F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	1
	ILLINOIS	CONTRACT NO. 66961		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

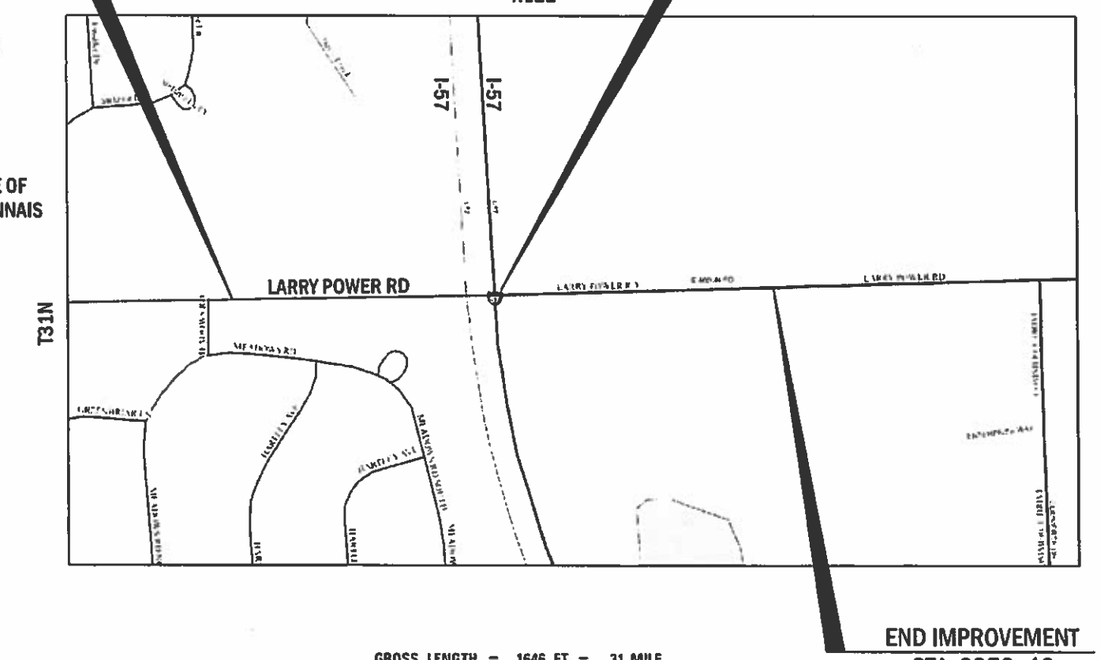
F.A.I. ROUTE 57 (I-57)
SECTION 46-2 (1) HBR-2
PROJECT NHPP-HGM4(021)
BRIDGE REPLACEMENT
KANKAKEE COUNTY

C-93-103-12

P-93-030-06
D-93-052-12

LOCATION OF SECTION INDICATED THUS: -

INDEX OF SHEETS

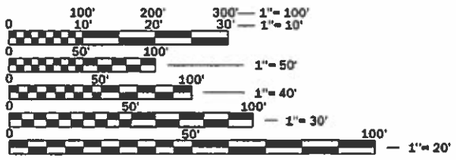


GROSS LENGTH = 1646 FT. = .31 MILE
NET LENGTH = 1646 FT. = .31 MILE

N

LOCATION MAP
NOT TO SCALE

FUNCTIONAL CLASSIFICATION &
ADT DATA SEE GENERAL NOTES, SHEET 2



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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 08/16 20 19
Manuel Armendariz
REGIONAL ENGINEER
Dec 10 20 19
A. C. [illegible]
ENGINEER OF DESIGN AND ENVIRONMENT
Dec 19 20 19
Paul [illegible]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: BRAD DUNCAN, PE
UNIT CHIEF: ALEX NUGENT
DISTRICT 3 NO. (815) 434-6131

CONTRACT NO. 66961

GENERAL NOTES

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- AT&T
- COMED
- NICOR
- AQUA ILLINOIS
- COMCAST
- VILLAGE OF BOURBONNAIS
- BUCKEYE PARTNERS

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

	F.A.I. 57	LARRY POWER RD.
FUNCTIONAL CLASSIFICATION	URBAN INTERSTATE	URBAN MINOR ARTERIAL
DESIGN SPEED	70 MPH	35 MPH
POSTED SPEED	70 MPH	35 MPH
ADT:	31800 (2017)	8400 (2017)
PV:	78.45%	88.48%
SU:	3.00%	10.71%
MU:	18.55%	0.81%

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

BLR 22-7	TYPICAL APP OF T.C.D. RURAL LOCAL HIGHWAY (2-LANE 2-WAY RURAL TRAF.) ROAD CLOSED TO THRU TRAFFIC)
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIAMETER
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN, TYPE A
602301-04	INLET, TYPE A
602402-02	PRECAST MANHOLE, TYPE A 5' (1.52 m) DIAMETER
602701-02	MANHOLE STEPS
604011-05	FRAME AND GRATE, TYPE 3V
604036-03	GRATE, TYPE 6
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630116	BACK SIDE PROTECTION OF GUARDRAIL
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
643001-02	SAND MODULE IMPACT ATTENUATORS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT-OF-WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS 2L, 2-WAY, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-ROAD OPERATIONS 2L, 2-WAY, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701300-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2-WAY, UNDIVIDED
701901-03	TRAFFIC CONTROL DEVICES
704001-03	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
821101-02	LUMINAIRE WIRING IN POLE
825001-04	LIGHTING CONTROLLER, POLE MOUNTED, 240V
830006-03	LIGHT POLE ALUMINUM DAVIT ARM
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES
701446-10	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: 8-15-19

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

_____
DISTRICT MATERIALS ENGINEER

_____
DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, AND COMMITMENTS

SCALE: | SHEET 1 OF * SHEETS, STA. TO STA.

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	2
		CONTRACT NO. 66961		
		ILLINOIS FED. NO. PROJECT		

REV. 11/25/19 REV. 9/19/19 REV. 9/10/19

				CONSTRUCTION CODE		
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% CITY OF BOURBONNAIS
				ROADWAY	BRIDGE	HIGHWAY LIGHTING
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0021
				URBAN	S.N. 046-0151	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	622	622		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	233	233		
20200100	EARTH EXCAVATION	CU YD	2503	2503		
20400800	FURNISHED EXCAVATION	CU YD	11124	11124		
20800150	TRENCH BACKFILL	CU YD	76	76		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1075	1075		
25000300	SEEDING, CLASS 3	ACRE	2	2		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	180		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180	180		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	180		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	9674	9674		
25100900	TURF REINFORCEMENT MAT	SQ YD	386	386		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	602	602		
28000305	TEMPORARY DITCH CHECKS	FOOT	360	360		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	3
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE		
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% CITY OF BOURBONNAIS
				ROADWAY	BRIDGE	HIGHWAY LIGHTING
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0021
				URBAN	S.N. 046-0151	URBAN
28000400	PERIMETER EROSION BARRIER	FOOT	2732	2732		
28000500	INLET AND PIPE PROTECTION	EACH	45	45		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3259	3259		
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	1579	1579		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	16849	16849		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2468	2468		
40701896	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 3/4"	SQ YD	5404	5404		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	177	177		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	80	80		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	353	353		
44000100	PAVEMENT REMOVAL	SQ YD	4180	4180		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	353	353		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	345	345		
44000600	SIDEWALK REMOVAL	SQ FT	319	319		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 2 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	4
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE		
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% CITY OF BOURBONNAIS
				ROADWAY	BRIDGE	HIGHWAY LIGHTING
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0021
				URBAN	S.N. 046-0151	URBAN
44004250	PAVED SHOULDER REMOVAL	SQ YD	237	237		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2		
50157300	PROTECTIVE SHIELD	SQ YD	264		264	
50200100	STRUCTURE EXCAVATION	CU YD	113		113	
50300225	CONCRETE STRUCTURES	CU YD	184.6		184.6	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	393.6		393.6	
50300260	BRIDGE DECK GROOVING	SQ YD	1100		1100	
50300300	PROTECTIVE COAT	SQ YD	1820		1820	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	151.6		151.6	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1	
50500505	STUD SHEAR CONNECTORS	EACH	8088		8088	
50800105	REINFORCEMENT BARS	POUND	66	66		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	189,650		189,650	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 3 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	5
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

REV. 11/26/19 REV. 11/25/19

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FEDERAL 10% STATE ROADWAY 0004 URBAN	90% FEDERAL 10% STATE BRIDGE 0010 S.N. 046-0151	100% CITY OF BOURBONNAIS HIGHWAY LIGHTING 0021 URBAN
50901735	BRIDGE FENCE RAILING (SIDEWALK)	FOOT	245		245	
50901750	PARAPET RAILING	FOOT	275		275	
51100100	SLOPE WALL 4 INCH	SQ YD	557		557	
51201610	FURNISHING STEEL PILES HP12X63	FOOT	518		518	
51202305	DRIVING PILES	FOOT	518		518	
51203610	TEST PILE STEEL HP12X63	EACH	2		2	
51204650	PILE SHOES	EACH	16		16	
51500100	NAME PLATES	EACH	1		1	
52100520	ANCHOR BOLTS, 1"	EACH	32		32	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	16		16	
54002020	EXPANSION BOLTS 3/4 INCH	EACH	24	24		
542A3391	PIPE CULVERTS, CLASS A, TYPE 5 36"	FOOT	88	88		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	19	19		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1		

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PLOT DATE = 8/16/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 4 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	6
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FEDERAL 10% STATE ROADWAY 0004 URBAN	 90% FEDERAL 10% STATE BRIDGE 0010 S.N. 046-0151	 100% CITY OF BOURBONNAIS HIGHWAY LIGHTING 0021 URBAN
54248510	CONCRETE COLLAR	CU YD	0.8	0.8		
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	66	66		
54261636	CONCRETE END SECTION, STANDARD 542001, 36", 1:6	EACH	2	2		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	380	380		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	161	161		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	391	391		
55100500	STORM SEWER REMOVAL 12"	FOOT	55	55		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	152		152	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	95		95	
60100945	PIPE DRAINS 12"	FOOT	672	672		
60108501	PIPE UNDERDRAINS, TYPE 3	FOOT	2620	2620		
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3	3		
60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	29	29		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 5 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	7
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

					CONSTRUCTION CODE		
					90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% CITY OF BOURBONNAIS
					ROADWAY	BRIDGE	HIGHWAY LIGHTING
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0021
					URBAN	S.N. 046-0151	URBAN
	60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	3	3		
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	EACH	4	4		
	60500060	REMOVING INLETS	EACH	3	3		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1371	1371		
	61000050	CONCRETE THRUST BLOCKS	EACH	12	12		
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	825	825		
*	63000035	BACK SIDE PROTECTION OF GUARDRAIL	FOOT	75	75		
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
	63200310	GUARDRAIL REMOVAL	FOOT	2321	2321		
	64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
	64301090	ATTENUATOR BASE	SQ YD	56	56		
	66500105	WOVEN WIRE FENCE, 4'	FOOT	237	237		

*= SPECIALTY ITEM

USER NAME = nugentaj	DESIGNED -	REVISED -	
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PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 6 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	8
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

REV. 9/10/19

					CONSTRUCTION CODE		
					90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% CITY OF BOURBONNAIS
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE	HIGHWAY LIGHTING
					0004	0010	0021
					URBAN	S.N. 046-0151	URBAN
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	10	10		
*	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	65	65		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1		
*	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	3	3		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
	67100100	MOBILIZATION	L SUM	1	1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60	60		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	200	200		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	2000	2000		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1400	1400		

*= SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 7 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	9
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

REV. 9/10/19

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FEDERAL 10% STATE ROADWAY 0004 URBAN	 90% FEDERAL 10% STATE BRIDGE 0010 S.N. 046-0151	 100% CITY OF BOURBONNAIS HIGHWAY LIGHTING 0021 URBAN
	70600280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE,NARROW), TEST LEVEL 3	EACH	4	4		
	70600370	IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3	EACH	4	4		
*	72000100	SIGN PANEL - TYPE 1	SQ FT	15	15		
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	9	9		
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	54	54		
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	40.5	40.5		
*	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	3	3		
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4832	4832		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	180	180		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	238	238		
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1100	1100		
*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	68	68		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	74	74		

*= SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 8 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	10
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

REV. 9/10/19

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FEDERAL 10% STATE ROADWAY 0004 URBAN	 90% FEDERAL 10% STATE BRIDGE 0010 S.N. 046-0151	 100% CITY OF BOURBONNAIS HIGHWAY LIGHTING 0021 URBAN
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	24	24		
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	14	14		
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1			1
*	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	220			220
*	81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1360			1360
*	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	6			6
*	82500300	LIGHTING CONTROLLER, POLE MOUNTED, 240VOLT, 30AMP	EACH	1			1
*	83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM	EACH	6			6
*	83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6'	EACH	6			6
	83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	24			24
	X0325969	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE BOARD	CAL DA	8	8		
	X0326880	MESSAGE BOARD VEHICLE DRIVER	HOUR	64	64		
	X3030113	AGGREGATE SUBGRADE IMPROVEMENT 12" SPECIAL	SQ YD	2651	2651		
	X6431110	REMOVE ATTENUATOR BASE	EACH	2	2		

*= SPECIALTY ITEM

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 9 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	11
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

REV. 9/10/19

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FEDERAL 10% STATE ROADWAY 0004 URBAN	 90% FEDERAL 10% STATE BRIDGE 0010 S.N. 046-0151	 100% CITY OF BOURBONNAIS HIGHWAY LIGHTING 0021 URBAN
X6431120	REMOVE IMPACT ATTENUATOR SAND MODULE	EACH	2	2		
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	288	288		
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	3	3		
X7010206	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	EACH	2	2		
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1	1		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X7011801	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1		
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	124	124		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4		4	
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	2702	2702		
Z0034105	MATERIAL TRANSFER DEVICE	TON	3334	3334		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	172		172	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	12
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

PAVEMENT SCHEDULE

LOCATION			LENGTH	MAINLINE WIDTH	AGG SUBGRADE IMPROVEMENT 12"	AGG SUBGRADE IMPROVEMENT 12" SPECIAL	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	HMA PAVT (FULL DEPTH) 10 3/4"	MATERIAL TRANSFER DEVICE	LONG JOINT SEAL	COMB CONC CURB & GUTTER B-6.12	PAVT CONN (HMA) BRIDGE APPROACH SLAB
STA	TO	STA	FOOT	FOOT	SQ YD	SQ YD	POUND	POUND	SQ YD	TON	FOOT	FOOT	SQ YD
2360+00	TO	2366+05	605	36		2607.7	1089	5867	2420	1493	1210	605	
2366+05	TO	2366+15	10	36		43.1	18	97				10	40
2366+15	TO	2368+90	275		BRIDGE AND APPROACH PAVEMENT								
2368+90	TO	2369+00	10	36	43.1		18	97				10	40
2369+00	TO	2376+46	746	36	3215.4		1343	7235	2984	1841	1492	746	
TOTALS			1646	144	3259	2651	2468	13296	5404	3334	2702	1371	80

ENTRANCE SCHEDULE

STA	SIDE	DRIVEWAY PAVT REMOVAL	PCC DRIVEWAY PAVT, 8"
		SQ YD	SQ YD
2361+06	LT	86	86
2374+81	RT	148	148
2376+17	RT	118	118
TOTALS		353	353

PAVEMENT REMOVAL SCHEDULE

LOCATION			PAVEMENT REMOVAL	COMBINATION CURB & GUTTER REMOVAL	SIDEWALK REMOVAL
STA	TO	STA	SQ YD	FOOT	SQ FT
2360+00	TO	2366+40	1944		
2368+65	TO	2376+46	2080		
2360+00	TO	2360+45		89	
2375+40	TO	2376+46		206	
2360+00	TO	2360+83			319
NE BRIDGE QUAD (OLD PAVEMENT)			156		
TOTALS			4180	295	319

MULTI-USE PATH SCHEDULE

LOCATION			AGGREGATE BASE COURSE TYPE A 6"	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HMA SURFACING
STA	TO	STA	SQ YD	POUND	TON
2360+00	TO	2366+40	711	1600	80
2368+65	TO	2376+46	868	1953	97
TOTALS			1579	3553	177

GUARDRAIL REMOVAL SCHEDULE

STATION			LOCATION	SIDE	GUARDRAIL REMOVAL	PAVED SHLDR REMOVAL	COMB C&G REMOVAL
				LT/RT	FOOT	SQ YD	FOOT
2362+50	TO	2366+40	LARRY POWER	RT	390		
2362+52	TO	2366+40	LARRY POWER	LT	388		
2368+64	TO	2372+79	LARRY POWER	RT	415		
2368+64	TO	2372+80	LARRY POWER	LT	416		
364+03	TO	367+84	I-57 NB	RT	381	127.0	25
367+84	TO	371+15	I-57 SB	LT	331	110.3	25
TOTAL					2321	237	50

GUARDRAIL SCHEDULE

STATION			SIDE	S.P.B. GUARDRAIL TYPE A. 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REFLECTORS TYPE A	BARRIER WALL REF, TYP B	TERMINAL MARKER - DIRECT APPLIED	BACK SIDE PROTECTION OF GUARDRAIL
			LT/RT	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT
2365+28	TO	2366+15	LT		1	1	2		1	37.5
2361+77	TO	2366+15	RT	362.5	1	1	9		1	
2366+15	TO	2368+90	BOTH					14		
2368+90	TO	2369+78	LT		1	1	2		1	37.5
2368+90	TO	2374+28	RT	462.5	1	1	11		1	
TOTAL				825	4	4	24	14	4	75

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	13
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

EARTH EXCAVATION SCHEDULE

LOCATION			DESCRIPTION	EARTH EXCAVATION (CUTS)	EARTH EXCAVATION ADJ FOR SHRINKAGE 25% (NOT A PAY ITEM)	EMBANKMENT (FILLS) (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (PAID AS FURNISHED EX)
STA	TO	STA		CU YD	CU YD	CU YD	CU YD
2360+00.00	TO	2366+14.83	WEST APPRAOCH	1123	842	6067	-5225
2368+89.83	TO	2676+46.00	EAST APPROACH	1380	1035	6934	-5899
TOTALS				2,503	1,877	13,001	-11,124

R.O.W. MARKER SCHEDULE

LOCATION			OFFSET	SIDE	FURN & ERECT R.O.W. MARKERS	REMOVE R.O.W MARKERS
STA			FOOT		EACH	EACH
2360+82.00			55.00	LT	1	
2362+00.00			55.00	LT	1	
2365+00.00			85.00	LT	1	
2366+49.21			90.00	LT	1	
2366+49.96			65.22	LT		1
2368+49.30			90.00	LT	1	
2368+50.20			60.40	LT		1
2370+75.51			50.45	LT		1
2373+79.34			65.53	LT	1	
2375+39.90			50.00	LT	1	
2376+46.00			50.00	LT	1	
2376+96.00			35.00	LT	1	
2376+96.00			32.81	LT	1	
TOTAL					10	3

WOVEN WIRE FENCE SCHEDULE

LOCATION	WOVEN WIRE FENCE, 4'	WOVEN WIRE FENCE REMOVAL
	FOOT	FOOT
NW CORNER OF BRIDGE	59	85
SW CORNER OF BRIDGE	59	59
NE CORNER OF BRIDGE	60	85
SE CORNER OF BRIDGE	59	59
TOTAL	237	288

EROSION AND SEDIMENT CONTROL SCHEDULE

STATION			OFFSET	TURF REINFORCEMENT MAT	PERIMETER EROSION BARRIER	INLET PIPE PROTECTION	TEMPERARY DITCH CHECK	STABILIZED CONSTRUCTION ENTRANCE	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS)
			LT/RT	SQ YD	FOOT	EACH	FOOT	SQ YD	POUND
2360+00	TO	2367+52	LEFT	86	534	12	80	62.2	131
2360+00	TO	2367+52	RIGHT	86	646	7	100		133
2367+52	TO	2376+46	LEFT	128	833	11	110	62.2	173
2367+52	TO	2376+46	RIGHT	86	719	15	70		165
TOTAL				386	2732	45	360	124	602

LANDSCAPING SCHEDULE

STATION			OFFSET	HEAVY DUTY EROSION CONTROL BLANKET	TOPSOIL EXCAVATION & PLACEMENT	SEEDING CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
			LT/RT	SQ YD	CU YD	ACRE	POUND	POUND	POUND
2360+00	TO	2367+52	LEFT	2108	234	0.44	39	39	39
2360+00	TO	2367+52	RIGHT	2134	237	0.44	40	40	40
2367+52	TO	2376+46	LEFT	2778	309	0.57	52	52	52
2367+52	TO	2376+46	RIGHT	2654	295	0.55	49	49	49
TOTAL				9674	1075	2.00	180	180	180

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	14
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

TREE REMOVAL SCHEDULE

STA	O/S	TREE REMOVAL (6" - 15" DIAMETER)	TREE REMOVAL (OVER 15" DIAMETER)
	FOOT	UNIT	UNIT
2362+48	43 RT	6	
2362+57	45 RT	6	
2362+77	35 RT	6	
2362+88	45 RT	8	
2362+95	45 RT	8	
2363+24	40 RT	6	
2363+95	42 LT	8	
2364+02	43 LT	8	
2364+25	35 LT	8	
2364+37	40 LT	8	
2364+38	25 LT	10	
2364+38	45 LT	14	
2364+45	43 LT	6	
2364+52	45 LT	10	
2364+53	38 LT	6	
2364+55	30 LT	6	
2364+68	45 LT	10	
2364+72	36 LT	8	
2364+81	31 LT	8	
3364+82	49 LT	10	
2364+82	49 LT	14	
2364+94	28 LT	8	
2364+95	55 LT	10	
2364+98	46 LT	8	
2365+08	50 LT	6	
2365+10	55 RT	8	
2364+96	38 LT	12	
2365+18	39 LT	8	
2365+32	32 LT	8	
2365+35	38 LT	8	
2365+38	42 LT	8	
2365+40	53 LT	8	
2365+41	58 LT	8	
2365+47	46 LT	8	
2365+50	25 LT	10	
2365+51	55 LT	8	
2365+52	45 LT	10	
2365+58	40 LT	8	
2365+62	34 LT	8	
2365+70	42 LT	12	
2365+77	56 LT	8	
2365+80	46 LT	8	
2365+80	41 LT	12	
2365+90	30 LT	12	
2365+92	58 LT	6	
2365+97	43 LT	8	
2366+00	45 LT	6	
2366+01	35 LT	8	
2366+07	64 LT	6	
2366+08	65 LT	6	
2366+18	37 LT	8	
2366+25	50 LT	8	
2366+25	57 LT	6	
2366+29	35 LT	8	
2366+32	68 LT	6	
2366+32	68 LT	6	
2366+33	68 LT	6	
2366+35	40 LT	8	
2368+46	50 LT		26
2368+57	48 LT	10	
2368+79	55 LT		20
2368+80	50 LT		16
2368+80	53 LT		20
2368+86	34 LT	6	
2369+10	28 LT		16
2369+21	36 LT		18
2369+33	48 LT		20
2369+70	32 LT	10	
2369+83	55 LT	10	
2369+85	51 LT	6	
2369+85	55 LT	10	
2369+87	51 LT	10	
2369+87	57 LT		17
2369+92	31 LT	12	
2369+93	42 LT	8	
2369+96	30 LT	6	
2369+98	36 LT		39
2369+99	27 LT	10	
2370+46	34 LT	10	
2370+47	27 LT	10	
2370+48	36 LT	8	
2370+48	40 LT	7	
2370+50	33 LT	15	
2370+50	36 LT		17
2370+84	24 LT		24
TOTAL		622	233

STORM SEWER AND CULVERT PIPE SCHEDULE

STR	TO	STR	PIPE CULVERT CL A, TY 5 36"	STRM SWR CL A, TY 1 12"	STRM SWR CL A, TY 2 12"	STRM SWR CL A, TYP 1 15"	PIPE DRAIN 12"	CONC THRUST BLOCKS	TRENCH BACKFILL
			FOOT	FOOT	FOOT	FOOT	FOOT	EACH	CU YD
CB 1	TO	MH 1		10					1.5
INLET 1	TO	CB 1		36					5.5
CB 2	TO	CB 3		44					
INLET 2	TO	CB 6			14				
CB 6	TO	CB 5			36				5.5
CB 5	TO	EX MH 2		18					1.2
CB 4	TO	EX MH 2			37				
CB 7	TO	FES					31		
CB 8	TO	FES					19		
CB 9	TO	FES					40	1	
CB 10	TO	FES					27	1	
CB 11	TO	FES					51	1	
CB 12	TO	FES					38	1	
CB 13	TO	FES					61	1	
CB 14	TO	FES					47	1	
2366+64 CULVERT EXTENSION			40						
2368+32 CULVERT EXTENSION			48						
2368+48 FES	TO	MH 2		132					
MH 2	TO	2369+97 FES		20					
CB 15	TO	FES					62	1	
CB 16	TO	FES					64	1	
CB 17	TO	FES					55	1	
CB 18	TO	CB 17			36				5.5
CB 20	TO	CB 19			36				5.5
CB 19	TO	FES					48	1	
CB 22	TO	CB 21			36				5.5
CB 21	TO	FES					43	1	
CB 24	TO	CB 23			36				5.5
CB 23	TO	FES					37	1	
CB 25	TO	FES					29		
CB 26	TO	FES					20		
INLET 3	TO	CB 27			36				5.5
CB 27	TO	CB 28		76					11.5
FES	TO	CB 28				68			
FES	TO	CB 33				93			
CB 33	TO	CB 31			18				
INLET 4	TO	CB 29			19				2.9
CB 29	TO	CB 31			34				5.2
CB 31	TO	CB 32		36					5.5
INLET 5	TO	CB 30			19				2.9
CB 30	TO	CB 32			34				5.2
CB 32	TO	MH 2		8					1.2
TOTAL			88	380	391	161	672	12	76

PIPE UNDERDRAIN SCHEDULE

STA	TO	STA	SIDE	PIPE UNDERDRAINS TYPE 3	NOTES
				FOOT	
2360+00	TO	2360+90	RT	90	CONNECT TO DRAIN INTO INLET 1
2360+90	TO	2361+60	RT	70	CONNECT TO DRAIN INTO CB 2
2360+00	TO	2361+60	LT	160	CONNECT TO DRAIN INTO CB 1
2361+60	TO	2362+50	RT	90	CONNECT TO DRAIN INTO CB 6
2361+60	TO	2362+50	LT	90	CONNECT TO DRAIN INTO CB 5
2362+50	TO	2363+40	RT	90	CONNECT TO DRAIN INTO CB 8
2362+50	TO	2363+40	LT	90	CONNECT TO DRAIN INTO CB 7
2363+40	TO	2364+50	RT	110	CONNECT TO DRAIN INTO CB 10
2363+40	TO	2364+50	LT	110	CONNECT TO DRAIN INTO CB 9
2364+50	TO	2365+50	RT	100	CONNECT TO DRAIN INTO CB 12
2364+50	TO	2365+50	LT	100	CONNECT TO DRAIN INTO CB 11
2365+50	TO	2366+15	RT	65	CONNECT TO DRAIN INTO CB 14
2365+50	TO	2366+15	LT	65	CONNECT TO DRAIN INTO CB 13
2369+00	TO	2369+20	RT	20	CONNECT TO DRAIN INTO CB 16
2369+00	TO	2369+20	LT	20	CONNECT TO DRAIN INTO CB 15
2369+20	TO	2370+00	RT	80	CONNECT TO DRAIN INTO CB 18
2369+20	TO	2370+00	LT	80	CONNECT TO DRAIN INTO CB 17
2370+00	TO	2371+00	RT	100	CONNECT TO DRAIN INTO CB 20
2370+00	TO	2371+00	LT	100	CONNECT TO DRAIN INTO CB 19
2371+00	TO	2371+70	RT	70	CONNECT TO DRAIN INTO CB 22
2371+00	TO	2371+70	LT	70	CONNECT TO DRAIN INTO CB 21
2371+70	TO	2372+50	RT	80	CONNECT TO DRAIN INTO CB 24
2371+70	TO	2372+50	LT	80	CONNECT TO DRAIN INTO CB 23
2372+50	TO	2373+50	RT	100	CONNECT TO DRAIN INTO CB 26
2372+50	TO	2373+50	LT	100	CONNECT TO DRAIN INTO CB 25
2373+50	TO	2374+45	RT	95	CONNECT TO DRAIN INTO CB 27
2373+50	TO	2374+45	LT	95	CONNECT TO DRAIN INTO INLET 3
2374+45	TO	2375+40	RT	95	CONNECT TO DRAIN INTO INLET 5
2374+45	TO	2375+40	LT	95	CONNECT TO DRAIN INTO INLET 4
2375+40	TO	2375+60	RT	20	CONNECT TO DRAIN INTO CB 30
2375+40	TO	2375+60	LT	20	CONNECT TO DRAIN INTO CB 29
2375+60	TO	2375+95	RT	35	CONNECT TO DRAIN INTO CB 32
2375+60	TO	2375+95	LT	35	CONNECT TO DRAIN INTO CB 31
TOTAL				2620	

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SCHEDULES

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	15
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

DRAINAGE STRUCTURE SCHEDULE

STUCTURE (AS SHOWN ON PLANS)	STA	O/S	SIDE	MANHOLE TY A, 5' DIA. TY 8 GRATE	MANHOLE TY A, 5' DIA. TY 1 CL	CATCH BASIN TY A, 4' DIA. TY 11V F&G	CATH BASIN TY A, 4' DIA. TY 8 GRATE	INLET TYPE A TY 11V F&G	INLET TYPE A TY 8 GRATE	PRC FES 12"	PRC FES 15"	CONC END SEC STD 542001, 36" 1:6	TRVRSBLE PIPE GRATE FOR CONC ES	REINF BARS	CONC COLLAR	EXP BOLTS 3/4 INCH
		FOOT	LT/RT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	POUND	CU YD	EACH
MH 1	2359+93	25	LT	1												
CB 1	2360+00	18	LT			1										
INLET 1	2360+00	18	RT					1								
CB 2	2360+90	18	RT			1										
CB 3	2360+90	24	LT		1											
EX MH 2	2361+42	25	LT		1											
CB 4	2361+50	44	LT				1									
CB 5	2361+60	18	LT			1										
CB 6	2361+60	18	RT			1										
INLET 2	2361+60	33	RT						1							
CB 7	2362+50	18	LT			1				1						
CB 8	2362+50	18	RT			1				1						
CB 9	2363+40	18	LT			1				1						
CB 10	2363+40	18	RT			1				1						
CB 11	2364+50	18	LT			1				1						
CB 12	2364+50	18	RT			1				1						
CB 13	2365+50	18	LT			1				1						
CB 14	2365+50	18	RT			1				1						
-	2366+64	81	LT									1	32.75	33	0.416	12
-	2368+32	86	LT									1	32.75	33	0.416	12
-	2368+48	62	RT							1						
MH 2	2368+64	59	RT	1												
CB 15	2369+20	18	LT			1				1						
CB 16	2369+20	18	RT			1				1						
-	2369+97	65	RT							1						
CB 17	2370+00	18	LT			1				1						
CB 18	2370+00	18	RT			1										
CB 19	2371+00	18	LT			1				1						
CB 20	2371+00	18	RT			1										
CB 21	2371+70	18	LT			1				1						
CB 22	2371+70	18	RT			1										
CB 23	2372+50	18	LT			1				1						
CB 24	2372+50	18	RT			1										
CB 25	2373+50	18	LT			1				1						
CB 26	2373+50	18	RT			1				1						
INLET 3	2374+45	18	LT					1								
CB 27	2374+45	18	RT			1										
-	2374+52	31	RT							1						
-	2375+00	43	LT								1					
CB 28	2375+21	27	RT				1									
INLET 4	2375+39	18	LT					1								
INLET 5	2375+39	18	RT					1								
CB 29	2375+58	18	LT			1										
CB 30	2375+58	18	RT			1										
CB 31	2375+92	18	LT			1										
CB 32	2375+92	18	RT			1										
CB 33	2375+92	36	LT				1									
MH 3	2375+91	27	RT	1												
TOTAL				3	2	29	3	4	1	19	1	2	66	66	0.83	24

DRAINAGE REMOVAL SCHEDULE

STATION	OFFSET	SIDE	REMOVING INLETS	CONCRETE HEADWALL REMOVAL	STORM SEWER REMOVAL 12"
	FOOT	LT/RT	EACH	EACH	FOOT
2361+42	25	LT	1		
2361+42	30	RT	1		
2361+42					55
2361+53	27	LT	1		
2366+64	45	LT		1	
2368+32	38	LT		1	
TOTAL			3	2	55

IMPACT ATTENUATOR SCHEDULE

STATION	IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3	ATTENUATOR BASE	REMOVE ATTENUATOR BASE	REMOVE IMPACT ATTENUATOR SAND MODULE
	EACH	SQ YD	EACH	EACH
367+30	1	28	1	1
367+60	1	28	1	1
TOTAL	2	56	2	2

USER NAME = nugentaj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/16/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	16
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

PERMANENT PAVEMENT MARKING SCHEDULE

STA		STA	THERMOPLASTIC 4" YELLOW FOOT	THERMOPLASTIC 6" YELLOW FOOT	THERMOPLASTIC 12" YELLOW FOOT	POLYUREA 4" YELLOW FOOT	POLYUREA 12" YELLOW FOOT	RAISED REF PVT MARKER EACH
2360+00	TO	2361+31	262	80				8
2361+31	TO	2366+15	1936		102			26
2366+15	TO	2368+90				1100	68	
2368+90	TO	2374+51	2244		136			30
2374+51	TO	2376+46	390	100				10
TOTAL			4832	180	238	1100	68	74

SIGN SCHEDULE

STATION	SIDE	DESCRIPTION	SIGN PANEL TYPE 1 SQ FT	TELESCOPING STEEL SIGN SUPPORT FOOT	BASE FOR TEL STL SIGN SUP EACH	REMOVE SIGN PANEL TYPE 1 SQ FT	REMOVE SIGN PANEL ASSEMBLY TYPE A EACH
2360+51	LT	EX. SPEED LIMIT (R2-1)				3	1
2360+51	LT	R2-1	5	13.5	1		
2363+96	RT	EX. WEIGHT RESTRICTION (R12-4)				6	1
2368+90	LT	EX. KEEP RIGHT				5	1
2370+29	LT	EX. WEIGHT RESTRICTION (R12-4)				6	1
2375+11	LT	EX. CHEVRON & WARNING				8	1
2375+20	LT	EX. CHEVRON & WARNING				8	1
2375+28	LT	EX. CHEVRON & WARNING				8	1
2375+63	LT	EX. SPEED LIMIT (R2-1)				5	1
2375+63	LT	R2-1	5	13.5	1		
2375+63	RT	EX. SPEED LIMIT (R2-1)				5	1
2375+63	RT	R2-1	5	13.5	1		
TOTAL			15	40.5	3	54	9

CONTRACT NO. 66961

RTE.: I-57 LOCATION: LARRY POWER ROAD, 1.2 MILES NORTH OF ILL 50 KANKAKEE COUNTY

GPS NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
	NORTH 1/4 CORNER SECTION 17, T31N, R12E, 3RD PM	CUT CROSS	TYPE 1 OR	YES	1
	LOCATED ON BRIDGE		CUT CROSS	---------->	2
PI23753990	LARRY POWER ROAD PI STA 2375+39.90	MAG NAIL	TYPE 1	NO	1

COORDINATES ON THE LISTED MONUMENTS ARE KNOWN. MISSING POINT NUMBER WILL BE ASSIGNED. PRE CONSTRUCTION TIES BY THE R.E. ARE NOT REQUIRED.
UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, R.E. WILL DIRECT PLATS AND PLANS TO TO GPS ANY MONUMENT SUBJECT TO
DESTRUCTION FROM THE BRIDGE REPLACEMENT WORK FOR THE PURPOSE OF RESETTING IT AFTER JOB COMPLETION.
R.E. WILL DIRECT PLATS AND PLANS TO SEARCH FOR ADDITIONAL MONUMENTS IF THE CONSTRUCTION LIMITS ARE EXPANDED DURING CONSTRUCTION.
UPON PAVING COMPLETION, R.E. WILL DIRECT PLATS AND PLANS PERSONNEL TO STAKE THE LOCATION(S) FOR TYPE 1 MONUMENT CORING.
PLATS AND PLANS WILL PREPARE AND RECORD THE REQUIRED MONUMENT RECORD.

RESPONSIBILITY:
1) RESIDENT TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1)
2) PLATS AND PLANS TO RE-ESTABLISH MONUMENT

TEMPORARY CONCRETE BARRIER SCHEDULE

STATION			LENGTH SOUTH BOUND FOOT	LENGTH NORTH BOUND FOOT	SIDE LT/RT	TEMPORARY CONCRETE BARRIER FOOT	IMPACT ATTENUATOR, TEMPORARY (SEVERE USE, NARROW) TEST LEVEL 3 EACH	RELOCATE TEMPORARY CONCRETE BARRIER FOOT	IMPACT ATTENUATOR, RELOCATE (SEVERE USE, NARROW) TEST LEVEL 3 EACH
366+27	TO	371+27	500		LT	500	1		
366+27	TO	371+27	500		RT	500	1		
363+77	TO	368+77		500	LT	500	1		
363+77	TO	368+77		500	RT	500	1		
364+02	TO	367+52	USE WITH TC&P STD 701402 (SPL)					700	2
367+52	TO	371+02	USE WITH TC&P STD 701402 (SPL)					700	2
TOTAL						2000	4	1400	4

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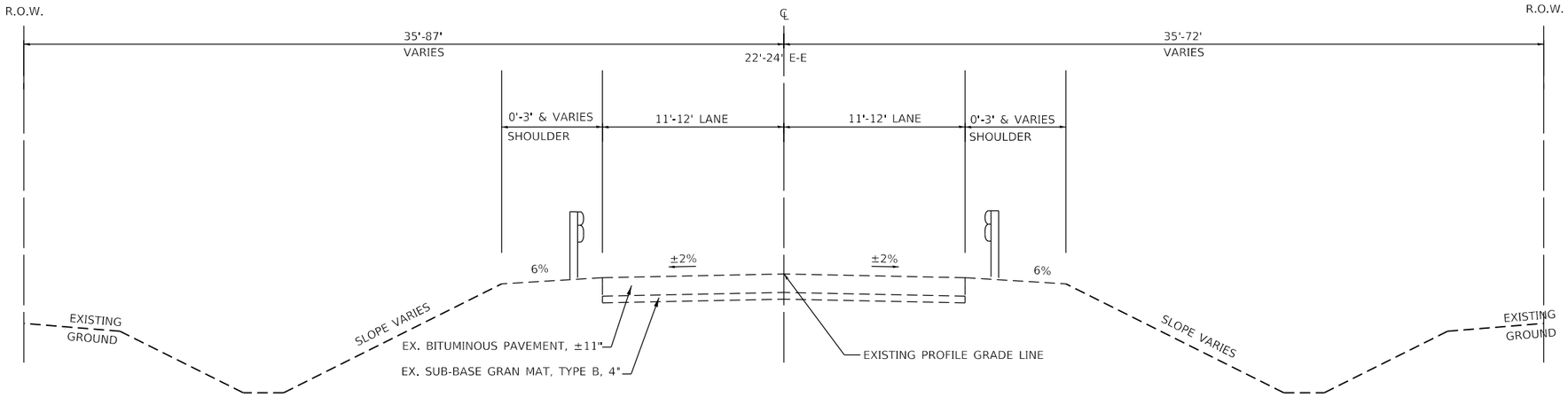
PLOT DATE = 8/16/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

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

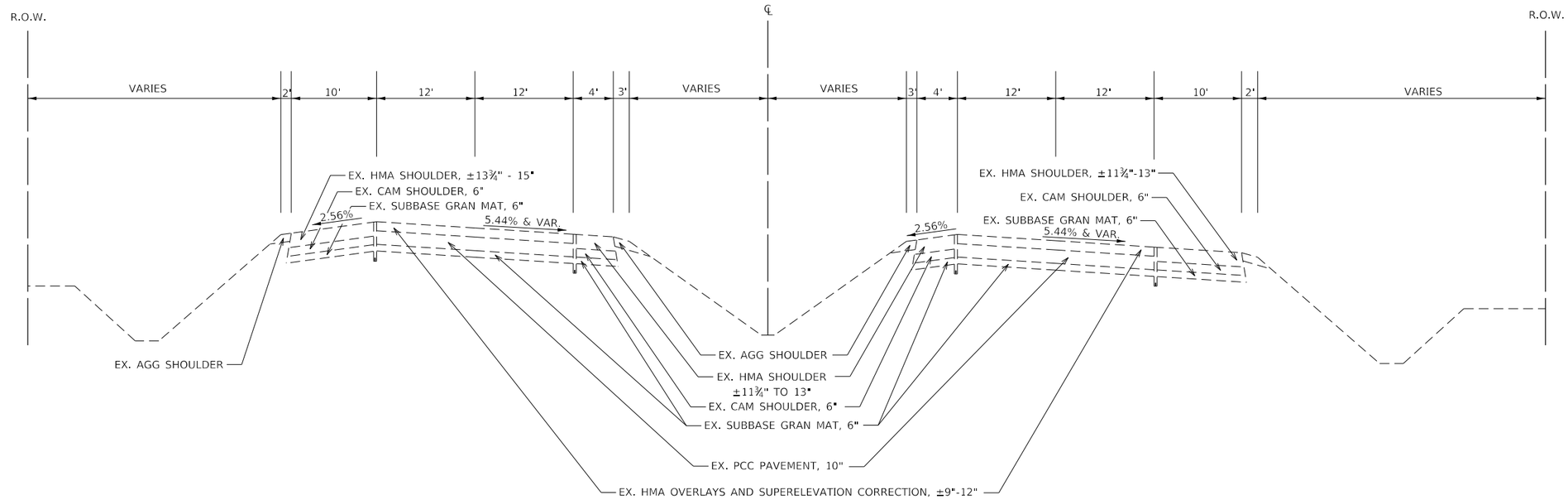
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	17
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	



EXISTING SECTION A

LARRY POWER RD

STA. 2360+00 TO STA. 2376+00



EXISTING SECTION B

I-57

STA. 353+22 TO STA 369+11

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PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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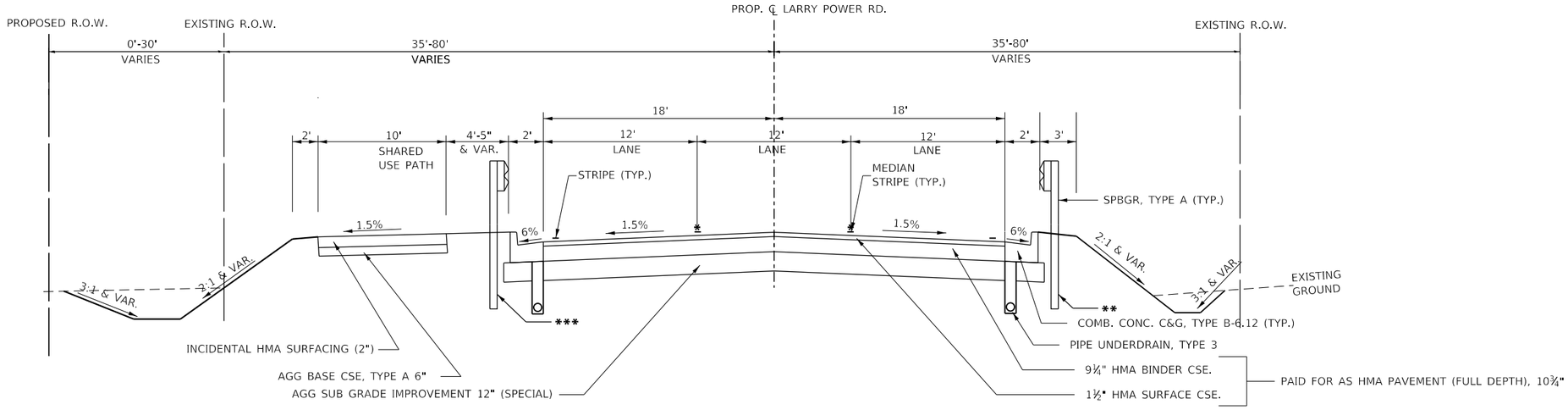
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		



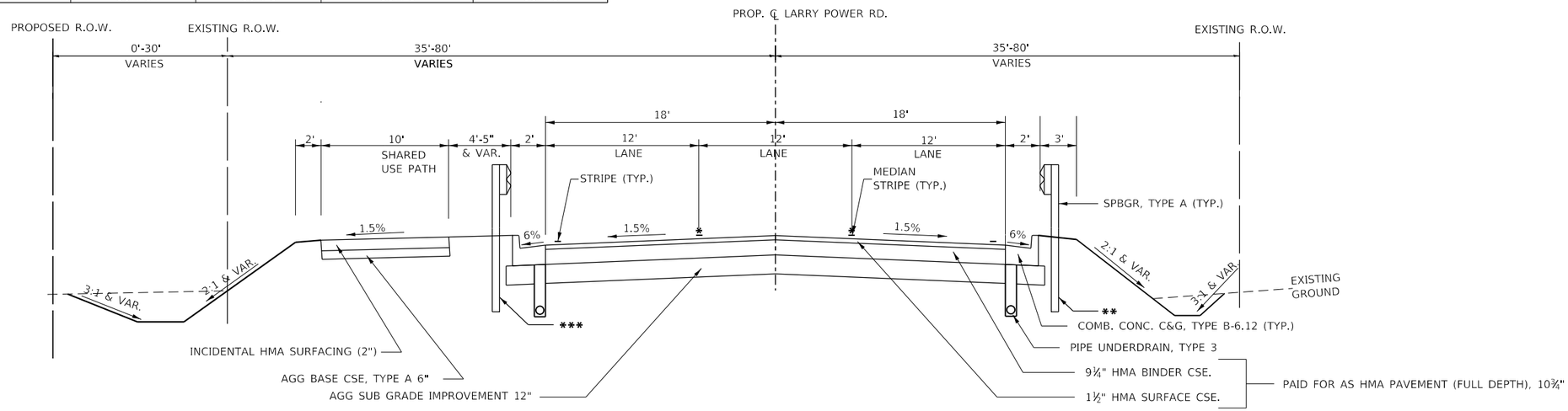
HMA MIXTURE REQUIREMENT TABLE				
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE	HMA BINDER TOP LIFT	HMA BINDER BOTTOM LIFT(S)	INCIDENTAL HMA
BINDER GRADE (PG):	SBS PG70-28	SBS PG70-28	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-19.0	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIXTURE D	N/A	N/A	N/A
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES	CORES	CORES

PROPOSED SECTION 1
LARRY POWER RD
STA. 2360+00 TO STA. 2366+05

✱ LONGITUDINAL JOINT SEAL (UNDER SURFACE COURSE)

** NOTE: PROPOSED GUARDRAIL
STA. 2361+77 TO STA. 2366+15

*** NOTE: PROPOSED GUARDRAIL
STA. 2364+25 TO STA. 2366+15



PROPOSED SECTION 2
LARRY POWER RD
STA. 2369+00 TO STA. 2376+46

✱ LONGITUDINAL JOINT SEAL (UNDER SURFACE COURSE)

** NOTE: PROPOSED GUARDRAIL
STA. 2368+90 TO 2374+28

*** NOTE: PROPOSED GUARDRAIL
STA. 2368+90 TO 2370+40

USER NAME = nugentaj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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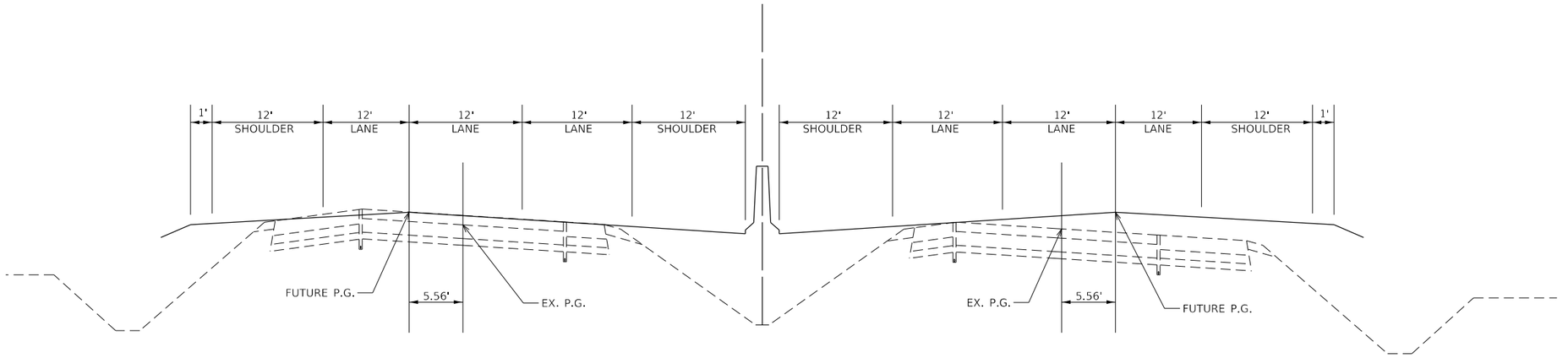
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	



FUTURE SIX LANE TYPICAL SECTION

I-57

FOR INFORMATION ONLY

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		DRAWN -	REVISED -					57	46-2 (1) HBR-2	KANKAKEE	87	20
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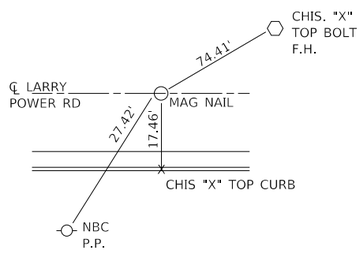
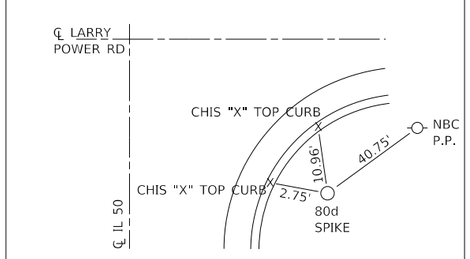
	PLOT DATE = 8/15/2019	DATE -	REVISED -		SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.		ILLINOIS	FED. AID PROJECT		

PNT. 8031 P.O.T.



PNT. 536 C.P.



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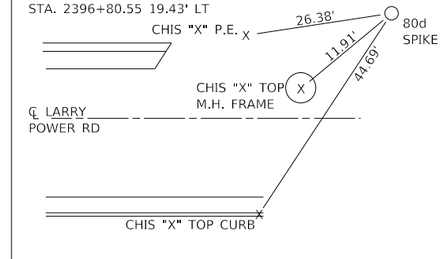

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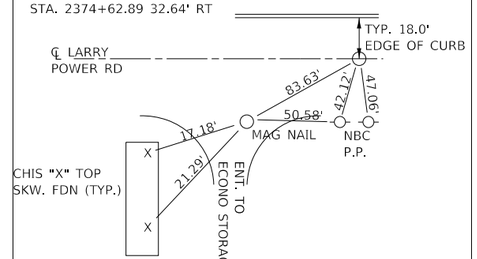
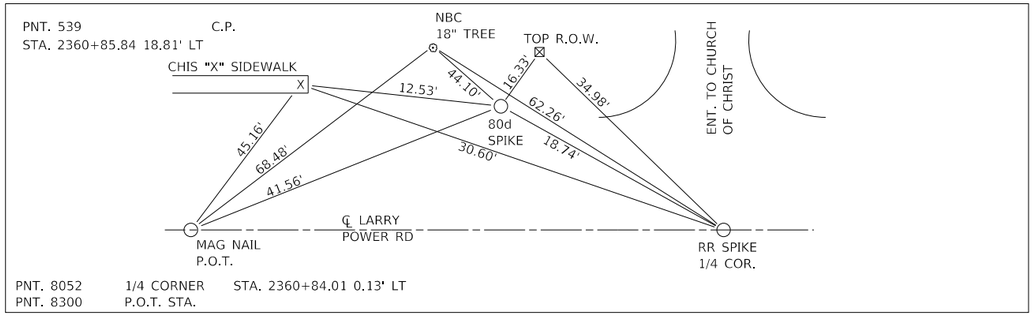
STA. 2374+62.89 32.64' RT



PNT. 539 C.P.
STA. 2360+85.84 18.81' LT



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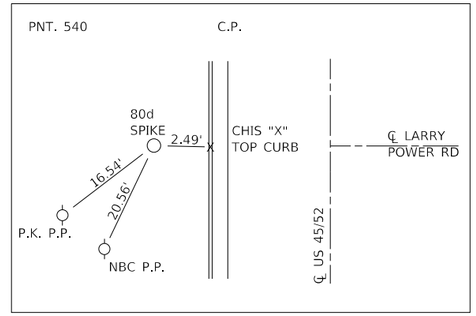
PNT. 8300 P.O.T. STA.

PNT. 540 C.P.



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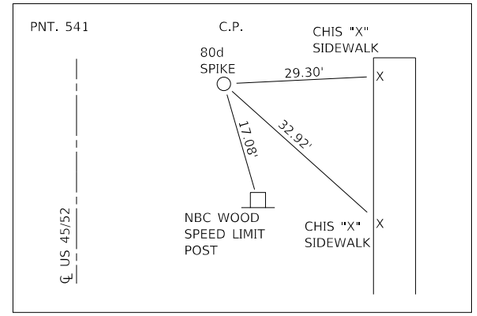
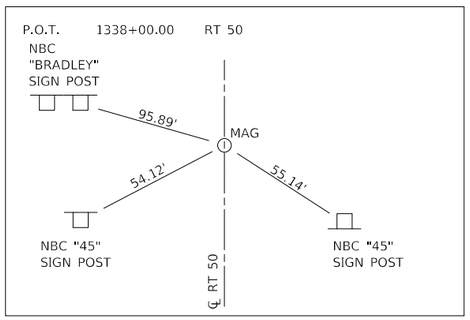
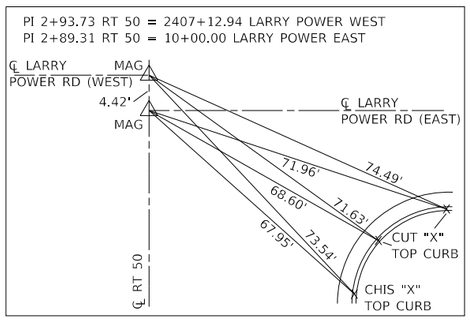


P.O.T. 1338+00.00 RT 50



PI 2+93.73 RT 50 = 2407+12.94 LARRY POWER WEST
PI 2+89.31 RT 50 = 10+00.00 LARRY POWER EAST



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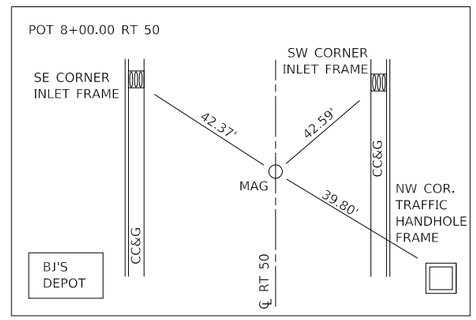
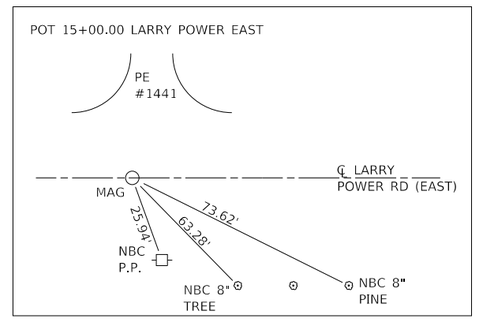
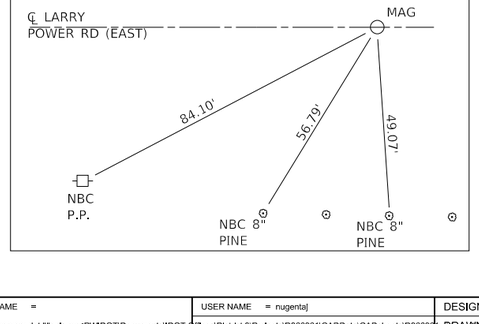


POT 15+00.00 LARRY POWER EAST



P.O.T. 22+00.00 LARRY POWER EAST



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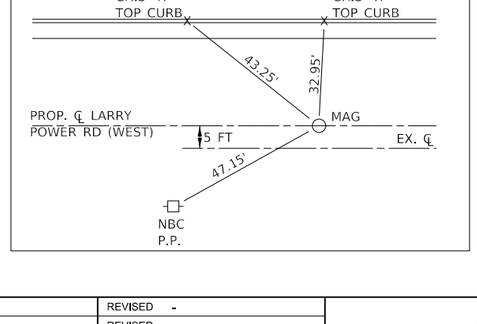
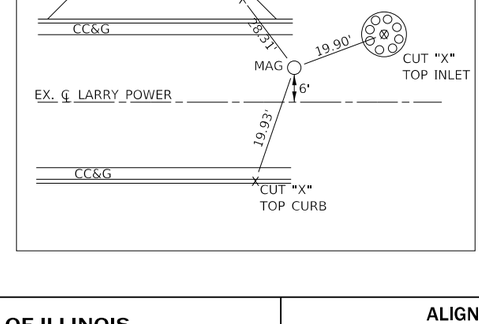


P.O.T. 2396+62.24



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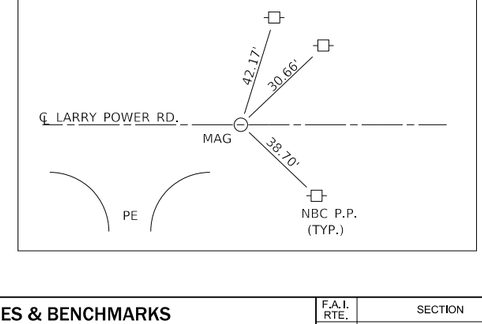

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

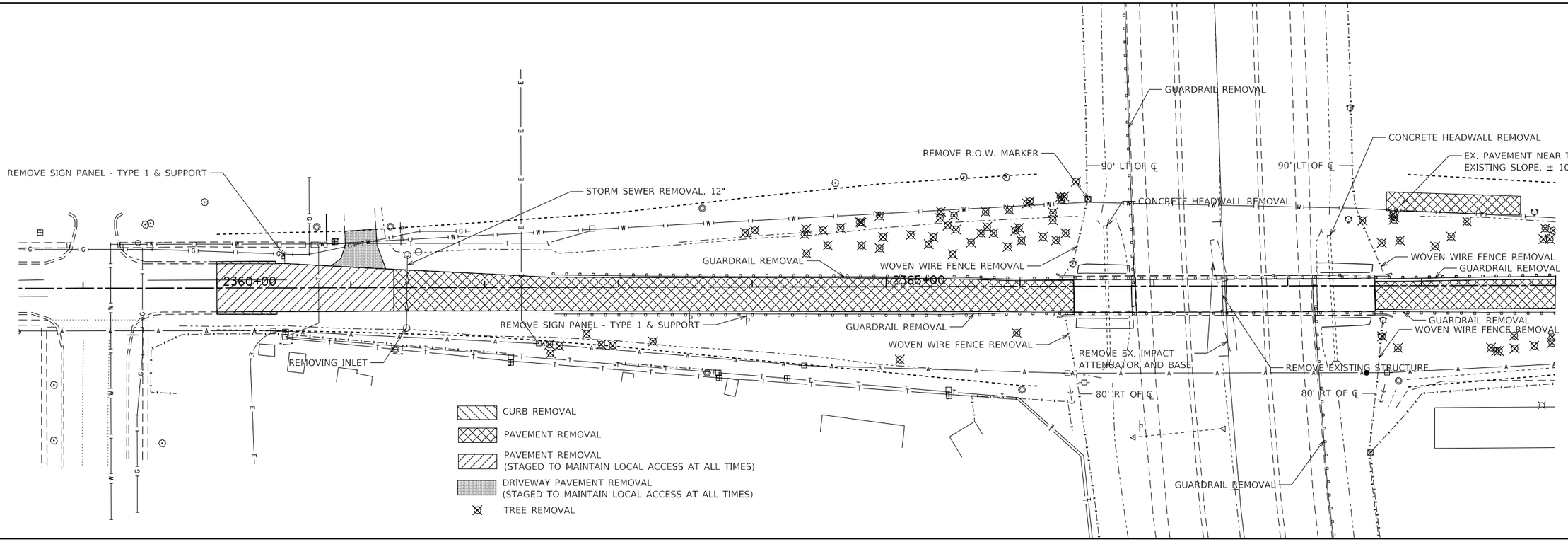
ALIGNMENT TIES & BENCHMARKS

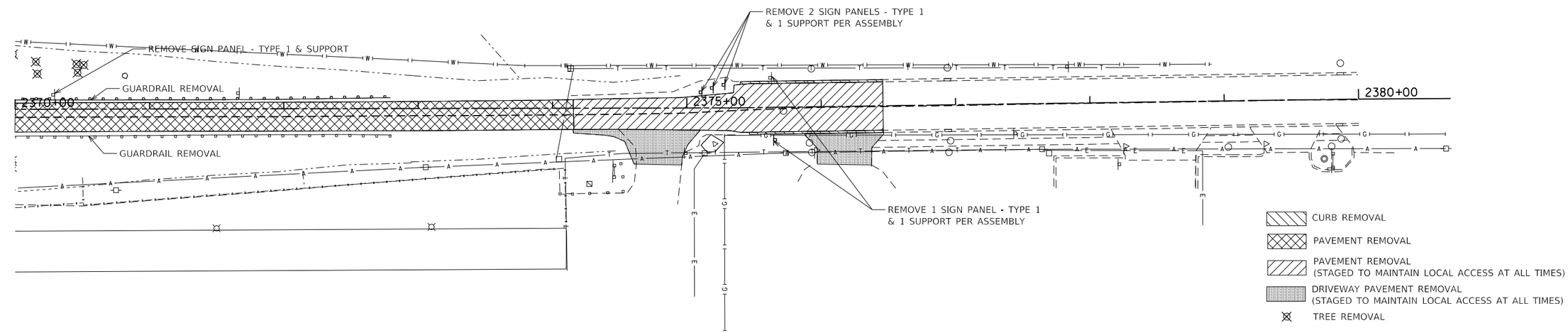
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	21

CONTRACT NO. 66961

ILLINOIS | FED. AID PROJECT





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PLOT DATE = 8/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CONDITIONS & REMOVAL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	22
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

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PLOTTED
AUTOMATIC CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

COMMERCIAL ENTRANCE
DRIVEWAY PAV'T REMOVAL &
PCC DRIVEWAY PAV'T 8"

MATCH EX
SIDEWALK
WIDTH ±4'

HMA MULTI-USE PATH

4:10 TAPER

10'

5'

PROP. R.O.W.

LIMITS OF CONSTRUCTION

EXIST. R.O.W.

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 10¾" AND
AGGREGATE SUBGRADE IMPROVEMENT, SPECIAL

10'

5'

COMBINATION CONCRETE
CURB & GUTTER B-6.12

2360+00

36'

18'

18'

COMBINATION CONCRETE
CURB & GUTTER B-6.12

(12.5')

(37.5')

SPBG - TYP A
(TOTAL LENGTH = 400')

EXIST. R.O.W.

TRAFFIC BARRIER TERMINAL
TYPE 1, SPL (TANGENT)
(50')

LIMITS OF CONSTRUCTION

TOTAL LON =
475'

MATCHLINE STA. 2365+00

N

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
B.M. NOTED
STRUCTURE NO(TA)NS CHKD

715
710
705
700
695

318.00' V.C.

+18.02 EL. 706.44

697.98

+0.47%

+4.85%

VPI STA.
2361+59.02

ELEVATION
698.73

697.98	698.21 698.39	698.71 699.14	699.60 700.24	701.09 701.68	703.15 703.46	705.66 705.59	708.34 707.99	710.90 710.41	713.14 712.84	715.14 715.26

2360+00 2360+50 2361+00 2361+50 2362+00 2362+50 2363+00 2363+50 2364+00 2364+50 2365+00

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PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET 1 OF 3 SHEETS | STA. | TO STA. 2365+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	23
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

PROP. R.O.W.
LIMITS OF CONSTRUCTION
EXIST. R.O.W.
BEGIN MULTI-USE PATH 1:20 TAPER +78
WOVEN WIRE FENCE, 4'
LON < 75'
TBT TYPE 6 WITH BACKSIDE GUARDRAIL PROTECTION
TBT TYPE 1 SPECIAL (TANGENT)
36' EXTENSION OF 36" RCP CULVERT
48' EXTENSION OF 36" RCP CULVERT
PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
1:20 TAPER
MATCHLINE STA. 2365+00
36'
18'
10'
+4.83
+14.83
+44.83
PGL
+59.83
+89.83
+99.83
COMBINATION CONCRETE CURB & GUTTER B-6.12
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 10¾" AND AGGREGATE SUBGRADE IMPROVEMENT, SPECIAL
TRAFFIC BARRIER TERMINAL TYPE 6 (37.5')
SPBG - TYP A (TOTAL LENGTH = 400')
TOTAL LON = 475'
STA. 2367+52.22 (LARRY POWER RD) = STA. 367+52.22 (I-57)
PROP. R.O.W.
EXIST. R.O.W.
LIMITS OF CONSTRUCTION
EXIST. R.O.W.
BEGIN MULTI-USE PATH 1:20 TAPER +32
WOVEN WIRE FENCE, 4'
LON < 75'
TBT TYPE 6 WITH BACKSIDE GUARDRAIL PROTECTION
TBT TYPE 1 SPECIAL (TANGENT)
PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
1:20 TAPER
10'
5'
36'
18'
10'
+99.83
COMBINATION CONCRETE CURB & GUTTER B-6.12
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 10¾" AND AGGREGATE SUBGRADE IMPROVEMENT
TRAFFIC BARRIER TERMINAL TYPE 6 (37.5')
SPBG - TYP A (TOTAL LENGTH = 450')
TOTAL LON = 525'
WOVEN WIRE FENCE, 4'
EXIST. R.O.W.
LIMITS OF CONSTRUCTION
MATCHLINE STA. 2371+00
N

VPI STA. 2367+40.00
ELEVATION 726.90
+4.85%
-4.40%
+05.00 EL. 715.51
+75.00 EL. 716.56
470.00' V.C.

725
720
715
710

715.14 715.26 | 716.77 717.49 | 717.98 719.22 | 718.59 720.47 | 719.02 721.22 | 719.36 721.48 | 719.01 721.25 | 718.58 720.52 | 718.24 719.31 | 717.17 717.60 | 715.75 715.46 | 713.90 713.26 | 711.48 711.06

2365+00 2365+50 2366+00 2366+50 2367+00 2367+50 2368+00 2368+50 2369+00 2369+50 2370+00 2370+50 2371+00

PLAN
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BY
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AUGMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET 2 OF 3 SHEETS | STA. 2365+00 TO STA. 2371+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	24
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

MATCHLINE STA. 2371+00

EXIST. R.O.W.

LIMITS OF CONSTRUCTION

HOT-MIX ASPHALT MULTI-USE PATH

PROP. R.O.W.

EXIST. R.O.W.

10'

5'

36'

18'

18'

2375+00

COMBINATION CONCRETE CURB & GUTTER B-6.12

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 10¾"
AND AGGREGATE SUBGRADE IMPROVEMENT

(37.5')

(12.5')

SPBG - TYP A
(TOTAL LENGTH = 450')

LIMITS OF CONSTRUCTION

EXIST. R.O.W.

TEMP. EASEMENT

EXIST. R.O.W.

TRAFFIC BARRIER TERMINAL
TYPE 1, SPL (TANGENT)
(50')

COMMERCIAL ENTRANCE
DRIVEWAY PAV'T REMOVAL &
PCC DRIVEWAY PAV'T 8"

TOTAL LON =
525'

COMMERCIAL ENTRANCE
DRIVEWAY PAV'T REMOVAL &
PCC DRIVEWAY PAV'T 8"

N

325.00' V.C.

+29.13 EL. 705.38

+54.13 EL. 698.37

-4.40%

+0.09%

VPI STA. 2373+91.63
ELEVATION 698.25

698.46

	710	705	700	695
2371+00	711.48 / 711.06			
2371+50		708.89 / 708.86		
2372+00			706.32 / 706.66	
2372+50				703.95 / 704.49
2373+00			701.92 / 702.61	
2373+50				700.21 / 701.07
2374+00				698.97 / 699.88
2374+50				698.33 / 699.03
2375+00				698.18 / 698.53
2375+50				698.32 / 698.37
2376+00				698.35 / 698.42

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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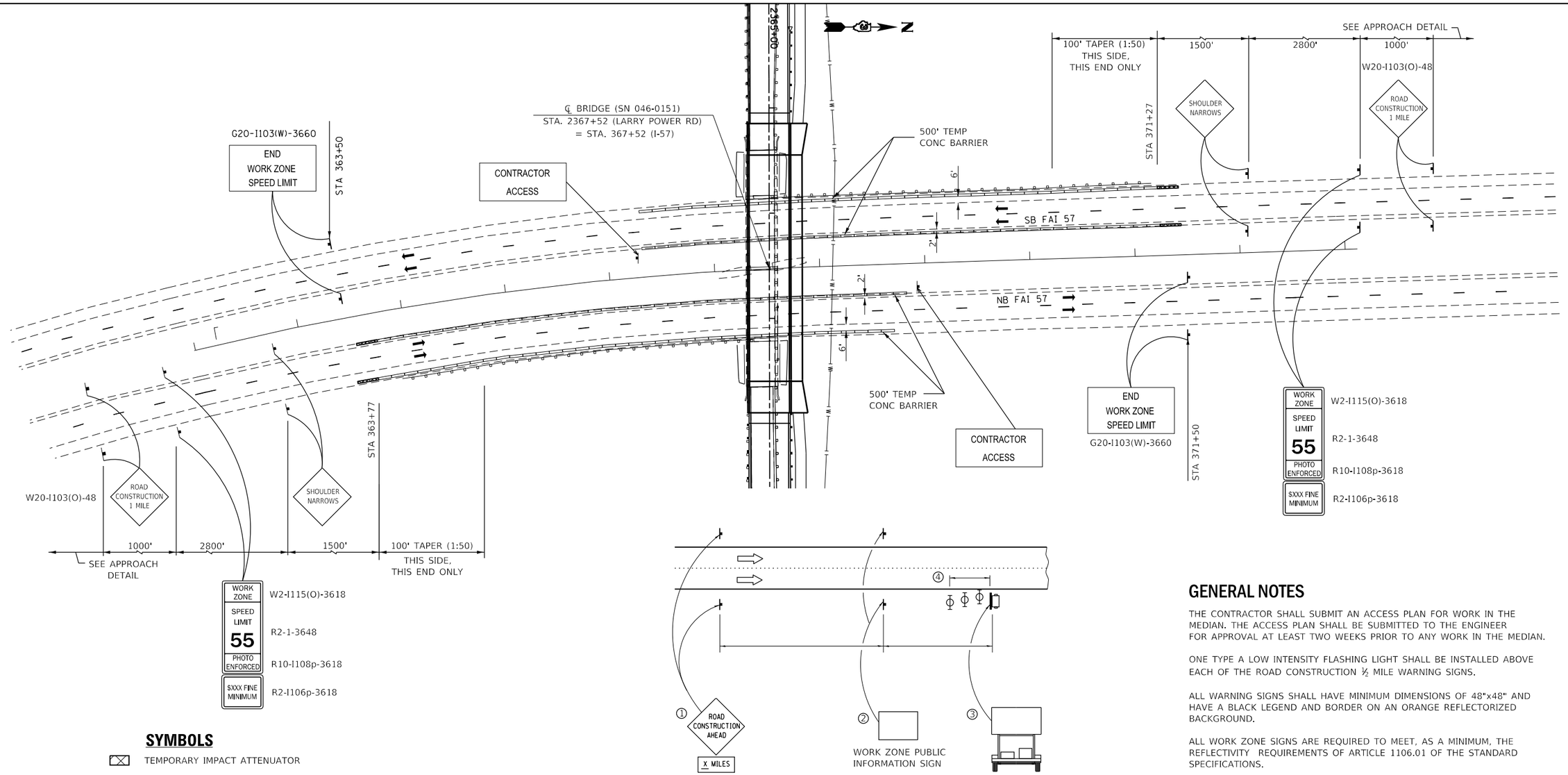
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

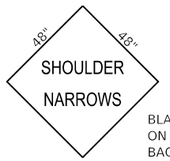
SCALE: 1" = 20' | SHEET 3 OF 3 SHEETS | STA. 2371+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	25
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	



SYMBOLS

- TEMPORARY IMPACT ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN ON PERMANENT SUPPORT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT



BLACK LEGEND AND BORDER ON REFLECTORIZED ORANGE BACKGROUND

SIGN DETAIL

APPROACH DETAIL

① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS.

② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.

③ THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:

"SHOULDER NARROWS" / "X MILES AHEAD" / "ALL LANES OPEN"

④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.

GENERAL NOTES

THE CONTRACTOR SHALL SUBMIT AN ACCESS PLAN FOR WORK IN THE MEDIAN. THE ACCESS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANY WORK IN THE MEDIAN.

ONE TYPE A LOW INTENSITY FLASHING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE ROAD CONSTRUCTION ½ MILE WARNING SIGNS.

ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48"x48" AND HAVE A BLACK LEGEND AND BORDER ON AN ORANGE REFLECTORIZED BACKGROUND.

ALL WORK ZONE SIGNS ARE REQUIRED TO MEET, AS A MINIMUM, THE REFLECTIVITY REQUIREMENTS OF ARTICLE 1106.01 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE POST MOUNTED.

LONGITUDINAL DIMENSIONS FOR PLACEMENT OF SIGNS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, AS APPROVED BY THE ENGINEER.

ALL TRAFFIC CONTROL DEVICES SHOWN SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001 AND WILL BE PAID FOR SEPARATELY.

TEMPORARY IMPACT ATTENUATORS WILL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER EACH FOR "IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 3". ATTENUATOR BASES, WHEN REQUIRED BY THE MANUFACTURER, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE TEMPORARY IMPACT ATTENUATORS.

UNLESS NOTED AS PAID FOR SEPARATELY, ALL TRAFFIC CONTROL WORK SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."

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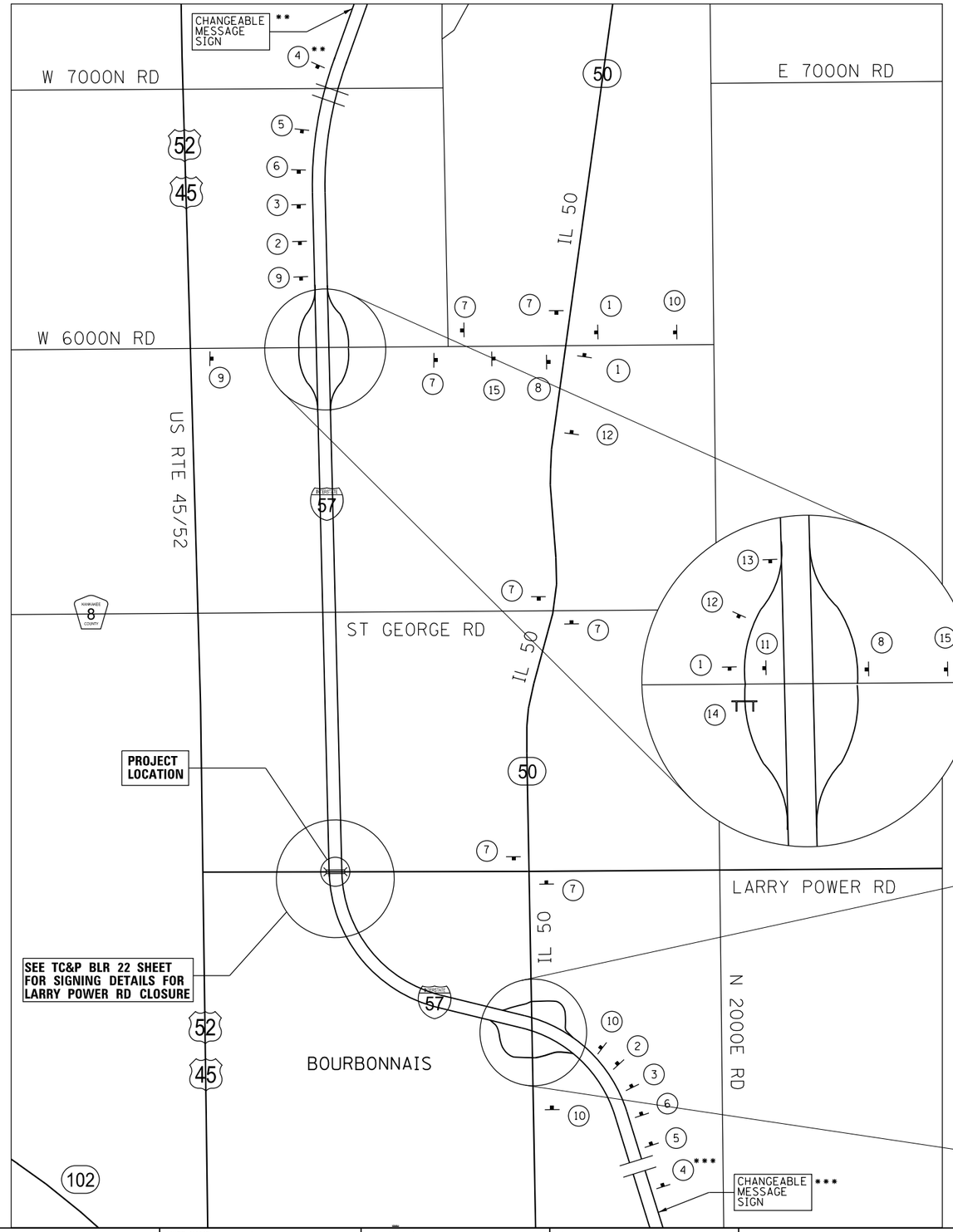
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
I–57 SHOULDER CLOSURE PLAN

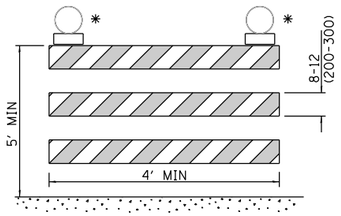
SCALE: | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	26
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		



** THESE ITEMS TO BE PLACED IMMEDIATELY SOUTH OF THE RT. 9 I-57 INTERCHANGE.

*** THESE ITEMS TO BE PLACED IMMEDIATELY NORTH OF I-57 BRIDGE OVER THE KANKAKEE RIVER



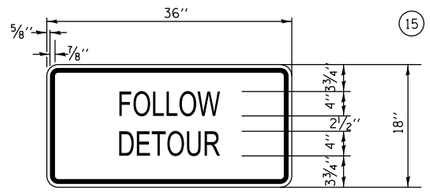
TYPE III BARRICADE

- WARNING LIGHTS INCLUDED

LEGEND

- FLASHING LIGHT
- 18" x 8" ORANGE FLAG
- SIGN
- TYPE III BARRICADE

1	DETOUR / INTERSTATE 57 / ←	M4-8 2412 M1-1 M6-1 2115	
2	INTERSTATE 57 / ROAD CLOSED 1/2 MILE AHEAD	M1-1 R11-3a 6030	
3	INTERSTATE 57 / ROAD CLOSED 1 MILE AHEAD	M1-1 R11-3a 6030	
4	INTERSTATE 57 / ROAD CLOSED 5 MILES AHEAD	M1-1 R11-3a 6030	
5	DETOUR AHEAD	W20-2 4848	
6	ROAD CLOSED AHEAD	W20-3 4848	
7	DETOUR / INTERSTATE 57 / ↑	M4-8 2412 M1-1 M6-3 2115	
8	DETOUR / INTERSTATE 57 / →	M4-8 2412 M1-1 M6-1 2115	
9	SOUTH / INTERSTATE 57 / ROAD CLOSED / FOLLOW DETOUR	M3-3 2412 M1-1 R11-2 4830 SEE "SIGN DETAIL" THIS SHEET	
10	NORTH / INTERSTATE 57 / ROAD CLOSED / FOLLOW DETOUR	M3-1 2412 M1-1 R11-2 4830 SEE "SIGN DETAIL" THIS SHEET	
11	SOUTH / INTERSTATE 57 / ROAD CLOSED	M3-3 2412 M1-1 R11-2 4830	
12	DETOUR / INTERSTATE 57 / ↰	M4-8 2412 M1-1 M5-1 2115	
13	DETOUR / INTERSTATE 57 / ↗	M4-8 2412 M1-1 M6-21 2115	
14	RAMP CLOSED	R11-2 4830	
15	DETOUR / INTERSTATE 57 / ↱	M4-8 2412 M1-1 M5-1 2115	



SIGN DETAIL

SIGN PANEL - TYPE 1

NOTES:

1. AREA = 4.50 SQ. FT.
2. TOTAL AREA REQUIRED (4 SIGNS) = 18.0 SQ. FT.
3. 4" SERIES LETTERS
4. LEGEND = BLACK
5. BACKGROUND = ORANGE FLUORESCENT

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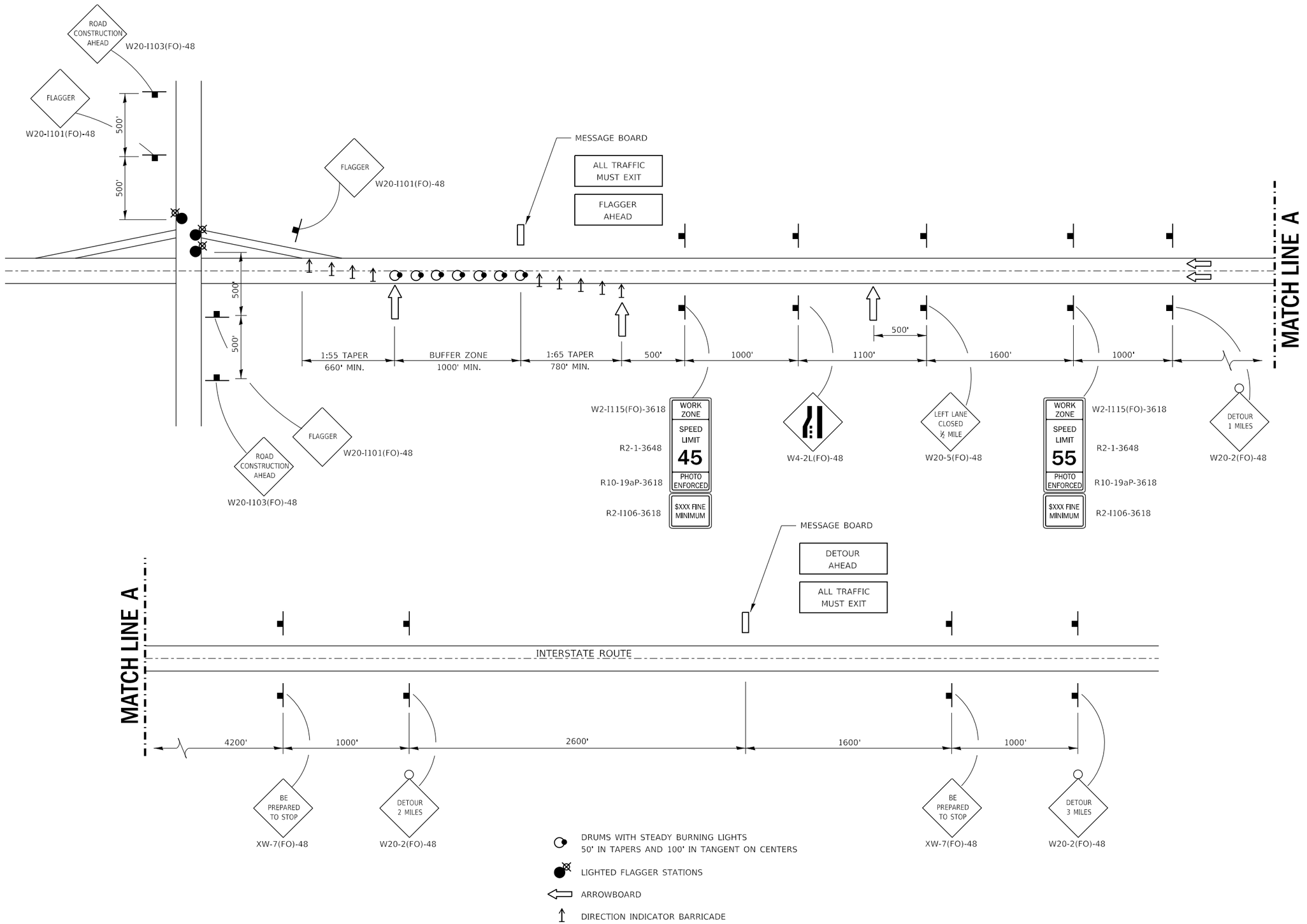
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION (SPECIAL)
I-57 TOTAL ROAD CLOSURE SIGNAGE

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	27
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



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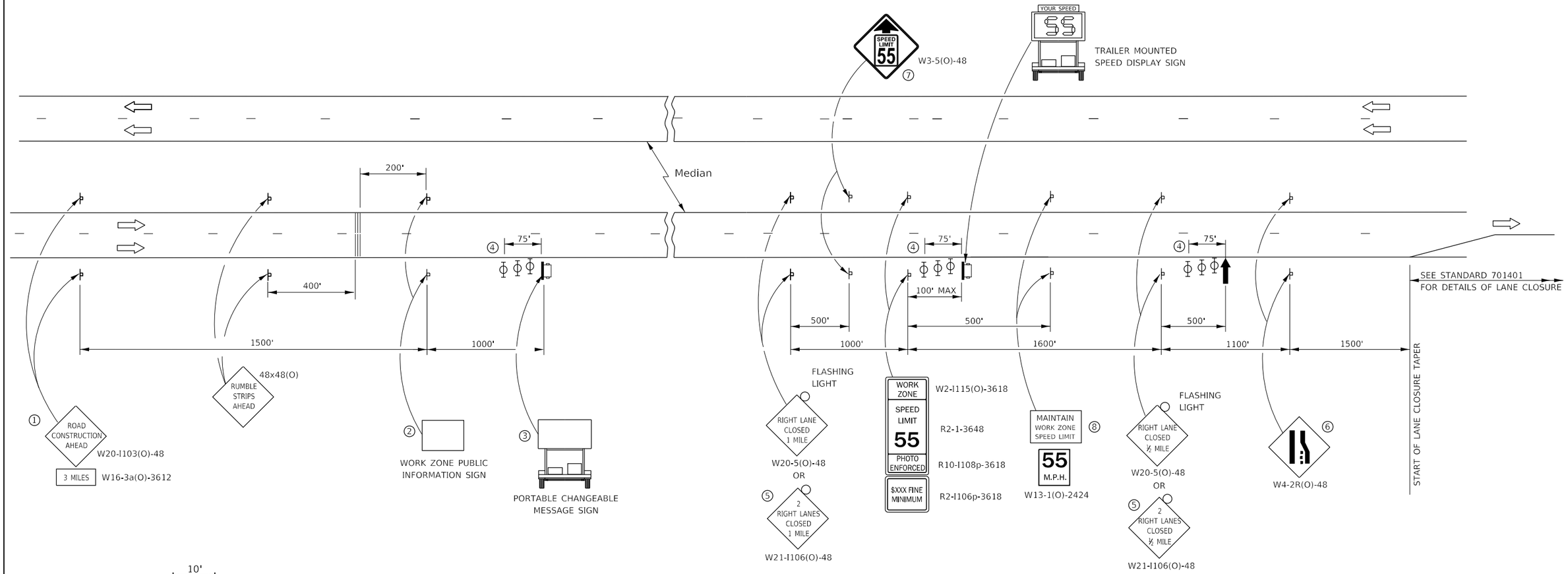
PLOT DATE = 8/15/2019	DATE -	REVISED -	

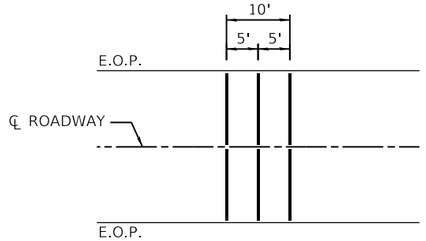
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION (SPECIAL)
TOTAL NIGHTTIME CLOSURE OF I-57

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	28
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			





TEMPORARY RUMBLE STRIP (SEE SPECIAL PROVISIONS)

① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.

② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.

③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"

④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.

⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.

⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.

⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.

48"

36"	MAINTAIN	8"
	WORK ZONE	6"
	SPEED LIMIT	6"

ARROW BOARD

PORTABLE CHANGEABLE MESSAGE SIGN

SIGN

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

TEMPORARY RUMBLE STRIPS (SEE DETAIL & SPECIAL PROVISION)

SPEED DISPLAY TRAILER

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST THREE SIGNS, RUMBLE STRIPS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION STANDARD 701400 (SPECIAL)
APPROACH TO FREEWAY LANE CLOSURE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	29
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

ROAD CLOSED AHEAD
W20-3(O)-48
M6-1
2115
(BLK ON FLR ORANGE)

ROAD CLOSED 500'
W20-3(O)-48

BRIDGE OUT
200 FEET AHEAD
LOCAL TRAFFIC ONLY
R11-3B-6030

ROAD CLOSED
R11-2-4830

±500'

BRIDGE OUT
1/2 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3B-6030

US 45/52

MEADOWS RD

2360+00

2362+00

±1800'

500'

ROAD CLOSED AHEAD
W20-3(O)-48
M6-1
2115
(BLK ON FLR ORANGE)

TYPE 3 BARRICADE WITH FLASHING BEACON
FLASHING BEACON
WARNING FLAG
WORK AREA
WORK AREA TO BE STAGED TO MAINTAIN LOCAL ACCESS

ROAD CLOSED AHEAD
W20-3(O)-48
M6-1
2115
(BLK ON FLR ORANGE)

500'

±1700'

BRIDGE OUT
1/2 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3B-6030

±500'

BRIDGE OUT
1000 FEET AHEAD
LOCAL TRAFFIC ONLY
R11-3B-6030

ROAD CLOSED 500'
W20-3(O)-48

ROAD CLOSED
R11-2-4830

2375+00

2380+00

COMMERCE DR

IL 50

ROAD CLOSED AHEAD
W20-3(O)-48
M6-1
2115
(BLK ON FLR ORANGE)

±500'

MODEL: Default
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PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22
LARRY POWER ROAD CLOSURE PLAN

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

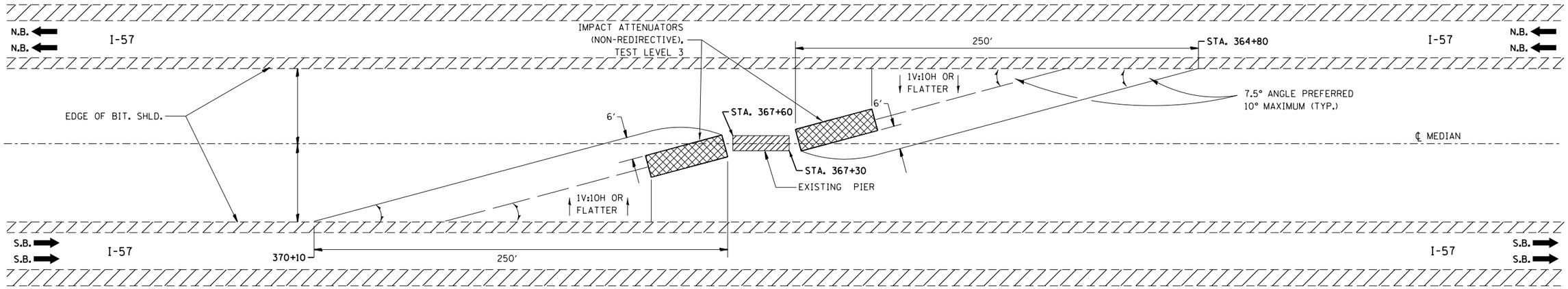
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	30
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

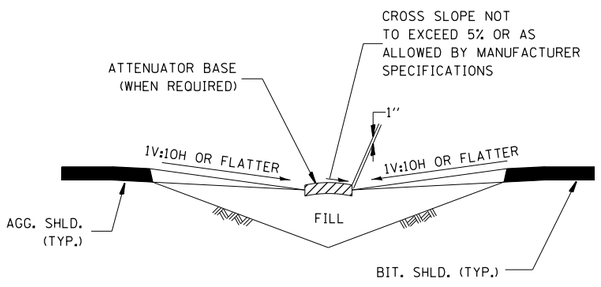
1. THE 10:1 SLOPE CONTROLS NOSE OF ATTENUATOR BASE ELEVATION.

2. ATTENUATOR BASE GRADE PARALLELS EDGE OF PAVEMENT GRADE.

3. SLOPE ADJACENT TO ATTENUATOR BASE SHALL BE 10:1 OR FLATTER.



IMPACT ATTENUATOR LAYOUT AND GRADING PLAN



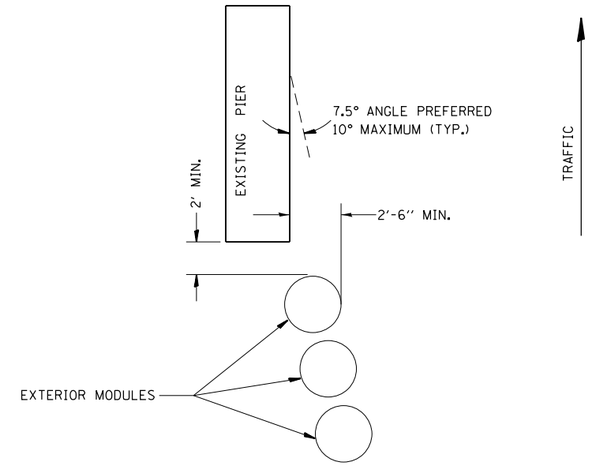
SECTION A – A

NOTE:

ATTENUATOR BASE SHALL BE PER MANUFACTURER SPECIFICATIONS EXCEPT SAND MODULE SYSTEMS SHALL HAVE THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. ATTENUATOR BASE SHALL PROVIDE A 1' BUFFER ALONG THE SIDES AND FRONT OF THE ARRAY.

2. SAND MODULE SYSTEMS SHALL BE PLACED ON A HMA OR CONCRETE BASE.



TYPICAL EXTERIOR MODULE LAYOUT

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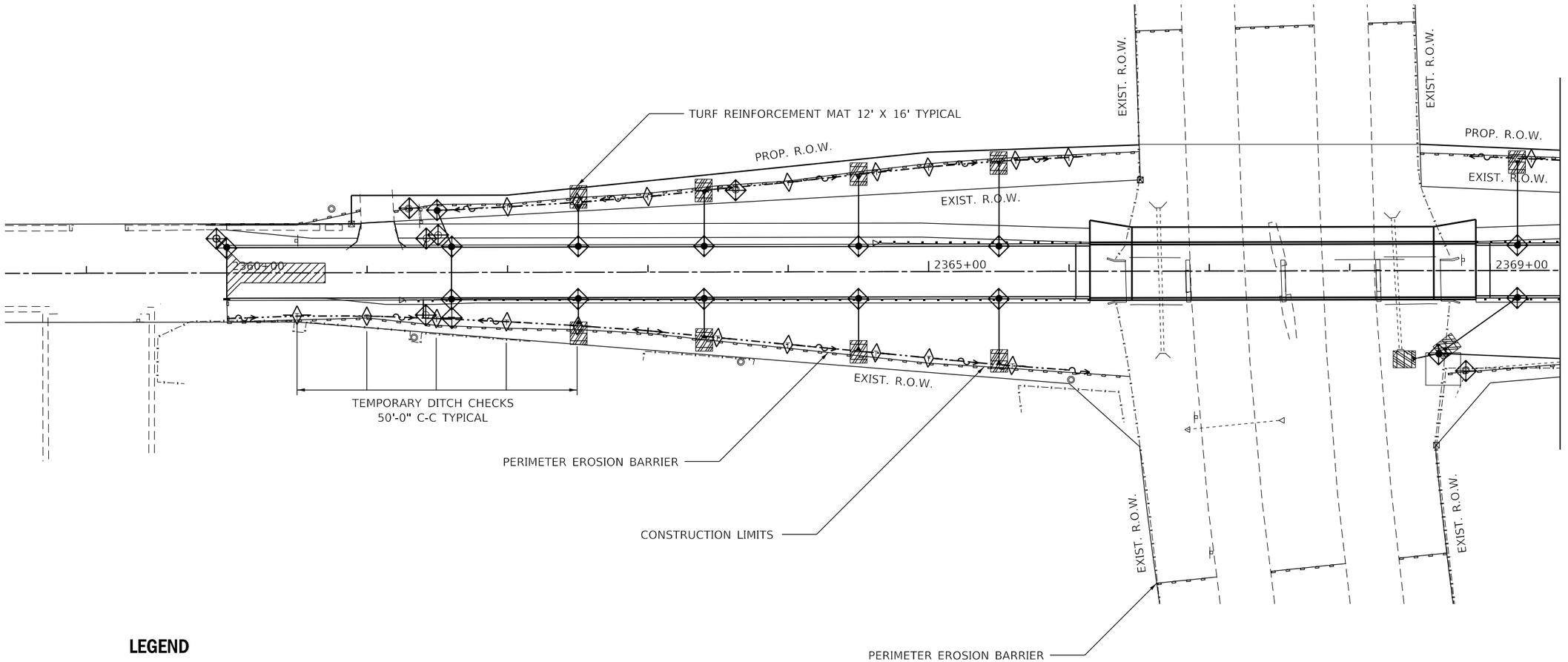
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IMPACT ATTENUATOR LAYOUT
I-57

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	31
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TURF REINFORCEMENT MAT
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- DITCH FLOW
- STABILIZED CONSTRUCTION ENTRANCE

N

0 40 80 120

SCALE IN FEET

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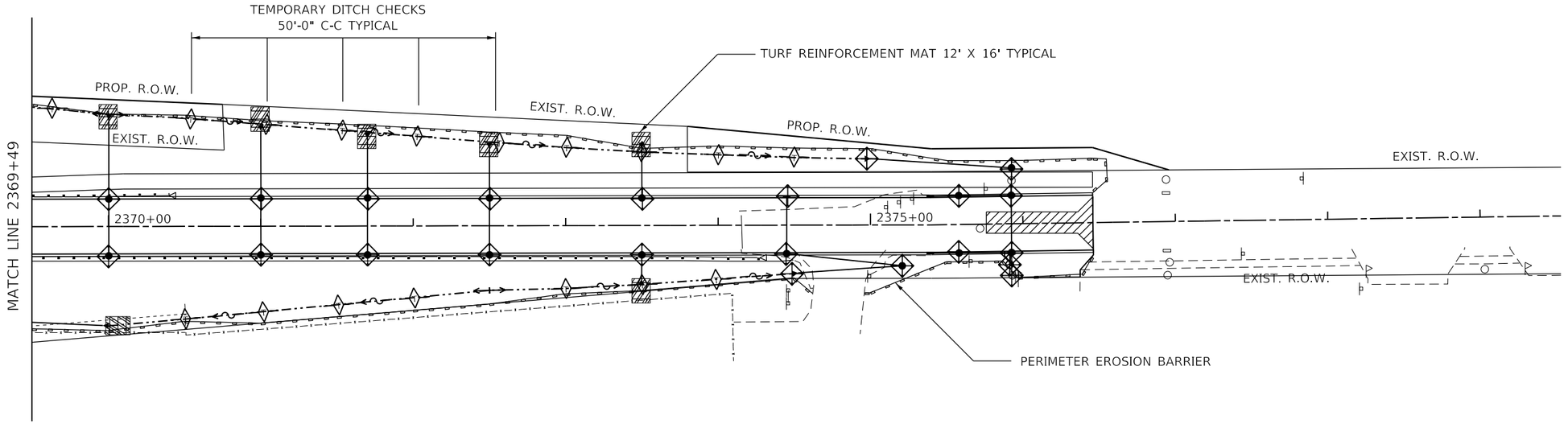
	DRAWN -	REVISED -	
PLOT SCALE = 80.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1) HBR-2	KANKAKEE	87	32
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TURF REINFORCEMENT MAT
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- DITCH FLOW
- STABILIZED CONSTRUCTION ENTRANCE

N

0 40 80 120

SCALE IN FEET

MODEL: Default
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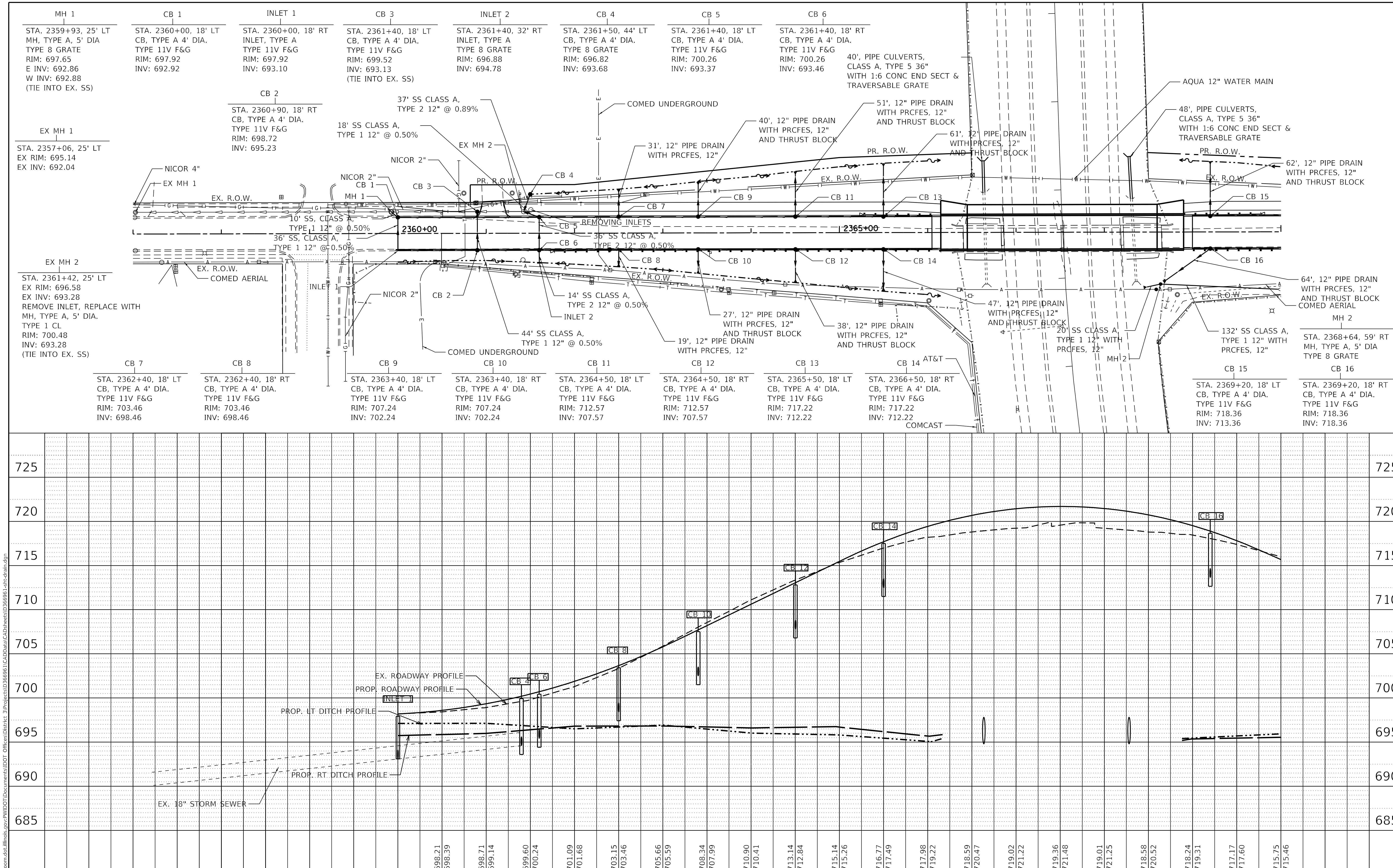
	DRAWN -	REVISED -	
PLOT SCALE = 80.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1) HBR-2	KANKAKEE	87	33
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		



PLAN | NOTE BOOK NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

PROFILE | NOTE BOOK NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CH'KD | BY | DATE

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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/16/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLANS

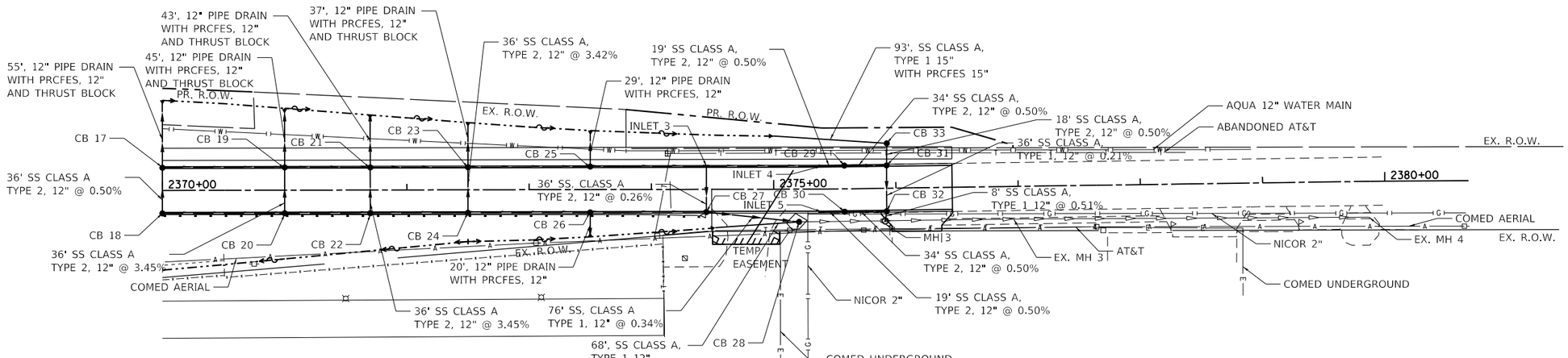
SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	34

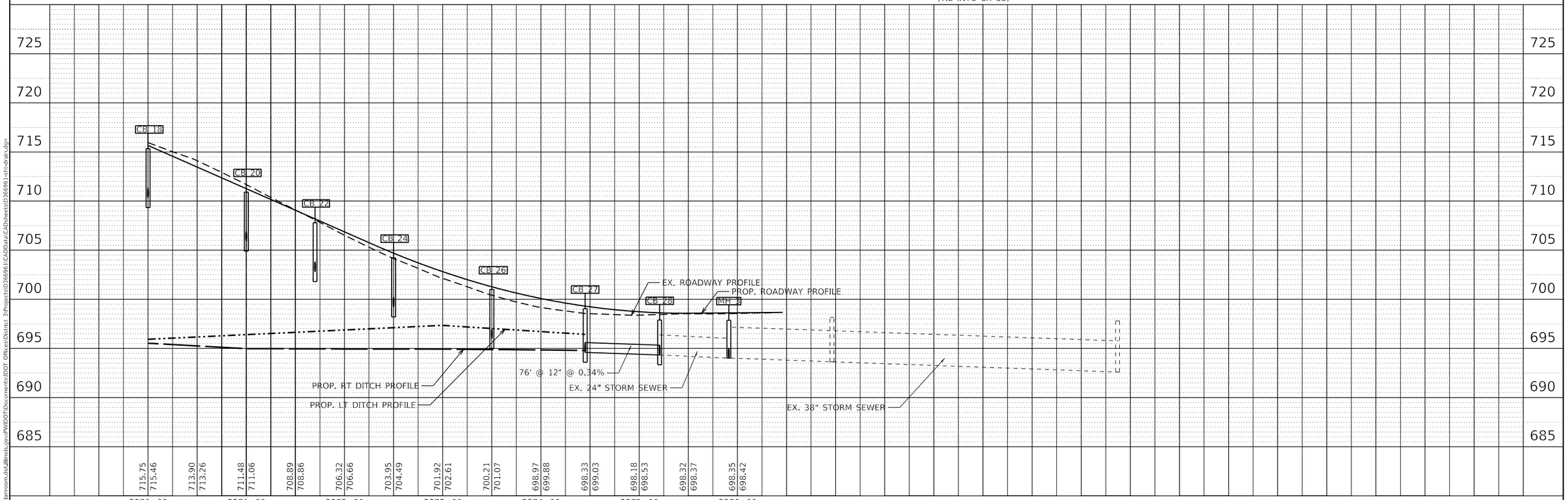
CONTRACT NO. 66961

ILLINOIS | FED. AID PROJECT

CB 17	CB 18	CB 19	CB 20	CB 21	CB 22	CB 23	CB 24	CB 25	CB 26	INLET 3	CB 27	CB 28
STA. 2370+00, 18' LT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 715.19 INV: 710.01	STA. 2370+00, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 715.19 INV: 710.19	STA. 2370+95, 18' LT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 710.79 INV: 704.82	STA. 2371+00, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 710.79 INV: 706.12	STA. 2371+70, 18' LT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 707.71 INV: 701.74	STA. 2371+70, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 707.71 INV: 701.92	STA. 2372+50, 18' LT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 704.22 INV: 699.03	STA. 2372+50, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 704.22 INV: 700.32	STA. 2373+50, 18' LT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 700.80 INV: 695.80	STA. 2373+50, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 700.80 INV: 695.80	STA. 2374+45, 18' LT INLET, TYPE A TYPE 11V F&G RIM: 699.04 INV: 694.70	STA. 2374+45, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 699.04 INV: 694.60	STA. 2375+21, 27' RT CB, TYPE A 4' DIA. TYPE 8 GRATE RIM: 697.89 INV: 694.34 (TIE INTO EX SS)



INLET 4	INLET 5	CB 29	CB 30	CB 31	CB 32	CB 33	MH 3	EX. MH 3	EX. MH 4
STA. 2375+39, 18' LT INLET TYPE A TYPE 11V F&G RIM: 698.31 INV: 694.40	STA. 2375+39, 18' RT INLET TYPE A TYPE 11V F&G RIM: 698.31 INV: 694.32	STA. 2375+58, 18' LT INLET, TYPE A TYPE 11V F&G RIM: 698.31 INV: 694.30	STA. 2375+58, 18' RT INLET, TYPE A TYPE 11V F&G RIM: 698.31 INV: 694.22	STA. 2375+92, 18' LT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 698.35 INV: 694.13	STA. 2375+92, 18' RT CB, TYPE A 4' DIA. TYPE 11V F&G RIM: 698.35 INV: 694.05	STA. 2375+92, 36' LT CB, TYPE A 4' DIA. TYPE 8 GRATE RIM: 696.21 INV: 694.22	STA. 2375+91, 27' RT MH, TYPE A, 5' DIA. TYPE 8 GRATE RIM: 697.86 INV: 694.01 (TIE INTO EX SS)	STA. 2376+96, 27' RT RIM: 698.16 INV: 693.50	STA. 2379+87, 29' RT RIM: 697.80 INV: 692.60



USER NAME = nugentaj	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/16/2019	DATE -	REVISED -	

DRAINAGE AND UTILITY PLANS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	35
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

PLAN — SURVEYED, PLOTTED, CHECKED, QUANTITIES, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE, PLOT SHEET CHECKED, RT. OF WAY CHECKED, CAiD FILE NAME

PROFILE — SURVEYED, PLOTTED, CHECKED, QUANTITIES, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

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SW 1/4 OF SEC. 8, T.31N., R.12E. OF THE 3RD P.M.

SE 1/4 OF SEC. 8, T.31N., R.12E. OF THE 3RD P.M.

N 1/4 COR SEC. 8
SET CUT "+"
MONUMENT RECORD #201200780
N = 1,648,468.03
E = 1,112,707.95

PROP. CURVE 57NRTH-3
PI STA. = 352+38.87
Δ = 74° 47' 29" (RT)
D = 1° 59' 59"
R = 2,865.38'
T = 2,190.41'
L = 3,740.35'
E = 741.32'
e = N.C.
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 330+48.46
P.T. STA. = 367+88.81

3XB0001

DARYL L. BURNS

TOTAL HOLDING = 29.130 AC.±
TOTAL R.O.W. REQUIRED = 0.028 AC.± (1,207 SQ. FT.)
REMAINDER = 29.102 AC.±

3XB0002

CHURCH OF CHRIST IN BOURBONNAIS

TOTAL HOLDING = 5.000 AC.±
TOTAL R.O.W. REQUIRED = 0.249 AC.±
REMAINDER = 4.751 AC.±

3XB0003

NUCOR STEEL KANKAKEE, INC.

TOTAL HOLDING = 334.831 AC.±
TOTAL R.O.W. REQUIRED = 0.535 AC.±
TRACT 1 = 0.154 AC.±
TRACT 2 = 0.381 AC.±
AREA IN EXIST. R.O.W. = 0.240 AC.±
TRACT 1 = 0.000 AC.±
TRACT 2 = 0.240 AC.±
NET R.O.W. REQUIRED = 0.295 AC.±
TRACT 1 = 0.154 AC.±
TRACT 2 = 0.141 AC.±
REMAINDER = 334.296 AC.±

FOR INFORMATION ONLY

JAMES BERNARD PROFESSIONAL PARK (DOC. #2007160S)

2360+84.06 ℄ W. LINE E 1/2 E 1/2 SW 1/4 2361+50.06

EXISTING ACCESS CONTROL ENDS STA. 2361+34.37

CHURCH

EXISTING WEST R.O.W. LINE

EXISTING EAST R.O.W. LINE

S 1/4 COR SEC. 8
N 1/4 COR SEC. 17
RECOVERED CHISELED "+"
2367+45.36 - 0.37' LT.
367+52.88 - 6.84'
MONUMENT RECORD #201200780
N = 1,643,141.66
E = 1,112,928.10
P.O.C. 3XB0001, 3XB0002, 3XB0003-TRACT 1 & TRACT 2, 3XB0004 & 3XB0005

N02°22'00.0"W 5,330.92' (℄)

PROPOSED ℄ FAI 57 (I-57)

370+00

FAI 57

N01°50'43"W (℄)

2361+34.37
55.00'
END A.C.

2360+82.00
55.00'

2362+00.00
55.00'

2365+00.00
85.00'

2366+49.21
90.00'

368+45.29
100.00'

N89°53'21"E PROPOSED R.O.W./A.C. LINE
50.42'

N84°10'42"E 301.50'

N87°58'13"E 149.30'

3XB0001

3XB0002

N02°16'25"W 19.71'

N89°53'21"E 67.58'

A 2360+82.74 35.30'

S86°52'12"W 67.07'

S00°37'01"E 16.17'

S86°52'12"W 500.94'

S01°50'43"E 24.79'

C 368+20.50 100.00'

2366+49.96 65.22'

EXISTING NORTH R.O.W./AC LINE PER CASE NO. 32438

S89°52'59"W 595.30'

S. LINE SW 1/4

N89°52'59"E 2,645.18' (℄)

2360+00

2365+00

N89°53'21"E (℄)

PROPOSED ℄ LARRY POWER ROAD

N00°37'01"W 38.53'

P.O.B. 3XB0003 TRACT 1

2368+50.20
60.40
368+09.62
100.00

P.T. STA. = 367+88.81

D

N89°52'29"E 104.84'

2370+00

N89°52'29"E 736.29'

2368+49.30
90.00
368+39.24
100.00'

PROPOSED R.O.W./A.C. LINE

N01°50'43"W 29.62'

S87°41'06"E 225.53'

2370+74.63
80.45

S01°47'31"E 30.01'

3XB0003 TRACT 1

N87°35'01"W 225.52'

EXISTING NORTH R.O.W./AC LINE PER DOCUMENT #518391

N00°07'31"W 65.00'

E 2370+75.51 50.45

EXISTING NORTH R.O.W./AC LINE PER DOCUMENT #517087

N89°52'29"E 634.00'

S. LINE SE 1/4

N89°52'29"E 2,647.88' (℄)

N89°53'21"E (℄)

N. LINE NE 1/4

N00°07'31"W 60.00'

P.O.B. 3XB0003 TRACT 2

2373+79.34
65.53

F EXISTING ACCESS CONTROL ENDS

2373+79.35
33.53

APPARENT NORTH R.O.W. LINE

S84°34'56"E 161.18'

3XB0003 TRACT 2

PROPOSED R.O.W.

2375+39.90
50.00

2376+46.00
50.00

S73°42'16"E 52.20'

2376+96.00
35.00

2376+96.00
32.81

S00°24'16"E 35.19'

N89°52'29"W 316.64'

N89°35'44"E (℄)

2375+00

2376+96.00

0.19' RT.

2373+79.36
0.53' LT.

SOUTH R.O.W. LINE AS MONUMENTED

SEE DETAIL

EXISTING ACCESS CONTROL ENDS STA. 2374+49.35

P.I. STA. 2375+39.90

SE COR SEC. 8
NE COR SEC. 17
RECOVERED SURVEY NAIL
MONUMENT RECORD #201200780
N = 1,643,147.44
E = 1,115,575.97

N89°35'44"E 105.97'

EXISTING SOUTH R.O.W. LINE

2360+49.36
34.70'

EXISTING ACCESS CONTROL ENDS

P.O.B. 3XB0001 & 3XB0002

2361+49.72
38.83'

B

2361+50.06
0.31' LT.

366+83.01
157.02'

2365+99.36
79.65'

366+36.40
110.00'

2366+49.92
124.75'

SW COR SEC. 8
NW COR SEC. 17
RECOVERED 1/2" IRON ROD
MONUMENT RECORD #201200780
N = 1,643,136.25
E = 1,110,282.92

VILLAGE MEADOWS SUBDIVISION FOURTH ADDITION
(DOC. #78 6302)

RECOVERED MONUMENT TABLE	
A	I.B. W/CAP 0.15' S & 0.04' W
B	I.B. 0.29' S & 0.39' E
C	I.B. 0.05' N & 0.03' E
	R.O.W. 0.51' S & 0.02' E
D	R.O.W. 0.99' N & 0.64' E
E	R.O.W. 0.16' S & 0.17' E
F	I.P. 0.06' N & 0.19' W
G	I.B. 0.25' S & 0.52' E
H	S.N. 0.26' S & 0.30' E
I	I.B. 3.09' N

I KEITH W. STODDARD, HERBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPODED F.A.I. 57 AND 5000 NORTH ROAD WAS MADE UNDER MY DIRECTION, FOR THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION AND THAT SAID SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT ALL MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARD FOR A BOUNDARY SURVEY.

DATE:

ILLINOIS PROFESSIONAL LAND SURVEYOR
NO. 3122

11-30-2018
EXPIRATION DATE

N02°22'00.0"W 5,335.09' (℄)

365+00

CURVE 57NRTH-3

(I-57)

EXISTING WEST R.O.W. LINE

EXISTING EAST R.O.W. LINE

S 1/4 COR SEC. 17
RECOVERED CHISELED "+"
MONUMENT RECORD #200800802
N = 1,637,807.60
E = 1,113,032.82

3XB0004

HOMESTAR BANK, TRUSTEE

TOTAL HOLDING = 5.600 AC.±
TEMPORARY EASEMENT = 0.008 AC.± (334 SQ. FT.)
PURPOSE: ENTRANCE CONSTRUCTION

EXISTING SOUTH R.O.W. LINE

COMMERCIAL BUILDING

366+61.87
142.24'

2368+99.37
79.59'

366+19.00
100.00'

2368+60.64
123.97'

DETAIL
NO SCALE

2374+81.66
34.45
H
P.O.B. 3XB0004TE & 3XB0005TE

2374+49.35
0.54' LT.

2374+81.65
0.55' LT.

2375+14.65
0.56' LT.

N89°52'29"E 31.66'

N89°52'29"E 23.34'

3XB0004TE

3XB0005TE

S00°07'31"E 35.00'

SOUTH R.O.W. LINE AS MONUMENTED

2375+14.66
34.44'
G

I 2374+49.36
34.46'

2374+50.00
34.45

2375+05.00
34.44

S00°06'39"E 10.56'

N00°06'39"W 10.55'

2375+05.00
45.00

2374+50.00
45.00

S89°53'21"W 23.34'

S89°53'21"W 31.66'

PROPOSED TEMPORARY EASEMENT LINE

PROPOSED TEMPORARY EASEMENT LINE

S00°07'31"E 10.55'

2374+81.66
45.00

2374+81.65

2375+14.65

3XB0005

MUNICIPAL TRUST AND SAVINGS BANK, TRUSTEE

TOTAL HOLDING = 22.060 AC.±
TEMPORARY EASEMENT = 0.006 AC.± (246 SQ. FT.)
PURPOSE: ENTRANCE CONSTRUCTION

NOTES:
1. ALL BEARINGS AND DISTANCES (GRID) ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83-2007 ADJ.)
2. GRID DISTANCE (AS LABELED) x 1.00003447 = GROUND DISTANCE

60' 0' 60' 120'

NW 1/4 OF SEC. 17, T.31N., R.12E. OF THE 3RD P.M.

NE 1/4 OF SEC. 17, T.31N., R.12E. OF THE 3RD P.M.

MODEL: Default
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	DRAWN -	REVISED -	
PLOT SCALE = 120.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

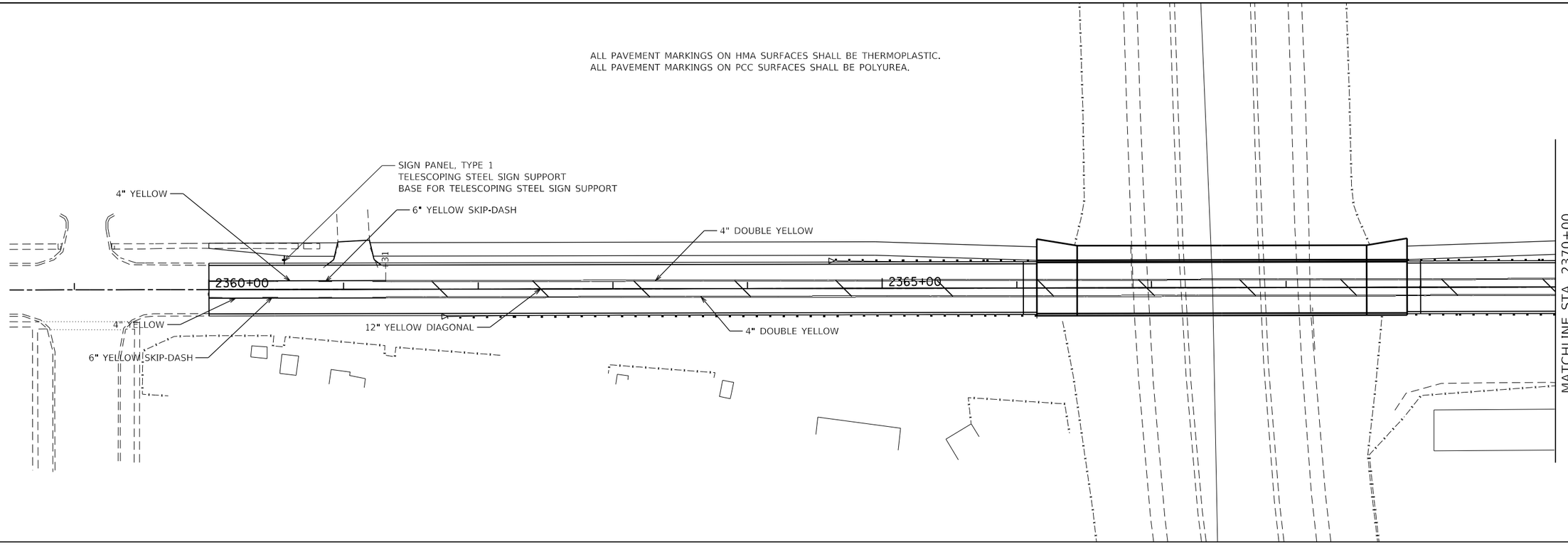
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

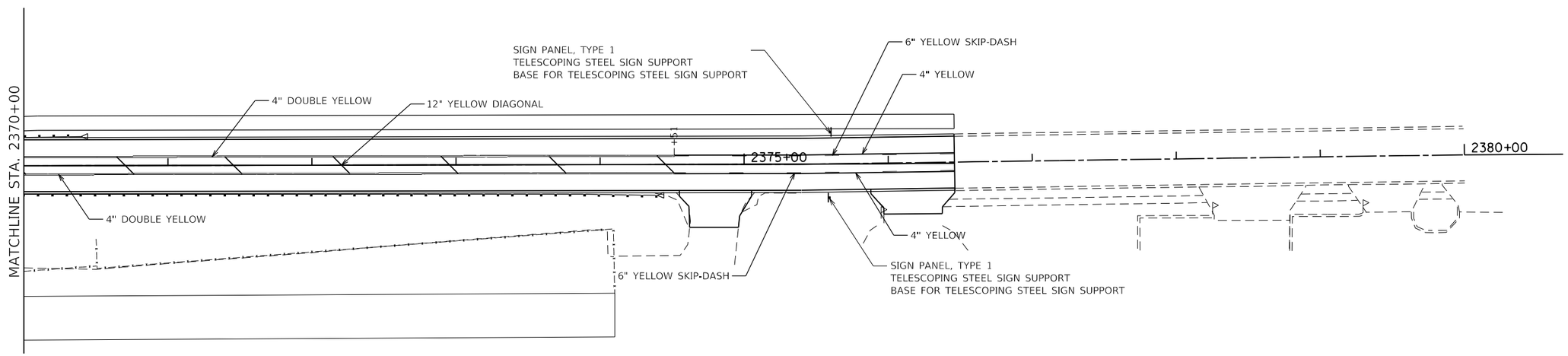
RIGHT OF WAY PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1) HBR-2	KANKAKEE	87	36
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

ALL PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC.
ALL PAVEMENT MARKINGS ON PCC SURFACES SHALL BE POLYUREA.





ALL PAVEMENT MARKINGS ON HMA SURFACES SHALL BE THERMOPLASTIC.
ALL PAVEMENT MARKINGS ON PCC SURFACES SHALL BE POLYUREA.

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	DRAWN -	REVISED -	
PLOT SCALE = 80.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

PAVEMENT MARKING PLANS

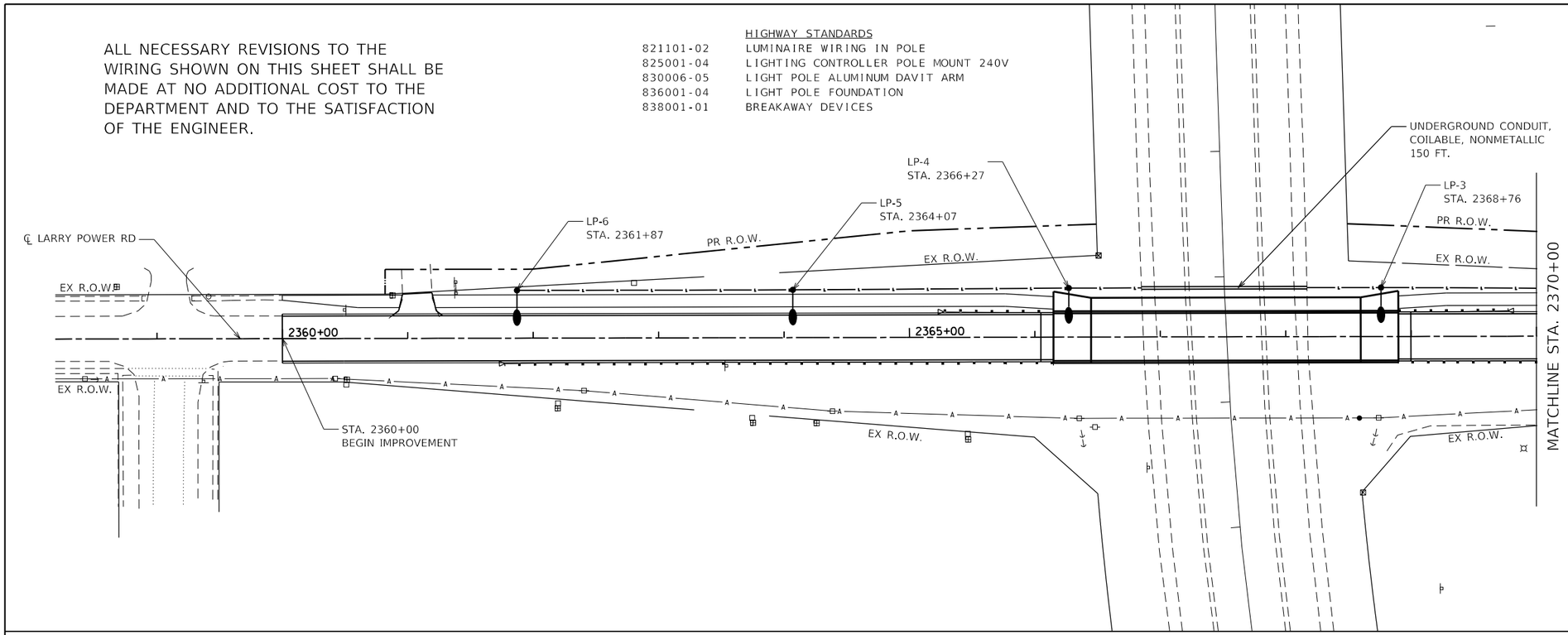
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

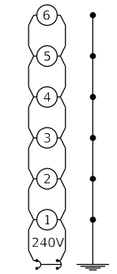
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	37
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

HIGHWAY STANDARDS

821101-02	LUMINAIRE WIRING IN POLE
825001-04	LIGHTING CONTROLLER POLE MOUNT 240V
830006-05	LIGHT POLE ALUMINUM DAVIT ARM
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES





2 POLE 20 AMP BREAKER
CKT 1

WIRING DIAGRAM

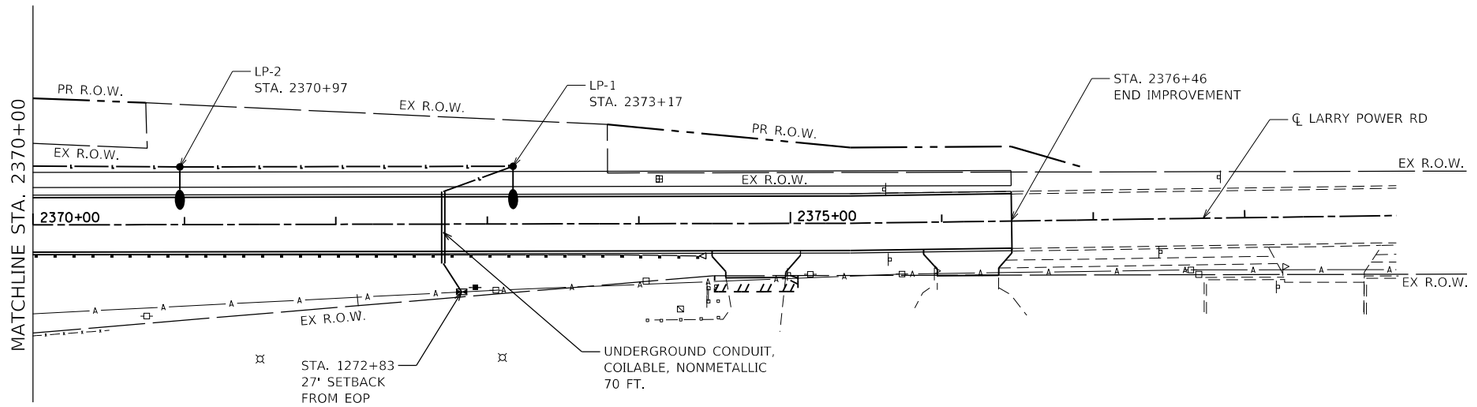
NOTE: ALL CABLE SHALL BE 600V, 2-1C NO. 10, 1-1C NO. 10 GROUND (XLP-TYPE USE), ¾" DIA. POLYETHYLENE UNLESS OTHERWISE NOTED.

LEGEND

- LUMINAIRE
- GROUND ROD

BILL OF MATERIALS

PAY ITEM	DESCRIPTION	UNIT	QTY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1360
82500300	LIGHTING CONTROLLER, POLE MOUNTED, 240V, 30AMP	EACH	1
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15FT. DAVIT ARM	EACH	6
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE 8 5/8" X 6'	EACH	6
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	24
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	6
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	220



LEGEND

- LIGHTING CONTROLLER
- ELECTRIC SERVICE
- UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.
- PROPOSED LIGHTING POLE, 45' MOUNTING HEIGHT, 15' DAVIT ARM

NOTES:

1. CONTRACTOR TO EXERCISE CAUTION WHEN INSTALLING FOUNDATIONS AND LIGHT POLES TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND AERIAL POWER CABLES AND ENSURE ADEQUATE HORIZONTAL CLEARANCE FROM OVERHEAD POWER LINES.
2. 2" DIA. CNC. TO BE BORED UNDER PAVEMENT
3. ALL LUMINAIRES ARE SET BACK 20' FROM EDGE OF PAVEMENT.
4. NO POLE TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO VE ADJUSTED IF NECESSARY AS DIRECTED BY THE ENGINEER.

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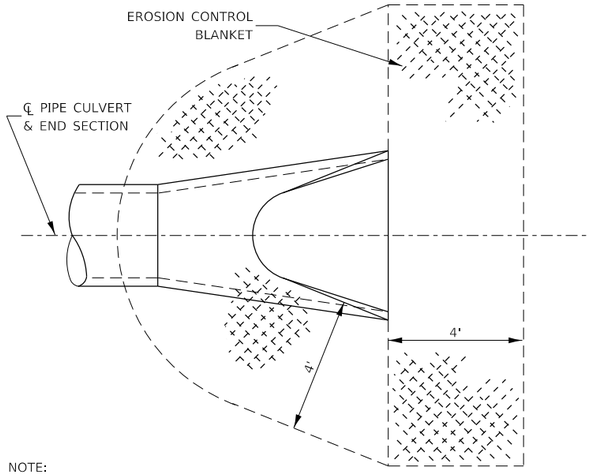
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS

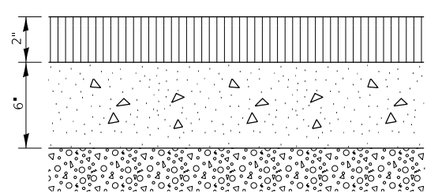
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	38
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

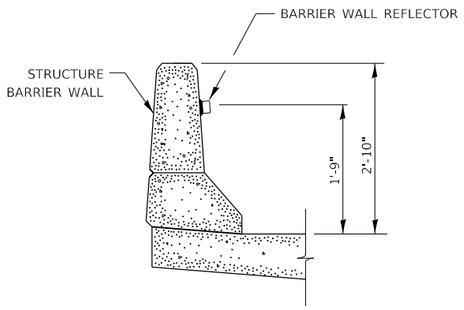


NOTE:
TO BE USED AT ALL END SECTIONS

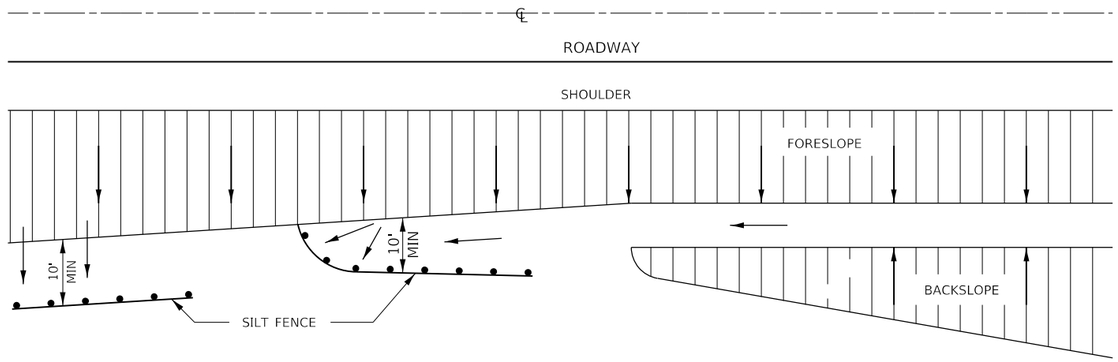
DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION

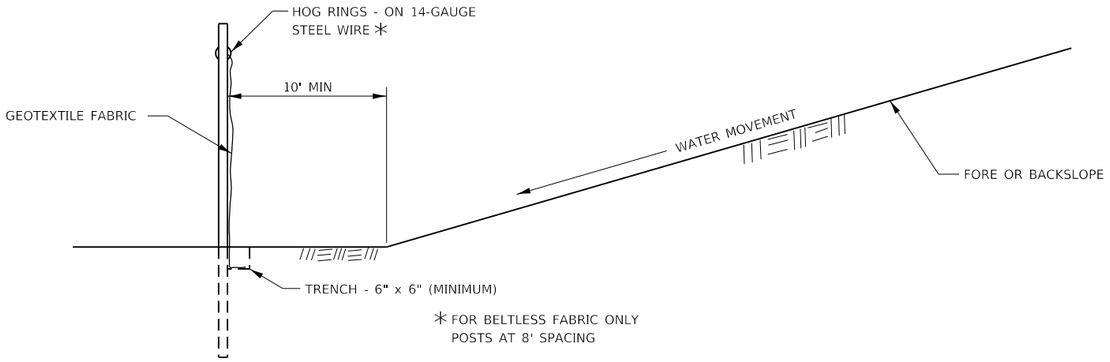


BICYCLE PATH OR SHARED-USE TRAIL CROSS SECTION



BARRIER WALL REFLECTOR





DETAILS OF SILT FENCE

EROSION CONTROL DETAILS FOR SILT FENCE

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Default	PLOT DATE = 8/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

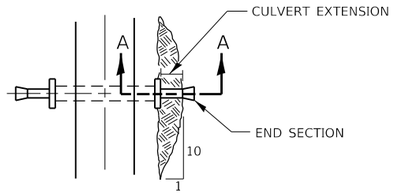
DETAILS

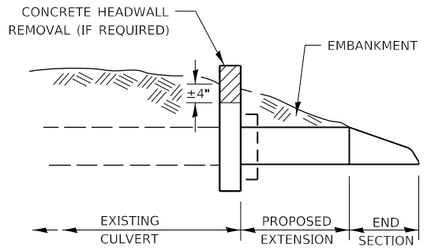
SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1) HBR-2	KANKAKEE	87	39

CONTRACT NO. 66961

ILLINOIS | FED. AID PROJECT

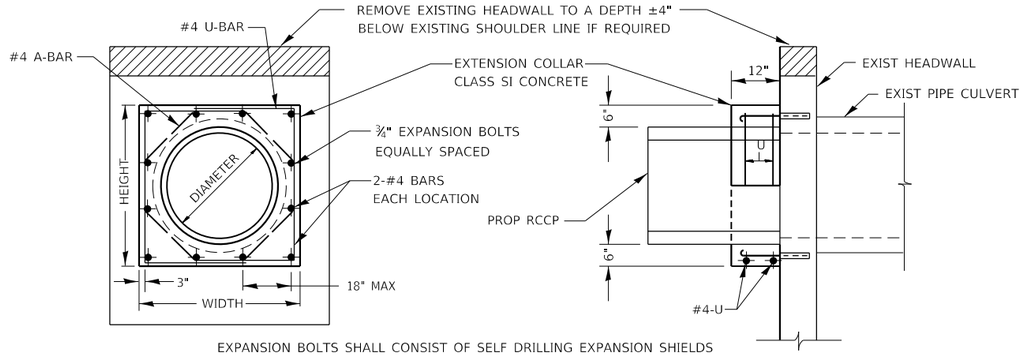




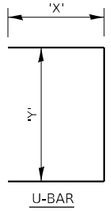
SECTION A-A

PLAN AT CULVERT EXTENSIONS

* VARIES - SEE STANDARD 606001



EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND ¾" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.
MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS

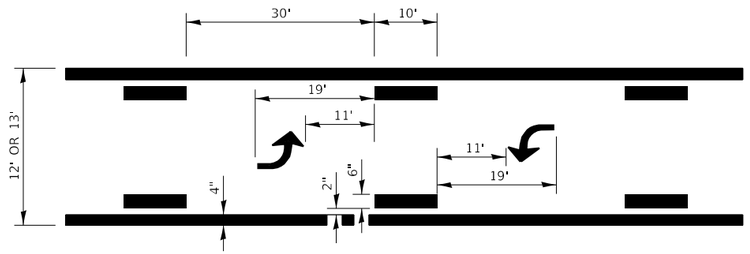


U-BAR

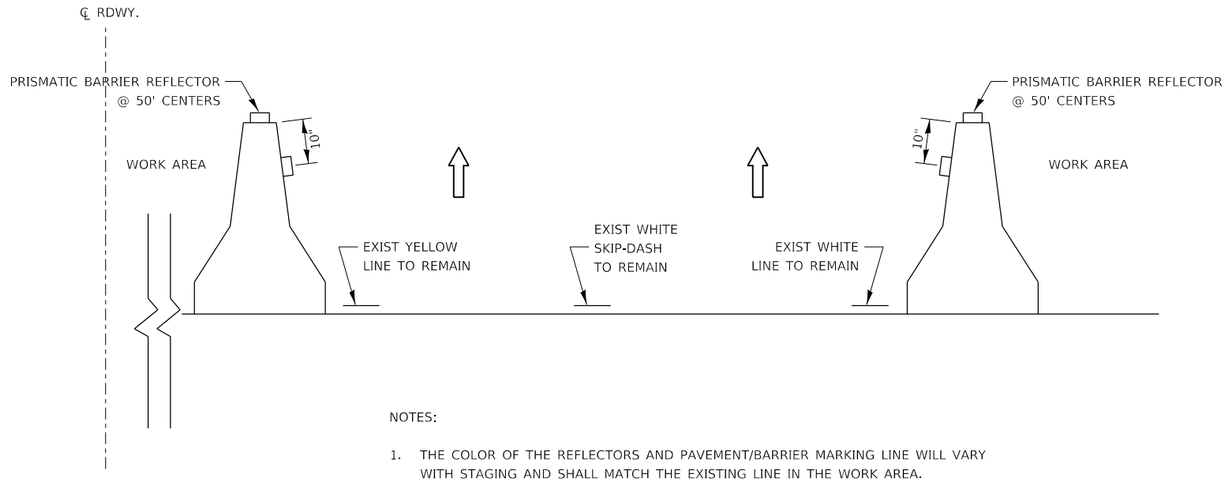
A-BAR

LOCATION	EXISTING CULVERT SIZE	PIPE DIMENSION	PIPE AREA	EXTENSION COLLAR		A-BAR	U-BAR		QUANTITIES ARE FOR ONE SIDE ONLY		
				WIDTH	HEIGHT	12	'X'	'Y'	CLASS SI CONC COLLAR	REINFORCEMENT BARS	¾" DIA EXPANSION BOLTS
STA.	DIA IN	DIA IN	SQ FT	IN	IN	IN	IN	IN	CU YD	POUND	EACH
2366+64	36	36	11	56	56	12	37	50	0.42	33	12
2368+32	36	36	11	56	56	12	37	50	0.42	33	12

COLLAR DETAIL (R.C.C.P. EXTENSION OF PIPE CULVERT)



TYPICAL APPLICATION @ BI-DIRECTIONAL TURN LANE



NOTES:

1. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.

2. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL DETAIL FOR TEMPORARY CONCRETE BARRIER

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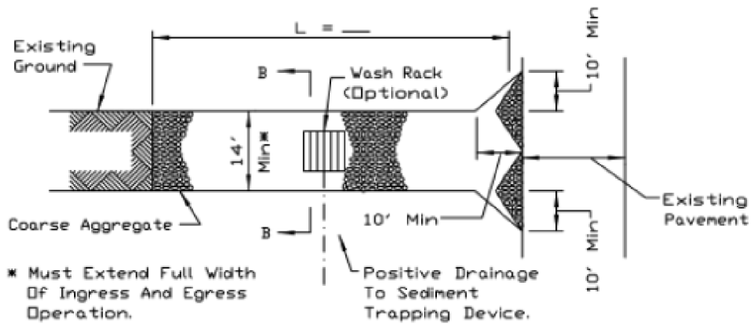
Default	PLOT DATE = 8/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

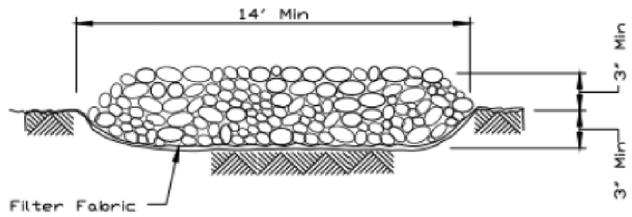
DETAILS

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

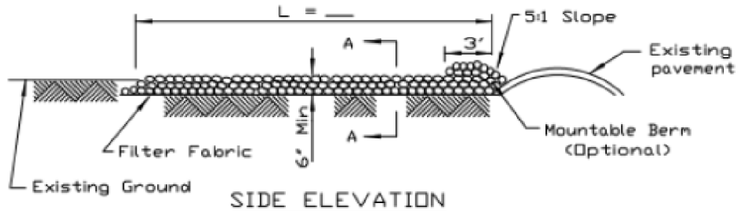
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1) HBR-2	KANKAKEE	87	40
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



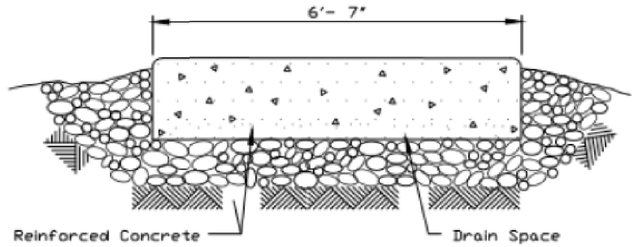
PLAN VIEW



SECTION A-A



SIDE ELELVATION



SECTION B-B

NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

STABILIZED CONSTRUCTION ENTRANCE PLAN

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		DRAWN -	REVISED -					57	46-2(1) HBR-2	KANKAKEE	87	41
	PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED -							CONTRACT NO. 66961		
Default	PLOT DATE = 8/15/2019	DATE -	REVISED -		SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

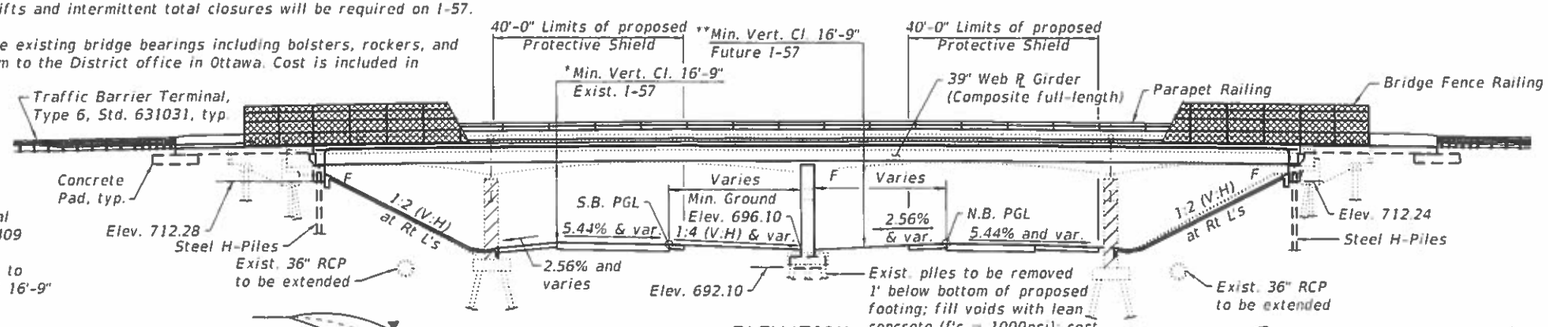
Benchmark: B.M. # 702 - Spike in power pole, Sta. 2375+73, 33' Rt, Elev. 698.32

Existing Structure: S.N. 046-0087, originally built under FAI-57, Section 46-2(1)HB-2 in 1963. Bridge consists of a four span continuous haunched R.C. deck girder superstructure supported by three hammerhead piers founded on footings supported by steel H-piles bearing on rock and two pile bent abutments. 226'-6" bk. to bk. abutments, 29'-8" out-to-out. Entire structure to be removed and replaced. Larry Power Road will be closed and traffic detoured during construction. Temporary shoulder closures, lane shifts and intermittent total closures will be required on I-57.

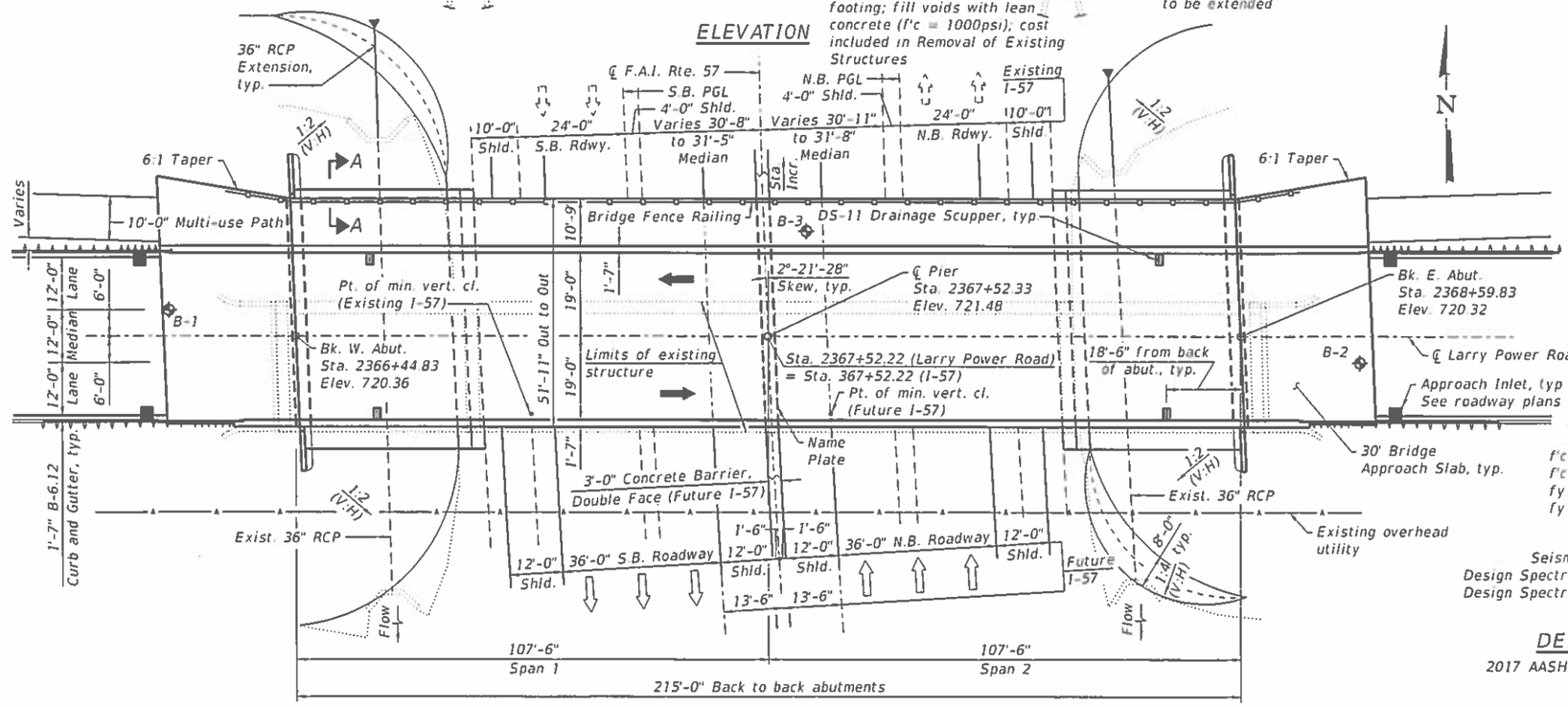
Salvage: The Contractor shall salvage the existing bridge bearings including bolsters, rockers, and bottom bearing plates and deliver them to the District office in Ottawa. Cost is included in Removal of Existing Structures.

* I-57 Profile Grade and existing vertical clearance is based on Contract No. 66409

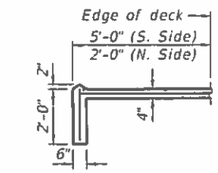
** Future I-57 Profile Grade shall be set to maintain minimum vertical clearnace of 16'-9"



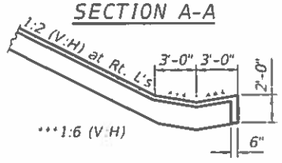
ELEVATION



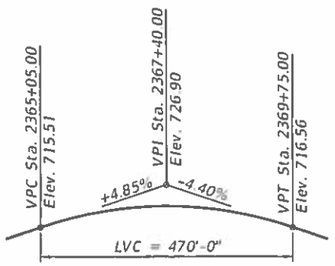
PLAN



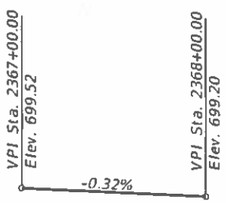
SECTION A-A



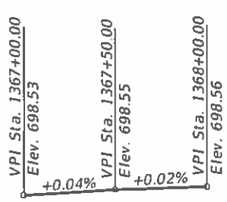
SECTION THRU CONCRETE SLOPEWALL



PROFILE GRADE
LARRY POWER ROAD
Along ℄ Roadway



* PROFILE GRADE
N.B. I-57
Along N.B. Median EOP



* PROFILE GRADE
S.B. I-57
Along S.B. Median EOP

I-57 CURVE DATA

Δ = 74°46'03" (RT)
D = 2°00'00"
T = 2,189.02'
L = 3,738.39'
E = 740.59'
S.E. = 0.0544 '/' and varies
R = 2,864.81'
P.C. = Sta. 330+48.50
P.T. = Sta. 367+86.89
P.I. = Sta. 352+37.51

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (substructure)
f'c = 4,000 psi (superstructure)
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (AASHTO M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (Sd1) = 0.065g
Design Spectral Acceleration at 0.2 sec. (Sds) = 0.120g
Soil Site Class = C

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications 8th Edition

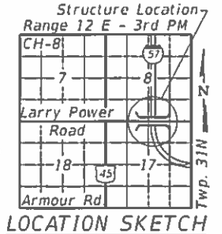
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS · FRED C. HENKLE · No. 6159 · LICENSED STRUCTURAL ENGINEER
EXPIRES 11-30-20
SIGNATURE
08-13-19
DATE

Structure Location
Range 12 E - 3rd PM



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.U. 6214 (LARRY POWER ROAD) OVER I-57
F.A.I. RTE. 57 - SECTION 46-2(1)HBR-2
KANKAKEE COUNTY
STATION 2367+52.33
STRUCTURE NO. 046-0151

ESCA ENGINEERS, INC.	USER NAME = bah	DESIGNED - RTM 1/19	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	ESCA PROJECT NO. 1321 01	CHECKED - KJA 3/19	REVISED -	
	PLOT SCALE = 0.2 '/' / in.	DRAWN - KAH 3/19	REVISED -	
	PLOT DATE = 8/13/2019	CHECKED - RTM/ELH 8/19	REVISED -	

SHEET 01 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	42
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

MODULE: PLOT
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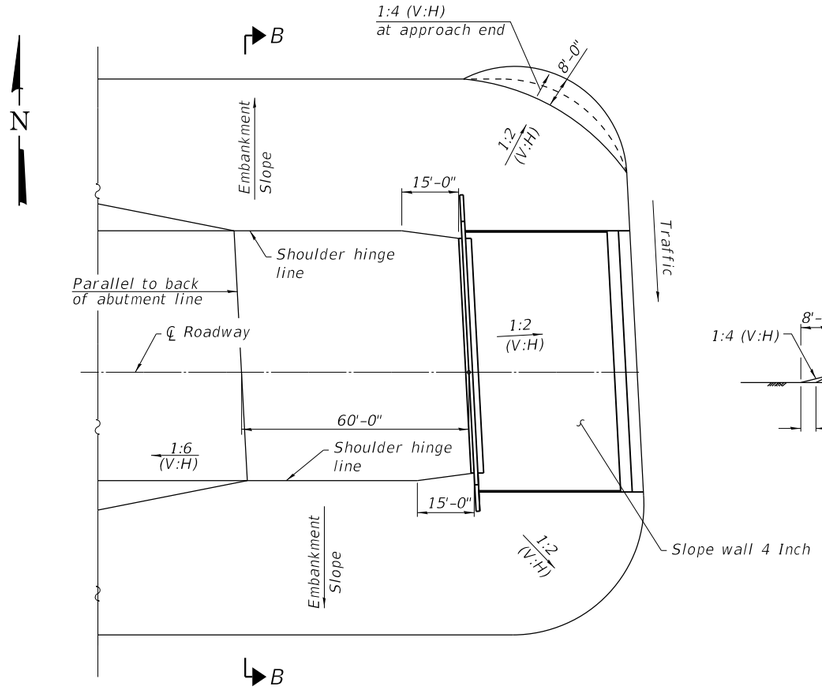
8/13/2019 5:23:51 PM

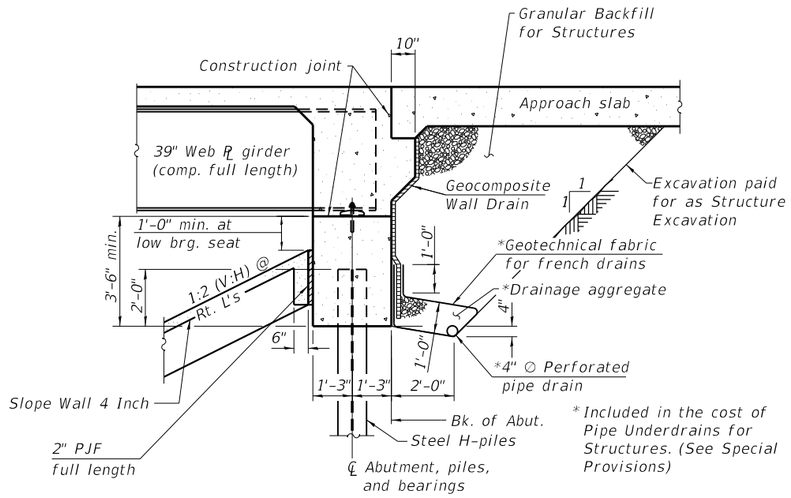
GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8" ∅, holes 15/16" ∅, unless otherwise noted.
2. Calculated weight of Structural Steel = 404,070 lbs. (AASHTO M270, Grade 50) 22,350 lbs. (AASHTO M270, Grade 36)
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
6. The existing structural steel and handrails coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
7. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all 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.
8. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
9. Slipforming of the parapets is not allowed.
10. Slope wall shall be reinforced with welded wire fabric, 6 in X 6 in-W4.0XW4.0, weighing 58 lbs. per 100 sq. ft.
11. The costs of concrete slope wall removal and bridge rail removal are included in Removal of Existing Structures.



PLAN
EMBANKMENT CONE

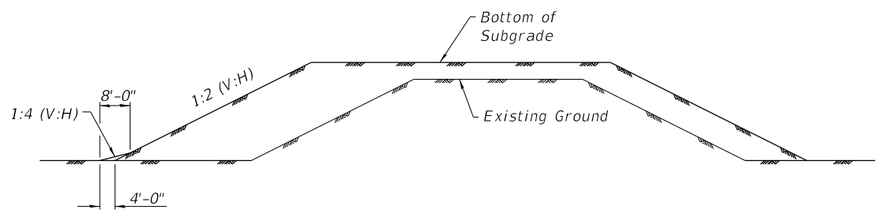
(W. Abut. shown, E. Abut. similar)



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION B-B

STRUCTURE INDEX OF SHEETS

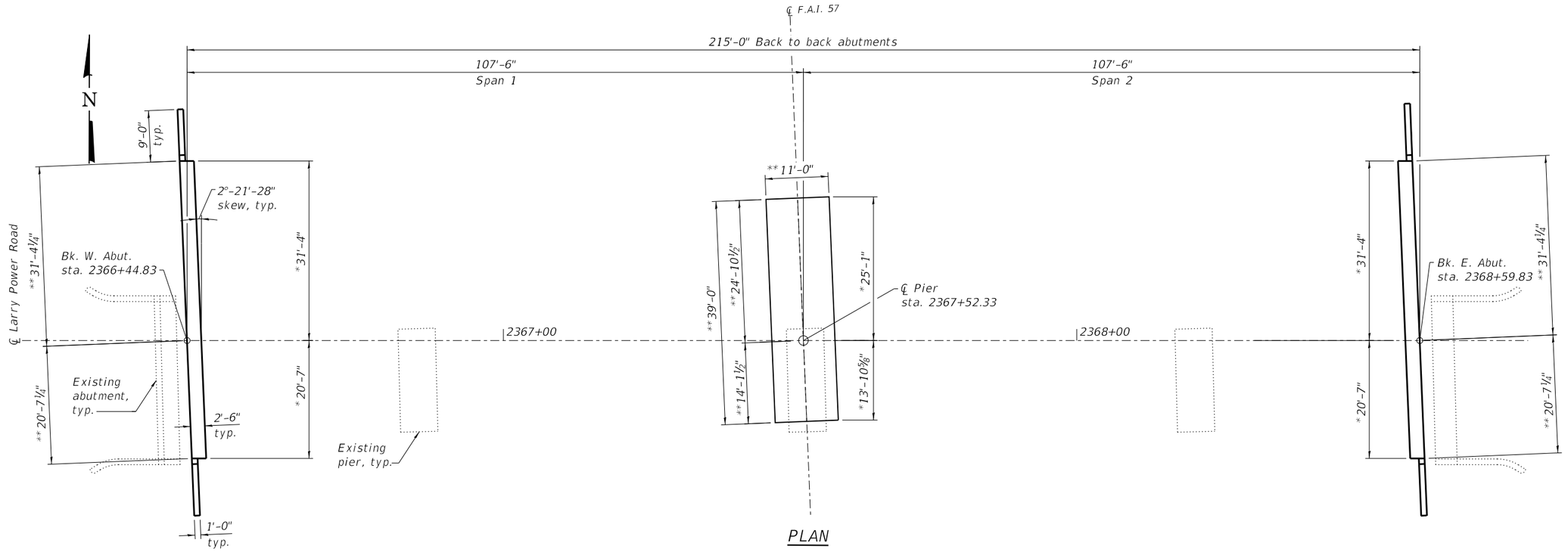
STATION 2367+52.33
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 46-2(1)HBR-2
LOADING HL-93
STR. NO. 046-0151

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Protective Shield	Sq. Yd.	264		264
Structure Excavation	Cu. Yd.		113	113
Concrete Structures	Cu. Yd.		184.6	184.6
Concrete Superstructure	Cu. Yd.	393.6		393.6
Bridge Deck Grooving	Sq. Yd.	1100		1100
Protective Coat	Sq. Yd.	1820		1820
Concrete Superstructure (Approach Slab)	Cu. Yd.	151.6		151.6
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	8088		8088
Reinforcement Bars, Epoxy Coated	Pound	156040	33610	189650
Bridge Fence Railing (Sidewalk)	Foot	245		245
Parapet Railing	Foot	275		275
Slope Wall 4 Inch	Sq. Yd.		557	557
Furnishing Steel Piles HP12x63	Foot		518	518
Driving Piles	Foot		518	518
Test Pile Steel HP12x63	Each		2	2
Pile Shoes	Each		16	16
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		32	32
Anchor Bolts, 1¼"	Each		16	16
Geocomposite Wall Drain	Sq. Yd.		95	95
Granular Backfill for Structures	Cu. Yd.		152	152
Drainage Scuppers, DS-11	Each	4		4
Pipe Underdrains for Structures 4"	Foot		172	172



PLAN

* Rt. angle to ℄ Roadway
** Along the skew

MODEL: PLOT
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8/15/2019 9:30:29 AM

ESCA CONSULTANTS, INC.

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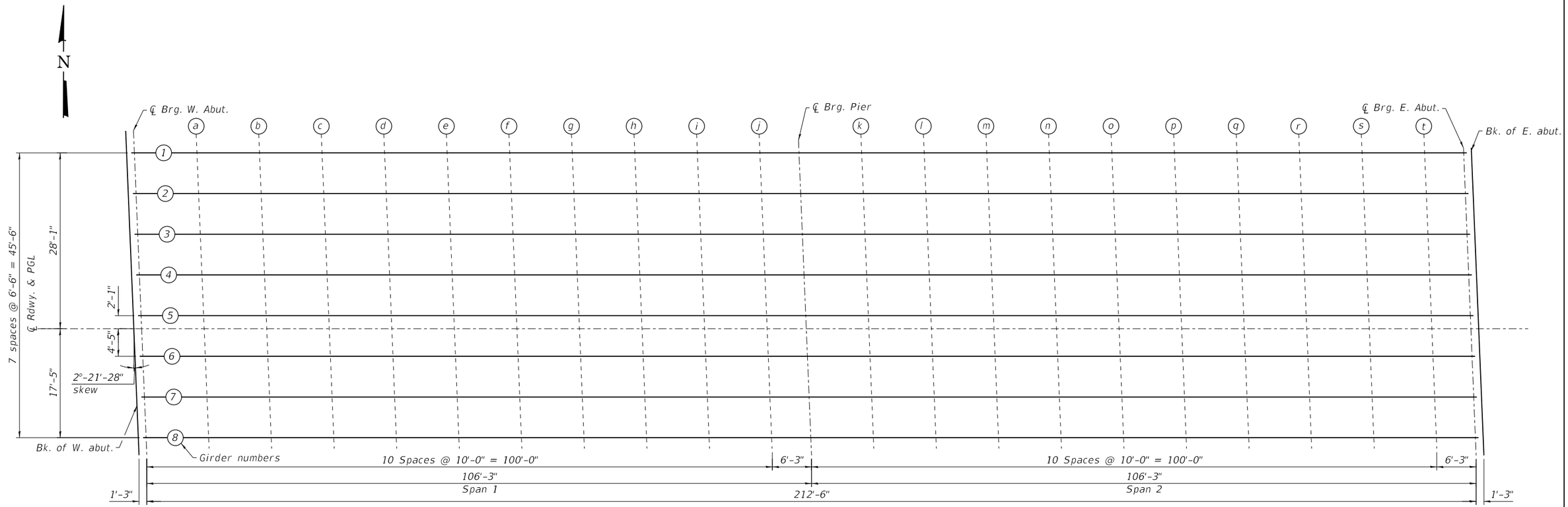
ESCA PROJECT NO. 1321.01	CHECKED - KJA 3/19	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - KAH 3/19	REVISED -	
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH 8/19	REVISED -	

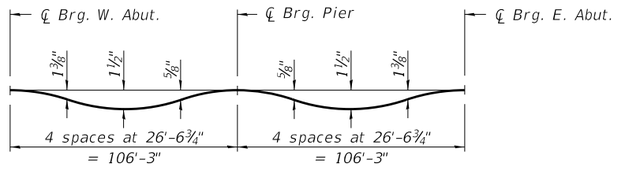
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT
STRUCTURE NO. 046-0151
SHEET 03 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	44
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		



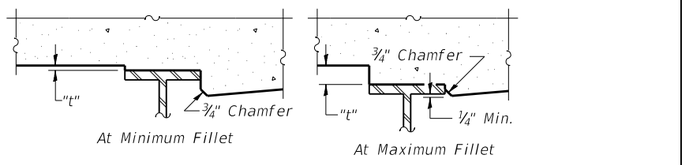
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets 5 and 6.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 5 and 6 of 29, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

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9/4/2019 8:57:33 AM

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = sma	DESIGNED - RTM 1/19	REVISED -	
ESCA PROJECT NO. 1321.01	CHECKED - KJA 3/19	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - KAH 3/19	REVISED -	
PLOT DATE = 9/4/2019	CHECKED - RTM/ELH 8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 046-0151
SHEET 04 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	45
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+43.67	-28.08	720.19	720.19
℄ Brg. W. Abut.	2366+44.92	-28.08	720.22	720.22
a	2366+54.92	-28.08	720.42	720.47
b	2366+64.92	-28.08	720.60	720.70
c	2366+74.92	-28.08	720.76	720.90
d	2366+84.92	-28.08	720.90	721.05
e	2366+94.92	-28.08	721.02	721.17
f	2367+04.92	-28.08	721.12	721.25
g	2367+14.92	-28.08	721.20	721.30
h	2367+24.92	-28.08	721.26	721.33
i	2367+34.92	-28.08	721.30	721.33
j	2367+44.92	-28.08	721.33	721.32
℄ Brg. Pier	2367+51.17	-28.08	721.33	721.33
k	2367+61.17	-28.08	721.32	721.33
l	2367+71.17	-28.08	721.29	721.33
m	2367+81.17	-28.08	721.24	721.32
n	2367+91.17	-28.08	721.18	721.29
o	2368+01.17	-28.08	721.09	721.23
p	2368+11.17	-28.08	720.98	721.14
q	2368+21.17	-28.08	720.85	721.01
r	2368+31.17	-28.08	720.70	720.84
s	2368+41.17	-28.08	720.54	720.63
t	2368+51.17	-28.08	720.35	720.39
℄ Brg. E. Abut.	2368+57.42	-28.08	720.22	720.22
Bk. of E. Abut	2368+58.67	-28.08	720.20	720.20

GIRDER 2

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+43.94	-21.58	720.10	720.10
℄ Brg. W. Abut.	2366+45.19	-21.58	720.13	720.13
a	2366+55.19	-21.58	720.32	720.38
b	2366+65.19	-21.58	720.50	720.60
c	2366+75.19	-21.58	720.66	720.79
d	2366+85.19	-21.58	720.80	720.95
e	2366+95.19	-21.58	720.92	721.07
f	2367+05.19	-21.58	721.02	721.15
g	2367+15.19	-21.58	721.11	721.20
h	2367+25.19	-21.58	721.17	721.23
i	2367+35.19	-21.58	721.21	721.23
j	2367+45.19	-21.58	721.23	721.22
℄ Brg. Pier	2367+51.44	-21.58	721.23	721.23
k	2367+61.44	-21.58	721.22	721.24
l	2367+71.44	-21.58	721.19	721.23
m	2367+81.44	-21.58	721.14	721.22
n	2367+91.44	-21.58	721.08	721.18
o	2368+01.44	-21.58	720.99	721.12
p	2368+11.44	-21.58	720.88	721.02
q	2368+21.44	-21.58	720.75	720.89
r	2368+31.44	-21.58	720.60	720.72
s	2368+41.44	-21.58	720.44	720.52
t	2368+51.44	-21.58	720.25	720.28
℄ Brg. E. Abut.	2368+57.69	-21.58	720.12	720.12
Bk. of E. Abut	2368+58.94	-21.58	720.10	720.10

GIRDER 3

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+44.21	-15.08	720.12	720.12
℄ Brg. W. Abut.	2366+45.46	-15.08	720.15	720.15
a	2366+55.46	-15.08	720.35	720.40
b	2366+65.46	-15.08	720.53	720.63
c	2366+75.46	-15.08	720.69	720.82
d	2366+85.46	-15.08	720.83	720.97
e	2366+95.46	-15.08	720.95	721.09
f	2367+05.46	-15.08	721.05	721.17
g	2367+15.46	-15.08	721.13	721.22
h	2367+25.46	-15.08	721.19	721.25
i	2367+35.46	-15.08	721.23	721.26
j	2367+45.46	-15.08	721.25	721.24
℄ Brg. Pier	2367+51.71	-15.08	721.25	721.25
k	2367+61.71	-15.08	721.24	721.25
l	2367+71.71	-15.08	721.21	721.25
m	2367+81.71	-15.08	721.16	721.23
n	2367+91.71	-15.08	721.09	721.20
o	2368+01.71	-15.08	721.00	721.14
p	2368+11.71	-15.08	720.90	721.04
q	2368+21.71	-15.08	720.77	720.91
r	2368+31.71	-15.08	720.62	720.74
s	2368+41.71	-15.08	720.45	720.53
t	2368+51.71	-15.08	720.26	720.30
℄ Brg. E. Abut.	2368+57.96	-15.08	720.14	720.14
Bk. of E. Abut	2368+59.21	-15.08	720.11	720.11

GIRDER 4

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+44.48	-8.58	720.23	720.23
℄ Brg. W. Abut.	2366+45.73	-8.58	720.25	720.25
a	2366+55.73	-8.58	720.45	720.51
b	2366+65.73	-8.58	720.63	720.73
c	2366+75.73	-8.58	720.79	720.92
d	2366+85.73	-8.58	720.93	721.07
e	2366+95.73	-8.58	721.05	721.19
f	2367+05.73	-8.58	721.15	721.27
g	2367+15.73	-8.58	721.23	721.32
h	2367+25.73	-8.58	721.29	721.35
i	2367+35.73	-8.58	721.33	721.35
j	2367+45.73	-8.58	721.35	721.34
℄ Brg. Pier	2367+51.98	-8.58	721.35	721.35
k	2367+61.98	-8.58	721.34	721.35
l	2367+71.98	-8.58	721.31	721.35
m	2367+81.98	-8.58	721.26	721.33
n	2367+91.98	-8.58	721.19	721.29
o	2368+01.98	-8.58	721.10	721.23
p	2368+11.98	-8.58	720.99	721.14
q	2368+21.98	-8.58	720.86	721.00
r	2368+31.98	-8.58	720.71	720.83
s	2368+41.98	-8.58	720.54	720.63
t	2368+51.98	-8.58	720.36	720.39
℄ Brg. E. Abut.	2368+58.23	-8.58	720.23	720.23
Bk. of E. Abut	2368+59.48	-8.58	720.20	720.20

GIRDER 5

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+44.74	-2.08	720.33	720.33
℄ Brg. W. Abut.	2366+45.99	-2.08	720.36	720.36
a	2366+55.99	-2.08	720.55	720.61
b	2366+65.99	-2.08	720.73	720.83
c	2366+75.99	-2.08	720.89	721.02
d	2366+85.99	-2.08	721.03	721.17
e	2366+95.99	-2.08	721.15	721.29
f	2367+05.99	-2.08	721.25	721.37
g	2367+15.99	-2.08	721.33	721.42
h	2367+25.99	-2.08	721.39	721.44
i	2367+35.99	-2.08	721.43	721.45
j	2367+45.99	-2.08	721.45	721.44
℄ Brg. Pier	2367+52.24	-2.08	721.45	721.45
k	2367+62.24	-2.08	721.44	721.45
l	2367+72.24	-2.08	721.41	721.44
m	2367+82.24	-2.08	721.36	721.43
n	2367+92.24	-2.08	721.28	721.39
o	2368+02.24	-2.08	721.19	721.33
p	2368+12.24	-2.08	721.08	721.23
q	2368+22.24	-2.08	720.95	721.10
r	2368+32.24	-2.08	720.81	720.93
s	2368+42.24	-2.08	720.64	720.72
t	2368+52.24	-2.08	720.45	720.48
℄ Brg. E. Abut.	2368+58.49	-2.08	720.32	720.32
Bk. of E. Abut	2368+59.74	-2.08	720.29	720.29

ESCA CONSULTANTS, INC.

USER NAME = nugentaj	DESIGNED - RTM	1/19	REVISED -	
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PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 046-0151
SHEET 05 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	46
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+44.83	0.00	720.36	720.36
℄ Brg. W. Abut.	2366+46.08	0.00	720.39	720.39
a	2366+56.08	0.00	720.59	720.64
b	2366+66.08	0.00	720.76	720.86
c	2366+76.08	0.00	720.92	721.05
d	2366+86.08	0.00	721.06	721.21
e	2366+96.08	0.00	721.18	721.32
f	2367+06.08	0.00	721.28	721.40
g	2367+16.08	0.00	721.36	721.45
h	2367+26.08	0.00	721.42	721.48
i	2367+36.08	0.00	721.46	721.48
j	2367+46.08	0.00	721.48	721.47
℄ Brg. Pier	2367+52.33	0.00	721.48	721.48
k	2367+62.33	0.00	721.47	721.48
l	2367+72.33	0.00	721.44	721.47
m	2367+82.33	0.00	721.39	721.46
n	2367+92.33	0.00	721.32	721.42
o	2368+02.33	0.00	721.22	721.36
p	2368+12.33	0.00	721.11	721.26
q	2368+22.33	0.00	720.98	721.13
r	2368+32.33	0.00	720.84	720.96
s	2368+42.33	0.00	720.67	720.75
t	2368+52.33	0.00	720.48	720.51
℄ Brg. E. Abut.	2368+58.58	0.00	720.35	720.35
Bk. of E. Abut	2368+59.83	0.00	720.32	720.32

GIRDER 6

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+45.01	4.42	720.31	720.31
℄ Brg. W. Abut.	2366+46.26	4.42	720.33	720.33
a	2366+56.26	4.42	720.53	720.58
b	2366+66.26	4.42	720.71	720.80
c	2366+76.26	4.42	720.86	720.99
d	2366+86.26	4.42	721.00	721.15
e	2366+96.26	4.42	721.12	721.26
f	2367+06.26	4.42	721.22	721.34
g	2367+16.26	4.42	721.30	721.39
h	2367+26.26	4.42	721.36	721.42
i	2367+36.26	4.42	721.40	721.42
j	2367+46.26	4.42	721.42	721.41
℄ Brg. Pier	2367+52.51	4.42	721.42	721.42
k	2367+62.51	4.42	721.41	721.42
l	2367+72.51	4.42	721.38	721.41
m	2367+82.51	4.42	721.32	721.40
n	2367+92.51	4.42	721.25	721.36
o	2368+02.51	4.42	721.16	721.30
p	2368+12.51	4.42	721.05	721.20
q	2368+22.51	4.42	720.92	721.06
r	2368+32.51	4.42	720.77	720.89
s	2368+42.51	4.42	720.60	720.69
t	2368+52.51	4.42	720.41	720.45
℄ Brg. E. Abut.	2368+58.76	4.42	720.29	720.29
Bk. of E. Abut	2368+60.01	4.42	720.26	720.26

GIRDER 7

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+45.28	10.92	720.21	720.21
℄ Brg. W. Abut.	2366+46.53	10.92	720.24	720.24
a	2366+56.53	10.92	720.43	720.49
b	2366+66.53	10.92	720.61	720.71
c	2366+76.53	10.92	720.77	720.90
d	2366+86.53	10.92	720.90	721.05
e	2366+96.53	10.92	721.02	721.16
f	2367+06.53	10.92	721.12	721.24
g	2367+16.53	10.92	721.20	721.29
h	2367+26.53	10.92	721.26	721.31
i	2367+36.53	10.92	721.29	721.32
j	2367+46.53	10.92	721.31	721.31
℄ Brg. Pier	2367+52.78	10.92	721.32	721.32
k	2367+62.78	10.92	721.30	721.31
l	2367+72.78	10.92	721.27	721.31
m	2367+82.78	10.92	721.22	721.29
n	2367+92.78	10.92	721.15	721.25
o	2368+02.78	10.92	721.06	721.19
p	2368+12.78	10.92	720.95	721.09
q	2368+22.78	10.92	720.81	720.96
r	2368+32.78	10.92	720.66	720.78
s	2368+42.78	10.92	720.49	720.58
t	2368+52.78	10.92	720.30	720.34
℄ Brg. E. Abut.	2368+59.03	10.92	720.18	720.18
Bk. of E. Abut	2368+60.28	10.92	720.15	720.15

GIRDER 8

Location	Station	Offset (ft.)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut	2366+45.55	17.42	720.12	720.12
℄ Brg. W. Abut.	2366+46.80	17.42	720.14	720.14
a	2366+56.80	17.42	720.34	720.40
b	2366+66.80	17.42	720.52	720.62
c	2366+76.80	17.42	720.67	720.81
d	2366+86.80	17.42	720.81	720.97
e	2366+96.80	17.42	720.93	721.08
f	2367+06.80	17.42	721.02	721.16
g	2367+16.80	17.42	721.10	721.20
h	2367+26.80	17.42	721.16	721.22
i	2367+36.80	17.42	721.20	721.23
j	2367+46.80	17.42	721.22	721.21
℄ Brg. Pier	2367+53.05	17.42	721.22	721.22
k	2367+63.05	17.42	721.21	721.22
l	2367+73.05	17.42	721.17	721.21
m	2367+83.05	17.42	721.12	721.20
n	2367+93.05	17.42	721.05	721.16
o	2368+03.05	17.42	720.96	721.10
p	2368+13.05	17.42	720.84	721.00
q	2368+23.05	17.42	720.71	720.87
r	2368+33.05	17.42	720.56	720.69
s	2368+43.05	17.42	720.39	720.48
t	2368+53.05	17.42	720.20	720.24
℄ Brg. E. Abut.	2368+59.30	17.42	720.07	720.07
Bk. of E. Abut	2368+60.55	17.42	720.05	720.05

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ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 046–0151
SHEET 06 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	47
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

WEST APPROACH SLAB

NORTH EDGE OF MULTI-USE PATH

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	2366+13.33	-36.36	719.58
A1	2366+23.40	-34.69	719.82
A2	2366+33.47	-33.01	720.04
E. End of W. Appr.	2366+43.54	-31.33	720.24

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	2366+14.05	-19.00	719.34
A1	2366+24.05	-19.00	719.60
A2	2366+34.05	-19.00	719.84
E. End of W. Appr.	2366+44.05	-19.00	720.06

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	2366+14.09	-18.00	719.36
A1	2366+24.09	-18.00	719.62
A2	2366+34.09	-18.00	719.86
E. End of W. Appr.	2366+44.09	-18.00	720.08

℄ ROADWAY & PROFILE GRADE

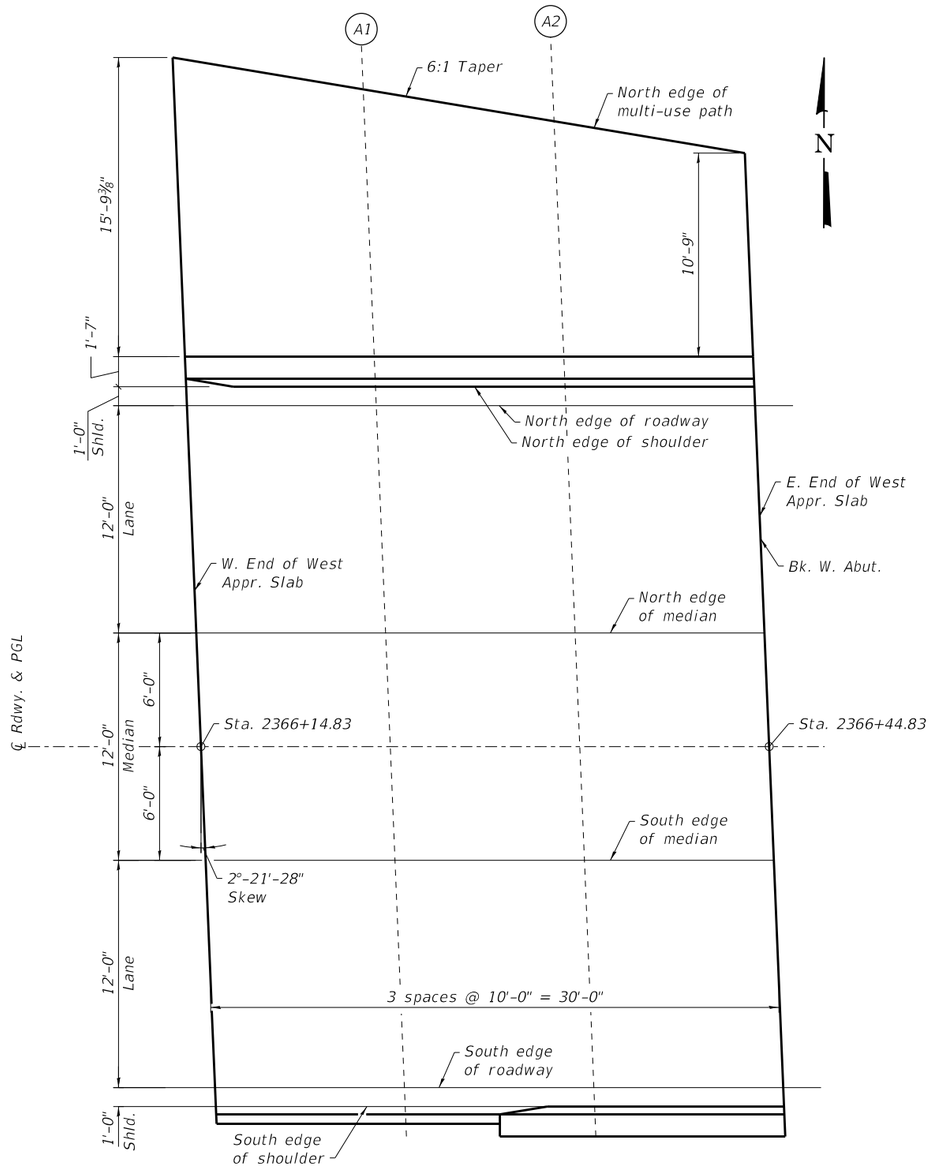
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	2366+14.83	0.00	719.65
A1	2366+24.83	0.00	719.91
A2	2366+34.83	0.00	720.14
E. End of W. Appr.	2366+44.83	0.00	720.36

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	2366+15.57	18.00	719.40
A1	2366+25.57	18.00	719.65
A2	2366+35.57	18.00	719.89
E. End of W. Appr.	2366+45.57	18.00	720.11

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	2366+15.61	19.00	719.38
A1	2366+25.61	19.00	719.64
A2	2366+35.61	19.00	719.88
E. End of W. Appr.	2366+45.61	19.00	720.10



PLAN - WEST APPROACH SLAB

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 046-0151
SHEET 07 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	48
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

EAST APPROACH SLAB

NORTH EDGE OF MULTI-USE PATH

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	2368+58.54	-31.33	720.25
A3	2368+68.47	-32.99	720.06
A4	2368+78.40	-34.64	719.84
E. End of E. Appr.	2368+88.33	-36.30	719.61

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	2368+59.05	-19.00	720.05
A3	2368+69.05	-19.00	719.83
A4	2368+79.05	-19.00	719.59
E. End of E. Appr.	2368+89.05	-19.00	719.33

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	2368+59.09	-18.00	720.07
A3	2368+69.09	-18.00	719.85
A4	2368+79.09	-18.00	719.61
E. End of E. Appr.	2368+89.09	-18.00	719.34

℄ ROADWAY & PROFILE GRADE

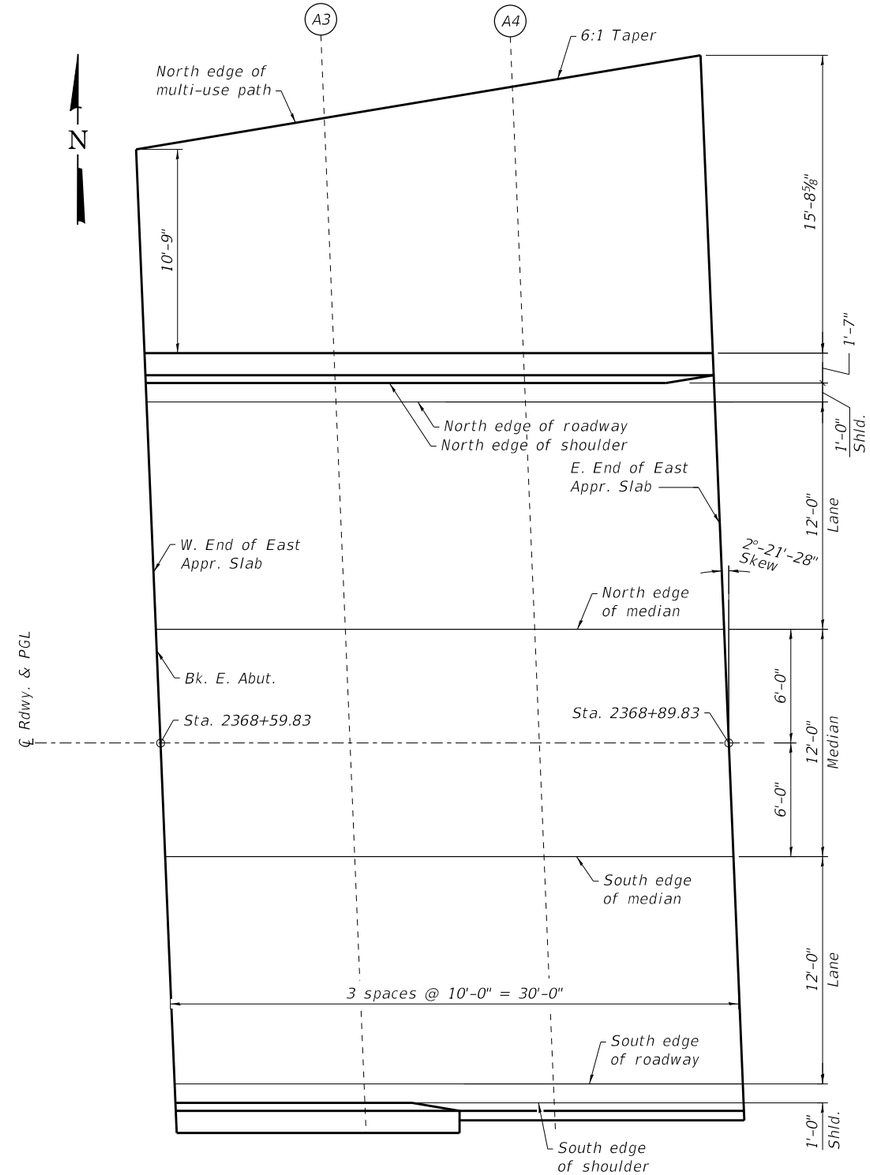
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	2368+59.83	0.00	720.32
A3	2368+69.83	0.00	720.10
A4	2368+79.83	0.00	719.86
E. End of E. Appr.	2368+89.83	0.00	719.59

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	2368+60.57	18.00	720.04
A3	2368+70.57	18.00	719.81
A4	2368+80.57	18.00	719.57
E. End of E. Appr.	2368+90.57	18.00	719.30

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	2368+60.61	19.00	720.02
A3	2368+70.61	19.00	719.80
A4	2368+80.61	19.00	719.55
E. End of E. Appr.	2368+90.61	19.00	719.29



PLAN - EAST APPROACH SLAB

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ESCA CONSULTANTS, INC.

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ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -		SHEET 08 OF 29 SHEETS
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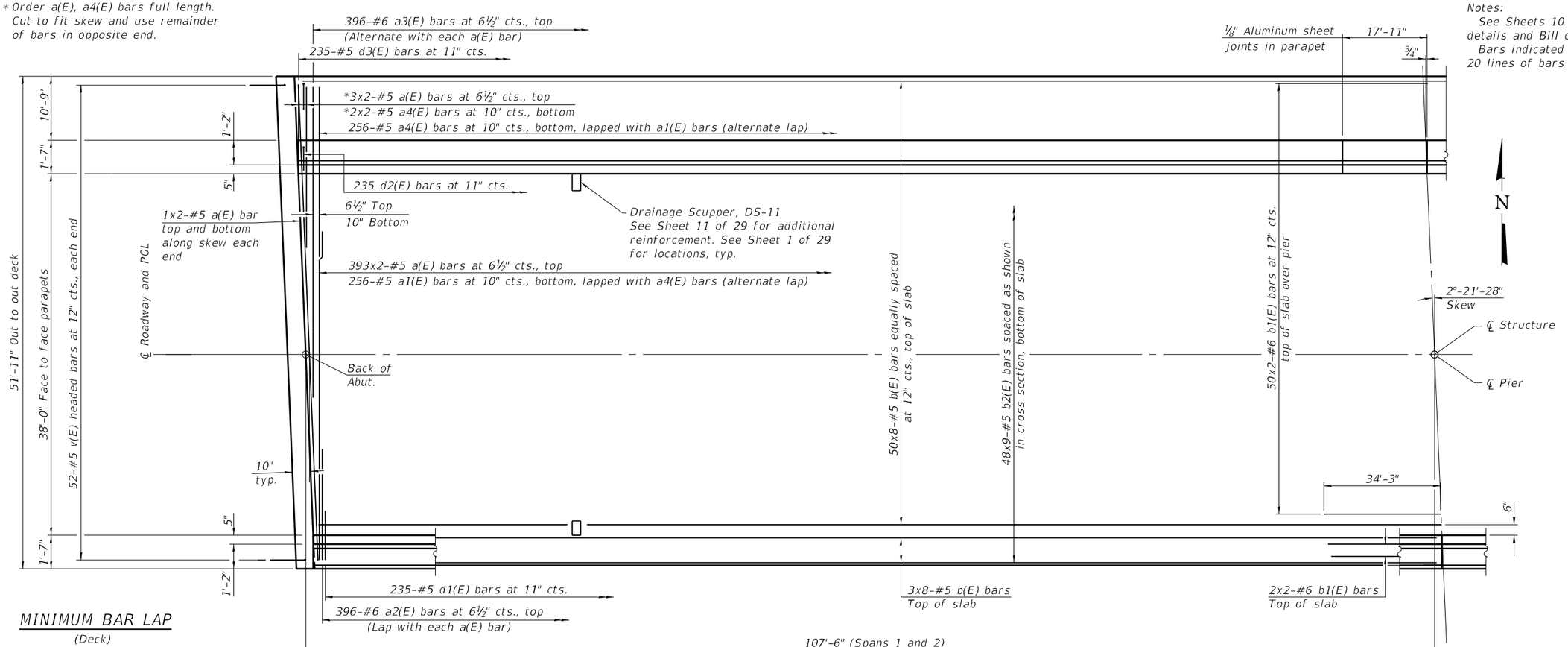
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	49
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

* Order a(E), a4(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

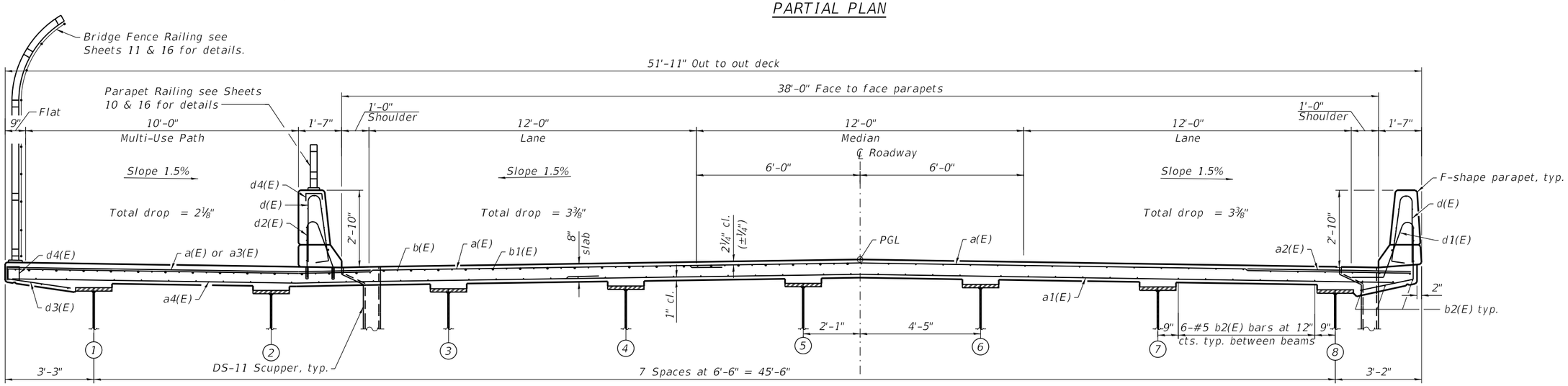
Notes:
See Sheets 10 & 11 of 29 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



PARTIAL PLAN

MINIMUM BAR LAP

(Deck)
#5 bar = 3'-6"
#6 bar = 4'-10"



NEAR PIER — NEAR MIDSPAN

CROSS SECTION

(Looking East)

ESCA CONSULTANTS, INC.	USER NAME = nugentaj	DESIGNED - RTM 1/19	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 046-0151
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

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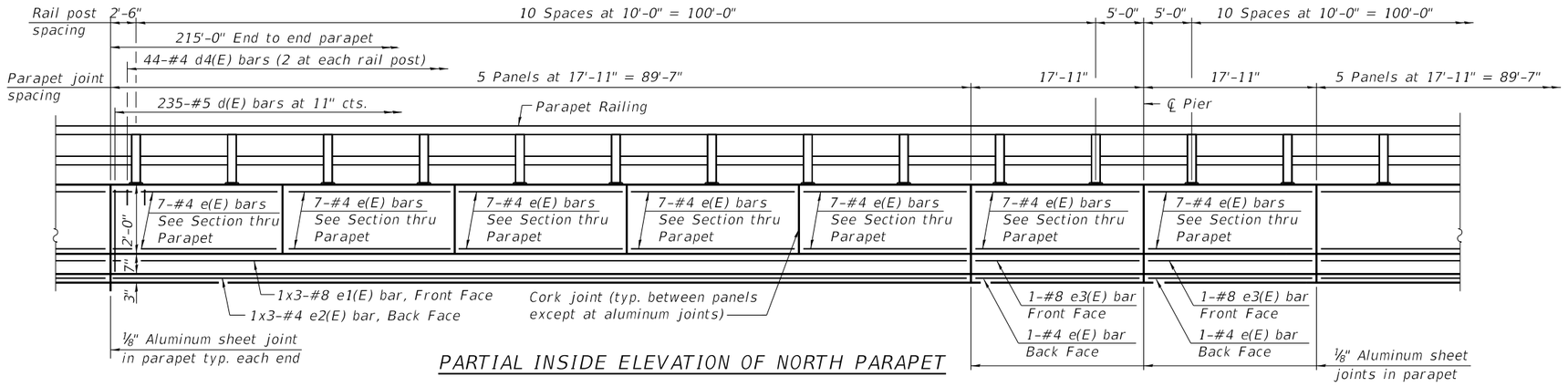
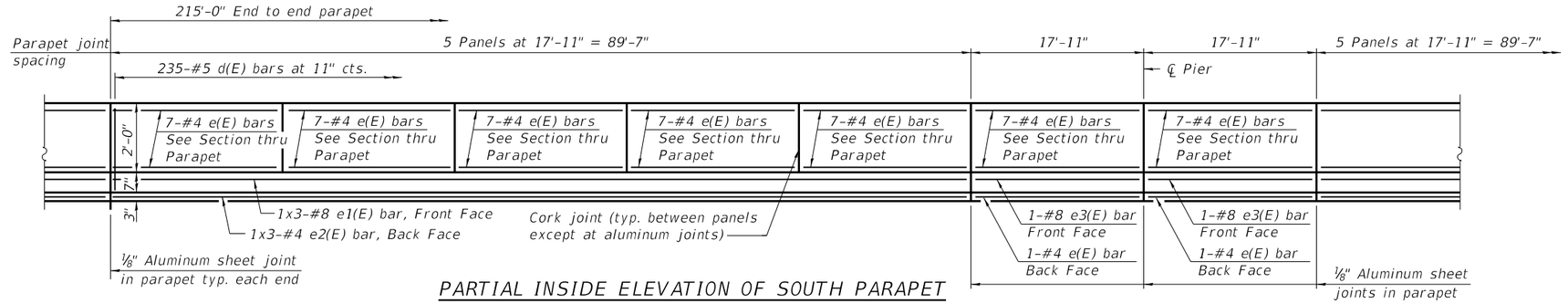


PARTIAL INSIDE ELEVATION OF NORTH PARAPET



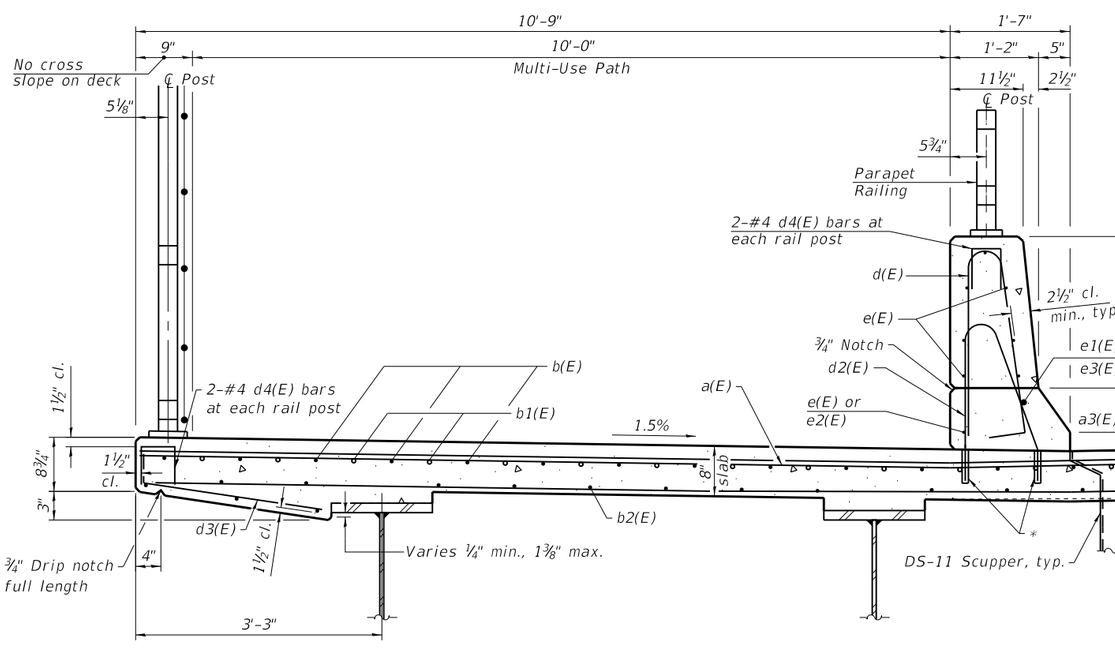
PARTIAL INSIDE ELEVATION OF SOUTH PARAPET

Notes:
See Sheets 11 & 16 of 29 for railing details.
See Sheet 11 of 29 for parapet joint details and Bill of Material.
Bars indicated thus 1x3-#8 etc. indicates 1 line of bars with 3 lengths per line.

MINIMUM BAR LAP

(Parapet)

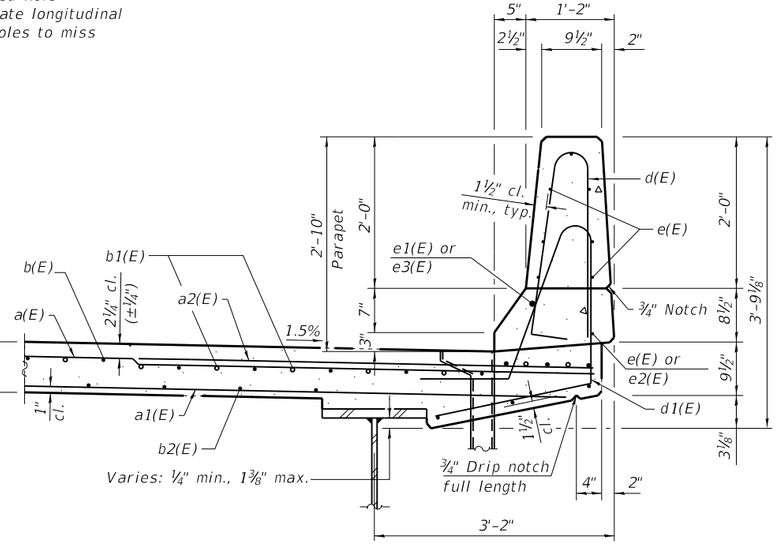
#4 bar = 2'-5"
#8 bar = 5'-11"



SECTION THRU NORTH PARAPET & MULTI-USE PATH

(Looking East)

* Drill and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.



SECTION THRU SOUTH PARAPET

(Looking East)

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS	USER NAME = nugentaj	DESIGNED - RTM 1/19	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO. 046-0151
	ESCA PROJECT NO. 1321.01	CHECKED - KJA 3/19	REVISED -		SHEET 10 OF 29 SHEETS
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	51
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

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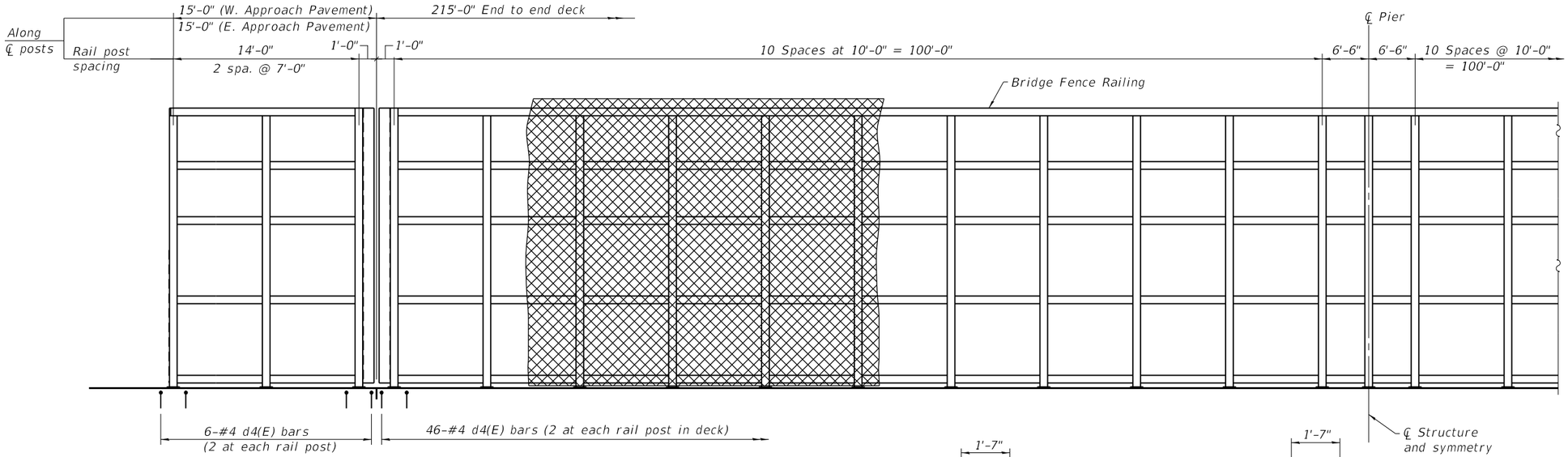


PARTIAL INSIDE ELEVATION OF BRIDGE FENCE RAILING

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	800	#5	27'-8"	
a1(E)	256	#5	31'-0"	
a2(E)	396	#6	6'-6"	
a3(E)	396	#6	18'-1"	
a4(E)	260	#5	23'-9"	
a5(E)	32	#5	1'-6"	
b(E)	424	#5	29'-11"	
b1(E)	104	#6	36'-8"	
b2(E)	432	#5	27'-0"	
d(E)	470	#5	5'-7"	
d1(E)	235	#5	7'-8"	
d2(E)	235	#5	4'-6"	
d3(E)	235	#5	2'-8"	
d4(E)	90	#4	1'-2"	
e(E)	172	#4	17'-7"	
e1(E)	12	#8	33'-8"	
e2(E)	12	#4	31'-5"	
e3(E)	4	#8	17'-7"	
m(E)	20	#6	28'-0"	
m1(E)	48	#5	4'-0"	
m2(E)	42	#6	6'-2"	
m3(E)	12	#6	2'-10"	
s(E)	100	#5	6'-10"	
s1(E)	100	#5	10'-8"	
v(E)	104	#5	3'-9"	
Reinforcement Bars, Epoxy Coated			Pound	97290
Concrete Superstructure			Cu. Yds.	383.6

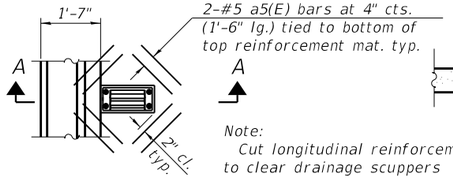
Notes:

See Sheet 16 of 29 for railing details.

The ⅛" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

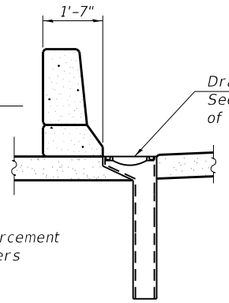
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

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.

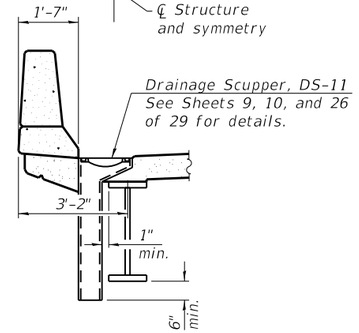


Note:
Cut longitudinal reinforcement to clear drainage scuppers

PLAN AT DRAINAGE SCUPPER

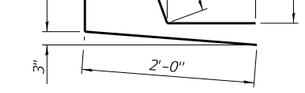


SECTION A-A - NORTH PARAPET

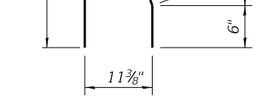


SECTION A-A - SOUTH PARAPET

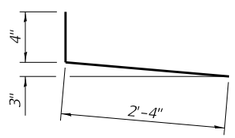
BAR d(E)



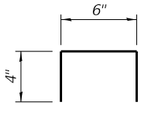
BAR d1(E)



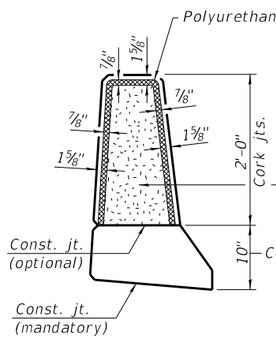
BAR d2(E)

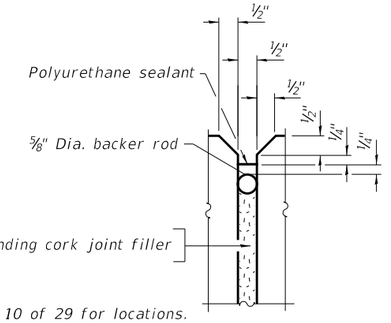


BAR d3(E)



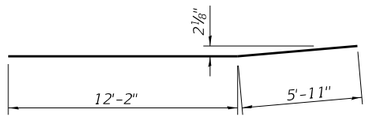
BAR d4(E)



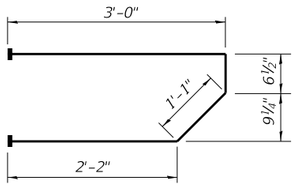


PARAPET JOINT DETAILS

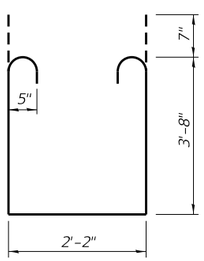
Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.



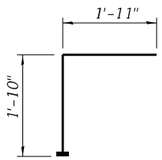
BAR a3(E)



BAR s(E)



BAR s1(E)



BAR v(E)

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ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

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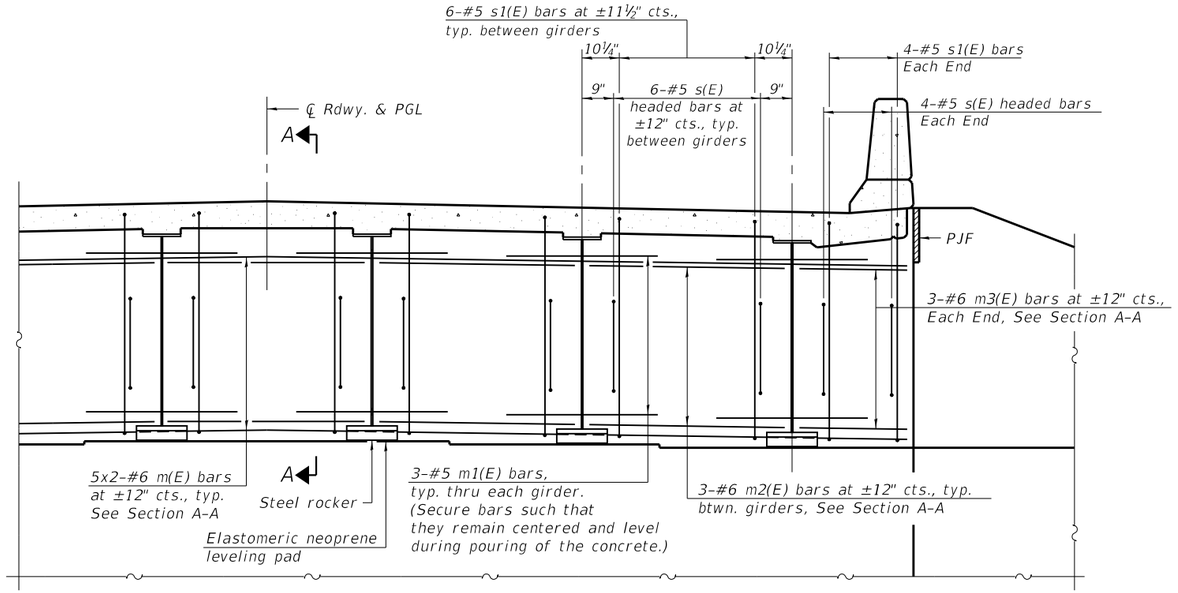
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

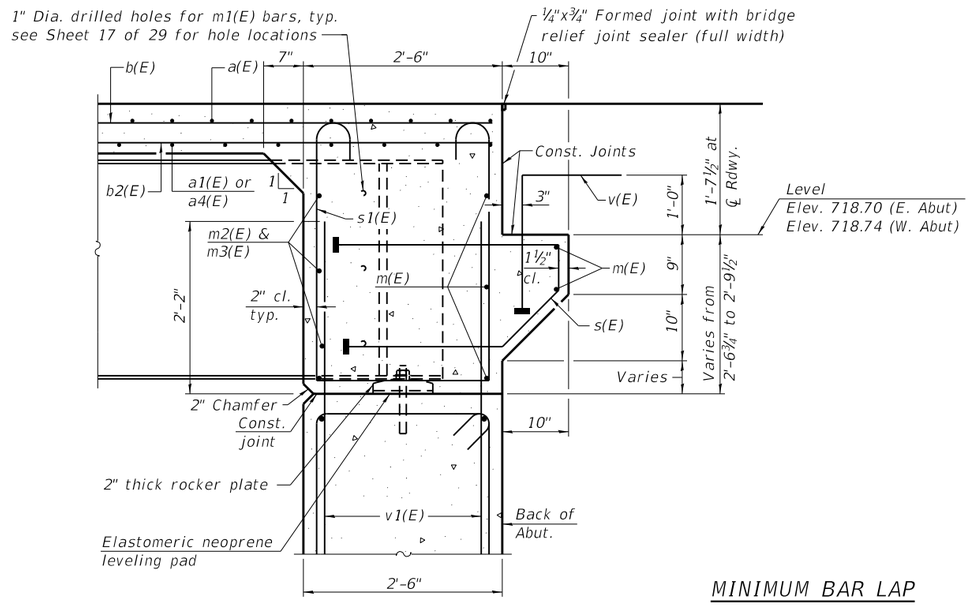
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 046-0151
SHEET 11 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	52
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



DIAPHRAGM AT ABUTMENT

(Looking East at East Abutment, West Abutment similar)

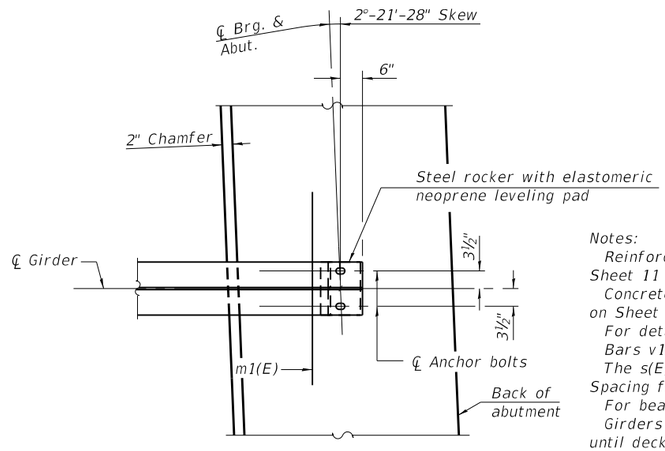


MINIMUM BAR LAP

(Diaphragm)
#6 bar = 4'–3"

SECTION A–A

(Dimensions at right angles to abutment, except as shown.)



PLAN AT ABUTMENT

(Showing bottom flange of girder)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on Sheet 11 of 29.

Concrete in diaphragm is included with Concrete Superstructure on Sheet 11 of 29.

For details of bars s(E), s1(E) and v(E), see Sheet 11 of 29.

Bars v1(E) are billed with abutments, see Sheets 22 & 23 of 29.

The s(E) and s1(E) bars shall be placed parallel to the girders. Spacing for these bars shall be at right angles to the girders.

For bearing details see Sheet 21 of 29.

Girders shall be braced for stability during erection and remain braced until deck is poured and cured.

ESCA CONSULTANTS, INC.
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USER NAME = nugentaj	DESIGNED - RTM 1/19	REVISED -	
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PLOT SCALE = 0:2 ':" / in.	DRAWN - KAH 3/19	REVISED -	
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH 8/19	REVISED -	

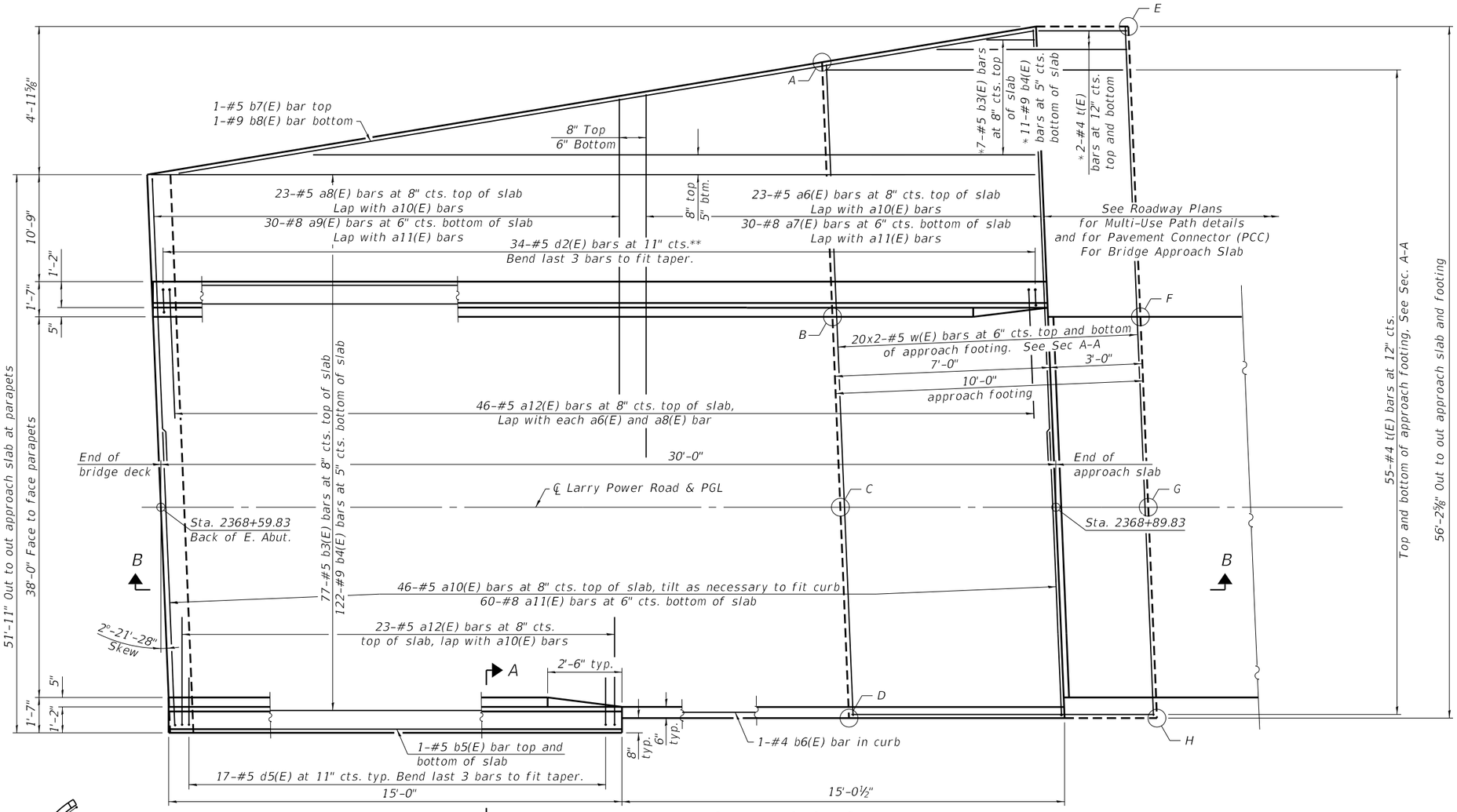
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 046–0151
SHEET 12 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	53
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

Note:
For Section B-B, see Sheet 15 of 29.

* Order bars full length and cut to fit skew. Use remaining b3(E) and b4(E) bars in West Approach Slab.



PLAN - EAST APPROACH SLAB

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

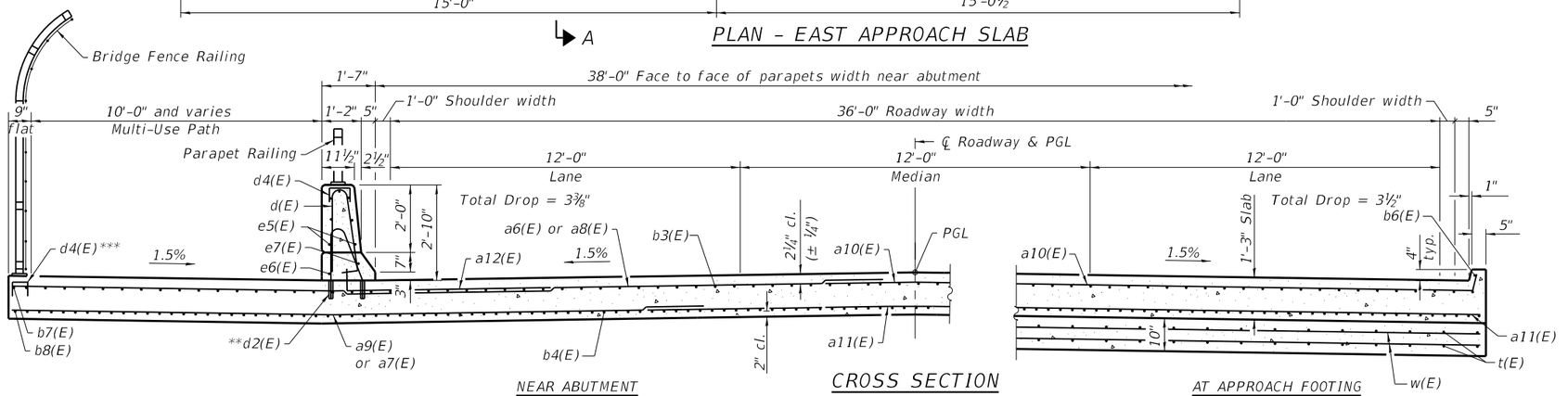
	East Approach	
Point	Top	Bottom
A	718.53	717.70
B	718.27	717.44
C	718.53	717.70
D	718.21	717.38
E	718.28	717.45
F	718.00	717.17
G	718.26	717.43
H	717.94	717.11

MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"

** Drill and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

*** For locations of d4(E) bars at Bridge Fence Railing, see Sheet 11 of 29.

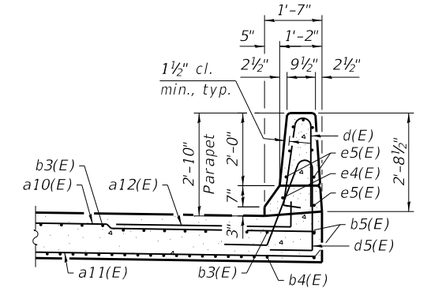


NEAR ABUTMENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING



SECTION A-A

(Sheet 1 of 3)

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USER NAME = nugentaj	DESIGNED - RTM	1/19	REVISED -		
ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -		
PLOT SCALE = 0:2 ':" / in.	DRAWN - KAH	3/19	REVISED -		
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -		

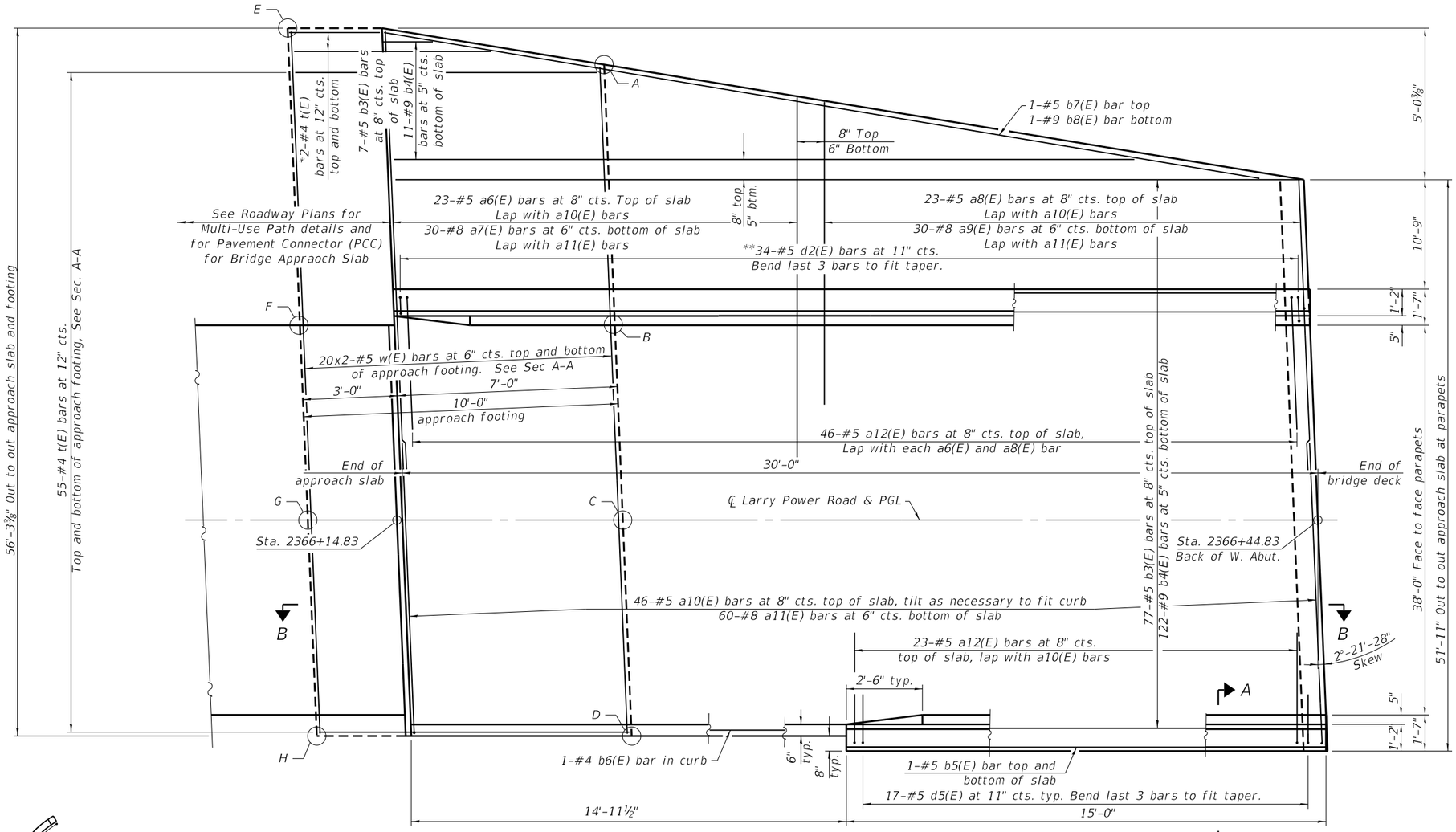
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 046-0151
SHEET 13 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	54
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

Note:
For Section B-B, see Sheet 15 of 29.

* Order bars full length and cut to fit skew.



TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	West Approach	
Point	Top	Bottom
A	718.50	717.67
B	718.28	717.44
C	718.58	717.74
D	718.30	717.47
E	718.25	717.42
F	718.01	717.17
G	718.32	717.49
H	718.04	717.21

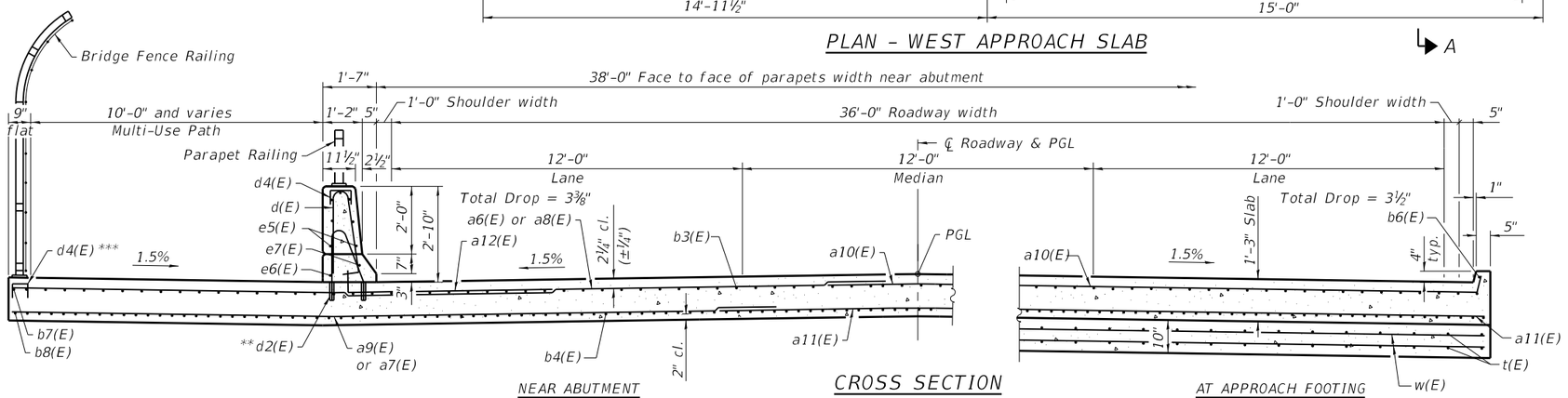
MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"

** Drill and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

*** For locations of d4(E) bars at Bridge Fence Railing, see Sheet 11 of 29.

PLAN - WEST APPROACH SLAB

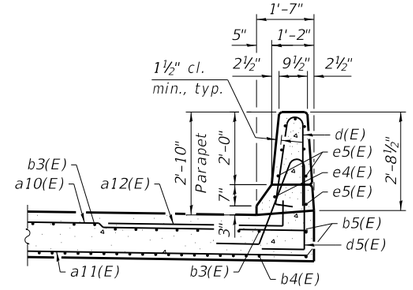


NEAR ABUTMENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING



SECTION A-A

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PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 046-0151
SHEET 14 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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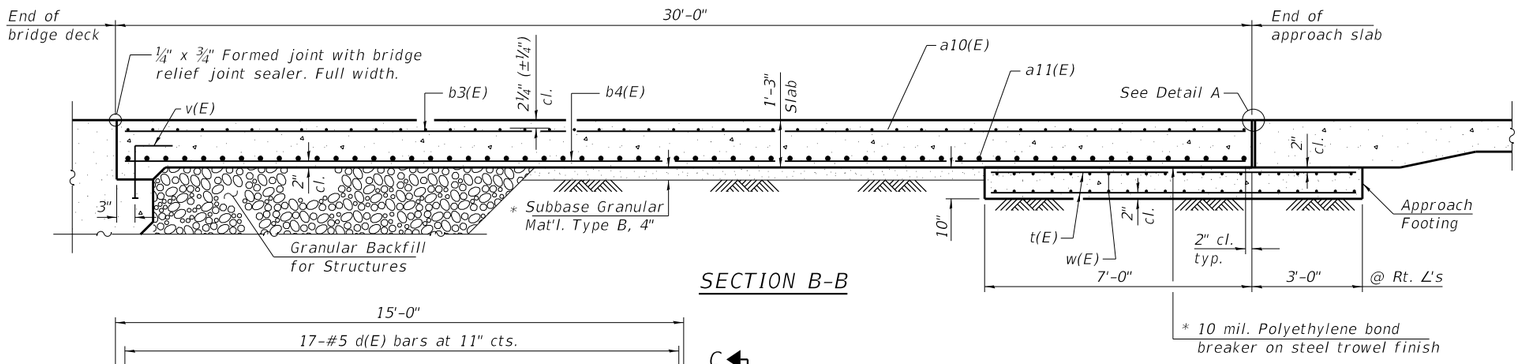
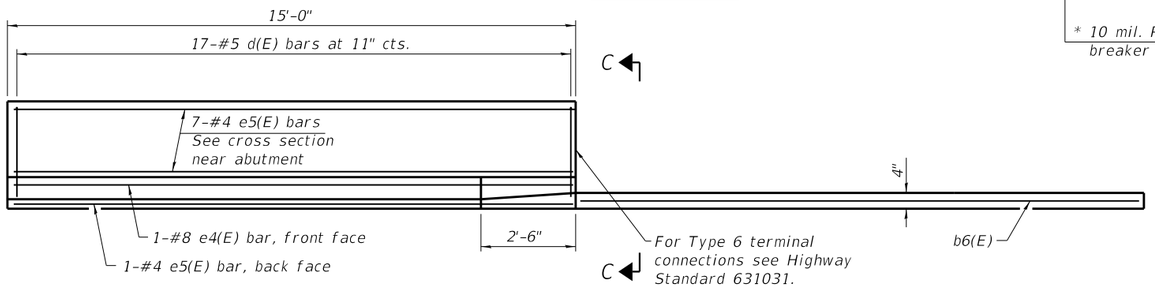
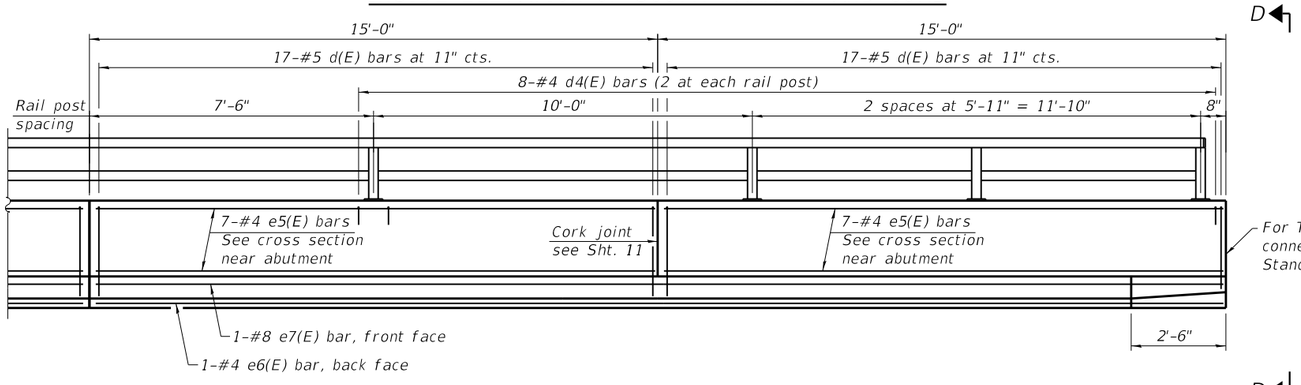
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



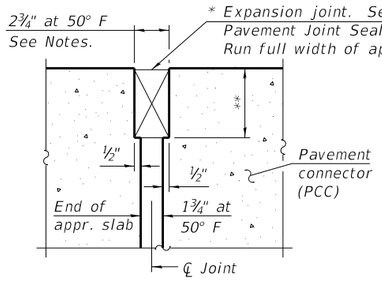
SECTION B-B



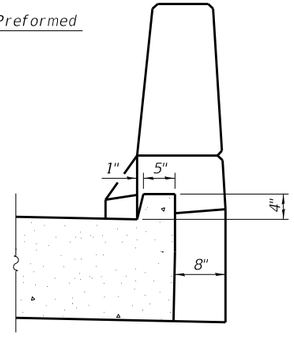
INSIDE ELEVATION OF SOUTH PARAPET AND CURB



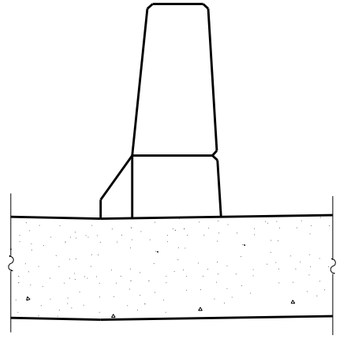
INSIDE ELEVATION OF NORTH PARAPET



DETAIL A
(@ Rt. ℄'s)



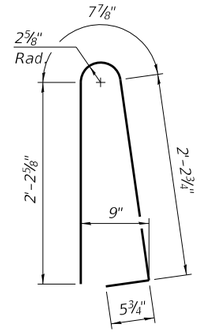
VIEW C-C



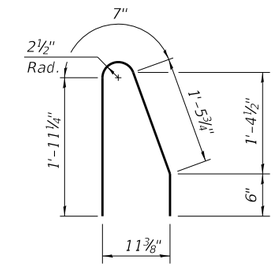
VIEW D-D

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

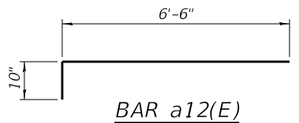
Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
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 Granular Backfill for Structures and drainage treatment details, see Sheet 2 of 29.



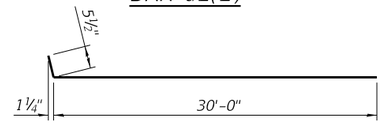
BAR d(E)



BAR d2(E)



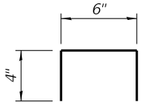
BAR a12(E)



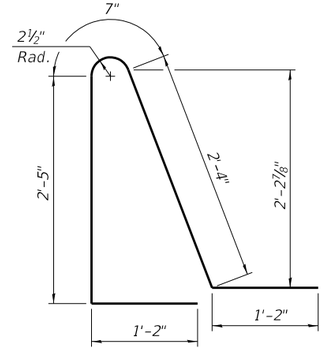
BAR a10(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a6(E)	46	#5	29'-3"	
a7(E)	60	#8	24'-8"	
a8(E)	46	#5	26'-9"	
a9(E)	60	#8	22'-8"	
a10(E)	92	#5	30'-6"	
a11(E)	120	#8	36'-0"	
a12(E)	138	#5	7'-4"	
b3(E)	161	#5	29'-8"	
b4(E)	255	#9	29'-8"	
b5(E)	4	#5	14'-8"	
b6(E)	2	#4	14'-8"	
b7(E)	2	#5	30'-0"	
b8(E)	2	#9	30'-0"	
d(E)	102	#5	5'-7"	
d2(E)	68	#5	4'-6"	
d4(E)	28	#4	1'-2"	
d5(E)	34	#5	7'-8"	
e4(E)	2	#8	14'-8"	
e5(E)	44	#4	14'-8"	
e6(E)	2	#4	29'-8"	
e7(E)	2	#8	29'-8"	
t(E)	228	#4	9'-8"	
w(E)	160	#5	29'-11"	
Concrete Superstructure			Cu. Yd.	10.0
Concrete Superstructure (Approach Slab)			Cu. Yd.	151.6
Concrete Structures			Cu. Yd.	34.5
Reinforcement Bars, Epoxy Coated			Pound	65220



BAR d4(E)



BAR d5(E)

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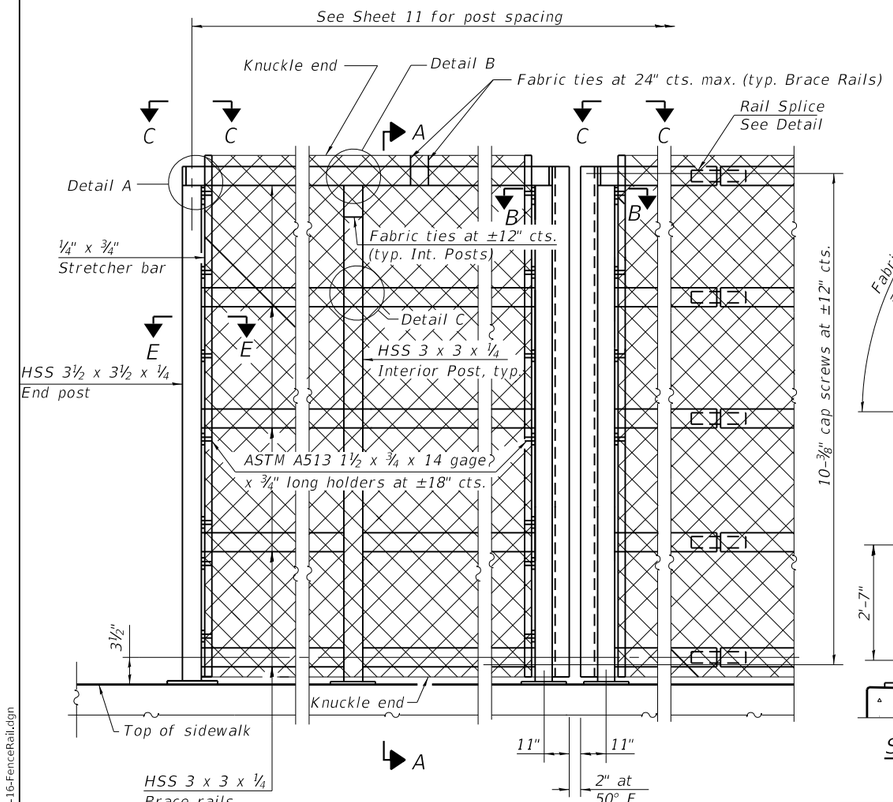
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH	3/19	REVISED -		
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

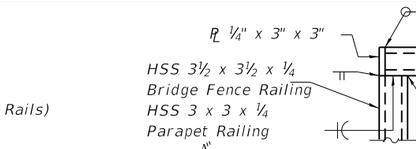
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 046-0151
SHEET 15 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	56
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

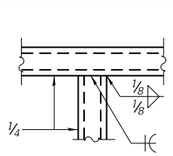
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



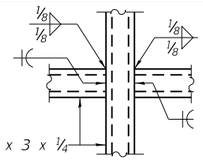
ELEVATION
(Inside Face)



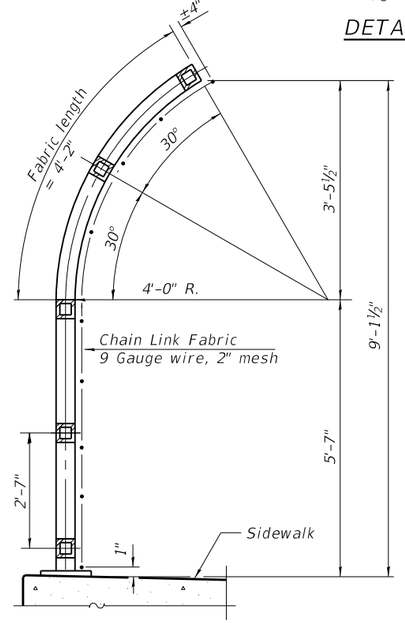
DETAIL A



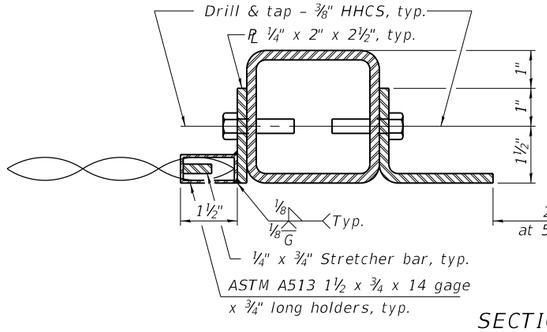
DETAIL B



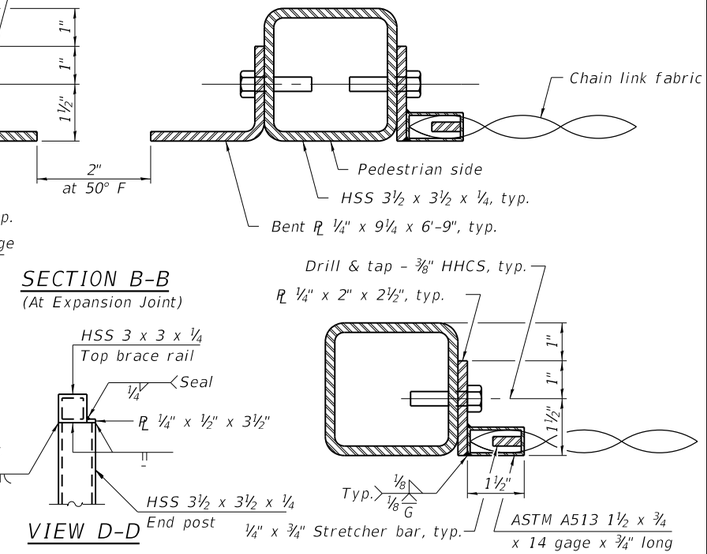
DETAIL C

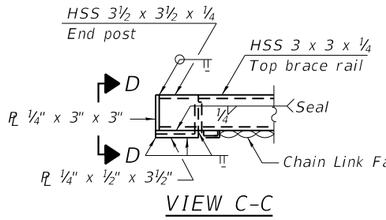


SECTION A-A



SECTION B-B
(At Expansion Joint)

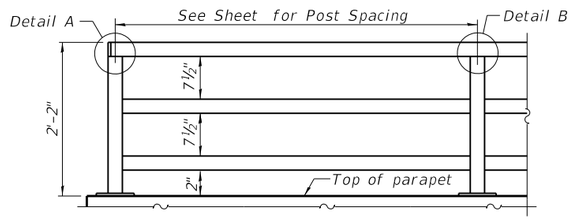




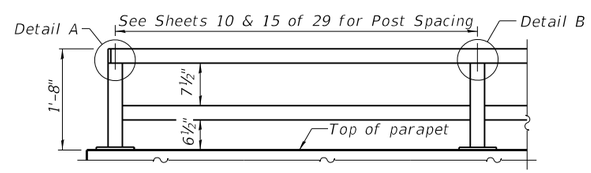
VIEW C-C

VIEW D-D

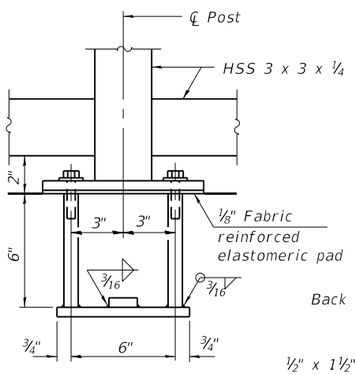
SECTION E-E



PARAPET RAILING ELEVATION
(Inside Face of Three Element Rail)



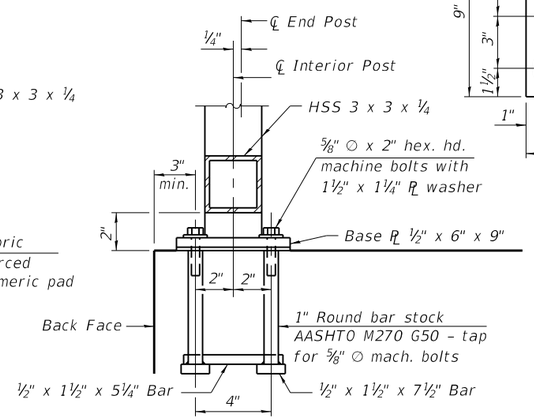
PARAPET RAILING ELEVATION
(Inside face of two element rail)

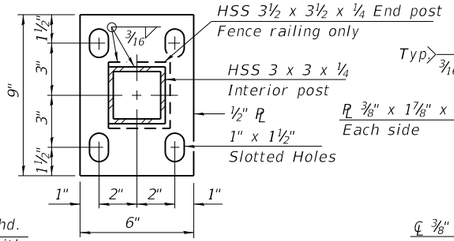


ANCHOR BOLT DETAILS

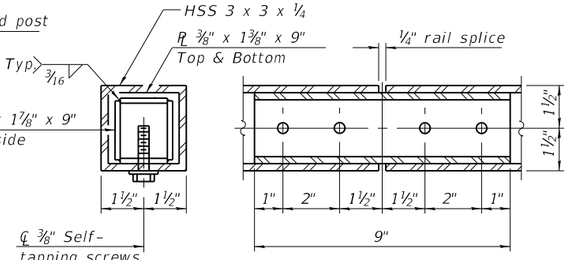
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ∅ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

(10'-0" Maximum Post Spacing)

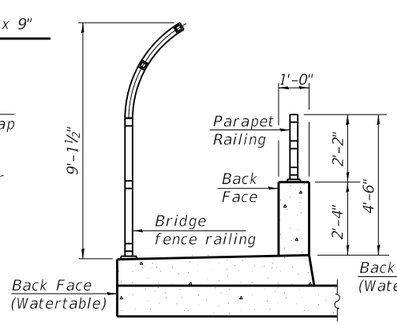




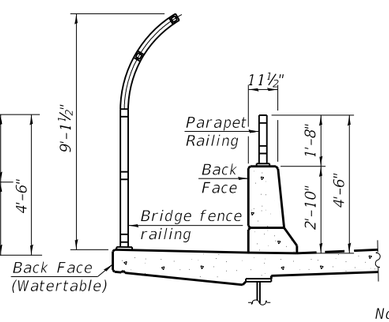
BASE PL



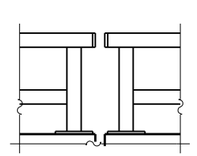
RAIL SPLICE



SECTION THRU SIDEWALK



SECTION THRU DECK



PARAPET RAILING ELEVATION AT EXPANSION JOINT

(Two element rail shown - Three element rail similar)

Notes:
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
CVN testing may be omitted for the Bridge Fence Railing.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing (Sidewalk)	Foot	245
Parapet Railing	Foot	275

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, SIDEWALK MOUNTED
STRUCTURE NO. 046-0151
SHEET 16 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	57
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

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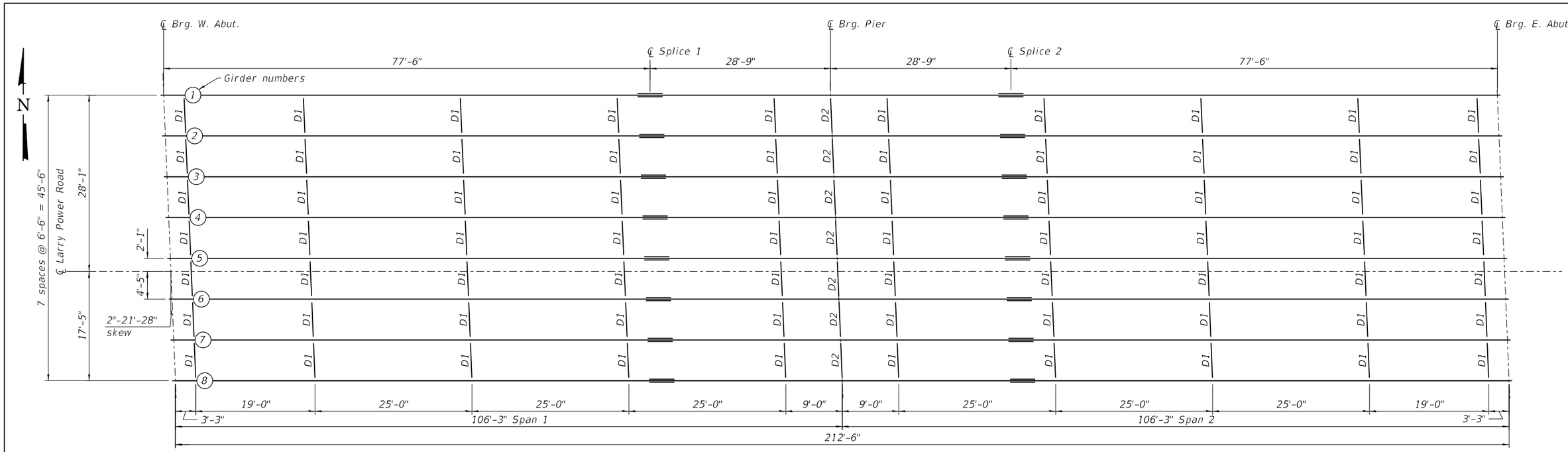
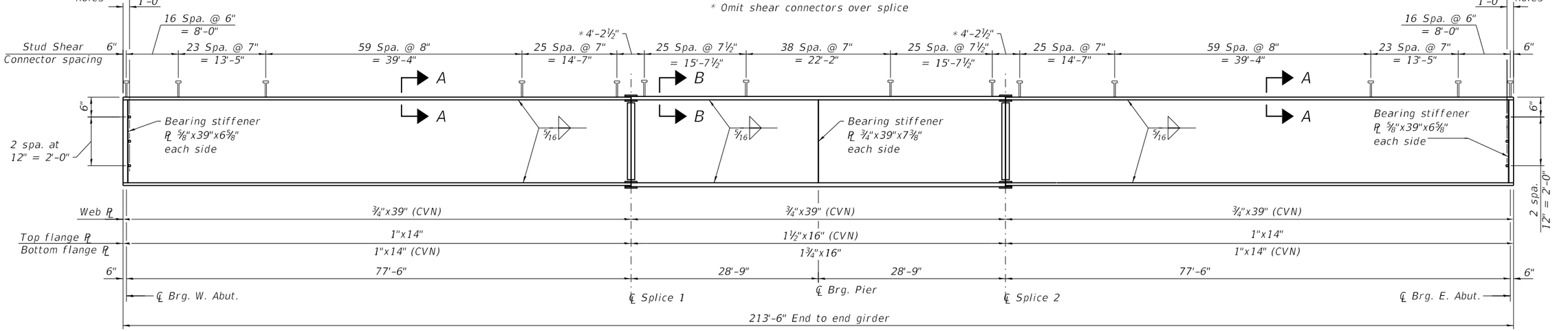


PLAN

* Omit shear connectors over splice



GIRDER ELEVATION

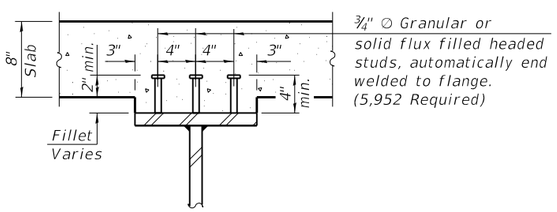
Notes:

See Sheets 18 to 20 of 29 for additional steel details.

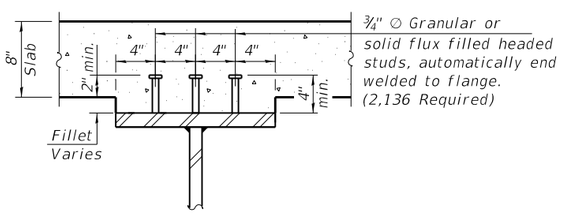
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated (CVN) denotes Charpy-V-Notch impact energy requirements, Zone 2.

AASHTO M270 grade 50 steel shall be used for all flange plates, web plates, bearing stiffeners, and diaphragm connecting plates.



SECTION A-A



SECTION B-B

ESCA CONSULTANTS, INC.	USER NAME = nugentaj	DESIGNED - RTM 1/19	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL FRAMING PLAN & DETAILS
STRUCTURE NO. 046-0151
SHEET 17 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	58
		CONTRACT NO. 66961		
		ILLINOIS FED. AID PROJECT		

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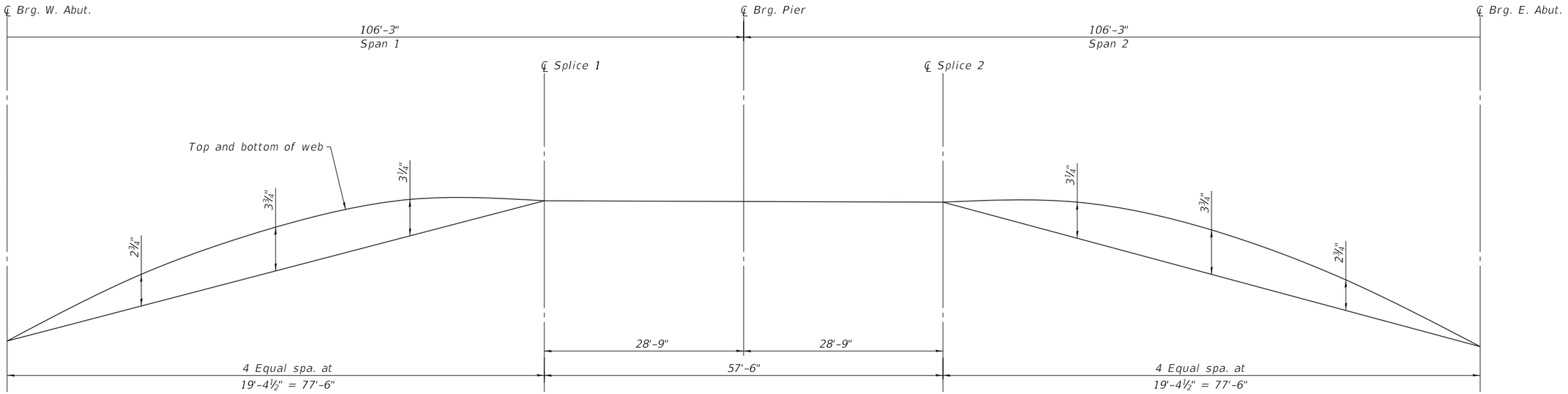

CAMBER DIAGRAM - GIRDERS 1 THROUGH 8

TOP OF WEB ELEVATIONS

(For fabrication only)

Girder	℄ Brg. W. Abut.	℄ Splice 1	℄ Brg. Pier	℄ Splice 2	℄ Brg. E. Abut.
1	719.39	720.43	720.43	720.42	719.39
2	719.29	720.32	720.32	720.32	719.29
3	719.32	720.35	720.35	720.34	719.31
4	719.43	720.45	720.45	720.44	719.40
5	719.53	720.55	720.55	720.54	719.49
6	719.51	720.52	720.51	720.50	719.45
7	719.41	720.42	720.41	720.40	719.35
8	719.32	720.33	720.32	720.31	719.25

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PLOT DATE = 9/4/2019	CHECKED - RTM/ELH	8/19	REVISED -		

STATE OF ILLINOIS
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CAMBER DIAGRAM
STRUCTURE NO. 046-0151
SHEET 18 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	59
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

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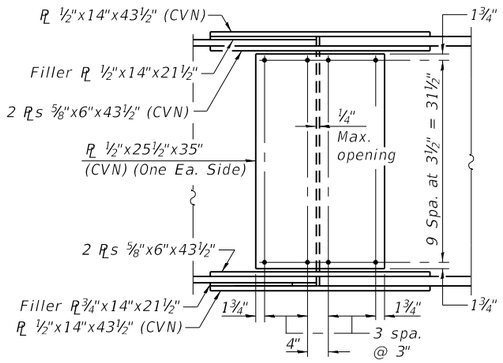
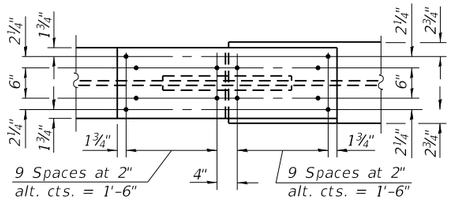
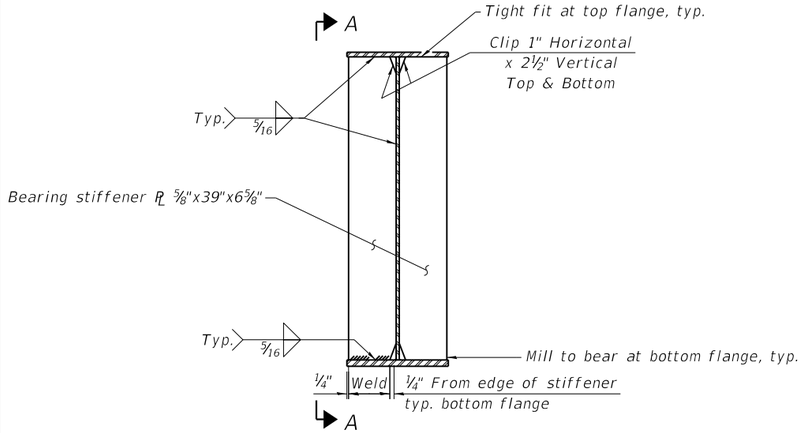
GIRDER REACTION TABLE					
		Abut.		Pier	
		Interior	Exterior	Interior	Exterior
LLDF		0.707	0.536	0.707	0.536
OCF		1.008	1.008	–	–
R_{DC1}	(k)	33.3	34.7	127.3	132.8
R_{DC2}	(k)	4.6	4.6	16.9	16.9
R_{DW}	(k)	12.4	12.4	44.3	44.3
R_{L}	(k)	66.2	50.2	134.5	101.9
R_{IM}	(k)	15.3	11.6	24.6	18.8
R_{Total}	(k)	131.8	113.5	347.6	314.7



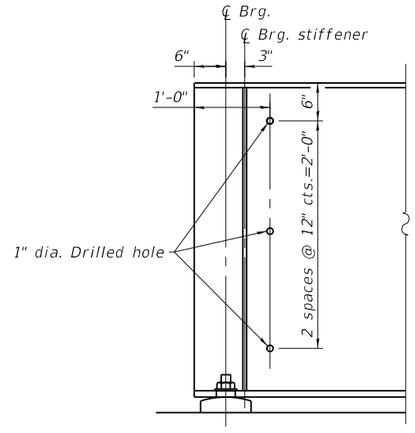


FIELD SPLICE DETAIL



BEARING STIFFENER DETAIL AT ABUTMENTS

(16 Required)



VIEW A-A

Note:
See Sheet 20 of 29 for bearing stiffener at pier.

INTERIOR GIRDER MOMENT TABLE			
		0.4 Sp. 1 or 0.6 Sp. 2	Pier
Is	(in^4)	14910	25097
Ic(n)	(in^4)	36376	54074
Ic(3n)	(in^4)	26448	39372
Ic(cr)	(in^4)	–	29600
Ss	(in^3)	727.0	1241.8
Sc(n)	(in^3)	1037.5	1622.3
Sc(3n)	(in^3)	931.7	1474.4
Sc(cr)	(in^3)	–	1329.5
DC1	(k/')	0.874	0.959
MDC1	('k)	622.2	1494.0
DC2	(k/')	0.123	0.123
MDC2	('k)	86.6	203.1
DW	(k/')	0.325	0.325
MDW	('k)	233.0	517.0
LLDF		0.54	0.54
M_{L+IM}	('k)	1290.0	1518.5
Mu (Strength I)	('k)	3493.0	5554.3
Øf Mn	('k)	5125.6	6409.3
fs DC1	(ksi)	7.2	11.1
fs DC2	(ksi)	1.1	1.8
fs DW	(ksi)	3.0	4.7
fs (L+IM)	(ksi)	14.9	13.7
fs (Service II)	(ksi)	30.7	35.4
0.95Rh Fyf	(ksi)	47.5	47.5
fs (Total)(Strength I)	(ksi)	41.0	47.2
Øf Fn	(ksi)	–	–
Vf	(k)	47.6	67.3

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
$1.25\ (MDC1 + MDC2) + 1.5\ MDW + 1.75\ M_{L+IM}$

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{L+IM} / Sc(n) or M_{L+IM} / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).
$fsDC1 + fsDC2 + fsDW + 1.3\ fs(L+IM)$

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (fsDC1 + fsDC2) + 1.5\ fsDW + 1.75\ fs(L+IM)$

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

LLDF: Live Load Distribution factor computed according to Table 4.6.2.2.2b-1 and Table 4.6.2.2.2d-1.

OCF: Obtuse correction factor computed according to Table 4.6.2.2.3c-1 or as simplified in Section 3.3.1 of the Bridge Manual.

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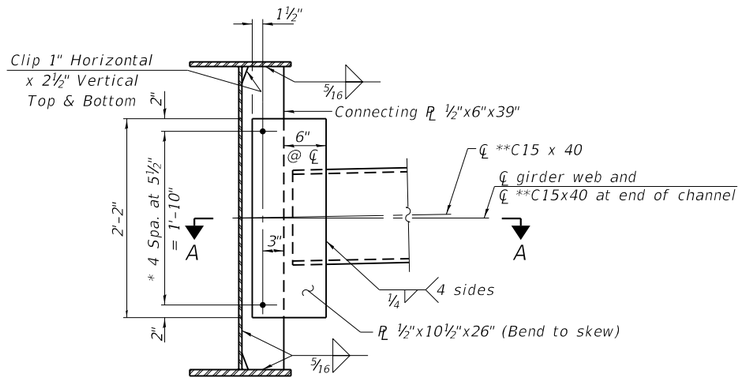
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

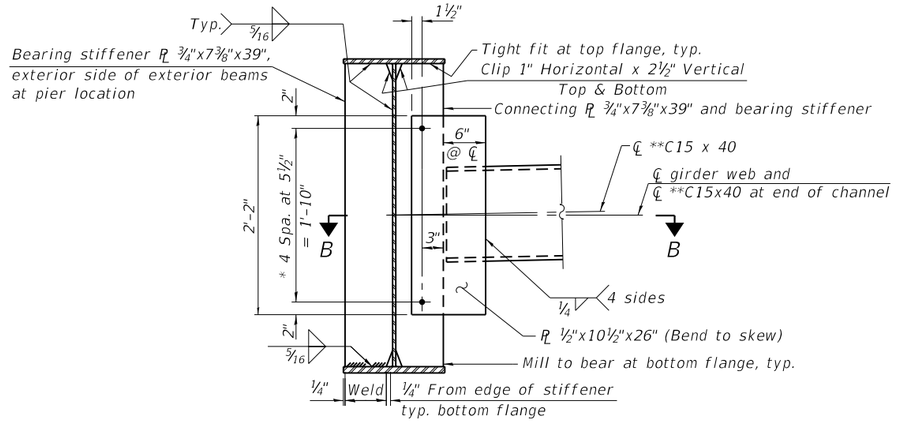
STEEL FRAMING DETAILS
STRUCTURE NO. 046-0151
SHEET 19 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	60
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



INTERIOR DIAPHRAGM (D1)

(70 Required)



INTERIOR DIAPHRAGM (D2)

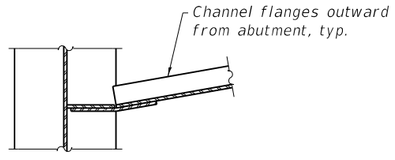
(7 Required)

Note:

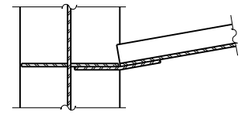
Two hardened washers required for each set of oversized holes.

** ¾" Ø HS bolts, 15/16" Ø holes*

*** Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the department.*



SECTION A-A



SECTION B-B

ESCA CONSULTANTS, INC.	USER NAME = nugentaj	DESIGNED - RTM 1/19	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**STEEL FRAMING DETAILS STRUCTURE NO. 046-0151**
	ESCA PROJECT NO. 1321.01	CHECKED - KJA 3/19	REVISED -		
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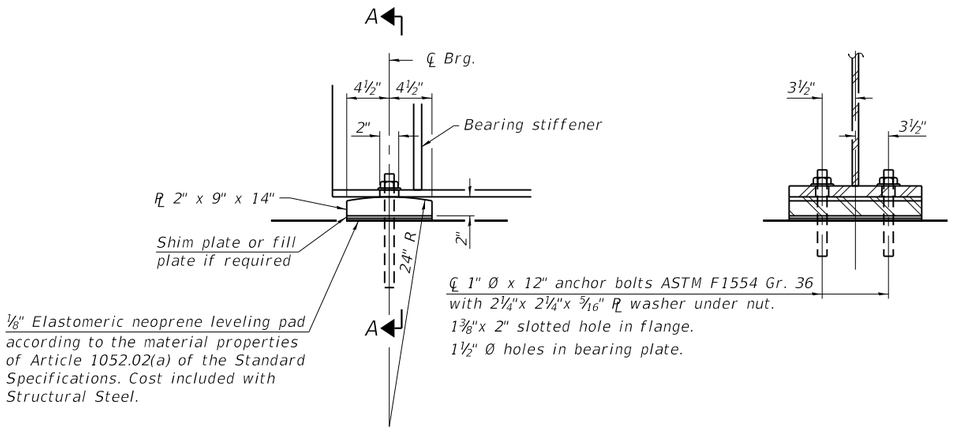
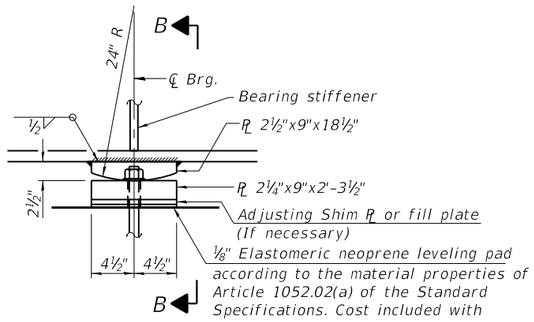
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	61
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



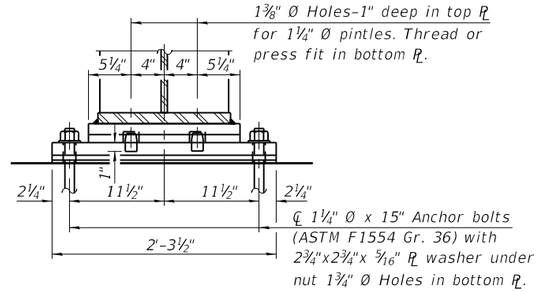
ELEVATION AT ABUTMENT

SECTION A–A

FIXED BEARING AT ABUTMENT

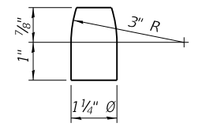


ELEVATION AT PIER



SECTION B–B

FIXED BEARING AT PIER



PINTLE

BEARING FILL PLATES

Location	Thickness
West Abutment Girder 3	⅜"
West Abutment Girder 5	¼"
Pier Girder 3	⅜"
Pier Girder 5	½"
East Abutment Girder 3	¼"
East Abutment Girder 4	⅝"
East Abutment Girder 5	1¾"
East Abutment Girder 6	1¼"

Notes:

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.

Girders shall be braced for stability during erection and remain braced until deck is poured and cured.

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

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.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	32
Anchor Bolts, 1¼"	Each	16

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 046–0151
SHEET 21 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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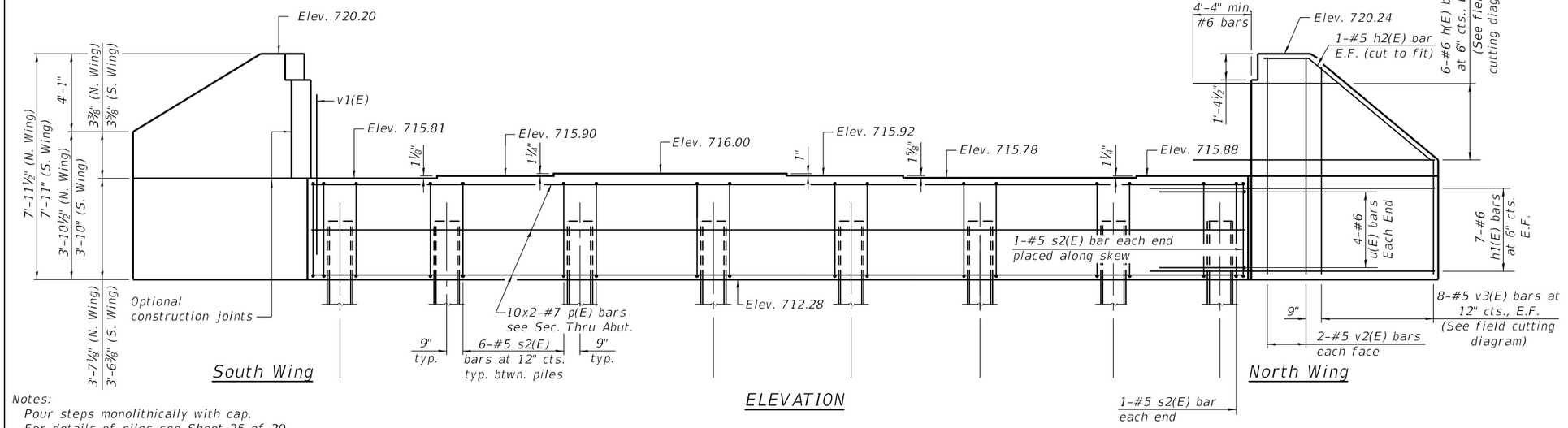
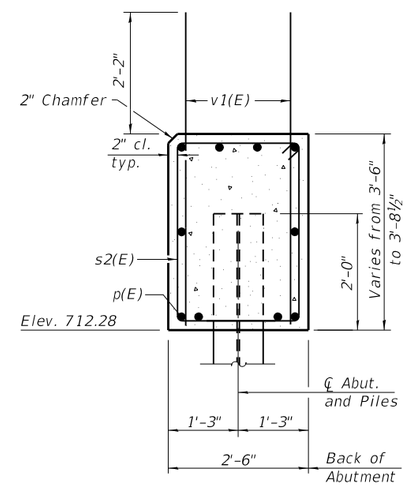
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		



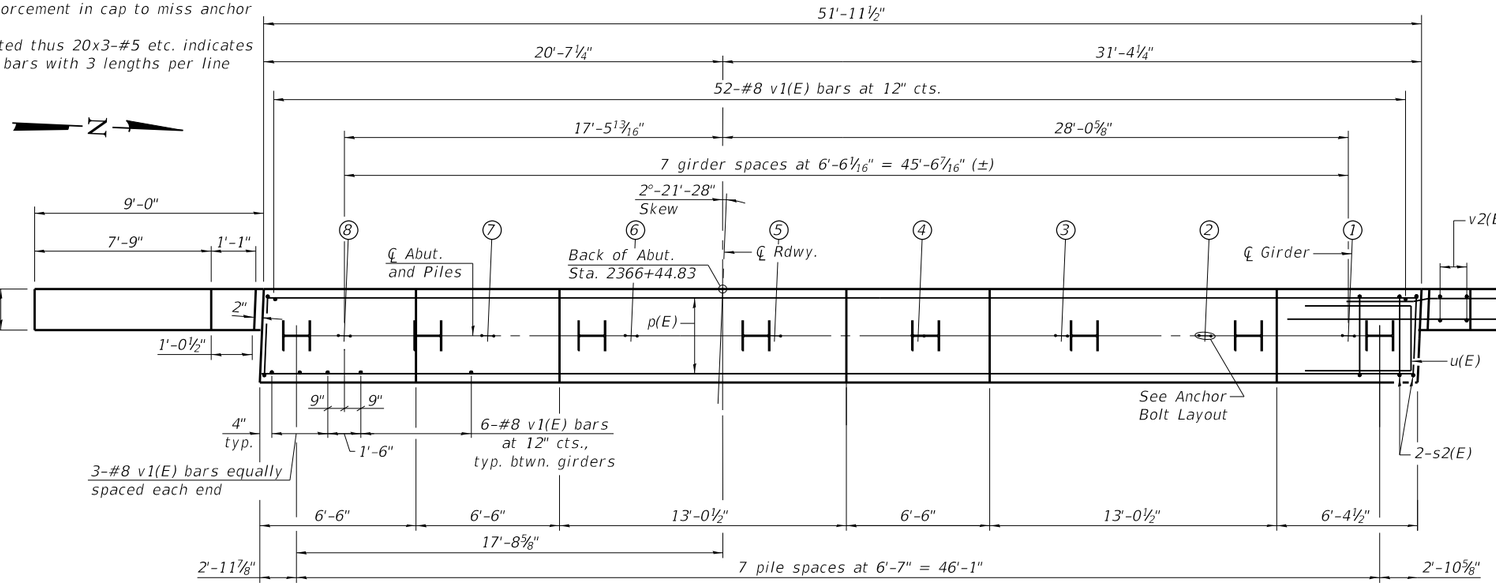
ELEVATION



SEC. THRU ABUT.

Dimensions at right angles to abutment.

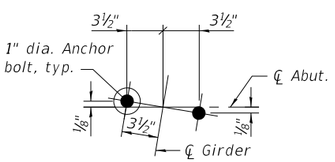
Notes:
- Pour steps monolithically with cap.
- For details of piles see Sheet 25 of 29.
- Space reinforcement in cap to miss anchor bolts.
- Bars indicated thus 20x3–#5 etc. indicates 20 lines of bars with 3 lengths per line



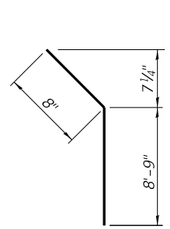
PLAN

PILE DATA

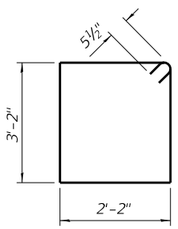
Type: HP12x63 with pile shoes
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 37'
No. Production Piles: 7
No. Test Piles: 1



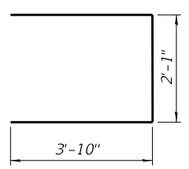
ANCHOR BOLT LAYOUT



BAR h2(E)



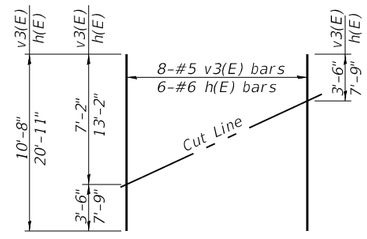
BAR s2(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#6	20'-11"	
h1(E)	28	#6	13'-2"	
h2(E)	4	#5	9'-5"	
p(E)	20	#7	28'-7"	
s2(E)	46	#5	11'-7"	
u(E)	8	#6	9'-9"	
v1(E)	100	#8	5'-6"	
v2(E)	8	#5	7'-7"	
v3(E)	16	#5	10'-8"	
Structure Excavation	Cu. Yd.		18	
Concrete Structures	Cu. Yd.		20.3	
Reinforcement Bars, Epoxy Coated	Pound		4520	
Furnishing Steel Piles HP12x63	Foot		259	
Pile Shoes	Each		8	
Test Pile, Steel HP 12x63	Each		1	
Driving Piles	Foot		259	



FIELD CUTTING DIAGRAM

Order v3(E) and h(E) full length. Cut as shown and use remainder of bars in opposite face.

MODEL: PLOT
FILE NAME: Y:\IDOT\1321-01_66961(CADD\SP SN 046-0151\0460151-66961-22-WAbut.dgn

10/31/2019 3:07:31 PM

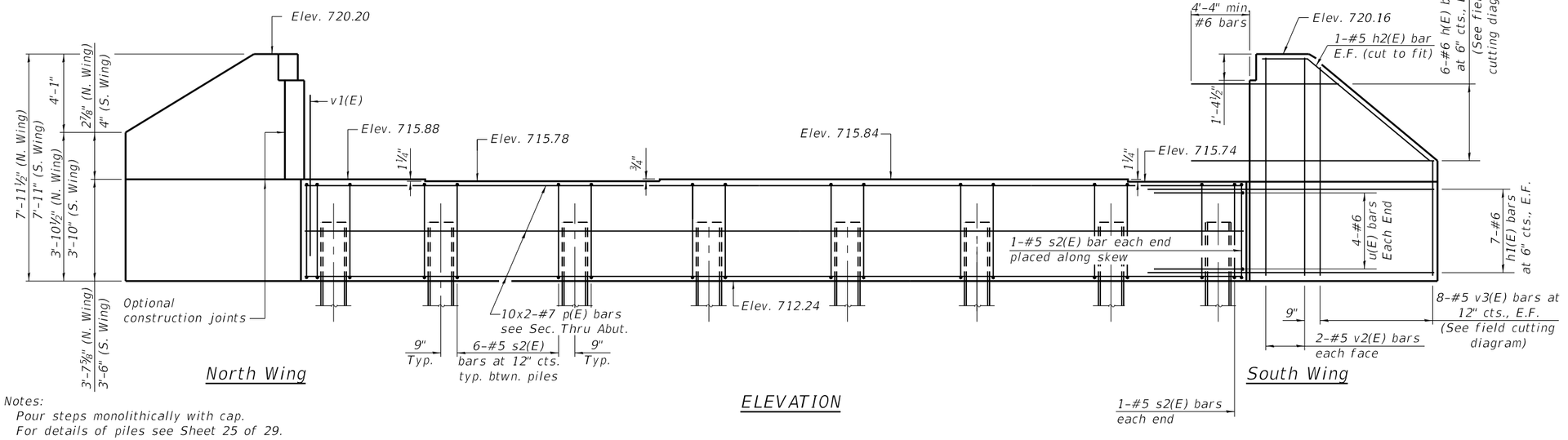
ESCA CONSULTANTS, INC.

USER NAME = kah	DESIGNED - RTM	1/19	REVISED -
ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH	3/19	REVISED -
PLOT DATE = 10/31/2019	CHECKED - RTM/ELH	8/19	REVISED -

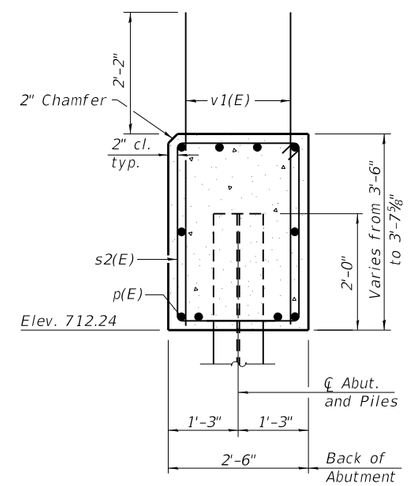
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 046–0151
SHEET 22 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	63
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			



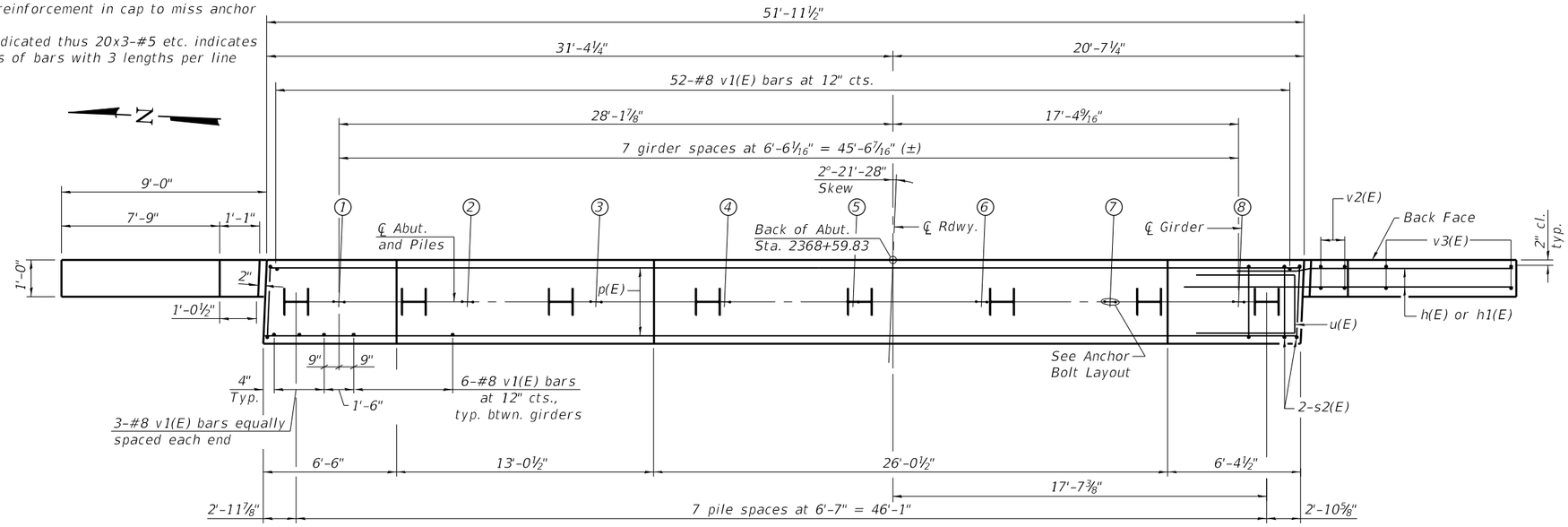
ELEVATION



SEC. THRU ABUT.

Dimensions at right angles to abutment.

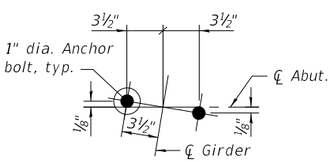
Notes:
- Pour steps monolithically with cap.
- For details of piles see Sheet 25 of 29.
- Space reinforcement in cap to miss anchor bolts.
- Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line



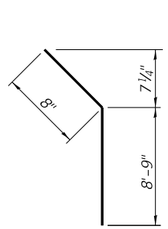
PLAN

PILE DATA

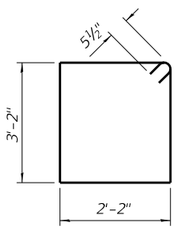
Type: HP12x63 with pile shoes
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 37'
No. Production Piles: 7
No. Test Piles: 1



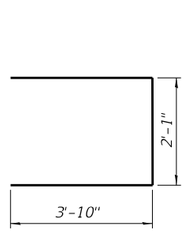
ANCHOR BOLT LAYOUT



BAR h2(E)



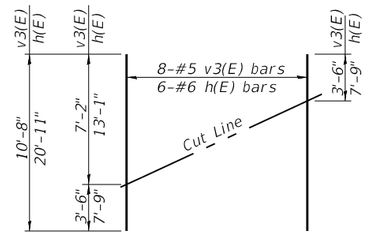
BAR s2(E)



BAR u(E)

BILL OF MATERIAL

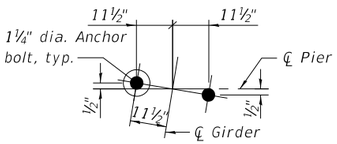
Bar	No.	Size	Length	Shape
h(E)	12	#6	20'-11"	
h1(E)	28	#6	13'-2"	
h2(E)	4	#5	9'-5"	
p(E)	20	#7	28'-7"	
s2(E)	46	#5	11'-7"	
u(E)	8	#6	9'-9"	
v1(E)	100	#8	5'-6"	
v2(E)	8	#5	7'-7"	
v3(E)	16	#5	10'-8"	
Structure Excavation	Cu. Yd.		18	
Concrete Structures	Cu. Yd.		20.2	
Reinforcement Bars, Epoxy Coated	Pound		4520	
Furnishing Steel Piles HP12x63	Foot		259	
Pile Shoes	Each		8	
Test Pile, Steel HP 12x63	Each		1	
Driving Piles	Foot		259	



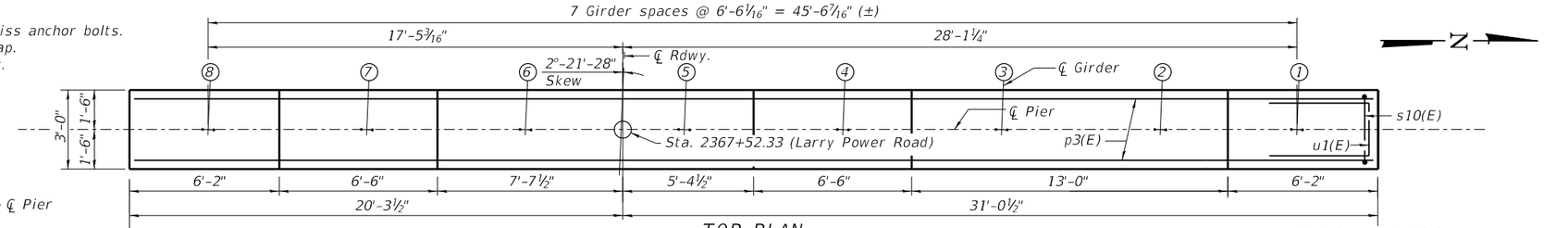
FIELD CUTTING DIAGRAM

Order v3(E) and h(E) full length. Cut as shown and use remainder of bars in opposite face.

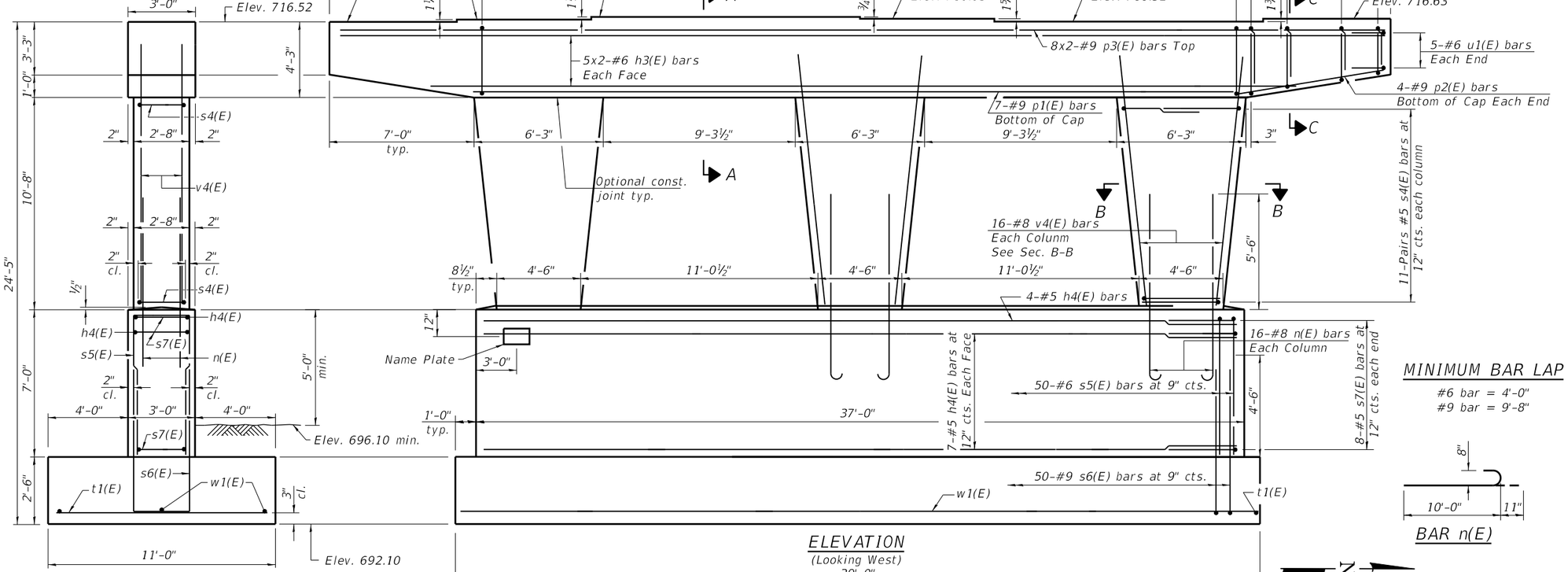
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line



ANCHOR BOLT LAYOUT



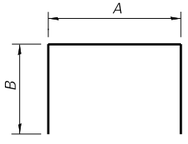
TOP PLAN



ELEVATION
(Looking West)

END VIEW

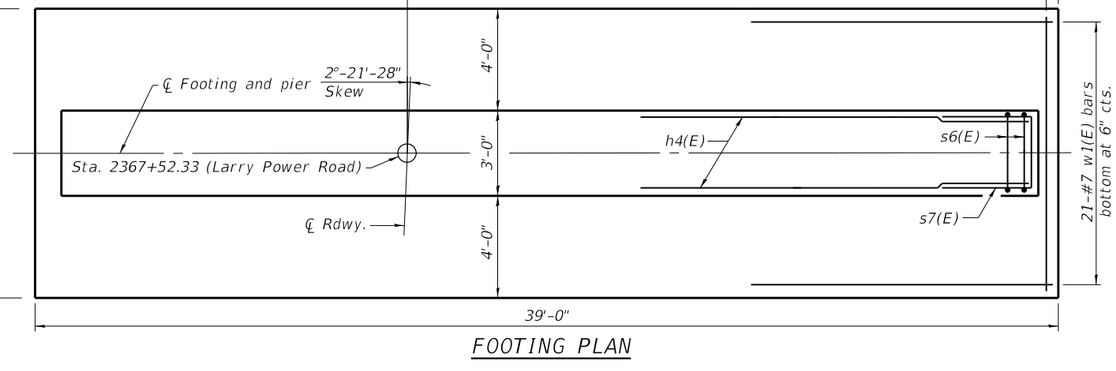
The pier footing maximum applied service bearing pressure = 9.5ksf



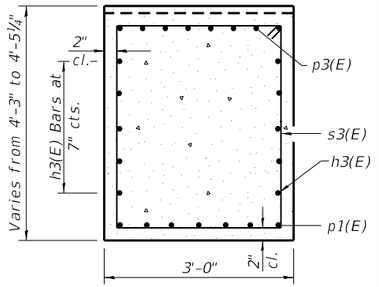
BARS s4(E) THRU s10(E)

A & B DIMENSIONS

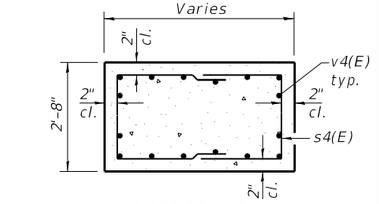
Bar	A	B
s4(E)	2'-4"	4'-2"
s5(E)	2'-8"	6'-8"
s6(E)	2'-8"	6'-9"
s7(E)	2'-5¾"	3'-6"
s8(E)	2'-8"	3'-8"
s9(E)	2'-8"	3'-3"
s10(E)	2'-8"	2'-11"



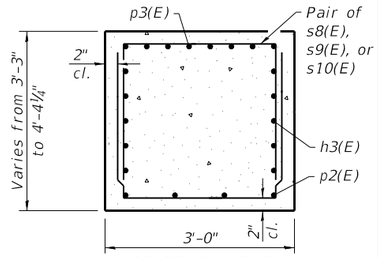
FOOTING PLAN



SECTION A-A



SECTION B-B

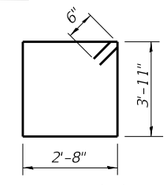


SECTION C-C

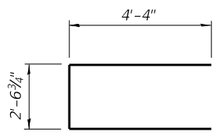
MINIMUM BAR LAP

#6 bar = 4'-0"
#9 bar = 9'-8"

BAR n(E)



BAR s3(E)



BAR u1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	20	#6	27'-6"	
h4(E)	18	#5	36'-8"	
n(E)	48	#8	10'-11"	
p1(E)	7	#9	37'-0"	
p2(E)	8	#9	7'-0"	
p3(E)	16	#9	30'-4"	
s3(E)	76	#5	14'-2"	
s4(E)	66	#5	10'-8"	
s5(E)	50	#6	16'-0"	
s6(E)	50	#9	16'-2"	
s7(E)	16	#5	9'-6"	
s8(E)	24	#5	10'-0"	
s9(E)	36	#5	9'-2"	
s10(E)	32	#5	8'-6"	
t1(E)	78	#8	10'-8"	
u1(E)	10	#6	11'-3"	
v4(E)	48	#8	12'-3"	
w1(E)	21	#7	38'-7"	
Structure Excavation		Cu. Yd.	77	
Concrete Structures		Cu. Yd.	109.6	
Reinforcement Bars, Epoxy Coated		Pound	18100	

ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

USER NAME = kah	DESIGNED - RTM/ELH 8/19	REVISED -	
ESCA PROJECT NO. 1321.01	CHECKED - KJA 8/19	REVISED -	
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH 8/19	REVISED -	
PLOT DATE = 10/31/2019	CHECKED - RTM/ELH 8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER
STRUCTURE NO. 046-0151
SHEET 24 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	65
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

MODEL: PLOT
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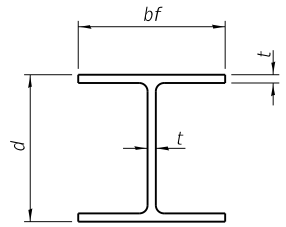
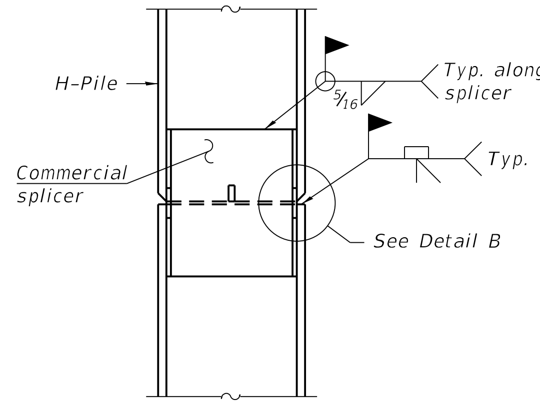
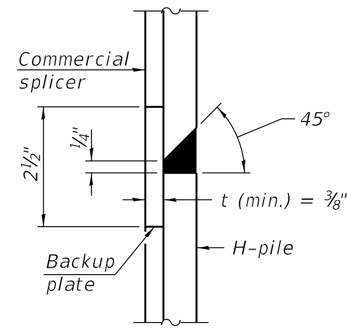


STEEL PILE TABLE

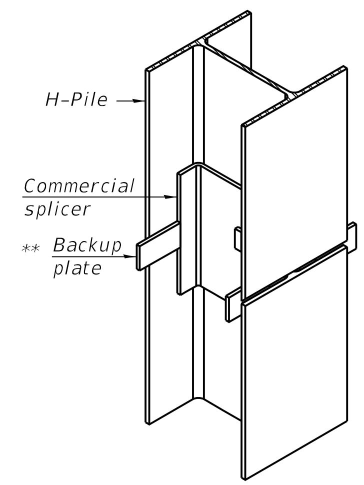
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	$\frac{13}{16}$"	30"
x102	14"	14¾"	$\frac{11}{16}$"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	$\frac{11}{16}$"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	$\frac{7}{16}$"	24"
HP 10x57	10"	10¼"	$\frac{9}{16}$"	24"
x42	9¾"	10⅛"	$\frac{7}{16}$"	24"
HP 8x36	8"	8⅛"	$\frac{7}{16}$"	18"



ELEVATION

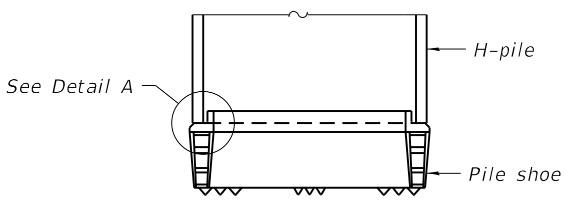


DETAIL "B"

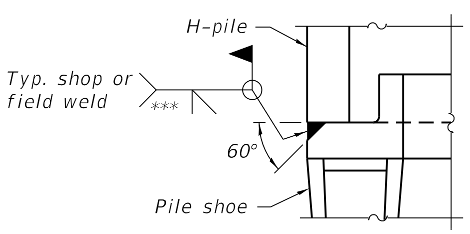


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



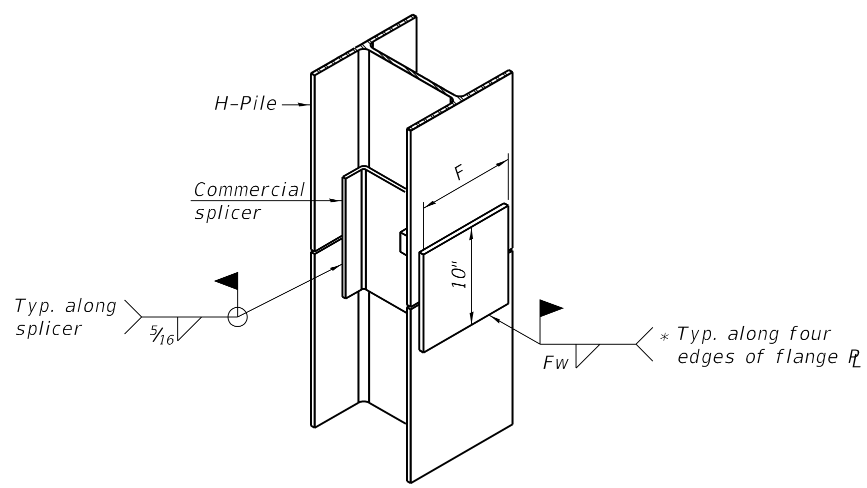
ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



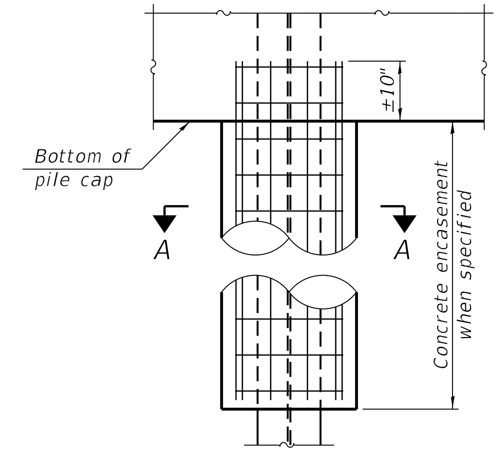
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

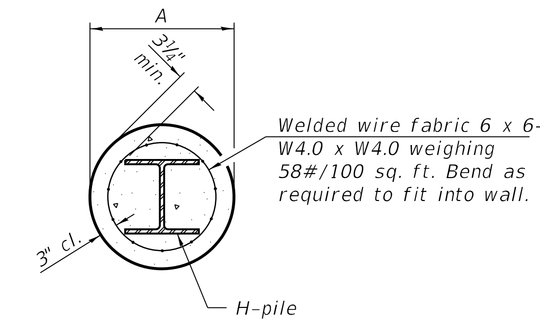
* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer ($\frac{5}{16}$" min.).



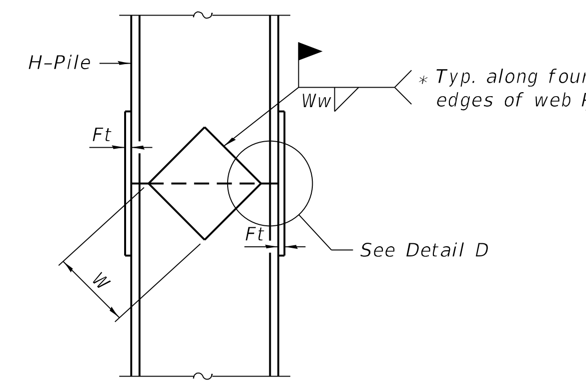
ELEVATION



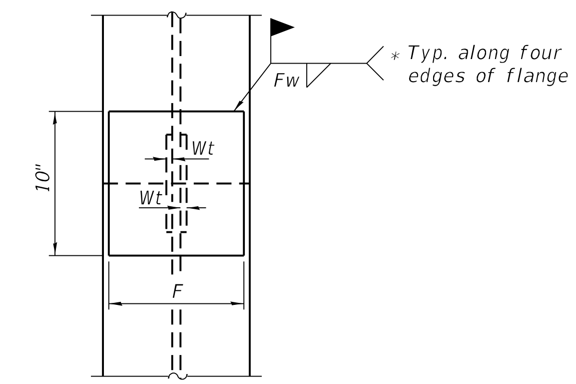
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

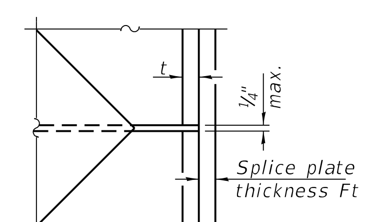
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW

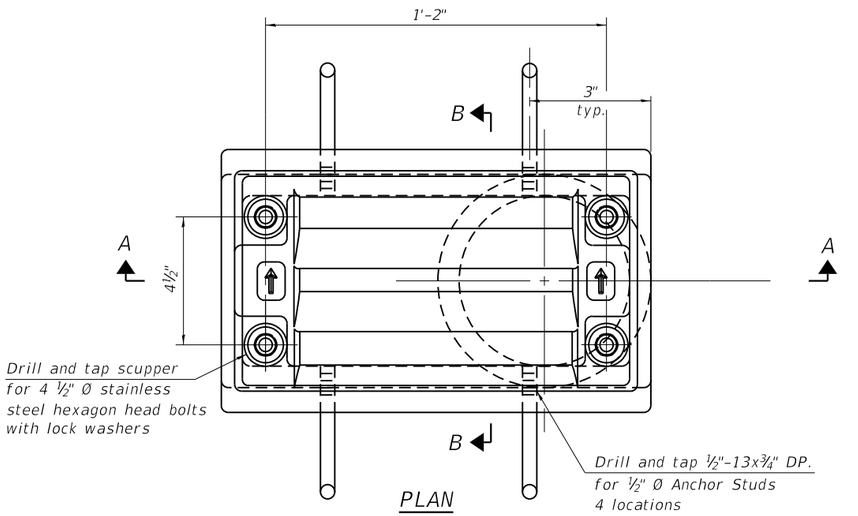


DETAIL D

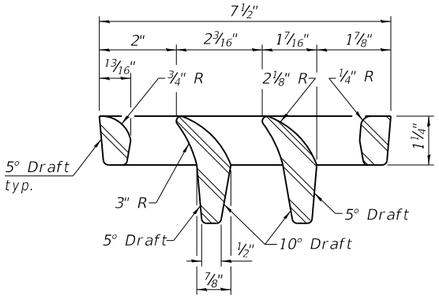
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	$\frac{11}{16}$"	7¾"	⅝"	½"
x73	12½"	⅝"	$\frac{9}{16}$"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	$\frac{11}{16}$"	6½"	⅝"	½"
x74	10"	⅞"	$\frac{11}{16}$"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	$\frac{9}{16}$"	5¼"	½"	⅜"
x42	8"	⅝"	$\frac{9}{16}$"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	$\frac{7}{16}$"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

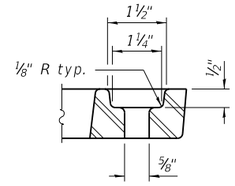
F-HP 8-11-2017



PLAN



VANE GRATE DETAIL



BOLT HOLE DETAIL

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.

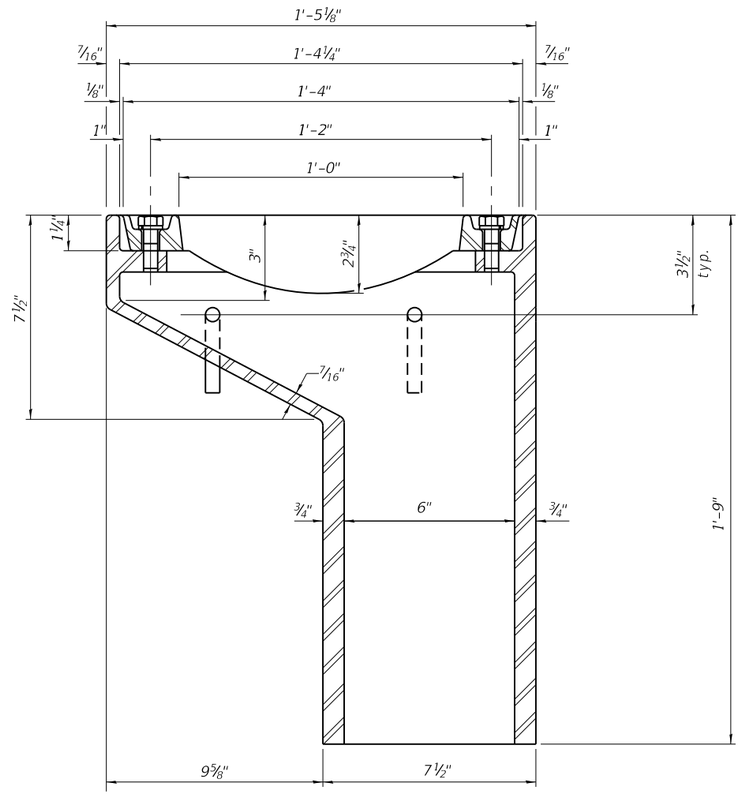
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

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.

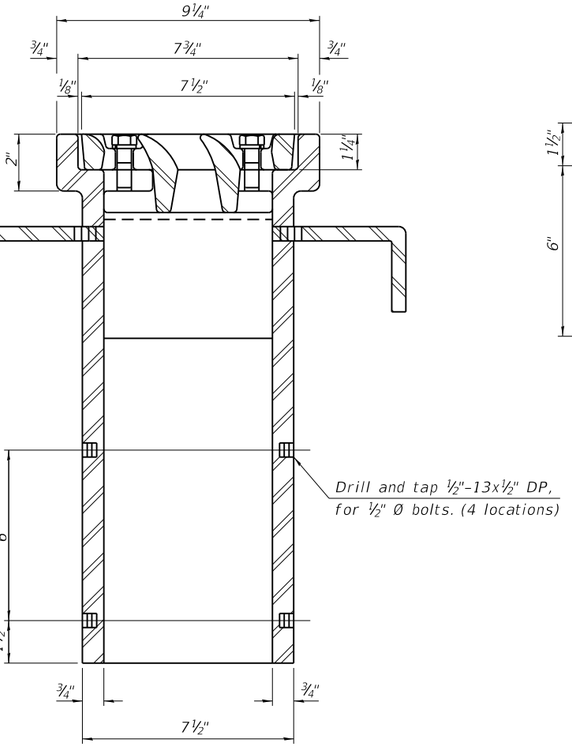
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

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.

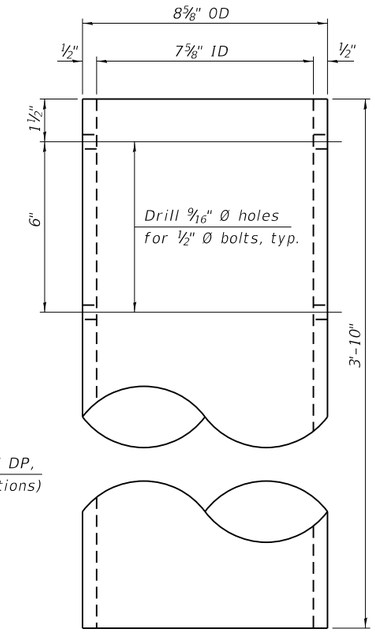


SECTION A-A

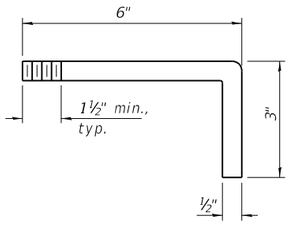
See Sheet 11 of 29 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

DS-11 2-17-2017

ESCA CONSULTANTS, INC.

USER NAME = nugentaj	DESIGNED - RTM	1/19	REVISED -		
ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -		
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH	3/19	REVISED -		
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER DS-11
STRUCTURE NO. 046-0151
SHEET 26 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	67
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
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8/15/2019 9:43:54 AM

Note:
Boring No. 1 (West Abutment)
Structure station: 2366+16
Offset: 6' Lt.

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 10/21/10

ROUTE I-57 (FAI 57) DESCRIPTION Larry Power Road over I-57, 1.2 Miles North of IL 50 LOGGED BY Larry Myers

SECTION 46-2 (1) HBR-2 LOCATION South 1/2, **SEC.** 8, **TWP.** 31N, **RNG.** 12E

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 046-0087 (Exist.)
Station 367+45.5 (I-57 Exist.)

BORING NO. 1 (W. Abut.)
Station 1366+16 (Larry Power)
Offset 6.00ft Lt.
Ground Surface Elev. 718.46 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
				Augered Bituminous, Brown Sand/Gravel Fill
715.96				
	4			Very Stiff Brown & Gray SIlty Clay Loam Till Fill with Layers of Black Topsoil
	5	3.5	17.3	
	4	P		
-5				
	3			
	3	3.0	19.2	
	3	P		
710.96				
	4			Hard Brown & Gray Silty Clay Loam Till Fill
	3	4.1	15.8	
	6	S		
-10				
	4			
	4	4.0	15.4	
	6	S		
	5			
	5	4.6	14.0	
	6	S		
-15				
	3			
	4	4.0	17.0	
	5	S		
	5			
	4	4.1	18.0	
	4	S		
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
	5			Hard Brown & Gray Silty Clay Loam Till Fill *(continued)*
	7	4.9	18.4	
	10	S		
695.96				
	11			Very Stiff Black Silty Clay Loam Topsoil
	9	3.5	21.5	
	7	P		
693.96				
-25				Very Stiff Grayish Brown Silty Clay Loam/Silty Loam Till
	4			
	6	3.5	20.3	
	10	P		
691.46				
	7			Hard Brown & Gray Silty Clay Loam Till
	9	7.8	12.7	
	15	S		
-30				
	6			
	8	5.9	17.6	
	10	S		
	6			
	9	5.1	18.2	
	12	S		
-35				
	8			
	12	6.8	18.1	
	15	S		
681.46				
	5			Very Stiff Gray Silty Clay Till
	6	3.1	17.1	
	8	B		
678.46 -40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 10/21/10

ROUTE I-57 (FAI 57) DESCRIPTION Larry Power Road over I-57, 1.2 Miles North of IL 50 LOGGED BY Larry Myers

SECTION 46-2 (1) HBR-2 LOCATION South 1/2, **SEC.** 8, **TWP.** 31N, **RNG.** 12E

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 046-0087 (Exist.)
Station 367+45.5 (I-57 Exist.)

BORING NO. 1 (W. Abut.)
Station 1366+16 (Larry Power)
Offset 6.00ft Lt.
Ground Surface Elev. 718.46 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Material
	3			Very Stiff Brown Loam with Dolostone Fragments
	5	2.5	11.7	
676.96	5	P		
				White to Tan Dolostone Weathered and Reworked in Top 12"
675.29	61			
	100/2"		8.4	End of Boring
-45				
-50				
-55				
-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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8/15/2019 9:44:29 AM

ESCA CONSULTANTS, INC.

USER NAME = nugentaj	DESIGNED - RTM	1/19	REVISED -	
ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -	
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH	3/19	REVISED -	
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 046-0151
SHEET 27 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	68
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

Note:
Boring No. 2 (East Abutment)
Structure station: 2368+87
Offset: 6' Rt.

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation

Date 10/21/10

ROUTE I-57 (FAI 57) DESCRIPTION Larry Power Road over I-57, 1.2 Miles North of IL 50 LOGGED BY Larry Myers

SECTION 46-2 (1) HBR-2 LOCATION North 1/2, SEC. 17, TWP. 31N, RNG. 12E

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 046-0087 (Exist.)
Station 367+45.5 (I-57 Exist.)

BORING NO. 2 (E. Abut.)
Station 1368+87 (Larry Power)
Offset 6.00ft Rt.
Ground Surface Elev. 718.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Bituminous, Brown Sand/Gravel Fill			
715.80			
Hard and Very Stiff Gray Silty Clay Loam Till Fill	4		
	6 8	4.5 P	12.5
-5	3		
	1 4	3.0 P	13.3
711.30			
Very Stiff Brown & Gray Silty Clay Loam Till Fill with Topsoil mixed in at 20'	3		
	4 6	3.5 P	19.9
-10	3		
	6 9	3.5 P	19.4
	3		
	4 6	3.1 B	21.0
-15	4		
	4 6	3.3 B	24.3
	4		
	5 6	3.1 B	18.0
-20			
Very Stiff Brown & Gray Silty Clay Loam Till Fill with Topsoil mixed in at 20' *(continued)*	4		
	4 5	3.0 P	24.6
695.80			
Hard Black Silty Clay Loam Topsoil	6		
	8 13	4.0 P	21.2
693.80			
Very Stiff Gray & Brown Silty Clay Loess	3		
-25			
	4 5	3.0 B	25.1
691.30			
Very Stiff to Hard Brown & Gray Silty Clay Loam Till	4		
	5 6	3.5 B	21.7
-30	6		
	8 12	4.2 S	18.0
	6		
	9 13	4.7 S	20.0
-35	6		
	8 13	5.1 S	17.4
681.30			
Very Stiff Gray Silty Clay Till	5		
	6 8	3.1 B	17.8
678.80			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation

Date 10/21/10

ROUTE I-57 (FAI 57) DESCRIPTION Larry Power Road over I-57, 1.2 Miles North of IL 50 LOGGED BY Larry Myers

SECTION 46-2 (1) HBR-2 LOCATION North 1/2, SEC. 17, TWP. 31N, RNG. 12E

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 046-0087 (Exist.)
Station 367+45.5 (I-57 Exist.)

BORING NO. 2 (E. Abut.)
Station 1368+87 (Larry Power)
Offset 6.00ft Rt.
Ground Surface Elev. 718.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff Brown Loam with Dolostone Fragments *(continued)*	3		
	4 5	2.5 P	16.1
676.80			
White to Tan Dolostone Weathered & Reworked in Top 12"	41		
675.22			
End of Boring	100/1"		14.4
-45			
-50			
-55			
-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

ESCA CONSULTANTS, INC.

USER NAME = nugentaj	DESIGNED - RTM	1/19	REVISED -	
ESCA PROJECT NO. 1321.01	CHECKED - KJA	3/19	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - KAH	3/19	REVISED -	
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH	8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 046–0151
SHEET 28 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	69
		CONTRACT NO. 66961		
	ILLINOIS FED. AID PROJECT			

Note:
Boring No. 3 (Center Pier)
Structure station: 2367+61
Offset: 24' Lt.

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 10/22/10

ROUTE I-57 (FAI 57) **DESCRIPTION** Larry Power Road over I-57, 1.2 Miles North of IL 50 **LOGGED BY** Larry Myers

SECTION 46-2 (1) HBR-2 **LOCATION** South 1/2, **SEC.** 8, **TWP.** 31N, **RNG.** 12E

COUNTY Kankakee **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 046-0087 (Exist.)
Station 367+45.5 (I-57 Exist.)

BORING NO. 3 (Center Pier)
Station 1367+61 (Larry Power)
Offset 24.00ft Lt.
Ground Surface Elev. 697.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Black Silty Clay Loam Fill			
694.80			
Very Stiff Brown & Gray Silty Clay Loess	4		
	5 7	3.5 P	27.8
692.80			
Hard Brown & Gray Silty Clay Loam Till	3		
	5 6	4.0 S	19.7
	5		
	6 8	5.6 S	17.3
-10	5		
	6 10	6.6 S	13.9
	6		
	8 14	9.9 S	18.2
-15	4		
	6 9	7.0 S	19.7
	5		
	8 10	6.2 S	19.7
678.30			
White to Tan Dolostone Weathered & Reworked in Top 12"			
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
676.72	72		
End of Boring	100/1"		6.7
-25			
-30			
-35			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

MODEL: PLOT
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8/15/2019 9:45:49 AM

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = nugentaj	DESIGNED - RTM 1/19	REVISED -	
ESCA PROJECT NO. 1321.01	CHECKED - KJA 3/19	REVISED -	
PLOT SCALE = 0:2 ':" / in.	DRAWN - KAH 3/19	REVISED -	
PLOT DATE = 8/15/2019	CHECKED - RTM/ELH 8/19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 046-0151
SHEET 29 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	70
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
FAI-57	4	KANKAKEE	22	6
STA		TO STA		
FED ROAD DIST No 7	ILLINOIS	FED AID PROJECT		

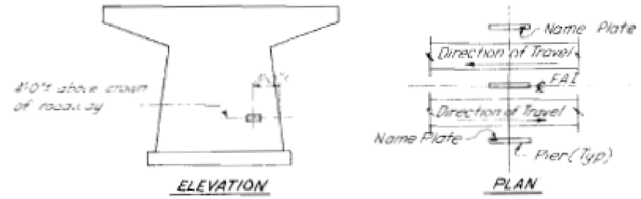
SHT 1 OF 10

BILL OF MATERIAL

ITEM		SUPER	SUB	TOTAL
Class X Concrete (Structures)	Cu Yds	368.5	189.9	558.4
Reinforcement Bars	Lbs	96,317	21,795	118,112
Structural Steel	Lbs	8,936		8,936
METAL Handrail	Lin Ft	481	—	481
Name Plates	Each	—	2	2
Slope Wall	Sq. Yds.	—	336	336
Class A Excavation for Structures	Cu Yds	—	104	104
Steel Piles, 10BP42	Lin Ft	—	989	989
Test Piles (Steel)	Each	—	3	3
PROTECTIVE COAT	SQ YD	147	—	147

SHEET INDEX

SHEET NO.	TITLE
1	INDEX AND BILL OF MATERIAL
2	GENERAL PLAN AND ELEVATION
3	SUPERSTR. X-SECTION, BRG. DETAILS & GIRD ORD'S
4	SUPERSTR SLAB REINFORCING
5	SUPERSTR. GIRDER DETAILS
6	METAL HANDRAIL
7	PIERS NO 1 & 3 (EXPANSION)
8	PIER NO 2 (FIXED)
9	ABUTMENTS
10	BORING DATA



NAME PLATE LOCATION

GENERAL LEGEND

ELEVATION MARKER

SECTION MARKER - THE LETTER IDENTIFIES THE SECTION AND THE NUMBER REFERS TO THE SHEET ON WHICH THE SECTION IS DETAILED.

DETAIL IDENTIFICATION SYMBOL - THE LETTER IDENTIFIES THE SECTION AND THE NUMBER REFERS TO THE SHEET ON WHICH THE SECTION IS LOCATED.

(2) GIRDER IDENTIFICATION SYMBOL

DESIGN NOTES

SPECIFICATIONS
DESIGN: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES OF A.A.S.H.O., 1961 EDITION.
CONSTRUCTION: STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1958, AND SUPPLEMENTAL SPECIFICATIONS EFFECTIVE APRIL 2, 1962

DESIGN STRESSES
f_c' = 3,500 psi
f_c = 1,400 psi - SUPER.
f_c = 1,000 psi - SUB. (WITH EARTH PRESSURE)
f_s = 30,000 psi - (REINFORCEMENT)
f_s = 20,000 psi - (STRUCTURAL STEEL - A36 STEEL)
v = 75 psi - PIER FOOTING
n = 10

LOADING
H15-S12-44
FUTURE WEARING SURFACE = 10 psf.

GENERAL NOTES

CLASS C CONCRETE SHALL BE USED THROUGHOUT.
THE CONCRETE FLOOR SLABS SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19 OF THE STANDARD SPECIFICATION.
MINIMUM LAP FOR ALL BAR SPLICES SHALL BE 30 DIAMETERS UNLESS OTHERWISE NOTED.
SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, NO. 4 WIRES, WEIGHING 58 LBS. PER 100 SQ. FT.
COARSE AGGREGATE TO BE USED IN THE END POSTS MUST BE ABSOLUTELY FREE OF CHERT, FLINT, LIMONITE, LIGNITE AND SOFT SANDSTONE.

ALL ROCKERS, BEARING PLATES, LEAD PLATES, PINTLES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.
THE EXPOSED SURFACES OF THE ARMOR ANGLES SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT. THE CONTACT SURFACES SHALL BE GIVEN ONE COAT OF RED LEAD PAINT. ANCHOR STUDS SHALL NOT BE PAINTED.
ARMOR ANGLES ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.

EXCEPT AS OTHERWISE PROVIDED ALL STRUCTURAL STEEL AND HANDRAILS SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. THE 1/2" ϕ STUDS USED FOR ANCHORAGE OF TOP BEARING PLATES SHALL NOT BE PAINTED. SEE ARTICLES 56.1 TO 56.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS.
THE CONTRACTOR SHALL DRIVE 3 TEST PILES IN PERMANENT LOCATIONS AS NOTED AND DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES. (ONE STEEL PILE AT EACH ABUTMENT AND AT FIXED PIER)
ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR.
THE FOLLOWING BRIDGE DRAWINGS ARE NOT TO SCALE AND SHOULD NOT BE USED FOR SCALING PURPOSES.

STATION 367+45.50
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC 46-2(1)HB-2

LOADING H15-S12

LETTERING FOR NAME PLATE
See Standard 2113

DESIGNED
CHECKED
DRAWN L.S.
CHECKED
EXAMINED ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED ENGINEER OF DESIGN
APPROVED CHIEF HIGHWAY ENGINEER

REVISIONS: Changed A-7 Struc. Steel to A-36 Steel, Removed 1381.4 Ft. Cross Piles and revised Steel Piles from 891.4 Ft. to 989 Ft. S.E. 1-16-63

STANLEY ENGINEERING COMPANY
MUSCATINE, IOWA CHICAGO, ILLINOIS

ILLINOIS DIVISION OF HIGHWAYS
STRUCTURES
INDEX AND BILL OF MATERIAL
F.A.I. RTE. 57 SEC 46-2(1)HB-2
KANKAKEE COUNTY
STA. 367+45.50

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

SCALE: | SHEET 1 OF 9 SHEETS | STA. | TO STA.

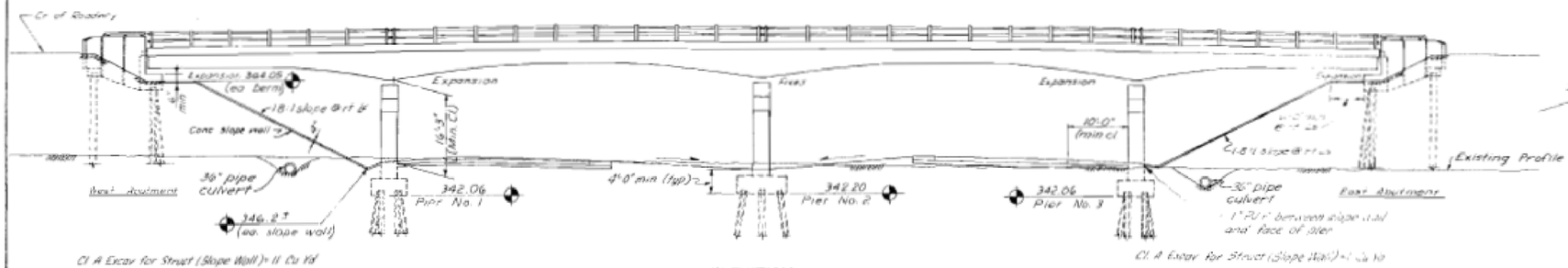
F.AI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	71
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-57	1	KANKAKEE	22	1
STA.		TO STA.		
FED ROAD DIST No. 7	ILLINOIS FED. AID PROJECT			

SHT 2 OF 10

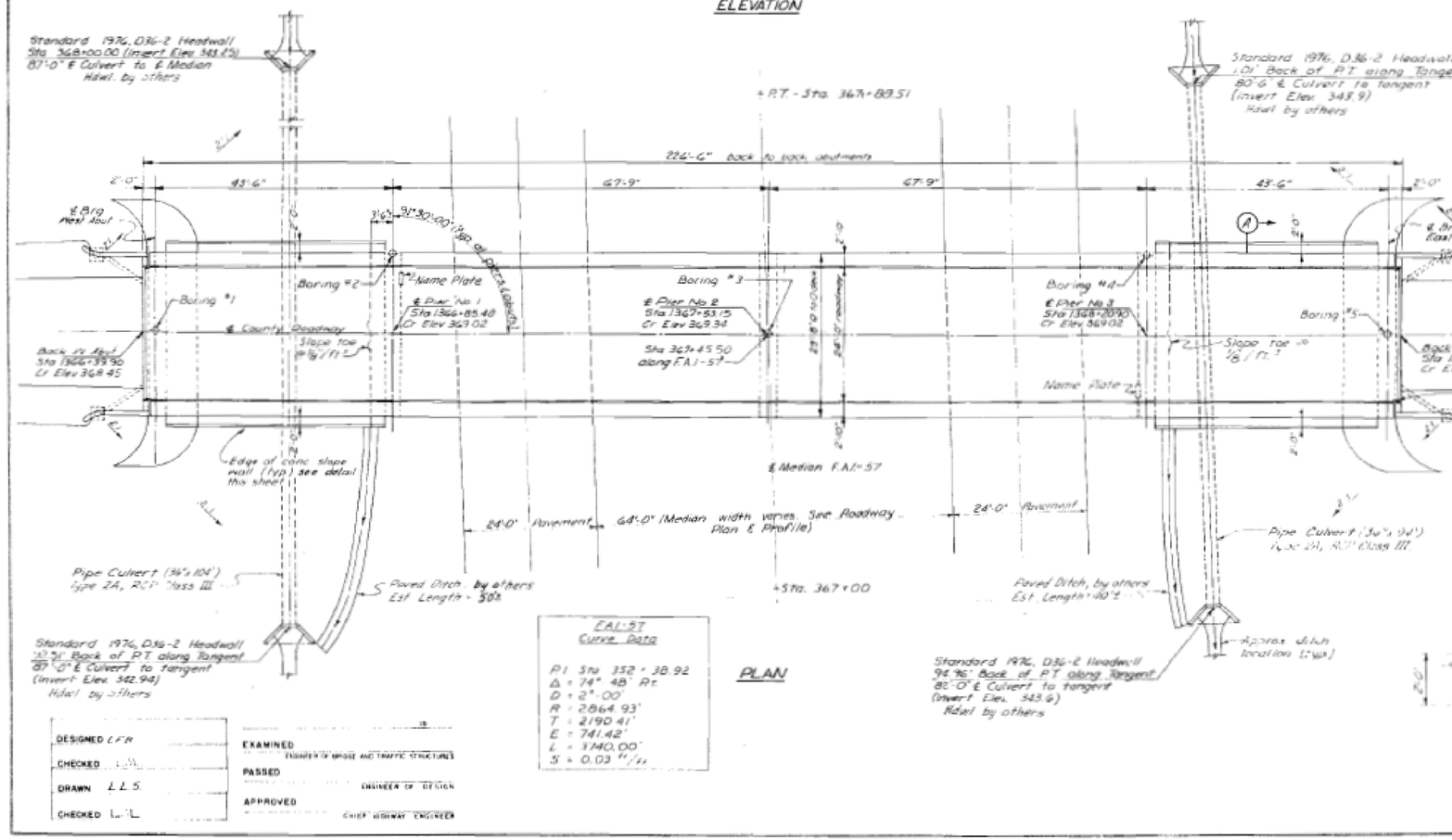
Bench mark data
B.M. #10 R.R. Spk. in W side
P.P. 320' Rt. & F.A.I.-57
Sta. 367+15 Elev. 346.77
No existing structure



ELEVATION

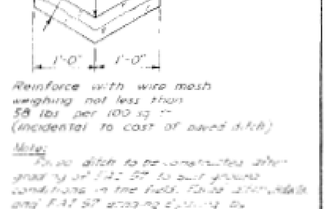
GRADE PROFILES

Note
County Roadway Classification "E-1", Mainline



FAI-57
Curve Data
P.I. Sta 352 + 38.92
Δ = 74° 48' Rt.
D = 2° 00'
R = 2864.93'
T = 2190.41'
E = 741.42'
L = 3140.00'
S = 0.03 ft/ft

PLAN



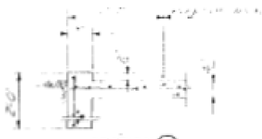
Reinforce with wire mesh weighing not less than 58 lbs per 100 sq. ft. (incidental to cost of paved ditch)

Note:
Paved ditch to be constructed after grading of FAI-57 to suit ground conditions in the field. Paved ditch details and FAI-57 grading shall be by Contractor for Sec 46 (2)(3).

PAVED DITCH

BILL OF MATERIAL

Item	Unit	Quantity
Slope Wall	sq. yds.	33.0



SECTION (A)

ILLINOIS DIVISION OF HIGHWAYS

GENERAL PLAN AND ELEVATION
F.A.I. RT. 57 SEC. 46-2(1)HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+49.50

DESIGNED	L.F.N.	
CHECKED	L.M.	
DRAWN	L.L.S.	
CHECKED	L.L.	

EXAMINED ..... ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED ..... ENGINEER OF DESIGN
APPROVED ..... CHIEF HIGHWAY ENGINEER

USER NAME = nugentaj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

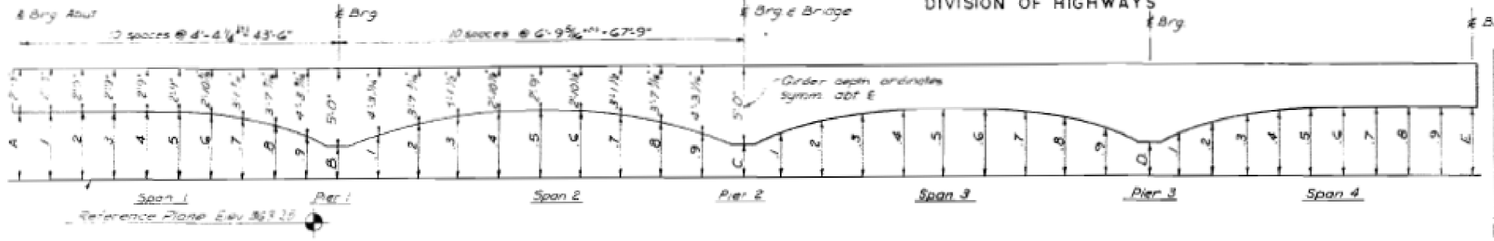
EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

SCALE: | SHEET 2 OF 9 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	72
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw:\\ulanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 3\Projects\D3669615\CAD\Data\CADSheets\D3669615-sht-existingstructure.dgn

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

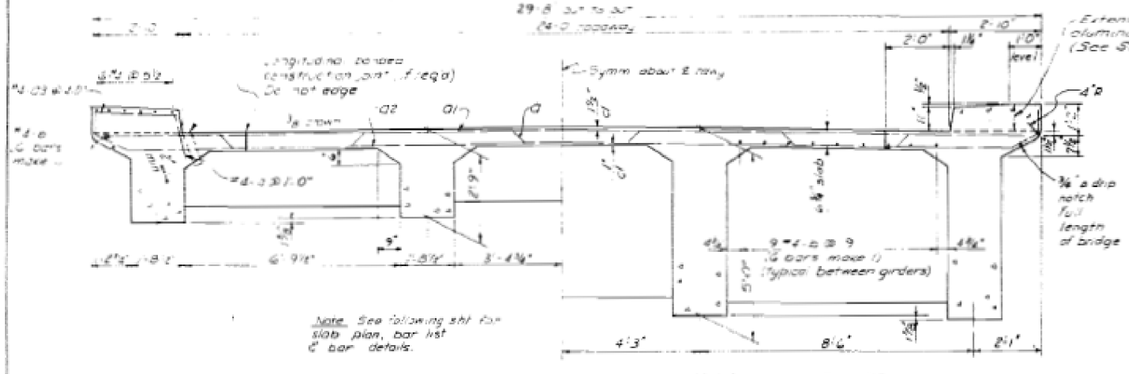


GIRDER ORDINATES

TABLE OF ORDINATES

GIRDER	POINT	1	2	3	4	5	6	7	8	9	POINT
1	A = 2'-4 5/16"	2'-5 3/16"	2'-6"	2'-6 1/4"	2'-7 3/16"	2'-8 1/16"	2'-7 3/16"	2'-6 1/2"	1'-11 15/16"	1'-3 5/8"	B
	B = 0'-7 3/8"	1'-5 3/16"	2'-0 3/16"	2'-5 1/2"	3'-0 1/16"	3'-2 1/16"	3'-1 3/16"	2'-10"	2'-4 5/8"	1'-8 3/16"	C
	C = 0'-11 3/16"	1'-8 3/16"	2'-4 3/16"	2'-10"	3'-1 5/16"	3'-2 3/16"	3'-0 3/16"	2'-8 3/16"	2'-2 7/8"	1'-5 1/16"	D
	D = 0'-7 5/8"	1'-3 3/16"	1'-11 3/16"	2'-4 7/16"	2'-7 5/16"	2'-7 7/16"	2'-7 5/16"	2'-4 5/8"	2'-5 5/16"	2'-5 1/16"	E = 0'-4 3/4"
2	A = 2'-5 3/16"	2'-6 1/2"	2'-7 1/4"	2'-8 1/4"	2'-8 3/16"	2'-9 1/16"	2'-8 1/2"	2'-5 5/16"	2'-0 3/4"	1'-4 5"	B
	B = 0'-9 3/16"	1'-6 3/4"	2'-3 1/2"	2'-10"	3'-2 1/16"	3'-3 1/16"	3'-2 3/16"	2'-11 1/8"	2'-5 1/16"	1'-9 3/16"	C
	C = 1'-0 3/8"	1'-9 1/4"	2'-5 3/4"	2'-11 1/2"	3'-2 7/16"	3'-3 1/16"	3'-1 3/4"	2'-10"	2'-3 1/2"	1'-6 3/16"	D
	D = 0'-10 9/16"	1'-8 3/4"	2'-4 3/4"	2'-10 5/16"	3'-1 3/16"	3'-1 3/16"	3'-0 1/16"	2'-8 1/16"	2'-2 7/16"	1'-5 1/16"	E = 0'-5 1/16"

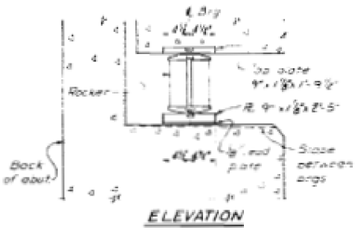
Notes:
1. Ordinates indicate dead load deflection. Contractor shall allow for settlement of forms and shrinkage.
2. Girders "1" and "2" are same in all girders, "1" and "2" respectively by rotation thru 180°.



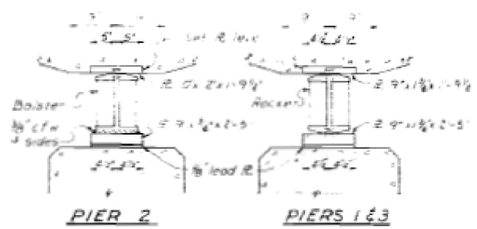
HALF SECTION AT MID SPAN

HALF SECTION AT PIERS

CROSS SECTION

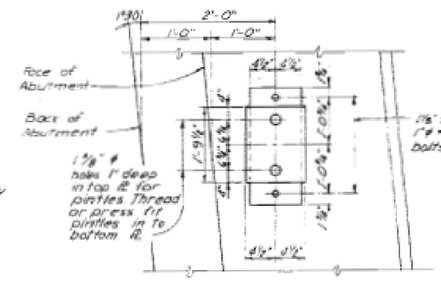


ELEVATION

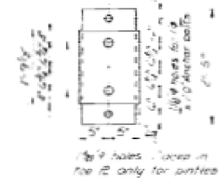


PIER 2

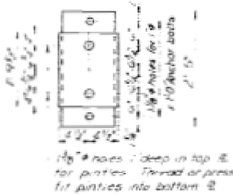
PIERS 1 & 3



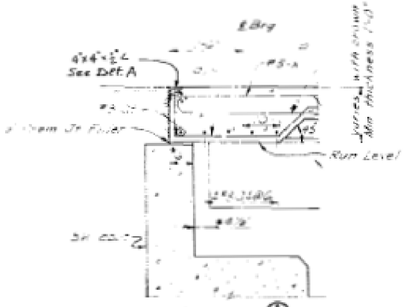
PLAN



PLAN - PLATES

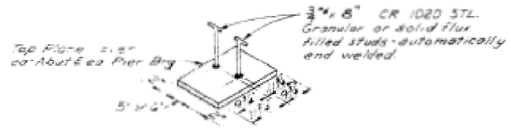


PLAN - PLATES

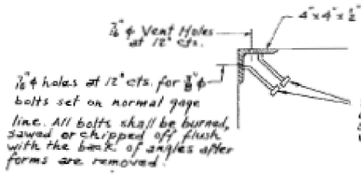


SECTION

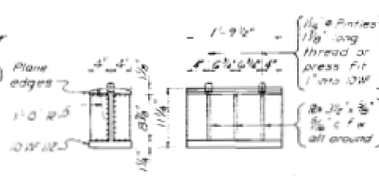
* These dimensions given for 50° temperature. If temperature is above or below 50° or if abutments have moved, make appropriate corrections to give the required dimensions at 50°.



TOP BEARING ℗ ANCHOR DETAIL

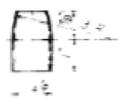


DETAIL A



BOLSTER

ROCKER



PINTLE

BILL OF MATERIAL - SUPERSTRUCTURE

Item	Unit	Quantity
Class A Concrete	Cu. Yds.	368.8
Reinforcement Bars	Lbs.	94,317
Structural Steel	Lbs.	8,934

NOTE:
Aluminum floor drains and aluminum sheets in curb joints are incidental to cost of Class A Concrete.

ILLINOIS DIVISION OF HIGHWAYS

SUPERSTRUCTURE
CROSS SECTION, BEARING DETAILS AND GIRDER ORDINATES
F.A.I. RT 57 SEC. 46-2(1)HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+85.50

DESIGNED
CHECKED
DRAWN
CHECKED

EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

REVISIONS - Added Det. A

USER NAME = nugentaj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

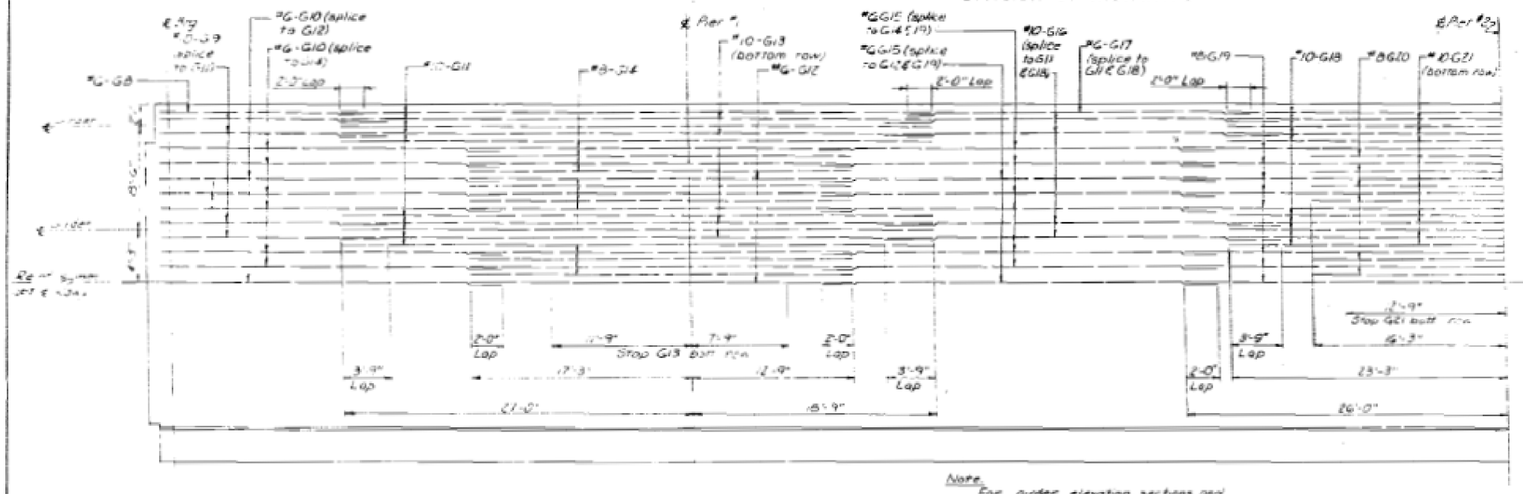
EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

SCALE: | SHEET 3 OF 9 SHEETS | STA. | TO STA.

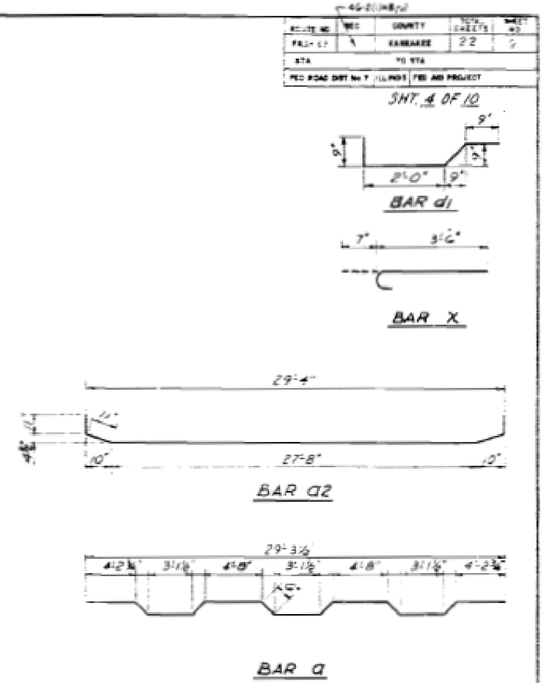
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	73
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

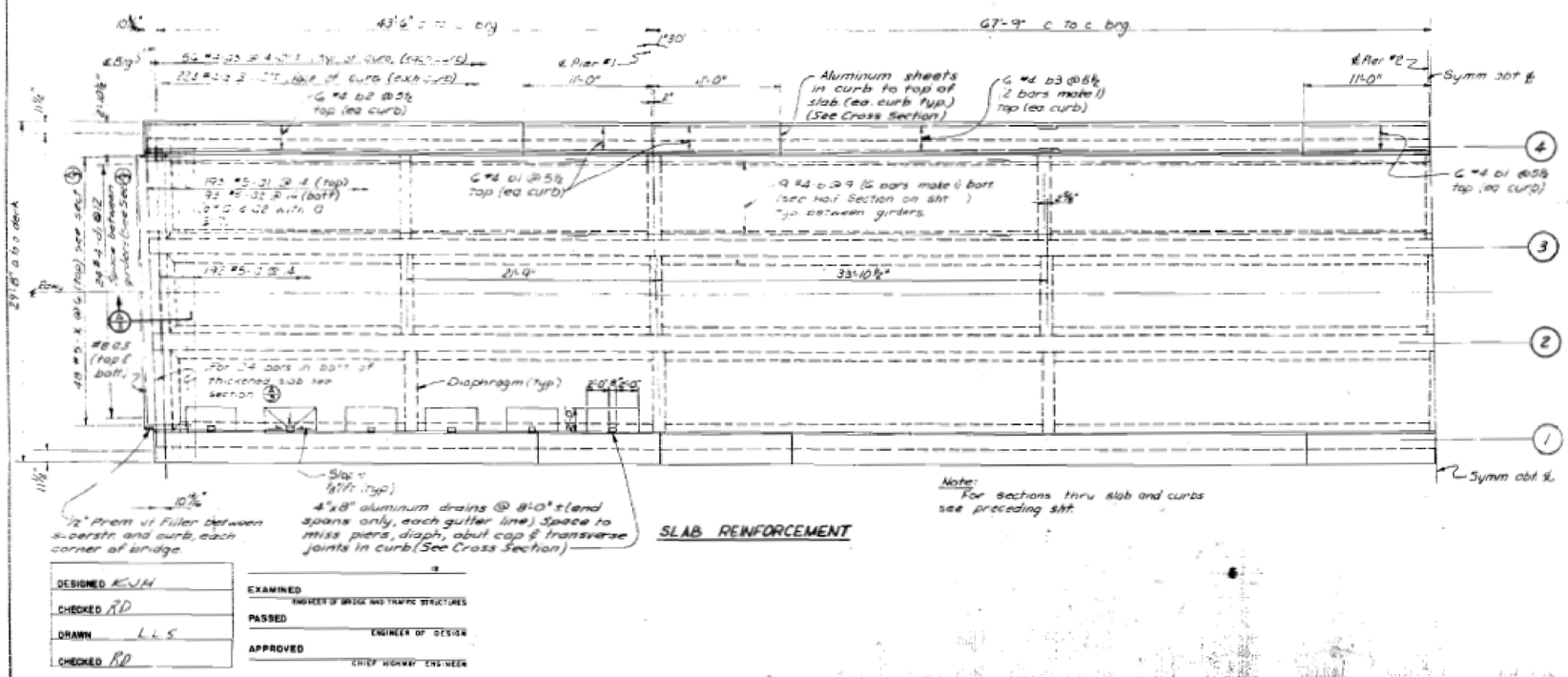
MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWDOT1Documents\IDOT Offices\District 3\Projects\0366961\CADData\CADSheets\0366961-sht-xs4thspstructure.dgn

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



GIRDER REINFORCEMENT IN SLAB





SLAB REINFORCEMENT

BAR LIST - SLAB

Bar	No.	Size	Length	Shape
a	192	#5	30'-2"	
a1	193	#5	29'-2"	
a2	193	#5	31'-2"	
a3	112	#4	7'-6"	
a4	8	#5	26'-0"	
a5	4	#5	23'-9"	
b	174	#4	38'-9"	
b1	72	#4	10'-9"	
b2	24	#4	33'-0"	
b3	48	#4	8'-3"	
d	450	#4	1'-8"	
d1	48	#4	4'-9"	
℄	96	#5	4'-0"	

NOTE: For Bill of Material - Superstructure see preceding sht.

ILLINOIS DIVISION OF HIGHWAYS

SUPERSTRUCTURE
SLAB REINFORCING
F.A.I RT. 57 SEC. 46-2(1)HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+48.50

DESIGNED	K.J.H
CHECKED	R.D
DRAWN	L.L.S
CHECKED	R.D

EXAMINED _____ ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED _____ ENGINEER OF DESIGN
APPROVED _____ CHIEF HIGHWAY ENGINEER

USER NAME = nugentaj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

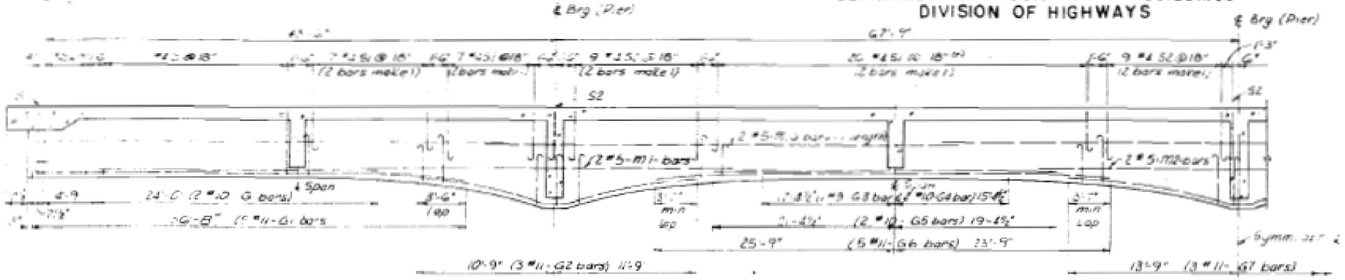
EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

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

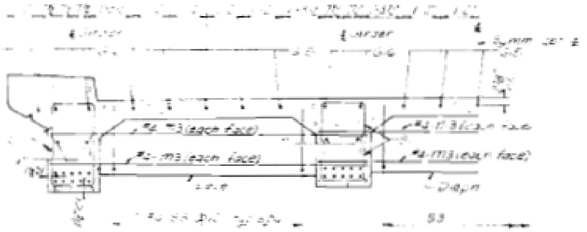
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	74
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT Documents\IDOT Offices\District 3\Projects\D3660161\CADData\CADSheets\D3660161-sht-existingstructure.dgn

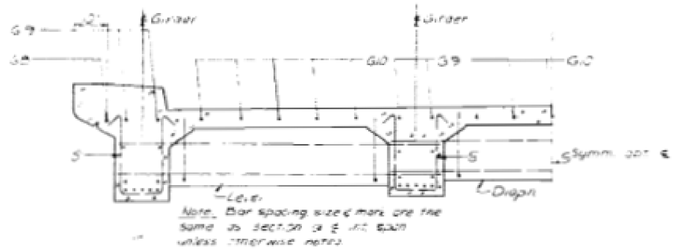
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



HALF ELEVATION OF GIRDERS

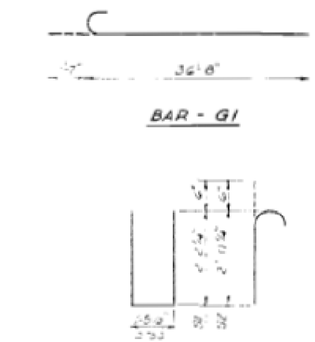


HALF SECTION AT ℄ INT. SPAN



Note: Bar spacing, size & mark are the same as section at ℄ of Int. Span unless otherwise noted.

HALF SECTION AT END SPAN

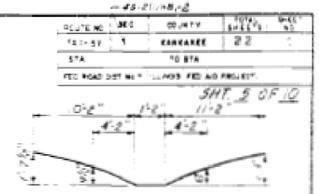


BAR - G1

BAR - S1, S2

BAR - S

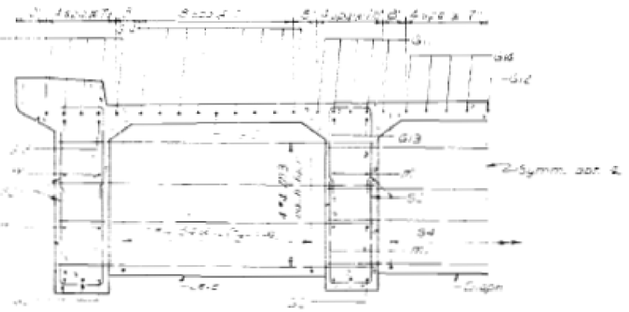
BAR S3, S4



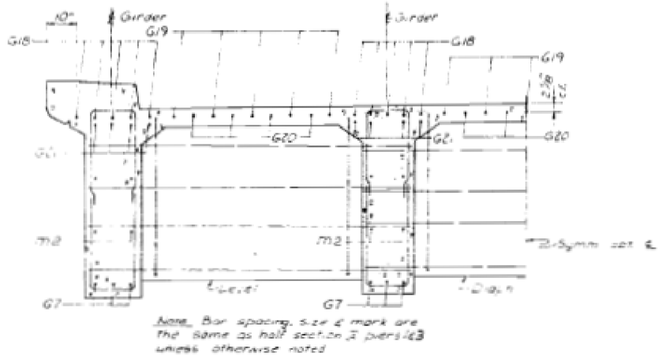
BAR LIST - GIRDERS

Bar	No.	Size	Length	Shape
S	6	#5	42'-0"	
S1	42	#5	38'-9"	
S2	24	#5	23'-9"	
S3	4	#5	32'-0"	
S4	4	#5	32'-9"	
G5	16	#5	4'-3"	
G6	40	#5	69'-2"	
G7	6	#5	27'-9"	
G8	4	#5	9'-3"	
G9	6	#5	21'-0"	
G10	30	#5	29'-0"	
G11	40	#5	45'-9"	
G16	8	#5	30'-0"	
G13	16	#5	9'-6"	
G14	48	#8	80'-10"	
G15	30	#5	33'-0"	
G16	4	#5	33'-3"	
G17	2	#5	29'-9"	
G18	70	#10	56'-6"	
G19	5	#8	50'-0"	
G20	12	#8	82'-6"	
G2	12	#10	25'-6"	
S	52	#4	7'-2"	5'-2"
S	328	#4	6'-10"	2'-10"
S1	432	#4	8'-4"	4'-4"
S3	34	#4	6'-7"	3'-7"
S4	22	#4	7'-1"	4'-1"
T	48	#5	39'-3"	
m	4	#5	30'-0"	
m2	8	#5	31'-6"	
m3	20	#4	9'-6"	

NOTE: For Bill of Material - Superstructure see sheet 9.

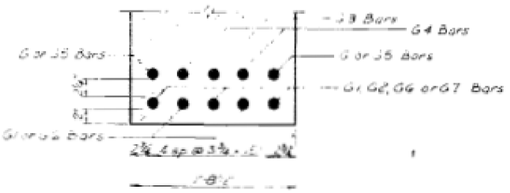


HALF SECTION AT PIERS 1 & 3

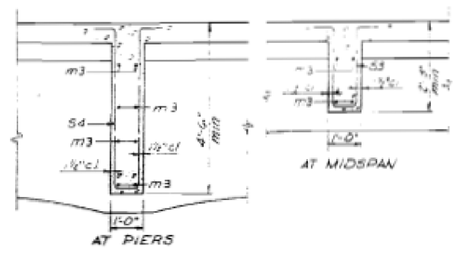


Note: Bar spacing, size & mark are the same as half section at piers 1 & 3 unless otherwise noted

HALF SECTION AT PIER 2



GIRDER DETAIL



SECTIONS THRU DIAPHRAGMS

DESIGNED K.U.H
CHECKED P.D.
DRAWN L.L.S.
CHECKED R.D.

EXAMINED
ENGINEER OF BRIDGE AND MISCELLANEOUS STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

ILLINOIS DIVISION OF HIGHWAYS

SUPERSTRUCTURE
GIRDER DETAILS

F.A.I. RT. 57 SEC. 46- 2(1)HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+45.50

USER NAME = nugentaj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

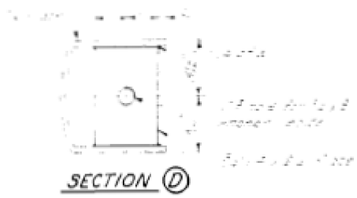
EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

SCALE: | SHEET 5 OF 9 SHEETS | STA. | TO STA.

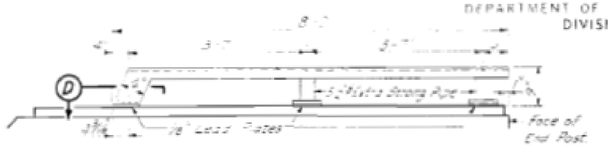
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	75
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\planroom.dot.illinois.gov:PWDOTDocuments\DOT Offices\District 3\Project\d0366961\CADData\CADSheets\D366961-sht-existingstructure.dgn

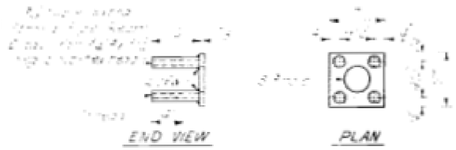
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



SECTION (D)

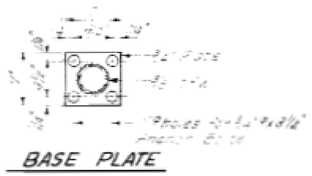


END POST PANEL



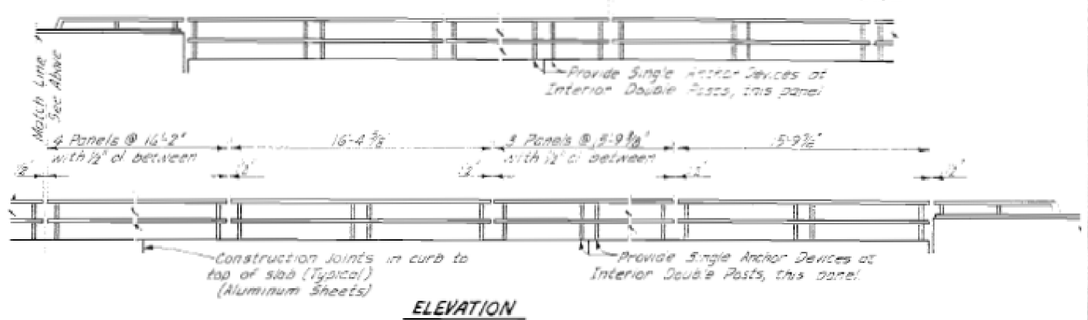
END VIEW PLAN

ANCHOR DEVICE
2 Reqd. Per Panel

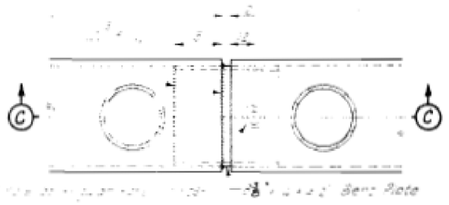


BASE PLATE

END POST PANEL DETAILS

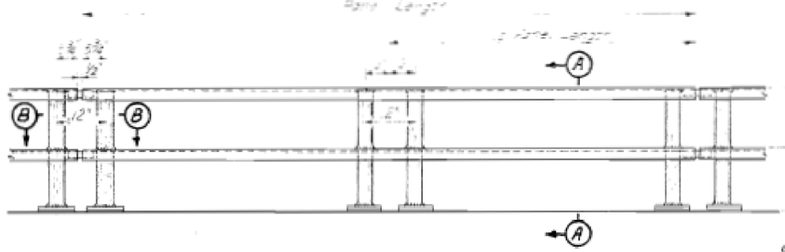


ELEVATION
North Rails - West to East
South Rails - East to West
Note: For location of Construction Joints see superstructure slab plan sheet

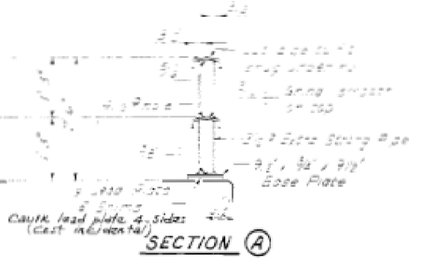


SECTION (B)

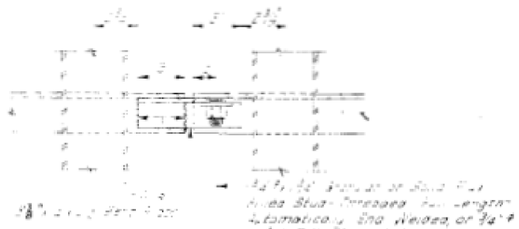
DETAIL OF 1/4" BENT PLATE



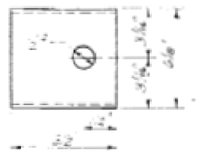
ELEVATION TYPICAL PANEL



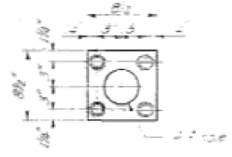
SECTION (A)



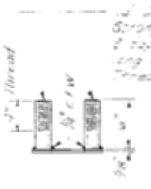
SECTION (C)



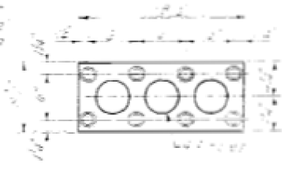
PLAN
Bent Plate to be used at regular panel joints



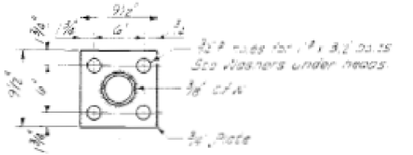
ANCHOR DEVICE
For Single Post at Each End of Panel



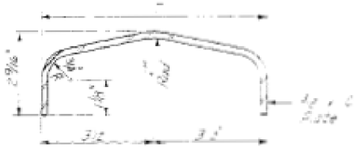
END VIEW



ANCHOR DEVICE
For Double Posts within Each Panel.



BASE PLATE
ALL POSTS



DETAIL OF RAIL

GENERAL NOTES

BILL OF MATERIAL

Item	Unit	Quantity
Metal Handrail	L.F.	68

ILLINOIS DIVISION OF HIGHWAYS

METAL HANDRAIL

F.A.I. RTE. 57 SEC. 46-2(1)HB-2

KANKAKEE COUNTY

STA. 367+45.50

DRAWING WRT
CHECKED LJL
DESIGNED LS
QUANTITIES WRT
EXAMINED
PASSED
APPROVED

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

SCALE: | SHEET 6 OF 9 SHEETS | STA. | TO STA.

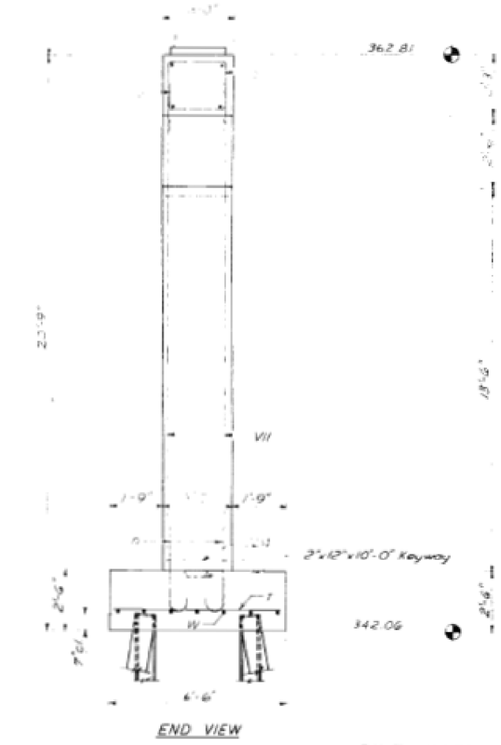
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	76
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

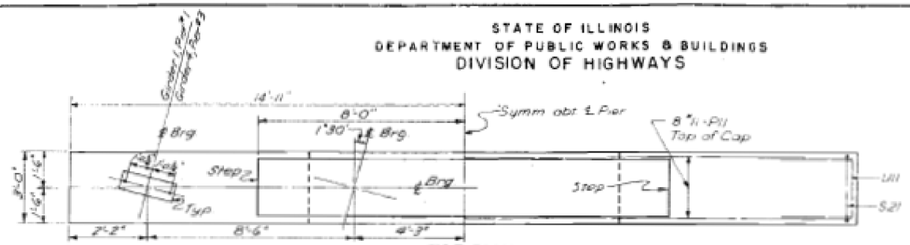
ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
F.A.I. 57	1	KANKAKEE	22	12
STA		TO STA		
FED ROAD DIST NO 7	ILLINOIS	FED. AID PROJECT		

SHT 7 OF 10

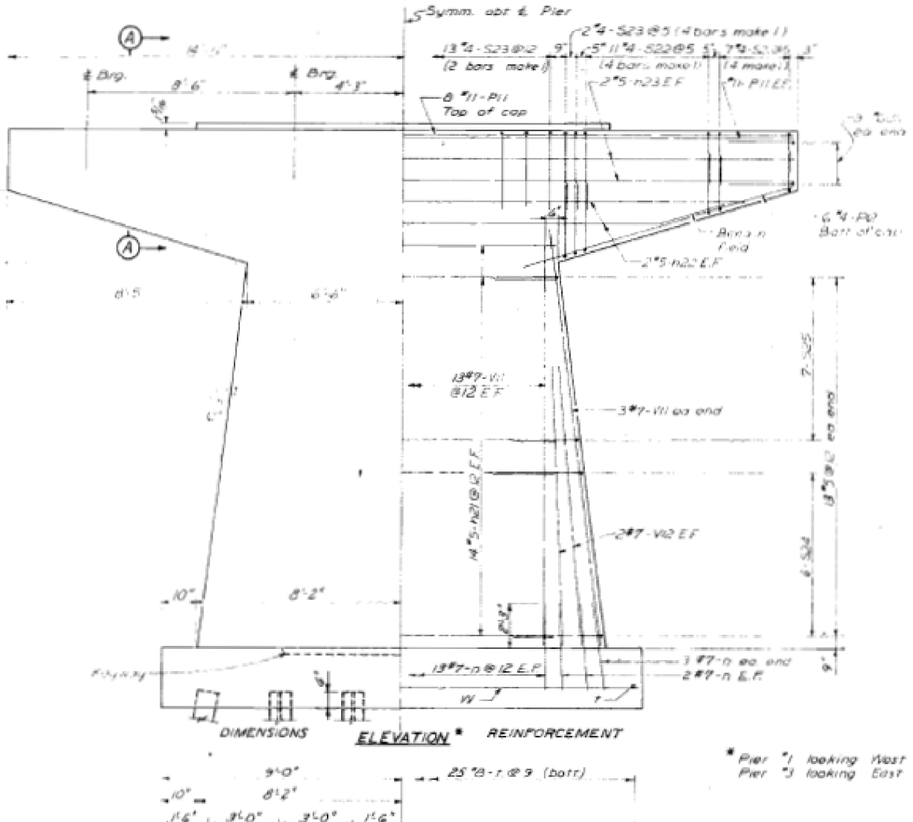
Pier #1 Sta 1366+85.40
Pier #3 Sta 1368+20.90
Crown Elev. 369.02



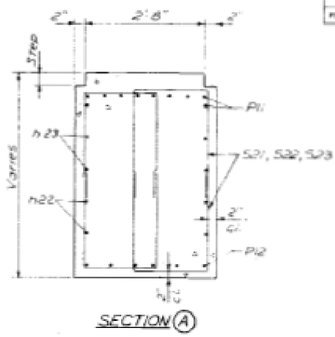
END VIEW



TOP PLAN

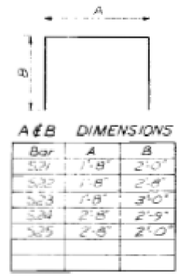


DIMENSIONS ELEVATION * REINFORCEMENT



SECTION (A)

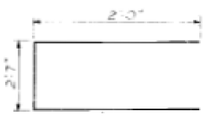
Note: All edges shall have standard ¾" chamfers except as noted.



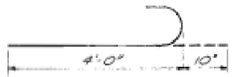
A & B DIMENSIONS

Bar	A	B
S21	1'-8"	2'-0"
S22	1'-8"	2'-9"
S23	1'-8"	3'-10"
S24	2'-8"	2'-9"
S25	2'-8"	2'-0"

S BARS



UII BAR

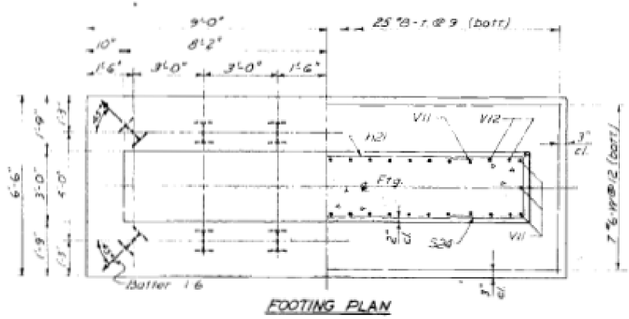


n BAR

* Pier #1 looking West
Pier #3 looking East

PILE DATA

Type - 10 BP 42
Capacity - 35 tons
Est length -
Pier #1 - 15'
Pier #3 - 18'
No. reqd - 24 (2 piers)



FOOTING PLAN

PIERS 1 & 3
BILL OF MATERIAL

Bar	No	Size	Length	Shape
n21	56	#5	12'10"	—
n22	8	#5	26'0"	—
n23	8	#5	29'6"	—
n	80	#7	4'10"	⌐
PI	20	#	29'6"	—
PI2	24	#5	10'0"	—
S21	112	#4	5'8"	⊏
S22	176	#4	7'0"	⊏
S23	84	#4	7'8"	⊏
S24	64	#5	6'-2"	⊏
S25	28	#5	6'-9"	⊏
*	50	#8	6'0"	—
UII	12	#5	6'7"	⊏
PII	64	#7	15'6"	—
VII2	16	#	8'3"	—
VII	14	#6	19'6"	—

Class A Concrete	Cu. Yds	92.8
Reinforcement Bars	Lbs	11,391
Steel Piles (10BP42)	Lin. Ft	396
Name Plates	Each	2
Cl A Excav. for Struct	Cu. Yds.	58

DESIGNED AEJAN
CHECKED KD
DRAWN BPP LCH
CHECKED RD

EXAMINED
ENGINEER OF BRIDGE AND TRAFFIC DIRECT ADS
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

ILLINOIS DIVISION OF HIGHWAYS

PIERS NO. 1 & 3
(EXPANSION)
F.A.I. RT 57 SEC. 46-2(1)HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+45.50

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	DRAWN -	REVISED -	
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PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

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

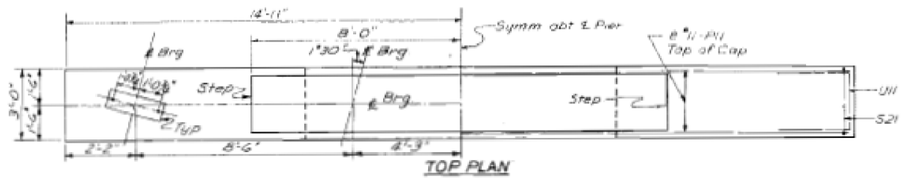
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	77
		CONTRACT NO. 66961		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

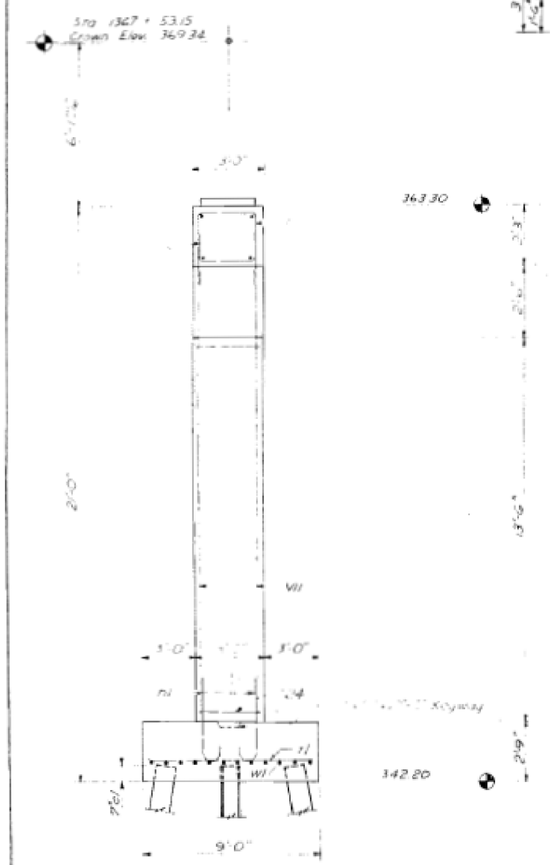
46-2(1)HB-2

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	4	KANKAKEE	87	78
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

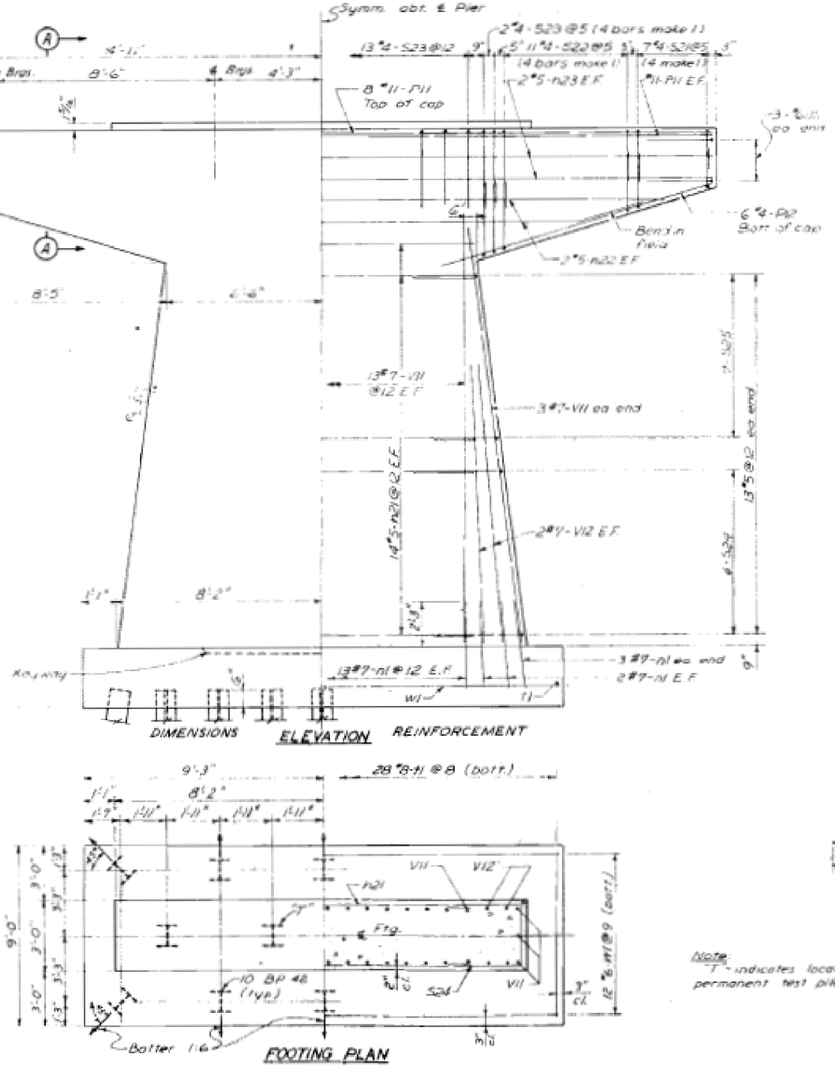
SHT 8 OF 10



TOP PLAN

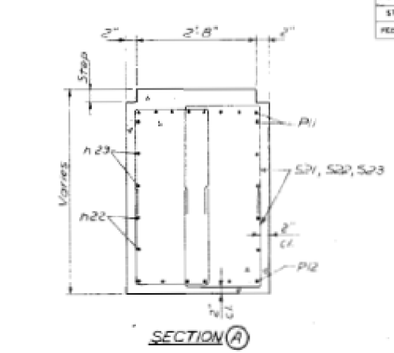


END VIEW



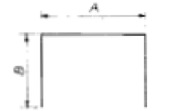
DIMENSIONS ELEVATION REINFORCEMENT

FOOTING PLAN



SECTION (A)

Note: All edges shall have standard ¾" chamfers except footings



A & B DIMENSIONS

Bar	A	B
S21	1'-8"	2'-0"
S22	1'-8"	2'-5"
S23	1'-8"	3'-0"
S24	2'-8"	2'-9"
S25	2'-8"	2'-0"

S BARS

U11 BAR

n1 BAR

PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h21	28	#5	12'-10"	—
h22	4	#5	26'-0"	—
h23	4	#5	29'-6"	—
n1	40	#9	5'-1"	—
P11	10	"	29'-6"	—
P12	12	"	10'-0"	—
S21	56	#4	5'-8"	□
S22	88	#4	7'-0"	□
S23	42	#4	7'-8"	□
S24	12	#5	8'-2"	□
S25	14	#5	5'-8"	□
t1	28	#8	8'-6"	—
U11	6	#6	6'-7"	⊏
V11	32	#11	13'-4"	—
V12	8	#7	8'-3"	—
W1	12	#6	48'-0"	—
Class X Concrete		Cu. Yds.	52.5	
Reinforcement Bars		Lbs.	5,822	
Steel Piles (HP14x73)		Lin. Ft.	195	
Test Pile (Steel)		Each	1	
C.I.A. Excav. for Struct.		Cu. Yds.	34	

PILE DATA
Type - 10 BP 42
Capacity - 35 Tons
Est. length - 13'
No. req'd - 14
(includes 1 test pile)

Note: "T" indicates location of permanent test pile

DESIGNED A.J.H.
CHECKED K.D.
DRAWN B.P.P. L.C.H.
CHECKED K.D.

EXAMINED _____
Examiner of Bridge and Traffic Structures
PASSED _____
Engineer of Design
APPROVED _____
Chief Highway Engineer

ILLINOIS DIVISION OF HIGHWAYS
PIER NO. 2
(FIXED)
F.A.I. RT. 57 SEC. 46-2(1)HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+45.50

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	DRAWN -	REVISED -	
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PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

SCALE: | SHEET 8 OF 9 SHEETS | STA. | TO STA.

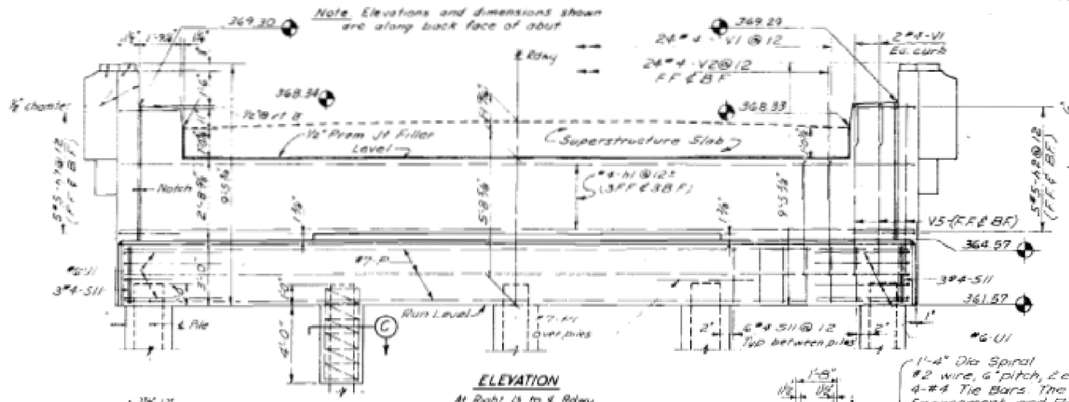
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	78
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAI - 57	4	KANKAKEE	22	14
STA.		TO STA.		
FED. ROAD DIST. No. 7	ILLINOIS	FED. AID PROJECT		

SHT 9 OF 10

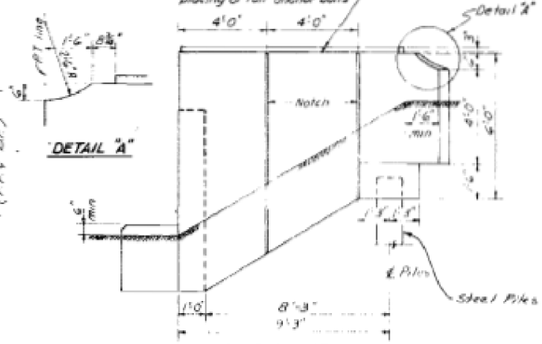
Note: Elevations and dimensions shown are along back face of abut



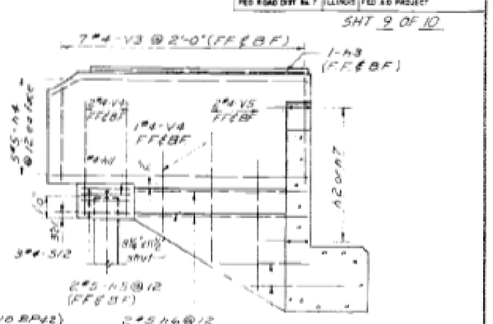
ELEVATION
At Right ∅ to ℄ Rdwy

East Abutment Looking East
West Abutment Looking West

PILE DATA
Type: 10 BP42
Capacity: 35 Tons
Under Abutments: Est. Length: West 31 Ft., East 34 Ft. / No. Req'd: 10 (2 Abuts., includes 2 test piles)
Under Wing Walls: Est. Length: West 33 Ft., East 36 Ft. / No. Req'd: 4 (1 for each wing wall)



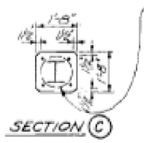
SIDE ELEVATION



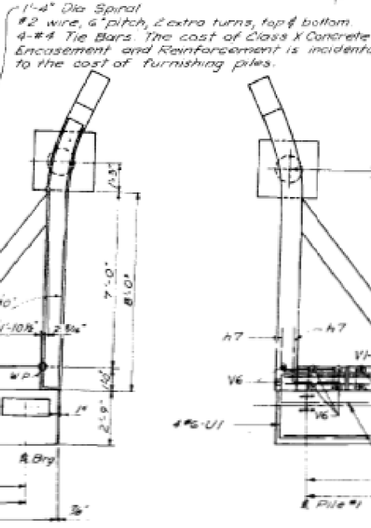
INSIDE ELEVATION OF BRACKET

DETAIL "A"

1'-4" Dia Spiral #2 wire, 6" pitch, 2 extra turns, top & bottom
4-#4 Tie Bars. The cost of Class X Concrete Encasement and Reinforcement is incidental to the cost of furnishing piles.



PLAN OF ABUTMENT
DIMENSIONS



PLAN OF ABUTMENT
REINFORCEMENT & PILE SPACING

Note: "T" indicates location of permanent test pile. (see chart)

NOTCH DETAIL

SECTION Ⓑ

BARS S11, S12, S13

BAR h2

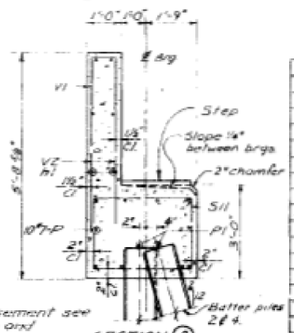
BAR V1

BAR h10

BARS h3, h4

BAR h7

BAR U1



Note: For pile encasement see above Elevation and Section Ⓒ

BAR LIST - TWO ABUTMENTS

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
h1	12	#4	29'-3"		S11	40	#4	13'-0"	
h2	20	#5	4'-4"		S12	12	#4	9'-6"	
h3	8	#5	10'-8"		S13	20	#3	3'-1"	
h4	40	#5	12'-8"						
h5	16	#5	7'-0"						
h6	16	#5	5'-6"		U1	16	#6	11'-5"	
h7	20	#5	4'-4"						
h8	8	#6	10'-6"						
h9	8	#6	9'-6"		V1	56	#4	3'-9"	
h10	16	#6	4'-0"		V2	96	#4	4'-0"	
h11	8	#4	3'-0"		V3	56	#4	3'-9"	
					V4	24	#4	3'-6"	
P1	20	#7	29'-3"		V5	16	#4	5'-6"	
P1	10	#7	4'-0"		V6	24	#4	5'-0"	

BILL OF MATERIAL - TWO ABUTMENTS

Item	Unit	Quantity
Class X Concrete	Cu Yds	446
Reinforcement Bars	Lbs	41,529
Steel Piles (10 BP42)	Lin Ft	398
Test Piles (Steel)	Each	2

ILLINOIS DIVISION OF HIGHWAYS

ABUTMENTS

F.A.I. RT. 57 SEC. 46-2 (I) HB-2
KANKAKEE COUNTY
STRUCTURE NO. 8
STATION 367+45.50

DESIGNED	K.J.H.
CHECKED	R.D.
DRAWN	L.S.
CHECKED	R.D.

EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC ENGINEERING
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

REVISIONS: Substituted Steel Piles for cracked piles under wing walls, changed quantities (246 Ft. (Steel Piles) 4 Ft. (Test Piles) to 398 Ft. (Steel) 2 (Steel) 8-16-63

USER NAME = nugentaj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/15/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE (SN 046-0087)
FOR INFORMATION ONLY

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2 (1) HBR-2	KANKAKEE	87	79
		CONTRACT NO. 66961		
	ILLINOIS	FED. AID PROJECT		

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	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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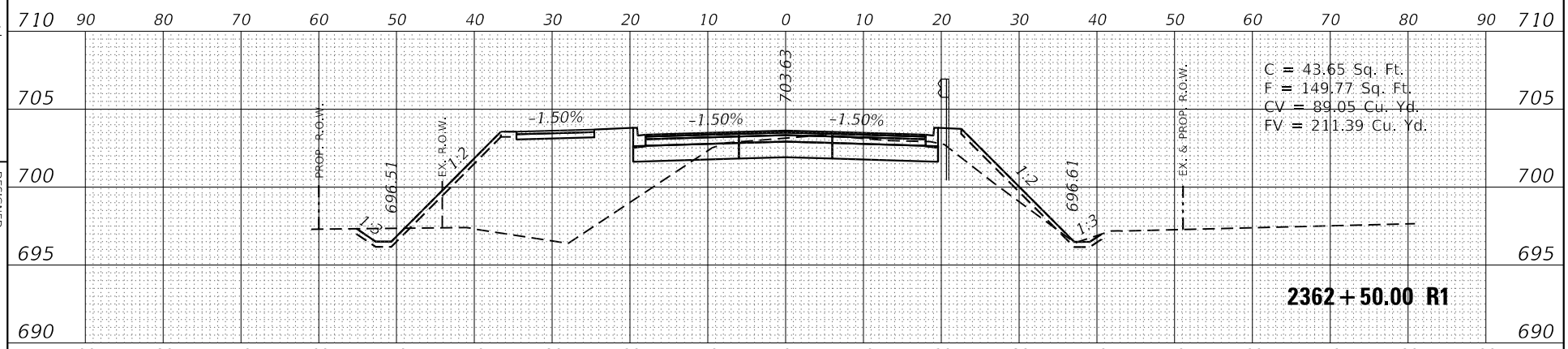
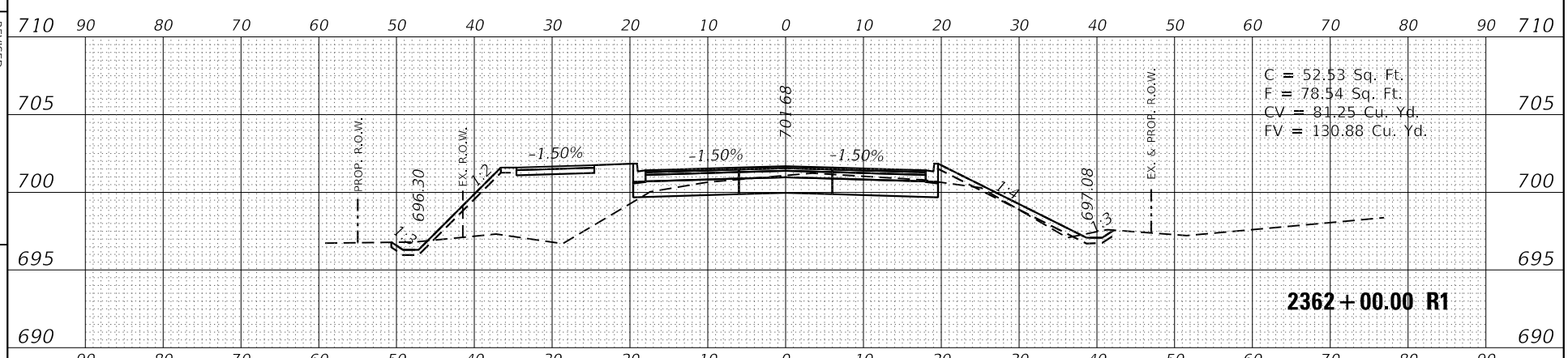
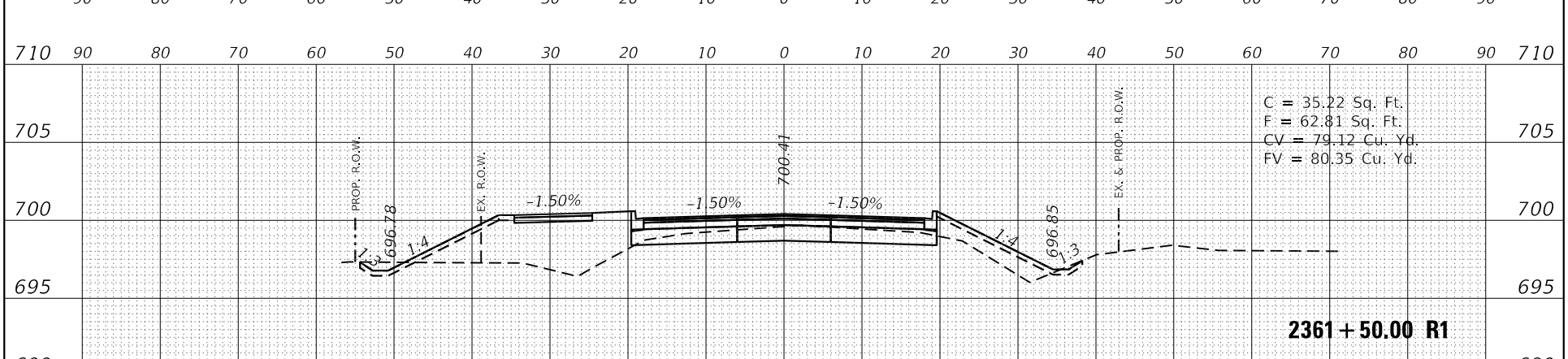
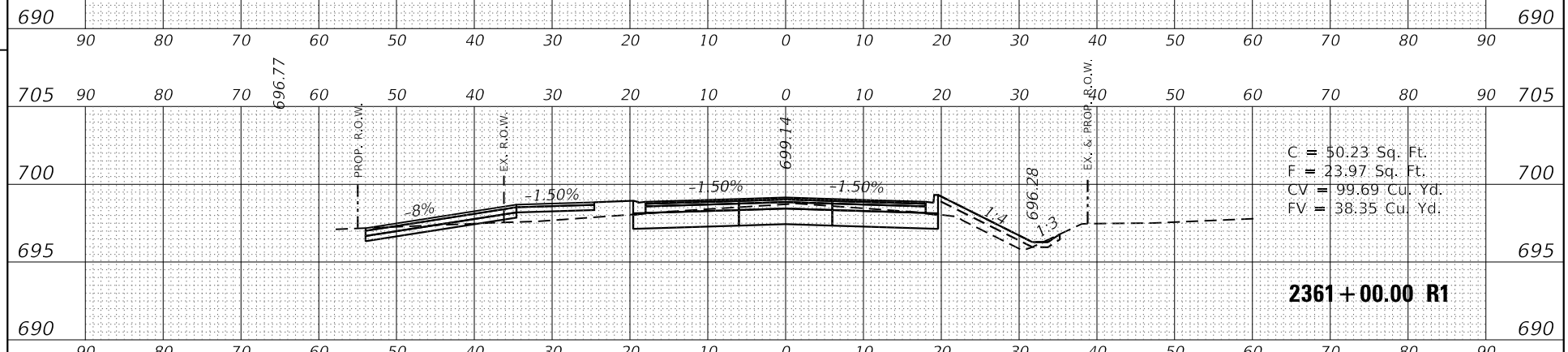
DESIGNED -
DRAWN -
CHECKED -
DATE -

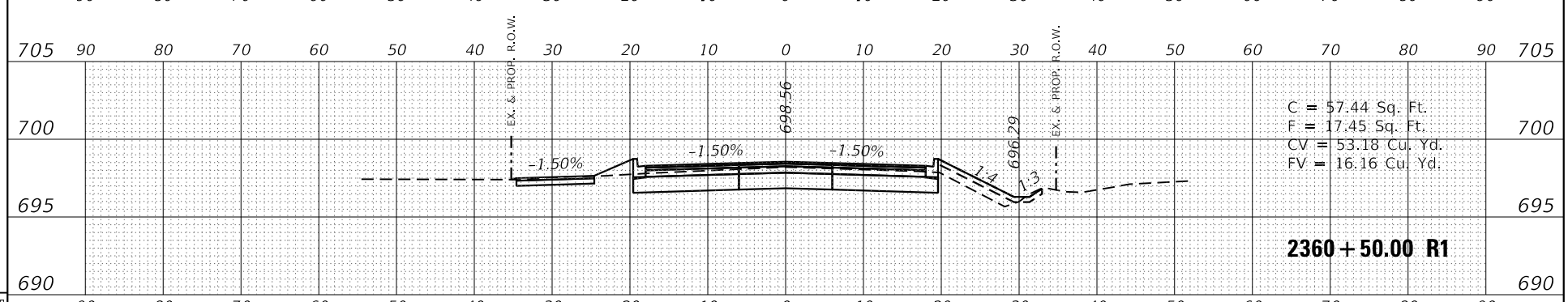
REVISED -
REVISED -
REVISED -

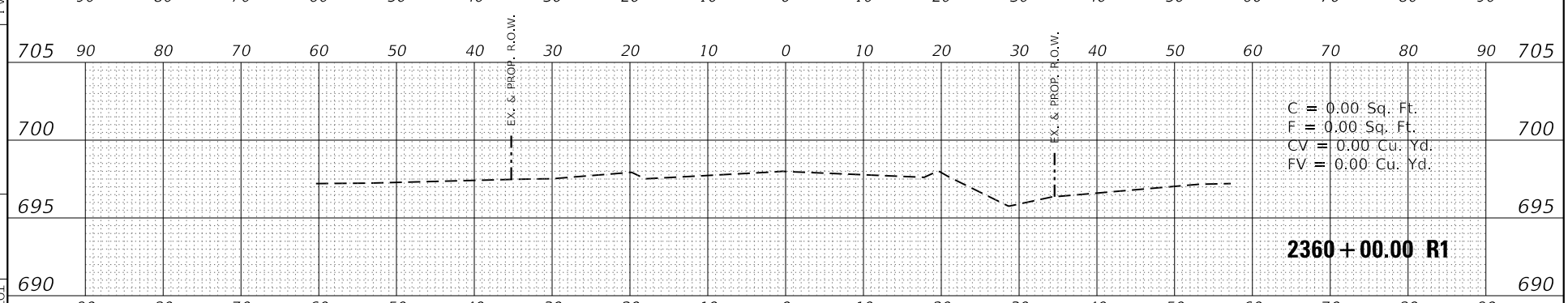












STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

STA. 2360+00.00 R1 TO STA. 2362+50.00 R1

SCALE:

SHEET 1 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	80

ILLINOIS FED. AID PROJECT

CONTRACT NO. 66961

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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USER NAME = nugentaj
PLOT SCALE = 100.0059 ' / In.
PLOT DATE = 8/15/2019

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE:

SHEET 2 OF 8 SHEETS STA. 2363+00.00 R1 TO STA. 2364+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	81

CONTRACT NO. 66961
ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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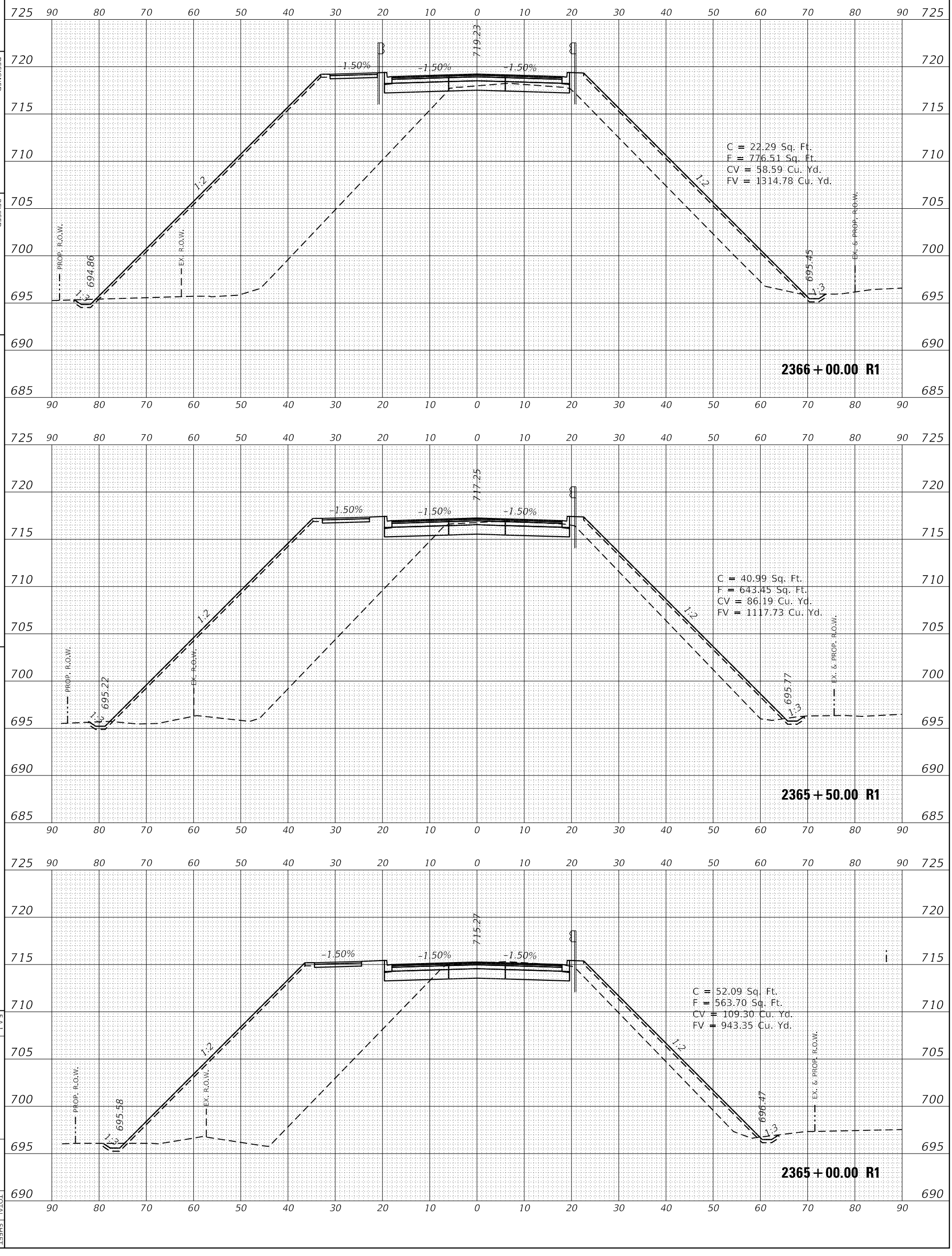

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE:

SHEET 3 OF 8 SHEETS

STA. 2365+00.00 R1 TO STA. 2366+00.00 R1

ILLINOIS FED. AID PROJECT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	82

CONTRACT NO. 66961

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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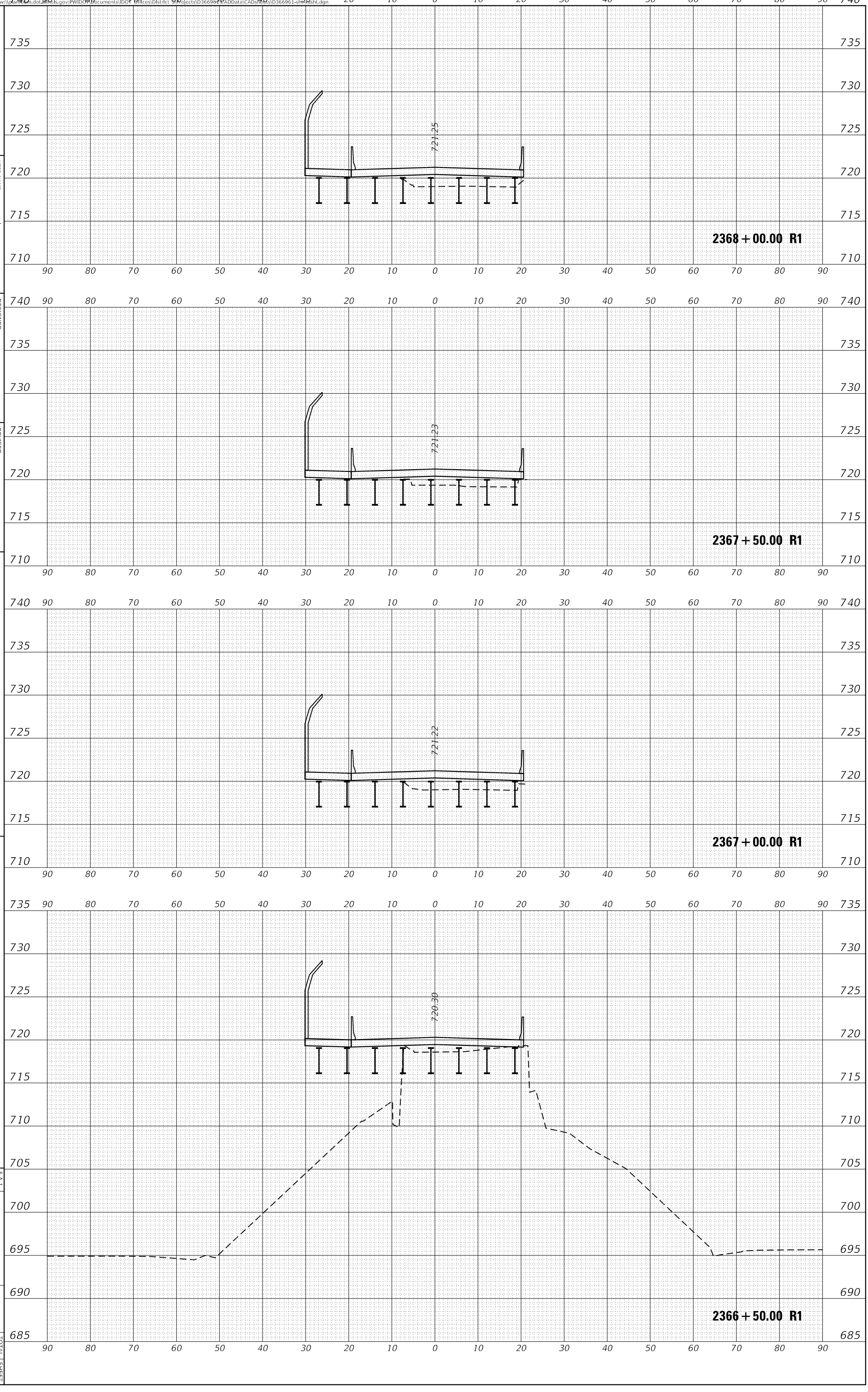

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PLOT SCALE = 100.0059 ' / in.
PLOT DATE = 8/15/2019

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE:

SHEET 4 OF 8 SHEETS STA. 2366+50.00 R1 TO STA. 2368+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	83

ILLINOIS FED. AID PROJECT

CONTRACT NO. 66961

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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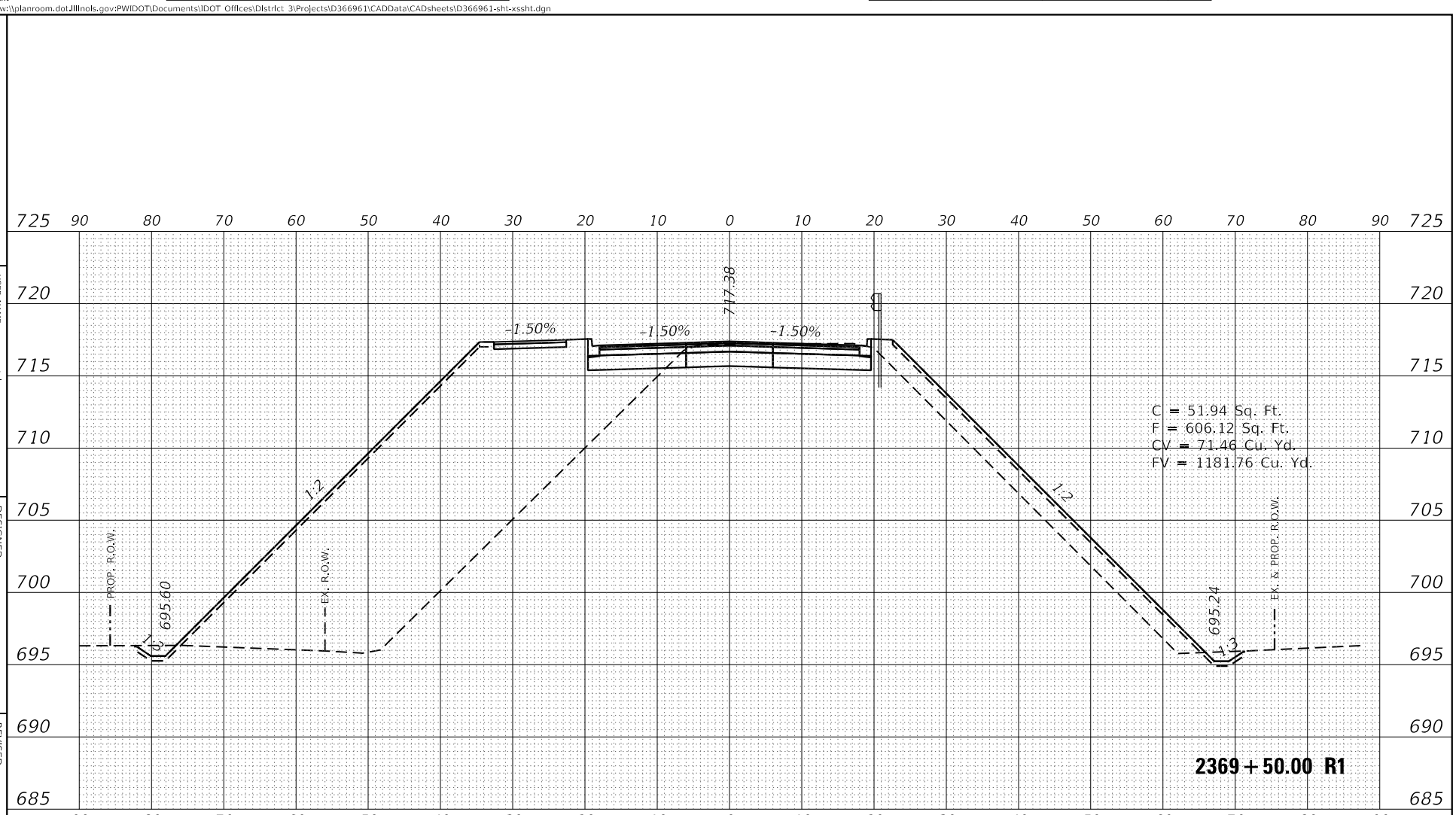

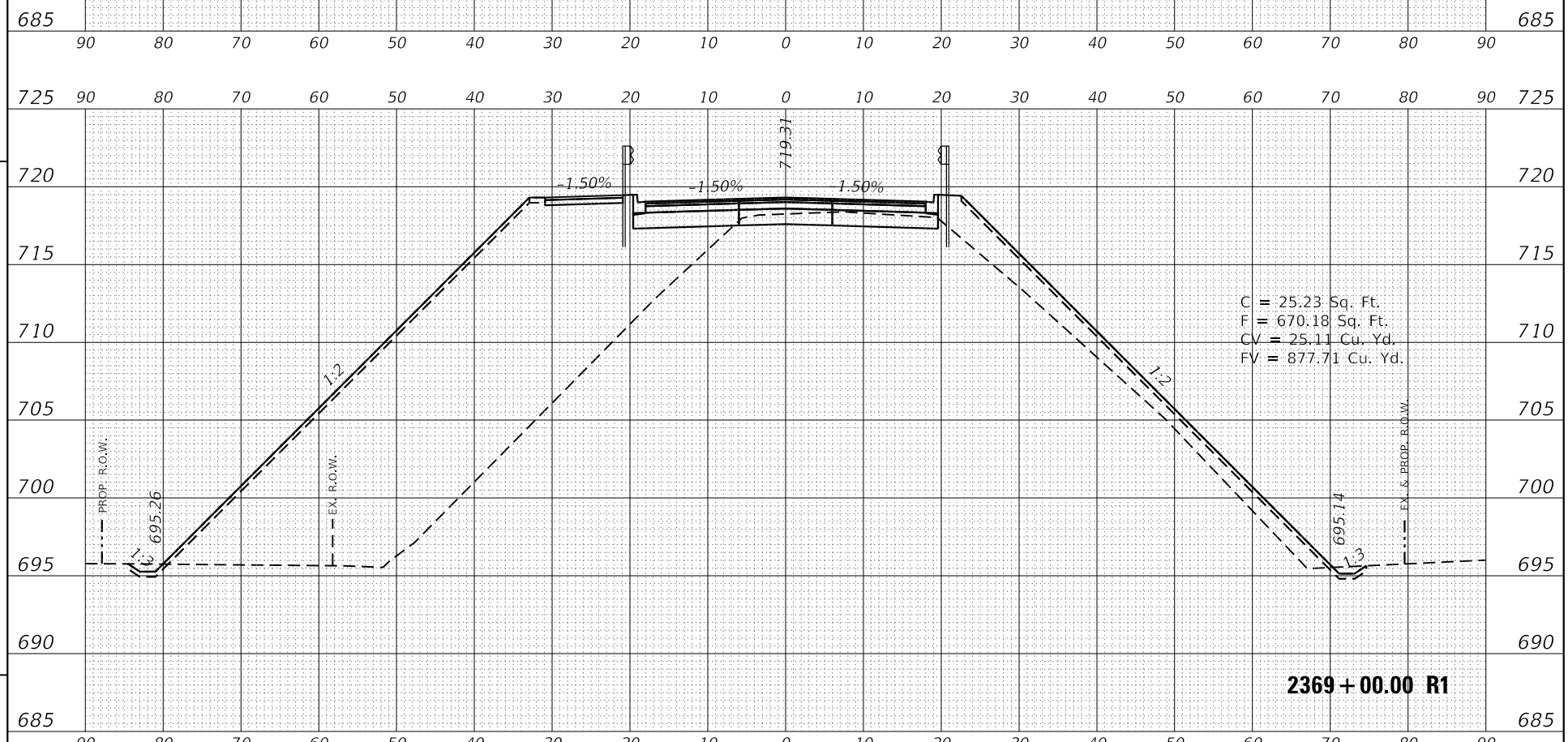

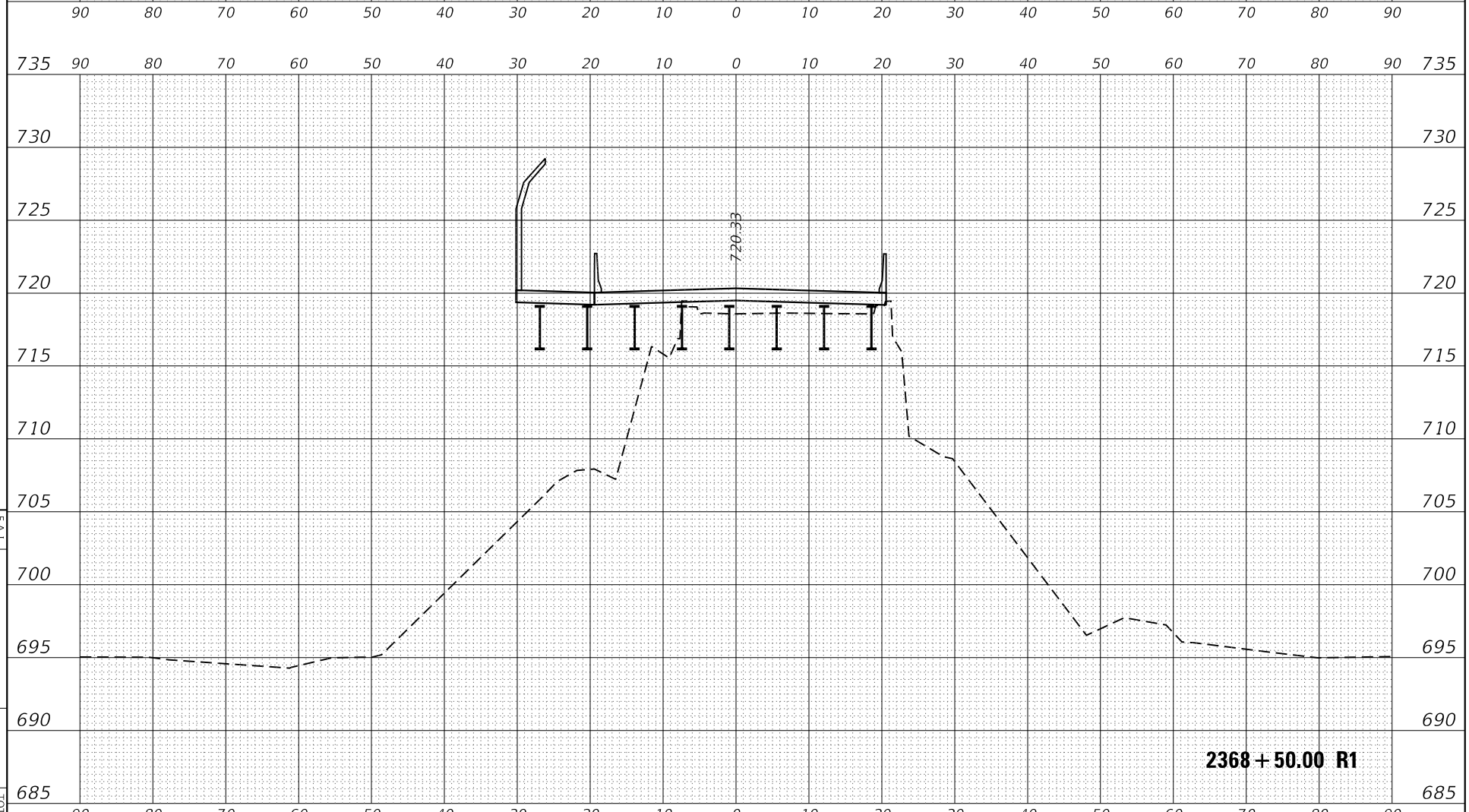

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PLOT SCALE = 100.0059 ' / in.
PLOT DATE = 8/15/2019

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SHEET 5 OF 8 SHEETS STA. 2368+50.00 R1 TO STA. 2369+50.00 R1

CROSS SECTIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	84

ILLINOIS FED. AID PROJECT

CONTRACT NO. 66961

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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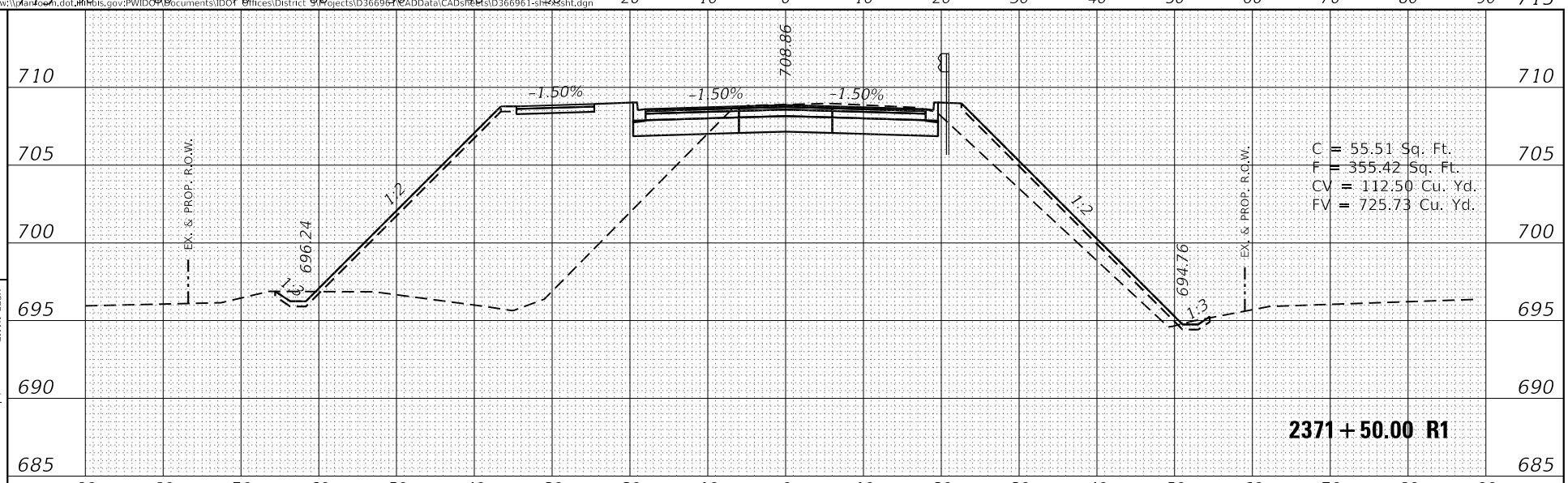

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PLOT DATE = 8/15/2019

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DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE:
SHEET 6 OF 8 SHEETS STA. 2370+00.00 R1 TO STA. 2371+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	85

ILLINOIS FED. AID PROJECT
CONTRACT NO. 66961

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
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NO.	TEMPLATE		
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PLOT DATE = 8/15/2019

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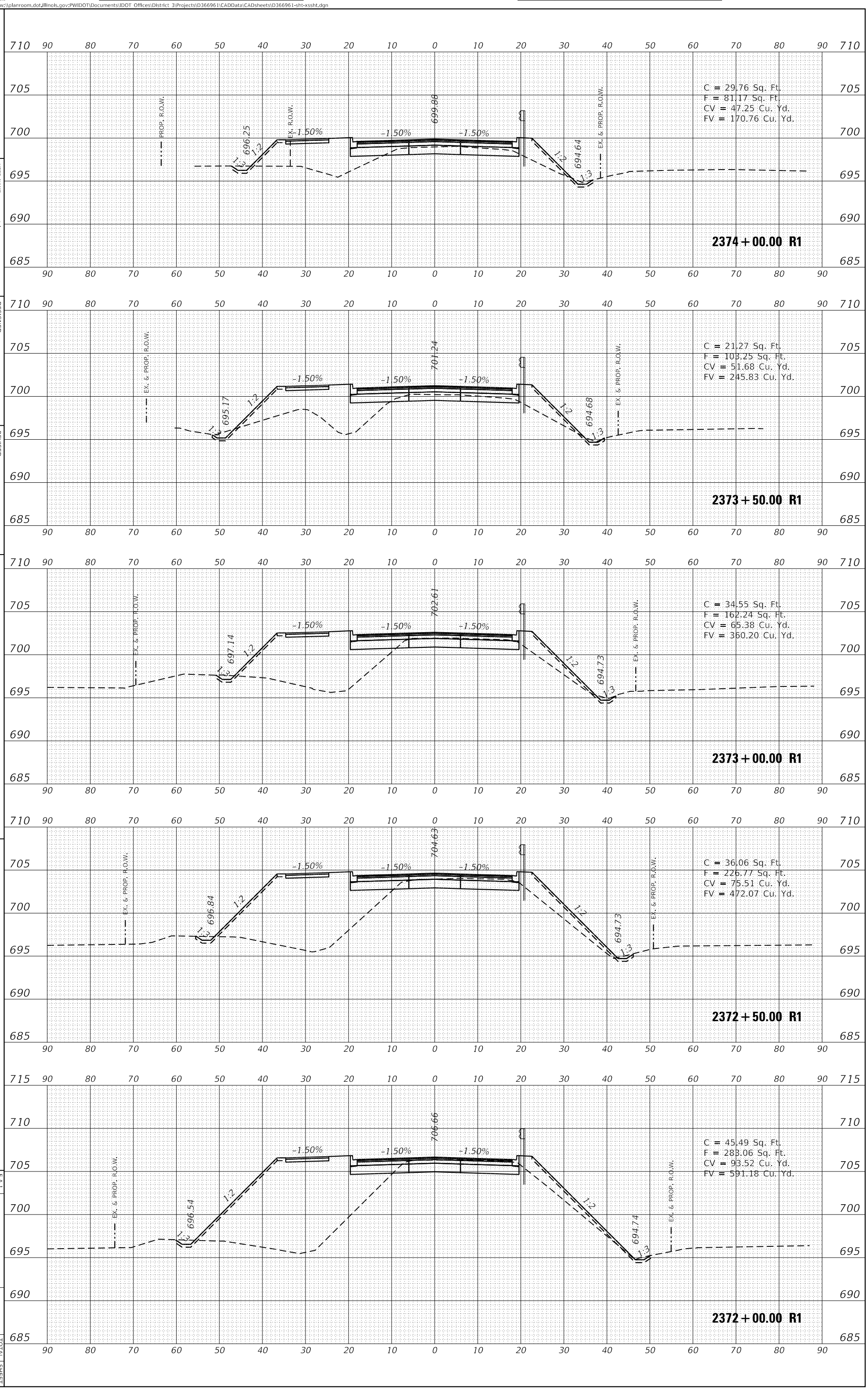
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE:

SHEET 7 OF 8 SHEETS

STA. 2372+00.00 R1 TO STA. 2374+00.00 R1



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	86

ILLINOIS FED. AID PROJECT

CONTRACT NO. 66961

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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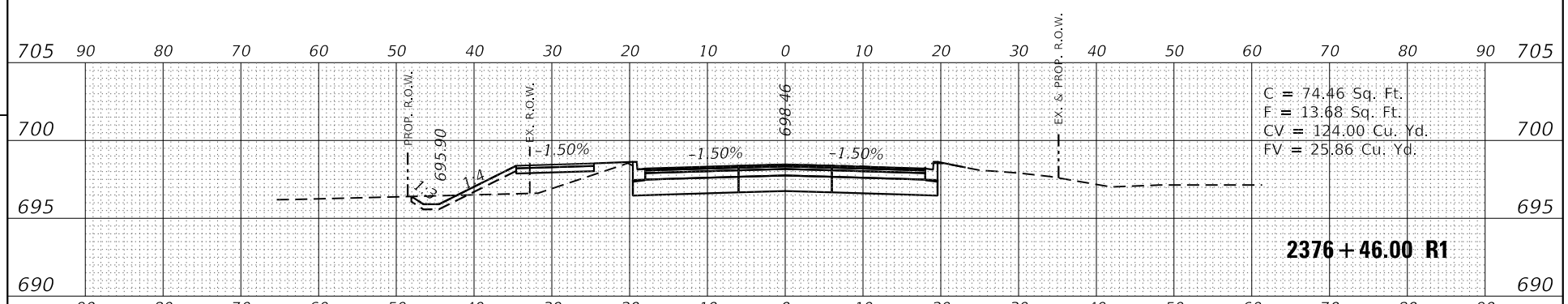
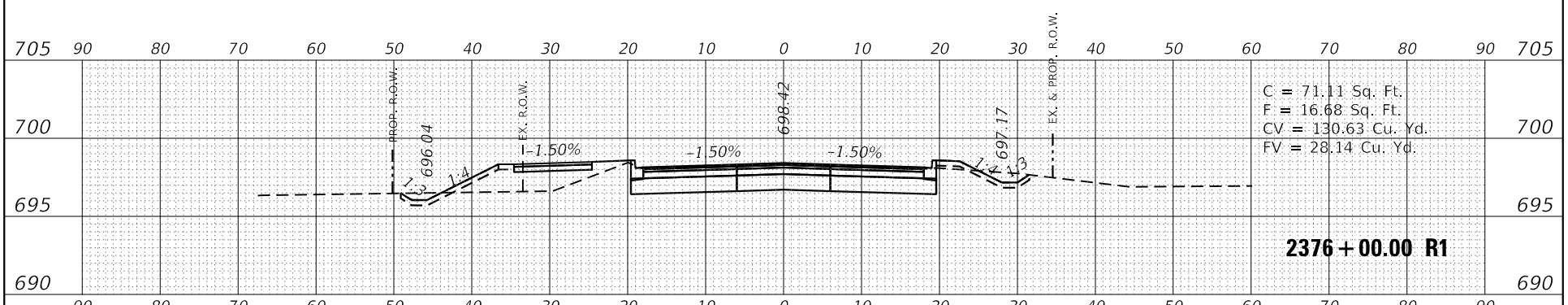
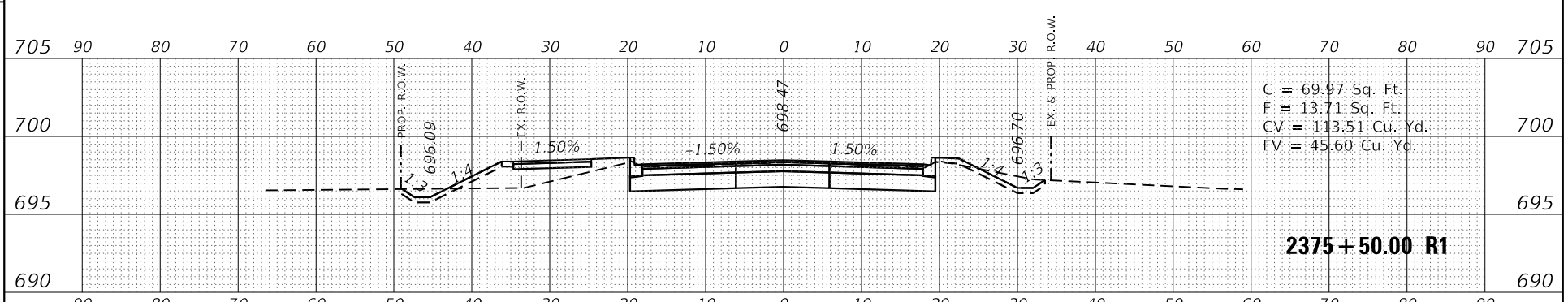
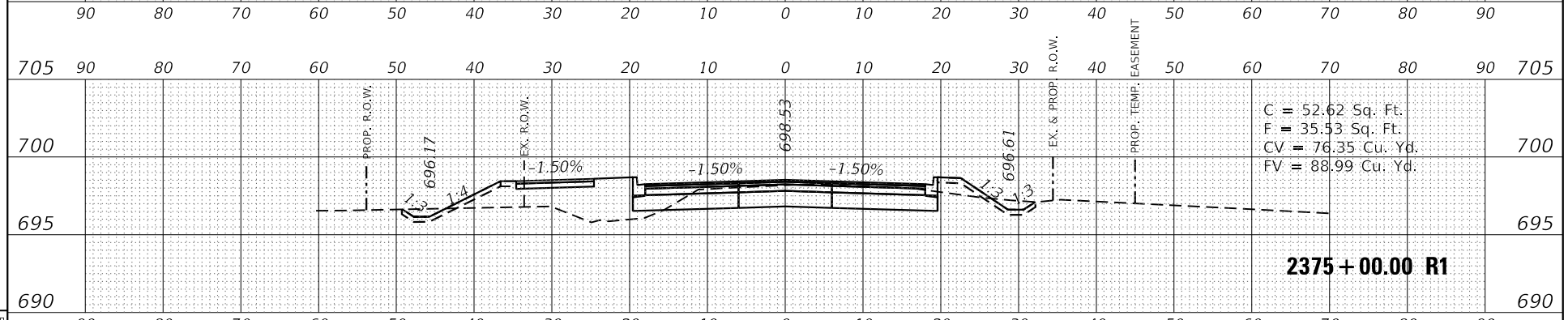
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

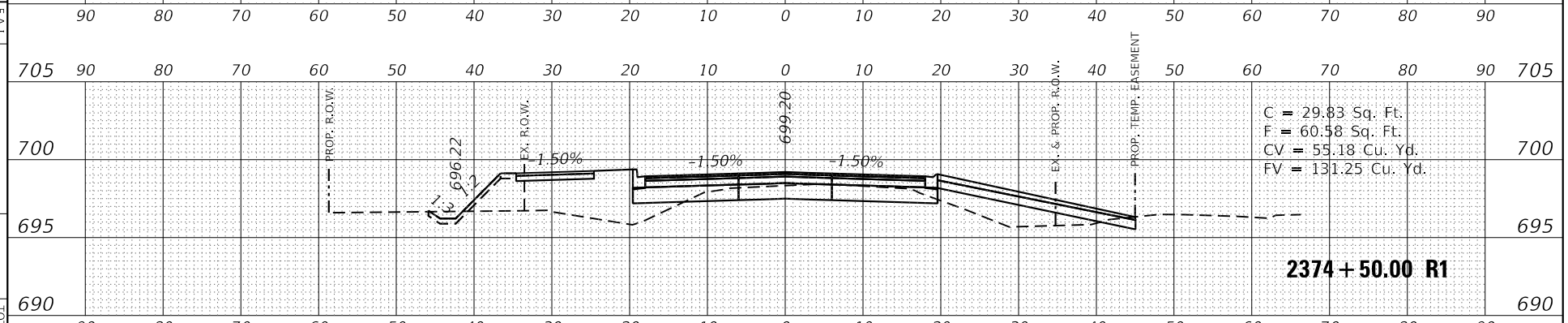
CROSS SECTIONS











SCALE:

SHEET 8 OF 8 SHEETS STA. 2374+50.00 R1 TO STA. 2376+46.00 R1

ILLINOIS FED. AID PROJECT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	46-2(1)HBR-2	KANKAKEE	87	87

CONTRACT NO. 66961