6-11-10 LETTING ITEM 182

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112-I	WILL	56 *	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60J24		

D-91-214-10

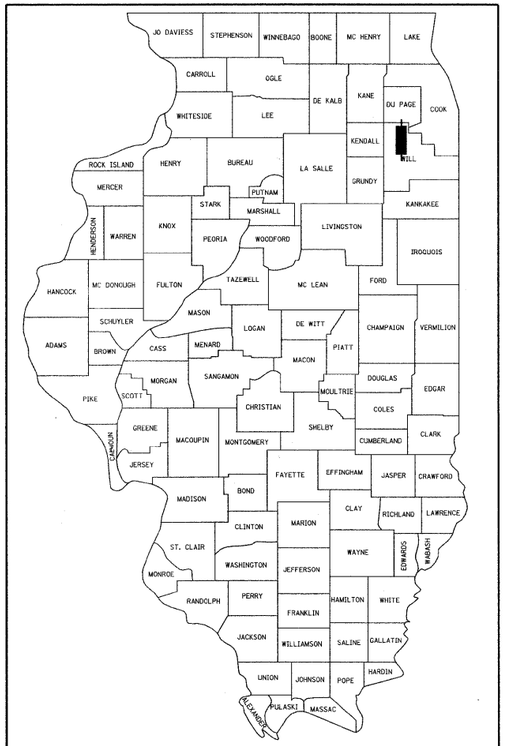
* 56+4=60

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

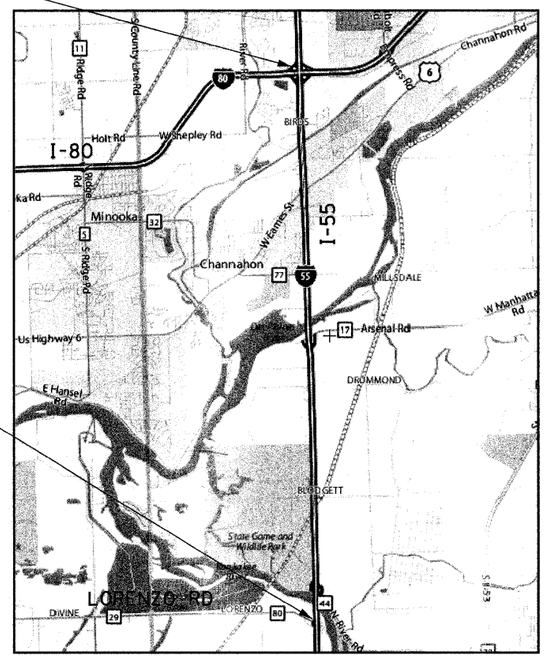
DISTRICT 1
FIBER OPTIC CABLE INSTALLATION FOR HIGHWAY SURVEILLANCE
I–55
FROM LORENZO ROAD
TO I–80
FAI ROUTE 55
SECTION 2009–112 I
PROJECT NO. CMI-055-6(244)241
WILL COUNTY
C–91–214–10



LOCATION OF SECTION INDICATED THUS: – ■ –

END PROJECT

BEGIN PROJECT



PREPARED BY: Steven Trivisonno 3/19/2010
TRAFFIC ENGINEER DATE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 19 20 10
Dawn M. O'Keefe /DD
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 20 10
Scott E. Stitt, P.E. /a
acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 20 10
Christine M. Reed /a
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60J24

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, HIGHWAY STDS, GENERAL NOTES
3A.	SUMMARY OF QUANTITIES
4-27	INSTALLATION PLANS
28	FIBER OPTIC ROUTE DIAGRAM
29	SPSSRVDS LAYOUT
30	CONDUIT CROSSING DETAIL
31	WIRING DIAGRAMS
32-59	DISTRICT STANDARDS

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
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-01	TRAFFIC CONTROL DEVICES
878001-08	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

1. 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".

2. 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.

3. THERE EXISTS ENVIRONMENTALLY SENSITIVE AREAS ALONG THIS JOB. CARE MUST BE TAKEN NOT TO REMOVE PLANT LIFE FROM THESE AREAS.

4. 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).

5. 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.

6. 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.

7. THE CONTRACTOR SHALL USE 2 DETECTOR RACKS WHEN THERE ARE MORE THAN 16 LOOPS ENTERING A SURVEILLANCE CABINET.

8. 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.

9. THE CONTRACTOR SHALL BE AWARE OF THE DOCUMENTATION REQUIREMENTS WHICH REQUIRE GPS DATA ACQUISITION.

10. ALL RACEWAYS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES.

11. 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.

12. 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.

13. 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)
- 3 TYPE 3 CCTV CABINET
- PP MODEL 334 PATCH PANEL CABINET
- LIGHTING CABINET
- INSTALL CCTV CAMERA

ABBRIVIATIONS

PREFIX	COMPONENT
ADF	ADD/DROP, FIBER OPTIC (CWDM OR OTHER)
CAX	COAX CABLE
CSC	CABLE SPLICE, COPPER
CSF	CABLE SPLICE, FIBER OPTIC
CTD	CCTV CAMERA, DOME
CTF	CCTV CAMERA, FIXED POSITION
CBT	CHANNEL BANK, T1
CCC	CONTROL CABLE, COPPER
CVB	CONTROLLER, VIDEO, BACKUP
CVP	CONTROLLER, VIDEO, PRIMARY
DAV	DISTRIBUTION AMPLIFIER, VIDEO
DCC	DISTRIBUTION CABLE, COPPER
DCF	DISTRIBUTION CABLE, FIBER OPTIC
DEC	DECODER (CODEC MPEG2)
DMS	DYNAMIC MESSAGE SIGN
VRD	VIDEO RECORDER, DIGITAL
ENC	ENCODER (CODEC MPEG2)
ETH	ETHERNET CABLE
HHL	HANDHOLE
JBC	JUNCTION BOX, CONTROL (COPPER)
JBF	JUNCTION BOX, FIBER OPTIC CABLE
JBP	JUNCTION BOX, POWER
KBD	KEYBOARD
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

PREFIX	COMPONENT
PLP	PULLING PEDESTAL
PPC	PATCH PANEL, COPPER
PPE	PATCH PANEL, ETHERNET
PPF	PATCH PANEL, FIBER
PPV	PATCH PANEL, VIDEO
RMC	RADIO, MICROWAVE, CONTROL (UNLICENSED)
RMV	RADIO, MICROWAVE, VIDEO (UNLICENSE)
RXF	RECEIVER, FIBER OPTIC
RXT	RECEIVER, FSK TONE
SCF	SPLITTER/COMBINER, FIBER OPTIC (CWDM)
SPV	SIGNAL SPLITTER, VIDEO
SSV	SELECTOR SWITCH, VIDEO (MANUAL)
SWE	SWITCH, ETHERNET
SWV	SWITCH, VIDEO
TCC	TRUNK CABLE, COPPER
TCF	TRUNK CABLE, FIBER OPTIC
TLC	TLC WATCH EQUIPMENT
TXF	TRANSMITTER, FIBER OPTIC
TXT	TRANSMITTER, FSK TONE
VCD	VIDEO CAPTURE DEVICE
VCL	VIDEO CONTROL LOCATION
VCP	VIDEO COLLECTION POINT
WST	USER WORK STATIION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
INDEX OF SHEETS, STANDARDS & NOTES

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	2
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE WILL Y032-1F	DUPAGE Y032-1F	COOK Y032-1F
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9		
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1		
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3428	3428		
81016600	CONDUIT IN TRENCH, HIGH DENSITY POLYETHYLENE, COILABLE (2" DIA.)	FOOT	4279	4279		
81018500	CONDUIT PUSHED, 2" DIAMETER, GALVANIZED STEEL	FOOT	2538	2538		
81018900	CONDUIT PUSHED, 4" DIAMETER, GALVANIZED STEEL	FOOT	1713	1713		
81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	4526	4526		
81300520	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 12" X 8" X 6"	EACH	2	2		
81300960	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12"	EACH	22	22		
81400200	HEAVY-DUTY HANDHOLE	EACH	17	17		
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK (IN CONDUIT)	FOOT	46275	46275		
87000130	ELECTRIC CABLE ASSEMBLY 600V (EPR-TYPE TC) 2/C NO. 4 AND NO. 10 GROUND	FOOT	861	861		
87000140	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 2 AND NO. 8 GROUND	FOOT	4385	4385		
88500100	INDUCTIVE LOOP DETECTOR	EACH	88	88		
X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	5	5		
X0323907	COMMUNICATIONS VAULT	EACH	36	36		
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	15	15		
X0323917	CABINET, MODEL 334	EACH	10	10		
X0323957	FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	8	8		
X0324234	2070 LITE CONTROLLER	EACH	10	10		
X0324245	CONCRETE FOUNDATION, SURVEILLANCE CABINET, MODEL 334	EACH	9	9		
X0324248	DETECTOR RACK	EACH	11	11		
X0325040	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	87680	87680		
X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1		
X0326122	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 6 AND NO. 8 GROUND	FOOT	765	765		
X0326465	MODIFICATION OF EXISTING VIDEO DISTRIBUTION SYSTEM	L SUM	1	1		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1		
X8040310	ELECTRIC SERVICE DISCONNECT	EACH	9	9		
X8710035	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	109746	109746		
X8710052	FIBER OPTIC TERMINATION PANEL, 12 FIBER	EACH	13	13		
X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18, 4/C, TWISTED, SHIELDED	FOOT	16000	16000		
X0326266	ETHERNET SWITCH	EACH	18	18		
~~Z0076600~~	~~TRAINEES~~	~~HOUR~~	~~500~~	~~500~~		
X0326948	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT	EACH	5	5		
X0326949	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 30" DIAMETER FOUNDATION	FOOT	60	60		
X0326945	CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT	EACH	5	5		
X0326946	CLOSED CIRCUIT TELEVISION CAMERA INSTALLATION	EACH	5	5		
X0326947	CLOSED CIRCUIT TELEVISION CAMERA INSTALLATION ON BRIDGE STRUCTURE	EACH	2	2		
~~81100605~~	~~CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL~~	~~FOOT~~	~~240~~	~~240~~		
X8710036	FIBER OPTIC CABLE 12F SM	~~FOOT~~	~~15582~~	~~15582~~		
X0326950	INSTALL EXISTING ELECTRIC CABLE	FOOT	2580	2580		
X0326942	MODIFY EXISTING CLOSED CIRCUIT TELEVISION INSTALLATION FOR FIBER-OPTIC COMMUNICATIONS, FIBER	EACH	2	2		
X0326943	MODIFY EXISTING CLOSED CIRCUIT TELEVISION INSTALLATION FOR FIBER-OPTIC COMMUNICATIONS, ETHERNET	EACH	1	1		
X0326951	SOLAR POWERED SPREAD SPECTRUM RADAR VEHICLE DETECTOR SYSTEM (MEDIAN)	EACH	5	5		
X0326952	STEP-DOWN TRANSFORMER	EACH	1	1		
X0326953	SURVEILLANCE CABINET, MODEL 334 (PATCH PANEL)	EACH	1	1		
X0326954	TEMPORARY FIBER OPTIC CONNECTION	L SUM	1	1		
X0326941	TYPE 3 CABINET (CLOSED CIRCUIT TELEVISION)	EACH	3	3		
87800200	TYPE D FOUNDATION, (CONCRETE)	FOOT	32	32		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
SUMMARY OF QUANTITIES

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	3
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				WILL Y032-1F	DUPAGE Y032-1F	COOK Y032-1F
87000105	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V (EPR-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND	FOOT	1300	1300		
81100510	CONDUIT ATTACHED OT STRUCTURE, 1 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	1100	1100		
81300400	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 6" X 4"	EACH	3	3		
X0326964	FIBER OPTIC INTERCONNECT CABINET	EACH	1	1		
~~Z0076600~~	~~TRAINEE~~	~~HOUR~~				

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	PLOT DATE = 4/20/2010	DATE -	REVISED -					CONTRACT NO. 60J24		
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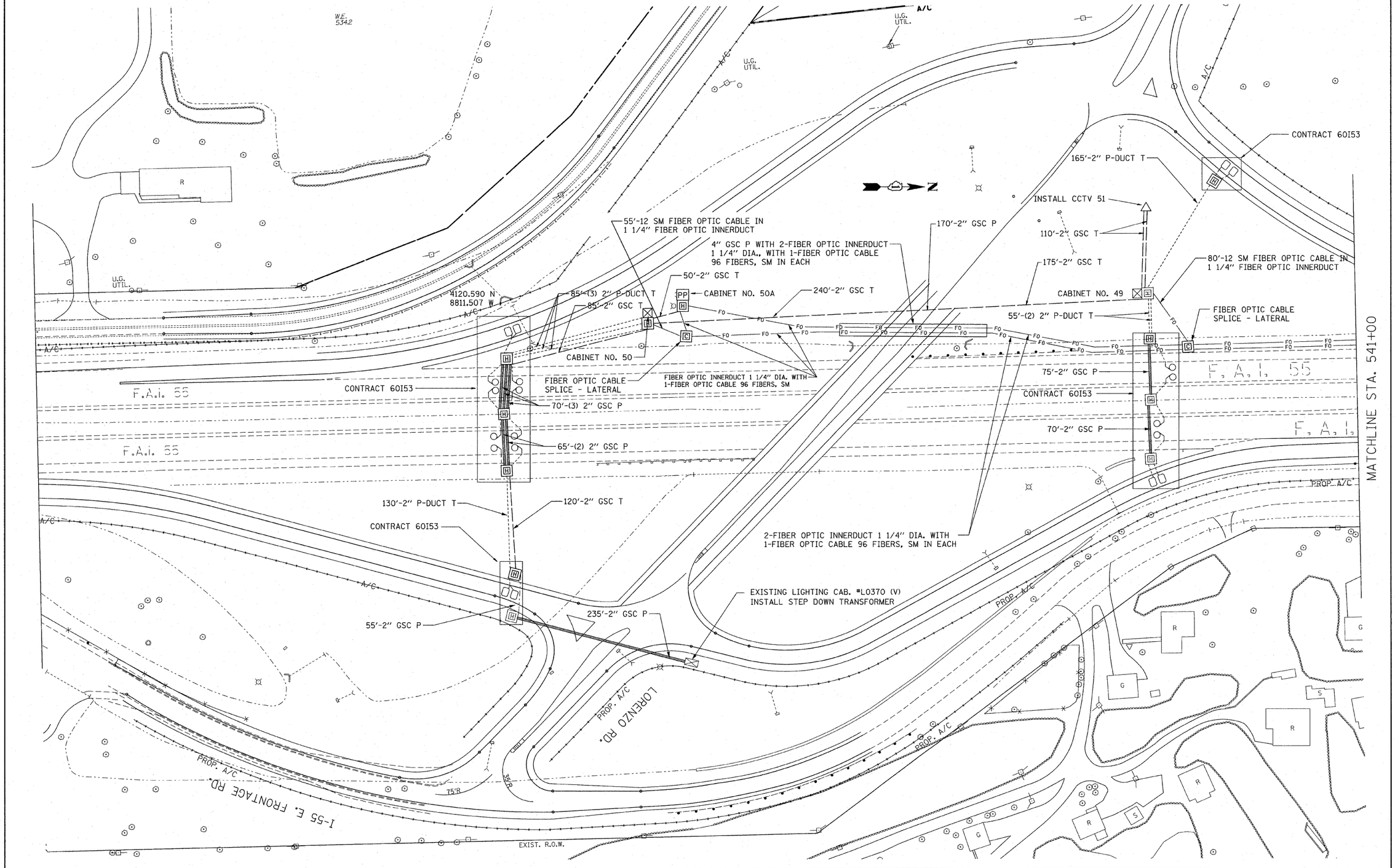

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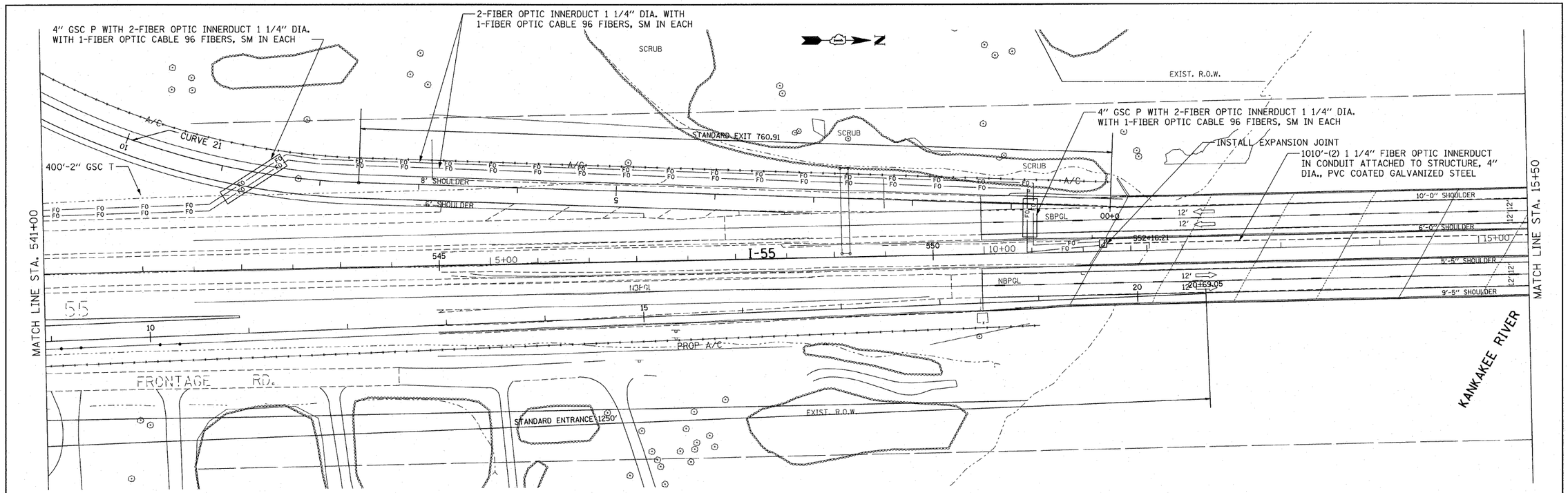
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CABINETS NO. 49 & 50 – LORENZO ROAD

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	4
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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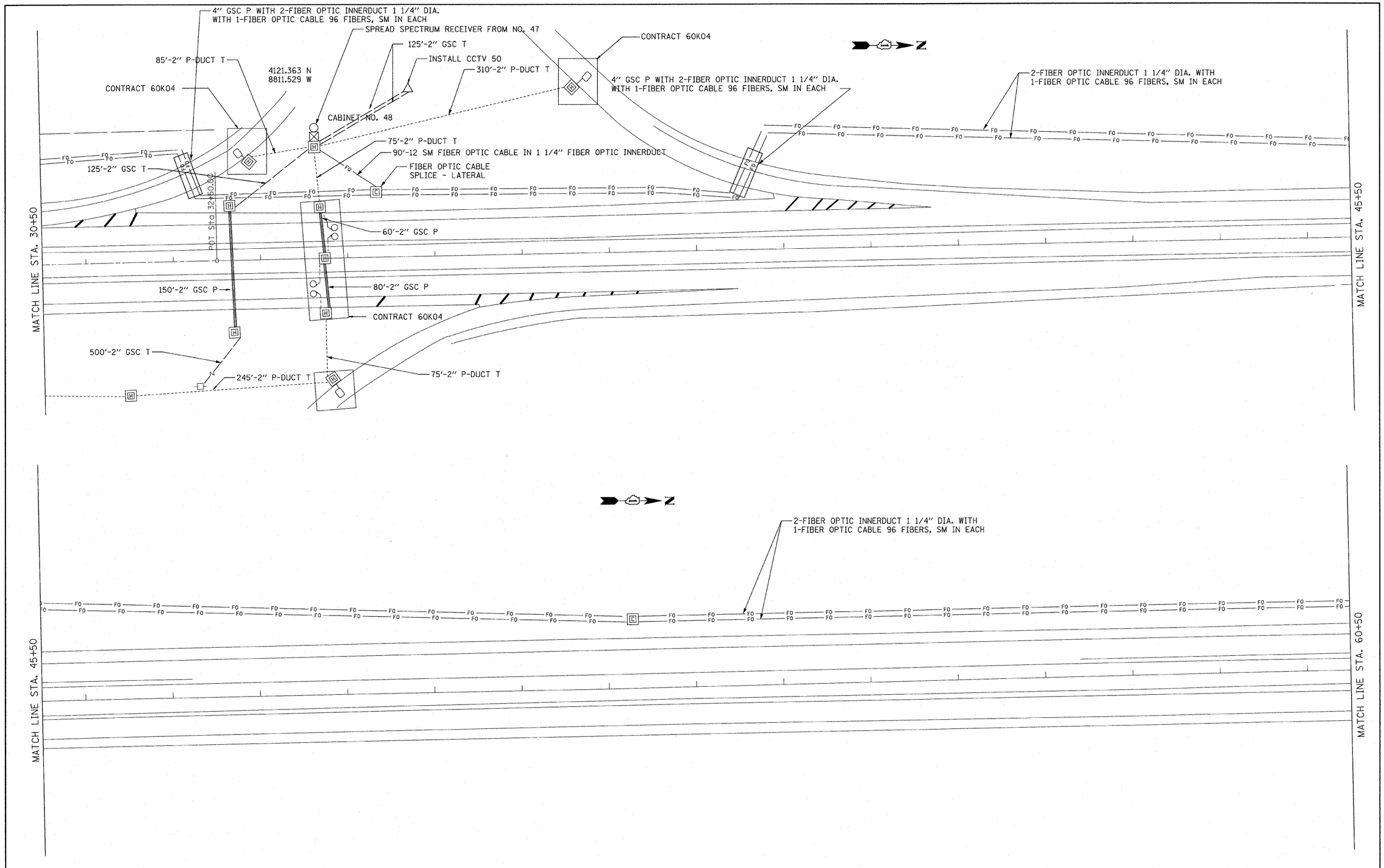
		DATE - 03/11/2010	REVISED -						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CABINET NO. 48 – RIVER ROAD

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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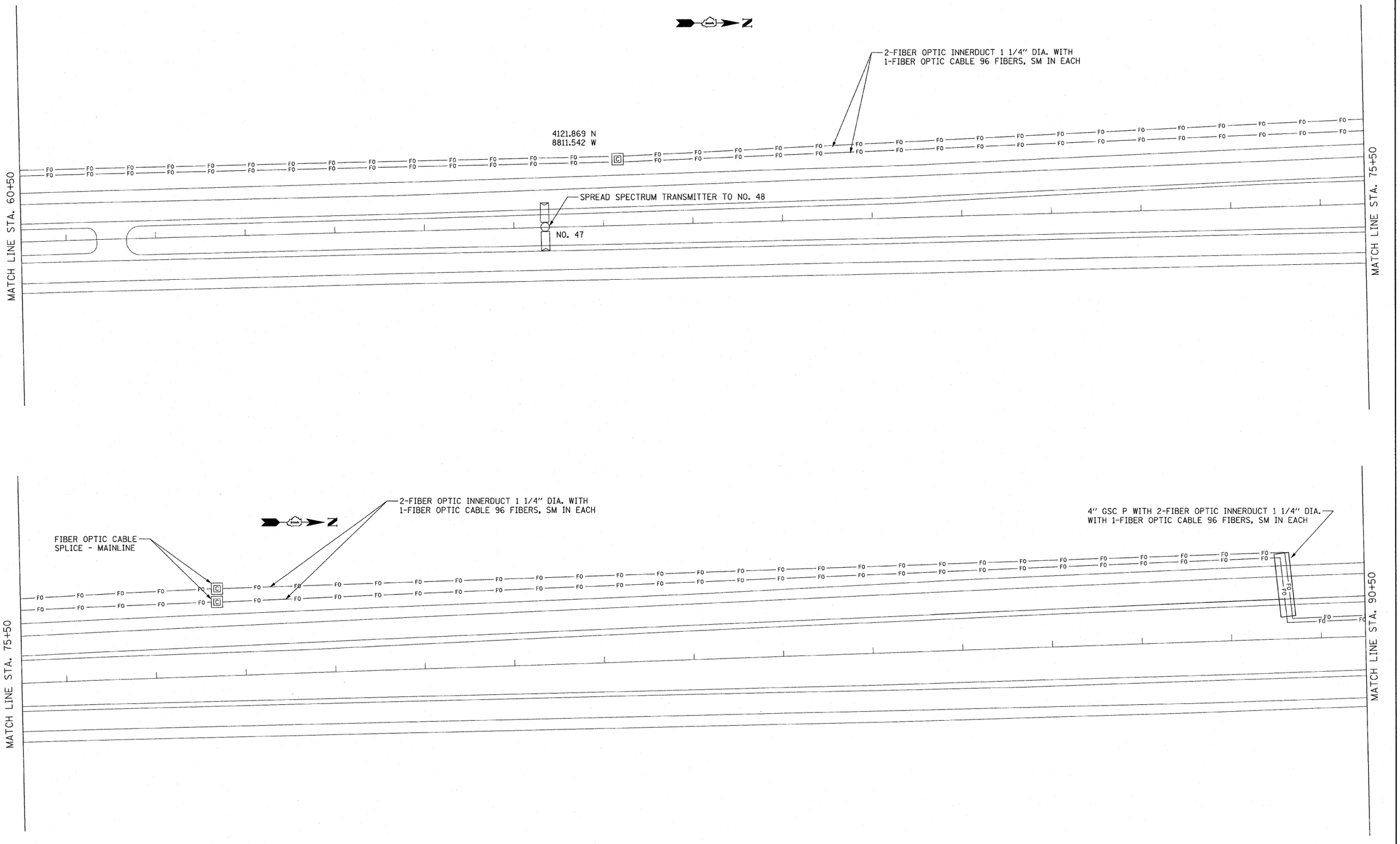
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 3/18/2010	DATE - 03/11/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
TRANSMITTERS NO. 47 1/2 MILE N. OF RIVER RD.

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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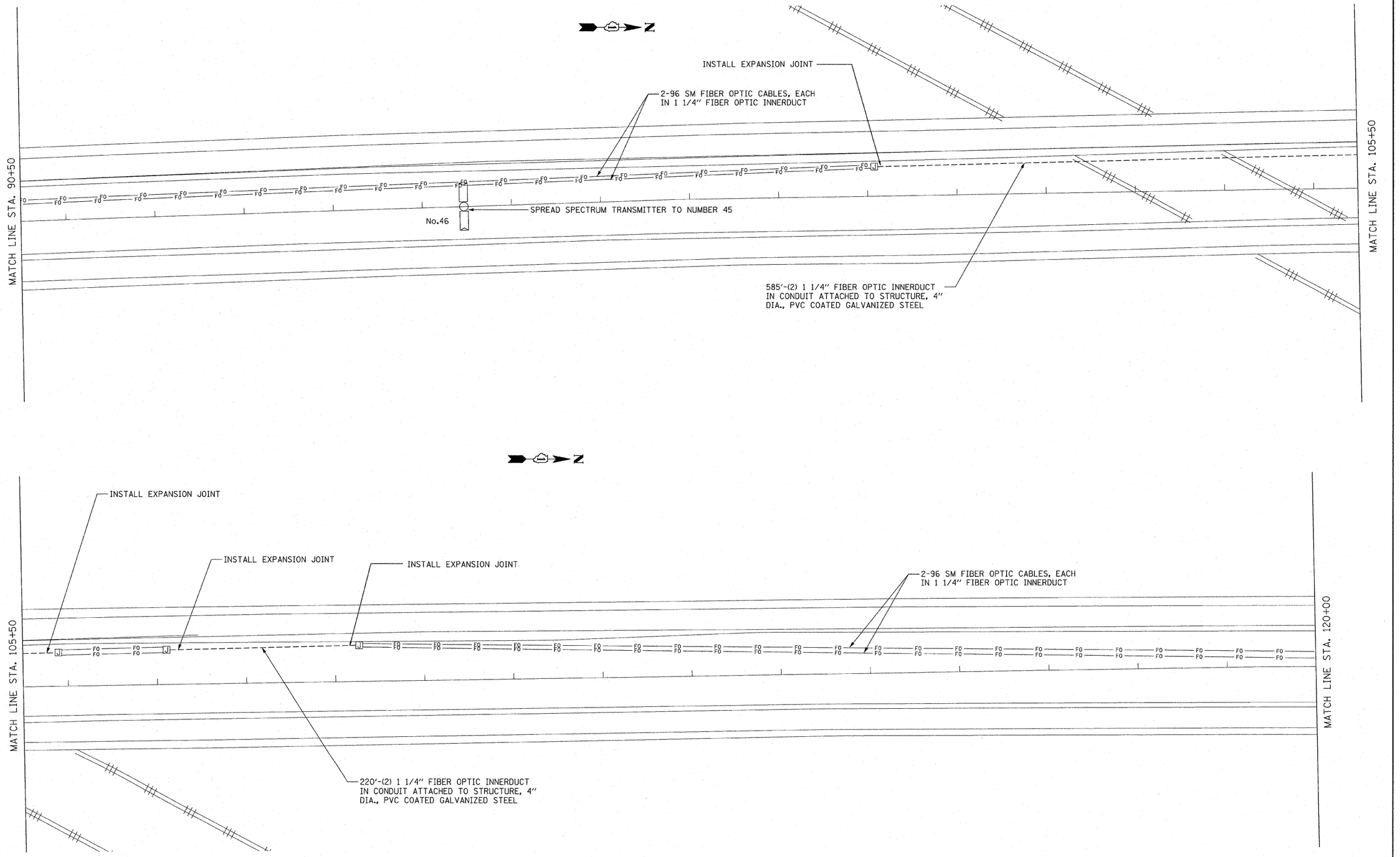
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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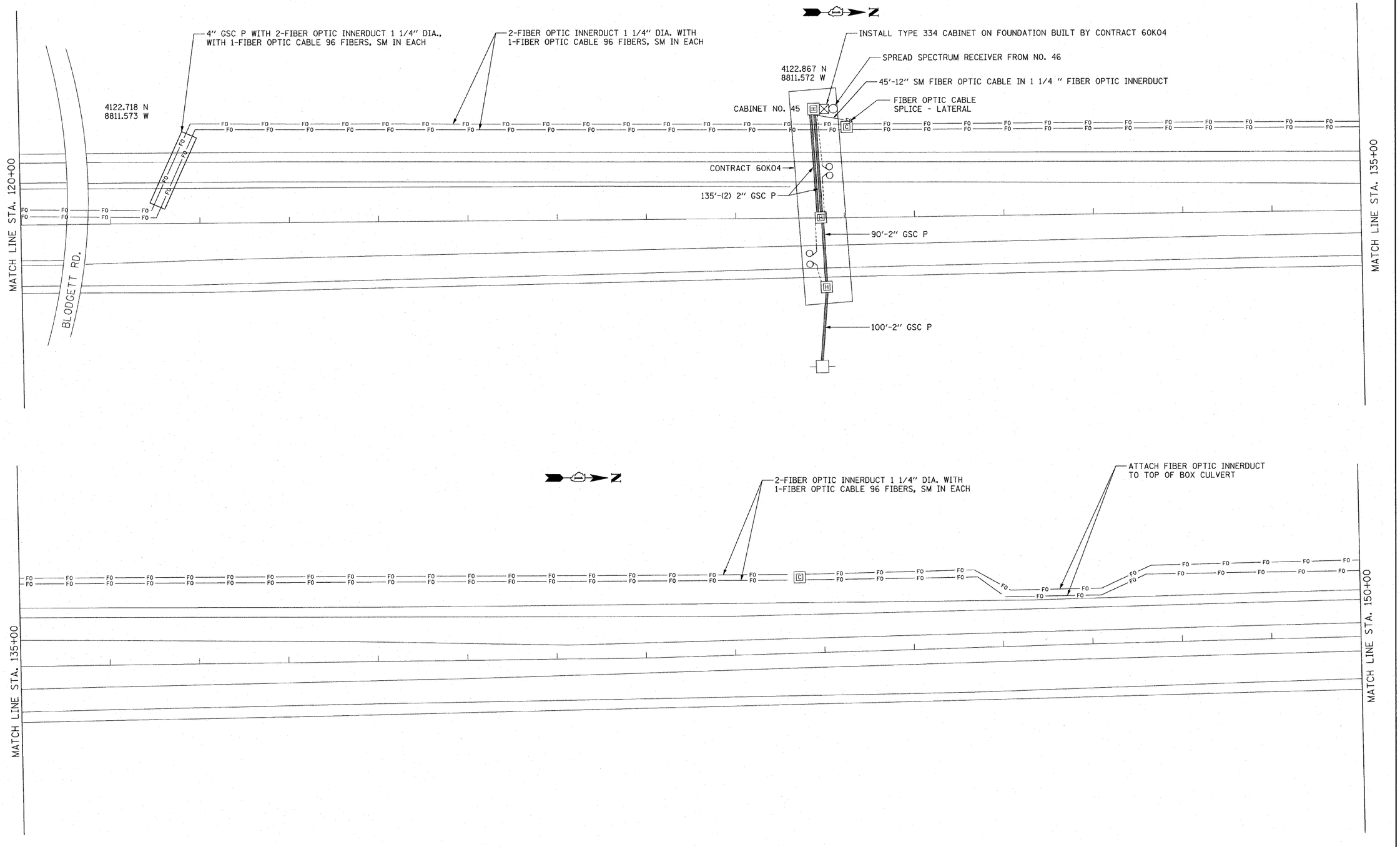
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I–55 (LORENZO ROAD TO I–80)
1 1⁄2 MILE SOUTH OF ARSENAL RD. INTERCHANGE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	8
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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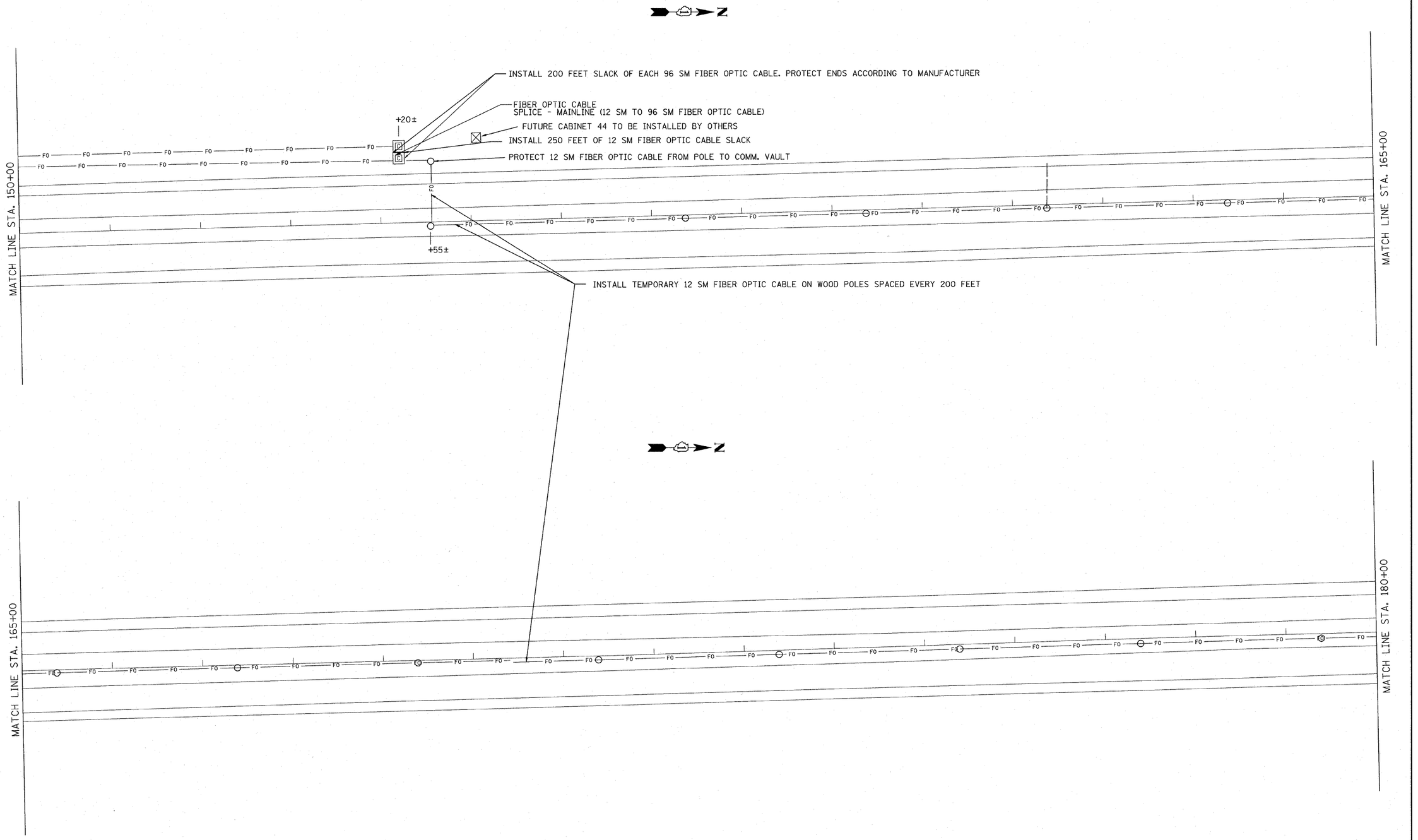
		DRAWN - G.M.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.C.	REVISED -
	PLOT DATE = 4/20/2010	DATE - 03/11/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CABINET NO. 45, 1 MILE SOUTH OF ARSENAL RD. INTERCHANGE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	9
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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		DRAWN - G.M.	REVISED -
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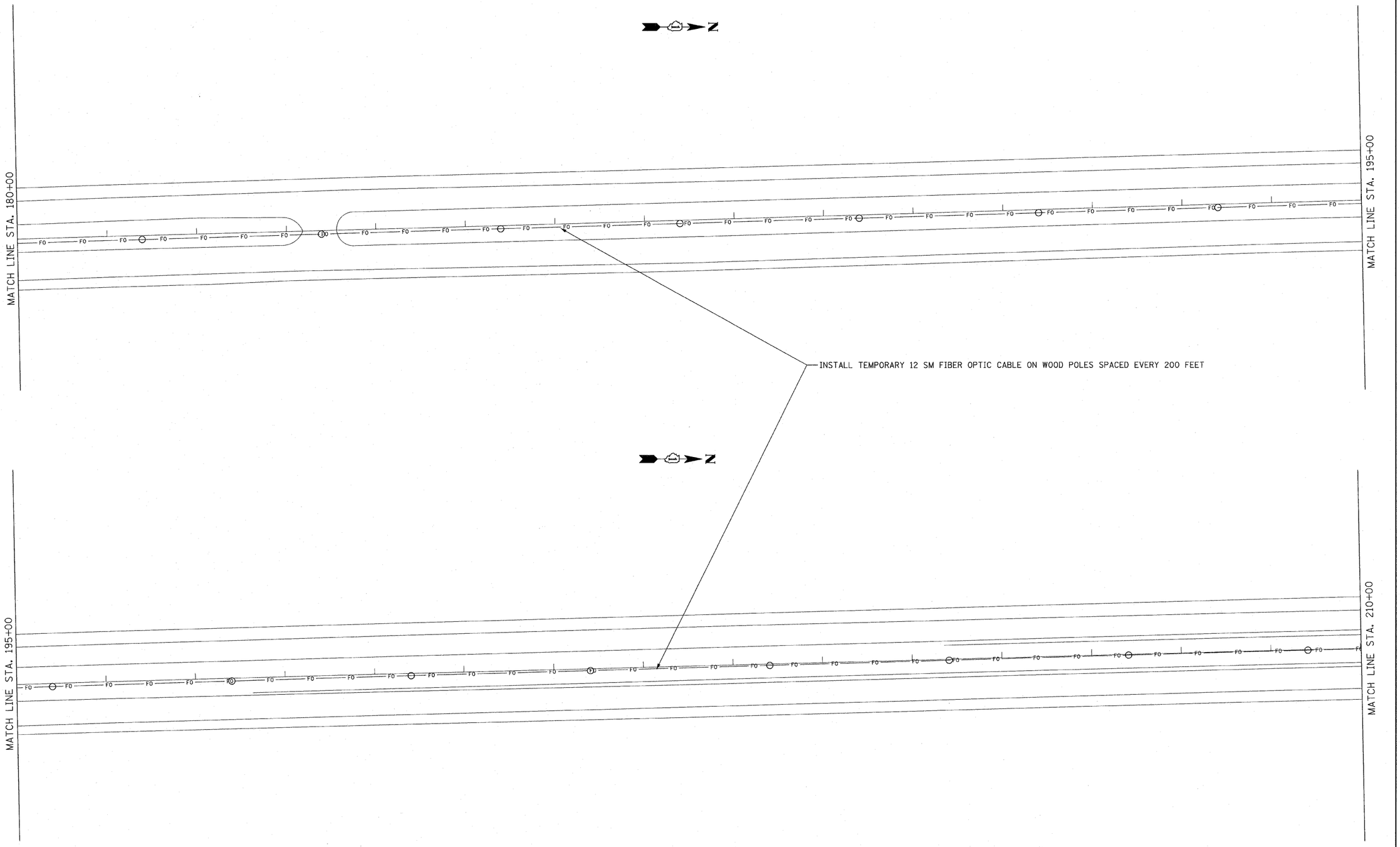
	PLOT DATE = 4/20/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CABINET NO. 44, 1 MILE SOUTH OF ARSENAL RD. INTERCHANGE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	10
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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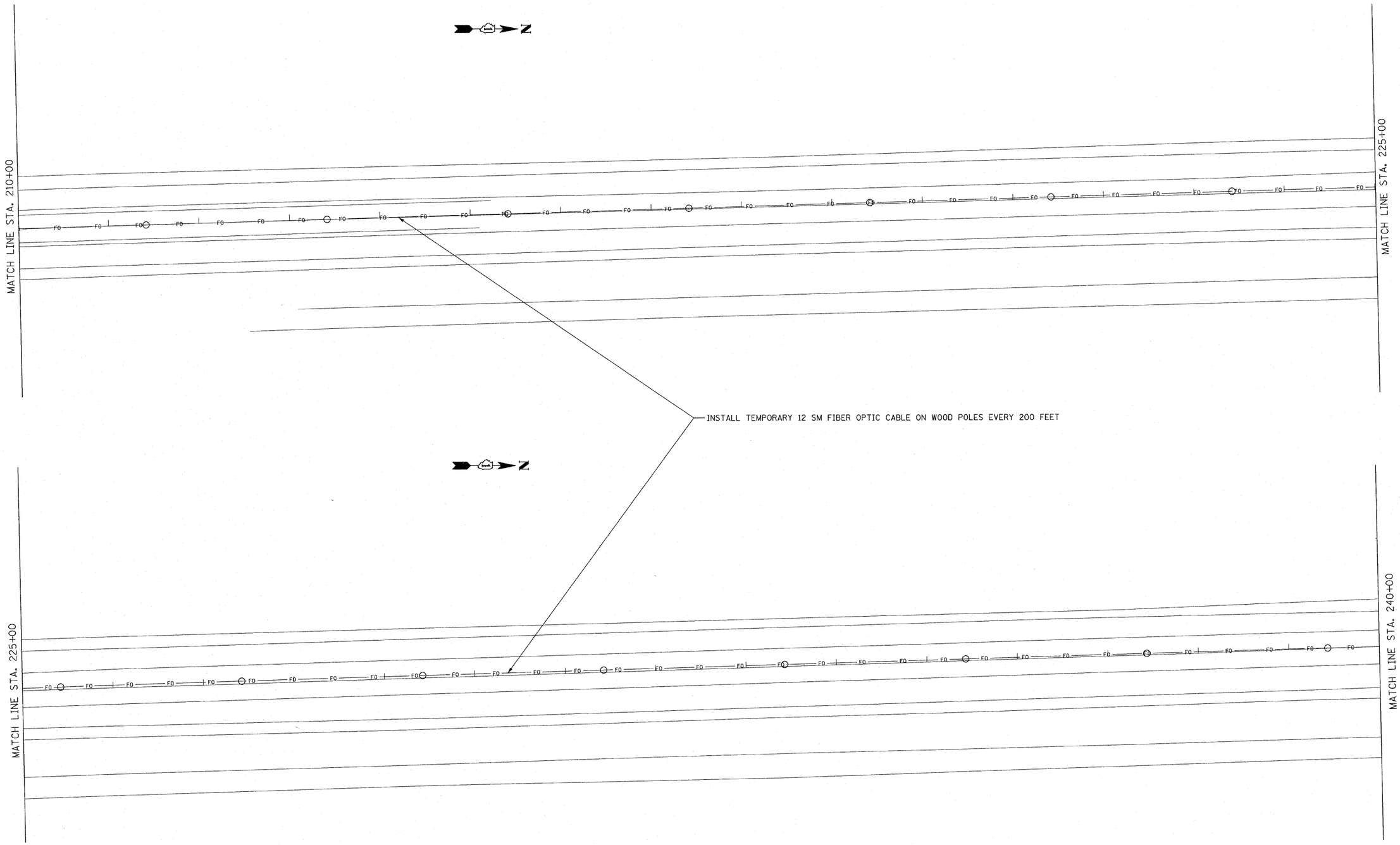
	PLOT SCALE = #SCALE#	DRAWN - C.M.	REVISED -		
	PLOT DATE = 3/18/2010	CHECKED - J.G.	REVISED -		
		DATE - 03/12/2010	REVISED -		

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	11
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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		DRAWN - G.M.	REVISED -
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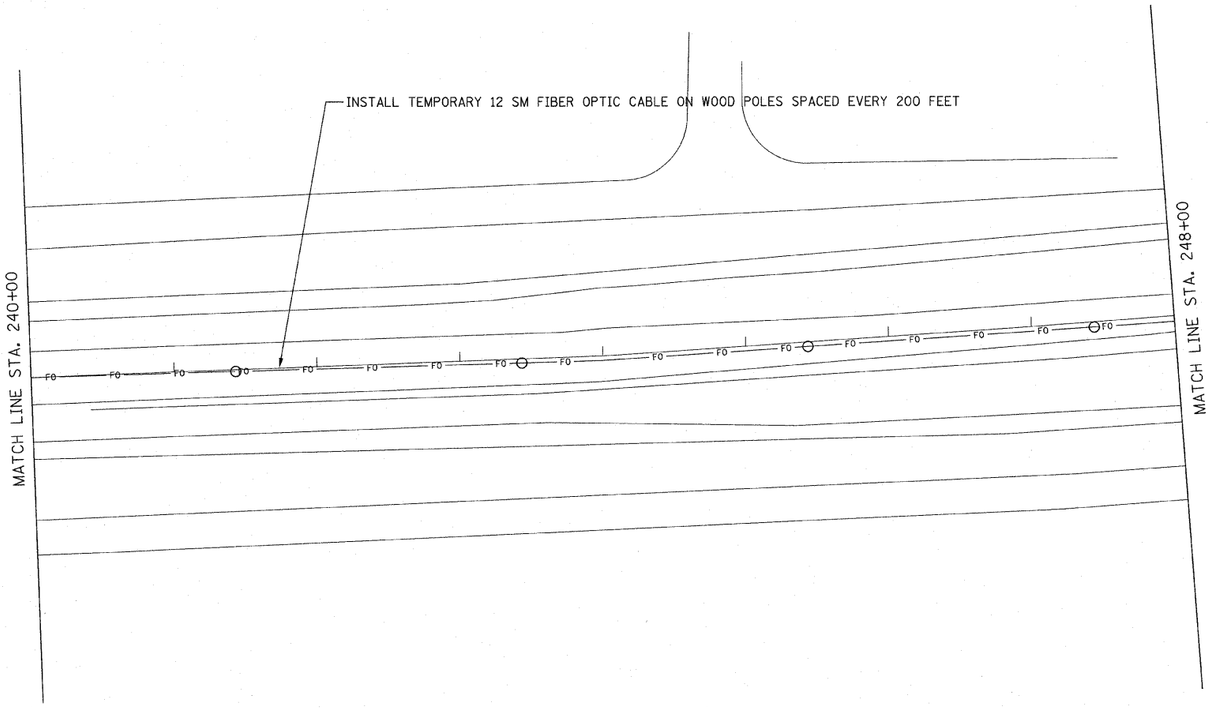
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CONTRACT 60C31

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	12
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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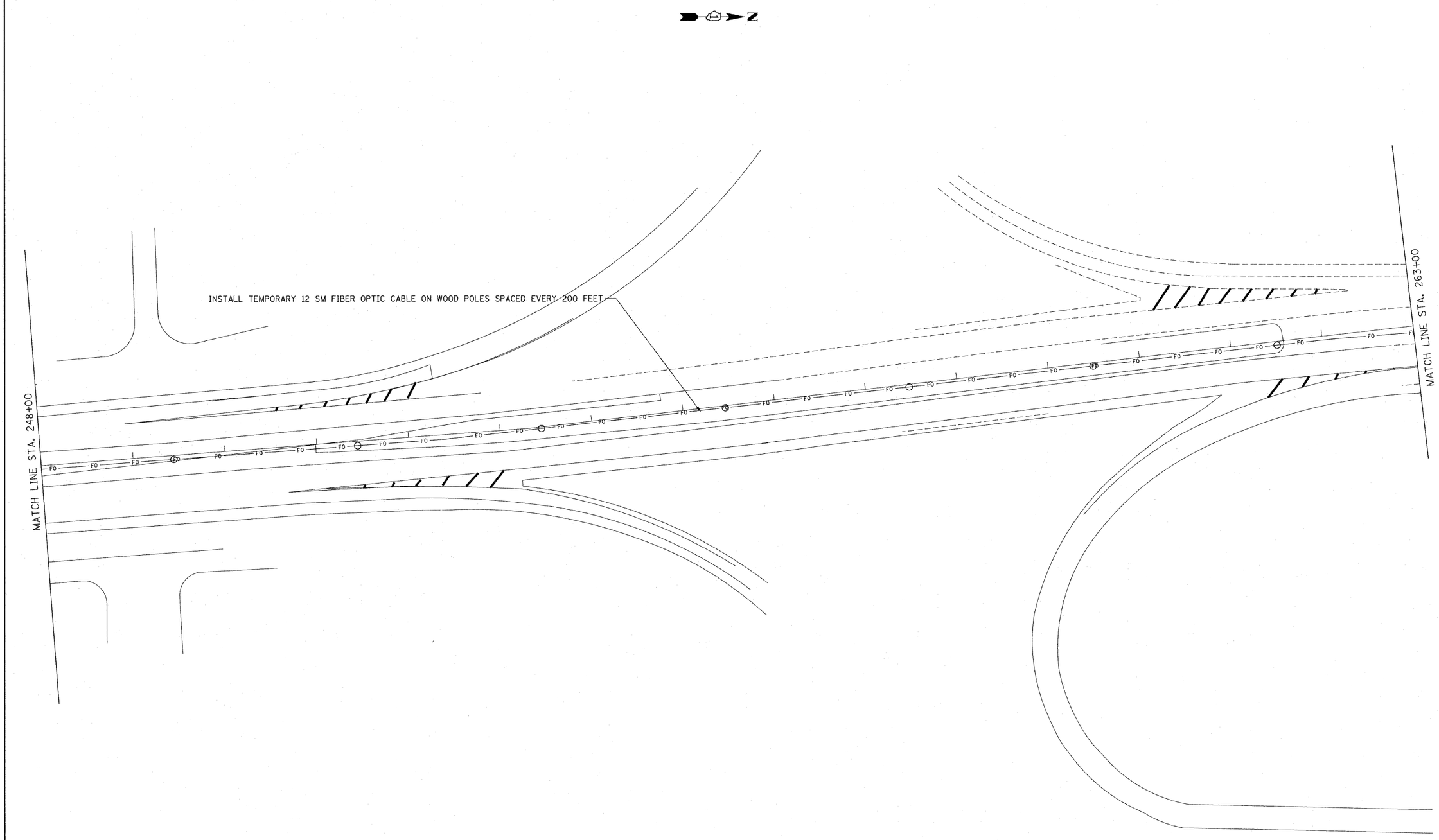
		DRAWN - G.M.	REVISED -			55	2009-112 I	WILL	56	13
	PLOT SCALE = @SCALE@	CHECKED - J.G.	REVISED -					CONTRACT NO. 60J24		
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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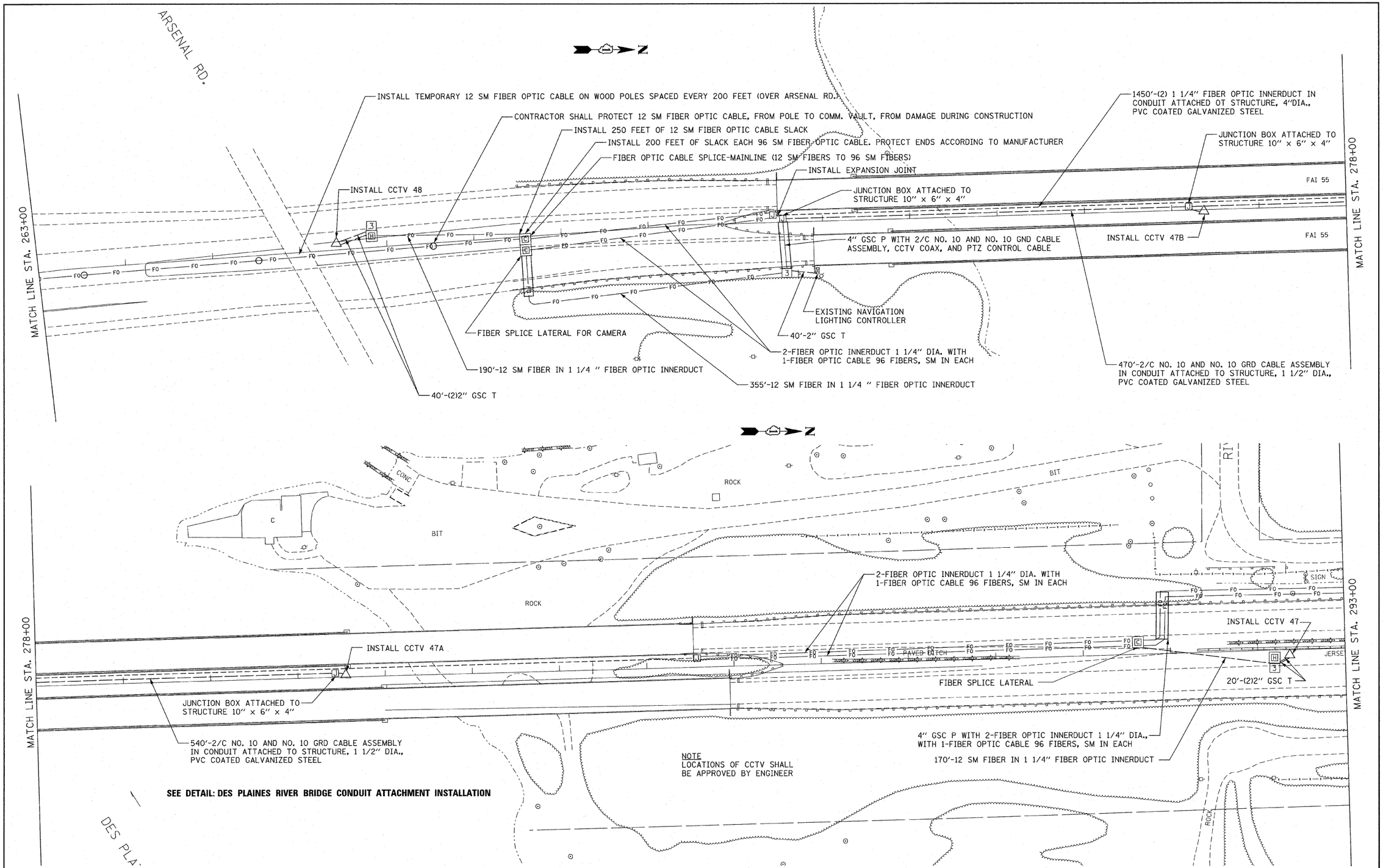
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I–55 (LORENZO ROAD TO I–80)
CONTRACT 60C31

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	14
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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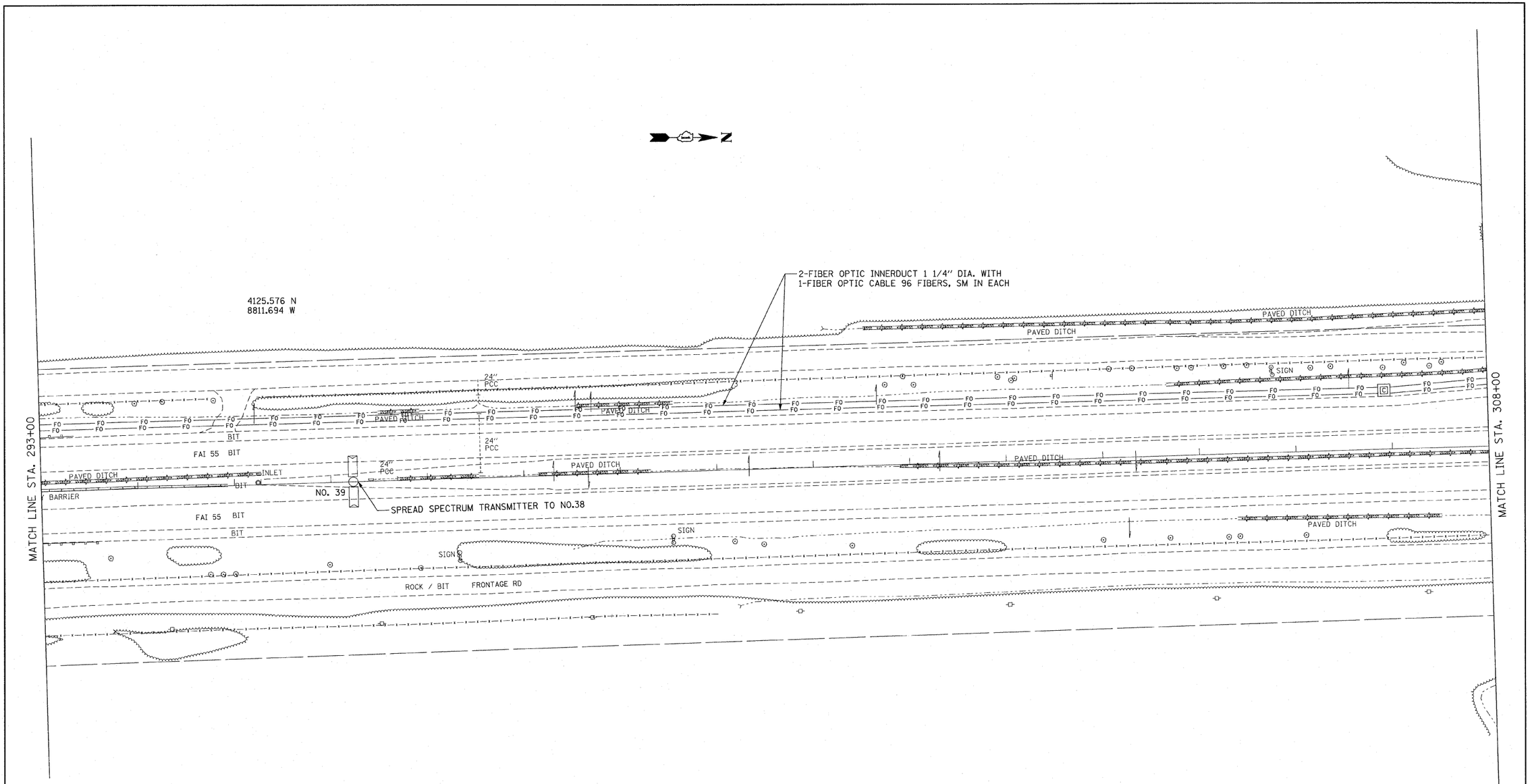
	PLOT DATE = 4/20/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
DESPLAINES RIVER BRIDGE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	15
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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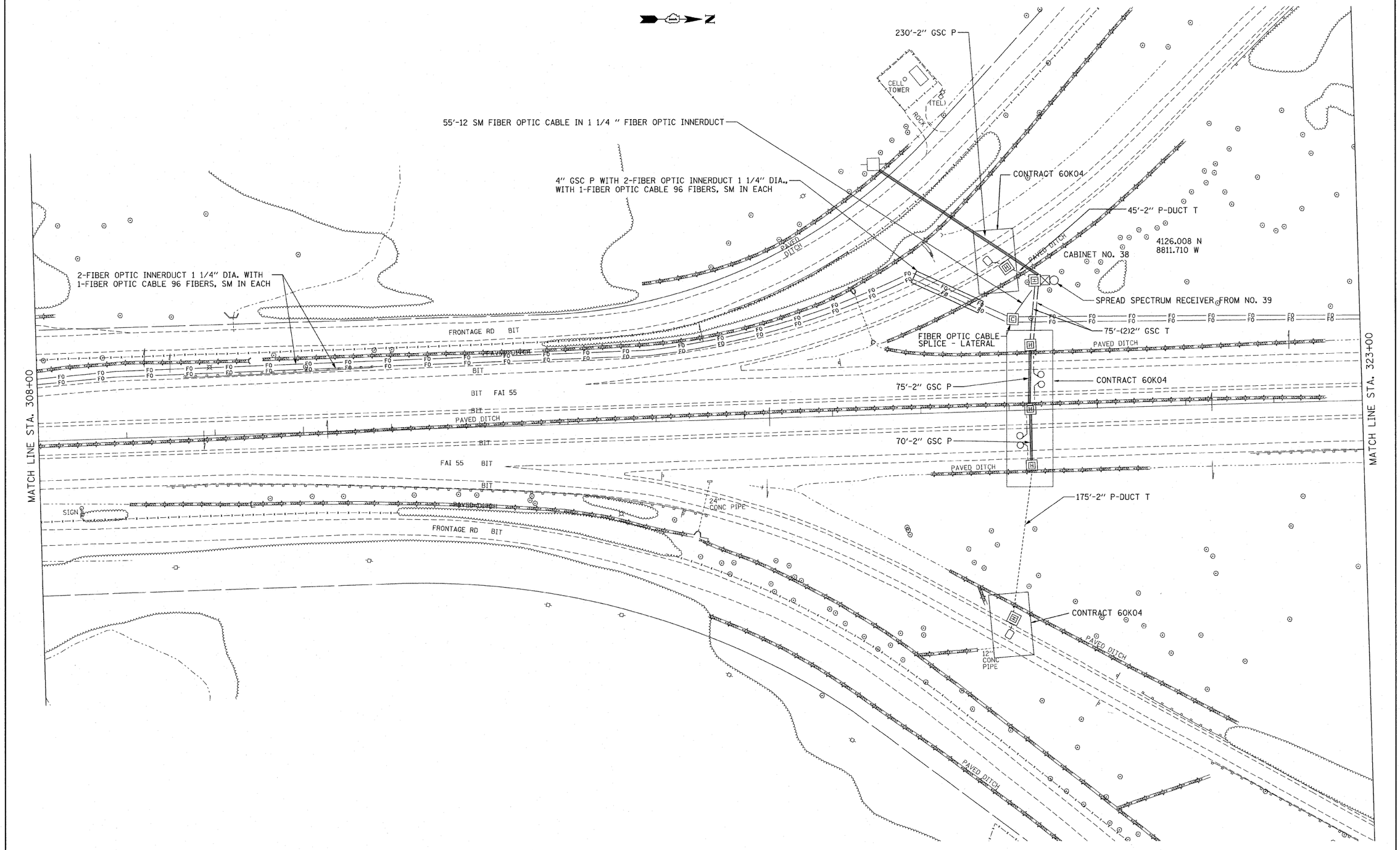
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
SPSSRVD No.38, 1/2 MILE NORTH OF ARSENAL ROAD

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	16
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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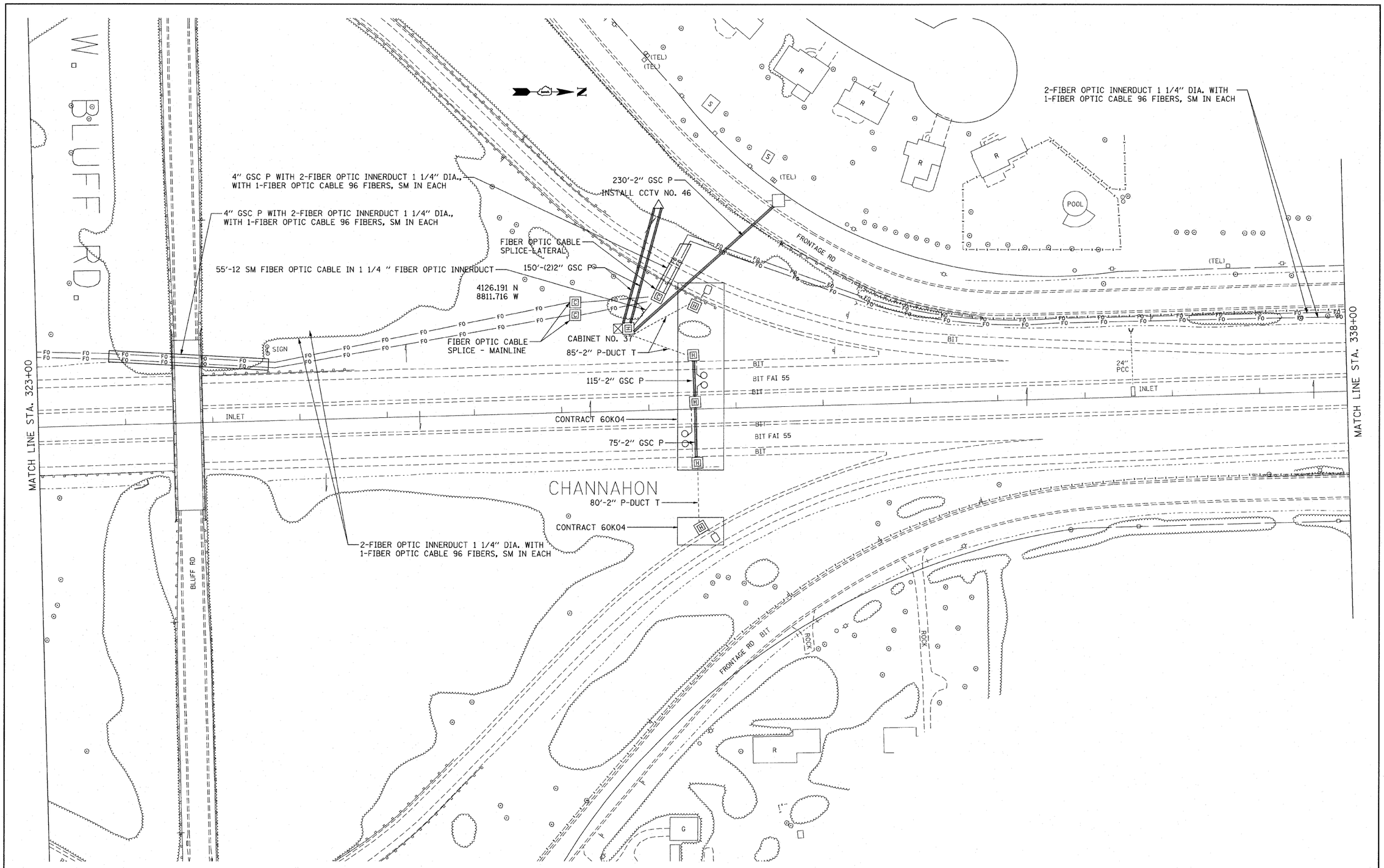
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
SOUTH BLUFF ROAD

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	17
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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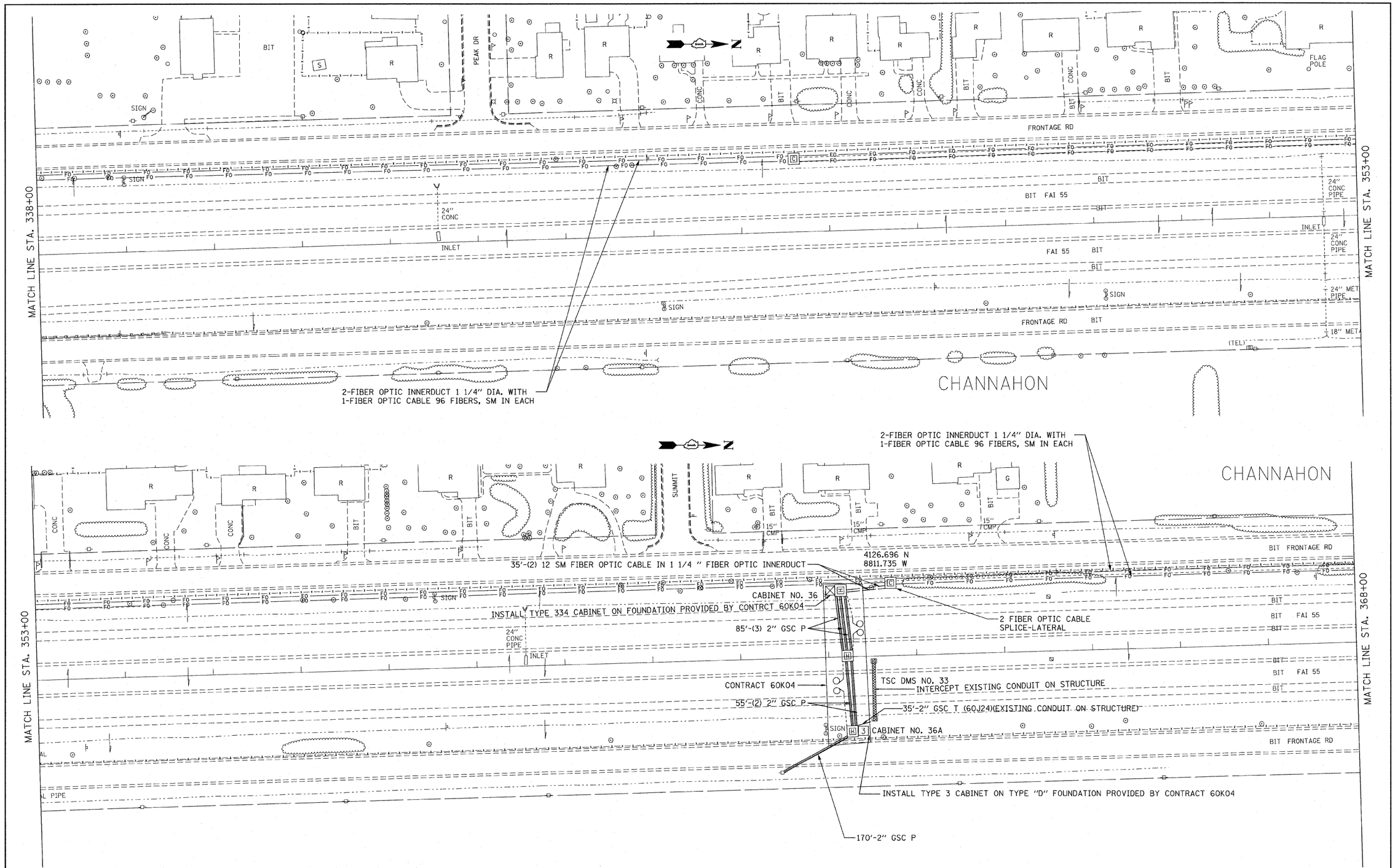
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 4/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
NORTH BLUFF ROAD

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	18
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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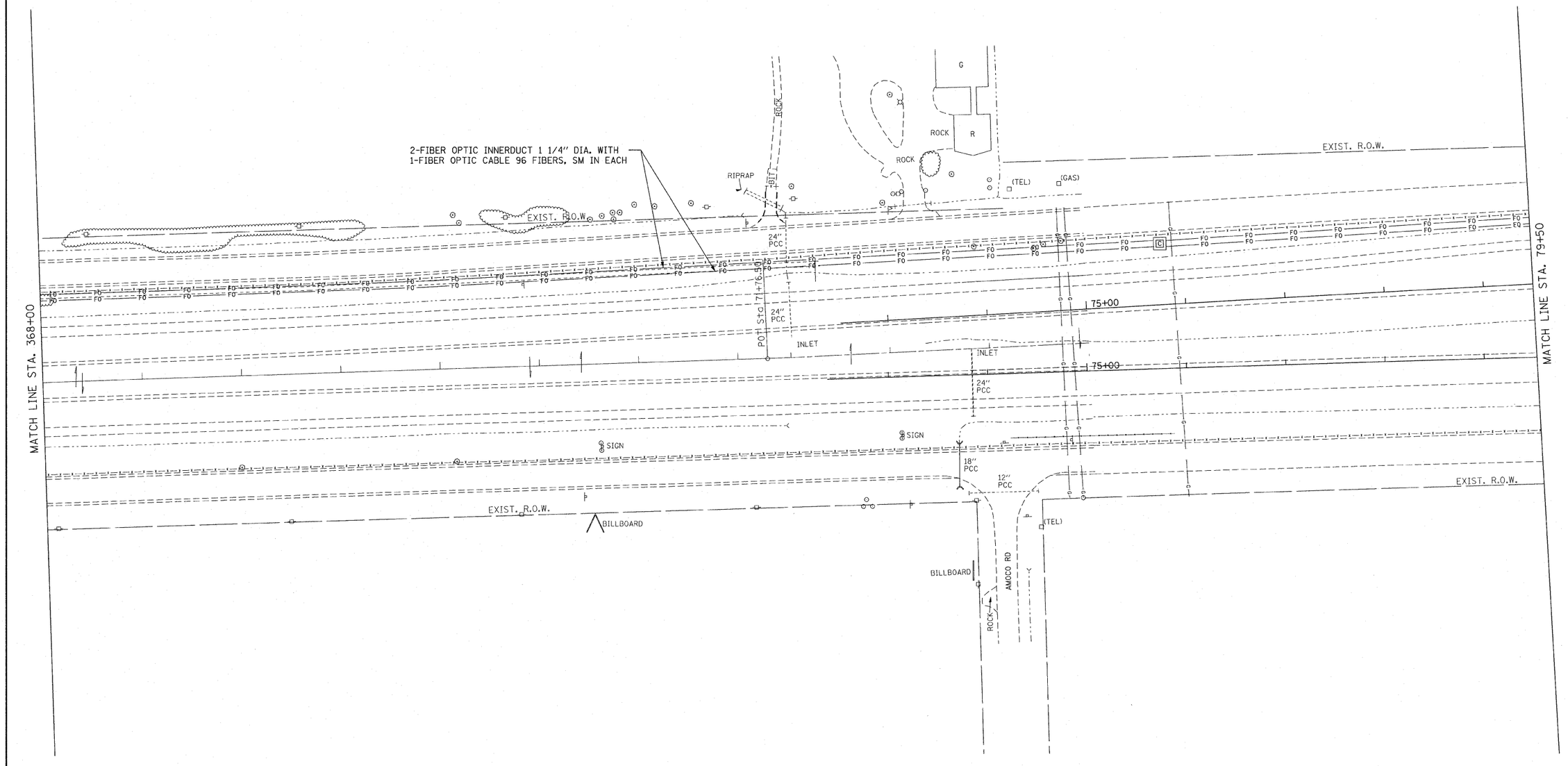
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
1/2 MILE NORTH OF BLUFF ROAD

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	19
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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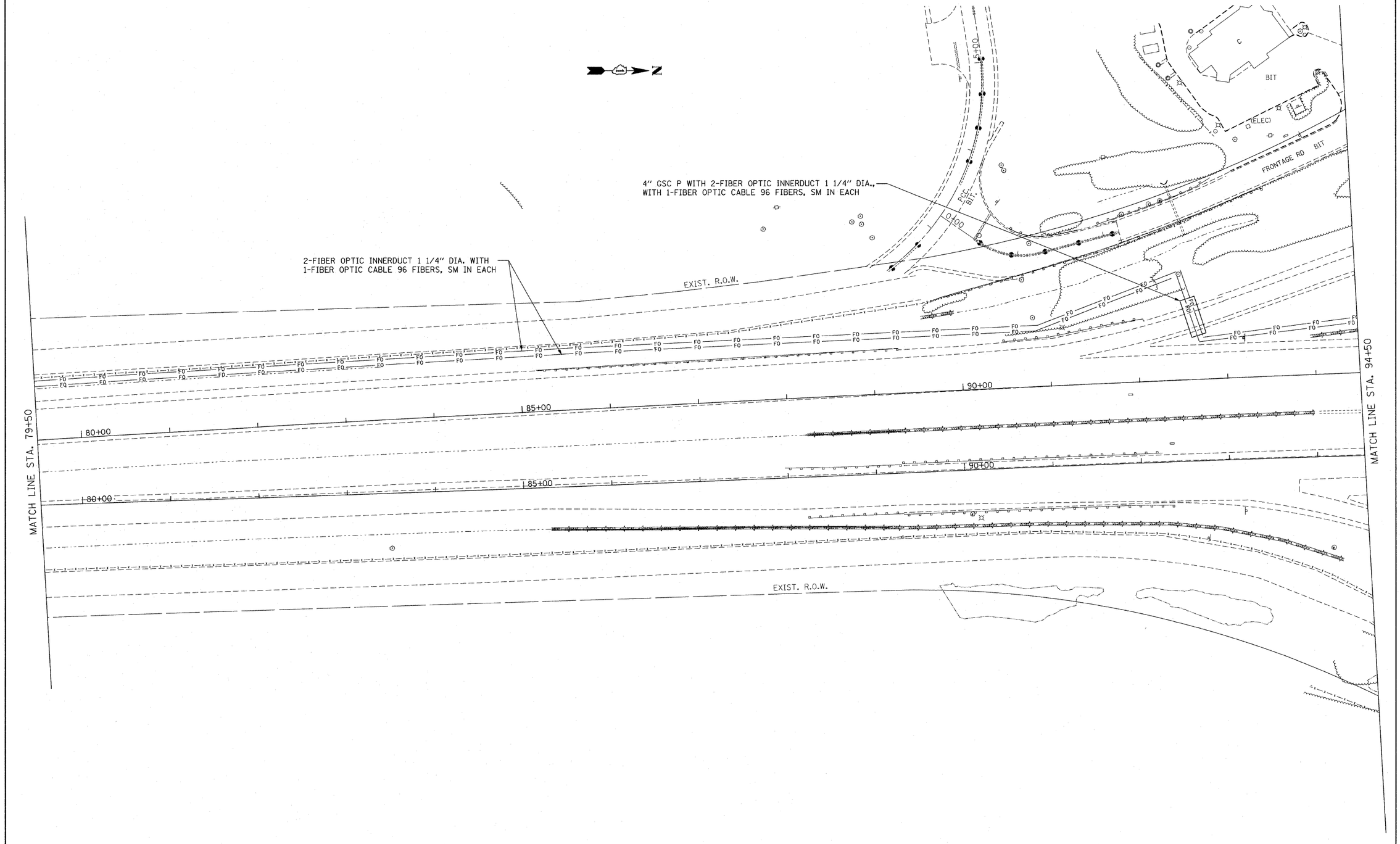
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEM CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	20
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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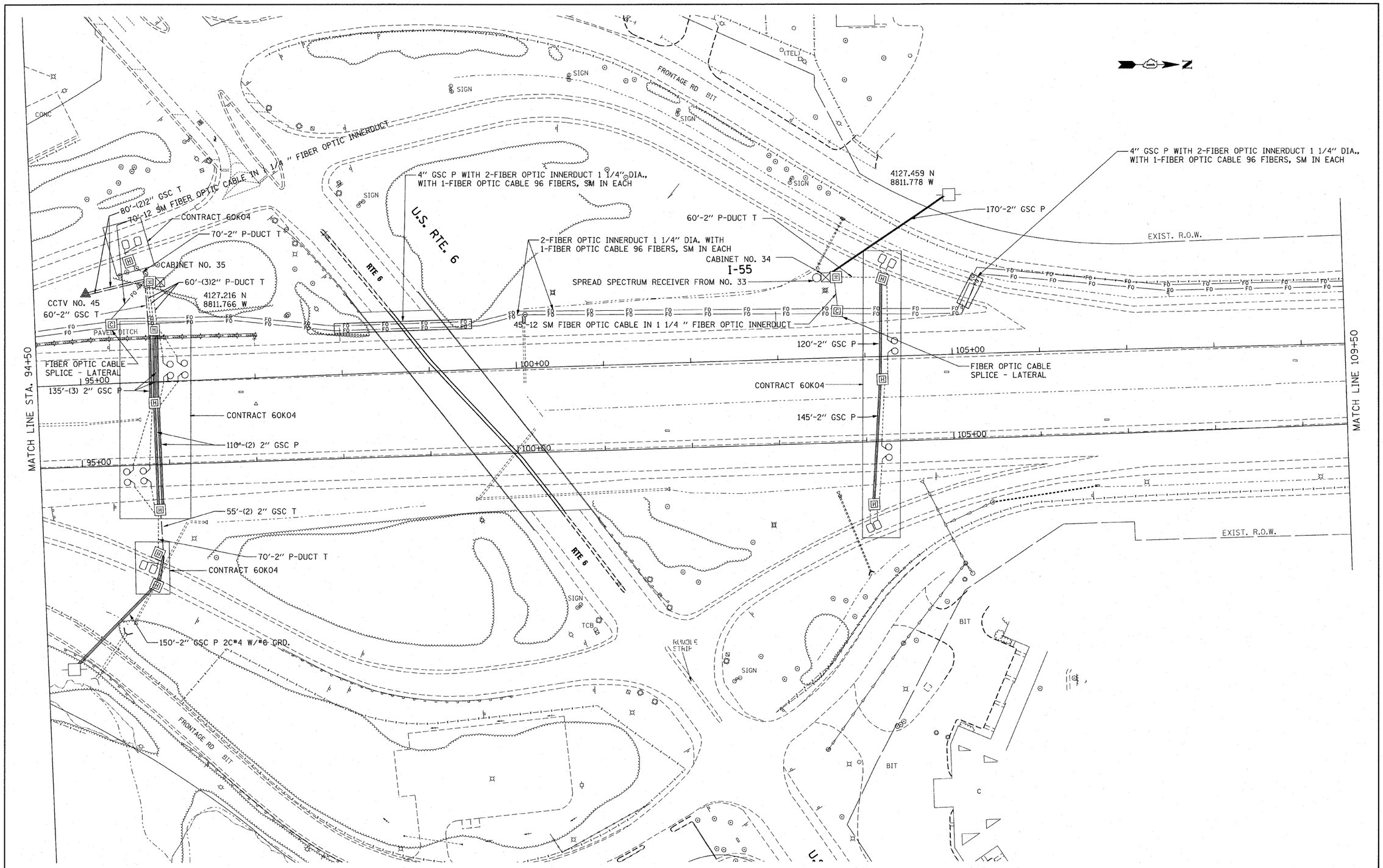
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I–55 (LORENZO ROAD TO I–80)

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	21
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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		DRAWN -	REVISED -
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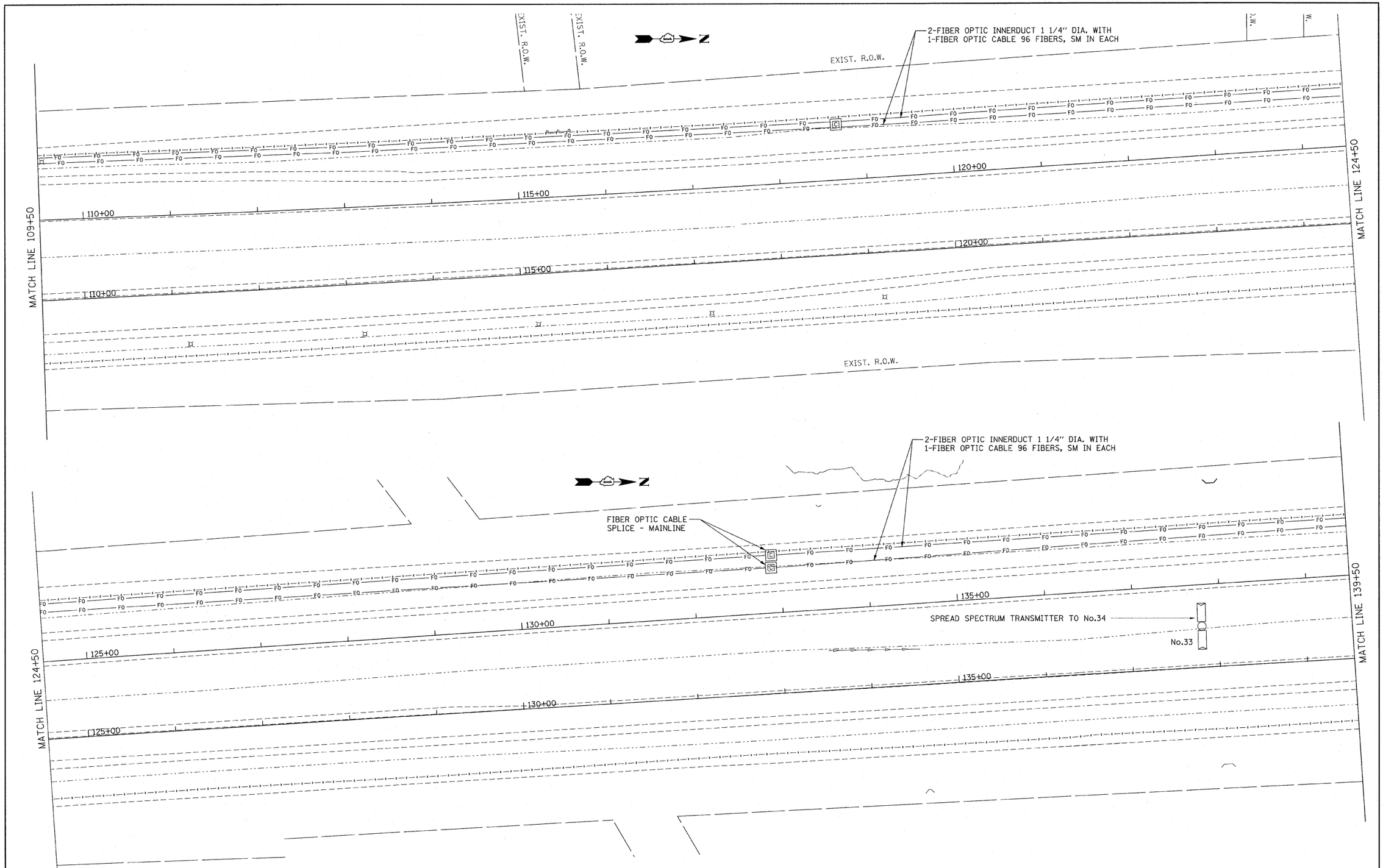
	PLOT DATE = 4/20/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I–55 (LORENZO ROAD TO I–80)
CAB. 34, 35 US RTE. 6

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	22
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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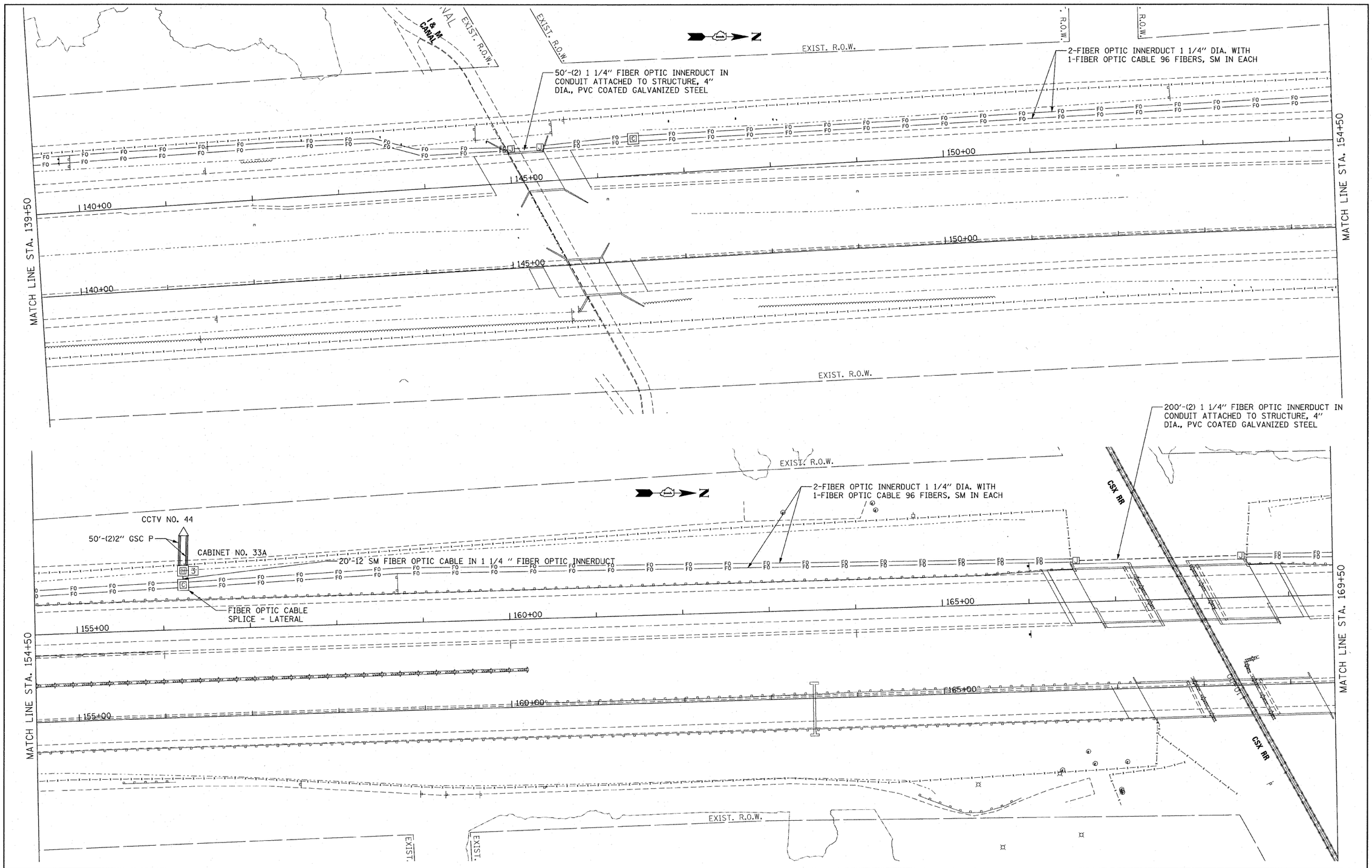
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
SPSSRVD33 NORTH OF RTE. 6

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	23
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 4/20/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
1/2 MILE NORTH OF RTE. 6

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	24
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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		DRAWN - G.M.	REVISED -
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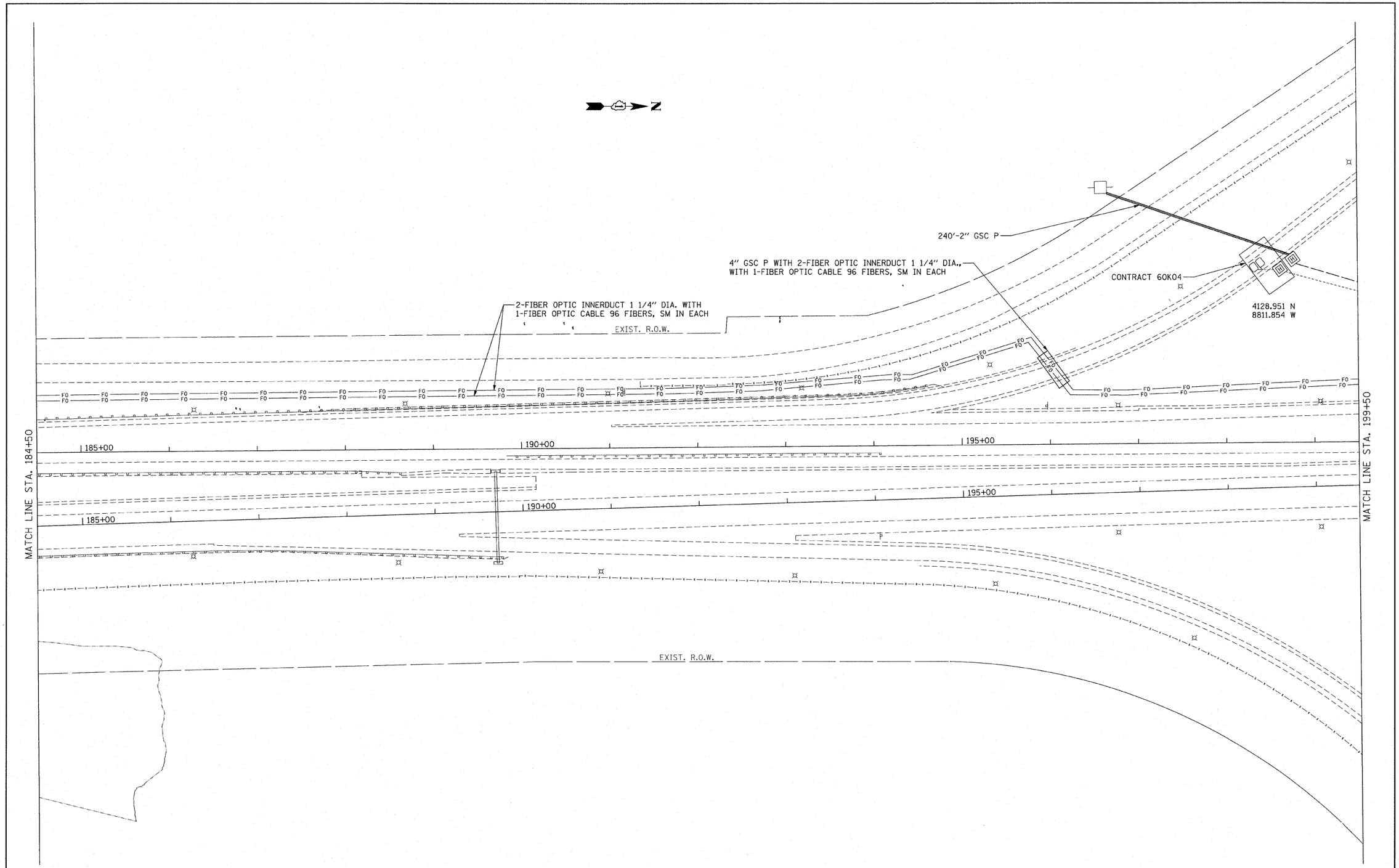
	PLOT DATE = 3/18/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I–55 (LORENZO ROAD TO I–80)
1/2 MILE SOUTH OF I–80 TRANSMITTER 32

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	25
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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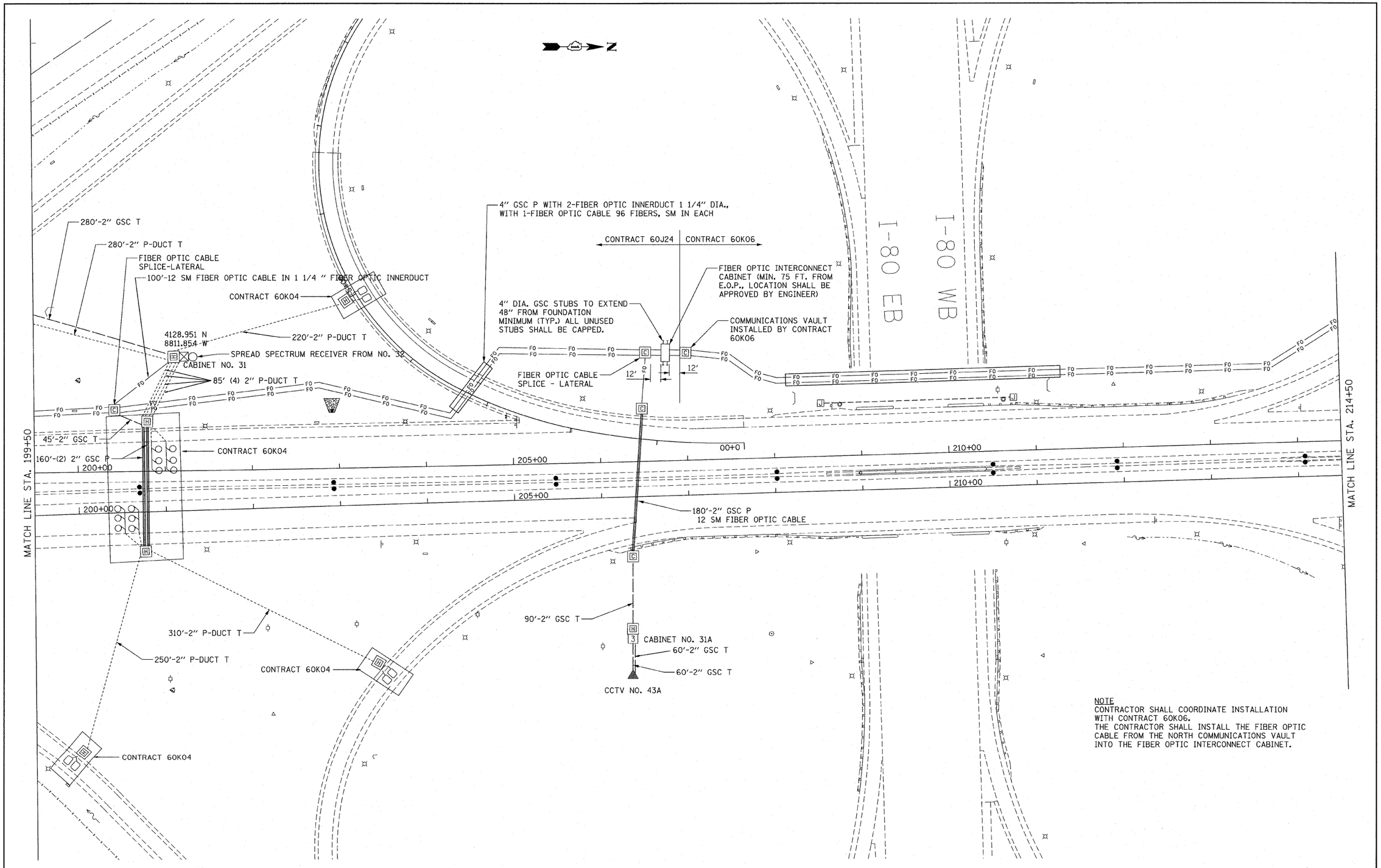
	PLOT DATE = 4/20/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
SOUTH OF I-80

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	26
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE
CONTRACTOR SHALL COORDINATE INSTALLATION WITH CONTRACT 60K06.
THE CONTRACTOR SHALL INSTALL THE FIBER OPTIC CABLE FROM THE NORTH COMMUNICATIONS VAULT INTO THE FIBER OPTIC INTERCONNECT CABINET.

FILE NAME = P:\P-07-1600-12\Client\TSC Plans\SHT027.dgn	USER NAME = rdanhan	DESIGNED - J.G.	REVISED -
		DRAWN - G.M.	REVISED -
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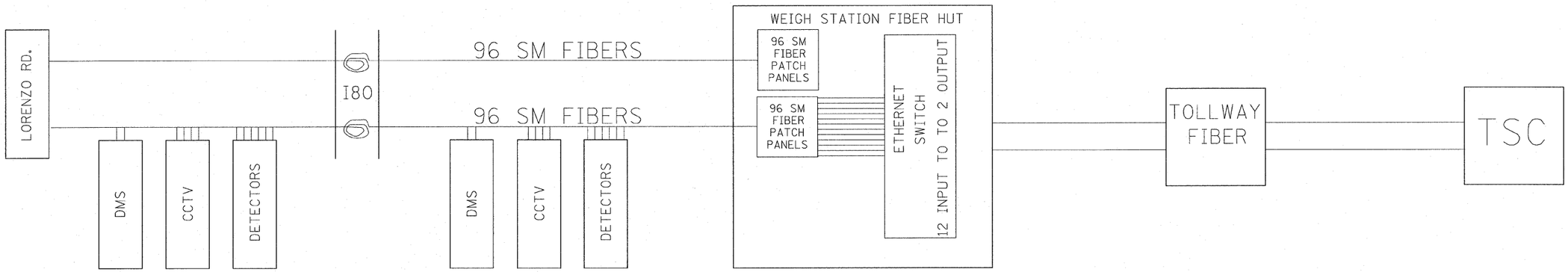
	PLOT DATE = 4/20/2010	DATE - 03/12/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80) SOUTH I-80

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

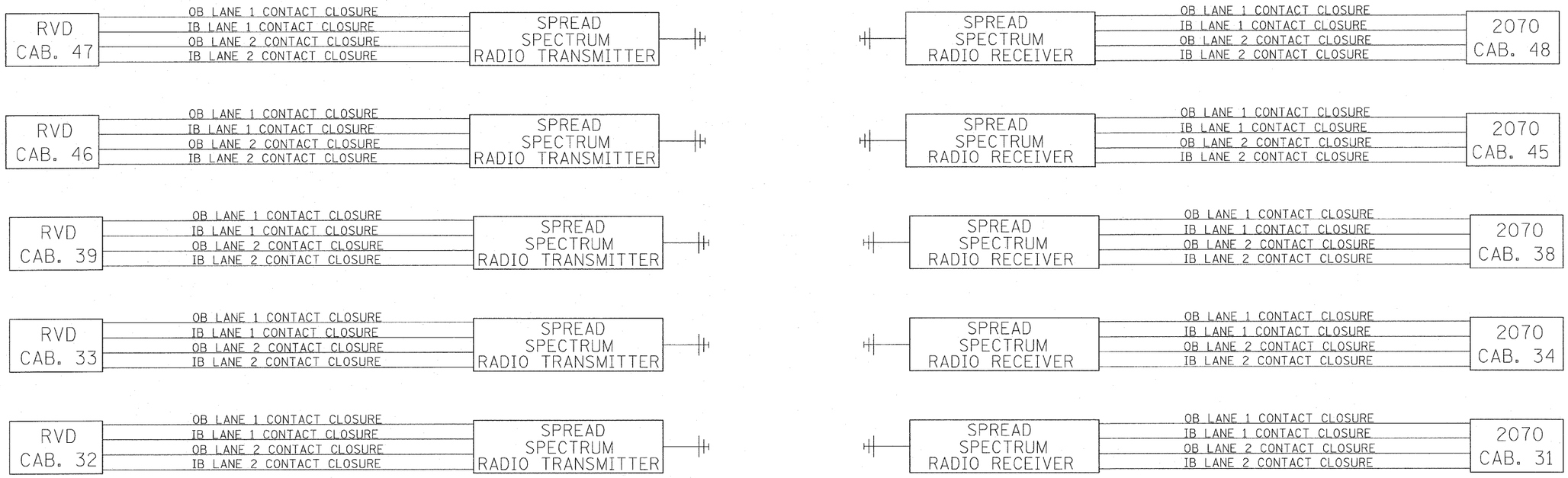
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	27
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NORTH OF NAPERVILLE RD.

FILE NAME = C:\d1060210\155TSCTYP.DGN P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn	USER NAME = rdahhan	DESIGNED - J.G.	REVISED - 01/27/2010	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** TRAFFIC SYSTEMS CENTER	FIBER ROUTE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - G.M.	REVISED - 03/25/2010								56 / 28
	PLOT SCALE = $SCALE$	CHECKED - J.G.	REVISED -							CONTRACT NO.	
	PLOT DATE = 3/18/2010	DATE - 01/19/2010	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#45)



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	PLOT SCALE = $SCALE$	CHECKED - J.G.	REVISED -
	PLOT DATE = 3/18/2010	DATE - 01/19/2010	REVISED -

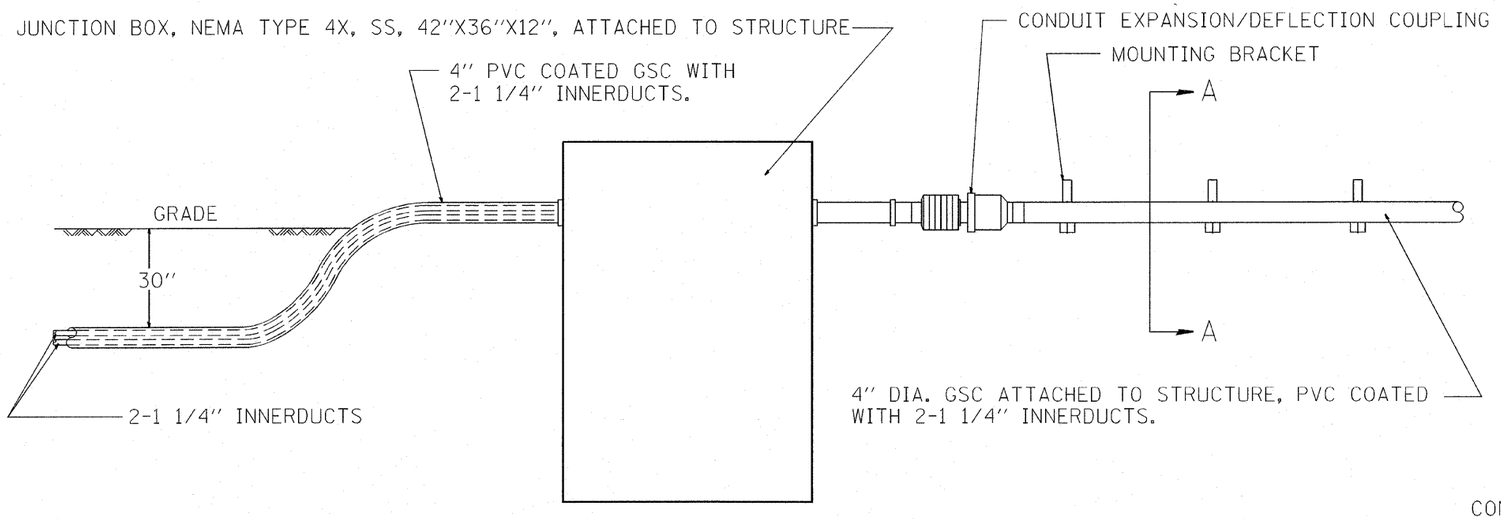
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

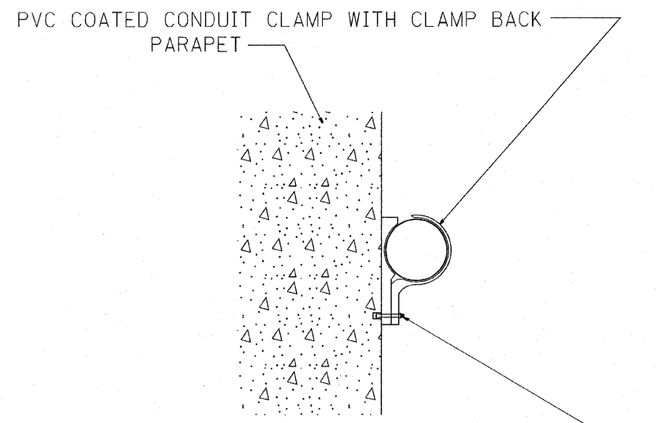
LORENZO TO I-80
SPSSRVDS LAYOUT (MEDIAN)

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

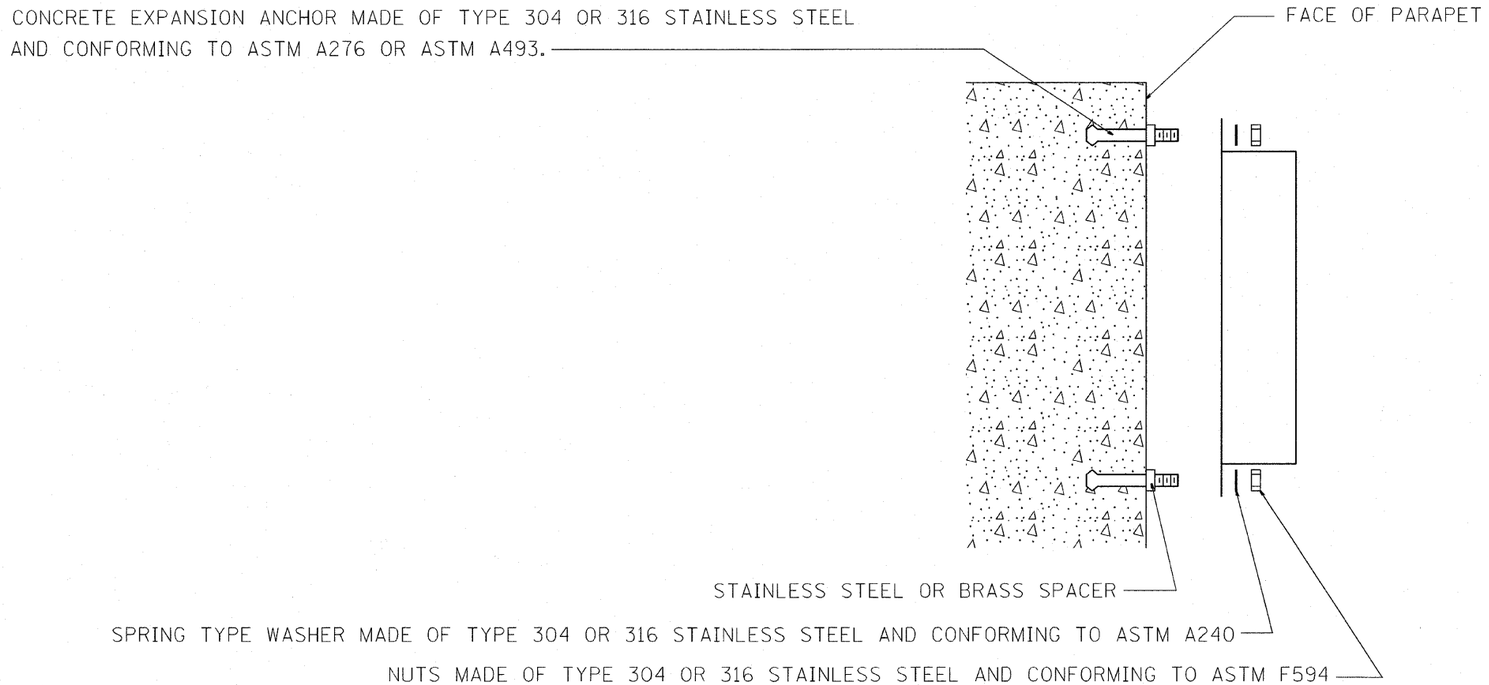
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	29
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#46)





SECTION A-A



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	PLOT SCALE = 95.4545 ' / IN.	CHECKED - J.G.	REVISED -
	PLOT DATE = 4/20/2010	DATE - 04/19/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC CABLE INSTALLATION - I-55 (LORENZO RD. TO I-80)
CONDUIT CROSSING DETAIL

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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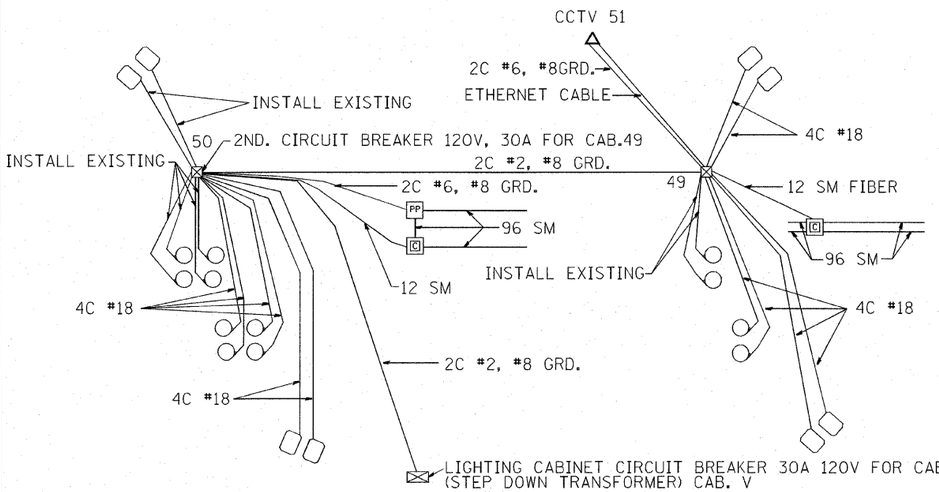
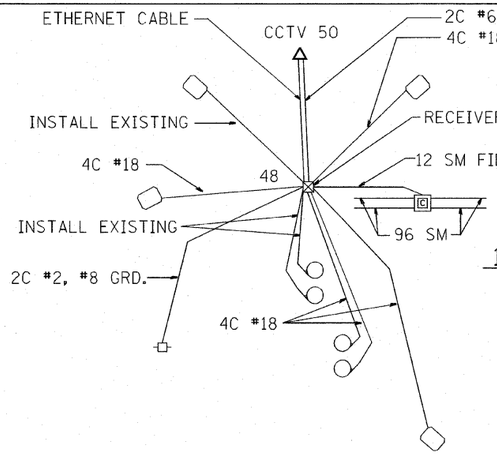
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



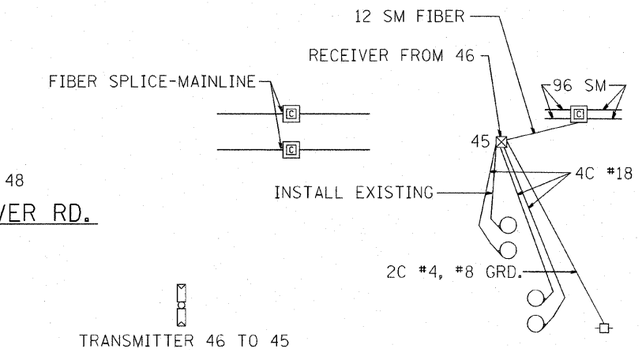
LORENZO RD. SOUTH



LORENZO RD. NORTH

TRANSMITTER 47 TO 48

1/2 MILE N. OF RIVER RD.



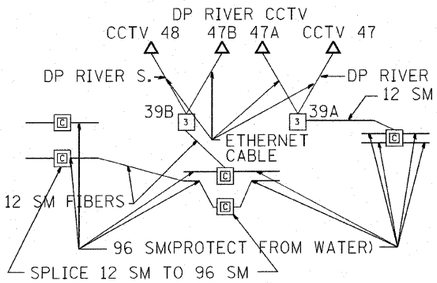
TRANSMITTER 46 TO 45

1 MILE N. OF RIVER RD.

RIVER RD

1 MILE S. OF ARSENAL RD.
INTERCHANGE

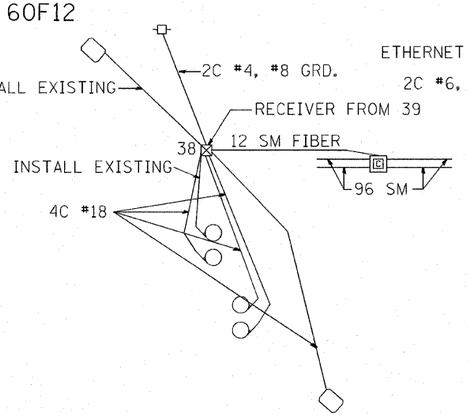
CABINETS 44-40 IN CONTRACT 60F12



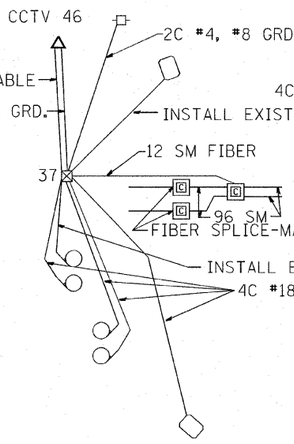
DESPLAINES RIVER

TRANSMITTER 39 TO 38

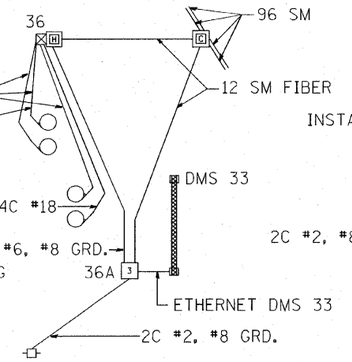
1/2 MILE SOUTH
OF BLUFF RD.



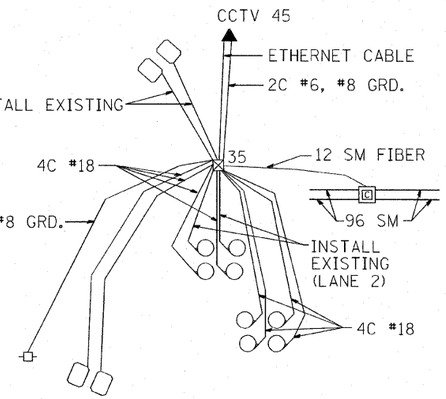
S. BLUFF RD.



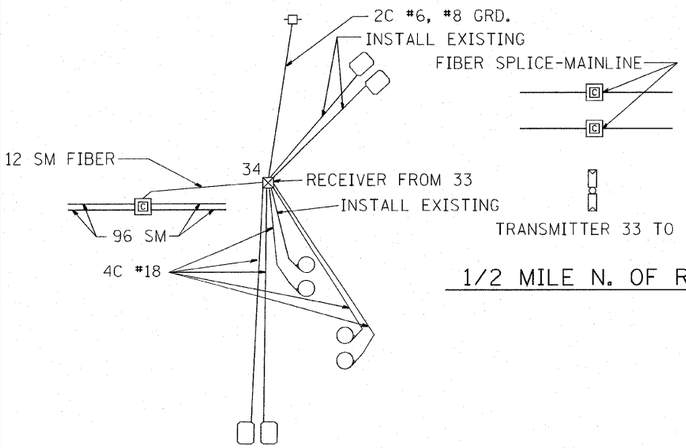
N. BLUFF RD.



1/2 MI. NORTH OF BLUFF RD.
DMS 33



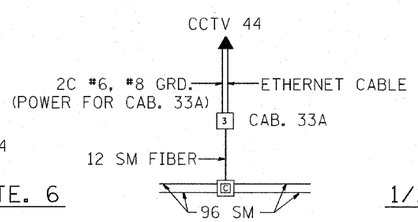
SOUTH RTE. 6



NORTH RTE. 6

TRANSMITTER 33 TO 34

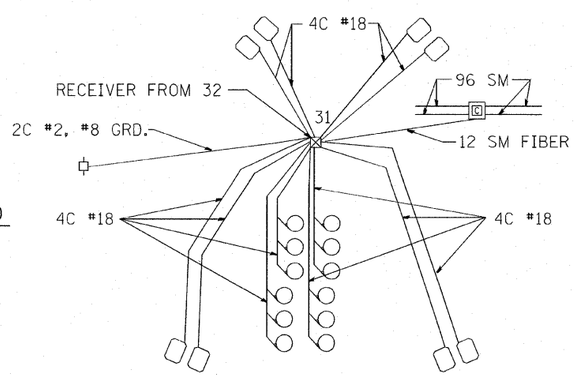
1/2 MILE N. OF RTE. 6



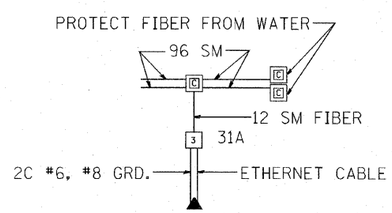
CCTV 44

TRANSMITTER 32 TO 31

1/2 MILE S. OF I-80



I-80



CCTV 43A

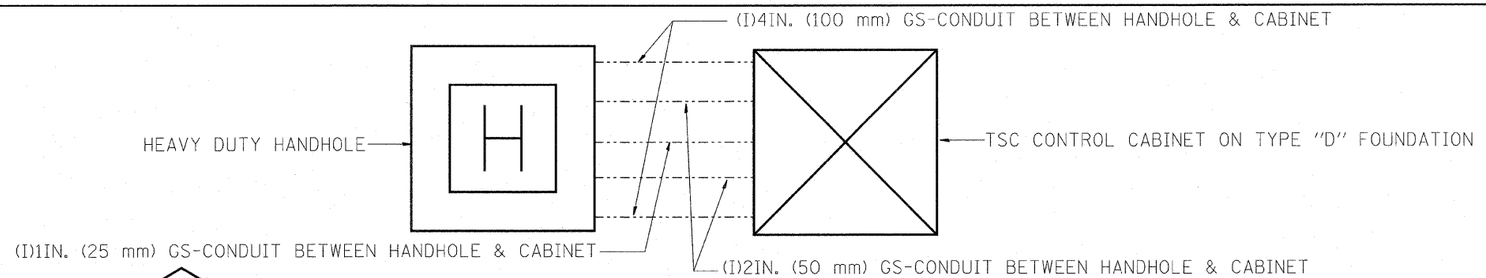
FILE NAME =C: LORENZO180-3-17-2010	USER NAME = mazag	DESIGNED - JG	REVISED -04/06/2010
C:\LORENZO180-3-17-2010\LORENZO180WIREDIAGRAMS.dgn		DRAWN - GM	REVISED -04/07/2010
	PLOT SCALE = 4772.7273 ' / IN.	CHECKED - JG	REVISED -04/08/2010
	PLOT DATE = 4/8/2010	DATE - 03/11/2010	REVISED -

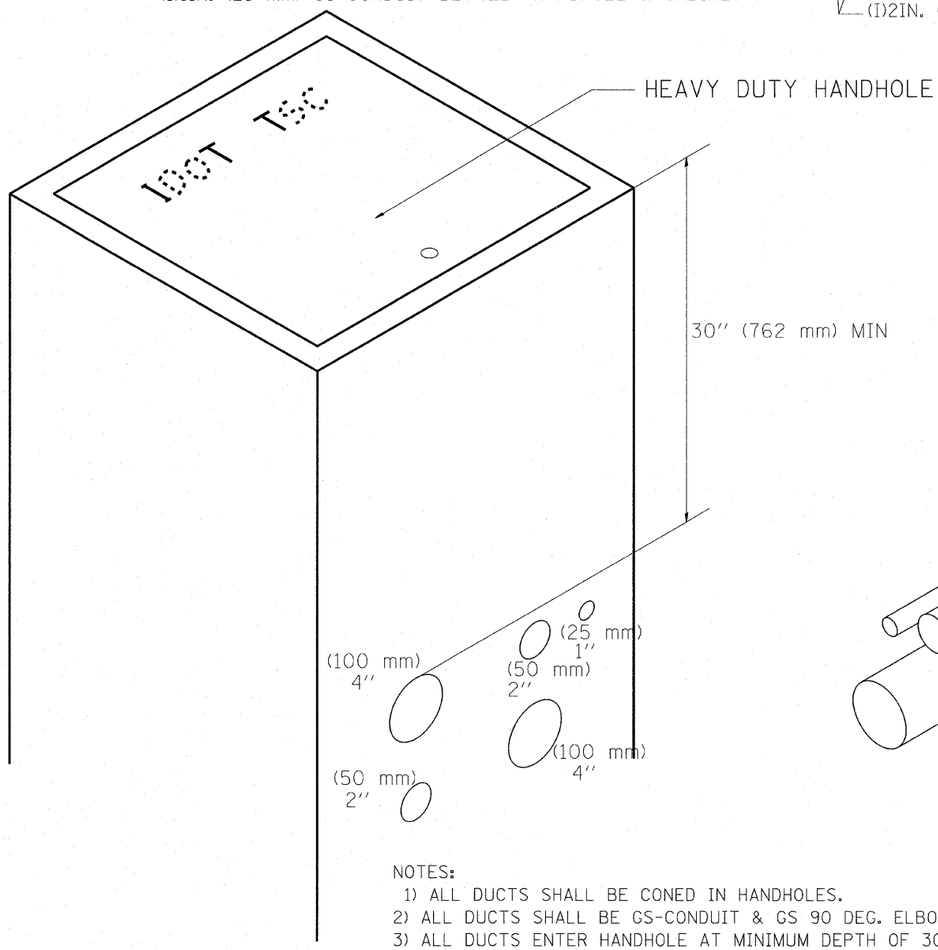
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

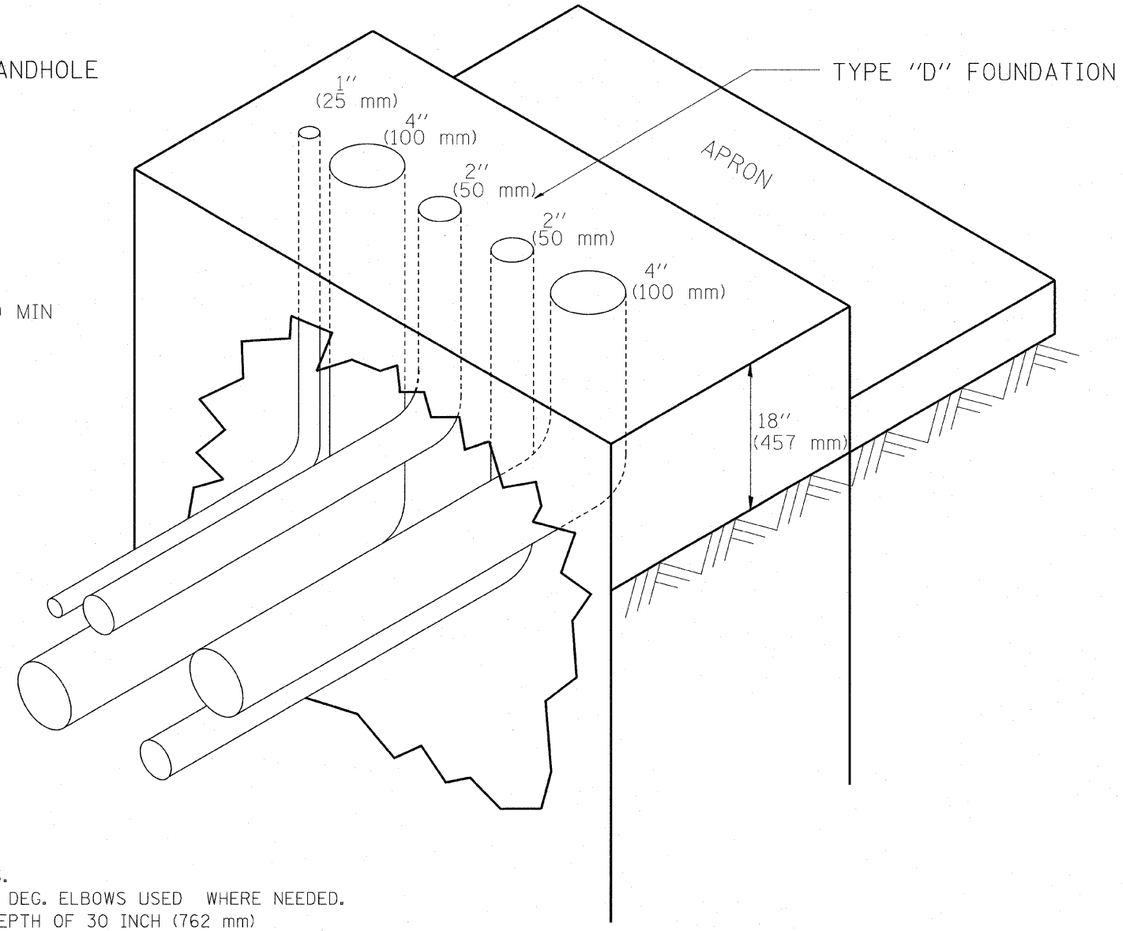
I-55 WIRE DIAGRAMS
LORENZO RD. TO I80

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-1121	WILL	66	31
		CONTRACT 60J24		
		ILLINOIS FED. AID PROJECT		



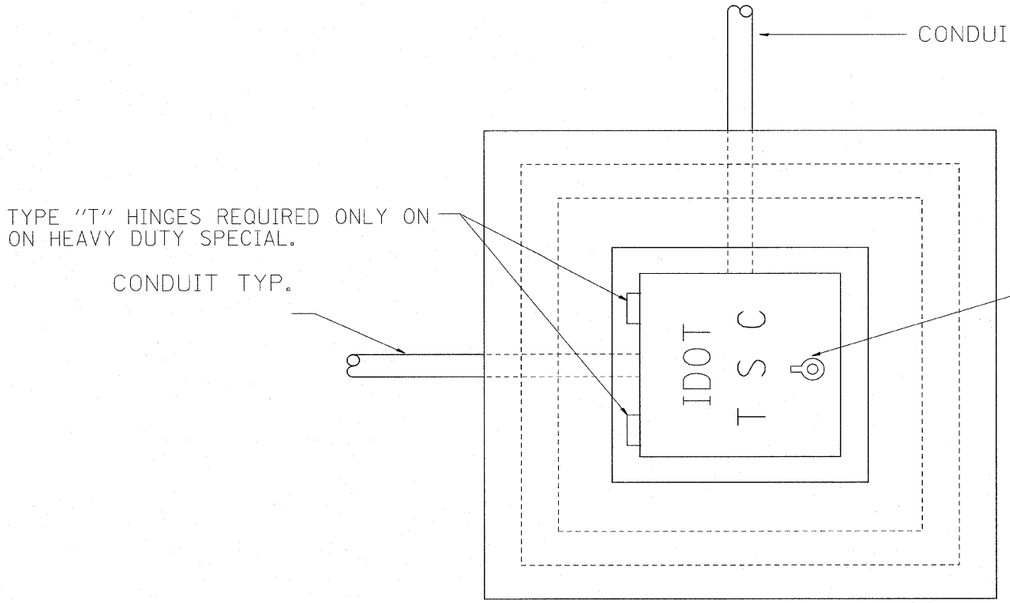




NOTES:

1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
6) DUCTS SHALL BE CENTERED IN CABINET FOUNDATION/HANDHOLE AS SHOWN.
7) CONDUITS SHALL BE SPACED 305 mm (1 FOOT) CENTER TO CENTER IN HEAVY DUTY HANDHOLE.
8) INSTALL 3/4" X 10' (20 mm X 3 m) COPPER CLAD STEEL GROUND ROD IN HDHH PROVIDED AS CABINET PAD. EXOTHERMIC WELD CONNECTION FROM GROUND ROD TO #6 GROUND WIRE INSULATED (GREEN).
9) BOND ALL GSC CONDUITS IN CABINET FOUNDATION.
10) INSTALL #6 GROUND WIRE IN 1IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.

FILE NAME = C:\d106010\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - R.L.	REVISED - 09/96	**STATE OF ILLINOIS**	CABINET - HANDHOLE CONDUIT DETAIL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn		DRAWN - G.M.	REVISED - 03/99	**DEPARTMENT OF TRANSPORTATION**						56	32
	PLOT SCALE = $SCALE$	CHECKED - R.L.	REVISED - 04/99	TRAFFIC SYSTEMS CENTER					CONTRACT NO.		
	PLOT DATE = 3/18/2010	DATE - 06/05/95	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

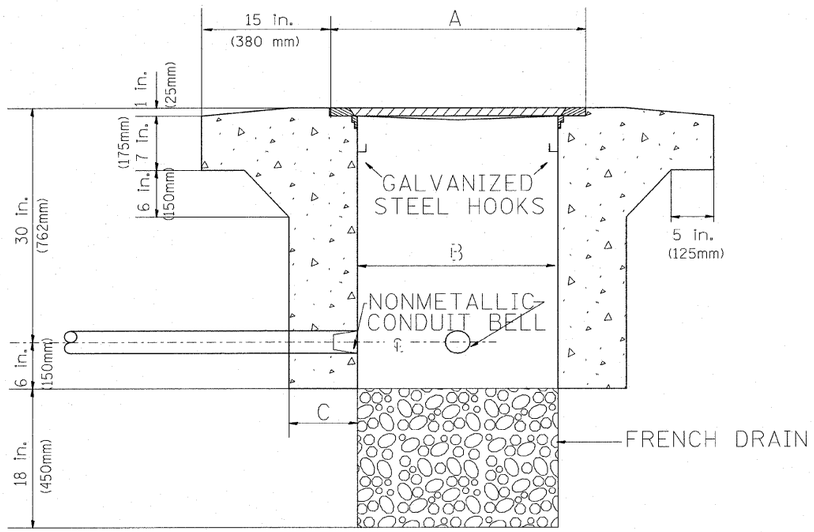


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30" (762 mm)
C	10" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE

FILE NAME = C:\d1806010\I65TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - R.L.	REVISED - 04/97
P:\P-27-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn		DRAWN - G.M.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.L.	REVISED -
	PLOT DATE = 3/18/2010	DATE - 09/11/98	REVISED -

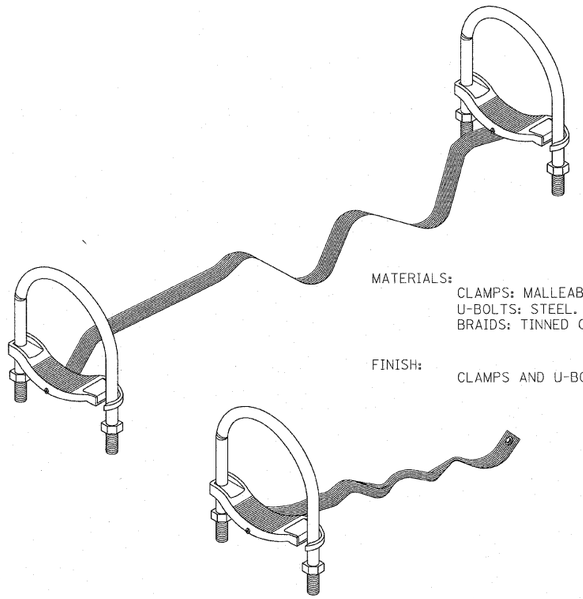
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

PC CONCRETE - HEAVY DUTY HAND HOLE

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	33
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

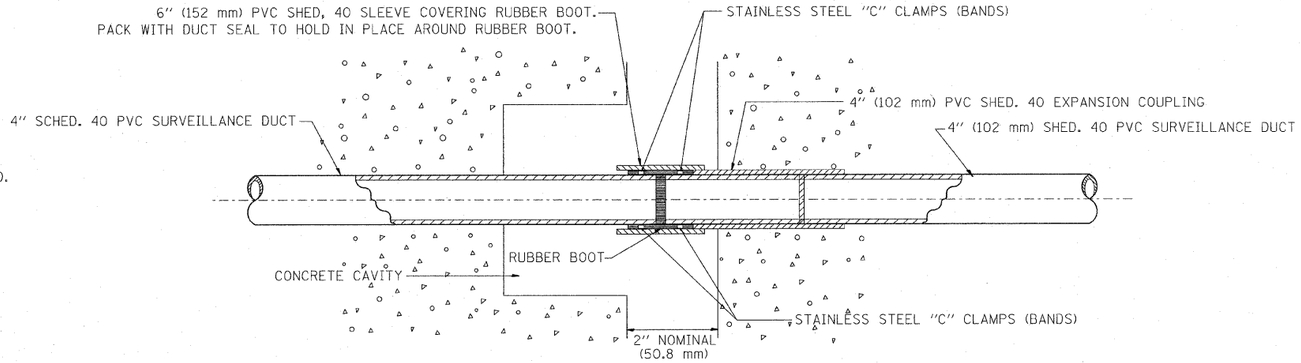
TRAFFIC SYSTEMS CENTER (TY-1TSC-400#15)



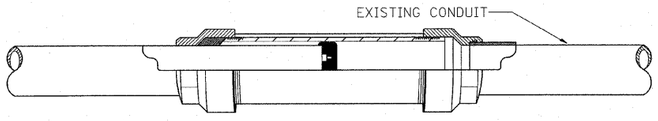
MATERIALS:
CLAMPS: MALLEABLE OR DUCTILE IRON.
U-BOLTS: STEEL.
BRAIDS: TINNED COPPER.

FINISH:
CLAMPS AND U-BOLTS ARE HOT DIP GALVANIZED.

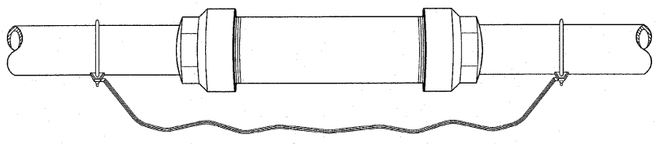
GROUNDING & BONDING JUMPERS FOR RIGID STEEL, IMC & EMT



EXPANSION/DEFLECTION FITTING



CROSS SECTION

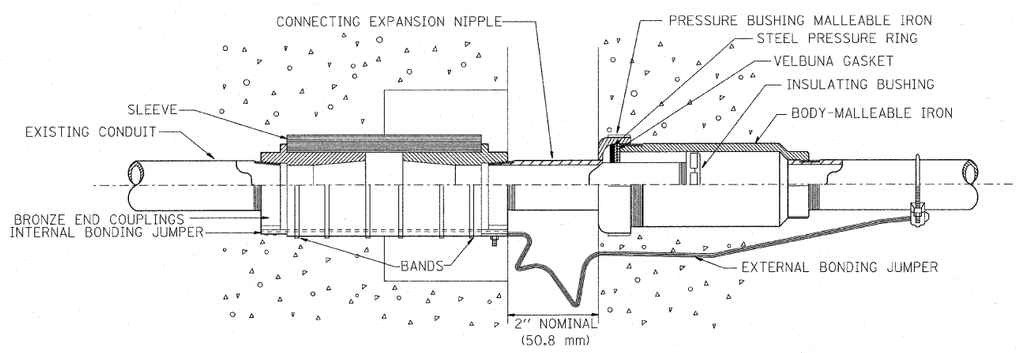


BONDING

EXPANSION FITTINGS

MATERIALS:
HEAD: MALLEABLE OR DUCTILE IRON.
SLEEVE: STEEL.
INSULATING BUSHING: PHENOLIC.

FINISH:
HOT DIP GALVANIZED.



COMBINATION DEFLECTION/EXPANSION FITTINGS FOR RIGID METAL CONDUIT & IMC

FITTING CAN BE USED EXPOSED OR EMBEDDED IN CONCRETE.

MATERIALS:
SLEEVE: NEOPRENE.
END COUPLINGS: BRONZE.
BONDING JUMPER: TINNED COPPER BRAIDS.
BANDS: STAINLESS STEEL.

FINISH:
ALL MALLEABLE, DUCTILE IRON OR STEEL PARTS ARE HOT DIP GALVANIZED.

FILE NAME = C:\dl0601Ø\155TSCTYP.DGN	USER NAME = rdehhan	DESIGNED - R.L.	REVISED - Ø3/99
P:\P-Ø7-16ØØ-12\Client\TSC Plans\SUBI55TSCTYP.dgn		DRAWN - G.M.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.L.	REVISED -
	PLOT DATE = 3/16/2010	DATE - Ø1/22/98	REVISED -

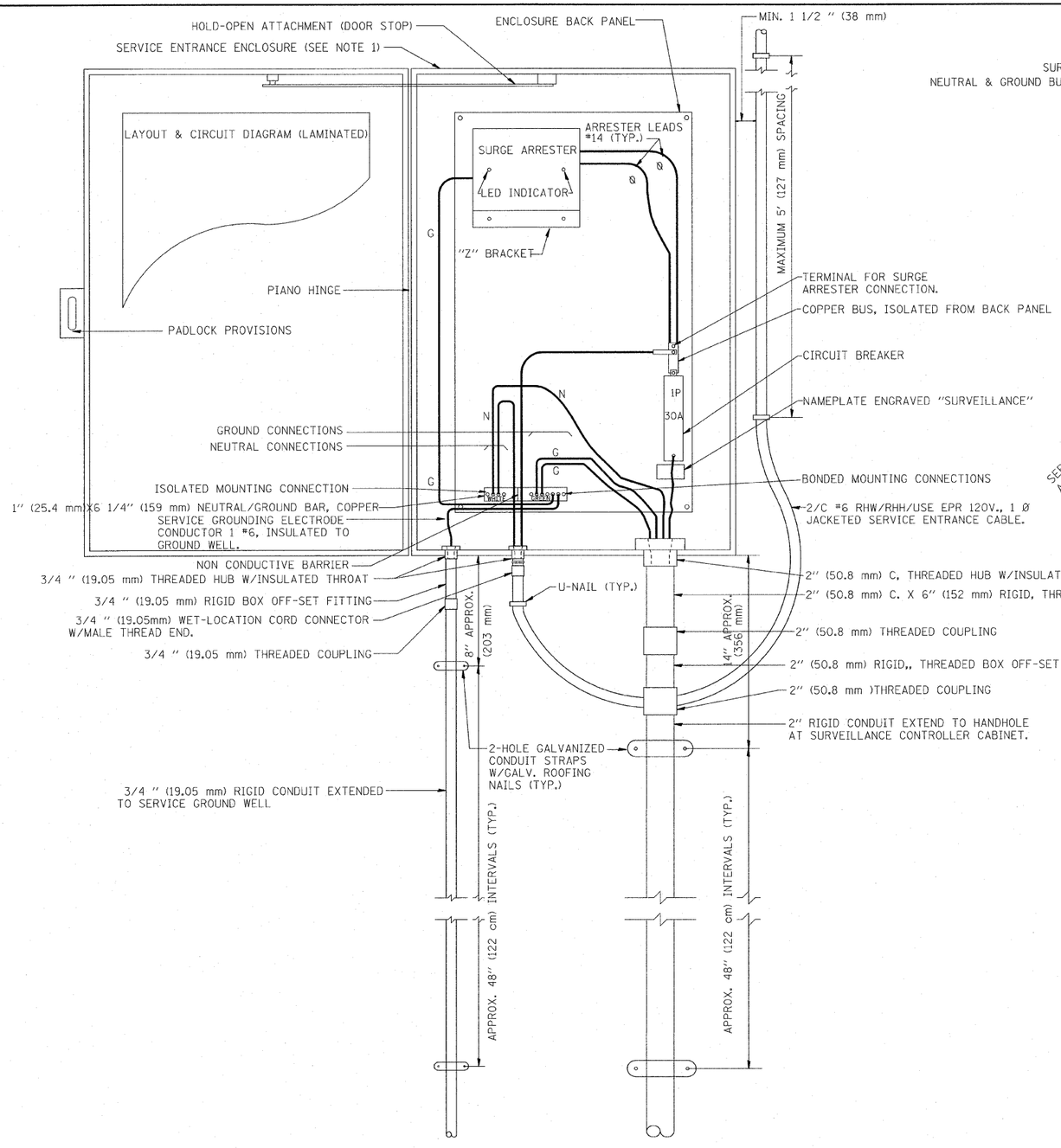
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

EXPANSION FITTING
DETAIL SHEET

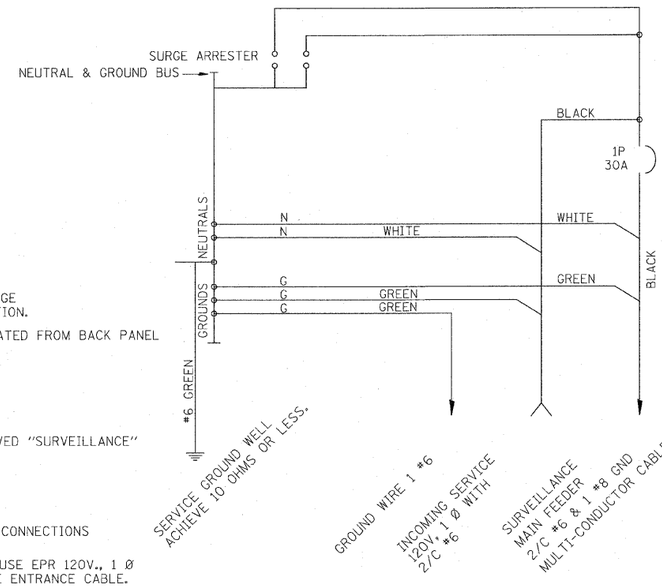
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	34
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#18)



ELECTRIC SERVICE
GENERAL LAYOUT DIAGRAM



SCHEMATIC DIAGRAM

NOTES:

1.- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED. WHERE 120-VOLT SERVICE IS INDICATED, SERVICE DROP CABLE SHALL BE INSTALLED ACCORDINGLY AND LIGHTING MAIN FEEDER CABLE SHALL BE OMITTED.

2.- THE ELECTRIC SERVICE BOX SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" (305 mm) X 18" (457 mm) X 8" (203 mm), WITH PIANO HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS, DOOR STOP KIT AND STEEL BACK PANEL, HOFFMAN CATALOG A-16H1208SS6LP/A-16P2/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.

3.- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.

4.- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE ⚠ TRIP FREE.

5.- THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF >3600 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 65 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV 230L065XST OR APPROVED EQUAL. SURGE PROTECTOR SHALL BE WIRED FOR 120 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.

6.- 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.

7.- 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.

8.- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.

9.- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.

10.- PROVIDE ON LAYOUT AND CIRCUIT DIAGRAM A BILL OF MATERIALS USED WITH CATALOG NUMBERS.

11.- REFER TO T.S.C. TYPICAL DRAWING TY-1TSC-400#20 FOR POLE MOUNTED DISCONNECT MOUNTING DETAILS.

FILE NAME = C:\dl06010\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - R.L.	REVISED - 03/01/99
P:\P-07-1600-12\Client\TSC Plans\SUB155TSCTYP.dgn		DRAWN - G.M.	REVISED - 03/30/99
	PLOT SCALE = $SCALE$	CHECKED - R.L.	REVISED - 04/99
	PLOT DATE = 3/18/2010	DATE - 02/24/99	REVISED - 04/12/99 ⚠

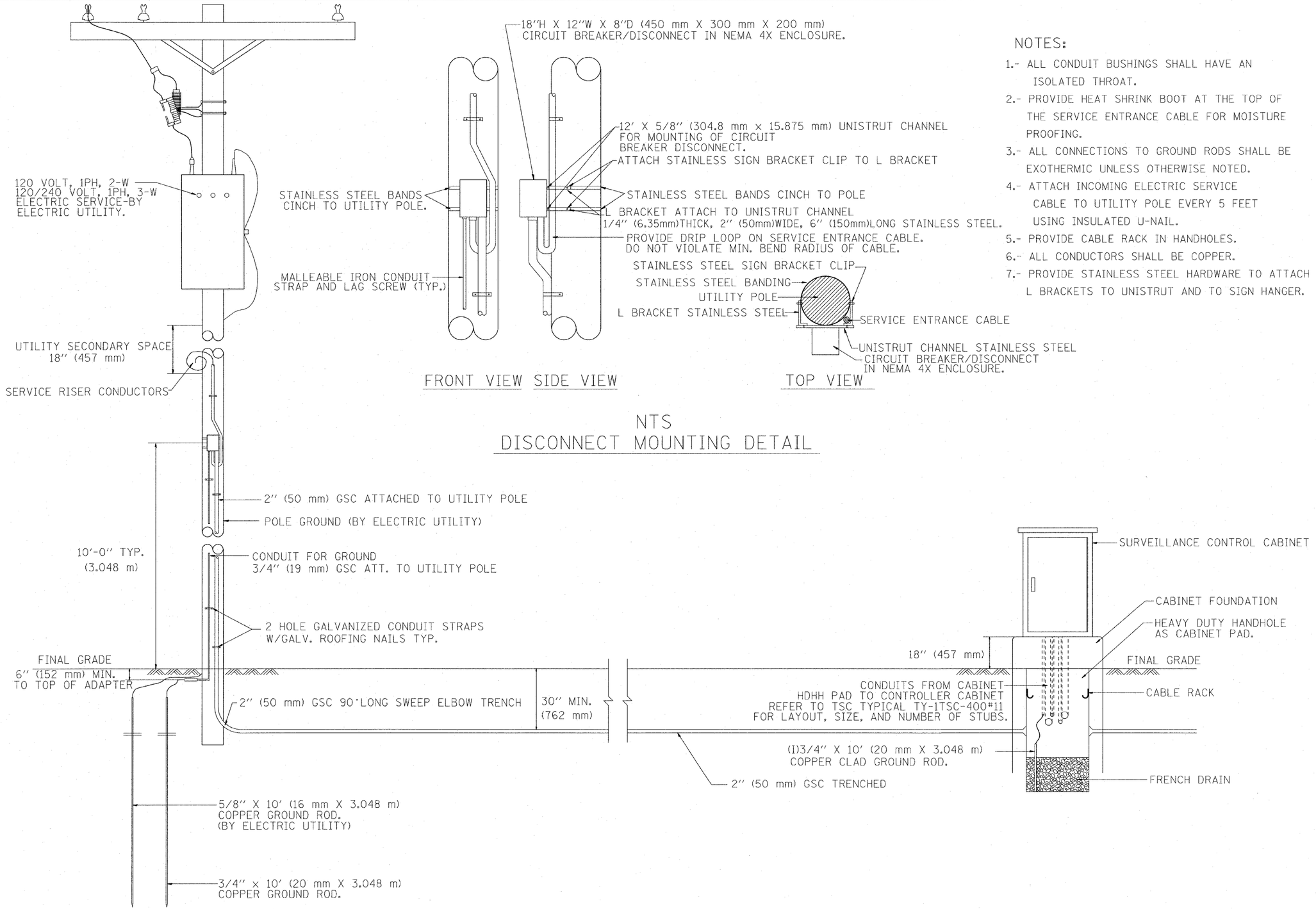
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

DISTRICT 1
SURVEILLANCE POLE-MOUNTED
ELECTRIC SERVICE BOX DETAIL

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	35
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#19)



NOTES:

1.- ALL CONDUIT BUSHINGS SHALL HAVE AN ISOLATED THROAT.
2.- PROVIDE HEAT SHRINK BOOT AT THE TOP OF THE SERVICE ENTRANCE CABLE FOR MOISTURE PROOFING.
3.- ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC UNLESS OTHERWISE NOTED.
4.- ATTACH INCOMING ELECTRIC SERVICE CABLE TO UTILITY POLE EVERY 5 FEET USING INSULATED U-NAIL.
5.- PROVIDE CABLE RACK IN HANDHOLES.
6.- ALL CONDUCTORS SHALL BE COPPER.
7.- PROVIDE STAINLESS STEEL HARDWARE TO ATTACH L BRACKETS TO UNISTRUT AND TO SIGN HANGER.

NTS

DISCONNECT MOUNTING DETAIL

FILE NAME = P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn	USER NAME = rdahhan	DESIGNED - R.L.	REVISED -
		DRAWN - G.M.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.L.	REVISED -
	PLOT DATE = 3/18/2010	DATE - 03/30/99	REVISED -

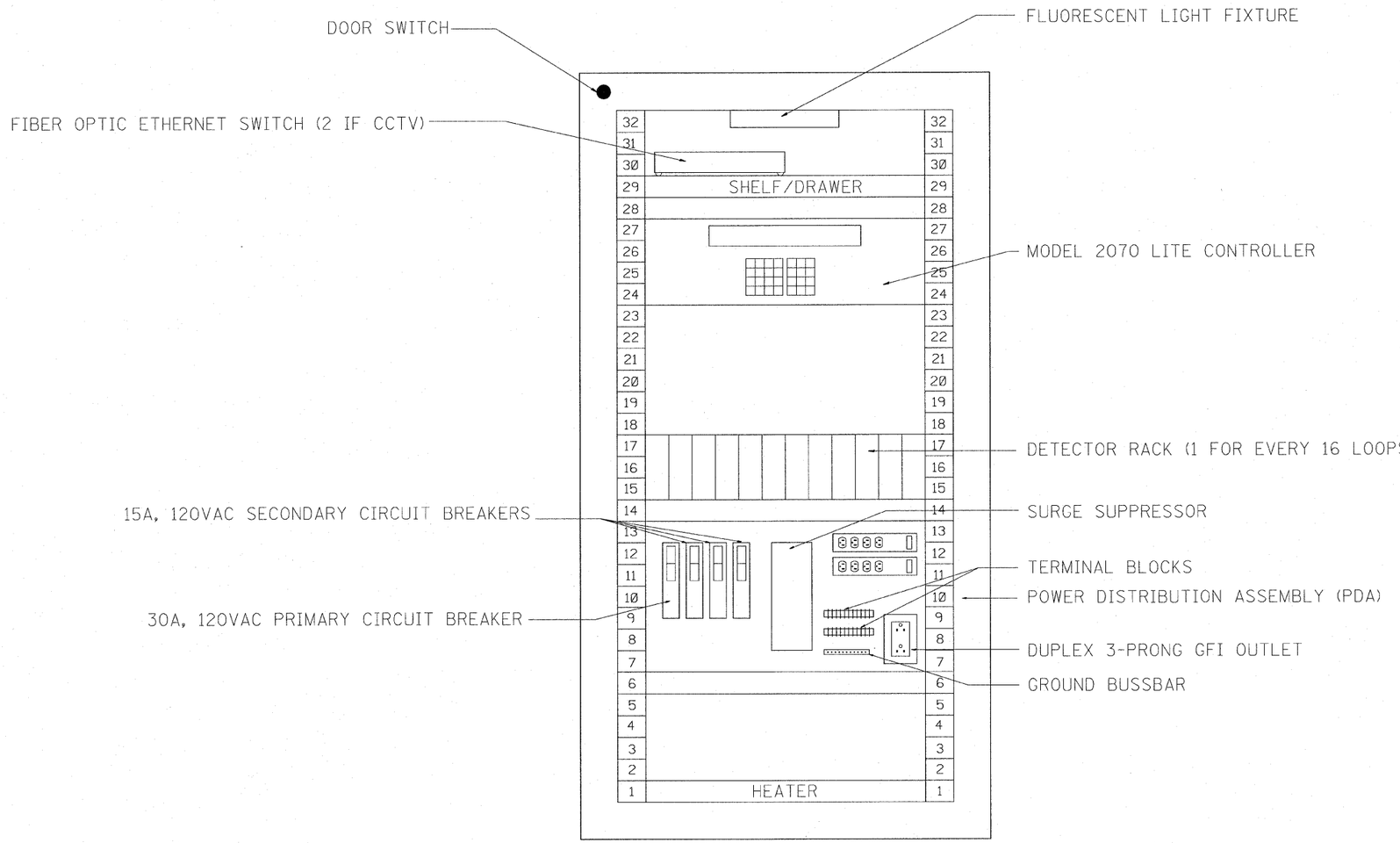
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

POLE MOUNTED
DISCONNECT MOUNTING DETAILS

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	36
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#20)



SYSTEM DETECTORS
FRONT VIEW (TYPICAL)

FILE NAME = C:\d1060101\I55TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - J.G.	REVISED - 01/27/2010
P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn		DRAWN - G.M.	REVISED - 03/04/2010
	PLOT SCALE = $SCALE$	CHECKED - R.L.	REVISED -
	PLOT DATE = 3/18/2010	DATE - 12/28/09	REVISED -

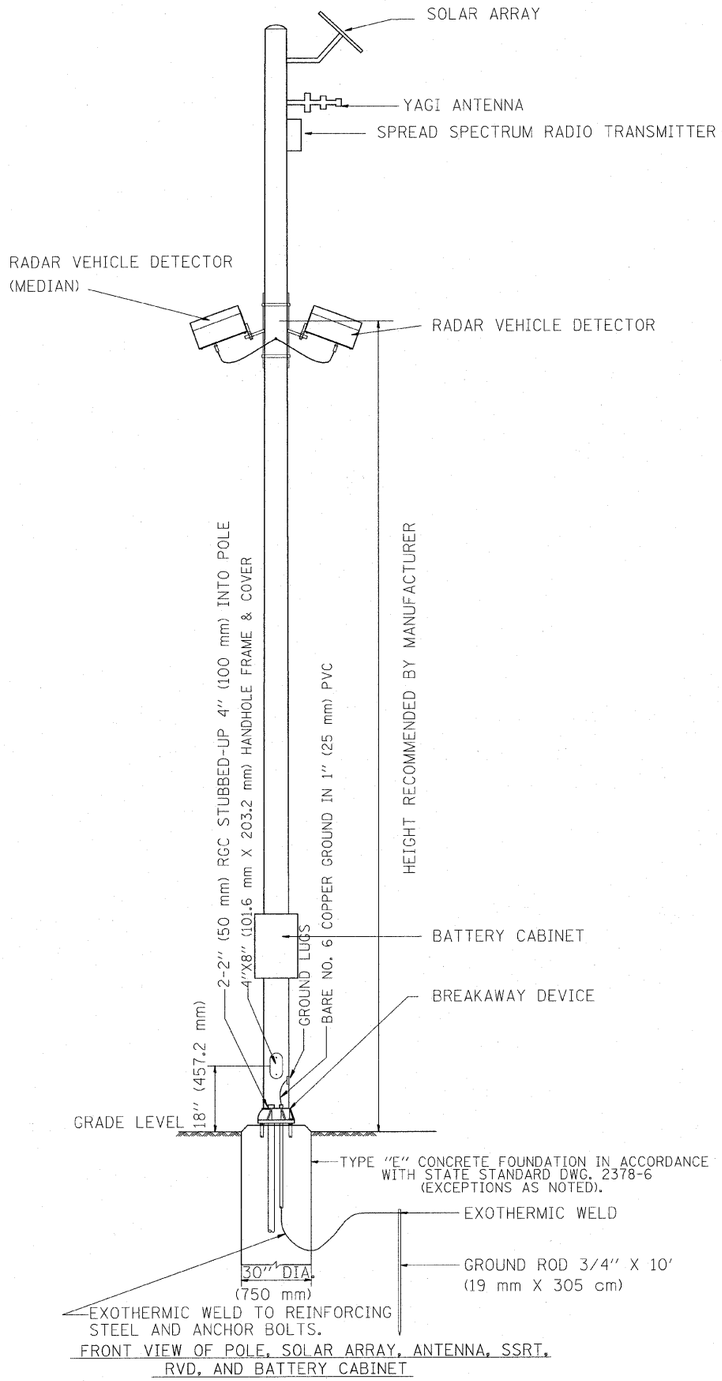
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

CABINET, MODEL 334
RACK LAYOUT

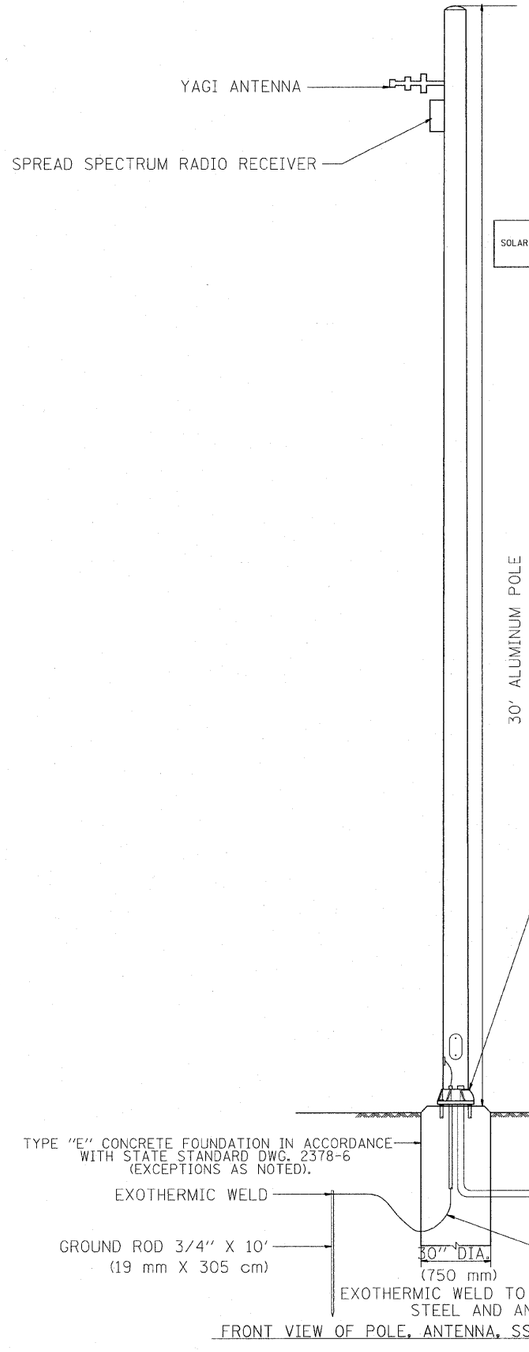
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	37
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

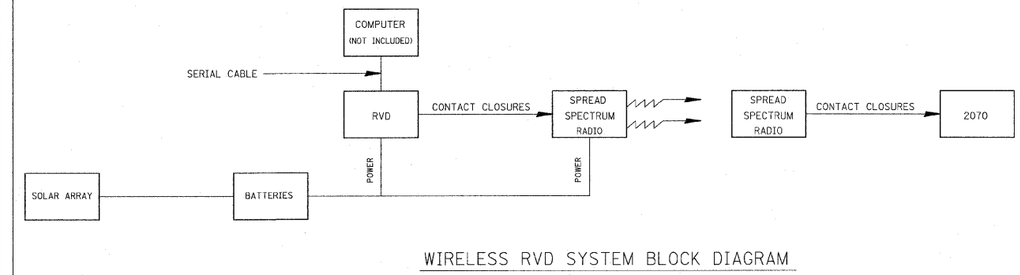
TRAFFIC SYSTEMS CENTER (TY-1TSC-400#37)



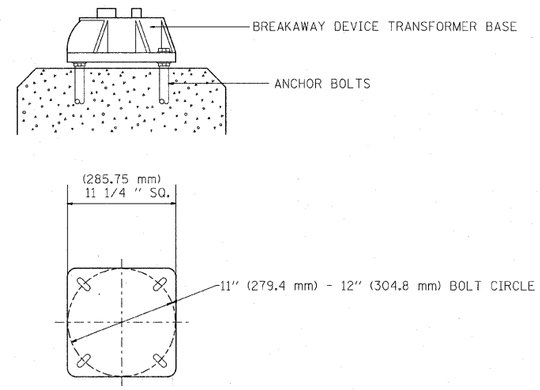
FRONT VIEW OF POLE, SOLAR ARRAY, ANTENNA, SSRT, RVD, AND BATTERY CABINET



FRONT VIEW OF POLE, ANTENNA, SSRR, AND 334 CABINET



WIRELESS RVD SYSTEM BLOCK DIAGRAM



BASE DETAIL

FILE NAME = C:\d1060101\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - J.G.	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** TRAFFIC SYSTEMS CENTER	SOLAR POWERED SPREAD SPECTRUM RADAR VEHICLE DETECTOR	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn		DRAWN - G.M.	REVISED -						56	38
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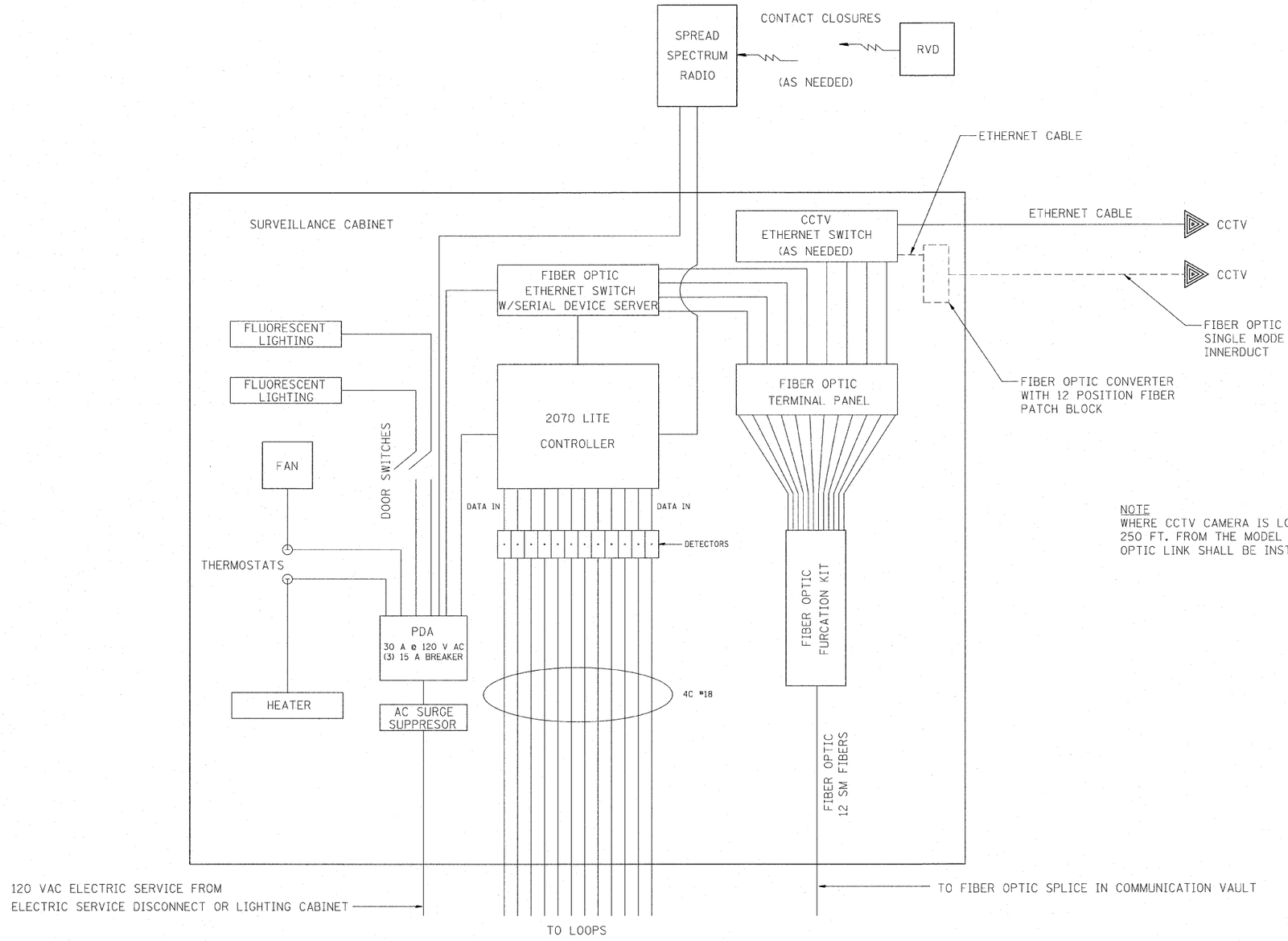
	PLOT DATE = 3/18/2010	DATE - 06-30-04	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#38)



NOTE
WHERE CCTV CAMERA IS LOCATED GREATER THAN 250 FT. FROM THE MODEL 334 CABINET, A FIBER OPTIC LINK SHALL BE INSTALLED AS SPECIFIED.

12 LOOP COUNT, OCCS, SPEED, CLASSIFICATION DETECTOR SYSTEM SINGLE LINE DIAGRAM

FILE NAME = C:\d1060010\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - J.G.	REVISED - 01/25/2010
P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn		DRAWN - G.M.	REVISED -
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	PLOT DATE = 4/20/2010	DATE - 12/29/09	REVISED -

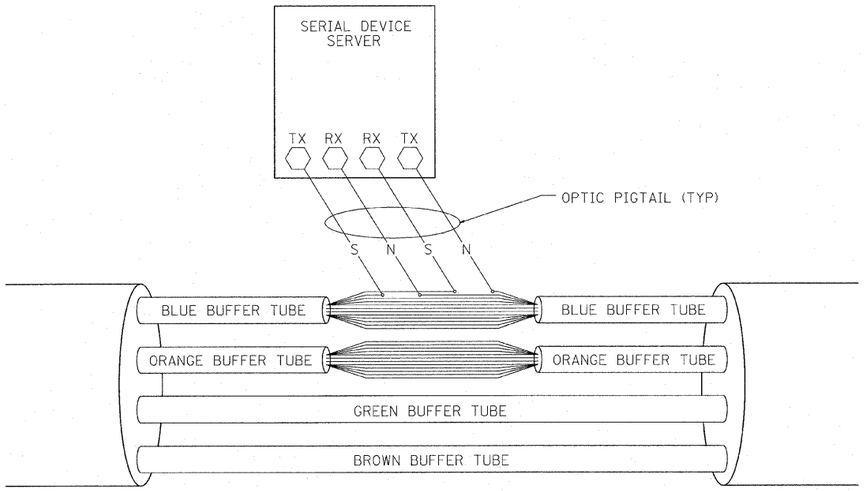
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

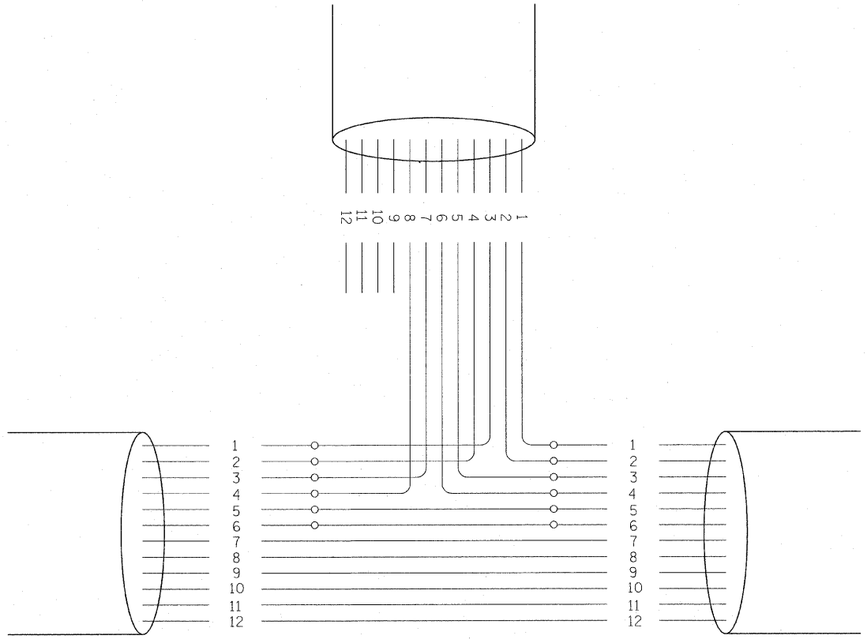
CABINET MODEL 334
WIRING DETAILS

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	39
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#39)





PHYSICAL SPLICE DETAILS (TYP)

(NOT TO SCALE)

FIBERS		FUNCTION	APPLICATION DESCRIPTION
FIBER NO.	COLOR CODE		
1	BLUE	IN TX	DATA CIRCUIT
2	ORANGE	IN RX	
3	GREEN	OUT RX	
4	BROWN	OUT TX	
5	SLATE	IN TX	DMS
6	WHITE	IN RX	
7	RED	OUT RX	
8	BLACK	OUT TX	
9	YELLOW	IN TX	CCTV
10	VIOLET	IN TX	
11	ROSE	OUT RX	
12	AQUA	OUT TX	

NOTE:

1.- THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE.

FILE NAME = C:\d186010\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - J.G.	REVISED - 03/04/2010
P:\P-07-1600-12\Client\TSC Plans\SUB155TSCTYP.dgn		DRAWN - G.M.	REVISED -
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	PLOT DATE = 3/18/2010	DATE - 12/29/09	REVISED -

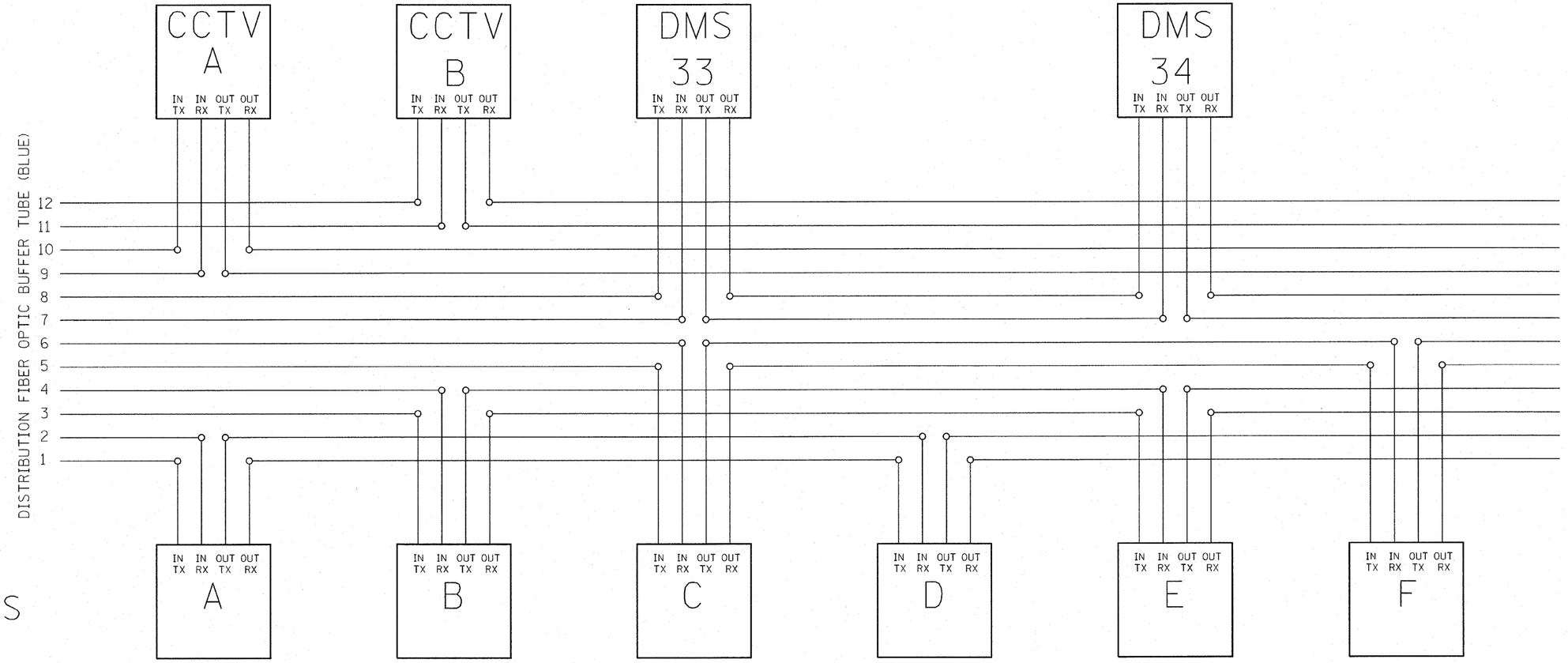
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC SPLICING TYPICAL

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	40
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400*41)



FIBERS 1 AND 2 CABINETS 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49.
FIBERS 3 AND 4 CABINETS 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41, 44, 47, 50.
FIBERS 5 AND 6 CABINETS 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48.
FIBERS 7 AND 8 DMS 33, DMS 34.
FIBERS 9 AND 10 CCTV 50, 49, 47B, 47, 45, 43A, 42, 40, 38, 37, 35A, 34, 32, 30A, 29.
FIBERS 11 AND 12 CCTV 51, 49A, 48, 47A, 46, 44, 43, 40A, 39, 37A, 36, 35, 32A, 31, 30.

NOTE:

1.- CABINETS 8A, 8B, 8C, 32, 33, 39, 46, 47 ARE SPSSRVDS, SO THEY DO NOT GET ATTACHED TO THE FIBER.
2.- CCTV 49 AND 49A ARE IN THE ARSENAL RD. CONTRACT.

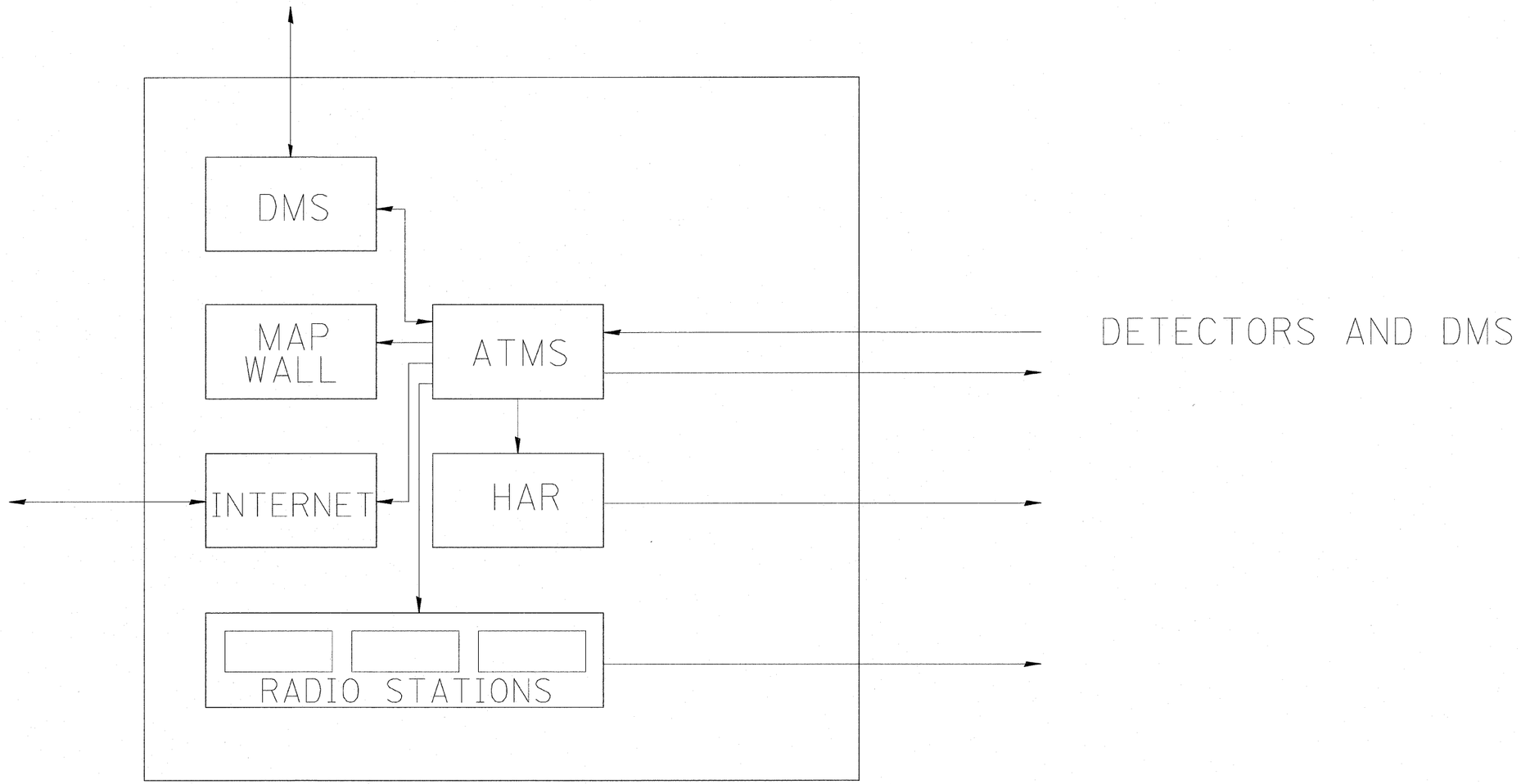
FILE NAME = C:\LORENZO180-3-17-2010 C:\LORENZO180-3-17-2010\SUBI55TSCTYP.dgn	USER NAME = mezag	DESIGNED - J.G.	REVISED - 01/27/2010
		DRAWN - G.M.	REVISED - 03/05/2010
	PLOT SCALE = 95.4545 ' / IN.	CHECKED - J.G.	REVISED - 04/08/2010
	PLOT DATE = 4/8/2010	DATE - 12/29/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIBER OPTIC
SPLICING DETAIL

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-11121	WILL	56	41
		CONTRACT 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TSC

FILE NAME = C:\dl06010\155TSCTYP.DGN P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn	USER NAME = rdahhan	DESIGNED - J.G.	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** TRAFFIC SYSTEMS CENTER	TSC ATMS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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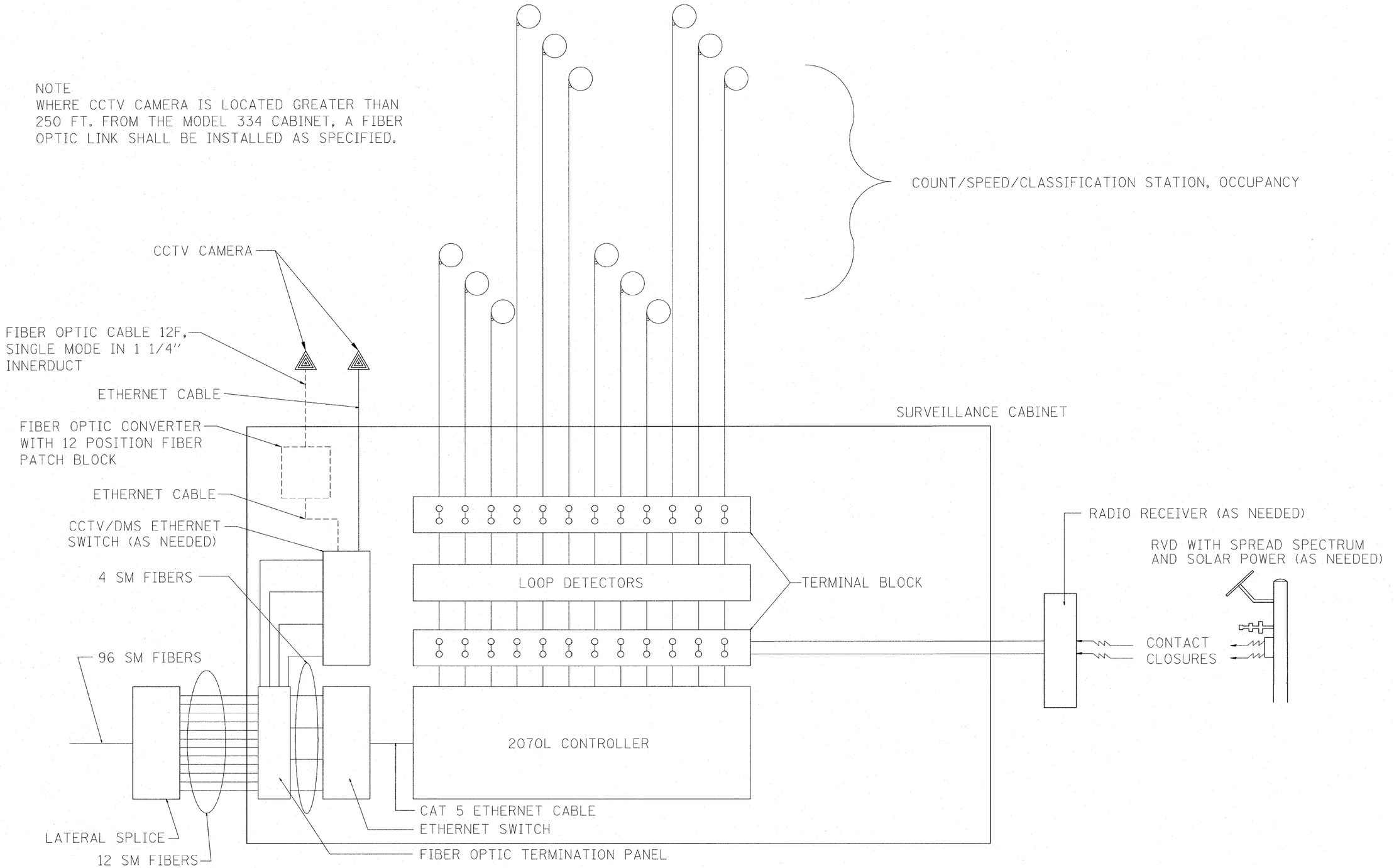
		DATE - 01/07/2010	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE
WHERE CCTV CAMERA IS LOCATED GREATER THAN 250 FT. FROM THE MODEL 334 CABINET, A FIBER OPTIC LINK SHALL BE INSTALLED AS SPECIFIED.



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	PLOT DATE = 4/20/2010	DATE - 12/29/09	REVISED -

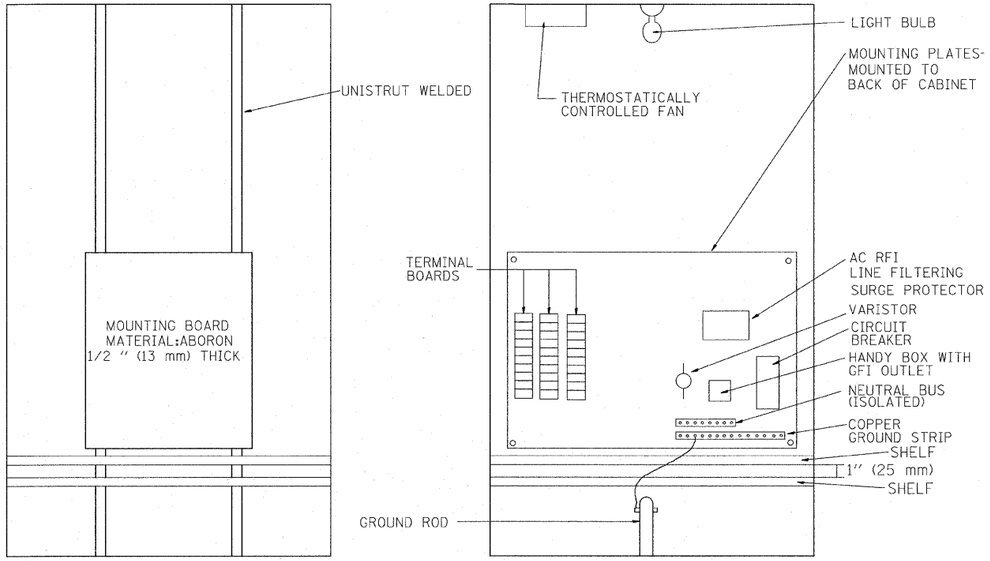
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

LOOP DETECTOR/SPEED DETECTOR CABINET LAYOUT

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

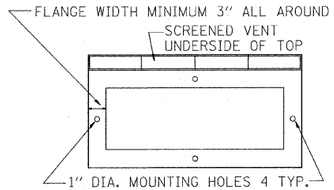
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	43
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#44)



SIDE VIEW ESP 3 & 4 CABINET

ESP 3 CABINET



BOTTOM VIEW
MOUNTING PATTERN

TYPICAL CABINET INTERIORS

STANDARD TRAFFIC SYSTEMS CENTER CABINETS

MINIMUM DIMENSIONS INSIDE

TYPE	HEIGHT (IN-mm)	WIDTH (IN-mm)	DEPTH (IN-mm)	THICKNESS (IN-mm)	MATERIAL
ESP1	22.5" (571.5 mm)	14.25" (361.95mm)	9.75" (247.65mm)	3/16 " (4.76mm)	FABRICATED ALUMINUM
ESP2	36" (914.4mm)	20" (508.0mm)	15" (381.0mm)	73/16" (4.76mm)	FABRICATED ALUMINUM
ESP3	49.5" (1.26 m)	30" (762.0mm)	17" (431.8mm)	3/16 " (4.76mm)	FABRICATED ALUMINUM
ESP4	55" (1.4 m)	44" (1.12 m)	26" (660.4mm)	3/16" (4.76mm)	FABRICATED ALUMINUM

NOTES:

1. CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE. SIGNAL POSTS AND HEADS TO BE FEDERAL YELLOW 89-19(MAUTZ).
2. CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
3. ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 10 AMP CIRCUIT BREAKER, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, AS INCIDENTAL TO THE COST OF THE CABINET. CMS CABINETS TYPE IV SHALL HAVE A 60 AMP. CIRCUIT BREAKER MINIMUM.
4. ESP 2/3/4 CABINETS SHALL BE FITTED WITH A THERMOSTATICALLY CONTROLLED FAN. IT SHALL BE MOUNTED AT THE TOP OF THE CABINET. THE FAN SHALL BE CAPABLE OF OPERATING AT 130 CPM AT 160' (48.8 m) OF STATIC WATER PRESSURE. A PORCLAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
5. RAMP METERING ESP 3 TYPE CABINETS SHALL ALSO BE EQUIPPED WITH A LOAD RELAY AND 2 CIRCUIT FLASHER. LAMPS, FAN, LOAD RELAY, AND 2 CIRCUIT FLASHER SHALL BE INCIDENTAL TO THE COST OF THE CABINET
6. INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 INCH (130mm) PCC SIDEWALK OF A RECTANGULAR AREA 3 FEET (915 mm) BY 4 FEET (1.25 m) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE.
7. ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
8. ALL CABINETS SHALL HAVE TERMINAL BLOCKS AND SHELVES AS SHOWN. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
9. THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 0.25 INCH (6.35 mm) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
10. THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 0.25 INCH (6.35 mm) BY 0.75 INCH (19.05 mm), MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 0.875 INCH (22.22 mm) AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 0.14 INCH (3.55 mm) STEEL, MIMIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK. THE HANDLE WILL BE STAINLESS STEEL WITH A 0.75 INCH (19.05 mm) DIAMETER SHANK.
11. THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
12. CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS.
13. ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
14. ESP TYPE 2 & 3 CABINETS FITTED WITH TWO SHELVES AS SHOWN.
15. POST TOP MOUNTED CABINETS, SHALL HAVE A 0.25 INCH (6.3 mm) BOTTOM OF CABINET WELDED.
16. THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS. FLAT WASHERS SHALL BE INSTALLED BELOW AND ABOVE THE BASE PLATE OF THE CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

(X)

EDENS	WALNUT *
KENNEDY	BLUE STREAK **
EISENHOWER	CARIBBEAN BLUE *
I-290/IL53/I-355	POST OFFICE BLUE **
RYAN	YELLOW STONE II **
I-55	MEDIUM BRONZE *
I-57	RED BARON **
CAL-KING	BLUE STREAK **
LAKE SHORE DR.	GREEN *
I-80	STATUARY BRONZE **

ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.

* MORTON POWDER PAINT COLOR OR EQUIVALENT.
** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
*** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS

FILE NAME = C:\d106010\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - J.G.	REVISED -
P:\P-07-1600-12\Client\TSC Plans\SUB155TSCTYP.dgn		DRAWN - G.M.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.G.	REVISED -
	PLOT DATE = 3/18/2010	DATE - 01/25/2010	REVISED -

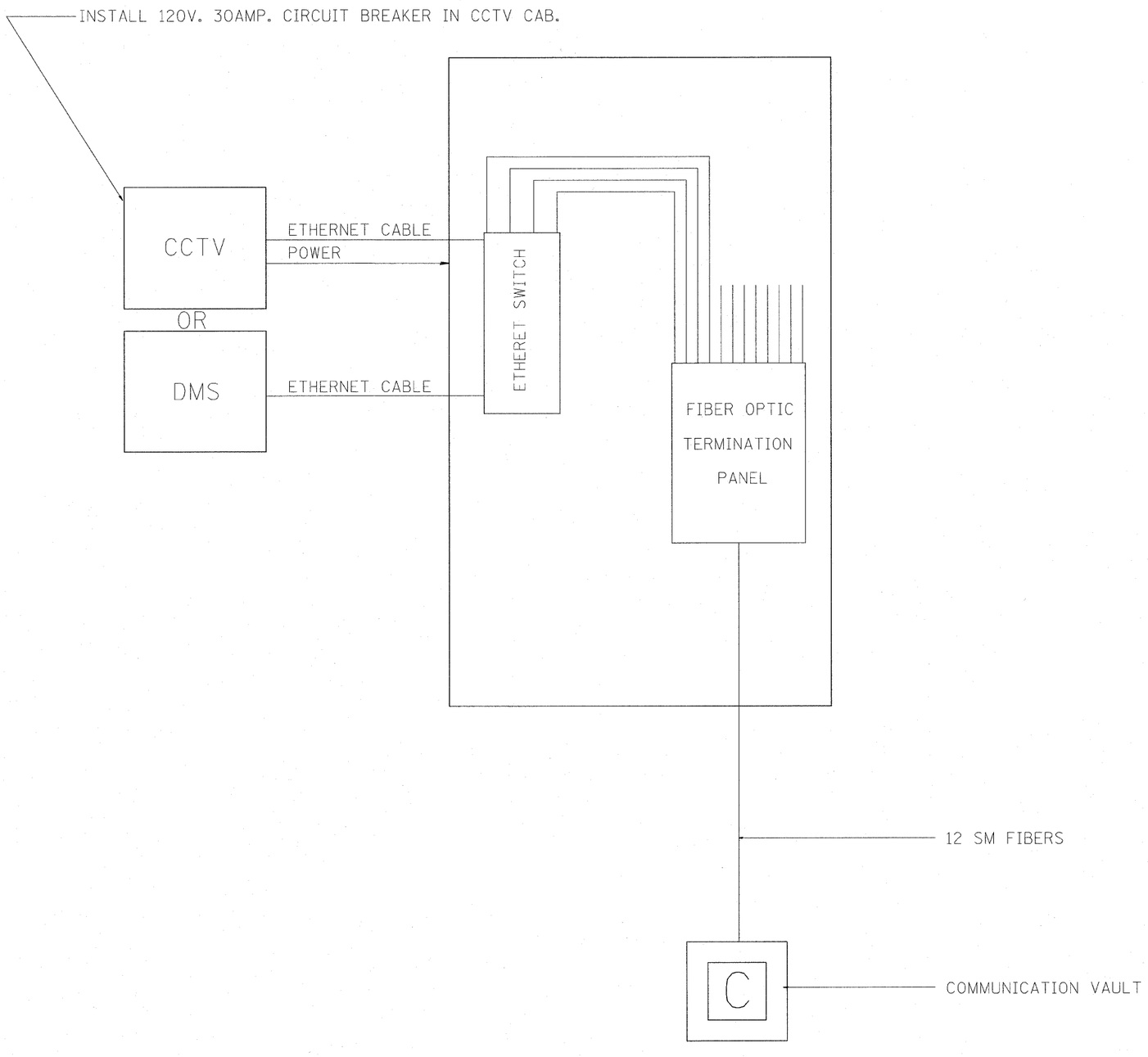
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

CCTV CABINET
DETAIL SHEET

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	44
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400*48)



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	PLOT DATE = 3/18/2010	DATE - 01/25/2010	REVISED -

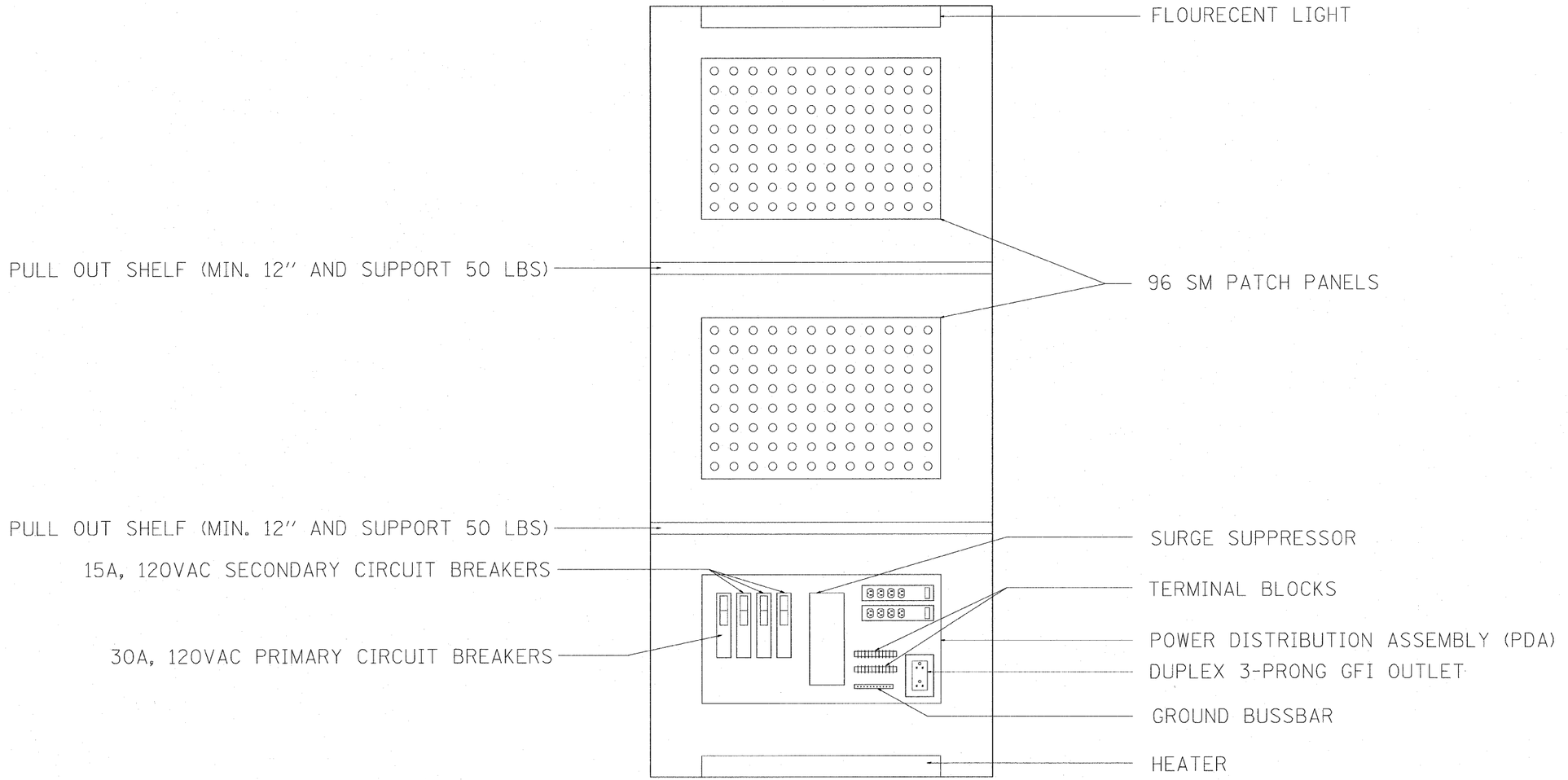
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

CCTV CABINET TYPE 3

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	45
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#49)



TYPE 334 CABINET

FILE NAME = C:\d1060101\155TSCTYP.DGN	USER NAME = rdahhan	DESIGNED - J.G.	REVISED - 03/05/2010
P:\P-07-1602-12\Client\TSC Plans\SUB155TSCTYP.dgn		DRAWN - G.M.	REVISED -
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	PLOT DATE = 3/18/2010	DATE - 01/25/2010	REVISED -

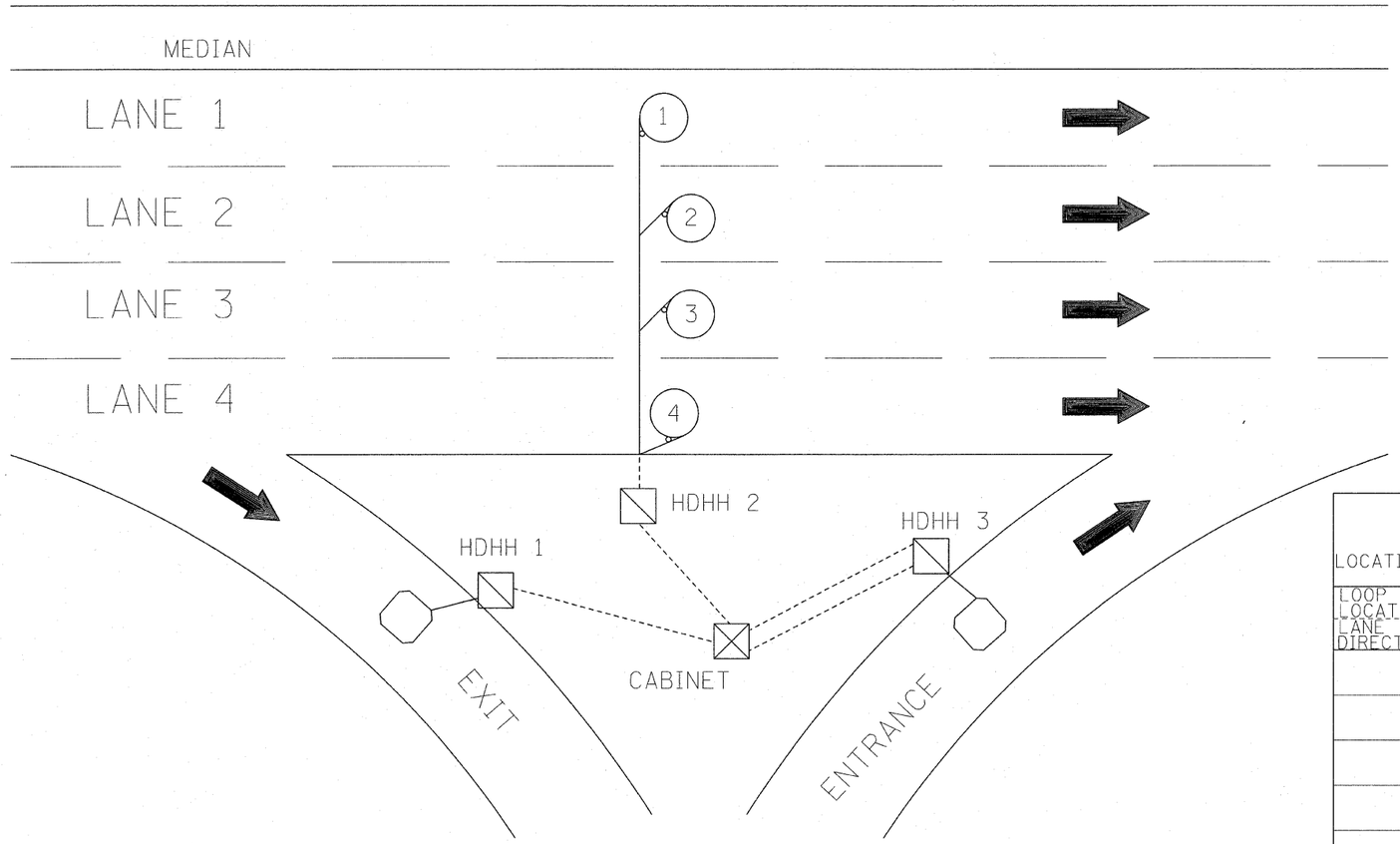
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

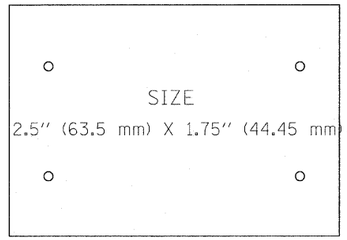
LORENZO RD. PATCH PANEL
TERMINATION CABINET

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	46
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400*51)





SUGGESTED TAG
PANDUIT
#MP25OW175-C
OR EQUIVALENT

LOOP ANALYZER

LOCATION_____ DATE_____

LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET #____

HDHH 2 EXAMPLE

IB (OB) LANE #___
CCW /OUT
TO CABINET #____

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

FILE NAME = P:\P-07-1600-12\Client\TSC Plans\SUBI55TSCTYP.dgn	USER NAME = rdahhan	DESIGNED - J.G.	REVISED -
		DRAWN - G.M.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - J.G.	REVISED -
	PLOT DATE = 3/18/2010	DATE - 01-26-2010	REVISED -

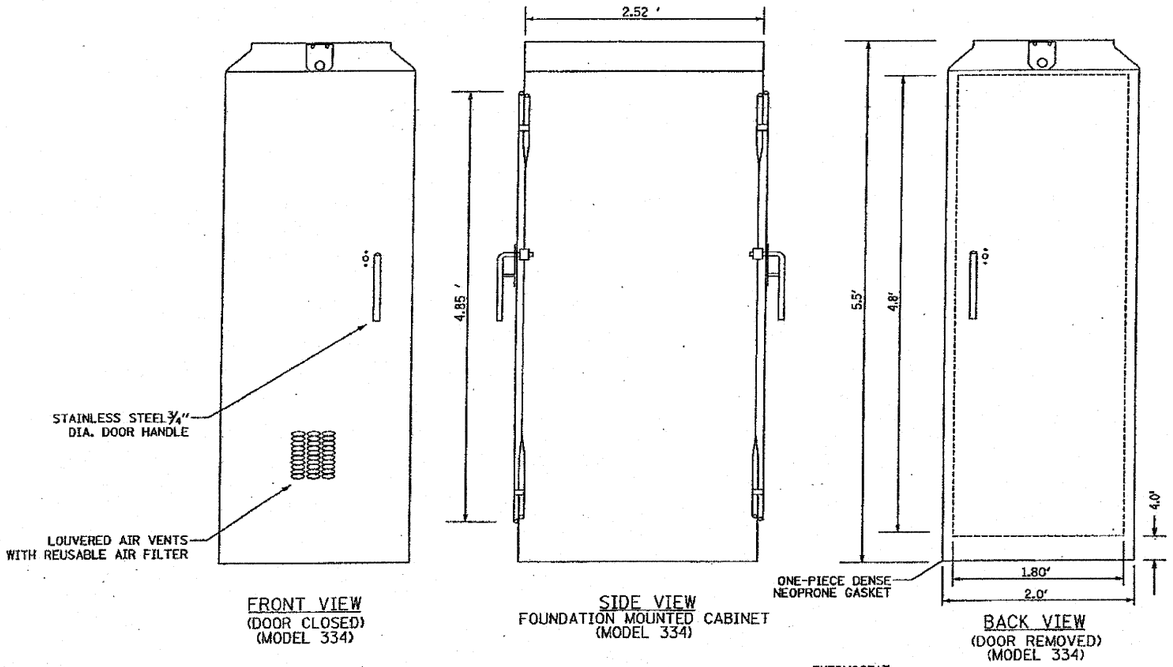
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

LOOP STATUS REPORT

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	47
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

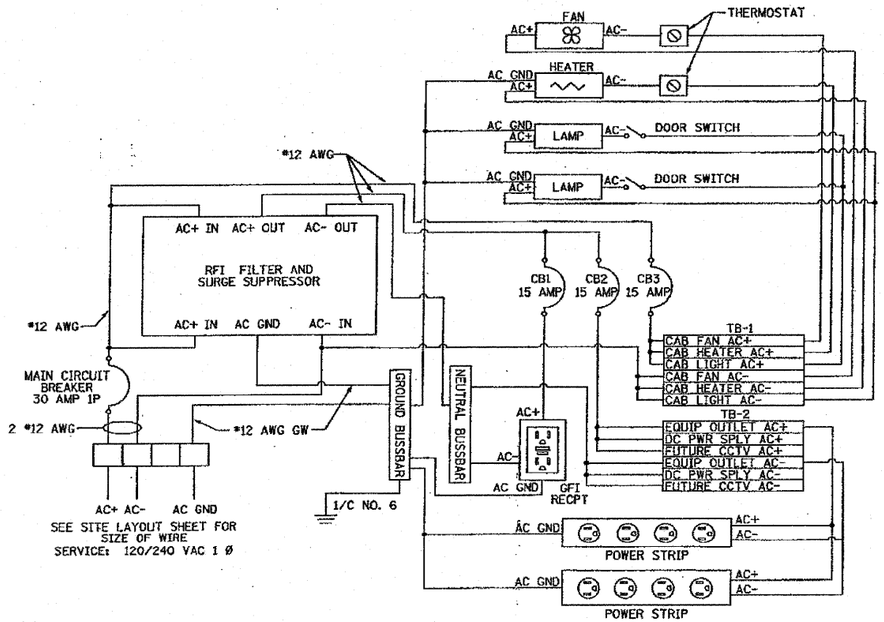
TRAFFIC SYSTEMS CENTER (TY-1TSC-418#7A)



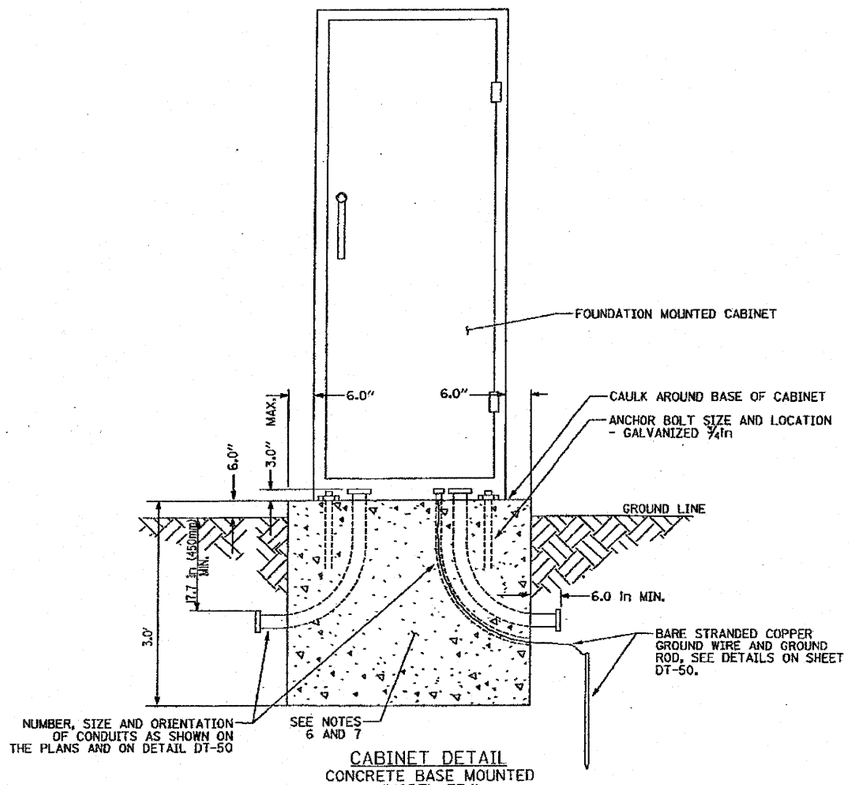
FRONT VIEW
(DOOR CLOSED)
(MODEL 334)

SIDE VIEW
FOUNDATION MOUNTED CABINET
(MODEL 334)

BACK VIEW
(DOOR REMOVED)
(MODEL 334)



SURVEILLANCE CABINET POWER DISTRIBUTION ASSEMBLY (PDA)
NOT TO SCALE



CABINET DETAIL
CONCRETE BASE MOUNTED
(MODEL 334)

NOTES

1. REFER TO SPECIAL PROVISIONS FOR CABINET DETAILS AND ADDITIONAL REQUIREMENTS.
2. CABINET ENTRIES INCLUDE VERTICAL ARRANGEMENT FOR MAJOR EQUIPMENT ITEMS ONLY.
3. INSTALL ADDITIONAL ITEMS ON SIDE AND BACK PANELS PER THE SPECIAL PROVISIONS.
4. THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
5. CONCRETE BASE TO BE FORMED AT LEAST 6.0 In ABOVE THE GROUND SURFACE.
6. CONCRETE BASE MUST BE CAST IN PLACE.
7. ALL WORK INDICATED SHALL BE PAID FOR UNDER ITEM CABINET, MODEL 334 EXCLUSIVE OF THE CONCRETE FOUNDATION.
8. CABINET BOTTOM CONFIGURATION SHALL BE AS DIRECTED BY THE ENGINEER.

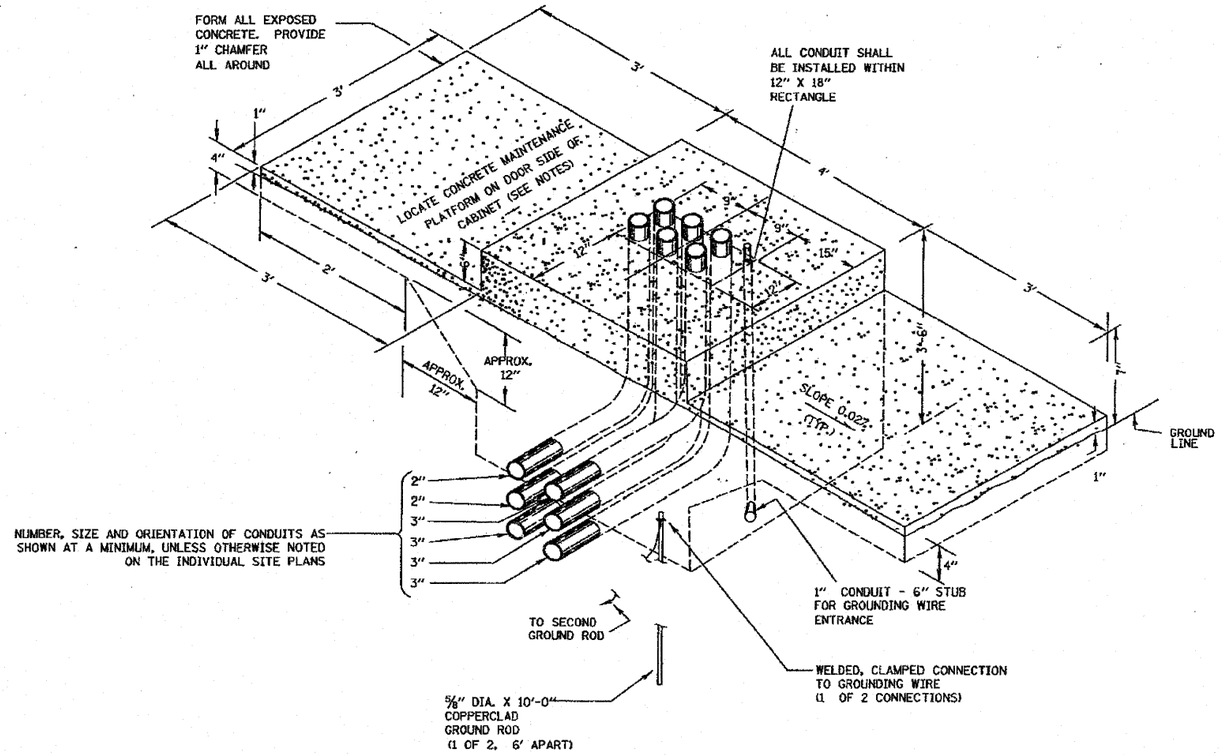
FILE NAME = P:\P-07-1600-12\Client\TSC Plans\Cabinet Model 334 Details.dgn	USER NAME = wingram	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 3/18/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CABINET, MODEL 334 DETAILS

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	48
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL DETAIL
CONCRETE BASE, CONTROLLER CABINET

NOTES

1. INSTALL FOUR ¾ INCH DIAMETER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE CABINET BASES. THE ANCHOR BOLTS SHALL BE GALVANIZED STEEL AND LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.
2. CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL. PRIOR TO CABINET INSTALLATION. LEVELING OF TOP SURFACES AFTER CONCRETE BASE HAS CURED SHALL ONLY BE ACCOMPLISHED BY GRINDING.
3. MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.
4. CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
5. CONCRETE MAINTENANCE PLATFORM AND CABINET FOUNDATION FOR CABINET SHALL BE A MONOLITHIC POUR.
6. WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.
7. CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 3 INCH.
8. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.
9. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.
10. CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
11. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
12. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
13. ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE BUSHINGS AND ALL NON METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS.

FILE NAME = P:\P-07-1800-12\Client\TSC Plans\Concrete Foundation, Type 1 Detail (For Cabinet, Model 334).dgn	USER NAME = wirigram	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 3/18/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
CONCRETE FOUNDATION, TYPE 1 DETAIL (FOR CABINET, MODEL 334)

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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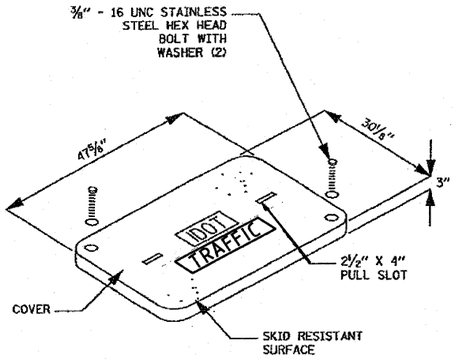
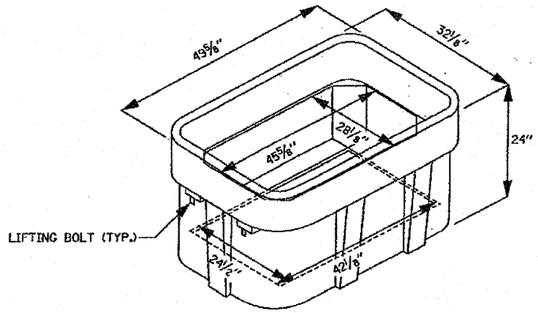
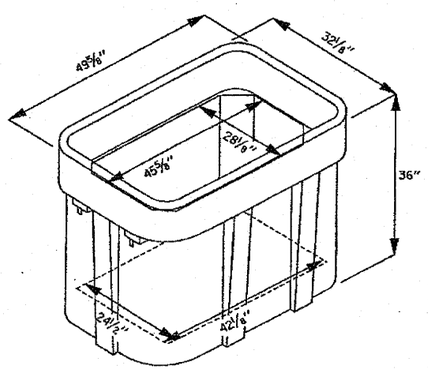
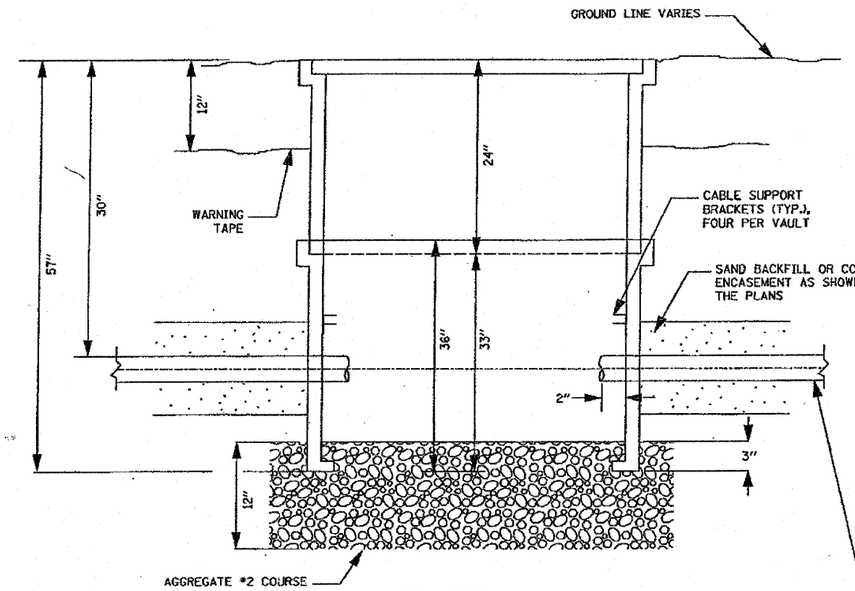
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



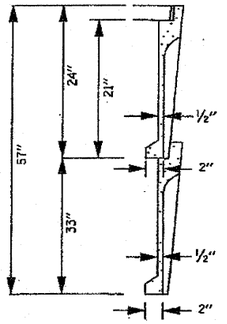




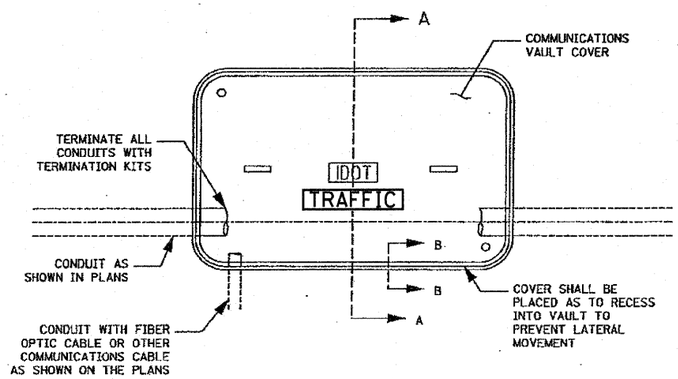
ISOMETRIC



SECTION A-A



SECTION B-B



PLAN

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. COVER SHALL WITHSTAND AASHTO H 20 LOADING AND SHALL LOCK.
3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT.
4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.

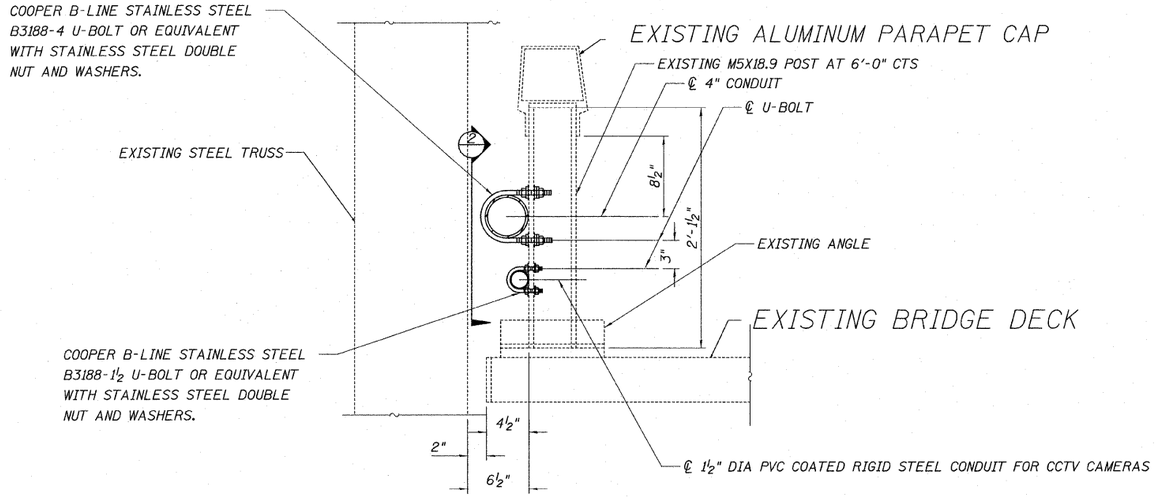
FILE NAME = P:\P-07-1600-12\Client\TSC Plans\Communications Vault Details.dgn	USER NAME = wingram	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 3/18/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
COMMUNICATIONS VAULT DETAILS

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	50
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

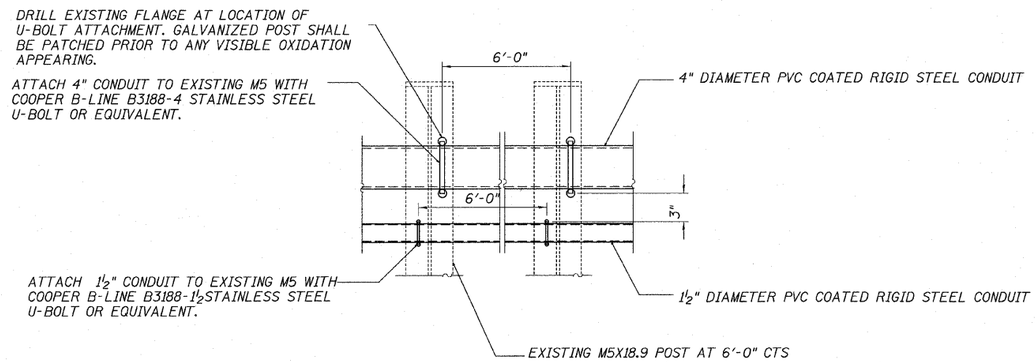


CONDUIT ATTACHMENT SECTION 1
SCALE: NTS

NOTE:
1. CONDUIT ATTACHMENT TO EXISTING STRUCTURE INCLUDING HARDWARE, INSTALLATION AND GALVANIZING REPAIR SHALL BE INCIDENTAL TO CONDUIT ATTACHED TO STRUCTURE.4" DIA., PVC COATED GALVANIZED STEEL AND TO CONDUIT ATTACHED TO STRUCTURE 1½" DIA., PVC COATED GALVANIZED STEEL

NO SEPARATE PAYMENT WILL BE MADE FOR BOLTS, NUTS, WASHERS AND THE COST OF SUCH ITEMS SHALL BE INCLUDED IN THE UNIT PRICES OF ITEMS ON WHICH THEY ARE USED.

2. GALVANIZING REPAIR:
REPAIR DAMAGE TO GALVANIZED COATING USING ASTM A 780/A 780M ZINC RICH PAINT FOR GALVANIZING DAMAGED BY HANDLING, CUTTING OR BOLTING. DO NOT HEAT SURFACES TO WHICH REPAIR PAINT HAS BEEN APPLIED.



CONDUIT ATTACHMENT ELEVATION 2
SCALE: NTS

NOTES:
MAXIMUM SPACING BETWEEN U-BOLTS SHALL NOT EXCEED 10 FEET FOR 4" DIA PVC COATED RIGID STEEL CONDUIT AND NOT TO EXCEED 7 FEET FOR 1½" DIA PVC COATED RIGID STEEL CONDUIT.

STAGGER U-BOLT PLACEMENT AS SHOWN ON ELEVATION ABOVE.

FILE NAME = P:\P-07-1600-12\Client\TSC Plans\Des Plaines River Bridge Conduit Attachment.dgn	USER NAME = rdahhan	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 4/20/2010	DATE -	REVISED -

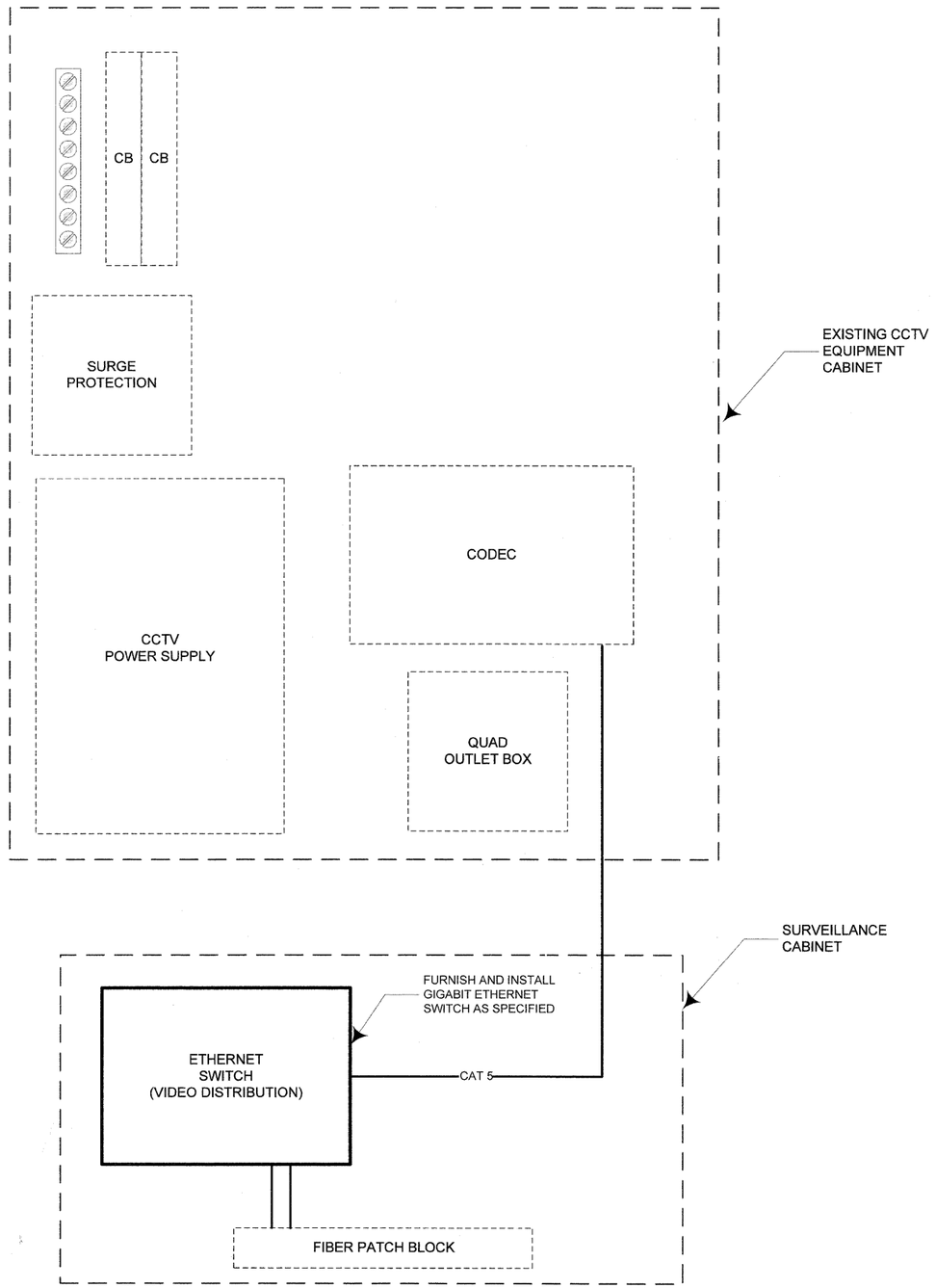
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION – I-55 (LORENZO ROAD TO I-80)
DES PLAINES RIVER BRIDGE CONDUIT ATTACHMENT

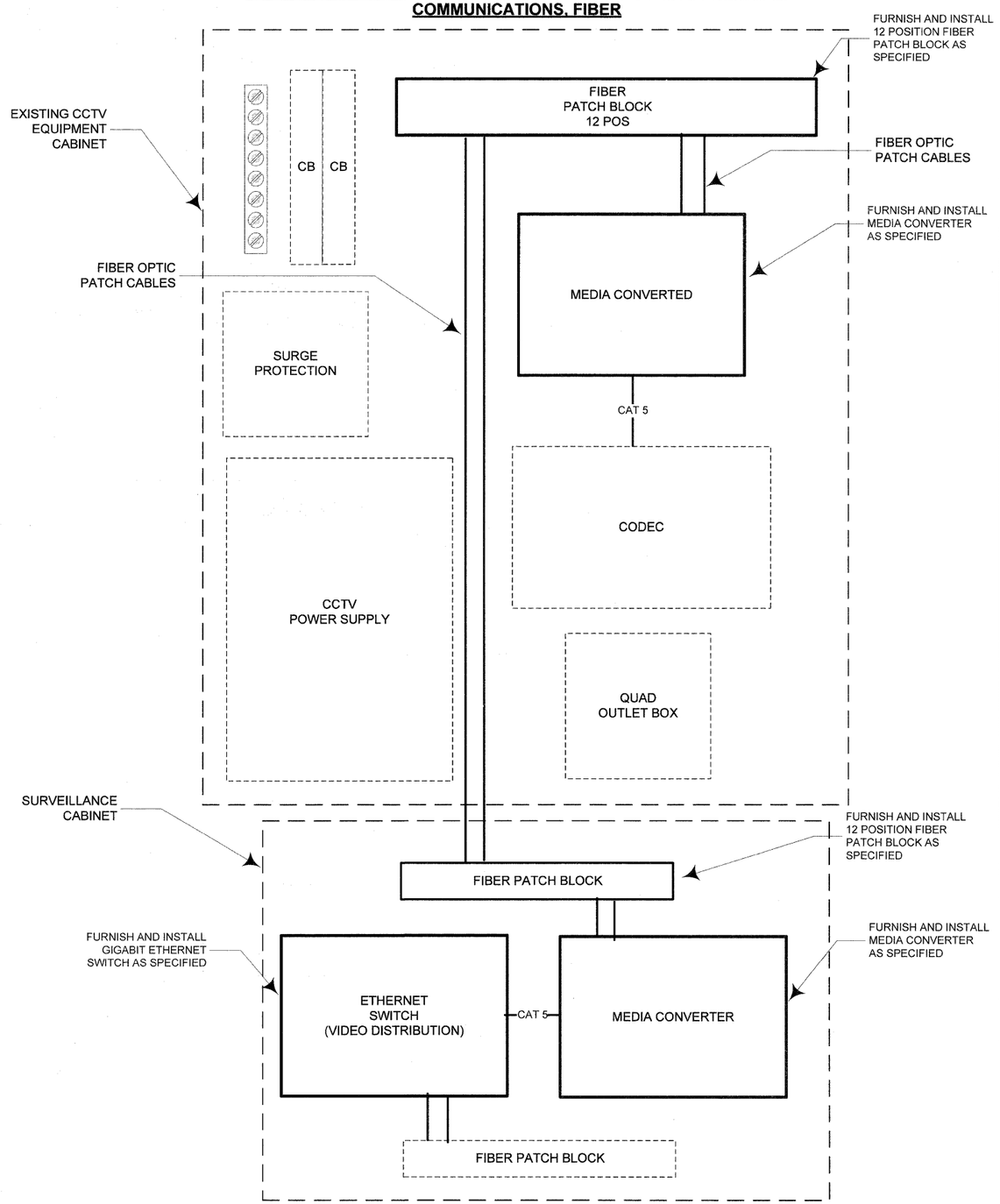
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	51
		CONTRACT NO. 60J24		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MODIFICATION OF EXISTING CCTV INSTALLATION FOR FIBER OPTIC COMMUNICATIONS, ETHERNET



MODIFICATION OF EXISTING CCTV INSTALLATION FOR FIBER OPTIC COMMUNICATIONS, FIBER



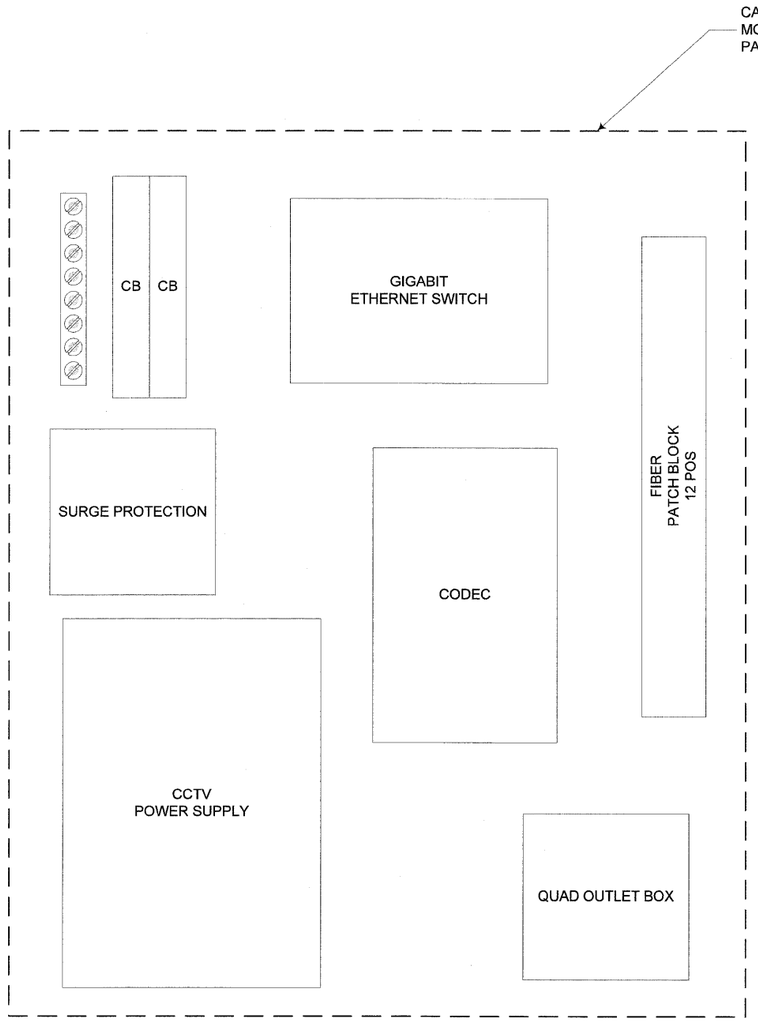
FILE NAME	USER NAME	DESIGNED	REVISED
		DRAWN	REVISED
	PLOT SCALE	CHECKED	REVISED
	PLOT DATE	DATE	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

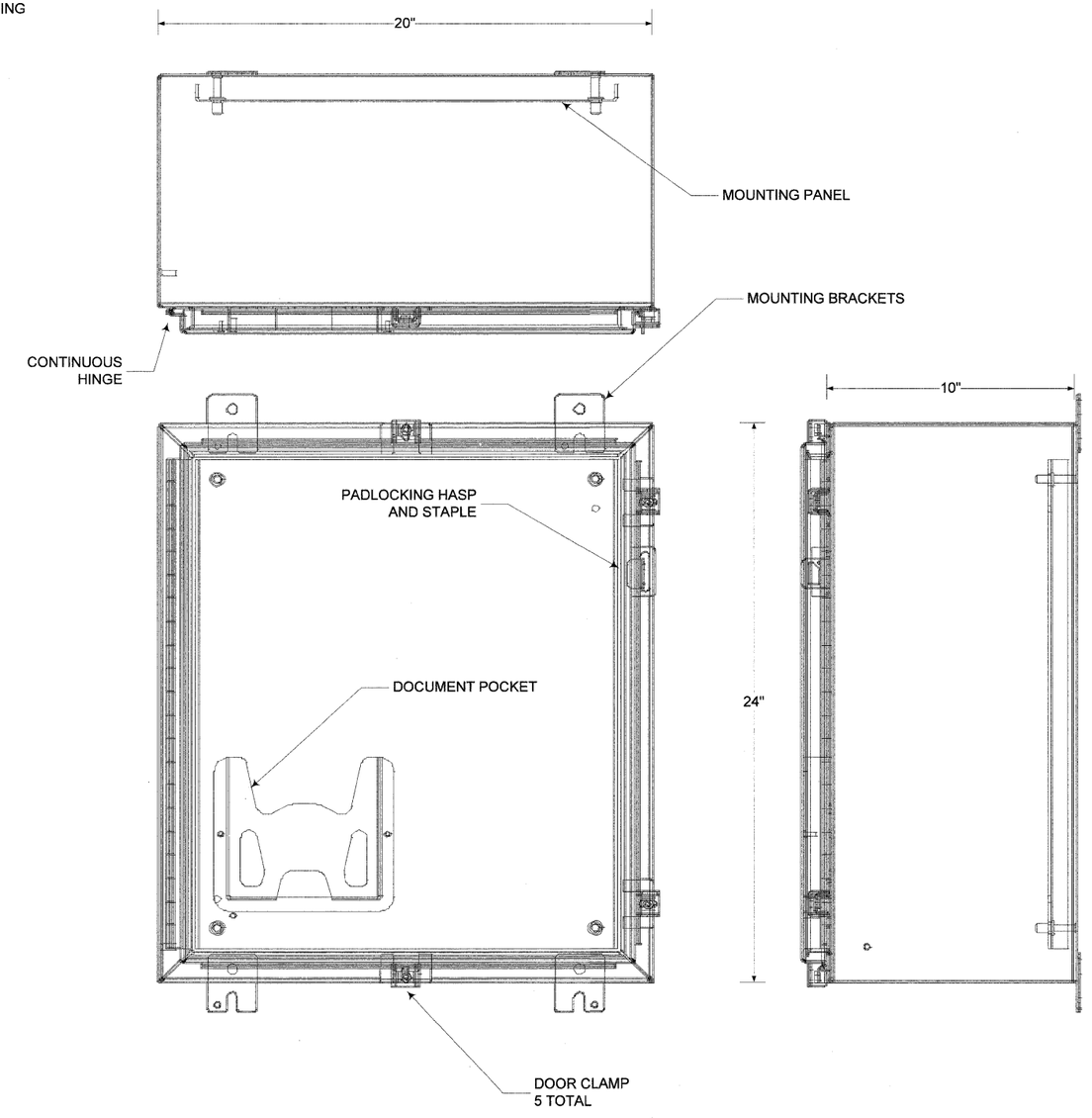
CCTV CAMERA EXPANSION – FAI 55 (LORENZO RD. TO I-80)
MODIFICATION OF EXIST. CCTV INST. FOR FIBER OPTIC COMMUNICATIONS

SCALE: NONE | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	52
		CONTRACT NO.	60J24	
		ILLINOIS	FED. AID PROJECT	



SUGGESTED EQUIPMENT LAYOUT



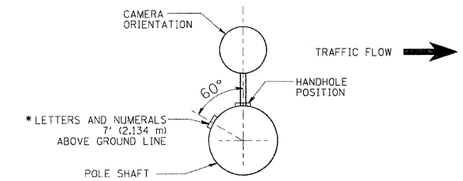
FILE NAME	USER NAME	DESIGNED	RT	REVISED
		DRAWN	RT	REVISED
	PLOT SCALE	CHECKED	MEA	REVISED
	PLOT DATE	DATE	4/22/2009	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

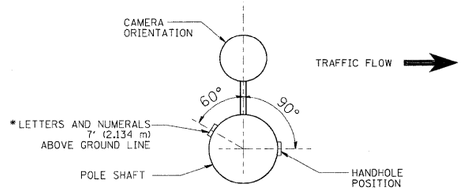
CCTV CAMERA EXPANSION – FAI 55 (LORENZO RD. TO I-80)
CCTV CAMERA EQUIPMENT, FIBER OPTIC DISTRIBUTION

SCALE: NONE | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

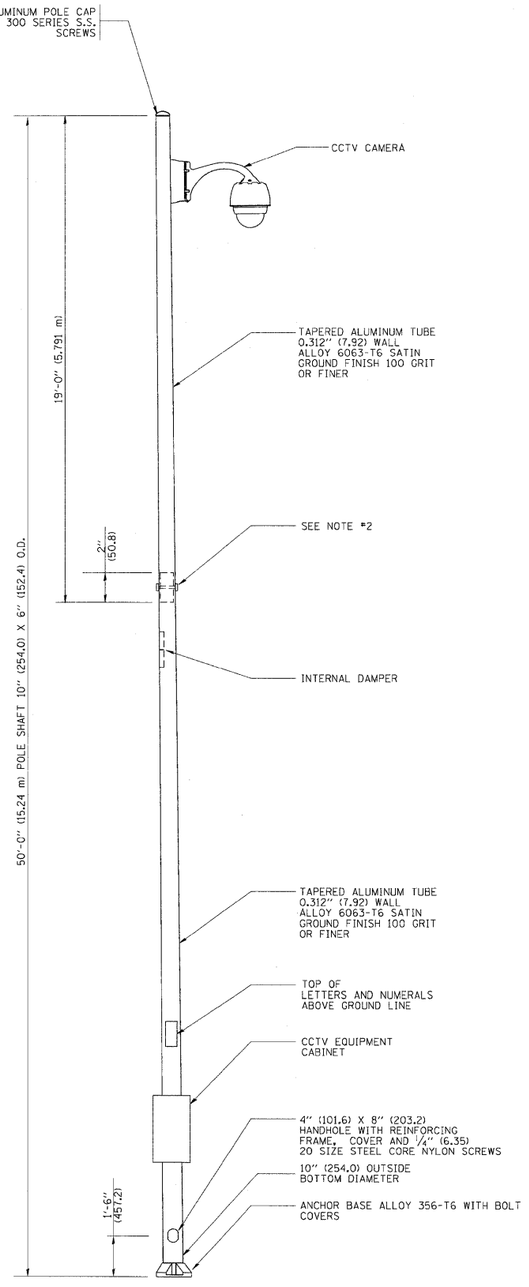
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2009-112 I	WILL	56	53
		CONTRACT NO.	60J24	
	ILLINOIS FED. AID PROJECT			



POSITION OF HANDHOLE AND CAMERA NUMBER FOR POLE MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

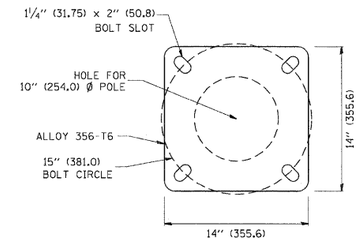


POSITION OF HANDHOLE AND CAMERA NUMBER



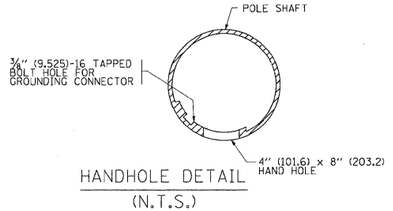
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
3. THE POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. POLES WILL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
6. POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.



POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



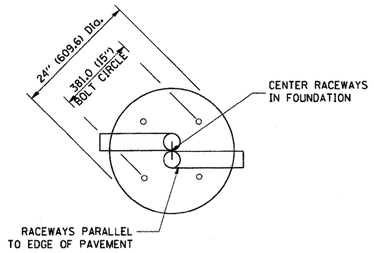
HANDHOLE DETAIL

(N.T.S.)

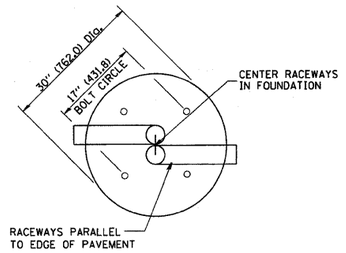
FILE NAME = c:\pw_work\PWIDOT\LEYSA\d0120315\be1000.dgn	USER NAME = leysa	DESIGNED -	REVISED - R. TOMSONS 09-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV CAMERA STRUCTURE 50' (15.24 m) MOUNTING HEIGHT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. TOMSONS 09-03-03						56	54
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -				BE-1000		CONTRACT NO. 60724	
	PLOT DATE = 4/12/2010	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

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

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND Ø = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND Ø = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND Ø = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

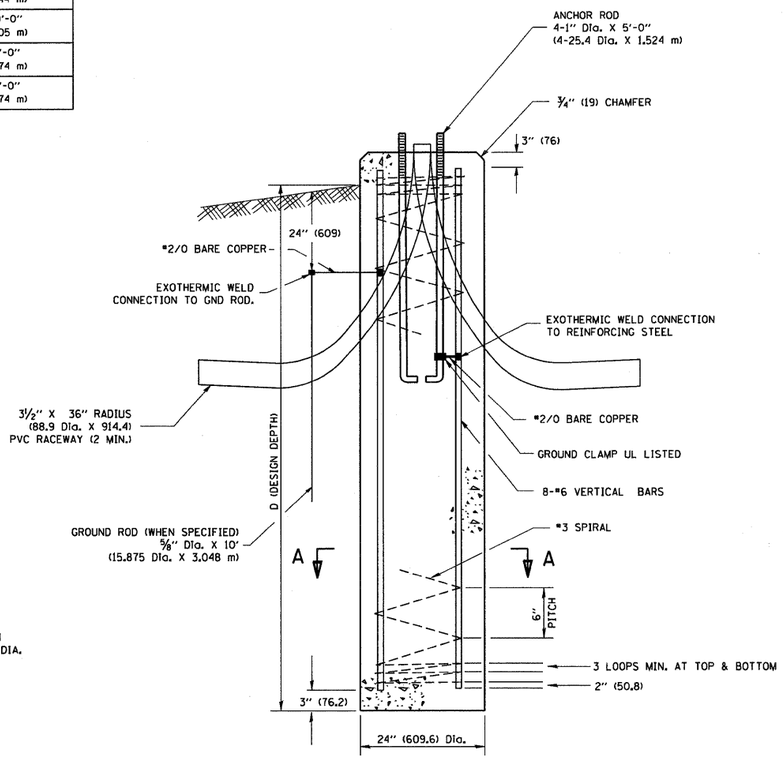


TOP VIEW

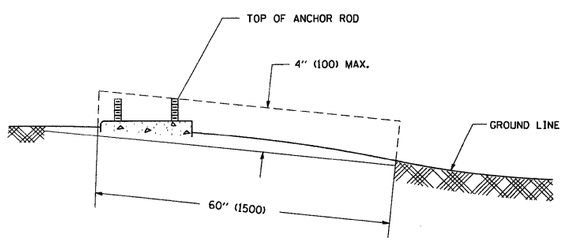


TOP VIEW

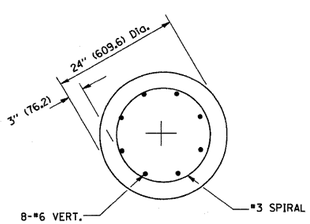
ANCHOR ROD DETAIL



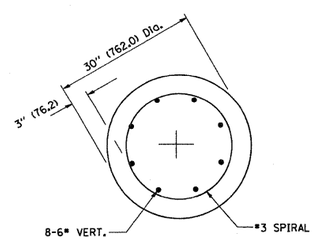
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. 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. (1.5 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.
5. 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 3/4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. 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 APPROVAL OF THE ENGINEER.
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 METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
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 2 3/4" (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.

FILE NAME = W:\diststd\22x34\be301.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 04-22-02
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

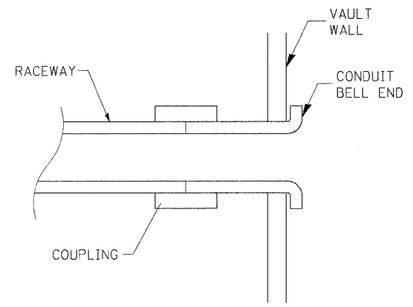
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

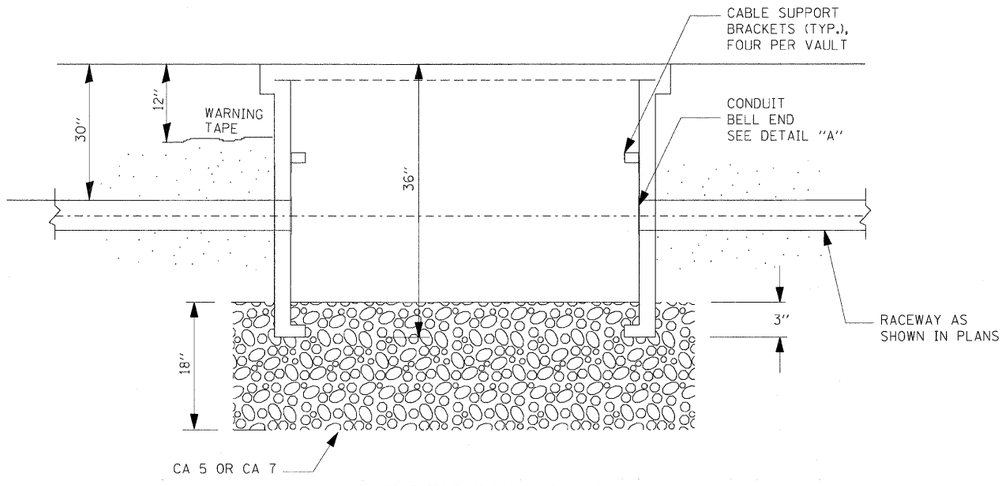
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	55
	BE-301		CONTRACT NO. 60124	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

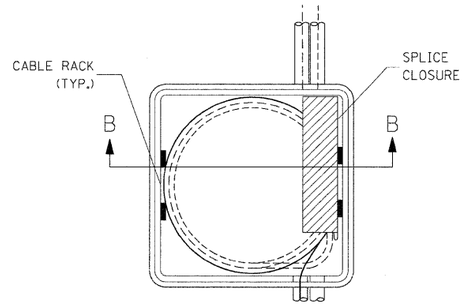
COMMUNICATIONS VAULT LOAD RATINGS			
COMPONENT	ANSI TIER	LOADING	
		DESIGN	TEST
BOX	22	22,500 lbs.	37,750 lbs.
COVER	22	22,500 lbs.	37,750 lbs.



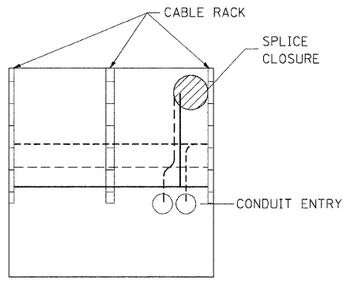
DETAIL A



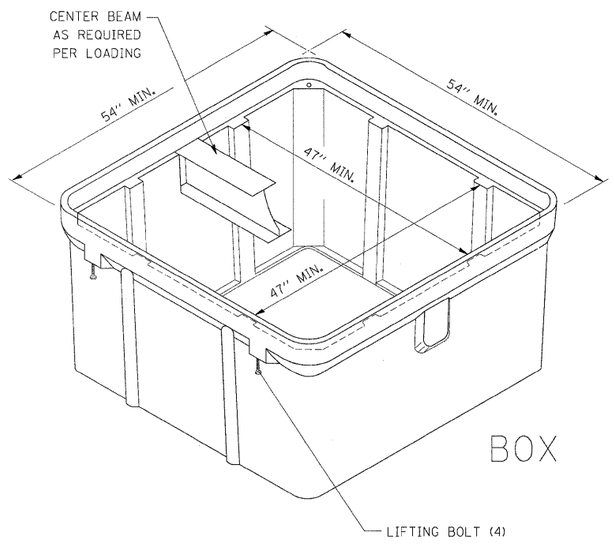
SECTION A-A



TOP VIEW

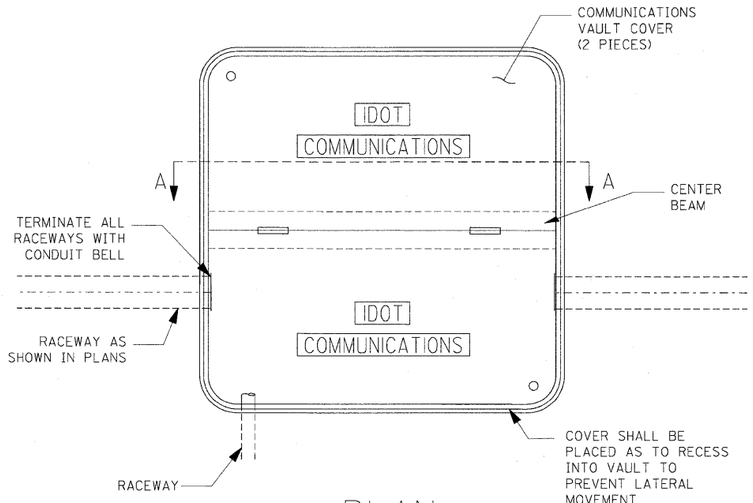


SECTION B-B



BOX

ISOMETRIC



PLAN

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT. IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
4. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

FILE NAME = c:\pw_work\pwidot\leyse\d0108315\be705.dgn	USER NAME = leyse	DESIGNED - R. Tomsons	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 4/5/2010	DATE - 03-22-10	REVISED -

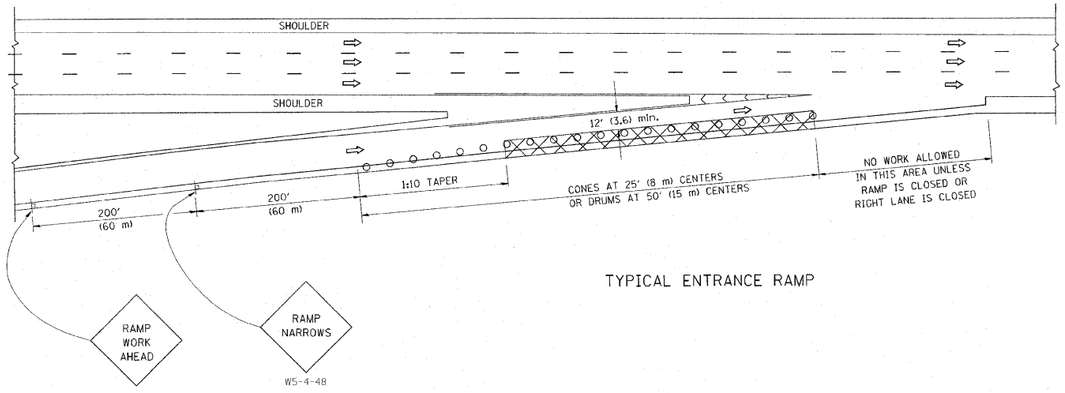
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS VAULT, COMPOSITE CONCRETE

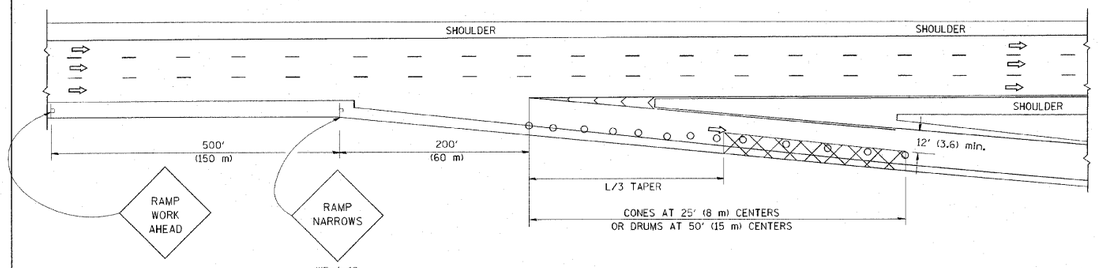
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	56
	BE-705		CONTRACT NO. 60J24	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

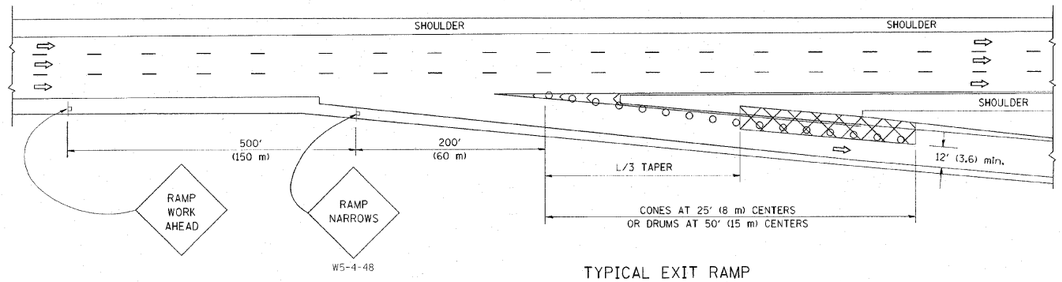
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

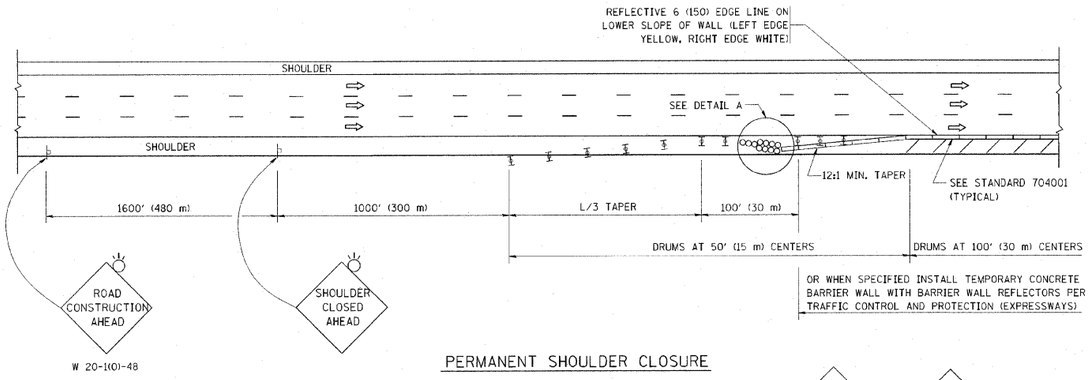
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

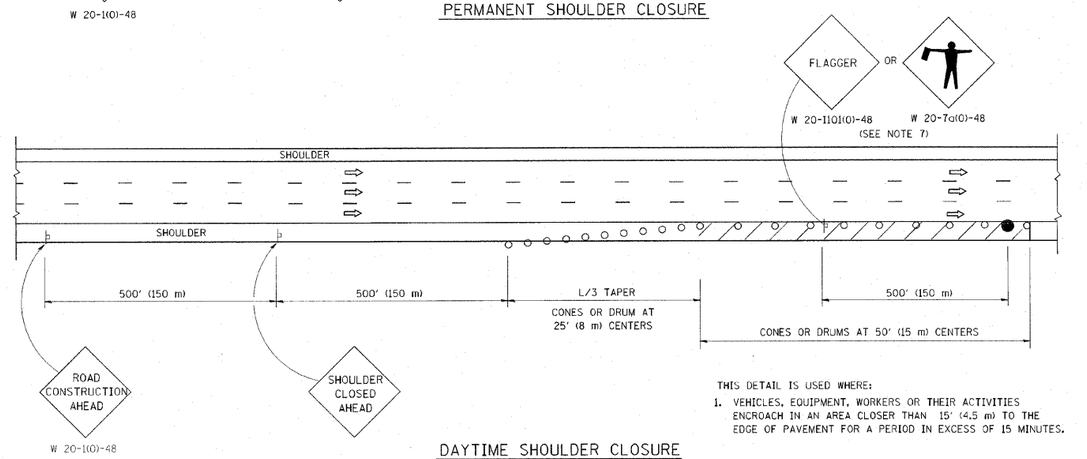
W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



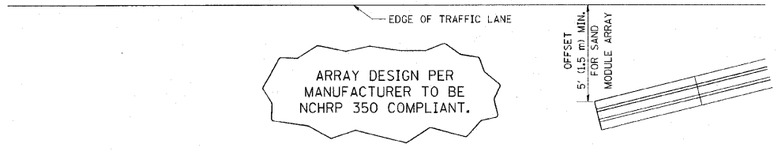
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENTUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

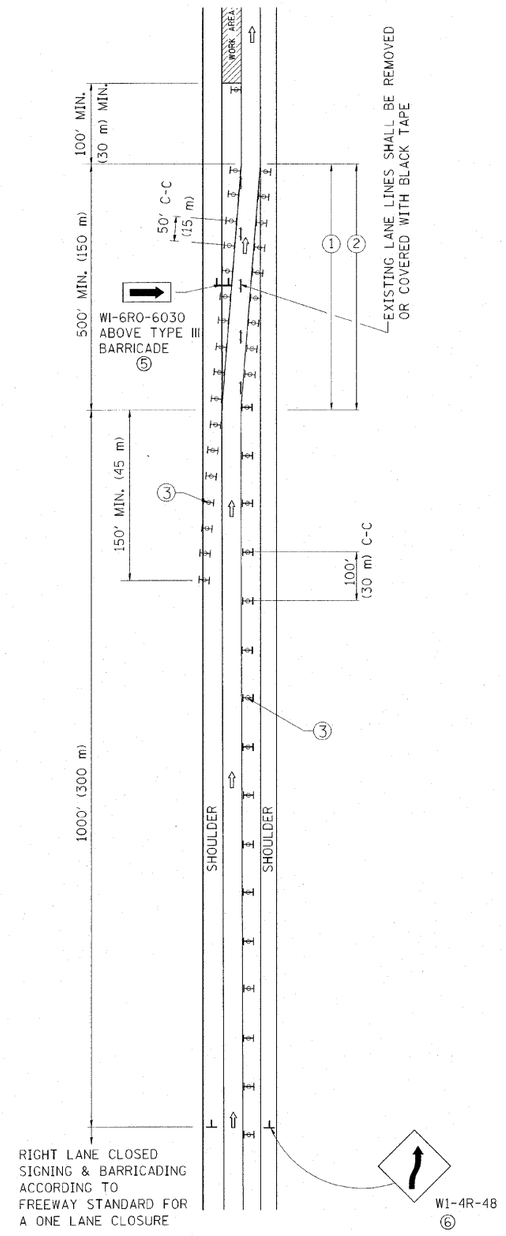
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\tc17.dgn	USER NAME = leysa	DESIGNED -	REVISED - 04-03	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07		
	PLOT DATE = 1/26/2010	DATE - 11-96	REVISED - S.P.B. 12-09		

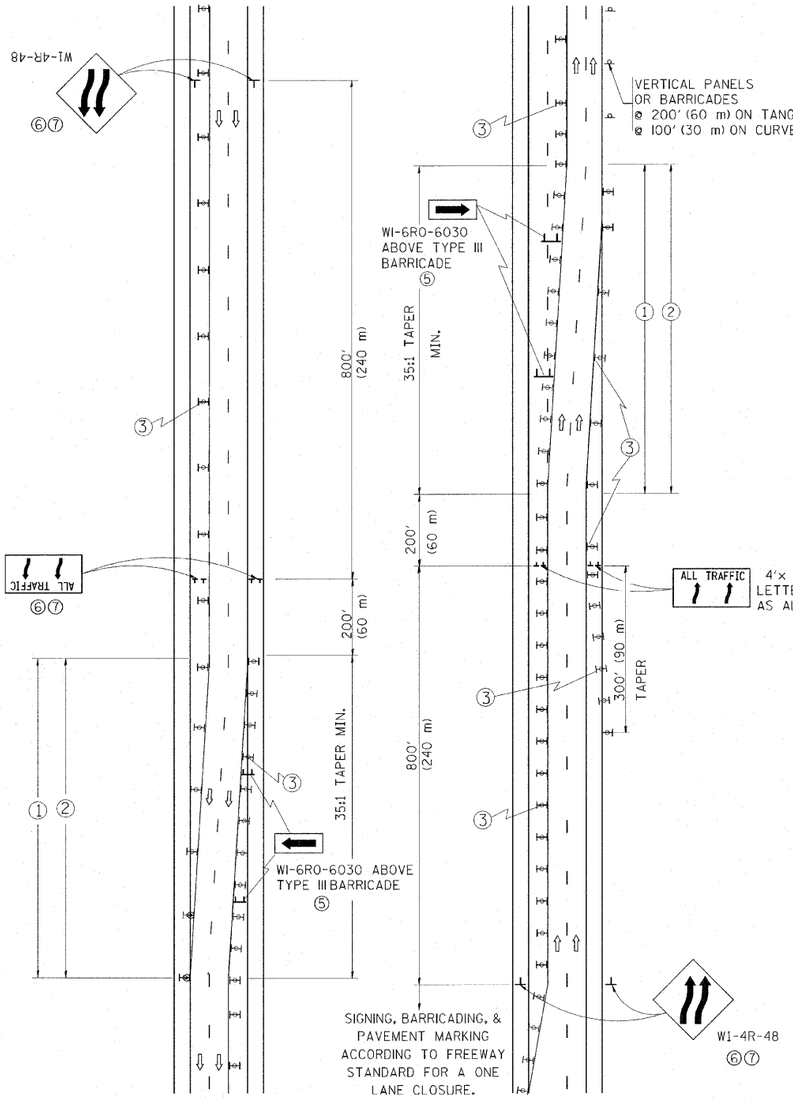
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	56A
	TC-17	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

GENERAL NOTES

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

DIRECTION OF TRAFFIC

WORK AREA

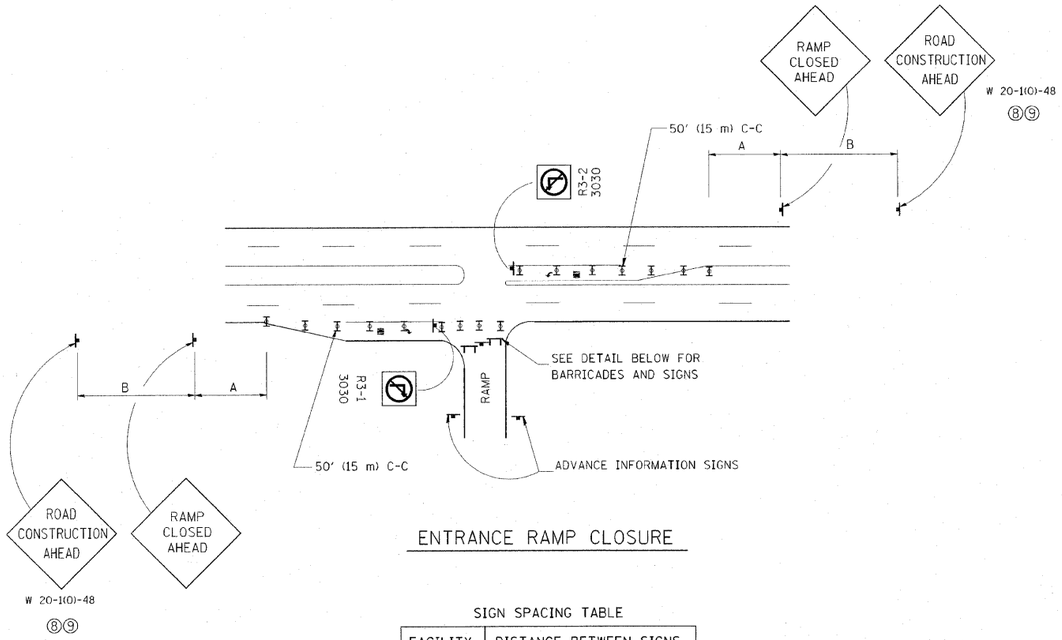
SIGN ON PORTABLE OR PERMANENT SUPPORT

TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

W24-1-48 ⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\tc09.dgn	USER NAME = leyse	DESIGNED - DWS	REVISED - JAF 01-03	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - JAF 02-06						56	568
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - SPB 01-07				TC-09	CONTRACT NO.		
	PLOT DATE = 1/26/2010	DATE - 02-87	REVISED - SPB 12-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

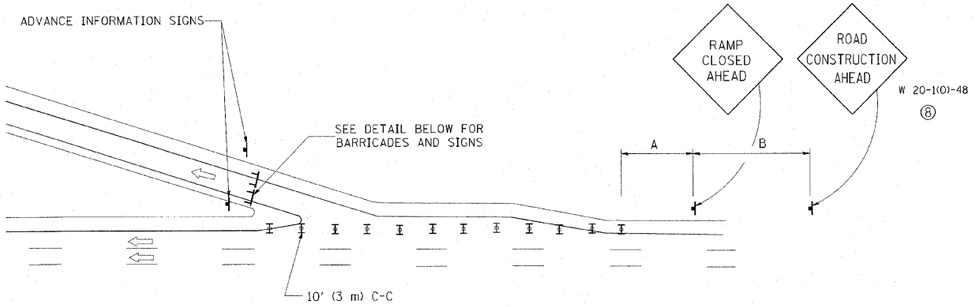


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS A	DISTANCE BETWEEN SIGNS B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

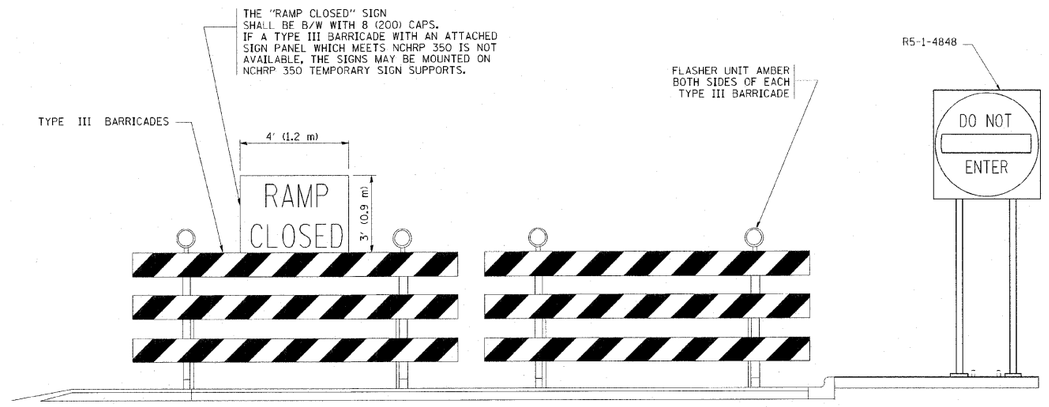


EXIT RAMP CLOSURE

SYMBOLS

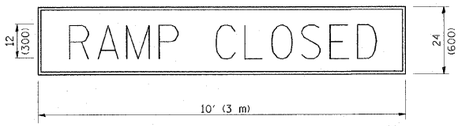
TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT

TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

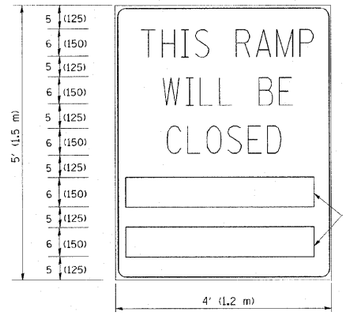


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

½ (12) BORDER

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR 24 HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR 24 HOURS IN LENGTH.
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

FILE NAME = W:\diststd\22x34\tc08.dgn	USER NAME = leysa	DESIGNED - DWS	REVISED - DWS/JAF 12-02
		DRAWN -	REVISED - JAF 02-06
	PLOT SCALE = 50.200 '/ IN.	CHECKED -	REVISED - SPB 01-07
	PLOT DATE = 1/26/2010	DATE - 02-83	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIST RAMP CLOSURE DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			56	56C
	TC-08	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		