FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

POSTED SPEED LIMIT = 30 MPH DESIGN SPEED LIMIT = 35 MPH

POSTED SPEED LIMIT = 30 MPH

POSTED SPEED LIMIT = 30 MPH DESIGN SPEED LIMIT = 35 MPH TRAFFIC = 10500 ADT (2014)

ASBURY AVENUE POSTED SPEED LIMIT = 30 MPH DESIGN SPEED LIMIT = 35 MPH

DESIGN SPEED LIMIT = 35 MPH TRAFFIC = 10600 ADT (2014)

TRAFFIC = 15250 ADT (2014) TRAFFIC = 16015 ADT (2040)

TRAFFIC = 11130 ADT (2040)

TRAFFIC = 11025 ADT (2040)

TRAFFIC = 3900 ADT (2014)

TRAFFIC = 4100 ADT (2040)

EMERSON STREET

GREEN BAY ROAD

0

0

0

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED ROADWAY PLANS

EMERSON STREET, RIDGE AVENUE AND GREEN BAY ROAD CORRIDOR

SECTION: 13-00270-00-CH

PROJECT: CMM-M-4003 (237) INTERSECTION IMPROVEMENTS AND

PAVEMENT RESURFACING & RECONSTRUCTION

CITY OF EVANSTON COOK COUNTY

C-91-065-14 R 14 E, SEC. 14

GREEN BAY ROAD 016-0289 END IMPROVEMENTS STA. 1040 + 12.0 **ASBURY AVENUE** END IMPROVEMENTS STA. 206 + 88.8 **EMERSON STREET** BEGIN IMPROVEMENTS STA. 104 + 04.3 **ASBURY AVENUE BEGIN IMPROVEMENTS** LAKE MICHIGAN STA. 201 + 70.0 GREEN BAY ROAD **BEGIN IMPROVEMENTS** STA. 1000 + 00.0 RIDGE AVENUE BEGIN IMPROVEMENTS STA. 1999 + 60.0

STRUCTURE NO. STA. 1032 + 58.0

RIDGE AVENUE **END IMPROVEMENTS** STA. 2014 + 56.6

EMERSON STREET END IMPROVEMENTS STA. 113 + 40.0

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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CITY SENIOR PROJECT MANAGER: SAT NAGAR, PE CONSULTANT PROJECT MANAGER: MARK REZNICEK, PE

CONTRACT NO. - 61C32

LOCATION MAP

GROSS LENGTH = 6925 FT. = 1.31 MILES NET LENGTH = 6925 FT. = 1.31 MILES



ESI CONSULTANTS, LTD.

** THIS DOCUMENT IS THE PROPERTY OF ESI CSONSULTANTS, LTD. AND NO PART HEREIN SHALL BE USED ** EXCEPT FOR THIS SPECIFIC PROJECT WITHOUT THE WRITTEN CONSENT OF ESI CSONSULTANTS, LTD.

62-046136 LICENSED MARK A. REZNICEK DATE: 2/18/2016 EXP: 11/30/2017

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 12-4 20 15 CITY OF EVANSTON, CITY MANAGER PASSED DECEMBER 16 20 2015 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS RELEASING FOR BID BASED ON LIMITED REVIEW Lecenber 17 20 15 DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

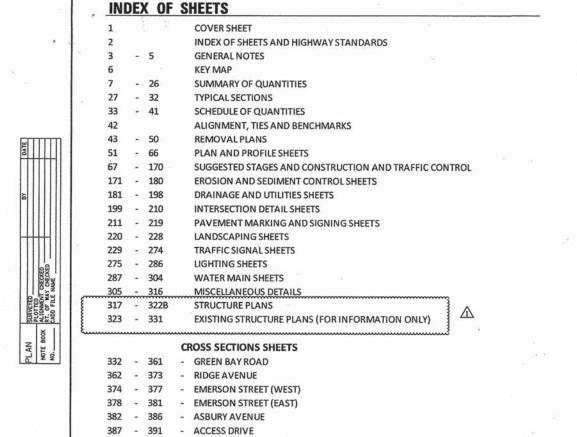
STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SECTION COOK 393 1 13-00270-co-CH CONTRACT NO. 61C32 A (+2=395)

C-91-065-14





DISTRICT	1 HIGHWAY STANDARDS
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-33	HMA TAPER AT EDGE OF P.C.C. PAVEMENT
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN TO OPEN TRAFFIC)
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-02	MAST ARM MOUNTED STREET NAME SIGNS
TS-05A	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05B	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05C	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05D	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05E	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-05F	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

IDOI IIIO	IIIWAI STANDANDS	
STD.	DESCRIPTION	Ĺ
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS	
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS	
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS	
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS	
424021-03	DEPRESSED CORNER FOR SIDEWALKS	
424031-01	MEDIAN PEDESTRIAN CROSSINGS	
442201-03	CLASS C AND D PATCHES	
602001-02	CATCH BASIN TYPE A	
602301-04	INLET - TYPE A	
602401-03	MANHOLE TYPE A	
604001-04	FRAME AND LIDS TYPE 1	
604036-03	GRATE TYPE 8	
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	
606301-04	PC CONCRETE ISLANDS AND MEDIANS	
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY	
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE	
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY	
701101-04	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE	
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY	
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY	
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED	
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE	
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN	
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN	
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION	
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE	
701901-04	TRAFFIC CONTROL DEVICES	
720001-01	SIGN PANEL MOUNTING DETAILS	
720006-04	SIGN PANEL ERECTION DETAILS	
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS	
720016-03	MAST ARM MOUNTED STREET NAME SIGNS	
720021-02	SIGN PANELS EXTRUDED ALUMINUM TYPE	
728001-01	TELESCOPING STEEL SIGN SUPPORT	
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)	
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT	
780001-05	TYPICAL PAVEMENT MARKINGS	
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS	
814001-03	HANDHOLES	
814006-02	DOUBLE HANDHOLES	
821101-01	LUMINAIRE WIRING DIAGRAM	
830001-03	LIGHT POLE ALUMINUM MAST ARM	
830006-03	LIGHT POLE ALUMINUM DAVIT ARM	
830011-02	LIGHT POLE STEEL MAST ARM	
830016-02	LIGHT POLE STEEL DAVIT ARM	
836001-02	LIGHT POLE FOUNDATION	
836006-01	LIGHT POLE FOUNDATION WITH 32 IN CONCRETE MEDIAN BARRIER	
836011-01	LIGHT POLE FOUNDATION WITH 42 IN CONCRETE MEDIAN BARRIER	
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES	
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)	
873001-02	TRAFFIC SIGNAL GOUNDING & BONDING	
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'	
877011-05	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'	
878001-10	CONCRETE FOUNDATION DETAILS	

IDOT HIGHWAY STANDARDS

880006-01

886001-01

886006-01

SCALE: _

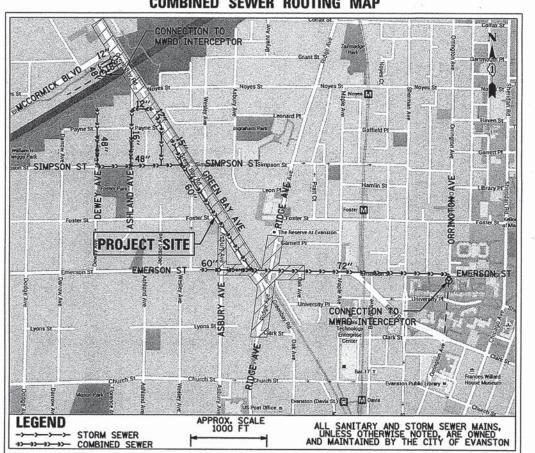
SHEET

TRAFFIC SIGNAL MOUNTING DETAILS

TYPICAL LAYOUTS FOR DETECTION LOOPS

DETECTOR LOOP INSTALLATIONS

COMBINED SEWER ROUTING MAP



TOR		USER NAME = bhenrachs	DESIGNED - BAH	REVISED - 1 2/18/2016
H > V	ESI CONSULTANTS, LTD.		DRAWN - BAH	REVISED -
	AN AND ESSA!	PLOT SCALE = 2.0000 '/ in.	CHECKED - MAR	REVISED -
ellence, Service, Integrity	RAPPERATURE AND ADDRESS OF THE PARTY OF THE	PLOT DATE = 2/19/2016	DATE - 10/9/2015	REVISED -

AND				SHEET	7	-	F.A. RTE.	SECTION	COUNTY	TOTAL	S
ANU	н	IIGH	WA	Y STAN	DARDS		-	13-00270-00-CH	соок	393	Г
EET	-	05	_	CUESTS					CONTRACT	NO.	610
EEI	- 1	OF	1	SHEETS	SIA.	TO STA.	Name of the last o	ILL INOIS FED.	ATD PROJECT		_

SEWERS.

- WATER MAIN SHALL BE INSTALLED AT A MINIMUM DEPTH OF 5.5' BELOW FINISHED GRADE AND NO DEEPER THAN 8' FROM FINISHED GRADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CITY OF EVANSTON. WATER MAIN SHALL BE A MIN. OF 18"ABOVE SANITARY AND STORM SEWERS AND A MIN. OF 10' OF HORIZONTAL CLEARANCE FROM FACE OF WATER MAIN TO FACE OF SANITARY AND STORM
- SERVICE LINES SHALL HAVE A MINIMUM OF 5.5' COVER AND A MAXIMUM OF 8' COVER. SERVICE LINES SHALL BE A MINIMUM OF 18" ABOVE SANITARY OR STORM SEWERS. COUPLINGS SHALL NOT BE INSTALLED UNDER PAVEMENT. WHEN INSTALLING A BACK LOOP OVER OR UNDER WATERMAIN, THE LOOP SHALL HAVE A MAXIMUM OF A 4' RADIUS.
- CHANGES IN DIRECTION OF WATER MAIN SHALL BE INSTALLED WITH APPROVED RETAINER FITTINGS AND THRUST BLOCKING.
- WATER MAIN SHALL NOT BE SLEEVED OR ENCASED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CITY OF EVANSTON.
- 5. ALL WATER MAIN SHALL BE WRAPPED. THE WRAPPING SHALL BE INSTALLED PER MANUFACTURER GUIDELINES. AFTER THE WRAPPING HAS BEEN REMOVED TO INSTALL SERVICE TAPS, LATERAL CONNECTION, ETC. THE WATER MAIN SHALL BE RE-WRAPPED WATER TIGHT USING BLACK VINYL TAPE MEETING ASTM D1000.
- TESTING OF NEW WATER MAIN PRIOR TO FINAL ACCEPTANCE BY THE CITY SHALL BE IN ACCORDANCE WITH SECTION 41-2.13 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND THE SPECIAL PROVISIONS WITHIN THE CONTRACT DOCUMENTS. PRESSURE TESTING SHALL INCLUDE HYDRANTS BY PRESSURE TESTING AGAINST THE INTERNAL VALVE OF HYDRANT.
- 7. FOR WATERMAIN SHUT OFFS, THE CONTRACTOR SHALL NOT OPERATE ANY WATER VALVES, THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE. THE CITY SHALL PROVIDE NOTIFICATION FORMS AND DETERMINE THE LIMIT OF THE AFFECTED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF THE NOTIFICATION FORMS TO ALL AFFECTED RESIDENTS/BUSINES OWNERS AT LEAST 24 HOURS IN ADVANCE OF THE SHUT OFF.
- 8. NON-PREFORMED MASTIC SHALL BE USED BETWEEN ALL VALVE VAULT SECTIONS INCLUDING FROM THE TOP OF CONE OR FLAT TOP SECTIONS TO BOTTOM OF FRAME, AND ALL ADJUSTING RINGS. VALVES SHALL BE ALIGNED TO THE CENTER OF THE VAULT FRAME SECTION.
- 9. A WOOD STAKE 2 INCH BY 4 INCH BY 6 FEET LONG WITH NOT LESS THAN THE TOP 2 FEET PAINTED BLUE SHALL BE INSTALLED NEXT TO EACH VAULT, SERVICE BOX AND VALVE BOX IN THE PARKWAY. THE STAKE SHALL BE MAINTAINED IN AN UPRIGHT POSITION UNTIL CITY ACCEPTANCE.
- 10. TRENCH BACKFILL QUANTITY FOR WATER MAIN HAS BEEN COMPUTED BASED ON STANDARD DRAWINGS NUMBER ONE AND TWO OF THE STANDARD SPECIFICATIONS FOR WATER SEWER MAIN CONSTRUCTION IN ILLINOIS AND SHALL BE PAID FOR ON THE FOLLOWING BASIS:

 6 AND 8 INCH DIAMFTER: 0.47 C Y // F

6 AND 8 INCH DIAMETER: 0.47 C.Y./L.F. 12 JNCH DIAMETER: 0.52 C.Y./L.F. WATER SERVICE LINE: 0.19 C.Y./L.F.

11. THE TRENCH DEPTH IS THE DEPTH FROM THE SUBGRADE TO THE TOP OF SERVICE AND ANY REQUIRED BEDDING. ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED ABOVE, INCLUDING BEDDING MATERIAL, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ALL FIRE HYDRANTS ARE TO BE CLOW MEDALION. ALL HYDRANTS ARE TO BE SUPPLIED WITH FACTORY INSTALLED 6" FLANGED AND MECHANICAL JOINT RESILIENT WEDGE AUXILLIARY VALVE CONFORMING TO AWWA C500-80. VALVE SHALL WATEROUS M.J.. ALL BOLTS TO BE SERIES 300 STAINLESS STEEL ON HYDRANT AND VALVE. HYDRANTS SHALL BE INSTALLED WITH A BURY MARK AT GRADE LEVEL AND NO LOWER THAN 18" FROM THE CENTER OF STEAMER PORT TO FINAL GRADE. HYDRANTS SHALL BE INSTALLED PLUMB AND LEVEL. WHEN EXTENDING A HYDRANT THE "BREAK FLANGE" SHALL BE RELOCATED TO GRADE LEVEL. AUXILIARY VALVES SHALL OPEN IN A COUNTER-CLOCKWISE FASHION, BE KEYABLE AND TO GRADE, AND SHALL INCLUDE VALVE BOXES. EXTERNAL ABOVE-GRADE SURFACES OF FIRE HYDRANTS SHALL BE COATED BY THE MANUFACTURER WITH ONE COAT OF ALKYD BASED, LEAD AND CHROME-FREE BUFF PRIMER AND TWO COATS OF ALKYD BASED, CHAIN-STOPPED GLOSS ENAMEL CONFORMING TO WATEROUS M4182, FEDERAL SAFETY YELLOW HYDRANT ENAMEL. HYDRANTS HAVING BEEN COATED WITH ANY OTHER COATING OR COLOR SHALL NOT BE ACCEPTED.

GENERAL NOTES

STRUCTURE NOTES:

- THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS THE OWNER OF RECORD FOR THE BRIDGE CARRYING GREEN BAY ROAD OVER THE NORTH SHORE CHANNEL. FOR INFORMATION REGARDING THE EXISTING STRUCTURE SEE RECORD PLANS WITHIN PLAN SET.
- THE UNION PACIFIC RAILROAD IS THE OWNER OF RECORD FOR THE RAILROAD VIADUCT OVER EMERSON STREET AND RIDGE AVENUE. FOR INFORMATION REGARDING THE EXISTING STRUCTURE SEE RECORD PLANS WITHIN PLAN SET.

3. SUBWAY TILE SHALL BE INSTALLED ON THE EMERSON STREET AND RIDGE AVENUE ABUTMENT WALLS OF THE UNION PACIFIC RAILROAD VIADUCT.

LANDSCAPING NOTES:

 CONTRACTOR SHALL PROVIDE SPADE EDGES FOR ALL SODDING AREA ABUTTING EXISTING TREES BY MAINTAINING A MINIMUM 5' DIAMETER MULCH BED AROUND EACH EXISTING TREE.

TRAFFIC SIGNAL NOTES:

 ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE TO THE DEPTH AS LABELED ON THE PROPOSED TRAFFIC SIGNAL PLAN SHEETS.

MWRD NOTES:

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * VILLAGE OF EVANSTON MUNICIPAL CODE;
 - * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 - * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2)
 WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- THE VILLAGE OF EVANSTON ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION, IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0 FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTSINDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE
 FORINFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS
 AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION
 OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE
 CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- 1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

TO STA.

ESI

ESI CONSULTANTS, LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

GENERAL NOTES

SHEET 2 OF 3 SHEETS STA.

DATE	I				Δ
BY				and the same	Δ
					Δ
		HECKED HECKED	WE		Δ
	SURVEYED PLOTTED	ALTGNMENT CH	CADO FILE NA		Δ
IN THE	LAN	NOTE BOOK	NO.		Δ
BY DATE			0		Δ
		CHECKED	RE NOTATINS CHIKD		

								ITILO	CONSTRUC	TION CODE		1			
CODE			TOTAL	ROADWAY (STP)	ROADWAY (CMAQ)	ROADWAY / LIGHTING (100% LOCAL) 0021	0043	SEWER (CMAQ)	0043	TRAFFIC SIGNALS (STP) 0021	TRAFFIC SIGNALS (CMAQ) 0021	WATER MAIN (100% LOCAL)	LIGHTING (100% LOCAL)	LANDSCAPING (100% LOCAL)	BRIDGE (100% LOCAL)
NO.	ITEM	UNIT	QUANTITY	0004 URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	S.N. 0289
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	14											14	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	14											14	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	14											14	
25100630	D EROSION CONTROL BLANKET	SQ YD	709											709	
25200110	SODDING, SALT TOLERANT	SQ YD	2820											2820	
25200200	SUPPLEMENTAL WATERING	UNIT	20	20											
2800040	PERIMETER EROSION BARRIER	FOOT	421											421	
2800050) INLET AND PIPE PROTECTION	EACH	118											118	
3030011	2 AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	5072	5051	21	0									
3110120	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	10235	5354	4049	832									
3530030	D PORTLAND CEMENT CONCRETE BASE COURSE 8*	SQ YD	5526	5471	53	2									
(3530110	O HIGH-EARLY STRENGTH PORTLAND CEMENT CONCRETE DAJE CONRISE "8	SQ YD	350	350}											
4060027	BITUMINOUS MATERIALS (PRIME COAT)	POUND	174315	138648	31838	3829									
4060053	7 LEVELING BINDER (HAND METHOD), IL-9.5FG, N70	TON	6.2	6.2											
4060063	5 LEVELING BINDER (MACHINE METHOD), N70	TON	328.0	328							***************************************				

SUMMARY OF QUANTITIES

A SPECIALTY ITEMS

STATE	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	SU	JMM	AR	Y OI	QUAN	TITIES		F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
								-	13-00270-00-CH	COOK	393	8
										CONTRACT	NO.	61C32
SCALE:	SHEET	2	OF	20	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

	١,			V 11 12 12				SUMMAR	Y OF QUANT	ITIES					
			160								CONSTRUC	TION CODE			_
						ROADWAY (STP)	ROADWAY (CMAQ)	ROADWAY / LIGHTING (100% LOCAL)	SEWER (STP)	SEWER (CMAQ)	SEWER (100% LOCAL)	TRAFFIC SIGNALS (STP)	TRAFFIC SIGNALS (CMAQ)	WATER MAIN (100% LOCAL)	
		NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0004 URBAN	0021 URBAN	0043 URBAN	0043 URBAN	0043 URBAN	0021 URBAN	0021 URBAN	0043 URBAN	
П		44200976	CLASS B PATCHES, TYPE IV. 10 INCH	SQ YD	4,576	2052			260	689	71			1504	H
1															
		44213200	SAW CUTS	FOOT	8943	3363	4727	853					EST.		-
		44213202	TIE BARS 1"	EACH	5895	3292	2603								
		44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	22560	10770	9990	1800							-
NAME															
CADO FILE		50102400	CONCRETE REMOVAL	CU YD	(42.3) A	12.9									-
NO. CAUD FILE NAME	Δ	50157300	PROTECTIVE SHIELD	SQ YD	210-										
						-									L
	A	50300255	CONCRETE SUPERSTRUCTURE	CU YD	50.6 A			1							ļ
		50300300	PROTECTIVE COAT	CYPS	192)										L
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	(6200) A										H
		50800515	BAR SPLICERS	EACH	(28) A										
	Δ	50901750	PARAPET RAILING	FOOT	(145')A										-
															T
		50901760	PIPE HANDRAIL	FOOT	12.0									12.0	F
		52000110	PREFORMED JOINT STRIP SEAL	FOOT	125/1	4									
															1
9		55100400	STORM SEWER REMOVAL 10"	FOOT	172					172					+
T'NS CH'KD	Δ	56100030	DUCTILE IRON WATER MAIN TEE, 10" X 6"	EACH	4									4	1
CTURE NOTATINS															T

A SPECIALTY ITEMS

ESI CONSULTANTS, LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SU	MMAR	Y OI	QUAN	TITIES		F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
							-	13-00270-00-CH	COOK	393	10
									CONTRACT	NO.	61C32
SCALE:	SHEET	4 OF	20	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

LANDSCAPING

(100% LOCAL) 0031 URBAN

LIGHTING

(100% LOCAL)

0021 URBAN BRIDGE

(100% LOCAL)

0004 S.N. 0289

(29.4) A

(210) A

(50.6) A (92) A (6200) A

(28) A

(14.5) A

(125) A

			CODE NO.
DATE	Щ		60618300
BY			60619200
		Δ	63100045
	CKED ECKED	Δ	63100085
URVEYED	ALIGNMENT CHE	Δ	63100167
PLAN	NOTE BOOK NO.	Δ	66900200
		Δ	66900450
		Δ	66900530
			67100100
			70300100
DATE	Ш		70301000
		A.	7040010

						Ţ			CONSTRUC	TION CODE			Т	1	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY (STP) 0004 URBAN	ROADWAY (CMAQ) 0004 URBAN	ROADWAY / LIGHTING (100% LOCAL) 0021 URBAN	SEWER (STP) 0043 URBAN	SEWER (CMAQ) 0043 URBAN	SEWER (100% LOCAL) 0043 URBAN	TRAFFIC SIGNALS (STP) 0021 URBAN	TRAFFIC SIGNALS (CMAQ) 0021 URBAN	WATER MAIN (100% LOCAL) 0043 URBAN	LIGHTING (100% LOCAL) 0021 URBAN	LANDSCAPING (100% LOCAL) 0031 URBAN	BRIDGE (100% LOCA 0004 S.N. 0289
		- J	- GOTHITH	SKEAR	ONDAN	OKBAR	OKBAN	OKBAN	OKDAN	OKBAR	ONDAN	- ONE, us			
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQFT	3075	2899	176										
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	1582	1582											
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1		1										
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2		2										
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1		1										
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1288	867	421										
66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1									1			
66900530	SOIL DISPOSAL ANALYSIS	EACH	10									10			
67100100	MOBILIZATION	LSUM	1	0.33	0.34	0.33									
70300100	SHORT TERM PAVEMENT MARKING	FOOT	15340	7180	6960	1200									
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	84100	70811	8042	524 7									
70400100	TEMPORARY CONCRETE BARRIET	FOOT	250)												A (250)
72000100	SIGN PANEL - TYPE 1	SQ FT	400	84	69					150	9 1				
72000200	SIGN PANEL - TYPE 2	SQFT	5	5											
SPECIAL	TY ITEMS		A			4				J					

SUMMARY OF QUANTITIES

USER NAME = bhenrichs REVISED - - 1 2/26/16 DESIGNED - BAH ESI ESI CONSULTANTS, LTD. DRAWN - BAH REVISED -PLOT SCALE = 1.0000 '/ in. CHECKED - MAR REVISED -PLOT DATE = 1/28/2016 DATE - 10/9/2015 REVISED -

STATI	E 01	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SUMMARY OF QUANTITIES						F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
								13-00270-00-CH	COOK	393	14
									CONTRACT	NO.	61C32
SCALE:	SHEET	8 0	F 20	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

									SUMMAR	Y OF QUANT	ITIES							
												CONSTRUC	TION CODE					
		C	ODE			TOTAL	ROADWAY (STP)	ROADWAY (CMAQ)	LOCAL)		SEWER (CMAQ)	LOCAL)	TRAFFIC SIGNALS (STP)	TRAFFIC SIGNALS (CMAQ)	WATER MAIN (100% LOCAL) 0043	LIGHTING (100% LOCAL)	LANDSCAPING (100% LOCAL)	BRIDGE (100% LOCAL)
			NO.	ITEM	UNIT	QUANTITY	0004 URBAN	0004 URBAN	0021 URBAN	0043 URBAN	0043 URBAN	0043 URBAN	0021 URBAN	0021 URBAN	URBAN	0021 URBAN	0031 URBAN	S.N. 0289
			001465	SANITARY SEWER, PVC 10"	FOOT	120				29	91							
		△ ××	001466	SANITARY SEWER, PVC, 12"	FOOT	234					234							
Ш		XZ1	127902	RETAINING WALL, SPECIAL	SQ FT	651	651	111-20-7-7-7-2-7-1										
П																		
03		Z00	012450	CONCRETE STEPS	CU YD	2.5	2.5											
PLOTTED ALIGNMENT CHECKED	NAME	Zoo	13798	CONSTRUCTION LAYOUT	Lsam	1	0,5	0,5)										
VEYED TTED) FILE	Z00	018900	DRILL AND GROUT DOWEL BARS	EACH	5200	2945	2255										
ALICA ALICA	CADC																	12
NOTE BOOK		Δ 200	033024	MAINTAIN EXISTING LIGHTING SYSTEM	LSUM	1										1		
) §	No.																	
		Z00	048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1											
		Z00	056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	487									487			
		Z00	056606	STORM SEWER (WATER MAIN REQUIREMENTS) 10 INCH	FOOT	21									21			
									†		11							
		Z00	056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	82									82			
	\mathbb{I}	Z00	062456	TEMPORARY PAVEMENT	SQ YD	397	397											
T				A CONTRACTOR OF THE CONTRACTOR											1			
	Ш	Δ 200	067200	STEEL CASINGS 10"	FOOT	45									45			
		Δ 200	067300	STEEL CASINGS 12"	FOOT	6				J					6			
I	02 02					7,80						7						
	'NS CH	Δ Z00	067400	STEEL CASINGS 14"	FOOT	153									153	(
CHECKED	NOTAT		3.2.7.7.7		, , , ,													
IN IN	E E																	

A SPECIALTY ITEMS

DESIGNED - BAH REVISED - - 12/26/16 ESI ESI CONSULTANTS, LTD. DRAWN - BAH REVISED -PLOT SCALE = 1.0000 '/ in. CHECKED - MAR REVISED -PLOT DATE = 1/28/2016 - 10/9/2015 REVISED

	SL	IMMAR	Y 01	QUAN'	TITIES		F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
							-	13-00270-00-CH	соок	393	25
	and the second							G-1-108-52	CONTRACT	NO.	61C32
SCALE:	SHEET	19 OF	20	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

Arrow on Fire Hydrant on Southeast corner of Grant Street and McCormick Blvd. CONTENT OF BRIDGE PLANS LOADING HS 20-44 Elev. = 599.84 Allow 25#/sq. ft. for future wearing surface. General Plan and Elevation Existing Structure was originally built in 1936 as a 3-span riveted plate girder Bridge. 2-Spans 35'-3" and 1-span Stage Construction Details 70'-0". Roadway is 44'-0" carrying Green Bay Road over the North Shore Channel. In 1989 the deck and superstructure Temporary Barrier Details DESIGN SPECIFICATIONS was removed and widened to 62'-5" out-to-out including a 5' sidewalk. Riveted plate girders were replaced with 8 W36 4. Expansion Joint Replacement Details beams. Only the middle 70'-0" span is composite.. AASHTO Standard Specifications for 5. Superstructure (Plan and Cross Section) Highway Bridges, 17th Edition - 2002 Interims Preformed Joint Strip Seal Proposed Improvement: Reducing lane configurations, removing existing Barrier wall and moving closer to centerline and Bar Splicer Assembly Details increasing sidewalk width. 8. Parapet Railing Detail DESIGN STRESSES Bridge Omission Sta. 1031+85.87 to Sta. 1033+30.79 FIELD UNITS (NEW CONSTRUCTION) f'c = 4.000 psi - (Superstructure) fy = 60,000 psi - (Reinforcement) FIELD UNITS (EXISTING CONSTRUCTION) f'c = 3,500 psi fy = 60,000 psi - (Reinforcement) fy = 50,000 psi - (M223 Grade 50) (Structural Steel) fy = 36,000 psi - (M183) (Structural Steel) 580.42 NWL El. 574.94 El. 579.94 ± El. 564.94 ± El. 564.94 ± € S. Abut. € N. Abut. ELEVATION © Pier 1 @ Pier 2 Ex. Barrier Wall to be Removed Light Pole to be Removed / APPROVED FOR STRUCTURAL ADEQUACY ONLY - Pr. Edge of Pavement -Pr. Barrier Wall -Pr. Sidewalk Widening Bk. of S. Abut Sta. 1031+85.37 Bk. of N. Abut. Sta. 1033+31.04 (87+83.21) (86+37.29) Green Bay Road Q32+00 1033+00 Preformed Joint Seal Preformed Joint Seal to be Replaced Curtis M. Watkins to be Replaced License Expires 11-30-2016 Pier Light Pole to be Removed Location -Pr. Edge of Pavement 3rd P.M. GENERAL PLAN & ELEVATION GREEN BAY ROAD OVER NORTH SHORE CHANNEL FAU ROUTE 2744 1'-6" 1'-2'2" 35'-9" € Brg. to € Brg. SECTION 13-00270-00-CH 68'-5½" € Brg. to € Brg. 36'-0'2" € Brg. to € Brg. COOK COUNTY 145'-8" Bk. to Bk. of Abut. STATION 87+10.25 PLAN STRUCTURE NO. 016-0289 LOCATION SKETCH USER NAME = bhenrichs DESIGNED - JEH REVISED - 1 2/26/2016 GENERAL PLAN AND ELEVATION ESI CONSULTANTS, LTD DRAWN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

- JEH REVISED - ENTIRE SHEET PLOT SCALE = 10:0.0002 ':" / in. CHECKED - CMW REVISED PLOT DATE = 2/25/2016 DATE - 2/25/2016 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE NO. 016-0289

SHEET 1 OF 8 SHEETS STA.

SCALE:

TO STA.

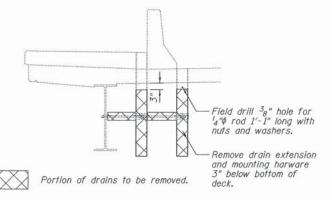
COUNTY TOTAL SHEET NO. COOK 393 317 13-00270-00-CH CONTRACT NO. 61C32 ILLINOIS FED. AID PROJECT

- 2. Move traffic onto east side of bridge.
- 3. Remove Existing Parapet on West side of bridge adjacent to sidewalk.
- Cut off and plug Existing drain pipe in existing sidewalk. Remove and plug drain pipe in bridge deck.
- 5. Remove Existing Expansion Joint up to Removal Line.
- Erect Proposed sidewalk and Parapet up to Expansion Joint Removal Line (See Sheet 4 of 7)
- 7. Install Proposed Strip Seal Expansion Joint up to Construction Line.
- 8. Erect remaining ends of sidewalk and parapet.

Stage II

SURVEYED
PLOTTED
ALGAMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

- 1. Move traffic onto West side of bridge.
- 2. Remove remaining Expansion Joint (See Sheet 4 of 7).
- 3. Erect remaining Proposed Strip Seal Expansion Joint.



PLUGGING EXISTING DECK DRAINS

Notes:

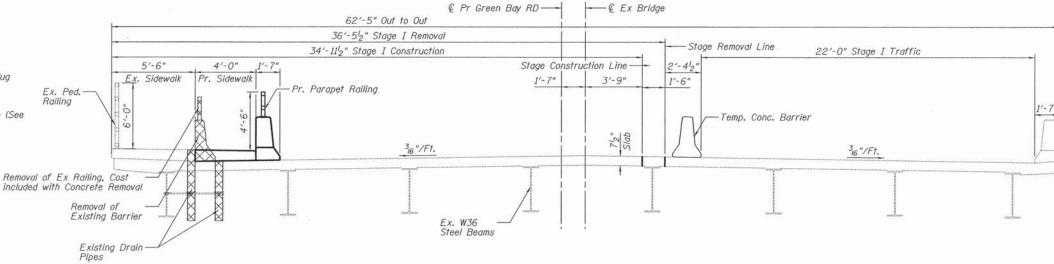
Deck drains shall be eliminated by field drilling a 3_8 " $^\phi$ hole through the bottom of the drain just below the deck. Installing a l_4 " $^\phi$ threaded rod and filling the drain with concrete. Alternate methods of plugging may be accepted with the approval of the engineer.

Drain plugs shall be poured monolithically with the new construction. Removal and disposal of the existing deck drains shall be as shown in the detail. Existing $^{7}_{8}$ " $^{\phi}$ holes in the beam webs shall be filled with HS bolts. The existing bolts may be reused.

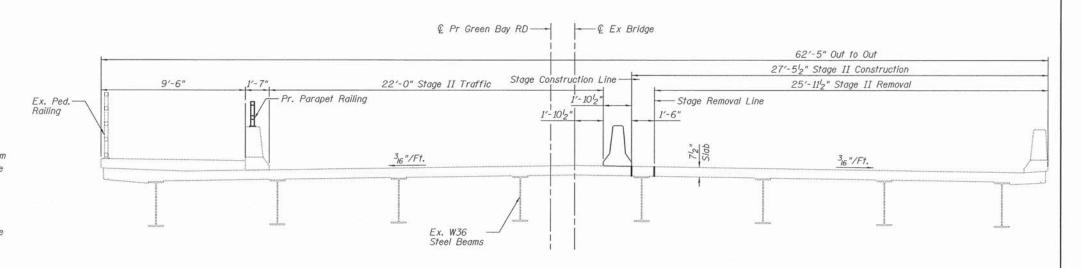
(16 Total drains)

TOTAL BILL OF MATERIALS

ITEM	UNITS	TOTAL QUANTITY
CONCRETE REMOVAL	CU YD	29.4
CONCRETE SUPERSTRUCTURE	CU YD	50.6
PROTECTIVE COAT	SQ YD	192
REINFORCEMENT BARS, EPOXY COATED	POUND	6220
BAR SPLICERS	EACH	28
PARAPET RAILING	FOOT	145
PREFORMED JOINT STRIP SEAL	FOOT	125



STAGE I CONSTRUCTION (Looking North)



STAGE II CONSTRUCTION (Looking North)

GENERAL NOTES

Slipforming of parapets shall not be allowed.

Reinforcement bars designated (E) shall be epoxy coated.

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 the scope of work.

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

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°.

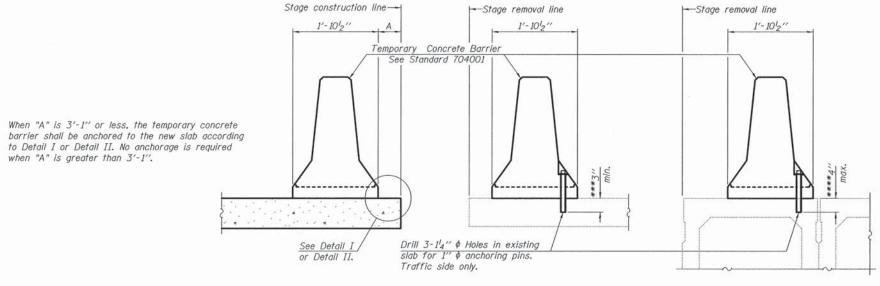
Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose and potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

1001		USER NAME = bhenrichs	DESIGNED - JEH	REVISED - 1 2/26/2016
FSI	ESI CONSULTANTS, LTD.		DRAWN - JEH	REVISED - ENTIRE SHEET
	EARLY THE	PLOT SCALE = 3:0.0001 ':" / in.	CHECKED - CMW	REVISED -
Excellence, Service, Integrity	CLUMING DEPARTMENT OF PRESIDENT A	PLOT DATE = 2/25/2016	DATE - 2/25/2016	REVISED -

	ST				N DETAILS	3	F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		STRUC	TUR	RE NO. 0	16-0289		-	13-00270-00-CH	COOK	393	318
									CONTRACT	NO.	61C32
SCALE:	SHEET	2 OF	8	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		







NEW SLAB

NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (J) I'' x 7' 'x 'W'' steel ₧ to the top layer of couplers with 2-5g'' \$\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 1 to the concrete slab or concrete wearing surface with 2-5g" \$\phi\$

Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathbb{L}\$ of each barrier panel.

Cost of retainer assembly 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

EXISTING SLAB

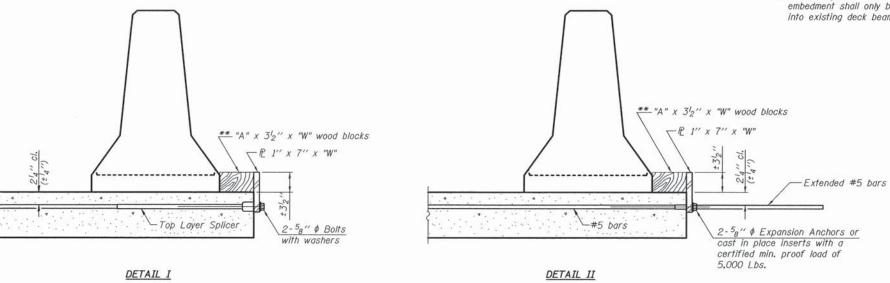
*** Dimension shown is minimum required embedment into concrete.

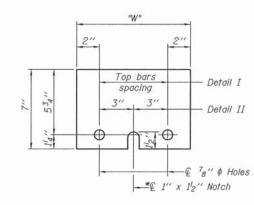
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

EXISTING DECK BEAM

SCALE:

**** 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.





STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

RETAINER ASSEMBLY

** 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.

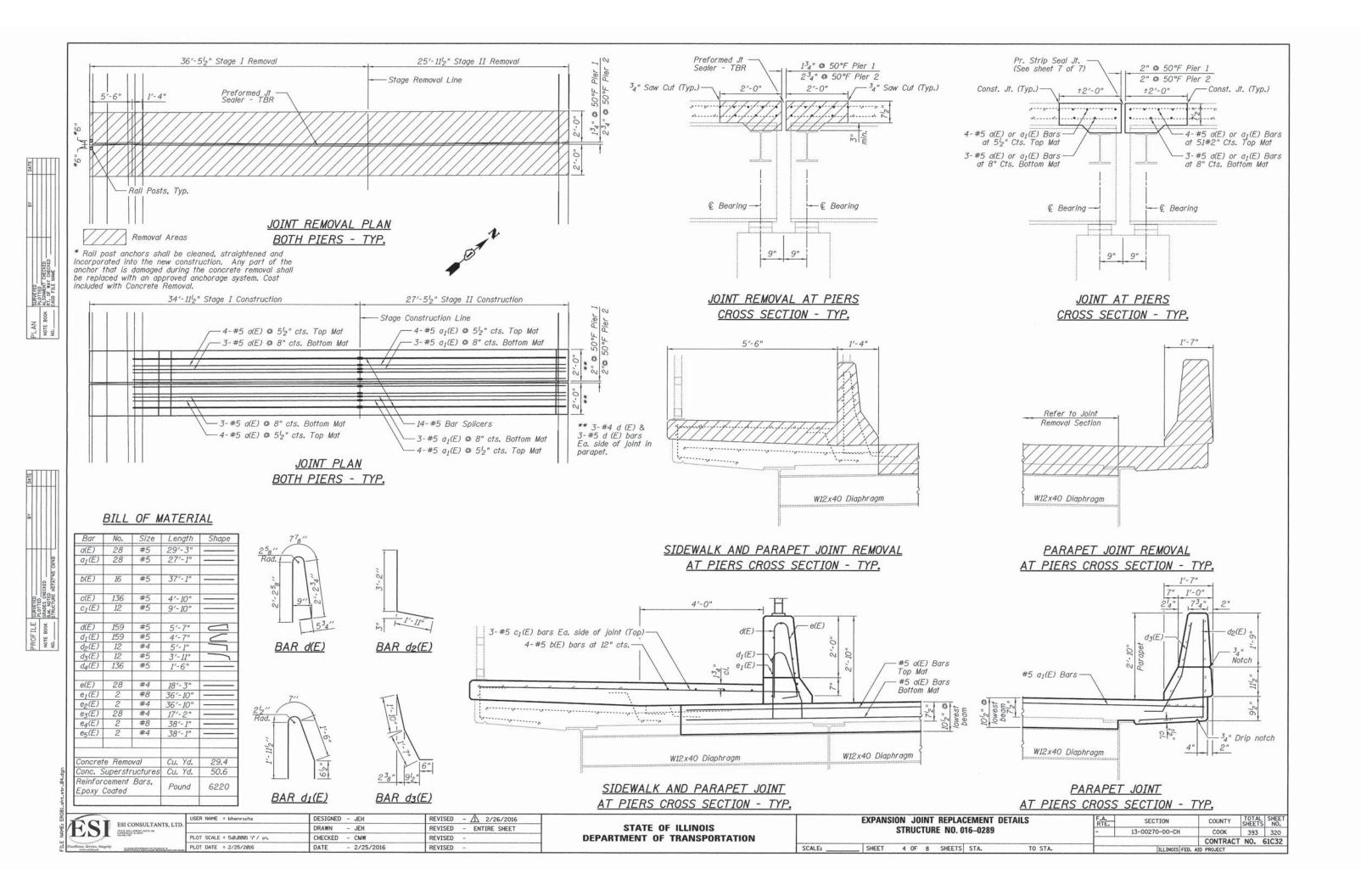
R-27

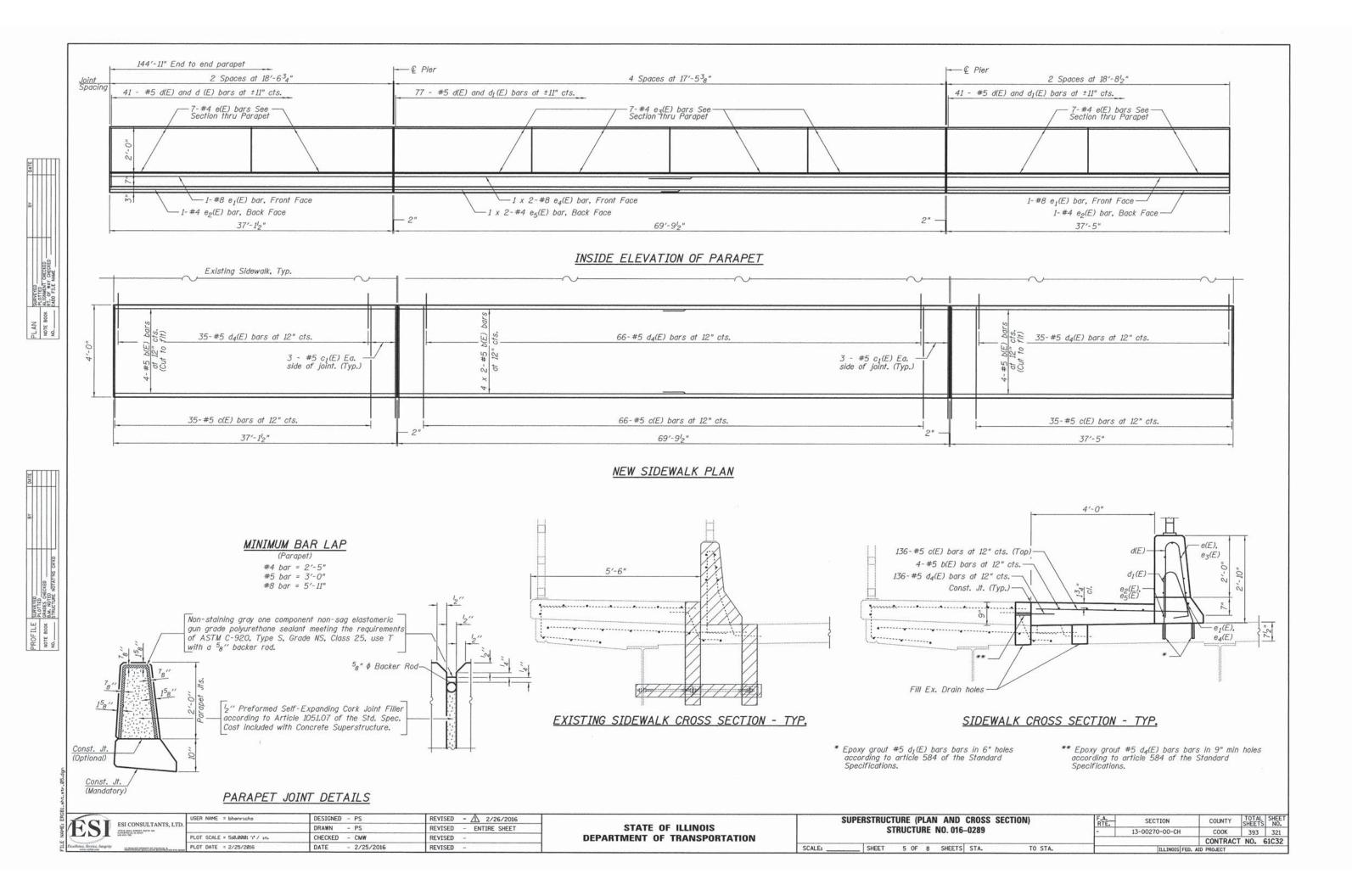
1-12-15

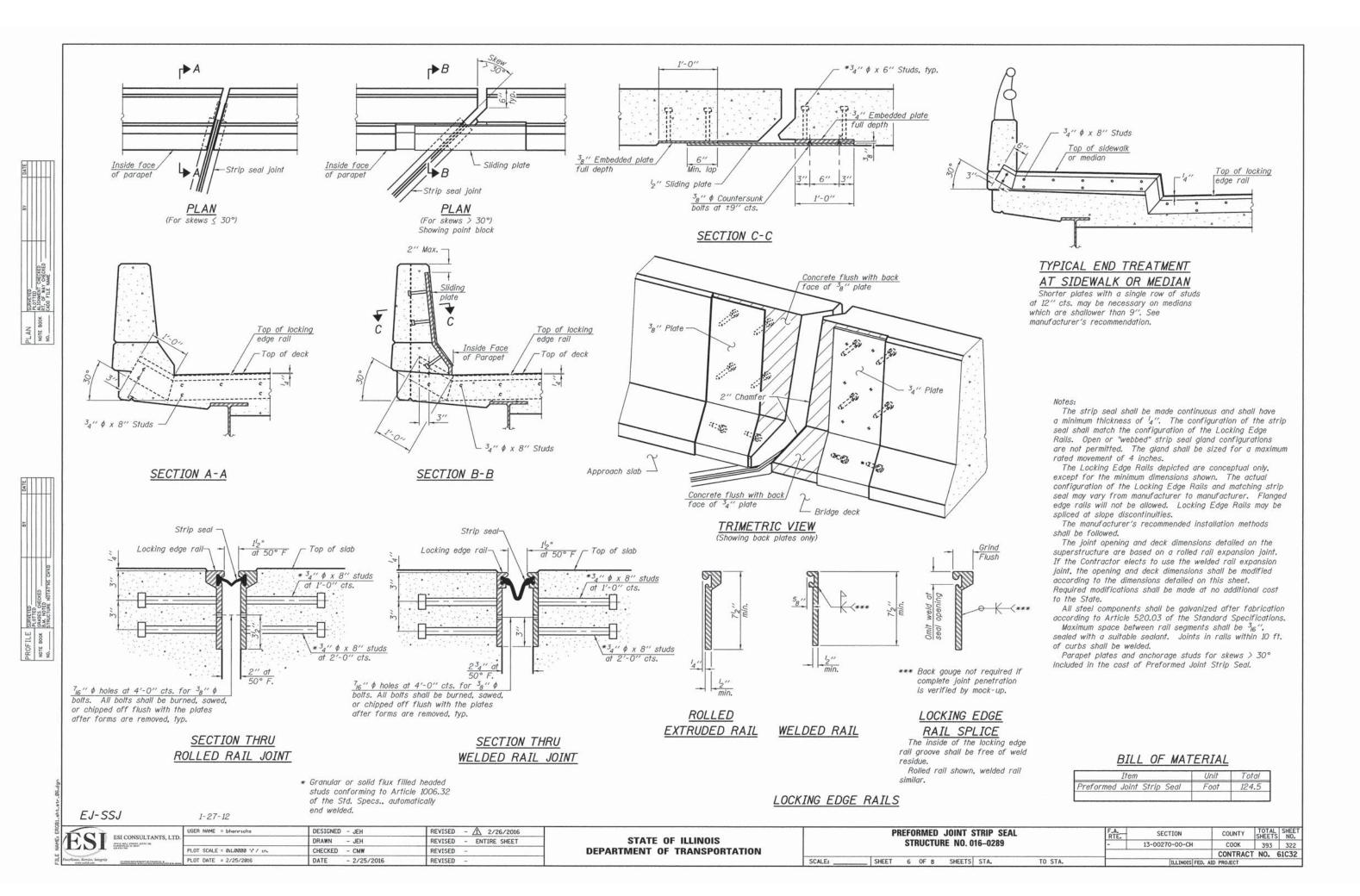
ESSI ESI CONSULTANTS, LTD

	USER NAME = bhenrichs	DESIGNED - JEH	REVISED - A 2/26/2016
rs, ltd.		DRAWN - JEH	REVISED - ENTIRE SHEET
	PLOT SCALE = 0:1.0000 't' / in.	CHECKED - CMW	REVISED -
C. A.	PLOT DATE = 2/25/2016	DATE - 2/25/2016	REVISED -

TEMPORARY BARRIER DETAILS							F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
STRUCTURE NO. 016-0289							-	13-00270-00-CH	COOK	393	319
 									CONTRACT	NO.	61C32
SHEET	3	OF	8	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	7.000	





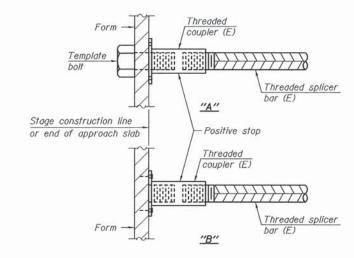


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1_2^{\prime\prime}$ + thread length

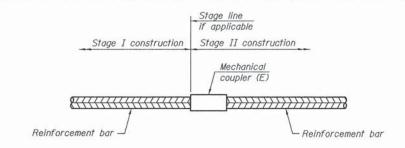
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Pier 1	5	14	3'-6"
Pier 2	5	14	3'-6"
	+		
		-	



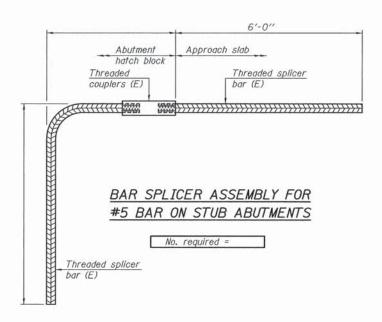
INSTALLATION AND SETTING METHODS

"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



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

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

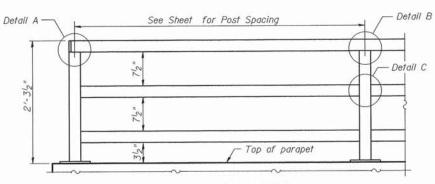
6-8-15

JSER NAME = bhenrichs DESIGNED - JEH REVISED - 1 2/26/2016 ESI CONSULTANTS, LT DRAWN - JEH REVISED - ENTIRE SHEET PLOT SCALE = 0:1.0000 ':' / in-CHECKED - CMW REVISED PLOT DATE = 2/25/2016 DATE - 2/25/2016 REVISED

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS COUNTY TOTAL SHEET NO. SECTION STRUCTURE NO. 016-0289 13-00270-00-CH COOK 393 322A CONTRACT NO. 61C32 SHEET 7 OF 8 SHEETS STA.

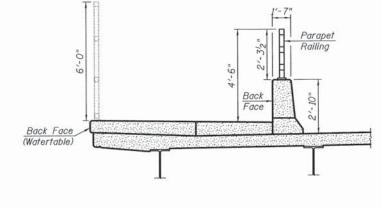






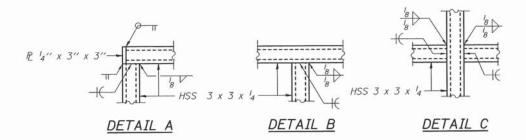
PARAPET RAILING ELEVATION

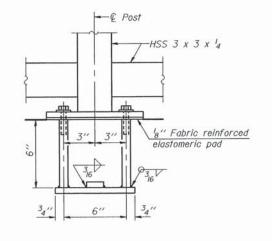
(Inside Face of Three Element Rail)

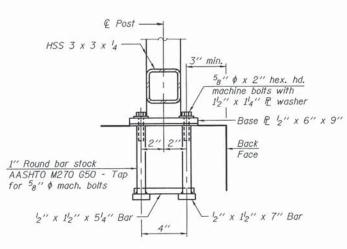


SECTION THRU SIDEWALK

SCALE:







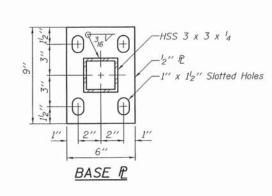
Note:

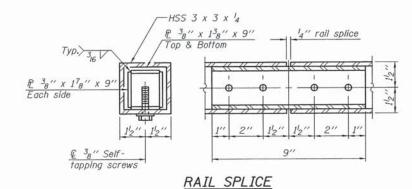
When railing is galvanized:

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

ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $^58''$ ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.





(10'-0" Maximum Post Spacing)

3	-		USER NAME = bhenrichs	DESIGNED - JEH	REVISED - 1 2/26/2016
i	ESI	ESI CONSULTANTS, LTD.		DRAWN - JEH	REVISED - ENTIRE SHEET
	LOI	HAPEN W. MILL STROPT, SLITE 100 HAPEN VILLE, IL MOTED HAEL 42E J 700	PLOT SCALE = 0:1.0000 ':' / in-	CHECKED - CMW	REVISED -
1	Excellence, Service, Integrity	IN COMMANDES OF STREET, Associate associate	PLOT DATE = 2/25/2016	DATE - 2/25/2016	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	PARAPET RAILING DETAIL							F.A. RTE.	SECTION 13-00270-00-CH	COUNTY	TOTAL SHEETS 393	SHEET NO. 322B
STRUCTURE NO. 016-0289						16-0289						
					SUN DESIGNATION					CONTRACT	NO.	61C32
	SHEET	8	OF	8	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	145