

76966

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	25	1
FED ROAD DIST NO ILLINOIS FED AID PROJECT****				
* VARIOUS				
** DIST 8 ITS 2006-1				
*** MADISON				
**** D-98-012-02				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI 55/70 (I-55/70)
SECTION DIST 8 ITS 2006-1
PROJECT

**MADISON COUNTY
ITS 1A-PERMANENT COMMUNICATION DEVICES ON
I-55/70 FROM IL 111 TO TMC
C-98-135-05**

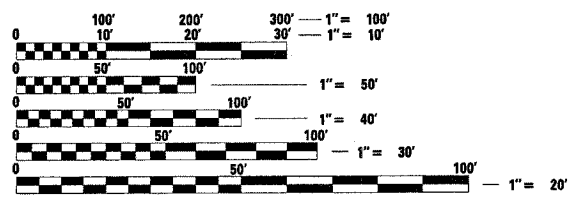
INDEX OF SHEETS

1. TITLE SHEET
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5. GENERAL NOTES, LEGEND AND SPECIFICATIONS
- 6.-8. POLE MOUNTED CCTV DETAIL WITH CAMERA LOWERING DEVICE
9. CONDUIT-BASED VEHICLE DETECTION SYSTEM DETAIL
- 10.-11. LOCATION 557005.9A.27D
- 12.-13. LOCATION 557007.0A.28D
- 14.-15. LOCATION 557008.0A.29D
16. LOCATION 557009.1A.30D
17. LOCATION 025524.7A.23C
18. LOCATION 557010.5A.31D
- 19.-25. COMMUNICATION DESIGNS

STANDARDS

- 000001-04
- 601001
- 701001-01
- 701101-01
- 701106-01
- 701400-02
- 701406-04
- 702001-05
- 805001
- 813001-01
- 814001
- 814006

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS

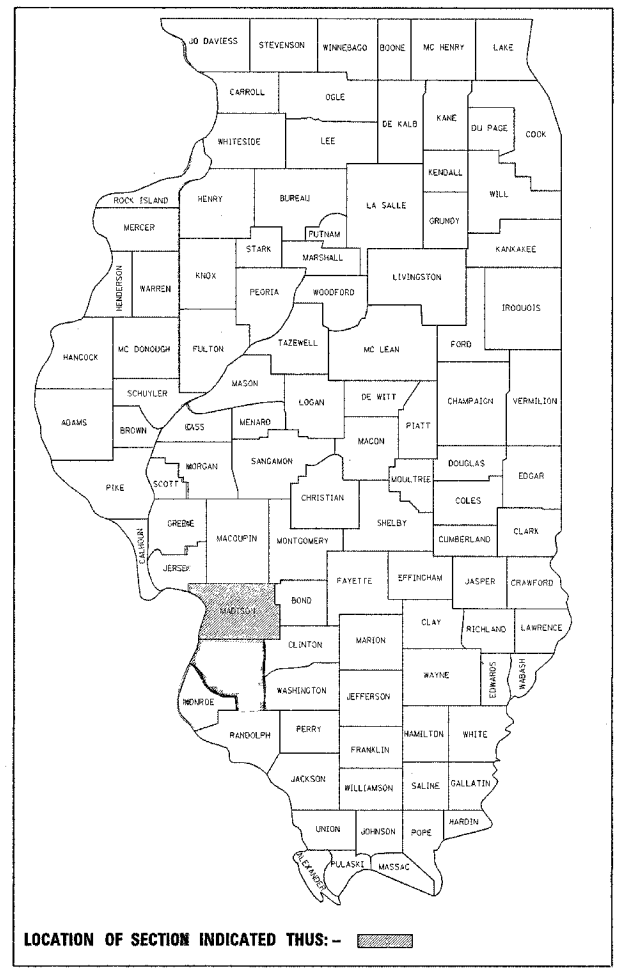


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

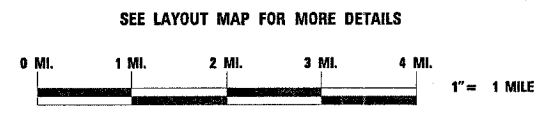
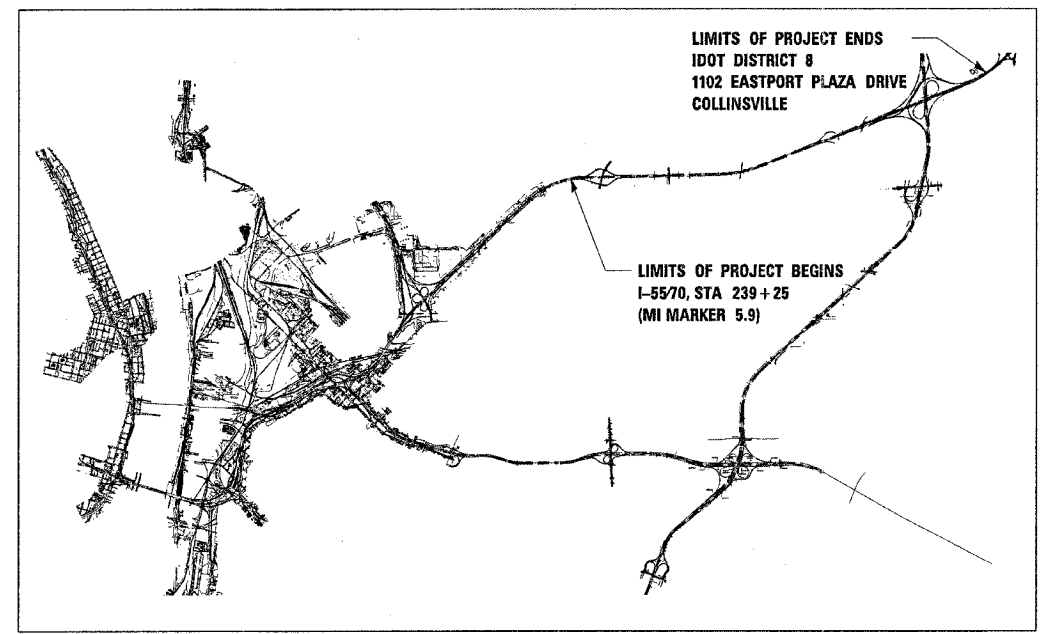
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 76966

LIAISON ENGINEER: BRIAN A. SNEED (618) 346-3118
 PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179
 SQUAD LEADER: MICHAEL PRESTON (618) 346-3143



NOTE: ST. CLAIR COUNTY IS NO LONGER INCLUDED IN THIS CONTRACT.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 26 2005

May C. Lomel
DEPUTY DIRECTOR OF HIGHWAYS-REGIONAL ENGINEER

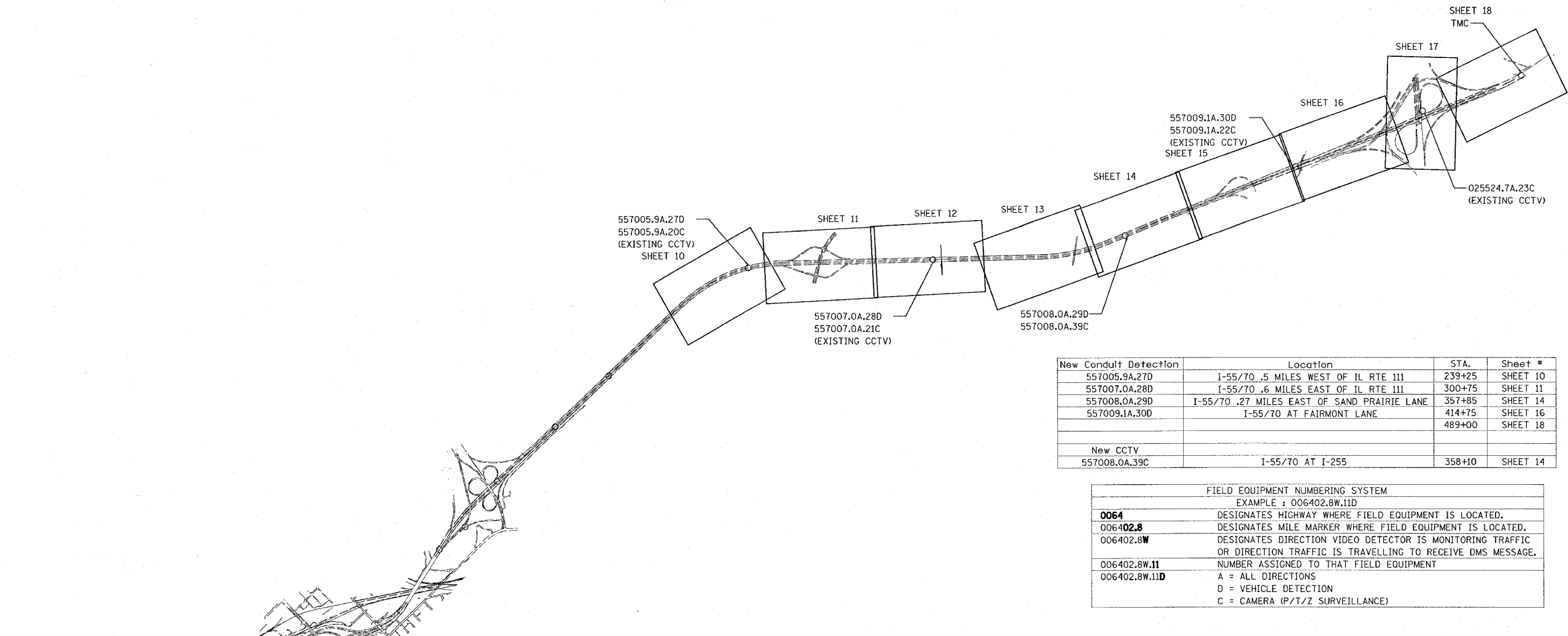
July 1, 2005
Michelle H. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

July 1, 2005
Victor Modesto
CHIEF ENGINEER, DIVISION OF HIGHWAYS

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	25	2
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ****				

* FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR



New Conduit Detection	Location	STA.	Sheet #
557005.9A.27D	I-55/70 .5 MILES WEST OF IL RTE 111	239+25	SHEET 10
557007.0A.28D	I-55/70 .6 MILES EAST OF IL RTE 111	300+75	SHEET 11
557008.0A.29D	I-55/70 .27 MILES EAST OF SAND PRAIRIE LANE	357+85	SHEET 14
557009.1A.30D	I-55/70 AT FAIRMONT LANE	414+75	SHEET 16
		489+00	SHEET 18
New CCTV			
557008.0A.39C	I-55/70 AT I-255	358+10	SHEET 14

FIELD EQUIPMENT NUMBERING SYSTEM	
EXAMPLE : 006402.8W.11D	
0064	DESIGNATES HIGHWAY WHERE FIELD EQUIPMENT IS LOCATED.
006402.8	DESIGNATES MILE MARKER WHERE FIELD EQUIPMENT IS LOCATED.
006402.8W	DESIGNATES DIRECTION VIDEO DETECTOR IS MONITORING TRAFFIC OR DIRECTION TRAFFIC IS TRAVELLING TO RECEIVE DMS MESSAGE.
006402.8W.11	NUMBER ASSIGNED TO THAT FIELD EQUIPMENT
006402.8W.11D	A = ALL DIRECTIONS D = VEHICLE DETECTION C = CAMERA (P/T/Z SURVEILLANCE)

TRAFFIC VOLUME SCHEDULE

LOCATION	YEAR	ADT (ESTIMATED)	SU%	MU%
LOCATION 557005.9A.27D	2006	58700	2.7	13.6
LOCATION 557007.0A.28D	2006	55100	2.6	14.1
LOCATION 557008.0A.29D	2006	55100	2.6	14.1
LOCATION 557009.1A.30D	2006	53300	3.1	14.0
LOCATION 025524.7A.23C	2006	53300	3.1	14.0

TRAFFIC CONTROL AND PROTECTION SCHEDULE

TRAFFIC CONTROL AND PROTECTION STANDARDS	LOCATION 557005.9A.27D	LOCATION 557007.0A.28D	LOCATION 557008.0A.29D	LOCATION 557009.1A.30D	LOCATION 025524.7A.23C	TMC
701001	1	1	1	1	1	1
701101-01	1	1	1	1	1	1
701106-01	1	1	1	1	1	1
701400-02	1	1	1	1	1	1
701406-04	1	1	1	1	1	1
702001-05	1	1	1	1	1	1

SEGMENTS	Sheet # OF 24	FROM	Sheet # OF 24	TO
LOCATION 557005.9A.27D	10	I-55/70 .5 MILES WEST OF IL RTE 111	112	I-55/70 .6 MILES EAST OF IL RTE 111
LOCATION 557007.0A.28D	12	I-55/70 .6 MILES EAST OF IL RTE 111	14	I-55/70 .27 MILES EAST OF SAND PRAIRIE LANE
LOCATION 557008.0A.29D	14	I-55/70 .27 MILES EAST OF SAND PRAIRIE LANE	16	I-55/70 AT FAIRMONT LANE
LOCATION 557009.1A.30D	16	I-55/70 AT FAIRMONT LANE	15	I-55/70 AT I-255
LOCATION 025524.7A.23C	17	I-55/70 AT I-255	16	TMC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAN SHEET LAYOUT AND VOLUME SCHEDULE
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: DATE 05/02/05 DRAWN BY MAM CHECKED BY CAF

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 215 EAST WASHINGTON STREET
 SPRINGFIELD, ILLINOIS 62762-4000
 TEL: 217/243-1000 FAX: 217/243-1001
 WWW.IDOT.IL.GOV

SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/10	**	***	23	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION CODE SFTY Y032-1F					TMC
CODE NO	ITEM	UNIT		557005.9A.27D	557007.0A.28D	557008.0A.29D	557009.1A.30D	Q25524.7A.39C	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1	1	1	1	1	1
67100100	MOBILIZATION	L SUM	1	0.17	0.17	0.17	0.17	0.17	0.15
70100305	TRAFFIC CONTROL AND PROTECTION, STANDARD 701400	L SUM	1	0.17	0.17	0.17	0.17	0.17	0.15
70101500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406 (SPECIAL)	L SUM	1	0.17	0.17	0.17	0.17	0.17	0.15
80300100	LOCATING UNDERGROUND CABLE	FOOT	14126	5789	20	3140	2000	3177	
80500100	SERVICE INSTALLATION, TYPE A	EACH	1			1			
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	260	65	55	55	85		
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	1875	25	25	1800	25		
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	650	150	150	150	200		
81400400	CONCRETE HANDHOLE	EACH	57	11	10	15	16	2	3
81400600	CONCRETE DOUBLE HANDHOLE	EACH	17	4	4	4	4		1
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	27772	6210	5380	7165	4115	3252	1650
87100105	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 4F	FOOT	92			92			
87301125	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	102			102			
87301505	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 1 PAIR	FOOT	102			102			
87800210	CONCRETE FOUNDATION, TYPE D (SPECIAL)	FOOT	3.5			3.5			
87900100	DRILL EXISTING FOUNDATION	EACH	8	2	2		2	2	
87900200	DRILL EXISTING HANDHOLE	EACH	23	12				10	1
X0305420	LIGHT POLE, STEEL, 45 FT. WITH CAMERA LOWERING SYSTEM	EACH	1			1			
X03102020	CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 80	FOOT	1365	460		115	510	60	220
X03100065	CONDUIT IN TRENCH, 4" DIA., PVC TYPE C	FOOT	25637	6120	5300	5310	4005	3252	1650
X03110128	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC TYPE C	FOOT	710		410	300			
03300305	CONTROLLER CABINET TYPE III, SPECIAL	EACH	1			1			
X0325066	2955 LAYER 2 SWITCH	EACH	4	1	1		1	1	
X0325067	3550-12G LAYER 3 SWITCH	EACH	2			1			1
X0325068	5483 GBIC SWITCH	EACH	2			2			
X0325069	5486 GBIC SWITCH	EACH	8			3			5
X03730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED SHIELDED	FOOT	8484	2058	2028	2028	2370		
X03710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	FOOT	27748	6512	5822	5891	4562	3420	1541
X0325070	CONDUIT BASED VEHICLE DETECTION, THREE-FOUR LANE CONFIGURATION	EACH	1				1		
X0325071	CONDUIT BASED VEHICLE DETECTION, THREE LANE CONFIGURATION	EACH	3	1	1	1			
X0325072	MODIFY EXISTING CONTROLLER CABINET TYPE A	EACH	3	1	1		1		

PLOT DATE = 5/28/2005
 FILE NAME = c:\projects\nd01200\electrical\table\01202a.dgn
 PLOT SCALE = 99.9998 / 1
 REFERENCE = REF#

SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/10	**	***	25	4
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION CODE SFTY Y032-1F					TMC
CODE NO	ITEM	UNIT		LOCATION 557005.9A.27D	LOCATION 557007.0A.28D	LOCATION 557008.0A.29D	LOCATION 557009.1A.30D	LOCATION Q25524.7A.39C	
X0325073	MODIFY EXISTING CONTROLLER CABINET TYPE B	EACH	1					1	
X0325074	TRAFFIC DATA COLLECTION SYSTEM	L SUM	1						1
XX005229	VIDEO TRANSMISSION SYSTEM	L SUM	1						1
X0325075	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., FIBERGLASS BULLET RESISTANT	FOOT	60		30	30			
X8730050	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 3/C COPPER	FOOT	1807			1807			
X0325077	FIBER OPTIC UTILITY MARKER	EACH	110	22	20	22	16	12	18
X0325076	WIDE AREA NETWORK	L SUM	1						1
X0322227	CLOSED CIRCUIT TELEVISION CAMERA SYSTEM	EACH	1			1			
X0322343	LOCATE EXISTING DRAINAGE STRUCTURE	EACH	20	4	4	4	3	5	
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	25637	6120	5300	5310	4005	3252	1650
X0324592	2070 CONTROLLER	EACH	4	1	1	1	1		
X8360100	LIGHT POLE FOUNDATION, 28" DIAMETER	FOOT	7.5			7.5			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1				
X0323150	JUNCTION BOX, ALUMINUM, ATTACHED TO STRUCTURE, 18" x 18" x 10"	EACH	4		2	2			

PLOT DATE = 5/25/2005
 FILE NAME = c:\projects\16966\16966\electrical\16966.dgn
 PLOT SCALE = 1" = 10' / 1" / 1"
 REFERENCE = #REF*

Rev.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	25	5
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ****				

* FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR

LEGEND

ALUM	ALUMINUM
EP	EDGE OF PAVEMENT
TW SH	TWISTED SHIELDED
PWR CBL	POWER CABLE
F.O.	FIBER OPTIC
J.B.	JUNCTION BOX
GSC	GALVANIZED STEEL CONDUIT
PVCC	POLYVINYL CHLORIDE CONDUIT
FGC	FIBER GLASS CONDUIT
□	EXISTING HANDHOLE
▣	EXISTING DOUBLE HANDHOLE
⊠	EXISTING CONTROLLER
⊞	EXISTING SERVICE INSTALLATION
-----	EXISTING GALVANIZED STEEL CONDUIT
⊞	EXISTING JUNCTION BOX
⊞	EXISTING SIGN TRUSS
○	EXISTING HIGHWAY LIGHTING UNIT
○	EXISTING UNDERGROUND LIGHTING CABLES
■	PROPOSED HANDHOLE
▣	PROPOSED DOUBLE HANDHOLE
⊠	PROPOSED CONTROLLER
-----	PROPOSED CONDUIT: "T" TRENCH, "P" PUSH "ATS" ATTACHED TO STRUCTURE, SIZE SPECIFIED
⊞	PROPOSED SERVICE INSTALLATION
⊞	PROPOSED CCTV CAMERA
⊞	PROPOSED JUNCTION BOX, SIZE SPECIFIED
●	PROPOSED WOOD POLE, SIZE SPECIFIED
●	PROPOSED DETECTION SYSTEM (MICROLOOPS)
●	PROPOSED LIGHT POLE, SIZE SPECIFIED

GENERAL NOTES

- CCTV ARE LOCATION SENSITIVE. PROPOSED EQUIPMENT LOCATIONS ARE APPROXIMATE TO ENSURE THE OPTIMUM FIELD OF VIEW. ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR, PER THE MANUFACTURER REPRESENTATIVES' RECOMMENDATIONS AND THE ENGINEER'S APPROVAL. MR. BRIAN SNEED OF BUREAU OF OPERATIONS SHALL BE CONTACTED FOR ACTUAL CAMERA LOCATION VERIFICATION.
- ALL MATERIALS SUPPLIED SHALL CONFORM TO SECTION 106 OF THE STANDARD SPECIFICATIONS FOR CONTROL OF MATERIALS.
- THE CONTROLLER CABINETS AND JUNCTION BOXES SHALL BE UNPAINTED ALUMINUM SHEET METAL UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- UNDERGROUND CABLE MARKING TAPE SHALL BE INSTALLED WITH ALL TRENCH AND BACKFILL FOR ELECTRICAL WORK IN ACCORDANCE WITH ARTICLES 815.03 AND 1066.05 OF THE STANDARD SPECIFICATIONS.
- A 1/4" DIA. NYLON ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS. THE COST OF PULL ROPE SHALL BE INCLUDED IN THE PROPOSED ELECTRIC CABLE INSTALLATION AND OR FIBER OPTIC IN THAT CONDUIT.
- THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAMS, DECK, OR SUBSTRUCTURE OF THE BRIDGE. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL GROUND RODS SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH ARTICLE 1087.01 EXCEPT THAT THEY SHALL BE 3/4" DIAMETER X 12'-0" LONG. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE VIA EXOTHERMIC WELD, COMPRESSION CLAMPS WILL NOT BE ALLOWED.
- COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATION FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- BENDING RADIUS OF FIBER OPTIC CABLE SHALL NOT EXCEED SIX (6) INCHES. A MINIMUM OF 20' SLACK CABLE SHALL BE INSTALLED AT EACH CONTROLLER CABINET PRIOR TO TERMINATION OF FIBER.
- NO OVERNIGHT LANE CLOSURES SHALL BE PERMITTED ON THIS PROJECT.
- ANY GROUND AREA THAT THE CONTRACTOR COMPACTS OR DISTURBS SHOULD BE SEEDED AT THE END OF EACH WEEK WITH CL.1 LAWN MIXTURE OR CL.2 ROADSIDE MIXTURE.
- ALL HANDHOLES SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (PER ARTICLE 1088.10 THE LEGEND ON THE COVER SHALL BE "ITS". SLOPE HANDHOLE TO MATCH FINAL GRADE ELEVATION.
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS CCTV CAMERA SYSTEMS AND VIDEO VEHICLE DETECTION SYSTEMS AND INSTALLATIONS. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96-HOURS ADVANCE NOTICE TO THE RESIDENT ENGINEER SO THAT THE UTILITY COMPANIES CAN BE NOTIFIED. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AMEREN IP (GAS AND ELECTRIC)
 - AMEREN UE (ELECTRIC)
 - AT AND T CORPORATION (COMMUNICATIONS)
 - CENTER POINT ENERGY (PIPELINE)
 - CITY OF COLLINSVILLE (WATER AND SANITARY SEWER)
 - ILLINOIS AMERICAN WATER COMPANY (WATER)
 - LIGHT CORE (COMMUNICATIONS)
 - MARATHON ASHLAND PIPELINE, LLC (PIPELINE)
 - MCLEOD USA TELECOMMUNICATIONS, INC. (COMMUNICATIONS)
 - MEDIACOM LLC CENTRAL (CABLE TV)
 - MOUND PUBLIC WATER AND SEWER DISTRICT (WATER)
 - SBC (COMMUNICATIONS)
 - SOUTHWESTERN ELECTRIC COOPERATIVE, INC. (ELECTRIC)

(MEMBER OF J.U.L.I.E. (800-892-0123) ARE INDICATED BY "M". NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)
- A 9-1-1 ADDRESS MUST BE OBTAINED FROM THE ST. CLAIR COUNTY 9-1-1 COORDINATOR PRIOR TO OBTAINING ELECTRIC/ TELEPHONE SERVICE AT THE PROJECT LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER/TECHNICIAN A MINIMUM OF SIX WEEKS IN ADVANCE OF THE ANTICIPATED DATE THAT ELECTRIC/TELEPHONE SERVICE WILL BE REQUIRED IN ORDER THAT THE NECESSARY ADDRESS CAN BE OBTAINED. IF THERE ARE ANY QUESTIONS REGARDING THE ABOVE, CONTACT THE 9-1-1 COORDINATOR AT 618-692-6200, EXT. 5911 FOR MADISON COUNTY.
- THE CONTRACTOR IS ASKED TO PAY SPECIAL ATTENTION TO SECTION 107. LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC OF THE STANDARD SPECIFICATIONS. IN PARTICULAR 107.01 LAWS TO BE OBSERVED AND 107.04 PERMITS AN LICENSES.
- ALL FIBER BACKBONE CONDUIT SHALL BE PLACED A MINIMUM OF 5' FROM EDGE OF PAVEMENT OR AS INDICATED ON THE PLAN SHEETS OR PER FIELD ENGINEER'S RECOMMENDATION.

SPECIFICATIONS

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. (AASHTO SPECIFICATIONS).

 CONSTRUCTION: CURRENT (AT TIME OF LETTING) ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS ("STANDARD SPECIFICATIONS").

 GALVANIZING: ALL STEEL GRATING, PLATES, SHAPES AND PIPE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111. PAINTING IS NOT PERMITTED.

 CONCRETE SURFACES: ALL CONCRETE SURFACES ABOVE AN ELEVATION OF 6" BELOW THE LOWEST FINAL GROUND LINE AT EACH FOUNDATION SHALL BE CLEANED AND COATED WITH BRIDGE SEAT SEALER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

 REINFORCEMENT BARS: REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

 FOUNDATIONS: THE CONTRACT UNIT PRICE FOR "CONCRETE FOUNDATIONS" OR "DRILLED SHAFT CONCRETE FOUNDATIONS" SHALL INCLUDE: ALL NECESSARY EXCAVATION OR DRILLING (EXCEPT IN ROCK); BACKFILLING WITH EXCAVATED MATERIAL; DISPOSAL OF SURPLUS MATERIAL; FORMWORK; AND FURNISHING AND PLACING CLASS SI CONCRETE, REINFORCEMENT BARS, CONDUIT, ANCHOR BOLTS, NUTS, WASHERS, AND GROUND RODS COMPLETE IN PLACE.

REVISIONS	
NAME	DATE

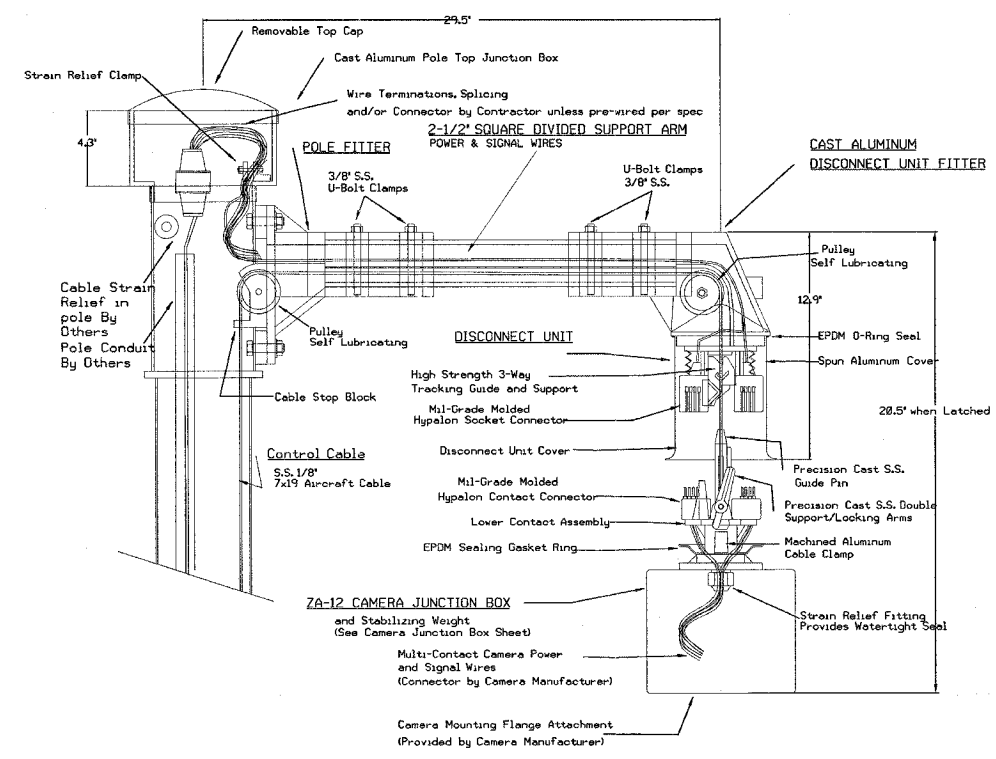
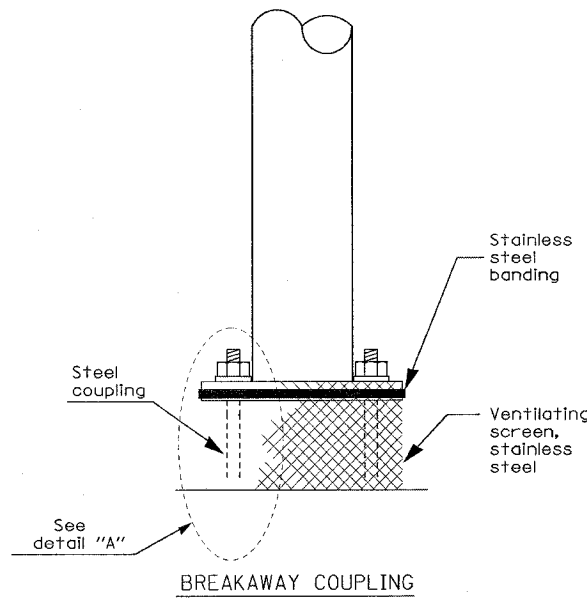
ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL NOTES, LEGEND, & SPECIFICATIONS
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

 SCALE: _____ DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 200 N. SECOND STREET
 SPRINGFIELD, ILLINOIS 62702-1000

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	25	6
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT ****		

• FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR

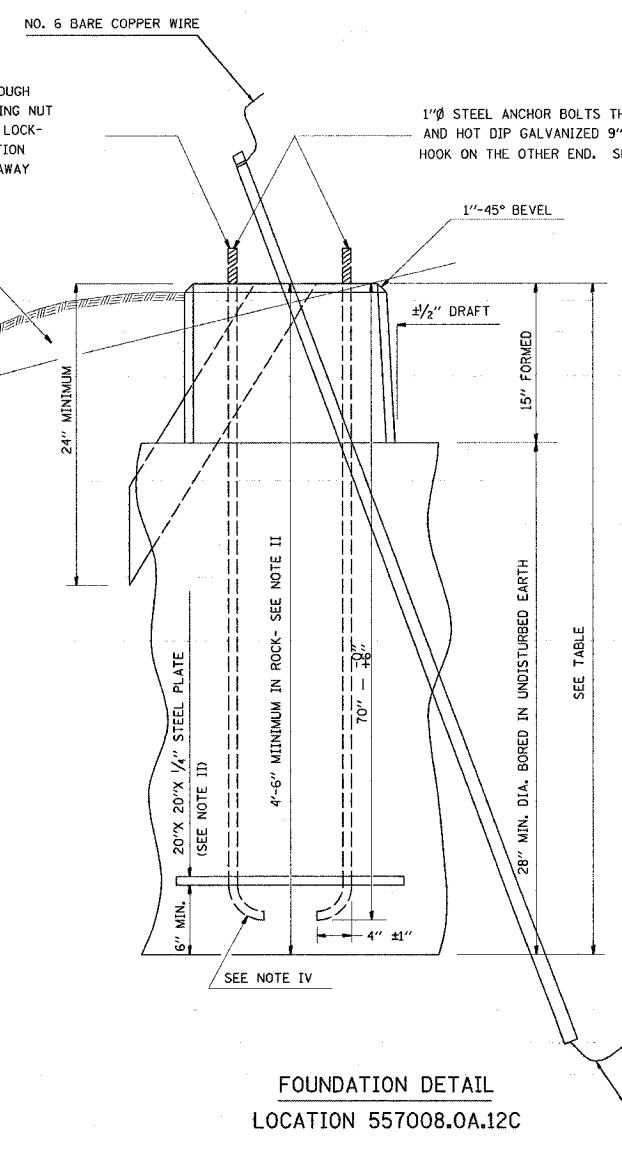


NOTE:
 USE DIRT REMOVED FROM FOUNDATION TO FILL AROUND FOUNDATION TOP. MAKE TOP OF DIRT LEVEL WITH TOP OF CONCRETE. ANY EXCESS DIRT WILL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

ANCHOR BOLT SHALL EXTEND THROUGH NUT 3/8" TO 1". USE SELF-LOCKING NUT AND FLAT WASHER. DO NOT USE LOCK-WASHER. LENGTH ABOVE FOUNDATION SHALL BE ADJUSTED WHEN BREAKAWAY DEVICES ARE USED.

LOW MOUNT DESIGN TABLE

MOUNTING FOUNDATION HEIGHT	DEPTH	BOLT CIRCLE
30' OR LESS	5'-0"	11 1/2"
31'-35'	6'-0"	11 1/2"
36'-40'	7'-0"	15"
41'-45'	7'-6"	15"
46'-50'	8'-0"	15"



NOTE:
 AFTER POURING CONCRETE, THE FORM SHALL REMAIN UNDISTURBED OVERNIGHT.
 THE TOP 15" ONLY SHALL BE FORMED. CONCRETE BOUNDED BY UNDISTURBED EARTH ONLY SHALL FILL THE REMAINDER OF THE HOLE.

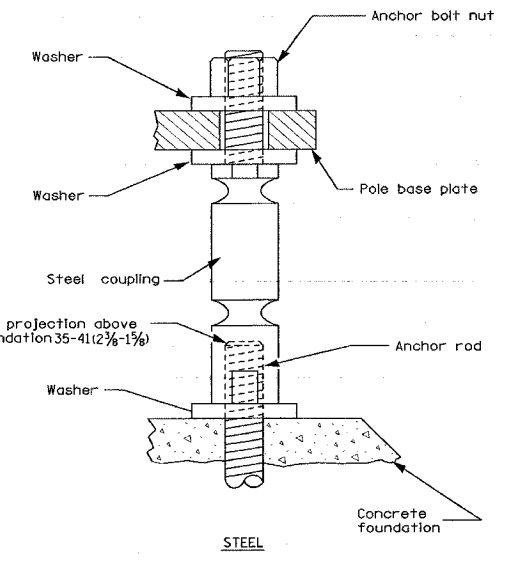
NOTE I:
 MINIMUM CLEARANCE FROM THE OUTSIDE EDGE OF FOUNDATION TO ANY PART OF THE POLE BASEPLATE SHALL BE 2".

NOTE II:
 THE DEPTH OF THE FOUNDATION MAY BE REDUCED 6" FOR EVERY FOOT OF ROCK ENCOUNTERED WITH A MINIMUM DEPTH OF 4'-6". WHEN THE DEPTH OF THE FOUNDATION IS DECREASED TO LESS THAN 6'-0", THE ANCHOR BOLTS SHALL BE CUT, THREADED, AND A STEEL PLATE 20" X 20" X 1/4" SHALL BE INSTALLED ON THE ANCHOR BOLTS 6" ABOVE THE BOTTOM OF THE EXCAVATION. THE COST SHALL BE INCIDENTAL TO THE FOUNDATION.

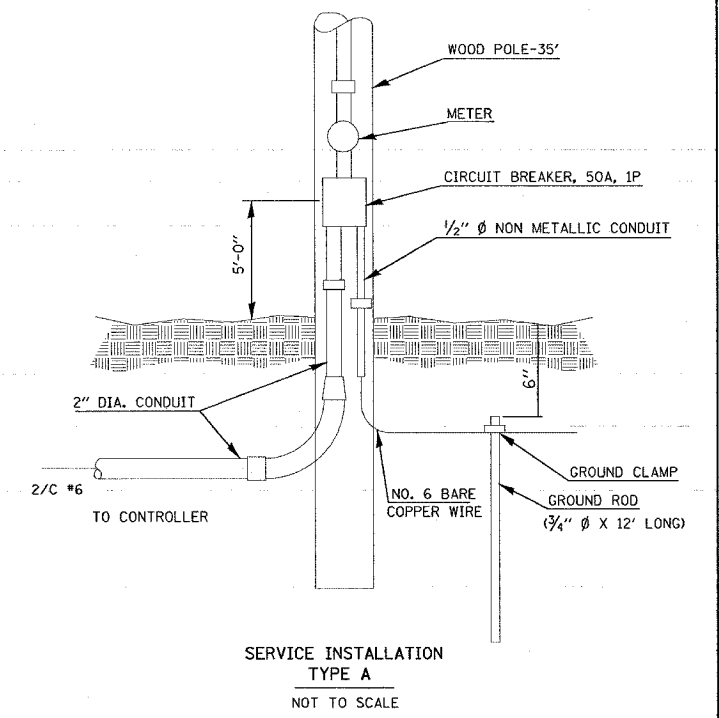
NOTE III:
 ON PARAPET WALLS USE 1/4" Ø ANCHOR BOLTS. USE SELF-LOCKING NUT AND FLAT WASHER. DO NOT USE LOCKWASHER. (FOR DETAILS SEE STANDARD III/2.35 OF BRIDGE DESIGN MANUAL.)

NOTE IV:
 BEND RADIUS SHALL BE FOUR TIMES BOLT DIAMETER.

NOTE V:
 CONNECT GROUND WIRES TO POLE BASE GROUND LUG, NOT ANCHOR BOLTS OR TRANSFORMER BASE.



Installation Instructions:
 Screw couplings onto anchor bolts to end of threads. Very important to level couplings to avoid over stressing and either cracking or stripping of the threads within the coupling.



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 POLE MOUNTED CCTV DETAIL WITH CAMERA LOWERING DEVICE 1 OF 3
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE:
 DATE 05/02/05

DRAWN BY MAM
 CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	..	...	25	7
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ****		
		FAI 55/70	CONTRACT# 76966	
		DIST 8 ITS 2006-1		
		MADISON & ST. CLAIR		

NOTES:

- 1) POLE TUBE
- 2) BASE PLATE
- 3) HANDHOLE FRAME
- 4) HANDHOLE COVER
- 5) ANCHOR BOLTS
- 6) ANCHOR NUTS
- 7) ANCHOR WASHERS
- 8) TOP PLATE
- 9) TENON
- 10) TENON SLEEVE
- 11) WELDING
- 12) FINISH
- 13) POLE CAP
- 14) VALUE STRUCTURES, INC., IS CERTIFIED BY A.I.S.C. FOR CONVENTIONAL STEEL BUILDING STRUCTURES, SIMPLE STEEL CONVENTIONAL STEEL BUILDING STRUCTURES, SIMPLE STEEL BRIDGES, WITH FRACTURE CRITICAL ENDORSEMENT.

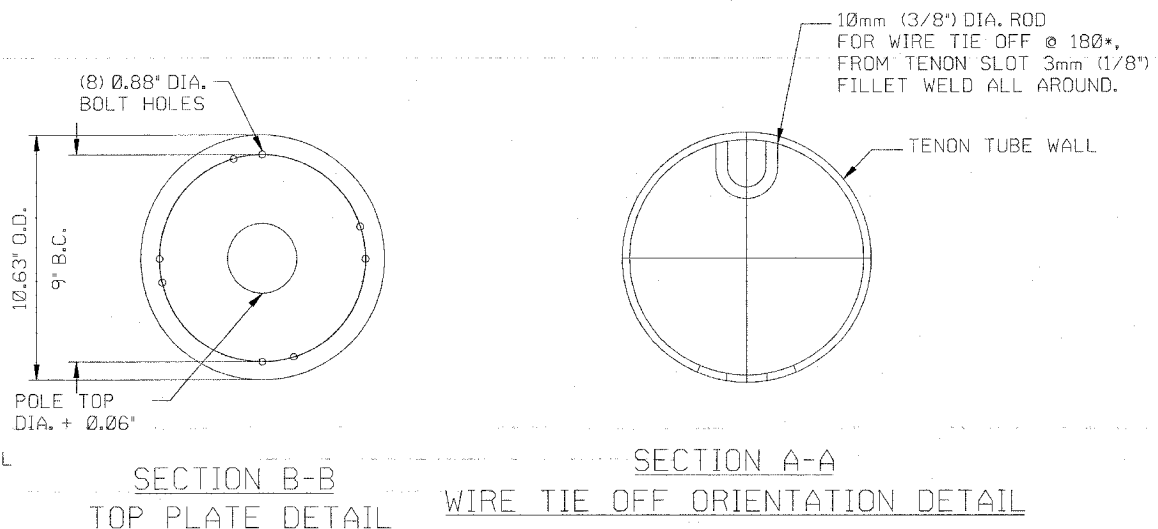
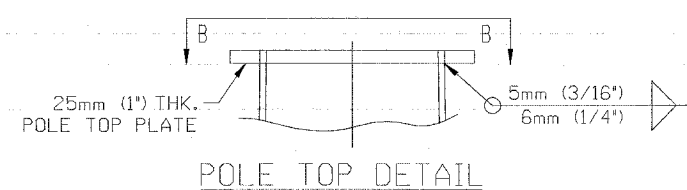
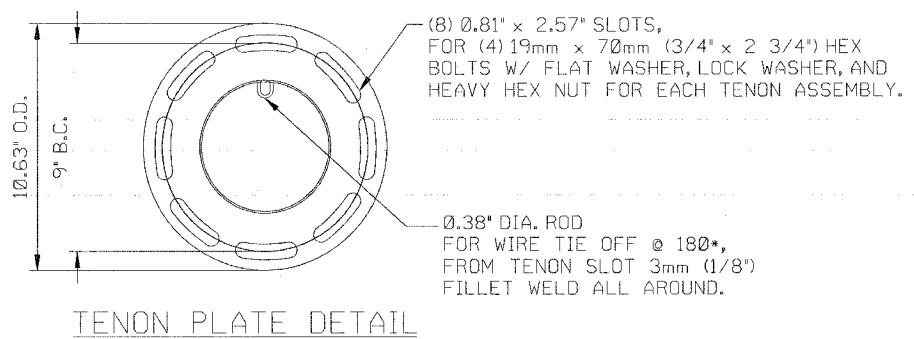
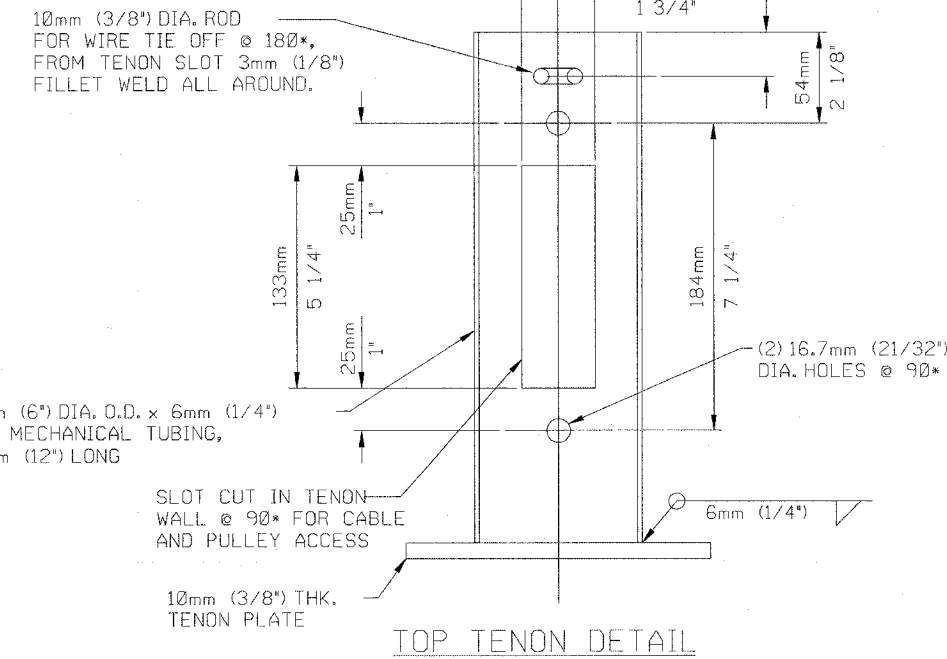
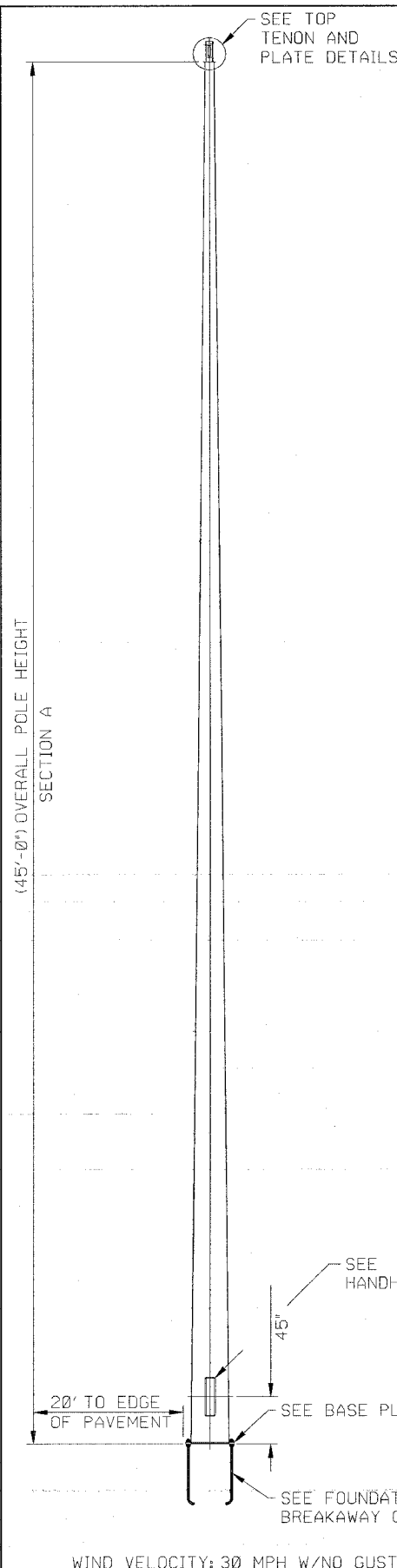
- ASTM A572, GR. 50 MIN.
- ASTM A572, GR. 50.
- ASTM A500, GR B TUBING.
- ASTM A36 MIN.
- ASTM F1554, GR. 55, TOP H.D. GALVANIZED TO ASTM A153.
- ASTM A563, GR. DH OR A194, GR. 2H, H.D. GALVANIZED TO ASTM A153.
- ASTM F436, TYPE 1, H.D. GALVANIZED TO ASTM A153.
- ASTM A572, GR. 50.
- ASTM A53, GR. B PIPE.
- ASTM A512 OR A513.
- AWS D1.1.
- H.D. GALVANIZED TO ASTM A123.
- CAST ALUMINUM OR GALVANIZED STEEL.

DESIGN NOTE:

CCTV POLES AND ANCHORAGE ARE ALL DESIGNED TO ACCEPT MAXIMUM LOADING FROM CAMERAS, STATIONARY ARMS AND LOWERING DEVICES. THE COMBINATION OF CAMERA AND LOWERING DEVICE ASSEMBLY OF 3.0 SQ. FT. EPA AND 130 LBS DEADLOAD RESULTING IN THE LARGEST AREA AND WEIGHT FOR POLE DESIGN TO THE FOLLOWING LOADING CASES; ALL PER AASHTO 2001 STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 4TH EDITION.

LOAD CASE 1
80 MPH AASHTO

LOAD CASE 2
30 MPH SUSTAINED WIND FOR MAXIMUM HORIZONTAL DEFLECTION @ POLE TOP NOT TO EXCEED 1".



WIND VELOCITY: 30 MPH W/NO GUST
1" MAXIMUM POLE TOP DEFLECTION

REVISIONS	
NAME	DATE

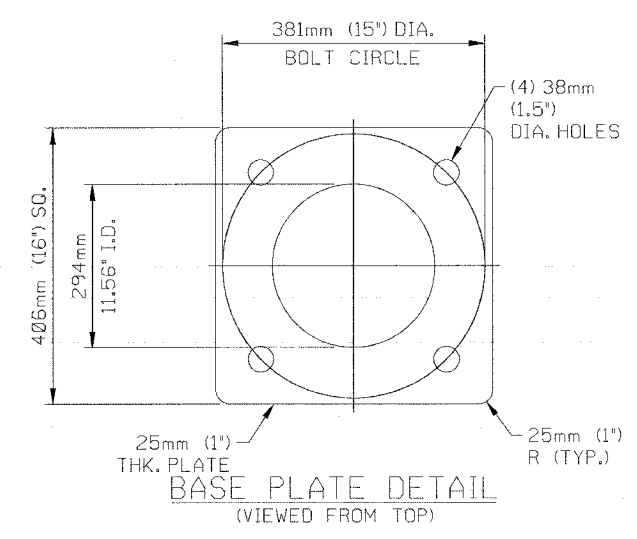
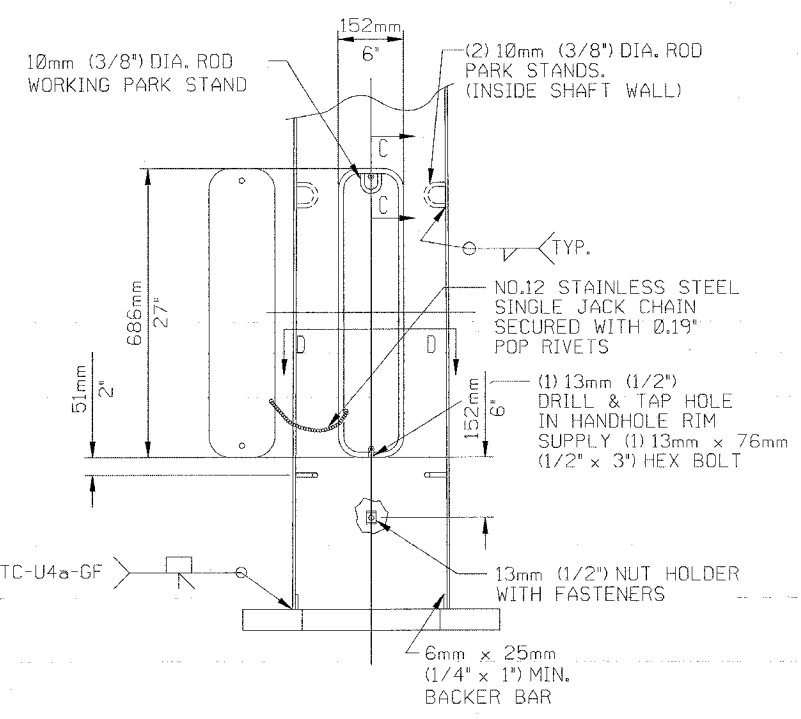
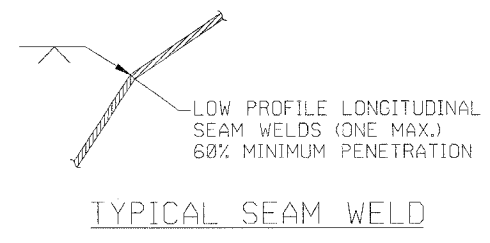
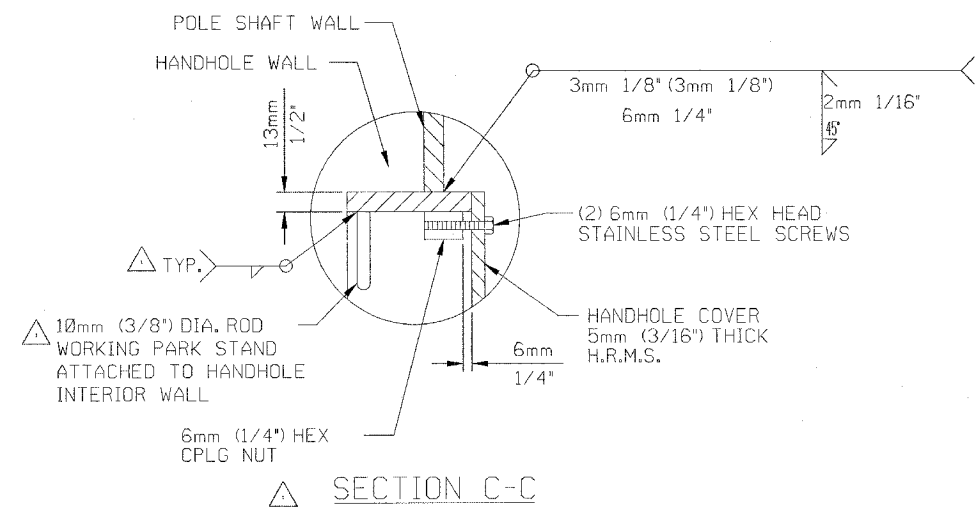
ILLINOIS DEPARTMENT OF TRANSPORTATION
POLE MOUNTED CCTV DETAIL WITH
CAMERA LOWERING DEVICE 2 OF 3
FAI 55/70
SECTION DIST 8 ITS 2006-1
MADISON AND ST. CLAIR COUNTY

SCALE: _____ DATE: 05/02/05

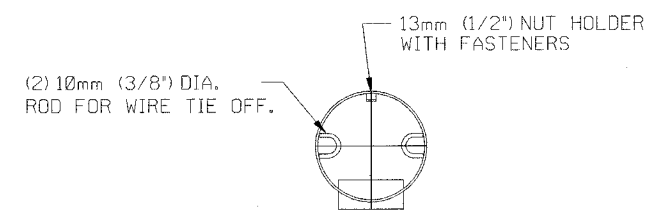
DRAWN BY: MAM
CHECKED BY: CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	25	8
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT ••••		

• FAI 55/70 CONTRACT# 76966
 •• DIST 8 ITS 2006-1
 ••• MADISON & ST. CLAIR



△ 6x27 HANDHOLE DETAIL



△ SECTION D-D

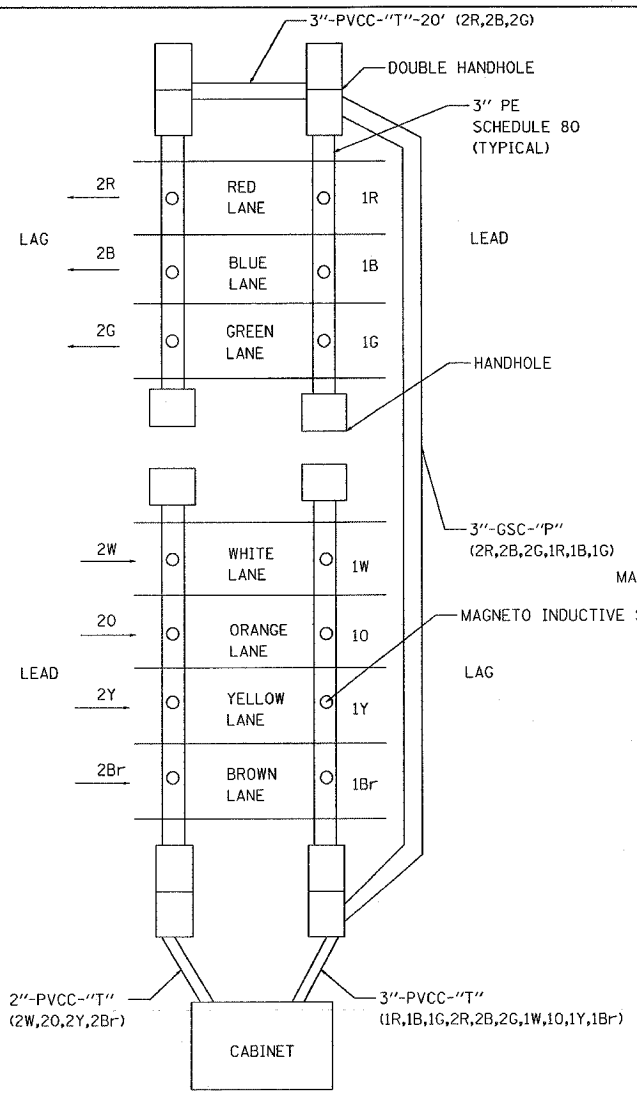
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 POLE MOUNTED CCTV DETAIL WITH
 CAMERA LOWERING DEVICE 3 OF 3
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

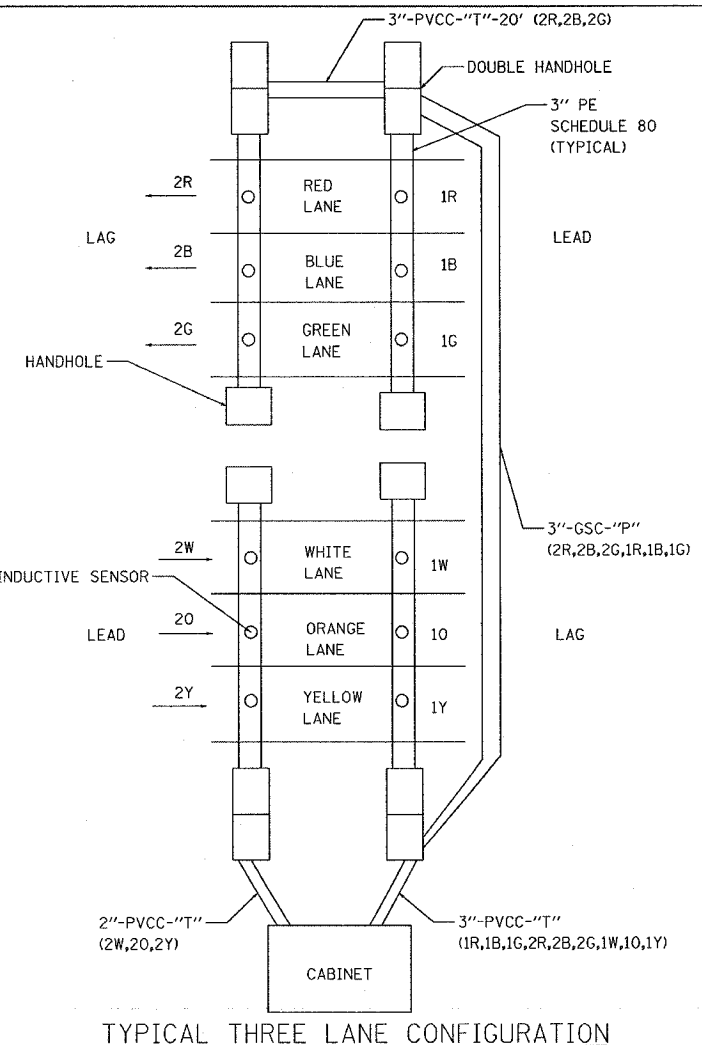
SCALE: _____ DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	..	...	25	9
STA. TO STA.				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT ****				

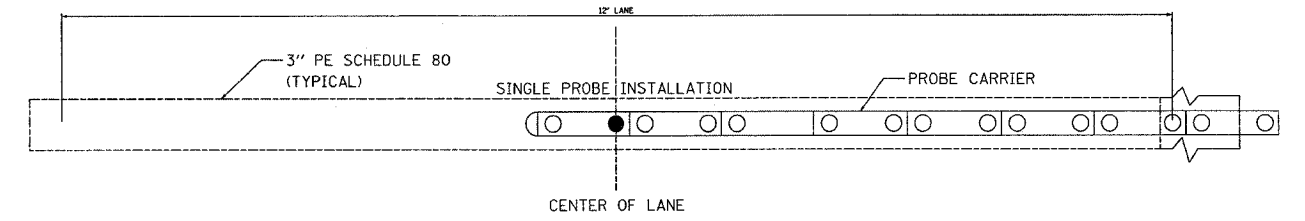
* FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 ... MADISON & ST. CLAIR



TYPICAL THREE-FOUR LANE CONFIGURATION
LOCATION: 557009.1A.30D



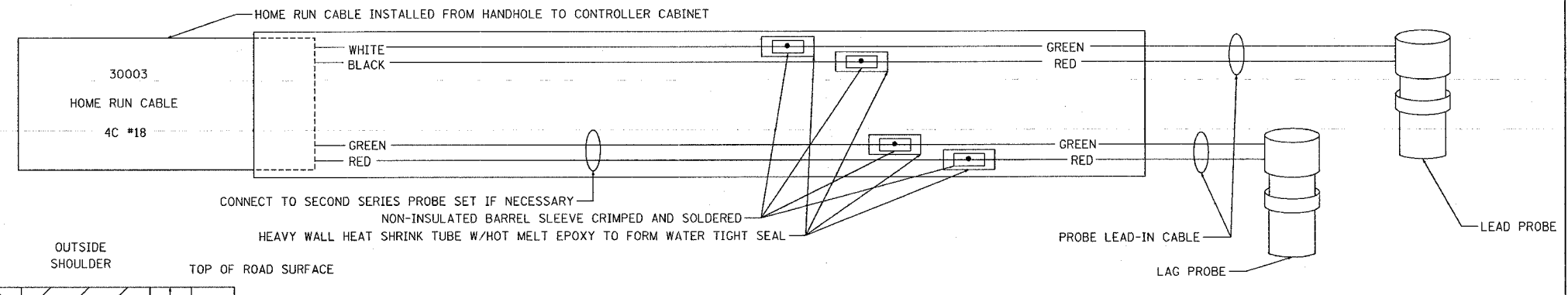
TYPICAL THREE LANE CONFIGURATION
LOCATIONS: 557005.9A.27D, 557007.0A.28D, 557008.0A.29D



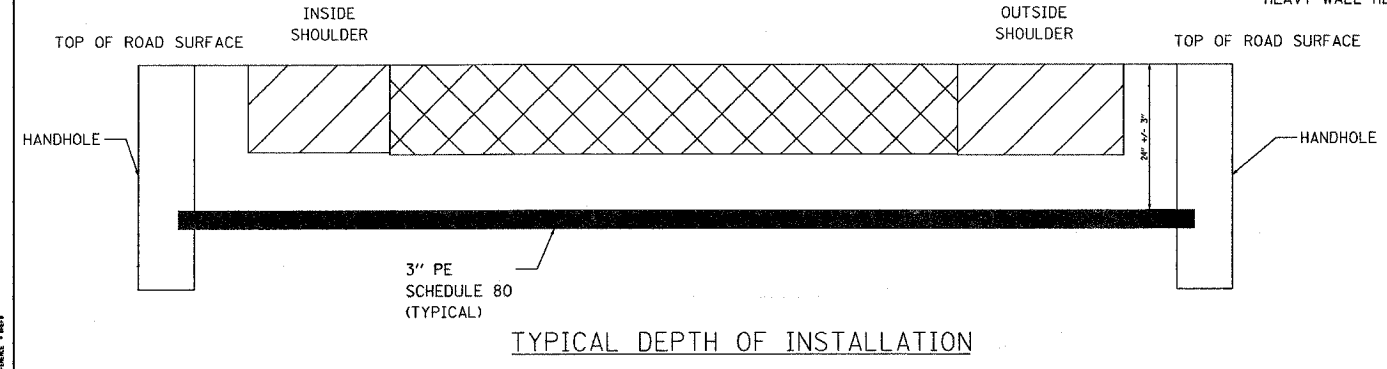
- - INSTALLED PROBE
- - EMPTY PROBE CARRIERS

NOTES:

THE COLOR INDICATING THE LANE IS THE COLOR OF THE TAPE. 1R IS ONE WRAP OF RED TAPE. 2B IS TWO WRAPS OF BLUE TAPE.
 PROBE SHALL BE POSITIONED AT CENTER OF EACH LANE. EXACT POSITIONING AND CONFIGURATION TO BE DETERMINED BY MANUFACTURER'S FIELD REPRESENTATIVE.
 SUFFICIENT NUMBER OF CARRIERS TO BE INSTALLED TO COVER THE DISTANCE FROM THE HANDHOLE TO THE FARTHEST PROBE. FIRST CARRIER INSERTED SHALL BE END CAP CARRIER.
 ANY DEVIATION IN CONDUIT ALIGNMENT SHALL BE LESS THAN 1/4" PER FOOT.
 CONDUIT END CAP TO BE PRESS FITTED (NO ADHESIVE). 3/16" DRAINAGE HOLE TO BE DRILLED IN END CAP. HOLE TO BE POSITIONED AT BOTTOM.
 CONDUIT TO EXTEND APPROXIMATELY 3" INTO HANDHOLE.
 LEAD PROBES SHALL USE ODD CHANNELS AND HAVE B/W WIRES; LAG PROBES SHALL USE EVEN CHANNELS AND HAVE R/G WIRES. CHANNELS SHALL BE USED IN INCREASING ORDER BEGINNING WITH LANE 1 OF NEAR LANES AND ENDING WITH OUTER-MOST LANE OF FAR LANES.
 CONTRACTOR SHALL FINISH INSTALLATION WITH LANDSCAPE FABRIC INSTALLED OVER CONDUIT END IN HANDHOLE. FABRIC SHALL PERMIT WATER TO SEEP THROUGH BUT RESTRICT DIRT FROM ENTERING CONDUIT.
 TYPICAL DEPTH OF PROBE CONDUIT SHOULD BE 24" OR JUST BELOW THE STRUCTURAL SECTION.



TYPICAL SINGLE MAGNETO-INDUCTIVE VEHICLE SENSOR SERIES SPLICING DETAIL CONDUIT-BASED VEHICLE DETECTION SYSTEM

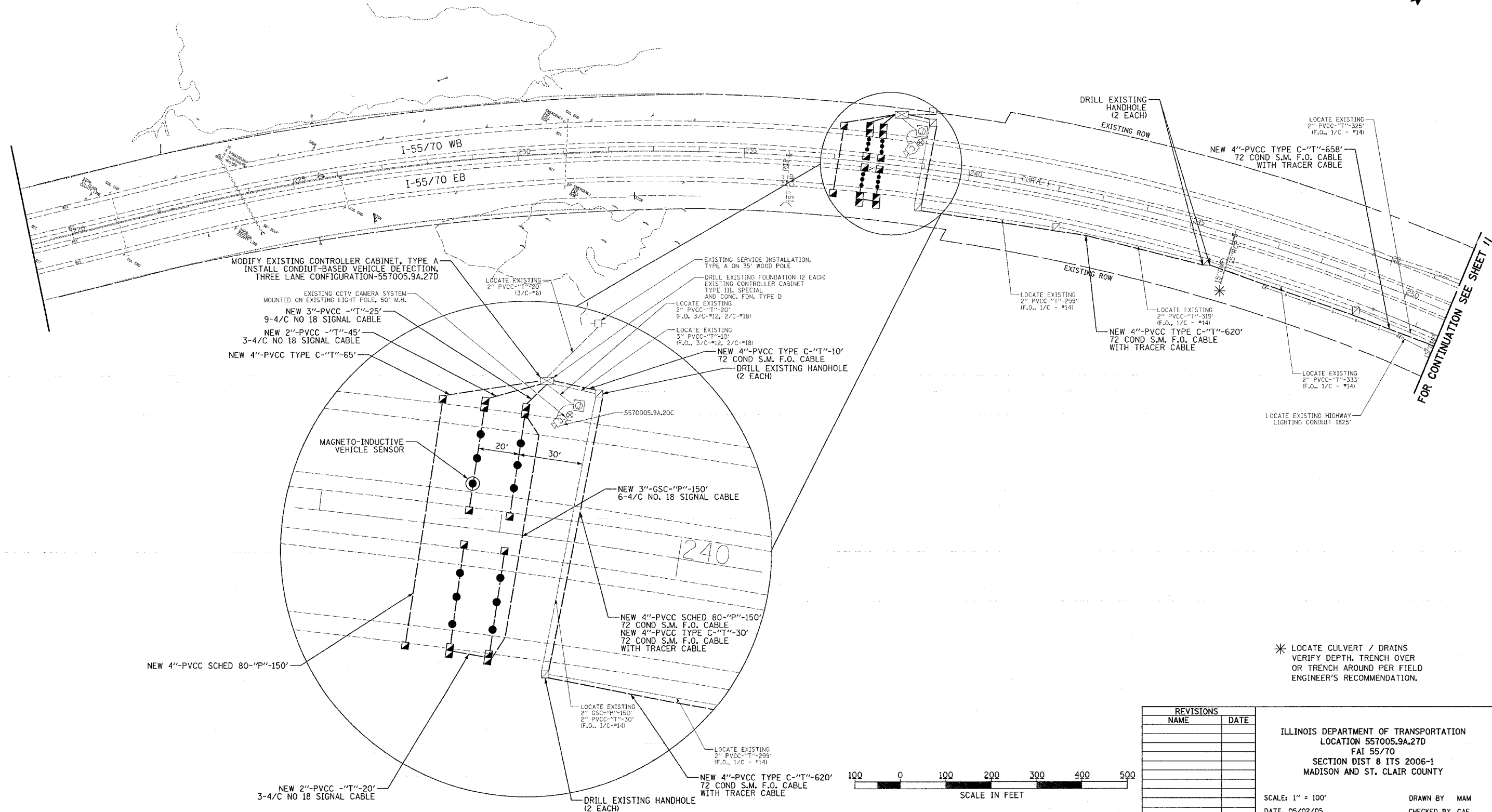
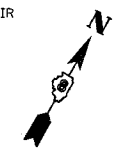


TYPICAL DEPTH OF INSTALLATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAGNETO-INDUCTIVE
 VEHICLE SENSOR DETAIL
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY
 SCALE: DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	...	...	25	10
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
FAI 55/70			CONTRACT# 76966	
DIST 8 ITS 2006-1				
MADISON & ST. CLAIR				



FOR CONTINUATION SEE SHEET 11

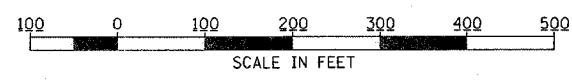
* LOCATE CULVERT / DRAINS
VERIFY DEPTH, TRENCH OVER
OR TRENCH AROUND PER FIELD
ENGINEER'S RECOMMENDATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 557005.9A.27D
FAI 55/70
SECTION DIST 8 ITS 2006-1
MADISON AND ST. CLAIR COUNTY

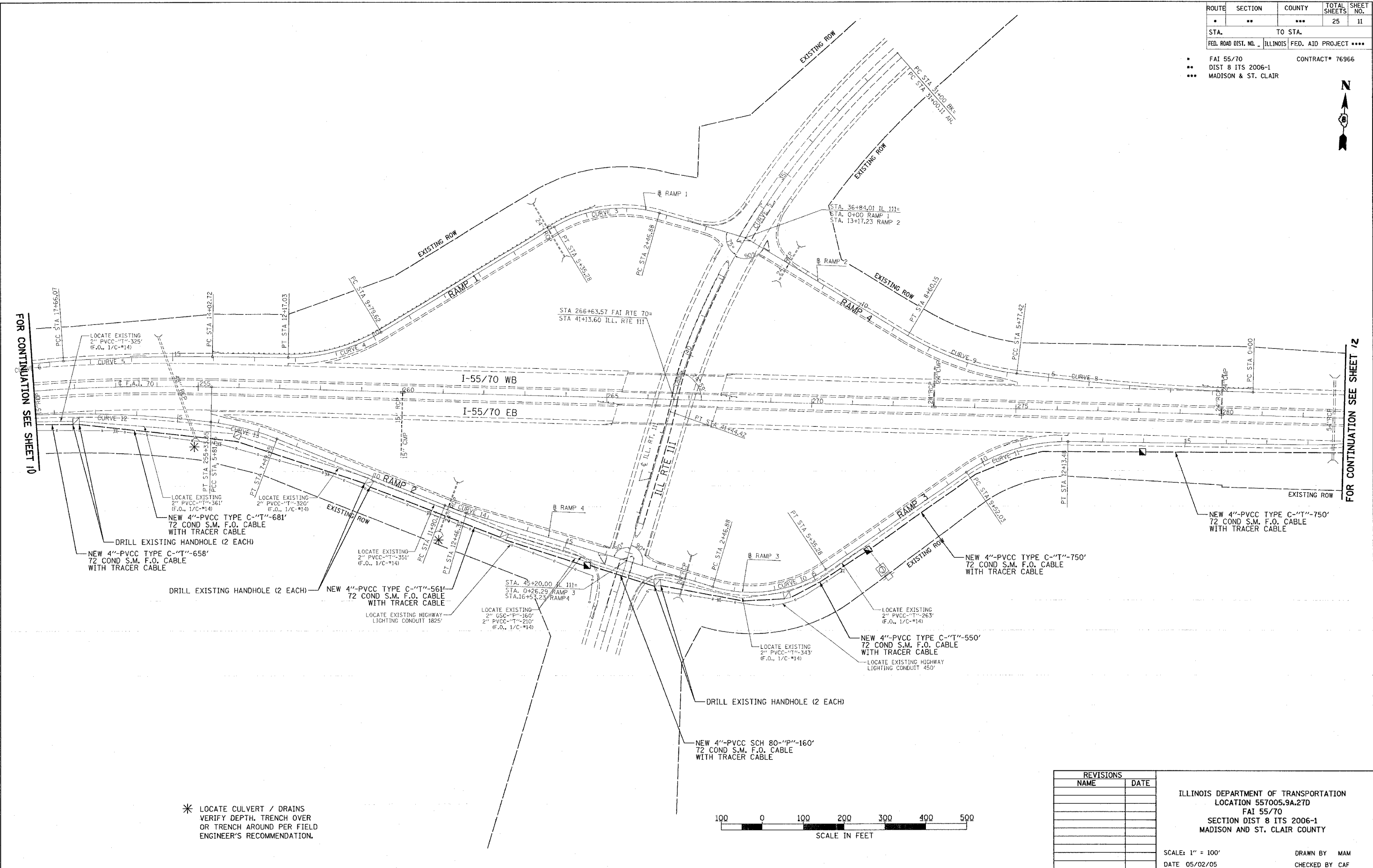
SCALE: 1" = 100'
DATE 05/02/05

DRAWN BY MAM
CHECKED BY CAF



DATE PLOTTED: 05/02/05
 PLOT SCALE: 1" = 100'
 PLOT SHEET: 10 OF 25

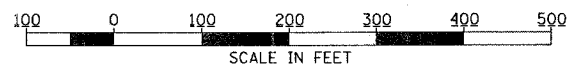
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	25	11
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT ••••		
• FAI 55/70		CONTRACT# 76966		
•• DIST 8 ITS 2006-1				
••• MADISON & ST. CLAIR				



FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 12

* LOCATE CULVERT / DRAINS
VERIFY DEPTH, TRENCH OVER
OR TRENCH AROUND PER FIELD
ENGINEER'S RECOMMENDATION.

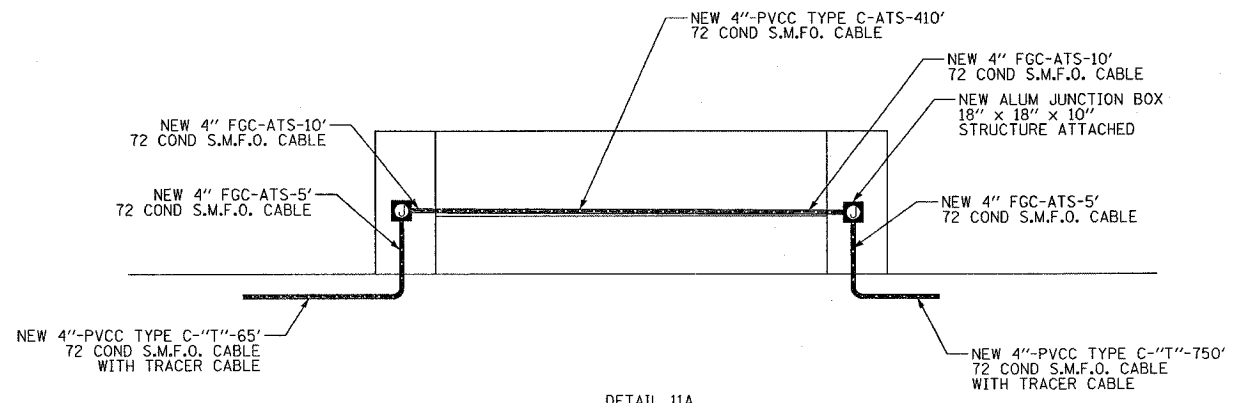


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 557005.9A.2TD
FAI 55/70
SECTION DIST 8 ITS 2006-1
MADISON AND ST. CLAIR COUNTY

SCALE: 1" = 100'
DATE 05/02/05
DRAWN BY MAM
CHECKED BY CAF

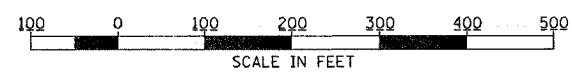
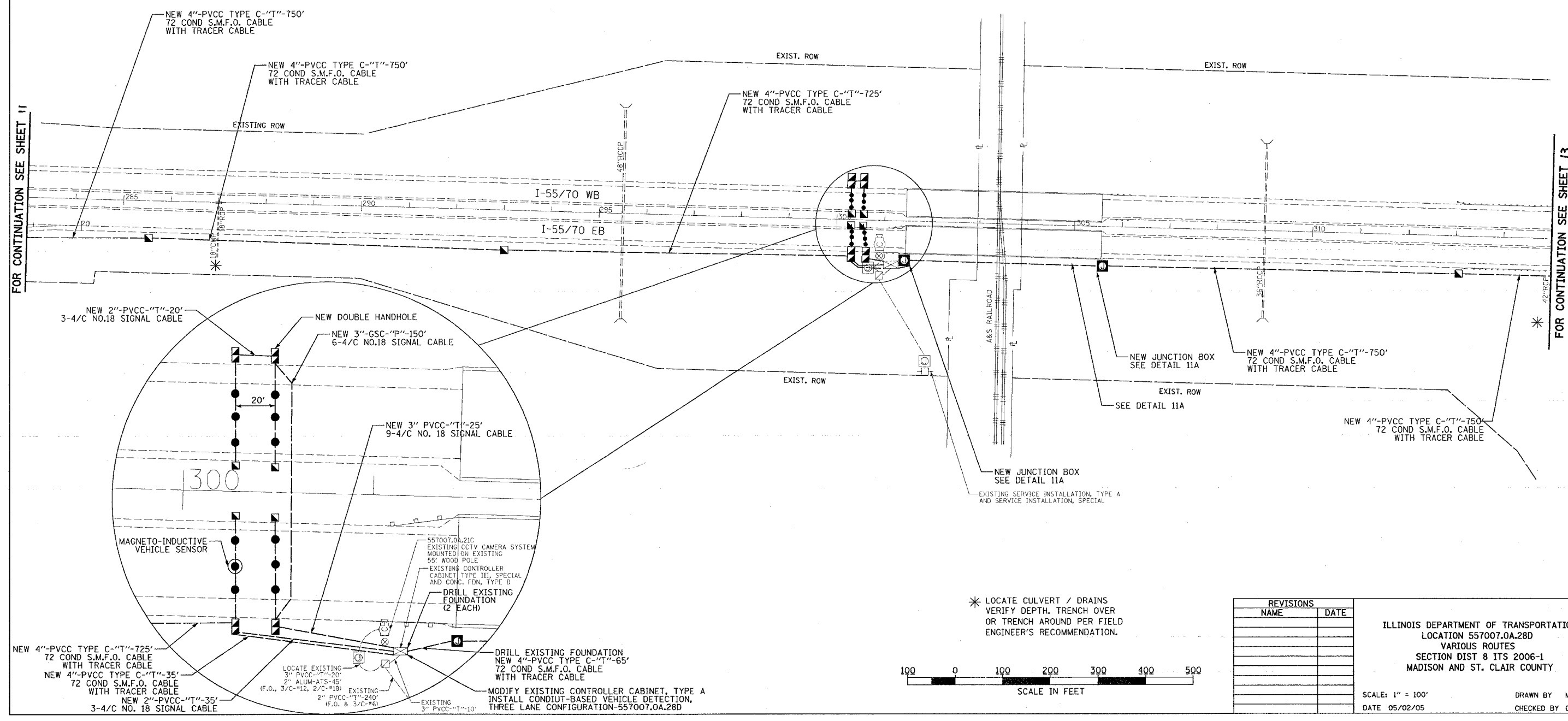
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	..	..	25	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	****	
..	VARIOUS	CONTRACT#	76966	
..	DIST 8 ITS 2006-1			
..	MADISON & ST. CLAIR			
..	D-98-012-02			



- NOTES:
1. MINIMUM OF 10' FG CONDUIT SHOULD BE ATTACHED TO EITHER SIDE OF STRUCTURE OR PER FIELD ENGINEER'S RECOMMENDATION.
 2. CLAMP CONDUIT ON TOP OF BEAM FLANGE
 3. CONTRACTOR CANNOT WELD OR PENETRATE STRUCTURAL STEEL

FOR CONTINUATION SEE SHEET 11

FOR CONTINUATION SEE SHEET 13



* LOCATE CULVERT / DRAINS
VERIFY DEPTH, TRENCH OVER
OR TRENCH AROUND PER FIELD
ENGINEER'S RECOMMENDATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 557007.OA.28D
VARIOUS ROUTES
SECTION DIST 8 ITS 2006-1
MADISON AND ST. CLAIR COUNTY

SCALE: 1" = 100'
DATE 05/02/05

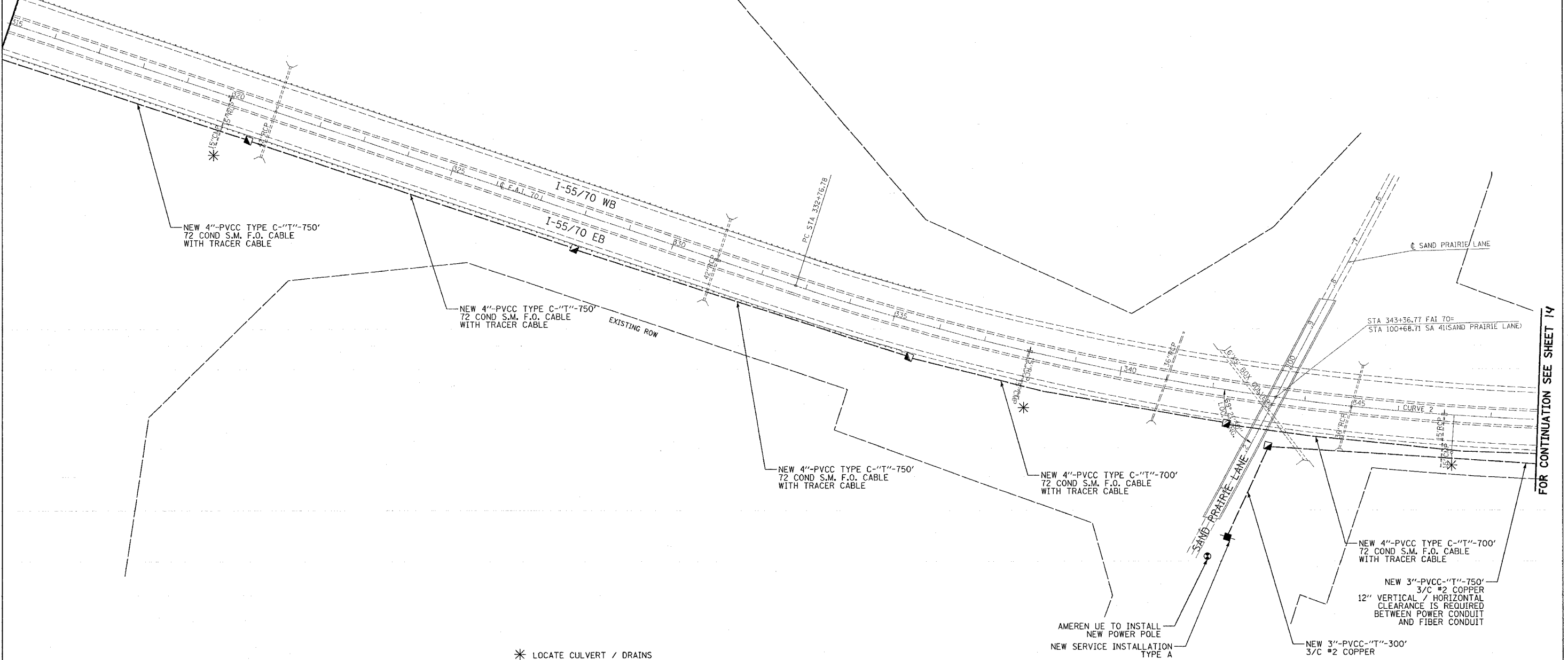
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CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	25	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT *****		

* FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR

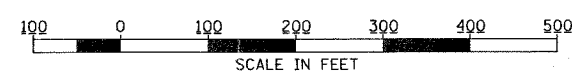


FOR CONTINUATION SEE SHEET 12



FOR CONTINUATION SEE SHEET 14

* LOCATE CULVERT / DRAINS
 VERIFY DEPTH. TRENCH OVER
 OR TRENCH AROUND PER FIELD
 ENGINEER'S RECOMMENDATION.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 557007.OA.28D
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

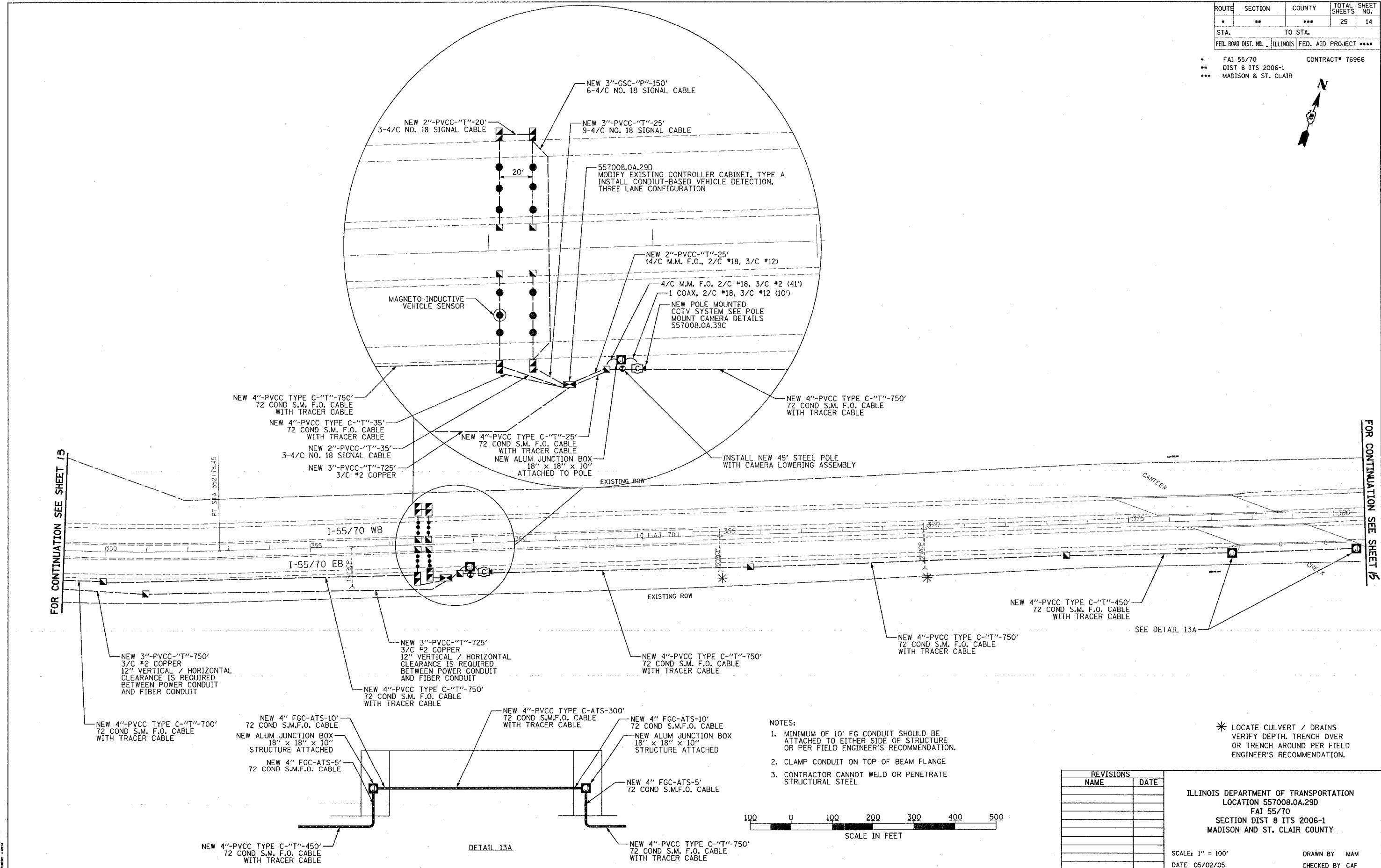
SCALE: 1" = 100'
 DATE 05/02/05

DRAWN BY MAM
 CHECKED BY CAF

DATE PLOTTED: 05/02/05
 PLOTTER: HP PLOTTER
 SCALE: 1" = 100'
 SHEET: 13 OF 25

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	25	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	••••	

• FAI 55/70 CONTRACT# 76966
 •• DIST 8 ITS 2006-1
 ••• MADISON & ST. CLAIR

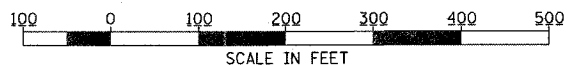


FOR CONTINUATION SEE SHEET 13

FOR CONTINUATION SEE SHEET 15

- NOTES:
- MINIMUM OF 10' FG CONDUIT SHOULD BE ATTACHED TO EITHER SIDE OF STRUCTURE OR PER FIELD ENGINEER'S RECOMMENDATION.
 - CLAMP CONDUIT ON TOP OF BEAM FLANGE
 - CONTRACTOR CANNOT WELD OR PENETRATE STRUCTURAL STEEL

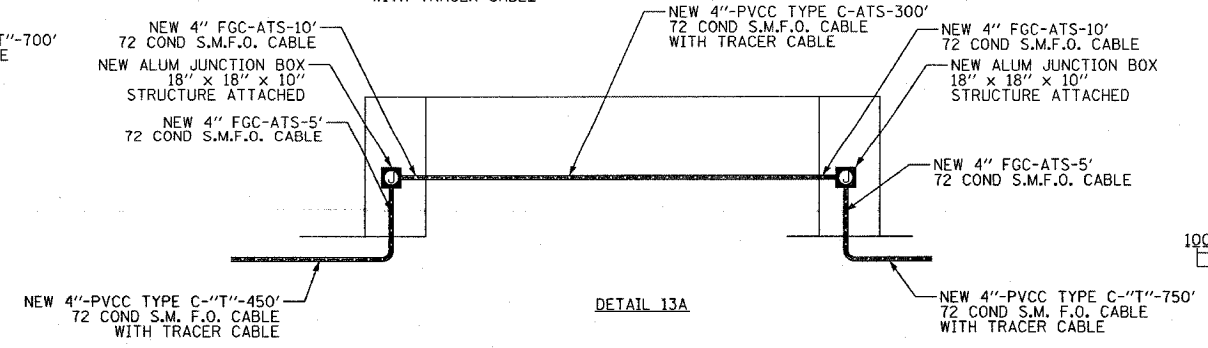
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 557008.OA.29D
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: 1" = 100'
 DATE 05/02/05
 DRAWN BY MAM
 CHECKED BY CAF



DETAIL 13A

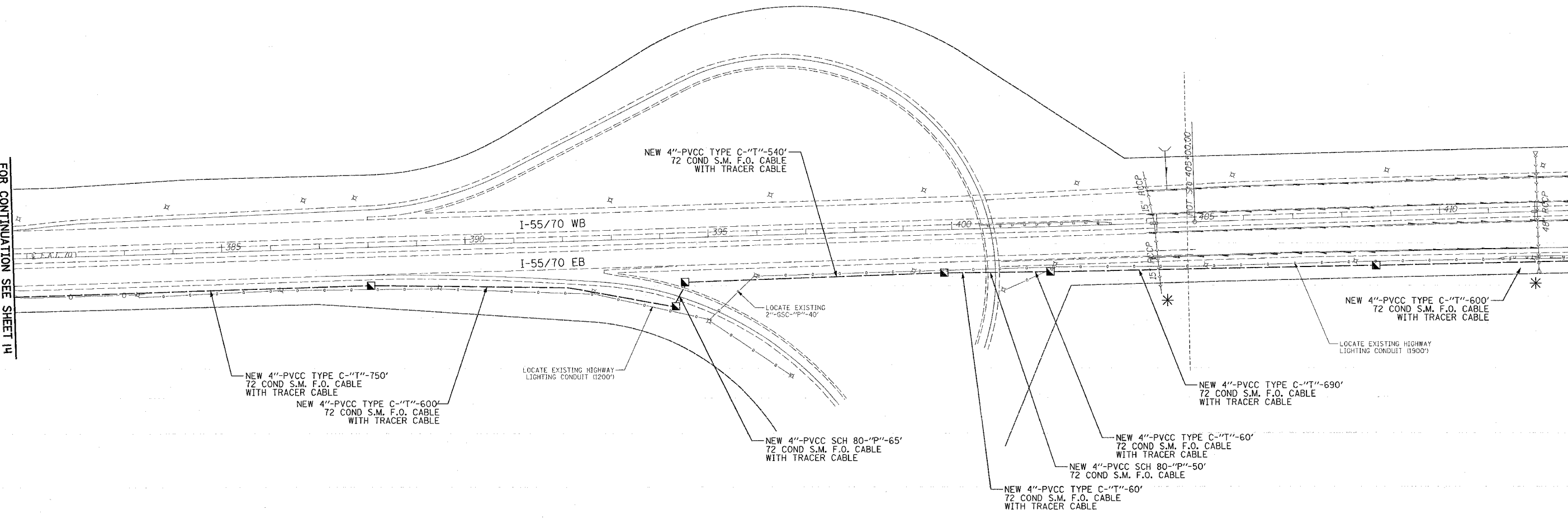
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	..	...	25	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• FAI 55/70 CONTRACT# 76966
 • DIST 8 ITS 2006-1
 • MADISON & ST. CLAIR

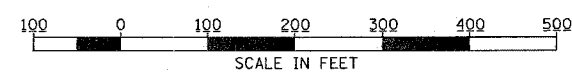


FOR CONTINUATION SEE SHEET 14

FOR CONTINUATION SEE SHEET 16



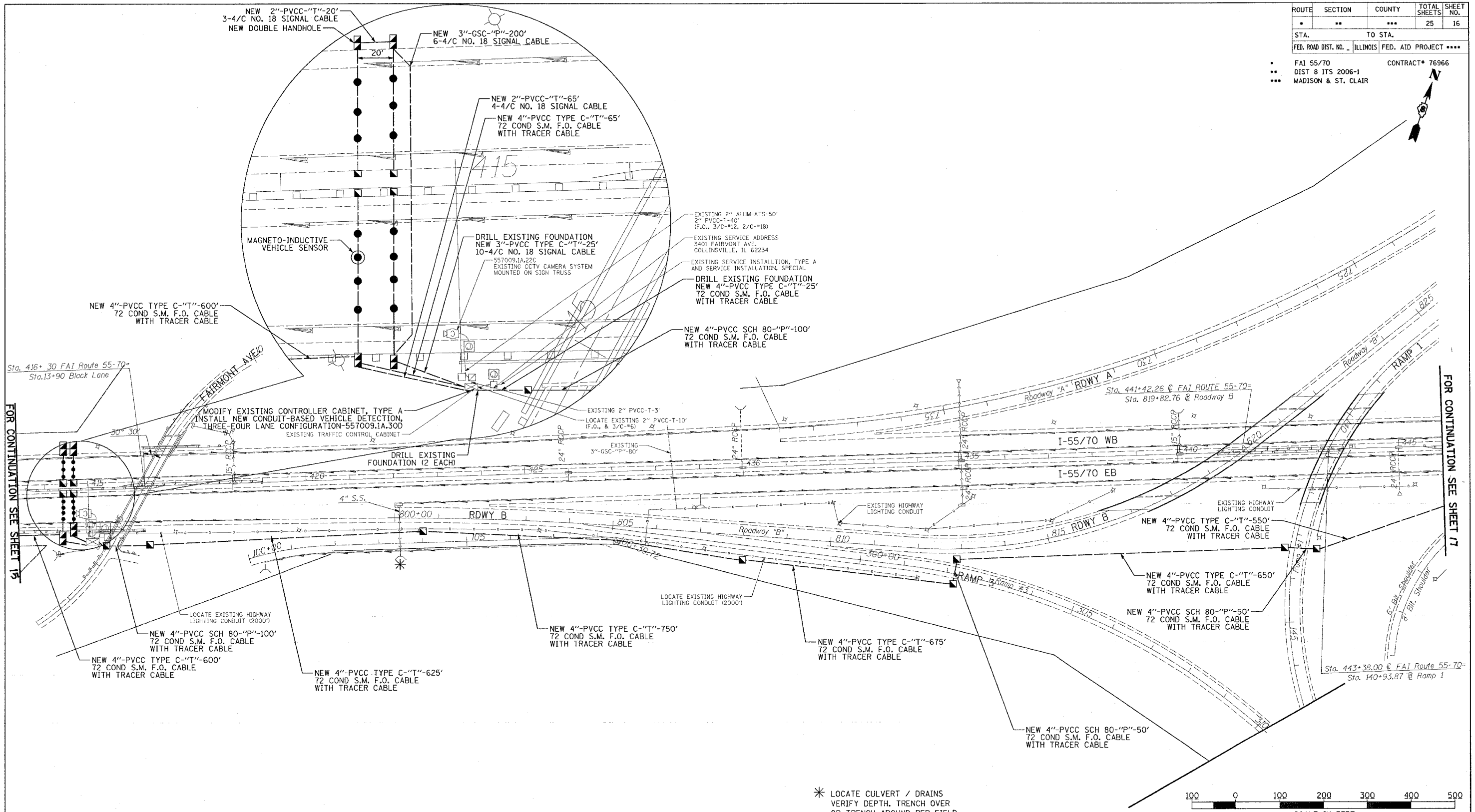
* LOCATE CULVERT / DRAINS
 VERIFY DEPTH, TRENCH OVER
 OR TRENCH AROUND PER FIELD
 ENGINEER'S RECOMMENDATION.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 557008.OA.09D
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY
 SCALE: 1" = 100'
 DATE 05/02/05
 DRAWN BY MAM
 CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	25	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	••••	
•	FAI 55/70	CONTRACT#	76966	
••	DIST 8 ITS 2006-1			
•••	MADISON & ST. CLAIR			

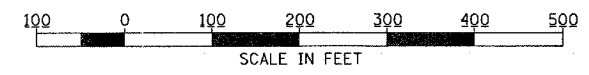
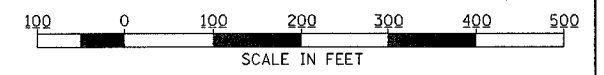


FOR CONTINUATION SEE SHEET 15

FOR CONTINUATION SEE SHEET 17

NOTE:
 ANY BRUSH CLEARING AT LOCATION
 557009.1A.30D SHALL BE INCLUDED
 IN THE COST OF TRENCH AND BACKFILL
 PAY ITEM

* LOCATE CULVERT / DRAINS
 VERIFY DEPTH, TRENCH OVER
 OR TRENCH AROUND PER FIELD
 ENGINEER'S RECOMMENDATION.



REVISIONS	
NAME	DATE

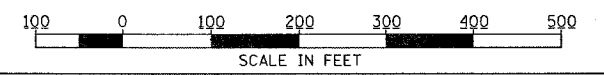
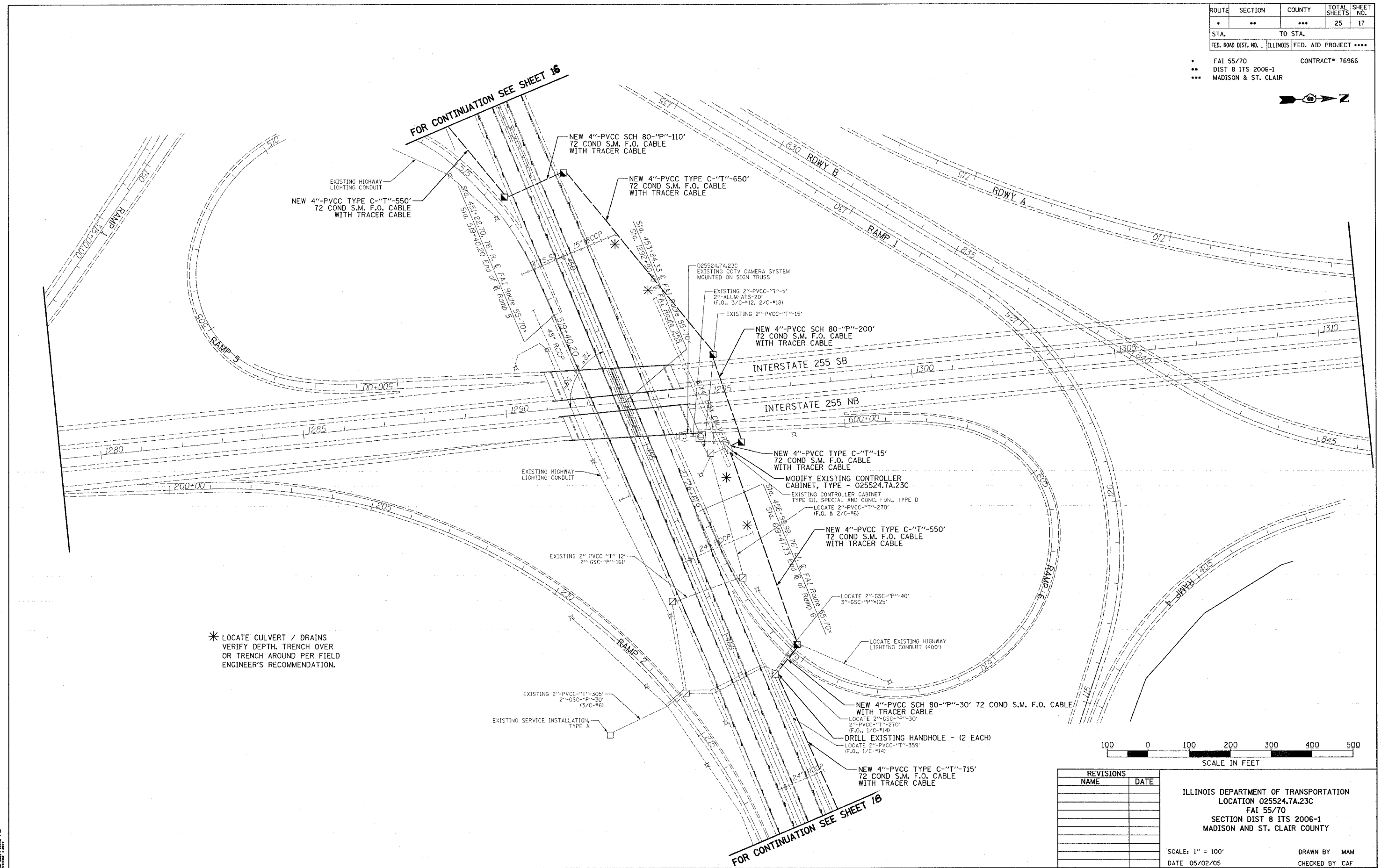
ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 557009.1A.30D
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: 1" = 100'
 DATE 05/02/05

DRAWN BY MAM
 CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	25	17
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

• FAI 55/70 CONTRACT# 76966
 •• DIST 8 ITS 2006-1
 ••• MADISON & ST. CLAIR



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 025524.7A.23C
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: 1" = 100'
 DATE 05/02/05

DRAWN BY MAM
 CHECKED BY CAF

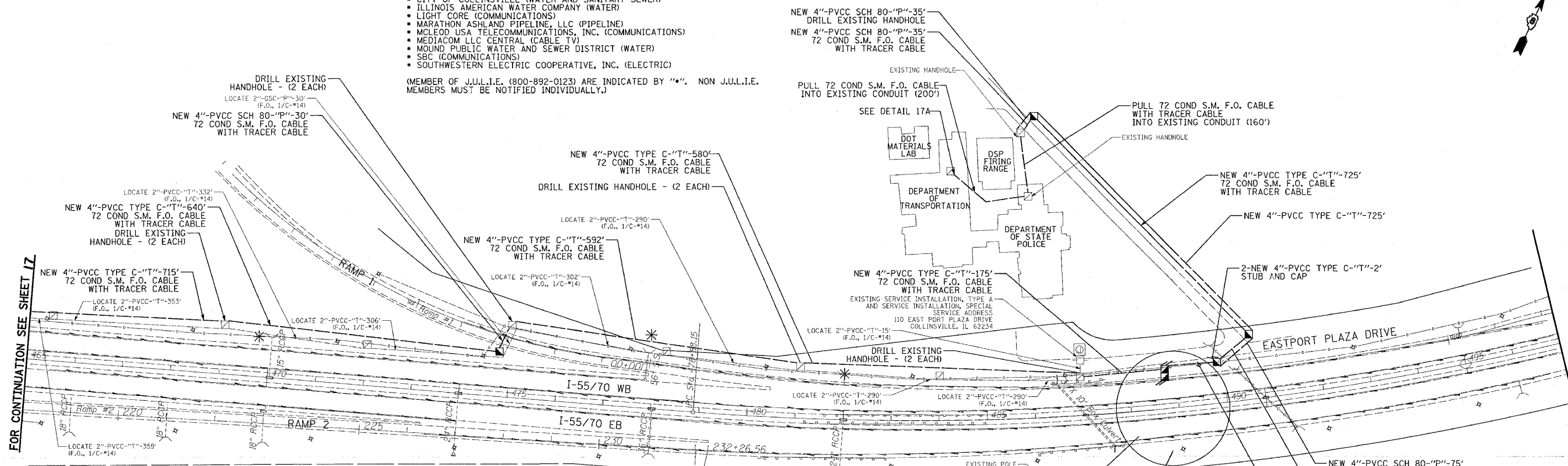
DATE PLOTTED: 05/02/05
 PLOTTER: HP PLOTTER
 SCALE: 1" = 100'
 SHEET: 17 OF 25

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	..	...	25	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT ****		
* VARIOUS		CONTRACT# 76966		
** DIST 8 ITS 2006-1				
*** MADISON & ST. CLAIR				
**** D-98-012-02				

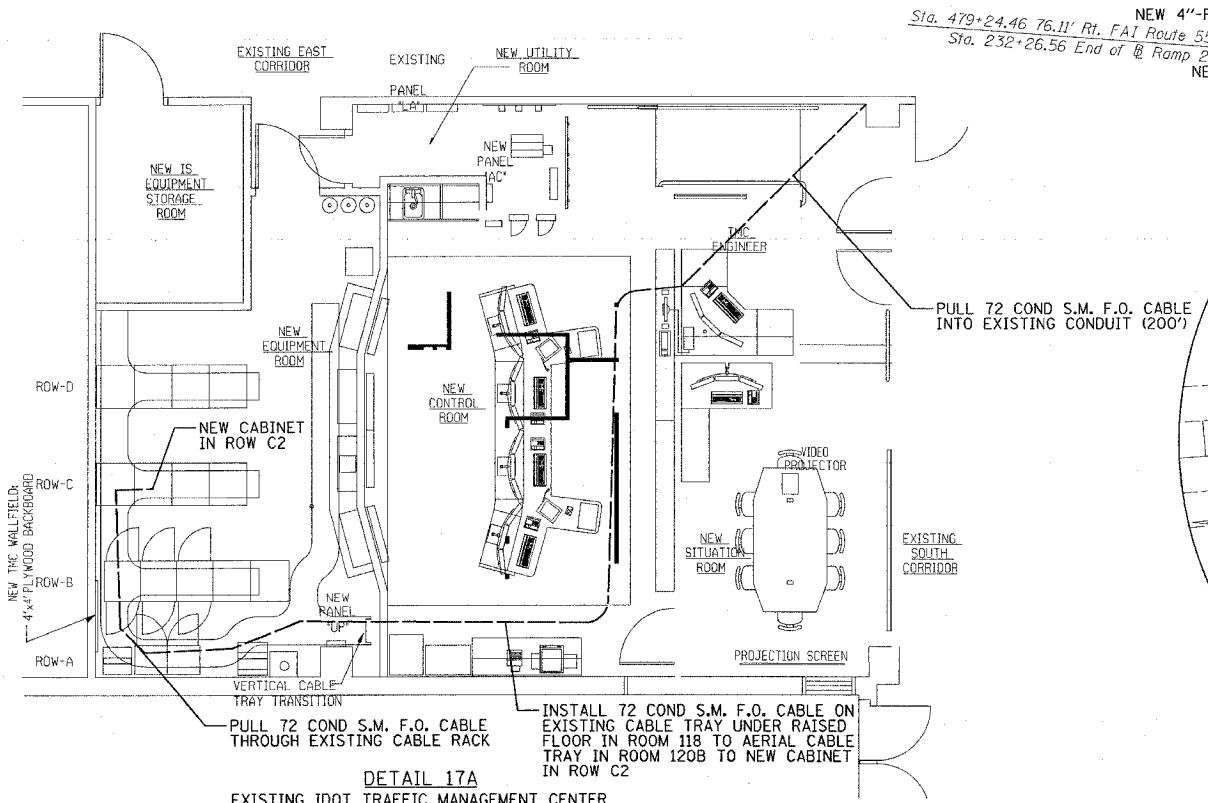


- UTILITIES**
- AMEREN IP (GAS AND ELECTRIC)
 - AMEREN UP (ELECTRIC)
 - AT AND T CORPORATION (COMMUNICATIONS)
 - CENTER POINT ENERGY (PIPELINE)
 - CITY OF COLLINSVILLE (WATER AND SANITARY SEWER)
 - ILLINOIS AMERICAN WATER COMPANY (WATER)
 - LIGHT CORE (COMMUNICATIONS)
 - MARATHON ASHLAND PIPELINE, LLC (PIPELINE)
 - MCLEOD USA TELECOMMUNICATIONS, INC. (COMMUNICATIONS)
 - MEDIACOM LLC CENTRAL (CABLE TV)
 - MOUND PUBLIC WATER AND SEWER DISTRICT (WATER)
 - SBC (COMMUNICATIONS)
 - SOUTHWESTERN ELECTRIC COOPERATIVE, INC. (ELECTRIC)

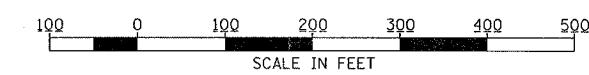
(MEMBER OF J.U.L.I.E. (800-892-0123) ARE INDICATED BY "*", NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)



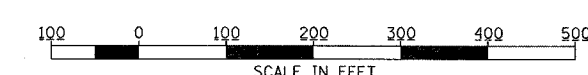
FOR CONTINUATION SEE SHEET 17



DETAIL 17A
 EXISTING IDOT TRAFFIC MANAGEMENT CENTER



* LOCATE CULVERT / DRAINS
 VERIFY DEPTH, TRENCH OVER
 OR TRENCH AROUND PER FIELD
 ENGINEER'S RECOMMENDATION.



REVISIONS	
NAME	DATE

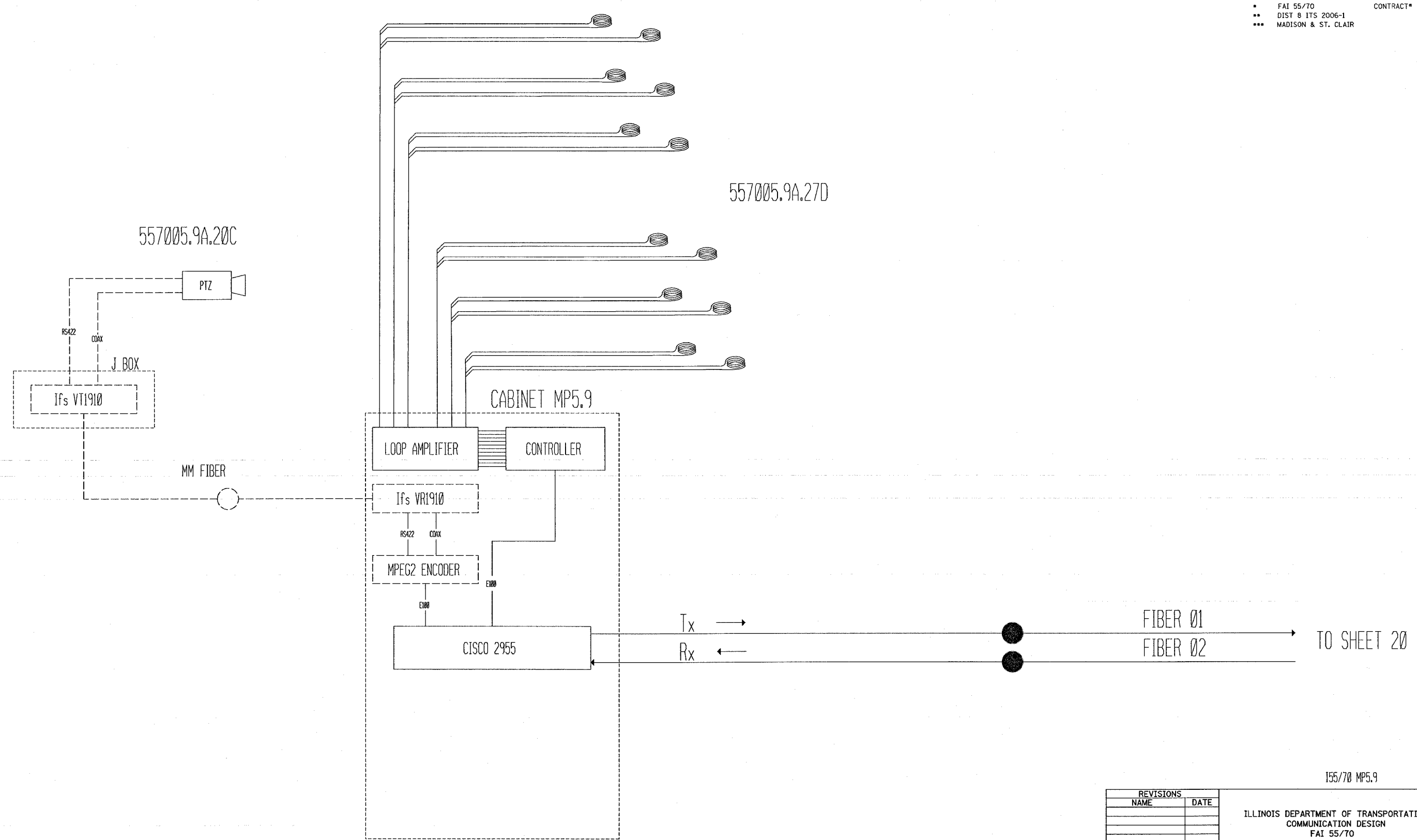
ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 557010.5A.31D
 VARIOUS ROUTES
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: 1" = 100'
 DATE 05/02/05

DRAWN BY MAM
 CHECKED BY CAF

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	25	19
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS	FED. AID PROJECT *****	

• FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR



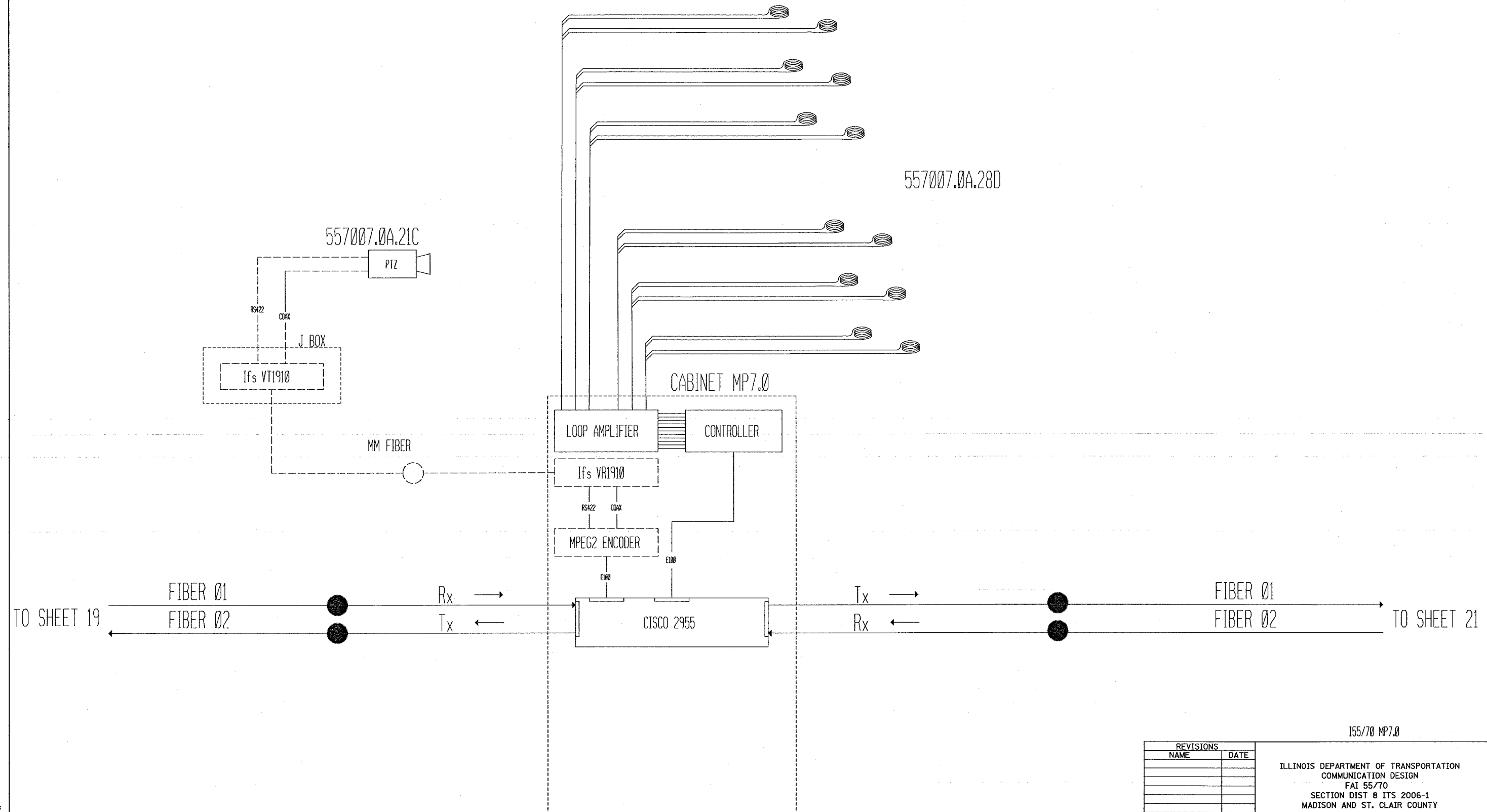
155/70 MP5.9

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: _____ DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY



155/70 MP7.0

REVISIONS	
NAME	DATE

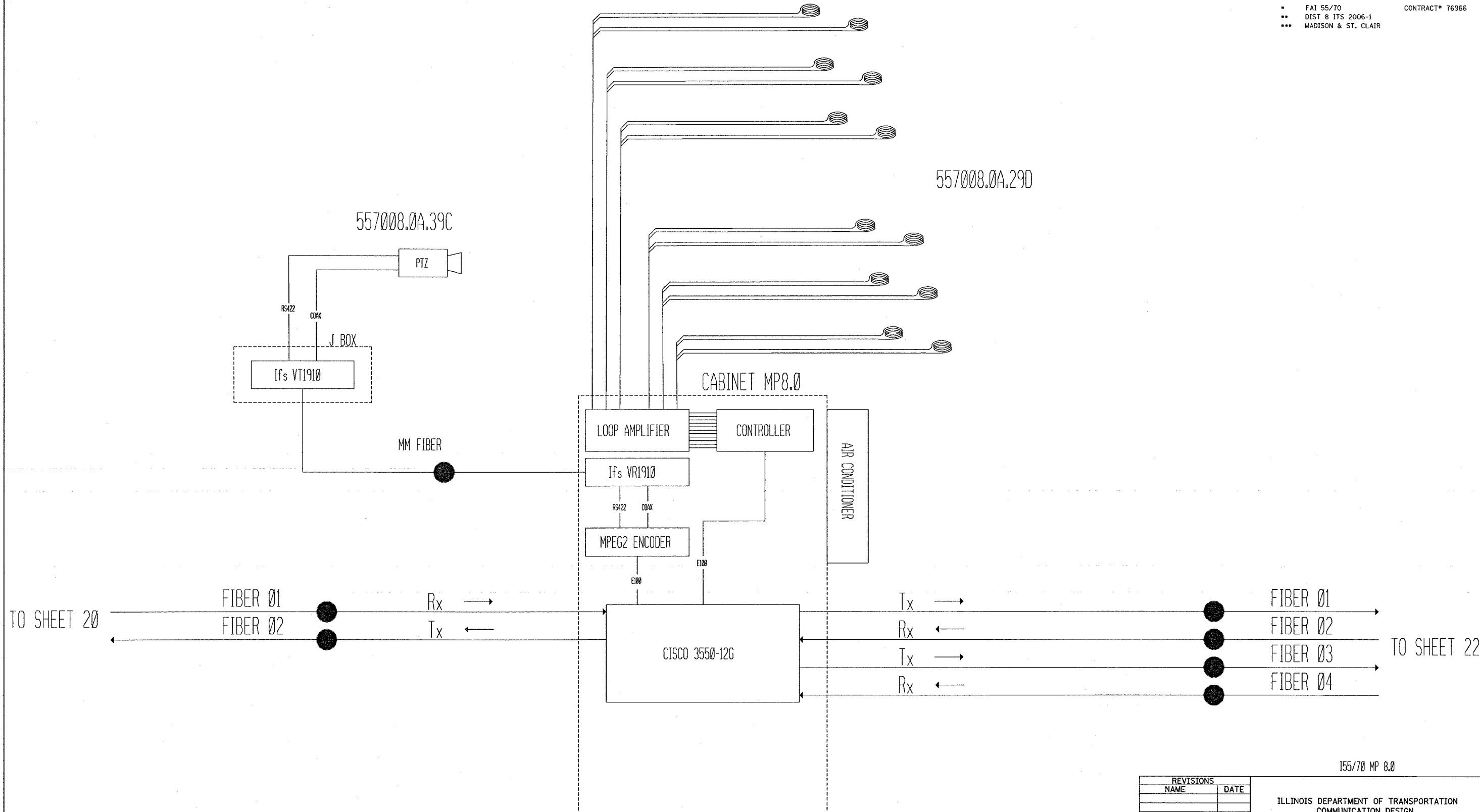
ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 DIMENSIONS IN INCHES ARE FOR INFORMATION ONLY.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	25	21
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ****				

• FAI 55/70 CONTRACT# 76966
 •• DIST 8 ITS 2006-1
 ••• MADISON & ST. CLAIR



155/70 MP 8.0

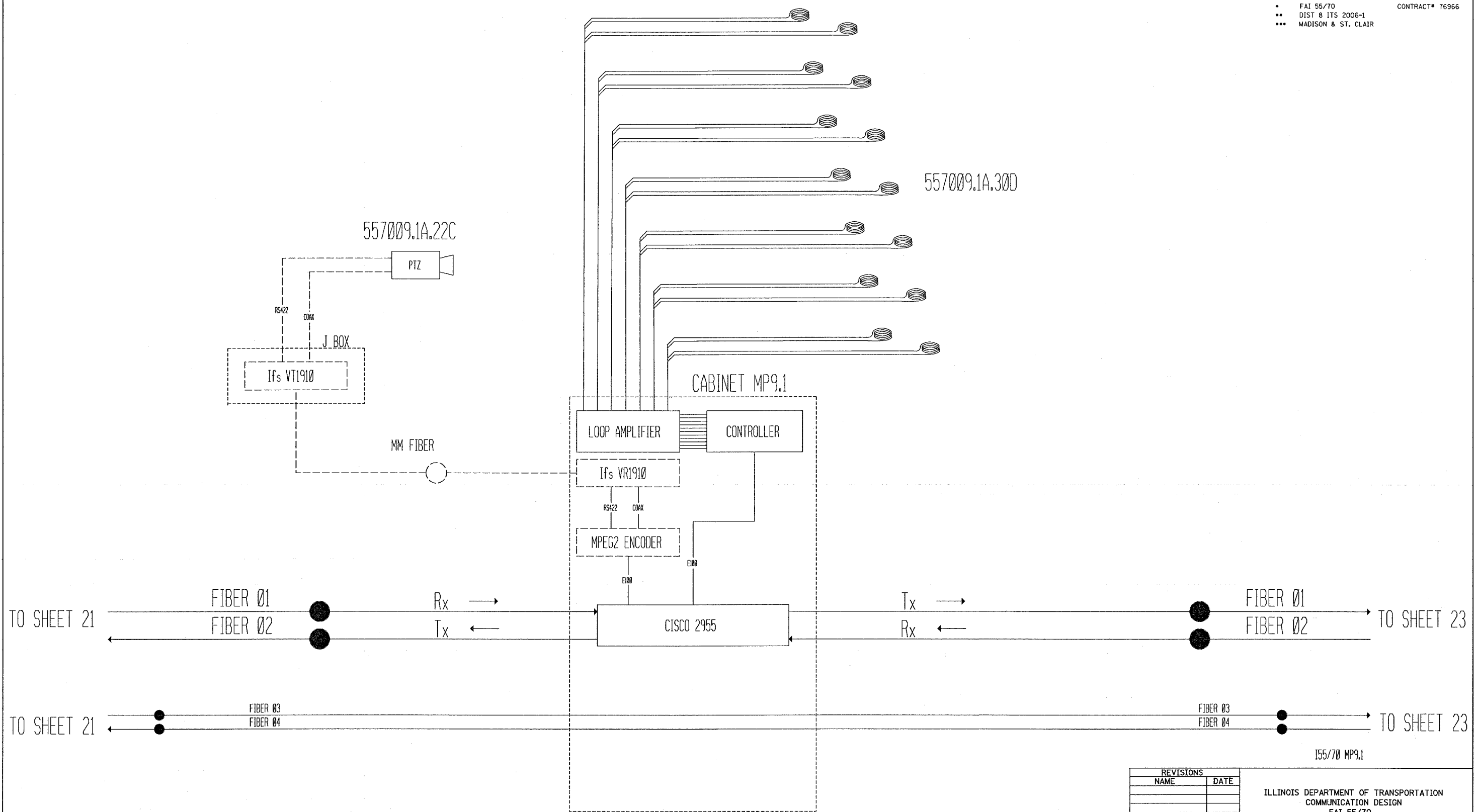
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 VARIOUS ROUTES
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY
 SCALE: DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

DATE PLOTTED: 05/02/05 10:00 AM
 PLOTTER: HP PLOTTER
 FILE: 15570.MP8.0.DWG

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	25	22
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ****				

• FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR



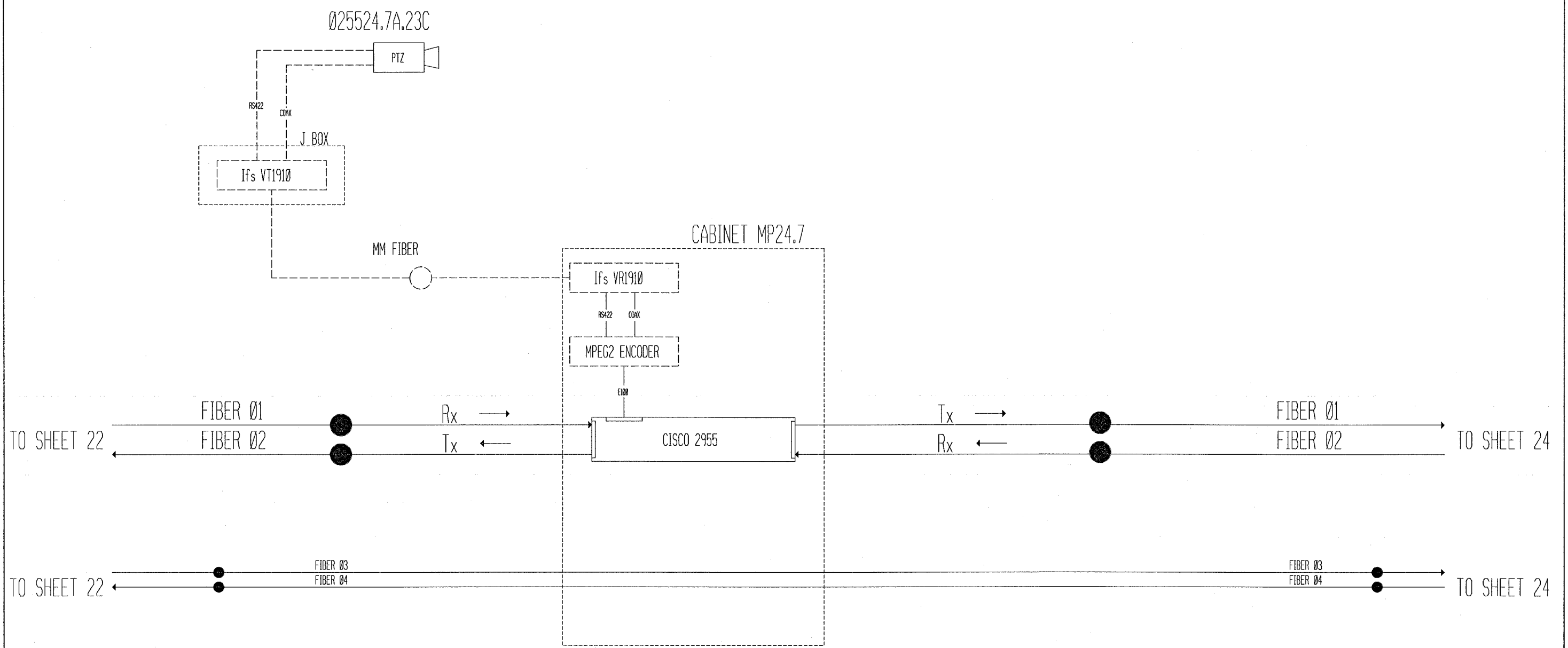
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY
 SCALE: DATE 05/02/05 DRAWN BY MAM CHECKED BY CAF

155/70 MP9.1

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	25	23
STA.		TO STA.		
FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT ****				

• FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR



155/70 MP10.0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

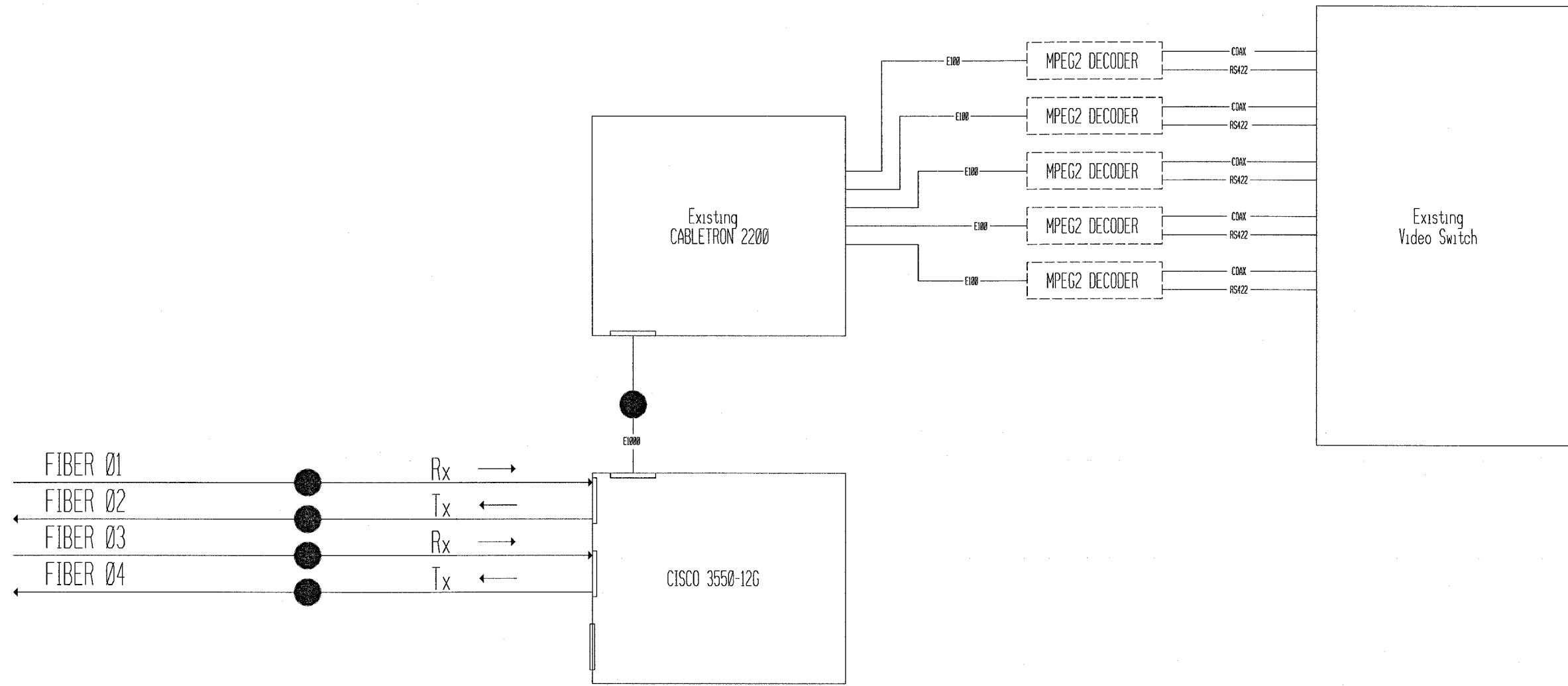
SCALE: DATE 05/02/05 DRAWN BY MAM CHECKED BY CAF

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	25	24
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ****				

* FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR

TO SHEET 23



TMC

REVISIONS	
NAME	DATE

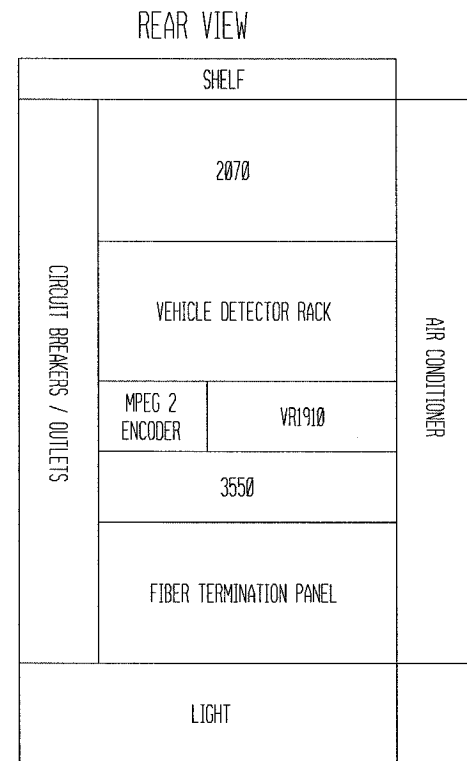
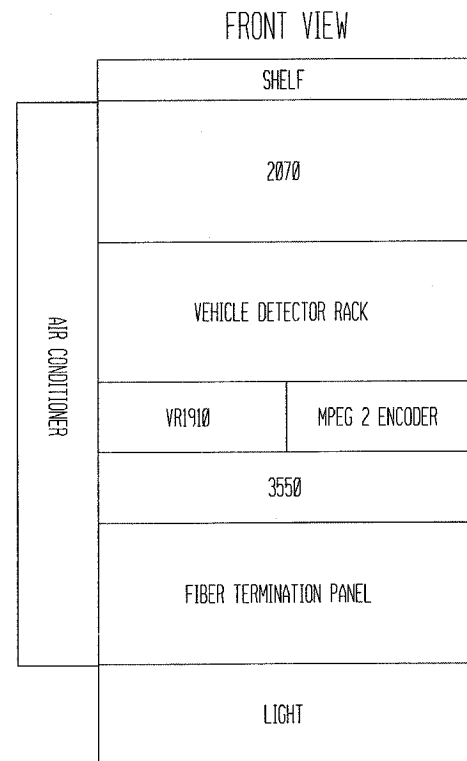
ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: DRAWN BY MAM
 DATE 05/02/05 CHECKED BY CAF

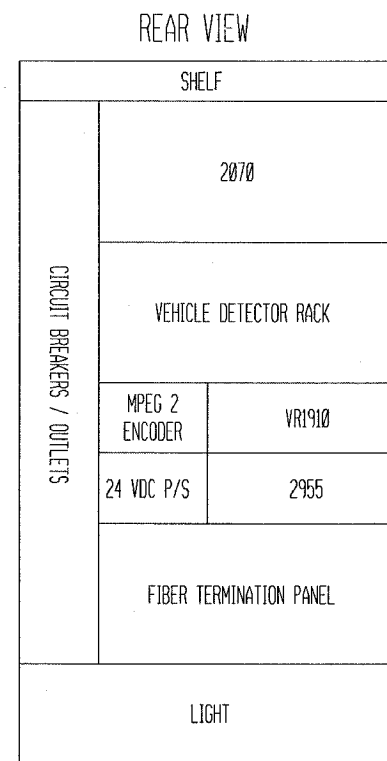
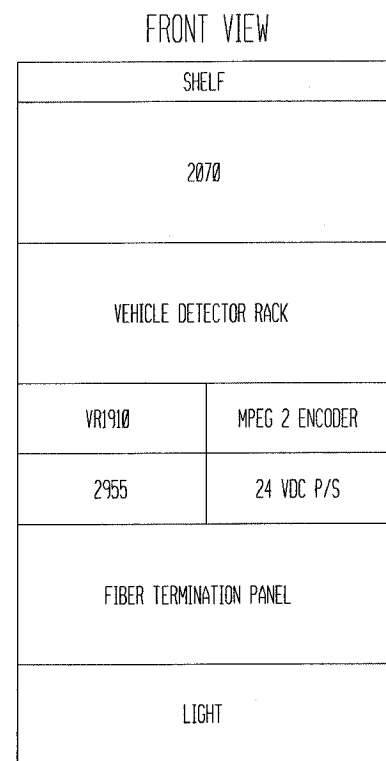
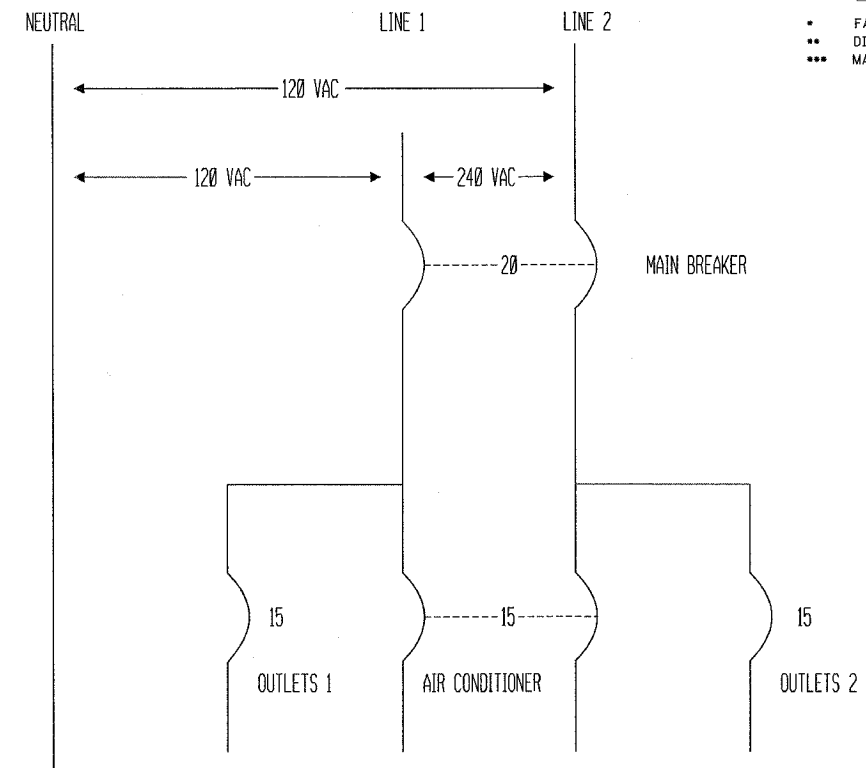
ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION DESIGN
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	25	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT ****	

* FAI 55/70 CONTRACT# 76966
 ** DIST 8 ITS 2006-1
 *** MADISON & ST. CLAIR



NEW FIELD CABINET
MP 8.0

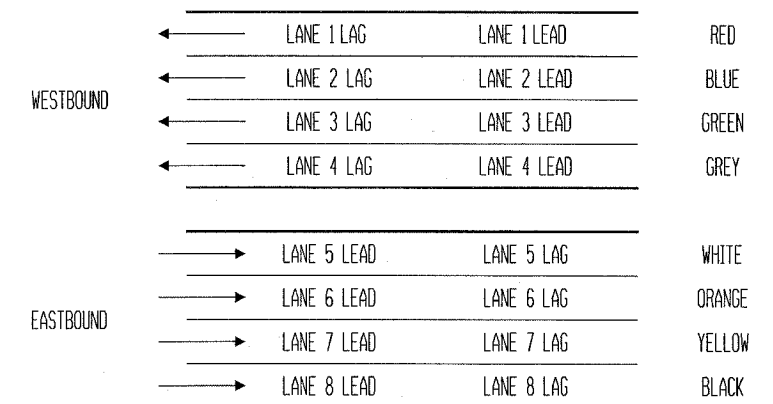


UPGRADED FIELD CABINETS
MP 5.9
MP 7.0
MP 9.1
MP 24.7

CONTROLLER INPUT ASSIGNMENT

- DIGITAL INPUT 01: LANE 1 LEAD
- DIGITAL INPUT 02: LANE 1 LAG
- DIGITAL INPUT 03: LANE 2 LEAD
- DIGITAL INPUT 04: LANE 2 LAG
- DIGITAL INPUT 05: LANE 3 LEAD
- DIGITAL INPUT 06: LANE 3 LAG
- DIGITAL INPUT 07: LANE 4 LEAD
- DIGITAL INPUT 08: LANE 4 LAG
- DIGITAL INPUT 09: LANE 5 LEAD
- DIGITAL INPUT 10: LANE 5 LAG
- DIGITAL INPUT 11: LANE 6 LEAD
- DIGITAL INPUT 12: LANE 6 LAG
- DIGITAL INPUT 13: LANE 7 LEAD
- DIGITAL INPUT 14: LANE 7 LAG
- DIGITAL INPUT 15: LANE 8 LEAD
- DIGITAL INPUT 16: LANE 8 LAG

MICROLOOP PROBE DESIGNATION



CABINET LAYOUT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 COMMUNICATION SYSTEM
 FAI 55/70
 SECTION DIST 8 ITS 2006-1
 MADISON AND ST. CLAIR COUNTY

SCALE: DATE 05/02/05 DRAWN BY MAM CHECKED BY CAF