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HIGHWAY STANDARDS

701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-04	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-05	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45MPH
701422-02	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45MPH TO 55MPH
701446-01	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
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701901-01	TRAFFIC CONTROL DEVICES
878001-08	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

- REMOVAL AND REINSTALLATION OF FENCE MAY BE REQUIRED TO ACCOMODATE EQUIPMENT THAT PUSHES CONDUIT ACROSS THE EXPRESSWAY. THIS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO GALVANIZED STEEL CONDUIT PUSHED 2" OR 4".
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF CABINETS AND FIBER OPTIC CABLE PRIOR TO BIDDING THE JOB. GPS LOCATIONS HAVE BEEN ADDED TO THE PLANS TO ASSIST IN FINDING THE CABINET LOCATIONS.
- THERE EXISTS ENVIRONMENTALLY SENSITIVE AREAS ALONG THIS JOB. CARE MUST BE TAKEN NOT TO REMOVE PLANT LIFE FROM THESE AREAS.
- THERE WILL BE CONCURRENT ROAD WORK WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEERS OF THOSE PROJECTS TO PROVIDE THE MOST EFFICIENT AND COST EFFECTIVE INSTALLATION OF EQUIPMENT, AND CONDUITS.
SOME OF THESE PROJECTS INCLUDE:
ARSENAL ROAD RECONSTRUCTION, (60C31 AND 60F12) RESURFACING FROM I-80 TO SOUTH OF LORENZO ROAD (60K04 AND 60I53), AND CCTV CAMERA INSTALLATION (60E01).
- THE CONTRACTOR SHALL COORDINATE IT'S OPERATIONS WITH THE CCTV CONTRACTOR (ADRIDGE ELECTRIC). IF THE CCTV CAMERA POLES HAVE NOT BEEN SET PRIOR TO THIS JOB, THE CONTRACTOR SHALL BRING THE CONDUIT TO A LOCATION THAT THE CCTV CONTRACTOR WILL DESIGNATE.
- MAINLINE SPLICES SHALL UTILIZE 2 COMMUNICATION VAULTS (ONE NEXT TO THE OTHER UNLESS OTHERWISE NOTED). 1-96 SM FIBER MAINLINE SPLICE IN ONE VAULT AND THE OTHER 96 SM FIBER MAINLINE SPLICE IN THE OTHER VAULT. ALL VAULTS SHALL HAVE 200 FEET OF SLACK, FOR EACH 96 SM FIBER OPTIC CABLE, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL USE 2 DETECTOR RACKS WHEN THERE ARE MORE THAN 16 LOOPS ENTERING A SURVEILLANCE CABINET.
- THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND EQUIPMENT AS THERE ARE EXISTING PRIVATELY OWNED UTILITIES WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST UTILITY LOCATES. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ELECTRICAL MAINTENANCE ENGINEER (JERRY LACOMIAK OF MEADE ELECTRIC (708)524-2145) TO LOCATE CONDUIT FROM EXISTING LIGHTING CABINETS.
- THE CONTRACTOR SHALL BE AWARE OF THE DOCUMENTATION REQUIREMENTS WHICH REQUIRE GPS DATA ACQUISITION.
- ALL RACEWAYS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES.
- THE CONTRACTOR SHALL TEST ALL INDUCTION LOOPS PRIOR TO PULLING CABLE TO THE CABINET ACCORDING TO THE INDUCTION LOOP SPEC. THE CONTRACTOR SHALL ALSO TEST THE LOOPS AFTER THEY ARE INSTALLED IN CABINET.
- THERE EXISTS 150FT. OF LOOP WIRE IN THE ADJACENT HAND HOLE (CONTRACT 60K04 AND 60I53). IF THE RUN IS LESS THAN 150FT. TO THE CABINET, THE LOOP WIRE SHALL BE PULLED THROUGH THE CONDUIT AND BE PAID AS INSTALL EXISTING CABLE IN CONDUIT. IF THE RUN IS GREATER THAN 150FT. TO THE CABINET, THEN A 4C #18 TWISTED SHIELDED CABLE SHALL BE SPLICED TO THE LOOP WIRE IN THE HAND HOLE AND PULLED TO THE CABINET.
- WHEN TWO LOOPS ARE IN ONE LANE, THEY SHALL BE 16FT. APART CENTER TO CENTER.

LEGEND:

- 42"x36"x12" JUNCTION BOX
- COMMUNICATION VAULT
- HEAVY DUTY HAND HOLE
- HEAVY DUTY HAND HOLE SPECIAL (COMMUNICATIONS)
- TYPE 334 CABINET
- TYPE 334 CABINET WITH SPREAD SPECTRUM RECEIVER
- (2) 1 1/4 IN. FIBER OPTIC INNER DUCT - EACH HAS 96 SM FIBERS
- 2 IN. P-DUCT TRENCHED (T)
- CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- GALVANIZED RIGID STEEL CONDUIT TRENCHED (T), TYPE AND SIZE AS NOTED
- GALVANIZED RIGID STEEL CONDUIT PUSHED (P), TYPE AND SIZE AS NOTED
- ELECTRIC SERVICE DISCONNECT
- 6 FT. DIAMETER INDUCTION LOOP CENTERED IN LANE
- 6 FT. X 14 FT. (NOMINAL) RAMP INDUCTION LOOP (SEE RAMP LOOP TABLE IN INDUCTION LOOP SPEC FOR ACTUAL SIZE)
- 6 FT. DIAMETER (NOMINAL) MAINLINE, COUNT, CLASSIFICATION, SPEED INDUCTION LOOPS
- 6 FT. X 14 FT. (NOMINAL) COUNT, CLASSIFICATION, SPEED INDUCTION LOOPS (SEE RAMP LOOP TABLE IN INDUCTION LOOP SPEC FOR ACTUAL SIZE)
- 2 LANE SOLAR POWERED SPREAD SPECTRUM RADAR VEHICLE DETECTOR
- 1 LANE SOLAR POWERED SPREAD SPECTRUM RADAR VEHICLE DETECTOR
- EXISTING CCTV CAMERA (CONTRACT 60E01)
- TYPE 3 CCTV CABINET
- MODEL 334 PATCH PANEL CABINET
- LIGHTING CABINET
- INSTALL CCTV CAMERA

ABBREVIATIONS

PREFIX	COMPONENT	PREFIX	COMPONENT
ADF	ADD/DROP, FIBER OPTIC (CWDM OR OTHER)	PLP	PULLING PEDESTAL
CAX	COAX CABLE	PPC	PATCH PANEL, COPPER
CSC	CABLE SPLICE, COPPER	PPE	PATCH PANEL, ETHERNET
CSF	CABLE SPLICE, FIBER OPTIC	PPF	PATCH PANEL, FIBER
CTD	CCTV CAMERA, DOME	PPV	PATCH PANEL, VIDEO
CTF	CCTV CAMERA, FIXED POSITION	RMC	RADIO, MICROWAVE, CONTROL (UNLICENSED)
CBT	CHANNEL BANK, T1	RMV	RADIO, MICROWAVE, VIDEO (UNLICENSE)
CCC	CONTROL CABLE, COPPER	RXF	RECEIVER, FIBER OPTIC
CVB	CONTROLLER, VIDEO, BACKUP	RXT	RECEIVER, FSK TONE
CVP	CONTROLLER, VIDEO, PRIMARY	SCF	SPLITTER/COMBINER, FIBER OPTIC (CWDM)
DAV	DISTRIBUTION AMPLIFIER, VIDEO	SPV	SIGNAL SPLITTER, VIDEO
DCC	DISTRIBUTION CABLE, COPPER	SSV	SELECTOR SWITCH, VIDEO (MANUAL)
DCF	DISTRIBUTION CABLE, FIBER OPTIC	SWE	SWITCH, ETHERNET
DEC	DECODER (CODEC MPEG2)	SWV	SWITCH, VIDEO
DMS	DYNAMIC MESSAGE SIGN	TCC	TRUNK CABLE, COPPER
VRD	VIDEO RECORDER, DIGITAL	TCF	TRUNK CABLE, FIBER OPTIC
ENC	ENCODER (CODEC MPEG2)	TLC	TLC WATCH EQUIPMENT
ETH	ETHERNET CABLE	TXF	TRANSMITTER, FIBER OPTIC
HHL	HANDHOLE	TXT	TRANSMITTER, FSK TONE
JBC	JUNCTION BOX, CONTROL (COPPER)	VCD	VIDEO CAPTURE DEVICE
JBF	JUNCTION BOX, FIBER OPTIC CABLE	VCL	VIDEO CONTROL LOCATION
JBP	JUNCTION BOX, POWER	VCP	VIDEO COLLECTION POINT
KBD	KEYBOARD	WST	USER WORK STATION
LDI	LOOP DETECTOR, INDUCTION		
LDM	LOOP DETECTOR, MICROLOOP		
MDF	MUX/DEMUX, FIBER (CWDM)		
MON	MONITOR, COMPUTER		
MVD	MONITOR, VIDEO		
MVR	MONITOR, VIDEO, FLAT PANEL RACK (LCD RACK)		
MXS	MULTIPLEXER, SONET		
PCE	PATCH CABLE, ETHERNET		
PCF	PATCH CABLE, FIBER		

FILE NAME =	USER NAME = wjngam	DESIGNED -	REVISED - 03/11/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CABLE INSTALLATION - I-55 (LORENZO ROAD TO I-80) INDEX OF SHEETS, STANDARDS & NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = #SCALE#	CHECKED -	REVISED -	CONTRACT NO. 60J24								
PLOT DATE = 4/20/2010	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
					SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA.	TO STA.			