

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	:	::	27	1

• DIST 8 ITS 2007-2, 2B  
 •• MADISON AND ST. CLAIR COUNTIES

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

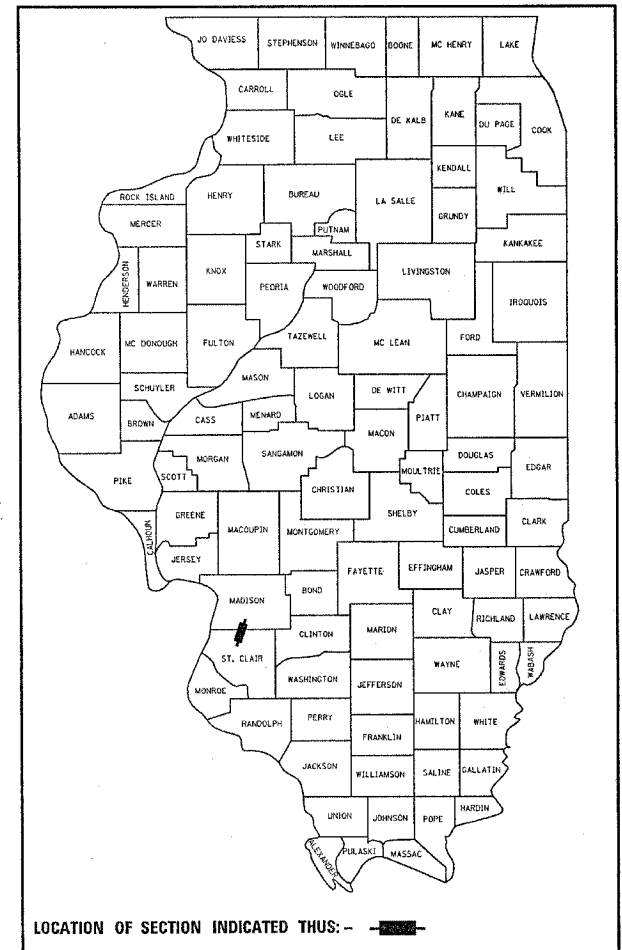
FAI 255 (I-255)  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

**ITS COMMUNICATION, DETECTION AND SURVEILLANCE DEVICES  
 FROM THE DISTRICT 8 TRANSPORTATION MANAGEMENT CENTER  
 TO I-55/70 W. TO I-255 S. TO THE EXIT 24 (COLLINSVILLE) RAMP**

C-98-047-06

PROJECT: CMI-255-6(019)006

D-98-059-06



**INDEX OF SHEETS**

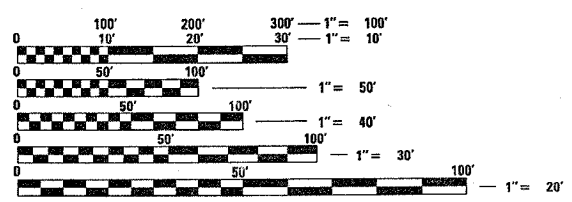
1. TITLE SHEET
2. SUMMARY OF QUANTITIES
3. PLAN SHEET LAYOUT / VOLUME SCHEDULE
4. GENERAL NOTES, LEGEND & PIPE UNDERDRAIN SCHEDULE
- 5 & 6. STORM WATER POLLUTION PREVENTION PLANS (1-2 OF 2)
7. RADAR VEHICLE DETECTION DETAILS
- 8 & 9. SERVICE INSTALLATION AND POLE MOUNTED CCTV DETAIL WITH CAMERA LOWERING DEVICE DETAILS (1 & 2 OF 2)
10. LIGHT POLE FOUNDATION
11. LIGHT TOWER FOUNDATION
- 12-18. ITS PLANS (1-7 OF 7)
19. COMMUNICATION SYSTEM COVER SHEET AND TERMINATION-SPLICES TOTALS & SWITCH SCHEDULE
20. COMMUNICATION CABINET DIAGRAMS
21. SOIL BORINGS

**STANDARDS**

000001-04	280001-02	601001
701001-01	701101-01	701106-01
701400-02		701411-03
702001-05	720021-01	805001
814001	814006	870001-04

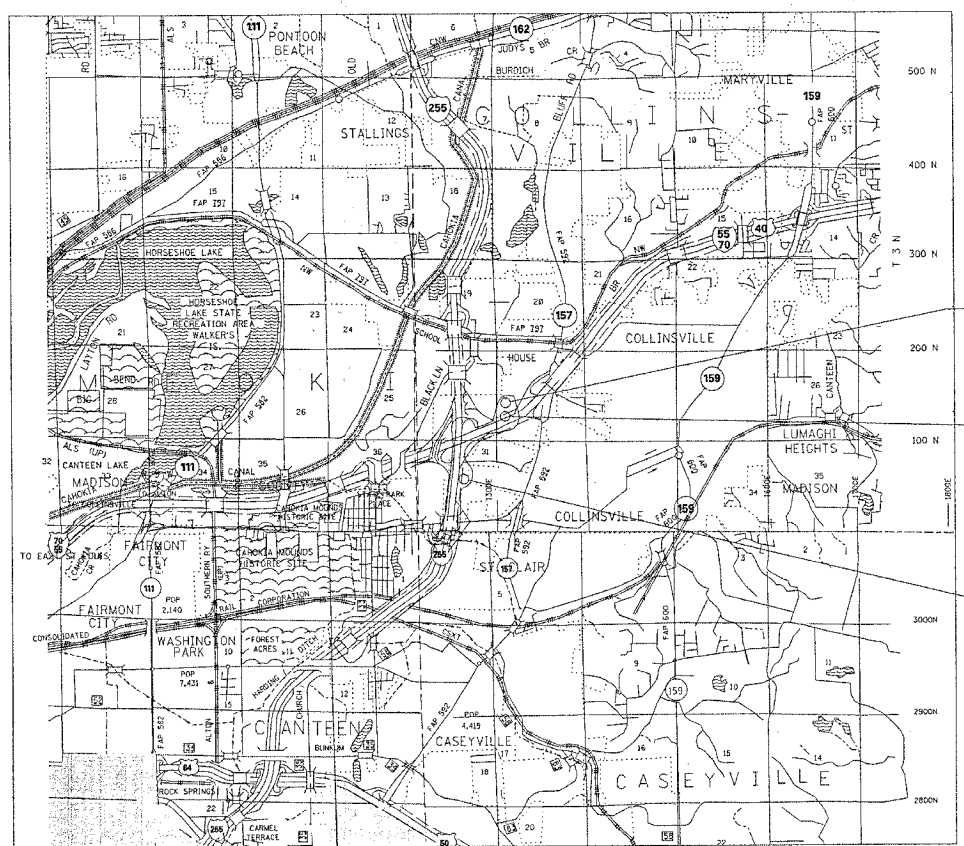
PROJECT ENGINEER: PATTI LEBEAU (618) 346 3179  
 SQUAD LEADER: MICHAEL PRESTON (618) 346 3143  
 LIAISON ENGINEER: BRIAN SNEED (618) 346 3118

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.

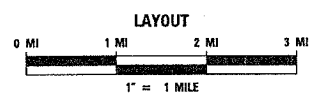
J.U.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123



TMC  
 D8 OFFICE  
 COLLINSVILLE  
 TOWNSHIP

557010.3A.46C  
 557010.3A.31R  
 STA. 438 + 00  
 COLLINSVILLE  
 TOWNSHIP

025523.5A.45C  
 025523.5A.45R  
 STA. 1223 + 30  
 CASEYVILLE  
 TOWNSHIP



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED August 23, 2006

*Mary Janice*  
 DEPUTY DIRECTOR OF HIGHWAYS  
 REGION FIVE ENGINEER

October 13, 2006  
*Mike Lane*  
 ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2006  
*Milton R. Sear*  
 DIRECTOR, DIVISION OF HIGHWAYS

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

CONTRACT NO. 76A19

PLT DATE = 8/21/2006  
 PLT SCALE = 43.500  
 REFERENCE = AREF#

# SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		**	21	2

..DIST. 8 ITS 2007-2, 2B  
 .. MADISON AND ST. CLAIR COUNTIES

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	ST. CLAIR CO. 025523.5A.45C 025523.5A.45R STA. 1229+30	MADISON CO. 557010.3A.46C 557010.3A.31R STA. 488+00	FIBER OPTIC BACKBONE
X0925599	LIGHT TOWER, 80 FT. WITH CAMERA LOWERING SYSTEM	EACH	1		1	
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	113			113
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	113			113
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	113			113
* 25000210	SEEDING, CLASS 2A	ACRE	1.3			1.3
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	126			126
* 28000500	INLET AND PIPE PROTECTION	EACH	3			3
* 66410400	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	100			100
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	3	3	4
67100100	MOBILIZATION	L SUM	1	0.1	0.1	0.8
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	1		1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.2	0.2	0.6
80300100	LOCATING UNDERGROUND CABLE	FOOT	7500			7500
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1		
80801500	WOOD POLE, 25 FT., CLASS 5	EACH	1	1		
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	586	545	41	
8102800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC	FOOT	245	245		
X0323150	JUNCTION BOX, ALUMINUM, ATTACHED TO STRUCTURE, 18" X 18" X 10"	EACH	4	3	1	
81400400	CONCRETE HANDHOLE	EACH	21	1		20
81400600	CONCRETE DOUBLE HANDHOLE	EACH	3	1	1	1
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10,697	495	41	10,161
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	14.3	14.3		
86300305	CONTROLLER CABINET TYPE III, SPECIAL	EACH	1		1	
87000105	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND	FOOT	44	22	22	
87301715	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 6 PAIR	FOOT	44	22	22	
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	33		33	
87800210	CONCRETE FOUNDATION, TYPE D (SPECIAL)	FOOT	7	3.5	3.5	
87900200	DRILL EXISTING HANDHOLE	EACH	2			2
X0322227	CLOSED CIRCUIT TELEVISION CAMERA SYSTEM	EACH	2	1	1	
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12,532			12,532
X0325066	2955 LAYER 2 SWITCH	EACH	1		1	
<del>X0325067</del>	<del>3550 126 LAYER 3 SWITCH</del>	<del>EACH</del>	<del>1</del>			<del>1</del>

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	ST. CLAIR CO. 025523.5A.45C 025523.5A.45R STA. 1229+30	MADISON CO. 557010.3A.46C 557010.3A.31R STA. 488+00	FIBER OPTIC BACKBONE
X0325075	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., FIBERGLASS BULLET RESISTANT	FOOT	365			365
X0325076	WIDE AREA NETWORK	L SUM	1	0.1	0.1	0.8
X0325077	FIBER OPTIC UTILITY MARKER	EACH	101			101
X0325456	3750G-12S LAYER 3 SWITCH	EACH	2	1		1
X0325460	CONTROLLER CABINET TYPE III, SPECIAL (AIR CONDITIONED)	EACH	1	1		
X0325461	GLC-T SFP MODULE	EACH	2		1	1
<del>X0325462</del>	<del>MEDIA CONVERTER</del>	<del>EACH</del>	<del>1</del>			<del>1</del>
X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	2	1	1	
X0325483	SFP-GE-L SFP MODULE	EACH	3	1		2
X0325487	WIRED COMMUNICATION DATA CONVERTER	EACH	2	1	1	
X0325523	500G LAYER 2 SWITCH	EACH	2	1		1
X0325524	GLC-FE-100FX SFP MODULE	EACH	6	2		4
X8100065	CONDUIT IN TRENCH, 4" DIA., PVC TYPE C	FOOT	10,111			10,111
X0325575	CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 40	FOOT	382			382
X0325576	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC SCHEDULE 40	FOOT	435			435
X8305420	LIGHT POLE, STEEL, 45 FT. WITH CAMERA LOWERING SYSTEM	EACH	1		1	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	10		10	
X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	FOOT	12,532			12,532
X8730050	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 3/C COPPER	FOOT	565	565		
X0325592	REMOVE AND RELOCATE STONE RIPRAP	CU YD	2			2

\*SPECIALTY ITEMS

Rev.

PLOT DATE = 8/24/2006  
 FILE NAME = c:\p\projects\ad5586\electrical\rap\rap86.dgn  
 PLOT SCALE = 49.5999 1/1 IN.  
 REFERENCE = \*REF\*



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	21	4
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* FAI 255			CONTRACT# 76A19	
** DIST 8 ITS 2007-2, 2B				
*** 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
	PROPOSED CHANGEABLE MESSAGE SIGN
	PROPOSED VIDEO DETECTION CAMERA
	PROPOSED HIGHWAY ADVISORY RADIO
	PROPOSED RADAR VEHICLE DETECTOR

**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.
- NO OVERNIGHT LANE CLOSURES SHALL BE PERMITTED ON THIS PROJECT.
- 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 AND DRAINAGE STRUCTURES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS CCTV CAMERA SYSTEMS AND VEHICLE DETECTION SYSTEMS. THE COST FOR LOCATING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRENCH AND BACKFILL FOR ELECTRICAL WORK (SEE PIPE UNDERDRAIN SCHEDULE).
- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - AMEREN IP (GAS AND ELECTRIC)
  - AT & T CORPORATION (COMMUNICATIONS)
  - AT & T ILLINOIS (COMMUNICATIONS)
  - CHARTER COMMUNICATIONS, INC. (CABLE TV)
  - CITY OF COLLINSVILLE (WATER AND SANITARY SEWER)
  - VILLAGE OF CASEYVILLE (WATER AND SANITARY SEWER)
  - ILLINOIS AMERICAN WATER CO. (WATER)
  - LIGHT CORE (COMMUNICATIONS)
  - MCLEOD USA TELECOMMUNICATIONS, INC. (COMMUNICATIONS)
  - MEDIACOM (CABLE TV)
  - MOUND PUBLIC WATER AND SEWER DISTRICT (WATER)
  - SOUTHWESTERN ELECTRIC COOPERATIVE, INC. (COMMUNICATIONS)
  - QWEST COMMUNICATIONS (COMMUNICATIONS)
 (MEMBER OF J.U.L.I.E. (800-892-0123) ARE INDICATED BY "\*". 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 AND 618-277-7316 EXT. 104 FOR ST. CLAIR COUNTY
- THE CONTRACTOR SHALL 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.
- THE CONTRACTOR SHALL BE AWARE THAT DURING EARTH WORK NECESSARY TO PERFORM INSTALLATION, SIZABLE CONCRETE DEBRIS MAY BE ENCOUNTERED AND WILL NEED TO BE BROKEN IN PLACE AND SPREAD. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE INSTALLATION OF THAT PARTICULAR EQUIPMENT. REFER TO ARTICLE 202.03 OF THE STANDARD SPECIFICATION FOR CONCRETE BREAKAGE AND REBAR REMOVAL.
- FIELD MEASUREMENTS ARE REQUIRED TO VERIFY DIMENSIONS OF EXISTING STRUCTURES PRIOR TO ORDERING MOUNTING HARDWARE.
- FIBER OPTIC CABLE PULL TENSION WILL BE LIMITED BY PROVIDING JUNCTION BOXES OR HANDHOLES AT INTERVALS NO GREATER THAN 750 FEET.

**PIPE UNDERDRAIN SCHEDULE (FOR INFORMATION, ONLY)**

LOCATION & STATION	PIPE UNDERDRAIN FOOT		CONCRETE HEADWALLS FOR PIPE DRAINS EACH	SHLDR. INLET EACH	MEDIAN INLET EACH	MEDIAN DITCH CHECK EACH
	MEDIAN	RIGHT				
1-255						
1147+00				1		
1155+00	21	10	2			
1160+00	21	10	2			
1165+00	21	10	2			
1200+00					1	1
1210+00					1	1
1220+00					1	1
1225+00					1	1
1237+00					1	
1249+00	19	3	2			
1253+00	18		1			
1258+00	19		1			
1262+00	19	26	2			
1267+50	3	16	2			
1273+00	18	18	2			
1278+00	18	18	2			
1283+00	17	5	2			
1288+00	19	19	2			
1296+50	21	21	2			
RAMP 2	LEFT	RIGHT				
210+00	17		2			
219+00	4					
223+00	4					
TOTALS			26	1	5	3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 GENERAL NOTES, LEGEND, & SPECIFICATIONS  
 FAI 55/70  
 SECTION DIST 8 ITS 2006-2  
 MADISON AND ST. CLAIR COUNTY  
 AND ST. LOUIS, MO  
 DATE 9/22/2006

PLOT DATE = 9/22/2006  
 FILE NAME = c:\projects\electrical\1\sp1-45986a.dgn  
 PLOT SCALE = 49.9992 / IN.  
 REFERENCE = #REF#

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	21	5
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

• FAI 255 CONTRACT# 76A19  
 •• DIST 8 ITS 2007-2, 2B  
 ••• MADISON & ST. CLAIR

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE AREAS OUTSIDE THE CONSTRUCTION LIMITS FOR STAGING, PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES, EXCEPT AS DIRECTED BY THE ENGINEER.
  - (a.) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
  - (b.) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED, IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
  - (c.) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
    - I. PLACE INLET AND PIPE PROTECTION AT LOCATIONS SHOWN ON THE PLANS.
    - II. TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
  - (d.) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
  - (e.) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
  - (f.) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
  - (g.) SEDIMENT COLLECTED DURING CONSTRUCTION ON THE INLET AND PIPE PROTECTION SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR INLET AND PIPE PROTECTION.
  - (h.) THE INLET AND PIPE PROTECTION SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR INLET AND PIPE PROTECTION.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION SEDED AREAS SHALL BE PROPERLY MAINTAINED UNTIL ALL DISTURBED PROPOSED AREAS ARE SEEDED AND RE-ESTABLISHED.
2. ONCE PERMANANT SEEDING, AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, INLET AND PIPE PROTECTION SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEDED.

MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I.D.O.T. FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

1. ANY GROUND AREA THAT THE CONTRACTOR DISTURBS SHOULD BE SEEDED AT THE END OF EACH WEEK WITH CLASS 7 TEMPORARY EROSION CONTROL SEEDING W/MULCH FOR PERMANENT SEEDING USE CLASS 2A ROADSIDE MIXTURE ALONG THE INTERSTATE.
2. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.
3. MULCH METHOD 1 AS APPLIED TO TEMPORARY SEEDING SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS. MULCH WILL NOT BE PAID FOR SEPARATLY BUT SHALL BE INCLUDED IN THE PRICE FOR TEMPORARY SEEDING.
4. CONSTRUCT INLET AND PIPE PROTECTION AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.
5. ALL INLET AND PIPE PROTECTION PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

LEGEND



INLET AND PIPE PROTECTION- FILTER FABRIC, AGGREGATES

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

TEMPORARY EROSION CONTROL SEEDING LIMITS

I-255		NB I-255 RAMP 2 TO EB I-55/70		EB I-55/70	
FROM STA.	TO STA.	FROM STA.	TO STA.	FROM STA.	TO STA.
1185+55	1233+43	200+00	232+27	479+00	490+00
1236+68	1244+08				
1245+74	1291+26				
1294+53	1294+89				

*Mary C. Jamis*  
 DEPUTY DIRECTOR OF HIGHWAYS  
 REGION FIVE ENGINEER

8-23-06  
 DATE

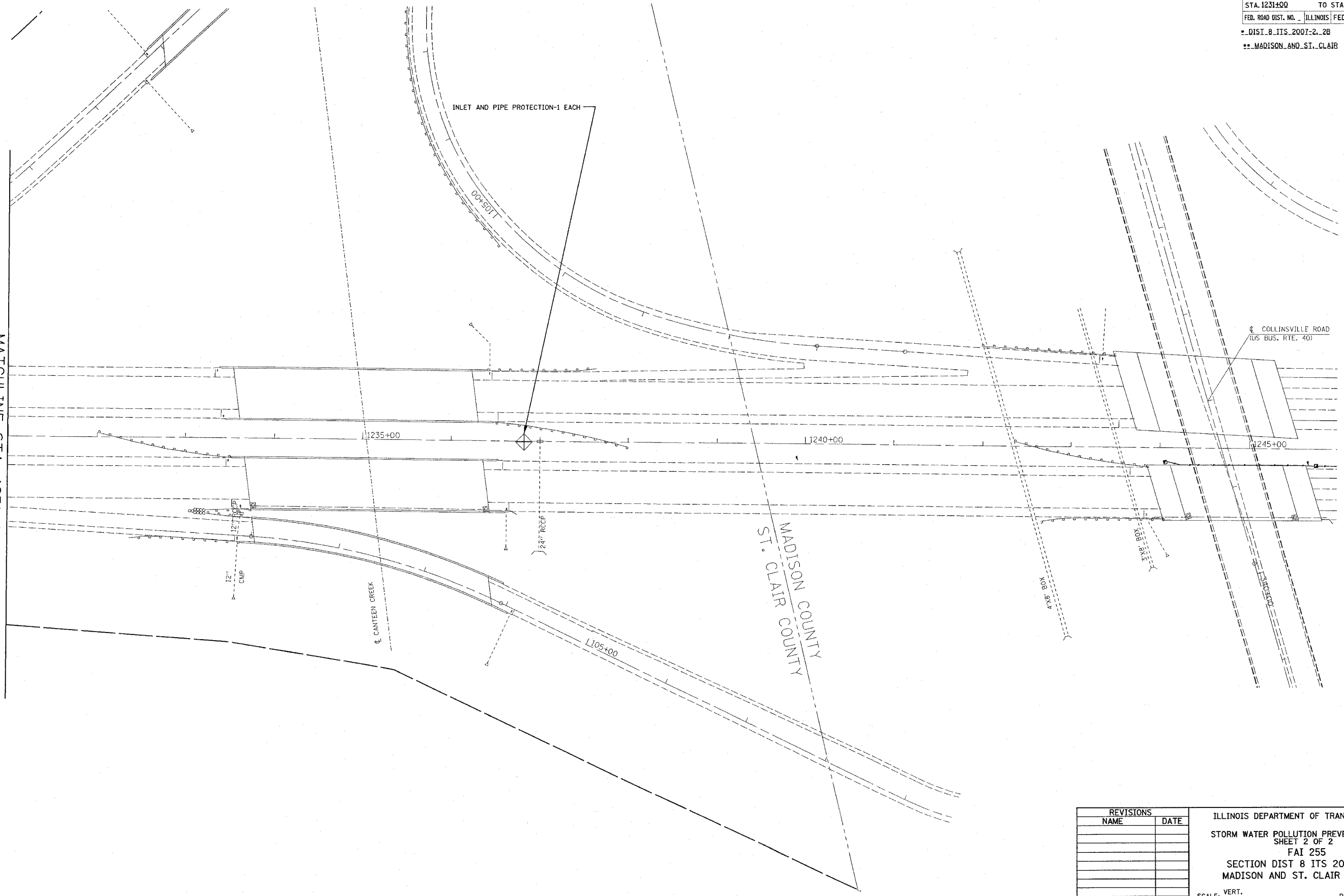
NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION STORM WATER POLLUTION PREVENTION PLAN SHEET 1 OF 3
NAME	DATE	
		FAI 55/70 SECTION DIST 8 ITS 2006-2 MADISON AND ST. CLAIR COUNTY AND ST. LOUIS, MO  DATE 8/21/2006

PLOT DATE = 8/21/2006  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	•	**	21	6
STA. 1231+00		TO STA. 1236+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• DIST. 8 ITS 2007-2, 2B				
** MADISON AND ST. CLAIR				

MATCHLINE STA. 1231+00



PLOT DATE = 8/22/2008  
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REVISIONS	
NAME	DATE

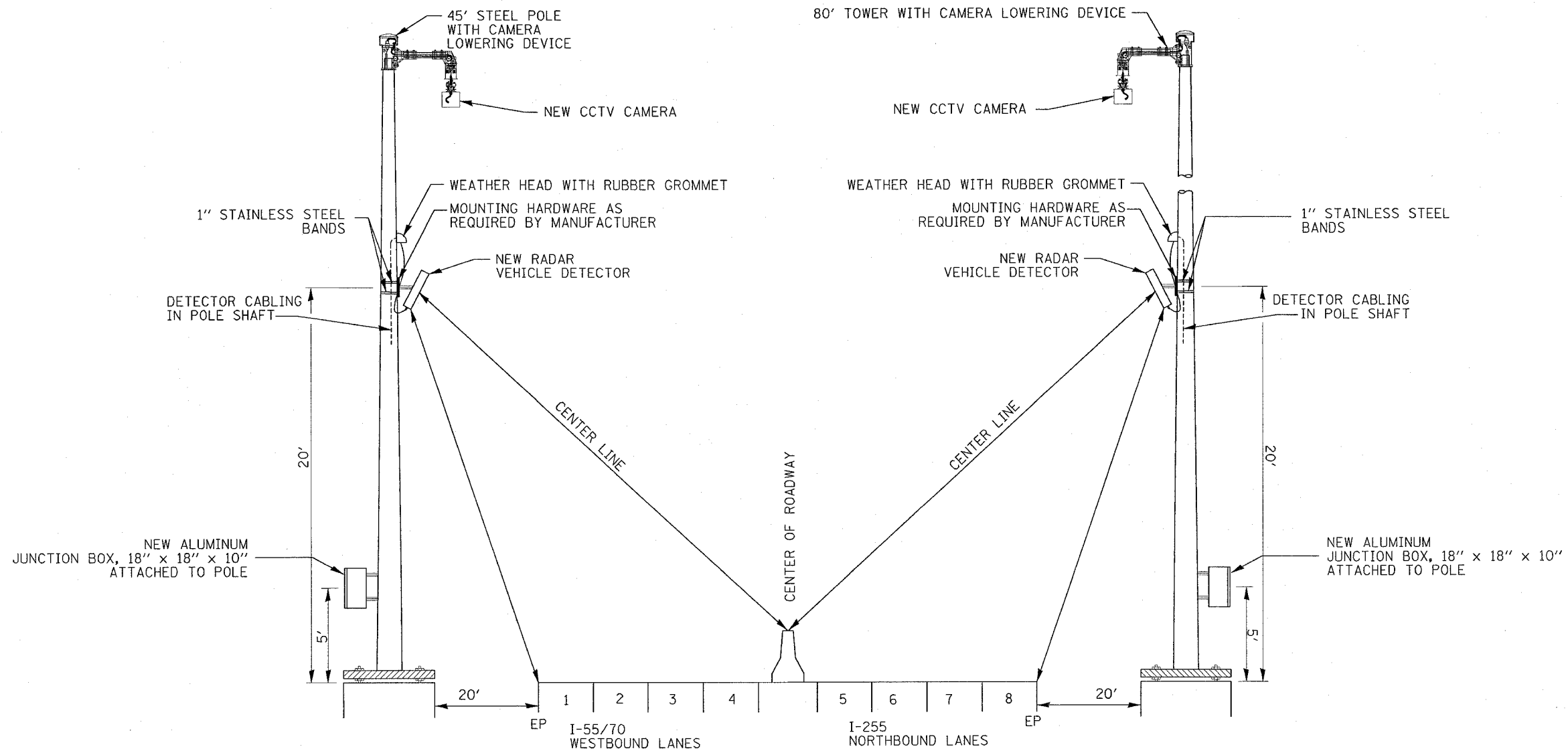
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STORM WATER POLLUTION PREVENTION PLAN  
 SHEET 2 OF 2  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

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

• FAI 255 CONTRACT# 76A19  
 •• DIST 8 ITS 2007-2, 2B  
 ••• MADISON & ST. CLAIR



DETAIL  
 RADAR VEHICLE DETECTOR  
 NOT TO SCALE

- LOCATIONS:
- 025523.5A.45C  
025523.5A.45R-80' POLE
  - 557010.3A.46C  
557010.3A.31R-45' POLE

- NOTE:
- LANE NUMBERS ARE ARBITRARY
  - LOCATION 557010.3A.31R AND 025523.5A.45R HAS 4 LANES PER DIRECTION

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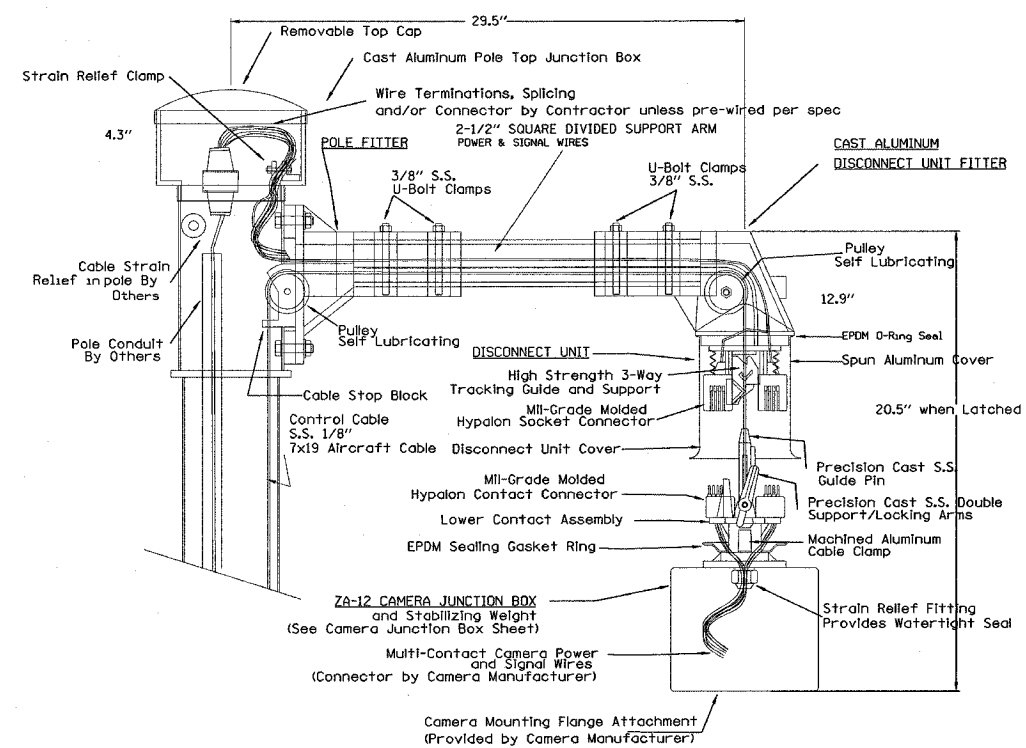
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 RADAR VEHICLE  
 DETECTION DETAIL

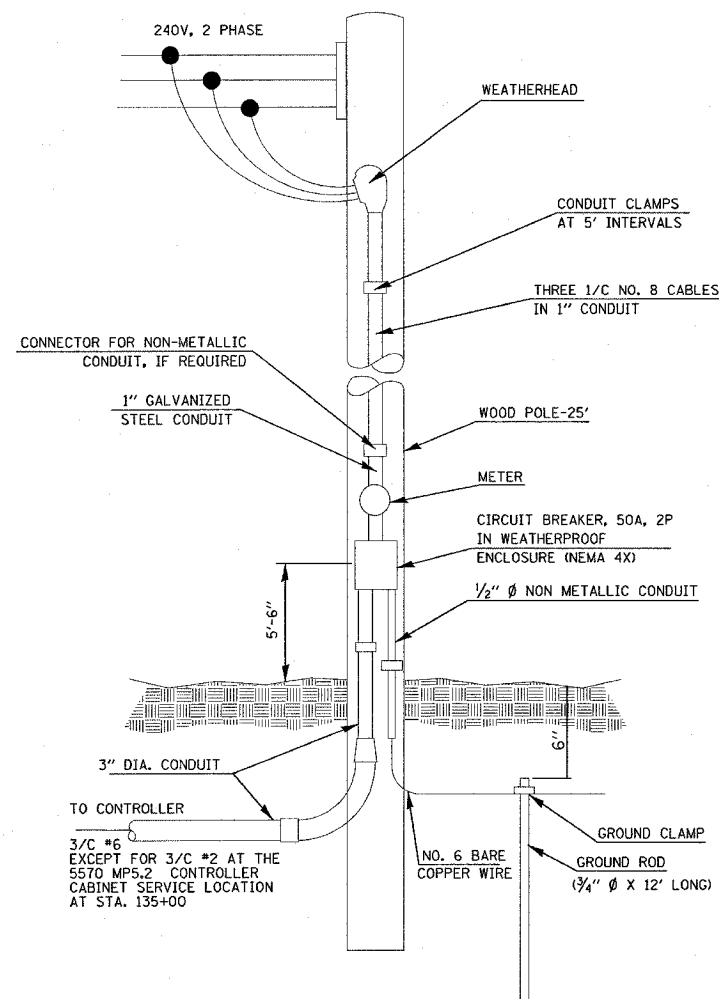
FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

DATE 9/22/2006

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	••	•••	21	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• FAI 255		CONTRACT# 76A19		
•• DIST 8 ITS 2007-2, 2B				
••• MADISON & ST. CLAIR				



Camera Lowering Device for Pole Mounting Multi-Function Surveillance Cameras CLDMG2-HYP-045-ST-D & CLDMG2-HYP-080-ST-D



SERVICE INSTALLATION, TYPE A FOR MP025523.5 INSTALLATION, ONLY NOT TO SCALE

PLOT DATE = 9/22/2006  
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REVISIONS	
NAME	DATE

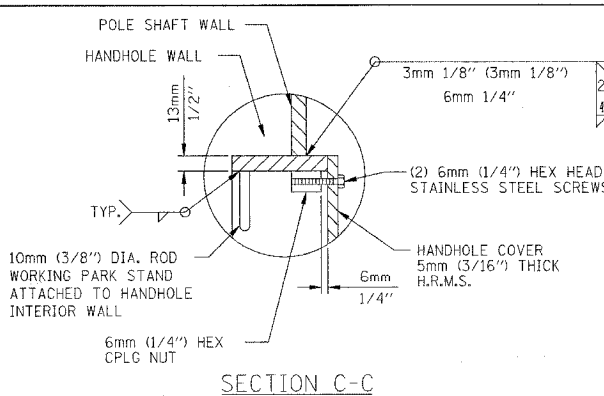
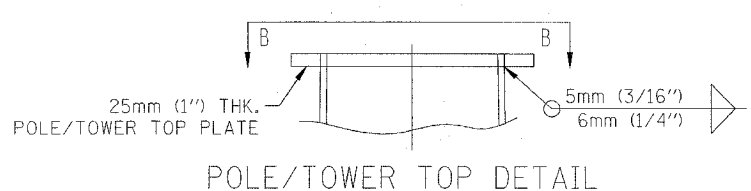
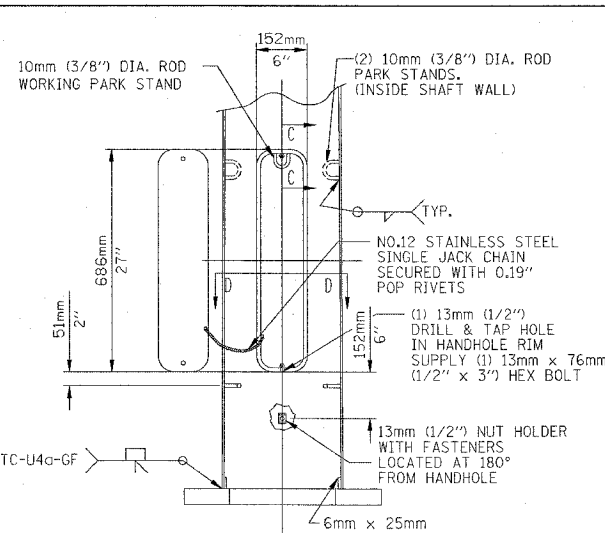
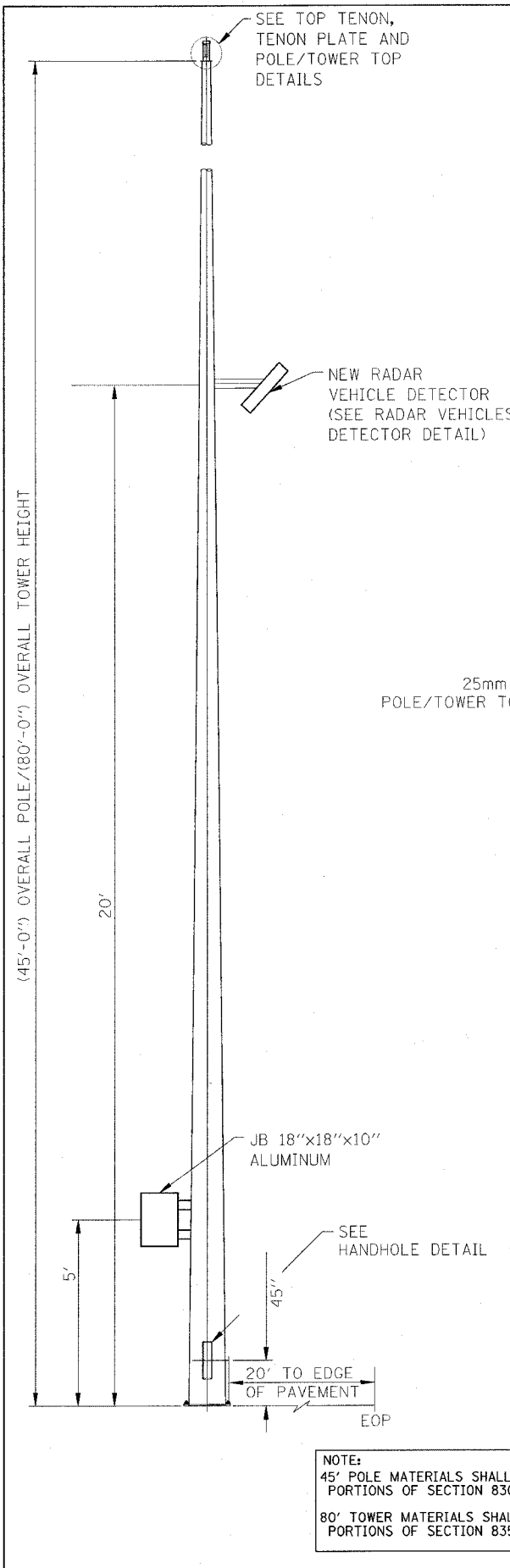
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SERVICE INSTALLATION AND  
 POLE MOUNTED CCTV DETAIL WITH  
 CAMERA LOWERING DEVICE (SHEET 1 OF 2)  
 DETAILS  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

DATE 9/22/2006

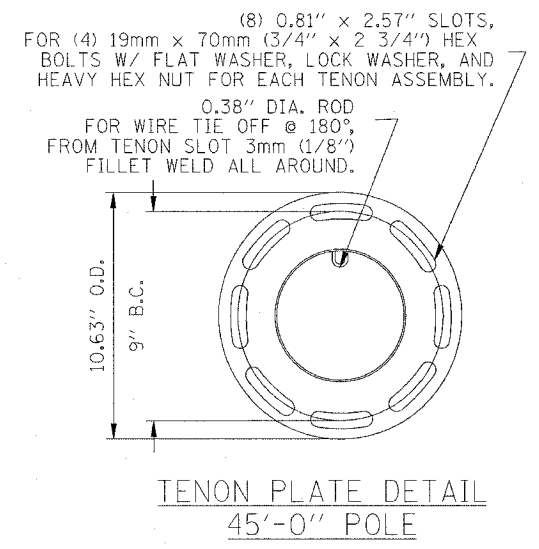
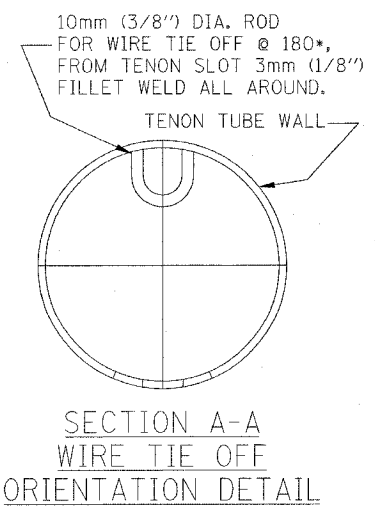
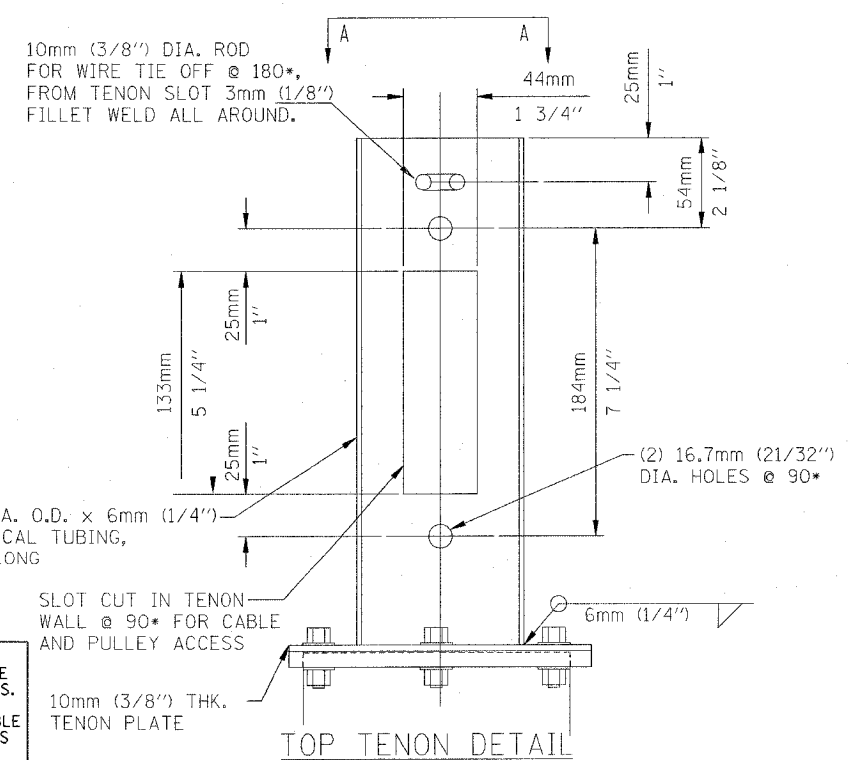
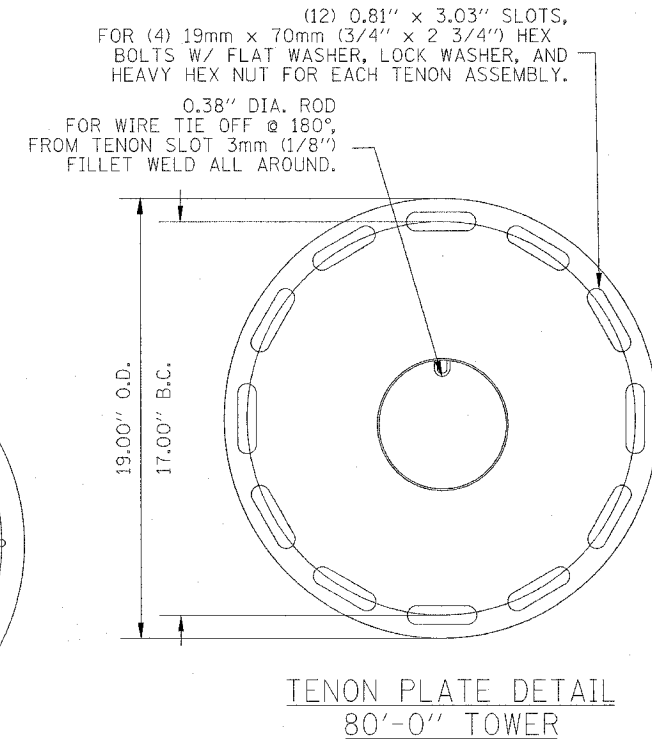
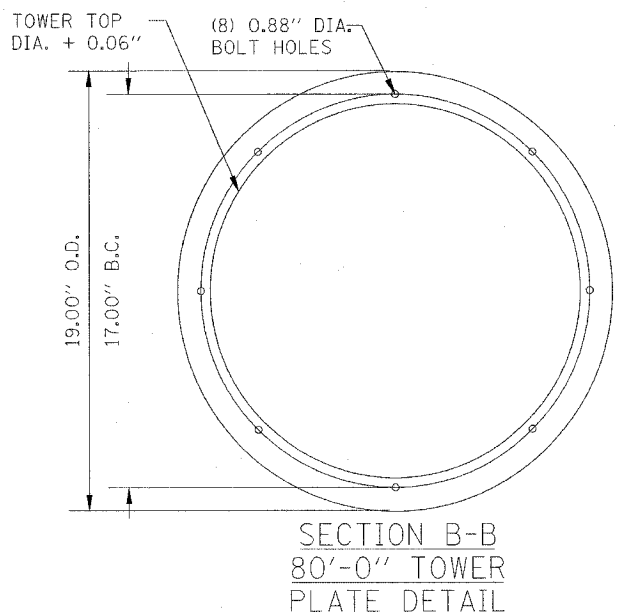
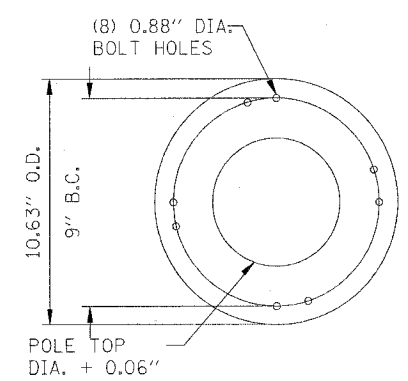


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	21	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FAI 255 CONTRACT# 76A19  
 DIST 8 ITS 2007-2, 2B  
 MADISON & ST. CLAIR



SECTION D-D



NOTE:  
 45' POLE MATERIALS SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 830 OF THE STANDARD SPECIFICATIONS.  
 80' TOWER MATERIALS SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 835 OF THE STANDARD SPECIFICATIONS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 POLE MOUNTED CCTV DETAIL WITH  
 CAMERA LOWERING DEVICE (SHEET 2 OF 2)

FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

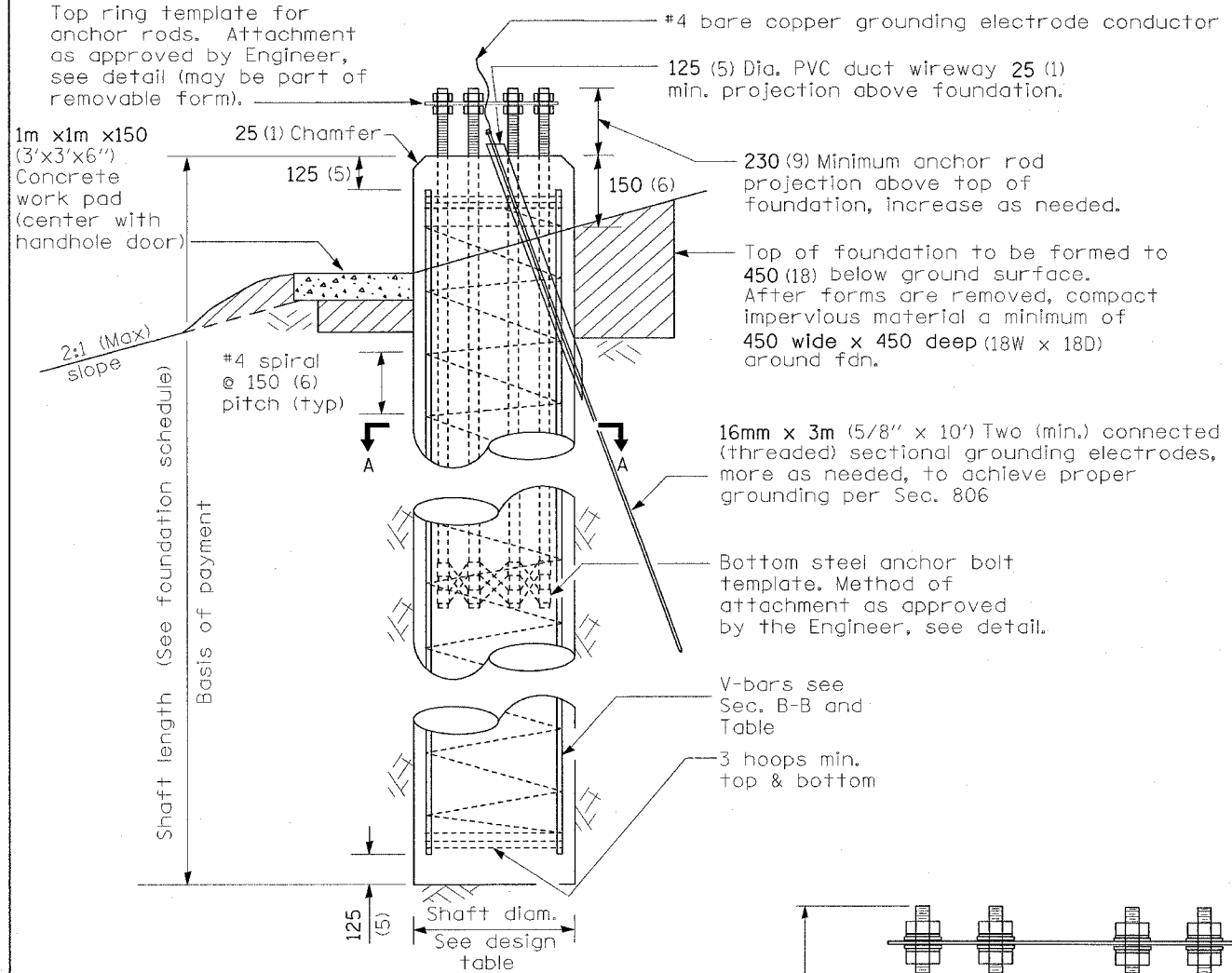
DATE 9/22/2006

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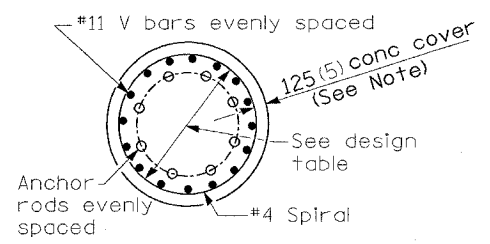
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	**	***	21	11
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

• FAI 255 CONTRACT # 76A19  
 •• DIST 8 ITS 2007-2, 2B  
 ••• MADISON & ST. CLAIR

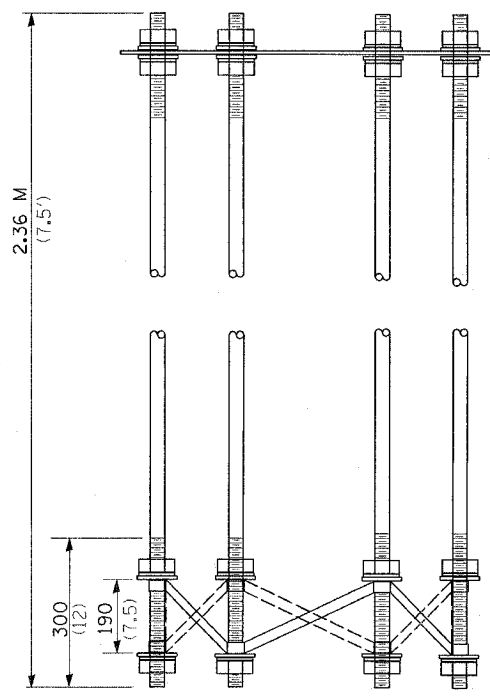


TOWER NUMBER	STATION	EP OFFSET (FT.)	SHAFT LENGTH (FT.)
025523.5	1229+30	20	80

**FOUNDATION ELEVATION**

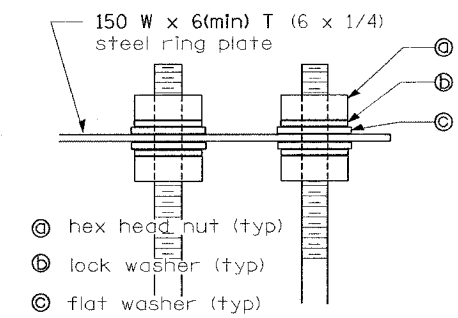


**SECTION A-A**

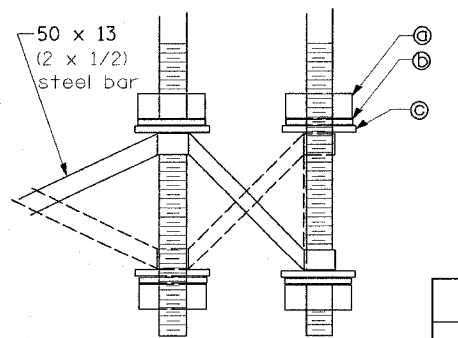


**ANCHOR ROD CAGE**

TOWER HEIGHT (ft)	ANCHOR ROD DIAM. (MIN) (in)	ROD CIRCLE DIAM. (MIN) (in)	TOWER BASE DIAM. (MIN) (in)	DRILLED SHAFT DIAM. (in)	V Bar # 11 NUMBER (each)
80	1.5	30	21	48	14
90	1.5	30	21	48	14
100	1.5	30	21	48	14
110	1.5	30	21	48	14
120	1.75	36	26	54	18
130	1.75	36	28	54	18
140	1.75	36	28	54	18
150	2.25	38	30	60	21
160	2.25	38	32	60	21



**ANCHOR ROD CAGE TOP**



**ANCHOR ROD CAGE BOTTOM**

SOIL CONSISTENCY	AVERAGE STRENGTH (Qu in tsf)	LIGHT TOWER HEIGHT (feet)									
		80	90	100	110	120	130	140	150	160	
Cohesive	SOFT	< 0.5	20.4	21.5	22.5	23.6	25.0	26.1	27.2	28.5	29.8
	MEDIUM	0.5 to 1	16.8	17.5	18.3	19.0	20.3	21.1	21.8	23.1	24.0
	STIFF	1 to 2	14.3	14.8	15.4	15.9	17.1	17.6	18.1	19.3	19.9
	VERY STIFF	2 to 4	12.6	13.0	13.3	13.7	14.8	15.2	15.6	16.7	17.1
Granular	HARD	> 4	11.4	11.6	11.9	12.2	13.2	13.5	13.8	14.9	15.2
		(N in BLOWS/FT.)									
	VERY LOOSE	< 5	16.4	17.1	17.8	18.5	18.9	19.6	20.2	20.7	21.4
	LOOSE	5 to 10	15.0	15.6	16.2	16.8	17.3	17.9	18.4	18.9	19.5
	MEDIUM	10 to 25	14.3	14.9	15.5	16.0	16.4	17.0	17.5	17.9	18.5
	DENSE	25 to 50	13.6	14.1	14.6	15.1	15.6	16.1	16.5	16.9	17.5
VERY DENSE	> 50	12.9	13.4	13.9	14.4	14.8	15.3	15.7	16.1	16.6	

**GENERAL NOTES**

- 1) The shaft length(s) provided in the foundation schedule are based on the soil borings included in the plans. If different soils are encountered, the engineer shall be notified to provide a revised length.
- 2) Use 8 rods min., see design table for minimum anchor rod diameter. Anchor rod quantity, diameter, and length shall be determined by the approved drawings furnished by pole manufacturer.
- 3) All foundation reinforcement steel to be epoxy coated. Use #11 vertical bars and #4 spiral reinforcement - see design table.
- 4) The cost of reinforcing is incidental to the foundation.
- 5) Steel anchor bolt forms shall not be removed for a minimum of 3 days after concrete is poured and the tower shall not be set for a minimum of 7 days or as approved by the Engineer.
- 6) Coordinate bolt circle diameter of the tower with the bolt circle diameter of the anchor bolt cage.
- 7) Foundation shall be in accordance with applicable portions of Section 516 and 837 of the Standard Specifications.
- 8) Foundation shall be poured monolithically with no construction joints allowed.
- 9) Place grounding electrodes in an access well, if there is a conflict in using the wireway window.
- 10) Diameters listed in the tables are based upon a 125 (5") concrete cover. The minimum cover is 75 (3") in a dry shaft excavation or 100 (4") in a wet hole. When rock is encountered, a 125 (5") cover is required against soil to allow a 50 (2") cover against rock.

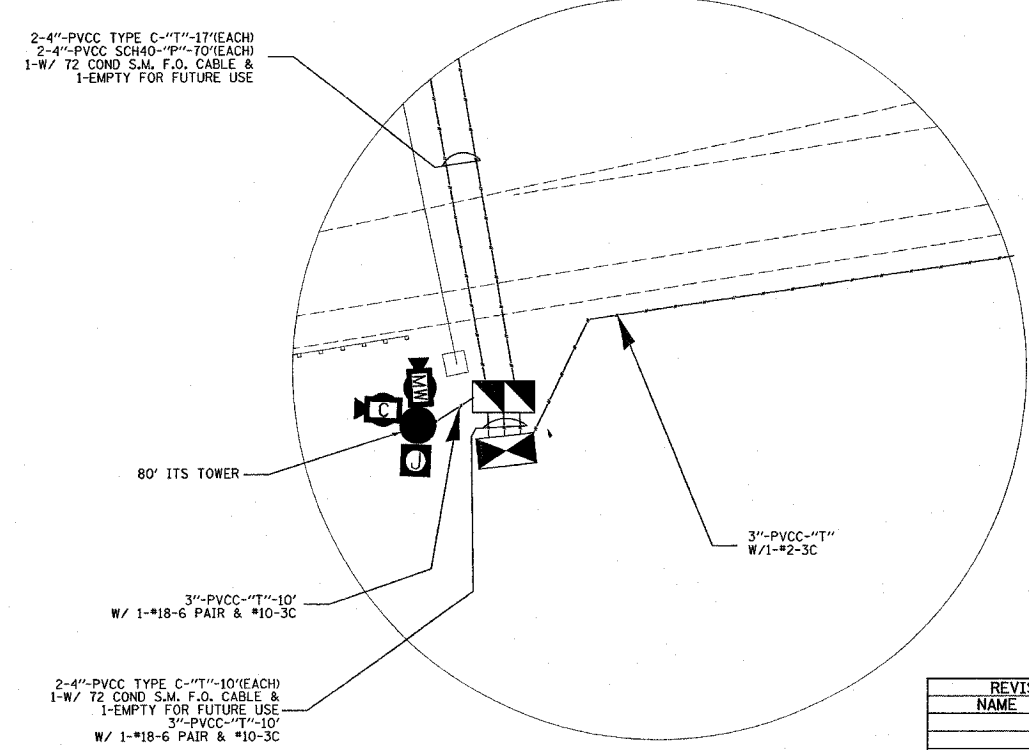
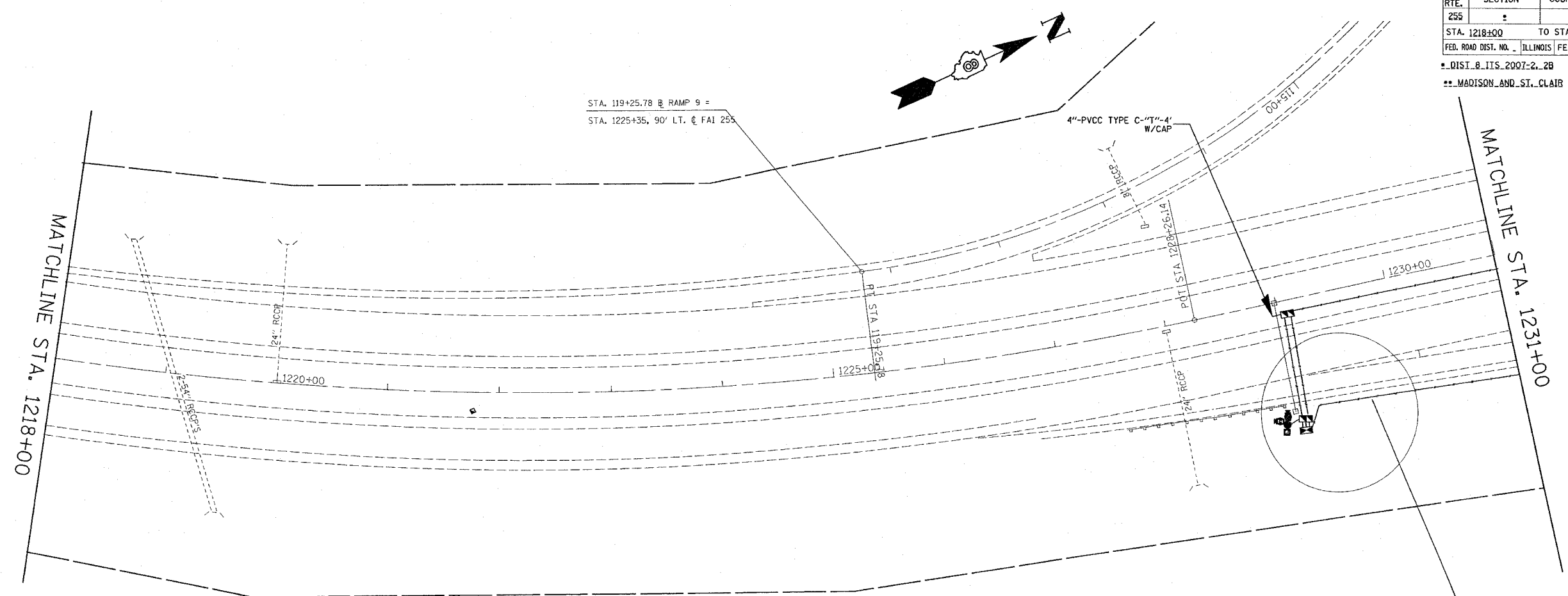
All dimensions are in millimeters (inches) unless otherwise shown.

DATE	REVISIONS
	Corrected 4/12/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHT TOWER FOUNDATION  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

DATE = 9/22/2006  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 1218±00 TO STA. 1231±00		ILLINOIS FED. AID PROJECT		
* DIST. 8 ITS 2007-2.2B				
** MADISON AND ST. CLAIR				



2-4"-PVCC TYPE C-"T"-17'(EACH)  
 2-4"-PVCC SCH40-"P"-70'(EACH)  
 1-W/ T2 COND S.M. F.O. CABLE &  
 1-EMPTY FOR FUTURE USE

2-4"-PVCC TYPE C-"T"-10'(EACH)  
 1-W/ T2 COND S.M. F.O. CABLE &  
 1-EMPTY FOR FUTURE USE  
 3"-PVCC-"T"-10'  
 W/ 1-#18-6 PAIR & #10-3C

SHEET 1 OF 7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ITS PLAN**  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

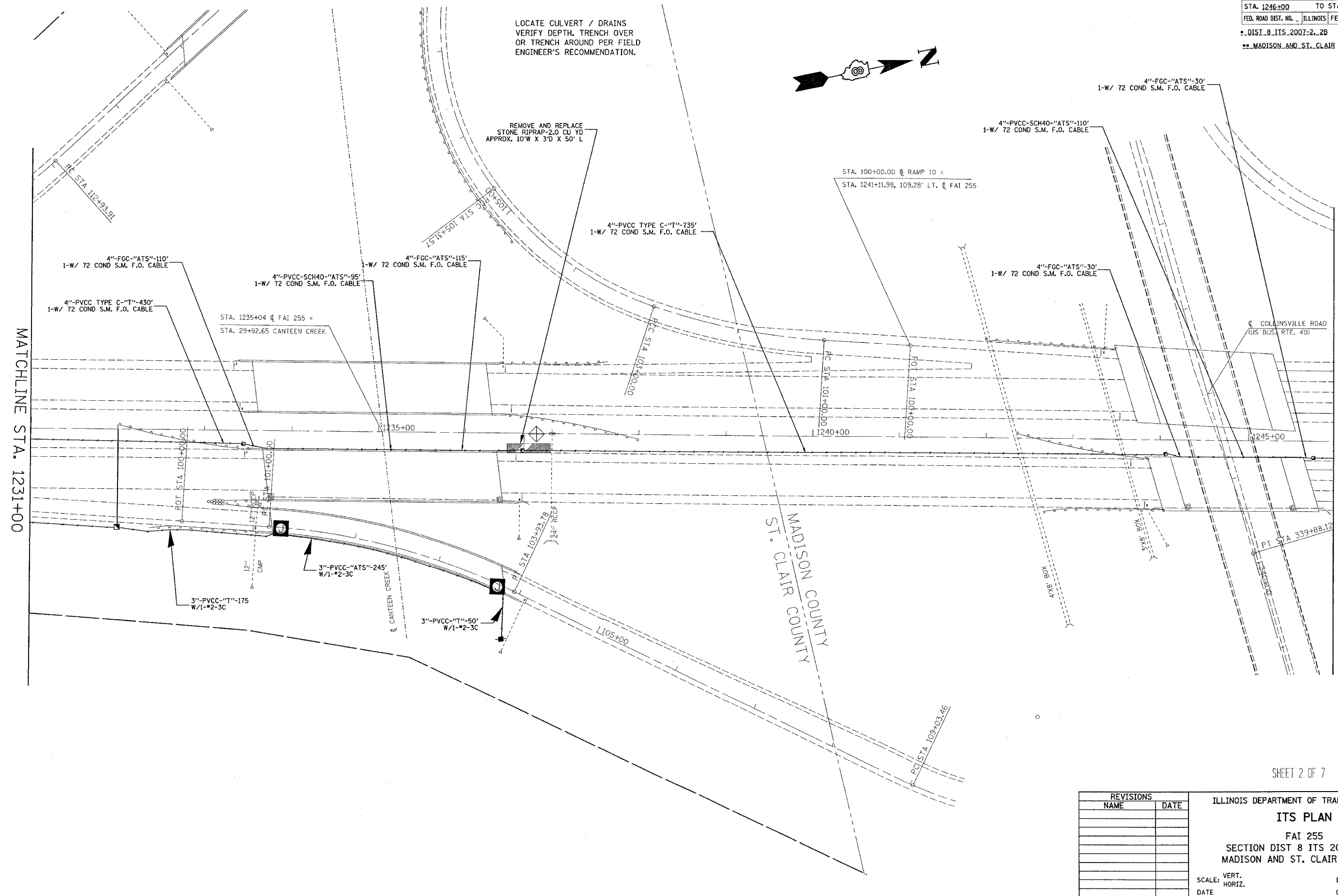
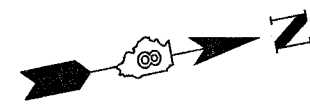
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 DRAWN BY \_\_\_\_\_  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		##	21	13

STA. 1246+00 TO STA. 1231+00  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

01SI.8.ITS.2007-2.2B  
 MADISON AND ST. CLAIR



MATCHLINE STA. 1231+00

MATCHLINE STA. 1246+00

SHEET 2 OF 7

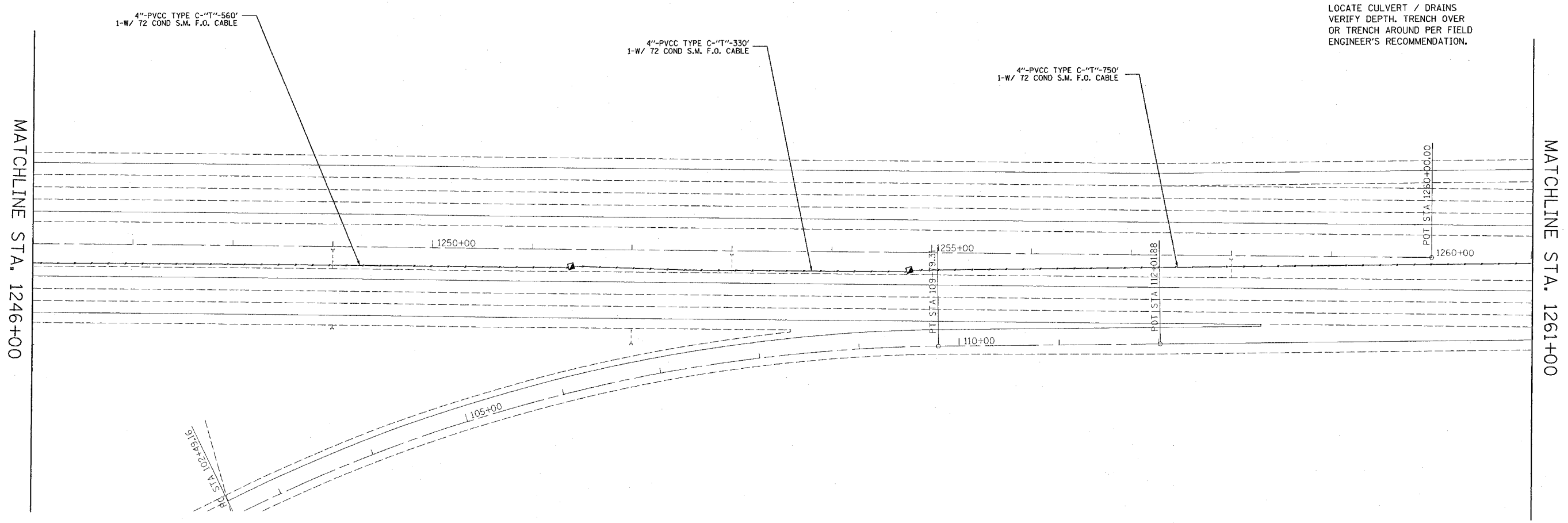
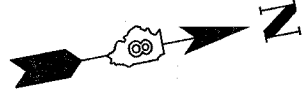
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		ITS PLAN	
		FAI 255	
		SECTION DIST 8 ITS 2007-2, 2B	
		MADISON AND ST. CLAIR COUNTIES	
		SCALE: VERT. _____	DRAWN BY _____
		HORIZ. _____	CHECKED BY _____
		DATE _____	

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		**	21	14

STA. 1261+00 TO STA. 1246+00  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

\* DIST. 8 ITS 2007-2, 2B  
 \*\* MADISON AND ST. CLAIR



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

MATCHLINE STA. 1246+00

MATCHLINE STA. 1261+00

SHEET 3 OF 7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ITS PLAN**  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

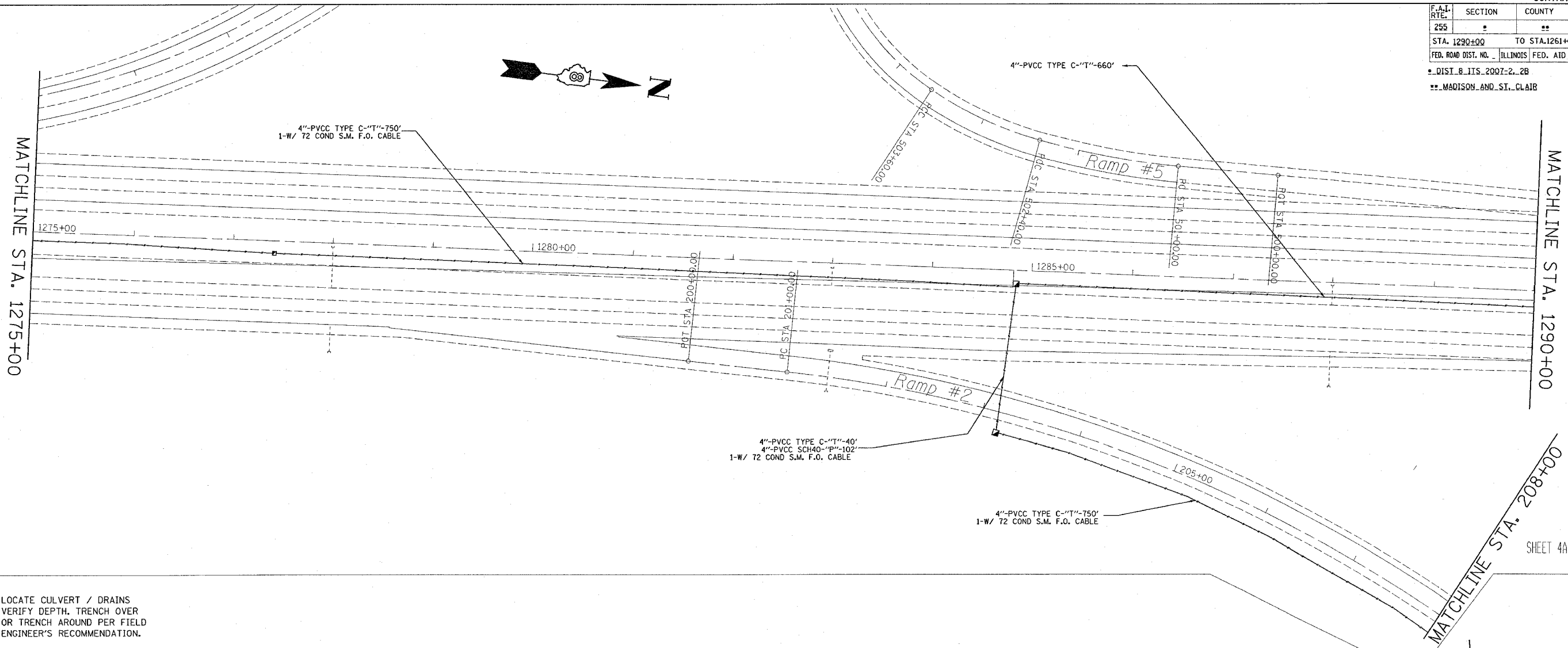
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DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
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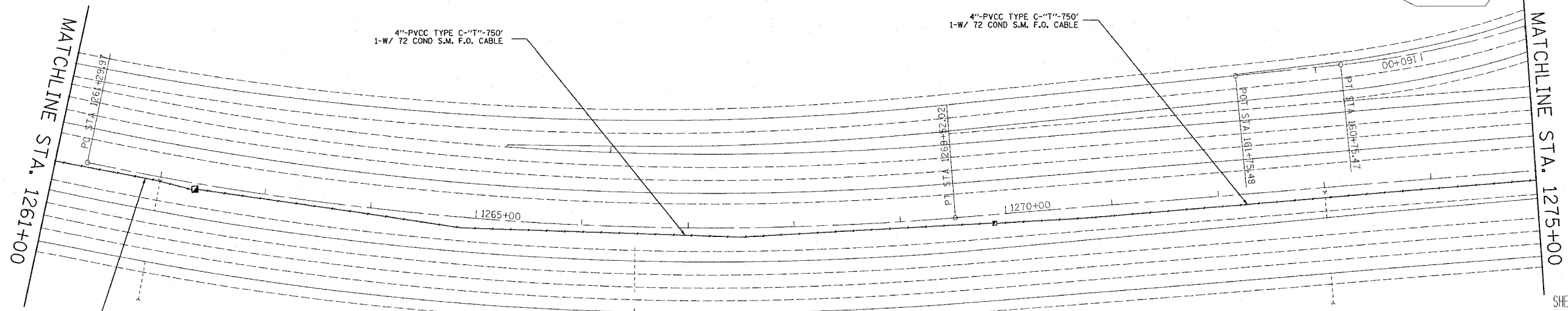
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		**	21	15
STA. 1290+00		TO STA. 1261+00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

• DIST. 8 ITS 2007-2, 2B  
 \*\* MADISON AND ST. CLAIR



SHEET 4A OF 7

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



SHEET 4B OF 7

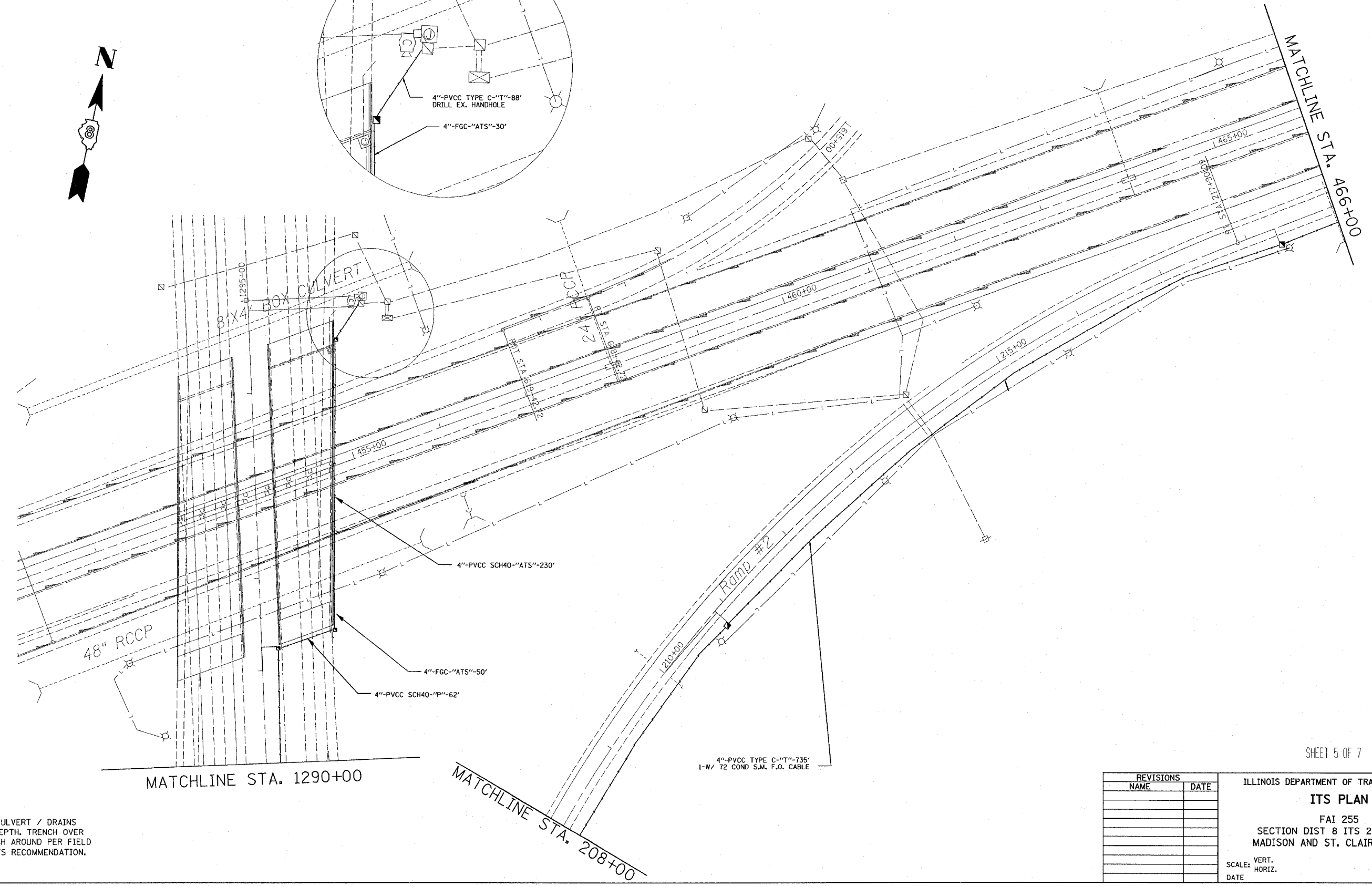
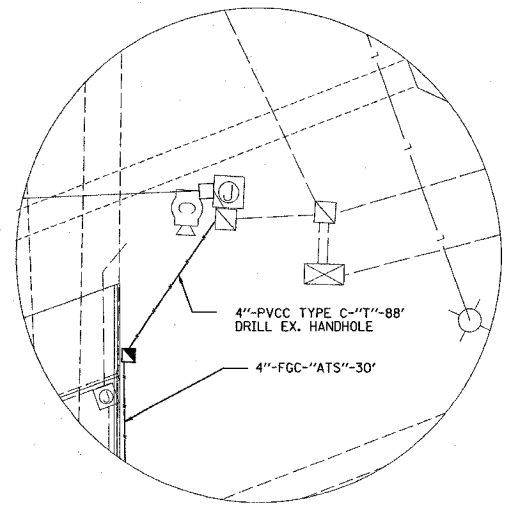
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ITS PLAN**  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 9/22/2006  
 FILE NAME = c:\projects\electrical\itsplan\itsplan.dgn  
 PLOTTER = HP DesignJet 500 / IN  
 PREFERENCE = REF

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	*	**	21	16
STA. 466+00(1-55/70) TO STA. 1290+00(1-255)				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* DIST. 8 ITS 2007-2, 2B				
** MADISON AND ST. CLAIR				



MATCHLINE STA. 1290+00

MATCHLINE STA. 208+00

4" PVCC TYPE C-'T'-735'  
1-W/ 72 COND S.M. F.O. CABLE

SHEET 5 OF 7

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ITS PLAN**  
FAI 255  
SECTION DIST 8 ITS 2007-2, 2B  
MADISON AND ST. CLAIR COUNTIES

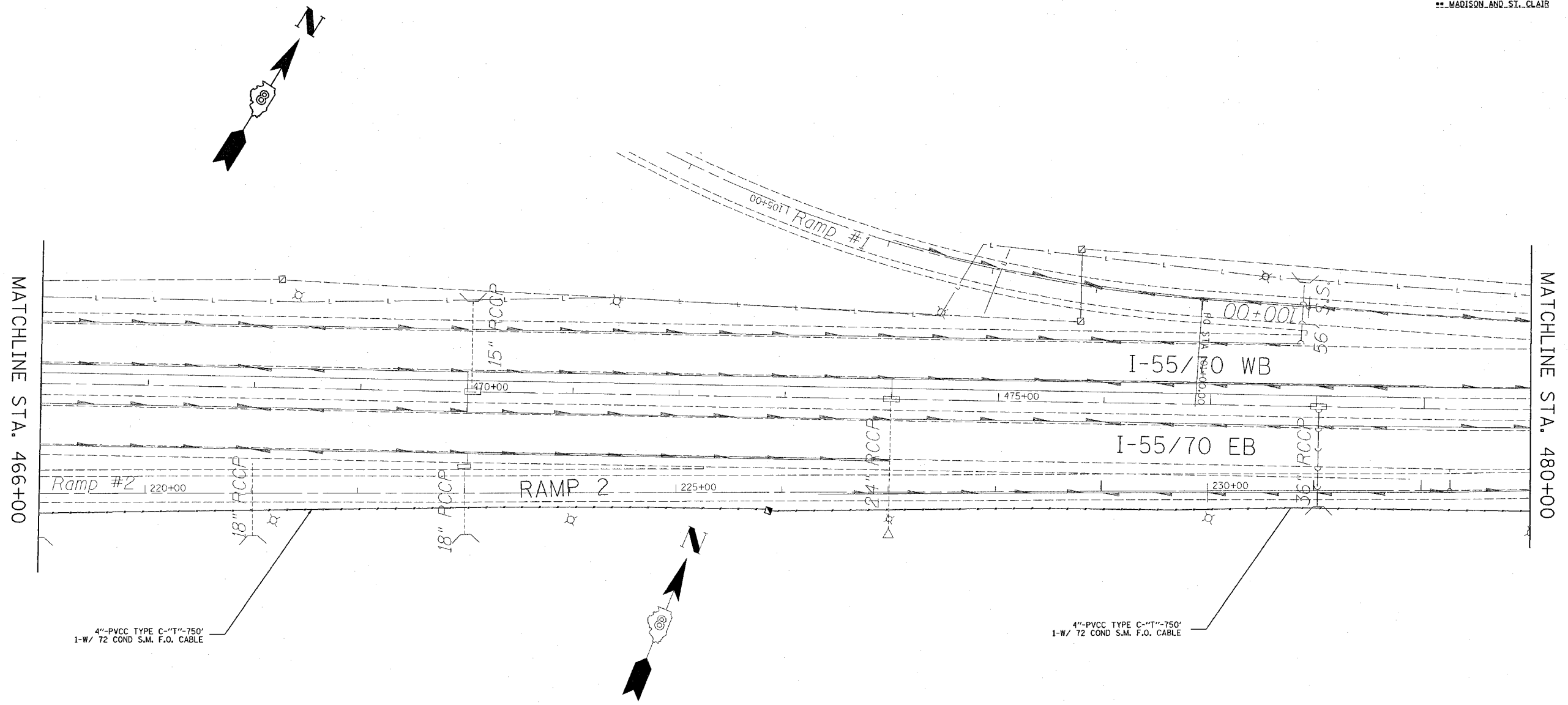
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HORIZ. \_\_\_\_\_  
DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

PLOT DATE = 9/22/2006  
PLOT SCALE = 1" = 50'-0" / IN.  
REFERENCE = #REF#



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		**	21	17
STA. 480+00		TO STA. 466+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

..DIST. 8 ITS 2007-2..2B  
 ..MADISON AND ST. CLAIR



4"-PVCC TYPE C-"T"-750'  
 1-W/ 72 COND S.M. F.O. CABLE

4"-PVCC TYPE C-"T"-750'  
 1-W/ 72 COND S.M. F.O. CABLE

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

PLOT DATE = 9/22/2006  
 FILE NAME = c:\projects\76a19\electrical\itsplan8598a.dgn  
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 REFERENCE = NONE

SHEET 6 OF 7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ITS PLAN**  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

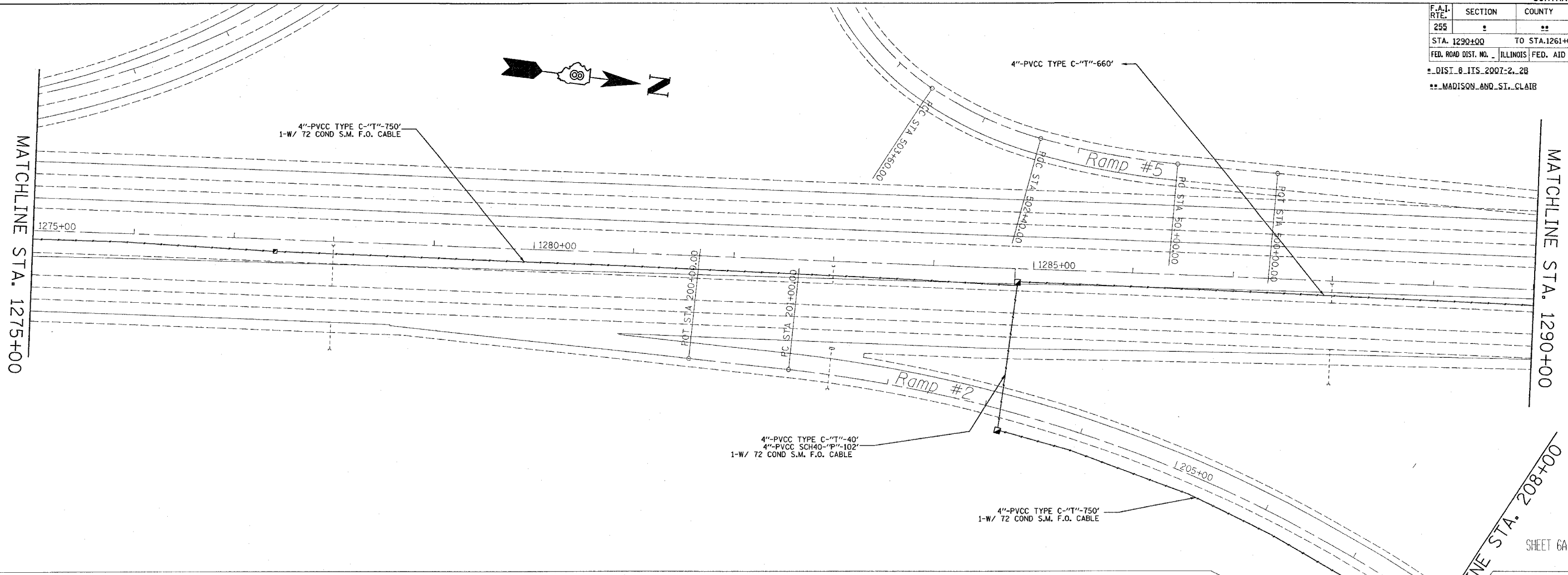
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DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		**	21	18

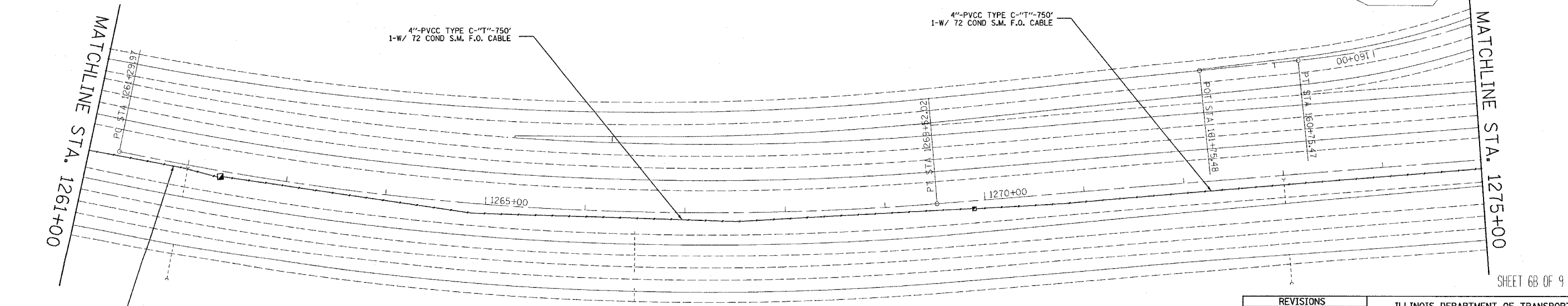
STA. 1290+00 TO STA. 1261+00  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

..DIST. 8 ITS 2007-2..2B  
 ..MADISON AND ST. CLAIR



SHEET 6A OF 9

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



SHEET 6B OF 9

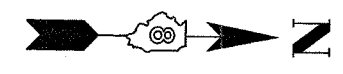
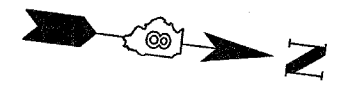
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ITS PLAN**  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 8/21/2008  
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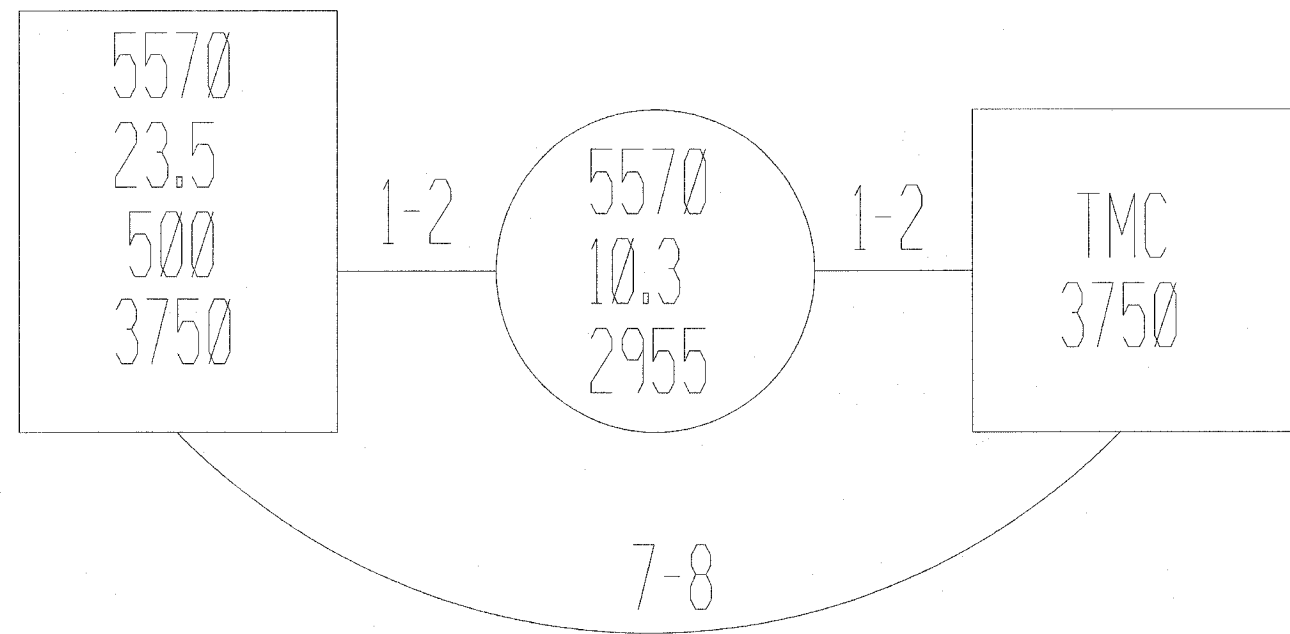
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	21	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* FAI 255 CONTRACT# 76A19  
 \*\* DIST 8 ITS 2007-2, 2B  
 \*\*\* MADISON & ST. CLAIR

ODD #FIBER TO THE NORTH →

← EVEN #FIBER TO THE SOUTH

# Network Layout



LOCATION (FIBERS ON NORTH/EAST SIDE)

FIBER	TMC	557010.3	025523.5
1-2		T	T
3-4	N		-B-
5-6	O		-B-
7-8		S	T
9-10	F		S
11	I	P	
12	B	A	S
13-14	E	T	T
15-16	R		-B-
17-18			-B-
19-20	H		T
21-22		S	S
23		S	S
24		S	S
25-72		-UC-	-UC-

LOCATION (FIBERS ONSOUTH/WEST SIDE)

FIBER	TMC	557010.3	025523.5
1-2	T	T	T
3-4	T		-B-
5-6	T		-B-
7-8	T		T
9-10	T		S
11	T		S
12	T		S
13-14	T	T	T
15-16	T		-B-
17-18	T		-B-
19-20	T		T
21-22	T	S	S
23	T	S	S
24	T	S	S
25-72	T	-UC-	-UC-

TOTAL TERMINATIONS=100 TOTAL SPLICES=20

•T=TERMINATE FIBER  
 S=SPLICE FIBER  
 -UC=UNCUT FIBER RUN  
 -B=BARE (UNUSED)

LOCATION	CISCO SWITCH	SFP/GBIC MODULES*(IF APPLICABLE)			WIRED COMMUNICATION DATA CONVERTER
		SFP-GE-L	GLC-FE-100LX	GLC-T	
5570-CABINET MP 10.3	WS-C2955S-12			1	
0255-CABINET MP 23.5	WS-C3750G-12S	1		1	
0255-CABINET MP 23.5	WS-CE500G-12TC		2		
TMC (EXISTING)	WS-C3750-12S	2		1	
TMC	WS-CE500G-12TC		4		
TOTALS:		3	6	2	

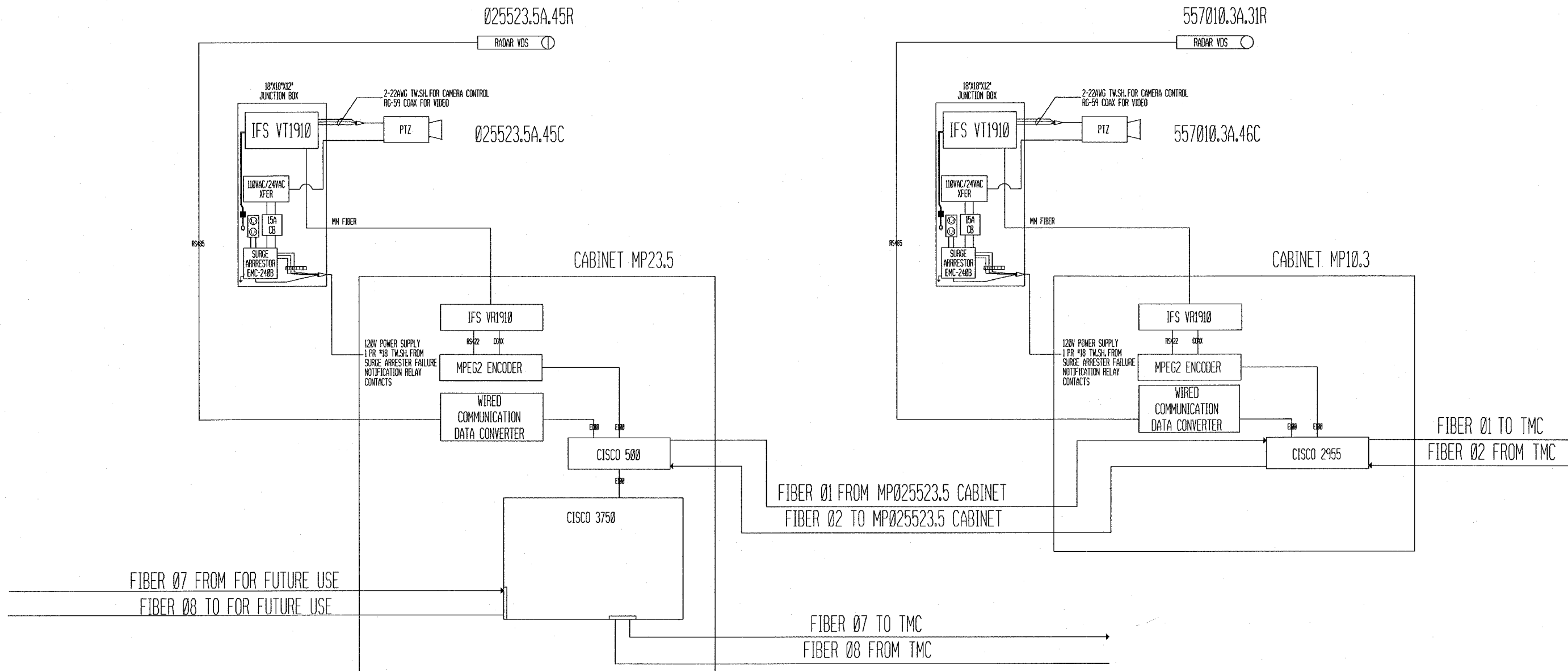
•SFP-GE-L = STANDARD FIBER SFP  
 GLC-FE-100LX = 100 MEG SMF SFP  
 GLC-T = GIGABIT COPPER SFP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 COMMUNICATION SYSTEM COVER SHEET AND  
 TERMINATION-SPLICES TOTALS & SWITCH SCHEDULE  
 FAI 255  
 SECTION DIST 8 ITS 2007-2, 2B  
 MADISON AND ST. CLAIR COUNTIES  
 DATE 9/22/2006

PLOT DATE = 9/22/2006  
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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	21	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
FAI 255		CONTRACT# 76A19		
DIST 8 ITS 2007-2, 2B				
MADISON & ST. CLAIR				



PLOT DATE = 9/22/2006  
 FILE NAME = \\s:\projects\025523.5A\025523.5A.dgn  
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 REFERENCE = #REF#

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION COMMUNICATION CABINET DIAGRAMS
NAME	DATE	
		1.I-255 CABINET MP23.5 2.I-55/70 CABINET MP10.3
		025523.5A.45C 557005.2A.40C
		025523.5A.45R 557005.2W.08S
		FAI 255
		SECTION DIST 8 ITS 2007-2, 2B
		MADISON AND ST. CLAIR COUNTIES
		DATE 9/22/2006



Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 1

ROUTE FAI 255 DESCRIPTION ITS Device on I-55/70 WB between IL 157 and I-255 LOCATION SW 14, SEC. 29, TWP. 3N, RNG. 8W, 3 PM LOGGED BY Sarah Wislock Date 4/19/06

SECTION Dist 8 ITS 2007-2, 2b COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.	DEPTW	BULGE	UCS	M	Surface Water Elev.	ft
NA	NA					
					Groundwater Elev.:	
					First Encounter	Dry Hole
					Upon Completion	
					After	Hrs.
BORING NO. <u>1</u>						
Station <u>499 + 00</u>						
Offset <u>78.00R Left</u>						
Ground Surface Elev. <u>ft</u>	(ft)	(ft)	(%)			
Rocks and Sand			NC	4		
			1.25	13		
Brown SILT (Rock)			0.5	16		
(Gray/Brown)			0.75	18		
			0.5	15		
Gray/Brown Sandy SILT			0.75	15		
			1.25	21		
Black Silt LOAM			1.75	21		
Black Silty Clay LOAM						
End of Hand Auger						
Pocket Penetrometer used for Qu						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	***	21	21

STA. TO STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

- \* FAI 255 CONTRACT# 76A19
- \*\* DIST 8 ITS 2007-2, 2B
- \*\*\* MADISON & ST. CLAIR



Illinois Department of Transportation

### SOIL BORING LOG

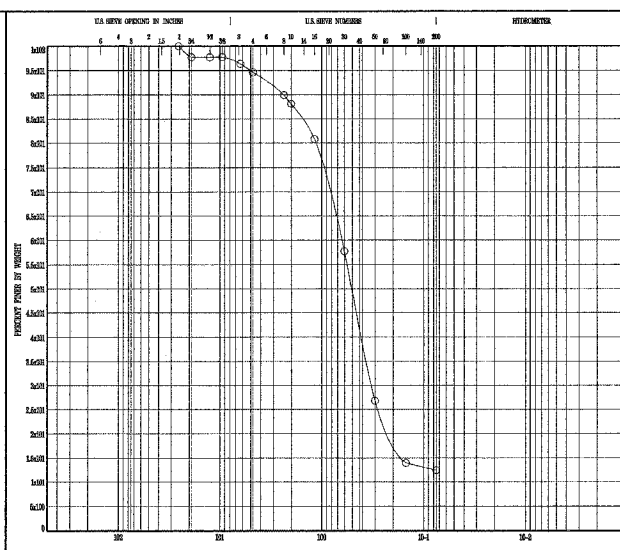
Page 1 of 1

ROUTE FAI 255 DESCRIPTION ITS Device on I-255 NB at Collinville Road Exit LOCATION NW 14, SEC. 6, TWP. 2N, RNG. 8W, 3 PM LOGGED BY Sarah Wislock Date 4/19/06

SECTION Dist 8 ITS 2007-2, 2b COUNTY St. Clair DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.	DEPTW	BULGE	UCS	M	Surface Water Elev.	ft
N/A	N/A					
					Groundwater Elev.:	
					First Encounter	Dry Hole
					Upon Completion	
					After	Hrs.
BORING NO. <u>3</u>						
Station <u>1229 + 30</u>						
Offset <u>124.00R Right</u>						
Ground Surface Elev. <u>ft</u>	(ft)	(ft)	(%)			
Brown SILT			1.0	15		
			1.0	23		
			0.5	17		
			1.0	21		
(Grey)			1.25	20		
			2.75	18		
			2.75	19		
(Mottled)			1.0	21		
(Brown)			1.25	21		
			1.0	21		
Brown Silt LOAM				28		
Brown SAND with Silt Nodules See Gradation @ 11 ft			NC	9		
Dark Gray SILT			1.0	21		
End of Hand Auger						
Pocket Penetrometer used for Qu						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Specimen Identification	GRAVEL		SAND		SILT OR CLAY	
	mm	in	mm	in	mm	in
Specimen Identification	75	3	4.75	0.15	0.075	0.075
	11.0		6.61	0.26	5.5	0.22

GRAIN SIZE DISTRIBUTION  
Route: FAI 255  
Section: Dist 8 ITS 2007-2, 2b  
County: St. Clair

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SOIL BORING LOGS**  
FAI ROUTE 255  
SECTION DIST 8 ITS 2007-2, 2B  
MADISON & ST. CLAIR COUNTIES