

**LEGEND**

- SEEDING, CLASS 2  
TOPSOIL PLACE, 6"
- SEEDING, CLASS 2A  
TOPSOIL PLACE, 6"
- SEEDING, CLASS 3  
TOPSOIL PLACE, 6"
- SEEDING, CLASS 4 (MODIFIED)
- SEEDING, CLASS 5 (MODIFIED)  
TOPSOIL PLACE, 6"
- SODDING, SALT TOLERANT  
TOPSOIL PLACE, 6"
- KC = KENTUCKY COFFEETREE
- WO = WHITE OAK
- ACP = ARISTOCRAT CALLERY PEAR
- CCP = CHANTICLEER CALLERY PEAR
- ABCP = AUTUMN BLAZE CALLERY PEAR

FINAL LOCATION OF TREES TO BE APPROVED BY THE ENGINEER

IL ROUTE 120

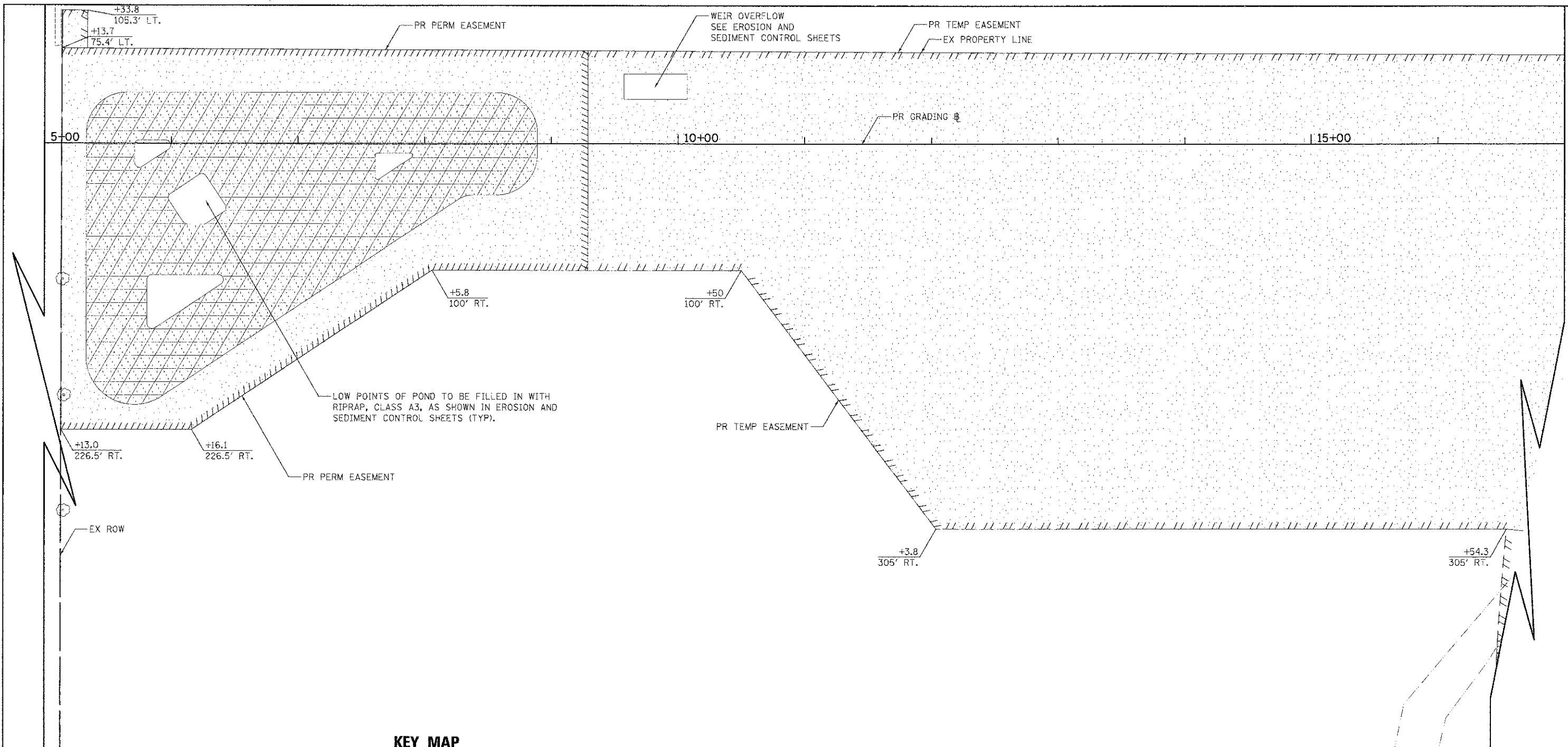


USER NAME = ods	DESIGNED - MJP	REVISED -
FILE NAME = ... \2107: snt: 2ndsep24.dgn	DRAWN - MJP	REVISED -
PLOT SCALE = 50.0000 1/ in.	CHECKED - DNM	REVISED -
PLOT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

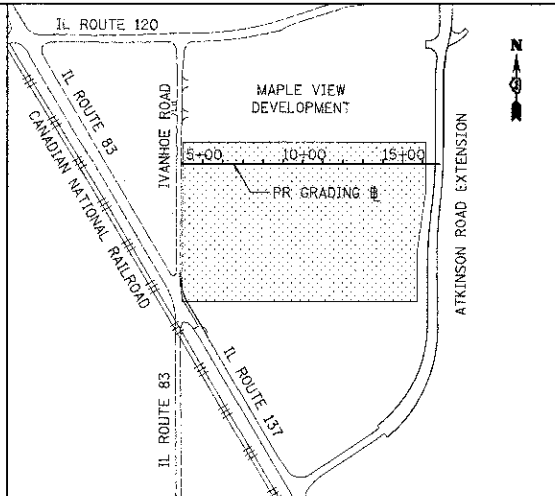
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL ROUTE 120 LANDSCAPING</b>	
SCALE: 1" = 50'	SHEET NO. 4 OF 5 SHEETS
STA. 115+60	TO STA. 126+07

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	101
CONTRACT NO. 63640			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

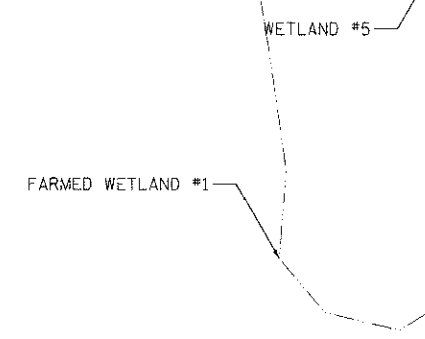


**KEY MAP**



**LEGEND**

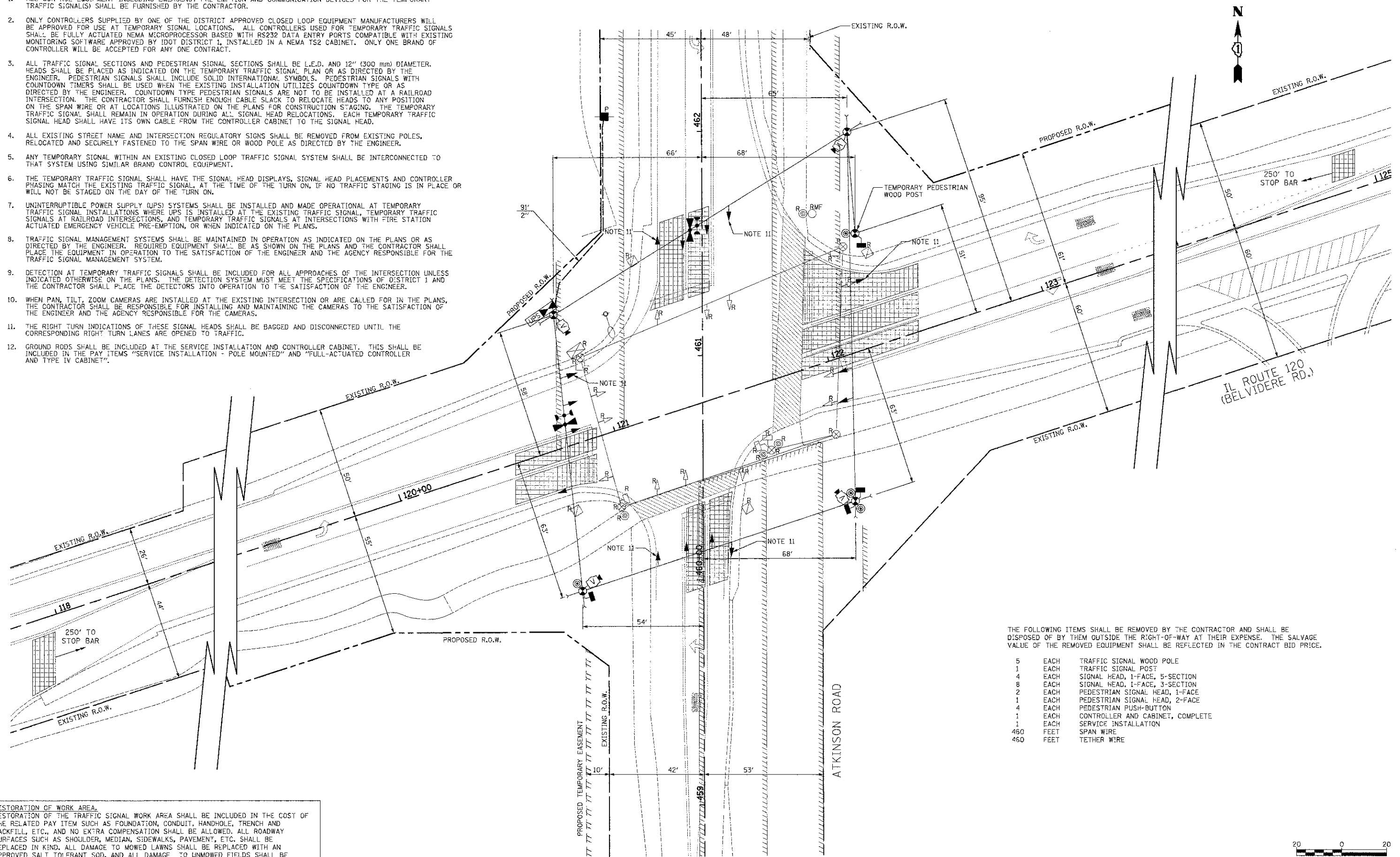
- SEEDING, CLASS 2  
TOPSOIL PLACE, 6"
- SEEDING, CLASS 2A  
TOPSOIL PLACE, 6"
- SEEDING, CLASS 3  
TOPSOIL PLACE, 6"
- SEEDING, CLASS 4 (MODIFIED)  
SEEDING, CLASS 5 (MODIFIED)  
TOPSOIL PLACE, 6"
- SODDING, SALT TOLERANT  
TOPSOIL PLACE, 6"



	USFR NAME = eds	DESIGNED - MJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ATKINSON ROAD</b> <b>LANDSCAPING</b>	F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 102
	FILE NAME = ...2189-shr-landscp05.dgn	DRAWN - MJP	REVISED -			SCALE: 1" = 40'	SHEET NO. 5 OF 5 SHEETS	STA. 5+00 TO STA. 17+00	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	CONTRACT NO. 63640
PLOT SCALE = 40,00000' / 1" = 10'	CHECKED - DNM	REVISED -	REVISED -							
PLOT DATE = 2/2/2012	DATE = 02/06/12	REVISED -	REVISED -							

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA 152 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE L.E.D. AND 12" (300 mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
11. THE RIGHT TURN INDICATIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED UNTIL THE CORRESPONDING RIGHT TURN LANES ARE OPENED TO TRAFFIC.
12. GROUND RODS SHALL BE INCLUDED AT THE SERVICE INSTALLATION AND CONTROLLER CABINET. THIS SHALL BE INCLUDED IN THE PAY ITEMS "SERVICE INSTALLATION - POLE MOUNTED" AND "FULL-ACTUATED CONTROLLER AND TYPE IV CABINET".



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

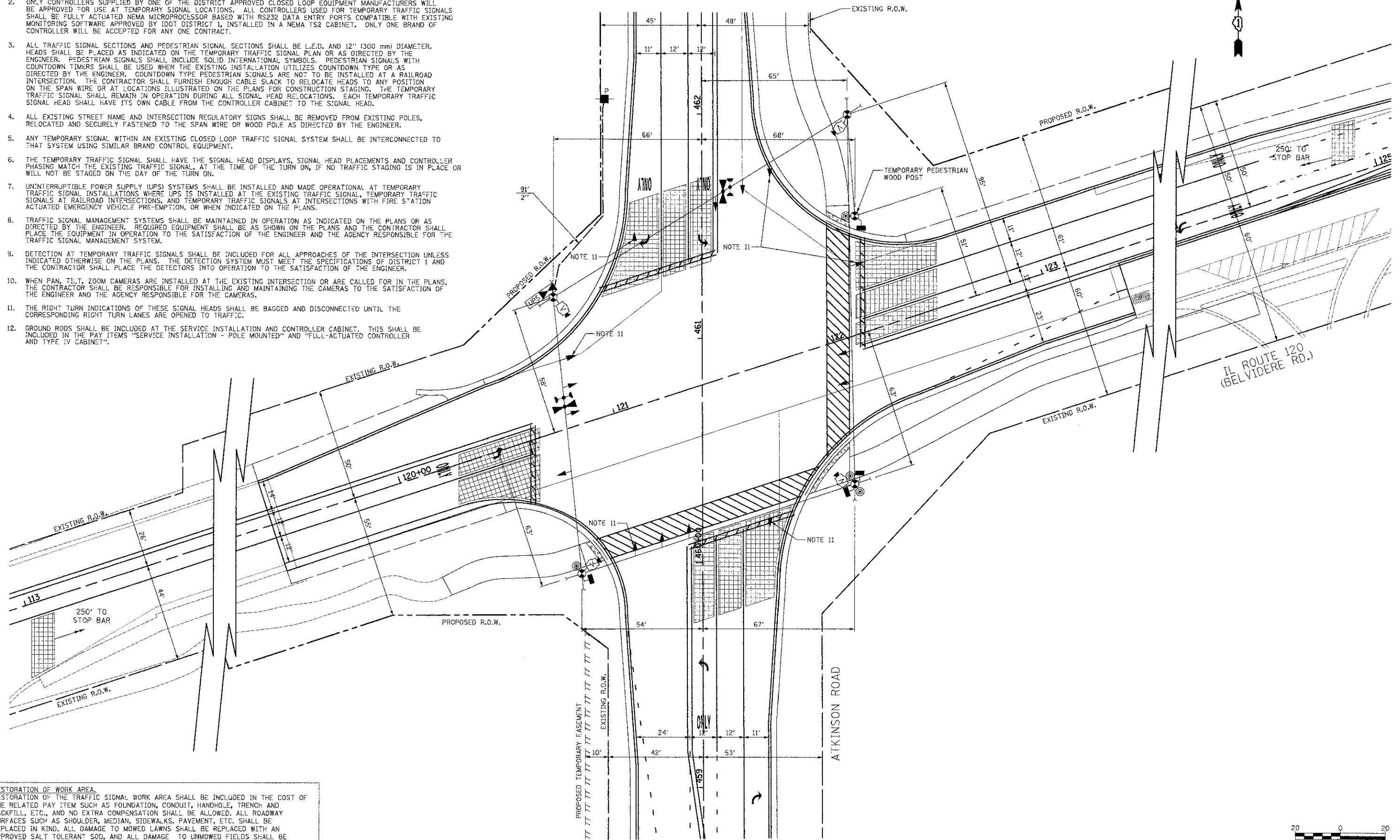
5	EACH	TRAFFIC SIGNAL WOOD POLE
1	EACH	TRAFFIC SIGNAL POST
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	CONTROLLER AND CABINET, COMPLETE
1	EACH	SERVICE INSTALLATION
450	FEET	SPAN WIRE
450	FEET	TETHER WIRE

RESTORATION OF WORK AREA.  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



NOTES FOR TEMPORARY TRAFFIC SIGNALS

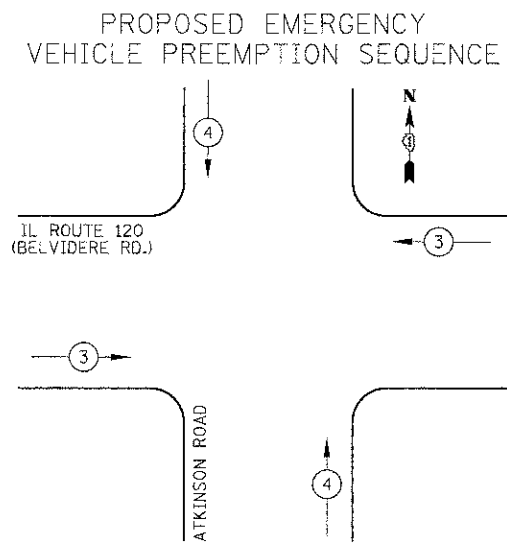
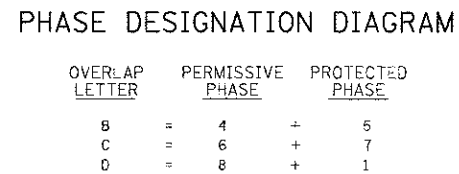
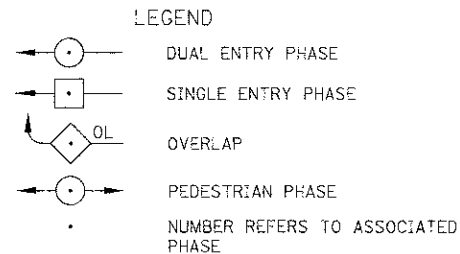
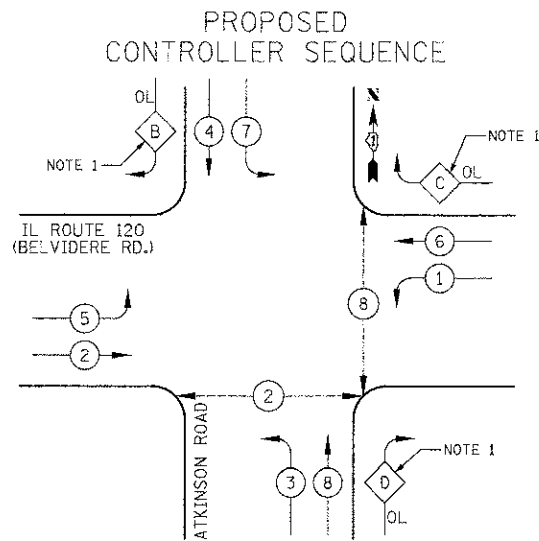
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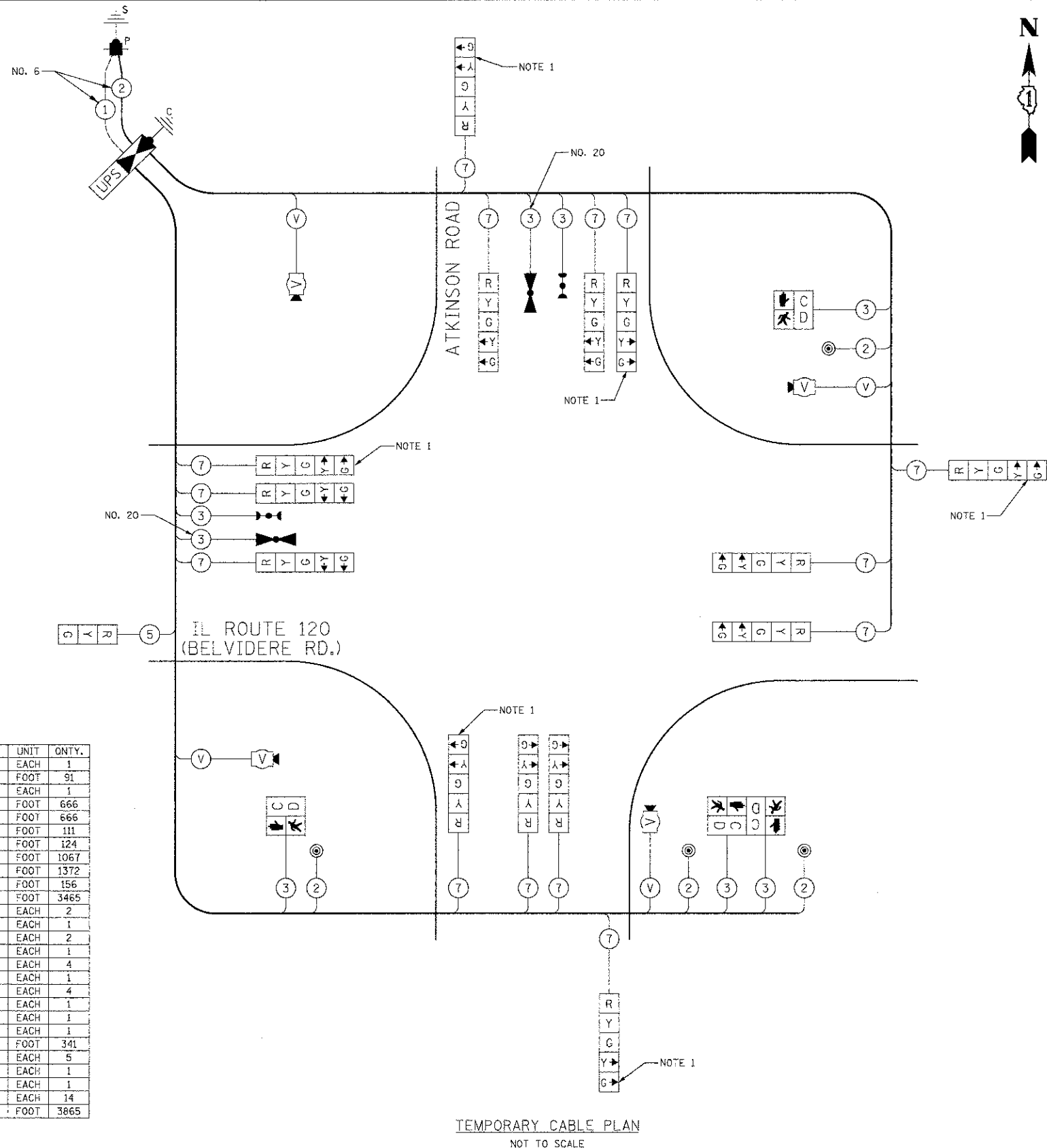
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	USER NAME : eds	DESIGNED : BRD	REVISED :	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 120 (BELVIDERE ROAD) AT ATKINSON ROAD</b> <b>TRAFFIC SIGNAL PLAN - FINAL CONFIGURATION</b>	F.A.U. /	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME : ...120 Atkinson-Temp-Signal.Plot	DRAWN : MFB	REVISED :			198	00-00045-00-PV	LAKE	195	104
PLOT SCALE : 20,0000 / 1" = 20' PLOT DATE : 2/2/2012	CHECKED : JJE	DATE : 02/06/12	REVISED :	SCALE: 1" = 20' SHEET NO. 2 OF 3 SHEETS STA. TO STA.		CONTRACT NO. 63640 FED. ROAD DIST. NO. 1 ILLINOIS, FED. AID PROJECT				



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		



### SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	91
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
SPAN WIRE	FOOT	666
TETHER WIRE	FOOT	666
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	111
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	124
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 2C	FOOT	1067
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	1372
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 6C	FOOT	156
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	3465
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	341
TRAFFIC SIGNAL WOOD POLE, 45 FT, CLASS 5	EACH	5
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	14
AERIAL CABLE REMOVAL	FOOT	3865

\* 100% COST TO VILLAGE OF GRAYSLAKE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	15		17	0.50	128
(YELLOW)	15		25	0.25	94
(GREEN)	15		15	0.25	56
ARROW	28		12	0.10	34
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
TOTAL =					662

ENERGY COSTS TO: VILLAGE OF GRAYSLAKE  
10 SOUTH SEYMOUR AVENUE  
GRAYSLAKE, IL 60030

ENERGY SUPPLY: CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED

### NOTES FOR TEMPORARY TRAFFIC SIGNALS

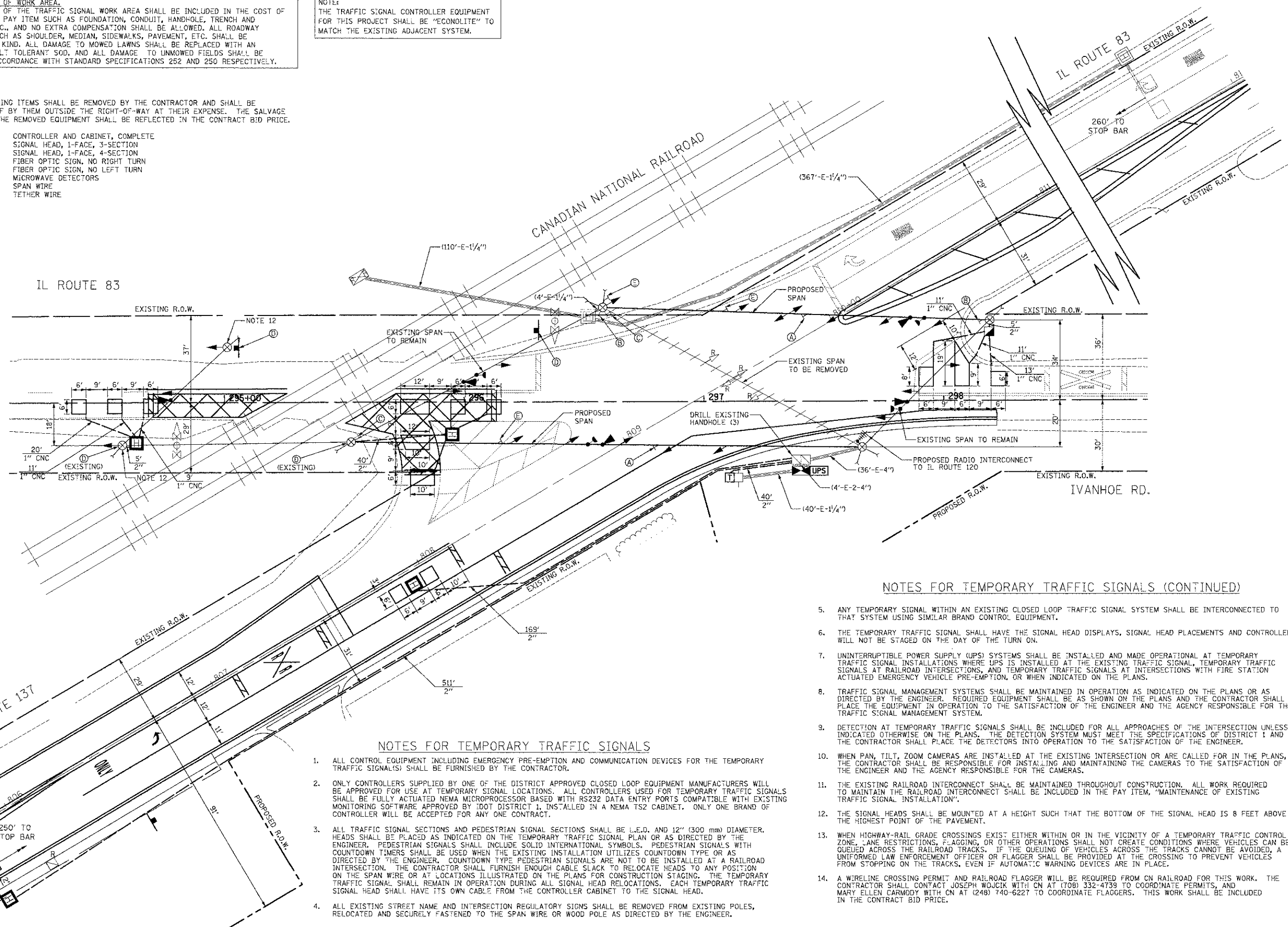
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**NOTE:**  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 10 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
- 2 EACH FIBER OPTIC SIGN, NO RIGHT TURN
- 2 EACH FIBER OPTIC SIGN, NO LEFT TURN
- 2 EACH MICROWAVE DETECTORS
- 133 FEET SPAN WIRE
- 133 FEET TETHER WIRE



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**NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)**

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
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11. THE EXISTING RAILROAD INTERCONNECT SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK REQUIRED TO MAINTAIN THE RAILROAD INTERCONNECT SHALL BE INCLUDED IN THE PAY ITEM, "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION".
12. THE SIGNAL HEADS SHALL BE MOUNTED AT A HEIGHT SUCH THAT THE BOTTOM OF THE SIGNAL HEAD IS 8 FEET ABOVE THE HIGHEST POINT OF THE PAVEMENT.
13. WHEN HIGHWAY-RAIL GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE RAILROAD TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.
14. A WIRELINE CROSSING PERMIT AND RAILROAD FLAGGER WILL BE REQUIRED FROM CN RAILROAD FOR THIS WORK. THE CONTRACTOR SHALL CONTACT JOSEPH WOJCIK WITH CN AT (708) 332-4739 TO COORDINATE PERMITS, AND MARY ELLEN CARMODY WITH CN AT (248) 740-6227 TO COORDINATE FLAGGERS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.



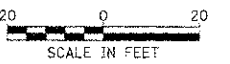
(A) **LEFT ON GREEN ARROW ONLY**  
 R 10-5  
 24"x30"  
 (TYP.)  
 TYPE 1  
 (2 REQUIRED)

(B) **FIBER OPTIC BLANKOUT SIGN TO BE REMOVED**  
 R 3-2

(C) **FIBER OPTIC BLANKOUT SIGN TO BE REMOVED**  
 R 3-3

(D) **DO NOT STOP ON TRACKS**  
 R 8-8  
 24"x30"  
 2 REQUIRED  
 (SEE PAVEMENT MARKING AND SIGNING PLAN)

(E) **NO TURN ON RED**  
 R 10-11c  
 24"x30"  
 (TYP.)  
 TYPE 1  
 (3 REQUIRED)



USFR NAME = eds  
 FILE NAME = ...N4-R183-Temp\_Signal\_Plan.dwg  
 PLOT SCALE = 20.0000 / 1 in.  
 PLOT DATE = 2/2/2012

DESIGNED - BRD  
 DRAWN - MFB  
 CHECKED - JJE  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 137 AND IVANHOE ROAD  
 TRAFFIC SIGNAL MODIFICATION PLAN**

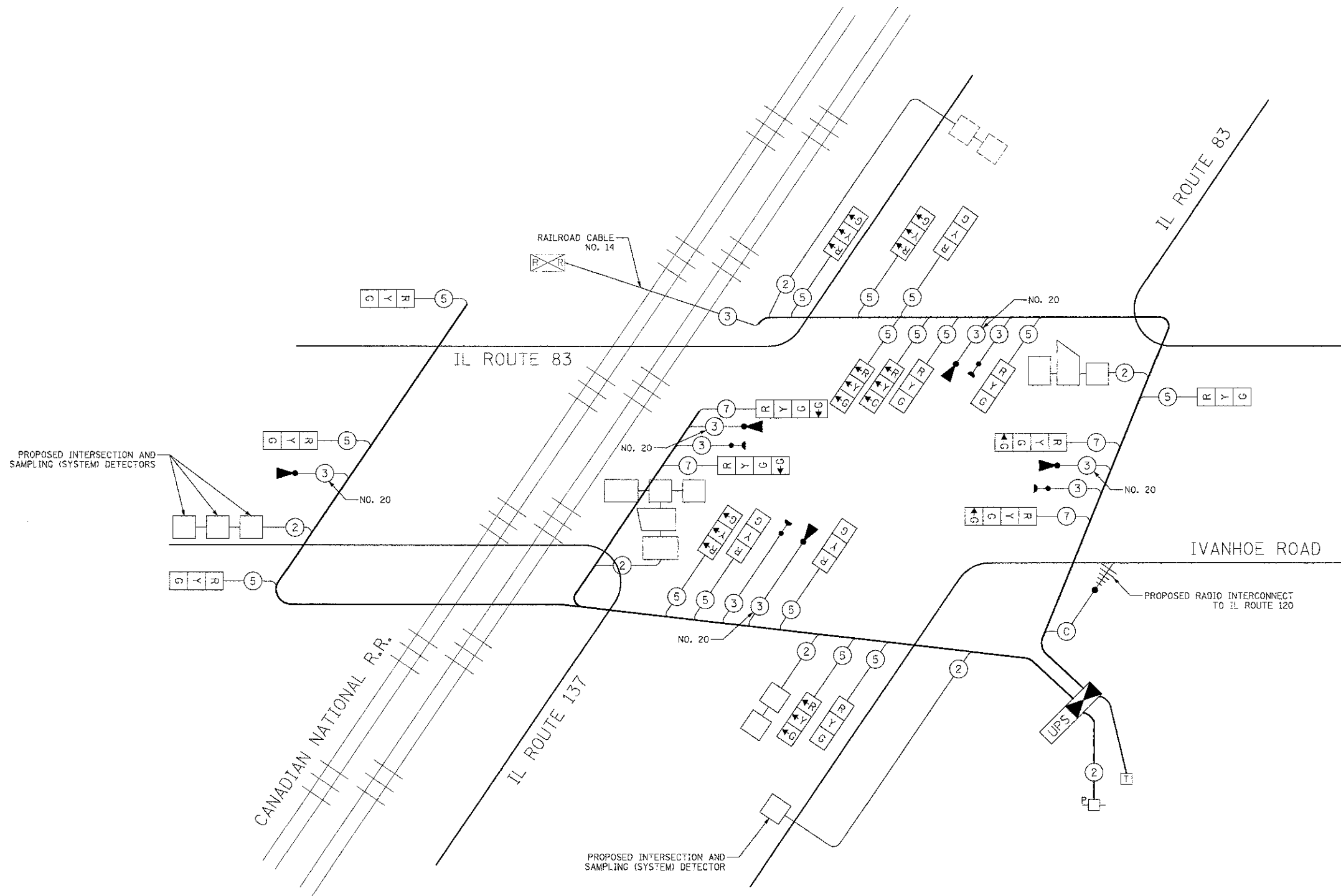
SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 106
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ. FT.	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	770
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
SPAN WIRE	FOOT	395
TETHER WIRE	FOOT	395
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	242
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	968
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	242
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1441
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	189
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	60
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	985
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	4363
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	942
ELECTRIC CABLE AERIAL SUSPENDED, RAILROAD, NO. 14 3C	FOOT	295
ELECTRIC CABLE AERIAL SUSPENDED, LEAD-IN, NO. 14 1 PAIR	FOOT	1046
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	477
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1854
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
RAILROAD PROTECTIVE LIABILITY INSURANCE	L. SUM	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1713
UNINTERRUPTIBLE POWER SUPPLY SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	13
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, SPAN WIRE MOUNTED	EACH	4
AERIAL CABLE REMOVAL	FOOT	4115

\* 100% COST TO VILLAGE OF GRAYSLAKE



TEMPORARY CABLE PLAN  
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	20	17		0.50	170
(YELLOW)	20	25		0.25	125
(GREEN)	24	15		0.25	94
ARROW	-	12		0.10	
PED. SIGNAL	-	25		1.00	
CONTROLLER	1	100		1.00	100
L.E.D. SIGNS	-	105		0.10	
WIRELESS VEH DET.	-	10		1.00	
FLASHER				0.50	
TOTAL =					469

ENERGY COSTS TO: VILLAGE OF GRAYSLAKE  
10 SOUTH SEYMOUR AVENUE  
GRAYSLAKE, IL 60030  
CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT  
FOR THIS PROJECT SHALL BE "ECONOLITE" TO  
MATCH THE EXISTING ADJACENT SYSTEM.

**PROPOSED SEQUENCE OF OPERATION**

MOVEMENT	→N	↗	↖	←3	↘C	F	L	A	S	H					
PHASE	2+5		2+6		3		4								
INTERVAL	1	2A	2B	3	4A	4B	5	6A	6B	7	8A	8B	8C	8D	
CHANGE TO		2+6			2+5 3 4			4 2+5 2+6			2+5 2+6				
IL ROUTE 137 NEAR LEFT AND TWO FAR LEFT SPAN WIRE SIGNALS	NWB	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
IL ROUTE 137 NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	NWB	G	G	G	G	Y	R	R	R	R	R	R	R	R	R
IL ROUTE 83 NEAR LEFT AND TWO FAR LEFT SPAN WIRE SIGNALS	SEB	R	R	R	G	Y	R	R	R	R	R	R	R	R	R
IL ROUTE 83 TWO NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS	SEB	R→	R→	R→	G→	Y→	R→	R→	R→	R→	R→	R→	R→	R→	R→
IVANHOE ROAD NEAR SIDE SPAN WIRE SIGNAL	SB	R	R	R	R	R	R	G	Y	R	R	R	R	R	R
IVANHOE ROAD FAR SIDE SPAN WIRE SIGNALS	SB	R	R	R	R	R	R	G	Y	R	R	R	R	R	R
IL ROUTE 83 (PRE-SIGNAL) ALL SIGNALS	NB	R	R	R	R	R	R	R	R	G	Y	R	R	R	R
IL ROUTE 83 (NORTH OF TRACKS) ALL SPAN WIRE SIGNALS	NB	R	R	R	R	R	R	R	R	G	Y	R	R	R	R

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION**

		1	1	3	3	5	5	7	7	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6										
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	3,4 OR 5	1E	2,4 OR 5	1G	3	1J	2,3 OR 6	4	1M	1N	1P	2,3 OR 4	1R	5						
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	3,4 OR 5	1E	2,4 OR 5	1G	3	1J	2,3 OR 6	4	1M	1N	1P	2,3 OR 4	1R	5						
IL ROUTE 137 NEAR LEFT AND TWO FAR LEFT SPAN WIRE SIGNALS	NWB	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←R	←R	←R	←R	◇
IL ROUTE 137 NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	NWB	G	Y	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	R	R	R	R	◇
IL ROUTE 83 NEAR LEFT AND TWO FAR LEFT SPAN WIRE SIGNALS	SEB	R	R	R	Y	R	G	G	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◇
IL ROUTE 83 TWO NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS	SEB	R→	R→	R→	Y→	R→	G→	G→	R→	R→	R→	R→	R→	R→	R→	R→	R→	R→	G→	R→	R→	R→	◇
IVANHOE ROAD NEAR SIDE SPAN WIRE SIGNAL	SB	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	R	G	R	R	◇
IVANHOE ROAD FAR SIDE SPAN WIRE SIGNALS	SB	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	R	G	R	R	◇
IL ROUTE 83 (PRE-SIGNAL) ALL SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	G	R	R	R	G	G	◇
IL ROUTE 83 (NORTH OF TRACKS) ALL SPAN WIRE SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	G	◇

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

**PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION**

		1	3	5	7	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	PREEMPTOR NUMBER 2													
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	3	5	7																		
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER						2	3	4	5														
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	3	4	5			
IL ROUTE 137 NEAR LEFT AND TWO FAR LEFT SPAN WIRE SIGNALS	NWB	←Y	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	△
IL ROUTE 137 NEAR RIGHT AND TWO FAR RIGHT SPAN WIRE SIGNALS	NWB	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	△
IL ROUTE 83 NEAR LEFT AND TWO FAR LEFT SPAN WIRE SIGNALS	SEB	R	R	Y	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	△
IL ROUTE 83 TWO NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS	SEB	R→	R→	Y→	R→	R→	R→	R→	R→	Y→	R→	R→	R→	R→	R→	R→	R→	R→	R→	R→	R→	R→	△
IVANHOE ROAD NEAR SIDE SPAN WIRE SIGNAL	SB	R	R	R	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	△
IVANHOE ROAD FAR SIDE SPAN WIRE SIGNALS	SB	R	R	R	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	△
IL ROUTE 83 (PRE-SIGNAL) ALL SIGNALS	NB	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	△
IL ROUTE 83 (NORTH OF TRACKS) ALL SPAN WIRE SIGNALS	NB	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	△

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE PREEMPTION INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

HOLD

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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PLOT DATE = 2/2/2012

DESIGNED - BRD  
DRAWN - MFB  
CHECKED - JJE  
DATE - 02/06/12

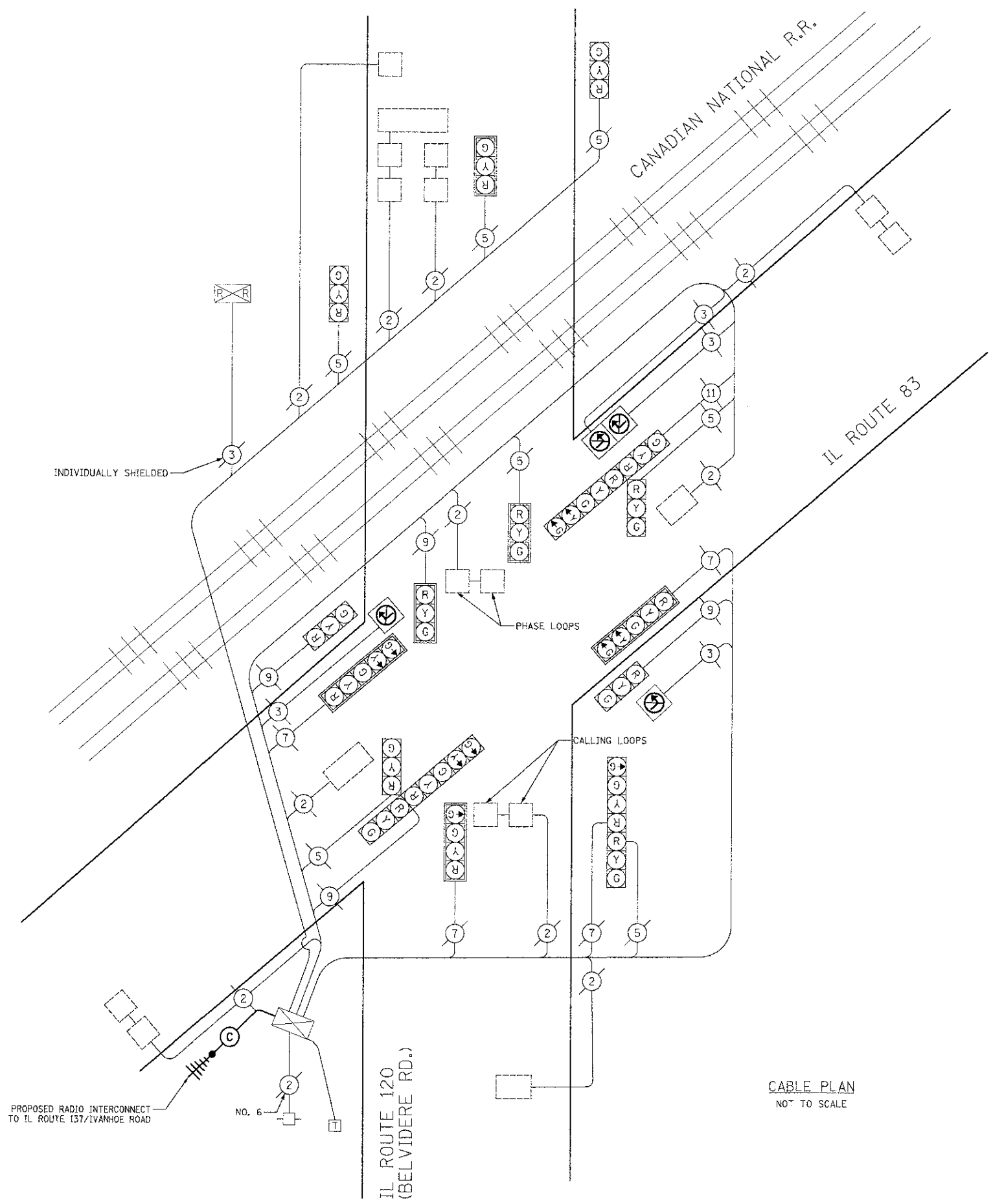
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REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 137 AND IVANHOE ROAD  
SEQUENCE OF OPERATION, PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE  
OF OPERATION, PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION  
SCALE: N.T.S. SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 198 SECTION 00-00045-00-PV COUNTY LAKE TOTAL SHEETS 195 SHEET NO. 108 CONTRACT NO. 63640  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18	135		0.50	1215
(YELLOW)	18	135		0.25	608
(GREEN)	18	135		0.25	608
ARROW	10	135		0.10	135
PED. SIGNAL	-	90		1.00	
CONTROLLER	1	100		1.00	100
ILLUMINATED SIGNS	4	252		0.10	101
FLASHER				0.50	
TOTAL =					2767

ENERGY COSTS TO: VILLAGE OF GRAYSLAKE  
10 SOUTH SEYMOUR AVENUE  
GRAYSLAKE, IL 60030  
ENERGY SUPPLY: CONTACT: MIKE LENOX  
PHONE: (815) 490-2869  
COMPANY: COM ED



DESIGNED - BRD  
DRAWN - MFB  
CHECKED - JJE  
DATE - 02/06/12

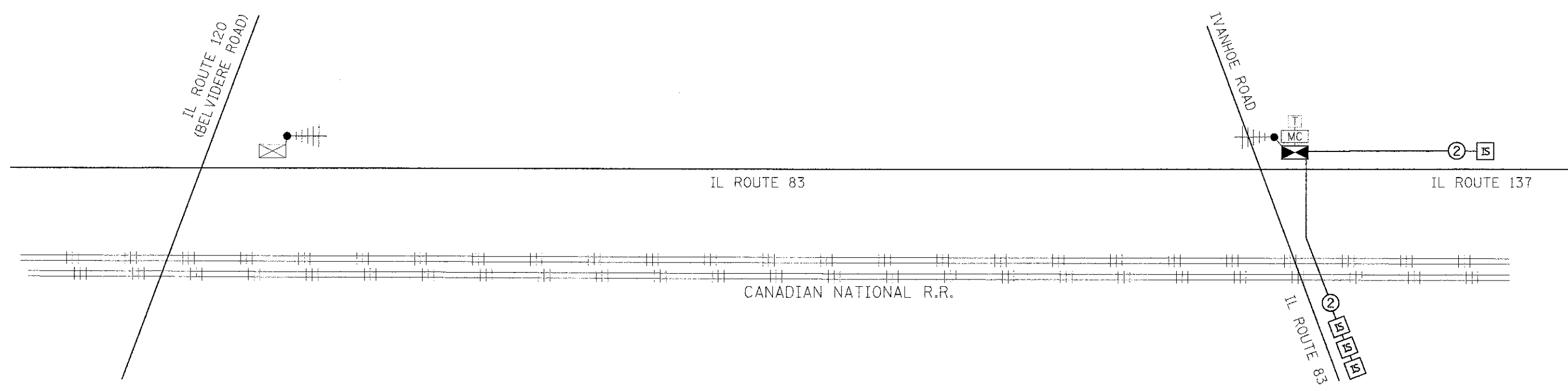
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 120 (BELVIDERE RD.)  
CABLE PLAN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	109
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				CONTRACT NO. 63640

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.



INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
WIRELESS INTERCONNECT (COMPLETE)	EACH	1

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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FILE NAME = ...N28-Atkinson-Inter-connect\_S  
PLOT SCALE = 20.0000' / in.  
PLOT DATE = 2/2/2012

DESIGNED - BRD  
DRAWN - MFB  
CHECKED - JUE  
DATE - 02/06/12

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC

IL ROUTE 83  
FROM IL ROUTE 120 (BELVIDERE RD.) TO IVANHOE ROAD

SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

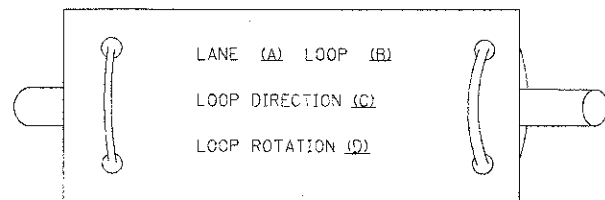
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	110
CONTRACT NO. 63640				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

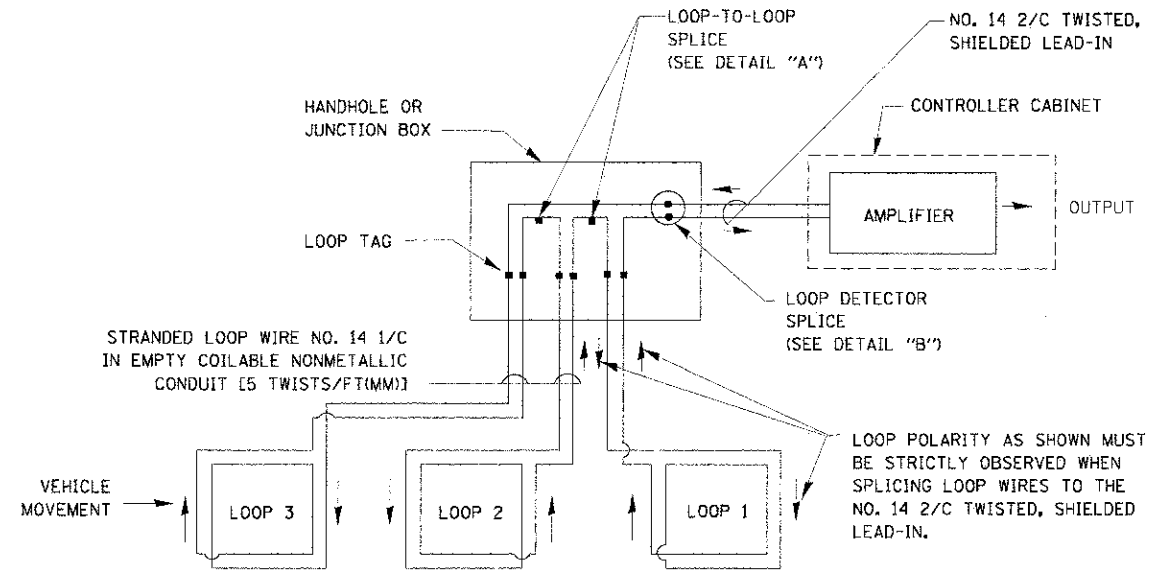
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

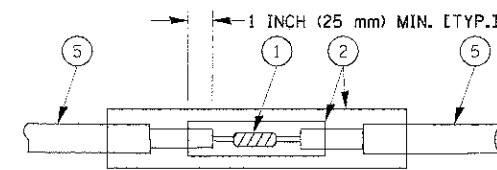


- A. LANE #1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

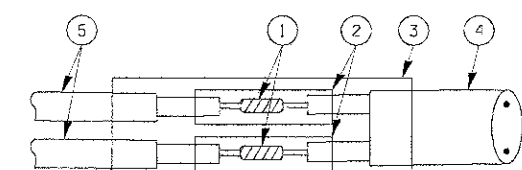


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

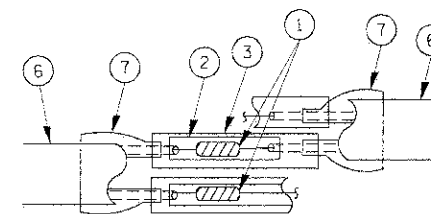


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

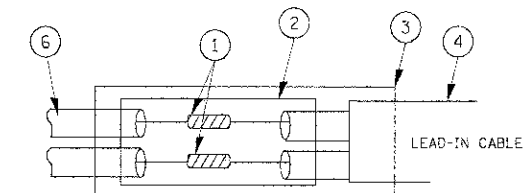


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



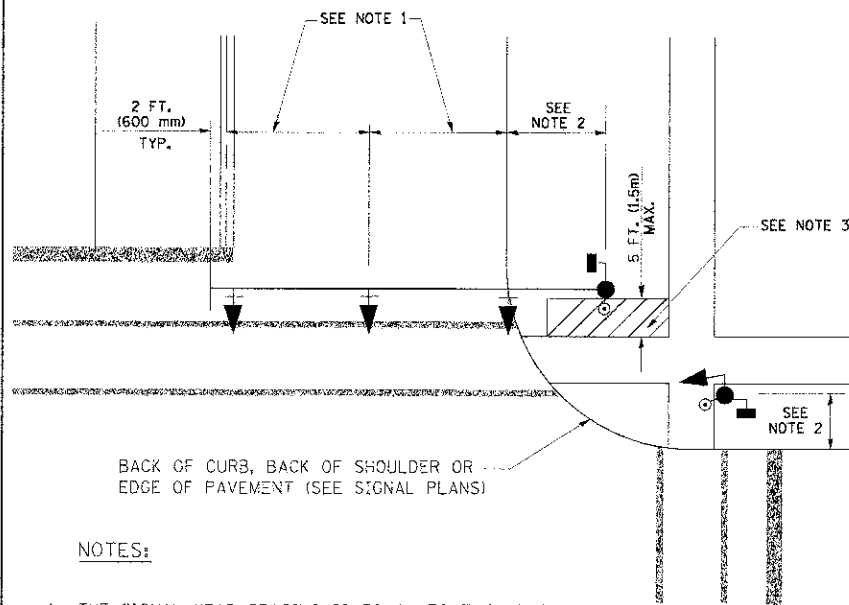
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

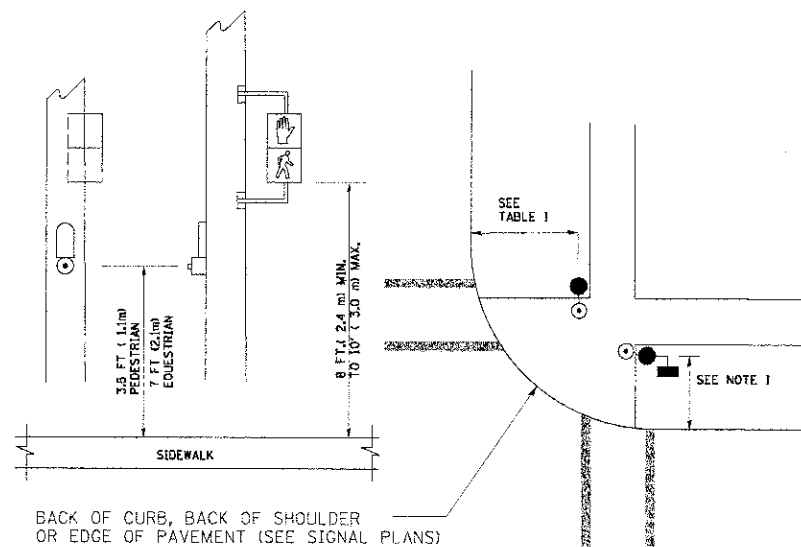
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

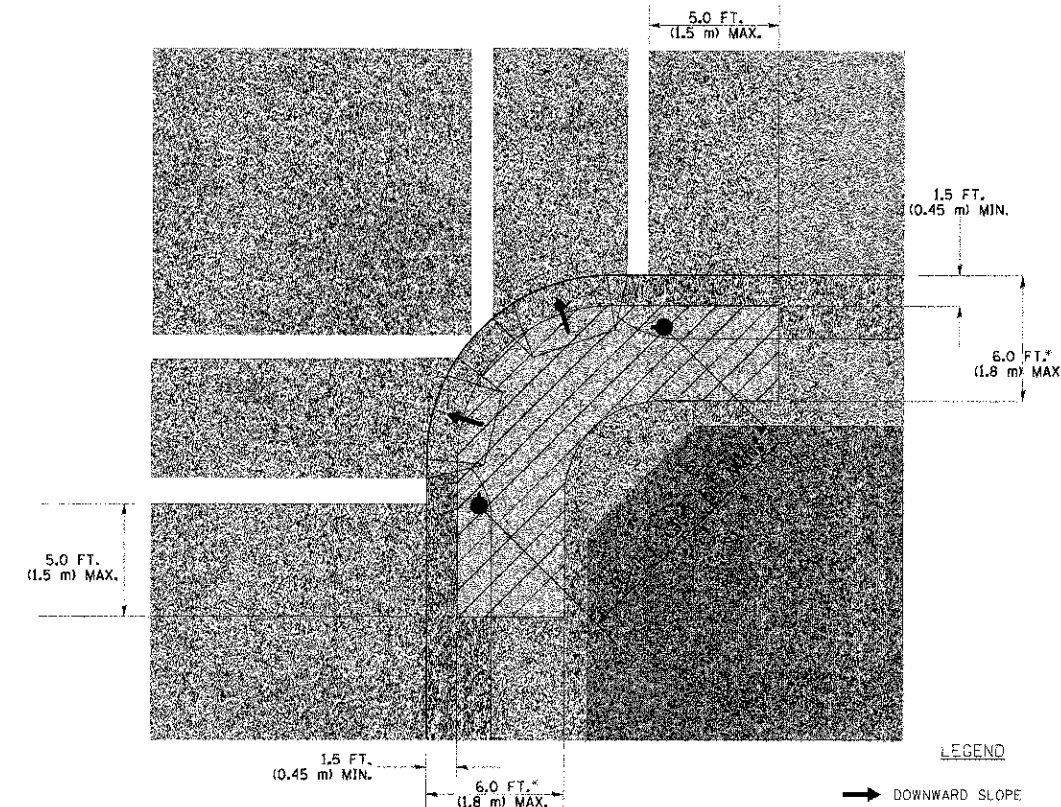
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

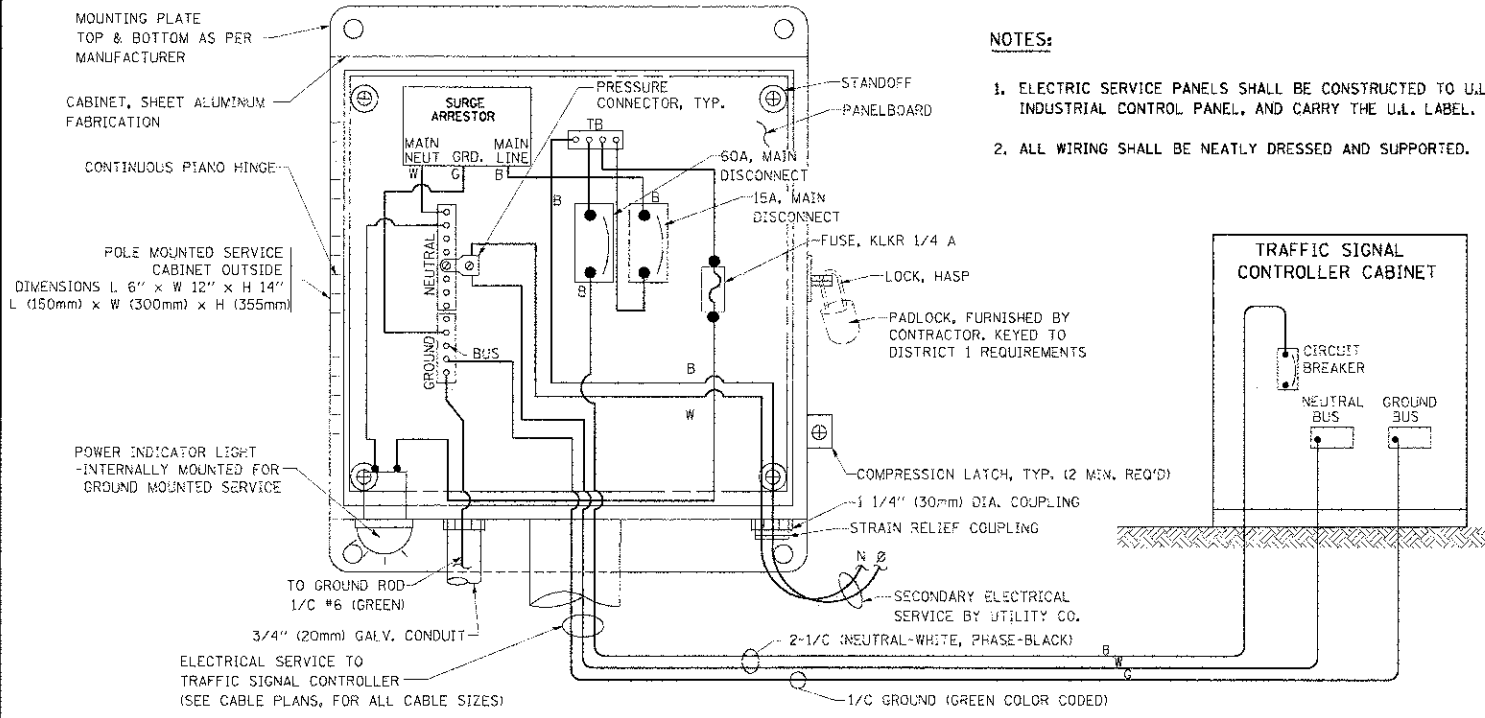
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

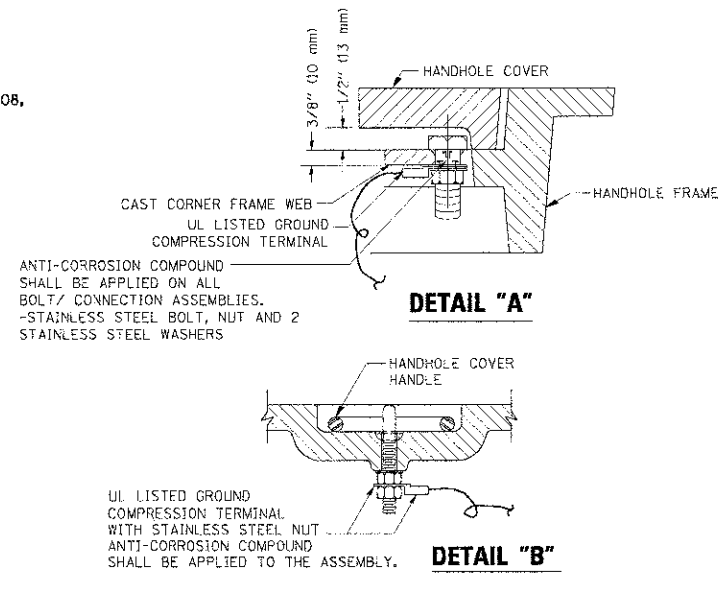
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

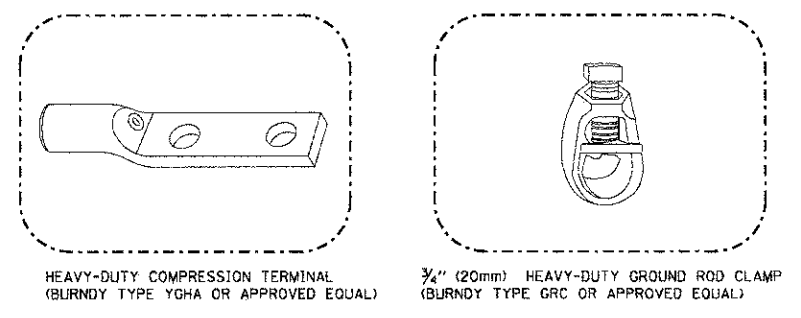
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD AFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.



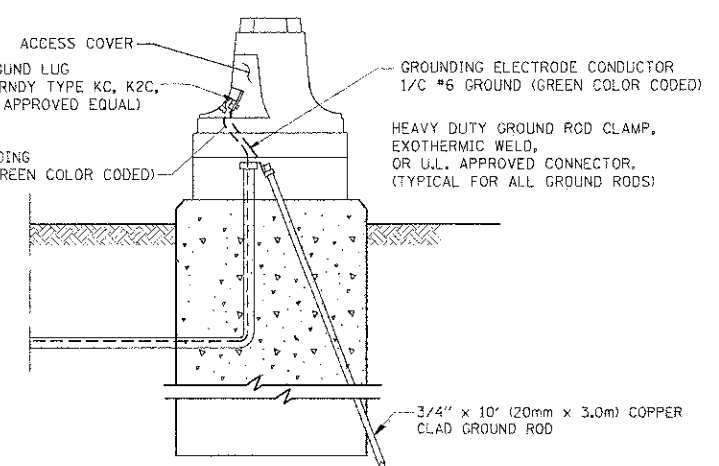
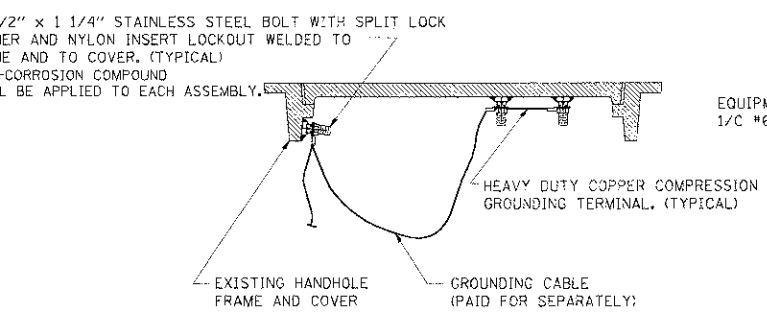
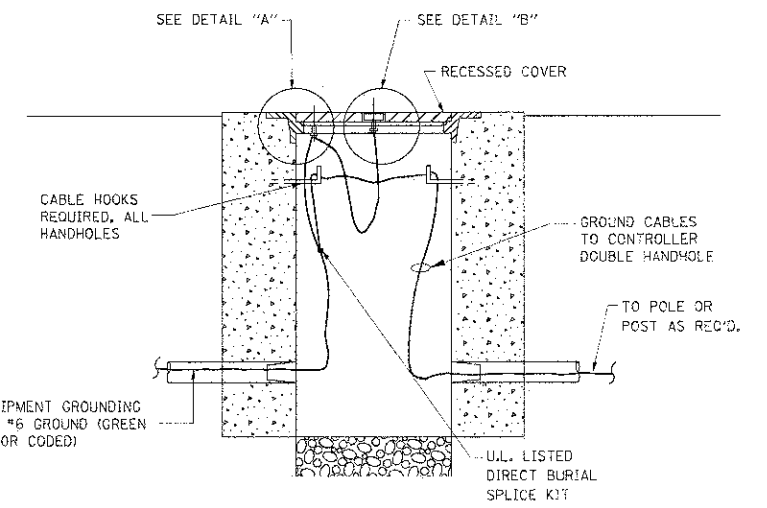
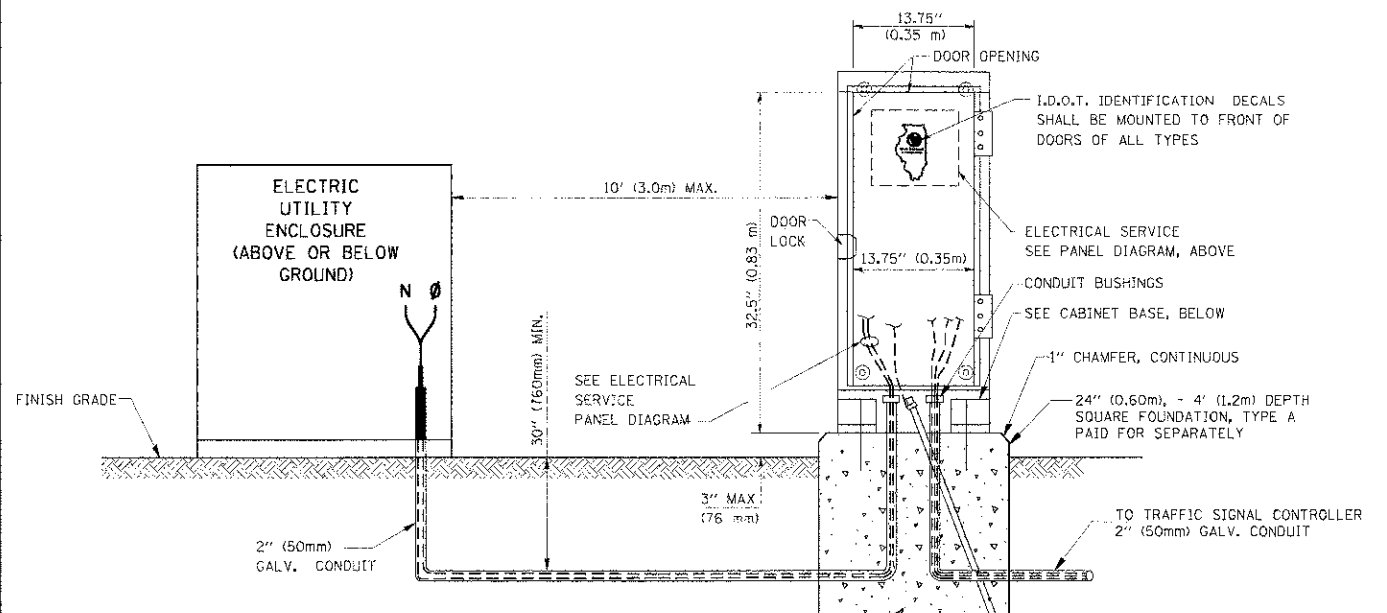
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
  2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
  3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPEO OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

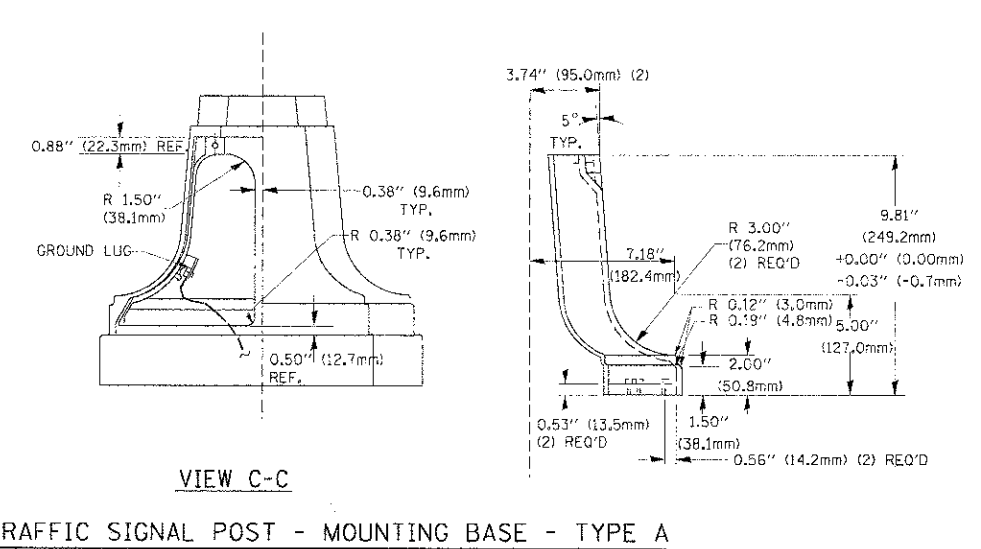
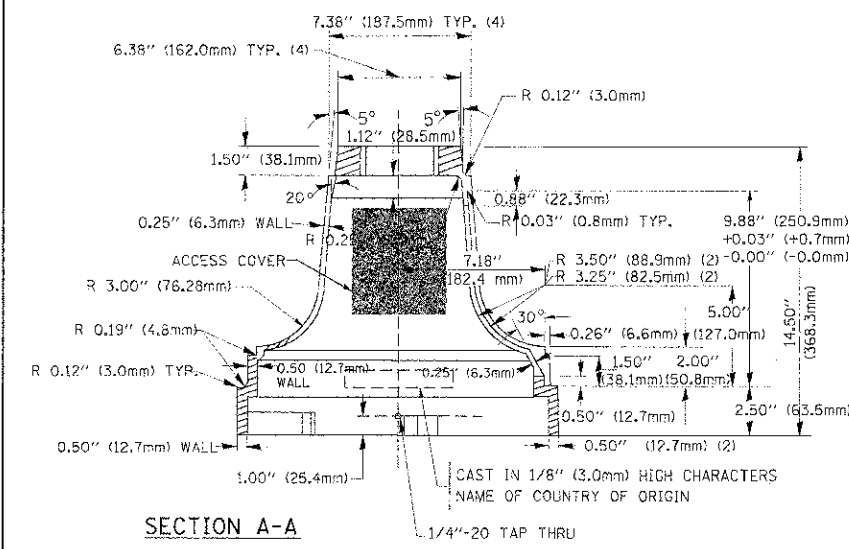
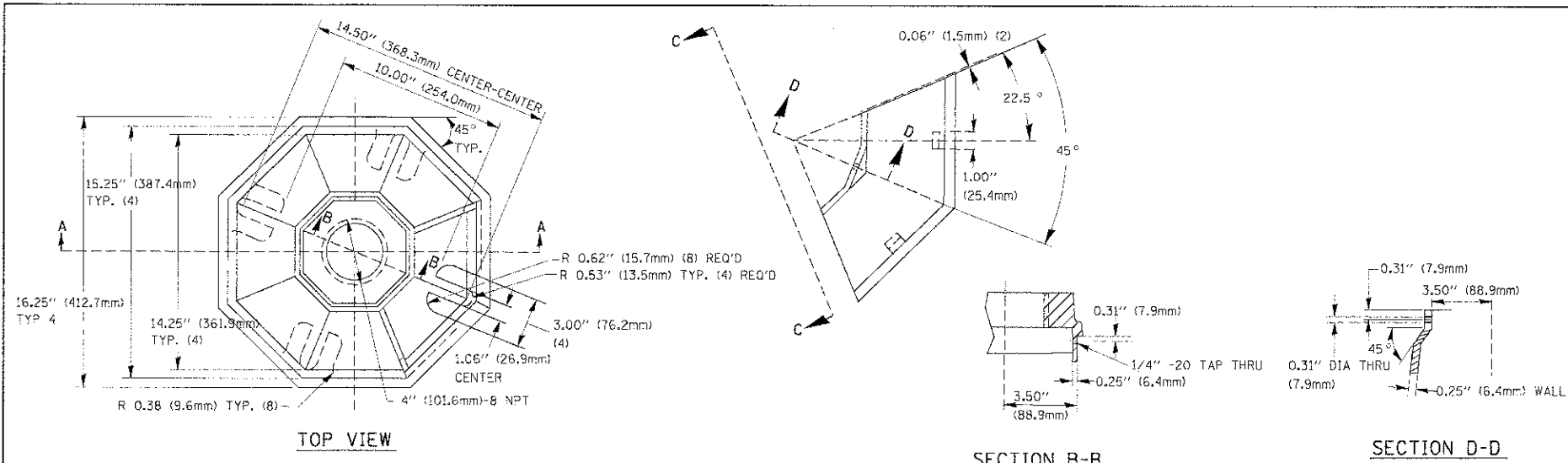
**CABINET - BASE BOLT PATTERN**  
 (NOT TO SCALE)

FILE NAME =	USER NAME =	DESIGNED - DAD	REVISED -
PROJECT NAME =	PROJECT NUMBER =	DRAWN - BCK	REVISED -
PROJECT SCALE =	PROJECT DATE =	CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

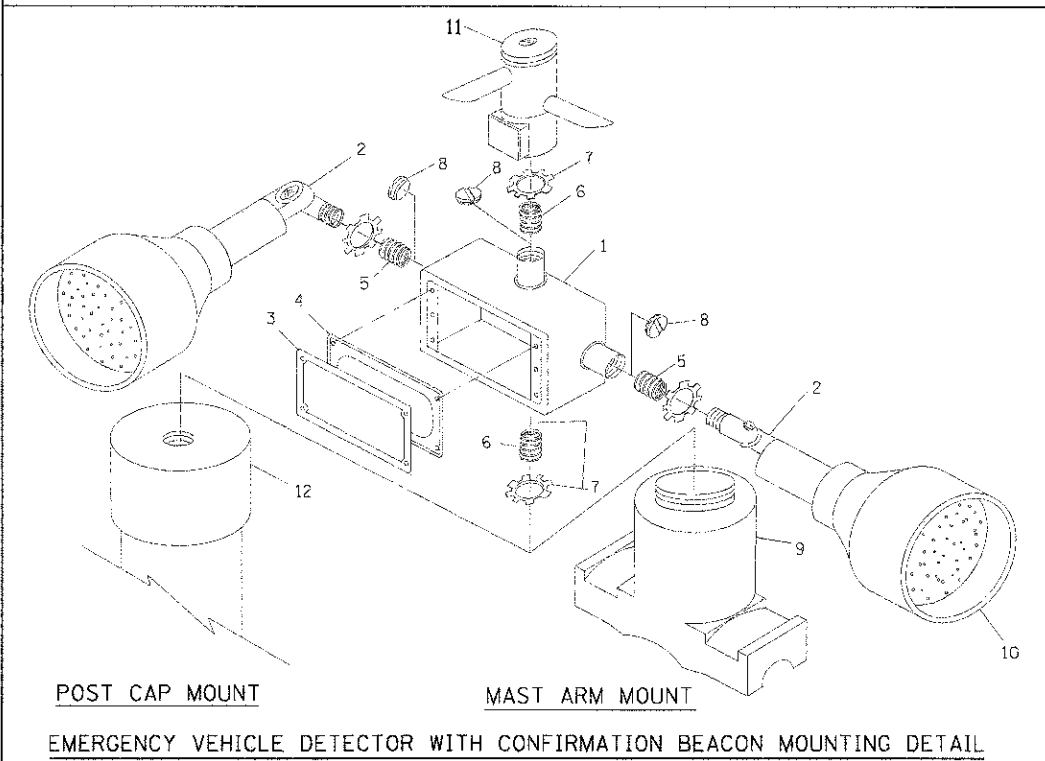
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**  
 SCALE: SHEET NO. 3 OF 6 SHEETS

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	113
CONTRACT NO. 63640		ILLINOIS FED. AID PROJECT		

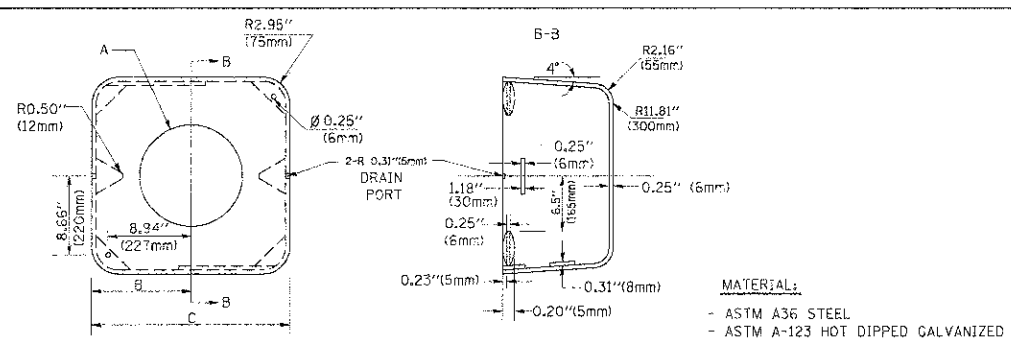


TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU. IN. (0.000344 CU. M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

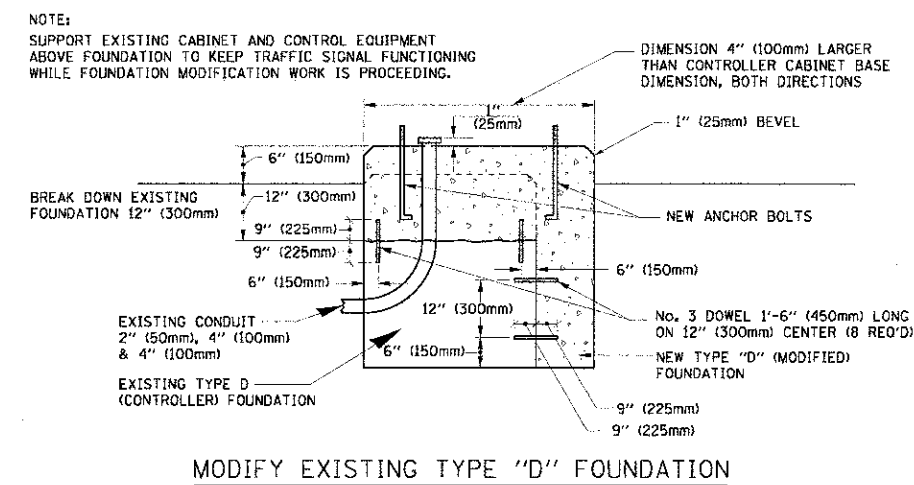
- NOTES:
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



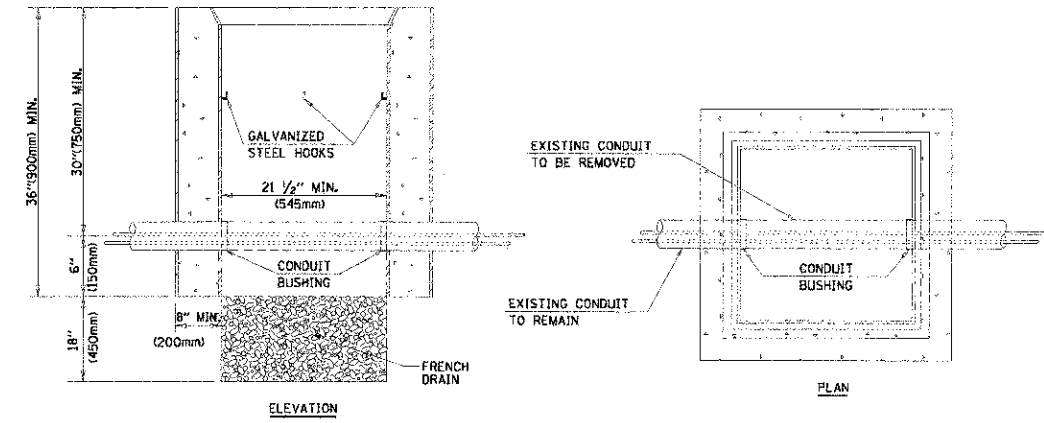
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	13\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	58 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

SHROUD

- NOTES:
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

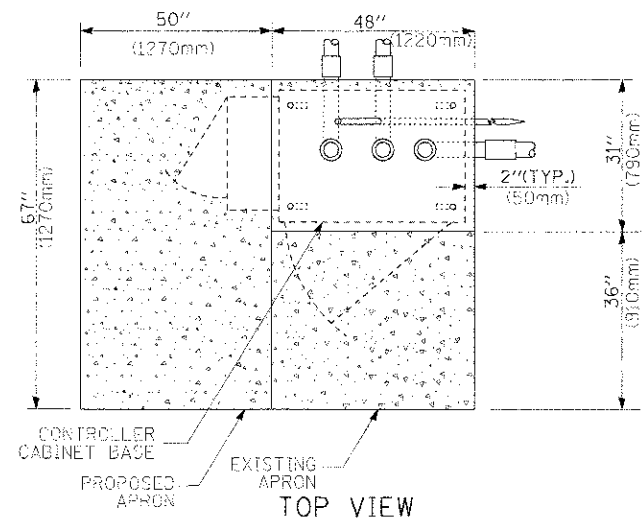


MODIFY EXISTING TYPE "D" FOUNDATION

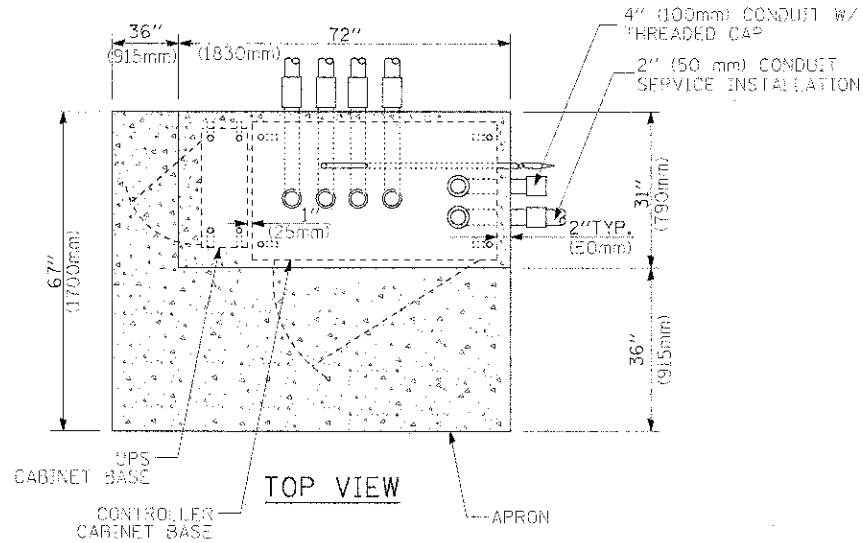
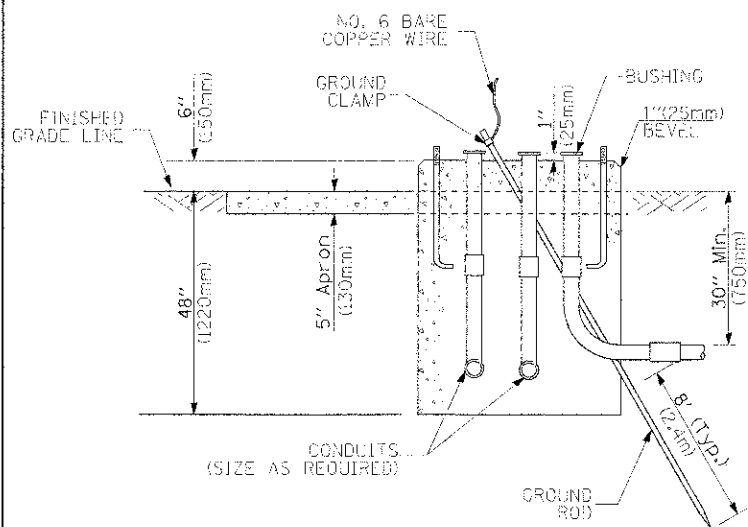


- NOTES:
- HANDHOLE CONSTRUCTED PER STATE STANDARD 8:4001.
  - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

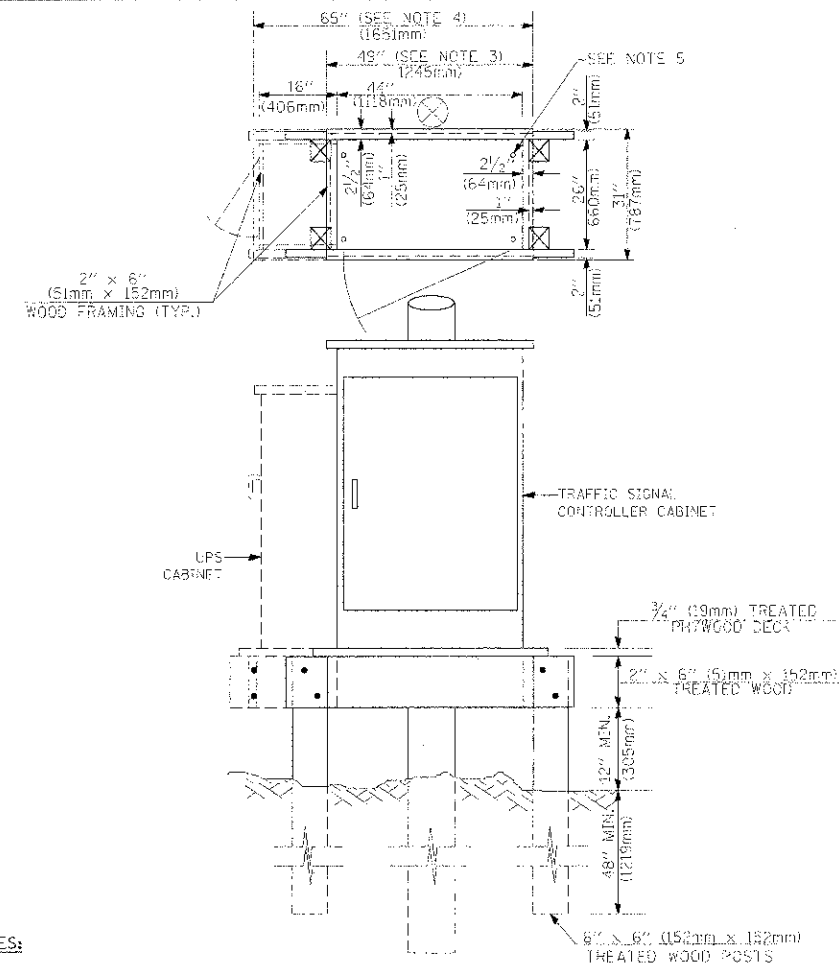
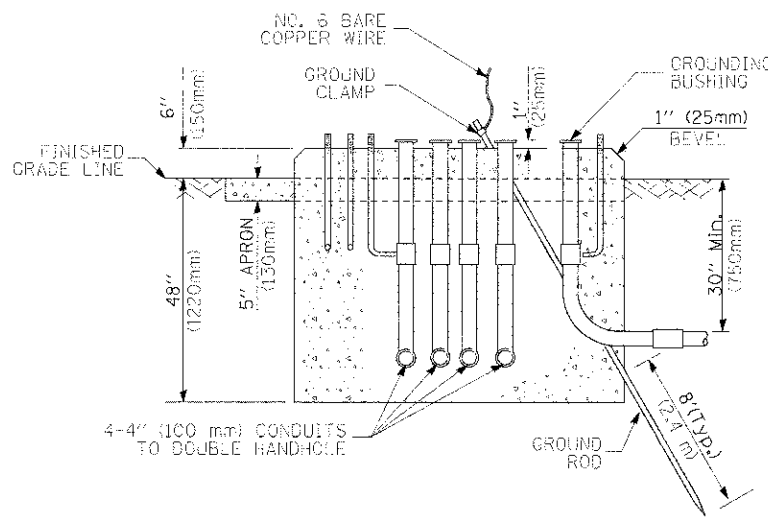
HANDHOLE TO INTERCEPT EXISTING CONDUIT



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TYPE C  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
  - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
  - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
  - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	24" (600mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
  - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
  - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
  - For mast arm assemblies with dual arms refer to state standard 878001.




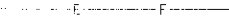


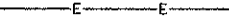

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

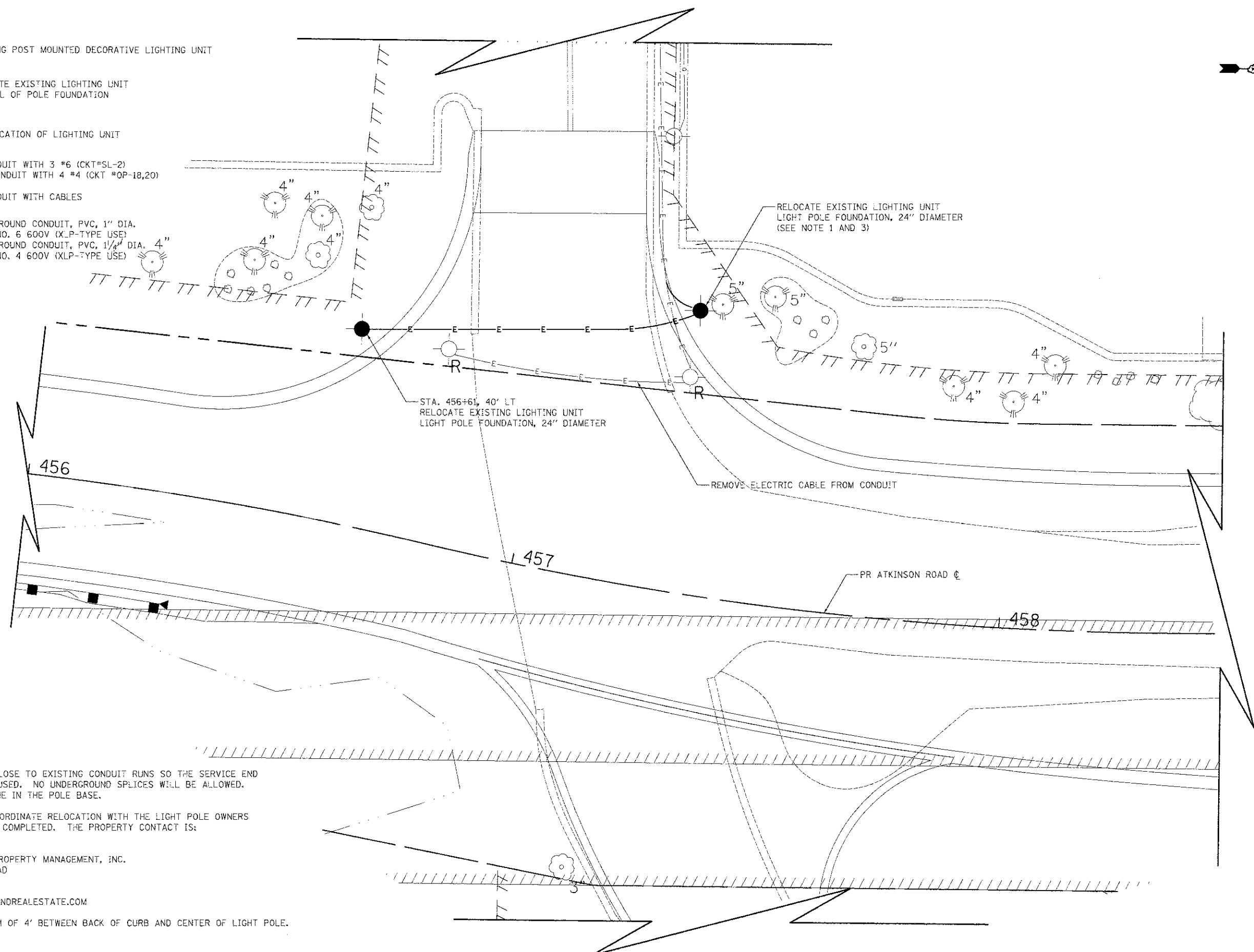
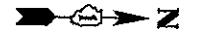
# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																	
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																				
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																				
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																				
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																				
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																				
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																				
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F																				
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																				
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)																				
ALUMINUM MAST ARM ASSEMBLY AND POLE				COLLABLE NONMETALLIC CONDUIT (EMPTY)			CNC	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																				
SIGNAL POST				REMOVE ITEM	R			ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																				
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																				
GUY WIRE				ABANDON ITEM	A			SIGNAL POST AND FOUNDATION TO BE REMOVED																				
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR																				
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;">EXISTING</th> <th style="width: 25%; text-align: center;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
	EXISTING	PROPOSED																										
RAILROAD CONTROL CABINET																												
RAILROAD CANTILEVER MAST ARM																												
FLASHING SIGNAL																												
CROSSING GATE																												
CROSSBUCK																												
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																								
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT																								
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER																								
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																								
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																								
MICROWAVE VEHICLE SENSOR																												
VIDEO DETECTION CAMERA																												
VIDEO DETECTION ZONE																												
PAN, TILT, ZOOM CAMERA																												
WIRELESS DETECTOR SENSOR																												
WIRELESS ACCESS POINT																												



**LEGEND**

-  EXISTING POST MOUNTED DECORATIVE LIGHTING UNIT
-  RELOCATE EXISTING LIGHTING UNIT  
REMOVAL OF POLE FOUNDATION
-  NEW LOCATION OF LIGHTING UNIT
-  1" CONDUIT WITH 3 #6 (CKT#SL-2)
-  1 1/4" CONDUIT WITH 4 #4 (CKT #OP-18,20)
-  1" CONDUIT WITH CABLES
-  UNDERGROUND CONDUIT, PVC, 1" DIA.  
3-1/C NO. 6 600V (XLP-TYPE USE)
-  UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.  
4-1/C NO. 4 600V (XLP-TYPE USE)



**NOTES**

1. POLE SHALL BE LOCATED CLOSE TO EXISTING CONDUIT RUNS SO THE SERVICE END OF THE CABLE CAN BE RE-USED. NO UNDERGROUND SPLICES WILL BE ALLOWED. ALL SPLICES SHALL BE DONE IN THE POLE BASE.
2. THE CONTRACTOR SHALL COORDINATE RELOCATION WITH THE LIGHT POLE OWNERS PRIOR TO ANY WORK BEING COMPLETED. THE PROPERTY CONTACT IS:  
 KARA A. CROUSORE  
 PROPERTY MANGER  
 INLAND COMMERCIAL PROPERTY MANAGEMENT, INC.  
 2901 BUTTERFIELD ROAD  
 OAKBROOK, IL 60523  
 TEL: 630.218.2747  
 EMAIL: CROUSORE@INLANDREALESTATE.COM
3. THERE SHALL BE A MINIMUM OF 4' BETWEEN BACK OF CURB AND CENTER OF LIGHT POLE.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

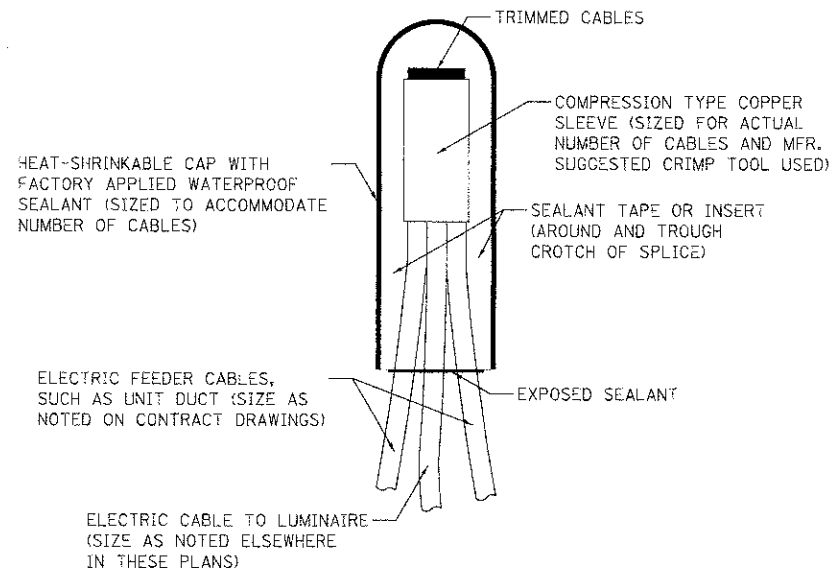
**ATKINSON ROAD  
LIGHTING RELOCATION PLAN**

SCALE: 1" = 10'    SHEET NO. 1 OF 1 SHEETS    STA. 456+00 TO STA. 458+50

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 117
CONTRACT NO. 63640				

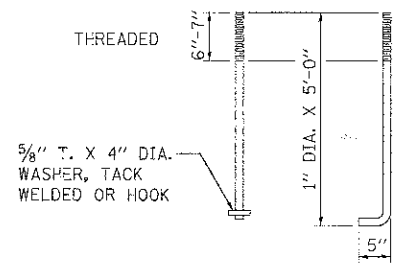
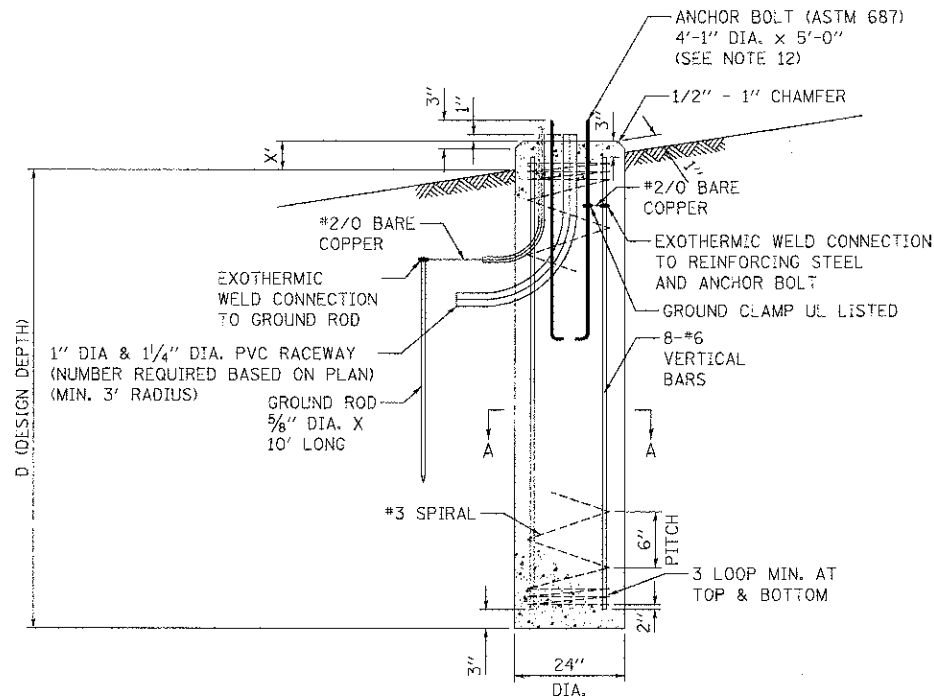
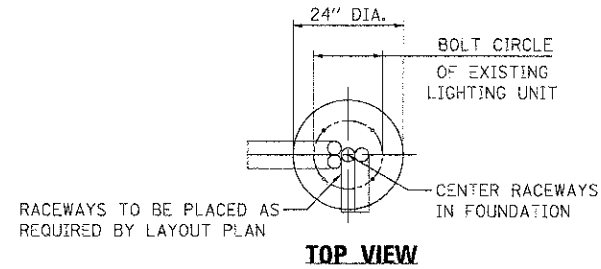
**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. ABOVE THE FINISHED GRADE WITHIN A 60 IN. CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 1/2" TO 1".
6. THE CONCRETE SHALL BE CLASS DS. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELD ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A194 2H OR ASTM A563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER HOT-DIPPED PROCESS CONFORMING WITH AASHTO M232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 MICRO-MILLIMETER (6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3 INCHES OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2 3/4" ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" PITCH OF MAY SUBSTITUTE #3 TIES AT 12" O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACKFILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.

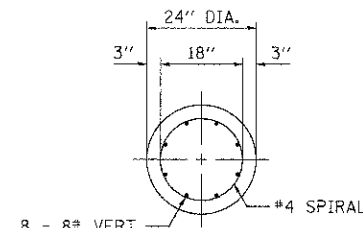


NOTE: NUMBER OF CABLES IN SPLICE MAY VARY

**SPLICING ELECTRIC CABLES  
BASIC MATERIALS AND METHODS**



**ANCHOR BOLT DETAIL**



**SECTION A-A**

**DESIGN TABLE - LIGHT POLE FOUNDATION, 24" DIAMETER**

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT. BARS	SPIRAL	VERT. BARS	SPIRAL
SOFT CLAY	13'-0"	15'-0"	8-#6 x 12'-6"	#3 x 122'	8-#6 x 14'-3"	#3 x 141'
MEDIUM CLAY	9'-6"	10'-9"	8-#6 x 9'-0"	#3 x 90'	8-#6 x 10'-0"	#3 x 100'
STIFF CLAY	7'-0"	8'-2"	8-#6 x 6'-6"	#3 x 86'	8-#6 x 7'-6"	#3 x 76'
LOOSE SAND	10'-0"	11'-0"	8-#6 x 9'-6"	#3 x 94'	8-#6 x 10'-6"	#3 x 103'
MEDIUM SAND	8'-3"	9'-0"	8-#6 x 8'-0"	#3 x 78'	8-#6 x 8'-6"	#3 x 85'
DENSE SAND	7'-9"	9'-0"	8-#6 x 7'-8"	#3 x 73'	8-#6 x 8'-6"	#3 x 85'
ROCK OR SOLIDIFIED SLAG	5'-0"	5'-0"	NONE	NONE	NONE	NONE

**LIGHT POLE FOUNDATION, 24" DIAMETER**



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 CHECKED - DNM  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

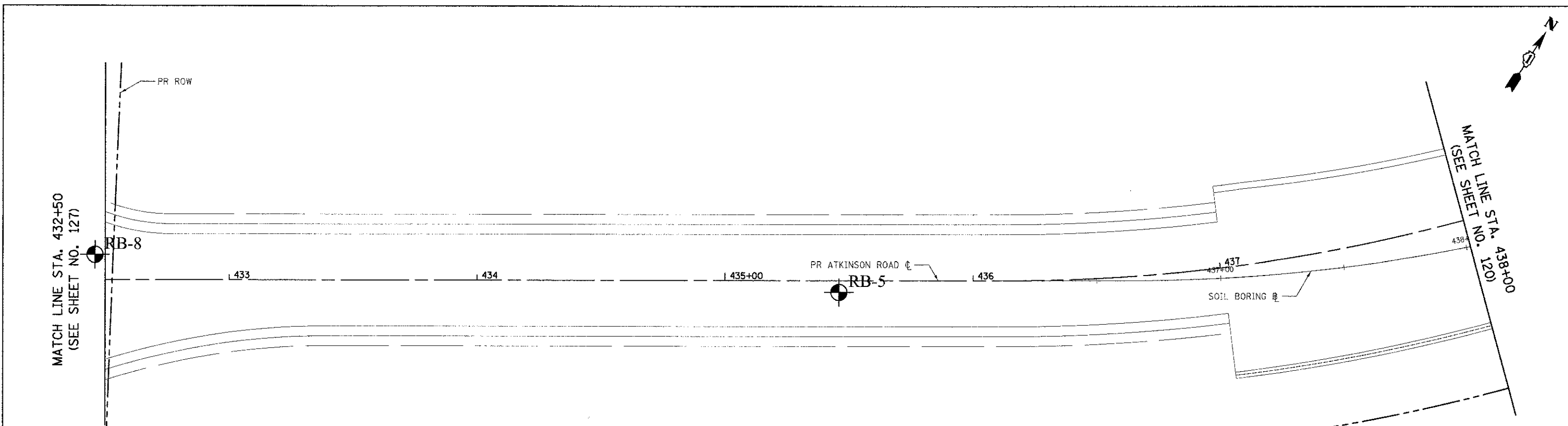
**ATKINSON ROAD  
 LIGHTING RELOCATION DETAILS**

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 118
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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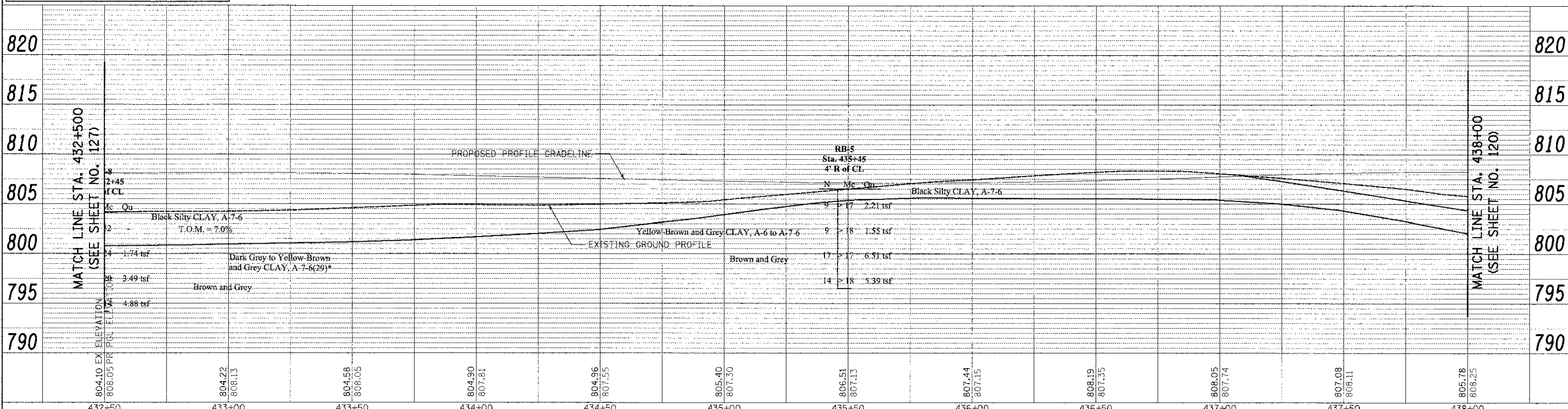
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**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

BORING NUMBER    CORE NUMBER  
 N = Standard Penetration Resistance, blows per foot  
 Mc = Moisture Content  
 Qu = Unconfined Compressive Strength, tons per square foot (tsf)  
 Qc = Unconfined Compressive Strength, tons per square foot (tsf)  
 \* = Sample tested for Classification  
 - = Water Level During Drilling  
 \* Pavement Materials refers to roadway bituminous pavements, materials, granular base course materials, granular shoulder materials, and minor roadway and bridge fill materials



804.10 808.05	804.22 808.13	804.58 808.05	804.90 807.81	804.96 807.55	805.40 807.30	806.51 807.13	807.44 807.15	808.19 807.35	808.05 807.74	807.08 808.11	805.78 808.25
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

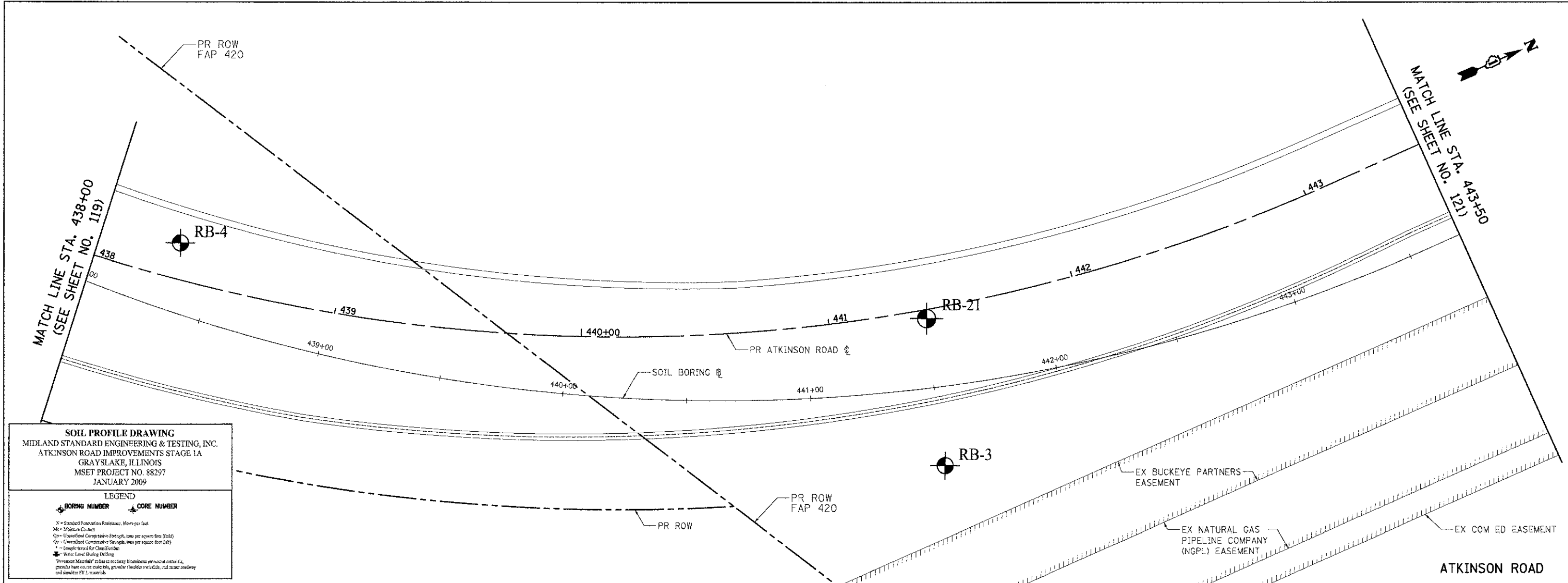
ATKINSON ROAD  
 SOIL BORING LOCATION PLAN & SOIL PROFILE

F.A.U. RTE. 198  
 SECTION 00-00045-00-PV  
 COUNTY LAKE  
 TOTAL SHEET SHEETS: NO. 119  
 CONTRACT NO. 63640

SCALE: 1" = 20'    SHEET NO. 1 OF 13 SHEETS    STA. 432+50 TO STA. 438+00    FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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BY	eds
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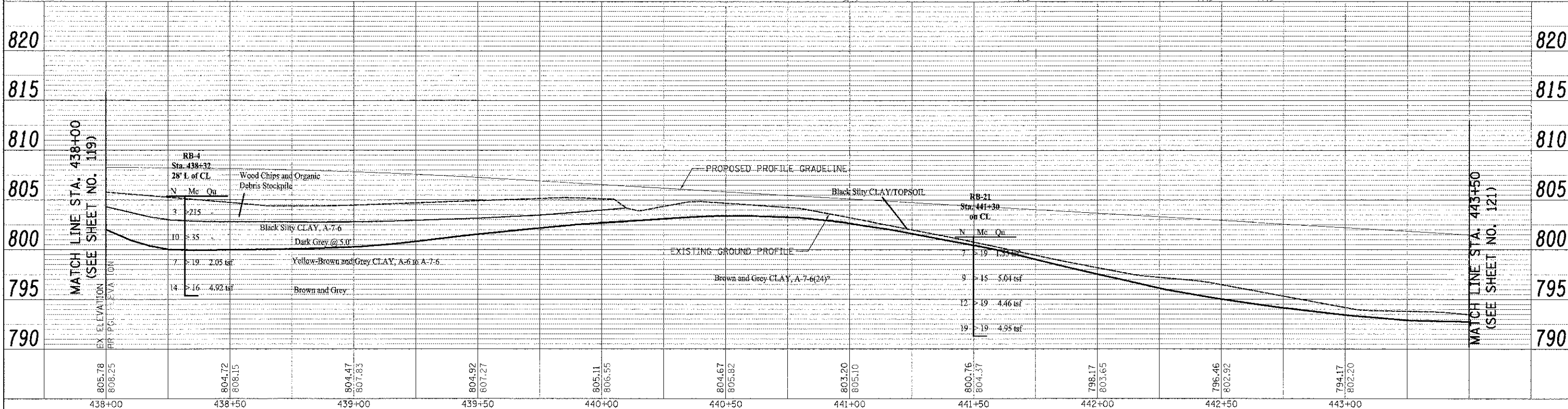
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DATE	02/06/12



**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

- SOIL BORING #
- CORE NUMBER
- N = Standard Penetration Resistance, Blows per foot
- Mc = Moisture Content
- Qu = Unconfined Compressive Strength, tons per square foot (tsf)
- Qc = Confined Compressive Strength, tons per square foot (tsf)
- W = Sample Wet Weight for Classification
- Water Table (if shown)
- "Proposed Materials" refers to roadway bituminous pavement materials, general base course materials, general shoulder materials, and minor roadway and shoulder FILL materials.



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ATKINSON ROAD  
 SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20' SHEET NO. 2 OF 13 SHEETS STA. 438+00 TO STA. 443+50

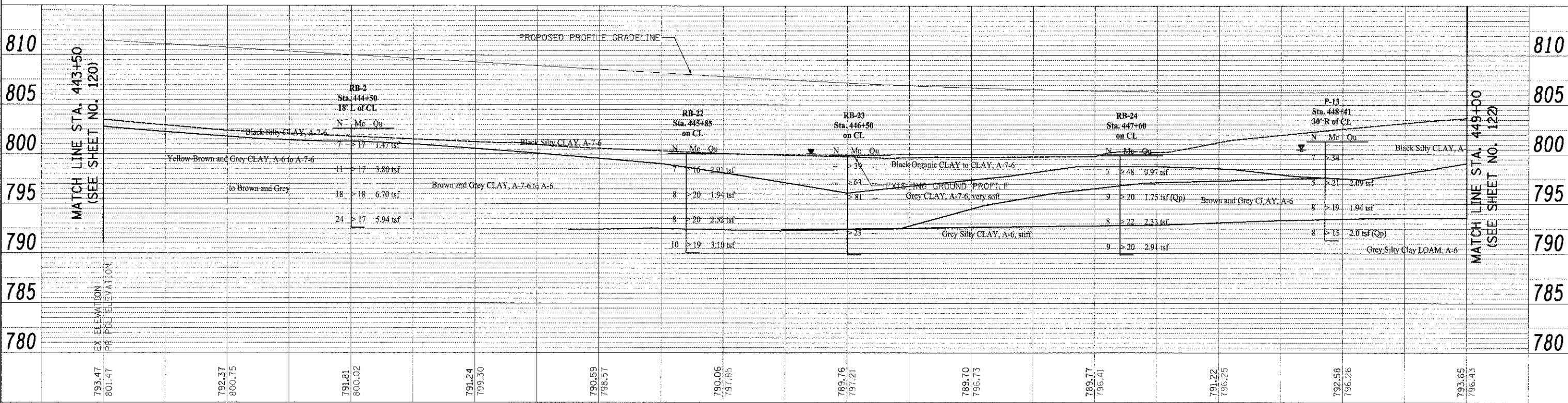
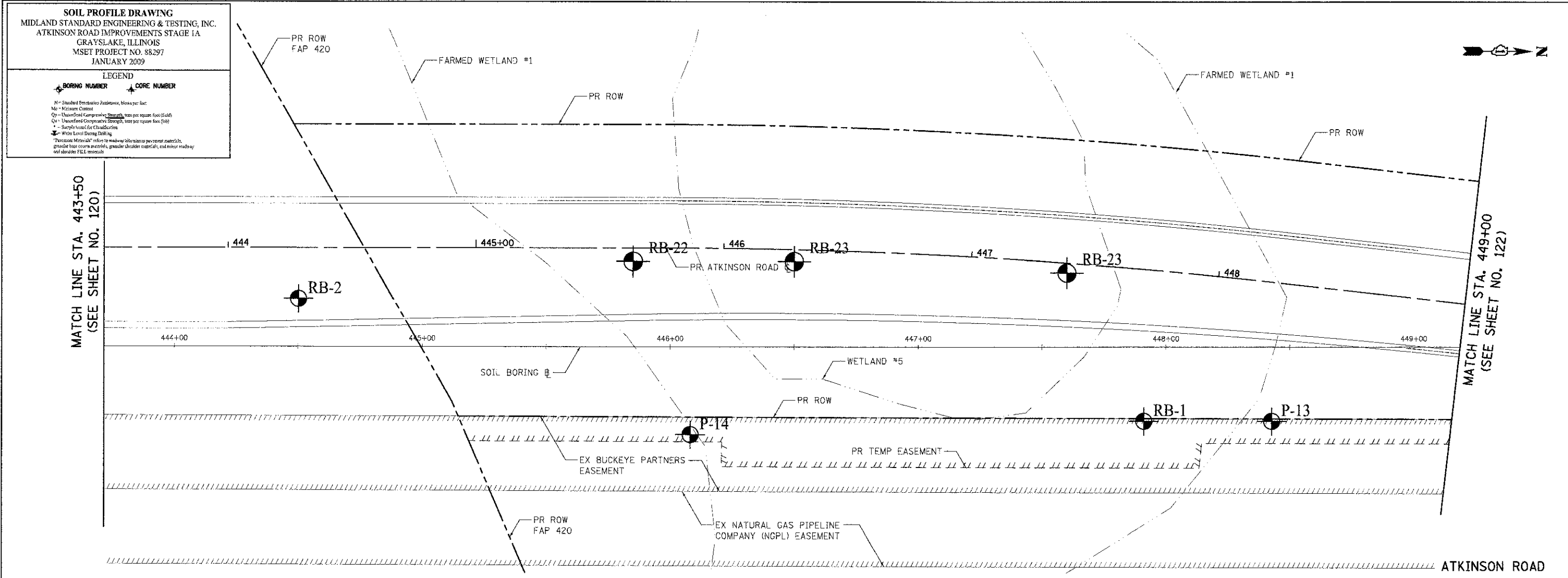
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198	00-00045-00-PV	LAKE	195	120
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**  
 BORING NUMBER    CORE NUMBER  
 N - Standard Penetration Test, blows per foot  
 Mc - Moisture Content  
 Qp - Chambered Compaction Strength, tons per square foot (tsf)  
 Qu - Unconfined Compressive Strength, tons per square foot (tsf)  
 - Sample tested for Classification  
 - Water Level During Drilling  
 "Excavate Material" refers to roadway construction pavement materials, granular base course material, granular shoulder material, and minor roadway and shoulder FILL materials

PLAN	REVISIONS	DATE
NOT BOOK	NO.	
NO.	NO.	

PROF. I.L.	SURVEY	DATE
NOTE BOOK	NO.	
NO.	NO.	



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SCALE: 1" = 20' SHEET NO. 3 OF 13 SHEETS STA. 443+50 TO STA. 449+00  
 FED. ROAD DIST. NO. 1 ILLINOIS-FED. AID PROJECT

**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

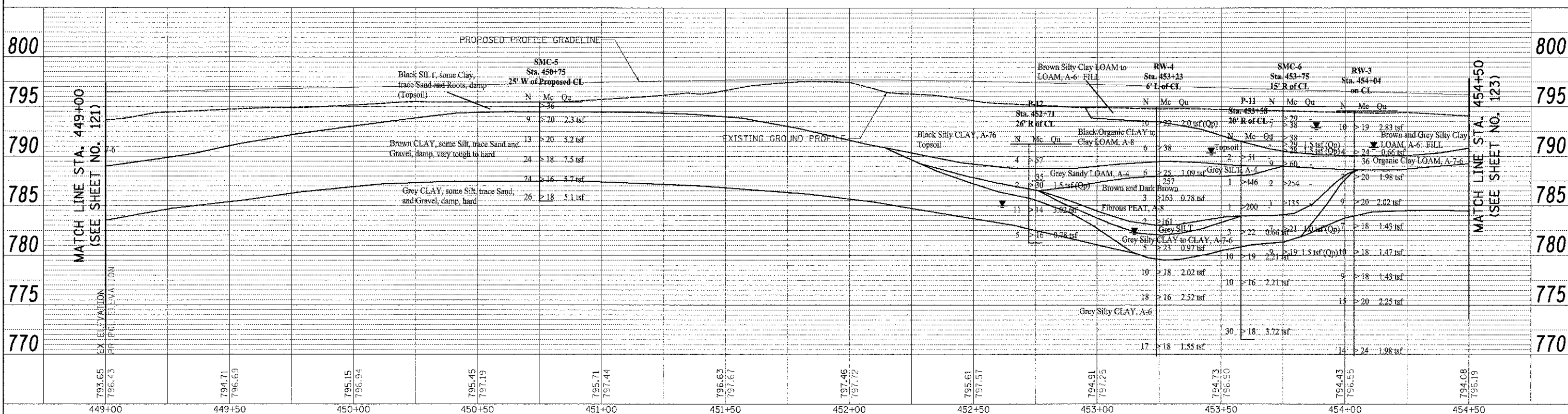
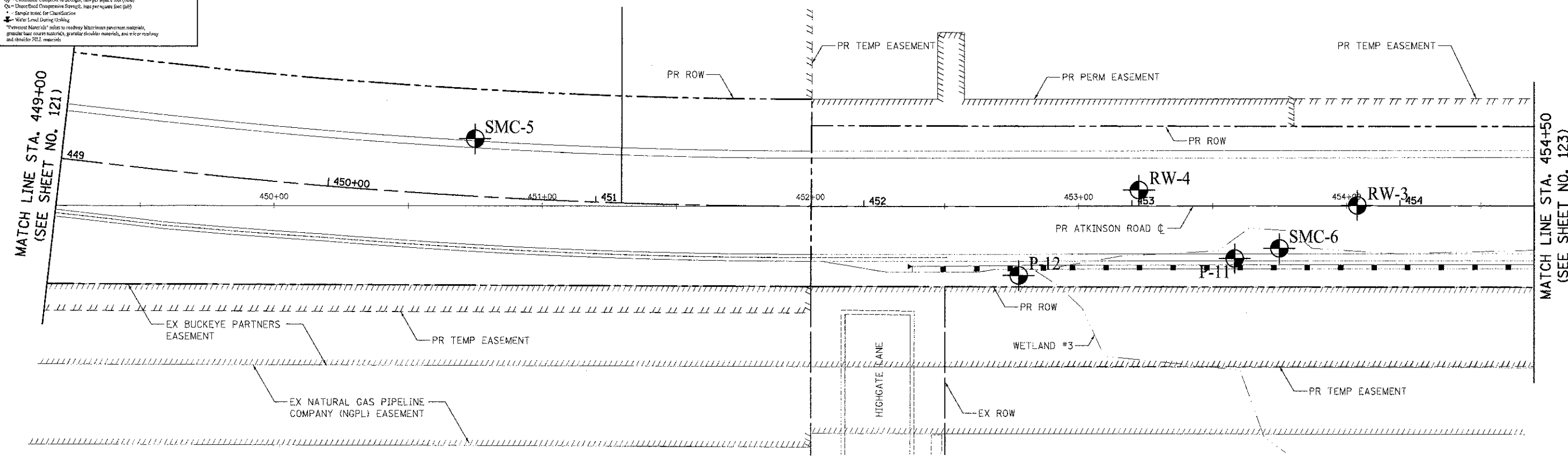


**LEGEND**

- ◆ BORING NUMBER    ◆ CORE NUMBER
- N = Standard Penetration Resistance, blows per foot
- Mc = Moisture Content
- Qp = Unconfined Compressive Strength, tons per square foot (tsf)
- Qu = Unconfined Compressive Strength, tons per square foot (tsf)
- Sample used for Classification
- \* Wet Level (Liquidity Index)
- "Fines Content" refers to roadway construction pavement materials, granular base course materials, granular shoulder materials, and/or roadway and shoulder T&E materials.

DATE	
BY	
NO. OF SHEETS	
NO. OF BOOKS	
NO. OF SHEETS CHECKED	
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NO. OF SHEETS REVISIONS	
NO. OF BOOKS REVISIONS	

DATE	
BY	
NO. OF SHEETS	
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NO. OF BOOKS REVISIONS	



449+00	449+50	450+00	450+50	451+00	451+50	452+00	452+50	453+00	453+50	454+00	454+50
793.65 796.43	794.71 796.69	795.15 796.94	795.45 797.19	795.71 797.44	796.63 797.67	797.46 797.72	795.61 797.57	794.91 797.25	794.73 796.90	794.43 796.55	794.08 796.19



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ATKINSON ROAD**  
**SOIL BORING LOCATION PLAN & SOIL PROFILE**  
 SCALE: 1" = 20'    SHEET NO. 4 OF 13 SHEETS    STA. 449+00 TO STA. 454+50

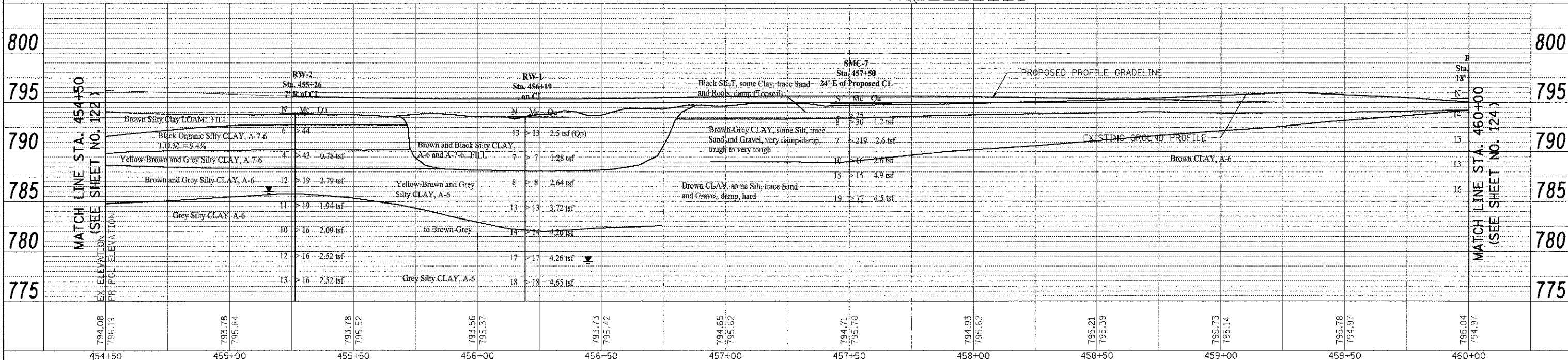
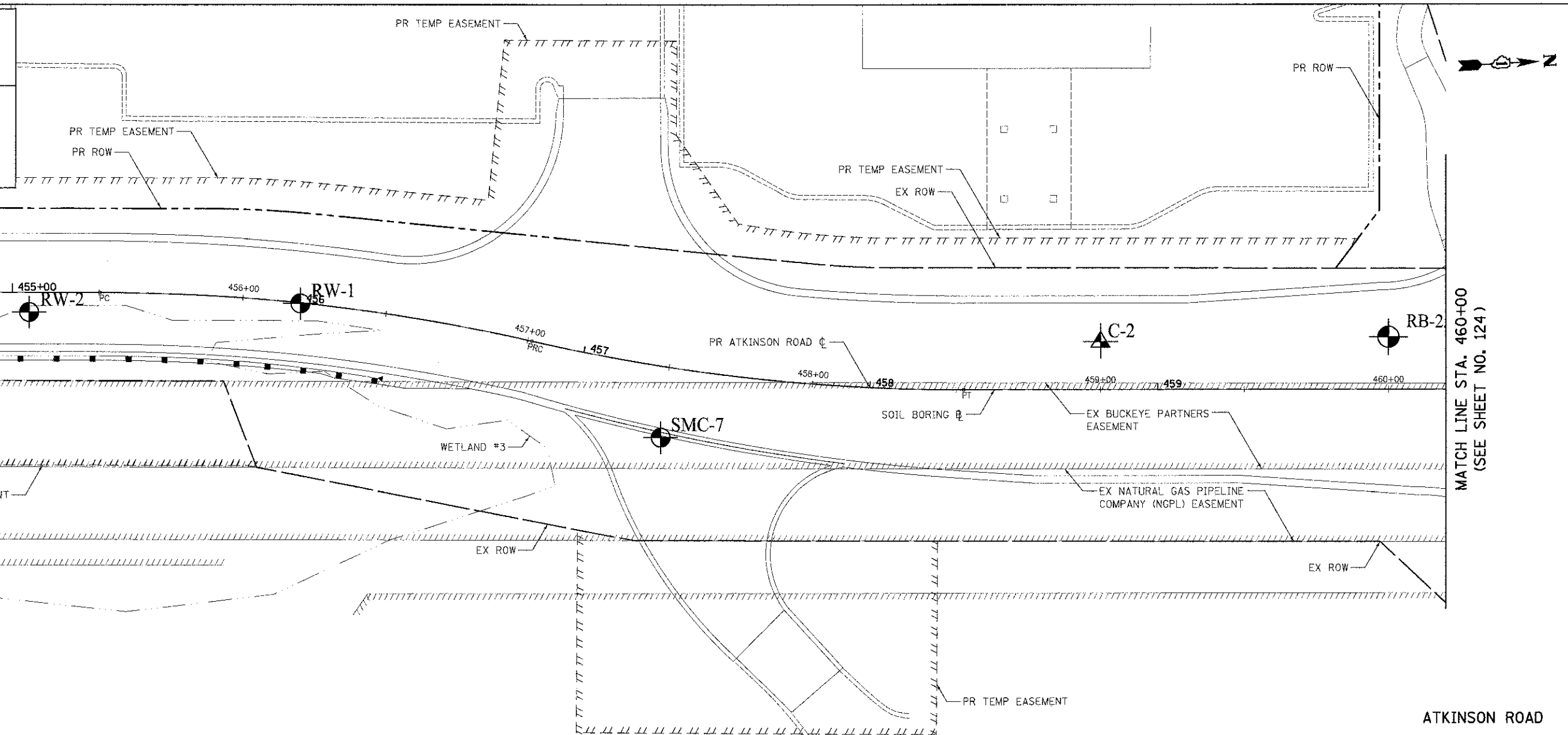
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CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MBET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

◆ BORING NUMBER    ▲ CORE NUMBER

N = Standard Penetration Resistance, blows per foot  
 Mc = Midrange Cores  
 Qp = Unconfined Compressive Strength, tons per square foot (field)  
 U = Unconfined Compressive Strength, tons per square foot (lab)  
 \* Sample used for Classification  
 \* Water Level During Drilling  
 \* "Inverted Material" refers to roadway bituminous pavement materials, granular base course materials, granular shoulder materials, and similar roadway and shoulder materials.



PLAN

DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	
PROJECT NO.	
SCALE	
DATE	

PROFILE

DATE	
BY	
CHECKED	
DESIGNED	
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

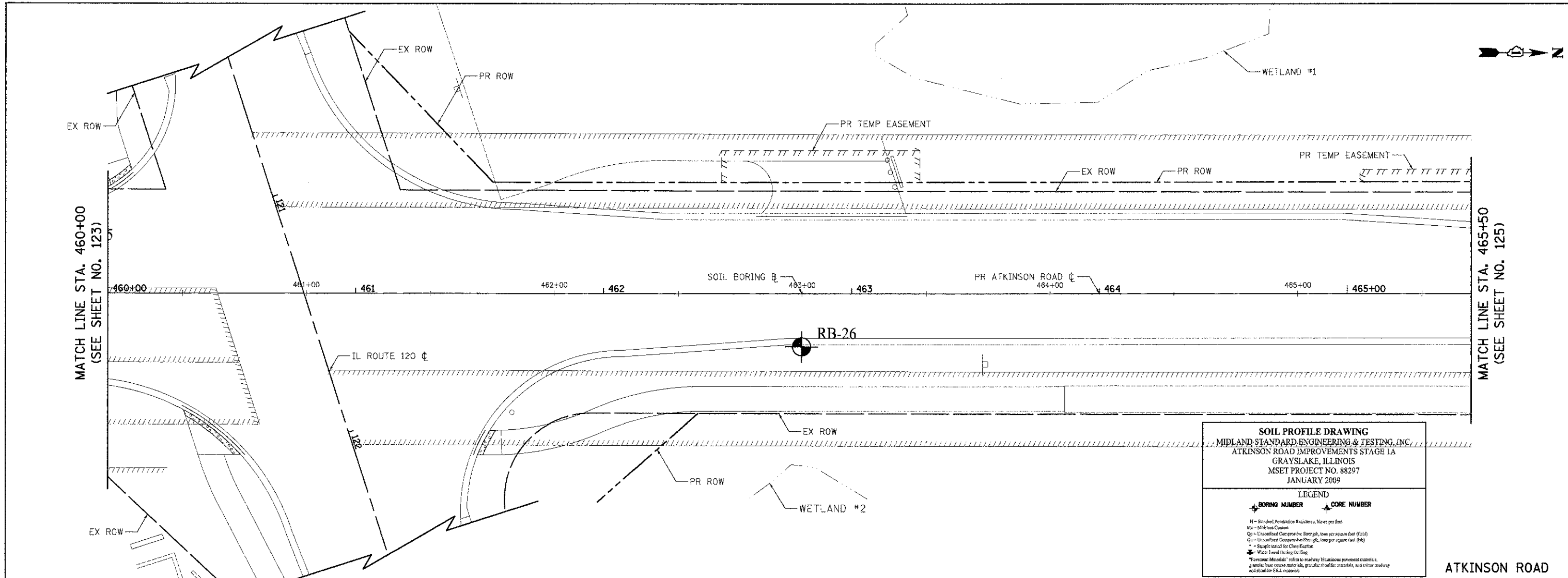
**ATKINSON ROAD**  
**SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20'    SHEET NO. 5 OF 13 SHEETS    STA. 454+50 TO STA. 460+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	123
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SUBMITTED	DATE
NOTE BOOK	ALIGNED	
NO.	DATE	
NO.	DATE	

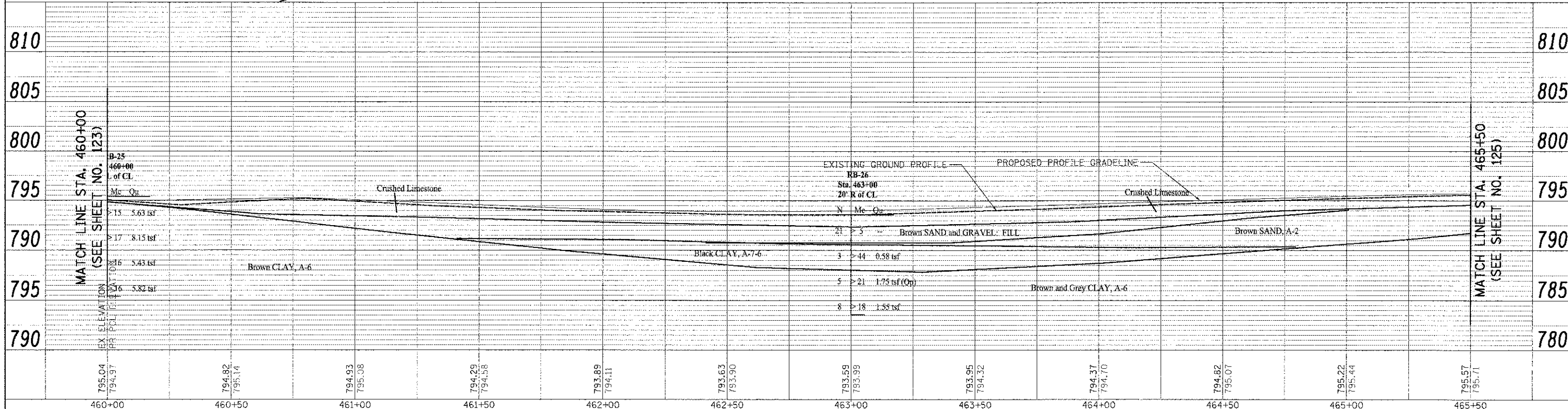
PROFILE	SUBMITTED	DATE
NOTE BOOK	ALIGNED	
NO.	DATE	
NO.	DATE	



**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

BOREING NUMBER      CORE NUMBER  
 N = Standard Penetration Resistance, blow per foot  
 Mc = Moisture Content  
 Qp = Unconfined Compressive Strength, tons per square foot (tsf)  
 Qu = Unconfined Compressive Strength, tons per square foot (tsf)  
 + = Sample tested for Classification  
 ↓ = Water Level (during drilling)  
 \* Pavement Materials refers to roadway structural pavement materials, granular base course materials, granular subbase materials, and prior roadway soil strata in B.T.L. materials

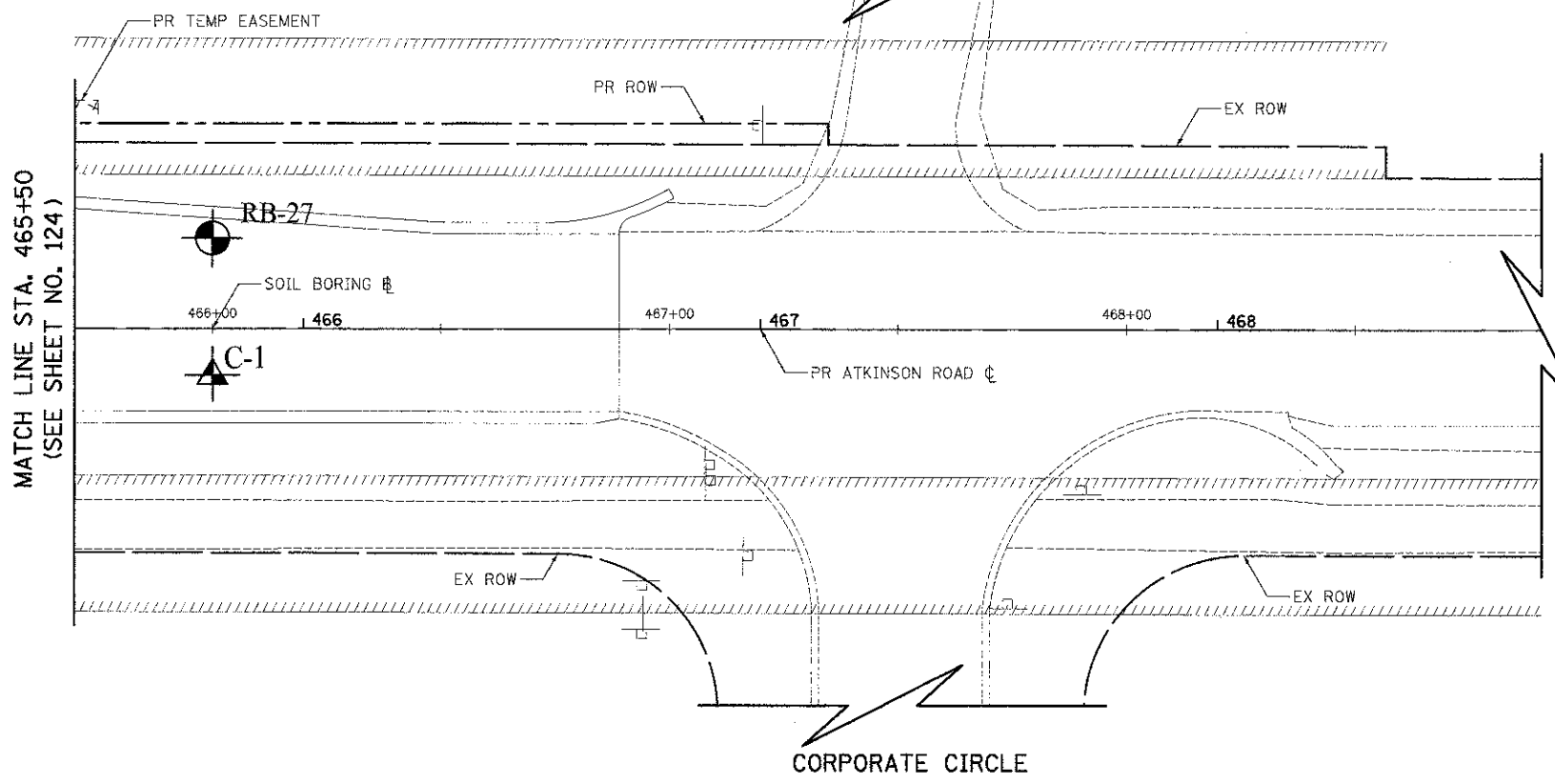
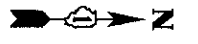


	USPR NAME = eds DATE = 2/2/2012	DESIGNED - MSET DRAWN - MSET CHECKED - MSET DATE - 02/06/12	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>ATKINSON ROAD</b> <b>SOIL BORING LOCATION PLAN &amp; SOIL PROFILE</b>		F.A.U. RTE. 198 SECTION 00-00045-00-PV COUNTY LAKE TOTAL SHEETS 195 SHEET NO. 124	CONTRACT NO. 63640
	SCALE: 1" = 20'      SHEET NO. 6 OF 13 SHEETS      STA. 460+00 TO STA. 465+50				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN SURVEYED BY DATE  
 NOTE BOOK ALIGNED CHECKED  
 NO. OF WAY UTILITY NO. CAD FILE NAME

PROF. L.C. SURVEYED BY DATE  
 NOTE BOOK GRADES CHECKED  
 NO. PLM. NOTED STRUCTURE NOTATIONS CPWD

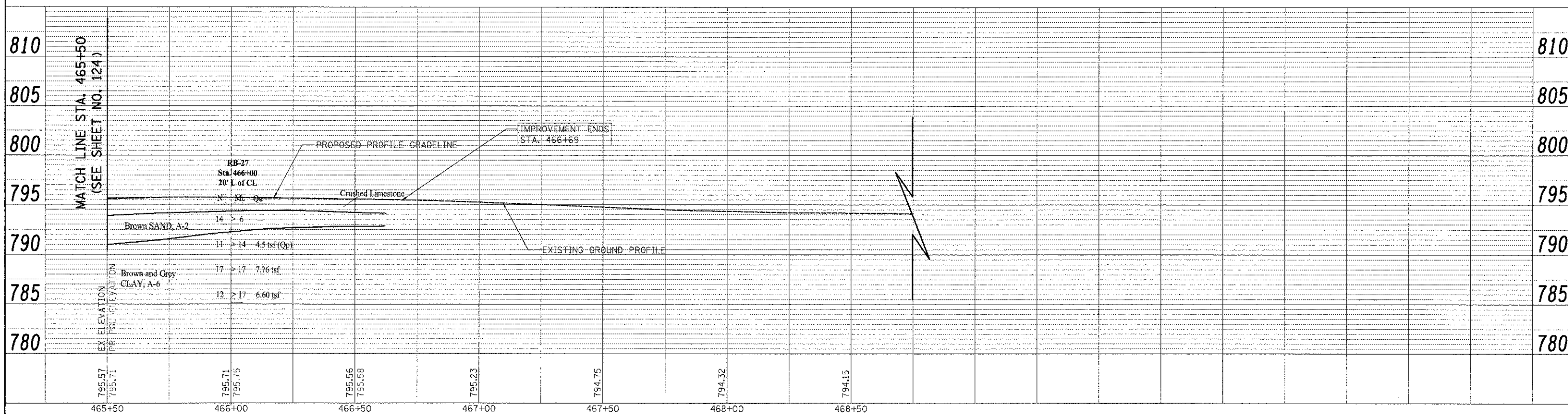


**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

- ⊕ BORING NUMBER
- ▲ CORE NUMBER
- N - Standard Penetration Resistance, blows per foot
- M - Moisture Content
- Q<sub>u</sub> - Unconfined Compressive Strength, tons per square foot (tsf)
- Q<sub>u</sub> - Unconfined Compressive Strength, tons per square foot (tsf)
- Sample tested for Classification
- Water Level During Drilling
- \* "Overpass Materials" refers to roadway fill/riprap pavement materials, granular base course materials, gravelly shoulder materials, and rubber roadway and shoulder PTL materials.

**ATKINSON ROAD**



USER NAME = eoa	DESIGNED = MSET	REVISED =
FILE NAME = ...2169+shb+soi:27.dgn	DRAWN = MSET	REVISED =
PL01 SCALE = 20.0000' / 1"	CHECKED = MSET	REVISED =
PL01 DATE = 2/2/2012	DATE = 02/06/12	REVISED =

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

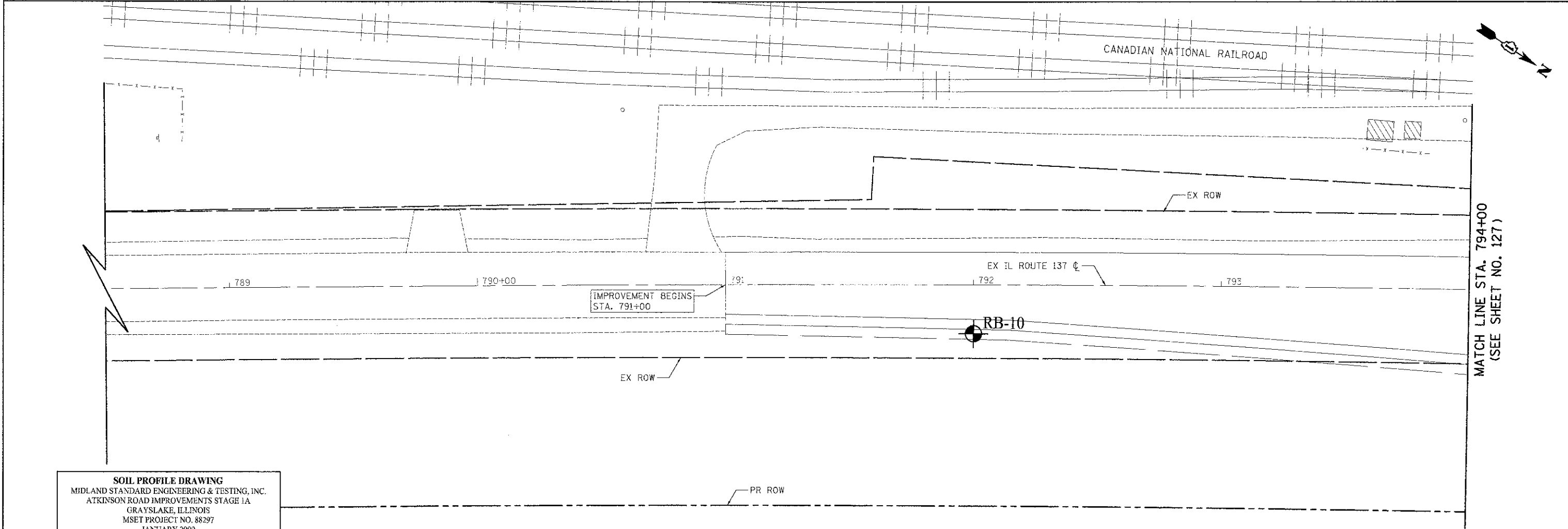
**ATKINSON ROAD**  
**SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20' SHEET NO. 7 OF 13 SHEETS STA. 465+50 TO STA. 466+50

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 125
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS' FED. AID PROJECT				

PLANNING	DATE
DESIGNED	BY
DRAWN	BY
CHECKED	BY
IN CHARGE	BY
NO.	

PROFILE	DATE
DESIGNED	BY
DRAWN	BY
CHECKED	BY
IN CHARGE	BY
NO.	

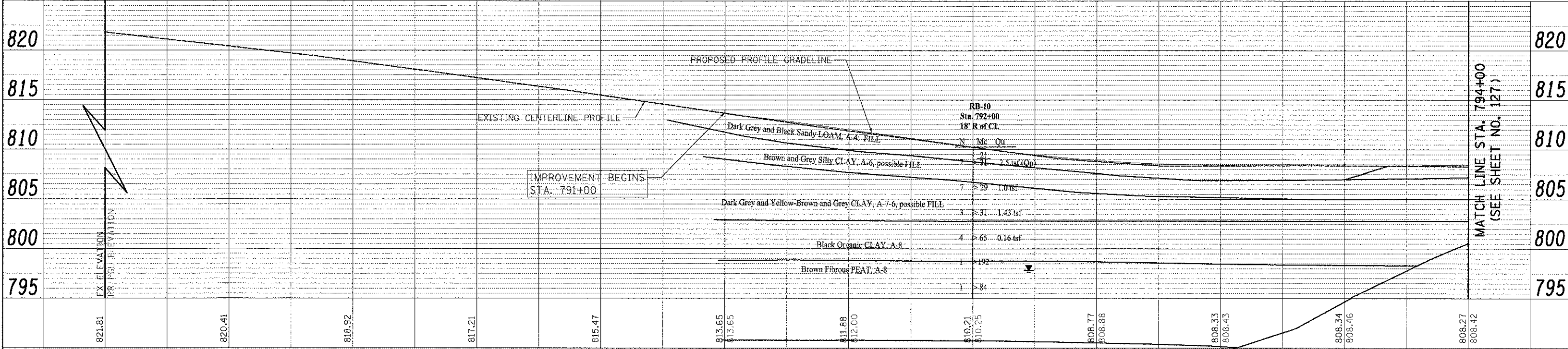


MATCH LINE STA. 794+00  
(SEE SHEET NO. 127)

**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

BORING NUMBER      CORE NUMBER  
 N - Standard Penetration Resistance, blows per foot  
 Mc - Moisture Content  
 Qp - Unconfined Compressive Strength, tons per square foot (tsf)  
 Qc - Unconfined Compressive Strength, tons per square foot (tsf)  
 \* - Sample tested for Classification  
 W - Water Level During Drilling  
 \*Placement Material\* refers to road way bituminous pavement materials, granular base course materials, granular shoulder materials, and minor roadway and shoulder PCC material



IL ROUTE 137

MATCH LINE STA. 794+00  
(SEE SHEET NO. 127)

	USER NAME: m_sds FILE NAME: ...2189-sha-es:108.dgn PLOT SCALE: 20.0000" / 1" PLOT DATE: 2/2/2012	DESIGNED - MSET DRAWN - MSET CHECKED - MSET DATE - 02/06/12	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>IL ROUTE 137</b> <b>SOIL BORING LOCATION PLAN &amp; SOIL PROFILE</b>		F.A.U. RITE: 198 SECTION: 00-00045-00-PV COUNTY: LAKE CONTRACT NO. 63640	TOTAL SHEET NO.: 126 SHEETS: 195
	SCALE: 1" = 20'    SHEET NO. 1 OF 5 SHEETS    STA. 791+00 TO STA. 794+00				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NO. OF WAY CHECKED: \_\_\_\_\_  
 NO. SAID P.L. NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NO. OF WAY CHECKED: \_\_\_\_\_  
 NO. SAID P.L. NAME: \_\_\_\_\_

MATCH LINE STA. 794+00  
(SEE SHEET NO. 126)

MATCH LINE STA. 799+00  
(SEE SHEET NO. 128)

ATKINSON ROAD  
MATCH LINE STA. 432+50  
(SEE SHEET NO. 119)

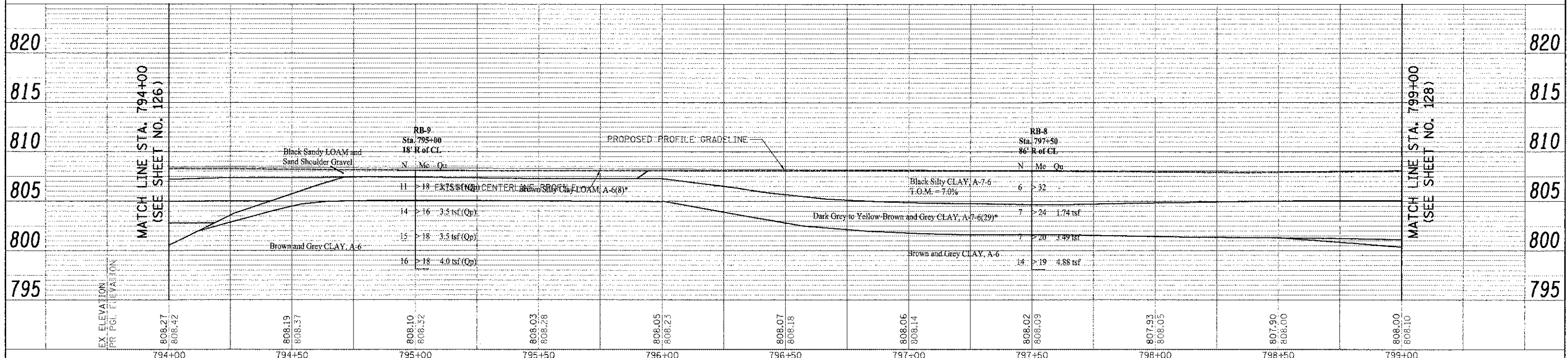
IL ROUTE 137

**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

◆ BORING NUMBER    ▲ CORE NUMBER

N = Standard Penetration Resistance, blows per foot;  
 Me = Minimum Depth  
 Qp = Uncorrected Compressive Strength, tons per square foot (tsf)  
 Qu = Corrected Compressive Strength, tons per square foot (tsf)  
 \* = Sample tested for Characterization  
 W = Water Level (Diving Chart)  
 \* "Fracured Material" refers to roadway bituminous pavement materials, granular base course materials, granular shoulder materials, and minor roadway and shoulder FILL materials



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 PLOT SCALE = 20.0000' / 1" = 200  
 PLOT DATE = 2/2/2012

DESIGNED - MSET  
 DRAWN - MSET  
 CHECKED - MSET  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 137**  
**SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20'    SHEET NO. 2 OF 5 SHEETS    STA. 794+00 TO STA. 799+00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 127
CONTRACT NO. 63640			ILLINOIS FED. AID PROJECT	

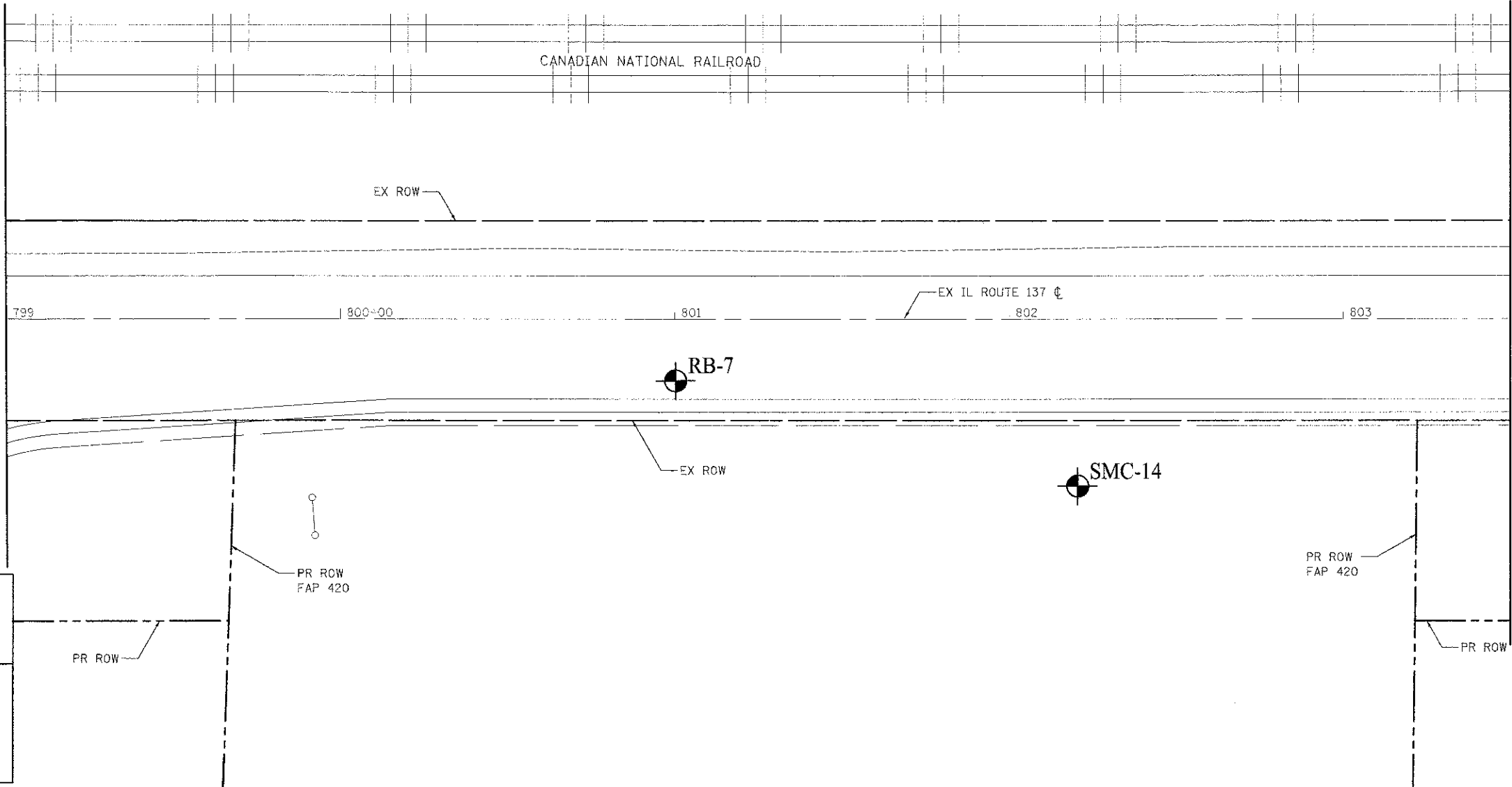
P. AN	SURVEYED	DATE
NOTE BOOK	ALUMINUM CHECKED	
NO. 1	RET. OF WAY (C/PK 11)	
NO.	CADD FILE NAME	

PROFILE SUBMITTED	DATE
NOTE BOOK	
NO. 1	
NO.	



MATCH LINE STA. 799+00  
(SEE SHEET NO. 127)

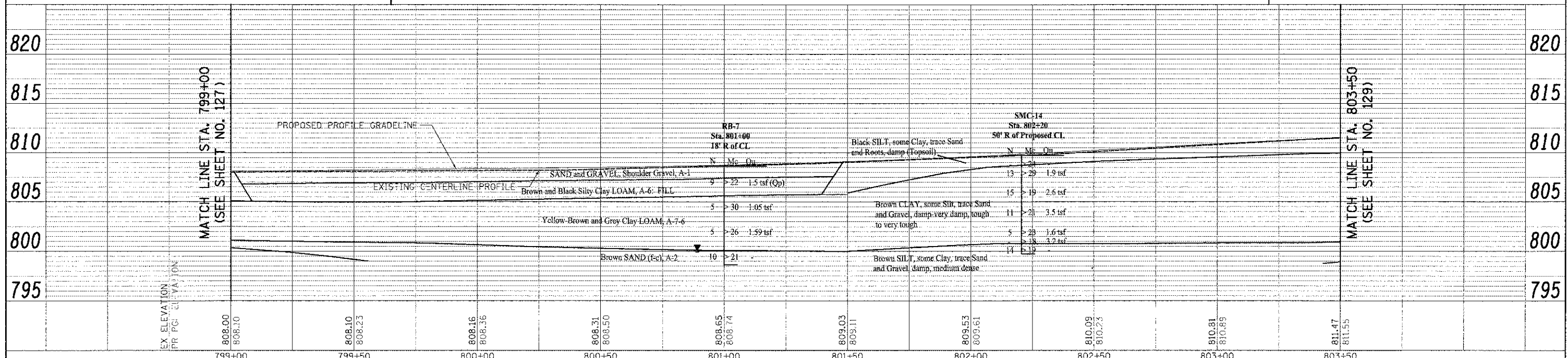
MATCH LINE STA. 803+50  
(SEE SHEET NO. 129)



**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

BORING NUMBER    CORE NUMBER  
 N = Standard Penetration Resistance, blows per foot  
 Mc = Minimum Clearance  
 Qc = Unconfined Compressive Strength, tons per square foot (tsf)  
 Qu = Unconfined Compressive Strength, tons per square foot (tsf)  
 \* = Sample tested for Classification  
 Sample Level Drilling  
 \*Favorable Materials\* refers to roadway bituminous pavement materials, granular base course materials, granular shoulder materials, and minor roadway and easement P&U materials.



EX ELEVATION	808.00	808.10	808.10	808.23	808.16	808.36	808.31	808.50	808.65	808.74	809.03	809.11	809.53	809.61	810.09	810.23	810.81	810.89	811.47	811.55
PR PG. ELEVATION	808.00	808.10	808.10	808.23	808.16	808.36	808.31	808.50	808.65	808.74	809.03	809.11	809.53	809.61	810.09	810.23	810.81	810.89	811.47	811.55
	799+00	799+50	800+00	800+50	801+00	801+50	802+00	802+50	803+00	803+50										



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PLOT SCALE = 20.0000 1" = 20'	CHECKED - MSET	REVISED -
PLGT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 137**  
**SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20'    SHEET NO. 3 OF 5 SHEETS    STA. 799+00 TO STA. 803+50

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 128
CONTRACT NO. 63640			ILLINOIS FED. AID PROJECT	

**SOIL PROFILE DRAWING**  
 MIDLAND STANDARD ENGINEERING & TESTING, INC.  
 ATKINSON ROAD IMPROVEMENTS STAGE 1A  
 GRAYSLAKE, ILLINOIS  
 MSET PROJECT NO. 88297  
 JANUARY 2009

**LEGEND**

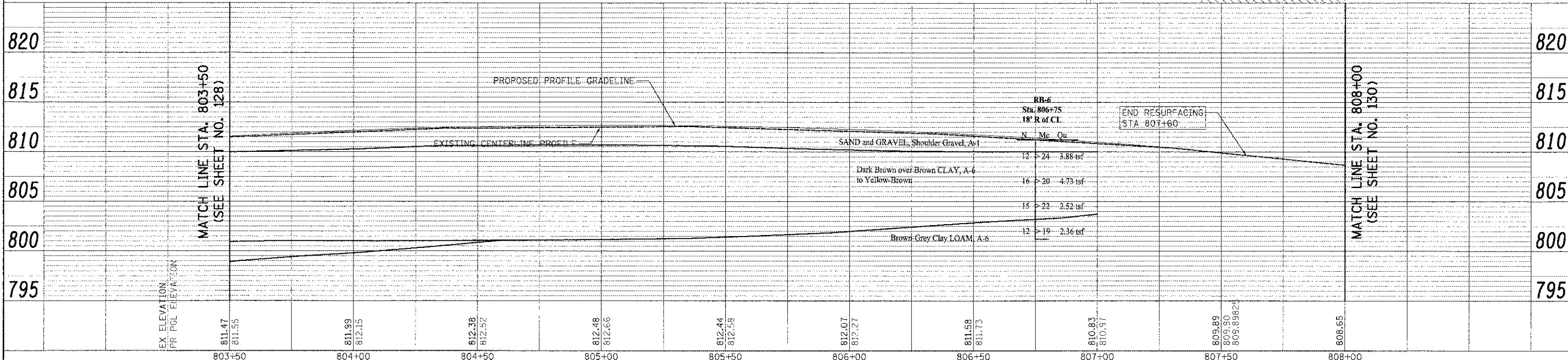
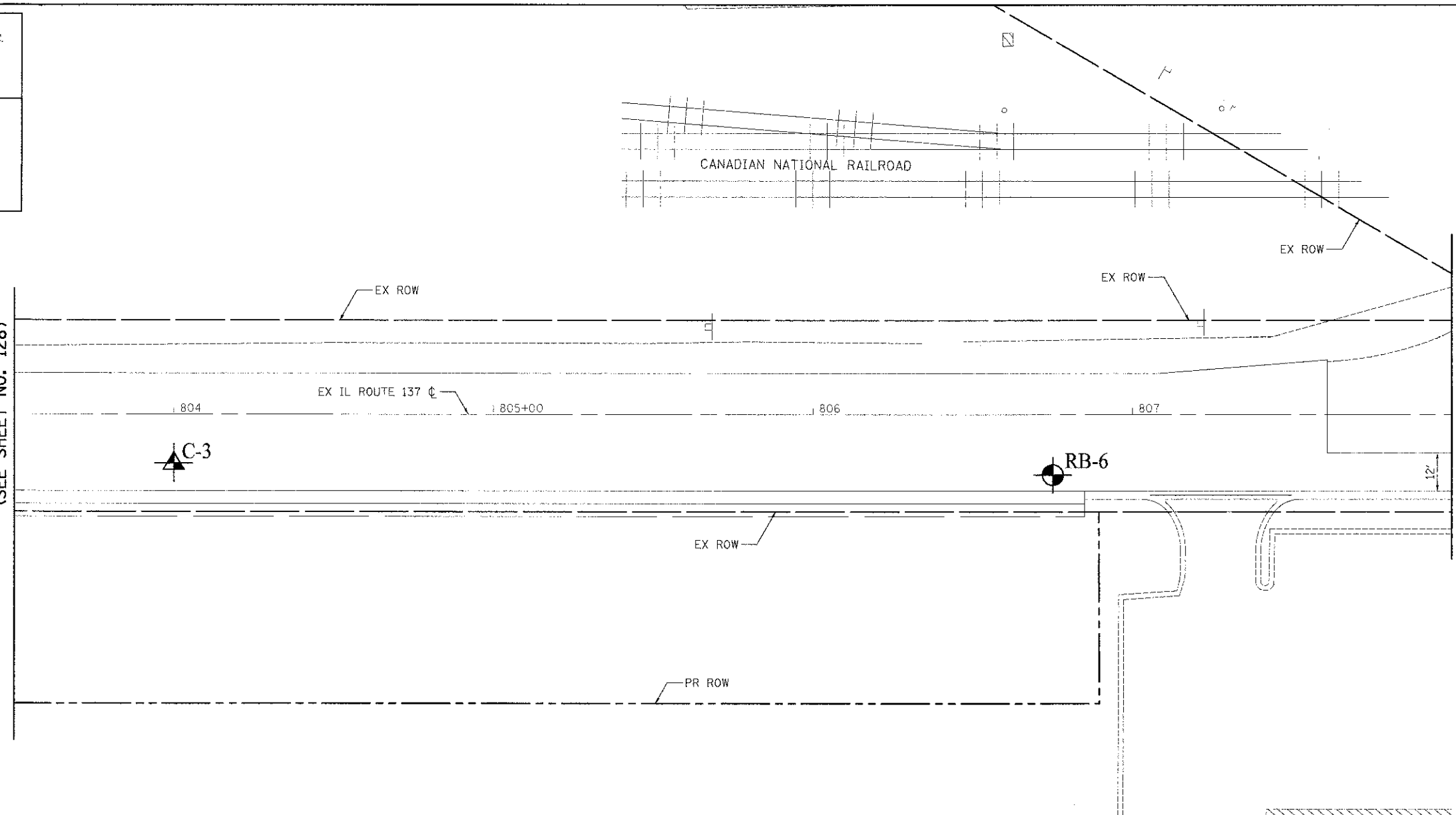
BORING NUMBER    CORE NUMBER  
 N - Standard Penetration Testimony, blows per foot  
 Mc - Matrix Content  
 Q<sub>u</sub> - Unconfined Compressive Strength, tons per square foot (tsf)  
 C<sub>u</sub> - Unconfined Compressive Strength, tons per square foot (tsf)  
 - Sample tested for Classification  
 - Water Content (Liquid Limit)  
 "Parent Material" refers to roadway construction pavement materials, granular base course materials, granular shoulder materials, and other roadway and shoulder FILL materials

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SUPERVISOR: \_\_\_\_\_  
 ALIEN (R) (P) (D) (S) (T) (U) (V) (W) (X) (Y) (Z)  
 NO. OF BOOK: \_\_\_\_\_  
 NO. OF SHEETS: \_\_\_\_\_  
 NO. OF THIS SHEET: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SUPERVISOR: \_\_\_\_\_  
 ALIEN (R) (P) (D) (S) (T) (U) (V) (W) (X) (Y) (Z)  
 NO. OF BOOK: \_\_\_\_\_  
 NO. OF SHEETS: \_\_\_\_\_  
 NO. OF THIS SHEET: \_\_\_\_\_

MATCH LINE STA. 803+50  
 (SEE SHEET NO. 128)

MATCH LINE STA. 808+00  
 (SEE SHEET NO. 130)



USER NAME = eds  
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 PLOT SCALE = 28.0000  
 PLOT DATE = 2/2/2012

DESIGNED - MSET  
 DRAWN - MSET  
 CHECKED - MSET  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 137**  
**SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20'    SHEET NO. 4 OF 5 SHEETS    STA. 803+50 TO STA. 808+00

F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 198 00-00045-00-PV LAKE 195 129  
 CONTRACT NO. 63640

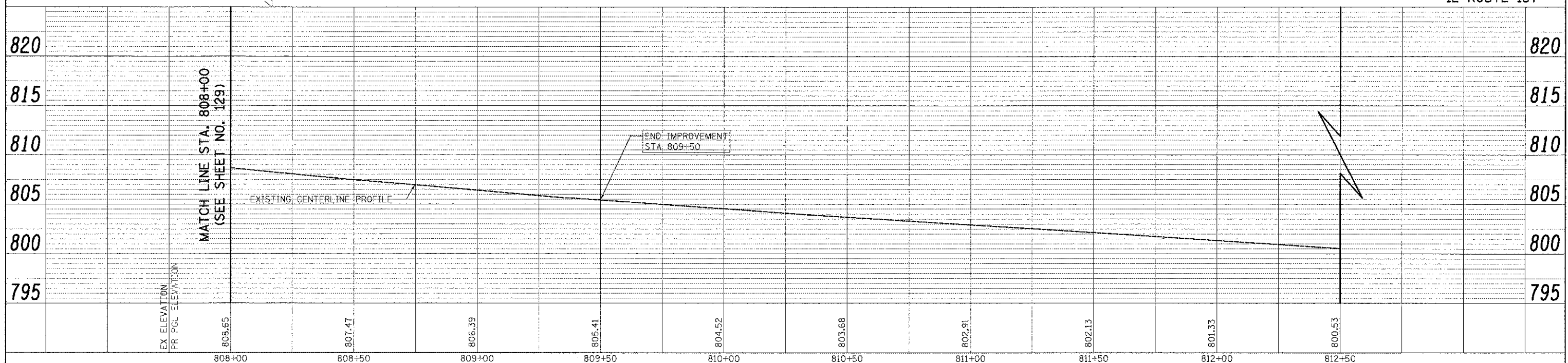
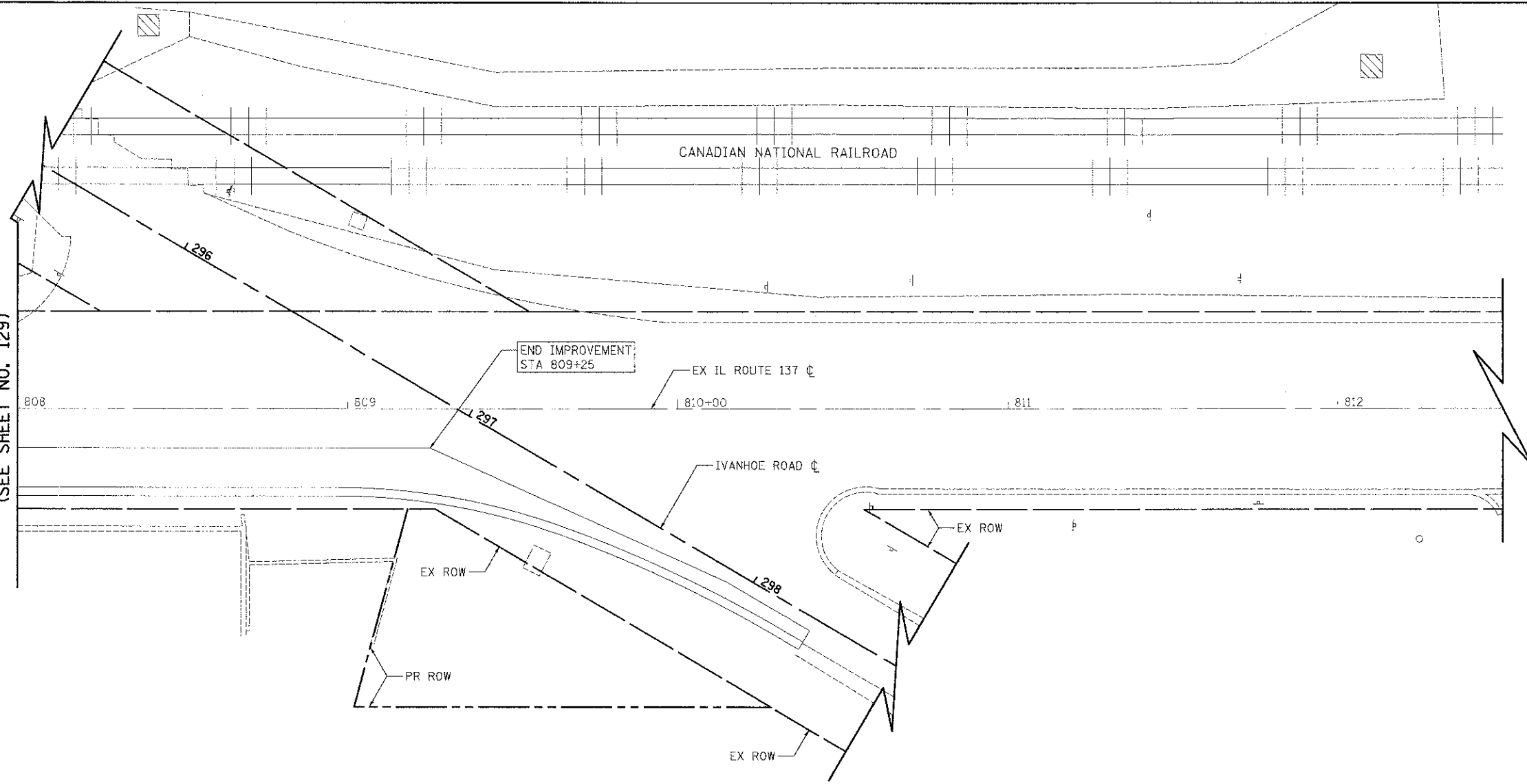
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

PLAN  
 SURVEYED BY DATE  
 ALGABRA CHECKED  
 NOTE BOOK NO. OF WAY CHECKED  
 NO. JOB FILE NAME

PROFILE  
 SURVEYED BY DATE  
 ALGABRA CHECKED  
 NOTE BOOK NO. OF WAY CHECKED  
 NO. STRUCTURE NOTATIONS OTHER

MATCH LINE STA. 808+00  
 (SEE SHEET NO. 129)

MATCH LINE STA. 808+00  
 (SEE SHEET NO. 129)



USER NAME: eds  
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 PLOT DATE: = 2/2/2012

DESIGNED - MSET  
 DRAWN - MSET  
 CHECKED - MSET  
 DATE - 02/06/12

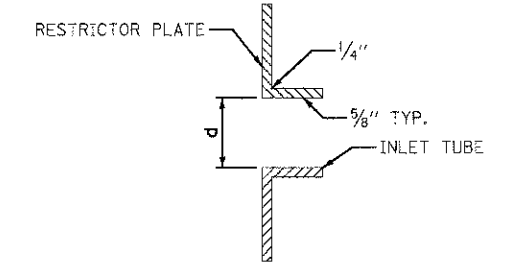
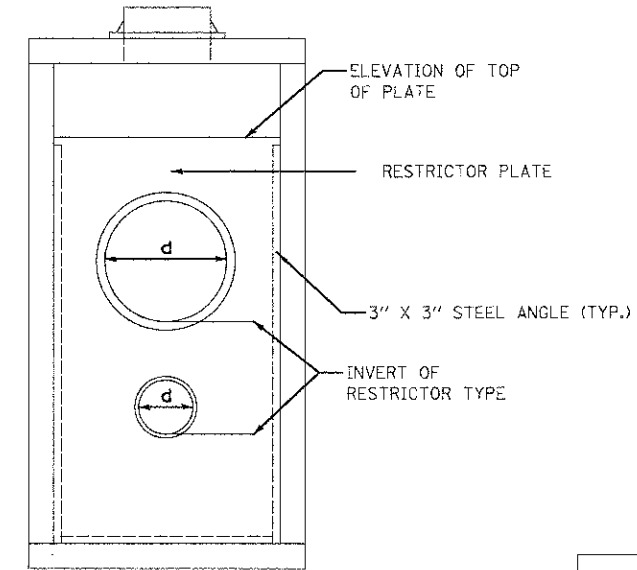
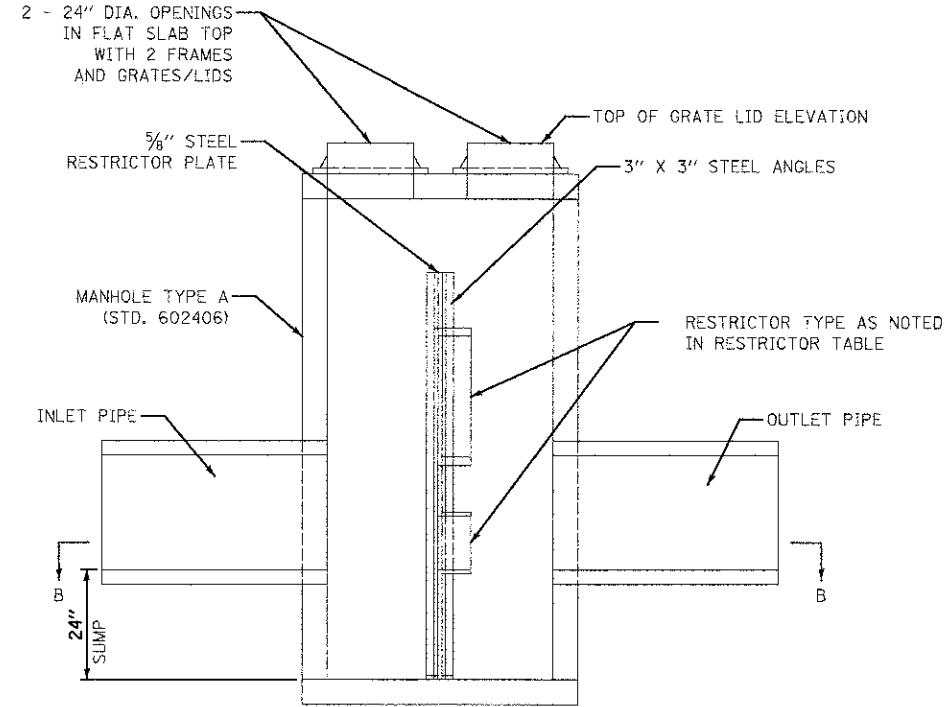
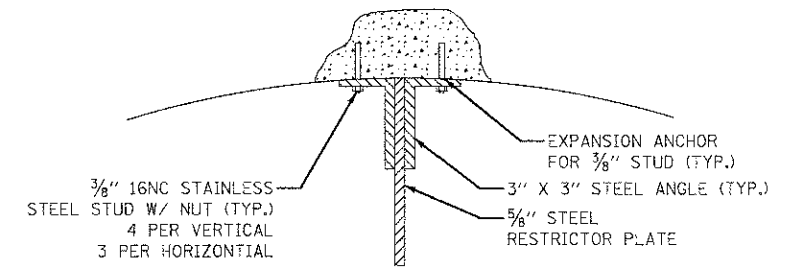
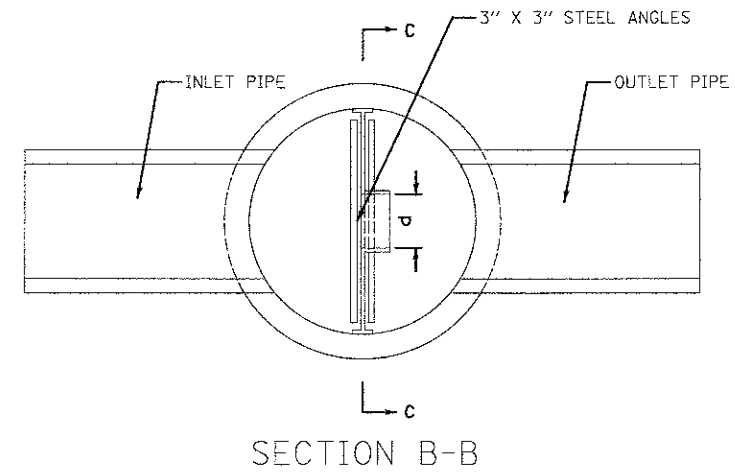
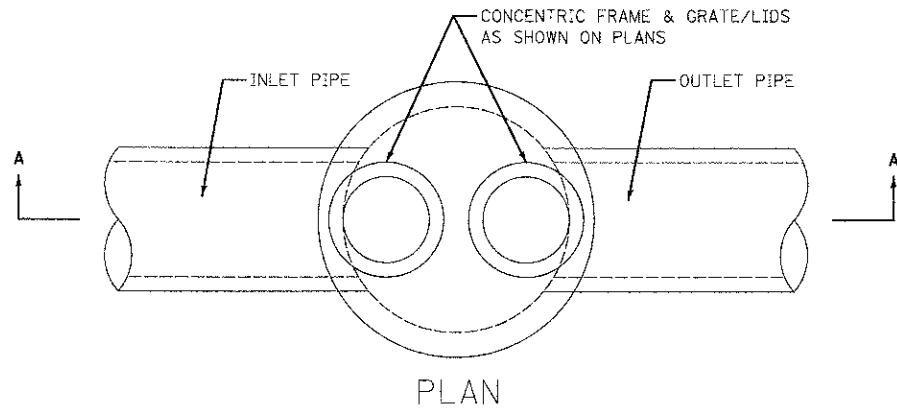
REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

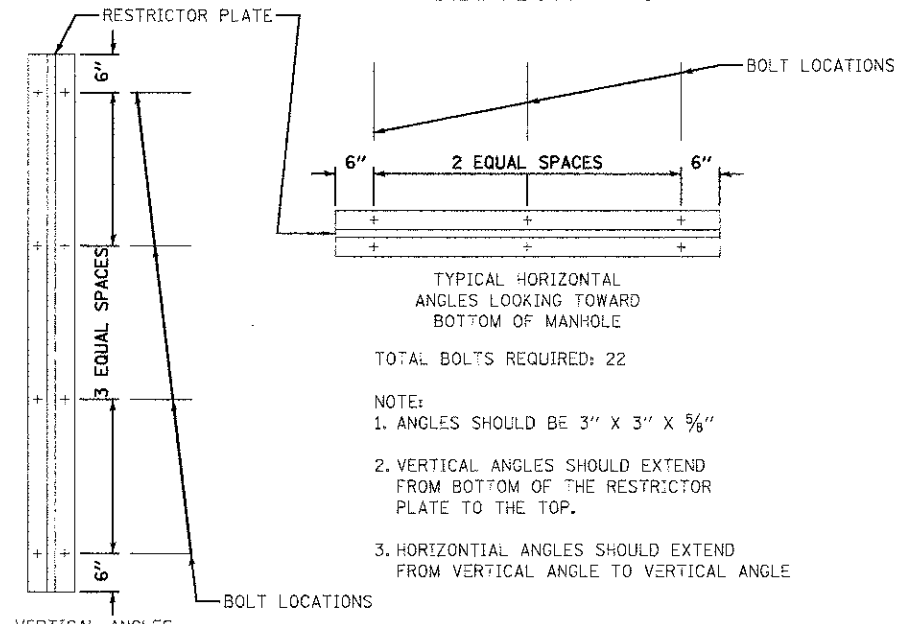
**IL ROUTE 137  
 SOIL BORING LOCATION PLAN & SOIL PROFILE**

SCALE: 1" = 20' SHEET NO. 5 OF 5 SHEETS STA. 808+00 TO STA. 810+56.65

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 130
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	



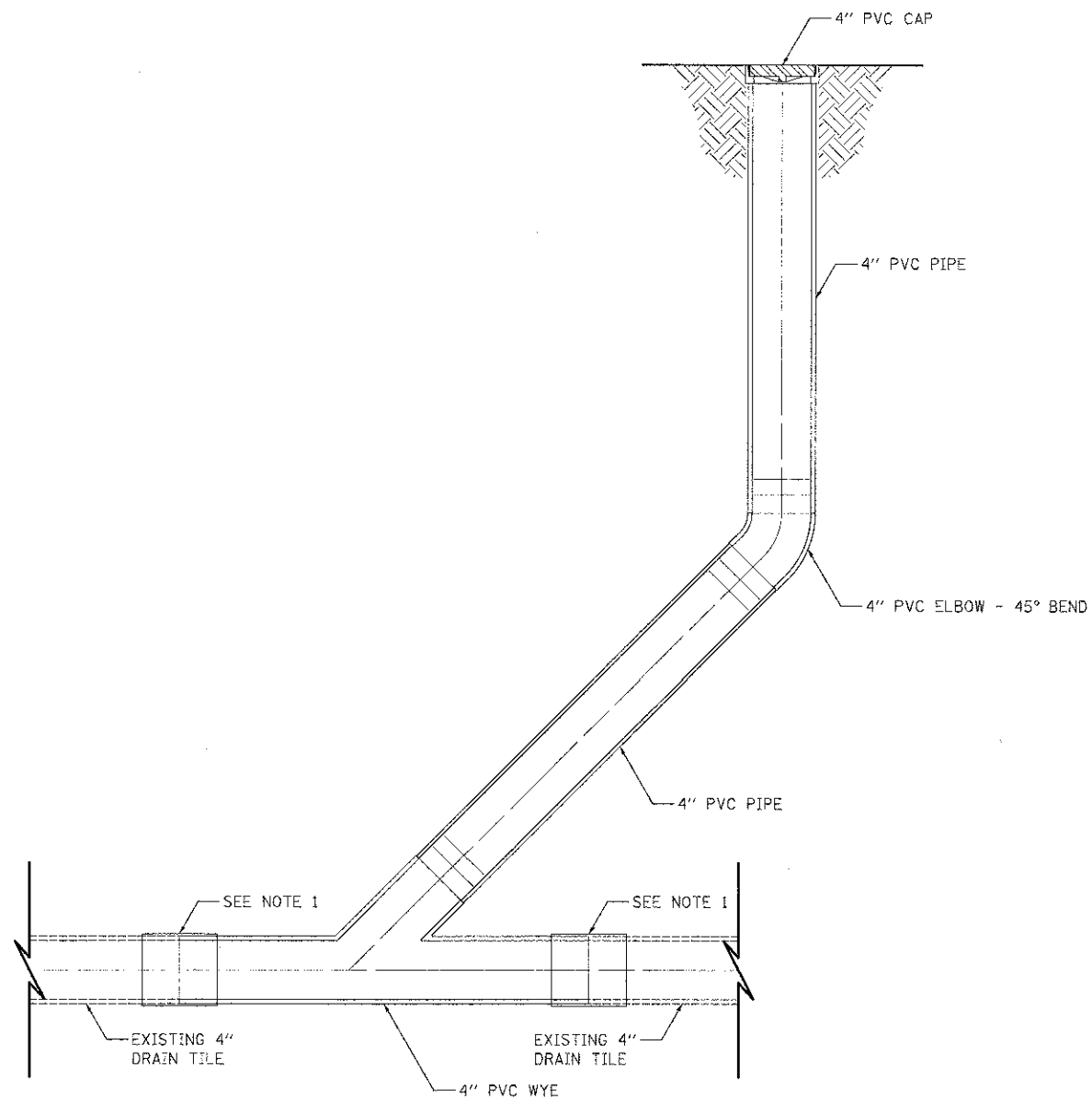
STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER IN. (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
5+23.2 LT.	6'	2 - T1F CL	3	6.5	788.00	793.30
			3	20.7	790.60	



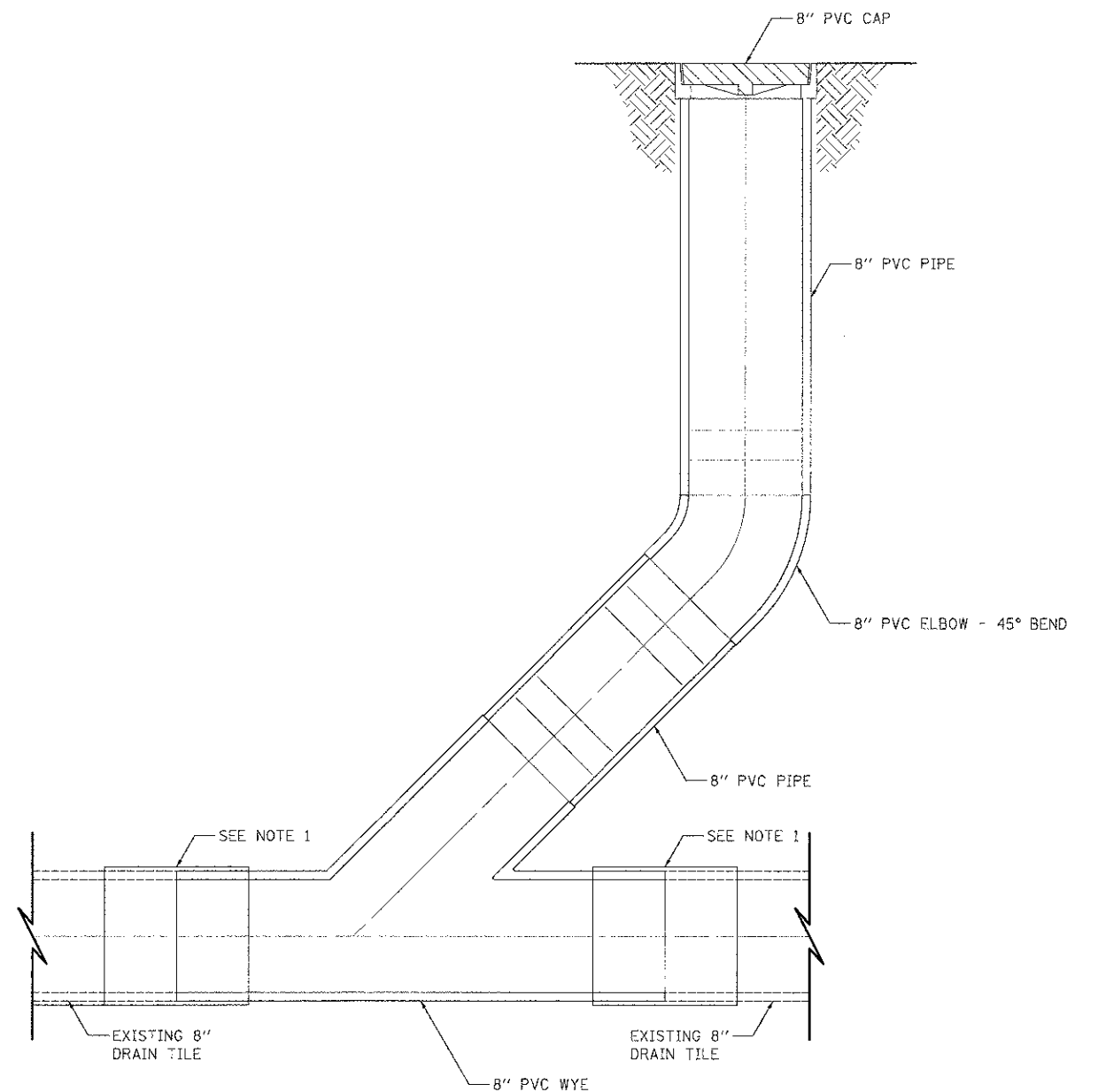
RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

- NOTE:  
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION  
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE  
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" PER EACH



**FIELD TILE INSPECTION STRUCTURE  
(4" PVC DETAIL)**



**FIELD TILE INSPECTION STRUCTURE  
(8" PVC DETAIL)**

**NOTES**

1. SEE DETAIL "B" OF STANDARD BD-7 (DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER) FOR COLLAR DETAILS. FOLLOW ALL CONSTRUCTION SEQUENCES IN STANDARD DETAIL.
2. ALL FIELD TILE INSPECTION STRUCTURES TO BE PAID FOR AS "FIELD TILE INSPECTION STRUCTURE" PER EACH.



USER NAME: eds  
 FILE NAME: ...N2189-shd-detail@2.dgn  
 PLOT SCALE: 1/3200 / in.  
 PLOT DATE: 2/2/2012

DESIGNED: MJP  
 DRAWN: MJP  
 CHECKED: DNM  
 DATE: 02/06/12

REVISED: -  
 REVISED: -  
 REVISED: -  
 REVISED: -

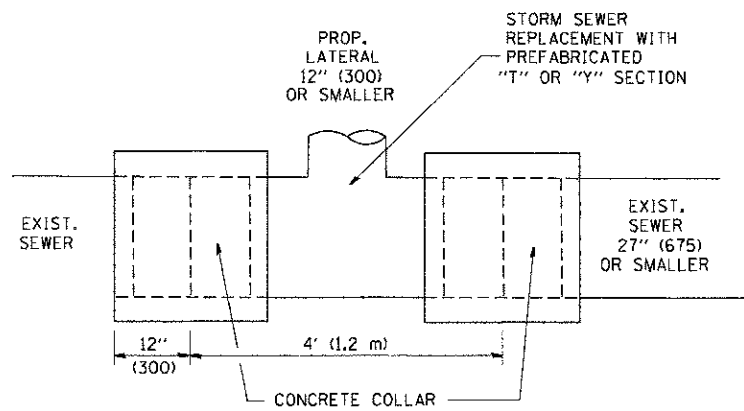
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS  
FIELD TILE INSPECTION STRUCTURE**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

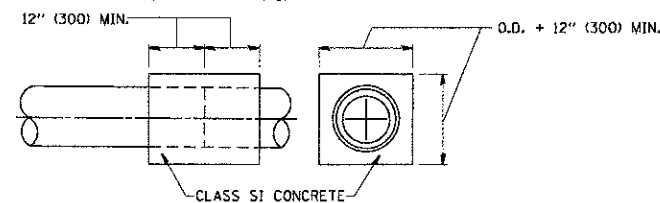
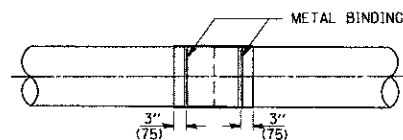
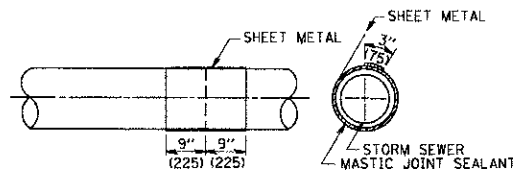
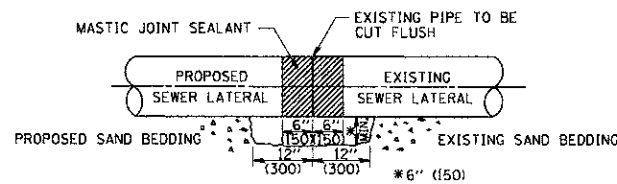
F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 132
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

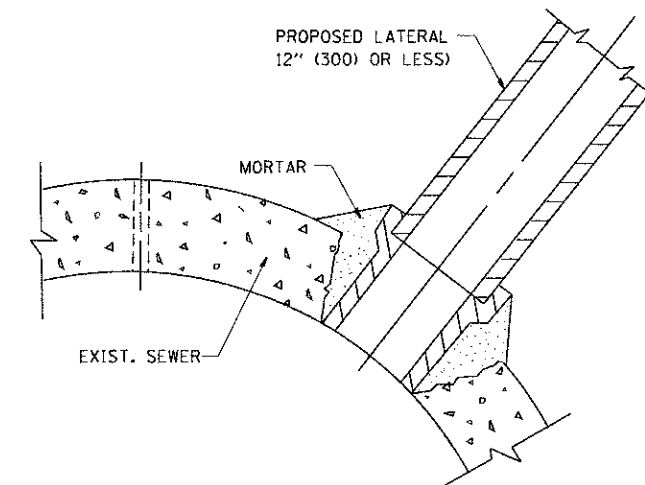


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

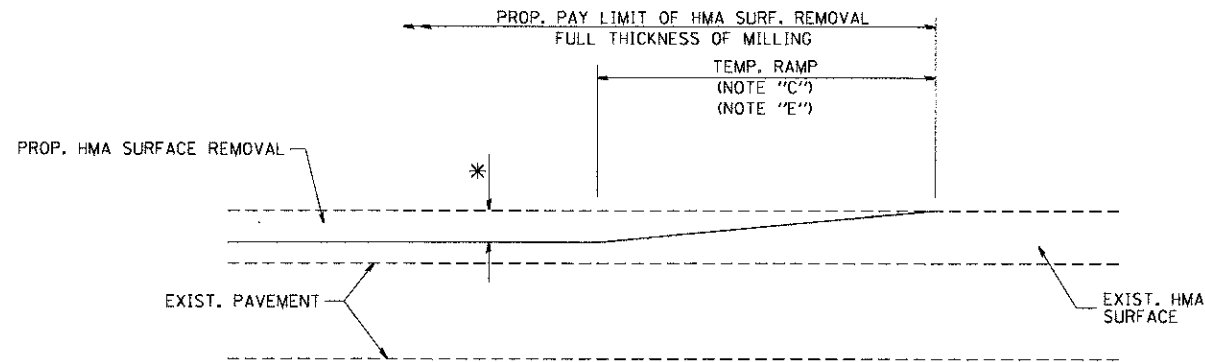
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

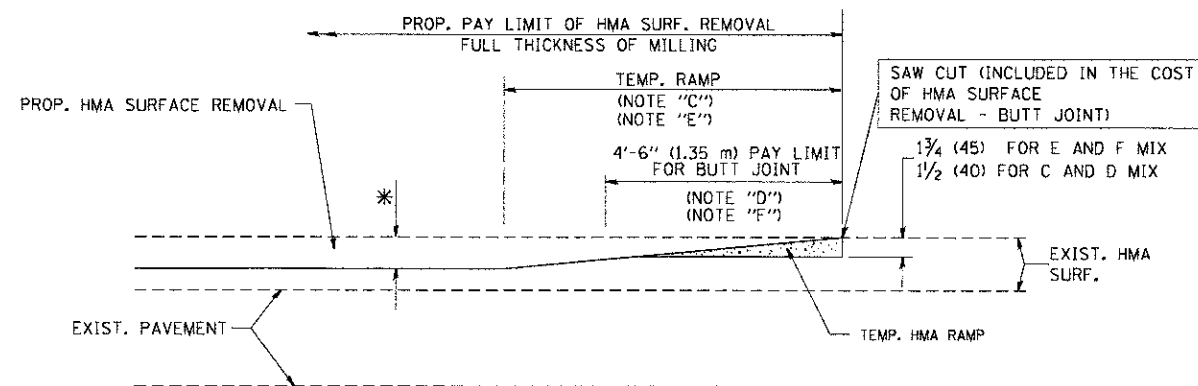
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dms\std\22x34\vd87.dgn	USER NAME = geglionob	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>			F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 133
	PLOT SCALE = 50:000 1" = 50'	DRAWN -	REVISED - R. SHAH 09-09-94		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BD500-01 (BD-7)</b>		CONTRACT NO.	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. SHAH 10-25-94		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96									



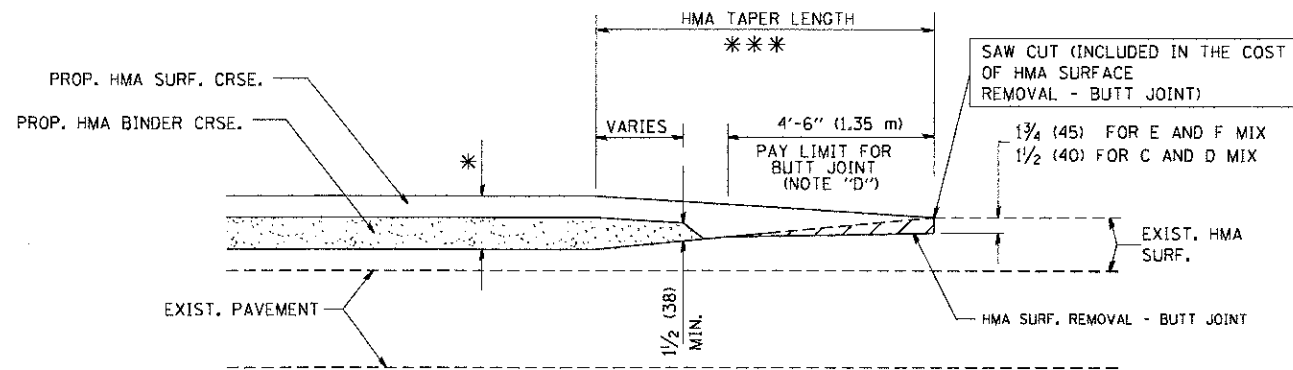
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

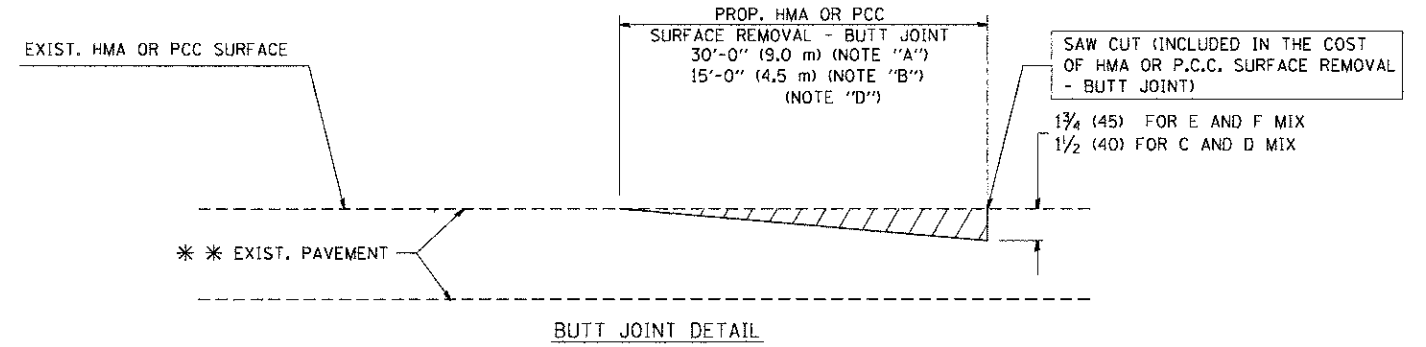


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

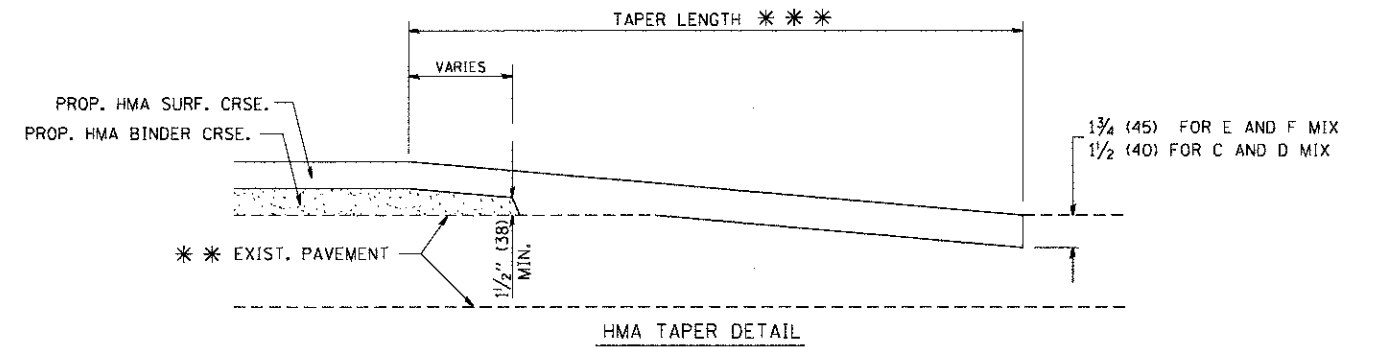
**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER**  
**FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER**  
**FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

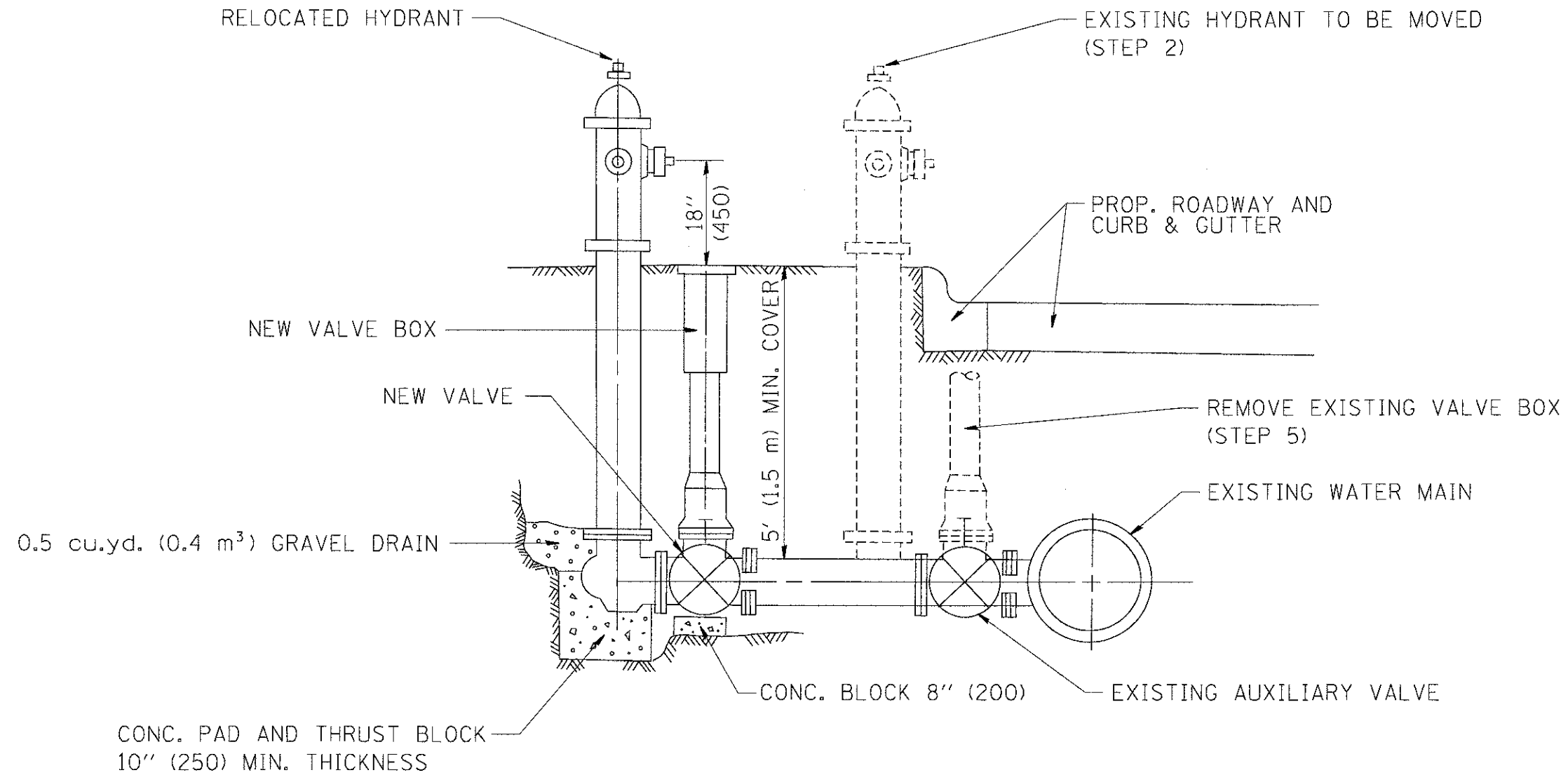
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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND**  
**HMA TAPER DETAILS**

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

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 134
BD400-05 BD32			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SEQUENCE OF CONSTRUCTION:

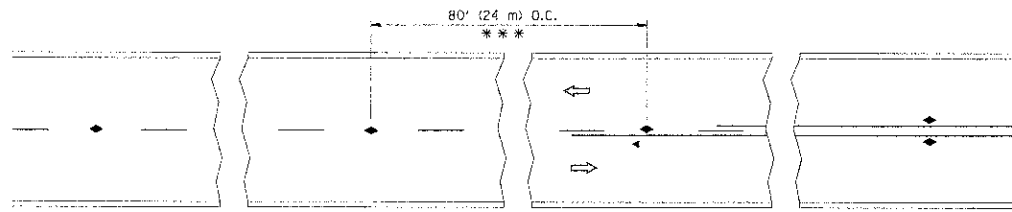
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

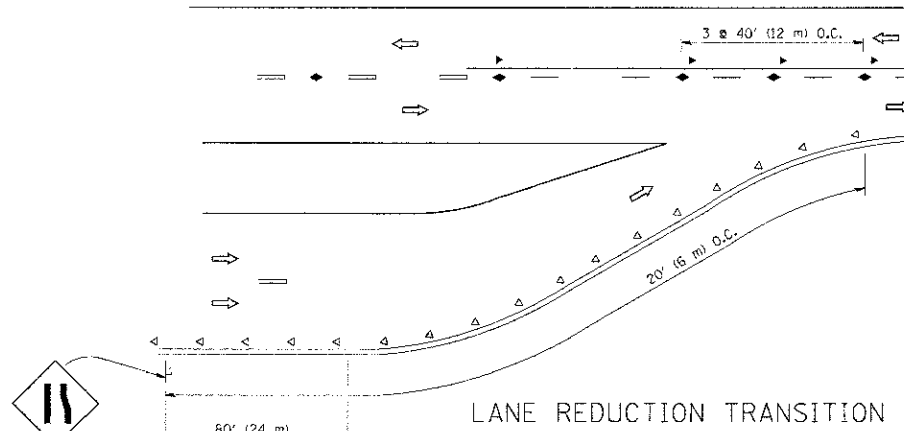
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - R. SHAH 10-25-94					198	00-00045-00-PV	LAKE	195	135
PLOT DATE = 1/4/2008	CHECKED -	REVISED -	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BD-36</b>		CONTRACT NO.		
DATE -	REVISED -	REVISED -	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT									

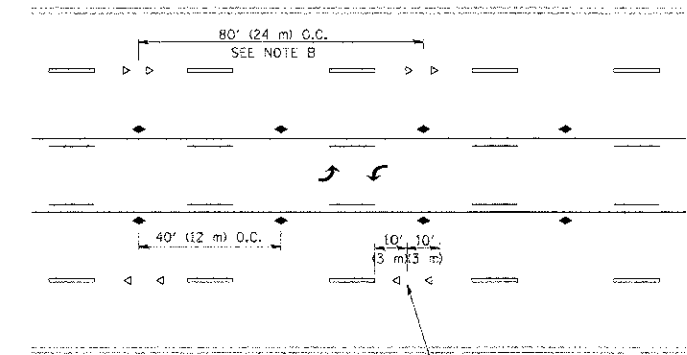


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

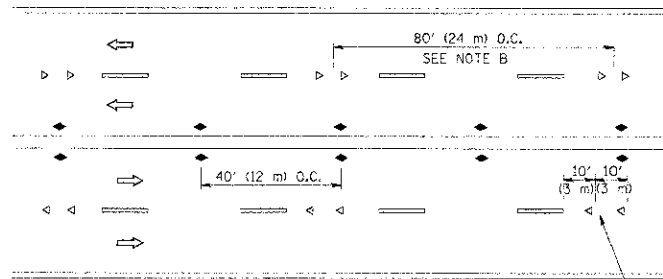
TWO-LANE/TWO-WAY



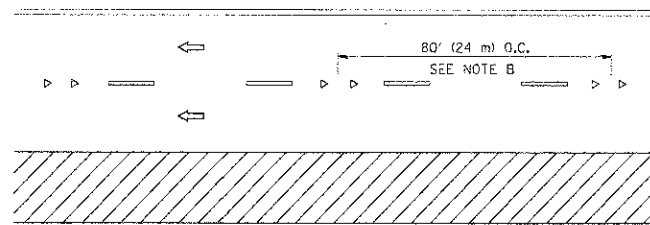
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

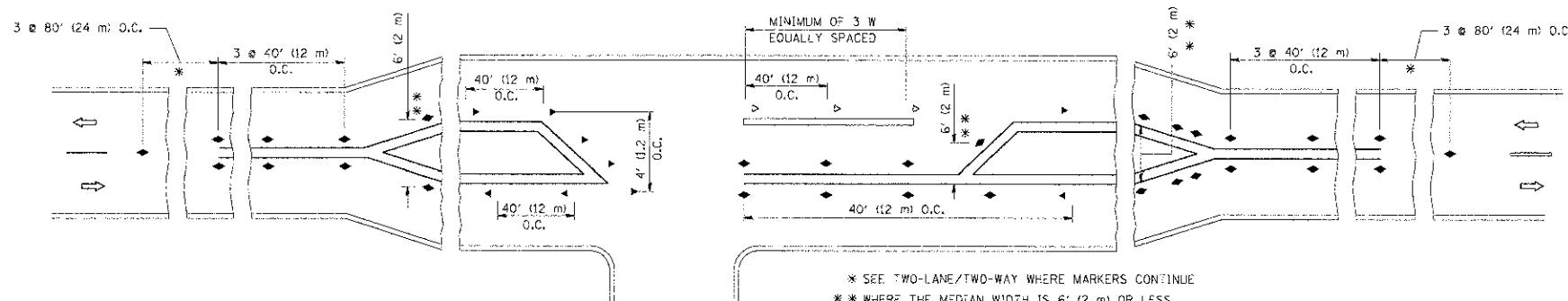
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

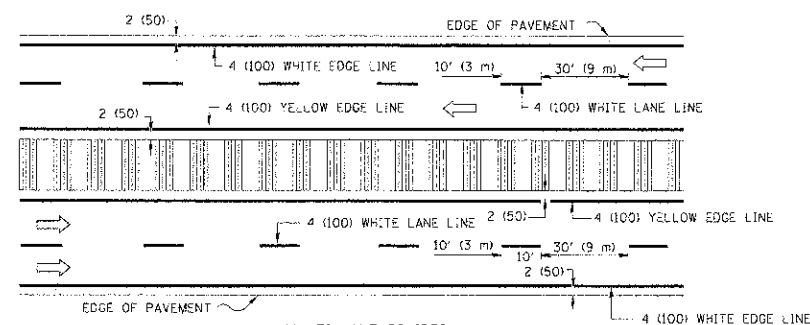
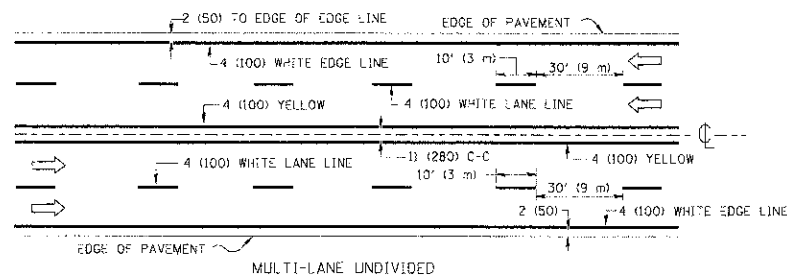
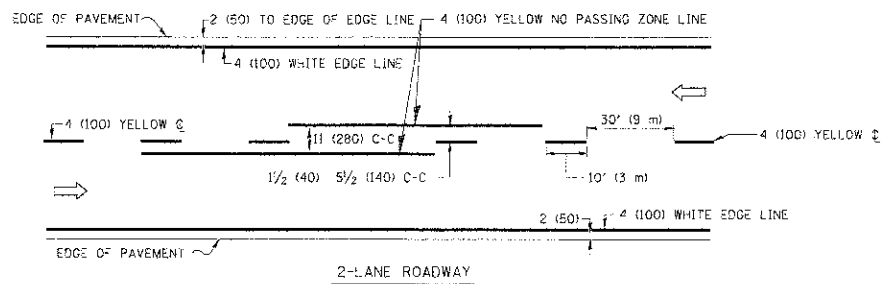


LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

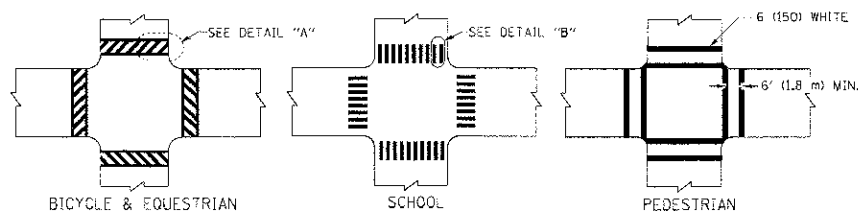
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 136
o:\work\pavdat\drivakosgn\08120315\1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>TC-11</b>		CONTRACT NO.	
		PL01 SCL17 = 50,000 / IN.	REVISED - T. RAMMACHER 01-06-00		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							
		PL01 DATE = 9/9/2009	REVISED - C. JUCIUS 09-09-09									

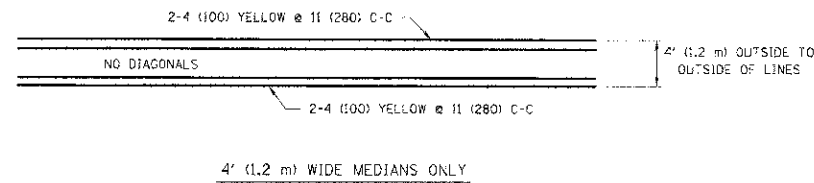


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

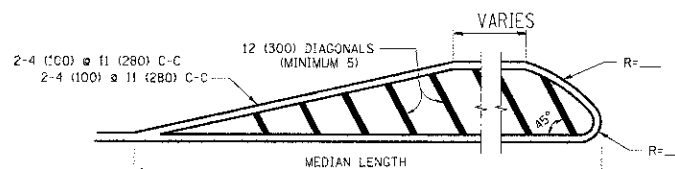
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

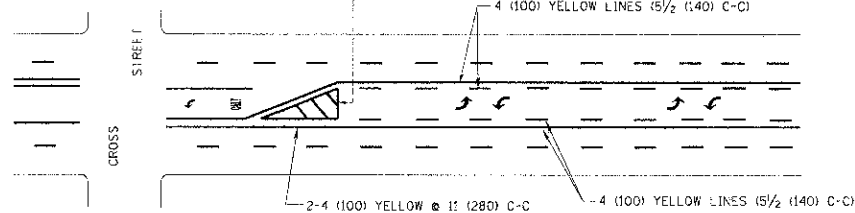


4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (22.5 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

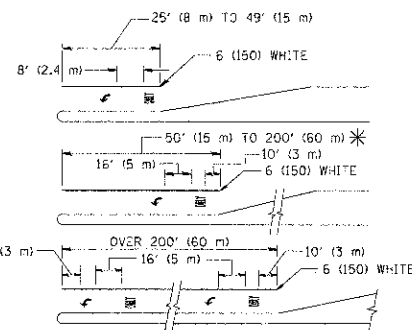
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

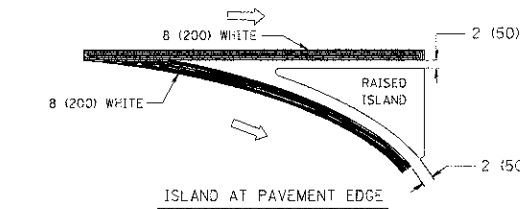
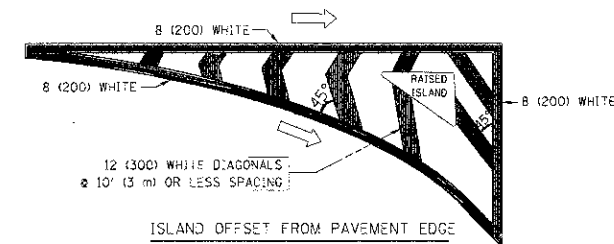
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

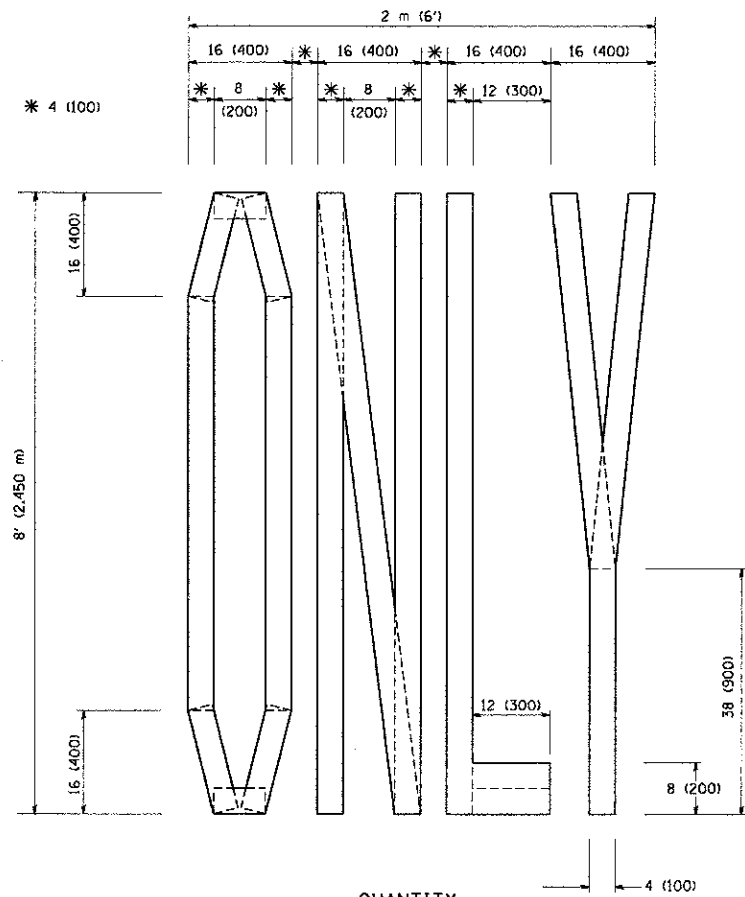


TYPICAL ISLAND MARKING

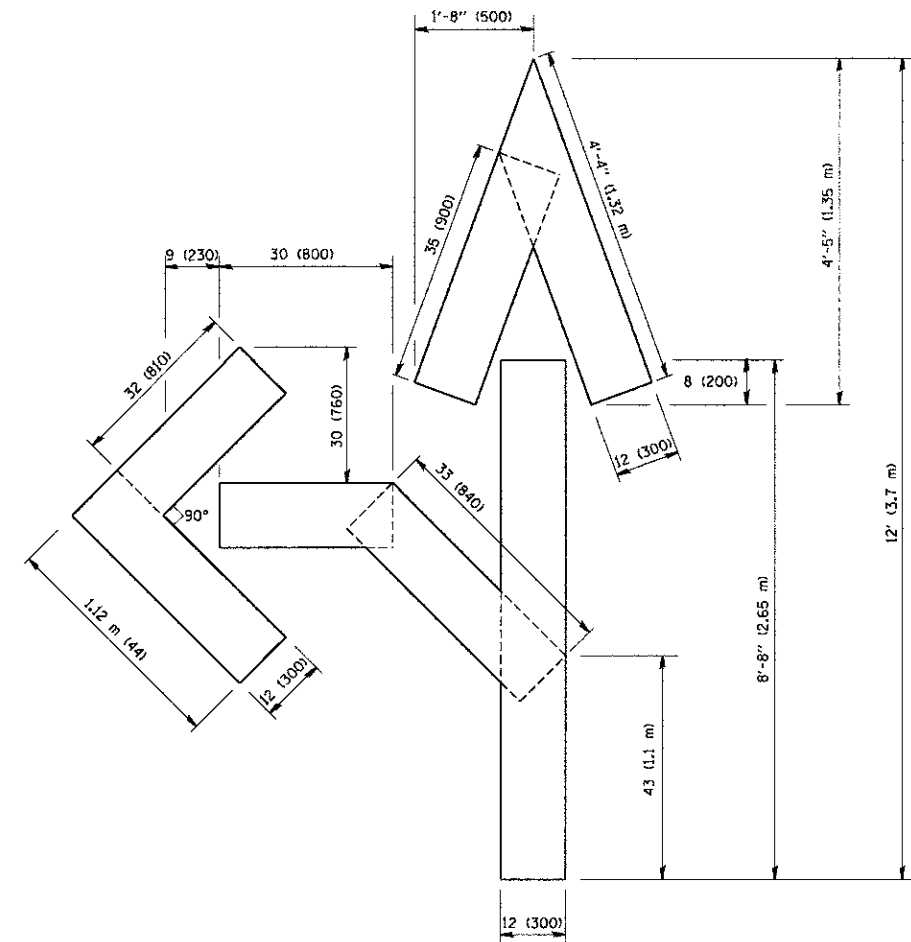
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

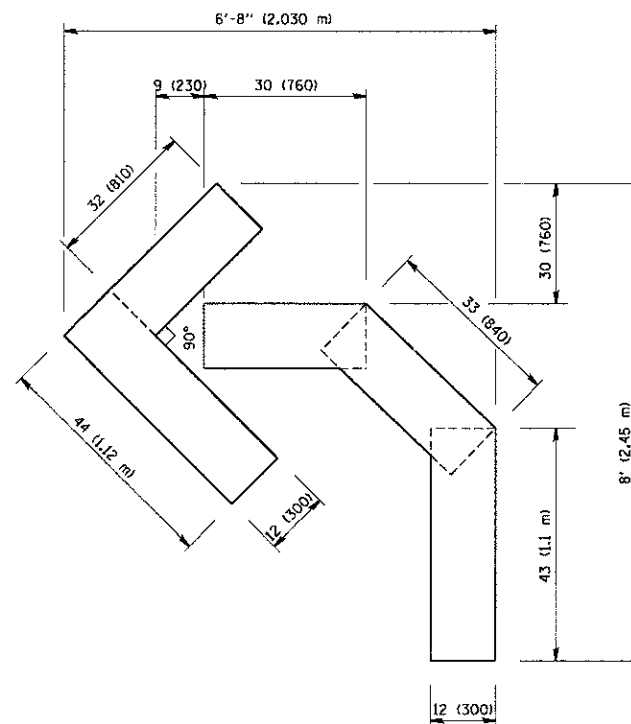
All dimensions are in inches (millimeters) unless otherwise shown.



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\aistatd\22x34\tcl6.dgn	USER NAME = gogfranobt	DESIGNED -	REVISED - T. RAMMACHER 06-05-96
		DRAWN -	REVISED - T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE = 09-18-94	REVISED - E. GOMEZ 08-28-00

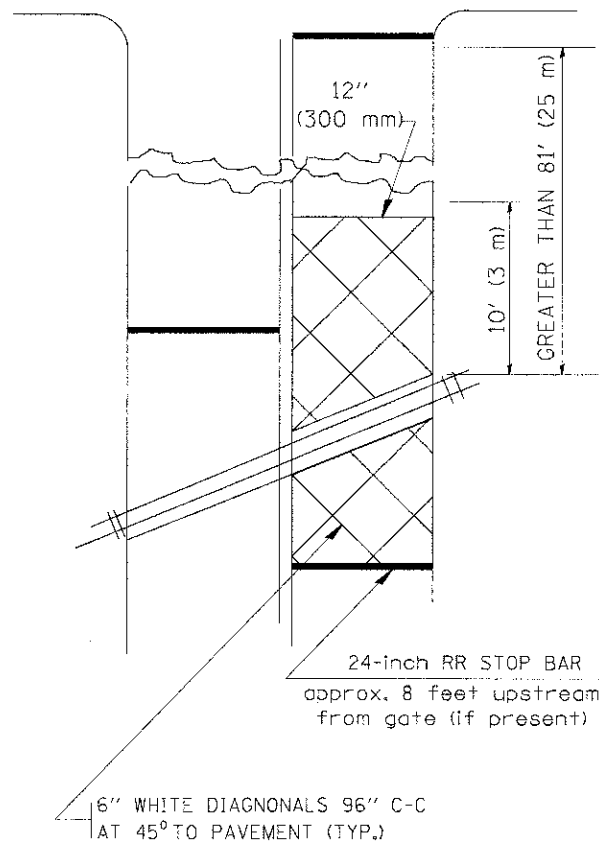
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

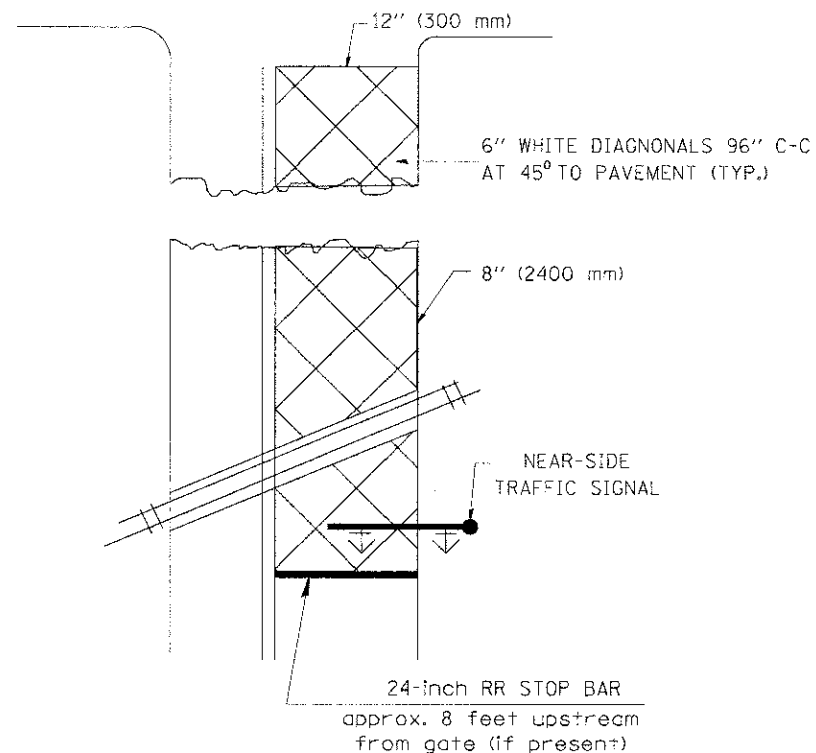
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 138
TC-16		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

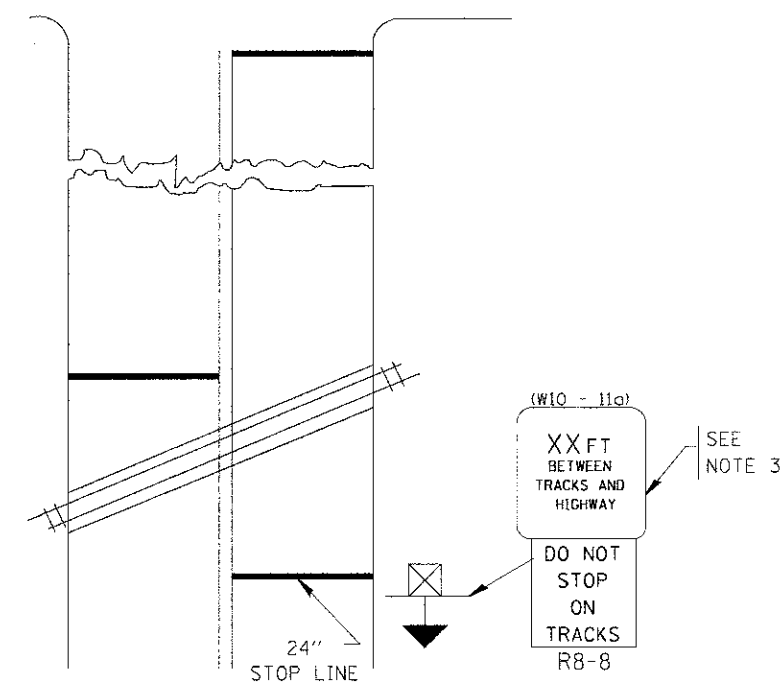
WITH INTERSECTION TRAFFIC SIGNALS  
(SEE NOTE 1)



WITH NEAR-SIDE TRAFFIC SIGNALS  
(SEE NOTE 1 & 2)



WITH NONSIGNALIZED INTERSECTION  
81' (25 m) OR LESS TO CLOSEST RAIL



PLAN  
N. T. S.

PLAN  
N. T. S.

NOTES:

1. PAVEMENT MARKINGS TO BE INSTALLED ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
3. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.





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

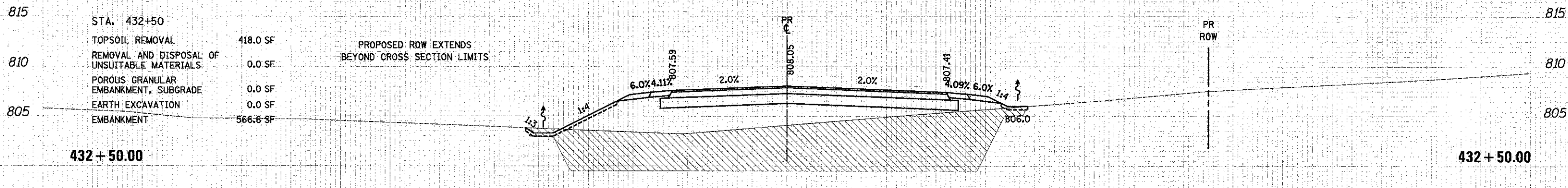
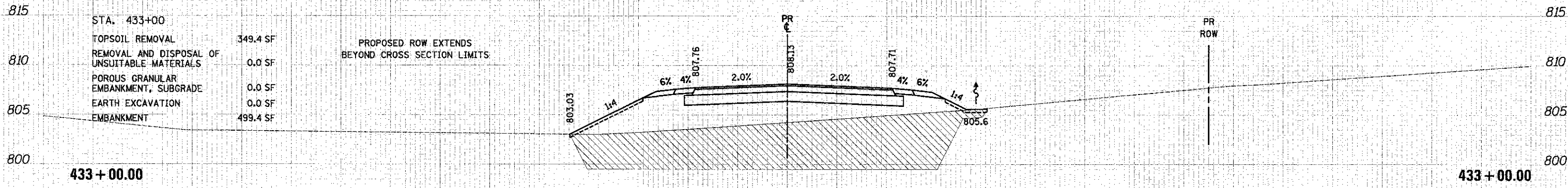
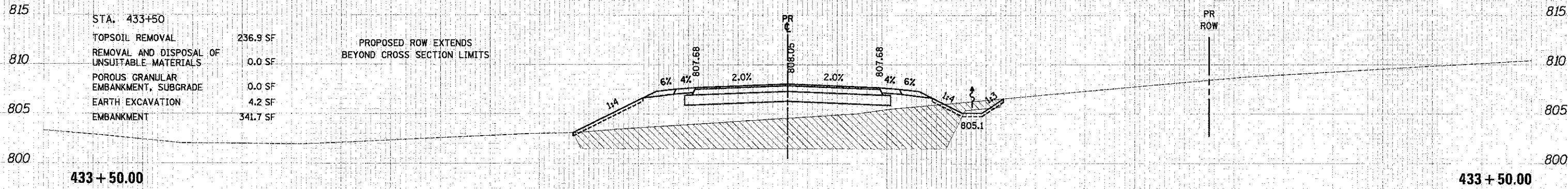
FILE NAME =	USER NAME = kenhephixayoo	DESIGNED =	REVISED = 02-25-11	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS</b>	F.A.D. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.	
c:\nowork\p1dot1\kenhephixayoo\d811261	\tr0f\to_legend_v8.dgn	DRAWN =	REVISED =			198	00-00045-00-PV	LAKE	195	139
	PLOT SCALE = 48.9999 1/8 IN.	CHECKED =	REVISED =			CONTRACT NO.				
	PLOT DATE = 3/4/2011	DATE =	REVISED =			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FIN.	
SURVEY	
NOTES	
BOOK	
AREAS	
CHECKED	

DATE	
BY	
FIN.	
SURVEY	
NOTES	
BOOK	
AREAS	
CHECKED	

**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H SHEET NO. 1 OF 26 SHEETS STA. 432+50.00 TO STA. 433-50.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 140
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 63640

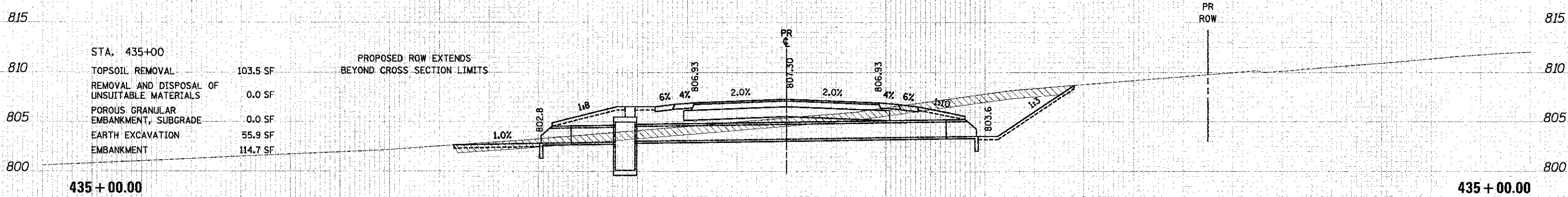


**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

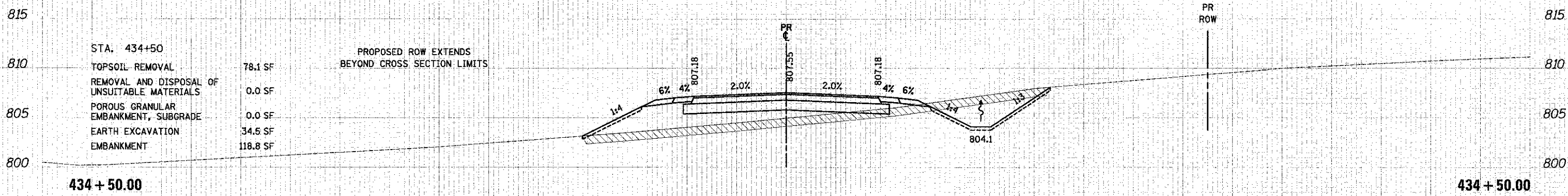
DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	



STA. 435+00

TOPSOIL REMOVAL	103.5 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	55.9 SF
EMBANKMENT	114.7 SF

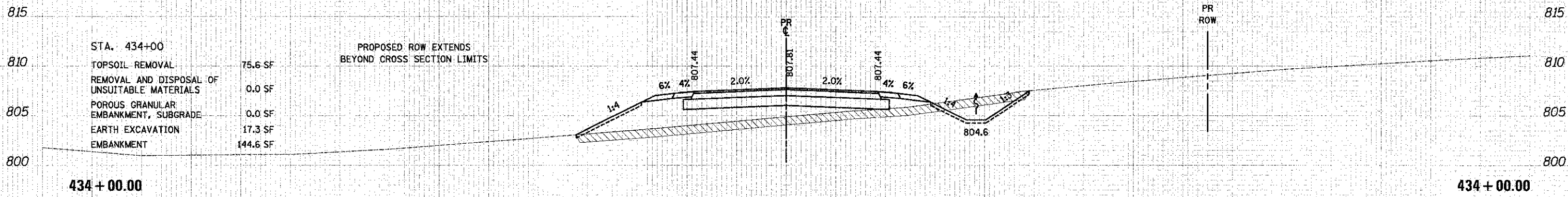
PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



STA. 434+50

TOPSOIL REMOVAL	78.1 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	34.6 SF
EMBANKMENT	118.8 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



STA. 434+00

TOPSOIL REMOVAL	75.6 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	17.3 SF
EMBANKMENT	144.6 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



USER NAME	eds	DESIGNED	JSM	REVISED	-
FILE NAME	...12199-sht-xesht-otk.dgn	DRAWN	JSM	REVISED	-
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PLOT DATE	2/2/2012	DATE	02/06/12	REVISED	-





**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H SHEET NO. 2 OF 26 SHEETS STA. 434+00.00 TO STA. 435+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET
198	00-00045-00-PV	LAKE	195 141
CONTRACT NO.			63640
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

**LEGEND**

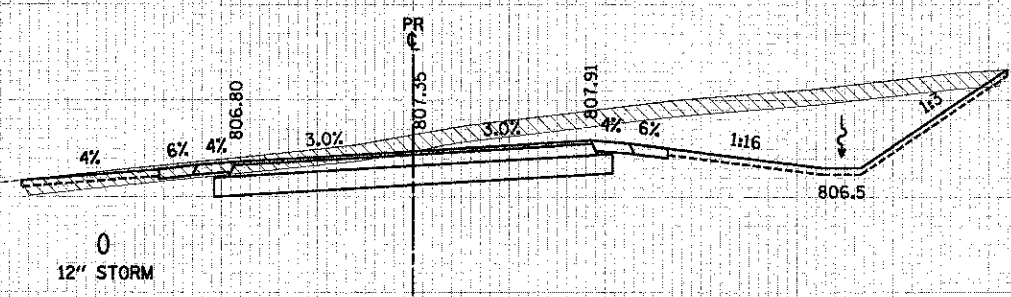
-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

FINAL SURVEY PLOTTED  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

STA. 436+50

TOPSOIL REMOVAL	85.2 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	169.5 SF
EMBANKMENT	6.5 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



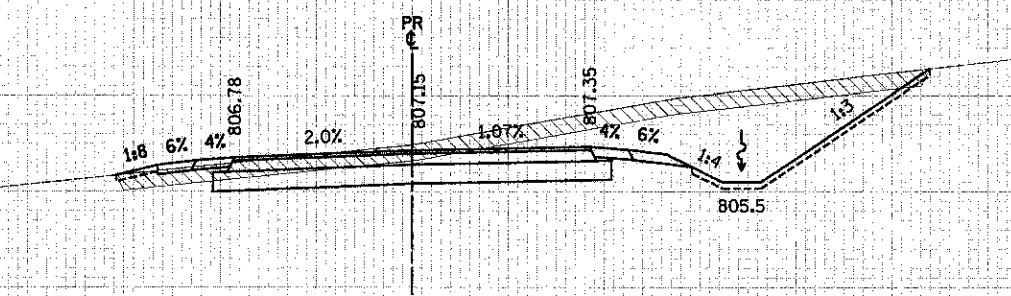
436 + 50.00

436 + 50.00

STA. 436+00

TOPSOIL REMOVAL	69.9 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	141.9 SF
EMBANKMENT	6.7 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



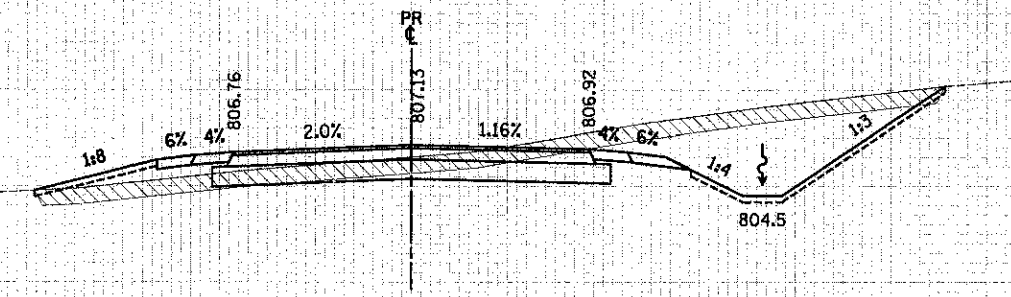
436 + 00.00

436 + 00.00

STA. 435+50

TOPSOIL REMOVAL	78.5 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	100.0 SF
EMBANKMENT	22.1 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



435 + 50.00

435 + 50.00



USFR NAME: ...  
 FILE NAME: ...  
 PLOT SCALE: 1/8"=1'-0"  
 PLOT DATE: 2/2/2012

DESIGNED - JSM  
 DRAWN - JSM  
 CHECKED - DNM  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1/8"=5'-0"/10'H SHEET NO. 3 OF 26 SHEETS STA. 435+50.00 TO STA. 436+50.00

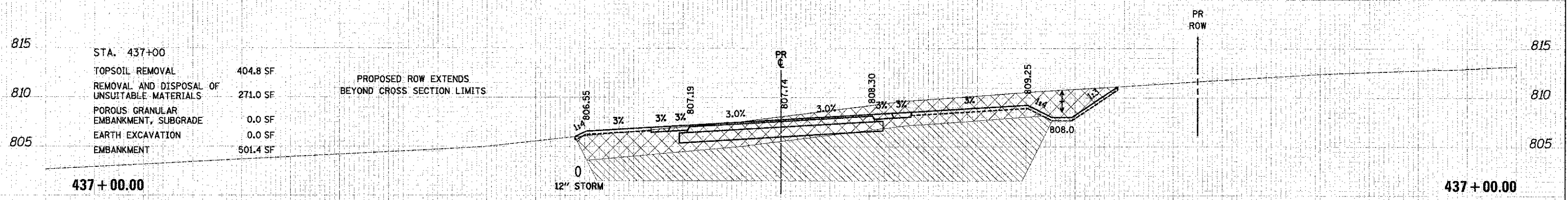
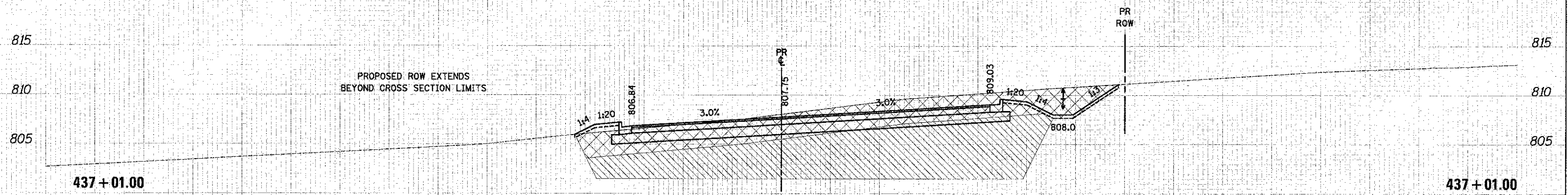
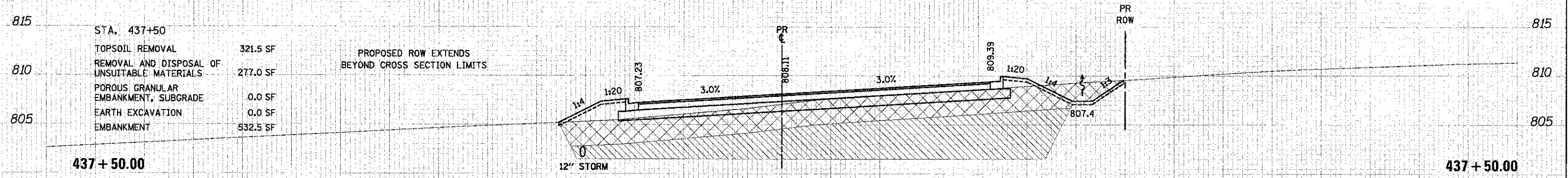
F.A.U. RTE. 19B	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 142
CONTRACT NO. 63640			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NO. T. BOOK: \_\_\_\_\_  
 TEMP. DATE: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NO. T. BOOK: \_\_\_\_\_  
 TEMP. DATE: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL



STA. 437+50

TOPSOIL REMOVAL	321.5 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	277.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	532.5 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS

STA. 437+00

TOPSOIL REMOVAL	404.8 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	271.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	501.4 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME: eds	DESIGNED: JSM	REVISED: -
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PLDT DATE: 2/2/2012	DATE: 02/06/12	REVISED: -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - ATKINSON ROAD

SCALE: 1"=5'-10" SHEET NO. 4 OF 26 SHEETS STA. 437+00.00 TO STA. 437+50.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 143
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 TEMP. AT: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 TEMP. AT: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

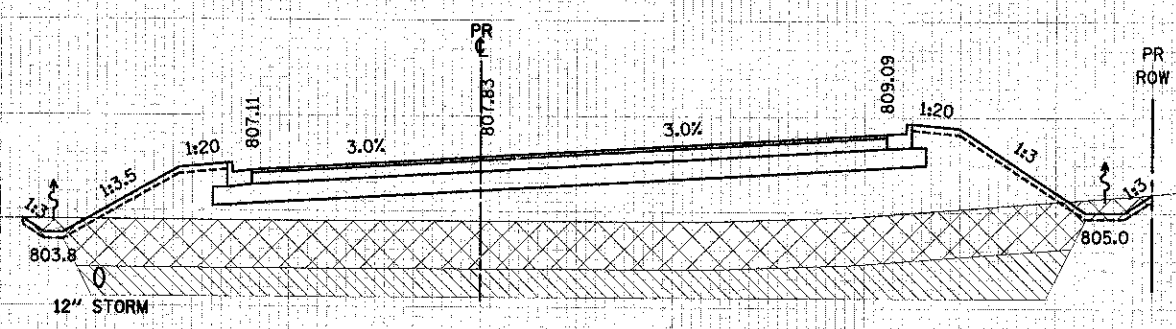
815 STA. 439+00 815

TOPSOIL REMOVAL	166.8 SF	PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	274.7 SF	
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
EARTH EXCAVATION	0.0 SF	
EMBANKMENT	618.6 SF	

810

805

800 **439 + 00.00** 800



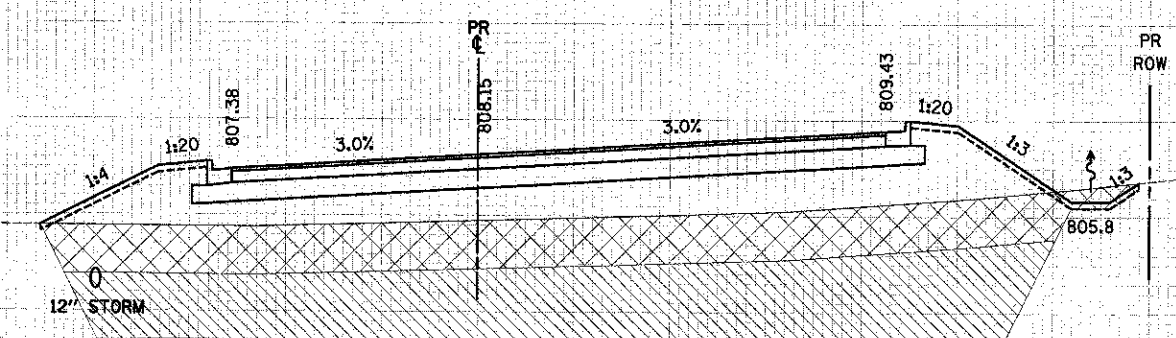
815 STA. 438+50 815

TOPSOIL REMOVAL	391.0 SF	PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	270.8 SF	
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
EARTH EXCAVATION	0.0 SF	
EMBANKMENT	846.0 SF	

810

805

800 **438 + 50.00** 800



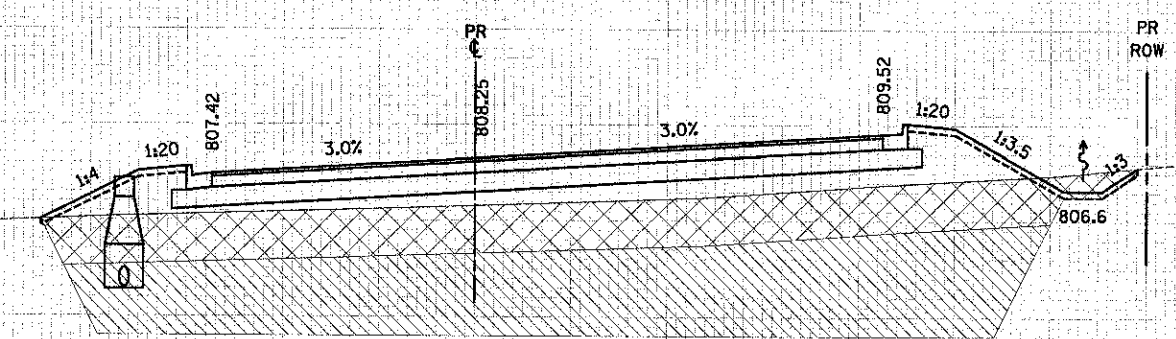
815 STA. 438+00 815

TOPSOIL REMOVAL	444.3 SF	PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	271.0 SF	
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
EARTH EXCAVATION	0.0 SF	
EMBANKMENT	799.2 SF	

810

805

800 **438 + 00.00** 800



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**





SCALE: 1"=5'V/10'H SHEET NO. 5 OF 26 SHEETS STA. 438+00.00 TO STA. 439+00.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 144
CONTRACT NO. 63640			ILLINOIS FED. AID PROJECT	

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SUPERVISOR: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 FINAL: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 TEMPLATE: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SUPERVISOR: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
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 TEMPLATE: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

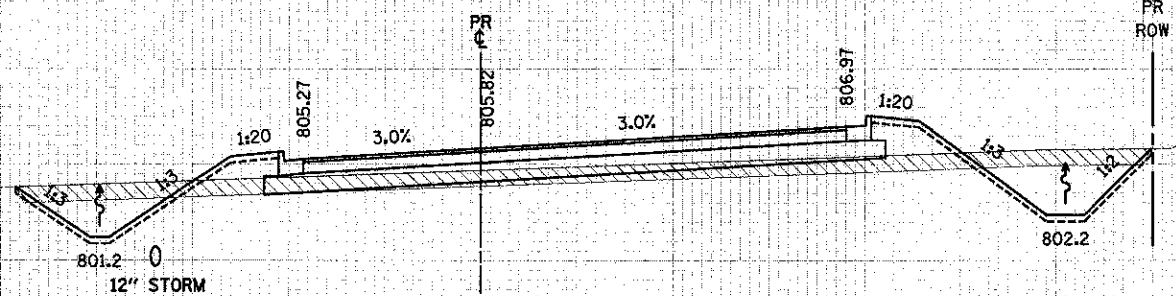
**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

815 STA. 440+50  
 810  
 805  
 800

TOPSOIL REMOVAL	98.1 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	50.5 SF
EMBANKMENT	51.1 SF

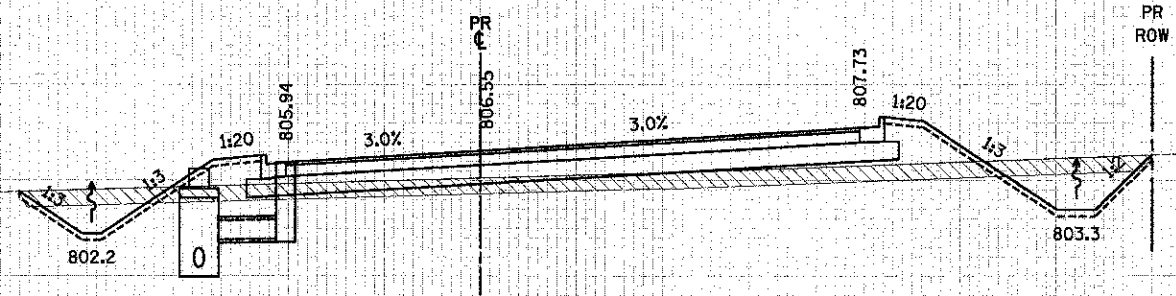
PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



815 STA. 440+00  
 810  
 805  
 800

TOPSOIL REMOVAL	97.9 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	35.2 SF
EMBANKMENT	78.0 SF

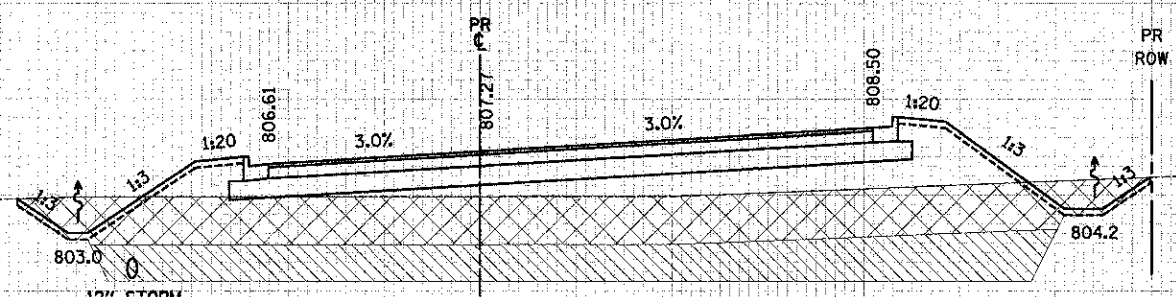
PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



815 STA. 439+50  
 810  
 805  
 800

TOPSOIL REMOVAL	203.6 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	278.1 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	537.1 SF

PROPOSED ROW EXTENDS BEYOND CROSS SECTION LIMITS



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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PLOT DATE	- 2/2/2012	DATE	- 02/06/12	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H SHEET NO. 6 OF 26 SHEETS STA. 439+50.00 TO STA. 440+50.00

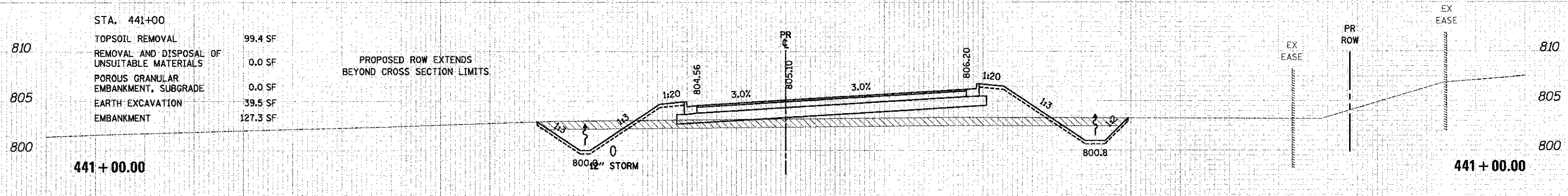
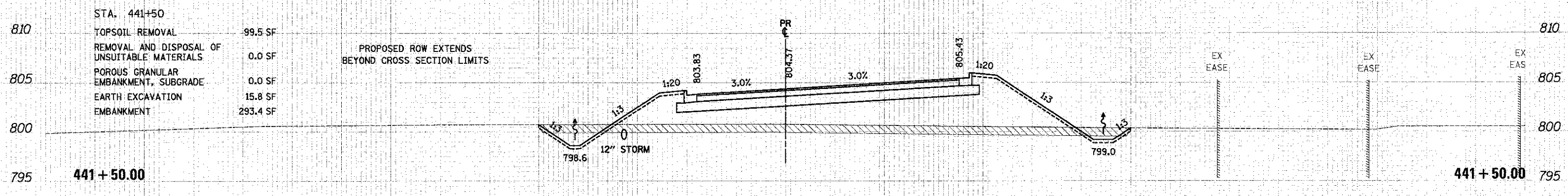
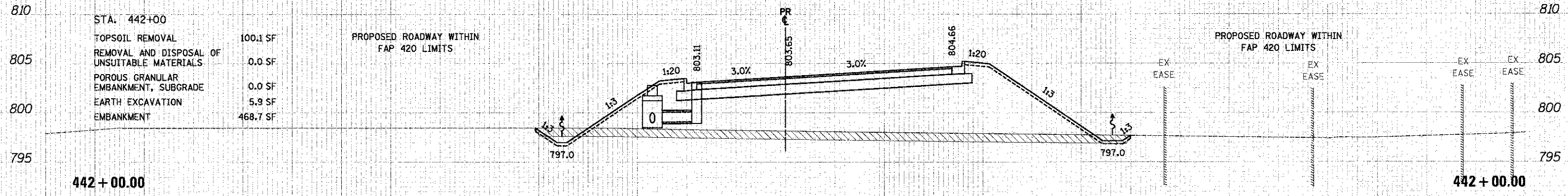
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
198	00-0045-00-PV	LAKE	195 145
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
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 DRAWN: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 NO. \_\_\_\_\_

**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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PL01 DATE = 2/2/2012	DATE - 02/06/12	REVISED -





**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

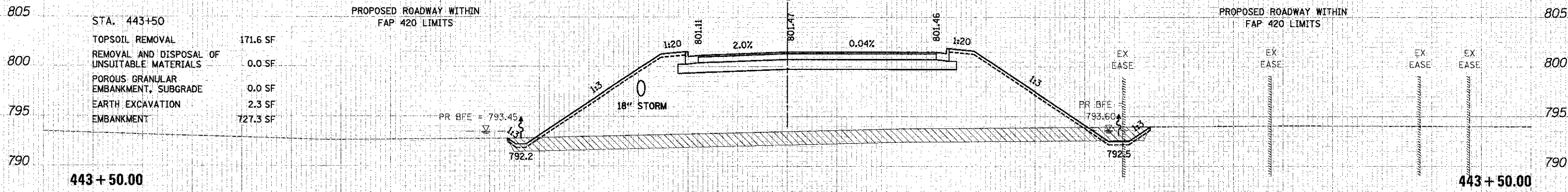
SCALE: 1"=5'V/10'H SHEET NO. 7 OF 26 SHEETS STA. 441+00.00 TO STA. 442+00.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 146
CONTRACT NO. 63640			ILLINOIS FED. AID PROJECT	

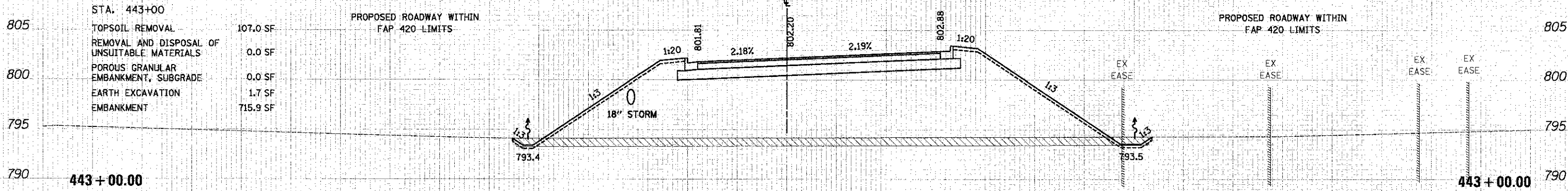
**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

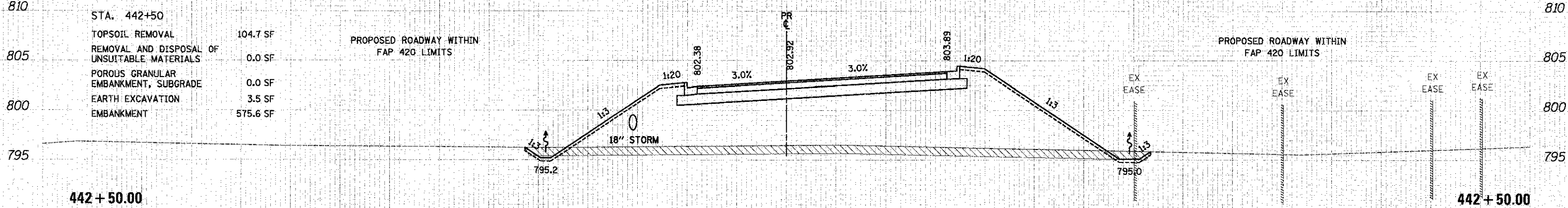
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REVISIONS	
NO. 1	
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NO. 6	
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NO. 9	
NO. 10	



STA. 443+50	TOPSOIL REMOVAL	171.6 SF
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
	EARTH EXCAVATION	2.3 SF
	EMBANKMENT	727.3 SF



STA. 443+00	TOPSOIL REMOVAL	107.0 SF
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
	EARTH EXCAVATION	1.7 SF
	EMBANKMENT	715.9 SF



STA. 442+50	TOPSOIL REMOVAL	104.7 SF
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
	EARTH EXCAVATION	3.5 SF
	EMBANKMENT	575.6 SF

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USER NAME	eds
FILE NAME	... \2189\shh\shh\shh.dgn
PLOT SCALE	1/8"=1'-0"
PLOT DATE	2/2/2012

DESIGNED	JSM
DRAWN	JSM
CHECKED	DNM
DATE	02/06/12

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REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'-0"/10' SHEET NO. 8 OF 26 SHEETS STA. 442+50.00 TO STA. 443+50.00

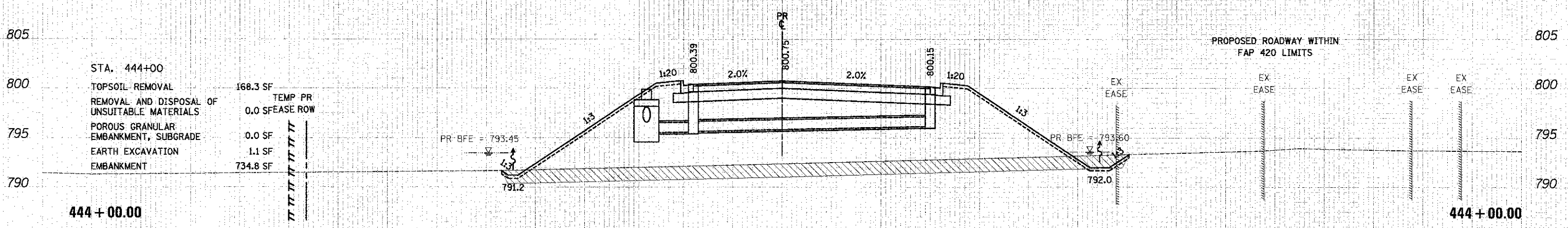
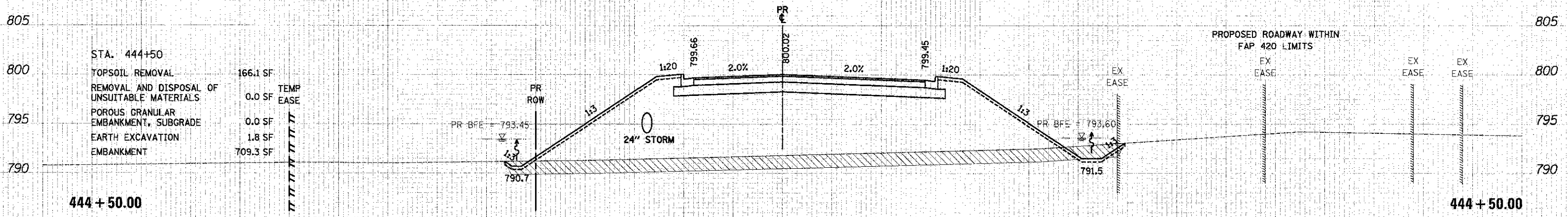
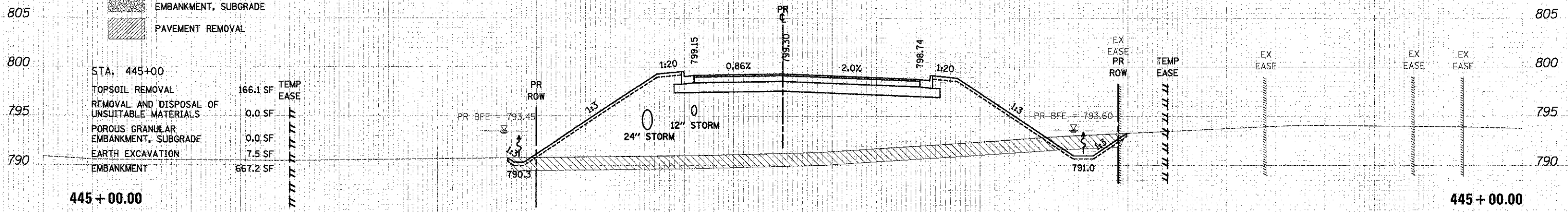
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
198	00-00045-00-PV	LAKE	195 147
CONTRACT NO.			63640

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
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 PLOT SCALE: 1/8"=1'-0"  
 PLOT DATE: 2/2/2012

**LEGEND**

- TOPSOIL REMOVAL
- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
- POROUS GRANULAR EMBANKMENT, SUBGRADE
- PAVEMENT REMOVAL



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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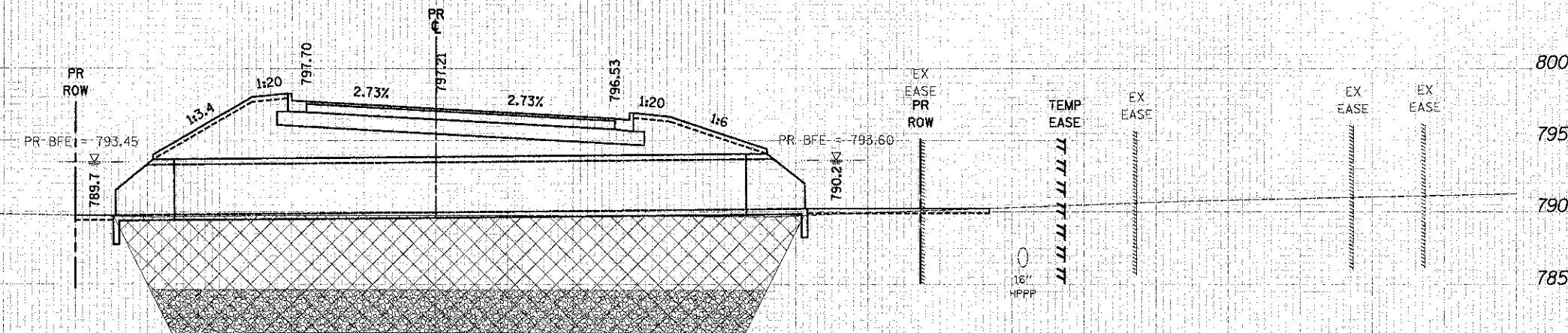
**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

STA. 446+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	710.4 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	247.8 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	993.1 SF

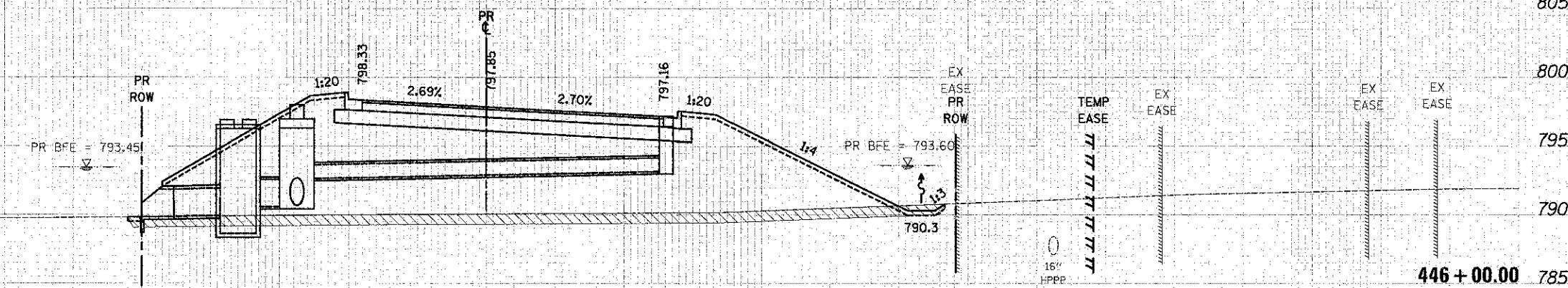
446 + 50.00



STA. 446+00

TOPSOIL REMOVAL	88.6 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	650.7 SF

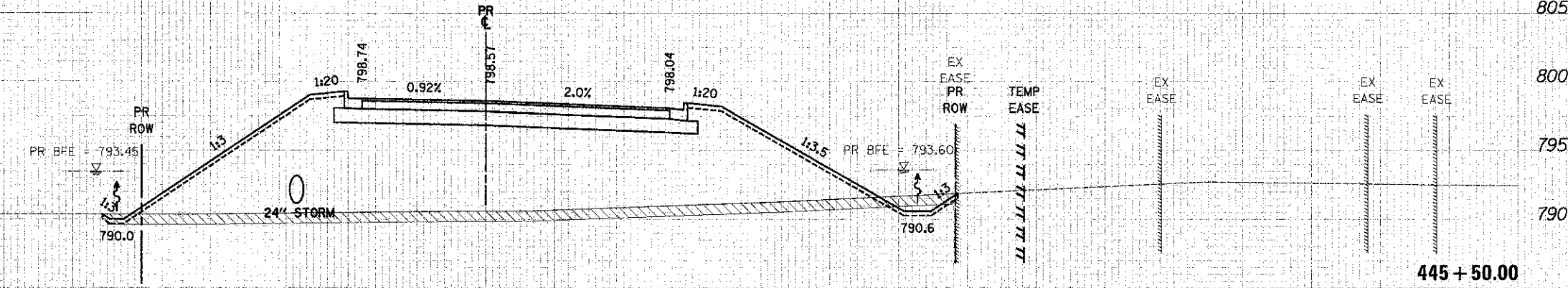
446 + 00.00



STA. 445+50

TOPSOIL REMOVAL	92.7 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	4.6 SF
EMBANKMENT	627.7 SF

445 + 50.00



USER NAME	ods
FILE NAME	...2189_sht_xasht-ctk.dgn
PLST SCALE	10.0000
PLST DATE	2/2/2012

DESIGNED	JSM
DRAWN	JSM
CHECKED	DNM
DATE	02/06/12

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - ATKINSON ROAD

SCALE: 1"=5'V/10'H SHEET NO. 10 OF 26 SHEETS STA. 445+50.00 TO STA. 446+50.00





F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
198	00-00045-00-PV	LAKE	195 149
CONTRACT NO.			63640

FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT

DATE	
BY	
REVISIONS	
SURVEY	
PLOTTED	
TEMPLATE	
NO. OF BOOKS	
AREAS CHECKED	

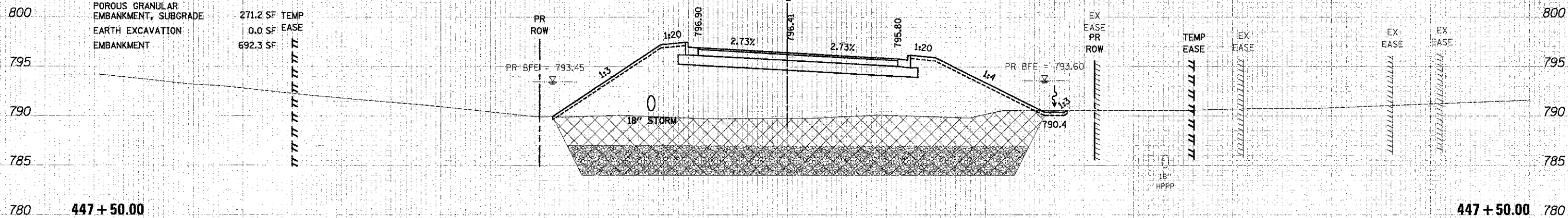
DATE	
BY	
REVISIONS	
SURVEY	
PLOTTED	
TEMPLATE	
NO. OF BOOKS	
AREAS CHECKED	

**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

STA. 447+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	560.8 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	271.2 SF TEMP
EARTH EXCAVATION	0.0 SF EASE
EMBANKMENT	692.3 SF

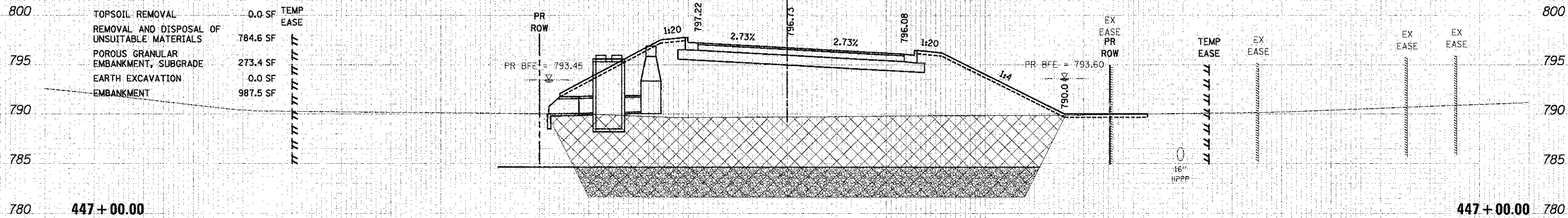


447 + 50.00

447 + 50.00

STA. 447+00

TOPSOIL REMOVAL	0.0 SF TEMP
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	784.6 SF EASE
POROUS GRANULAR EMBANKMENT, SUBGRADE	273.4 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	987.5 SF



447 + 00.00

447 + 00.00



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PLOT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - ATKINSON ROAD





SCALE: 1"=5'V/10'H | SHEET NO. 11 OF 26 SHEETS | STA. 447+00.00 TO STA. 447+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19B	00-00045-00-PV	LAKE	195	150
CONTRACT NO. 63640				

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
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 DRAWN: \_\_\_\_\_  
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 SURVEY: \_\_\_\_\_  
 TEMP. A/E: \_\_\_\_\_  
 NO. 1: BOOK \_\_\_\_\_  
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 AREAS CHECKED: \_\_\_\_\_

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 CHECKED: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
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 SURVEY: \_\_\_\_\_  
 TEMP. A/E: \_\_\_\_\_  
 NO. 1: BOOK \_\_\_\_\_  
 NO. 2: SHEET \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

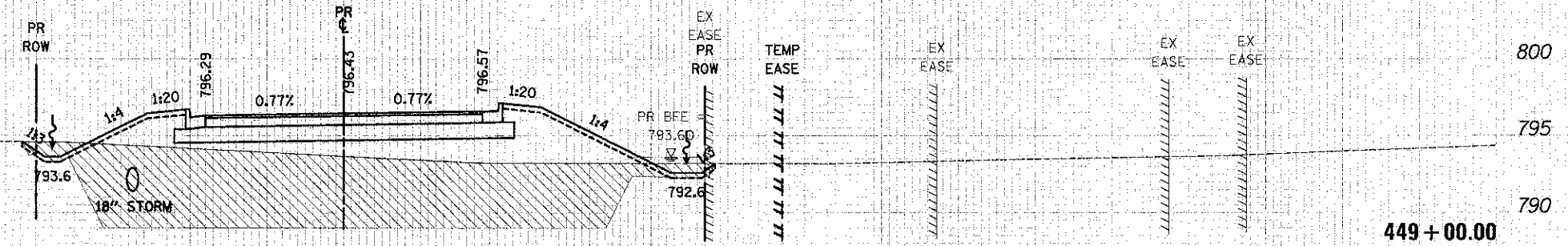
**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

STA. 449+00

TOPSOIL REMOVAL	343.4 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	423.2 SF

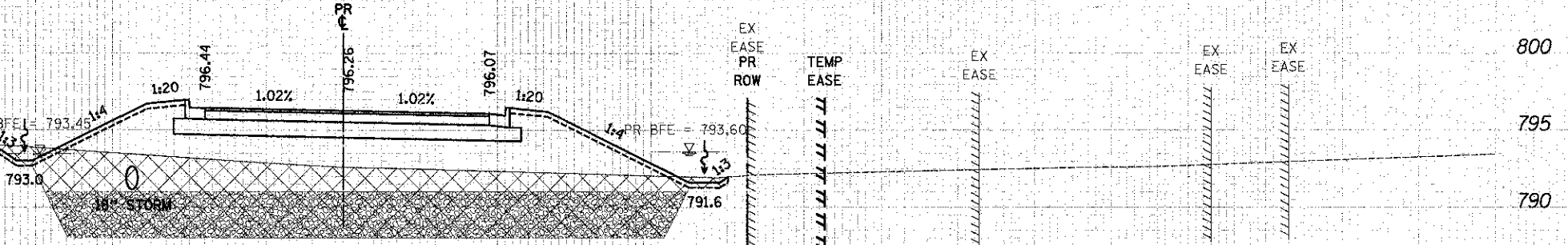
PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS



STA. 448+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	394.9 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	241.5 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	295.7 SF

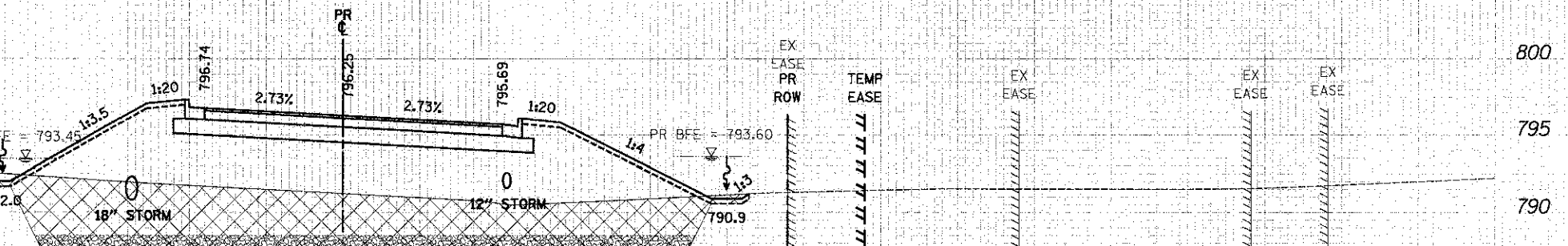
PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS



STA. 448+00

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	502.1 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	249.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	518.7 SF

PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS



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FILL NAME = ...2185-shr-wsht-atk.dgn	DRAWN = JSM	REVISED
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PLOT DATE = 2/2/2012	DATE = 02/06/12	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - ATKINSON ROAD

SCALE: 1"=5'-0"/10'H SHEET NO. 12 OF 26 SHEETS STA. 448+00.00 TO STA. 449+00.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 151
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
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 AREAS CHECKED: \_\_\_\_\_

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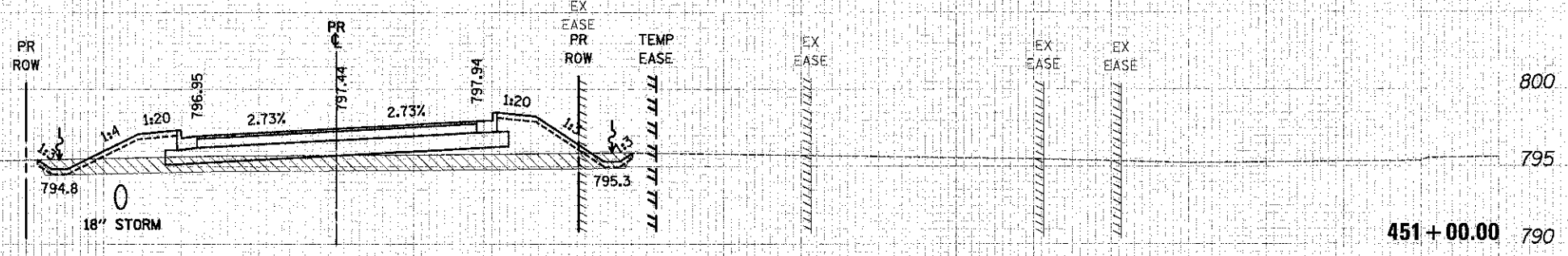
**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

STA. 451+00

800	TOPSOIL REMOVAL	75.8 SF	PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS
795	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF	
790	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
	EARTH EXCAVATION	0.0 SF	
	EMBANKMENT	90.8 SF	

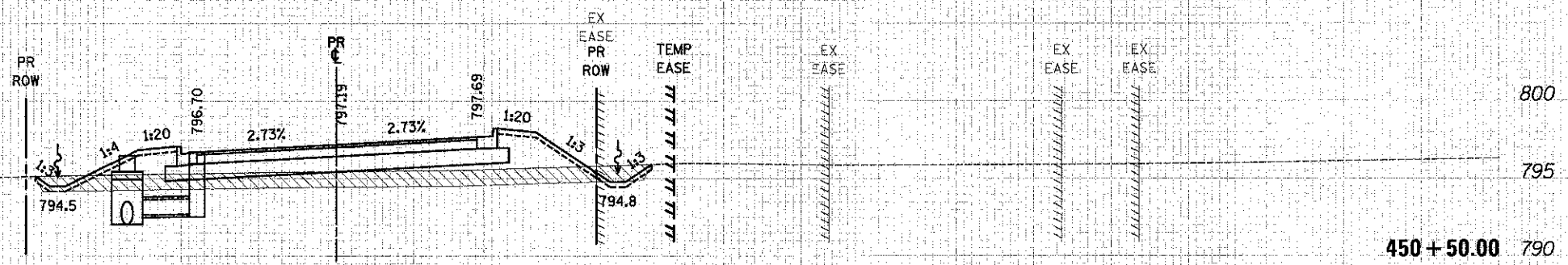
451 + 00.00



STA. 450+50

800	TOPSOIL REMOVAL	78.5 SF	PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS
795	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF	
790	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
	EARTH EXCAVATION	1.2 SF	
	EMBANKMENT	89.0 SF	

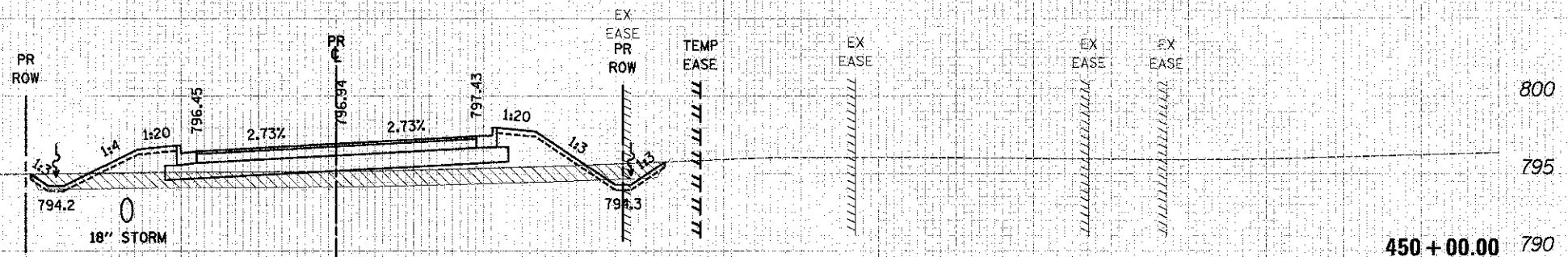
450 + 50.00



STA. 450+00

800	TOPSOIL REMOVAL	80.8 SF	PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS
795	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF	
790	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
	EARTH EXCAVATION	3.2 SF	
	EMBANKMENT	87.8 SF	

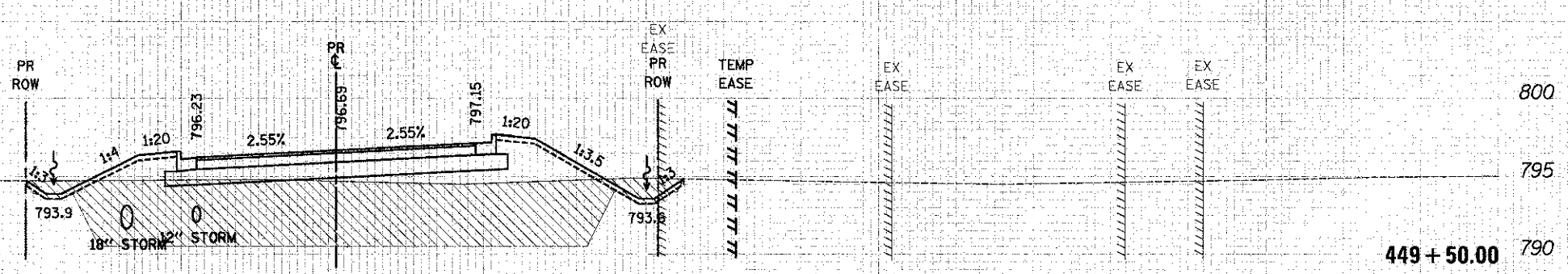
450 + 00.00



STA. 449+50

800	TOPSOIL REMOVAL	298.5 SF	PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS
795	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF	
790	POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF	
	EARTH EXCAVATION	0.0 SF	
	EMBANKMENT	320.0 SF	

449 + 50.00



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 PLOT DATE: 2/2/2012

DESIGNED: JSM  
 DRAWN: JSM  
 CHECKED: DNM  
 DATE: 02/06/12

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H | SHEET NO. 13 OF 26 SHEETS | STA. 449+50.00 TO STA. 451+00.00

F.A.U. RTE. 198	SECTION 00-0045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 152
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREA CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREA CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREA CHECKED: \_\_\_\_\_

**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

**STA. 452+50**

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	399.7 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	168.6 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	266.5 SF

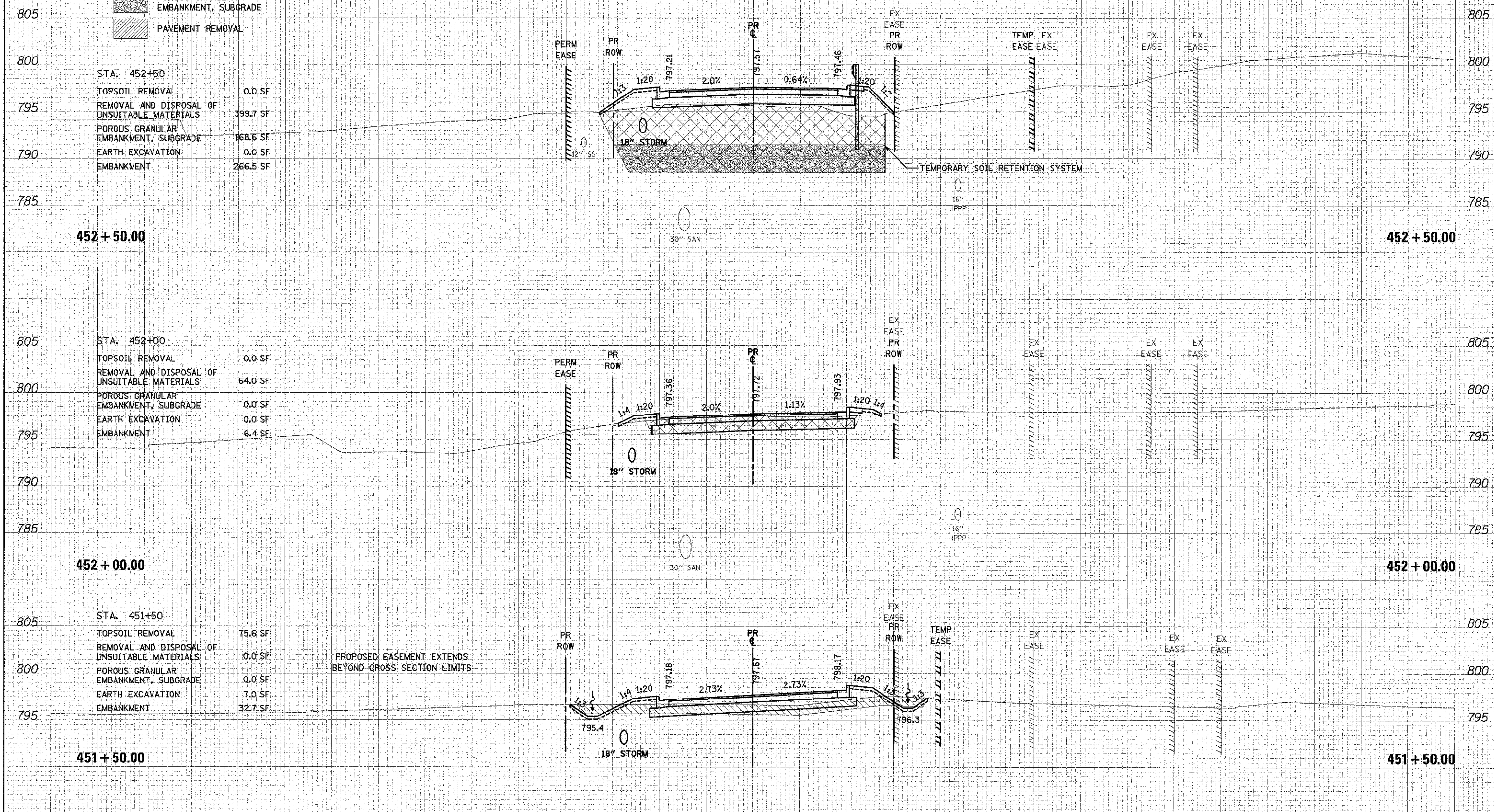
**STA. 452+00**

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	64.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	6.4 SF

**STA. 451+50**

TOPSOIL REMOVAL	75.6 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	7.0 SF
EMBANKMENT	32.7 SF

PROPOSED EASEMENT EXTENDS BEYOND CROSS SECTION LIMITS



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

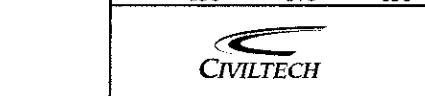
**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'-0" SHEET NO. 14 OF 26 SHEETS STA. 451+50.00 TO STA. 452+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	153
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PILOTED	
FLATTENED	
TEMPLATE	
AREAS	
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NO.	

DATE	
BY	
SURVEYED	
PILOTED	
FLATTENED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



**LEGEND**

[Hatched Pattern]	TOPSOIL REMOVAL
[Cross-hatched Pattern]	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
[Stippled Pattern]	POROUS GRANULAR EMBANKMENT, SUBGRADE
[Diagonal Hatched Pattern]	PAVEMENT REMOVAL

**STA. 454+00**

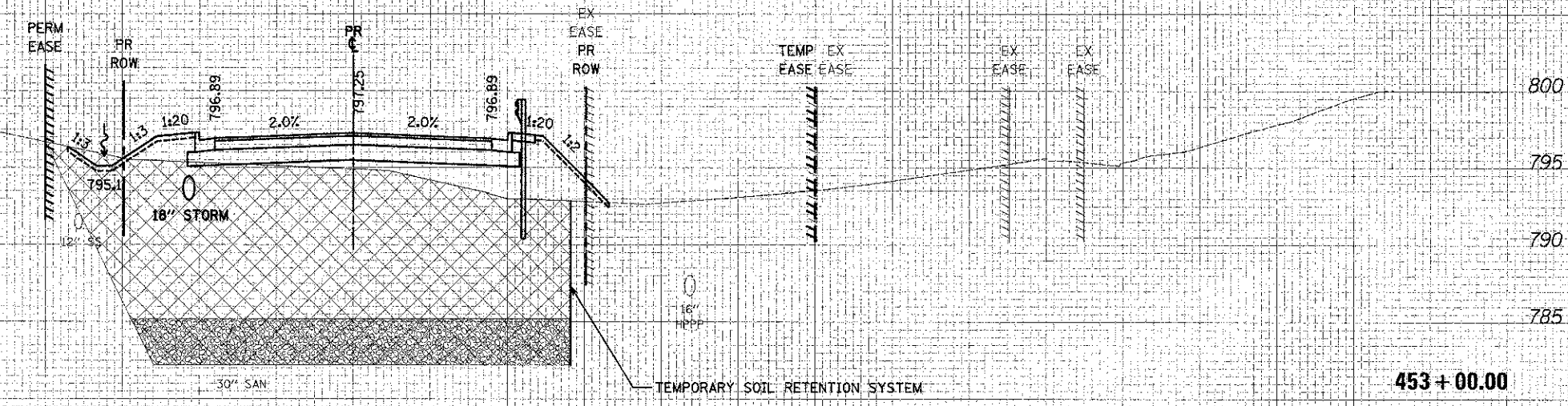
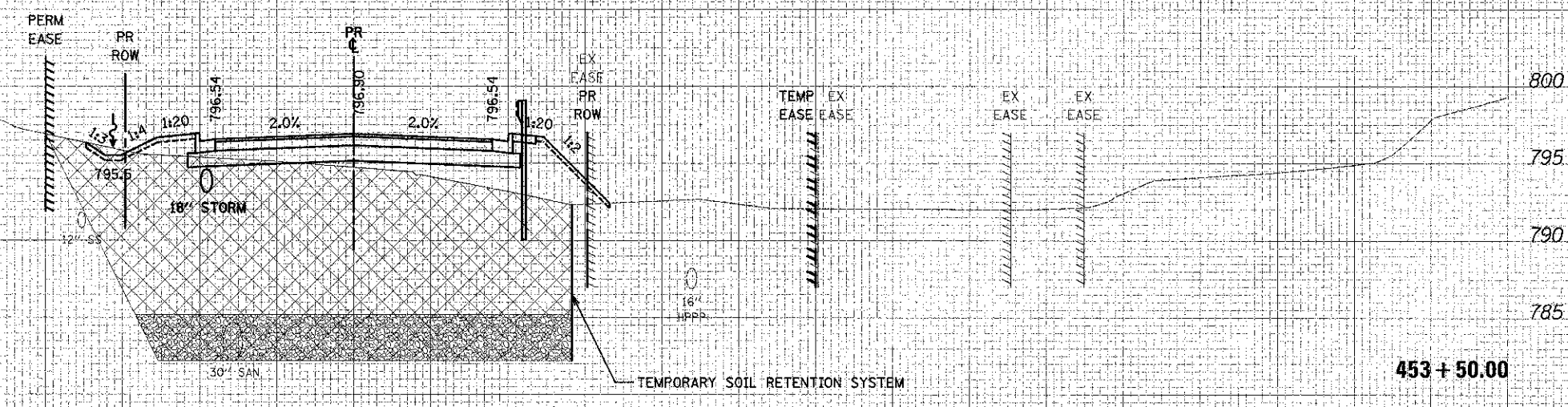
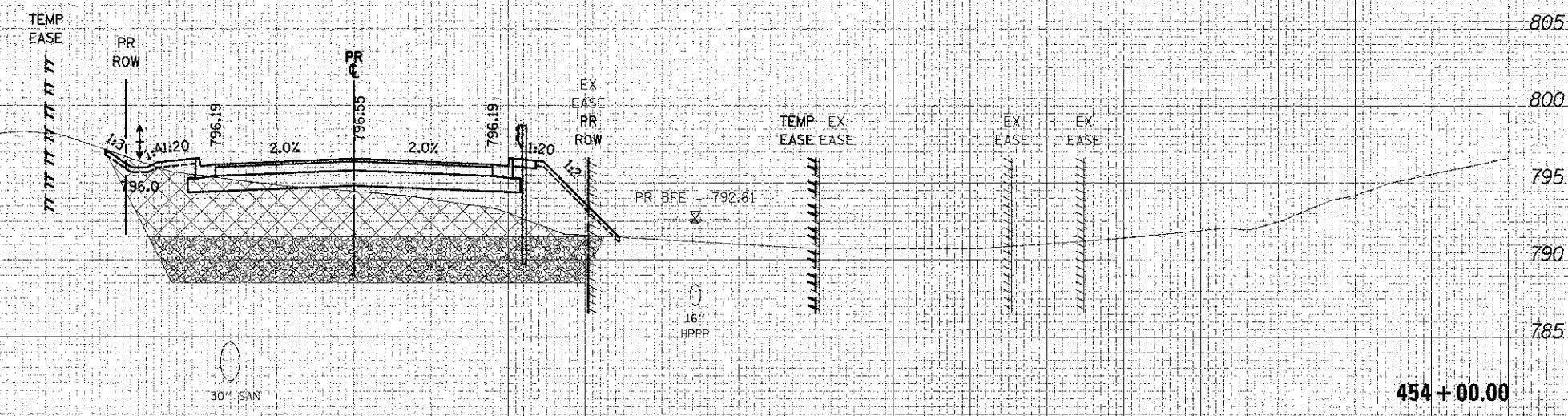
TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	332.4 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	168.7 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	201.7 SF

**STA. 453+50**

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	751.7 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	165.7 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	631.7 SF

**STA. 453+00**

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	755.5 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	167.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	647.4 SF



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PLOT DATE = 3/2/2012	DATE - 02/06/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H SHEET NO. 15 OF 26 SHEETS STA. 453+00.00 TO STA. 454+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
198	00-00045-00-PV	LAKE	185 154
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640

BY	DATE
SURVEYED	
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AREAS CHECKED	

BY	DATE
SURVEYED	
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AREAS CHECKED	

**LEGEND**

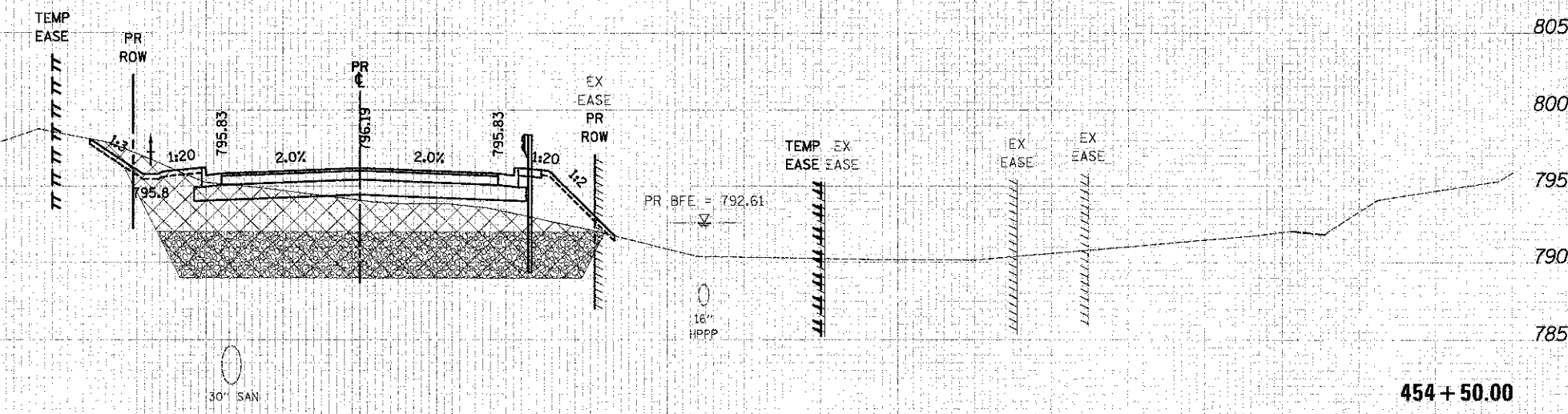
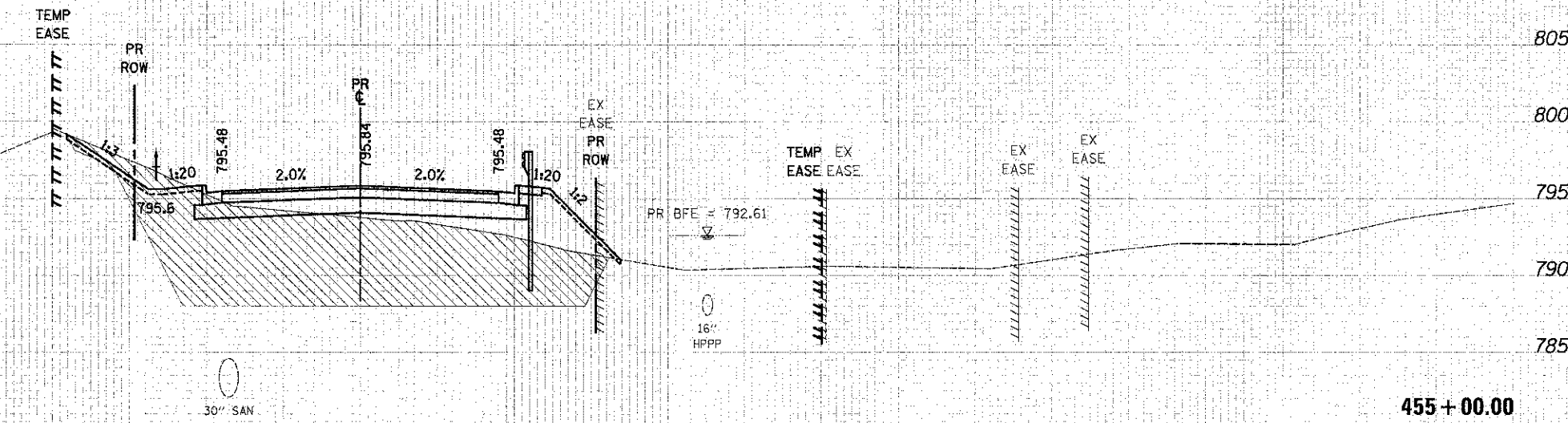
	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

805 STA. 455+00

TOPSOIL REMOVAL	340.8 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	354.0 SF

805 STA. 454+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	302.9 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	165.8 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	147.0 SF



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USPR NAME	eds
FILE NAME	... \2189-shr-ssht-atk.dgn
PLOT SCALE	1/8" = 1'-0"
PLOT DATE	2/2/2012

DESIGNED	JSM	REVISED	-
DRAWN	JSM	REVISED	-
CHECKED	DNM	REVISED	-
DATE	02/06/12	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'-0" H | SHEET NO. 16 OF 26 SHEETS | STA. 454+50.00 TO STA. 455+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
196	00-00045-00-PV	LAKE	195 155
CONTRACT NO.			63640
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY PLOTTED DATE: \_\_\_\_\_  
 SURVEYED BY: \_\_\_\_\_  
 PLOTTED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

ORIGINAL SURVEY PLOTTED DATE: \_\_\_\_\_  
 SURVEYED BY: \_\_\_\_\_  
 PLOTTED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

**LEGEND**

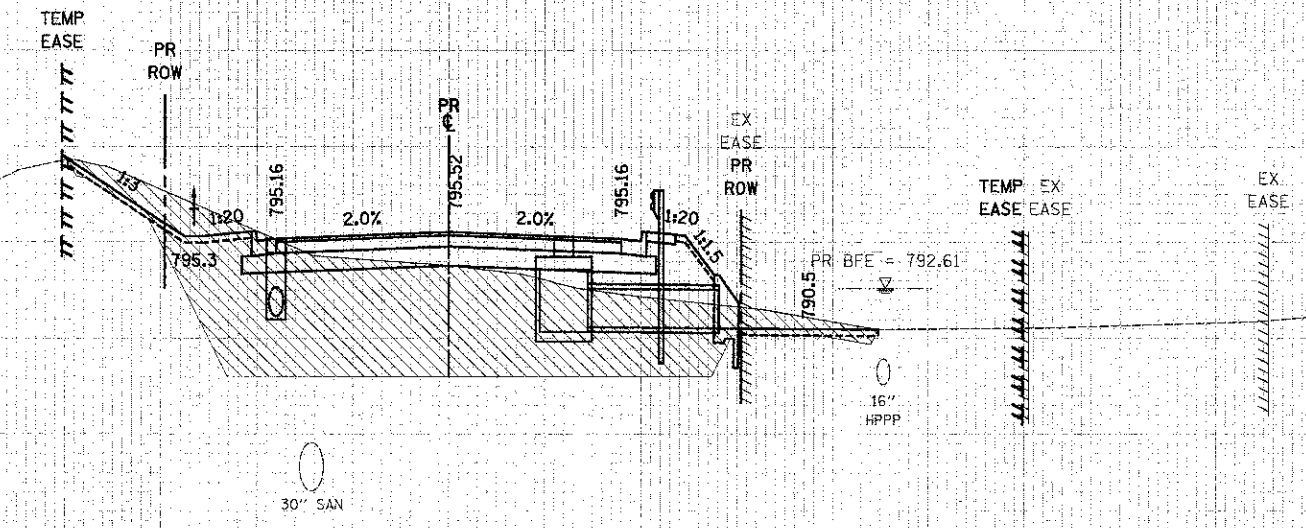
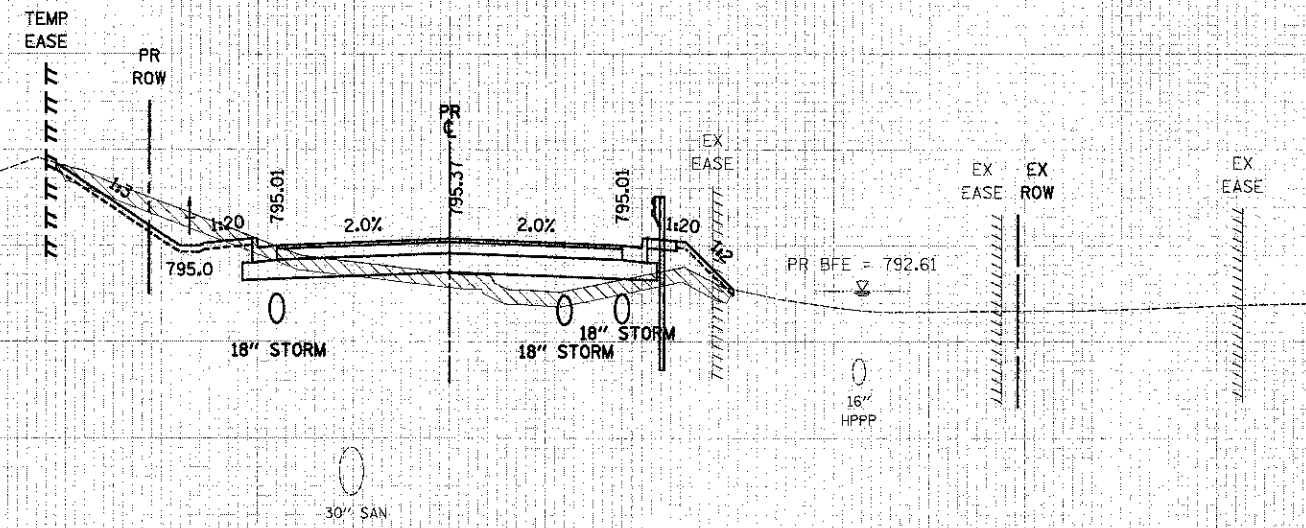
	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

**STA. 456+00**

TOPSOIL REMOVAL	54.8 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	18.5 SF
EMBANKMENT	41.1 SF

**STA. 455+50**

TOPSOIL REMOVAL	352.4 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	325.3 SF



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME: ods  
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 PLOT SCALE: 1/8"=1'-0"  
 PLOT DATE: 2/2/2012

DESIGNED: JSM  
 DRAWN: JSM  
 CHECKED: DNM  
 DATE: 02/06/12

REVISIONS:  
 REVISION NO. 1  
 REVISION DESCRIPTION  
 DATE

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'-0"/10'-0"  
 SHEET NO. 17 OF 26 SHEETS  
 STA. 455+50.00 TO STA. 456+00.00

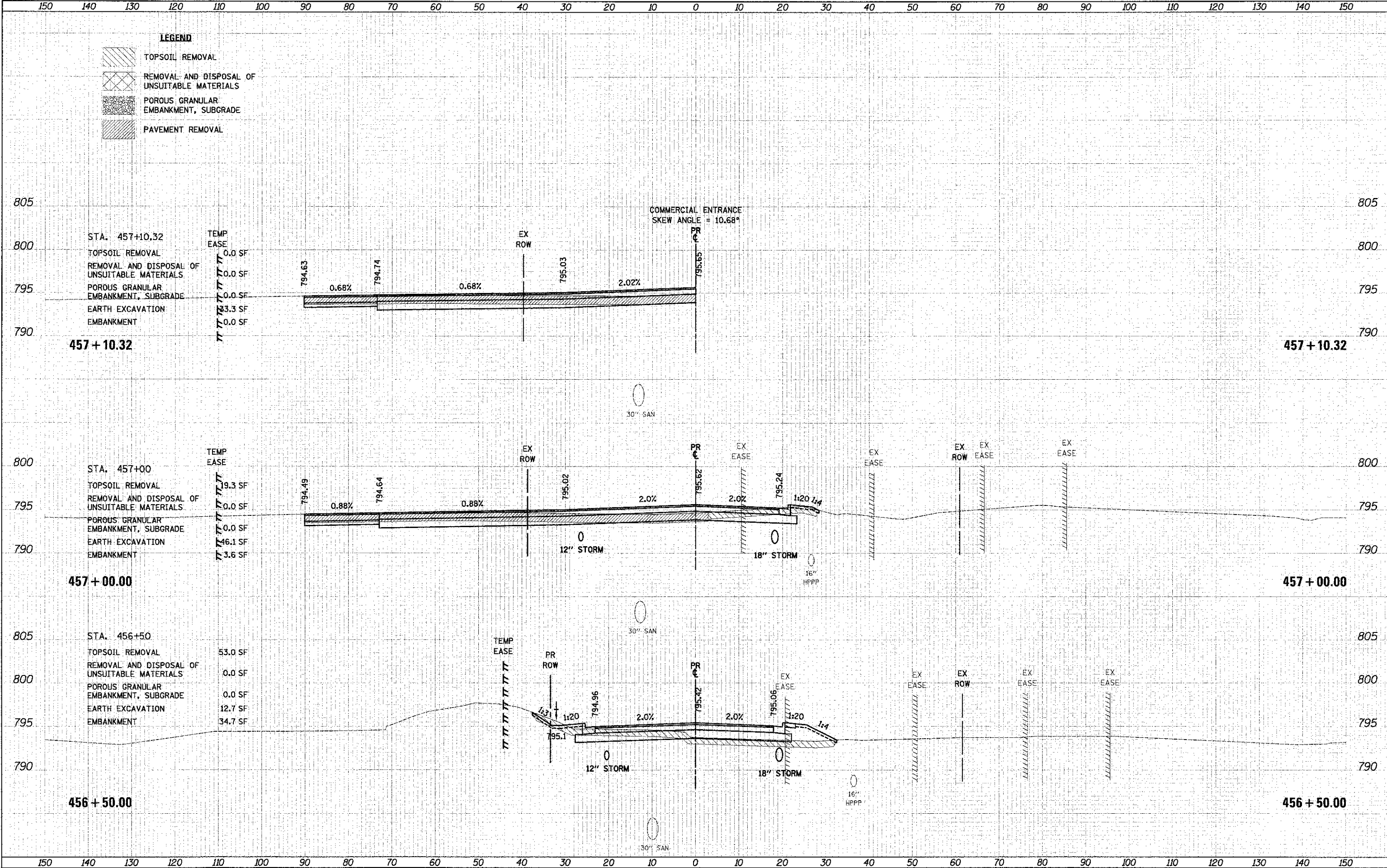
F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS NO. 195	SHEET NO. 156
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	







DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

**LEGEND**

- TOPSOIL REMOVAL
- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
- POROUS GRANULAR EMBANKMENT, SUBGRADE
- PAVEMENT REMOVAL



**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

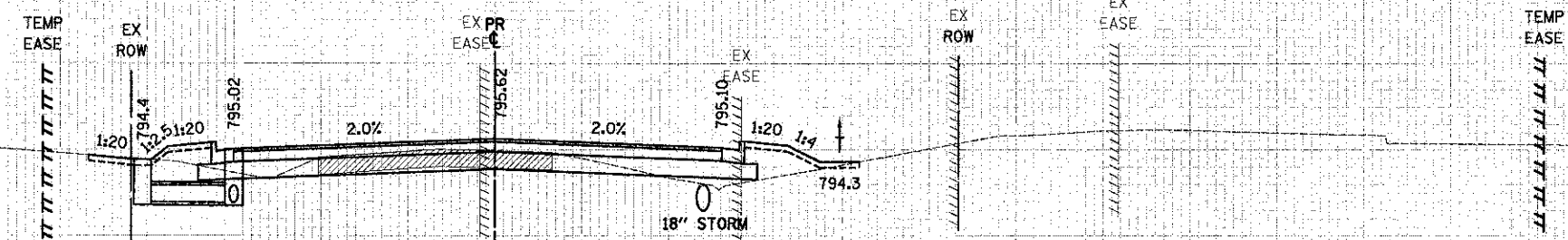
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BY	
FINAL SURVEY	
NO. 1 BOOK	
NO. 2 BOOK	
AREAS CHECKED	

DATE	
BY	
DESIGN SURVEY	
NO. 1 BOOK	
NO. 2 BOOK	
AREAS CHECKED	

STA. 458+00

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	16.5 SF
EMBANKMENT	17.0 SF

800  
795  
790



800  
795  
790

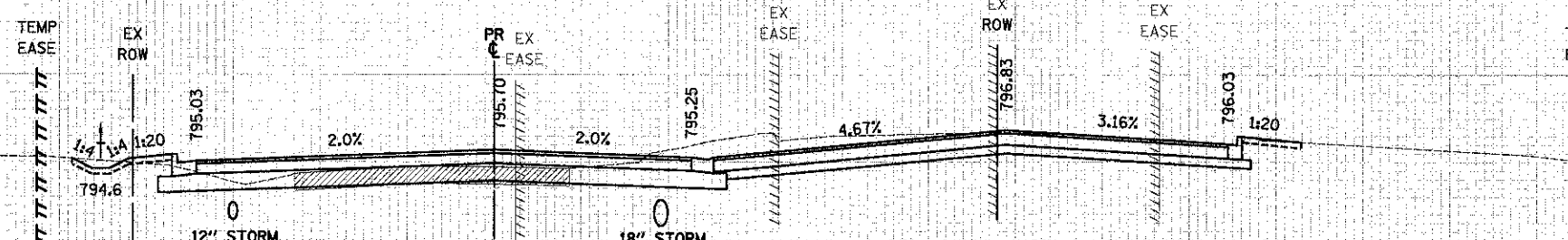
458 + 00.00

458 + 00.00

STA. 457+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	144.6 SF
EMBANKMENT	0.6 SF

800  
795  
790



800  
795  
790

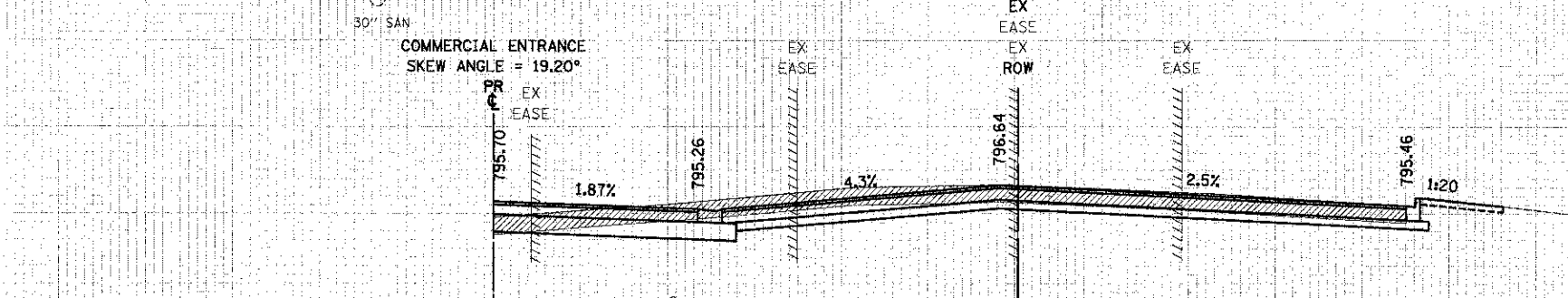
457 + 50.00

457 + 50.00

STA. 457+36.40

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	65.6 SF
EMBANKMENT	0.0 SF

805  
800  
795  
790



805  
800  
795  
790

457 + 36.40

457 + 36.40



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PLT SCALE	12.0000' / 1" =	CHECKED	DNM	REVISED	
PLT DATE	2/2/2012	DATE	02/06/12	REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'-V/10'H SHEET NO. 19 OF 26 SHEETS STA. 457+36.40 TO STA. 458+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
198	00-00045-00-PV	LAKE	195 / 158
CONTRACT NO.			63640

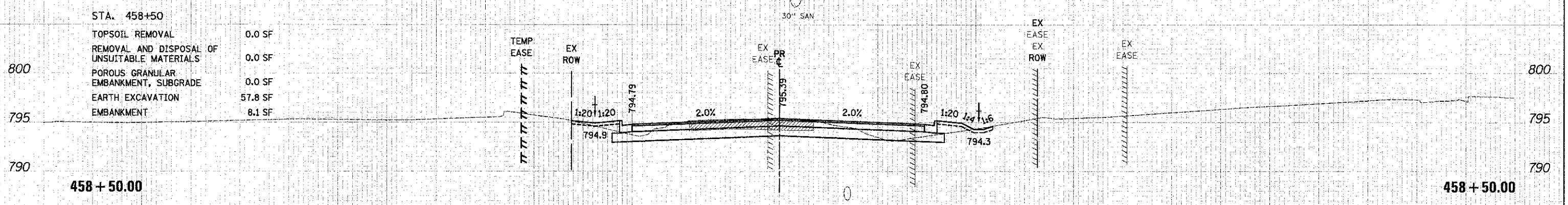
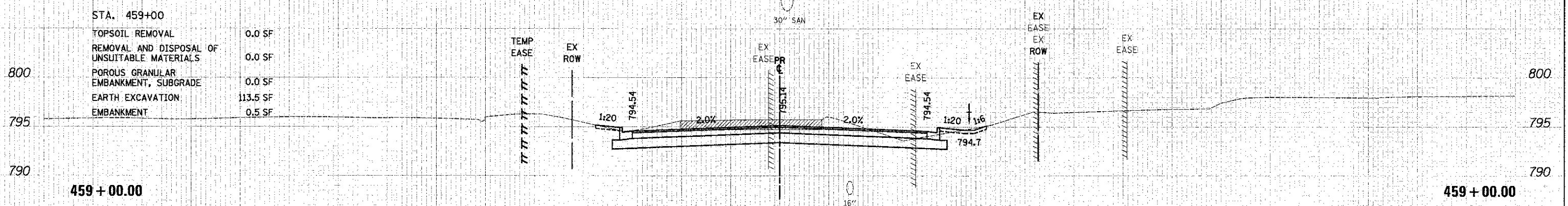
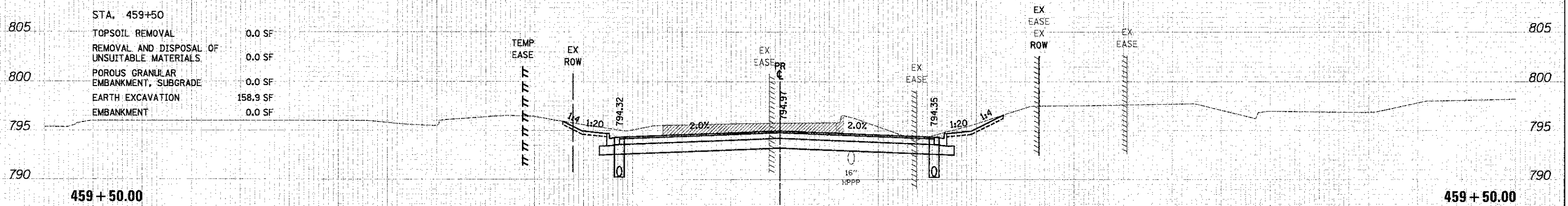
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

**LEGEND**

	TOPSOIL REMOVAL
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

DATE	
BY	
FORM	
SURVEY	
NO. 15 BOOK	
AREAS CHECKED	

DATE	
BY	
FORM	
SURVEY	
NO. 15 BOOK	
AREAS CHECKED	



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PLT DATE = 2/2/2012	DATE - 02/06/12	REVISED -





**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H SHEET NO. 20 OF 26 SHEETS STA. 458+50.00 TO STA. 459+50.00

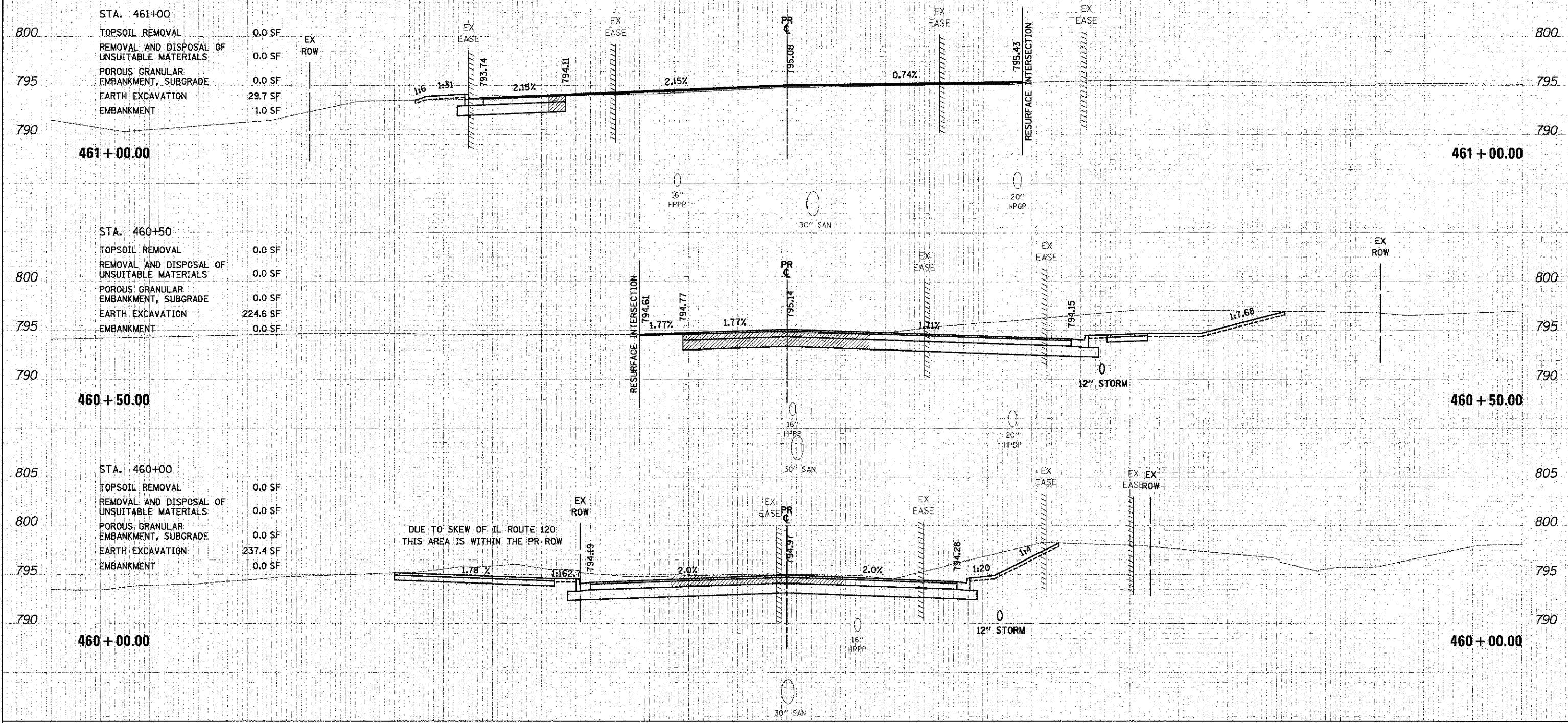
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	159
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	

**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FINL SURVEY \_\_\_\_\_  
 SURVEY \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ORIGINAL SURVEY \_\_\_\_\_  
 SURVEY \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**





**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H | SHEET NO. 21 OF 26 SHEETS | STA. 460+00.00 TO STA. 461+00.00

F.A.U. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 160
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE	
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DATE	
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CHECKED	
DATE	

STA. 462+50

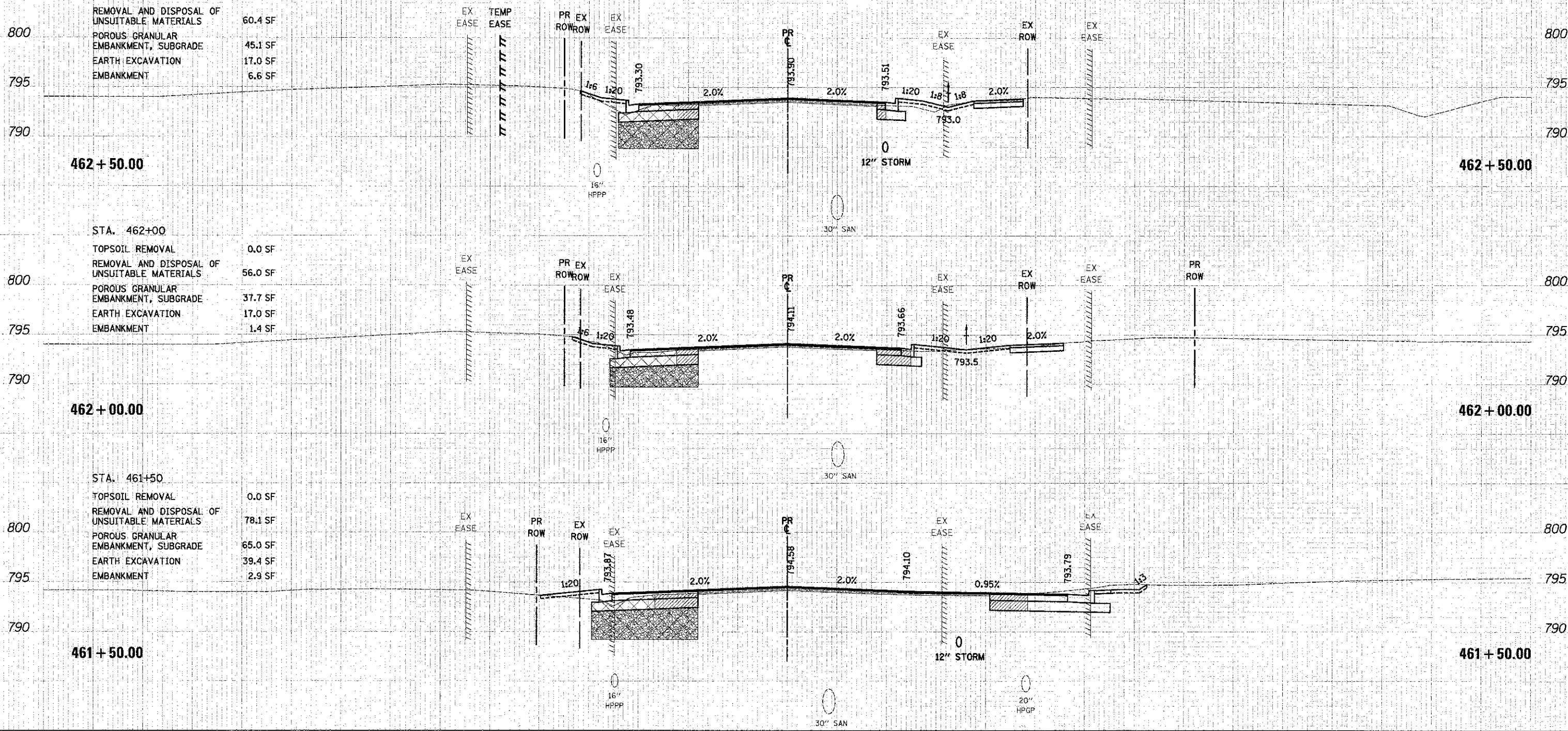
TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	60.4 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	45.1 SF
EARTH EXCAVATION	17.0 SF
EMBANKMENT	6.6 SF

STA. 462+00

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	56.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	37.7 SF
EARTH EXCAVATION	17.0 SF
EMBANKMENT	1.4 SF

STA. 461+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	78.1 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	65.0 SF
EARTH EXCAVATION	39.4 SF
EMBANKMENT	2.9 SF



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 PLOT DATE: 2/2/2012

DESIGNED: JSM  
 DRAWN: JSM  
 CHECKED: DNM  
 DATE: 02/06/12

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**





SCALE: 1"=5'-0"/10' SHEET NO. 22 OF 26 SHEETS STA. 461+50.00 TO STA. 462+50.00

F.A.U.:	SECTION	COUNTY	TOTAL SHEET NO.
198	00-00045-00-PV	LAKE	195
			161
CONTRACT NO. 63640			

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

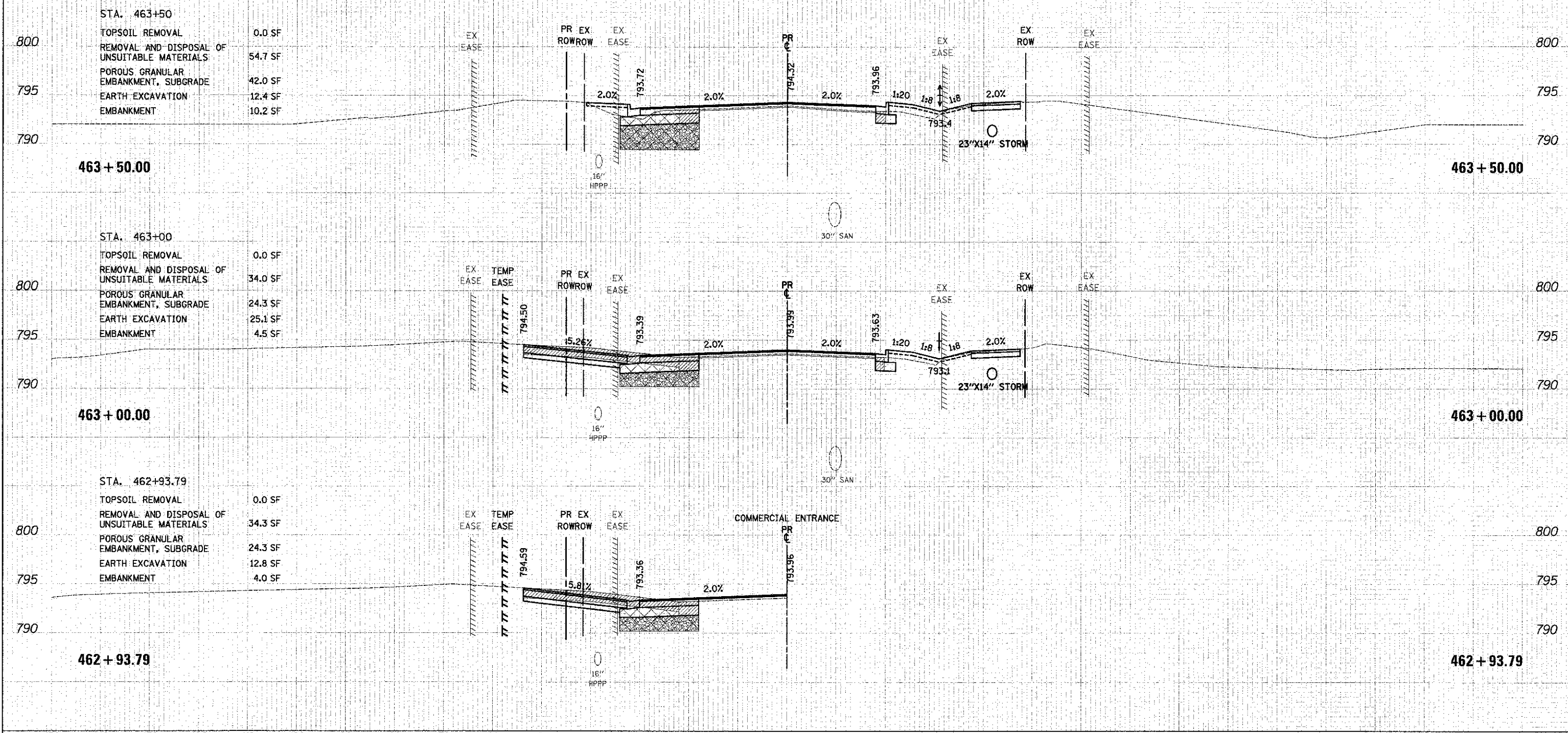
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**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE	
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**





SCALE: 1"=5'-V/10'-H SHEET NO. 23 OF 26 SHEETS STA. 462+93.79 TO STA. 463+50.00

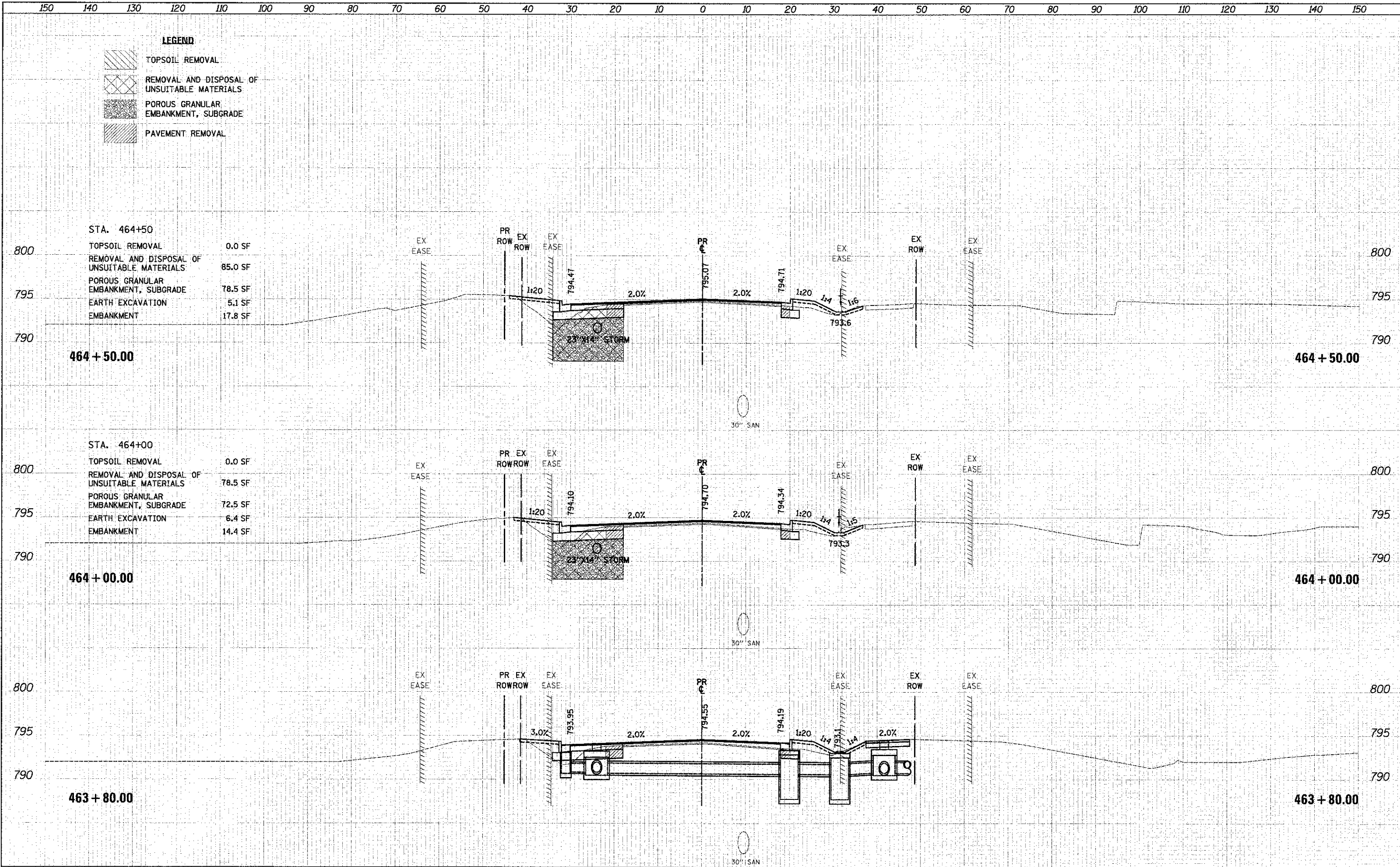
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	162
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	

BY: [ ]  
 DATE: [ ]  
 ORIGINAL SURVEY: [ ]  
 REVISIONS: [ ]  
 NOTE BOOK: [ ]  
 AREAS CHECKED: [ ]

BY: [ ]  
 DATE: [ ]  
 ORIGINAL SURVEY: [ ]  
 REVISIONS: [ ]  
 NOTE BOOK: [ ]  
 AREAS CHECKED: [ ]

**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - ATKINSON ROAD**





SCALE: 1"=5'-0"/10' SHEET NO. 24 OF 26 SHEETS STA. 463+80.00 TO STA. 464+50.00

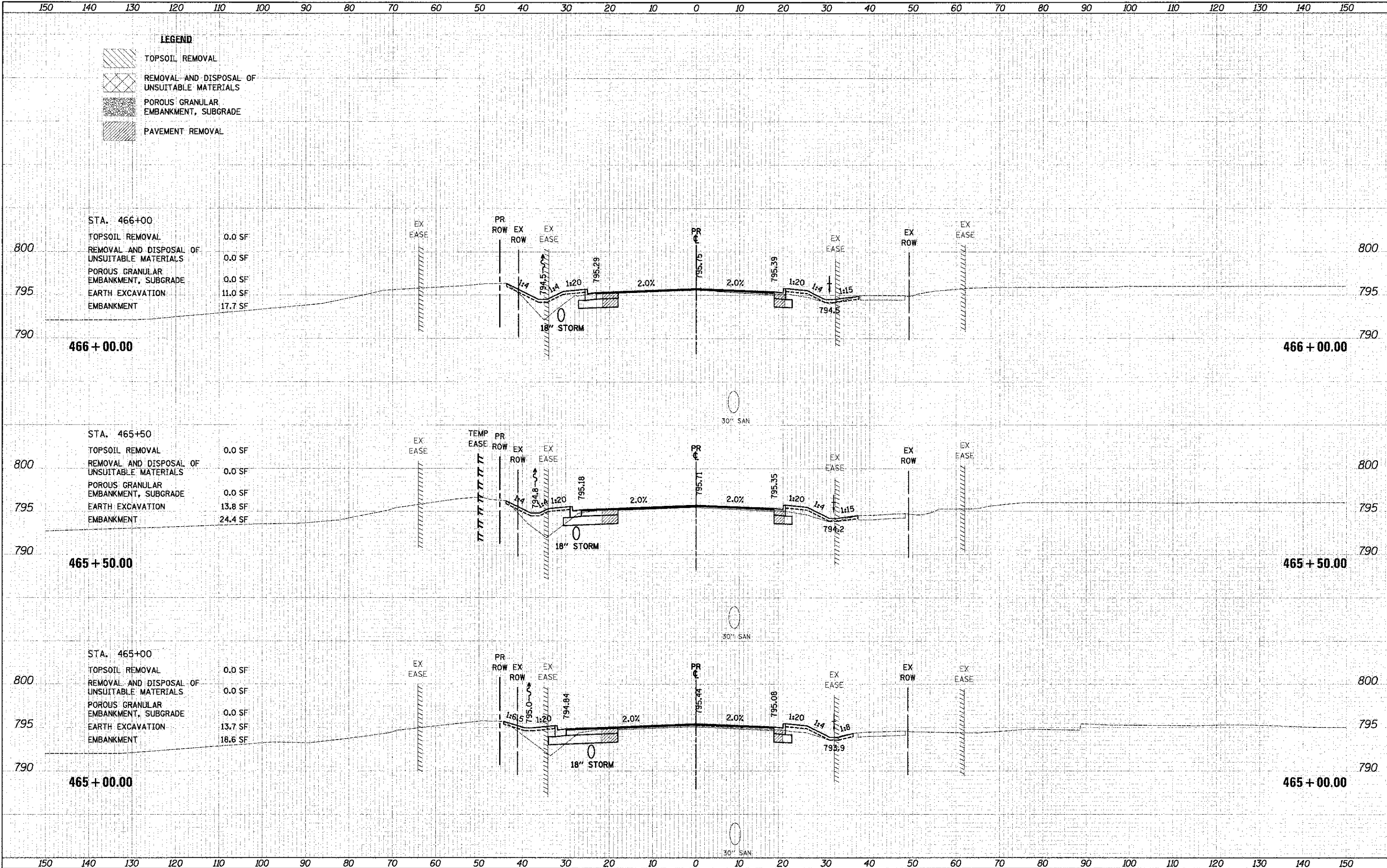
F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEET NO. 163
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 63640

DATE	
BY	
SURVEYED	
NOTED	
TEMP. AT	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
NOTED	
TEMP. AT	
AREAS CHECKED	
NO.	

**LEGEND**

-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL



STA. 466+00

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	11.0 SF
EMBANKMENT	17.7 SF

STA. 465+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	13.8 SF
EMBANKMENT	24.4 SF

STA. 465+00

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	13.7 SF
EMBANKMENT	18.6 SF

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION





CROSS SECTIONS - ATKINSON ROAD  
SCALE: 1"=5'-V/10'H | SHEET NO. 25 OF 26 SHEETS | STA. 465+00.00 TO STA. 466+00.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 164
CONTRACT NO. 63640			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

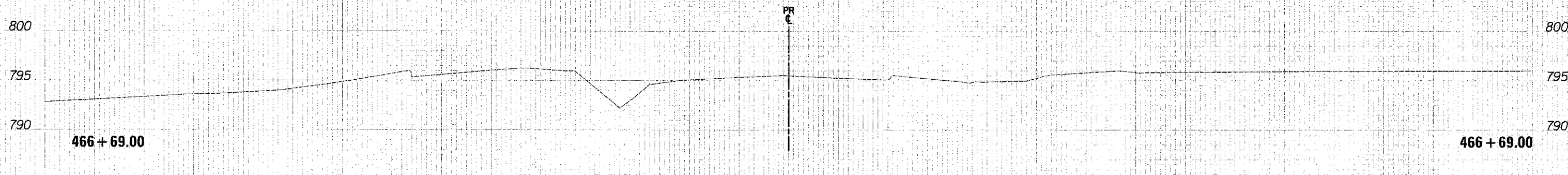


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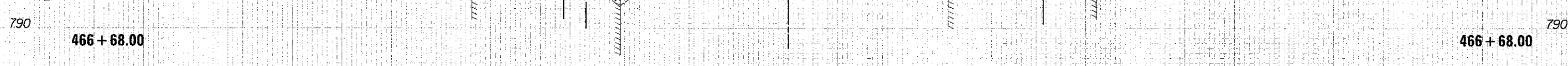
-  TOPSOIL REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE	
BY	
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CHECKED	
DATE	
PROJECT	
SCALE	
SHEET NO.	
TOTAL SHEETS	
CONTRACT NO.	



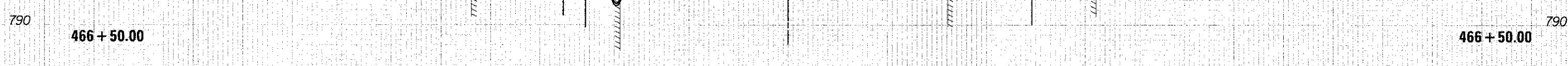
STA. 466+69

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	11.5 SF
EMBANKMENT	0.0 SF



STA. 466+50

TOPSOIL REMOVAL	0.0 SF
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	6.7 SF
EMBANKMENT	13.6 SF



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 PLOT DATE: 2/2/2012

DESIGNED: JSM  
 DRAWN: JSM  
 CHECKED: DNM  
 DATE: 02/06/12

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**




**CROSS SECTIONS - ATKINSON ROAD**

SCALE: 1"=5'V/10'H SHEET NO. 26 OF 26 SHEETS STA. 466+50.00 TO STA. 466+69.00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	165
CONTRACT NO.				63640
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 NO. 10: \_\_\_\_\_  
 NO. 11: \_\_\_\_\_  
 NO. 12: \_\_\_\_\_  
 NO. 13: \_\_\_\_\_  
 NO. 14: \_\_\_\_\_  
 NO. 15: \_\_\_\_\_  
 NO. 16: \_\_\_\_\_  
 NO. 17: \_\_\_\_\_  
 NO. 18: \_\_\_\_\_  
 NO. 19: \_\_\_\_\_  
 NO. 20: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 NO. 10: \_\_\_\_\_  
 NO. 11: \_\_\_\_\_  
 NO. 12: \_\_\_\_\_  
 NO. 13: \_\_\_\_\_  
 NO. 14: \_\_\_\_\_  
 NO. 15: \_\_\_\_\_  
 NO. 16: \_\_\_\_\_  
 NO. 17: \_\_\_\_\_  
 NO. 18: \_\_\_\_\_  
 NO. 19: \_\_\_\_\_  
 NO. 20: \_\_\_\_\_

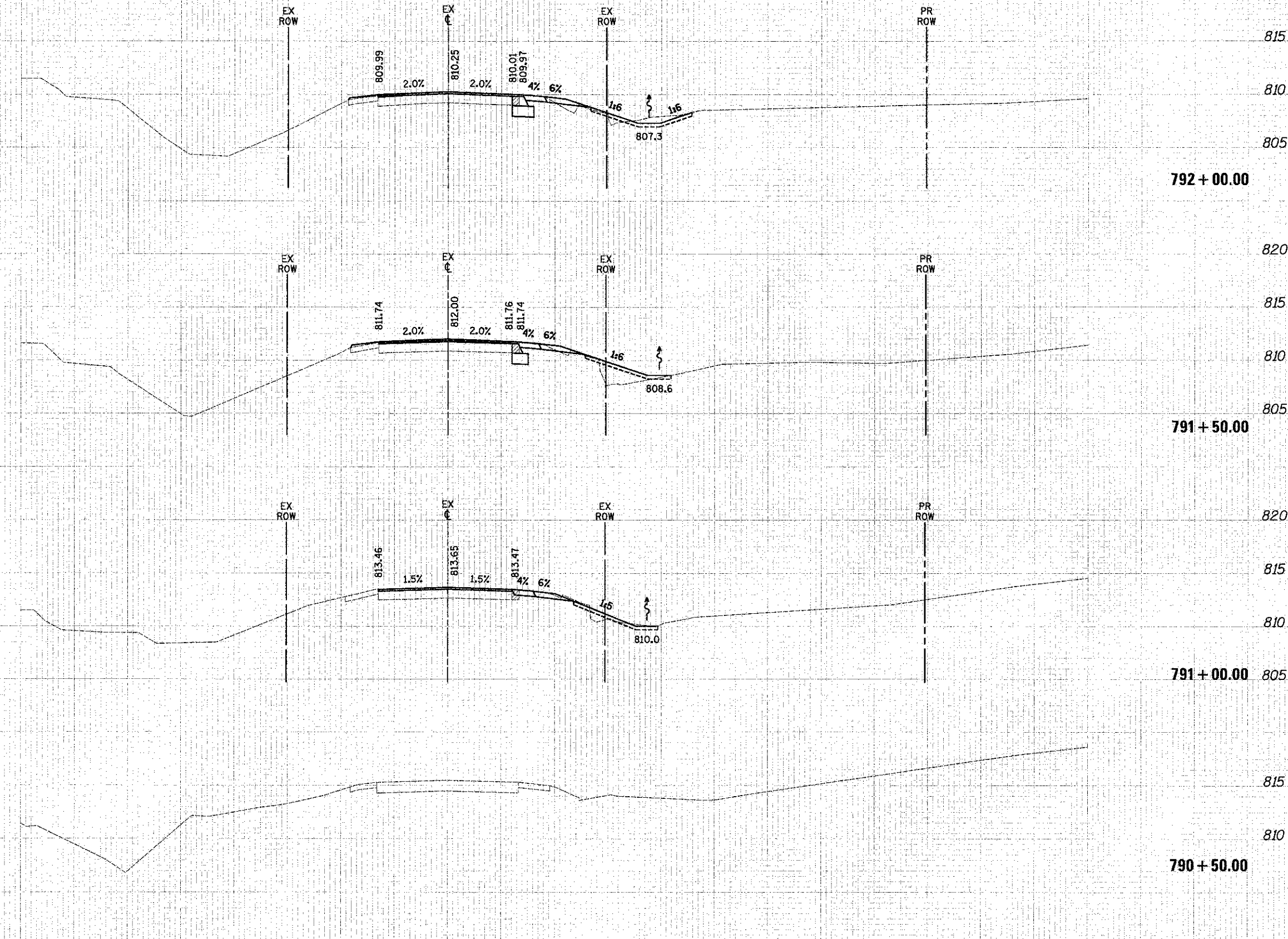
**LEGEND**  
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS  
 POROUS GRANULAR EMBANKMENT, SUBGRADE  
 PAVEMENT REMOVAL

STA. 792+00  
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS 0.0 SF  
 POROUS GRANULAR EMBANKMENT, SUBGRADE 0.0 SF  
 EARTH EXCAVATION 16.2 SF  
 EMBANKMENT 2.6 SF  
**792 + 00.00**

STA. 791+50  
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS 0.0 SF  
 POROUS GRANULAR EMBANKMENT, SUBGRADE 0.0 SF  
 EARTH EXCAVATION 7.9 SF  
 EMBANKMENT 9.7 SF  
**791 + 50.00**

STA. 791+00  
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS 0.0 SF  
 POROUS GRANULAR EMBANKMENT, SUBGRADE 0.0 SF  
 EARTH EXCAVATION 8.6 SF  
 EMBANKMENT 1.7 SF  
**791 + 00.00**

**790 + 50.00**



USER NAME: eds  
 FILE NAME: ...2189-shr-wash-137.dgn  
 PLOT SCALE: 1/8" = 1' / in.  
 PLOT DATE: 2/2/2012

DESIGNED - MJP  
 DRAWN - MJP  
 CHECKED - DNM  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**




SCALE: 1"=5'V/10'H SHEET NO. 1 OF 15 SHEETS STA. 790+50.00 TO STA. 792+00.00

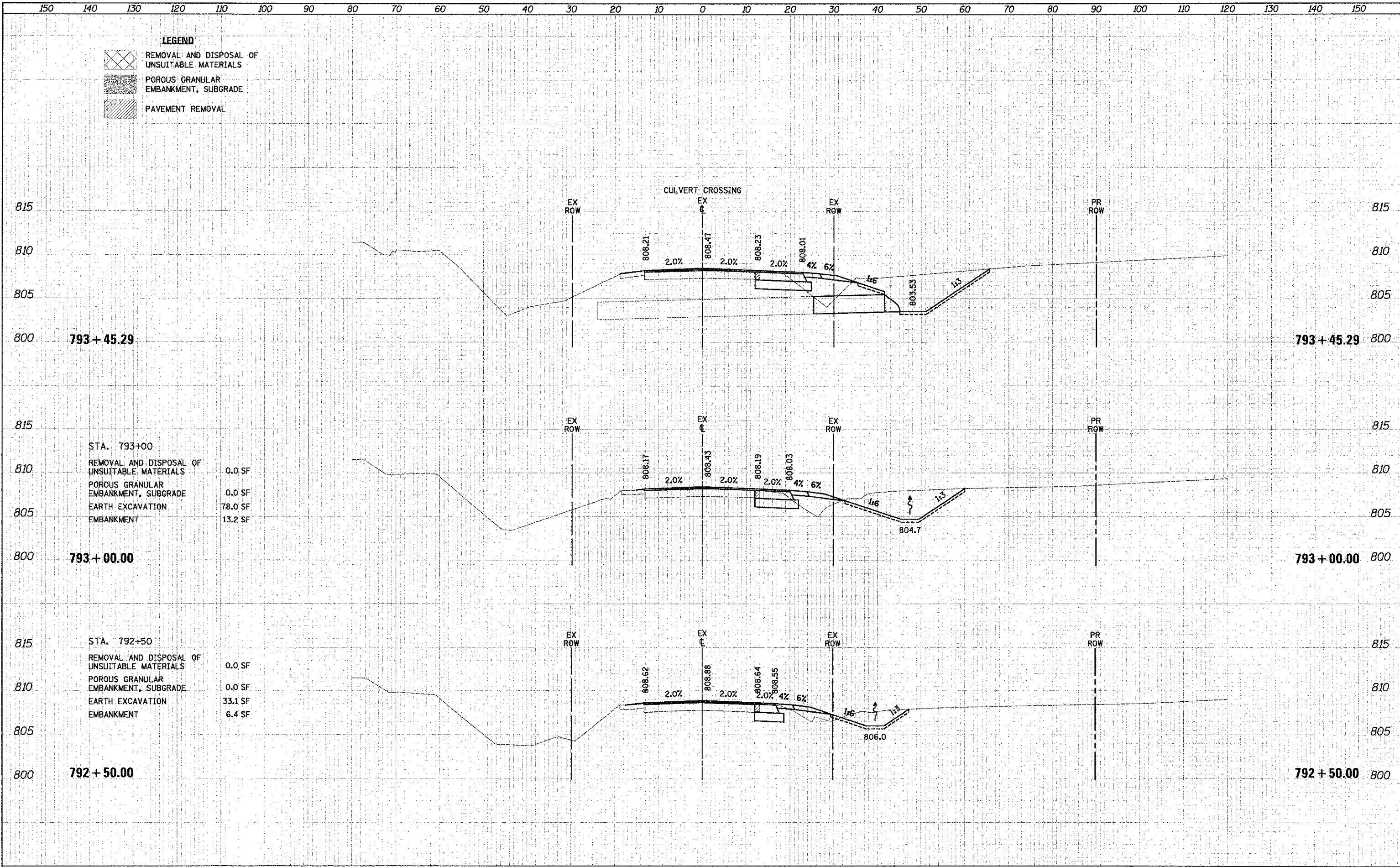
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-0045-00-PV	LAKE	195	166
CONTRACT NO.			63640	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 PLOT DATE: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 PLOT DATE: \_\_\_\_\_

**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL



793 + 45.29

793 + 45.29

793 + 00.00

793 + 00.00

792 + 50.00

792 + 50.00

STA. 793+00

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	78.0 SF
EMBANKMENT	13.2 SF

STA. 792+50

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	33.1 SF
EMBANKMENT	6.4 SF



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PLOT SCALE = 1/8"=1'-0"	CHECKED = DNM	REVISED =
PLOT DATE = 2/2/2012	DATE = 02/06/12	REVISED =




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

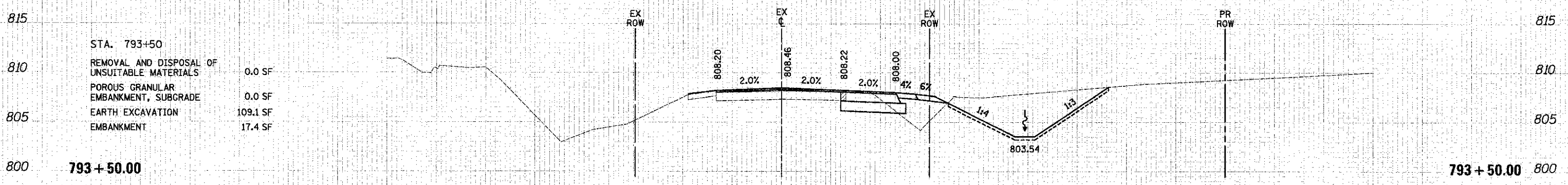
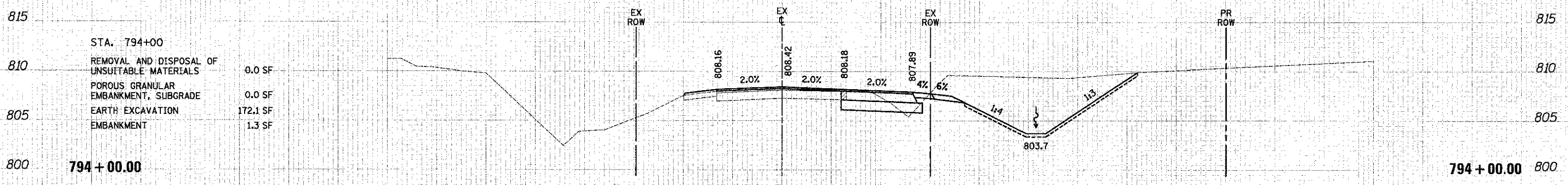
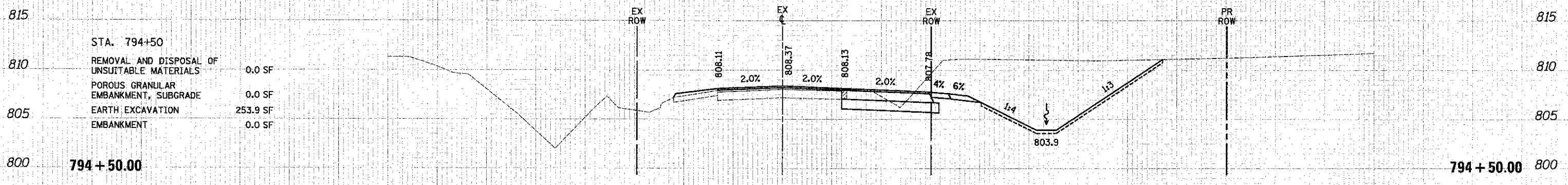
SCALE: 1"=5'-0"/10'H SHEET NO. 2 OF 15 SHEETS STA. 792+50.00 TO STA. 793+45.29

F.A.U. RITE: 198	SECTION: 00-00045-00-PV	COUNTY: LAKE	TOTAL SHEET NO.: 167
CONTRACT NO. 63640			

**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

BY	DATE
DESIGNED	
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DATE	
REVISIONS	
NO.	
DATE	
DESCRIPTION	



BY	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	
DATE	
DESCRIPTION	



USER NAME	= eds	DESIGNED	MJP	REVISED	-
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PLOT DATE	= 2/2/2012	DATE	02/06/12	REVISED	-




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

SCALE: 1"=5'-V/10'-H SHEET NO. 3 OF 15 SHEETS STA. 793+50.00 TO STA. 794+50.00

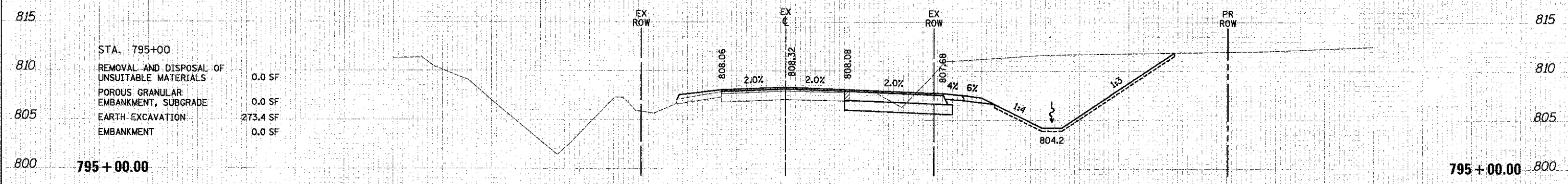
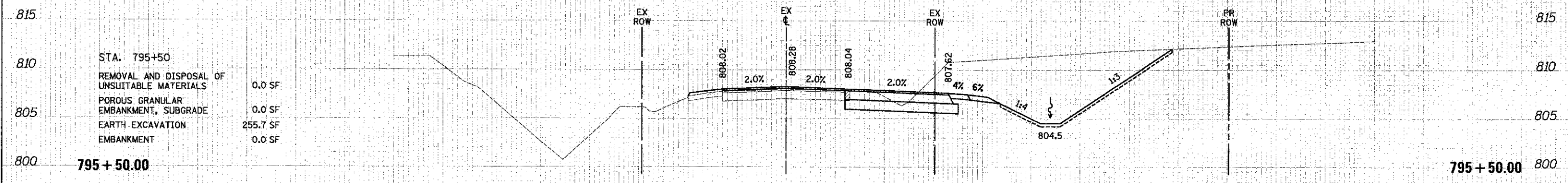
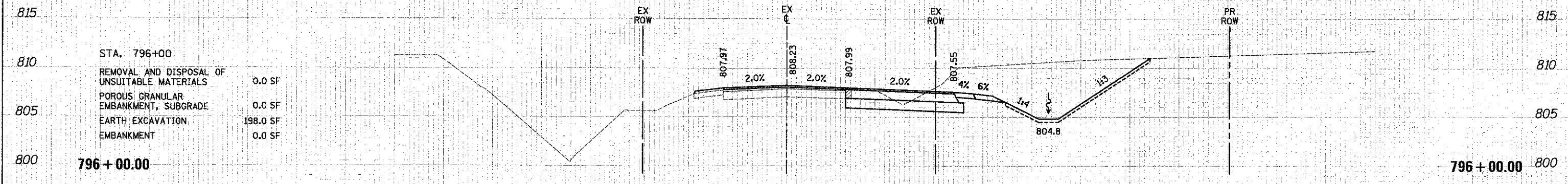
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19B	00-00045-00-PV	LAKE	195	168
CONTRACT NO.			63640	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE	
BY	
FINAL SURVEY	
NOTED BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED BOOK	
NO.	



USER NAME	uds	DESIGNED	MJP	REVISED	-
FILE NAME	... \2109-shr-ssahs-137.dgn	DRAWN	MJP	REVISED	-
PLOT SCALE	10.0000 / in	CHECKED	DNM	REVISED	-
PLOT DATE	2/2/2012	DATE	02/06/12	REVISED	-




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

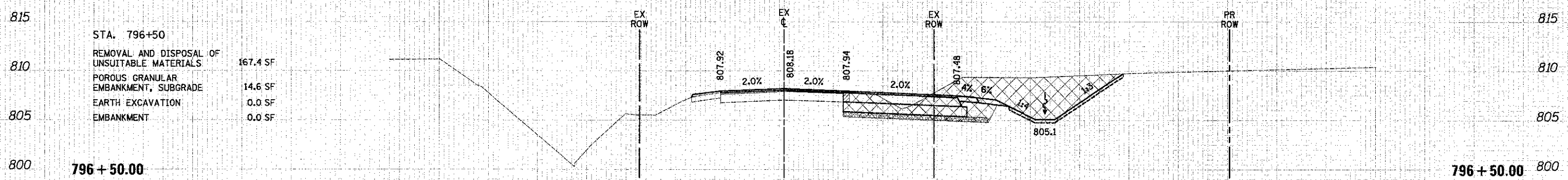
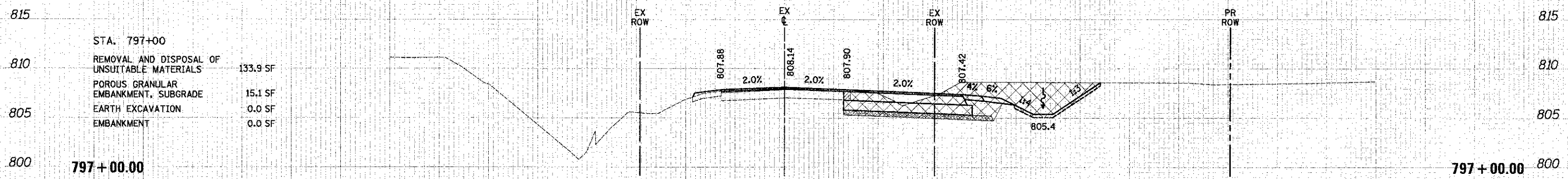
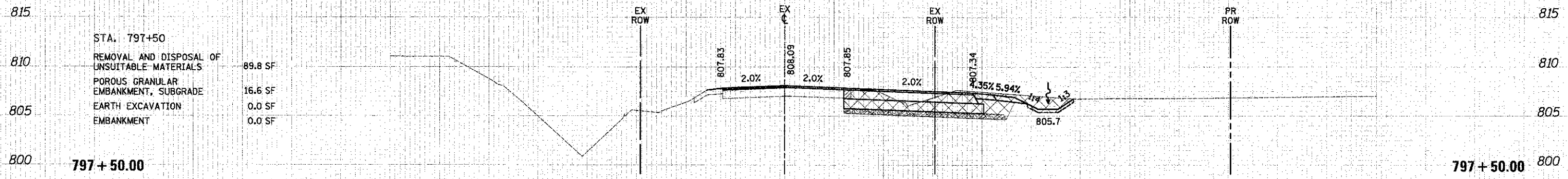
SCALE: 1"=5'V/10'H SHEET NO. 4 OF 15 SHEETS STA. 795+00.00 TO STA. 796+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET
198	00-00045-00-PV	LAKE	195 / 169
CONTRACT NO. 63640			

**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE		
BY		
REVISIONS		
NO. 1	DATE	DESCRIPTION
1		
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DATE		
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REVISIONS		
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4		
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USER NAME: eds	DESIGNED: MJP	REVISED: -
FILE NAME: ...2189-sht_xssht-137.dgn	DRAWN: MJP	REVISED: -
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PLOT DATE: 2/2/2012	DATE: 02/06/12	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

SCALE: 1"=5'-0" V/10' H | SHEET NO. 5 OF 15 SHEETS | STA. 796+50.00 TO STA. 797+50.00

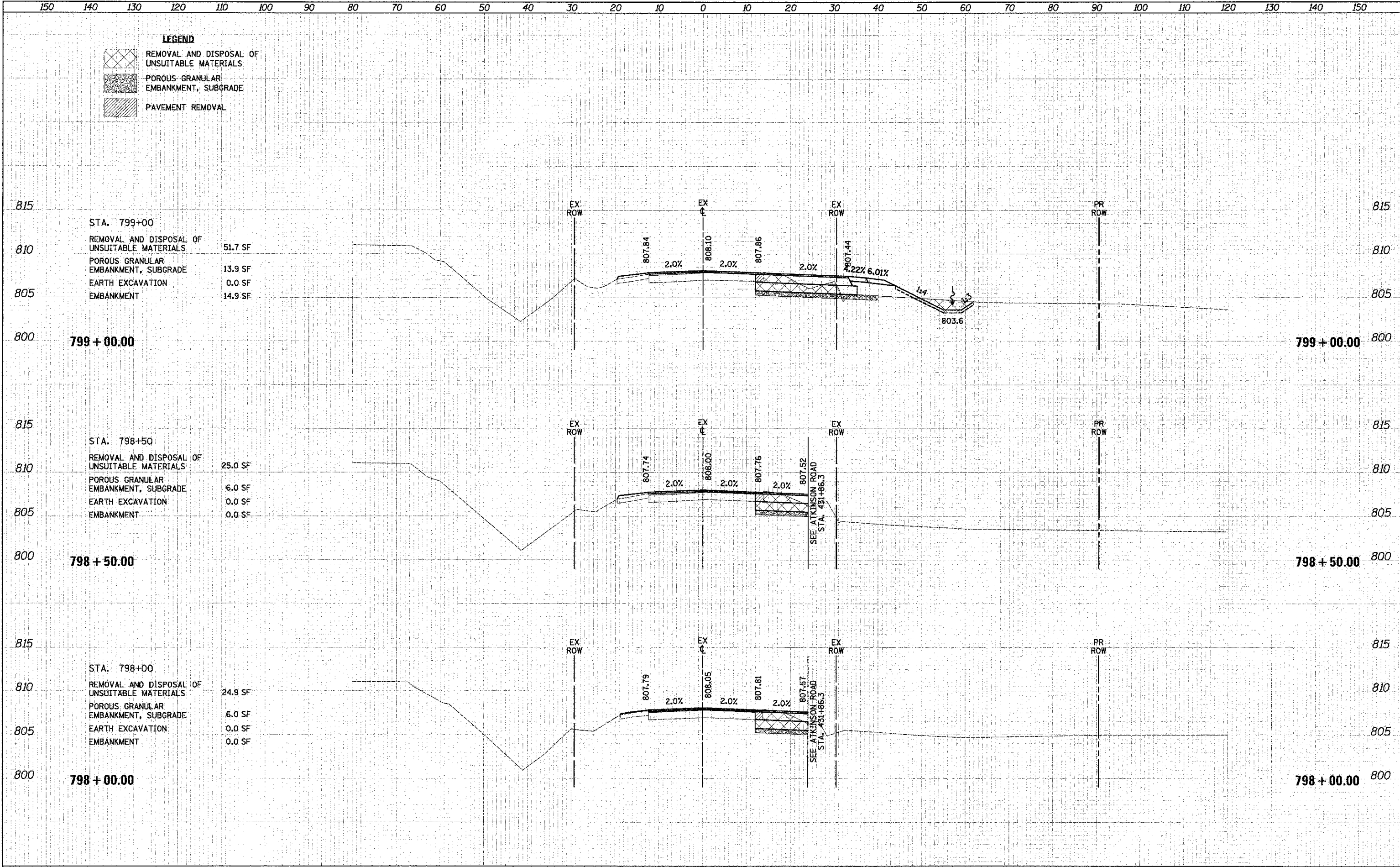
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	170
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

CIVIL SURVEY SURVEYED BY DATE  
 NOTE BOOK TEMPLATE AREAS CHECKED

ORIGINAL SURVEY SURVEYED BY DATE  
 NOTE BOOK TEMPLATE AREAS CHECKED

**LEGEND**

	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL



STA. 799+00

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	51.7 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	13.9 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	14.9 SF

STA. 798+50

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	25.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	6.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	0.0 SF

STA. 798+00

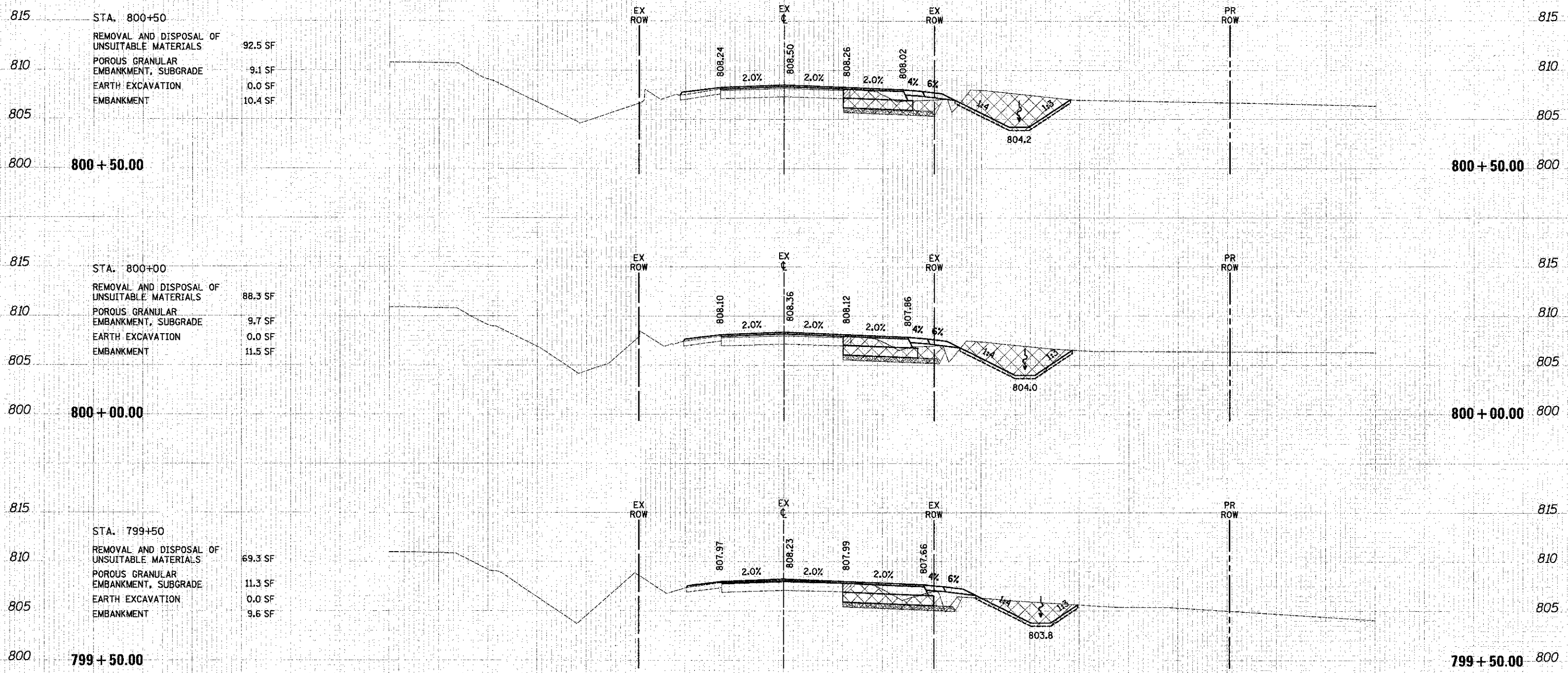
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	24.9 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	6.0 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	0.0 SF

DATE	
BY	
SURVEYED	
PLOTTED	
NOTED	
NO. 3 BOOK	
NO.	

DATE	
BY	
ORIGINAL	
SURVEY	
NOTED	
NO. 3 BOOK	
NO.	

**LEGEND**




	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL





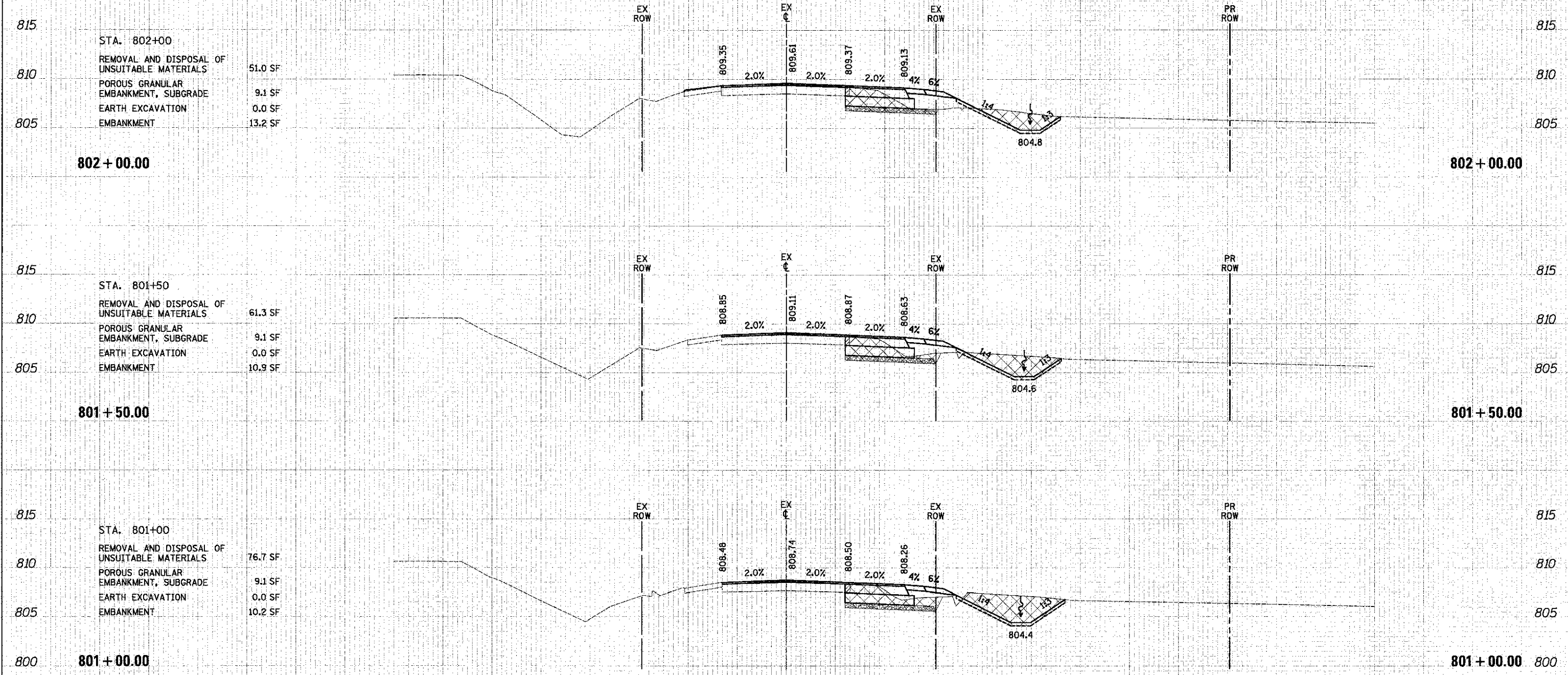
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**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

BY: DAC  
 SURVEYED: [ ]  
 CHECKED: [ ]  
 DATE: [ ]  
 NO. [ ]

BY: [ ]  
 SURVEYED: [ ]  
 CHECKED: [ ]  
 DATE: [ ]  
 NO. [ ]



STA. 802+00

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	51.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	9.1 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	13.2 SF

STA. 801+50

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	61.3 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	9.1 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	10.9 SF

STA. 801+00

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	76.7 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	9.1 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	10.2 SF

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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PLOT DATE: 2/2/2012	DATE: 02/06/12	REVISED: -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

SCALE: 1"=5'-V/10'-H SHEET NO. 8 OF 15 SHEETS STA. 801+00.00 TO STA. 802+00.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 173
CONTRACT NO. 63640			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

**LEGEND**

	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL

FINAL	DATE
SURVEYED	
NOTED	
NO. 1 BOOK	
AREAS CHECKED	

ORIGINAL	DATE
SURVEYED	
NOTED	
NO. 2 BOOK	
AREAS CHECKED	

**STA. 803+50**

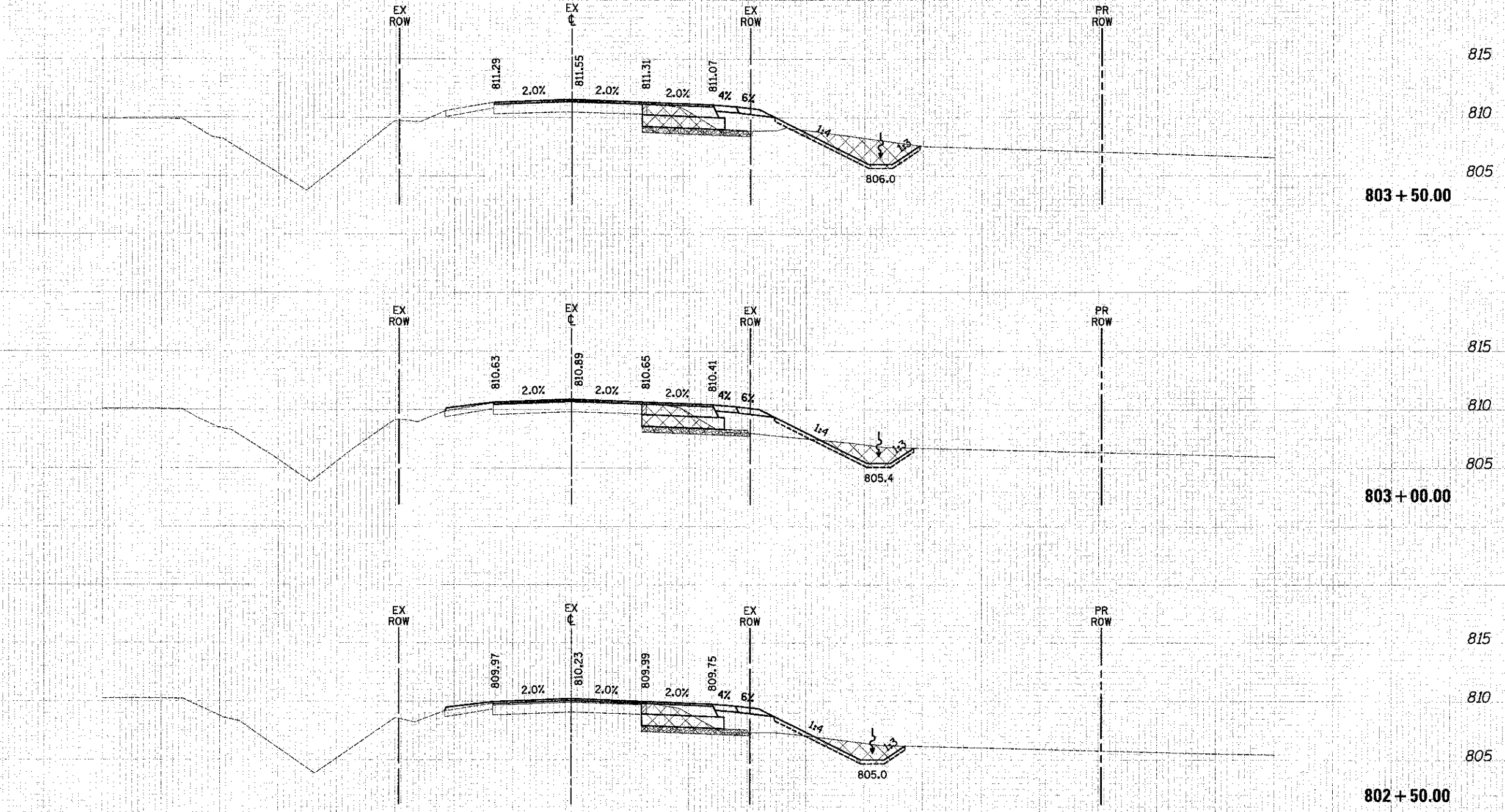
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	58.7 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	9.1 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	13.6 SF

**STA. 803+00**

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	45.1 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	9.1 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	17.9 SF

**STA. 802+50**

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	42.1 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	9.1 SF
EARTH EXCAVATION	0.0 SF
EMBANKMENT	16.2 SF



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PLOT SCALE = 10.0000' / 1" in.	CHECKED - DNM	REVISED -
PLOT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

SCALE: 1"=5'-0"/10'H SHEET NO. 9 OF 15 SHEETS STA. 802+50.00 TO STA. 803+50.00

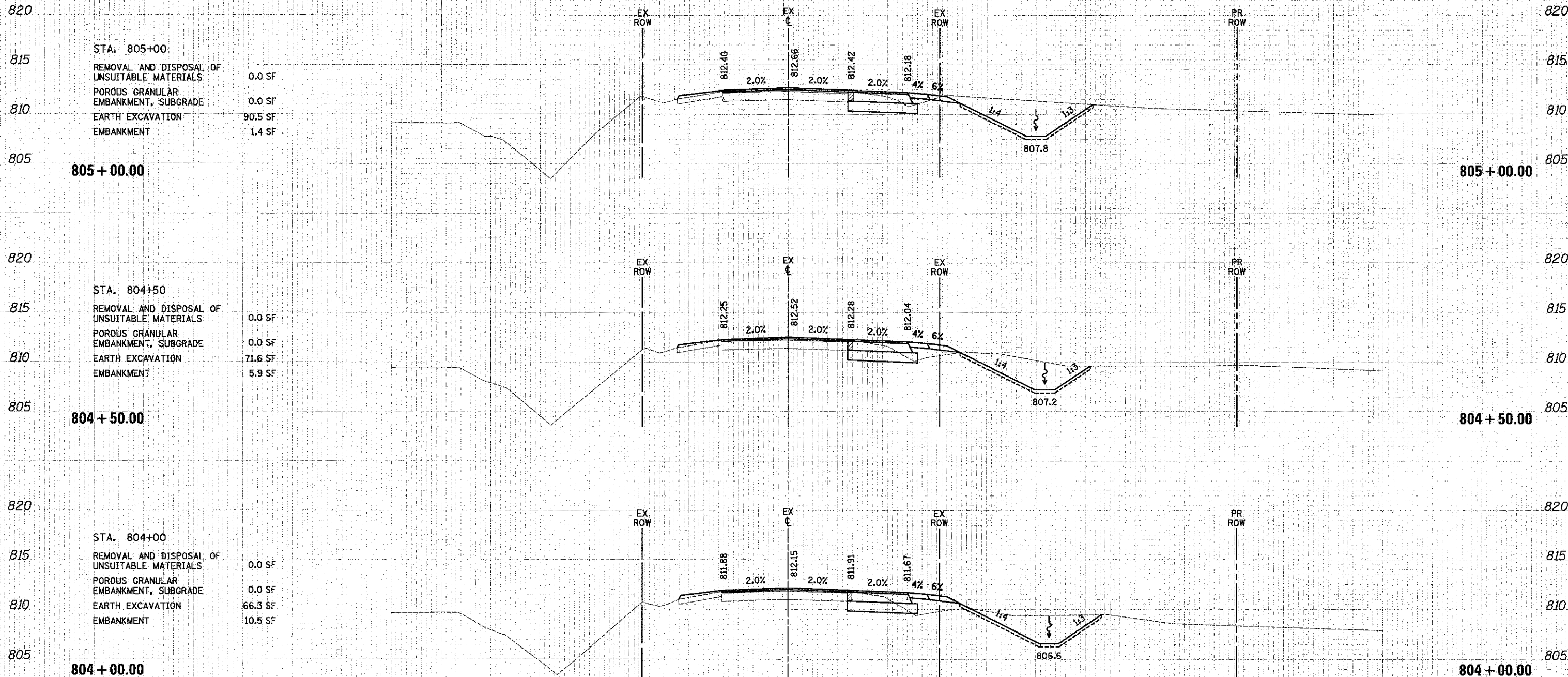
F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 174
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				CONTRACT NO. 63640

DATE	
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FINI	
SURVEY	
NO. OF BOOK	
NO.	
AREAS CHECKED	
PLAT ID	

DATE	
BY	
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SURVEY	
NO. OF BOOK	
NO.	
AREAS CHECKED	
PLAT ID	

**LEGEND**

	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL



STA. 805+00

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	90.5 SF
EMBANKMENT	1.4 SF

STA. 804+50

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	71.6 SF
EMBANKMENT	5.9 SF

STA. 804+00

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	66.3 SF
EMBANKMENT	10.5 SF

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PLT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL ROUTE 137

SCALE: 1"=5'V/10'H SHEET NO. 10 OF 15 SHEETS STA. 804+00.00 TO STA. 805+00.00

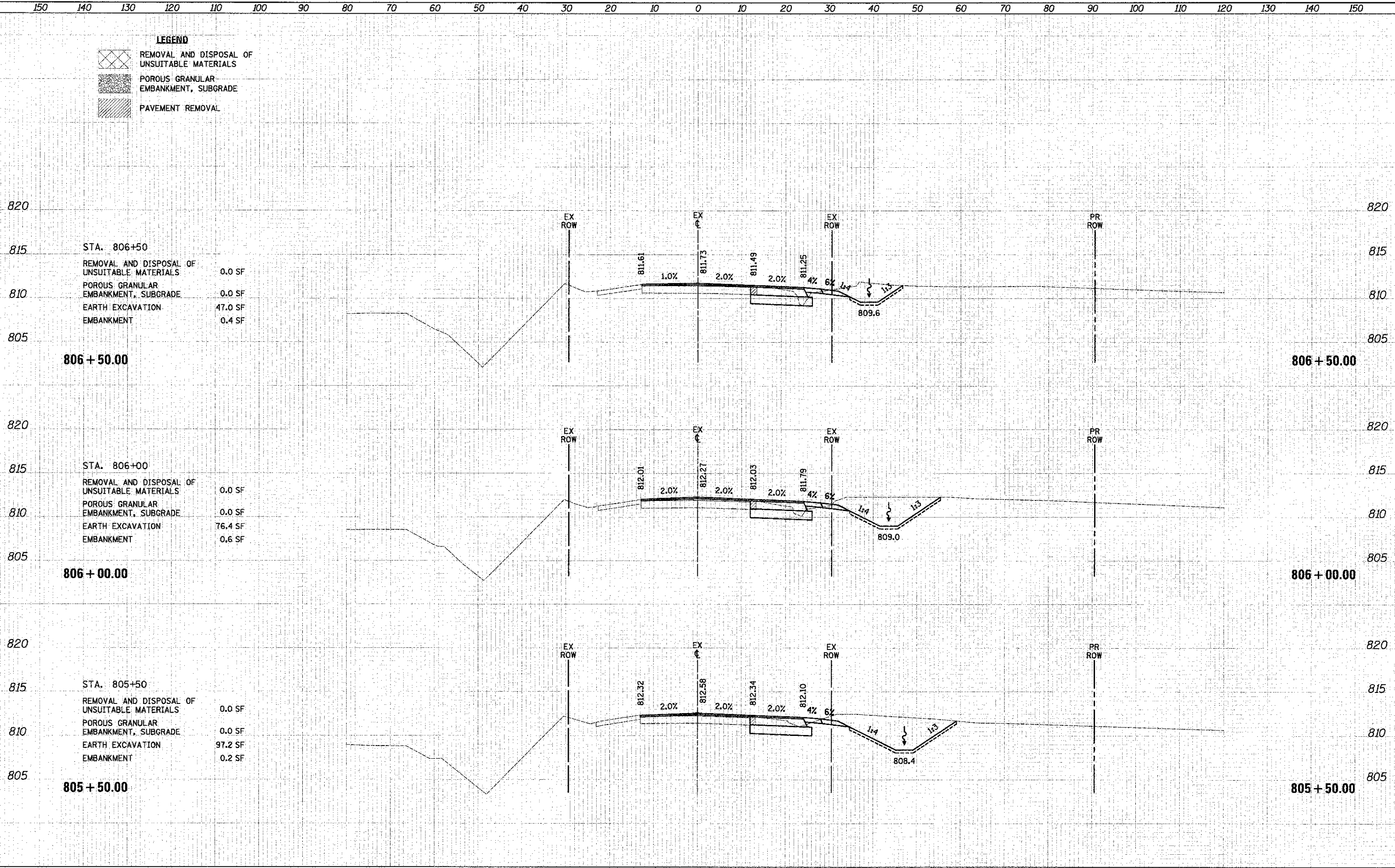
F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	175
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NO. 100K	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NO. 100K	
AREAS CHECKED	

**LEGEND**

	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
	POROUS GRANULAR EMBANKMENT, SUBGRADE
	PAVEMENT REMOVAL



STA. 806+50

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	47.0 SF
EMBANKMENT	0.4 SF

STA. 806+00




REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	76.4 SF
EMBANKMENT	0.6 SF

STA. 805+50

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	0.0 SF
POROUS GRANULAR EMBANKMENT, SUBGRADE	0.0 SF
EARTH EXCAVATION	97.2 SF
EMBANKMENT	0.2 SF

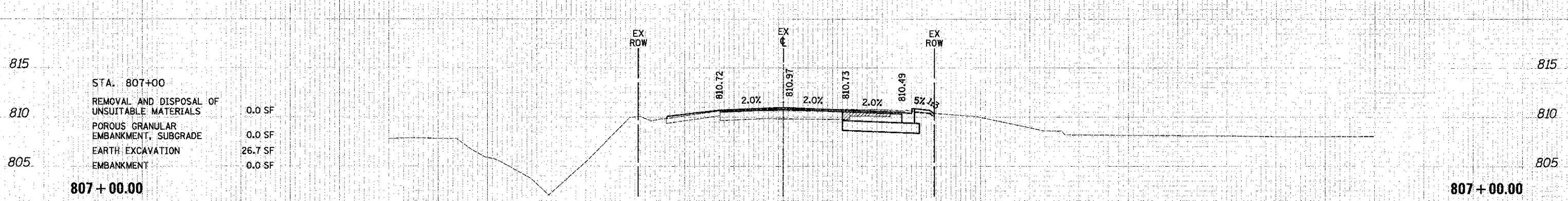
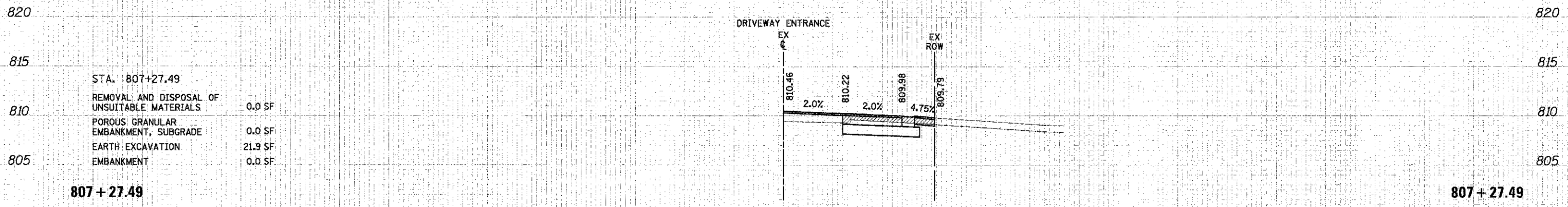
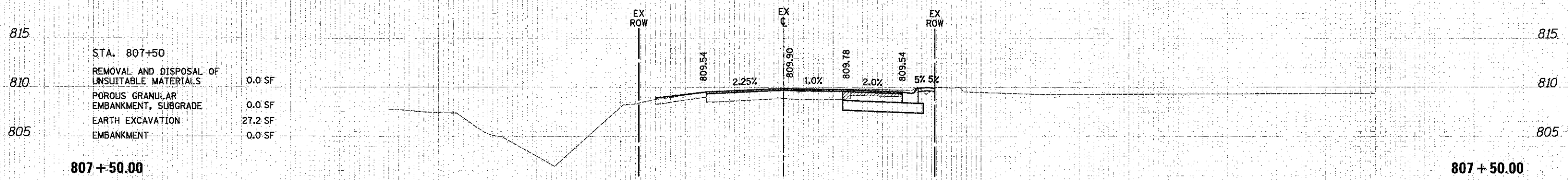
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**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

BY	DATE
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DATE	

BY	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	



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 PLOT DATE = 2/2/2012

DESIGNED MJP  
 DRAWN MJP  
 CHECKED DNM  
 DATE 02/06/12

REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**




**CROSS SECTIONS - IL ROUTE 137**

SCALE: 1"=5'-0"/10'-0" SHEET NO. 12 OF 15 SHEETS STA. 807+00.00 TO STA. 807+50.00

F.A.U. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 177
CONTRACT NO. 63640			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

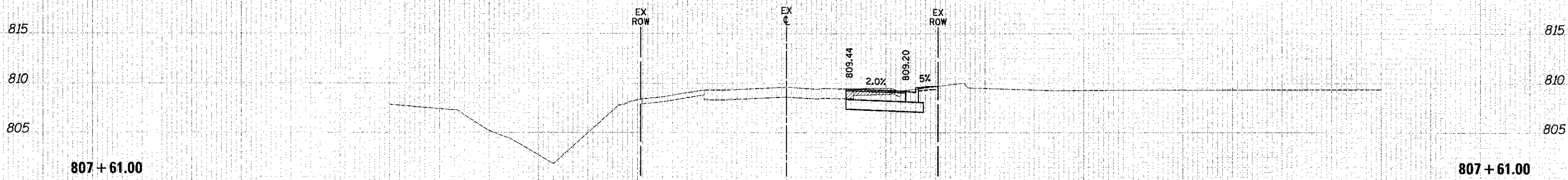
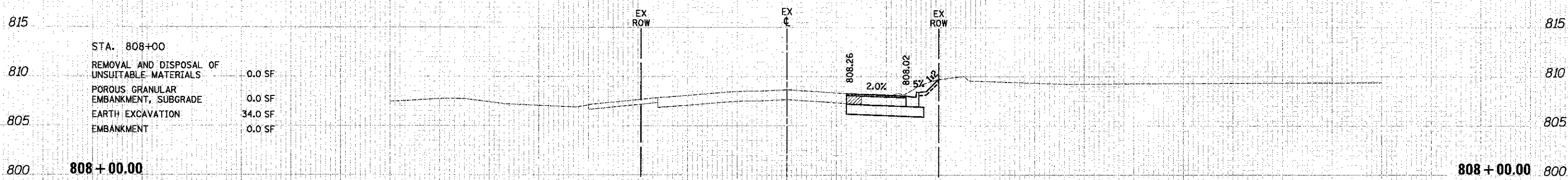
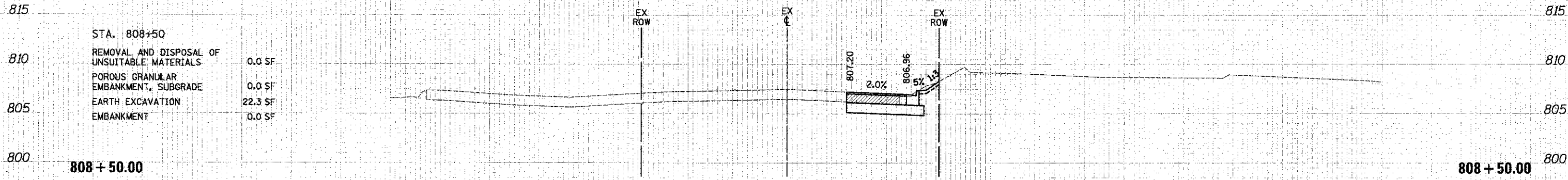
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LEGEND

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 ORIGINAL SURVEY: \_\_\_\_\_  
 SURVEY NO.: \_\_\_\_\_  
 SURVEY DATE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 ORIGINAL SURVEY: \_\_\_\_\_  
 SURVEY NO.: \_\_\_\_\_  
 SURVEY DATE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME: ods	DESIGNED: MJP	REVISED:
FILE NAME: ...2189...ent...137.dgn	DRAWN: MJP	REVISED:
PLOT SCALE: 18.0000 / 1"	CHECKED: DNM	REVISED:
PLOT DATE: 2/2/2012	DATE: 02/06/12	REVISED:




STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL ROUTE 137

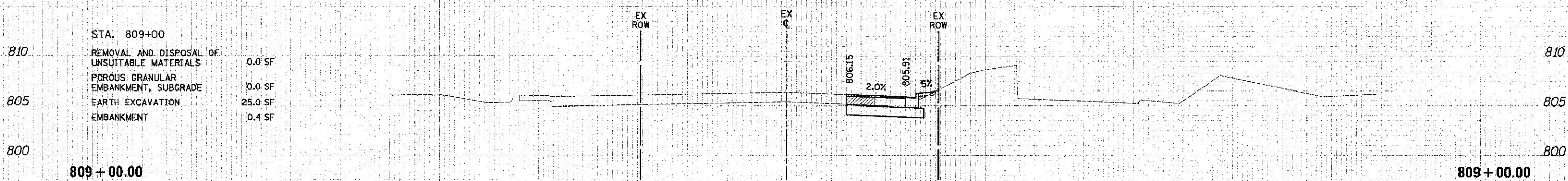
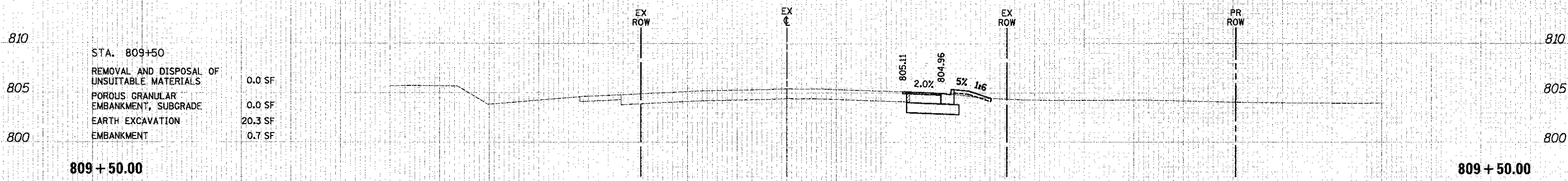
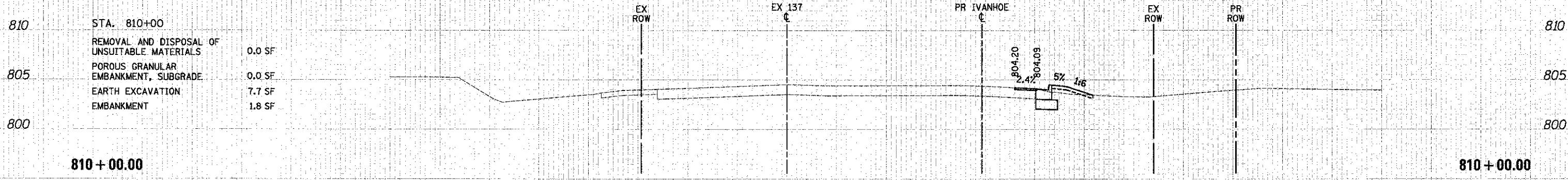
SCALE: 1"=5'-V/10'-H SHEET NO. 13 OF 15 SHEETS STA. 807+61.00 TO STA. 808+50.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 178
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS
-  POROUS GRANULAR EMBANKMENT, SUBGRADE
-  PAVEMENT REMOVAL

DATE	
BY	
FINAL SURVEY	
NO. 1 BOOK	
NO. 2 BOOK	
AREAS CHECKED	



DATE	
BY	
ORIGINAL SURVEY	
NO. 1 BOOK	
NO. 2 BOOK	
AREAS CHECKED	



USER NAME	eds
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PLOT DATE	2/2/2012

DESIGNED	- MJP
DRAWN	- MJP
CHECKED	- DNM
DATE	- 02/06/12

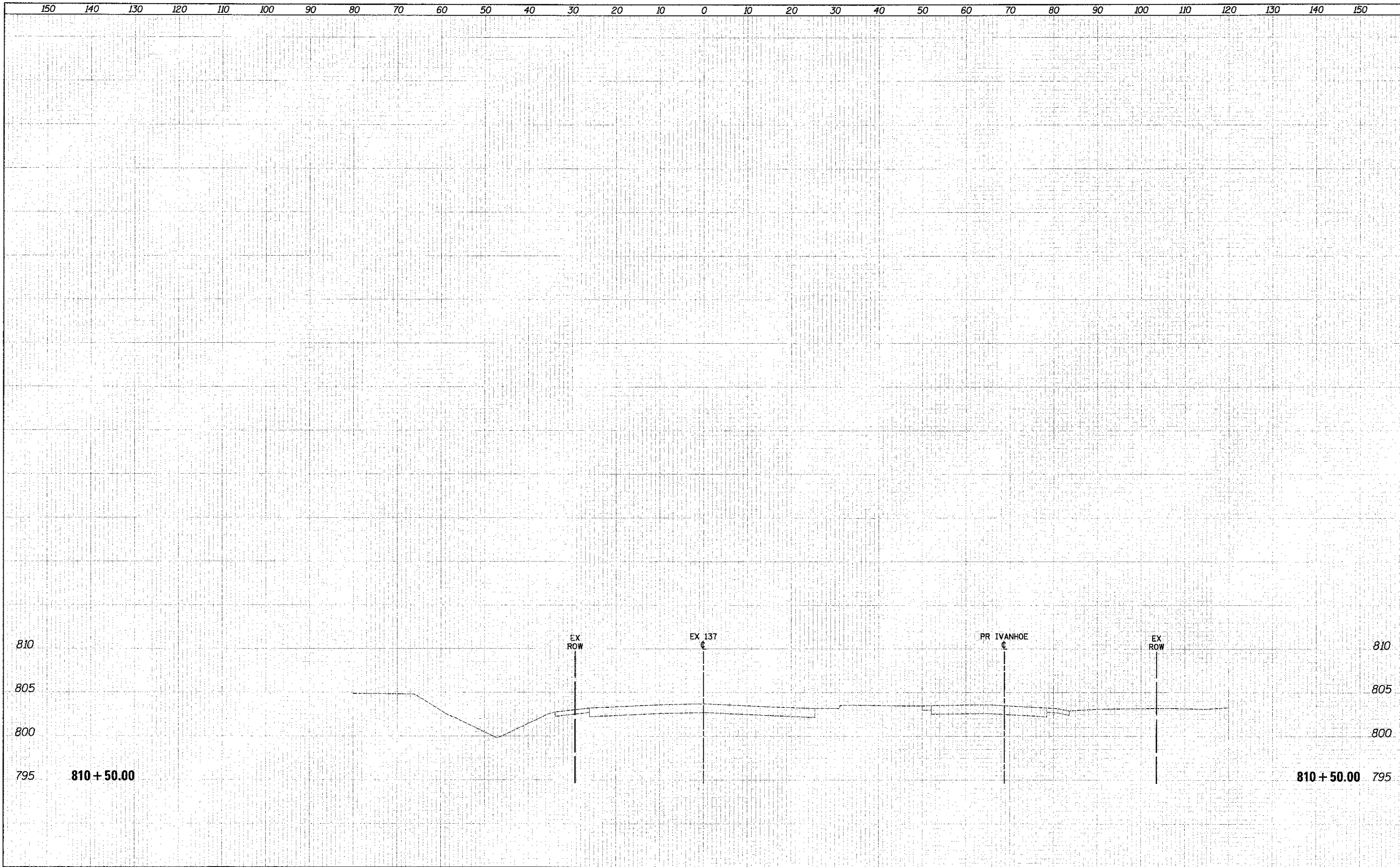
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL ROUTE 137  
SCALE: 1"=5'V/10'H | SHEET NO. 14 OF 15 SHEETS | STA. 809+00.00 TO STA. 810+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS: NO.
198	00-00045-00-PV	LAKE	195 179
CONTRACT NO.			63640
FED. ROAD DIST. NO. 1 ILLINOIS-FED. AID PROJECT			

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLANNED	
NOTED	
NO.	



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PLOT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 137**

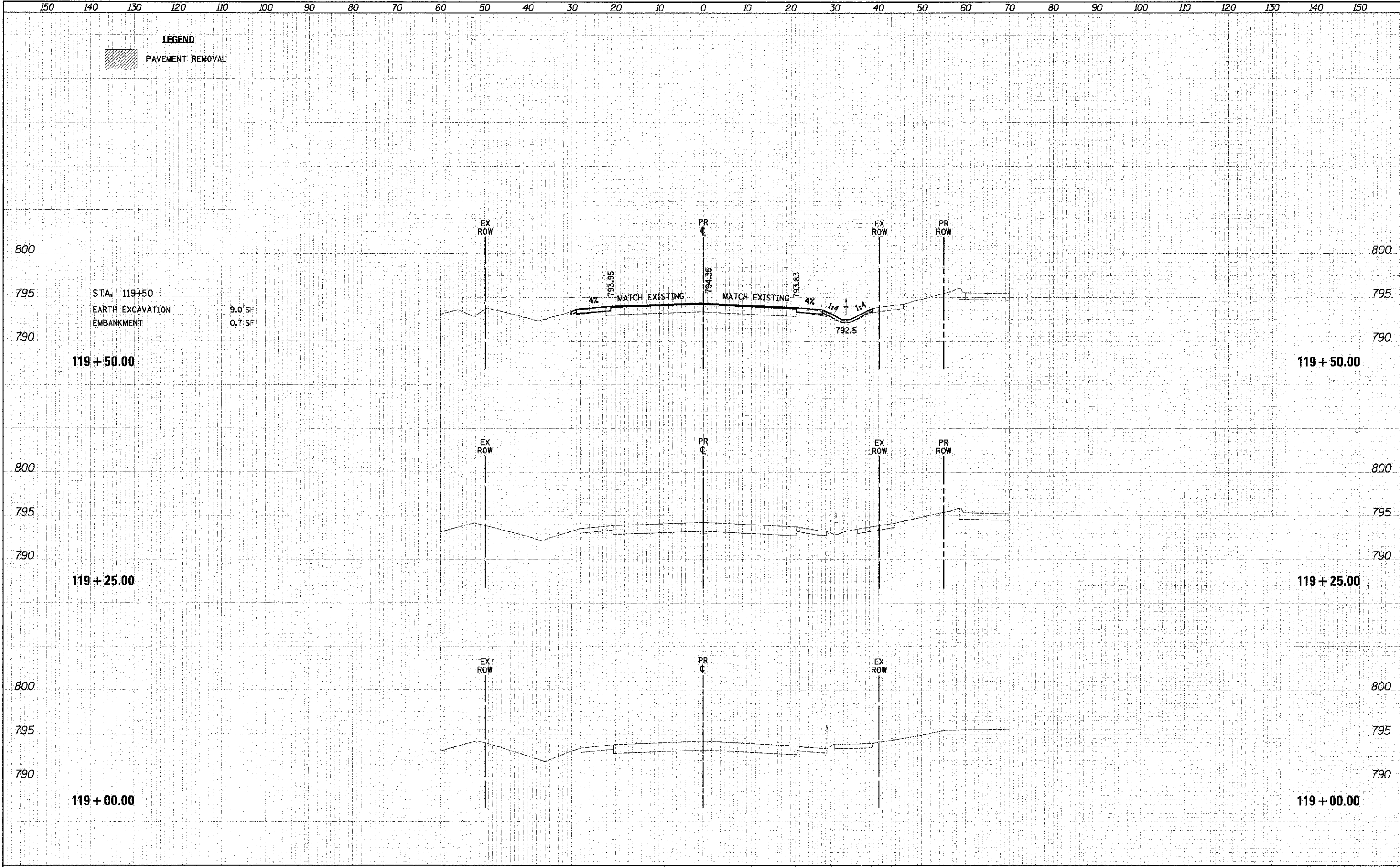
SCALE: 1"=5'V/10' H | SHEET NO. 15 OF 15 SHEETS | STA. 810+50.00 TO STA. 810+50.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 180
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO. OF SHEETS	
NO. OF BOOKS	
NO. OF AREAS CHECKED	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO. OF SHEETS	
NO. OF BOOKS	
NO. OF AREAS CHECKED	



**LEGEND**  
 PAVEMENT REMOVAL

STA. 119+50  
 EARTH EXCAVATION 9.0 SF  
 EMBANKMENT 0.7 SF  
**119 + 50.00**

**119 + 25.00**

**119 + 00.00**

**119 + 50.00**

**119 + 25.00**

**119 + 00.00**

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME: mds  
 FILE NAME: ...12189-sht-xssht-120.dgn  
 PLOT SCALE: 1/8" = 1' / 1/8"  
 PLOT DATE: 2/2/2012

DESIGNED: MJP  
 DRAWN: MJP  
 CHECKED: DNM  
 DATE: 02/06/12

REVISED: -  
 REVISED: -  
 REVISED: -  
 REVISED: -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

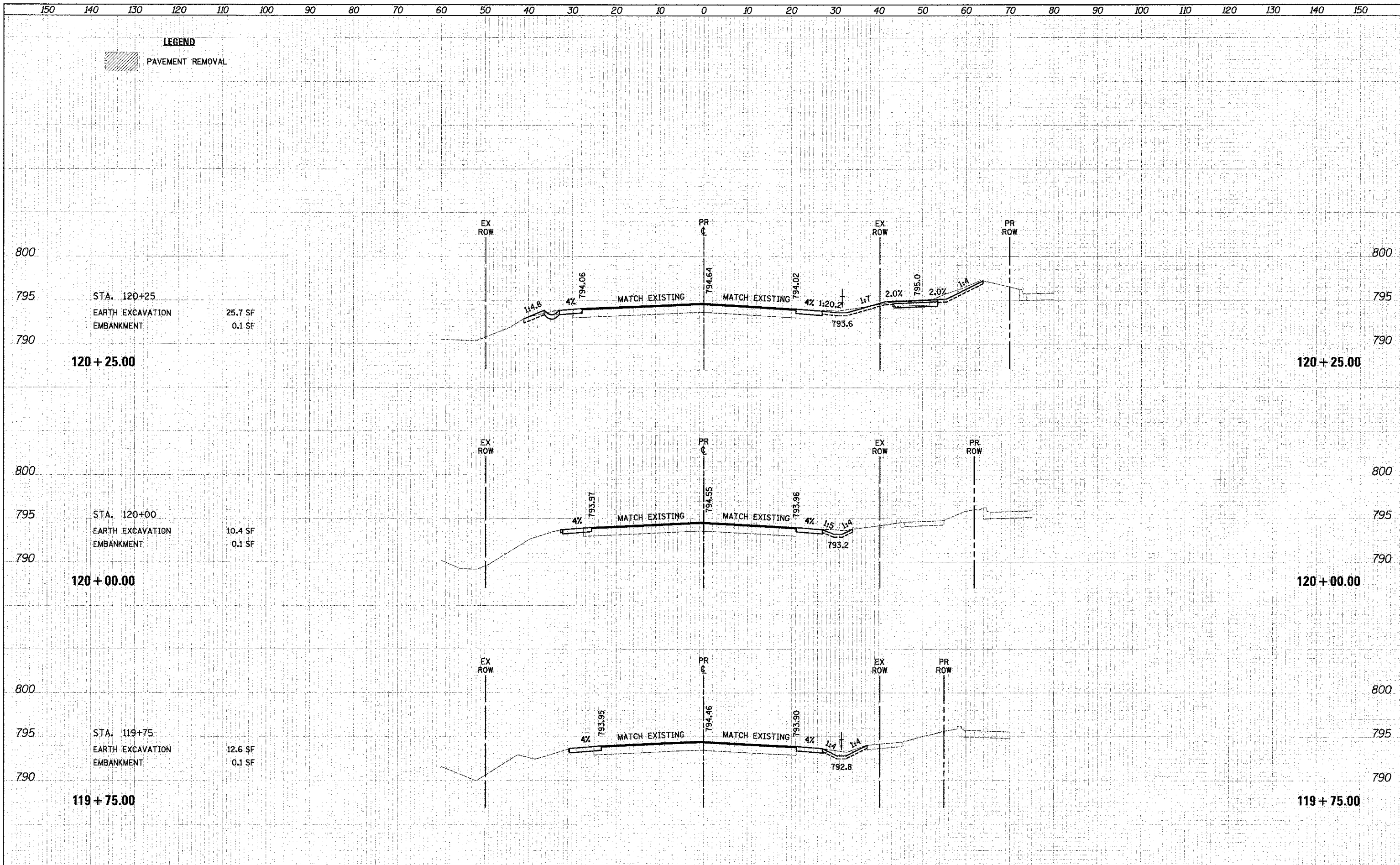
**CROSS SECTIONS - IL ROUTE 120**

SCALE: 1"=5'V/10'H SHEET NO. 1 OF 6 SHEETS STA. 119+00.00 TO STA. 119+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	181
CONTRACT NO. 63640				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE

BY	DATE



LEGEND  
 PAVEMENT REMOVAL

STA. 120+25  
 EARTH EXCAVATION 25.7 SF  
 EMBANKMENT 0.1 SF  
**120 + 25.00**

STA. 120+00  
 EARTH EXCAVATION 10.4 SF  
 EMBANKMENT 0.1 SF  
**120 + 00.00**

STA. 119+75  
 EARTH EXCAVATION 12.6 SF  
 EMBANKMENT 0.1 SF  
**119 + 75.00**

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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 PLOT SCALE = 18.000000 / /  
 PLOT DATE = 2/2/2012

DESIGNED - MJP  
 DRAWN - MJP  
 CHECKED - DNM  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL ROUTE 120

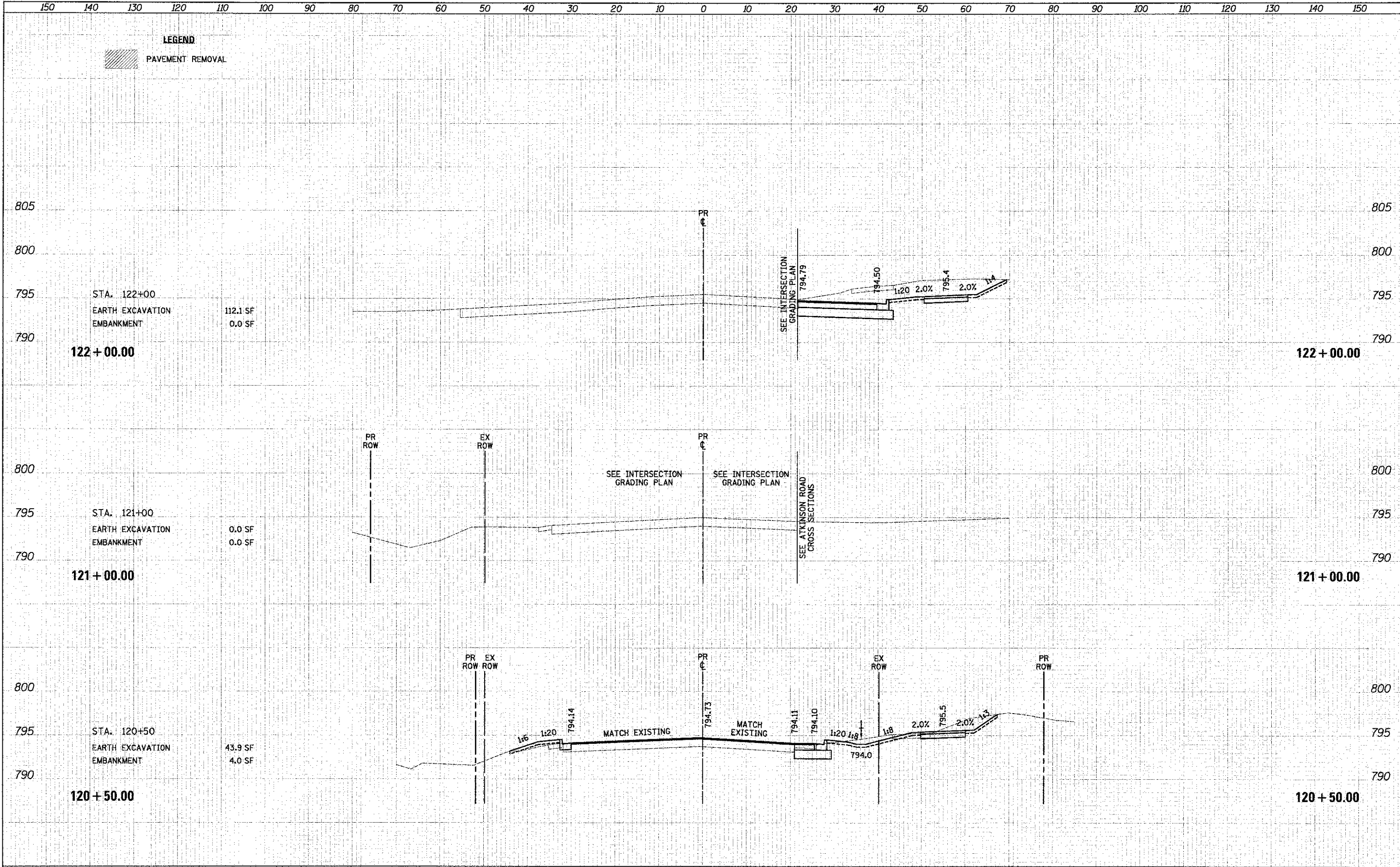
SCALE: 1"=5'V/10'H SHEET NO. 2 OF 6 SHEETS STA. 119+75.00 TO STA. 120+25.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 182
CONTRACT NO. 63640			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	



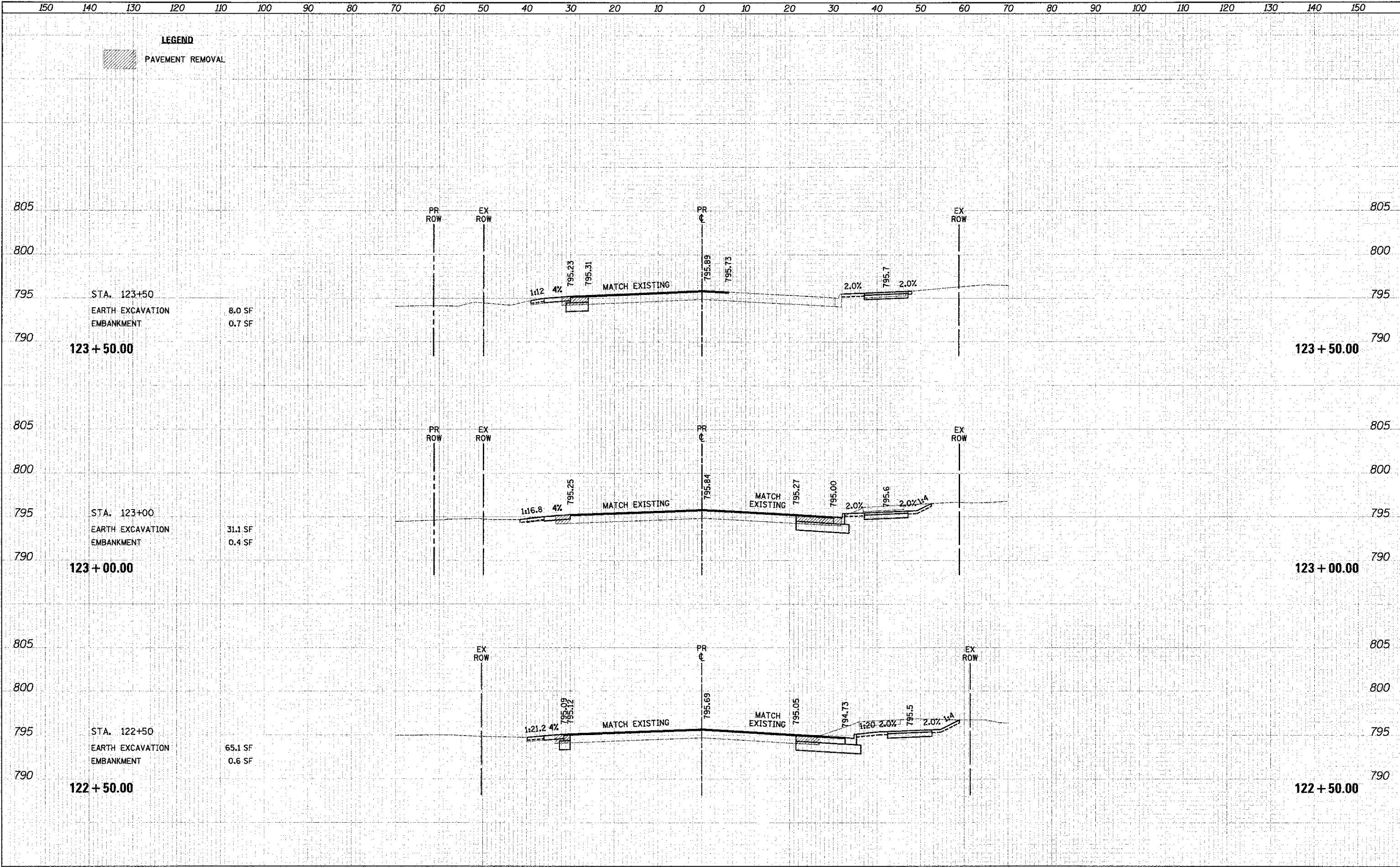
DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



FINAL SURVEYED BY: DMS  
 SURVEY NO. 1218  
 NOTE BOOK TEMP. ATZ  
 AREAS CHECKED

ORIGINAL SURVEY PLOTTED BY: JMA  
 NOTE BOOK TEMP. ATZ  
 AREAS CHECKED




STA. 123+50  
 EARTH EXCAVATION 8.0 SF  
 EMBANKMENT 0.7 SF  
**123 + 50.00**

STA. 123+00  
 EARTH EXCAVATION 31.1 SF  
 EMBANKMENT 0.4 SF  
**123 + 00.00**

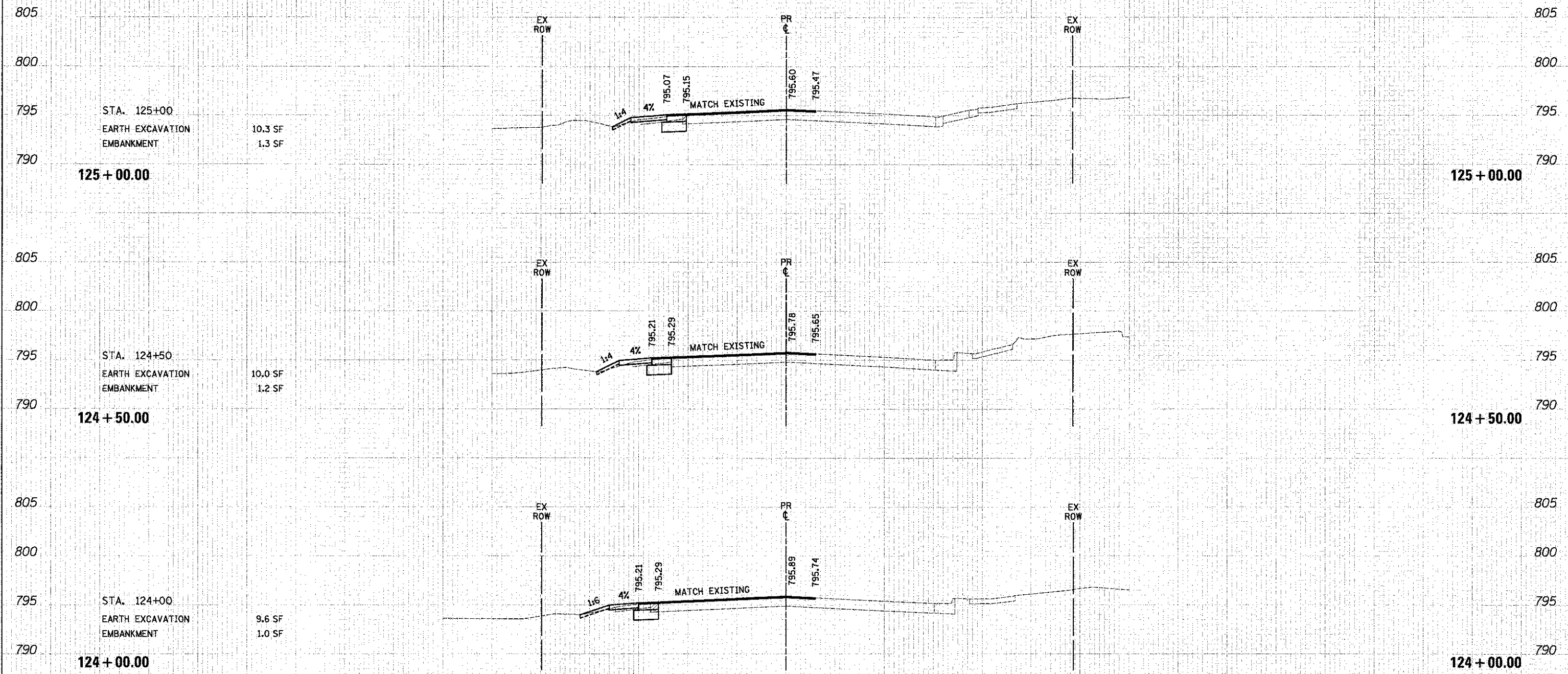
STA. 122+50  
 EARTH EXCAVATION 65.1 SF  
 EMBANKMENT 0.6 SF  
**122 + 50.00**

**LEGEND**

 PAVEMENT REMOVAL

FINAL	SUBMITTED	DATE
NO. 1	NO. 1	NO. 1
NO. 2	NO. 2	NO. 2
NO. 3	NO. 3	NO. 3
NO. 4	NO. 4	NO. 4
NO. 5	NO. 5	NO. 5
NO. 6	NO. 6	NO. 6
NO. 7	NO. 7	NO. 7
NO. 8	NO. 8	NO. 8
NO. 9	NO. 9	NO. 9
NO. 10	NO. 10	NO. 10

ORIGINAL	SUBMITTED	DATE
NO. 1	NO. 1	NO. 1
NO. 2	NO. 2	NO. 2
NO. 3	NO. 3	NO. 3
NO. 4	NO. 4	NO. 4
NO. 5	NO. 5	NO. 5
NO. 6	NO. 6	NO. 6
NO. 7	NO. 7	NO. 7
NO. 8	NO. 8	NO. 8
NO. 9	NO. 9	NO. 9
NO. 10	NO. 10	NO. 10



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 PLOT SCALE = 18.0000  
 PLOT DATE = 2/2/2012

DESIGNED - MJP  
 DRAWN - MJP  
 CHECKED - DNM  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -


**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 120**  
 SCALE: 1"=5'V/10'H SHEET NO. 5 OF 6 SHEETS STA. 124+00.00 TO STA. 125+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	185
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			<b>CONTRACT NO. 63640</b>	

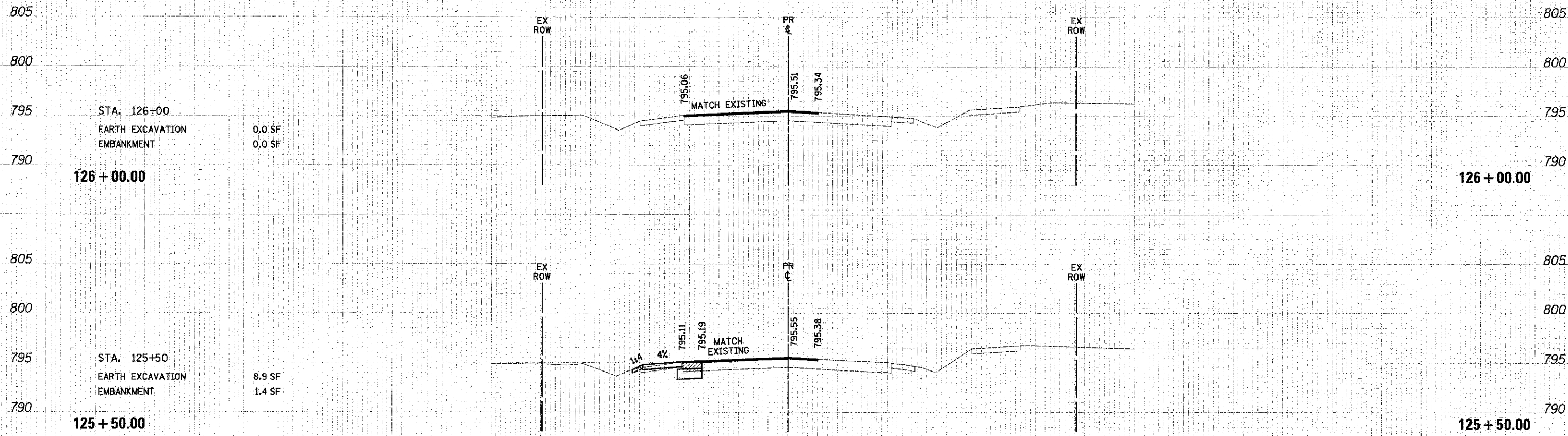
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**LEGEND**

 PAVEMENT REMOVAL

DATE	
BY	
FINAL SURVEY	
NOTICE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTICE BOOK	
AREAS CHECKED	



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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PLOT SCALE = 1/4" = 1' / in.	CHECKED - DNM	REVISED -
PLOT DATE = 2/2/2012	DATE - 02/06/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

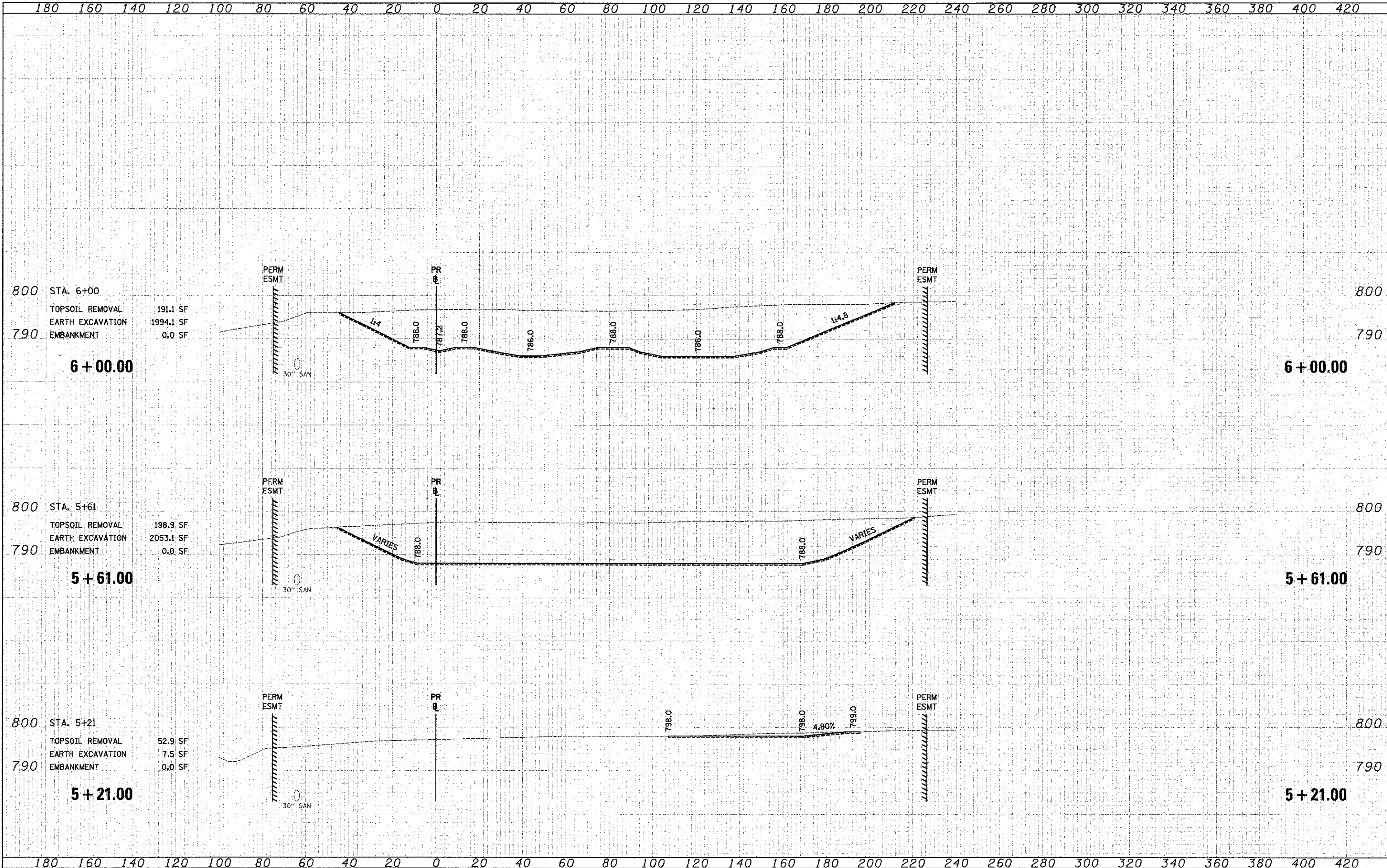
**CROSS SECTIONS - IL ROUTE 120**

SCALE: 1/4"=5'/10'H SHEET NO. 6 OF 6 SHEETS STA. 125+50.00 TO STA. 126+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
198	00-00045-00-PV	LAKE	195 186
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 63640

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

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



180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



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PLOT SCALE	28.2000' / 1" =
PLOT DATE	2/2/2012
DESIGNED	MJP
DRAWN	MJP
CHECKED	DNM
DATE	02/06/12

REVISED	
REVISED	
REVISED	
REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

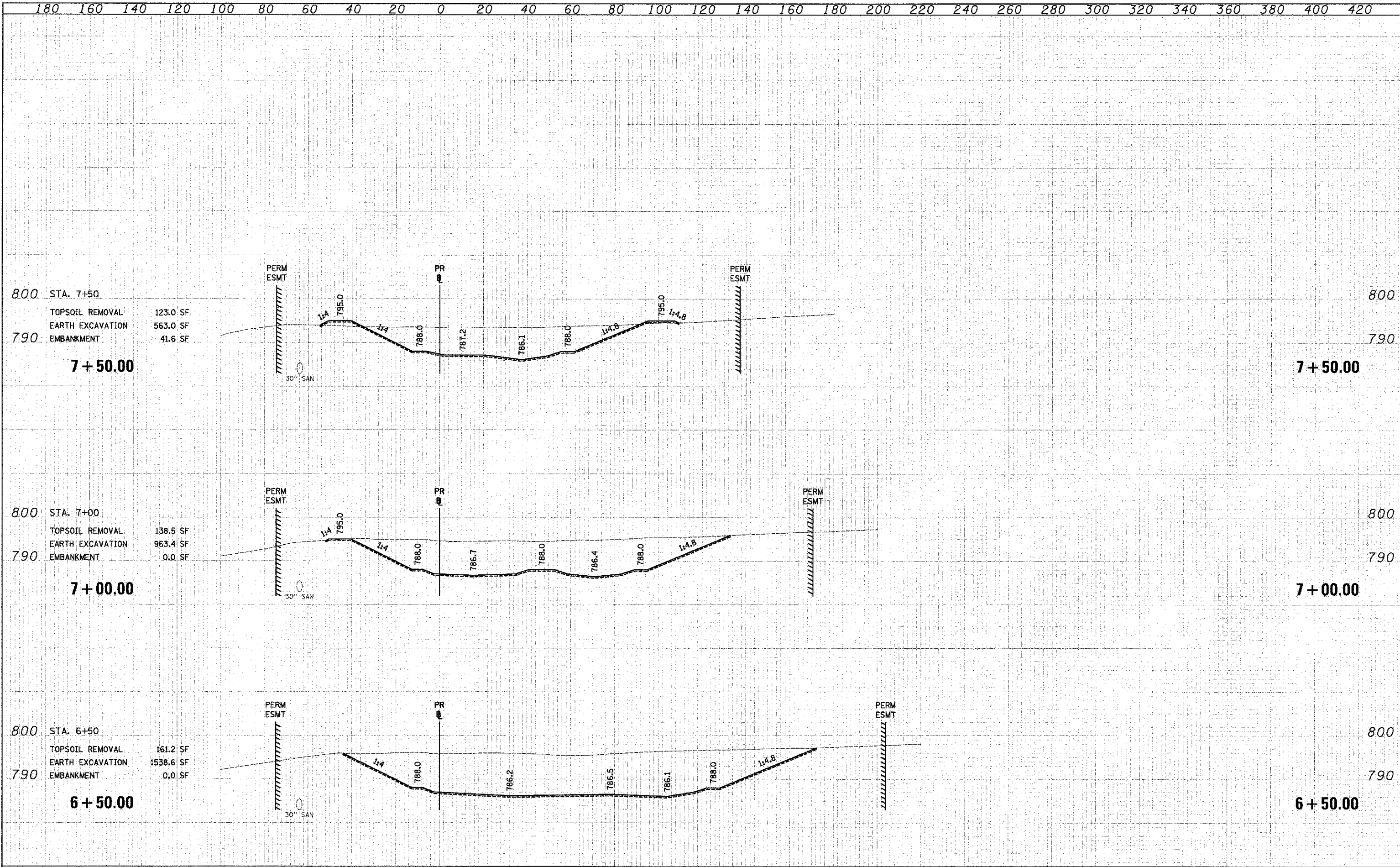
**CROSS SECTIONS - POND & DEPRESSIONAL AREA**

SCALE: 1"=10'V/20'H SHEET NO. 1 OF 9 SHEETS STA. 5+21.00 TO STA. 6+00.00

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	187
CONTRACT NO.			63640	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	TEMPERATURE
NO. BOOK	AREAS CHECKED
NO.	

BY	DATE
SURVEYED	TEMPERATURE
NO. BOOK	AREAS CHECKED
NO.	



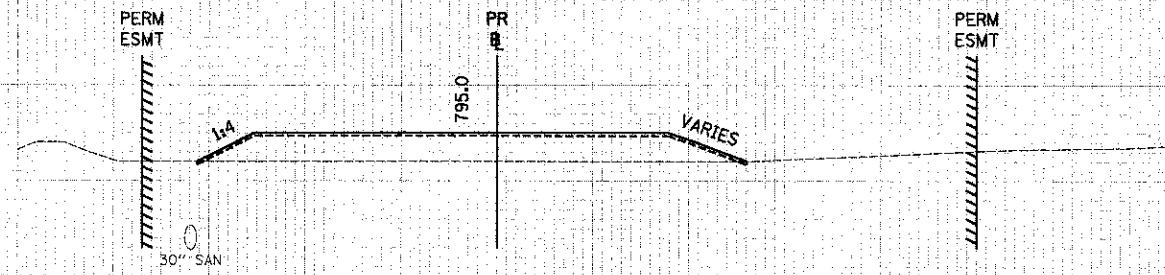
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	PLOT SCALE = 20.0000 1/1	CHECKED = DNM	REVISED =			CONTRACT NO. 63640				
	PLOT DATE = 2/2/2012	DATE = 02/06/12	REVISED =							



180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420

FINA	DATE
SURVEY	BY
EMPALE	
NOTE BOOK	
AREAS	
CHECKED	

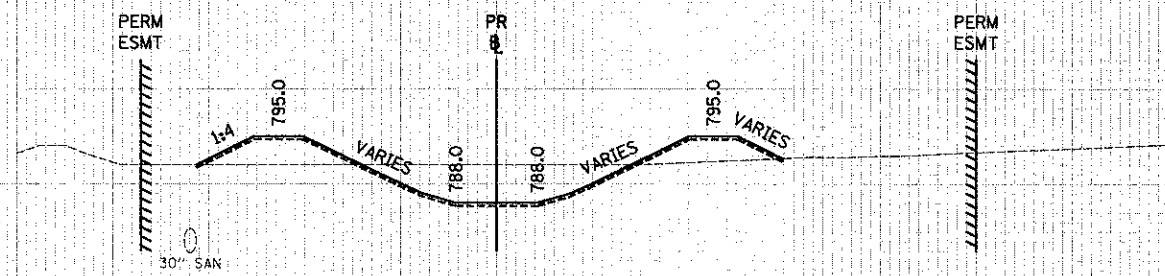
800 STA. 8+89  
 TOPSOIL REMOVAL 86.0 SF  
 EARTH EXCAVATION 0.0 SF  
 EMBANKMENT 349.2 SF  
**8 + 89.00**



**8 + 89.00**

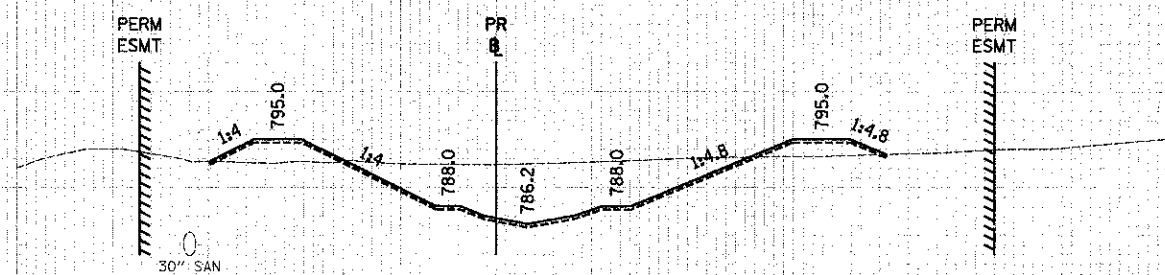
ORIGINAL	DATE
STAMP	BY
SURVEY	
EMPALE	
NOTE BOOK	
AREAS	
CHECKED	

800 STA. 8+61  
 TOPSOIL REMOVAL 91.6 SF  
 EARTH EXCAVATION 132.4 SF  
 EMBANKMENT 150.8 SF  
**8 + 61.00**



**8 + 61.00**

800 STA. 8+00  
 TOPSOIL REMOVAL 105.7 SF  
 EARTH EXCAVATION 282.0 SF  
 EMBANKMENT 105.5 SF  
**8 + 00.00**



**8 + 00.00**

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



USER NAME	ceda	DESIGNED	MJP	REVISED	-
FILE NAME	...N2109-shl-xesht-pond.dgn	DRAWN	MJP	REVISED	-
PL01 SCALE	20.0000 1/1 in.	CHECKED	DNM	REVISED	-
PL01 DATE	2/2/2012	DATE	02/06/12	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - POND & DEPRESSIONAL AREA

SCALE: 1"=10'V/20'H SHEET NO. 3 OF 9 SHEETS STA. 8+00.00 TO STA. 8+89.00

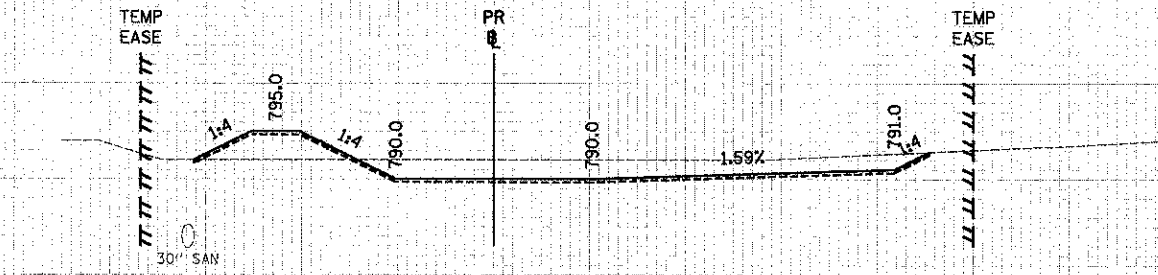
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	189
CONTRACT NO.			63640	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420

FILE	DATE
SURVEY	BY
PLOTTED	
NOTED	
AREAS	
CHECKED	

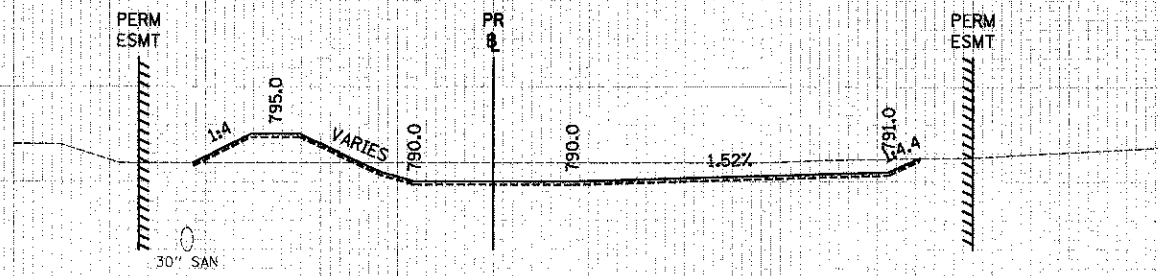
ORIGINAL	DATE
SURVEY	BY
PLOTTED	
NOTED	
AREAS	
CHECKED	

800 STA. 10+00  
 TOPSOIL REMOVAL 114.6 SF  
 EARTH EXCAVATION 150.8 SF  
 790 EMBANKMENT 80.5 SF



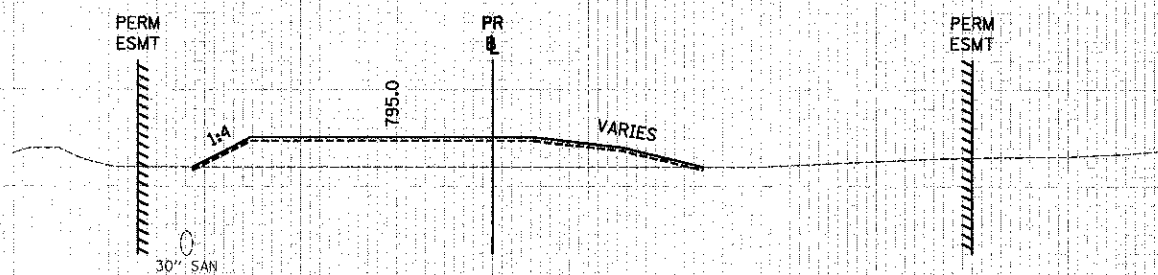
800  
 790  
**10 + 00.00**

800 STA. 9+19  
 TOPSOIL REMOVAL 113.1 SF  
 EARTH EXCAVATION 140.0 SF  
 790 EMBANKMENT 82.3 SF



800  
 790  
**9 + 19.00**

800 STA. 8+99  
 TOPSOIL REMOVAL 79.9 SF  
 EARTH EXCAVATION 0.0 SF  
 790 EMBANKMENT 303.0 SF



800  
 790  
**8 + 99.00**

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



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 PLOT DATE = 2/2/2012

DESIGNED - MJP  
 DRAWN - MJP  
 CHECKED - DNM  
 DATE - 02/06/12

REVISED  
 REVISED  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - POND & DEPRESSIONAL AREA

SCALE: 1"=10'V/20'H SHEET NO. 4 OF 9 SHEETS STA. 8+99.00 TO STA. 10+00.00

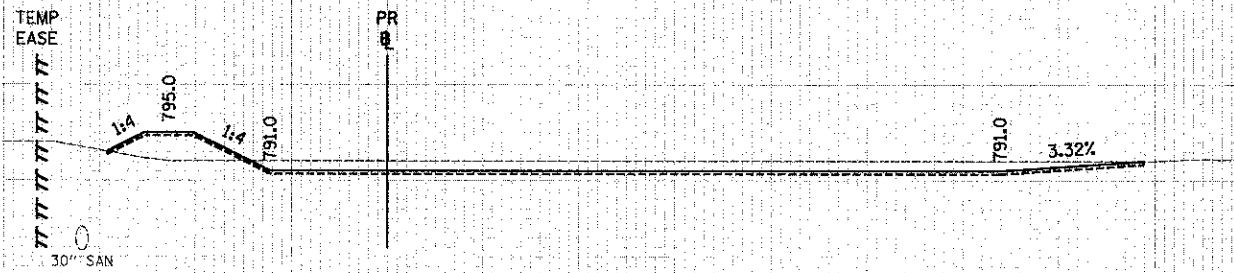
F.A.U. R.T.E. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 190
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63640	

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420

FINAL SURVEY	DATE
BY	
NOTED	
NOTES	
AREAS	
AREAS	

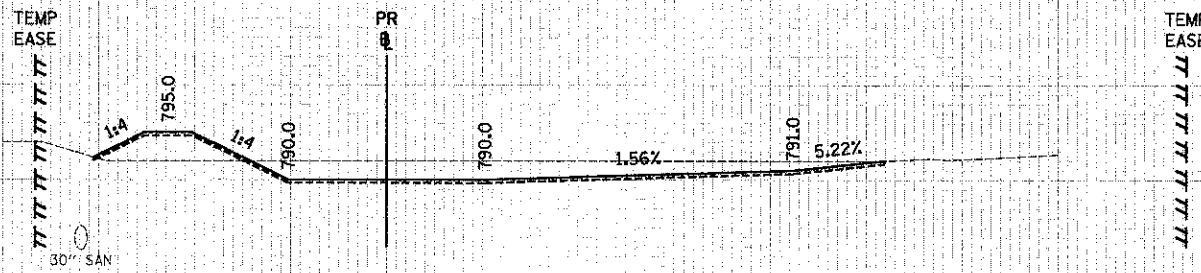
ORIGINAL SURVEY	DATE
BY	
NOTED	
NOTES	
AREAS	
AREAS	

800 STA. 11+50  
 TOPSOIL REMOVAL 159.5 SF  
 EARTH EXCAVATION 94.1 SF  
 790 EMBANKMENT 70.4 SF  
**11 + 50.00**



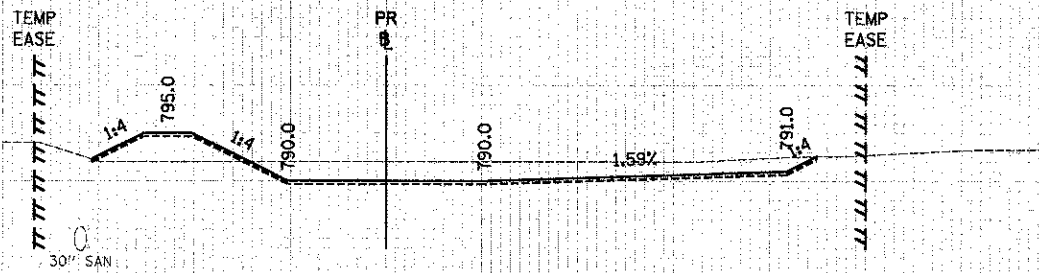
**11 + 50.00**

800 STA. 11+00  
 TOPSOIL REMOVAL 122.0 SF  
 EARTH EXCAVATION 142.7 SF  
 790 EMBANKMENT 79.2 SF  
**11 + 00.00**



**11 + 00.00**

800 STA. 10+50  
 TOPSOIL REMOVAL 113.0 SF  
 EARTH EXCAVATION 145.1 SF  
 790 EMBANKMENT 79.6 SF  
**10 + 50.00**



**10 + 50.00**

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



USER NAME: mjs  
 FILE NAME: ...2189-...  
 PLOT SCALE: 28.0000' / 1" = 100'  
 PLOT DATE: 2/2/2012

DESIGNED - MJP  
 DRAWN - MJP  
 CHECKED - DNM  
 DATE - 02/06/12

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

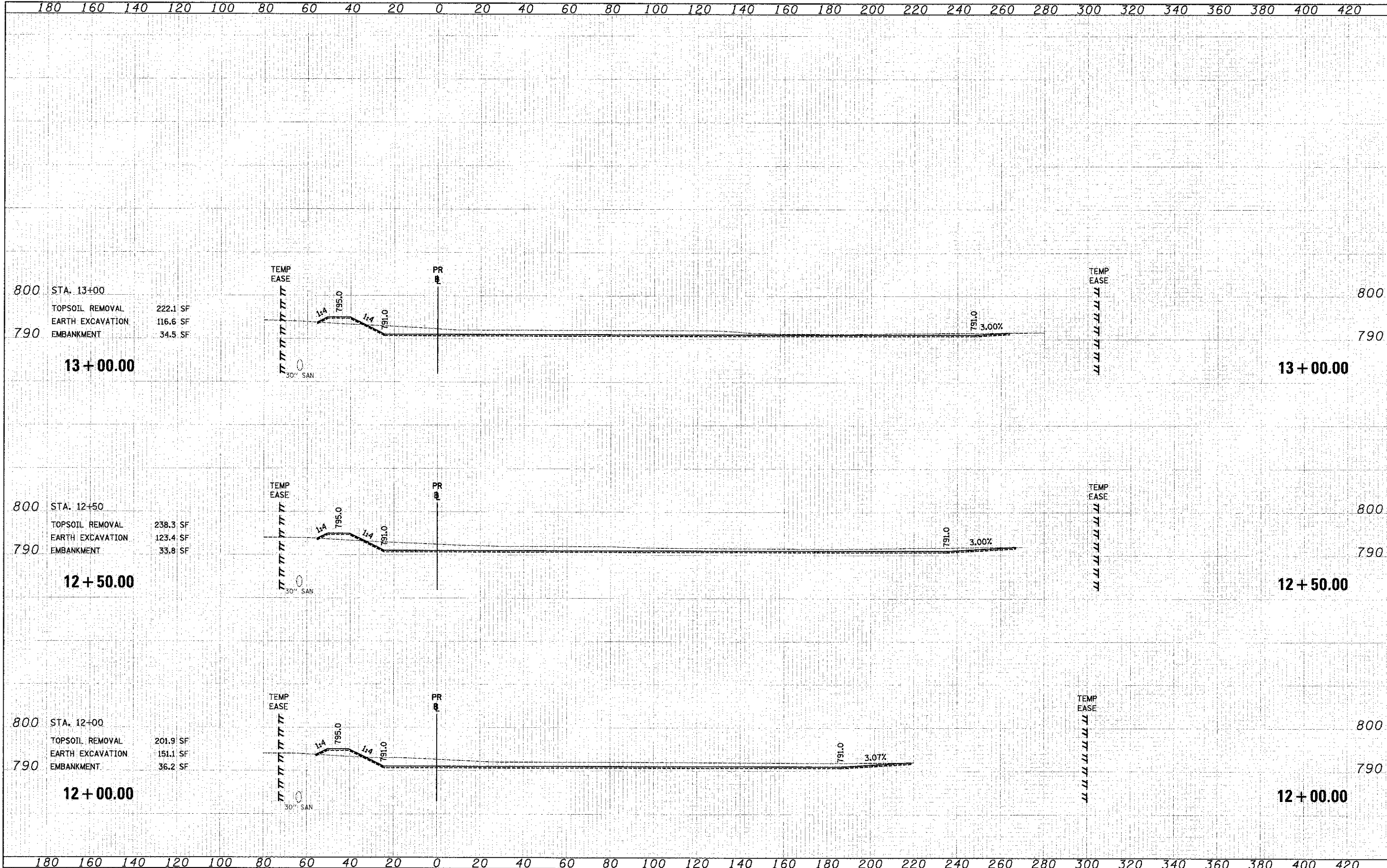
CROSS SECTIONS - POND & DEPRESSIONAL AREA

SCALE: 1"=10'V/20'H SHEET NO. 5 OF 9 SHEETS STA. 10+50.00 TO STA. 11+50.00

F.A.I. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 191
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63640	

DATE	
BY	
FINAL SURVEYED	
NOTED	
REVISIONS	
DATE	
BY	
DESCRIPTION	

DATE	
BY	
ORIGINAL SURVEYED	
NOTED	
REVISIONS	
DATE	
BY	
DESCRIPTION	



800 STA. 13+00  
 TOPSOIL REMOVAL 222.1 SF  
 EARTH EXCAVATION 116.6 SF  
 790 EMBANKMENT 34.5 SF  
**13+00.00**

800 STA. 12+50  
 TOPSOIL REMOVAL 238.3 SF  
 EARTH EXCAVATION 123.4 SF  
 790 EMBANKMENT 33.8 SF  
**12+50.00**

800 STA. 12+00  
 TOPSOIL REMOVAL 201.9 SF  
 EARTH EXCAVATION 151.1 SF  
 790 EMBANKMENT 36.2 SF  
**12+00.00**

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



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 PLOT SCALE : 20.0000 / 1 in.  
 PLOT DATE : 2/2/2012

DESIGNED - MJP  
 DRAWN - MJP  
 CHECKED - DNM  
 DATE - 02/06/12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

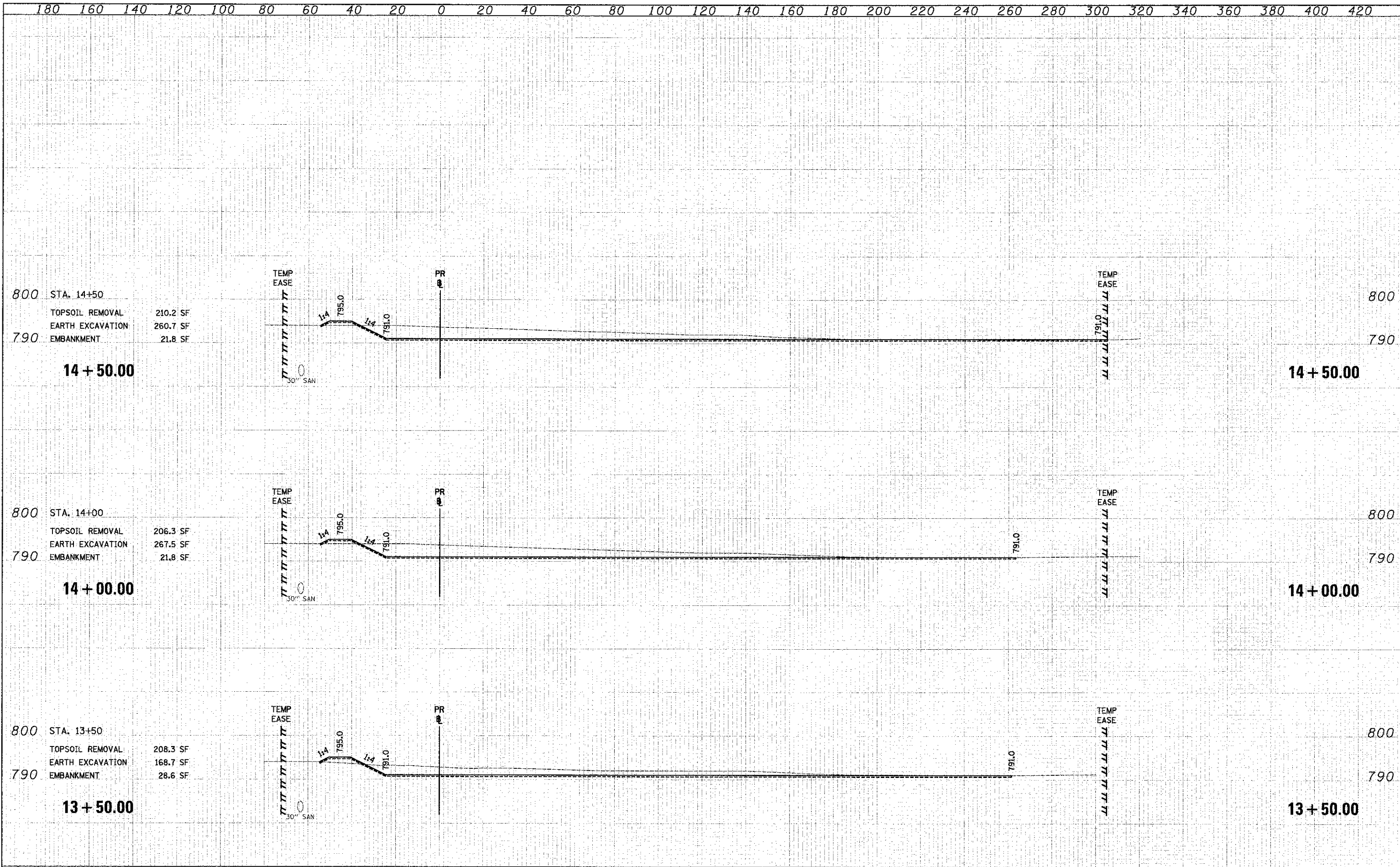
CROSS SECTIONS - POND & DEPRESSIONAL AREA

SCALE: 1"=10'V/20'H SHEET NO. 6 OF 9 SHEETS STA. 12+00.00 TO STA. 13+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
198	00-00045-00-PV	LAKE	195 192
CONTRACT NO.			63640
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

NO.	DATE
BY	
NO. 13 BOOK	
NO. 14 BOOK	
NO. 15 BOOK	
NO. 16 BOOK	
NO. 17 BOOK	
NO. 18 BOOK	
NO. 19 BOOK	
NO. 20 BOOK	
NO. 21 BOOK	
NO. 22 BOOK	
NO. 23 BOOK	
NO. 24 BOOK	
NO. 25 BOOK	
NO. 26 BOOK	
NO. 27 BOOK	
NO. 28 BOOK	
NO. 29 BOOK	
NO. 30 BOOK	

NO.	DATE
BY	
NO. 13 BOOK	
NO. 14 BOOK	
NO. 15 BOOK	
NO. 16 BOOK	
NO. 17 BOOK	
NO. 18 BOOK	
NO. 19 BOOK	
NO. 20 BOOK	
NO. 21 BOOK	
NO. 22 BOOK	
NO. 23 BOOK	
NO. 24 BOOK	
NO. 25 BOOK	
NO. 26 BOOK	
NO. 27 BOOK	
NO. 28 BOOK	
NO. 29 BOOK	
NO. 30 BOOK	



800 STA. 14+50  
 TOPSOIL REMOVAL 210.2 SF  
 EARTH EXCAVATION 260.7 SF  
 790 EMBANKMENT 21.8 SF

**14 + 50.00**

800 STA. 14+00  
 TOPSOIL REMOVAL 206.3 SF  
 EARTH EXCAVATION 267.5 SF  
 790 EMBANKMENT 21.8 SF

**14 + 00.00**

800 STA. 13+50  
 TOPSOIL REMOVAL 208.3 SF  
 EARTH EXCAVATION 168.7 SF  
 790 EMBANKMENT 28.6 SF

**13 + 50.00**

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



USER NAME	eds
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PLOT SCALE	1"=20.0000' / 1"
PLOT DATE	2/2/2012

DESIGNED	MJP
DRAWN	MJP
CHECKED	DNM
DATE	02/06/12

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - POND & DEPRESSIONAL AREA

SCALE: 1"=10'V/20' H SHEET NO. 7 OF 9 SHEETS STA. 13+50.00 TO STA. 14+50.00

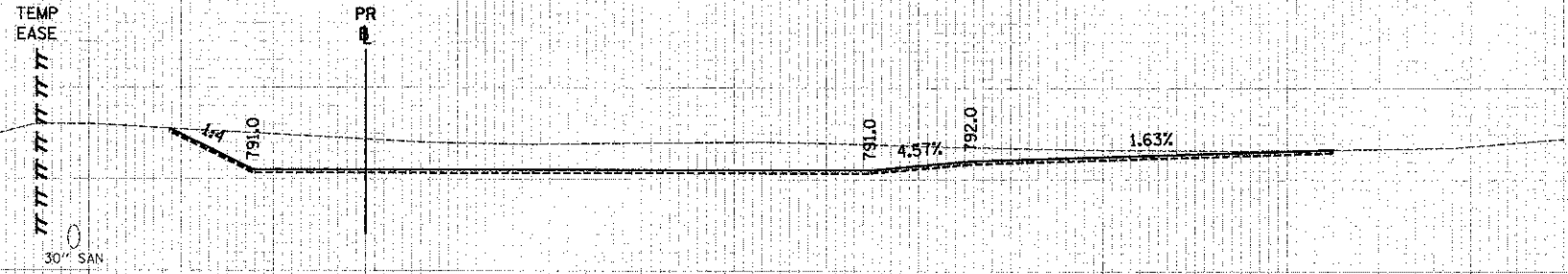
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS: NO.
198	00-00045-00-PV	LAKE	195 193
CONTRACT NO.			63640
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420

FINAL SURVEY	DATE
BY	
NO. OF SHEETS	
NO. OF PAGES	
NO. OF FIGURES	
NO. OF TABLES	
NO. OF VIEWS	
NO. OF SECTIONS	
NO. OF DETAILS	
NO. OF ENLARGEMENTS	
NO. OF REDUCTIONS	
NO. OF REVISIONS	

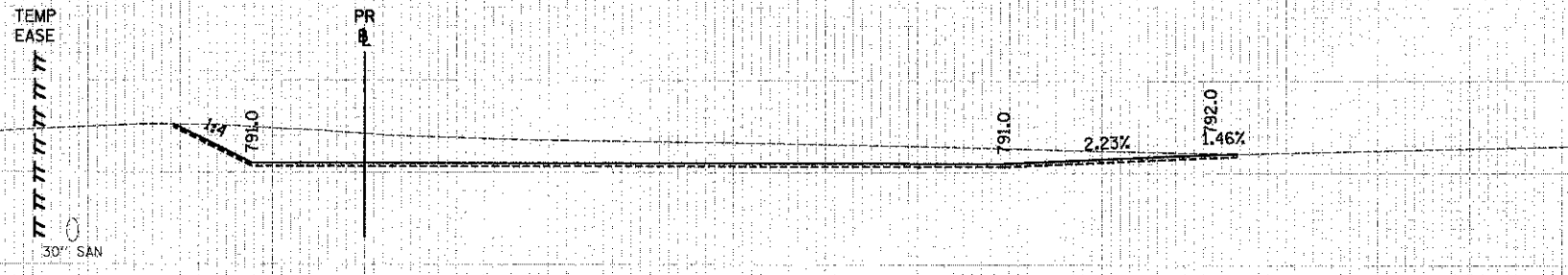
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BY	
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NO. OF PAGES	
NO. OF FIGURES	
NO. OF TABLES	
NO. OF VIEWS	
NO. OF SECTIONS	
NO. OF DETAILS	
NO. OF ENLARGEMENTS	
NO. OF REDUCTIONS	
NO. OF REVISIONS	

800 STA. 16+05  
 TOPSOIL REMOVAL 181.5 SF  
 EARTH EXCAVATION 447.6 SF  
 790 EMBANKMENT 0.0 SF  
**16 + 05.00**



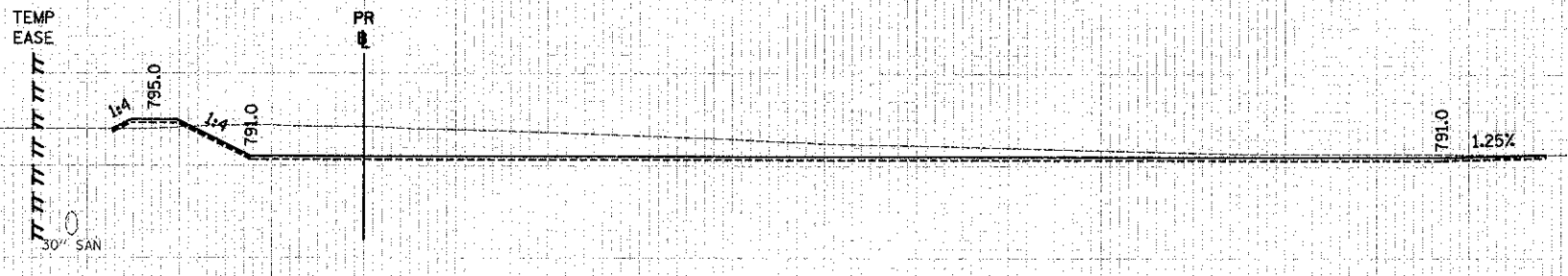
16 + 05.00

800 STA. 15+50  
 TOPSOIL REMOVAL 169.5 SF  
 EARTH EXCAVATION 387.4 SF  
 790 EMBANKMENT 0.0 SF  
**15 + 50.00**



15 + 50.00

800 STA. 15+00  
 TOPSOIL REMOVAL 224.7 SF  
 EARTH EXCAVATION 332.0 SF  
 790 EMBANKMENT 20.2 SF  
**15 + 00.00**



15 + 00.00

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



USER NAME	ede
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PLOT SCALE	28,8000' / in.
PLOT DATE	2/2/2012

DESIGNED	MJP	REVISED	-
DRAWN	MJP	REVISED	-
CHECKED	DNM	REVISED	-
DATE	02/06/12	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

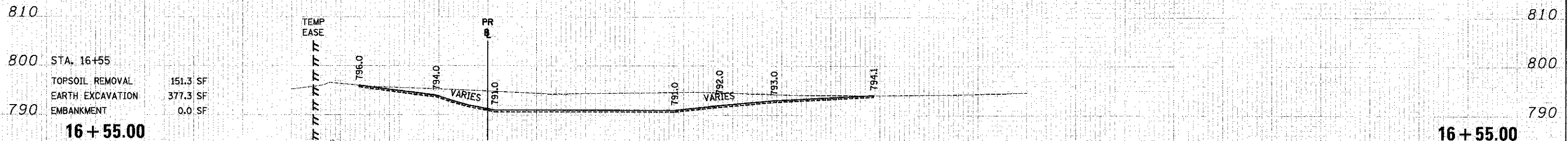
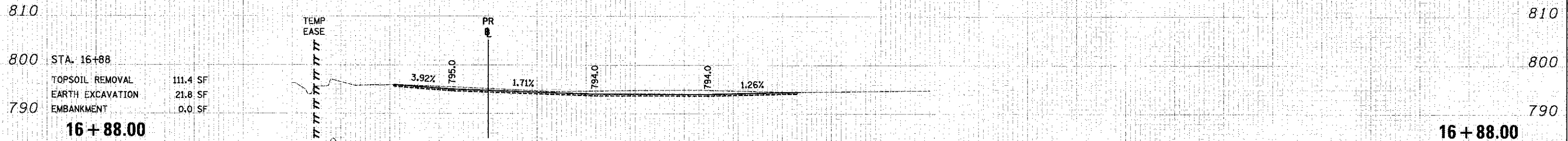
CROSS SECTIONS - POND & DEPRESSIONAL AREA

SCALE: 1"=10'V/20'H SHEET NO. 8 OF 9 SHEETS STA. 15+00.00 TO STA. 16+05.00

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
198	00-00045-00-PV	LAKE	195	194
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63640	

180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420

DATE	
BY	
APPROVED	
DATE	
BY	
APPROVED	
DATE	
BY	
APPROVED	
DATE	
BY	
APPROVED	
DATE	



180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420



USER NAME = eds	DESIGNED = MJP	REVISED =
FILE NAME = ... \2189-shh\shh\psand.dgn	DRAWN = MJP	REVISED =
PLOT SCALE = 20.0000' / 1" =	CHECKED = DNM	REVISED =
PLOT DATE = 2/2/2012	DATE = 02/06/12	REVISED =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - POND & DEPRESSIONAL AREA**

SCALE: 1"=10'V/20' H SHEET NO. 9 OF 9 SHEETS STA. 16+55.00 TO STA. 16+88.00

F.A.U. RTE. 198	SECTION 00-00045-00-PV	COUNTY LAKE	TOTAL SHEETS 195	SHEET NO. 195
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63640	