

INDEX OF SHEETS

GENERAL NOTES

THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN FAYETTE, EFFINGHAM, JASPER, CRAWFORD, CLAY, RICHLAND, LAWRENCE, WAYNE, EDWARDS AND WABASH COUNTIES LOCATED WITHIN REGION 4-DISTRICT 7. THE WORK INCLUDED IN THIS SECTION CONSISTS OF MAINTAINING AND REPAIRING THE ELECTRICAL HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEM DEVICES, FIBER OPTIC CABLE, AND ELECTRICAL HIGHWAY WARNING SYSTEMS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

ALL WORK IS TO BE REPLACED IN KIND OR, AS INDICATED ON THE CONTRACT PLANS OR PROVISIONS.

THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER.

REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.

NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.

ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR; APPROPRIATE STANDARDS ARE LISTED ON THIS SHEET UNDER THE INDEX OF SHEETS.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (PH. 800-892-0123) OR FOR NON-MEMBER. THE UTILITY COMPANY DIRECTLY. ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E.) SYSTEM AND MUST BE CONTACTED DIRECTLY.

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERCEDE ANY METRIC UNITS IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE FOR THIS PROJECT TO THE CONTRACTOR.

ANY WORK ORDER MAY BE CANCELLED AT THE ENGINEER'S DISCRETION.

NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

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RAL NOTES

PART OF THESE PLANS AND ARE ABBREVIATIONS AND PATTERNS IS, 2L, 2W, MORE THAN 15' AWAY S, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE ERATION, 2L, 2W, DAY ONLY S, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE S. MULTILANE. MORE THAN 15' AWAY 2W, DAY ONLY, FOR SPEEDS >/= 45 MPH 2W. NIGHT ONLY FOR SPEEDS >/= 45 MPH 2W. SHORT TIME OPERATIONS LOSURE, FREEWAY/EXPRESSWAY WAY/EXPRESSWAY WAY/EXPRESSWAY, DAY OPERATIONS ONLY ILANE, AT ENTRANCE OR EXIT RAMP. 5 MPH ILANE, DAY OPERATIONS ONLY, FOR TO 55 MPH ILANE. INTERMITTENT OR MOVING OPER .. MPH ILANE, INTERMITTENT OR MOVING OPERATION. 0 MPH TUP AND REMOVAL FREEWAY/EXPRESSWAY CLOSURE FREEWAY/EXPRESSWAY 2L. 2W UNDIVIDED 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE MULTILANE. 1W OR 2W WITH NONTRAVERSABLE MEDIAN MULTILANE, 2W, WITH BIDIRECTIONAL LEFT TURN LANE MULTILANE, 2W WITH MOUNTABLE MEDIAN OSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN MULTILANE INTERSECTION R CROSSWALK CLOSURE VICES

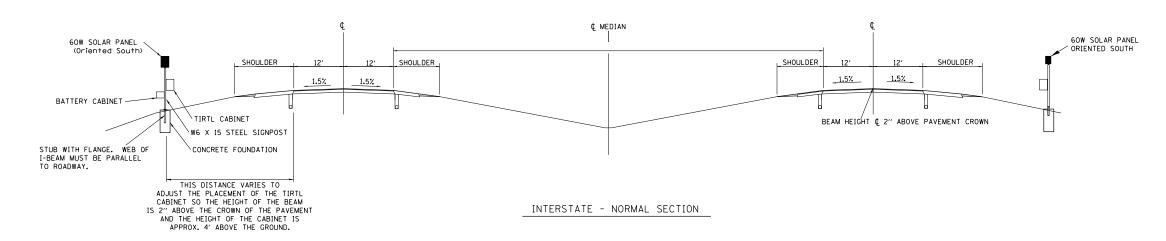
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* D7 ELECTRICAL REPAIRS 2019-1

			STATE						STATE	CONSTRUCTION TYPE CODE			
	SUMMARY OF QUANTITIES		TOTAL	0043	0021		SUMMARY OF QUANTITIE	S	TOTAL	0043	0021		
CODE NO	ITEM	UNIT	QUANTITIES			CODE NO	ITEM	UNIT	QUANTITIES				
						X0327497	PICK-UP TRUCK	HOUR	1000	1000			
72700100	STRUCTURAL STEEL SIGN SUPPORT-BREAKAWAY	POUND	520		520								
						X0327498	BUCKET TRUCK (LENGTH LESS THAN 35 FEET)	HOUR	100	100			
81028730	UNDERGROUND CONDUIT, COILABLE	FOOT	10		10								
	NONMETALLIC CONDUIT, 1 1/4" DIA.					X0327499	BUCKET TRUCK (LENGTH 35 TO 65 FEET)	HOUR	500	500			
81028770	UNDERGROUND CONDUIT, COILABLE	FOOT	10		10	x0327500	ARROWBOARD (TRAILER MOUNTED)	HOUR	20	20			
	NONMETALLIC CONDUIT, 3" DIA.												
						x0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	40	40			
86300300	CONTROLLER CABINET TYPE III	EACH	1		1								
						X8730810	ELECTRIC CABLE IN CONDUIT, CONOGA-30003	FOOT	100		100		
87800200	CONCRETE FOUNDATION, TYPE-D	FOOT	3.5		3.5								
87900200	DRILL EXISTING HANDHOLE	EACH	1		1								
88600100	DETECTOR LOOP. TYPE I	FOOT	154		154								
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	100		100								
X0301242	PIEZO AXLE SENSOR, CLASS II	FOOT	12		12								
X0323388	TRAFFIC COUNTER	EACH	1		1								
X0327116	SOLAR POWER ASSEMBLY	EACH	1		1								
X0327495	JOURNEY MAN ELECTRICIAN	HOUR	1200	1200									
X0327496	APPRENTICE ELECTRICIAN	HOUR	100	100									

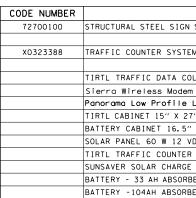
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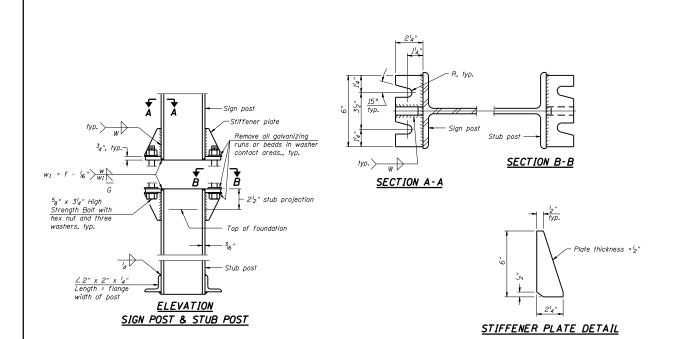
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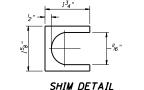


NOTES:

- 1. SYSTEM CONSISTS OF TWO W6 X 15 I-BEAM SIGNPOSTS WITH CONCRETE FOUNDATION AND A FLANGE WITH BREAKAWAY BOLTS
- THE I-BEAMS ARE 12' LONG AND DRILLED AS PER THE I-BEAM DETAIL TO ACCOMODATE A PIPE TO ALLOW THE MOUNTING OF THE SOLAR PANEL.
- 3. THE WEB OF THE I-BEAM IS TO BE PLACED PARALLEL TO THE LANES.
- 4. THE TWO POSTS MUST BE PLACED DIRECTLY ACROSS FROM EACH OTHER AND PERPENDICULAR TO THE LANES.
- 5. TWO POSTS ARE REQUIRED LOCATED AS PER THE ENGINEER AND DRAWING.
- 6. THE CABINETS ARE ATTACHED TO THE I-BEAM USING 8" GALVANIZED J-BOLTS.
- 7. THE BOTTOM OF THE CABINET HEIGHT MUST BE NO LOWER THAN 4' ABOVE THE GROUND AND BE ABLE TO VIEW ACROSS ALL LANES AT THE CROWN OF THE PAVEMENT.
- 8. THE IDOT OFFICE OF PLANNING AND PROGRAMMING DATA MANAGEMENT LAB RICH MARX (217-782-2065) MUST BE NOTIFIED TWO WEEKS PRIOR TO ANY WORK BEING DONE TO ENSURE PROPER POST PLACEMENT.







SHIM DETAIL Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign. DESIGN STRESSES:

Structural steel - 20,000 p.s.i. Reinforcing steel - 20,000 p.s.i. Concrete - 1,400 p.s.i. Footing soil pressure - 2,000 p.s.f.

After fabrication, the post and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

BREAK-AWAY WIDE FLANGE STEEL POST DETAILS

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TIRTL TRAFFIC COUNTER SCHEDULE OF QUANTITIES (FOR INFORMATION ONLY)

ITEM	UNIT	QUANTITY
SUPPORT - BREAKAWAY	POUND	520
M (INCLUDES BELOW)	EACH	1
LLECTION SYSTEM INCLUDES:		
n RV-50	EACH	1
LTE MiMo LGAM-BC3G-26-3SP Antenna	EACH	1
7" X 16"	EACH	2
X 16" X 11.5" BBA1M w/ #2 Police Lock	EACH	1
'DC with Bracket and junction box	EACH	2
	EACH	1
REGULATOR 10 AMP 12 VDC	EACH	2
BED ELECTROLYTE 8" X 5.5" X 7" (DEEP CYCLE	EACH	1
ED ELECTROLYTE 10" X 6" X 8" (DEEP CYCLE) EACH	1

