OTHER PRINCIPAL ARTERIAL F.A.P. ROUTE 350 (IL 50)

TRAFFIC DATA 2009 ADT = 41700

POSTED SPEED LIMIT = 35 MPH

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF BRIDGE REHABILITATION OF THE IL 50 BRIDGE OVER THE CAL SAG CHANNEL.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE VILLAGE OF ALSIP

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 350 (IL 50) **OVER THE CAL SAG CHANNEL SECTION 3068 A-B-R-1** PROJECT: ACBHF-0350(035) **BRIDGE REHABILITATION COOK COUNTY**

C-91-428-11 **END PROJECT** STA. 101 + 89 EXISTING SN: 016-0421 STA. 99 + 91.50 3-SPAN STRUCTURE, APPROACH SPANS ARE REINFORCED CONC. DECK ON STEEL GIRDERS. MAIN SPAN IS STEEL TRUSS. Z 37 **BEGIN PROJECT** STA. 98 + 11 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS **WORTH TOWNSHIP**

Ciorba Group, Inc.

REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS SUITE 402, 5507 NORTH CUMBERLAND AVE CHICAGO, ILLINOIS 60656 :: (773) 775-4009 **LOCATION MAP**

GROSS AND NET LENGTH OF PROJECT = 378 FT = 0.07 MI.

SEAL EXPIRES: 11/30/2012 062-056704 LICENSED PROFESSIONAL . * OF

DATE: 9/6/2011

110

SECTION COUNTY 350 3068 A-B-R-1 COOK 557 1 ILLINOIS CONTRACT NO. 60N88 FED. ROAD DIST. NO. 1

D-91-428-11



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED SEPTEMBER 7, 20 11

Diane M. O'Hafe of DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14 20 11 Scott E. Stitt P.E. /or acting ENGINEER OF DESIGN AND ENVIRONMENT

October 14 2011 Christine M. Road on

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

(847)-705-4523 **PAZON EXPRESSWAY UNIT**

CONTRACT NO. 60N88

1-800-892-0123

OR 811

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT MANAGER: HELEN PAZON

INDEX OF SHEETS

	· ·	
SHEET NO	DESCRIPTION	
1	COVER SHEET	
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	
3-6	SUMMARY OF QUANTITIES	
7	ALIGNMENT, TIES & BENCHMARKS	
8	MAINTENANCE OF TRAFFIC PLAN - STAGE I	
9	MAINTENANCE OF TRAFFIC PLAN - STAGE II	
10	PAVEMENT MARKING PLAN	
11	NAVIGATION AND ROADWAY LIGHTING REMOVAL PLAN	
12	TEMPORARY LIGHTING SYSTEM	
13	NAVIGATION AND ROADWAY LIGHTING CONDUIT PLAN	
14	NAVIGATION LIGHTING ONE LINE DIAGRAM	
15	ROADWAY LIGHTING ONE LINE DIAGRAM	
16-17	NAVIGATION AND ROADWAY LIGHTING DETAILS	
18	SERVICE INSTALLATION, TYPE C (SPECIAL) DETAIL	
19	TEMPORARY WOOD POLE DETAILS	
20	LIGHT POLE FOUNDATION, 40' TO 47 1/2' M.H., 15" BOLT CIRCLE (BE-301)	
21	ALUMINUM LIGHT POLE, 40' MOUNTING HEIGHT (BE-401)	
22	MISC. ELECTRICAL DETAILS SHEET A (BE-702)	
23	TEMPOARY AERIAL CABLE INSTALLATION (BE-801)	
24-50	STRUCTURAL SHEETS	
51	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)	
52	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	
53	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	
54	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	
55	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	
56	ARTERIAL ROAD INFORMATION SIGN (TC-22)	
57	DRIVEWAY ENTRANCE SIGNING (TC-26)	

STATE STANDARDS

606306 - 03	CORRUGATED PC CONCRETE MEDIANS
635011 - 02	REFLECTOR MARKER AND MOUNTING DETAILS
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS LESS THAN OR EQUAL TO 40MPH
701606 -07	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701801 - 04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSUR
701901- <i>01</i>	TRAFFIC CONTROL DEVICES
704001- <i>06</i>	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

000001-06 STANDARD SYMBOLS, ABBREVATIONS AND PATTERNS

<u>COMMITMENTS</u>

- 1 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING TREES WITHIN THE CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL CONTACT THE US COAST GUARD FOUR WEEKS PRIOR TO STARTING ANY WORK THAT MAY INTERFERE WITH NAVIGATION OPERATIONS IN THE CHANNEL. SEE SPECIAL PROVISIONS FOR DETAILS.

 THE CONTACT PERSON IS AS FOLLOWS:

DISTRICT COMMANDER
SCOTT STRIFFLER, BRIDGE PROGRAM MANAGER
UNITED STATES COAST GUARD
NINTH U.S. COAST GUARD DISTRICT
1240 EAST NINTH STREET
CLEVELAND, OH 44199
PHONE: (216) 902-6085

GENERAL NOTES

- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL CONTACT PATRICE HARRIS, THE AREA TRAFFIC FIELD TECHNICICAN, AT (708) 597-9800 TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 4 ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED PAVEMENT MARKING LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 5 BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART

OPERATIONS	MIXTURE TYPE	AIR VOIDS @ Ndes
TEMPORARY PAVEMENT	TEMPORARY PAVEMENT, 10" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 MM), 2" TEMPORARY PAVEMENT (HMA BINDER IL-19 MM), 8"	4% @ 50 GYR 4% @ 50 GYR

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTE FOR TEMPORARY PAVEMENT:
PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE
REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS"; TYPICALLY 10" THICK.

`L		A.,	
ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - EPS	REVISED -
Ciorba Group, Inc.		DRAWN - EPS	REVISED -
CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402	PLOT SCALE = 1.0000 ' / IN.	RAWN - EPS REVISED - HECKED - WBL REVISED -	
Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@clorba.com	PLOT DATE = 9/14/2011	DATE - 9/2/11	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL. 50 OVER THE CAL SAG CHANNEL STRUCTURE NO. 016-0421						F.A.P. RTE.	L			
IDEV	05							NOTEO	350	L
ADEX	UF	SHEETS, ST.	AIL	SIANDA	4KD2	Čŧ	GENERAL	MOIF2		
CALE:		SHEET NO.	OF	SHEETS	STA.		TO STA.			-

F.A.P. RTE.	SE	CTION			COUNTY	TOTAL SHEETS	SHEET NO.
350	3068	A-B-R-1			соок	57	2
				T	CONTRACT	NO. 60	N88
		ILLINOIS	FED.	AID	PROJECT		

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	CONSTRUCTION CODE						
URBAN -	80% FEDERAL, 20% STATE	100% VILLAGE					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	STRUCTURAL 0014	LIGHTING 0021
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	6		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	250	60		190
25000210	SEEDING, CLASS 2A	ACRE	0.1			0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4	1		3
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	1		3
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	1		3
25200200	SUPPLEMENTAL WATERING	UNIT	8	2		6
44000100	PAVEMENT REMOVAL	SQ YD	74	74		-
50102400	CONCRETE REMOVAL	CU YD	26.1		26.1	
50157300	PROTECTIVE SHIELD	SQ YD	60		60	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	26.1		26.1	
50300300	PROTECTIVE COAT	SO YD	91		91	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,040		6,040	····
50800515	BAR SPLICERS	EACH	70		70	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	241		241	
58700300	CONCRETE SEALER	SQ FT	195		195	
59000200	EPOXY CRACK INJECTION	FOOT	6		6	
60624600	CORRUGATED MEDIAN	SQ FT	663	663		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8		
67100100	MOBILIZATION	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	10	10		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	3,133	3,133		

DENOTES SPECIALTY ITEM

ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - JMV	REVISED -	
Ciorba Group, Inc.		DRAWN - JMK	REVISED -	
CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, fillinois 90556	PLOT_SCALE = 1.0000 '/ IN.	CHECKED - JMV	REVISED -	
Chicago, Illinois 80856 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@clorba.com	PLOT DATE = 9/9/2011	DATE - 9/2/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL				SAG CHAI 016-0421	NNEL
	SUMI	MARY (OF QL	JANTITIES	
1" = 20'	SHEET NO	OF	SHEETS	STA.	TO S

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CONSTRUCTION COD	E		
URBAN - 80% FEDERAL, 20% STATE	100% VILLAGE		

	CODE NO.	ITEM	UNIT	TOTAL OUANTITY	ROADWAY 0004	STRUCTURAL 0014	LIGHTING
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	625	625		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	600	600		
•	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SO FT	36	36		
	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FDDT	6,794	6,794		
	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	165	165		
	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FT	124	124		
•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	103	103		
	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	38	38		
•							
•	78200530	BARRIER WALL MARKERS, TYPE C	EACH	100	100		
	78300100	PAVEMENT MARKING REMOVAL	S0 FT	2,510	2,510		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	141	141		
•	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1		
•	81000500	CONDUIT IN TRENCH, I 1/2" DIA., GALVANIZED STEEL	FOOT	85	85		
•	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	670	670		
•	81100510	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	630			630
•	81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	10			10
	81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	9	6		3
•	81300810	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 8"	EACH	3	1		2
•	81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	280	,		280
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,500	2,500		
	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1,920	ı		1,920
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	365	365		
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4			4
							,
•	82200605	WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED	EACH	6	6		
•	83008500	SPECIALTY ITEM	EACH	1			1

[•] DENOTES SPECIALTY ITEM

ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - JMV	REVISED -
Ciorba Group, Inc.		DRAWN - JMK	REVISED -
CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402	PLOT SCALE = 1.0000 '/ IN.	CHECKED - JMV	REVISED -
Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@clorba.com	PLOT DATE = 9/9/2011	DATE - 9/2/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	1L	STR	ÜCTÜ	IE CAL RE NO. ' OF QU	016-04	
1"	= 20'	SHEET NO.	OF	SHEETS	STA.	TO STA

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				URBAN - 80% FE	DERAL, 20% STATE	100% VILLAGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	STRUCTURAL 0014	LIGHTING OOZI
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	7	,		7
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	1			1
84301200	REMOVAL OF NAVIGATION OBSTRUCTION WARNING LIGHTING SYSTEM	L SUM	1	1		
X0300864	MAINTENANCE OF NAVIGATION	L SUM	1	1		
X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1			1
X8771100	MAST ARM REPLACEMENT (SPECIAL)	EACH	3			3
X8110551	CONDUIT, FLEXIBLE NON-METALLIC, WEATHERPROOF, 1" DIAMETER	FOOT	25	25		
X5030530	FLOOR DRAIN EXTENSION	EACH	24		24	
X6060500	CORRUGATED MEDIAN REMOVAL	S0 FT	663	663		
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	9,113	9,113		
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	190	190		
X8050050	SERVICE INSTALLATION, TYPE C (SPECIAL)	EACH	1	1		
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1			1
Z0001905	STRUCTURAL STEEL REPAIR	POUND	16,240		16,240	
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1		1	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1	
20010301	CLEANING AND FAINTING STEEL BRIDGE NO. 1	L JUM	1		1	
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION (3/8 INCH)	SQ YD	2,300		2,300	
Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	2,300		2,300	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	408		408	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0015802	PLUG EXISTING DECK DRAINS	EACH	8		8	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	3		3	
Z0021902	SILICONE JOINT SEALER, 1/2"	FOOT	22		22	
Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2		
Z0030322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2		
	S SPECIALTY ITEM		L		.1	<u> </u>

[•] DENOTES SPECIALTY ITEM

							Ke	ev.
ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - JMV	REVISED -		ILL. 50 OVER THE CAL SAG CHANNEL	F.A.P. SECTION	COUNTY TOTAL	L SHEET
Ciorba Group, Inc.		DRAWN - JMK	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0421	350 3068 A-B-R-1	COOK 57	5 10.
5507 North Cumberland Avenue, Suite 402	PLOT SCALE = 1.0000 ' / IN.	CHECKED - JMV	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	500 A 5 W 1	CONTRACT NO. 6	50N88
Chloago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chloago@ciorba.com	PLOT DATE = 9/9/2011	DATE - 9/2/11	REVISED -		SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. A	ID PROJECT	

CONSTRUCTION CODE

					(CONSTRUCTION COD	E
					URBAN - 80% FEI	DERAL, 20% STATE	100% VILLAGE
	CODE NO.	ITEM	UNIT	TOTAL OUANTITY	ROADWAY 0004	STRUCTURAL 0014	LIGHTING
	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	100	100		
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5			5
	Z0053800	RIVET REMOVAL AND REPLACEMENT	EACH	240		240	
	Z0062456	TEMPORARY PAVEMENT	SO YD	74	74		
•	X8260112	MAINTENANCE OF NAVIGATION LICHTING SYSTEM	CAL MO	5	5		
-	X8110553	CONDUIT, FLEXIBLE NON-METALLIC, WEATHERPROOF, 1.5" DIAMETER	FOOT	ίοσ	5		95
-	X8H0507	CONDUIT, FLEXIBLE METALLIC, WEATHERPROOF, 2.5-		 5			
	X8110509	CONDUIT, FLEXIBLE METALLIC, WEATHERPROOF, 3	FOOT	10			10

[•] DENOTES SPECIALTY ITEM

ENGINEERING CONSULTANT DESIGNED - JMV REVISED -Ciorba Group, Inc.
CONSULTING ENGINEERS

5507 North Cumberdand Avenue, Suite 402

Chicago: Blinds 886686 DRAWN - JMK REVISED -PLOT SCALE = 1.0000 '/ IN. CHECKED - JMV REVISED -PLOT DATE = 9/9/2011 DATE - 9/2/11 REVISED -

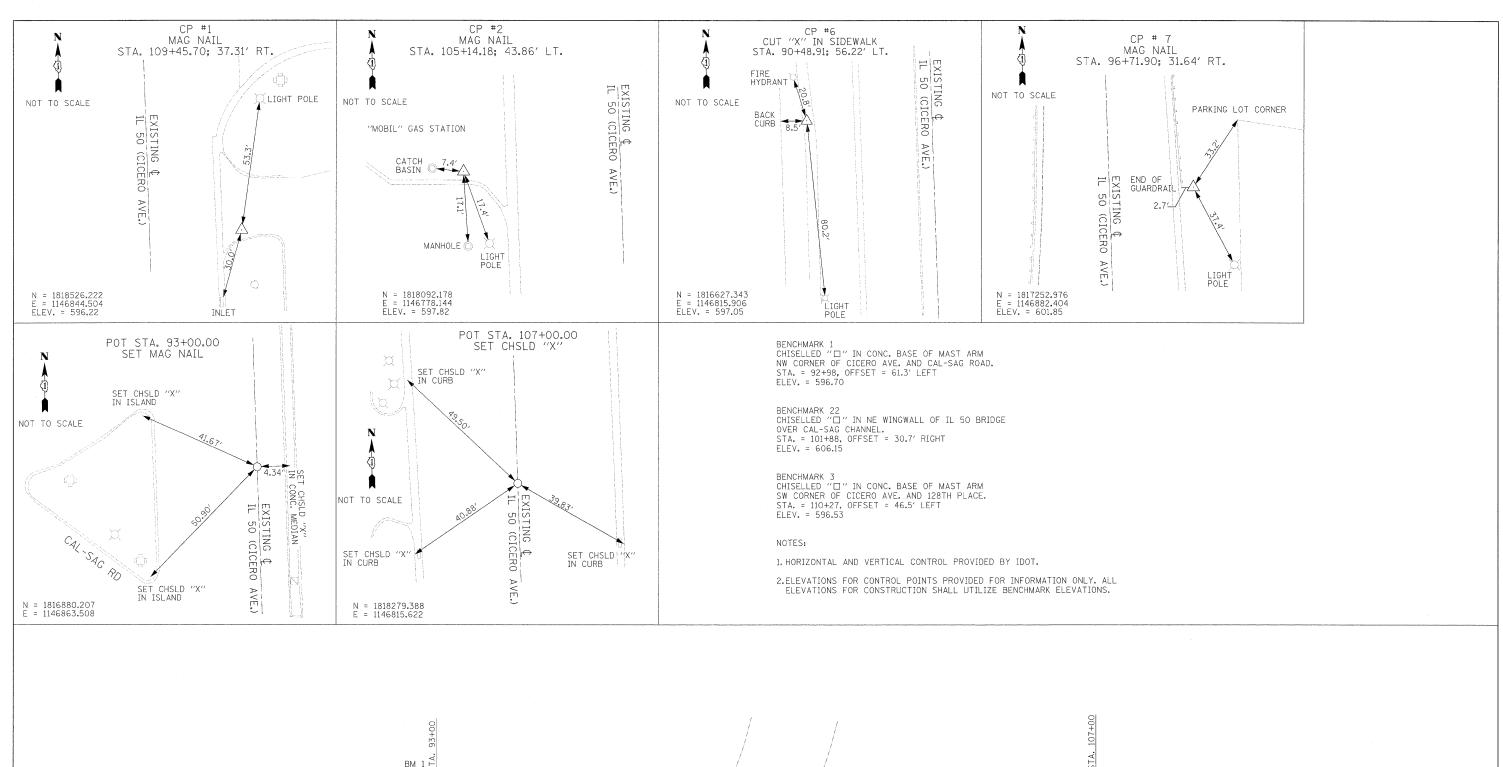
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

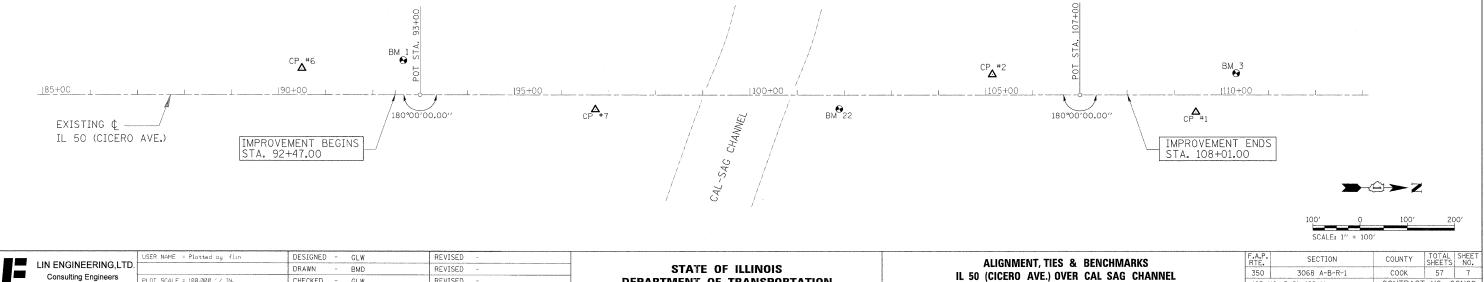
ILL. 50 OVER THE CAL SAG CHANNEL STRUCTURE NO. 016-0421 SUMMARY OF QUANTITIES SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

Rev.

COUNTY TOTAL SHEET NO.

COOK 57 6 SECTION 3068 A-B-R-1 CONTRACT NO. 60N88 ILLINOIS FED. AID PROJECT





DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 60N88

JOB NO. D-91-428-11

FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT

NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. 93+00.00 TO STA. 107+00.00

PLOT SCALE = 100.000 '/ IN

PLOT DATE = 9/9/2011

Chatham, Illinois

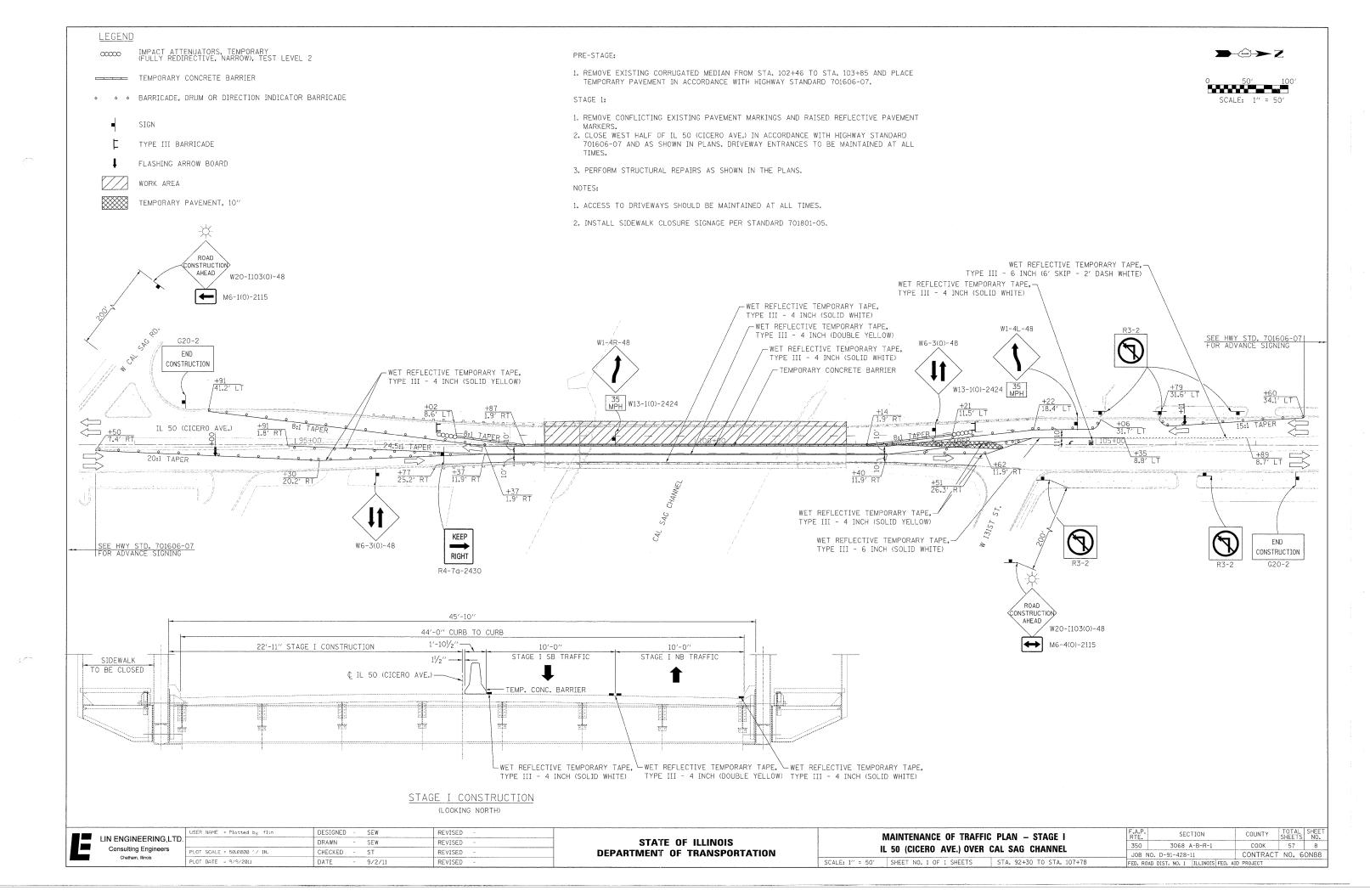
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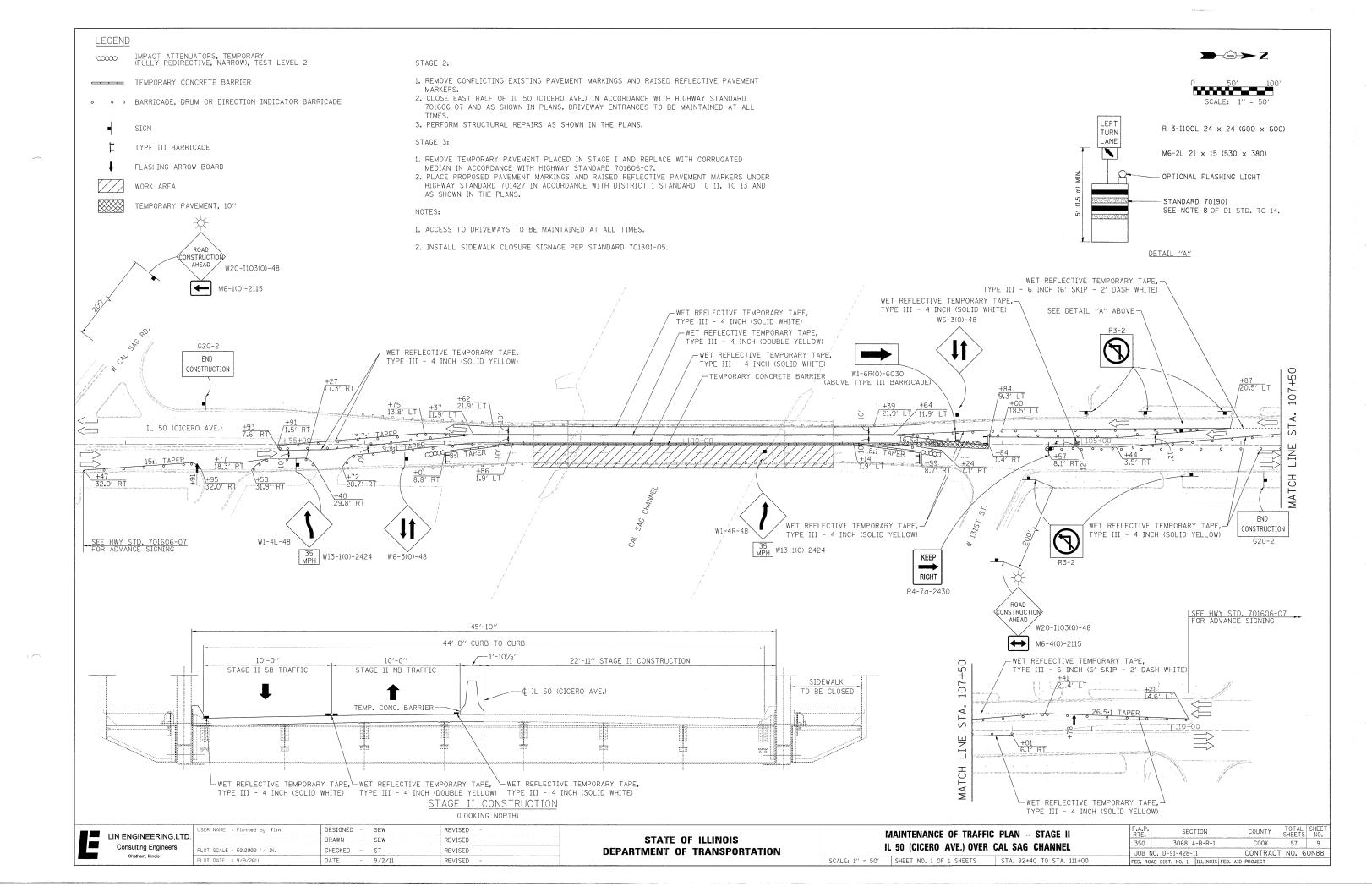
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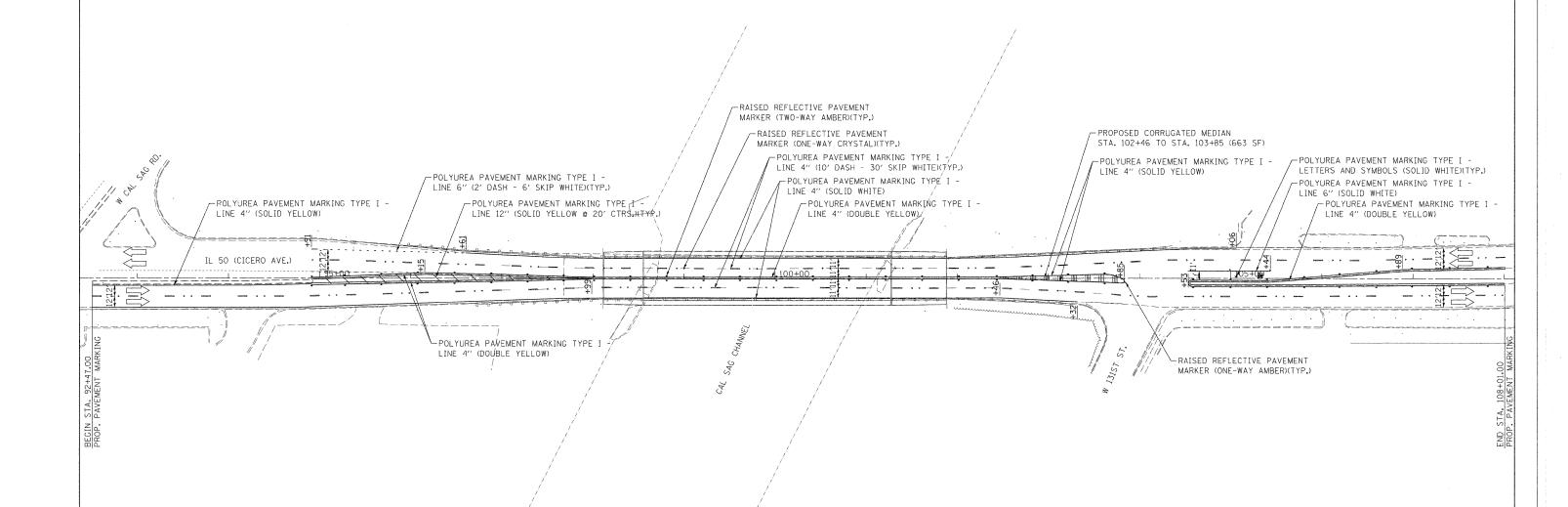




- 1. ALL PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE STANDARDS "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" (TC-11) AND "TYPICAL PAVEMENT MARKINGS" (TC-13).
- 2. IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD, SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID UNIT PRICE FOR THE WORK,



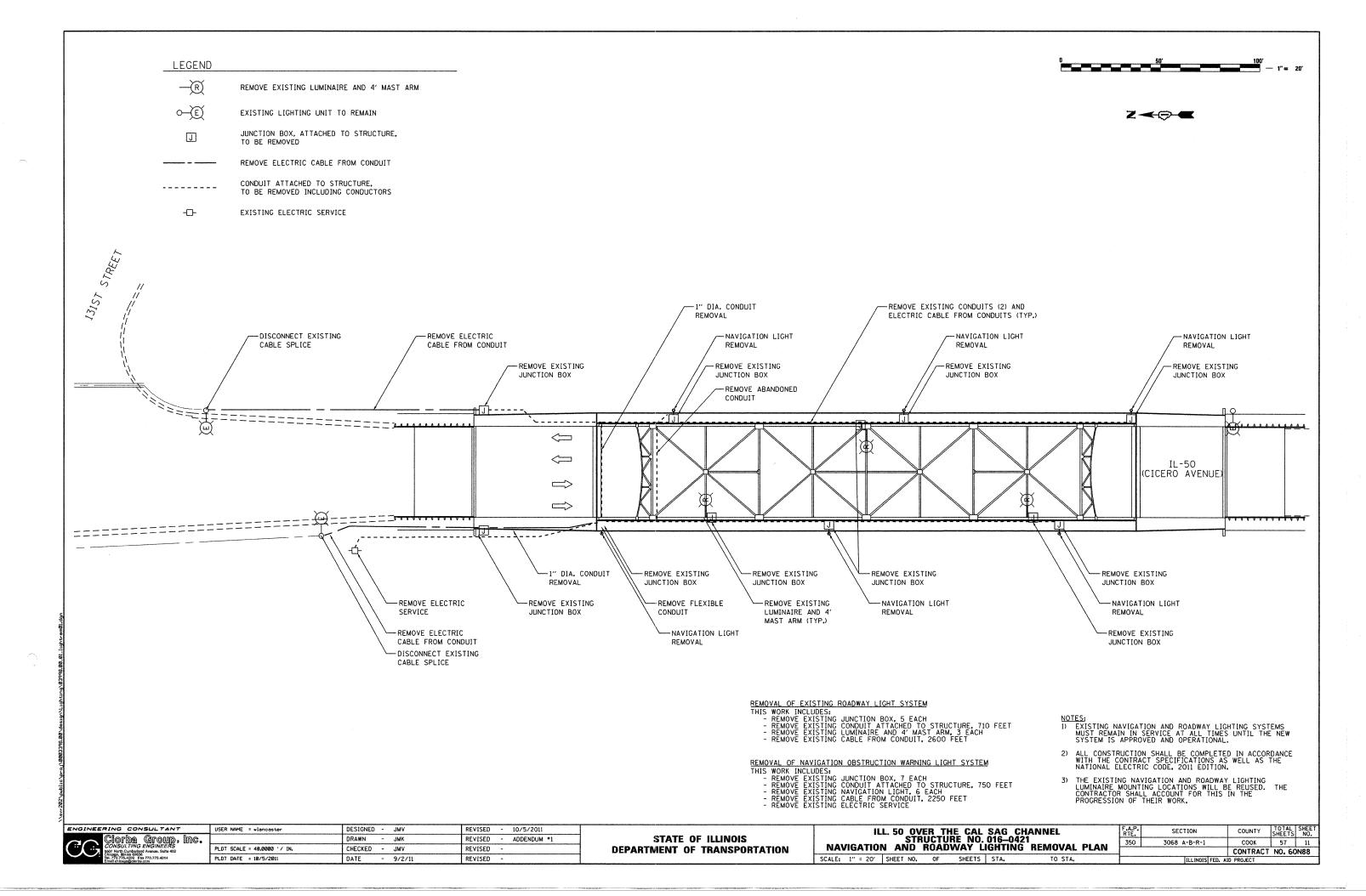
0 50' 100 SCALE: 1'' = 50'



_	USER NAME = Roadways7	DESIGNED	-	SEW	REVISED	-	
J.		DRAWN	-	SEW	REVISED	-	
	PLOT SCALE = 100.0000 '/ IN.	CHECKED	~	ST	REVISED	-	
	PLOT DATE = 9/16/2011	DATE	-	9/2/11	REVISED	-	
							-

	PAVEMENT MARKING PLAN					
IL.	50 (CICERO	AVE.) OVER	CAL SAG CHAI	NNEL		
SCALE: 1" = 50'	SHEET NO. 1 OF	1 SHEETS	STA. 92+40 TO	STA. 108+10		

F.A.P. RTE.	SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.
350	3068 4	N-B-R-1			COOK	57	10
 JOB N	NO. D-91-428-	11		T	CONTRACT	NO. 6	0N88
FED. RO	AD DIST. NO. 1	ILLINOIS	AID	PROJECT			

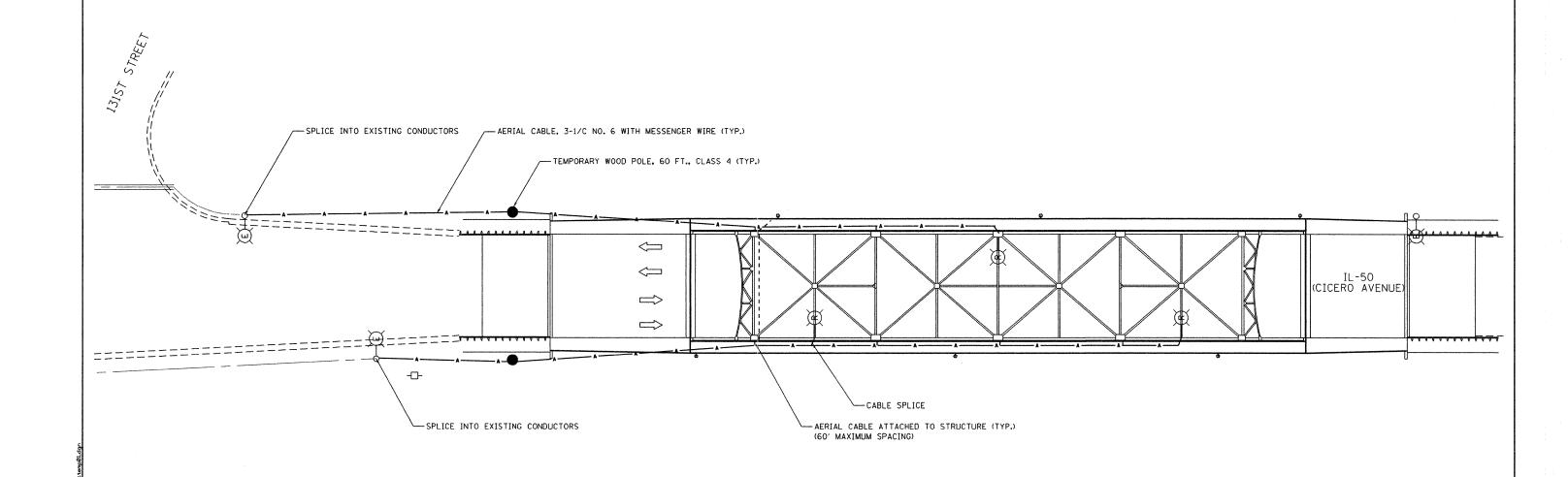


LEGEND $\overline{\mathbb{R}}$ EXISTING LUMINAIRE AND 4' ARM TO BE REMOVED AND REPLACED 0—E) EXISTING LIGHTING UNIT TO REMAIN AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE, 825 FEET

TEMPORARY WOOD POLE, 60 FT., CLASS 4







TEMPORARY LIGHTING SYSTEM

- THIS WORK INCLUDES:

 TEMPORARY WOOD POLE, 60 FT., CLASS 4, 2 EACH
 AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE, 825 FEET
 CABLE SPLICE, 3 EACH
 AERIAL CABLE ATTACHED TO STRUCTURE, 9 EACH
 TEMPORARY AERIAL CONNECTION TO EXISTING LIGHT POLE, 2 EACH
 REMOVAL OF ALL TEMPORARY MATERIALS, 1 LUMP SUM

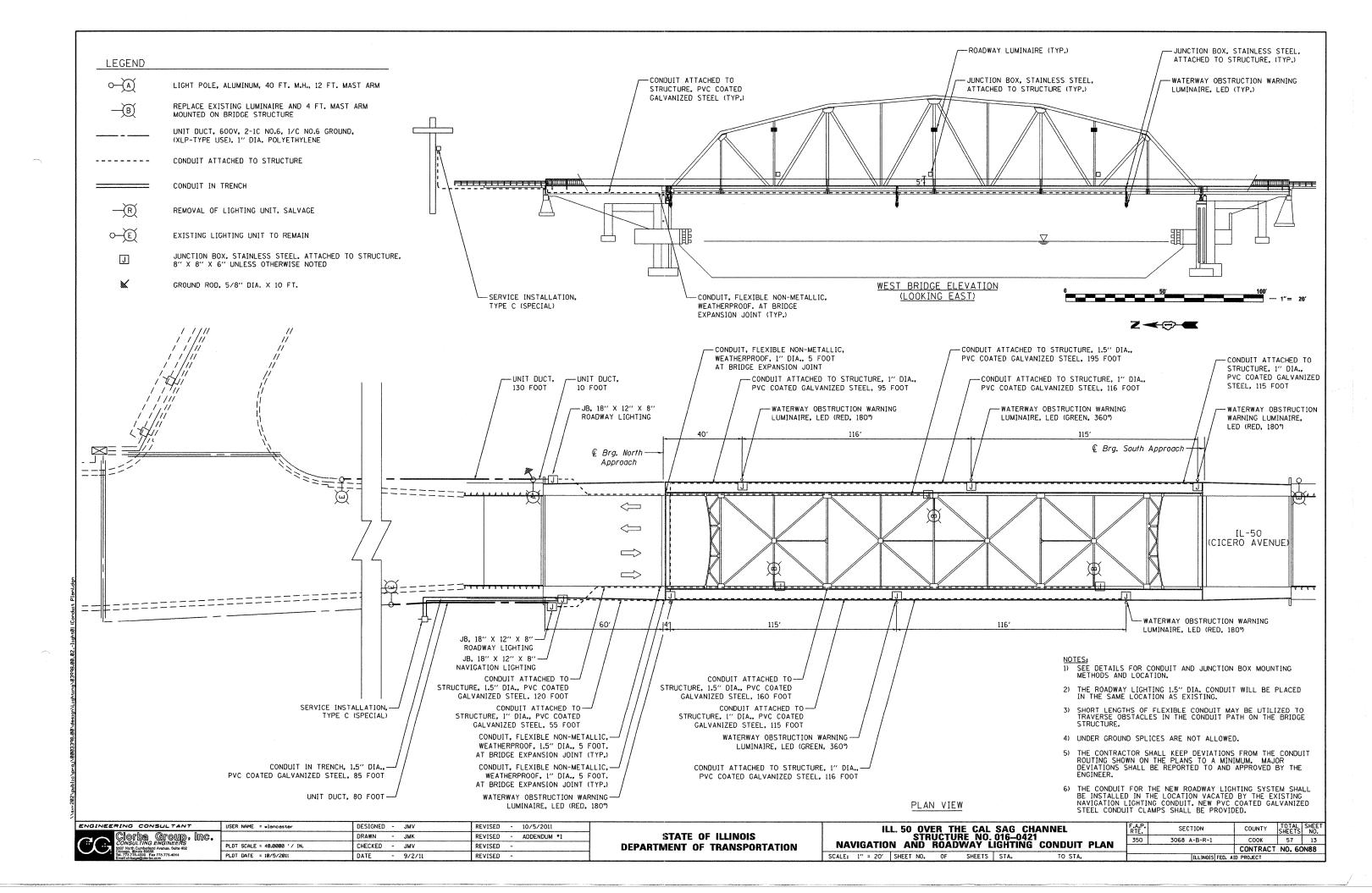
- NOTES:

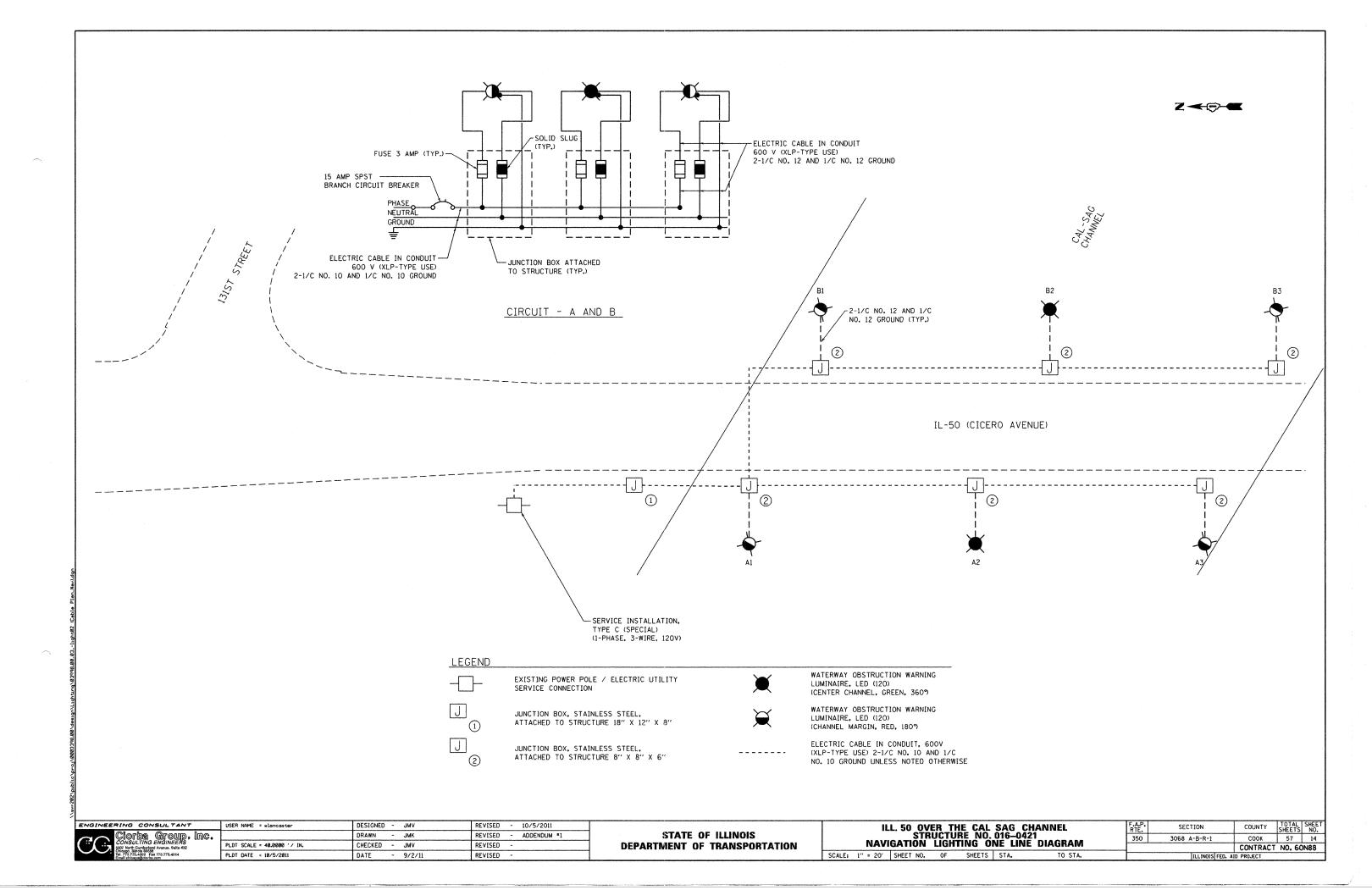
 1) EXISTING ROADWAY LIGHTING SYSTEMS MUST REMAIN IN SERVICE AT ALL TIMES UNTIL THE NEW SYSTEM IS APPROVED AND OPERATIONAL.
- 2) THE EXISTING NAVIGATION AND ROADWAY LIGHTING LUMINAIRE MOUNTING LOCATIONS WILL BE REUSED. THE CONTRACTOR SHALL ACCOUNT FOR THIS IN THE PROGRESSION OF THEIR WORK.

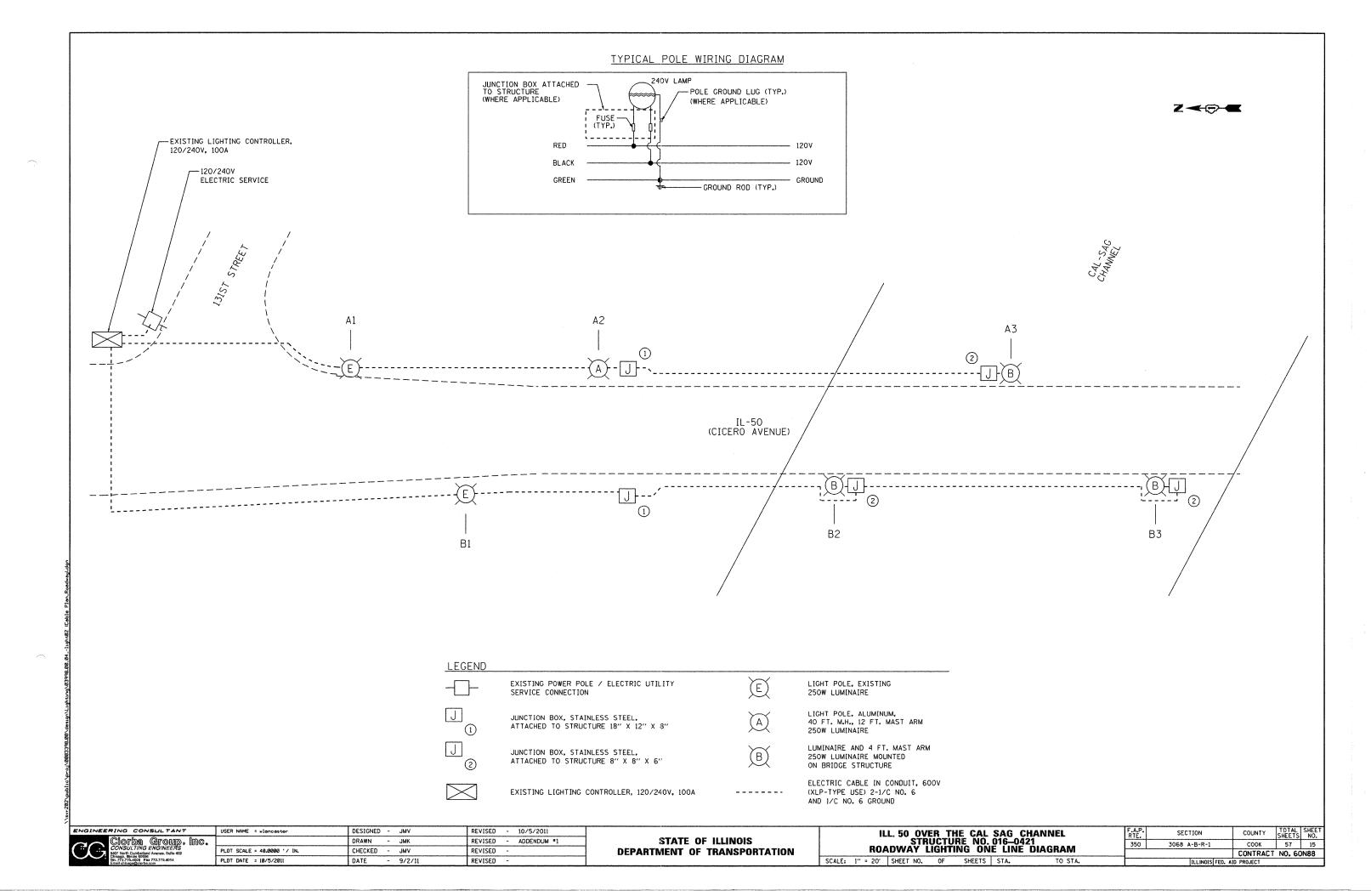
ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - JMV	REVISED - 10/5/2011	
Ciorba Group, Inc.		DRAWN - JMK	REVISED - ADDENDUM #1	
CONSULTING ENGINEERS 5507 North Cumberland Avenue, Sulte 402	PLDT SCALE = 40.0000 '/ IN.	CHECKED - JMV	REVISED -	
Chicago, illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@cootus.com	PLDT DATE = 10/5/2011	DATE - 9/2/11	REVISED -	

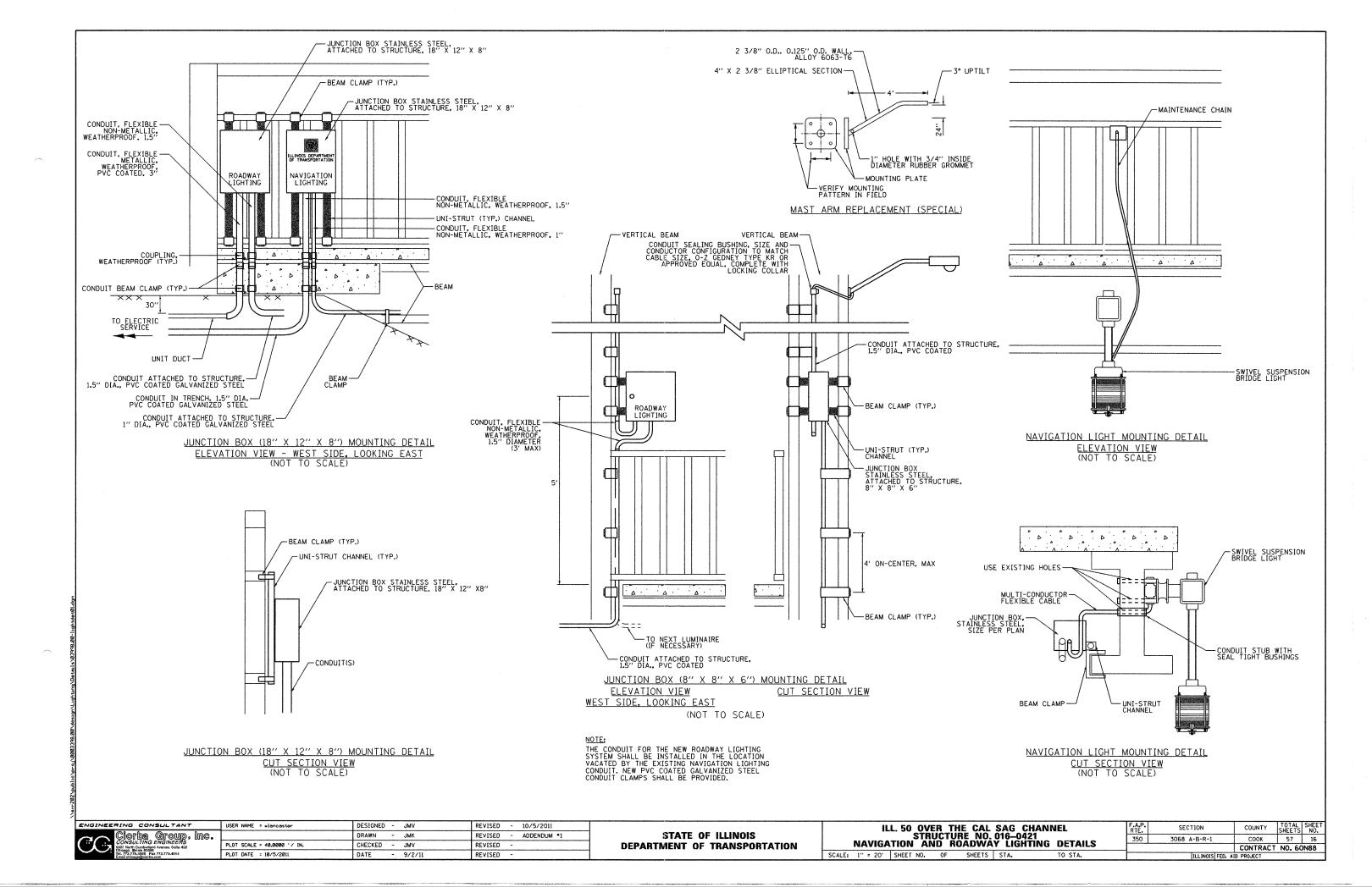
			IL		;	STF	NUC	TURI	NO.	010	5-0	CHANN 421 /STEM	EL	
SCALE:	1"	Ξ	20'	SH	EET	NO.	0	F	SHEETS	ST	Α.		ТО	STA.

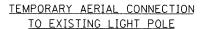
 F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
350	3068 A-B-R-1	СООК	57	12	
			CONTRACT	NO. 60	N88
	ILLINOIS	FED.	AID PROJECT		

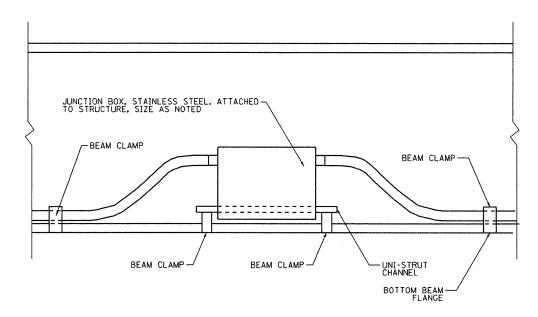




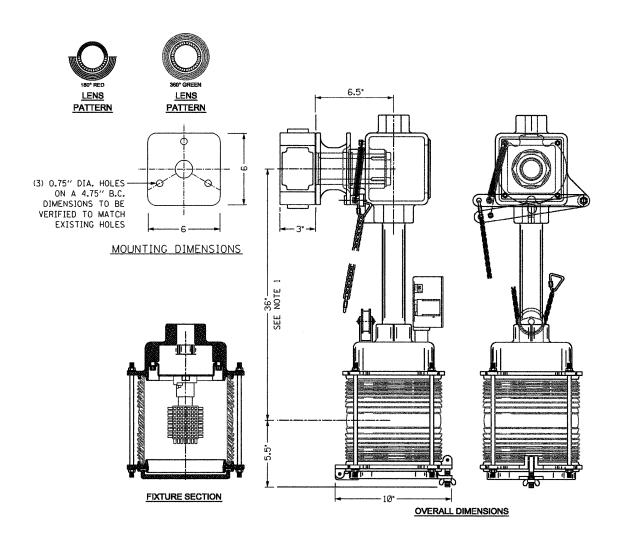








JUNCTION BOX MOUNTING DETAIL ELEVATION VIEW (NOT TO SCALE)



WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED

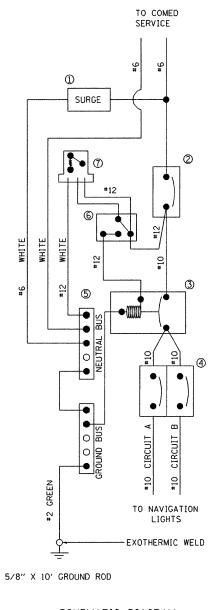
NOTES: CONTRACTOR SHALL VERIFY ARM LENGTH IN FIELD. ENTIRE LENS SHALL BE LOCATED BELOW THE LOW STEEL POINT, ALLOWING THE NAVIGATION LIGHT TO BE VISIBLE FROM BOTH CHANNEL APPROACHES.

NEW LUMINAIRES MAY NOT EXTEND LOWER THAN THE EXISTING LUMINAIRES.

ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - JMV	REVISED - 10/5/2011
Ciorba Group. Inc.		DRAWN - JMK	REVISED - ADDENDUM #1
CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402	PLOT SCALE = 2.0000 '/ IN.	CHECKED - JMV	REVISED -
5507 North Cumbertand Avenue, Sulte 492 Chicapo, Bilnois 60656 Tel. 773.775.4099 Fax 773.775.4014 Email chicago@Gotrisa.com	PLDT DATE = 10/5/2011	DATE - 9/2/11	REVISED -

		STR	ÜCTL	JRE NO.	SAG CHANI 016-0421 Y LIGHTING	
SCALE:	1" = 20'	SHEET NO.	0F	SHEETS	STA.	TO STA.

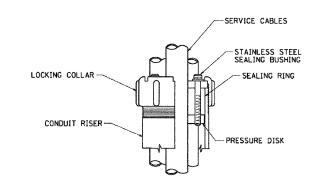
·	F.A.P. RTE.	SE	CTION			COUNTY	TOTAL SHEETS	SHEET NO.
	350	3068	A-B-R-1		T	соок	57	17
					I	CONTRACT	NO. 60	88NC
			ILLINOIS	FED.	AID	PROJECT		



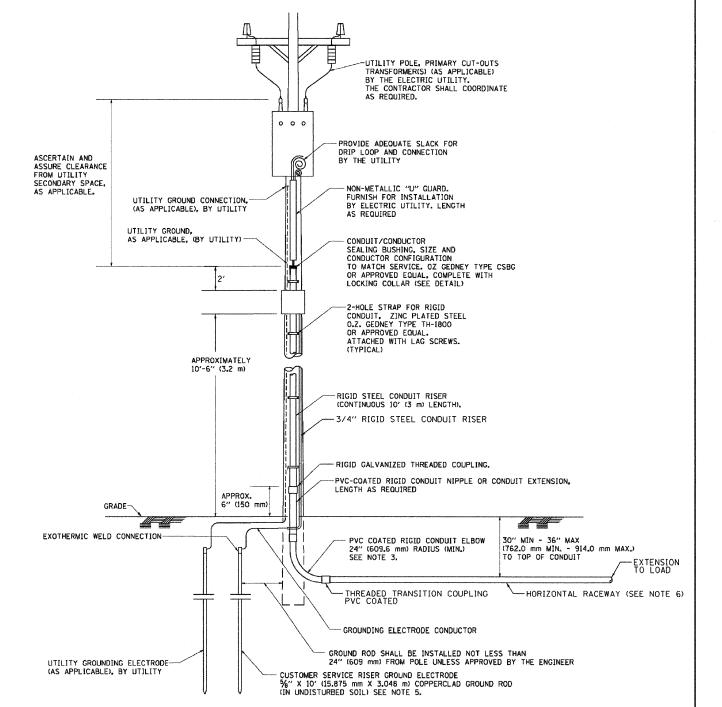
COMPONENTS

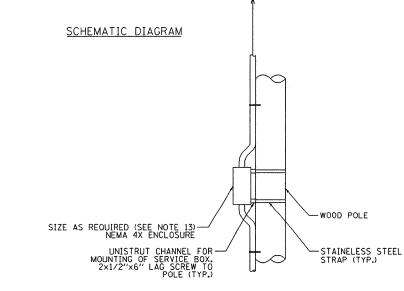
- ① SURGE PROTECTOR 2 MAIN BREAKER IP, 30A, THERMAL MAGNETIC
- 3 RELAY SWITCH, IP, 30A 4 BRANCH BREAKER 1P, 15A, THERMAL MAGNETIC
- (5) GROUND/NEUTRAL BUS 6 BYPASS SWITCH, SPDT
- THOTOCEL, 120V

- NOTES
- 1. ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY.
- 2. THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 120V 2W SERVICE, COMPLETE WITH MAIN
- 3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- 4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADOCK PROVISIONS AND DOOR STOP.
- 5. CIRCUIT BREAKER SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 120 VOLTS. IT SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLE SHALL BE TRIP FREE.
- 6. THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449 OR APPROVED EQUAL.
- 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
- 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- 9. THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD
- 10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE
- 11. LUGS AND CONNECTORS SHALL BE RATED FOR 90 C CONDUCTOR.
- 12. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.
- 13. ENCLOSURE SHALL BE NO LARGER THAN 20" X 16" X 8", UNLESS APPROVED BY COMED.
- 14. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 15. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLTION AND SERVICE CONNECTION
- 16. THE HORIZONTAL RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
- 17. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHEMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY. FURNISHING SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE SERVICE INSTALLATION, TYPE C (SPECIAL) PAY ITEMS.



SEALING BUSHING DETAIL



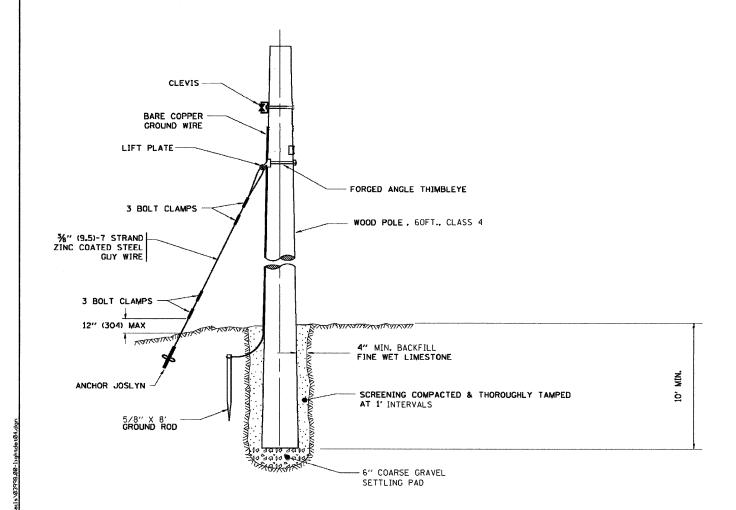


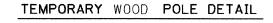
DISCONNECT MOUNTING DETAIL NOT TO SCALE

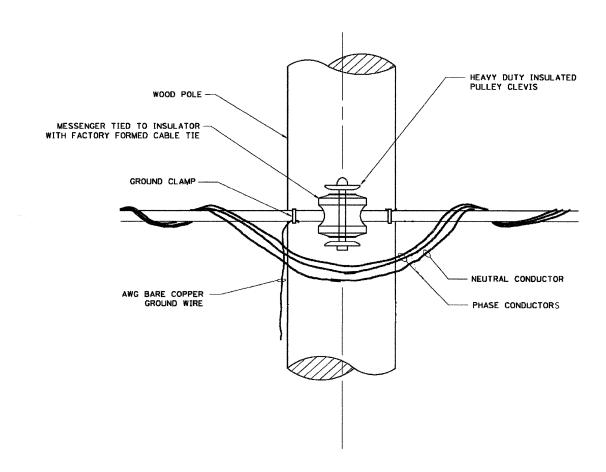
TO COMED SERVICE

ENGINEERING CONSULTANT DESIGNED - JMV REVISED - 10/5/2011 USER NAME = wlancaste ADDENDUM *1 CHECKED - JMV REVISED PLDT SCALE = 2.0000 '/ IN. PLDT DATE = 10/5/2011 DATE - 9/2/11 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** ILL. 50 OVER THE CAL SAG CHANNEL STRUCTURE NO. 016-0421 SERVICE INSTALLATION, TYPE C (SPECIAL) DETAIL TOTAL SHEE SHEETS NO. SECTION COUNTY соок 350 3068 A-B-R-1 CONTRACT NO. 60N88 SHEET NO. OF SHEETS STA.







TEMPORARY WOOD POLE ATTACHMENT DETAIL

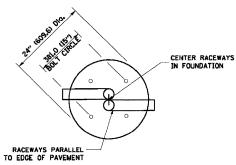
ENGINEERING CONSULTANT	USER NAME = wlancaster	DESIGNED - JMV	REVISED - 10/5/2011
Ciorba Group, Inc.		DRAWN - JMK	REVISED - ADDENDUM #1
SILVI 1993 SILVI GIND 9 ULUI 9 • CONSULTING ENGINEERS SSOT North Cumberland Avenue, Sulte 402 Chicago, Hillioid 60359	PLDT SCALE = 2.0000 '/ IN.	CHECKED - JMV	REVISED -
Chicago, Binois 60856 Tel. 773.775.4009 Fax 773.776.4014 Email chicago@ciorbs.com	PLOT DATE = 10/5/2011	DATE - 9/2/11	REVISED -

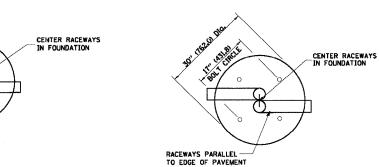
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	ST	RUCT	URE NO.	016-0	CHANNEL 0421 DETAILS
SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.

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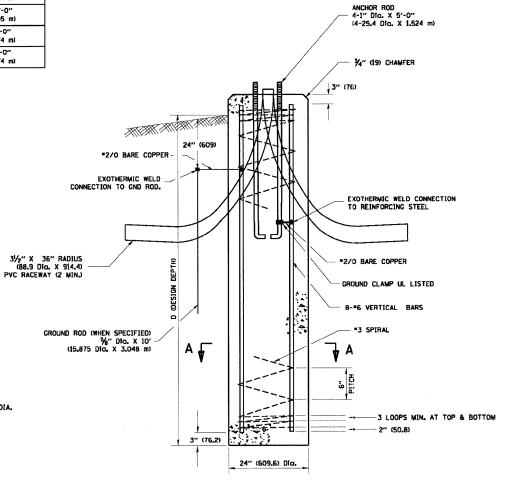




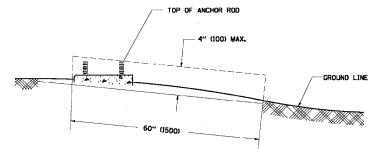
LIGHT POLE FOUNDATION DEPTH TABLE 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

	DESIGN DEPTH "D" OF FOUNDATION				
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE			
SOFT CLAY	13'-0"	15'-0"			
Ou = 0.375 TON/SQ. FT.	(3.96 m)	(4.57 m)			
MEDIUM CLAY	9'-6"	10'-9"			
Qu = 0.75 TON/SQ.FT	(2.09 m)	(3.23 m)			
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0'' (2 . 13 m)	8'-0" (2,44 m)			
LOOSE SAND	9'-0"	10'-0"			
Ø = 34°	(2.74 m)	(3.05 m)			
MEDIUM SAND	8'-3"	9'-0''			
Ø = 37.5°	(2,52 m)	(2,74 m)			
DENSE SAND	7'-9"	9'-0"			
Ø = 40°	(2.36 m)	(2,74 m)			

TOP VIEW



FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL

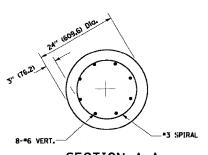
THREADED

%" T. X 4" Dig. (15.87 T. X 101.6 Dig.) WASHER, TACK WELDED

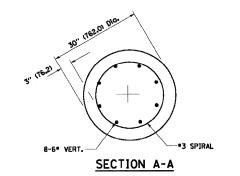
Dia.

ANCHOR ROD DETAIL

5" (127.0)



SECTION A-A



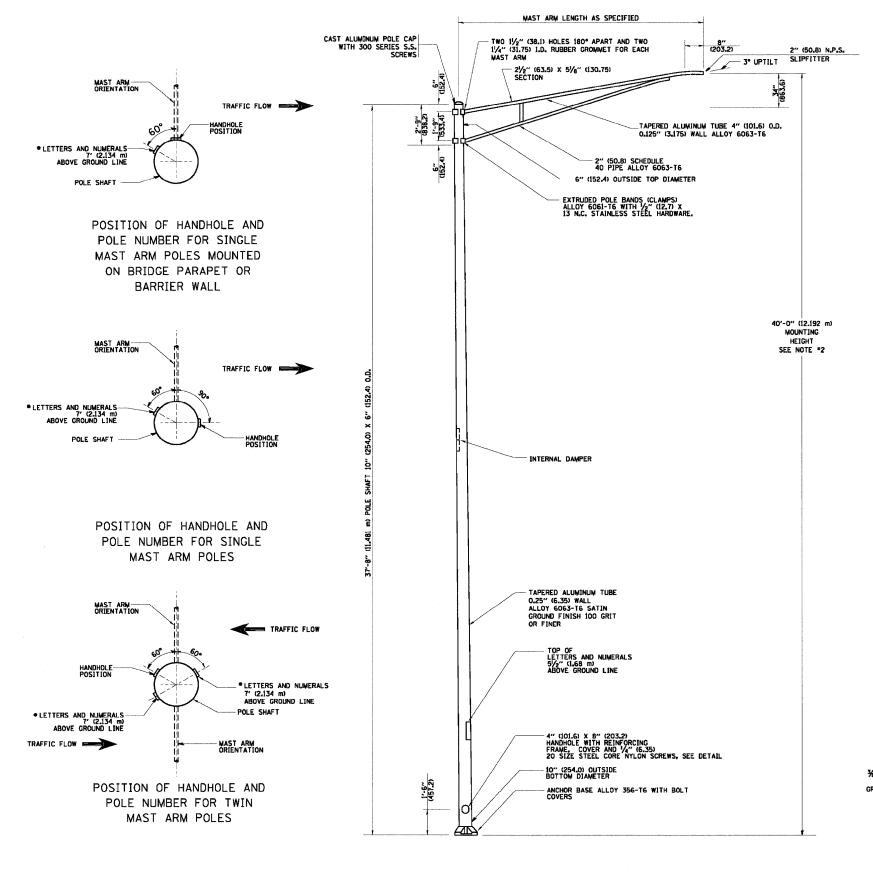
NOTES

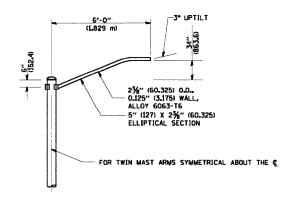
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (L.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-1N. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020,13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING WETHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152,4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

ILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 04-22-02	
:\diststd\22x34\be30l.dgn		DRAWN -	REVISED -	ĺ
	PLDT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	l
	PLOT DATE = 1/4/2008	DATE	PEVISED -	ĺ

RADIUS NOT LESS THAN
4 TIMES NOMINAL ROD DIA.

				,	
	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	F.A. SECTION COUNTY SHEETS NO.				
40 (12.192 M) 10 47 V2 (14.478 M) M.H. 13 (381 MM) DOLT CINGLE		BE-301	CONTRACT	NO.	
LE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		





6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

NOTES:

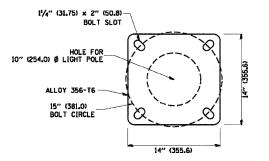
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) LINLESS OTHERWISE SHOWN.
- 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE IENON TO THE BOTTOM OF THE ANCHOR BASE.

 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- 4. THE INSTALLING CONTRACTOR WILL PROVIDE A
 ULLISTED GROUNDING CONNECTOR, BURNDY
 K2C23, T&B SP4DL OR APPROVED COUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT
 MAST ARMS AND LUMINAIRES.

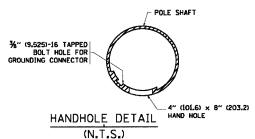
- MASI ARMS AND LUMINAMIES.

 6. LIGHT POLES WILL BE SET PLUMB ON THE
 FOUNDATION WITHOUT THE USE OF LEVELING
 NUTS, WASHERS OR SHIMS.

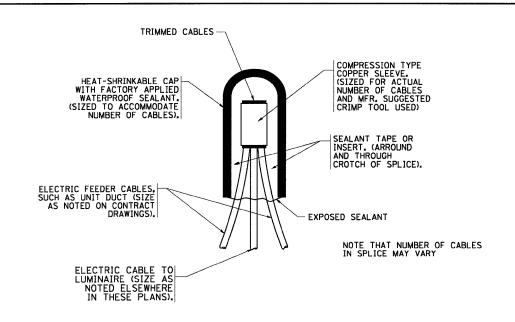
 7. LIGHTING UNIT IDENTIFICATION NUMBERS
 SHALL BE INSTALLED BEFORE THE LIGHTING
 UNIT 15 ENERGIZED.



LIGHT POLE BASE PLATE DETAIL 15 INCH (381.0) BOLT CIRCLE

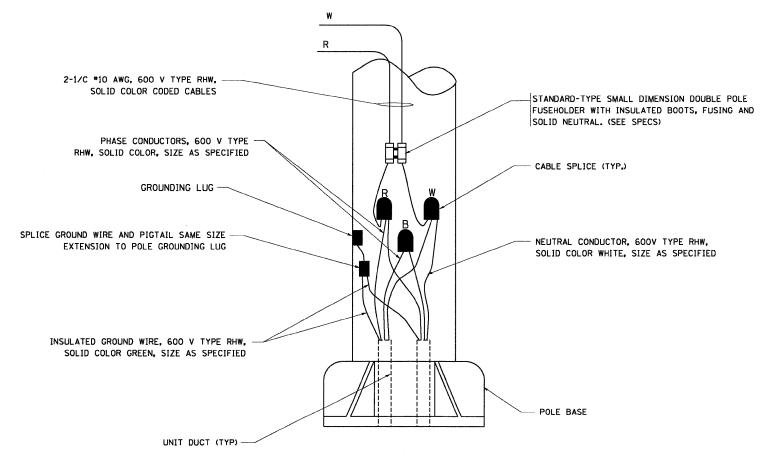


FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 09-06-00		ALUMINUM LIGHT POLE	F.A.	SECTION	COUNTY TOTAL SHEET NO.
W:\diststd\Z2x34\be401.dgn		DRAWN -	REVISED - R. TOMSONS 09-02-03	STATE OF ILLINOIS		350	3068 A-B-R-1	COOK 57 21
	PLOT SCALE = 50.000 '/ IN.	CHECKED ~	REVISED -	DEPARTMENT OF TRANSPORTATION	40'-0" (12.192 m) MOUNTING HEIGHT		BE-401	CONTRACT NO.
	PLOT DATE - 1/4/2008	DATE ~	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	



TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

FILE NAME =	USER NAME = geglienobt	DESIGNED -	REVISED - 08-08-03			MICC E	LECTRICAL	DETAILS		F.A.	SECTION	COUNTY	TOTAL S	HEET
W:\diststd\22x34\be702.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		MIIOG, EI		DETAILS		350	3068 A-B-R-1	СООК	57	22
	PLOT SCALE = 60.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			SHEET A				BE-702	CONTRAC	ſ NO.	==-
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. A			

12" (305) MAXIMUM WIDTH EXCEPT AS APPROVED BY THE ENGINEER

12" (305)

WARNING TAPE AS SPECIFIED

UNIT DUCT OR OTHER RACEWAY

WITH INTERNAL INSULATED EQUIPMENT GROUND WIRE.

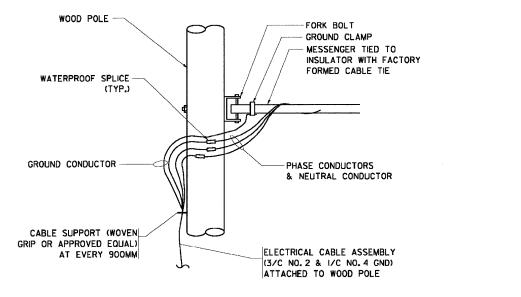
AND WIRING AS PER PLANS. COMPLETE

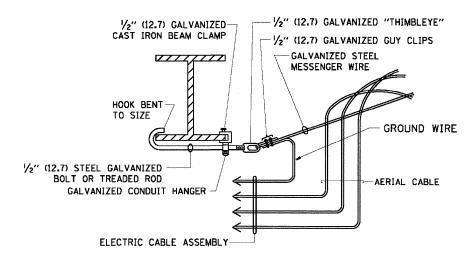
30" (762) MINIMUM COVER

(00)

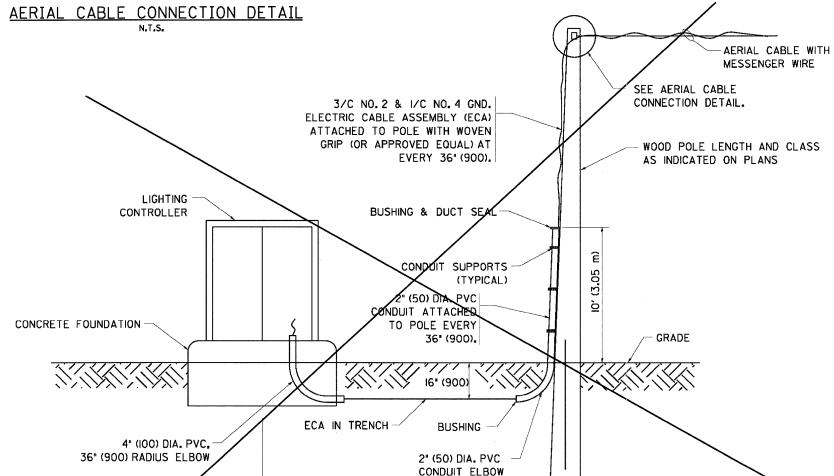
TYPICAL WIRING IN TRENCH DETAIL

N.T.S.





AERIAL CABLE ATTACHED TO STRUCTURE NOT TO SCALE



DISTANCE VARIES

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

NOTES:

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

COUNTY TOTAL SHEET NO. FILE NAME = DESIGNED REVISED 08-08-03 JSER NAME = gaglianobt SECTION TEMPORARY AERIAL CABLE INSTALLATION STATE OF ILLINOIS √:\dıststd\22x34\be801.dgn DRAWN REVISED 3068 A-B-R-1 COOK 57 CHECKED REVISED DEPARTMENT OF TRANSPORTATION BE-801 CONTRACT NO. SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. LOT DATE ~ 1/4/2008 DATE REVISED

Renchmark. SCOPE OF WORK Chiseled " " on top of N.E. Wingwall, Sta. 101+88, 30.7' Rt, Elev. 606.15 Scarify and place ${}^{3}8$ " epoxy overlay on bridge deck and approach slab. Existina Structure: Partial depth patching of deck. SN. 016-0421 Built in 1938 and rehabilitated in 1984 is a 3 span structure consisting of a 59'-2" steel beam Plug deck drains within 10' of substructure, clean and extend remaining deck drains. North approach span, a 270'-0" steel Warren truss, and a $42'-0_2'''$ steel beam south approach span. Total length Replace transverse expansion joints. = 378'-9" Bk to Bk. Abuts. The clear roadway width is 44'-0" with 5'-0" sidewalks on either side supported outside Repair sidewalk railing and brackets. of the traffic rail. North and south abutments are reinforced concrete abutments on spread footing. Pier 1 and Pier 2 Remove angle seats at stringer to floor beam connection points. are reinforced concrete bearing on limestone. Replace stay plates and lattices on the bottom chords. A navigation improvement project completed in 1963 included construction of concrete towers for a future lift Repair bottom truss chord and panel point gusset plates. tower, construction of a pier protection system and installation of navigation lights. Clean and paint all steel elements including bearings. Two lanes of traffic shall be maintained utilizing stage construction. 10. Caulk upper joints after painting. 11. Repair substructure. No Salvage 12. Replace existing navigation lighting system. € Brg. Truss -Pier 1 ► @ Brg. Truss © Pier 2 Exist. WF Beams (Composite) -- Exist. WF Beams (Composite) Back of - Back of North Abut. South Abut. L 10 F.弑.f L1 L2 L6 L8 19 Naviaation Navigation Navigation DESIGN STRESSES Light Light Natural Water Elevation FIELD UNITS 582.81 (from 1984) Proposed Construction Existing Construction f'c = 3,500 psi f'c = 3,500 psi (Deck)fy = 60,000 psi (Reinforcement) Reinforcing Steel fy = 36,000 psi (AASHTO, M270 Gr. 36) fs = 20,000 psi (Original)fy = 50,000 psi (AASHTO, M270 Gr. 50) Structural Steel fs = 18,000 psi (Carbon Steel, Original) WEST TRUSS ELEVATION fs = 24,000 psi (Silicon Steel, Original) fy = 36,000 psi (1984 rehab)(Looking East) South East Bumper Tree Removal (6 to 15 Units Dia.) -Transverse Joint Replacement, typ. 5'-0" Sidewalk & Brg. South Brg. North Face of Rail Navigation - Navigation Approach @ Pier 2 Approach @ Pier 1 Light to Face of Rail Light Brg. 🗜 Brg. 🚤 Navigation Light N. Abut. U1E U2E U3E S. Abut. 114F U9E Sidewalk \triangleleft 59°37′11" Sta. 99+91.50 - © of Roadway Bk. N. Abut. \triangleleft Bk. S. Abut. Cicero Ave. Sta. 101+89.50 Existing \Rightarrow Name Plate Sidewalk Ü6W U3V 115W Navigation Light DESIGN SPECIFICATIONS 5'-0" Sidewalk Face of Rail Navigation Navigation -- € Brg. Truss 2002 AASHTO Standard € Brg. Truss → 1'-92" Light Light 1'-92" Specifications for Highway Bridges 2'-12" to Face of Rail 1'-11" 59'-2" 10 panels @ 27'-0" = 270'-0" €-€ Bearing Truss Back of Back of Span LOADING HS-20-44 Span 2 Span 3 North Abut. South Abut. North West No allowance for future wearing surface. 57'-0" Bumper 378'-9" Back to back Abuts. Exist. Approach Exist. Approach TOP PLAN GENERAL PLAN & ELEVATION CICERO AVENUE (IL 50) OVER CAL-SAG CHANNEL PUBLIC WATERS F.A.P. RTE 350 - SEC. 3068 A-B-R-1 COOK COUNTY STATION 99+91.50 STRUCTURE NO. 016-0421 LOCATION SKETCH USER NAME = akhan DESIGNED - BWS REVISED **GENERAL PLAN & ELEVATION**

CIOPIDE GROUP, INC.
CONSULTING ENGINEERS
507 Navit Converted Average
5014 422 Chicago, Illinois 80566
Englis 402 Chicago, Illinois 80566
Extra 172.775.0414
Email chicago@dorba.com

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-0421
SHEET NO. S-1 OF S-27 SHEETS

Ī	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
I	350	3068 A-B-R-1	COOK	57	24
I			CONTRACT	NO.	60N88
I		ILLINOIS FED. A	D PROJECT		

GENERAL NOTES:

- 1. All new Structural Steel shall be AASHTO M270 Grade 36 unless otherwise noted.
- 2. All new fasteners shall be high strength bolts. Holes shall be ¹⁵₁₆" dia. for ⁷₈" dia. bolts, unless otherwise noted.
- 3. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts, unless otherwise noted.
- 4. Calculated weight of Structural Steel = 7,880 lbs. (M270 Grade 36) 8.360 lbs. (M270 Grade 50)
- 5. No field welding is permitted except as specified in the contract documents.
- 6. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
- 7. Reinforcement bars designated (E) shall be epoxy coated.
- 8. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete.

 Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 - As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding '4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 9. 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.
- 10. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 11. The Contractor shall obtain all necessary permits from the Coast Guard and shall be per Maintenance of Navigation Special Provision. All channel clearances and free navigation shall not be unreasonably interfered with. The Contractor shall submit a plan of operations to the Coast Guard which shall include a schedule of construction site activities.
- 12. Concrete Sealer shall be applied to the designated areas of the pier and abutment repairs and the proposed backwall.
- 13. Cleaning and painting of the existing structural steel shall be as specified in the special provisions for "Cleaning and Painting Existing Steel Structures." All existing steel shall be cleaned per Near White Blast Cleaning SSPC-SP10. All existing steel shall be painted according to the requirement of Paint System 1 OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Light Gray, Munsell No. 5B 7/1. The color of the final finish coat for truss members shall be Blue, Munsell No. 10B 3/6.
- 14. The Contractor shall submit calculations and details demonstrating the structural integrity of the bridge is maintained under the additional imposed loads of the containment system. See Special Provisions.
- 15. A minimum of 4 air monitors will be required to monitor abrasive blasting operations at the site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues".
- 16. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type 1. Cost included in Structural Steel Repair.
- 17. Any steel repair work on the steel superstructure except work on the railing posts, shall take place on the portion of the structure without stage construction traffic. For repair sequence, see notes on repair sheets.
- 18. Existing structural steel that will be in contact with new structural steel and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
- 19. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

INDEX OF SHEETS

- S-1 General Plan & Elevation
- S-2 General Notes & Bill of Material
- S-3 Stage Construction
- S-4 Deck Repair Plan
- S-5 Temporary Concrete Barrier for Stage Construction
- S-6 Joint Construction, North & South Abutments
- S-7 Joint Construction, Spans 1-2 & 2-3
- S-8 Preformed Joint Strip Seal
- S-9 Framing Plan
- S-10 Steel Repairs I
- S-11 Steel Repairs II
- S-12 Steel Repairs III
- S-13 Steel Repairs IV
- S-14 Steel Repairs V
- S-15 Steel Repairs VI
- S-16 Steel Repairs VII
- S-17 Steel Repairs VIII
- S-18 Steel Repairs IX
- S-19 Steel Repairs X
- S-20 Steel Repairs XI S-21 Steel Repairs XII
- 5-21 Sieel Repairs X
- S-22 Abutment Repairs S-23 Pier 1 Repairs
- S-24 Pier 2 Repairs
- S-25 Existing Truss Details I
- S-26 Existing Truss Details II
- S-27 Bar Splicer Assembly and Mechanical Splicer Details

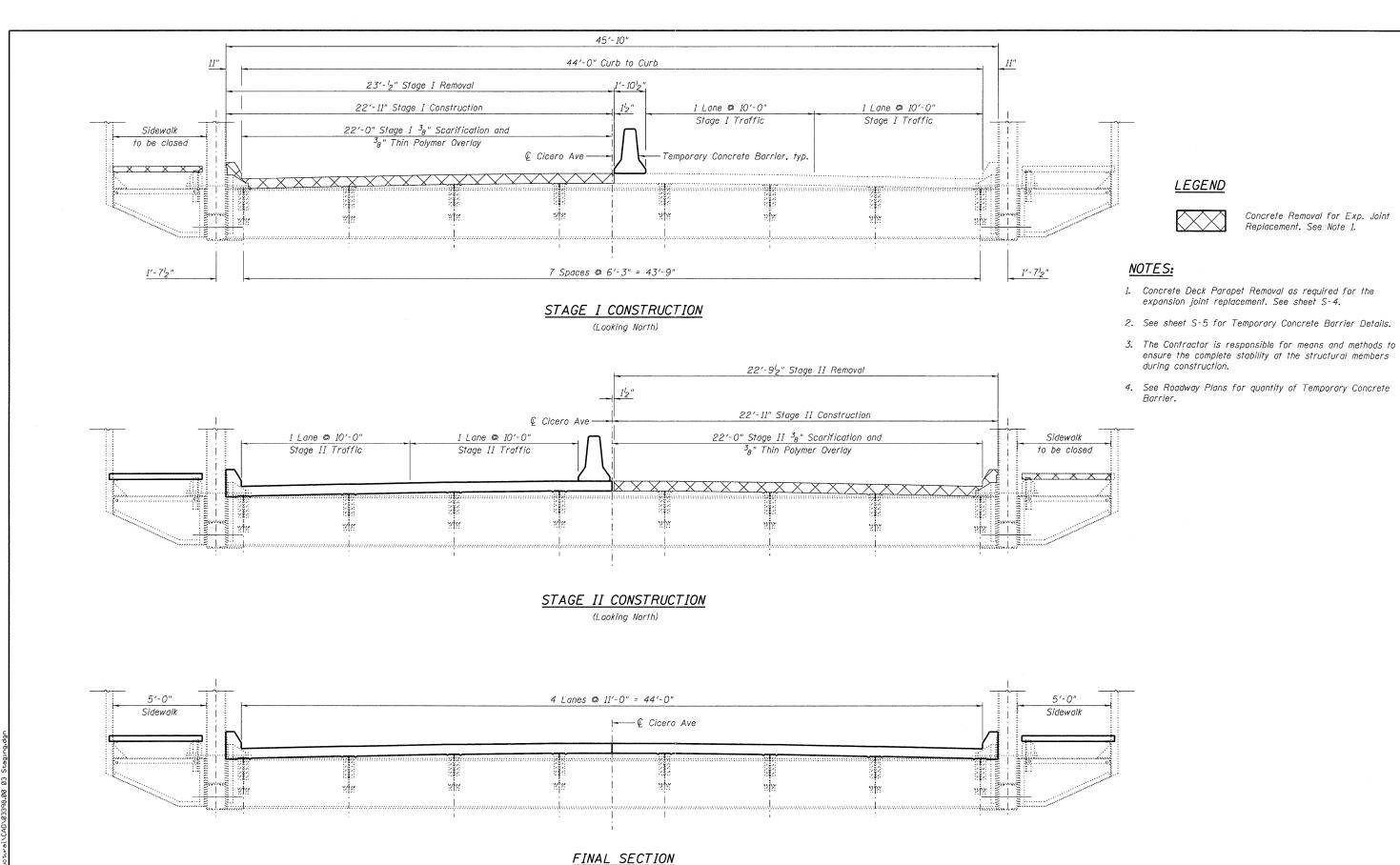
TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	SUB	SUPER	TOTAL
Concrete Removal	Cu Yd		26.1	26.1
Protective Shield	Sq Yd		60	60
Concrete Superstructure	Cu Yd		26.1	26.1
Protective Coat	Sq Yd		91	91
Reinforcement Bars, Epoxy Coated	Pound		6040	6040
Bar Splicers	Each		70	70
Preformed Joint Strip Seal	Foot		241	241
Concrete Sealer	Sq Ft	195		195
Epoxy Crack Injection	Foot	6		6
Floor Drain Extension	Each		24	24
Structural Steel Repair	Pound		16240	16240
Containment And Disposal Of Lead Paint Cleaning Residues	L Sum		1	1
Cleaning And Painting Steel Bridge No. 1	L Sum		1	1
Concrete Bridge Deck Scarification (3/8 Inch)	Sq Yd		2300	2300
Bridge Deck Thin Polymer Overlay 3/8"	Sq Yd		2300	2300
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	408		408
Plug Existing Deck Drains	Each		8	8
Deck Slab Repair (Partial)	Sq Yd		3	3
Silicone Joint Sealer, 1/2"	Foot		22	22
Rivet Removal And Replacement	Each		240	240

* Special Provision

G

GENERAL NOTES & BILL OF MATERIAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 016-0421	350	3068 A-B-R-1	СООК	57	25
SINUCIONE NO. 010-0421			CONTRACT	NO.	60N8
SHEET NO. S-2 OF S-27 SHEETS		ILLINOIS FED. A	ID PROJECT		



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iorba Group, inc.

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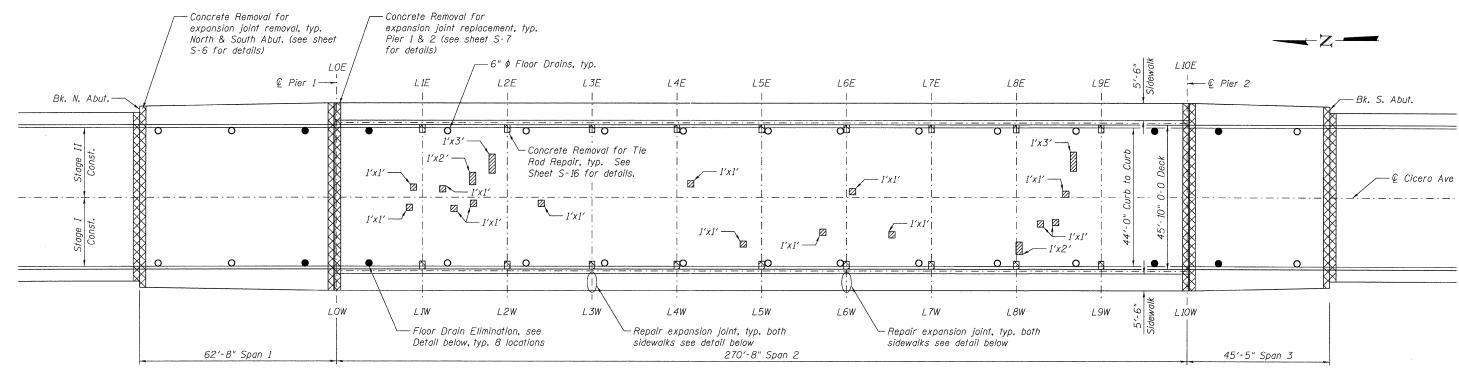
PLOT DATE = 9/9/2011

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DEPARTMENT	OF	TRANSPORTATION	

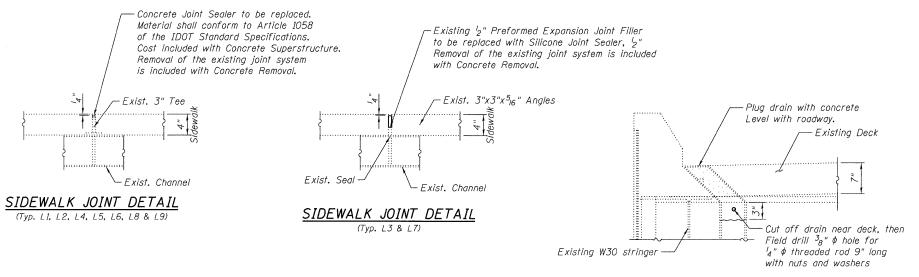
(Looking North)

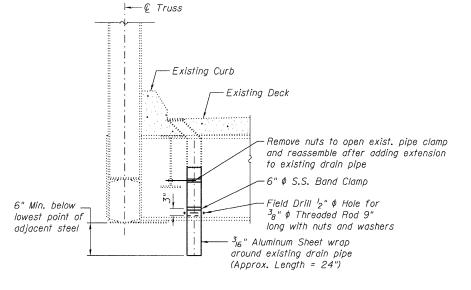
STAGE CONSTRUCTION	RTE.			
STRUCTURE NO. 016-0421	350	306		
SHEET NO. S-3 OF S-27 SHEETS				

	ILLINOIS FED. AID PROJECT						
_			CONTRACT	NO.	60N88		
	350	3068 A-B-R-1	COOK	57	26		
	RTE.	SECTION	COUNTY	SHEETS	NO.		



DECK PLAN





SECTION AT DRAIN

DRAIN ELIMINATION DETAIL

(8 thus)

FLOOR DRAIN EXTENSION

(24 Thus)

Cost of field drilling and all associated material or floor drain extension included with "Floor Drain Extension".

1. Deck condition survey performed January 2011.

- 2. Repairs should include but not be limited to the areas shown on the plans.

 The actual areas to be determined by the engineer at the time of construction.
- 3. The Engineer shall record the actual deck repair areas in order to document as-built condition for future reference.
- 4. For expansion joint replacement, see sheets S-6, S-7 & S-8.

NOTES:

- Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".
- 6. Scarification and overlay includes Bridge Deck and approach slabs.

LEGEND

Deck Slab Repair (Partial Depth)
Protective shield to be placed under all Partial
Depth Patches. Limits of Protective Shield
should extend from stringer to stringer and 2'
wider than patch in each direction.

Concrete Removal

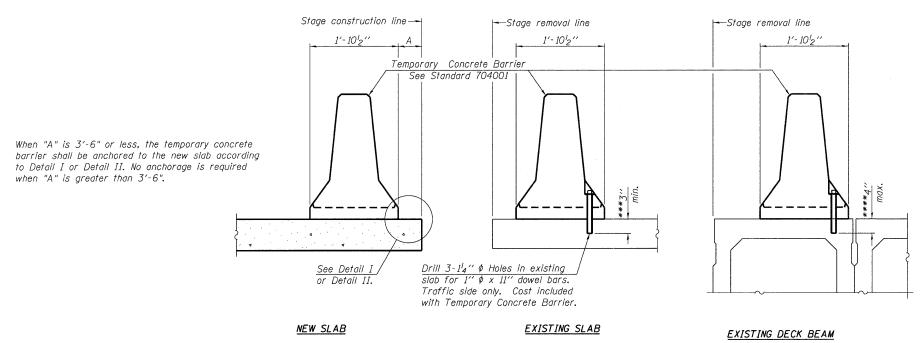
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Bridge Deck Scarification ³ 8"	Sq. Yd.	2,300
Bridge Deck Thin Polymer Overlay 38"	Sq. Yd.	2,300
Concrete Removal	Cu. Yd.	26.1
Floor Drain Extension	Each	24
Plug Existing Deck Drains	Each	8
Silicone Joint Sealer ¹ 2"	Foot	22
Deck Slab Repair (Partial Depth)	Sq. Yd.	3
Protective Shield	Sq. Yd.	60

USER NAME = ekhan DESIGNED - BWS REVISED
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CHECKED - AMK REVISED
PLOT SCALE = 1518 1.1 / 1n. DRAWN - RD REVISED
PLOT DATE = 9/9/2011 CHECKED - AMK REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN STRUCTURE NO. 016-0421 SHEET NO. S-4 OF S-27 SHEETS



NOTES

Detail I - With Bar Splicer or Couplers:

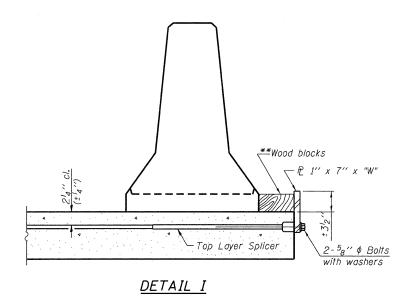
Connect one (1) I'' x 7' 'x ''W'' steel P to the top layer of couplers with 2-58" \$\phi\$ bolts screwed to coupler at approximate & of each barrier panel.

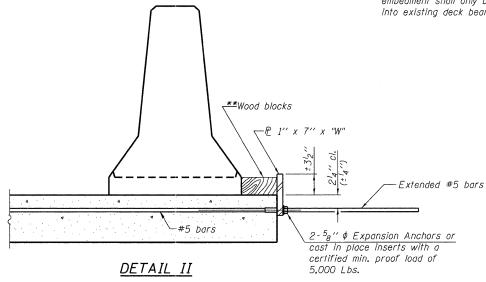
Detail II - With Extended Reinforcement Bars: Connect one (1) I" x 7" x "W" steel ℓ to the concrete slab or concrete wearing surface with 2^{-5}_8 " ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate & of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

- *** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- **** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.





Top bars Detail I spacing Detail II ← £ 7₈ ′′ ¢ Holes *£ 1" x 1½" Notch

STEEL RETAINER P 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

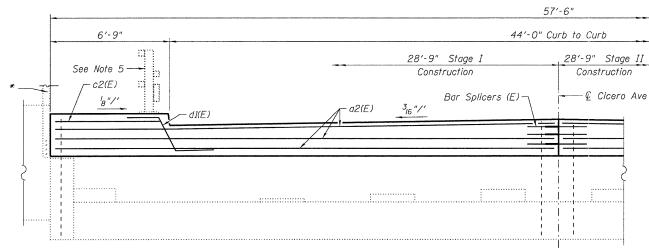
7-1-10

	USER NAME = akhan	DESIGNED - BWS	REVISED -	
Group, Inc.		CHECKED - AMK	REVISED -	
3 ENGINEERS erland Avenue go, Illinois 60666	PLOT SCALE = 0:1 ':' / in.	DRAWN - RD	REVISED -	
orba.com	PLOT DATE = 9/9/2011	CHECKED - AMK	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 016-0421 SHEET NO. S-5 OF S-27 SHEETS

COUNTY TOTAL SHEE NO. SECTION 3068 A-B-R-1 COOK 57 28 350 CONTRACT NO. 60N88 ILLINOIS FED. AID PROJECT

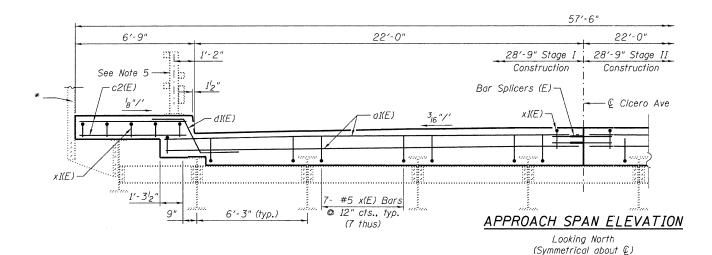
R-27

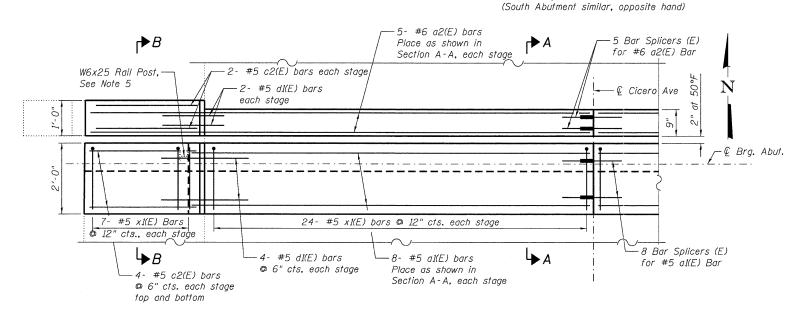


* Railing to be removed, stored and reattached as needed. Removal and reattachment of Railing included in Concrete Removal cost.

NORTH ABUTMENT ELEVATION

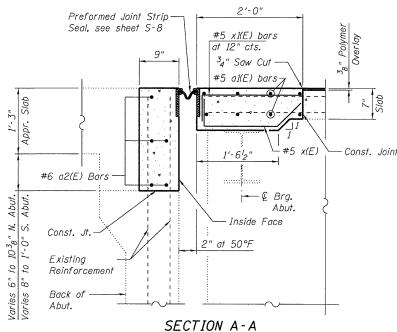
Looking North (Symmetrical about ©) (South Abutment similar, opposite hand)



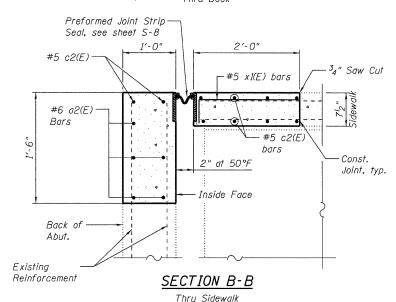


NORTH ABUTMENT PLAN

(Symmetrical about ₤) (South Abutment similar by rotation)



SECTION A-A Thru Deck



NOTES:

- 1. Work this sheet with sheets S-3 and S-7.
- Existing reinforcement shown should be blast cleaned, straightened, and incorporated into new construction. Cost included with Concrete Removal.
- 3. Bar bending details shown on sheet S-7.
- 4. For Joint Detail see sheet S-8.
- Traffic Rail Posts to be removed, stored and replaced. Drill and grout 4- 1" φ x 12" Anchor Bolts into traffic rail post base plate after post is relocated. Weld NE & SW Traffic post to existing Base Plate. Cost included in cost of Concrete Superstructure.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other then 50°F.
- 7. Concrete Sealer to be applied to the inside face of proposed backwall.
- 8. Perimeter of concrete removal areas shall be saw cut 3/4" prior to removal of the concrete.

BILL OF MATERIAL

Two Abutments

Bar	No.	Size	Length	Shape
a ₁ (E)	32	#5	23'-7"	
a2(E)	20	#6	28′-5"	
c2(E)	40	#5	6′-5"	
d₁(E)	24	#5	6'-1"	
x(E)	98	#5	2'-2"	/
x1(E)	124	#5	2'-2"	
Concrete	Superstru	ıcture	Cu. Yd.	12.9
Bar Splic	ers		Each	26
Reinforce	ment Bar	5,	Pound	2.570
Ероху Со	ated		Found	2,570
Protective Coat		Sq. Yd.	37	
Concrete	Sealer		Sq. Ft.	173

Ciorba Group, Inc.

CONSULTING ENGINEERS

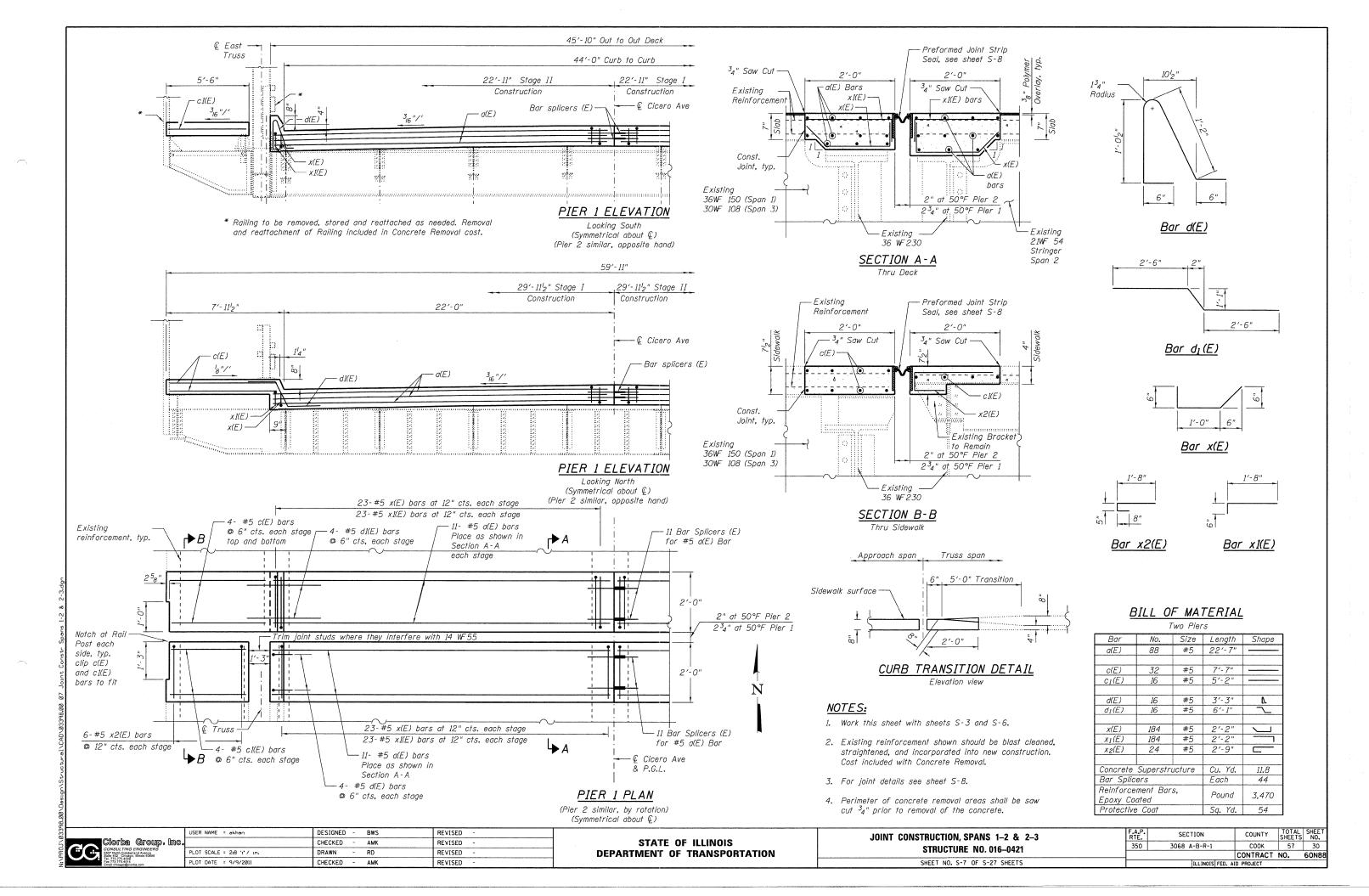
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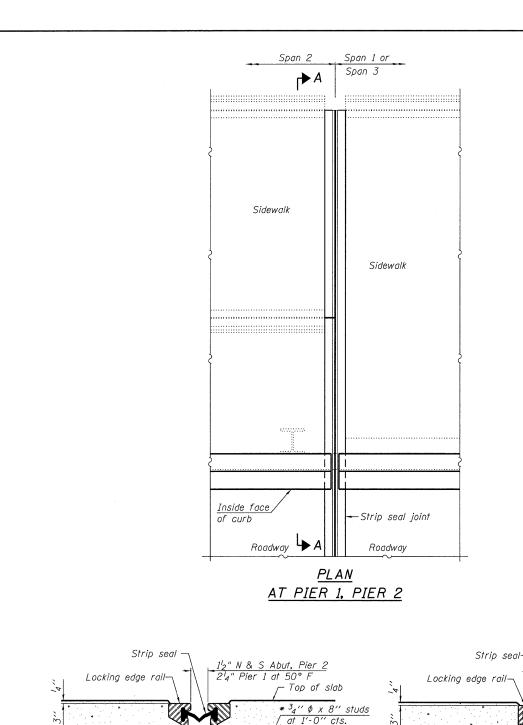
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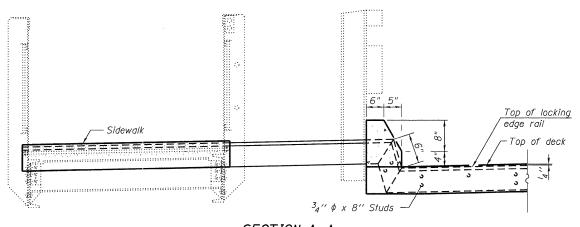
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT CONSTRUCTION, NORTH AND SOUTH ABUTMENTS
STRUCTURE NO. 016-0421

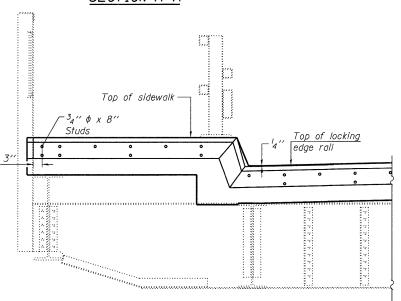
SHEET NO. S-6 OF S-27 SHEETS





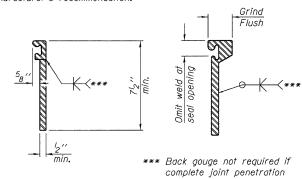


SECTION A-A



TYPICAL END TREATMENT AT SIDEWALK

Shorter plates with a single row of studs at 12" cts. may be necessary on sidewalks which are shallower than 9". See manufacturer's recommendation.



is verified by mock-up. LOCKING EDGE RAIL SPLICE

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

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

The manufacturer's recommended installation methods shall be followed.

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

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines

shall be $\frac{3}{16}$ ", sealed with a suitable sealant.

SECTION THRU ROLLED RAIL JOINT

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

2³4" N & S Abut, Pier 2 3¹2" Pier 1 at 50° F

 7_{16} " ϕ holes at 4'-0" cts. for 3_8 " ϕ bolts. All bolts shall be burned, sawed,

or chipped off flush with the plates after forms are removed, typ.

SECTION THRU

1¹₂" N & S Abut, Pier 2

- Top of slab

at 1'-0" cts.

*3₄'' \$ x 8'' studs

at 2'-0" cts.

21₄" Pier 1 at 50° F

LOCKING EDGE RAILS

WELDED RAIL

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	241

 $^{7}_{16}$ " ϕ holes at 4'-0" cts. for $^{3}_{8}$ " ϕ

or chipped off flush with the plates

after forms are removed, typ.

bolts. All bolts shall be burned, sawed,

DESIGNED BWS REVISED CHECKED -AMK REVISED PLOT SCALE = @:1 's" / in. DRAWN REVISED REVISED

* ³₄′′ ¢ x 8′′ studs

at 2'-0" cts.

<u>2" N & 5^{*} Abut, Pier</u> 2 23₄" Pier 1 at 50° F

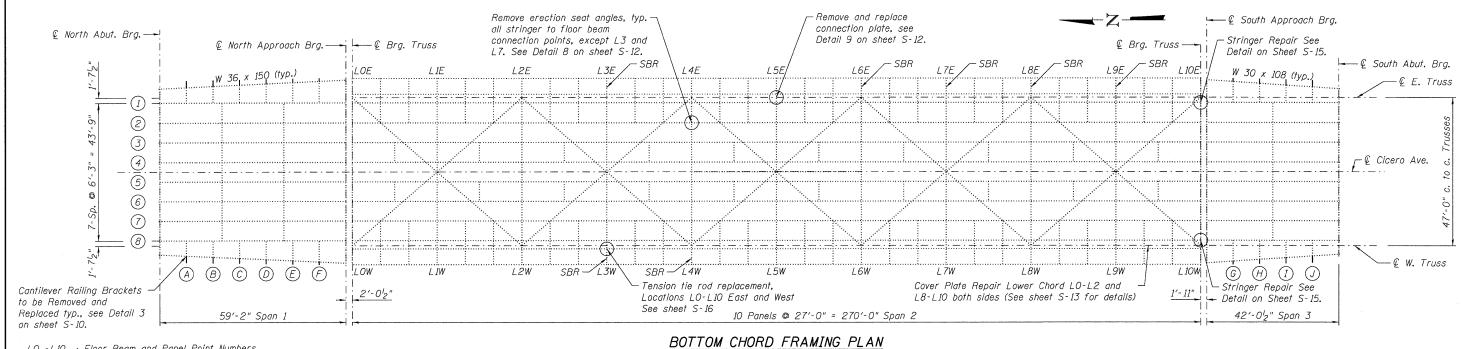
> STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

ROLLED

EXTRUDED RAIL

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 016-0421 SHEET NO. S-8 OF S-27 SHEETS

TOTAL SHEE SHEETS NO. SECTION 57 31 350 3068 A-B-R-1 СООК CONTRACT NO. 60N88 ILLINOIS FED. AID PROJECT



LO -L10 : Floor Beam and Panel Point Numbers

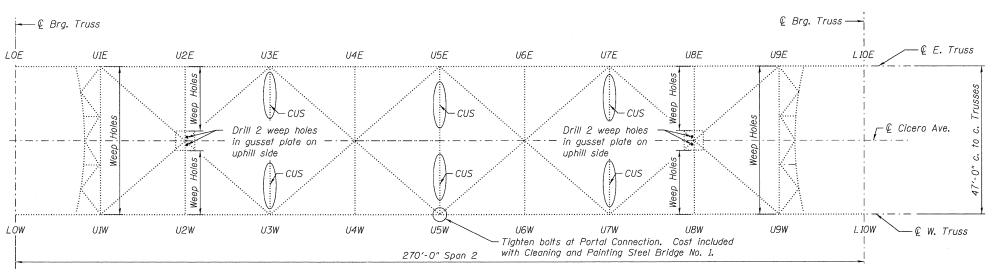
1)-(8): Stringer Numbers

(A) - (J): Cantilever Railing Bracket

LEGEND:

CUS - Caulk Uphill Side (Typ. Panel Points 3, 5, 7) See Caulking Detail on sheet S-14

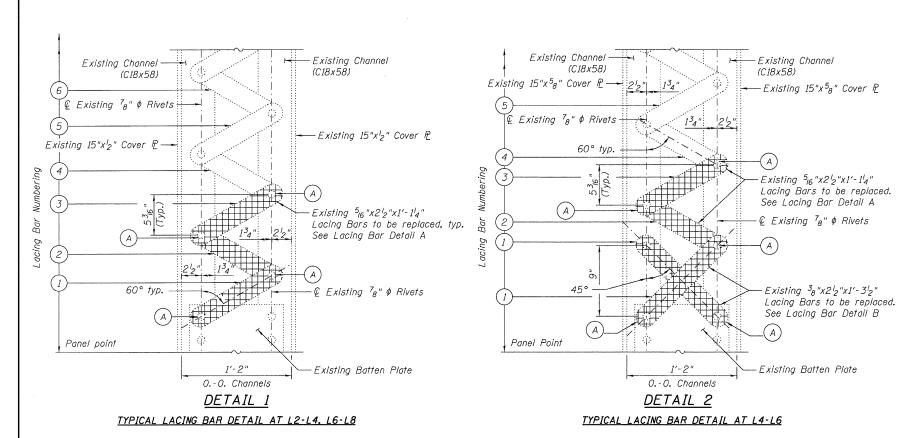
SBR - Sidewalk Bracket Repair See Sheet S-15 for locations and details



TOP CHORD FRAMING PLAN

Note: See Weep Hole Details on sheet S-13

333		USER NAME = akhan	DESIGNED - BWS	REVISED -		FRAMING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET
5	Ciorba Group, Inc.		CHECKED - DL	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 016-0421	350	3068 A-B-R-1	соок	57	. 32
PRC	CONSULTING ENGINEERS 5507 North Cumberland Avenue Sulte 402 Chicago, Illinois 60656 Tol. 773.773.4009	PLOT SCALE = 15:0 ':' / 10.	DRAWN - LVH	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO.	60N88
ź	Fax 773.775.4014 Email chicago@ciorba.com	PLOT DATE = 9/9/2011	CHECKED - DL	REVISED -		SHEET NO. S-9 OF S-27 SHEETS		ILLINOIS FED.	AID PROJECT		



LACING BAR RETROFIT AT LOWER CHORDS

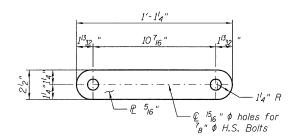
(Retrofit Applied Only to Bottom Lacing Bars of Lower Chord)

Remove the lacing bars and existing $^{7}8$ " ϕ rivets from the surface of the channel flange. Existing rivets which are adjacent to lacing bars to remain in place shall not be burned off. Existing rivets which are adjacent to lacing bars to be removed may be burned off. All rivet removal shall be in accordance with the Special Provision for Structural Steel Repair.

LACING BARS TO BE REPLACED

LOCATION	STARTING FROM PANEL POINT	LACING BAR NUMBER*
L4E-L5E	L5E	1-3, 8-16, 32-38, 41
L5E-L6E	L5E	1, 2, 7, 9, 18
L6E-L7E	L7E	12-19, 26, 37, 42, 48
L7E-L8E	L8E	1-8, 10, 18, 22, 26, 28, 30, 31

*Lacing Numbering starts at Panel Point indicated. Lacing Bar numbered "1" in location L4-L5 or L5-L6 include both crossed lacing bars next to panel point.



LACING BAR DETAIL A (50 Required)

LACING BAR DETAIL B

1'-32"

1'-0"16

Ф

(4 Required)

Field drill holes in plate using holes in existing channels as templates, or shop drill based on field requirements.

15 ₁₆" ϕ holes for 7 8" ϕ H.S. Bolts, typ. Indicated spacings are for information only. Field Drill Holes in new plate using holes in existing angles as template, or shop drill based on field measurements. -Existing L 3^{1}_{2} "x 4"x $^{3}_{8}$ " Existing 7¹2" Concrete Sidewalk Existing Railing Post 2L's 5"x3^l₂"x³₈" to remain -Existing Steel Beam 36 WF 150 Existing $^{7}_{8}$ " ϕ H.S. Bolt to be Removed and replaced, typ. -Existing Channel C10x20 m 6 1/2" 12" 38" Thick Plate to ** = 2 spaces @ 2³4" = 5¹2" be Removed and Replaced in kind. See Table for DETAIL 3 dimensions.

Approach span Cantilever Railing Bracket Repairs

TABLE - BRACKET DIMENSIONS

BRACKET	Α	В
A	2' - 71/2"	2' - 3'2"
В	2' - 4"	2' - 0"
С	2' - 012"	1' - 8 ¹ 2"
D	1' - 9"	1' - 5"
E	1' - 5 ³ 8"	1' - 1 ³ 8"
F	1' - 1 ⁷ 8"	0' - 9 ⁷ 8"
G	1' - 3 ⁵ 8"	0' - 11 ⁵ 8"
Н	1' - 8 ⁷ 8"	1' - 4 ⁷ 8"
I	2' - 214"	1' - 10 ¹ 4"
J	2' - 7 ^l 2"	2' - 3 ^l 2"

See Framing Plan for location. All new brackets are $\frac{3}{8}$ " thick plates.

NOTES:

- 1. The Contractor shall verify all dimensions in the field before ordering lacing bars.
- 2. Only two lacing bars may be removed at a time. When lacing bars are removed, the proposed lacing bars must be in place and the bolts tightened before additional lacina bars are removed.
- 3. Repairs should include but not be limited to the areas shown. The actual areas to be determined by the Engineer at the time of Construction.
- 4. If lacing bar to be replaced is under lacing bar to remain, the Contractor shall take care when removing the rivet so as to not to damage the top lacing bar to remain in place. If the top lacing bar is damaged, the cost of replacing the lacing bar will be at the Contractor's expense.
- 5. Cost of materials, drilling holes and removing rivets to make structural steel repairs are included in pay item for "Structural Steel Repair".

DESIGNED - BWS iorba Group, inc CHECKED - AMK REVISED PLOT SCALE = 0:4 ':" / 10. DRAWN ~ IVH REVISED PLOT DATE = 9/9/2011 CHECKED - AMK REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Φ

15₁₆ " \$\phi\$ holes for

78" Ø H.S. Bolts

LEGEND:

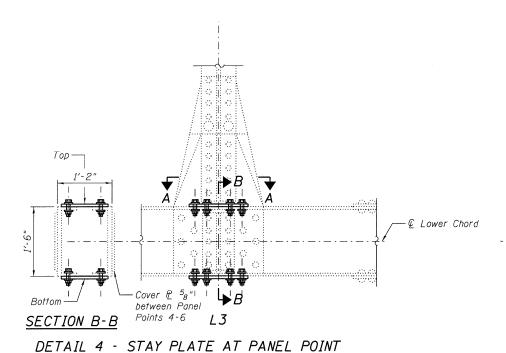
Members to be removed and replaced.

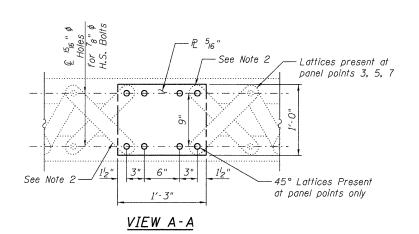
SECTION STEEL REPAIRS I 350 3068 A-B-R-1 STRUCTURE NO. 016-0421 CONTRACT NO. 60N8 SHEET NO. S-10 OF S-27 SHEETS

TOTAL SHEE SHEETS NO.

57 33

COUNTY

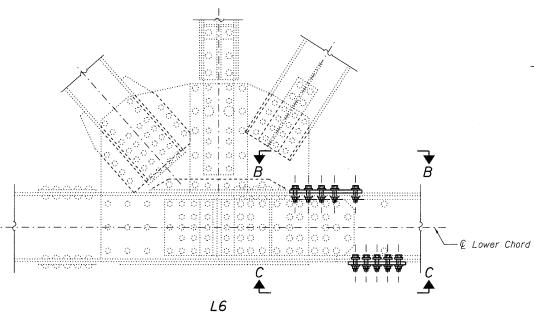




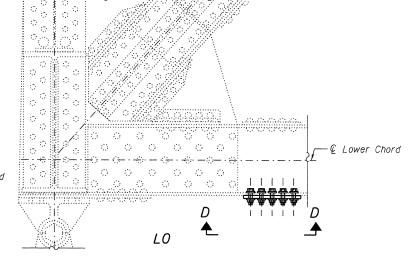
(L5, L7 similiar)



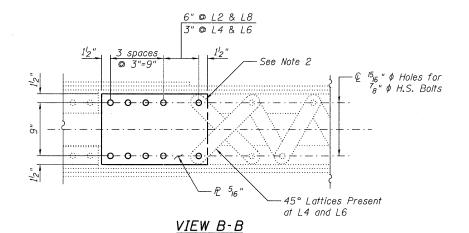
- 1. All dimensions shall be verified in the field before ordering stay plates.
- 2. All plate replacements shown are "in-kind". Existing plates to be removed and replaced, not shown for clarity.
- 3. Remove the stay plates and existing $^{7}_{8}$ " ϕ rivets from the surface of the channel flange. Existing rivets which are adjacent to lacing bars to remain in place shall not be burned off. Existing rivets which are adjacent to lacing bars to be removed may be burned off. All rivet removal shall follow Structural Steel Repair Special Provision.
- 4. Repairs should include but not be limited to the areas shown. The actual areas to be determined by the Engineer at the time of construction.
- 5. Cost of materials, drilling holes, and removing rivets to make structural steel repairs are included in the cost of "Structural Steel Repair".

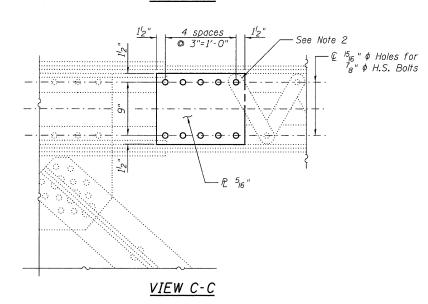


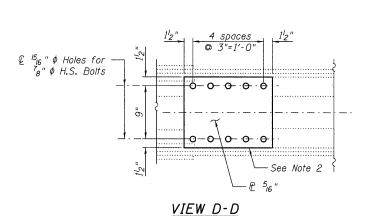
DETAIL 5 - STAY PLATE AT PANEL POINT
(L8 similar)



DETAIL 6 - STAY PLATE AT PANEL POINT





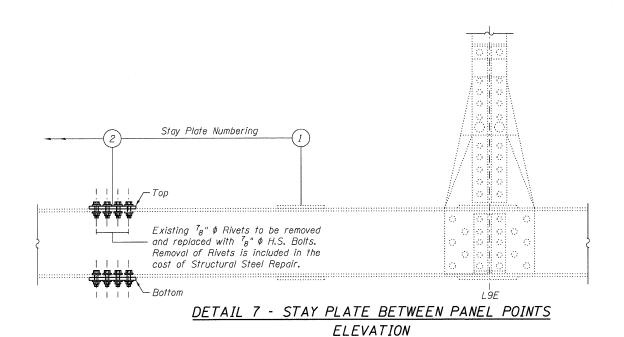


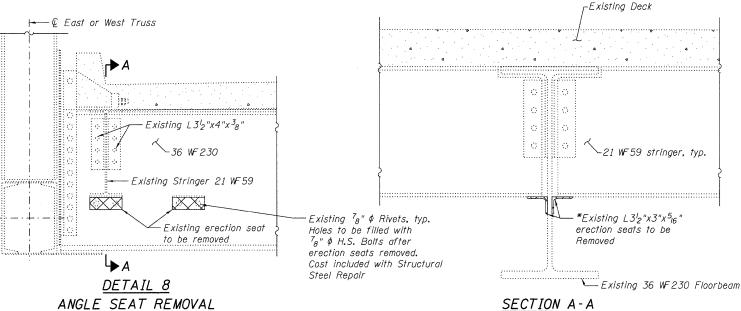
<u>PANEL POINT</u> STAY PLATES TO BE REPLACED

PANEL POINT	TOP/BOTTOM	DETAIL
LOE	Bottom	6
L3E	T0P	4
L5E	TOP	4
L6W	BOTTOM	5
L7E	TOP	4
L8E	TOP	5
L8W	ВОТТОМ	5

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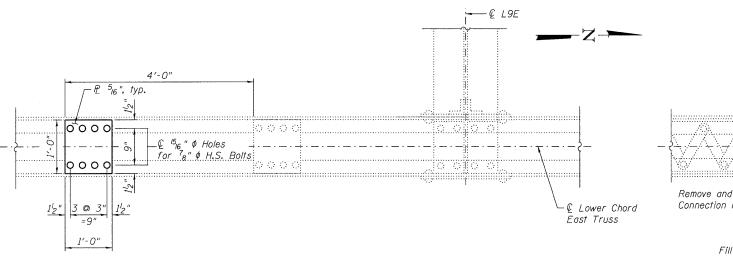
STEEL REPAIRS II STRUCTURE NO. 016-0421 SHEET NO. S-11 OF S-27 SHEETS





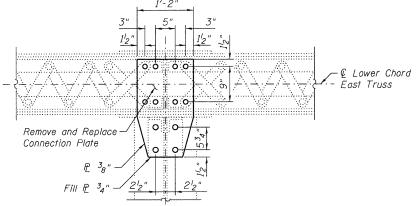
SECTION A-A

*Existing rivets adjacent to erection seats to be removed may be burned off. All rivet removal shall follow Structural Steel Repair Special Provision. Cost included with Structural Steel Repair.



PLAN (Top & Bottom)

(Looking West)



--- € L5 E

DETAIL 9 CONNECTION PLATE REPAIR AT L5E

(Underside Plan)

(144 Thus)

NOTES:

- 1. Repairs should include but not be limited to the areas shown. The actual areas to be determined by the Engineer at the time of construction.
- 2. All plate replacements shown are "in-kind". Existing plates to be removed and replaced, not shown for clarity.
- 3. Holes in stay plates and connection plates shall be subpunched or subdrilled 13 ₁₆ " ϕ and reamed in the field to 15 ₁₆ " ϕ for ⁷8" \$ H.S. bolts.
- 4. One stay plate shall be removed and replaced at a time. When stay plates are removed, the proposed stay plate must be in place and the bolts tightened before additional stay plates are removed.

STAY PLATES TO BE REPLACED BETWEEN PANEL POINTS

Location	Starting From Panel Point	Stay Plate Number	
L9E-L10E Top	L9E	2, 3, 4	
L9E-L10E Bottom	L9E	4, 5	
	(5 Thus)		

LEGEND

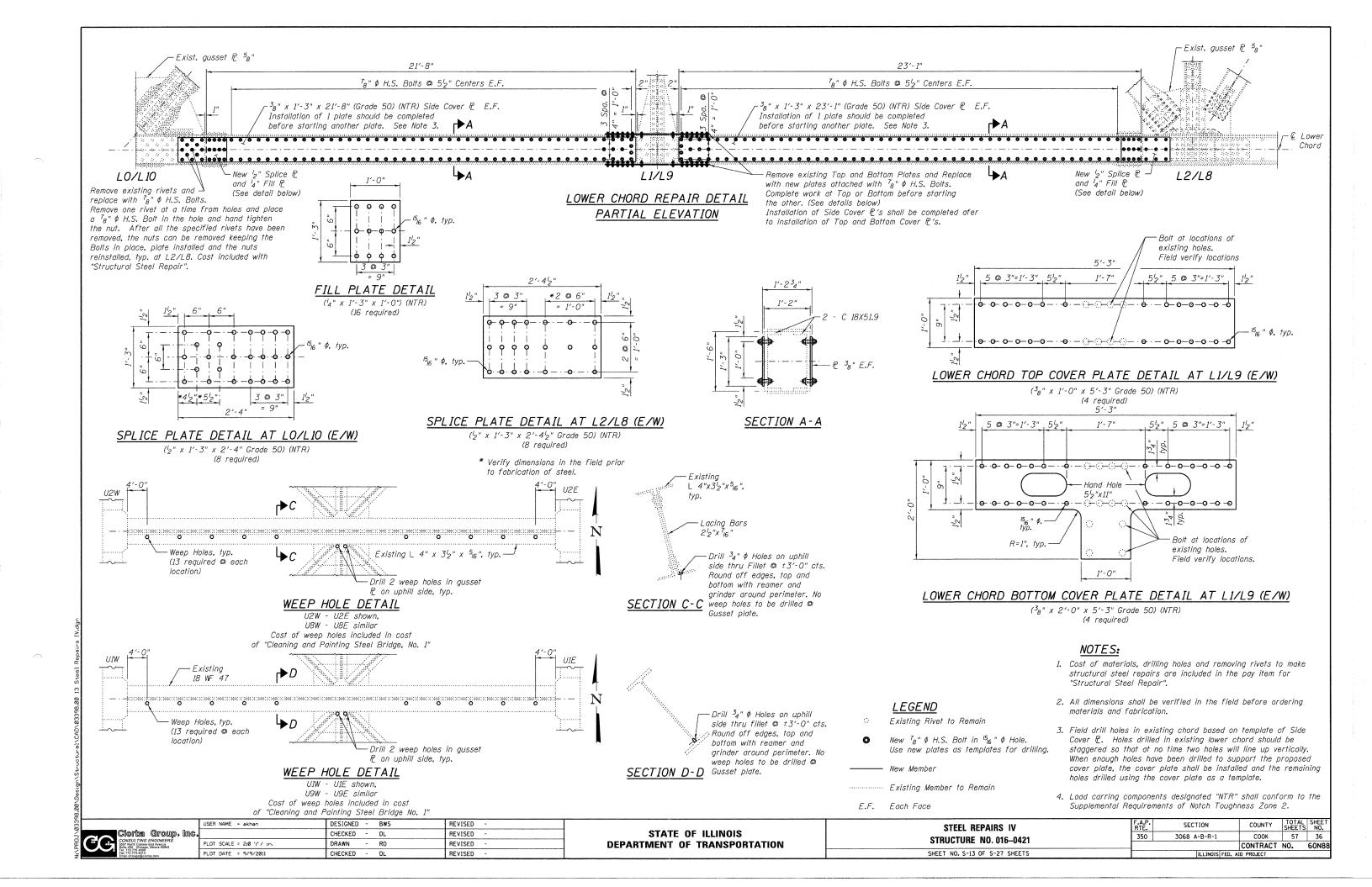
Existing to be removed

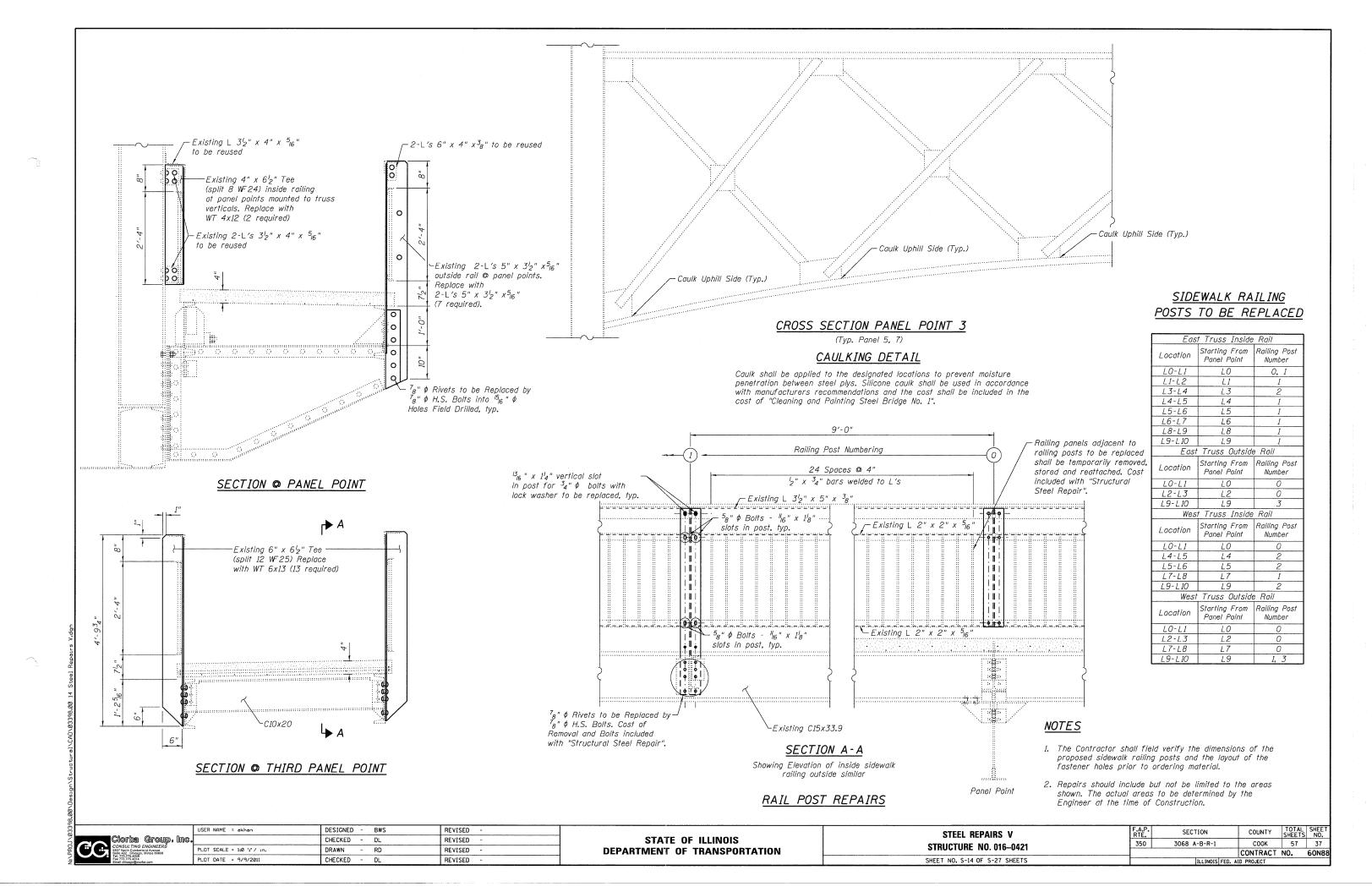
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p. Inc.		CHECKED -	DL	REVISED -	
s	PLOT SCALE = 1:0 ':" / in.	DRAWN -	RD	REVISED -	
	PLOT DATE = 9/9/2011	CHECKED -	DL	REVISED -	

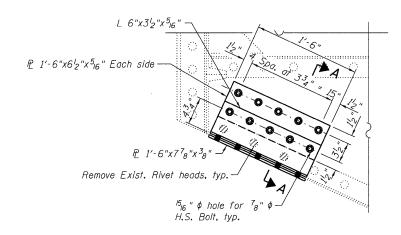
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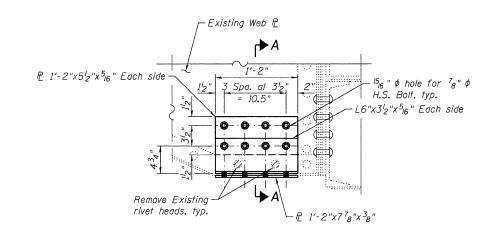
STEEL REPAIRS III						
STRUC	TURE N	0. 016–0)421			
SHEET NO	S-12 OF	S-27 SH	FETS			

SECTION 3068 A-B-R-1 COOK 57 35 350 CONTRACT NO. 60N88









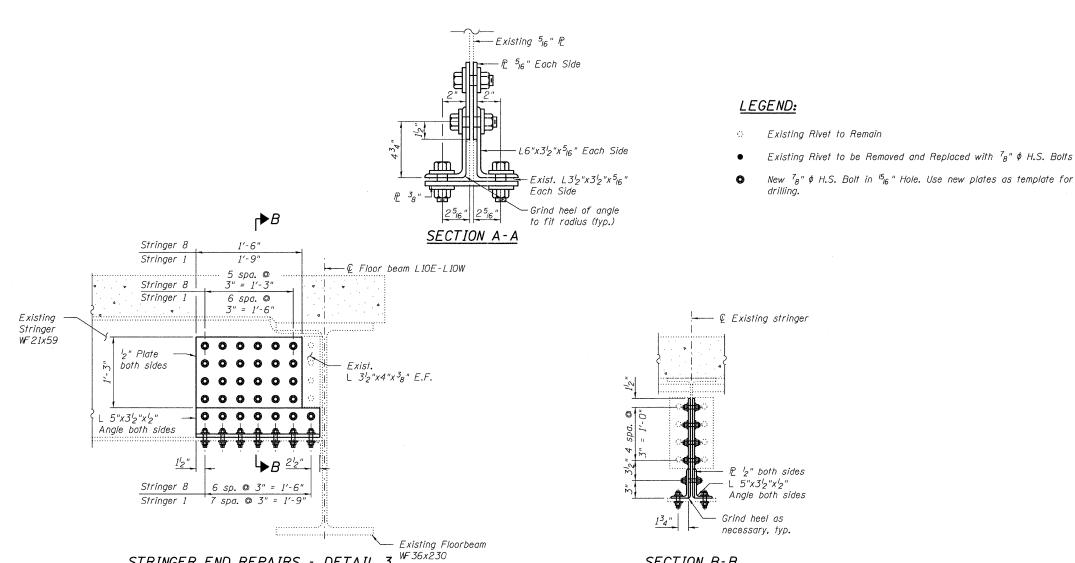
SIDEWALK BRACKET REPAIR - DETAIL 1

Location L9E

SIDEWALK BRACKET REPAIR - DETAIL 2

Locations L3E, L6E, L7E, L8E, L3W, L4W

SECTION B-B

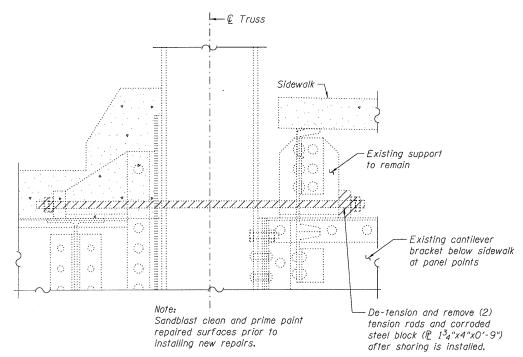


STRINGER END REPAIRS - DET	AIL 3	3
Field Drill Holes in stringer using holes in plates as templates		

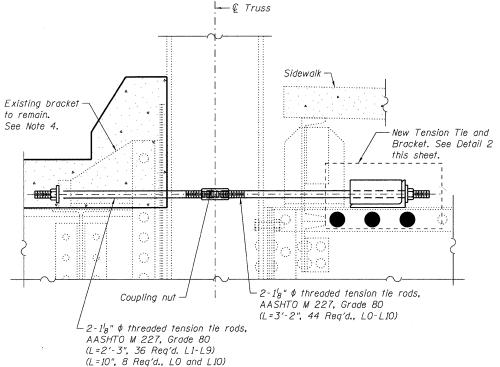
	USER NAME = akhan	DESIGNED - AMK	REVISED -	
Ciorba Group, Inc.		CHECKED - DL	REVISED -	
CONSULTING ENGINEERS 5507 North Cumberland Avenue Suite 402 Chicago, Illinois 60666 Tel. 773.775.4009 Fax 773.775.4004	PLOT SCALE = 1:0 ':" / in.	DRAWN - LVH	REVISED -	
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@clorbs.com	PLOT DATE = 9/9/2011	CHECKED - SCD	REVISED -	

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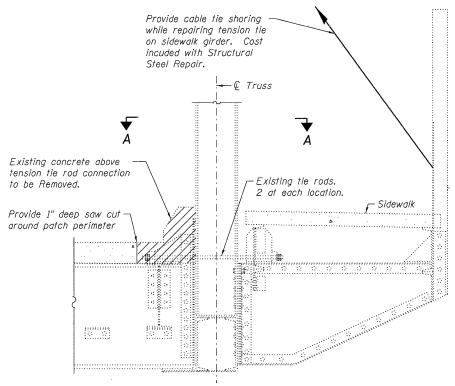
STEEL REPAIRS VI	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
STRUCTURE NO. 016-0421	350	3068 A-B-R-1	COOK	57	38
31NUCTORE NO. 010-0421			CONTRACT	NO.	60N8
SHEET NO. S-15 OF S-27 SHEETS		ILLINOIS FED.	AID PROJECT		



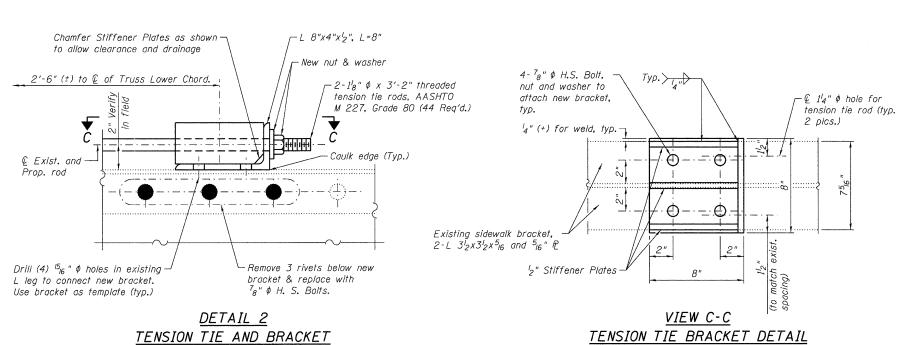
VIEW B-B **EXISTING CONDITIONS**



VIEW B-B PROPOSED CONDITION At LO-L10 East and West



DETAIL 1 EXISTING SIDEWALK BRACKET



NOTES:

(Sidewalk Side)

- 1. All dimensions shall be verified in the field before ordering materials.
- 2. All rivet removal shall follow Structural Steel Repair Special Provision.
- 3. Cost of materials, drilling holes, and removing rivets to make structural steel repairs are included in the cost of Structural Steel Repair.
- 4. The Engineer will inspect the existing bracket after concrete removal. The existing bracket shall be replaced in-kind if the Engineer deems that there is significant deterioration. This work shall be paid for as Structural Steel Repair.

BILL OF MATERIAL

← @ Floor beam

B◀n

1'-2"

VIEW A-A

LIMITS OF CONCRETE REMOVAL

(For Tension Tie Rod repair)

 $B \blacktriangleleft J$

Carefully chip out existing

connection. Do not damage connection. Paid as Concrete

Removal.

Concrete curb

Edge of curb

concrete above tension tie rod

Remove and replace tie rods -

per Tension Tie Rod Repair

Existing connection -

(see Details this sheet)

to remain

Replace with new Class BS

deck after repair

Provide 1" deep saw cut

around patch perimeter

Floor beam width

 $(Below)=1'-4\frac{1}{2}" (\pm)$

· © Truss

concrete to depth of scarified

Sidewalk Side

Bridge Deck Side

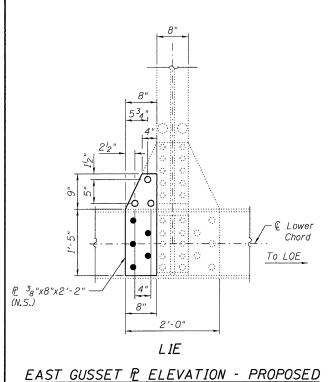
	ITEM	UNIT	QUANITY
Concrete	Superstructure	Cu. Yd.	1.4

DESIGNED - AMK REVISED USER NAME = akhan REVISED CHECKED PLOT SCALE = 1:0 ':" / in. DRAWN - LVH REVISED PLOT DATE = 9/9/2011 CHECKED - BWS REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

STEEL REPAIRS VII STRUCTURE NO. 016-0421 SHEET NO. S-16 OF S-27 SHEETS

COUNTY TOTAL SHEE SHEETS NO. SECTION 350 3068 A-B-R-1 COOK 57 39 CONTRACT NO. 60N88 ILLINOIS FED. AID PROJECT

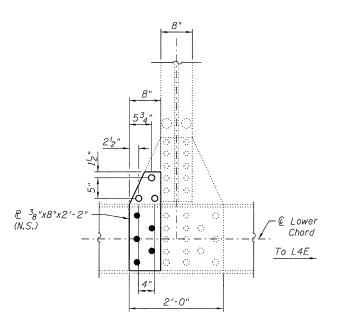


AT JOINT LIE

EAST TRUSS

(Looking West)

Fill P 12"x8"x1'-4" (N.S.) $P_{s}^{3} "x1' - 0"x1' - 4$ (N.S.) -€ Lower Chord To L1E



L2E

EAST GUSSET & ELEVATION - PROPOSED

AT JOINT L2E EAST TRUSS

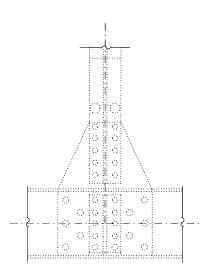
(Looking West)

L5E

EAST GUSSET & ELEVATION - PROPOSED

AT JOINT L5E EAST TRUSS

(Looking West)



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0 | 0 0000 به . د به این د چ 0.0.00 0 0

EAST GUSSET & ELEVATION - EXISTING AT JOINT L5E EAST TRUSS

L1E

EAST GUSSET & ELEVATION - EXISTING AT JOINT LIE

EAST TRUSS

L2E

EAST GUSSET & ELEVATION - EXISTING AT JOINT L2E

EAST TRUSS (Looking West)

L5E

(Looking West)

LEGEND:

- O Indicates $^{15}\!_{16}$ " ϕ shop drilled holes for $^{7}\!_{8}$ " ϕ H.S. bolts. Contractor may elect to
- Indicates $^{15}_{16}$ " ϕ field drill holes for $^{7}_{8}$ " ϕ H.S. bolts.

N.S. = Near Side

F.S. = Far Side

NOTES:

- 1. The Contractor shall field verify the dimensions of the proposed connection plates, connection angles and the layout of the fastener holes prior to ordering materials. The minimum distance between the centers of any of the holes in any direction shall not be less than $2^{5}8$ ". The Bureau of Bridges and Structures shall be contacted for further disposition if the field measurements indicate that the location of the existing fasteners result in a center-to-center spacing of the holes in the proposed connection plates or connection angles of less than the minimum specified.
- 2. Existing gusset plate rivets are to be replaced one at a time with High Strength Bolts. At no time shall there be more than one empty fastener hole, however removal and replacement of the rivets for the inside and outside gusset plates may be done simultaneously. After the removal of each rivet, the holes shall be reamed to $^{15}_{16}$ " ϕ , $^{7}_{8}$ " ϕ H.S. Bolt placed in the hole, and the nut hand tightened. After the specified rivets have been removed, the nuts can be removed, plate installed, and the nuts reinstalled.
- 3. The Contractor shall field verify the required bolt length and length of thread necessary to install all bolts in accordance with the Standard Specifications and Section 8.2.1 of the 2004 RCSC "Specification for Structural Joints Using ASTM A325 or A490 Bolts".
- 4. Repairs should include but not be limited to the areas shown. The actual areas to be determined by the Engineer at the time of Construction.
- 5. Work this sheet with Sheet S-18 thru S-21.

0.00	Ciorba	Group,	inc.	_
3	CONSULTING 5507 North Cumber Suite 402 Chicago	dand Avenue		****
	Tel. 773.775.4009 Fax 773.775.4014 Email chicago@cio	rba.com		-

	USER NAME = akhan	DESIGNED - DL	REVISED -
9.		CHECKED - BWS	REVISED -
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	PLOT DATE = 9/9/2011	CHECKED - BWS	REVISED -

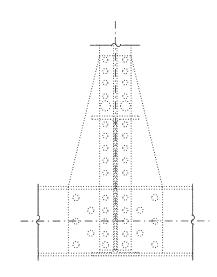
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

STEEL REPAIRS VIII	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 016-0421	350	3068 A-B-F	₹-1	соок	57	40
311100101L NO. 010-0421				CONTRACT	NO.	60N
SHEET NO. S-17 OF S-27 SHEETS		ILLIN	NOIS FED. A	ID PROJECT		

WEST GUSSET & ELEVATION - PROPOSED

AT JOINT L5E

EAST TRUSS
(Looking East)

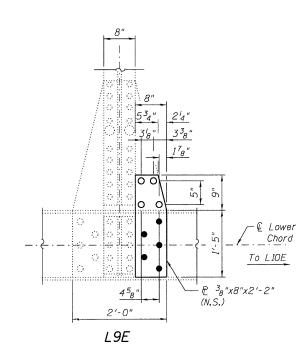


L5E

WEST GUSSET & ELEVATION - EXISTING

AT JOINT L5E

EAST TRUSS
(Looking East)

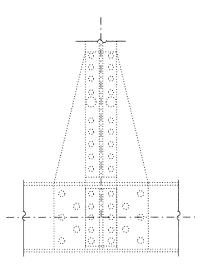


WEST GUSSET & ELEVATION - PROPOSED

AT JOINT L9E

EAST TRUSS
(Looking East)

Note: For Repair Notes and Legend see Sheet S-17.

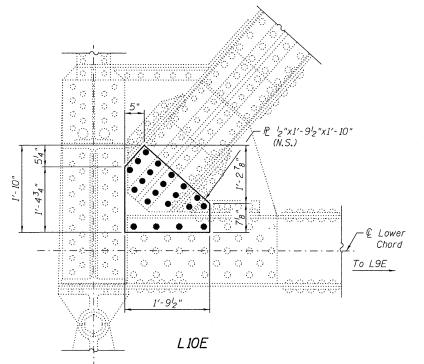


L9E

WEST GUSSET & ELEVATION - EXISTING

AT JOINT L9E

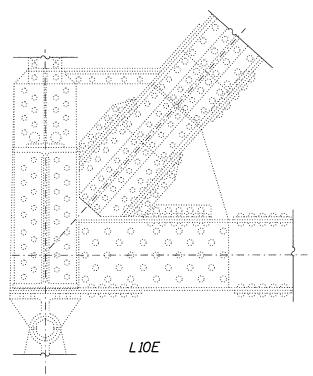
EAST TRUSS
(Looking East)



EAST GUSSET & ELEVATION - PROPOSED

AT JOINT LIDE

EAST TRUSS
(Looking West)



EAST GUSSET & ELEVATION - EXISTING

AT JOINT LIOE

EAST TRUSS
(Looking West)

Ciorba Group, Inc CONSULTIGE KNAIMERS SOT Night Cymberiand Avaney Son 73,775.400, Illinois 60505 Far 73,775.400

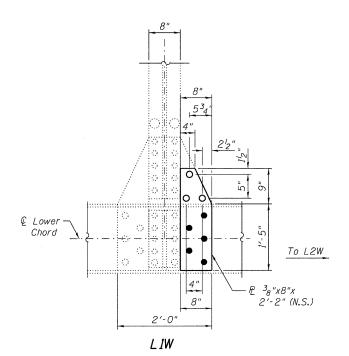
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL REPAIRS IX
STRUCTURE NO. 016-0421
SHEET NO. S-18 OF S-27 SHEETS

F.A.P. SECTION COUNTY TOTAL SHEETS NO.

350 3068 A-B-R-1 COOK 57 41

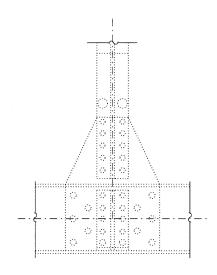
CONTRACT NO. 60N88



WEST GUSSET P ELEVATION - PROPOSED

AT JOINT LIW

WEST TRUSS
(Looking East)



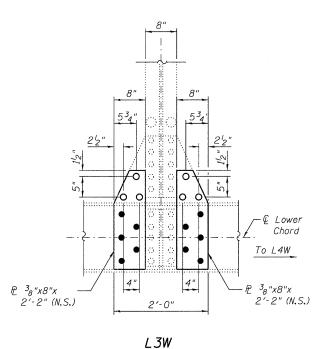
L1W

WEST GUSSET & ELEVATION - EXISTING

AT JOINT LIW

WEST TRUSS

(Looking East)

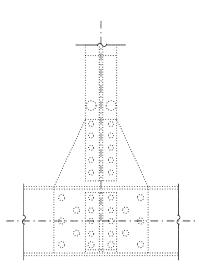


WEST GUSSET & ELEVATION - PROPOSED

AT JOINT L3W

WEST TRUSS
(Looking East)

Note: For Repair Notes and Legend see Sheet S-17.

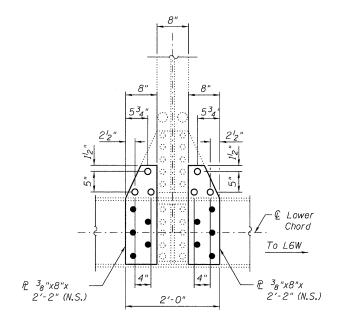


L3W

WEST GUSSET & ELEVATION - EXISTING

AT JOINT L3W

WEST TRUSS
(Looking East)

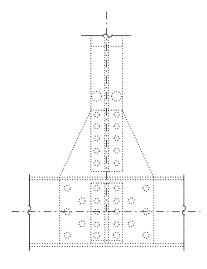


L5W

WEST GUSSET & ELEVATION - PROPOSED

AT JOINT L5W

WEST TRUSS
(Looking East)



L5W

WEST GUSSET & ELEVATION - EXISTING

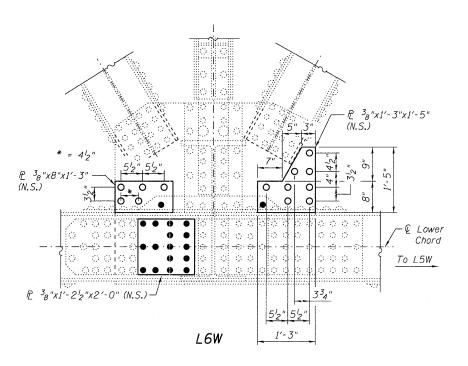
AT JOINT L5W

WEST TRUSS
(Looking East)



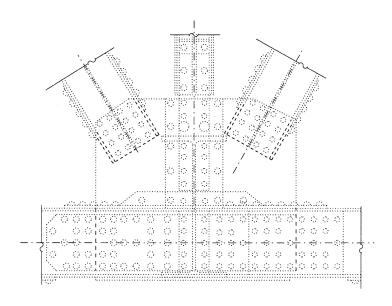
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL REPAIRS X
STRUCTURE NO. 016-0421
SHEET NO. S-19 OF S-27 SHEETS



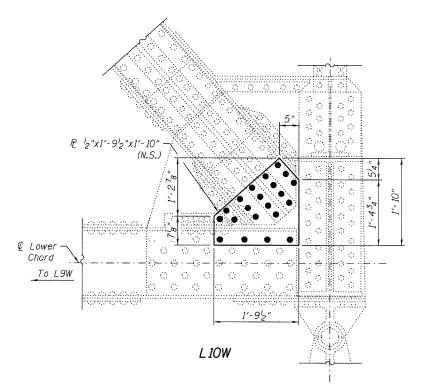
EAST GUSSET & ELEVATION - PROPOSED AT JOINT L6W WEST TRUSS (Looking West)

Note: For Repair Notes and Legend see Sheet S-17.

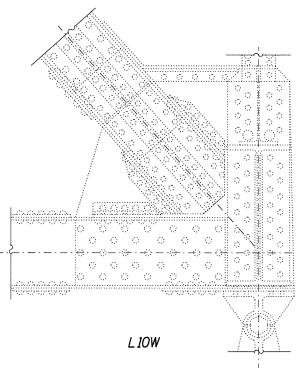


L6W

EAST GUSSET & ELEVATION - EXISTING AT JOINT L6W WEST TRUSS (Looking West)



WEST GUSSET & ELEVATION - PROPOSED AT JOINT LIOW WEST TRUSS (Looking East)



WEST GUSSET & ELEVATION - EXISTING

AT JOINT LIOW

WEST TRUSS
(Looking East)

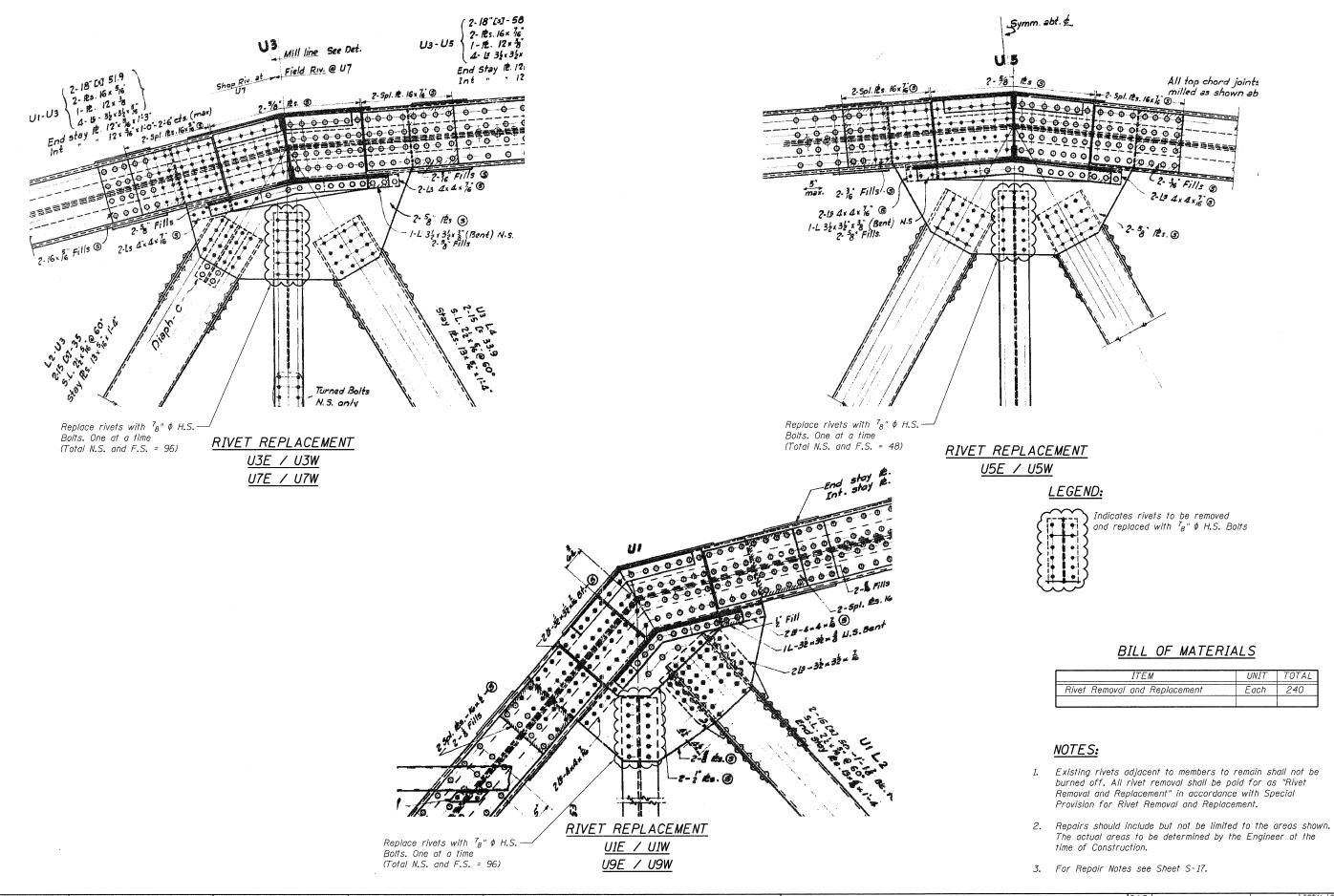
	USE
Ciorba Group, inc.	
CONSULTING ENGINEERS 5507 North Cumberland Avenue 5507 Chicago. Illingis 60656	PLC
Tel. 773.775.4099 Fax 773.775.4014 Enral chicago@clorba.com	PLC

	USER NAME = akhan	DESIGNED - DL	REVISED -	
c.		CHECKED - BWS	REVISED -	
	PLOT SCALE = 1.0000000 '/ in.	DRAWN - LVH	REVISED -	
	PLOT DATE = 9/9/2011	CHECKED - BWS	REVISED -	
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL REPAIRS XI	
STRUCTURE NO. 016-0421	
SHEET NO. S-20 OF S-27 SHEETS	_

	ILLINOIS FED. AI	D PROJECT		
	····	CONTRACT	NO.	60N8
350	3068 A-B-R-1	COOK	57	43
F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.



DESIGNED - DL REVISED CHECKED - BWS REVISED PLOT SCALE = 1.000000 '/ 10-DRAWN - RD REVISED PLOT DATE = 9/9/2011 CHECKED - BWS REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

STRUCTURAL REPAIR XII STRUCTURE NO. 016-0421 SHEET NO. S-21 OF S-27 SHEETS

COUNTY TOTAL SHEET NO.

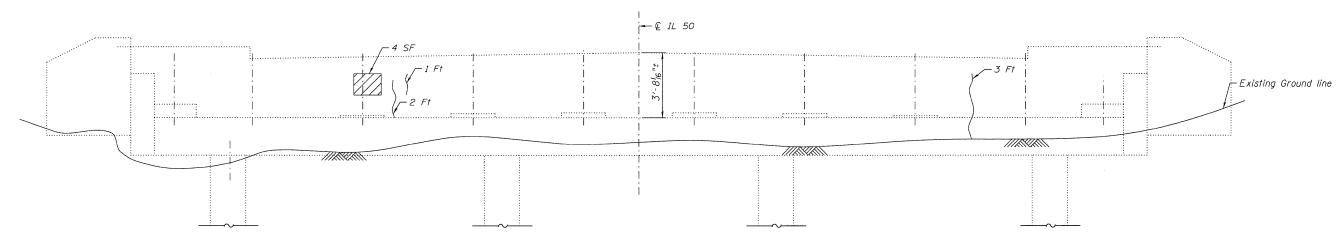
COOK 57 44 SECTION 3068 A-B-R-1 CONTRACT NO. 60N88

UNIT TOTAL

Each

NORTH ABUTMENT ELEVATION

(Looking North)



SOUTH ABUTMENT ELEVATION

(Looking South)

NOTES:

- Repairs shall include but not be limited to the areas shown on the plan.
 The actual areas to be repaired will be determined by the Engineer at the time of construction.
- Concrete sealer shall be applied to all structural repair of concrete on backwalls and bridge seats.

<u>LEGEND</u>

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

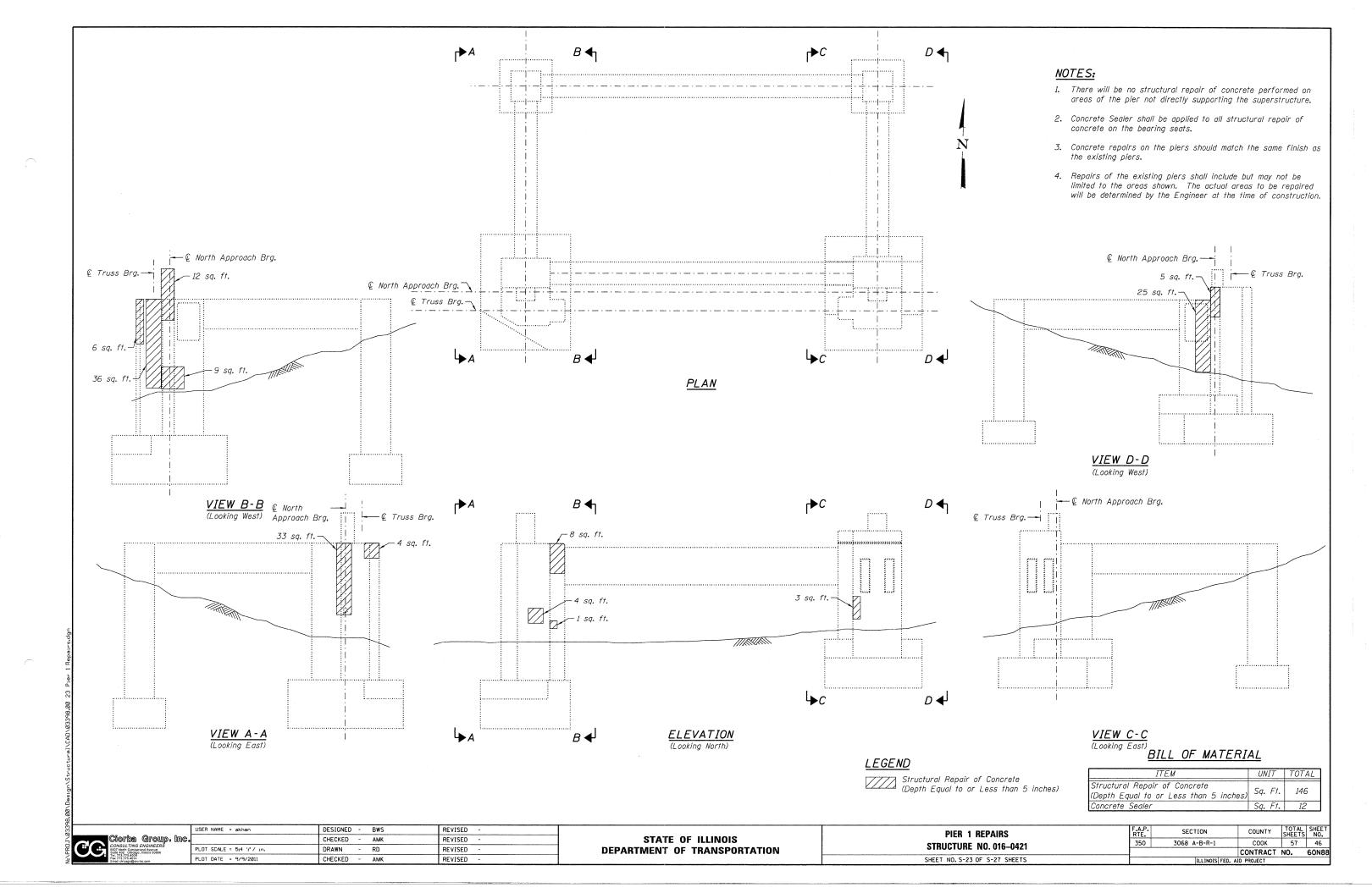
—— Epoxy Crack Injection

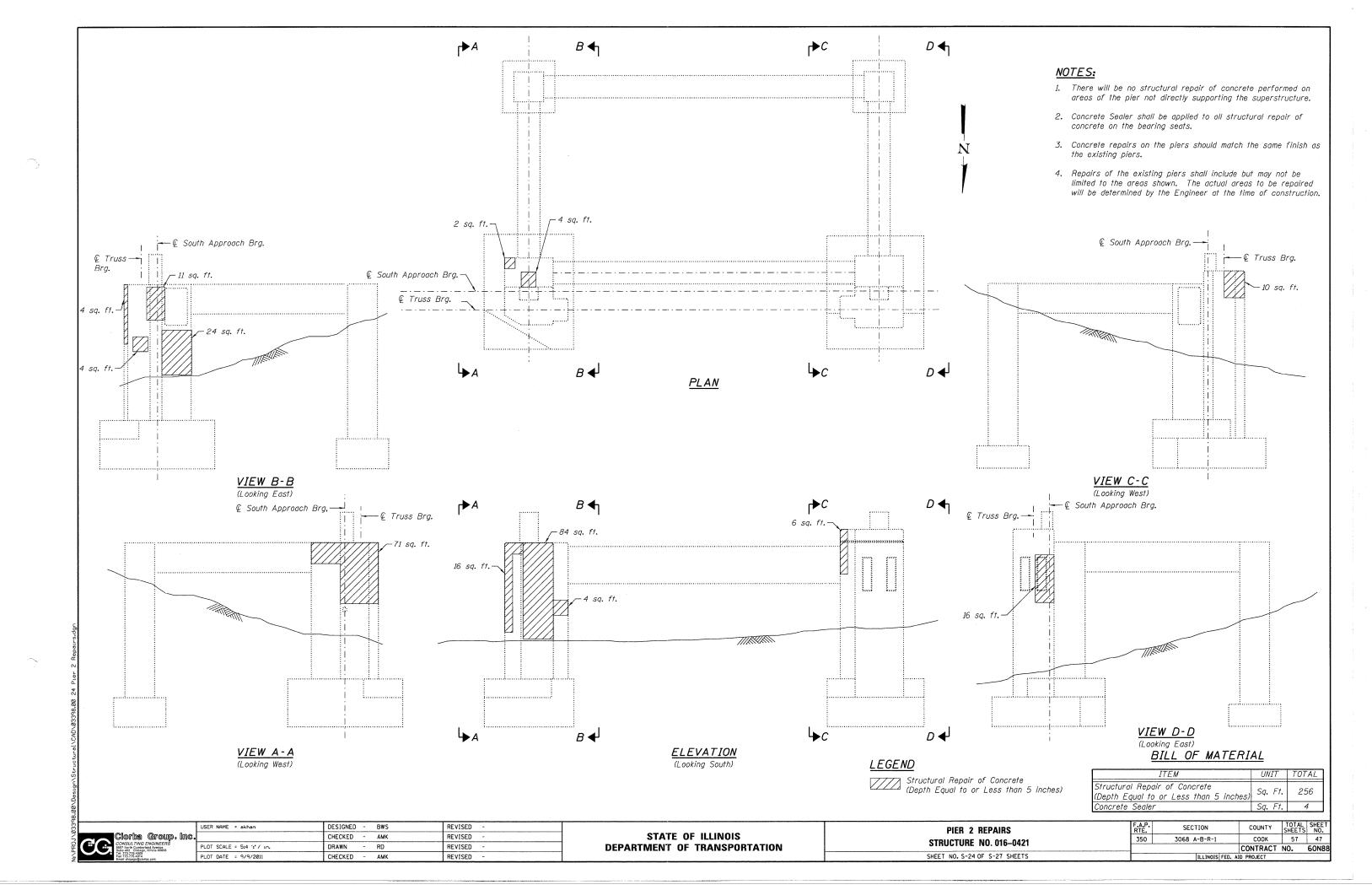
BILL OF MATERIAL

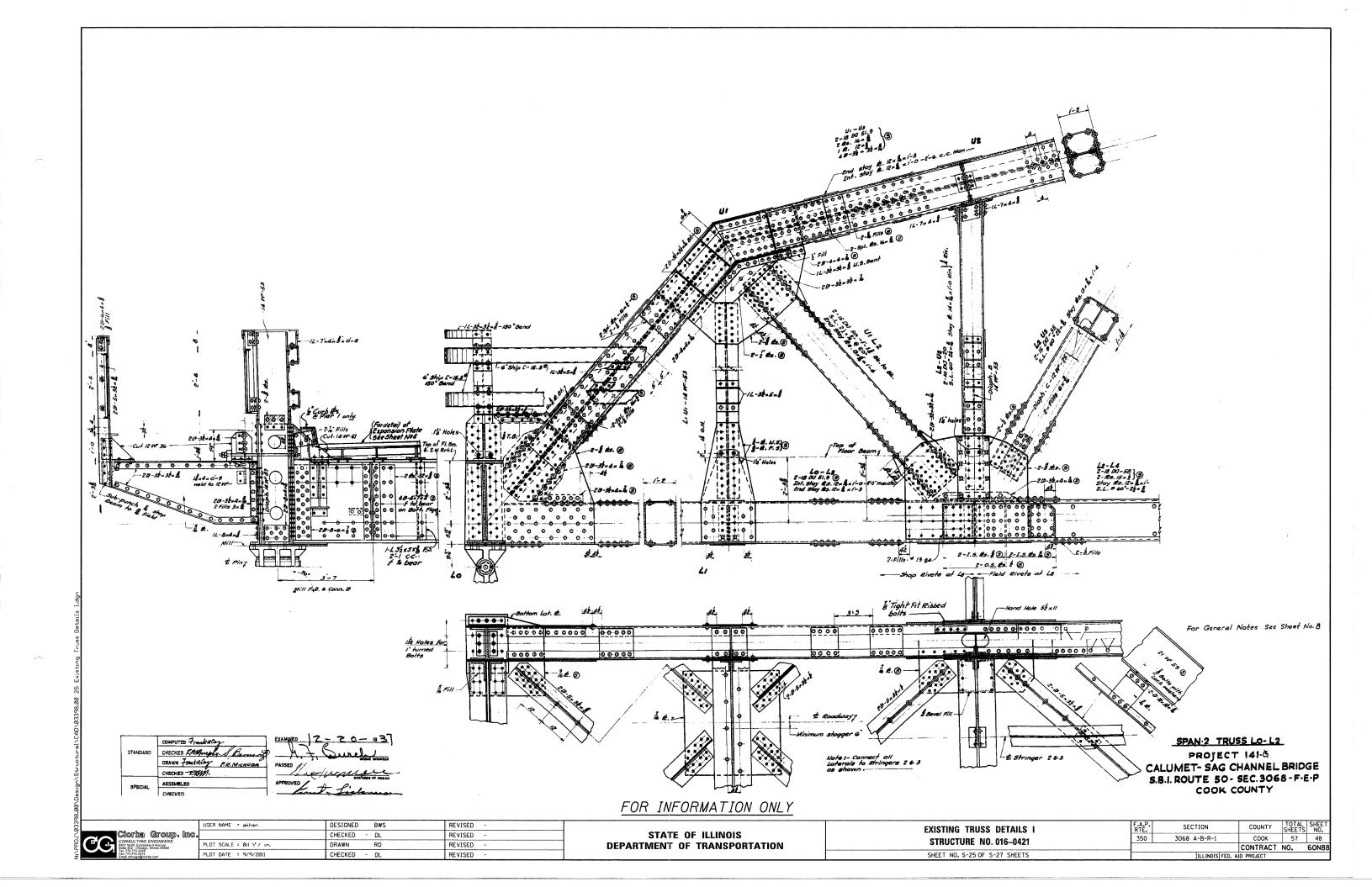
ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	6
Epoxy Crack Injection	Feet	6
Concrete Sealer	Sq. Ft.	6

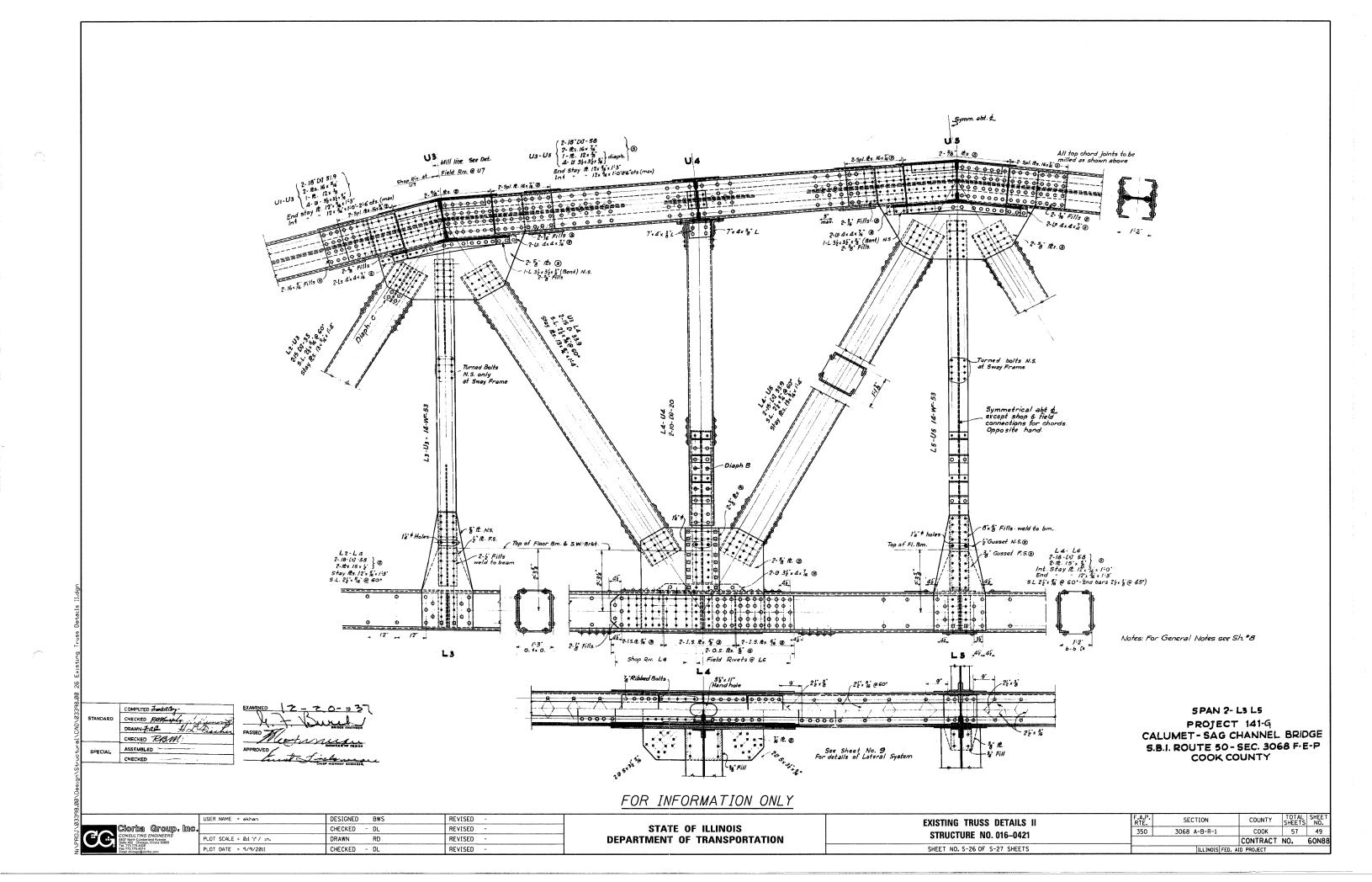
CIOTBA GITOUID IN CONSULTING ENGINEERS
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS STRUCTURE NO. 016-0421 SHEET NO. S-22 OF S-27 SHEETS 







STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths								
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5			
3, 4	1'-5"	1'-11''	2'-1"	2'-4"	2'-3"			
5	1'-9''	2'-5"	2'-7''	2'-11''	2'-10''			
6	2'-1"	2'-11''	3'-1''	3′-6′′	3'-4''			
7	2'-9''	3'-10''	4'-2"	4'-8''	4'-6''			
8	3′-8′′	5'-1''	5′-5′′	6'-2"	5′-10′′			
9	4'-7''	6′-5′′	6'-10''	7'-9''	7′-5′′			

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Bridge Deck

Threaded

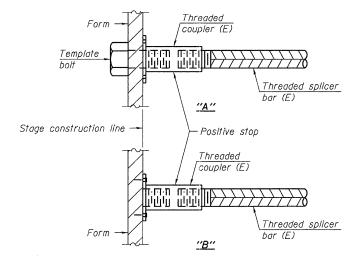
couplers (E)

Reinforcement

Threaded splicer bar length = min. lap length + 1_2^{l} " + thread length

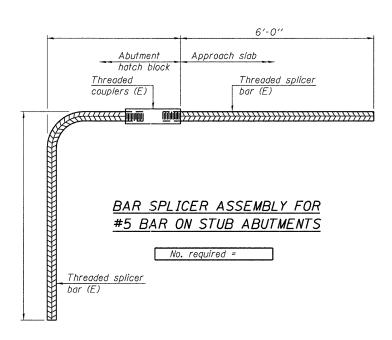
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

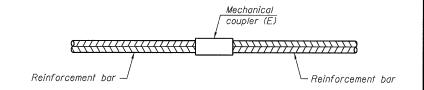
Bar size	No. assemblies required	Table for minimum lap length
#5	44	3
#6	10	3
#5	16	3
	10	J
	size #5 #6	size required #5 44 #6 10



INSTALLATION AND SETTING METHODS

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





STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

<u>NOTES</u>

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

TOTAL SHEE SHEETS NO.

COOK 57 50

CONTRACT NO. 60N8

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

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

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

Threaded splicer bar (E) 4'-0" 6'-0" BAR SPLICER ASSEMBLY FOR #5 BAR ON

INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =

BSD-1

7-1-10

	, 1 10			
	USER NAME = akhan	DESIGNED BWS	REVISED -	
, inc.		CHECKED - DL	REVISED -	
	PLOT SCALE = 0:1 ':' / in.	DRAWN - RD	REVISED -	
	PLOT DATE = 9/9/2011	CHECKED - DL	REVISED -	

Approach Slab

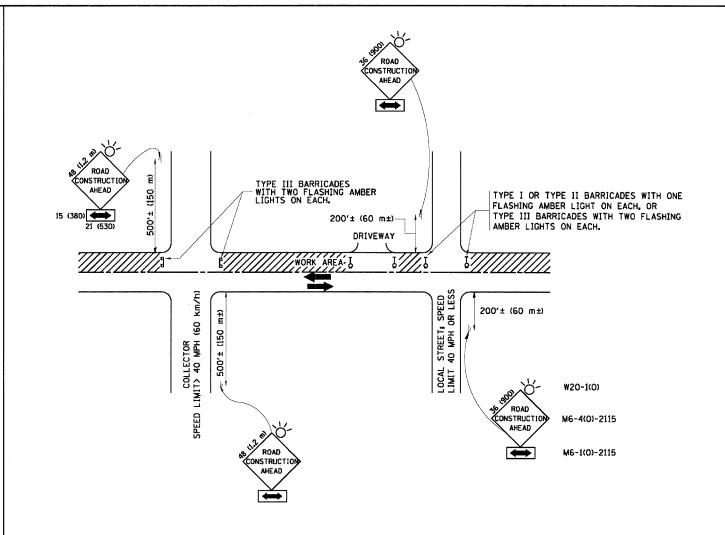
Threaded splicer

bar (E)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS 3068 A-B-R-1 STRUCTURE NO. 016-0421 SHEET NO. S-27 OF S-27 SHEETS

See special provision for Mechanical Splicers.



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

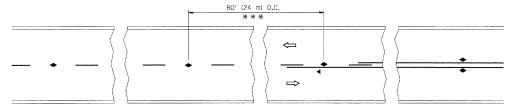
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\diststd\22x34\to10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

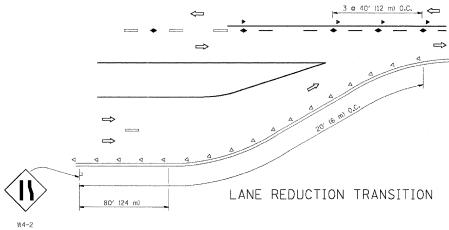
	TRAFFIC	CONTROL AND P	ROTECTION FOR	
	SIDE ROADS	S, INTERSECTIONS	, AND DRIVEWAY	S
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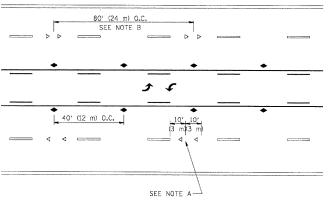
F.A.P. RTE.	A.P. SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
350	3068	A-B-R-1			COOK	57	51
TC-10					CONTRACT	NO.	88/10
FED. R	DAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT		



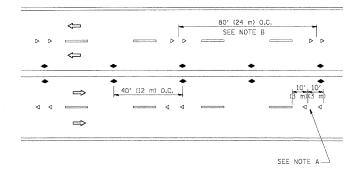
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

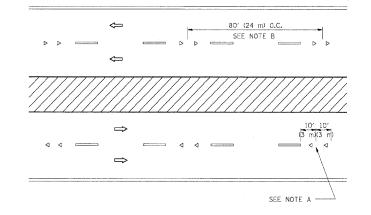




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

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

SYMBOLS

---- YELLOW STRIPE

WHITE STRIP

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

DESIGN NOTES

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

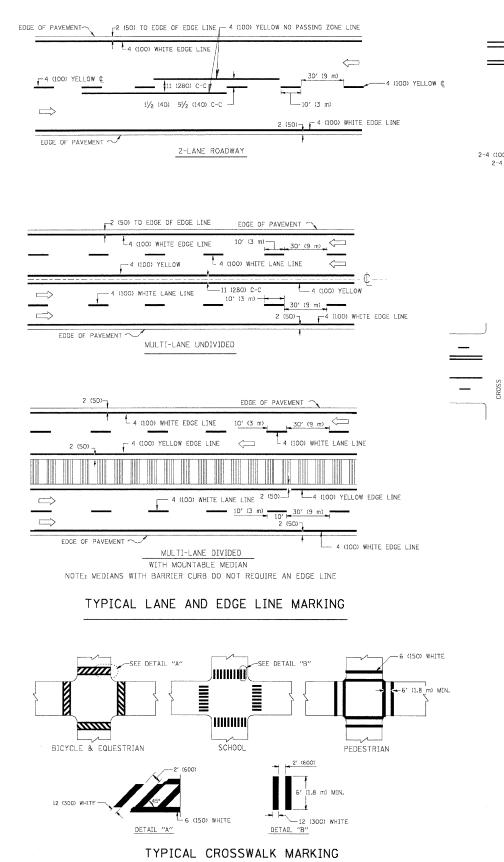
LEFT TURN

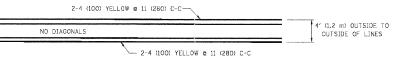
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakasgn	DESIGNED -	REVISED	-T. RAMMACHER 09-19-94
c:\pw_work\pwidot\drivakosgn\dØ108315\to	ll.dgn	DRAWN	REVISED	-T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 01-06-00
	PLOT DATE = 9/9/2009	DATE -	REVISED	- C. JUCIUS 09-09-09

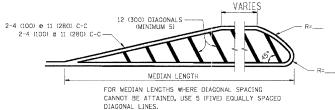
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						TYP	ical	. APPLICA	\TI(DNS		-
	RAISED	R	EFLECTI	VE	PA	VEN	IENT	MARKER	S	(SNOW-PLOW	RESISTANT)	
E:	NONE		SHEET	NO.	1	OF	1	SHEETS	S	TA.	TO STA.	



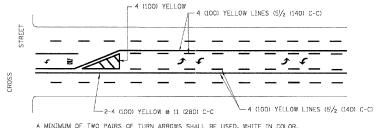


4' (1.2 m) WIDE MEDIANS ONLY

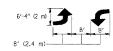


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

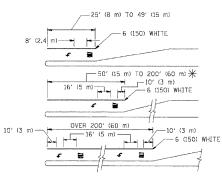


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

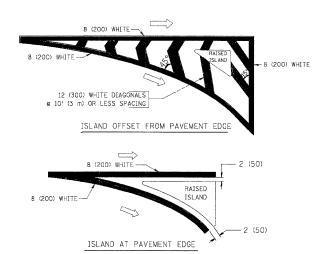


FULL SIZE LETTERS B' (2.4 m) AND ARROWS SHALL BE USED. \P_1 AREA = 15.6 SO. FT. (1.5 m²))

TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

			·	
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EGUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' 11.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	0 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

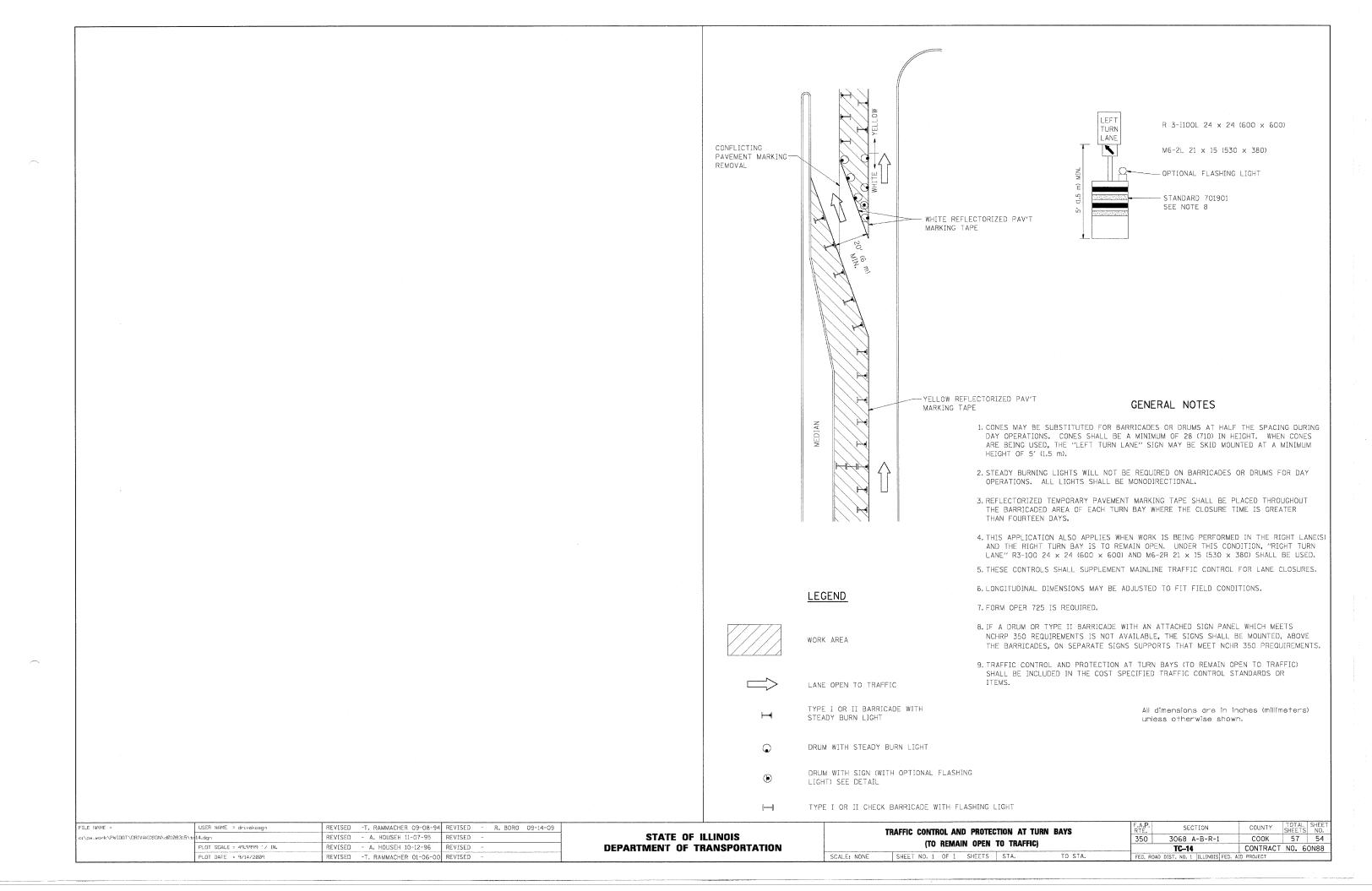
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

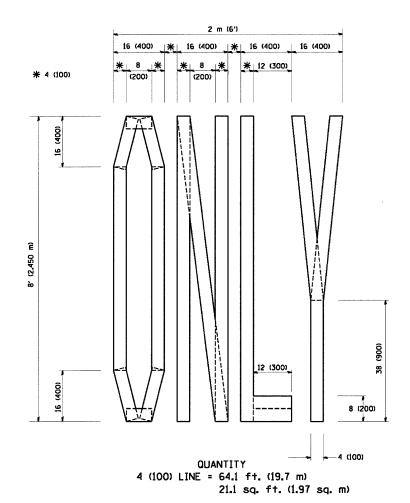
All dimensions are in inches (millimeters) unless otherwise shown.

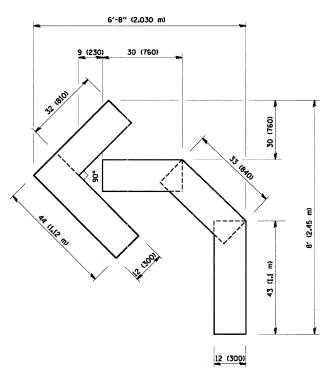
FILE NAME =	USER NAME = drivakosgn	DESIGNED -	-	EVERS	REVISED	-T.	RAMMACHER	10-27-94
c:\pw_work\pwidot\drivakasgn\dØ108315\tc	3.dgn	DRAWN -	-		REVISED	- C.	JUCIUS	09-09-09
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	-		REVISED	-		
	PLOT DATE = 9/9/2009	DATE -	-	03-19-90	REVISED	-		

STATE	OF	ILLINOIS
DEPARTMENT ()F	TRANSPORTATION

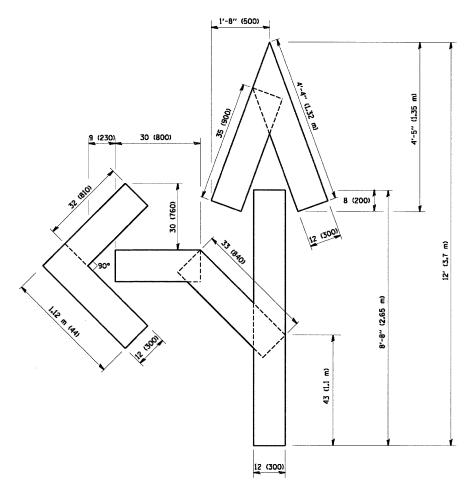
DISTRICT ONE					F.A.P. RTE.	SECTION	COUNTY	COUNTY TOTAL SHEETS		
TYPICAL PAVEMENT MARKINGS						3068 A-B-R-1	-B-R-1 COOK			
	ITFICAL	WACINICIAI	TC-13 CONTRACT NO. 6							
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					







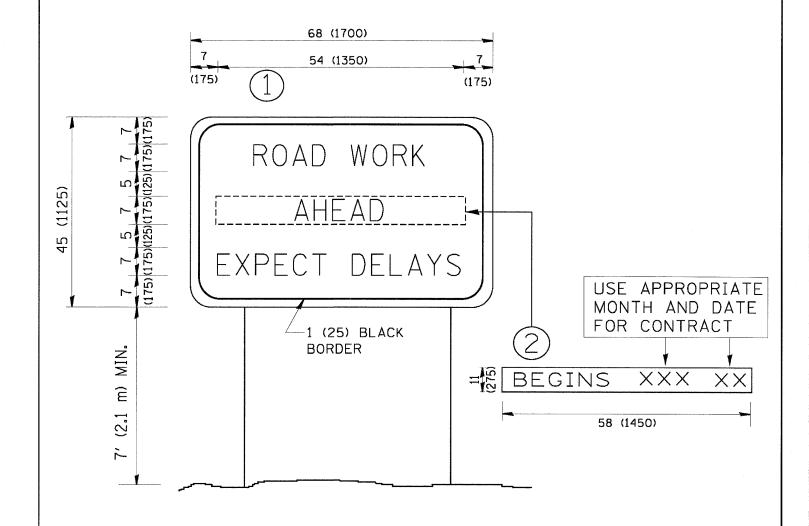
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTERS AND SYMBOLS			COLINTY	TOTAL SHEET SHEETS NO.
W:\diststd\22x34\to16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS				350 3068 A-B-R-1	COOK	57 55
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING			TC-16	CONTRACT	NO. 60N88
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	F	FED. ROAD DIST. NO. 1 ILLINOIS FED		

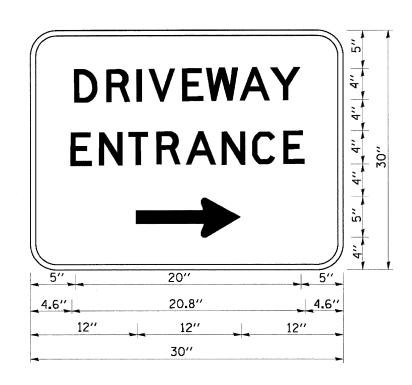


NOTES:

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

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTTRIAL BOAR	F.A.P. SECTION	COUNTY TOTAL SHEET
W:\distatd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	ARTERIAL ROAD	350 3068 A-B-R-1	COOK 57 56
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 60N88
	PLOT DATE = 1/4/2008			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07			DRIVEWAY ENTRANCE SIGNING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SH SHEETS
W:\diststd\22x34\to26.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	DINFERM LITIEMED SIGNAGE			350	3068 A-B-R-1	COOK	57
:	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					TC-26	CONTRACT	NO. 60N
	PLOT DATE = 1/4/2008	DATE ~	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAL	D DIST. NO. 1 ILLINOIS FED. A	AID PROJECT	