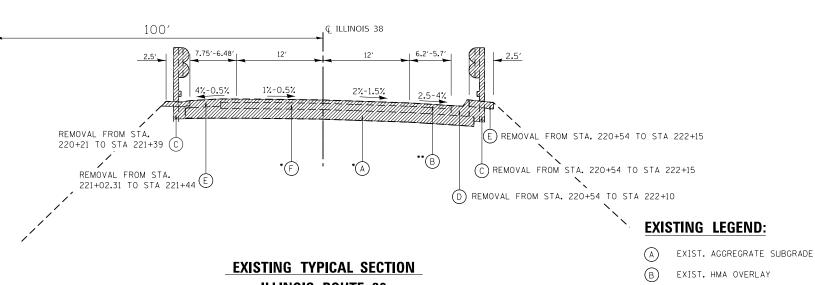
IL 38 OVER UNION PACIFIC RAILROAD								
	SU	MM	ARY	OF QU	ANTI	TIES		
SHEET	7	OF	7	SHEETS	STA.		TO	STA.

#### **HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS	QMP
RESURFACING:		
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm)	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT SHOULDERS, 8":		
HMA BINDER COURSE, IL-19.0, N70, 8"	4% @ 70 GYR.	QC/QA
PAVEMENT CONNECTOR:		
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm)	4% @ 70 GYR.	QC/QA
HMA BINDER COURSE, IL-19.0, N70 (2 1/4" MIN.)	4% @ 70 GYR.	QC/QA

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

- 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN
- 2) THE AC TYPE FOR POLYMERIZED HMA MIXES 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"
- 3) FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS.
- 4) QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



# **ILLINOIS ROUTE 38**

STA. 220+00 to STA. 221+61.72 PAVEMENT REMOVAL & REMOVAL OF AGGREGATE SUBGRADE OCCURS FROM STA. 221+02.31 TO STA. 221+61.72.

\*\* HOT-MIX ASPHALT SURFACE REMOVAL, 1.75" OCCURS FROM STA. 220+00.00 TO STA. 221+02.31.



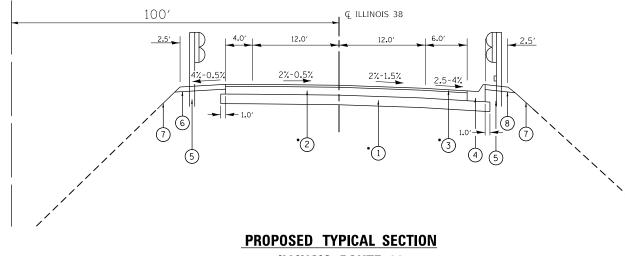
TO BE REMOVED

EXIST. PAVED SHOULDER

EXIST. PCC PAVEMENT

EXIST. 6.18 CURB AND GUTTER

EXIST GUARDRAIL



SCALE:

# **ILLINOIS ROUTE 38**

STA. 220+00 to STA. 221+47.72

PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12 INCH AND PROPOSED PAVEMENT CONNECTOR (HMA) SHALL ONLY OCCUR FROM STA. 221+02.31 TO STA. 221+47.72.

# **PROPOSED LEGEND:**

- 1) PROP. AGG SUBGRADE IMP 12
- (2) PROP. HMA BINDER COURSE (2 1/4" MIN.)
- (3) PROP. HMA SURFACE COURSE, 1 1/2"
- (4) PROP. 6.18 CURB AND GUTTER
- 5 PROP. GUARDRAIL
- 6 PROP. AGGREGATE SHLDS B 6
- 7 PROP. HD EROS CONTR BLANKET PROP. SEEDING, CL 3
- (8) PROP. HMA ASPHALT SHOULDERS, 8"

DESIGNED - ZJT REVISED COLLINS 123 North Wacker Suite 900 Chicago, II. 60606 Chicago, II. 6104-9300 DRAWN - ZJT REVISED CHECKED - CEI REVISED ENGINEERS 2 (312) 704-5 PLOT DATE = 12/6/2018 REVISED

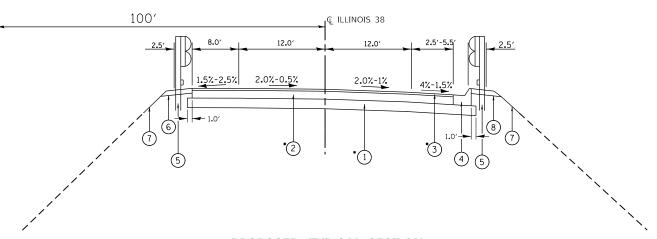
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  IL 38 OVER UNION PACIFIC RAILROAD **TYPICAL SECTIONS** SHEETS STA. TO STA.

SECTION COUNTY 567 5VB-BR KANE 73 10 CONTRACT NO. 62C14

# **EXISTING TYPICAL SECTION ILLINOIS ROUTE 38**

STA. 226+81 to STA. 228+00

- \* PAVEMENT REMOVAL & REMOVAL OF AGGREGATE SUBGRADE OCCURS FROM STA. 226+58.33 TO STA. 227+23.61.
- \*\* HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" OCCURS FROM STA. 227+23.61 TO STA. 228+00.



# PROPOSED TYPICAL SECTION **ILLINOIS ROUTE 38**

STA. 226+69.12 to STA. 228+00

 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12 INCH AND PROPOSED PAVEMENT CONNECTOR (HMA) SHALL ONLY OCCUR FROM STA. 226+69.12 TO STA. 227+23.61.

# **EXISTING LEGEND:**

- EXIST. AGGREGRATE SUBGRADE
- EXIST. HMA OVERLAY
- (C) EXIST GUARDRAIL
- EXIST. 6.18 CURB AND GUTTER
- EXIST. PAVED SHOULDER
- EXIST. PCC PAVEMENT



TO BE REMOVED

#### PROPOSED LEGEND:

- 1 PROP. AGG SUBGRADE IMP 12
- 2) PROP. HMA BINDER COURSE (2 1/4" MIN.)
- 3 PROP. HMA SURFACE COURSE, 1 1/2"
- (4) PROP. 6.18 CURB AND GUTTER
- 5 PROP. GUARDRAIL
- 6 PROP. AGGREGATE SHLDS B 6
- 7 PROP. HD EROS CONTR BLANKET PROP. SEEDING, CL 3
- 8 PROP. HMA ASPHALT SHOULDERS, 8"

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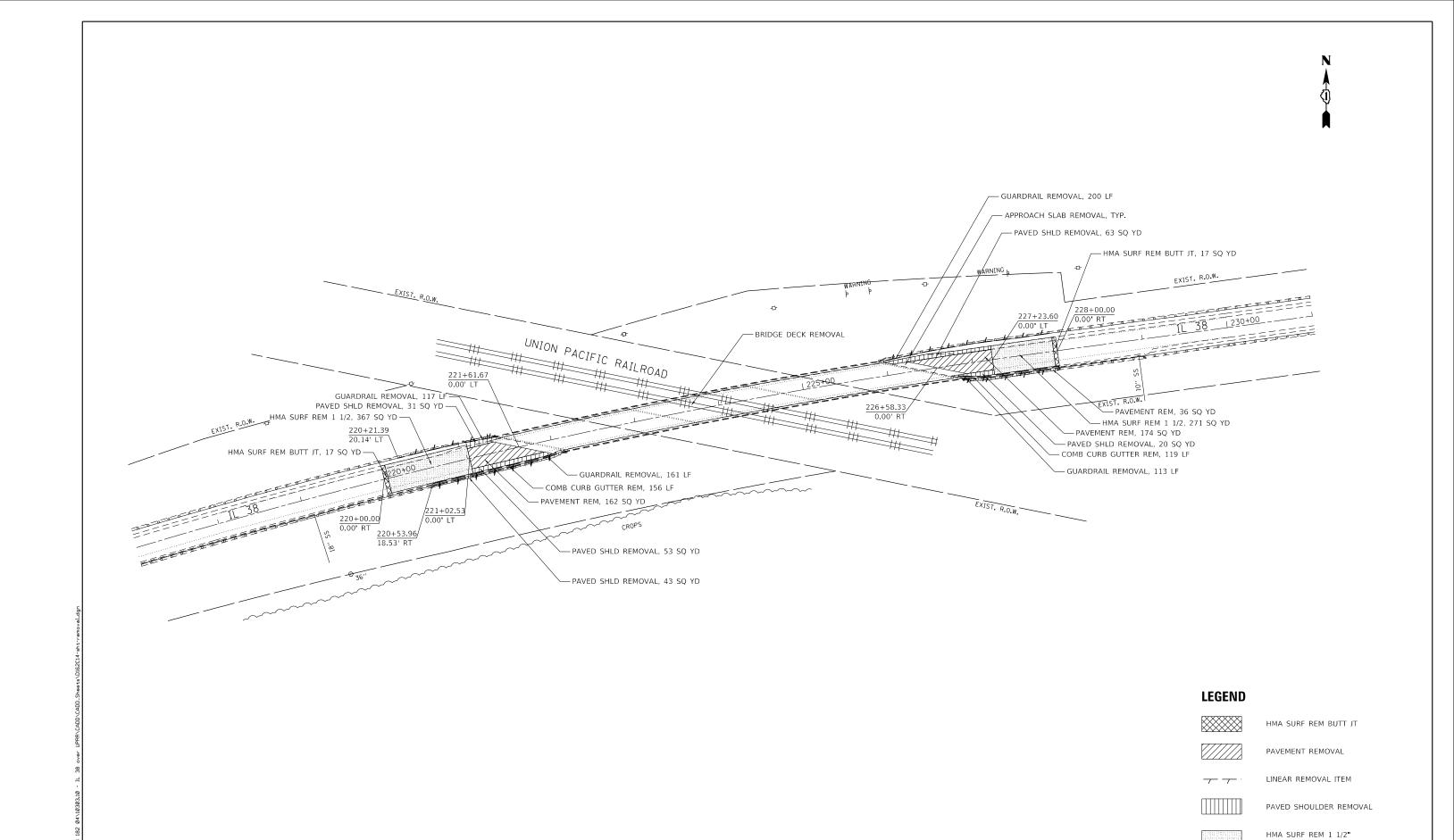
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STATE OF ILLINOIS

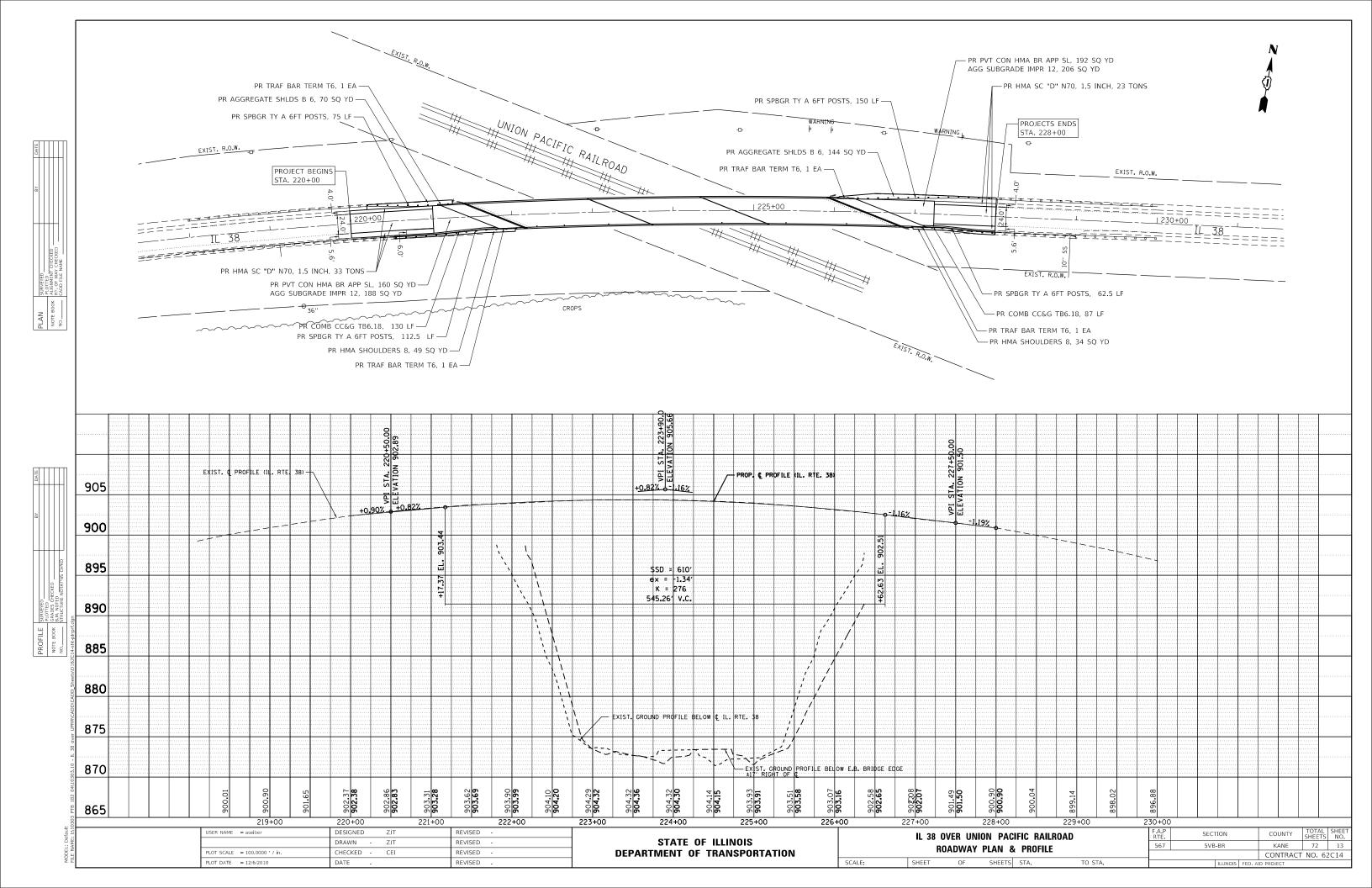
IL 38 OVER UNION PACIFIC RAILROAD									
TYPICAL SECTIONS									

COUNTY TOTAL SHEETS NO. KANE 73 11 SECTION COUNTY 567 5VB-BR CONTRACT NO. 62C14

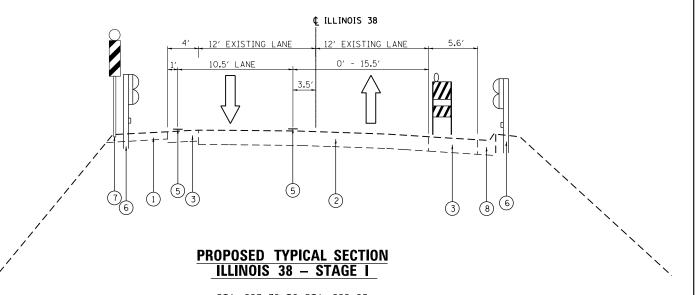
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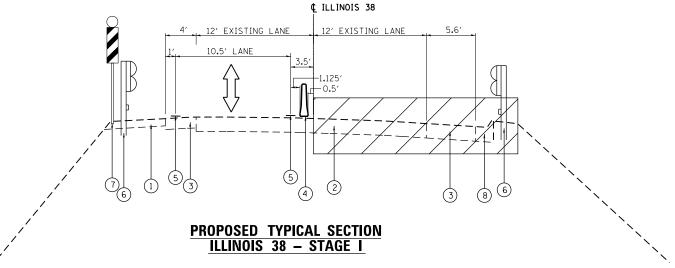
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STA. 218+60 TO STA. 220+52
DRUMS FROM STA. 216+50 - 229+23
CONCRETE BARRIER FROM STA. 220+15 - STA. 228+15



STA. 227+78 TO STA. 229+23
DRUMS FROM STA. 216+50 - 229+23
CONCRETE BARRIER FROM STA. 220+15 - STA. 228+15



STA. 220+52 TO STA. 227+78

CONCRETE BARRIER FROM STA. 220+15 - STA. 228+15

SEE STRUCTURAL SHEETS FOR STAGING BETWEEN STA. 221+47 - STA. 226+69

# PROPOSED LEGEND:

- 1) EXIST. AGGREGATE SHOULDER
- 2 EXIST. HMA PAVEMENT
- 3) EXIST. PAVED SHOULDER
- 4 TEMPORARY CONCRETE BARRIER
- (5) PAVEMENT MARKING TAPE, TYPE IV 4" WHITE
- 6 EXIST. GUARDRAIL
- 7 DOUBLE VERTICAL PANEL
- 8 EXIST. 6.18 CURB AND GUTTER



WORK ZONE

COUNTY TOTAL SHEET NO.

KANE 73 14

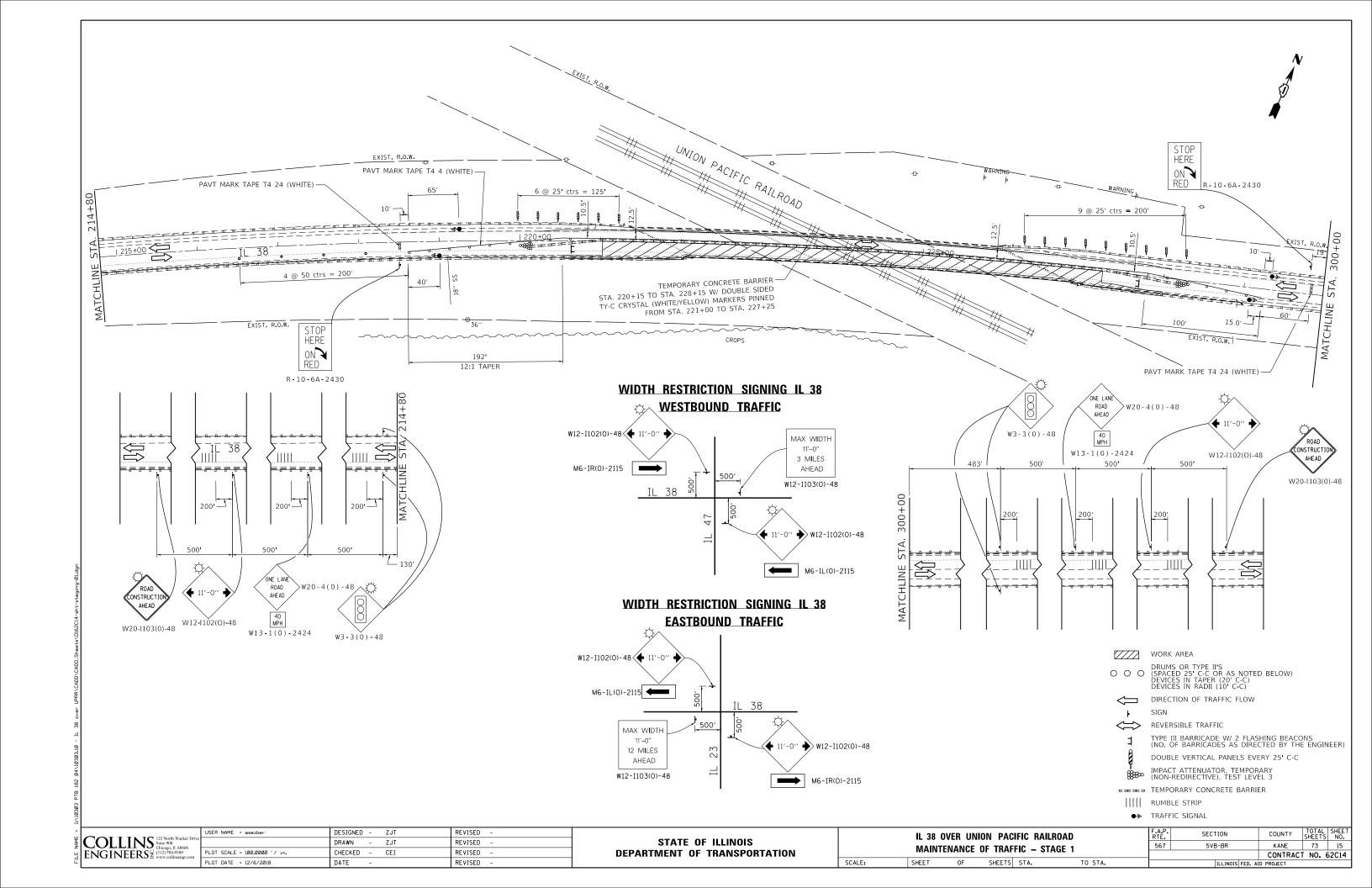
CONTRACT NO. 62C14

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	COLLINS 123 North Wacker Drive Suite 900 Chicago, II. 60606	
	ENGINEERS (312) 704-9300	PI
:	21 (311 (221 31 www.commsengr.com	PL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 38 OVER UNION PACIFIC RAILROAD	F.A.P. RTE.	SECTION
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS – STAGE I	567	5VB-BR
SCALE: SHEET OF SHEETS STA. TO STA.		ILL INOIS F



STA. 219+10 TO STA. 220+52
DRUMS FROM STA. 219+10 - 231+73
CONCRETE BARRIER FROM STA. 220+15 - STA. 228+15

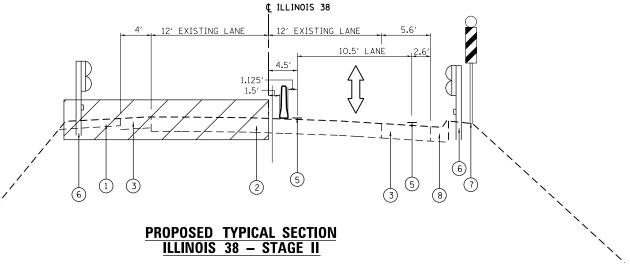
PROPOSED TYPICAL SECTION
ILLINOIS 38

PROPOSED TYPICAL SECTION
ILLINOIS 38 - STAGE II

STA. 227+80 TO STA. 229+73

DRUMS FROM STA. 219+10 - 231+73

CONCRETE BARRIER FROM STA. 220+15 - STA. 228+15



STA. 220+52 TO STA. 227+80 CONCRETE BARRIER FROM STA. 220+15 - STA. 228+15 SEE STRUCTURAL SHEETS FOR STAGING BETWEEN STA. 221+47 - STA. 226+69

# PROPOSED LEGEND:

- 1) EXIST. AGGREGATE SHOULDER
- 2 EXIST. HMA PAVEMENT
- 3) EXIST. PAVED SHOULDER
- 4 TEMPORARY CONCRETE BARRIER
- (5) PAVEMENT MARKING TAPE, TYPE IV 4" WHITE
- 6 EXIST. GUARDRAIL
- 7 DOUBLE VERTICAL PANEL
- (8) EXIST. 6.18 CURB AND GUTTER



WORK ZONE

COUNTY TOTAL SHEETS NO.

KANE 73 16

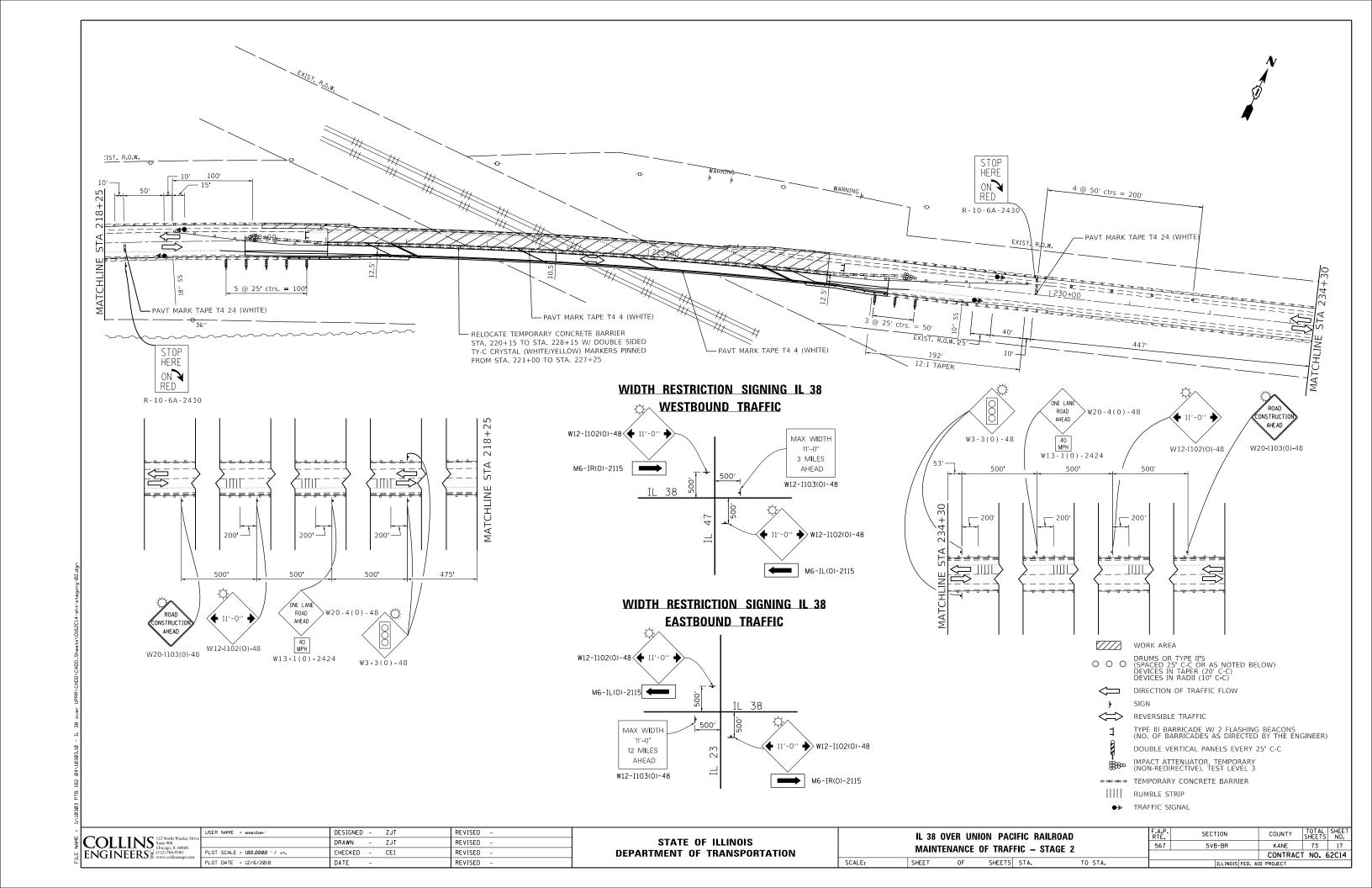
CONTRACT NO. 62C14

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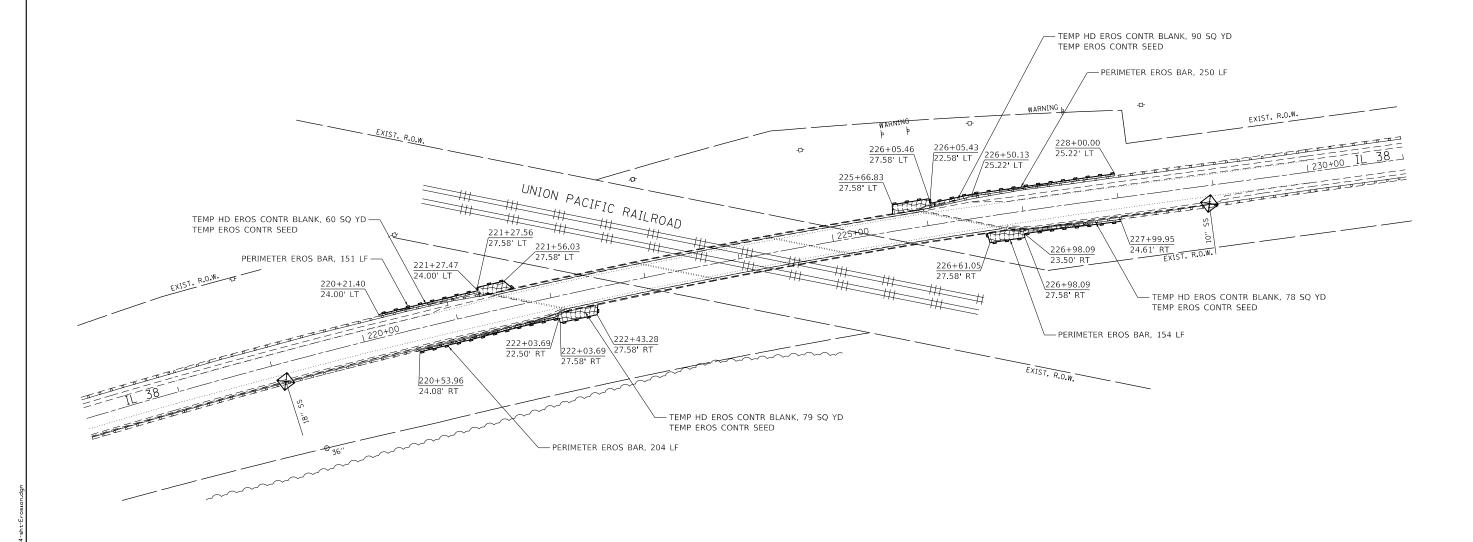
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 38 OVER UNION PACIFIC RAILROAD							SECTION
MAIN	TENANCE (	F TRAFF	IC TYPIC	AL SECTIO	ONS – STAGE II	567	5VB-BR
SCALE:	SHEET	0F	SHEETS		TO STA.		ILLINOIS FED.







# **LEGEND**

TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET TEMPORARY EROSION CONTROL SEEDING

 $\triangle$ 

PERIMETER EROSION BARRIER



INLET FILTERS

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NAME	COLLINS 123 North Wacker Drive Suite 900 Chicago, II, 60606	
щ	ENGINEERS 2 (312) 704-9300 www.collinsengr.com	PL
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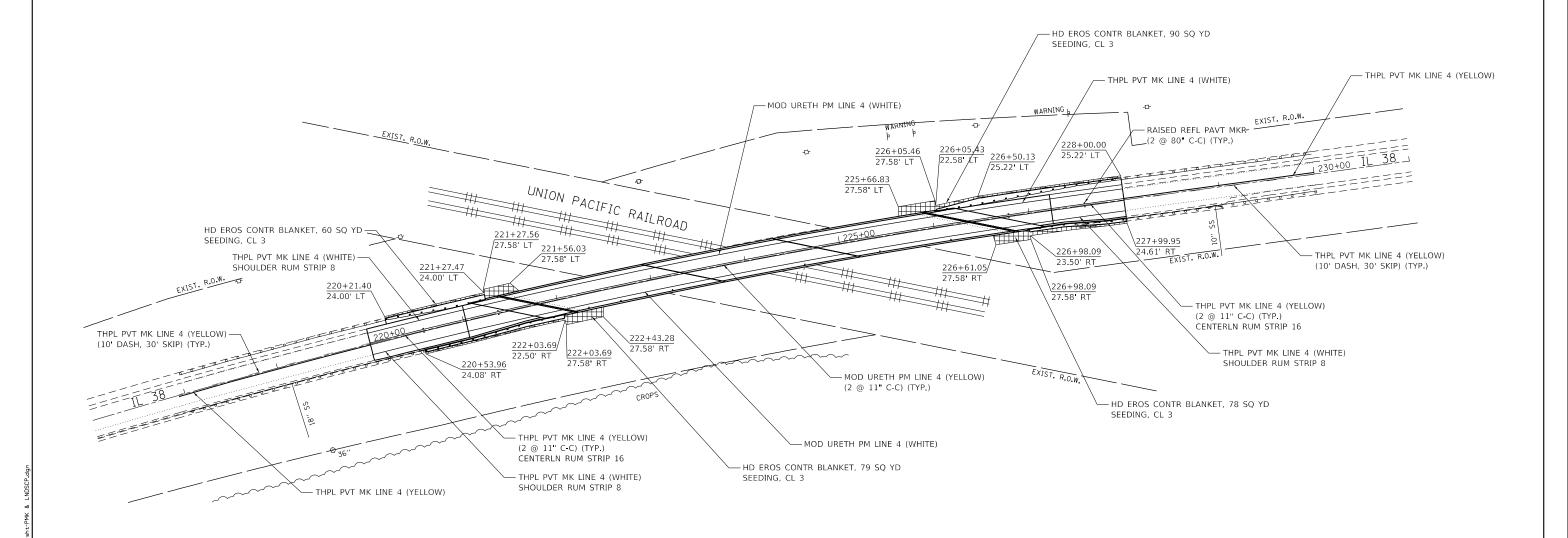
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RTE.	SECTION		COUNTY	SHEETS	NO.		
567	5VB-BR	KANE	73	18			
CONTRACT NO. 62C14							
	ILLINOIS F	ED. AI	D PROJECT				





#### NOTES:

- REFER TO DISTRICT ONE DETAILS TC-11 AND TC-13 FOR ADDITIONAL INFORMATION.
- 2. ALL PAVEMENT MARKINGS ON CONCRETE SURFACE SHALL BE MODIFIED URETHANE.

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3. ALL PAVEMENT MARKINGS ON HMA SURFACE SHALL BE THERMOPLASTIC.

#### **LEGEND**

HEAVY DUTY EROSION CONTROL BLANKET
SEEDING, CLASS 3

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 38 OVER UNION PACIFIC RAILROAD

PAVEMENT MARKING & LANDSCAPING PLAN

SHEET OF SHEETS STA. TO STA.

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# TRAFFIC SIGNAL LEGEND

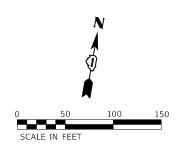
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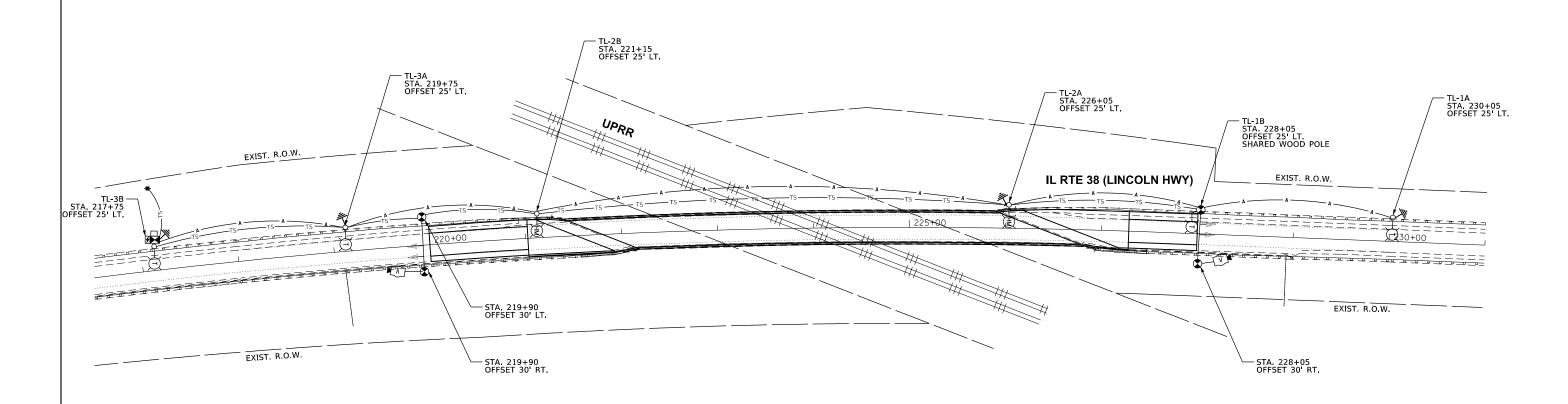
				(NUT TO SCALE)				
<u>ITEM</u>	EXISTING	PROPOSED	<u>ITEM</u>	EXISTING	PROPOSED	ITEM	EXISTING	<u>PROPOSED</u>
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R R	RRYY
COMMUNICATION CABINET	ECC	СС	-ROUND HEAVY DUTY HANDHOLE					Y Y G G G G G G G G G G G G G G G G G G
MASTER CONTROLLER	EMC	MC	-SQUARE -ROUND	H W	⊞ 18			<b>4</b> G <b>4</b> G P
MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE	6 6 6 6	R R R
UNINTERRUPTABLE POWER SUPPLY	<b>3</b>	<b>3</b>	JUNCTION BOX		•	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(P) POLE MOUNTED	-D-P	<b>-</b> ■-	RAILROAD CANTILEVER MAST ARM	$X \longrightarrow X$	X <del>eX X</del>			<del>                                    </del>
SERVICE INSTALLATION			RAILROAD FLASHING SIGNAL	<del>∑⊙</del> ∑	X⊕X		P RB	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	<b>⊠</b> <sup>G</sup> <b>⊠</b> <sup>GM</sup>	RAILROAD CROSSING GATE	<del>₹0</del> ₹>	X• <del>I-</del>	PEDESTRIAN SIGNAL HEAD		<b>[</b>
TELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK	举	*	AT RAILROAD INTERSECTIONS	<b>()</b>	<b>₽</b> <b>⊼</b>
STEEL MAST ARM ASSEMBLY AND POLE	0——	•	RAILROAD CONTROLLER CABINET		<b>≯</b> ∢	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	(F) C	<u>♥</u> C <u>⊀</u> D
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			WITH COUNTDOWN TIMER		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o <del>.</del> ¤—	• <del>×</del>	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	<ul> <li>● BM</li> </ul>	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
			INTERSECTION ITEM	I	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	$\sim$	$\circ$
WOOD POLE	⊗ .	•	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	<del></del>	<del>- 1*6</del> -
GUY WIRE	>-	>	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD	$\rightarrow$	<b>→</b>	ABANDON ITEM		Α	NO. 14 1/C		
SIGNAL HEAD WITH BACKPLATE	+1>	+-	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	<u> </u>
SIGNAL HEAD OPTICALLY PROGRAMMED		→ P + P	MAST ARM POLE AND		RMF	VENDOR CABLE		
FLASHER INSTALLATION -(FS) SOLAR POWERED	op op FS	•►F •►FS	FOUNDATION TO BE REMOVED		IXIVIF	COPPER INTERCONNECT CABLE,	<b>——6*18</b>	<del></del>
	or≻ or≻ <sup>FS</sup>	■→ <sup>F</sup> ■→ <sup>FS</sup>	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	NO. 18, 3 PAIR TWISTED, SHIELDED	6*16	
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	12F	
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP		P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	[ <u>S]</u> (§)	s s			—(36F)—
VIDEO DETECTION CAMERA	v 1	V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		IS (IS)			
RADAR/VIDEO DETECTION ZONE		<b>III</b>	OUEUE AND SAMPLING (SYSTEM) DETECTOR	<u>[os]</u> (ôs)	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	<u> </u>	$\frac{1}{2}^{C}$ $\frac{1}{2}^{M}$ $\frac{1}{2}^{P}$ $\frac{1}{2}^{S}$
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ]]	PTZ	WIRELESS DETECTOR SENSOR	<b>®</b>	<b>®</b>	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	$\bowtie$	<b>~</b>	WIRELESS ACCESS POINT					
CONFIMATION BEACON	<b>○</b> ──	<b>⊷</b>						
WIRELESS INTERCONNECT	∘ <del>•   </del>	<del>•-+   </del>						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						

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STATE OF	ILLINOIS
<b>DEPARTMENT OF</b>	TRANSPORTATION

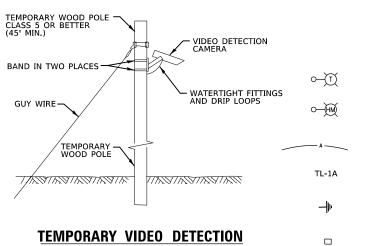
COUNTY
KANE
CONTRACT
DIS FED. AID PROJECT
01





# **NOTES FOR TEMPORARY LIGHTING**

- . 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.
- 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
- 3. 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.
- B. 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.
- 5. 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.
- 6. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.



# TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE

SCALE: 1"=50"

# **TEMPORARY LIGHTING LEGEND**

400 W. 120V, MCIII HPS, WITH PHOTO CELL 15' M.A. 50' MH ON WOOD POLE CLASS 4

750 W. 120V, MCIII HPS, WITH PHOTO CELL, 20' M.A. 90' MH ON WOOD POLE CLASS 2

3-1/C#2, AERIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED

THERWISE NOTED

TEMPORARY LIGHTING UNIT NUMBER-ONE CIRCUIT A

GROUND ROD %" DIA. X 10'

COMBINATION LIGHTING TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX

TEMPORARY TRAFFIC SIGNAL SPAN WIRE, NUMBER OF CONDUCTORS AS REQUIRED

USER NAME = mgarvida	DESIGNED - MG	REVISED	-
	CHECKED - KP	REVISED	-
PLOT SCALE = 100.0000 ' / in.	DRAWN - MG	REVISED	-
PLOT DATE = 10/8/2018	CHECKED KP	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

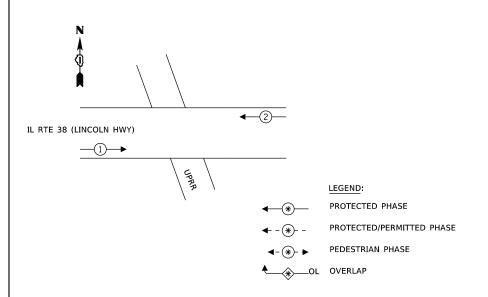
TEMPORARY LIGHTING ANG SIGNAL

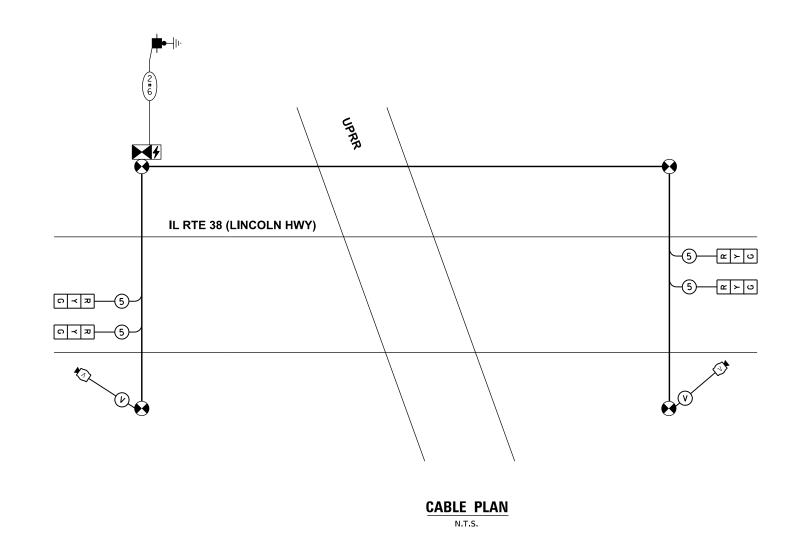
IL RTE 38 (LINCOLN HWY)

SHEET OF SHEETS STA. TO STA.



# TEMPORARY CONTROLLER SEQUENCE





# SCHEDULE OF QUANTITIES FOR TEMPORARY LIGHTING

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1300	FOOT	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
5	EACH	REMOVAL OF TEMPORARY LIGHTING UNITS
1	EACH	REMOVAL OF ELECTRIC SERVICE INSTALLATION
1	EACH	TEMPORARY ELECTRIC SERVICE CONNECTION
1	EACH	TEMPORARY ELECTRIC SERVICE INSTALLATION
3	EACH	TEMPORARY WOOD POLE, 60 FT. CLASS 4, 15 FT. MAST ARM
2	EACH	TEMPORARY WOOD POLE, 100 FT., CLASS 4, 20 FT. MAST ARM
1	EACH	COMBINATION POLE MOUNTED ELECTRIC SERVICE BOX
4	EACH	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 W. TYPE II DISTRIBUTION
2	EACH	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 750 WATT
6	EACH	GROUND ROD, % DIA. X 10 FEET

NOTE:
THESE QUANTITIES ARE FOR ESTIMATING PURPOSE ONLY.THESE ITEMS WILL BE PAID UNDER "TEMPORARY
LIGHTING FOR SINGLE LANE STAGING". THE TEMPORARY TRAFFIC SIGNAL ITEMS NOT INCLUDED IN THE PAY
ITEM "TEMPORARY LIGHTING FOR SINGLE LANE STAGING" SHALL BE PART OF PAY ITEM "TEMPORARY BRIDGE
TRAFFIC SIGNAL INSTALLATION".

# SCHEDULE OF QUANTITIES FOR TEMPORARY TRAFFIC SIGNALS

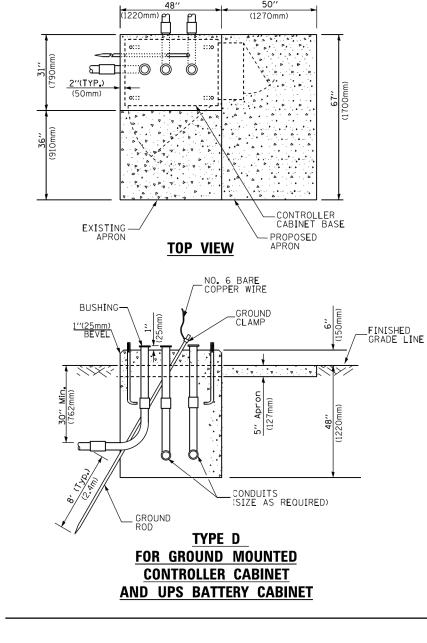
<b>QUANTITY</b>	UNIT	<u>ITEM</u>
1	EACH	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION
2	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

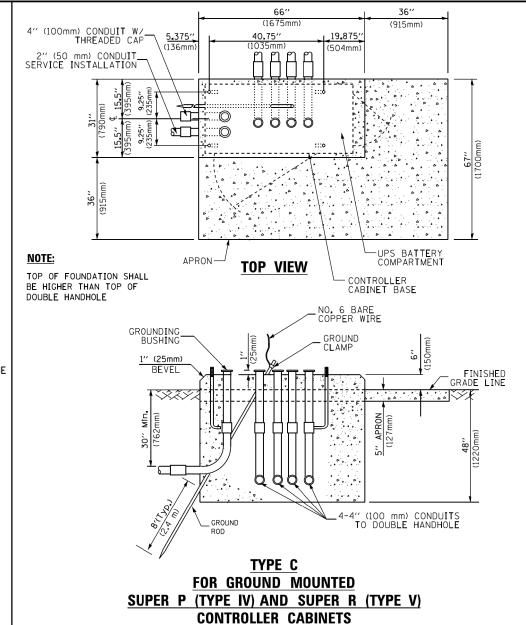
ELECTRIC UTILITY CHARGES FOR THE OPERATION OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND TEMPORARY LIGHTING SHALL BE PAID FOR BY THE CONTRACTOR.

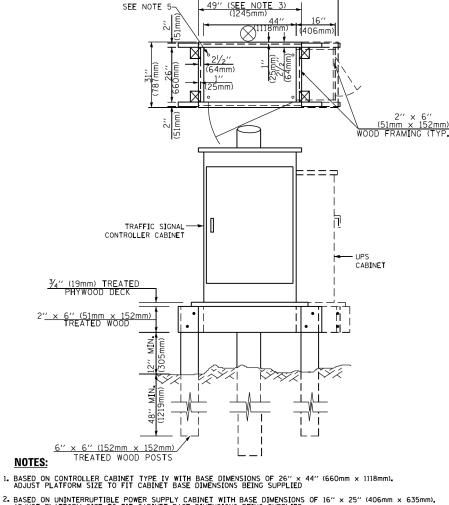
SEE IDOT D1 STANDARD DETAILS BE-805 FOR MORE INFORMATION ON TEMPORARY LIGHTING AND SIGNAL INSTALLATION.

THE CONTRACTOR SHALL VERIFY THE POWER LOCATION WITH COMED PRIOR TO COMMENCEMENT OF THE WORK.

USER NAME = mgarvida	DESIGNED - MG	REVISED -		TEMPORARY CABLE PLAN AND	F.A.P. RTE	SECTION	N COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - KP	REVISED -	STATE OF ILLINOIS	TEMPORARY PHASE DESIGNATION DIAGRAM	567	5VB-BR	KANE	73	22
PLOT SCALE = 100.0000 ' / in.	DRAWN - MG	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 38 (LINCOLN HWY)			CONTRAC	T NO. 62	2C14
PLOT DATE = 10/8/2018	CHECKED - KP	REVISED -		SCALE: N.T.S.   SHEET OF SHEETS STA. TO STA.		ILLI	INOIS FED. AID PROJECT		







- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

# TEMPORARY SIGNAL CONTROLLER **WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK** 

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

<b>VERTICAL</b>	<b>CABLE</b>	LENGTH
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FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1 <u>.</u> 2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1 <sub>•</sub> 2m)
TYPE D - CONTROLLER	4'-0" (1 <sub>2</sub> m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1 <sub>2</sub> 2m)

#### **DEPTH OF FOUNDATION**

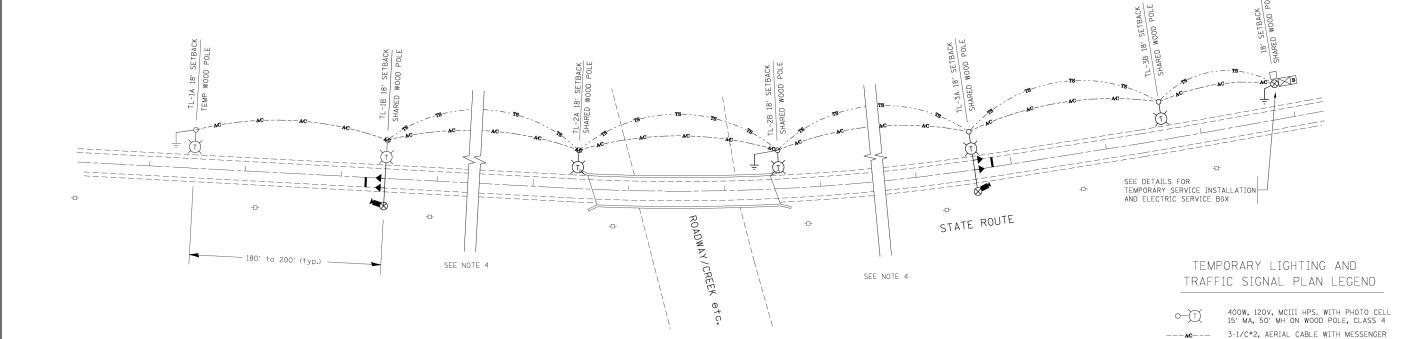
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4 <sub>4</sub> 1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)
NOTES.	·				

#### <u>NOTES:</u>

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001..

### **DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

FILE NAME =	USER NAME = plascencia:	DESIGNED -	REVISED -					DISTRI	CT ONE		F.A.	P.	SECTION	COUNTY	TOTAL SHEET
S:\WP\Design\Iovan\SamplePlans\DGNFiles\	TSExample01-sht-ts.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	S	0.	TANDADD :			FOION DETAILO	56	57	5VB-BR	KANE	73 23
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPOR	DRTATION	5	STANDAKD	I KAFFIC S	IGNAL L	ESIGN DETAILS			TS-05	CONTRAC	T NO. 62C14
Default	PLOT DATE = 5/17/2016	DATE -	REVISED -		SCALE:	E: NONE	SHEET 5	OF 7 S	HEETS ST	A. TO STA.			ILLINOIS FED. A	ID PROJECT	

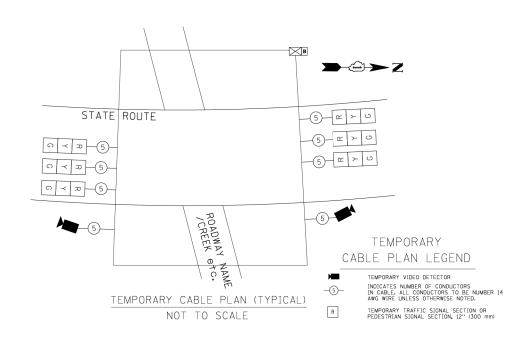


TYPICAL LAYOUT FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS

NOT TO SCALE

### GENERAL NOTES:

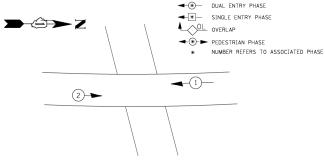
- 1. CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENSE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
- 2. UNLESS OTHERWISE 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.
- 3. 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
- 5. 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 CCORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALENT OR AN APPROVED UL LISTED AERIAL
- 9. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.



SCALE: NONE

TEMPORARY PHASE DESIGNATION DIAGRAM LEGEND

73 24



WIRE UNLESS OTHERWISE NOTED

GROUND ROD 5/8" DIA. x 10' COMBINATION LIGHTING AND TRAFFIC

OF CONDUCTORS AS REQUIRED.

PLATE MOUNTED TO WOOD POLE TEMPORARY VIDEO DETECTOR

CIRCUIT A

TEMPORARY LIGHTING UNIT NUMBER - ONE

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

TEMPORARY TRAFFIC CONTROLLER WITH UPS AND BOTTOM

TL-1A

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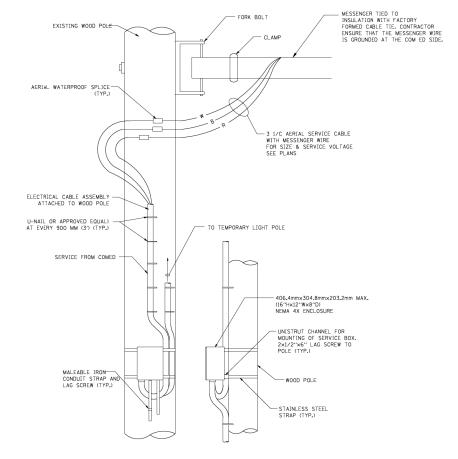
TEMPORARY PHASE DESIGNATION DIAGRAM (TYPICAL) NOT TO SCALE

FILE NAME = DESIGNED USER NAME = bauerdl REVISED c:\pw\_work\PWIDOT\BAUERDL\dØ1Ø8315\be DRAWN REVISED HECKED REVISED PLOT SCALE = 50.000 '/ IN.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

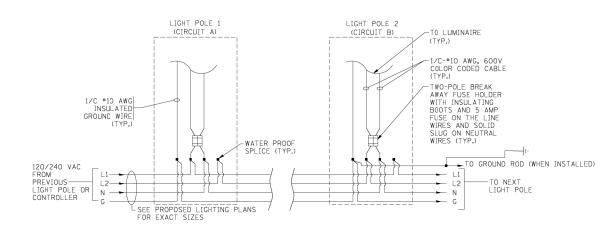
SECTION COUNTY TEMPORARY LIGHTING AND TRAFFIC SIGNALS 567 5VR-RR KANE FOR SINGLE LANE STAGING CONTRACT NO. 62C14 BE-805

TEMPORARY SERVICE INSTALLATION DETAIL NOT TO SCALE



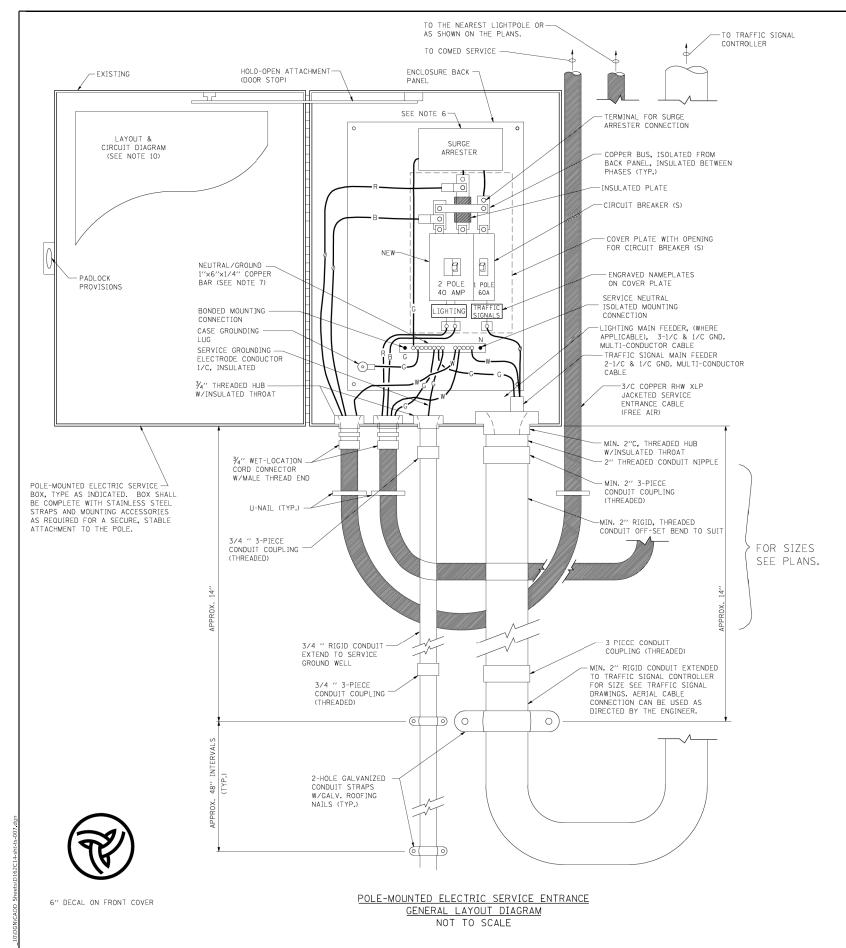
DISCONNET MOUNTING DETAIL

NOT TO SCALE



LIGHT POLE WIRING DETAIL NOT TO SCALE

FILE NAME =	USER NAME = bauerdl	DESIGNED - MP	REVISED -			TEMPORARY LIGHTING AND TRAFFIC SIGNALS	F.A.P. RTF	SECTION	COUNTY	TOTAL S	HEET NO.
c:\pw_work\PWIDOT\BAUERDL\dØ1Ø8315\be80	5.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			567	5VB-BR	KANE	73	25
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		FOR SINGLE LANE STAGING		BE-805	CONTRACT	NO. 620	14
	PLOT DATE = 1/14/2010	DATE - 01/14/10	REVISED -		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS STA. TO STA.	FED. RO	OAD DIST. NO. 1 ILLINOIS FED	AID PROJECT		

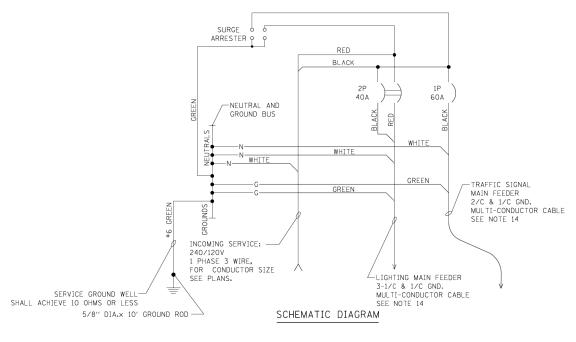


#### NOTES:

- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY.
   SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- 2. THE POLE-MCUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER AND TRAFFIC SIGNALS MAIN BREAKER AS REQUIRED.
- 3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE FOLITHMENT
- THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOP4/C-PMMI2, OR APPROVED EQUAL.
- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- 5. THE SURGE FROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.

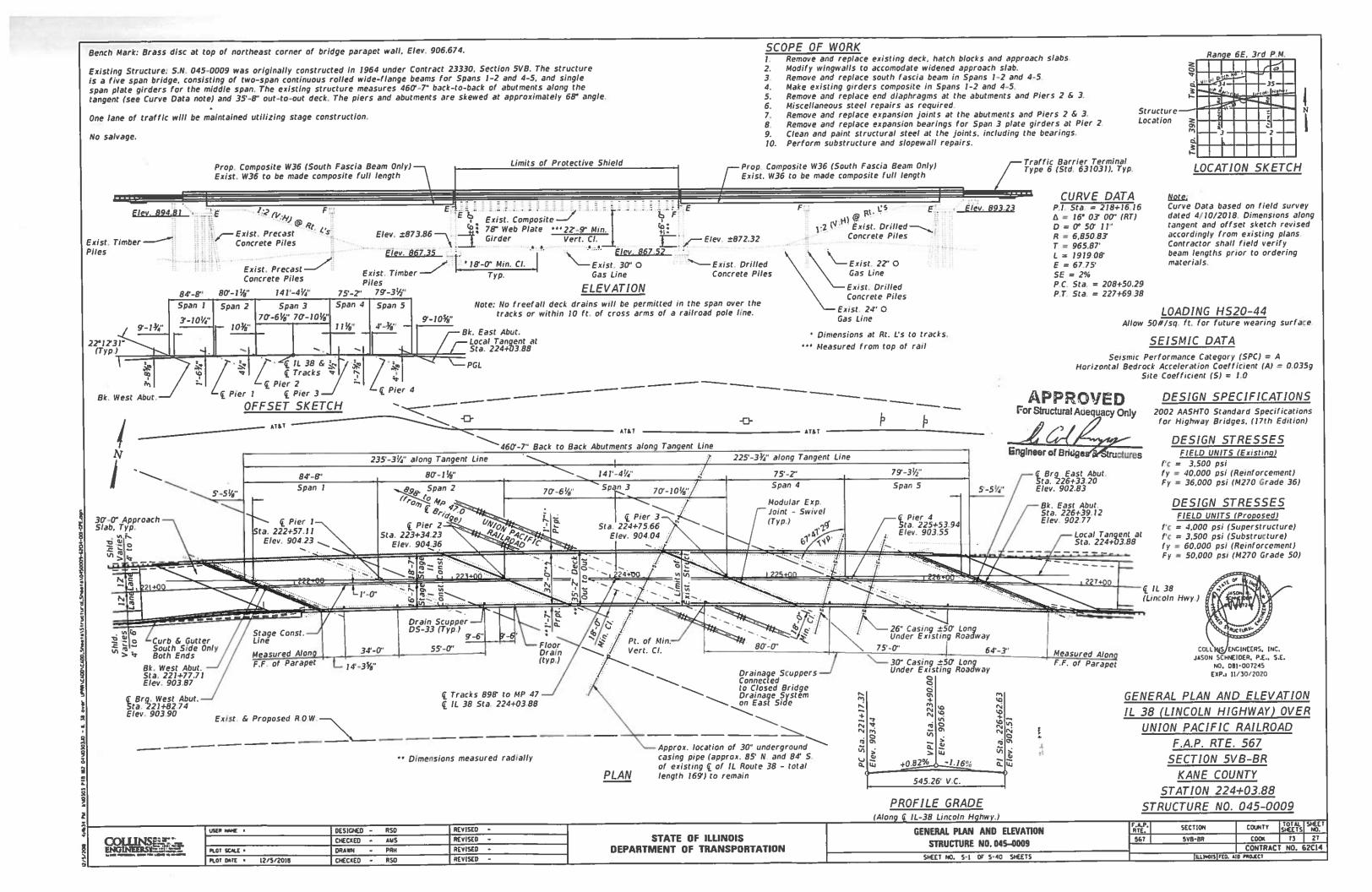
SCALE: NONE

- 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
- 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- 10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER
- 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
- 13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



FILE NAME =	USER NAME = bauerdl	DESIGNED - MP	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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5-4	Temporary Concrete Barrier for Stage Construction
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S-9 to S-10	Top of Approach Slab Elevations
S-11	Superstructure - Spans 1 & 2
S-12 to S-13	Superstructure Details - Spans 1 & 2
S-14	Superstructure - Span 3
S-15	Superstructure Details - Span 3
S-16	Superstructure - Spans 4 & 5
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S-34	Slopewall Repair Details
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S-39	Bar Splicer Assembly and Mechanical Splicer Details
S-40	Parapet Details at Preformed Joint Seal

#### GENERAL NOTES

- 1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts ¾" dia., holes ⅓" dia., unless otherwise noted.
- 2. All structural steel shall be AASHTO M270 Gr. 36, unless otherwise noted.
- 3. Calculated weight of Structural Steel = 26,280 pounds (Gr. 36) = 60,840 pounds (Gr. 50)
- 4. No field welding is permitted except as specified in the contract documents.
- 5. The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
- 6. Reinforcement bars designated (E) shall be epoxy coated.
- . Prior to pouring the new concrete deck, 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.
- As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 9. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- 10. 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.
- 11. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $V_8$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 12. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 13. The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- 14. All new fasteners shall be high strength bolts. Holes shall be subpunched or subdrilled "1/16" dia. and reamed in the field 1/16" dia. for 3/4" dia. bolts, unless otherwise noted. Holes shall be subpunched or subdrilled 1/16" dia. and reamed in the field to 1/5/16" dia. or 1/6" dia. bolts, unless otherwise noted.
- 15. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
- 16. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type 1.

# GENERAL NOTES (cont.)

17. Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Structural Steel Structures". All beams, bearings and other structural steel within 10 feet (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning – SSPC-SP10. The exterior surfaces and bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning – SSPC-SP15.

All designated areas to be cleaned per Near White Blast Cleaning or Commercial Grade Power Tool Cleaning shall be painted according to the requirements of paint system 1 – OZ/E/U. The color of the final finish coat for the interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

18. The Contractor shall mark the top surface of the existing deck to identify the location and limits of the top flanges of the girders prior to the commencement of deck removal operation. Care shall be taken not to damage the existing girders. When girder is damaged by deck removal operations, it is the Contractor's responsibility to repair the damage at his/her own expense, as approved by the Engineer.

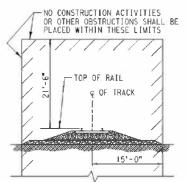
#### TOTAL BILL OF MATERIAL

STATION 224+03.88
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 567 SEC. 5VB-BR
LOADING HS-20
STRUCTURE NO. 045-0009

NAME PLATE See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plate.

TT54	////	CUDED	CUD	TOTAL
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		257	257
Concrete Removal	Cu. Yd.		15.3	15.3
Slope Wall Removal	Sq. Yd.		463	463
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	474		474
Floor Drains	Each	4		4
Concrete Structures	Cu. Yd.		20.9	20.9
Concrete Superstructure	Cu. Yd.	502.2		502.2
Protective Coat	Sq. Yd.	2,254		2,254
Concrete Superstructure (Approach Slab)	Cu. Yd.	95.9		95.9
Furnishing and Erecting Structural Steel	Pound	87,120		87,120
Stud Shear Connectors	Each	5,814		5,814
Cleaning and Painting Structural Steel,	L. Sum	1		1
Location 1		CAPT		1201
Reinforcement Bars, Epoxy Coated	Pound	168,630	5,350	173,980
Bar Splicers	Each	1455	230	1,685
Slope Wall 4 Inch	Sq. Yd.		513	513
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each	6		6
Anchor Bolts, 1"	Each	26		26
Controlled Low Strength Material	Cu. Yd.		150	150
Preformed Joint Seal 1½"	Foot	280		280
Preformed Joint Seal 3"	Foot	93.5		93.5
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,367		1,367
Jack and Remove Existing Bearings	Each	6		6
Structural Steel Removal	Pound	87,200		87,200
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum	1		1
Structural Repair of Concrete (Depth		107.1		100
Equal to or Less Than 5 inches)	Sq. Ft.		2,779	2,779
Drainage Scuppers, DS-33	Each	6		6
Drainage System	L. Sum	-1		1
Diamond Grinding (Bridge Section)	Sq. Yd.	1,606		1,606



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE

(NORMAL TO RAILROAD)

COLLINS Soline 800 P. COLLINS Soline 800 P. COLLINS Soline 800 P. COLLINS Soline 800 P. COLLINS SOLING SOLI
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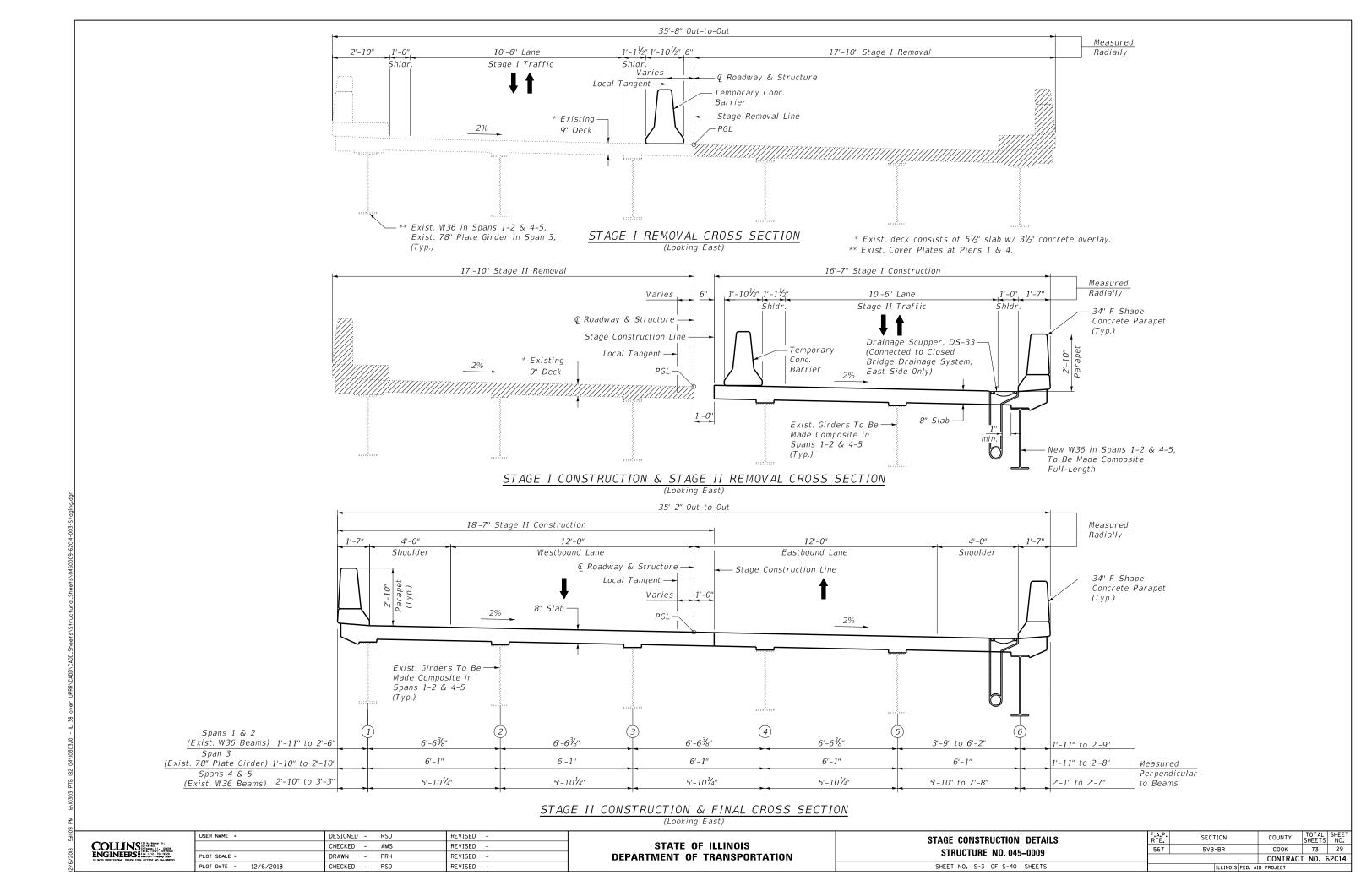
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	CHECKED -	AMS	REVISED -
PLOT SCALE =	DRAWN -	PRH	REVISED -
PLOT DATE = 1/16/2019	CHECKED -	RSD	REVISED -

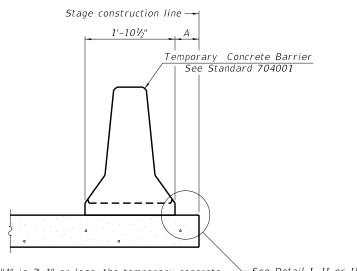
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
STRUCTURE NO. 045-0009

SHEET NO. S-2 OF S-40 SHEETS

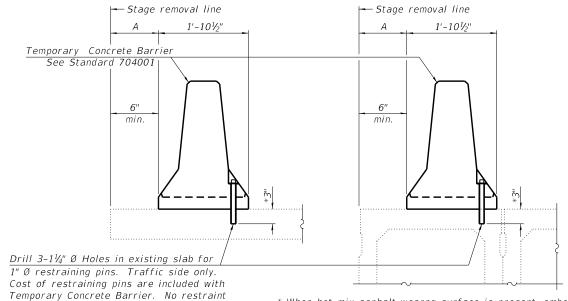
A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
567	5VB-BR	соок	73	28
		CONTRACT	NO. 6	32C14
	ILLINOIS FED. AI	D PROJECT		





— See Detail I, II or III 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



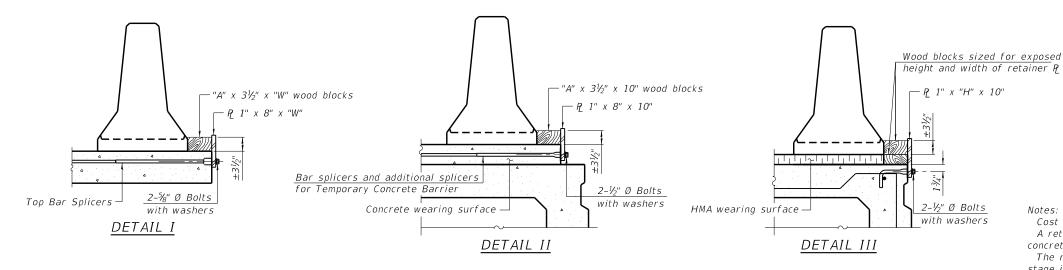
\* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

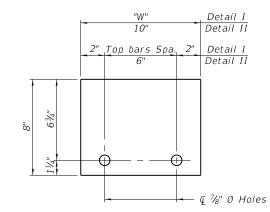
#### EXISTING DECK BEAM

#### SECTIONS THRU SLAB OR DECK BEAM

is required when "A" is greater than 3'-1".

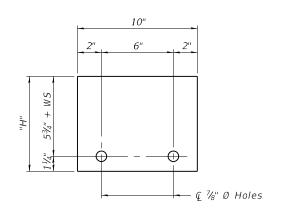
EXISTING SLAB



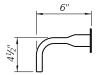


# STEEL RETAINER P 1" x 8" x "W"

(Detail I and II)



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



RESTRAINING PIN

### BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate Q 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.

1x8 UNC

US Std.  $1\frac{1}{16}$ " I.D. x  $2\frac{1}{2}$ " O.D. x approx. 8 guage thick washer

When the 'A' dimension is less than  $1\frac{1}{2}$ ", 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.

R-27

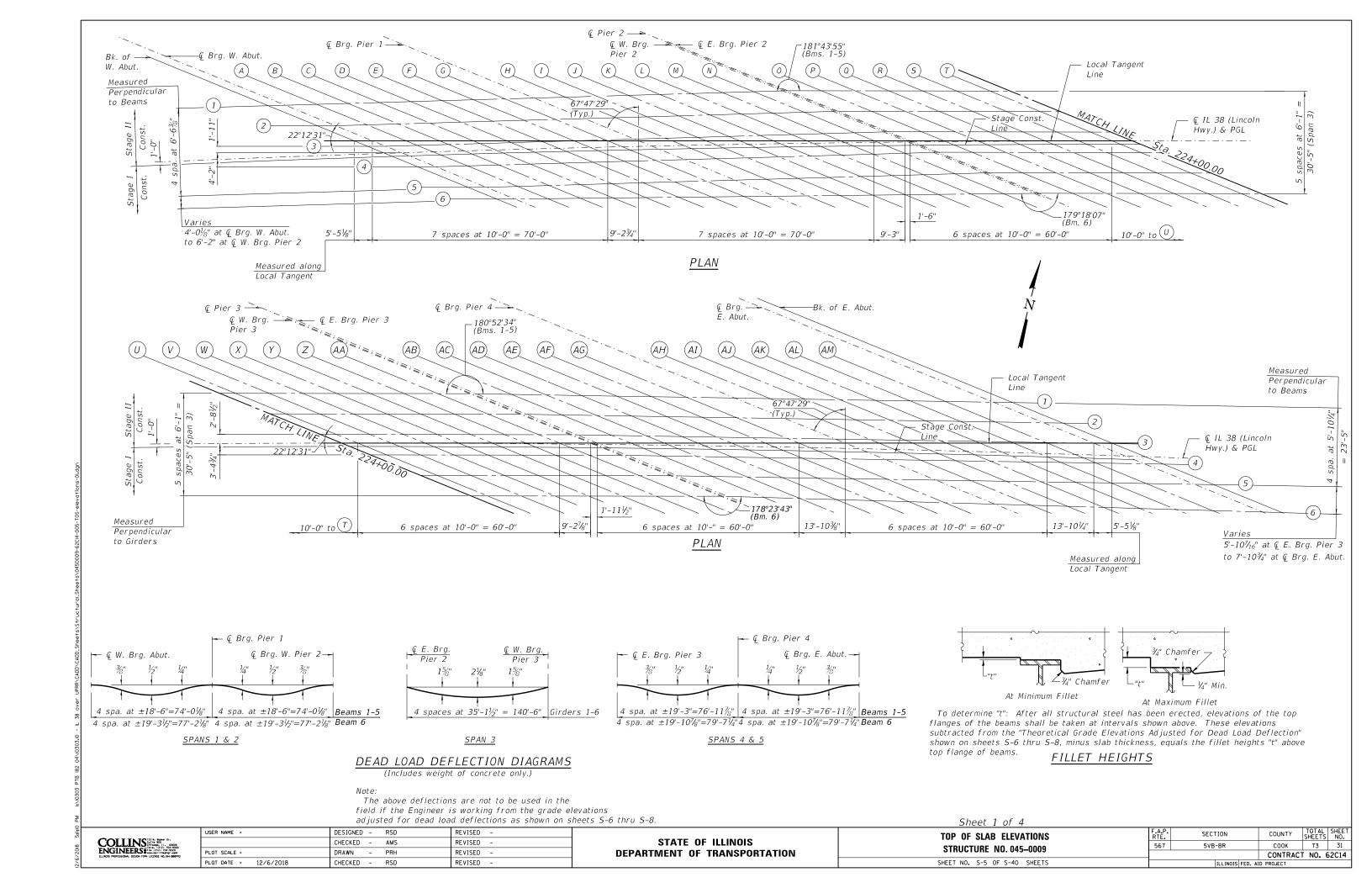
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ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-20	

USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY
STRUCTURE NO. 045-0009		5VB-BR	COOK
3111001011E NO. 043-0003			CONTRAC
SHEFT NO. S-4 OF S-40 SHEFTS		THE THOUGHT FED. AT	D DDO IECT



<u>BEAM 1</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut. Q Brg. W. Abut. A B C D E F G Q Brg. Pier 1 H I J K L M N Pier 2 - W. Brg. Pier 2 - E. Brg. O P Q	221+43.27 221+48.66 221+57.98 221+67.31 221+76.63 221+85.95 221+95.28 222+04.60 222+13.93 222+22.54 222+31.86 222+41.19 222+50.51 222+59.83 222+69.16 222+78.48 222+87.80 222+96.43 222+97.81 223+07.82 223+17.83	-15.53 -15.33 -15.26 -15.20 -15.15 -15.12 -15.10 -15.09 -15.11 -15.14 -15.18 -15.23 -15.30 -15.38 -15.30 -15.38 -15.47 -15.68 -15.71 -15.55 -15.40 -15.27	903.95 903.98 904.05 904.11 904.16 904.22 904.31 904.36 904.40 904.47 904.51 904.51 904.54 904.65 904.63 904.63 904.65 904.65	903.95 903.98 904.07 904.14 904.20 904.26 904.30 904.37 904.40 904.49 904.53 904.57 904.60 904.62 904.63 904.63 904.63 904.63 904.63 904.63
R S T U V W X Y Z AA Pier 3 - W. Brg. Pier 3 - E. Brg. AB AC AD AE AF AG G Brg. Pier 4 AH AI AJ AK AL AM G Brg. E. Abut. Bk E. Abut.	223+37.84 223+47.85 223+68.54 223+78.55 223+78.56 223+98.57 224+08.58 224+18.59 224+28.60 224+37.98 224+40.06 224+50.46 224+60.85 224+71.25 224+81.65 224+71.25 224+81.65 224+81.65 224+91.65 225+16.86 225+16.86 225+17.26 225+18.05 225+18.05 225+18.05 225+18.05 225+19.24 225+93.64 225+99.29	- 15 . 15 - 15 . 05 - 14 . 96 - 14 . 89 - 14 . 76 - 14 . 75 - 14 . 64 - 14 . 55 - 14 . 41 - 14 . 37 - 14 . 33 - 14 . 34 - 14 . 36 - 14 . 36 - 14 . 40 - 14 . 53 - 14 . 40 - 14 . 53	904.66 904.66 904.65 904.63 904.60 904.57 904.55 904.55 904.49 904.44 904.40 904.35 904.30 904.24 904.10 904.35 904.31 903.96 903.88 903.81 903.64 903.52	904.81 904.82 904.83 904.83 904.81 904.78 904.74 904.69 904.63 904.56 904.49 904.47 904.44 904.40 904.34 904.28 904.28 904.20 904.10 904.04 903.98 903.92 903.85 903.77 903.69 903.52 903.47

<u>BEAM 2</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Deac Load Deflection
Bk W. Abut.	221+57.96	-8.87	903.92	903.92
Q Brg. W. Abut.	221+63.35	-8.69	903.95	903.95
A	221+72.68	-8.64	904.01	904.03
В	221+82.02	-8.60	904.06	904.10
C	221+91.35	-8.57	904.12	904.16
D	222+00.68	-8.56	904.16	904.21
E	222+10.02	-8.56	904.21	904.24
F	222+19.35	-8.57	904.25	904.27
G			I .	
	222+28.68	-8.59	904.29	904.30
Q Brg. Pier 1	222+37.30	-8.63	904.33	904.33
Н	222+46.63	-8.68	904.36	904.37
I	222+55.97	-8.74	904.40	904.42
J	222+65.30	-8.81	904.43	904.46
K	222+74.63	-8.90	904.45	904.49
L	222+83.96	-9.00	904.48	904.52
M	222+93.30	-9.11	904.50	904.53
l N	223+02.63	-9.23	904.51	904.53
Pier 2 - W. Brg.	223+11.26	-9.36	904.53	904.53
Pier 2 - E. Brg.	223+12.64	-9.39	904.53	904.53
0	223+22.66	-9.25	904.54	904.58
P	223+22.00	-9.13	904.54	904.58
Q	223+42.69	-9.13	904.54	904.65
1 "				
R	223+52.71	-8.92	904.53	904.68
5	223+62.73	-8.84	904.53	904.69
T	223+72.74	-8.78	904.52	904.69
U	223+83.49	-8.72	904.50	904.68
V	223+93.51	-8.69	904.49	904.66
W	224+03.53	-8.67	904.46	904.63
X	224+23.56	-8.67	904.41	904.56
Y	224+23.56	-8.67	904.41	904.53
Z	224+33.58	-8.69	904.38	904.46
AA	224+43.60	-8.73	904.35	904.39
Pier 3 - W. Brg.	224+52.93	-8.78	904.31	904.31
Pier 3 - E. Brg.	224+55.02	-8.74	904.31	904.31
AB	224+65.43	-8.66	904.26	904.28
AC	224+75.83	-8.59	904.21	904.25
AD	224+86.24	-8.54	904.16	904.20
AE	224+96.64	-8.50	904.10	904.14
AF AF	225+07.05	-8.48	904.10	904.14
			I .	
AG	225+17.45	-8.47	903.98	903.99
Q Brg. Pier 4	225+31.88	-8.49	903.88	903.88
AH	225+42.29	-8.52	903.81	903.82
AI	225+52.70	-8.57	903.73	903.76
AJ	225+63.10	-8.63	903.65	903.69
AK	225+73.51	-8.71	903.57	903.62
AL	225+83.91	-8.81	903.48	903.53
AM	225+94.32	-8.92	903.39	903.44
Q Brg. E. Abut.	226+08.73	-9.10	903.26	903.26
Bk E. Abut.	226+14.38	-9.18	903.21	903.21
			•	•

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut.	221+72.68	- 2 . 25	903.88	903.88
Q Brg. W. Abut.	221+78.07	- 2 . 09	903.91	903.91
A	221+87.42	- 2 . 05	903.96	903.99
B	221+96.76	- 2 . 03	904.01	904.05
C	222+06.10	- 2 . 03	904.06	904.11
D	222+15.44	- 2 . 03	904.11	904.15
E F G G Brg. Pier 1 H	222+13.44 222+24.78 222+34.13 222+43.47 222+52.09 222+61.43	-2.05 -2.08 -2.13 -2.18 -2.25	904.11 904.15 904.19 904.22 904.25 904.28	904.13 904.18 904.21 904.23 904.25 904.29
I J K L	222+70.78 222+80.12 222+89.46 222+98.80 223+08.14	- 2 . 33 - 2 . 42 - 2 . 53 - 2 . 65 - 2 . 78	904.31 904.34 904.36 904.38 904.39	904.33 904.37 904.40 904.42 904.43
N	223+17 . 48	- 2 . 92	904.40	904.42
Pier 2 - W. Brg.	223+26 . 12	- 3 . 07	904.41	904.41
Pier 2 - E. Brg.	223+27 . 50	- 3 . 11	904.42	904.42
O	223+37 . 52	- 2 . 99	904.42	904.46
P	223+47 . 55	- 2 . 89	904.42	904.50
Q	223+57 . 58	- 2 . 80	904.41	904.52
R S T U	223+67 .60 223+77 .63 223+87 .66 223+98 .47 224+08 .49	- 2 . 72 - 2 . 67 - 2 . 62 - 2 . 59 - 2 . 58	904.40 904.39 904.37 904.35 904.33	904.54 904.55 904.55 904.53 904.51
W	224+18.52	- 2 . 58	904.31	904.47
X	224+28.55	- 2 . 60	904.28	904.42
Y	224+38.58	- 2 . 63	904.24	904.36
Z	224+48.60	- 2 . 67	904.21	904.29
AA	224+58.63	- 2 . 73	904.17	904.21
Pier 3 - W. Brg.	224+67.92	- 2 . 80	904.13	904.13
Pier 3 - W. Brg. Pier 3 - E. Brg. AB AC AD AE	224+70.01 224+80.42 224+90.83 225+01.25 225+11.66	-2.80 -2.77 -2.71 -2.66 -2.63 -2.62	904.13 904.12 904.07 904.02 903.96 903.89	904.13 904.12 904.09 904.05 904.00 903.93
AF	225+22.08	-2.62	903.83	903.86
AG	225+32.49	-2.63	903.76	903.77
Q Brg. Pier 4	225+46.94	-2.69	903.66	903.66
AH	225+57.35	-2.74	903.58	903.59
AI	225+67.76	-2.81	903.50	903.52
AJ	225+78.18	- 2 . 90	903.41	903.45
AK	225+88.59	- 3 . 00	903.33	903.37
AL	225+99.01	- 3 . 12	903.23	903.28
AM	226+09.42	- 3 . 25	903.14	903.19
Q Brg. E. Abut.	226+23.85	- 3 . 47	903.00	903.00
Bk E. Abut.	226+29.50	- 3 . 56	902.94	902.94

Sheet 2 of 4

4	COLLINS SUITE FOOD II. 6	
	ENGINEERS 2 (3) 21 PO	0606 -9300
	ENGINEERS # CONTROL OF 1 TO 1-19	320 .com
- 1	ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-	200993

USER NAME =	DESIGNED -	-	RSD	REVISED -
	CHECKED -	-	AMS	REVISED -
PLOT SCALE =	DRAWN -	-	PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	-	RSD	REVISED -

# <u>Ç IL 38 & PGL</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut. Q. Brg. W. Abut. A B C D E F	221+77.71 221+82.74 221+92.03 222+01.34 222+10.68 222+20.06 222+29.46 222+38.89	0.00 0.00 0.00 0.00 0.00 0.00 0.00	903.87 903.90 903.95 904.00 904.04 904.09 904.13 904.16	903.87 903.90 903.97 904.03 904.09 904.13 904.16 904.18
G Q Brg. Pier 1 H I J K L M	222+48.35 222+57.11 222+66.63 222+76.18 222+85.76 222+95.37 223+05.02 223+14.69	0.00 0.00 0.00 0.00 0.00 0.00 0.00	904.20 904.23 904.25 904.28 904.30 904.32 904.33 904.34	904.20 904.23 904.26 904.30 904.33 904.36 904.38
N Pier 2 - W. Brg. Pier 2 - E. Brg. O P Q R S T U V W X	223+24.40 223+33.41 223+34.88 223+44.65 223+54.46 223+64.31 223+74.19 223+84.10 223+94.05 224+04.83 224+14.85 224+24.91 224+35.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	904.35 904.36 904.36 904.36 904.35 904.34 904.33 904.31 904.29 904.26	904.37 904.36 904.36 904.40 904.44 904.46 904.49 904.49 904.47 904.47 904.40
Y Z AA Pier 3 - W. Brg. Pier 3 - E. Brg. AB AC AD AE AF AG	224+45.14 224+55.31 224+65.51 224+74.98 224+76.99 224+87.28 224+97.60 225+07.97 225+18.38 225+28.83 225+39.32	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	904.17 904.13 904.09 904.04 904.03 903.98 903.92 903.86 903.80 903.73 903.66	904.28 904.21 904.13 904.04 904.03 904.00 903.96 903.91 903.84 903.76 903.67
Q Brg. Pier 4 AH AI AJ AK AL AM Q Brg. E. Abut. BK E. Abut.	225+53.94 225+64.53 225+75.16 225+85.84 225+96.56 226+07.33 226+18.14 226+33.20 226+39.12	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	903.55 903.47 903.38 903.29 903.19 903.09 902.99 902.83 902.77	903.55 903.48 903.41 903.33 903.24 903.14 903.04 902.83 902.77

# STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut. Q Brg. W. Abut. A B C D E F G Q Brg. Pier 1 H I	221+79.95 221+84.98 221+94.28 222+03.60 222+12.95 222+22.33 222+31.74 222+41.18 222+50.65 222+59.42 222+68.95 222+78.51 222+88.09	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	903.86 903.89 903.94 903.99 904.03 904.12 904.15 904.15 904.21 904.24 904.24	903.86 903.89 903.96 904.03 904.08 904.12 904.15 904.17 904.21 904.21 904.25 904.28 904.32
K L M N Pier 2 - W. Brg. Pier 2 - E. Brg. O P Q R S T	222+97.72 223+07.37 223+17.05 223+26.77 223+35.79 223+37.26 223+47.05 223+56.87 223+56.87 223+66.72 223+76.61 223+86.53 223+96.49 224+07.29	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	904.30 904.32 904.33 904.34 904.34 904.34 904.33 904.33 904.33 904.32 904.29 904.26	904.34 904.36 904.35 904.34 904.34 904.38 904.41 904.44 904.46 904.46 904.46
V W X Y Z AA Pier 3 - W. Brg. Pier 3 - E. Brg. AB AC AD AE AF	224+17.32 224+27.39 224+37.50 224+37.64 224+57.82 224+68.04 224+77.50 224+79.51 224+89.81 225+00.15 225+10.53 225+20.95 225+31.41	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	904.24 904.21 904.18 904.14 904.05 904.01 904.00 903.95 903.89 903.83 903.76	904.41 904.37 904.32 904.25 904.18 904.01 904.00 903.97 903.93 903.87 903.87
AG Q Brg. Pier 4 AH AI AJ AK AL AM Q Brg. E. Abut. BK E. Abut.	225+41.92 225+56.55 225+67.15 225+77.80 225+88.49 225+99.22 226+10.00 226+20.83 226+35.91 226+41.84	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	903.62 903.51 903.43 903.34 903.25 903.15 903.05 902.94 902.79	903.63 903.51 903.44 903.36 903.29 903.20 903.09 902.99 902.79 902.72

Sheet 3 of 4

USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

<u>BEAM 4</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut. G Brg. W. Abut.	221+87 . 42 221+92 . 82	4.33 4.49	903.84 903.86	903.84 903.86
Q Brg. W. Abut. A	222+02.17	4.49	903.80	903.80
В	222+02.17	4.50	903.91	903.93
C	222+11.33	4.49	903.90	903.99
D	222+20.00	4.49	904.00	904.04
E	222+30.23	4.43	904.04	904.08
F	222+39.38	4.43	904.00	904.11
G	222+58.28	4.31	904.14	904.15
G Brg. Pier 1	222+66.91	4.24	904.17	904.17
H H	222+76.26	4.15	904.19	904.20
Ï	222+85.61	4.05	904.22	904.24
J	222+94.96	3.93	904.24	904.27
K	223+04.31	3.81	904.25	904.30
Ĺ	223+13.66	3.67	904.27	904.31
М	223+23.01	3.52	904.28	904.32
N	223+32.36	3.35	904.29	904.31
Pier 2 - W. Brg.	223+41.01	3.19	904.29	904.29
Pier 2 - E. Brg.	223+42.38	3.15	904.29	904.29
0	223+52.42	3.24	904.29	904.33
Р	223+62.45	3.32	904.28	904.36
Q	223+72.49	3.39	904.27	904.39
R	223+82.52	3.44	904.26	904.40
S	223+92.56	3.48	904.24	904.41
T	224+02.60	3.50	904.22	904.40
U	224+13.47	3.51	904.20	904.38
V	224+23.51	3.50	904.17	904.35
W	224+33.54	3.47	904.14	904.30
X	224+43.58	3.43	904.11	904.25
Y Z	224+53.61	3.38	904.07	904.18
AA	224+63.65 224+73.68	3.31 3.23	904.03 903.98	904.11 904.03
Pier 3 - W. Brg.	224+73.00	3.14	903.96	904.03
Pier 3 - E. Brg.	224+85.02	3.17	903.94	903.93
AB	224+95.44	3.21	903.87	903.90
AC	225+05.86	3.23	903.81	903.85
AD	225+16.29	3.24	903.75	903.79
AE	225+26.71	3.23	903.68	903.72
AF	225+37.13	3.21	903.61	903.64
AG	225+47.56	3.17	903.54	903.55
Q Brg. Pier 4	225+62.01	3.09	903.43	903.43
ĀH	225+72.44	3.01	903.34	903.35
AI	225+82.86	2.91	903.26	903.28
AJ	225+93.28	2.80	903.17	903.21
AK	226+03.70	2.68	903.07	903.12
AL	226+14.12	2.54	902.98	903.02
AM	226+24.55	2.38	902.88	902.93
Q Brg. E. Abut.	226+38.99	2.14	902.73	902.73
Bk E. Abut.	226+44.64	2.03	902.67	902.67

BEAM 5

	<u> </u>			
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut.	222+02.19	10.89	903.78	903.78
	222+02.19	11.04	903.78	903.78
Q Brg. W. Abut.		11.04		
A	222+16.96		903.85	903.87
В	222+26 . 32	11.01	903.89	903.92
С	222+35.68	10.97	903.93	903.97
D	222+45.04	10.93	903.97	904.00
E	222+54.40	10.87	904.00	904.02
F	222+63.76	10.80	904.03	904.04
G	222+73.12	10.71	904.06	904.06
G Brg. Pier 1	222+81.76	10.62	904.08	904.08
$\bar{H}$	222+91.12	10.52	904.10	904.11
I	223+00.48	10.39	904.12	904.14
J	223+09.83	10.26	904.13	904.17
K	223+19.19	10.11	904.15	904.19
$\hat{L}$	223+28.55	9.95	904.16	904.20
I M	223+37.91	9.78	904.16	904.20
N	223+47.26	9.59	904.17	904.19
Pier 2 - W. Brg.	223+47.20	9.41	904.17	904.19
Pier 2 - W. Brg.	223+57.29	9.37	904.17	904.17
O	223+67.34	9.37	904.17	904.17
P				
· .	223+77 . 38	9.50	904.15	904.23
Q	223+87 . 43	9.54	904.13	904.25
R	223+97 . 47	9.57	904.11	904.26
5	224+07.52	9.59	904.09	904.25
T	224+17.56	9.59	904.07	904.24
U	224+28.50	9.57	904.03	904.21
V	224+38.54	9.54	904.00	904.18
W	224+48.59	9.49	903.97	904.13
X	224+58.63	9.43	903.93	904.07
Y	224+68.68	9.36	903.88	904.00
Z	224+78.72	9.27	903.84	903.92
AA	224+88.77	9.16	903.79	903.83
Pier 3 - W. Brg.	224+97.96	9.06	903.74	903.74
Pier 3 - E. Brg.	225+00.05	9.08	903.73	903.73
AB	225+10.49	9.10	903.67	903.69
AC	225+20.92	9.10	903.60	903.64
AD	225+31.35	9.08	903.53	903.58
AE	225+41.78	9.05	903.46	903.50
AF	225+52.22	9.00	903.39	903.41
AG	225+62.65	8.94	903.31	903.32
Q Brg. Pier 4	225+77.12	8.83	903.19	903.19
AH	225+87.55	8.72	903.10	903.11
AI	225+97.98	8.61	903.01	903.04
AJ	226+08.41	8.47	902.91	902.96
AK	226+18.84	8.33	902.81	902.87
AL	226+29.27	8.16	902.71	902.76
AM	226+39.70	7.98	902.61	902.76
G Brg. E. Abut.	226+54.15	7.70	902.45	902.00
Bk E. Abut.	226+59.81	7.70	902.43	902.43
DR L. ADUL.	220133.01	1.55	1 302.33	302.33

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk W. Abut.	222+10.61	14.61	903.75	903.75
Q Brg. W. Abut.	222+16.04	14.75	903.77	903.77
Ā	222+25.80	14.91	903.81	903.83
В	222+35.56	15.05	903.85	903.88
С	222+45.33	15.17	903.88	903.92
D	222+55.09	15.29	903.91	903.94
E	222+64.85	15.39	903.94	903.96
F	222+74.61	15.47	903.96	903.98
G	222+84.38	15.54	903.99	903.99
Q Brg. Pier 1	222+93.39	15.60	904.00	904.00
H	223+03.16	15.64	904.02	904.03
I	223+12.92	15.67	904.03	904.05
J	223+22.68	15.69	904.04	904.08
K	223+32.45	15.69	904.04	904.09
L	223+42.21	15.68	904.04	904.10
M	223+51.97	15.65	904.04	904.09
N Diar 2 W Dra	223+61.74 223+70.77	15.61	904.04	904.06
Pier 2 - W. Brg. Pier 2 - E. Brg.	223+70.77	15.57 15.55	904.03	904.03 904.03
O Prer 2 - L. Bry.	223+72.23	15.61	904.03	904.03
P	223+92.34	15.64	904.00	904.08
l o	224+02.39	15.66	903.98	904.10
R	224+12.45	15.67	903.96	904.11
5	224+22.50	15.66	903.93	904.10
T	224+32.56	15.64	903.90	904.08
U	224+43.56	15.60	903.86	904.05
V	224+53.61	15.55	903.82	904.01
W	224+63.66	15.48	903.78	903.95
X	224+73.72	15.40	903.74	903.89
Y	224+83.77	15.30	903.69	903.81
Z	224+93.82	15.19	903.64	903.73
AA	225+03.88	15.06	903.59	903.63
Pier 3 - W. Brg.	225+13.02 225+15.09	14.94 14.95	903.54	903.54 903.52
Pier 3 - E. Brg. AB	225+15.09	15.08	903.32	903.32
AC AC	225+36.69	15.00	903.43	903.41
AD	225+47.49	15.19	903.30	903.34
AE	225+58.30	15.37	903.21	903.25
AF	225+69.10	15.44	903.12	903.15
AG	225+79.90	15.48	903.03	903.04
G Brg. Pier 4	225+94.88	15.52	902.90	902.90
ÄH	226+05.68	15.53	902.80	902.81
AI	226+16.48	15.52	902.69	902.73
AJ	226+27.28	15.49	902.59	902.65
AK	226+38.08	15.44	902.47	902.54
AL	226+48.88	15.38	902.36	902.42
AM	226+59.68	15.30	902.24	902.29
Q Brg. E. Abut.	226+74.65	15.17	902.07	902.07
Bk E. Abut.	226+80.51	15.10	902.00	902.00

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USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Sneet 4 of 4					
TOP OF SLAB ELEVATIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 045-0009	567	5VB-BR	COOK	73	34
31NOCIONE NO. 043-0003			CONTRAC	T NO. 6	52C14
SHEET NO. S-8 OF S-40 SHEETS		ILLINOIS FED. AI	D PROJECT		

# NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab Pvmt.	221+12.53	- 16 . 00	903.72
A1	221+22.50	- 16 . 00	903.80
A2	221+32.37	- 16 . 00	903.88
E. End W. Appr. Slab Pvmt.	221+42.23	-16.00	903.95

# <u>Ç IL 38 & PGL</u>

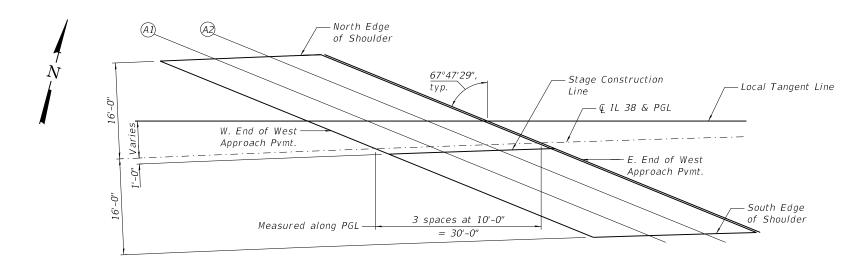
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab Pvmt.	221+47.72	0.00	903.67
A1	221+57.72	0.00	903.74
A2	221+67.72	0.00	903.80
E. End W. Appr. Slab Pvmt.	221+77.72	0.00	903.87

# STAGE CONSTRUCTION LINE

Location	Station	0ff set	Theoretical Grade Elevations
W. End W. Appr. Slab Pvmt.	221+49.93	1.00	903.67
A1	221+59.93	1.00	903.73
A2	221+69.93	1.00	903.80
E. End W. Appr. Slab Pvmt.	221+79.93	1.00	903.86

# SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab Pvmt.	221+83.48	16.00	903.58
A1	221+93.48	16.00	903.64
A2	222+03.63	16.00	903.69
E. End W. Appr. Slab Pvmt.	222+13.78	16.00	903.74



<u>PLAN</u> West Approach Slab

Sheet 1 of 2

COLL	INS 123 N. Tooker Dr. Suffre 900 Chifcogo, 11. 60606
ENGINE	ERS 2 fox (312) 704-9300
ILLINOIS PROFESSIONAL	L DESIGN FIRM LICENSE NO. 184-200993

USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

# NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab Pvmt.	225+96.20	-16.00	903.52
A3	226+06.01	-16.00	903.43
A4	226+15.82	-16.00	903.33
E. End E. Appr. Slab Pvmt.	226+25.62	-16.00	903.23

# <u> @ IL 38 & PGL</u>

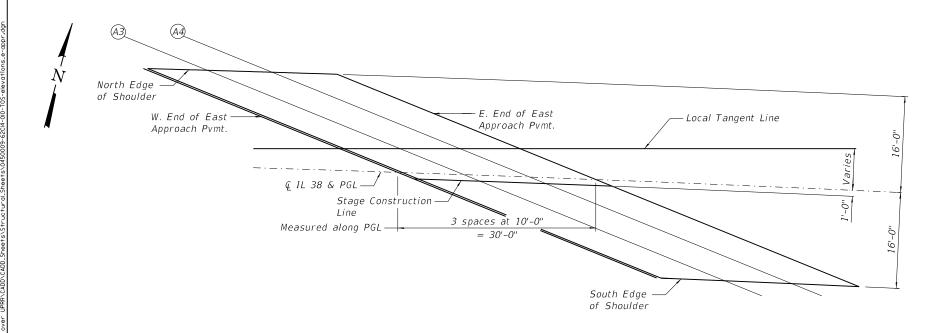
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab Pvmt.	226+39.120	0.00	902.77
A3	226+49.12	0.00	902.66
A4	226+59.12	0.00	902.55
E. End E. Appr. Slab Pvmt.	226+69.12	0.00	902.44

# STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab Pvmt.	226+41.84	1.00	902.72
A3	226+51.85	1.00	902.61
A4	226+61.86	1.00	902.50
E. End E. Appr. Slab Pvmt.	226+71.87	1.00	902.38

# SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab Pvmt.	226+83.00	16.00	901.95
A3	226+93.20	16.00	901.84
A4	227+03.40	16.00	901.72
E. End E. Appr. Slab Pvmt.	227+13.61	16.00	901.60

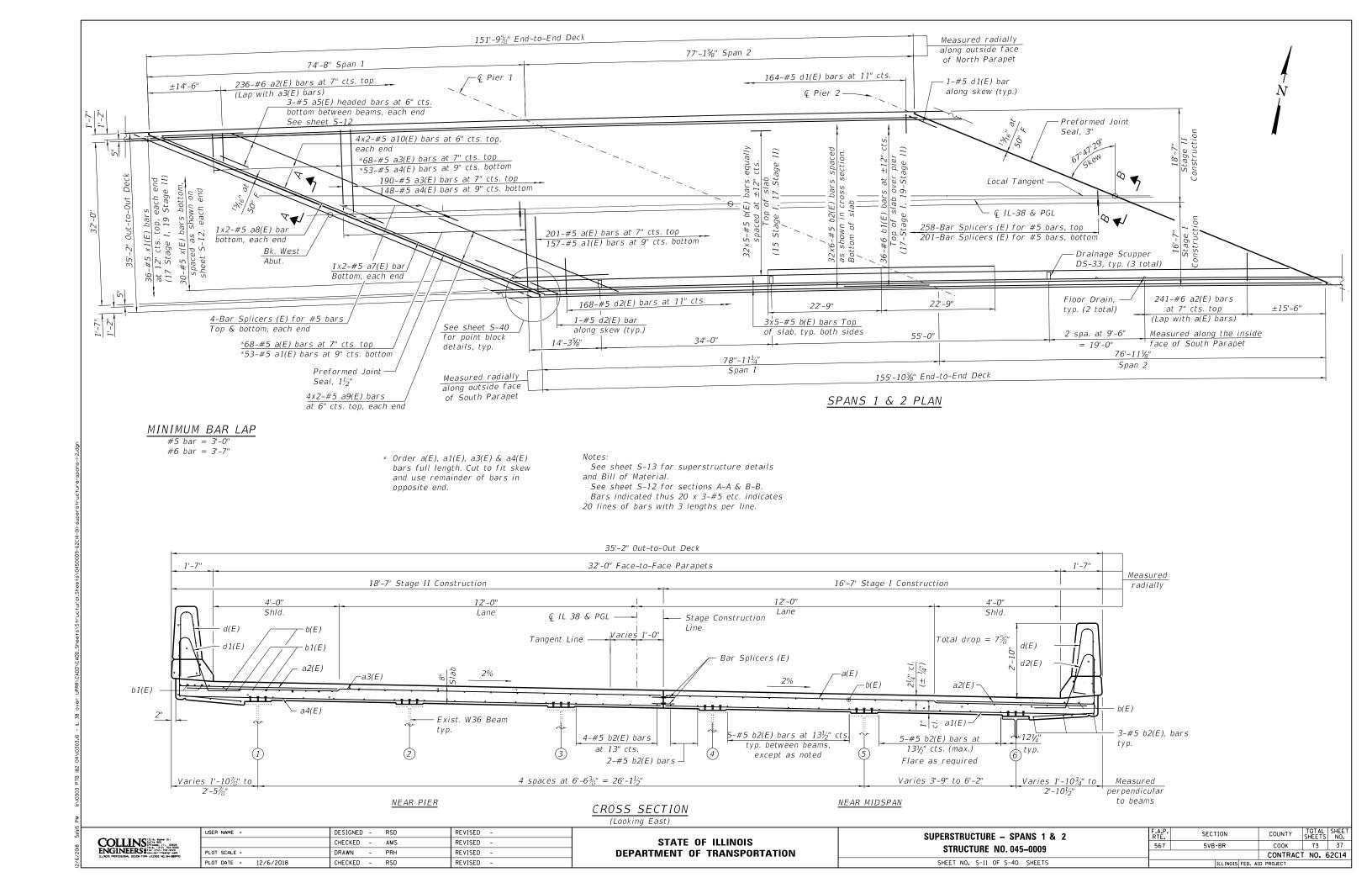


<u>PLAN</u> East Approach Slab

Sheet 2 of 2

	T. N. 747 12\ 5. Proper for
( )	INCSUITE 900
	EERS 2 100 (312) 104-9300
NGIN	EERS 2 ox (312) 704-9320
I INDIS PROFESSION	AL DESTAL FIRM LICENSE NO. 184-888993

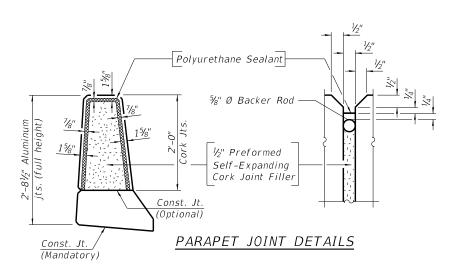
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	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -



### DIAPHRAGM AT ABUTMENT

(Pier 2 similar, except as noted, see Section B-B)

See sheet S-13 for superstructure details and Bill of Material. The x(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

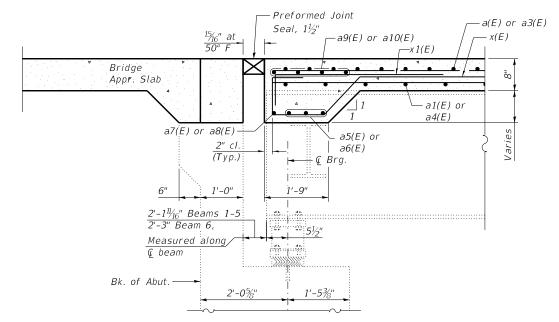
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.

The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete. The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.

The  $lac{V_8}{B}$  Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

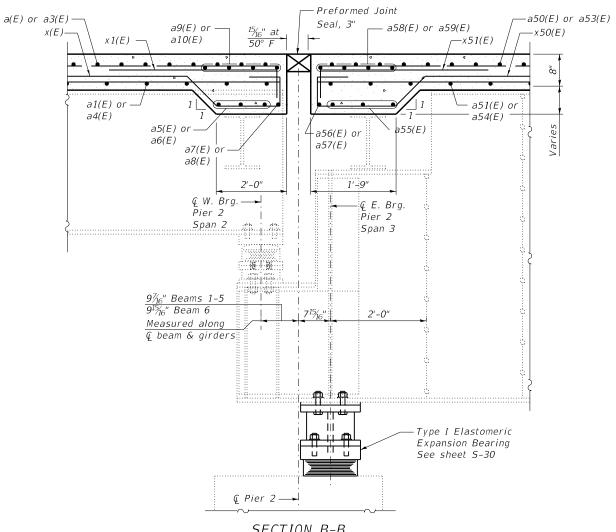
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



# SECTION A-A

Note: Dimensions measured at Rt. L's Unless otherwise noted



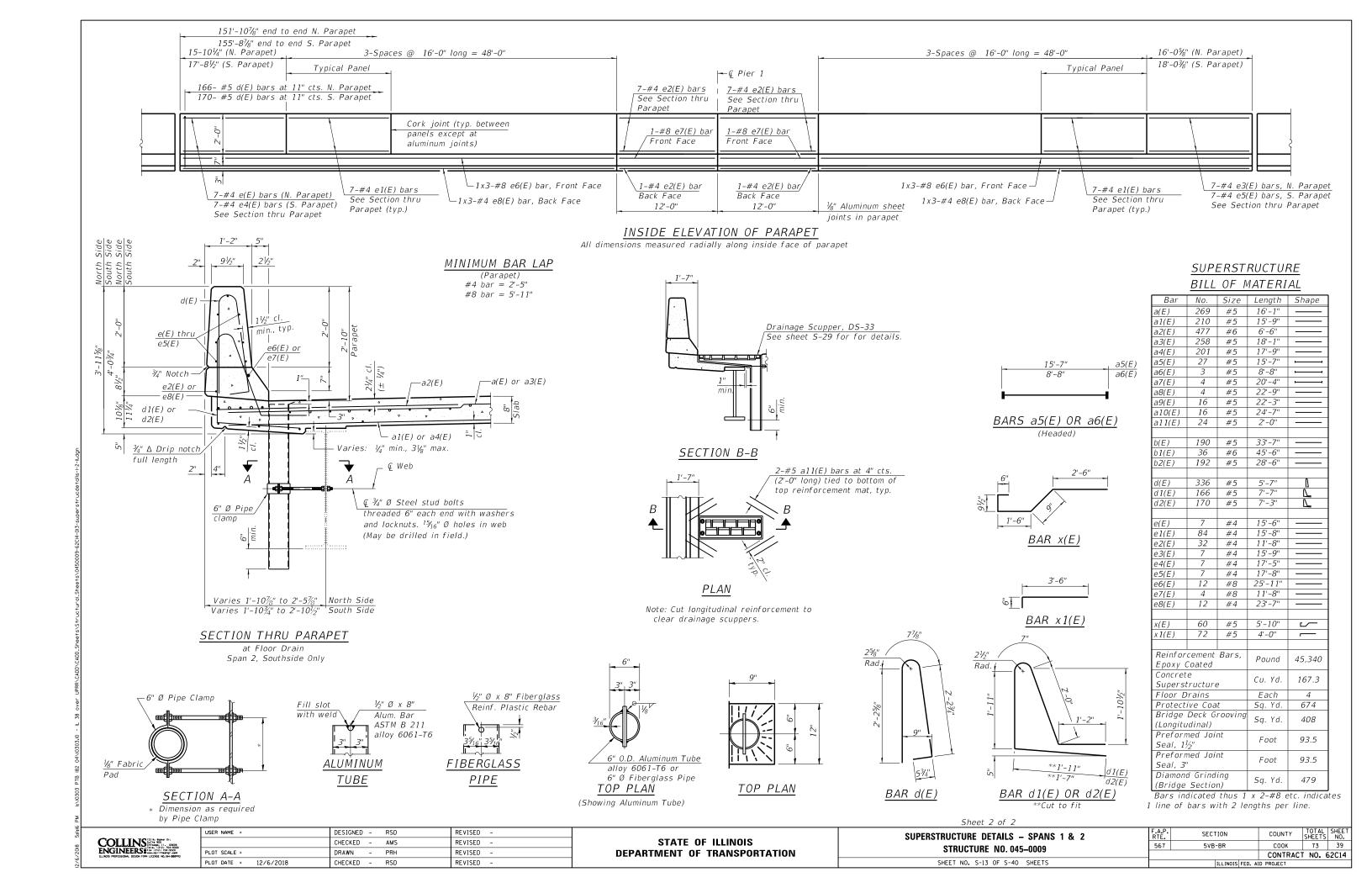
# SECTION B-B

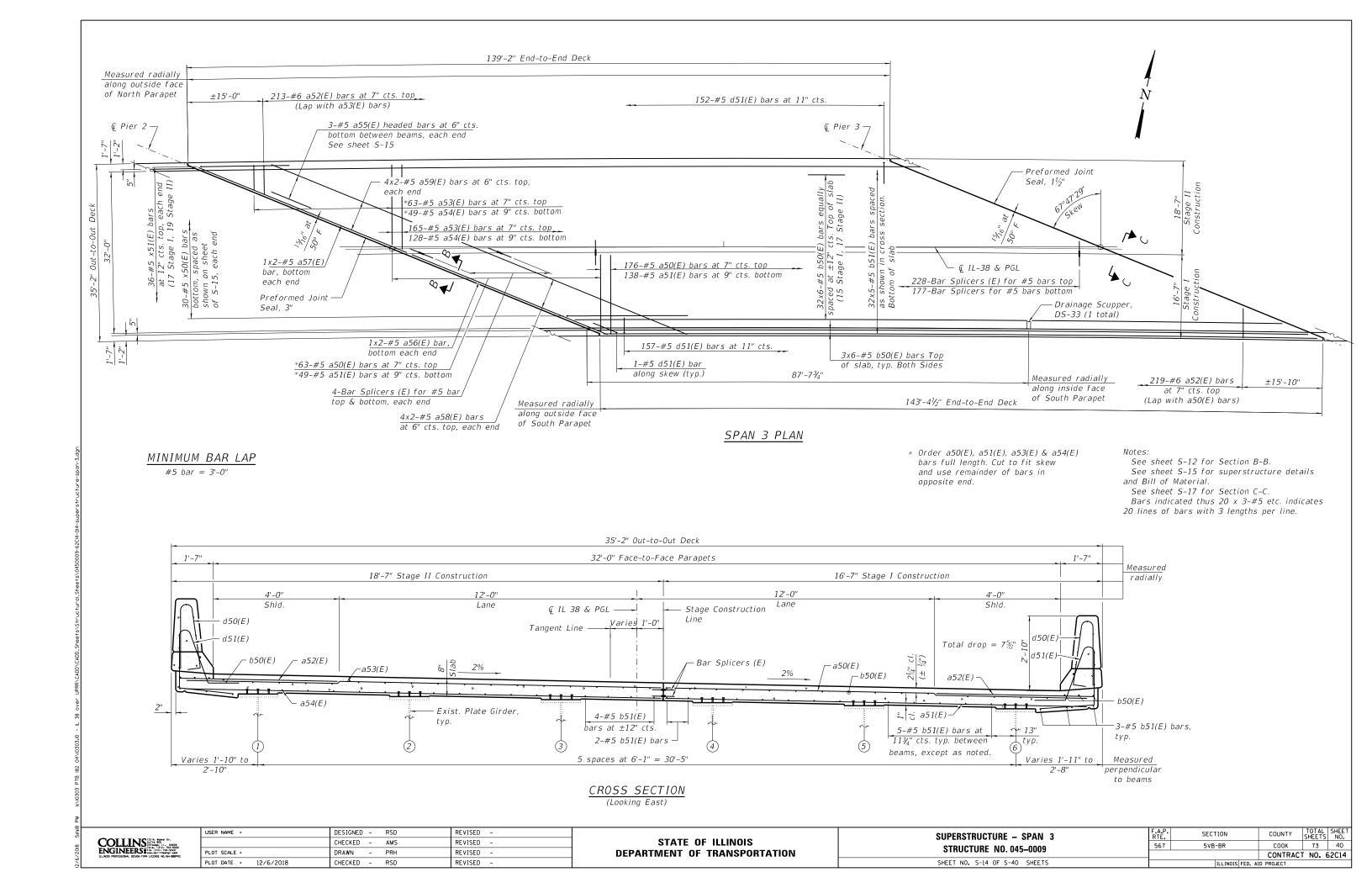
Note: Dimensions measured at Rt. L's Unless otherwise noted

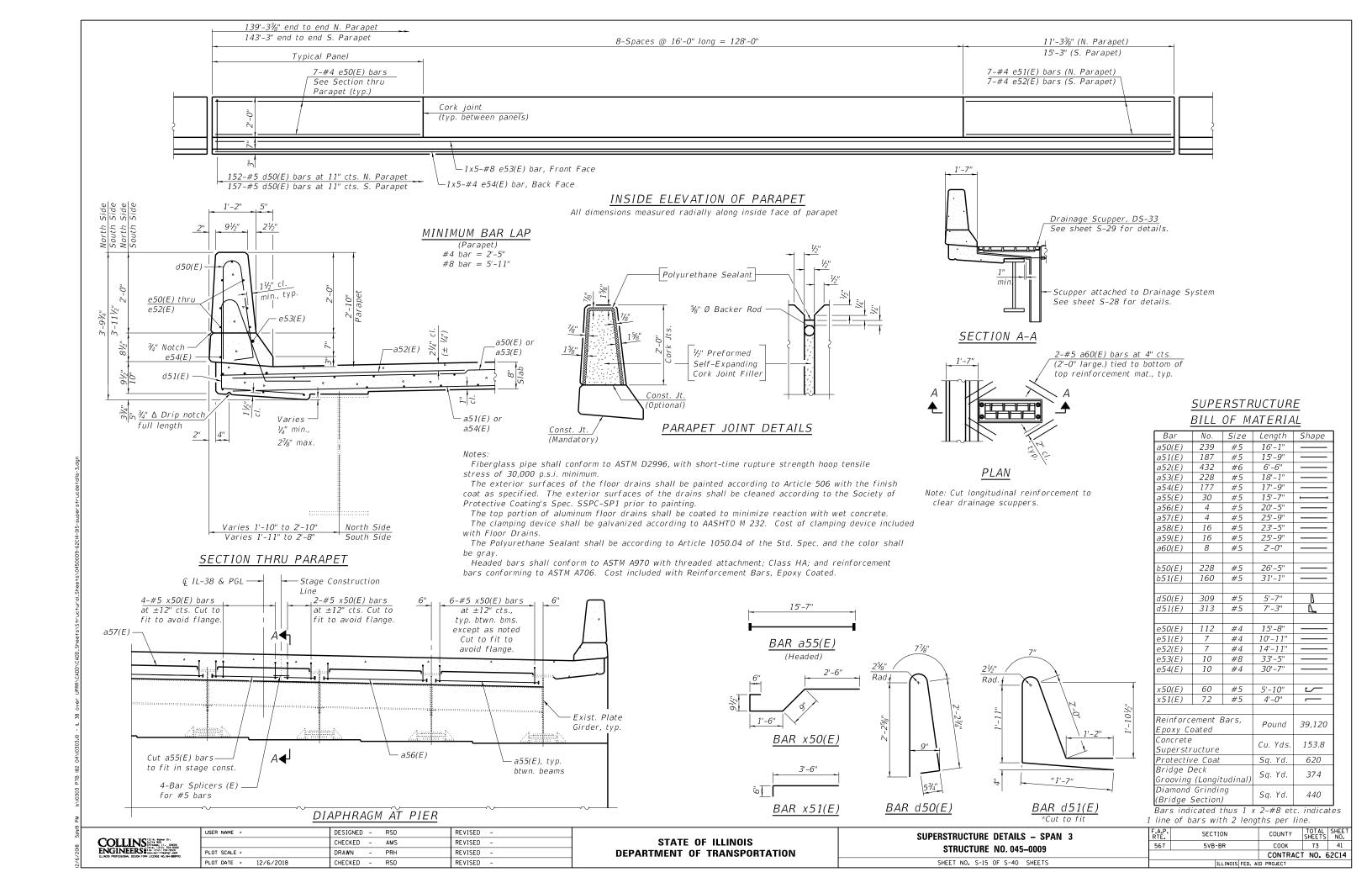
Sheet 1 of 2

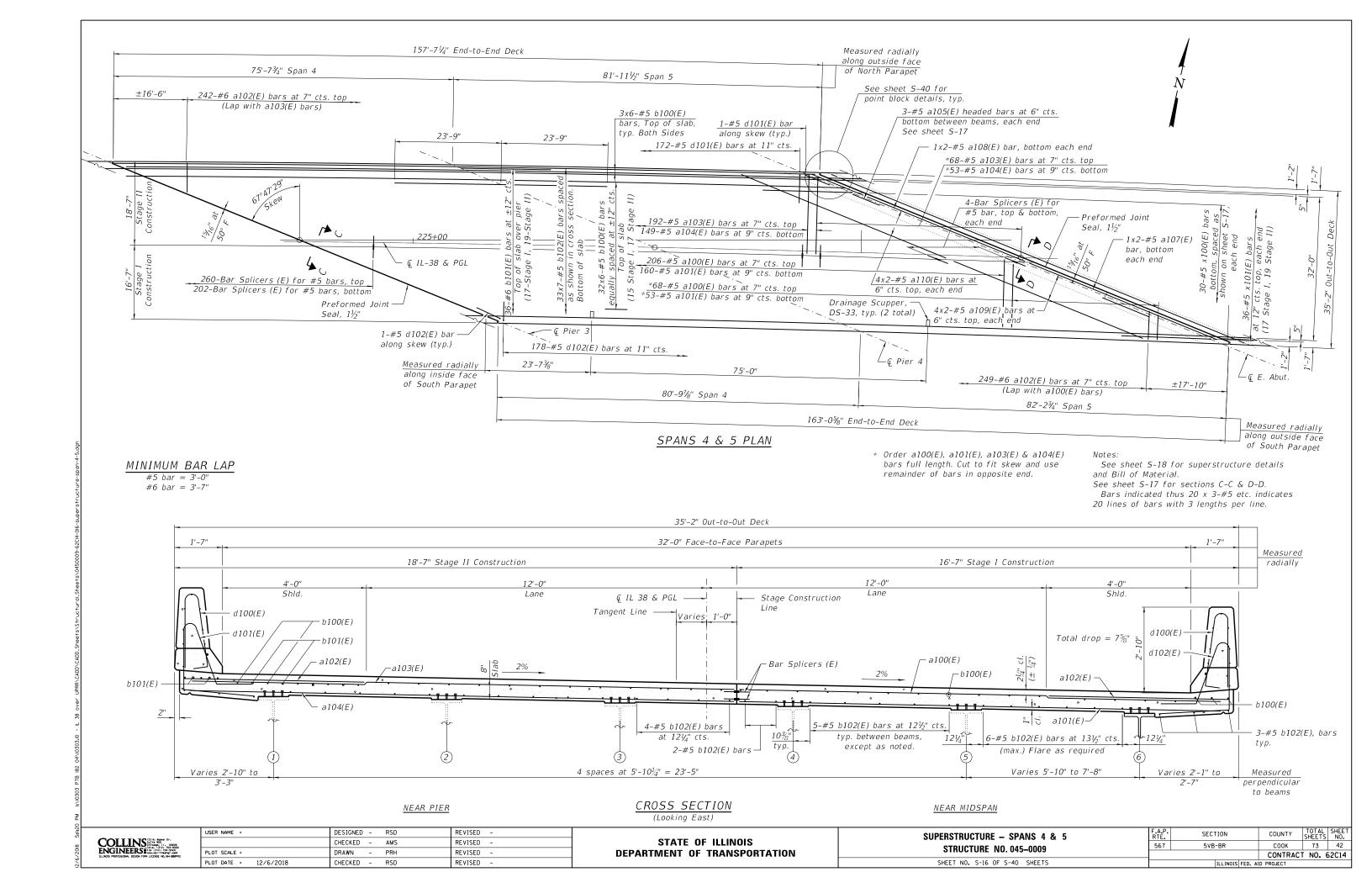


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	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -







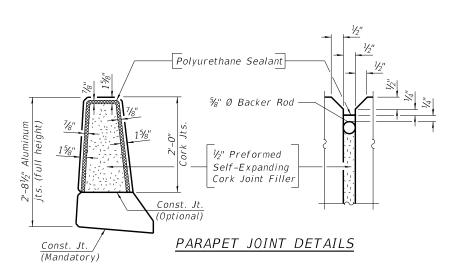


# DIAPHRAGM AT ABUTMENT

(Pier 3 similar, except as noted, see Section D-D)

#### Notes:

See sheet S-18 for superstructure details and Bill of Material. The x100(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



#### Notes

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

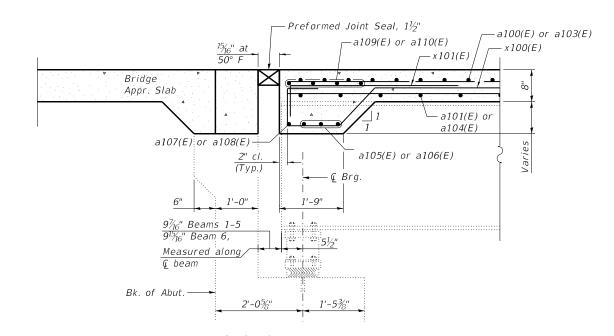
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.

The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete. The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.

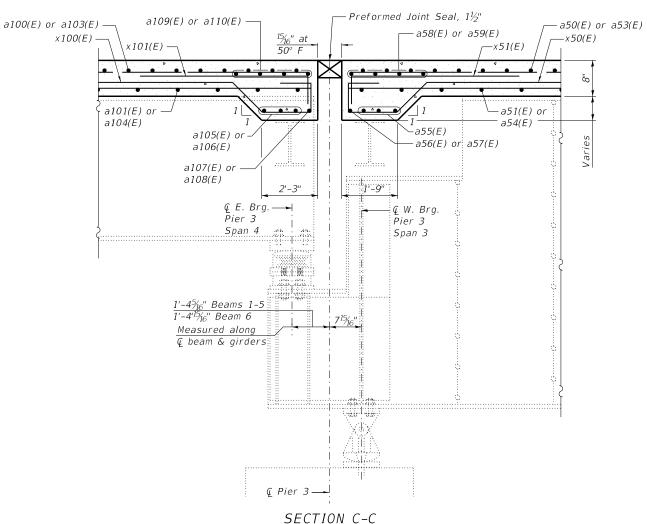
The  $\frac{1}{6}$ " Aluminum sheet shall be ASTM B 209 alloy 3003–H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



<u>SECTION D-D</u> Note: Dimensions measured at Rt. L's

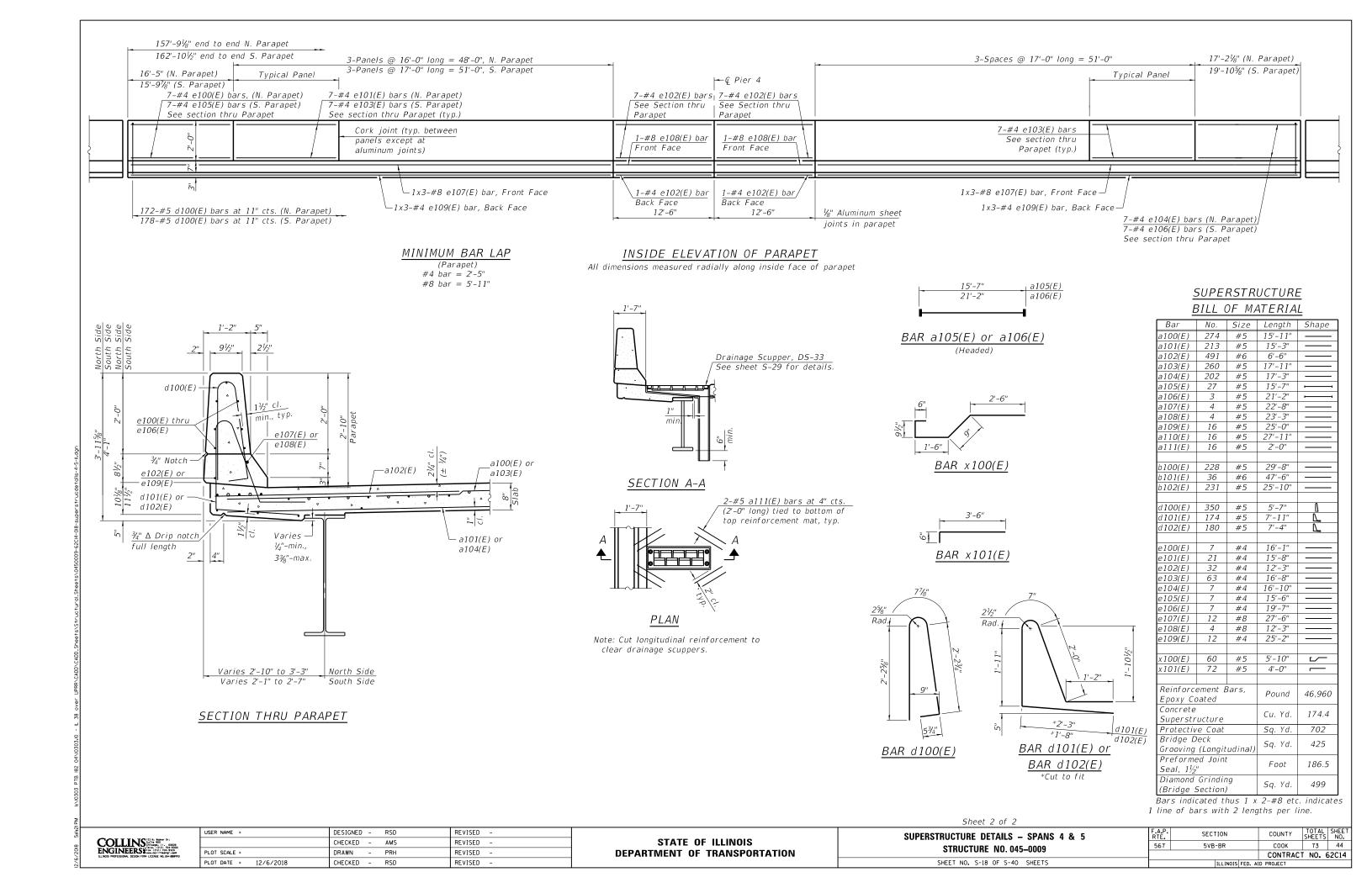


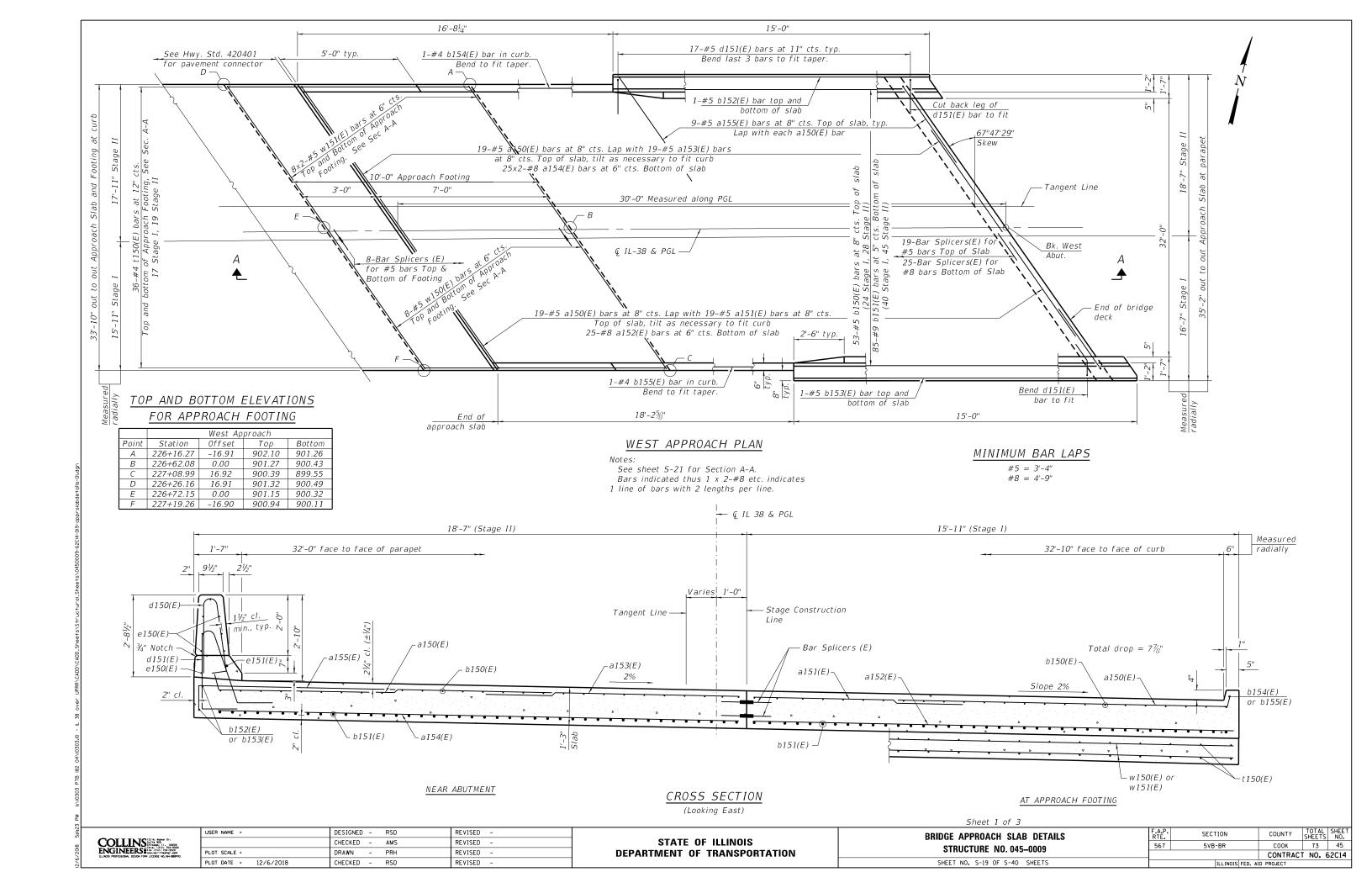
<u>SECTION C-C</u>

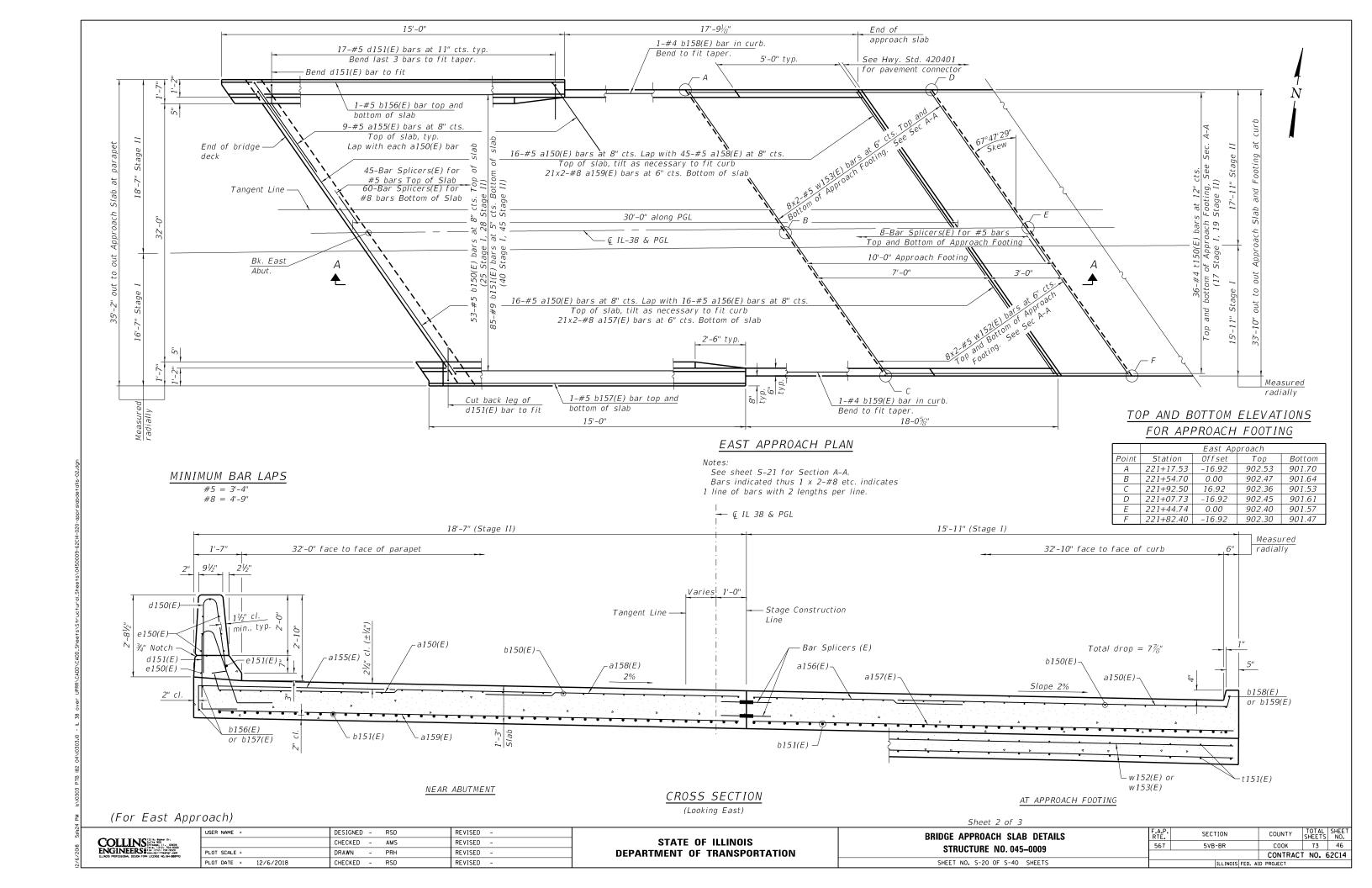
Note: Dimensions measured at Rt. L's

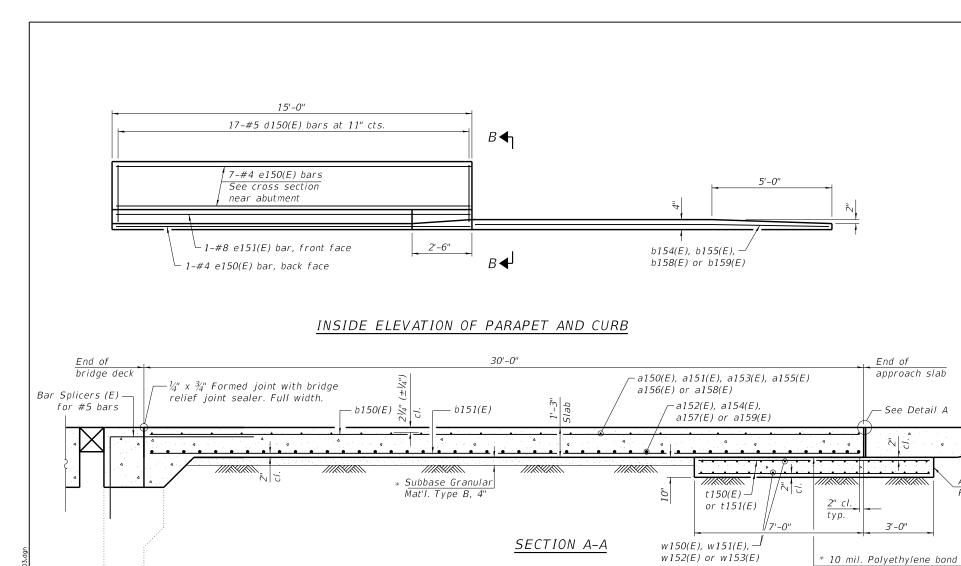
Sheet 1 of 2

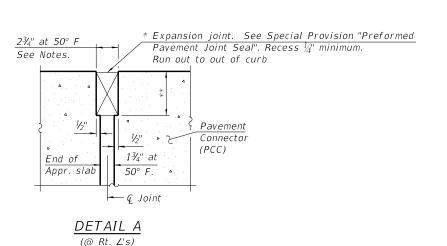
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	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -











\* Cost included with Concrete Superstructure (Approach Slab).

\*\* Per manufacturer recommendations

#### Notes

Footing

breaker on steel trowel finish

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications.

Parapet concrete shall be paid for as Concrete Superstructure.

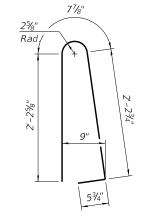
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

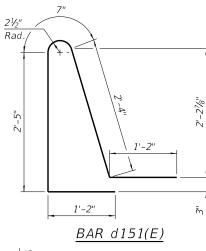
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Approach Slab Removal, see Roadway Plans.



BAR d150(E)

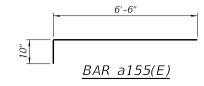




BAR a150(E)

# TWO APPROACHES BILL OF MATERIAL

	BILL U	- MAI	ERIAL		
Bar	No.	Size	Length	Shape	
a150(E)	70	#5	25'-5"		
a151(E)	19	#5	16'-10"		
a152(E)	25	#8	38'-5"		
a153(E)	19	#5	21'-2"		
a154(E)	50	#8	23'-10"		
a155(E)	36	#5	7'-4"		
a156(E)	16	#5	25'-3"		
a157(E)	42	#8	25'-10"		
a158(E)	16	#5	30'-2"		
a159(E)	42	#8	28'-4"		
u133(L)	+ '-	" 0	20 /		
b150(E)	106	#5	29'-8"		
b151(E)	170	#9	29'-8"		
b152(E)	2	#5	11'-2"		
b153(E)	2	#5	13'-4"		
b154(E)	1	#4	16'-4"		
b155(E)	1	#4	17'-11"		
b156(E)	2	#5	13'-1"		
b157(E)	2	#5	10'-4"		
b158(E)	1	#4	17'-5"		
b159(E)	1	#4	17'-9"		
	<u> </u>				
d150(E)	68	#5	5'-7"		
d151(E)	68	#5	7'-8"	ΙĹ	
e150(E)	32	#4	14'-8"		
e151(E)	4	#8	14'-8"		
t150(E)	144	#4	9'-8"		
w150(E)	16	#5	38'-5"		
w151(E)	32	#5	23'-1"		
w152(E)	32	#5	25'-2"		
w153(E)	32	#5	27'-7"		
	Supersti		Cu. Yd.	6.7	
	Superstr	ucture	Cu. Yd.	95.9	
(Approac	h Slab)				
	Structur		Cu. Yd.	20.9	
	ement Bai	´S,	Pound	41,320	
Epoxy Coated					
Protectiv			Sq. Yd.	258	
Bridge Deck Grooving			Sq. Yd.	160	
(Longitud					
	Grinding		Sq. Yd.	188	
(Bridge .	Section)		,		



Sheet 3 of 3

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ENGINEERS % ox 13121 704-9320  ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-866993	PLOT SCALE =	DRAWN - PRH	REVISED -
	PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

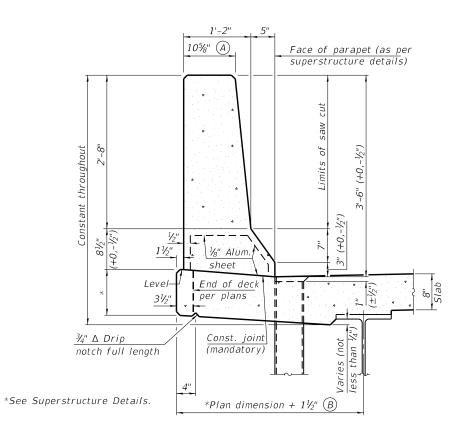
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VIEW B-B

# $\frac{1'-2''}{111\frac{1}{2}\frac{1}{2}} \underbrace{\frac{1'-2''}{111\frac{1}{2}\frac{1}{2}}}_{11\frac{1}{2}\frac{1}{2$

# 34" F SHAPE PARAPET SECTION

(Showing dimensions)



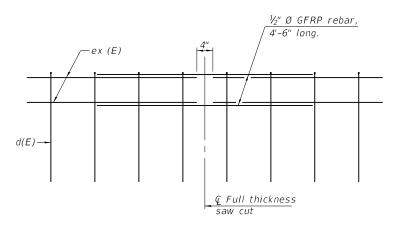
### 42" F SHAPE PARAPET SECTION

(Showing dimensions)

# #3 (E) bar at 11" cts. #4 (E) bar

# SECTION

(34" parapet shown - 42" parapet similar) (Showing reinforcement clearances for slip forming and additional reinforcement bars)



# GFRP REBAR STIFFENING DETAIL

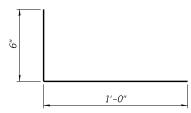
(Place as shown in parapet section at each parapet joint location.)

# GENERAL NOTES

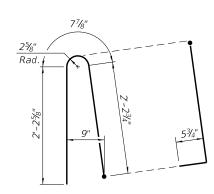
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.

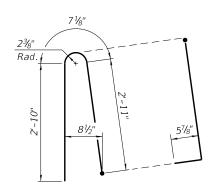


#3 (E) BAR



# ALTERNATE BAR d(E)

(For 34" parapet when conduit is present)



### ALTERNATE BAR d(E)

(For 42" parapet when conduit is present)

# SFP 34-42

2-17-2017

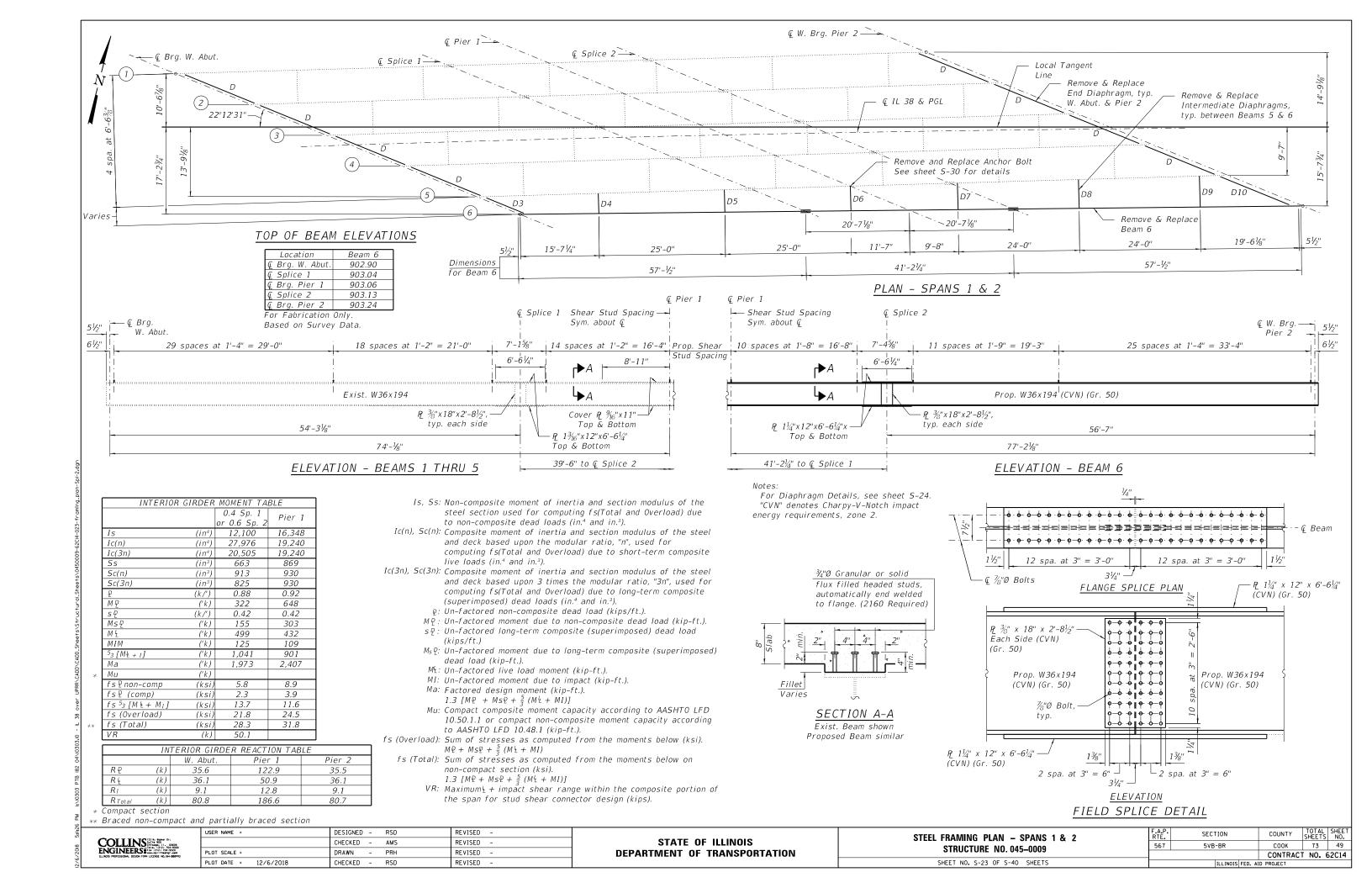
$\sim$	<b>DLLINS</b>	. Tooker Dr.
$\sim$	JLLIIN Jarie	1gp. 11. 60606
EN	GINEERS	. (312) 704-9300 (312) 704-9320
		collinsengr.com
ILLINOIS	PROFESSIONAL DESIGN FIRM LICE	NSE NO. 184-228993

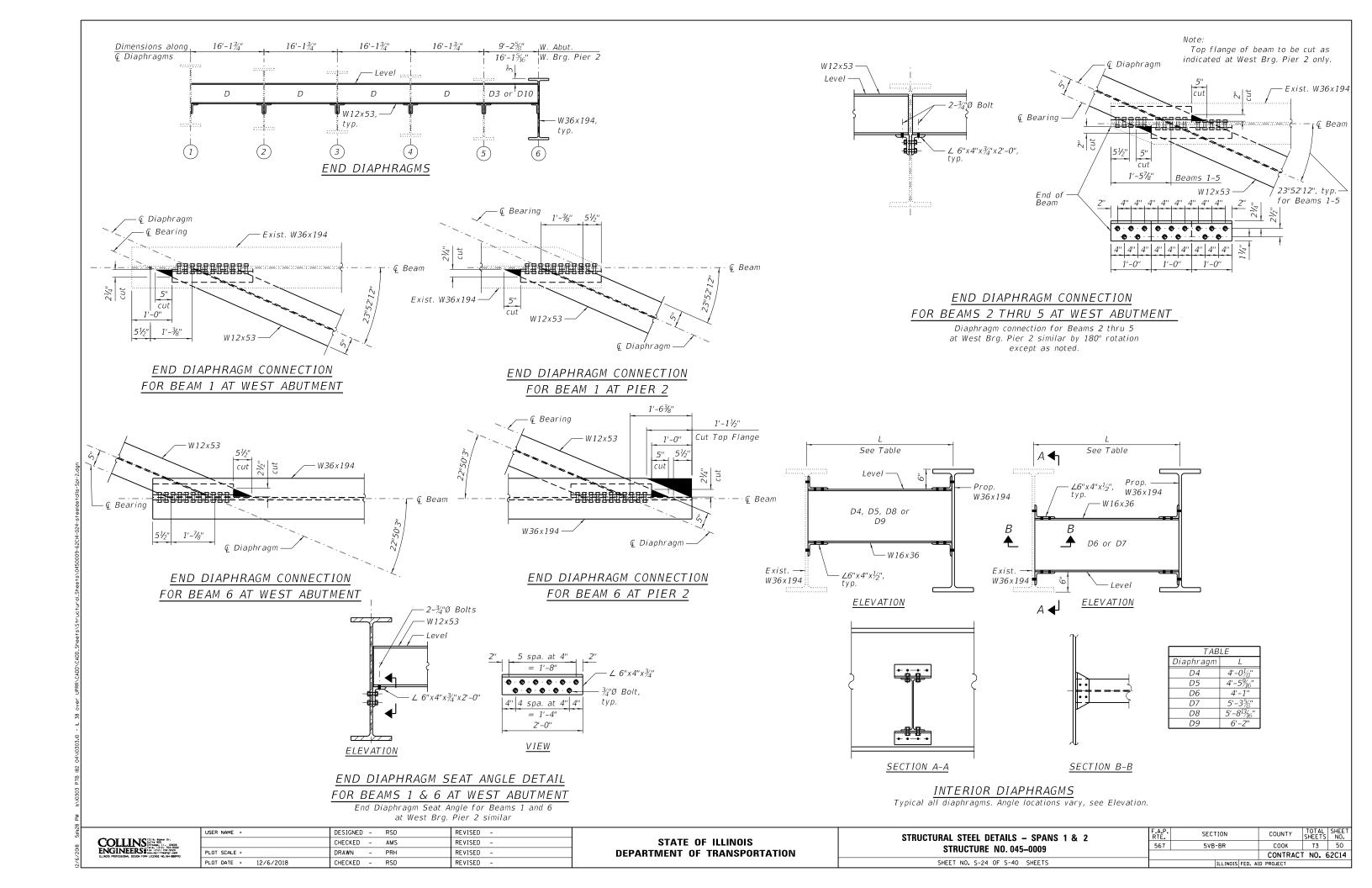
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PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

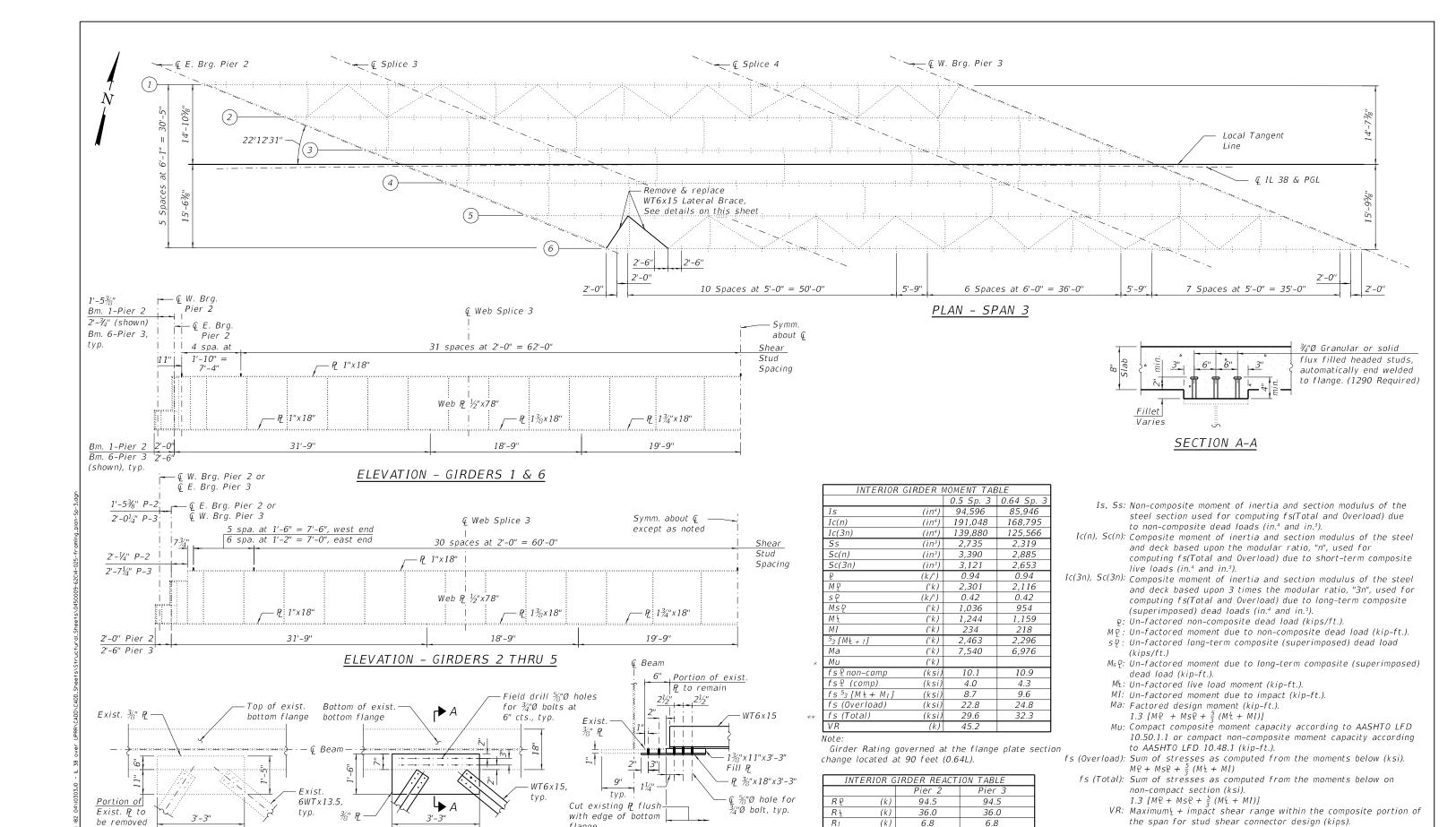
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE S	PARAPET TRUCTURE			OPTION
SHE	ET NO. S-22	OF S-40	SHEETS	

	TILL INDIS FED	AID PROJECT		
		CONTRACT	NO. 6	52C14
567	5VB-BR	соок	73	48
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.







USER NAME : DESIGNED - RSD REVISED CHECKED - AMS REVISED REVISED PLOT DATE = 12/6/2018 CHECKED - RSD REVISED

LATERAL BRACING CONNECTION

PROPOSED PLAN

be removed

COLLINS STATE OF THE STATE OF T

EXISTING PLAN

at 6WT x 13.5

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION A-A

(k)

(k)

RTotal

\* Compact section

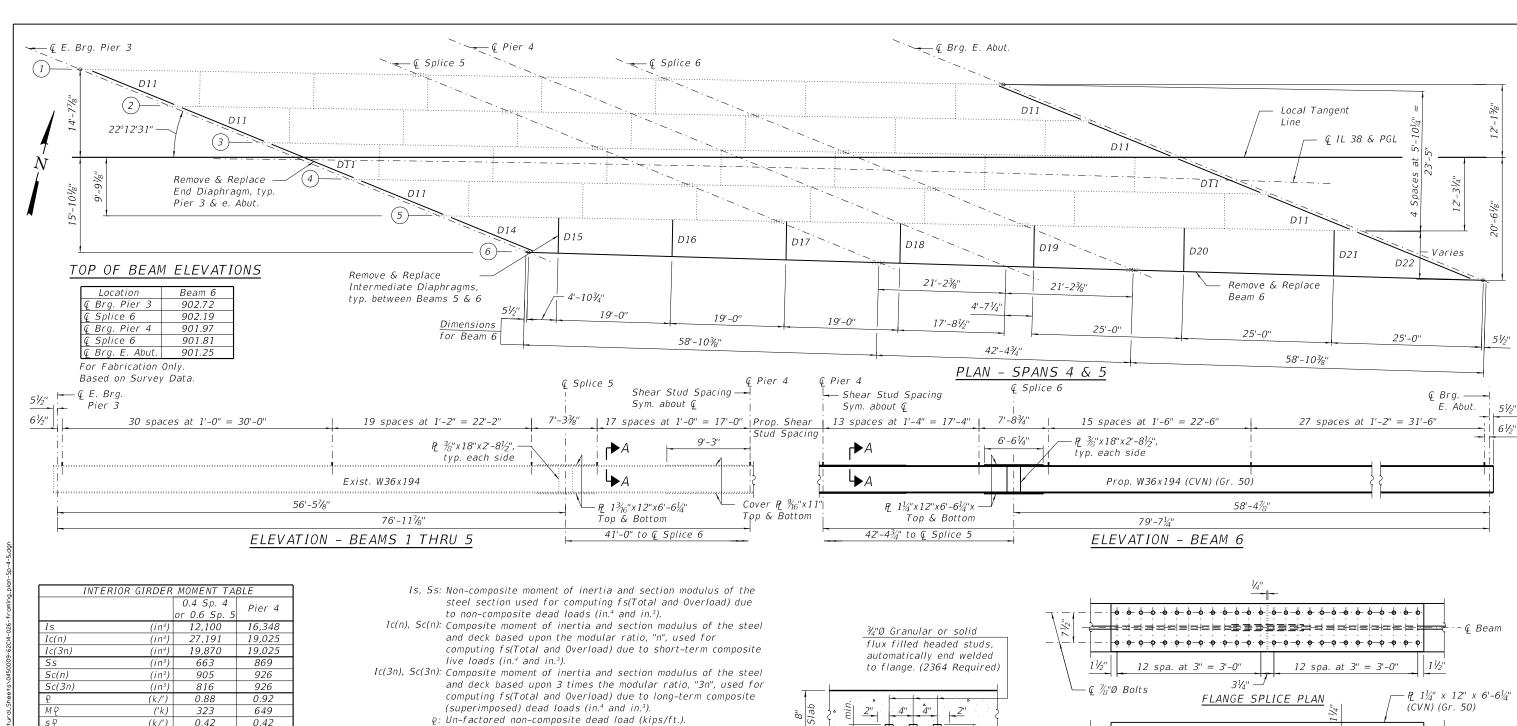
6.8

137 3

\*\* Braced non-compact and partially braced section

6.8 137.3

SECTION COUNTY STEEL FRAMING PLAN - SPAN 3 73 51 567 5VB-BR COOK STRUCTURE NO. 045-0009 CONTRACT NO. 62C14 SHEET NO. S-25 OF S-40 SHEETS

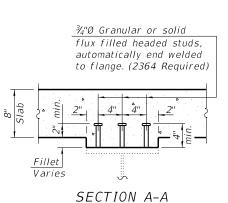


THILITION	OTTOLIN	MOMENT TA	<u> </u>
		0.4 Sp. 4 or 0.6 Sp. 5	Pier 4
Is	(in⁴)	12,100	16,348
Ic(n)	(in⁴)	27,191	19,025
Ic(3n)	(in⁴)	19,870	19,025
Ss	(in³)	663	869
Sc(n)	(in³)	905	926
Sc(3n)	(in³)	816	926
₽	(k/')	0.88	0.92
MР	('k)	323	649
s P	(k/')	0.42	0.42
Ms P	('k)	168	328
ΜŁ	('k)	470	413
MIM	('k)	116	102
<sup>5</sup> 3 [MŁ + 1]	('k)	977	859
Ма	('k)	1,909	2,387
Mu	('k)		
fs₽non-comp	(ksi)	5.8	9.0
fs₽ (comp)	(ksi)	2.5	4.2
fs <sup>5</sup> 3 [M Ł + M <sub>I</sub> ]	(ksi)	13.0	11.1
fs (Overload)	(ksi)	21.3	24.3
fs (Total)	(ksi)	27.6	31.7
VR	(k)	45.1	

INTERIOR GIRDER REACTION TABLE				
		Pier 3	Pier 4	E. Abut.
R₽	(k)	35.6	121.4	35.5
R Ł	(k)	32.5	46.9	32.5
Rı	(k)	8.0	11.6	8.0
RTotal	(k)	76.1	179.9	76.0

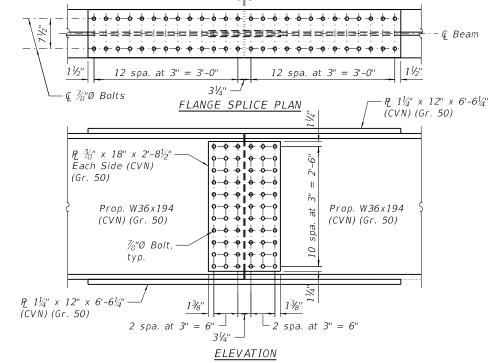
- \*\* Braced non-compact and partially braced section

- MP: Un-factored moment due to non-composite dead load (kip-ft.).
- s₽: Un-factored long-term composite (superimposed) dead load (kips/ft.)
- M<sub>s</sub> P: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- Mt: Un-factored live load moment (kip-ft.).
- MI: Un-factored moment due to impact (kip-ft.).
- Ma: Factored design moment (kip-ft.).
- 1.3  $[MP + MSP + \frac{5}{3}(M^{\frac{1}{4}} + MI)]$
- Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
- fs (Overload): Sum of stresses as computed from the moments below (ksi).  $MQ + MSQ + \frac{5}{5}(ML + MI)$
- fs (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).  $1.3 [MP + MsP + \frac{5}{5} (ML + MI)]$ 
  - VR: Maximum\(\frac{1}{2}\) + impact shear range within the composite portion of the span for stud shear connector design (kips).



Exist. Beam shown Proposed Beam similar

For Diaphragm Details, see sheet S-27. "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.



# FIELD SPLICE DETAIL

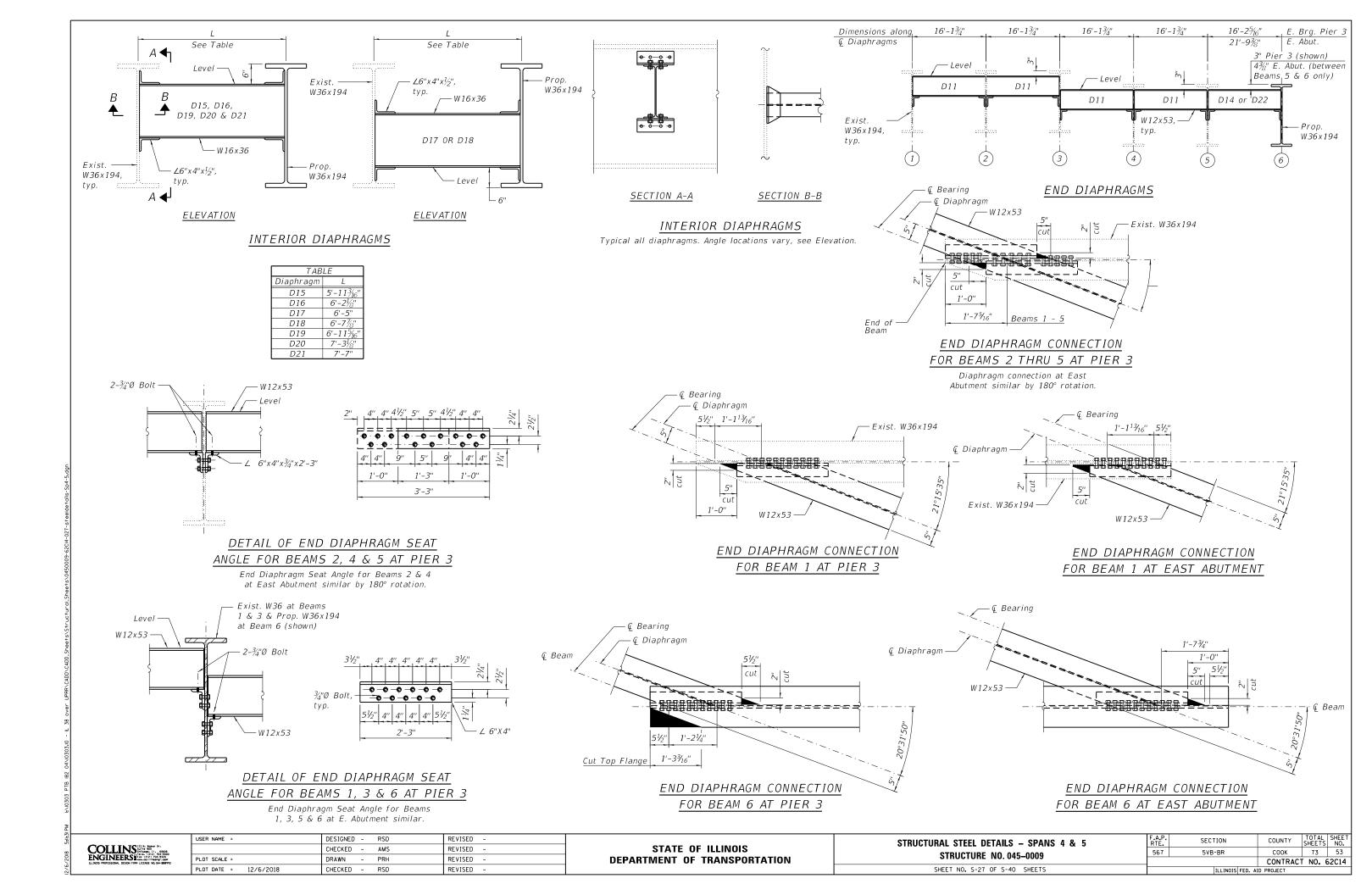
EN	OLLINS 123 N. RODER DV. Suite 900   1. 60606 GINEERS Fox 1312   704-9300 GINEERS Fox 1312   704-9320
ILLINOIS	PROFESSIONAL DESIGN FIRM LICENSE NO. 184-200993

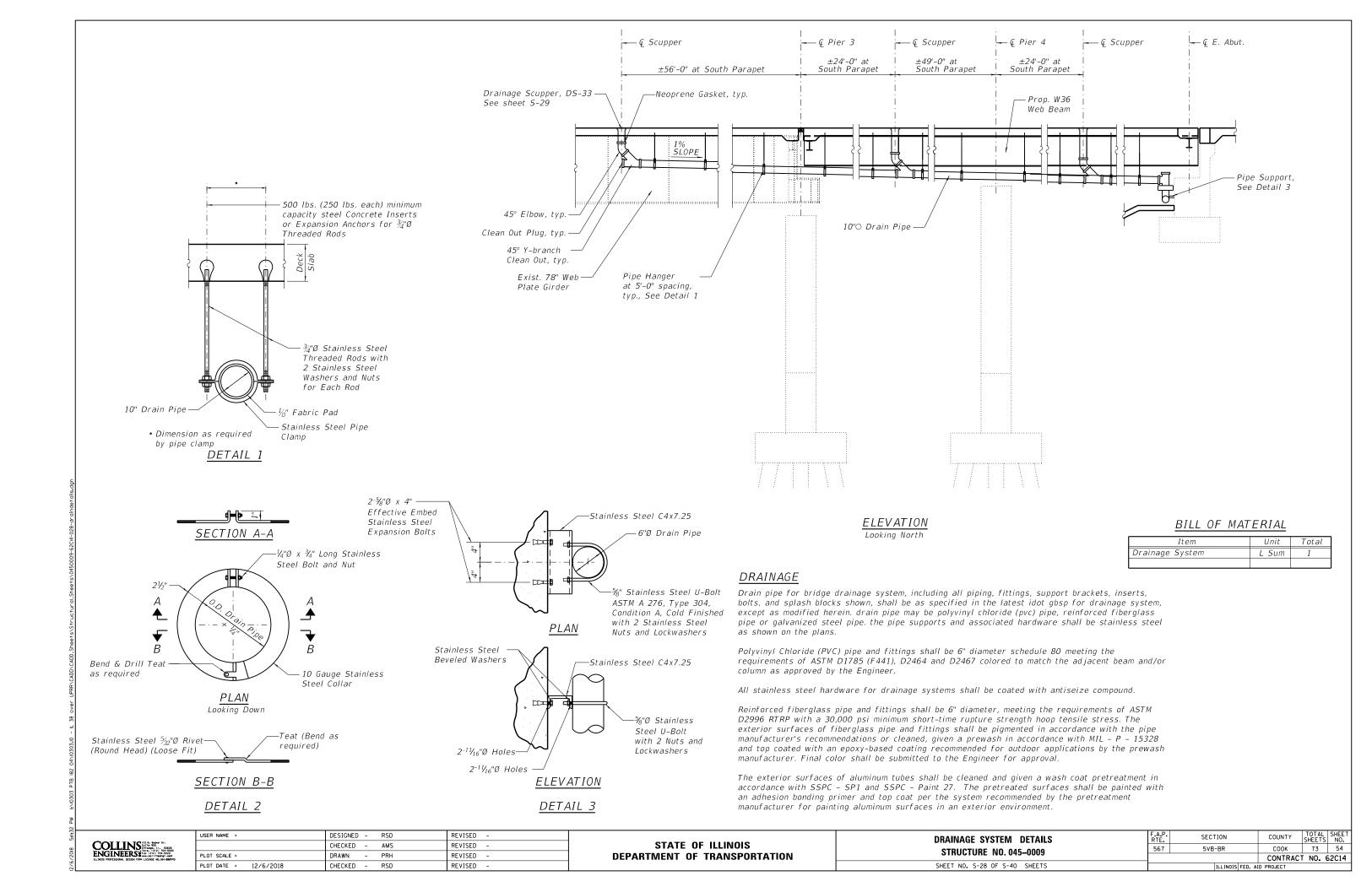
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PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

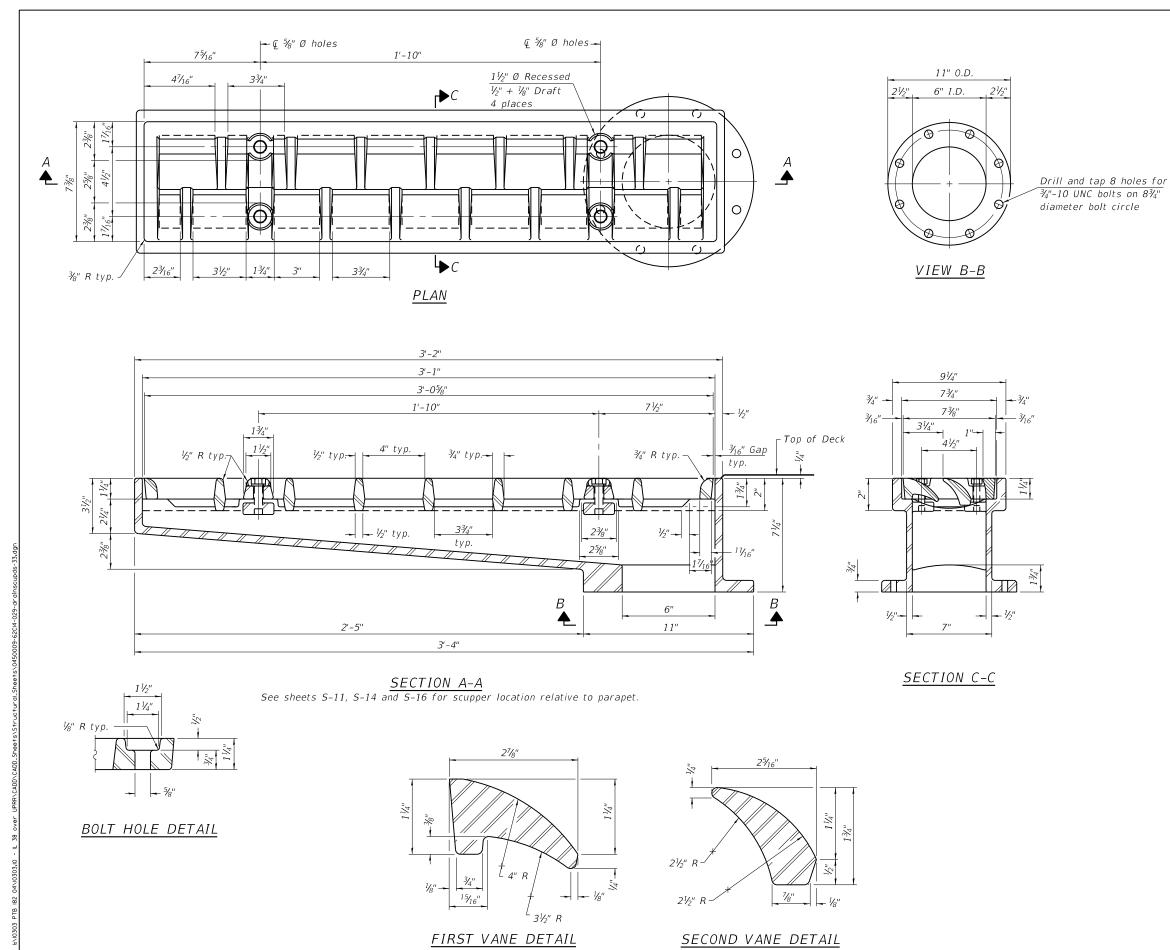
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

STEEL FRAMING PLAN - SPANS 4 & 5 STRUCTURE NO. 045-0009	
SHEET NO. S-26 OF S-40 SHEETS	

SECTION COUNTY 73 52 567 5VB-BR COOK CONTRACT NO. 62C14







Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side

of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

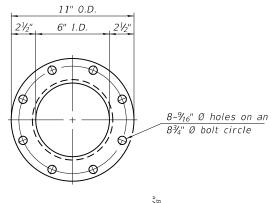
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

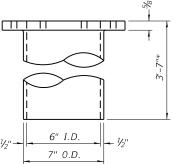
Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-33.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.





# DOWNSPOUT

\*Except for scupper in Span 3. See sheet S-28 for Drainage System details.

# BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-33	Each	6

DS-33

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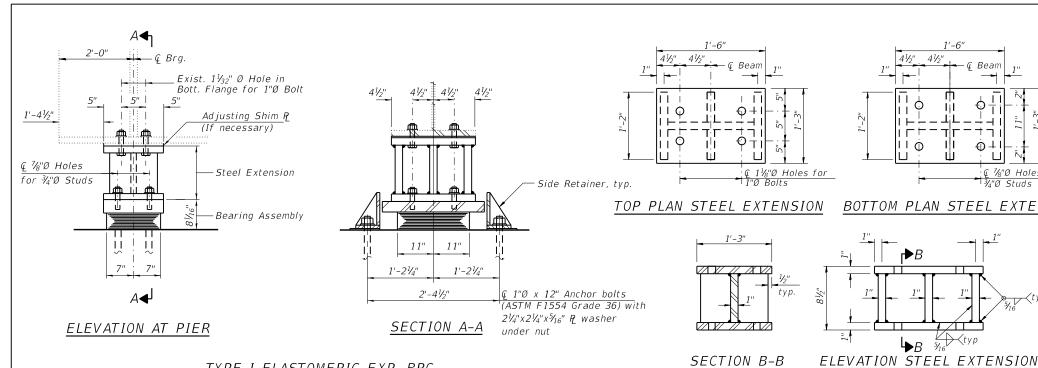
2-17-2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-33
STRUCTURE NO. 045-0009
SHEET NO. S-29 OF S-40 SHEETS

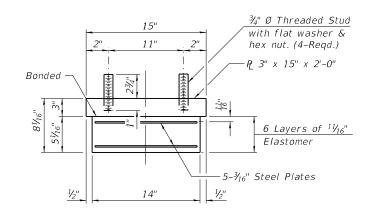
F.A.P. SECTION COUNTY TOTAL SHEETS NO.
567 5VB-BR COOK 73 55

CONTRACT NO. 62C14



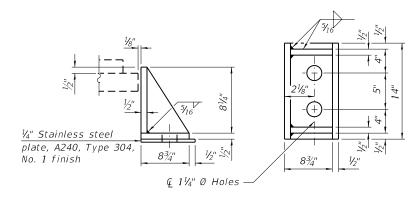
# TYPE I ELASTOMERIC EXP. BRG.

Span 3 Girders at E. Brg. Pier 2 (6 Req'd.)



# BEARING ASSEMBLY

Shim plates shall not be placed under Bearing Assembly.



# SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

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.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Weight of steel extensions, shim plates, and connection bolts are included with Furnishing and Erecting Structural Steel.

The overall depth dimension for the new bearing and steel extension shall match the total depth of the replaced existing bearing. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

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.

# **-**— @ Brg. Bolts 0 $\Diamond$ - Exist. 1"Ø x 12" Anchor Bolts 1'-5"

# ELEVATION AT PIER

### ANCHOR BOLT REPLACEMENT (Beam 5 at Pier 1)

BOTTOM R PLAN

Ó

 $\mathbf{L}_{B}$ 

FABRICATED STEEL EXTENSION

(6 Required)

 $\oplus$  +

BOTTOM PLAN STEEL EXTENSION

्रि 7%"Ø Holes for । ३४"Ø Studs

# Cost included with Jack and Remove Existing Bearing (6 Req'd.) NOTES - JACK AND REMOVE EXISTING BEARINGS

2'-0"

Q W. Brg. —↓

97/16"

Pier 2

├--- Ç E. Brg.

Pier 2

Remove existing bolts,

 $-\frac{1}{8}$ " Lead R

Bolt holes to be reused

-Burn existing anchor bolts flush with

existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

| 1'-5¾" |

⊈ Pier

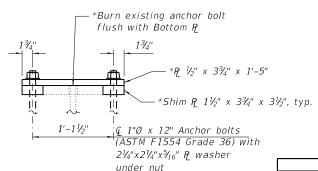
17<sup>15</sup>/<sub>16</sub>'

1. The work shall be done in accordance with the Special Provision "Jack and Remove Existing Bearings."

EXISTING BEARING REMOVAL DETAIL

Girders at E. Brg. Pier 2

- 2. Jacking and removing existing bearings, including top and bottom plates and lead plates, shall be done after deck removal is completed and before the new deck is poured. Minimum Jack = 26 kips. size = 15 tons. R
- 3. The new bearings shall be in place and the jacks shall be lowered before the new deck is poured.



Exist. Bearing

Assembly

# SECTION C-C

\* Cost included with Furnishing and Erecting Structural Steel.

# BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Anchor Bolts, 1"	Each	26
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	1,420

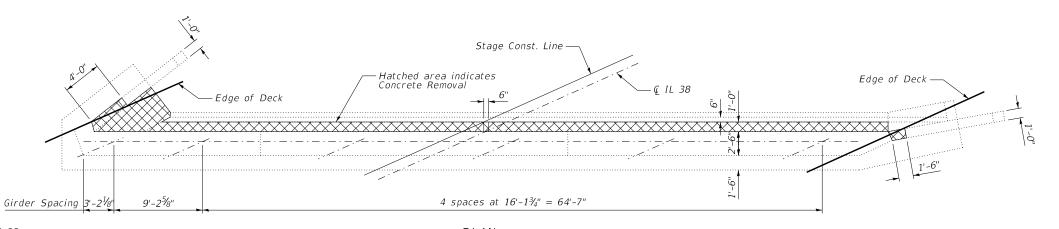
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	CHECKED	-	AMS	REVISED -
PLOT SCALE =	DRAWN	-	PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED	-	RSD	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

BEARING DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 045-0009	567	5VB-BR	COOK	73	56
STRUCTURE NO. 045-0005			CONTRAC	T NO. 6	52C14
SHEET NO. S-30 OF S-40 SHEETS		ILLINOIS FED. AI	D PROJECT		

# BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#6	22'-11"	
h1(E)	8	#6	24'-9"	
Concre	te Rem	oval	Cu. Yd.	6.8
	rcement Coated	Bars,	Pound	580
Concre		pair of th Equal an 5"	Sq. Ft.	24



Notes:

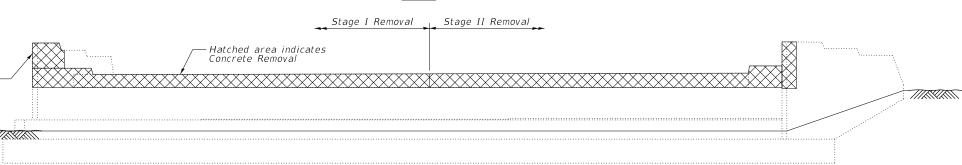
For Section Thru Abutment and Section Thru Wingwall, see sheet S-33. Existing reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.

Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using approved bar splicer or anchorage system. Cost included with Concrete Removal.

For southwest wingwall -modifications, see sheet 5-33

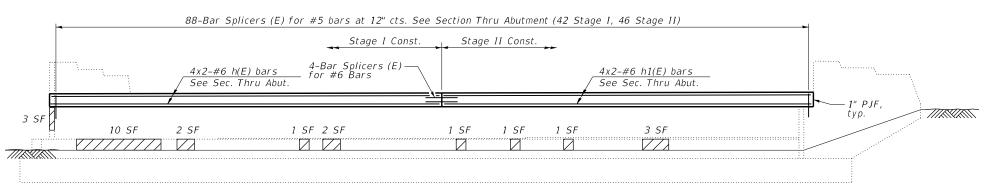
MIN. BAR LAP #6 Bar = 4'-0"





# ELEVATION - REMOVAL

Looking West



# ELEVATION - PROPOSED

Looking West

# LEGEND

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



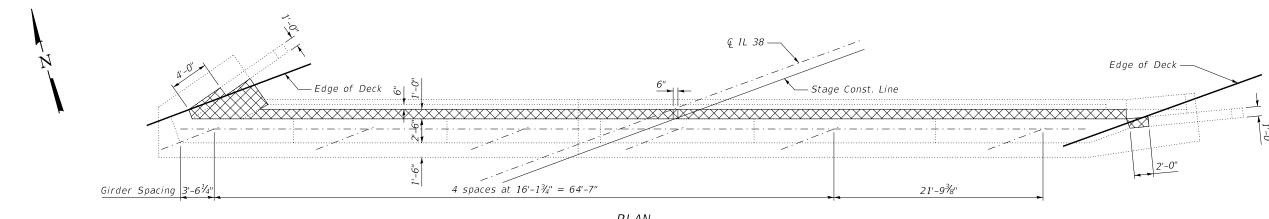
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	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

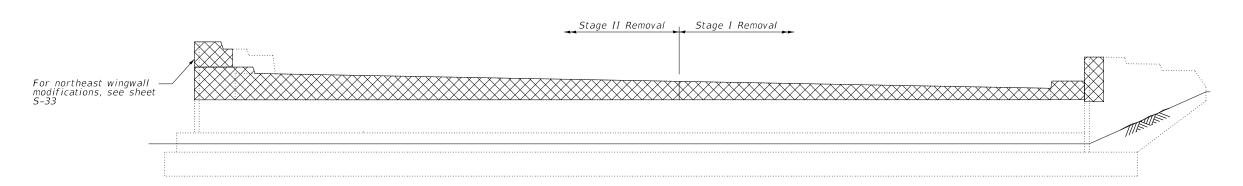
	BUTMENT R TURE NO. 045		
SHEET NO.	S-31 OF S-40	SHEETS	

COUNTY TOTAL SHEET NO.

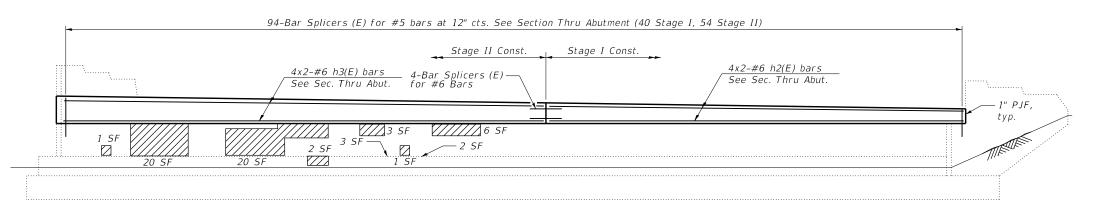
COOK 73 57 SECTION 567 5VB-BR CONTRACT NO. 62C14



PLAN



# ELEVATION - REMOVAL



# BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	8	#6	27'-3"	
h3(E)	8	#6	27'-4"	
Concre	te Rem	oval	Cu. Yd.	8.5
	rcemen Coated	Bars,	Pound	660
Structural Repair of Concrete Depth Equal		Sq. Ft.	58	

# ELEVATION - PROPOSED

MIN. BAR LAP #6 Bar = 4'-0"

For Section Thru Abutment and Wingwall, see sheet S-33.
Existing reinforcement shall be cleaned and incorporated into new construction. Cost included in Concrete Removal.

Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using approved bar splicer or anchorage system. Cost included with Concrete Removal.

# LEGEND

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

COUNTY TOTAL SHEET NO.

COOK 73 58

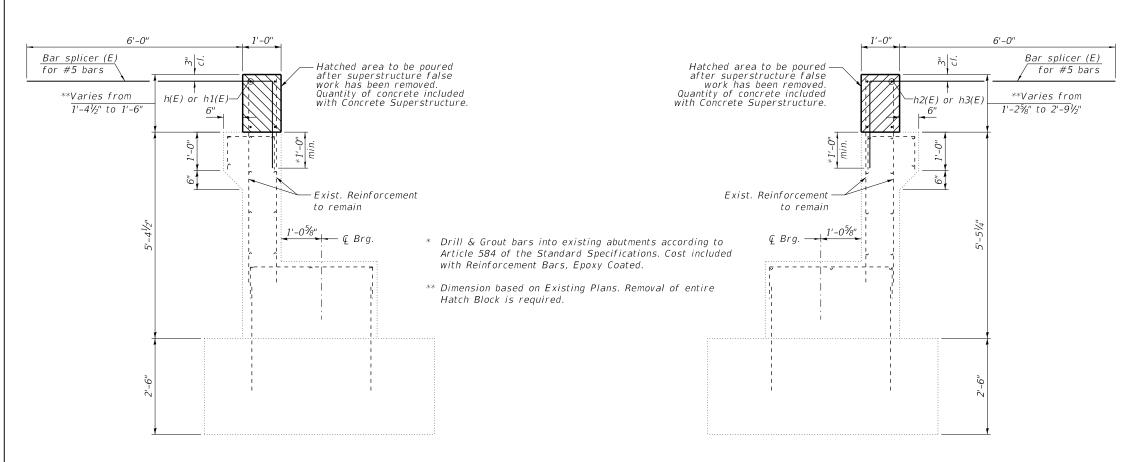
CONTRACT NO. 62C14



USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

EAST ABUTMENT REPAIRS	F.A.P. RTE.	SECTION
STRUCTURE NO. 045-0009	567	5VB-BR
3111001011L 140. 043-0003		
SHEET NO. S-32 OF S-40 SHEETS		ILLINOIS FED. AI

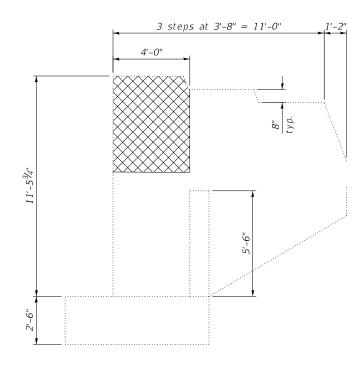


# SECTION THRU WEST ABUTMENT

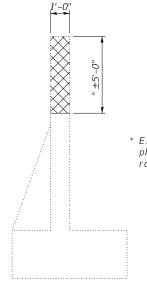
# 3 steps at 3'-8" = 11'-0" 4'-0" 4'-0" \$\frac{1}{2}\f

SOUTHWEST WINGWALL ELEVATION

# SECTION THRU EAST ABUTMENT



NORTHEAST WINGWALL ELEVATION



\* Estimated removal height based on existing plans. Removal required to accomodate roach slab.app

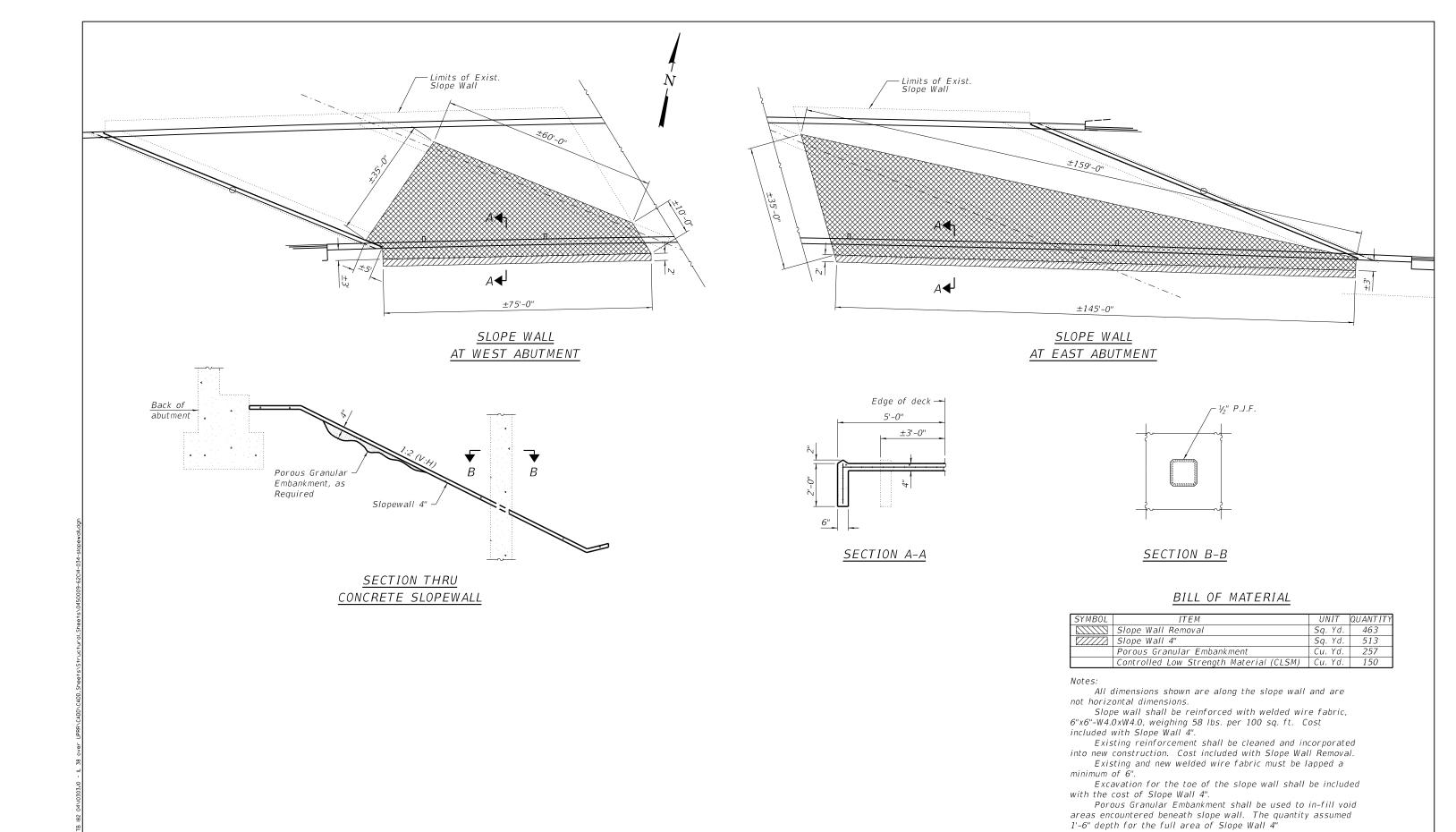
SECTION THRU WINGWALL

~	THE TAX TO 123 N. Form Dr.
	DLLINS 5177 900 11. 60606
EN	GINEERS (1312) 704-9300
	PROFESSIONAL DESIGN FIRM LICENSE NO. 184-200993

USER NAME =	DESIGNED -	RSD	REVISED -
	CHECKED -	AMS	REVISED -
PLOT SCALE =	DRAWN -	PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	RSD	REVISED -

STATE	: OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

ABUTMENT DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 045-0009	567	5VB-BR	COOK	73	59
			CONTRACT	NO. 6	52C14
SHEET NO. S-33 OF S-40 SHEETS		ILLINOIS FED. A	D PROJECT		

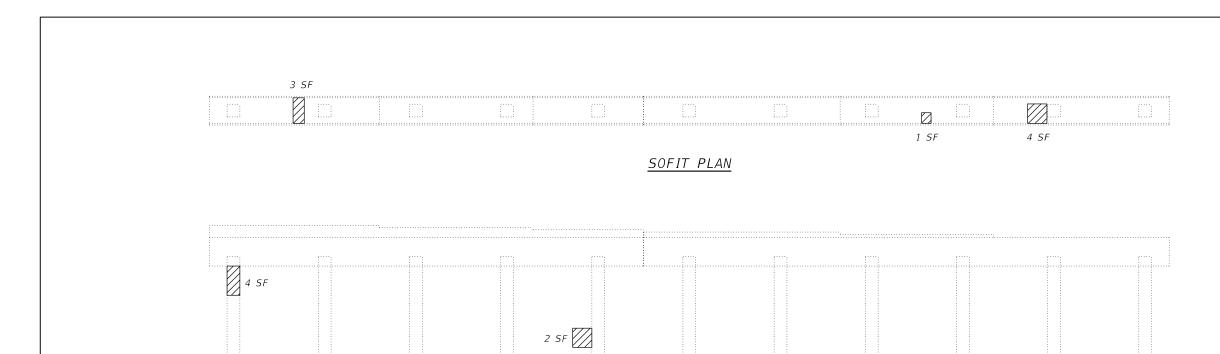


	USER NAME =	DESIGNED - RSD	REVISED -		SLOPEWALI
COLLINS 123 N. Teaser Sv.  COLLINS 123 N. Teaser Sv.  Confessor 11. 66666  ENGINEERS 2 fox (3)21 704-9300  ENGINEERS 2 fox (3)21 704-9300		CHECKED - AMS	REVISED -	STATE OF ILLINOIS	
ENGINEERS 2 fox: 33121 704-9320  ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-888993	PLOT SCALE =	DRAWN - PRH	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTUI
	PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -		SHEET NO. S-

VALL REPAIR DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CTURE NO. 045-0009	567	5VB-BR	соок	73	60
GIONE NO. 043-0003			CONTRAC	T NO. 6	52C14
). S-34 OF S-40 SHEFTS	THE INDIS EED AID PROJECT				

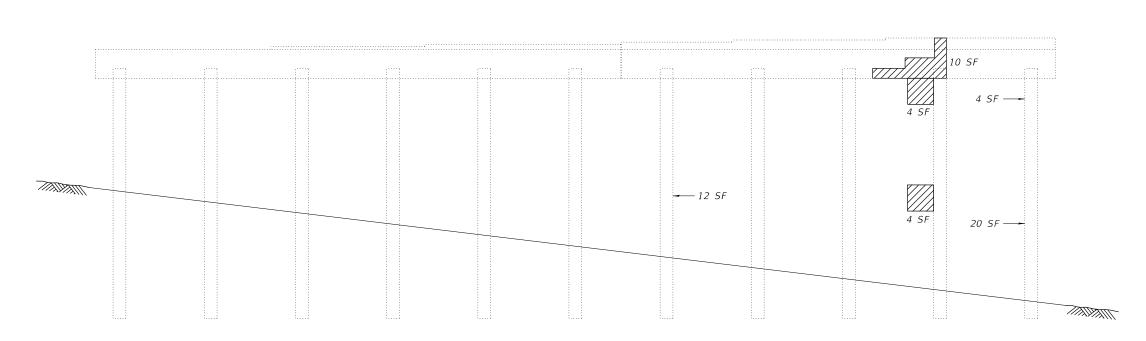
Portions of existing slope wall to remain shall be drilled and Controlled Low Strength Material placed beneath to ensure full bearing. A nominal quantity of 75 cu. yd. was assumed at

each slope wall.



2 SF

# PIER 1 ELEVATION Looking West



# BILL OF MATERIAL

ITEM		QUANTITY	
Structural Repair of Concrete Depth Equal to or Less Than 5"	Sa Et	92	
Depth Equal to or Less Than 5"	3q. 1 t.	02	

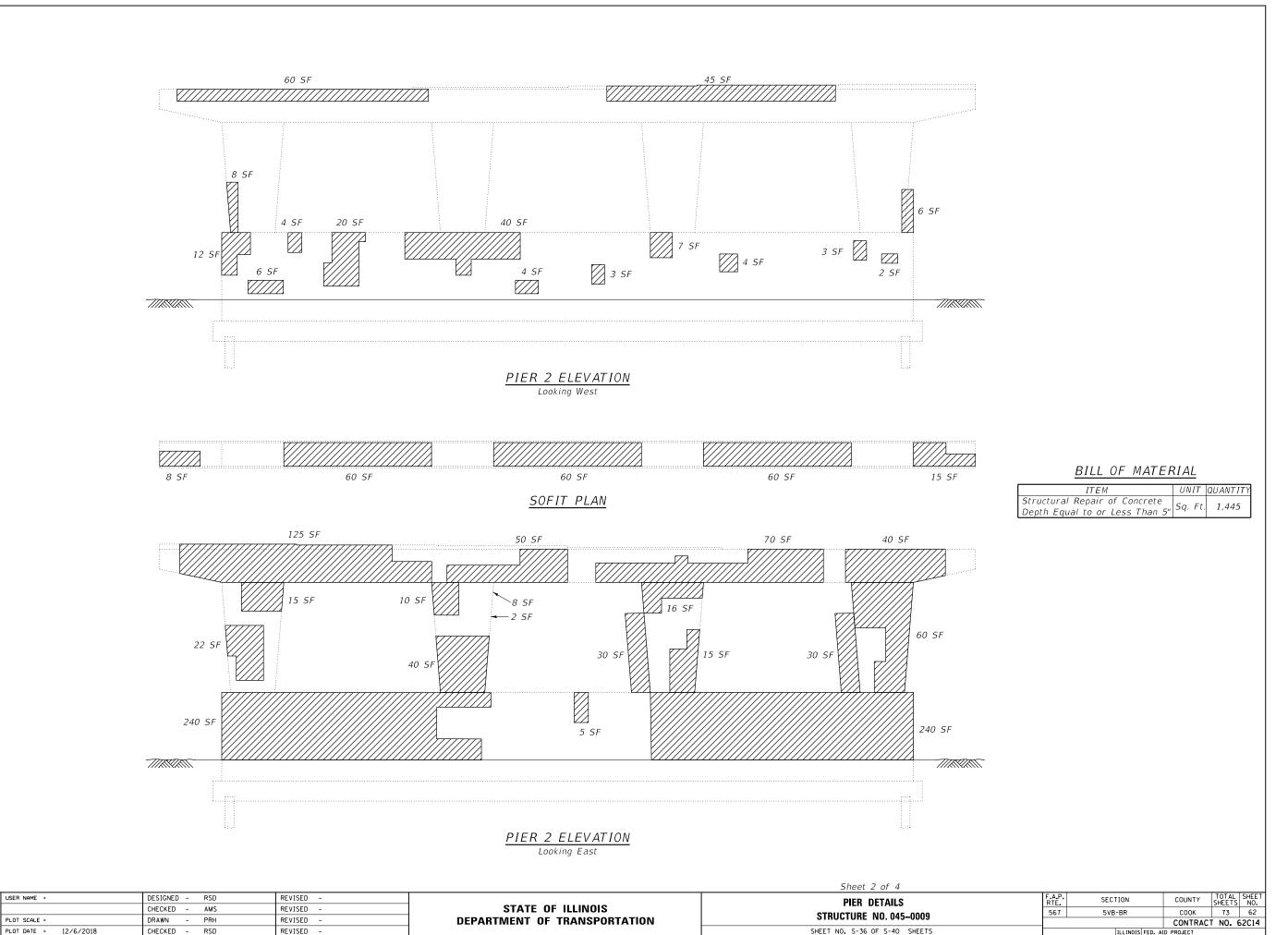
PIER 1 ELEVATION

Looking East

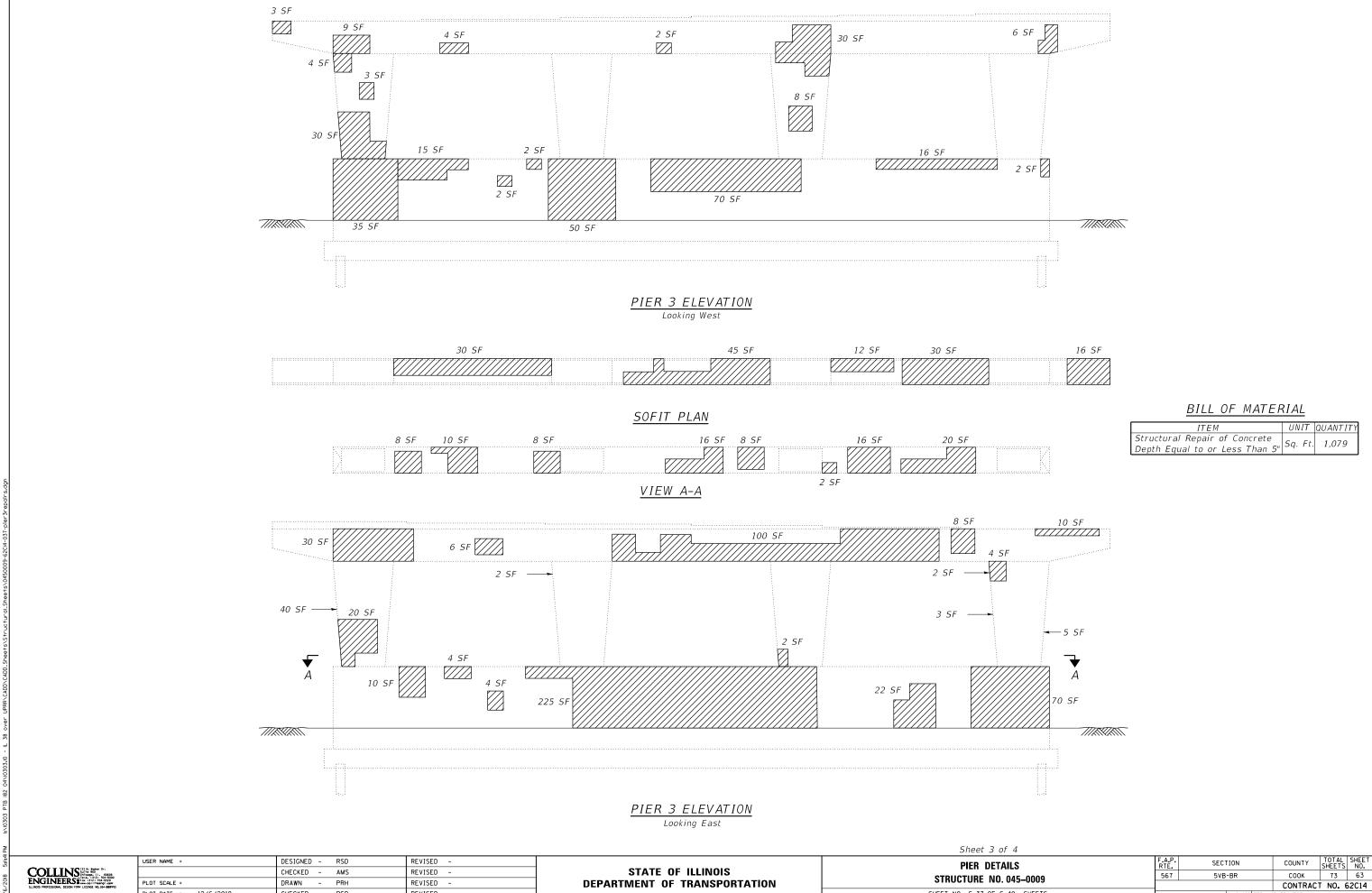
COLLINS (13.1% to 200° for 1.1% to 200°

12 SF

7118



COLLINS 123 % 8000 for the control of the control o



**DEPARTMENT OF TRANSPORTATION** 

SHEET NO. S-37 OF S-40 SHEETS

COLLINS (12) No. 1000 or 0. (10) COLLINS (12) No. 1000 or 0. (13) COLUMN (13)

DRAWN

CHECKED - RSD

PLOT DATE = 12/6/2018

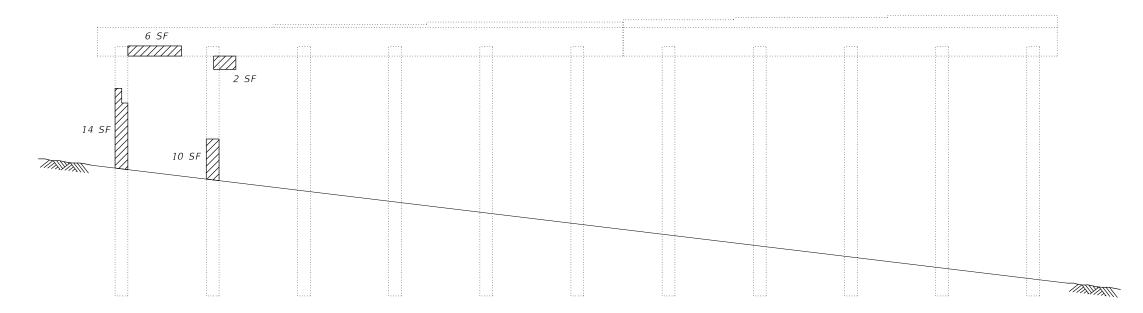
REVISED -

REVISED -

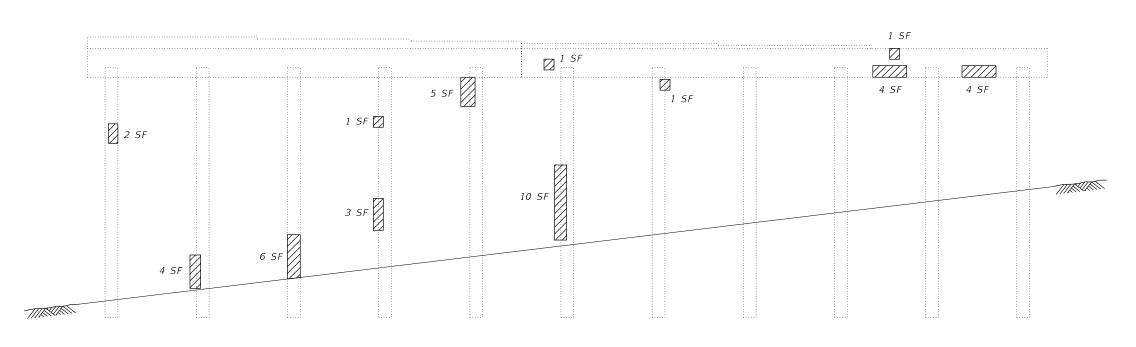




# SOFIT PLAN



# PIER 4 ELEVATION Looking West



# BILL OF MATERIAL

ITEM		QUANTITY
Structural Repair of Concrete Depth Equal to or Less Than 5"	Sa. Ft.	0.1
Depth Equal to or Less Than 5"	3q. 1 t.	91

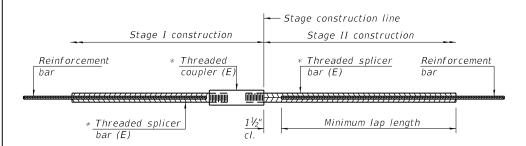
# PIER 4 ELEVATION Looking East

ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-888993
ENGINEERS (1312 704-350)  ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 1814-880913

USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

Sheet 4 of 4					
PIER DETAILS	RTE. SECTION COUNTY SHEETS I	SHEET NO.			
STRUCTURE NO. 045-0009	567	5VB-BR	COOK	73	64
			CONTRAC	T NO. 6	52C14
SHEET NO. S-38 OF S-40 SHEETS		ILLINOIS FED. A	D PROJECT		

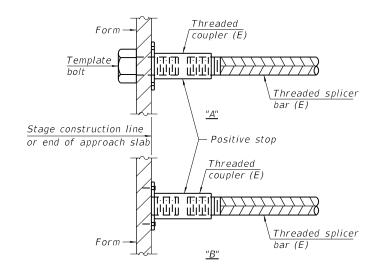


# STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

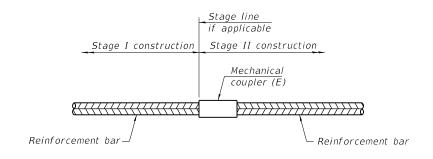
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck - Spans 1-2	#5	475	3'-0"
Deck - Span 3	#5	421	3'-0"
Deck - Spans 4-5	#5	478	3'-0"
Approach Footings	#5	32	3'-0"
Approach Slabs	#5	35	3'-4"
Approach Slabs	#8	46	4'-9"
Abutments	#6	8	4'-0"



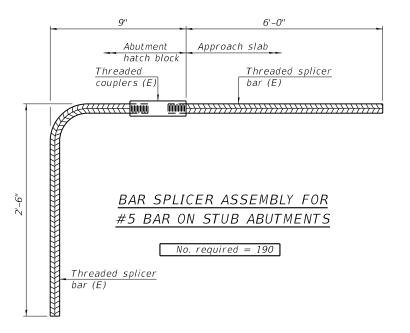
# INSTALLATION AND SETTING METHODS

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



# STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



# NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

$\sim$	TTTLTC123 N. Tooker Sr.
u	
ENT	JLLII Schrödin 11. 60606 GINEERS 2 for (312) 704-9300
EN	JINEEKS 2 vvv. cel linearor .com
THE THOUS	PROFESSIONAL DESIGN FIRM LICENSE NO. 184-888993

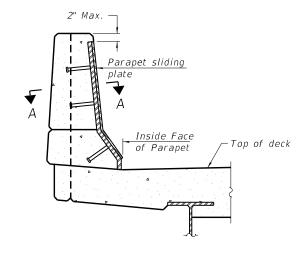
USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

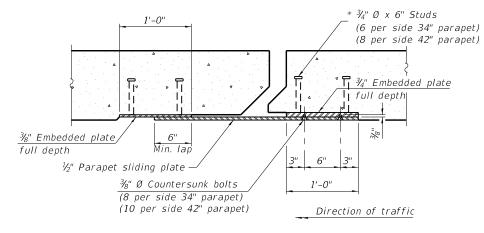
BAR	SPLICER	ASSEMBLY A	AND MEG	HANICAL	SPLICER	DETAILS	F.A.P. RTE.
		STRUCTI	IRE NO	045-0009			567
		31110011	UIIL INU.	743-0003			
		SHEET NO. :	S-39 OF S-	40 SHEETS			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
567	5VB-BR		соок	73	65
			CONTRACT	NO. 6	52C14
	ILLINOIS FE	D. AII	PROJECT		

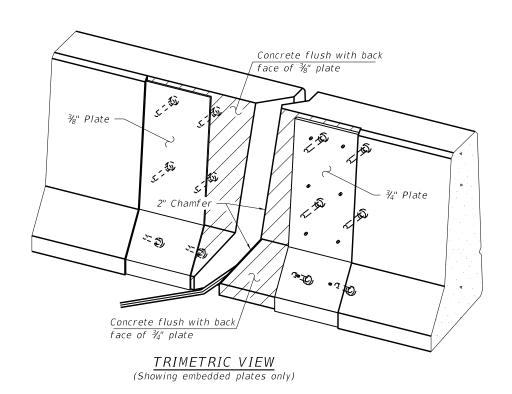
PLAN AT PARAPET



ELEVATION AT PARAPET



# SECTION A-A



Notes:

The manufacturer's recommended installation methods shall be followed.

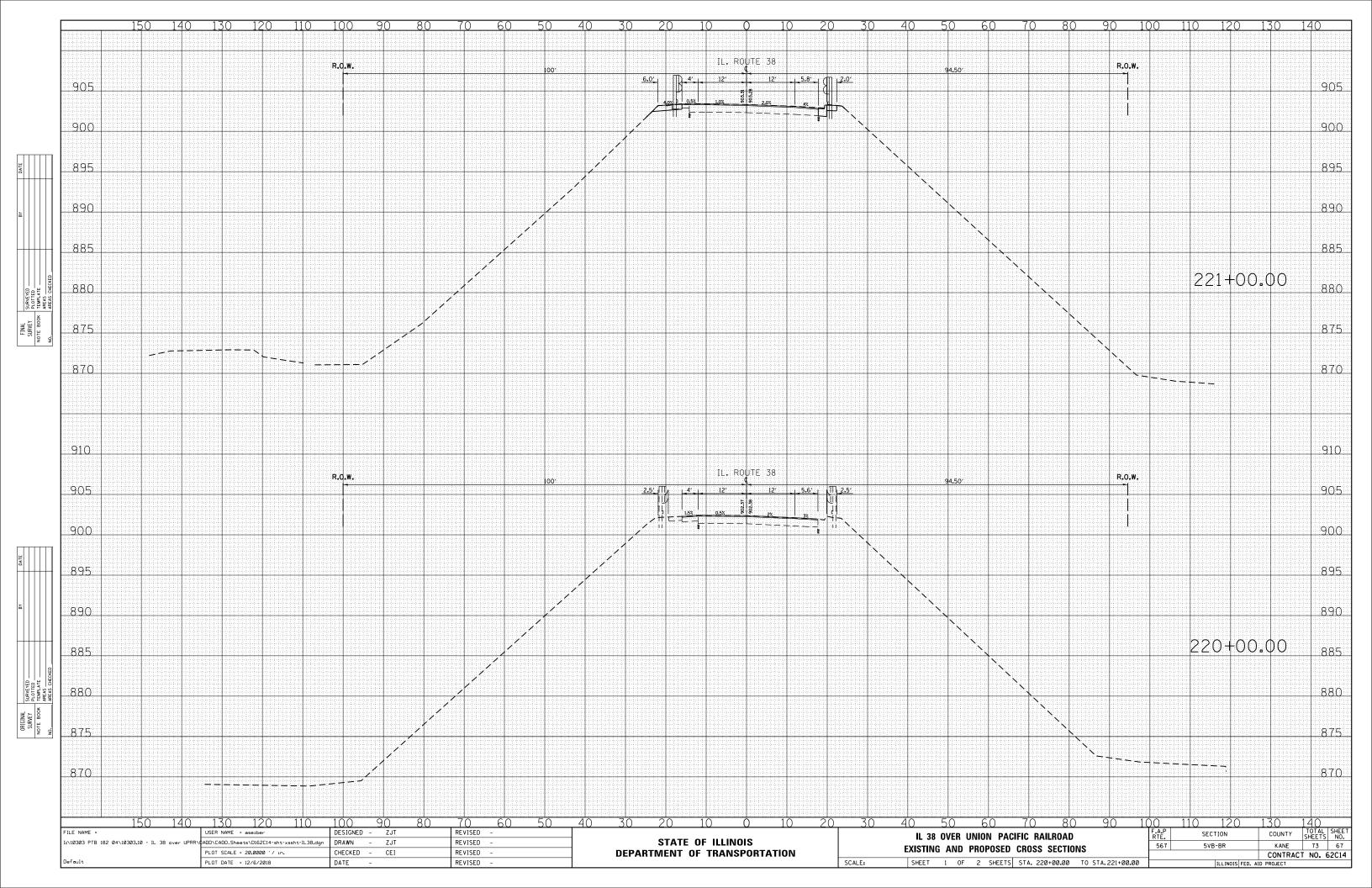
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Seal of the specified thickness.

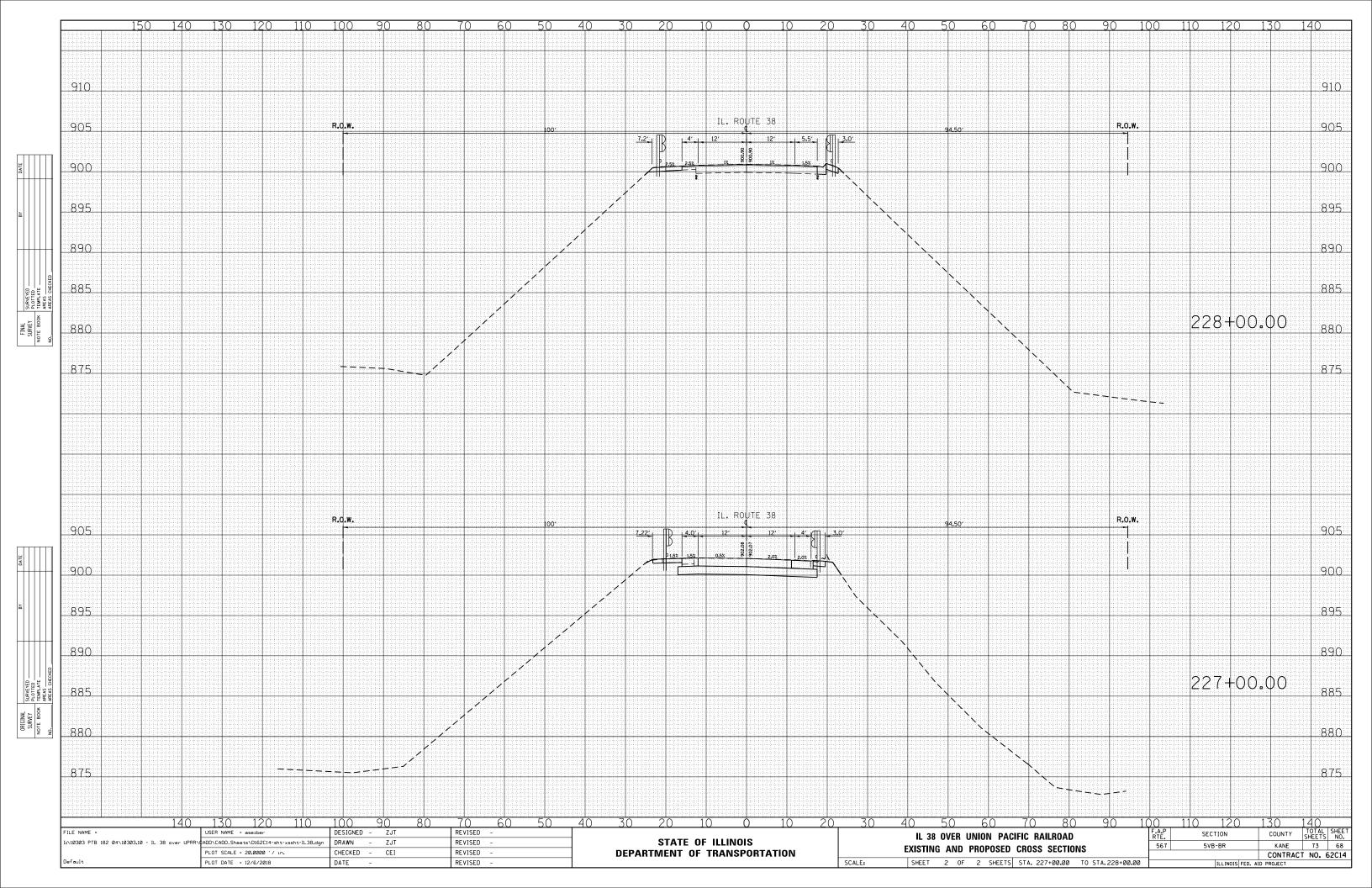
34" F-shape barrier shown, 42" F-shape similar as noted.

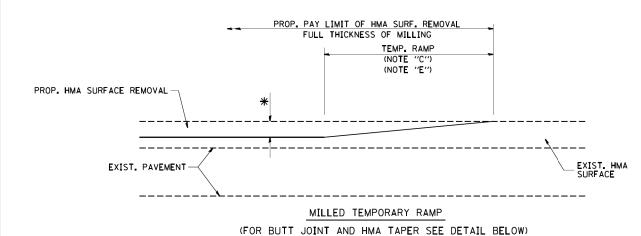
COLLINS 123 h. how for COLLINS 123 h. how for

USER NAME =	DESIGNED - RSD	REVISED -
	CHECKED - AMS	REVISED -
PLOT SCALE =	DRAWN - PRH	REVISED -
PLOT DATE = 12/6/2018	CHECKED - RSD	REVISED -

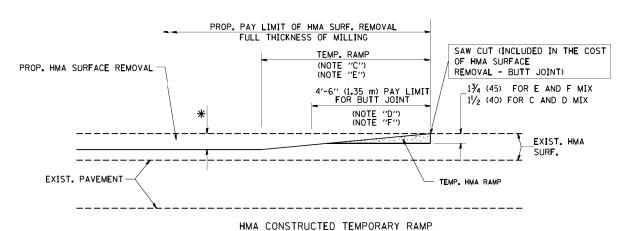
PARAPET DETAILS AT PREFORMED JOINT SEAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 045-0009		5VB-BR	COOK	73	66
SINUCIUNE NO. 043-0003			CONTRACT	NO. 6	52C14
SHEET NO. S-40 OF S-40 SHEETS		ILLINOIS FED. AI	D PROJECT		







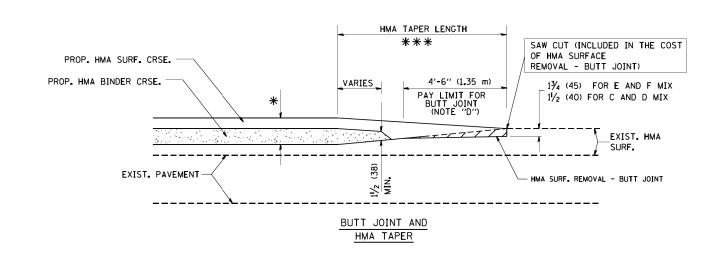
# OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

TYPICAL TEMPORARY RAMP

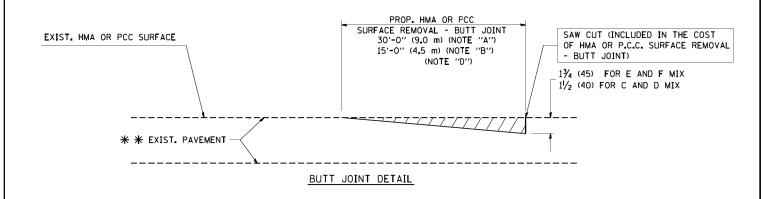
# OPTION 2

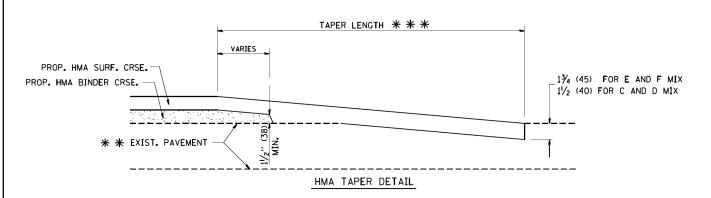


# TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





# 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.

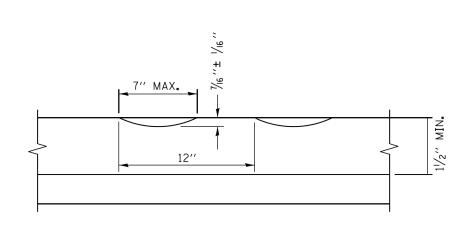
\* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

# BASIS OF PAYMENT:

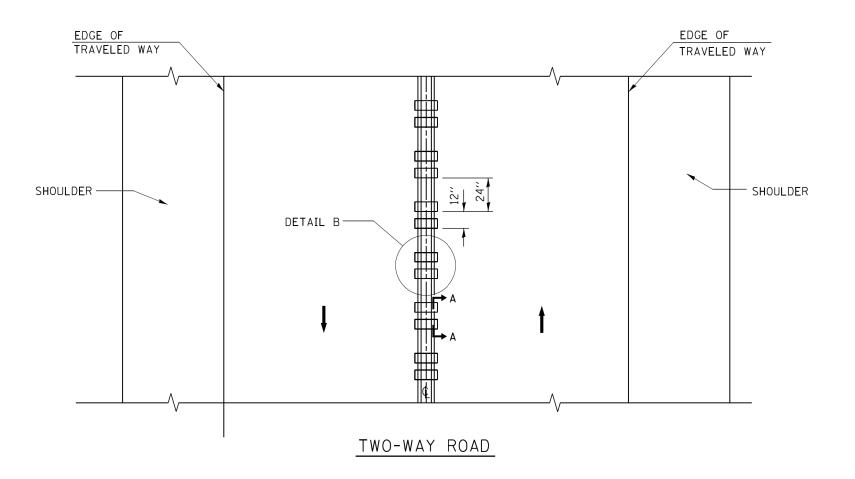
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

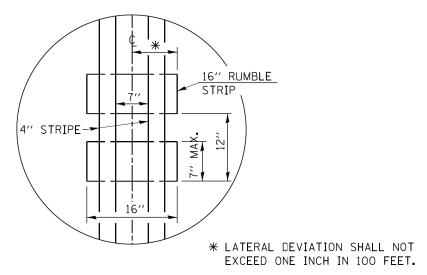
SCALE: NONE

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



SECTION A-A





# DETAIL B

# GENERAL NOTES

CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.
RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.

AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEPT CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

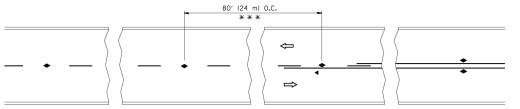
WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

# BASIS OF PAYMENT

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.

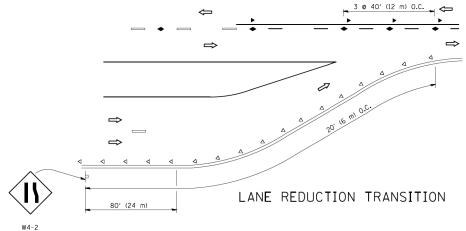
HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.

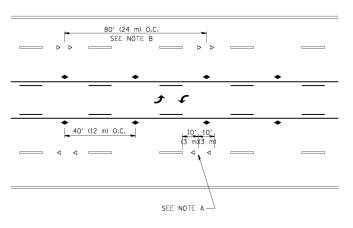
FILE NAME =	USER NAME = gaglianobt	DESIGNED - R. BORO	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
c:\pw_work\pwidot\gaglianobt\d0108315\bc	55.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	RUMBLE STRIPES FOR CENTERLINE, NON–FREEWAY	567	5VB-BR	KANE	73	70
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		<u>'</u>	BD 55	CONTRACT	NO. 6	2C14
	PLOT DATE = 8/28/2014	DATE - 08-06-2012	REVISED -		SCALE: NONE   SHEET NO. 1 OF 1 SHEETS   STA. TO STA.	FED. ROAD D		AID PROJECT		-



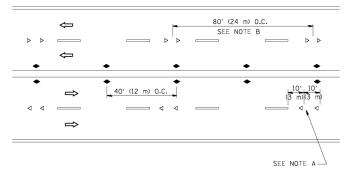
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

# TWO-LANE/TWO-WAY

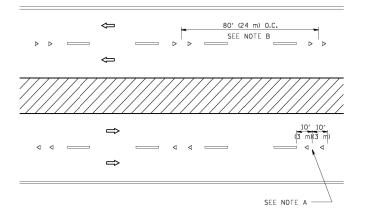




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

# GENERAL NOTES

- 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.

# 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.

# SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/0)
- ◆ TWO-WAY AMBER MARKER

# DESIGN NOTES

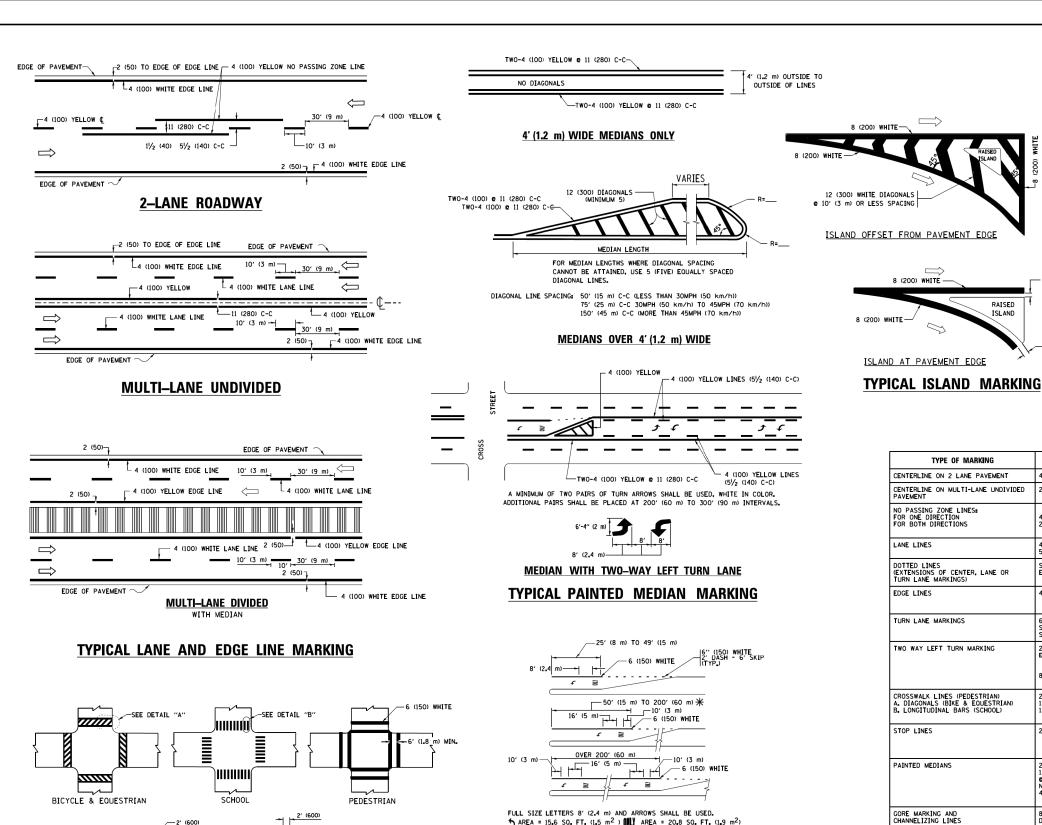
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS 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.

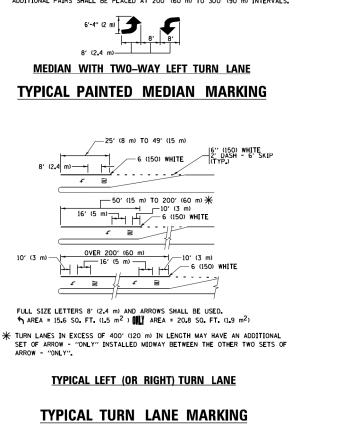
# 

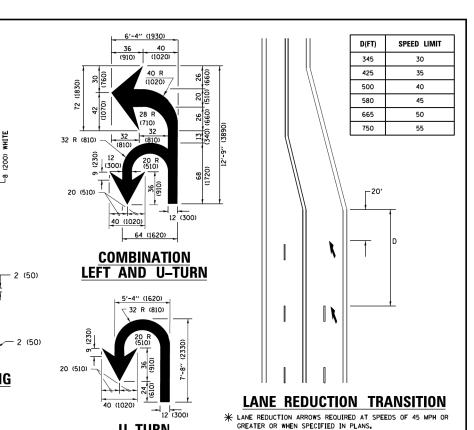
LEFT TURN

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

FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED -T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	RTF	SECTION	COUNTY   O AL	L SHEET
c:\pw_work\pwidot\leysa\d0108315\tcl1.dgn		DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS			567	5VB-BR	KANE 73	71
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			TC-11	CONTRACT NO.	62C14
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			







TYPE OF MARKING WIDTH OF LINE PATTERN SPACING /REMARKS CENTERLINE ON 2 LANE PAVEMENT SKIP-DASH YELLOW 10' (3 m) LINE WITH 30' (9 m) SPACE CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN 4 (100) 2 **c** 4 (100) SKIP-DASH SKIP-DASH LANE LINES 10' (3 m) LINE WITH 30' (9 m) SPACE 4 (100) 5 (125) ON FREEWAYS 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 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) TURN LANE MARKINGS SOLID WHITE SEE TYPICAL TURN LANE MARKING DETAIL 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL TWO WAY LEFT TURN MARKING YELLOW (2.4m) LEFT ARROW CROSSWALK LINES (PEDESTRIAN)
A. DIAGONALS (BIKE & EQUESTRIAN)
B. LONGITUDINAL BARS (SCHOOL) NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE STOP LINES 24 (600) SOLID WHITE 2 @ 4 (100) WITH 12 (300) DIAGONALS PAINTED MEDIANS SOLID 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS 8 (200) WITH 12 (300) DIAGONALS @ 45° GORE MARKING AND CHANNELIZING LINES SOLID 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)) 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 LETTERS; 16 (400) LINE FOR "X" SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²) RAILROAD CROSSING SOLID WHITE 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 (0VER 45MPH (70 km/h)) SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS  $\geq$  8') WHITE - RIGHT YELLOW - LEFT 12 (300) @ 45° SOLID U TURN ARROW SEE DETAIL SOL TO WHITE 2 ARROW COMBINATION LEFT AND U TURN 30.4 SF

**U\_TURN** 

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

SCALE: NONE

8 (200) WHITE -

ISLAND AT PAVEMENT EDGE

RAISED

unless otherwise shown.

FILE NAME = USER NAME = leysa DESIGNED - EVERS REVISED - C. JUCIUS 09-09-0 \diststd\22x34\tc13.dgn DRAWN REVISED - C. JUCIUS 07-01-13 REVISED -PLOT SCALE = 50.000 '/ 10. CHECKED C. JUCIUS 12-21-15 PLOT DATE = 6/23/2017 DATE 03-19-90 REVISED -C. JUCIUS 04-12-16

TYPICAL CROSSWALK MARKING

 $oldsymbol{st}$  markings shall be installed parallel to the centerline of

-12 (300) WHITE

DETAIL "B"

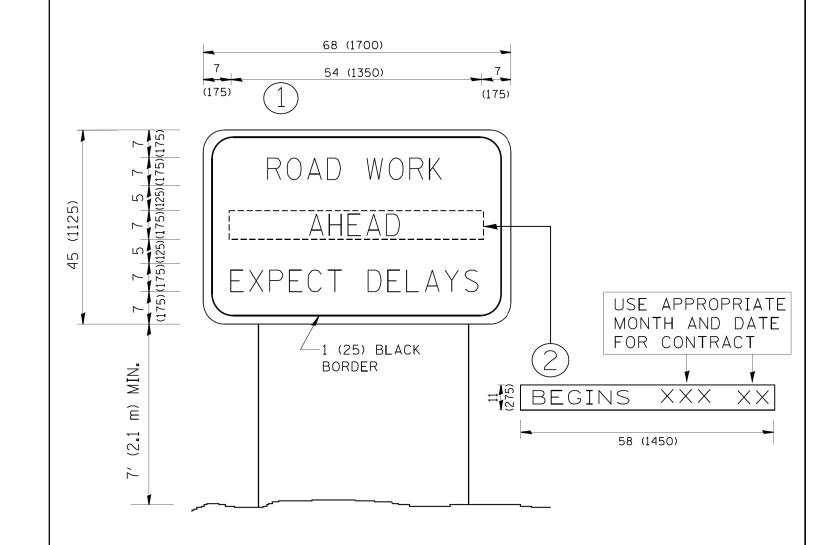
- 6 (150) WHITE

THE ROAD WHICH IT CROSSES

DETAIL "A"

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION COUNTY DISTRICT ONE 5VB-BR KANE 73 TYPICAL PAVEMENT MARKINGS TC-13 CONTRACT NO. 62C14 TO STA. SHEET 1 OF 1 SHEETS STA.



# 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 () 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 =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.P. SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	567 5VB-BR	KANE 73 73
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		TC-22	CONTRACT NO. 62C14
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINO	DIS FED. AID PROJECT