

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
 LICENSE NO. 384-00121 - EXPIRES 4/30/2019
 REGIONS 2/1/2009 18844 AM
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BAXTER & WOODMAN
 Consulting Engineers

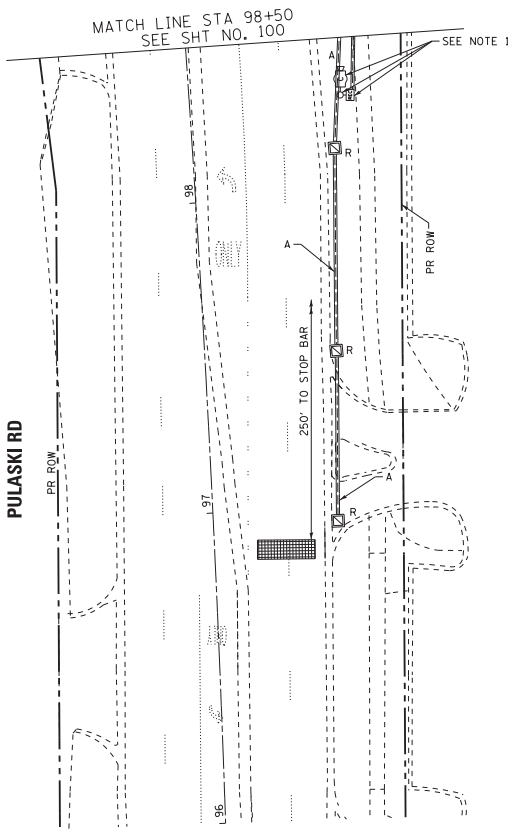
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DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559-TS-Temp_PreStage_Plan2.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN PRE-STAGE (SHEET 2 OF 2) PULASKI RD AND 183RD ST		F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	SHEET NO.
SCALE: 1"=20'		3778	04-00026-01-WR	COOK	161	101
SHEET	OF	SHEETS		STA.	TO STA.	

FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		CONTRACT NO. 61085	
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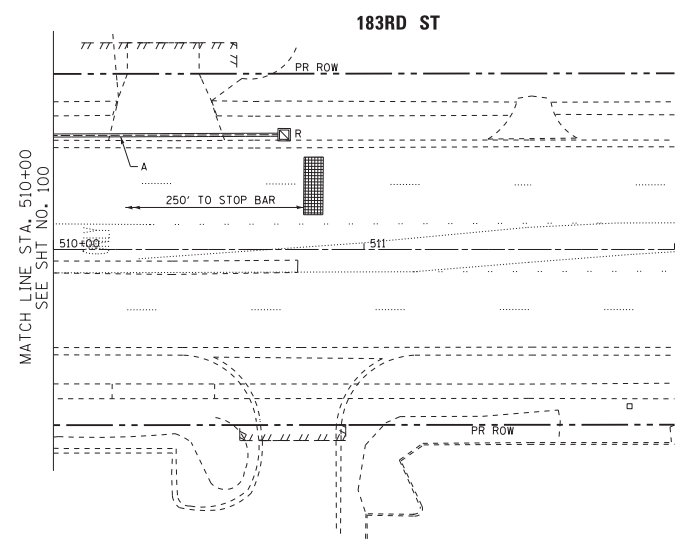
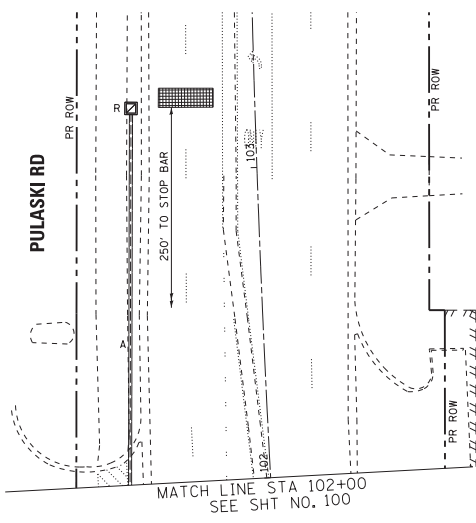
TS 4095
 EAGLE 30



RED LIGHT INSTALLATION LEGEND

- RED LIGHT ENFORCEMENT CAMERA
- RED LIGHT ENFORCEMENT CABINET

- NOTES:**
- RED LIGHT CAMERA EQUIPMENT POLES, CABINET, FOUNDATIONS, HANDHOLES, CABLES, SERVICE, METER, SIGNS, AND SIGN POSTS TO BE REMOVED AND REINSTALLED BY OTHERS. WIRELESS DETECTOR SENSORS SHALL ALSO BE REPLACED BY OTHERS.



MATCH LINE STA. 510+00
 SEE SHT NO. 100

510+00

514+00



SEE SHT NO.103
MATCH LINE STA. 102+00

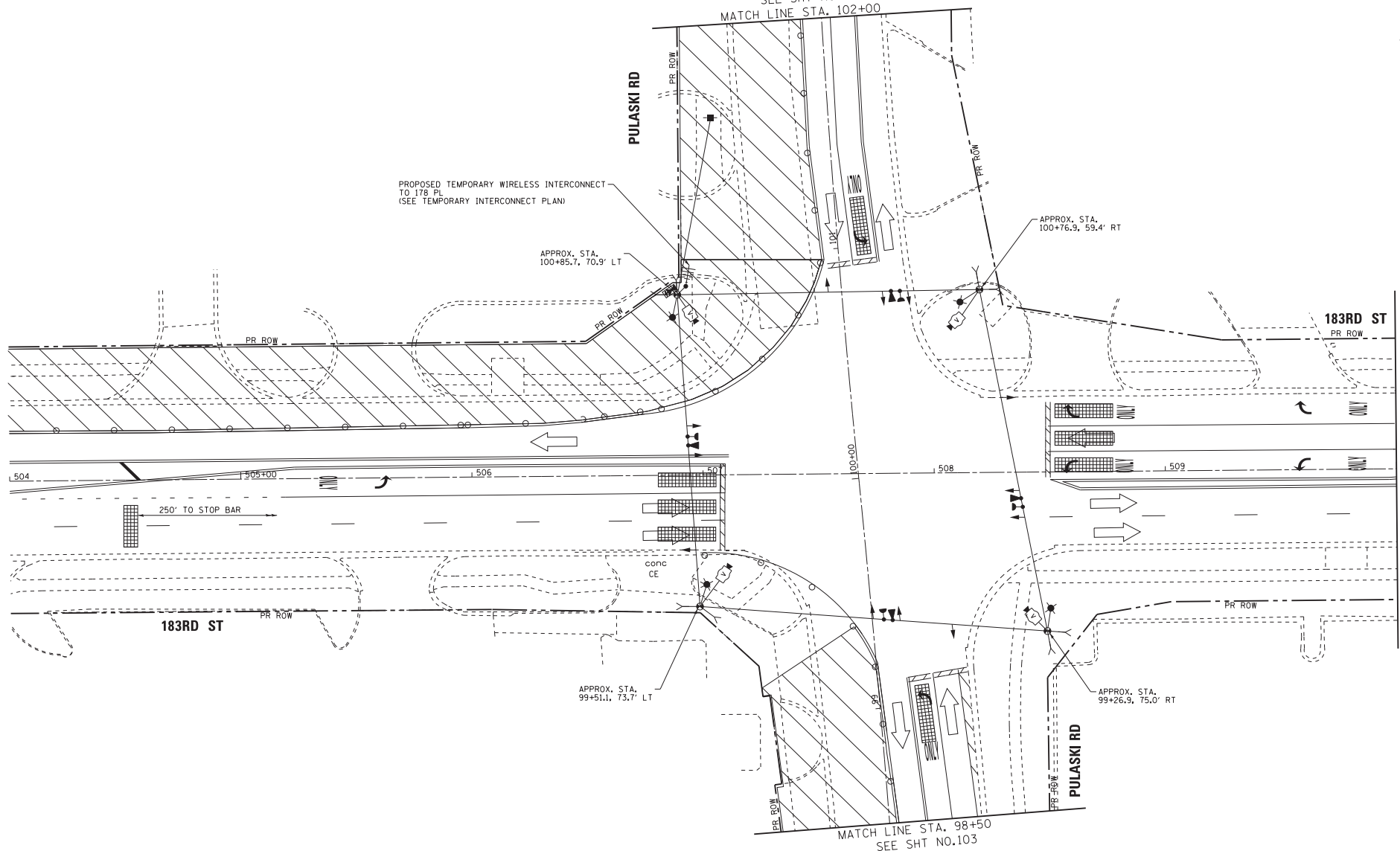
PROPOSED TEMPORARY WIRELESS INTERCONNECT
TO I78 PL
(SEE TEMPORARY INTERCONNECT PLAN)

APPROX. STA.
100+85.7, 70.9' LT

APPROX. STA.
100+76.3, 59.4' RT

183RD ST
PR ROW

MATCH LINE STA. 510+00
SEE SHT NO. 103



SIGNAL HEAD PLACEMENT FOR STAGE 1A

**TS 4095
EAGLE 30**

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 DESIGNER: 2/1/2009
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 DRAWING: \\s:\projects\4095\4095.dwg
 SURVEY: \\s:\projects\4095\4095.dwg
 CADD: \\s:\projects\4095\4095.dwg
 USER: \\s:\projects\4095\4095.dwg
 DATE: 10/8/18



DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Temp_Stage1A_Plan1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN	
STAGE 1A	
(SHEET 1 OF 2) PULASKI RD AND 183RD ST	
SCALE: 1"=20'	SHEET OF SHEETS
STA.	TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
377B	04-00026-01-WR	COOK	161	102
CONTRACT NO. 61085			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
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BAXTER & WOODMAN
 Consulting Engineers

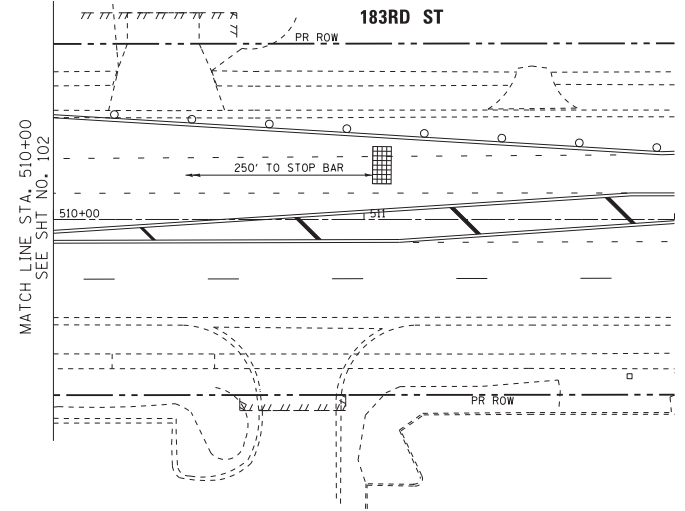
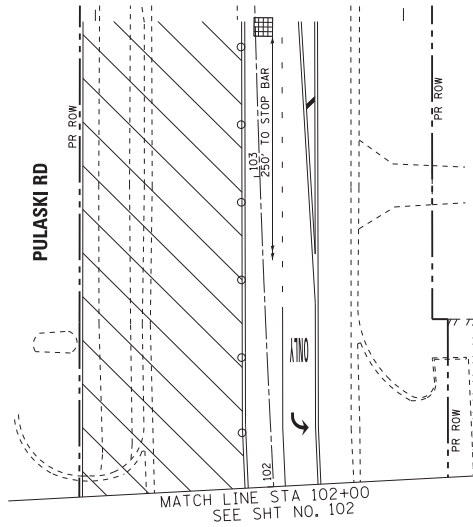
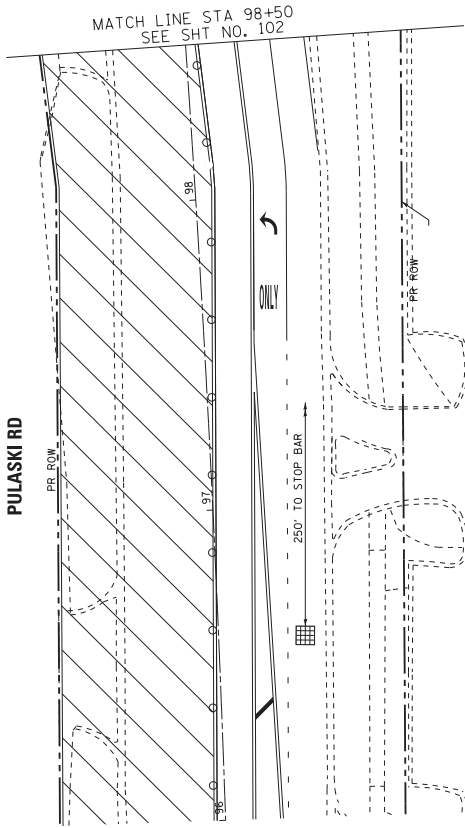
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DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559-TS-Temp_Signage1A_Plan2.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN			
STAGE 1A			
(SHEET 2 OF 2) PULASKI RD AND 183RD ST			
SCALE: 1"=20'	SHEET	OF	SHEETS
STA.	TO STA.		

F.A. No.	SECTION	COUNTY	TOTAL SHEETS
3778	04-00026-01-WR	COOK	161
			103
			CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

TS 4095
 EAGLE 30



STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
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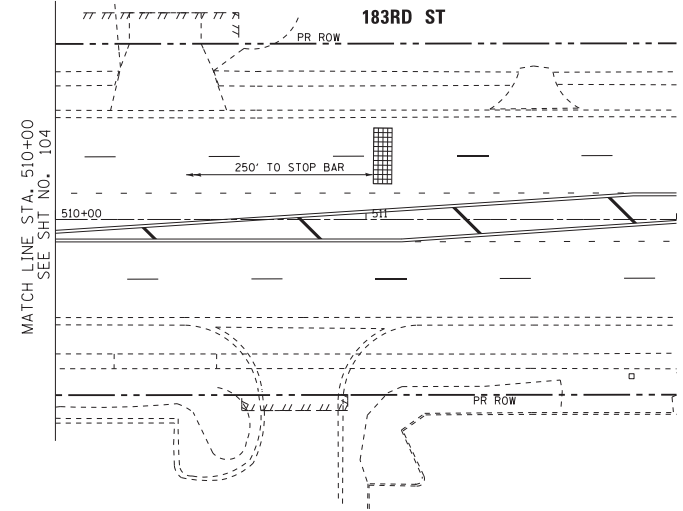
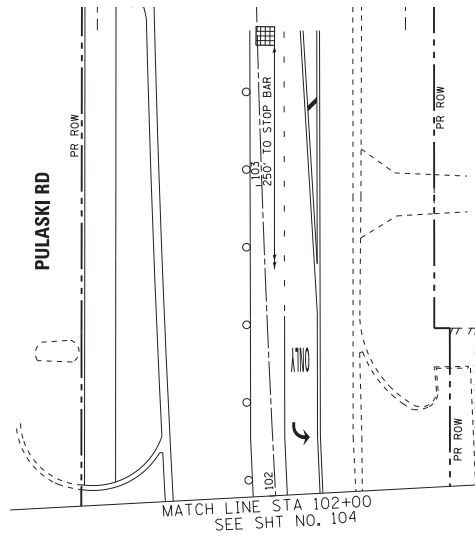
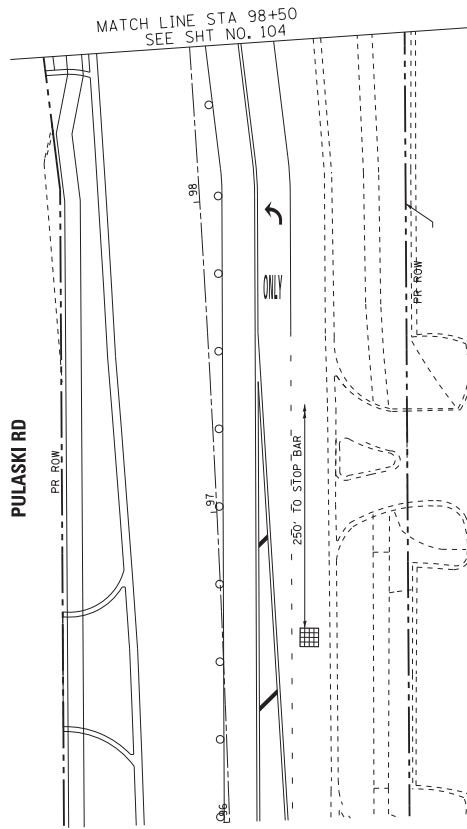
BAXTER & WOODMAN
 Consulting Engineers

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DRAWN	- LKB	REVISED	-
CHECKED	- DTH	REVISED	-
DATE	- 10-8-18	FILE	- 061559_15-Temp_Stage1B_Plan2.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN			
STAGE 1B			
(SHEET 2 OF 2) PULASKI RD AND 183RD ST			
SCALE: 1"=20'	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.U. FILE	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161
CONTRACT NO. 61085			105
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			



TS 4095
 EAGLE 30

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
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 Consulting Engineers

DESIGNED - RWL	REVISED -
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CHECKED - DTH	REVISED -
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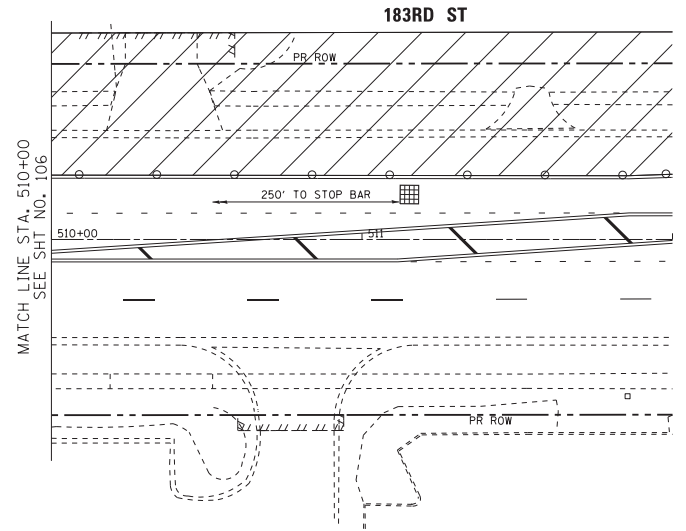
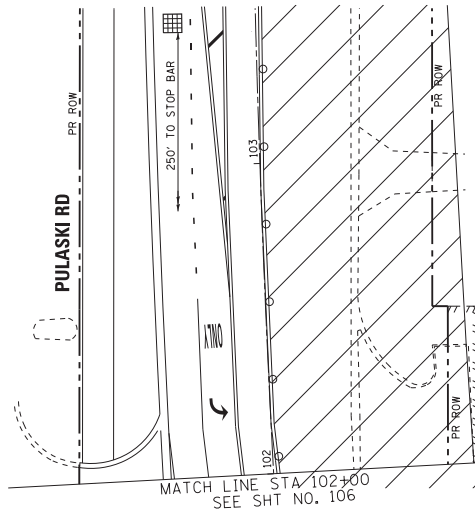
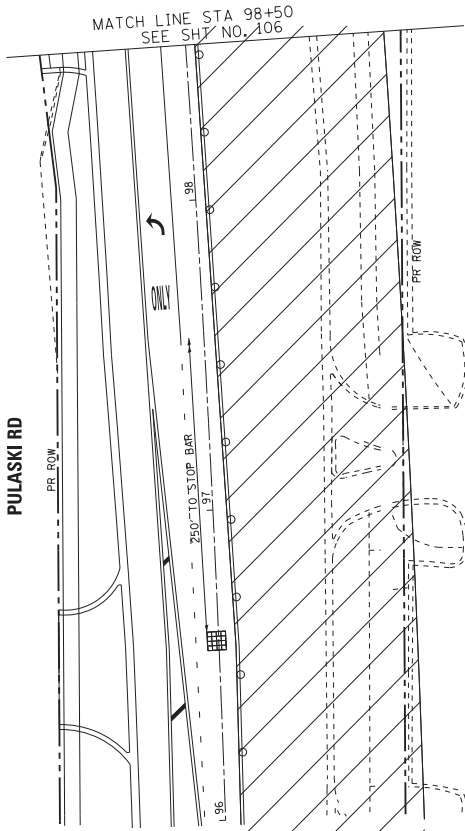
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 STAGE 2A
 (SHEET 2 OF 2) PULASKI RD AND 183RD ST

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

F.A.U. DIST.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 107
			CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			

TS 4095
 EAGLE 30



STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
 LICENSE NO. 384-00121 - EXPIRES 4/30/2019
 REGISTRATION 2717209 89500 AM
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 DATE: 10/8/18
 FILE: 061559_TS-Temp_Stage2B_Plan2.dgn

BAXTER & WOODMAN
 Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Temp_Stage2B_Plan2.dgn

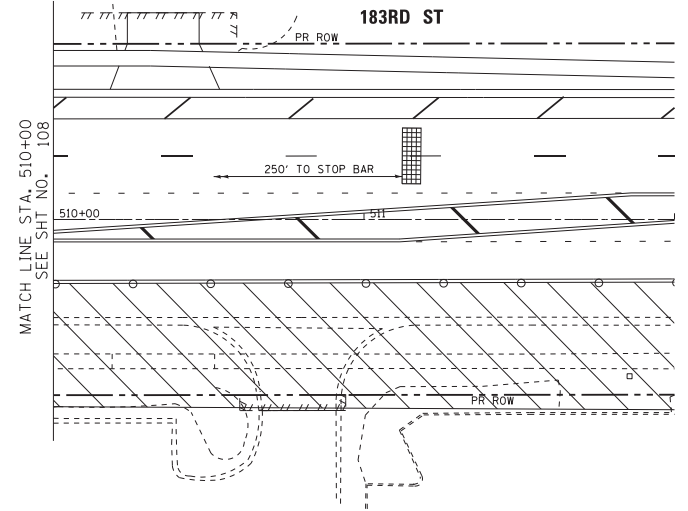
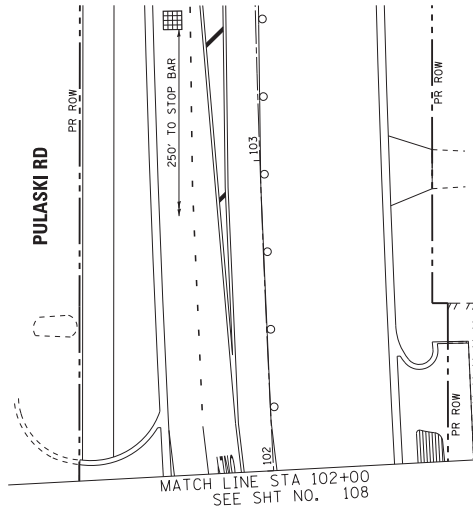
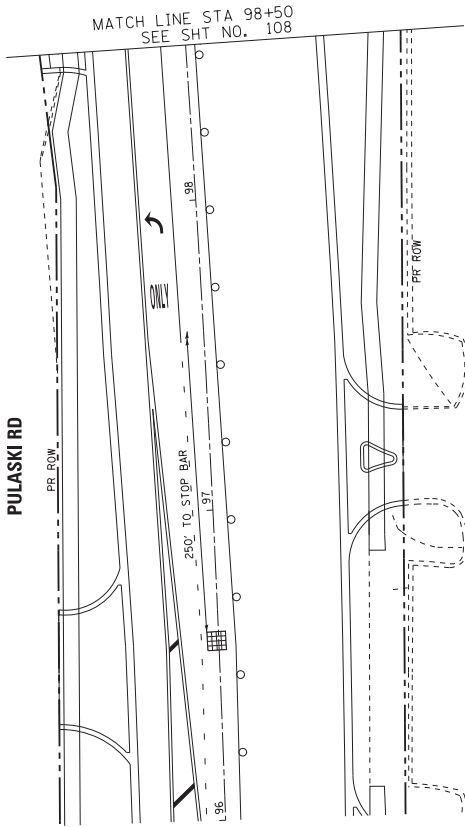
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 STAGE 2B
 (SHEET 2 OF 2) PULASKI RD AND 183RD ST

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

F.A.U. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	109
				CONTRACT NO. 610R5
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

TS 4095
 EAGLE 30





SEE SHT NO. 111
MATCH LINE STA. 102+00

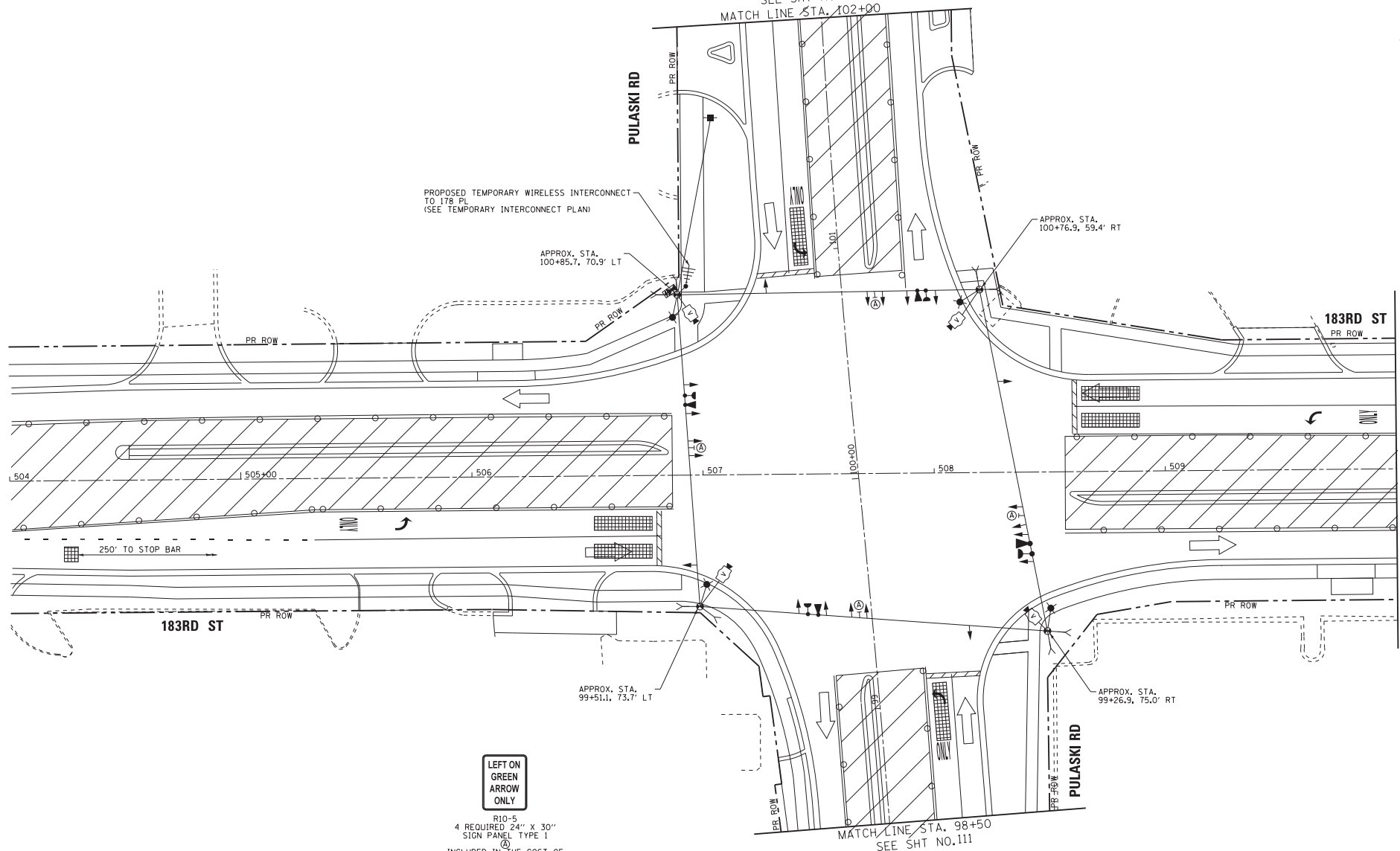
PROPOSED TEMPORARY WIRELESS INTERCONNECT
TO 178 PL
(SEE TEMPORARY INTERCONNECT PLAN)

APPROX. STA.
100+85.7, 70.9' LT

APPROX. STA.
100+76.3, 59.4' RT

183RD ST

MATCH LINE STA. 510+00
SEE SHT NO. 111



LEFT ON
GREEN
ARROW
ONLY

R10-5
4 REQUIRED 24" X 30"
SIGN PANEL TYPE 1
INCLUDED IN THE COST OF
TEMPORARY TRAFFIC SIGNAL
INSTALLATION

SIGNAL HEAD PLACEMENT FOR STAGE 3

**TS 4095
EAGLE 30**

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
LICENSE NO. 061559-183RD-PULASKI RD
ISSUED 2/27/2019
EXPIRES 2/27/2029
FILED 06/15/19 10:08 AM
BAXTER & WOODMAN ENGINEERS
1500 W. MONROE ST., SUITE 200
CHICAGO, IL 60606

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559-TS-Temp.Stage3.Plan1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN	
STAGE 3	
(SHEET 1 OF 2) PULASKI RD AND 183RD ST	
SCALE: 1"=20'	SHEET OF SHEETS
STA.	TO STA.

F.A.U. No.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 110
			CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 REG. NO. 2712069 89607 AM
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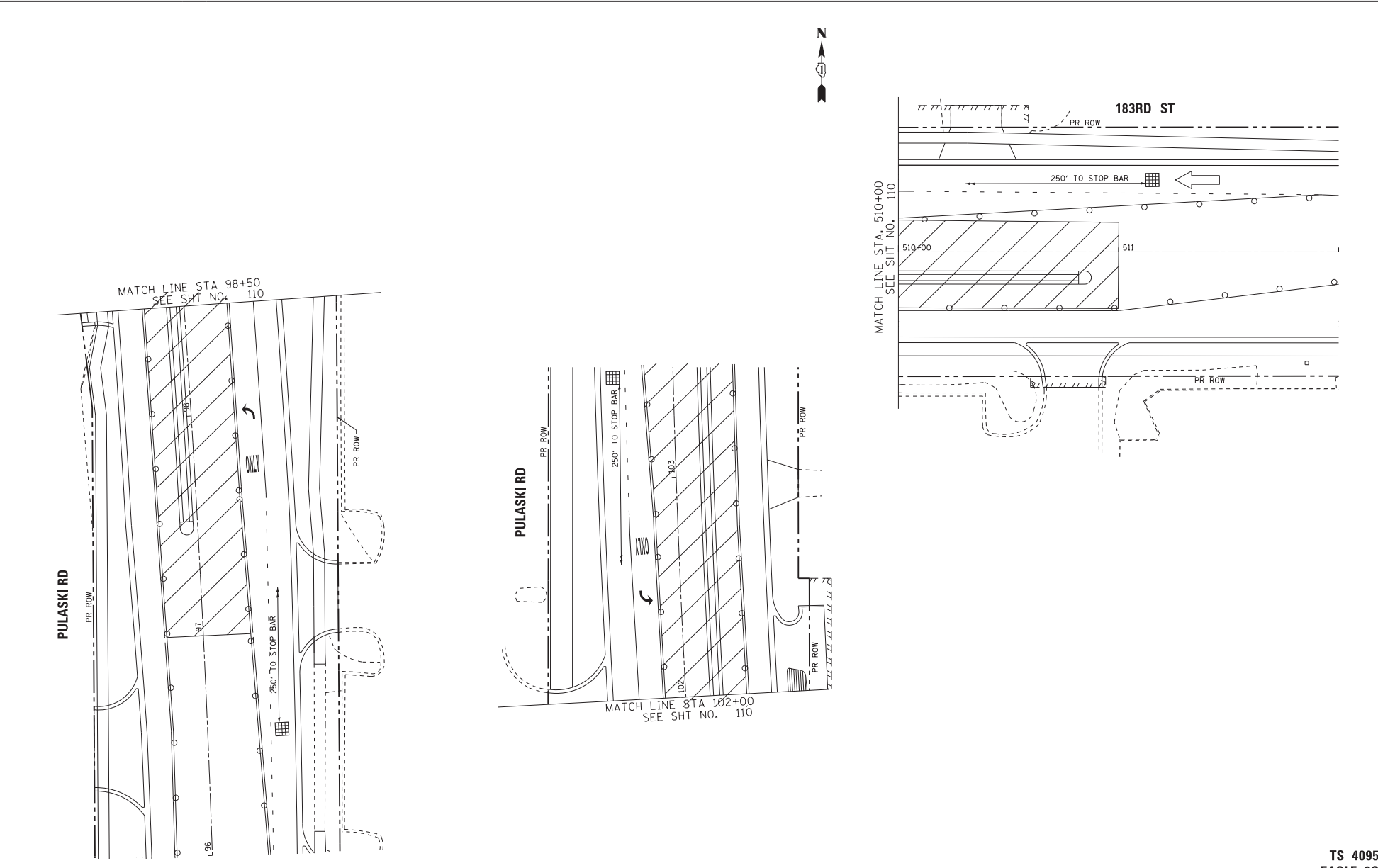
BAXTER & WOODMAN
 Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TSI-Temp_Signals_Plan2.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 STAGE 3
 (SHEET 2 OF 2) PULASKI RD AND 183RD ST

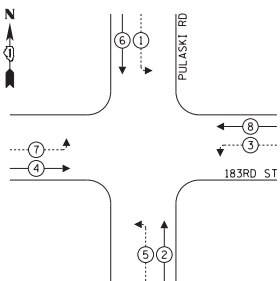
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3778	04-00026-01-WR	COOK	161	111
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 610R5	



TS 4095
 EAGLE 30

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

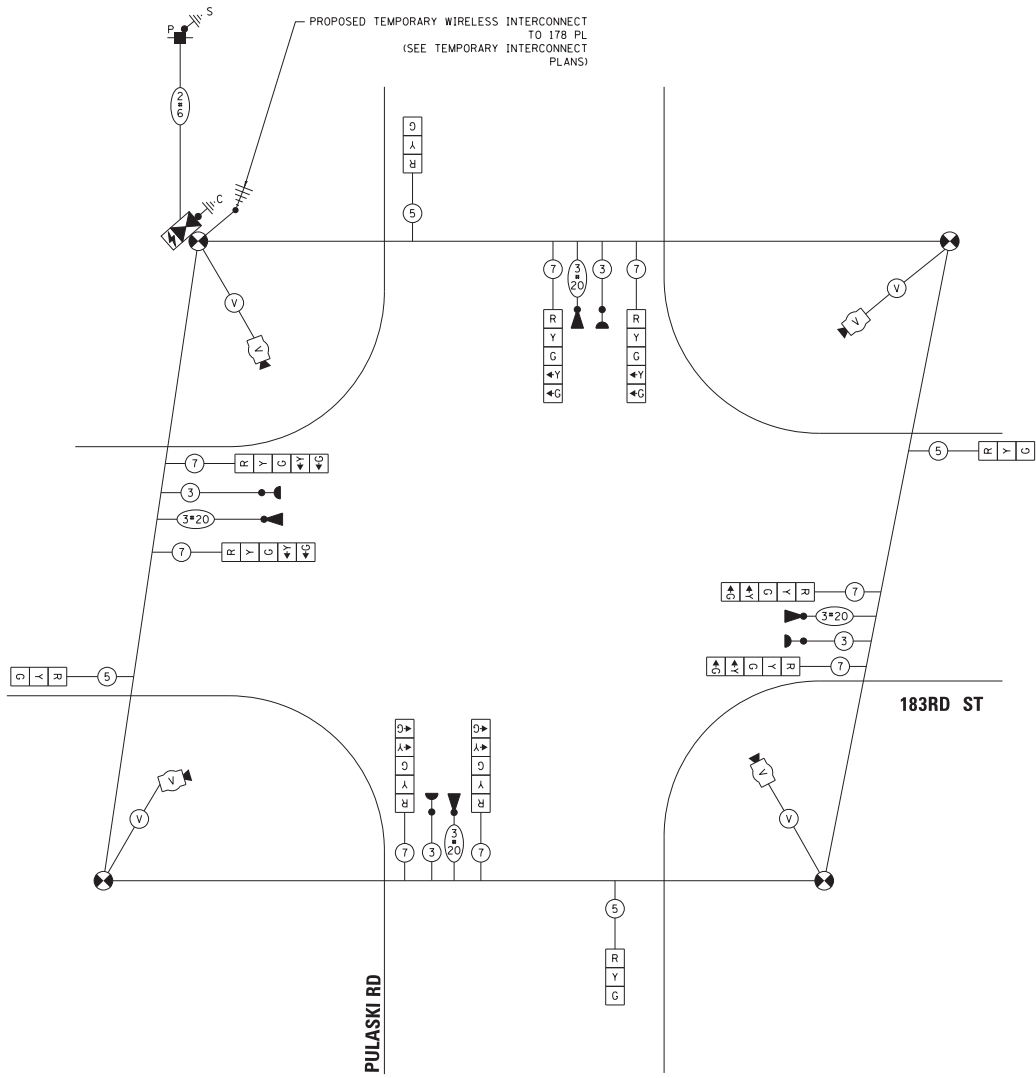
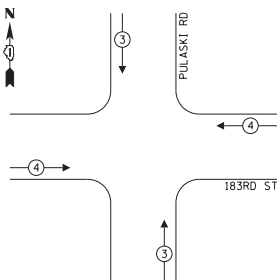
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← (⊙) → PROTECTED PHASE
- ← (⊙) → PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) → OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				433.8

ENERGY COSTS TO:

*SEE RIGHT FOR INFORMATION

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

- * CITY OF COUNTRY CLUB HILLS
4200 WEST 183RD STREET
COUNTRY CLUB HILLS, IL 60478
- * VILLAGE OF HAZEL CREST
3000 WEST 170TH PLACE
HAZEL CREST, IL 60429

CABLE PLAN
(NOT TO SCALE)

PRE-STAGE AND STAGES 1A, 1B, 2A & 2B

TS 4095
EAGLE 30

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Pre-Stage-Temp_Cable.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

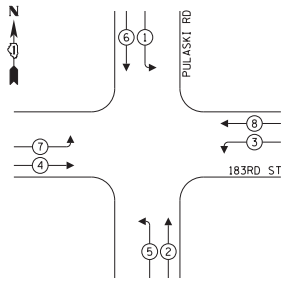
TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
PULASKI RD AND 183RD ST

F.A.M. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	112
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				CONTRACT NO. 61085

SCALE: NONE SHEET OF SHEETS STA. TO STA.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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 89605 AM
 2/7/2009
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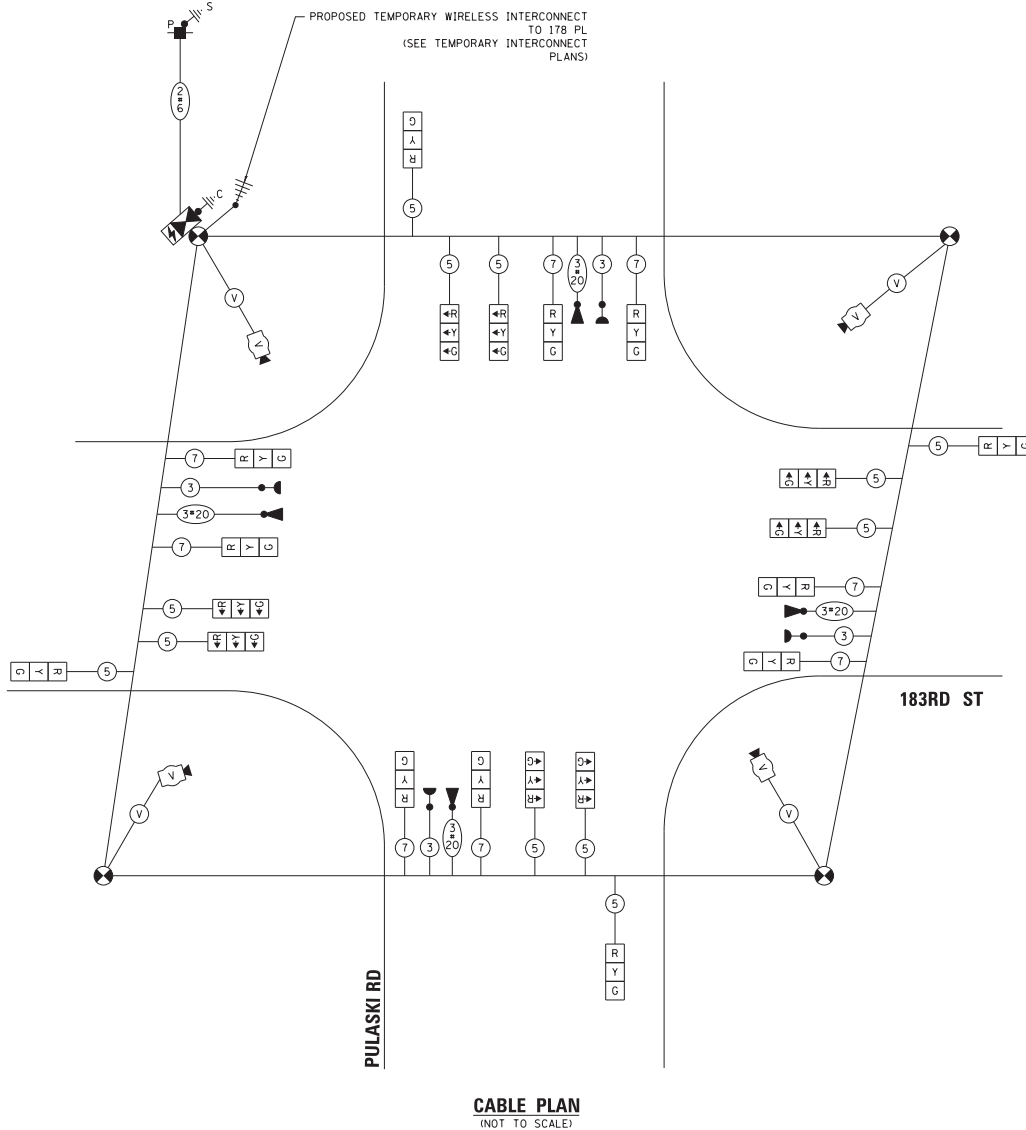
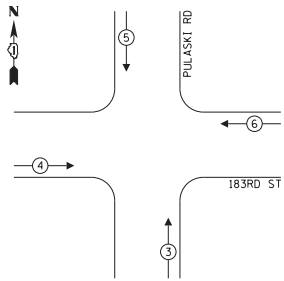
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ◁ (with circle) PROTECTED PHASE
- ◁ (with dashed circle) PROTECTED/PERMITTED PHASE
- ◁ (with star) PEDESTRIAN PHASE
- OL OVERLAP

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				441.8

ENERGY COSTS TO:

*SEE RIGHT FOR INFORMATION

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

- * CITY OF COUNTRY CLUB HILLS
4200 WEST 183RD STREET
COUNTRY CLUB HILLS, IL 60478
- * VILLAGE OF HAZEL CREST
3000 WEST 170TH PLACE
HAZEL CREST, IL 60429

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Temp_Cable.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN
(NOT TO SCALE)**

STAGE 3

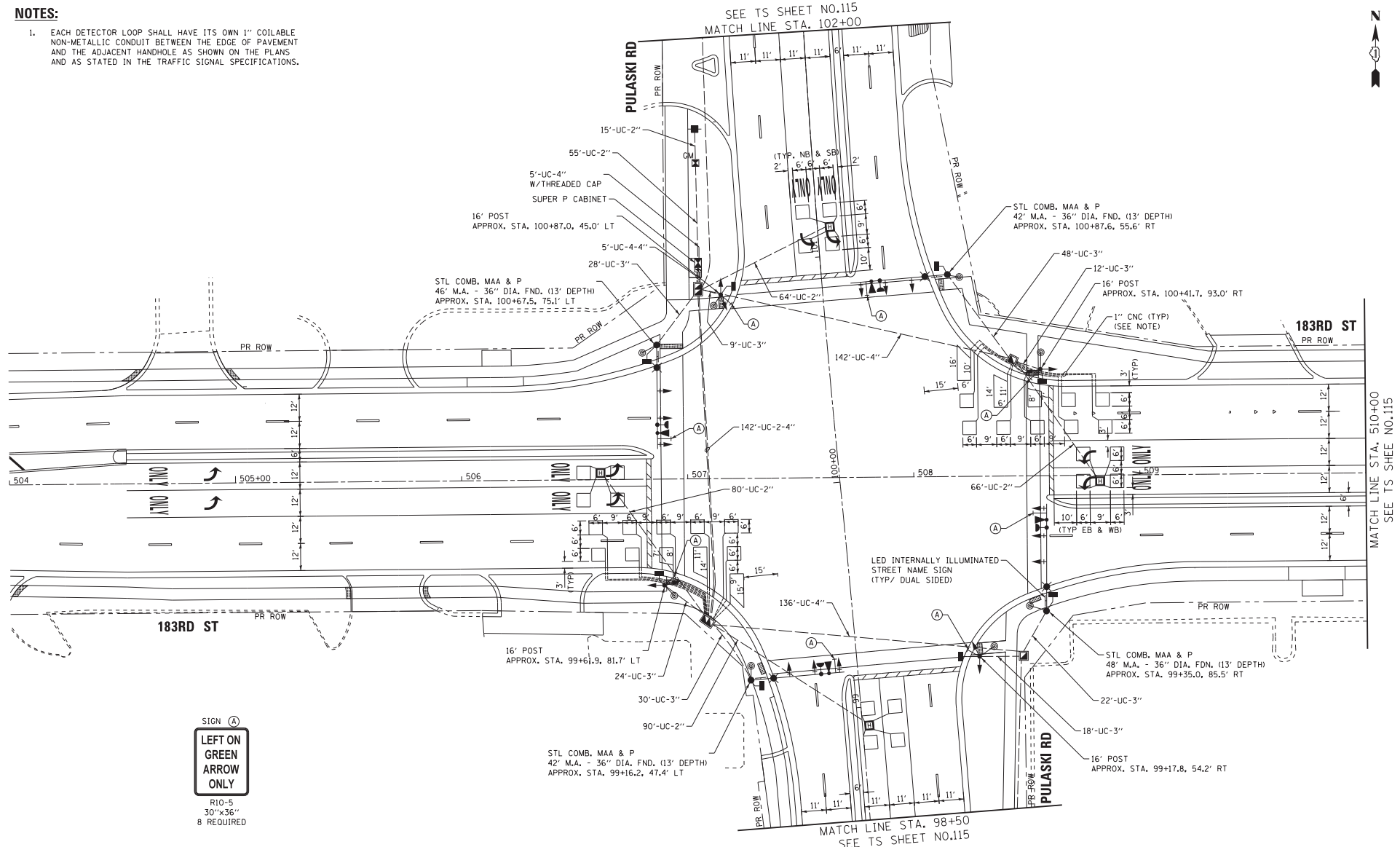
TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE PULASKI RD AND 183RD ST				F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE SHEET OF SHEETS STA. TO STA.				3778	04-00026-01-WR	COOK	161	113
CONTRACT NO. 61085								FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

**TS 4095
EAGLE 30**

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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 REGIONS 2/17/2009
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NOTES:

- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



SIGN (A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 8 REQUIRED

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
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DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Plan.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)			
PULASKI RD AND 183RD ST			
SCALE: 1"=20'	SHEET OF	SHEETS	STA. TO STA.

F.A.M. R.I.E.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 114
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61085

TS 4095
EAGLE 30

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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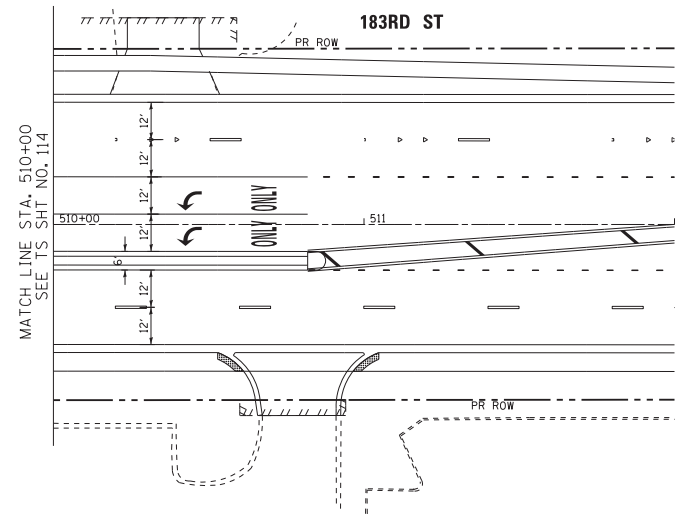
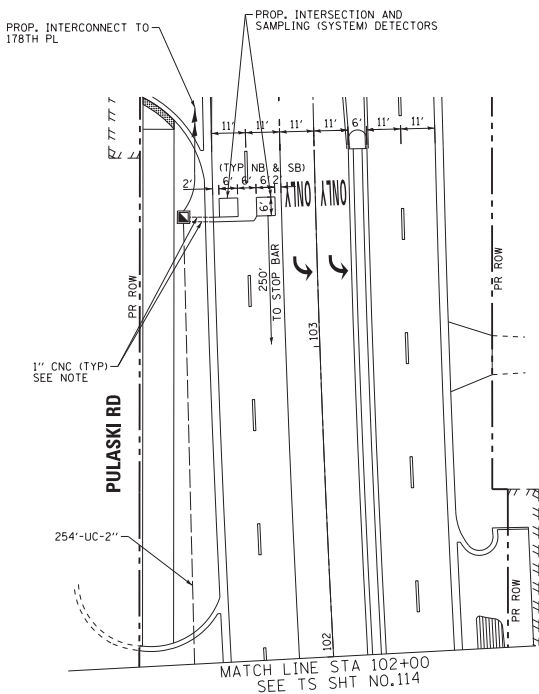
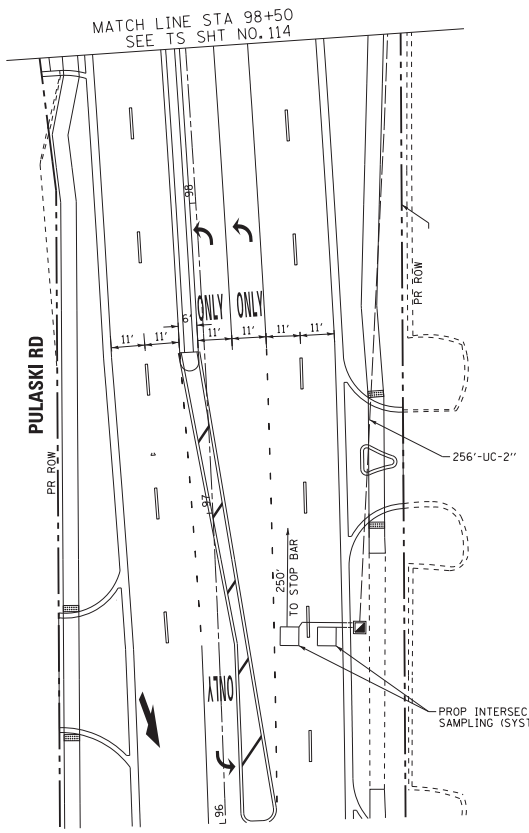
BAXTER & WOODMAN
 Consulting Engineers

DESIGNED	- RWL	REVISED	-
DRAWN	- LKB	REVISED	-
CHECKED	- DTH	REVISED	-
DATE	- 10-8-18	FILE	- 061559_TS-Plan2.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
 PULASKI RD AND 183RD ST
 SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

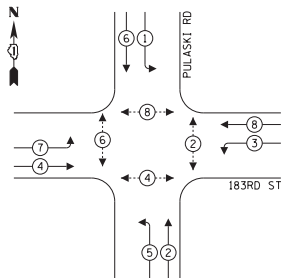
F.A.U. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	115
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61085	



- NOTES:**
- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS 4095
 EAGLE 30

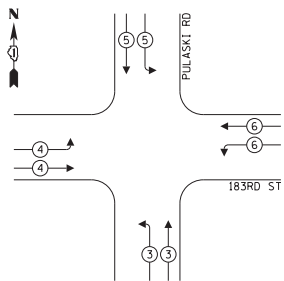
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ⊙ PROTECTED PHASE
- ⊙ PROTECTED/PERMITTED PHASE
- ⊙ PEDESTRIAN PHASE
- ⊙ OL OVERLAP

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

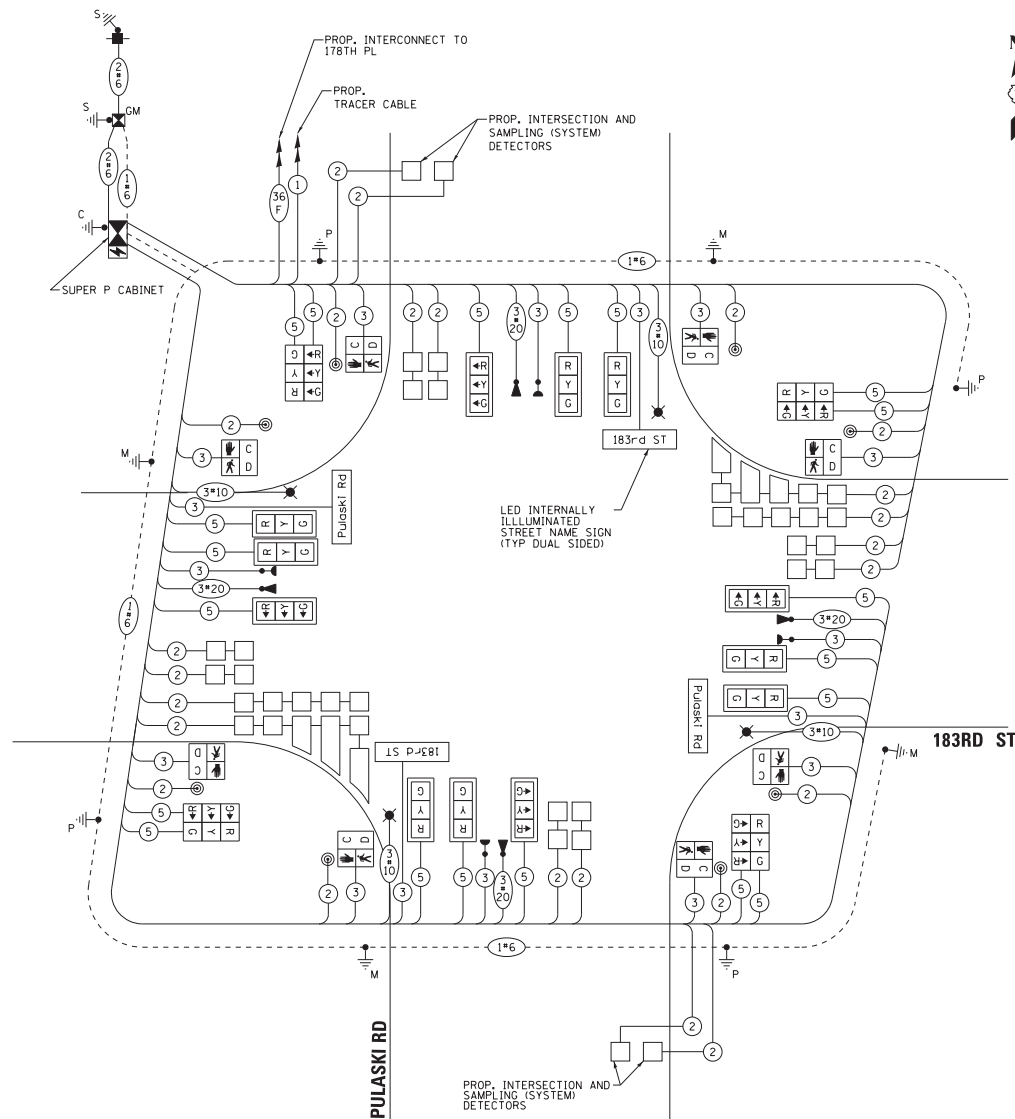
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	4	200	50	400.0
			TOTAL =	1075.8

ENERGY COSTS TO:

- SEE RIGHT FOR INFORMATION

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

- CITY OF COUNTRY CLUB HILLS
4200 WEST 183RD STREET
COUNTRY CLUB HILLS, IL 60478
- VILLAGE OF HAZEL CREST
3000 WEST 170TH PLACE
HAZEL CREST, IL 60429



CABLE PLAN
(NOT TO SCALE)

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559-TS-Cable.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
PULASKI RD AND 183RD ST**

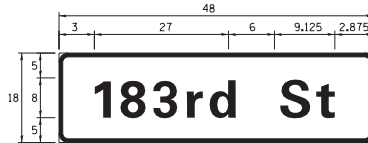
F.A.M. No.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 116
SCALE: NONE SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

**TS 4095
EAGLE 30**

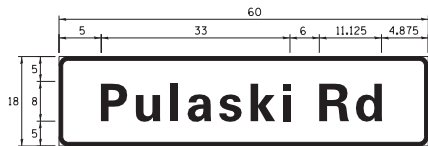
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-01021, EXPIRES 4/30/2019
 0607148 AM 1/8/2009
 PROJECT: 061559-TS-Cable.dgn
 DRAWING: 04-00026-01-WR
 SHEET: 116 OF 161
 DATE: 10-8-18
 FILE: 061559-TS-Cable.dgn

SIGN PANEL - TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	890
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	191
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	587
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	1,661
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	2,782
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C	FOOT	4,781
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	4,177
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	99
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.6 1C	FOOT	1,766
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	16
DETECTOR LOOP, TYPE I	FOOT	1,482
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	13
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO.20 3/C	FOOT	1,065
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO.14 3C, TYPE SOOW	FOOT	951

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 REG.# 06071509
 PROJECT: ...\\crystal.lake\c\c016559\CADD\SURVEY\DRAWINGS\WORK\PHASE-2-493RD_Signs\TS-Most-Arm&ScheduleQty.dgn
 DATE: 1/8/2019 10:07:50 AM



DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Most-Arm&ScheduleQty.dgn

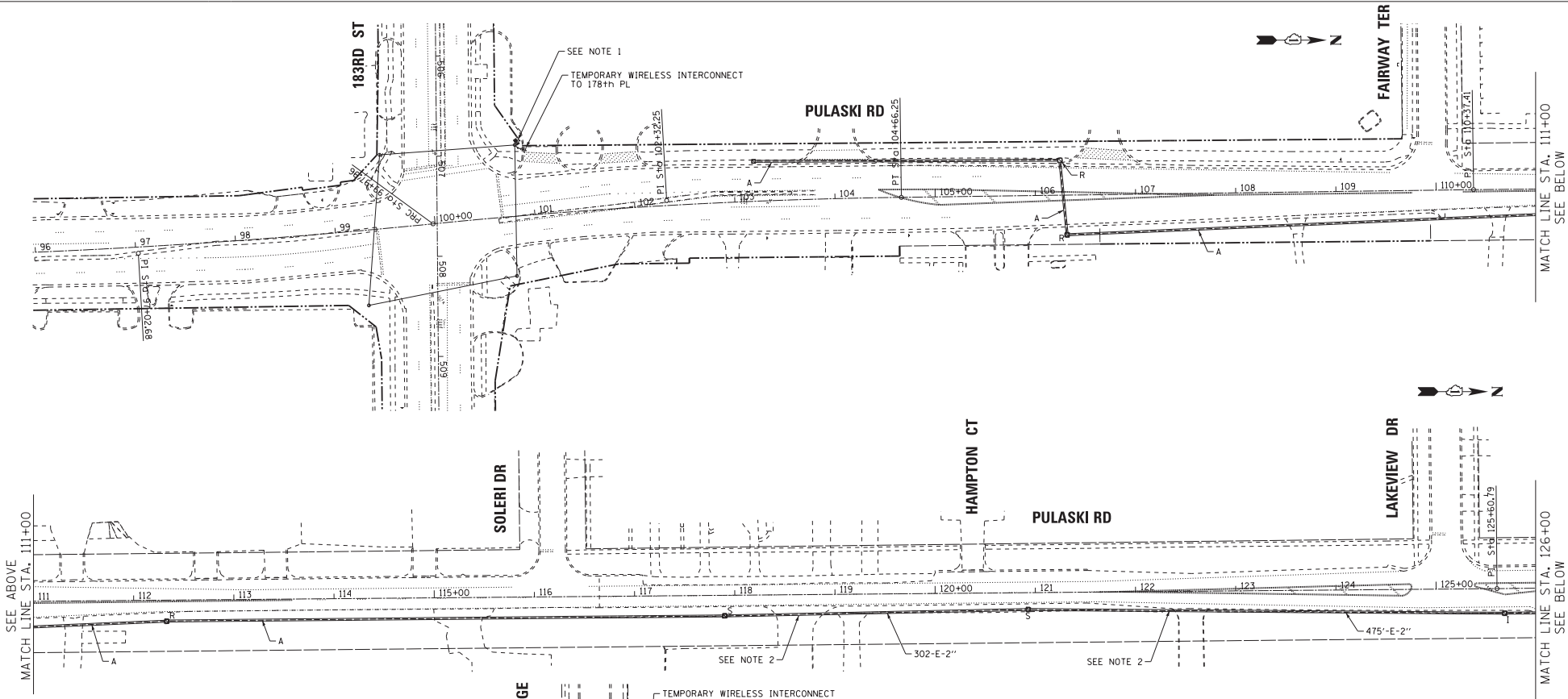
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
PULASKI RD AND 183RD ST

SCALE: NONE	SHEET OF	SHEETS	STA. TO STA.	F.A.U. NO. 3778	SECTION 04-00026-01-WR	COUNTY COOK	TOTAL SHEETS 161	SHEET NO. 117
							CONTRACT NO. 610R5	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT								

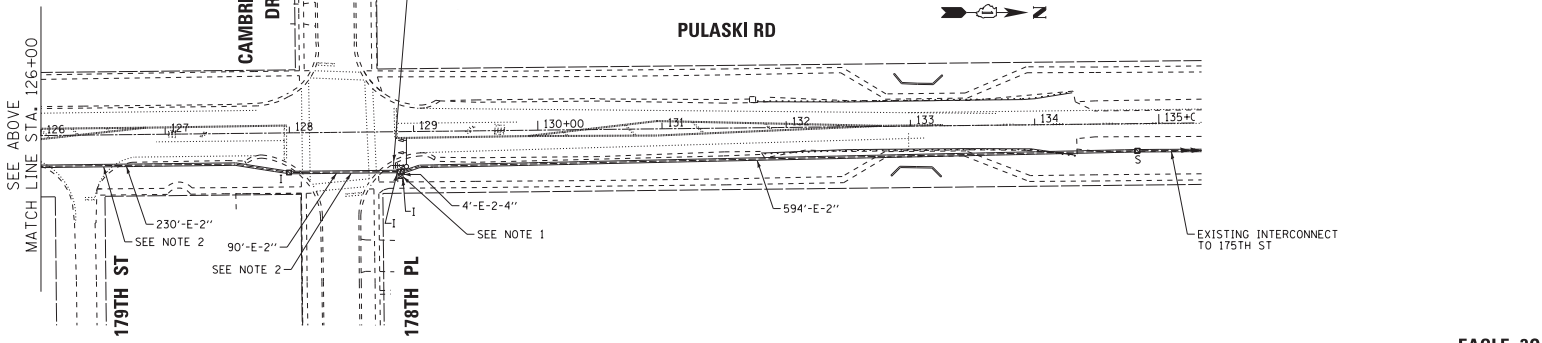
TS 4095
EAGLE 30

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821, EXPIRES 4/30/2019
 REG. 1/8/2009 008860 AM
 PROJECT: 061559-TS-Temp_Interconnect-Plan.dgn
 SURVEY: 061559-TS-Temp_Interconnect-Plan.dgn
 DRAWING: 061559-TS-Temp_Interconnect-Plan.dgn
 DATE: 10-8-18



TEMPORARY INTERCONNECT NOTES

- CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS LOCATED AT THE INTERSECTIONS OF PULASKI RD WITH 183rd ST AND 178th PL DURING CONSTRUCTION. ALL WORK ASSOCIATED WITH THE ANTENNA, CABLE, AND ITEMS IN THE CABINETS SHALL BE INCLUDED IN THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION" PAY ITEM.
- REMOVE ELECTRIC CABLE FROM CONDUIT - 2312 FOOT REMOVE EXISTING FIBER OPTIC AND TRACER CABLES FROM THE EXISTING CONDUIT BETWEEN THE EXISTING HANDHOLE AT APPROXIMATE STATION 117+90 AND THE EXISTING CONTROLLER CABINET AT APPROXIMATE STATION 128+90.



DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559-TS-Temp_Interconnect-Plan.dgn

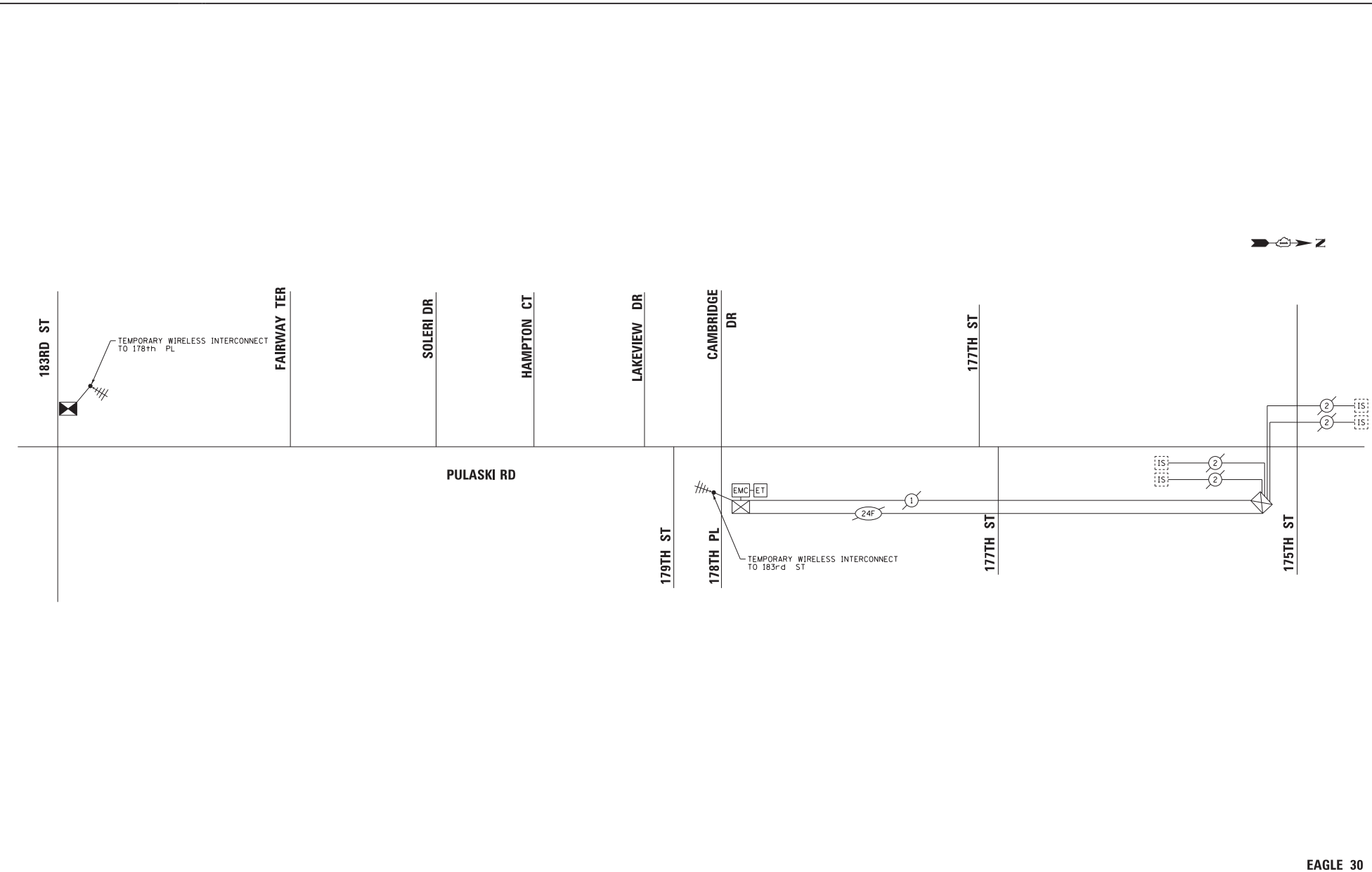
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN PULASKI RD (183RD ST TO 178TH PL)			
SCALE: 1"=50'	SHEET OF	SHEETS	STA. TO STA.

FED. ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 118
CONTRACT NO. 61085			

EAGLE 30

STATE OF ILLINOIS - PROFESSIONAL PERSON FIRM
 LICENSE NO.: 384-001821 - EXPIRES: 4/30/2019
 1/8/2009 0608003 AM
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DESIGNED	- RWL	REVISED	-
DRAWN	- LKB	REVISED	-
CHECKED	- DTH	REVISED	-
DATE	- 10-8-18	FILE	- 061559_TS-Temp_Schematic.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

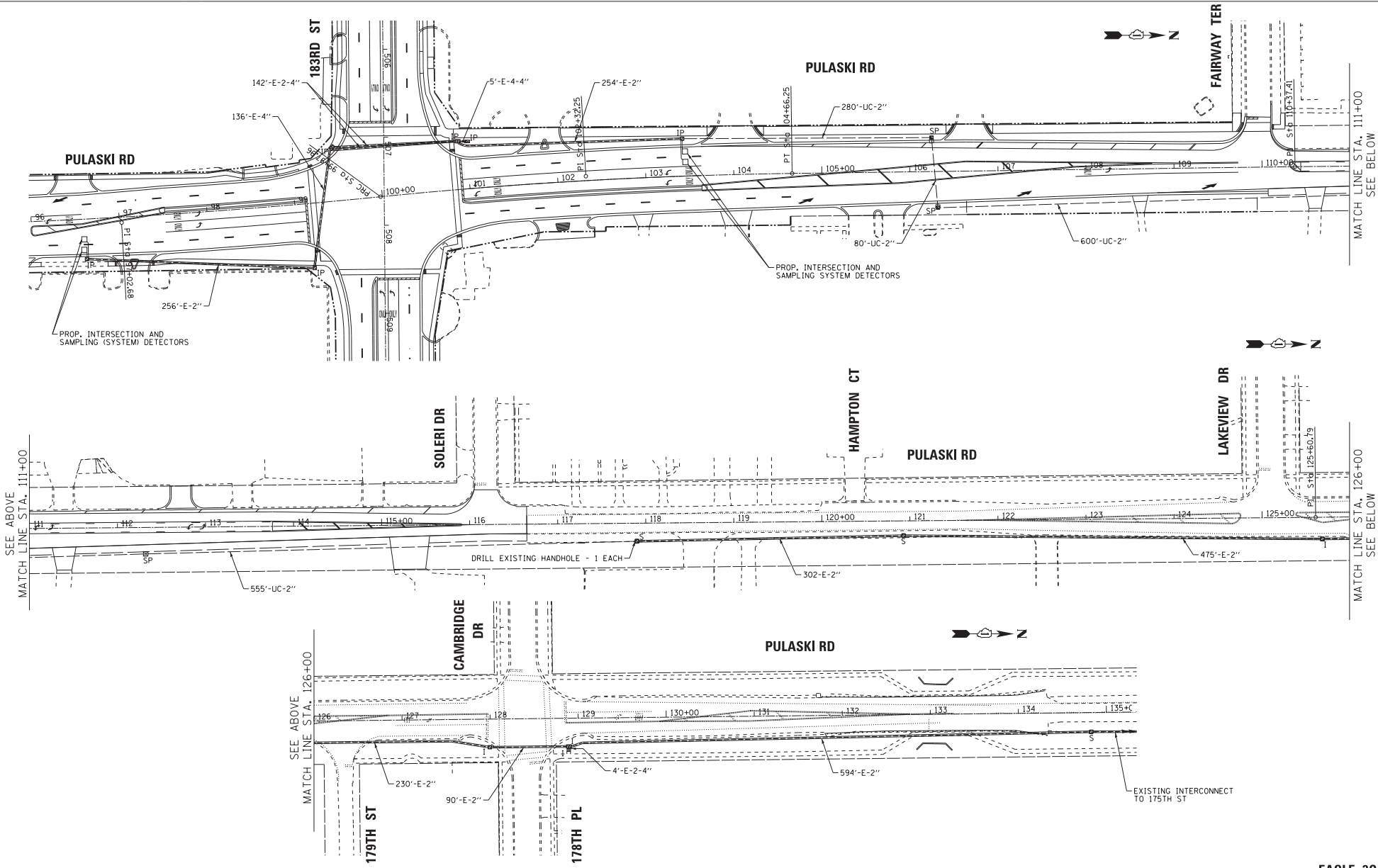
**TEMPORARY INTERCONNECT SCHEMATIC
 PULASKI RD (183RD ST TO 175TH ST)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	119
CONTRACT NO. 61085				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

EAGLE 30

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-00181, EXPIRES 4/30/2019
 REGIONS 006889 AM 1/8/2009
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DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS-Interconnect-Plan.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
 PULASKI RD (183RD ST TO 178TH PL)**

F.A.M. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 120
CONTRACT NO. 61085			
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			

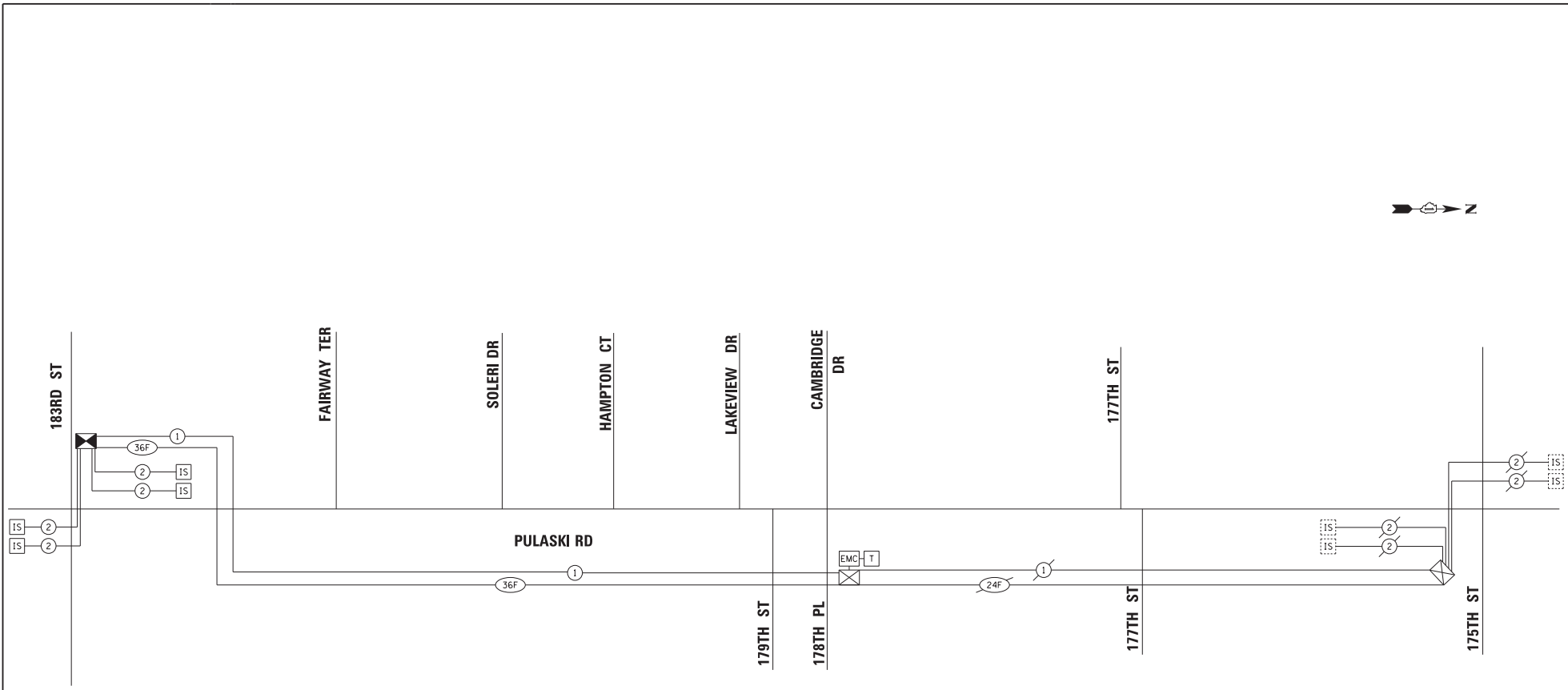
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

EAGLE 30

MATCH LINE STA. 111+00
 SEE BELOW

MATCH LINE STA. 126+00
 SEE BELOW

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 REGIONS 1/8/2009 060852 AM
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 ...Crystal Lake\CDL\061559\CADD-SURVEY\DRAWINGS\WORK\PHASE-2-183RD_Connect\061559_TS_Interconnect-Schematic.dgn



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1515
HANDHOLE	EACH	2
HEAVY DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO.14 1C	FOOT	2985
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2312
REMOVE EXISTING HANDHOLE	EACH	3
* ROD AND CLEAN EXISTING CONDUIT	FOOT	1101
FIBER OPTIC CABLE IN CONDUIT, NO. 62, 5/125, MM12F SM24F	FOOT	2985
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

DESIGNED - RWL	REVISED -
DRAWN - LKB	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_TS_Interconnect-Schematic.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
 PULASKI RD (183RD ST TO 175TH ST)

F.A.U. REF.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 121
			CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

EAGLE 30



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 061559-00121 - EXPIRES 4/30/2018
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DESIGNED -	MWH	REVISED -	-
DRAWN -	CJC	REVISED -	-
CHECKED -	DTH	REVISED -	-
DATE -	10-8-18	FILE -	061559_SL_Notes.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING NOTES &
 SUMMARY OF QUANTITIES**

SCALE: NONE	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	TOTAL SHEETS	122	SHEET NO.	122
			SECTION		COUNTY	CONTRACT NO. 61085			
			04-00026-01-WR		COOK	161	122		

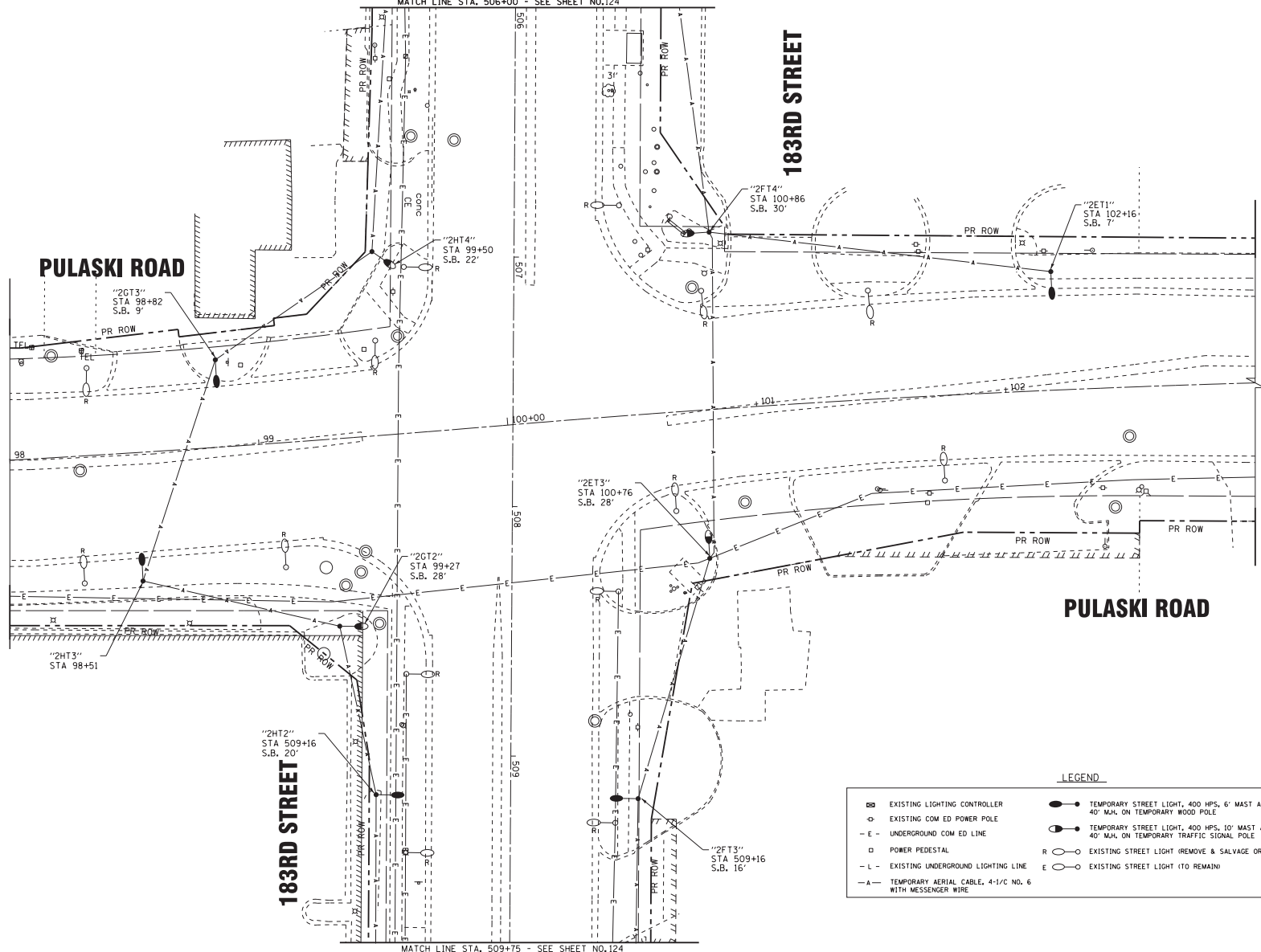
SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	417
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	4
81603000	JNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	557
81603010	JNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	240
81603700	JNIT DUCT, 600V, 7-1C NO.8, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	2,025
83000400	LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM	EACH	1
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	120
83800505	BREAKAWAY DEVICE, COUPLING WITH ALUMINUM SKIRT	EACH	15
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	16
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	18
84200804	REMOVAL OF POLE FOUNDATION	EACH	18
X0326364	TEMPORARY AERIAL CABLE WITH MESSENGER WIRE	FOOT	2255
X0327236	TEMPORARY WOOD POLE, 50 FEET, CLASS 4	EACH	12
X1400094	LUMINAIRE, LED, HORIZONTAL MOUNT, LOW WATTAGE	EACH	1
X1400113	LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	4
X1400147	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP - TYPE TC) 2/C NO.10 AND NO.10 GROUND	FOOT	480
X8210040	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	16
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	14
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	42
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	19
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL. MO	12

LIGHTING NOTES

- FIELD ADJUSTMENT OF LIGHTING UNIT LOCATIONS TO AVOID CONFLICTS MUST BE APPROVED BY THE CITY AND/OR ENGINEER.
- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING CONDUITS, DETECTORS AND EQUIPMENT. IF ANY OF THE CONDUIT AND/OR EQUIPMENT IS DAMAGED THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE CITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE CITY AND/OR ENGINEER. THE WORK SHALL BE CONSIDERED INCLUDED TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE CITY AND/OR ENGINEER PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "UNDERGROUND RACEWAYS". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE CITY AND/OR ENGINEER.
- ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS IN TRENCHES SHALL BE INSTALLED BEFORE PAVEMENT IS PLACED. CONDUIT LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LENGTH REQUIREMENTS IN THE FIELD.
- NO UNDERGROUND SPLICES OR SPLICES IN HANDHOLES WILL BE PERMITTED. ELECTRIC HANDHOLES SHALL BE USED FOR THE PURPOSE OF PULLING CABLES ONLY.
- LIGHTING UNIT SETBACK (BACK OF CURB TO CENTER OF POLE) SHALL BE AS CALLED OUT ON PLANS.
- ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.
- PROVIDE BREAKAWAY COUPLINGS AND POLE BASE SKIRT ON ALL LIGHT POLES.

MATCH LINE STA. 506+00 - SEE SHEET NO.124



MATCH LINE STA. 509+75 - SEE SHEET NO.124

LEGEND

- ⊠ EXISTING LIGHTING CONTROLLER
- ⊠ EXISTING COM ED POWER POLE
- E - UNDERGROUND COM ED LINE
- ⊠ POWER PEDESTAL
- L - EXISTING UNDERGROUND LIGHTING LINE
- A - TEMPORARY AERIAL CABLE, 4-1/2 NO. 6 WITH MESSENGER WIRE
- TEMPORARY STREET LIGHT, 400 HPS, 6' MAST ARM, 40' MAH ON TEMPORARY WOOD POLE
- TEMPORARY STREET LIGHT, 400 HPS, 10' MAST ARM, 40' MAH ON TEMPORARY TRAFFIC SIGNAL POLE
- R ○ EXISTING STREET LIGHT (REMOVE & SALVAGE OR RELOCATE)
- E ○ EXISTING STREET LIGHT (TO REMAIN)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 REGIONS 1/8/2009 0608229 AM
 \\ntcrystal\cib\cib\cib\061559\CAD\DRAWINGS\WORK\PHASE 2-183RD\Sheet13-061559_SL3-TEMP.dgn

BAXTER & WOODMAN
Consulting Engineers

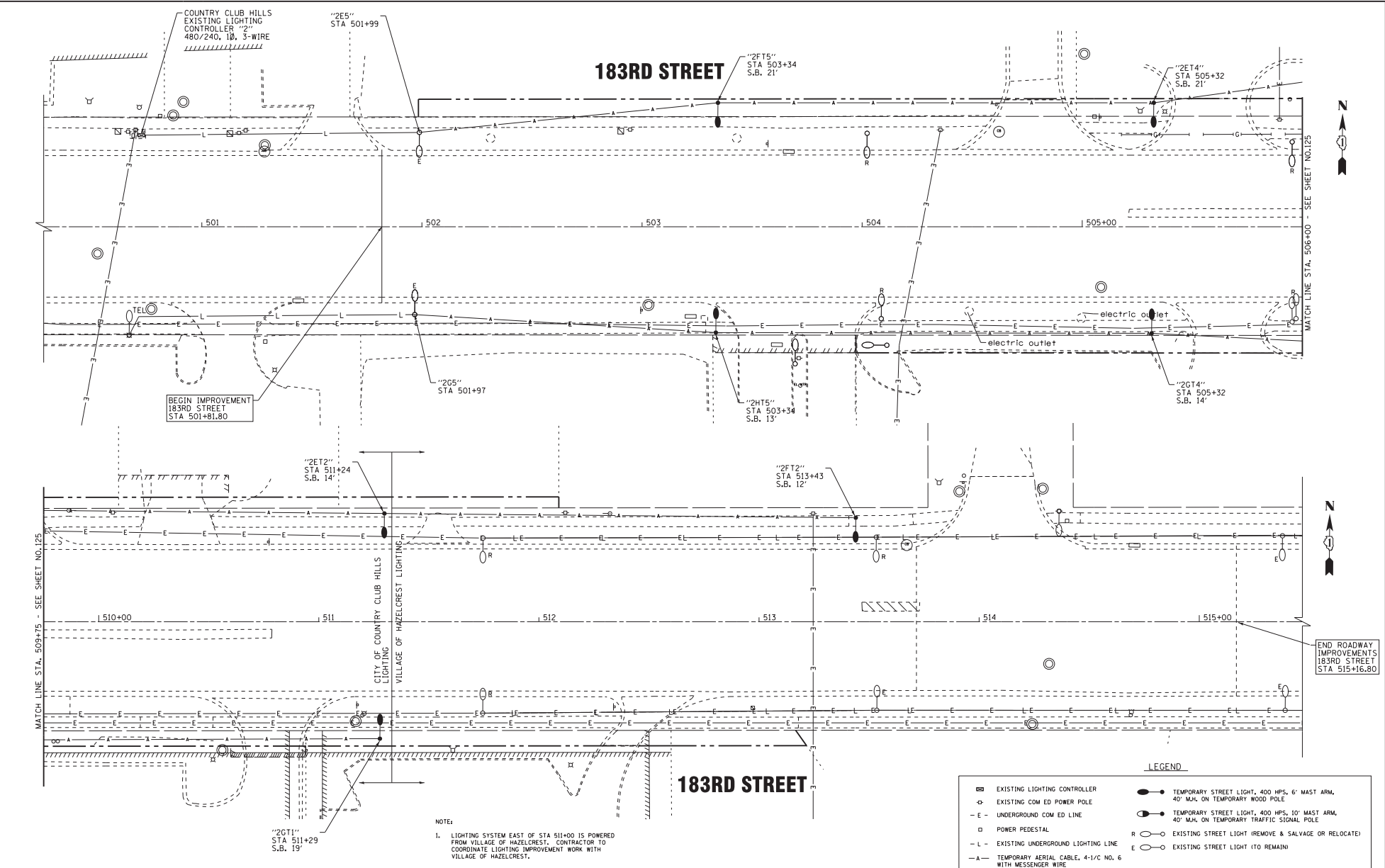
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DRAWN -	CJC	REVISED -	
CHECKED -	DTH	REVISED -	
DATE -	10-8-18	FILE -	061559_SL3-TEMP.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TEMPORARY STREET LIGHTING PLAN
PULASKI ROAD AND 183RD STREET**

SCALE: 1" = 20'	STA. 88+00	TO STA. 98+00	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT
	SECTION	COUNTY	TOTAL SHEET NO.
	3778 04-00026-01-WR	COOK	161 123
			CONTRACT NO. 61D85

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 1/8/2019 10:08:53 AM
 \\s:\projects\183rd\183rd-PRO-P&I\DWG\183RD-TEMP.dgn
 I:\Crystal Lake\COIL\061559\CAAD-SURVEY\DRAWINGS\WORK\PHASE-2-183RD-TEMP.dgn



NOTE:
 1. LIGHTING SYSTEM EAST OF STA 511+00 IS POWERED FROM VILLAGE OF HAZELCREST. CONTRACTOR TO COORDINATE LIGHTING IMPROVEMENT WORK WITH VILLAGE OF HAZELCREST.

LEGEND

⊠	EXISTING LIGHTING CONTROLLER	●	TEMPORARY STREET LIGHT, 400 HPS, 6' MAST ARM, 40' M.H. ON TEMPORARY WOOD POLE
⊙	EXISTING COM ED POWER POLE	○	TEMPORARY STREET LIGHT, 400 HPS, 10' MAST ARM, 40' M.H. ON TEMPORARY TRAFFIC SIGNAL POLE
-E-	UNDERGROUND COM ED LINE	R ○	EXISTING STREET LIGHT (REMOVE & SALVAGE OR RELOCATE)
○	POWER PEDESTAL	E ○	EXISTING STREET LIGHT (TO REMAIN)
-L-	EXISTING UNDERGROUND LIGHTING LINE	-A-	TEMPORARY AERIAL CABLE, 4-1/2" NO. 6 WITH MESSENGER WIRE

DESIGNED -	MWH	REVISED -	
DRAWN -	CJC	REVISED -	
CHECKED -	DTH	REVISED -	
DATE -	10-8-18	FILE -	061559_SL6-TEMP.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY STREET LIGHTING PLAN
 183RD STREET

SCALE: 1" = 20'	STA. 500+00	TO STA. 515+25	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
		SECTION		COUNTY
		3778 04-00026-01-WR		COOK
				TOTAL SHEETS NO. 124
				CONTRACT NO. 61085

END ROADWAY IMPROVEMENTS 183RD STREET STA 515+16.80

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-00181 - EXPIRES 4/30/2019
 REG. NO. 006833 AM
 PROJECT: 061559-AR30-PR0-PEN-TB1
 SURVEY: 061559-AR30-PR0-PEN-TB1
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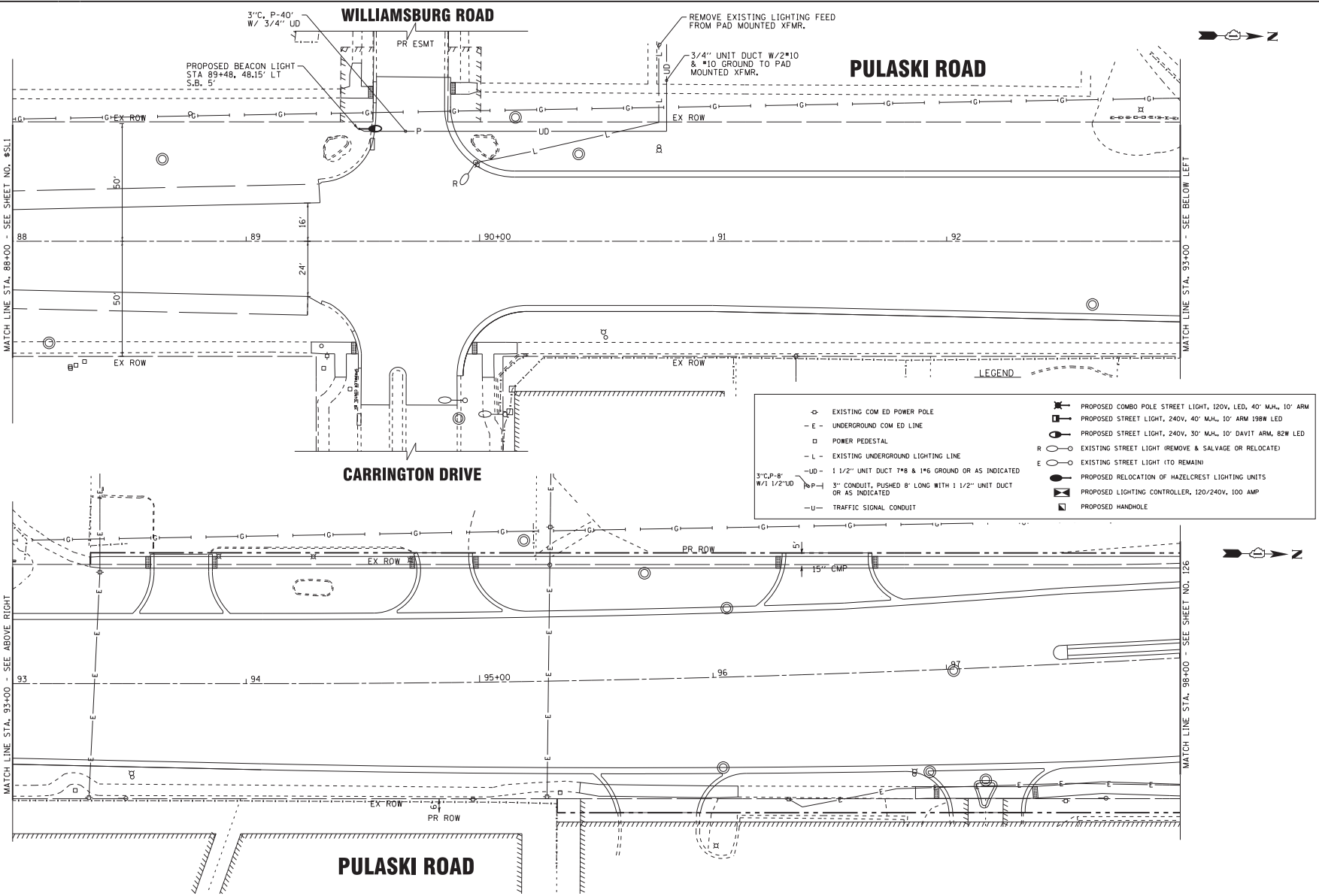


DESIGNED -	MWH	REVISED -	
DRAWN -	CJC	REVISED -	
CHECKED -	DTH	REVISED -	
DATE -	10-8-18	FILE -	061559_SL2.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STREET LIGHTING PLAN
 PULASKI ROAD

SCALE: 1" = 20'	STA. 88+00	TO STA. 98+00	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	SECTION 04-00026-01-WR	COUNTY COOK	TOTAL SHEETS 161	SHEET NO. 125
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LEGEND

⊙	EXISTING COM ED POWER POLE	⊠	PROPOSED COMBO POLE STREET LIGHT, 120V, LED, 40' M.H., 10' ARM
-E-	UNDERGROUND COM ED LINE	⊠	PROPOSED STREET LIGHT, 240V, 40' M.H., 10' ARM 198W LED
□	POWER PEDESTAL	⊠	PROPOSED STREET LIGHT, 240V, 30' M.H., 10' DAVIT ARM, 82W LED
-L-	EXISTING UNDERGROUND LIGHTING LINE	○	EXISTING STREET LIGHT (REMOVE & SALVAGE OR RELOCATE)
⊠	1 1/2" UNIT DUCT 7*8 & 1*6 GROUND OR AS INDICATED	○	EXISTING STREET LIGHT (TO REMAIN)
⊠	3" CONDUIT, PUSHED 8' LONG WITH 1 1/2" UNIT DUCT OR AS INDICATED	○	PROPOSED RELOCATION OF HAZELCREST LIGHTING UNITS
-U-	TRAFFIC SIGNAL CONDUIT	⊠	PROPOSED LIGHTING CONTROLLER, 120/240V, 100 AMP
		⊠	PROPOSED HANDLE

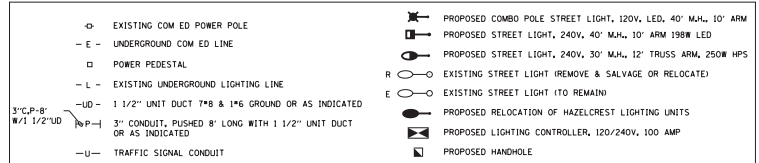
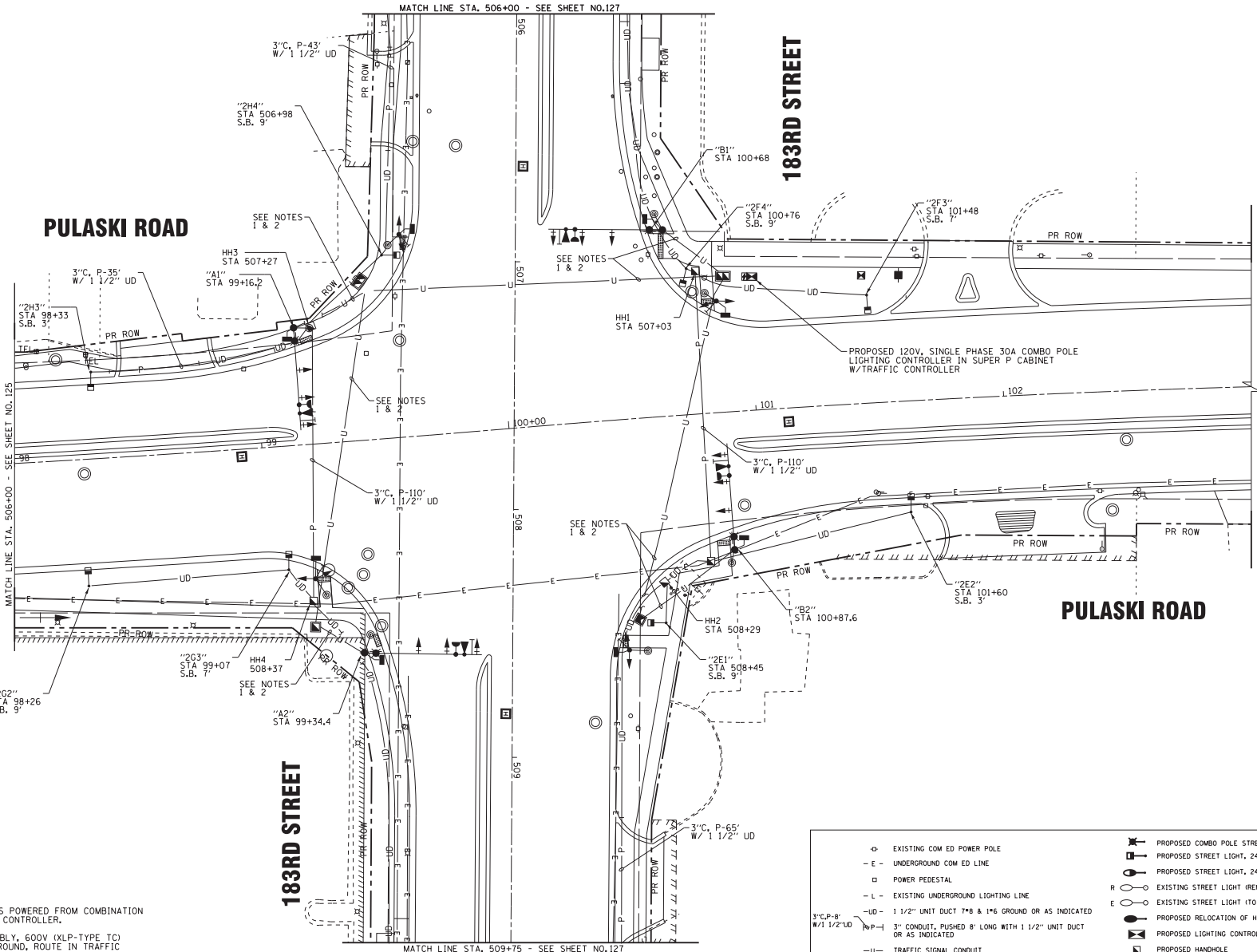
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 REG.# 0686935 AS
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- NOTES:**
1. COMBO POLE LUMINAIRES POWERED FROM COMBINATION TRAFFIC SIGNAL/LIGHTING CONTROLLER.
 2. ELECTRIC CABLE ASSEMBLY, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND, ROUTE IN TRAFFIC SIGNAL CONDUITS.

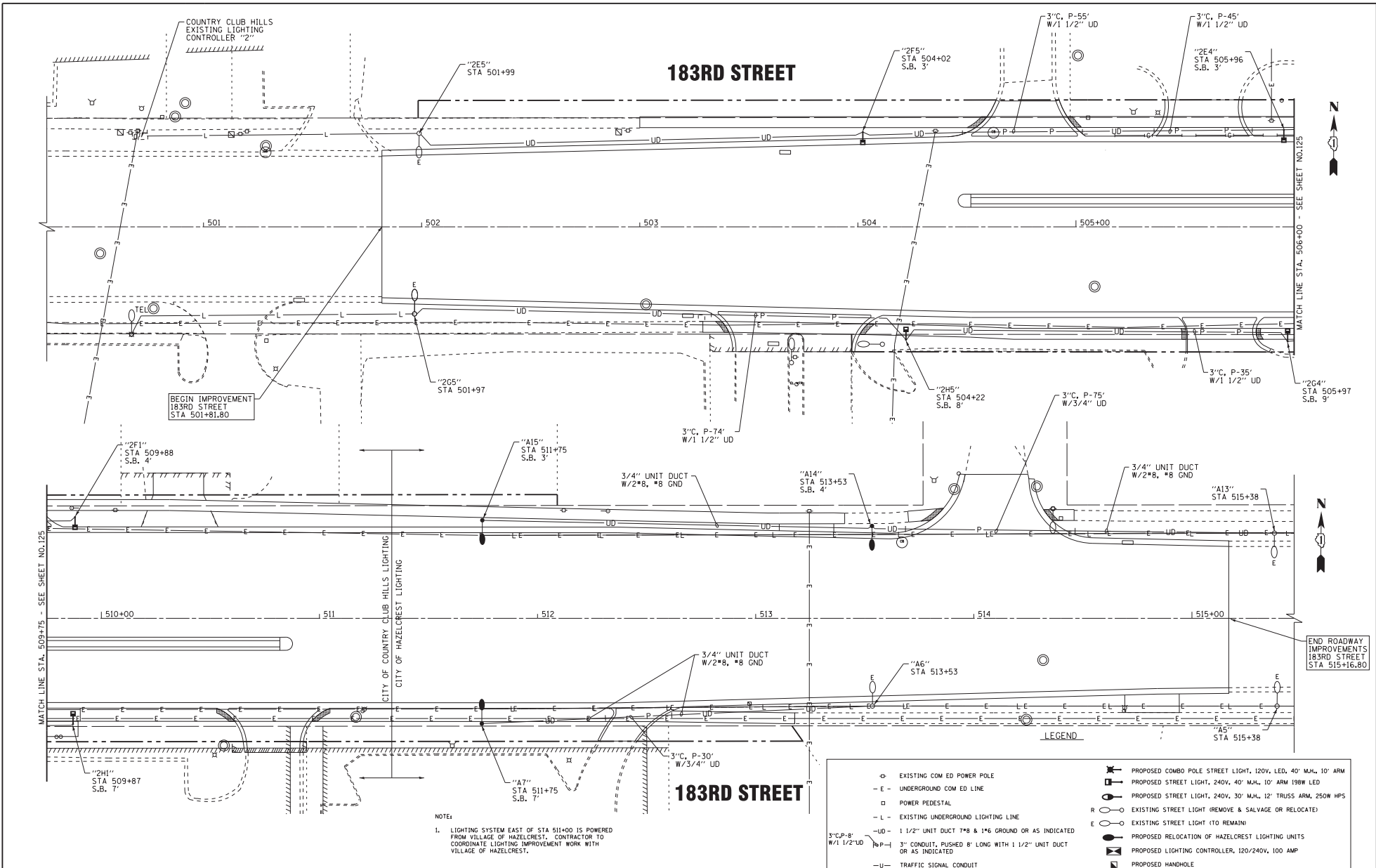
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DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE - 061559_SL3.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STREET LIGHTING PLAN PULASKI ROAD AND 183RD STREET			
F.A.U. No. 3778	SECTION 04-00026-01-WR	COUNTY COOK	TOTAL SHEETS 161
SCALE: 1" = 20'	STA. 88+00	TO STA. 98+00	CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821, EXPIRES 4/30/2019
 REGIONS 1/8/2009
 PROJECT: 061559-SL6.dgn
 DRAWING: 061559-183RD-PRO-PLAN-TBI
 SURVEY: 061559-183RD-PRO-PLAN-TBI
 SURVEY: 061559-183RD-PRO-PLAN-TBI
 SURVEY: 061559-183RD-PRO-PLAN-TBI



NOTE:
 1. LIGHTING SYSTEM EAST OF STA 511+00 IS POWERED FROM VILLAGE OF HAZELCREST. CONTRACTOR TO COORDINATE LIGHTING IMPROVEMENT WORK WITH VILLAGE OF HAZELCREST.

LEGEND

⊙	EXISTING COM ED POWER POLE	⊙	PROPOSED COMBO POLE STREET LIGHT, 120V, LED, 40' M.H., 10' ARM
-E-	UNDERGROUND COM ED LINE	⊙	PROPOSED STREET LIGHT, 240V, 40' M.H., 10' ARM 198W LED
□	POWER PEDESTAL	⊙	PROPOSED STREET LIGHT, 240V, 30' M.H., 12' TRUSS ARM, 250W HPS
-L-	EXISTING UNDERGROUND LIGHTING LINE	⊙	EXISTING STREET LIGHT (TO REMOVE & SALVAGE OR RELOCATED)
-UD-	1 1/2" UNIT DUCT 7#8 & 1#6 GROUND OR AS INDICATED	⊙	EXISTING STREET LIGHT (TO REMAIN)
-P-	3" CONDUIT, PUSHED 8' LONG WITH 1 1/2" UNIT DUCT OR AS INDICATED	⊙	PROPOSED RELOCATION OF HAZELCREST LIGHTING UNITS
-U-	TRAFFIC SIGNAL CONDUIT	⊙	PROPOSED LIGHTING CONTROLLER, 120/240V, 100 AMP
		⊙	PROPOSED HANDHOLE

BAXTER & WOODMAN
 Consulting Engineers

DESIGNED -	MWH	REVISED -	
DRAWN -	CJC	REVISED -	
CHECKED -	DTH	REVISED -	
DATE -	10-8-18	FILE -	061559_SL6.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STREET LIGHTING PLAN
 183RD STREET

F.A.U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	127
CONTRACT NO. 610R5			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

SCALE: 1" = 20'
 STA. 500+00 TO STA. 515+25

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 REGIONS 1/18/2009 0008840 AM
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BAXTER & WOODMAN
 Consulting Engineers

DESIGNED	-	MWH	REVISED	-	
DRAWN	-	CJC	REVISED	-	
CHECKED	-	DTH	REVISED	-	
DATE	-	10-8-18	FILE	-	061559_SL-Schematic.dgn

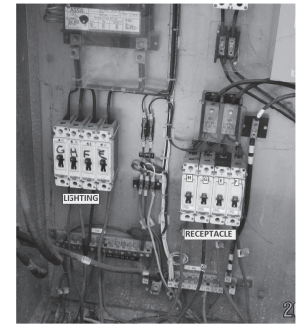
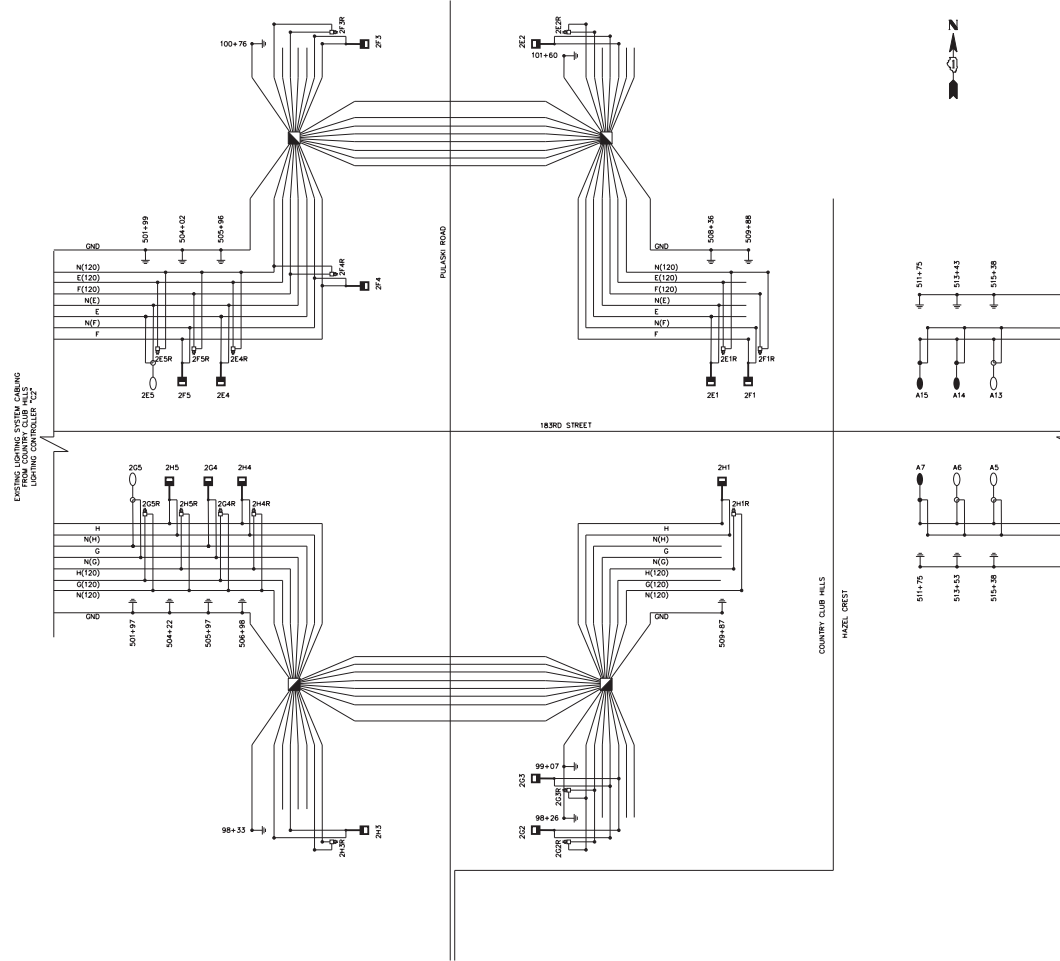
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STREET LIGHTING SCHEMATIC

SCALE: NONE

STA. TO STA.

F.A.M. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	128
			CONTRACT NO. 61085	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



LIGHTING CONTROLLER CIRCUITS

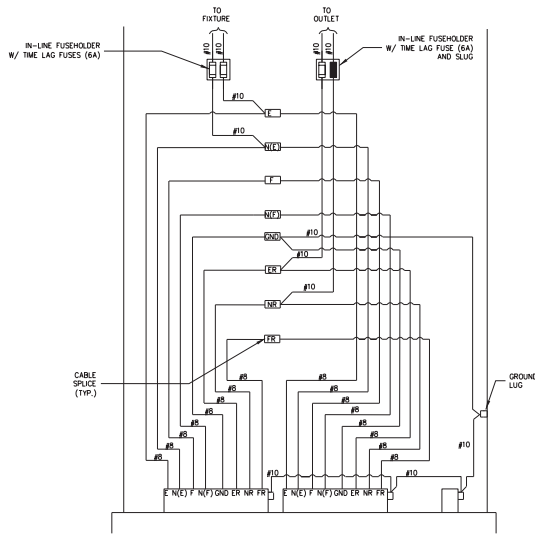
LOAD TABULATION FOR COUNTRY CLUB HILLS LIGHTING CONTROLLER "C2", 240V

CIRCUIT	WATTS	AMPS
E	(4) 250	4.2
F	(4) 250	4.2
G	(4) 250	4.2
H	(5) 250	5.2
TOTAL		22

LEGEND

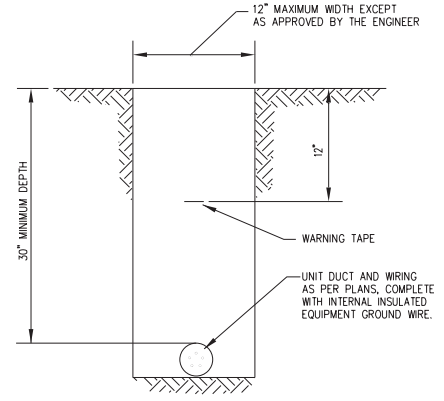
- ⏏ WP RECEPTACLE (POLE MOUNTED)
- ☐ PROPOSED STREET LIGHT, 240V, 40" MM, 10" ARM 198W LED
- EXISTING STREET LIGHT (TO REMAIN)
- PROPOSED RELOCATION OF HAZELCREST LIGHTING UNITS
- Ⓜ PROPOSED HANDHOLE

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821 - EXPIRES 4/30/2019
 REGIONS 1/8/2009 008843 AM
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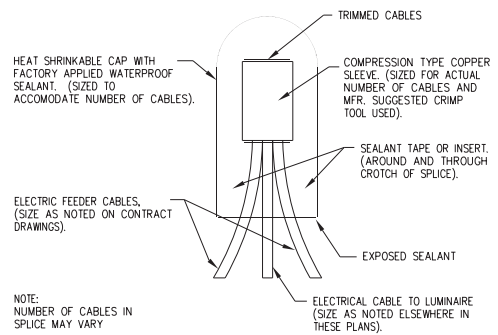


POLE BASE WIRING DETAIL
NO SCALE

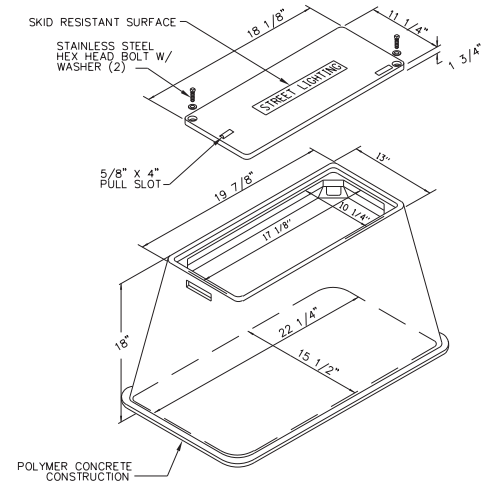
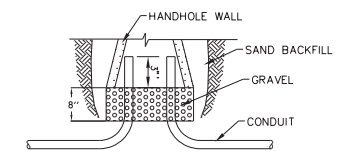
- NOTE:
1. ALTERNATE PHASE CIRCUITING OF FESTOONS AND LUMINAIRES AS SHOWN ON PLANS.
 2. SEE LIGHTING CONTROLLER CIRCUITS DETAIL ON SHIT 12.



TYPICAL WIRING IN TRENCH DETAIL
NO SCALE



SPlicing ELECTRICAL Cables
BASIC MATERIALS AND METHODS
NO SCALE



HANDHOLE, COMPOSITE CONCRETE
NO SCALE

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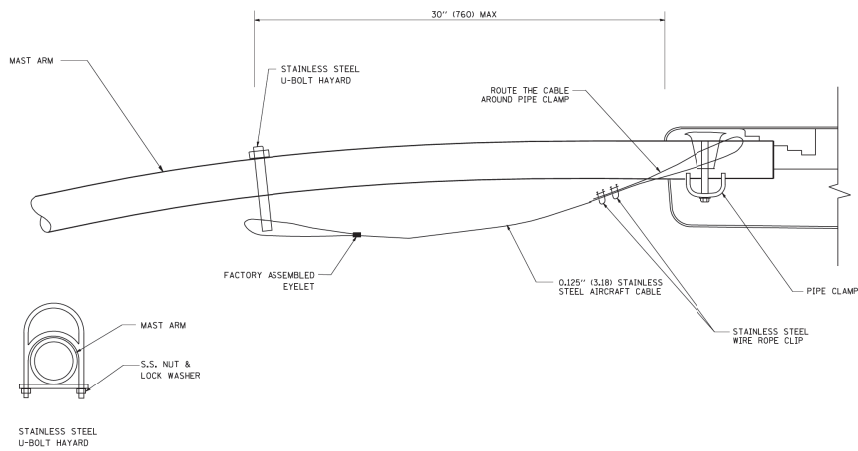
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DRAWN -	CJC	REVISED -	
CHECKED -	DTH	REVISED -	
DATE -	10-8-18	FILE -	061559.SL-De+alis.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

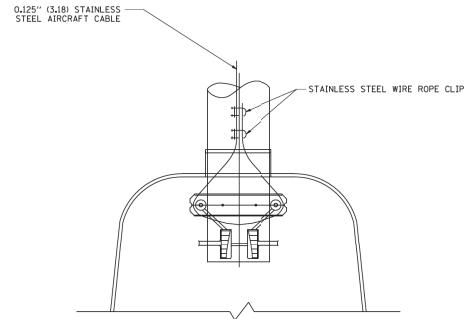
STREET LIGHTING DETAILS

SCALE: NONE	STA.	TO STA.
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F.A.U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	129
CONTRACT NO. 61085			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	



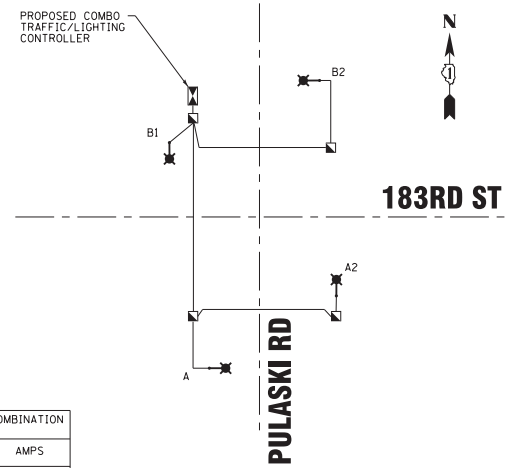
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.



LOAD TABULATION FOR IDOT COMBINATION LIGHTING CONTROLLER, 240V		
CIRCUIT	WATTS	AMPS
A	(2) 132	2.2
B	(2) 132	2.2
TOTAL		4.4

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 384-001821, EXPIRES 4/30/2019
 1/8/2019 10:08:48 AM
 PROJECT: 061559-SL-De+alis.dgn
 DRAWING: 061559-SL-De+alis.dgn
 SHEET: 161 OF 130

BAXTER & WOODMAN
Consulting Engineers

DESIGNED -	MWH	REVISED -	-
DRAWN -	CJC	REVISED -	-
CHECKED -	DTH	REVISED -	-
DATE -	10-8-18	FILE -	061559-SL-De+alis.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREET LIGHTING DETAILS

SCALE: NONE

STA. TO STA.

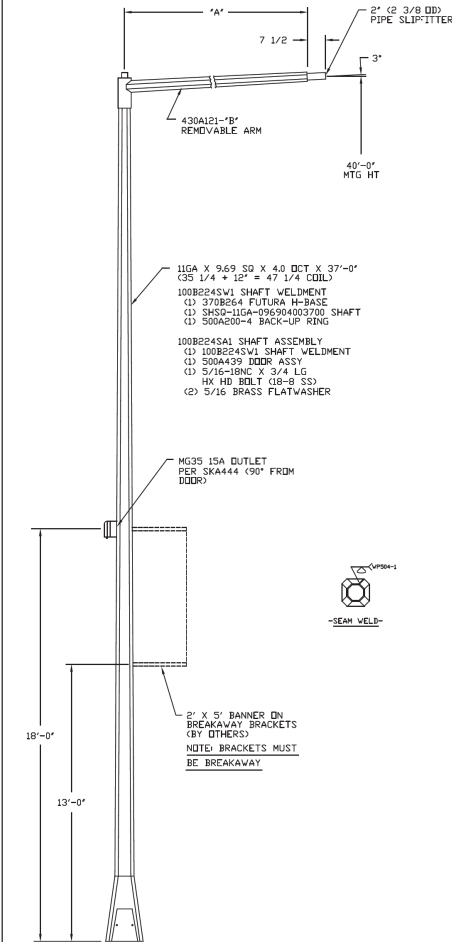
F.A.U. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	130
CONTRACT NO. 610R5				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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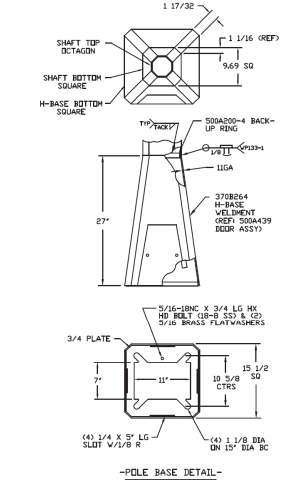
BAXTER & WOODMAN
 Consulting Engineers

DESIGNED -	MWH	REVISED -	
DRAWN -	CJC	REVISED -	
CHECKED -	DTH	REVISED -	
DATE -	10-8-18	FILE -	061559_SL-De+alis.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



- 11GA X 9.69 SD X 4.0 OCT X 37'-0"
 (35 1/4 x 12" = 47 1/4 COIL)
- 100B224S1 SHAFT WELDMNT
 (1) 370B264 FUTURA H-BASE
 (1) SHSD-11GA-096904003700 SHAFT
 (1) 500A200-4 BACK-UP RING
- 100B224S1 SHAFT ASSEMBLY
 (1) 100B224S1 SHAFT WELDMNT
 (1) 500A439 DDDR ASSY
 (1) 5/16-18NC X 3/4 LG HN HN BOLT (18-8 SS)
 (2) 5/16 BRASS FLATWASHER
- MG35 15A OUTLET PER SKA444 (90° FROM DDDR)
- 2' X 5' BANNER DN BREAKAWAY BRACKETS (BY OTHERS)
 NOTE: BRACKETS MUST BE BREAKAWAY



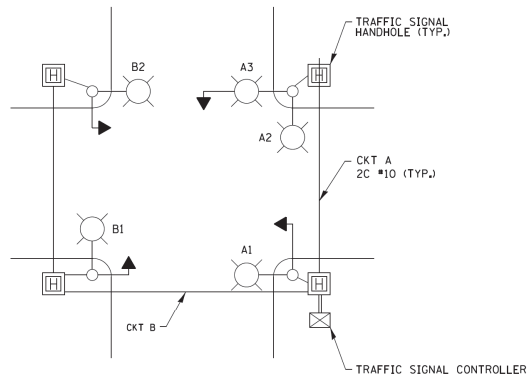
- NOTE:
- MATERIAL- HIGH STRENGTH LOW ALLOY SELF WEATHERING COR-TEN STEEL 50,000 PSI MIN YIELD PER ASTM A588 OR A606
 - DO NOT GROUT BETWEEN THE BASE PLATE AND FOUNDATION. AIR MUST BE ALLOWED TO FLOW THROUGH THE POLE TO PREVENT MOISTURE INSIDE THE POLE.
 - DESIGN LOAD 90 MPH WIND W/3-SEC GUST TOTAL LUMINAIRE EPA = 1.4 SD FT OVERTURN MOMENT = 30,700 FT SD TRANSVERSE SHEAR = 1,250 LBS
 - THE SHAFT WELDMNT, (B) REMOVABLE ARM & THE FOLLOWING PARTS ARE SHIPPED UNASSEMBLED
 (4) 1/2-18NC X 1" LG HN SKT
 CUP PT SET SCREW (18-8 SS)
 (1) 2 3/8 FLEX CAP
 (1) MG35 15A OUTLET PER SKA444
 - FINISH-

100B224-4	15'-0"	430A121-4	SGH-IR15-400-001	
100B224-3	12'-0"	430A121-3	SGH-IR12-400-001	
100B224-2	10'-0"	430A121-2	SGH-IR10-400-001	
100B224-1	8'-0"	430A121-1	SGH-IR8-400-001	
PART NO	QTY	'A' LG	'B' ARM	MODEL NO

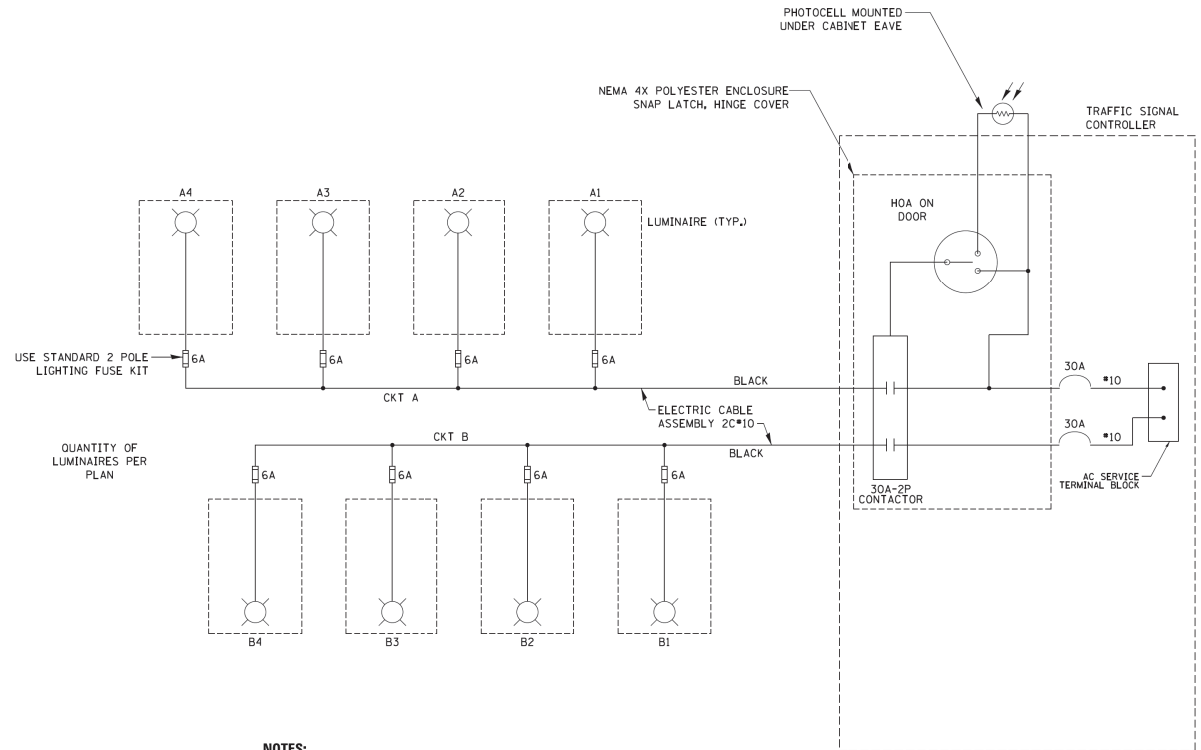
DWN WADE L.	SGH-IR(8,10,12&15)-400-001 1' AB'S, REMOVABLE ARM & MG35
DATE: 11-5-97	FUTURA TAPERED SQUARE POLE
CHK: FLOYD F.	
SCALE: NTS	MANUFACTURING CO. WINSTED, MN
	100B224

REV 10-3-98 CHANGED THE WIND LOAD TO 90 MPH
 REV 1-15-99 UPDATED FOR NEW REV 3-2-99 REV 3-2-99 REV 10-5-98

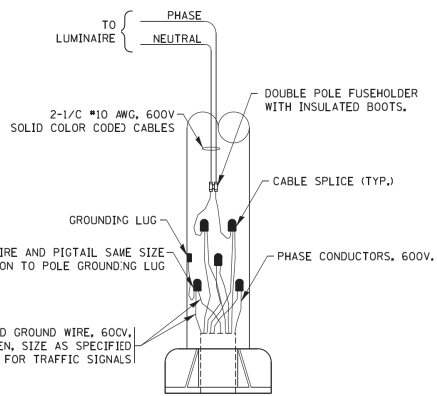
SCALE: NONE		STA. TO STA.	
F. ALL. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
377B	04-00026-01-WR	COOK	161 131
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61D85



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



QUANTITY OF LUMINAIRES PER PLAN



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES:

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V

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FILE NAME =	USER NAME = fcastm	DESIGNED - RT	REVISED - 02/10/2015
	be248.dgn	DRAWN -	REVISED - 10/13/2015
		CHECKED - RT	REVISED - T.G. 4/12/2017
		DATE - 08/18/2014	REVISED - R. TOMSONS 3/22/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

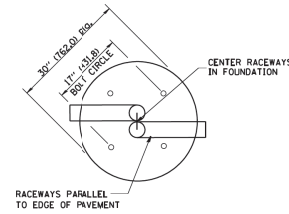
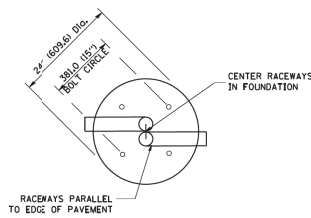
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. PILES	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 132
BE-240			CONTRACT NO. 61085
ILLINOIS FED. AID PROJECT			

LIGHT POLE FOUNDATION DEPTH TABLE
 40 FT. (12,192 m) TO 47.5 FT. (14,478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Du = 0.375 TON/SQ. FT.	13'-0" (3,96 m)	15'-0" (4,57 m)
MEDIUM CLAY Du = 0.75 TON/SQ.FT	9'-6" (2,93 m)	10'-9" (3,23 m)
STIFF CLAY Du = 1.50 TON/SQ. FT.	7'-0" (2,13 m)	8'-0" (2,44 m)
LOOSE SAND φ = 34°	9'-0" (2,74 m)	10'-0" (3,05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2,52 m)	9'-0" (2,74 m)
DENSE SAND φ = 40°	7'-9" (2,36 m)	9'-0" (2,74 m)

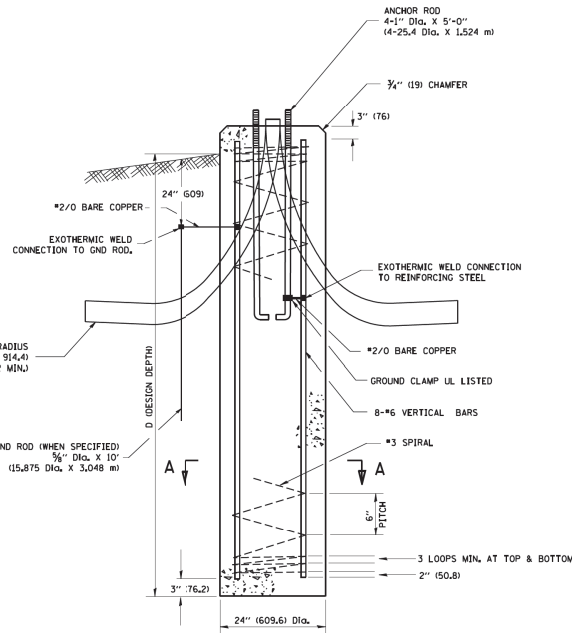


TOP VIEW

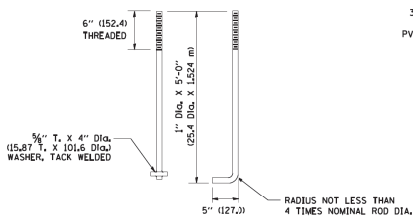
TOP VIEW

NOTES

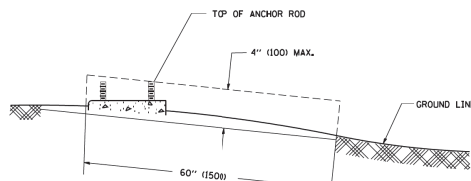
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE. THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 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 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 DR, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (68.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



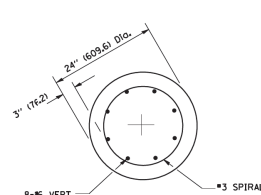
FOUNDATION DETAIL



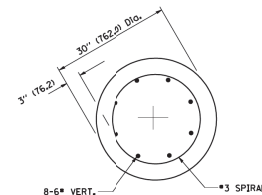
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12,192 m) TO 47 1/2' (14,478 m) M.H. 15" (381 mm) BOLT CIRCLE

FULL SITE:	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-0026-01-WR	COOK	161 133
BE-301		CONTRACT NO. 61085	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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

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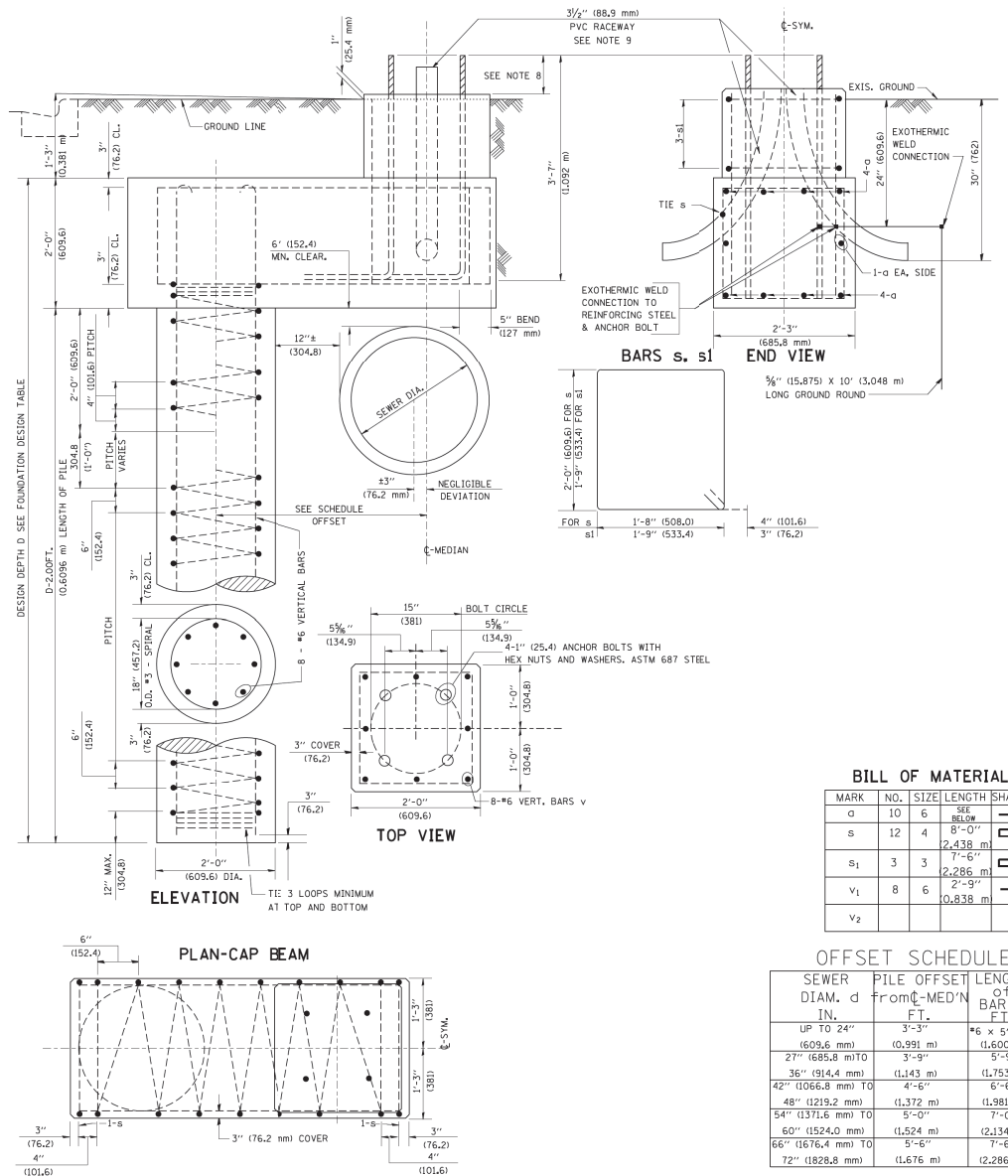
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1/4" = 1'-0"	-	-	-
PLOT DATE :	DATE :	REVISED :	-
1/4/2008	-	-	-

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 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENSION 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 ERRECTED.



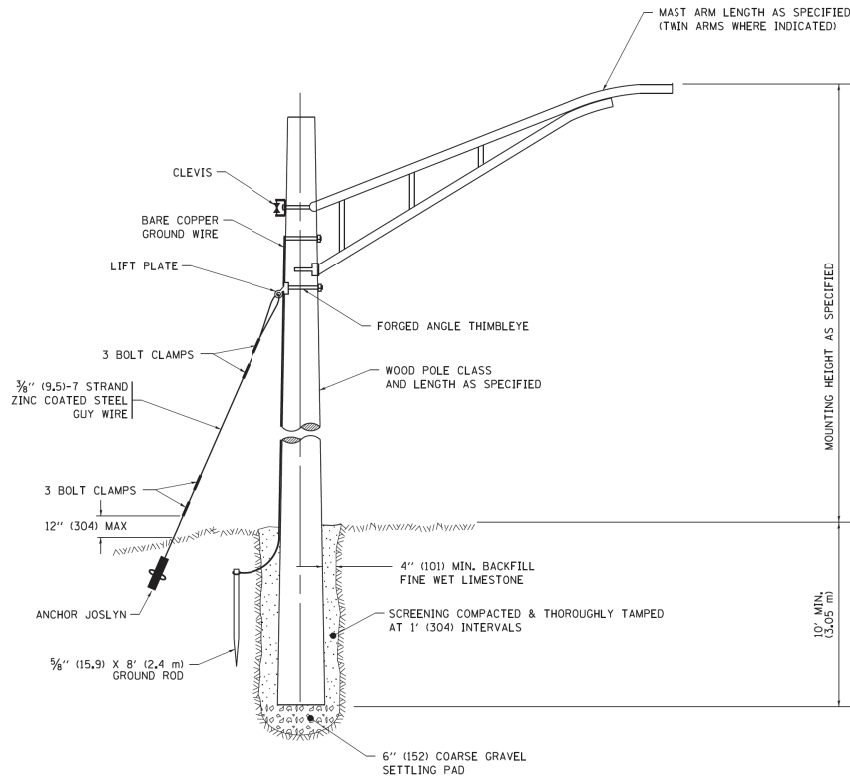
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 MATTHEW A. WOODMAN, INC.
 1000 W. 150th St., Suite 100
 Minneapolis, MN 55425
 (612) 933-8888
 mawoodman@att.net

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PLOT SCALE = 50.000 X / N.	CHECKED -	DATE -	REVISED -
PLOT DATE = 6/16/2008	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET 40' (12,192 m) TO 47' 12" (14,478 m) M.H. 15" (381 mm) BOLT CIRCLE		F.A.U. PILES	SECTION	COUNTY	TOTAL SHEET NO.
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	COOK	161 134
BE-310				CONTRACT NO. 61085	
ILLINOIS FED. AID PROJECT					

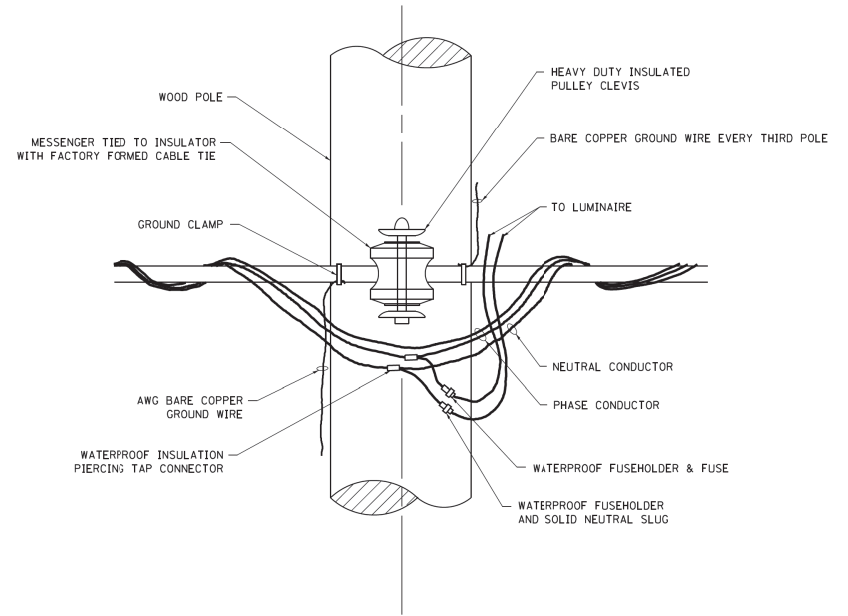
6/16/2008
K:\sistatd22\34\be310.dgn
bward



TEMPORARY LIGHT POLE DETAIL

NOTE:

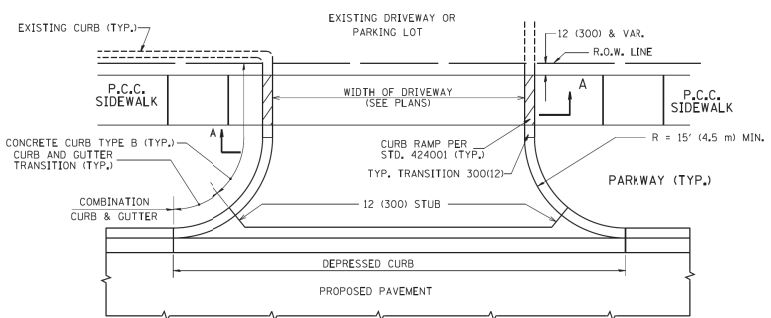
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



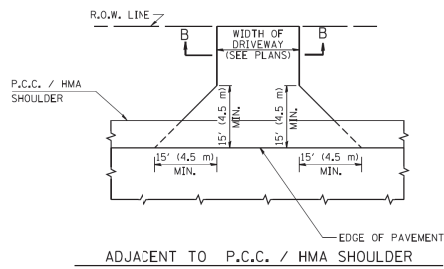
TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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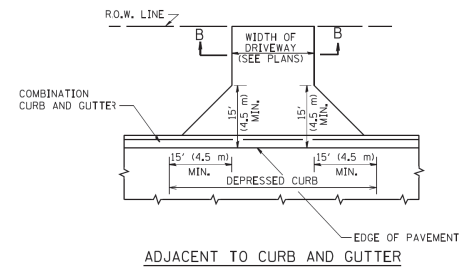
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		CHECKED -	REVISED -		BE-800		CONTRACT NO. 61085				
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SCALE: NONE				SHEET 1 OF 1 SHEETS		STA. TO STA.					



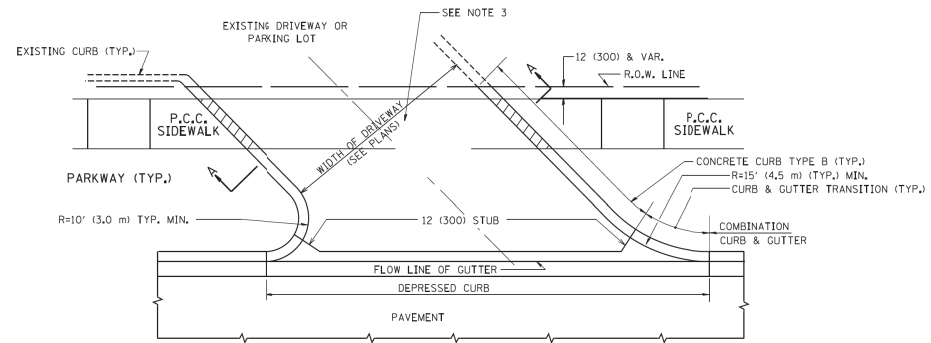
WITH CONCRETE CURB, TYPE B



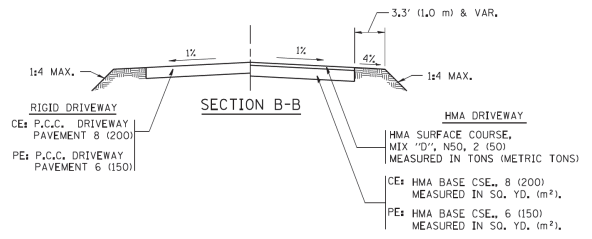
ADJACENT TO P.C.C. / HMA SHOULDER



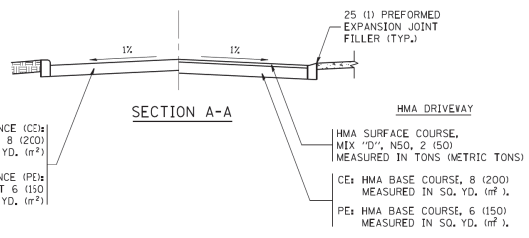
ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B



SECTION B-B



SECTION A-A

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/705-4111 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

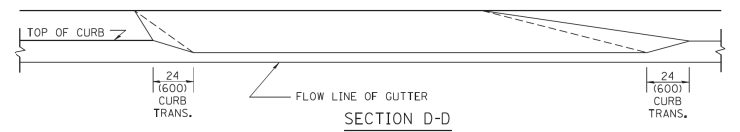
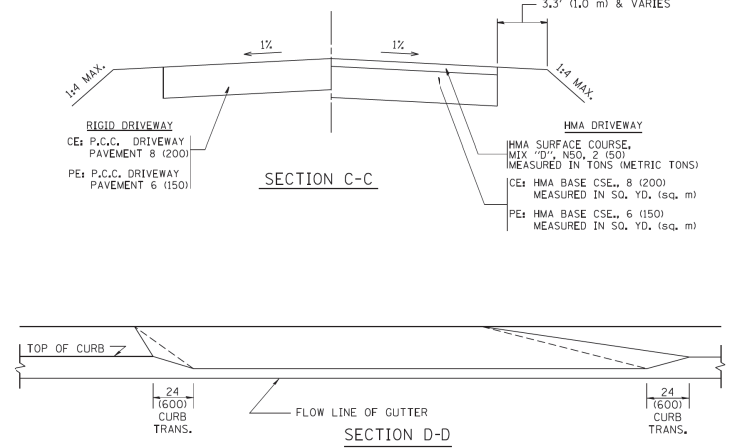
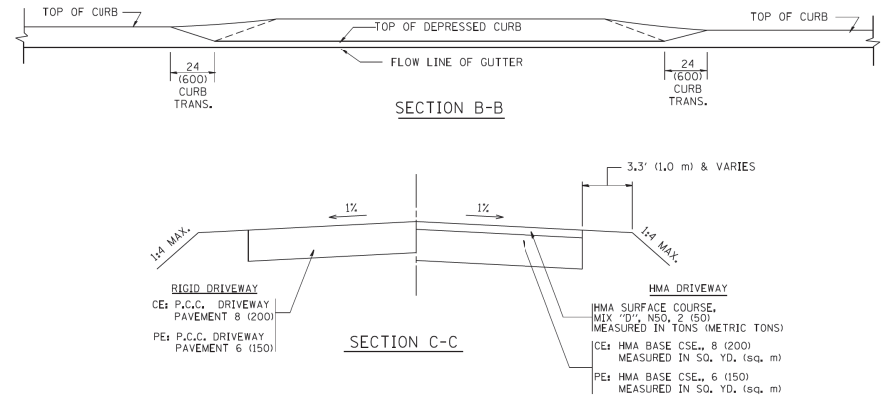
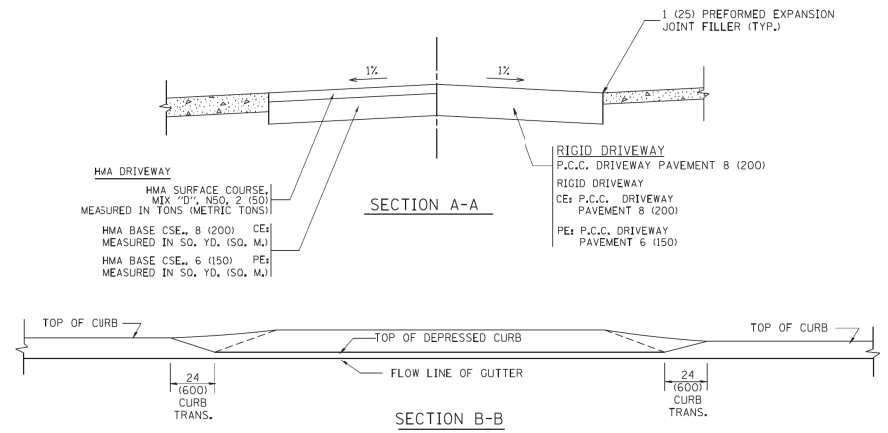
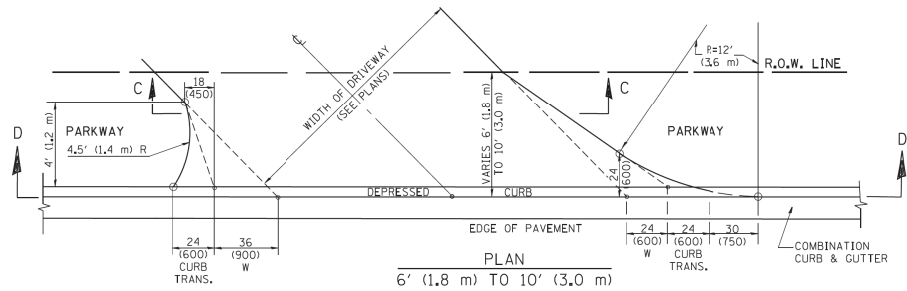
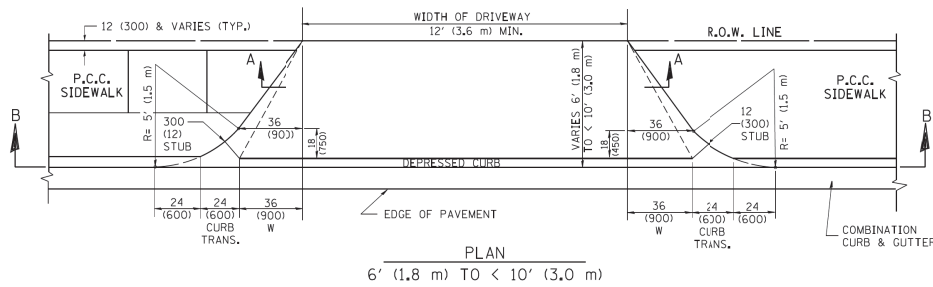
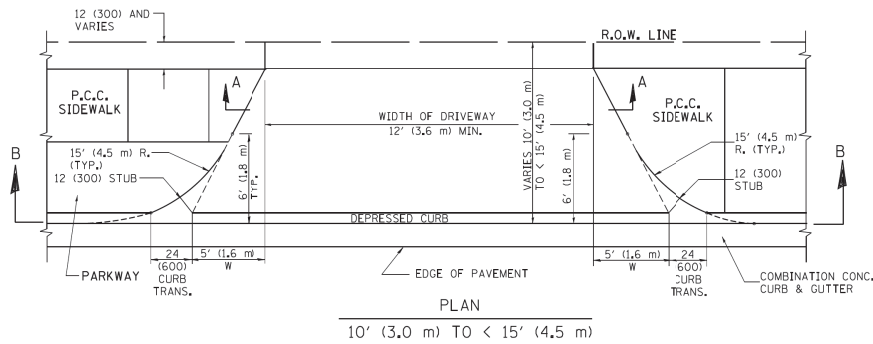
RURAL FIELD ENTRANCE (IFE)
 HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN SQ. YD. (m²)
 CE: HMA BASE CSE., 8 (200) MEASURED IN SQ. YD. (m²)
 PE: HMA BASE CSE., 6 (150) MEASURED IN SQ. YD. (m²)
 AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²)

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PLOT DATE = 9/6/2011	DATE = 11-04-95	REVISOR - R. BORO 09-06-11	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)		F.U.I. ETS:	SECTION	COUNTY	TOTAL SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.		COOK	161 136
		TO STA.	04-00026-01-WR	BD0156-07 (BD-01)	CONTRACT NO. 61D85
			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

'W' VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3.0 m).

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

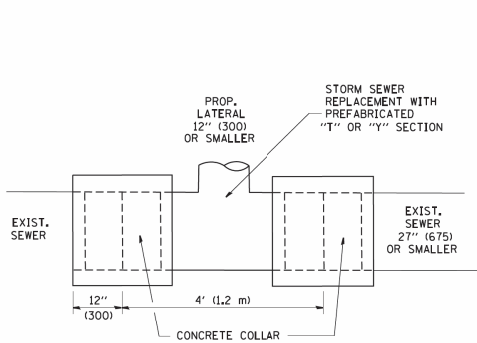
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)**

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PLOT DATE = 10/28/2011		DATE = 11-06-95	REVISED - R. BORO 09-06-11

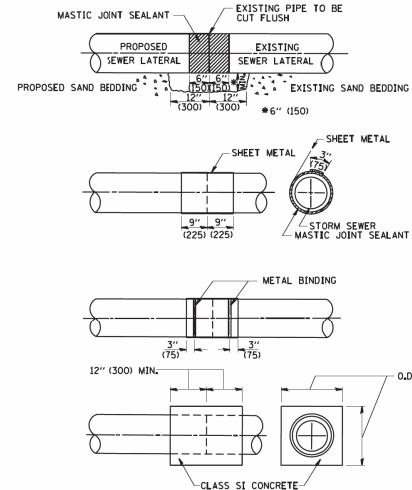
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F.U.I. FTS: 3778	SECTION 04-00026-01-WR	COUNTY COOK	TOTAL SHEETS 161	SHEET NO. 137
BD400-02 (BD-02)				CONTRACT NO. 61D85
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

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DETAIL "A"

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

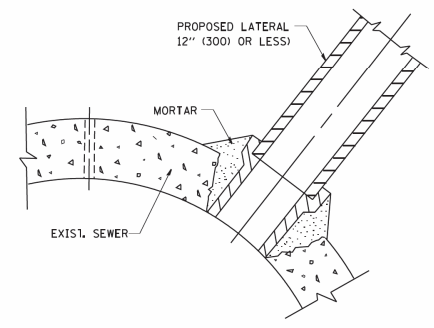


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

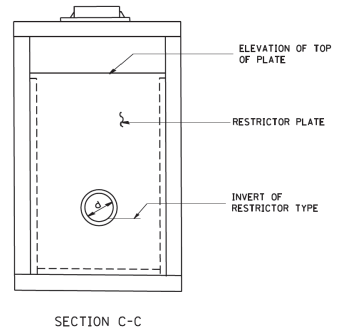
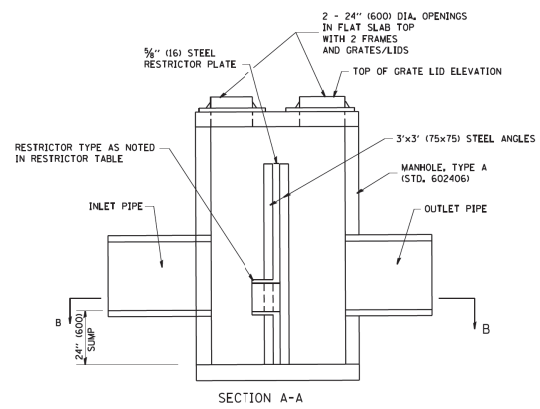
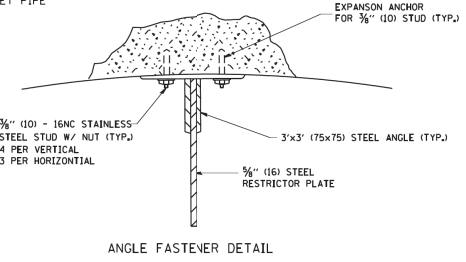
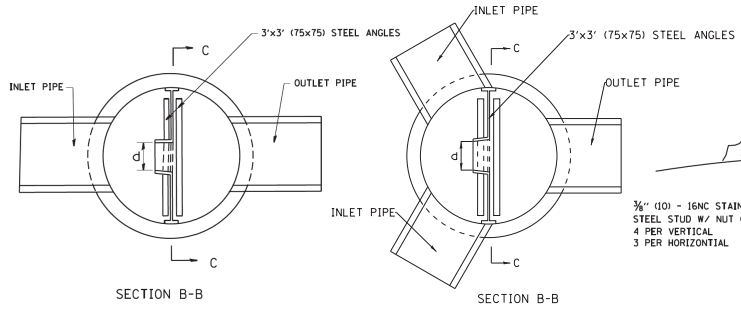
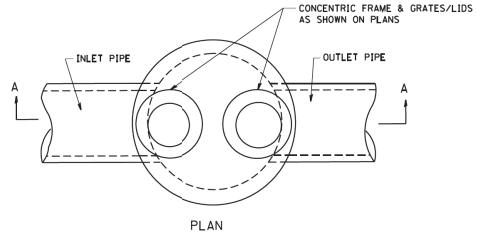
TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

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

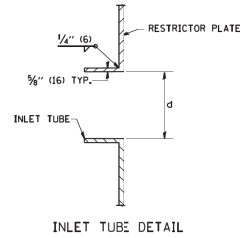
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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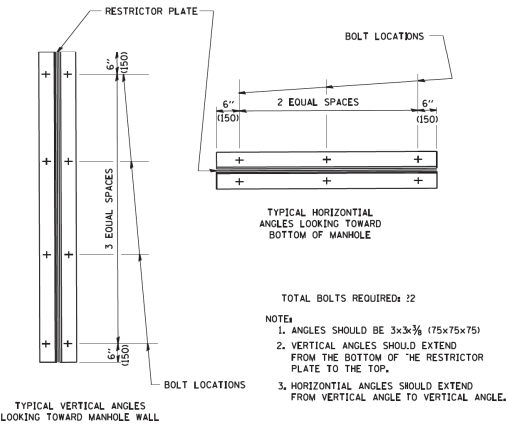
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PLOT SCALE = 50.000 X 1/8"	CHECKED -	DRAWN -	REVISED - R. SHAH 09-09-14			SCALE: NONE	SHEET NO. 1 OF 1	SHEETS: STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/4/2008	DATE = 07-25-90	REVISED - R. SHAH 10-25-94	REVISED - R. SHAH 06-12-96			BD500-01 (BD-7) CONTRACT NO. 61D85						



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT., (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STRUCTURE LABEL	STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
S4-9	104+80	6 FT	TY 1 FR, CLID	2	20 IN	680.22	683.59
S5-13	112+66	6 FT	TY 1 FR, CLID	2	12 IN	686.36	670.33



- TOTAL BOLTS REQUIRED: 2
- NOTE:
1. ANGLES SHOULD BE 3x3-3/8 (75x75x75)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

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

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

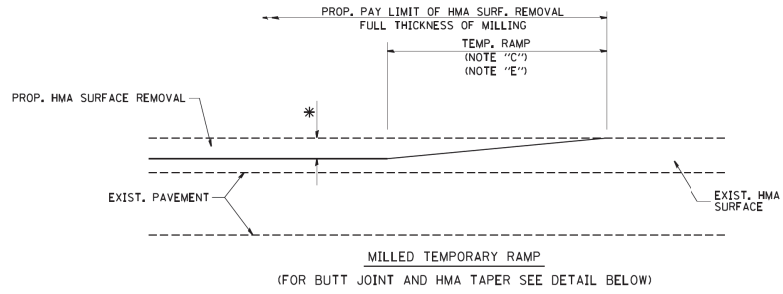
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FILE NAME =	USER NAME = geglano	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
W:\distad\22x34\ball2.dgn		DRAWN -	REVISED - E. GOMEZ 08-28-00
		CHECKED -	REVISED - M. GOMEZ 01-08-01
		DATE - 09-09-94	REVISED -

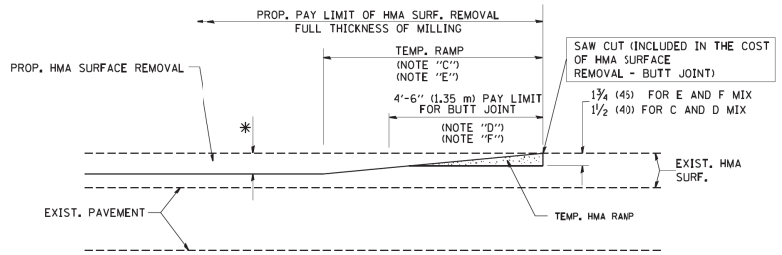
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE		F.A.L. SITE: 3178	SECTION: 04-00026-01-WR	COUNTY: COOK	TOTAL SHEET NO.: 161	SHEET NO.: 139
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS: STA.	TO STA.	BD600-04 (BD-12) CONTRACT NO. 61D85		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

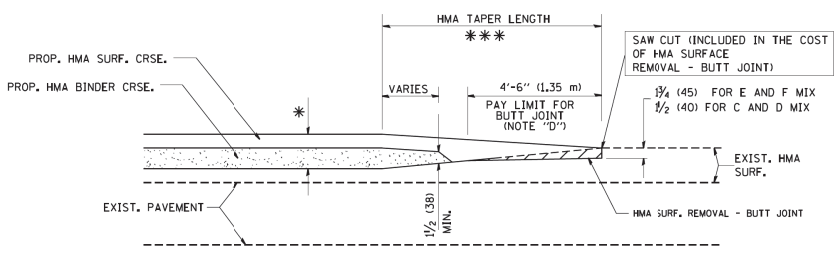
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



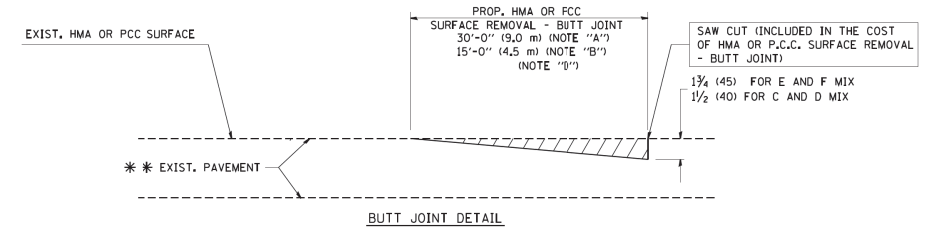
OPTION 1



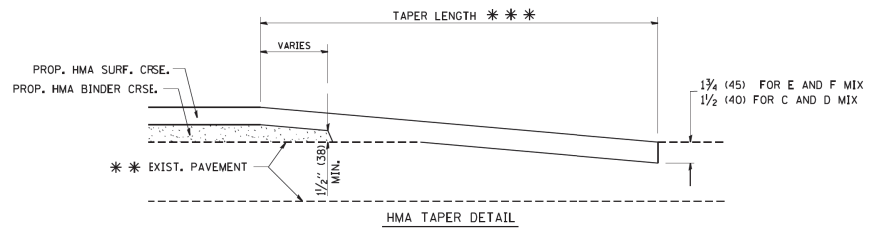
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

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

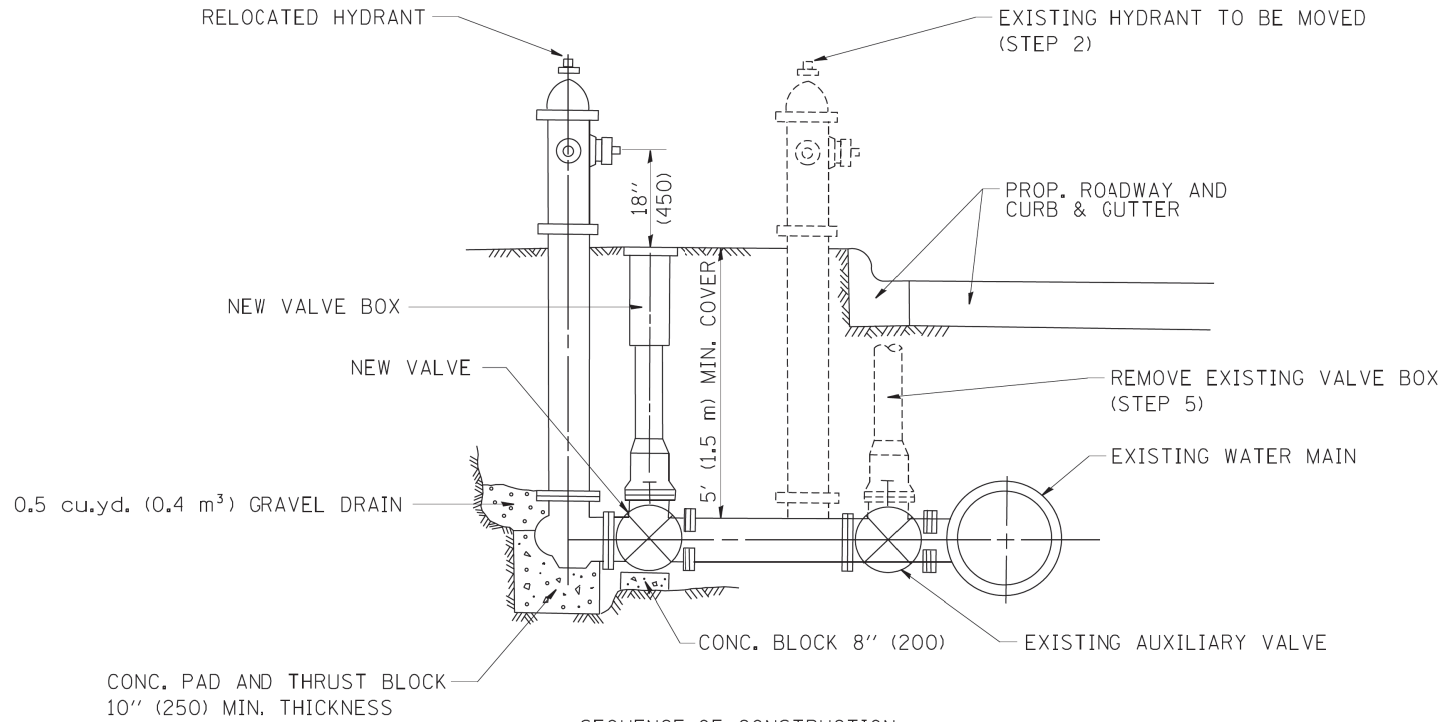
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		DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 50.0000 "/>			

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. SITE:	SECTION:	COUNTY:	TOTAL SHEETS NO.:
3778	04-00026-01-WR	COOK	161 140
BD400-05 BD32			CONTRACT NO. 61D85
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



SEQUENCE OF CONSTRUCTION:

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

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

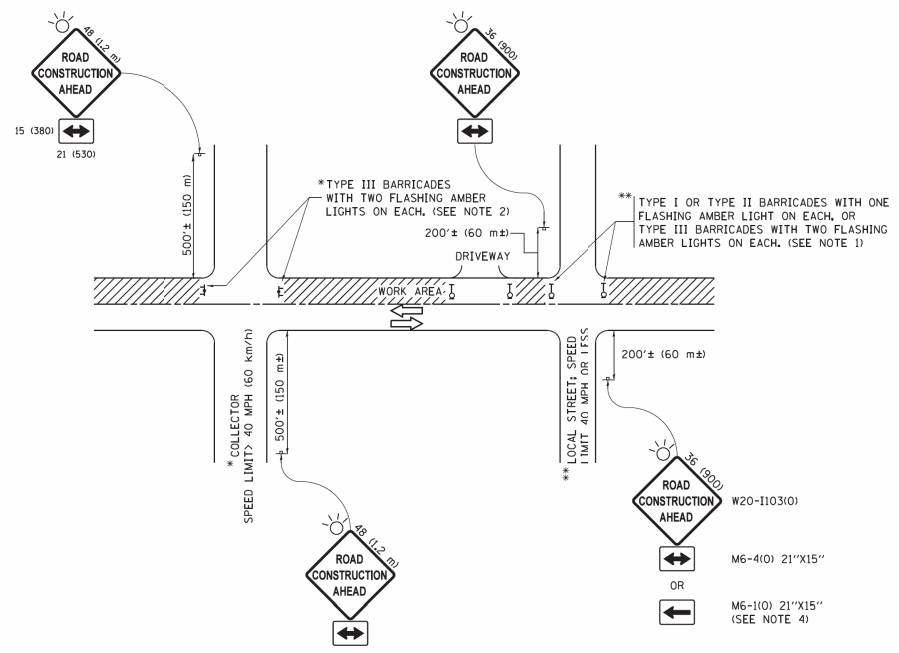
FIRE HYDRANT TO BE MOVED

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

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FILE NAME =	USER NAME = geglennob	DESIGNED -	REVISED - R. SHAM 09-05-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A. ILL		COUNTY	TOTAL
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PLOT SCALE = 50.0000' / 1" IN.	CHECKED -	REVISED -	SCALE: NONE		SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	NO.	141
PLOT DATE = 1/4/2008	DATE -	REVISED -				BD-36		CONTRACT NO. 61085			
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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 USER: [unclear] DATE: 09/15/2016 10:00 AM
 PLOT: [unclear] PLOT DATE: 09/15/2016 10:00 AM
 FILE: [unclear]



NOTES:

- 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 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.
- 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 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).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1) OR (M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

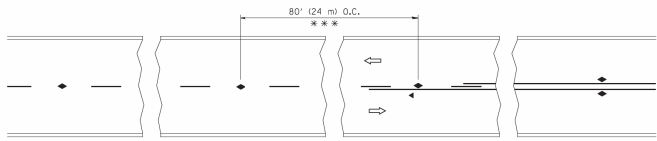
All dimensions are in inches (millimeters) unless otherwise shown.

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			REVISED - T. RAMMACHER 01-06-00
		CHECKED -	REVISED - A. SCHUETZE 07-01-13
		DATE - 06-89	REVISED - A. SCHUETZE 05-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

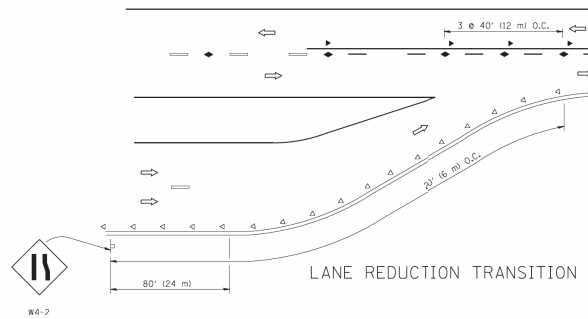
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 61085	
ILLINOIS FED. AID PROJECT				

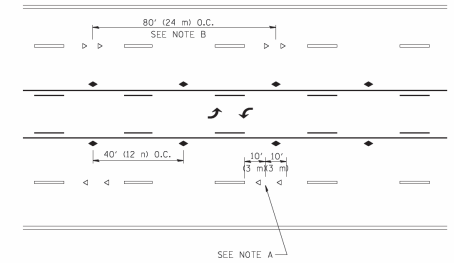


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

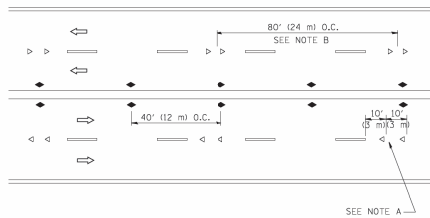
TWO-LANE/TWO-WAY



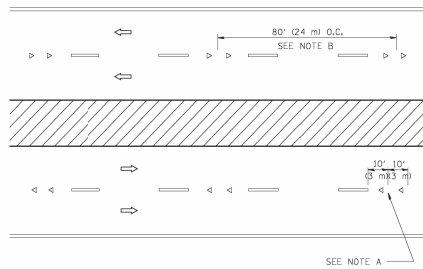
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (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

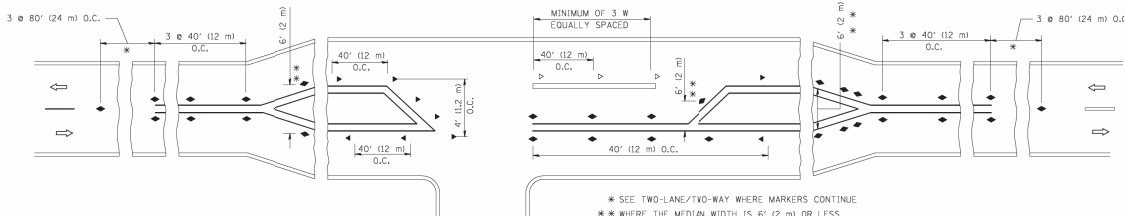
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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. (16 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.



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

LEFT TURN

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 DATE: 09/19/2019
 USER: d-r-ivakosign
 PLOT DATE: 9/19/2019

FILE NAME =	USER NAME = d-r-ivakosign	DESIGNED =	REVISED - T. RAMMACHER 09-19-94
		DRAWN =	REVISED - T. RAMMACHER 03-12-99
		CHECKED =	REVISED - T. RAMMACHER 01-06-00
		DATE =	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS				F.A.U. E.P.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)				3778	04-00026-01-WR	COOK	161	143
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.				TC-11 CONTRACT NO. 61085				
				FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

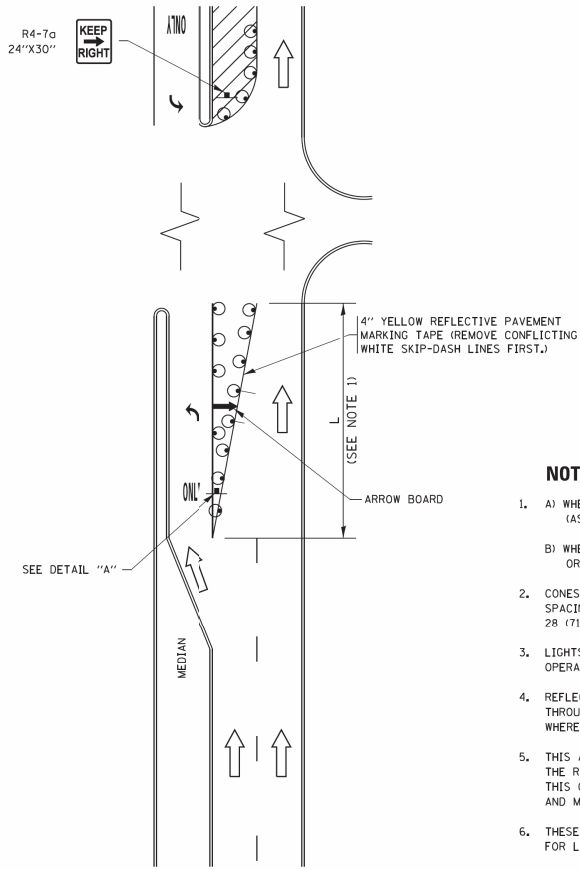
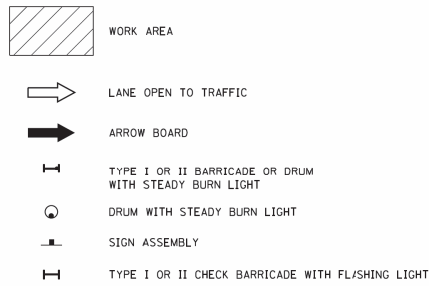


FIGURE 1

LEGEND



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. 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" R3-1100R 24 x 24 (600 x 600) AND M6-2R 2 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

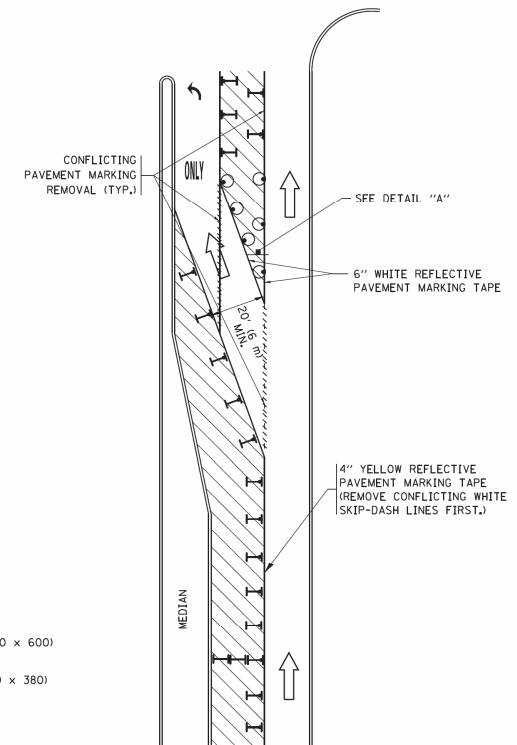
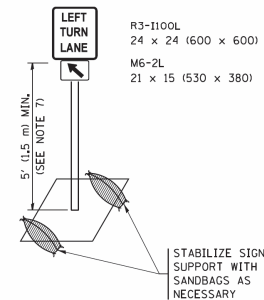


FIGURE 2



DETAIL A

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

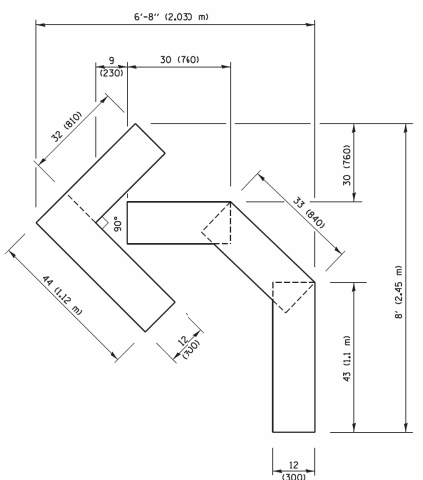
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

FAU SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14			CONTRACT NO. 61085	
ILLINOIS FED. AID PROJECT				

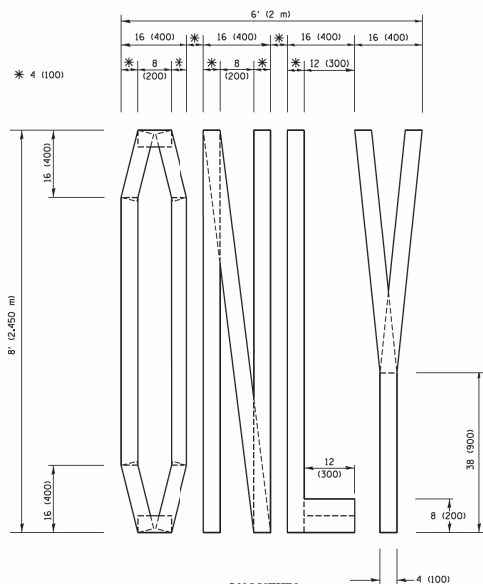
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

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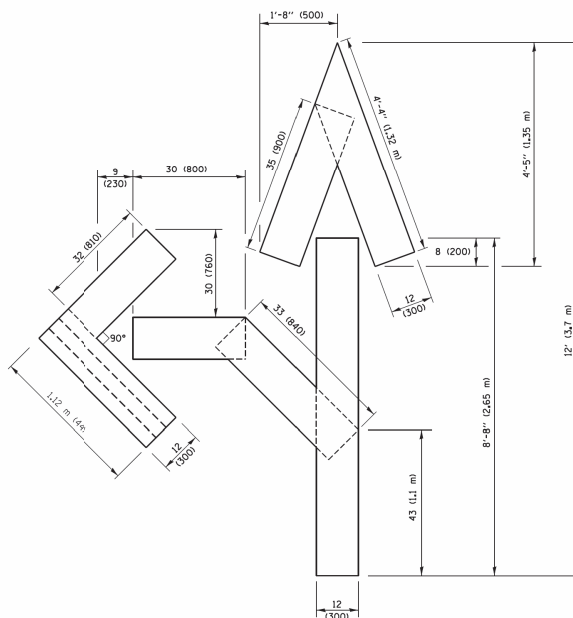
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...	footestj	- T. RAMMACHER	09-08-94	REVISED - R. BORO
...	...	REVISED - A. SCHUETZE	07-01-13	REVISED - A. SCHUETZE
...	...	REVISED - A. HOUSEH	10-12-96	REVISED - A. SCHUETZE
...	...	REVISED - T. RAMMACHER	01-06-00	REVISED -



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

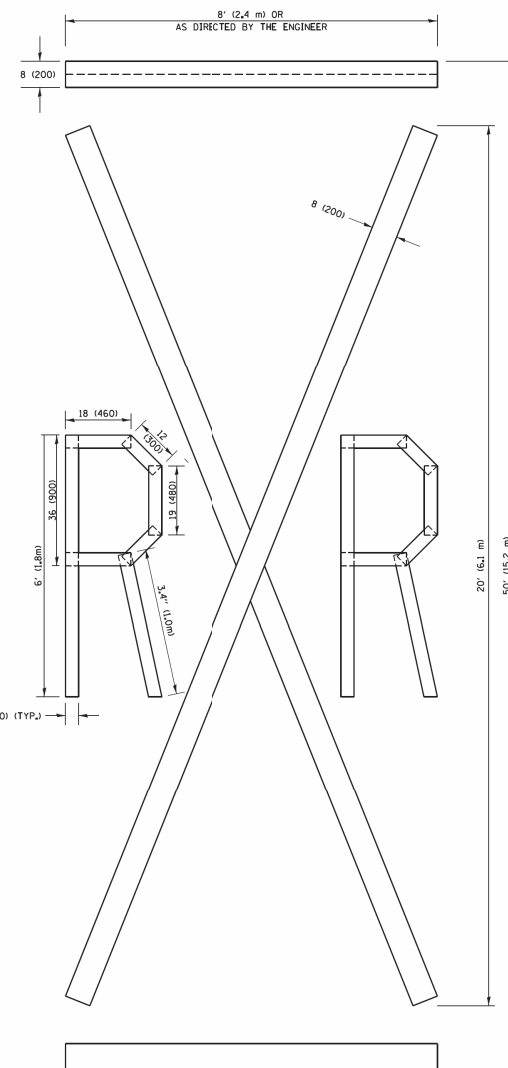


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

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 TEL: 773.233.4400 FAX: 773.233.4401
 WWW.MATHERWOODMAN.COM

FILE NAME :	USER NAME = foostm	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
		DRAWN	REVISED -E. GOMEZ 08-28-90
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		DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

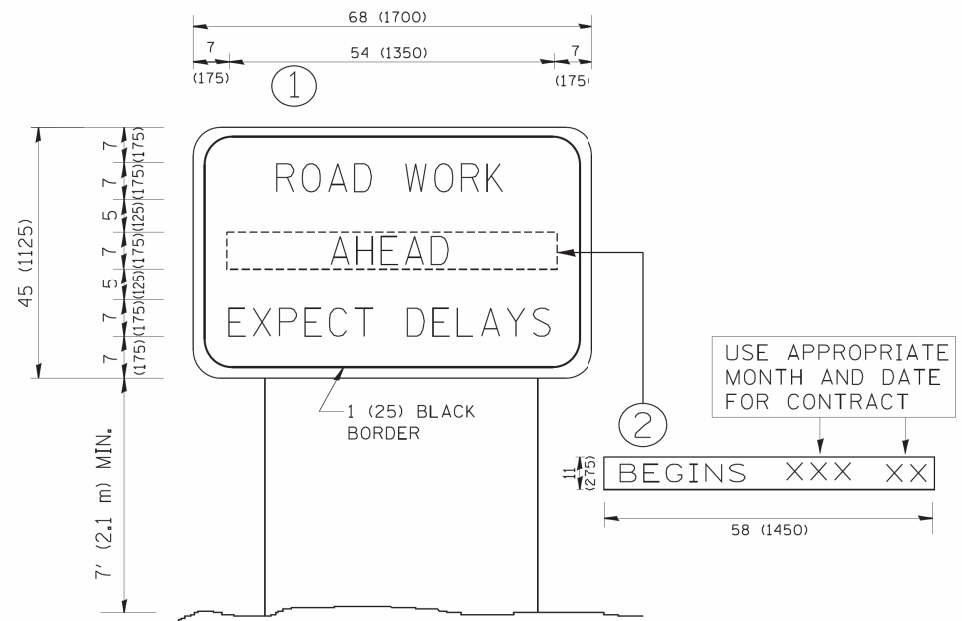
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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FULL SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3178	04-00026-01-WR	COOK	161	146
TC-16			CONTRACT NO. 61085	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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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:\disto\22x34\to22.dgn

USER NAME = geglennob
 PLOT SCALE = 50.000 X 1/16"
 PLOT DATE = 1/4/2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED - R. MIRS 09-15-97
 REVISED - R. MIRS 12-11-97
 REVISED - T. RAMMACHER 02-02-99
 REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
 INFORMATION SIGN**
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

FULL SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	147
TC-22			CONTRACT NO. 61085	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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 1/12/2012 10:00:00 AM 10/24/12 10:00:00 AM

FILE NAME -	USER NAME = gegl1anob1	DESIGNED -	REVISED - C. JUCIUS 02-15-07
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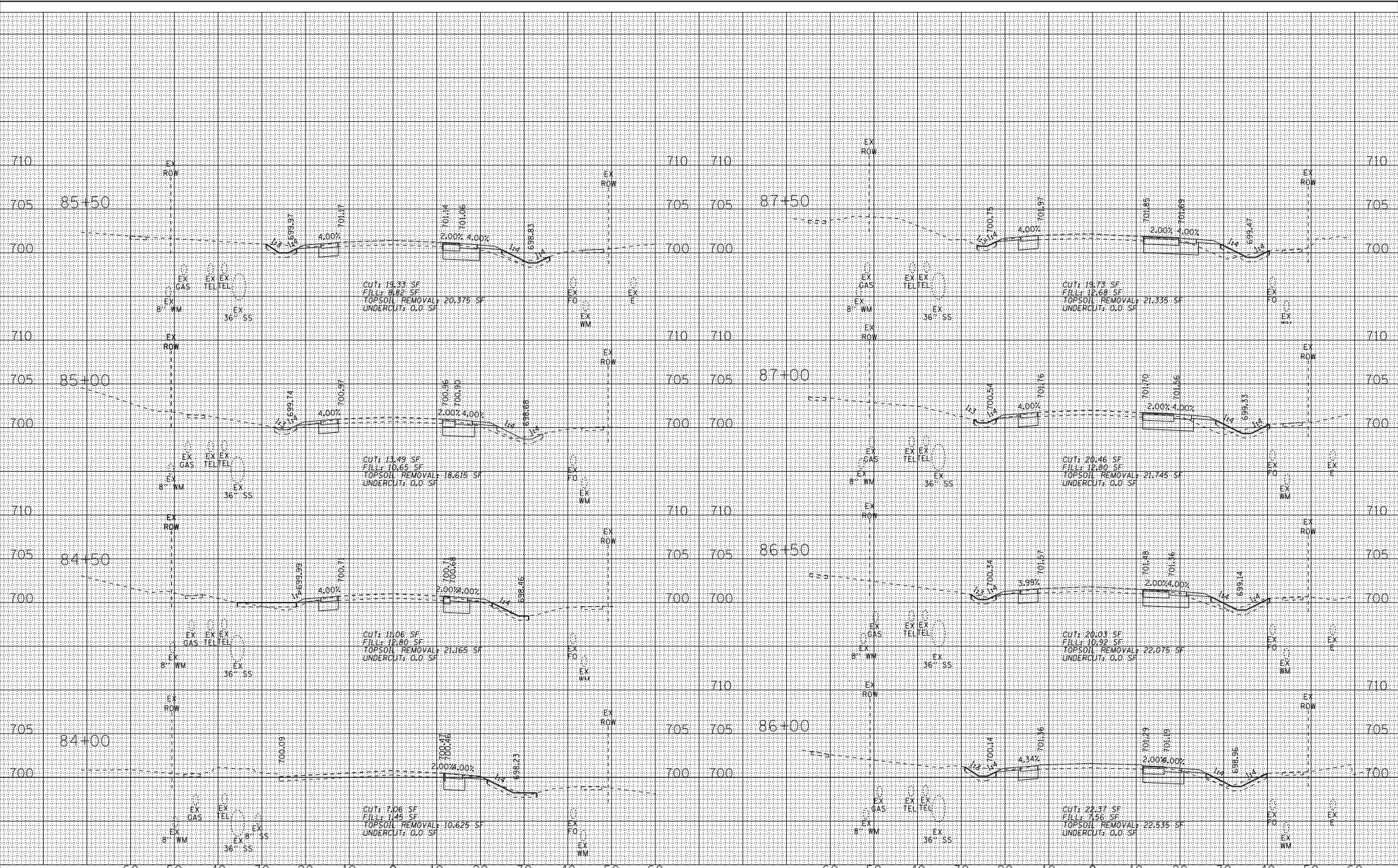
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

F.A.U. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	148
TC-26			CONTRACT NO. 61D85	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...806159SHT-PH2-XS-PULASKI.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

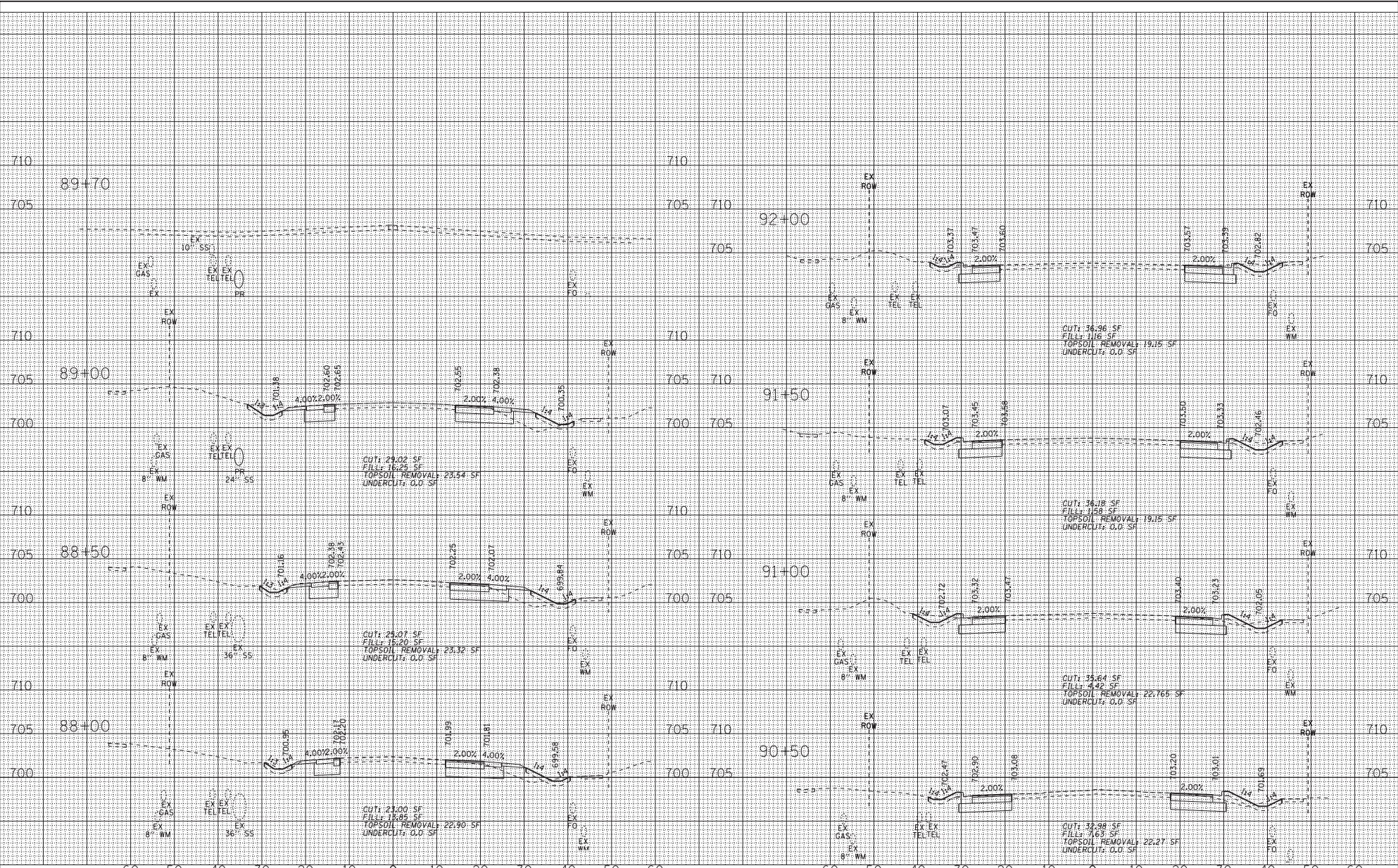
CROSS SECTIONS
PULASKI ROAD

SCALE: H₁ 1"=10' V₁ 1"=5'

STA. 84+00 TO STA. 87+50

F.P.D. RITE 3778	SECTION 04-0026-01-WR	COUNTY COOK	TOTAL SHEETS 161	SHEET NO. 149
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61085	

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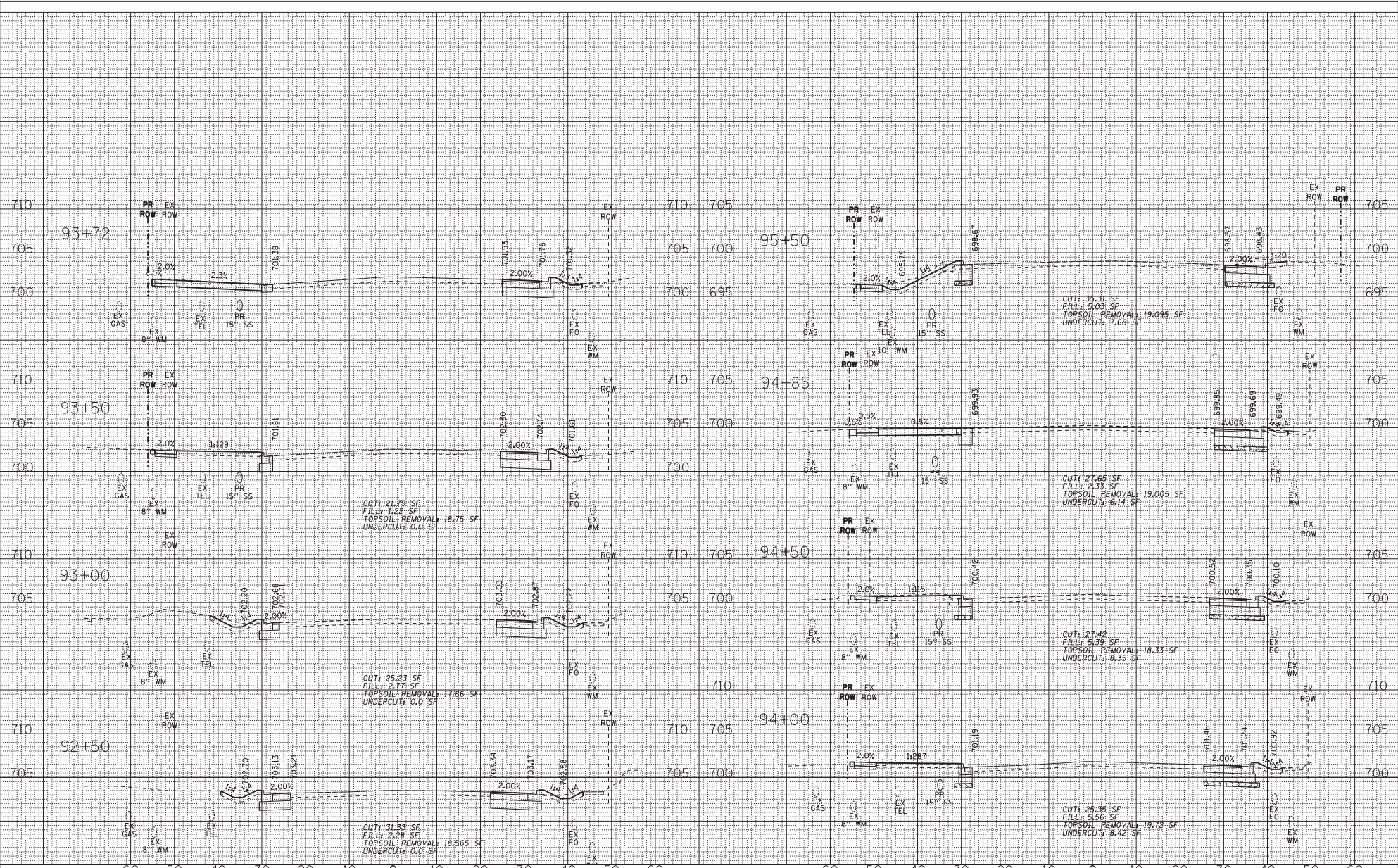
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DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...806159SHT-PH2-XS-PULASKI.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PULASKI ROAD

SCALE: H ₁ 1"=50' V ₁ 1"=5'	STA. 88+00 TO STA. 92+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
P.L.U. R.T.E. 3778	SECTION 04-0026-01-WR	COUNTY COOK
		TOTAL SHEETS 161
		SHEET NO. 150
		CONTRACT NO. 61085

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 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 200 SOUTH MICHIGAN STREET, CHICAGO, ILLINOIS 60604-1099



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DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...8061595SHT-PH2-XS-PULASKI.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PULASKI ROAD

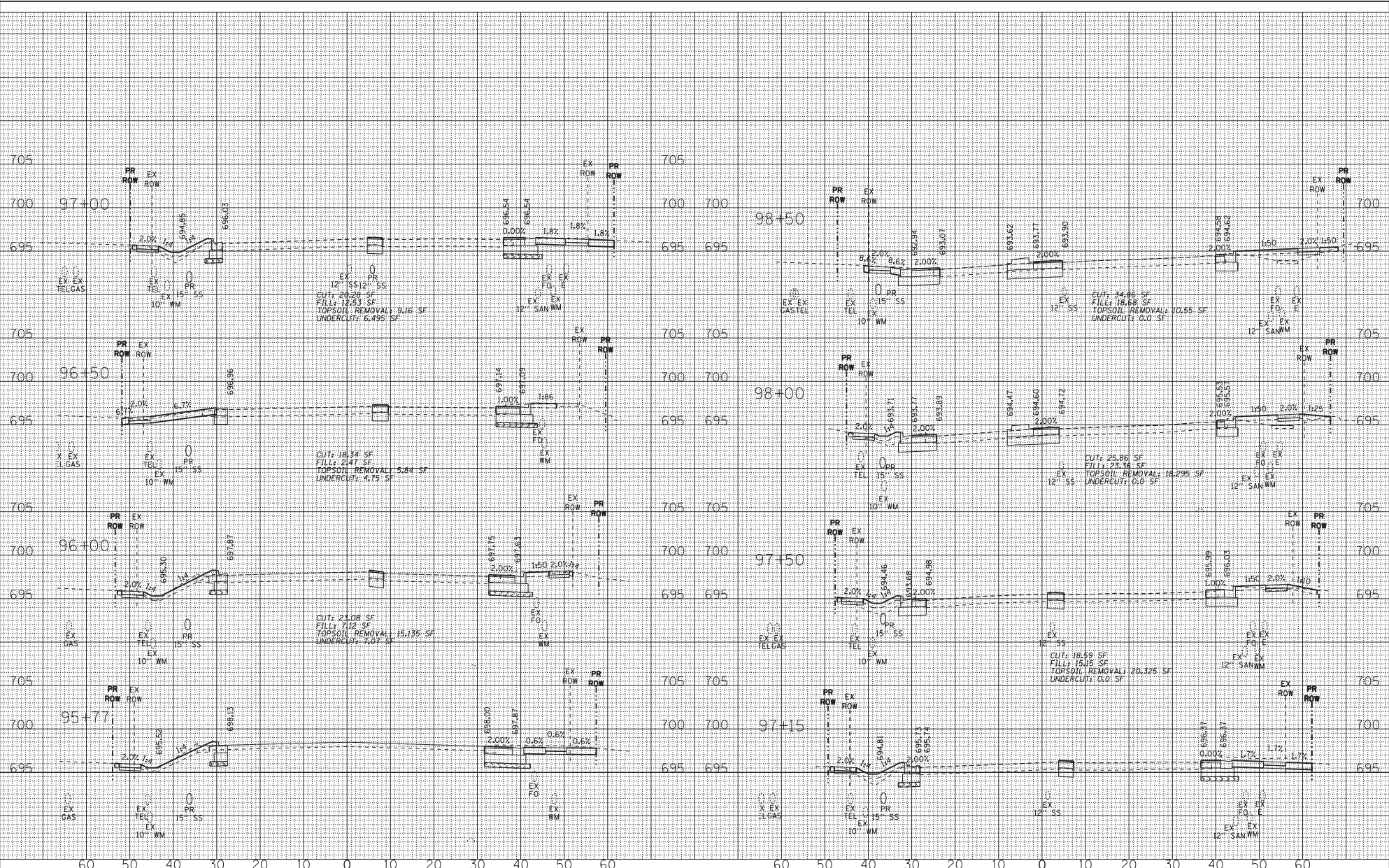
SCALE: H₁ 1"=10' V₁ 1"=5'

STA. 92+50 TO STA. 95+50

F.P.D. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	151

CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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 PROJECT: ILLINOIS STATE ROUTE 150 PULASKI ROAD
 SHEET: PH2-XS-PULASKI



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CHECKED - DTH	REVISED -
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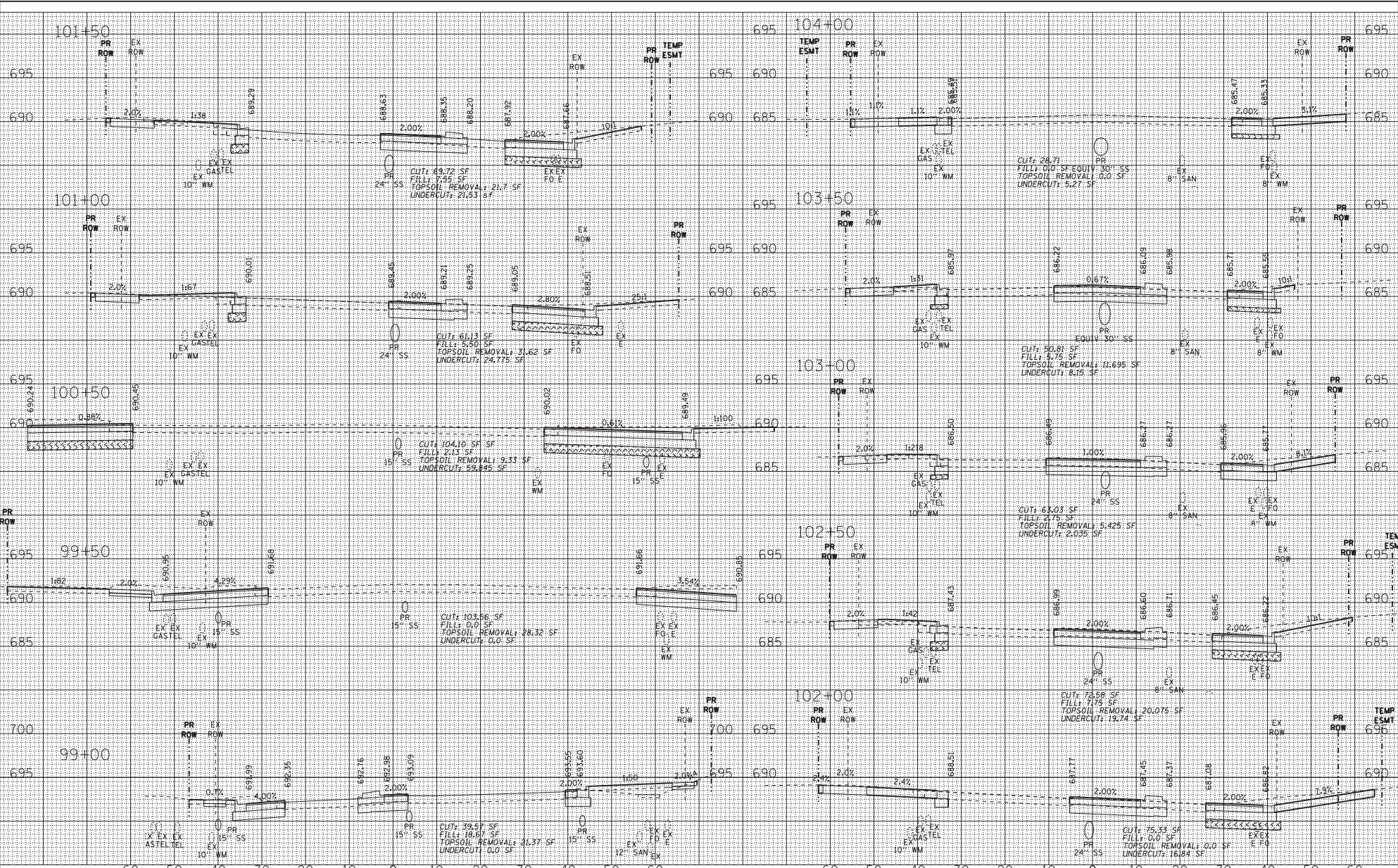
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PULASKI ROAD

SCALE: H₁ 1"=10' V₁ 1"=5'
STA. 95+77 TO STA. 98+50

F.P.D. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 152
CONTRACT NO. 61085			FED. AID PROJECT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

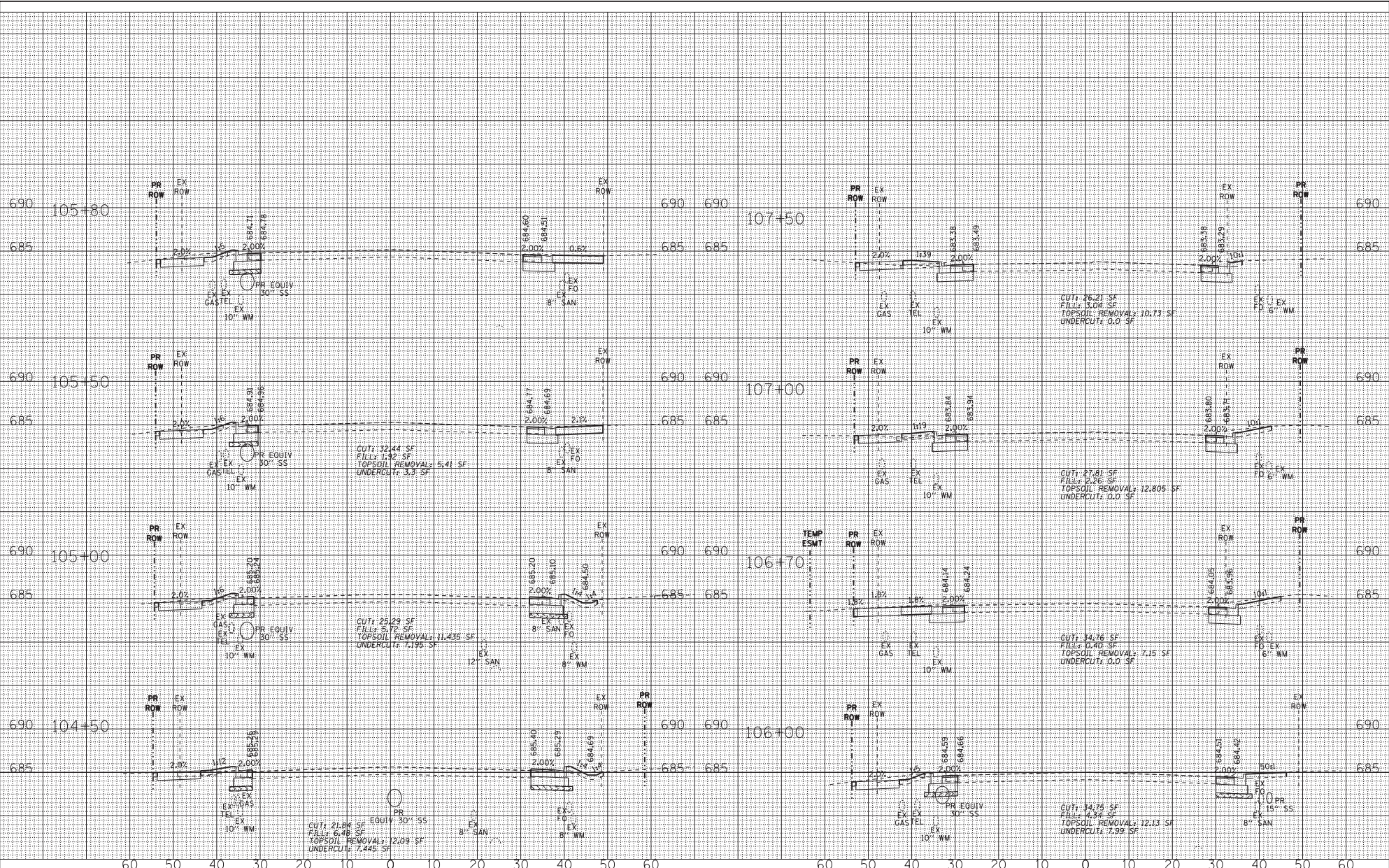
CROSS SECTIONS
PULASKI ROAD

SCALE: H₁ 1"=10' V₁ 1"=5'

STA. 99+00 TO STA. 104+00

F.P.D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-0026-01-WR	COOK	161	153
CONTRACT NO. 610895				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...061559SHT-PH2-XS-PULASKI.dgn

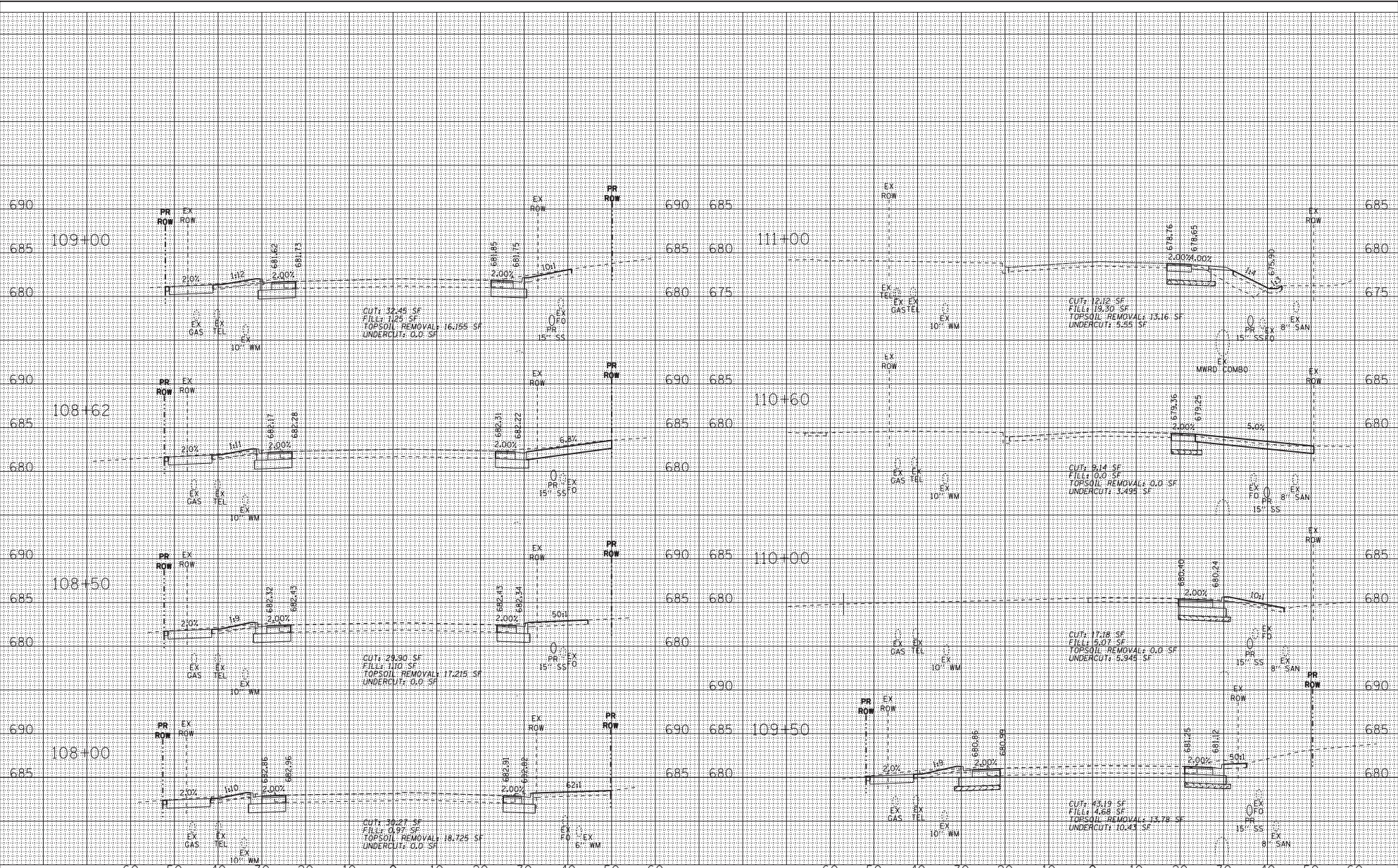
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PULASKI ROAD

SCALE: H₁ 1"=10' V₁ 1"=5'
STA. 104+50 TO STA. 107+50

F.P.D. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	154
CONTRACT NO. 61085			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

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 PROJECT NO. 04-00026-01-WR
 SHEET NO. 161 OF 155



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CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...806159SHT-PH2-XS-PULASKI.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

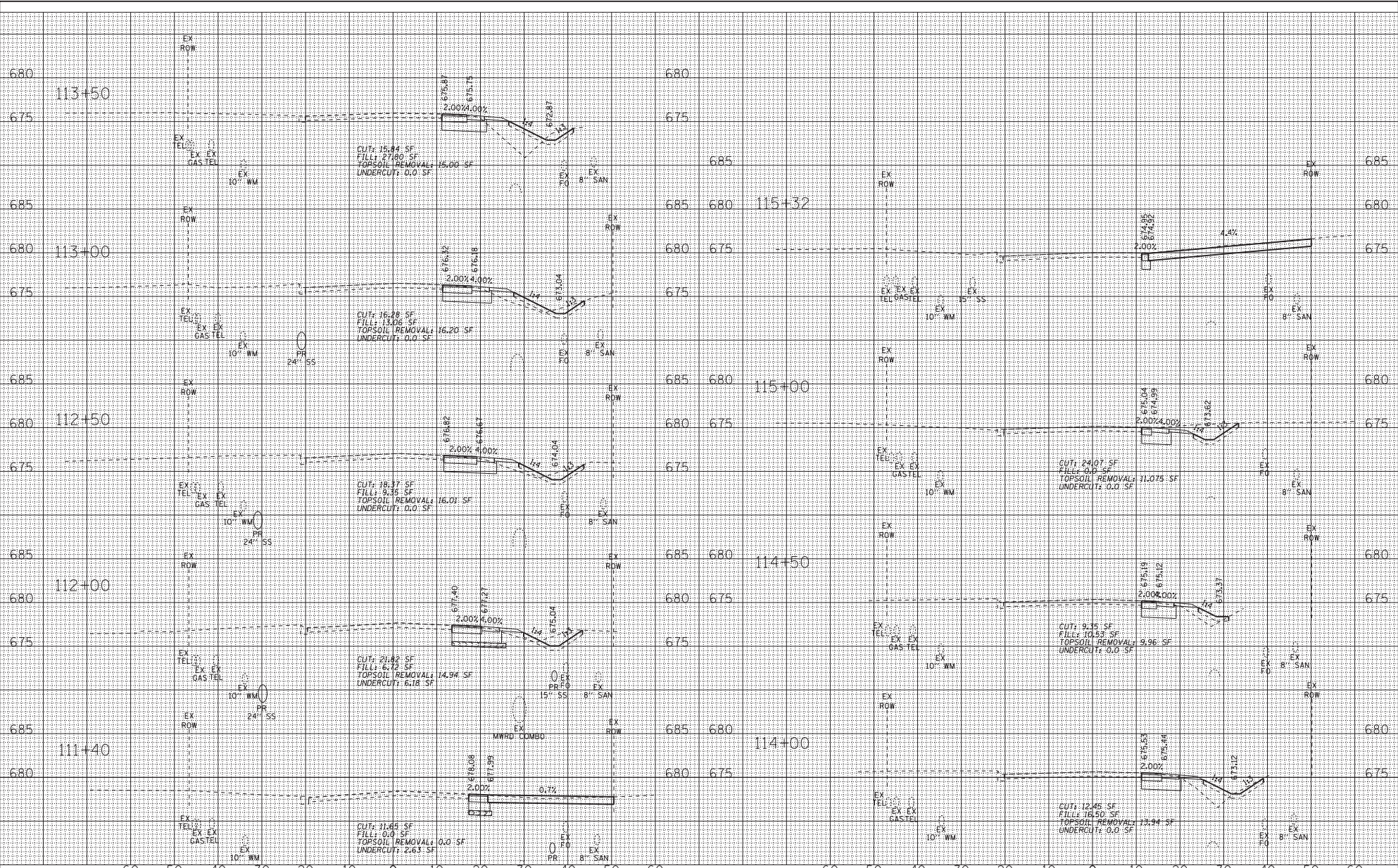
CROSS SECTIONS
PULASKI ROAD

SCALE: H₁ 1"=10' V₁ 1"=5'

STA. 108+00 TO STA. 111+00

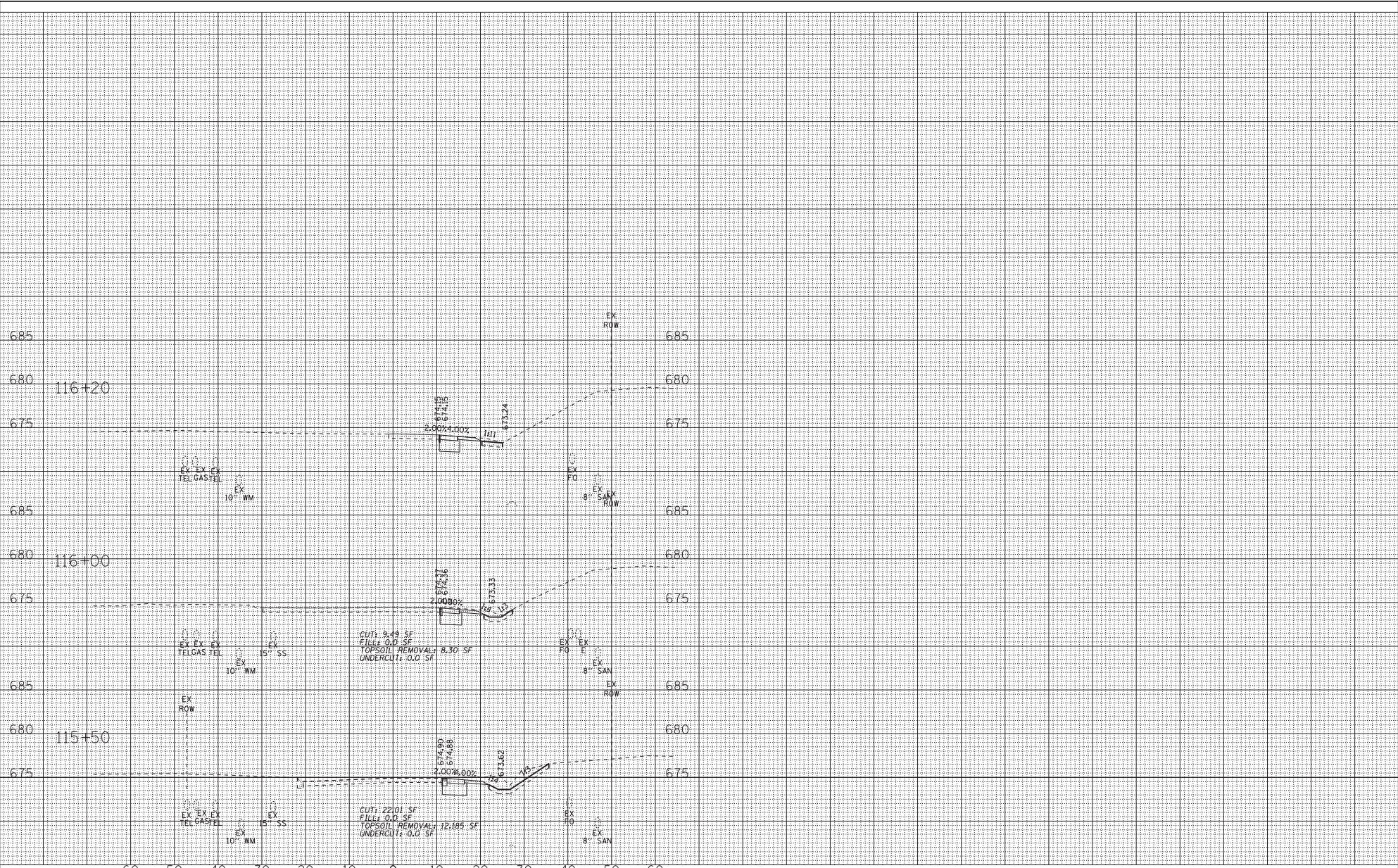
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FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61085	
FED. AID PROJECT				

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 FILE NO. 04-0026-01-WR



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SCALE: H ₁ 1"=10' V ₁ 1"=5' STA. 111+40 TO STA. 115+32				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 COUNTY OF COOK
 PROJECT: 04-00026-01-WR
 SHEET: 157 OF 161



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Consulting Engineers

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CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...806159SHT-PH2-XS-PULASKI.dgn

STATE OF ILLINOIS
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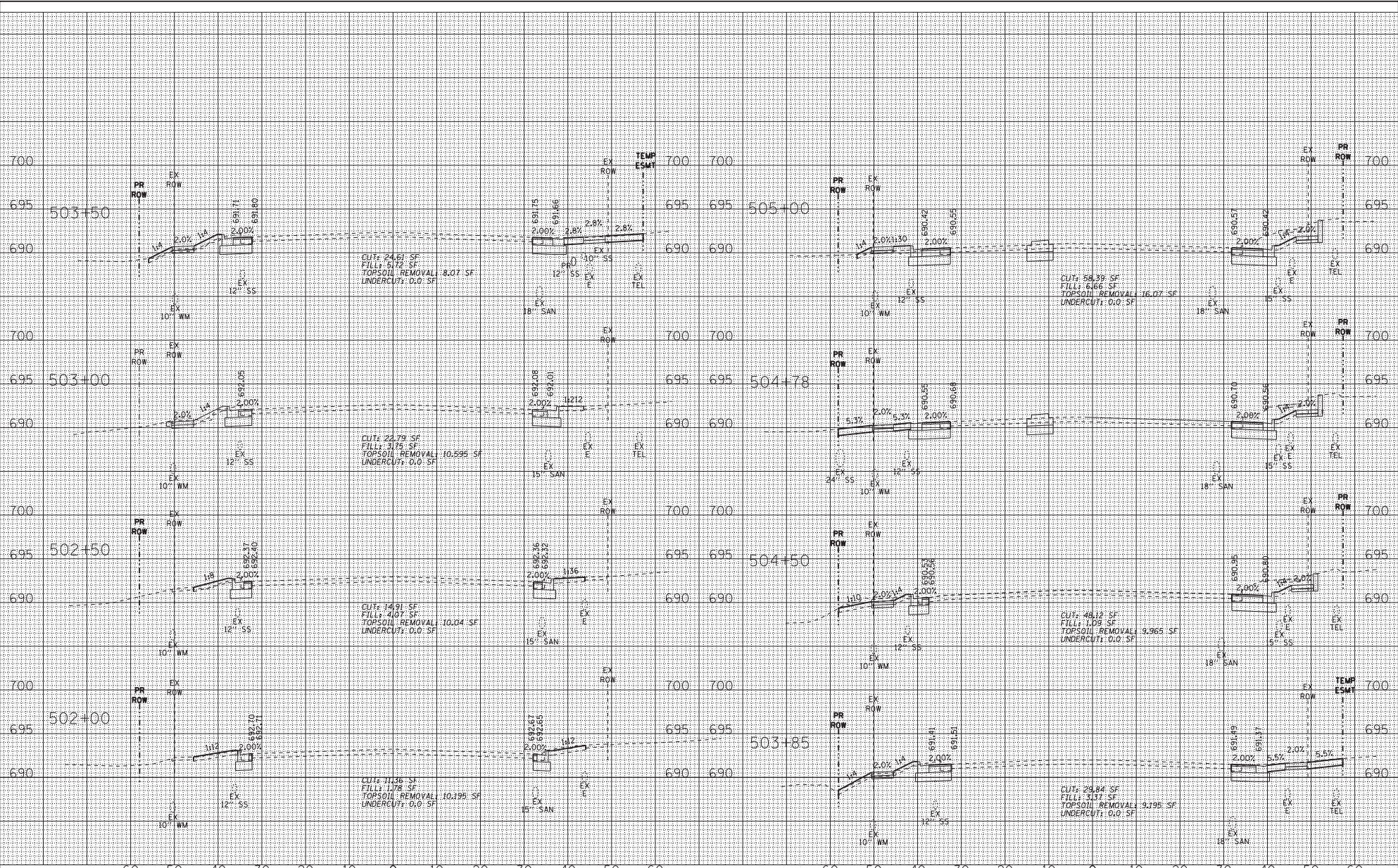
CROSS SECTIONS
PULASKI ROAD

SCALE: H₁ 1"=10' V₁ 1"=5'

STA. 115+50 TO STA. 116+20

P.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	157
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61085	

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 PROJECT NO. 04-00026-01-WR
 SHEET NO. 161 OF 158



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DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...061559SHT-PH2-XS-183RD.dgn

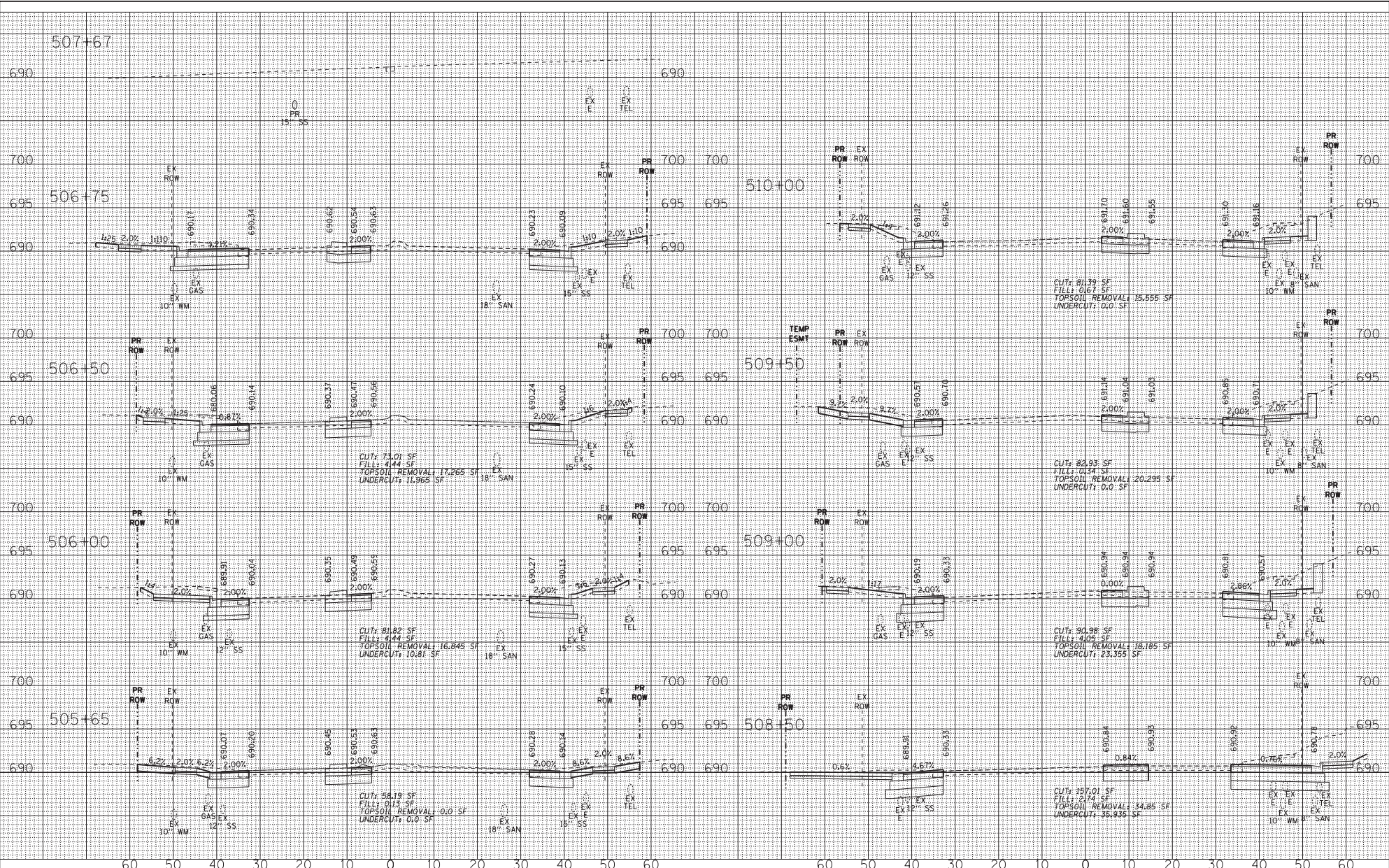
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
183RD STREET

SCALE: H₁ 1"=10' V₁ 1"=5'
STA. 502+00 TO STA. 505+00

F.P.D. RITE 3778	SECTION 04-00026-01-WR	COUNTY COOK	TOTAL SHEETS 161	SHEET NO. 158
CONTRACT NO. 61085			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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 PROJECT NO. 04-00026-01-WR
 SHEET NO. 161 OF 159



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CHECKED - DTH	REVISED -
DATE - 10-8-18	FILE ...8061559SH-Ph2-XS-183RD.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 183RD STREET

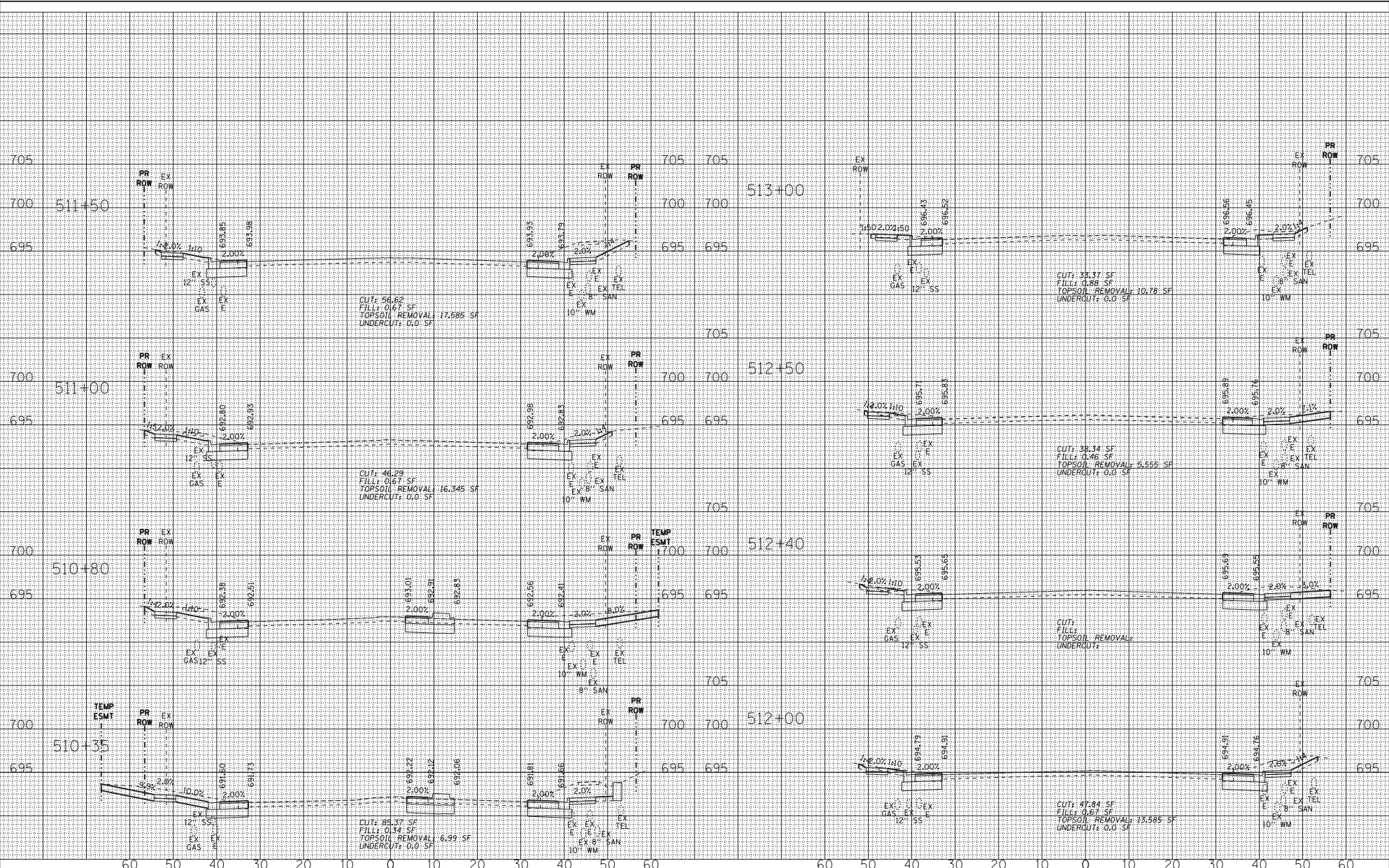
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STA. 505+65 TO STA. 510+00

F.P.D. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-00026-01-WR	COOK	161	159

CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

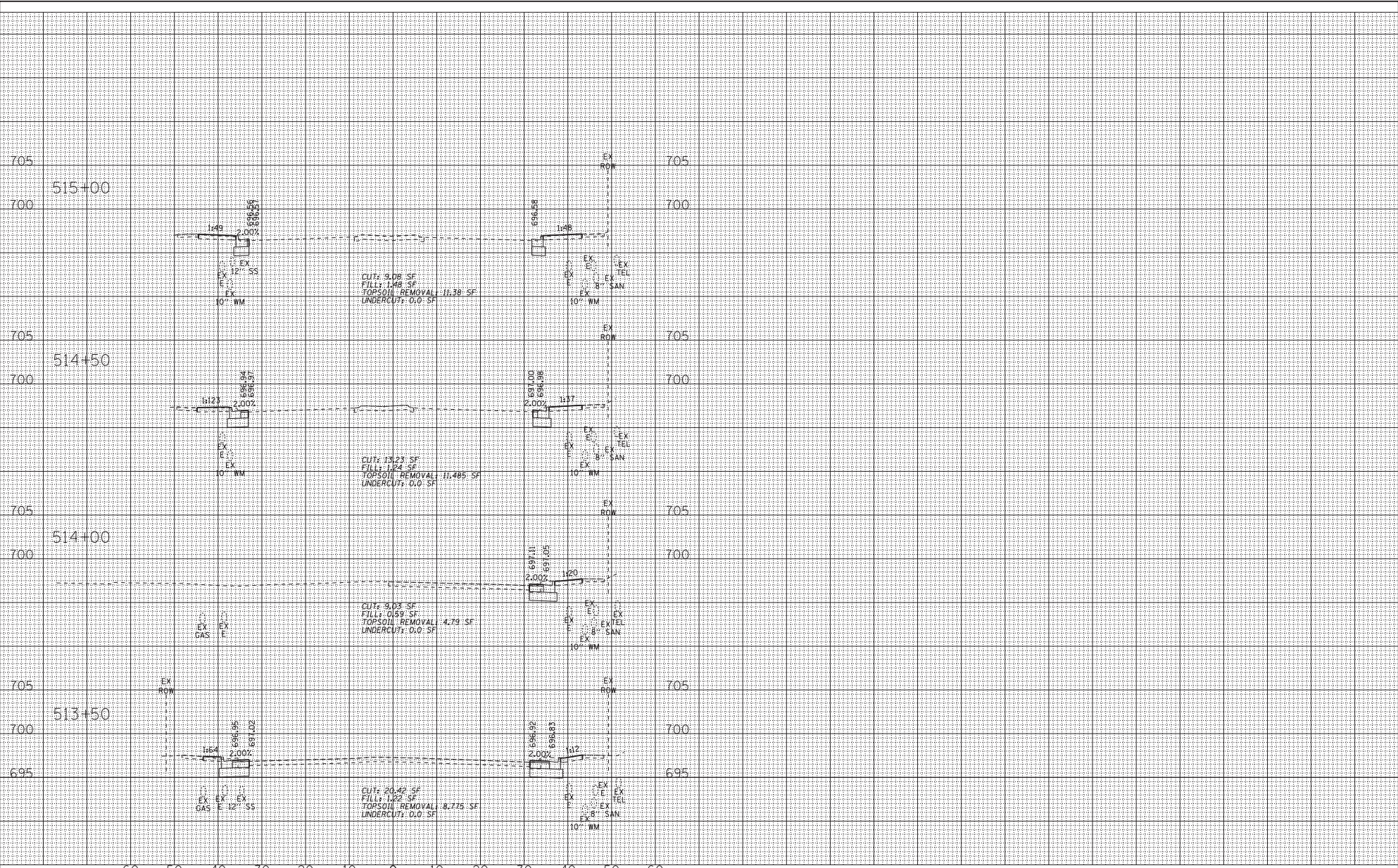
CROSS SECTIONS
 183RD STREET

SCALE: H₁ 1"=10' V₁ 1"=5'

STA. 510+35 TO STA. 513+00

F.P.D. RTEL	SECTION	COUNTY	TOTAL SHEET NO.
3778	04-00026-01-WR	COOK	161 160
			CONTRACT NO. 61085
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
183RD STREET

SCALE: H: 1"=10' V: 1"=5'

STA. 513+50 TO STA. 515+00

P.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3778	04-0026-01-WR	COOK	161	161
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				CONTRACT NO. 61085