06-12-2015 LETTING ITEM 129

INDEX OF SHEETS

- 1 COVER SHEET, INDEX OF SHEETS
- 2 GENERAL NOTES, HIGHWAY STANDARDS
- 3 SUMMARY OF QUANTITIES
 - 4 TYPICAL ROADWAY SECTION
 - 5 SCHEDULES OF QUANTITIES & SITE MAP
 - 6 BRIDGE GENERAL PLAN AND ELEVATION
 - 7 BRIDGE CROSS SECTION

0

 \circ

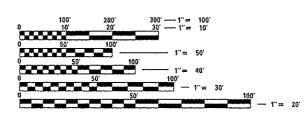
- 8 BRIDGE CONCRETE REMOVAL AND REPLACEMENT
- 9 BRIDGE STEEL RAILING, TYPE 2399

FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

ADT: 10,900(2013) 11,800(2019) 15,300(2039) SU: 2.5% MU: 2.0%

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL



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

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

PROJECT ENGINEER: MICHAEL PRITCHETT 346-3180 SENIOR DESIGNER: BO WEDMORE 346-3206

CONTRACT NO. 76H68

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

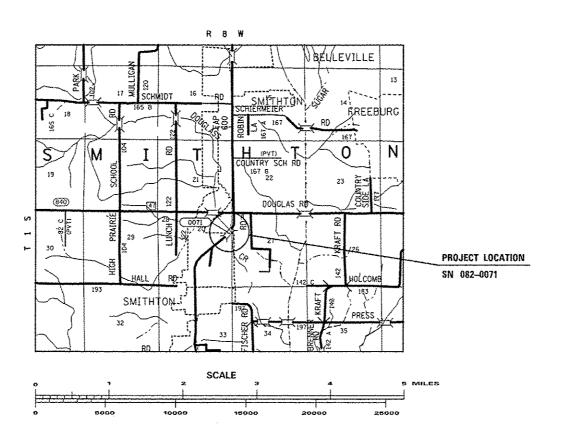
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 600 (IL 159) SECTION 46BR-I

RETROFIT BRIDGE RAIL ST. CLAIR COUNTY

C-98-021-15



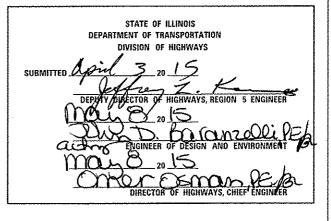
GROSS LENGTH = 754.5 FT. = 0.14 MILE NET LENGTH = 754.5 FT. = 0.14 MILE

SN 082-0071 - LATITUDE: 38.42159186° LONGITUDE: 89.98344597°

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	468R-I	ST. CLAIR	9	1
	11111015	CONTRACT	NO 7	CUCA

D-98-025-15





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

000001-06 001001-02	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONY
701901-04	TRAFFIC CONTROL DEVICES

GENERAL NOTES

- 1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - * AMEREN ILLINOIS GAS & ELECTRIC
 - * AT&T ILLINOIS COMMUNICATIONS
 - * MEDIACOM COMMUNICATIONS
 - * MONROE COUNTY ELECTRIC CO-OPERATIVE. INC. ELECTRIC
 - * NEW WAVE COMMUNICATIONS CABLE TV
 - * VILLAGE OF SMITHTON WATER & SANITARY SEWER

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 3. ANY MISCELLANEOUS EARTHWORK, SEEDING OR NUTRIENTS REQUIRED TO COMPLETE THE PROJECT SHALL BE DONE ACCORDING TO SECTION 250 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND NOT PAID FOR SEPARATELY.
- THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5. ALL WORK REQUIRED TO MEET HIGHWAY STANDARD 630301, SHALL BE INCLUDED IN THE COST FOR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT.
- 6. ALL SAW CUTS FOR THE PAVED SHOULDER REMOVAL SHALL BE INCLUDED IN THE COST FOR THAT PAY ITEM.
- 7. A QUANTITY OF SIX (6) BARRIER WALL MARKERS, TYPE C HAVE BEEN ADDED TO THE PLANS. THESE ARE TO BE APPLIED TO THE STEEL RAILING, TYPE 2399. THREE (3) ARE FOR THE EAST RAIL AND THREE (3) ARE FOR THE WEST RAIL.

U				
	FILE NAME :	USER NAME = wedmorejb	DESIGNED -	REVISED -
i	ai\p=_work\pb(wq/domonwjb\dB4)8604\dB	6h68-sht-plan.dgn	DRAWN -	REVISED -
		PLOT SCALE = 100.0008 '/ 10.	CHECKED -	REVISED -
		PLDT DATE = 4/2/2015	DATE -	REVISED -

STATI	: Of	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

 		GEN	ERAL NO	TES,		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		HIGHW	AV STAN	DARNS	{	600	468R-1	ST. CLAIR	9	2
	HIGHWAY STANDARDS							CONTRACT	NO.	76H68
SCALE:	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS FED. AT	D PROJECT		

CONSTR. CODE
URBAN
100% STATE

		····	_,	100% STATE
		t de la constant de l		BRIDGE
CODE		ing a few sections and the section and the sec	TOTAL	0014
NO.	ITEM	UNIT	QUANTITY	082-007
44004250	PAVED SHOULDER REMOVAL	SO YD	36	36
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SO YD	36	36
50102400	CONCRETE REMOVAL	CU YD	9. 6	9, 6
50104000	BRIDGE RAIL REMOVAL	FOOT	162	162
50300255	CONCRETE SUPERSTRUCTURE	CU YD	9, 6	9. 6
	CONCRETE SUPERSTRUCTURE	CO 1D	3, 0	3. 6
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	380	380
60900200	STEEL RAILING, TYPE 2399	FOOT	185	185
3000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	687.5	687.5
33100087	TRAFFIC BARRIER TERMINAL. TYPE 6A	EACH	4	4
3100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
.5100707	THAT TO DANNIER TERMINAE, THE TYSTECTAET TANGENT	EAUN	T.	
3200310	GUARDRAIL REMOVAL	FOOT	1050	1050
7000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
7100100	MOBILIZATION	L SUM	11	1
0100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	To a second	1

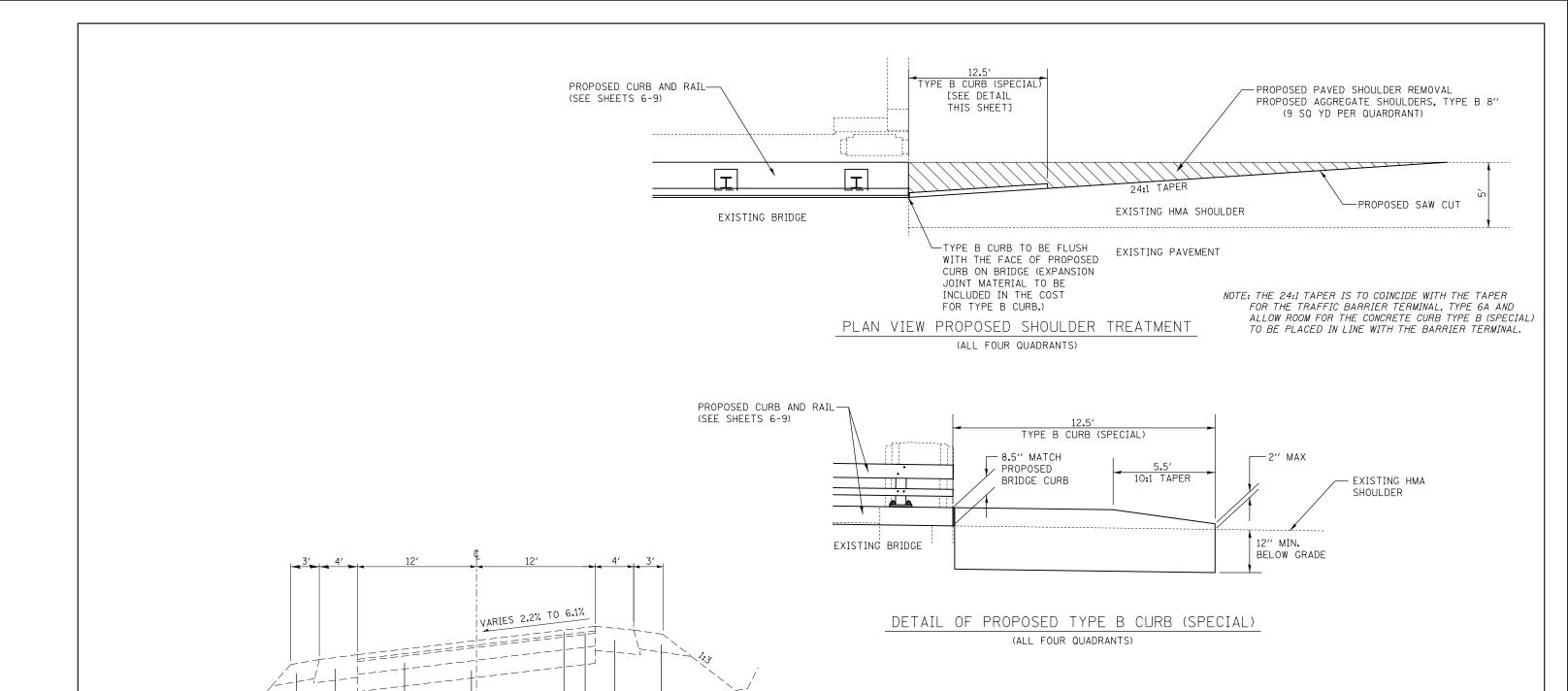
				CONSTR. CODE URBAN 100% STATE
CODE NO.	ITEM	UNIT	TOTAL	BRIDGE 0014 082-0071
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	3	3
78200410	GUARDRAIL MARKERS, TYPE A	EACH	15	15
78200530	BARRIER WALL MARKERS, TYPE C	EACH	6	6
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	50	50

6

	FILE NAME 2	USER NAME = wedmorejb	DESIGNED -	REVISED ~
	8b/1868119b/dj#nomb##/2obing/know_=q/s	6h68-sht-plandgn	DRAWN -	REVISED -
1		PLOT SCALE = 180,0000 '/ >=	CHECKED -	REVISED -
		PLOT DATE # 4/2/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		CALLERS & DV	05 0114	NTITICO			F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		SUMMARY	OF QUA	INTITIES			600	468R-1	ST. CLAIR	9	3
							<u> </u>		CONTRACT		76H68
SCALE:	SHEET	UF	SHEETS	STAL	70	STÁ.	<u> </u>	ILLINOIS FED. AI	D PROJECT		



6 5

3

ROADWAY APPROACH TYPICAL SECTION (N.T.S.)

LEGEND

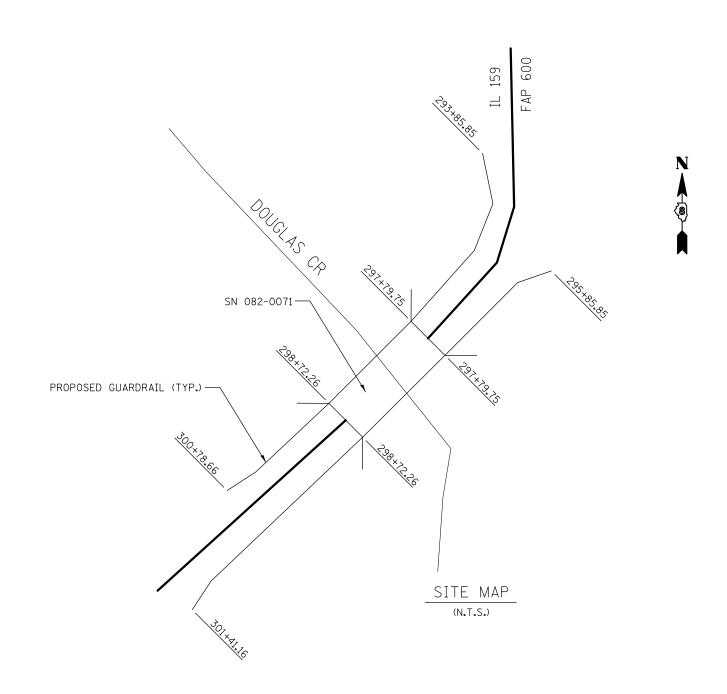
- 1 EXISTING CONCRETE PAVEMENT
 2 EXISTING RESURFACING
 3 EXISTING BITUMINOUS SHOULDER, 8"
 4 EXISTING AGGREGATE SHOULDER, 6"
 5 EXISTING LEVELING BINDER, 3/4"
 6 EXISTING HMA SURFACE COURSE, 1.5"

FILE NAME =	USER NAME = wedmorejb	DESIGNED -	REVISED -		TYPICAL ROADWAY SECTION & DETAILS				F.A.P.	SECTION	COUNTY	TOTAL SHEET		
c:\pw_work\pwidot\wedmorejb\d0418604\d8	376h68-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				600	46BR-I	ST. CLAIR	9 4			
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	& DETAILS						T NO. 76H68			
	PLOT DATE = 4/2/2015	DATE -	REVISED -		SCALE:	SHEET	0F	SHEETS	STA.	TO STA.		ILLINOIS F	ED. AID PROJECT	

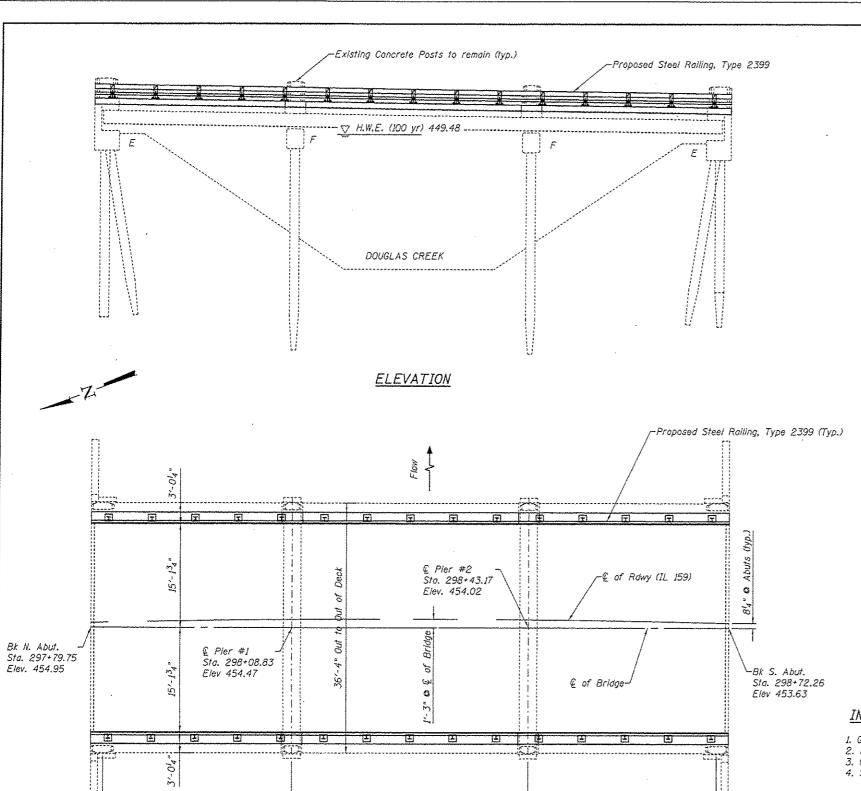
GUARDRAIL SCHEDULE

LC	CATIO	N^1	LENGTH	SIDE	NB/SB	STEEL PLATE BEAM GUARDRAIL. TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6A	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKERS DIRECT APPLIED	CONCRETE CURB TYPE B (SPECIAL)	PAVED SHOULDER REMOVAL	GUARDRAIL REMOVAL
			FOOT			FOOT	EACH	EACH	EACH	EACH	FOOT	SQ YD	FOOT
301+41.16	TO	298+72.26	268.90	EAST	NB	175.0	1	1	4	1	12.5	9	268
297+79.75	TO	295+85.85	193.90	EAST	NB	100.0	1	1	3	1	12.5	9	191
293+85.85	TO	297+79.75	393.90	WEST	SB	300.0	1	1	5	1	12.5	9	394
298+72.26	TO	300+78.66	206.40	WEST	SB	112.5	1	1	3	1	12.5	9	197
		TO	TAL			687.5	4	4	15	4	50	36	1050

1 STATIONS LISTED BY DIRECTION OF TRAVEL



FILE NAME =	USER NAME = wedmorejb	DESIGNED -	REVISED -							F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\wedmorejb\dØ4186Ø4\d	6h68-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		SCHEDUL	CCHEDULE OF QUANTITIES & SITE MAP		600	46BR-I	ST. CLAIR	9 5	
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TO STATE OF SUFFIE STATE OF ST				CONTRACT	NO. 76H68		
	PLOT DATE = 4/2/2015	DATE -	REVISED -		SCALE:	SHEET	OF		TO STA.		ILLINOIS FED. A	D PROJECT	



34'-4"

92'-6" Bk. to Bk. of Abut.

<u>PLAN</u>

Install new curb-mounted Steel Railing, Type 2399

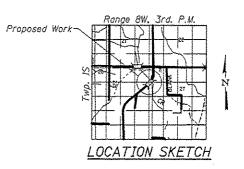
Remove existing metal Bridge Rail and metal Bridge Rail post on bridge.

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

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



INDEX OF SHEETS

- 1. General Plan & Elevation
- 2. Deck Cross Section
- 3. Concrete Removal & Replacement 4. Steel Railing, Type 2399



TOTAL BILL OF MATERIAL

UNIT	TOTAL
Foot	185
Foot	162
Cu. Yd.	9.6
Cu. Yd.	9.6
Pound	380
Pound	
	Foot Cu. Yd. Cu. Yd.

DESIGNED AYV EXAMINED CHECKED ATH. REVISED PASSED CHECKED ATH

27'-4"

1'-9"

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

1'-9"

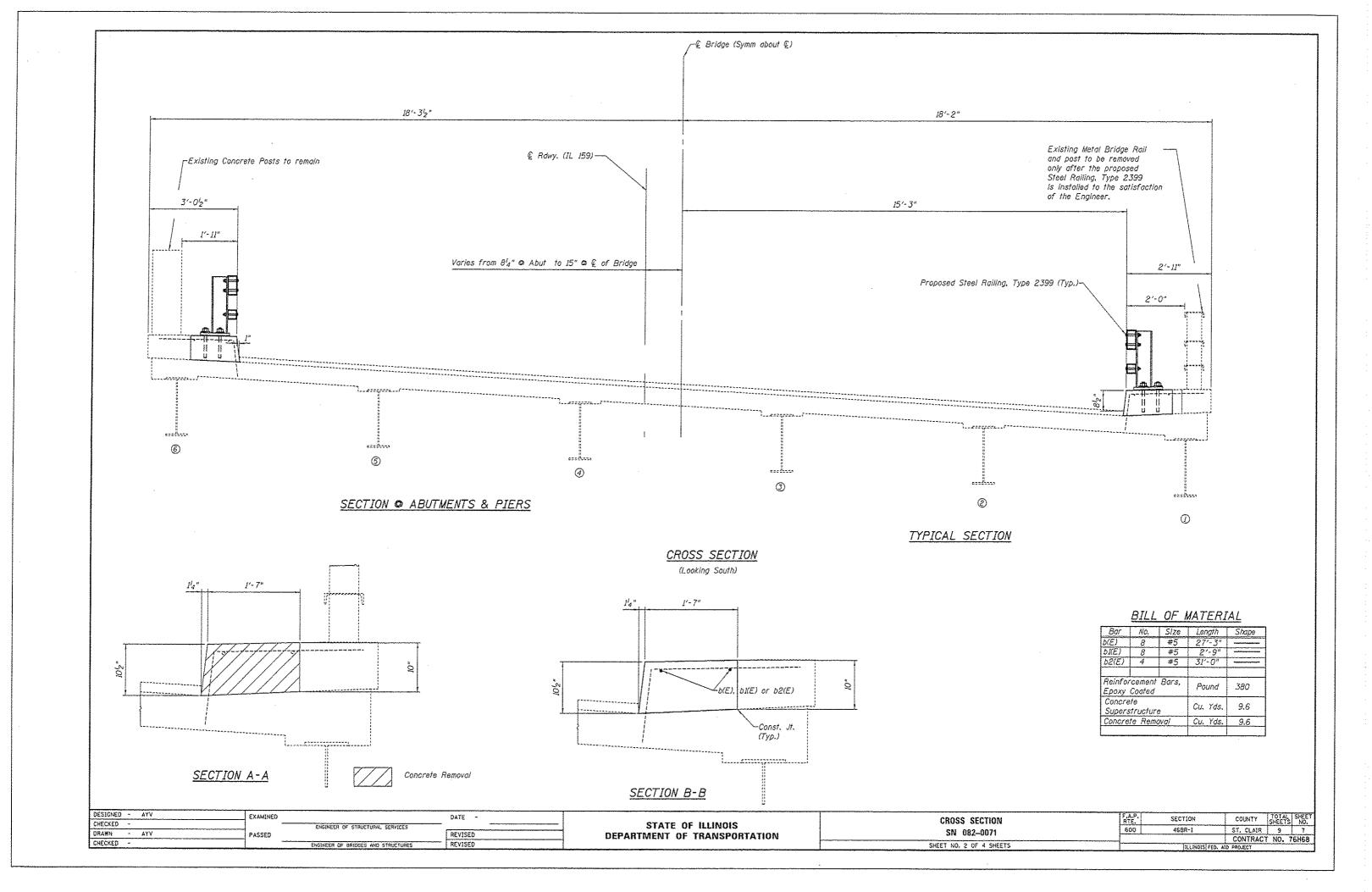
GENERAL PLAN AND ELEVATION (IL 159 over Douglas Creek) SN 082-0071 SHEET NO. 1 OF 4 SHEETS

GOUNTY TOTAL SHEET NO.

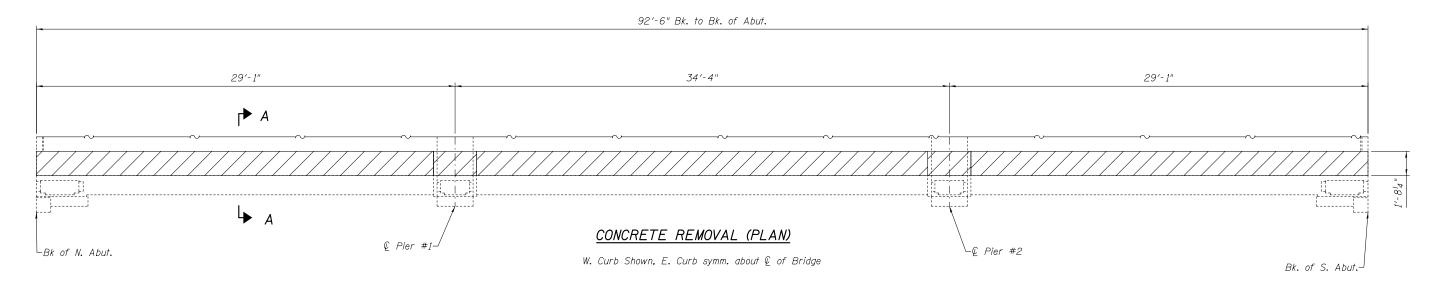
468R-1 ST. CLAIR 9 6

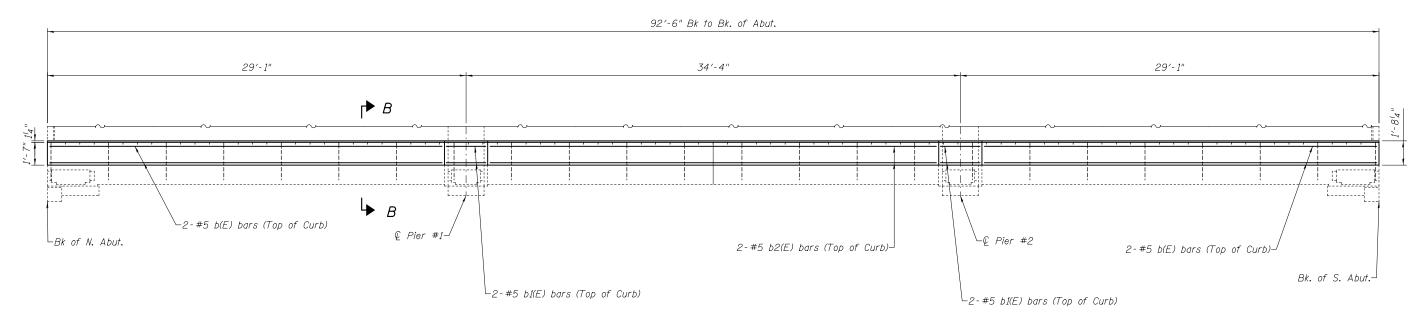
CONTRACT NO. 76H68

JILLINDIS FEO. AID PROJECT SECTION 600









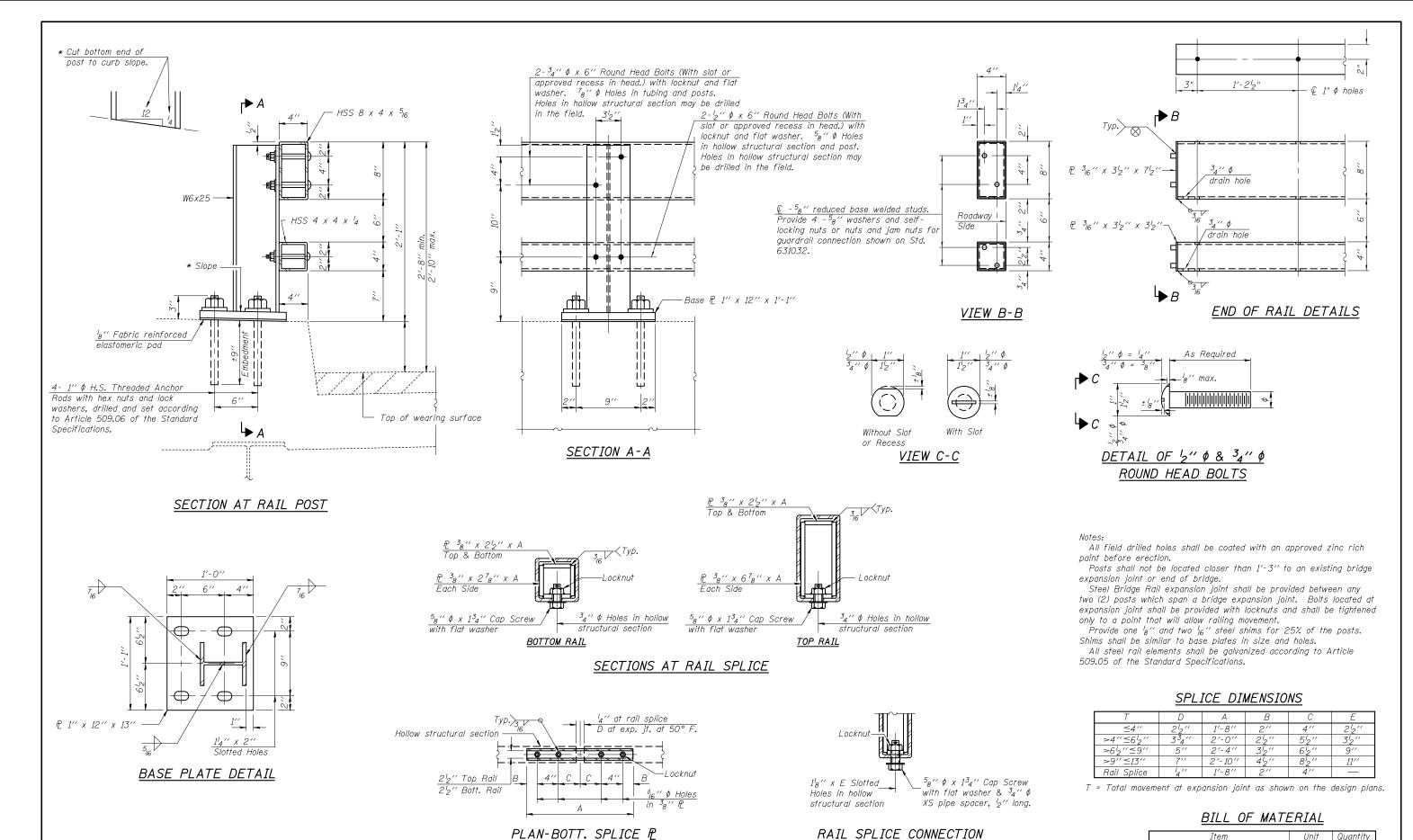
CONCRETE REPLACEMENT (PLAN)

W. Curb Shown, E. Curb symm. about & of Bridge

Concrete Removal

Note: See sheet 2 of 4 for Sections A-A & B-B

DESIGNED - AYV	EXAMINED		DATE -	OTATE OF HUMOIO	CONCRETE REMOVAL & REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY SI	TOTAL SHEET SHEETS NO.
CHECKED - DRAWN - AYV	ENGINEER C	F STRUCTURAL SERVICES	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 082-0071	600	46BR-I	ST. CLAIR CONTRACT	
CHECKED -	ENGINEER OF	BRIDGES AND STRUCTURES	REVISED		SHEET NO. 3 OF 4 SHEETS		ILLINOIS FED. A	AID PROJECT	10. 10100



Item	Unit	Quantity
Steel Railing, Type 2399	Foot	185

(6'-3'' Maximum Post Spacing)

R-31	•	7-1-10		(6'-3'' Maximum	Post Spacing)	
DESIGNED	AYV	EXA	MINED		DATE -	
CHECKED				ENGINEER OF STRUCTURAL SERVICES		
DRAWN	AYV	PAS:	SED		REVISED	
CHECKED				ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL

STEE	L RAI	LING,	TYPI	2399		
STRUCTURE NO. 082-0071						
CHE	ET NO	4 OE	V C L	ETC		

AT EXPANSION JT.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	46BR-I	ST. CLAIR	9	9
		CONTRACT	NO. 7	6H68
	TILINOIS FED. A	D PROJECT		