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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

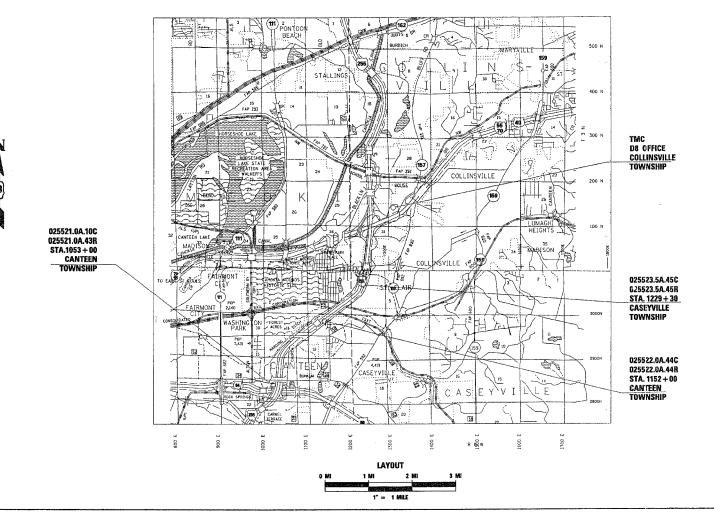
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

ITS COMMUNICATION, SURVEILLANCE AND RADAR DETECTION FROM THE I-64 AND I-255 INTERCHANGE, THEN NORTH ALONG I-255 TO JUST SOUTH OF THE COLLINSVILLE ROAD EXIT PROJECT: CMI-000S(547)

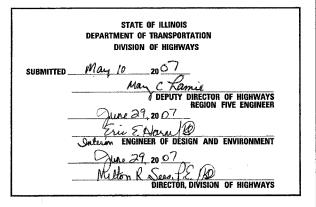
C-98-059-07



SECTION . EAI 64/EAI 255 .. DIST_8_HTS_2008-1._2C

D-98-055-07





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1. TITLE SHEET

17. RADAR VEHICLE DETECTION DETAIL 18. SERVICE INSTALLATION AND POLE MOUNTED CCTV DETAIL WITH CAMERA LOWERING DEVICE DETAILS

2. PLAN SHEET LAYOUT / VOLUME SCHEDULE / TRAFFIC CONTROL

19. POLE AND TOWER MOUNTED CCTV DETAIL WITH CAMERA LOWERING DEVICE

AND PROTECTION STANDARDS SCHEDULE

5. GENERAL NOTES, LEGEND, & SPECIFICATIONS

8-16. EROSION AND SEDIMENT CONTROL PLAN (1-8 OF 8)

- 20. LIGHT TOWER FOUNDATION
- 21-29. ITS PLANS (SHEETS 1- 9 OF 9)

INDEX OF SHEETS

3. SUMMARY OF QUANTITIES 4. SCHEDULE OF QUANTITIES

30. TERMINATION-SPLICES TOTALS & SWITCH SCHEDULE

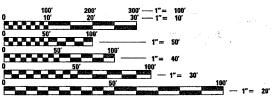
6-7. STORM WATER POLLUTION PREVENTION PLAN(1-2 OF 2)

- 31. COMMUNICATION SYSTEM COVER SHEET
- 32-33. COMMUNICATION DIAGRAMS (SHEETS 1-2 OF 2)
- 34. SOIL BORING

STANDARDS

000001-04 280001-03 701001--01 701101-01 701106-01 701400-02 701406-04 701446 702001-06 720021-01 814001 - 01 814006 - 01 701411-03

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.

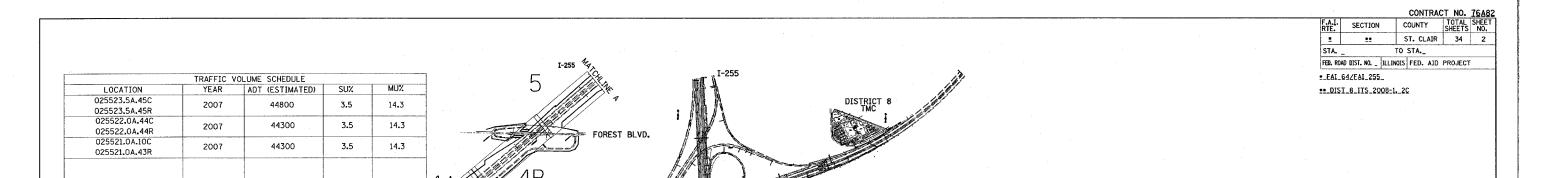
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 76A82

ST. CLAIR COUNTY

SECTION DIST 8 ITS 2008-1, 2C

FAI 1-64/FAI 255



COLLINSVILLE RD.

MADISON COUNTY ST. CLAIR COUNTY

MADISON COUNTY
ST. CLAIR COUNTY

	TRAFFIC CONTROL							
TRAFFIC CONTROL	LOCATION	LOCATION	LOCATION	F.O. BACKBONE				
AND PROTECTION	025521.0A.10C	025522.0A.44C	025523.5A.45C	CONDUIT,				
STANDARDS	025521.0A.XXR	025522.0A.44R	025523.5A.45R	& HANDHOLES				
701101	1	1	1	1				
701106	1	1	1	1				
701400		1	1	1				
701406	-	1	1	1				
701446				2				
702001	1	1	1	1				

	FIELD EQUIPMENT NUMBERING SYSTEM
	EXAMPLE : 006402.8W.11D
0064	DESIGNATES HIGHWAY WHERE FIELD EQUIPMENT IS LOCATED.
0064 02.8	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)
	H = HAR SIGNAGE WITH BEACON
	R = RADAR DETECTION

KE VISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PLAN SHEET LAYOUT/VOLUME SCHEDULE
		FAI 64/FAI 255
		SECTION DIST 8 ITS 2008-1, 2C
		ST. CLAIR COUNTY
		•
		DATE 5/9/2007

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

•_EAI_64/EAI_255_ ••_DIST_8_HTS_2008-1._20

ARY	UF	QUANIIII	F2		URBAN 80%, FED./201.STATE	
CODE Y032-1F		Ci li ii ii ii	^ <u>_</u>	01144ITTTTC	CONSTRUCTION TYPE CODE Y032-1F	_

	CONSTRUCTION TYPE CODE Y032-1F		YPE CODE Y032-1F				CONSTRUCTION TYPE CODE Y032-1F			
	SUMMARY OF QUANTITIES		TOTAL QUANTITIES	ST. CLAIR		SUMMARY OF QUANTITIES	•	TOTAL QUANTITIES	ST. CLAIR	
CODE NO	ITEM	UNIT			CODE NO	ITEM	UNIT			
25000210	SEEDING, CLASS 2A	ACRE	1.7	1.7	X0323150	JUNCTION BOX, ALUMINUM, ATTACHED TO STRUCTURE, 18" X 18" X 10"	EACH	5	5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	153	153	X0325066	2955 LAYER 2 SWITCH	EACH	1	1	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	153	153	X0325075	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., FIBERGLASS BULLET RESISTANT	FOOT	120	120	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	153	153	X0325077	FIBER OPTIC UTILITY MARKER	EACH	72	72	
25100105	MULCH, METHOD 1	ACRE	1.7	1.7						
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	153	153	X0325460	CONTROLLER CABINET TYPE III, SPECIAL (AIR-CONDITIONED)	EACH	1	1	
28000500	INLET AND PIPE PROTECTION	EACH	11	11	X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	2	2	
63300575	REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARD RAIL	F00T	100	100	X0325483	SFP-GE-L SFP MODULE	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	X0325487	WIRED COMMUNICATION DATA CONVERTER	EACH	2	2	
67100100	MOBILIZATION	L SUM	1	1.0	X0325525	GLC-FE-100 FX SFP MODULE	EACH	1	1	
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1	X0325575	CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 40	FOOT	220	220	
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	L SUM	1	1	X0325593	LIGHT TOWER, 80 FT, WITH CAMERA LOWERING SYSTEM	EACH	1	1	
80300100	LOCATING UNDERGROUND CABLE	FOOT	1000	1000	X0325673	3560-24PS LAYER SWITCH	EACH	1	1	
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1	X8100065	CONDUIT IN TRENCH, 4" DIA., PVC TYPE C	F00T	14905	14905	
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	350	350	X0325576	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC 5CHE OULE 40	F00T	2425	2425	
81100800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	330	330	X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	FOOT	19209	19209	
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	26	26						
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2	2						
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2604	2604						
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	F00T	15240	15240						
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	14.3	14.3						
87000105	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND	FOOT	51	51	·					
87301715	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 6 PAIR	FOOT	51	51						
87800210	CONCRETE FOUNDATION, TYPE D (SPECIAL)	FOOT	3.5	3.5						
87900100	DRILL EXISTING FOUNDATION	EACH	2	2						
87900200	DRILL EXISTING HANDHOLE	EACH	4	4						
X0322227	CLOSED CIRCUIT TELEVISION CAMERA SYSTEM	EACH	1	1						
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	17943	17943	-					
		<u> </u>						1		

CONTRACT NO. 76A82

-_EAI_64/EAI_255_ **_DIST_8_HIS_2008-1._2C

RTE.	SECT	ION	COU	NTY	SHEETS	S NO.	
*	•	•	ST.	CLAI	₹ 31	4	
STA TO STA							
FED. RO	D DIST. N	0 ILL	INOIS FE	D. AI	D PROJEC	T	
FED. RO	4D DIST. N	0 ILL	INOIS FE	D. AI	D PROJE	C	

SCHEDULE OF QUANTITIES				CONSTRUCTION TYPE CODE Y032-1F ST. CLAIR						
	SOME OF GOARTITIES		TOTAL QUANTITIES	025521.0A.10C 025521.0A.73R	025522.0A.44C 025522.0A.44R STA. 1152+00		FIBER OPTION			
CODE NO	ITEM	UNIT		STA.1053+00	STA. 1152+00	STA. 1229+30	BACK BONE			
25000210	SEEDING, CLASS 2A	ACRE	1.7				1.7			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	153		-		153			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	153				153			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	153				153			
25100105	MULCH, METHOD 1	ACRE	1.7				1.7			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	153	-			153			
28000500	INLET AND PIPE PROTECTION	EACH	11		,	1	H			
63300575	REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARD RAIL	F00T	100	50	50		í			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	0.7	1.4	0.7	. 3.5			
61100100	MOBILIZATION	L SUM	1	0.1	0.2	0.1	0.5			
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1				1			
70 00815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	L SUM	1				1			
80300100	LOCATING UNDERGROUND CABLE	FOOT	1000		250		750			
80500 00	SERVICE INSTALLATION, TYPE A	EACH	1		. 1					
810 2800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	350	20	330					
81100800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	F00T	330	*.	330					
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	26		2		24			
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2		÷	1	1			
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2604		2604					
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	F00T	15240	10	385		14845			
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	14.3		14.3					
87000105	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND	FOOT	51		51					
87301715	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18 6 PAIR	FOOT	51		51					
87800210	CONCRETE FOUNDATION, TYPE D (SPECIAL)	FOOT	3.5		3.5					
87900100	DRILL EXISTING FOUNDATION	EACH	2	2						
87900200	DRILL EXISTING HANDHOLE	EACH	4		4					
K0322227	CLOSED CIRCUIT TELEVISION CAMERA SYSTEM	EACH	1		1					
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	17943		222		17721			

<u> </u>	COUEDING OF QUANTITIES	CONSTRUCTION TYPE CODE Y032-IF						
SCHEDULE OF QUANTITIES				ST. CLAIR 025521.0A.10C				
CODE NO	ITEM	UNIT	QUANTITIES	025521.0A.10C 025521.0A.73R STA.1053+00	025522.0A.44R STA. 1152+00	STA. 1229+30	FIBER OPTIC BACK BONE	
X0323150	JUNCTION BOX, ALUMINUM, ATTACHED TO STRUCTURE, 18" X 18" X 10"	EACH	5		3		2	
X0325066	2955 LAYER 2 SWITCH	EACH	1	1				
X0325075	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., FIBERGLASS BULLET RESISTANT	F00T	120				120	
X0325077	FIBER OPTIC UTILITY MARKER	EACH	72	620			62	
X0325460	CONTROLLER CABINET TYPE III, SPECIAL (AIR-CONDITIONED)	EACH	1		1		·	
x0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	2	1		1		
X0325483	SFP-GE-L SFP MODULE	EACH	2		1			
XD325487	WIRED COMMUNICATION DATA CONVERTER	EACH	2	1	1			
X0325524	GLC-FE-100 FX SFP MODULE	EACH	1			1		
X0325575	CONDUIT PUSHED, 4" DIA., PVC SCHEDULE 40	FOOT	220		60		160	
X0325593	LIGHT TOWER, 80 FT, WITH CAMERA LOWERING SYSTEM	EACH	1		1			
X0325673	3560-24PS LAYER SWITCH	EACH	1		1			
хв100065	CONDUIT IN TRENCH, 4" DIA., PVC TYPE C	FOOT	14905		60		14845	
X0325576	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC SCHEDULE 40	F00T	2425				2425	
X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	FOOT	19209	146	540		18523	
\prod								
					<u>.</u>			
1//								

LEGEND

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
\boxtimes	EXISTING CONTROLLER
-D-	EXISTING SERVICE INSTALLATION
	EXISTING GALVANIZED STEEL CONDUIT
0	EXISTING JUNCTION BOX
	EXISTING SIGN TRUSS
	EXISTING HIGHWAY LIGHTING UNIT
-0-	EXISTING UNDERGROUND LIGHTING CABLES
	PROPOSED HANDHOLE
	PROPOSED DOUBLE HANDHOLE
\blacksquare	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
0	PROPOSED HIGHWAY ADVISORY RADIO
R	PROPOSED RADAR VEHICLE DETECTOR

GENERAL NOTES

- 1. 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 THE BUREAU OF OPERATIONS SHALL BE CONTACTED FOR ACTUAL CAMERA LOCATION VERIFICATION.
- 2. ALL MATERIALS SUPPLIED SHALL CONFORM TO SECTION 106 OF THE STANDARD SPECIFICATIONS FOR CONTROL OF MATERIALS.
- 3. THE CONTROLLER CABINETS AND JUNCTION BOXES SHALL BE UNPAINTED ALUMINUM SHEET METAL UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 4. UNDERGROUND CABLE MARKING TAPE SHALL BE INSTALLED WITH ALL TRENCH AND BACKFILL FOR ELECTRICAL WORK IN ACCORDANCE WITH ARTICLES 819.05 AND 1066.05 OF THE STANDARD SPECIFICATIONS.
- 5. 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.
- 6. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAMS, DECK, OR SUBSTRUCTURE OF THE BRIDGE. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 7. 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.
- 8. COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATION/ITS FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- 9. 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.
- 10. NO OVERNIGHT PERMANENT LANE CLOSURES SHALL BE PERMITTED ON THIS PROJECT.
- 11. ANY GROUND AREA THAT THE CONTRACTOR COMPACTS OR 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.
- 12. ALL HANDHOLES SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (PER ARTICLE 1088.06) 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 SYTEMS AND VIDEO VEHICLE DETECTION SYSTEMS AND INSTALLATIONS.
- 13. 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:
 - * AT&T ILLINOIS (COMMUNICATIONS)
 - * AMEREN CIPS (ELECTRIC)
 - * AMEREN IP (ELECTRIC & GAS)
 - BUCKEYE PIPE LINE COMPANY (PIPELINE)
 VILLAGE OF CASEYVILLE (SANITARY SEWER)
 - CHARTER COMMUNICATIONS, INC. (CABLE TV)
 - * CENTERPOINT ENERGY (PIPELINE)
 - * CITY OF COLLINSVILLE (SANITARY SEWER & WATER)
 - * ILLINOIS AMERICAN WATER COMPANY (WATER) * MCLEOD USA TELECOMMUNICATIONS, INC. (COMMUNICATIONS)
 - * MEDIACOM LLC CENTRAL (CABLE TV)
 - * MOUND PUBLIC WATER AND SEWER DISTRICT (WATER)
 - * QWEST COMMUNICATIONS (COMMUNICATIONS)
 - * METRO (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,)

- CONTRACT NO. 76A82
 COUNTY TOTAL SHEET NO. COUNTY SECTION ST. CLAIR 34 5 STA. TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT
- -_EAI_64/EAI_255_

** DIST_8_HTS_2008-1._2C

- 14. 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 618-277-7316 EXT. 104 FOR ST. CLAIR COUNTY
- 15. 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 AND LICENSES".
- 16. 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.
- 17. FIELD MEASUREMENTS ARE REQUIRED TO VERIFY DIMENSIONS OF EXISTING STRUCTURES PRIOR TO ORDERING MOUNTING
- 18. 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.

ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL NOTES, LEGEND, & SPECIFICATIONS FAI 64/FAI 255

SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CFRTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

- 1. THE PROJECT CONSISTS OF INSTALLING ITS COMMUNICATION, DETECTION AND SURVEILLANCE DEVICES.
- CONSTRUCTION INCLUDES CAST-IN PLACE HANDHOLES, DRILLED SHAFT FOUNDATIONS, FORMED FOUNDATIONS, UNDERGROUND RACEWAY AND EXPOSED RACEWAY

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS TEMPORARY SEEDING.
- 2. PLACEMENT OF PERMANENT EROSION CONTROL. SUCH AS SEEDING.

	SEEDI	ING SCHEL	/ULE							
	I-255	I-255	I-255	I-255	I-255	I-255	I-255	I-255	I-255	
	STA.	STA.	STA.	STA.	STA.	STA.	STA.	STA.	STA.	
LOCATION	1053+00	1058+00	1072+00	1101+00	1130+00	1144+00	1159+00	1189+00	1218+00	
LOCALIUN	TO	TO	T0	TO	T0	TO	TO	TO	TO	TOTAL
1	STA.	STA.	STA.	STA.	STA.	STA.	STA.	STA.	STA.	ACRES
1	1058+00	1072+00	1101+00	1130+00	1144+00	1159+00	1189+00	1218+00	1229+00	
SHEET #	7	4	5A/5B	6A/6B	7	8	9A/9B	10A/10B	11	
0F 13	١	7	3AV 3D	04/ 00	- '	J	34/30	102 100	• •	
ACRES	0, 1	0.2	0.3	0.3	0.2	0.2	0.1	0.3	0.2	1.8

DRAINAGE PROTECTION LOCATIONS

I-255							
DEVICE	TO STA.	OFFSET					
INLET	1070+00	0.0					
INLET	1075+00	0.0					
INLET	1085+00	0.0					
INLET	1105+00	0.0					
INLET	1115+00	0.0					
INLET	1125+00	0.0					
INLET	1132+00	0.0					
INLET	1204+00	0.0					
INLET	1210+00	0.0					
INLET	1220+00	0.0					
INLET	1228+00	0.0					

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.0 ACRES OF WHICH 1.7 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

CONTRACT NO. 16A82
SECTION COUNTY SHEETS NO. ST. CLAIR 34 TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

*_EAI_64/EAI_255_

**_DIST_8_ITS_2008-1._2C

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

- INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
- PROJECT PLAN DOCUMENTS, STANDARD SPECIFICATIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPITATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. HARDING DITCH

CONTROLS • EROSION CONTROLS AND SEDIMENT CONTROL
DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

- THE DRAWINGS. SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED. WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- (a.) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- (b.) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
- ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDNG CAN BE COMPLETED.

MISCELLANEOUS:

1. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.

5-10-07

- TEMPORARY EROSION CONTROL SEEDING SHALL CONFORM TO SECTION 280 OF THE STANDARD SPECIFICATIONS.
- ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE FROSION 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.

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

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN 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.

May Chami DEPUTY DIRECTOR OF HIGHWAYS

SHEET 1 OF . 11

REVISIONS	
NAME DATE	TIL THOSE DEDARTMENT OF TOURSDAY THE
	ILLINOIS DEPARTMENT OF TRANSPORTATION
	STORM WATER POLLUTION PREVENTION PLAN
	STORM WATER TOLEDITOR TREVERTION TEAM
	'
	FAI 64/FAI 255
	SECTION DIST 8 ITS 2008-1, 2C
	ST. CLAIR COUNTY
	C. CLAIR COUNTY
	DATE 5/9/2007

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

- DURING CONSTRUCTION, AREAS OUTSIDE THE STATE RIGHT OF WAY (ROW) SHALL BE PROTECTED THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (g.) WITHIN THE ROW, 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 TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODIBLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - III. CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
 - IV. TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS.
 - V. BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT.
 - VI. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME, PLACING PERMANENT CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCTING FINAL SHAPING TO THE SLOPES.
 - (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 OF 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 FROSTON CONTROL WORK IS NECESSARY.
 - (g) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE PER ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
 - (h) THE TEMPORARY EROSION CONTROL SYSTEMS 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 TEMPORARY EROSION CONTROL SYSTEM.

CONTRACT NO. 76A82 RTE. SECTION COUNTY TOTAL SHEE SHEETS NO. ST. CLAIR 34 7 STA. TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

*_EAI_64/EAI_255_

**_DIST_8_ITS_2008-1._2C

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

- TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED. TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

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:

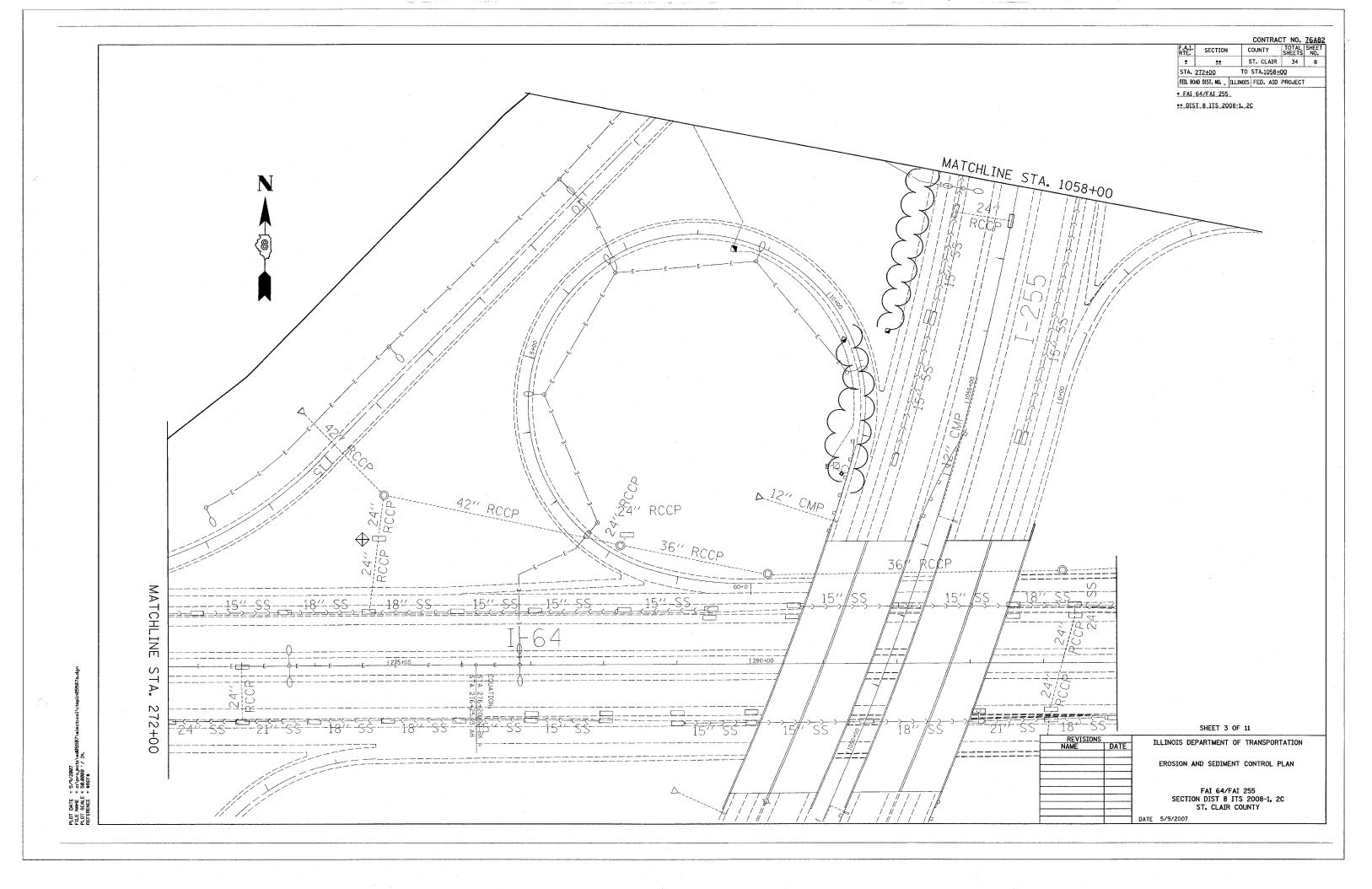
- 1. TEMPORARY DITCH CHECK SHALL BE LOCATED AT EVERY 1.5 FT. FALL/RISE IN DITCH GRADE.
- 2. TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3- REMOVE AT END OF CONSTRUCTION.
- 3. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.
- 4. CONSTRUCT PERIMETER EROSION CONTROL AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.

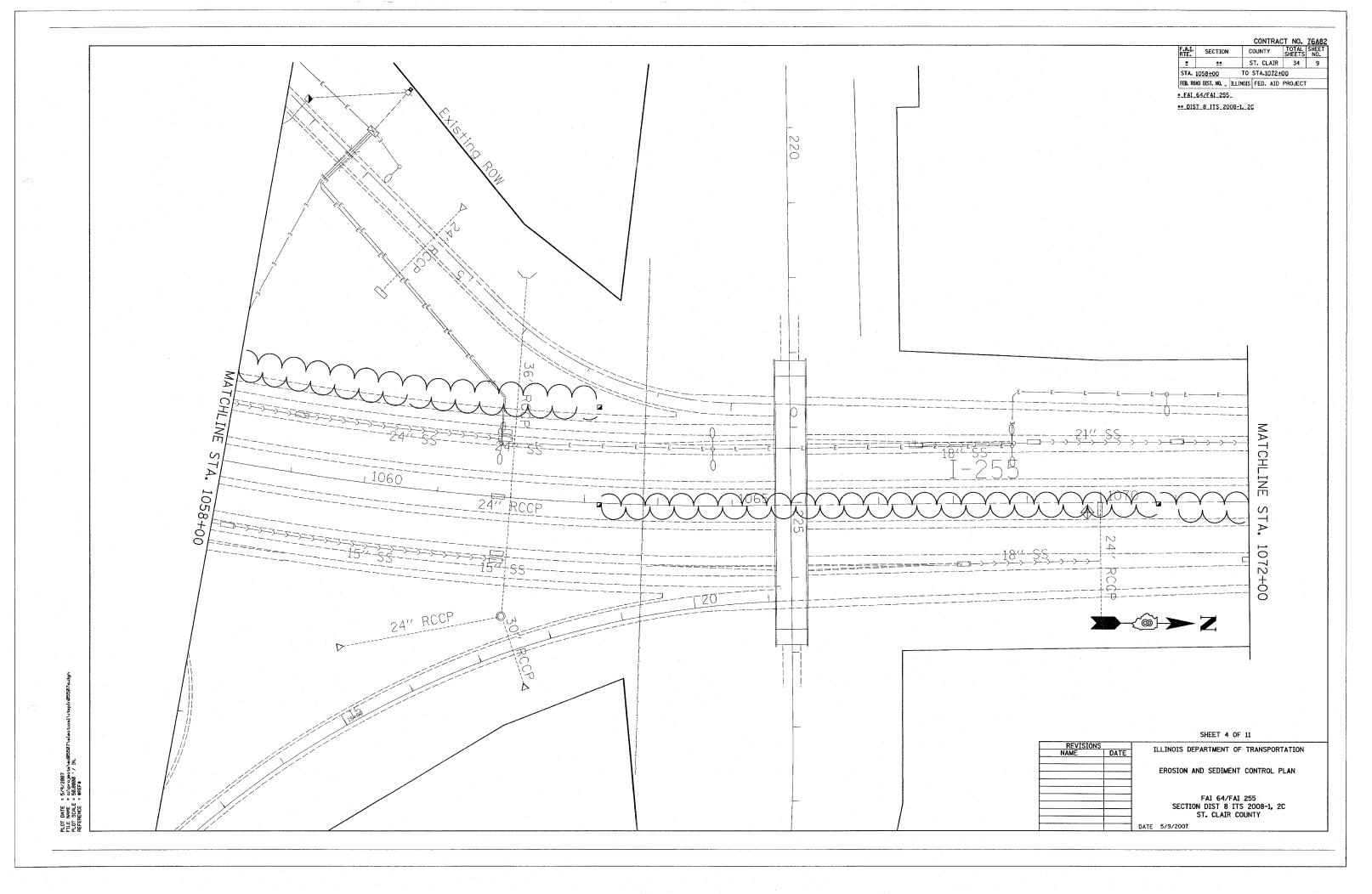
INLET AND PIPE PROTECTION- FILTER FABRIC, AGGREGATES

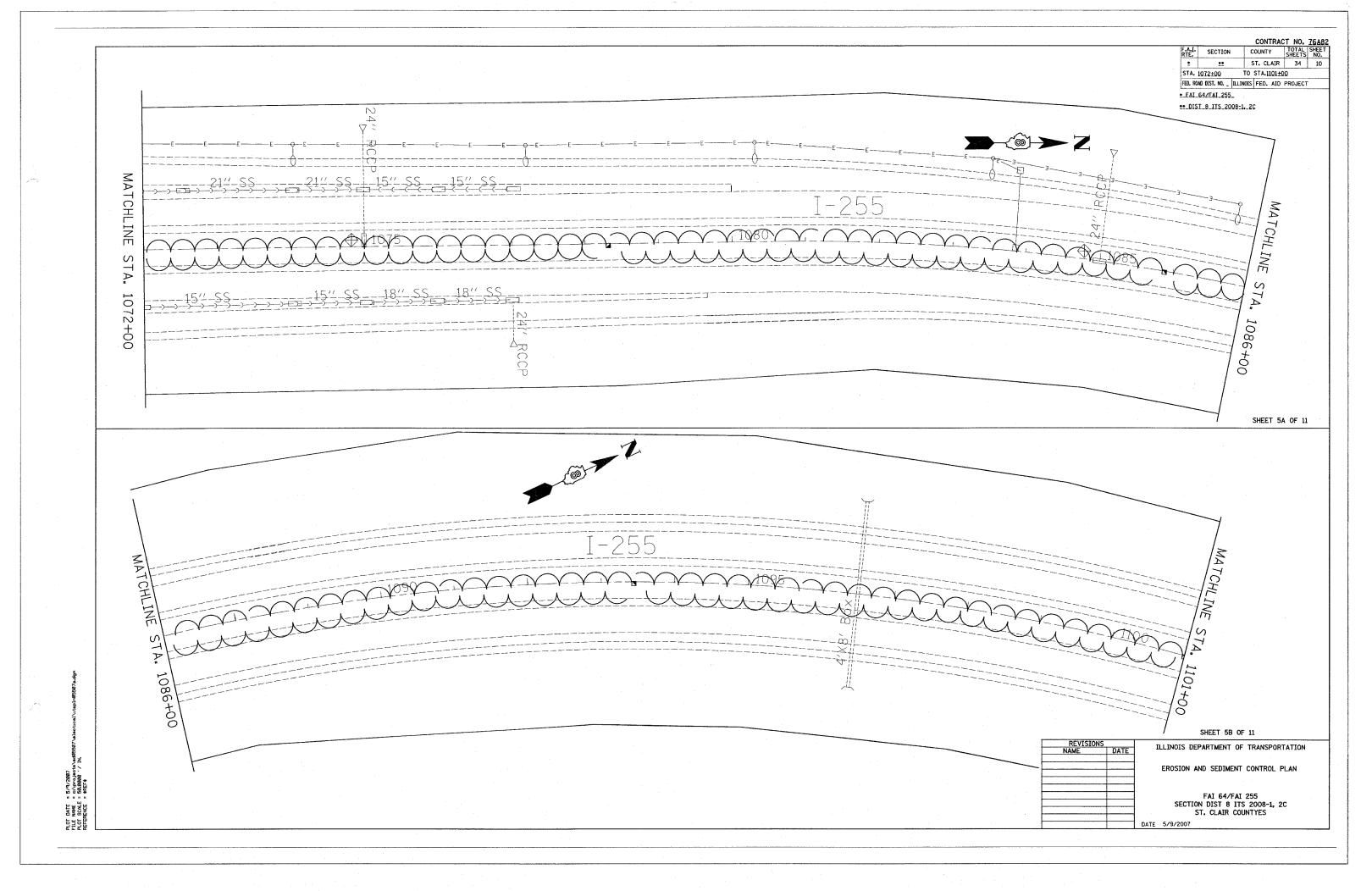
SEEDING LIMITS

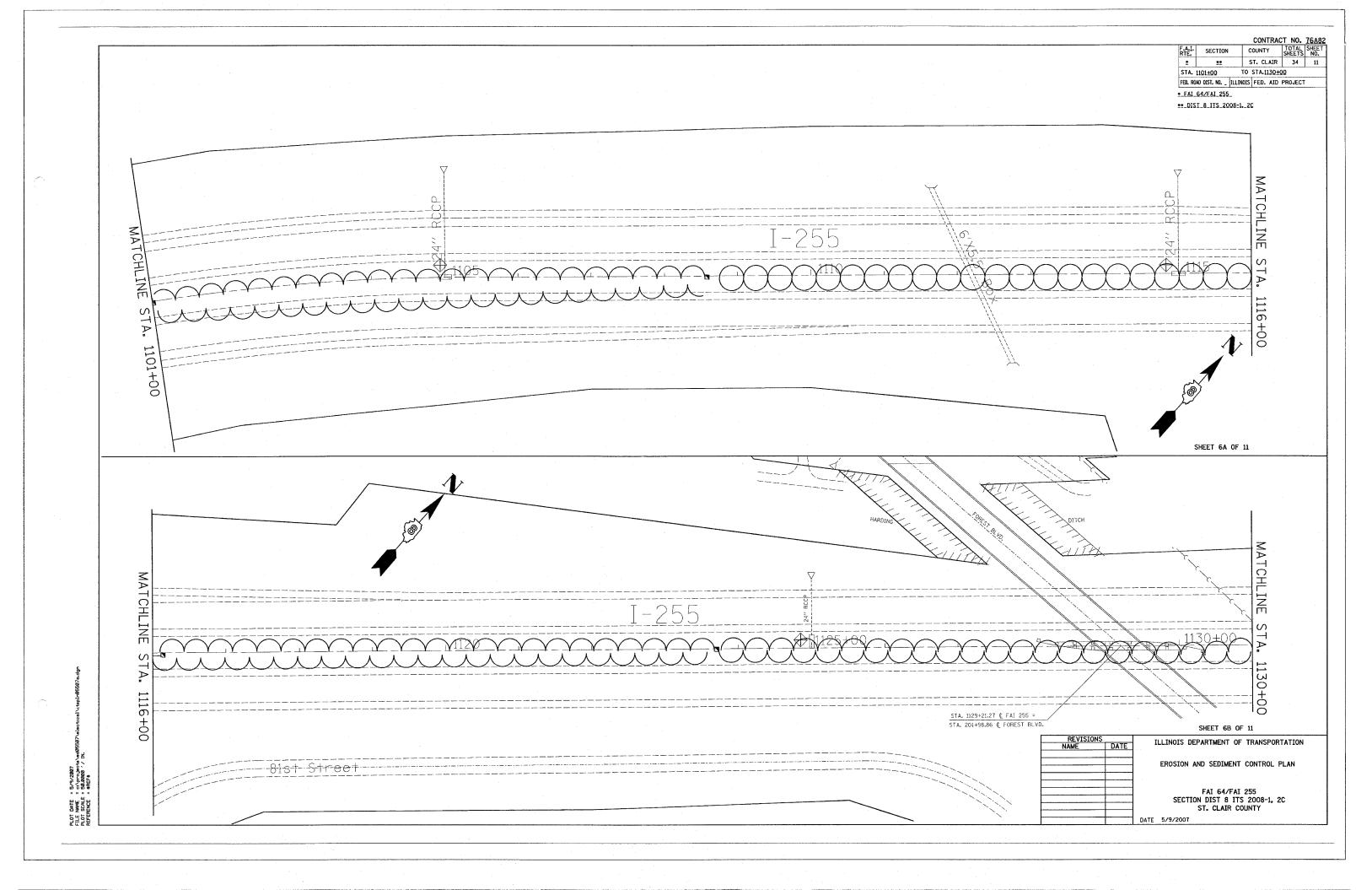
SHEET 2 OF 11

ILLINOIS DEPARTMENT OF TRANSPORTATION STORM WATER POLLUTION PREVENTION PLAN FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY









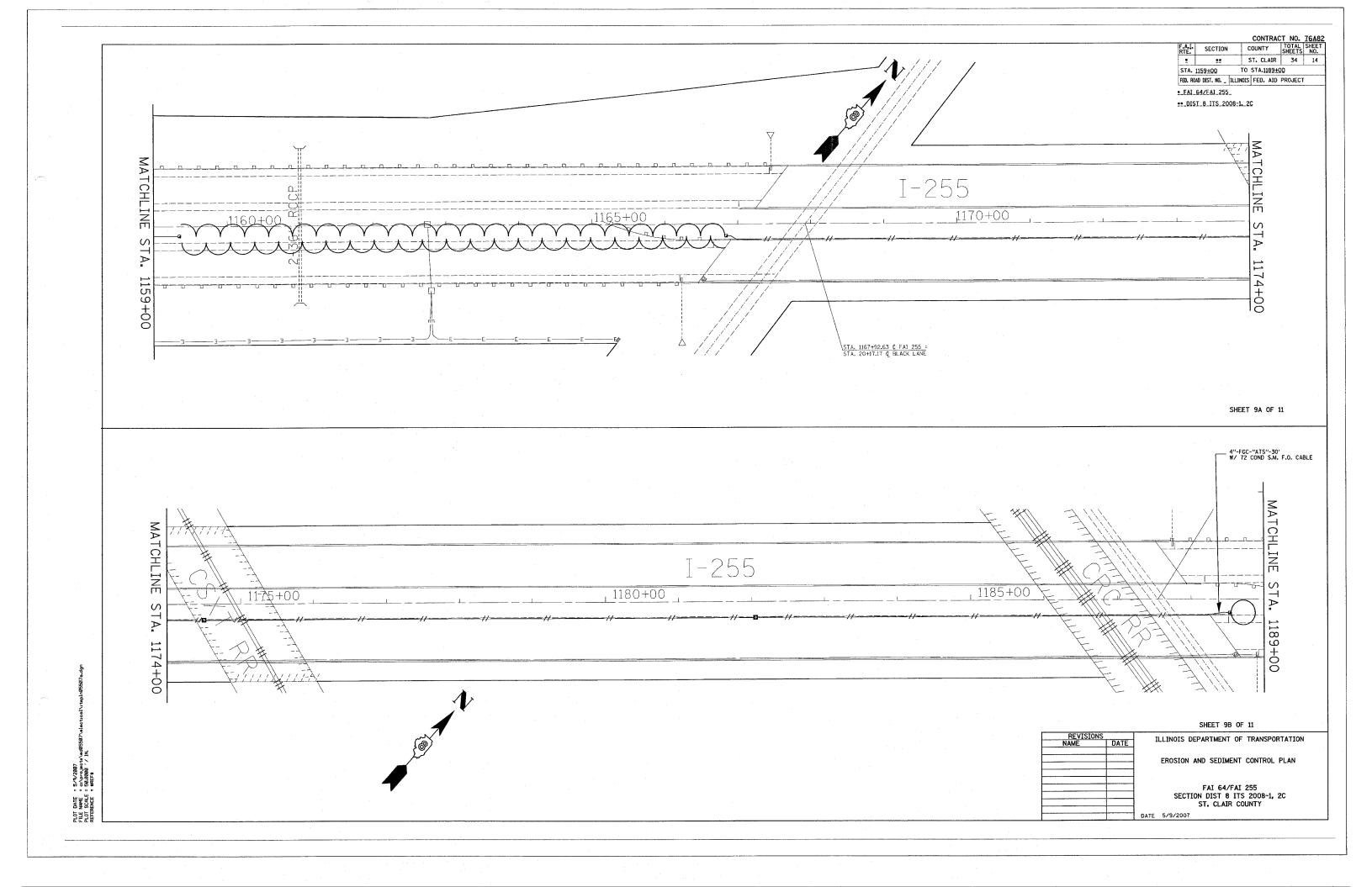
CONTRACT No. 76A82

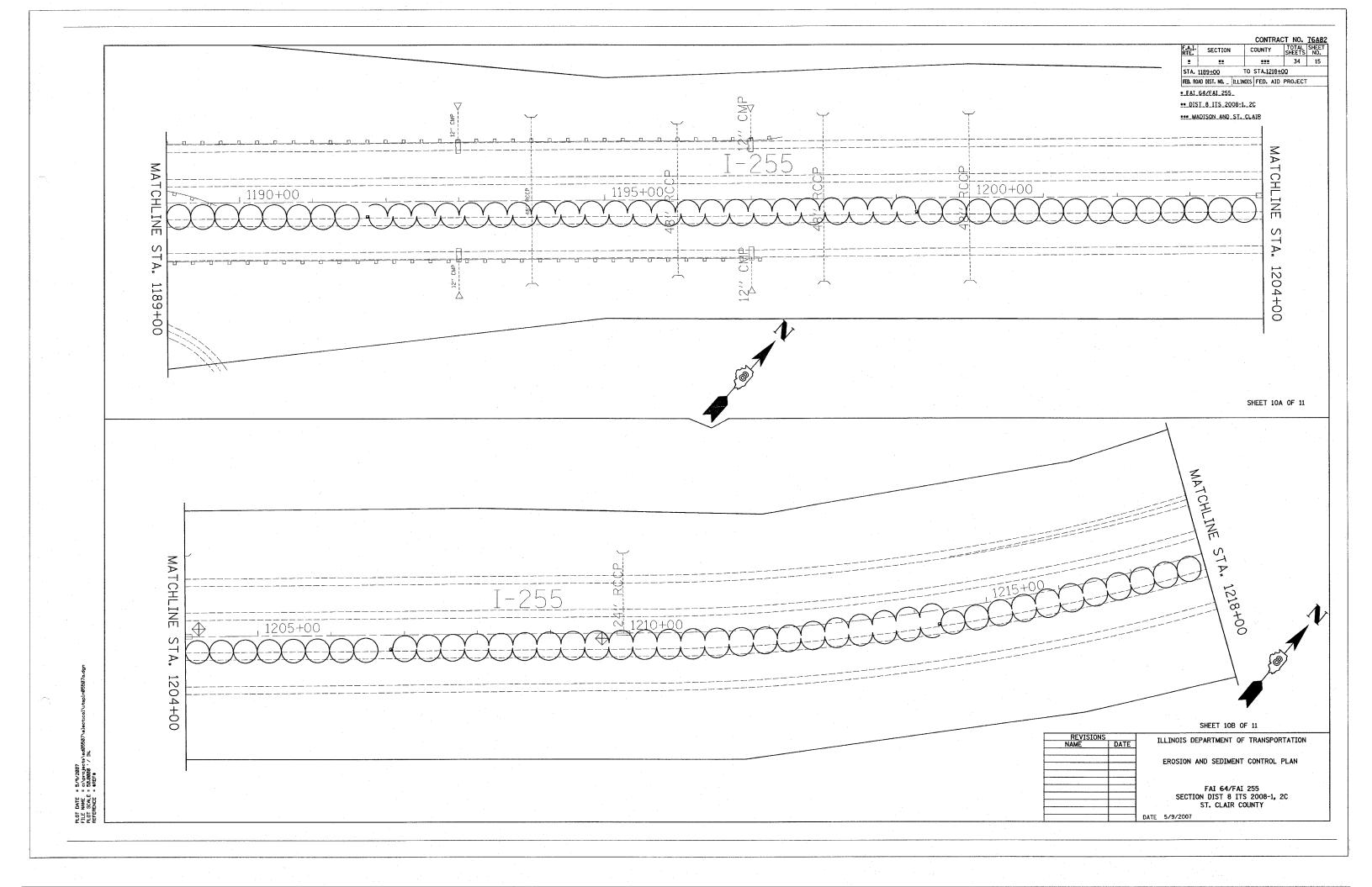
COUNTY TOTAL SHEET SHEET NO. F.A.I. SECTION ST. CLAIR 34 12 * ** STA. 1130+00 TO STA.1144±QQ FEB. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT *_FAI_64/EAI_255_ **_DIST_8_IIS_2008-1._2C MATCHLINE MATCHL STA. , , 1130+00 1144+00 ----

> SHEET 7 OF 11 ILLINOIS DEPARTMENT OF TRANSPORTATION EROSION AND SEDIMENT CONTROL PLAN FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

CONTRACT No. 76A82

COUNTY TOTAL SHEET NO. F.A.I. SECTION ST. CLAIR 34 13 STA. 1144±00 TO STA.1159±00 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT *_EAI_64/EAI_255_ **_DIST_8_ITS_2008-1._2C LEVEE RD. TCHL 1159+00 1144+00 STA. 1147+30 ¢ FAI 255 =/ STA. 50+00 ¢ LEVEE RD. (B) STA. 1148+95 C FAI 255 = STA. 20+60.80 ¢ HARDING DITCH LEVEE RD. TURNAROUND SHEET 8 OF 11 ILLINOIS DEPARTMENT OF TRANSPORTATION PLOT DATE = 5/9/2007 FILE NAME = c:\pro;ects\ed05 PLOT SCALE = 50.0000 // IN. REFERENCE = \$REF\$ EROSION AND SEDIMENT CONTROL PLAN FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY DATE 5/9/2007





CONTRACT NO. 76A82

COUNTY TOTAL SHEET NO. RTE. SECTION STA. 1218+00 TO STA.1230+00 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT •_EAI_64/EAI_255_ **_DISI_8_IIS_2008-1._2C MATCHLINE STA. 1230+00 SHEET 11 OF 11 ILLINOIS DEPARTMENT OF TRANSPORTATION EROSION AND SEDIMENT CONTROL PLAN FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

-EXISTING 45' STEEL POLE WITH CAMERA LOWERING DEVICE PROPOSED 80' TOWER WITH CAMERA LOWERING DEVICE PROPOSED CCTV CAMERA - EXISTING CCTV CAMERA WEATHER HEAD WITH RUBBER GROMMET WEATHER HEAD WITH RUBBER GROMMET — MOUNTING HARDWARE AS REQUIRED BY MANUFACTURER MOUNTING HARDWARE AS-REQUIRED BY MANUFACTURER 1" STAINLESS STEEL BANDS 1" STAINLESS STEEL BANDS PROPOSED NEW RADAR VEHICLE DETECTOR PROPOSED NEW RADAR VEHICLE DETECTOR DETECTOR CABLING IN POLE SHAFT DETECTOR CABLING IN POLE SHAFT 20'-NOMINAL SPECIAL PROVISION) OF ROADWAY EXISTING ALUMINUM JUNCTION BOX, 18" × 18" × 10" ATTACHED TO POLE PROPOSED ALUMINUM CENTER JUNCTION BOX, 18" × 18" × 10" ATTACHED TO POLE 20' 20' 2 ΕP I-255 SOUTHBOUND LANES I-64 WESTBOUND LANES I-255 NORTHBOUND LANES DETAIL RADAR VEHICLE DETECTOR NOT TO SCALE LOCATIONS: 1. 025521.0A.10C(BY OTHERS) 2. 025522.0A.44C 025521.0A.43R 025522.0A.44R STA. 1152+00 STA.1053+00 45' STEEL POLE(BY OTHERS) 80' TOWER W/3 LANES PER DIRECTION W/3 LANES PER DIRECTION

COUNTY TOTAL SHEET NO. SECTION STA. TO STA._ FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

*_EAI_64/EAI_255_

**_DIST_8_ITS_2008-1._2C

ILLINOIS DEPARTMENT OF TRANSPORTATION

RADAR VEHICLE DETECTION DETAIL

FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

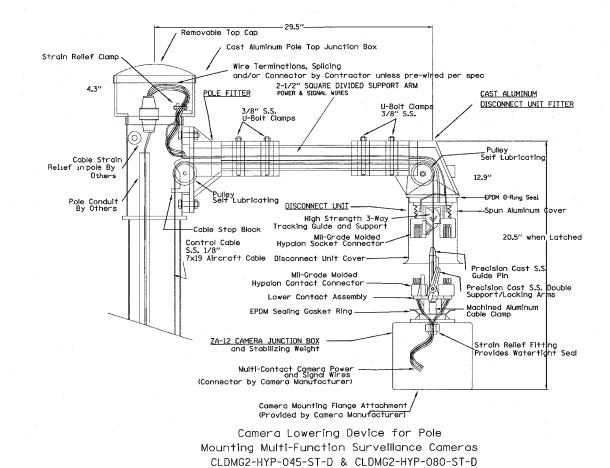
DATE 5/9/2007

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			CUNTRA	JI NO.	TOVOS
F.A.I. RTE.	SECTION	C	OUNTY	TOTAL SHEETS	SHEET NO.
•	**		T. CLAIR	34	18
STA.		TO	STA		
FED. ROA	D DIST. NO	ILLINOIS	FED. AID	PROJECT	

*_EAI_64/EAI_255_

** DIST_8_ITS_2008-1._2C



240V. 2 PHASE WEATHERHEAD CONDUIT CLAMPS
AT 5' INTERVALS THREE 1/C NO. 8 CABLES
IN 1" CONDUIT CONNECTOR FOR NON-METALLIC CONDUIT, IF REQUIRED 1" GALVANIZED
STEEL CONDUIT WOOD POLE-25' CIRCUIT BREAKER, 50A, 2P IN WEATHERPROOF ENCLOSURE (NEMA 4X) 1/2" Ø NON METALLIC CONDUIT 3" DIA. CONDUIT 4-1/C #6 TO TO CONTROLLER EXOTHERMIC WELD GROUND ROD (¾" Ø X 12' LONG) SERVICE INSTALLATION, TYPE A NOT TO SCALE

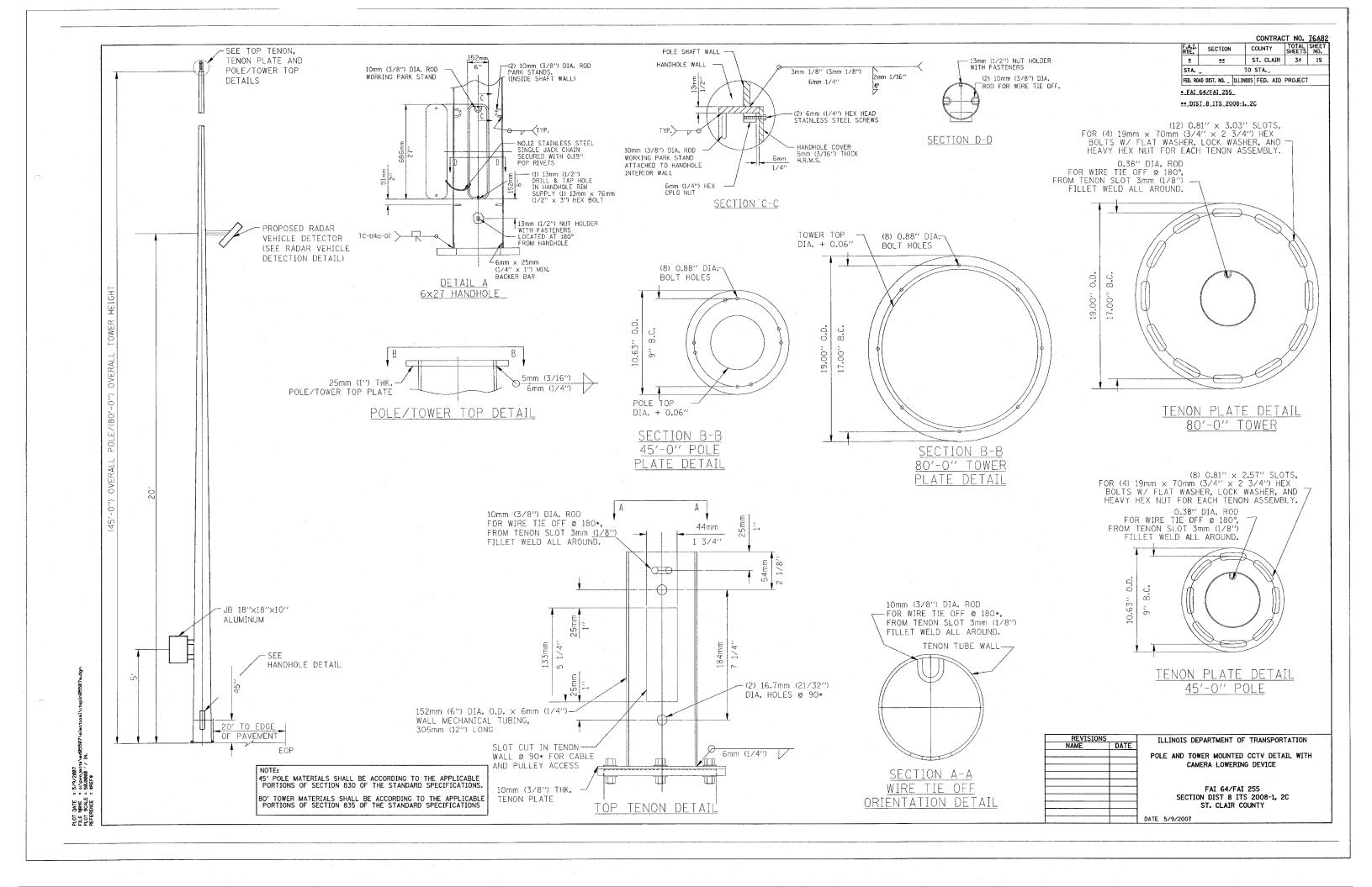
ILLINOIS DEPARTMENT OF TRANSPORTATION

SERVICE INSTALLATION AND POLE MOUNTED CCTV DETAIL WITH CAMERA LOWERING DEVICE DETAILS

FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

DATE 5/9/2007

PLOT DATE = 5/9/2007 FILE NAME = ct/projectated05 PLOT 9CALE = 50.0000 // IN, REFERENCE = \$REF\$



CONTRACT NO. 76A82 SECTION COUNTY TOTAL SHEET NO. ST. CLAIR 34 20 TO STA._ STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

. EAI 64/EAI 255

-- DIST_8_ITS_2008-1,_2C

230 (9) Minimum anchor rod projection above top of foundation, increase as needed.

-#4 baré copper grounding electrode conductor

125 (5) Dia. PVC duct wireway 25 (1)

min. projection above foundation.

150 (6)

Shaft diam.

See design

table

FOUNDATION

ELEVATION

#11 V bars evenly spaced

SECTION A-A

125 (5)

Anchor-

spaced

rods evenly

Top of foundation to be formed to 450 (18) below ground surface. After forms are removed, compact impervious material a minimum of 450 wide \times 450 deep (18W \times 18D) around fdn.

 $16mm \times 3m (5/8" \times 10")$ Two (min.) connected (threaded) sectional grounding electrodes, more as needed, to achieve proper grounding per Sec. 806

ANCHOR ROD CAGE

Bottom steel anchor bolt template. Method of attachment as approved by the Engineer, see detail.

V-bars see Sec. B-B and Table

(5) conc cover

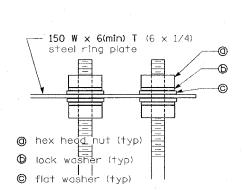
125(5) CON (See Note)

See desian

table

-#4 Spiral

3 hoops min. top & bottom



ANCHOR ROD & SHAFT REINFORCEMENT DESIGN TABLE (ENGLISH)

ROD

DIAM.

(MIN)

30

30

30

36

36

36

38

ANCHOR

DIAM.

(MTN)

(in)

1.5

1.5

1,5

1.5

1.75

1.75

1.75

2.25

150 2.25

HEIGHT

80

90

100

110

120

130

140

160

ROD

OWER DRILLED

SHAFT

DIAM.

48

48

48

54

54

54

60

60

14

14

14

18

18

18

21

BASE

DIAM.

(MIN)

21

21

21

26

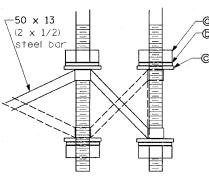
28

28

32

38 30

ANCHOR ROD CAGE TOP



	10
4	h
	DATE

ANCHOR ROD CAGE BOTTOM

		SHAFT LENGTH DESIG	n Tabi	_E (EN	GLISH)	(LENG	TH IN	FEET)			
	SOIL CONSISTENCY	AVERAGE STRENGTH			LIGH	IT TOW	ER HE	IGHT (feet)		
		(Qu in †sf)	80	90	100	110	120	130	140	150	160
	SOFT	< 0.5	20.4	21.5	22.5	23.6	25.0	26.1	27.2	28.5	29.8
φ.	MEDIUM	0.5 to 1	16.8	17.5	18.3	19.0	20.3	21.1	21.8	23.1	24.0
100	STIFF	1 to 2	14.3	14.8	15.4	15.9	17.1	17.6	18.1	19.3	19.9
ohe	VERY STIFF	2 to 4	12.6	13.0	13.3	13.7	14.8	15.2	15.6	16.7	17.1
ŭ	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
anula	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	15.5	16.1	16.5	16.9	17.5
2	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.
- D) 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	ILLINOIS DEPARTMENT OF TRANSPORTATION
	Corrected 4/12/06	LIGHT TOWER FOUNDATION
		FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

= 5/9/2. = ot/proje E = 56.0000 DATE NAME SCALE ENCE

Top ring template for

removable form). -

foundation

(500

length

Shaft

FOUNDATION SCHEDULE

TOWER STATION OFFSET LENGTH

20

025523.5 1152+00

÷0

1m ×1m ×150 (3'x3'x6'')

Concrete

work pad

(center with handhole door

anchor rods. Attachment

as approved by Engineer,

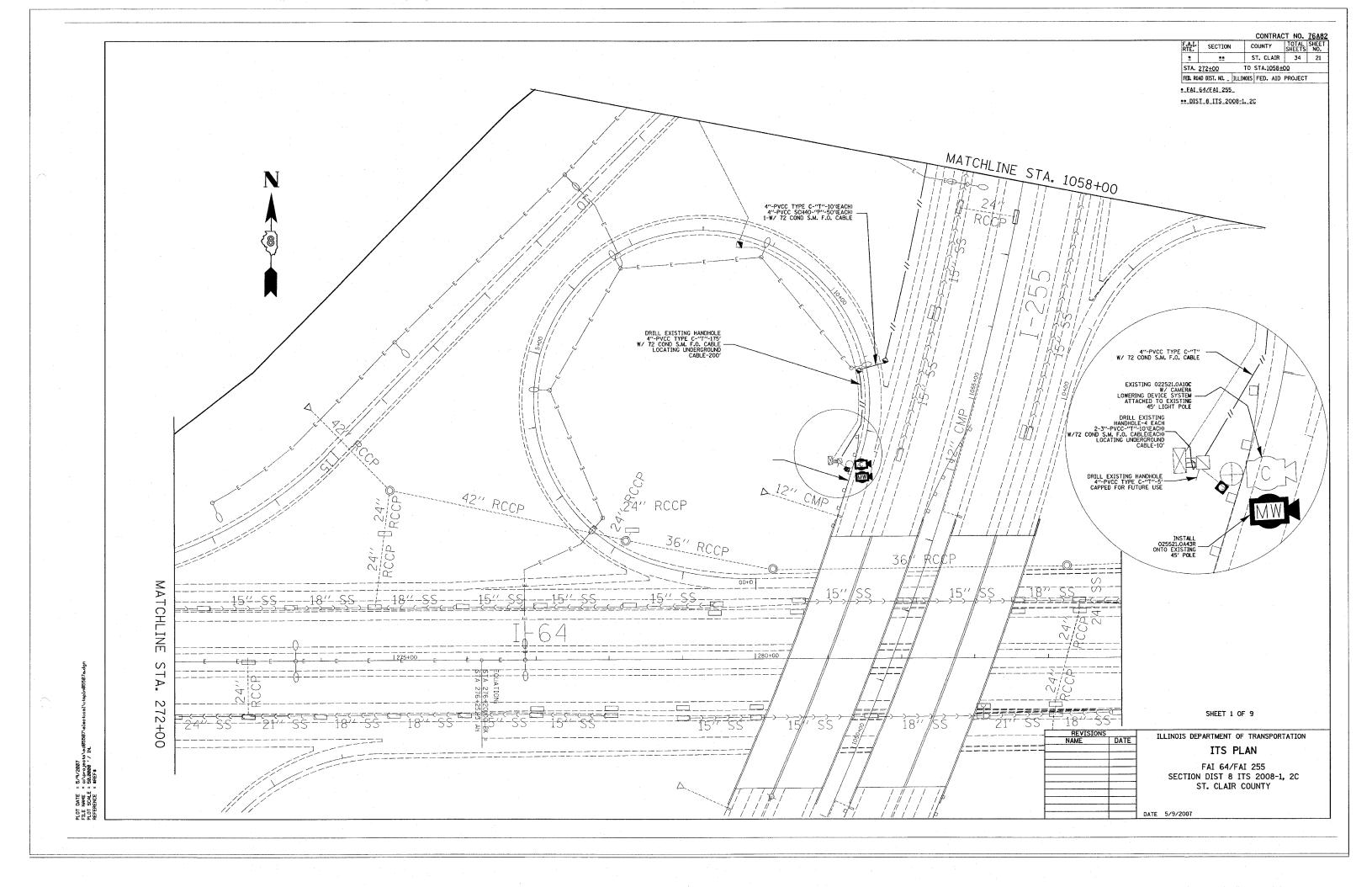
see detail (may be part of

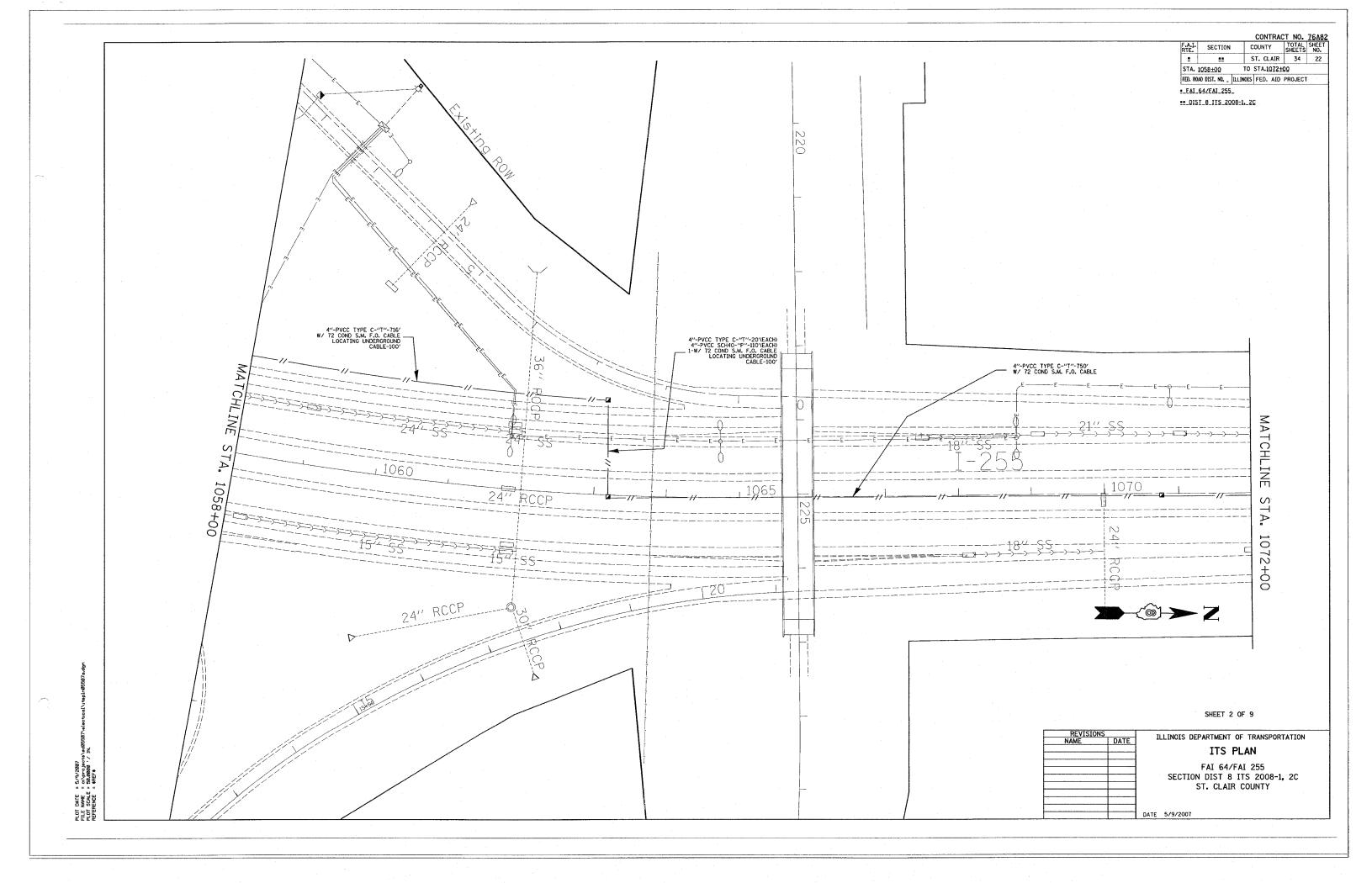
25(1) Chamfer

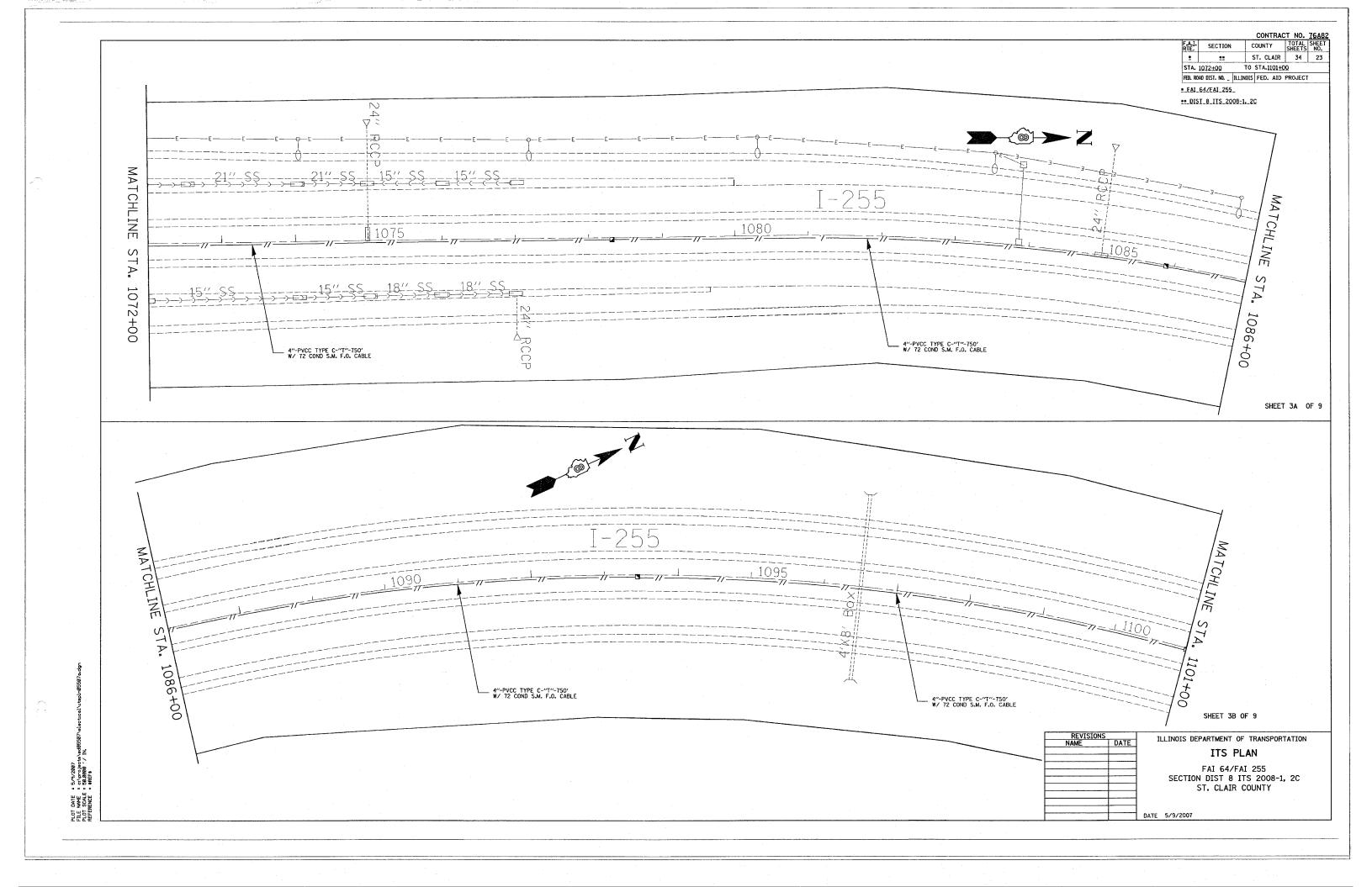
#4 spiral

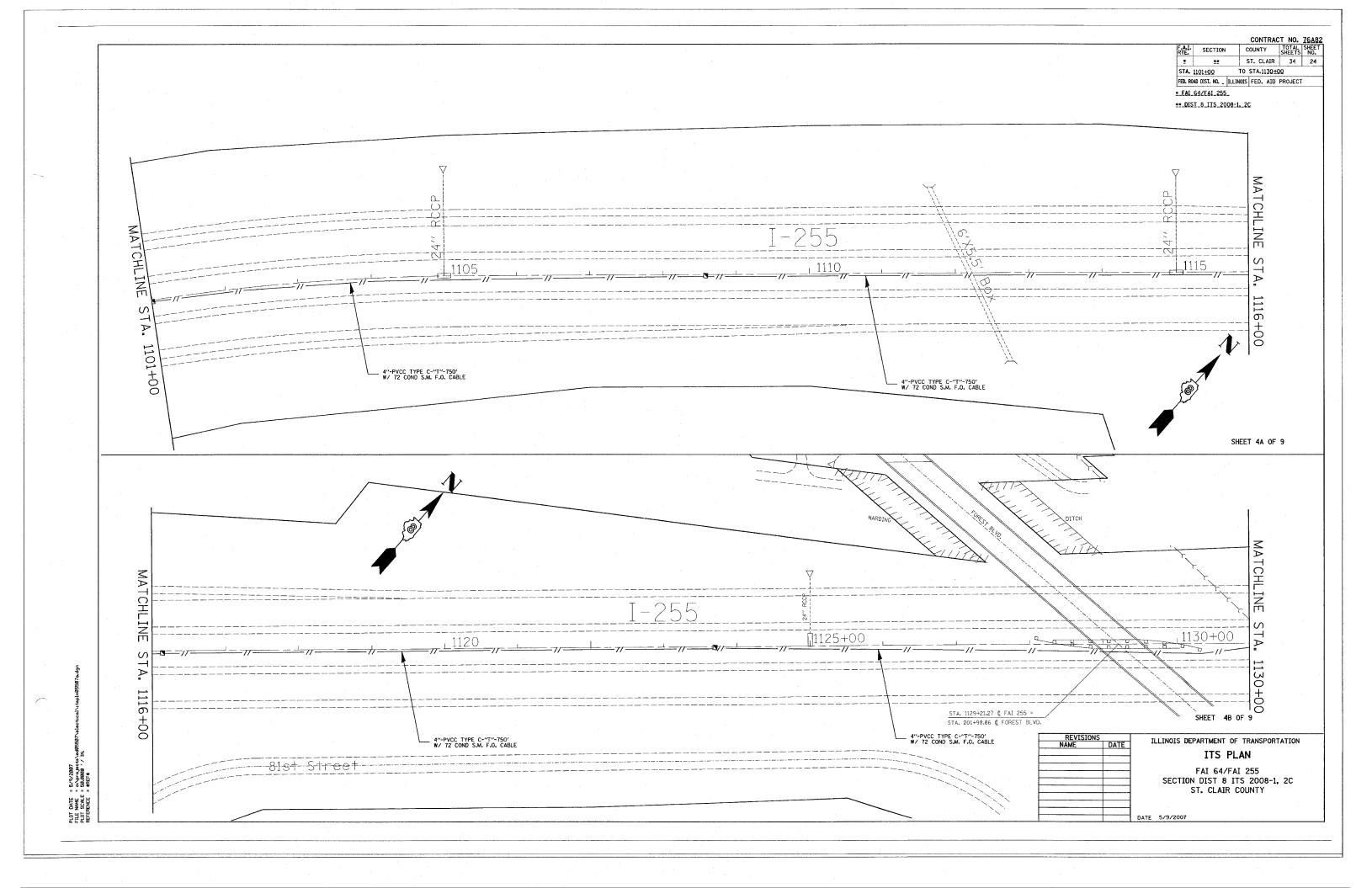
@ 150 (6) pitch (typ)

125 (5)









 CONTRACT NO. 7GA82

 F.A.I. RTE. SECTION
 COUNTY SHEETS NO.

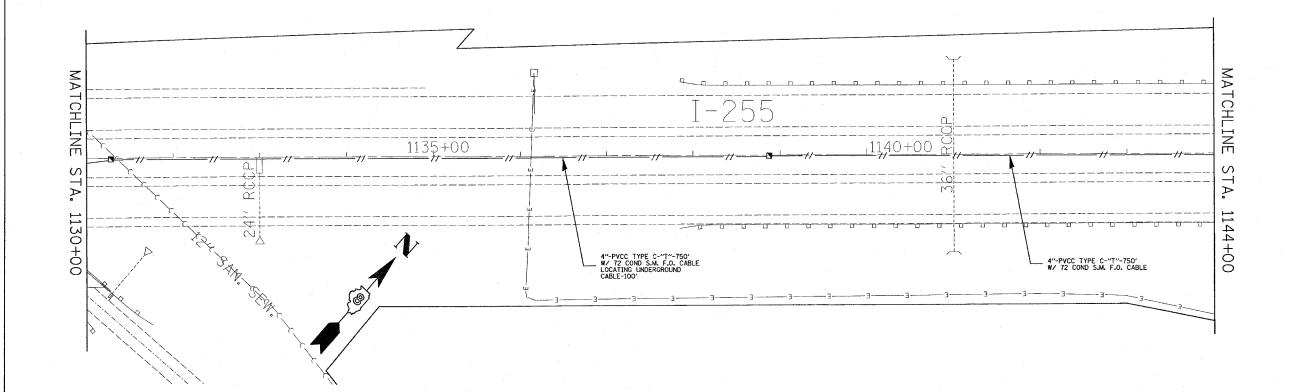
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 ST. CLAIR
 34

 25
 STA. 1130+00 TO STA.1144+00 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

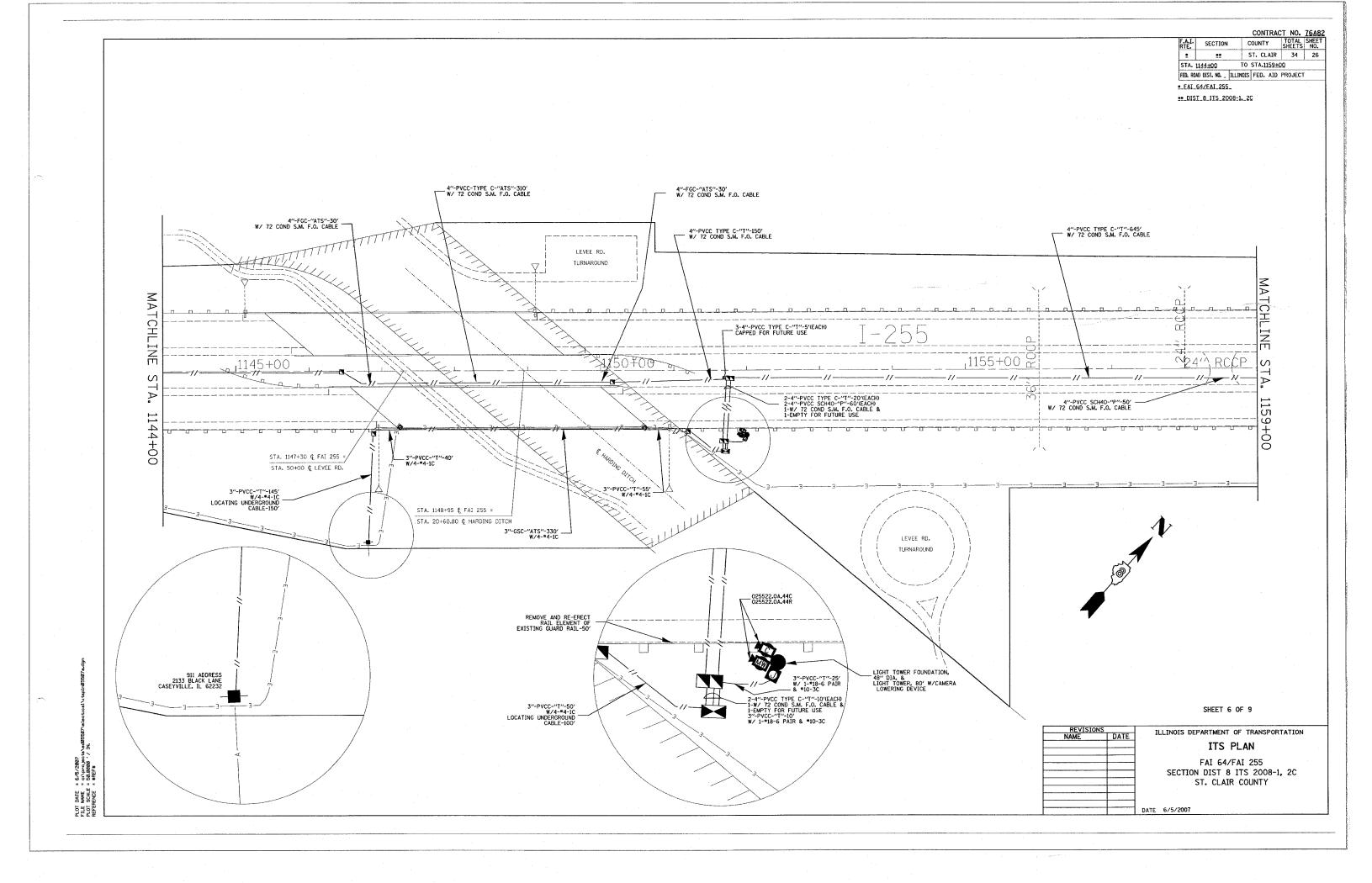
*_EAI_64/EAI_255_

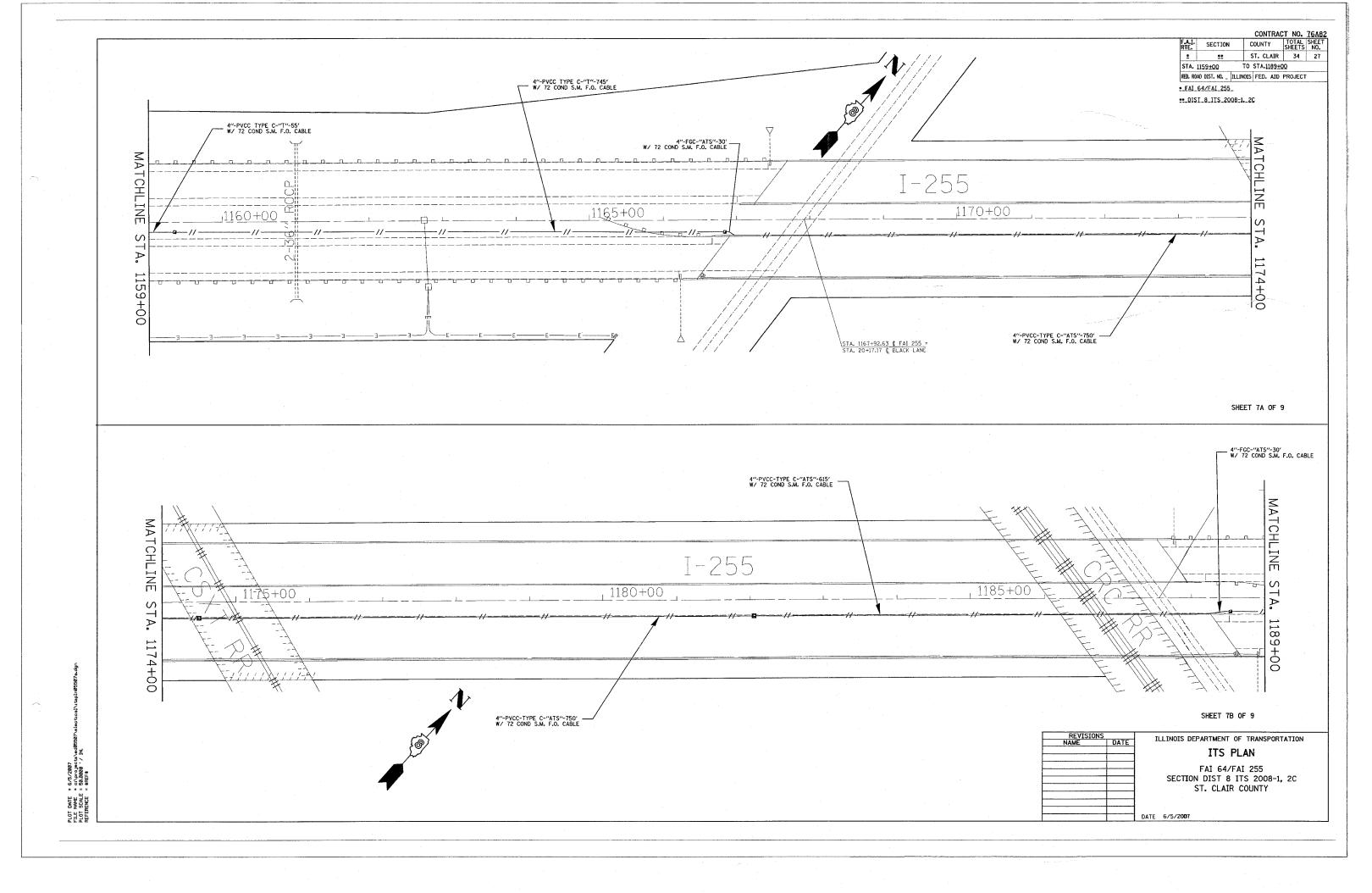
** DIST 8 IIS 2008-1. 20

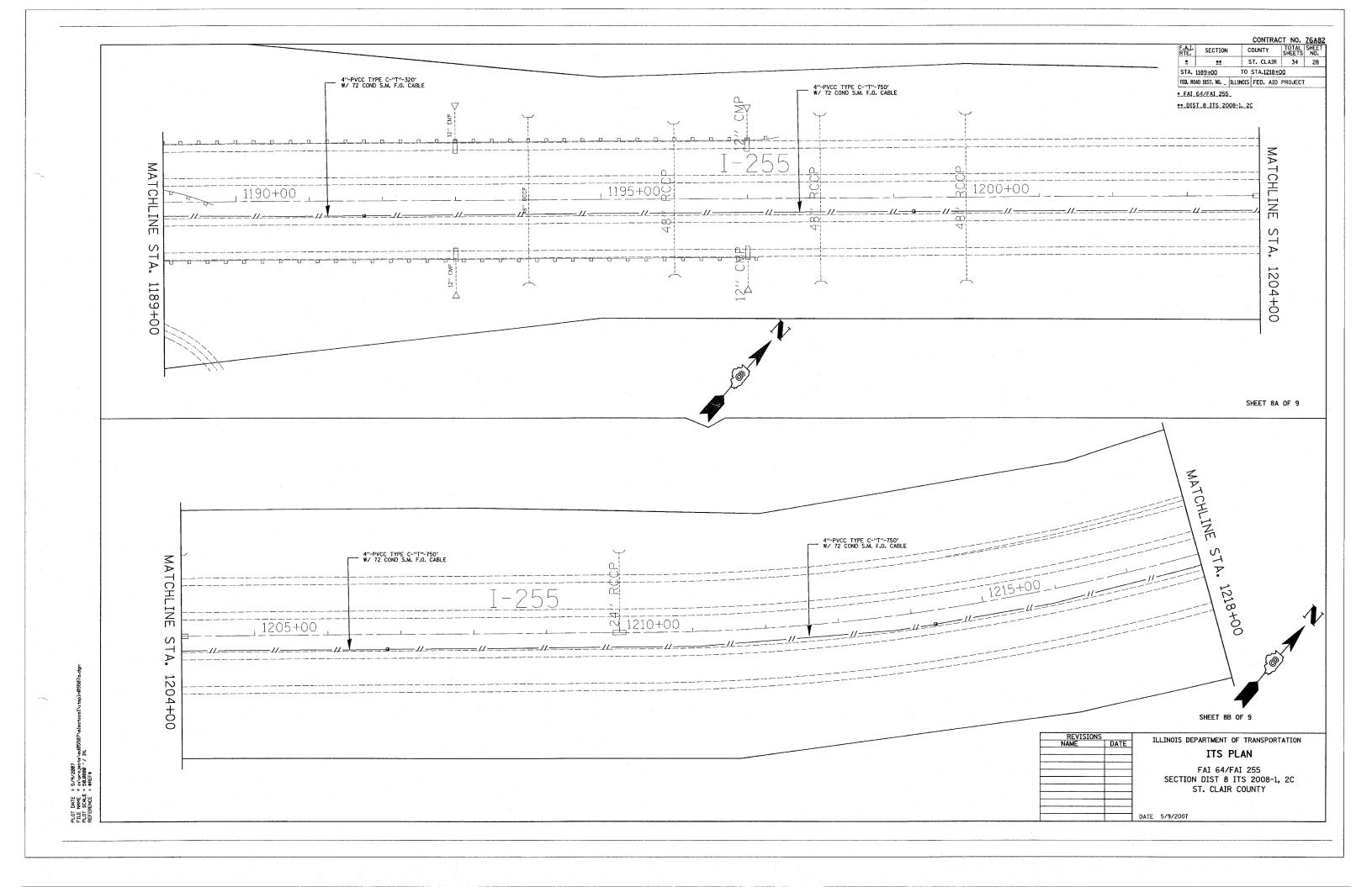


SHEET 5 OF 9

REVISION		T	LLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	11	ITS PLAN
			FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY
		DATE	5/9/2007







| CONTRACT NO. 16482 | COUNTY | TOTAL SHEET NO. | ST. CLAIR | 34 | 29 | F.A.I. SECTION STA. 1218+00 TO STA.___ FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT •_EAI_64/EAI_255_ ** DIST_8_HTS_2008-1._2C SPLICE TO THE EXISTING CONDUIT 4"-PVCC TYPE C-"T"-714" - W/ 72 COND S.M. F.O. CABLE LOCATING UNDERGROUND CABLE-10" 4"-PVCC TYPE C-"T"-745' W/ 72 COND S.M. F.O. CABLE 1218+00 MATCHLINE STA. 1230+00 (EX.)4"-PVCC TYPE C-"T"-90'_ W/ 72 COND S.M. F.O. CABLE (EX.)4"-PVCC TYPE C-"T"-5"_ W/. 72 COND S.M. F.O. CABLE SHEET 9 OF 9 ILLINOIS DEPARTMENT OF TRANSPORTATION PLOT DATE = 5/9/2007 FILE NAME = chyprojecta\edg5 PLOT SCALE = 50.0000 / IN. REFERENCE = \$REF\$ ITS PLAN FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY DATE 5/9/2007

PLOT DATE 5/9/2007 FILE BARE cubprojects&edo5507&ejec PLOT SCALE 500000 / IN. REFERENCE 8REF®

LOCATION (FIBERS ON NORTH SIDE)

LOCATION (FIBERS ON WEST SIDE)

TOTALS Ø Ø

LOCATION (FIBERS ON SOUTH SIDE)

FIBER	Ø255	21 . Ø	Ø25	522.0	Ø255	523.5
1-2			T		T	
3-4	N			S	T	
5-6	0	P.		-B-		-B-
7-8		Α		S	T	
9-10	F	S		S		S
11-12	I	Ť		-B-		-B-
13-14	В		T		T	
15-16	Ε	Н		S	T	
17-18	R	Ε		-B-		-B-
19-20		R		S	T	
21-22		ш		S		S
23-24				-B-		-B-
25-72				-UC-		-UC-
TOTALS	Ø	Ø	4	12	12	4

TOTAL TERMINATIONS=20 TOTAL SPLICES=16

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

FIBER	0255	025521.0		522.0	Ø255	523.5
1-2		S	T			
3-4	Т			S		
5-6		-B-		-B-		
7-8		S		S		
9-10		S		S		S
11-12		-B-		-B-		
13-14		S	۲			
15-16	T			S		
17-18		-B-		-B-		
19-20		S		S		
21-22		S		S		S
23-24		-B-		-B-		
25-72		-UC-		-UC-		
TOTALS	4	12	4	12	Ø	4

LOCATION (FIBERS ON EAST SIDE)

FIBER	0255	21.0		
1-2				
3-4	N			
5-6	0	Р		
7-8		Α		
9-10	F	S		
11-12	I	T		
13-14	В			
15-16	E	Н		
17-18	R	E		
19-20		R		
21-22		Ε		
23-24				
25-72				
TOTALS	Ø	Ø		

		CISCO	SWITCHES		WIRED COMMUNICATION			
LOCATION	WS-C356Ø-24PS-E	WS-CE5ØØG-12TC	WS-C375ØG-12S	WS-C2955S-12	SFP-GE-L	GLC-FE-100LX	GLC-T	DATA CONVERTER
MPØ25521.Ø CABINET (EXISITING)				1				1
MPØ25522.Ø CABINET	1		. !		1			1
MPØ25523.5 CABINET (EXISITING)					1	1		
TOTALS	S: 1			1	2	1		2

*SFP-GE-L =STANDARD FIBER SFP GLC-FE-100LX = 100 MEG SMF SFP

REVISIONS	3	
NAME	DATE	
	1	
	1	

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 76A82

COUNTY TOTAL SHEET SHEETS NO.

ST. CLAIR 34 30

TO STA._ FEBL ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

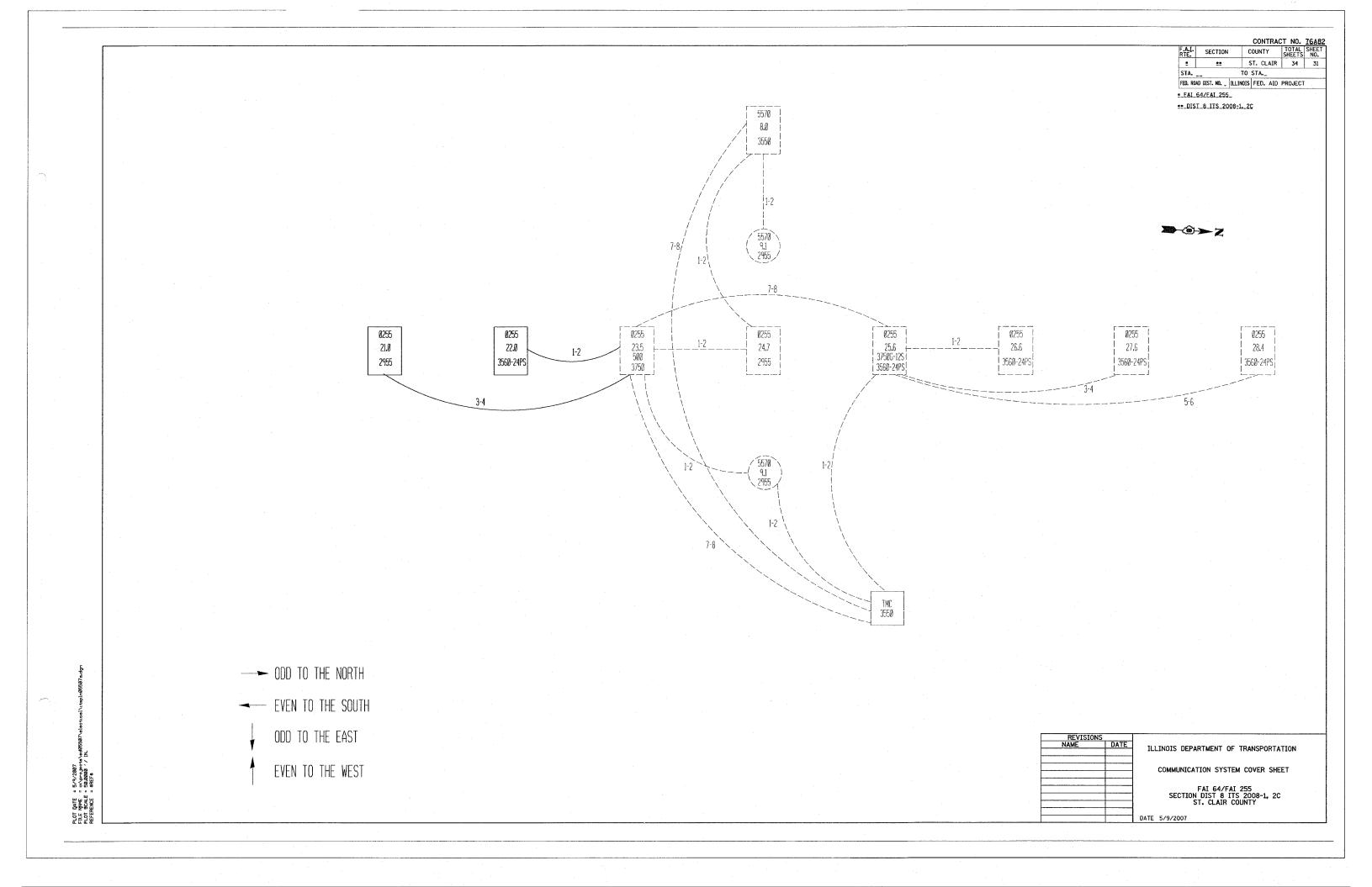
F.A.I. SECTION

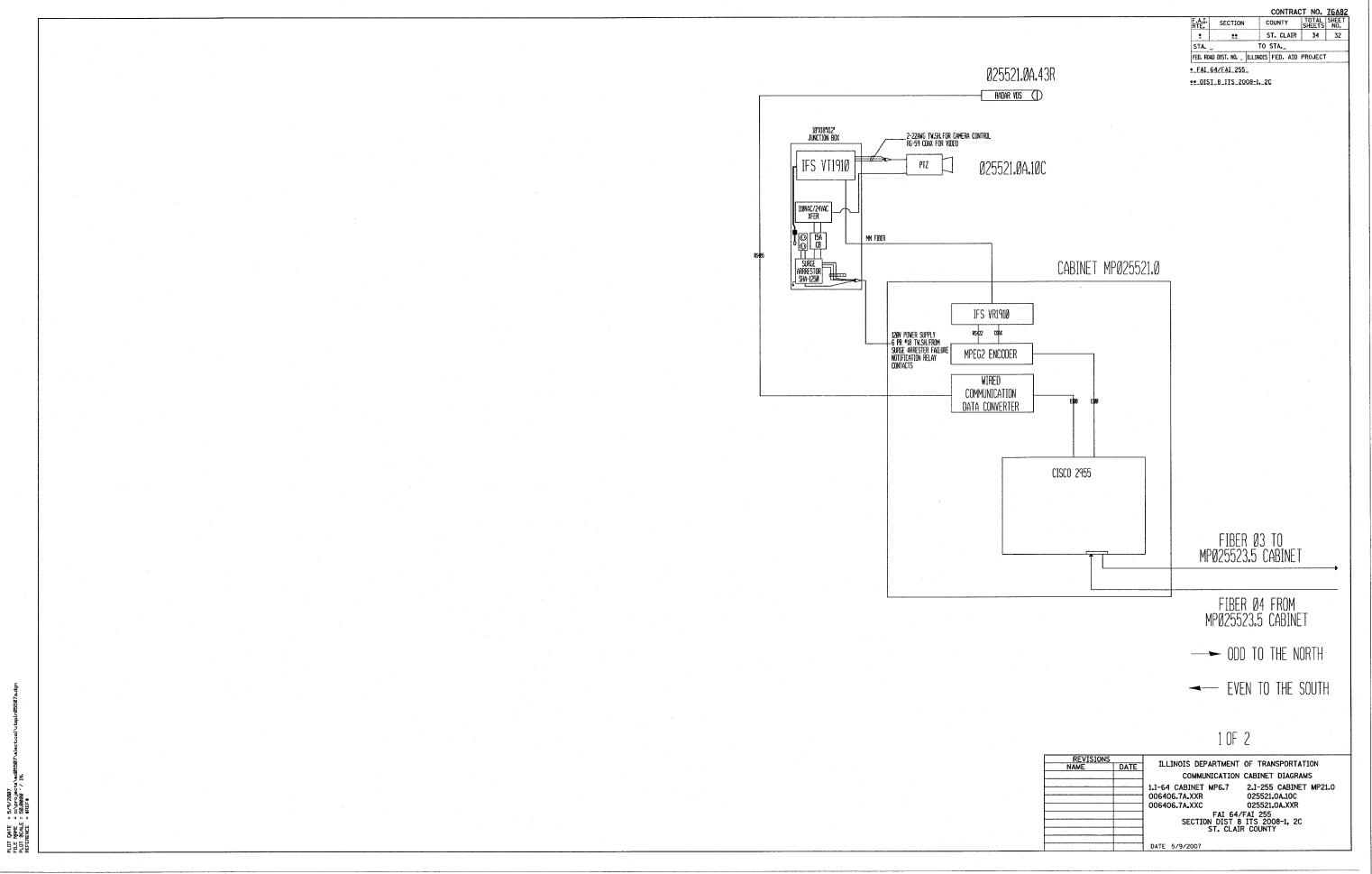
-_EAI_64/EAI_255_ **_DIST_8_HIS_2008-1._2C

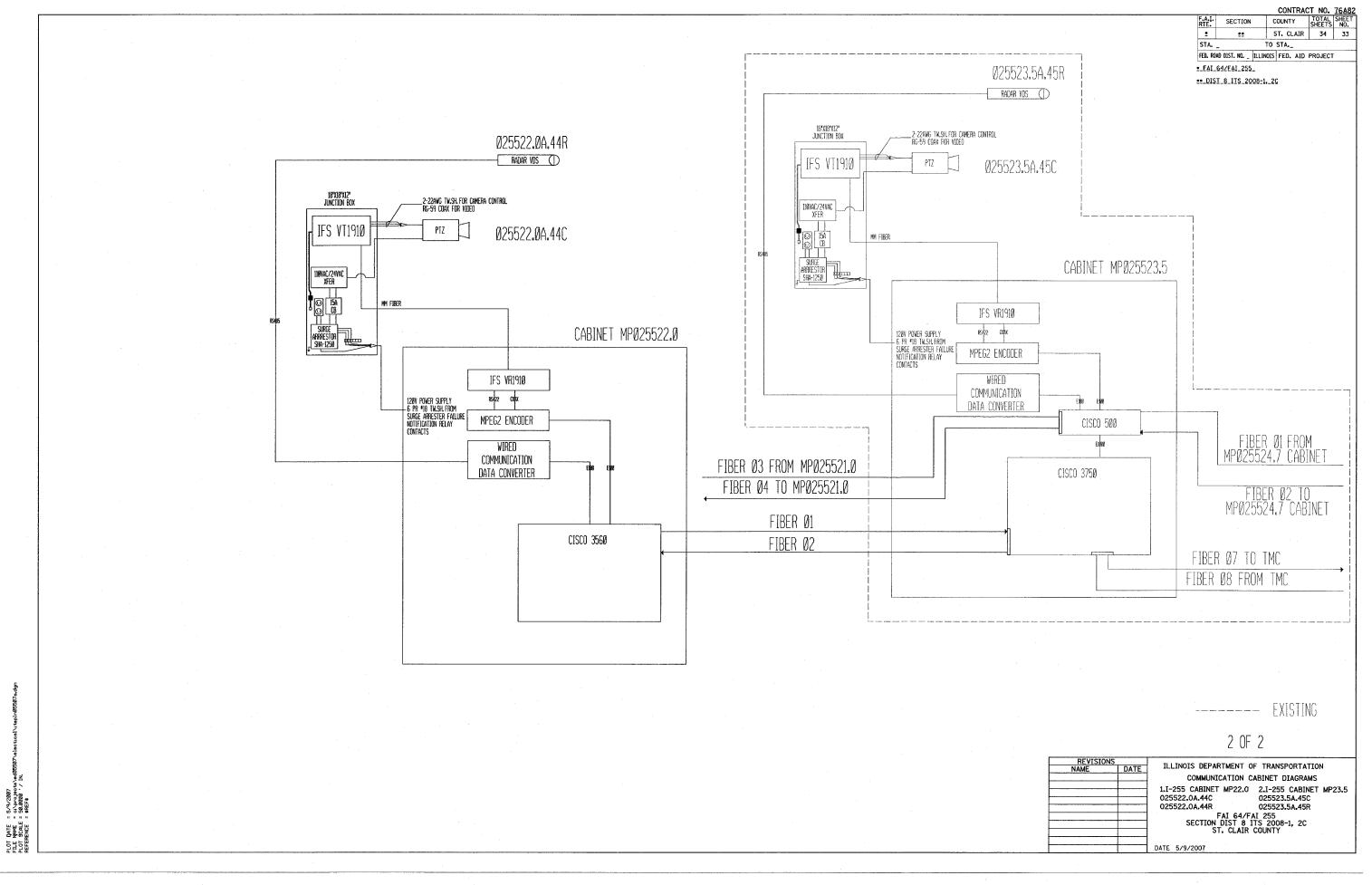
STA. __

TERMINATION-SPLICES TOTALS & SWITCH SCHEDULE FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

DATE 5/9/2007







			CON	TRA	CT	NO.	76A8
F.A.I. RTE.	SECTION	С	OUNT	Y	SI	OTAL IEETS	SHEET NO.
•	**	S	T. CL	AIR		34	34
STA.	1101±00	ТО	STA.1	130±	QQ		
FED. RO	AD DIST. NO	ILLINOIS	FED.	AID	PR	OJEC1	

•_EAI_64/EAI_255_ ••_DIST_8_ITS_2008-1._2C

Illinois Depart of Transportat Division of Highways Illinois Department of Transpo	ion			_	OIL BORING LOG	Date	e <u>1</u> of .
ROUTE FAI 255 DESCRIPTION	ON				-255 NB, just north of Harding Ditch LOGGED	BY Sa	ırah Wiszkoi
SECTION Dist 8 ITS 2007-2, 2b							
COUNTY St. Clair DRILLI	NG ME	THÖD			Hand Auger HAMMER TYPE		
STRUCT. NO. NA Station NA	D E	B L O	C	M O i	Surface Water Elev. ft Stream Bed Elev. ft		
BORING NO. 2 Station 1152+00 Offset 87,00ft Right	H	w s	Ou	S T	Groundwater Elev.: First Encounter Dry_Holeft		
Ground Surface Elev.	ft (ft)	(46")	(tsf)	(%)	Upon Completion ft After Hrs ft	<u> </u>	$\bot\bot$
Brown Silt LOAM (Fill)			1.25	22			
			1.0	22			
•		-	1.0	24			
	_		0.5	24		-	
Brown SILT	-5		1.0	25			
			1.5	19			
			0.75	17			
	_		1.5	16			
(Dark Brown)		I	0.5	16			
Brown Silt LOAM	-10		2,5	22			
Reddish Brown SILT			1.75	18			
			1.75	18			
Brown Silt LOAM	-	Γ	3,25	17			
End of Hand Auger	_						
Pocket Penetrometer used for Qu	15						
	_						
	-16						
	_	1					
	_	1					
	-20					\perp	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

FAI 64/FAI 255 SECTION DIST 8 ITS 2008-1, 2C ST. CLAIR COUNTY

PLOT DATE: 5/9/2007

c:@projects&edO5507&electical&itspinO5507a.dgr *REF-*REF-

*\$DATE\$\$ 5/9/2007 c:@projects&ed05507