

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL INSTALL THE RADAR VEHICLE SENSOR SYSTEM ON THE EXISTING 16' POST OR AS DIRECTED BY THE AREA TRAFFIC ENGINEER.



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

FILE NAME :
TS32 - North7th-TS-Paradigm
Default

USER NAME = zwillsten
PLOT SCALE = 1:200
PLOT DATE = 8/7/2015

DESIGNED - JRD
DRAWN - ZCW
CHECKED - DPB
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

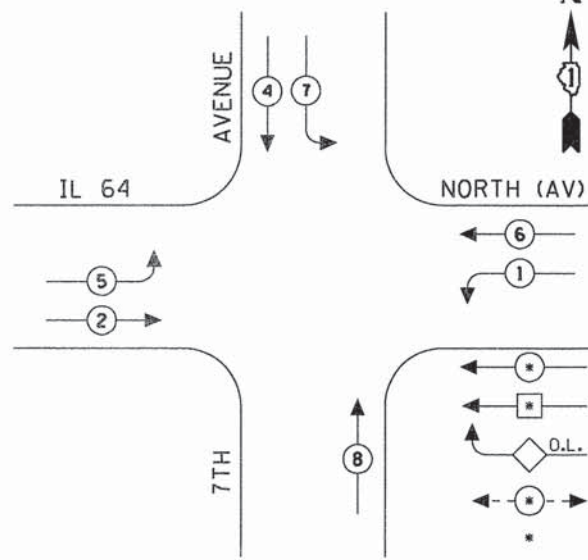
TRAFFIC SIGNAL MODIFICATION PLAN -
IL 64 (NORTH AV) 7TH AVENUE

SCALE: 1"=20' SHEET TS32 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00110-00-BT	COOK	155	101
CONTRACT NO. 61B78				
ILLINOIS FED. AID PROJECT				

TS #3005
GHA #4941.800

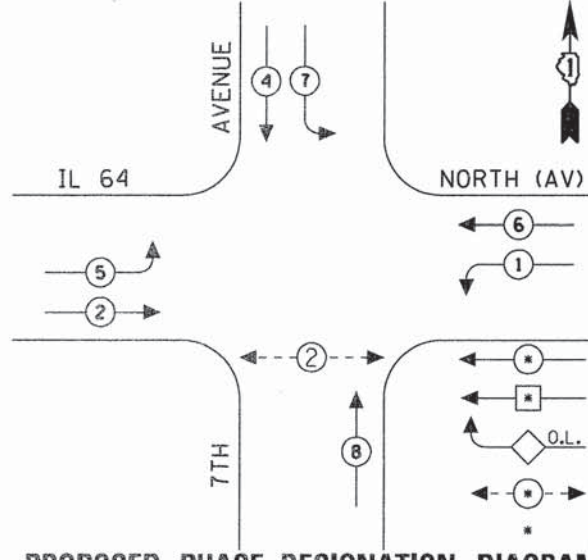
EXISTING CONTROLLER SEQUENCE



LEGEND
 * DUAL ENTRY PHASE
 □ SINGLE ENTRY PHASE
 O.L. OVERLAP
 ← • → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

EXISTING PHASE DESIGNATION DIAGRAM

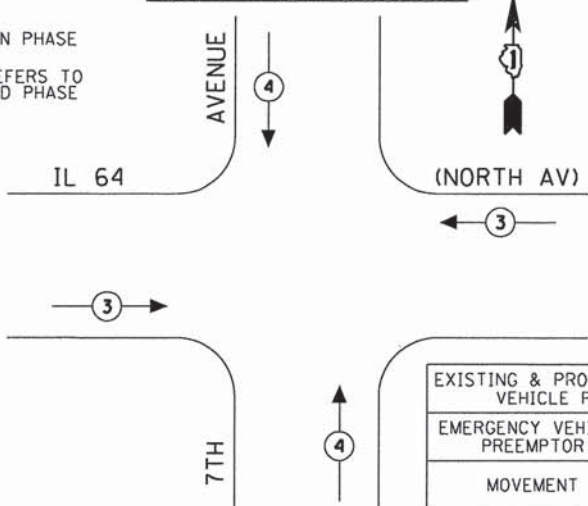
PROPOSED CONTROLLER SEQUENCE



LEGEND
 * DUAL ENTRY PHASE
 □ SINGLE ENTRY PHASE
 O.L. OVERLAP
 ← • → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

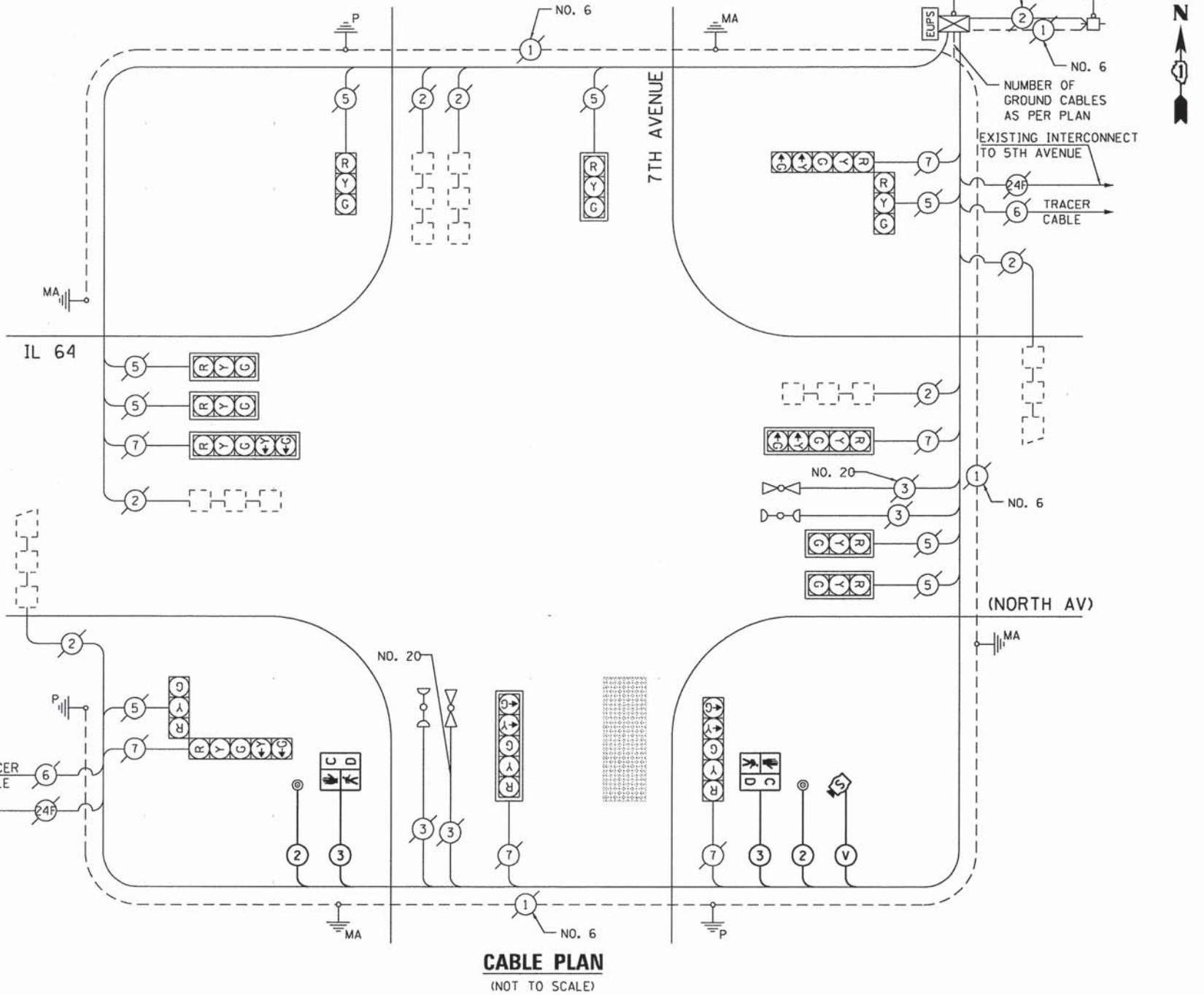
PROPOSED PHASE DESIGNATION DIAGRAM

EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ↑

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



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES
IL 64 (NORTH AV) AT 7TH AVENUE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	530	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
3.	548	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
4.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
5.	2	EACH	PEDESTRIAN PUSH-BUTTON
6.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
7.	1	EACH	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR
8.	1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL-1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE	
TYPE	NO LAMPS	WATTAGE		%OPERATION		
SIGNAL (RED)	14	135	17	0.50	119	
	(YELLOW)	14	135	25	0.25	87.5
	(GREEN)	14	135	15	0.25	52.5
ARROW	12	135	12	0.10	14.4	
PED. SIGNAL	2	90	25	1.00	50	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		84		0.05		
BATTERY BACKUP			25	1.00	25	
FLASHER		135	25	0.50		
ENERGY COSTS TO:				TOTAL =	448.4	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COM-ED LOWBARD



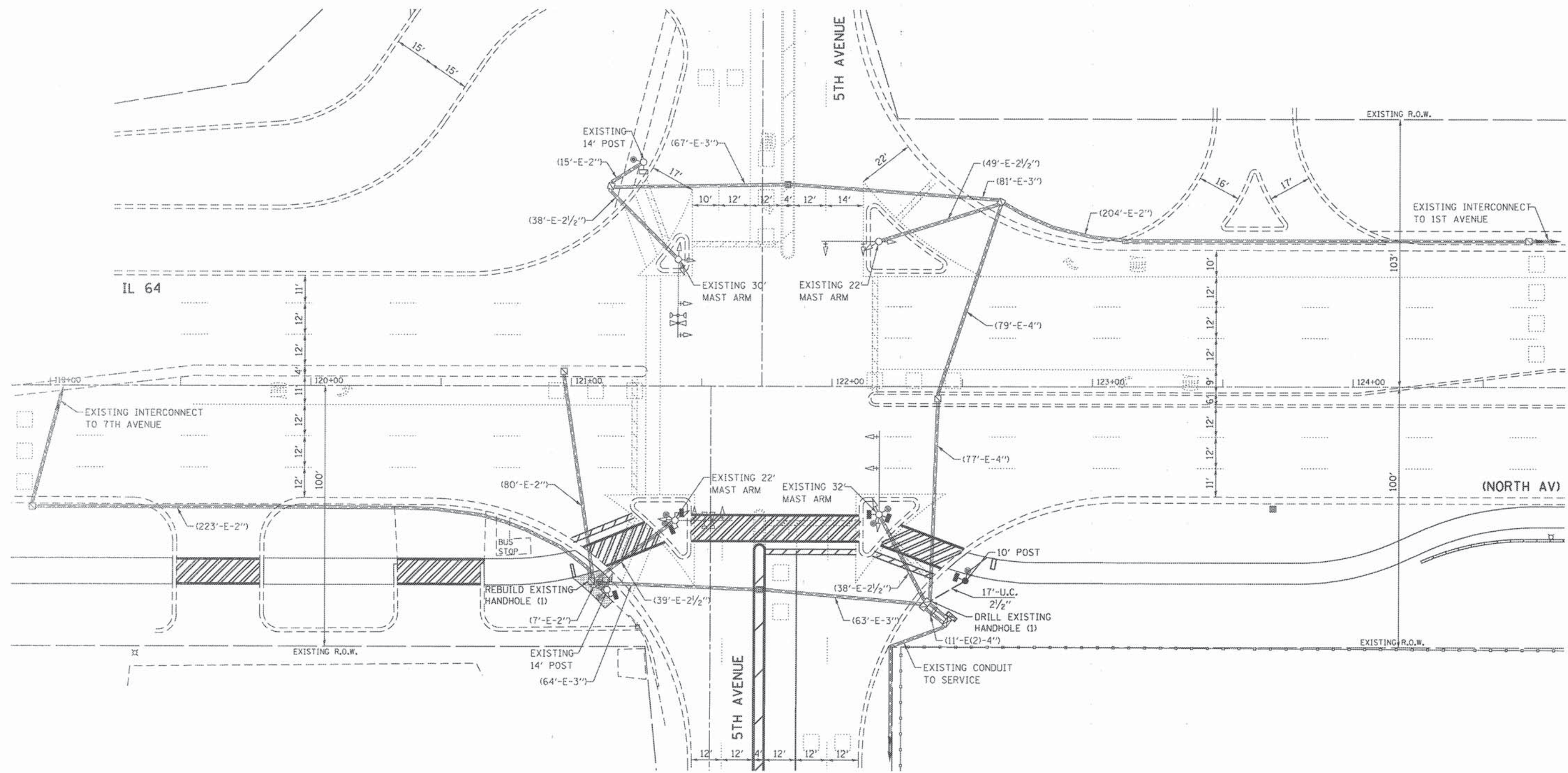
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NAME : 1533 - North7th-TS-Cable.dgn	USER NAME : zwojsten	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
		CHECKED - DPB	REVISED -
		DATE - 8/28/2015	REVISED -

SCALE: NONE	SHEET T533 OF T545 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00110-00-BT	COOK	155	102
			CONTRACT NO. 61B7B	
ILLINOIS FED. AID PROJECT				

TS #3005
GHA #4941.800



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

FILE NAME = TS34 - North5th-TS-Para.dgn	USER NAME = zwilintn	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
		CHECKED - DPB	REVISED -
		DATE -	REVISED -

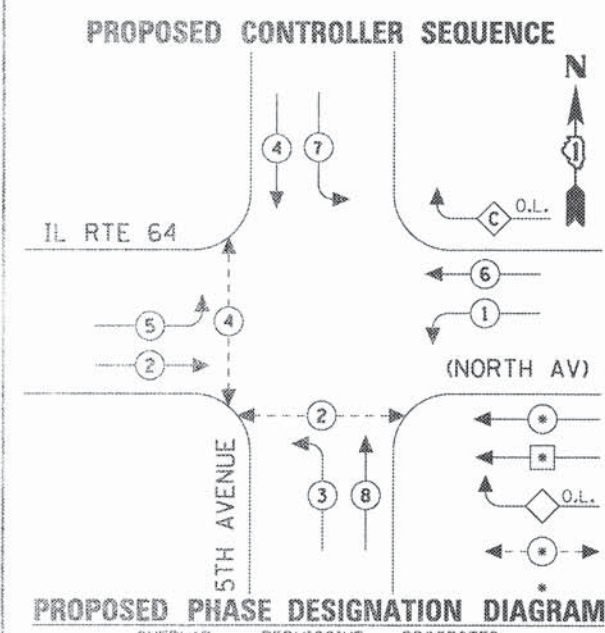
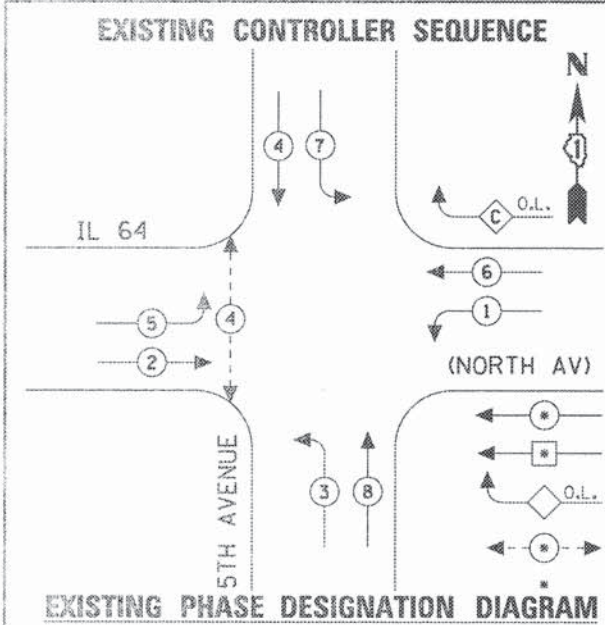
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN -
IL 64 (NORTH AV) AT 5TH AVENUE

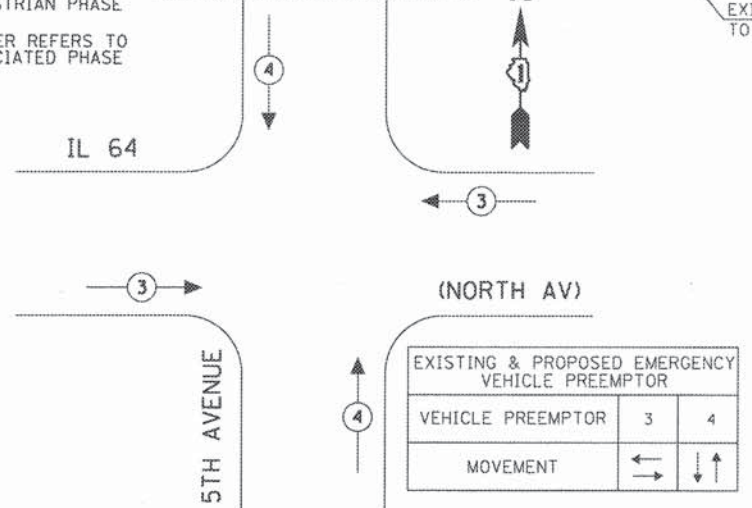
SCALE: 1"=20'
SHEET TS34 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00110-00-BT	COOK	155	103
CONTRACT NO. 61B78				
ILLINOIS FED. AID PROJECT				

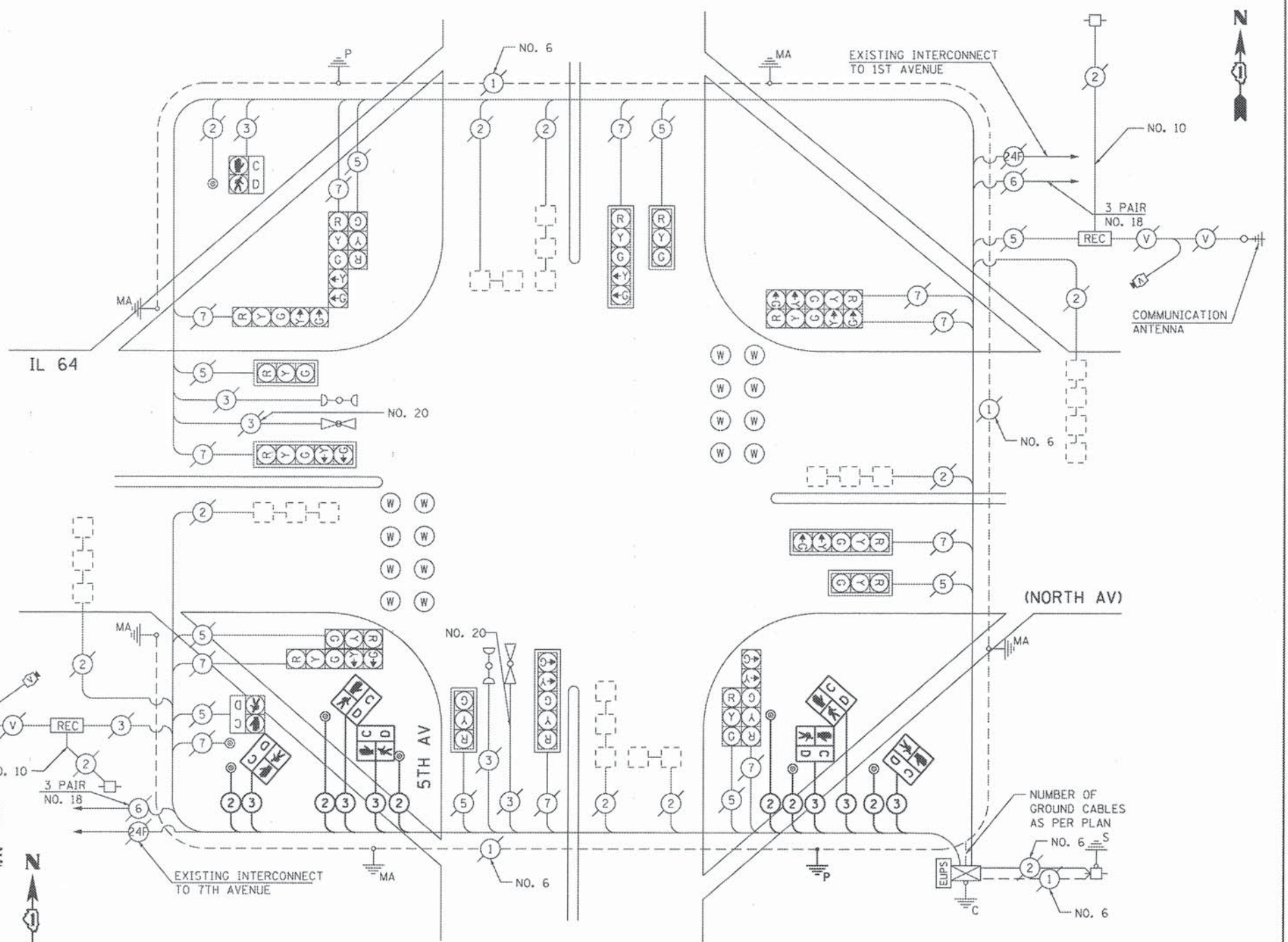
TS #3000
GHA #4941.800



EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



SCHEDULE OF QUANTITIES

IL 64 (NORTH AV) AT 5TH AVENUE

NO.	QUANT.	UNIT	DESCRIPTION
1.	17	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3.	820	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
4.	874	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
5.	36	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
7.	4	FOOT	CONCRETE FOUNDATION, TYPE A
8.	1	EACH	DRILL EXISTING HANDHOLE
9.	6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10.	6	EACH	PEDESTRIAN PUSH-BUTTON
11.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
12.	1	EACH	REBUILD EXISTING HANDHOLE
13.	1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL-1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE		OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	17	135	17	0.50	144.5
(YELLOW)	17	135	25	0.25	106.25
(GREEN)	17	135	15	0.25	63.75
ARROW	20	135	12	0.10	24
PEDESTRIAN SIGNAL	6	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
BATTERY BACKUP	1		25	1.00	25
FLASHER		135	25	0.50	
ENERGY COSTS TO:					TOTAL = 613.5

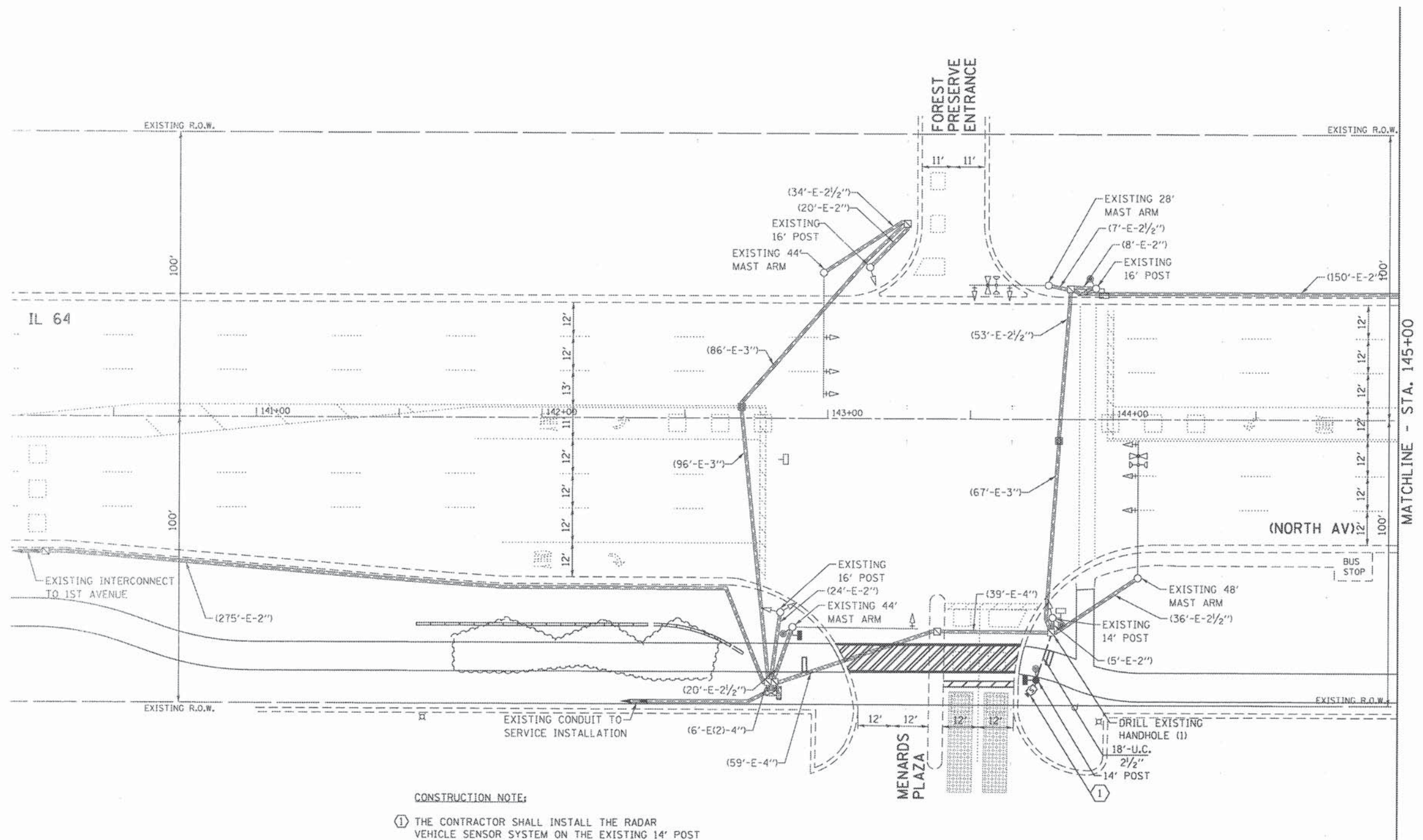
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: JOE STACHO
PHONE: (630) 424-5704
COMPANY: COM-ED LOMBARD

FILE NAME +	USER NAME + zwoilsten	DESIGNED - JRD	REVISED -
ES35 - North5th-TS-Cable.dgn		DRAWN - ZCW	REVISED -
		CHECKED - DPB	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL RTE 64 (NORTH AV) AT 5TH AVENUE		08-00110-00-BT	COOK	155	104
SCALE: NONE	SHEET TS35 OF TS45 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

TS #3000
GHA #4941.800
CONTRACT NO. 61B78



CONSTRUCTION NOTE:
 ① THE CONTRACTOR SHALL INSTALL THE RADAR VEHICLE SENSOR SYSTEM ON THE EXISTING 14' POST OR AS DIRECTED BY THE AREA TRAFFIC ENGINEER.



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

FILE NAME =	USER NAME = zwallsten	DESIGNED - JRD	REVISED -
TS36-37 - NorthMenards Plaza-TS-Parade		DRAWN - ZCW	REVISED -
Defaults	PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
	PLOT DATE = 8/7/2015	DATE -	REVISED -

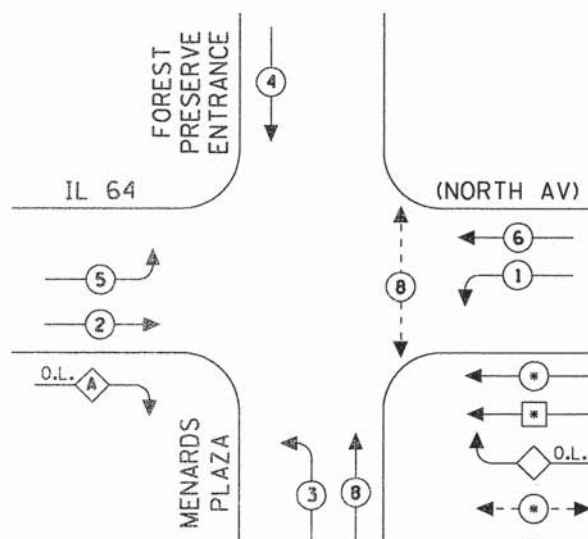
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN -
 IL 64 (NORTH AV) AT MENARDS PLAZA /FOREST PRESERVE ENTRANCE
 SCALE: 1"=20' SHEET TS36 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00110-00-BT	COOK	155	105
CONTRACT NO. 61B78			ILLINOIS FED. AID PROJECT	

TS #11965
 GHA #4941.800

EXISTING CONTROLLER SEQUENCE

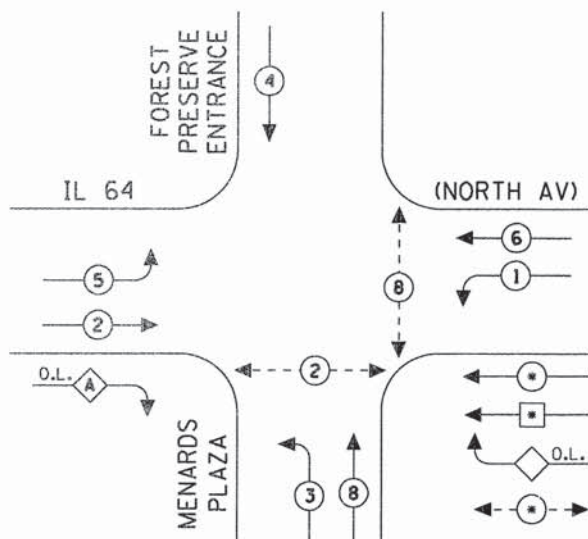


LEGEND
 * DUAL ENTRY PHASE
 □ SINGLE ENTRY PHASE
 ◇ O.L. OVERLAP
 ← * → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

EXISTING PHASE DESIGNATION DIAGRAM

OVERLAP LETTER A = PERMISSIVE PHASE 2 + PROTECTED PHASE 3

PROPOSED CONTROLLER SEQUENCE

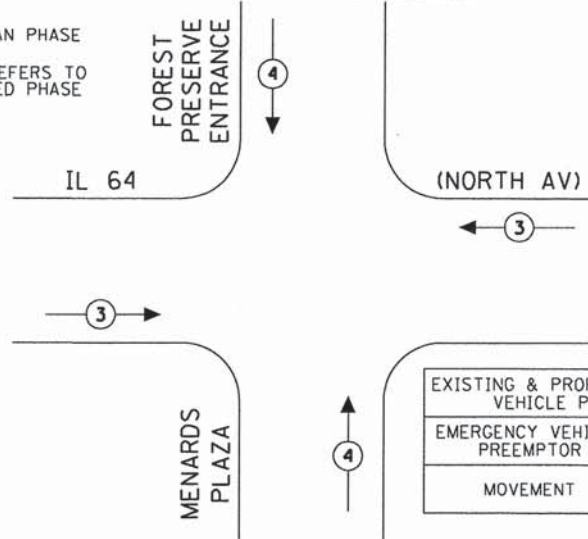


LEGEND
 * DUAL ENTRY PHASE
 □ SINGLE ENTRY PHASE
 ◇ O.L. OVERLAP
 ← * → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED PHASE DESIGNATION DIAGRAM

OVERLAP LETTER A = PERMISSIVE PHASE 2 + PROTECTED PHASE 3

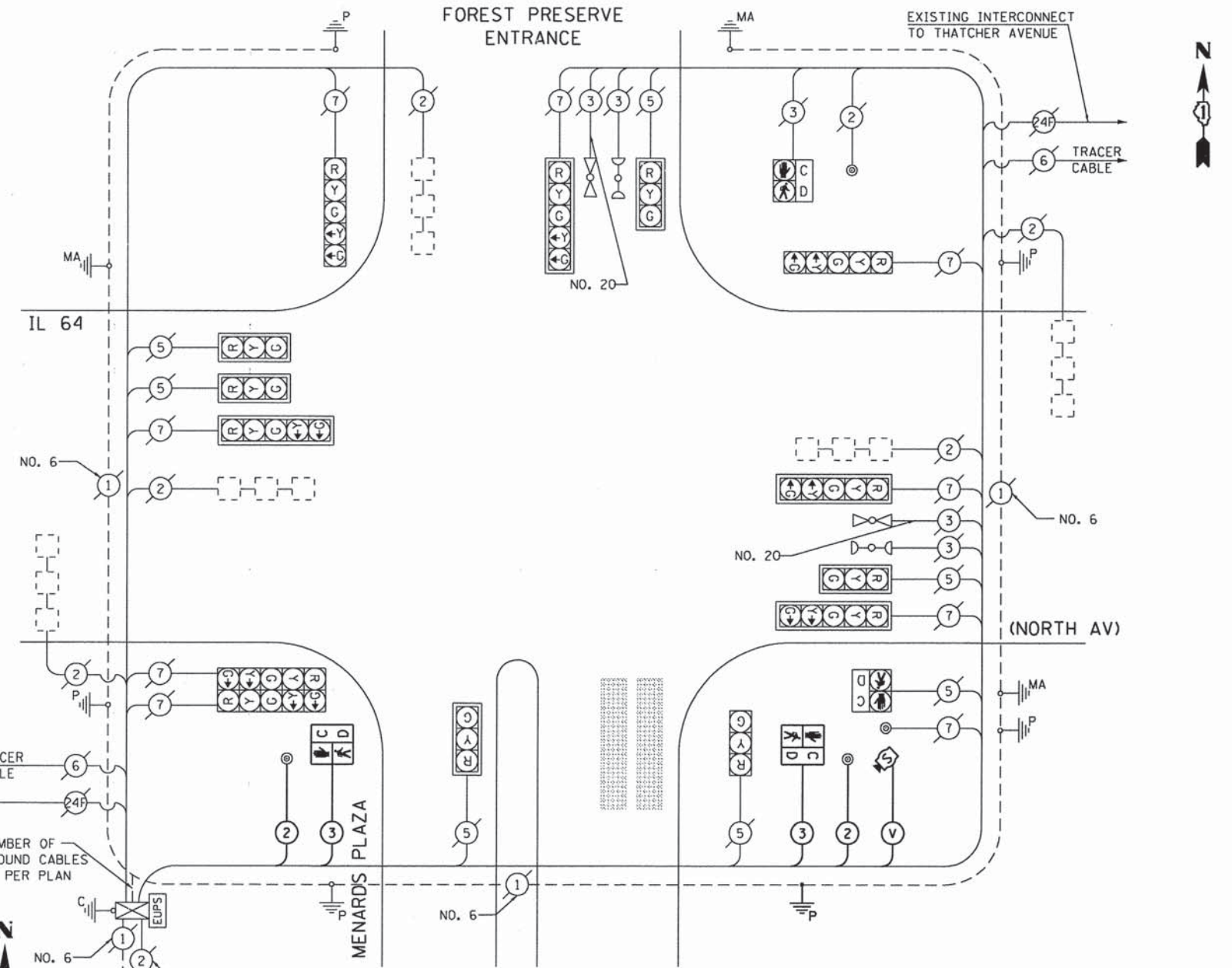
EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↑ ↓

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

FOREST PRESERVE ENTRANCE



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES
IL 64 (NORTH AV) AT POLK PLAZA / FOREST PRESERVE ENTRANCE

NO.	QUANT.	UNIT	DESCRIPTION
1.	18	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3.	185	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
4.	203	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
5.	30	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
7.	4	FOOT	CONCRETE FOUNDATION, TYPE A
8.	1	EACH	DRILL EXISTING HANDHOLE
9.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10.	2	EACH	PEDESTRIAN PUSH-BUTTON
11.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
12.	1	EACH	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR
13.	1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL-1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE	
TYPE	NO LAMPS	WATTAGE		%OPERATION		
SIGNAL (RED)	14	135	17	0.50	119	
	(YELLOW)	14	135	25	0.25	87.5
	(GREEN)	14	135	15	0.25	52.5
ARROW	16	135	12	0.10	19.2	
PED. SIGNAL	2	90	25	1.00	50	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		84		0.05		
BATTERY BACKUP	1		25	1.00	25	
FLASHER		135	25	0.50		
ENERGY COSTS TO:					TOTAL = 503.2	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: JOE STACHD
 PHONE: (630) 424-5704
 COMPANY: COM-ED LOMBARD



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NAME = TS38 - NorthMenards Plaza-TS-Cable.dgn	USER NAME = zvollsten	DESIGNED - JRD	REVISED -
PLOT SCALE = 1:20	CHECKED - DPB	REVISIONS -	REVISIONS -
PLOT DATE = 8/20/2015	DATE -	REVISIONS -	REVISIONS -

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 64 (NORTH AV) AT MENARDS PLAZA / FOREST PRESERVE ENTRANCE			08-00110-00-BT	COOK	155	107
SCALE: NONE		SHEET TS38 OF TS45 SHEETS		STA.	TO STA.	
					ILLINOIS FED. AID PROJECT	

TS #11965
GHA #4941.800

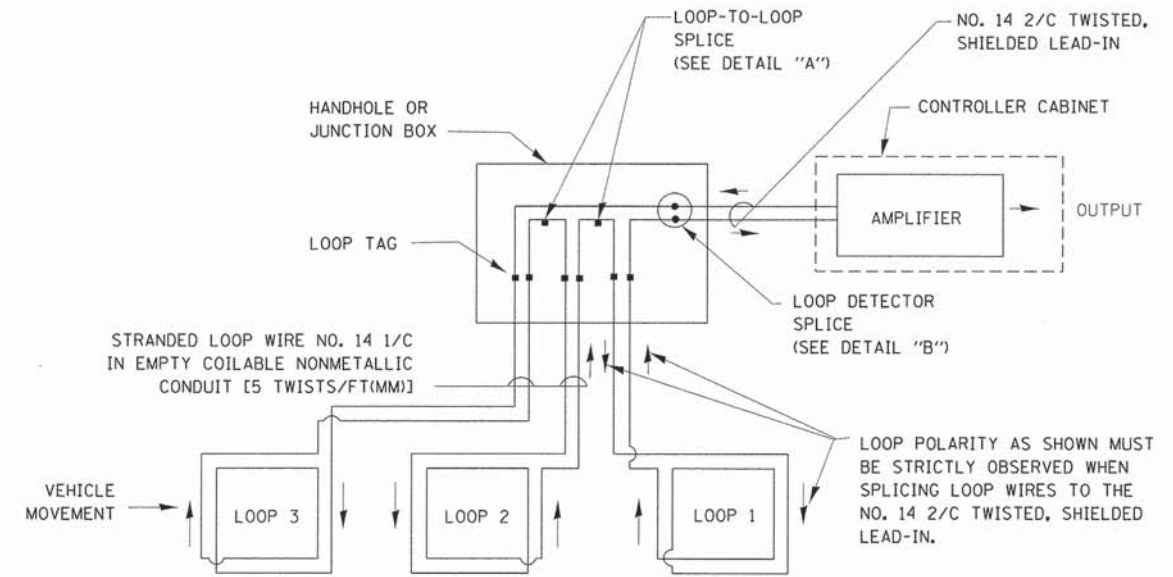
CONTRACT NO. 61B78

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																					
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																					
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																					
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																					
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																					
SIGNAL POST				REMOVE ITEM	R			SIGNAL POST AND FOUNDATION TO BE REMOVED																					
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			INTERSECTION & SAMPLING (SYSTEM) DETECTOR																					
GUY WIRE				ABANDON ITEM	A			SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				QUEUE DETECTOR																					
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PREFORMED QUEUE DETECTOR																					
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR																					
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				<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																													
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL																									
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																									
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																									
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																									
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																									
DETECTOR LOOP, TYPE I				RADIO REPEATER																									
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																									
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																									
VIDEO DETECTION CAMERA																													
VIDEO DETECTION ZONE																													
PAN, TILT, ZOOM CAMERA																													
WIRELESS DETECTOR SENSOR																													
WIRELESS ACCESS POINT																													

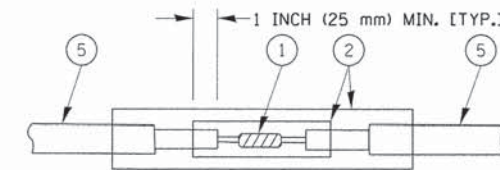
LOOP DETECTOR NOTES

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.

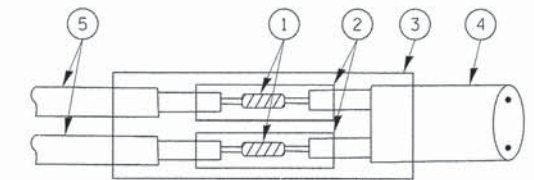


DETECTOR LOOP WIRING SCHEMATIC

- 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.



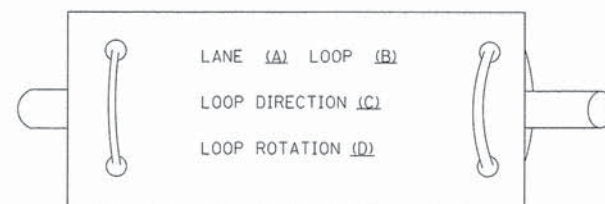
DETAIL "A"
LOOP-TO-LOOP SPLICE



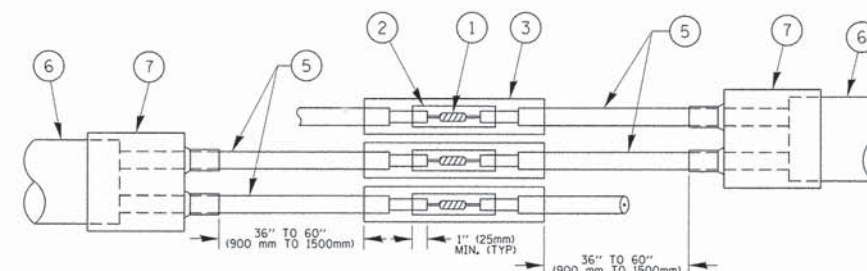
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

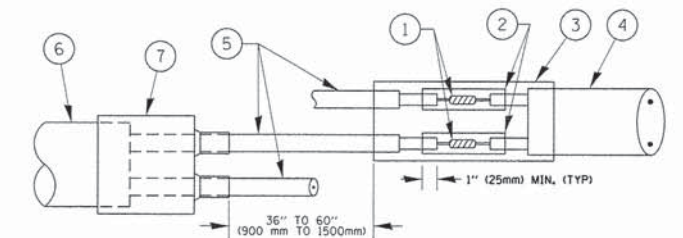
LOOP LEAD-IN CABLE TAG



- 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.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 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

FILE NAME = TS39-45 - D1-Detail-TS-05.dgn	USER NAME = zwallsten	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
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		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

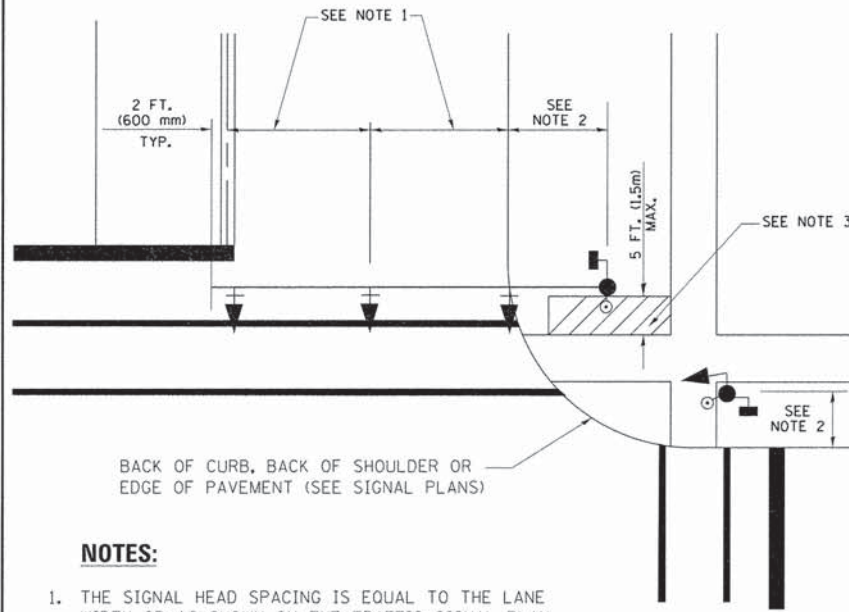
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET TS40 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-0010-00-BT	COOK	155	109
TS-05			CONTRACT NO. 61878	
ILLINOIS FED. AID PROJECT				

GHA #4941,800

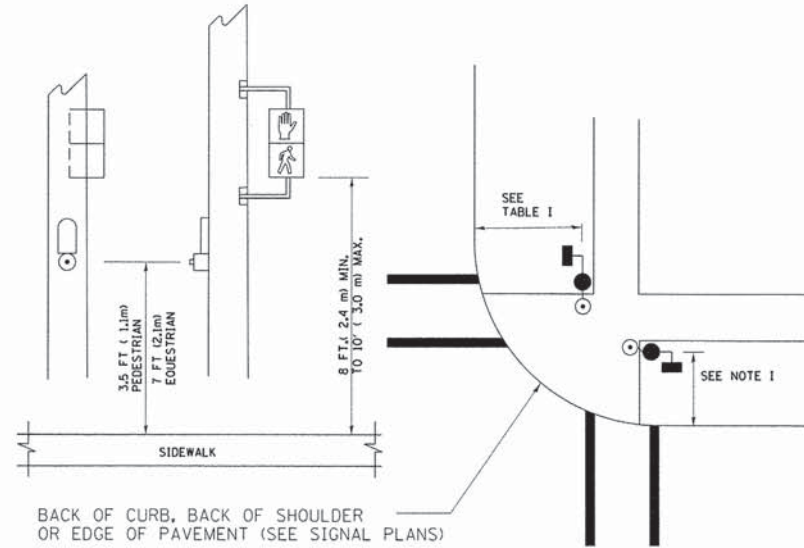
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

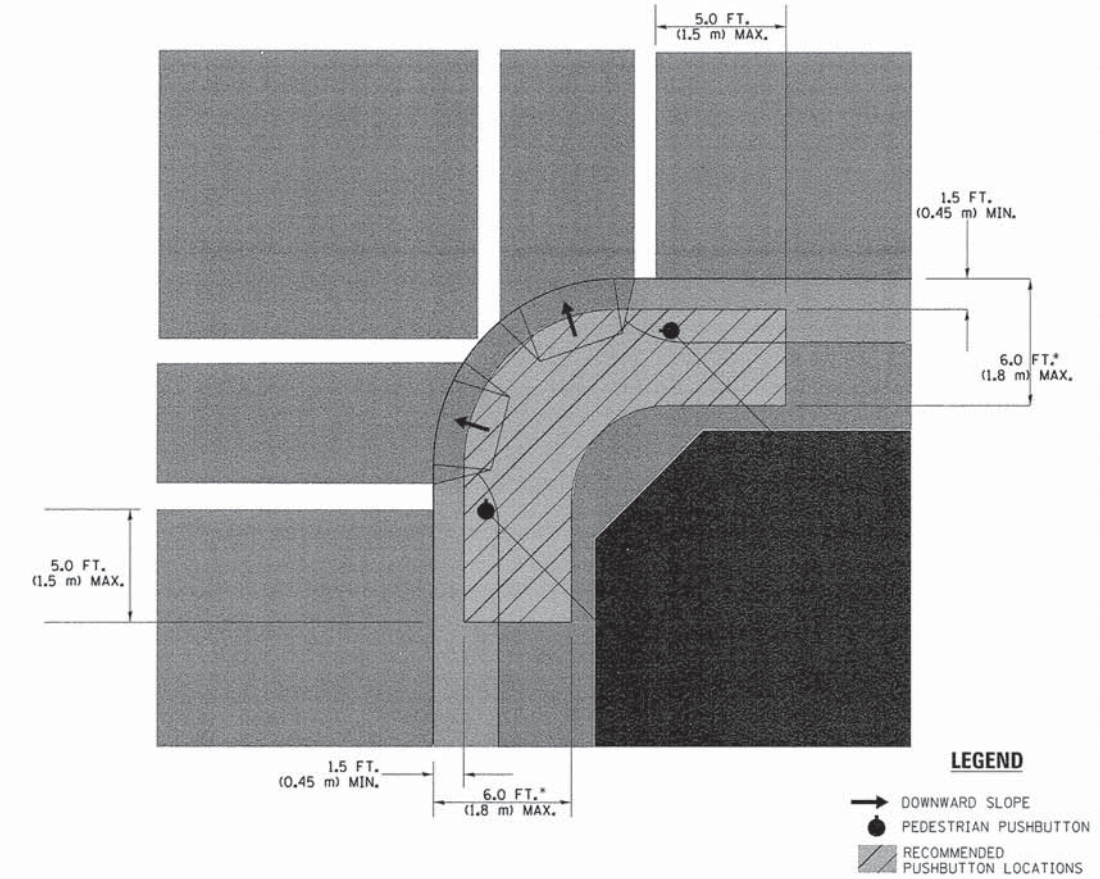
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



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 EFFECT 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.

FILE NAME = TS39-45 - D1-Detail-TS-05.dgn	USER NAME = zwallsten	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

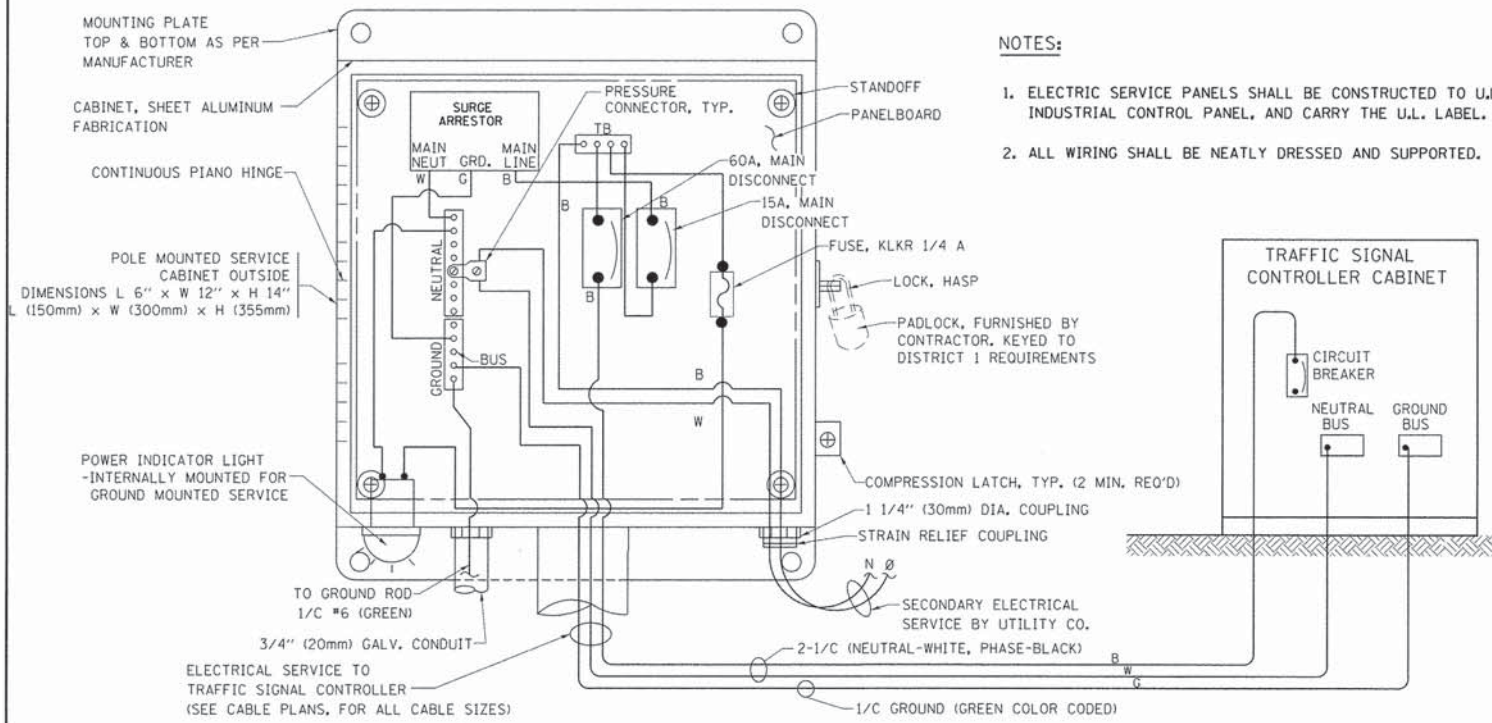
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

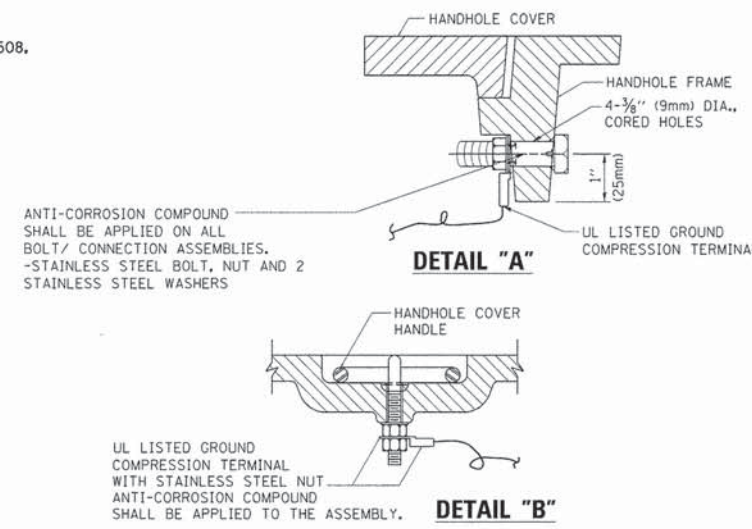
SCALE: NONE SHEET TS41 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-0010-00-BT	COOK	155	110
TS-05			CONTRACT NO. 61878	
ILLINOIS FED. AID PROJECT				

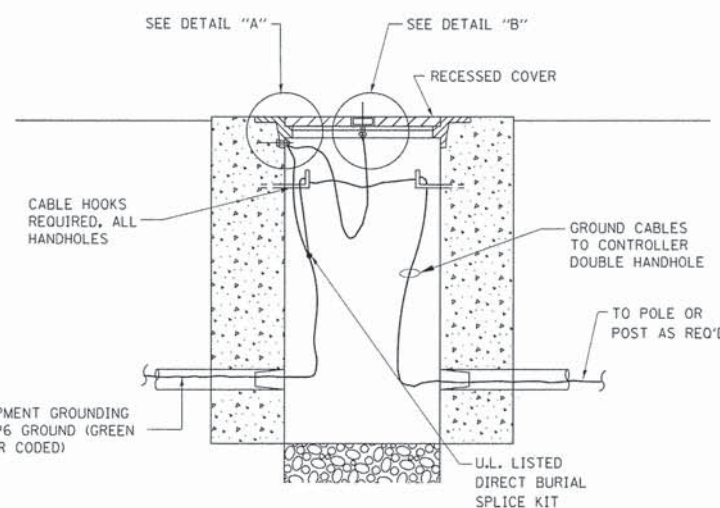
GHA #4941800



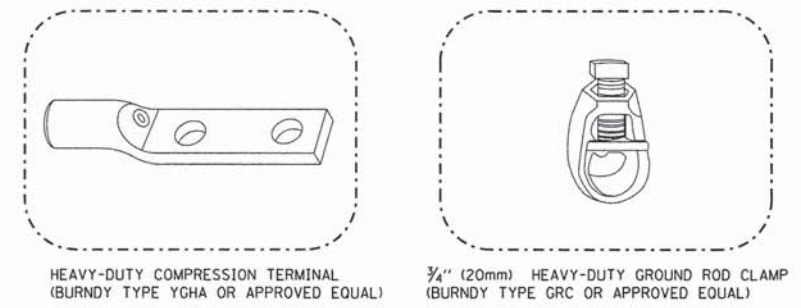
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



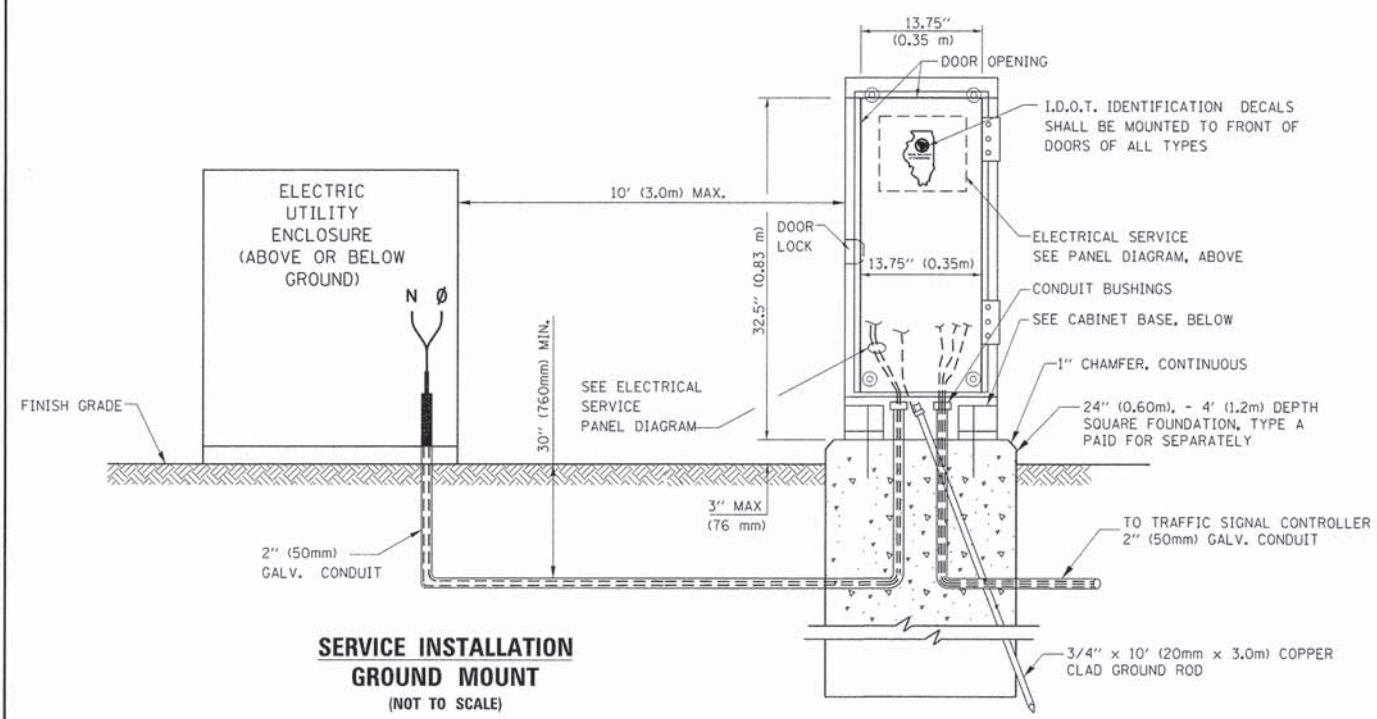
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED 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.



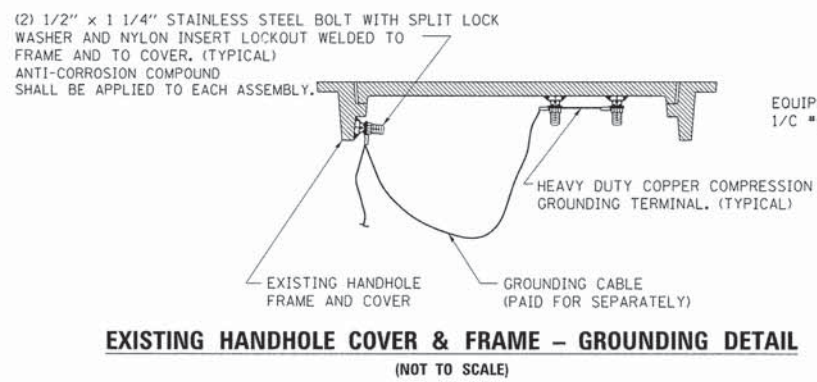
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



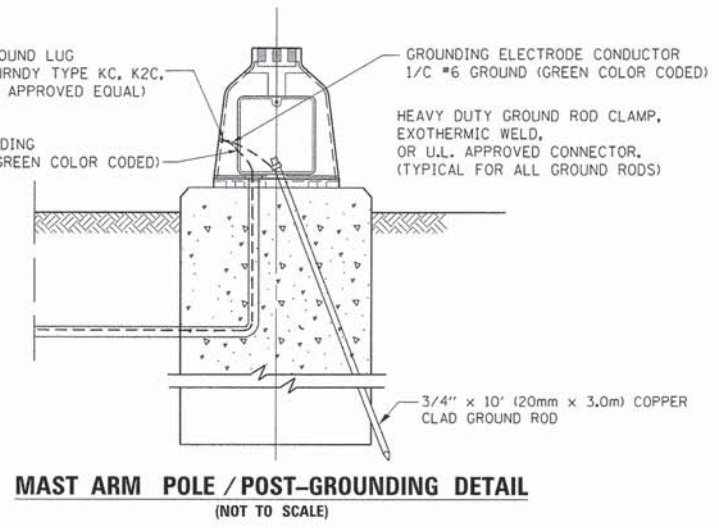
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

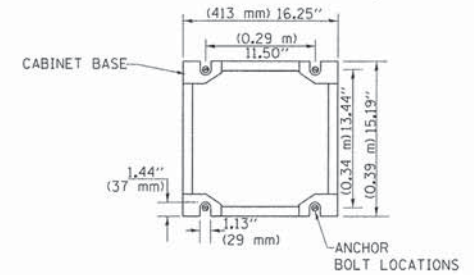


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



FILE NAME = TS39-45 - DI-Details-TS-05.dgn	USER NAME = zwillsten	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

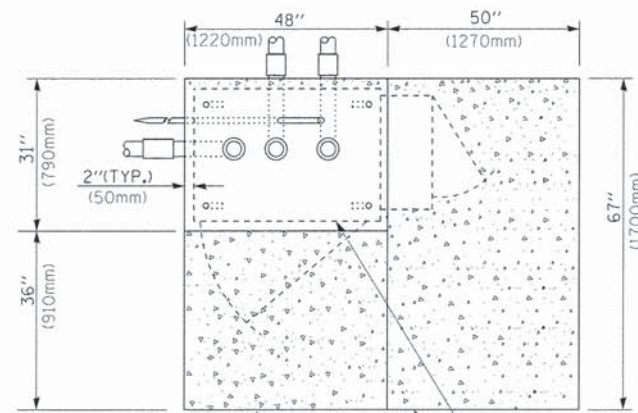
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

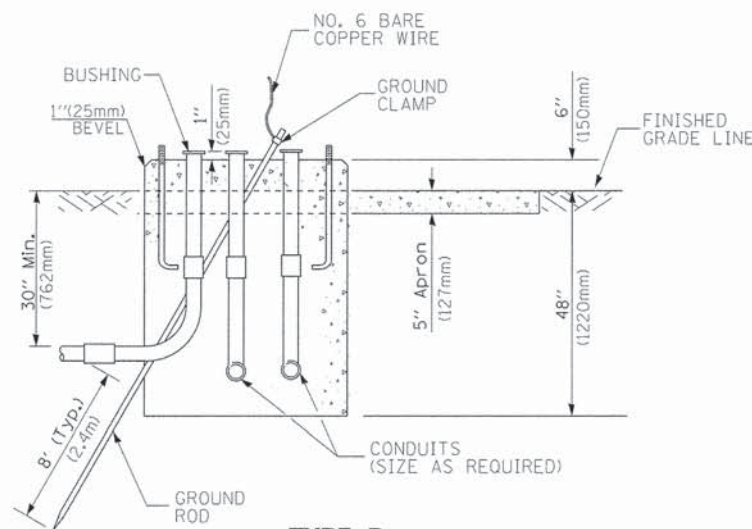
SCALE: NONE SHEET TS42 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-0010-00-BT	COOK	155	III
TS-05			CONTRACT NO. 61B78	
ILLINOIS FED. AID PROJECT				

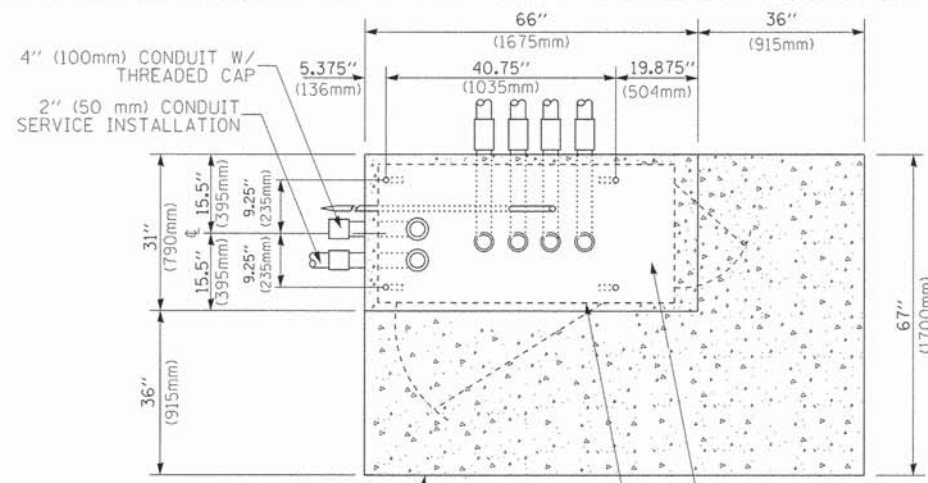
GHA #4941.800



TOP VIEW



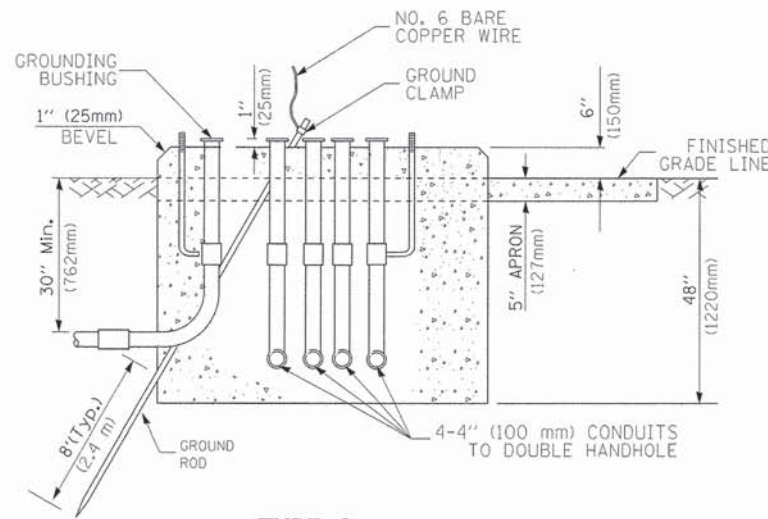
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



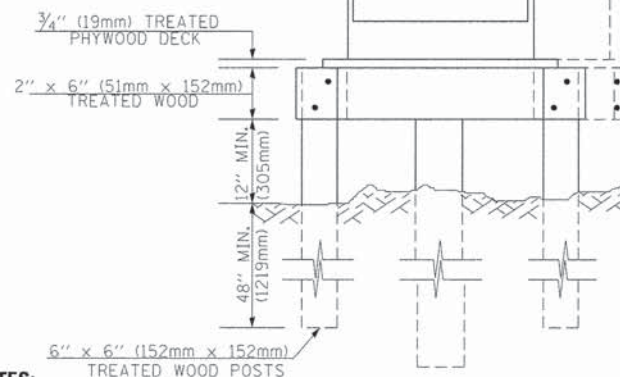
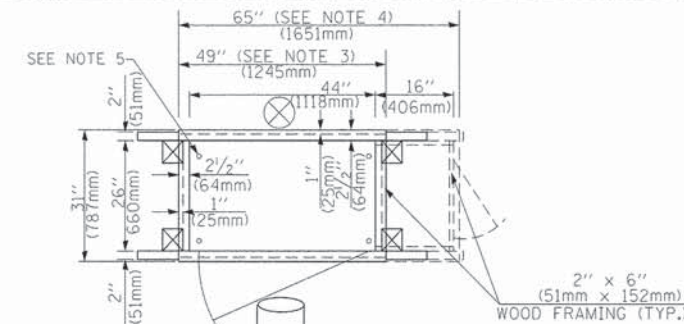
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE.



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. 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.
2. 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.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. 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.
6. 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)

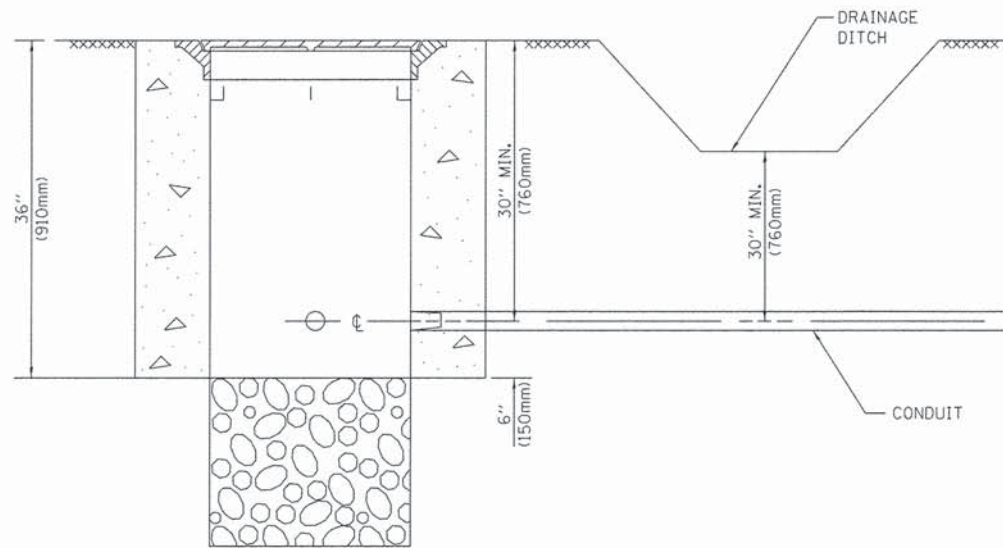
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	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 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. 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.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

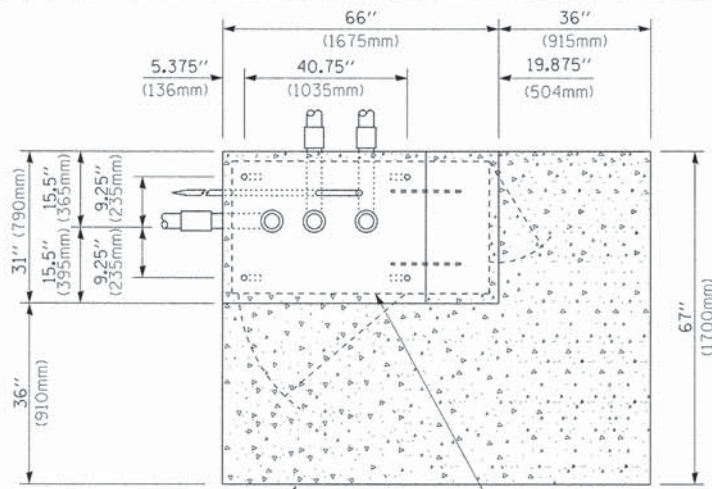
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



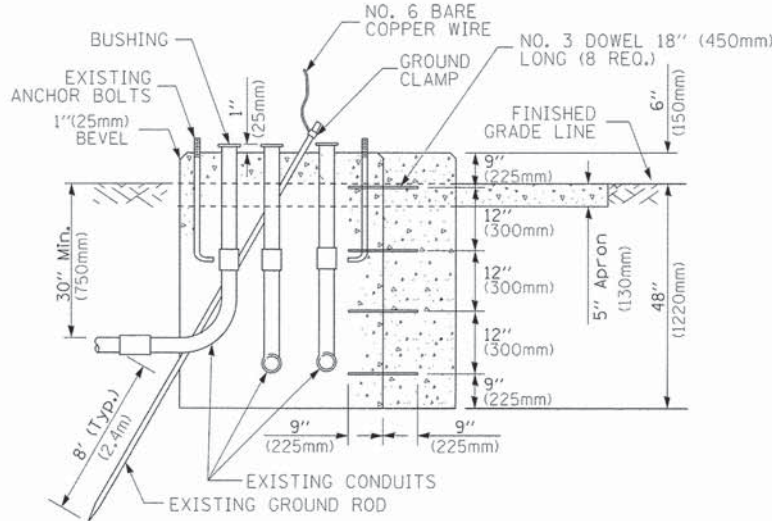
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

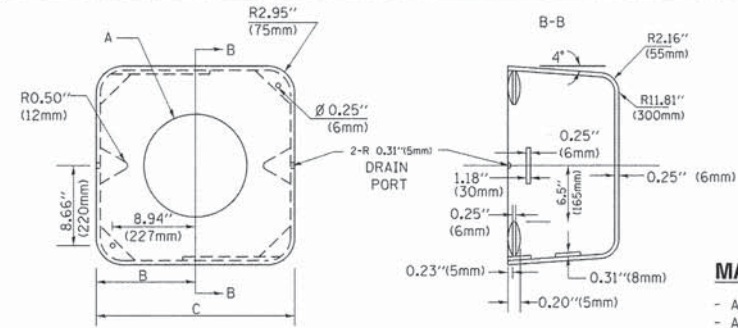
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 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)

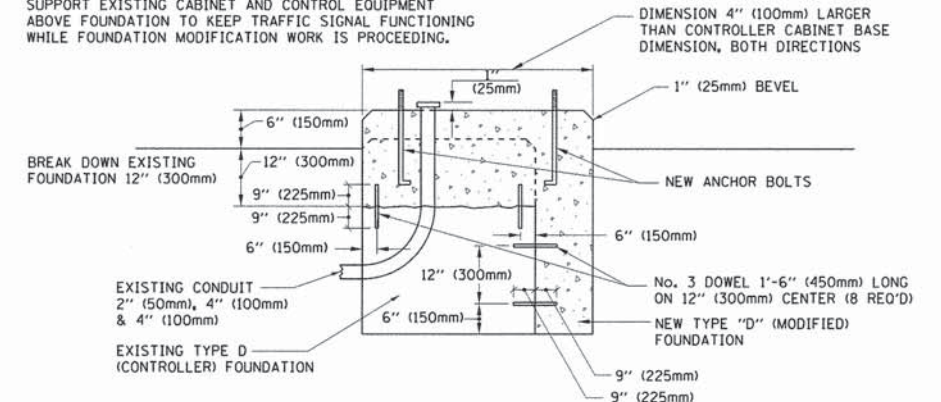
SHROUD

NOTES:

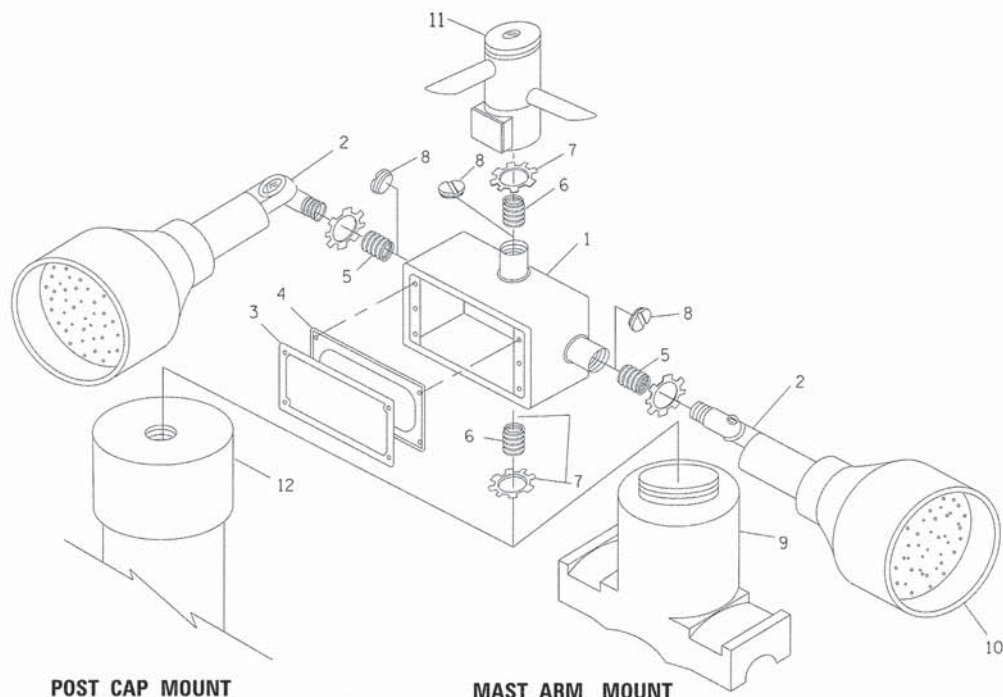
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



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.]

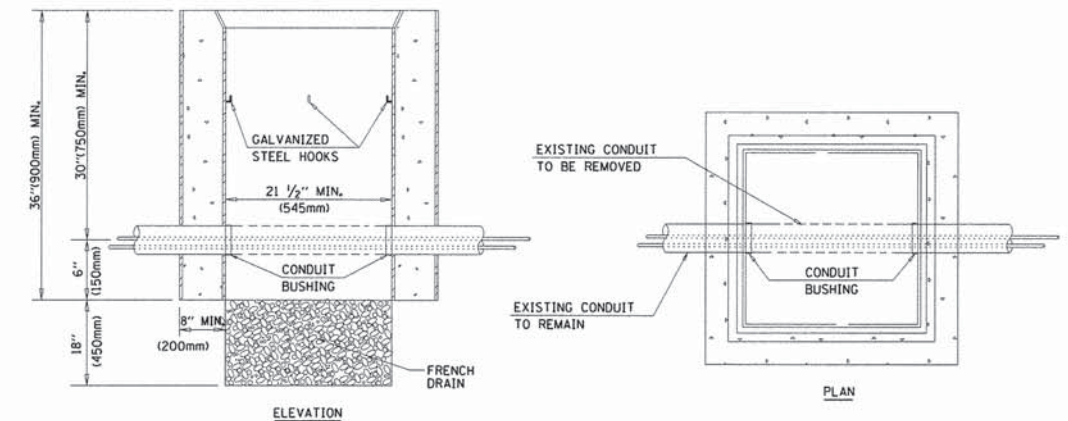
NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. 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
3. 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.

POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME = TS39-45 - 01-Detail-TS-05.dgn	USER NAME = zwellston	DESIGNED - DAD	REVISED - DAG 1-1-14
		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

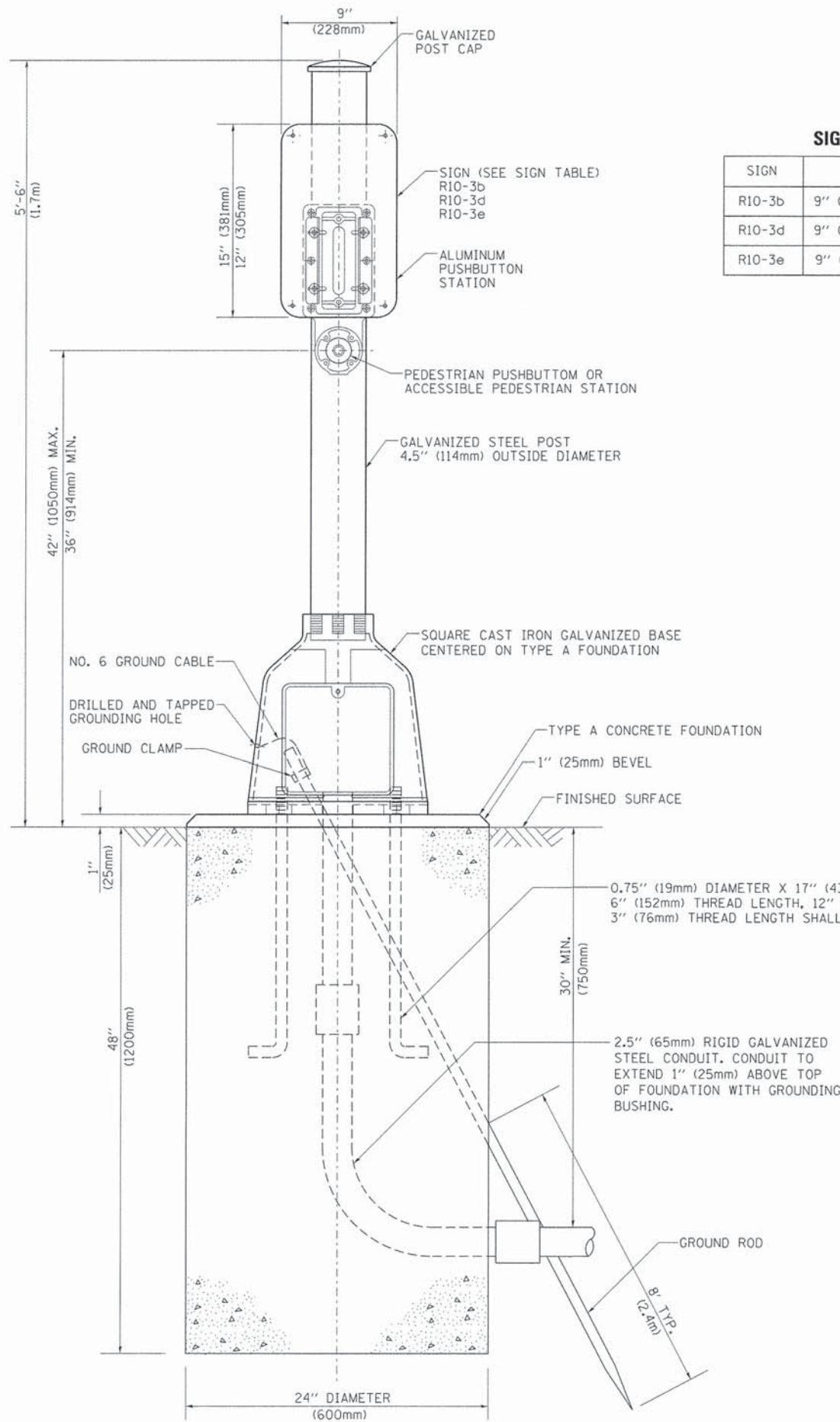
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET TS44 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-0010-00-BT	COOK	155	#3
	TS-05			
				CONTRACT NO. 61B78

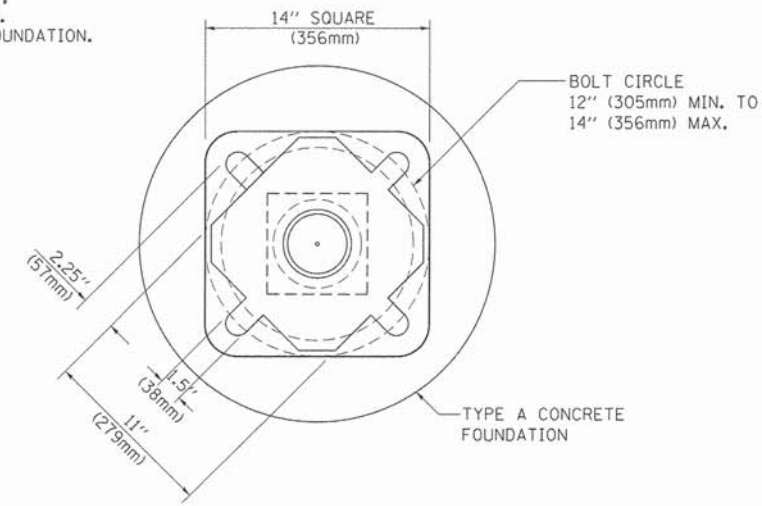
GHA #4941.800

ILLINOIS FED. AID PROJECT



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME = TS39-45 - D1-Detail-TS-05.dgn	USER NAME = zwallsten	DESIGNED - DAG	REVISED - DAG 1-1-14
		DRAWN - GND	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10/1/2012	REVISED -

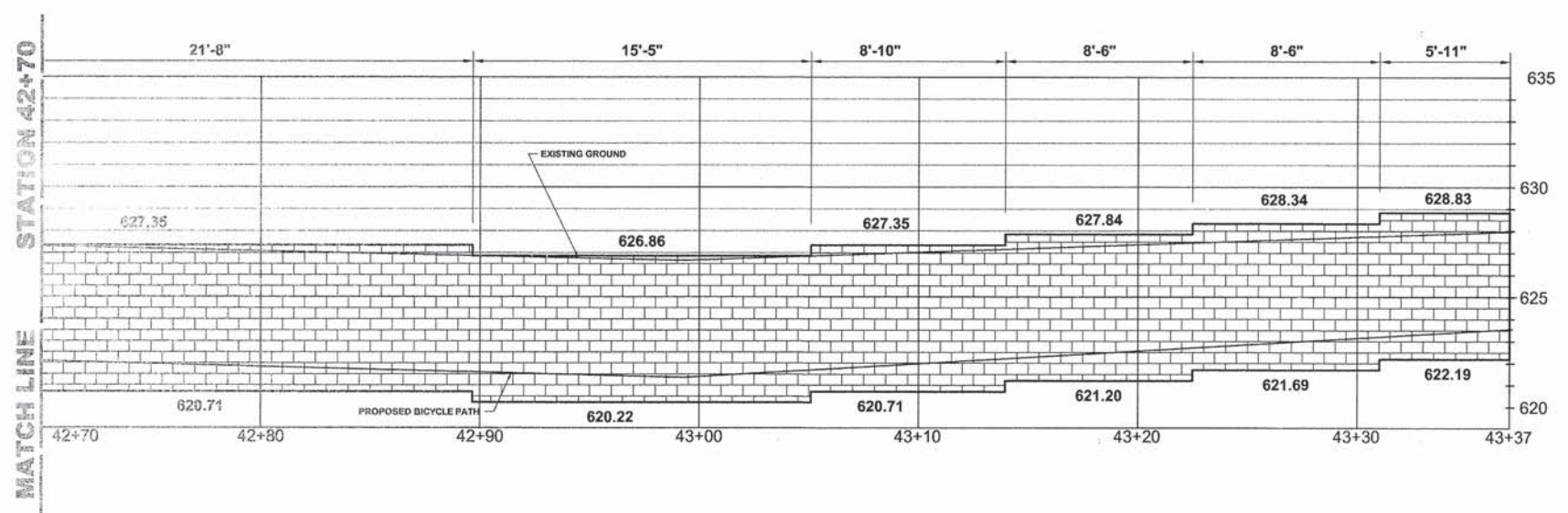
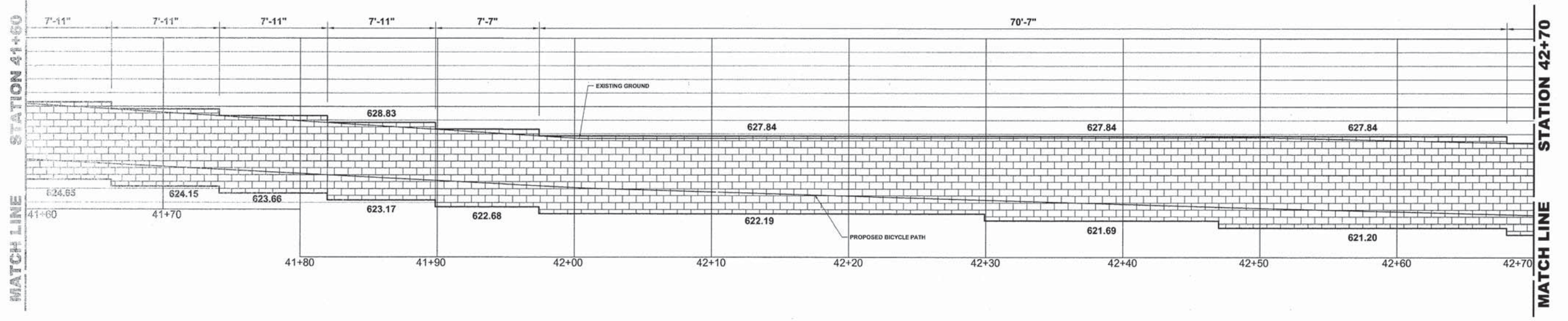
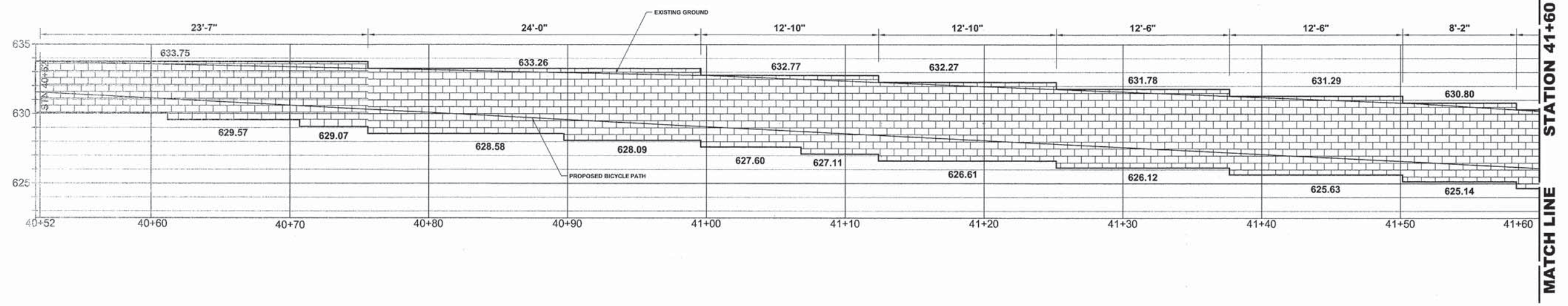
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET TS45 OF TS45 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-0010-00-BT	COOK	155	114
TS-05			CONTRACT NO. 61B78	
ILLINOIS FED. AID PROJECT				

GHA #4941.800



ELEVATION RETAINING WALL #1

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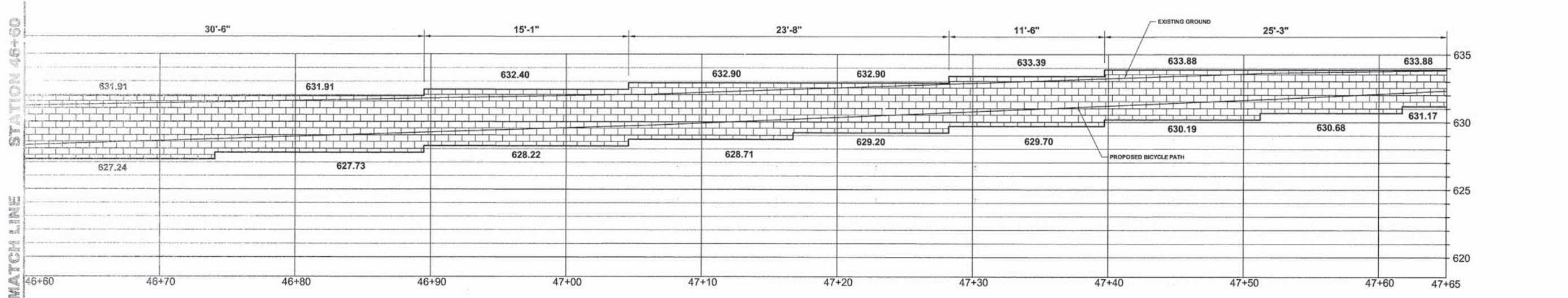
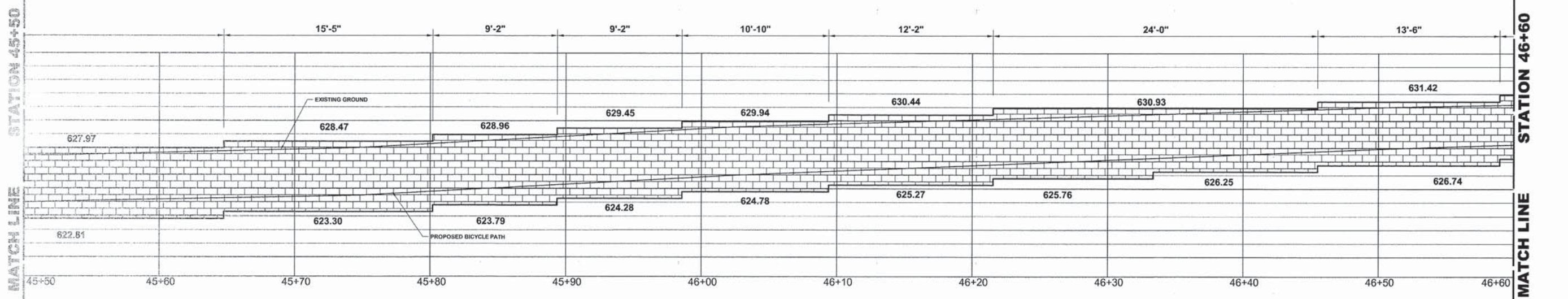
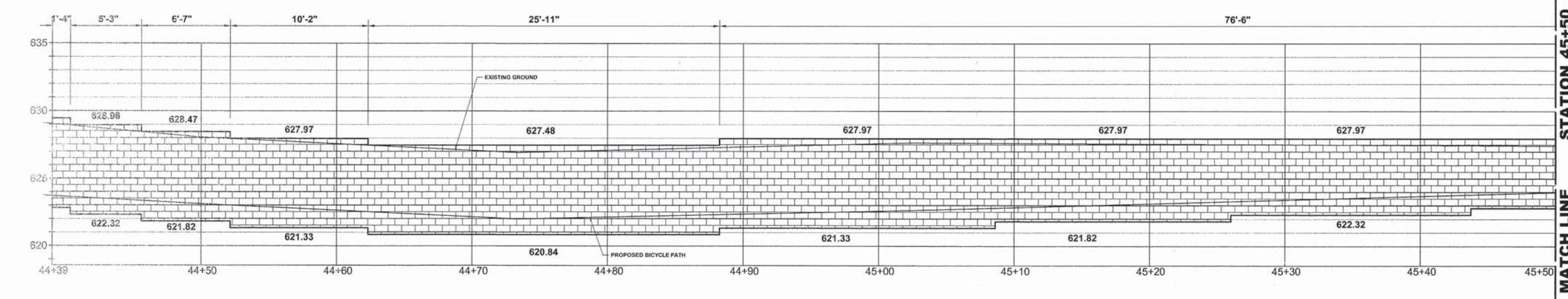
DESIGNED - WOP	REVISED - 8-4-15 I.D.O.T. DMM
DRAWN - DMM, MK	REVISED -
CHECKED - JGG	REVISED -
DATE - 3-6-15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SEGMENTAL CONCRETE BLOCK WALL DETAILS				
SCALE: 1"=4'H; 1"=4'V	SHEET NO.	OF SHEETS	STA.	TO STA.

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	115
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing for: \\projects\by_village\mehness_pur\0601242 - North Ave Commuter Bicycle Path\115-119 Wall Detail.dwg
 Aug 03, 2015 - 4:11 pm



ELEVATION RETAINING WALL #2

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DESIGNED - WOP	REVISED - 8-4-15 I.D.O.T. DMM
DRAWN - DMM, MK	REVISED -
CHECKED - JGG	REVISED -
DATE - 3-6-15	REVISED -

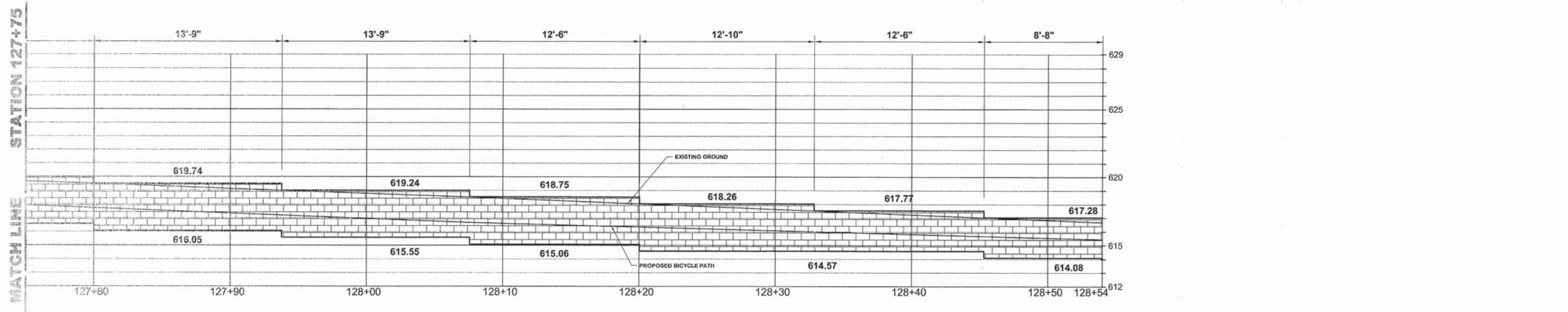
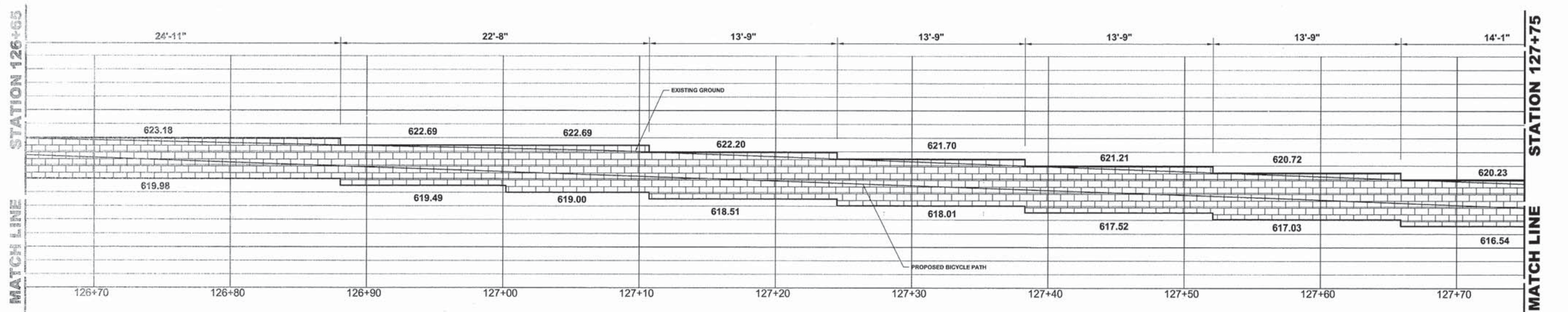
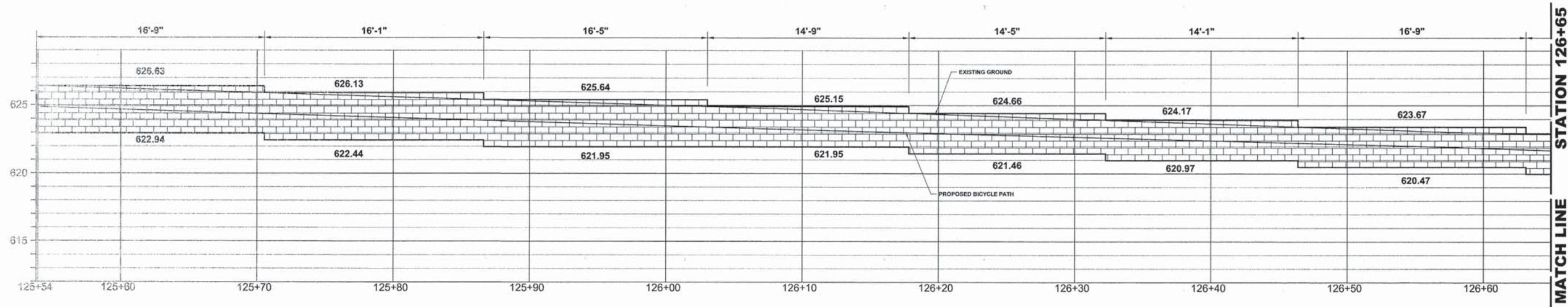
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SEGMENTAL CONCRETE BLOCK WALL
 DETAILS**

SCALE: 1"=4'H; 1"=4'V SHEET NO. OF SHEETS STA. TO STA.

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	116
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing title: H:\Projects\14-24201\14-24201-116.dwg Date: 08/03/2015 11:11:19 AM User: dmm



ELEVATION RETAINING WALL #3

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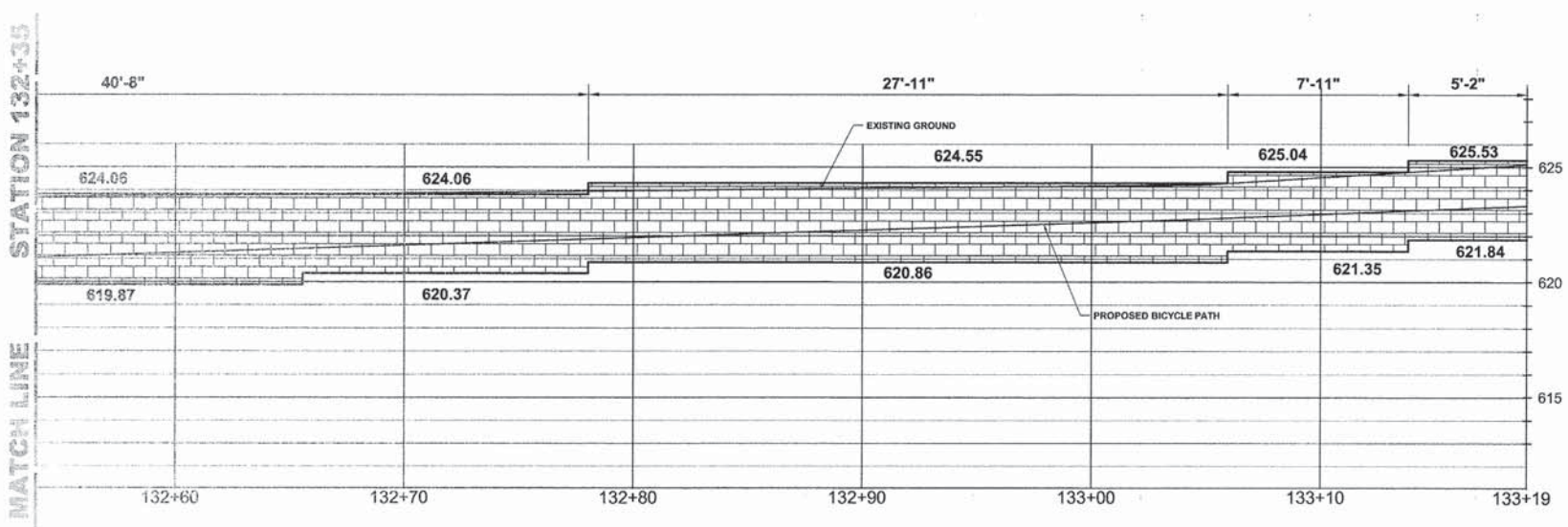
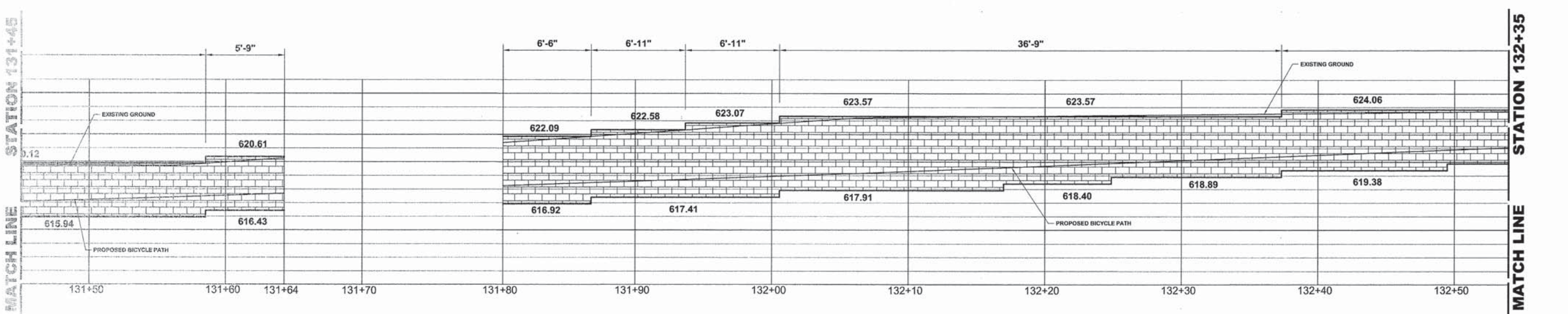
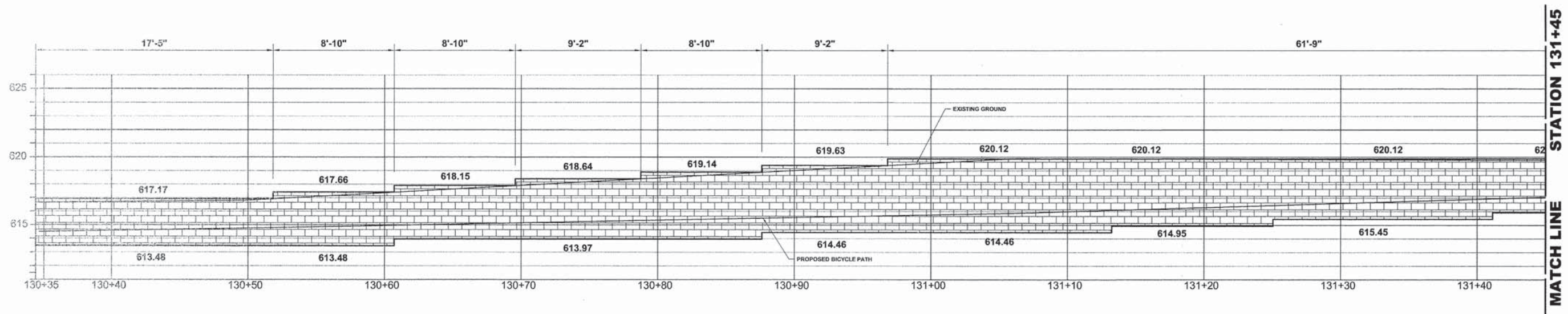
DESIGNED - WOP	REVISED - 8-4-15 I.D.O.T. DMM
DRAWN - DMM, MK	REVISED -
CHECKED - JGG	REVISED -
DATE - 3-6-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEGMENTAL CONCRETE BLOCK WALL
DETAILS
 SCALE: 1"=4'H; 1"=4'V
 SHEET NO. OF SHEETS STA. TO STA.

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	117
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing file: W:\Projects_by_Village\Illinois_Per\60014242 - 117th Ave Commuter Bicycle Path\115-119 Wall Details.dwg Aug 03, 2015 - 4:11pm



ELEVATION RETAINING WALL #4

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DESIGNED - WOP	REVISED - 8-4-15 I.D.O.T. DMM
DRAWN - DMM, MK	REVISED -
CHECKED - JGG	REVISED -
DATE - 3-6-15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

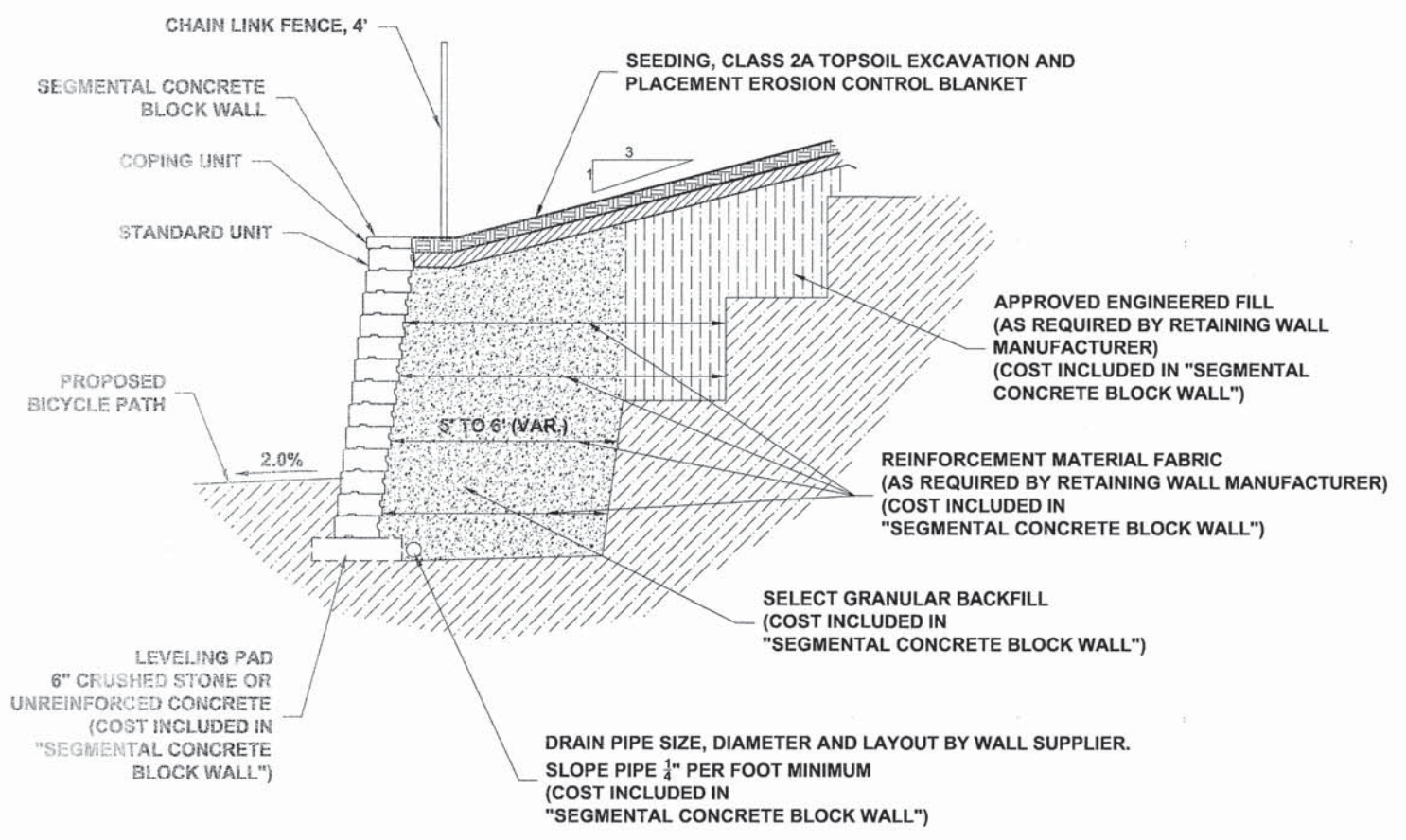
**SEGMENTAL CONCRETE BLOCK WALL
 DETAILS**

SCALE: 1"=4'H; 1"=4'V SHEET NO. OF SHEETS STA. TO STA.

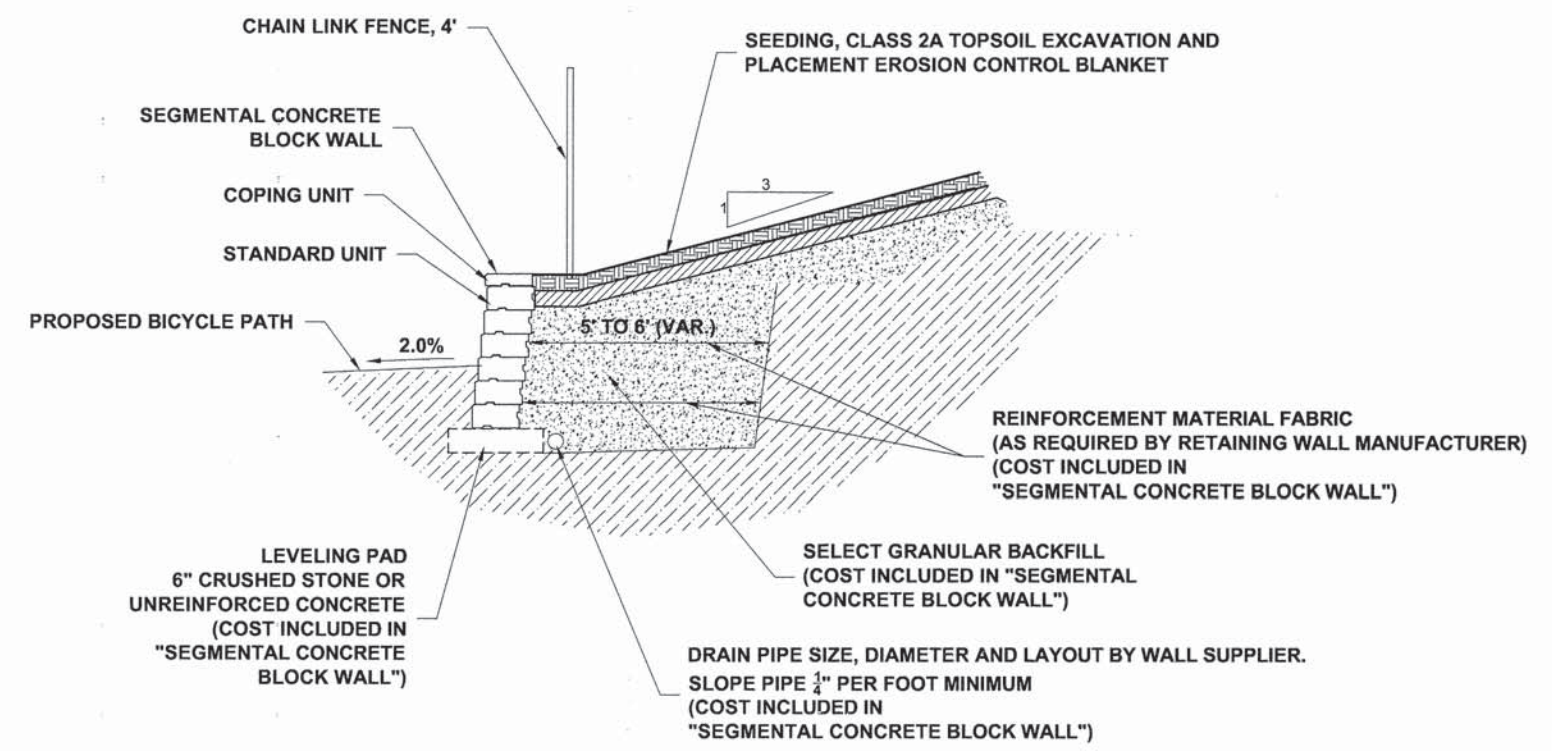
MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FIELD BOOK NO. : GPS	CONTRACT NO. 61B78			
ILLINOIS		FED. AID PROJECT		

Drawing file: W:\Projects\by_jj\08112015\112-119 Wall Details.dwg Aug 01, 2015 - 4:13pm

Drawing: G:\Projects\11-119\119-119\119-119.dwg Date: 08/01/2015 4:11pm
 Project: 11-119-119-119.dwg
 Path: G:\Projects\11-119\119-119\119-119.dwg



TYPICAL SECTIONS
 STA. 40+52 TO STA. 43+37,
 STA. 44+39 TO STA. 47+70



TYPICAL SECTIONS
 STA. 125+54 TO STA. 128+70,
 STA. 130+35 TO STA. 133+19

NOTE:
 THE RETAINING WALL DETAIL INFORMATION PROVIDED ON SHEETS 115-119 SERVE AS A REFERENCE TO THE CONTRACTOR. THE SPECIAL PROVISION FOR SEGMENTAL CONCRETE BLOCK WALL SHALL HOLD PRECEDENCE OVER THE DETAILS ON THE PLANS, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DESIGN TO BE APPROVED BY A LICENSED STRUCTURAL ENGINEER.

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DESIGNED -	WOP	REVISED -	8-4-15 I.D.O.T. DMM
DRAWN -	DMM, MK	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

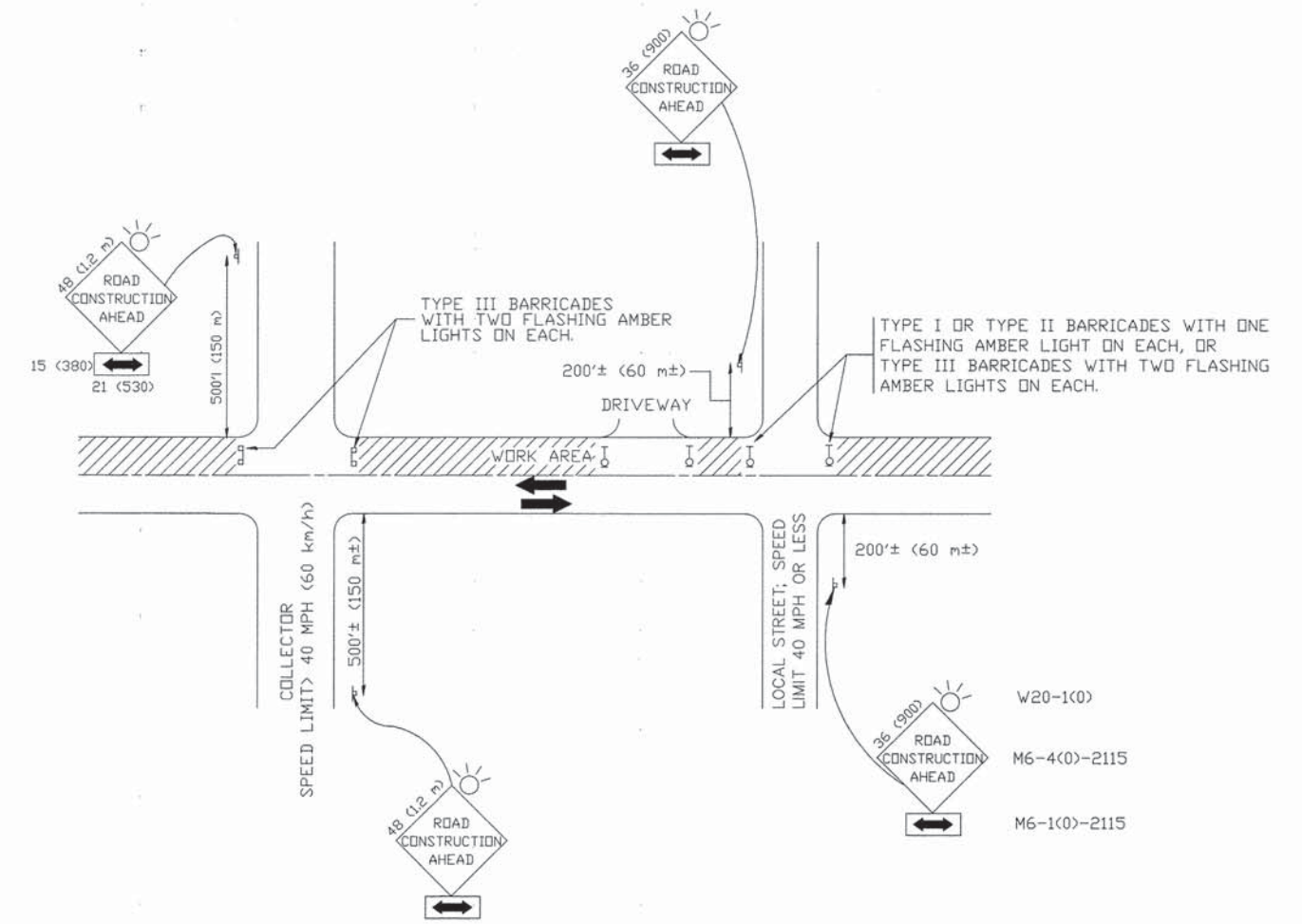
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SEGMENTAL CONCRETE BLOCK WALL
 DETAILS**

SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.
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MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	119
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing file: W:\Projects_by_Village\Wabase Park\600-1143 - North Ave Commuter Bicycle Path\120-TC-10.dwg Aug 07, 2015 - 11:50am



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

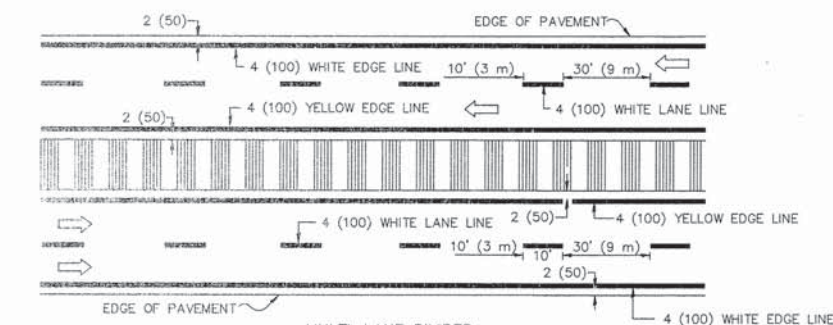
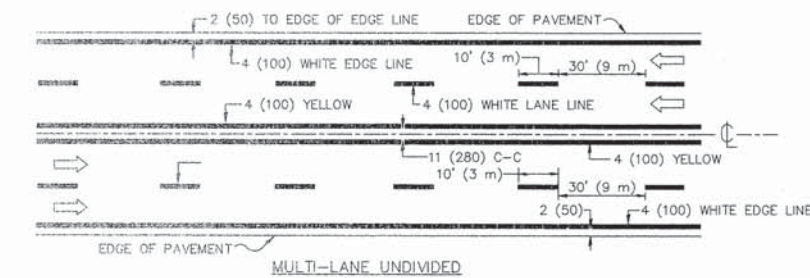
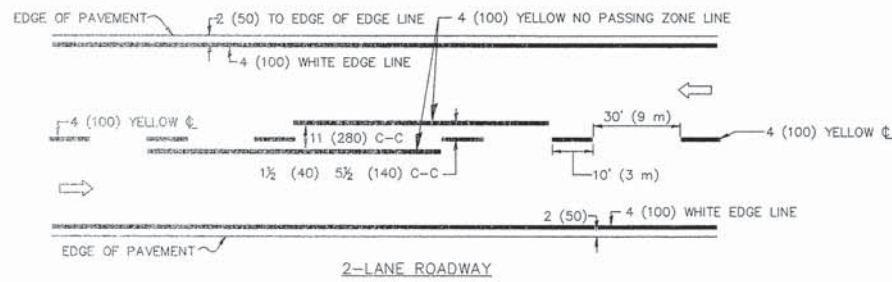
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

USER NAME =	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
PLOT SCALE =	DRAWN -	REVISED - A. HOUSEH 03-06-96
PLOT DATE =	CHECKED -	REVISED - A. HOUSEH 10-15-96
	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

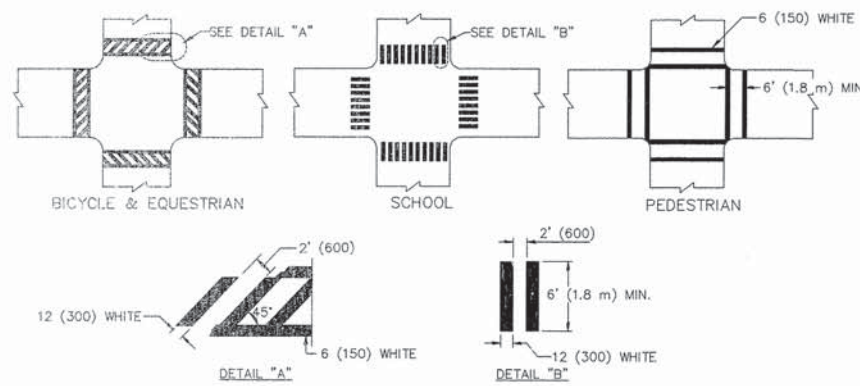
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		FAP 307	08-00110-00-BT	COOK	151	120
SHEET NO. 1 OF 1 SHEETS		TC-10		CONTRACT NO. 61B78		
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

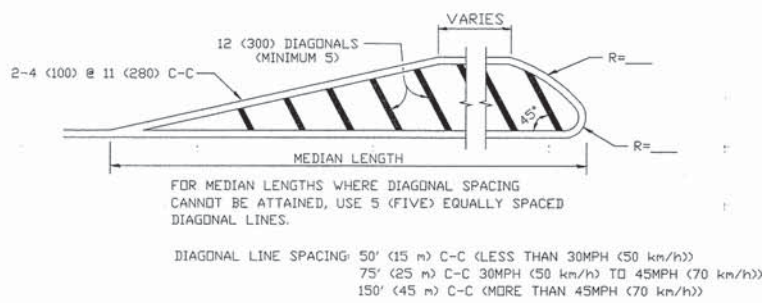
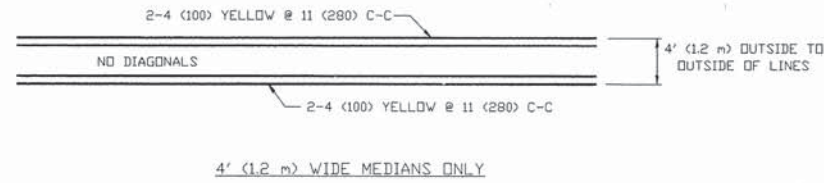


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

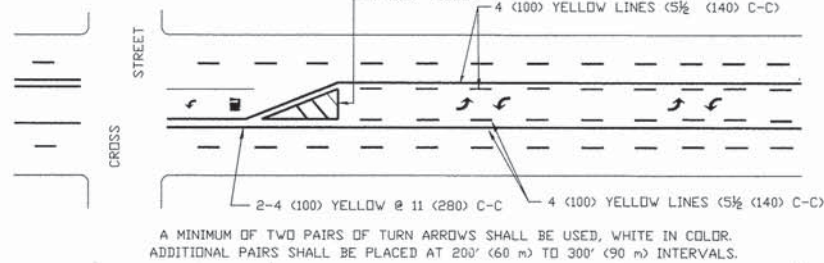
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

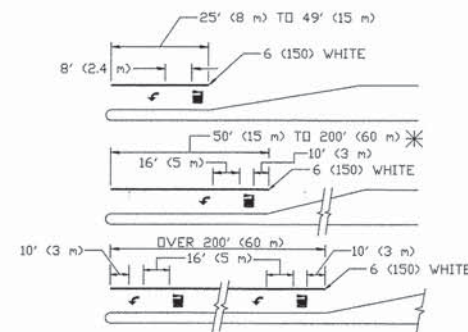


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

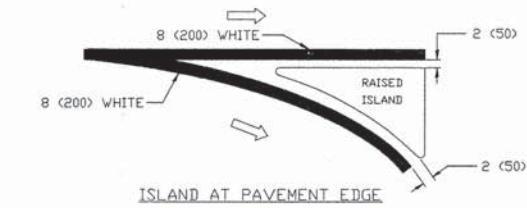
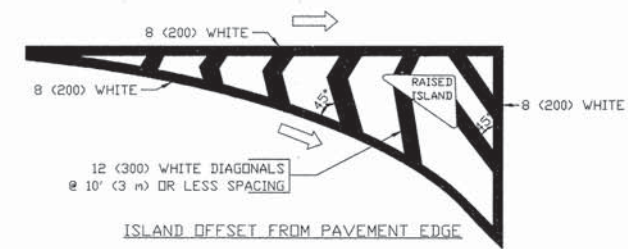


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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	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' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) 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 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" IS 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 ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 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.

FILE NAME =	USER NAME = drvakosgn	DESIGNED - EVERS	REVISED - T.RAMMACHER 10-27-94
		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			FAP 307	08-00110-00-BT	COOK	151	121
			TC-13		CONTRACT NO. 61B78		
			FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

Drawing file: W:\Projects\by_slope\weiss\Plan\601\642 - North Ave. Commuter Bicycle Path\TC-26.dwg Aug 07, 2016 - 11:53pm

FILE NAME = W:\Projects\by_slope\weiss\Plan\601\642 - North Ave. Commuter Bicycle Path\TC-26.dwg	USER NAME = geglianob	DESIGNED - DRAWN -	REVISED - REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

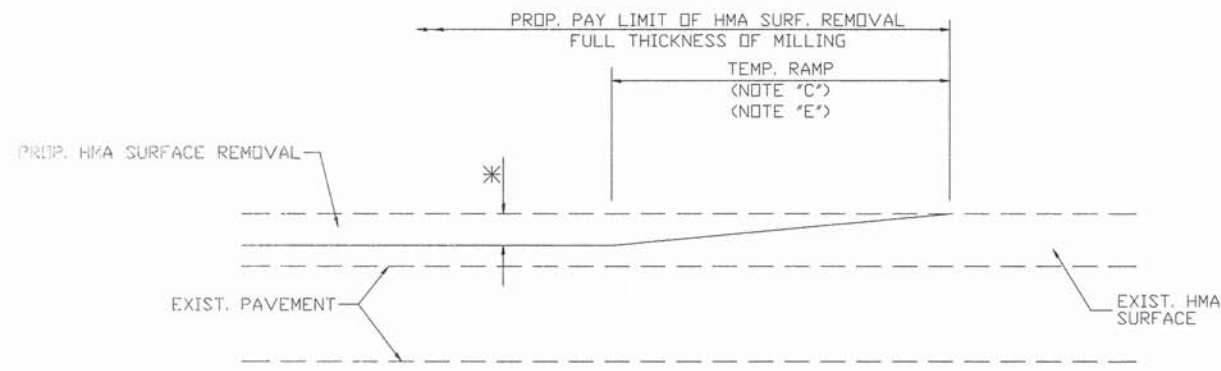
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	151	123
TC-26			CONTRACT NO. 61B78	

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

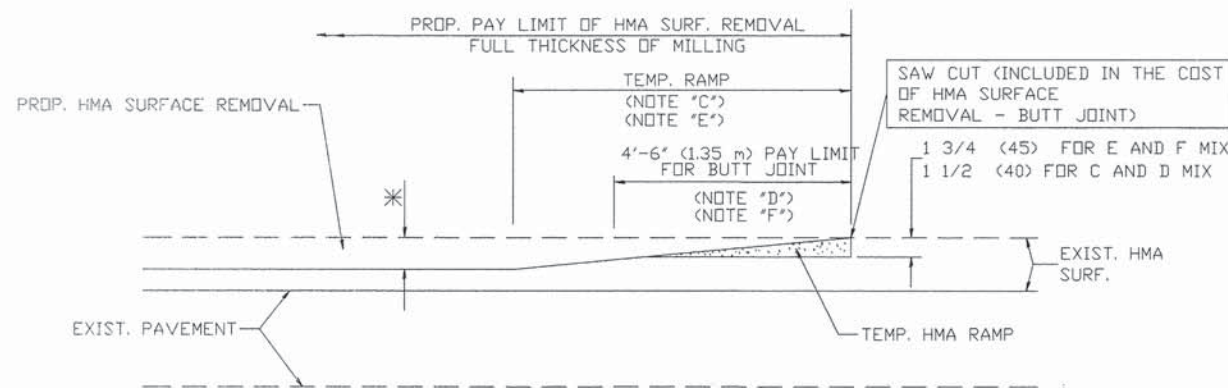
E.H.E. PROJECT NO. 612-13-23201

Drawing File: \\Projects\By_Village\Verese_Fork\60014242 - 1801 - 1st Comm. Rev. 124-90-32.dwg Aug 07, 2015 - 11:53am



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

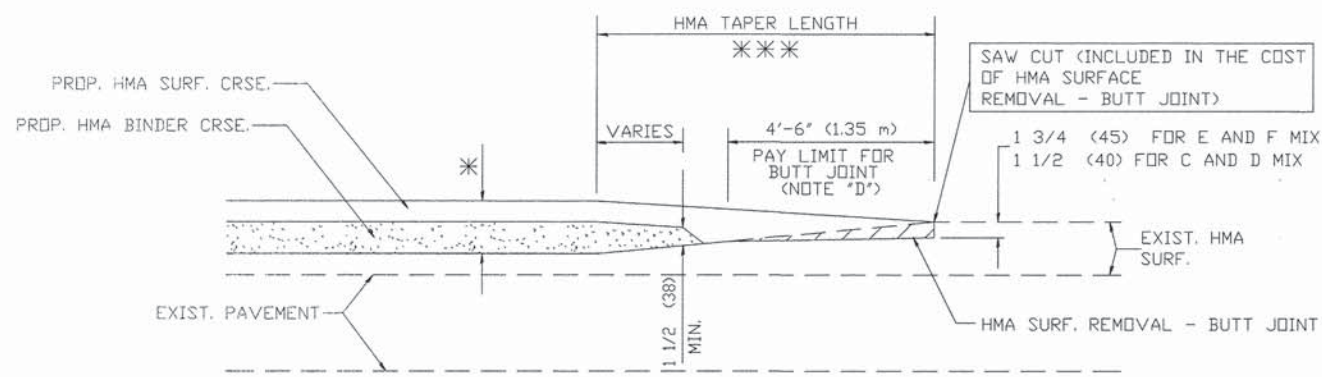
OPTION 1



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

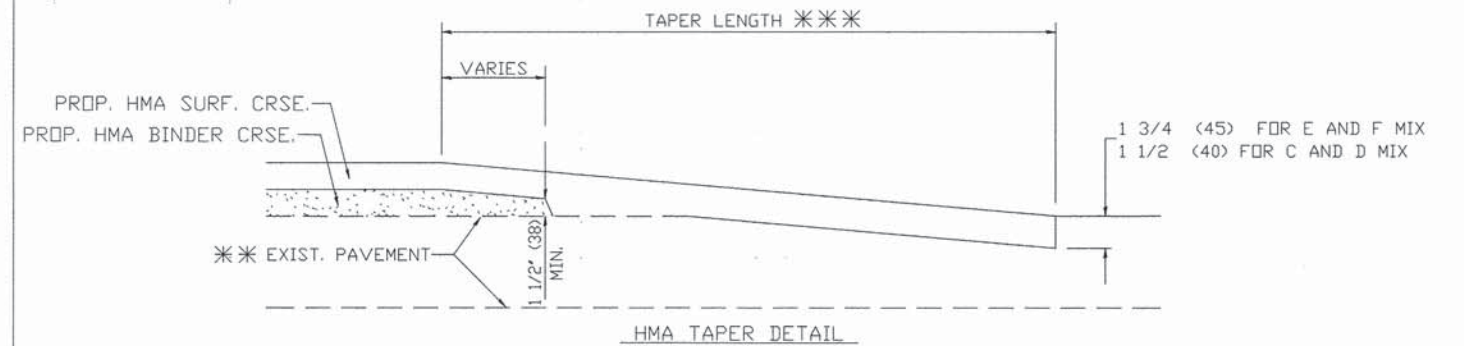
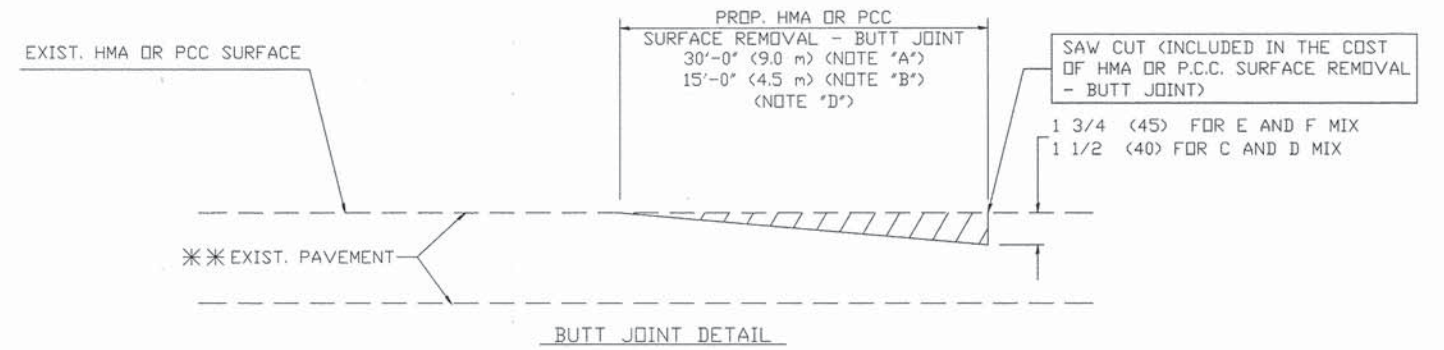
OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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

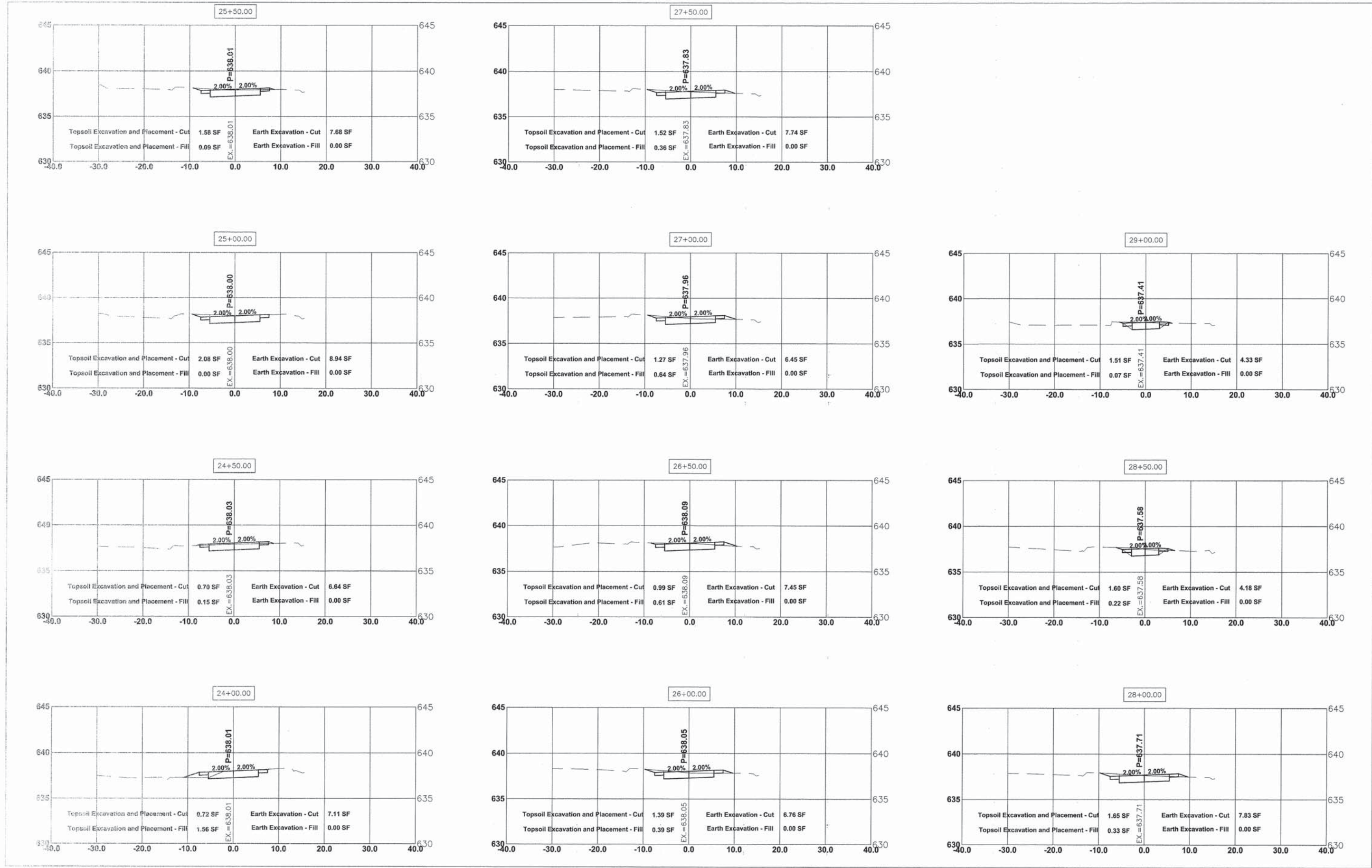
USER NAME =	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE =	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE =	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

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.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	151	124
BD400-05 (BD-32)			CONTRACT NO. 61B78	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Drawing file: \\P:\projects\24\North Ave Comaster Boyce Falls_Site\North_Ave_2.dwg Aug 04, 2015 - 3:02pm



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DRAWN -	DMM, MK	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

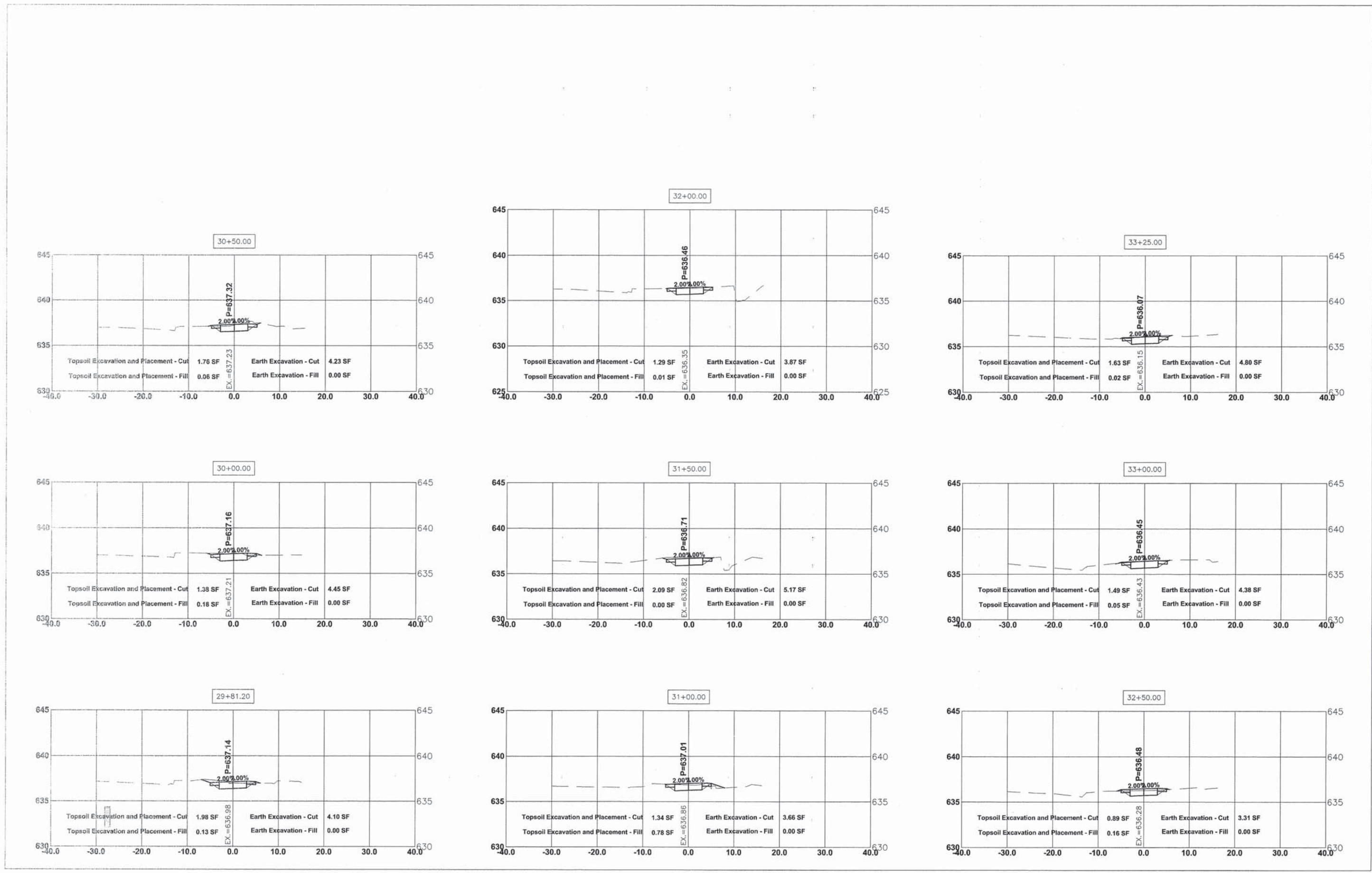
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 1 OF 30 SHEETS STA. 24+00 TO STA. 29+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	125
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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DRAWN - DMM, MK	REVISED -
CHECKED - JGG	REVISED -
DATE - 3-6-15	REVISED -

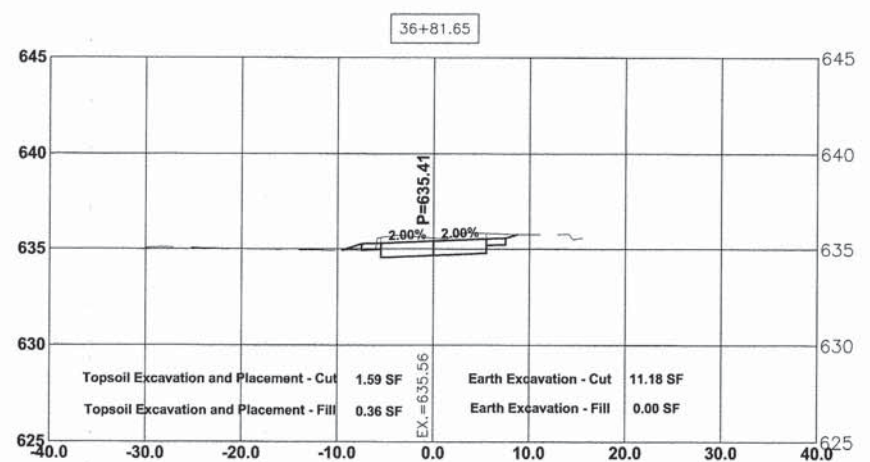
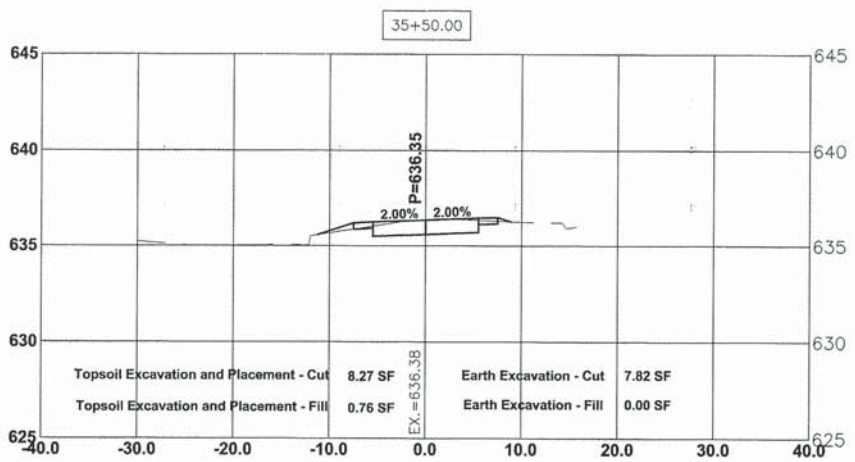
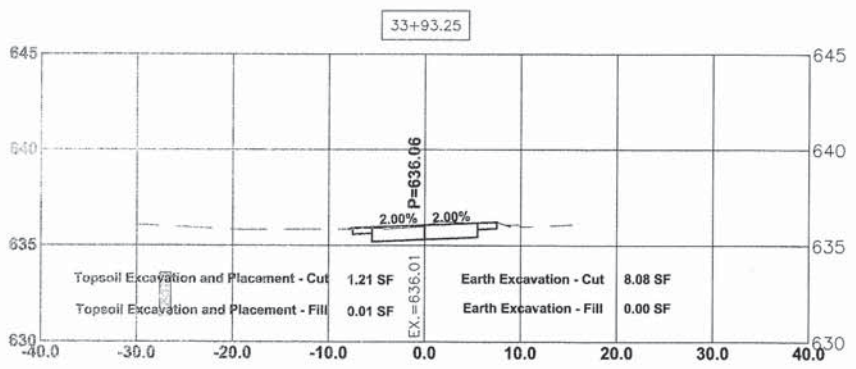
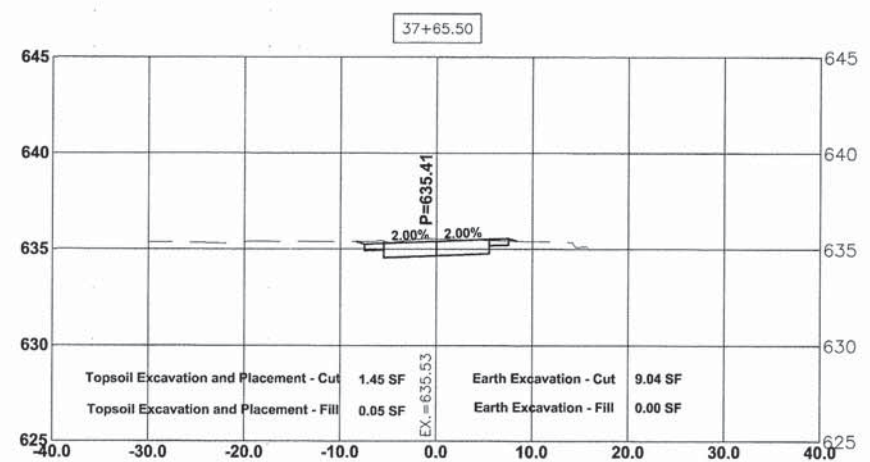
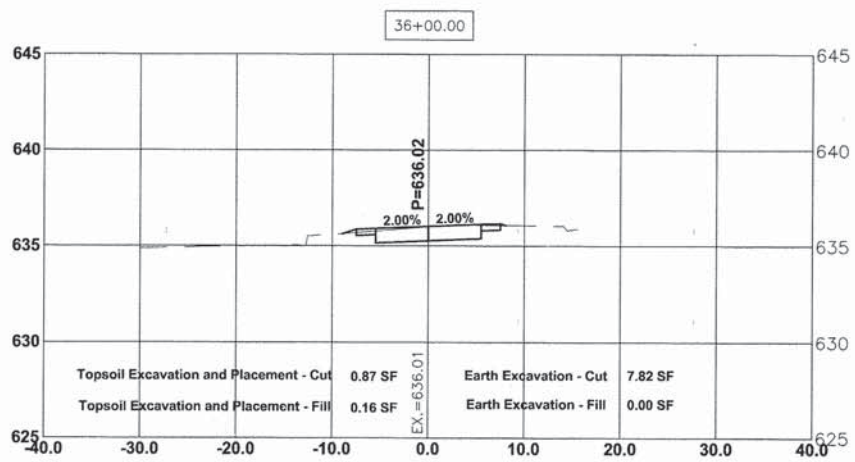
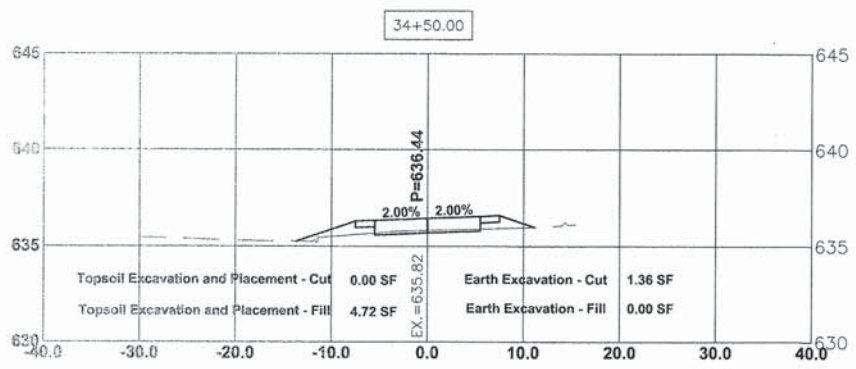
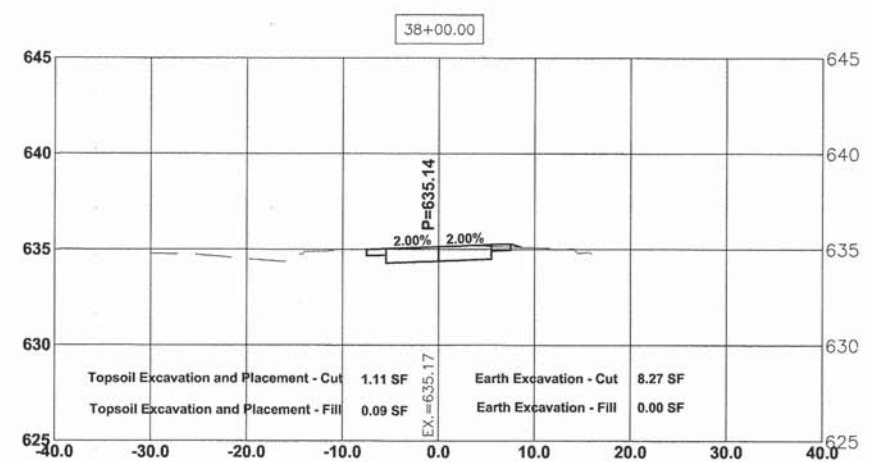
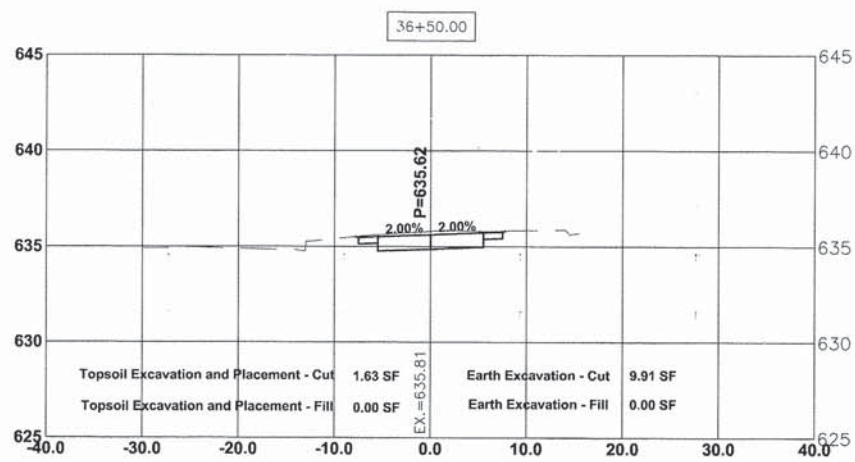
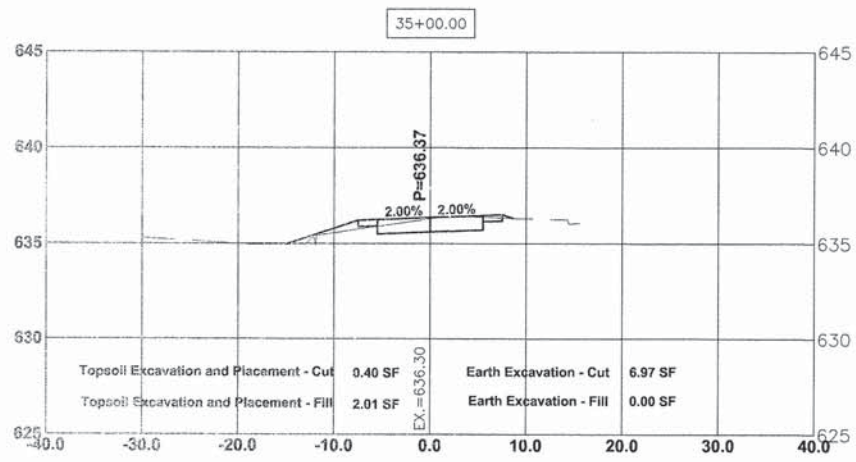
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 2 OF 30 SHEETS STA. 29+81 TO STA. 33+25

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	126
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

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DEPARTMENT OF TRANSPORTATION**

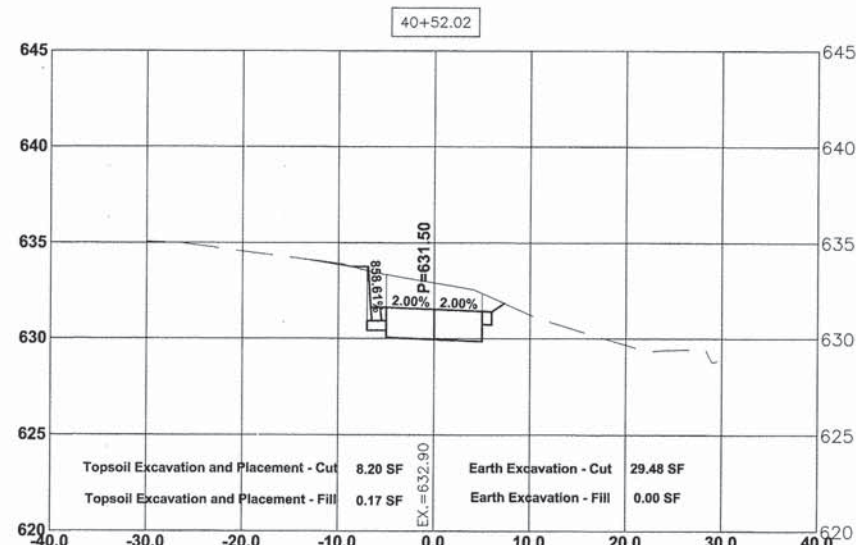
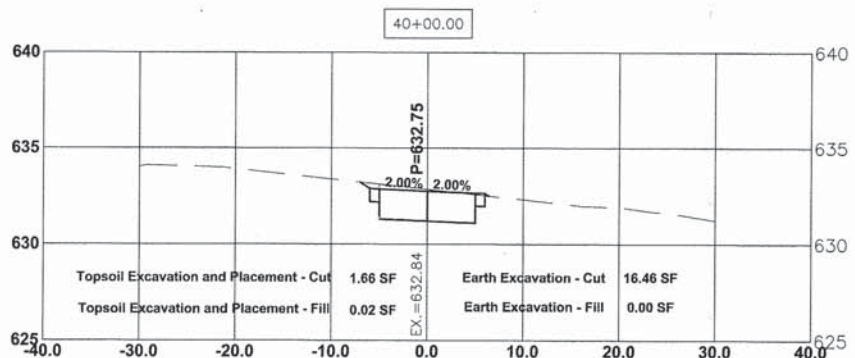
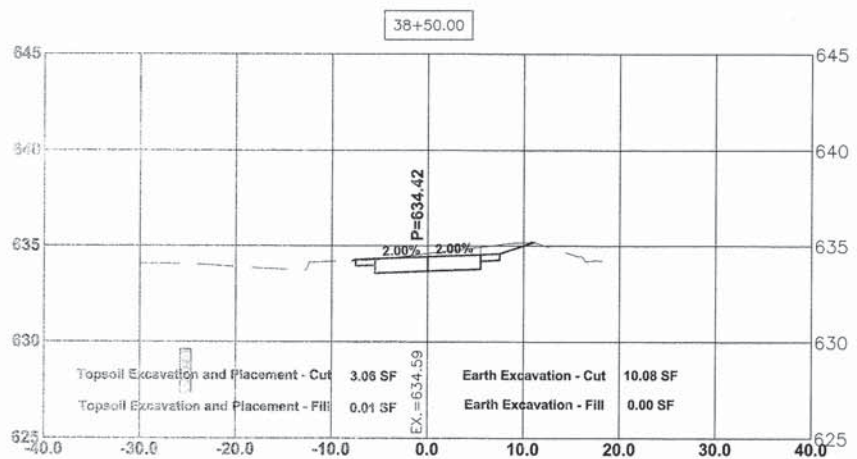
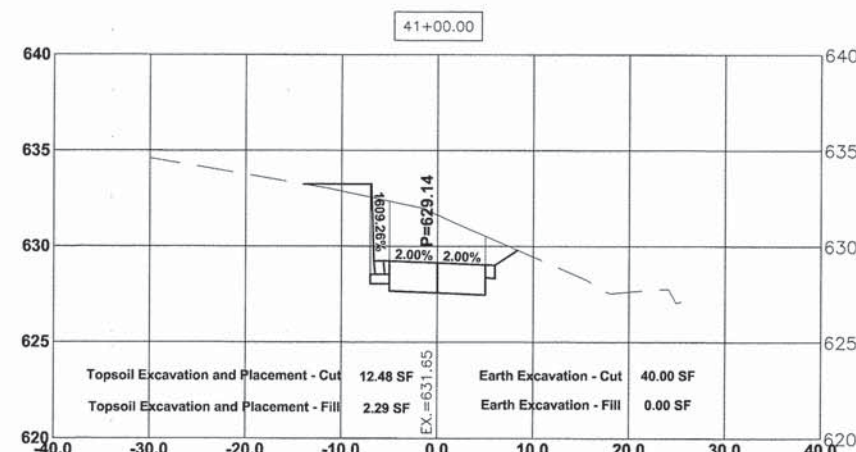
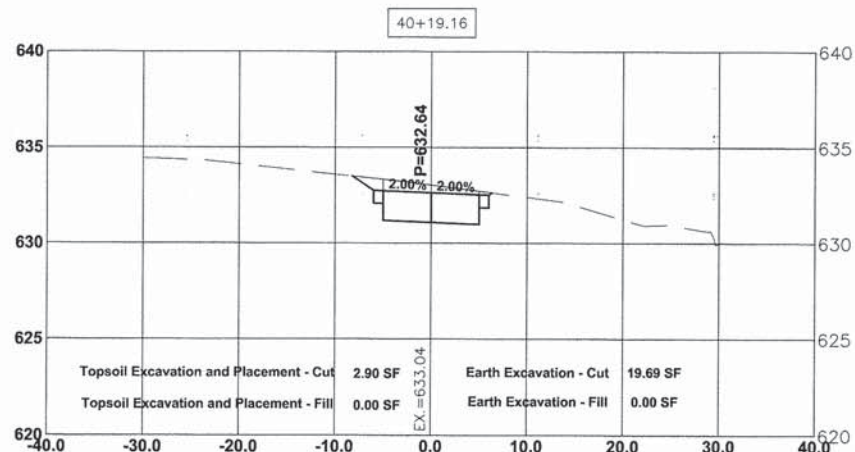
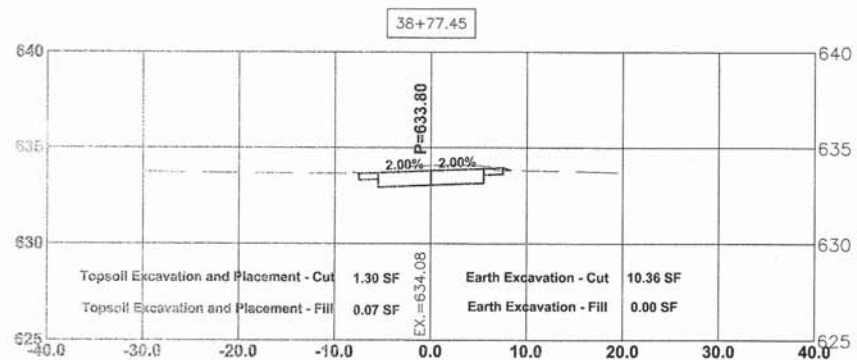
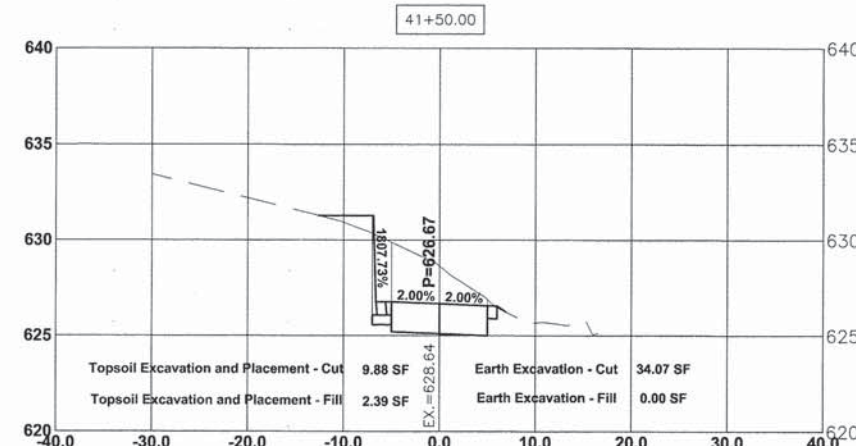
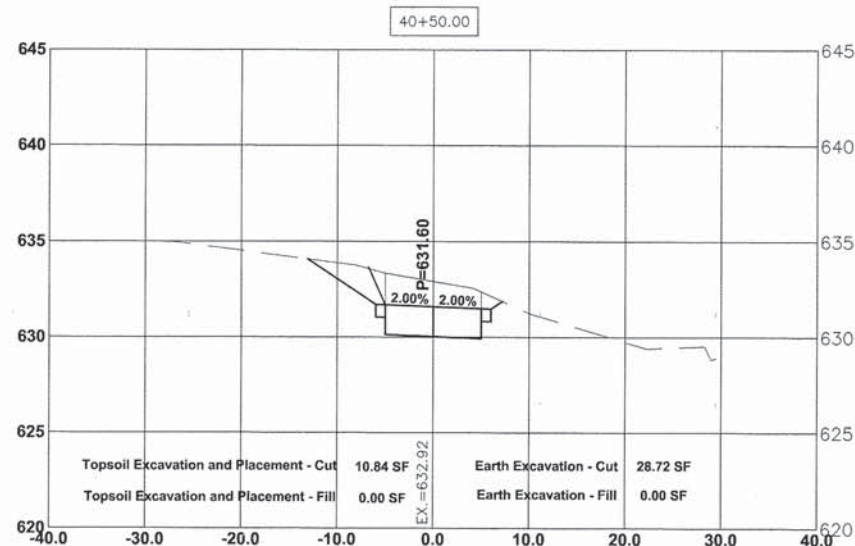
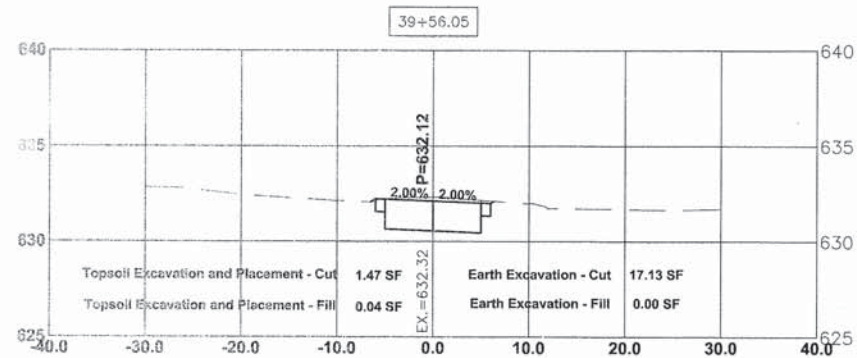
**NORTH AVENUE
STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5V. SHEET NO. 3 OF 30 SHEETS STA. 33+93 TO STA. 38+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	127
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

Drawing File: W:\Projects\08-00110\08-00110-00-BT\North Ave\Station\North_Ave_2.dwg Aug 04, 2015 5:50pm



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CHECKED - JGG
DATE - 3-6-15

REVISED - 8-4-15 I.D.O.T. DMM
REVISED -
REVISED -
REVISED -

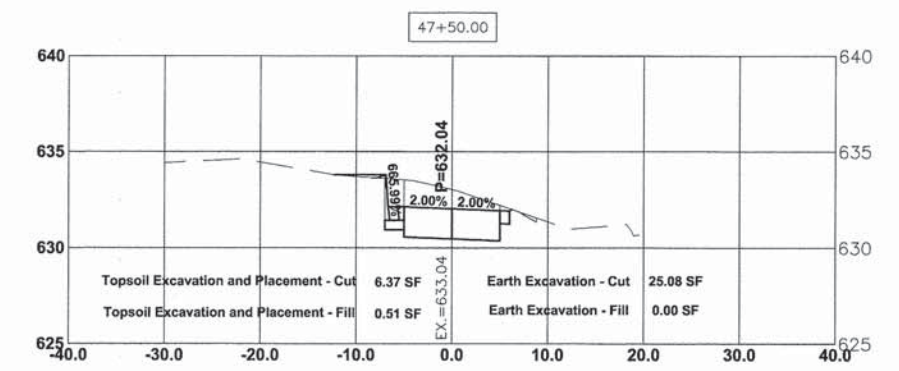
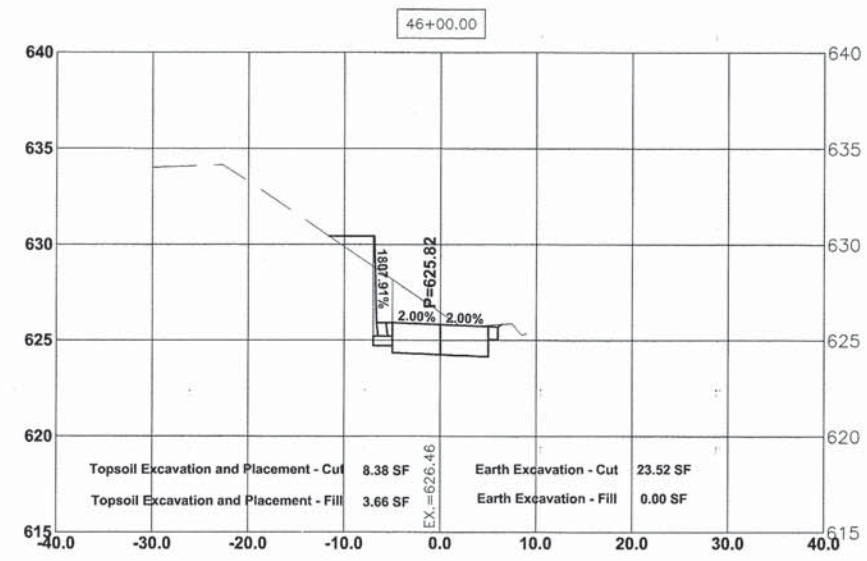
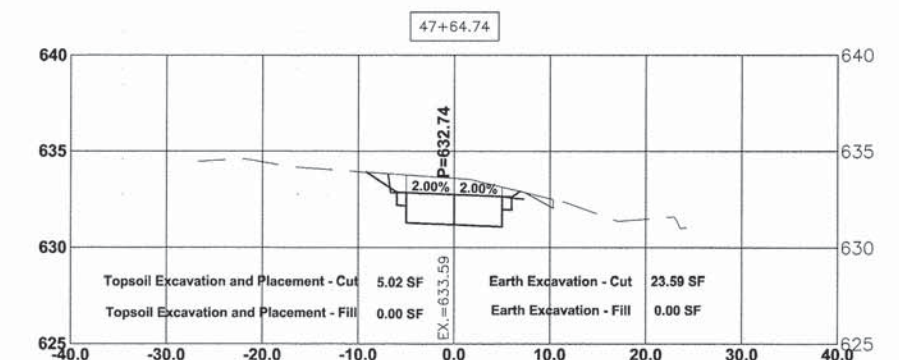
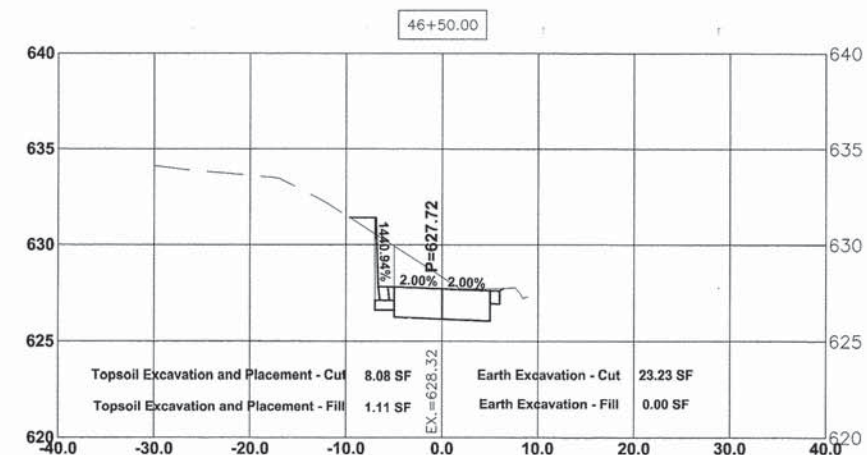
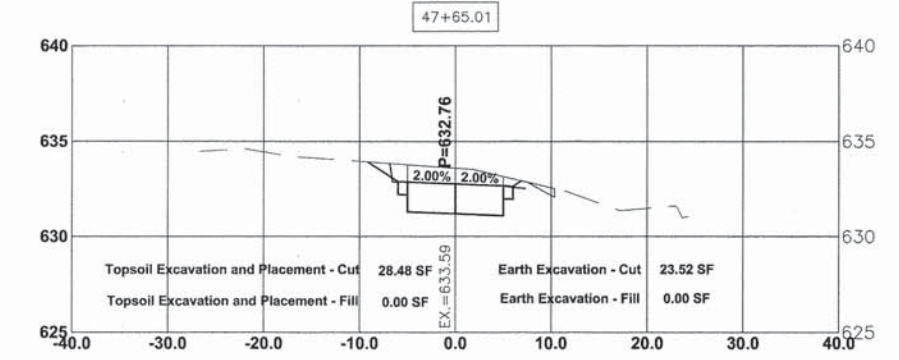
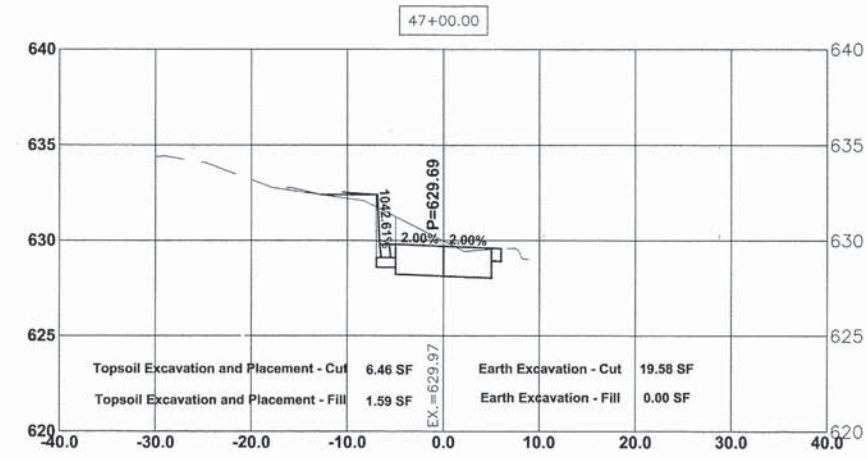
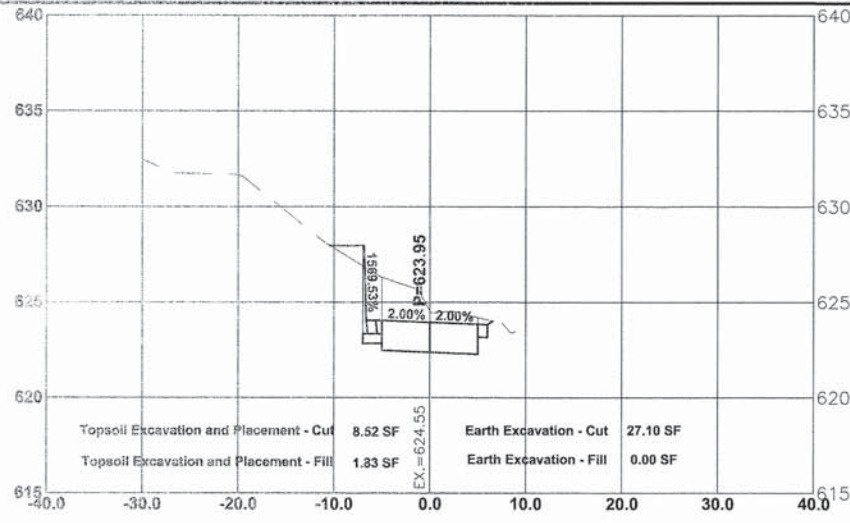
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 4 OF 30 SHEETS STA. 38+50 TO STA. 41+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	128
FIELD BOOK NO.: GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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DATE -	3-6-15	REVISED -	

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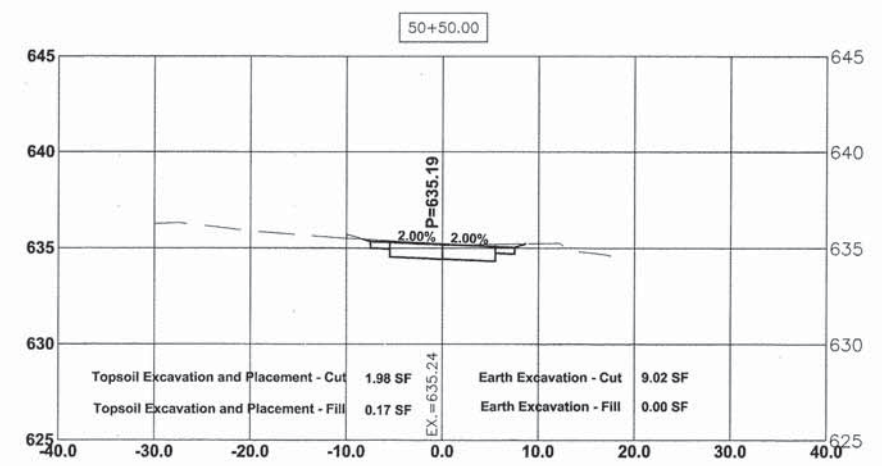
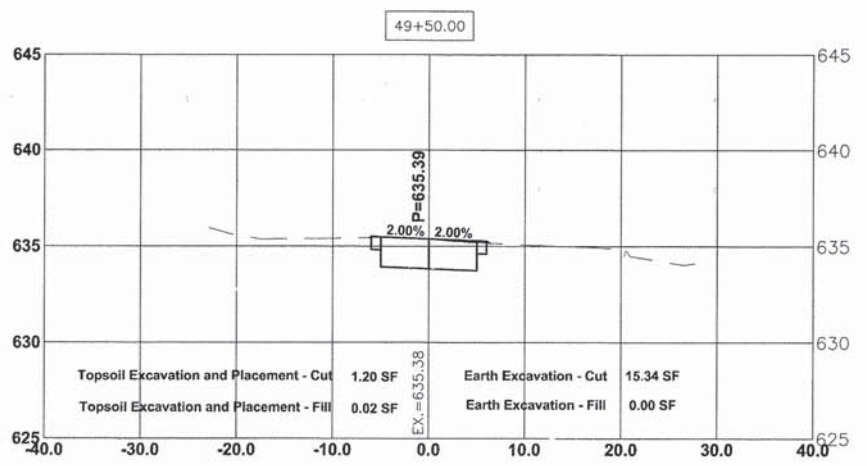
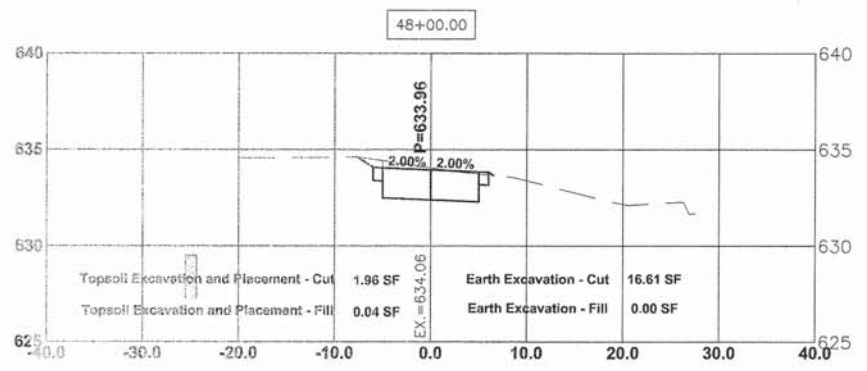
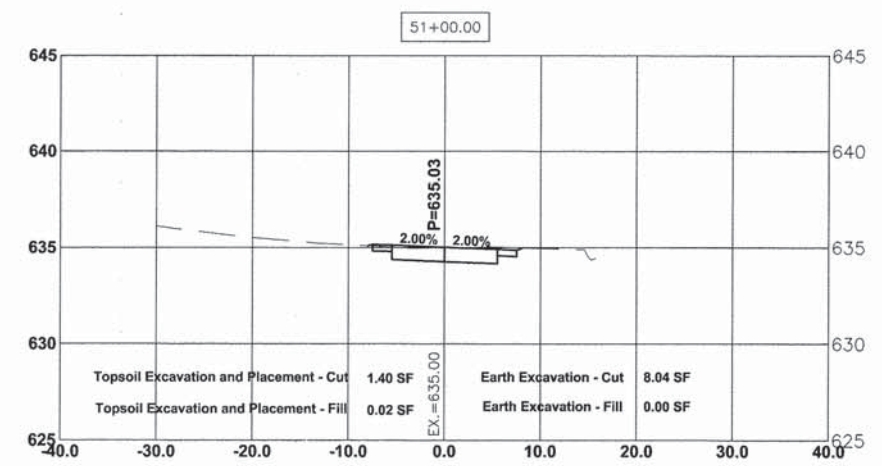
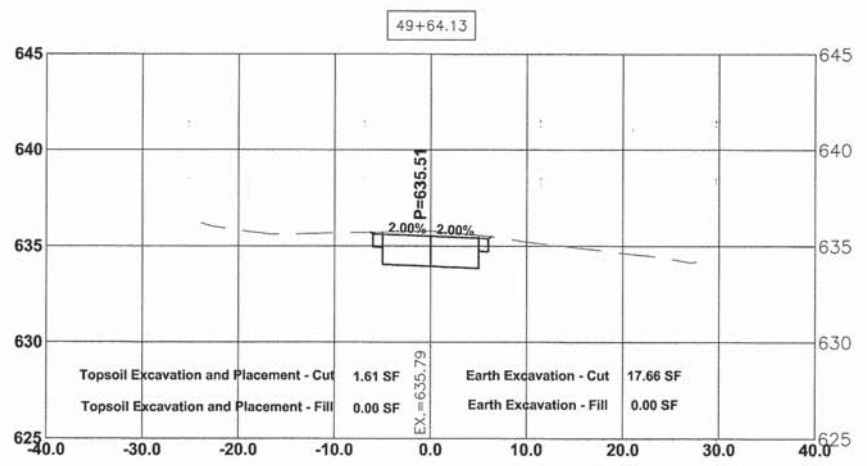
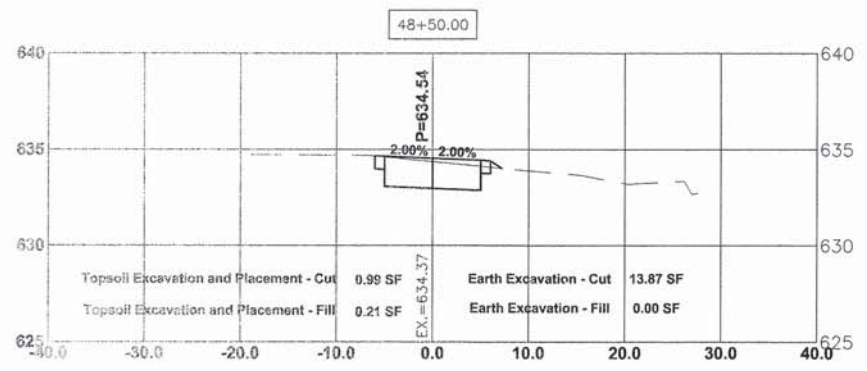
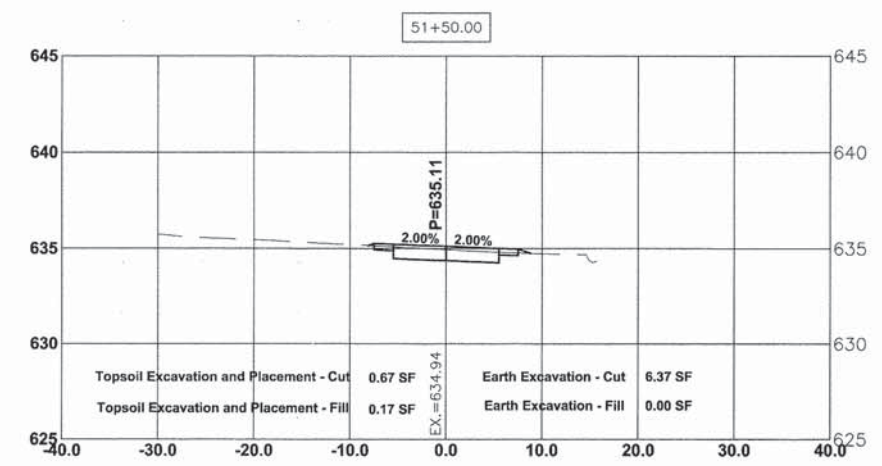
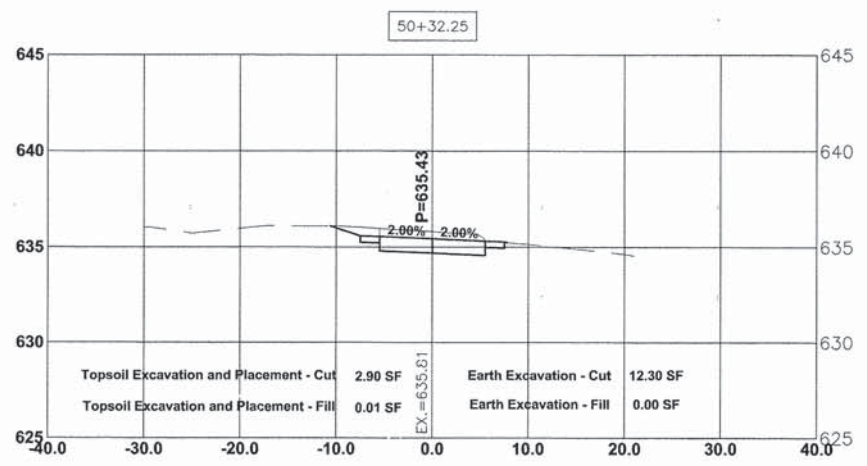
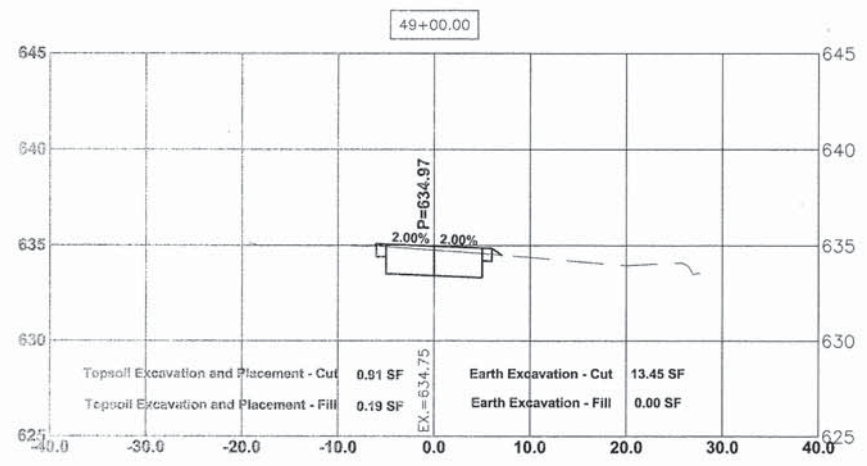
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 6 OF 30 SHEETS STA. 44+81 TO STA. 47+65

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	130
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

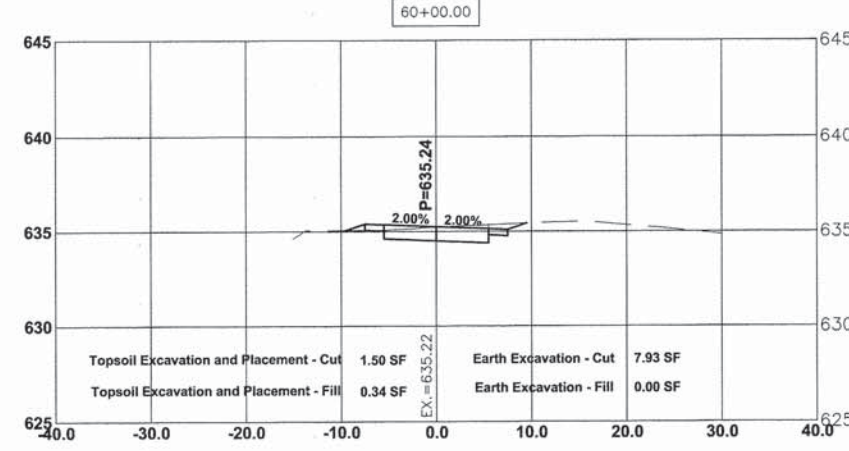
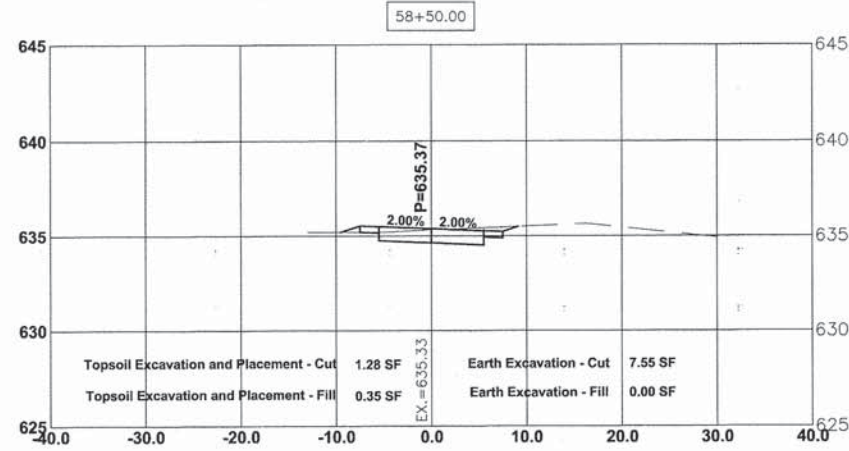
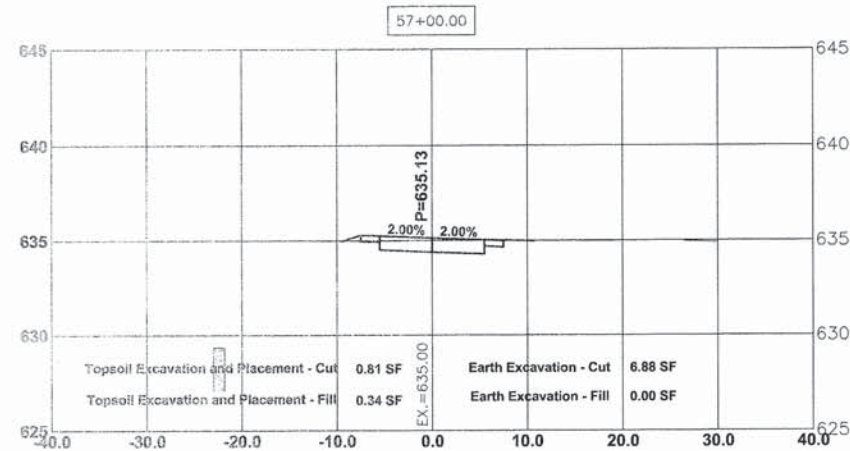
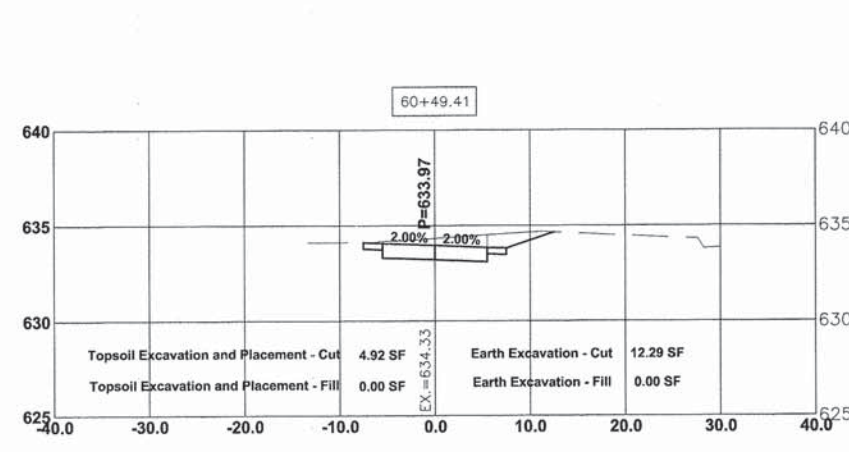
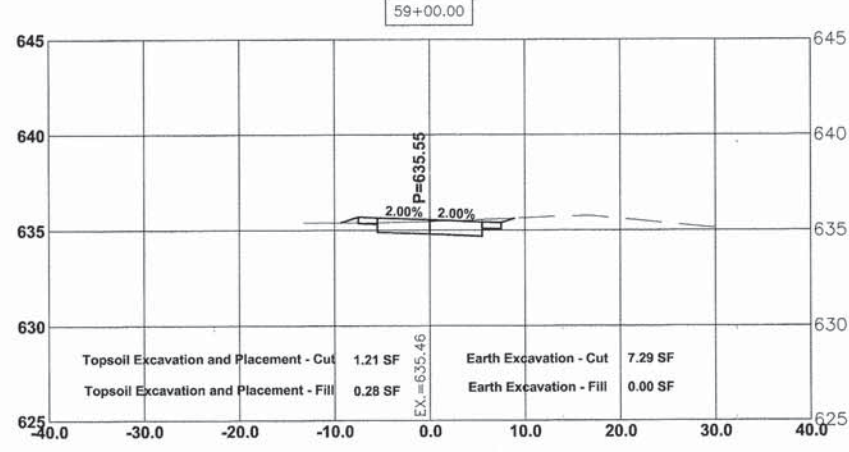
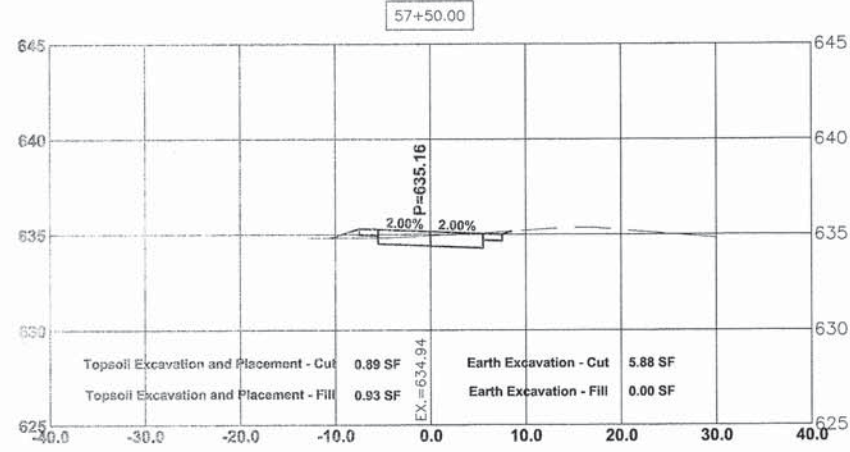
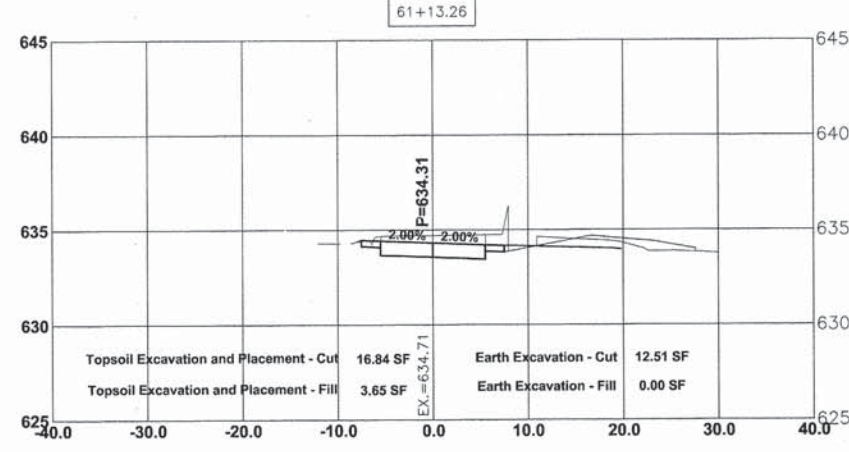
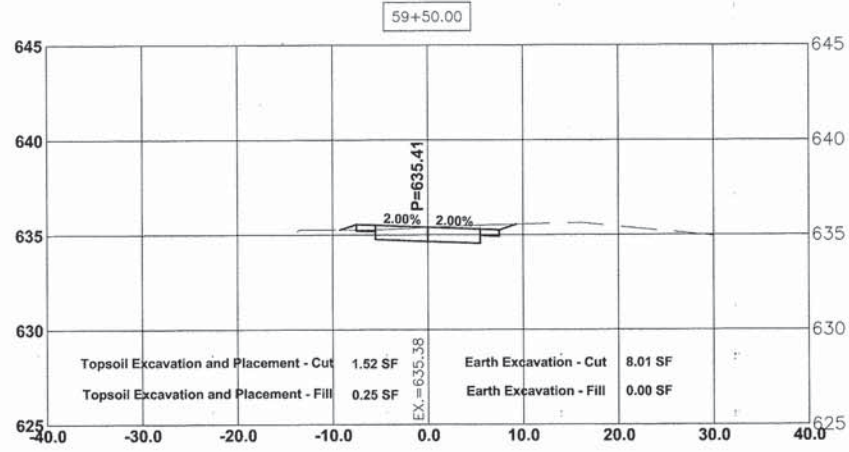
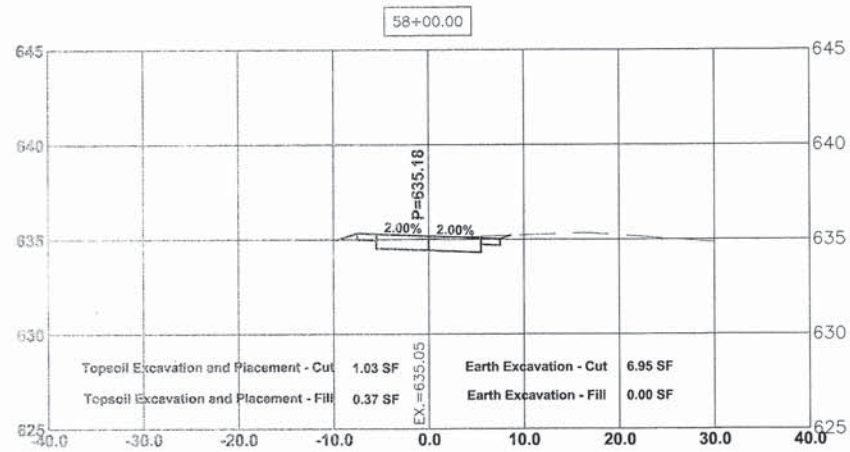
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 7 OF 30 SHEETS STA. 48+00 TO STA. 51+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	131
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

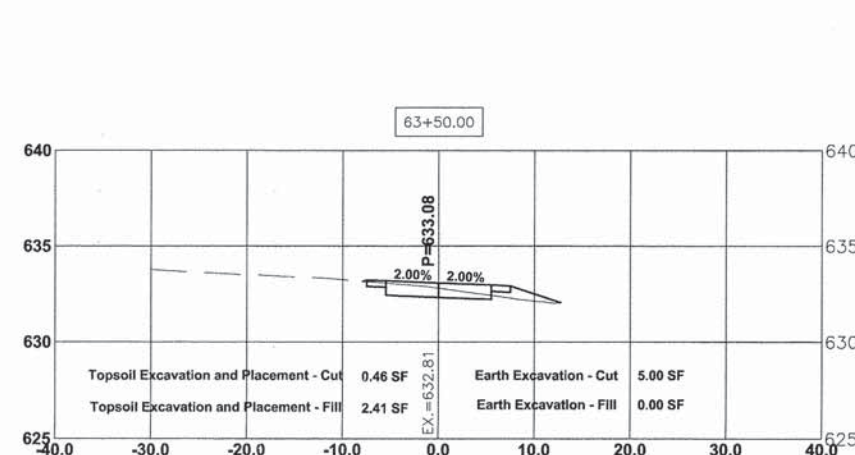
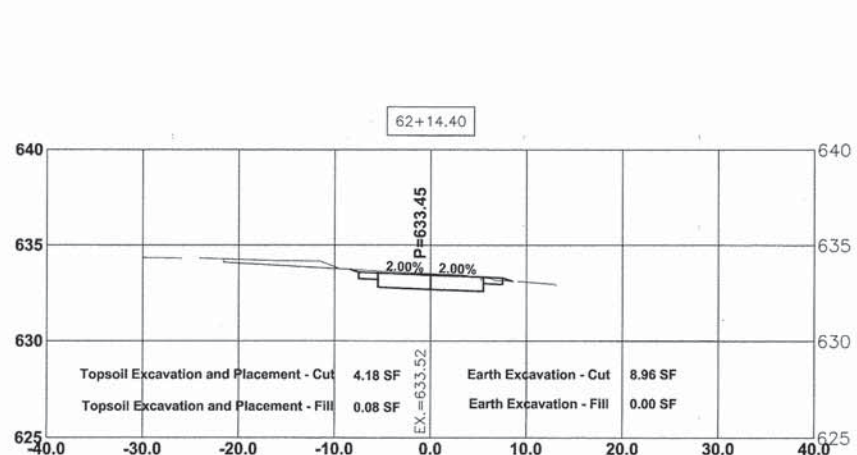
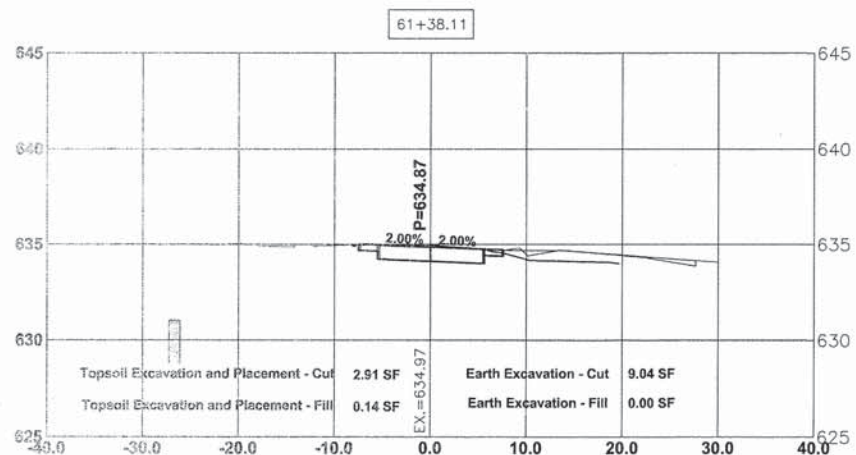
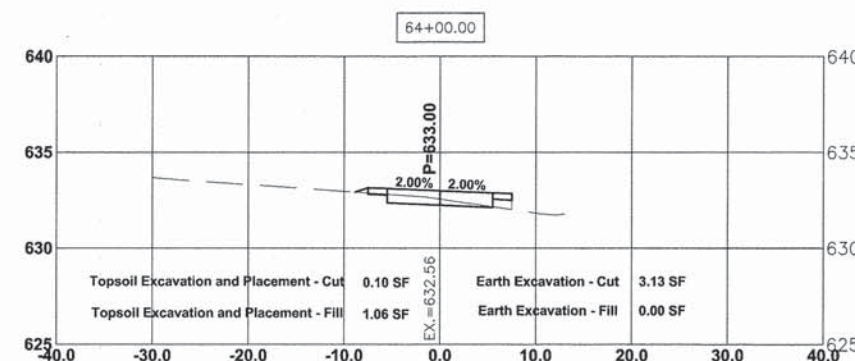
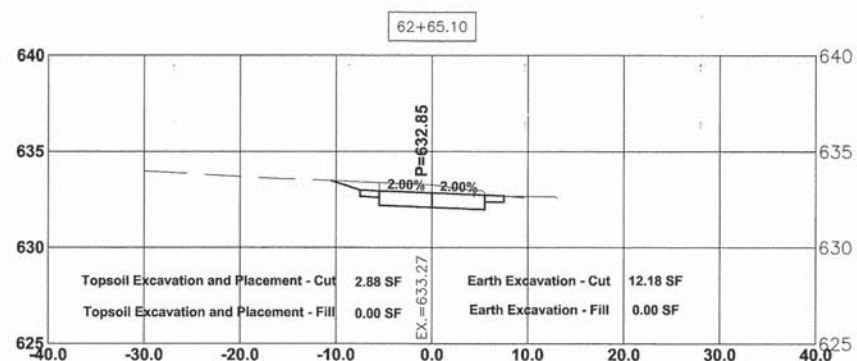
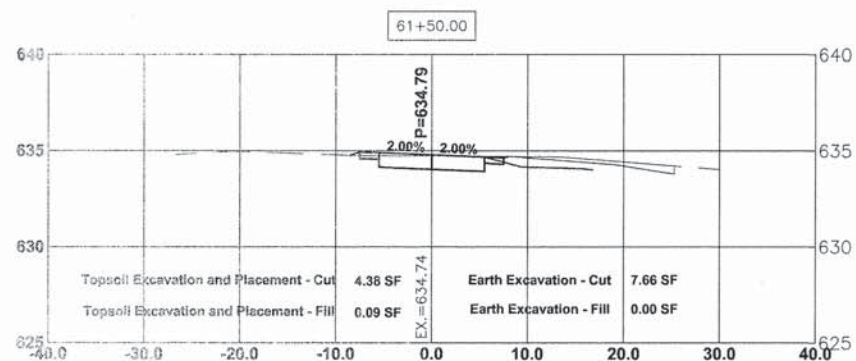
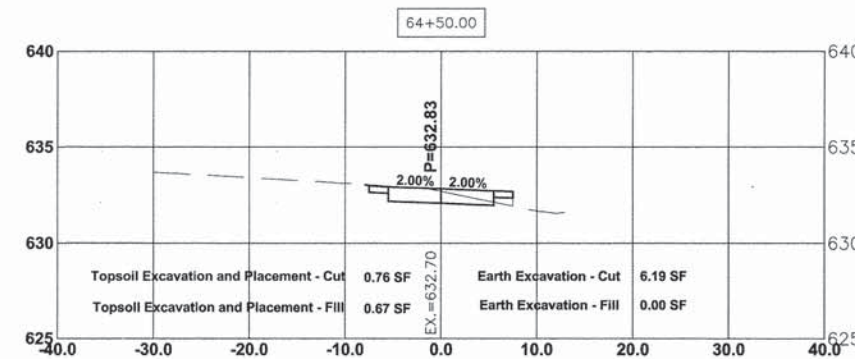
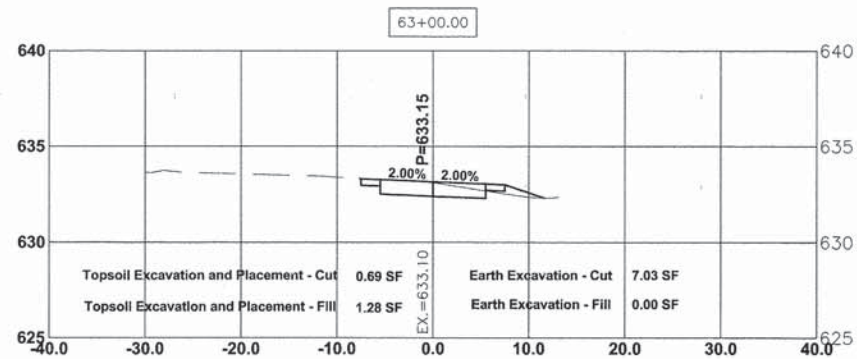
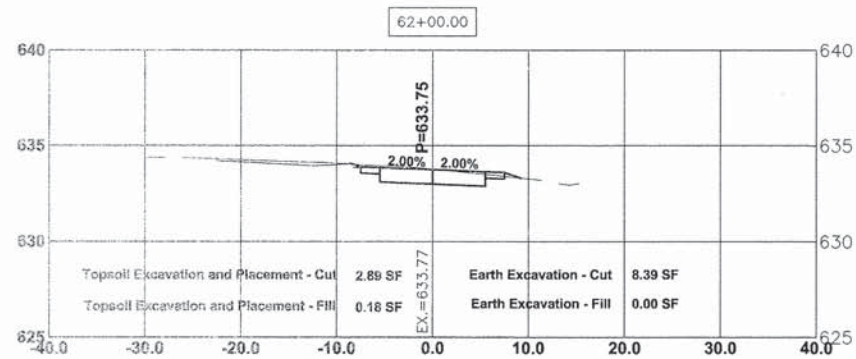
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 9 OF 30 SHEETS STA. 57+00 TO STA. 61+12

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	133
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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CHECKED - JGG	REVISED -
DATE - 3-6-15	REVISED -

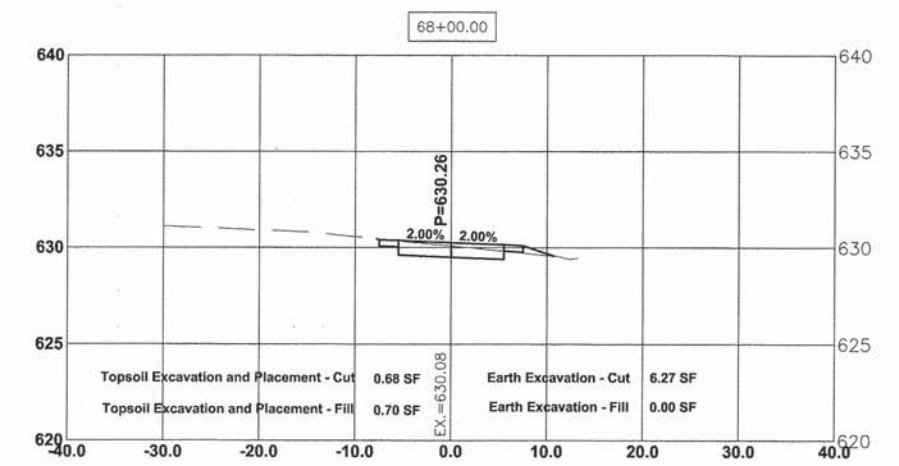
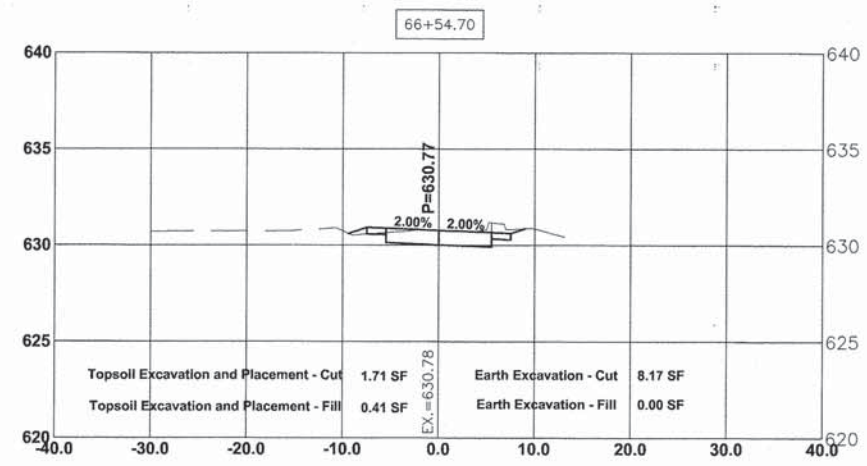
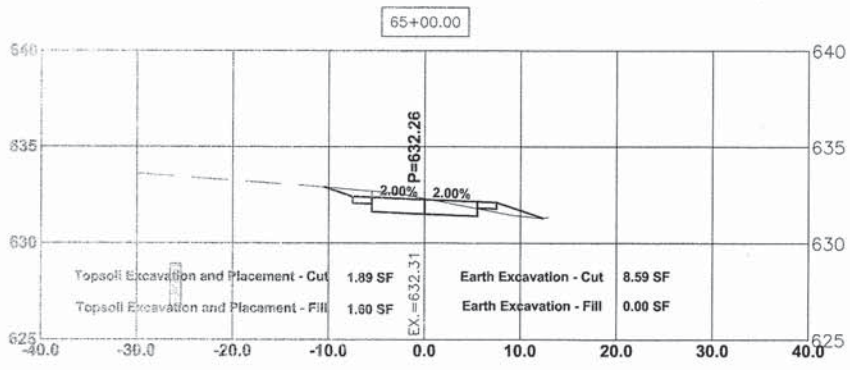
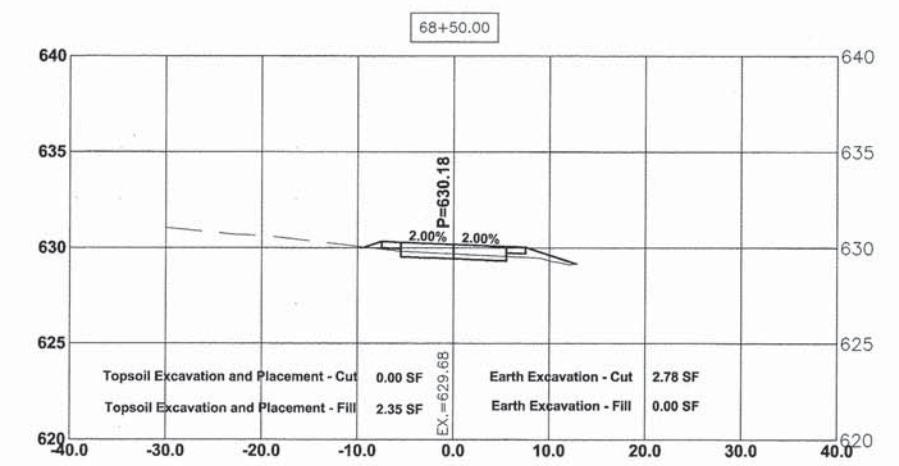
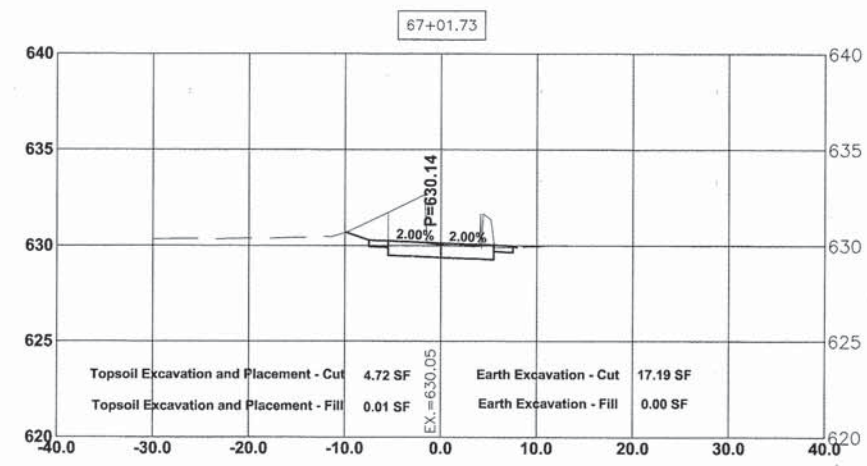
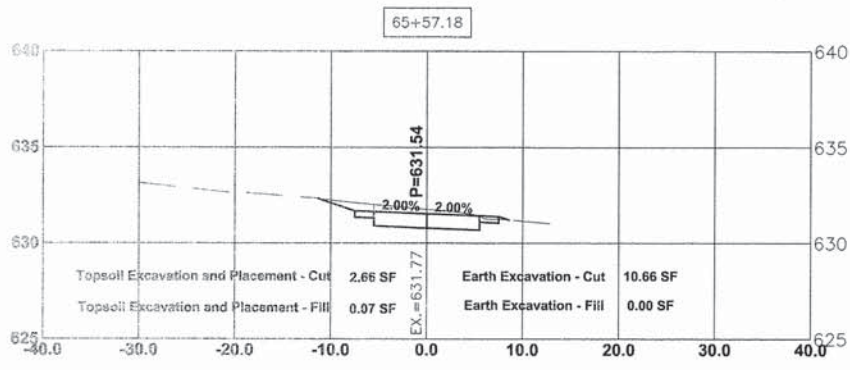
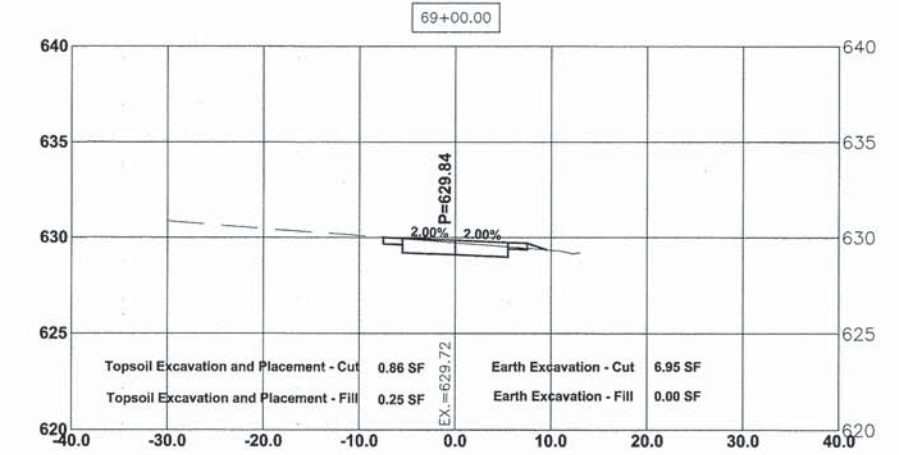
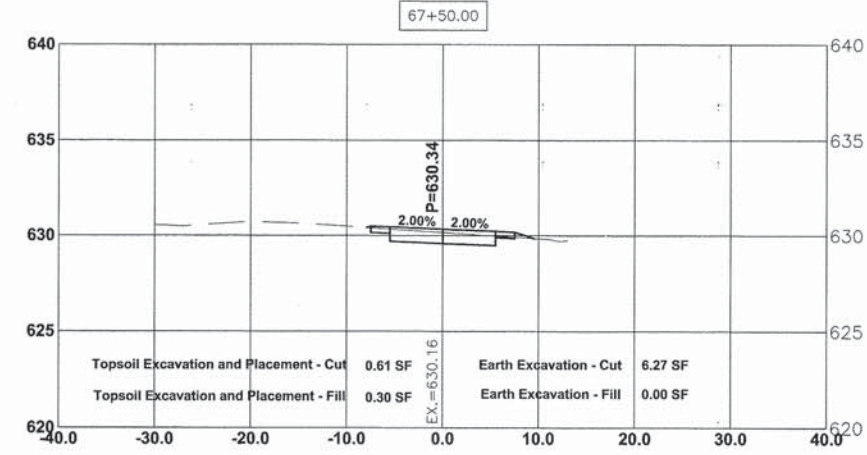
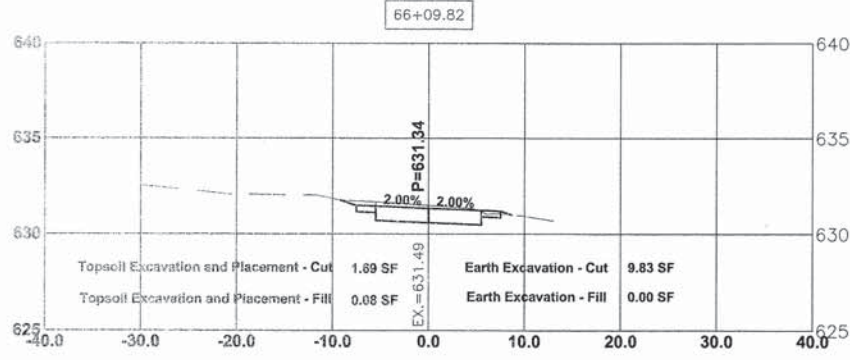
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 10 OF 30 SHEETS STA. 61+38 TO STA. 64+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	134
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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DRAWN -	DMM, MK	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

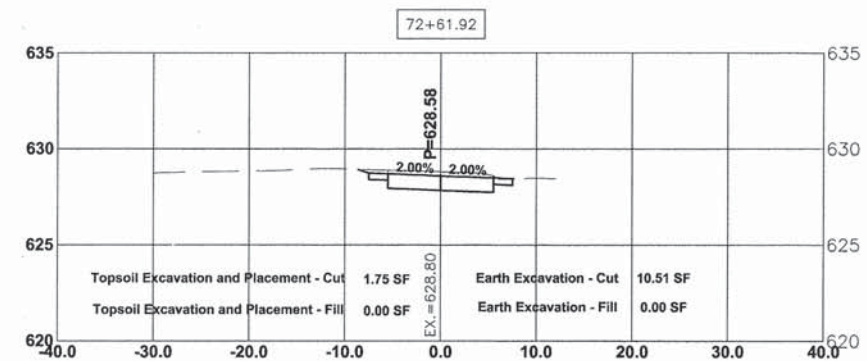
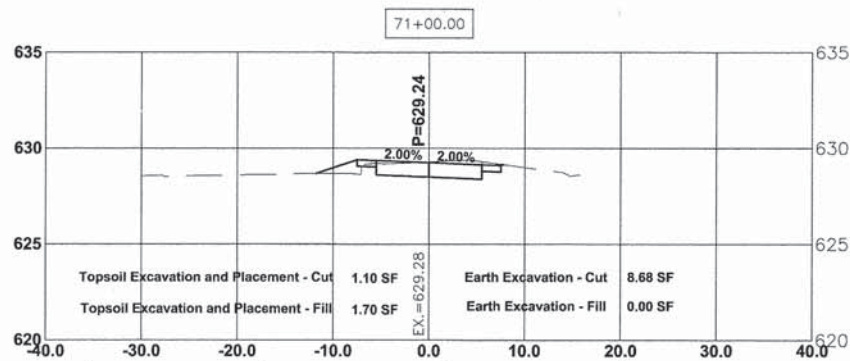
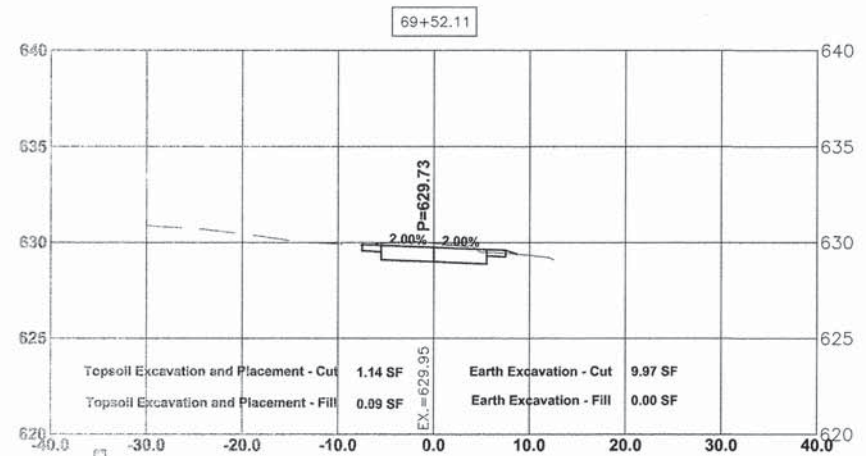
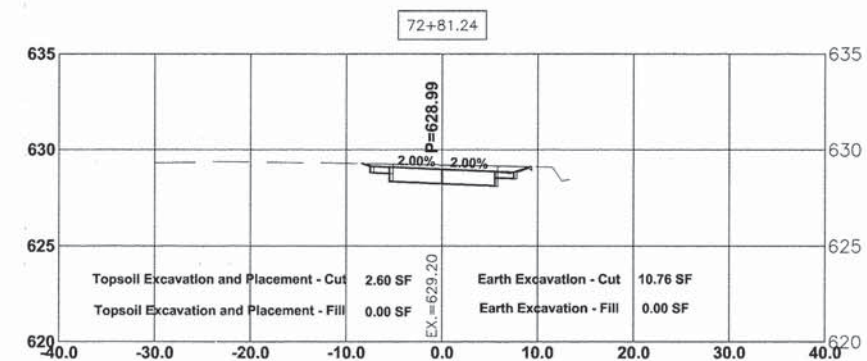
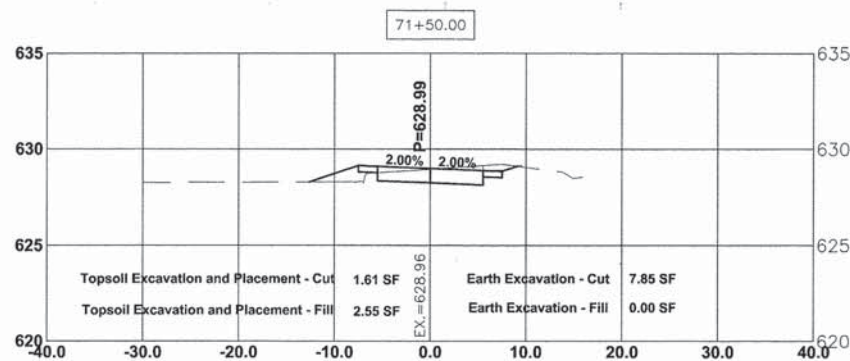
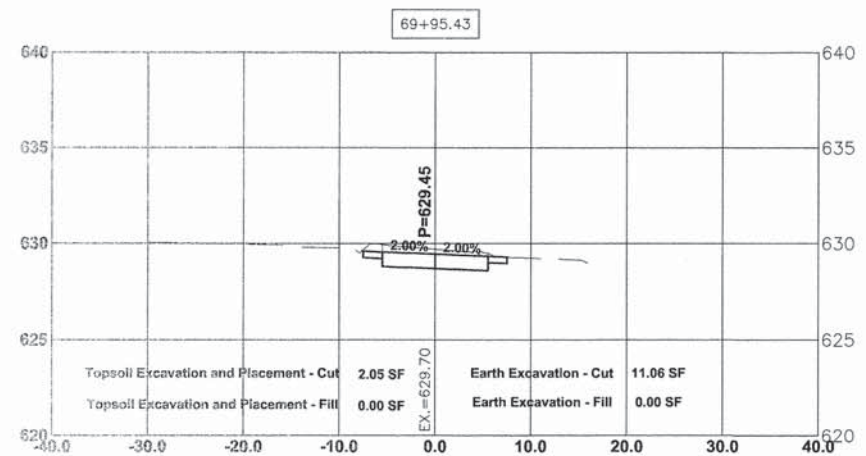
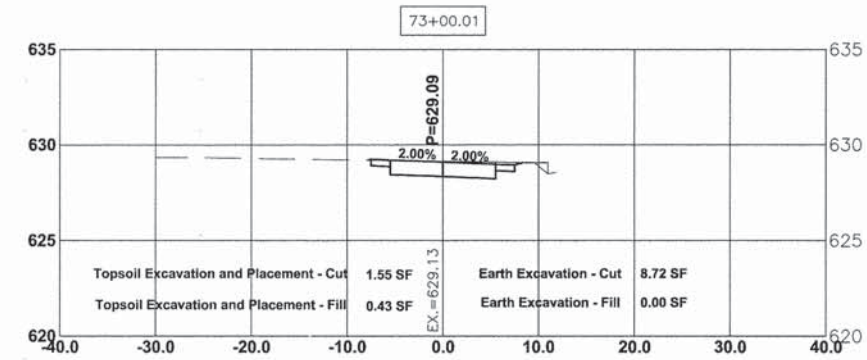
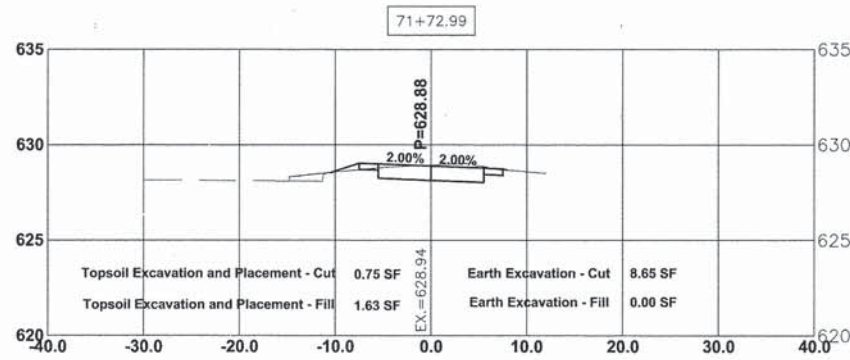
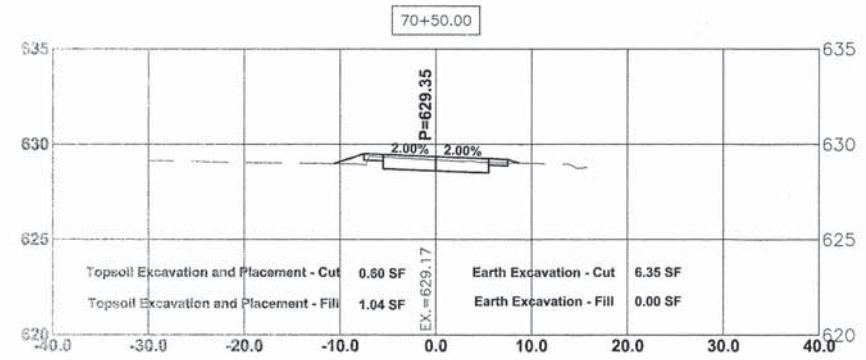
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 11 OF 30 SHEETS STA. 65+00 TO STA. 69+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	135
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

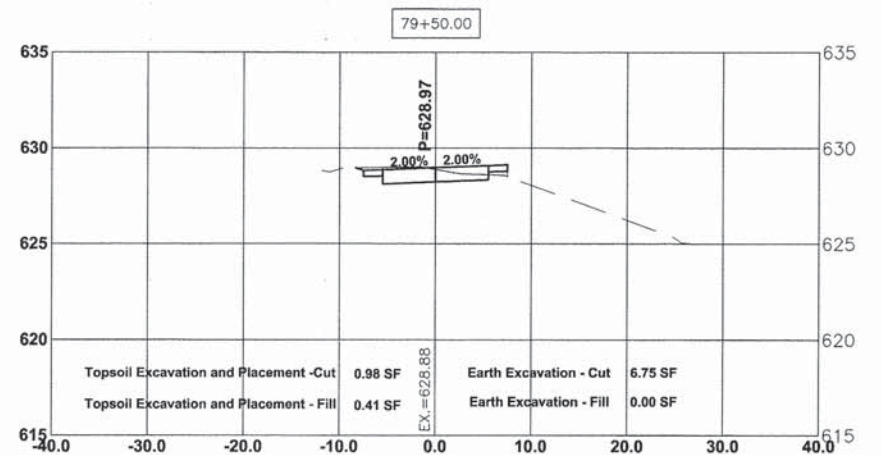
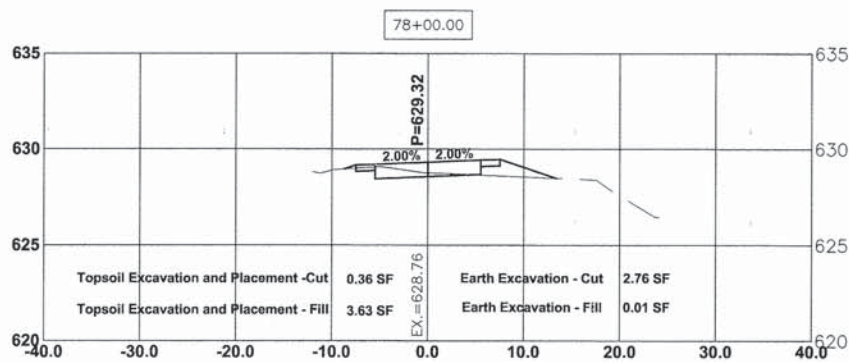
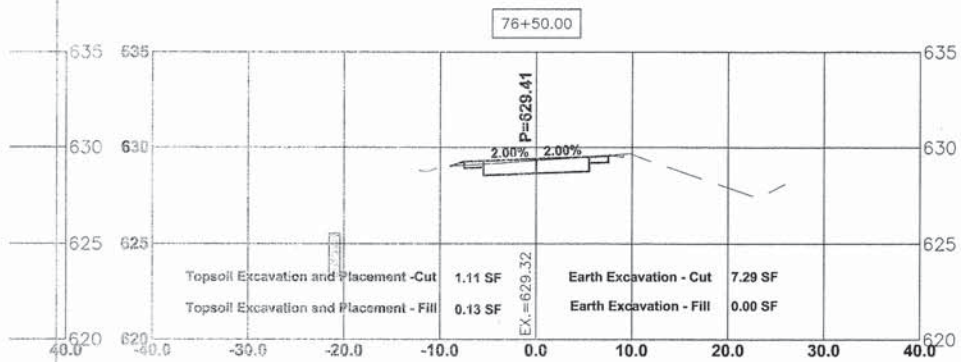
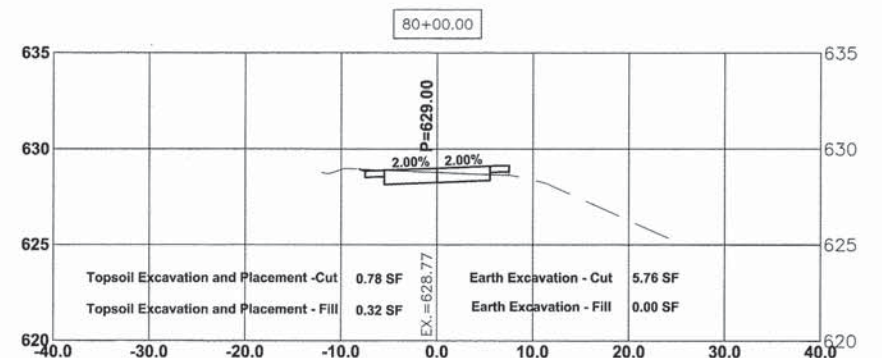
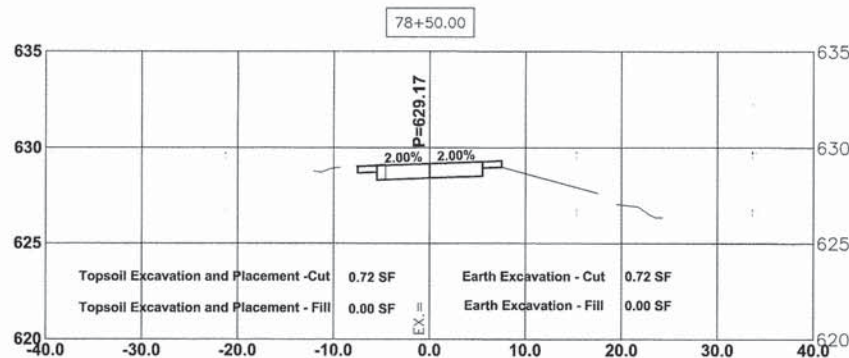
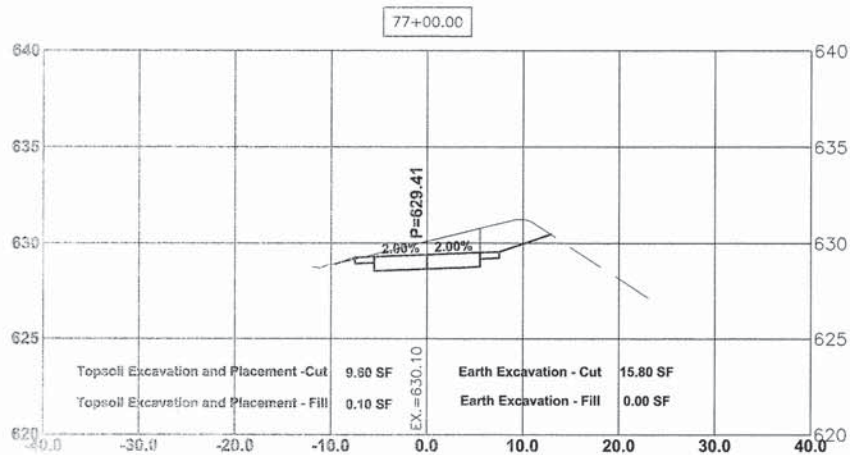
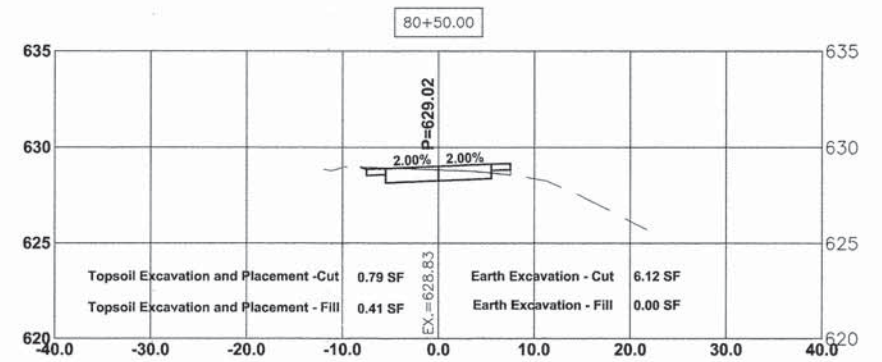
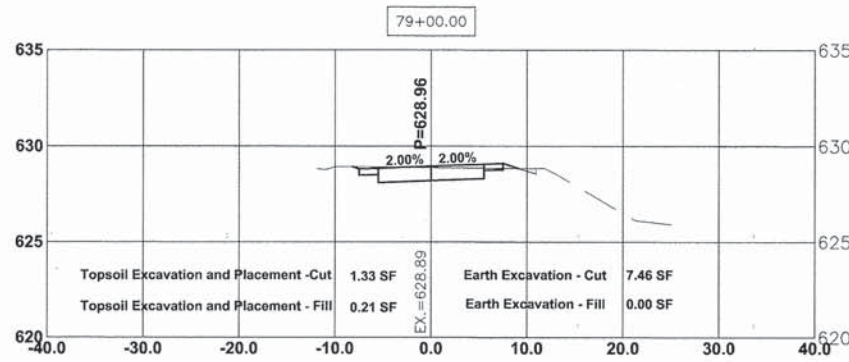
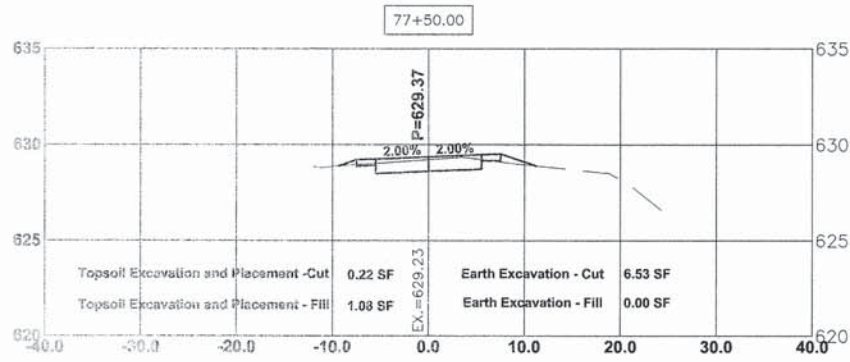
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 12 OF 30 SHEETS STA. 69+52 TO STA. 73+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	136
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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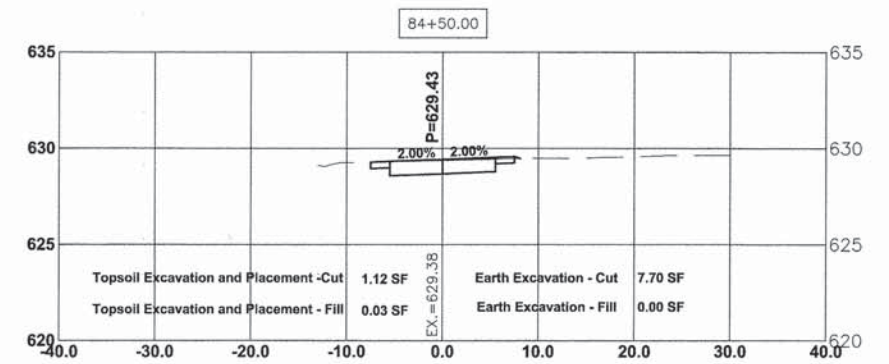
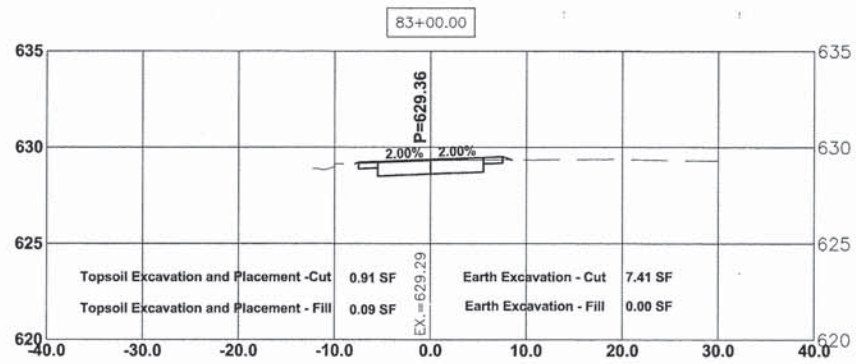
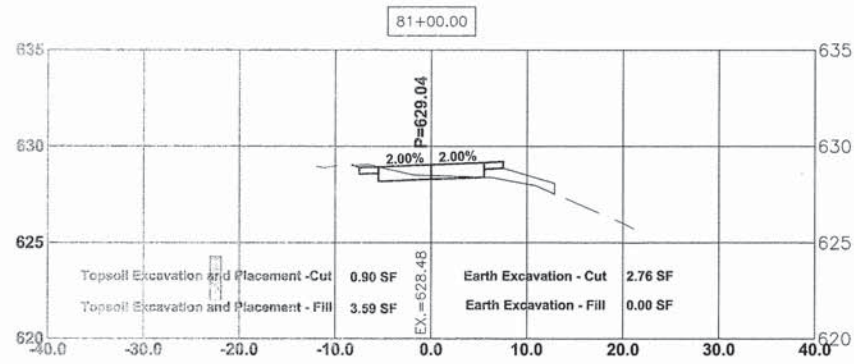
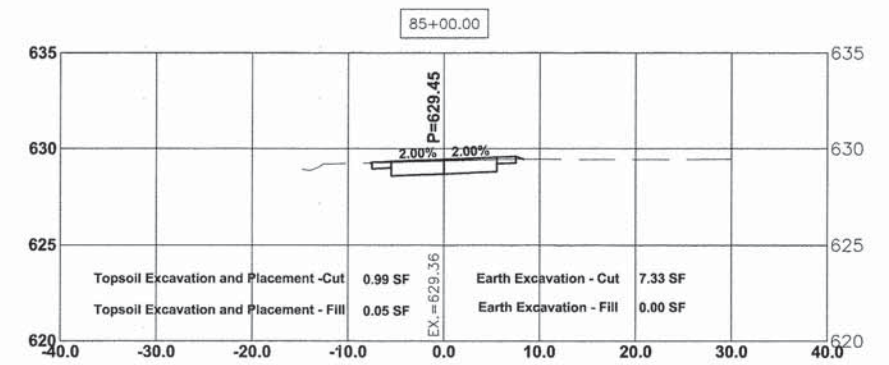
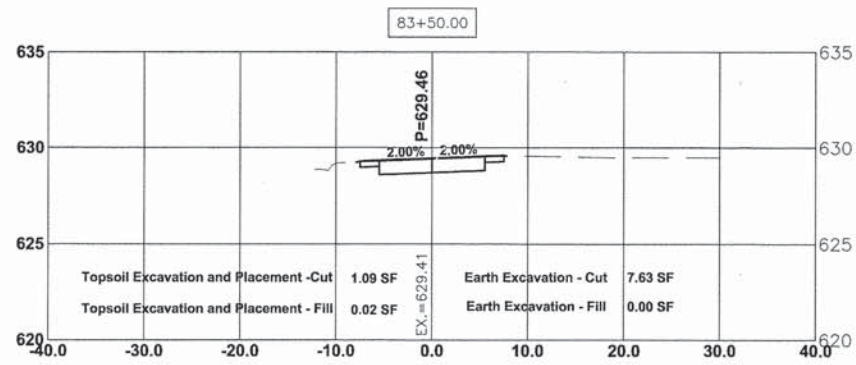
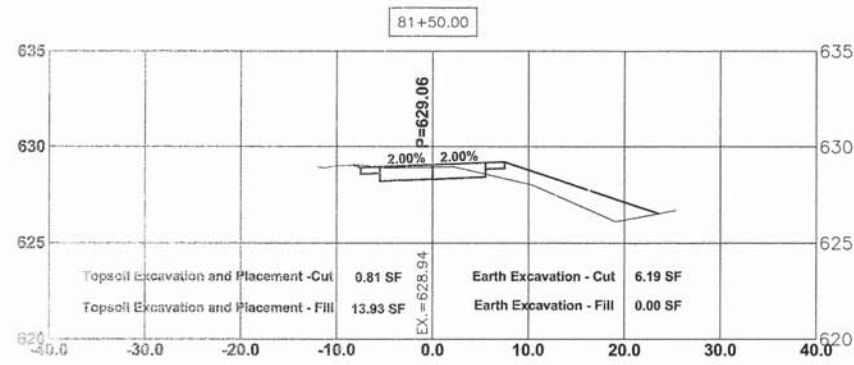
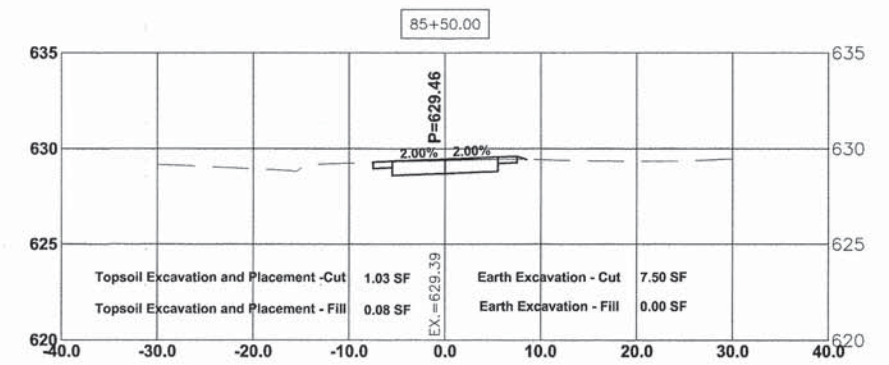
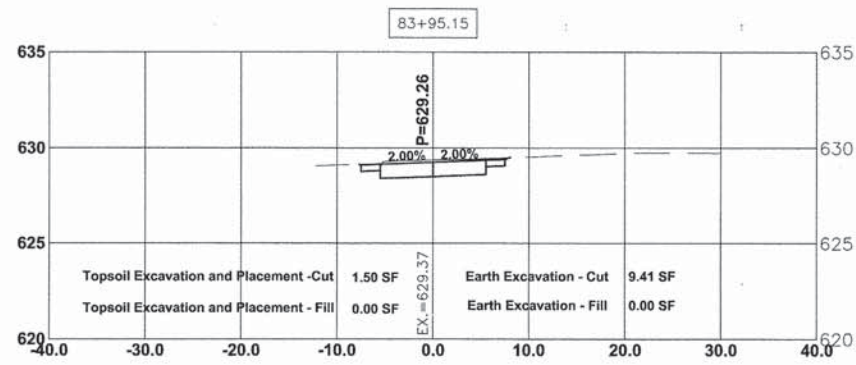
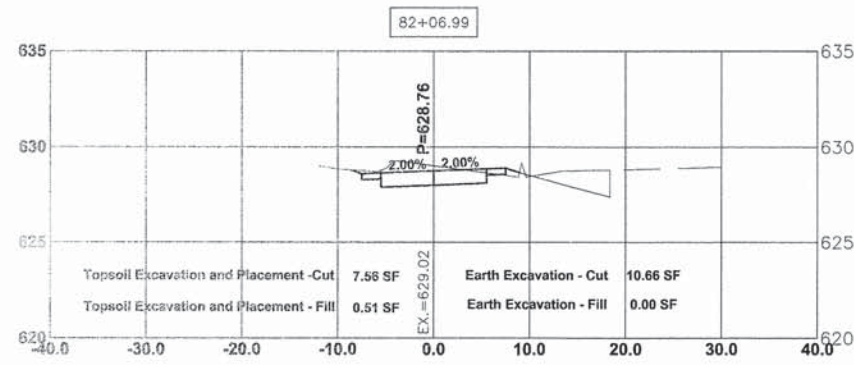
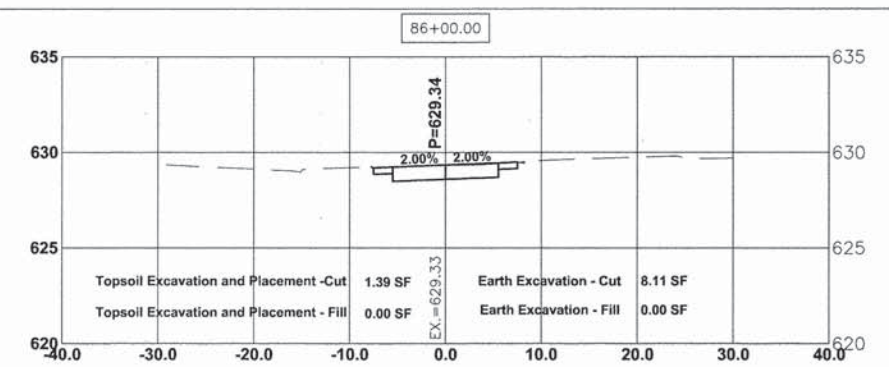
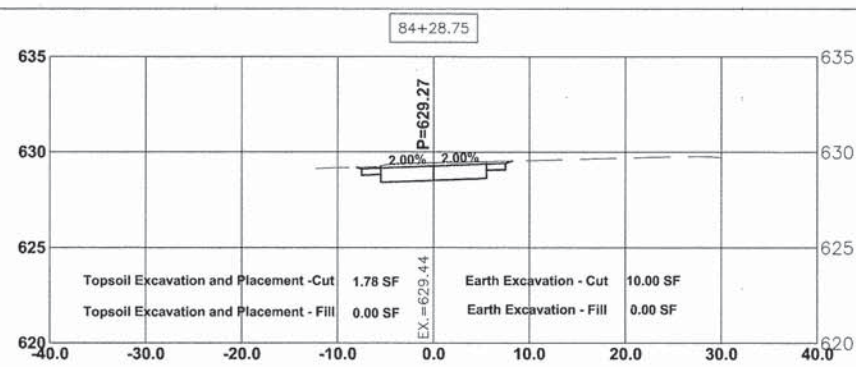
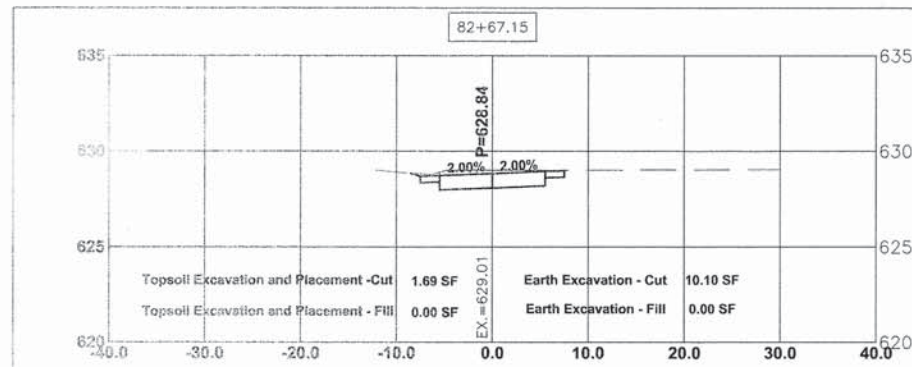
NORTH AVENUE
STATION CROSS SECTIONS

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 13 OF 30 SHEETS STA. 76+50 TO STA. 80+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	137
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

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DEPARTMENT OF TRANSPORTATION

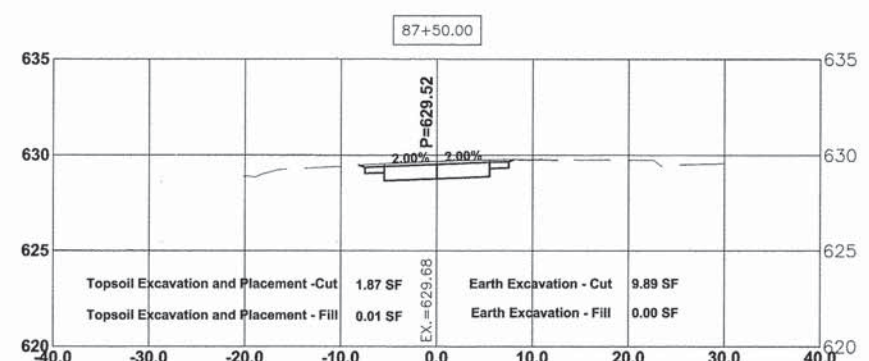
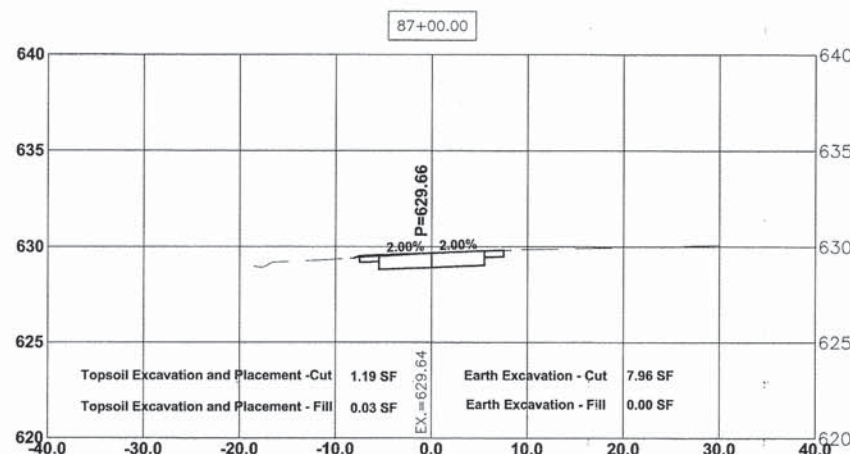
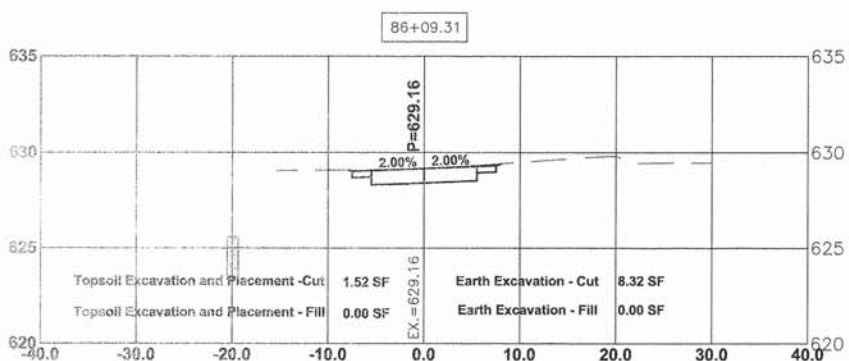
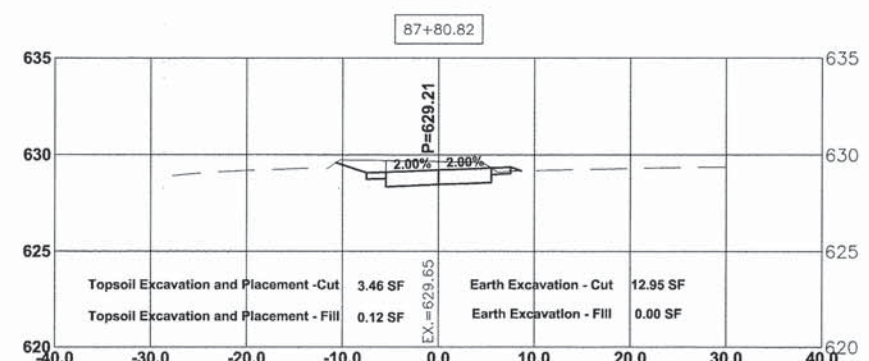
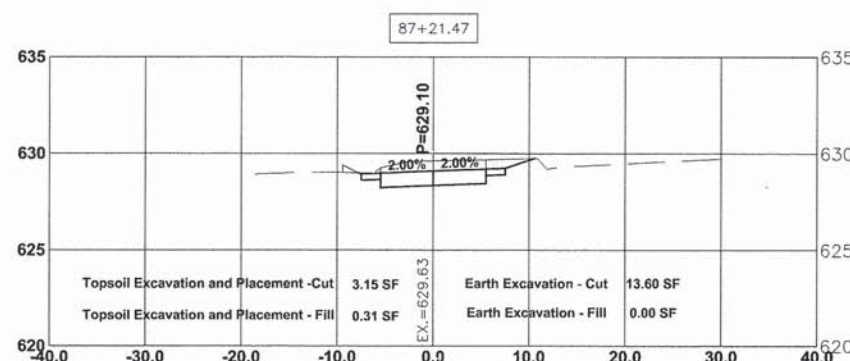
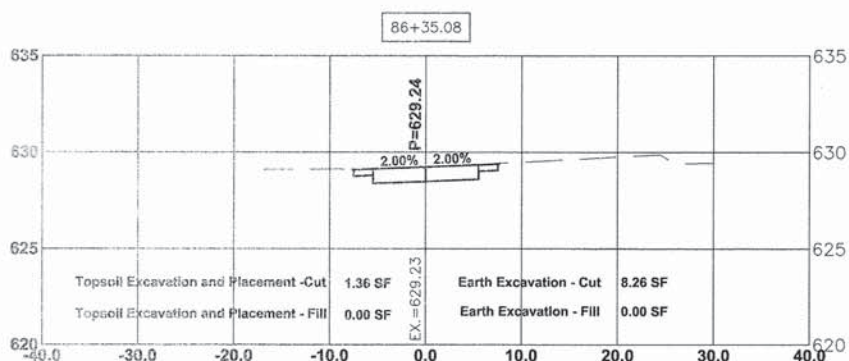
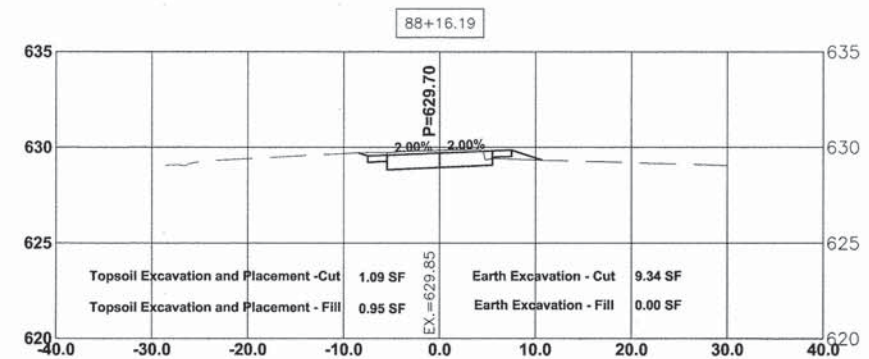
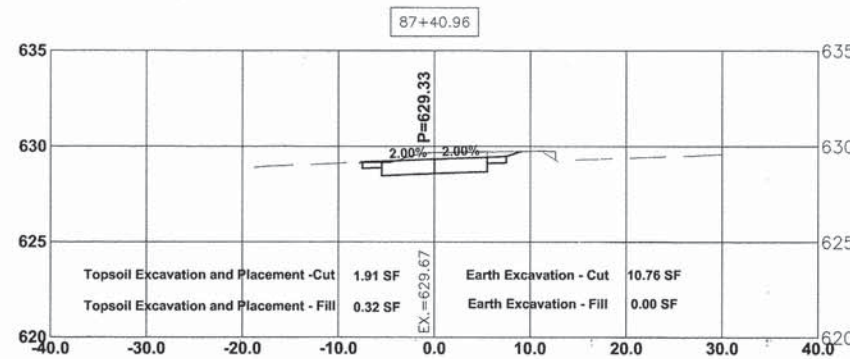
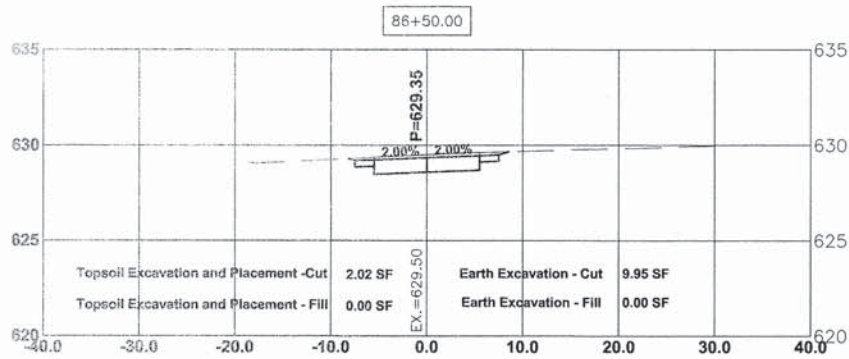
NORTH AVENUE
STATION CROSS SECTIONS

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 14 OF 30 SHEETS STA. 81+00 TO STA. 86+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	138
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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DRAWN -	DMM, MK	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

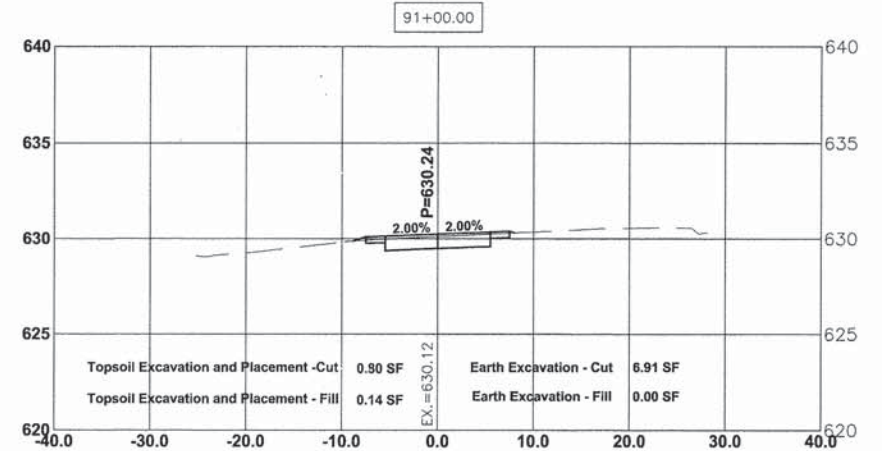
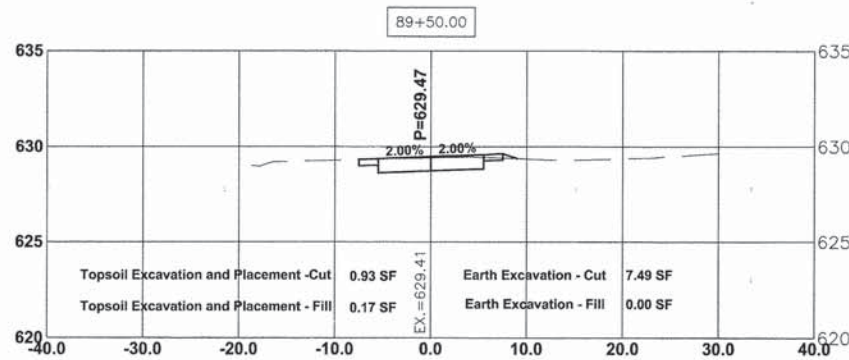
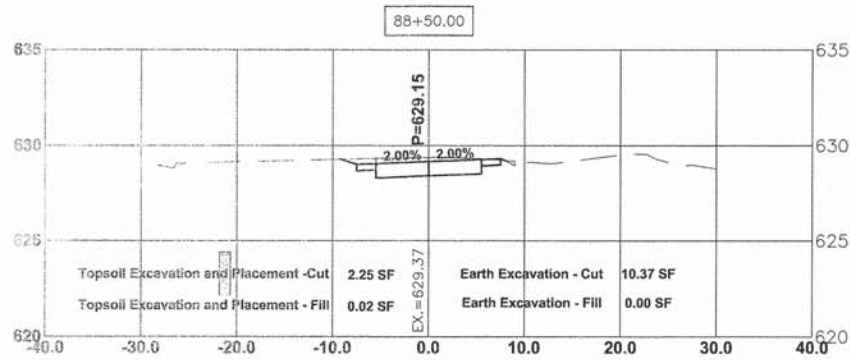
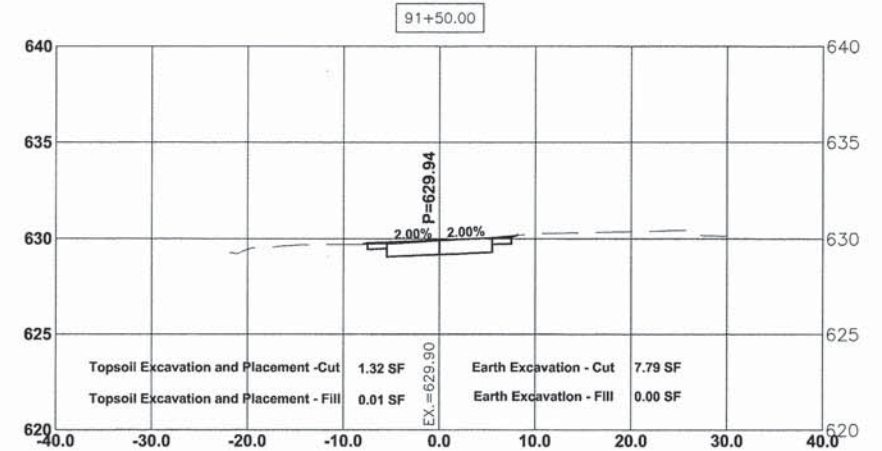
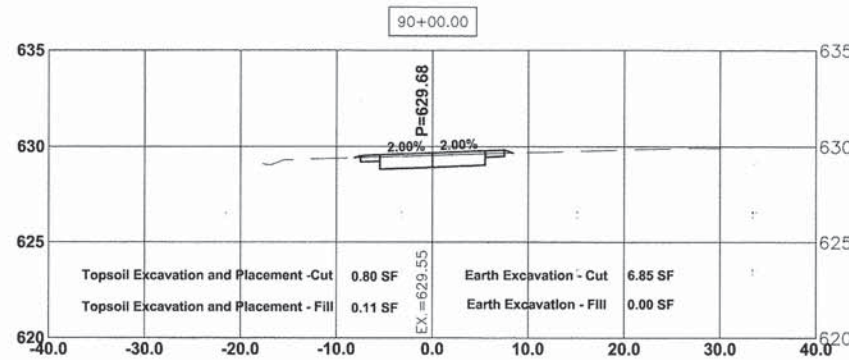
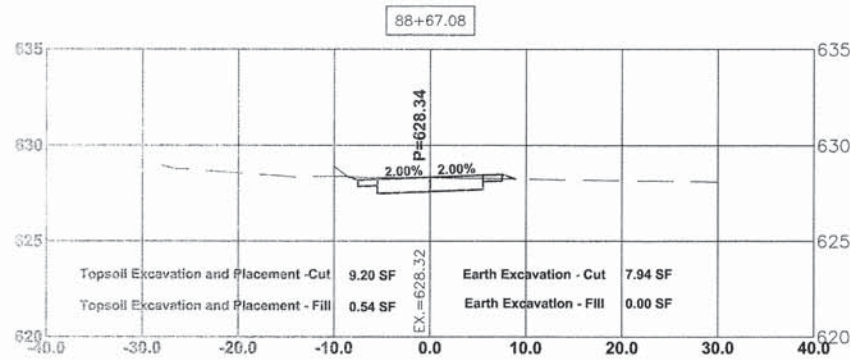
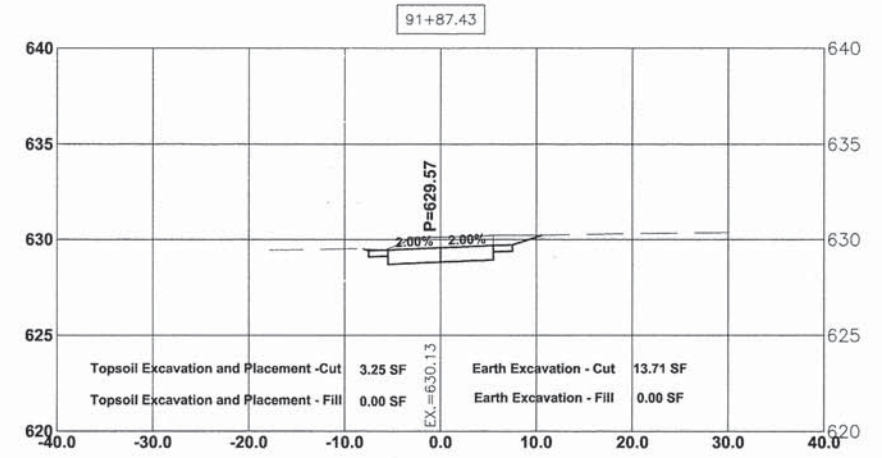
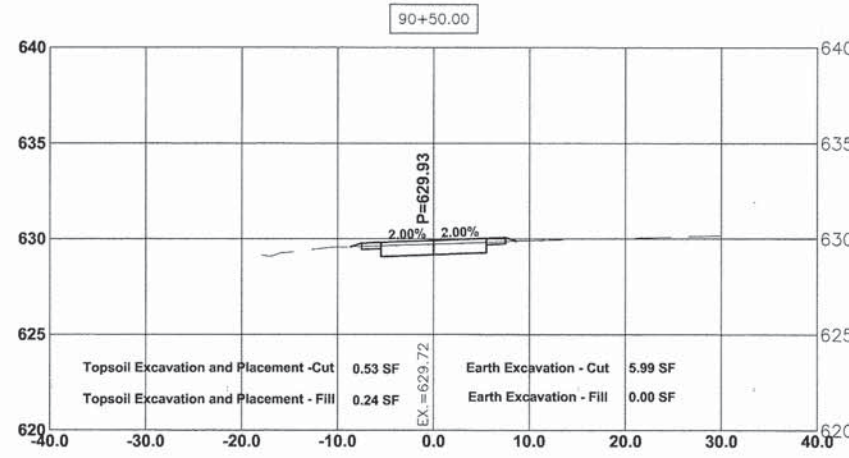
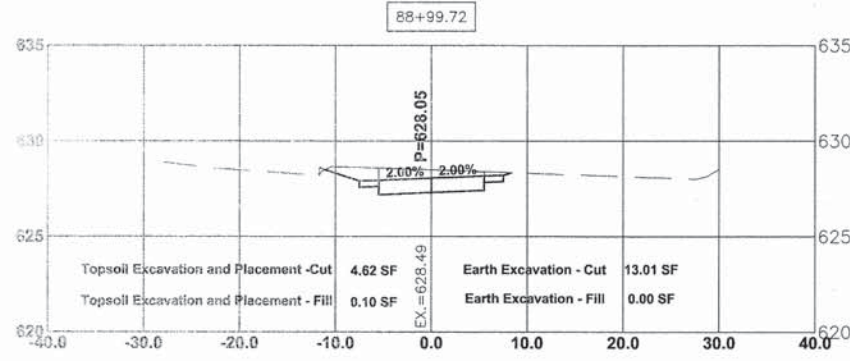
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 15 OF 30 SHEETS STA. 86+09 TO STA. 88+15

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	139
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing File: R:\Projects\23-Village\Melrose Park\600-1140 - North Ave Commuter Bicycle Path\Site\NORTH_AVE_2.dwg Aug 04, 2015 - 5:13pm



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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

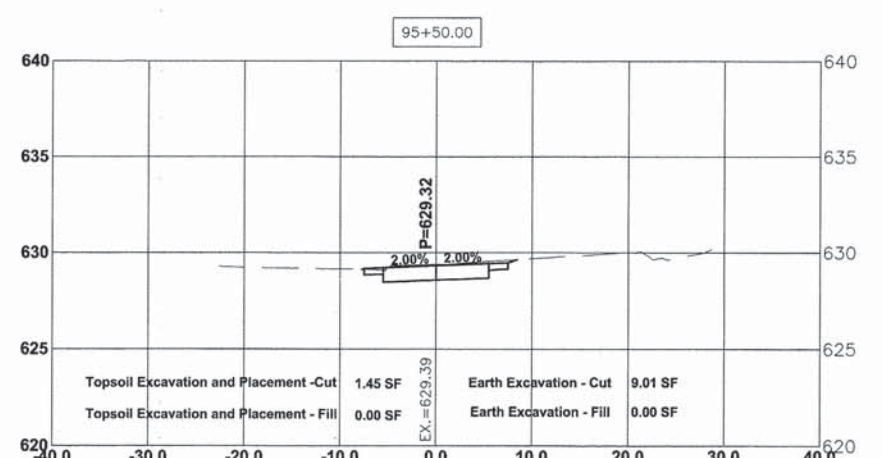
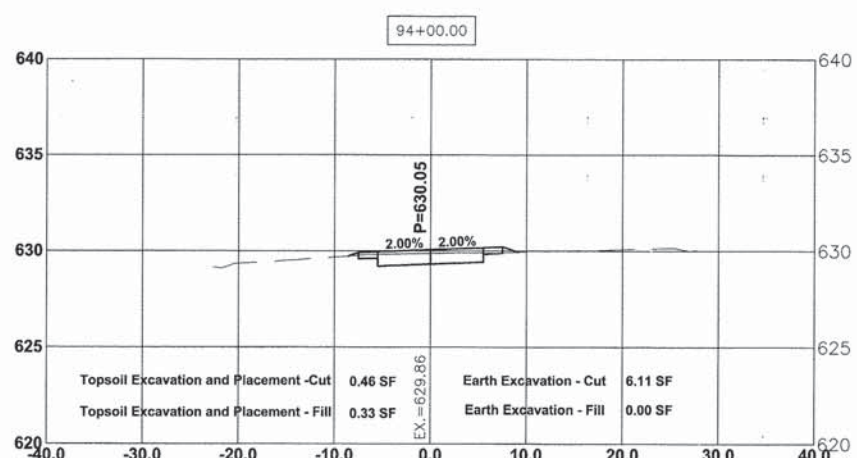
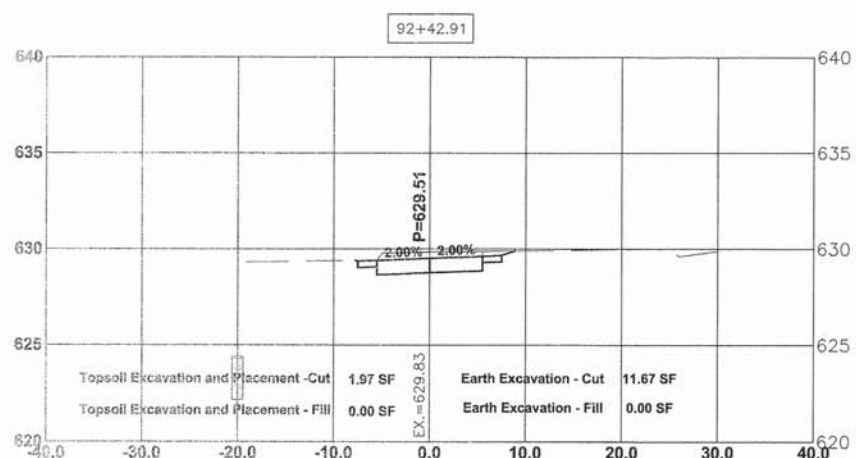
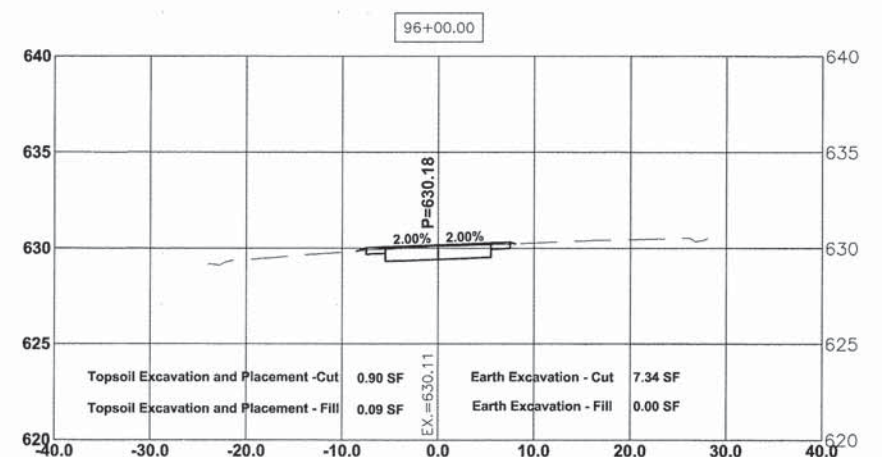
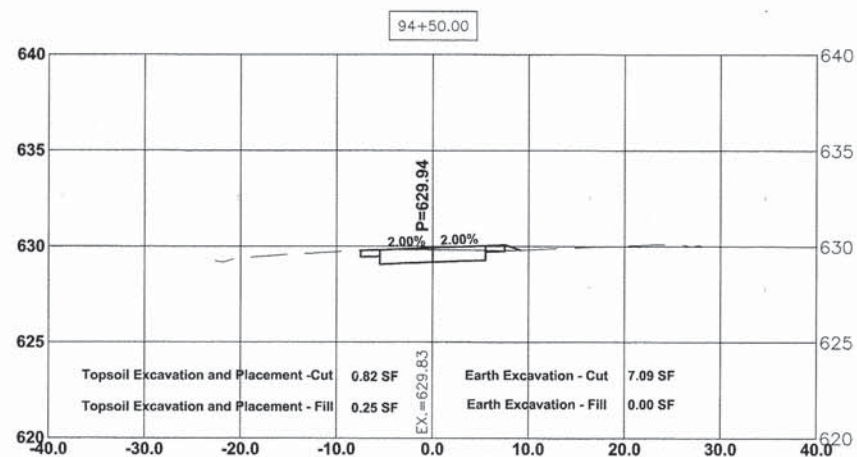
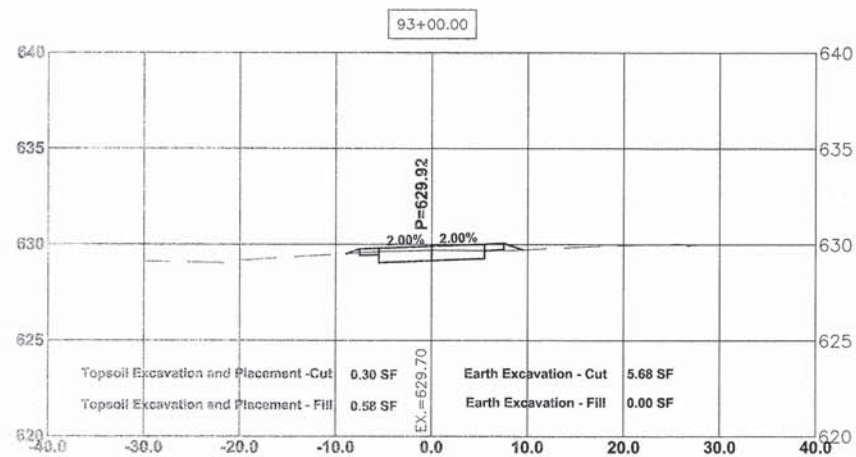
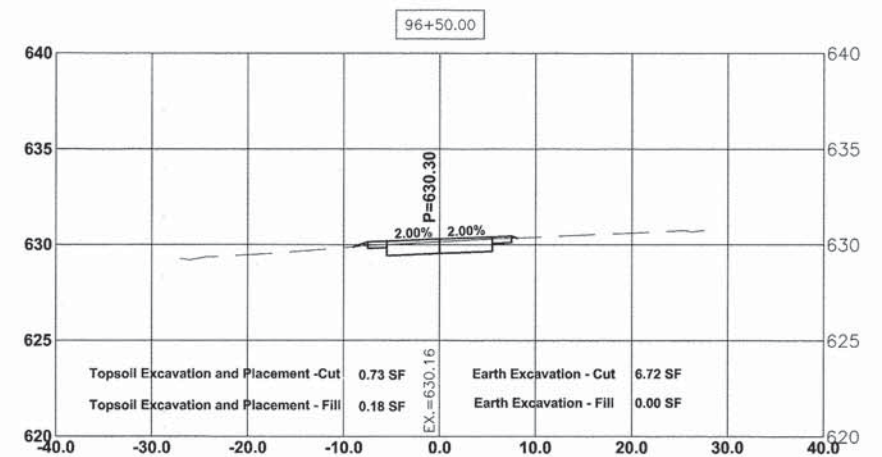
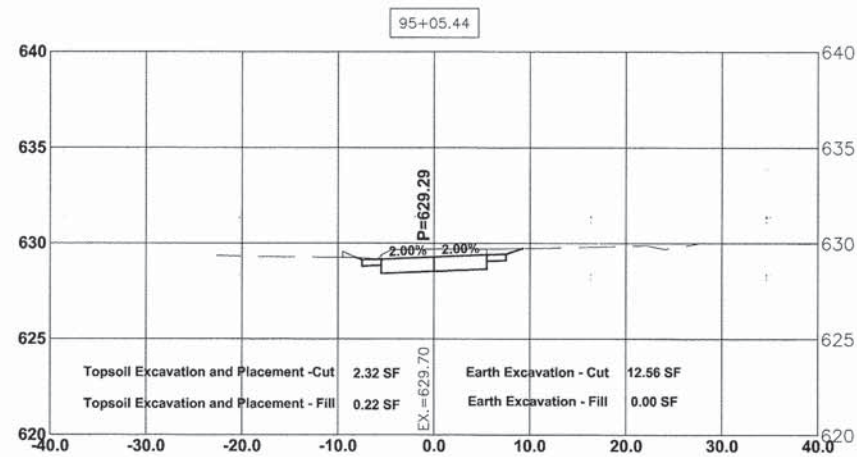
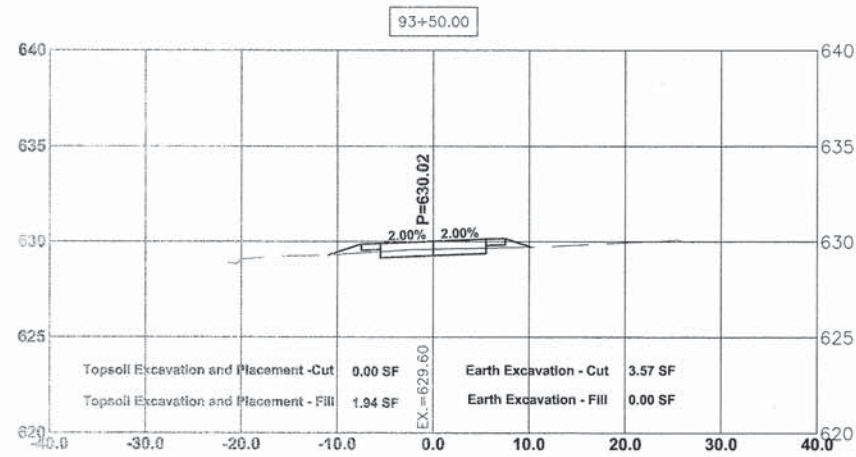
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 16 OF 30 SHEETS STA. 88+50 TO STA. 91+87

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	140
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

Drawing: R:\Projects\2015\North Ave Commuter Bicycle Path\Site\North_Ave_2.dwg Aug 04, 2015 - 5:13pm



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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

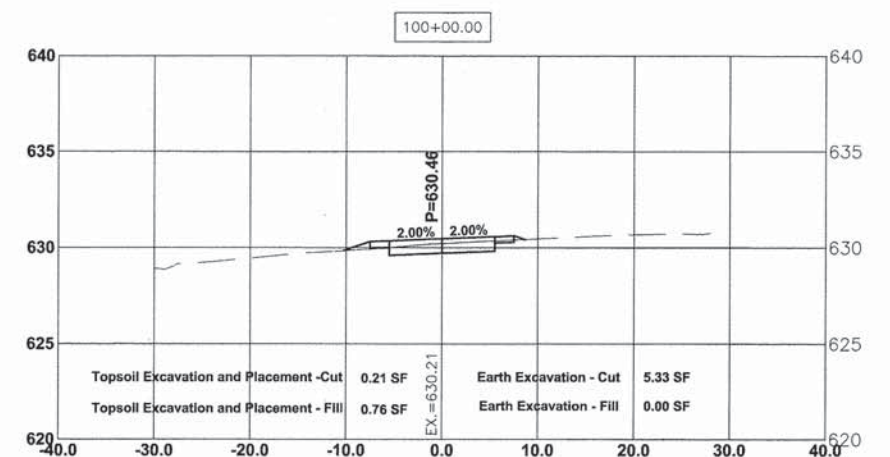
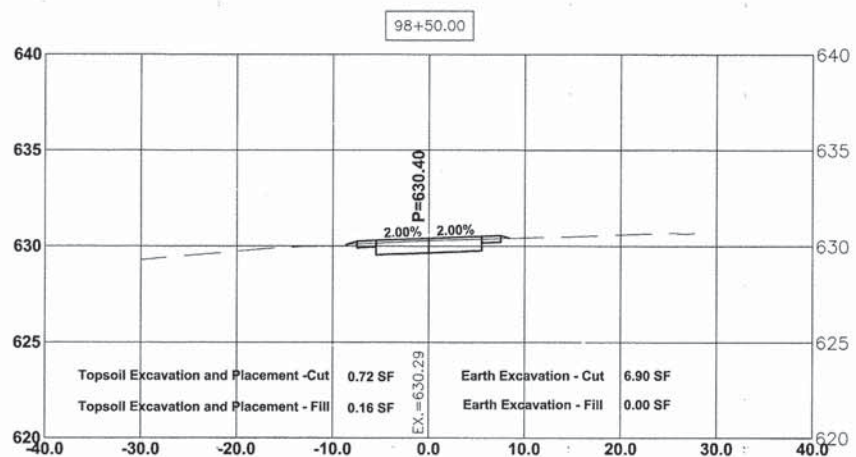
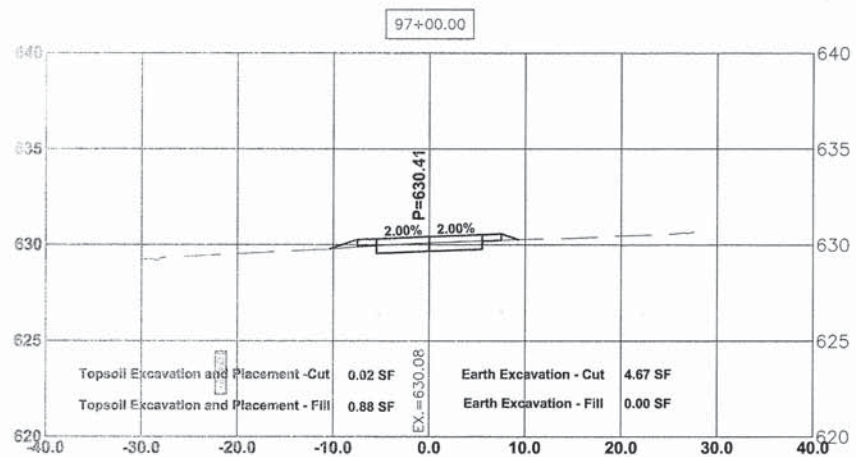
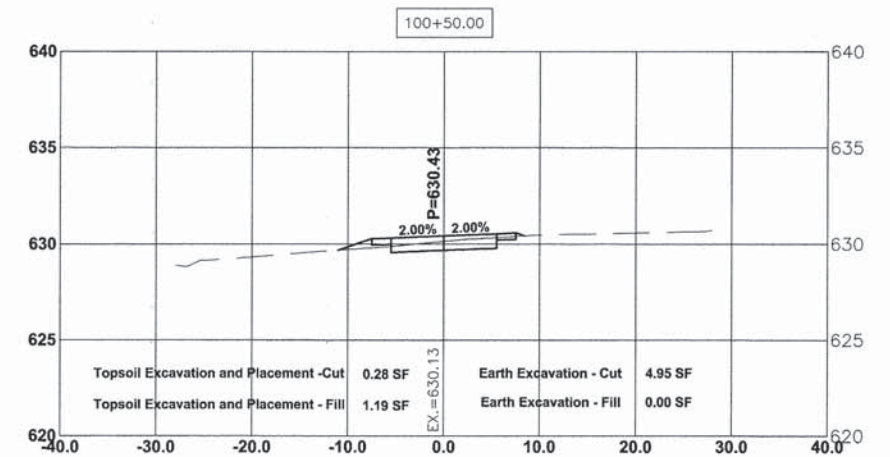
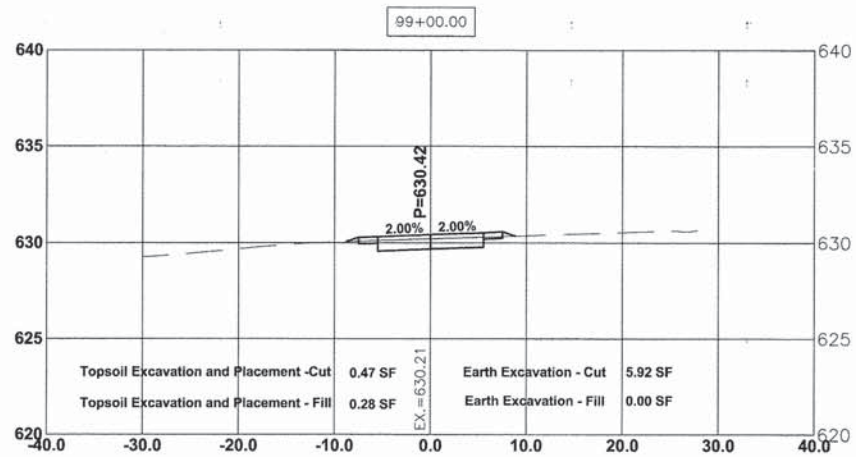
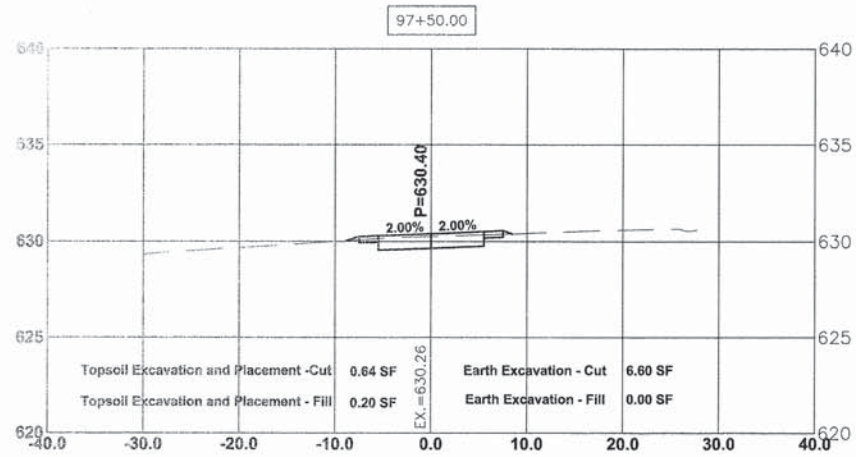
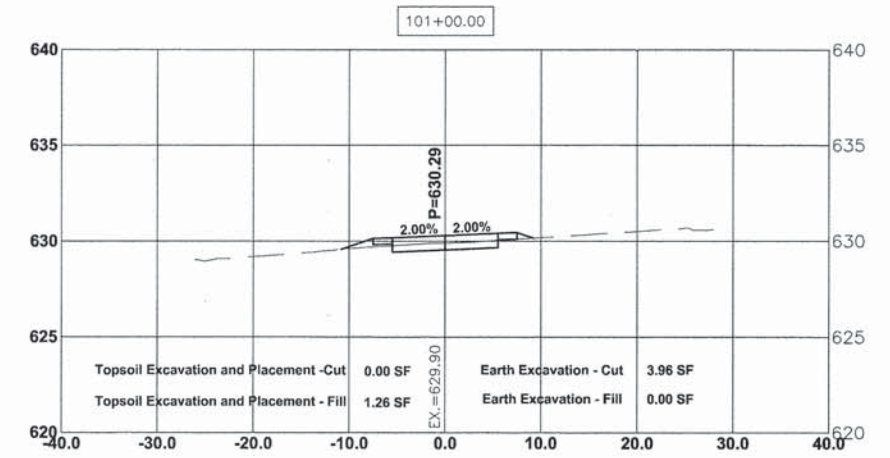
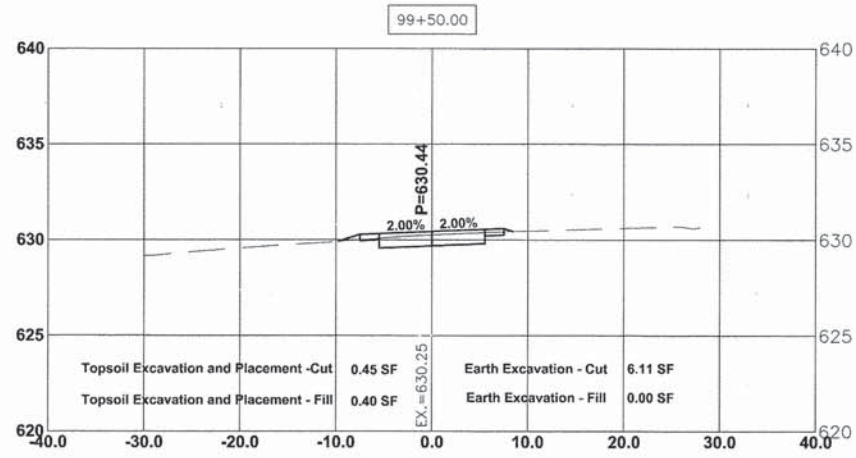
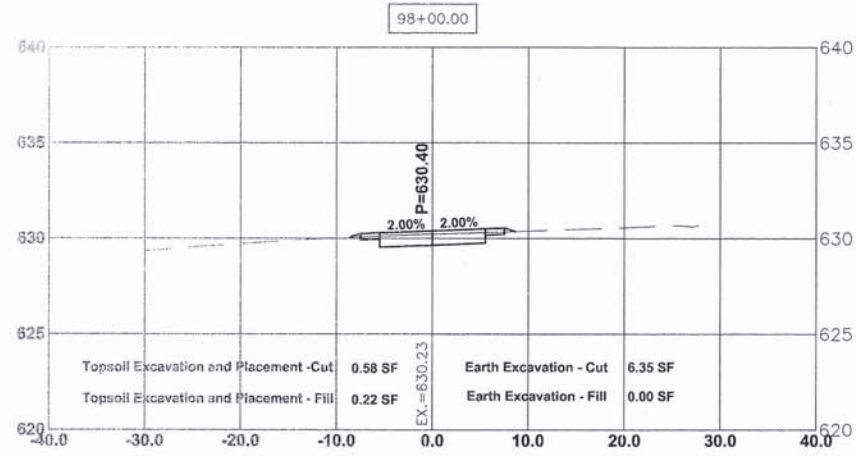
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V.	SHEET NO. 17 OF 30 SHEETS	STA. 92+42	TO STA. 96+50
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MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	141
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

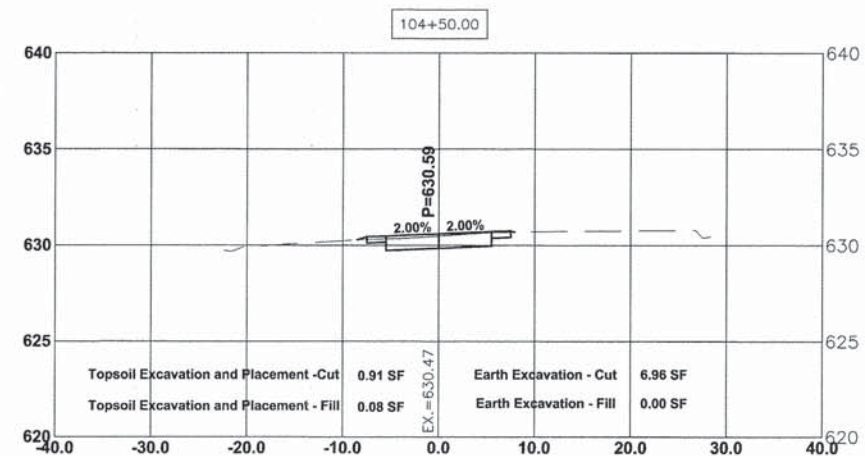
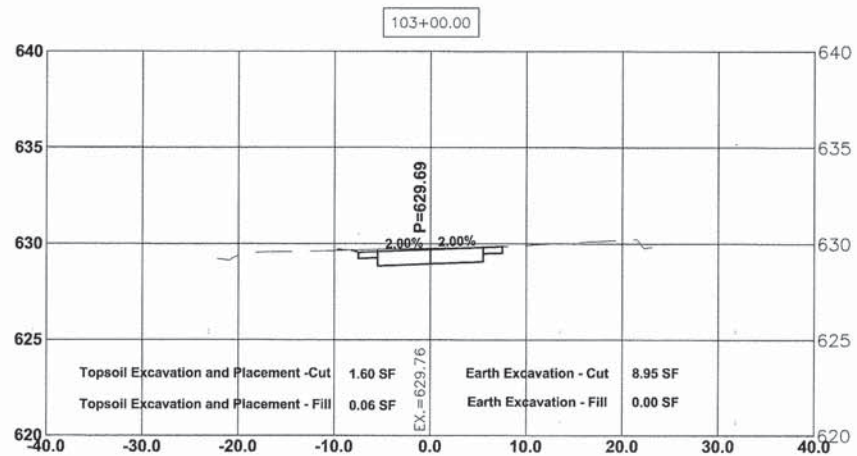
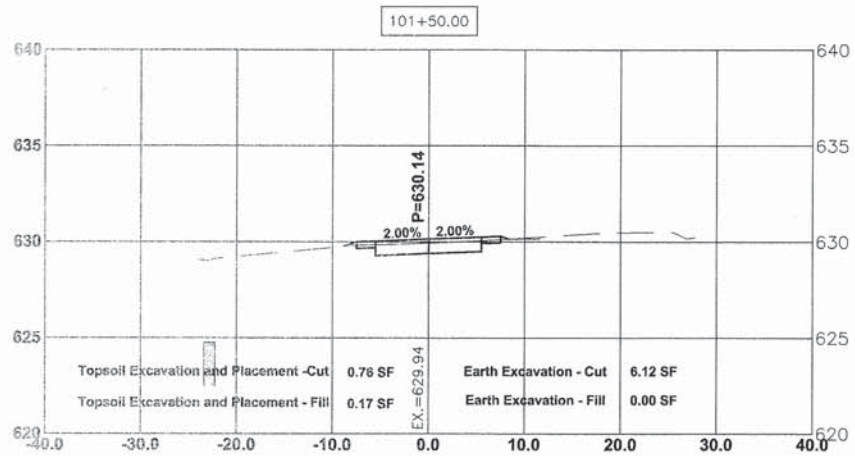
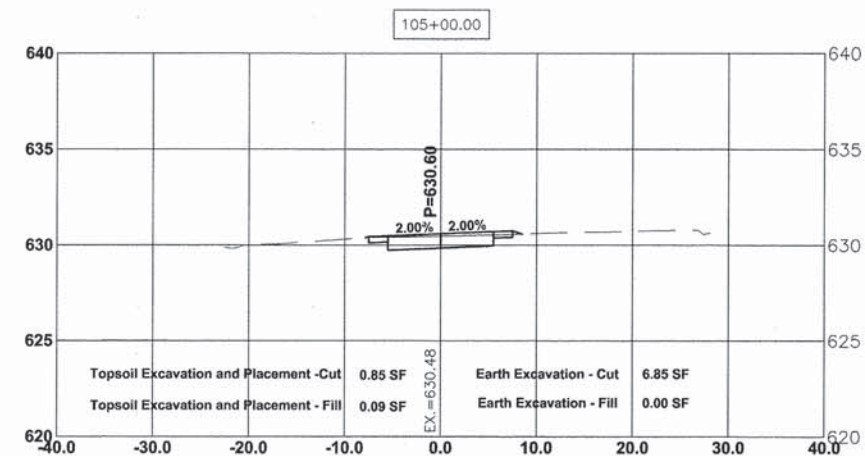
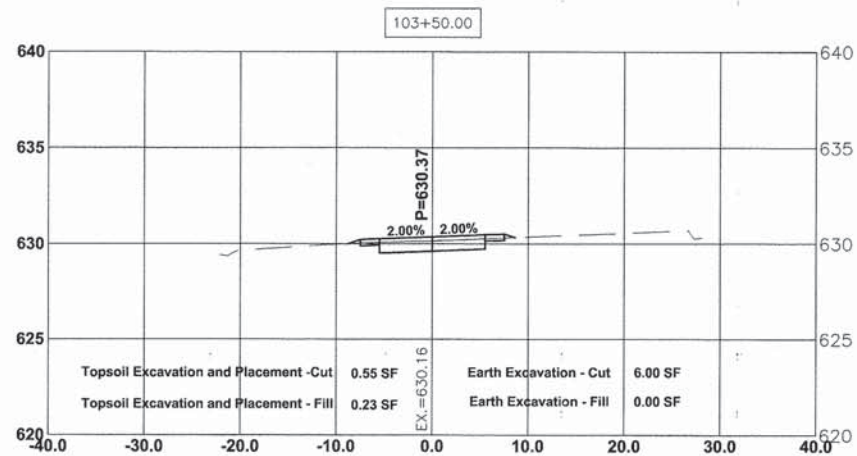
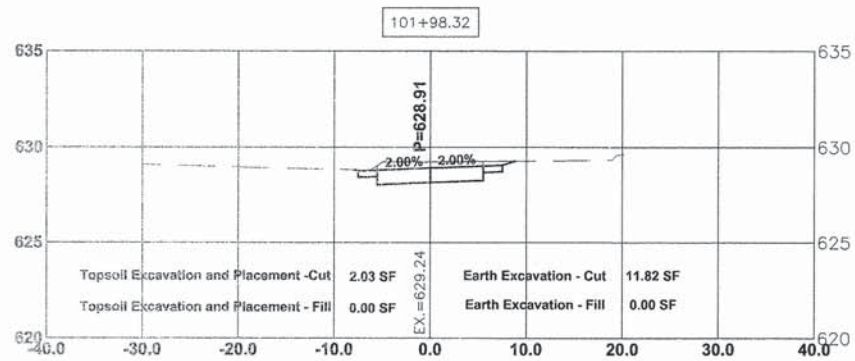
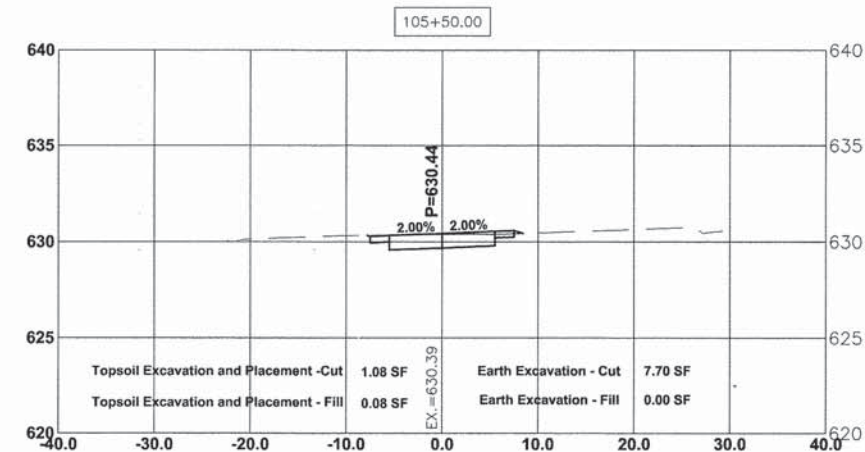
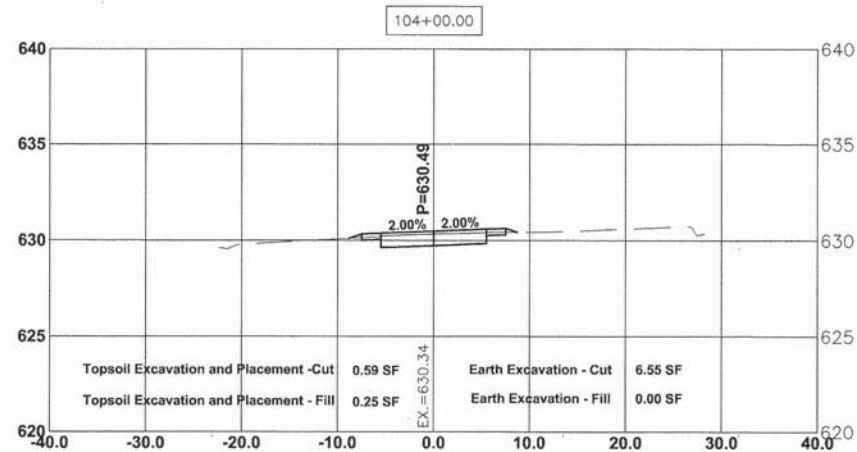
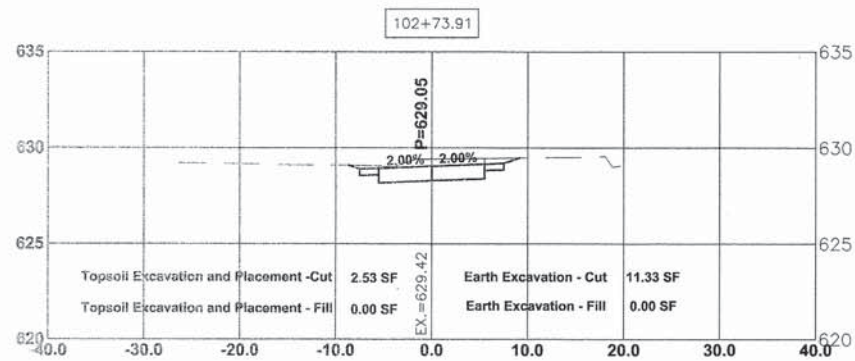
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 18 OF 30 SHEETS STA. 97+00 TO STA. 101+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	142
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

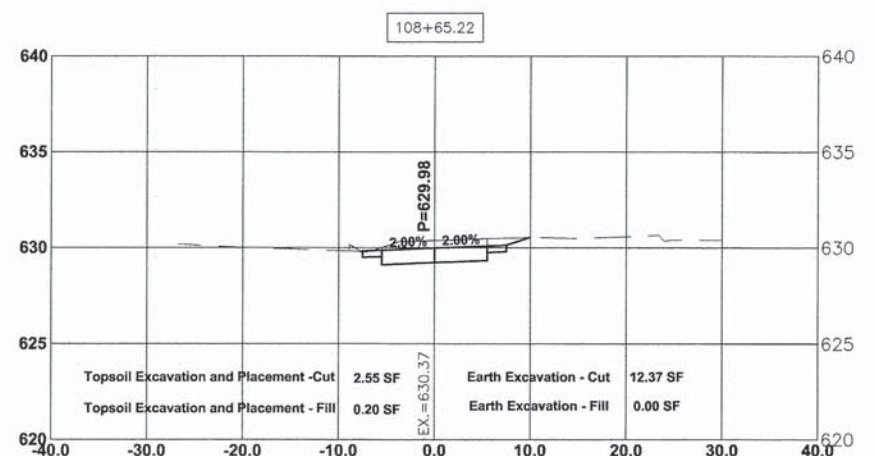
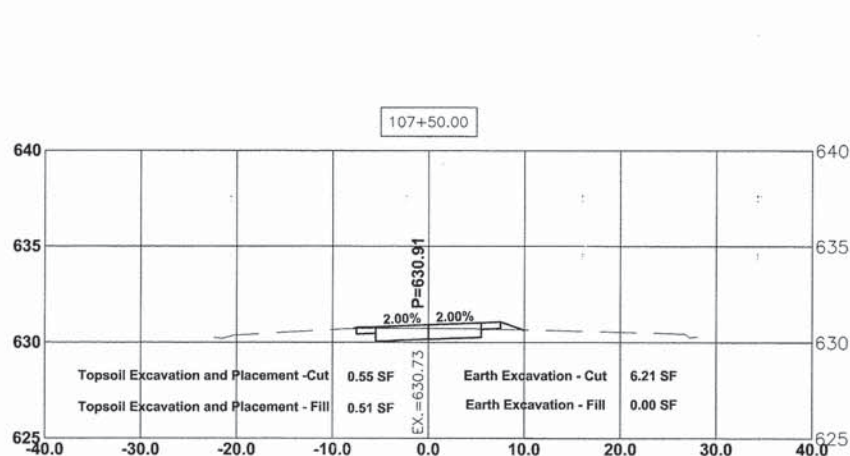
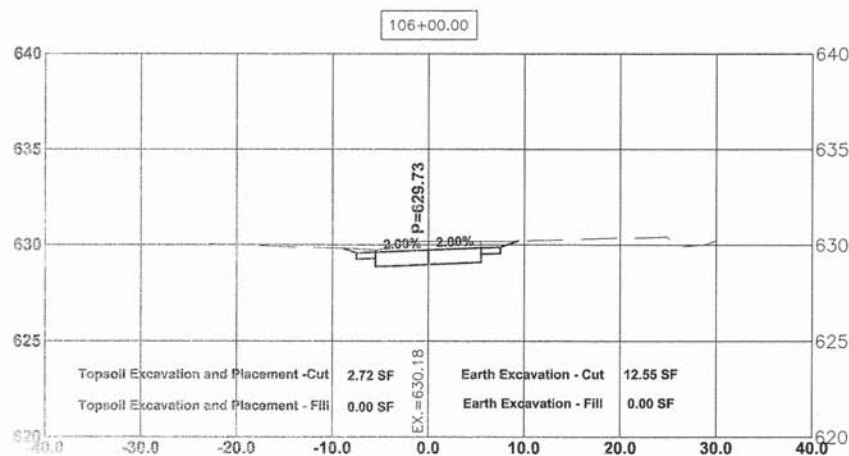
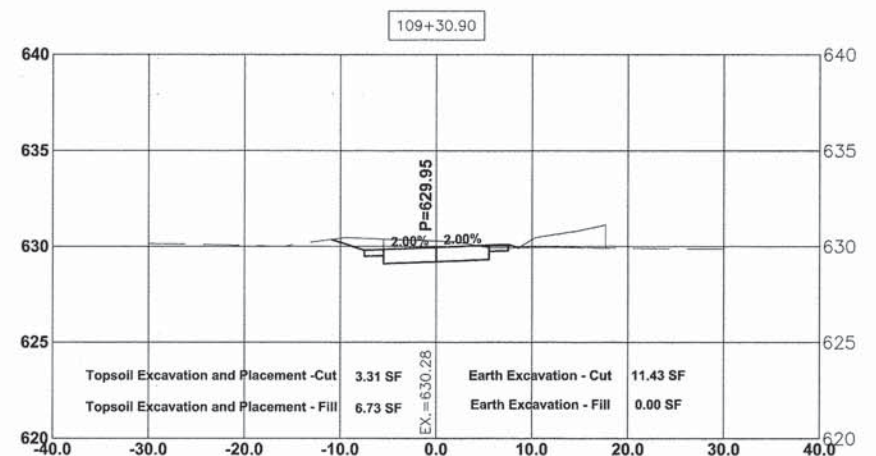
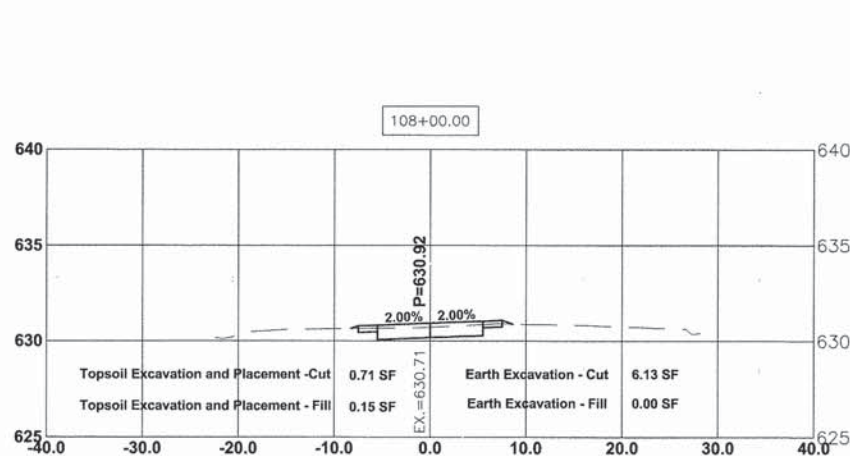
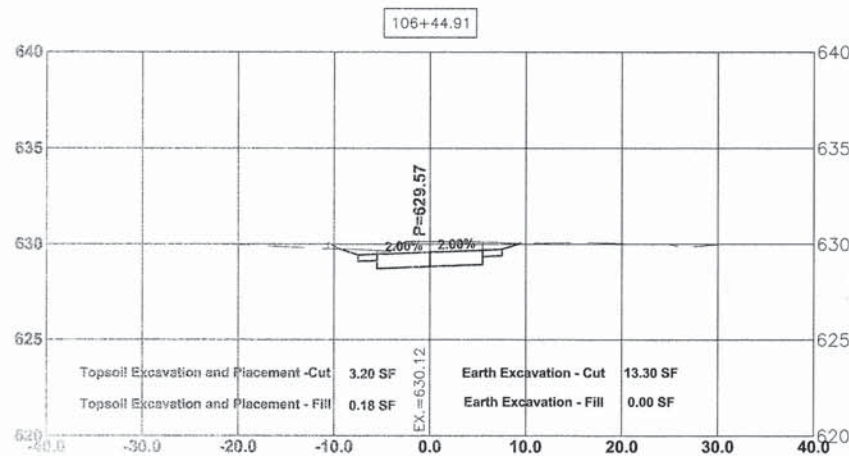
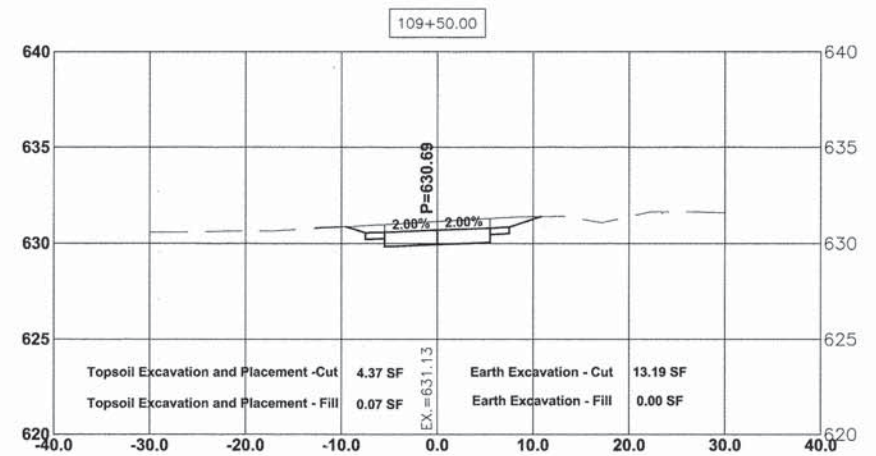
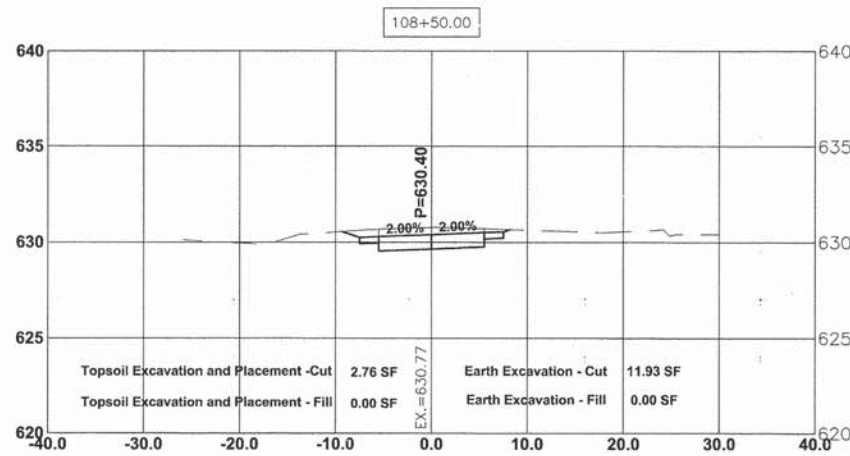
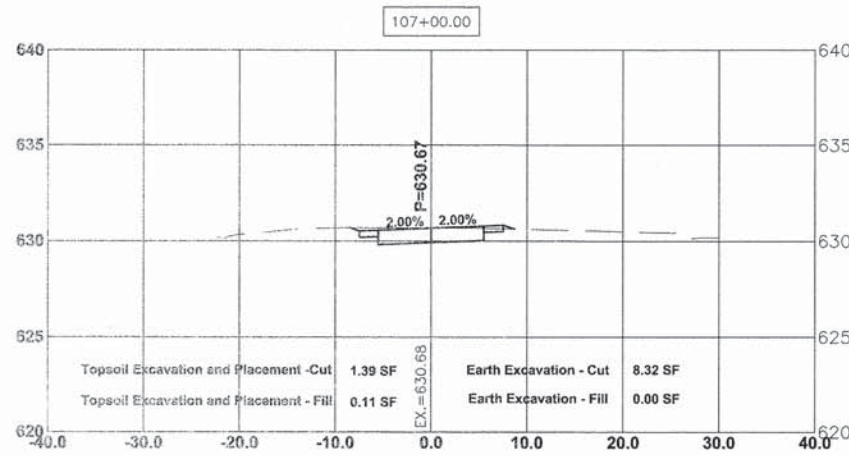
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 19 OF 30 SHEETS STA. 101+50 TO STA. 105+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	143
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

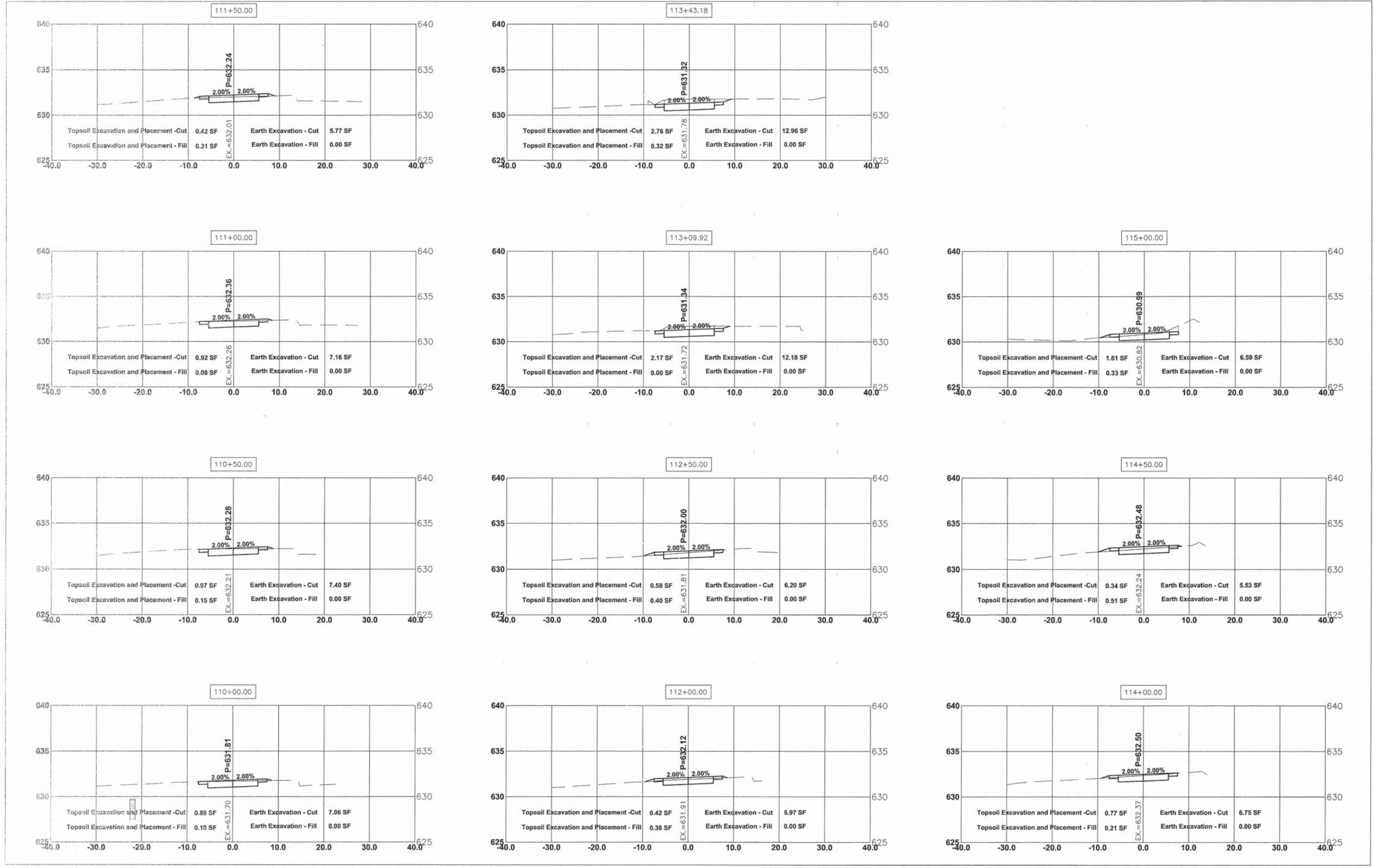
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 20 OF 30 SHEETS STA. 106+00 TO STA. 109+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	144
FIELD BOOK NO.: GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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DATE -	3-6-15	REVISED -	

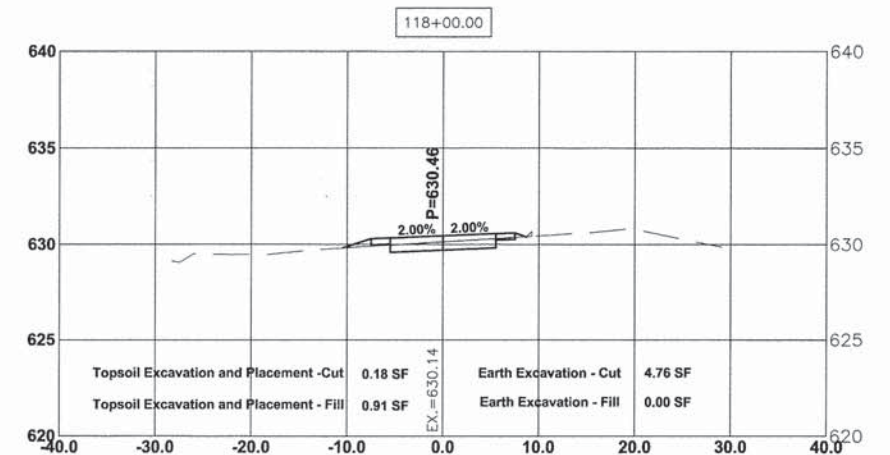
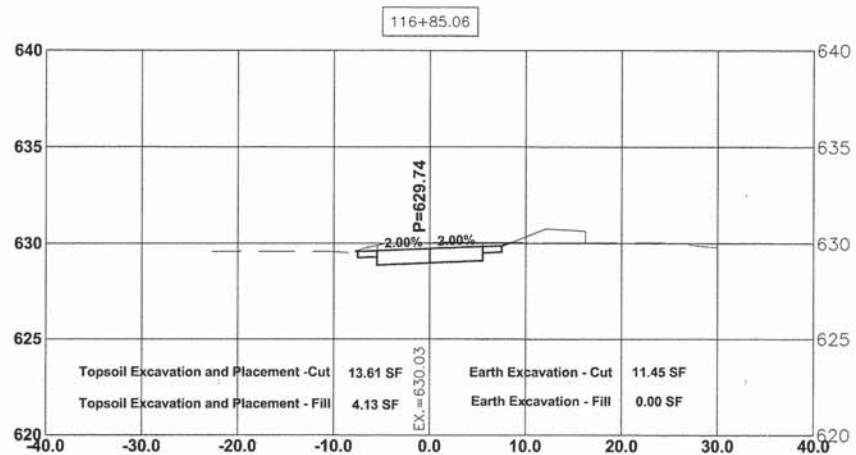
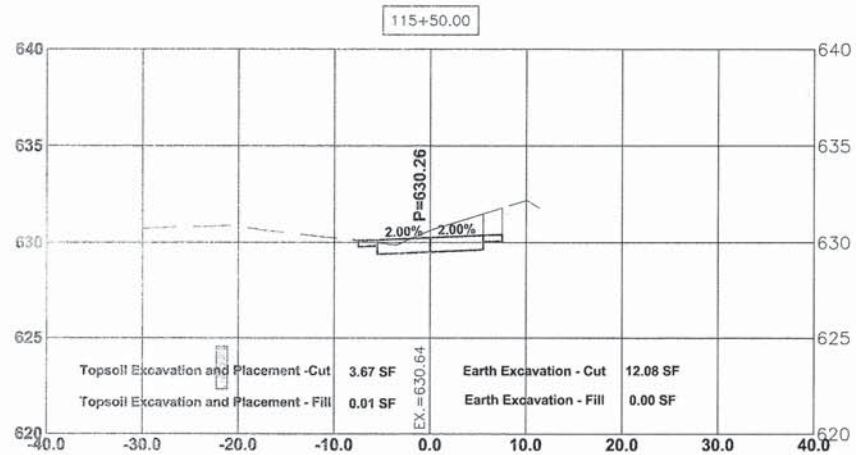
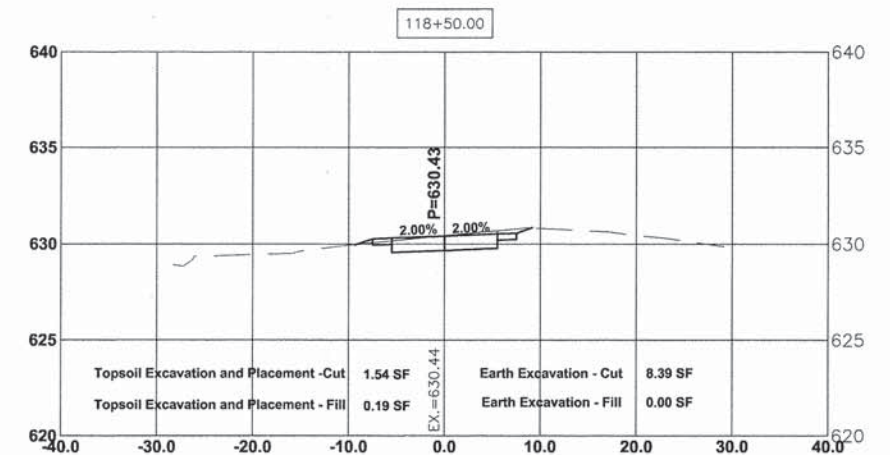
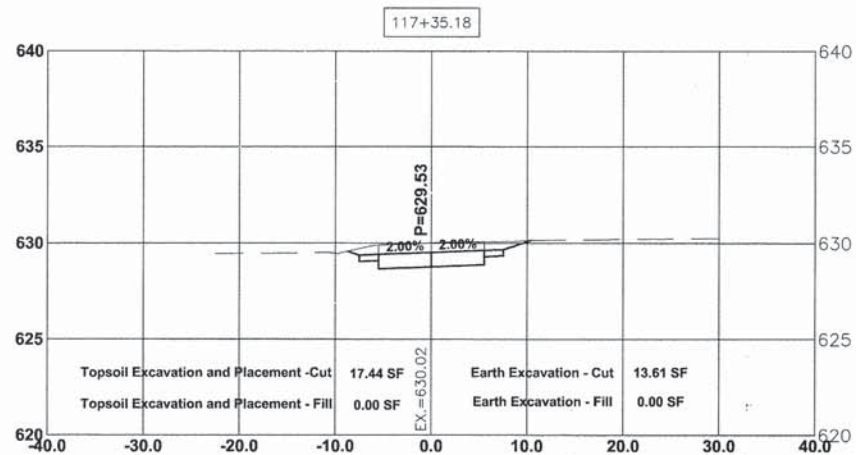
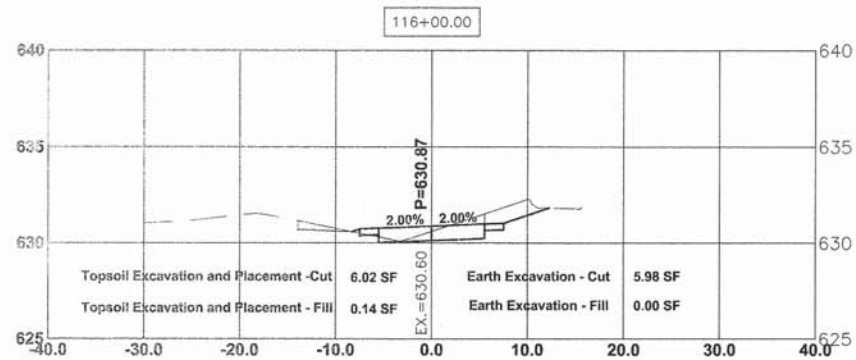
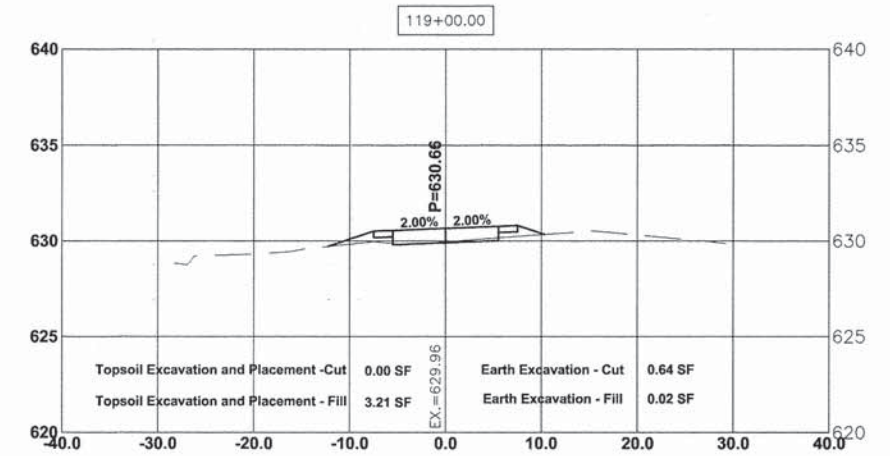
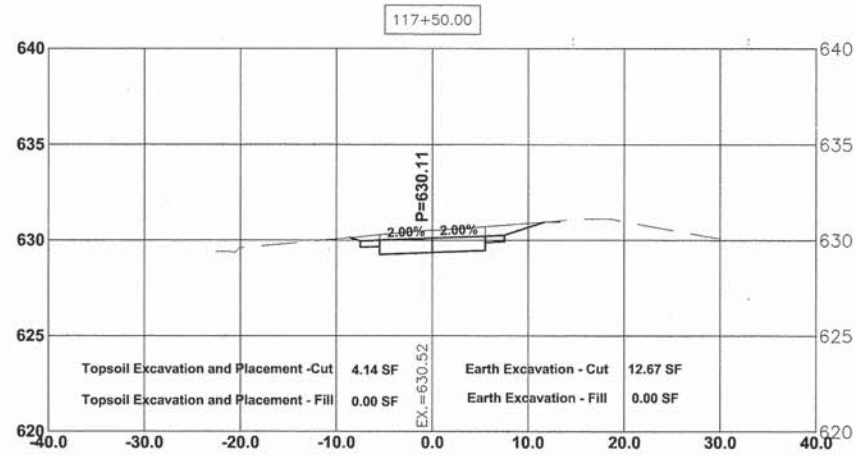
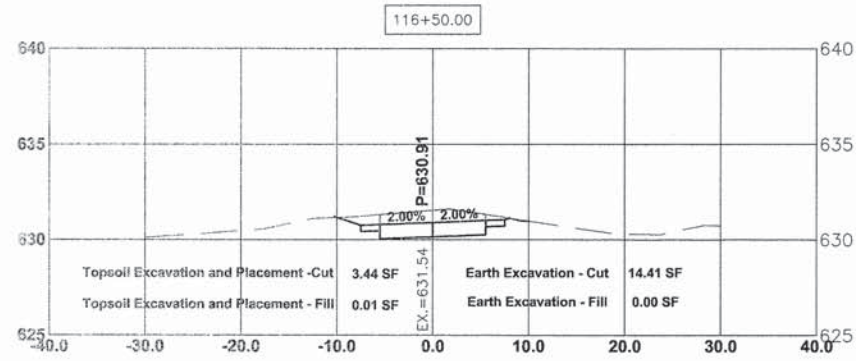
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 21 OF 30 SHEETS STA. 110+00 TO STA. 115+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	145
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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DATE -	3-6-15	REVISED -	

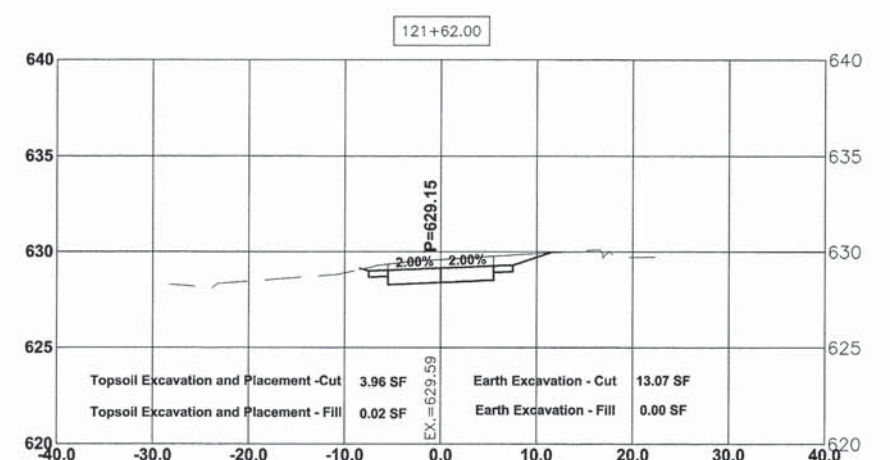
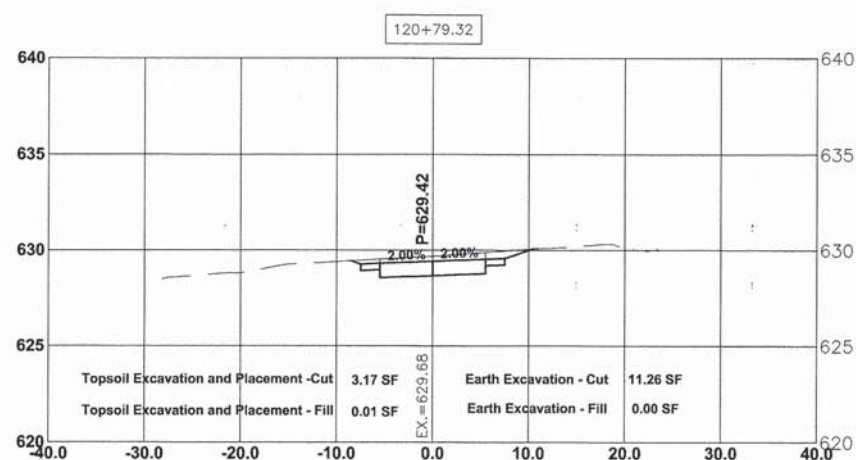
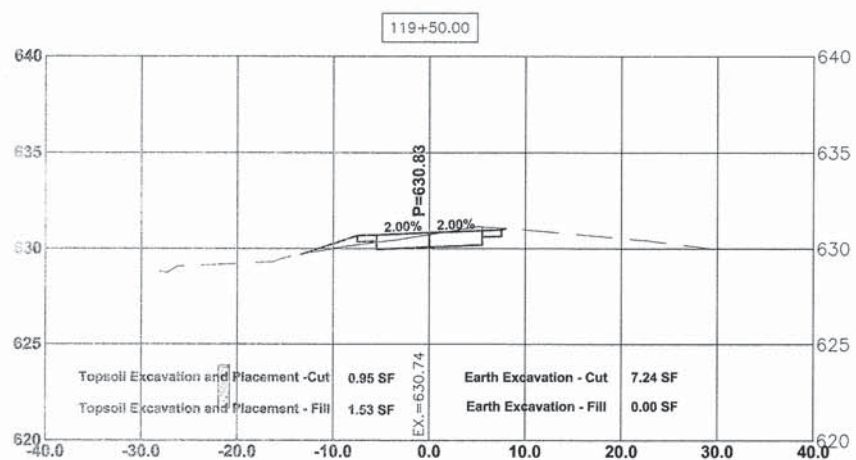
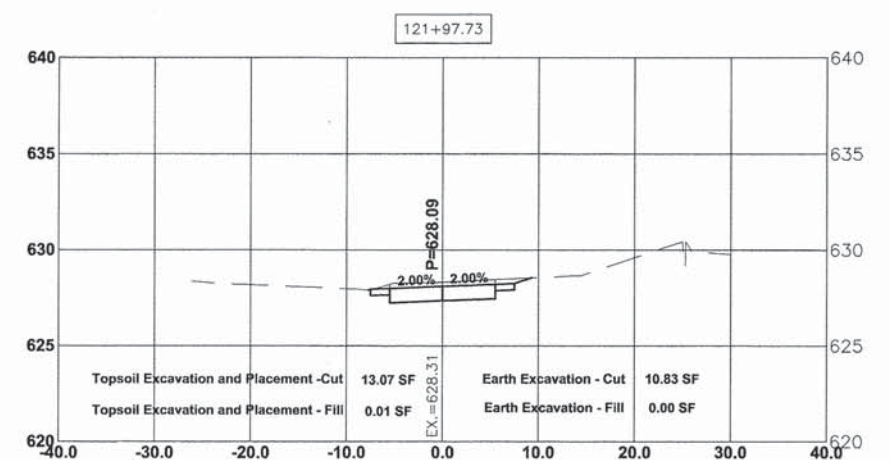
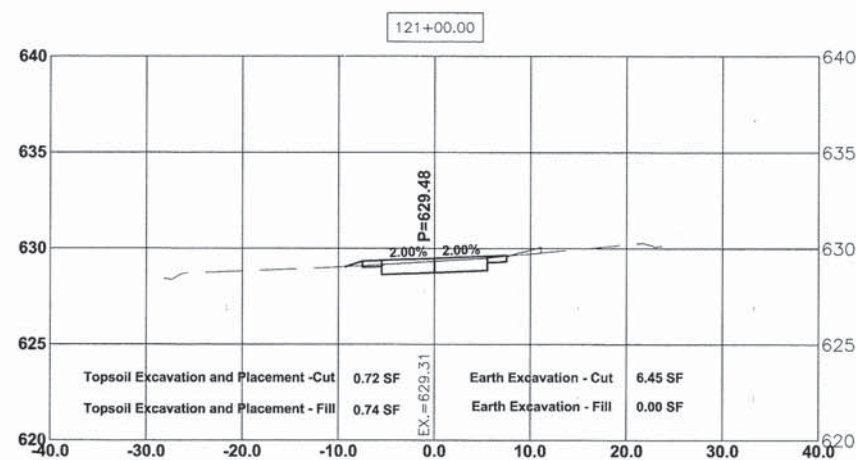
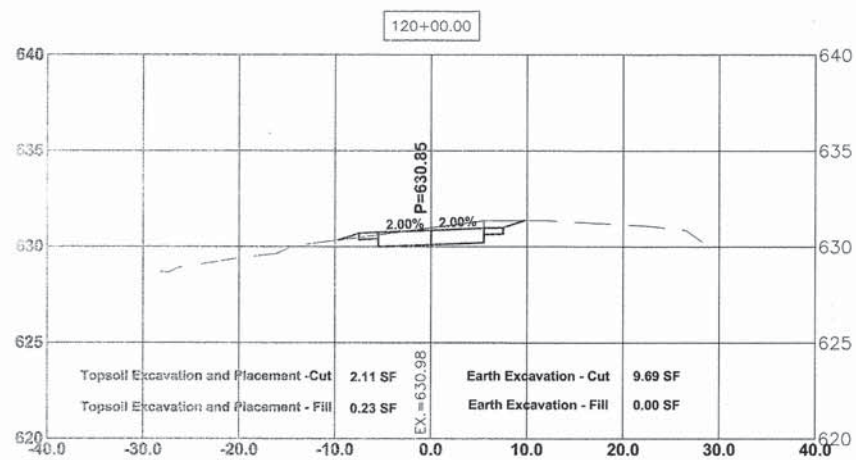
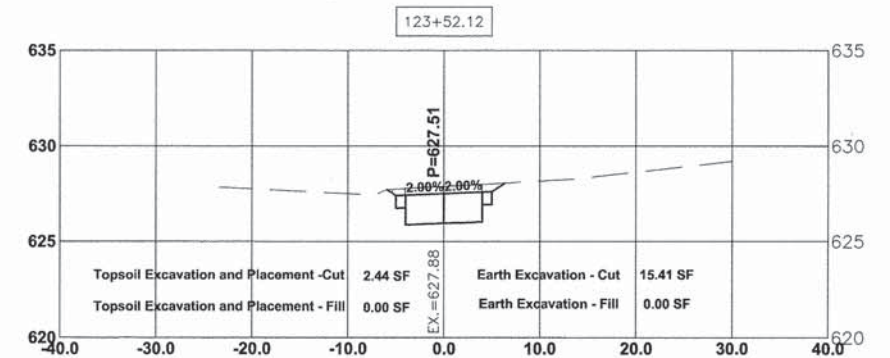
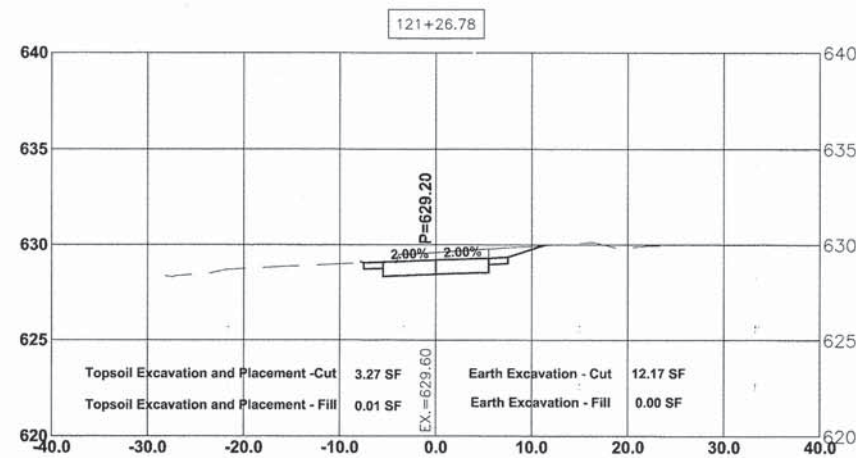
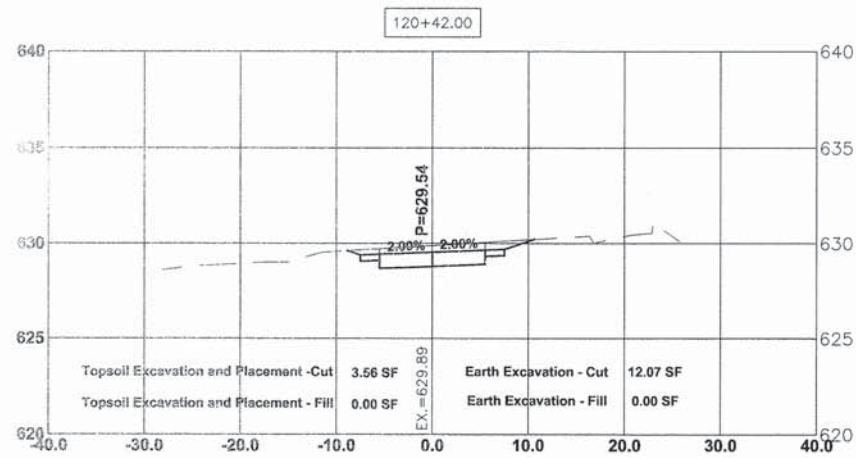
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH AVENUE
STATION CROSS SECTIONS

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 22 OF 30 SHEETS STA. 115+50 TO STA. 119+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	146
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing File: W:\Projects\119+50\119+50\119+50.dwg - North Ave. Corridor Bypass - Sta. NORTH_AVE_2.dwg Aug 05, 2015 - 8:44am



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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

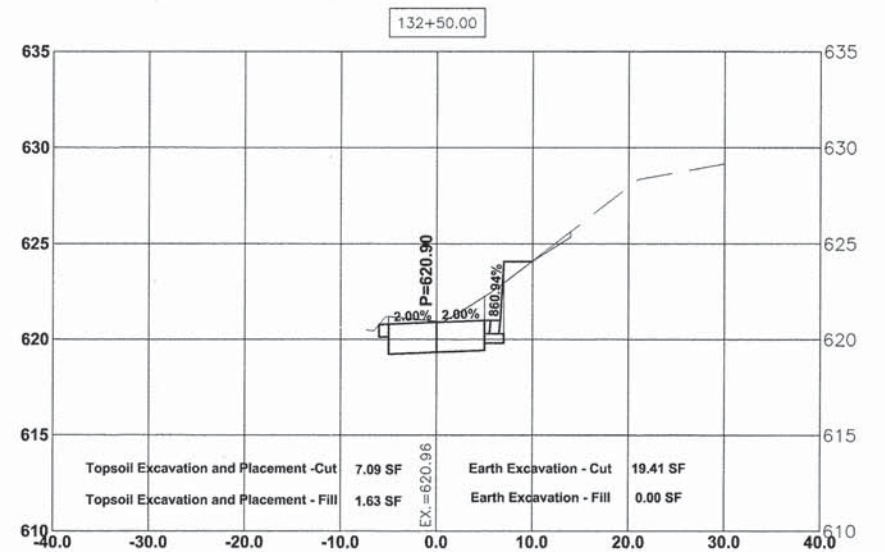
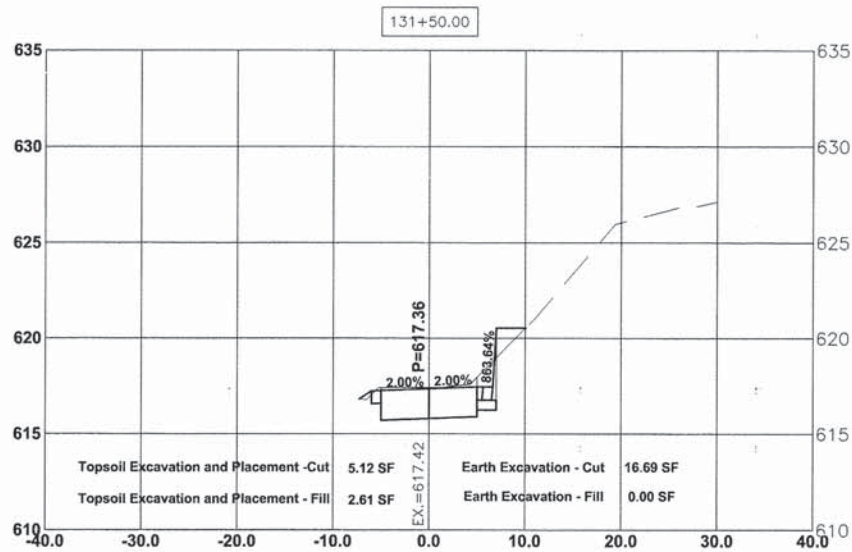
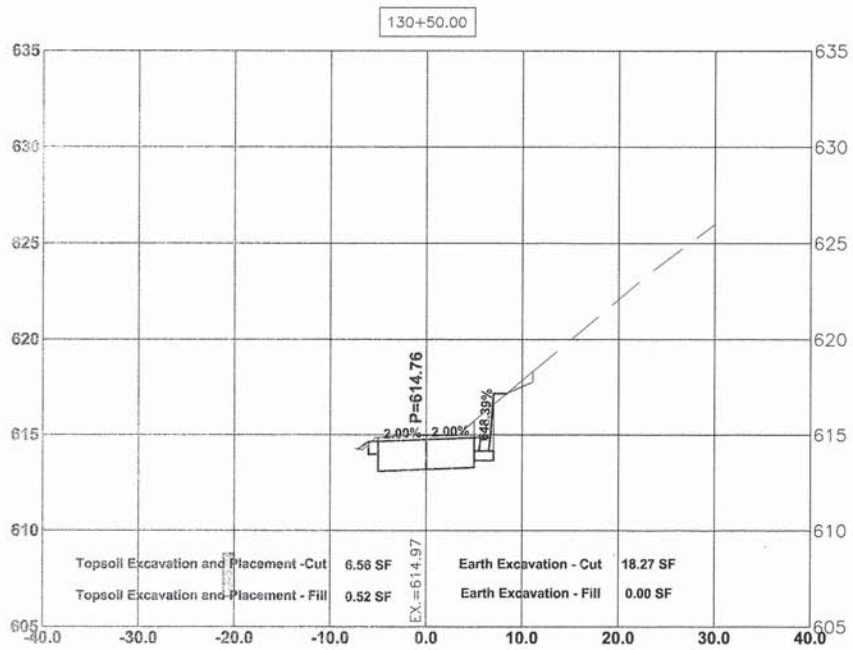
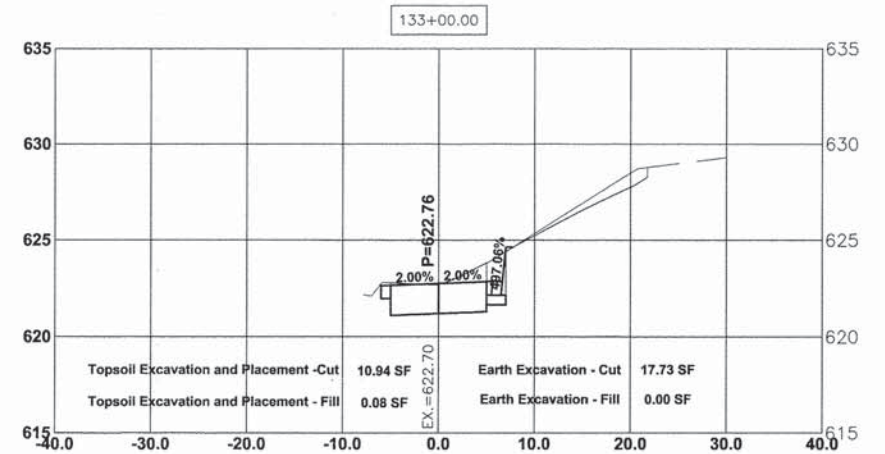
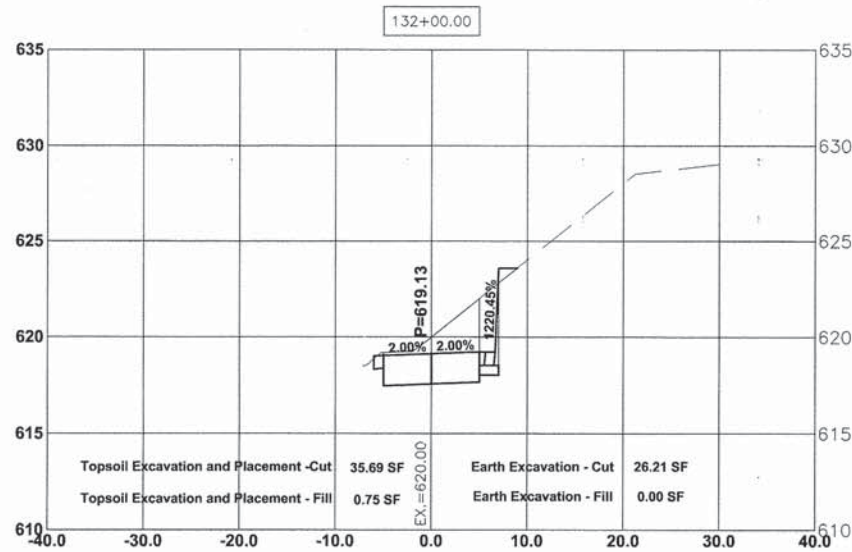
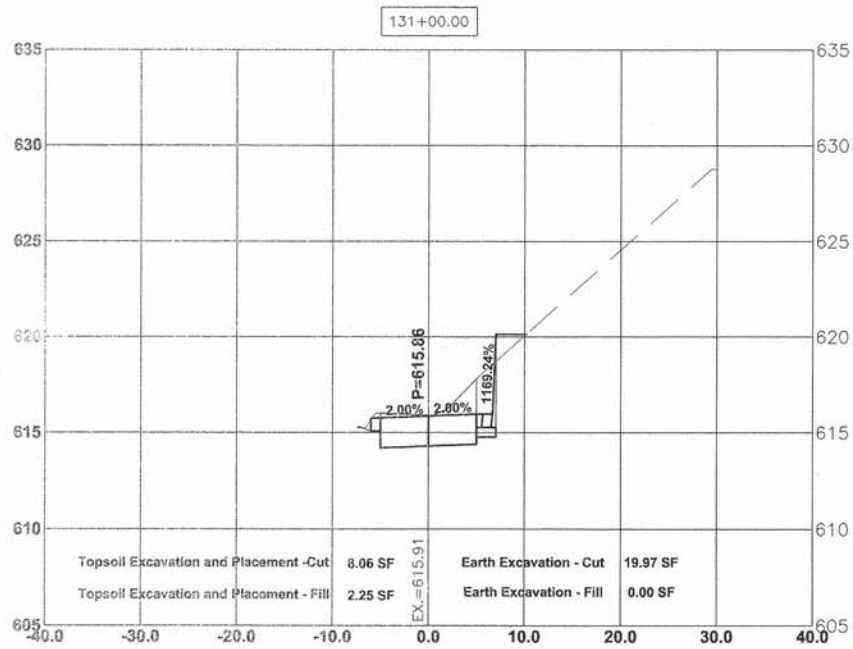
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 23 OF 30 SHEETS STA. 119+50 TO STA. 123+52

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	147
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

Drawing file: W:\Projects_By_Village\Ipswich_Park\60014242 - North Ave Commuter Bicycle Path\Sta\131\131+00.00.dwg Aug 02, 2015 - 8:45am



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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

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 DEPARTMENT OF TRANSPORTATION**

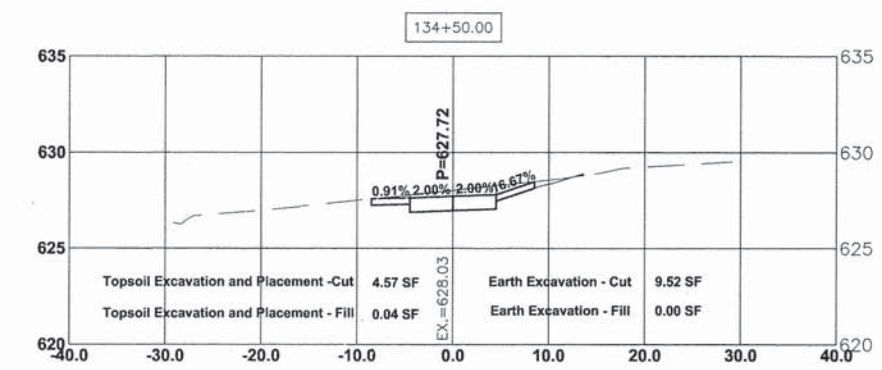
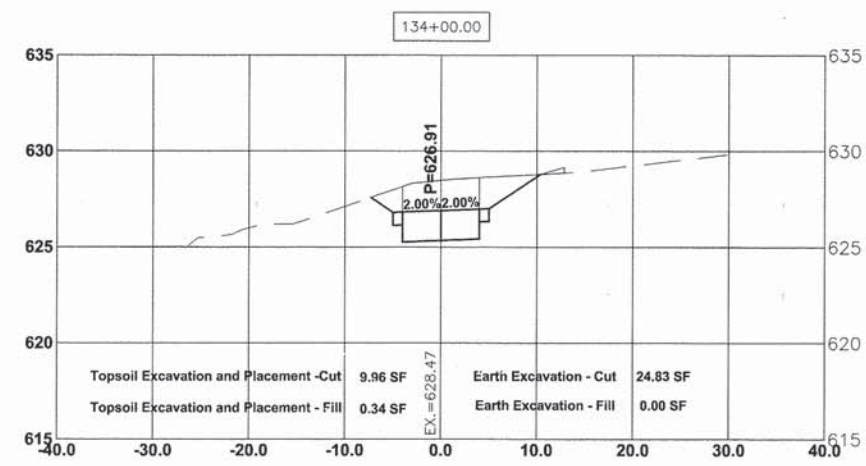
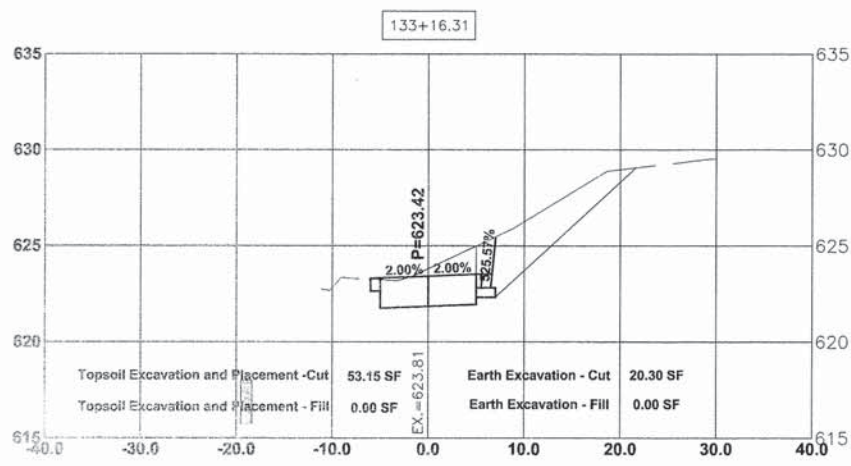
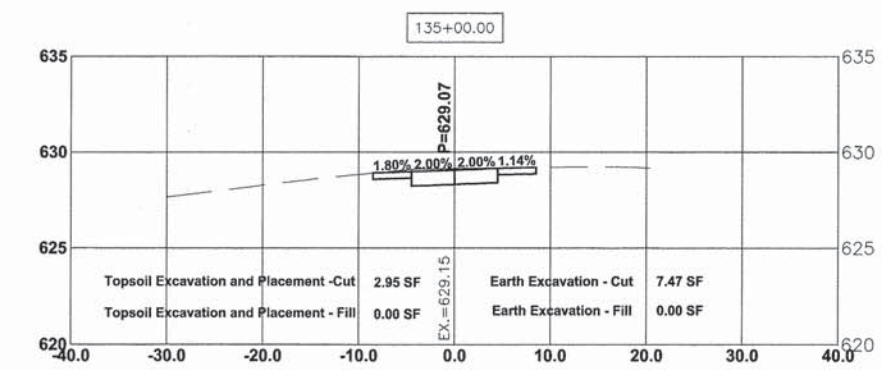
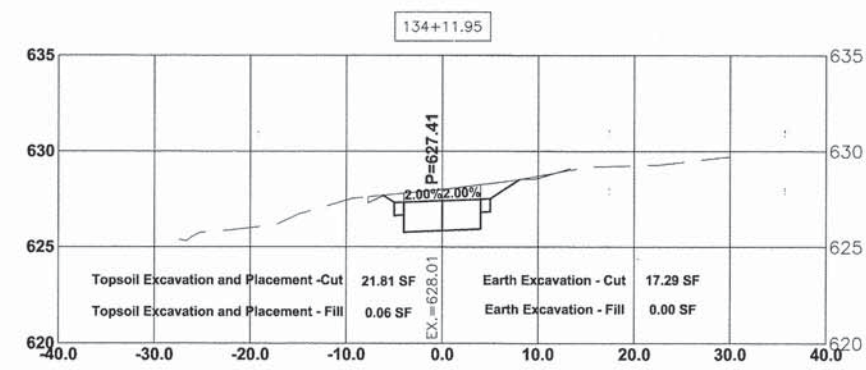
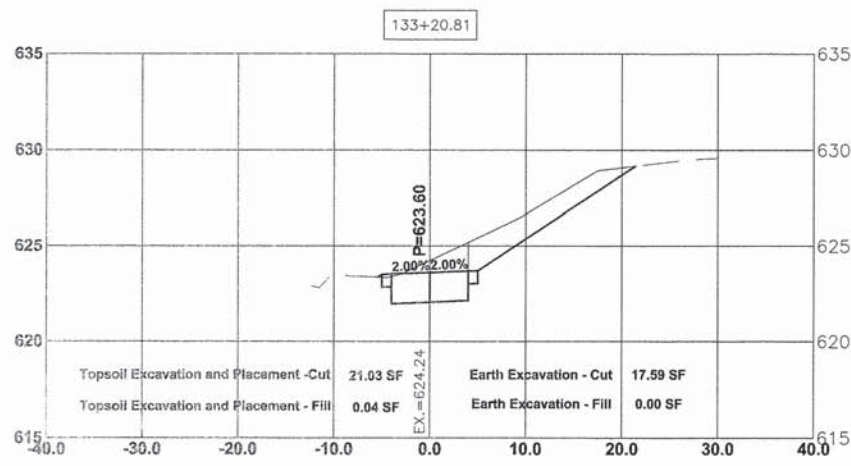
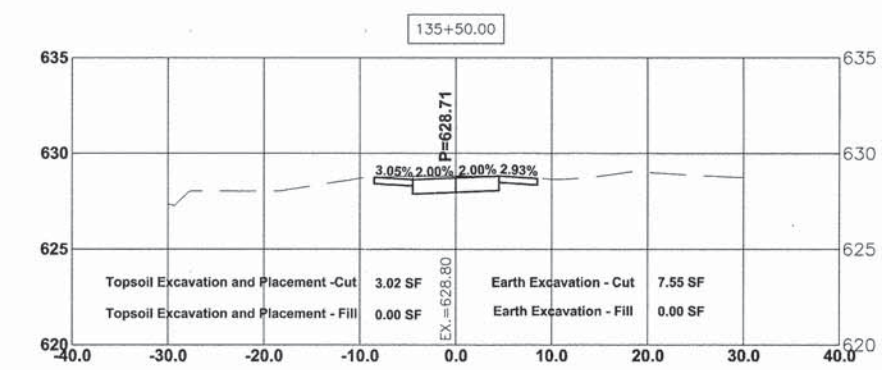
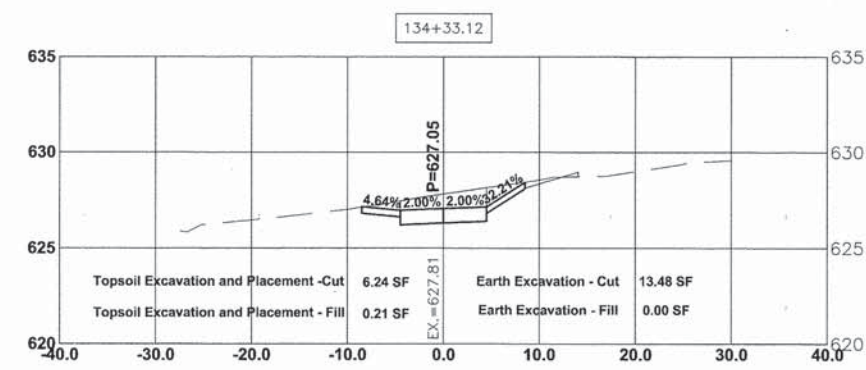
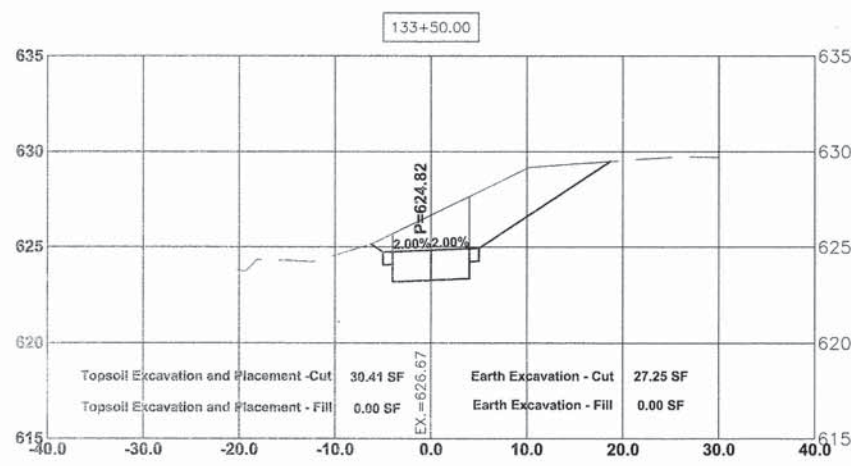
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 26 OF 30 SHEETS STA. 130+50 TO STA. 133+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	150
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

Drawing file: W:\Projects\By_Mileage\North Ave Commuter Bicycle Path_Site\NORTH_AVE_2.dwg Aug 05, 2015 - 8:45am



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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

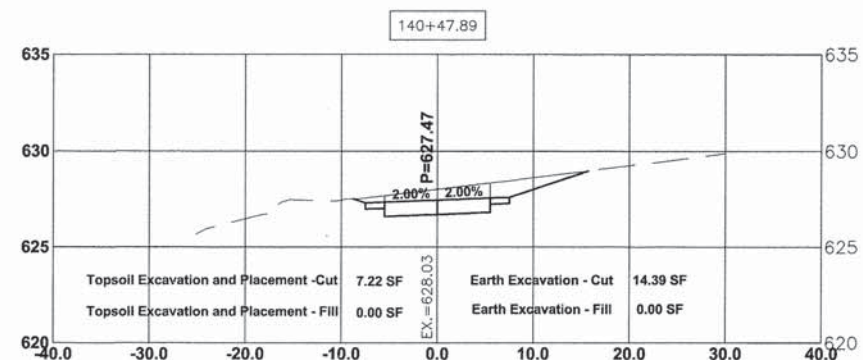
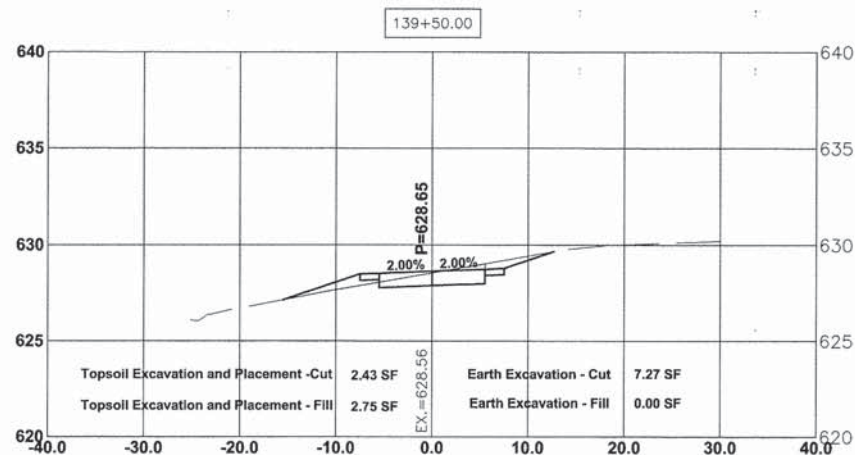
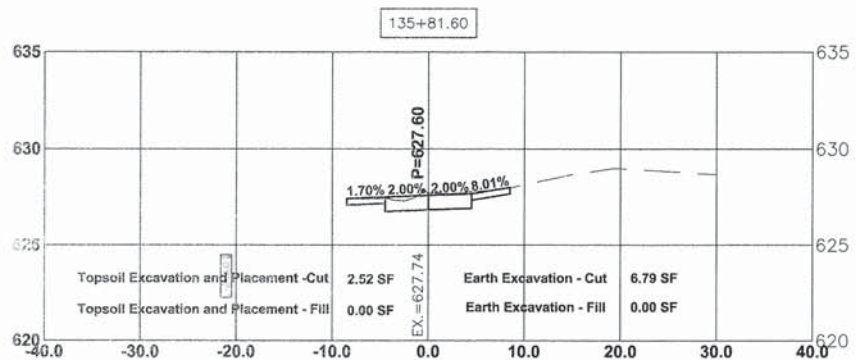
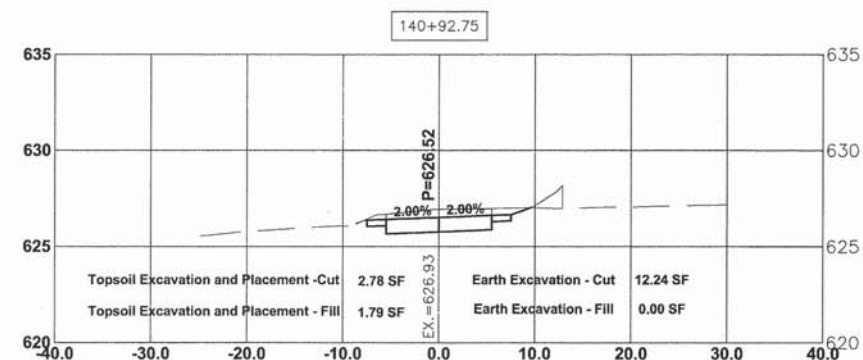
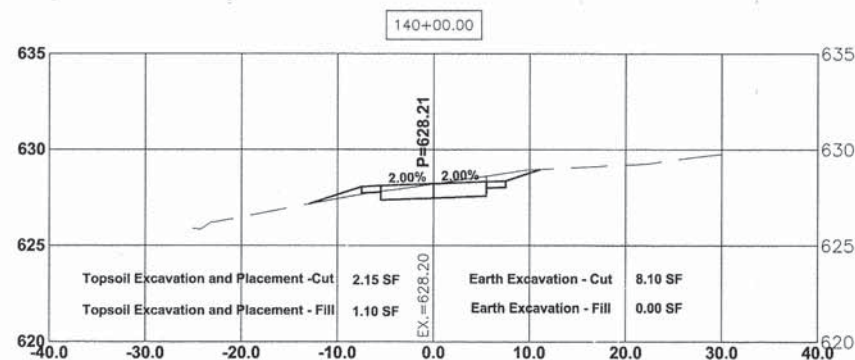
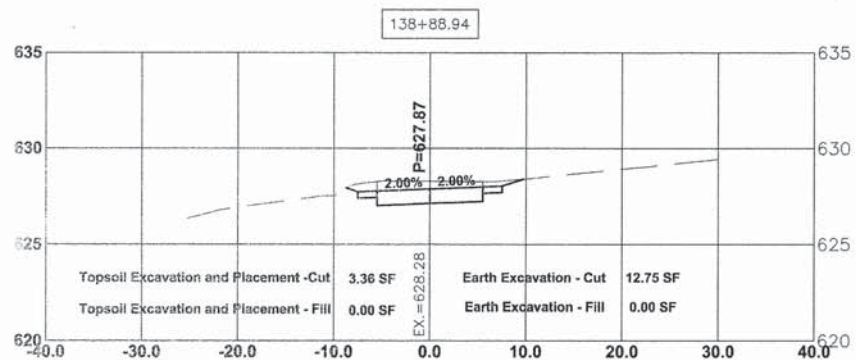
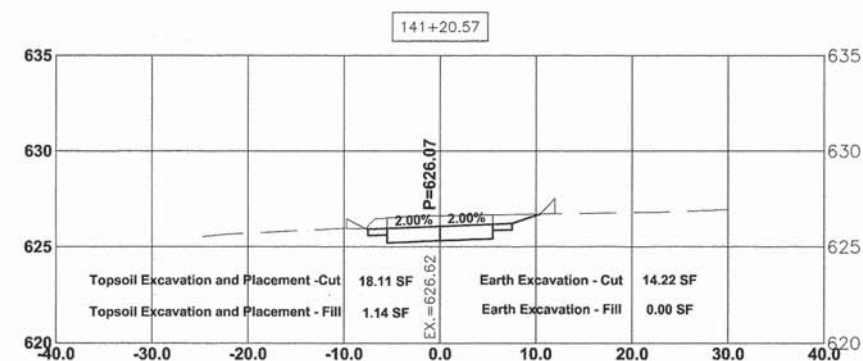
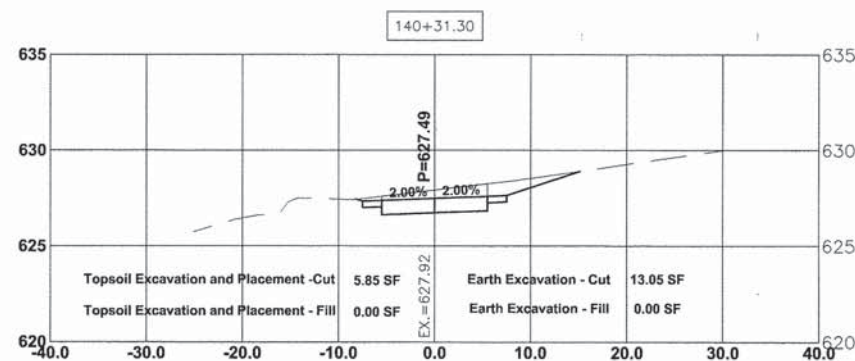
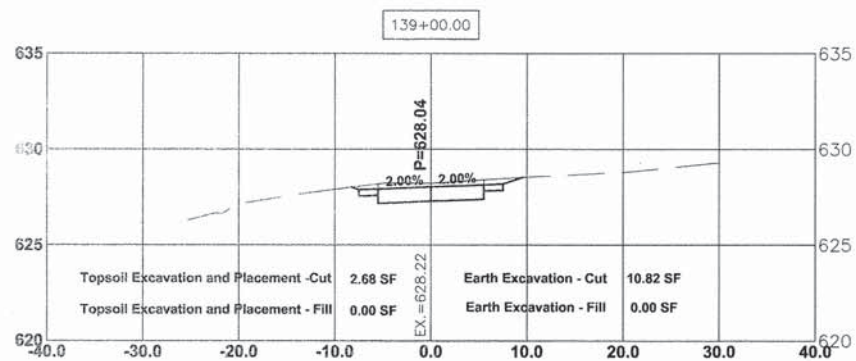
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 27 OF 30 SHEETS STA. 133+16 TO STA. 135+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	151
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

Drawing File: \\A:\Projects\By_Village\Aurora\135+81.60 - North Ave Commuter Bicycle Path\Sta\WDRN_AVE_2.dwg Aug 05, 2015 - 8:05am



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DATE -	3-6-15	REVISED -	

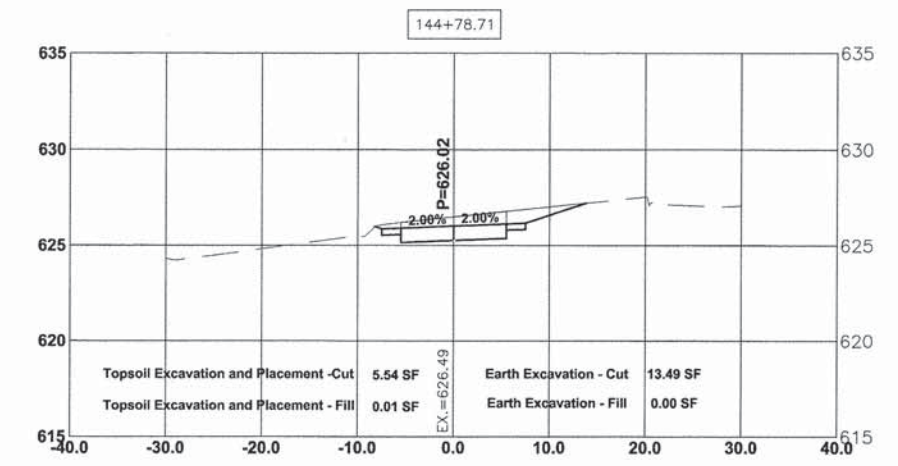
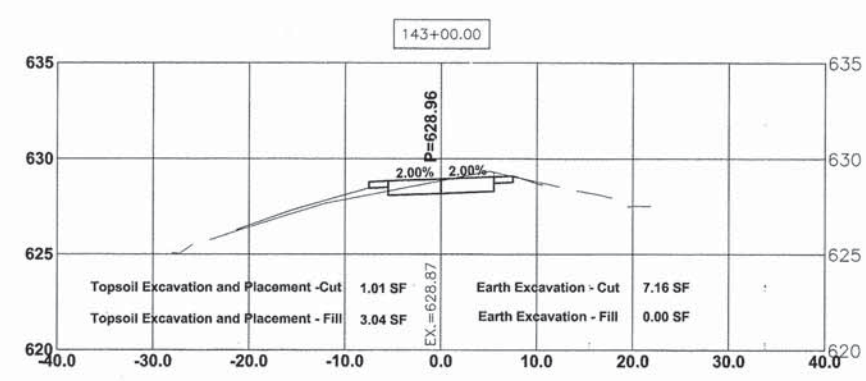
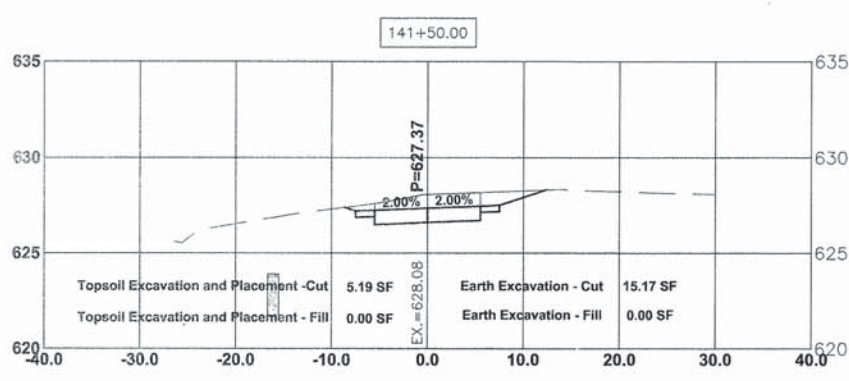
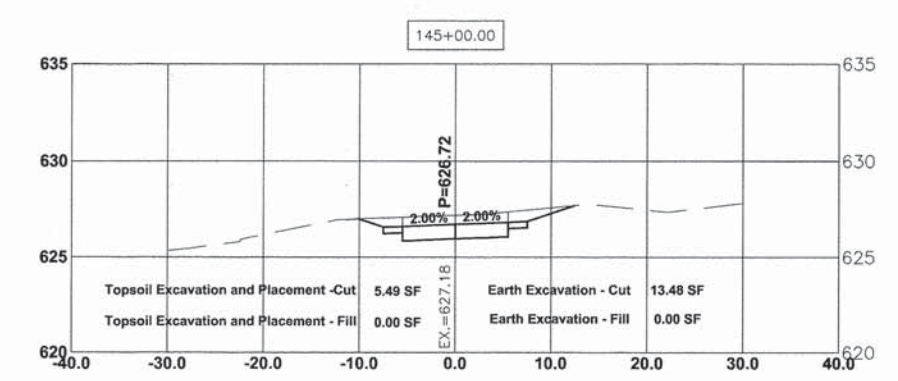
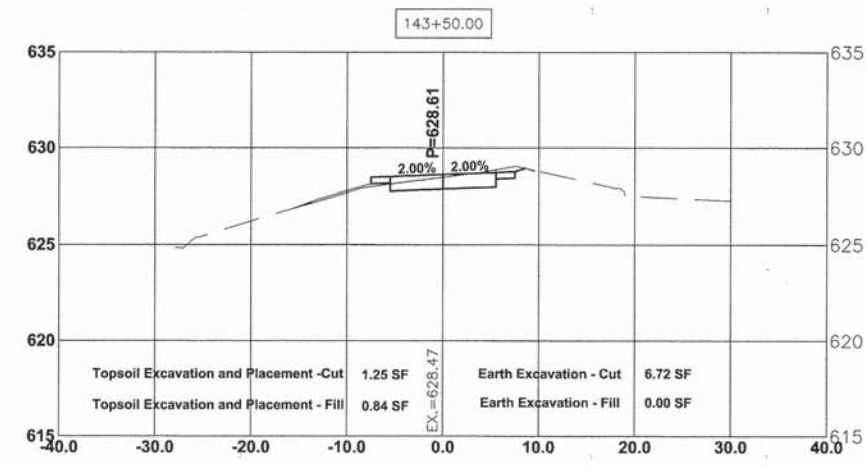
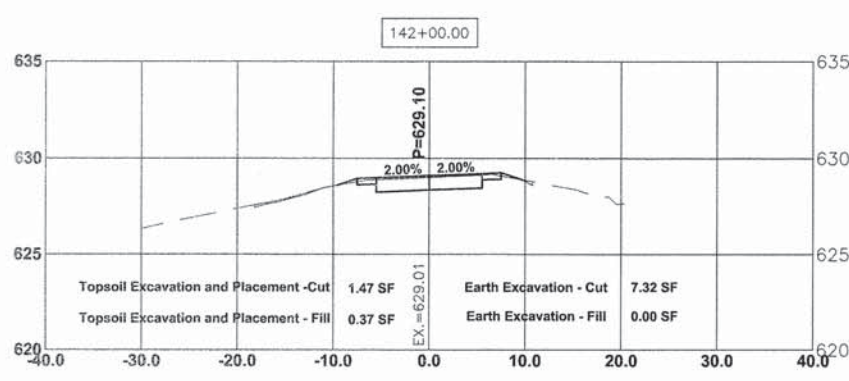
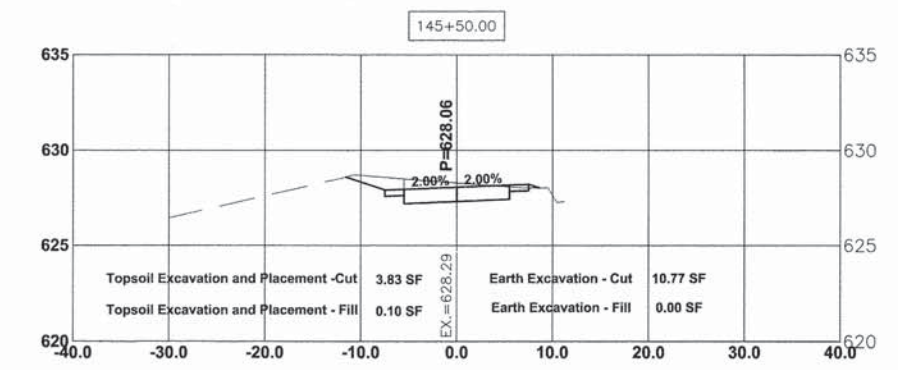
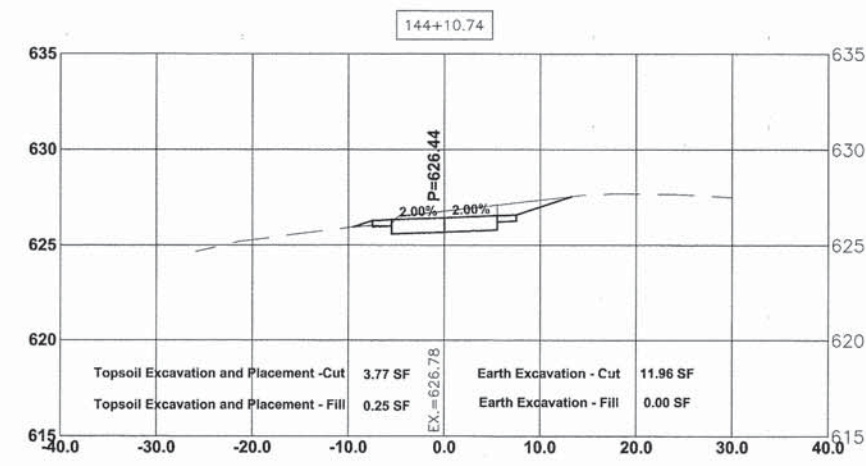
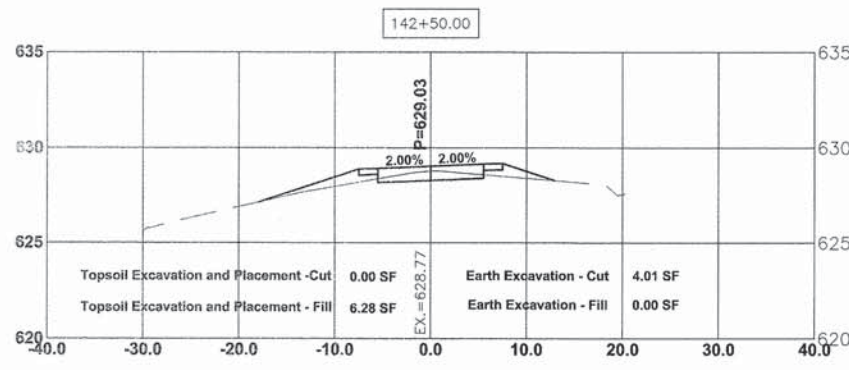
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH AVENUE
STATION CROSS SECTIONS

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 28 OF 30 SHEETS STA. 135+81 TO STA. 141+20

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	152
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

**STATE OF ILLINOIS
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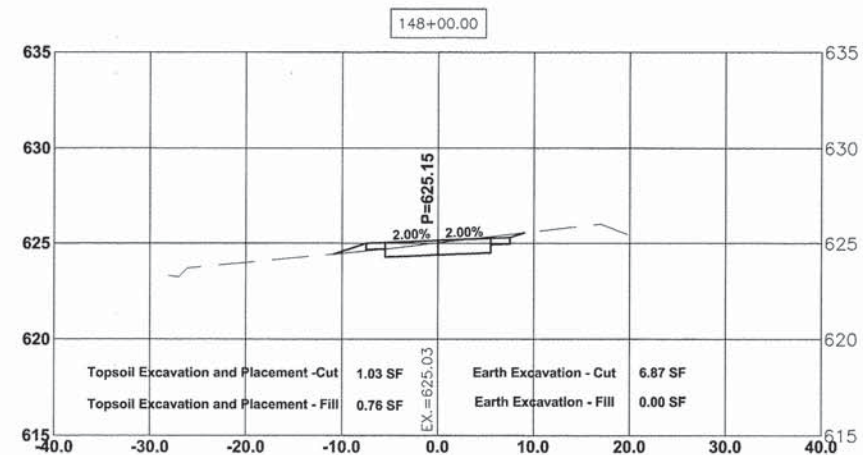
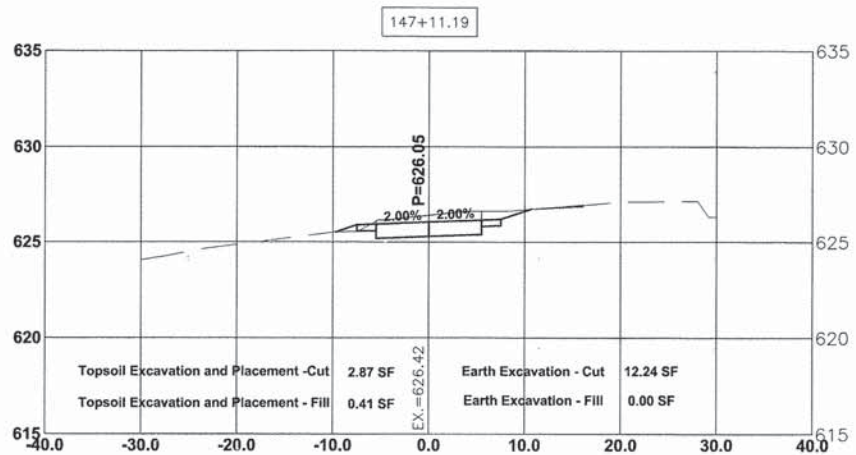
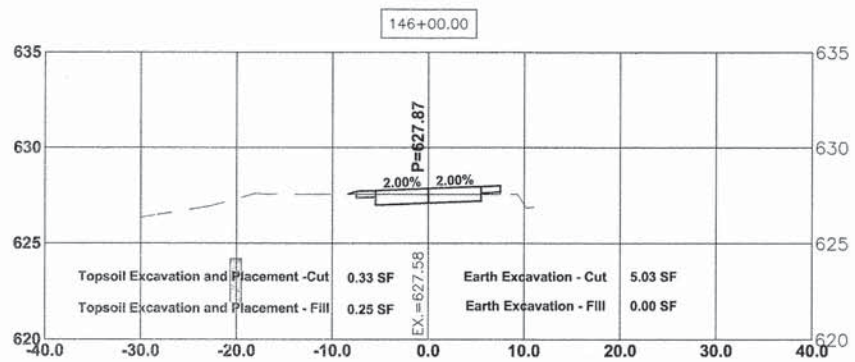
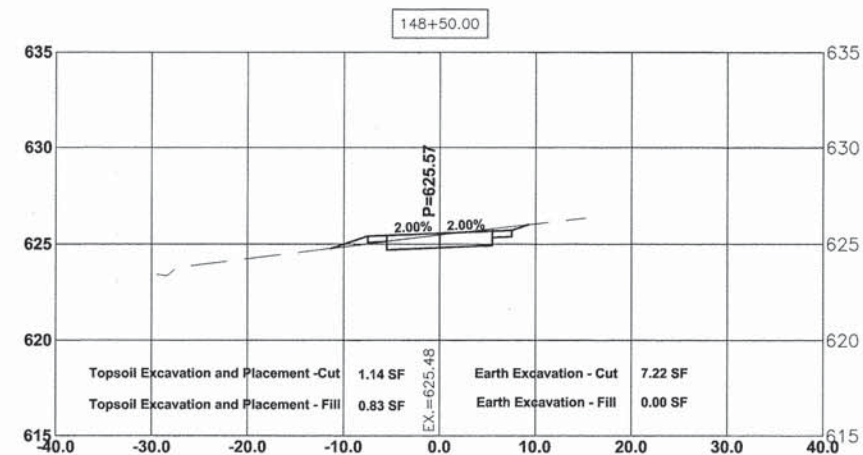
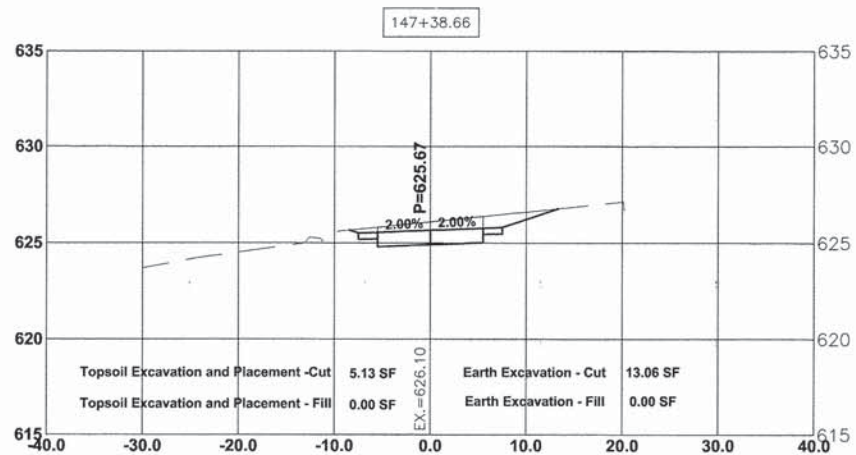
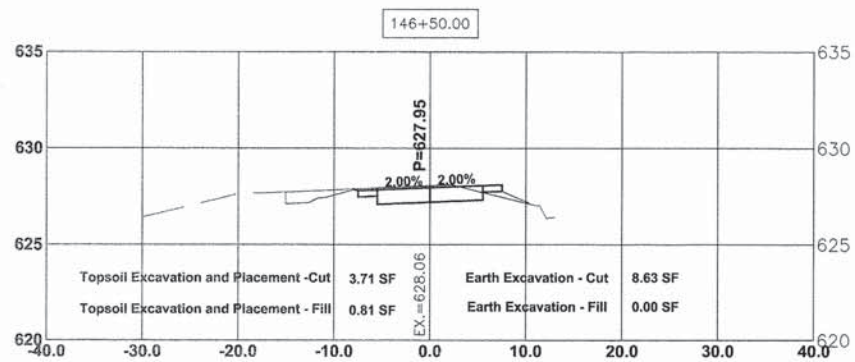
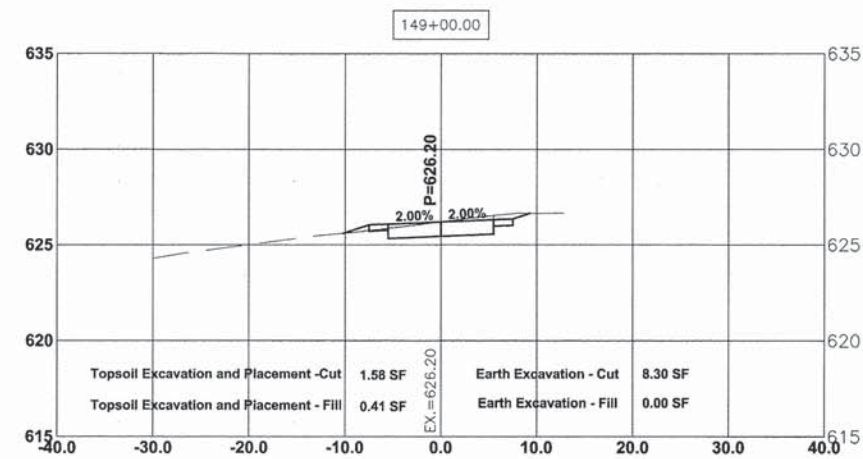
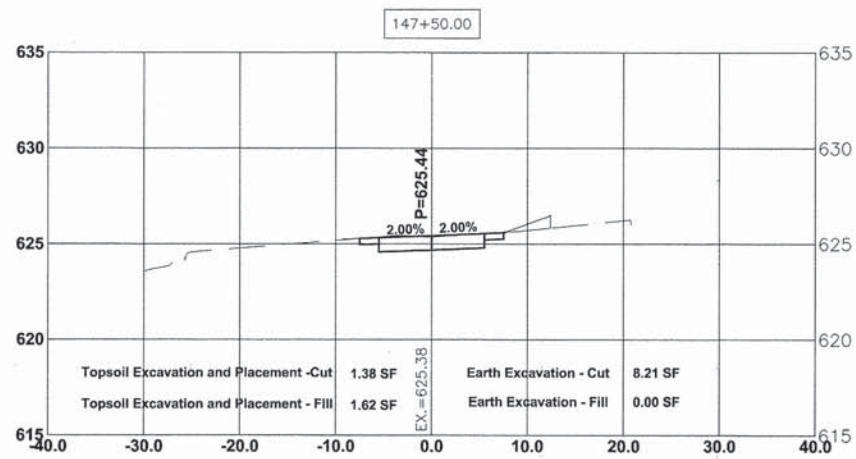
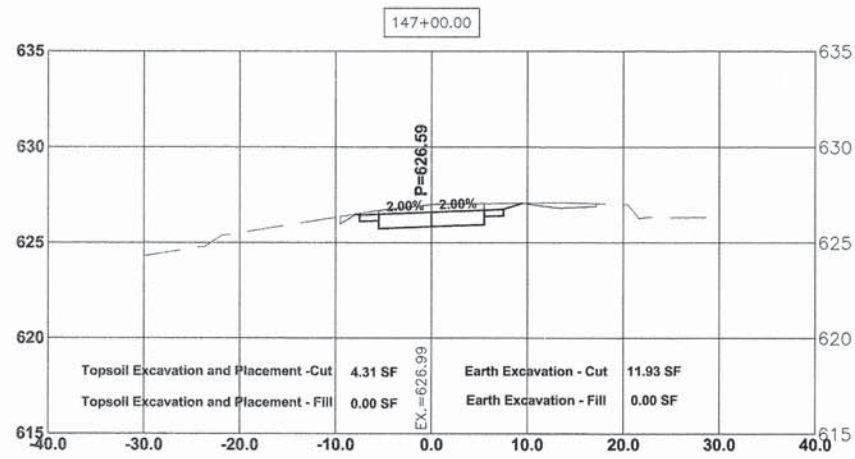
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 29 OF 30 SHEETS STA. 141+50 TO STA. 145+50

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	153
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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CHECKED -	JGG	REVISED -	
DATE -	3-6-15	REVISED -	

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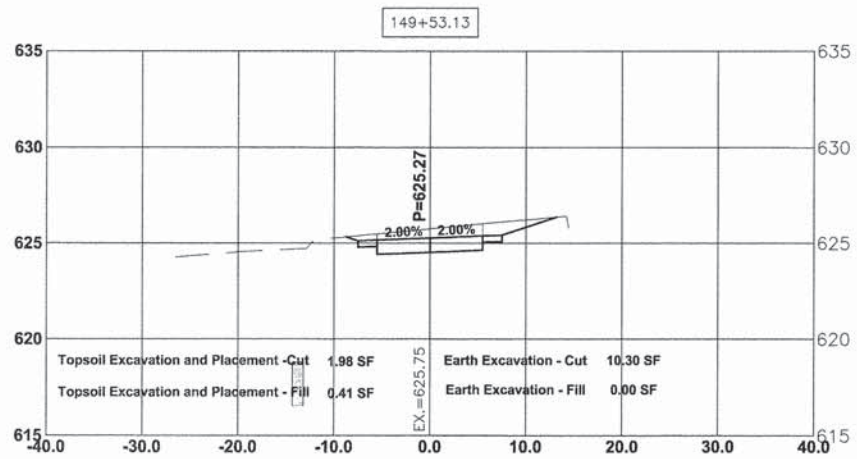
**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 30 OF 30 SHEETS STA. 146+00 TO STA. 149+00

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	154
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		

E.H.E. PROJECT NO. 600-14-24201

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Topsoil Excavation and Placement - Cut	1.98 SF	Earth Excavation - Cut	10.30 SF
Topsoil Excavation and Placement - Fill	0.41 SF	Earth Excavation - Fill	0.00 SF



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**STATE OF ILLINOIS
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**NORTH AVENUE
 STATION CROSS SECTIONS**

SCALE: 1"=10'H. & 1"=5'V. SHEET NO. 30 OF 30 SHEETS STA. 149+53 TO STA. 149+53

MS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 307	08-00110-00-BT	COOK	155	155
FIELD BOOK NO. : GPS		CONTRACT NO. 61B78		
ILLINOIS		FED. AID PROJECT		