

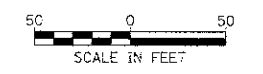
GENERAL NOTES

- DIMENSIONS TO PAVEMENT MARKINGS ARE TO THE CENTER OF A SINGLE LINE OR THE CENTER OF GAP FOR A DOUBLE LINE.
- SEE IDOT STANDARD TC-13 FOR TURN LANE MARKING DETAILS ON BARRINGTON ROAD. SEE CCHD DETAIL FOR TURN LANE MARKING DETAILS ON SCHAUMBURG ROAD.
- SEE IDOT STANDARD TC-11 FOR RAISED REFLECTIVE PAVEMENT MARKER DETAILS ON BARRINGTON ROAD. SEE CCHD DETAIL FOR RAISED REFLECTIVE PAVEMENT MARKER DETAILS ON SCHAUMBURG ROAD.
- ALL PERMANENT PAVEMENT MARKINGS ON ASPHALT SURFACES SHALL BE THERMOPLASTIC. ALL PERMANENT PAVEMENT MARKINGS ON CONCRETE SURFACES SHALL BE PAINT.

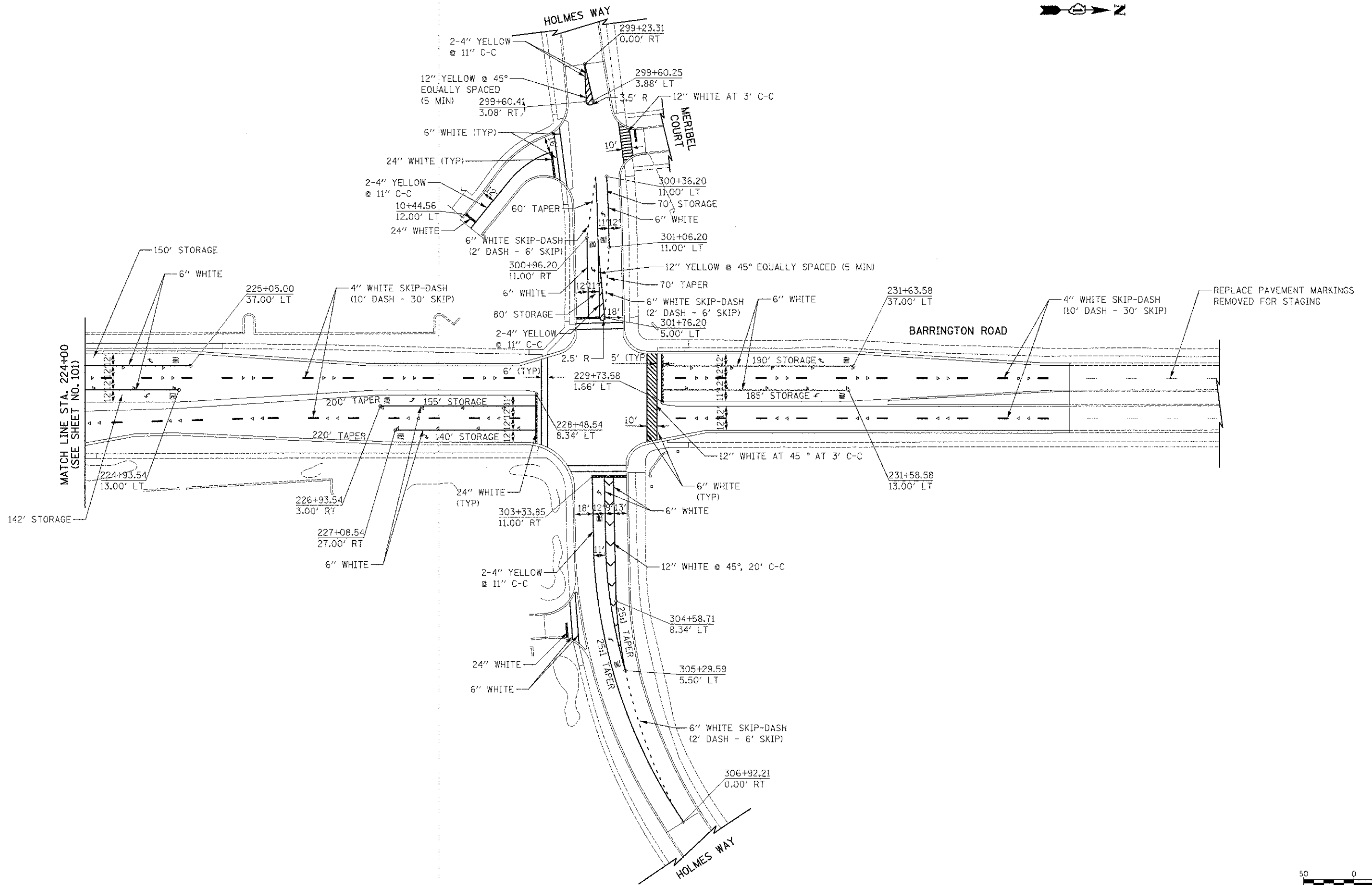
NOTE:
ALL PAVEMENT MARKINGS ON SCHAUMBURG ROAD SHALL FOLLOW COOK COUNTY HIGHWAY DEPARTMENT STANDARDS (SEE SHEET NO. 182 AND 183)

LEGEND

- PROPOSED WHITE LETTERS AND SYMBOLS
- ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER



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	PLOT SCALE = 50.0000' / 1"	CHECKED - DJK	REVISED -			SCALE: 1" = 50'	SHEET NO. 1 OF 3 SHEETS	STA. 203+03.28 TO STA. 224+00	CONTRACT NO. 63629			
	PLOT DATE = 8/17/2012	DATE - 8-20-12	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMN-800305D						



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 PLOT DATE = 8/16/2012

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 CHECKED - DJK
 DATE - 8-20-12

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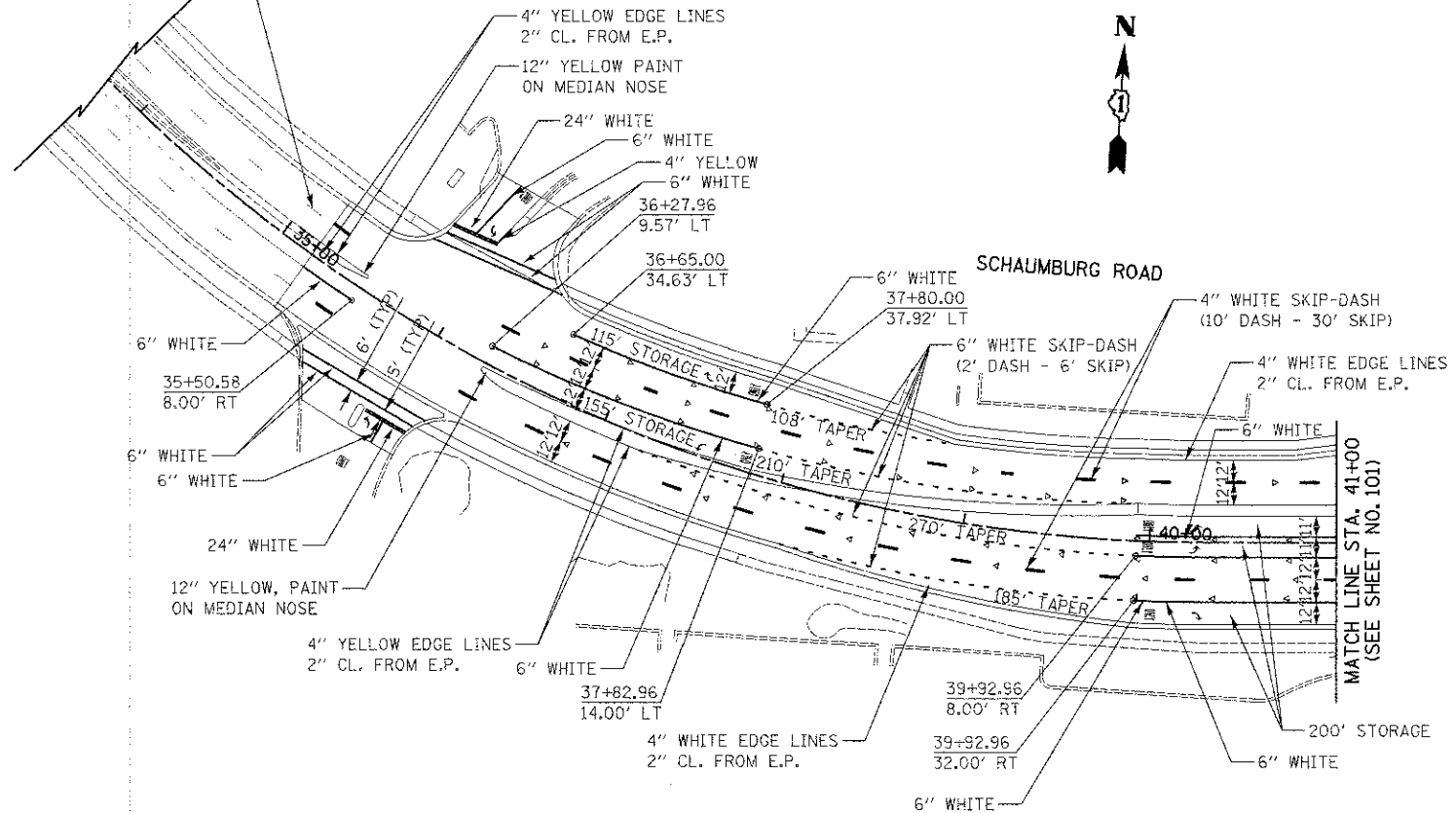
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BARRINGTON ROAD AND SCHAUMBURG ROAD
 PAVEMENT MARKING PLAN**

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. 224+00 TO STA. 233+78.58

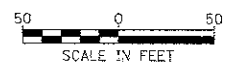
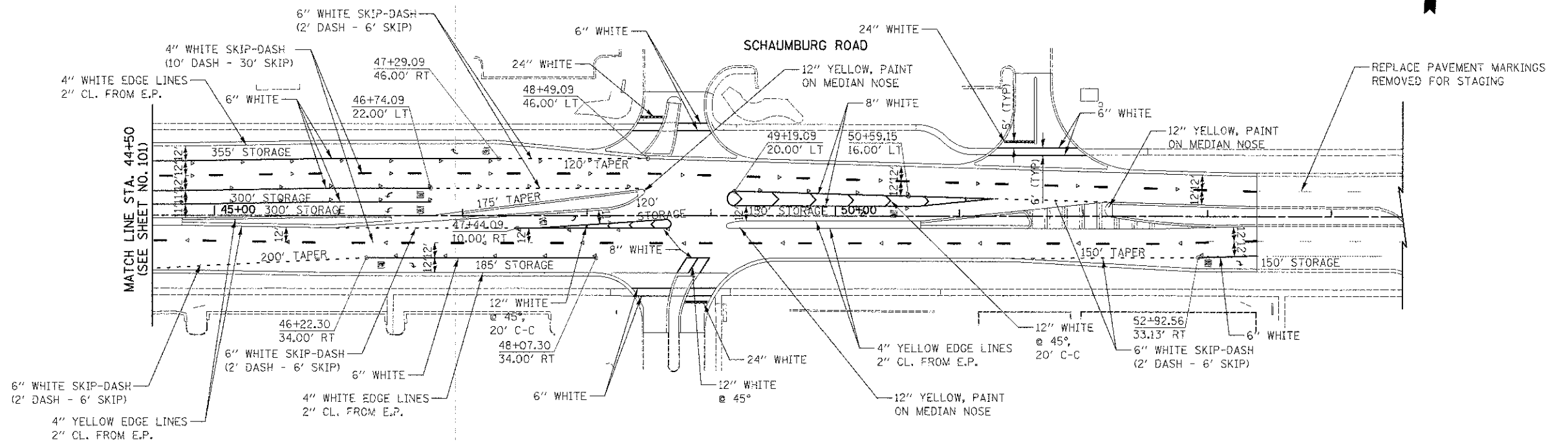
F.A.U. R.F.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	102
CONTRACT NO. 63629			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-CMM-8003(05D)	

REPLACE PAVEMENT MARKINGS
REMOVED FOR STAGING

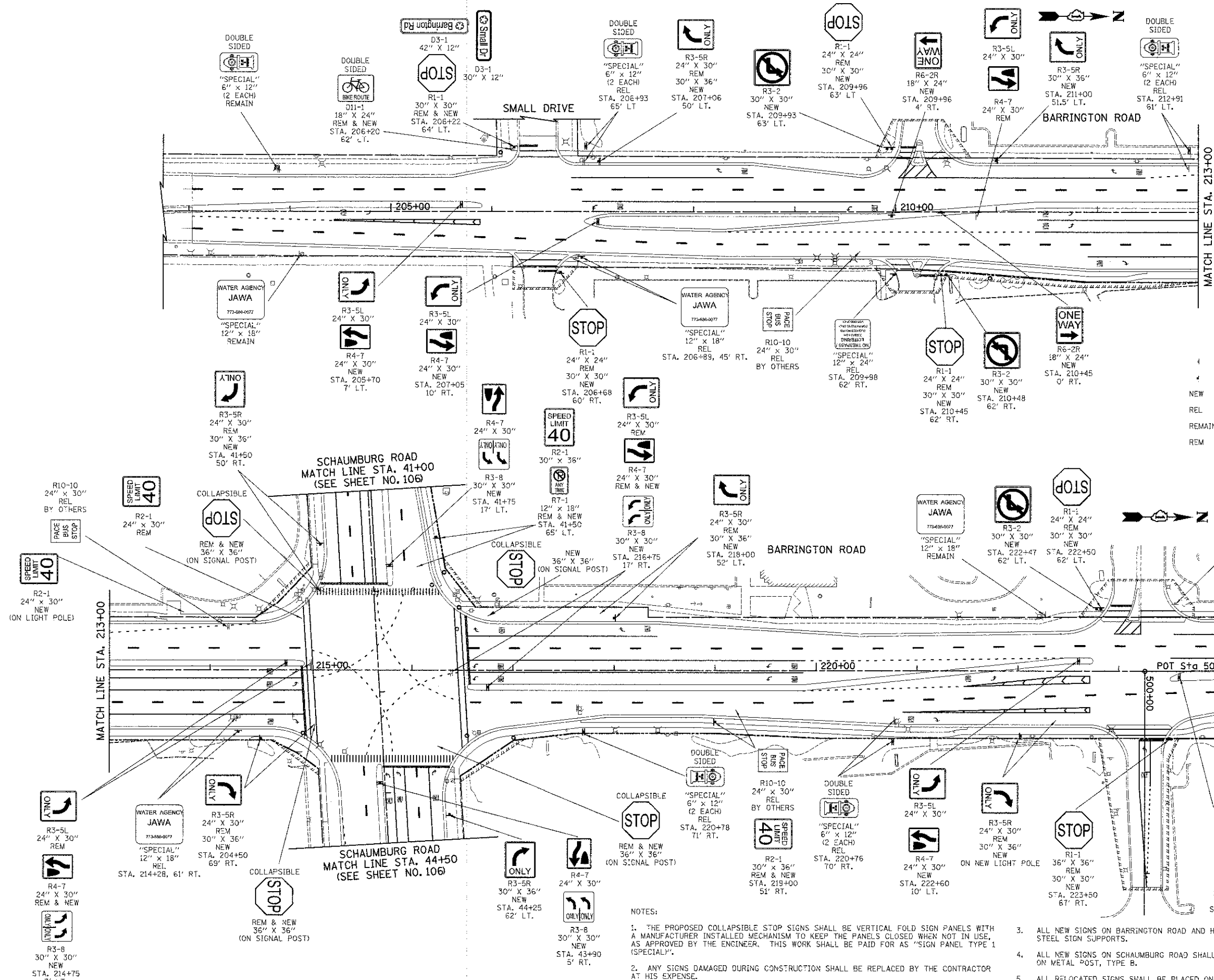


NOTE:

ALL PAVEMENT MARKINGS ON SCHAUMBURG ROAD SHALL FOLLOW
COOK COUNTY HIGHWAY DEPARTMENT STANDARDS (SEE SHEET NO. 182 AND 183)



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	PLOT SCALE = 50.0000' / 1" =	CHECKED - DJK	REVISED -			SCALE: 1" = 50'	SHEET NO. 3 OF 3 SHEETS	STA. 35+19.50 TO STA. 52+99.92	CONTRACT NO. 63629	
	PLOT DATE = 8/16/2012	DATE = 8-20-12	REVISED -							

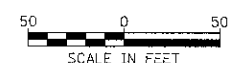


LEGEND

	EXISTING SIGN
	PROPOSED SIGN
	NEW SIGN PANEL OF THE TYPE REQUIRED
	RELOCATE SIGN PANEL ASSEMBLY
	REMAIN SIGN PANEL TO REMAIN IN SAME LOCATION
	REMOVE SIGN PANEL ASSEMBLY



- NOTES:**
1. THE PROPOSED COLLAPSIBLE STOP SIGNS SHALL BE VERTICAL FOLD SIGN PANELS WITH A MANUFACTURER INSTALLED MECHANISM TO KEEP THE PANELS CLOSED WHEN NOT IN USE, AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "SIGN PANEL TYPE 1 (SPECIAL)".
 2. ANY SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
 3. ALL NEW SIGNS ON BARRINGTON ROAD AND HOLMES WAY SHALL BE ON TELESCOPING STEEL SIGN SUPPORTS.
 4. ALL NEW SIGNS ON SCHAUMBURG ROAD SHALL BE ON METAL POST, TYPE B.
 5. ALL RELOCATED SIGNS SHALL BE PLACED ON METAL POST, TYPE A.



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PLCT SCALE = 60.0000 / 1"	DRAWN - BLG	REVISED -
PLOT DATE = 6/17/2012	CHECKED - DJK	REVISED -
	DATE - 6-20-12	REVISED -

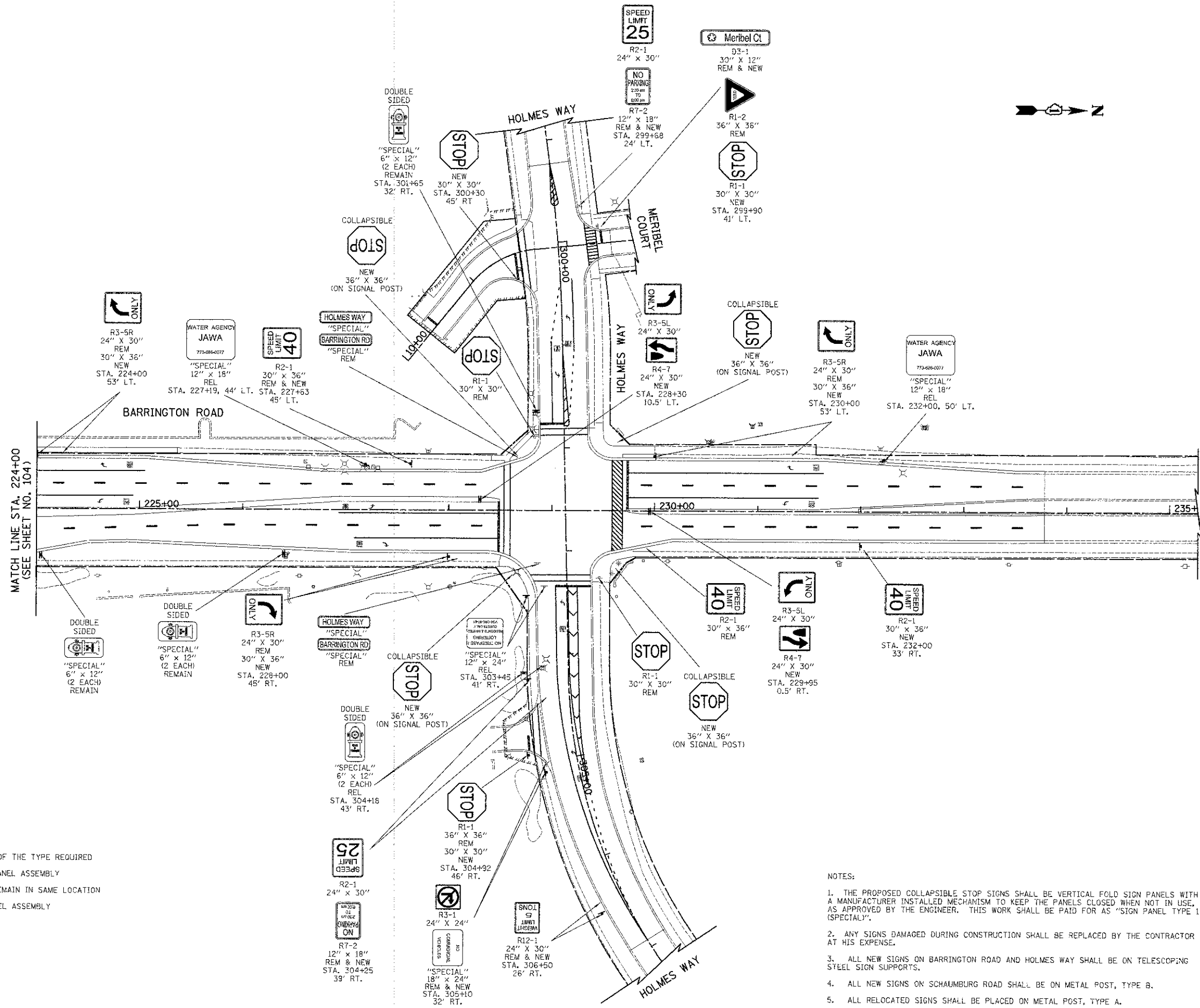
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DRAWN - BLG	REVISED -
CHECKED - DJK	REVISED -
DATE - 6-20-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BARRINGTON ROAD AND SCHAUMBURG ROAD
SIGNING PLAN**

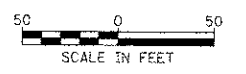
F.A.D. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 104
CONTRACT NO. 63629			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-800305D	

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. 203+03.28 TO STA. 224+00



- LEGEND**
- ⊕ EXISTING SIGN
 - ⊕ PROPOSED SIGN
 - NEW NEW SIGN PANEL OF THE TYPE REQUIRED
 - REL RELOCATE SIGN PANEL ASSEMBLY
 - REMAIN SIGN PANEL TO REMAIN IN SAME LOCATION
 - REM REMOVE SIGN PANEL ASSEMBLY

- NOTES:**
1. THE PROPOSED COLLAPSIBLE STOP SIGNS SHALL BE VERTICAL FOLD SIGN PANELS WITH A MANUFACTURER INSTALLED MECHANISM TO KEEP THE PANELS CLOSED WHEN NOT IN USE, AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "SIGN PANEL TYPE 1 (SPECIAL)".
 2. ANY SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
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 4. ALL NEW SIGNS ON SCHAUMBURG ROAD SHALL BE ON METAL POST, TYPE B.
 5. ALL RELOCATED SIGNS SHALL BE PLACED ON METAL POST, TYPE A.



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 PLOT DATE = 8/17/2012

DESIGNED - BLG
 DRAWN - BLG
 CHECKED - DJK
 DATE - 8-20-12

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BARRINGTON ROAD AND SCHAUMBURG ROAD
 SIGNING PLAN**

SCALE: 1" = 50'
 SHEET NO. 2 OF 3 SHEETS
 STA. 224+00 TO STA. 233+78.58

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-0074-00-CH	COOK	245	105
CONTRACT NO. 63629				

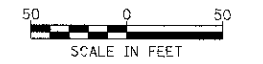
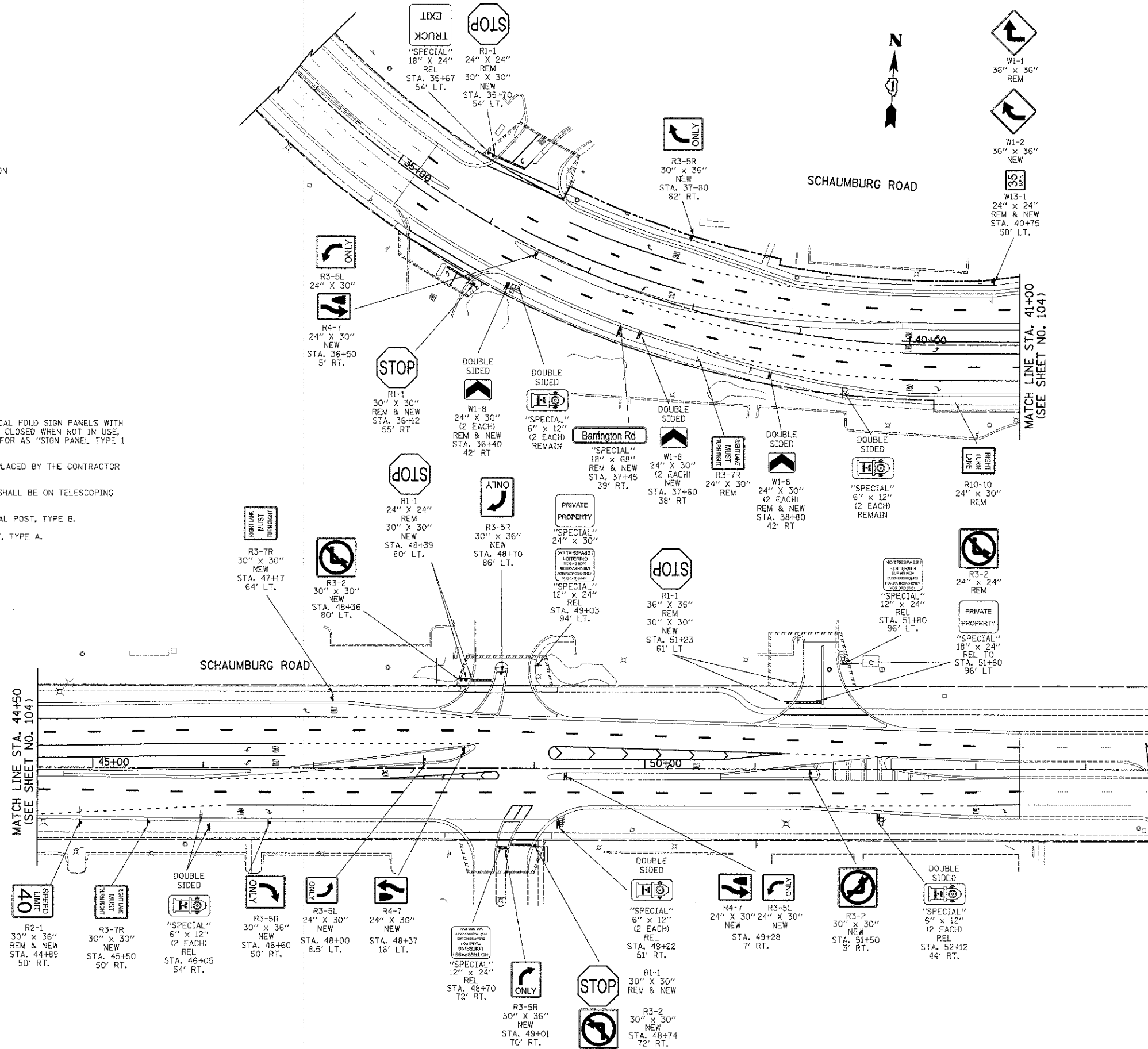
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-DMM-800305D

LEGEND

1	EXISTING SIGN
4	PROPOSED SIGN
NEW	NEW SIGN PANEL OF THE TYPE REQUIRED
REL	RELOCATE SIGN PANEL ASSEMBLY
REMAIN	SIGN PANEL TO REMAIN IN SAME LOCATION
REM	REMOVE SIGN PANEL ASSEMBLY

NOTES:

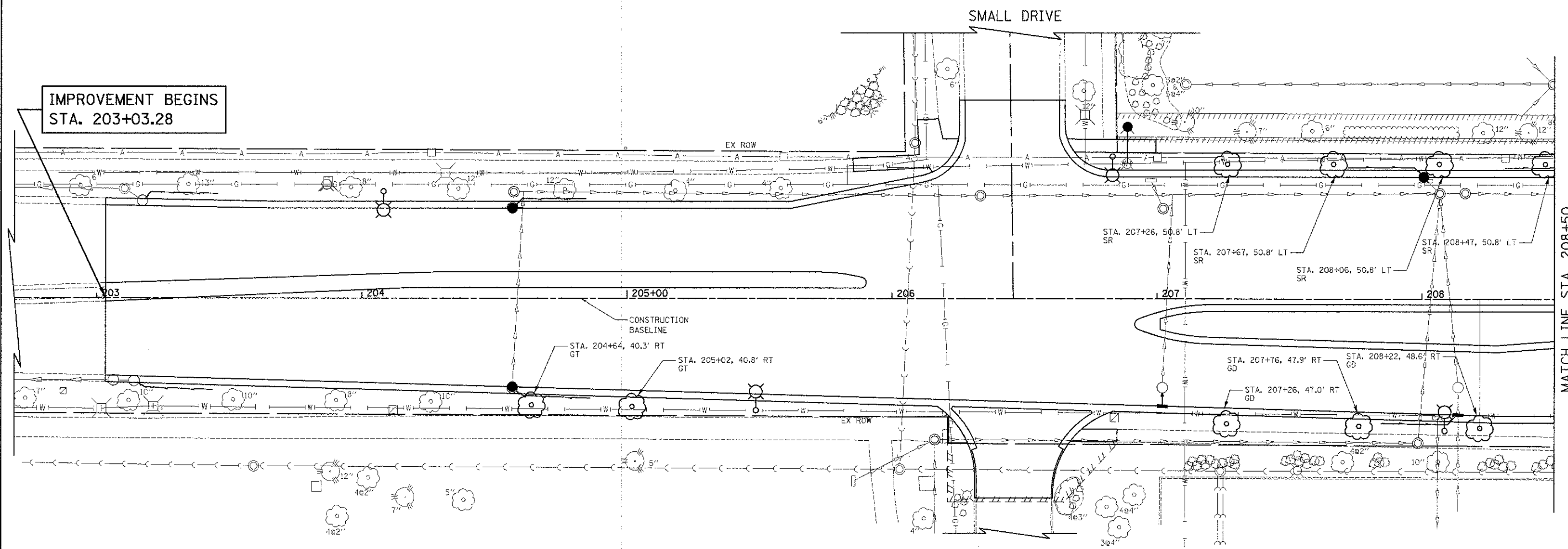
1. THE PROPOSED COLLAPSIBLE STOP SIGNS SHALL BE VERTICAL FOLD SIGN PANELS WITH A MANUFACTURER INSTALLED MECHANISM TO KEEP THE PANELS CLOSED WHEN NOT IN USE, AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "SIGN PANEL TYPE 1 (SPECIAL)".
2. ANY SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
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4. ALL NEW SIGNS ON SCHAUMBURG ROAD SHALL BE ON METAL POST, TYPE B.
5. ALL RELOCATED SIGNS SHALL BE PLACED ON METAL POST, TYPE A.



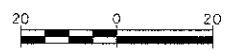
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PLOT SCALE = 50.0000' / in.	CHECKED - DJK	REVISIED -	REVISIED -			SCALE: 1" = 50'	SHEET NO. 3 OF 3 SHEETS	STA. 35+19.50 TO STA. 52+99.52	CONTRACT NO. 63629	
PLOT DATE = 8/17/2012	DATE = 8-20-12	REVISIED -	REVISIED -					FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-CUM-800310512		

PLAN	REVISED	DATE
NOTE BOOK	NO.	
NO.		

PROFILE	DATE
NO.	



SEE SHEET NO. 122 FOR PLANT LIST

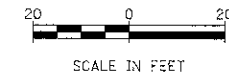
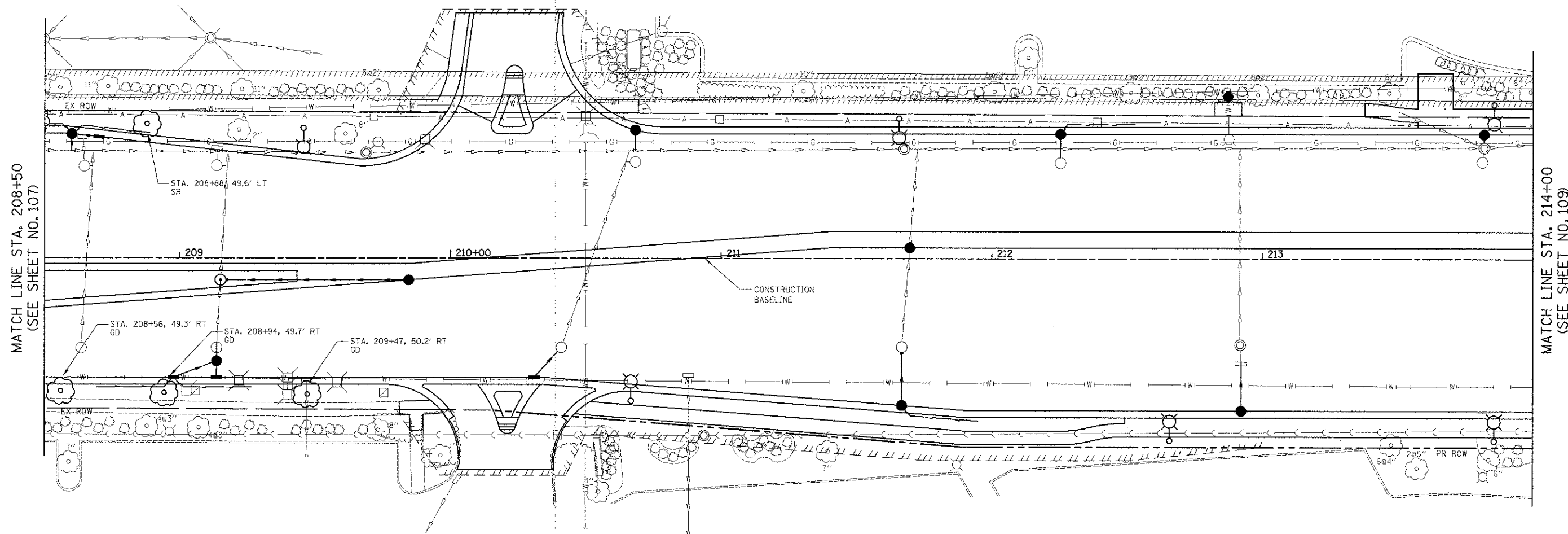


SCALE IN FEET BARRINGTON ROAD

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	PLT SCALE = 20.0000' / 1"	CHECKED - DJK	REVISED -		SCALE: 1" = 20'	SHEET NO. 1 OF 15 SHEETS	STA. 203+03.28 TO STA. 208+50	CONTRACT NO. 63629				
	PLT DATE = 8/16/2012	DATE - 8-20-12	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)							

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	BY	
	DATE	
	FILE NAME	

PROFIT	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	BY	
	DATE	
	FILE NAME	



BARRINGTON ROAD

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USER NAME = djk

DESIGNED - TW

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DRAWN - TW

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DATE - 8-20-12

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD
PLANTING PLAN

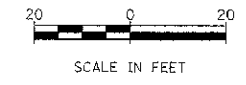
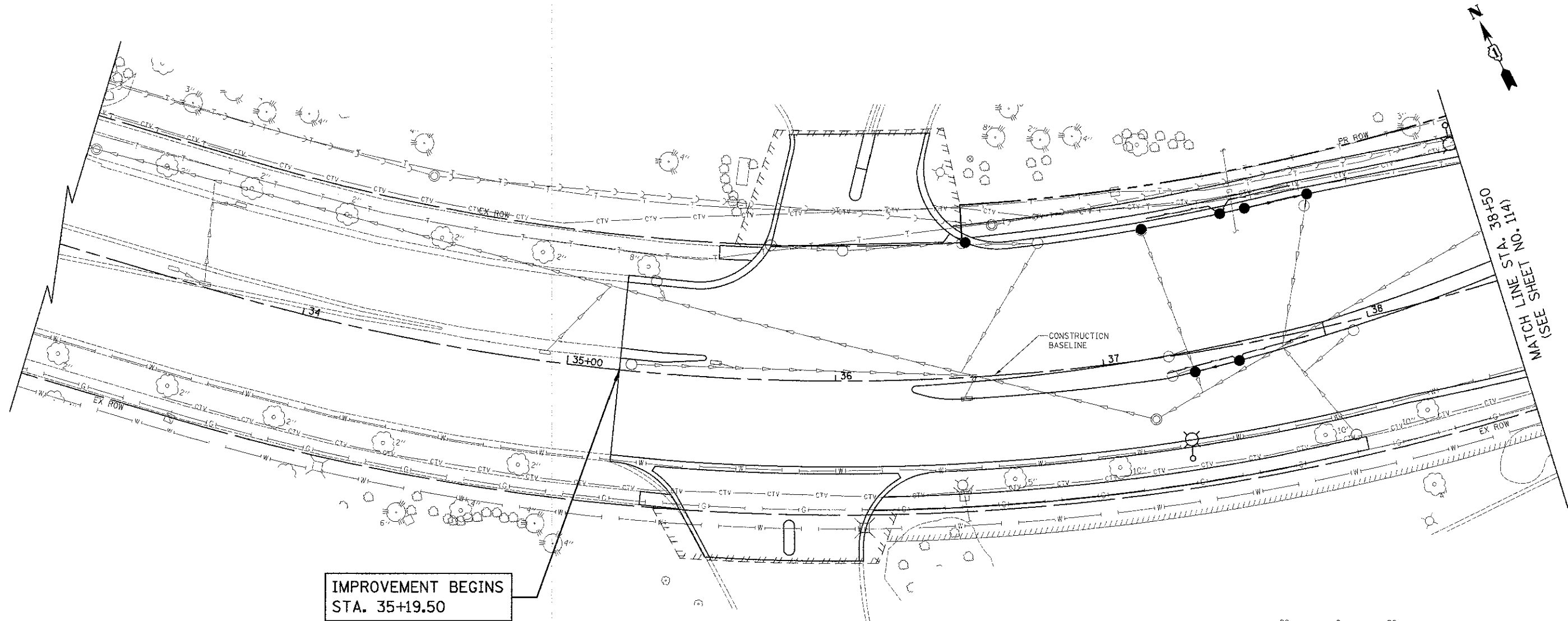
SCALE: 1" = 20' SHEET NO. 2 OF 15 SHEETS STA. 208+50 TO STA. 214+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	108
CONTRACT NO. 63629				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-8003(051)

PLAN	DRAWN	DATE
NO.	BY	
NOTE BOOK	NO. OF SHEETS	
NO.	NO. OF SHEETS	
NO.	NO. OF SHEETS	

PROFILE	DRAWN	DATE
NO.	BY	
NOTE BOOK	NO. OF SHEETS	
NO.	NO. OF SHEETS	
NO.	NO. OF SHEETS	

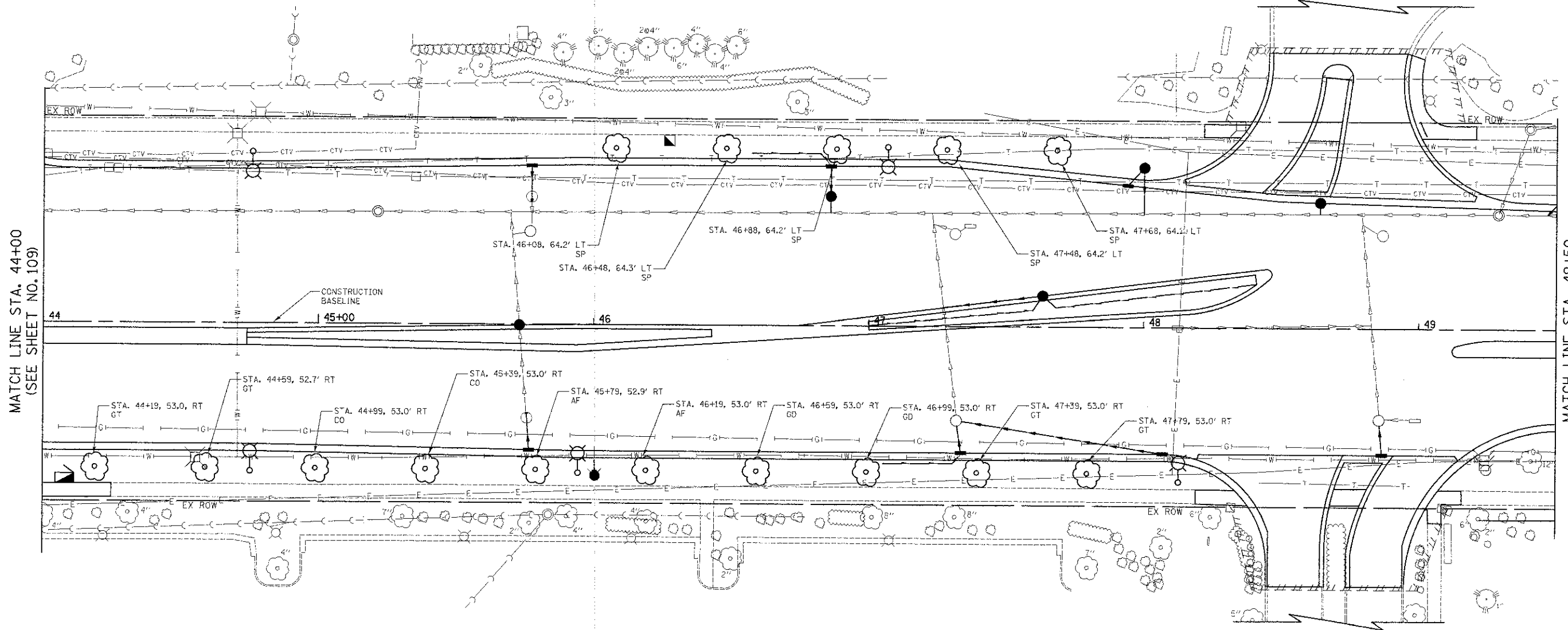


SCHAUMBURG ROAD

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PLCT DATE = 8/16/2012	DATE - 8-20-12	REVISED -									

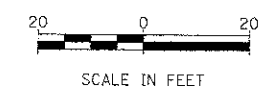
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PROFILE	CONTR. NO.	DATE
	PLotted	
	CHECKED	
	BY	
	NO. OF BOOK	
	NO. OF SHEETS	
	NO. OF SHEETS INSTALLED	



MATCH LINE STA. 44+00
(SEE SHEET NO. 109)

MATCH LINE STA. 49+50
(SEE SHEET NO. 116)



SCHAUMBURG ROAD



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

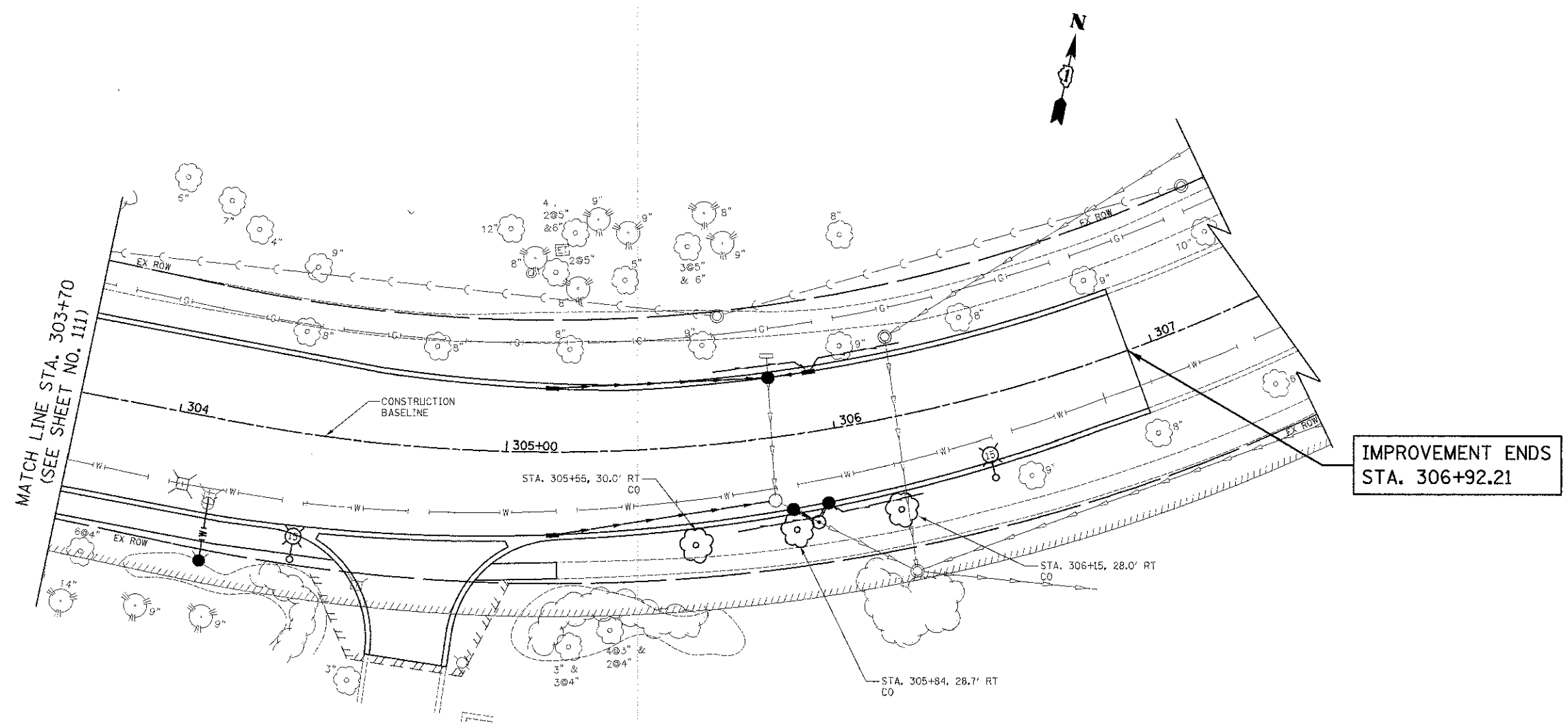
**SCHAUMBURG ROAD
 PLANTING PLAN**

SCALE: 1" = 20' SHEET NO. 11 OF 15 SHEETS STA. 44+00 TO STA. 49+50

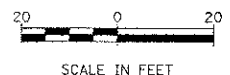
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1322	01-00074-00-CH	COOK	245	115
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-DW-800305D				

PLAN	SURVEYED	DATE
NO. BOOK	PLotted	BY
NO.	RT. OF WAY CHECKED	
	ADD FILE NAME	

PROFILE	SURVEYED	DATE
NO. BOOK	PLotted	BY
NO.	RT. OF WAY CHECKED	
	ADD FILE NAME	



IMPROVEMENT ENDS
STA. 306+92.21



HOLMES WAY

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 CHECKED - DJK
 DATE - 8-20-12

DESIGNED - TW
 DRAWN - TW
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

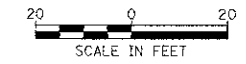
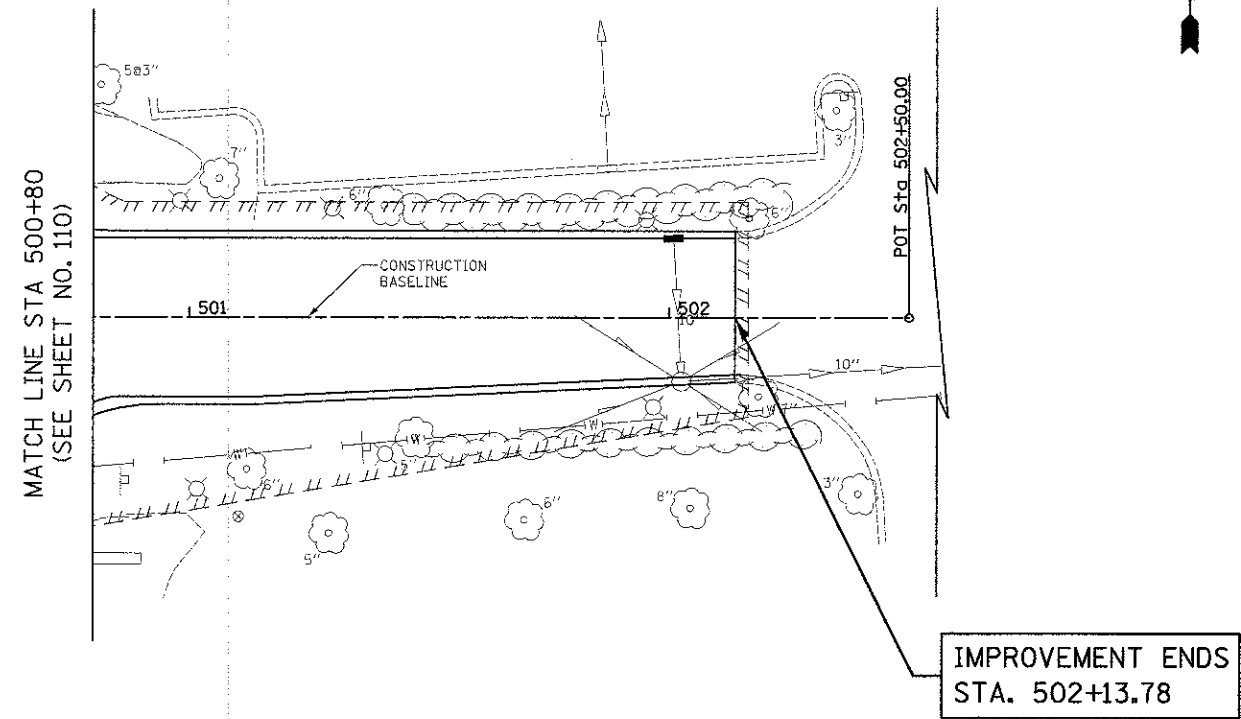
HOLMES WAY
 PLANTING PLAN

SCALE: 1" = 20' SHEET NO. 14 OF 15 SHEETS STA. 303+70 TO STA. 306+92.21

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	118
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CHM-803(05U)				

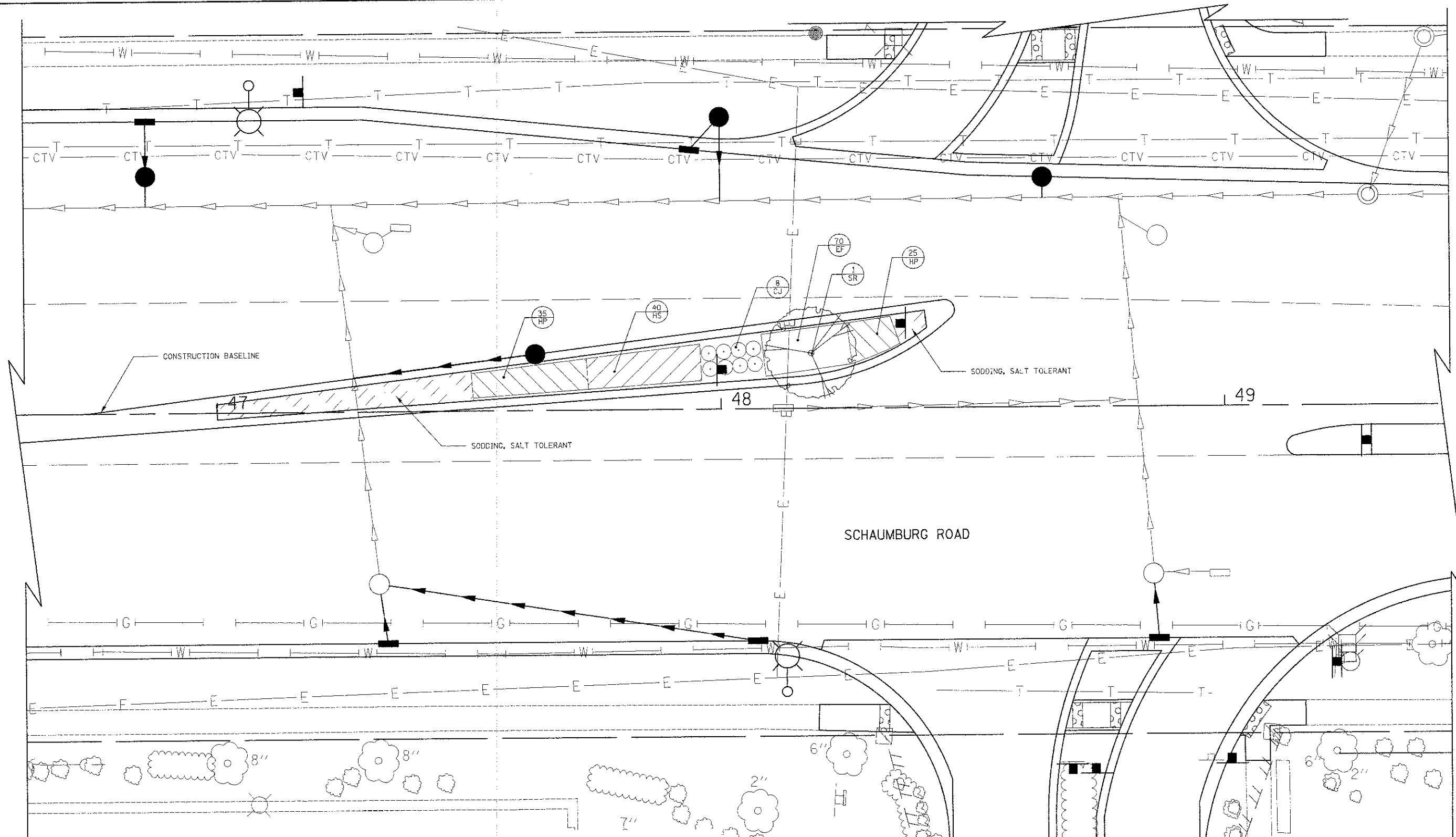
PLAN	DESIGNED	BY	DATE
NOTE BOOK NO.	CHECKED		
	PLANNED		
	FILE NAME		

PROFILE	DESIGNED	BY	DATE
NOTE BOOK NO.	CHECKED		
	PLANNED		
	FILE NAME		

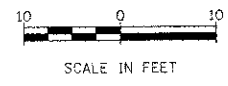


KOHL'S/LOWES ENTRANCE

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PLOT SCALE = 20.0000' / 1"	CHECKED - DJK	DATE - 8-20-12	REVISED -			SCALE: 1" = 20'	SHEET NO. 15 OF 15 SHEETS	STA. 500+80	TO STA. 502+50.00	CONTRACT NO. 63629		
PLOT DATE = 8/16/2012	DATE - 8-20-12	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)						



PLANT LIST			PLANT LIST		
KEY	COMMON NAME	BOTANICAL NAME	KEY	COMMON NAME	BOTANICAL NAME
SHADE TREES			SHRUBS		
GT	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS	CJ	TEXAS SCARLET QUINCE	CHAENOMELES JAPONICA 'TEXAS SCARLET'
GD	KENTUCKY COFFEETREE	GYMNOCLADUS DIOICUS	RR	CAREFREE DELIGHT SHRUB ROSE	ROSA RUGOSA 'CAREFREE DELIGHT'
CO	COMMON HACKBERRY	CELTIS OCCIDENTALIS	PERENNIALS		
AF	MARMO MAPLE	ACER X FREEMANII 'MARMO'	HS	STELLA D'ORO DAYLILY	HEMEROCALLIS 'STELLA D'ORO'
ORNAMENTAL TREES			HP	PURPLE PALACE CORAL BELLS	HUECHERA X 'PURPLE PALACE'
SP	CHINA SNOW PEKING LILAC	SYRINGA PEKINENSIS MORTON/CHINA SNOW	EF	PURPLELEAF WINTERCREEPER	EUONYMUS FORTUNEI VAR. COLORATUS
SR	IVORY SILK JAPANESE LILAC	SYRINGA RETICULATA 'IVORY SILK'	SS	MAY NIGHT SALVIA	SALVIA X SUPERBA 'MAY NIGHT'
MP	PRAIRIEFIRE CRABAPPLE	MALUS 'PRAIRIEFIRE'			



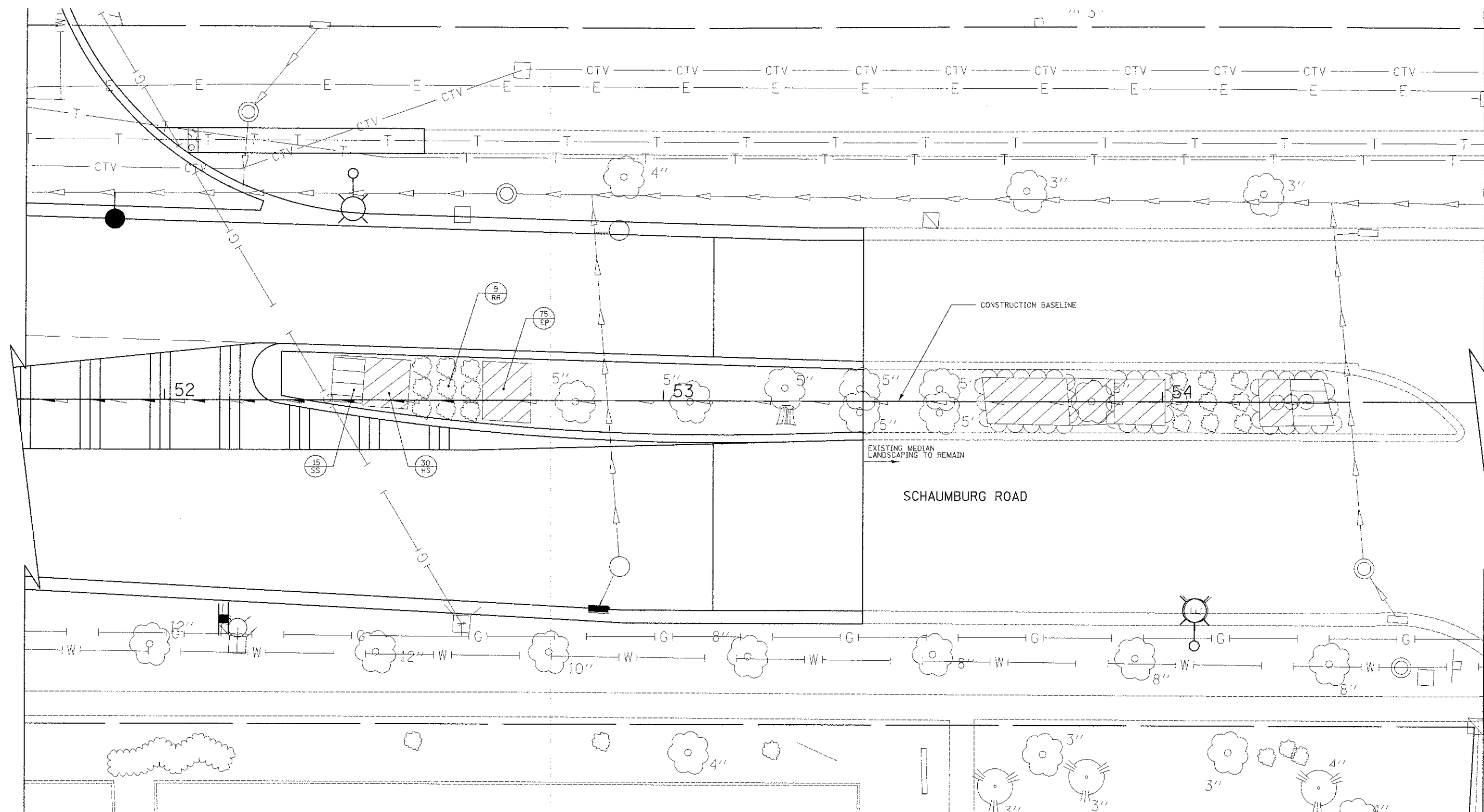
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

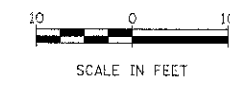
**SCHAUMBURG ROAD
MEDIAN PLANTING PLAN**

SCALE: 1" = 10' SHEET NO. 1 OF 2 SHEETS STA. 35+19.50 TO STA. 52+99.92

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	120
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 4-CMM-800305U				



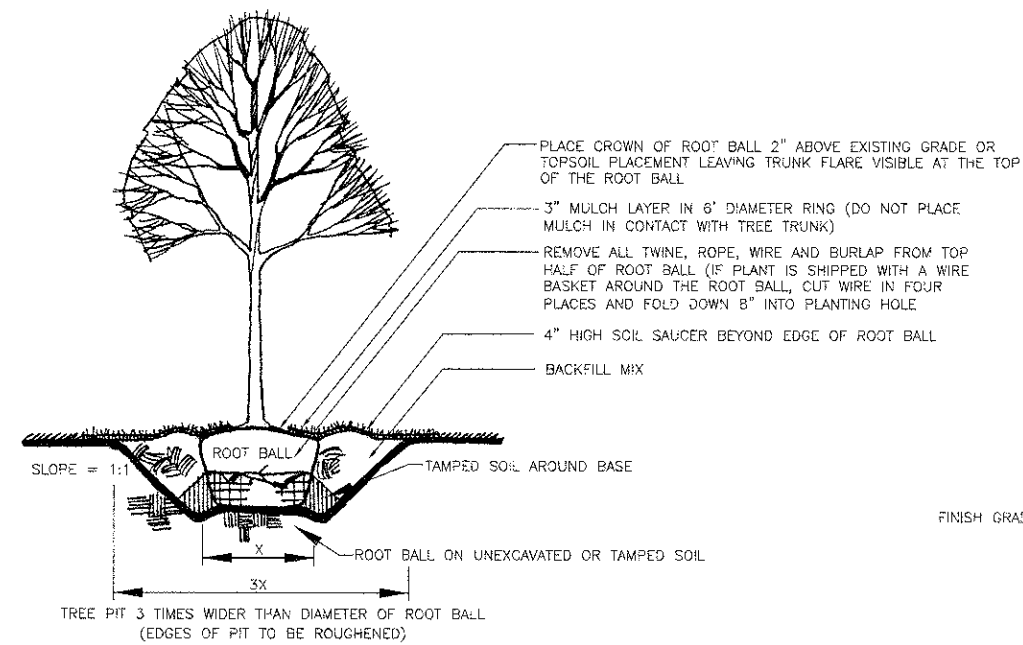
PLANT LIST			PLANT LIST		
KEY	COMMON NAME	BOTANICAL NAME	KEY	COMMON NAME	BOTANICAL NAME
SHADE TREES			SHRUBS		
GT	SKYLINE HONEYLOCUST	GLADISTIA TRIACANTHOS VAR. INERMIS	CJ	TEXAS SCARLET QUINCE	CHAENOMELES JAPONICA 'TEXAS SCARLET'
GD	KENTUCKY COFFEETREE	GYMNOCLADUS DIOICUS	RR	CAREFREE DELIGHT SHRUB ROSE	ROSA RUGOSA 'CAREFREE DELIGHT'
CO	COMMON HACKBERRY	CELTIS OCCIDENTALIS	PERENNIALS		
AF	MARMO MAPLE	ACER X FREEMANII 'MARMO'	HS	STELLA D'ORO DAYLILY	HEMEROCALLIS 'STELLA D'ORO'
ORNAMENTAL TREES			HP	PURPLE PALACE CORAL BELLS	HUECHERA X 'PURPLE PALACE'
SP	CHINA SNOW PEKING LILAC	SYRINGA PEKINENSIS MORTON/CHINA SNOW'	EF	PURPLELEAF WINTERCREEPER	ELIONYMUS FORTUNEI VAR. COLORATUS
SR	IVORY SILK JAPANESE LILAC	SYRINGA RETICULATA 'IVORY SILK'	SS	MAY NIGHT SALVIA	SALVIA X SUPERBA 'MAY NIGHT'
MP	PRAIRIEFIRE CRABAPPLE	MALUS 'PRAIRIEFIRE'			



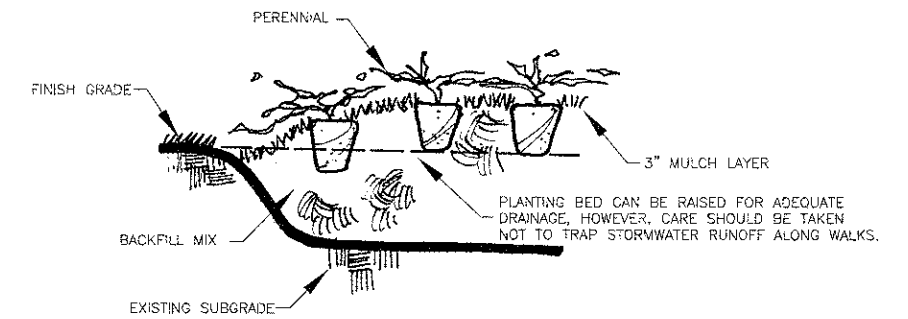
PLANT LIST			
KEY	COMMON NAME	BOTANICAL NAME	QTY
SHADE TREES			
GT	SKYLINE HONEYLOCUST	CLEDITSIA TRIACANTHOS VAR. INERMIS	10
GD	KENTUCKY COFFEETREE	GYMNOCLADUS DIOICUS	8
CO	COMMON HACKBERRY	CELTIS OCCIDENTALIS	5
AF	MARMO MAPLE	ACER X FREEMANII 'MARMO'	2
ORNAMENTAL TREES			
SP	CHINA SNOW PEKING LILAC	SYRINGA PEKINENSIS MORTON 'CHINA SNOW'	5
SR	IVORY SILK JAPANESE LILAC	SYRINGA RETICULATA 'IVORY SILK'	15
MP	PRAIRIEFIRE CRABAPPLE	MALUS 'PRAIRIEFIRE'	3
SHRUBS			
CJ	TEXAS SCARLET QUINCE	CHAENOMELES JAPONICA 'TEXAS SCARLET'	8
RR	CAREFREE DELIGHT SHRUB ROSE	ROSA MEIPOTAL 'CAREFREE DELIGHT'	9
PERENNIALS			
HS	STELLA D'ORO DAYLILY	HEMEROCALLIS 'STELLA D'ORO'	70
HP	PURPLE PALACE CORAL BELLS	HUECHERA X 'PURPLE PALACE'	60
EF	PURPLELEAF WINTERCREEPER	EUONYMUS FORTUNEI VAR. COLORATUS	145
SS	MAY NIGHT SALVIA	SALVIA X SUPERBA 'MAY NIGHT'	15

LANDSCAPE NOTES:

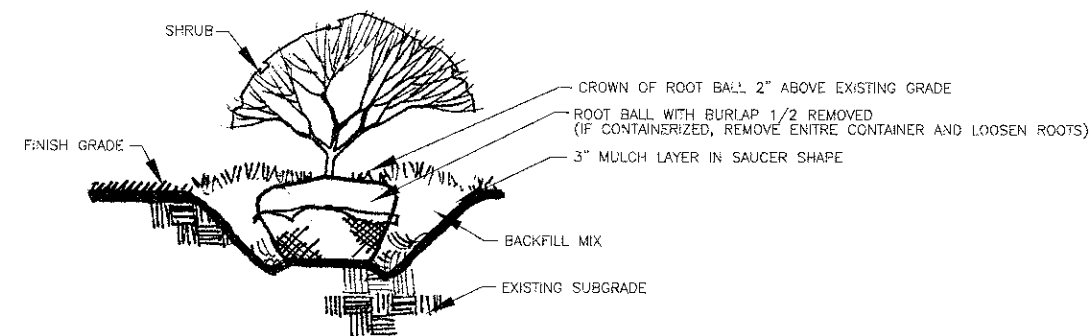
- LAYOUT COMPLETE PLANTING AS PER LANDSCAPE PLAN.
- NOTIFY THE VILLAGE'S LANDSCAPE ARCHITECT (847-923-3866) SEVEN (7) WORKING DAYS PRIOR TO LANDSCAPE INSTALLATION. THE LANDSCAPE ARCHITECT MUST EXAMINE THE SITE PRIOR TO THE SPREADING OF TOPSOIL TO ASSESS GROWING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO STARTING CONSTRUCTION. FOR LOCATIONS CALL "J.U.L.I.E." (800-892-0123 OR 811)
- LOCATIONS AND GRADES ARE APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO STARTING WORK.
- THE LANDSCAPE CONTRACTOR SHALL REPORT ANY DISCREPANCIES ON THE LANDSCAPE PLAN TO THE ENGINEER AND GET WRITTEN APPROVAL FOR CHANGES BEFORE COMMENCING WITH CONSTRUCTION.
- ALL PLANT SPECIES SPECIFIED ARE SUBJECT TO AVAILABILITY. NO SUBSTITUTION OF PLANT MATERIAL SHALL BE ALLOWED UNLESS APPROVED THROUGH WRITTEN CONSENT BY THE ENGINEER.
- PLANT SYMBOLS ARE NOT LITERAL REPRESENTATIONS. THEY ARE ILLUSTRATED ON THE LANDSCAPE PLAN AS THE GRAPHIC REPRESENTATION OF THE PROPOSED PLANT MATERIAL. THEY DO NOT NECESSARILY REPRESENT THE SPREAD OF THE PLANT AT THE TIME OF INSTALLATION.
- DO NOT SHEAR ANY PLANT MATERIALS. HAND PRUNE AS NEEDED.
- CLEAN UP ALL AREAS, SWEEP WALKS AND DRIVES, AND HAUL AWAY DEBRIS AT TIME OF PLANTING.
- GENERAL PLANTING INSTRUCTIONS:
DO NOT BREAK OR DAMAGE ROOT BALL.
DO NOT ALLOW AIR POCKETS WHEN BACKFILLING.
WATER PLANT MATERIAL IMMEDIATELY AFTER PLANTING.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED SUB-STANDARD.
- THE CONTRACTOR SHALL PROVIDE PLANT MATERIAL THAT IS DISEASE AND PEST FREE. ALL PLANT MATERIAL SHALL BE GRADE A NURSERY STOCK AND SHALL BE HEALTHY AND VIGOROUS.
- THE LANDSCAPE CONTRACTOR SHALL MEET OR EXCEED THE STANDARDS SET FORTH IN THE AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION AND THE STANDARD SPECIFICATIONS.



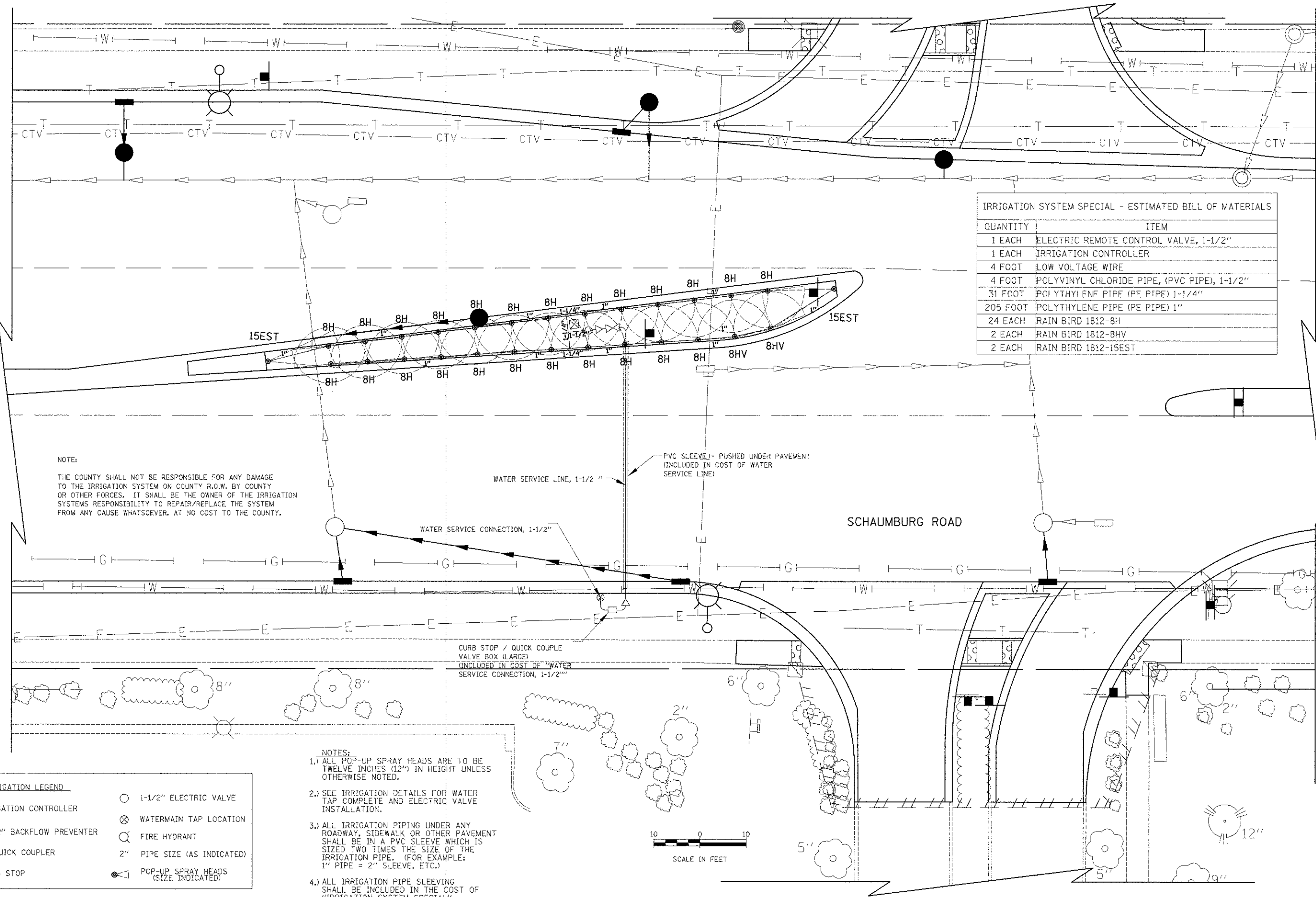
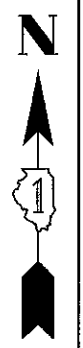
1 SHADE TREE PLANTING DETAIL
N.T.S.



3 PERENNIAL AND VINE PLANTING DETAIL
N.T.S.



2 SHRUB PLANTING DETAIL
N.T.S.

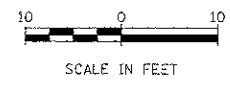


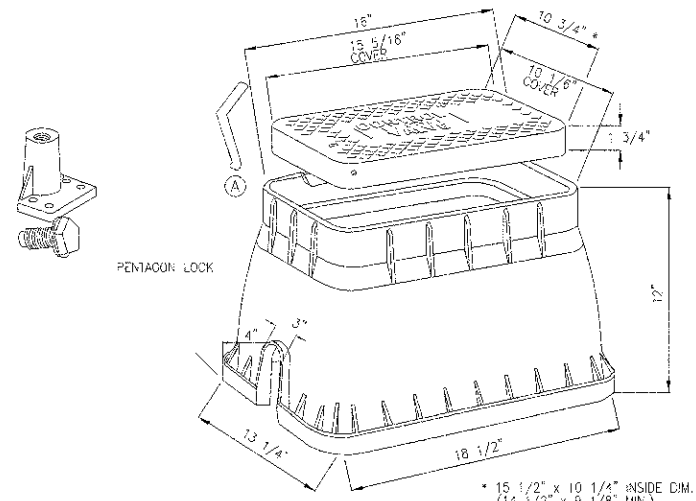
IRRIGATION SYSTEM SPECIAL - ESTIMATED BILL OF MATERIALS	
QUANTITY	ITEM
1 EACH	ELECTRIC REMOTE CONTROL VALVE, 1-1/2"
1 EACH	IRRIGATION CONTROLLER
4 FOOT	LOW VOLTAGE WIRE
4 FOOT	POLYVINYL CHLORIDE PIPE, (PVC PIPE), 1-1/2"
31 FOOT	POLYTHYLENE PIPE (PE PIPE) 1-1/4"
205 FOOT	POLYTHYLENE PIPE (PE PIPE) 1"
24 EACH	RAIN BIRD 1812-8H
2 EACH	RAIN BIRD 1812-8HV
2 EACH	RAIN BIRD 1812-15EST

NOTE:
 THE COUNTY SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE IRRIGATION SYSTEM ON COUNTY R.O.W. BY COUNTY OR OTHER FORCES. IT SHALL BE THE OWNER OF THE IRRIGATION SYSTEMS RESPONSIBILITY TO REPAIR/REPLACE THE SYSTEM FROM ANY CAUSE WHATSOEVER, AT NO COST TO THE COUNTY.

- NOTES:
- 1.) ALL POP-UP SPRAY HEADS ARE TO BE TWELVE INCHES (12") IN HEIGHT UNLESS OTHERWISE NOTED.
 - 2.) SEE IRRIGATION DETAILS FOR WATER TAP COMPLETE AND ELECTRIC VALVE INSTALLATION.
 - 3.) ALL IRRIGATION PIPING UNDER ANY ROADWAY, SIDEWALK OR OTHER PAVEMENT SHALL BE IN A PVC SLEEVE WHICH IS SIZED TWO TIMES THE SIZE OF THE IRRIGATION PIPE. (FOR EXAMPLE: 1" PIPE = 2" SLEEVE, ETC.)
 - 4.) ALL IRRIGATION PIPE SLEEVING SHALL BE INCLUDED IN THE COST OF "IRRIGATION SYSTEM SPECIAL"

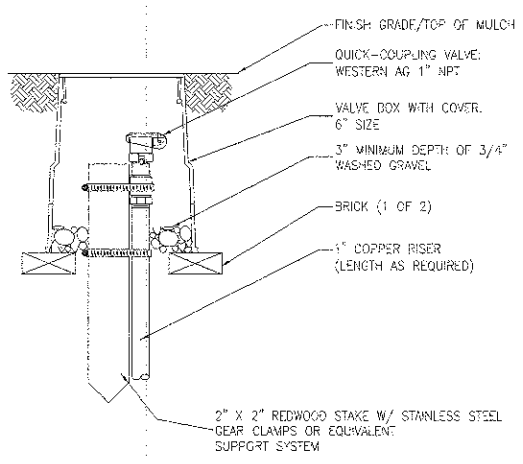
IRRIGATION LEGEND	
	IRRIGATION CONTROLLER
	1-1/2" ELECTRIC VALVE
	1-1/2" BACKFLOW PREVENTER
	WATERMAIN TAP LOCATION
	1" QUICK COUPLER
	FIRE HYDRANT
	CURB STOP
	2" PIPE SIZE (AS INDICATED)
	POP-UP SPRAY HEADS (SIZE INDICATED)





NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

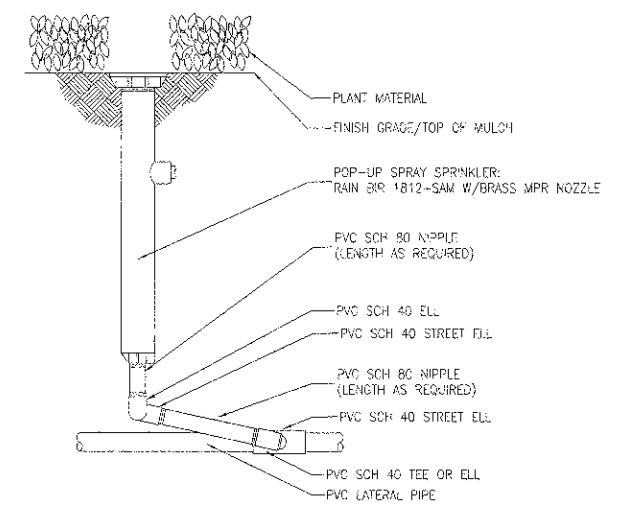
VALVE BOX (LARGE)



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

QUICK COUPLE

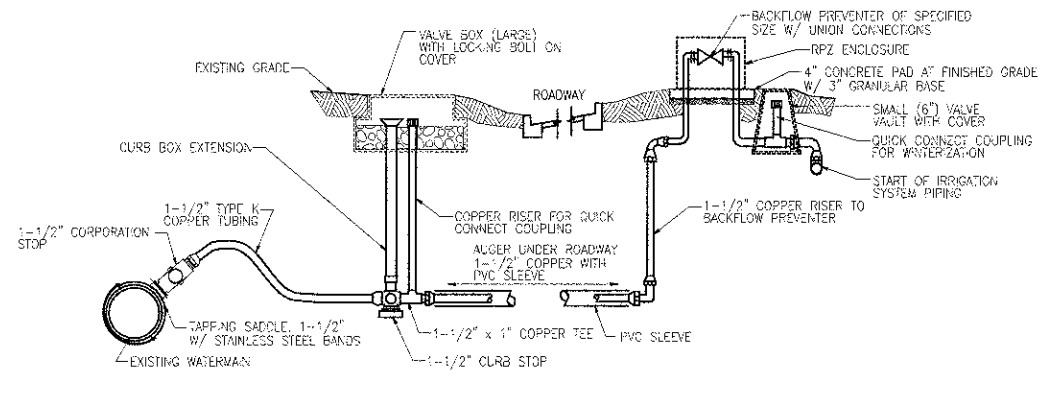
RUBBER COVERED QUICK COUPLING VALVE IN A VALVE BOX, ON A SWING JOINT STABILIZED WITH A REDWOOD STAKE AND CLAMPS.



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

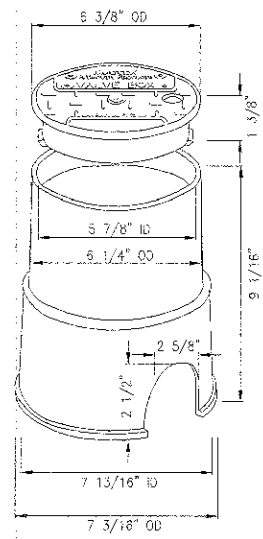
1812 POP-UP SPRAY SPRINKLER

12" PLASTIC POP-UP SPRAY HEAD ON SWING JOINT, SHOWING BOTTOM VIEW

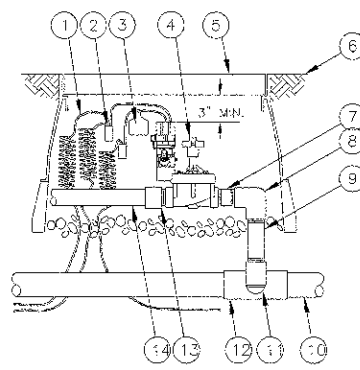


WATER SERVICE CONNECTION & BACKFLOW PREVENTER DETAIL FOR MEDIAN IRRIGATION SYSTEM

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

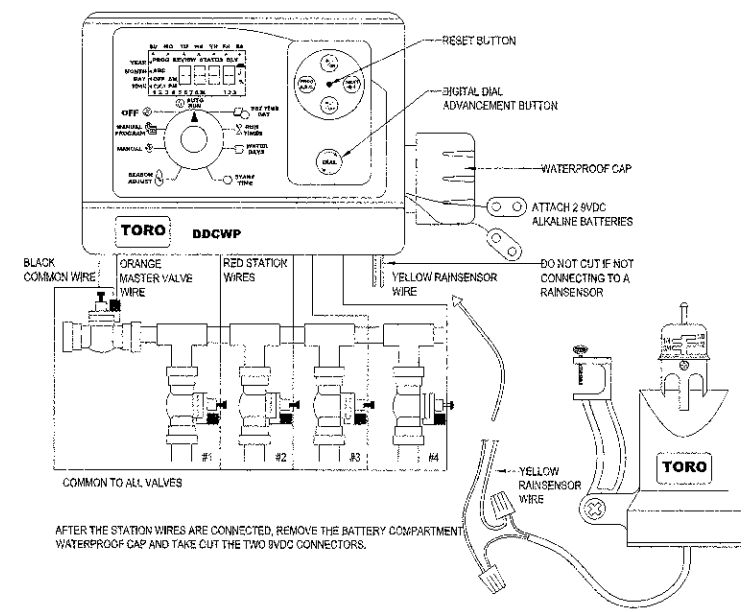


VALVE BOX 6"



- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION
- 3 10 TAG: RAIN BIRD WD SERIES
- 4 REMOTE CONTROL VALVE: RAIN BIRD PEB
- 5 VALVE BOX WITH COVER
- 6 FINISH GRADE/TOP OF MULCH
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 PVC MAINLINE PIPE
- 11 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 12 PVC SCH 40 TEE OR ELL
- 13 PVC SCH 40 MALE ADAPTER
- 14 PVC LATERAL PIPE

ELECTRIC REMOTE CONTROL VALVE



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetail.com/info REFERENCE NUMBER 065-316.

DDCWP TORO CONTROLLER

INSTALLATION DETAIL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF SCHAUMBURG. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK-UP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

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

- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 4 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH SIGNAL HEAD, 2-FACE, 5-SECTION
- 1 EACH SERVICE INSTALLATION

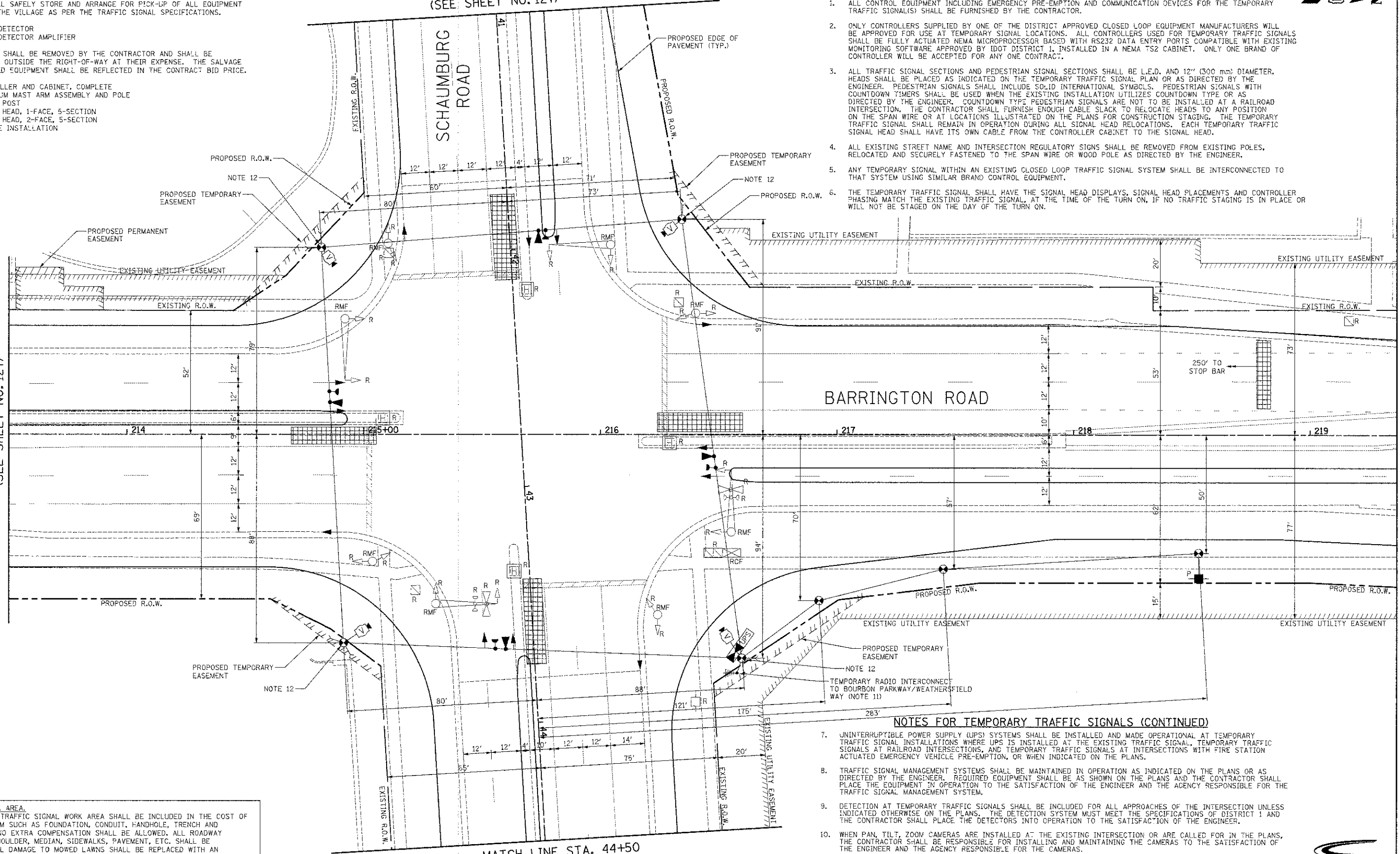
MATCH LINE STA. 41+00
(SEE SHEET NO. 127)

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE L.E.D. AND 12" (300 mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

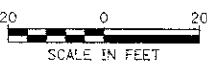


MATCH LINE STA. 213+50
(SEE SHEET NO. 127)



NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
11. THE RADIO INTERCONNECT ANTENNA AT THE BOURBON PKWY./WEATHERSFIELD WAY/BARRINGTON ROAD INTERSECTION SHALL BE INSTALLED ON THE SOUTHWEST MAST ARM POLE. ALL WORK AND MATERIALS REQUIRED TO INSTALL THE TEMPORARY RADIO INTERCONNECT AND ENSURE PROPER OPERATION TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
12. THE TEMPORARY WOOD POLES AT THE INTERSECTION SHALL BE 60 FEET IN HEIGHT TO ACCOMMODATE TEMPORARY LIGHTING AT THE INTERSECTION.



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

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

MATCH LINE STA. 44+50
(SEE SHEET NO. 127)

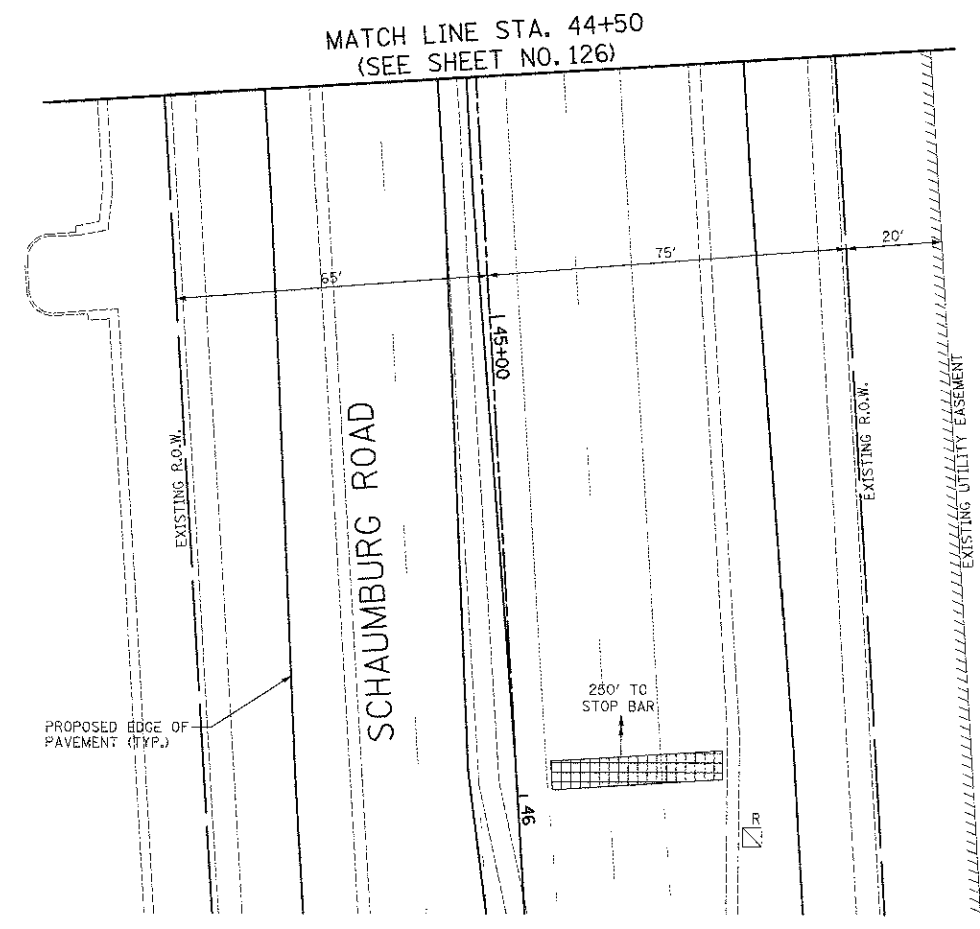
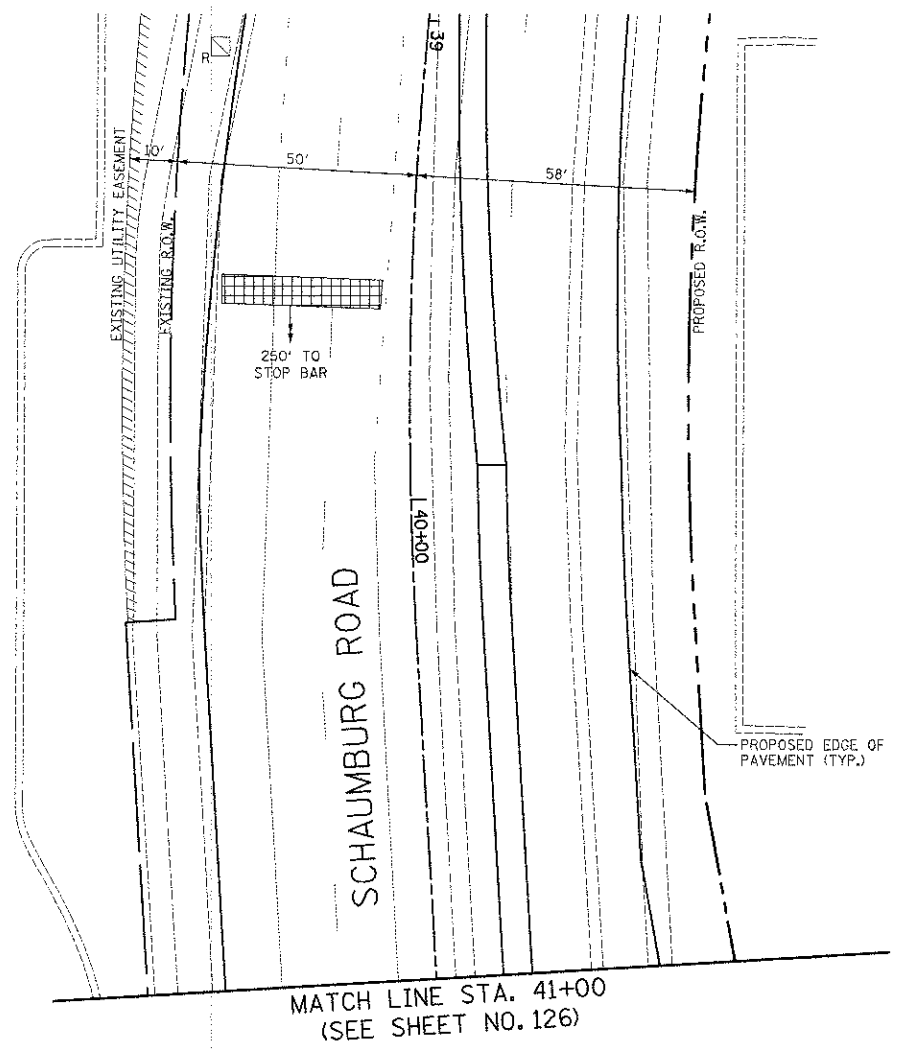
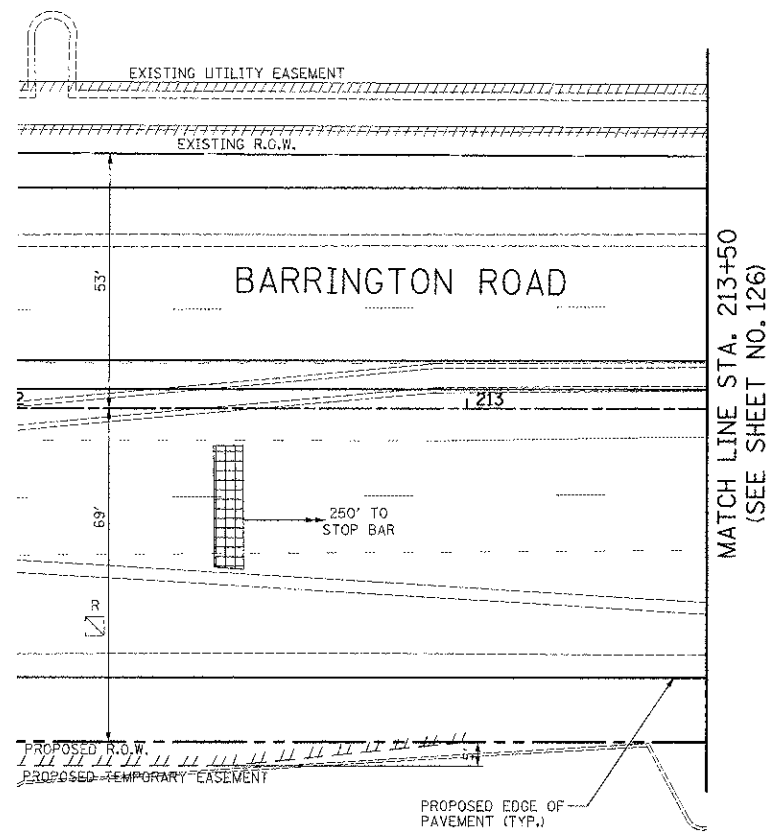
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PLOT SCALE = 20,0000' / 1"		CHECKED - JJE	REVISED -
PLOT DATE = 8/16/2012		DATE - 8-20-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
BARRINGTON ROAD AND SCHAUMBURG ROAD

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	126
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-0M-8003(05D)				



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 253 RESPECTIVELY.

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



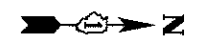
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	PLOT DATE = 6/16/2012	DATE - 8-20-12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

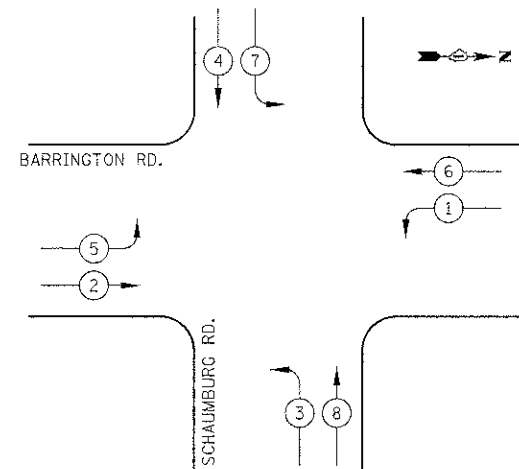
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
BARRINGTON ROAD AND SCHAUMBURG ROAD**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

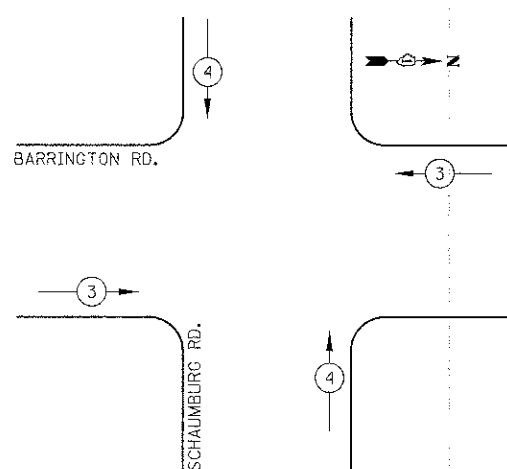
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1322	01-00074-00-CH	COOK	245	127
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				



TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

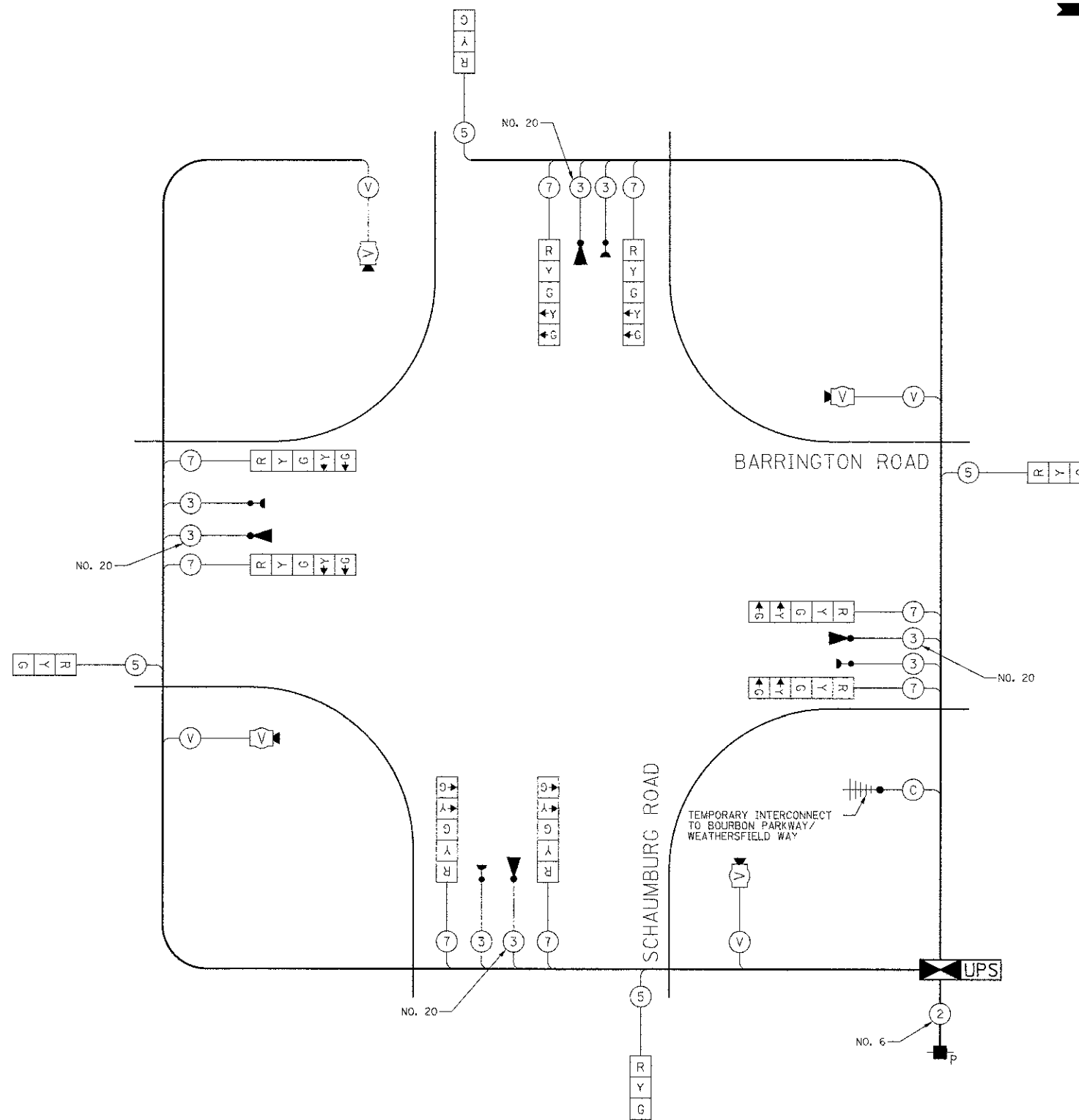


LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		



TEMPORARY CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
TOTAL =					491

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MARK GLOECKLE
PHONE: (630) 691-4529
COMPANY: COM ED

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



FILE NAME =	USER NAME = d.jk	DESIGNED - BRD	REVISED -
...\\02.Barrington-Schaumburg Temp Cable	Plan.dgn	DRAWN - OJT	REVISED -
	PLOT SCALE = 50,0000 1/16"	CHECKED - JUE	REVISED -
	PLOT DATE = 8/16/2012	DATE - 8-20-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

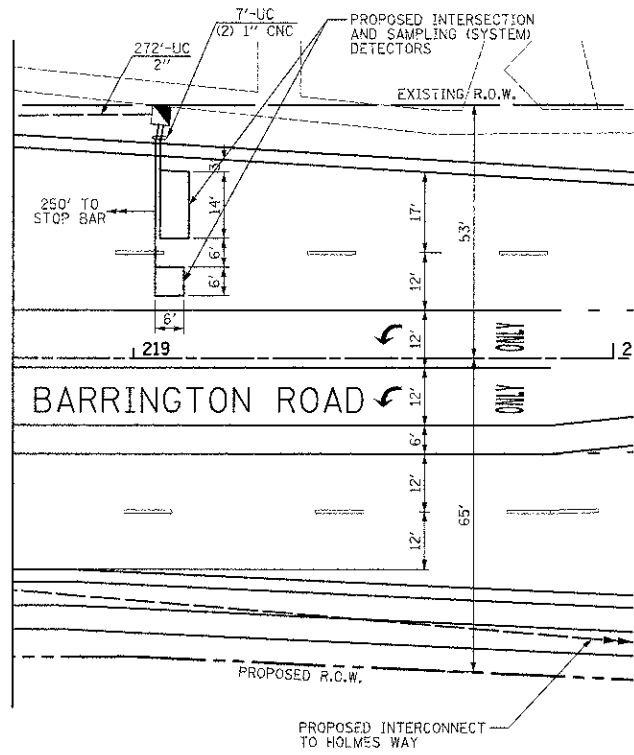
TEMPORARY CABLE PLAN, TEMPORARY SEQUENCE OF OPERATION
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AND SCHAUMBURG ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT M-CMM-8003051	

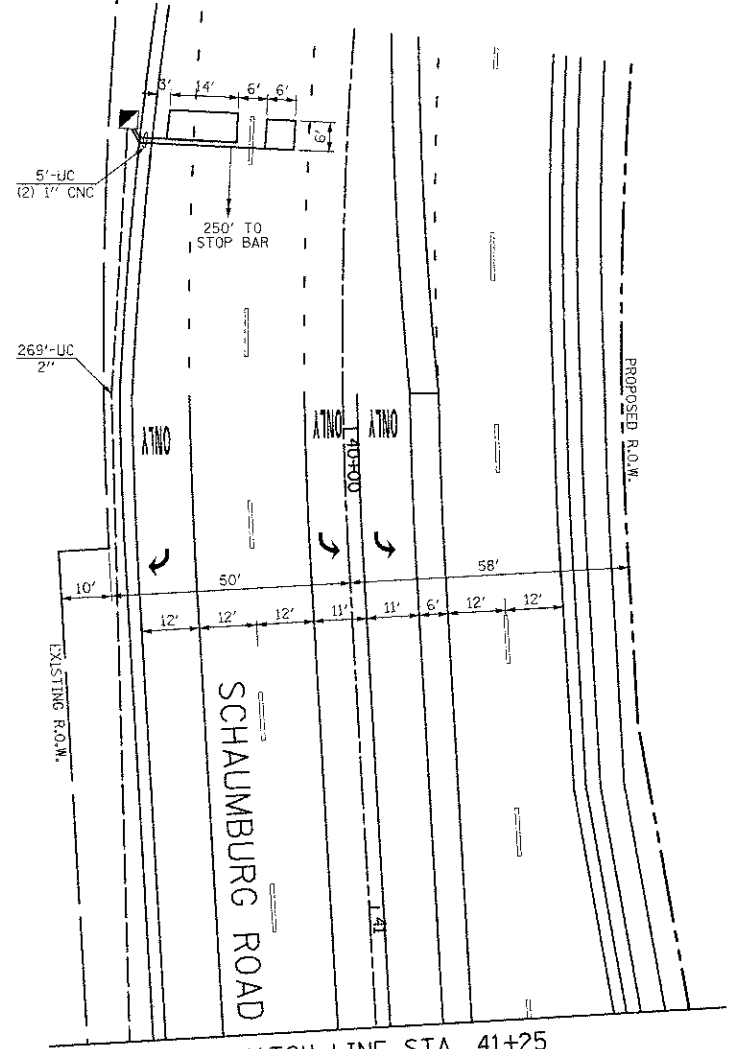
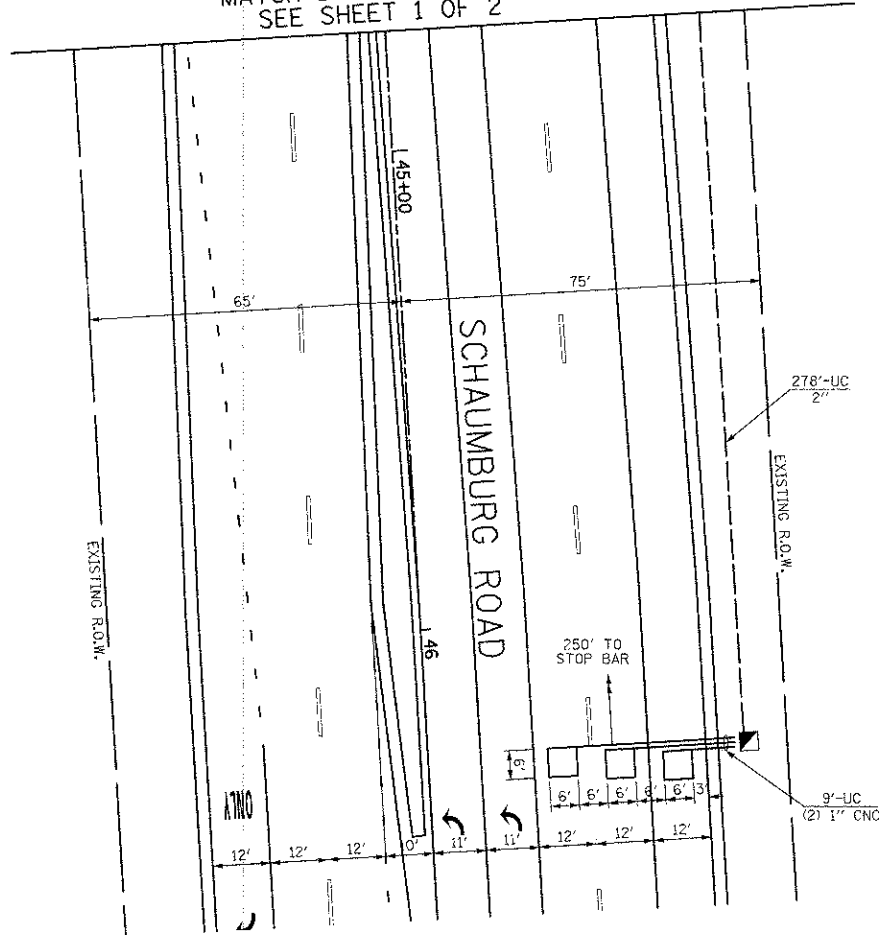
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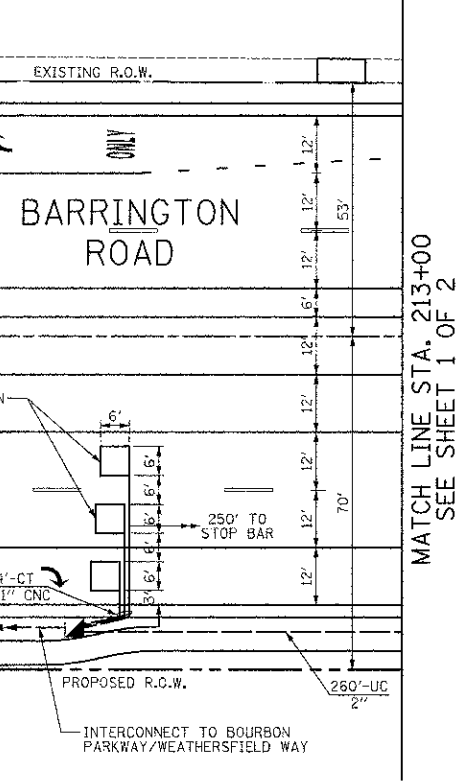
MATCH LINE STA. 218+75
SEE SHEET 1 OF 2



MATCH LINE STA. 44+75
SEE SHEET 1 OF 2



MATCH LINE STA. 41+25
SEE SHEET 1 OF 2

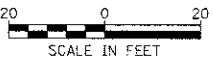


MATCH LINE STA. 213+00
SEE SHEET 1 OF 2



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

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



FILE NAME =	USER NAME = djk	DESIGNED - BRD	REVISED -
...104.Barrington-Schaumburg Sig Inst Plan	2.dgn	DRAWN - OJT	REVISED -
	PLOT SCALE = 22.0000' / 1" =	CHECKED - JUE	REVISED -
	PLOT DATE = 8/16/2012	DATE - 8-20-12	REVISED -

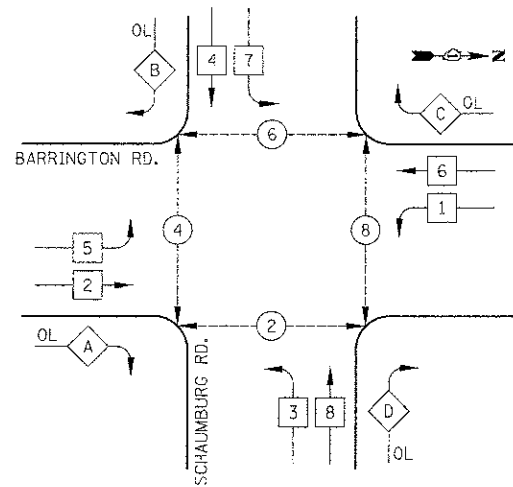
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
BARRINGTON ROAD AND SCHAUMBURG ROAD

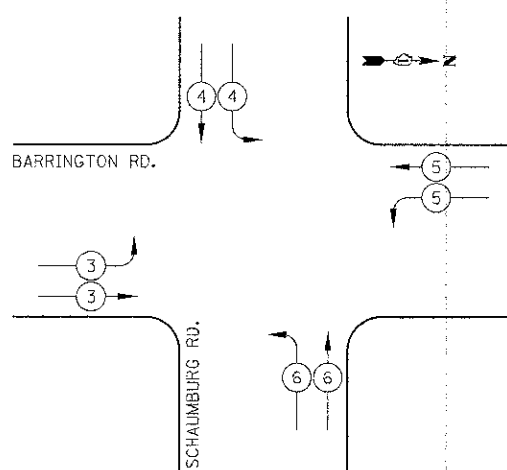
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I.L. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	130
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-CMM-0003(051)			CONTRACT NO. 63629	

PROPOSED CONTROLLER SEQUENCE

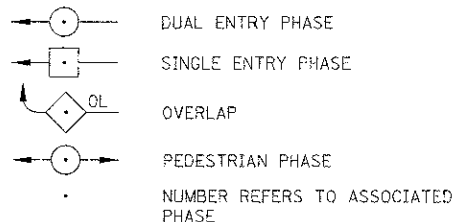


PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

LEGEND



PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

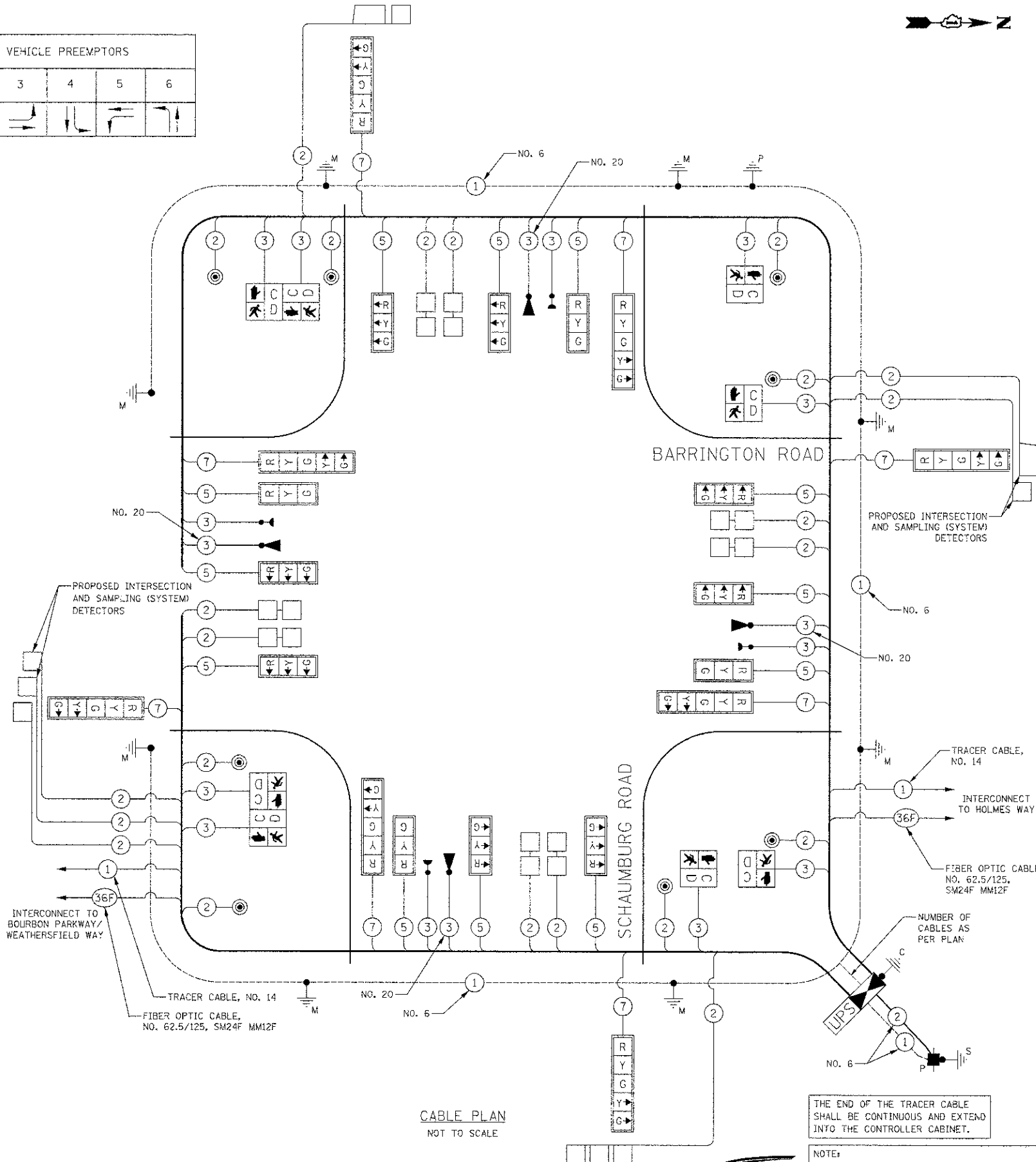
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	40
SIGN PANEL - TYPE 2	SQ FT	42
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1595
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	147
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	882
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1792
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3042
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3456
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2152
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4958
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	202
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1402
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	15
DETECTOR LOOP, TYPE I	FOOT	871
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1200
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO VILLAGE OF SCHAUMBURG

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	16		12	0.10	19
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					689

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: MARK GLOECKLE
PHONE: (630) 691-4529
COMPANY: COM ED



CABLE PLAN
NOT TO SCALE

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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



FILE NAME =	USER NAME = djk	DESIGNED - BRD	REVISED -
...185_Barrington-Schaumburg Cable Plan.dwg		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 8-20-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

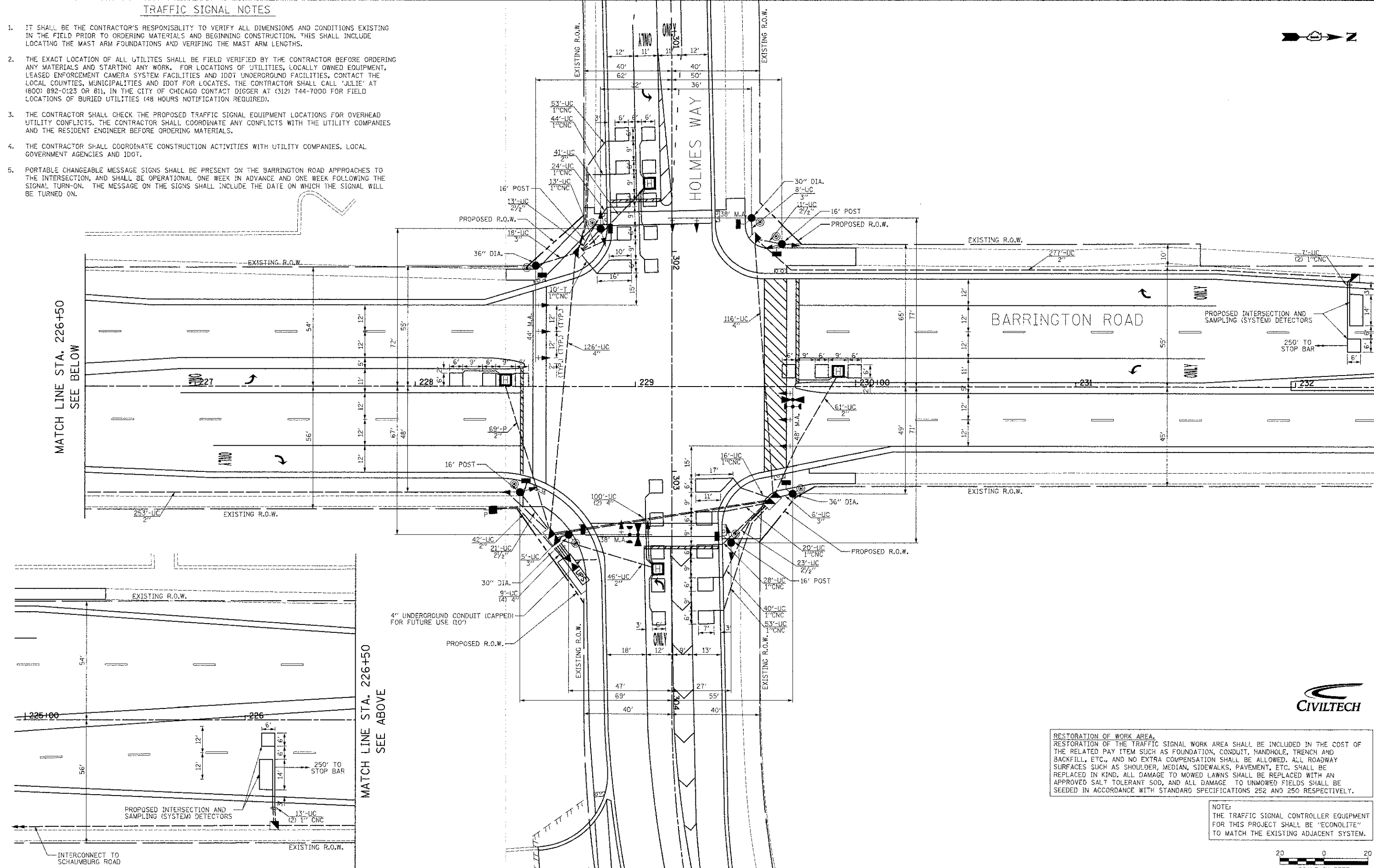
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AND SCHAUMBURG ROAD

NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	131
				CONTRACT NO. 63629
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-CMM-8003(051)				

TRAFFIC SIGNAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PRESENT ON THE BARRINGTON ROAD APPROACHES TO THE INTERSECTION, AND SHALL BE OPERATIONAL ONE WEEK IN ADVANCE AND ONE WEEK FOLLOWING THE SIGNAL TURN-ON. THE MESSAGE ON THE SIGNS SHALL INCLUDE THE DATE ON WHICH THE SIGNAL WILL BE TURNED ON.

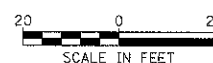


MATCH LINE STA. 226+50
SEE BELOW

MATCH LINE STA. 226+50
SEE ABOVE

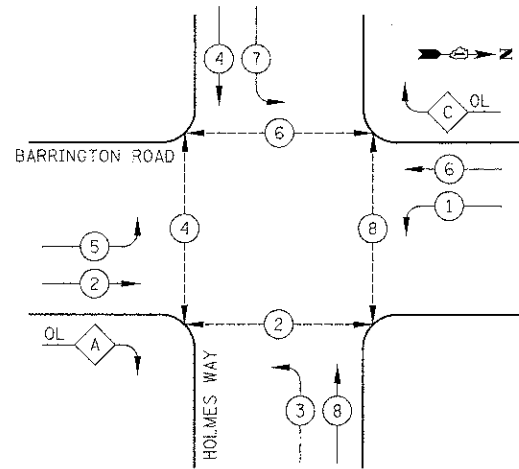
RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT,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

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

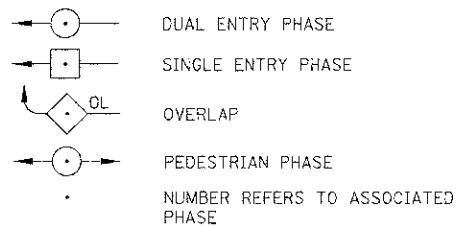


FILE NAME = ...106_Barrington-Holmes Sig Inst Plan.dwg	USER NAME = djjk	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN BARRINGTON ROAD AND HOLMES WAY	F.A.U. RTE. 1322	SECTION 01-00074-GO-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 132
PLOT SCALE = 20.0000' / 1" =	CHECKED - JJE	REVISOR -	REVISOR -			SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 63629	
PLOT DATE = 8/17/2012	DATE - 8-20-12	REVISOR -	REVISOR -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-CMA-80030501				

PROPOSED CONTROLLER SEQUENCE



LEGEND

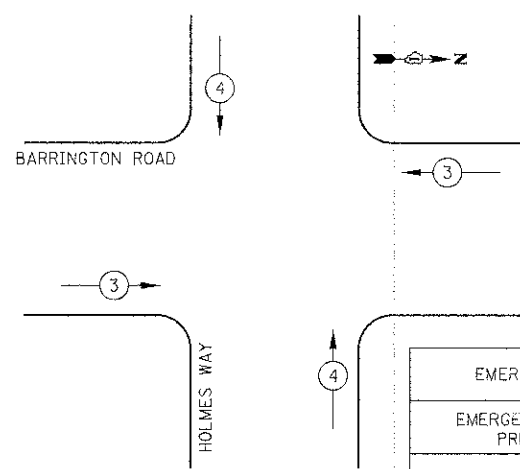


PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

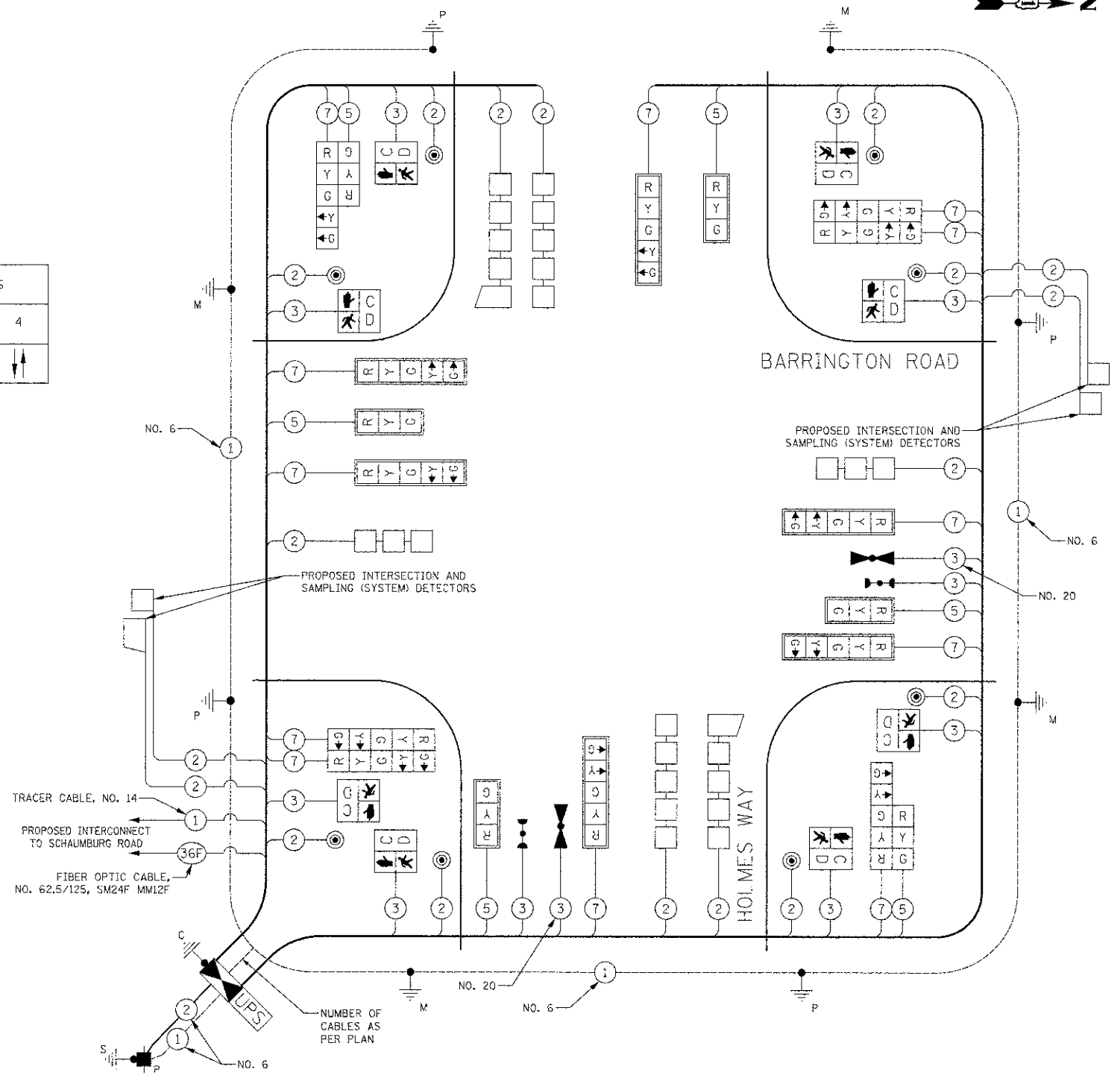


EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←→	↑↓

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	CAL. MO	2
SIGN PANEL - TYPE 1	SQ. FT.	17
SIGN PANEL - TYPE 2	SQ. FT.	20
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	790
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	68
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	37
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	442
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1367
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1728
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1207
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2380
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2557
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	62
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	794
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1062
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* PEDESTRIAN PUSH-BUTTON	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM SENSOR CABLE, NO. 20 3/C	FOOT	305
* UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1

*100% COST TO VILLAGE OF SCHAUMBURG



THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	113
(GREEN)	18		15	0.25	68
ARROW	24		12	0.10	29
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					663

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
CONTACT: MARK GLOECKLE
PHONE: (630) 691-4529
COMPANY: COM ED

FILE NAME = ...\\07_Barrington-Holmes Cable Plan.dgn	USER NAME = cjk	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 8-20-12	REVISED -

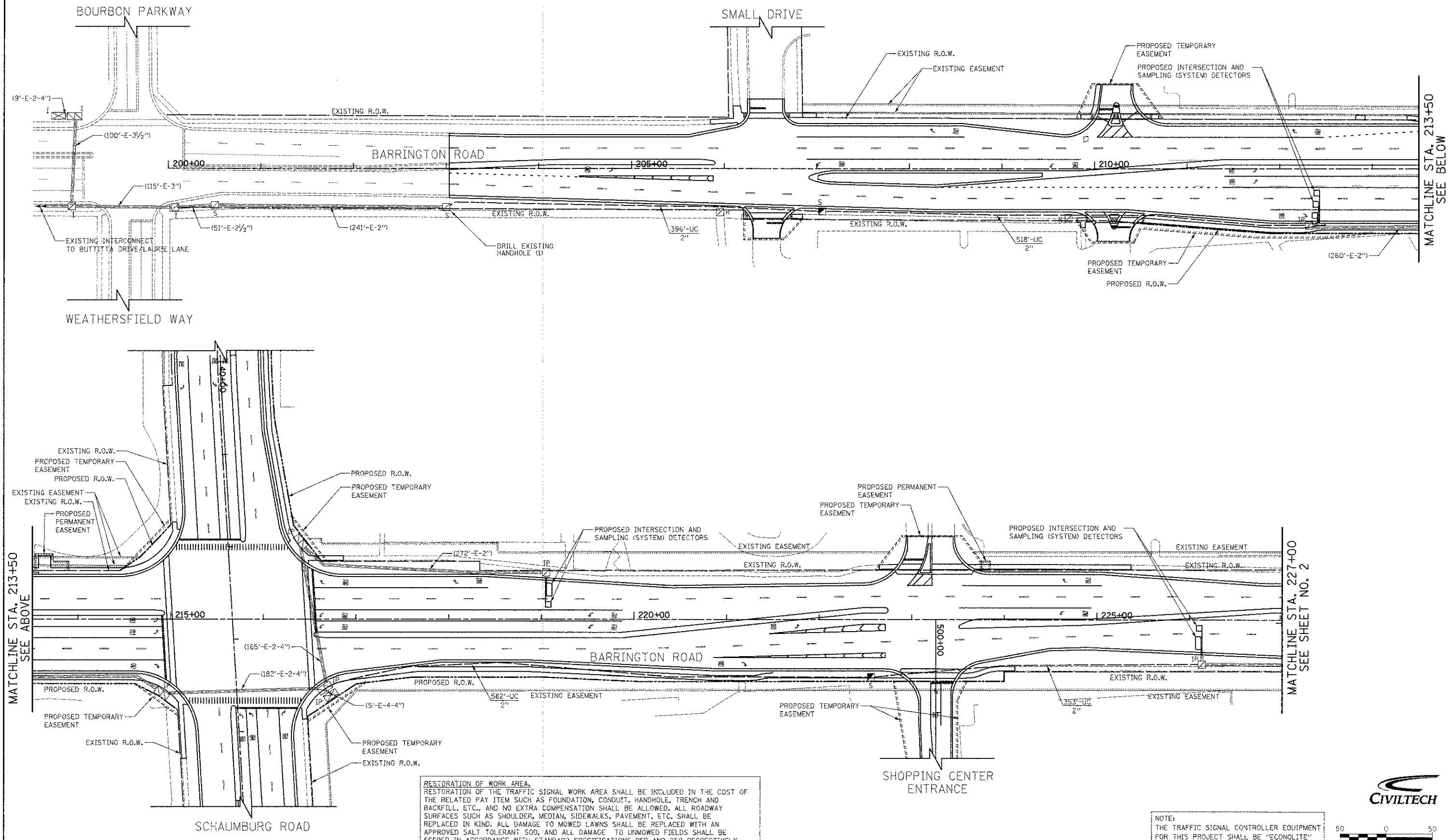
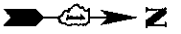
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, SEQUENCE OF OPERATION, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
BARRINGTON ROAD AND HOLMES WAY

F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 133
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63629	



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



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

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



FILE NAME =
 ...\08_Sig Interconnect Plan 1.dgn

USER NAME = d.j.k
 PLOT SCALE = 50.0000' / 1" in.
 PLOT DATE = 8/17/2012

DESIGNED - BRD
 DRAWN - OJT
 CHECKED - JJE
 DATE - 8-20-12

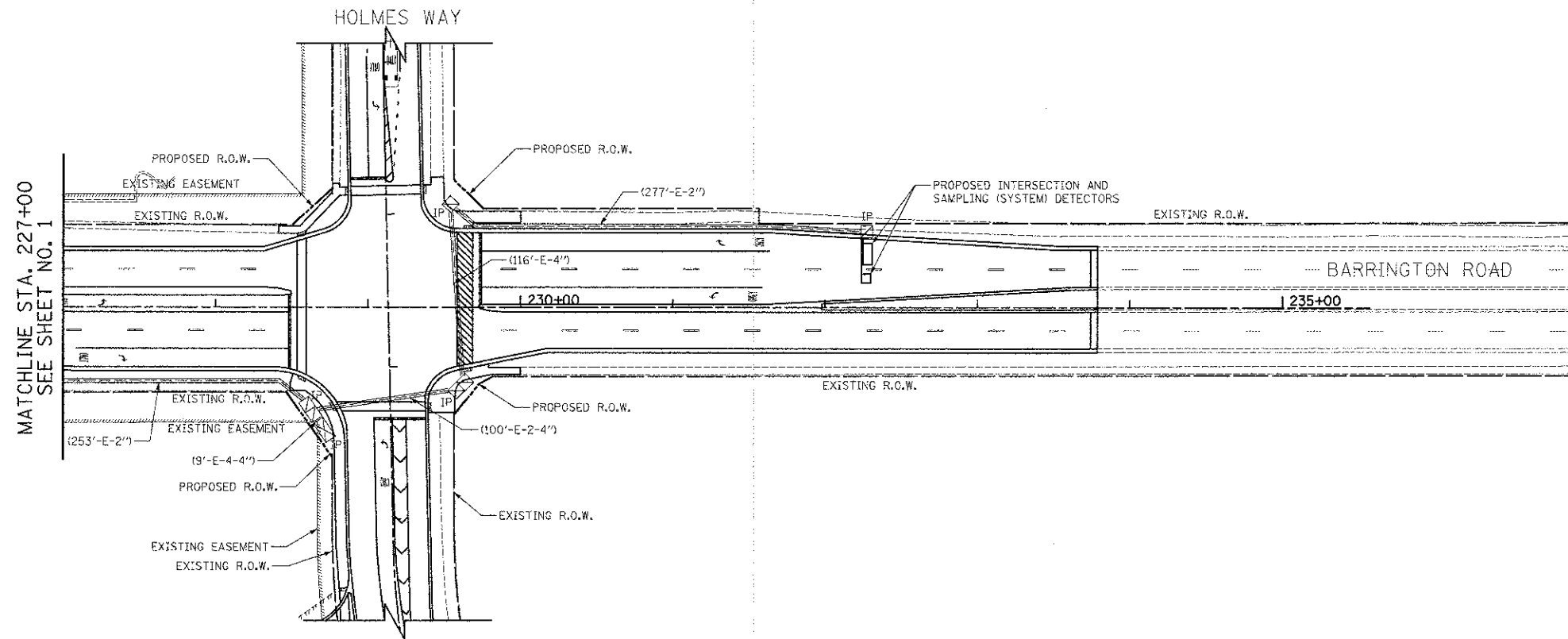
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
 BARRINGTON ROAD
 BOURBON PARKWAY/WEATHERSFIELD WAY TO HOLMES WAY**

SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

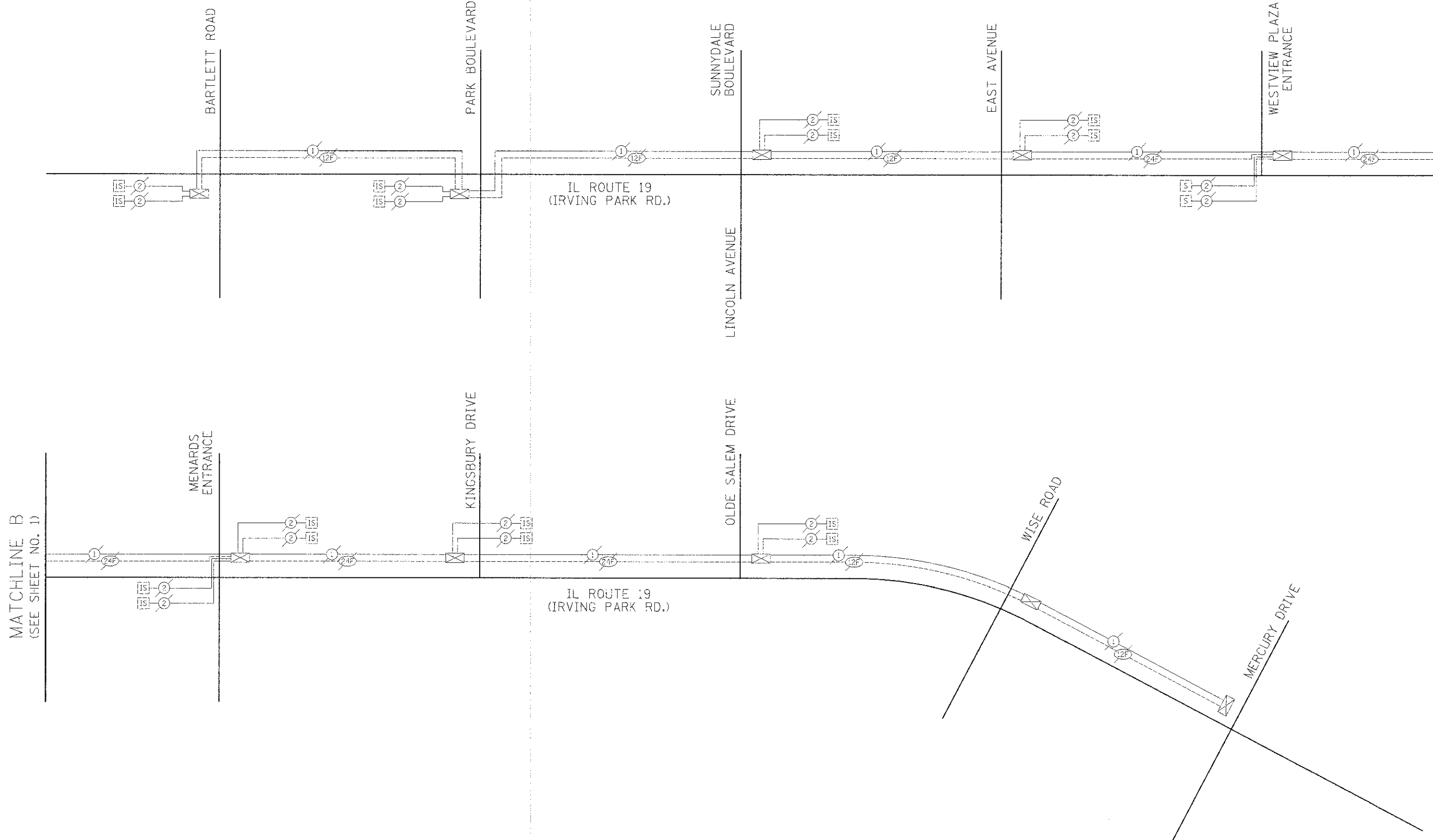
F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 134
CONTRACT NO. 63629			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-8003050	



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



FILE NAME = ... \B9\Sig Interconnect Plan 2.dwg	USER NAME = djk	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN BARRINGTON ROAD BOURBON PARKWAY/WEATHERSFIELD WAY TO HOLMES WAY			F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 135
	PLOT SCALE = 50.0000 / in.	DRAWN - OJT	REVISED -		SCALE: 1" = 50'	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 63629		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMV-8003(051)		
	PLOT DATE = 5/16/2012	CHECKED - JJE	REVISED -									
		DATE - 8-20-12	REVISED -									



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

FILE NAME =
...\\IL-Interconnect-Schematic 2.dgn

USER NAME = djk
PLOT SCALE = 20.0000 / in.
PLOT DATE = 8/16/2012

DESIGNED - BRD
DRAWN - OJT
CHECKED - JJE
DATE - 8-20-12

REVISED -
REVISED -
REVISED -
REVISED -

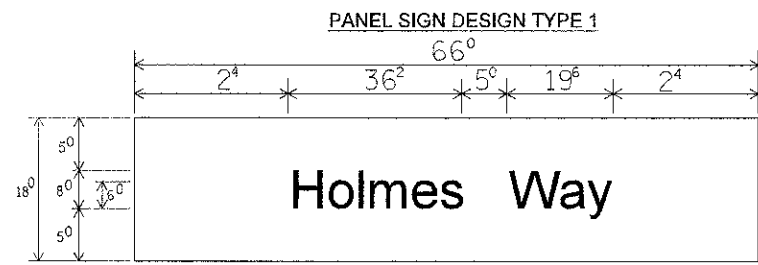
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC
IL ROUTE 19 (IRVING PARK RD.)
BARTLETT ROAD TO MERCURY DRIVE**

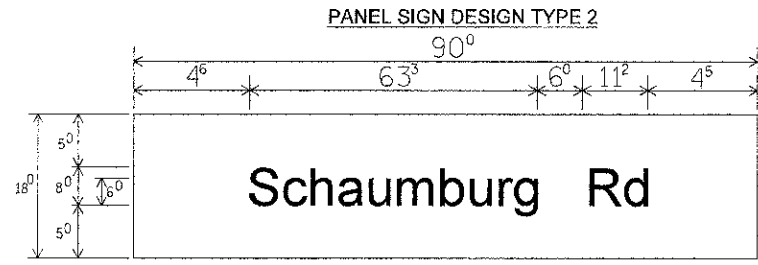
NOT TO SCALE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	137
CONTRACT NO. 63629				

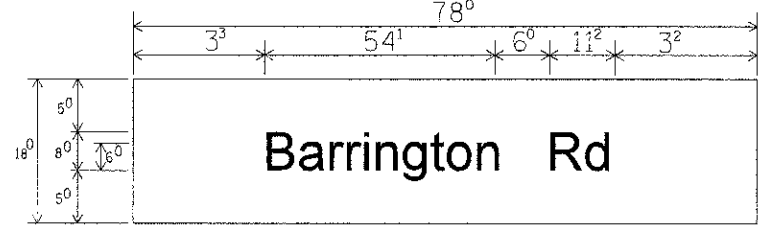
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-33M-8003(051)



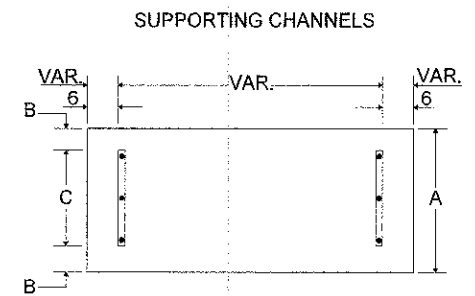
Sq. M Each 8.25 Sq. Ft. Each 2 Required Design Series D



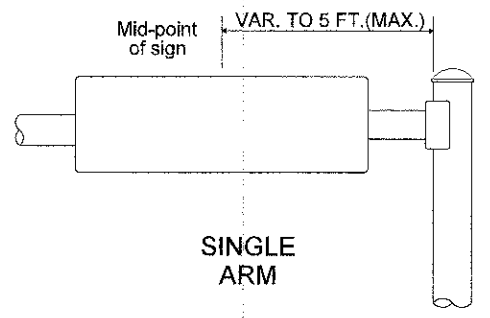
Sq. M Each 11.25 Sq. Ft. Each 2 Required Design Series D



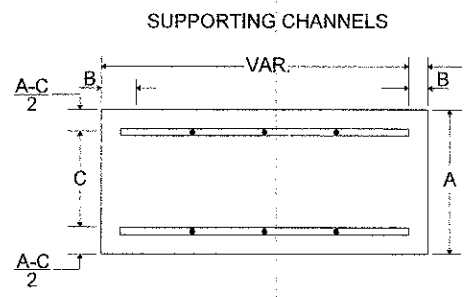
Sq. M Each 9.75 Sq. Ft. Each 4 Required Design Series D



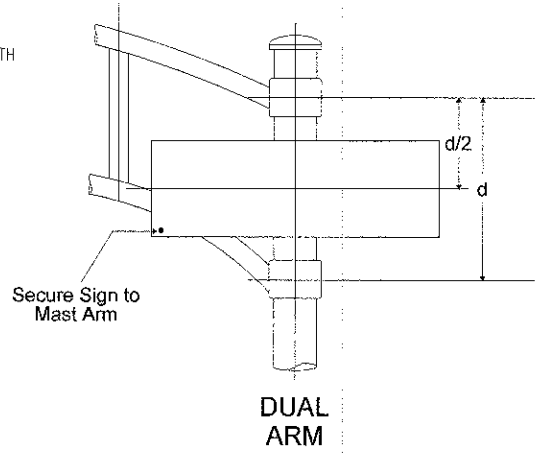
A	B	C
18"	2"	14"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS.

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011, 877012, AS APPLICABLE. PLUS TWO (2) SIGN PANELS 2'-6" X 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR THE STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITIES.
 - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
 - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVER ALL LENGTH SHALL NOT EXCEED 8'0".
 - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
 - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
*J.O. HERBERT CO. MIDLOTHIAN, VA
*WESTERN REMAC INC. WOODRIDGE, IL
- PARTS LISTING:
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H #3
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

UPPER TO LOWER CASE SPACING CHART 8-6 INCH SERIES "C" & "D"

EXAMPLE, 2³ DENOTES 3/8"

SERIES	SECOND LETTER															
	a c d e		b h i k		f w		j		s t		v y		x		z	
	g o q	l m n p	r u													
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	1 ⁰	1 ¹	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ²	1 ⁴
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁶	1 ⁷
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	2 ⁰	2 ¹
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹
K L	1 ¹	1 ²	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
S	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
T	1 ¹	1 ²	1 ⁶	1 ⁷	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
Y	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁵	0 ⁷	0 ⁶	0 ⁶	1 ⁰	1 ¹	1 ²	
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹

LOWER CASE TO LOWER CASE SPACING CHART 6 INCH SERIES "C" & "D"

SERIES	SECOND LETTER															
	a c d e		b h i k		f w		j		s t		v y		x		z	
	g o q	l m n p	r u													
F																
I																
R																
S																
T																
L																
E																
T																
T																
E																
R																

NUMBER TO NUMBER

SPACING CHART 8 INCH SERIES "C" & "D"

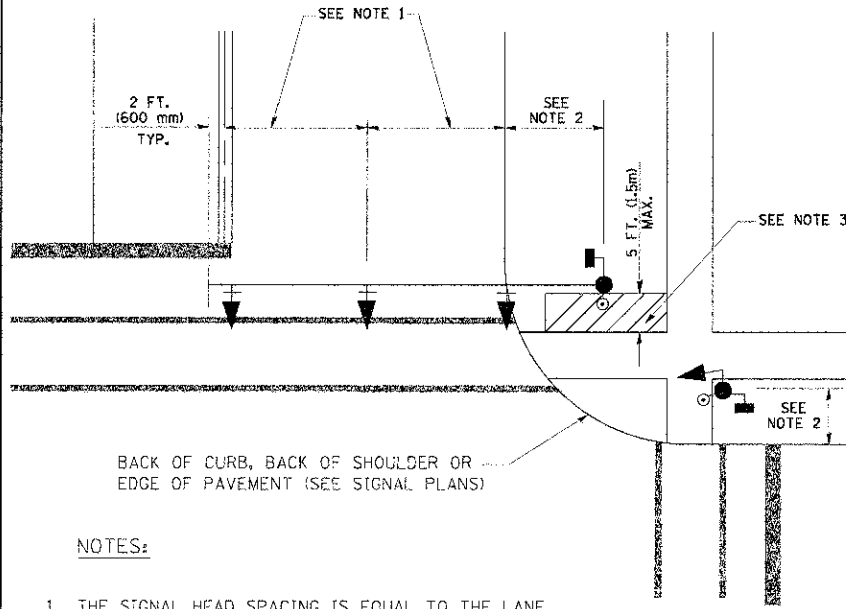
SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷
1	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹
2 3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁶	1 ⁷	1 ⁴	1 ⁵
5	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
6	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
7	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁵	0 ⁵	0 ⁶	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴
8	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁴	1 ⁵

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS			
	SERIES		SERIES		SERIES		SERIES			SERIES		SERIES	
	C	D	C	D	C	D	C	D		C	D	C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²						
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²						
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹						
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²						
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²						
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶						
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²						
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²						
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹						
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²						
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²						
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹						
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰						
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²						
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³						
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²						
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²						
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²						
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²						
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²						
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²						
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷						
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴						
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹						
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³						
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³						

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	2 ²	1 ⁴	1 ⁵	2 ⁰
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ⁰	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

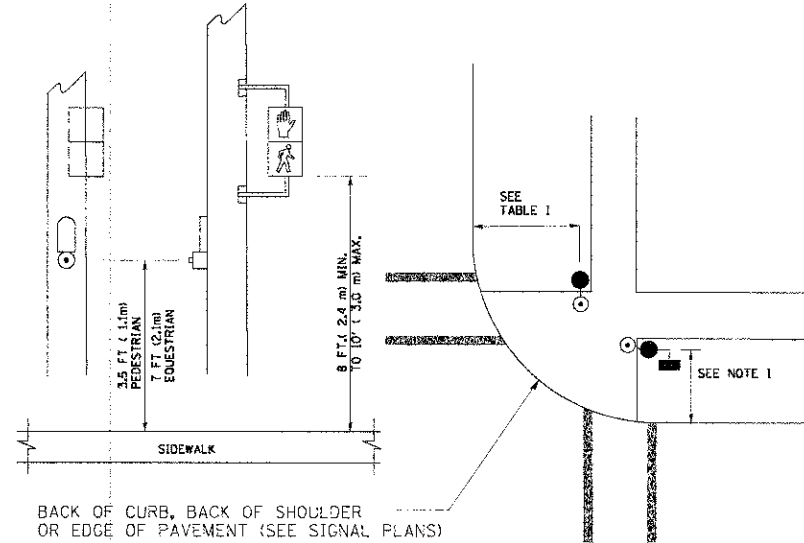
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

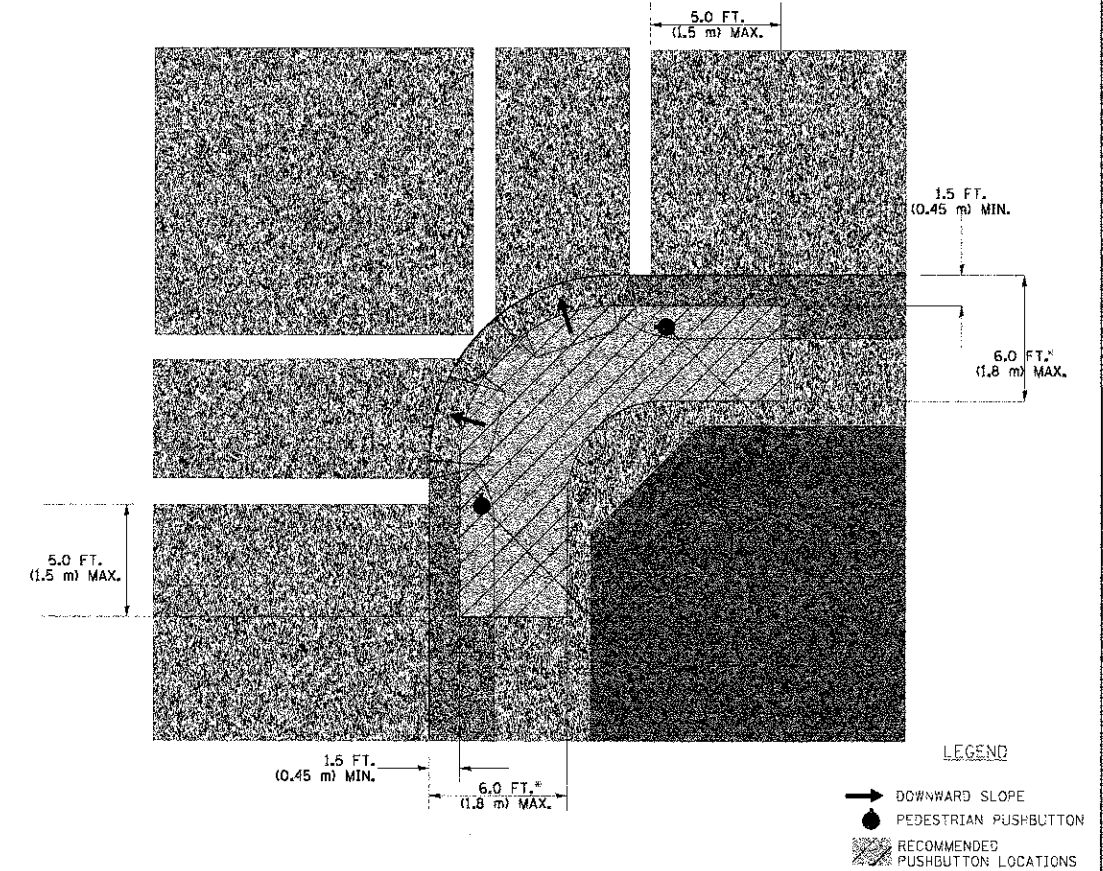
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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:

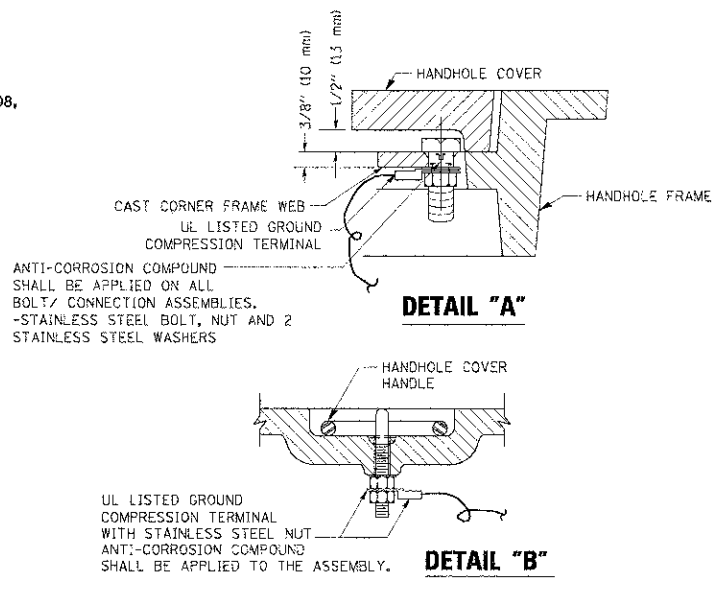
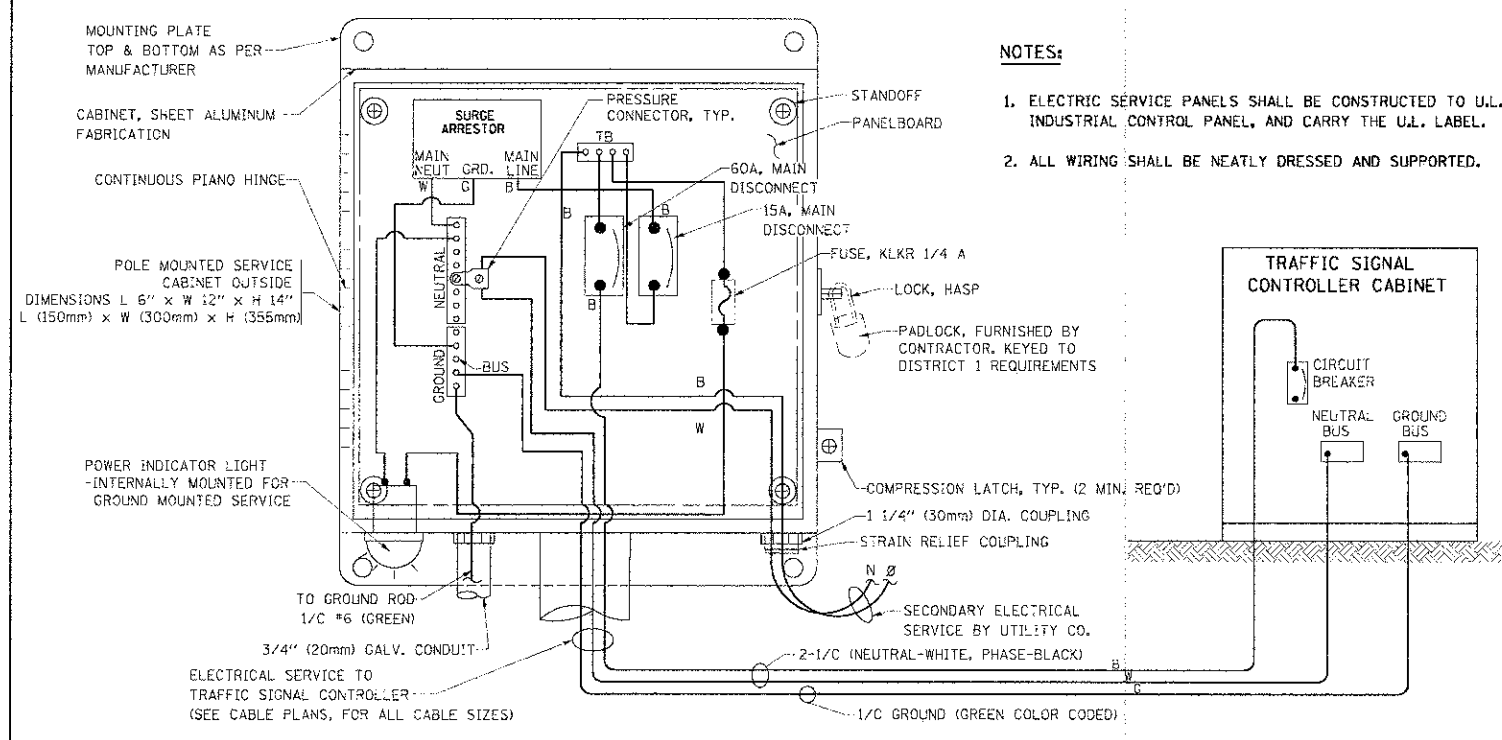
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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.

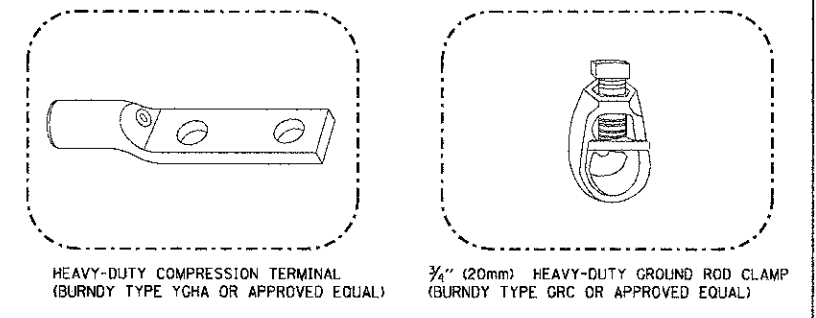
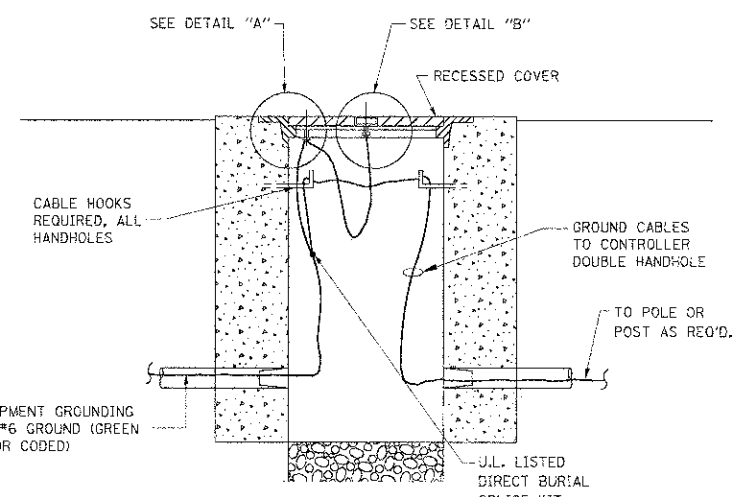
NOTES:

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.

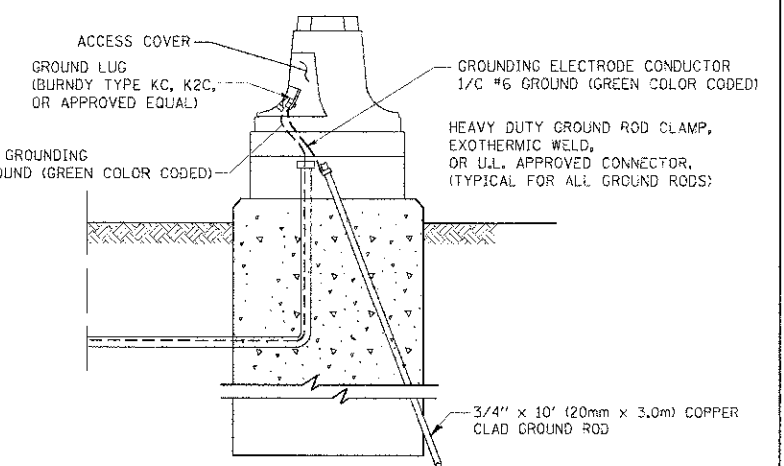
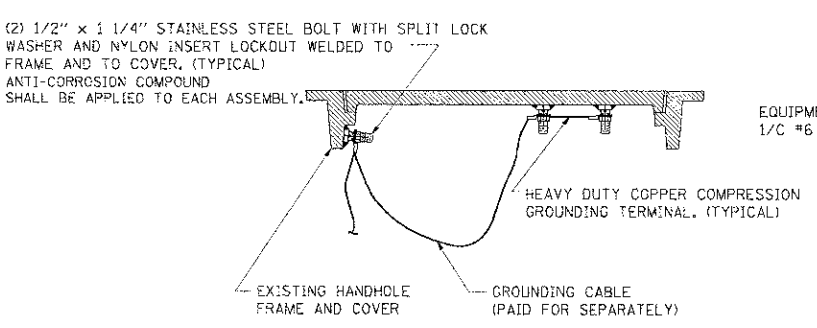
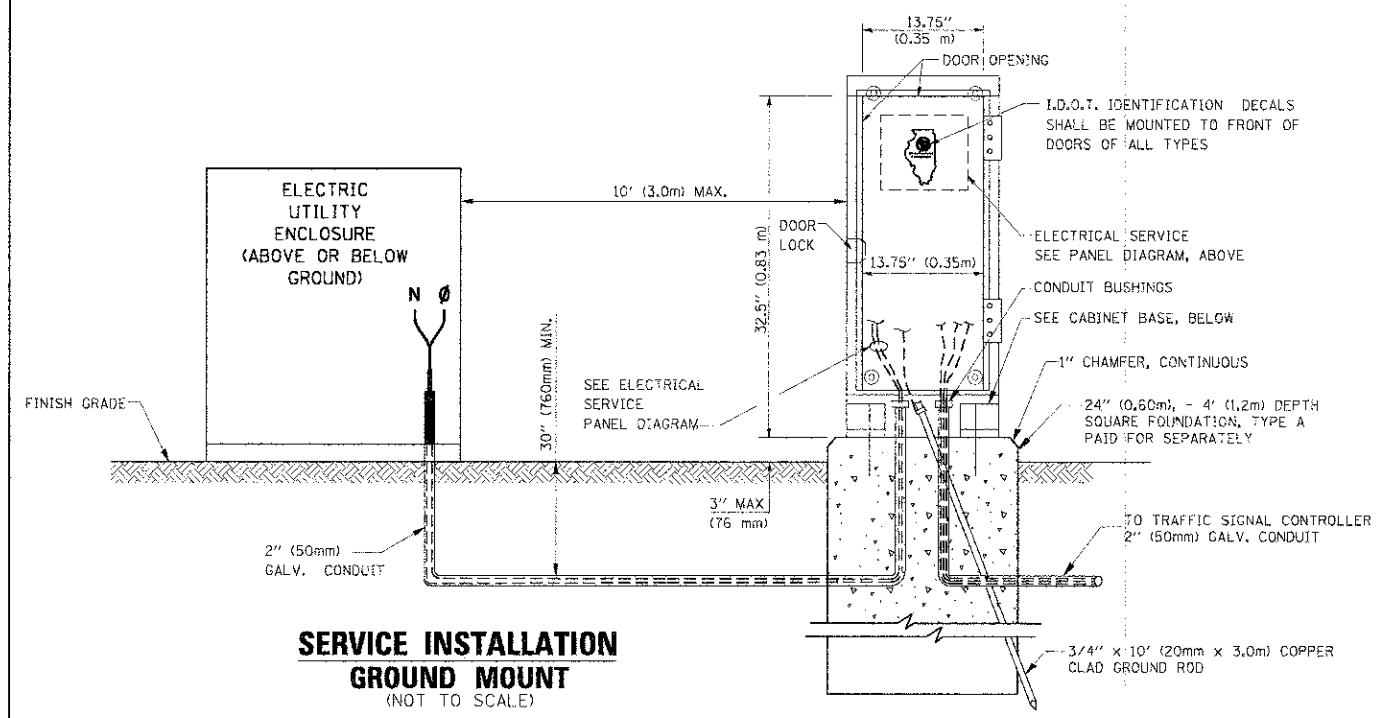


- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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

ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (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)

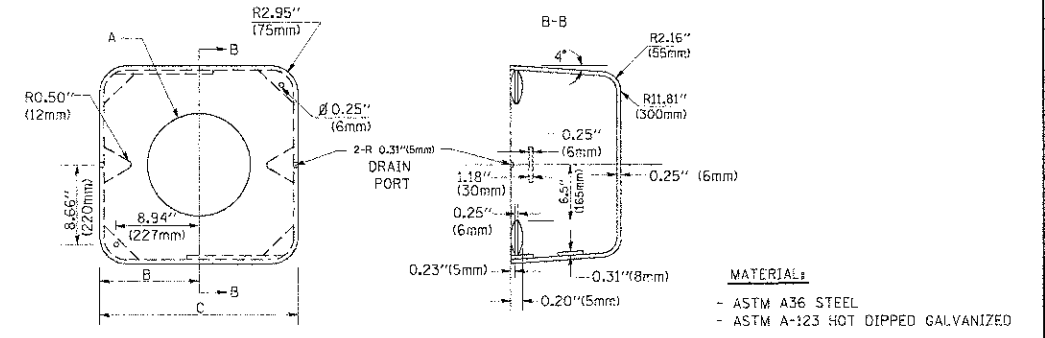
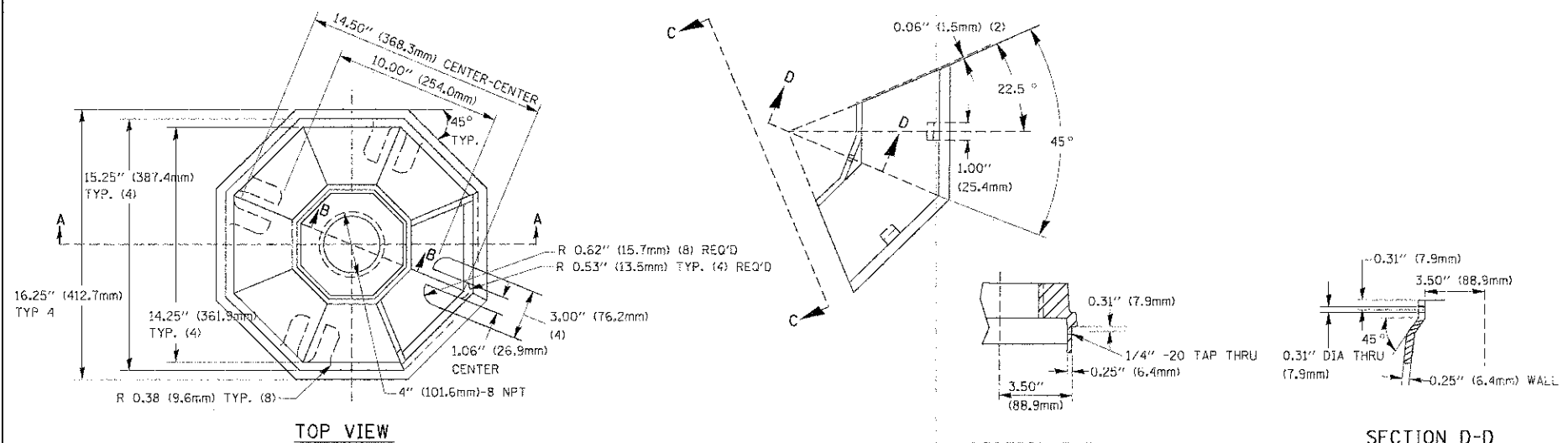
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

FILE NAME: 01-00074-00-CH	USER NAME: kenth@illinois.gov	DESIGNED: DAD	REVISED:
PLT: 01-00074-00-CH	PLT DATE: 10/28/09	DRAWN: BCK	REVISED:
		CHECKED: JAD	REVISED:
		DATE: 10/28/09	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

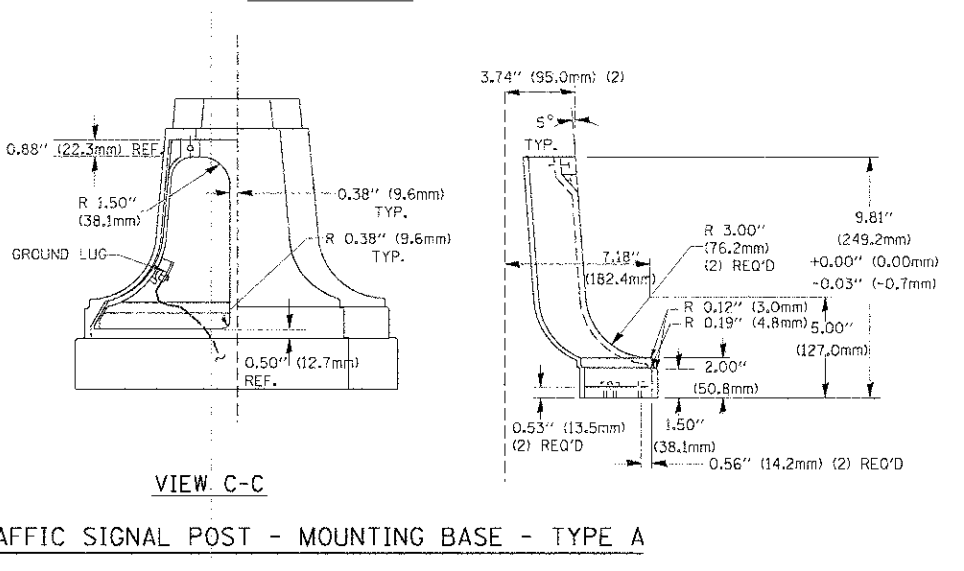
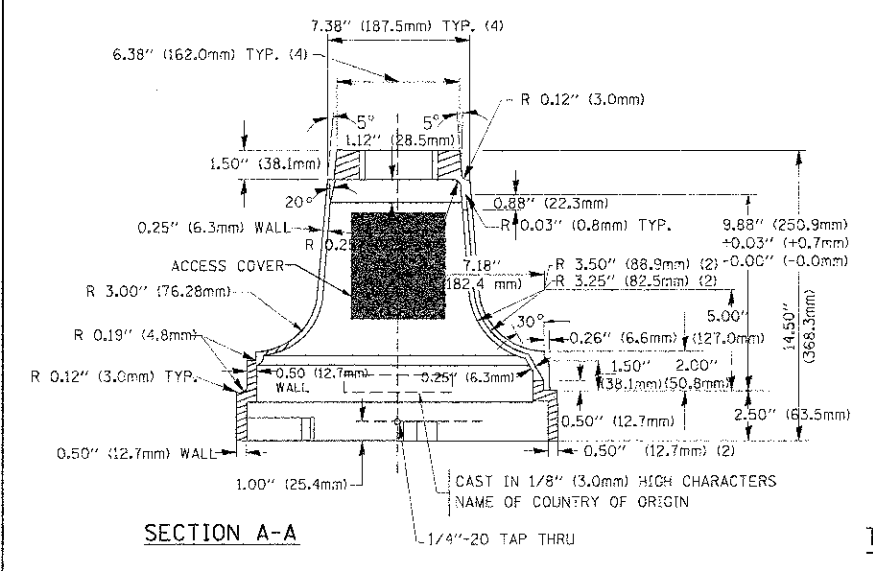
F.A.U. R.T.E.: 1322	SECTION: 01-00074-00-CH	COUNTY: COOK	TOTAL SHEETS: 245	SHEET NO.: 141
CONTRACT NO. 63629			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)	



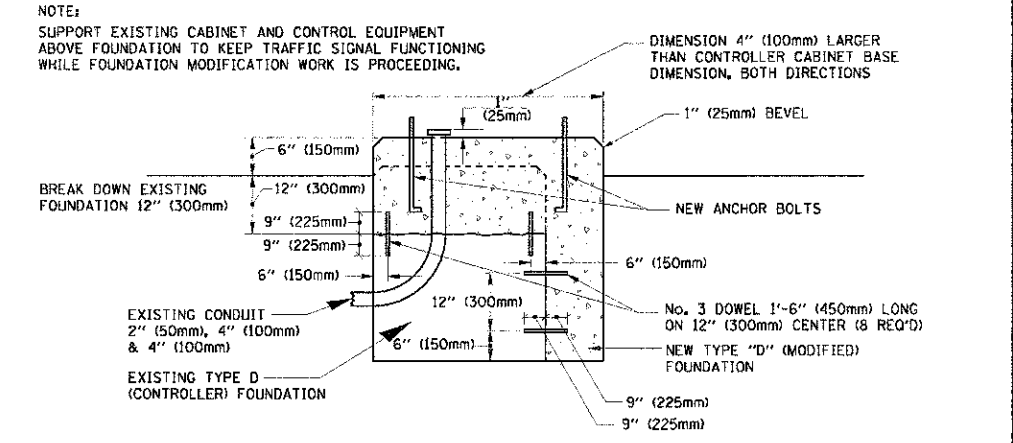
A	B	C	HEIGHT	WEIGHT
VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

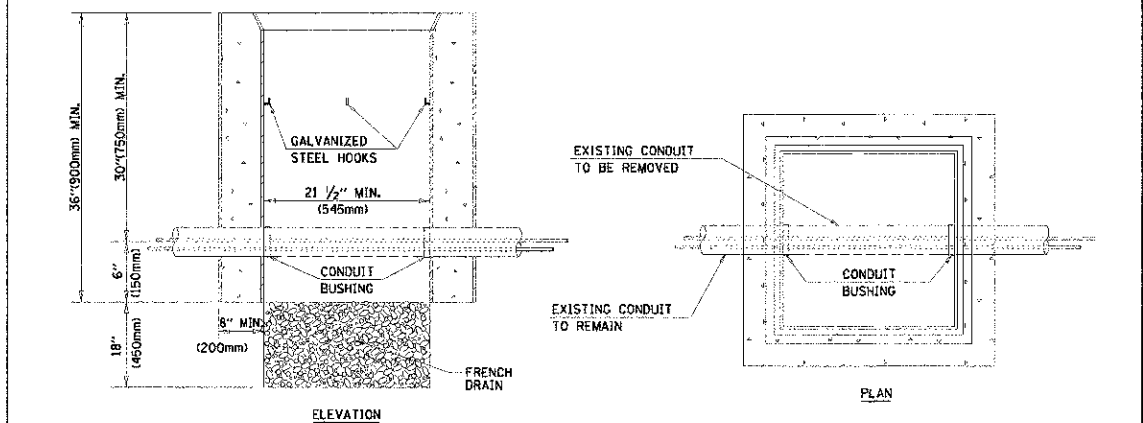
- NOTES:
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
 - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
 - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM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



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

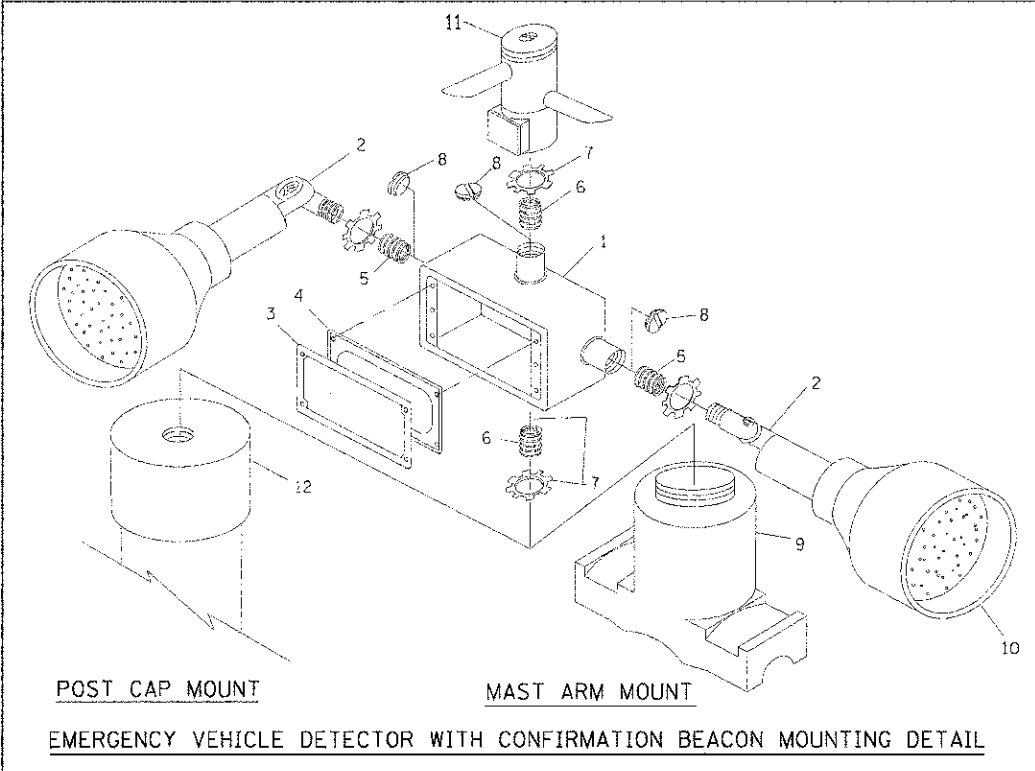


MODIFY EXISTING TYPE "D" FOUNDATION



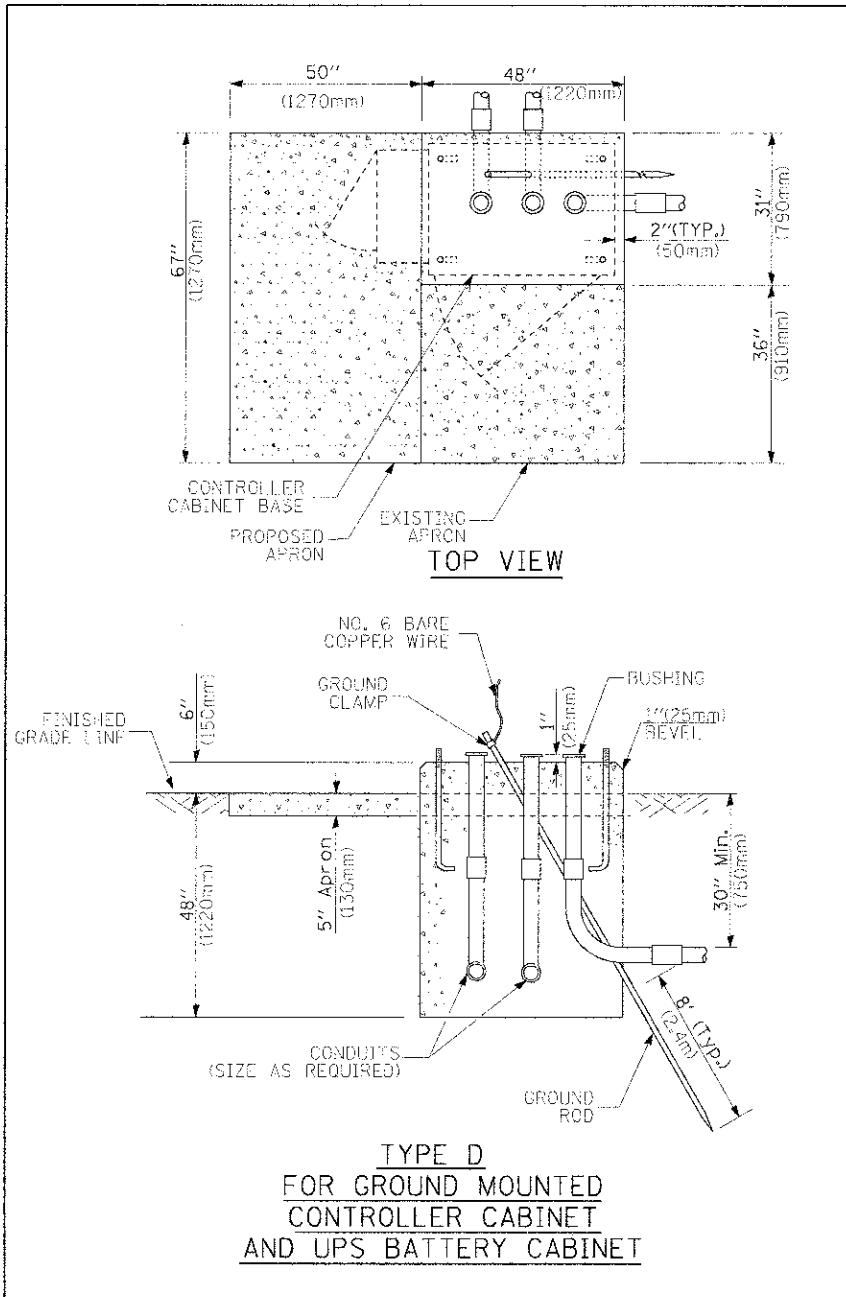
- NOTES:
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

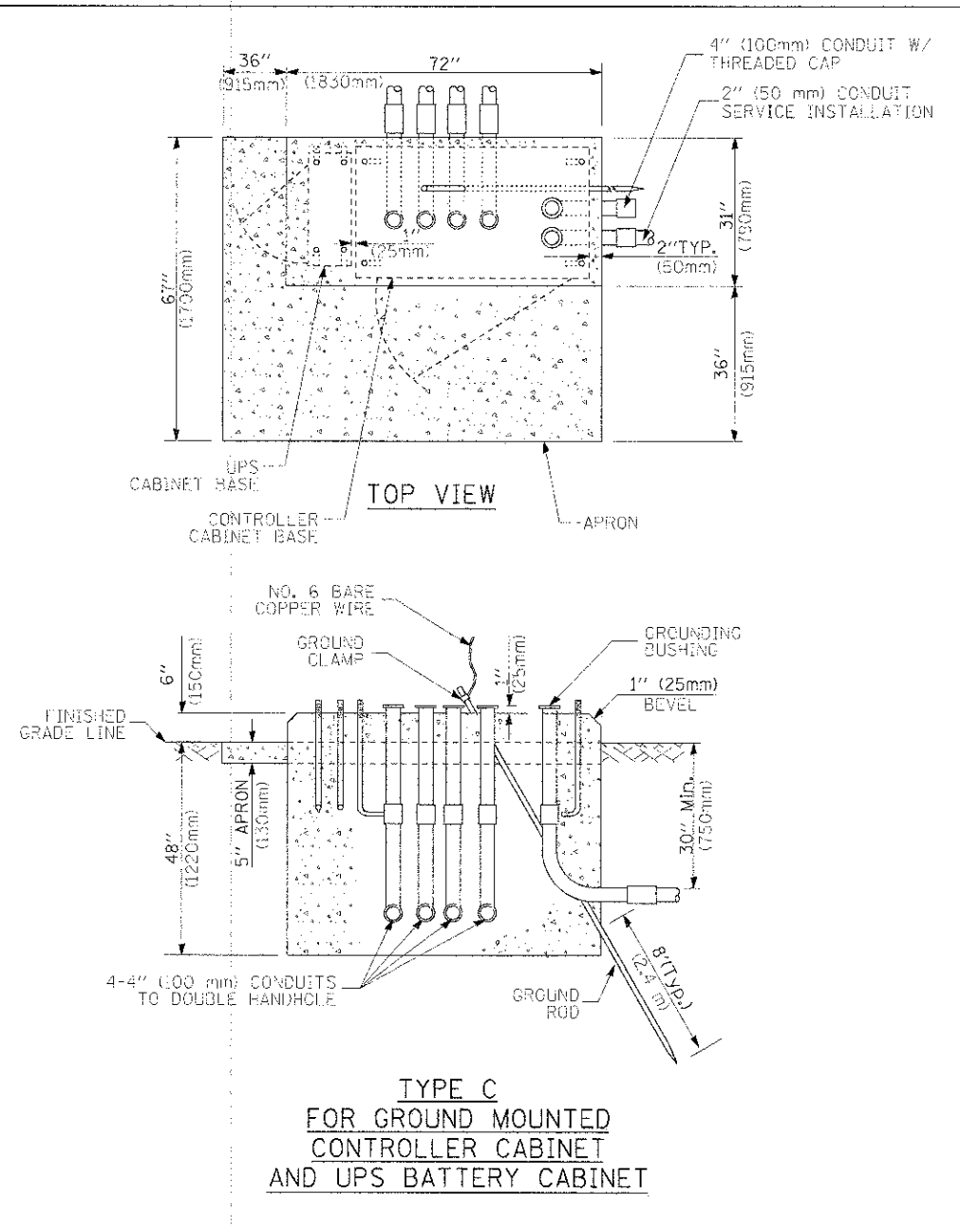


ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

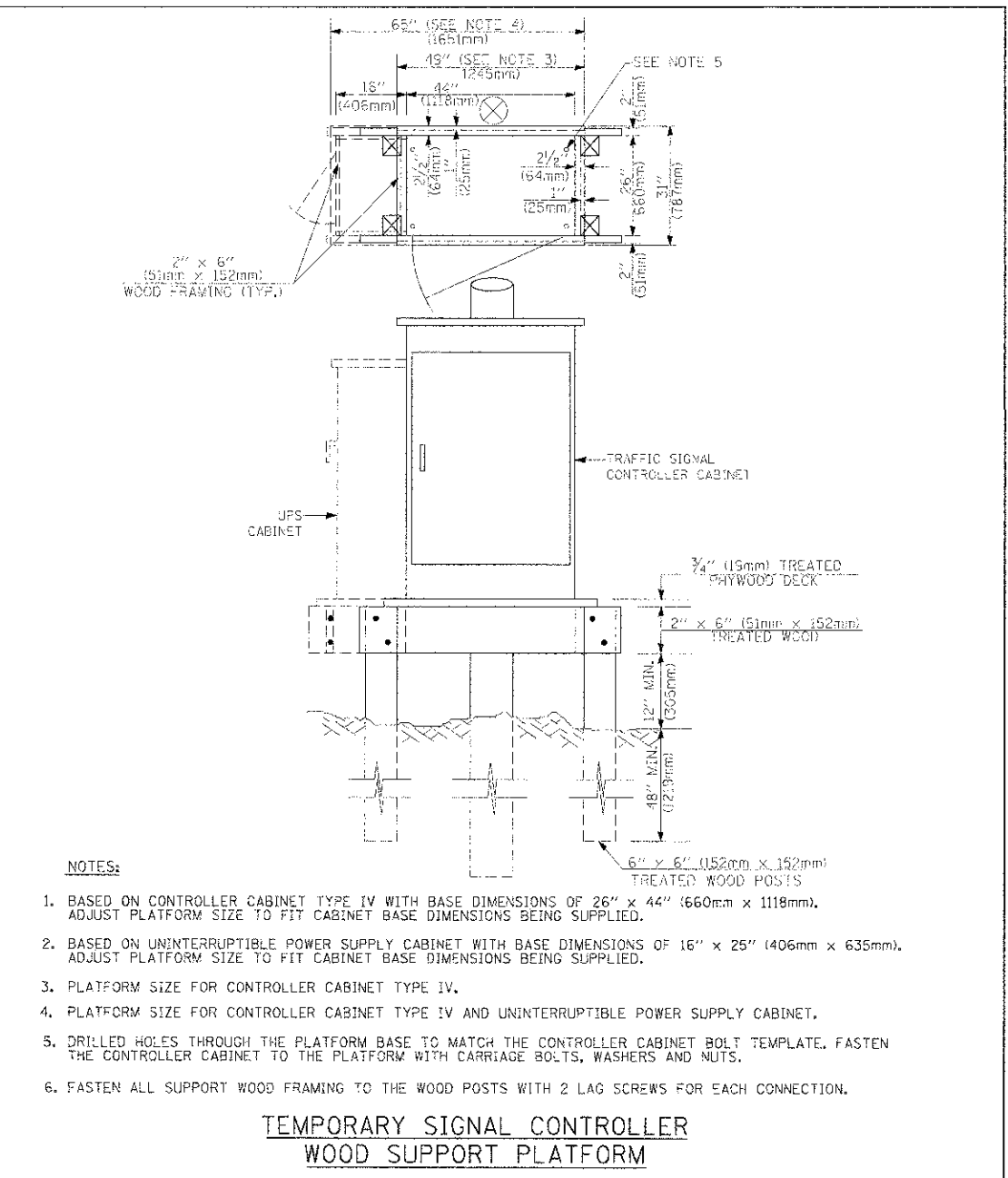
- NOTES:
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED.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



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



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



- 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	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)	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 (OU) > 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

TRAFFIC SIGNAL LEGEND

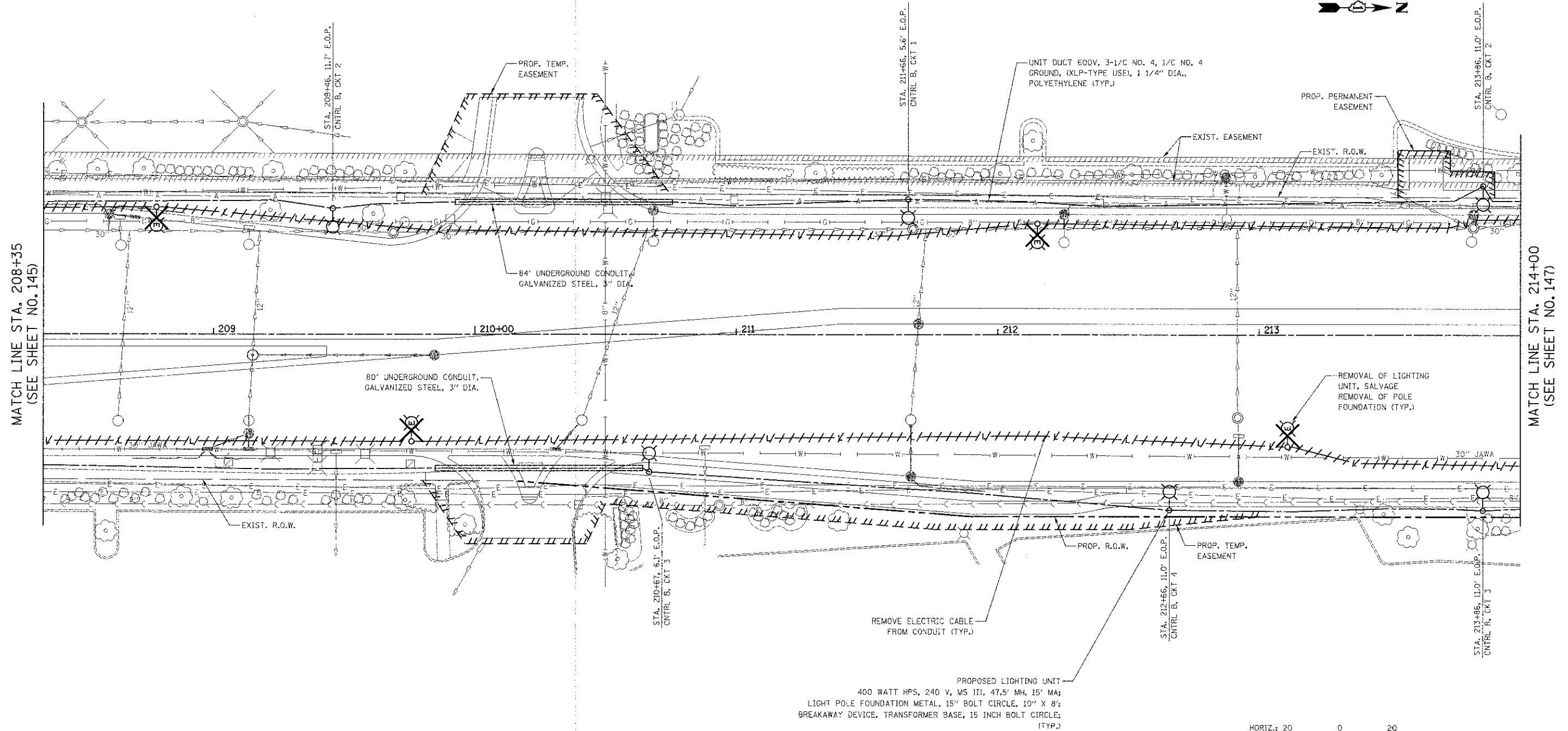
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
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				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) 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)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

RAILROAD SYMBOLS

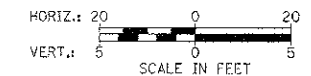
	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	REVIEWED		
	DATE		
	BY		
	DATE		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	REVIEWED		
	DATE		
	BY		
	DATE		



PROPOSED LIGHTING UNIT
 400 WATT HPS, 240 V, MS III, 47.5' MH, 15' MA;
 LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 19" X 8";
 BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE;
 (TYP.)



BARRINGTON ROAD

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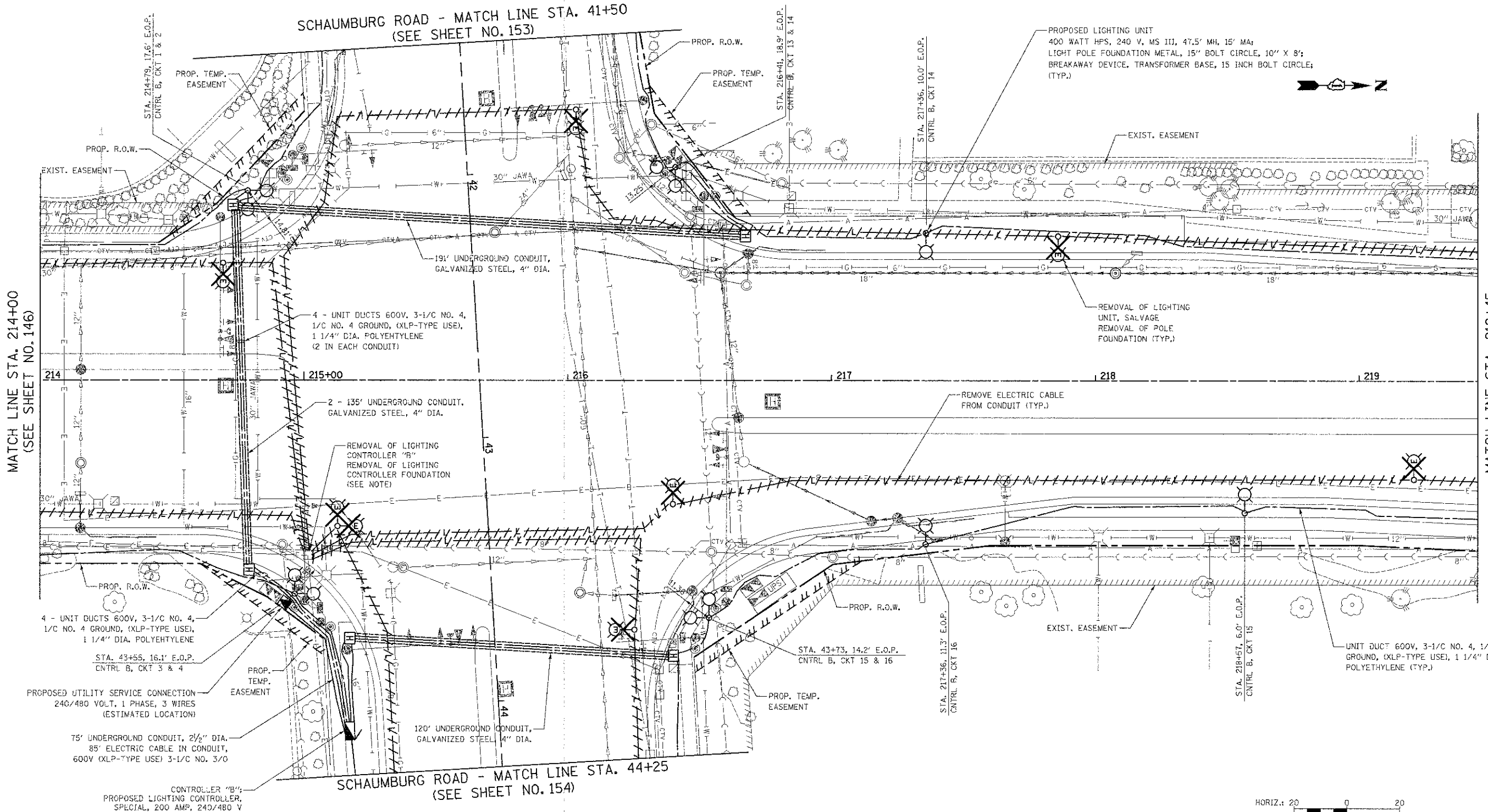
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD
 LIGHTING PLANS
 SCALE: 1" = 20'
 SHEET NO. 2 OF 12 SHEETS
 STA. 208+35 TO STA. 214+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
1322	01-00074-00-CH	COOK	245 146
CONTRACT NO. 63629			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-800305D			

NOTE:
EXISTING CONTROLLER "B" SHALL REMAIN OPERATIONAL UNTIL THE TEMPORARY LIGHTING SYSTEM IS IN PLACE AND IS OPERATIONAL.



BARRINGTON ROAD

DATE	
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PLAN	
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DATE	
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PROFILE	
NO.	

FILE NAME
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PLOT DATE = 8/16/2012

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DATE - 8-20-12

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REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD
LIGHTING PLANS

SCALE: 1" = 20' SHEET NO. 3 OF 12 SHEETS STA. 214+00 TO STA. 219+45

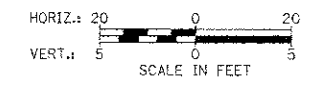
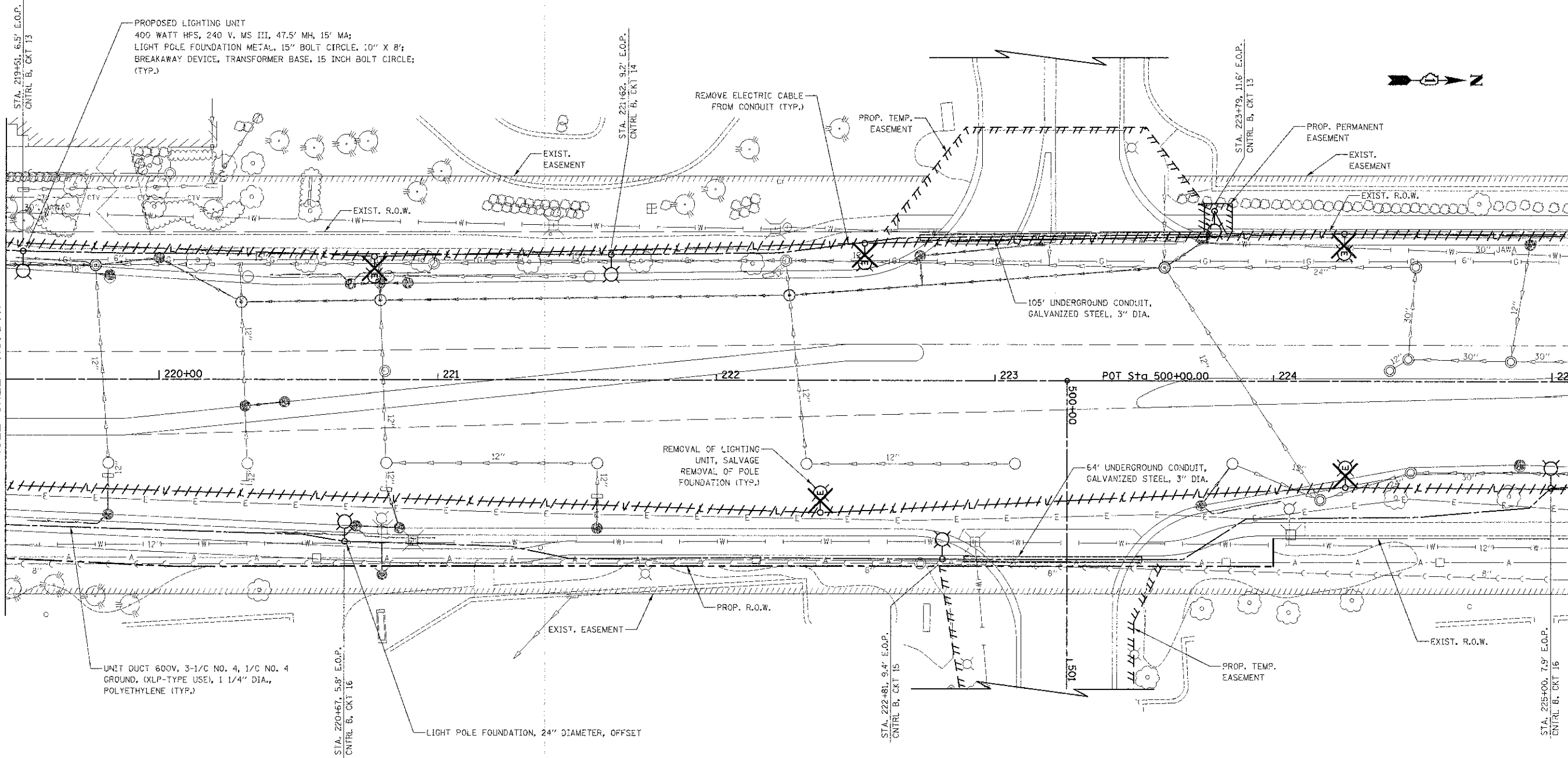
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-9003050				

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NO.	INT. OF WAY DECISION		
	FILE NAME		

PROF. FILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	INT. OF WAY DECISION		
	FILE NAME		

MATCH LINE STA. 219+45
(SEE SHEET NO. 147)

MATCH LINE STA. 225+10
(SEE SHEET NO. 149)



BARRINGTON ROAD

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 PLOT DATE = 8/16/2012

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

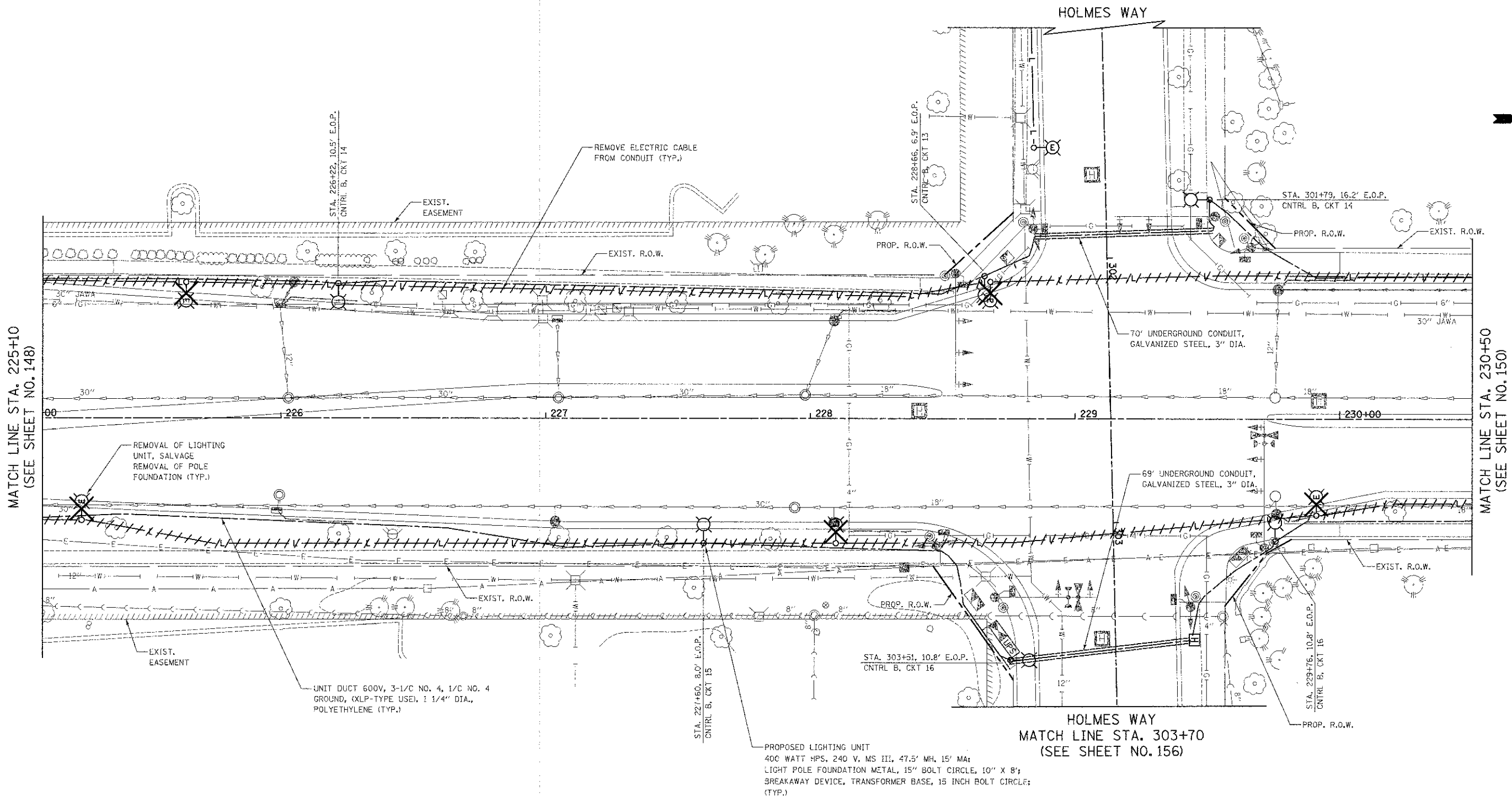
BARRINGTON ROAD
 LIGHTING PLANS

SCALE: 1" = 20' SHEET NO. 4 OF 12 SHEETS STA. 219+45 TO STA. 225+10

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
1322	01-00074-00-CH	COOK	245 / 148
CONTRACT NO. 63629			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-800305D			

DATE	BY
APPROVED	BY
PROJECT	BY
NOTE BOOK	BY
NO.	BY
FILE NAME	BY

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PROJECT	BY
NOTE BOOK	BY
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FILE NAME	BY



BARRINGTON ROAD

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PLOT SCALE = 20.0000' / 1\"/>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

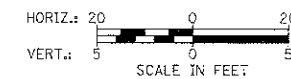
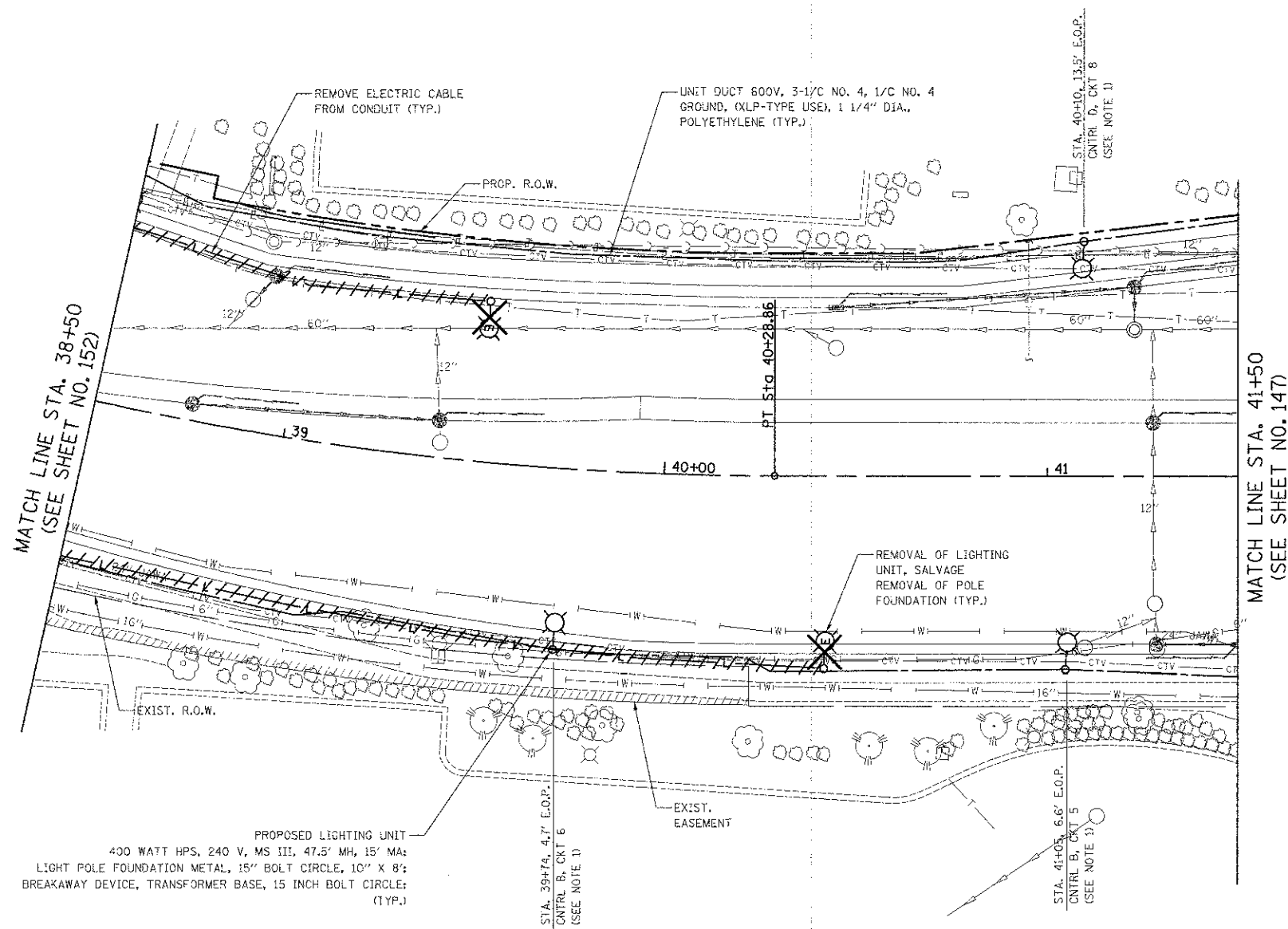
**BARRINGTON ROAD
LIGHTING PLANS**

SCALE: 1" = 20' SHEET NO. 5 OF 12 SHEETS STA. 225+10 TO STA. 230+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	149
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-CMM-60031053				

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	FILE NAME		

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SCHAUMBURG ROAD

- NOTE:
1. THE LIGHT POLE, MAST ARM AND LUMINAIRE SHALL BE POWDER COATED BLACK FINISH.

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 PLOT DATE = 8/16/2012

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

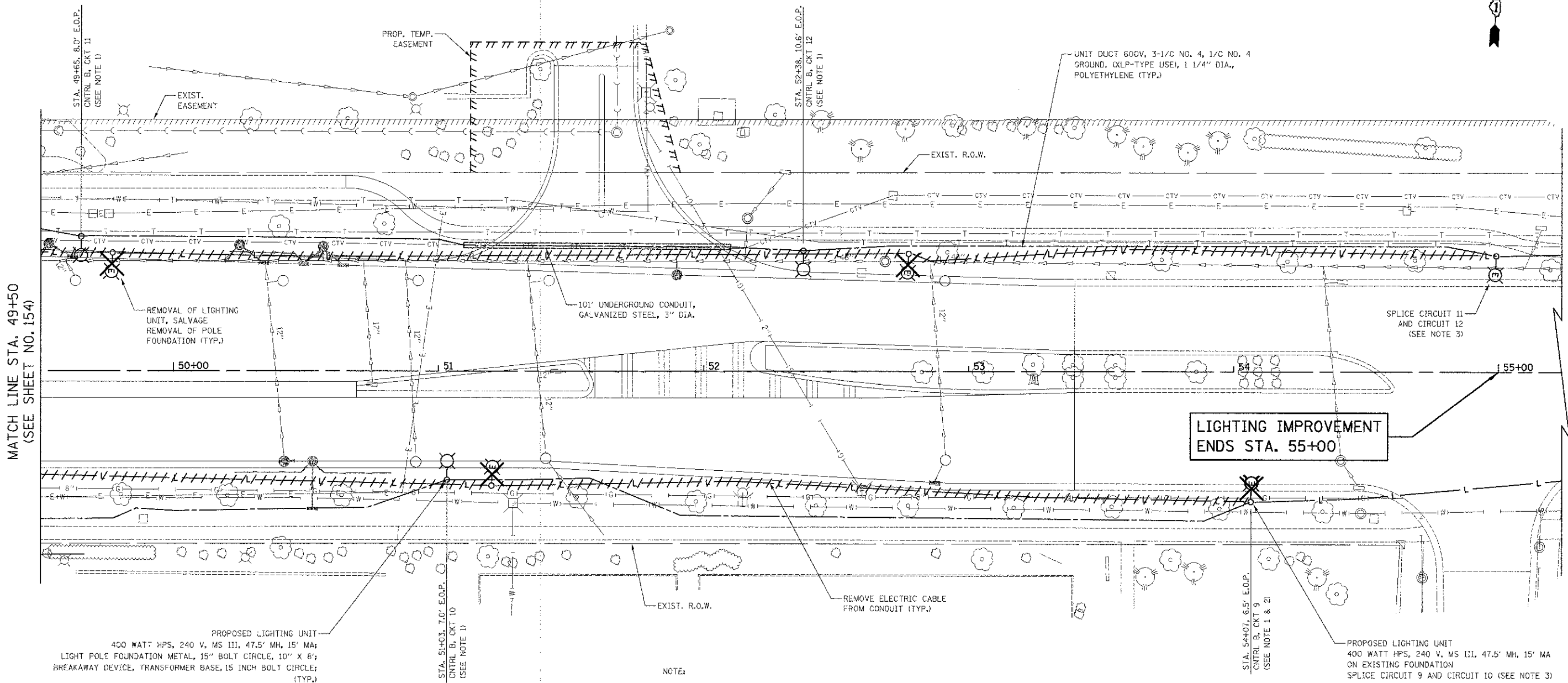
SCHAUMBURG ROAD
 LIGHTING PLANS

SCALE: 1" = 20' SHEET NO. 9 OF 12 SHEETS STA. 38+50 TO STA. 41+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	153
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-800305D				

PLAN	DATE
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DATE	
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FILE NAME	

PROFILE	DATE
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DATE	
NO.	
FILE NAME	



MATCH LINE STA. 49+50
(SEE SHEET NO. 154)

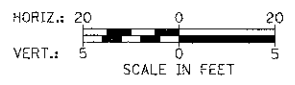
LIGHTING IMPROVEMENT
ENDS STA. 55+00

PROPOSED LIGHTING UNIT
400 WATT HPS, 240 V, MS III, 47.5' MH, 15' MA;
LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8";
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE;
(TYP.)

PROPOSED LIGHTING UNIT
400 WATT HPS, 240 V, MS III, 47.5' MH, 15' MA
ON EXISTING FOUNDATION
SPlice CIRCUIT 9 AND CIRCUIT 10 (SEE NOTE 3)

NOTE:

1. THE LIGHT POLE, MAST ARM AND LUMINAIRE SHALL BE POWDER COATED BLACK FINISH.
2. EXISTING LIGHT POLE AT STATION 54+07 SHALL BE MAINTAINED AND REMAIN OPERATIONAL DURING CONSTRUCTION. AFTER THE TURN OVER OF THE TEMPORARY LIGHTING SYSTEM TO THE PROPOSED PERMANENT SYSTEM, THE EXISTING LIGHT POLE WILL BE REMOVED AND A PROPOSED LIGHTING UNIT WILL BE INSTALLED ON THE EXISTING FOUNDATION. THIS WORK SHALL INCLUDE SPlicing PROPOSED AND EXISTING CIRCUITS AND SHALL BE COMPLETED ON THE SAME DAY. ALL LIGHTING SHALL BE OPERATIONAL THAT SAME EVENING WITHOUT ANY INTERRUPTION.
3. WHEN SPlicing TO EXISTING POLE, ANY AND ALL WORK REQUIRED TO RUN THE PROPOSED UNIT DUCT INTO EXISTING FOUNDATION SLEEVE AND SPlicing IN EXISTING POLE SHALL BE COVERED AND INCLUDED IN THE PAY ITEM FOR THE UNIT DUCT.



SCHAUMBURG ROAD

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PLOT DATE = 8/16/2012

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

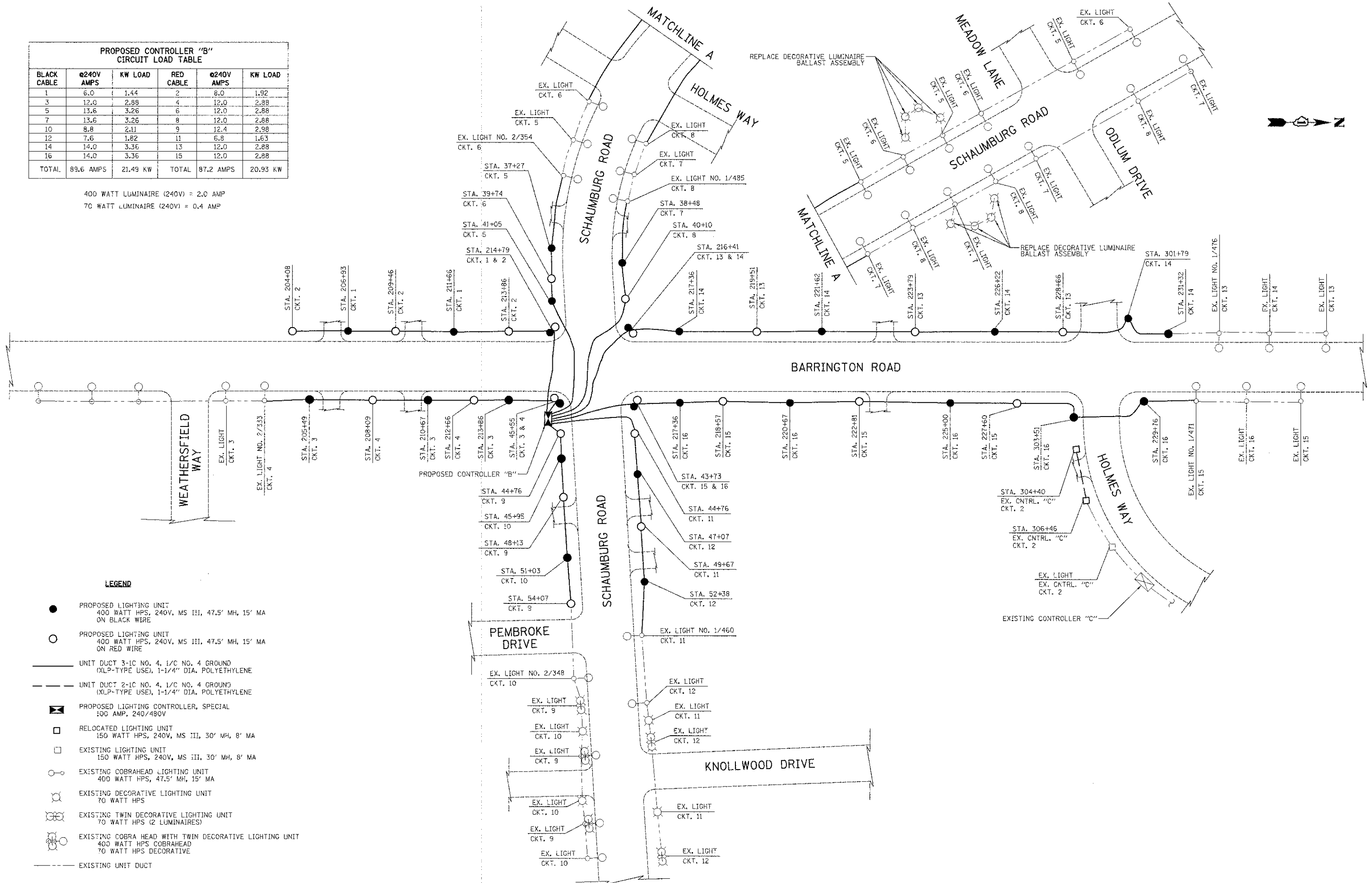
SCHAUMBURG ROAD
LIGHTING PLANS

SCALE: 1" = 20' SHEET NO. 11 OF 12 SHEETS STA. 49+50 TO STA. 55+00

F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-06074-00-CH	COOK	245	155
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS' FED. AID PROJECT M-CMM-8003050				

PROPOSED CONTROLLER "B" CIRCUIT LOAD TABLE					
BLACK CABLE	Ø240V AMPS	KW LOAD	RED CABLE	Ø240V AMPS	KW LOAD
1	6.0	1.44	2	8.0	1.92
3	12.0	2.88	4	12.0	2.88
5	13.6	3.26	6	12.0	2.88
7	13.6	3.26	8	12.0	2.88
10	8.8	2.11	9	12.4	2.98
12	7.6	1.82	11	6.8	1.63
14	14.0	3.36	13	12.0	2.88
16	14.0	3.36	15	12.0	2.88
TOTAL	89.6 AMPS	21.49 KW	TOTAL	87.2 AMPS	20.93 KW

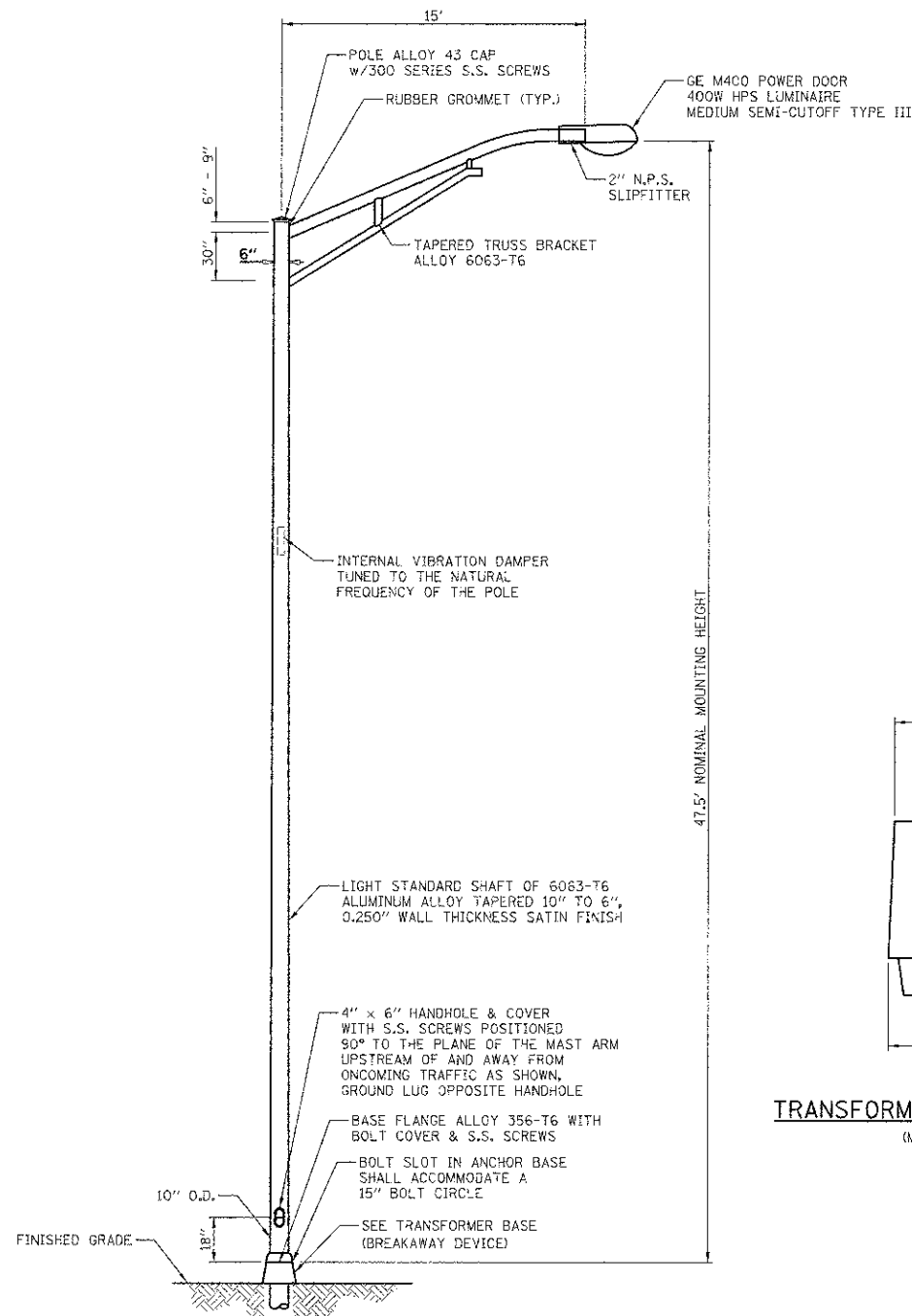
400 WATT LUMINAIRE (240V) = 2.0 AMP
70 WATT LUMINAIRE (240V) = 0.4 AMP



- LEGEND**
- PROPOSED LIGHTING UNIT
400 WATT HPS, 240V, MS III, 47.5' MH, 15' MA ON BLACK WIRE
 - PROPOSED LIGHTING UNIT
400 WATT HPS, 240V, MS III, 47.5' MH, 15' MA ON RED WIRE
 - UNIT DUCT 3-1C NO. 4, 1/C NO. 4 GROUND (XLP-TYPE USE), 1-1/4" DIA. POLYETHYLENE
 - - - UNIT DUCT 2-1C NO. 4, 1/C NO. 4 GROUND (XLP-TYPE USE), 1-1/4" DIA. POLYETHYLENE
 - ☒ PROPOSED LIGHTING CONTROLLER, SPECIAL 300 AMP, 240/480V
 - RELOCATED LIGHTING UNIT
150 WATT HPS, 240V, MS III, 30' MH, 8' MA
 - EXISTING LIGHTING UNIT
150 WATT HPS, 240V, MS III, 30' MH, 8' MA
 - EXISTING COBRAHEAD LIGHTING UNIT
400 WATT HPS, 47.5' MH, 15' MA
 - ⊗ EXISTING DECORATIVE LIGHTING UNIT
70 WATT HPS
 - ⊗ EXISTING TWIN DECORATIVE LIGHTING UNIT
70 WATT HPS (2 LUMINAIRES)
 - ⊗ EXISTING COBRA HEAD WITH TWIN DECORATIVE LIGHTING UNIT
400 WATT HPS COBRAHEAD
70 WATT HPS DECORATIVE
 - - - EXISTING UNIT DUCT

DATE	
BY	
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR PERMITS
2	ISSUED FOR CONSTRUCTION
3	ISSUED FOR AS-BUILT
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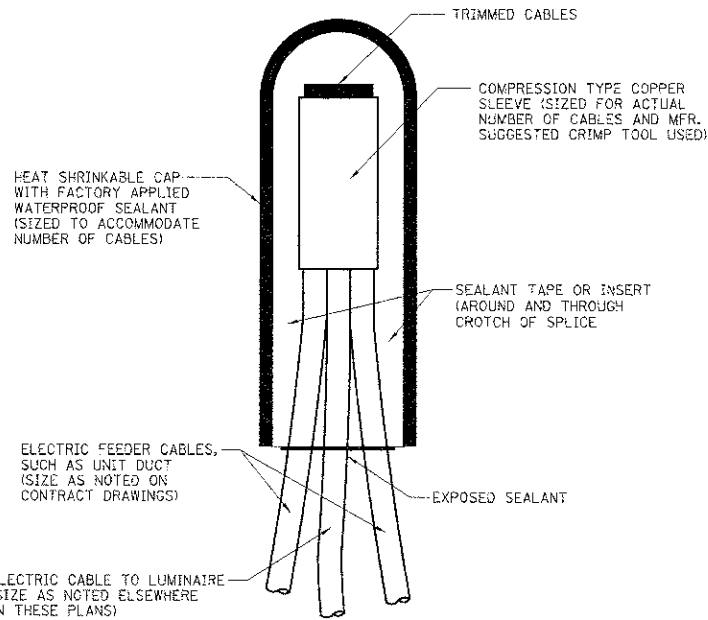
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8	ISSUED FOR PROJECT ARCHIVE
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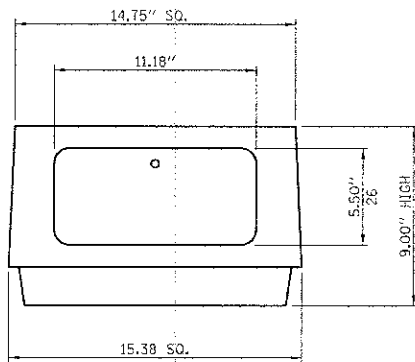
NOTES:

- HEAT TREATMENT SHALL BE APPLIED AFTER WELDING.
- DESIGN SHALL CONFORM WITH THE FIFTH EDITION 2009 WITH 2010 AND 2011 INTERIM REVISIONS OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS FOR 90 MPH WIND LOADINGS WITH A 1.3 GUST LOAD FACTOR.
- POLES AND ARMS SHALL BE BUILT TO TOLERANCES THAT WILL ALLOW CONSISTENT INTERCHANGIBILITY TO FACILITATE REPLACEMENT OF ARMS AND POLES.
- A DECAL COMPLYING WITH THE ANSI STANDARD SHALL BE PERMANENTLY ATTACHED TO THE LUMINAIRE AT THE FACTORY. THE DECK SHALL ALLOW A VIEWER AT GROUND LEVEL TO IDENTIFY THE WATTAGE AND LUMINAIRE PHOTOMETRIC DISTRIBUTION.

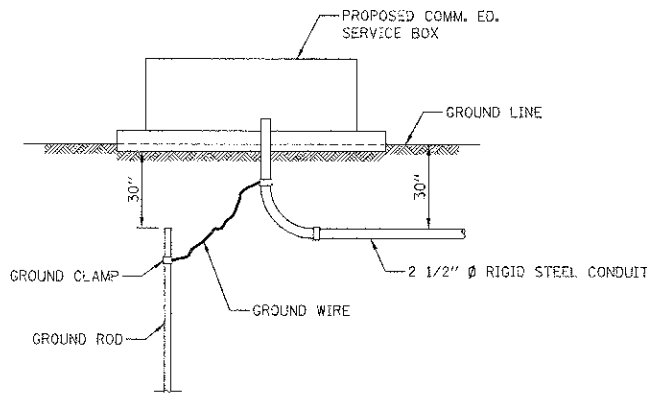
LIGHTING UNIT
(NOT TO SCALE)



NOTE: NUMBER OF CABLES IN SPLICE MAY VARY
SPLICING ELECTRIC CABLES
BASIC MATERIALS AND METHODS

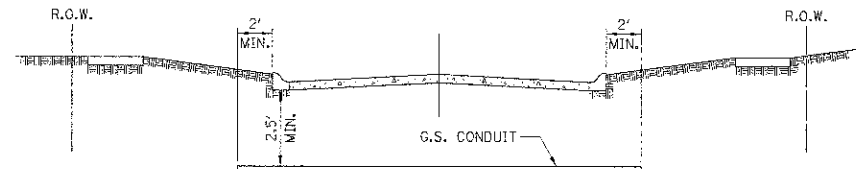


TRANSFORMER BASE (BREAKAWAY DEVICE)
(MEET 1985 AASHTO REQUIREMENTS)



PROPOSED SERVICE INSTALLATION

NOTE: GROUND ROD, GROUND CLAMPS & GROUND WIRE TO BE IN ACCORDANCE WITH COMM. ED. REQUIREMENTS.



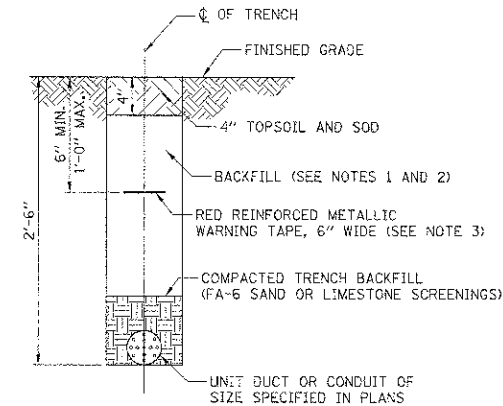
STREET CROSSING

- CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT.
- CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- CONDUIT SHALL BE A MINIMUM OF 2.5 FT. BELOW BOTTOM OF CURB.

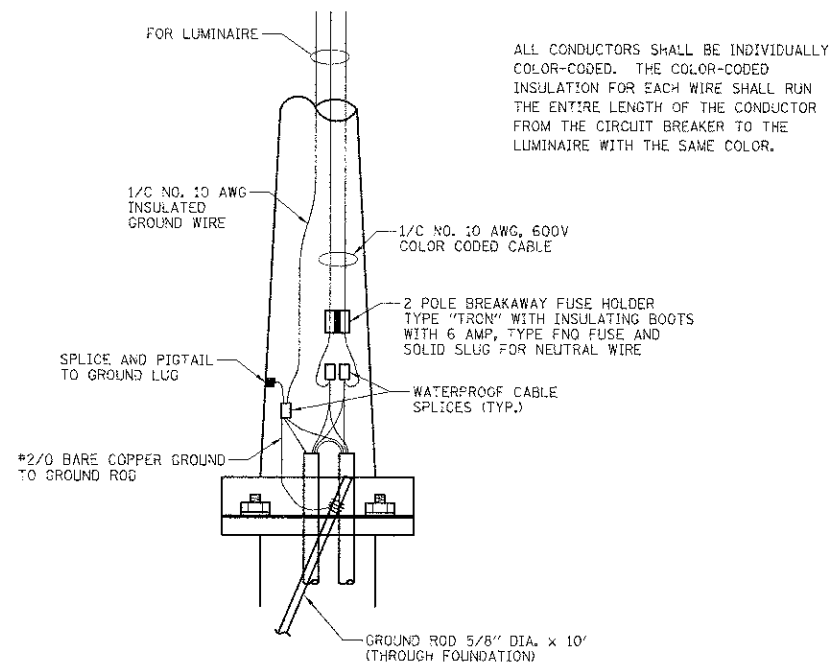
ELECTRICAL CONDUIT UNDER PAVEMENT

NOTES:

- IN GRASS COVERED AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
- TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS WILL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
- WARNING TAPE WILL BE RED WITH BLACK LETTERING TO READ "CAUTION - ELECTRIC LINE BURIED BELOW".
- ALL GRASS COVERED AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED WITH 4" OF TOPSOIL AND SOD.



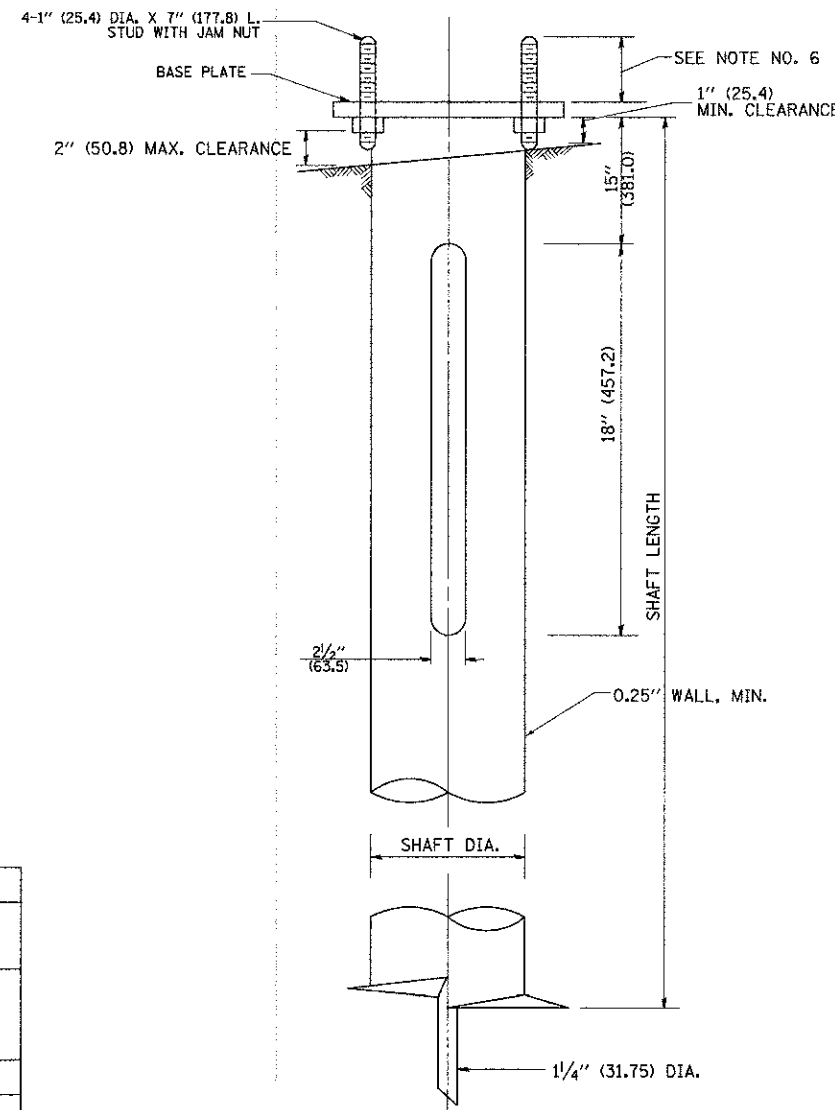
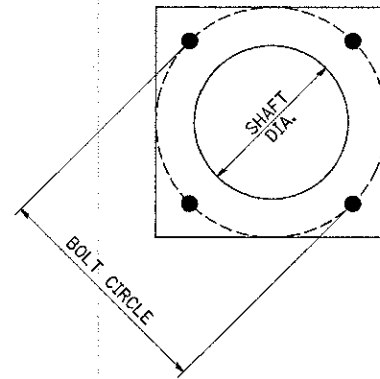
TYPICAL TRENCH CROSS SECTION



ALL CONDUCTORS SHALL BE INDIVIDUALLY COLOR-CODED. THE COLOR-CODED INSULATION FOR EACH WIRE SHALL RUN THE ENTIRE LENGTH OF THE CONDUCTOR FROM THE CIRCUIT BREAKER TO THE LUMINAIRE WITH THE SAME COLOR.

ROADWAY POLE HANDHOLE WIRING DIAGRAM

FILE NAME =	USER NAME = djk	DESIGNED - SJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...ced\sheet\2329_L10-T-Det_1.dgn		DRAWN - SJC	REVISED -			1322	01-00074-00-CH	COOK	245	159
		PLOT SCALE = 1:1000 @ 1/8" = 1'-0"	CHECKED - DNM			REVISED -	CONTRACT NO. 63629			
		PLOT DATE = 8/17/2012	DATE = 8-20-12	REVISED -	SHEET NO. 1 OF 2 SHEETS					
						FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-CM-8031053				



NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

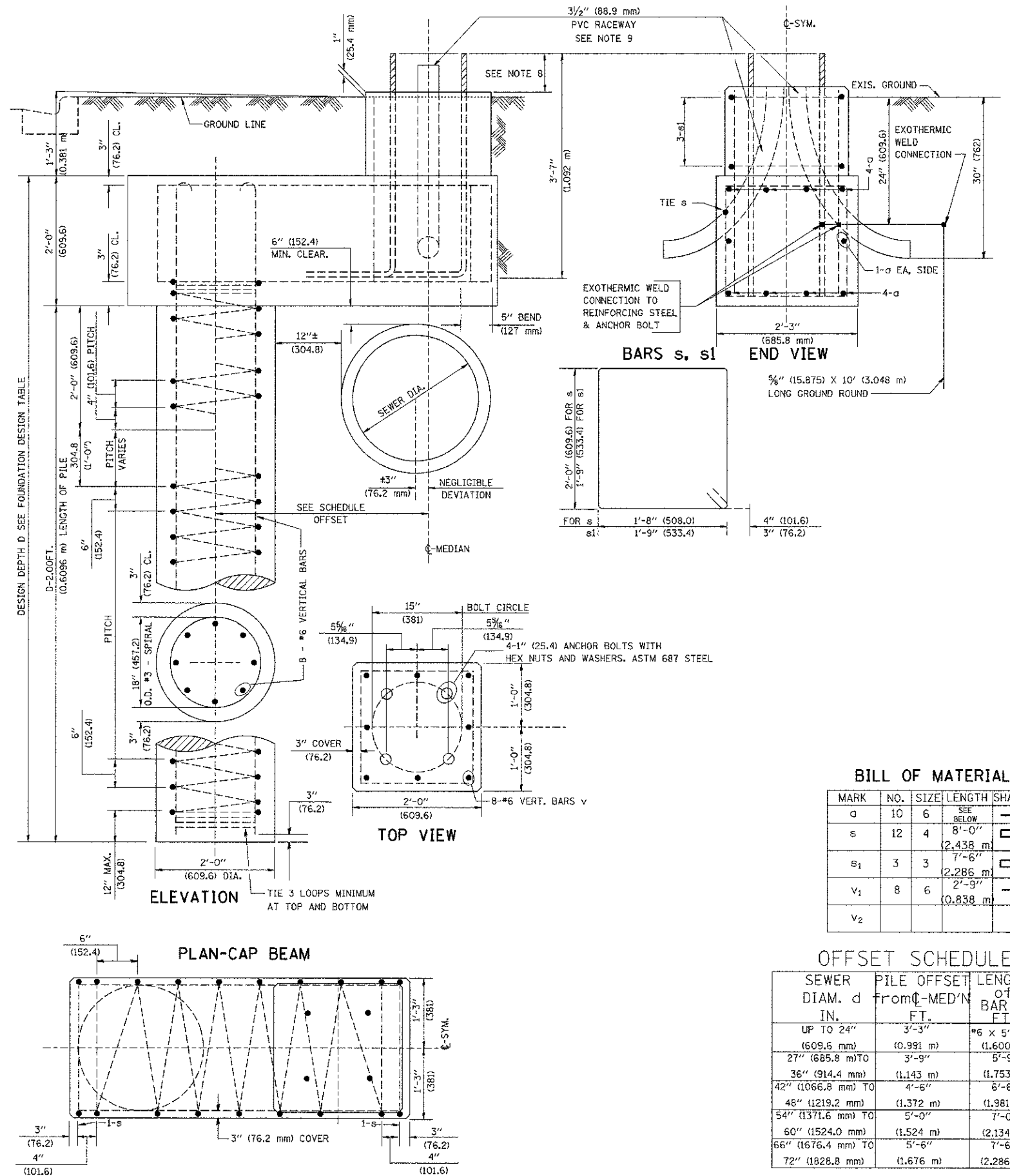
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	*3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	*3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	*3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	*3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	*3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	*3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	*3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	*3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	*3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.








BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s ₁	3	3	7'-6" (2.286 m)	□
v ₁	8	6	2'-9" (0.838 m)	—
v ₂				

OFFSET SCHEDULE

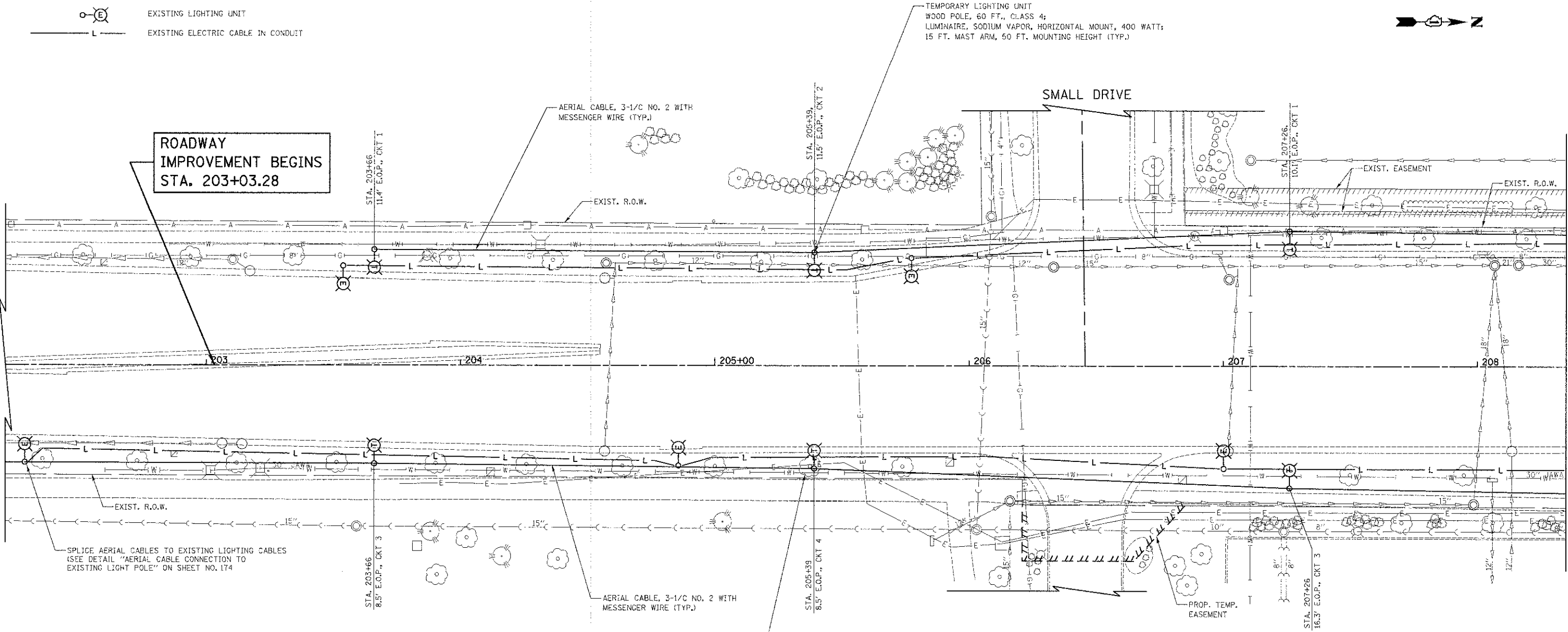
SEWER DIAM. d IN.	PILE OFFSET FROM C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm)	(1.143 m)	6'-6" (1.981 m)
42" (1066.8 mm) TO	4'-6" (1.372 m)	7'-0" (2.134 m)
48" (1219.2 mm)	(1.372 m)	7'-6" (2.286 m)
54" (1371.6 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
60" (1524.0 mm)	(1.524 m)	7'-6" (2.286 m)
66" (1676.4 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
72" (1828.8 mm)	(1.676 m)	(2.286 m)

LEGEND

-  TEMPORARY LIGHTING UNIT
WOOD POLE, 60 FT., CLASS 4;
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT;
15 FT. MAST ARM, 50 FT. MOUNTING HEIGHT
-  TEMPORARY WOOD POLE, 50 FT., CLASS 4
-  AERIAL CABLE, 3-1/8 NO. 2 WITH MESSENGER WIRE
-  EXISTING LIGHTING UNIT
-  EXISTING ELECTRIC CABLE IN CONDUIT



**ROADWAY
IMPROVEMENT BEGINS
STA. 203+03.28**

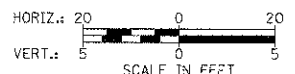


SPLICE AERIAL CABLES TO EXISTING LIGHTING CABLES
(SEE DETAIL "AERIAL CABLE CONNECTION TO
EXISTING LIGHT POLE" ON SHEET NO. 174)

EXISTING TREE TO BE REMOVED
(SEE PLAN AND PROFILE
SHEETS FOR TREE REMOVAL)

NOTES:

1. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE DISCONNECTING AND REMOVING EXISTING LIGHTING UNITS.
2. TEMPORARY LIGHTING SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED LIGHTING SYSTEM IS INSTALLED AND IS OPERATIONAL.



BARRINGTON ROAD

MATCH LINE STA. 208+35
(SEE SHEET NO. 164)

DATE	
BY	
PROJECT	
FILE NAME	

DATE	
BY	
PROJECT	
FILE NAME	

FILE NAME = ...\\shoat\2329_TEMP_LIGHT_01.dgn

USER NAME = djk
DESIGNED - SJC
DRAWN - SJC
CHECKED - DNM
DATE - 8-20-12

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD
TEMPORARY LIGHTING PLANS

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 203+03.28 TO STA. 208+35

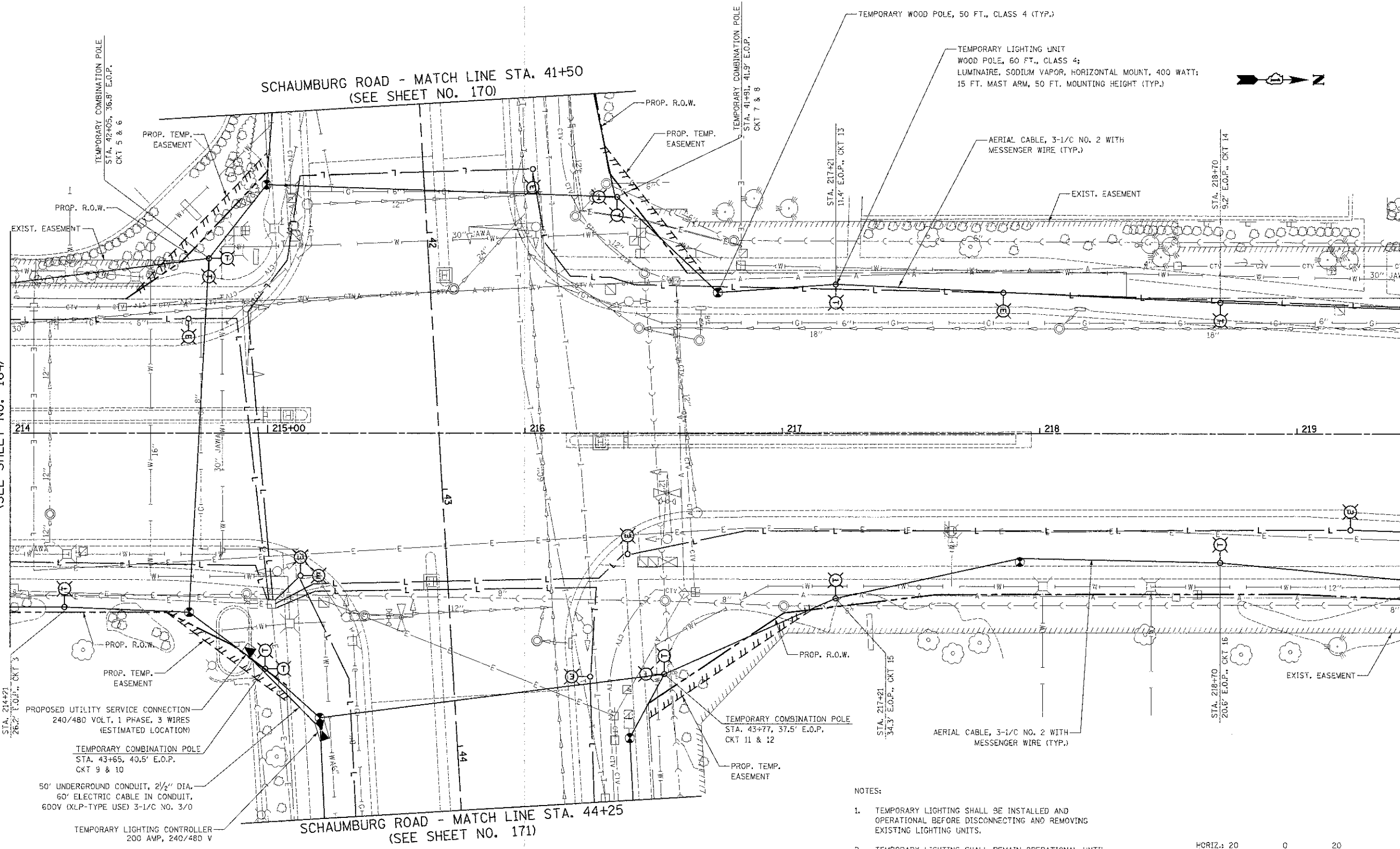
F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	163
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-800305D				

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FILE NAME	

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DATE	
FILE NAME	

MATCH LINE STA. 214+00
(SEE SHEET NO. 164)

MATCH LINE STA. 219+45
(SEE SHEET NO. 166)



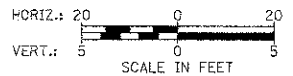
PROPOSED UTILITY SERVICE CONNECTION
240/480 VOLT, 1 PHASE, 3 WIRES
(ESTIMATED LOCATION)

TEMPORARY COMBINATION POLE
STA. 43+65, 40.5' E.O.P.
CKT 9 & 10

50' UNDERGROUND CONDUIT, 2 1/2" DIA.
60" ELECTRIC CABLE IN CONDUIT,
600V (XLP-TYPE USE) 3-1/C NO. 3/0

TEMPORARY LIGHTING CONTROLLER
200 AMP, 240/480 V

- NOTES:
- TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE DISCONNECTING AND REMOVING EXISTING LIGHTING UNITS.
 - TEMPORARY LIGHTING SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED LIGHTING SYSTEM IS INSTALLED AND IS OPERATIONAL.
 - REMOVAL OF COMBINATION POLE SHALL BE PART OF TRAFFIC SIGNAL SYSTEM BUT REMOVAL OF TEMPORARY LUMINAIRES AND MAST ARMS ON THOSE POLES ARE REMOVED AND PAID FOR AS PART OF "REMOVAL OF TEMPORARY LIGHTING UNIT".

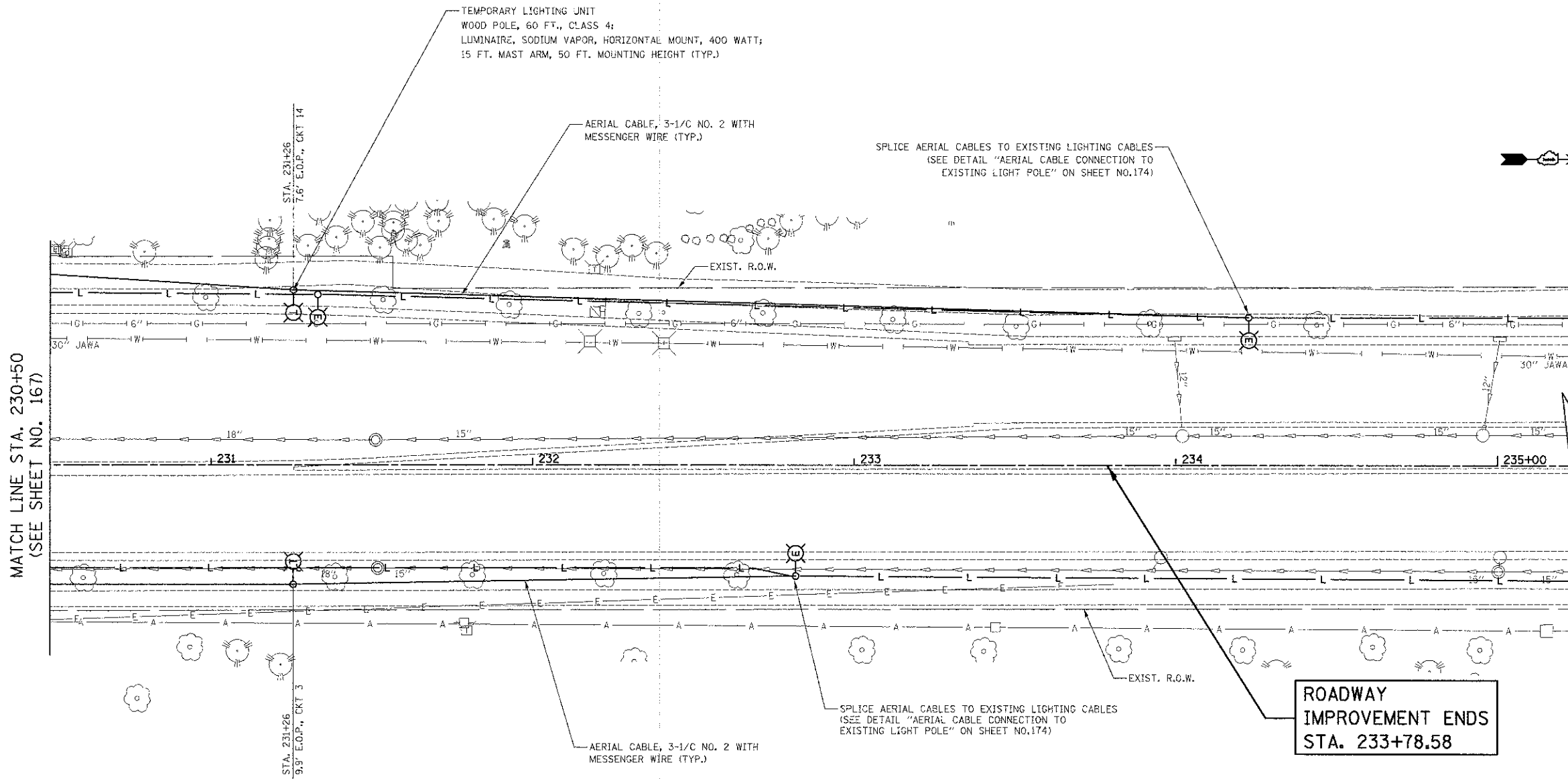


BARRINGTON ROAD

FILE NAME = sheet\2329_TEMP_LIGHT_03.dgn	USER NAME = djr	DESIGNED - SJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BARRINGTON ROAD TEMPORARY LIGHTING PLANS	F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 165	CONTRACT NO. 63629
PLOT SCALE = 20.0000' / in.	CHECKED - DNM	REVISOR -	DATE - 8-20-12			SCALE: 1" = 20'	SHEET NO. 3 OF 11 SHEETS	STA. 214+00 TO STA. 219+45	FED. ROAD DIST. NO. 1 [ILLINOIS]	FED. AID PROJECT M-CMM-8003065	

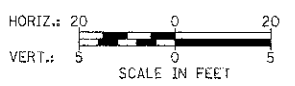
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	IN (NAME)		
	NOTE BOOK NO.		
	FIELD FILE NAME		

PROF. ILL.	SURVEYED	BY	DATE
	GRABS CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		



NOTES:

- TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE DISCONNECTING AND REMOVING EXISTING LIGHTING UNITS.
- TEMPORARY LIGHTING SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED LIGHTING SYSTEM IS INSTALLED AND IS OPERATIONAL.



BARRINGTON ROAD

FILE NAME =
...sheet\2329_TEMP_LIGHT_05.dgn

USER NAME = djk
DRAWN - SJC
CHECKED - DNM
DATE - 8-20-12

DESIGNED - SJC
DRAWN - SJC
CHECKED - DNM
DATE - 8-20-12

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

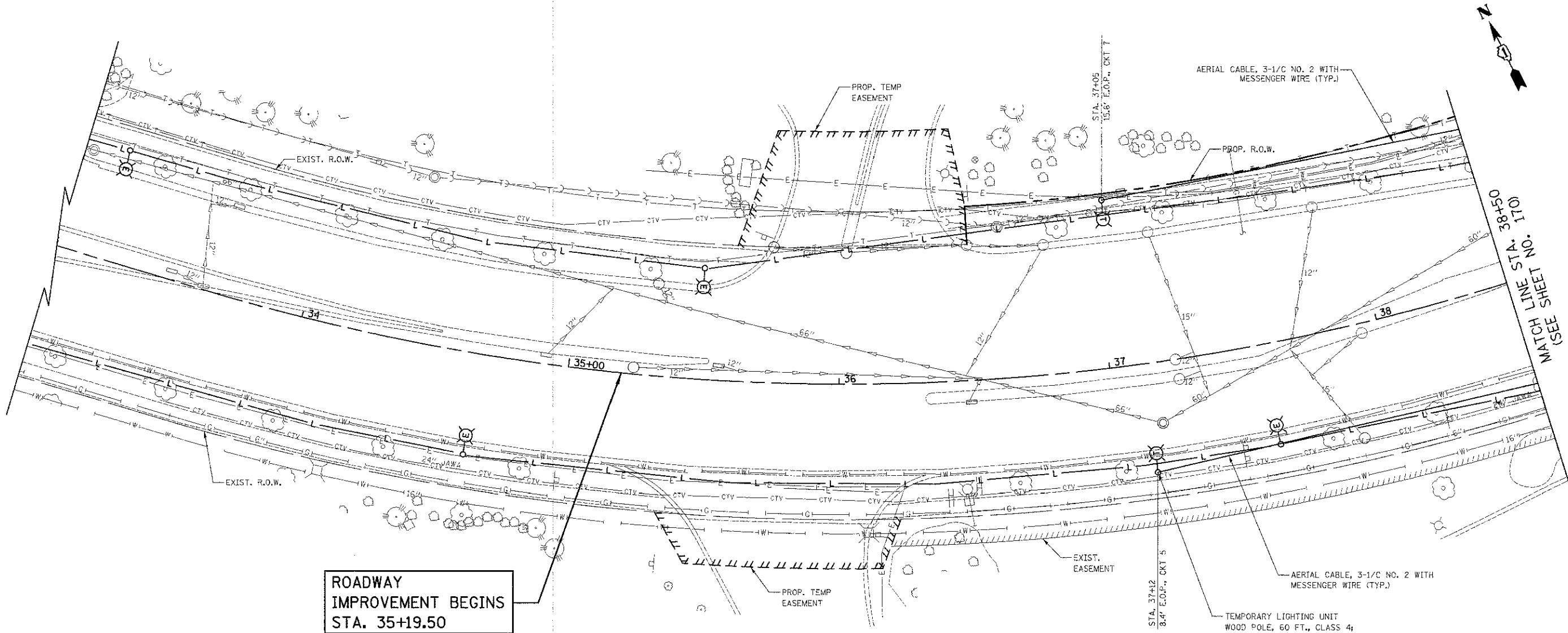
BARRINGTON ROAD
TEMPORARY LIGHTING PLANS

SCALE: 1" = 20' SHEET NO. 6 OF 11 SHEETS STA. 230+50 TO STA. 233+78.58

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	G1-00074-00-CH	COOK	245	168
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-80030651				

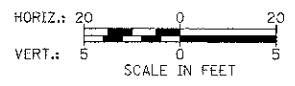
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NOTE BOOK	
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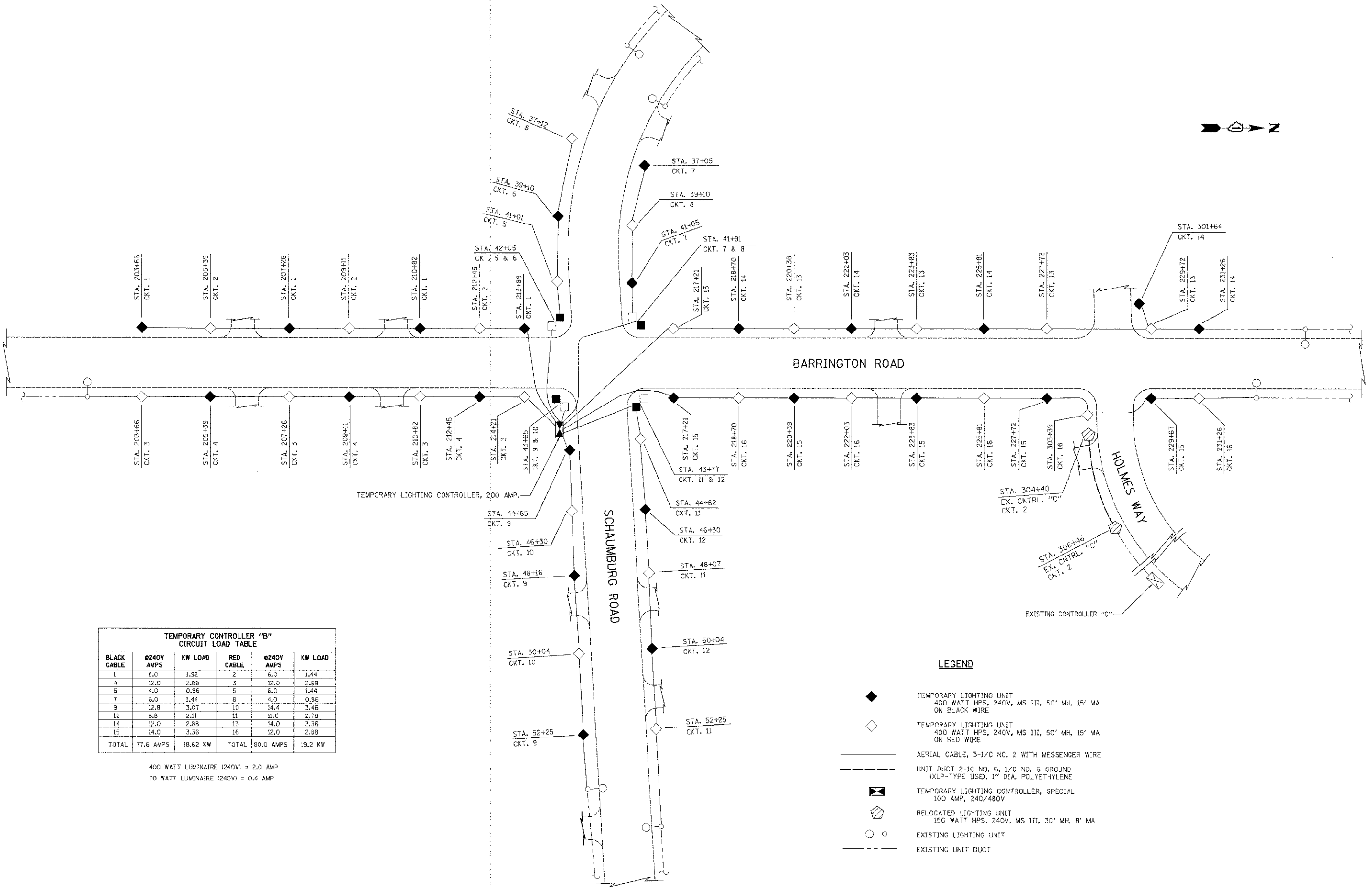
**ROADWAY
IMPROVEMENT BEGINS
STA. 35+19.50**

- NOTES:
1. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE DISCONNECTING AND REMOVING EXISTING LIGHTING UNITS.
 2. TEMPORARY LIGHTING SHALL REMAIN OPERATIONAL UNTIL THE PROPOSED LIGHTING SYSTEM IS INSTALLED AND IS OPERATIONAL.



SCHAUBURG ROAD

FILE NAME = ...\\nas29\1\2329_TEMP_L10\T...07.dgn	USER NAME = djk	DESIGNED - SJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHAUBURG ROAD TEMPORARY LIGHTING PLANS	F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 169
SCALE = 1" = 20'	SHEET NO. 7 OF 11 SHEETS	STA. 35+19.50 TO STA. 38+50	CONTRACT NO. 63629							
SCALE: 1" = 20'	SHEET NO. 7 OF 11 SHEETS	STA. 35+19.50 TO STA. 38+50	ILLINOIS FED. AID PROJECT M-CMM-800305D							



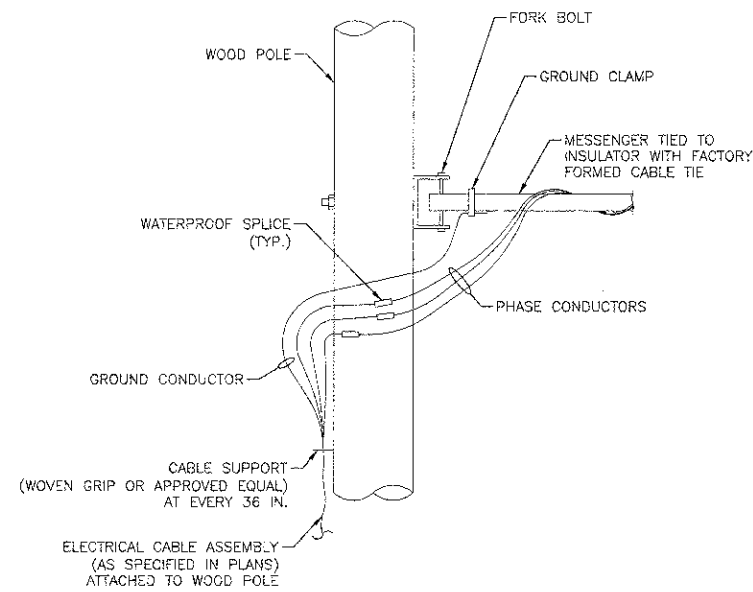
**TEMPORARY CONTROLLER "B"
CIRCUIT LOAD TABLE**

BLACK CABLE	Ø240V AMPS	KW LOAD	RED CABLE	Ø240V AMPS	KW LOAD
1	8.0	1.92	2	6.0	1.44
4	12.0	2.88	3	12.0	2.88
6	4.0	0.96	5	6.0	1.44
7	6.0	1.44	8	4.0	0.96
9	12.8	3.07	10	14.4	3.46
12	8.8	2.11	11	11.6	2.78
14	12.0	2.88	13	14.0	3.36
15	14.0	3.36	16	12.0	2.88
TOTAL	77.6 AMPS	18.62 KW	TOTAL	80.0 AMPS	19.2 KW

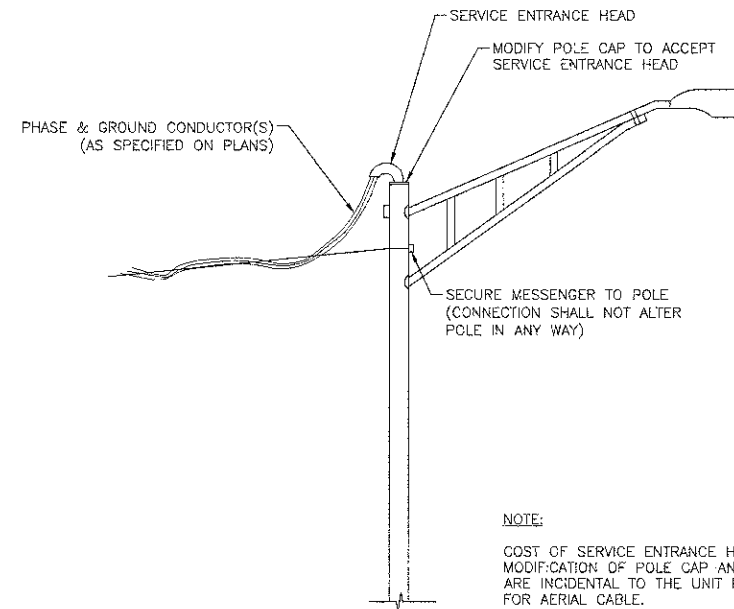
400 WATT LUMINAIRE (240V) = 2.0 AMP
70 WATT LUMINAIRE (240V) = 0.4 AMP

LEGEND

- ◆ TEMPORARY LIGHTING UNIT
400 WATT HPS, 240V, MS III, 50' MH, 15' MA ON BLACK WIRE
- ◇ TEMPORARY LIGHTING UNIT
400 WATT HPS, 240V, MS III, 50' MH, 15' MA ON RED WIRE
- AERIAL CABLE, 3-1/2 NO. 2 WITH MESSENGER WIRE
- - - UNIT DUCT 2-10 NO. 6, 1/2 NO. 6 GROUND (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ⊠ TEMPORARY LIGHTING CONTROLLER, SPECIAL
100 AMP, 240/480V
- ◊ RELOCATED LIGHTING UNIT
150 WATT HPS, 240V, MS III, 30' MH, 8' MA
- EXISTING LIGHTING UNIT
- - - EXISTING UNIT DUCT

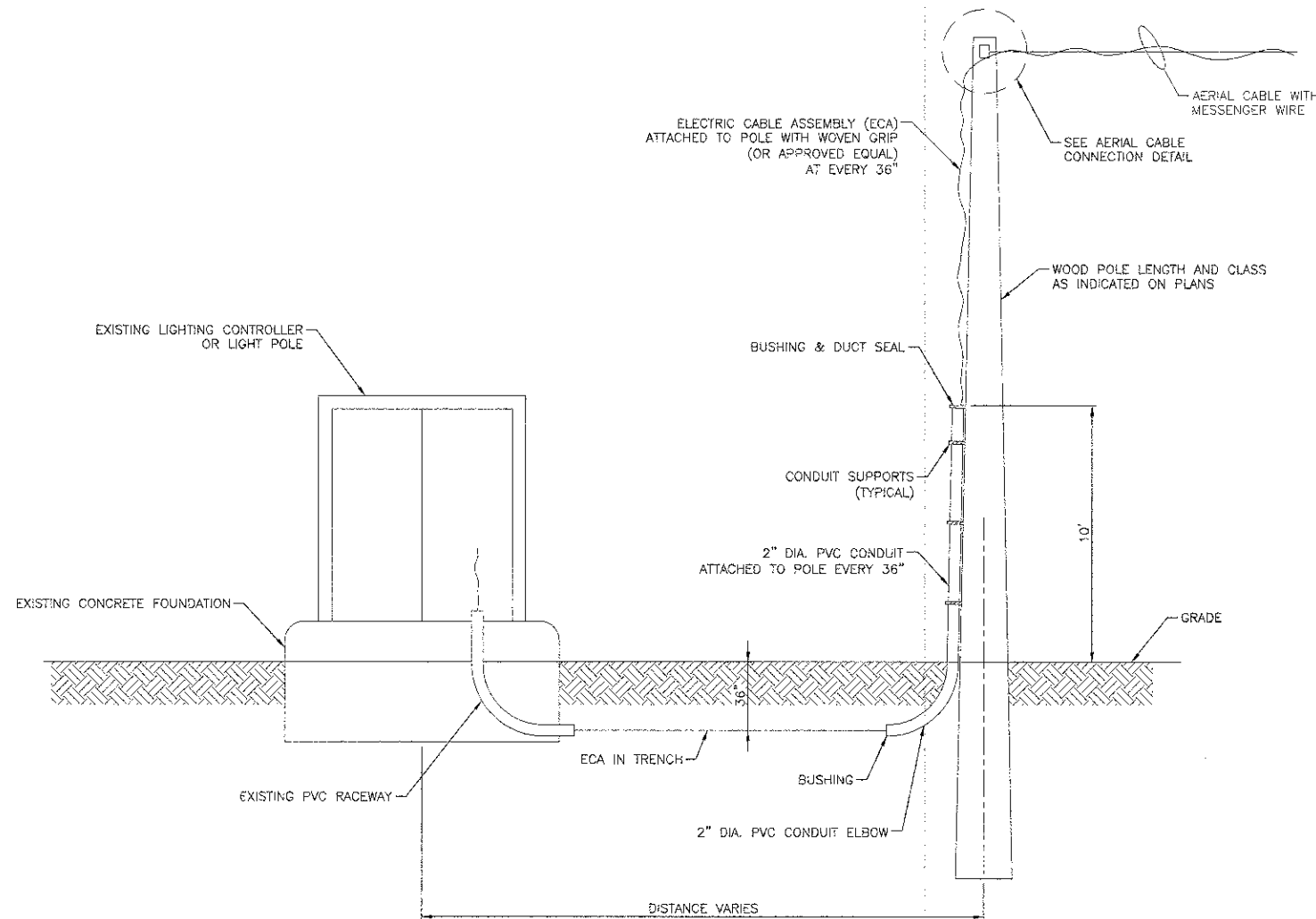


AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE CONNECTION TO EXISTING LIGHT POLE
N.T.S.

NOTE:
COST OF SERVICE ENTRANCE HEAD, MODIFICATION OF POLE CAP AND CONNECTION ARE INCIDENTAL TO THE UNIT PRICE FOR AERIAL CABLE.



WIRING CONNECTION DETAIL
WOOD POLE TO EXISTING LIGHTING CONTROLLER OR LIGHT POLE
N.T.S.

NOTE:
COST OF SPLICES, ELECTRIC CABLES IN TRENCH, ELECTRIC CABLES ATTACHED TO POLE, 2" DIA. PVC CONDUIT AND MOUNTING HARDWARE ARE INCIDENTAL TO THE UNIT PRICE FOR AERIAL CABLE.

DATE	
BY	
REVISION	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	
MAINTENANCE	
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CONSTRUCTION	
OPERATION	
MAINTENANCE	

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USER NAME = djh
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 PLOT DATE = 8/16/2012

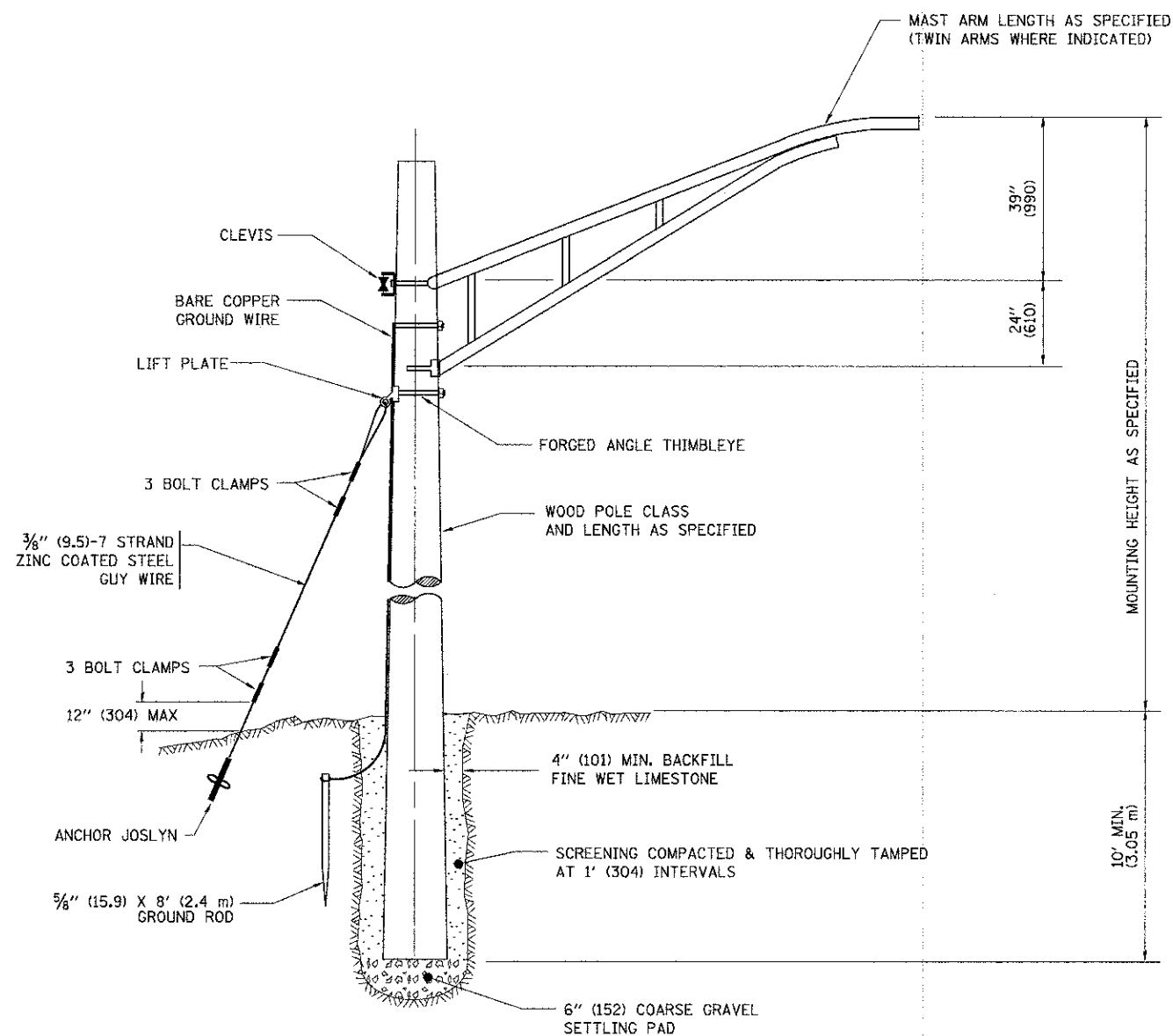
DESIGNED - SJC
 DRAWN - SJC
 CHECKED - DNM
 DATE - 8-20-12

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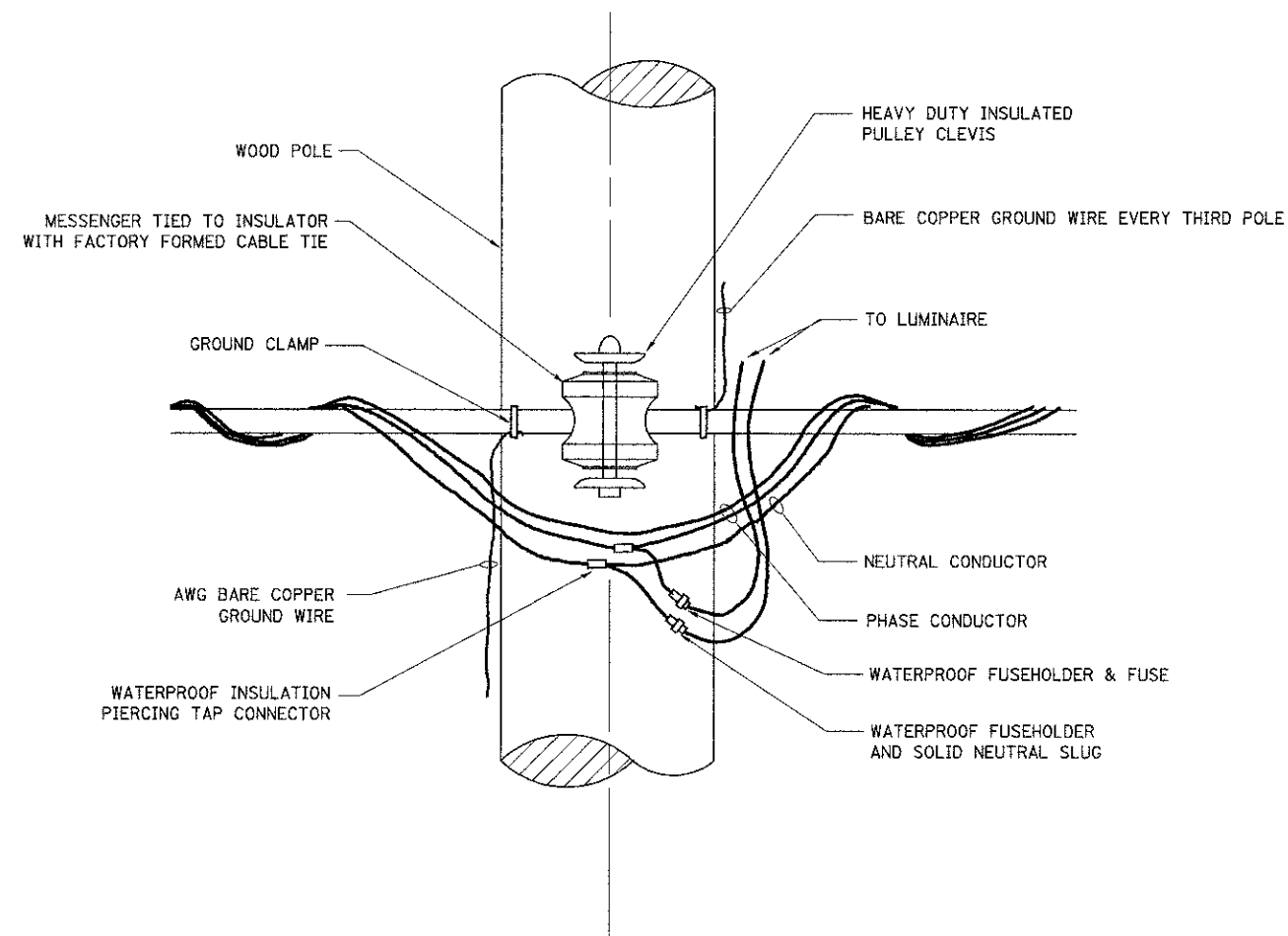
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING DETAILS
SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	174
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				



TEMPORARY LIGHT POLE DETAIL

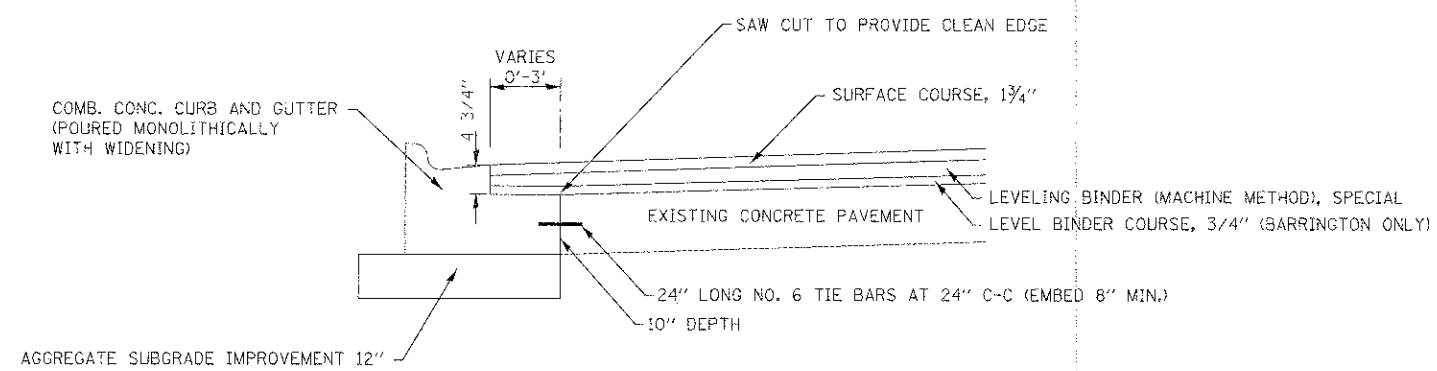


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

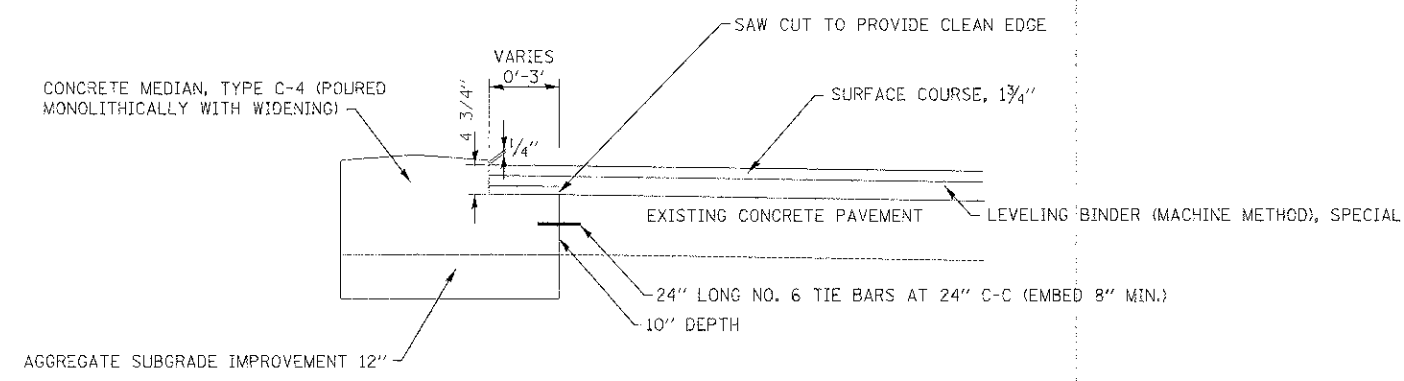
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

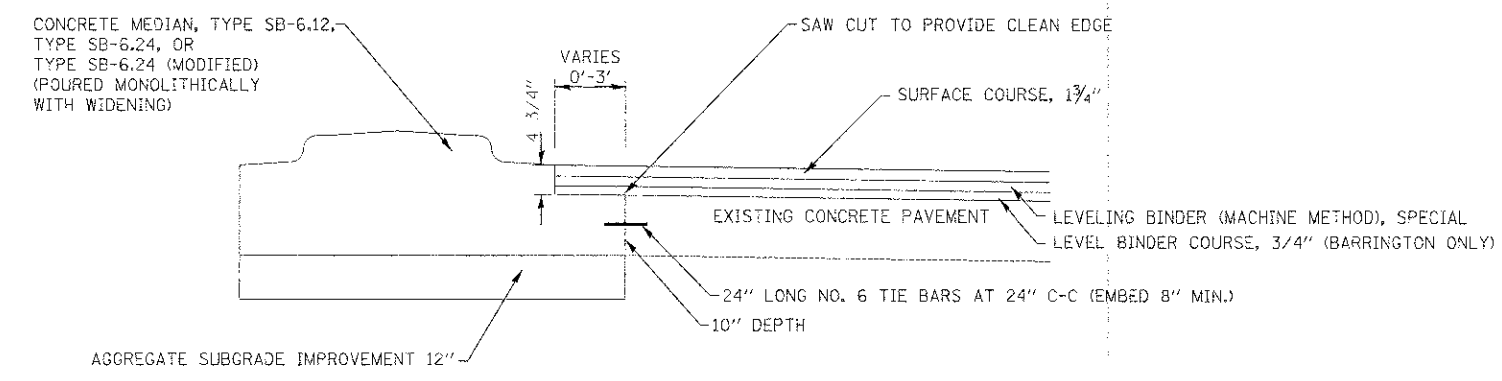
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	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-800		CONTRACT NO. 63629
	PLOT DATE = 1/4/2008	DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)						



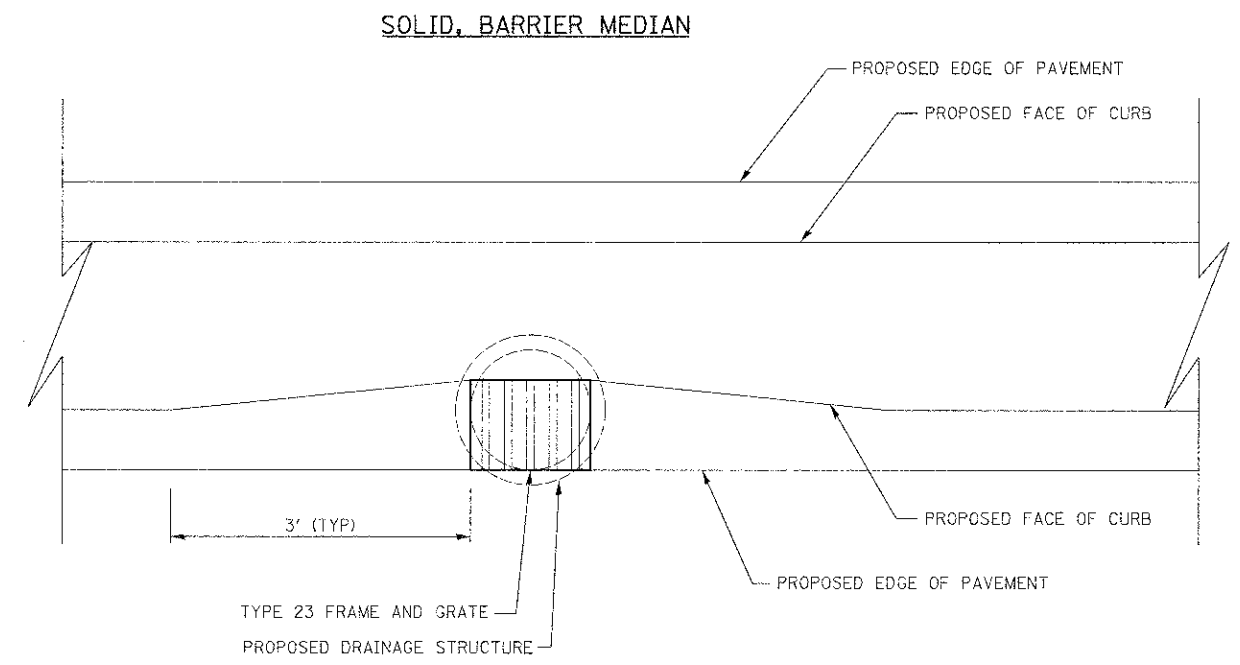
COMBINATION CONCRETE CURB AND GUTTER (VARIOUS TYPES)
AT LOCATIONS WHERE WIDENING IS 3' OR LESS



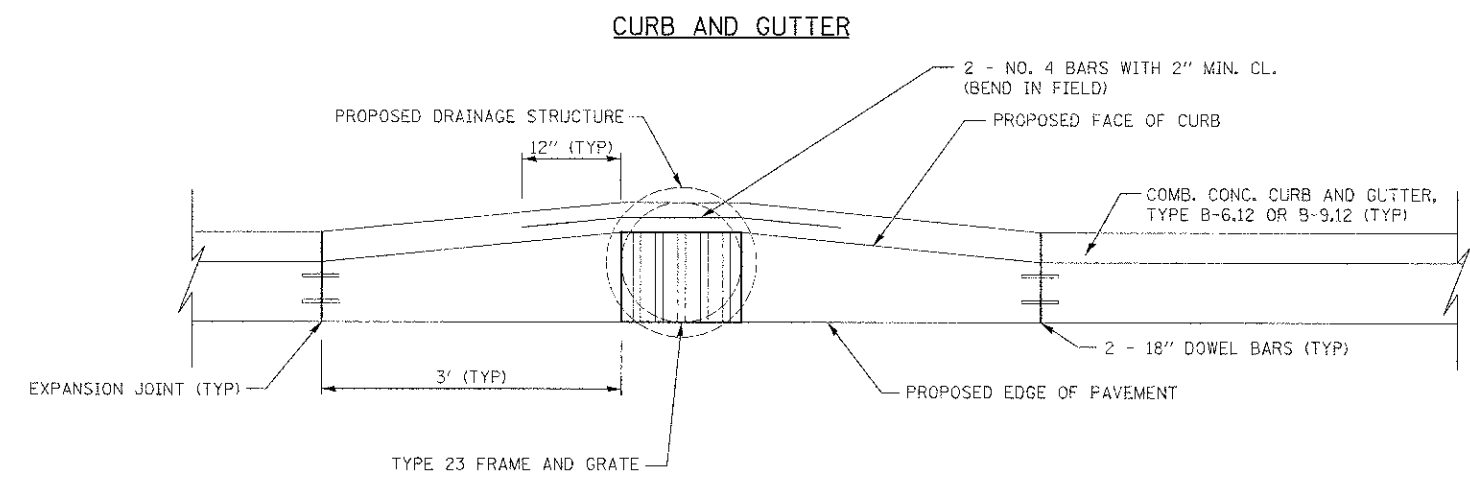
CONCRETE MEDIAN, TYPE C-4
AT LOCATIONS WHERE WIDENING IS 3' OR LESS



**CONCRETE MEDIAN, TYPE SB-6.12,
TYPE SB-6.24, OR TYPE SB-6.24 (MODIFIED)**
AT LOCATIONS WHERE WIDENING IS 3' OR LESS



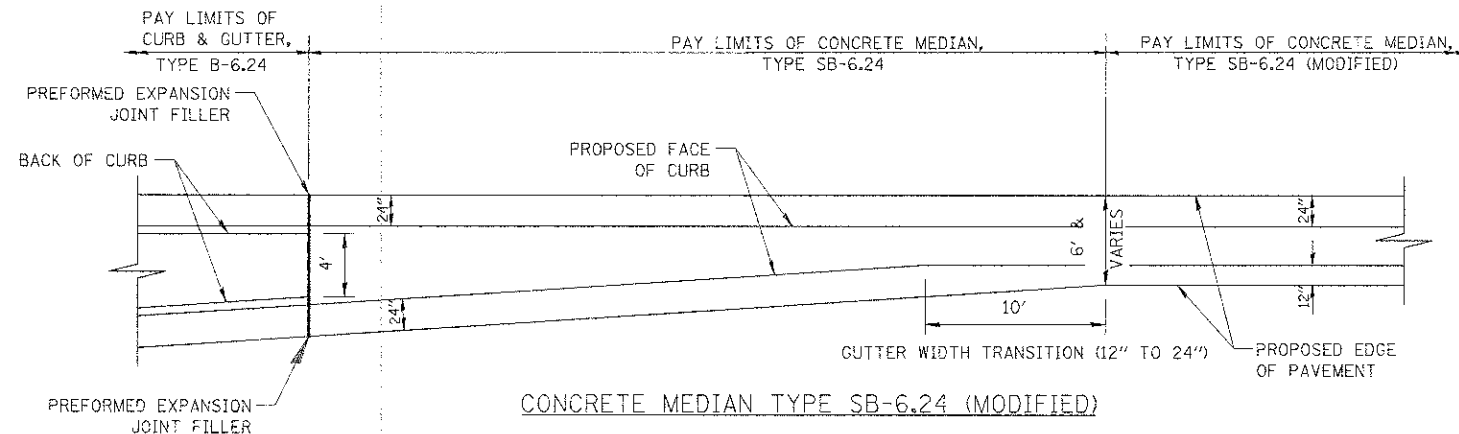
NOTE:
ADDITIONAL GUTTER WIDTH SHALL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN, TYPE SB-6.12" OR "CONCRETE MEDIAN, TYPE SB-6.24 (MODIFIED)".



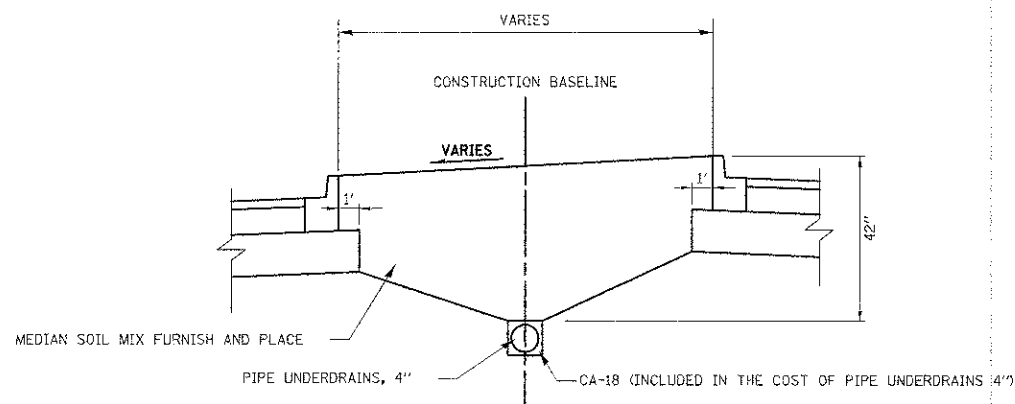
NOTE:
ADDITIONAL GUTTER WIDTH, EXPANSION JOINTS, AND REINFORCEMENT SHALL BE INCLUDED IN THE COST OF "COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12" OR "COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12".

**GUTTER TRANSITION
AT TYPE 23 FRAME AND GRATE DETAIL**
NOT TO SCALE

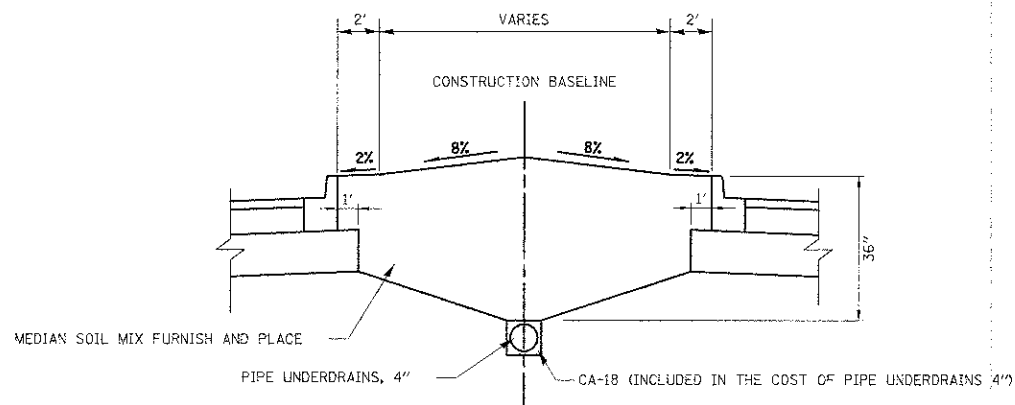
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...2329\cad\sheet\2329_DET_01.dgn	PLOT SCALE = 20,0000 1/16"	DRAWN - KRK	REVISED -			1322	01-00074-00-CH	COOK	245	176	
PLOT DATE = 8/17/2012	DATE - 8-20-12	CHECKED - DJK	REVISED -			CONTRACT NO. 63629					
		DATE - 8-20-12	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-DM-800305U					
					SCALE:	SHEET NO. 1 OF 10 SHEETS	STA.	TO STA.			



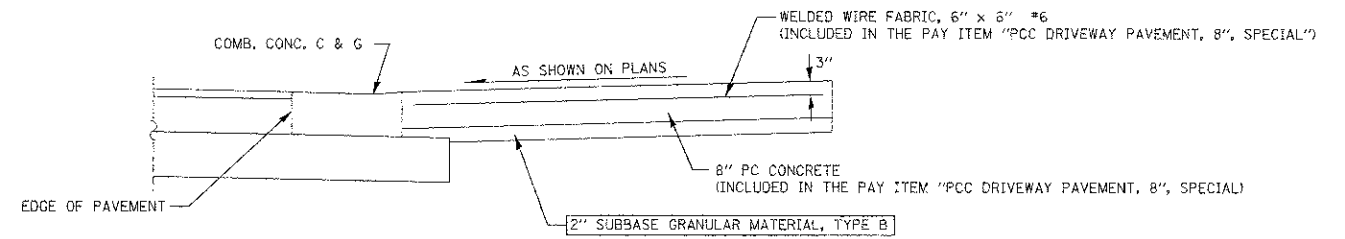
NOTE: CONCRETE MEDIAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE PORTIONS OF STANDARD 606301



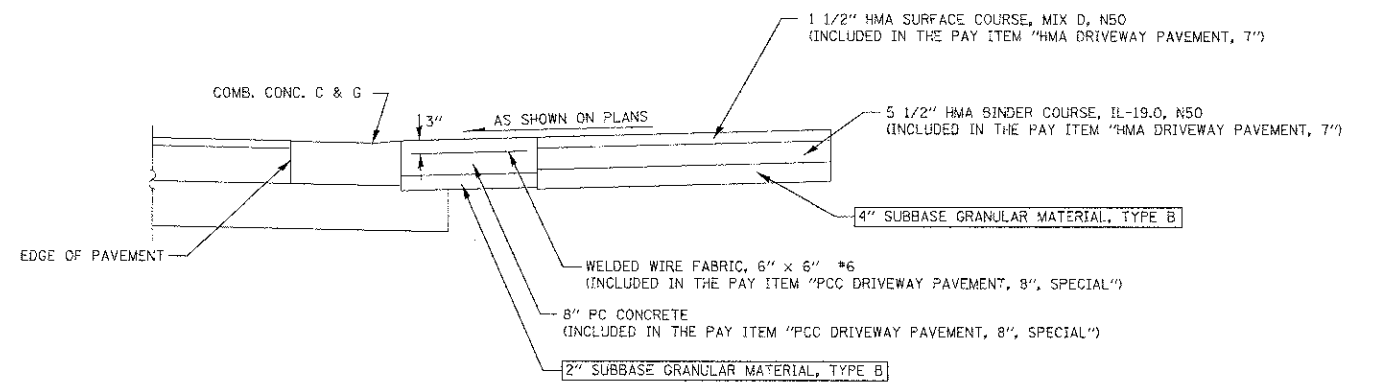
LANDSCAPE MEDIAN DETAIL - STA. 46+74 TO STA. 48+49
NOT TO SCALE



LANDSCAPE MEDIAN DETAIL - STA. 51+53 TO STA. 53+40
NOT TO SCALE



PCC COMMERCIAL DRIVEWAY DETAIL
NOT TO SCALE



HMA COMMERCIAL DRIVEWAY DETAIL
NOT TO SCALE

FILE NAME =
...\\2329\oad\sheet\2329_DET_02.dgn

USER NAME = djk
PLOT SCALE = 20,0000 / 1 in.
PLOT DATE = 8/17/2012

DESIGNED - KRK
DRAWN - KRK
CHECKED - DJK
DATE - 8-20-12

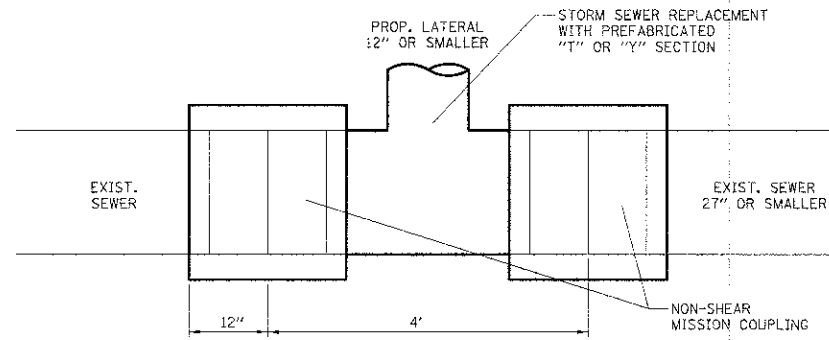
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD AND SCHAUMBURG ROAD
DETAILS

SCALE: SHEET NO. 2 OF 10 SHEETS STA. TO STA.

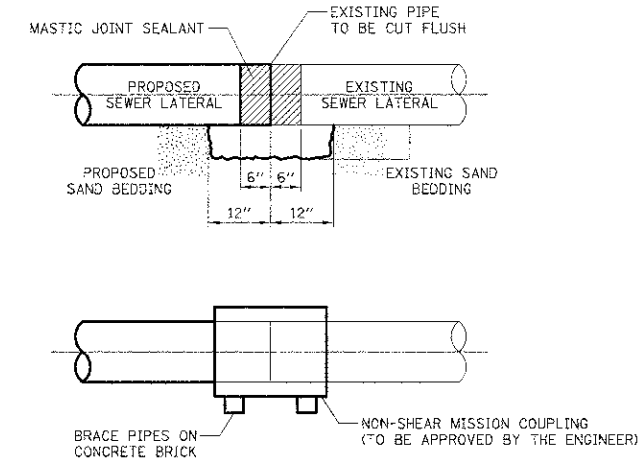
P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	177
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003051				



DETAIL A

LATERAL CONNECTION TO EXISTING SEWER OF 24" OR SMALLER

NOT TO SCALE



DETAIL B

NON-SHEAR MISSION COUPLING

NOT TO SCALE

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. INSTALL MISSION COUPLING.
5. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
6. SUPPORT EACH PIPE END WITH CONCRETE BRICK.

NOTES

MATERIAL

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

CONSTRUCTION METHODS

I THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

- A) PROPOSED STORM SEWER CONNECTIONS TO EXISTING SEWER OF 24" OR SMALLER SEE DETAIL "A" AND "B".
- B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER LARGER THAN 24" SEE DETAIL "C".

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

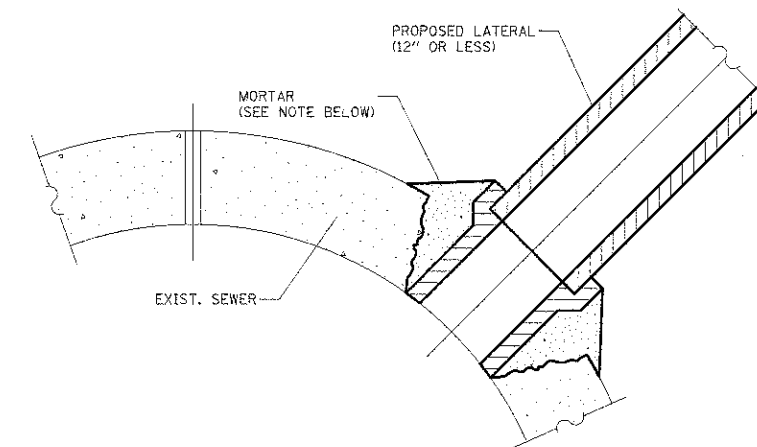
GENERAL

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

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

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE STORM SEWER BEING CONSTRUCTED.

THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS BEING CONSTRUCTED.



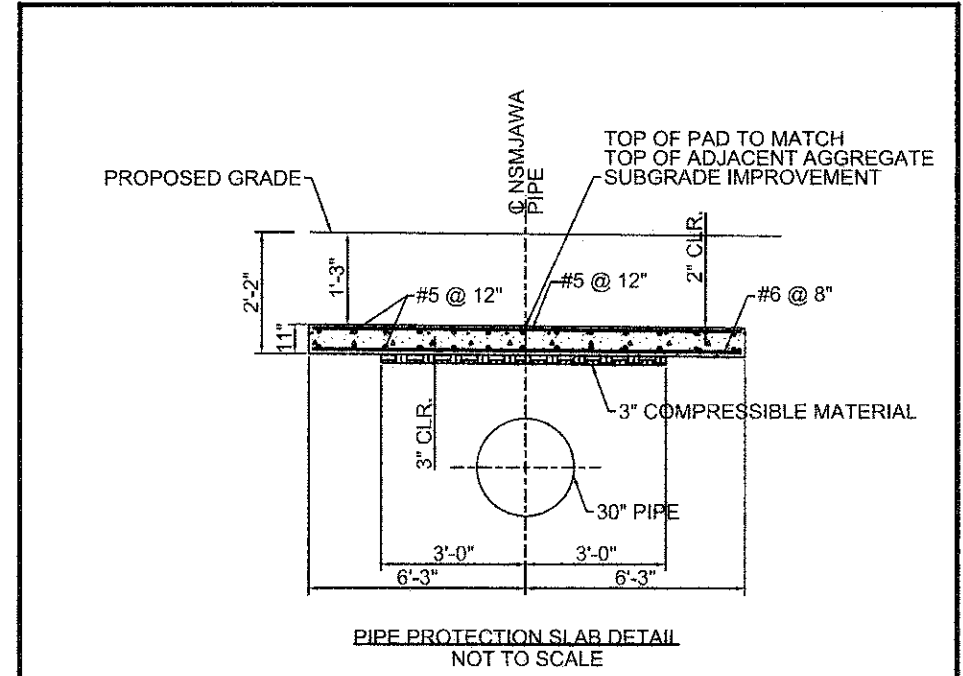
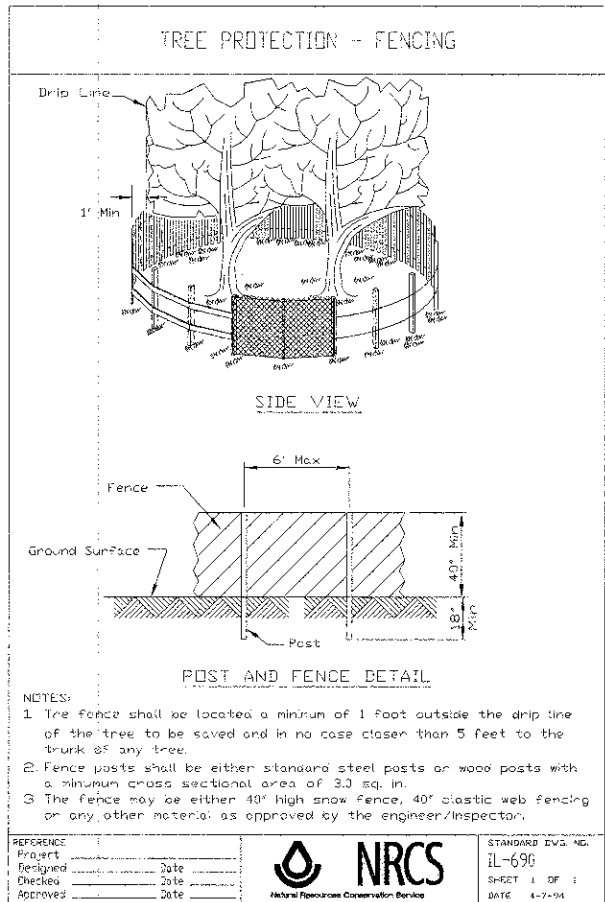
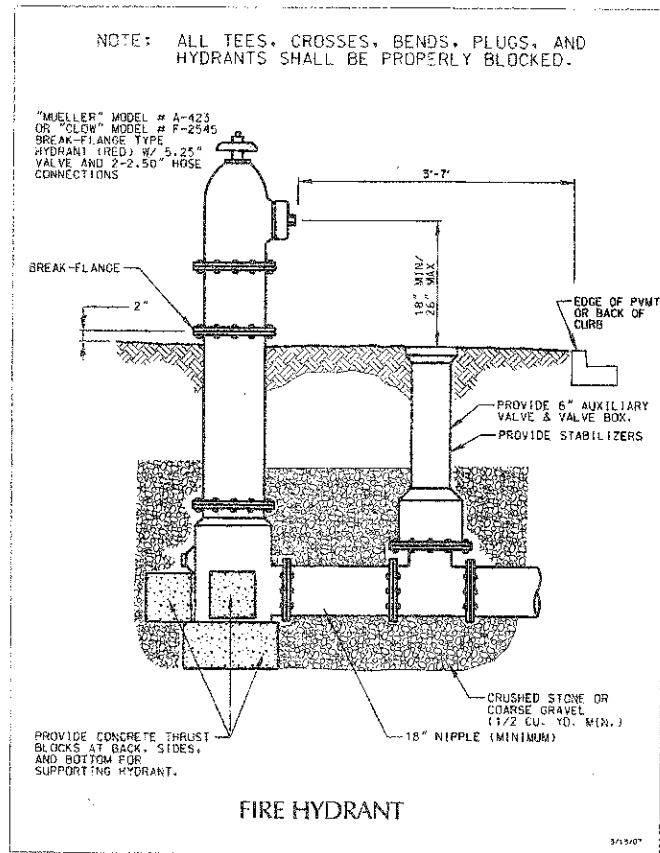
DETAIL C

PROPOSED LATERAL CONNECTION TO EXISTING SEWER LARGER THAN 24"

NOT TO SCALE

NOTE:
FOR STORM SEWERS LARGER THAN 24" ON SCHAUMBURG ROAD (CCHD JURISDICTION), THE EXISTING SEWER PIPE SHALL BE FIELD CORED AND RUBBER BOOT CONNECTIONS INSTALLED. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS BEING CONSTRUCTED.

FILE NAME = ...2329\cad\shes\2329_DET_04.dgn	USER NAME = djk	DESIGNED - Krk	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BARRINGTON ROAD AND SCHAUMBURG ROAD DETAILS	F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEET SHEETS: NO. 245 178	
PLST SCALE = 28.0300 ' / in.	CHECKED - DJK	REVISIED -	SCALE:			SHEET NO. 3 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 63629	
PLGT DATE = 8/17/2012	DATE - 8-20-12	REVISIED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-8003(05)							

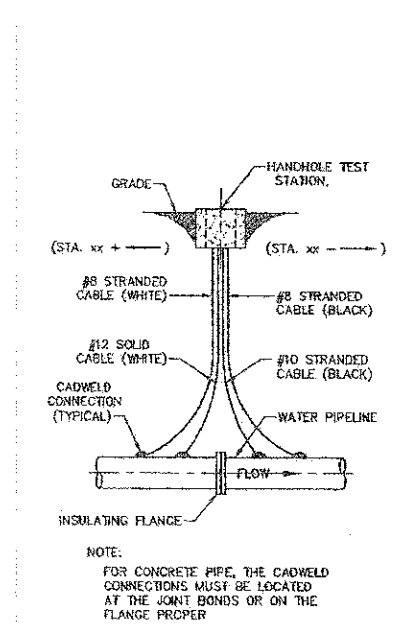
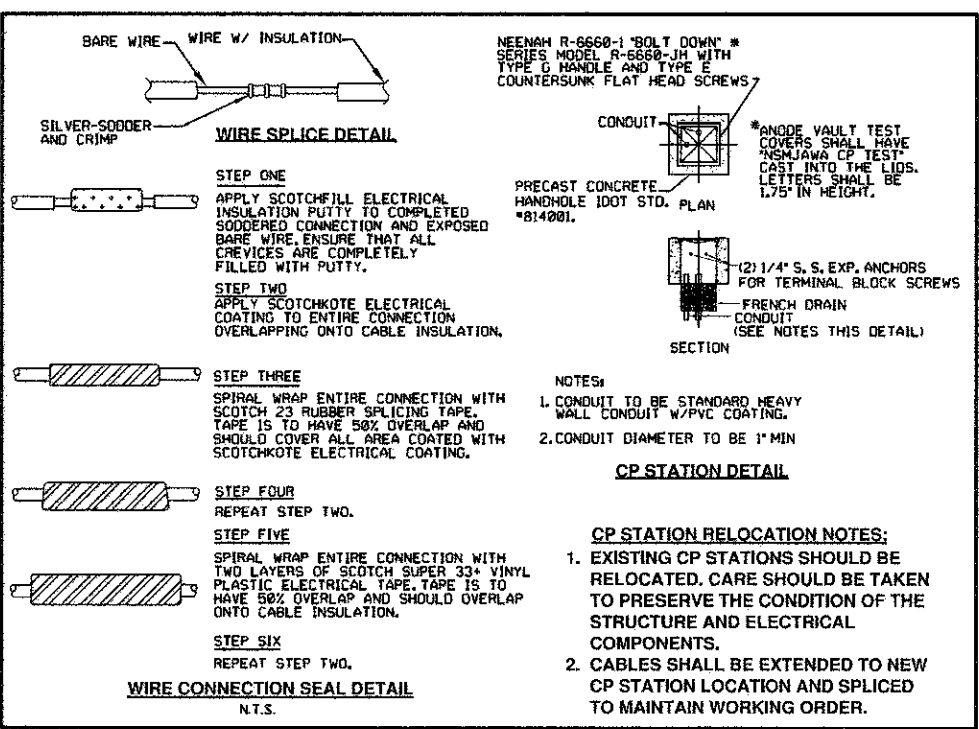


COMPRESSIBLE MATERIAL SHALL BE EXTRUDED-POLYSTYRENE BOARD INSULATION COMPLYING WITH ASTM C578, TYPE IV, 25-PSI MINIMUM COMPRESSIVE STRENGTH.

- NOTES:
- MATERIALS:
F_c = 3,500 PSI
REINFORCEMENT BARS SHALL BE GRADE 60 BARS IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - PLACE SLAB IN LIEU OF AGGREGATE SUBGRADE IN PROPOSED PAVEMENT CROSS SECTION. SLAB SHALL BE CURED FOR 7 DAYS IN ACCORDANCE WITH REQUIREMENTS FOR SUBSTRUCTURE IN IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PRIOR TO SUBSEQUENT PAVEMENT PLACEMENT.
 - PLACE SLAB BETWEEN STATIONS 211+00 AND 213+50.
 - IN AREAS WHERE THE PROPOSED PAVEMENT IS CONSTRUCTED OVER THE EXISTING NSMJAWA WATER MAIN, AND NO STRUCTURAL PROTECTION SLAB IS INSTALLED, CONSTRUCTION LOADS OVER THE EXISTING WATER MAIN SHALL NOT BE GREATER THAN HS-20 LOADINGS.

NSMJAWA
BARRINGTON ROAD
PROTECTION SLAB FOR
NSMJAWA PIPE

PAID FOR AS "UTILITY PROTECTION PAD"

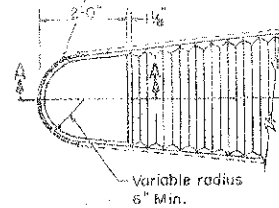


- CP STATION RELOCATION NOTES:
- EXISTING CP STATIONS SHOULD BE RELOCATED. CARE SHOULD BE TAKEN TO PRESERVE THE CONDITION OF THE STRUCTURE AND ELECTRICAL COMPONENTS.
 - CABLES SHALL BE EXTENDED TO NEW CP STATION LOCATION AND SPLICED TO MAINTAIN WORKING ORDER.

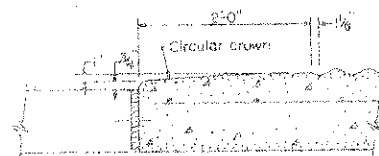
PAID FOR AS "RELOCATE EXISTING HANDHOLE"

STANDARD DESIGN CONCRETE MEDIANS

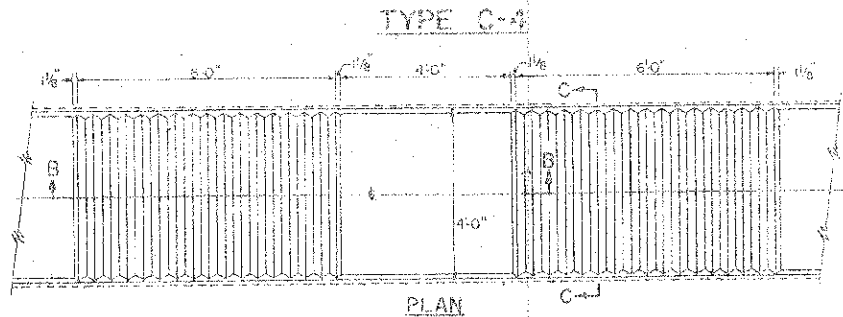
3/4" Preformed expansion joint filler
between adjacent pavement and median
edge of one radius



NOTE: OMIT TAPERED SECTION UNLESS SHOWN ON PLANS

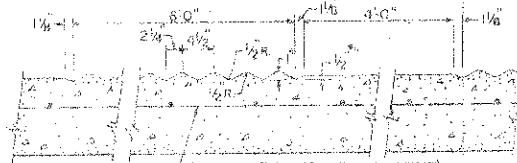


SECTION A-A

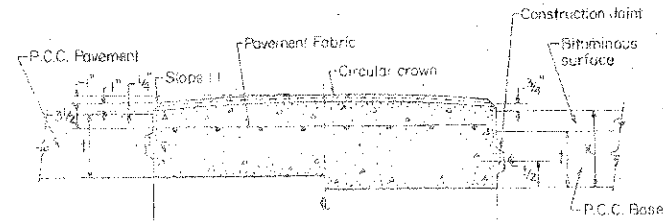


TYPE C-4

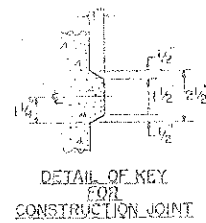
PLAN



SECTION B-B



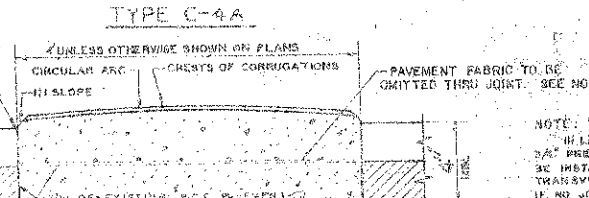
SECTION C-C
HALF SECTION FOR P.C.C. PAVEMENT
HALF SECTION FOR P.C.C. BASE COURSE



DETAIL OF KEY
FOR
CONSTRUCTION JOINT

PAVEMENT SURFACE ADJACENT
TO MEDIAN (SEE CROSS SECTIONS
FOR ELEVATIONS)

PROPOSED
BITUMINOUS SURFACE
EXISTING
BITUMINOUS SURFACE

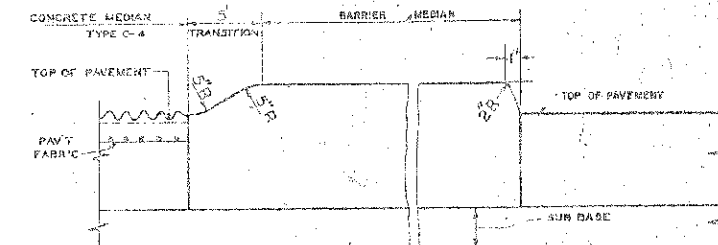


UNLESS OTHERWISE SHOWN ON PLANS
CIRCULAR ARC
CRESTS OF CORRUGATIONS
PAVEMENT FABRIC TO BE
OMITTED THRU JOINT. SEE NOTE

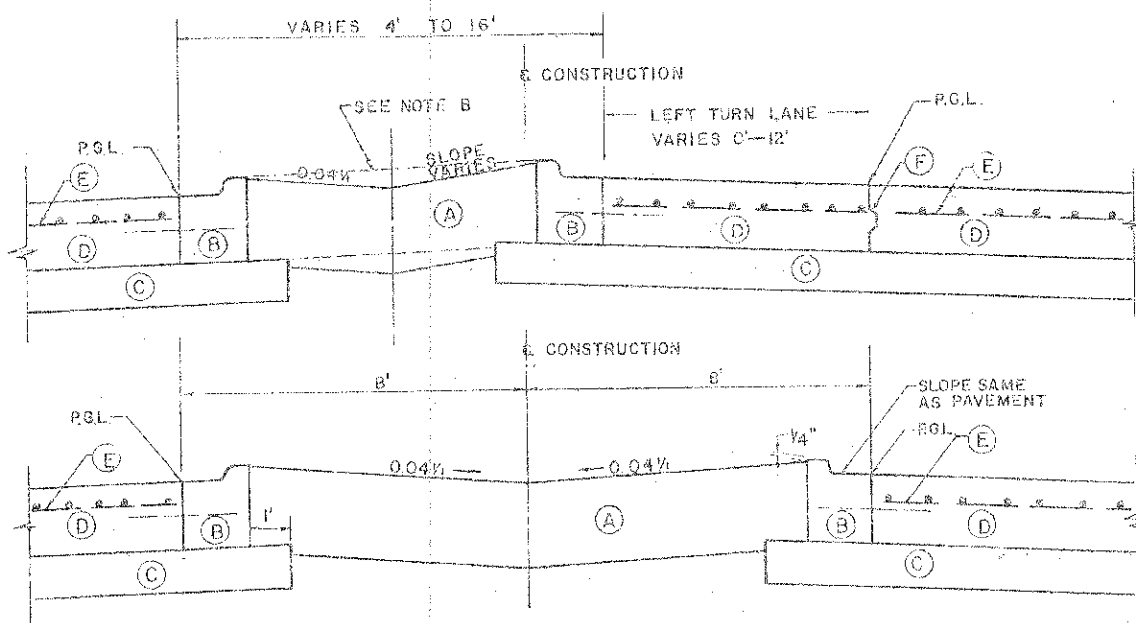
EXISTING BITUMINOUS SURFACE TO BE REMOVED TO
A WIDTH SUFFICIENT TO ENABLE CONSTRUCTION OF
THE MEDIAN, OR AS SHOWN ON THE PLANS AND PAID
FOR AT THE CONTRACT UNIT PRICE BID PER SQUARE
YARD FOR BITUMINOUS SURFACE REMOVAL AND PER
LINEAL FOOT FOR CUTTING BITUMINOUS SURFACE.

THE SURFACE CONFIGURATION FOR TYPE C-4A MEDIAN
IS THE SAME AS TYPE C-4 MEDIAN.

NOTE:
IN LIEU OF CONSTRUCTION JOINTS,
3/4" PREFORMED EXPANSION JOINT FILLER SHALL
BE INSTALLED AT LOCATIONS CONCORDANT WITH
TRANSVERSE JOINTS IN THE EXISTING PAVEMENT.
IF NO JOINTS ARE DISCERNIBLE IN THE EXISTING
PAVEMENT, JOINTS SHALL BE INSTALLED IN MEDIAN
AT 20' INTERVALS OR AS DIRECTED BY
THE ENGINEER.



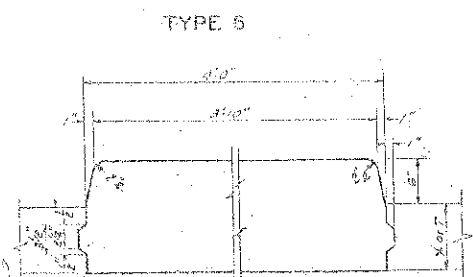
LONGITUDINAL SECTION SHOWING TRANSITION
BETWEEN TYPE C-4 AND BARRIER MEDIAN
TRANSITIONAL AREA IS TO BE PAID FOR AS THE TYPE
OF BARRIER MEDIAN SHOWN ON THE PLANS



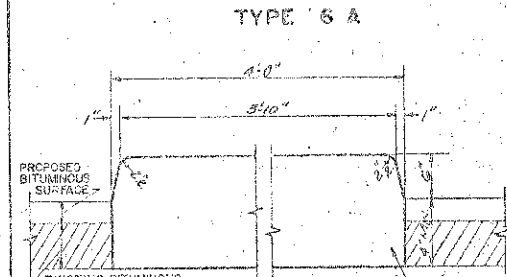
NOTE B: AT LOCATION NOTED ON PLANS
THE MEDIAN SURFACE SHALL BE A STRAIGHT
LINE FROM TOP OF CURB TO TOP OF CURB.

- (A) BITUMINOUS SHOULDERS (12 INCH)
- (B) COMBINATION CONCRETE CURB AND GUTTER, M-2.12
- (C) SUB-BASE GRANULAR MATERIAL, TYPE B (6 INCH)
- (D) PORTLAND CEMENT CONCRETE PAVEMENT (10 INCH)
- (E) PAVEMENT FABRIC
- (F) CONSTRUCTION JOINT (FOR TYPE SEE PLANS)

TYPE M-7



TYPE 5



TYPE 6 A

EXISTING BITUMINOUS SURFACE TO BE REMOVED TO
A WIDTH SUFFICIENT TO ENABLE CONSTRUCTION OF
THE MEDIAN, OR AS SHOWN ON THE PLANS AND PAID
FOR AT THE CONTRACT UNIT PRICE BID PER SQUARE
YARD FOR BITUMINOUS SURFACE REMOVAL AND PER
LINEAL FOOT FOR CUTTING BITUMINOUS SURFACE.

GENERAL NOTES
Dimension "1" is equal to the adjacent pavement edge thickness or base course edge thickness.
Dimension "x" is equal to the adjacent base course edge thickness plus the bituminous surface edge thickness.

The cost of furnishing and placing pavement fabric in the median shall be included in the unit price bid per square foot for CONCRETE MEDIAN, TYPE C-4 and TYPE C-4A respectively.

EXPANSION JOINTS - Shall be of a type similar to that in the adjacent pavement except dowel bars will not be required.

CONSTRUCTION JOINTS - Shall be constructed and sealed in the same manner as the joints in the adjacent pavement, or shall be constructed with a 3/4" preformed expansion joint filler conforming to the full cross-section of the median. Dowel Bars to be omitted in median joints.

The earth work shall be considered as being incidental to Earth Excavation.

Plan views of medians shown are typical. Median layout and radii shall be as shown on the plans. NOT TO SCALE

Medians may vary in width as required on the plans, but regardless of any width variation, shall be measured and paid for at the contract unit price per square foot for concrete median of the type specified.

The vertical edge dimension for Type C-4 Median shall be 10" when constructed adjacent to flexible pavement. Also, keyway shall be omitted and construction joints shall be installed at 20' intervals.

Construction and expansion joints shall be installed in Type C-4 median in proportion with joints in adjacent P.C.C. Pavement. For median adjacent to bituminous surface, construction joints shall be installed at 20' intervals.

Rev. 7-16-79 W.J.W. Revised 5-27-79 W.J.W. Revised 7-8-61 W.J.W.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ISSUED 12-12-62	
PASSED May 29 1975 Engineer of Design Operations	APPROVED May 29 1975 Engineer of Design	REVISIONS	
		W.F. 8-27-68	
		R.F. 1-15-69	
		W.F. 10-1-69	
		D.W. 9-2-73	
		D.W. 10-31-74	
		D.W. 5-29-75	
		D.W. 7-15-77	
		Redrawn 9-27-82	

COUNTY OF COOK DEPARTMENT OF HIGHWAYS			
DETAILS OF CONCRETE MEDIANS			
COMPILED BY DRAUGHTSMAN CHECKED BY W.J.W.	APPROVED BY [Signature]	[Full Size]	

CONTRACT NO. 63629				
County	Year	Sheet	Total	
Cook	1994	181	245	
05-00350-00-CH				

NOTES (SUPPLEMENTAL TO I.D.O.T. STANDARDS)

STANDARDS 60610, 60620 AND 60605 - TYPE A CUTTER, TYPE B GUTTER AND OUTLET FOR CURB AND GUTTER

TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS.

CONCRETE INLETS, ENTRANCES AND OUTLETS FOR GUTTER OR COMBINATION CURB AND GUTTER SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR THE PARTICULAR TYPE OF GUTTER OR COMBINATION CURB AND GUTTER SPECIFIED.

STANDARD 60600 - CURB AND COMBINATION CURB AND GUTTER

VARIABLE CURB TABLE				
TYPE	A	B	C	R
B-V-30	300	50	125	25
B-V-121	121	21	151	11
B-V-15	450	50	125	25
B-V-181	181	21	151	11
B-V-60	600	50	125	25
B-V-241	241	21	151	11

VARIABLE CURB AND GUTTER SHALL BE CONSTRUCTED WITH THE HEIGHT OF CURB VARYING BETWEEN 100 mm (4 IN.) AND 225 mm (9 IN.) AS REQUIRED. THE TOP OF CURB ELEVATION SHALL BE DETERMINED BY THE ENGINEER.

LONGITUDINAL JOINT TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS. AT THE CONTRACTOR'S OPTION, TIE BARS MAY BE BENT AT RIGHT ANGLES AGAINST THE EDGE OF THE CONCRETE PAVEMENT AND STRAIGHTENED INTO FINAL POSITION BEFORE THE CURB AND GUTTER IS PLACED, SUBJECT TO THE APPROVAL OF THE ENGINEER.

WHERE EXISTING CURB AND GUTTER IS TO BE REMOVED AND REPLACED ADJACENT TO EXISTING CONCRETE PAVEMENT REMAINING IN PLACE, THE CONTRACTOR SHALL PERFORM THE REMOVAL SO THAT THE EXISTING TIE BARS CAN BE USED IN TYING THE NEW CURB AND GUTTER TO THE EXISTING PAVEMENT. ANY TIE BARS WHICH ARE DAMAGED OR MISSING SHALL BE REPLACED WITH NO. 20 (NO. 6) TIE BARS, 600 mm (24 INCHES) LONG, EMBEDDED 200 mm (8 INCHES) AT 600 mm (24 INCH) CENTERS IN ACCORDANCE WITH THE ARTICLE 420.10 (B) OF THE STANDARD SPECIFICATIONS. THE COST OF FURNISHING AND INSTALLING THE TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PARTICULAR TYPE OF CURB AND GUTTER SPECIFIED.

THE DEPTH OF THE CURB OR COMBINATION CURB AND GUTTER SHALL BE EQUIVALENT TO THE DEPTH OF THE ADJACENT PAVEMENT, REGARDLESS OF PAVEMENT COMPOSITION.

STANDARD 353001 - PCC BASE WITH HOT MIX ASPHALT BINDER AND SURFACE COURSE

TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS.

STANDARD 420001 - PAVEMENT JOINTS

JOINTS AND REINFORCEMENT BARS SHALL BE PLACED IN ACCORDANCE WITH THE P.C. CONCRETE PAVEMENT DETAIL SHOWN ON THIS SHEET.

LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET. AT THE CONTRACTOR'S OPTION, TIE BARS MAY BE BENT AT RIGHT ANGLES AGAINST THE TYPE C METAL JOINT AND STRAIGHTENED INTO FINAL POSITION BEFORE THE ADJACENT CONCRETE PAVEMENT POUR, SUBJECT TO THE APPROVAL OF THE ENGINEER.

TIE BARS SHALL BE NO. 15 (NO. 5).

TRANSVERSE SAWED CONTRACTION JOINTS, TRANSVERSE CONSTRUCTION JOINTS AND JOINTS AT CONTRACT TERMINALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS SHEET.

STANDARD 420701 - PAVEMENT FABRIC

PAVEMENT FABRIC DEPTH SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.

DISREGARD ALL DETAILS AND NOTES REGARDING PAVEMENTS BLOCK-OUTS, AND COMPLY WITH STANDARD 42011-P.C.C. PAVEMENT ROUNDOUTS AT ALL DRAINAGE/UTILITY STRUCTURE LOCATIONS.

STANDARD 442101 - CLASS B PATCHES

IF A SAWED LONGITUDINAL JOINT IS REQUIRED, TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS.

STANDARD 442201 - CLASS C AND D PATCHES

CLASS C PATCHES SHALL BE TIED TO THE EXISTING PAVEMENT ALONG ALL SIDES OF THE PATCH WITH NO. 20 (NO. 6) TIE BARS, 600 mm (24 INCHES) LONG, EMBEDDED 200 mm (8 INCHES) AT 600 mm (24 INCH) CENTERS IN ACCORDANCE WITH ARTICLE 420.10 (B) OF THE STANDARD SPECIFICATIONS. MINIMUM 3 BARS ON EACH SIDE. THE COST OF FURNISHING AND INSTALLING THE TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR CLASS C PATCHES.

ALL GUARDRAIL AND TRAFFIC BARRIER TERMINAL STANDARDS

HOT MIX ASPHALT SHOULDERS 150 mm (6 IN.) SHALL BE PLACED UNDERNEATH THE ENTIRE LENGTH OF ALL PROPOSED GUARDRAIL AND TRAFFIC BARRIER TERMINALS AND EXTEND 0.6 (12 FT.) BEYOND THE TERMINAL ENDS. THE WIDTH OF THE SHOULDER SHALL EXTEND ONE FOOT BEYOND EITHER SIDE OF THE POSTS FOR THE GUARDRAIL AND TRAFFIC BARRIER TERMINALS AND AS SHOWN ON THE PLANS. EARTH ELEVATION NECESSARY FOR PLACEMENT OF THE SHOULDER SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR HOT MIX ASPHALT SHOULDER, 11-19.8, 130.5 (16).

NOTE:
THE INTENT OF THIS STANDARD IS TO REFLECT ADDITIONS OR VARIATIONS TO I.D.O.T. STANDARDS CONTAINED IN THE PLANS. THIS STANDARD SHALL GOVERN OVER THE I.D.O.T. STANDARDS.

DETAIL NOTES
SEE I.D.O.T. STANDARDS FOR DETAILS NOT SHOWN.
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
ALL TIE BAR SIZES ARE METRIC (STANDARD)
t = PAVEMENT THICKNESS

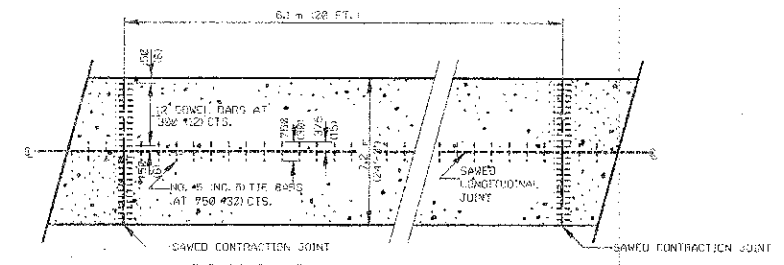
REVISED AUG. 2007 (HOT MIX ASPHALT SHOULDERS)
REVISED OCT. 2004 (GUARDRAIL BARRIER CONTRACT JT. DETAILS)
REVISED SEPTEMBER 2004 (12 FT. SAWED CONTRACTION JOINT)

REVISED JUNE 1994 (SAWED CONTRACTION JOINT)
REVISED FEB. 2000
REVISED NOVEMBER 2002

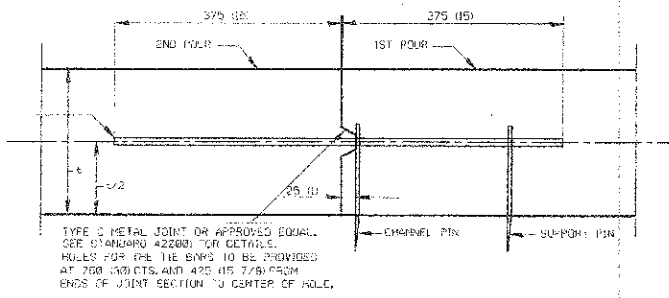
COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

DETAILS AND NOTES FOR CONSTRUCTION OF PAVEMENT AND PAVEMENT APPURTENANCES (SEE PARTIAL TO I.D.O.T. STANDARDS)

DATE: 8/17/2012
DRAWN: DJK
CHECKED: DJK

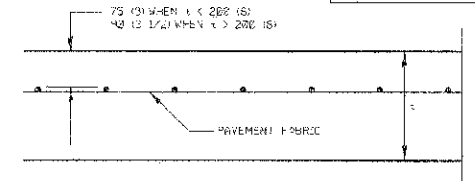


P.C. CONCRETE PAVEMENT DETAIL
SEE I.D.O.T. STANDARDS 20001 AND 42071 FOR ADDITIONAL DETAILS

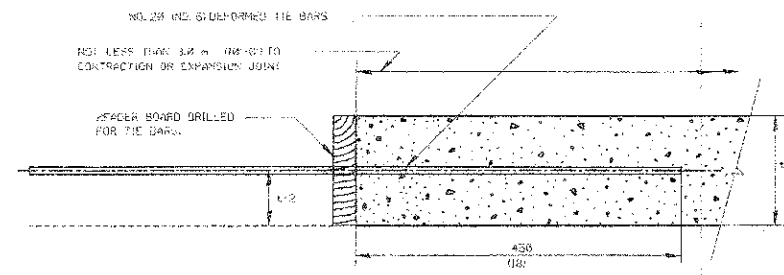


LONGITUDINAL CONSTRUCTION JOINT DETAIL
TYPE A - INSTALL TIE BARS
TYPE B - OMIT TIE BARS

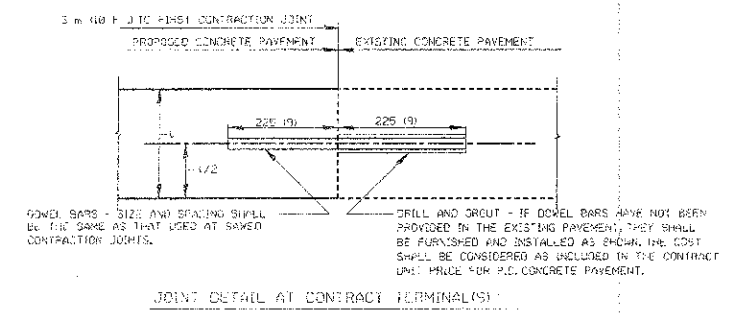
NOTE: PAVEMENT FABRIC SHALL BE OMITTED PER CHD COMMENTS



PAVEMENT FABRIC DETAIL
SEE I.D.O.T. STANDARD 42071 FOR ADDITIONAL DETAILS



TRANSVERSE CONSTRUCTION JOINT DETAIL



JOINT DETAIL AT CONTRACT TERMINAL(S)

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USER NAME = djc
PLOT SCALE = 20.0000 / 1x
PLOT DATE = 8/17/2012

DESIGNED - KRK
DRAWN - KRK
CHECKED - DJK
DATE - 8-20-12

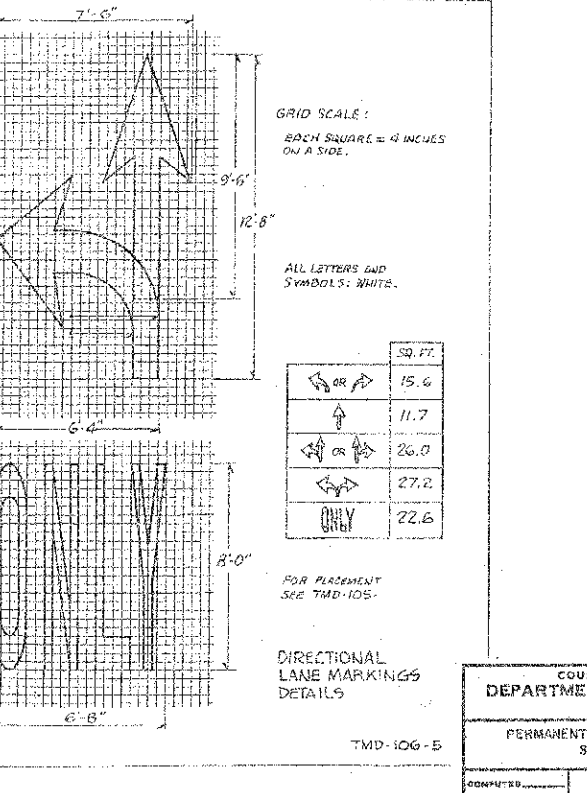
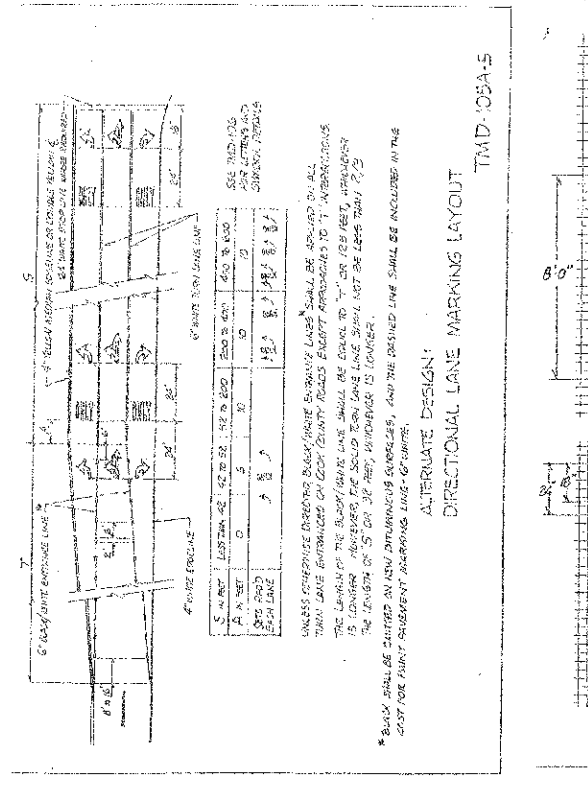
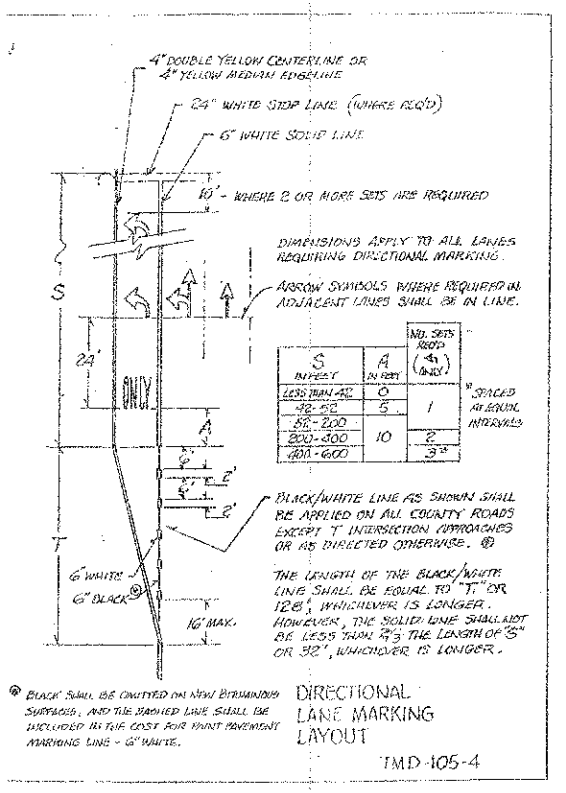
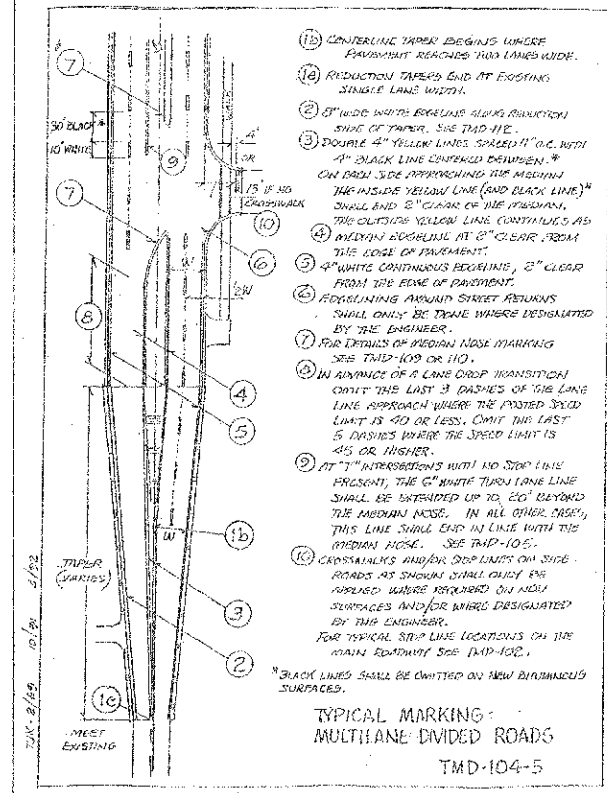
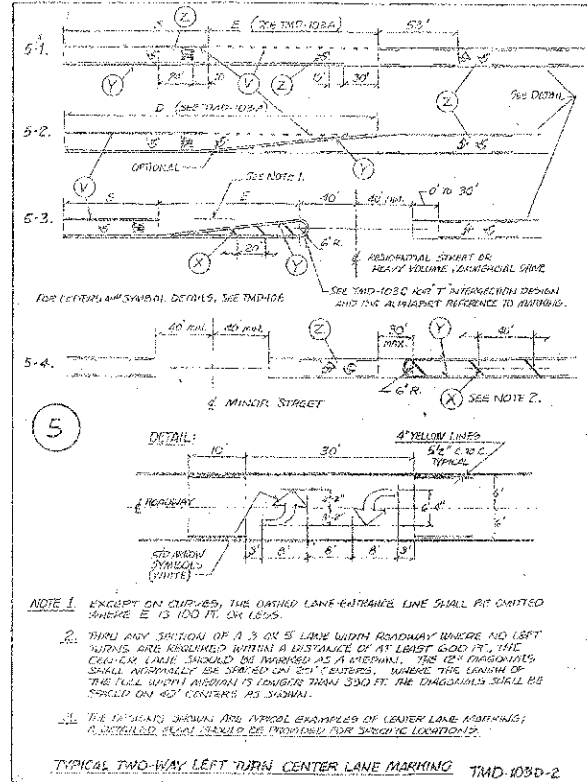
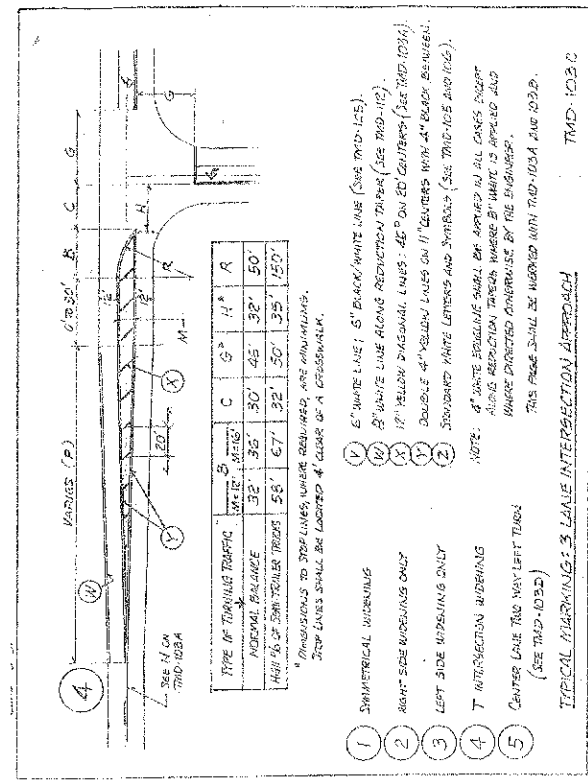
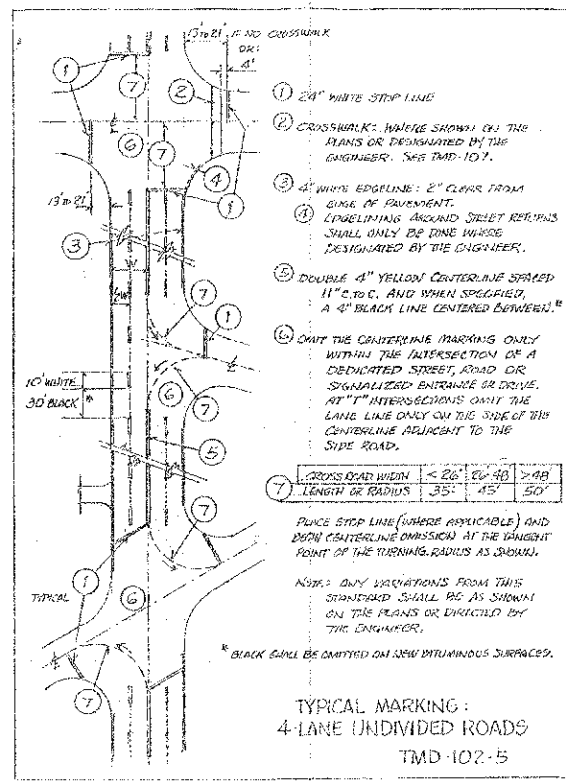
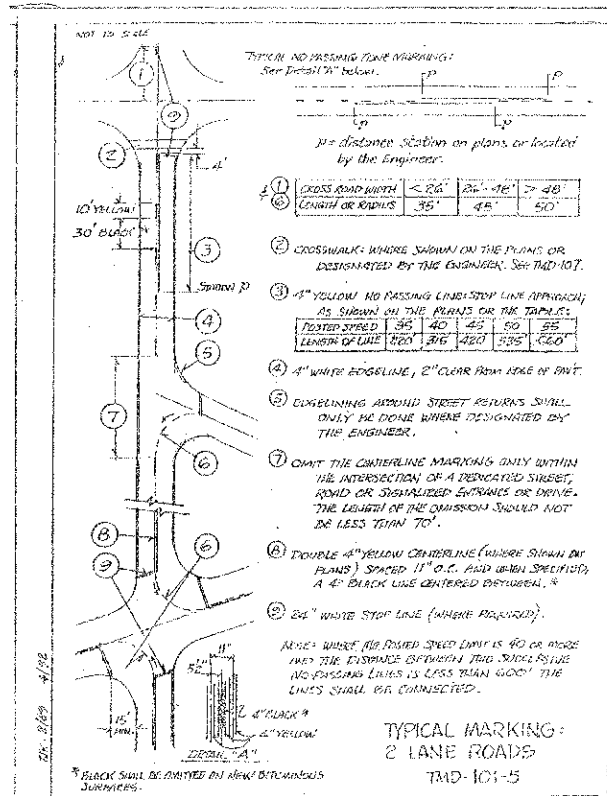
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD AND SCHAUMBURG ROAD
DETAILS

SCALE: SHEET NO. 6 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	181
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-CUM-8003063				



County	Project	Sheet No.	Total Sheets

County	Project	Sheet No.	Total Sheets

FILE NAME =	USER NAME = djk	DESIGNED - KRK	REVISED -
...\\2329\road\sheet\2329_DET_03.dgn		DRAWN - KRK	REVISED -
		CHECKED - DJK	REVISED -
		DATE - 8-20-12	REVISED -

DESIGNED - KRK	REVISED -
DRAWN - KRK	REVISED -
CHECKED - DJK	REVISED -
DATE - 8-20-12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD AND SCHAMBURG ROAD
DETAILS

SCALE: SHEET NO. 7 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT W-CMM-800305D				

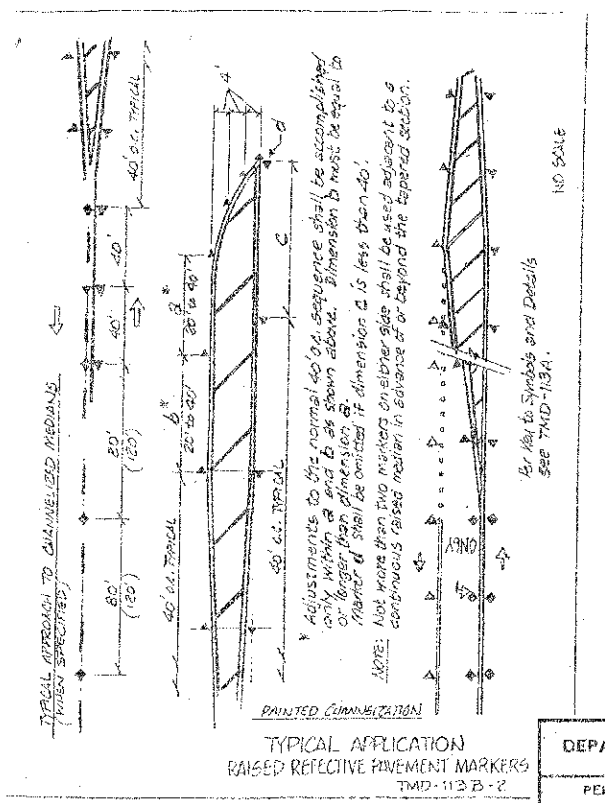
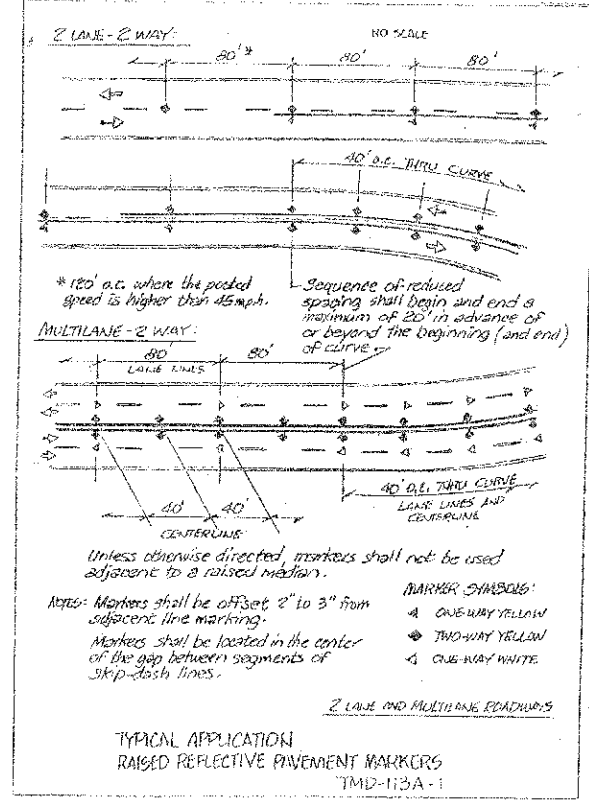
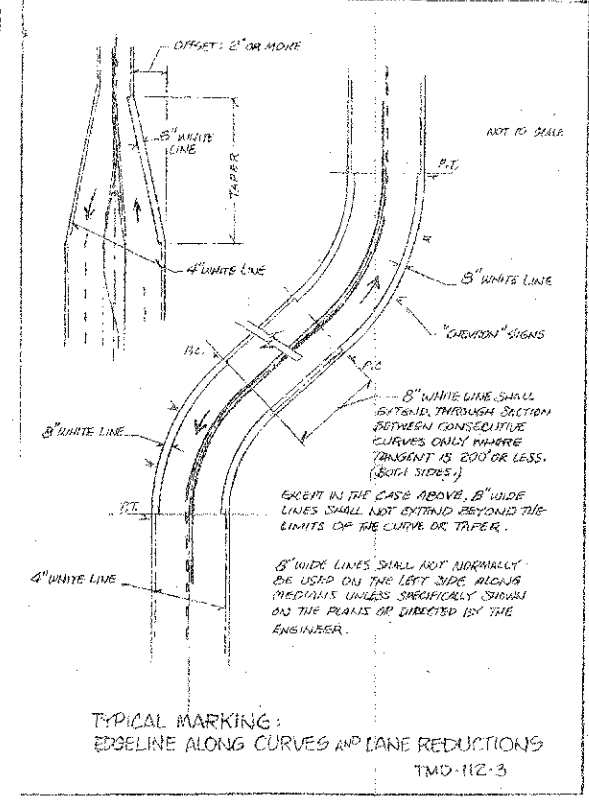
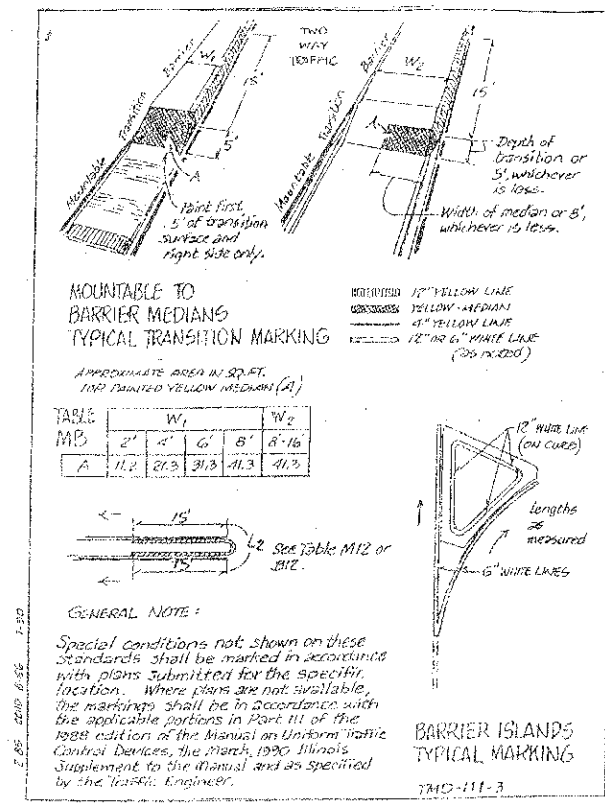
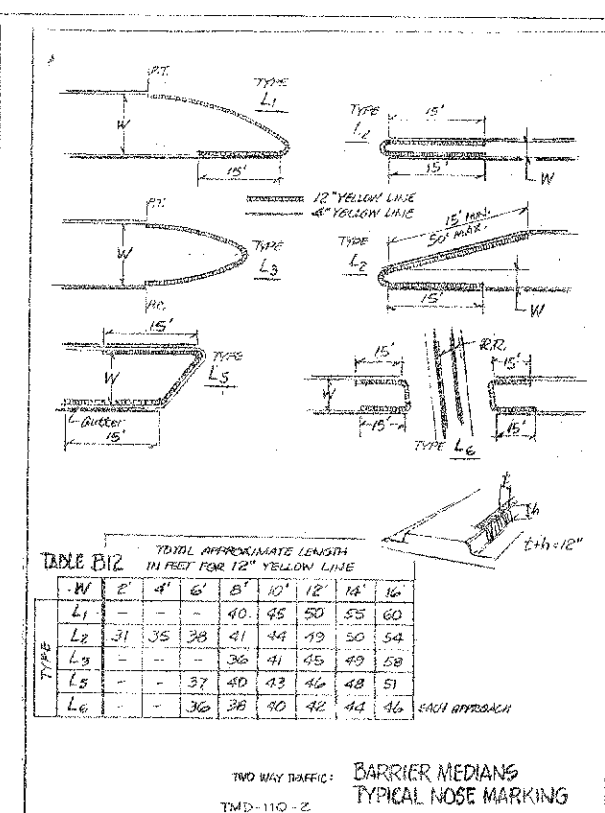
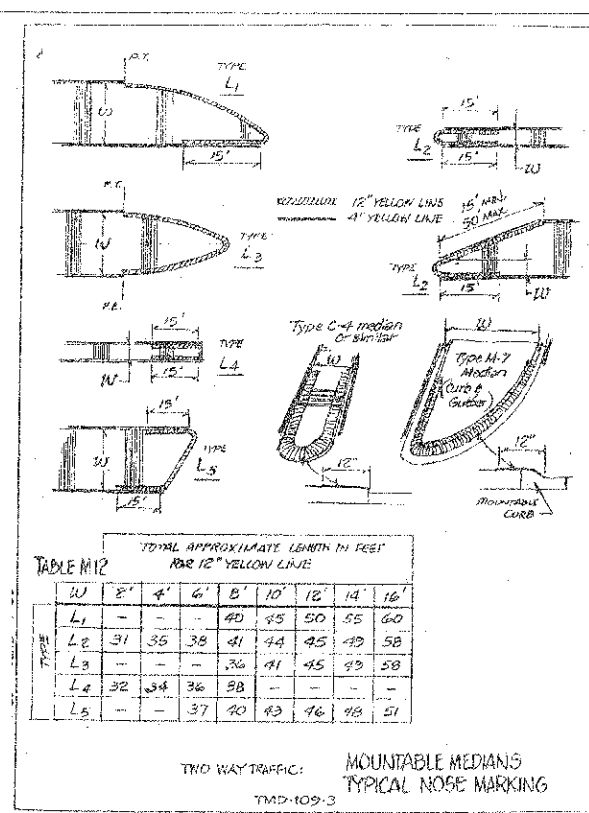
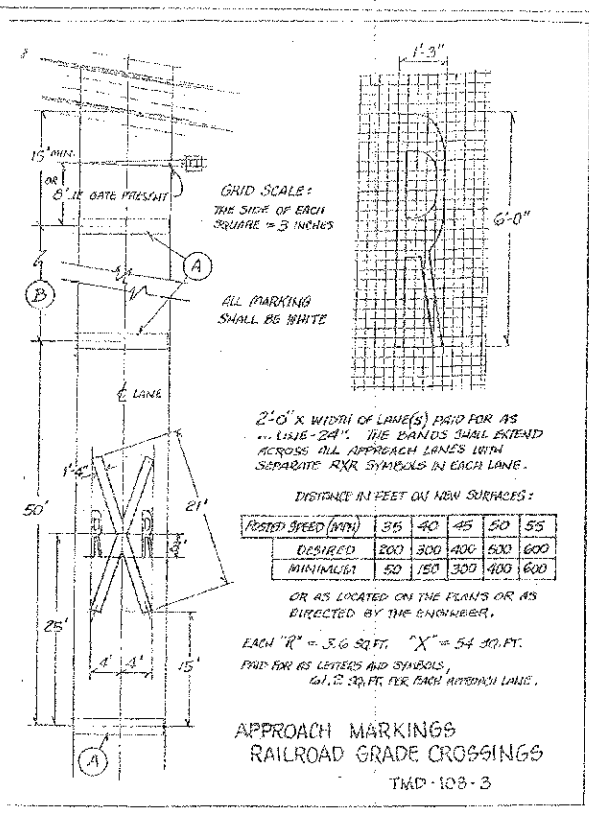
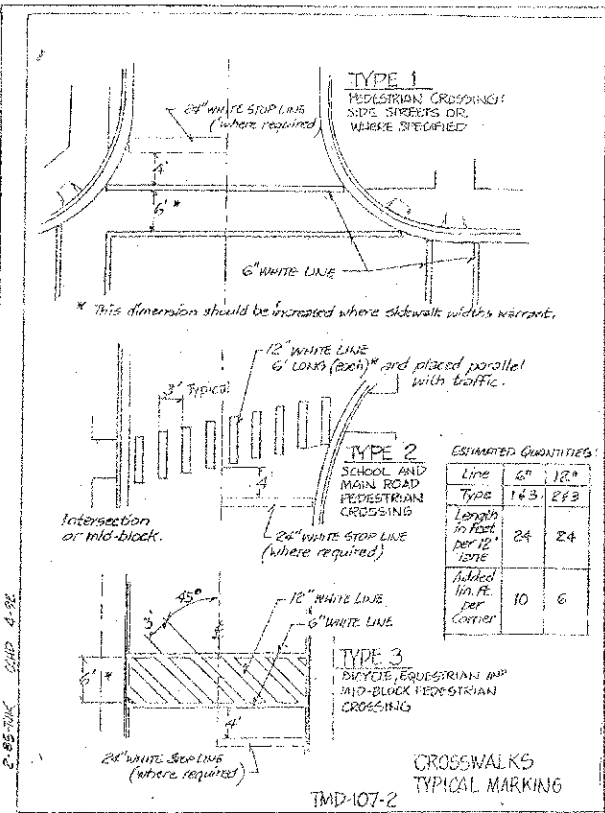
NOTE: DETAIL APPLIES TO SCHAMBURG ROAD ONLY.

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

PERMANENT PAVEMENT MARKING STANDARDS (SHEET OF 2)

APPROVED: _____

DATE: _____

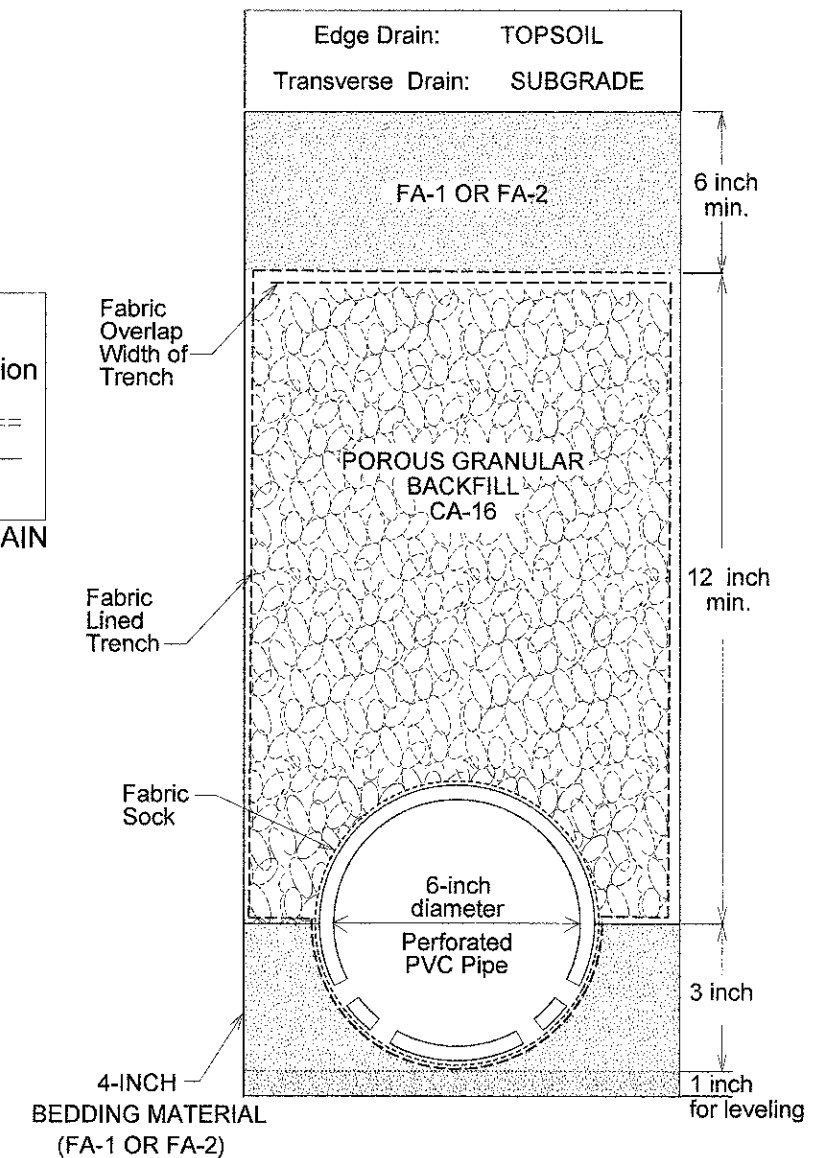
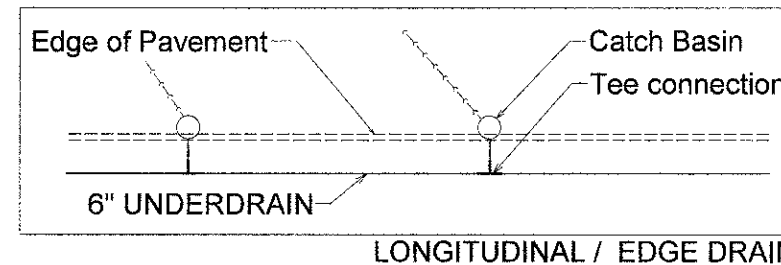
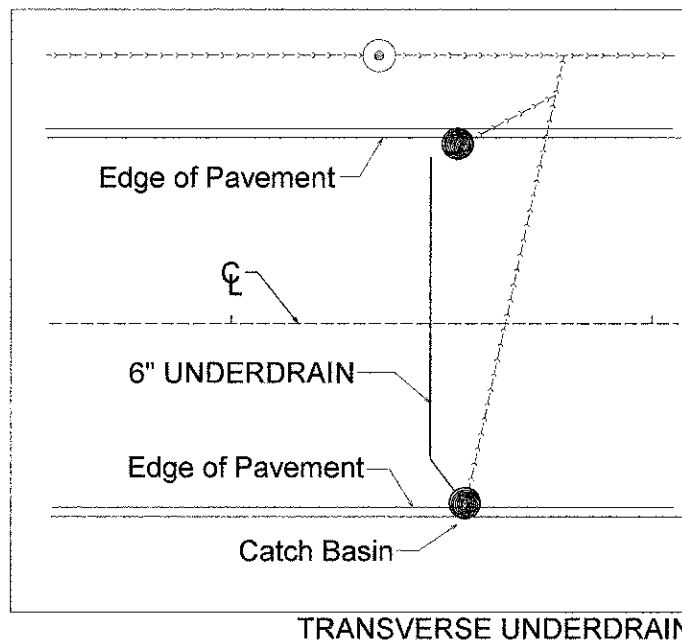


COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

PERMANENT PAVEMENT MARKING
STANDARDS
(SHEET 2 OF 2)

COMPUTED: _____ APPROVED: _____
DRAWN: _____
CHECKED: _____

NOTE:
DETAIL APPLIES TO SCHAUMBURG ROAD ONLY.



NOTE:

The underdrain shall be installed in accordance with Special Provision for PIPE UNDERDRAINS.

The trench shall be cut to the dimensions shown unless otherwise directed by the Engineer.

Bedding material shall be placed in the bottom of trench to allow for leveling of the pipe and then placed to springline of pipe.

The trench shall be lined with geotechnical fabric in accordance with Articles 601.06 and 1080.05 of the IDOT Specifications. Both sides of the fabric shall overlap at the top full width of the trench.

The pipe sections shall be joined securely with the appropriate coupling fittings or bands. The perforated PVC pipe shall be placed with perforations down. The pipe shall be encased in a geotechnical fabric sock.

The trench shall be backfilled with washed CA-16.

The Engineer is to determine the location of all underdrain outfalls. When required a tee connection shall be used as shown on the detail.

In areas where the road profile is relatively flat and no definite low point in the profile occurs, outlets shall be provided to every drainage structure along its length for edge drains and to the nearest catchbasin for transverse underdrains as shown in the above details.

The invert of the pipe underdrain shall be higher than the connection to the outfall drainage structure to provide positive drainage flow through the pipe.

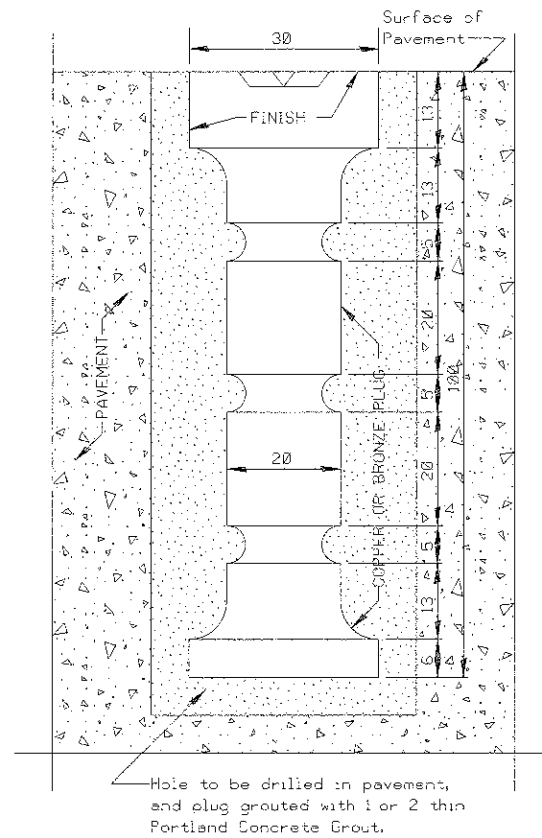
The bedding material, porous granular backfill, filter fabric, and tee connections will not be paid for separately but shall be considered incidental to the unit price per linear FOOT for PIPE UNDERDRAINS, PERFORATED POLYVINYL CHLORIDE (PVC) PIPE, 6 INCHES.

NOT TO SCALE

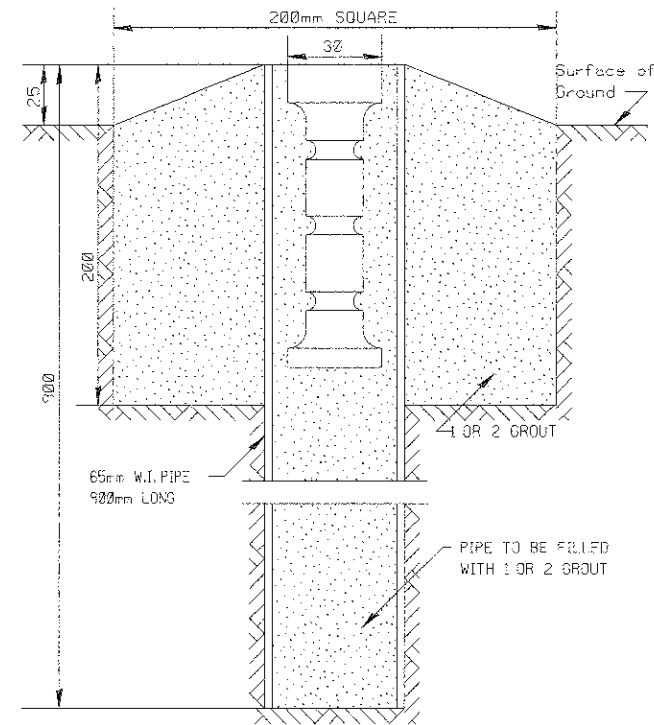
REVISION		STANDARD D-70	
DATE	COMMENT	COUNTY OF COOK DEPARTMENT OF HIGHWAYS	
04-06-12 - MK	Backfill CA-16 Bedding FA-1 or FA-2	PERFORATED (PVC) PIPE 6 INCH UNDERDRAIN	
08-13-12 - MK	Refer to SP Pipe Underdrains		
		COMPLETED MAL	APPROVED February 25, 2010
		DRAWN MAL	
		CHECKED SDR	ROBERT F. MACK P.E., CFM MANAGER AND V.P. TRAFFIC DESIGN GROUP

COUNTY	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
X	X	X	X

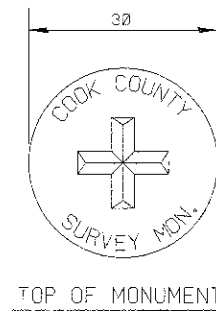
SECTION: XX-XXXXX-XX-XX



DETAIL FOR PLACING MONUMENT IN PAVEMENT



DETAIL FOR PLACING MONUMENT WHEN LOCATED OUTSIDE OF PAVEMENT



ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

NOT TO SCALE

COUNTY OF COOK DEPARTMENT OF HIGHWAYS	
DETAIL OF SURVEY MONUMENT	
COMPUTED BY: K.L.P.	
DRAWN BY: G.D.S.	
CHECKED BY: K.L.P.	

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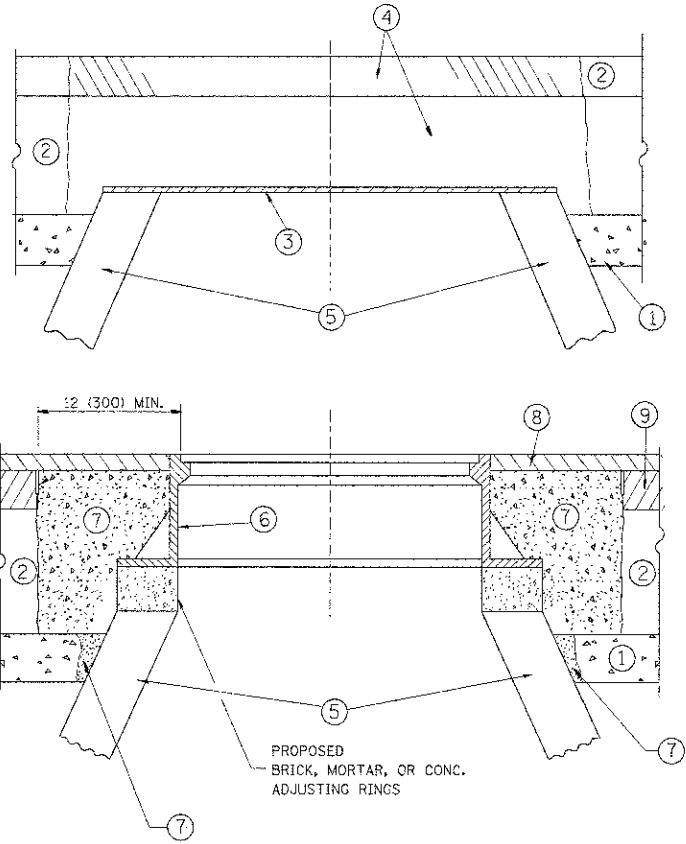
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD AND SCHAUMBURG ROAD
DETAILS

SCALE: SHEET NO. 10 OF 10 SHEETS STA. TO STA.

F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 185
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(05)				



CONSTRUCTION PROCEDURES

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

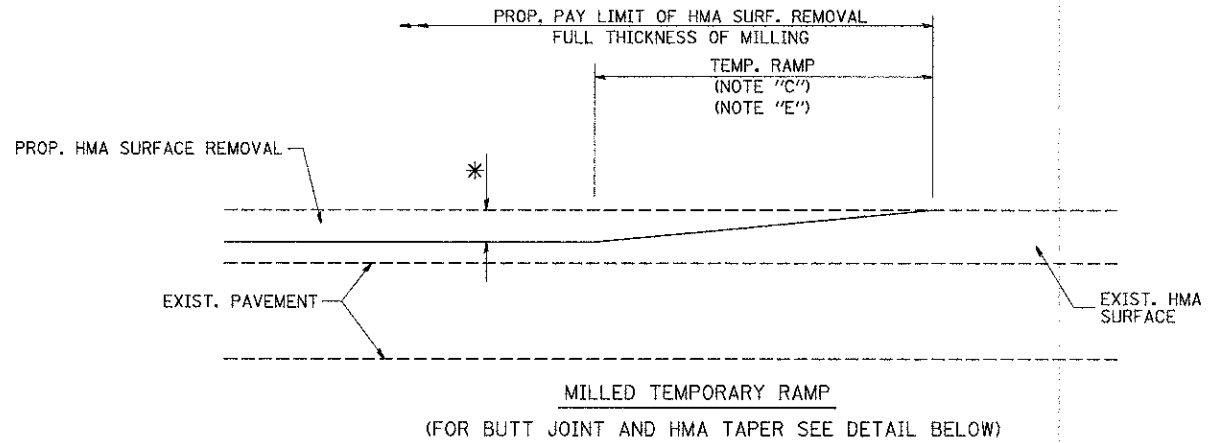
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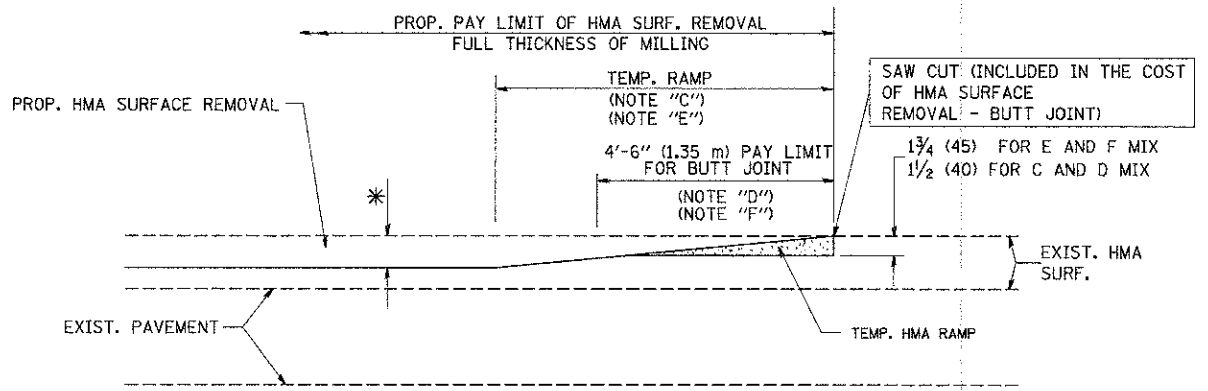
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.D. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 186
BD680-03 (BD-8)		CONTRACT NO. 63629		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-CMM-8003(051)				

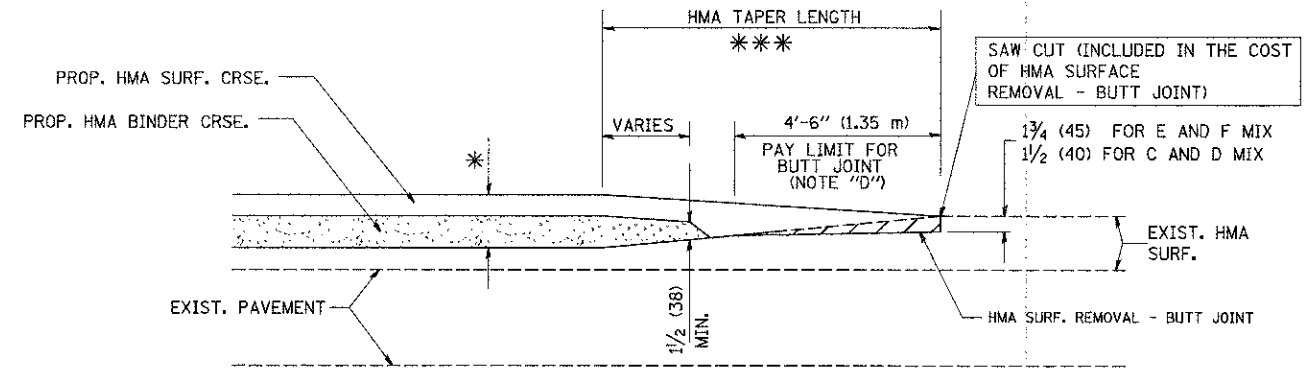


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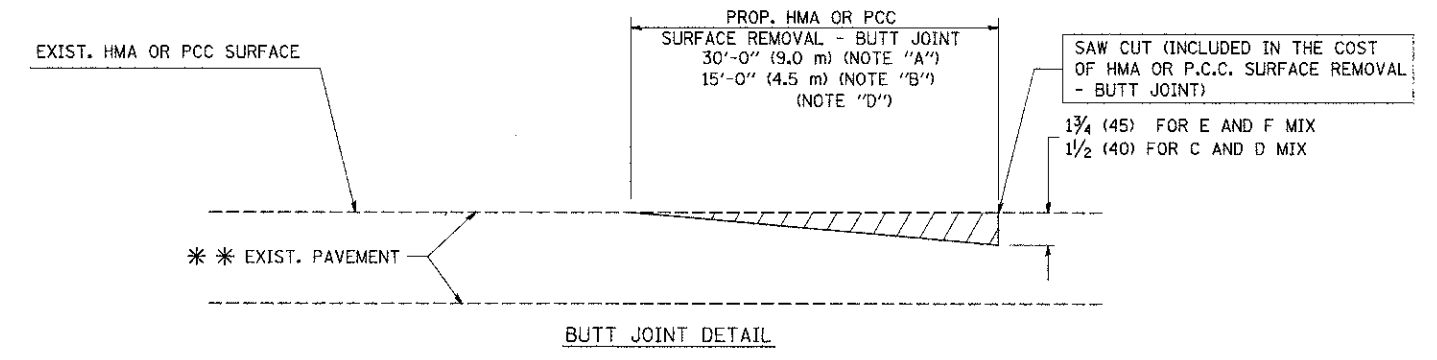


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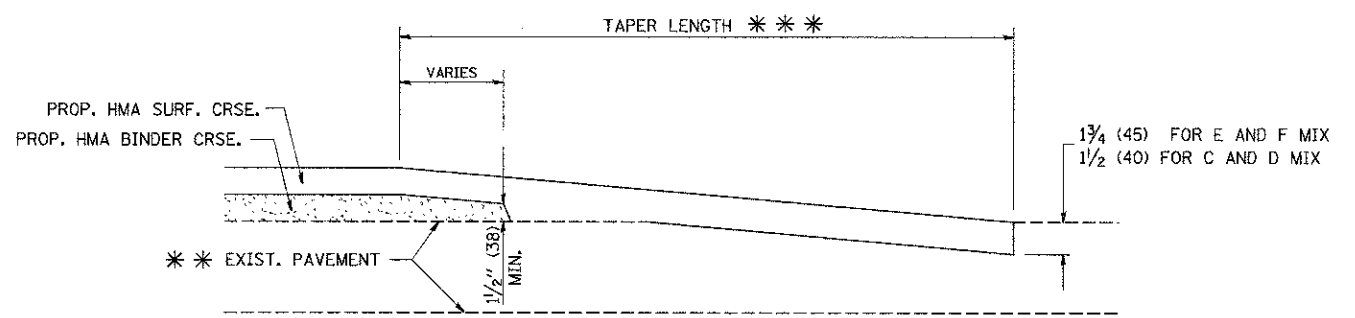
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

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

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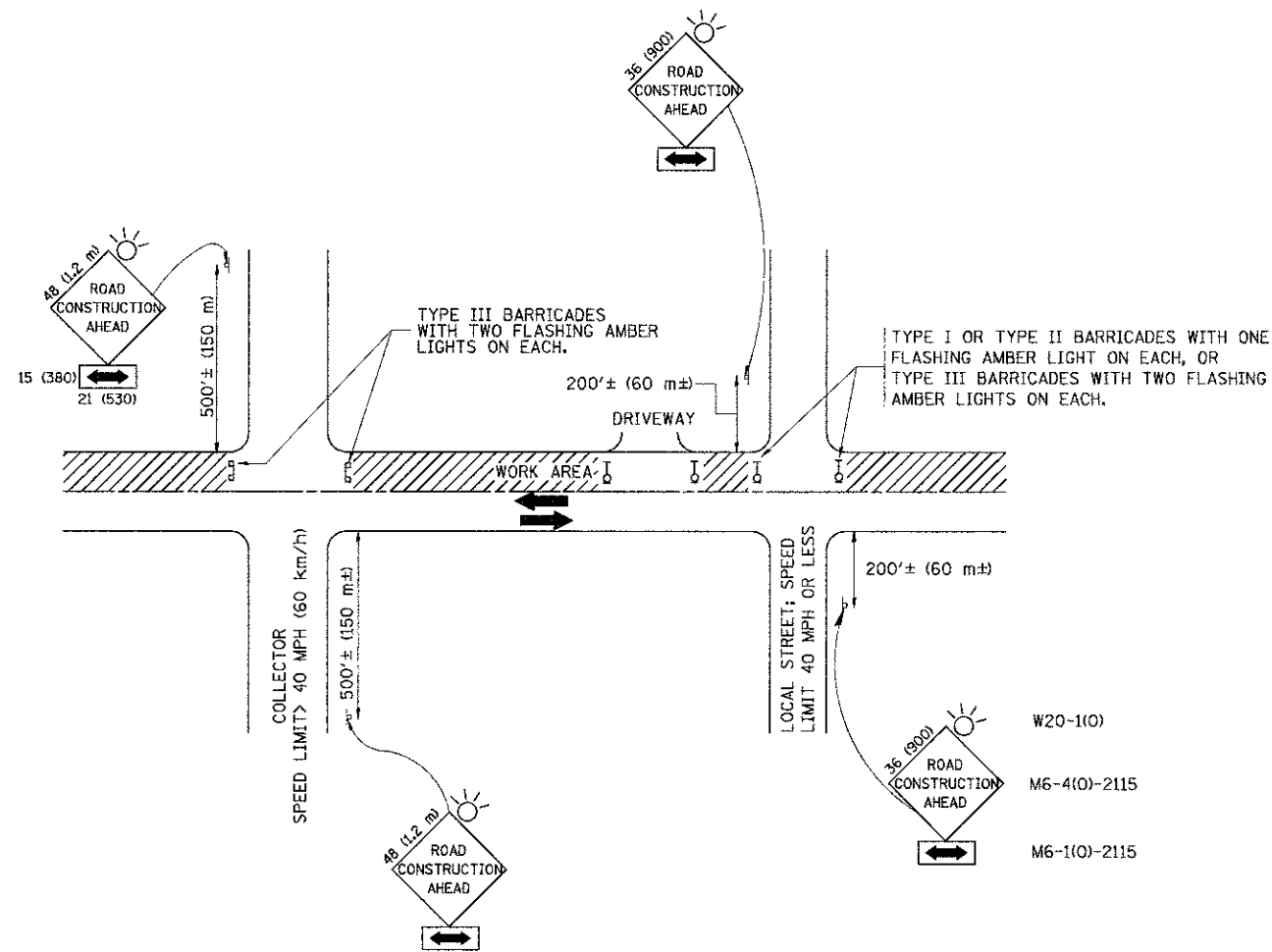
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	REVISD - R. BORO 01-01-07

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	REVISD - 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. RATE: 1322	SECTION: 01-00074-00-CH	COUNTY: COOK	TOTAL SHEETS: 245	SHEET NO.: 187
BD400-05 BD32		CONTRACT NO. 63629		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- 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:
 - 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.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
 - 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.

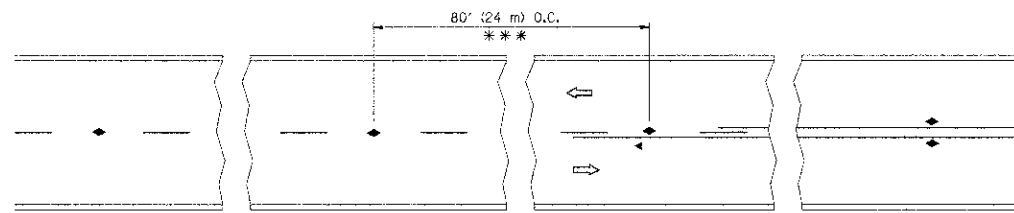
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

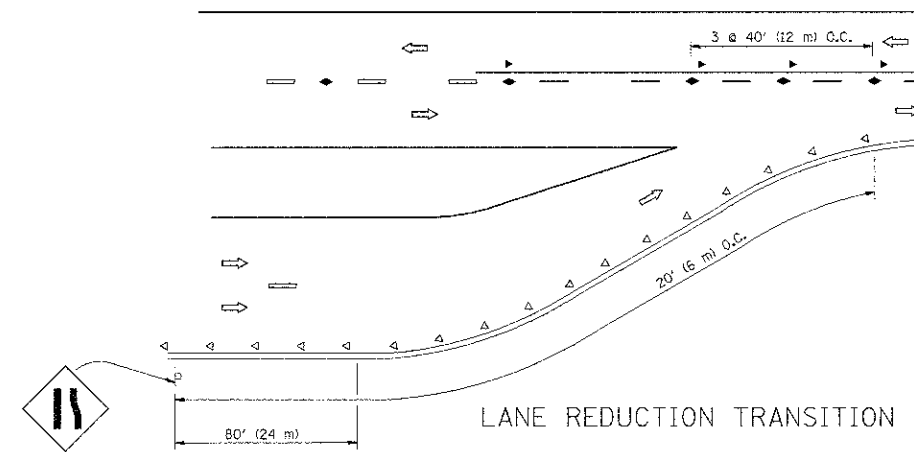
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TC-10			CONTRACT NO. 63629	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				

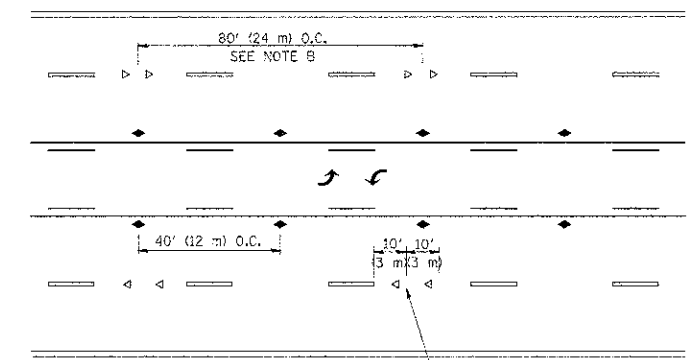


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

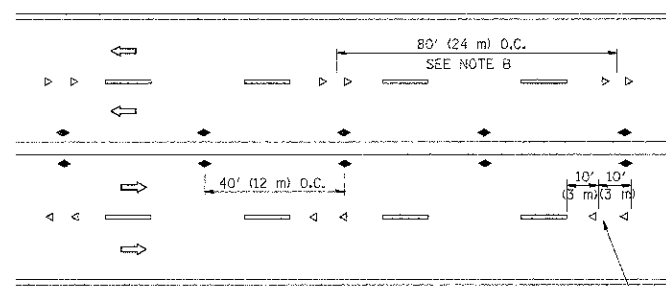
TWO-LANE/TWO-WAY



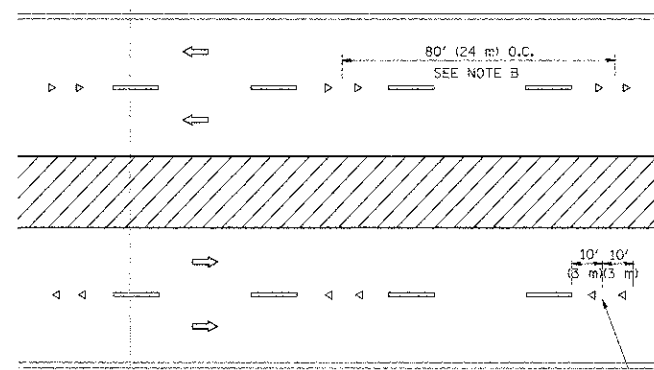
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (60 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

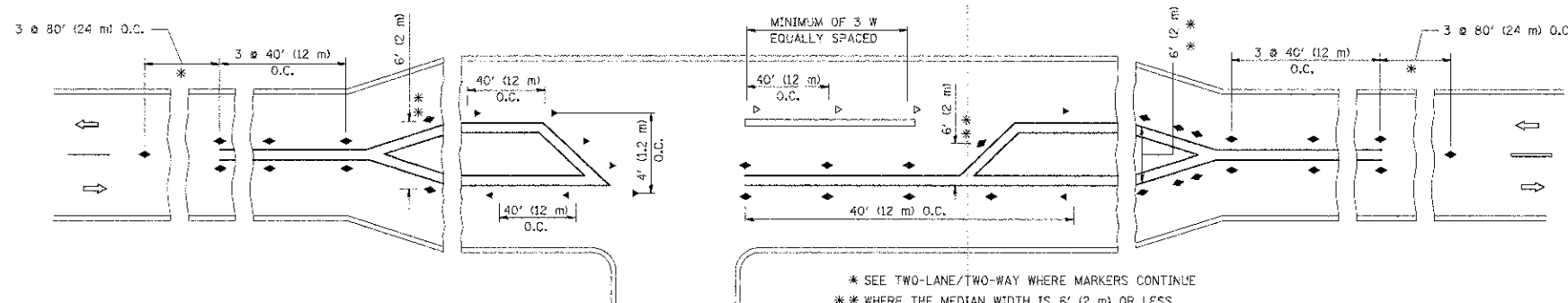
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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

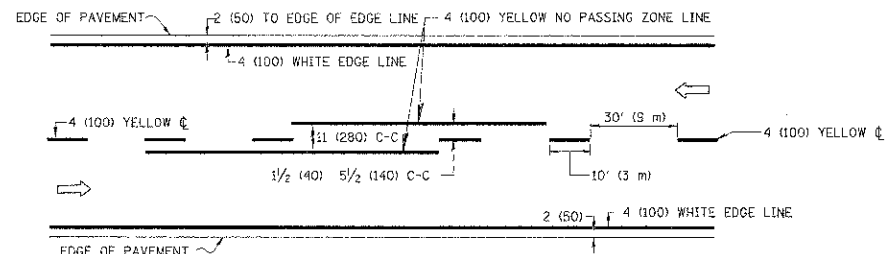


LEFT TURN

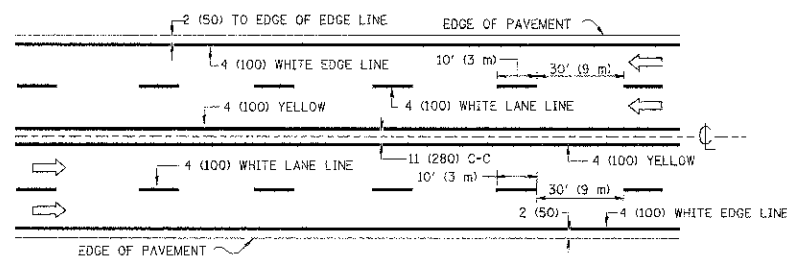
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

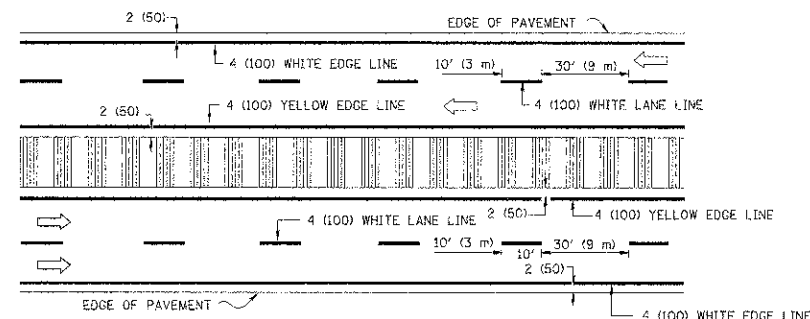
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PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-6003(051)		



2-LANE ROADWAY



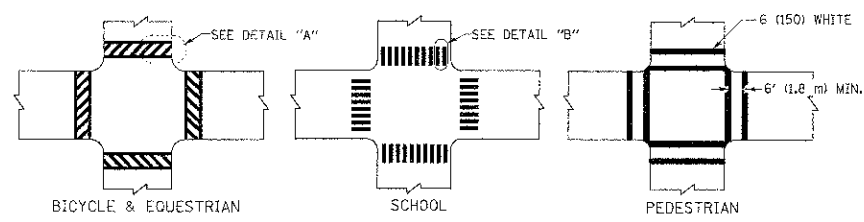
MULTI-LANE UNDIVIDED



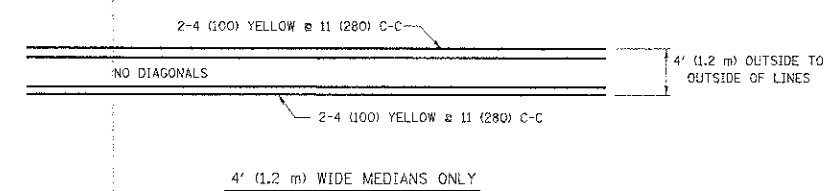
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

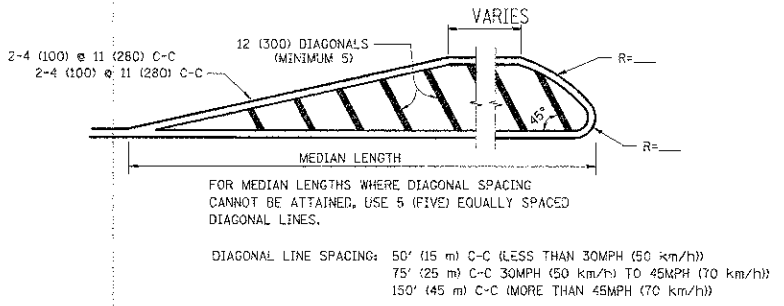
TYPICAL LANE AND EDGE LINE MARKING



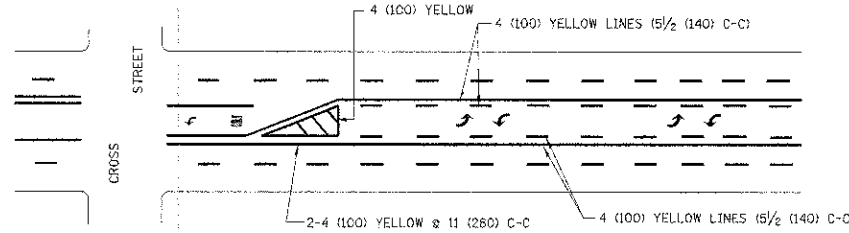
TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY

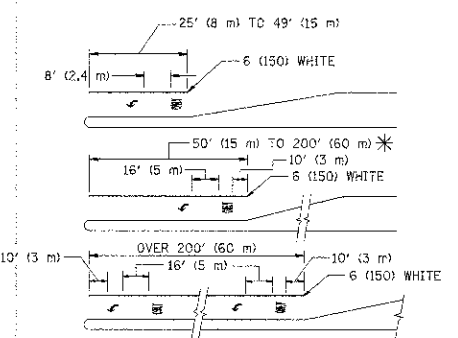


MEDIANS OVER 4' (1.2 m) WIDE



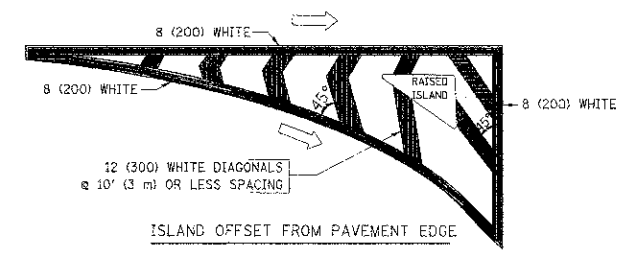
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

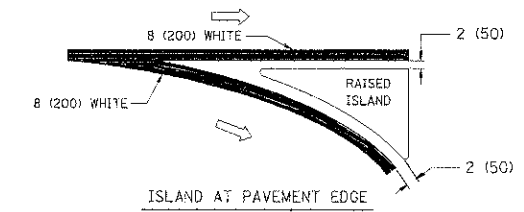


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



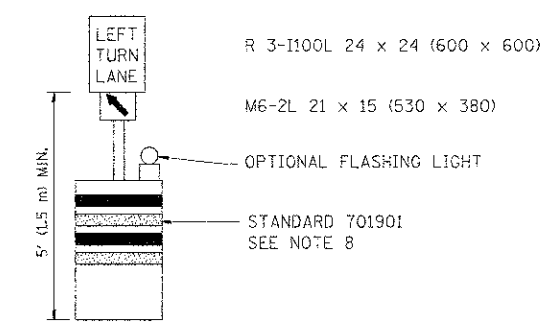
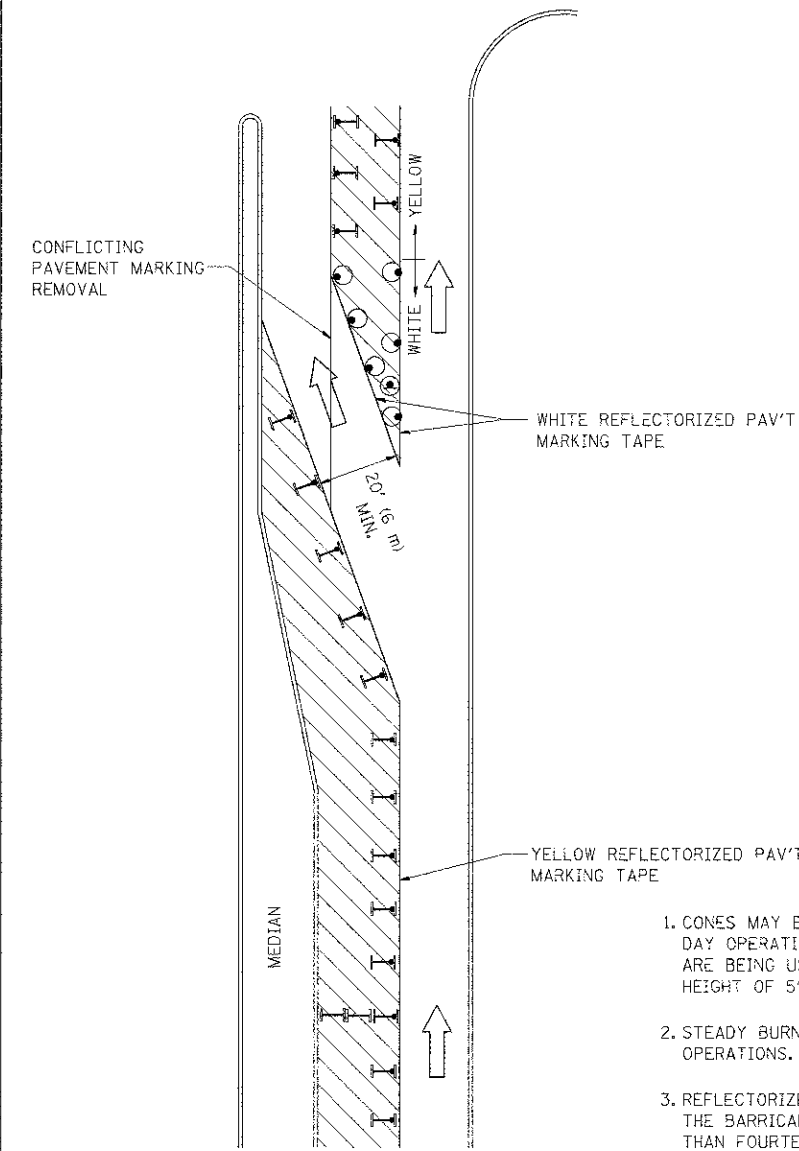
ISLAND AT PAVEMENT EDGE

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	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (6' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	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
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
A. DIAGONALS (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
B. LONGITUDINAL BARS (SCHOOL)	12 (300) @ 90°	SOLID	WHITE	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°	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: "RR"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

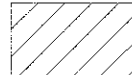







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

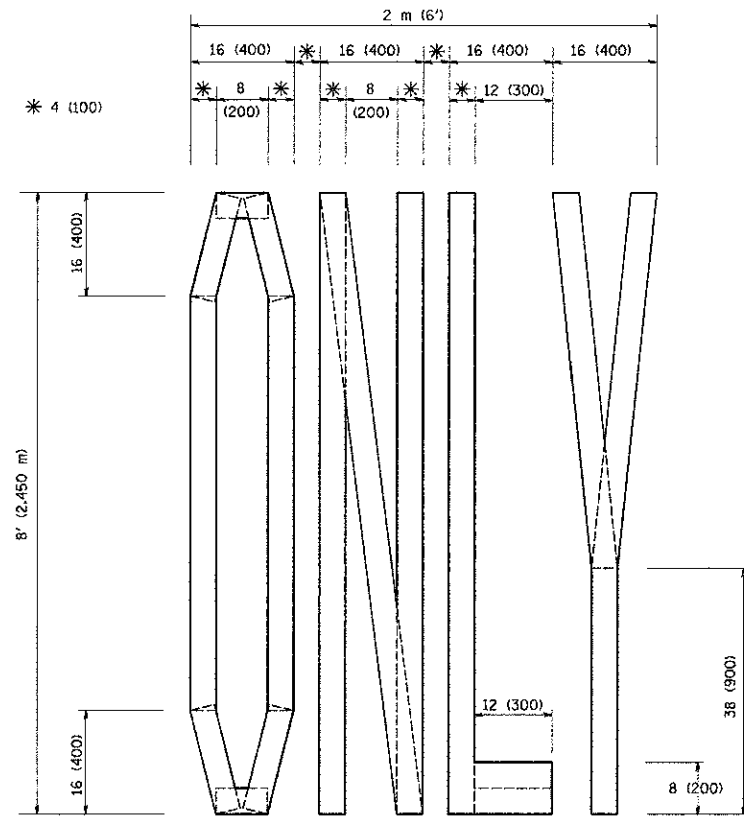
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...	...	REVISED - A. HOUSEH 11-07-95	REVISED -
...	...	REVISED - A. HOUSEH 10-12-96	REVISED -
...	...	REVISED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

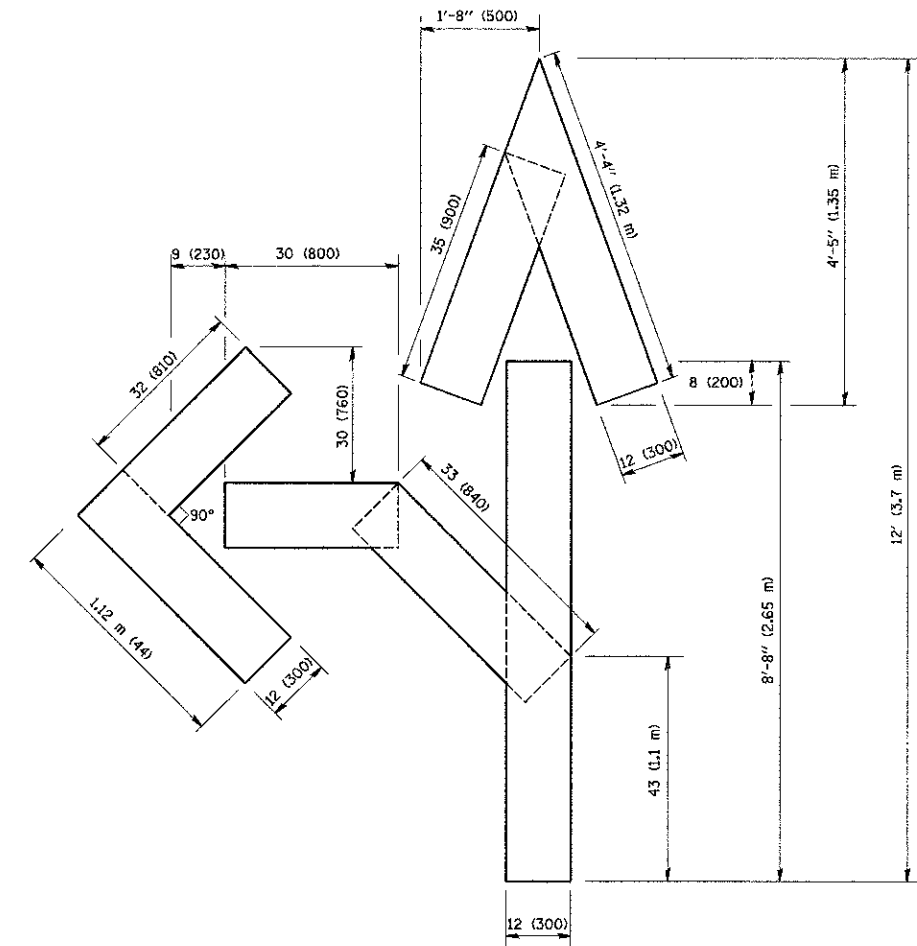
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

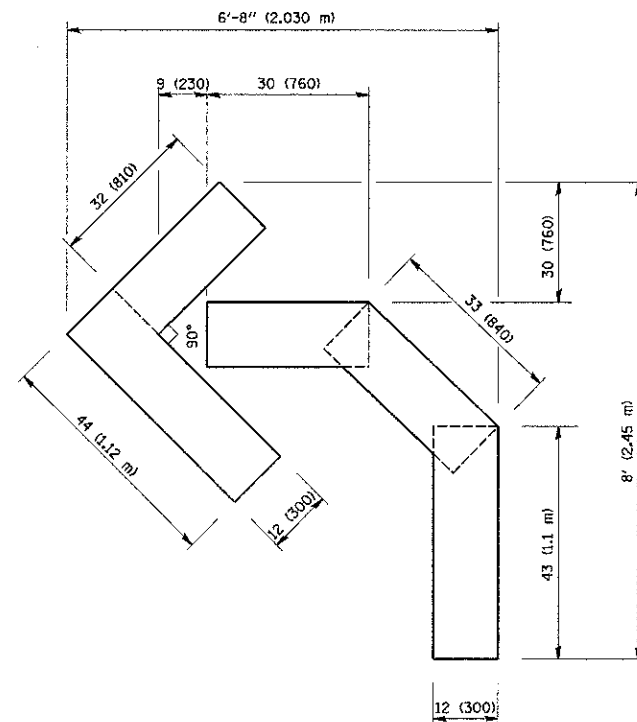
F.A.U. RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-0074-00-CH	COOK	245	191
TC-14		CONTRACT NO. 63629		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				



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



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



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

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

FILE NAME =	USER NAME = geglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
W:\data\td\22x34\td16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
		CHECKED -	REVISED -T. RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	192
TC-16			CONTRACT NO. 63829	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

CARDINAL DIRECTION & DETOUR SIGNS

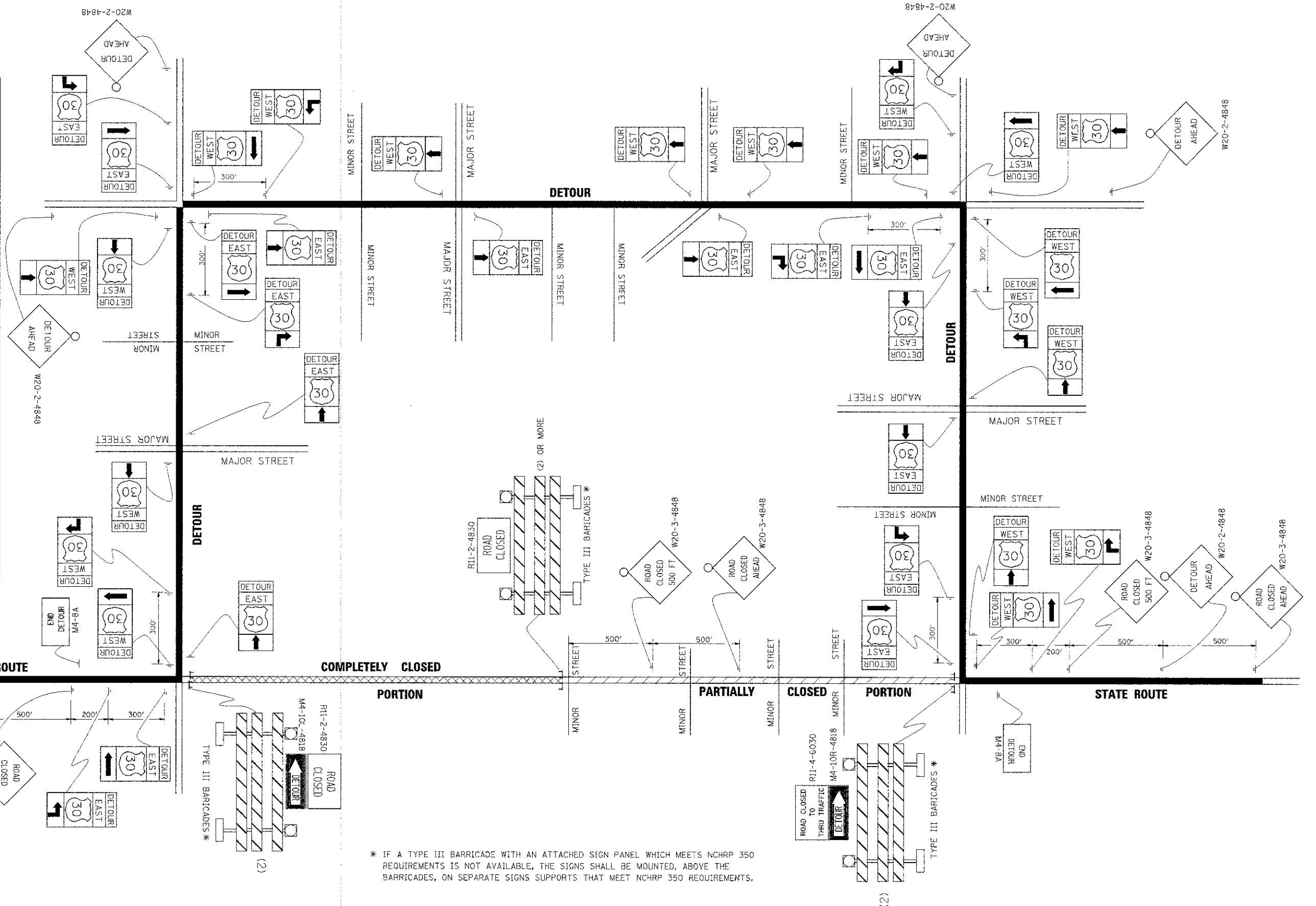
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

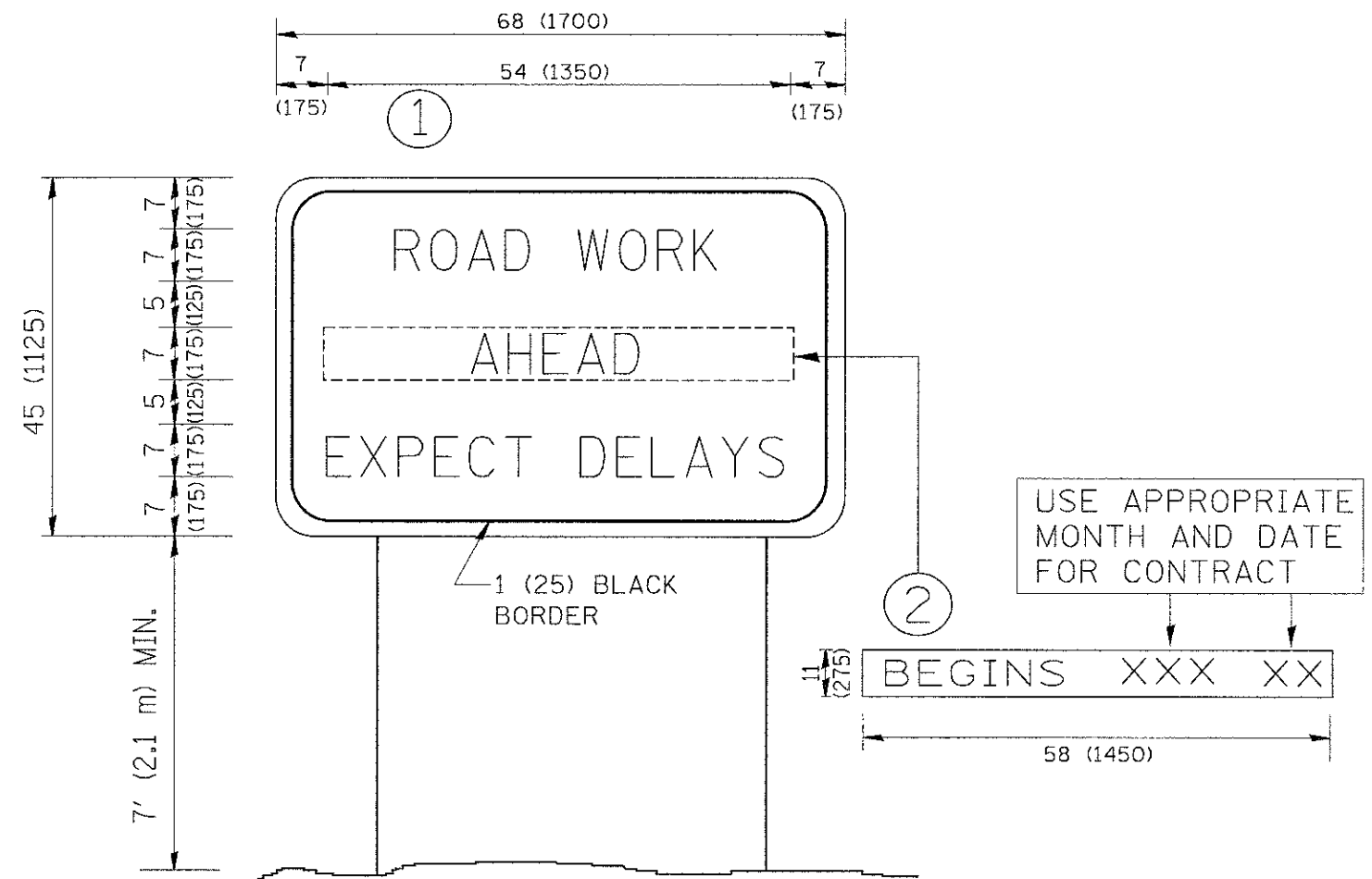
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PLOT DATE = 7/14/2009	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A.I. R.F.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	192A
TC-21			CONTRACT NO. 63629	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)				

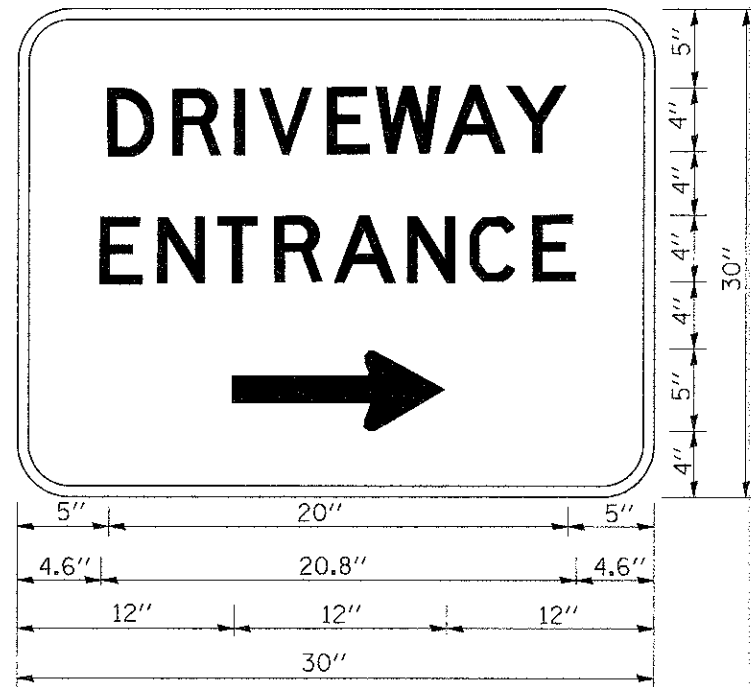


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\distrtd\22x34\to22.dgn	USER NAME = geglennobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 193
	PLOT SCALE = 50,000 / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TC-22		CONTRACT NO. 63629	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)			
		DATE -	REVISED - C. JUCIUS 01-31-07								



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

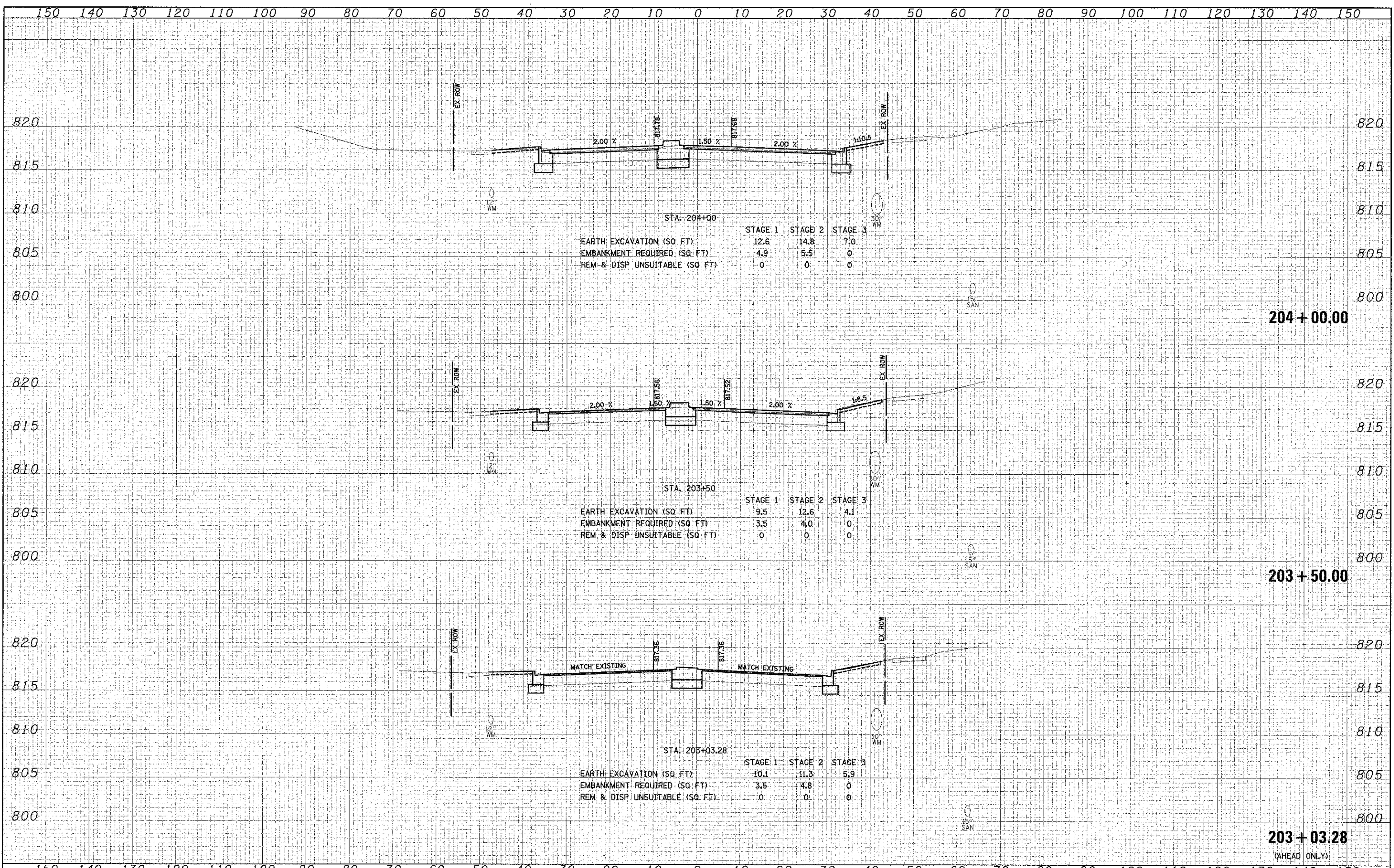
NOTES:

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".

FILE NAME = W:\d\state\22x34\te26.dgn	USER NAME = gopliant	DESIGNED - DRAWN -	REVISED - C. JUCIUS 02-15-07 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 194
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-26		CONTRACT NO. 63629	
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003(051)							

DATE: _____ BY: _____
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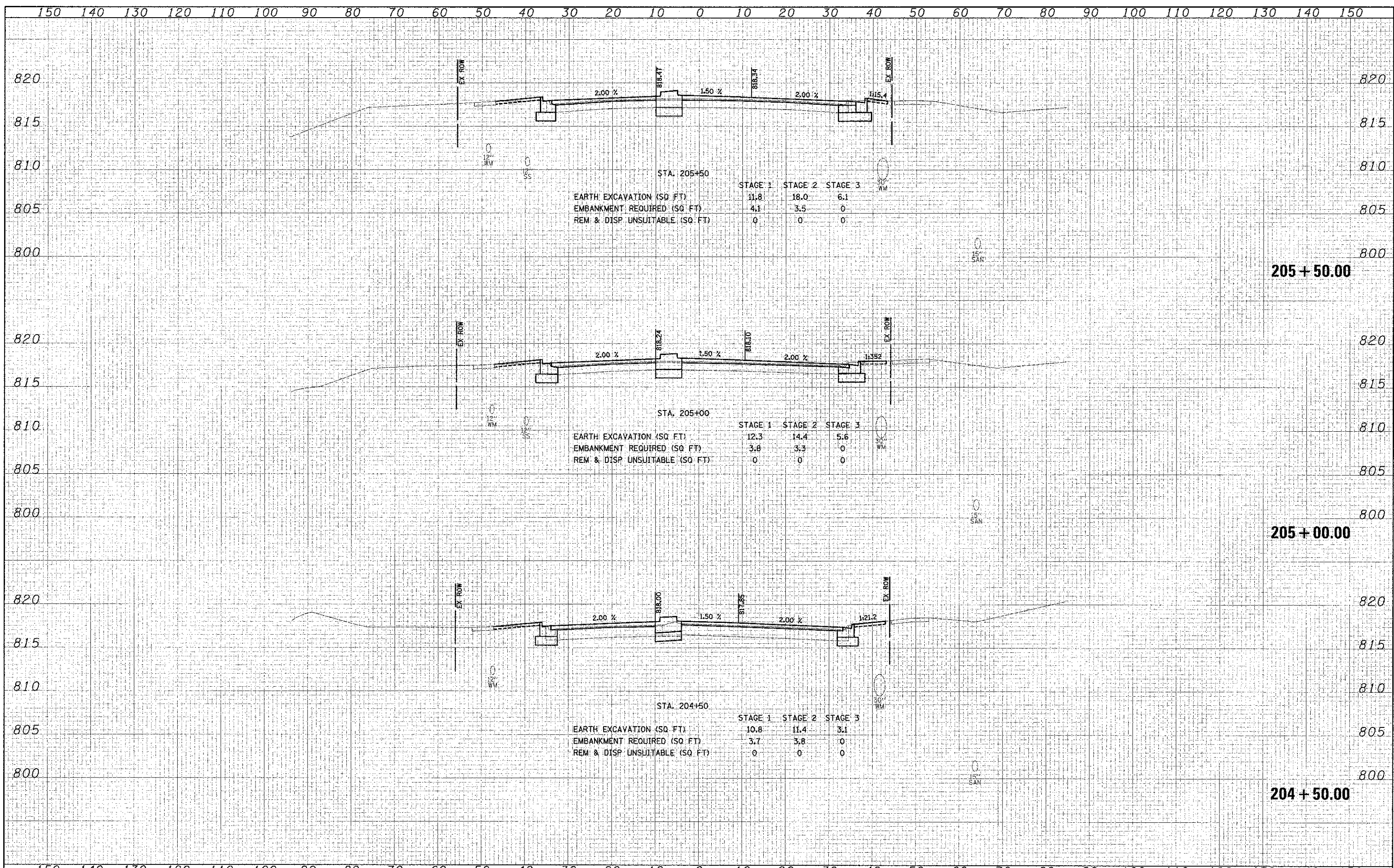
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 NOTE BOOK: _____
 AREAS CHECKED: _____



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PLOT SCALE: 1/8" = 1'-0"	CHECKED: CJK	REVISED: -	SCALE: H: 1" = 10'			SHEET NO. 1 OF 25 SHEETS	STA. 203+03.28 TO STA. 204+00.00	FED. ROAD DIST. NO. 1 (ILLINOIS)	FED. AID PROJECT M-CMM-8003(051)
PLOT DATE: 8/16/2012	DATE: 8-20-12	REVISED: -	CONTRACT NO. 63629						

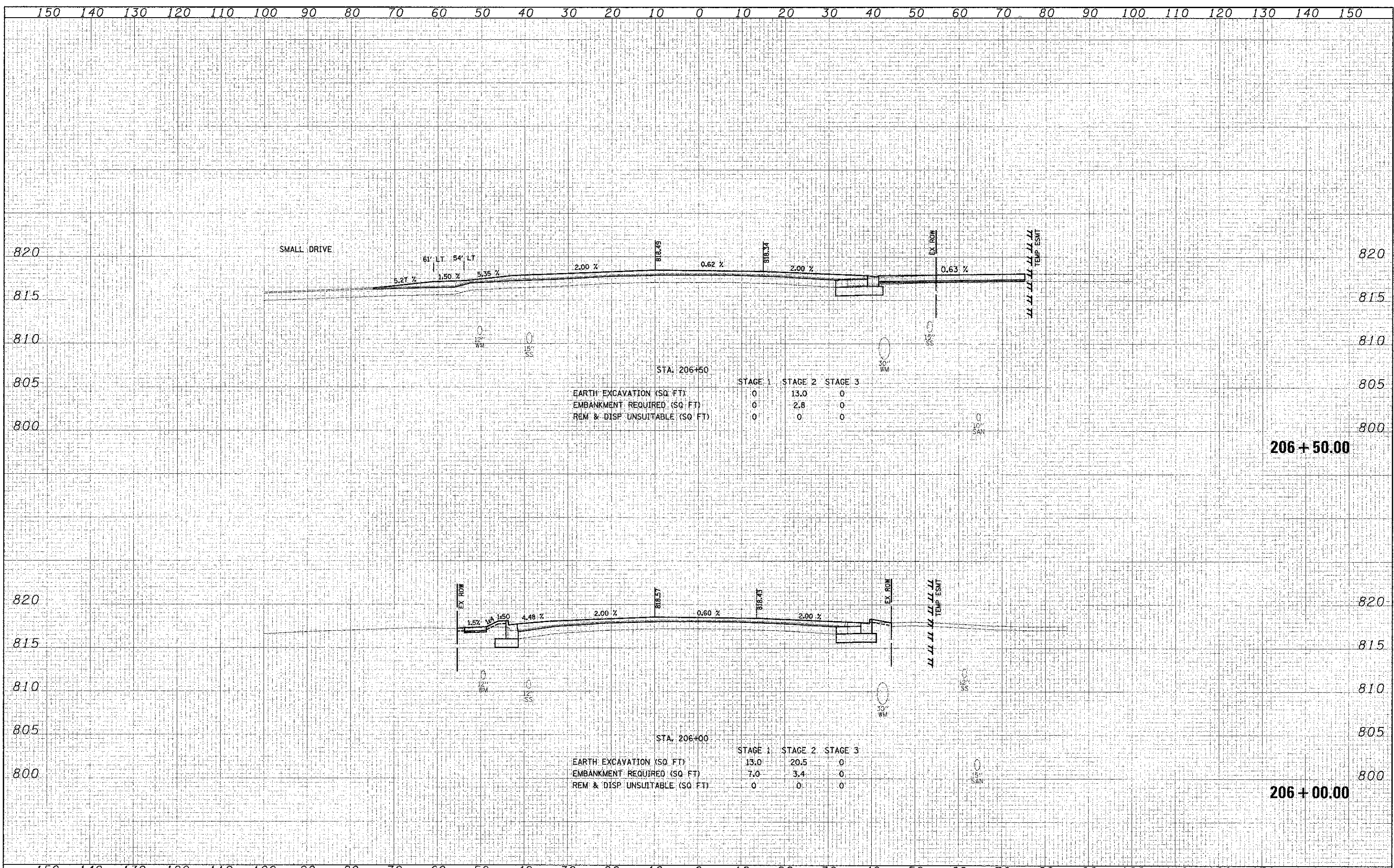
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DATE: _____ BY: _____
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STA. 206+50

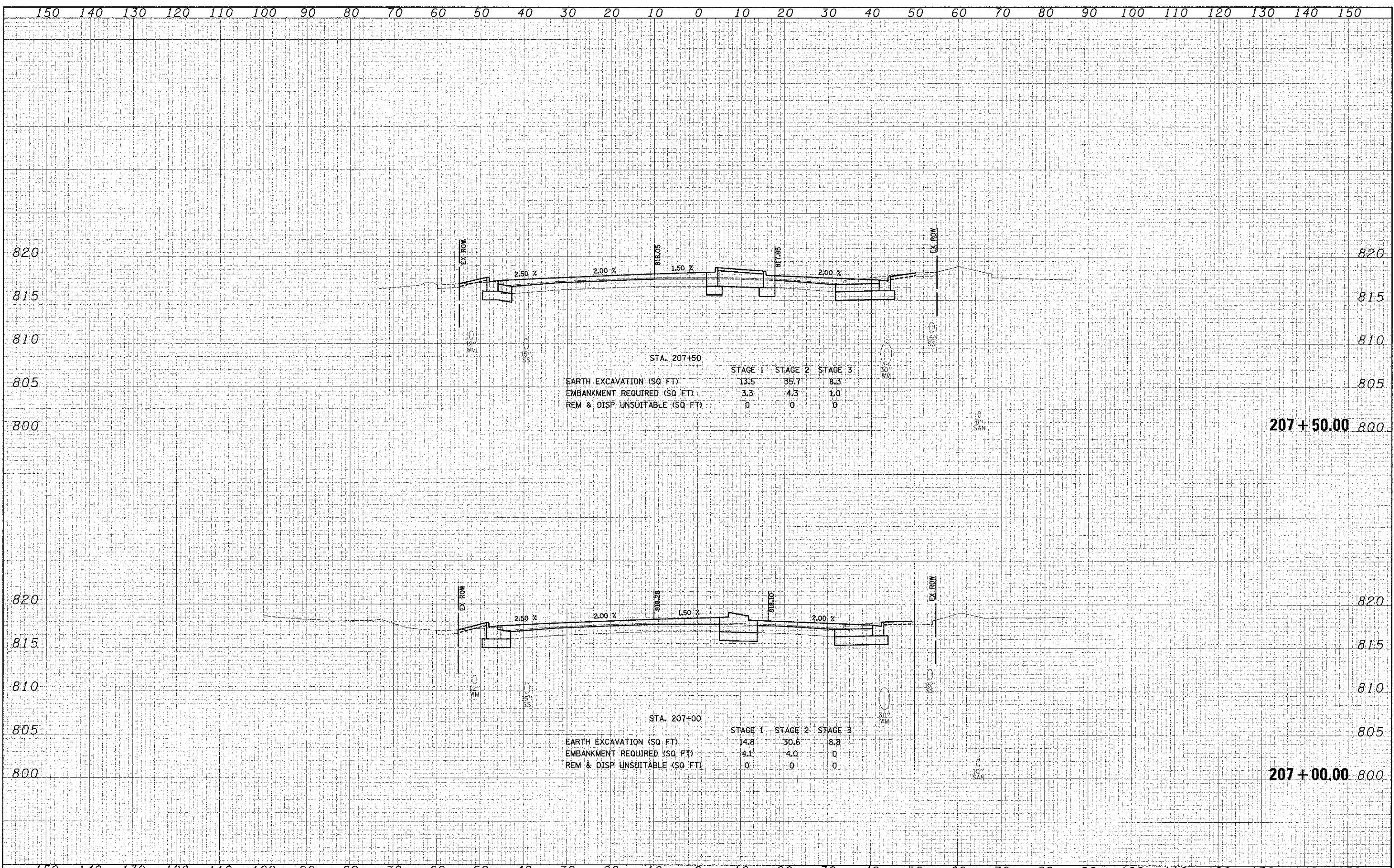
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EARTH EXCAVATION (SQ. FT.)	0	13.0	0
EMBANKMENT REQUIRED (SQ. FT.)	0	2.8	0
REM & DISP UNSUITABLE (SQ. FT.)	0	0	0

STA. 206+00

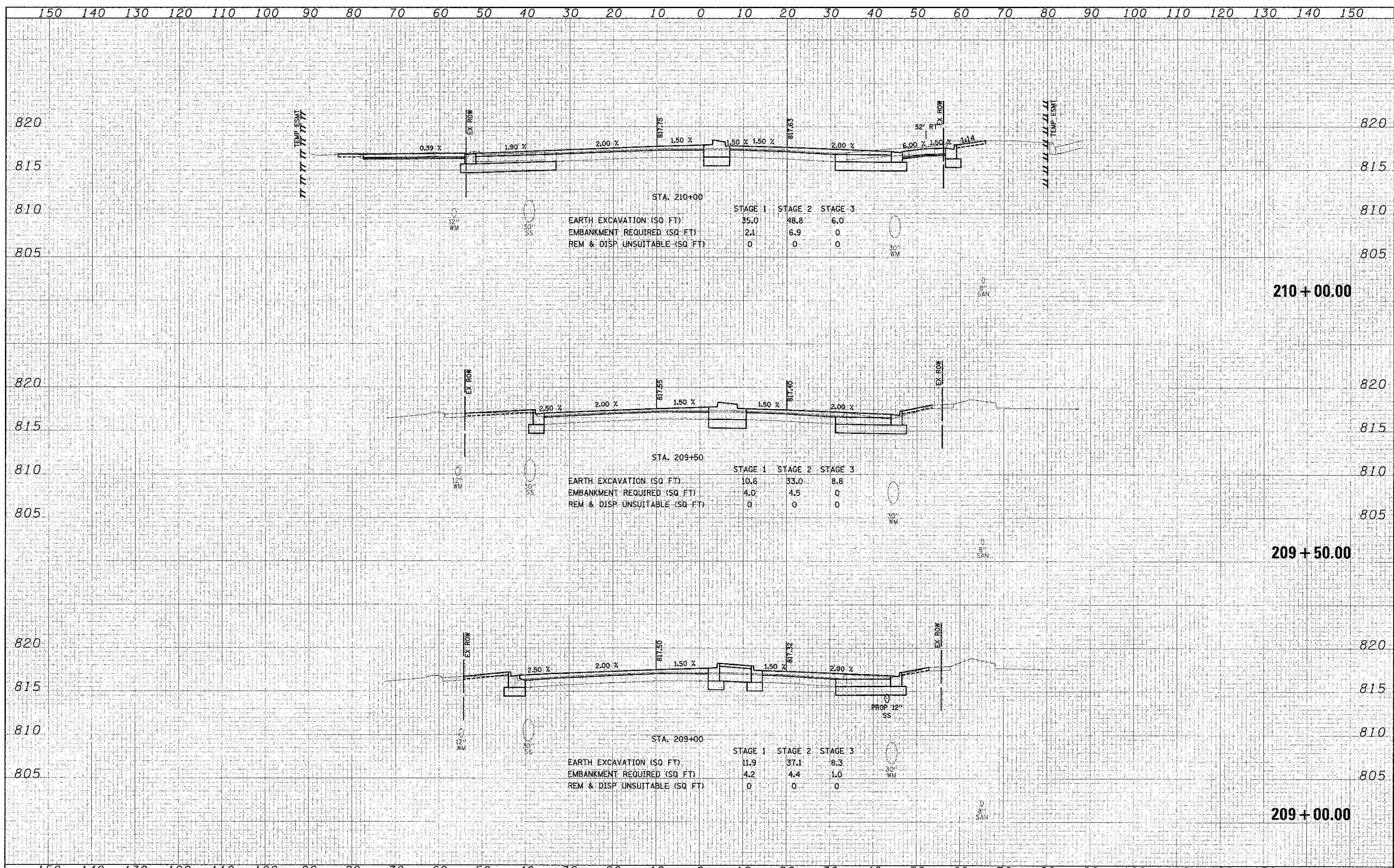
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EARTH EXCAVATION (SQ. FT.)	13.0	20.5	0
EMBANKMENT REQUIRED (SQ. FT.)	7.0	3.4	0
REM & DISP UNSUITABLE (SQ. FT.)	0	0	0

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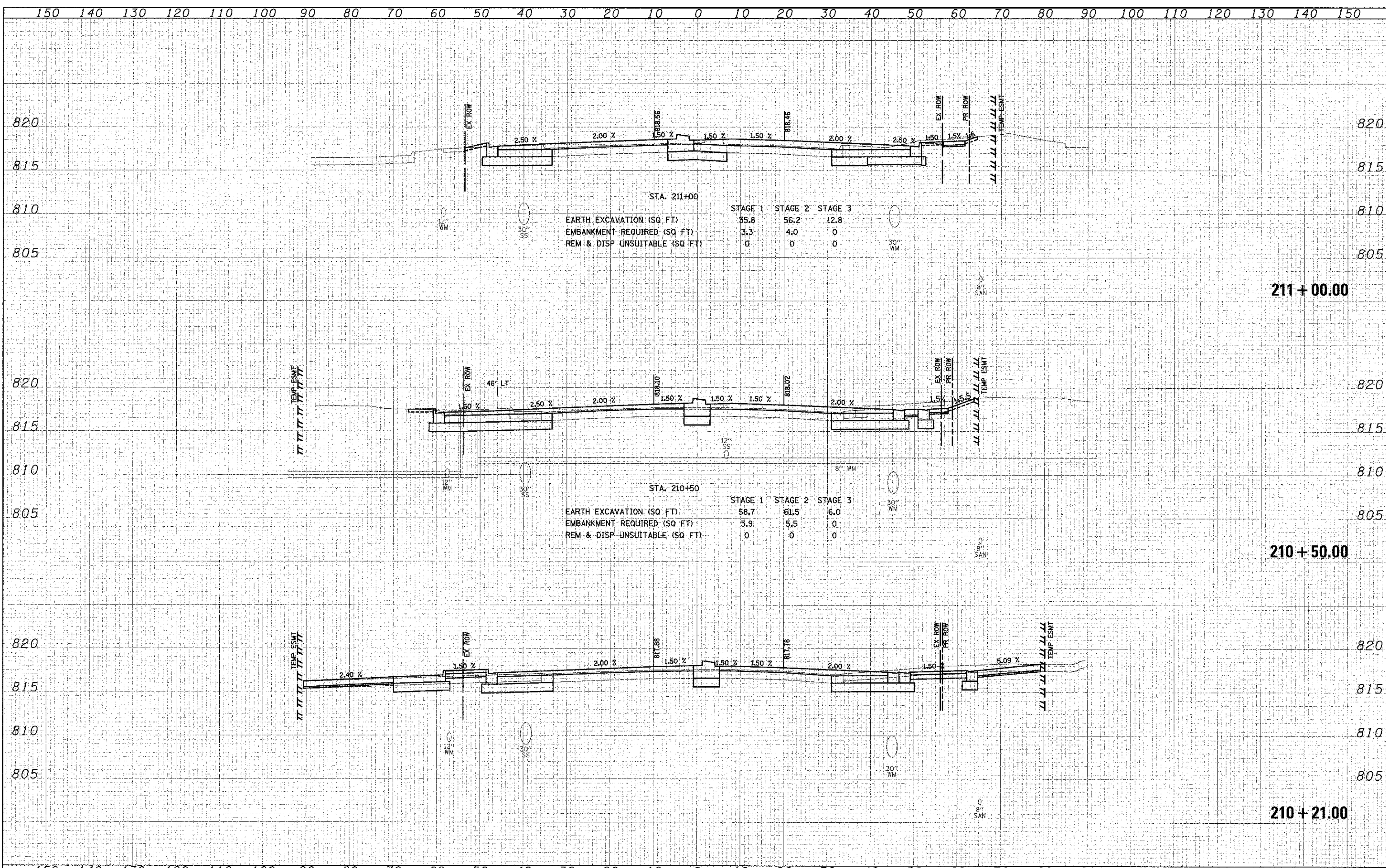
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DATE	
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ORIGINAL SURVEY	
FLYING SURVEY	
NOTED BOOK	
AREAS CHECKED	

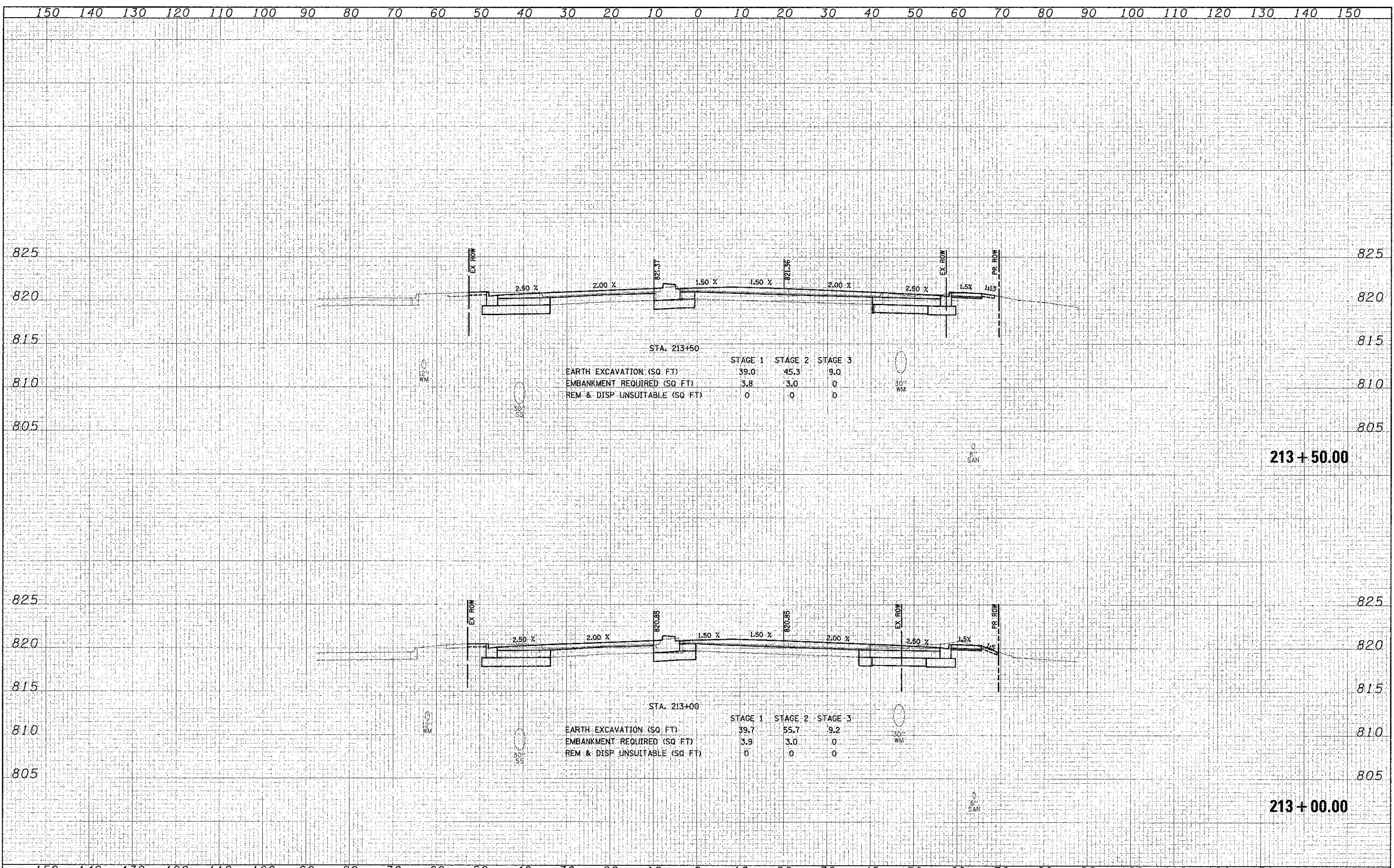
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NOTED BOOK	
AREAS CHECKED	



FILE NAME =	USER NAME = djc	DESIGNED - JAT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BARRINGTON ROAD CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...2329\cso\shoet\2329_xsecs.dgn		DRAWN - CDC	REVISED -			1322	01-0074-00-CH	COOK	245	201	
PLOT SCALE = 10,000 ft / in		CHECKED - DJK	REVISED -			CONTRACT NO. 63629					
PLOT DATE = 8/16/2012		DATE - 8-20-12	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT V-CMV-803305J					

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STA. 213+50

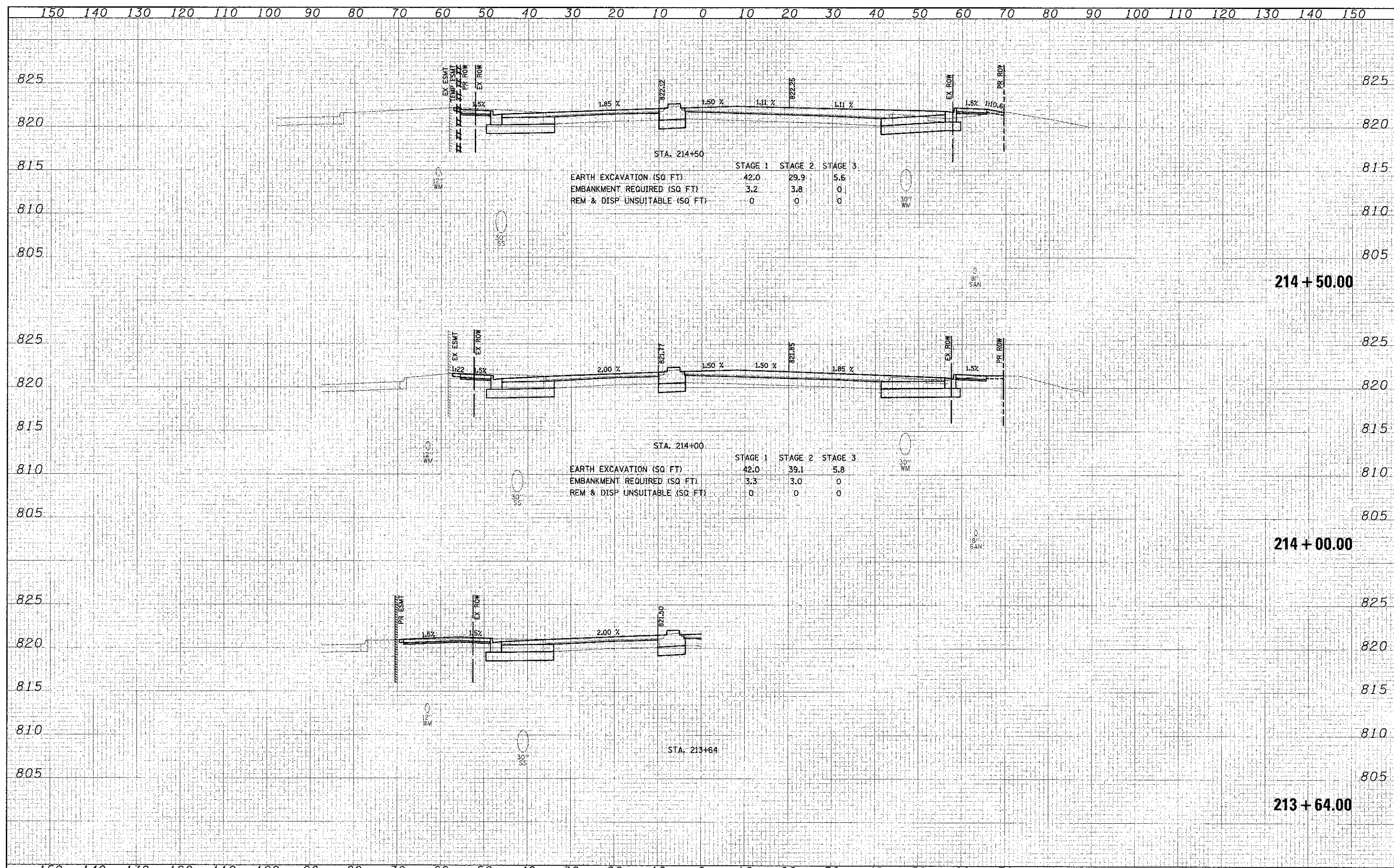
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EARTH EXCAVATION (SQ FT)	39.0	45.3	9.0
EMBANKMENT REQUIRED (SQ FT)	3.8	3.0	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA. 213+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	39.7	55.7	9.2
EMBANKMENT REQUIRED (SQ FT)	3.9	3.0	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

DATE: _____
 BY: _____
 ORIGINAL SURVEY PLOTTED: _____
 SURVEY PLOTTED: _____
 NOTE BOOK: _____
 AREA: _____
 AREAS CHECKED: _____

DATE: _____
 BY: _____
 ORIGINAL SURVEY PLOTTED: _____
 SURVEY PLOTTED: _____
 NOTE BOOK: _____
 AREA: _____
 AREAS CHECKED: _____



STA. 214+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	42.0	29.9	5.6
EMBANKMENT REQUIRED (SQ FT)	3.2	3.8	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

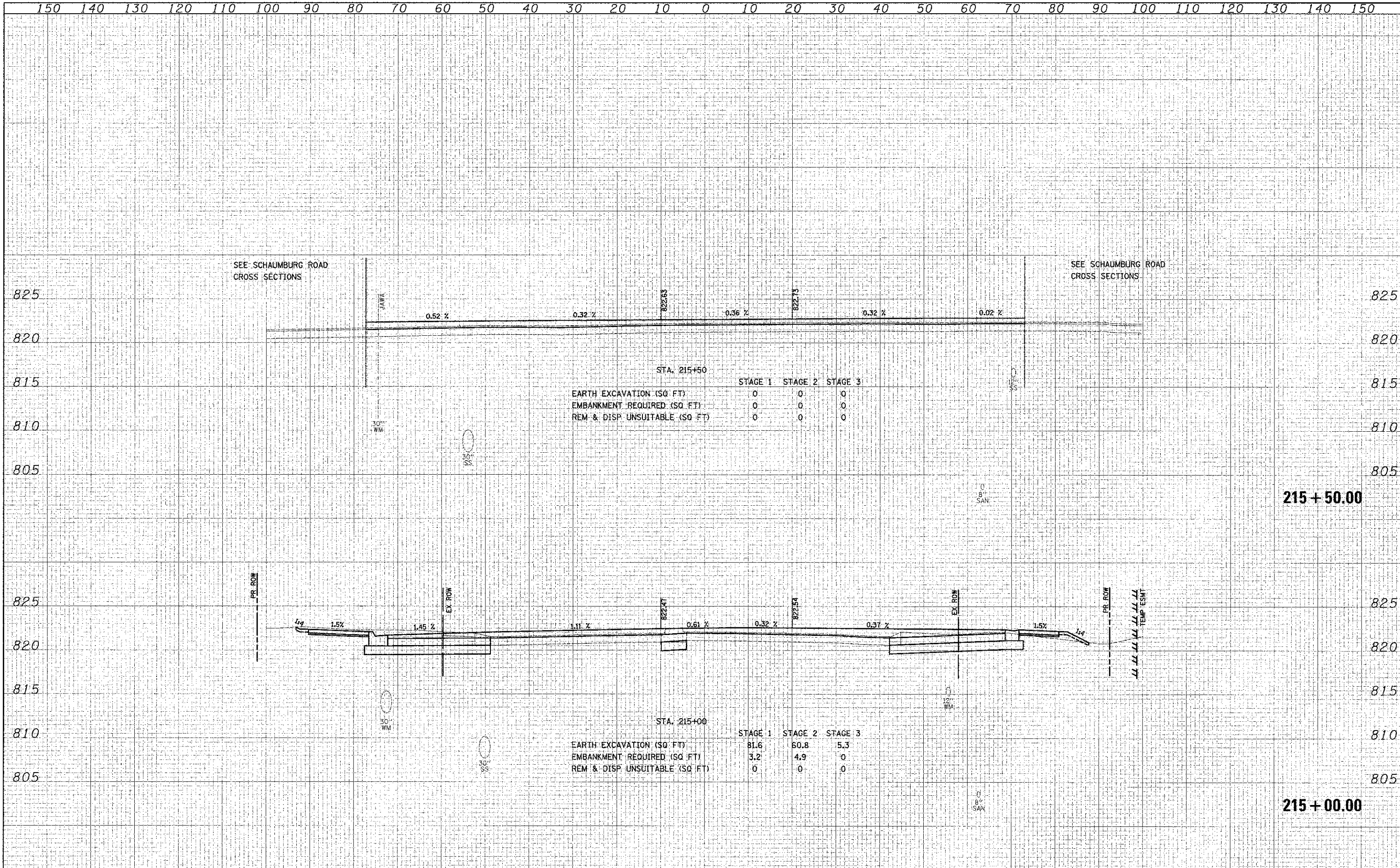
STA. 214+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	42.0	39.1	5.8
EMBANKMENT REQUIRED (SQ FT)	3.3	3.0	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA. 213+64

DATE	
BY	
FINAL SURVEY	
PLotted	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLotted	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = ...2329\cad\sheet\2329.sxees.cgm
 UGSH NAME = djc
 DESIGNED - JAT
 DRAWN - CDC
 CHECKED - DJK
 DATE - 8-20-12

REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD
 CROSS SECTIONS

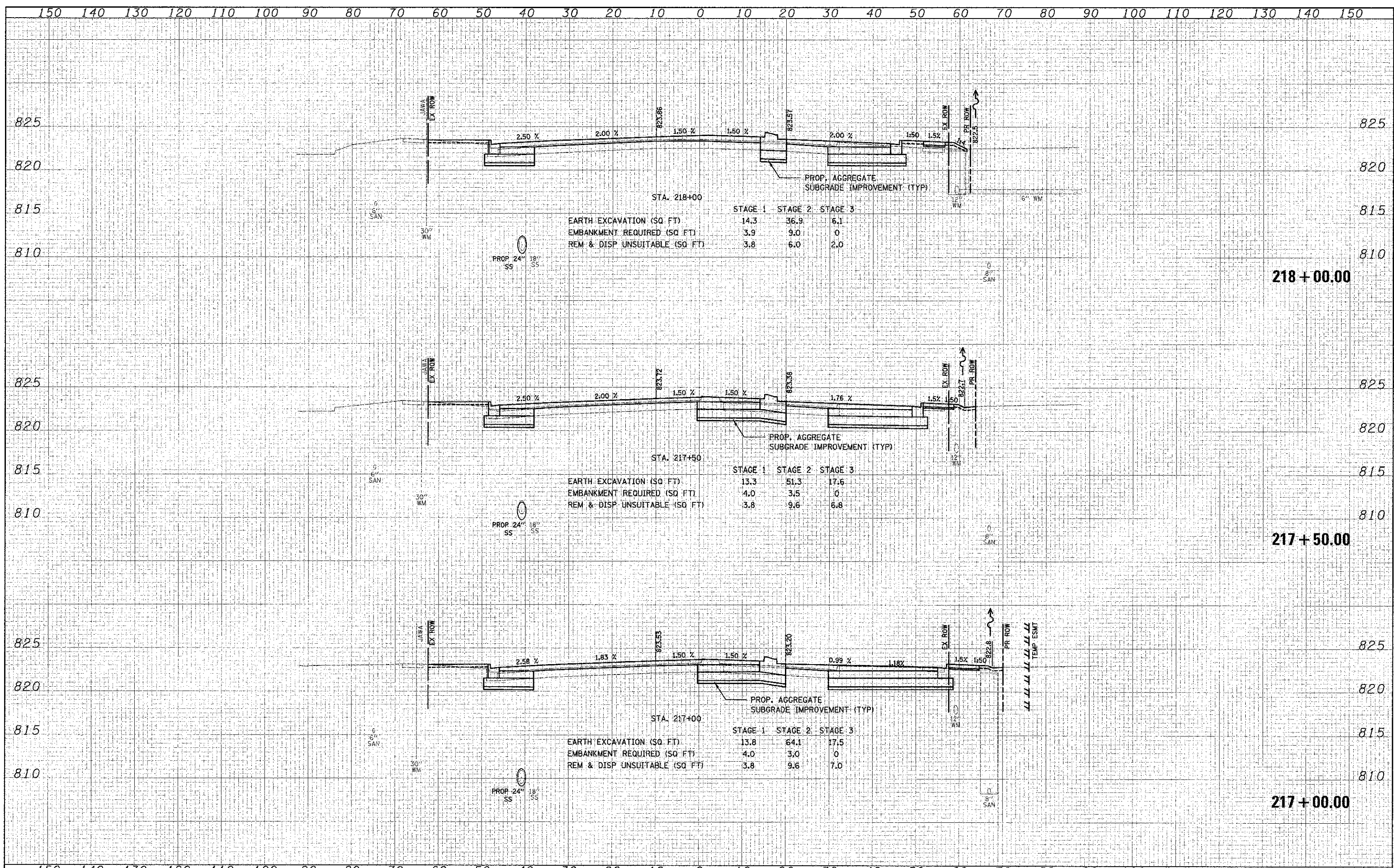
SCALE: HORIZ. 1"=10'
 VERT. 1"=5'
 SHEET NO. 11 OF 25 SHEETS
 STA. 215+00.00 TO STA. 215+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	205

CONTRACT NO. 63629
 FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-CMM-8603(05)J

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REVISIONS	
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2. PLOTTED	
3. TEMPLATE	
4. NOTE BOOK	
5. AREAS CHECKED	
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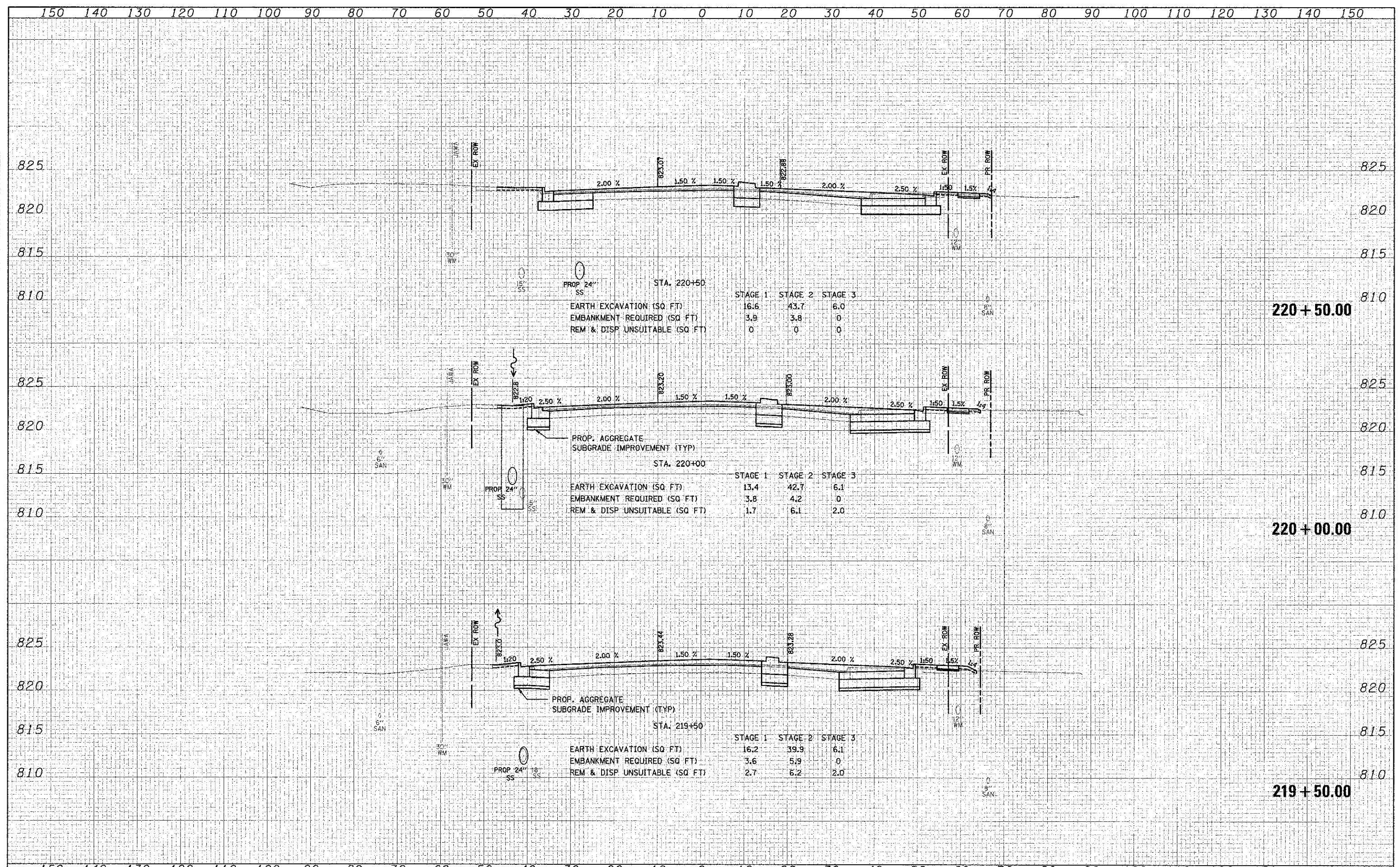
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1. SURVEYED	
2. PLOTTED	
3. TEMPLATE	
4. NOTE BOOK	
5. AREAS CHECKED	
6. AREAS CHECKED	



FILE NAME ...2329\road\shoot\2329_xxxx.dgn	USER NAME = djk	DESIGNED - JAT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BARRINGTON ROAD CROSS SECTIONS	F.A.U. RTE. 1322	SECTION 01-00074-00-CH	COUNTY COOK	TOTAL SHEETS 245	SHEET NO. 207	
PLDT GD4: E = 10.00000 Ft / in.	CHECKED - DJK	REVISOR -	REVISED -			SCALE: H: 1"=10' V: 1"=5'	SHEET NO. 13 OF 25 SHEETS	STA. 217+00.00 TO STA. 218+00.00	CONTRACT NO. 63629		
PLDT DATE = 8/16/2012	DATE - 8-20-12	REVISOR -	REVISED -			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-CMM-8003(05D)					

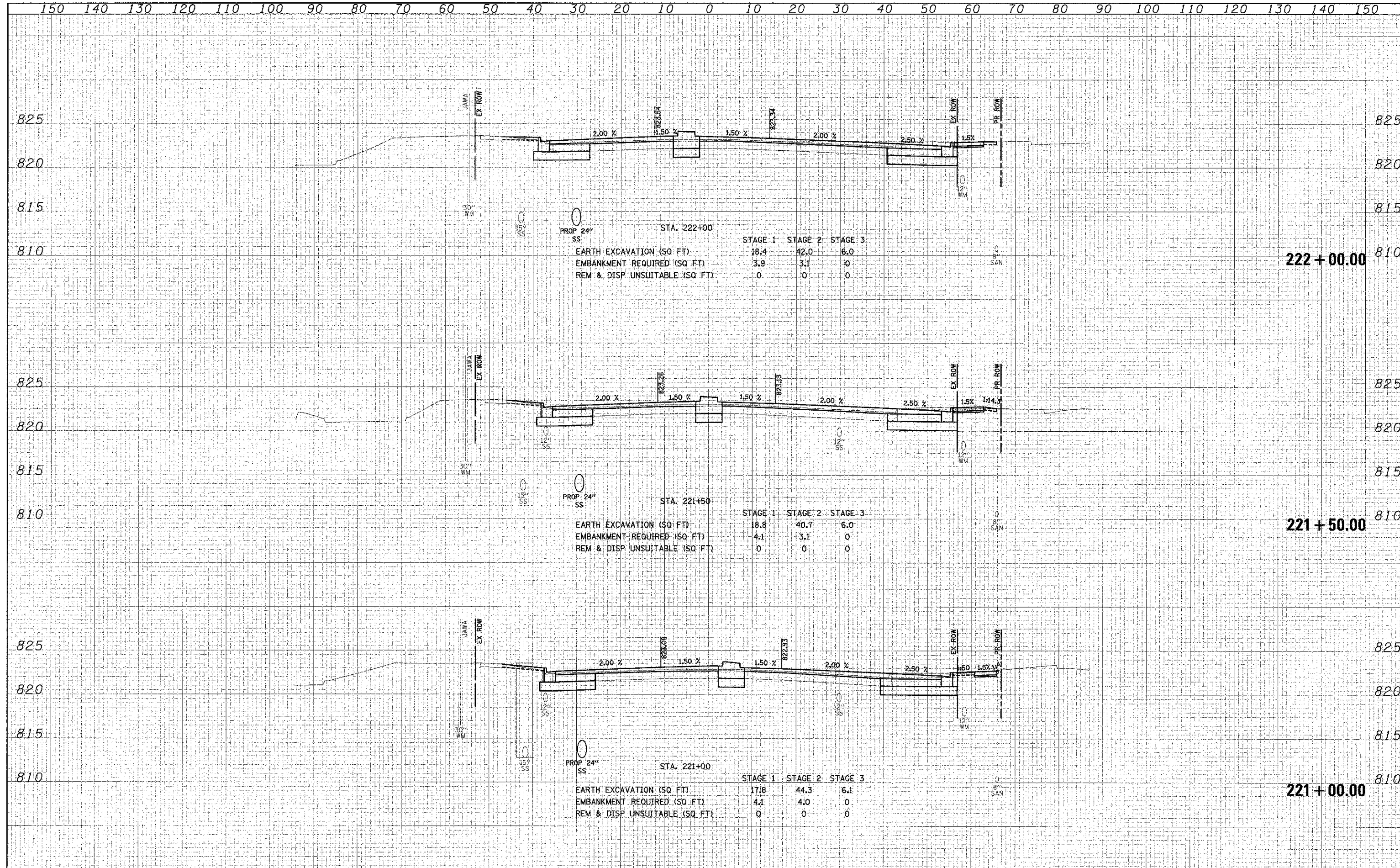
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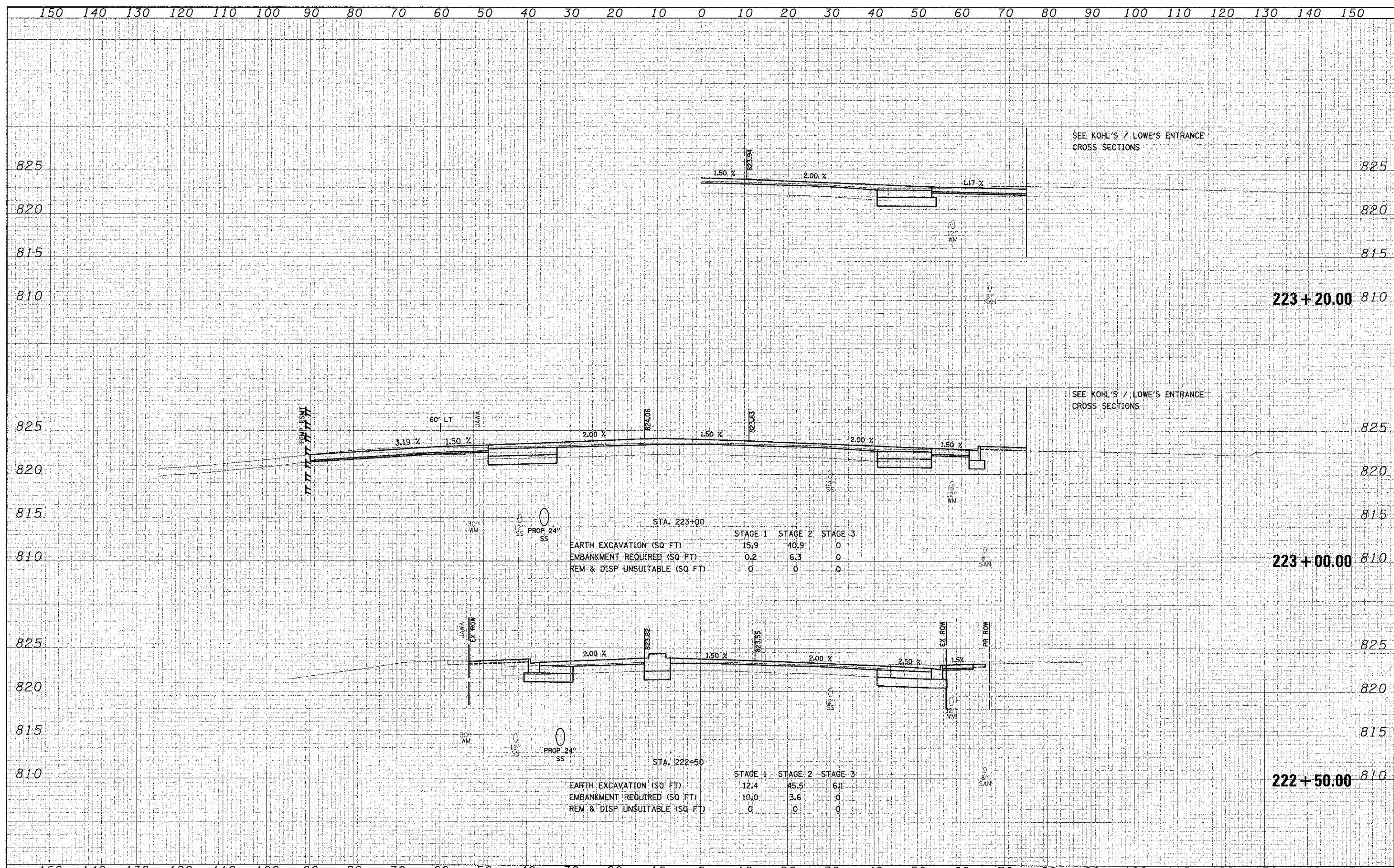
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STA. 223+00

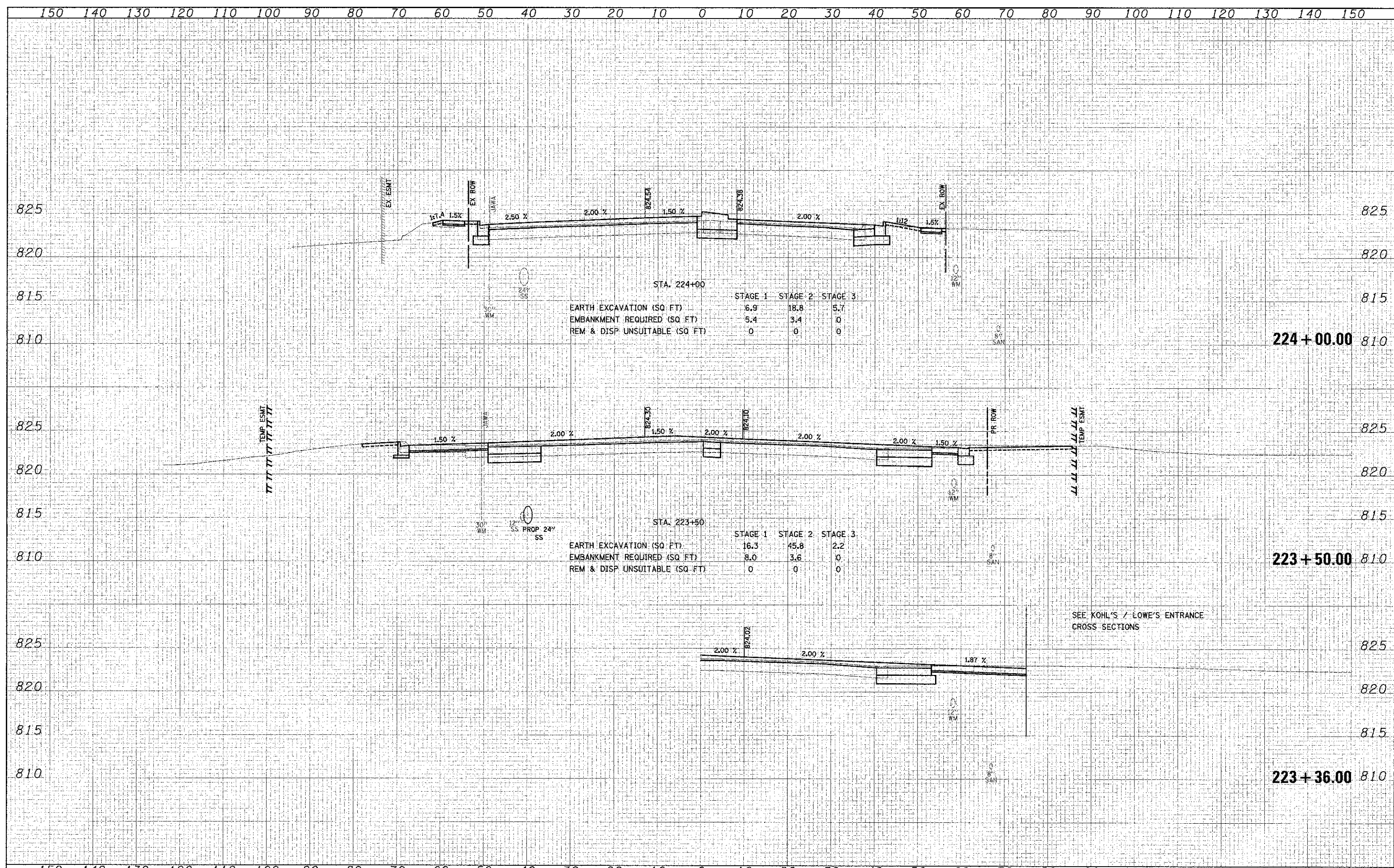
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EARTH EXCAVATION (SQ. FT)	15.9	40.9	0
EMBANKMENT REQUIRED (SQ. FT)	0.2	6.3	0
REM & DISP UNSUITABLE (SQ. FT)	0	0	0

STA. 222+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	12.4	45.5	6.1
EMBANKMENT REQUIRED (SQ. FT)	10.0	3.6	0
REM & DISP UNSUITABLE (SQ. FT)	0	0	0

FINAL SERVICES
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED

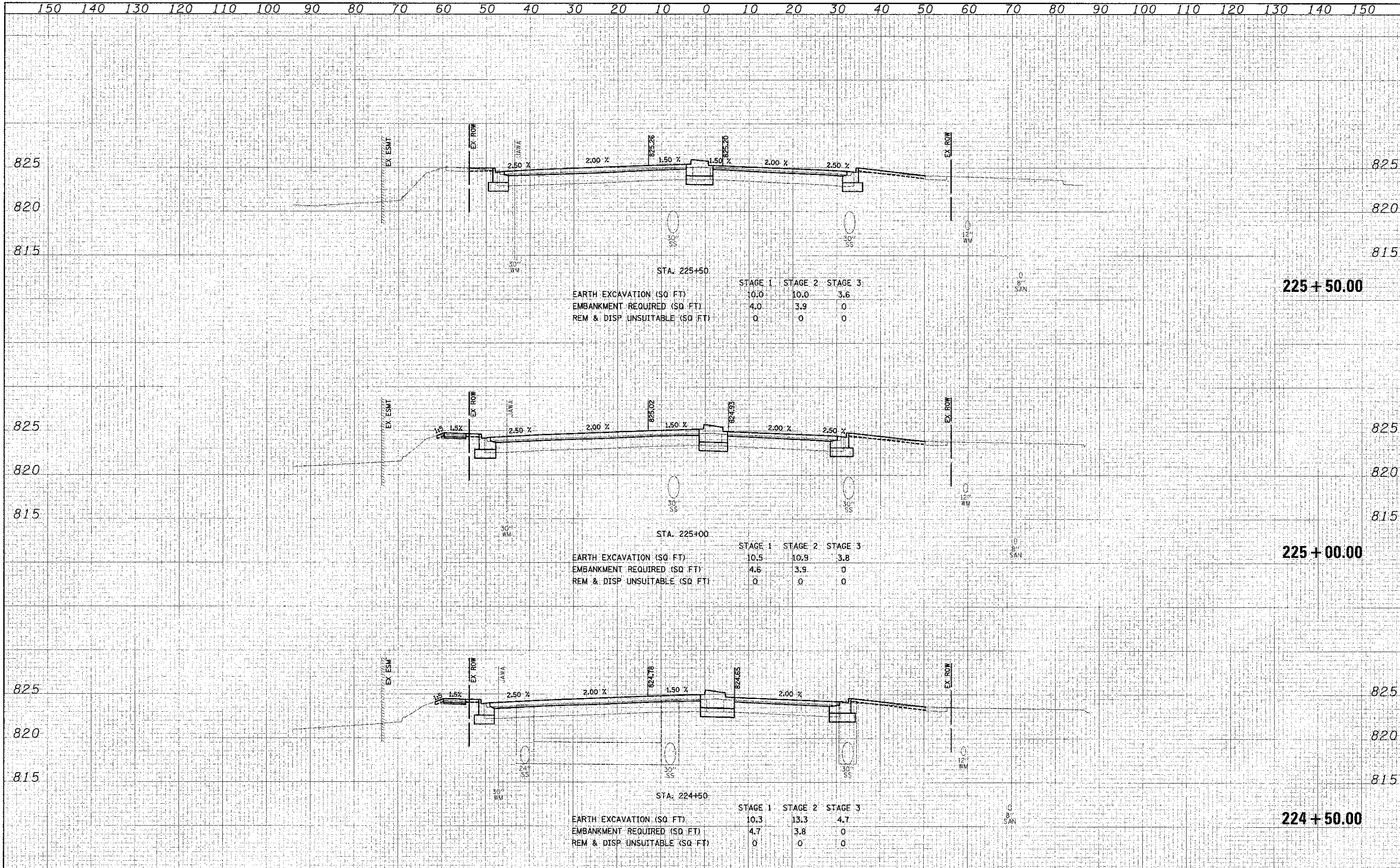
ORIGINAL SERVICES
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED



SEE KOHL'S / LOWE'S ENTRANCE
 CROSS SECTIONS

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____



STA: 225+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	0.0	10.0	3.6
EMBANKMENT REQUIRED (SQ FT)	4.0	3.9	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA: 225+00

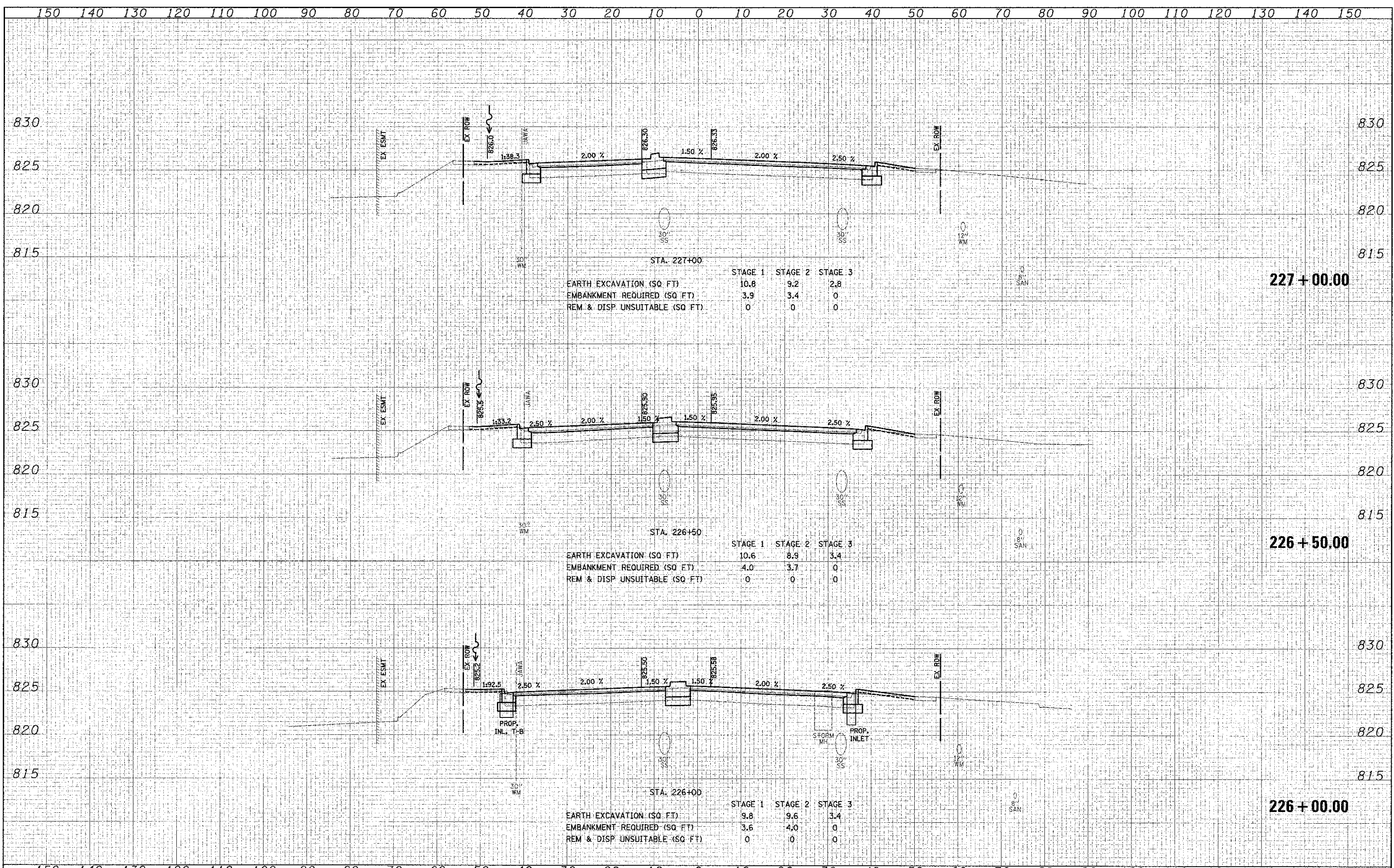
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EARTH EXCAVATION (SQ FT)	10.5	10.9	3.8
EMBANKMENT REQUIRED (SQ FT)	4.6	3.9	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA: 224+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	10.3	13.3	4.7
EMBANKMENT REQUIRED (SQ FT)	4.7	3.8	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

DATE	
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NOTE BOOK	
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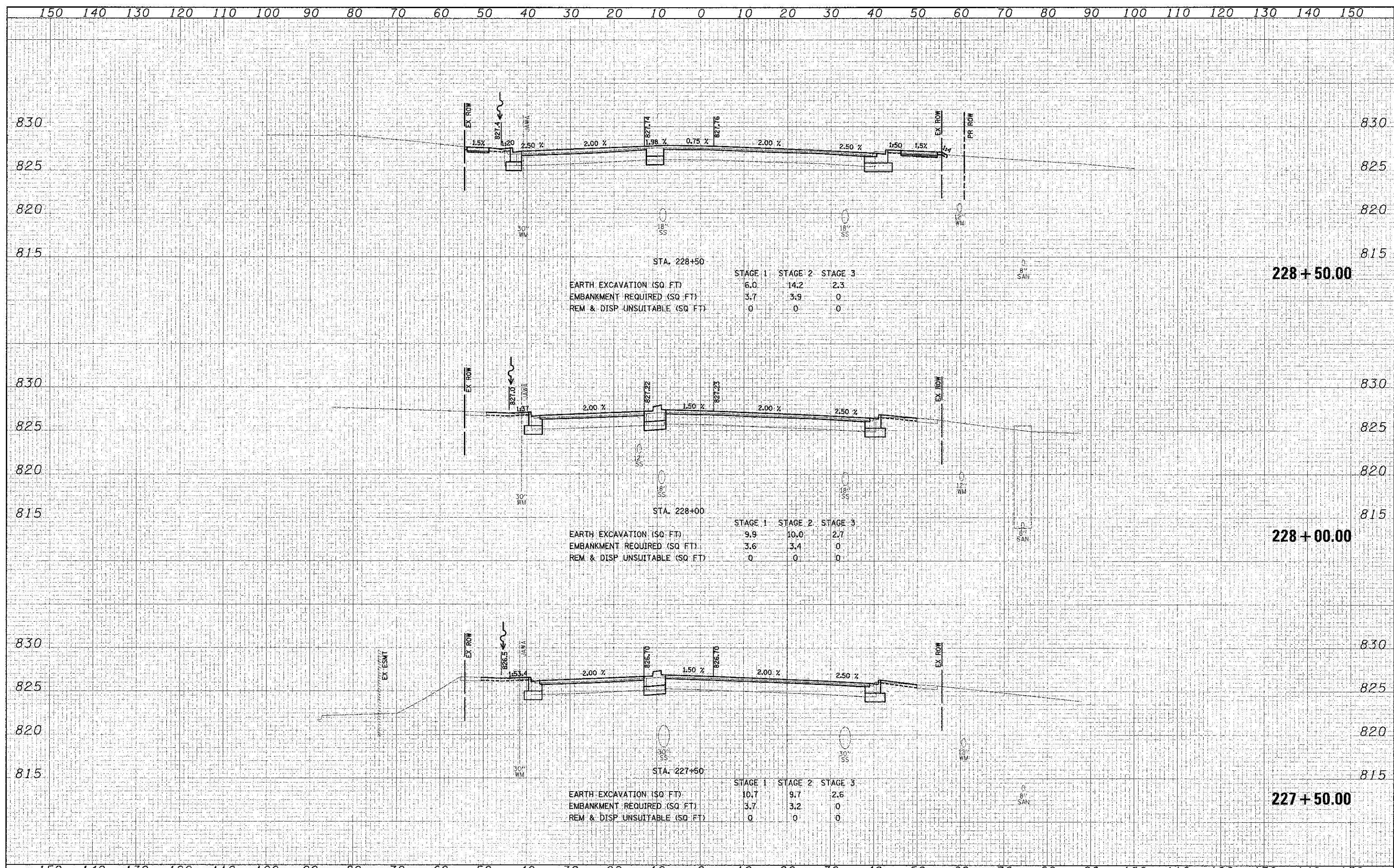
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NOTE BOOK	
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PLOT SCALE = 10.0000 ft / in		CHECKED - DJK	REVISED -			CONTRACT NO. 63629					
PLOT DATE 8/16/2012		DATE - 8-20-12	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CJM-803/05D					

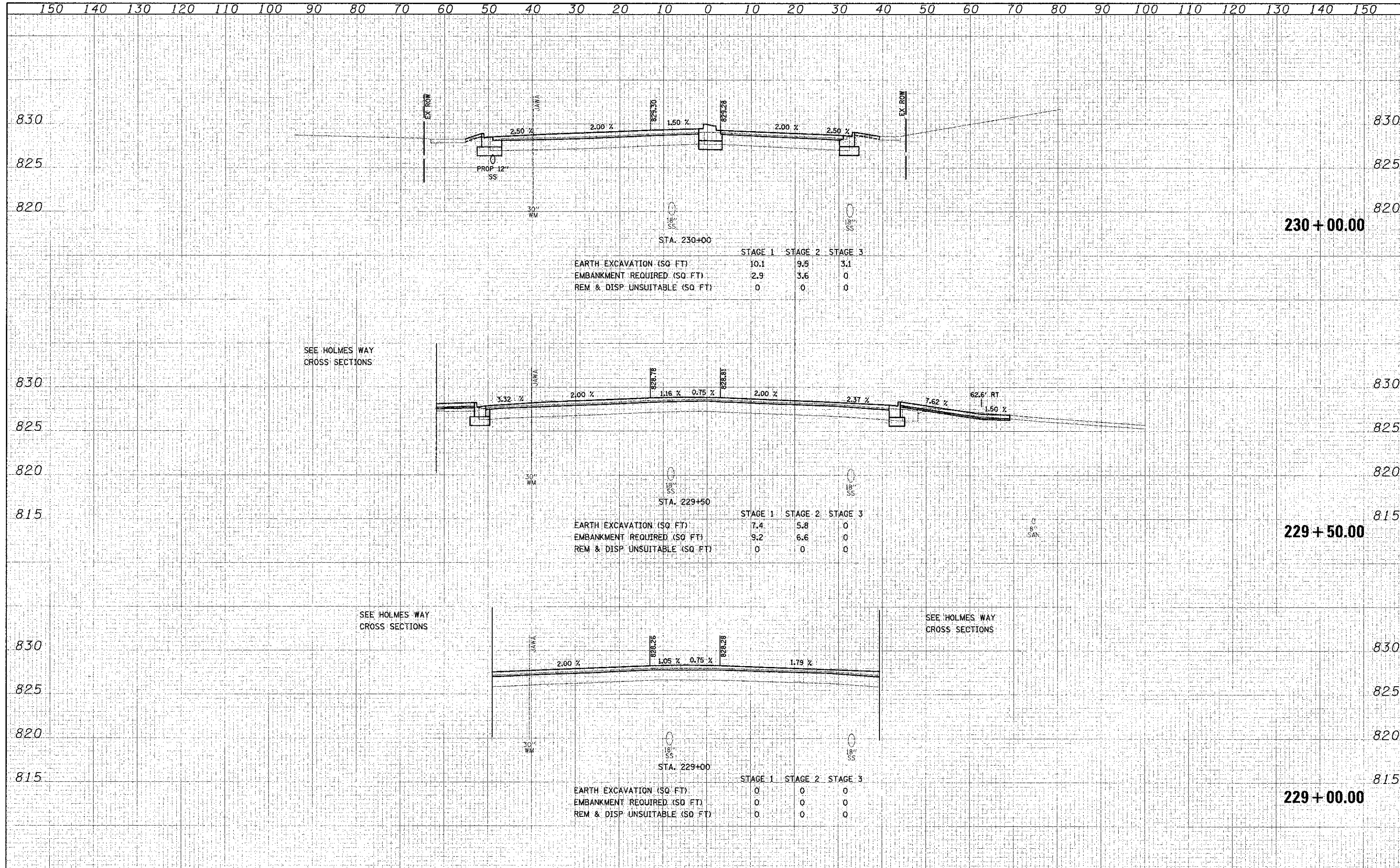
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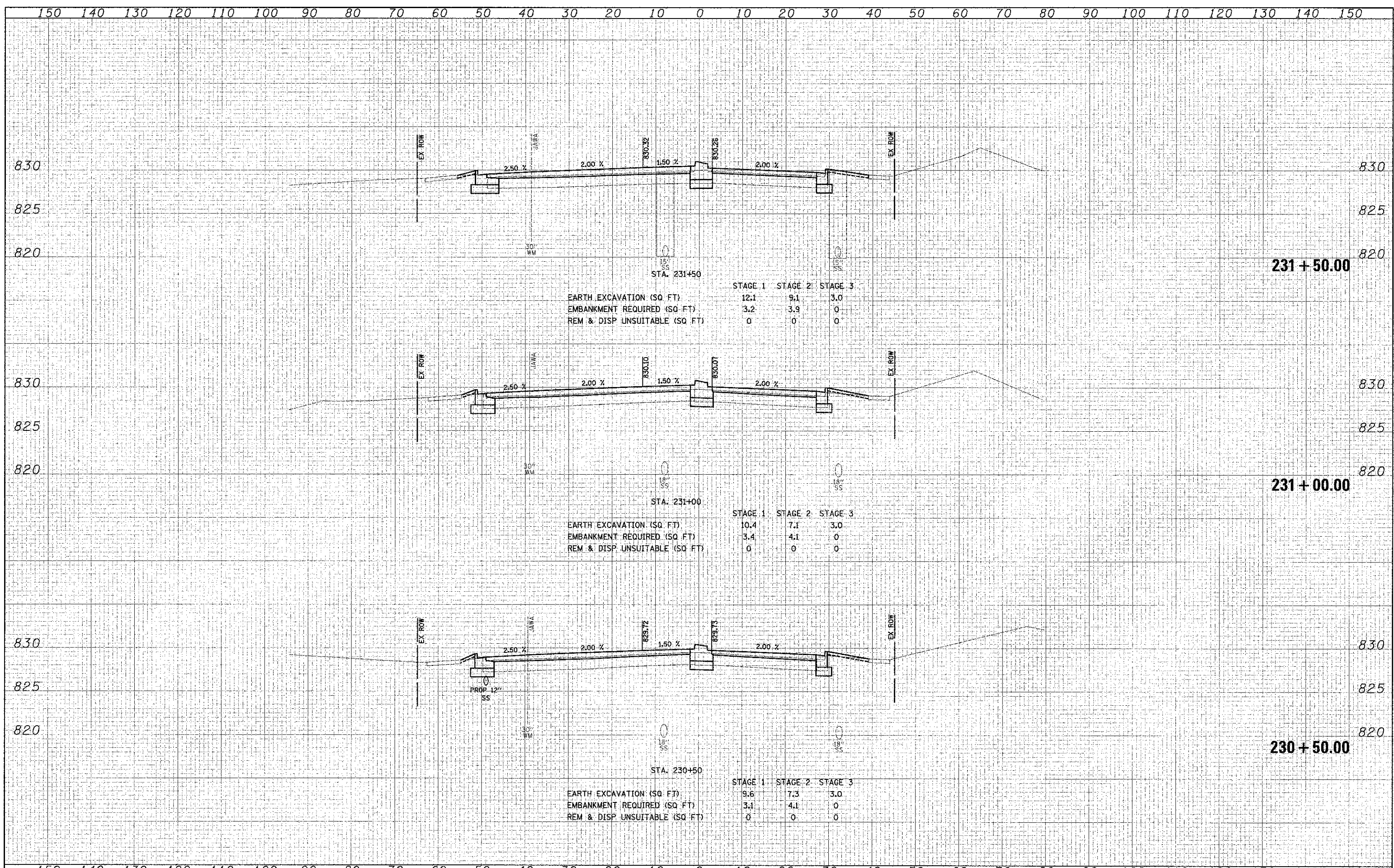
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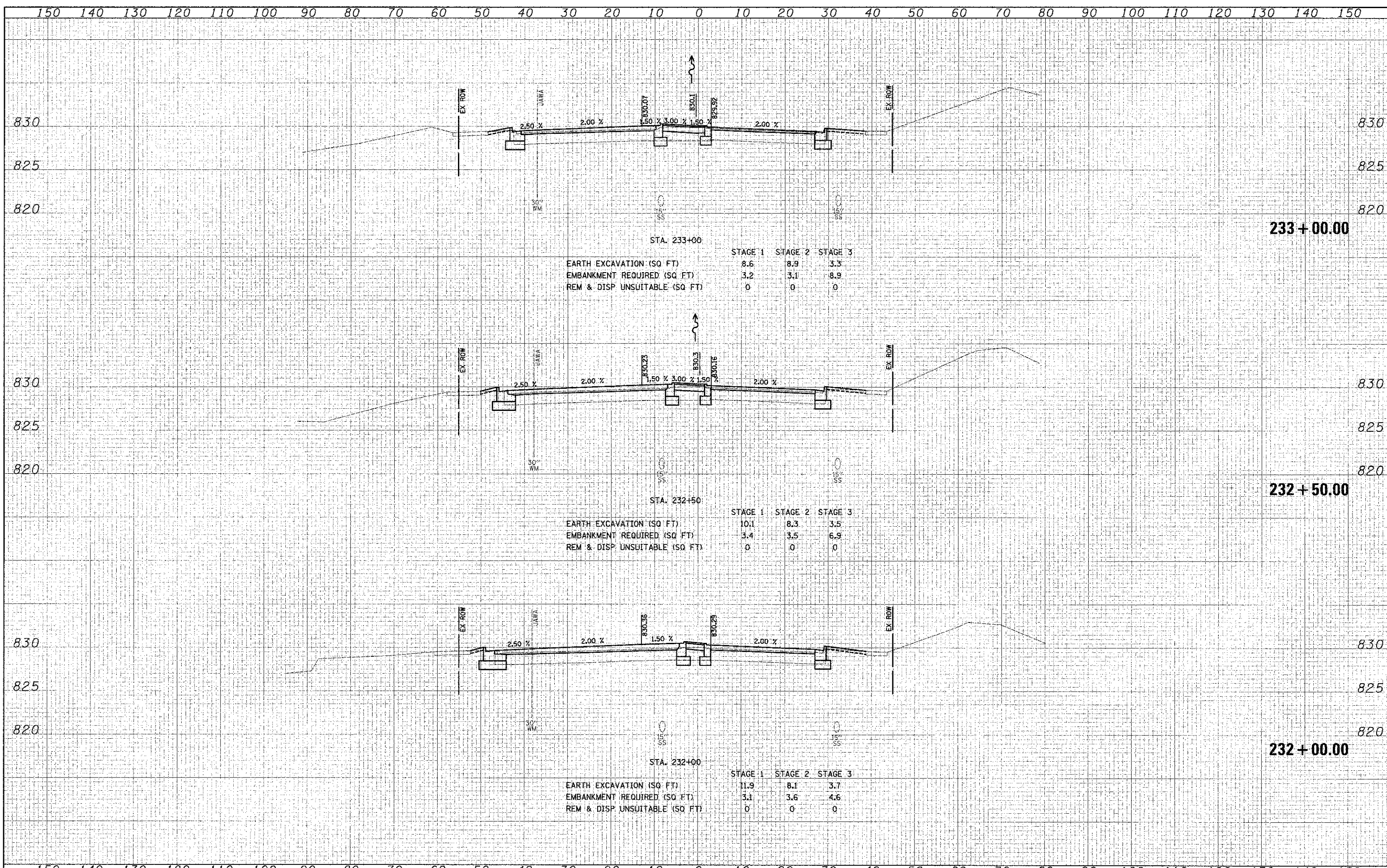
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DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

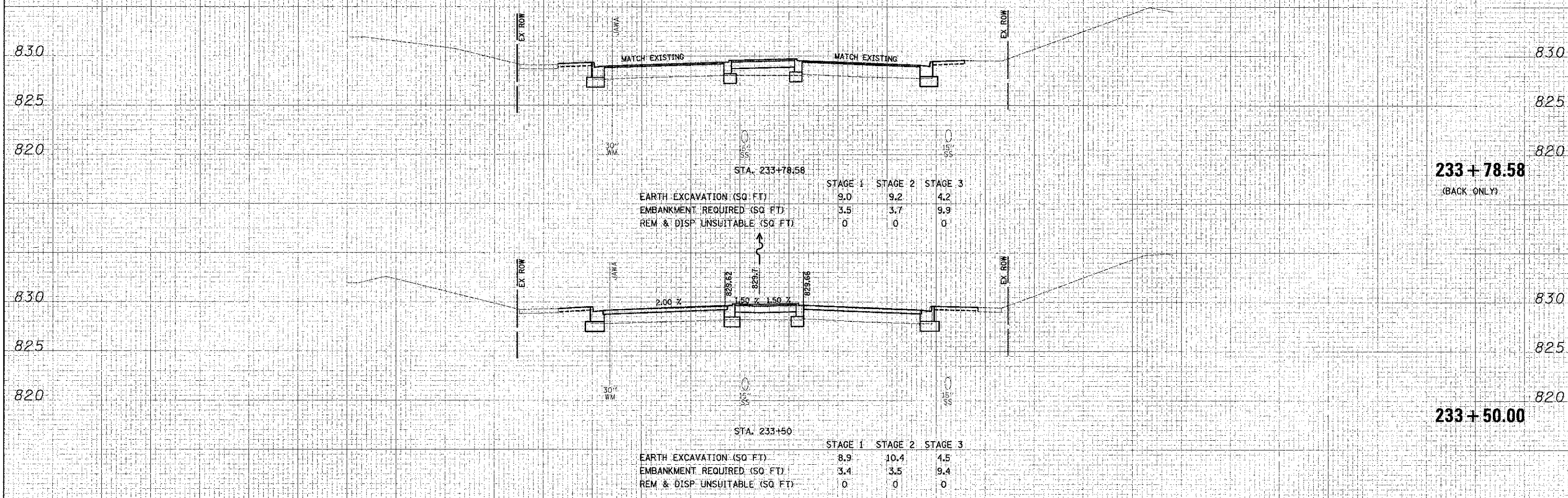
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BY	
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FINAL SURVEY	
SHRINKED PLOTTER	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SHRINKED PLOTTER	
NOTE BOOK	
AREAS CHECKED	



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USER NAME = djr
 DESIGNED - JAT
 DRAWN - DJK
 CHECKED - CDC
 DATE - 8-20-12

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BARRINGTON ROAD
 CROSS SECTIONS**

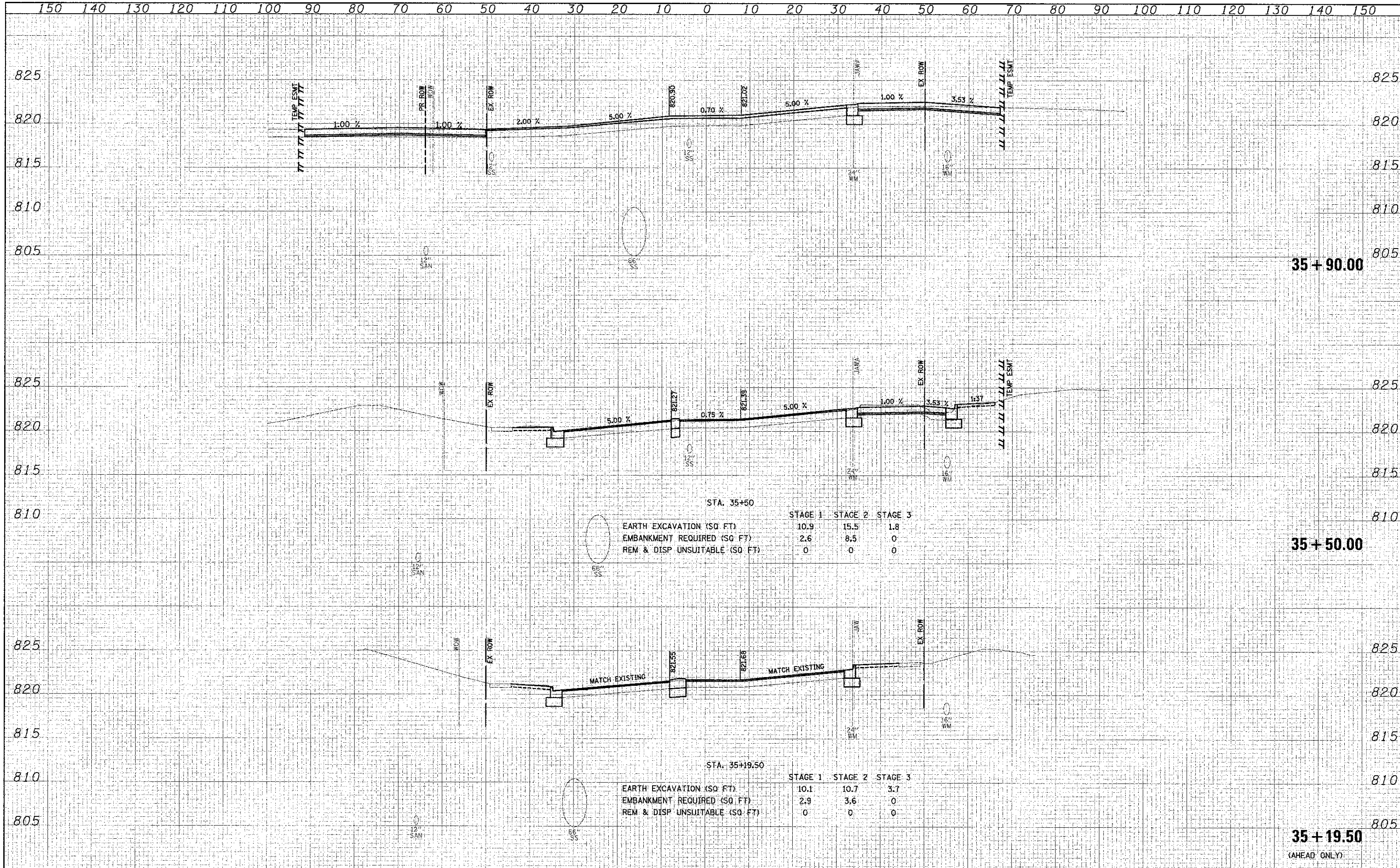
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 V: 1"=5'
 SHEET NO. 25 OF 25 SHEETS
 STA. 233+50.00 TO STA. 233+78.58

F.A.U. RT.:	SECTION	COUNTY	TOTAL SHEETS: NO.
1322	01-00074-00-CH	COOK	245 219
CONTRACT NO. 63629			

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-CMM-803/G511

DATE: _____
 BY: _____
 CHECKED: _____
 DESIGNED: _____
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 PLOTTED: _____
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 PREPARED: _____
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DATE: _____
 BY: _____
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STA. 35+50

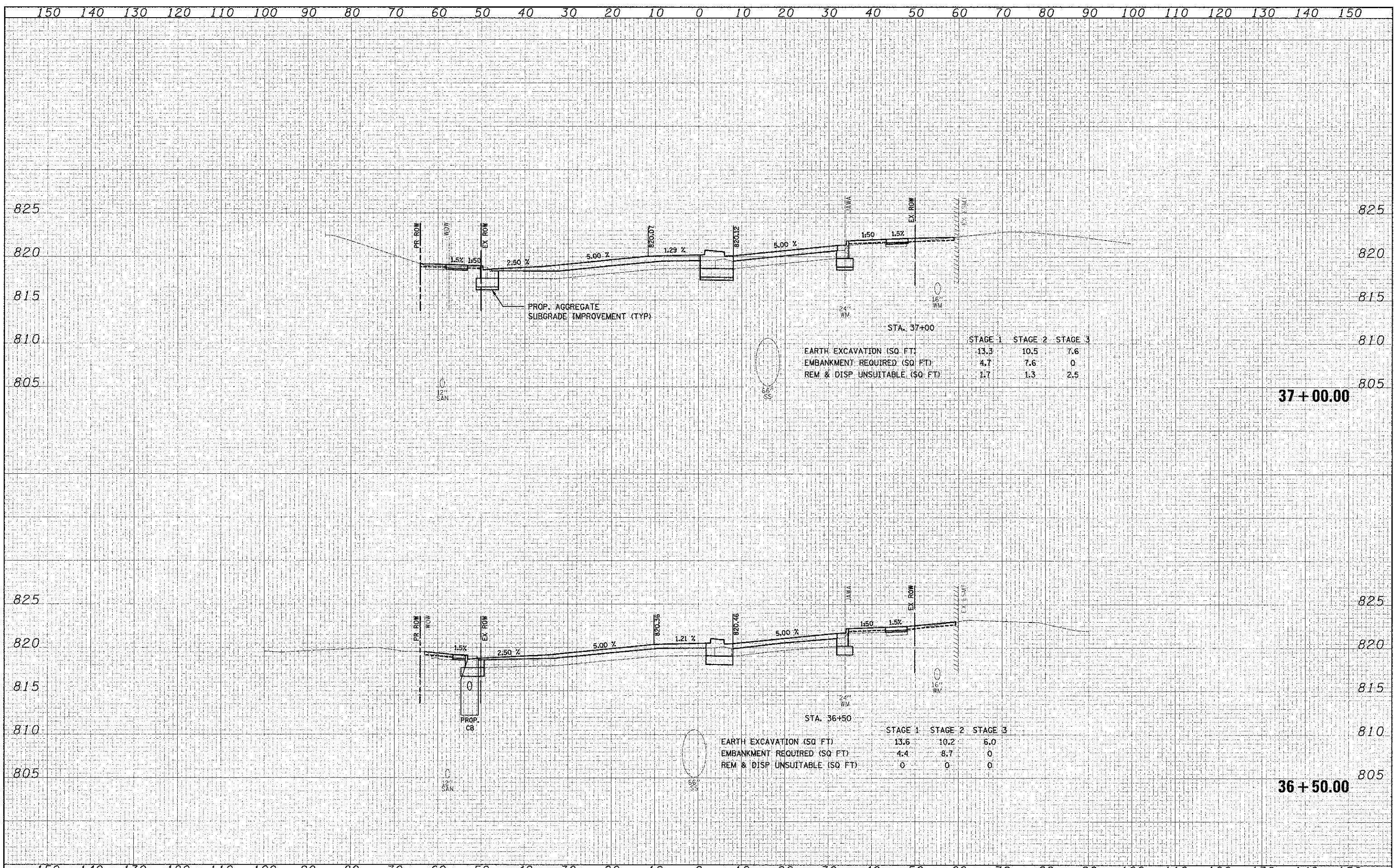
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EARTH EXCAVATION (SQ. FT.)	10.9	15.5	1.8
EMBANKMENT REQUIRED (SQ. FT.)	2.6	8.5	0
REM & DISP UNSUITABLE (SQ. FT.)	0	0	0

STA. 35+19.50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT.)	10.1	10.7	3.7
EMBANKMENT REQUIRED (SQ. FT.)	2.9	3.6	0
REM & DISP UNSUITABLE (SQ. FT.)	0	0	0

DATE	BY
SURVEYED	SURVEYED
PLOTTED	PLOTTED
NOTE BOOK	NOTE BOOK
AREAS CHECKED	AREAS CHECKED

DATE	BY
SURVEYED	SURVEYED
PLOTTED	PLOTTED
NOTE BOOK	NOTE BOOK
AREAS CHECKED	AREAS CHECKED



STA. 37+00

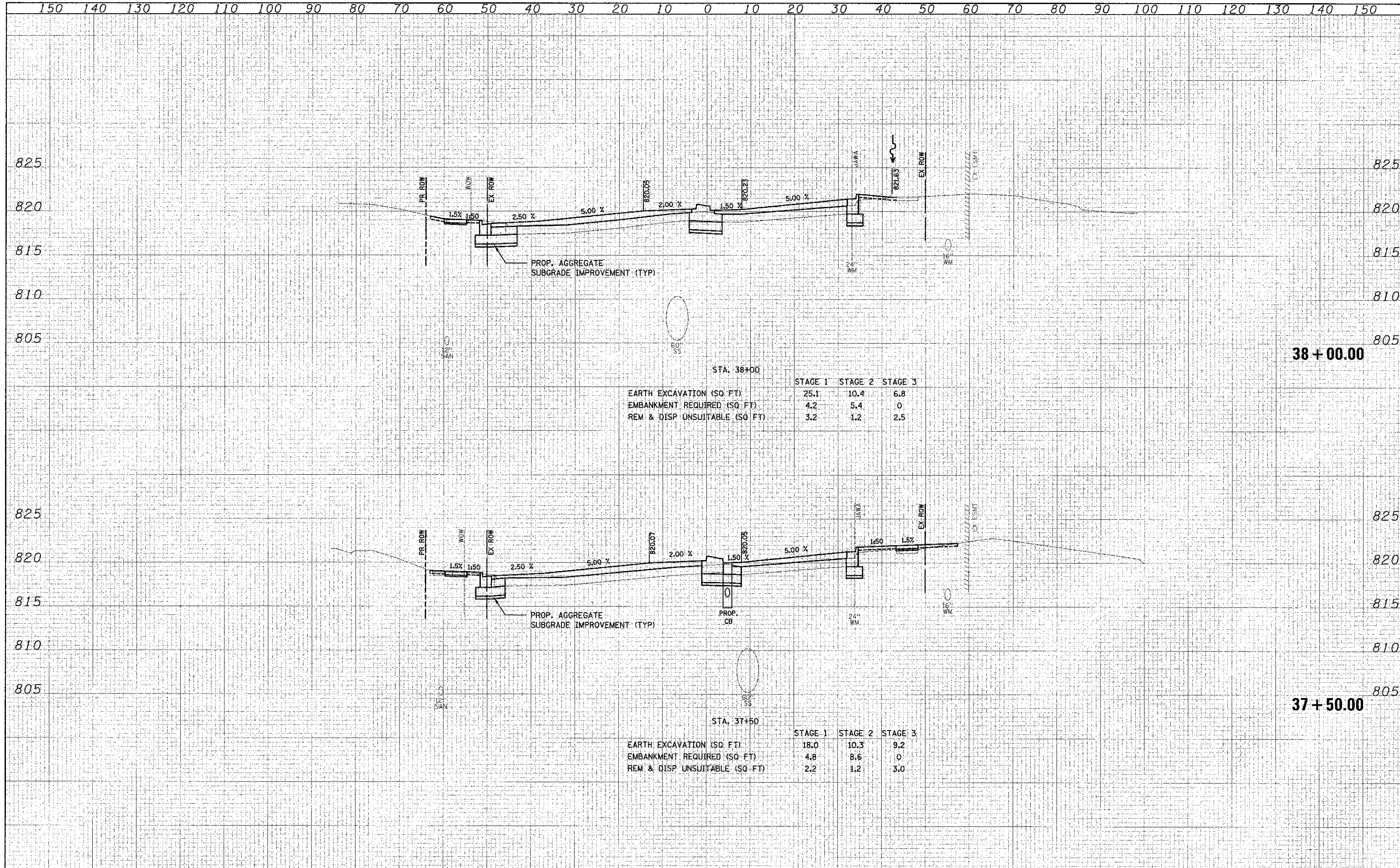
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EARTH EXCAVATION (SQ. FT.)	13.3	10.5	7.6
EMBANKMENT REQUIRED (SQ. FT.)	4.7	7.6	0
REM & DISP UNSUITABLE (SQ. FT.)	1.7	1.3	2.5

STA. 36+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT.)	13.6	10.2	6.0
EMBANKMENT REQUIRED (SQ. FT.)	4.4	8.7	0
REM & DISP UNSUITABLE (SQ. FT.)	0	0	0

FINAL SURVEYED PLOTTED NOTE BOOK AREAS CHECKED
 BY DATE
 NO.

SURVEYED PLOTTED TEMPLATE AREAS CHECKED
 BY DATE
 NO.



STA. 38+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	25.1	10.4	6.8
EMBANKMENT REQUIRED (SQ. FT)	4.2	5.4	0
REM & DISP UNSUITABLE (SQ. FT)	3.2	1.2	2.5

STA. 37+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	18.0	10.3	9.2
EMBANKMENT REQUIRED (SQ. FT)	4.8	8.6	0
REM & DISP UNSUITABLE (SQ. FT)	2.2	1.2	3.0

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

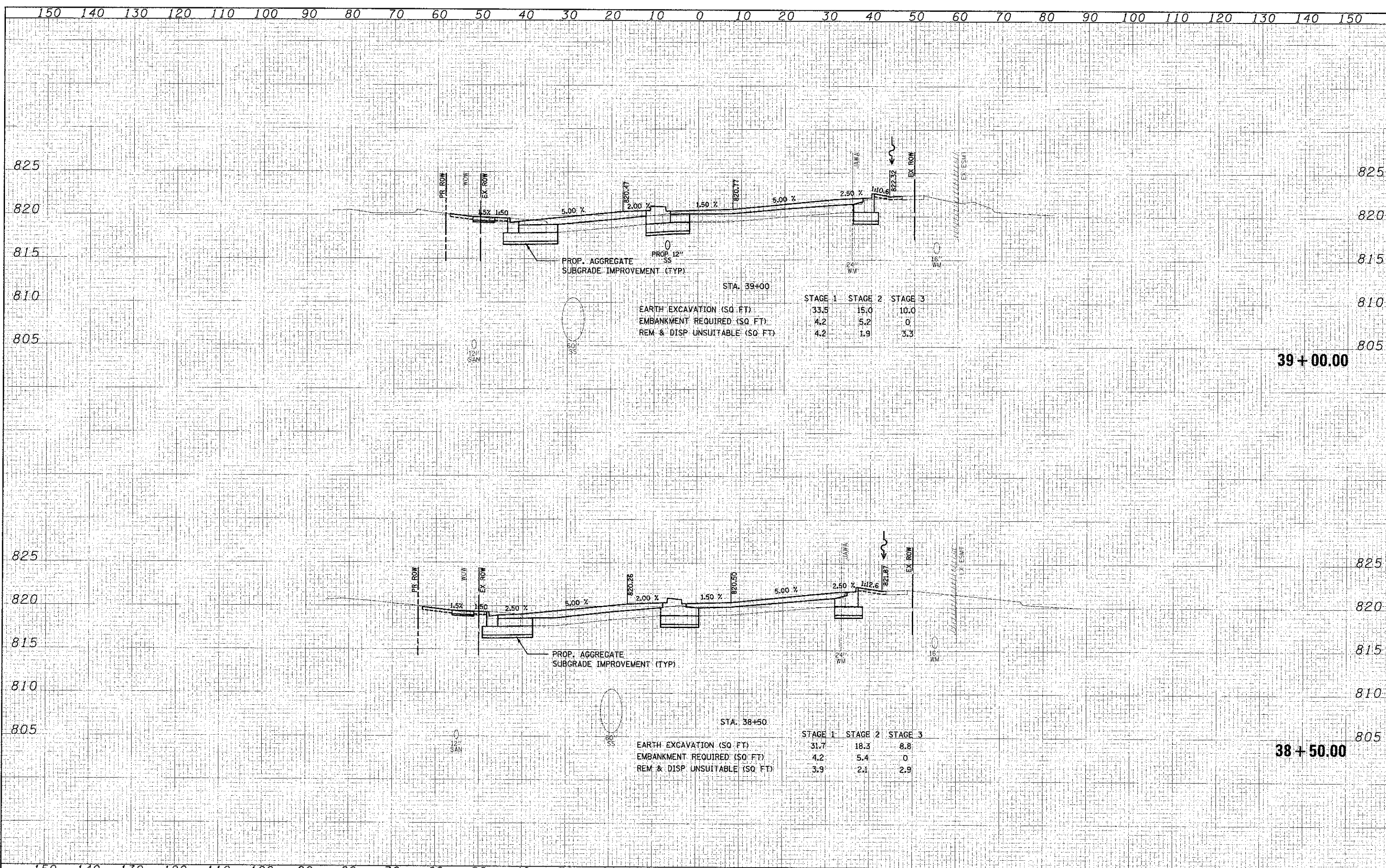
SCHAUMBURG ROAD
CROSS SECTIONS

SCALE: H_v 1"=16'
V_v 1"=3'
SHEET NO. 4 OF 16 SHEETS STA. 37+50.00 TO STA. 38+00.00

F.A.C. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	223
CONTRACT NO. 63629			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT #-CMM-8003053	

DATE: _____ BY: _____
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 NOTE BOOK _____
 AREAS CHECKED _____

DATE: _____ BY: _____
 ORIGINAL SURVEY PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____



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 PLOT DATE = 6/16/2012

DESIGNED - JAT
 DRAWN - CDC
 CHECKED - DJK
 DATE - 8-20-12

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

**SCHAUBURG ROAD
 CROSS SECTIONS**

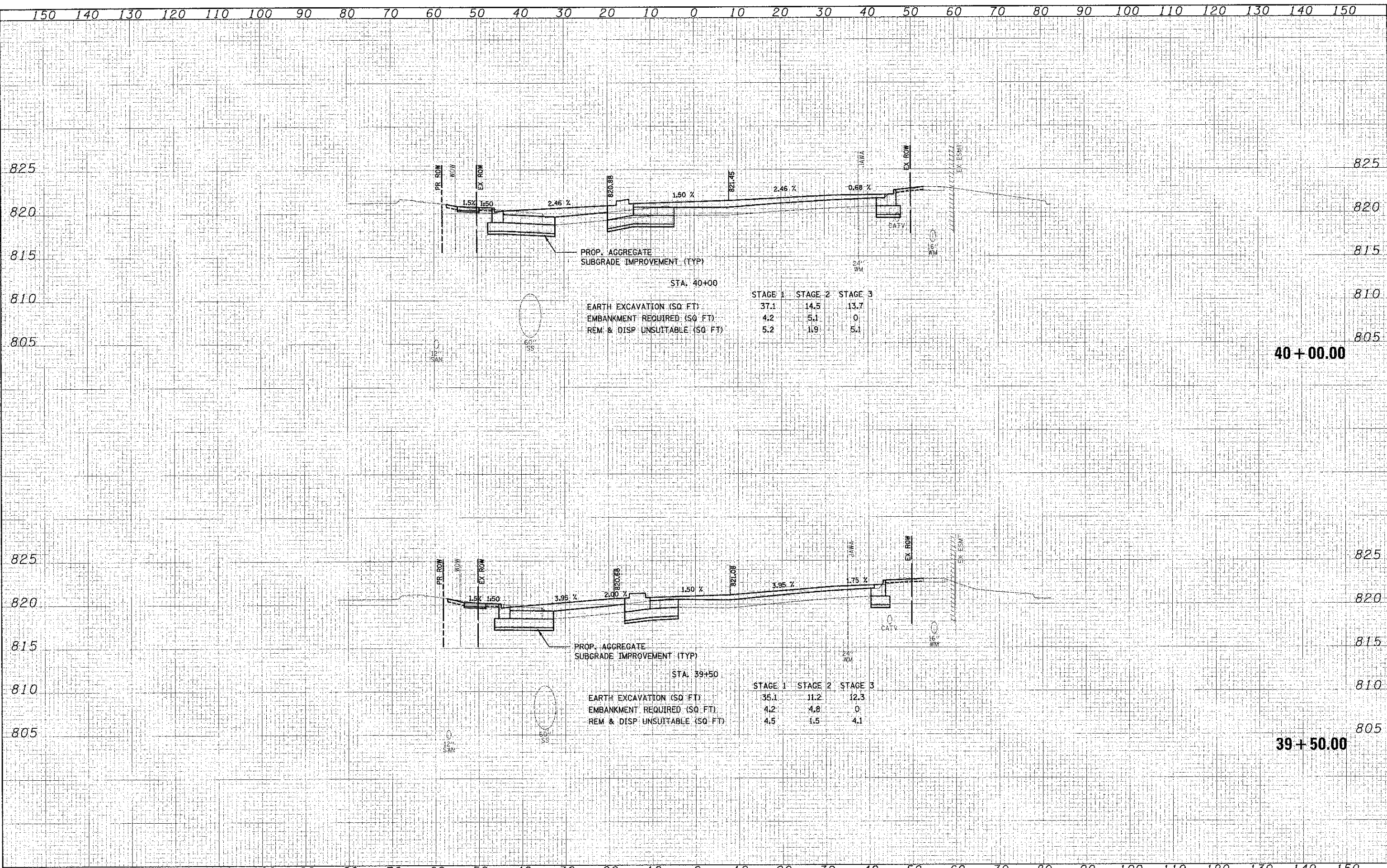
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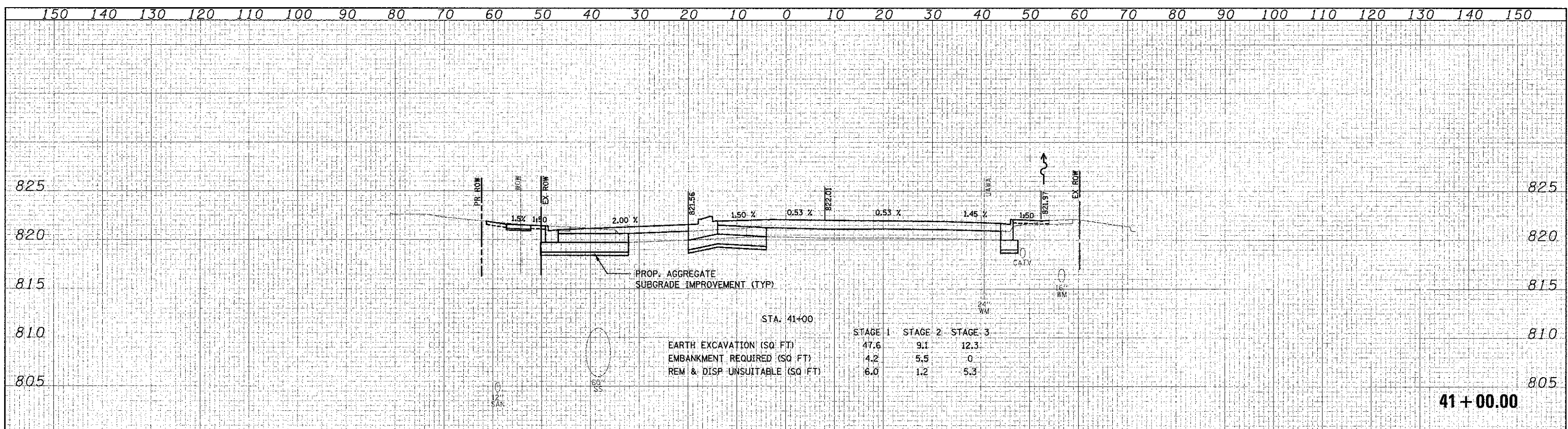
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CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003051				

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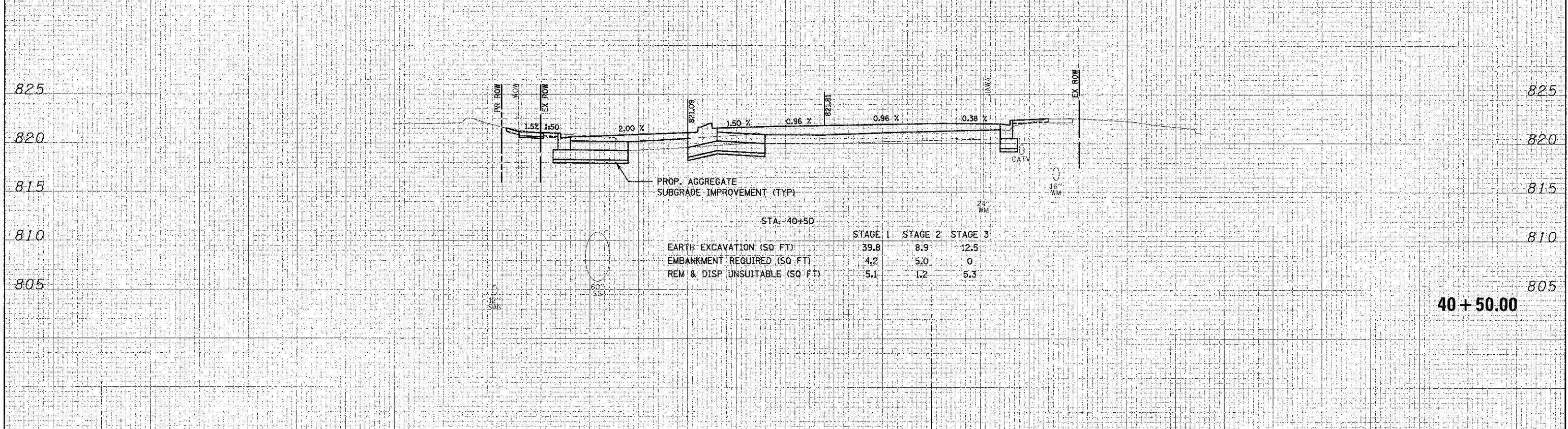


STA. 41+00

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EARTH EXCAVATION (SQ. FT)	47.6	9.1	12.3
EMBANKMENT REQUIRED (SQ. FT)	4.2	5.5	0
REM & DISP UNSUITABLE (SQ. FT)	6.0	1.2	5.3

41 + 00.00

DATE: _____ BY: _____
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STA. 40+50

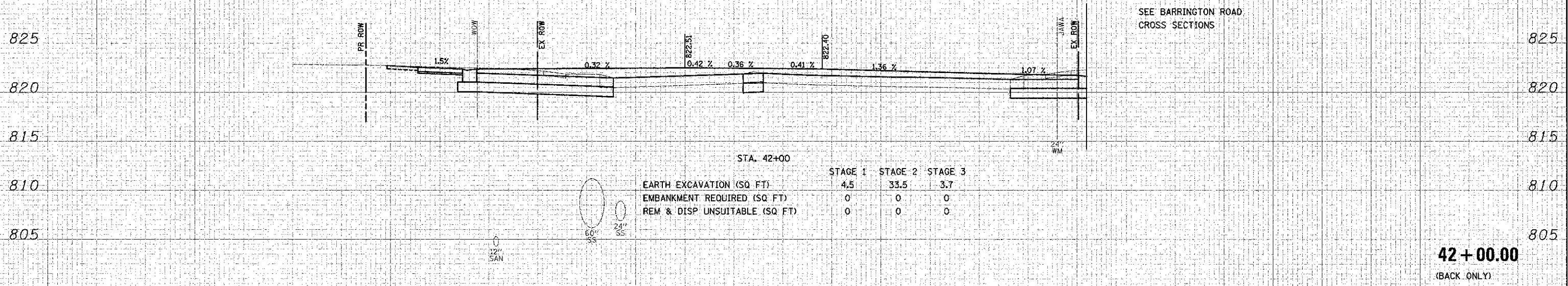
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EARTH EXCAVATION (SQ. FT)	39.8	8.9	12.5
EMBANKMENT REQUIRED (SQ. FT)	4.2	5.0	0
REM & DISP UNSUITABLE (SQ. FT)	5.1	1.2	5.3

40 + 50.00

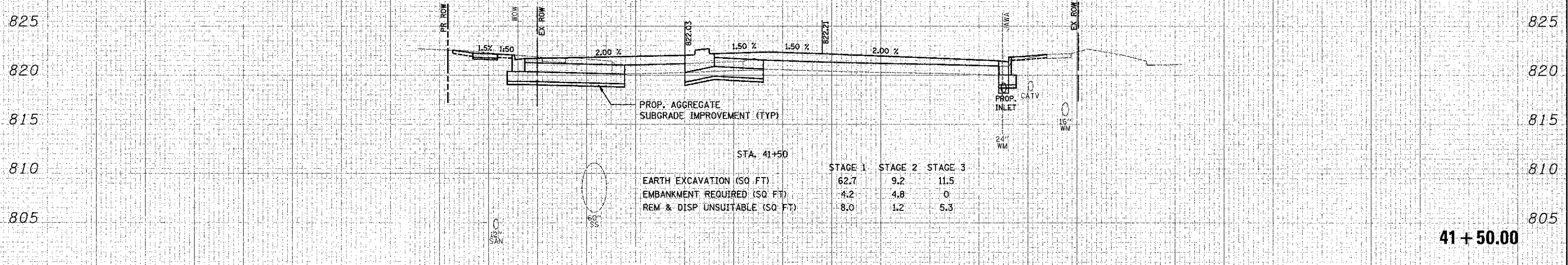
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42 + 00.00
(BACK ONLY)



41 + 50.00

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DRAWN - CDC
CHECKED - DJK
DATE - 8-20-12

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

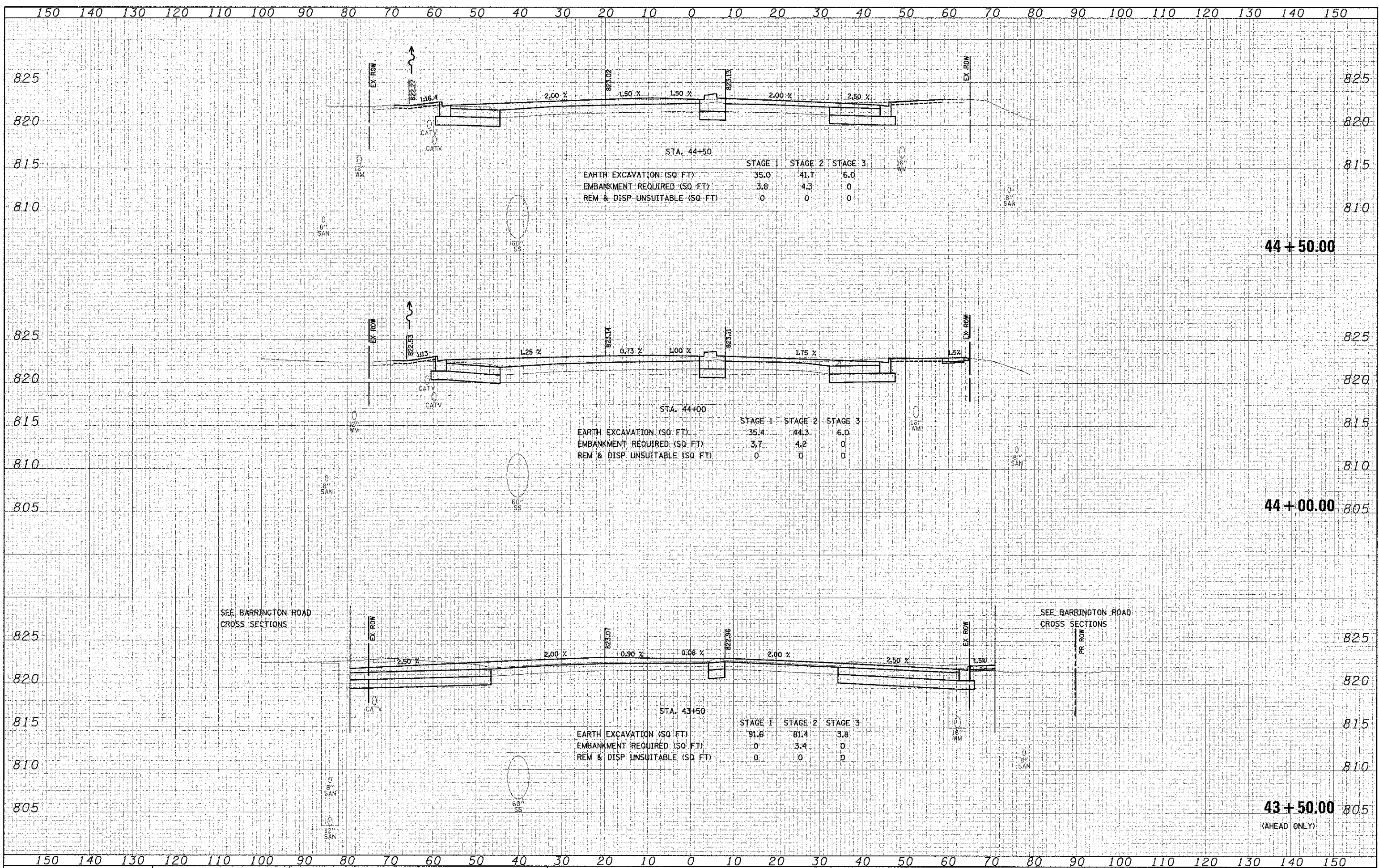
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SHEET NO. 8 OF 16 SHEETS
STA. 41+50.00 TO STA. 42+00.00

**SCHAUMBURG ROAD
CROSS SECTIONS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	227
CONTRACT NO. 63629				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-80030511				

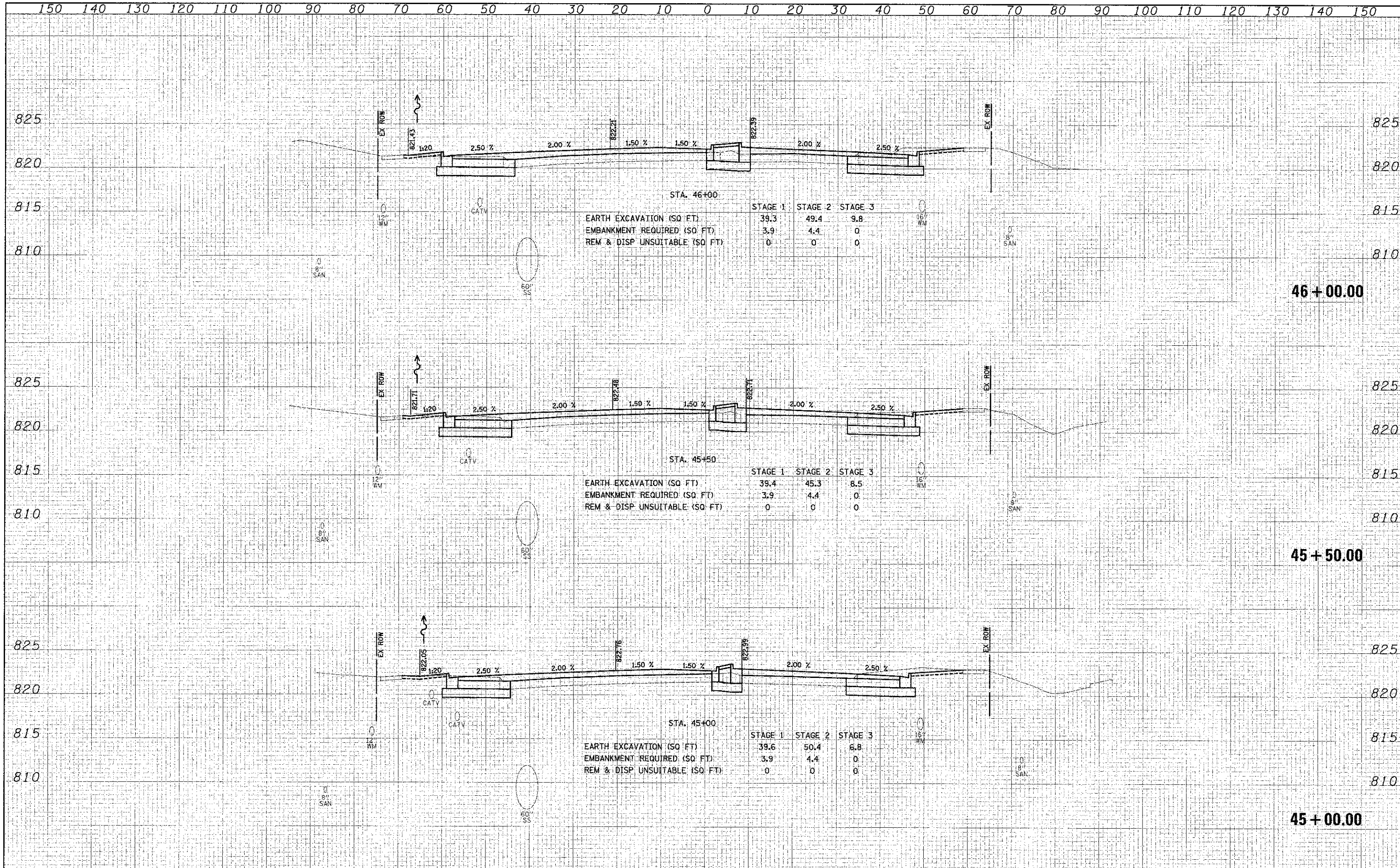
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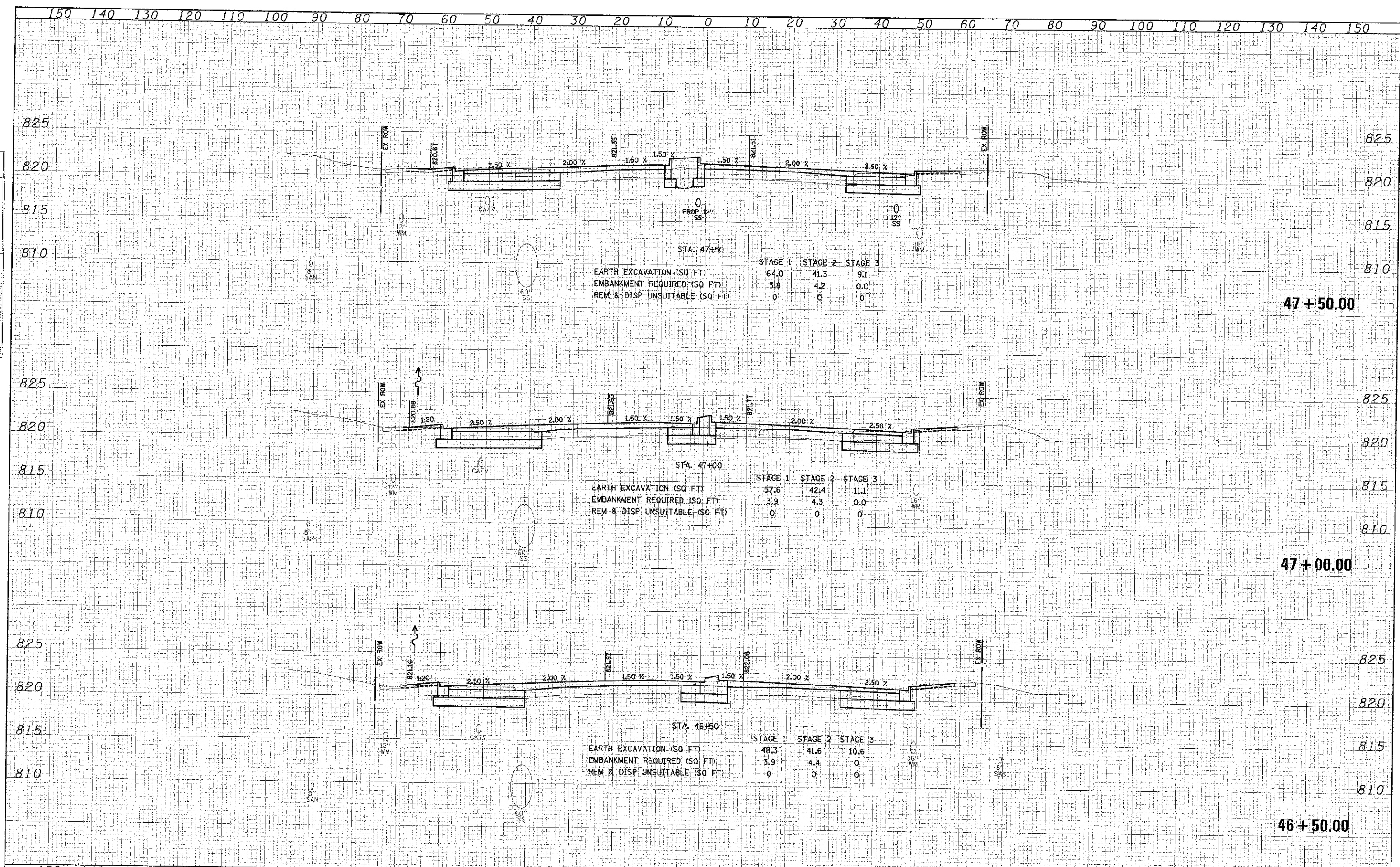
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FILE NAME =	USCH NAME = .dgn	DESIGNED - JAT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHAUMBURG ROAD CROSS SECTIONS	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\2329\road\sheet\2329_xsec.dgn		DRAWN - CDC	REVISED -			1322	01-00074-00-CH	COOK	245	229	
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PLOT DATE = 8/16/2012		DATE - 8-20-12	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CM-80030511					

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 PLOTTED: _____
 AREA: _____
 CHECKER: _____



STA. 47+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	64.0	41.3	9.1
EMBANKMENT REQUIRED (SQ FT)	3.8	4.2	0.0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA. 47+00

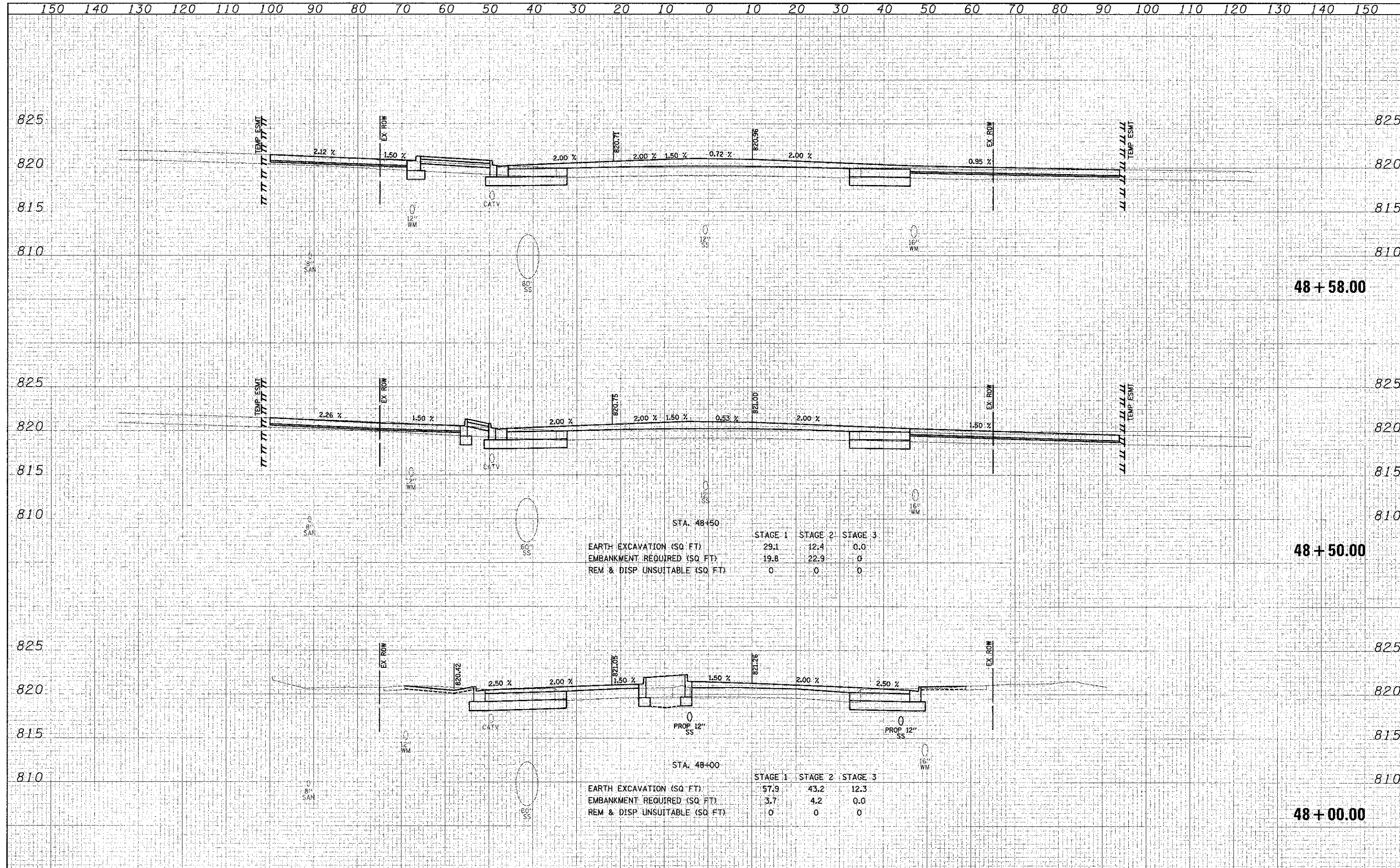
	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	57.6	42.4	11.1
EMBANKMENT REQUIRED (SQ FT)	3.9	4.3	0.0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA. 46+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	48.3	41.6	10.6
EMBANKMENT REQUIRED (SQ FT)	3.9	4.4	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

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STA. 48+50

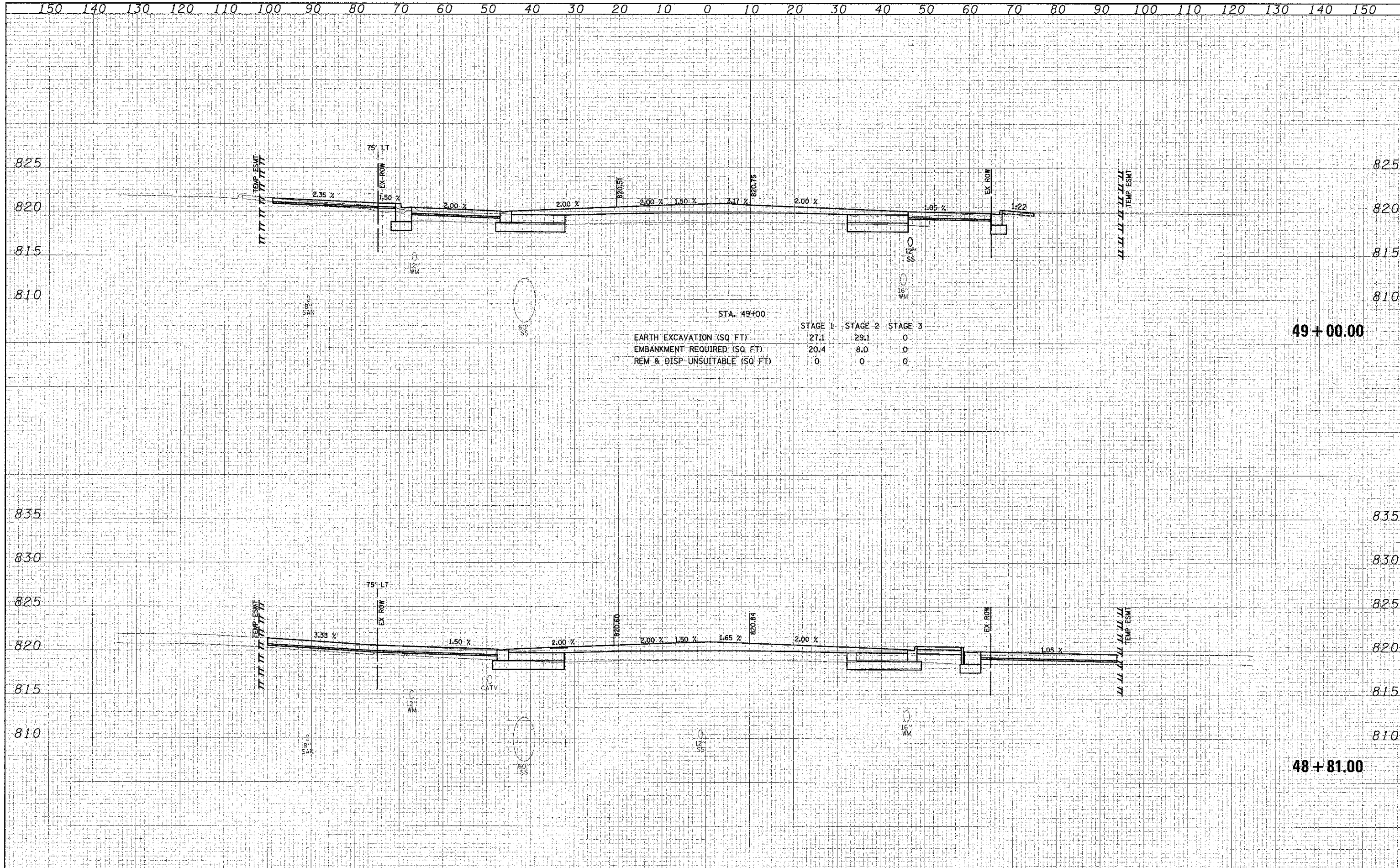
	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	29.1	12.4	0.0
EMBANKMENT REQUIRED (SQ FT)	19.8	22.9	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA. 48+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	57.9	43.2	12.3
EMBANKMENT REQUIRED (SQ FT)	3.7	4.2	0.0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPERATURE
	AREAS CHECKED

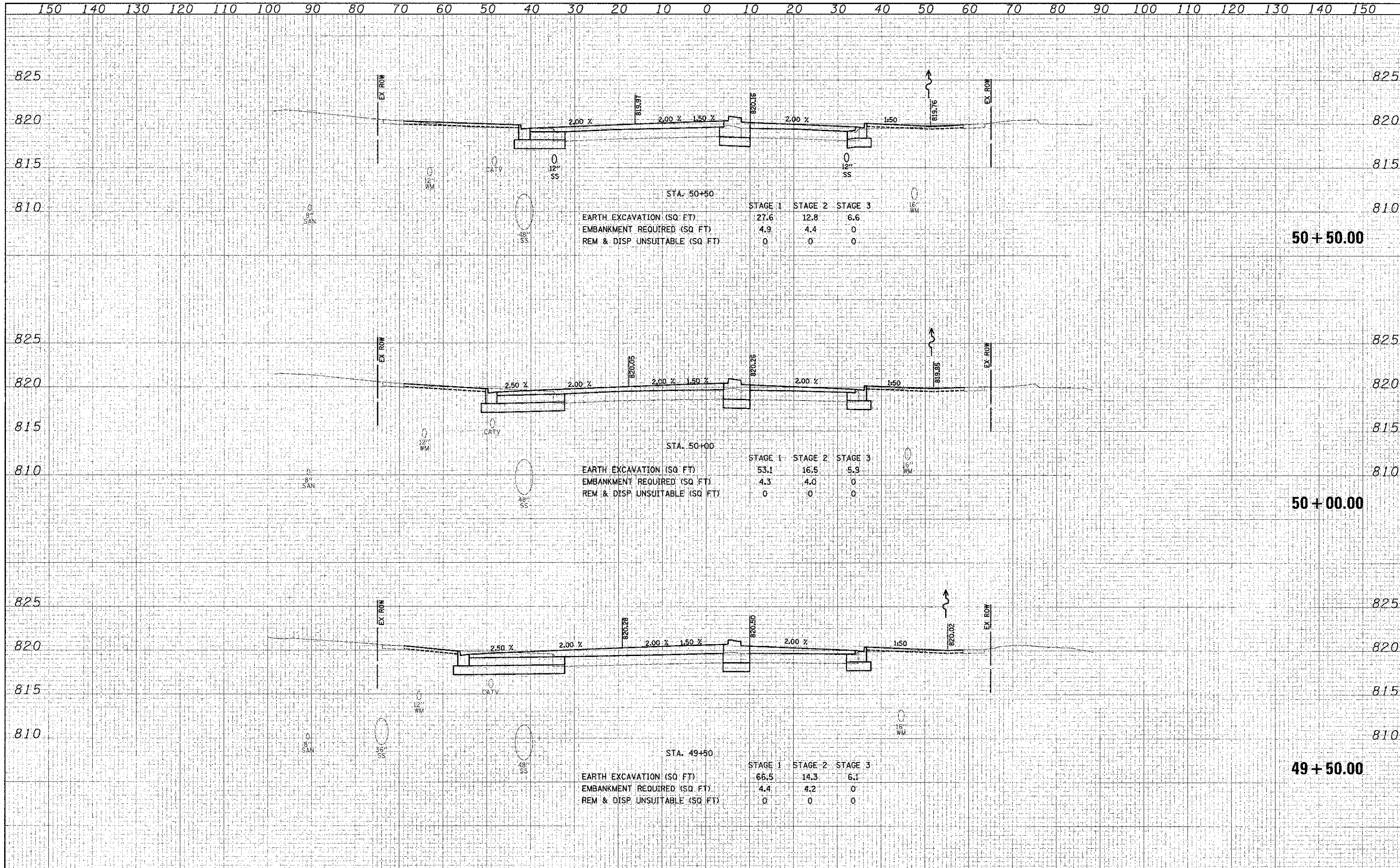
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPERATURE
	AREAS CHECKED



	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	27.1	29.1	0
EMBANKMENT REQUIRED (SQ. FT)	20.4	8.0	0
REM & DISP UNSUITABLE (SQ. FT)	0	0	0

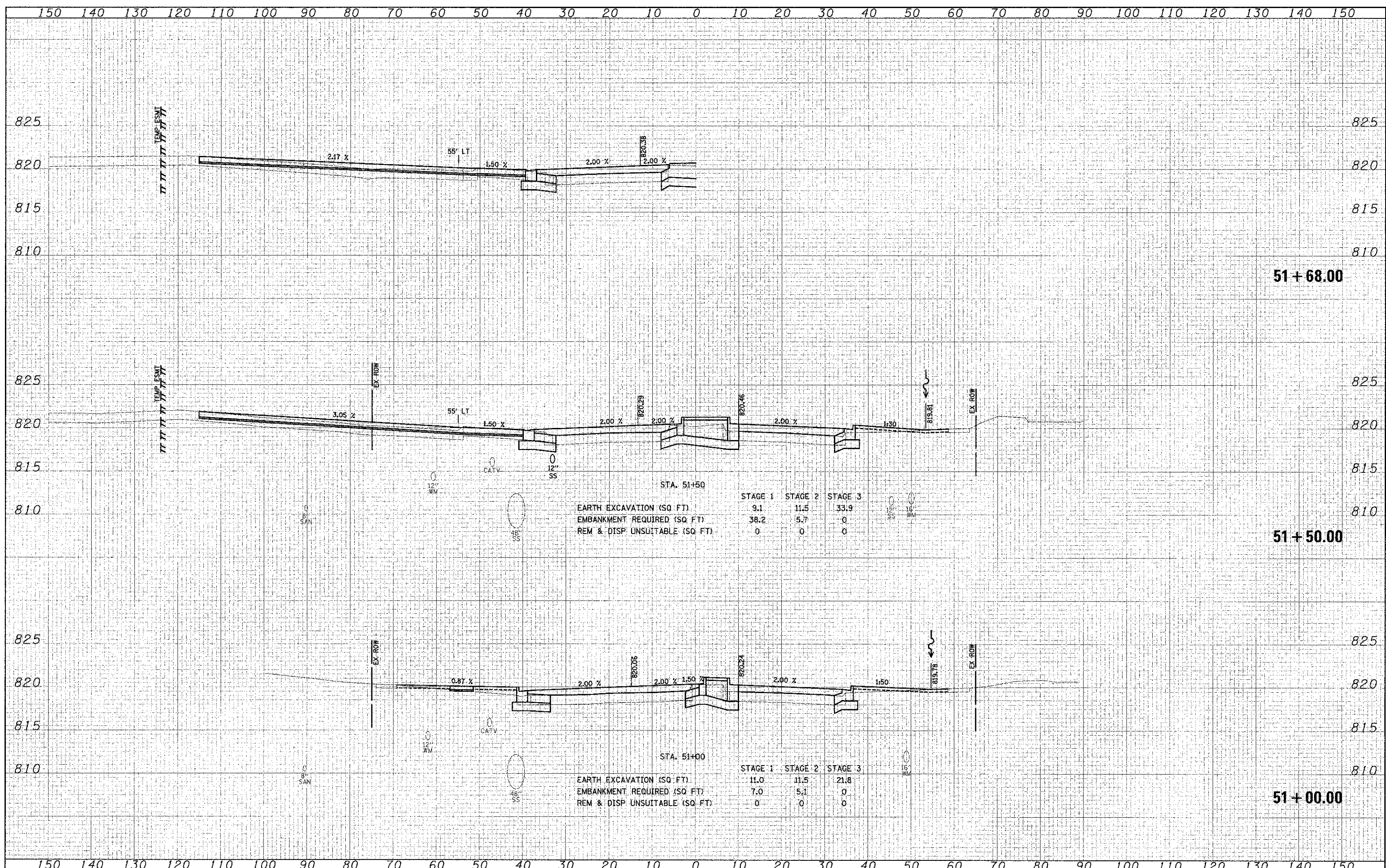
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DATE: _____ BY: _____
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 AREAS CHECKED: _____



DATE	BY
SURVEYED	FLOTTED
TEMPLATE	NO. 17 BOOK
AREAS CHECKED	NO.

DATE	BY
SURVEYED	FLOTTED
TEMPLATE	NO. 17 BOOK
AREAS CHECKED	NO.



STA. 51+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT.)	9.1	11.5	33.9
EMBANKMENT REQUIRED (SQ. FT.)	38.2	5.7	0
REM & DISP. UNSUITABLE (SQ. FT.)	0	0	0

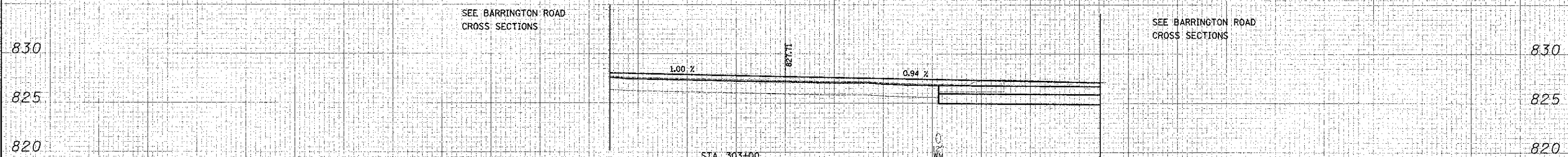
STA. 51+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT.)	11.0	11.5	21.8
EMBANKMENT REQUIRED (SQ. FT.)	7.0	5.1	0
REM & DISP. UNSUITABLE (SQ. FT.)	0	0	0

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

DATE: _____
 BY: _____
 CHECKED: _____
 DESIGNED: _____
 DRAWN: _____
 FILED: _____
 NO. OF SHEETS: _____

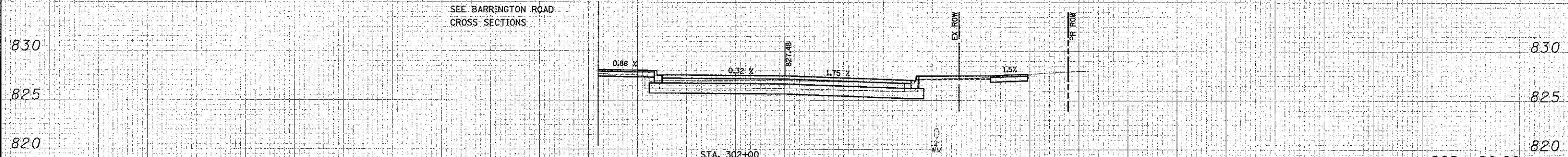
DATE: _____
 BY: _____
 CHECKED: _____
 DESIGNED: _____
 DRAWN: _____
 FILED: _____
 NO. OF SHEETS: _____



STA. 303+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	0	0	0
EMBANKMENT REQUIRED (SQ. FT)	0	0	0
REM & DISP. UNSUITABLE (SQ. FT)	0	0	0

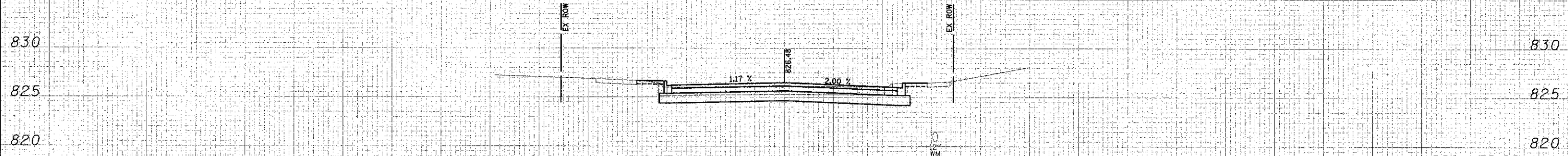
303 + 00.00
 (AHEAD ONLY)



STA. 302+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	41.8	0	0
EMBANKMENT REQUIRED (SQ. FT)	5.4	0	0
REM & DISP. UNSUITABLE (SQ. FT)	0	0	0

302 + 00.00
 (BACK ONLY)



STA. 301+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	50.2	0	0
EMBANKMENT REQUIRED (SQ. FT)	5.7	0	0
REM & DISP. UNSUITABLE (SQ. FT)	0	0	0

301 + 50.00

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

FILE NAME = ... \2329\road\12101\2329...xsecs.dgn

USER NAME = kpk
 PLOT SCALE = 10.0000 ft / in.
 PLOT DATE = 9/20/2012

DESIGNED - JAT
 DRAWN - CDC
 CHECKED - DJK
 DATE - 8-20-12

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**HOLMES WAY
 CROSS SECTIONS**

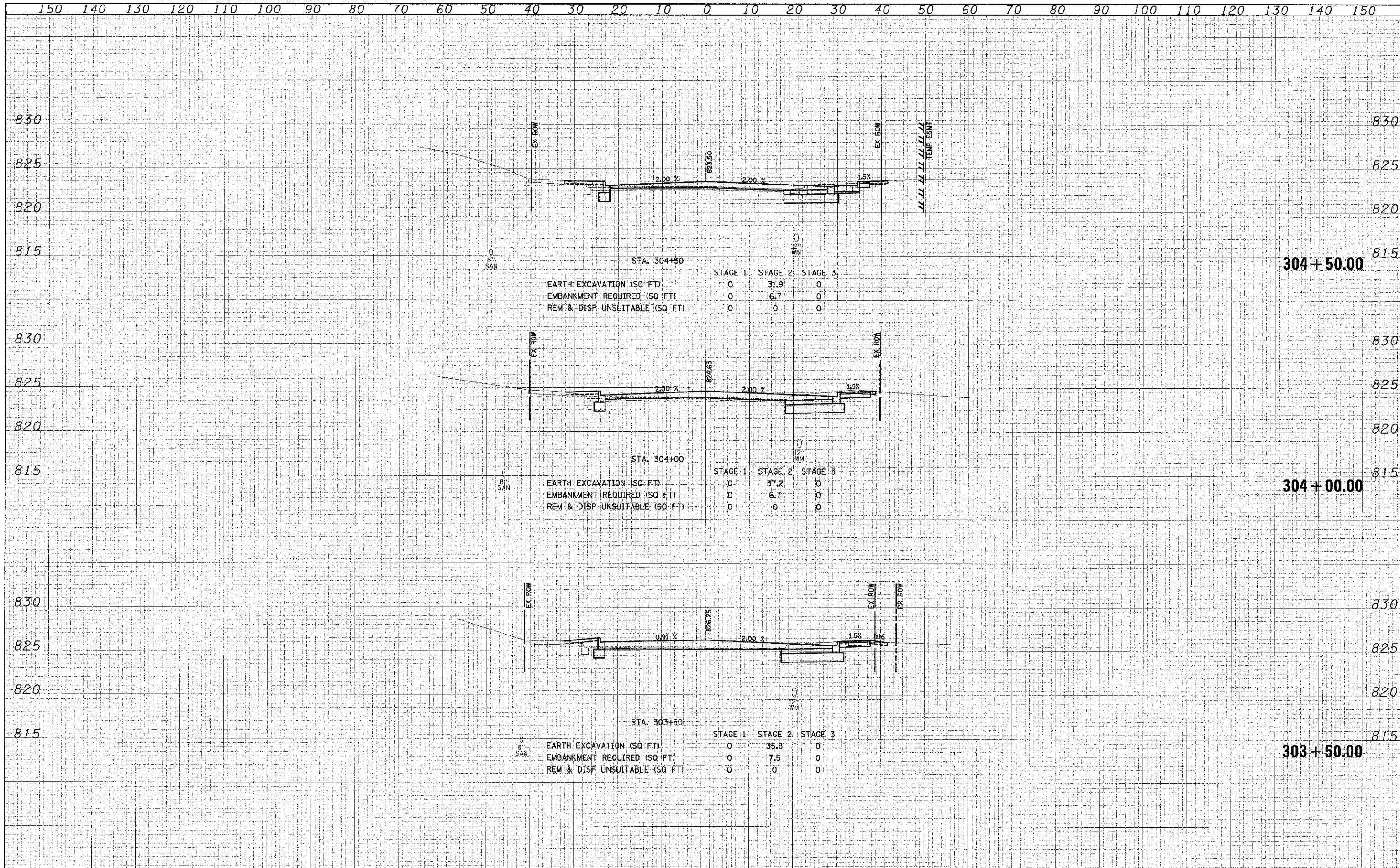
SCALE: H 1"=10'
 V 1"=5'
 SHEET NO. 3 OF 6 SHEETS STA. 301+50.00 TO STA. 303+00.00

F.A.U. RTL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1322	01-00074-00-CH	COOK	245	238

CONTRACT NO. 63629
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-CMM-8003051

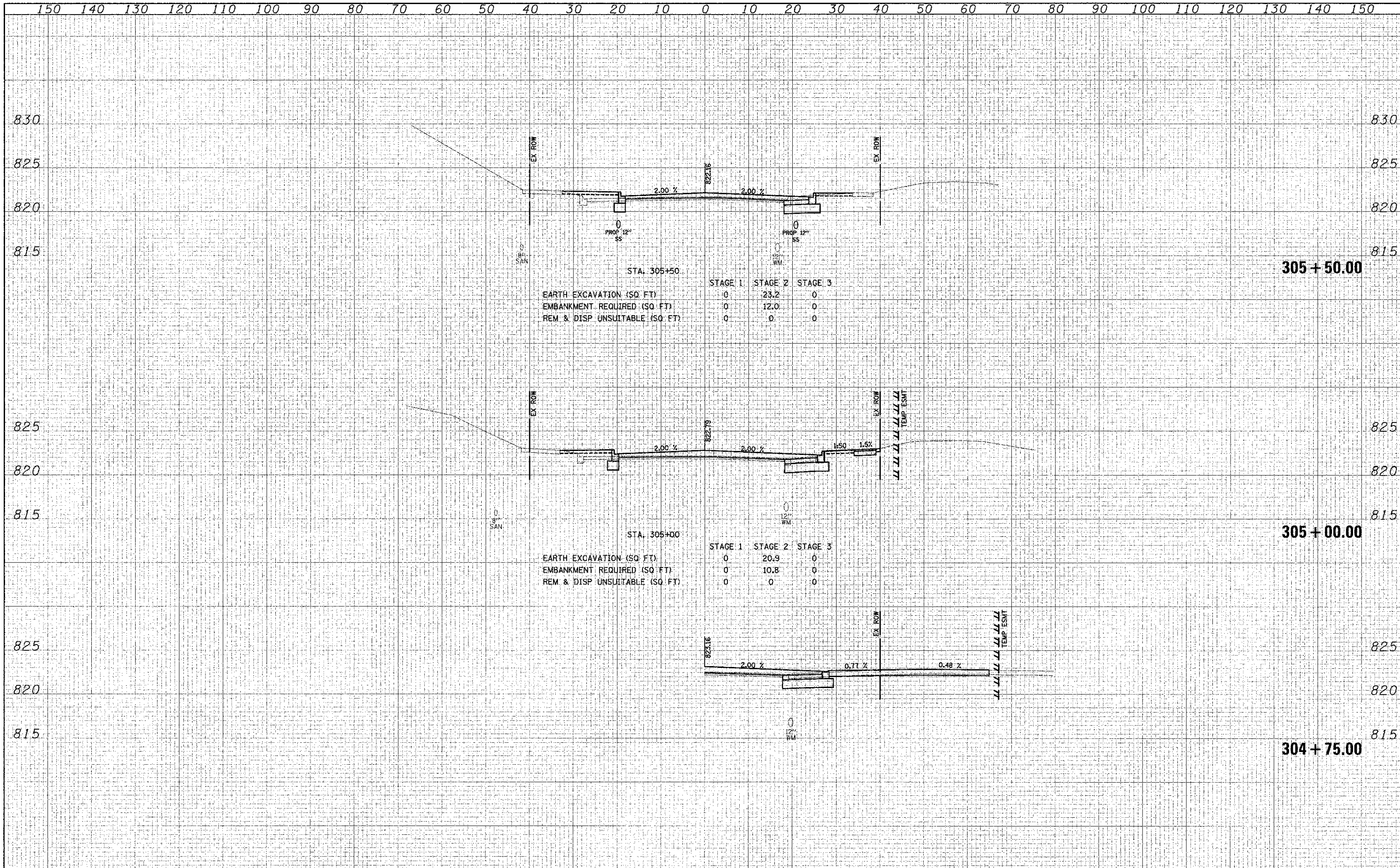
DATE: _____
 BY: _____
 CHECKED: _____
 DESIGNED: _____
 DRAWN: _____
 PLOTTED: _____
 SURVEYED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____

DATE: _____
 BY: _____
 CHECKED: _____
 DESIGNED: _____
 DRAWN: _____
 PLOTTED: _____
 SURVEYED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREAS CHECKED: _____



DATE	
BY	
REVIEWED	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
REVIEWED	
DESIGNED	
DRAWN	
CHECKED	
DATE	



STA. 305+50

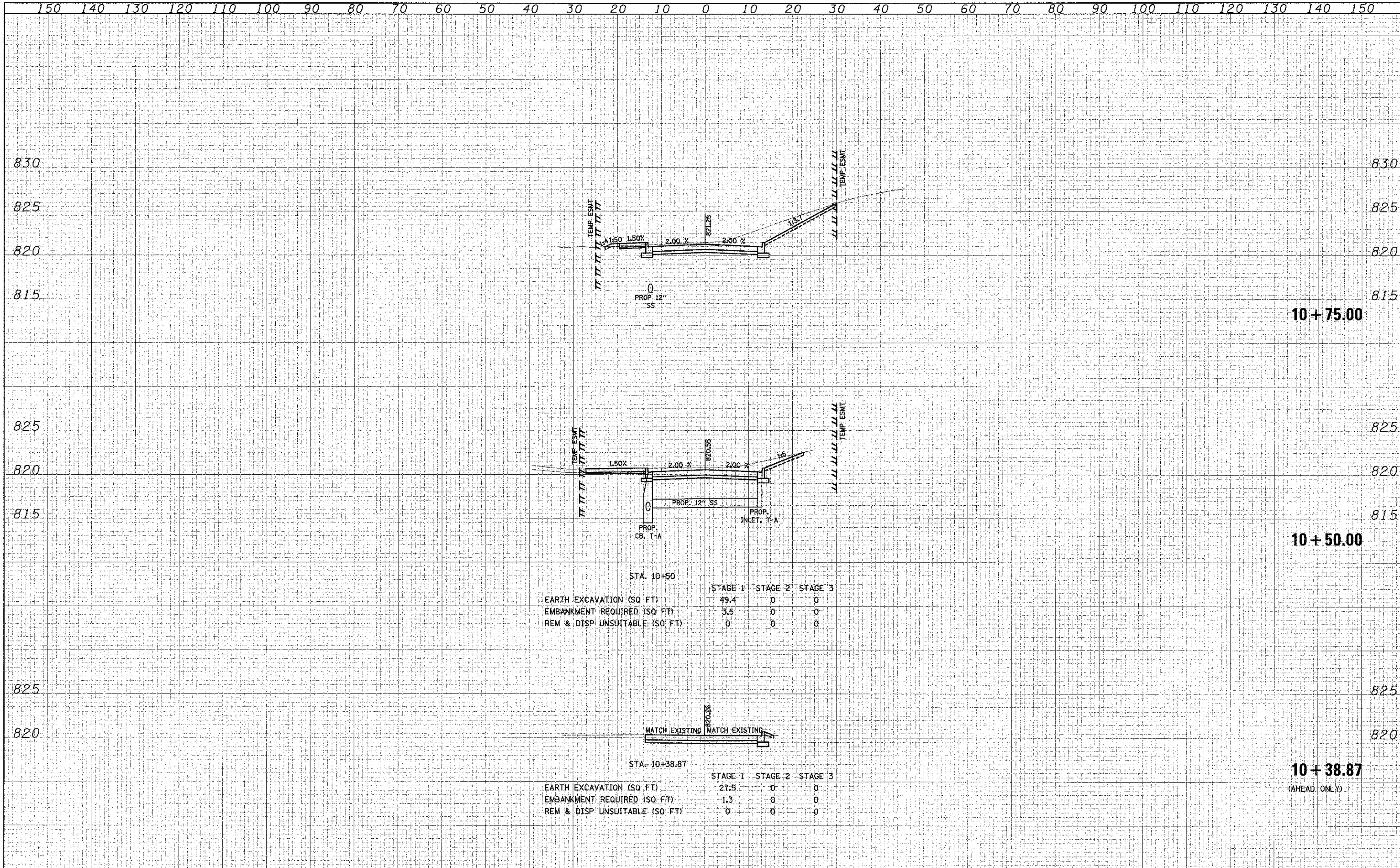
	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	0	23.2	0
EMBANKMENT REQUIRED (SQ. FT)	0	12.0	0
REM. & DISP UNSUITABLE (SQ. FT)	0	0	0

STA. 305+00

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ. FT)	0	20.9	0
EMBANKMENT REQUIRED (SQ. FT)	0	10.8	0
REM. & DISP UNSUITABLE (SQ. FT)	0	0	0

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLANNED	
REVISIONS	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLANNED	
REVISIONS	
AREAS CHECKED	



STA. 10+50

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	49.4	0	0
EMBANKMENT REQUIRED (SQ FT)	3.5	0	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

STA. 10+38.87

	STAGE 1	STAGE 2	STAGE 3
EARTH EXCAVATION (SQ FT)	27.5	0	0
EMBANKMENT REQUIRED (SQ FT)	1.3	0	0
REM & DISP UNSUITABLE (SQ FT)	0	0	0

