

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE No. - 184-00121 - EXPIRES 4/30/2019
 5/21/2018 9:02:02 AM
 i:\CrystalLake\SCHAM\50615-Plum Grove Rd Ph II\CADD\50615-SHT-TS-Temp-Woodfield.dgn



DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Woodfield.dgn

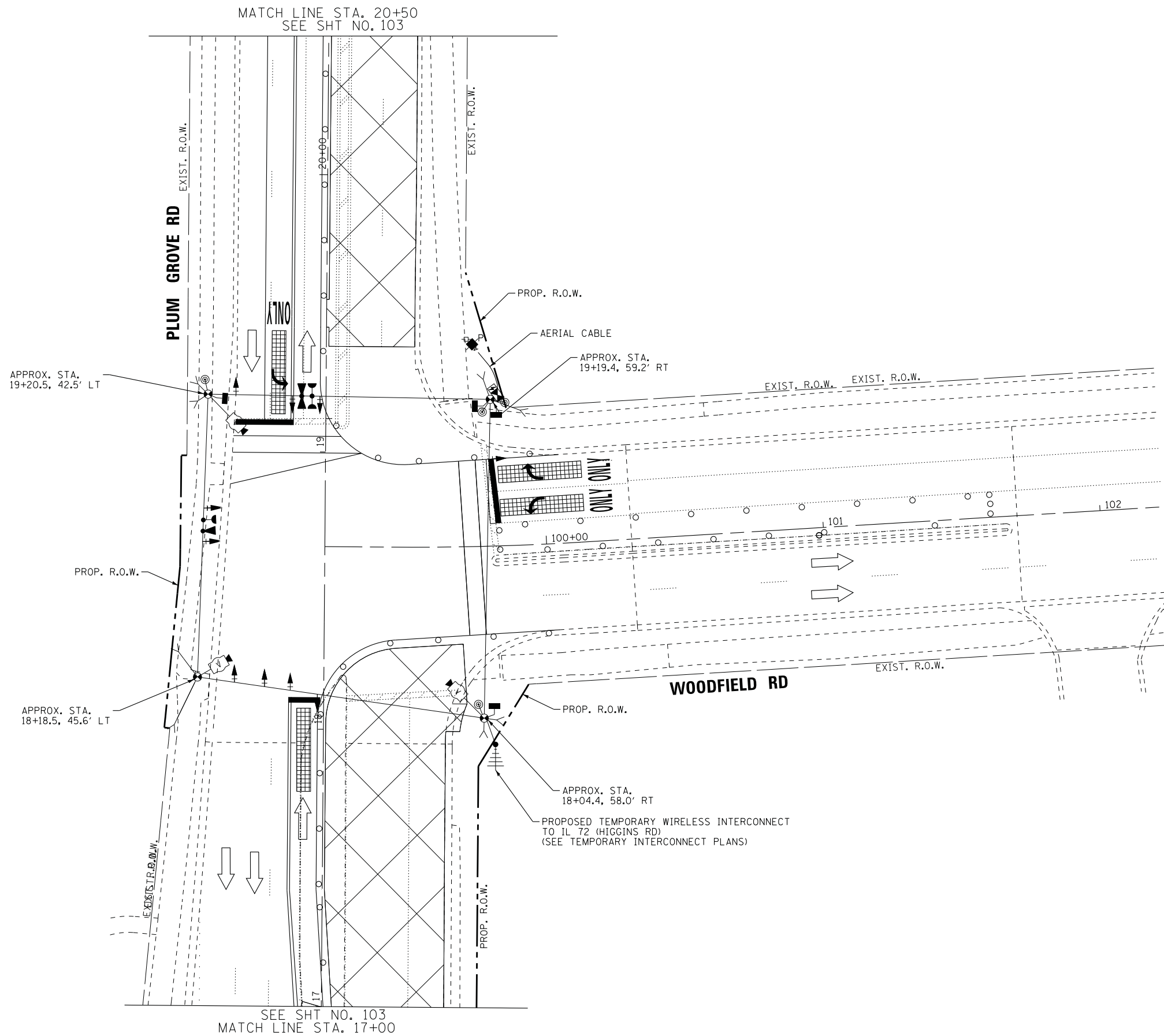
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PRE-STAGE AND STAGE 5
TEMPORARY TRAFFIC INSTALLATION PLAN AND
REMOVE EXISTING TRAFFIC EQUIPMENT PLAN (SHEET 2 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	101
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
 ECON 84



MATCH LINE STA. 20+50
SEE SHT NO. 103

SEE SHT NO. 103
MATCH LINE STA. 17+00

PLUM GROVE RD

WOODFIELD RD

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
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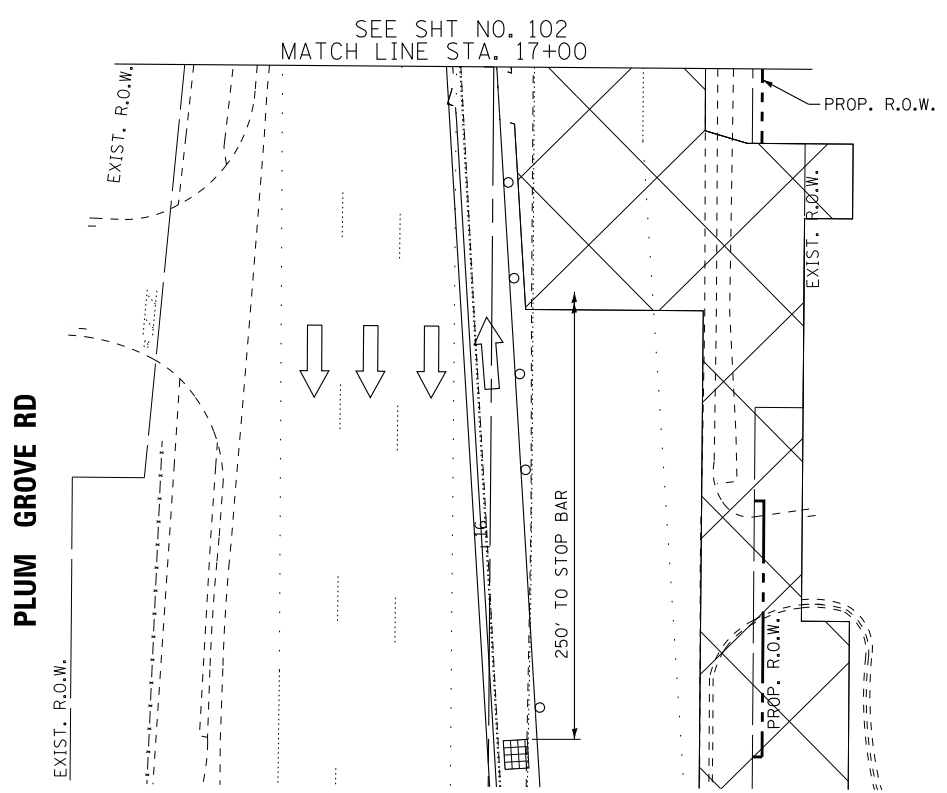
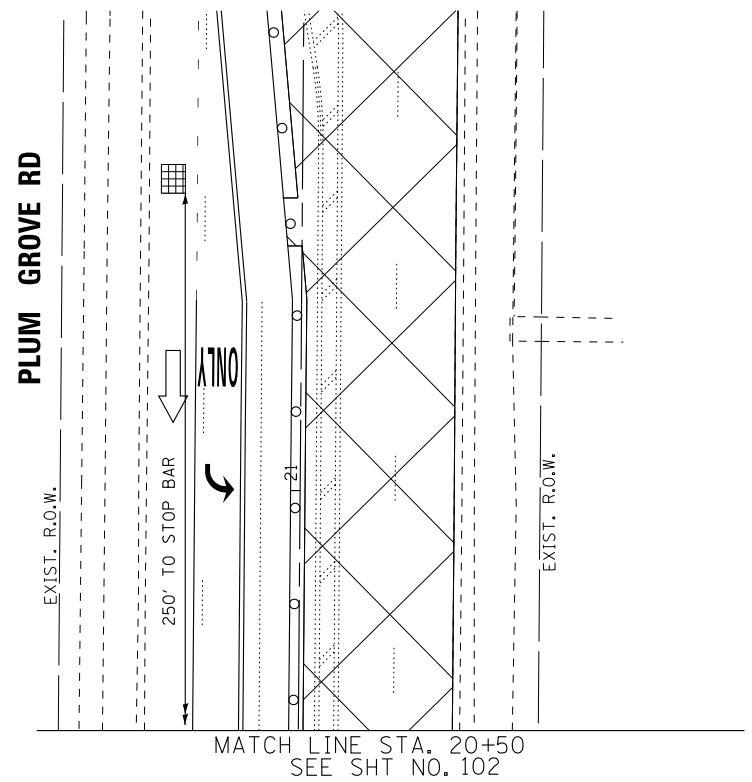
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 1 (SHEET 1 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	102
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 84



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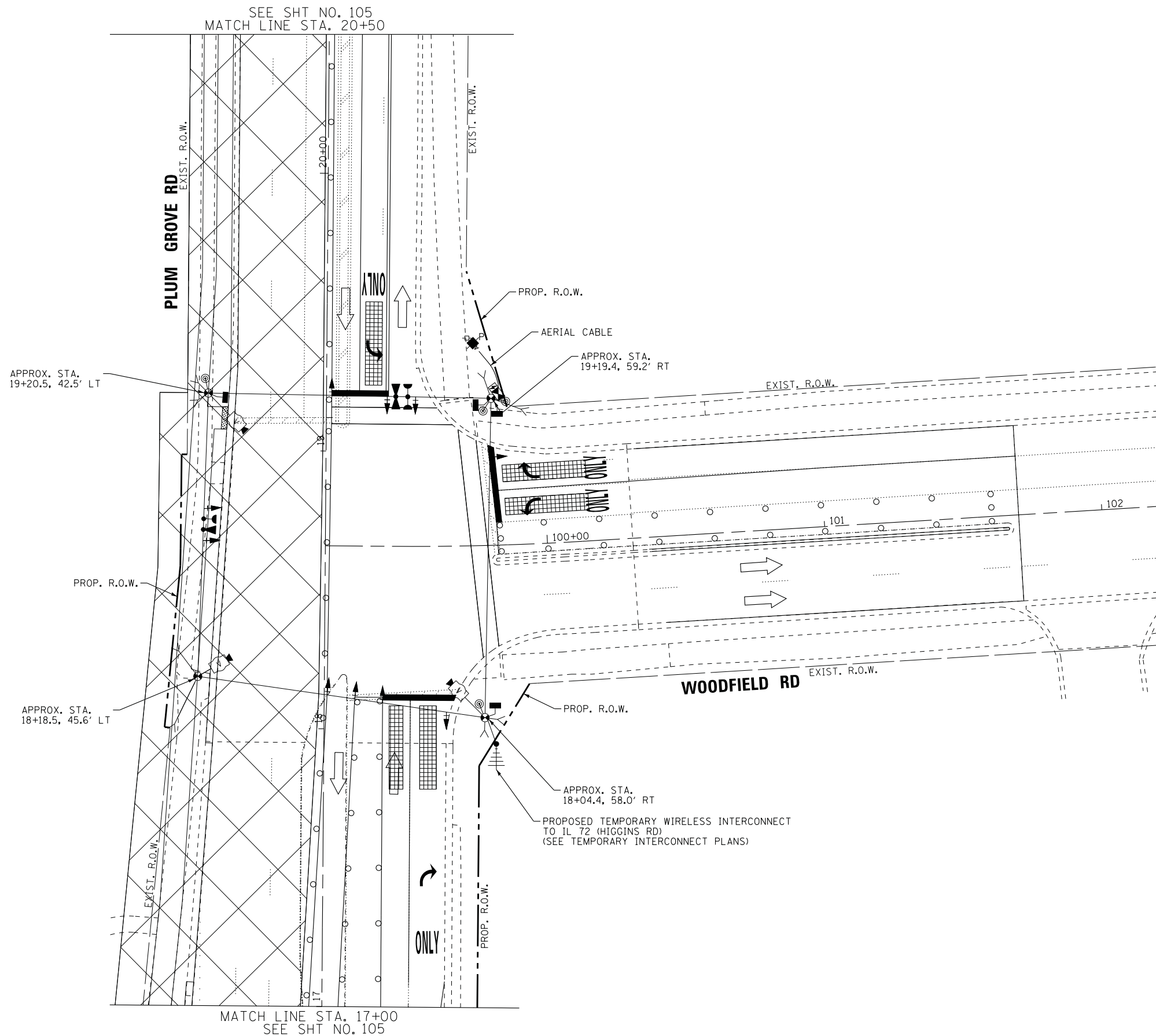
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
 STAGE 1 (SHEET 2 OF 2)
 PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	103
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
 ECON 84



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DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stage2-Woodfield.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 2 (SHEET 1 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	104
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 84

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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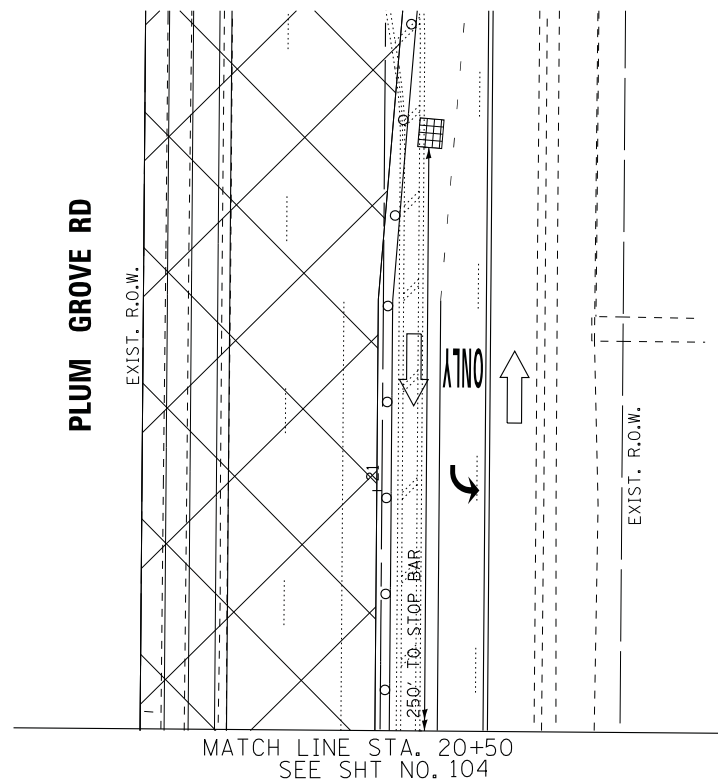
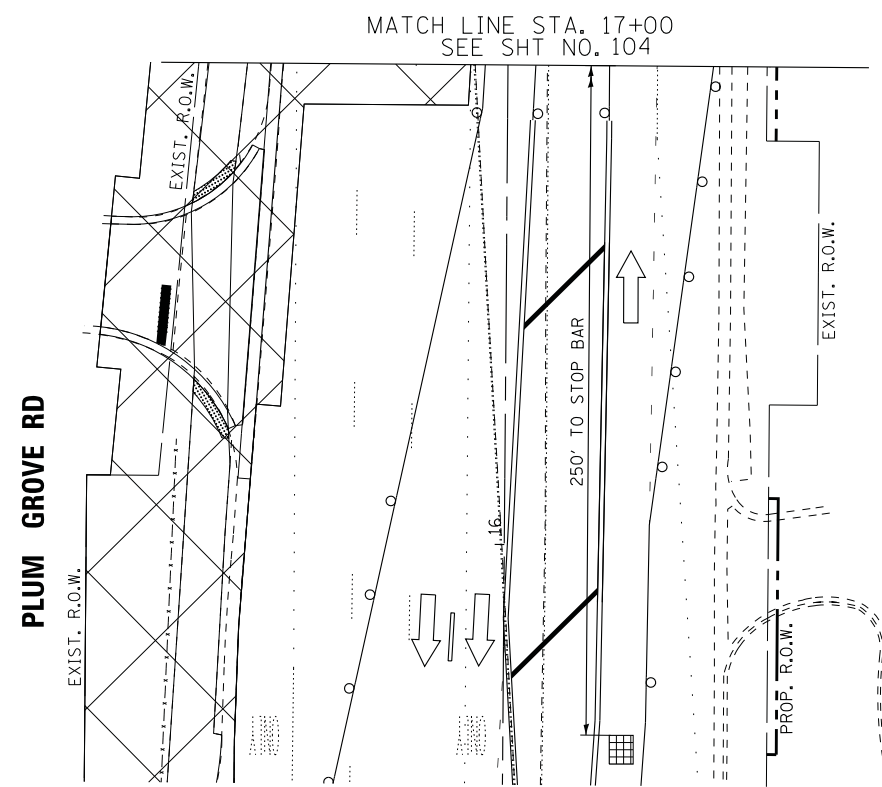
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

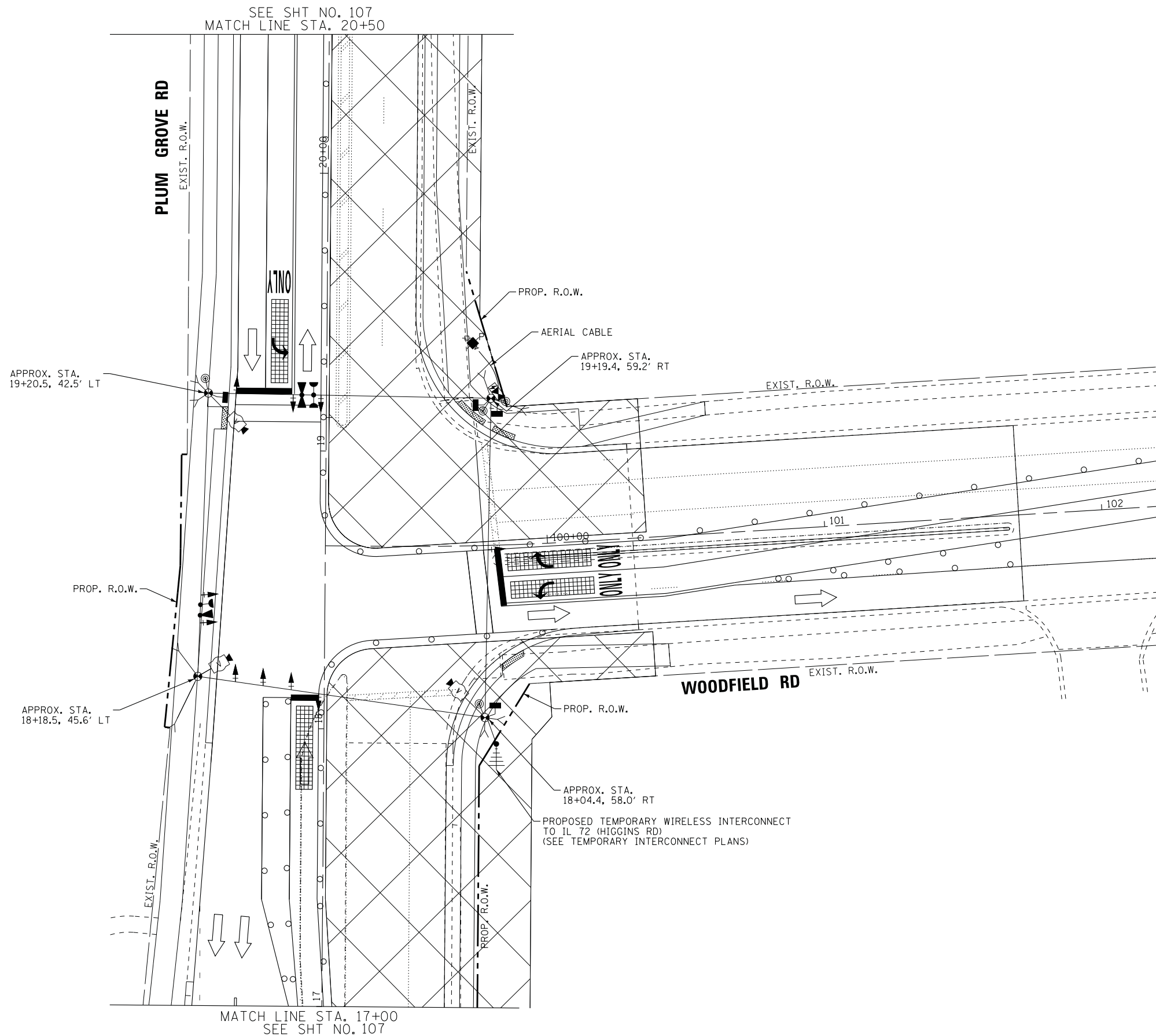
TEMPORARY TRAFFIC INSTALLATION PLAN
 STAGE 2 (SHEET 2 OF 2)
 PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	105
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
 ECON 84





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DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stage3a-Woodfield.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 3A (SHEET 1 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	106
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 84

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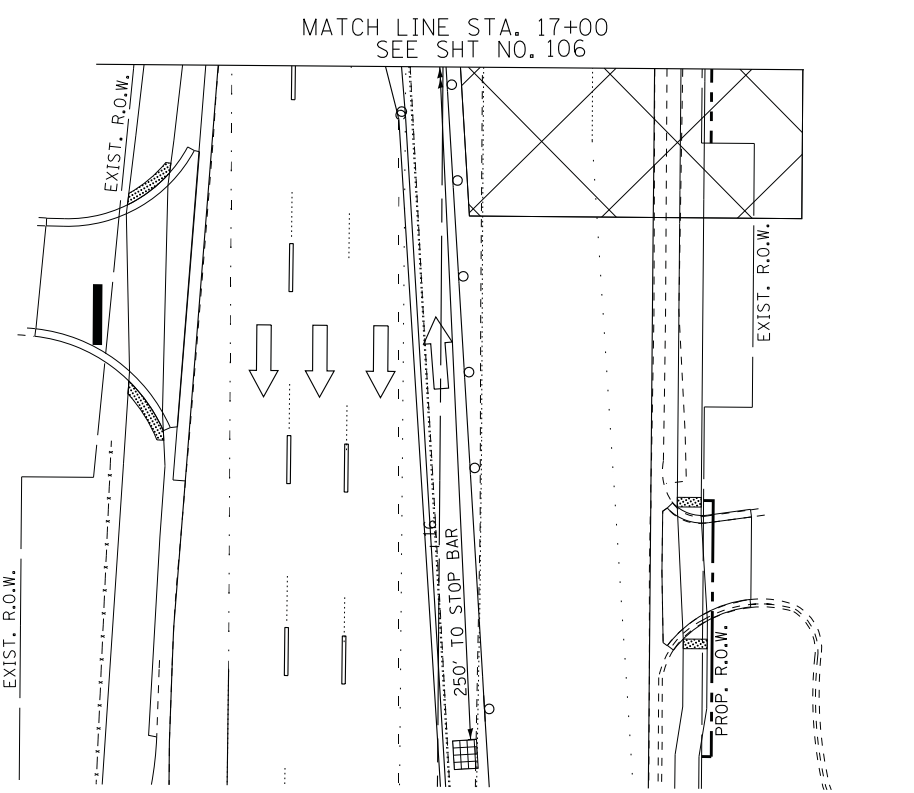
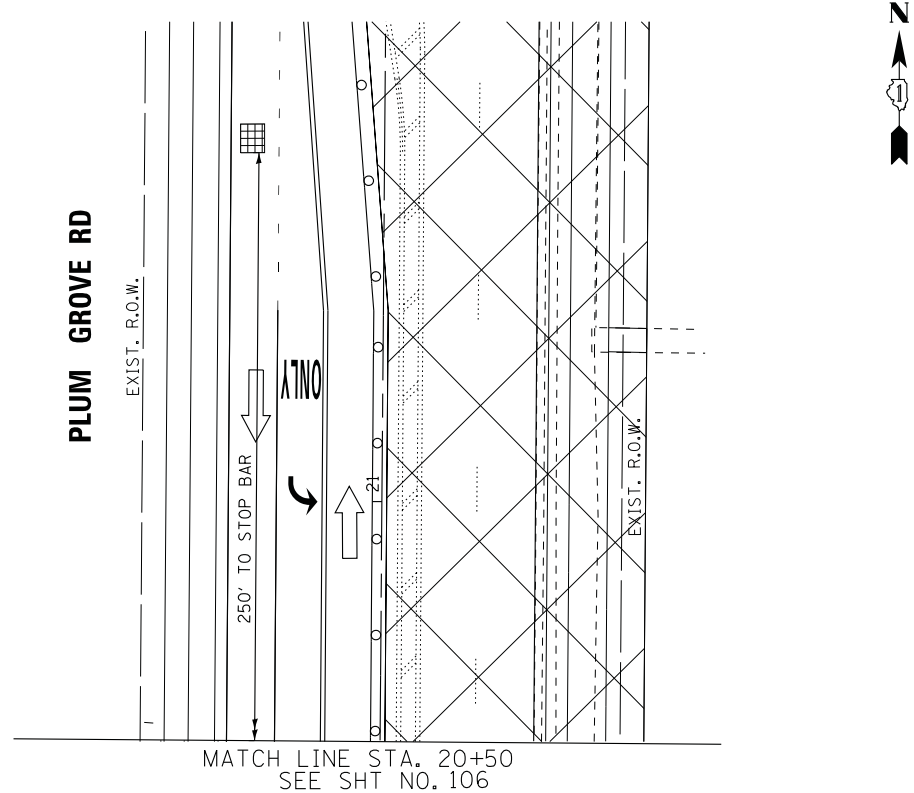
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

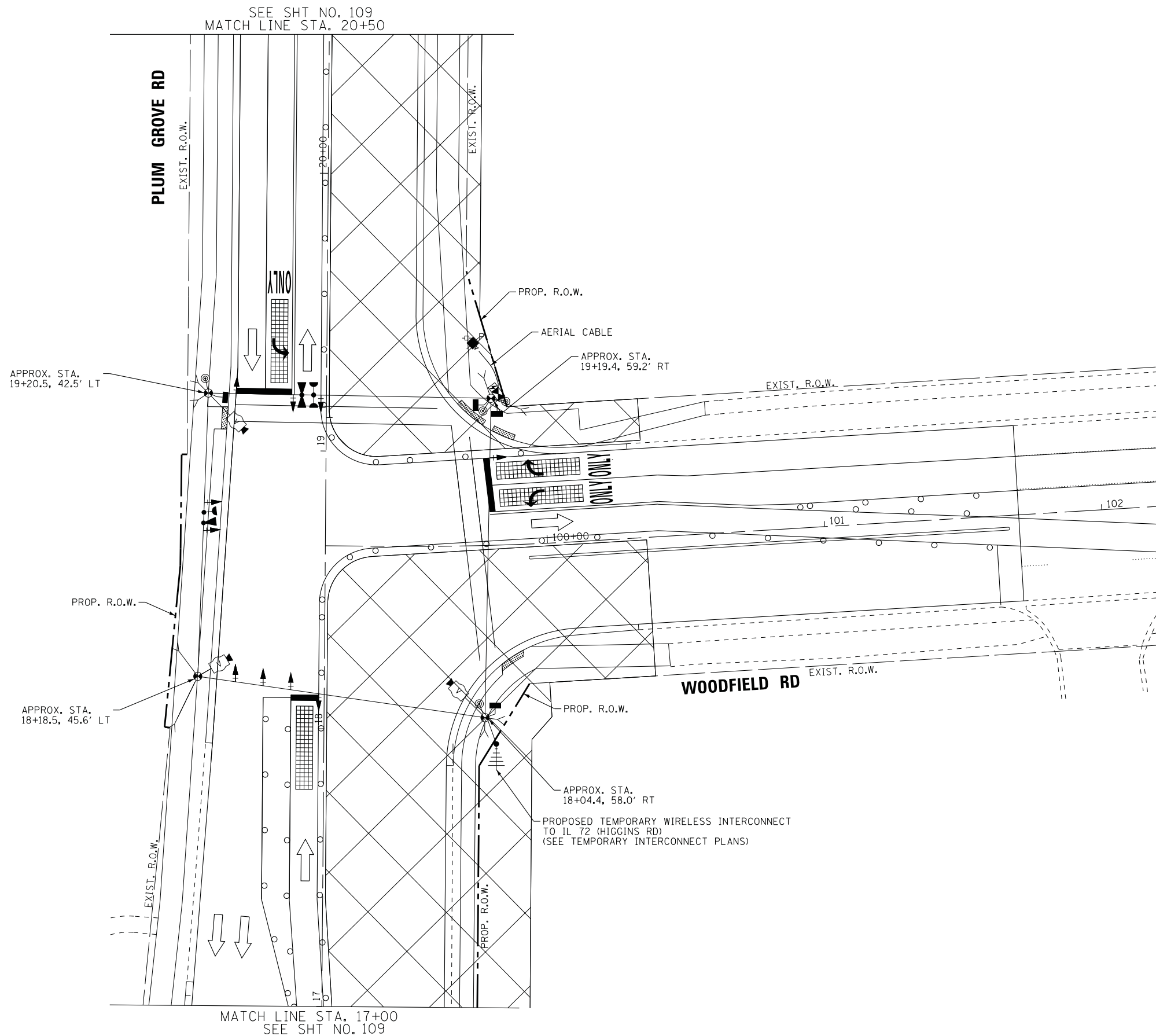
TEMPORARY TRAFFIC INSTALLATION PLAN
 STAGE 3A (SHEET 2 OF 2)
 PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	107
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
 ECON 84





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CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stage3b-Woodfield.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 3B (SHEET 1 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	108
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 84

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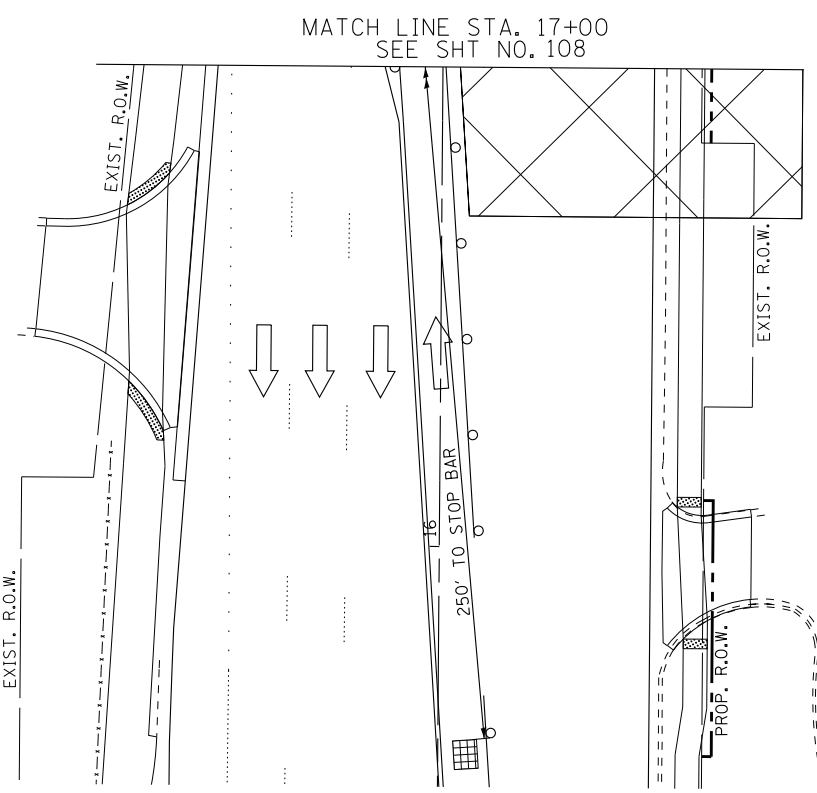
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC INSTALLATION PLAN
 STAGE 3B (SHEET 2 OF 2)
 PLUM GROVE RD AND WOODFIELD RD**

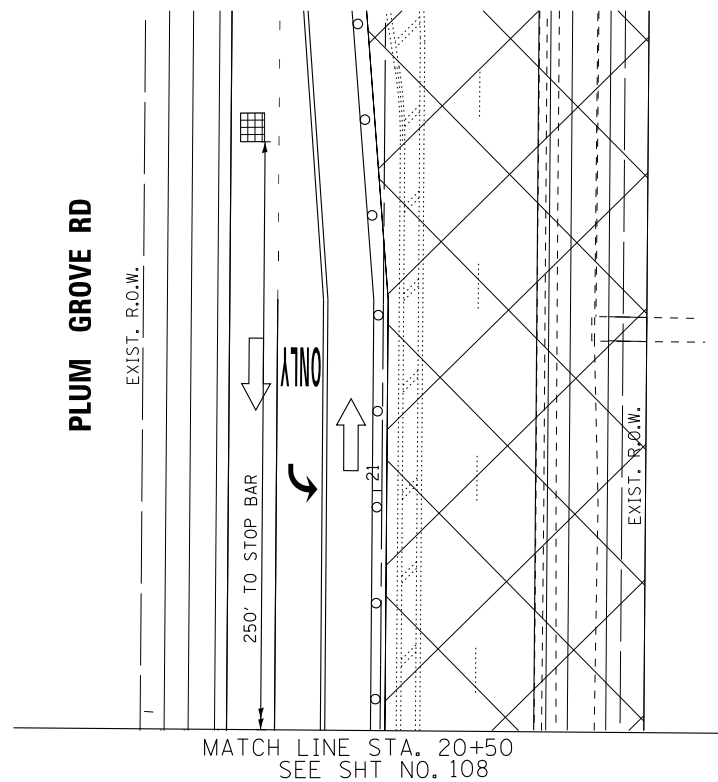
SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	109
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

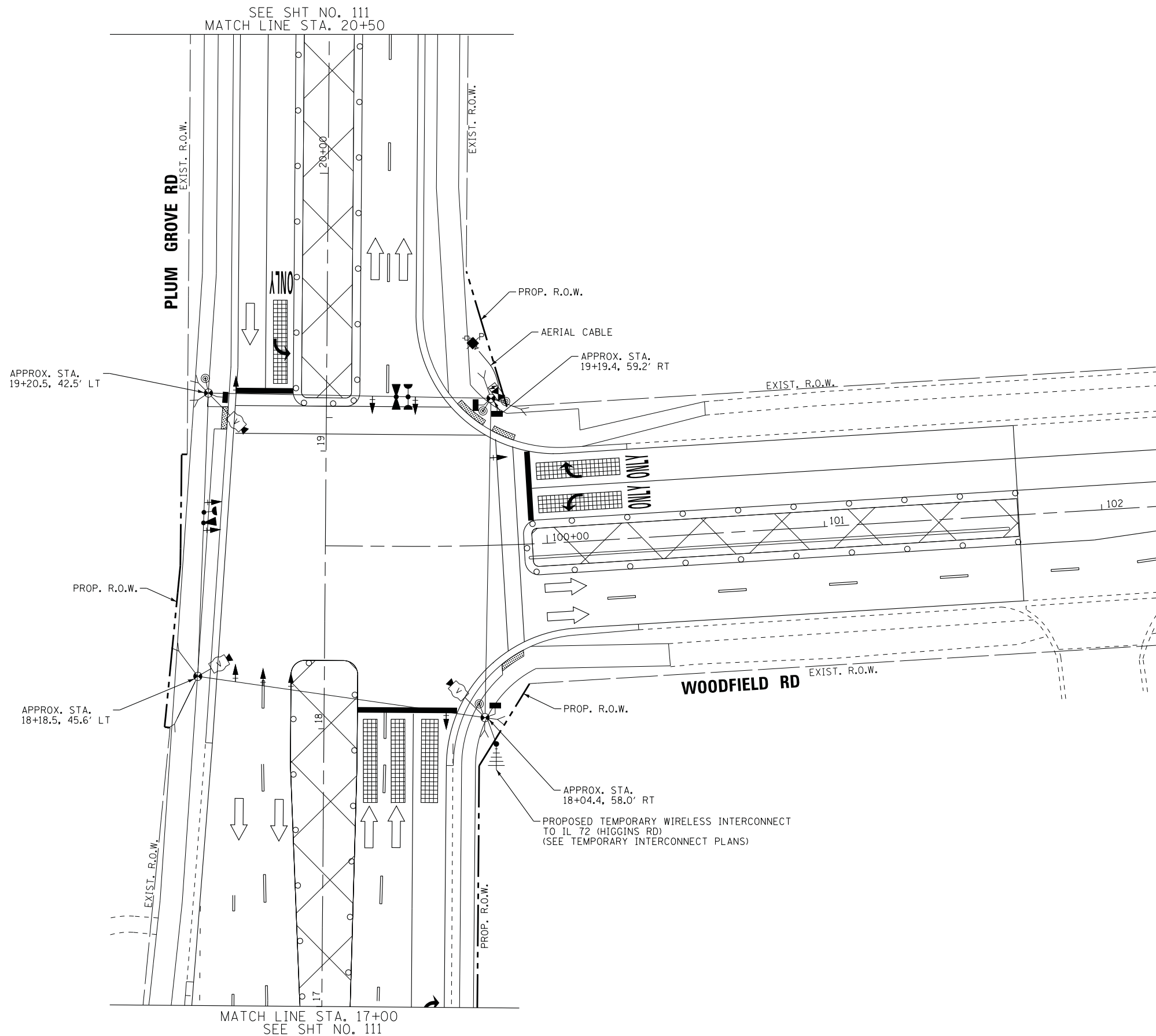
**TS XXXX
 ECON 84**



MATCH LINE STA. 17+00
 SEE SHT NO. 108



MATCH LINE STA. 20+50
 SEE SHT NO. 108



SEE SHT NO. 111
MATCH LINE STA. 20+50

PLUM GROVE RD
EXIST. R.O.W.

WOODFIELD RD
EXIST. R.O.W.

MATCH LINE STA. 17+00
SEE SHT NO. 111

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CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stage4-Woodfield.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 4 (SHEET 1 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	110
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

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ECON 84

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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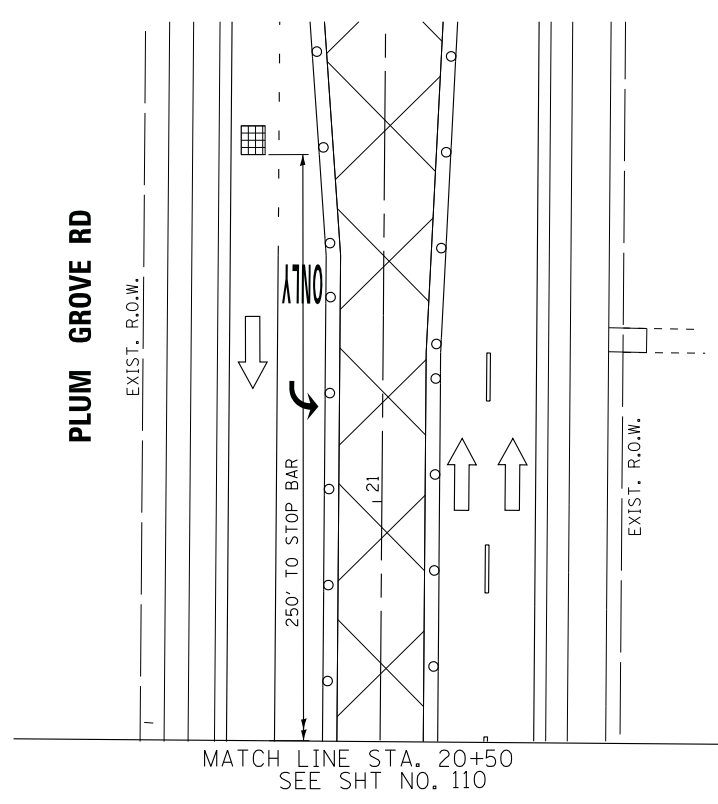
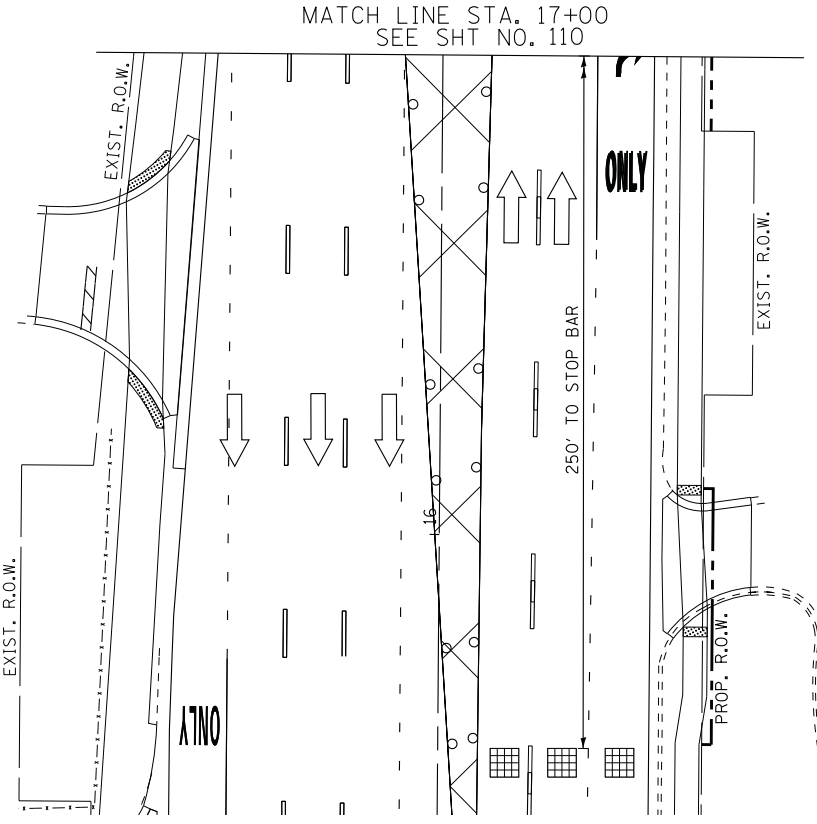
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
 STAGE 4 (SHEET 2 OF 2)
 PLUM GROVE RD AND WOODFIELD RD

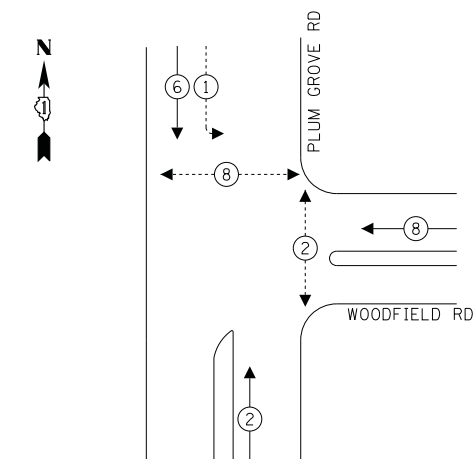
SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	111
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS xxxx
 ECON 84



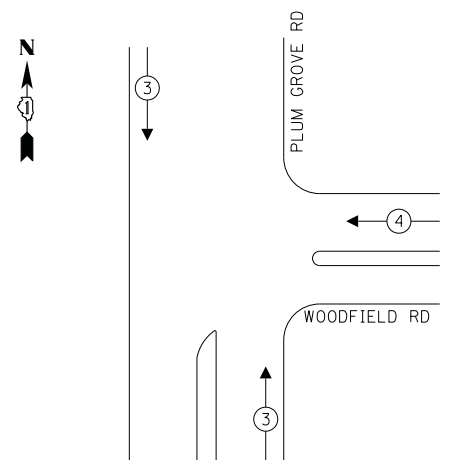
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← (●*) PROTECTED PHASE
- ← (●*)... PROTECTED/PERMITTED PHASE
- ← (●*) → PEDESTRIAN PHASE
- ← (●*) OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



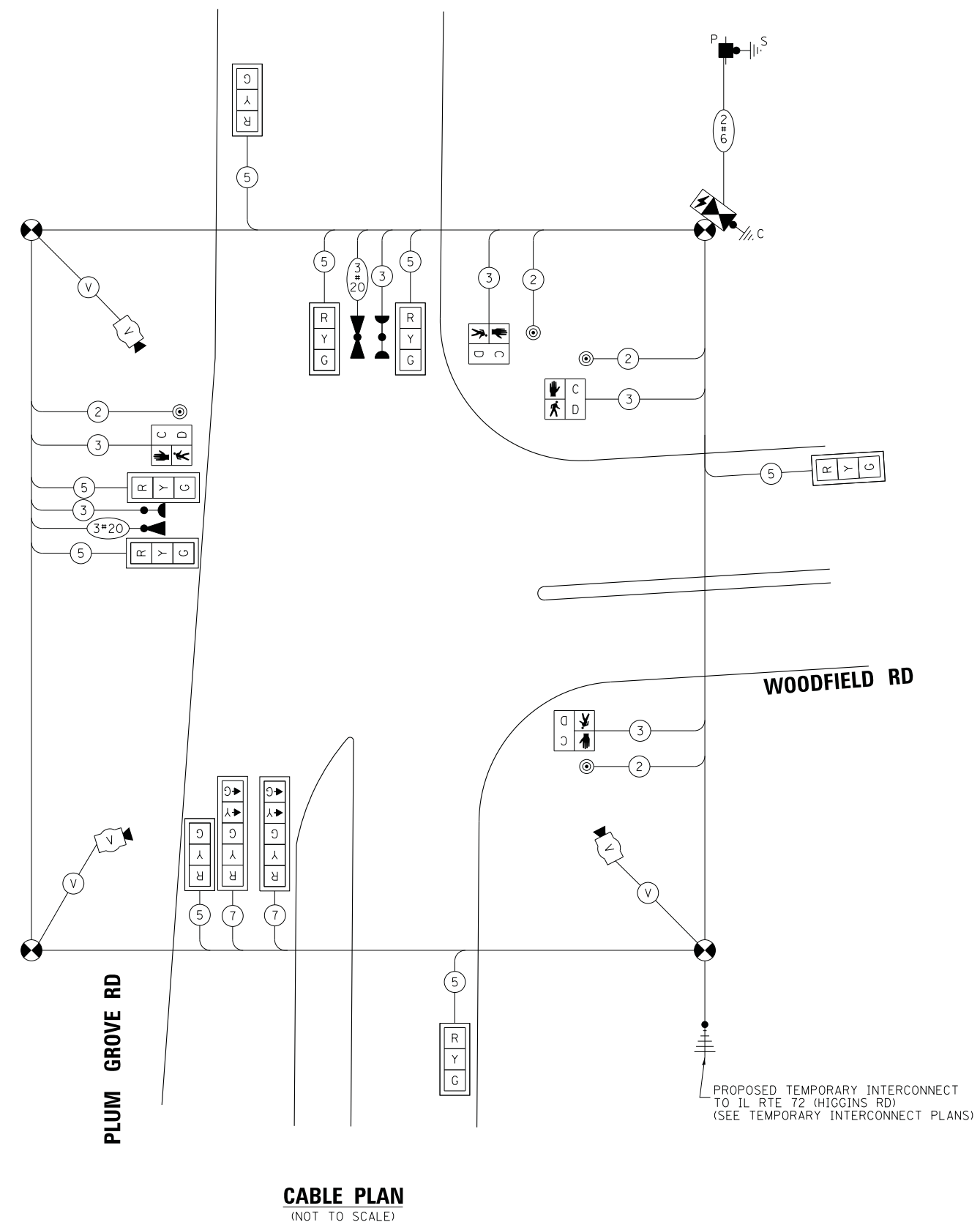
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	6	20	100	120.0
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 =				506.1

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, ILLINOIS 60143

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



CABLE PLAN
(NOT TO SCALE)

PRE-STAGE, STAGES 1, 2, 3A, 3B, 4, AND 5

**TS XXXX
ECON 84**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
PLUM GROVE RD AND WOODFIELD RD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	112
				CONTRACT NO. 61E29

SCALE: NONE SHEET OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM LICENSE NO. 184-00121 - EXPIRES 4/30/2019 5/21/2018 9:02:17 AM
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BAXTER & WOODMAN
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
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DATE - 10-9-17	FILE - 150615-SHT-TS-TEMP-CABLE-Woodfield.dgn

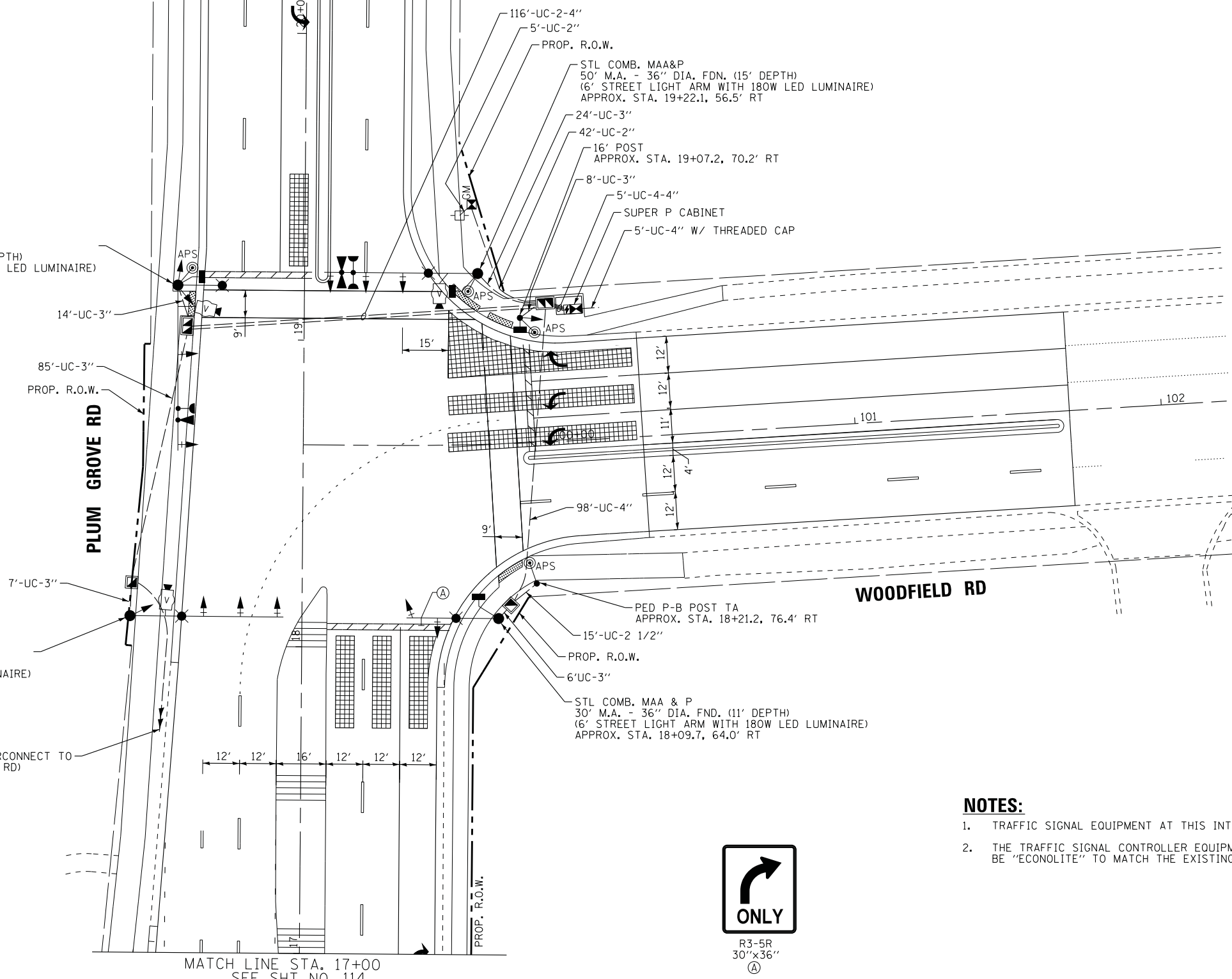


SEE SHT NO. 114
MATCH LINE STA. 20+50

STL COMB MAA & P
54' M.A. - 36" DIA. FDN. (15' DEPTH)
6' STREET LIGHT ARM WITH 180W LED LUMINAIRE)
APPROX. STA. 19+17.6, 41.2' LT

STL COMB. MAA & P
50' M.A. - 36" DIA. FND. (15' DEPTH)
(6' STREET LIGHT ARM WITH 180W LED LUMINAIRE)
APPROX. STA. 18+09.7, 55.9' LT

PROPOSED INTERCONNECT TO
IL. 72 (HIGGINS RD)



MATCH LINE STA. 17+00
SEE SHT NO. 114



R3-5R
30"x36"
(A)

NOTES:

1. TRAFFIC SIGNAL EQUIPMENT AT THIS INTERSECTION SHALL BE PAINTED BLACK.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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DATE - 10-9-17	FILE - 150615-SHT-TS-Woodfield.dgn

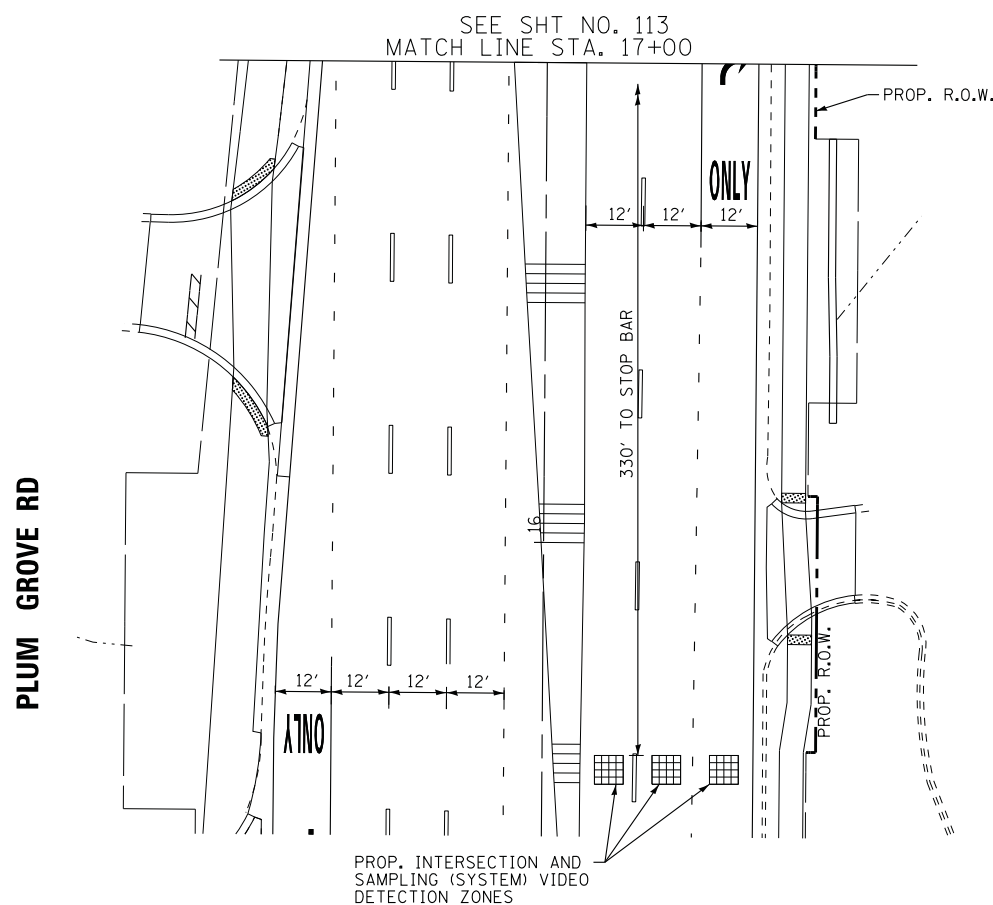
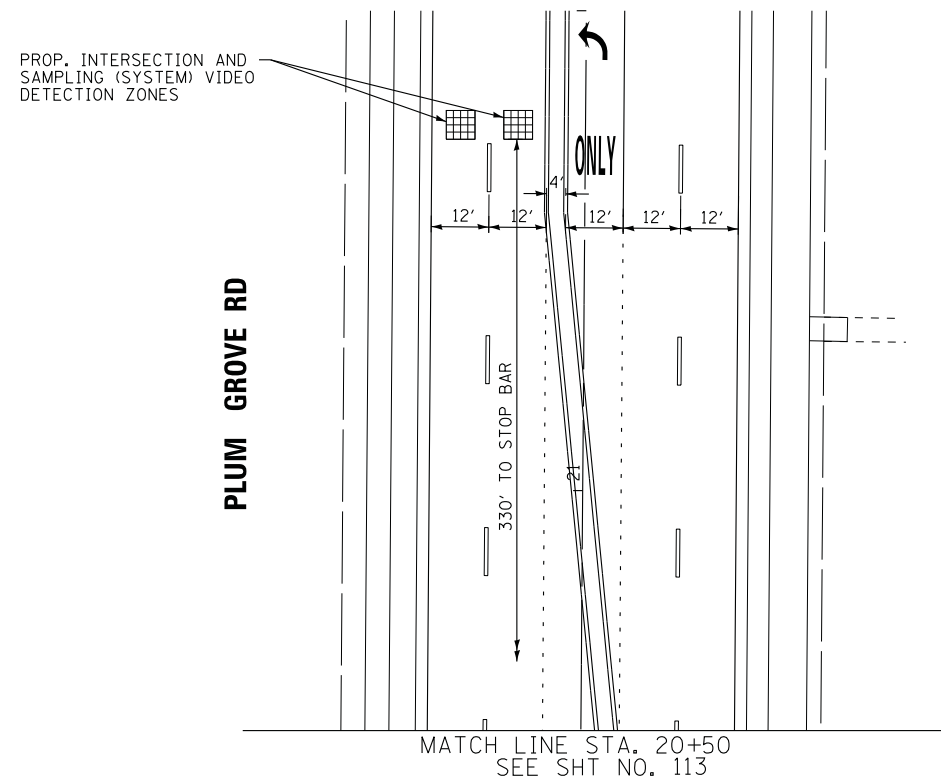
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	113
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 84



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

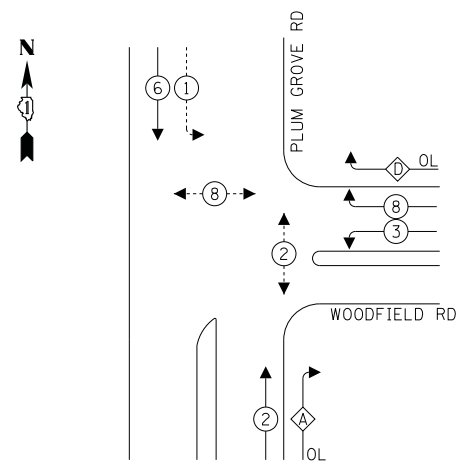
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
PLUM GROVE RD AND WOODFIELD RD

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	114
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 84

PROPOSED CONTROLLER SEQUENCE



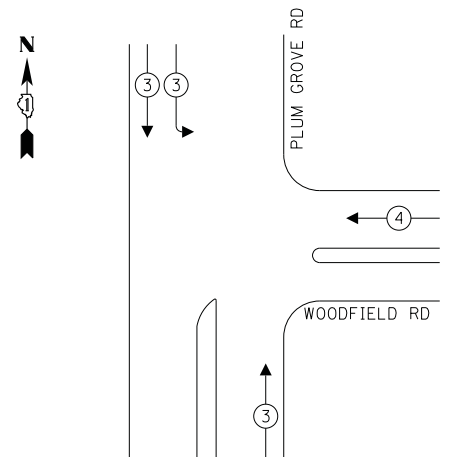
LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ ··· ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ← ⊛ ⊛ → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
D	8	1

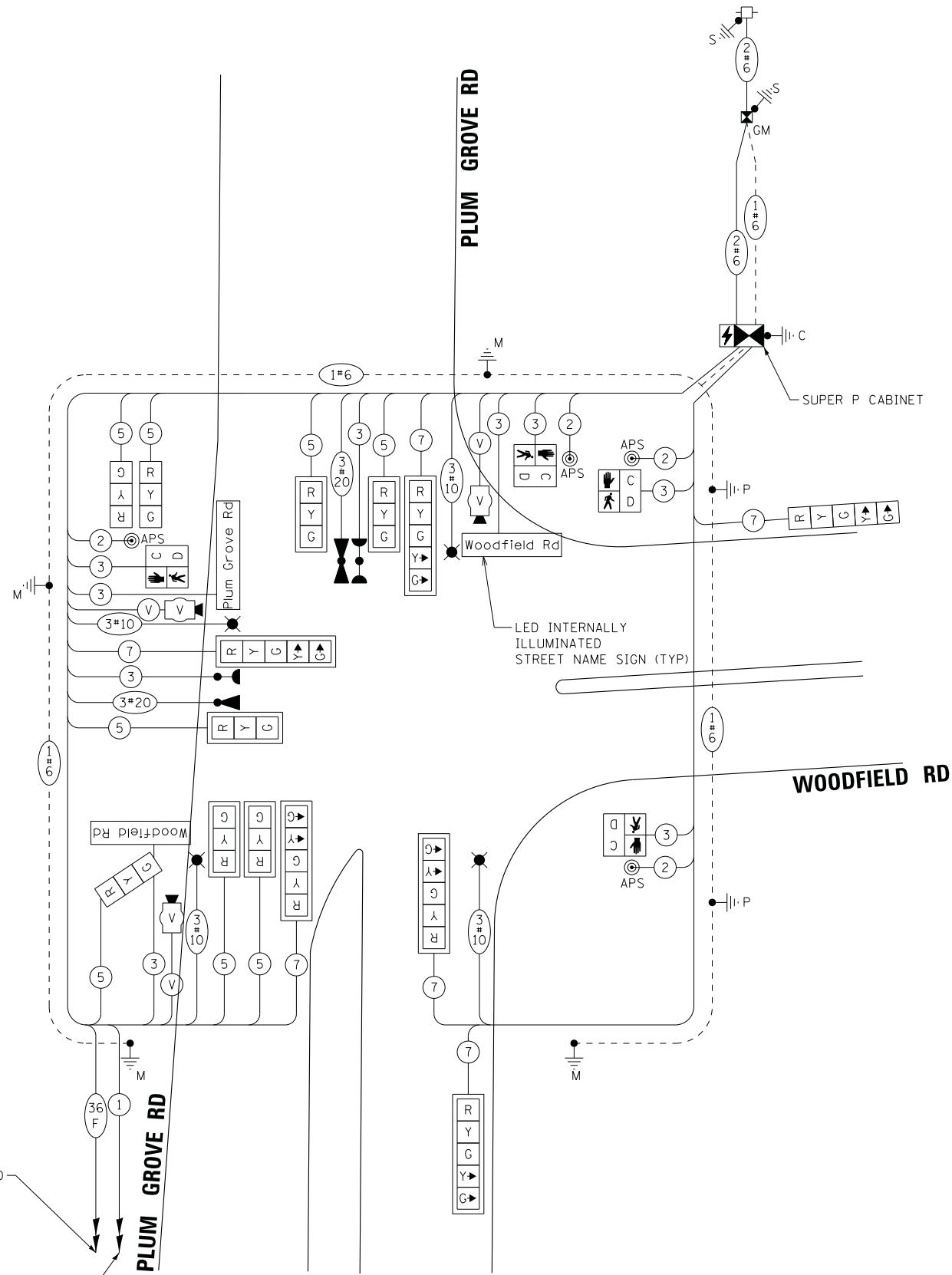
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	4	20	100	80.0
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	3	120	50	180.0
LUMINAIRE	4	140	50	280.0
TOTAL =				993.6

ENERGY COSTS TO:
 VILLAGE OF SCHAUMBURG
 101 SCHAUMBURG COURT
 SCHAUMBURG, ILLINOIS 60143
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____



PROP. INTERCONNECT TO IL 72 (HIGGINS RD)

PROP. TRACER CABLE

CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE PLUM GROVE RD AND WOODFIELD RD

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	115
CONTRACT NO. 61E29				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

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BAXTER & WOODMAN
 Consulting Engineers

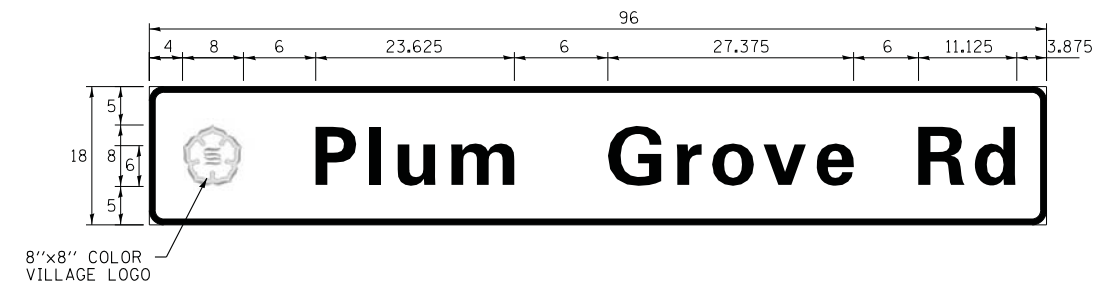
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DRAWN - UKB	REVISED -
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TS XXXX
 ECON 84

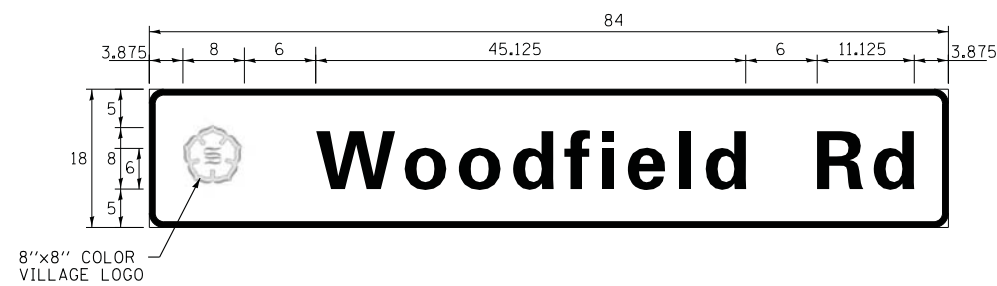
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SIGN PANEL – TYPE 1 OR TYPE 2

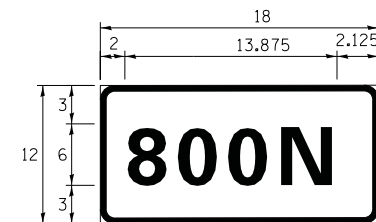
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	1.5	1	ZZ	2

NOTE: ATTACH BLOCK NUMBER SIGNS ON THE MAST ARM POSTS IN THE NE AND SW CORNERS OF THE INTERSECTION.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	144
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	355
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	427
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 3C	FOOT	1,359
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C	FOOT	1,715
ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 7C	FOOT	1,050
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2 C	FOOT	89
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.6 1C	FOOT	503
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2
STEEL COMBINATIN MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,122
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	350
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - I50615-SHT-TS-CABLE-Woodfield.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

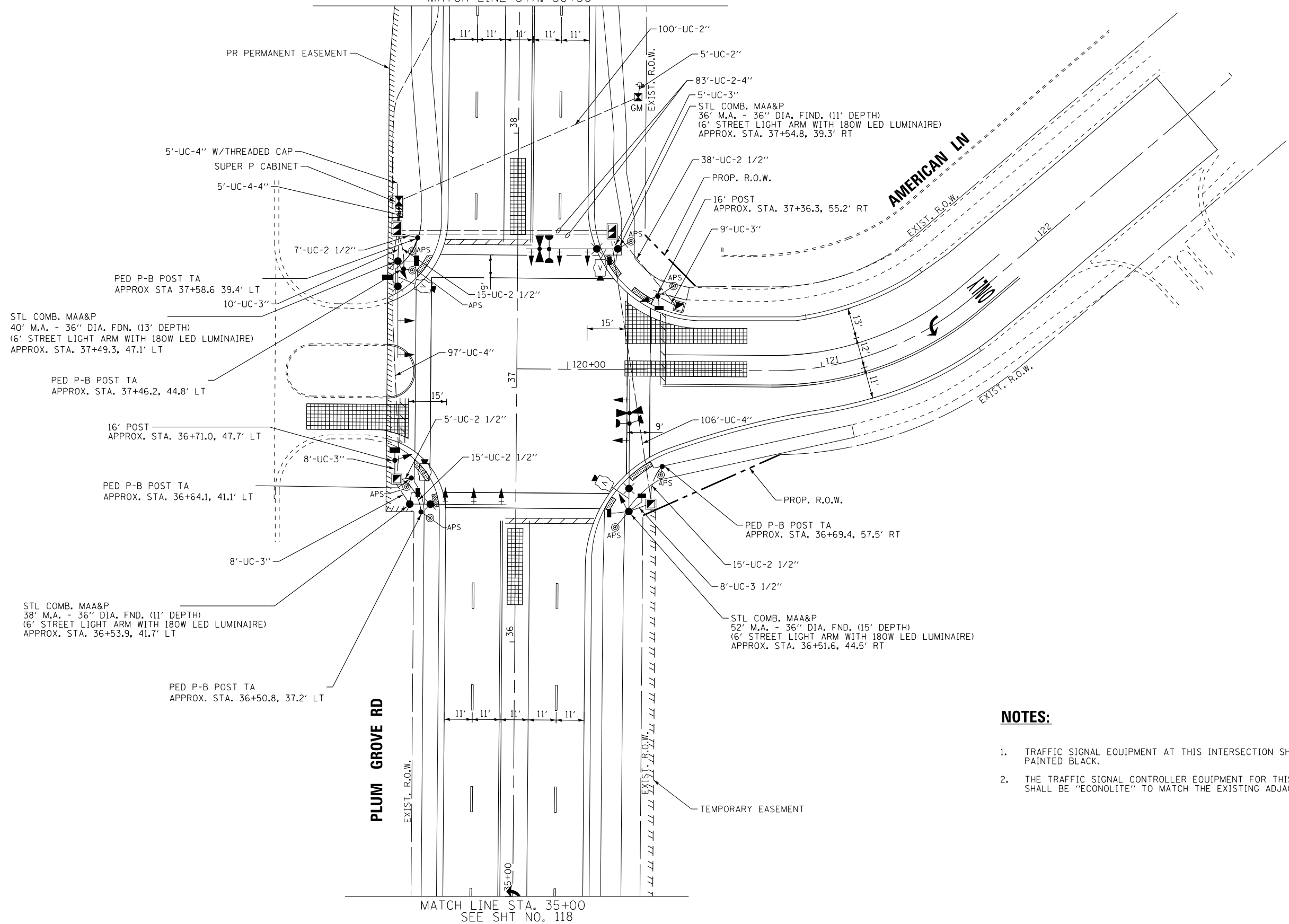
MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
PLUM GROVE RD AND WOODFIELD RD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	116
SCALE: NONE			CONTRACT NO. 61E29	
SHEET OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16	

TS XXXX
ECON 84



SEE SHT NO. 118
MATCH LINE STA. 38+50



NOTES:

1. TRAFFIC SIGNAL EQUIPMENT AT THIS INTERSECTION SHALL BE PAINTED BLACK.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

MATCH LINE STA. 35+00
SEE SHT NO. 118

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DESIGNED - RWL	REVISED - 4-20-18
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-AmericanLn.dgn

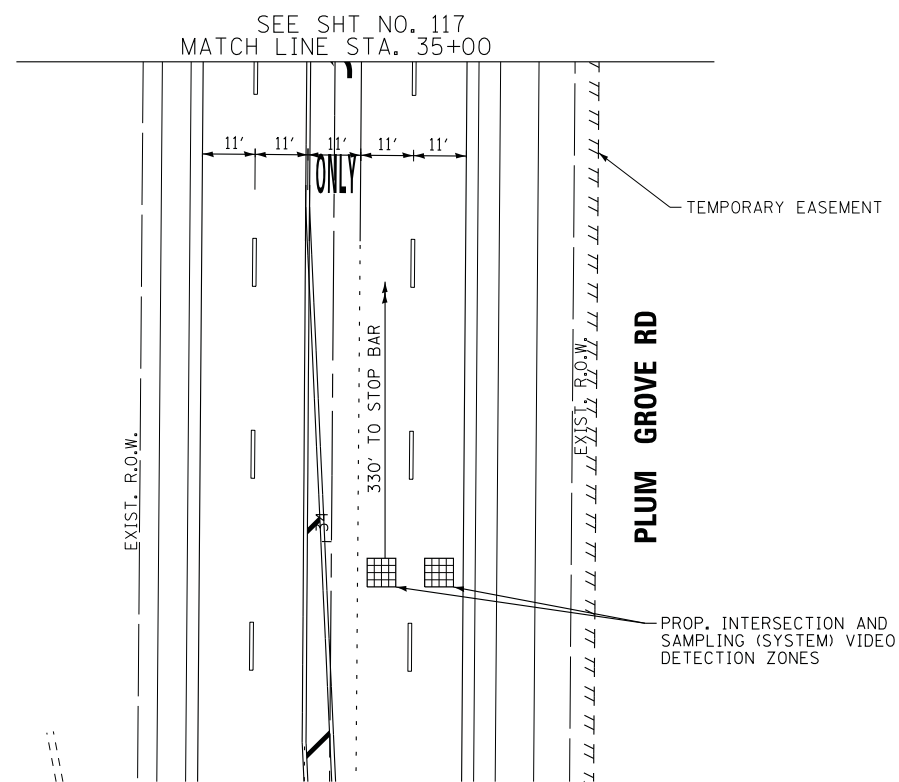
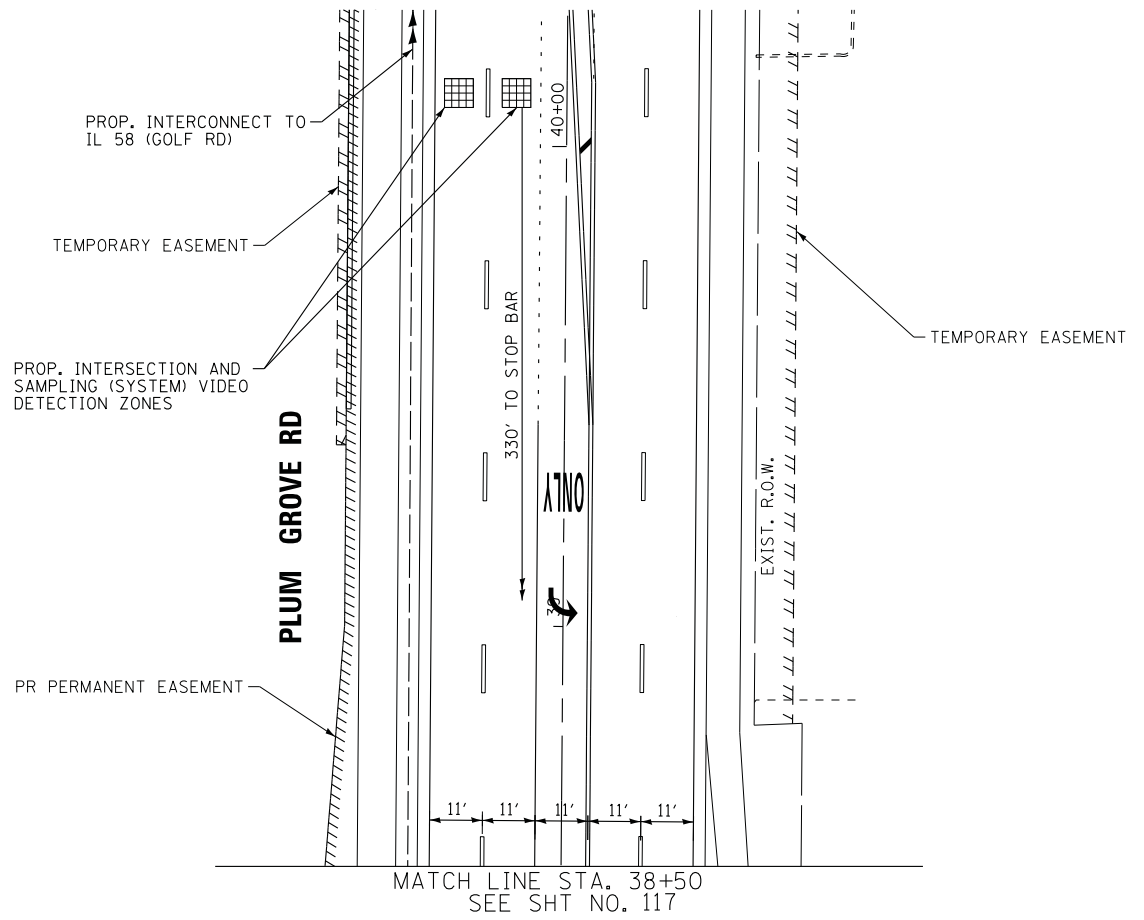
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 1 OF 2)
PLUM GROVE RD AND AMERICAN LN

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	117
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 78



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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	DRAWN - UKB	REVISED -
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	DATE - 10-9-17	FILE - 150615-SHT-TS-AmericanLn.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

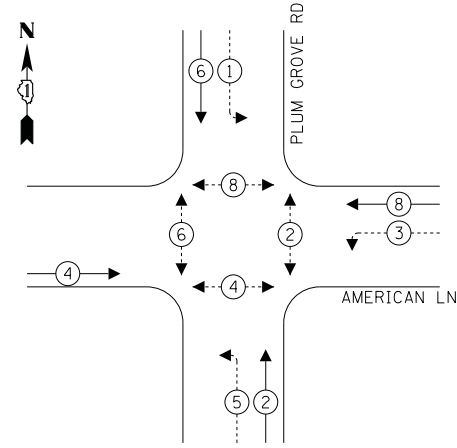
TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 2)
PLUM GROVE RD AND AMERICAN LN

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	118
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 78

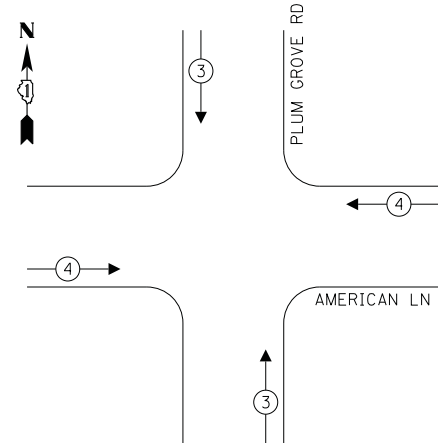
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← (⊛) ··· PROTECTED/PERMITTED PHASE
- ← (⊛) ··· PEDESTRIAN PHASE
- ← (⊛) OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



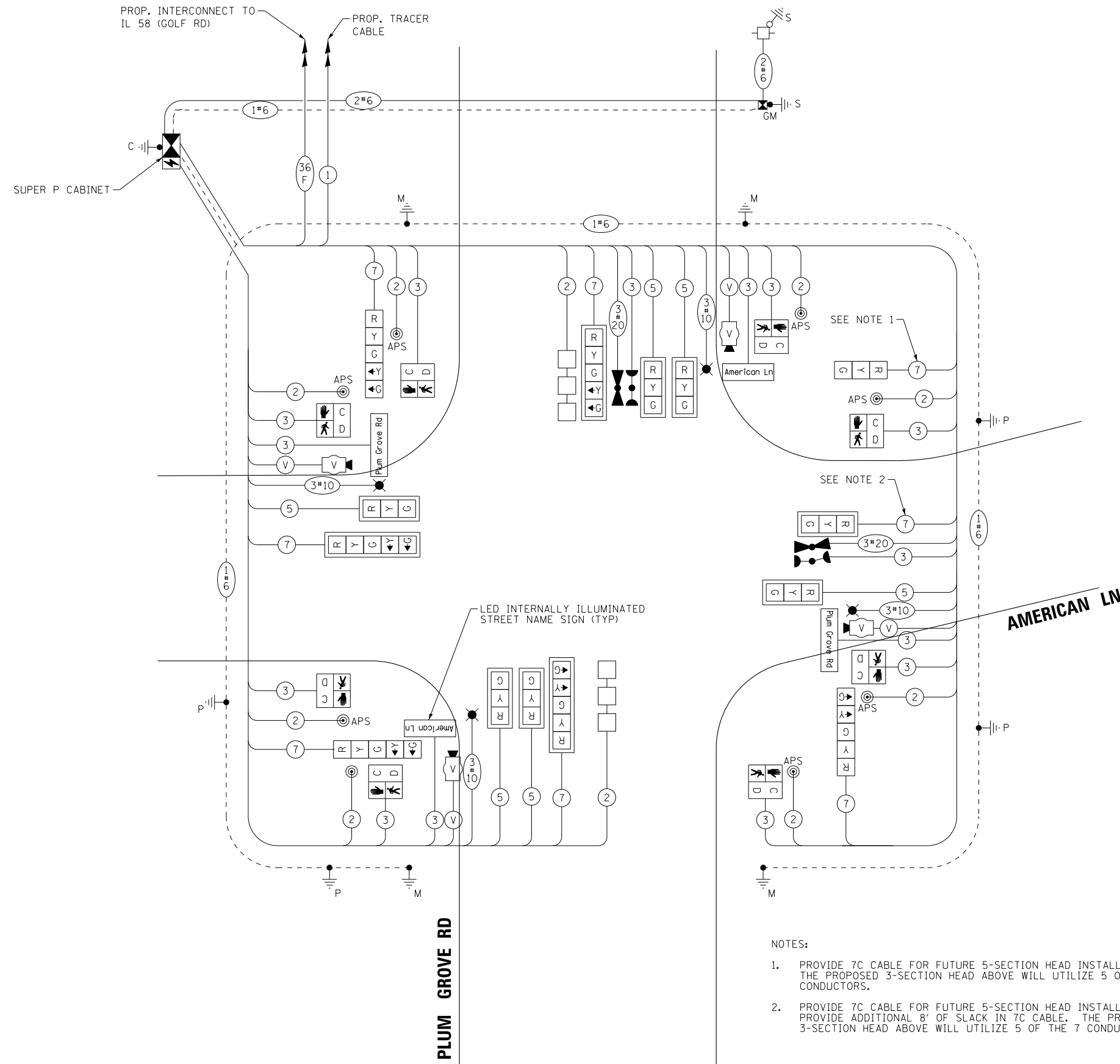
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	8	20	100	160.0
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	3	120	50	180.0
LUMINAIRE	4	140	50	280.0
TOTAL =				1073.6

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193

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



CABLE PLAN
(NOT TO SCALE)

- NOTES:
1. PROVIDE 7C CABLE FOR FUTURE 5-SECTION HEAD INSTALLATION. THE PROPOSED 3-SECTION HEAD ABOVE WILL UTILIZE 5 OF THE 7 CONDUCTORS.
 2. PROVIDE 7C CABLE FOR FUTURE 5-SECTION HEAD INSTALLATION. PROVIDE ADDITIONAL 8' OF SLACK IN 7C CABLE. THE PROPOSED 3-SECTION HEAD ABOVE WILL UTILIZE 5 OF THE 7 CONDUCTORS.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DESIGNED - RWL	REVISED - 4-20-18
DRAWN - UKB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

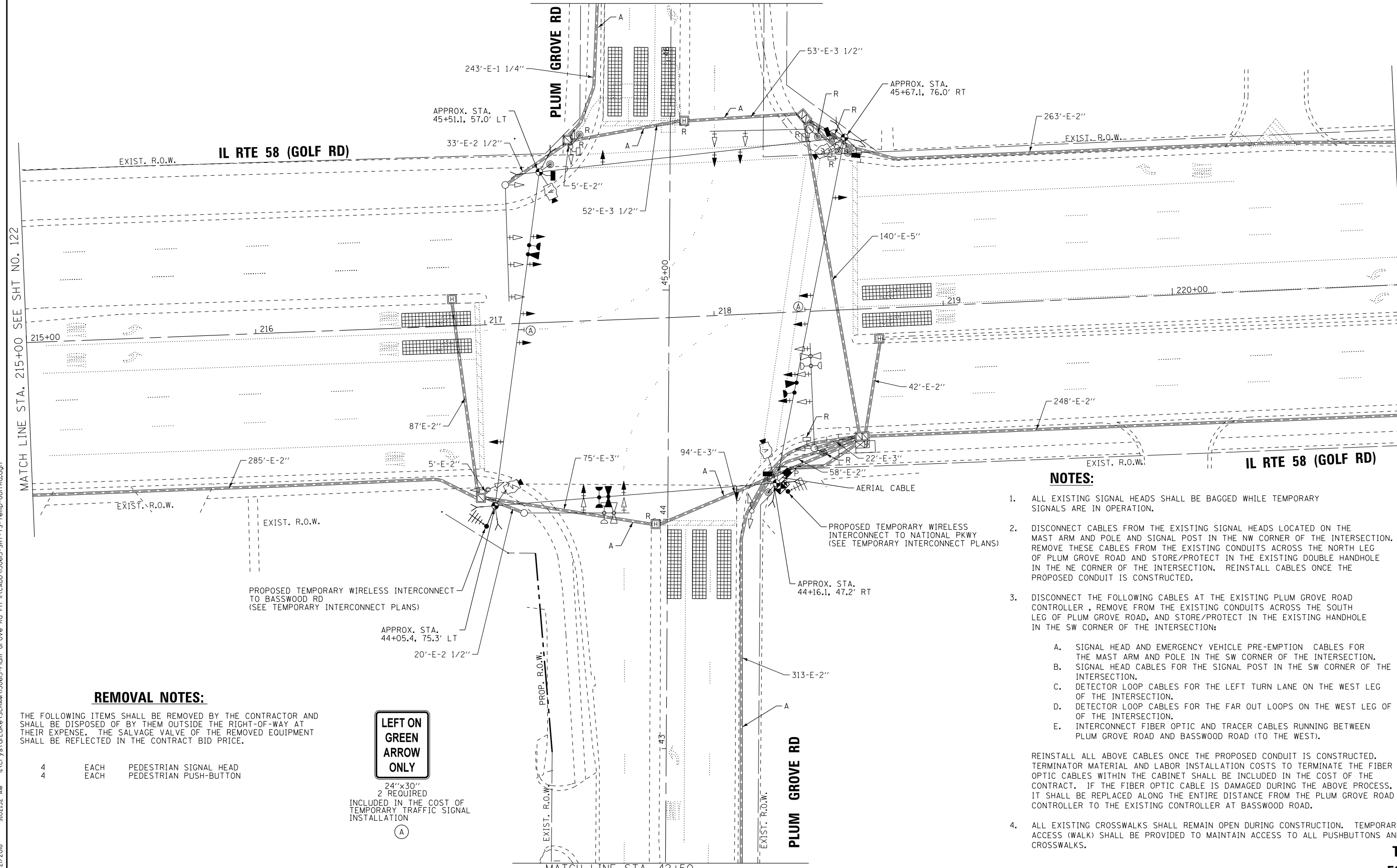
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
PLUM GROVE RD AND AMERICAN LN**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	119
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS XXXX
ECON 78

SEE SHT NO. 122
MATCH LINE STA. 46+25



REMOVAL NOTES:

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

- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON

LEFT ON GREEN ARROW ONLY

24'x30'
2 REQUIRED
INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE BAGGED WHILE TEMPORARY SIGNALS ARE IN OPERATION.
2. DISCONNECT CABLES FROM THE EXISTING SIGNAL HEADS LOCATED ON THE MAST ARM AND POLE AND SIGNAL POST IN THE NW CORNER OF THE INTERSECTION. REMOVE THESE CABLES FROM THE EXISTING CONDUITS ACROSS THE NORTH LEG OF PLUM GROVE ROAD AND STORE/PROTECT IN THE EXISTING DOUBLE HANDHOLE IN THE NE CORNER OF THE INTERSECTION. REINSTALL CABLES ONCE THE PROPOSED CONDUIT IS CONSTRUCTED.
3. DISCONNECT THE FOLLOWING CABLES AT THE EXISTING PLUM GROVE ROAD CONTROLLER, REMOVE FROM THE EXISTING CONDUITS ACROSS THE SOUTH LEG OF PLUM GROVE ROAD, AND STORE/PROTECT IN THE EXISTING HANDHOLE IN THE SW CORNER OF THE INTERSECTION:
 - A. SIGNAL HEAD AND EMERGENCY VEHICLE PRE-EMPTION CABLES FOR THE MAST ARM AND POLE IN THE SW CORNER OF THE INTERSECTION.
 - B. SIGNAL HEAD CABLES FOR THE SIGNAL POST IN THE SW CORNER OF THE INTERSECTION.
 - C. DETECTOR LOOP CABLES FOR THE LEFT TURN LANE ON THE WEST LEG OF THE INTERSECTION.
 - D. DETECTOR LOOP CABLES FOR THE FAR OUT LOOPS ON THE WEST LEG OF THE INTERSECTION.
 - E. INTERCONNECT FIBER OPTIC AND TRACER CABLES RUNNING BETWEEN PLUM GROVE ROAD AND BASSWOOD ROAD (TO THE WEST).

REINSTALL ALL ABOVE CABLES ONCE THE PROPOSED CONDUIT IS CONSTRUCTED. TERMINATOR MATERIAL AND LABOR INSTALLATION COSTS TO TERMINATE THE FIBER OPTIC CABLES WITHIN THE CABINET SHALL BE INCLUDED IN THE COST OF THE CONTRACT. IF THE FIBER OPTIC CABLE IS DAMAGED DURING THE ABOVE PROCESS, IT SHALL BE REPLACED ALONG THE ENTIRE DISTANCE FROM THE PLUM GROVE ROAD CONTROLLER TO THE EXISTING CONTROLLER AT BASSWOOD ROAD.

4. ALL EXISTING CROSSWALKS SHALL REMAIN OPEN DURING CONSTRUCTION. TEMPORARY ACCESS (WALK) SHALL BE PROVIDED TO MAINTAIN ACCESS TO ALL PUSHBUTTONS AND CROSSWALKS.

**TS 2830
ECON 78**

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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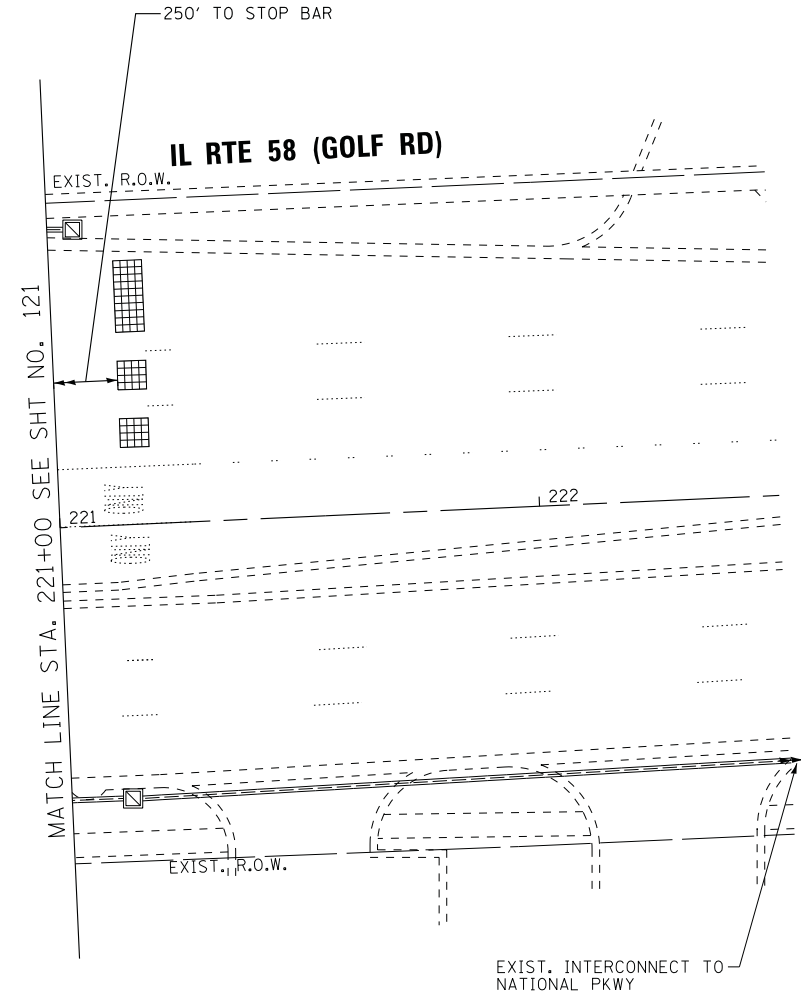
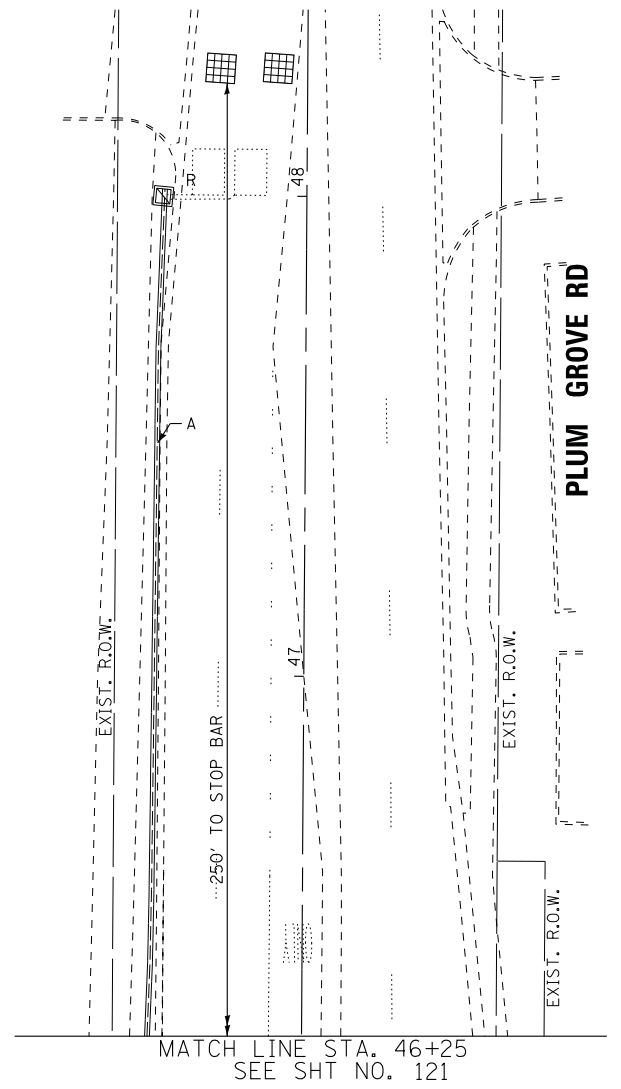
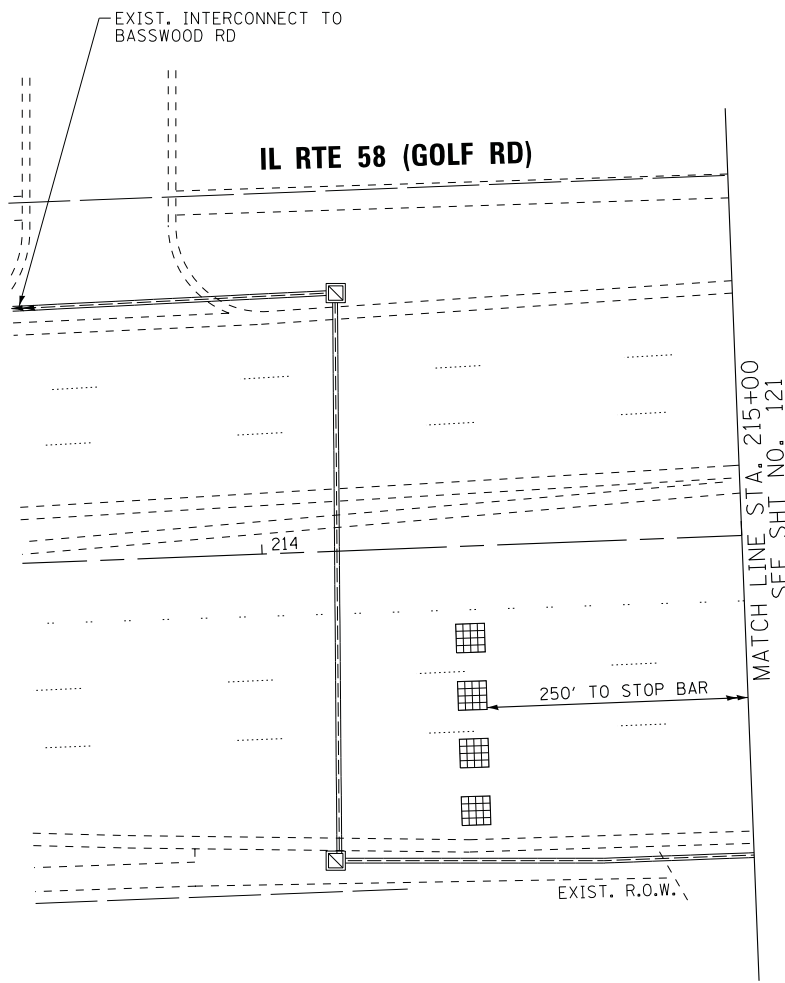
BAXTER & WOODMAN Consulting Engineers	DESIGNED - RWL	REVISED -
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	DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-GolfRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PRE-STAGE AND STAGE 5
TEMPORARY TRAFFIC INSTALLATION PLAN AND
REMOVE EXISTING TRAFFIC EQUIPMENT PLAN (SHEET 1 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	121
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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BAXTER & WOODMAN Consulting Engineers	DESIGNED -	REVISED -
	DRAWN - UKB	REVISED -
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	DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-GolfRd.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

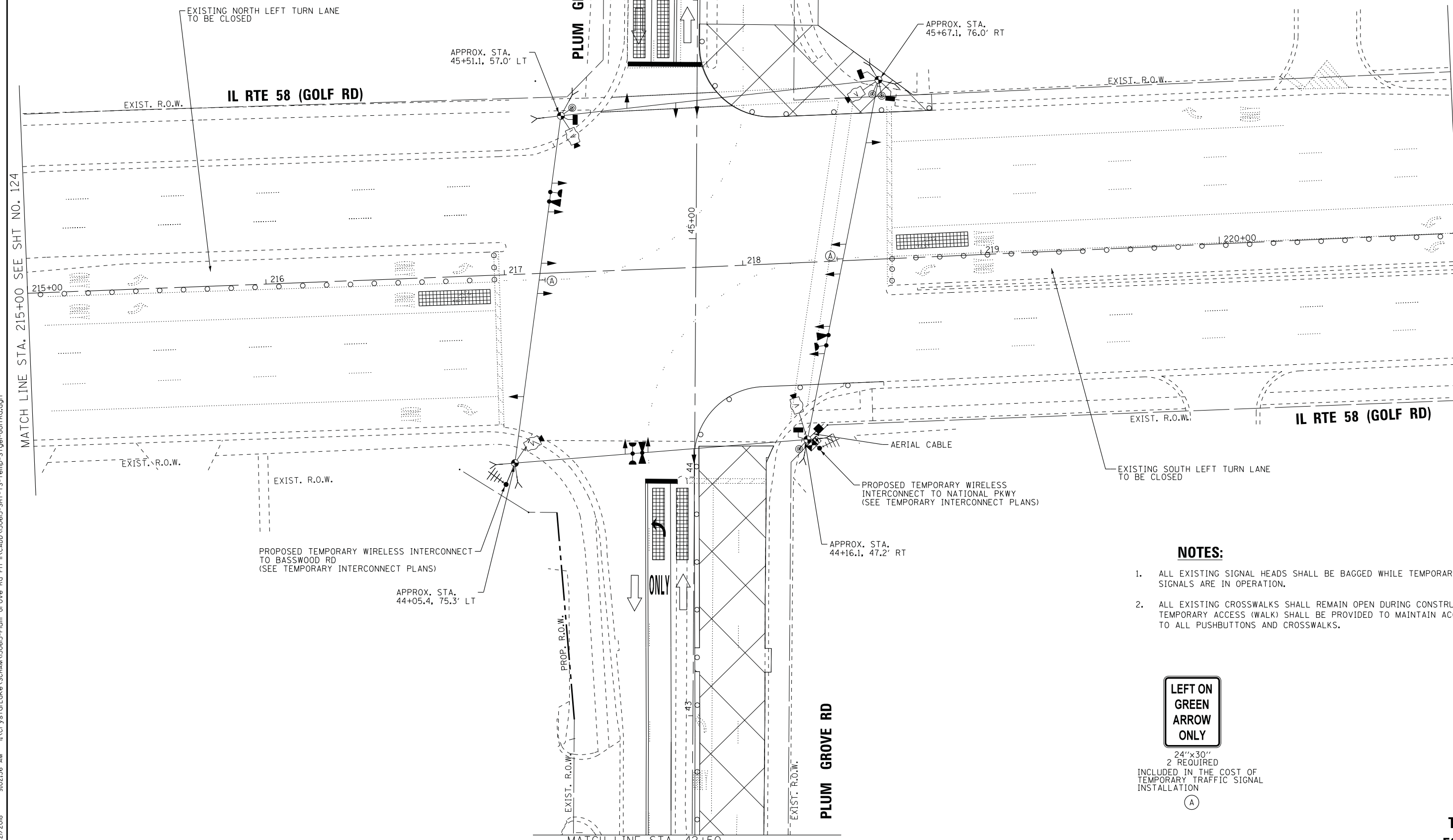
**PRE-STAGE AND STAGE 5
 TEMPORARY TRAFFIC INSTALLATION PLAN AND
 REMOVE EXISTING TRAFFIC EQUIPMENT PLAN (SHEET 2 OF 2)
 PLUM GROVE RD AND IL RTE 58 (GOLF RD)**

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	122
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

**TS 2830
ECON 78**

SEE SHT NO. 124
MATCH LINE STA. 46+25



NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE BAGGED WHILE TEMPORARY SIGNALS ARE IN OPERATION.
2. ALL EXISTING CROSSWALKS SHALL REMAIN OPEN DURING CONSTRUCTION. TEMPORARY ACCESS (WALK) SHALL BE PROVIDED TO MAINTAIN ACCESS TO ALL PUSHBUTTONS AND CROSSWALKS.

LEFT ON GREEN ARROW ONLY

24"x30"
2 REQUIRED
INCLUDED IN THE COST OF
TEMPORARY TRAFFIC SIGNAL
INSTALLATION

(A)

MATCH LINE STA. 42+50
SEE SHT NO. 124

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 1, STAGE 3A AND STAGE 3B (SHEET 1 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

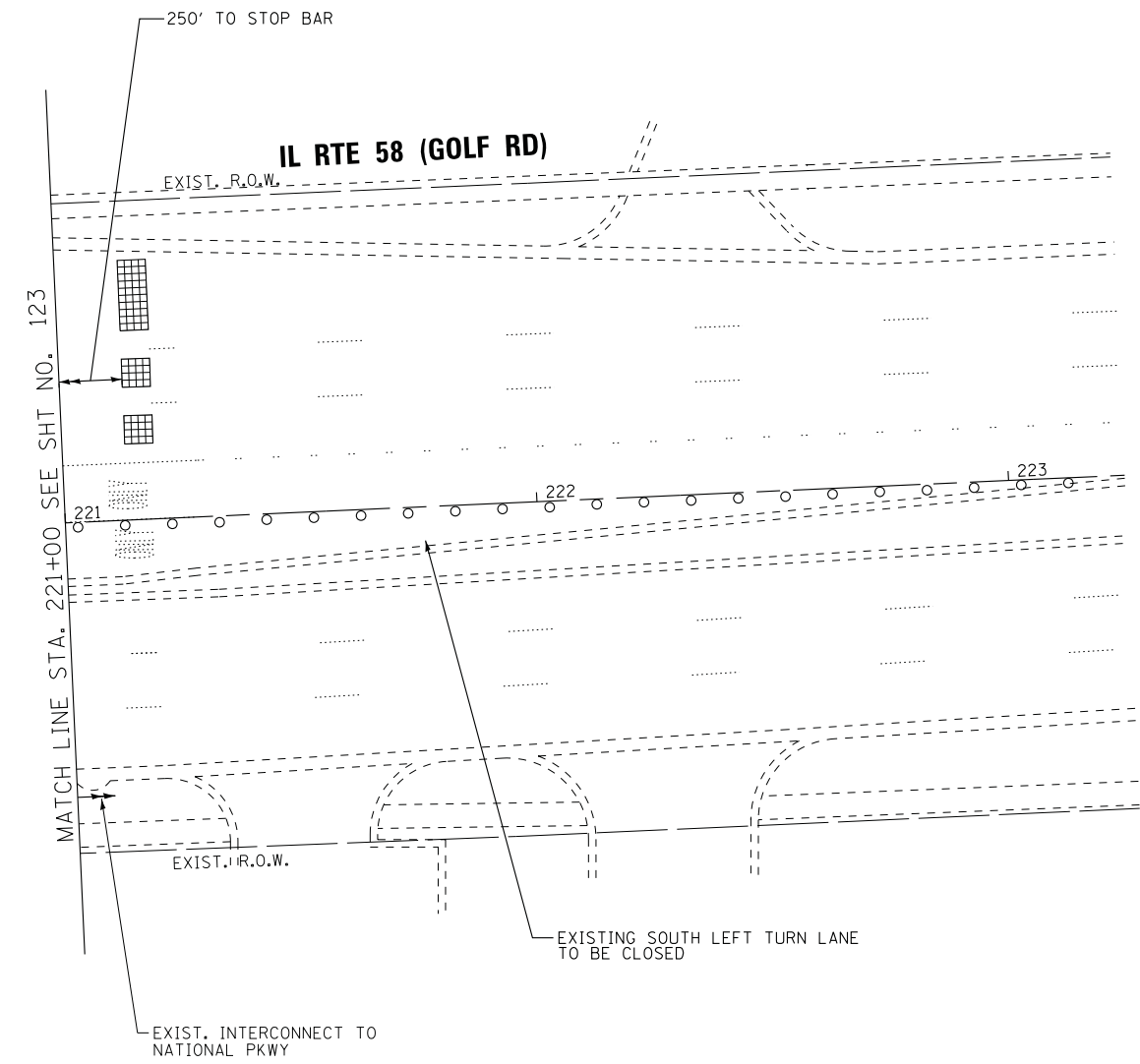
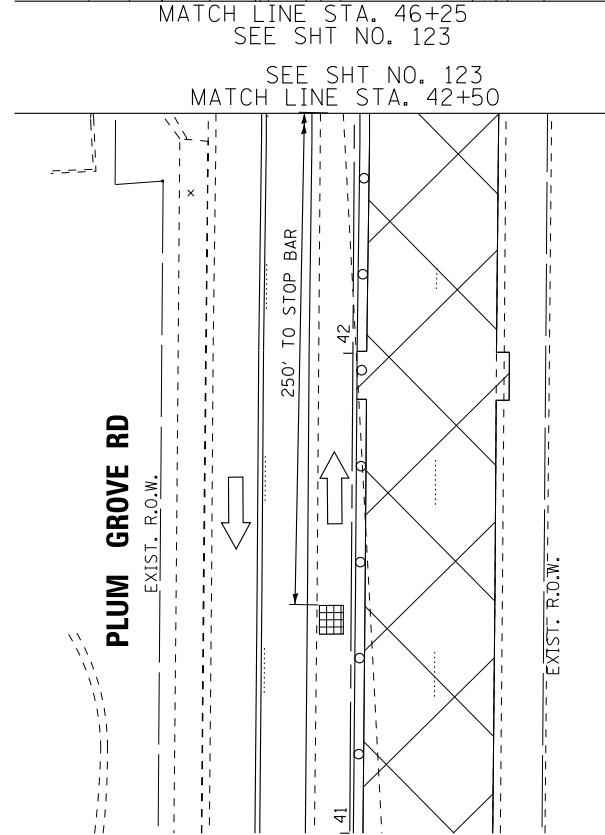
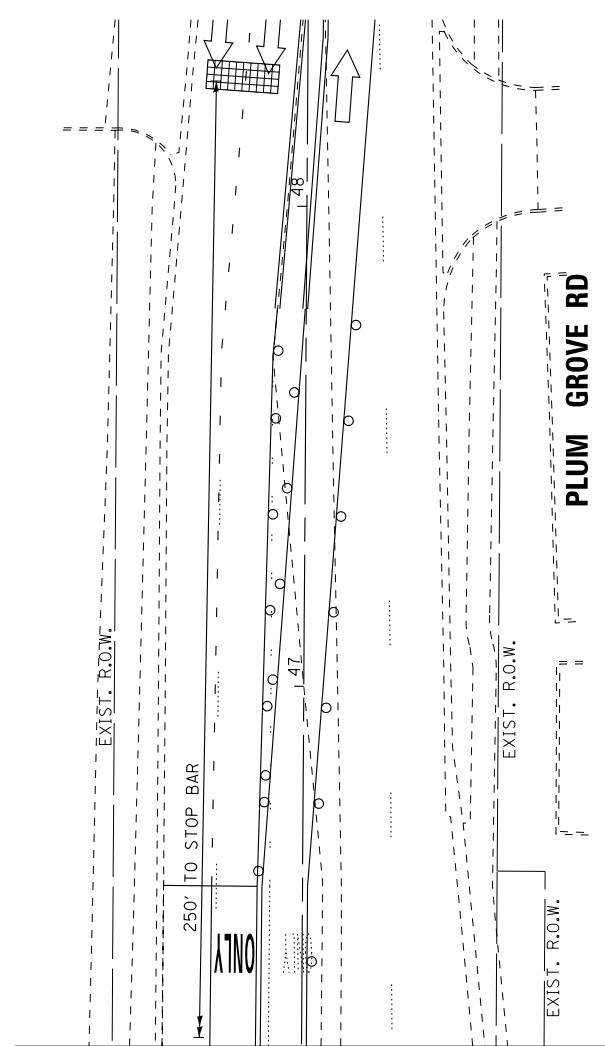
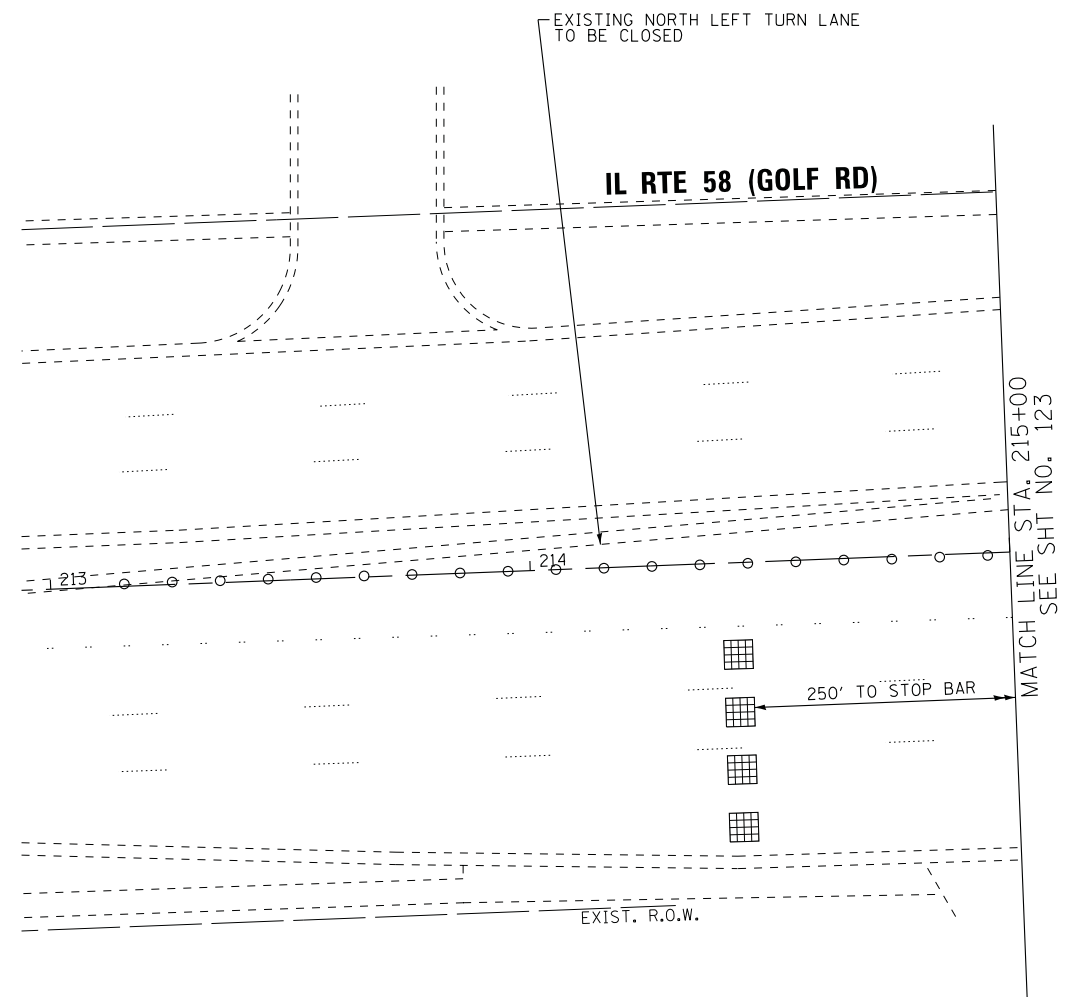
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	123
				CONTRACT NO. 61E29

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

**TS 2830
ECON 78**

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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BAXTER & WOODMAN Consulting Engineers	DESIGNED - RWL	REVISED -
	DRAWN - UKB	REVISED -
	CHECKED - RWL	REVISED -
	DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stge1-GolFRd.dgn



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

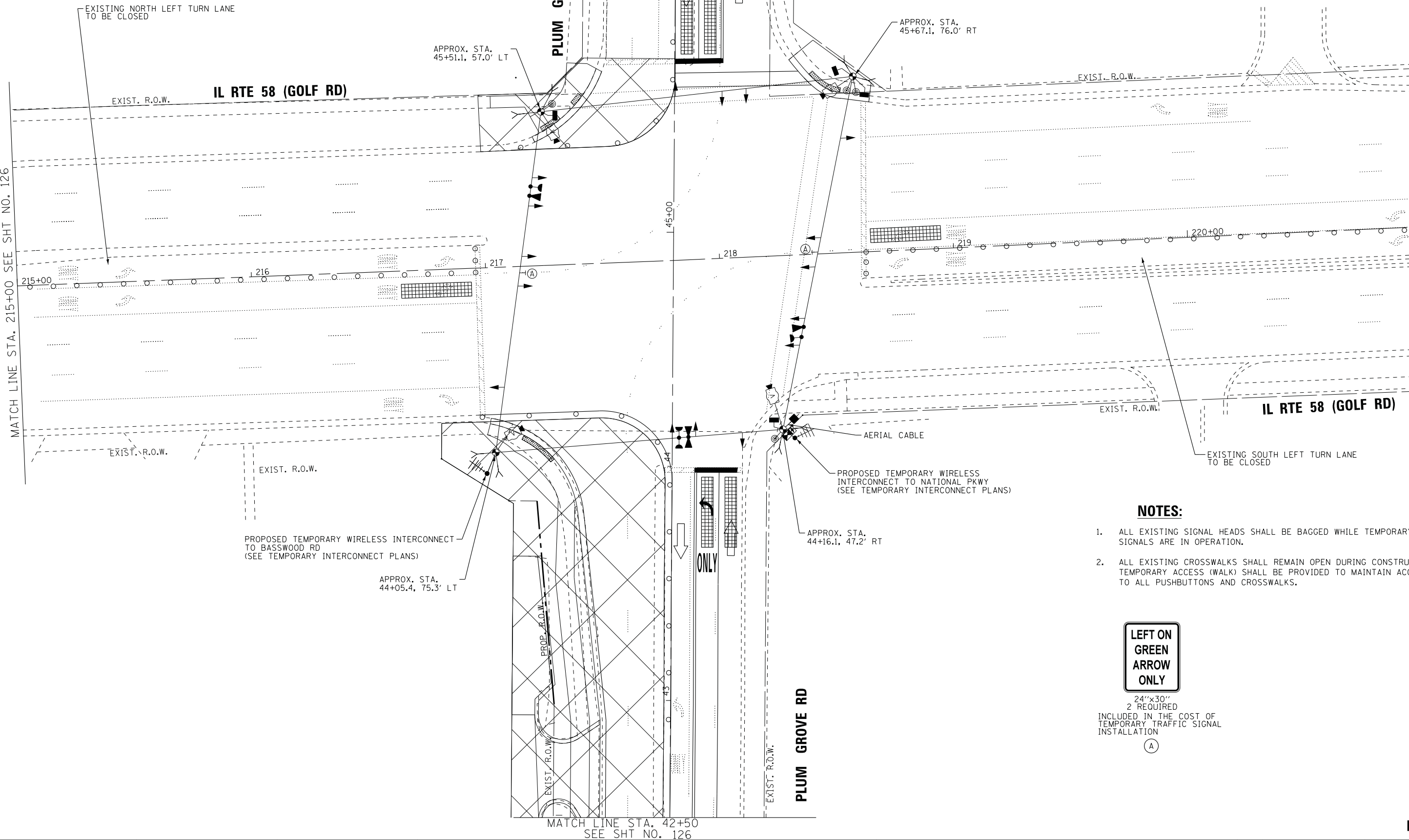
TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 1, STAGE 3A AND STAGE 3B (SHEET 2 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	124
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS 2830
ECON 78

SEE SHT NO. 126
MATCH LINE STA. 46+25



NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE BAGGED WHILE TEMPORARY SIGNALS ARE IN OPERATION.
2. ALL EXISTING CROSSWALKS SHALL REMAIN OPEN DURING CONSTRUCTION. TEMPORARY ACCESS (WALK) SHALL BE PROVIDED TO MAINTAIN ACCESS TO ALL PUSHBUTTONS AND CROSSWALKS.

**LEFT ON
GREEN
ARROW
ONLY**

24"x30"
2 REQUIRED
INCLUDED IN THE COST OF
TEMPORARY TRAFFIC SIGNAL
INSTALLATION

(A)

MATCH LINE STA. 42+50
SEE SHT NO. 126

**TS 2830
ECON 78**

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
5/21/2018 9:02:39 AM
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BAXTER & WOODMAN
Consulting Engineers

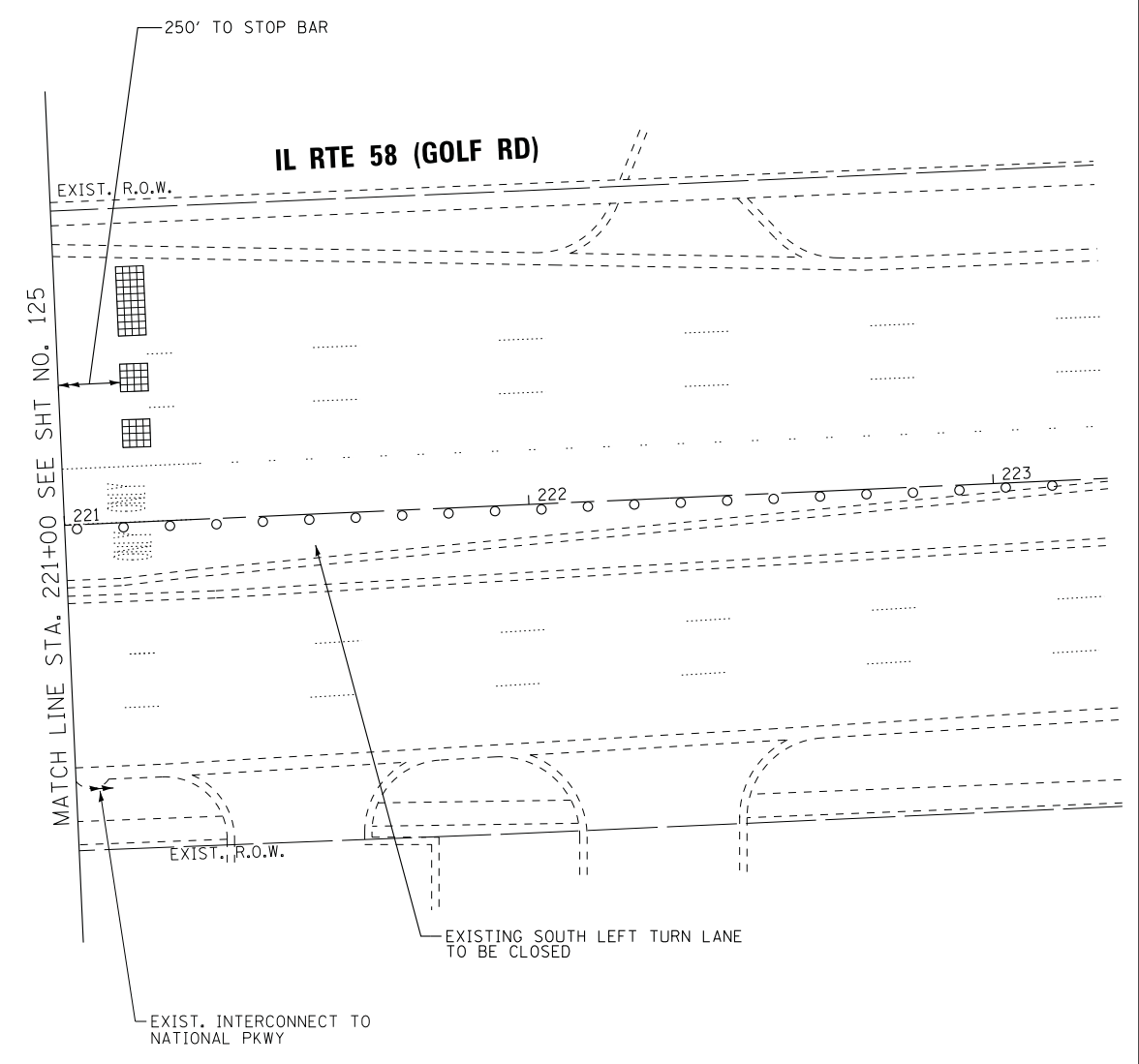
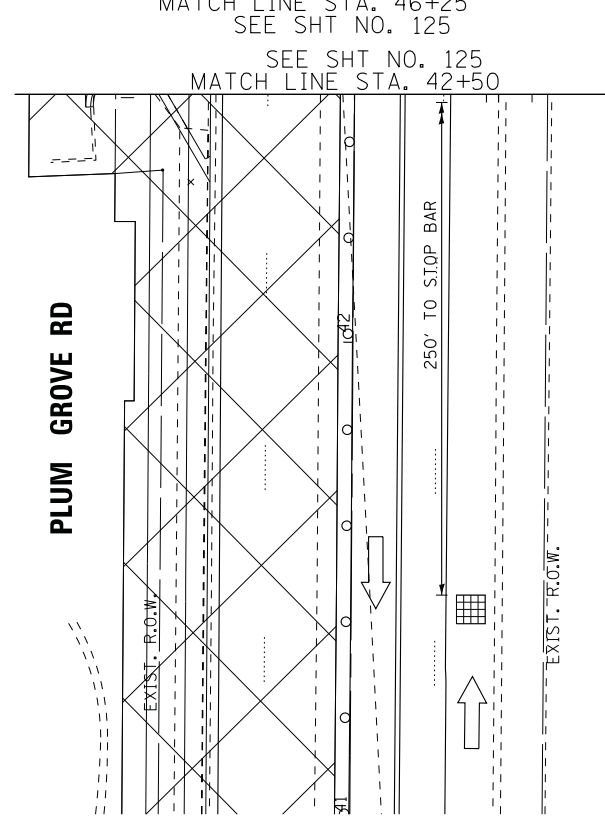
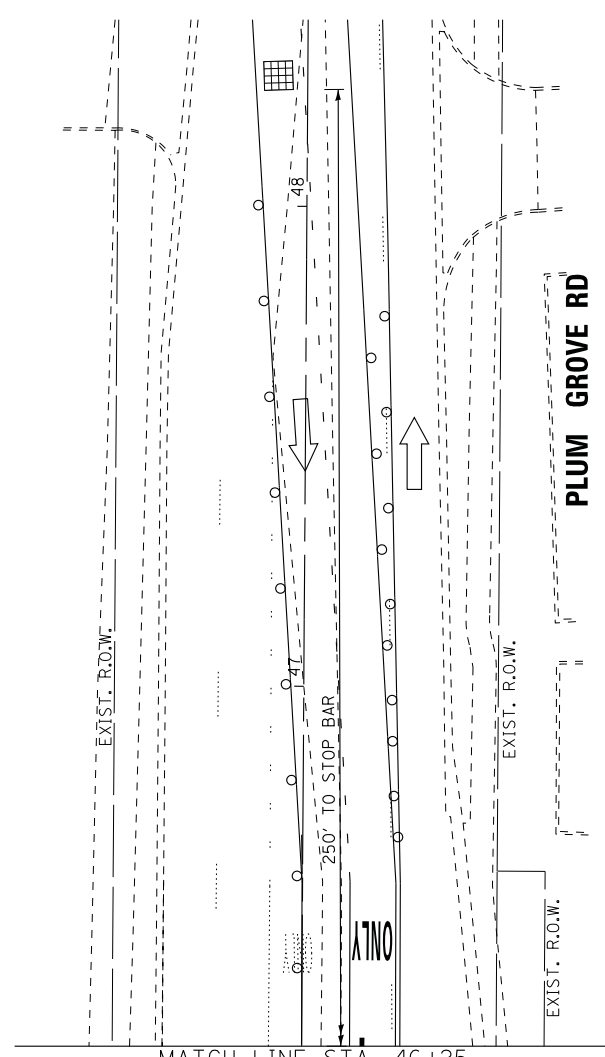
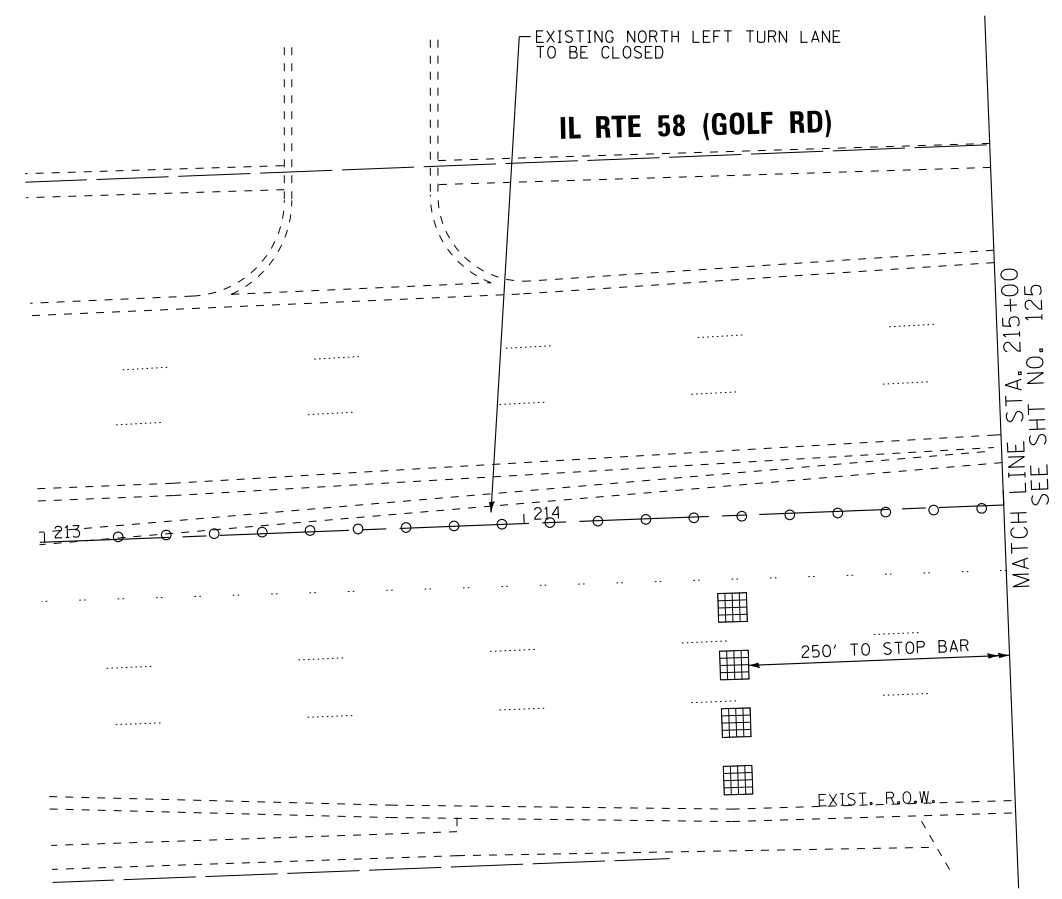
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DRAWN -	UKB	REVISED -	
CHECKED -	RWL	REVISED -	
DATE -	10-9-17	FILE -	150615-SHT-TS-Temp-Stge2-GolfRd.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 2 (SHEET 1 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	125
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 2 (SHEET 2 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)**

**TS 2830
ECON 78**

DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stge2-GolfRd.dgn

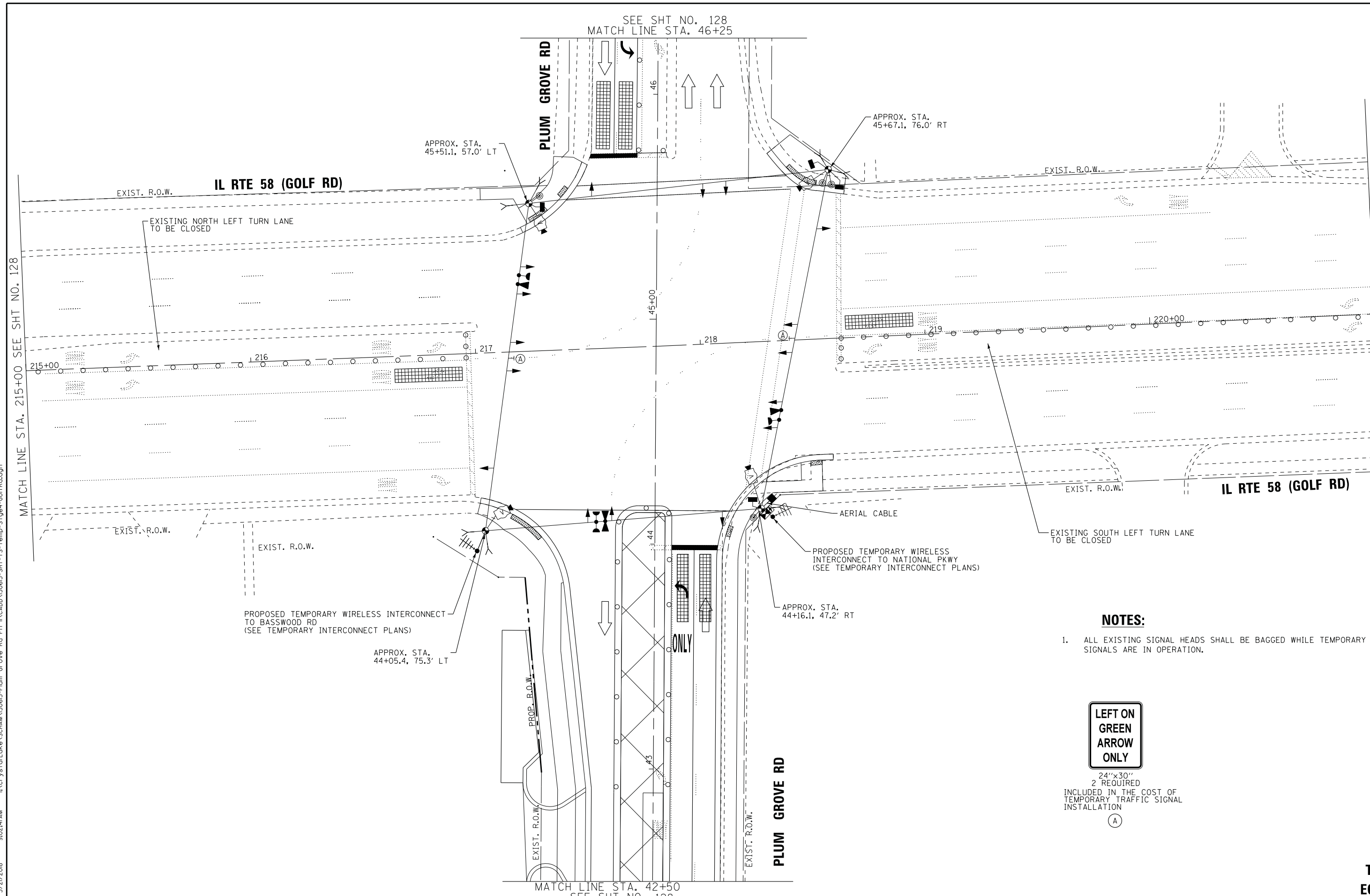
SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	126
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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SEE SHT NO. 128
MATCH LINE STA. 46+25



NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE BAGGED WHILE TEMPORARY SIGNALS ARE IN OPERATION.

LEFT ON GREEN ARROW ONLY

24"x30"
2 REQUIRED
INCLUDED IN THE COST OF
TEMPORARY TRAFFIC SIGNAL
INSTALLATION

(A)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-00121 - EXPIRES 4/30/2019
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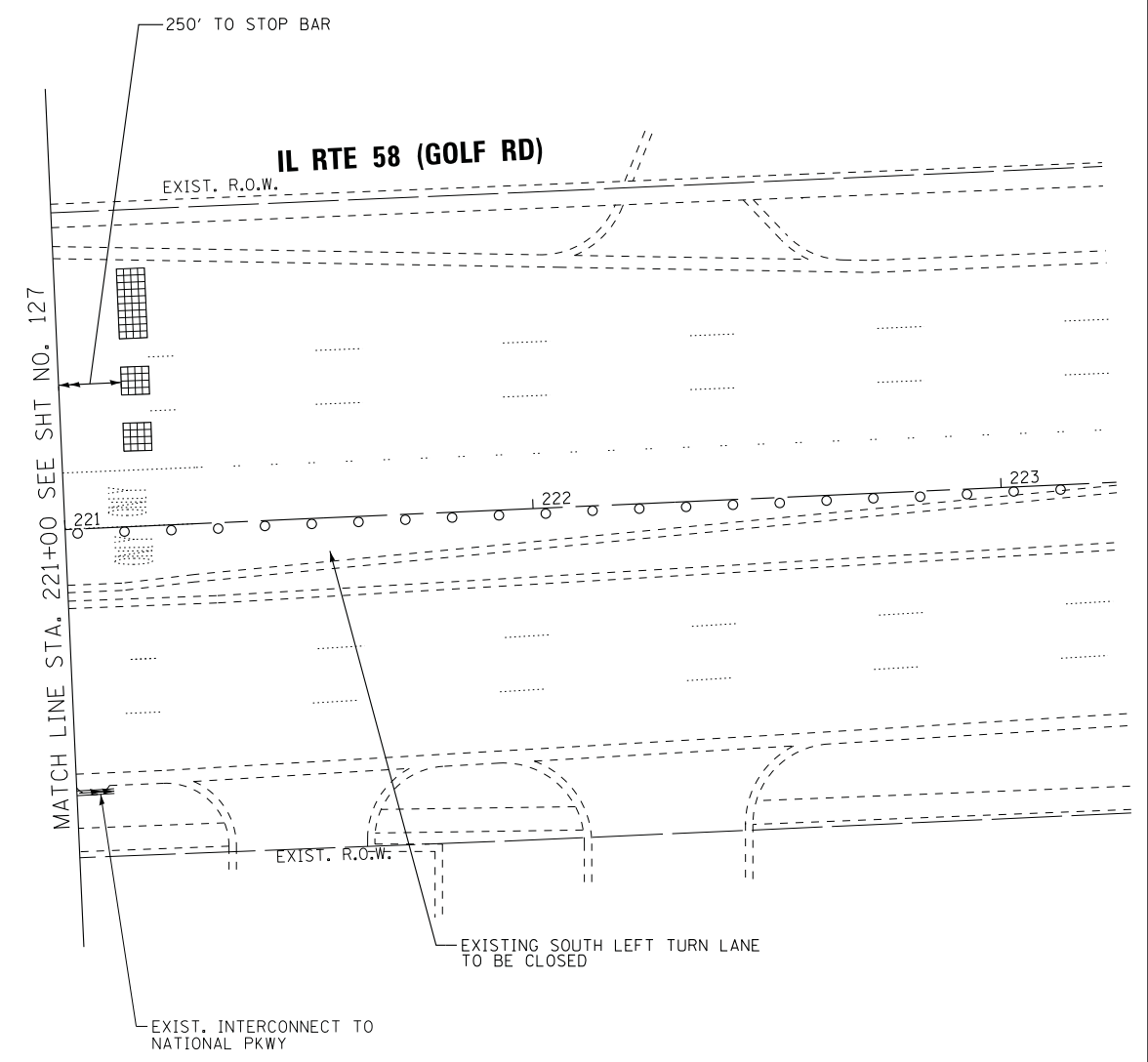
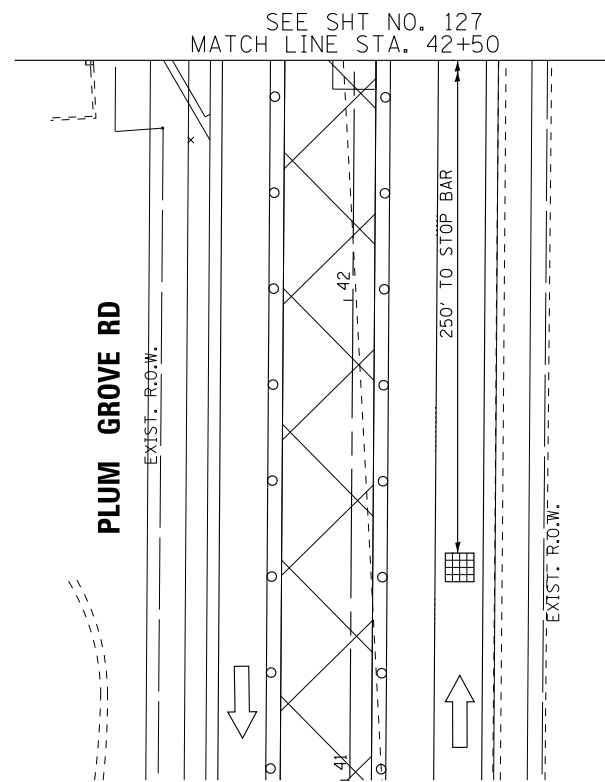
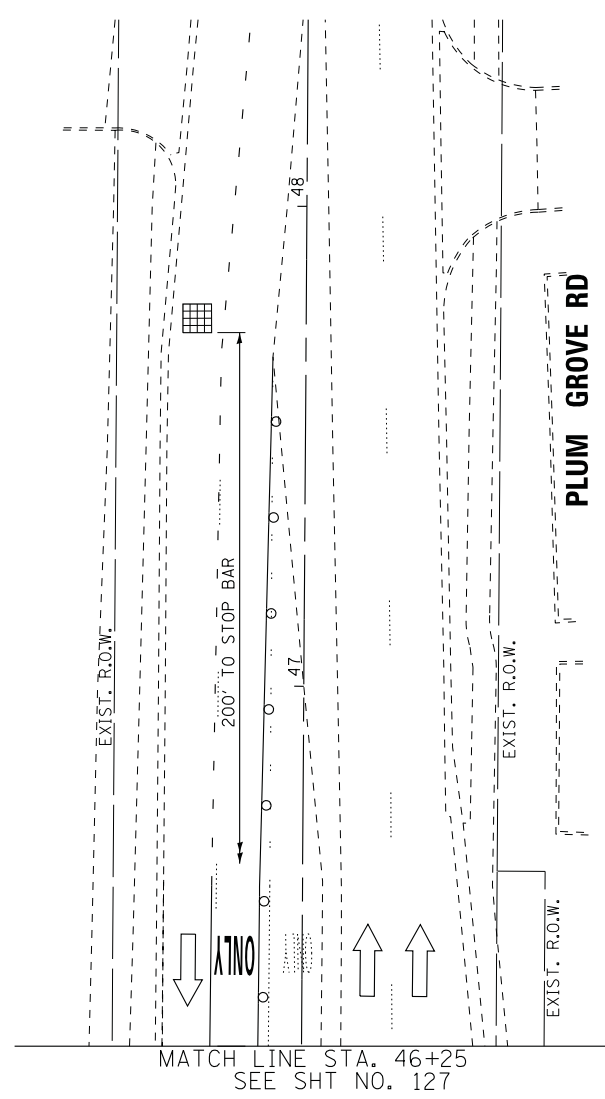
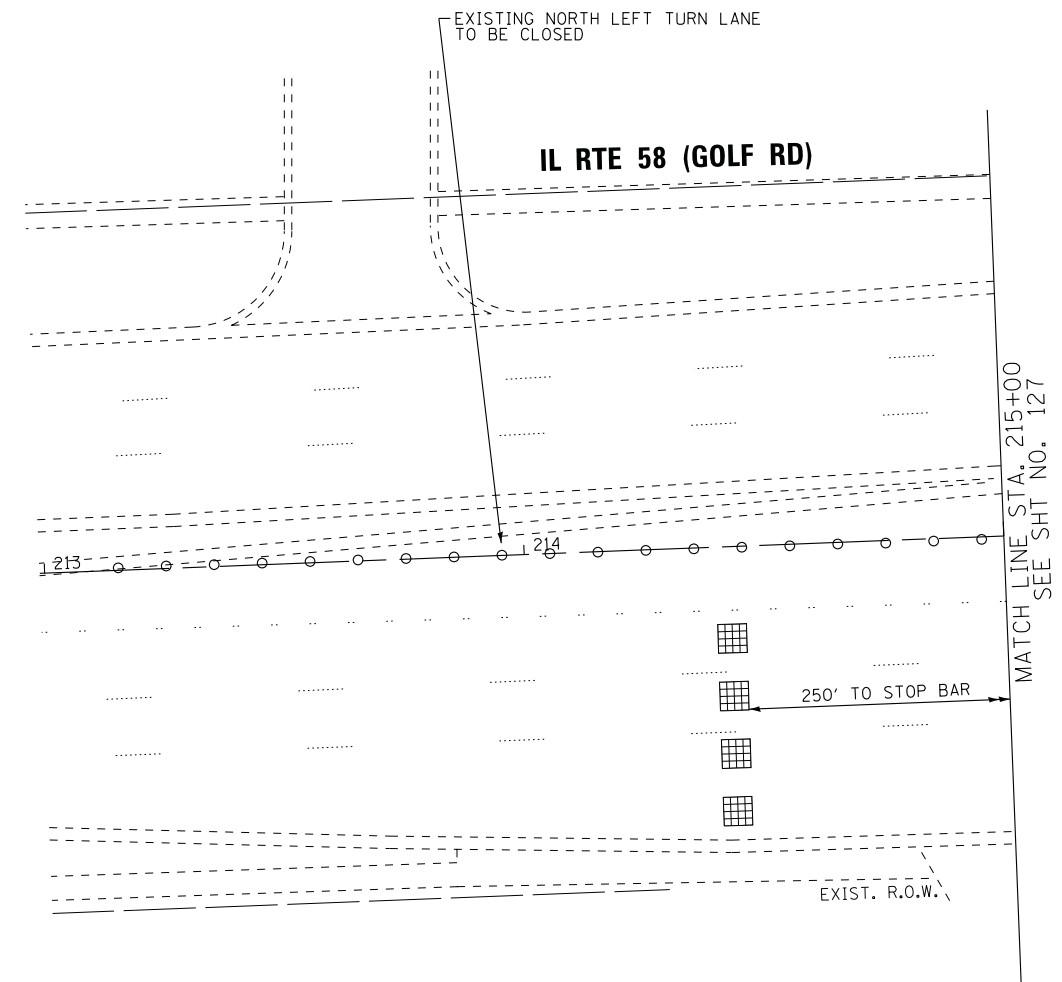
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 4 (SHEET 1 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	127
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

TS 2830
ECON 78



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN
STAGE 4 (SHEET 2 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	128
CONTRACT NO. 61E29				

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

TS 2830
ECON 78

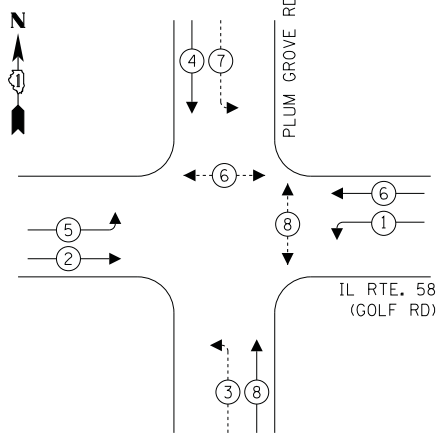
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BAXTER & WOODMAN
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Stge4-GolfRd.dgn



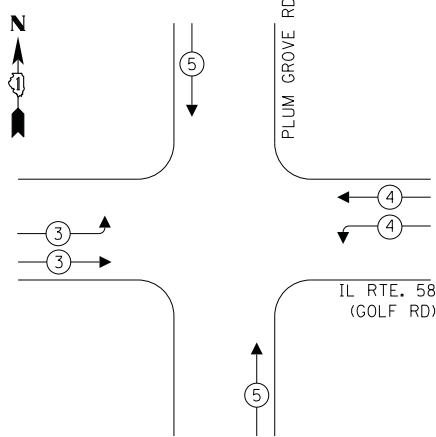
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←(*)... PROTECTED/PERMITTED PHASE
- ←(*)... PEDESTRIAN PHASE
- ←(OL) OVERLAP

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



IL RTE. 58
(GOLF RD)

PLUM GROVE RD

PLUM GROVE RD

IL RTE. 58
(GOLF RD)

PROP. TEMPORARY WIRELESS
INTERCONNECT TO BASSWOOD RD
(SEE TEMPORARY INTERCONNECT PLAN)

PROP. TEMPORARY WIRELESS
INTERCONNECT TO NATIONAL PKWY
(SEE TEMPORARY INTERCONNECT PLAN)

NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE BAGGED WHILE TEMPORARY SIGNALS ARE IN OPERATION.

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	4	20	100	80.0
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 =				470.2

ENERGY COSTS TO:

VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, ILLINOIS 60143

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

BAXTER & WOODMAN
Consulting Engineers

DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-TEMP-CABLE-GolfRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
(NOT TO SCALE)

PRE-STAGE, STAGES 1, 2, 3A, 3B, 4, AND 5

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
PLUM GROVE RD AND IL RTE 58 (GOLF RD)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

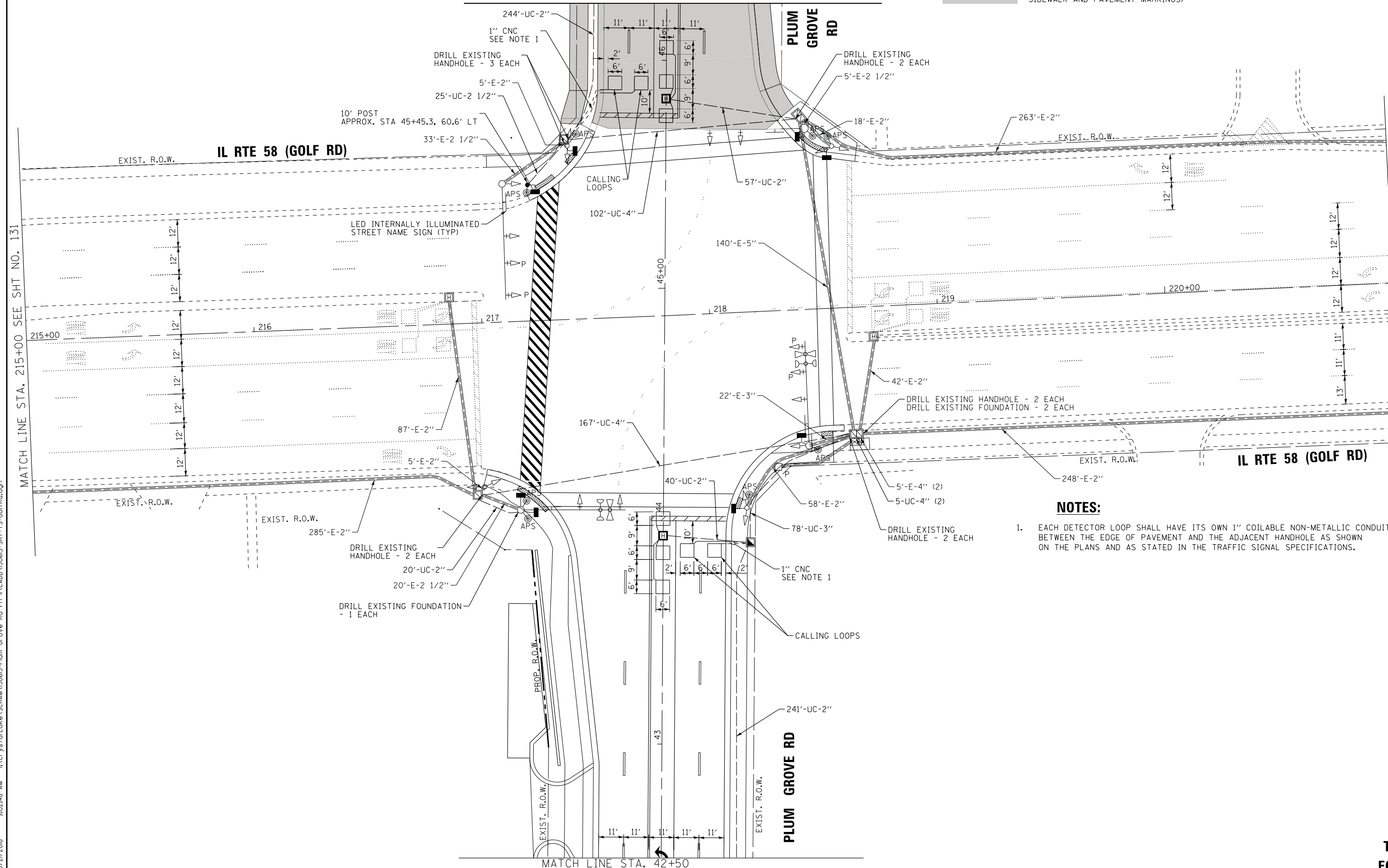
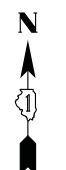
TS 2830
ECON 78

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	129
				CONTRACT NO. 61E29

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

SEE SHT NO. 131
MATCH LINE STA. 46+25

BY OTHERS
(CURB AND GUTTER, PAVEMENT,
SIDEWALK AND PAVEMENT MARKINGS)



NOTES:

1. 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.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 5/21/2018 9:02:48 AM
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BAXTER & WOODMAN Consulting Engineers	DESIGNED - RWL	REVISED -
	DRAWN - UKB	REVISED -
	CHECKED - RWL	REVISED -
	DATE - 10-9-17	FILE - 150615-SHT-TS-GolfRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
PLUM GROVE RD AND IL RTE 58 (GOLF RD)

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

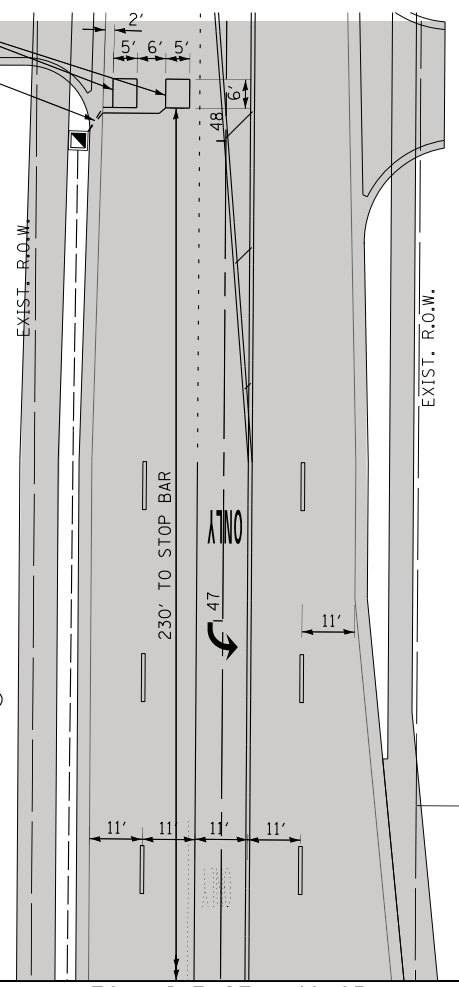
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2582	14-00115-00-PV	COOK	199	130
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	

TS 2830
ECON 78



PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

1" CNC SEE NOTE 1



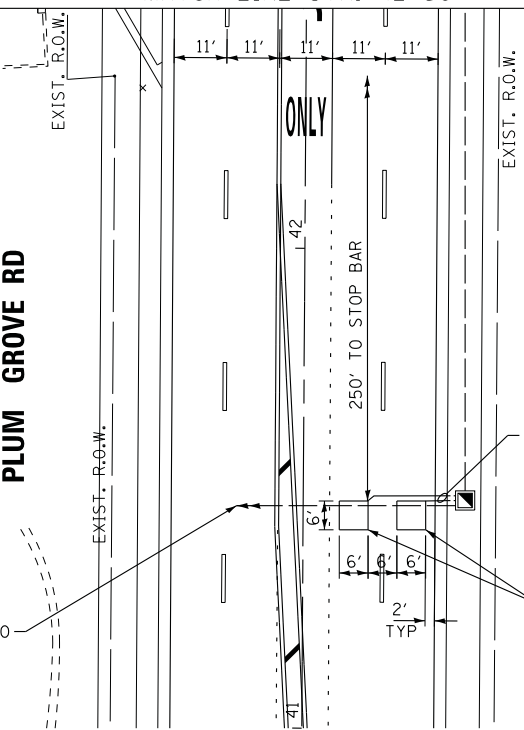
PLUM GROVE RD

BY OTHERS
(CURB AND GUTTER, PAVEMENT,
SIDEWALK AND PAVEMENT MARKINGS)

MATCH LINE STA. 46+25
SEE SHT NO. 130

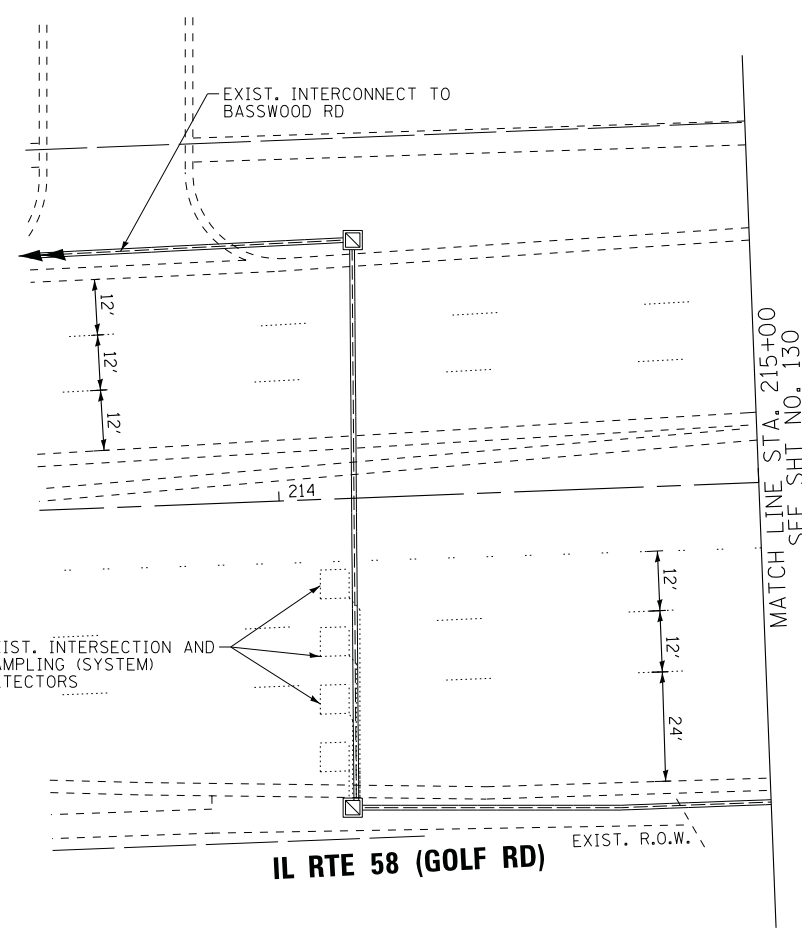
SEE SHT NO. 130
MATCH LINE STA. 42+50

PLUM GROVE RD

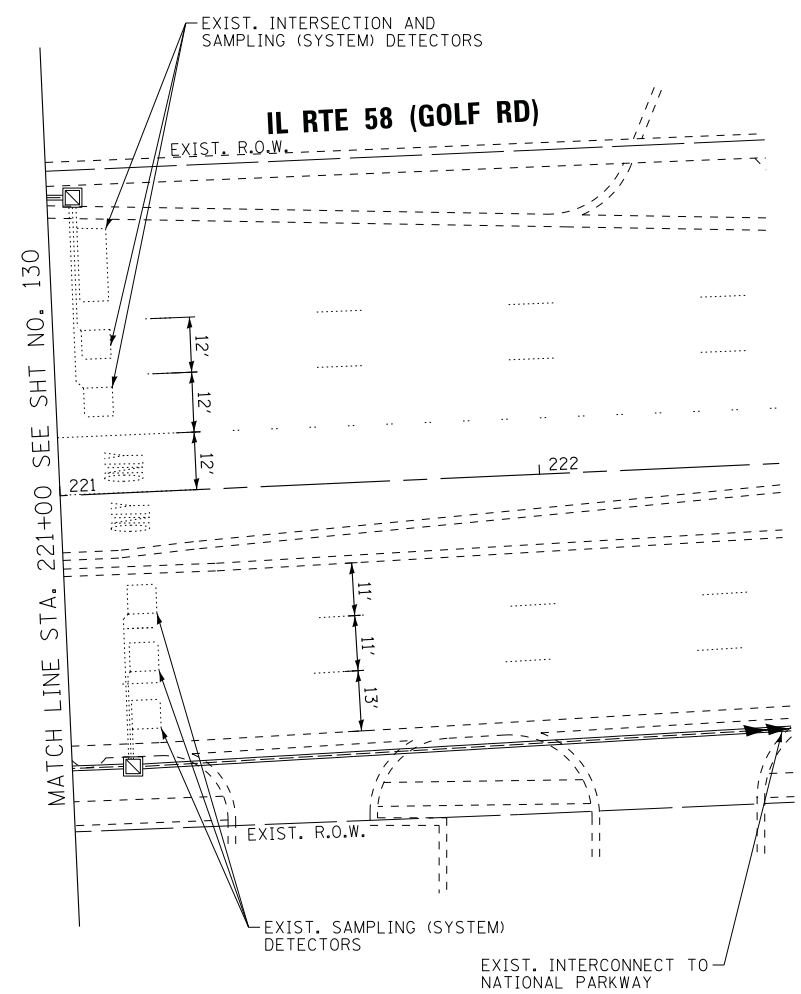


PROP. INTERCONNECT TO AMERICAN LN

PROP. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



IL RTE 58 (GOLF RD)



IL RTE 58 (GOLF RD)

NOTES:

1. 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.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DATE - 10-9-17	FILE - 150615-SHT-TS-GolfRd.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

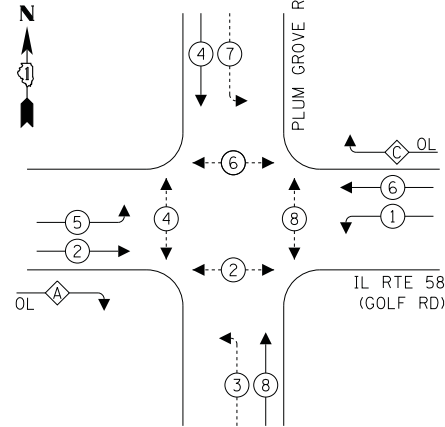
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
PLUM GROVE RD AND IL RTE. 58 (GOLF RD)

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	131
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	

TS 2830
ECON 78

PROPOSED CONTROLLER SEQUENCE



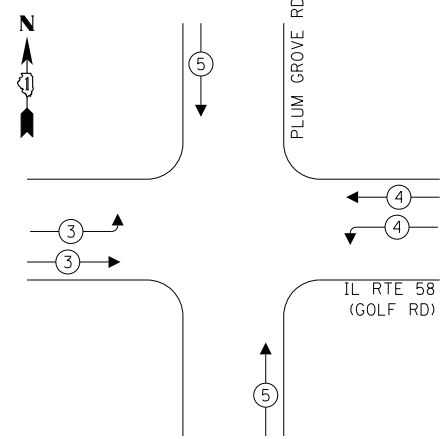
LEGEND:

- ← * → PROTECTED PHASE
- ← * ··· → PROTECTED/PERMITTED PHASE
- ← * ··· → PEDESTRIAN PHASE
- ← * ··· → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



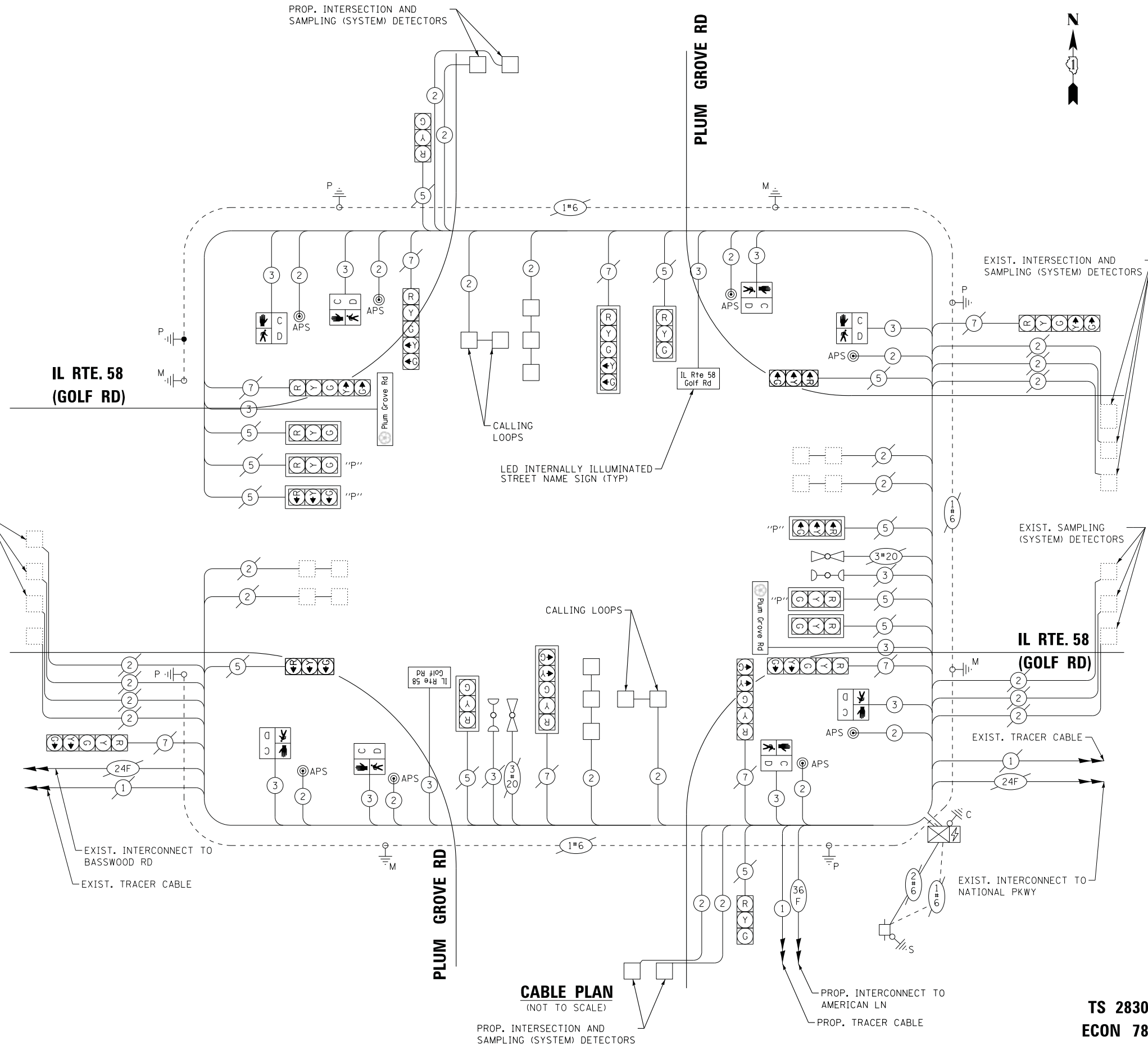
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	28	10	10	28.0
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	-	-	-	-
TOTAL =				743.4

ENERGY COSTS TO:
VILLAGE OF SCHAUMBURG
 101 SCHAUMBURG COURT
 SCHAUMBURG, ILLINOIS 60143
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CABLE PLAN
 (NOT TO SCALE)



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-CABLE-GolfRd.dgn

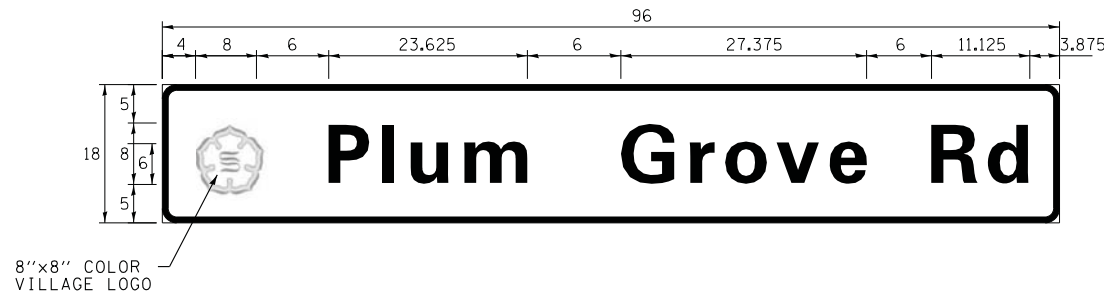
SCALE: NONE		SHEET OF SHEETS		STA. TO STA.	
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE PLUM GROVE RD AND IL RTE 58 (GOLF RD)		2582		14-00115-00-PV	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	132
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

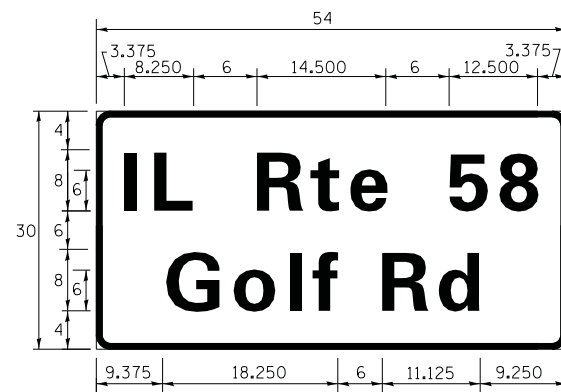
**TS 2830
 ECON 78**

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	602
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	78
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	279
HANDHOLE	EACH	3
HEAVY DUTY HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1617
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	2563
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2622
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1226
TRAFFIC SIGNAL PCST, GALVANIZED STEEL 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING FOUNDATION	EACH	3
DRILL EXISTING HANDHOLE	EACH	11
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	463
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3109
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	5561
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
ROD AND CLEAN EXISTING CONDUIT	FOOT	38
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE No. - 184-00121 - EXPIRES 4/30/2019
 5/21/2018 9:02:52 AM
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DESIGNED - RWL	REVISED -
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DATE - 10-9-17	FILE - I50615-SHT-TS-CABLE-GolfRd.dgn

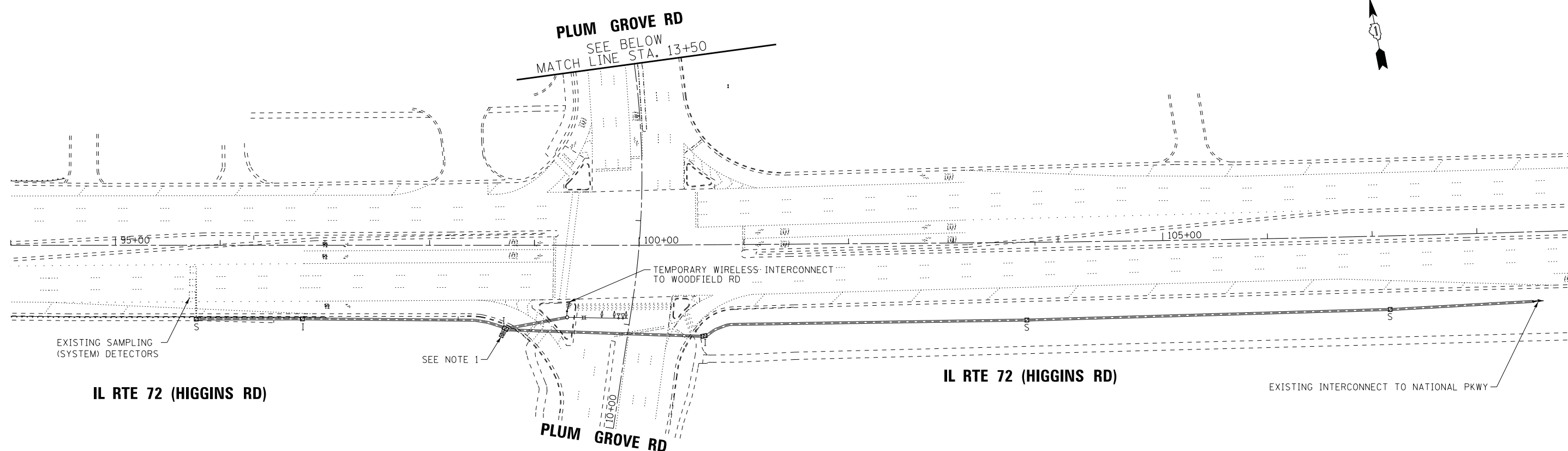
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
 AND SCHEDULE OF QUANTITIES
 PLUM GROVE RD AND IL RTE 58 (GOLF RD)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	133
CONTRACT NO. 61E29			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16	

TS 2830
 ECON 78



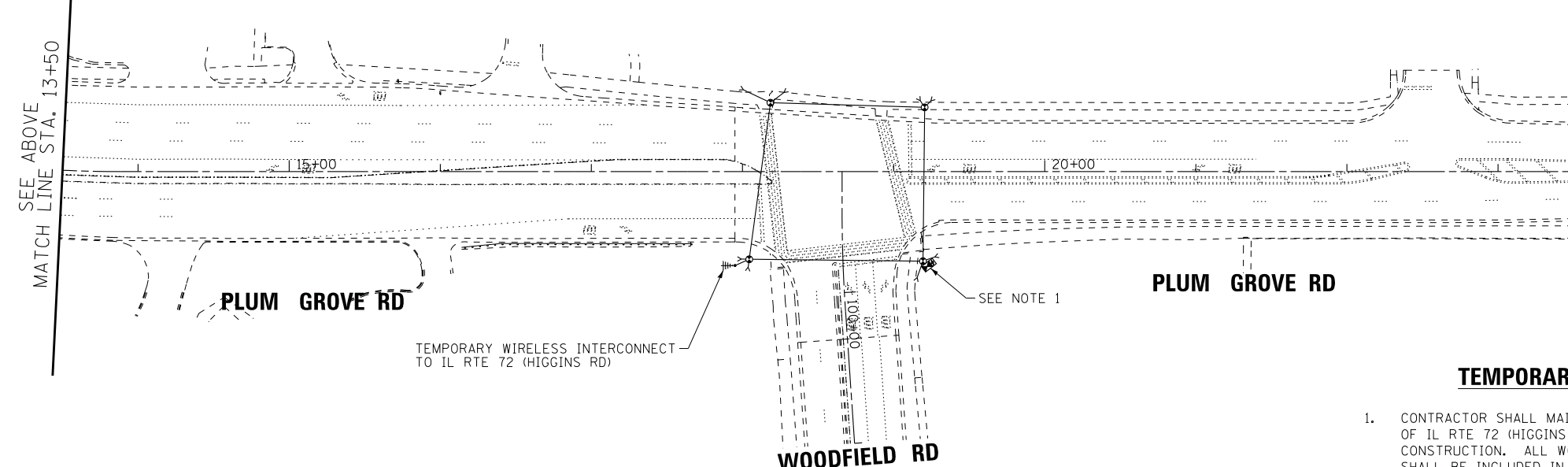
IL RTE 72 (HIGGINS RD)

IL RTE 72 (HIGGINS RD)

EXISTING INTERCONNECT TO NATIONAL PKWY

SEE NOTE 1

SEE NOTE 1



SEE ABOVE
MATCH LINE STA. 13+50

PLUM GROVE RD

PLUM GROVE RD

WOODFIELD RD

TEMPORARY INTERCONNECT NOTES

1. CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS LOCATED AT THE INTERSECTIONS OF IL RTE 72 (HIGGINS RD) AT PLUM GROVE RD AND PLUM GROVE RD AT WOODFIELD RD 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 FOR WOODFIELD RD.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
 5/21/2018 9:02:55 AM
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DESIGNED - RWL	REVISED -
DRAWN - UKB	REVISED -
CHECKED - RWL	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-TS-Temp-Intrcnct-Woodfield.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN			
IL RTE 72 (HIGGINS RD) - PLUM GROVE TO MORNINGSIDE DR			
PLUM GROVE RD - IL RTE 72 (HIGGINS RD) TO WOODFIELD RD			
SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	134
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

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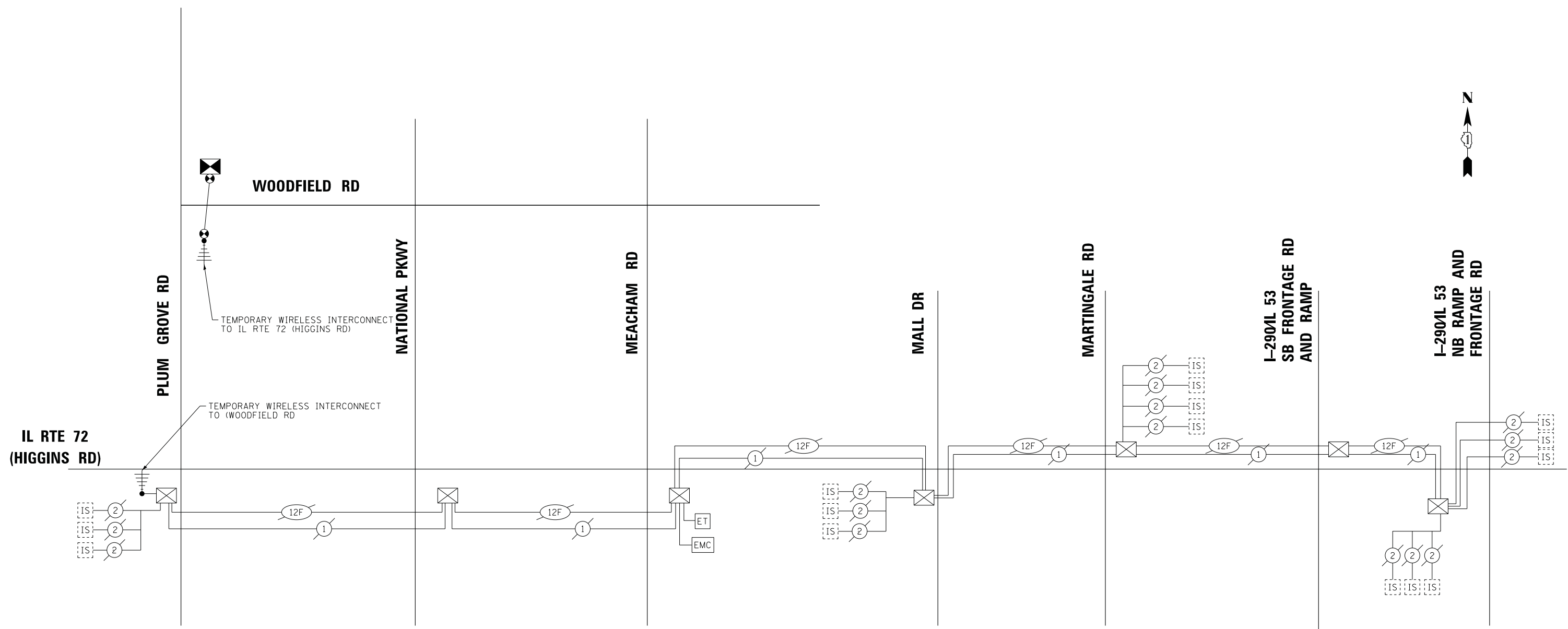


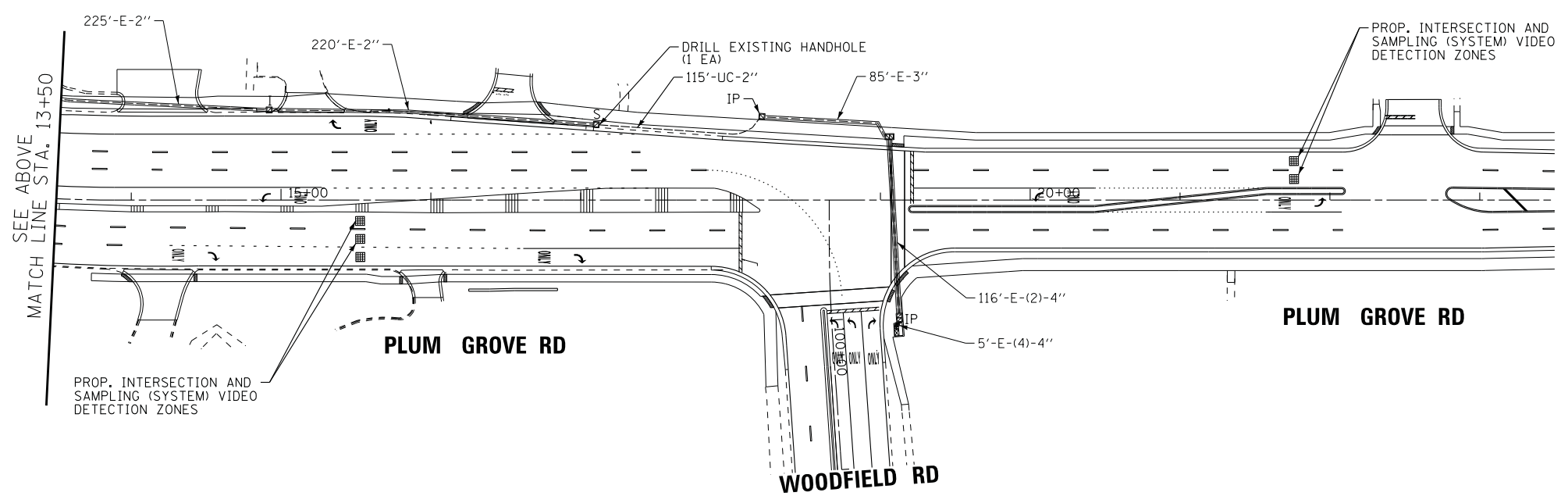
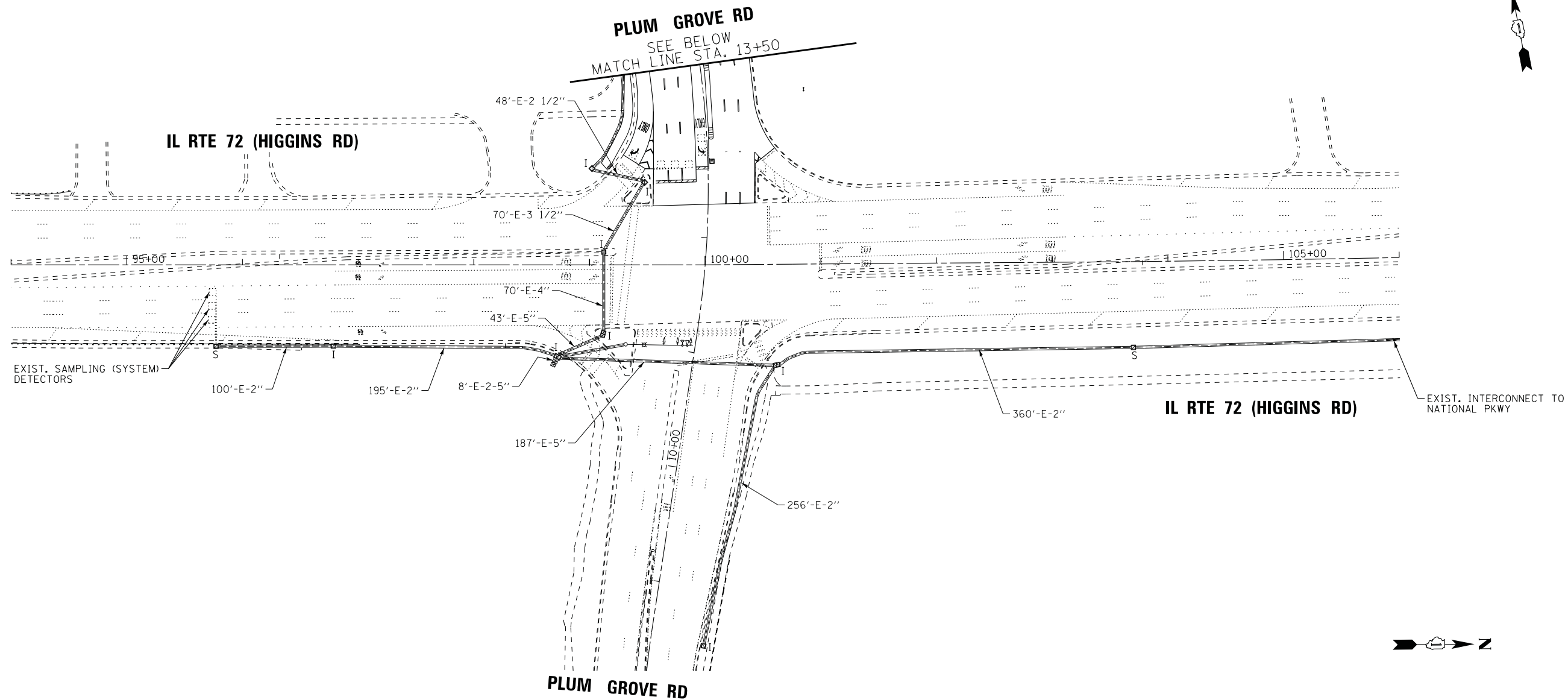
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC
 IL RTE 72 (HIGGINS RD) - PLUM GROVE RD TO I-290/I 53 NB RAMP AND FRONTAGE RD
 PLUM GROVE RD - IL RTE 72 (HIGGINS RD) TO WOODFIELD RD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	135
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

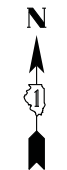
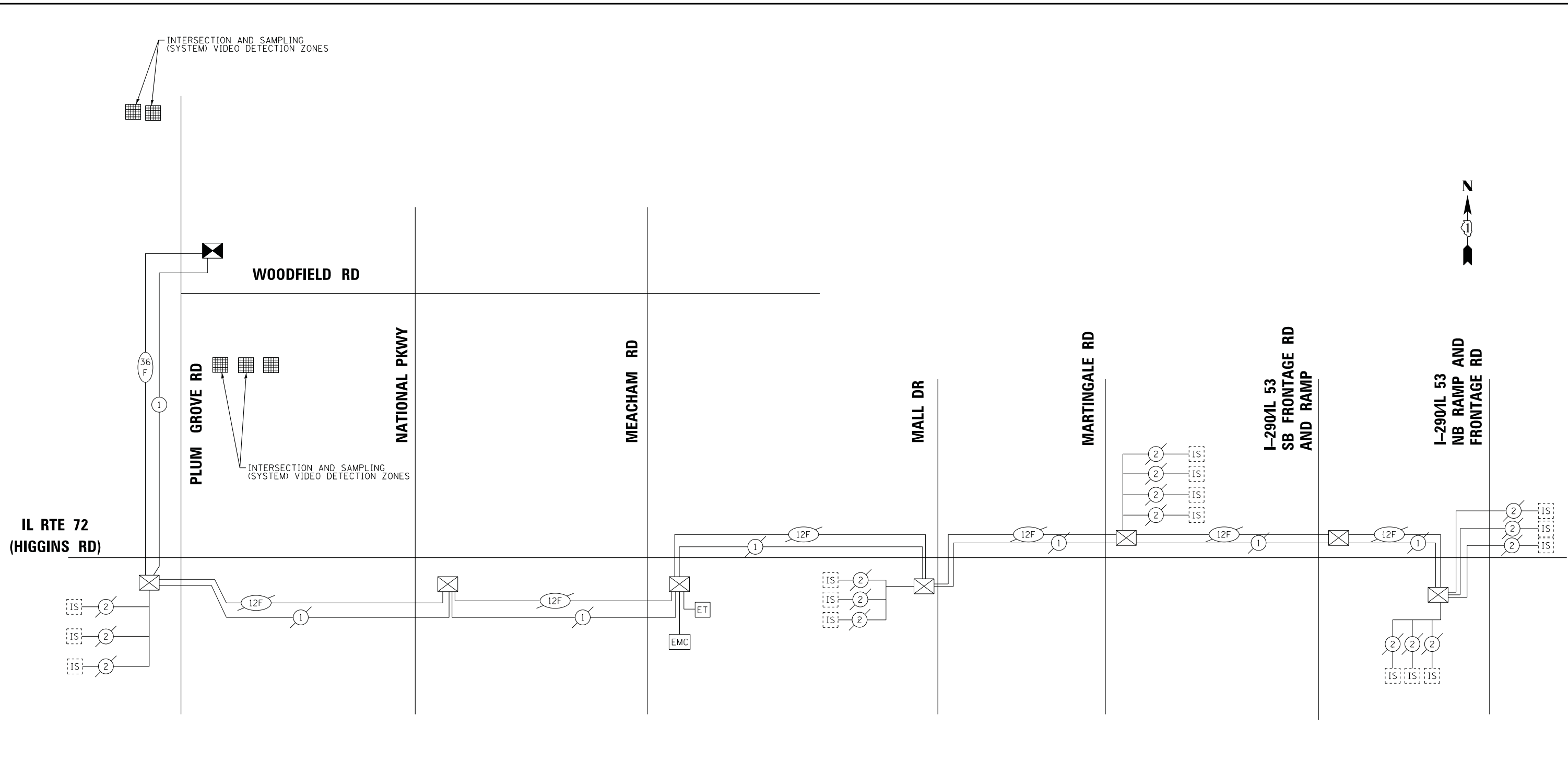
PROPOSED INTERCONNECT PLAN
PLUM GROVE RD -
IL RTE 72 (HIGGINS RD) TO WOODFIELD RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	136
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

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SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	115
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,197
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,141
ROD AND CLEAN EXISTING CONDUIT	FOOT	684
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,197
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1



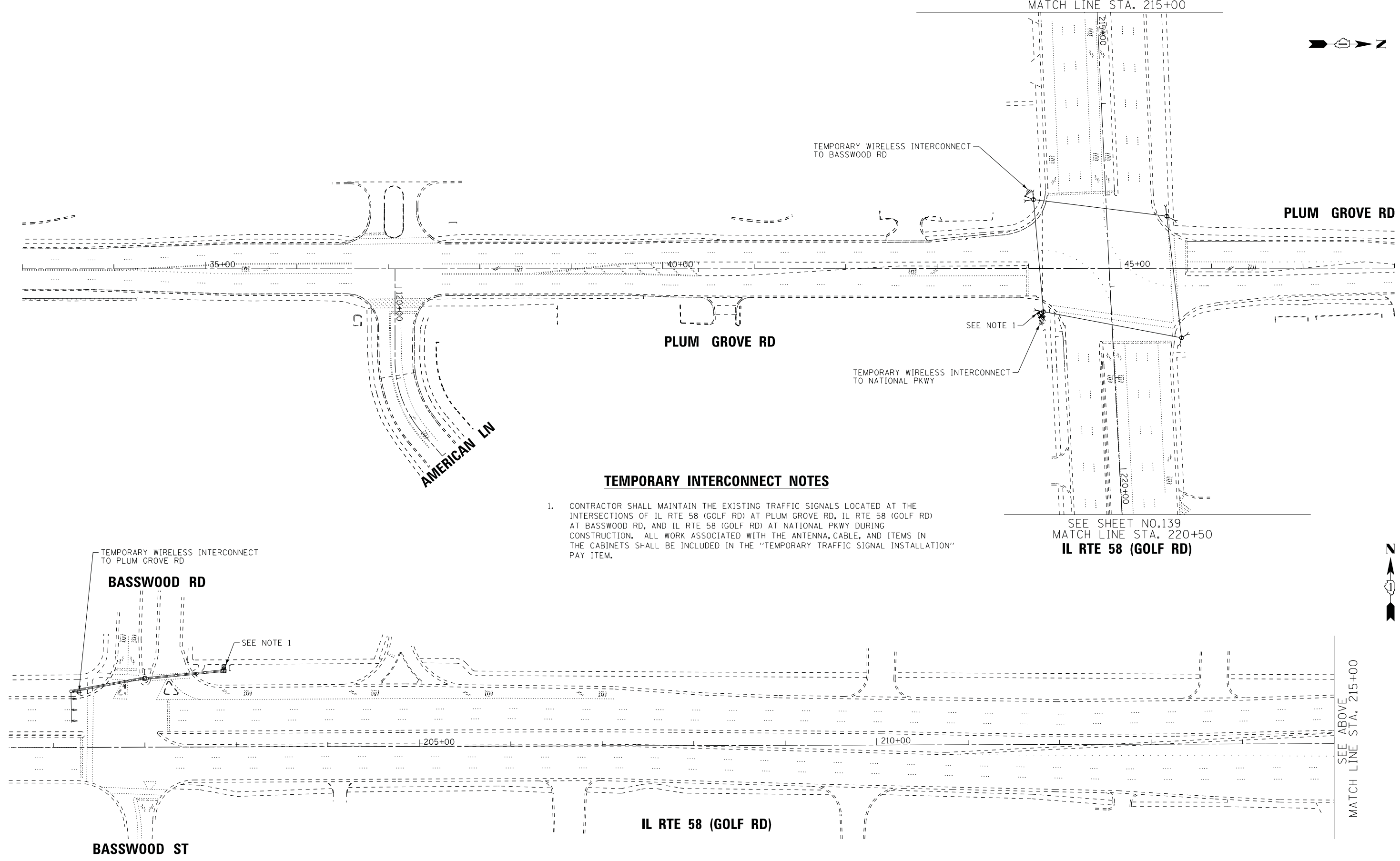
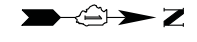
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
 IL RTE 72 (HIGGINS RD) - PLUM GROVE RD TO I-290/I 53 NB RAMP AND FRONTAGE RD
 PLUM GROVE RD - IL RTE 72 (HIGGINS RD) TO WOODFIELD RD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	137
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

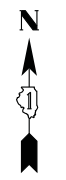
IL RTE 58 (GOLF RD)
SEE BELOW RIGHT
MATCH LINE STA. 215+00



TEMPORARY INTERCONNECT NOTES

- CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS LOCATED AT THE INTERSECTIONS OF IL RTE 58 (GOLF RD) AT PLUM GROVE RD, IL RTE 58 (GOLF RD) AT BASSWOOD RD, AND IL RTE 58 (GOLF RD) AT NATIONAL PKWY 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.

SEE SHEET NO.139
MATCH LINE STA. 220+50
IL RTE 58 (GOLF RD)



SEE ABOVE
MATCH LINE STA. 215+00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 2)
IL RTE 58 (GOLF RD) -
BASSWOOD RD TO PLUM GROVE RD

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	138
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

ECON 78



SEE SHEET NO. 138
MATCH LINE STA. 220+50

SEE BELOW LEFT
MATCH LINE STA. 235+50

IL RTE 58 (GOLF RD)

TEMPORARY INTERCONNECT NOTES

1. CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS LOCATED AT THE INTERSECTIONS OF IL RTE 58 (GOLF RD) AT PLUM GROVE RD, IL RTE 58 (GOLF RD) AT BASSWOOD RD, AND IL RTE 58 (GOLF RD) AT NATIONAL PKWY 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.



SEE ABOVE RIGHT
MATCH LINE STA. 235+50

IL RTE 58 (GOLF RD)

NATIONAL PRKWY

TEMPORARY WIRELESS INTERCONNECT
TO PLUM GROVE RD

SEE NOTE 1

NATIONAL PRKWY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 2)
IL RTE 58 (GOLF RD) -
PLUM GROVE RD TO NATIONAL PKWY

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	139
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

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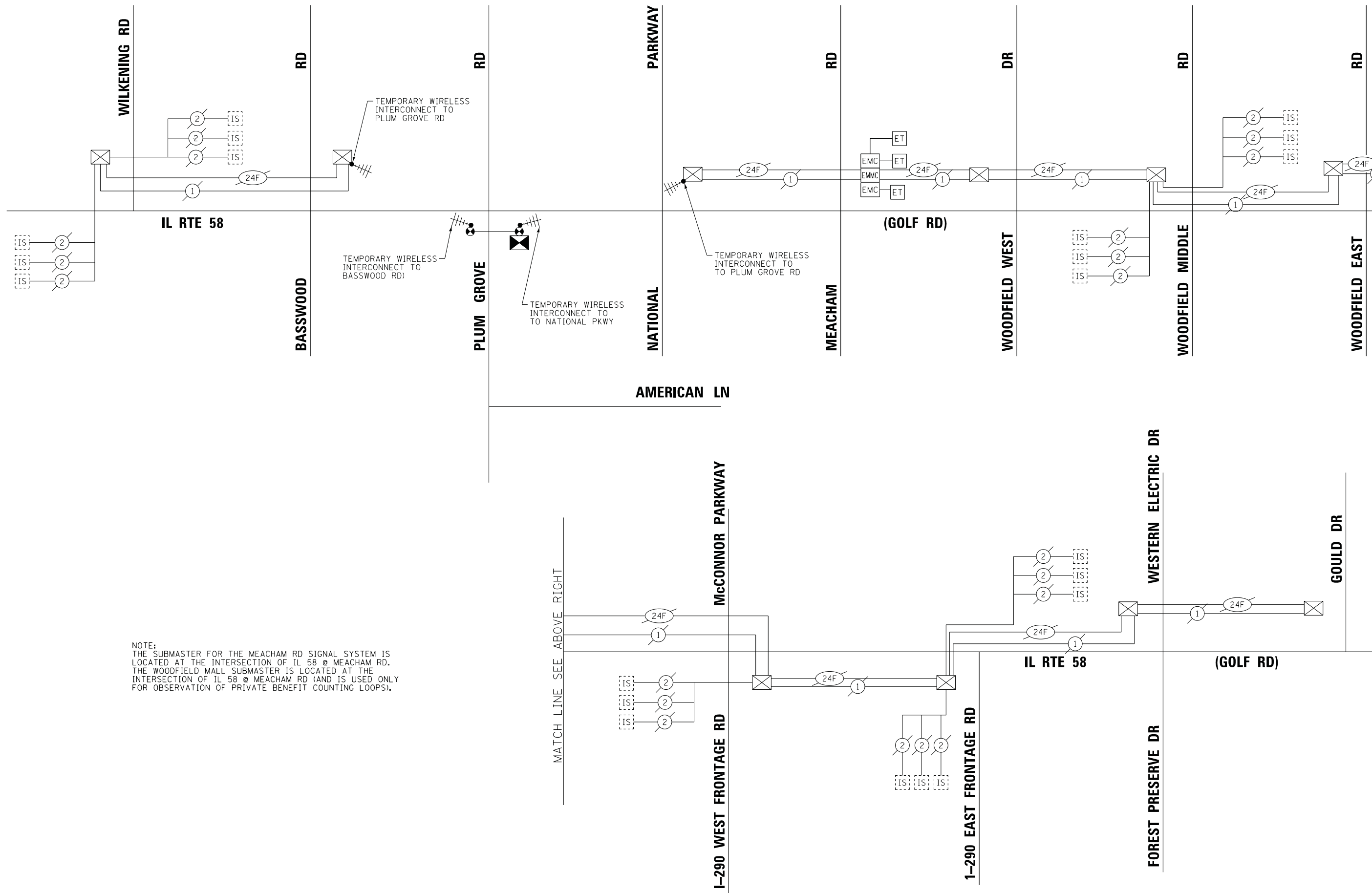
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
 IL RTE 58 (GOLF RD) -
 WILKENING RD TO GOULD DR

SCALE: STA. TO STA.

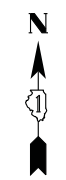
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	

ECON 78



NOTE:
 THE SUBMASTER FOR THE MEACHAM RD SIGNAL SYSTEM IS LOCATED AT THE INTERSECTION OF IL 58 @ MEACHAM RD. THE WOODFIELD MALL SUBMASTER IS LOCATED AT THE INTERSECTION OF IL 58 @ MEACHAM RD (AND IS USED ONLY FOR OBSERVATION OF PRIVATE BENEFIT COUNTING LOOPS).

MATCH LINE SEE BELOW LEFT



SEE BELOW RIGHT
MATCH LINE STA. 47+00

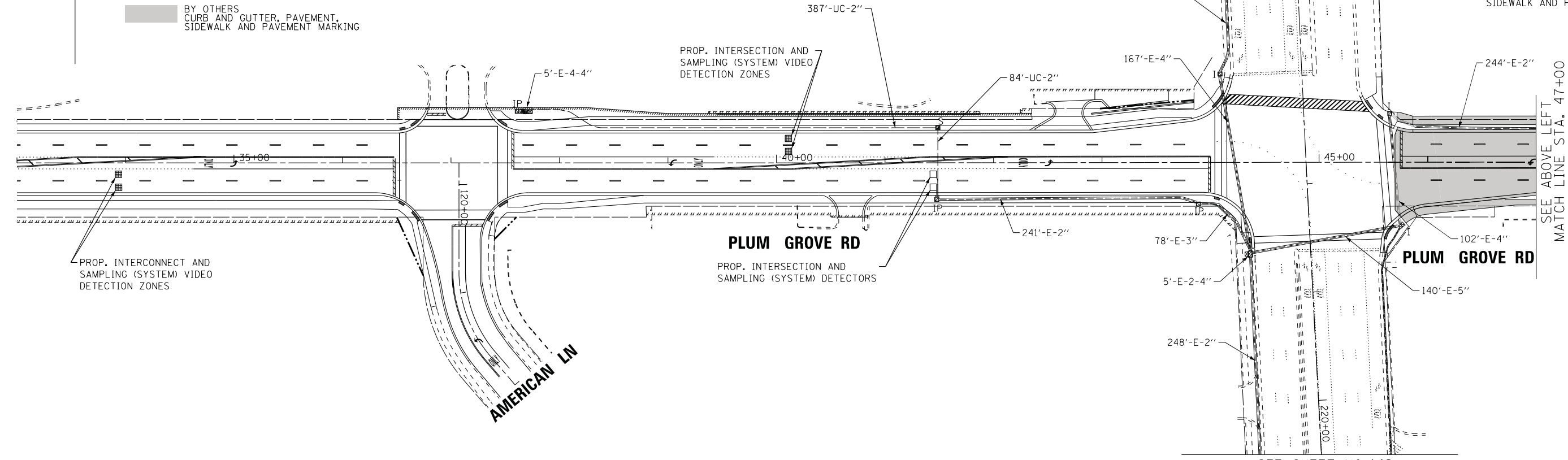
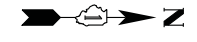
PLUM GROVE RD

BY OTHERS
CURB AND GUTTER, PAVEMENT,
SIDEWALK AND PAVEMENT MARKING

PROPOSED INTERSECTION AND
SAMPLING (SYSTEM) DETECTORS

IL RTE 58 (GOLF RD)
SEE BELOW RIGHT
MATCH LINE STA. 215+00

BY OTHERS
CURB AND GUTTER, PAVEMENT,
SIDEWALK AND PAVEMENT MARKING



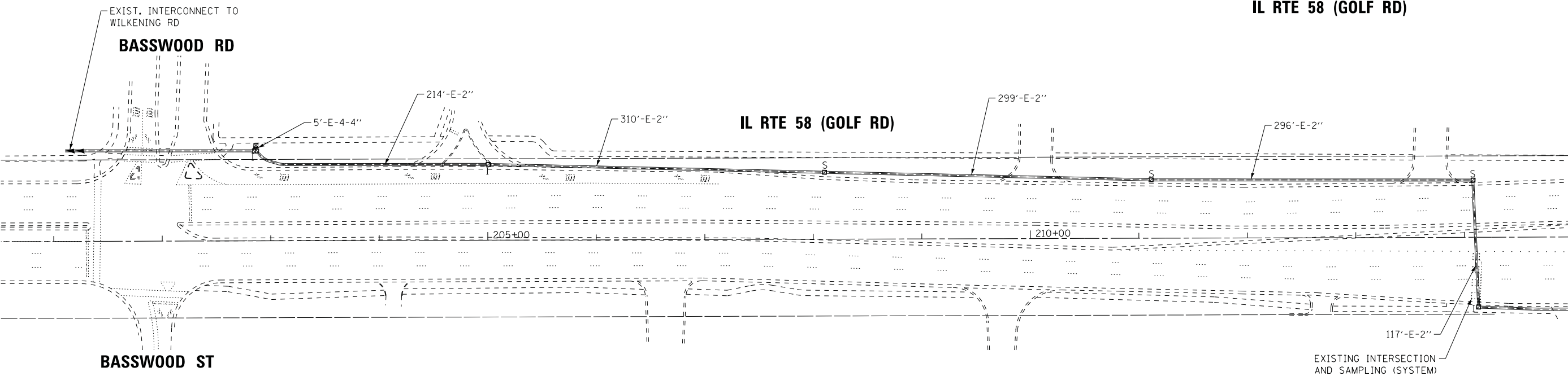
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MATCH LINE STA. 47+00

SEE SHEET NO.142
MATCH LINE STA. 220+50
IL RTE 58 (GOLF RD)

BASSWOOD RD

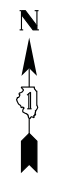
EXIST. INTERCONNECT TO
WILKENING RD

IL RTE 58 (GOLF RD)



BASSWOOD ST

SEE ABOVE
MATCH LINE STA. 215+00



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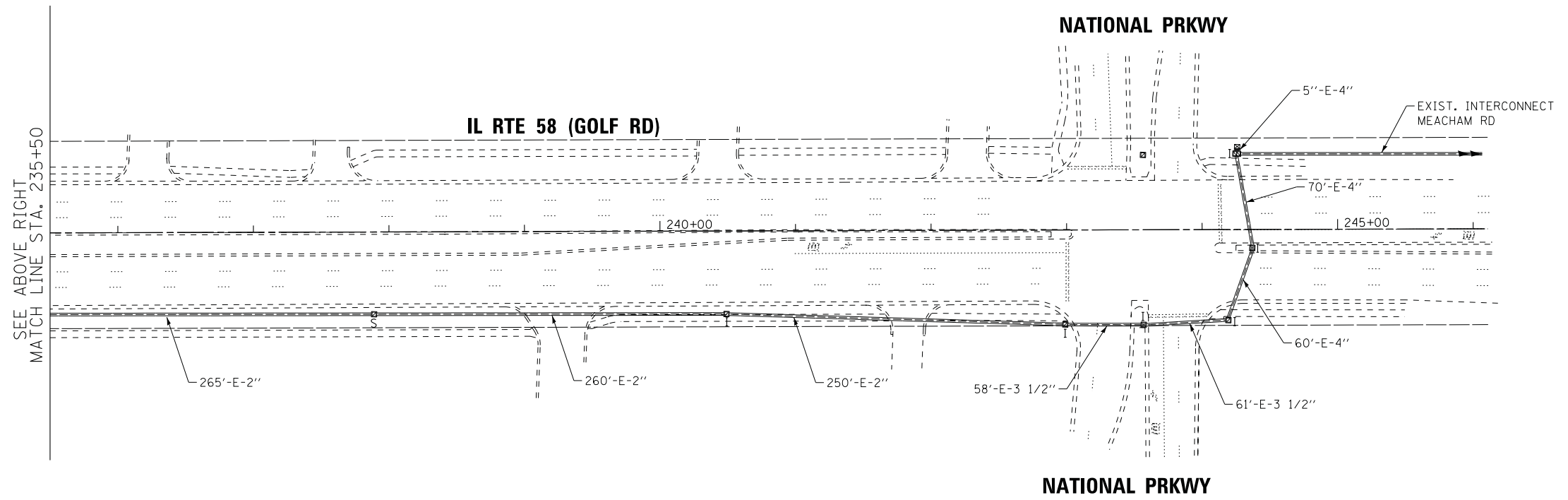
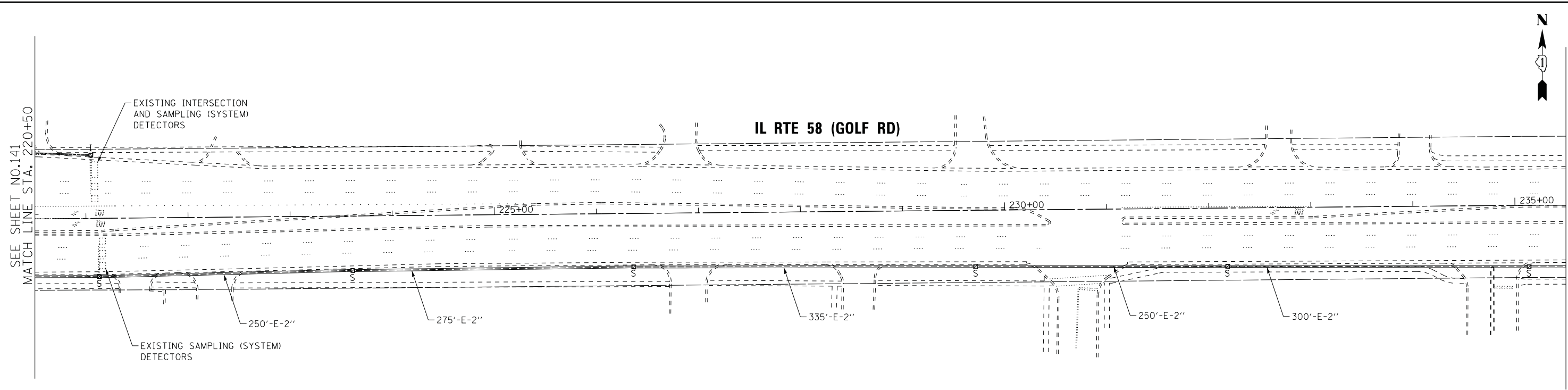
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 2)
PLUM GROVE RD - FROM AMERICAN LN TO IL RTE 58 (GOLF RD)
IL RTE 58 (GOLF RD) - BASSWOOD RD TO PLUM GROVE RD
SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	141
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 2 OF 2)
 IL RTE 58 (GOLF RD) - PLUM GROVE RD TO NATIONAL PKWY

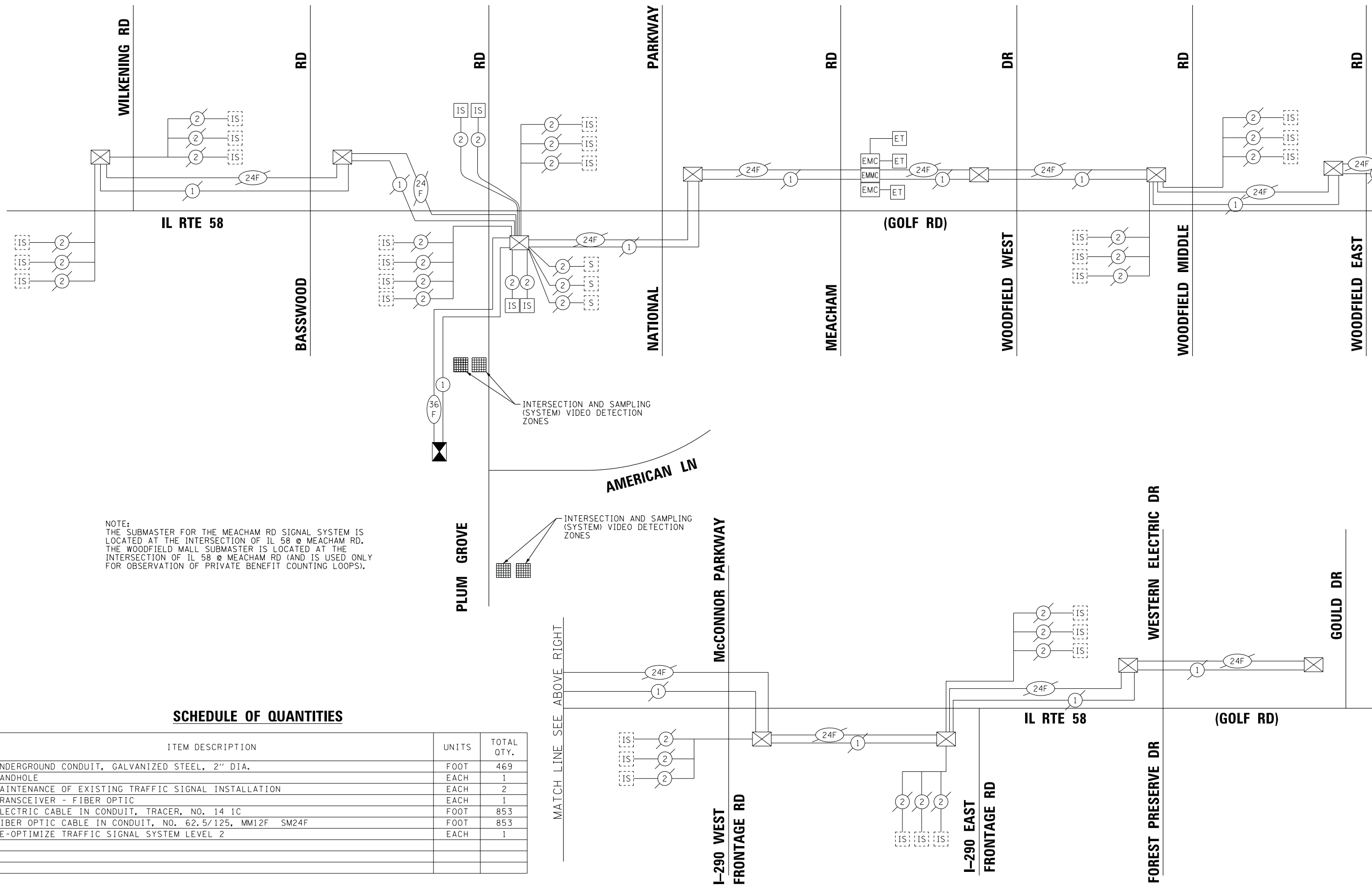
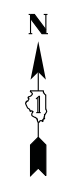
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	142
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

ECON 78



MATCH LINE SEE BELOW LEFT



NOTE:
 THE SUBMASTER FOR THE MEACHAM RD SIGNAL SYSTEM IS LOCATED AT THE INTERSECTION OF IL 58 @ MEACHAM RD. THE WOODFIELD MALL SUBMASTER IS LOCATED AT THE INTERSECTION OF IL 58 @ MEACHAM RD (AND IS USED ONLY FOR OBSERVATION OF PRIVATE BENEFIT COUNTING LOOPS).

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	469
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	853
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	853
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

MATCH LINE SEE ABOVE RIGHT

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
 IL RTE 58 (GOLF RD) - WILKENING RD TO GOULD DR
 PLUM GROVE RD - AMERICAN LN TO IL 58 (GOLF RD)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	143
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

ECON 78

LIGHTING GENERAL NOTES:

1. FIELD ADJUSTMENT OF LIGHTING UNIT LOCATIONS TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER AND COORDINATED WITH THE VILLAGE.
2. CARE SHALL BE TAKEN TO AVOID DAMAGE TO 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 ADDITIONAL COST.
3. 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.
4. ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
5. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
6. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
7. CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
8. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE GROUND ROD CLAMPS, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE VILLAGE AND/OR ENGINEER PRIOR TO BACKFILLING.
9. 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.
10. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
11. ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS IN TRENCHES SHALL BE INSTALLED BEFORE PAVEMENT IS PLACED OR BORED/DIRECTIONALLY DRILLED. PAVEMENT CUTTING/PATCHING IS NOT PERMITTED. CONDUIT LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LENGTH REQUIREMENTS IN THE FIELD.
12. NO UNDERGROUND SPLICES OR SPLICES IN HANDHOLES WILL BE PERMITTED. ELECTRIC HANDHOLES, IF USED, SHALL BE USED FOR THE PURPOSE OF PULLING CABLES ONLY.
13. LIGHTING UNIT SETBACK SHALL BE AS CALLED OUT ON PLANS.
14. ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.
15. REMOVE AND SALVAGE ALL WIRE/CABLE ASSOCIATED WITH THE LIGHTING UNITS BEING REMOVED. CONTACT VILLAGE ECS FOREMAN (DAVE HELLMER 847-923-6632) TO COORDINATE DELIVERY OF SALVAGED WIRE/CABLE TO THE VILLAGE PUBLIC WORKS FACILITY AT 714 PLUM GROVE ROAD FOR RECYCLING.

SUMMARY OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1111
81603096	UNIT DUCT, 600V, 4-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	5987
81603800	UNIT DUCT, 600V, 8-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	90
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NC. 10	FOOT	2,430
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
83008200	LIGHT POLE, ALUMINUM, 40 FT. M.H., 6 FT. MAST ARM	EACH	20
83008500	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM	EACH	1
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	21
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6"	EACH	21
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	13
84200804	REMOVAL OF POLE FOUNDATION	EACH	13
X0325815	REMOVE EXISTING CABLE	FOOT	2,375
X1400113	LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	29
X1400147	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP - TYPE TC) 2/C NO.10 AND NO.10 GROUND	FOOT	1075
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	2
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	36
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	29
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	10

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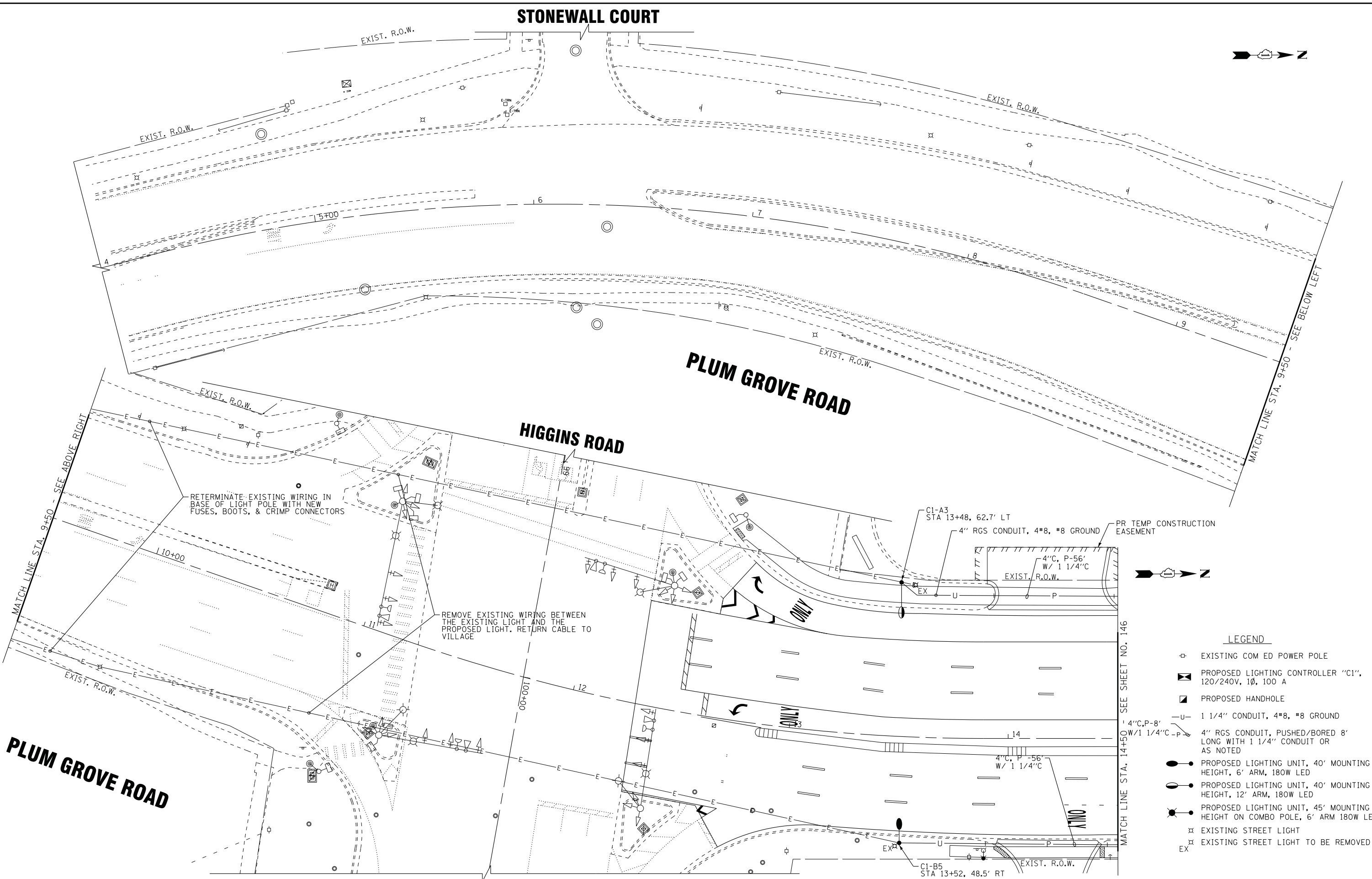
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREET LIGHTING DETAILS AND SUMMARY OF QUANTITIES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2582	14-00115-00-PV	COOK	199	144
SCALE:		STA.		TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

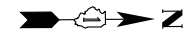
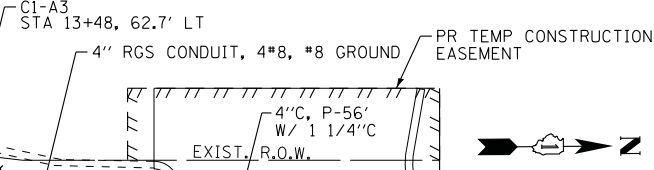
CONTRACT NO. 61E29

STONEWALL COURT



RETERMINATE EXISTING WIRING IN BASE OF LIGHT POLE WITH NEW FUSES, BOOTS, & CRIMP CONNECTORS

REMOVE EXISTING WIRING BETWEEN THE EXISTING LIGHT AND THE PROPOSED LIGHT. RETURN CABLE TO VILLAGE



LEGEND

- ⊕ EXISTING COM ED POWER POLE
- ⊠ PROPOSED LIGHTING CONTROLLER "C1", 120/240V, 1Ø, 100 A
- ⊠ PROPOSED HANDHOLE
- U— 1 1/4" CONDUIT, 4*8, #8 GROUND
- P— 4" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 6' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 12' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT ON COMBO POLE, 6' ARM 180W LED
- ⊗ EXISTING STREET LIGHT
- EX ⊗ EXISTING STREET LIGHT TO BE REMOVED

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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PLUM GROVE ROAD



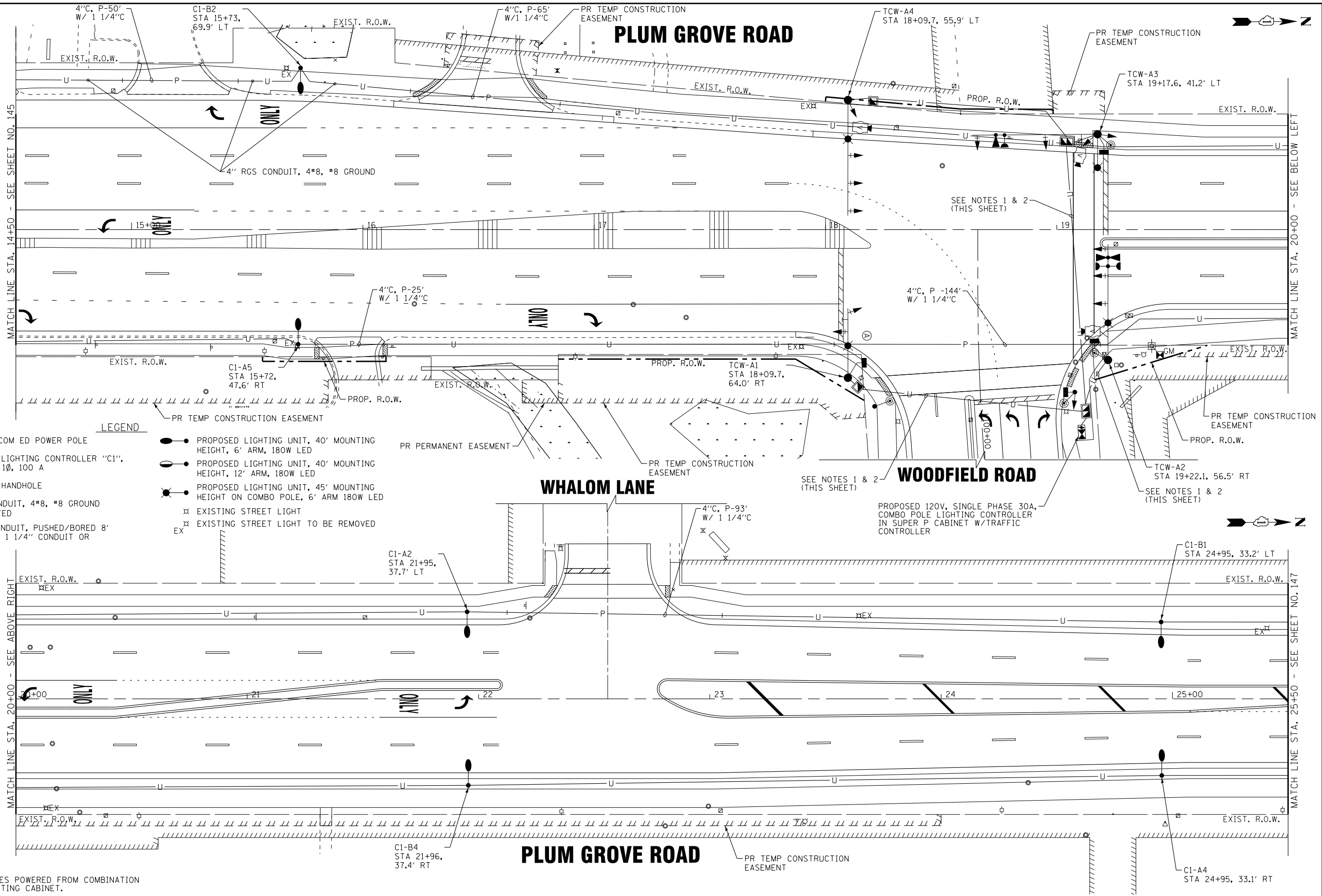
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DATE - 10-9-17	FILE - 150615-SHT-SL1.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN
PLUM GROVE ROAD**

SCALE: 1" = 20' STA. 4+00 TO STA. 14+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	145
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT C-91-060-16				



- LEGEND**
- ⊕ EXISTING COM ED POWER POLE
 - ⊠ PROPOSED LIGHTING CONTROLLER "C1", 120/240V, 10, 100 A
 - ⊠ PROPOSED HANDHOLE
 - U— 1 1/4" CONDUIT, 4#8, #8 GROUND OR AS NOTED
 - 4"C,P-8' W/1 1/4"C ⊠ P— 4" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
 - PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 6' ARM, 180W LED
 - PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 12' ARM, 180W LED
 - PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT ON COMBO POLE, 6' ARM 180W LED
 - ⊗ EXISTING STREET LIGHT
 - ⊗ EXISTING STREET LIGHT TO BE REMOVED
 - PR TEMP CONSTRUCTION EASEMENT
 - PR PERMANENT EASEMENT
 - PR TEMP CONSTRUCTION EASEMENT

- NOTES:**
- COMBO POLE LUMIAIRES POWERED FROM COMBINATION TRAFFIC SIGNAL/LIGHTING CABINET.
 - ELECTRIC CABLE ASSEMBLY, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND, ROUTED IN TRAFFIC SIGNAL CONDUITS.

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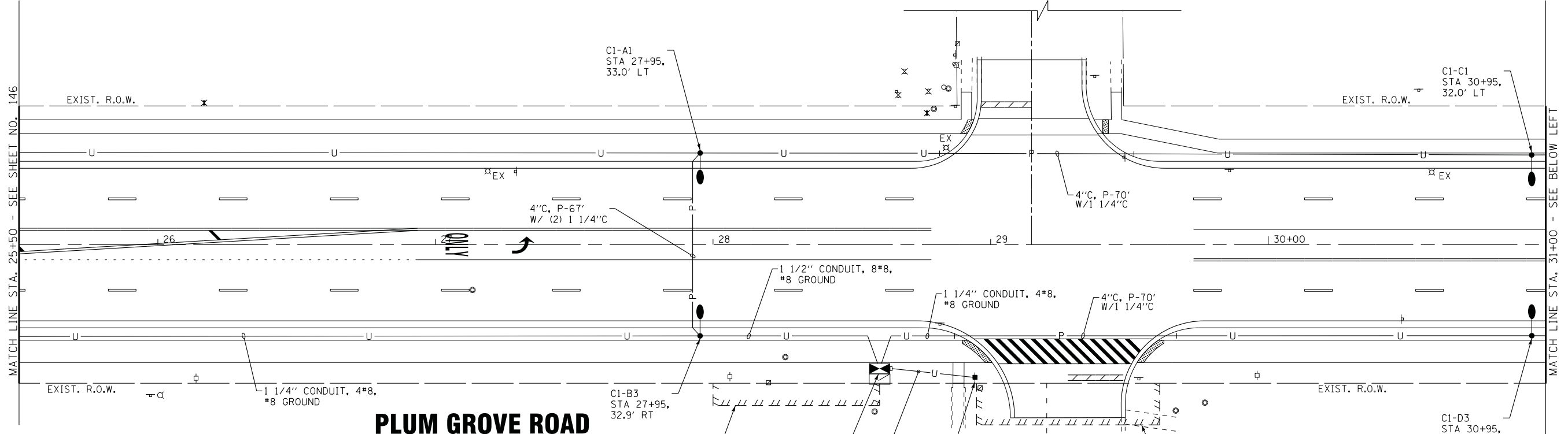
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN
PLUM GROVE ROAD**

SCALE: 1" = 20' STA. 14+50 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	146
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

STURNBRIDGE LANE



PLUM GROVE ROAD

WOODFIELD OFFICE COURT

PLUM GROVE ROAD

LEGEND

- ⊕ EXISTING COM ED POWER POLE
- ⊠ PROPOSED LIGHTING CONTROLLER "C1", 120/240V, 1Ø, 100 A
- ⊠ PROPOSED HANDHOLE
- U— 1 1/4" CONDUIT, 4*8, #8 GROUND
- 4"C,P-8' W/1 1/4"C } 4" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 6' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 12' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT ON COMBO POLE, 6' ARM 180W LED
- ⊗ EXISTING STREET LIGHT
- ⊗ EXISTING STREET LIGHT TO BE REMOVED
- PR TEMP CONSTRUCTION EASEMENT

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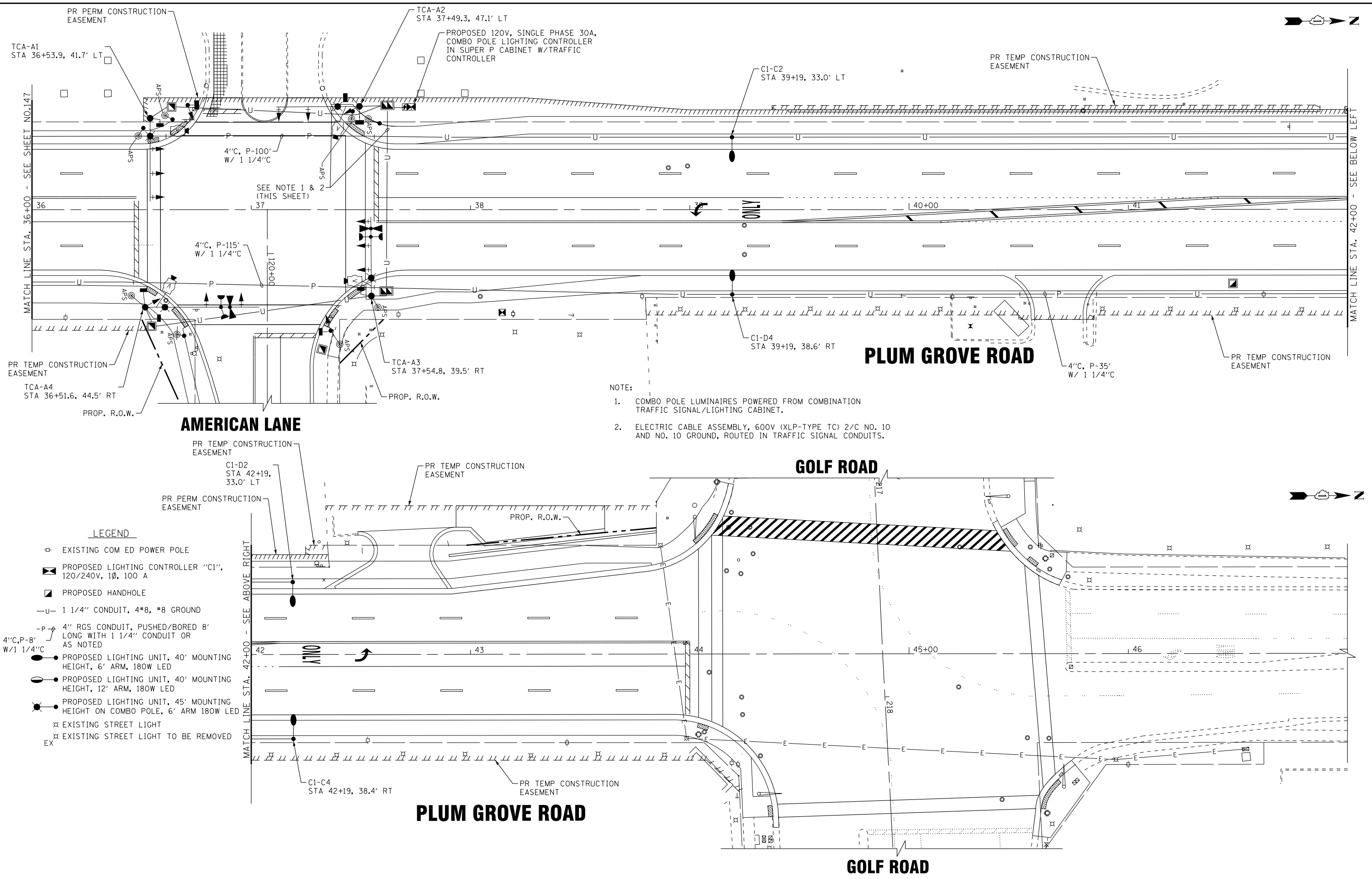
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN
PLUM GROVE ROAD**

SCALE: 1" = 20' STA. 25+50 TO STA. 36+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	147
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



- NOTE:
1. COMBO POLE LUMINAIRES POWERED FROM COMBINATION TRAFFIC SIGNAL/LIGHTING CABINET.
 2. ELECTRIC CABLE ASSEMBLY, 600V (XLP-TYPE TC) 2/C NO. 10 AND NO. 10 GROUND, ROUTED IN TRAFFIC SIGNAL CONDUITS.

LEGEND

- ⊕ EXISTING COM ED POWER POLE
- ⊠ PROPOSED LIGHTING CONTROLLER "C1", 120/240V, 1Ø, 100 A
- ⊠ PROPOSED HANDHOLE
- U— 1 1/4" CONDUIT, 4*8, #8 GROUND
- P— 4" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 6' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 12' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT ON COMBO POLE, 6' ARM 180W LED
- ⊗ EXISTING STREET LIGHT
- ⊗ EX EXISTING STREET LIGHT TO BE REMOVED

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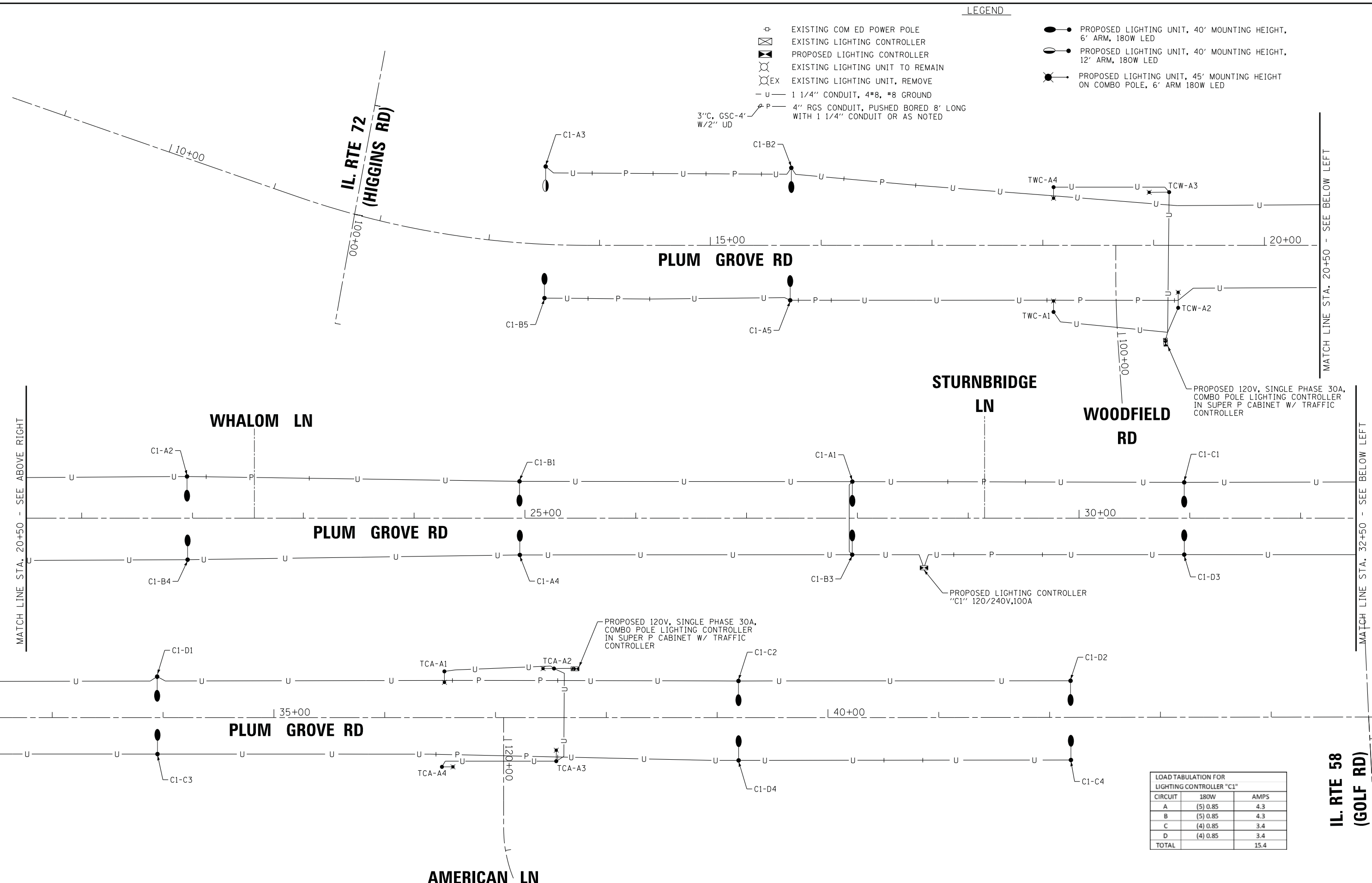
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STREET LIGHTING PLAN
PLUM GROVE ROAD**

SCALE: 1" = 20' STA. 36+00 TO STA. 47+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	148
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT C-91-060-16				

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- LEGEND**
- ⊕ EXISTING COM ED POWER POLE
 - ⊗ EXISTING LIGHTING CONTROLLER
 - ⊗ EXISTING LIGHTING UNIT TO REMAIN
 - ⊗ EX EXISTING LIGHTING UNIT, REMOVE
 - U 1 1/4" CONDUIT, 4#8, #8 GROUND
 - P 4" RGS CONDUIT, PUSHED BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
 - PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 6' ARM, 180W LED
 - PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 12' ARM, 180W LED
 - PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT ON COMBO POLE, 6' ARM 180W LED

LOAD TABULATION FOR LIGHTING CONTROLLER "C1"

CIRCUIT	180W	AMPS
A	(5) 0.85	4.3
B	(5) 0.85	4.3
C	(4) 0.85	3.4
D	(4) 0.85	3.4
TOTAL		15.4

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DATE - 10-9-17	FILE - 150615-SHT-SL-1-Single Diagram.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STREET LIGHTING - SINGLE LINE DIAGRAM
 PLUM GROVE ROAD

SCALE: NONE STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	149
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	

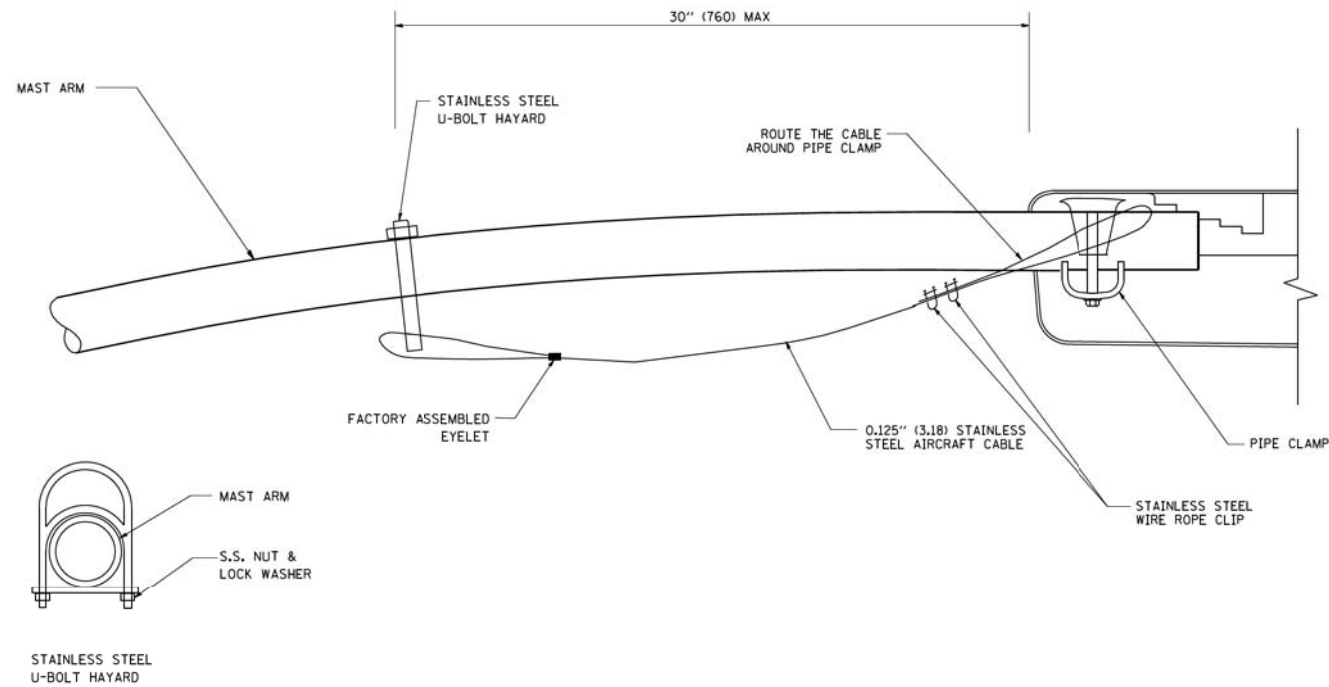
IL. RTE 58
 (GOLF RD)

MATCH LINE STA. 20+50 - SEE ABOVE RIGHT

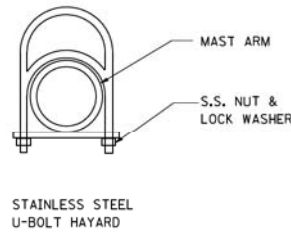
MATCH LINE STA. 32+50 - SEE ABOVE RIGHT

MATCH LINE STA. 20+50 - SEE BELOW LEFT

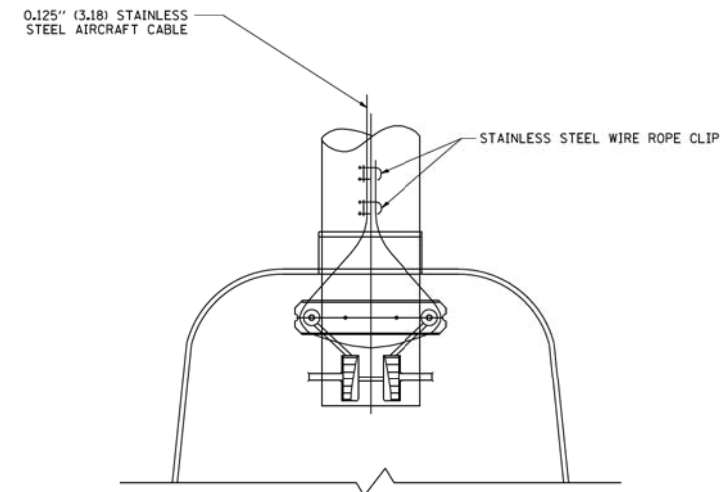
MATCH LINE STA. 32+50 - SEE BELOW LEFT



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



STAINLESS STEEL U-BOLT HAYARD



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.

PROPOSED IDOT COMBINATION LIGHTING, TRAFFIC SIGNAL CONTROLLER

LOAD TABULATION FOR IDOT COMBINATION LIGHTING CONTROLLER "TCA"		
CIRCUIT	220W	AMPS
A	(2) 2.0	4.0
B	(2) 2.0	4.0
TOTAL		8.0

TCA-A1

TCA-A2

TCA-A3

TCA-A4

PLUM GROVE RD

AMERICAN LN



LEGEND

- ⊕ EXISTING COM ED POWER POLE
- ⊠ PROPOSED LIGHTING CONTROLLER "C1", 120/240V, 1Ø, 100 A
- ⊠ PROPOSED HANDHOLE
- U— 1 1/4" CONDUIT, 4#8, #8 GROUND
- 4"C,P-8' W/1 1/4"C } 4" RGS CONDUIT, PUSHED/BORED 8' LONG WITH 1 1/4" CONDUIT OR AS NOTED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 6' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 40' MOUNTING HEIGHT, 12' ARM, 180W LED
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT ON COMBO POLE, 180W LED
- ⊗ EXISTING STREET LIGHT
- ⊗ EXISTING STREET LIGHT TO BE REMOVED

TCW-A3

TCW-A4

TCW-A2

TCW-A1

PROPOSED IDOT COMBINATION LIGHTING, TRAFFIC SIGNAL CONTROLLER

PLUM GROVE RD

WOODFIELD RD



LOAD TABULATION FOR IDOT COMBINATION LIGHTING CONTROLLER "TCW"		
CIRCUIT	183W	AMPS
A	(2) 1.7	3.4
B	(2) 1.7	3.4
TOTAL		6.8

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

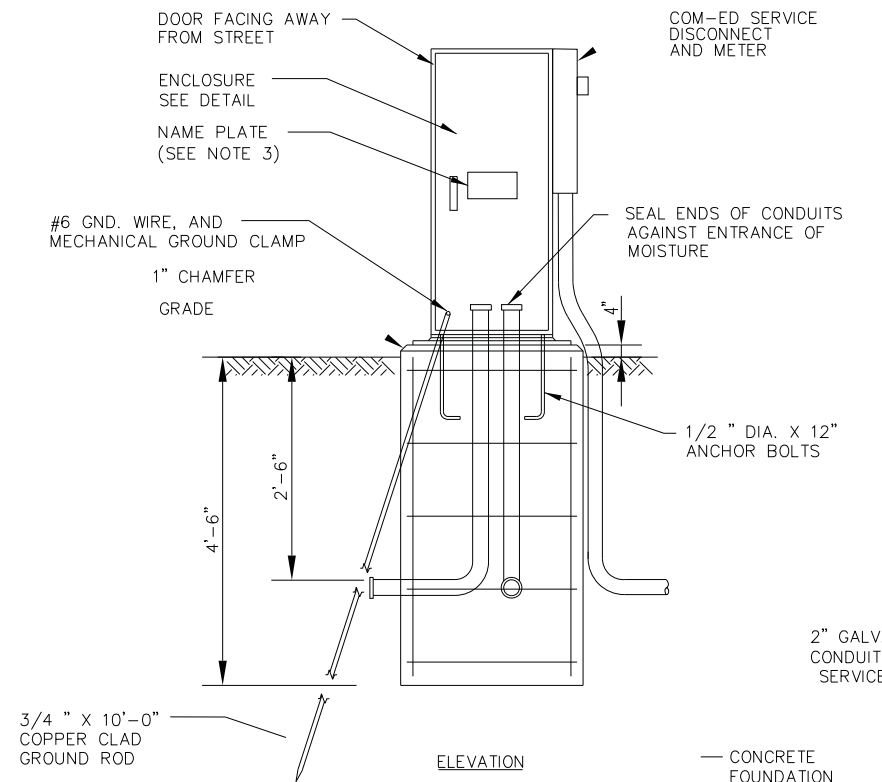
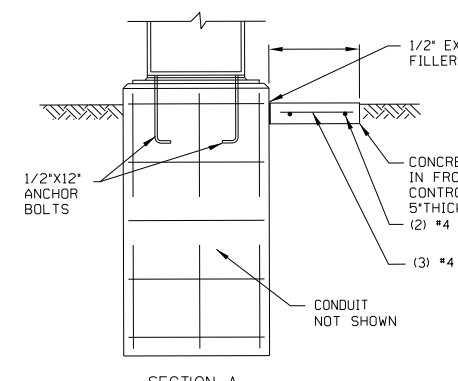
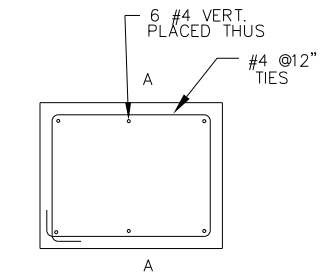
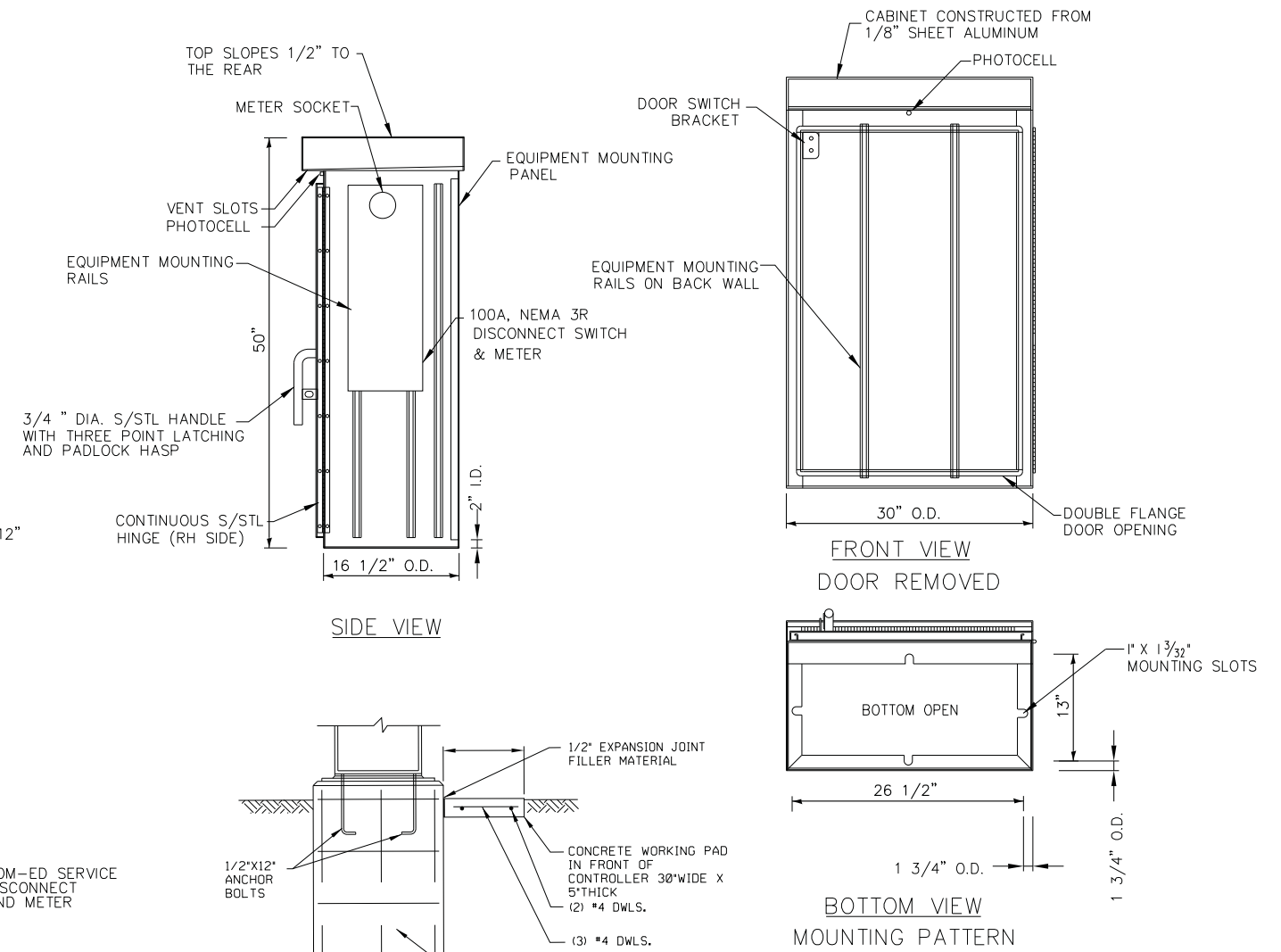
STREET LIGHTING DETAILS

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

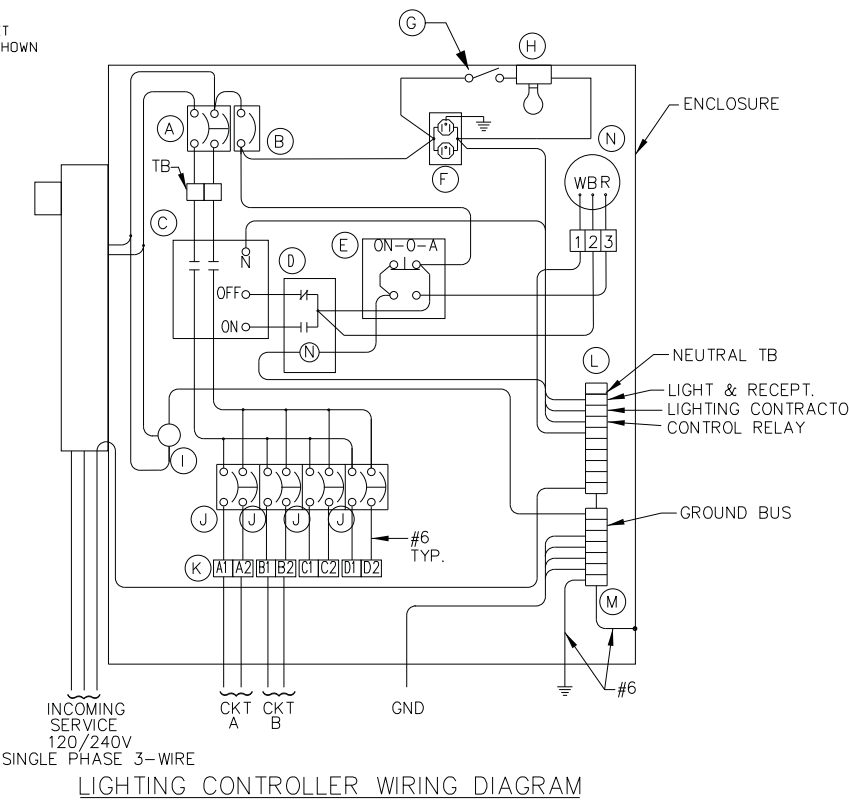
NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY WITH NEMA 3R RATING.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH HIGH LETTERS FILLED IN BLACK: "STREET LIGHTING".
- CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED".
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508, AND SHOULD BE SERVICE ENTRANCE RATED.
- METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
- ALL LUGS SHALL BE COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- ALL POWER WIRING SHALL BE 600V TYPE RHH-/RHW.
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



LIGHTING CONTROLLER AND FOUNDATION DETAIL

NOTE: INSTALL (2) SPARE 2" CONDUITS STUBBED OUT AND CAPPED 18" BEYOND FOUNDATION



ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, SQUARE D, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 100A., BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 22,000 RMS SYMMETRICAL AMPERES AT 240 V.
B	1	BRANCH CIRCUIT BREAKER, SQUARE D, MOLDED CASE, THERMAL MAGNETIC 1-POLE, 120 V., 20A, BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 10,000 RMS SYMETRICAL AMPERES AT 120 V.
C	1	LIGHTING CONTACTOR ELECTRICALLY HELD, SQUARE D, 8903SQ01V02, 100A, 2-POLE, 600 V. WITH 120 V. COIL.
D	1	CONTROL RELAY CUTLER HAMMER D3PR2 RATED 12 A. AT 120 VAC
E	1	ON-OFF-AUTO 3-POSITION SELECTOR SWITCH GE CR104P HEAVY DUTY SWITCH, RATED FOR 10 A. AT 600 VAC.
F	1	GFCI RECEPTACLE, 120 V., 20 A. SPEC. GRADE, NEMA CONFIG. 5-20R.
G	1	SPDT MOMENTARY NORMALLY OPEN, NORMALLY CLOSED PUSH BUTTON SWITCH CUTLER HAMMER 84F1063 RATED 15 A. AT 120 V.
H	1	60 WATT LIGHT FIXTURE, RAB, VAPOR TIGHT, WITH GLOBE, GUARD AND MOUNTING BOX.
I	1	SECONDARY SURGE ARRESTER SQUARE D SDSA1175, 175 VAC PHASE-TO-GROUND MAXIMUM.
J	4	BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 30A, TRIP INTERRUPTING RATING 10,000 RMS SYMMETRICAL AMPERES AT 240 V.
K	8	TERMINAL BLOCK RATED 600 V., 85 A.
L	1	COPPER NEUTRAL BUS.
M	1	COPPER GROUND BUS.
N	1	PHOTOCELL-120V, BUTTON STYLE, DELAY TYPE, SPST

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BAXTER & WOODMAN
 Consulting Engineers

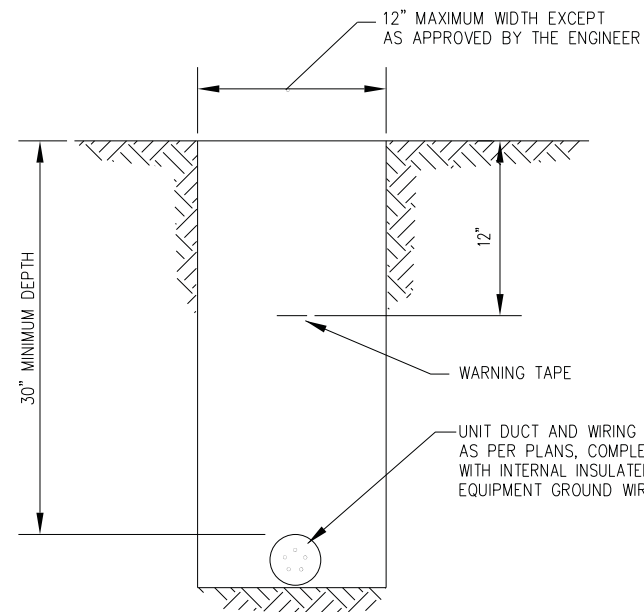
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CHECKED - MWH	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STREET LIGHTING DETAILS

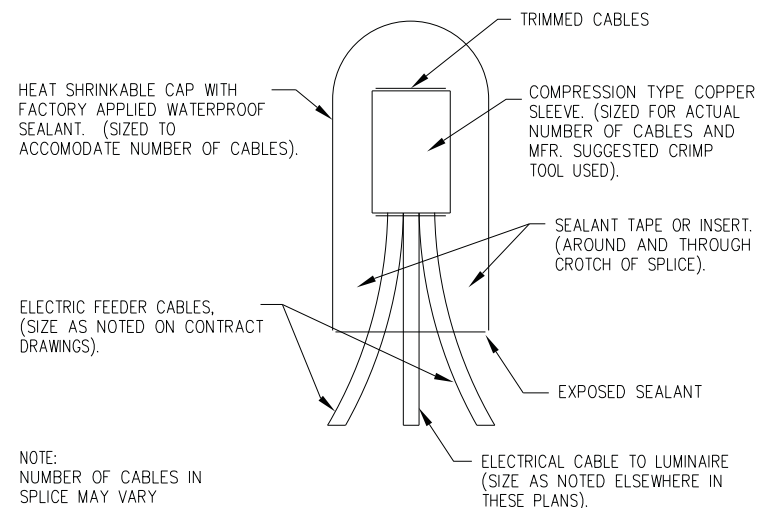
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	



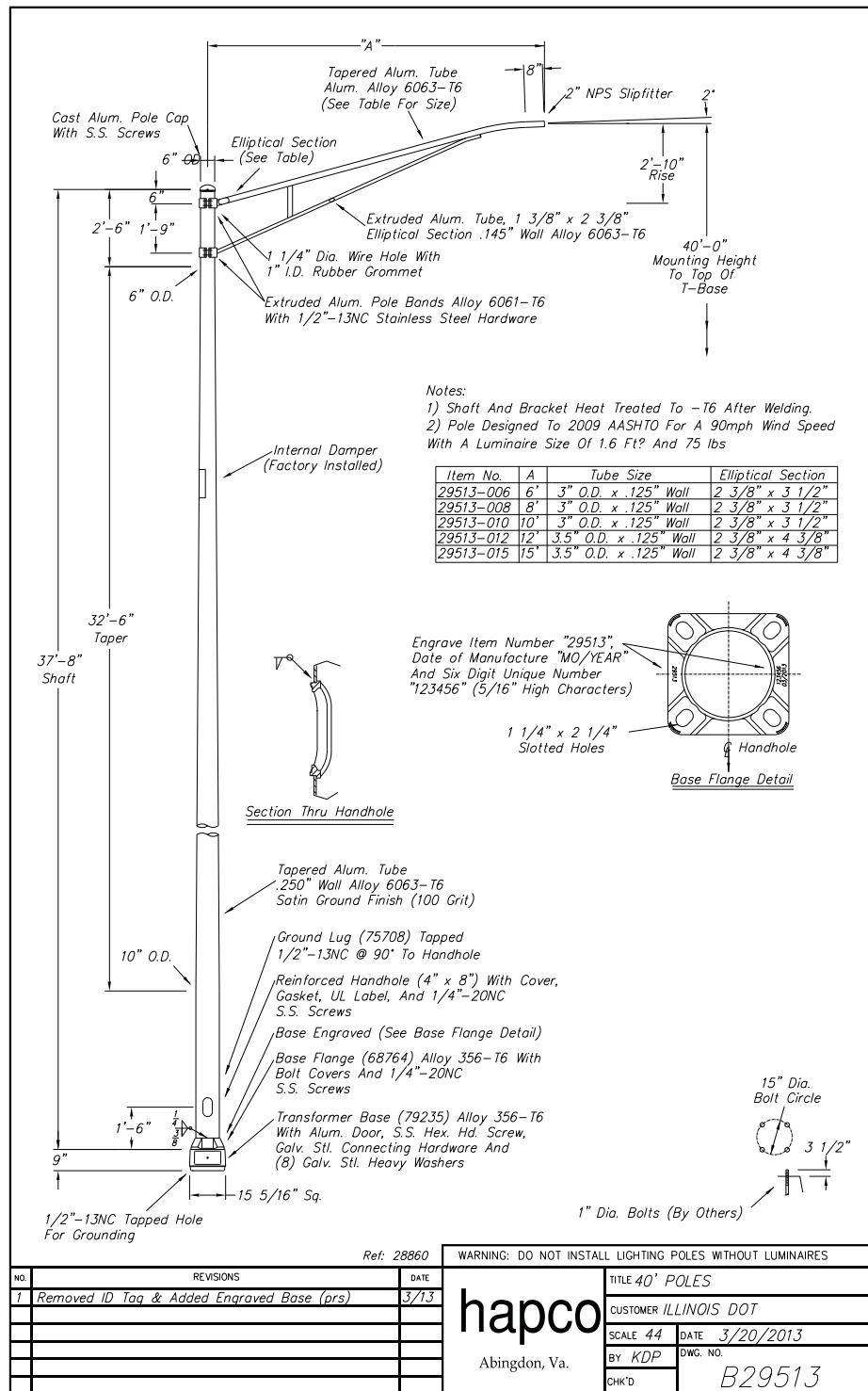
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NO SCALE

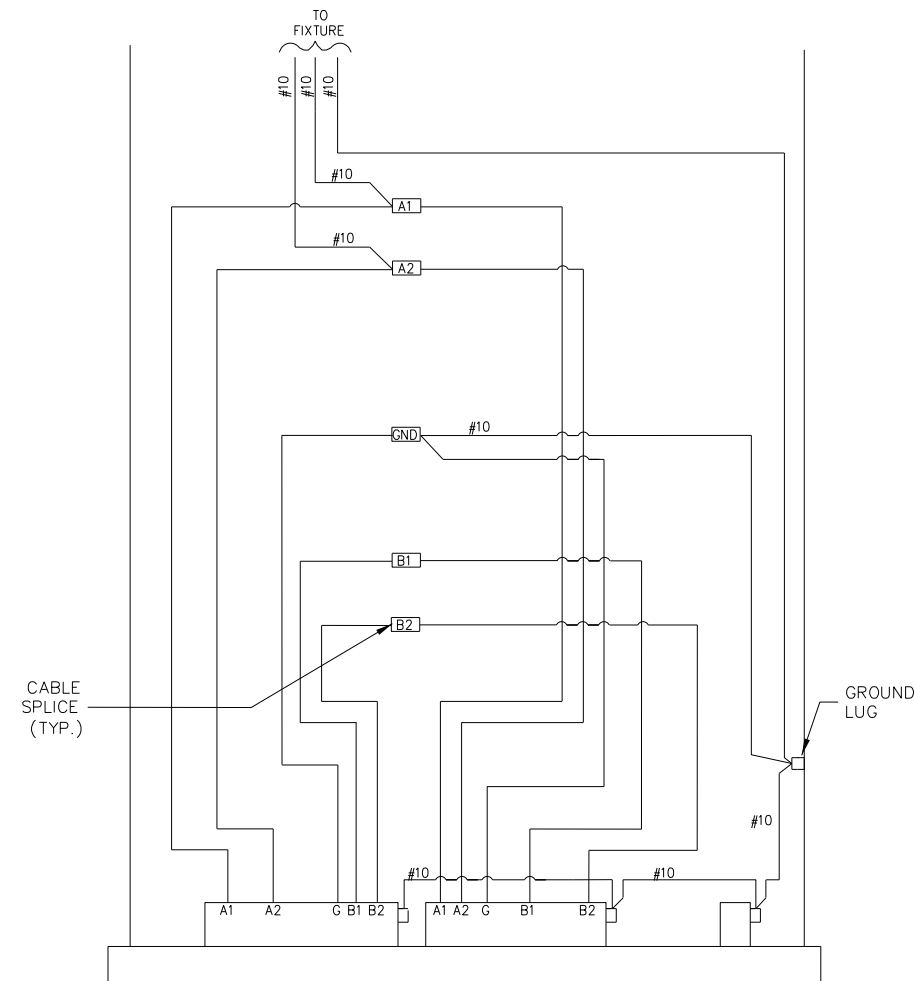


SPlicing ELECTRICAL Cables
BASIC MATERIALS AND METHODS

NO SCALE



LIGHTING UNIT DETAIL



POLE BASE WIRING DETAIL

NO SCALE

NOTE:

1. ALTERNATE PHASE CIRCUITING OF FESTOONS AND LUMINAIRES AS SHOWN ON PLANS.
2. GROUND POLE AND TRANSFORMER BASE TO GROUND ROD IN METAL HELIX FOUNDATION.

NO.	REVISIONS	DATE
1	Removed ID Tag & Added Engraved Base (prs)	3/13

Ref: 28860

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

hapco		TITLE 40' POLES
Abingdon, Va.		CUSTOMER ILLINOIS DOT
SCALE 44	DATE 3/20/2013	BY KDP
CHK'D	DWG. NO. B29513	

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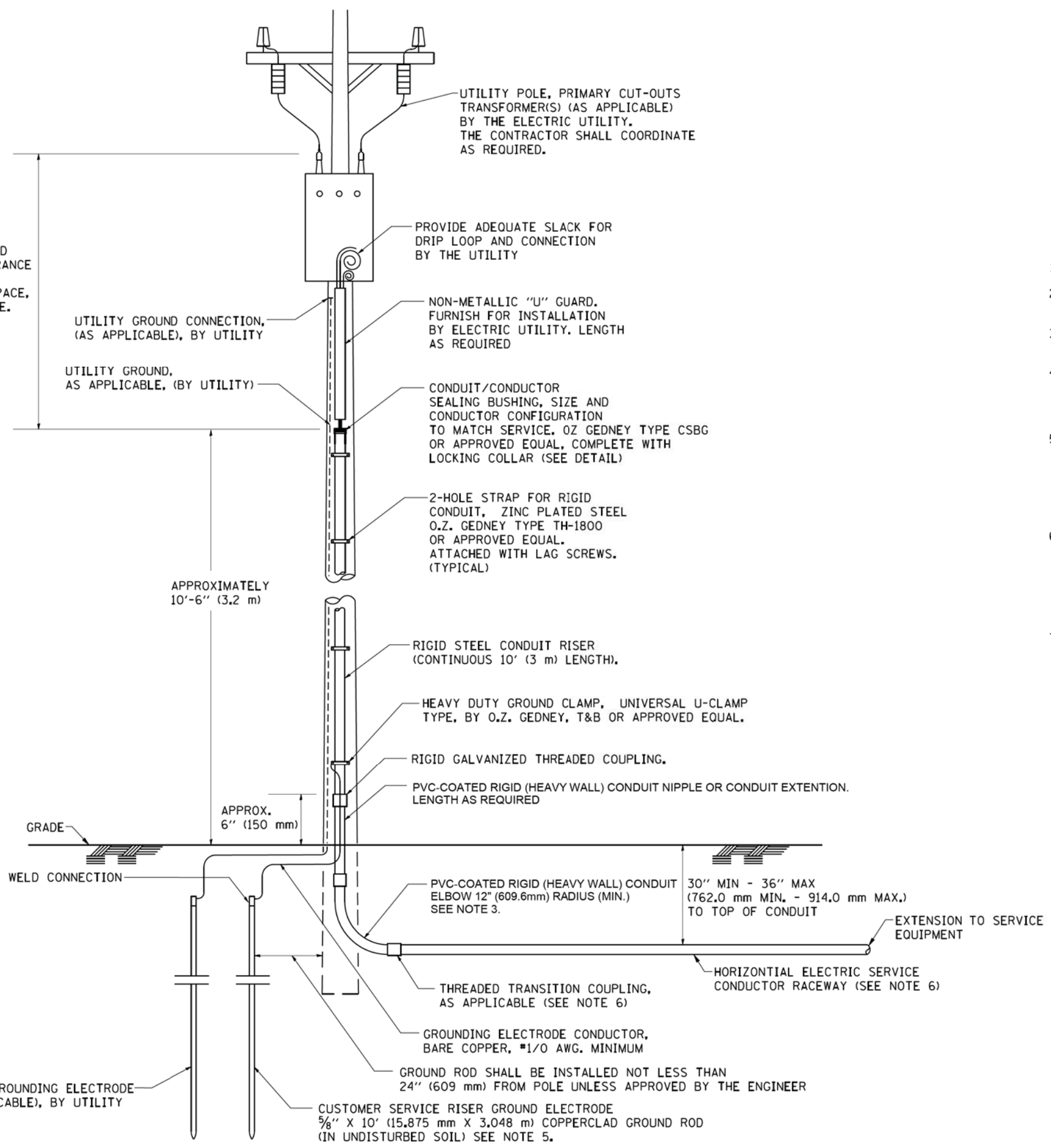
STATE OF ILLINOIS
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STREET LIGHTING DETAILS

SCALE: STA. TO STA.

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2582	14-00115-00-PV	COOK	199	152
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.



UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S) (AS APPLICABLE) BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

UTILITY GROUND CONNECTION, (AS APPLICABLE), BY UTILITY

UTILITY GROUND, AS APPLICABLE, (BY UTILITY)

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

CONDUIT/CONNECTOR SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. OZ GEDNEY TYPE CSBG OR APPROVED EQUAL, COMPLETE WITH LOCKING COLLAR (SEE DETAIL)

2-HOLE STRAP FOR RIGID CONDUIT, ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL. ATTACHED WITH LAG SCREWS. (TYPICAL)

APPROXIMATELY 10'-6" (3.2 m)

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' (3 m) LENGTH).

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE, BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

RIGID GALVANIZED THREADED COUPLING.

PVC-COATED RIGID (HEAVY WALL) CONDUIT NIPPLE OR CONDUIT EXTENSION. LENGTH AS REQUIRED

APPROX. 6" (150 mm)

GRADE

EXOTHERMIC WELD CONNECTION

PVC-COATED RIGID (HEAVY WALL) CONDUIT ELBOW 12" (609.6mm) RADIUS (MIN.) SEE NOTE 3. 30" MIN - 36" MAX (762.0 mm MIN. - 914.0 mm MAX.) TO TOP OF CONDUIT

EXTENSION TO SERVICE EQUIPMENT

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 6)

HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY (SEE NOTE 6)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/0 AWG. MINIMUM

GROUND ROD SHALL BE INSTALLED NOT LESS THAN 24" (609 mm) FROM POLE UNLESS APPROVED BY THE ENGINEER

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

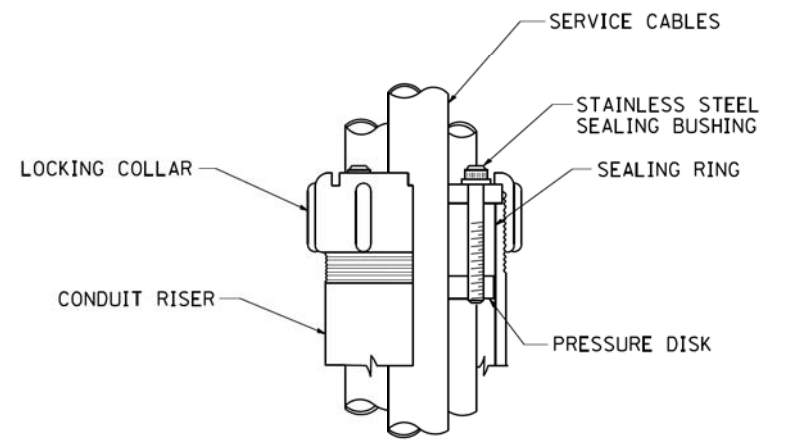
CUSTOMER SERVICE RISER GROUND ELECTRODE 5/8" X 10' (15.875 mm X 3.048 m) COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL) SEE NOTE 5.

APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

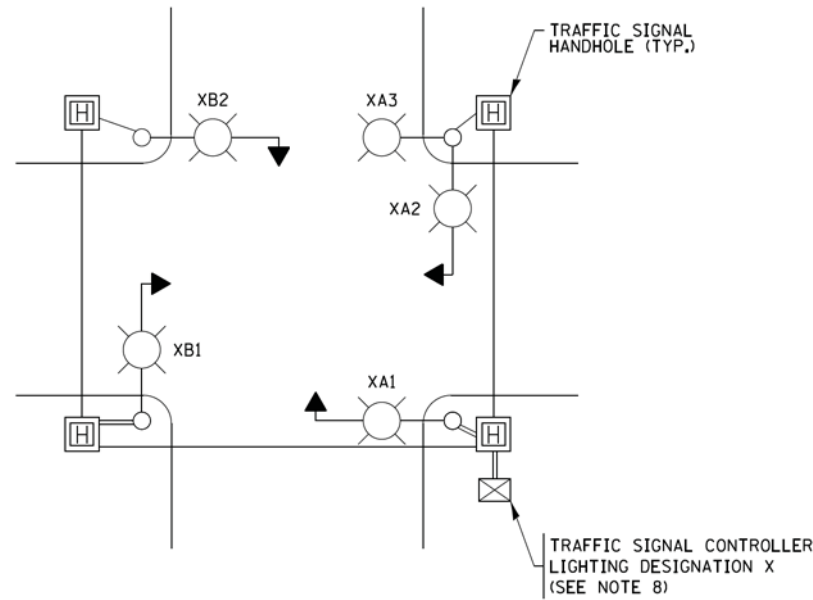
NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

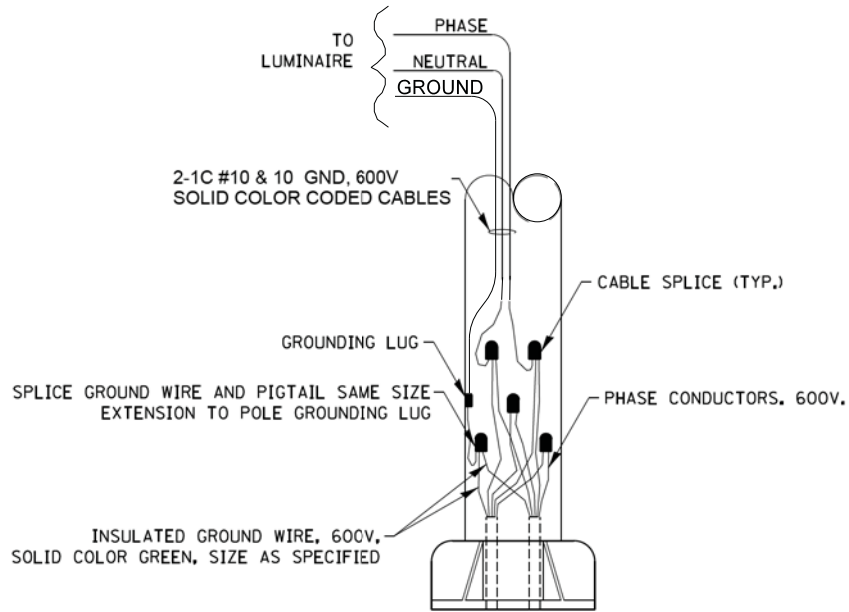
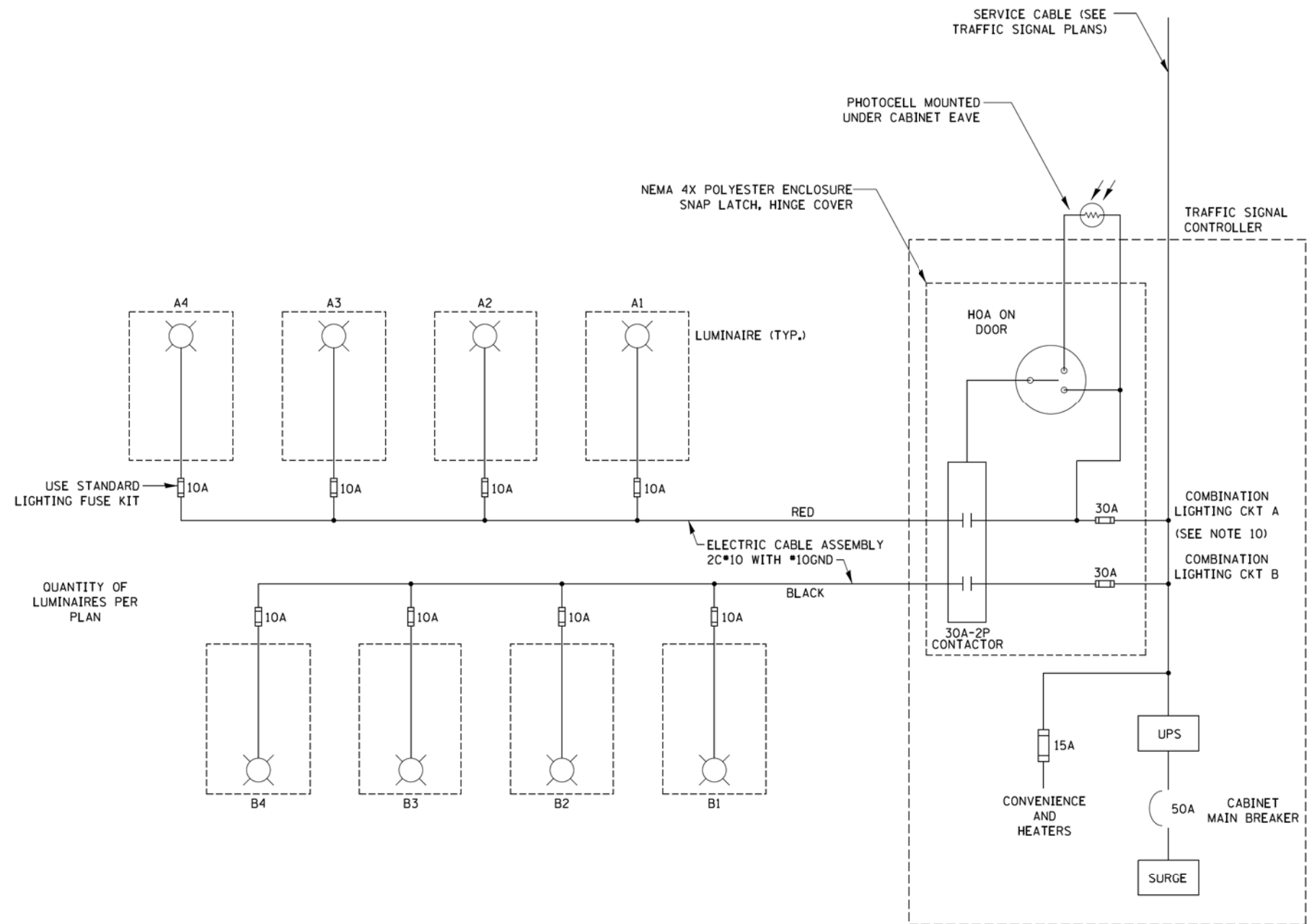


SEALING BUSHING DETAIL

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PLOT SCALE = 50.0000' / IN.	CHECKED - MEA	REVISIED -	REVISIED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-220		CONTRACT NO. 61E29	
PLOT DATE = 1/4/2008	DATE -	REVISIED -	REVISIED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16							



TYPICAL LIGHTING CIRCUIT DESIGNATIONS
(NOT TO SCALE)



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. LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
8. RECORD DRAWING SHALL INCLUDE:
 - TRAFFIC SIGNAL PLAN SHEET(S)
 - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
 - LIGHTING PLANS
 - THIS DETAIL
9. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
10. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

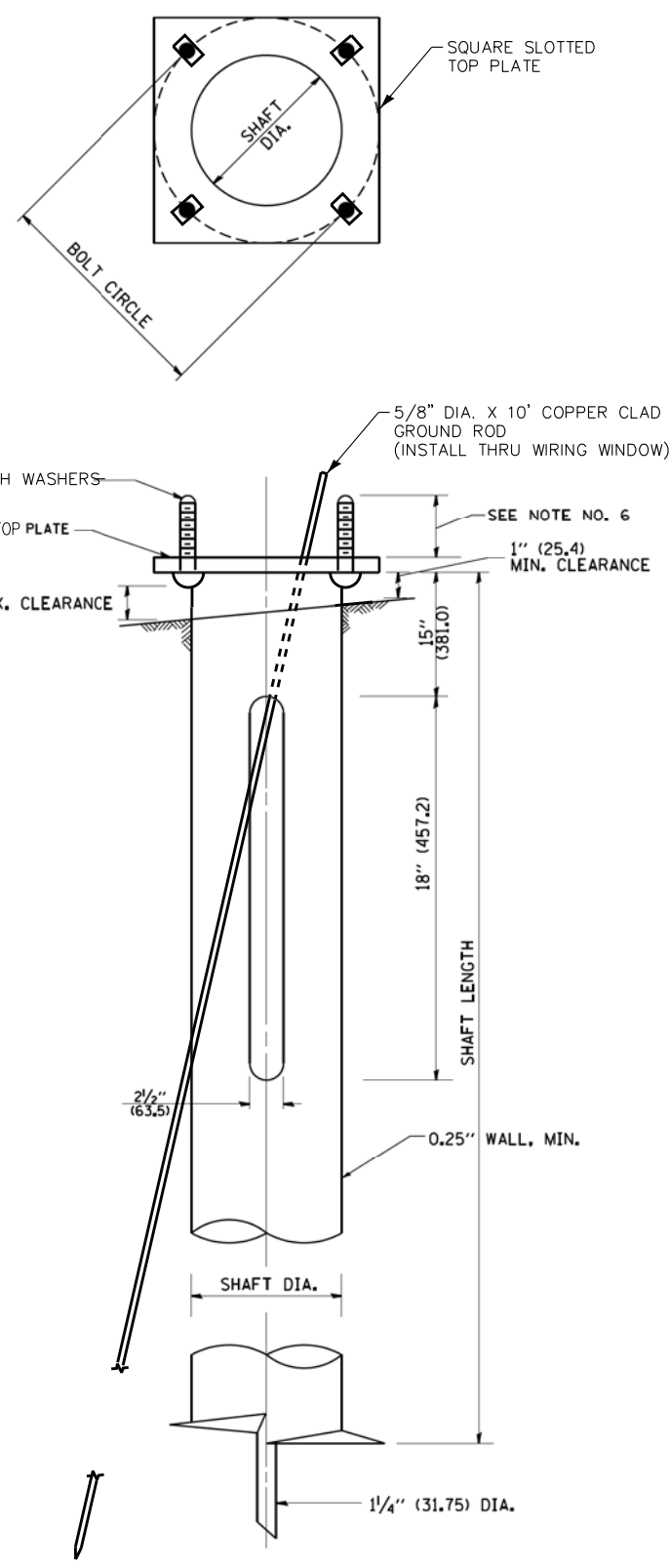
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		DRAWN -	REVISED - 10/13/2015
		CHECKED - RT	REVISED -
		DATE - 08/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

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

F.A.U. RTE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 154
BE-240		CONTRACT NO. 61E29		
ILLINOIS FED. AID PROJECT C-91-060-16				



HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

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

NOTES:

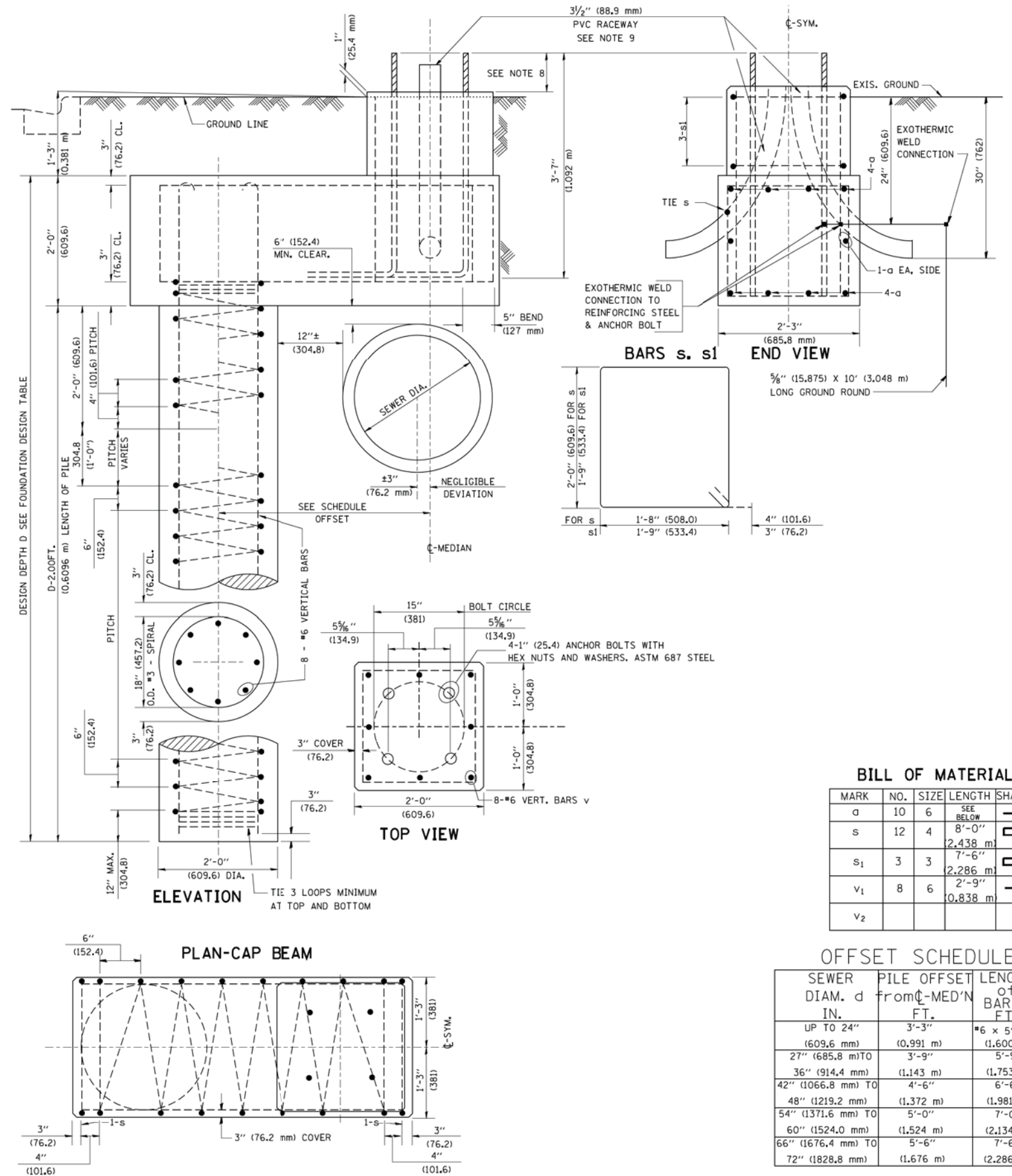
- ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS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

FOUNDATION DESIGN TABLE

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

NOTES

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



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2,438 m)	□
s ₁	3	3	7'-6" (2,286 m)	□
v ₁	8	6	0.838 m	—
v ₂				

OFFSET SCHEDULE

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

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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET
40" (12.192 m) TO 47 1/2" (14.478 m) M.H.
15" (381 mm) BOLT CIRCLE

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 156
BE-310		CONTRACT NO. 61E29		
ILLINOIS FED. AID PROJECT C-91-060-16				

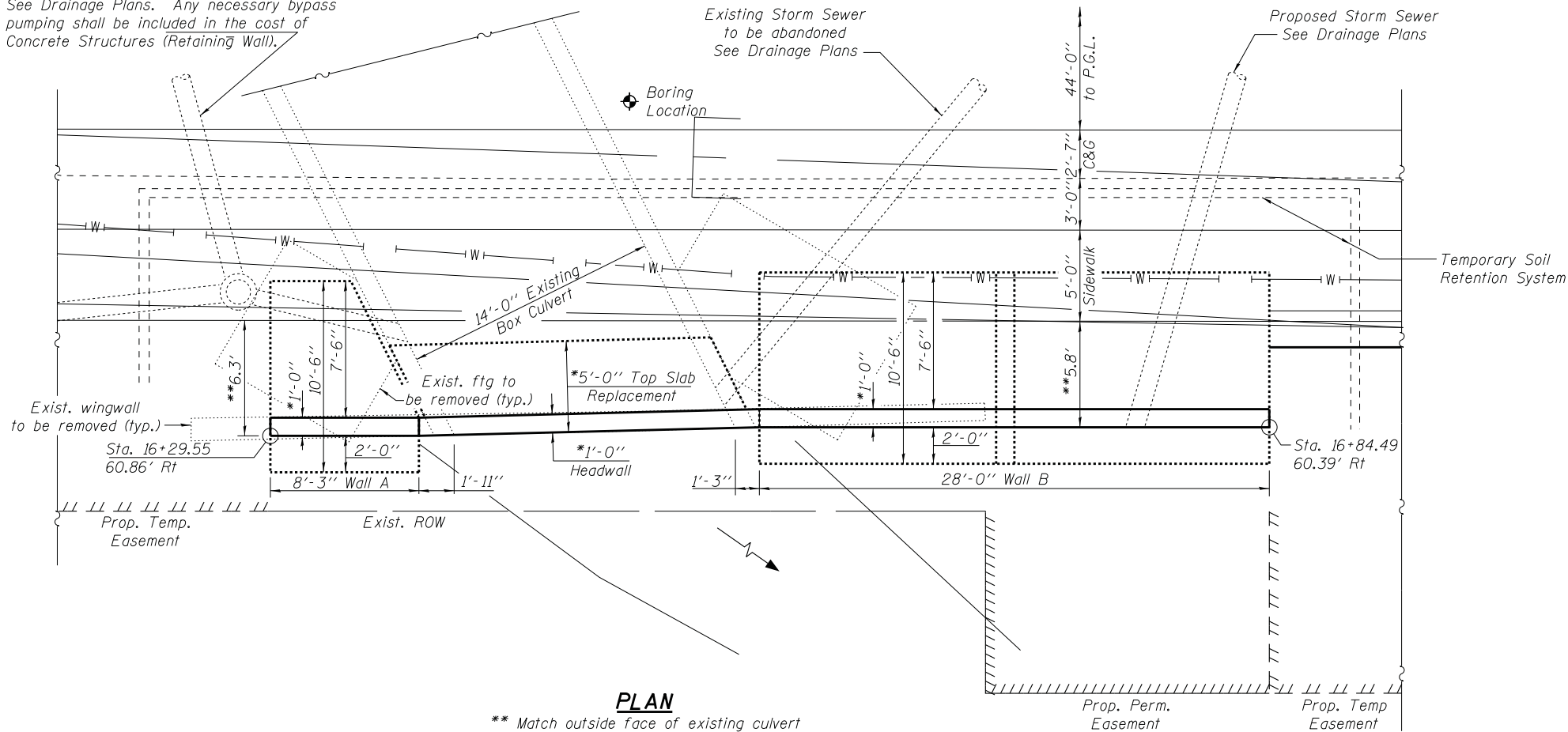
6/16/2008 K:\diststd\22x34\be310.dgn bauerdl

Existing Structure: 14'x4.5' concrete box culvert with 14' long cantilevered concrete wingwalls.
 Built in 1983 and extended in 1993. Top slab to be removed partially and reconstructed along with a new headwall to accommodate construction of a new sidewalk. Existing wingwalls to be removed completely and replaced with cast in place T-type retaining walls.

Existing Storm Sewer to be left in place.
 See Drainage Plans. Any necessary bypass pumping shall be included in the cost of Concrete Structures (Retaining Wall).

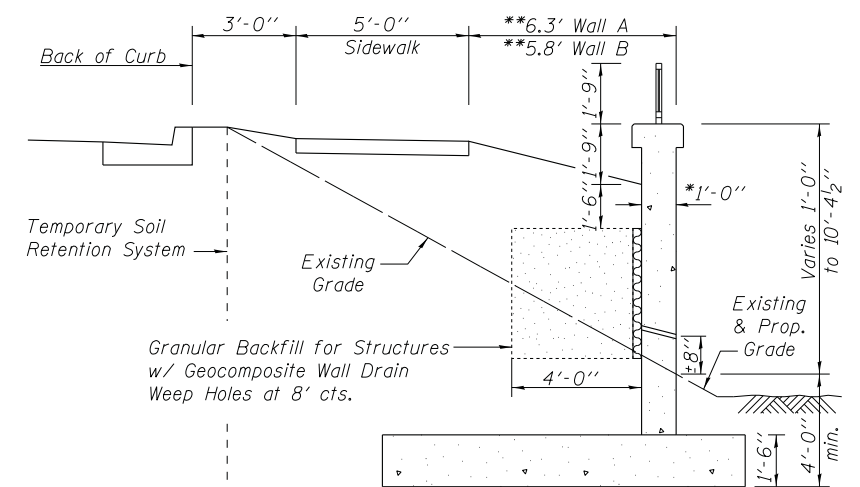
Existing Storm Sewer to be abandoned
 See Drainage Plans

Proposed Storm Sewer
 See Drainage Plans



PLAN

** Match outside face of existing culvert



SECTION A-A

* Additional thickness in form liner pattern not included

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Granular Backfill for Structures	Cu Yd	22
Concrete Removal	Cu Yd	22.8
Structure Excavation	Cu Yd	222
Concrete Structures	Cu Yd	7.2
Form Liner Textured Surface	Sq Ft	540
Protective Coat	Sq Yd	60
Reinforcement Bars, Epoxy Coated	Pound	6070
Parapet Railing	Foot	54
Temporary Soil Retention System	Sq Ft	1235
Concrete Structures (Retaining Wall)	Cu Yd	39.1
Geocomposite Wall Drain	Sq Yd	16
Concrete Surface Color Treatment	Sq Ft	503
Expansion Bolts 3/4 inch x 9 inch	Each	13

NOTE:
 Cost of Temporary Soil Retention System shall include protection of all existing utilities, including any MWRD facilities.

See Sheet 1 for S.E. Seal.

DESIGN SPECIFICATIONS

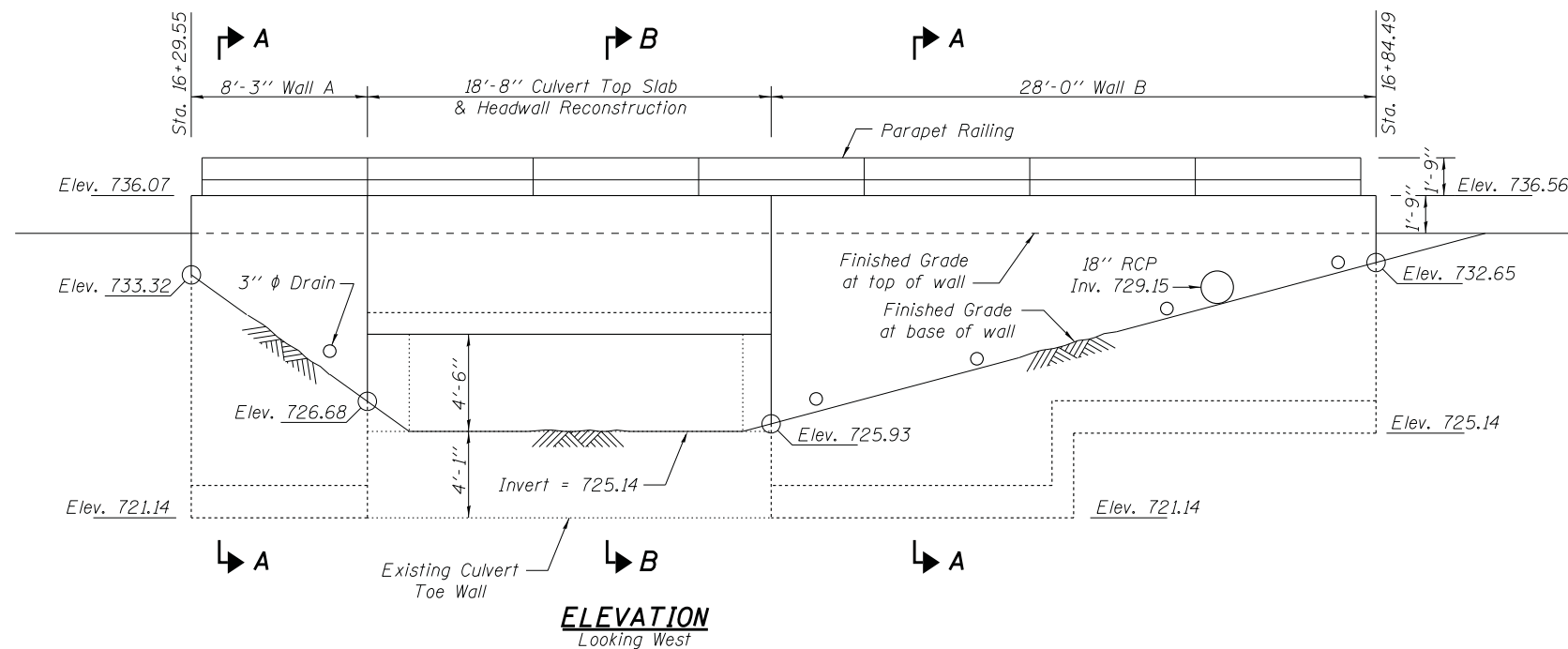
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

Maximum applied service bearing pressure (Q_{max}) = 3,000 PSF



ELEVATION
 Looking West

Form Liner not shown for clarity

WATERWAY INFORMATION

2 YR. FLOW RATE = 151 FT³/S

**GENERAL PLAN
 PLUM GROVE ROAD RETAINING WALL
 AND CULVERT MODIFICATION**

STA. 16+25 TO 16+84
 SEC. 14-00115-00-PV
 COOK COUNTY

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019
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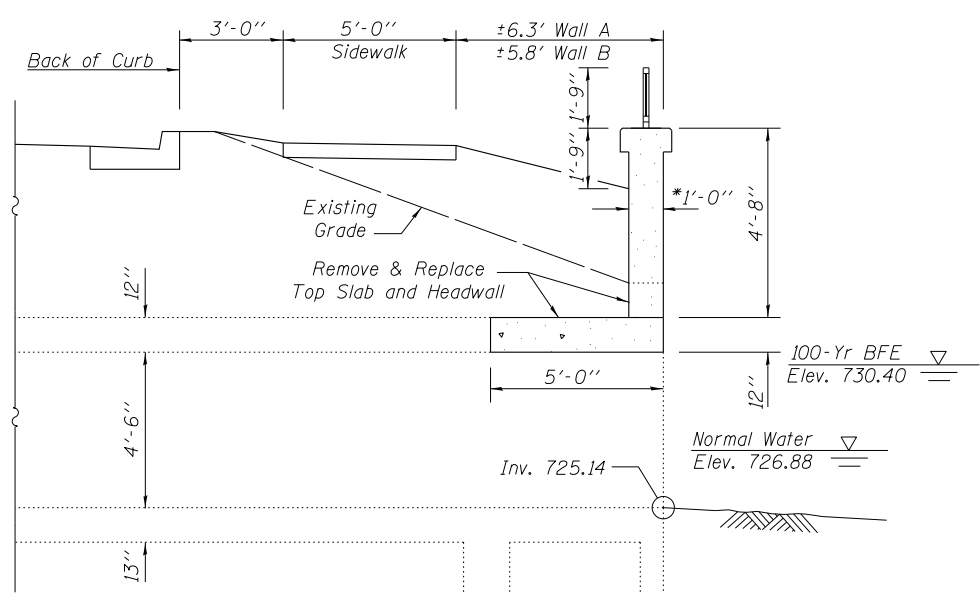
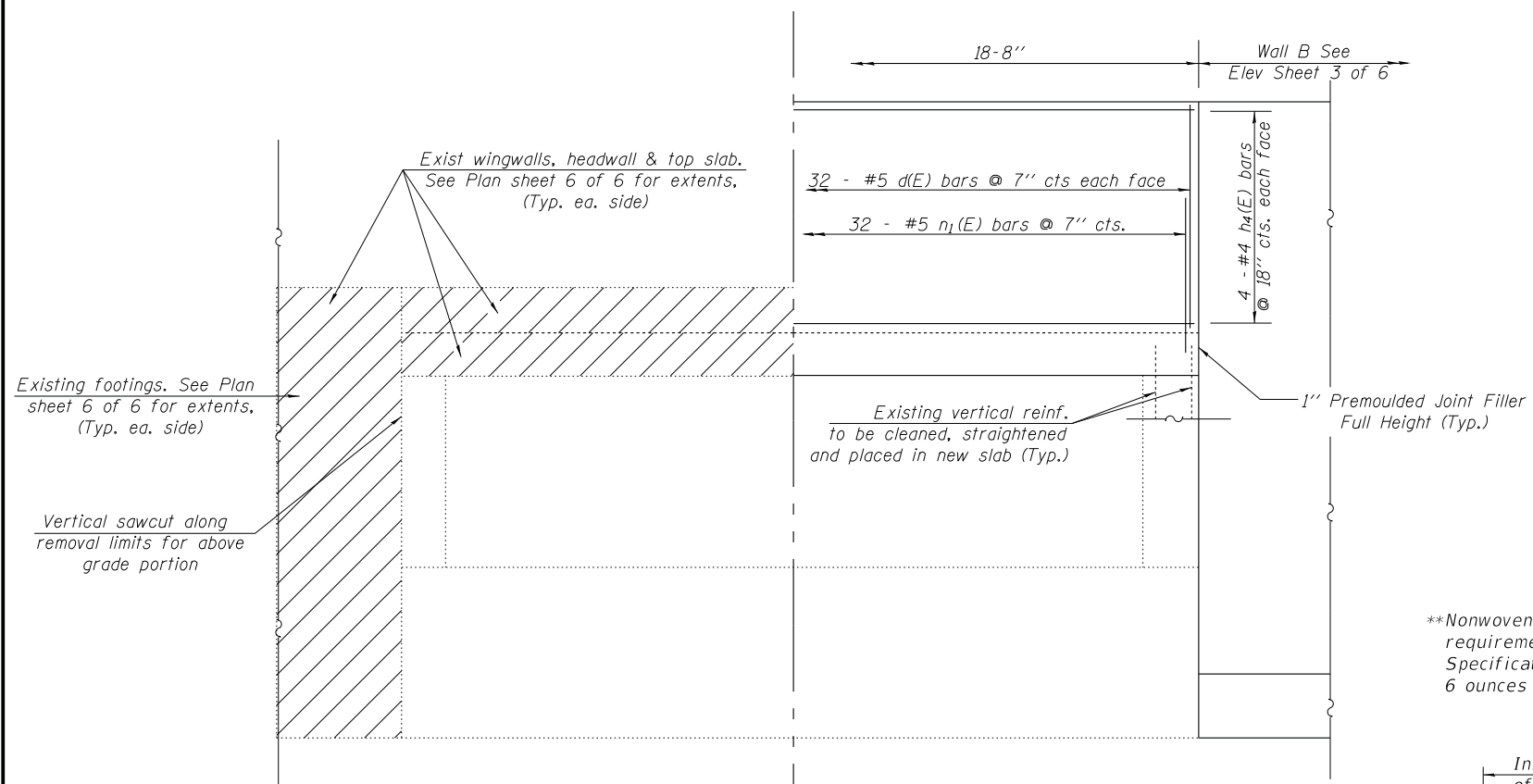
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLUM GROVE ROAD CULVERT
 GENERAL PLAN

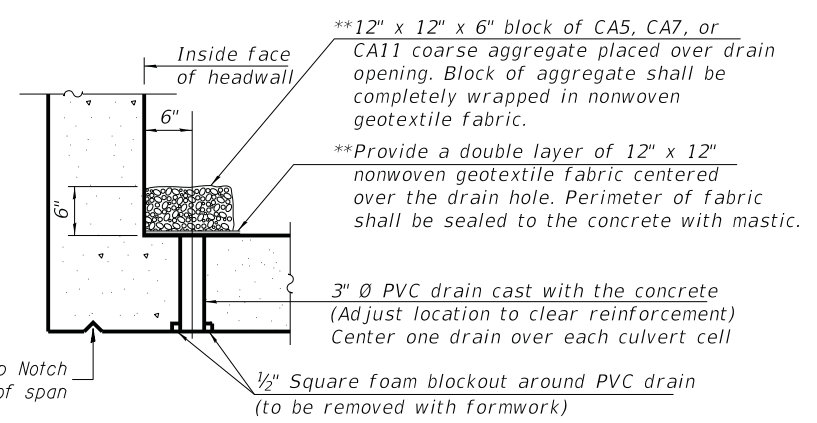
SHEET NO. 1 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	157
			CONTRACT NO. 61E29	

ILLINOIS FED. AID PROJECT 3JJI(866)



**Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

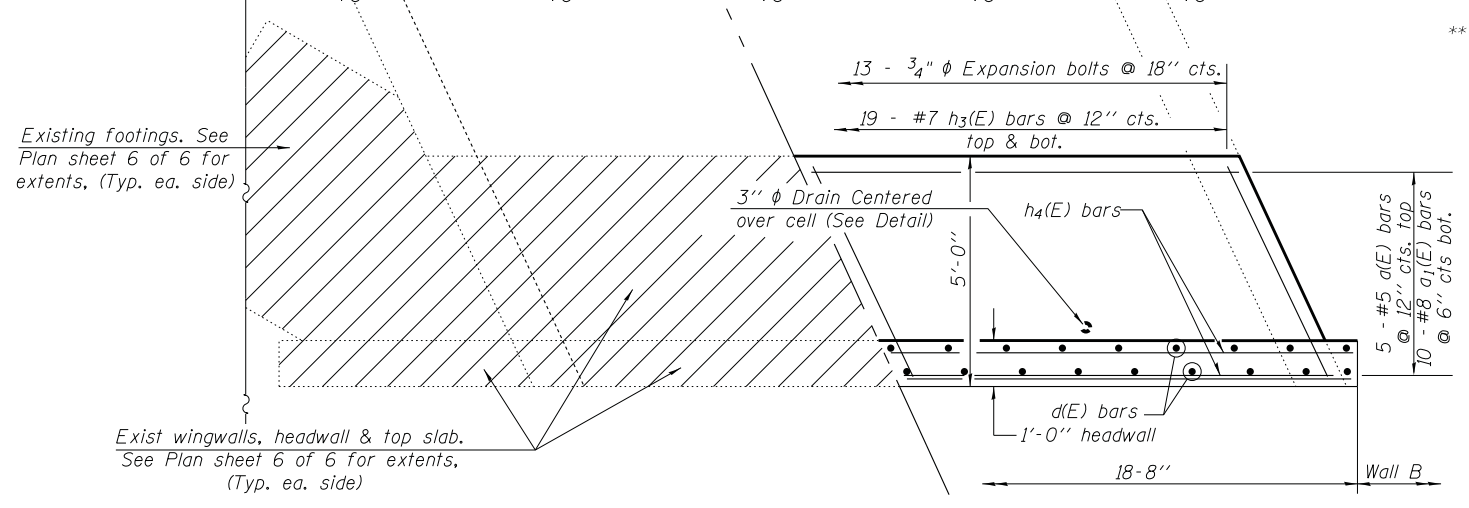
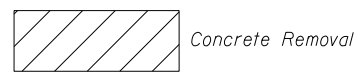


DRAIN DETAIL

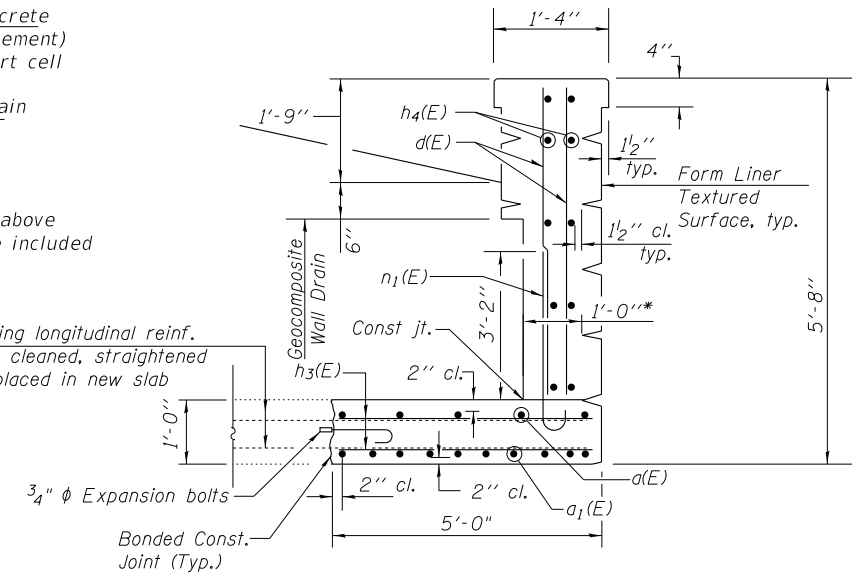
** (All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

REMOVAL PROPOSED ELEVATION
Looking West

LEGEND:



REMOVAL PROPOSED PLAN



* Excludes additional concrete for form liner pattern.

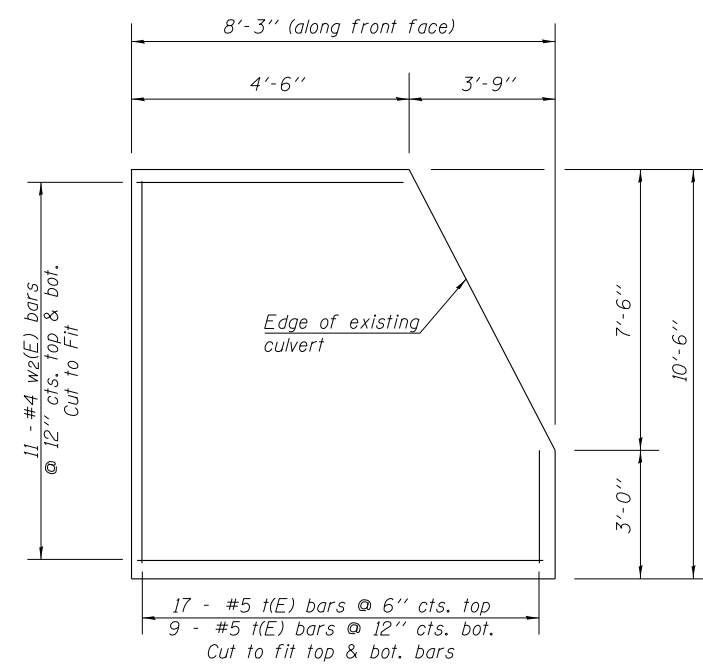
HEADWALL SECTION
Dimensions are at right angles to Roadway

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLUM GROVE ROAD CULVERT CULVERT MODIFICATION DETAILS	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			2582	14-00115-00-PV	COOK	199	158	
		DRAWN -	REVISED -			CONTRACT NO. 61E29					
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT 3JJI(866)					

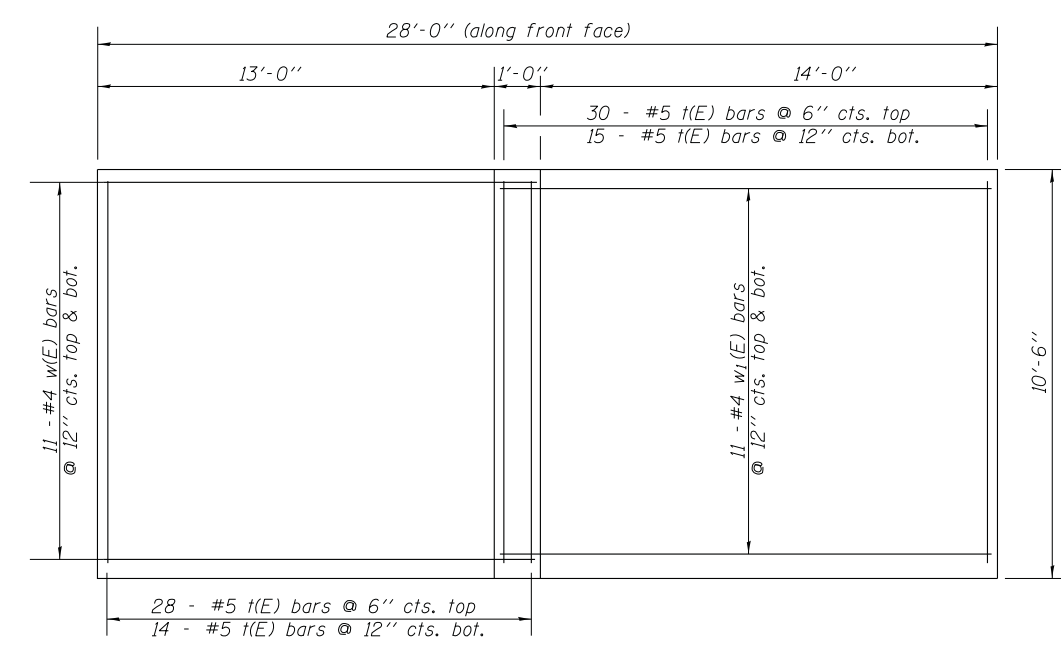
**RETAINING WALL & HEADWALL
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	5	#5	18'-4"	—
a ₁ (E)	10	#8	19'-8"	⌋
d(E)	64	#5	4'-5"	—
h(E)	4	#4	13'-8"	—
h ₁ (E)	14	#4	27'-8"	—
h ₂ (E)	18	#4	7'-11"	—
h ₃ (E)	38	#7	5'-3"	—
h ₄ (E)	8	#4	18'-0"	—
n(E)	61	#7	7'-1"	⌋
n ₁ (E)	32	#5	4'-5"	⌋
t(E)	113	#5	10'-2"	—
v(E)	44	#5	13'-4"	—
v ₁ (E)	48	#5	9'-7"	—
v ₂ (E)	30	#5	13'-0"	—
w(E)	22	#4	13'-8"	—
w ₁ (E)	22	#4	14'-8"	—
w ₂ (E)	22	#4	7'-11"	—
Concrete Structures (Retaining Wall)			Cu Yd	39.1
Concrete Structures			Cu Yd	7.2
Reinforcement Bars, Epoxy Coated			Pound	6070

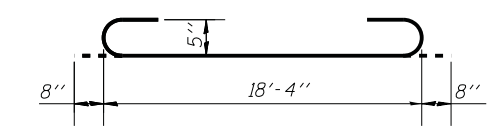
See Sheet 4 of 6 for form liner details & quantities



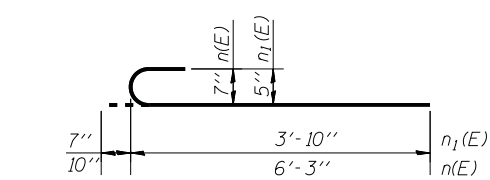
WALL A FOOTING PLAN



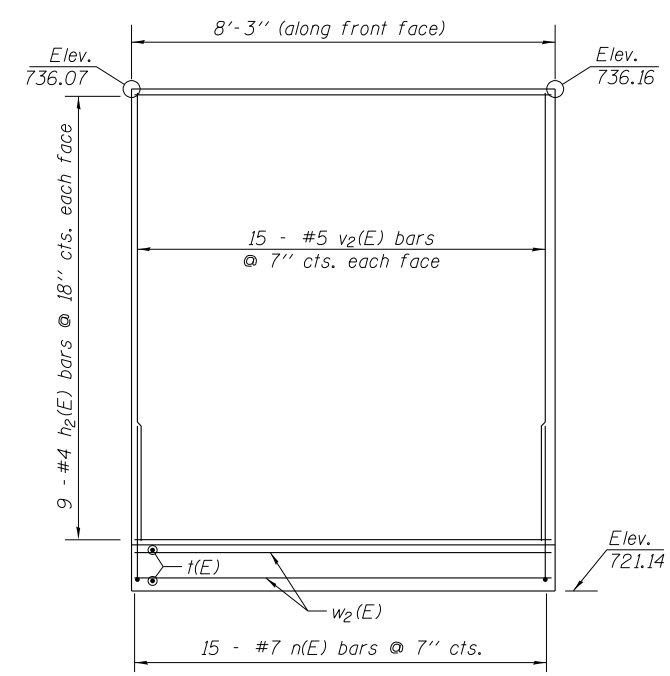
WALL B FOOTING PLAN



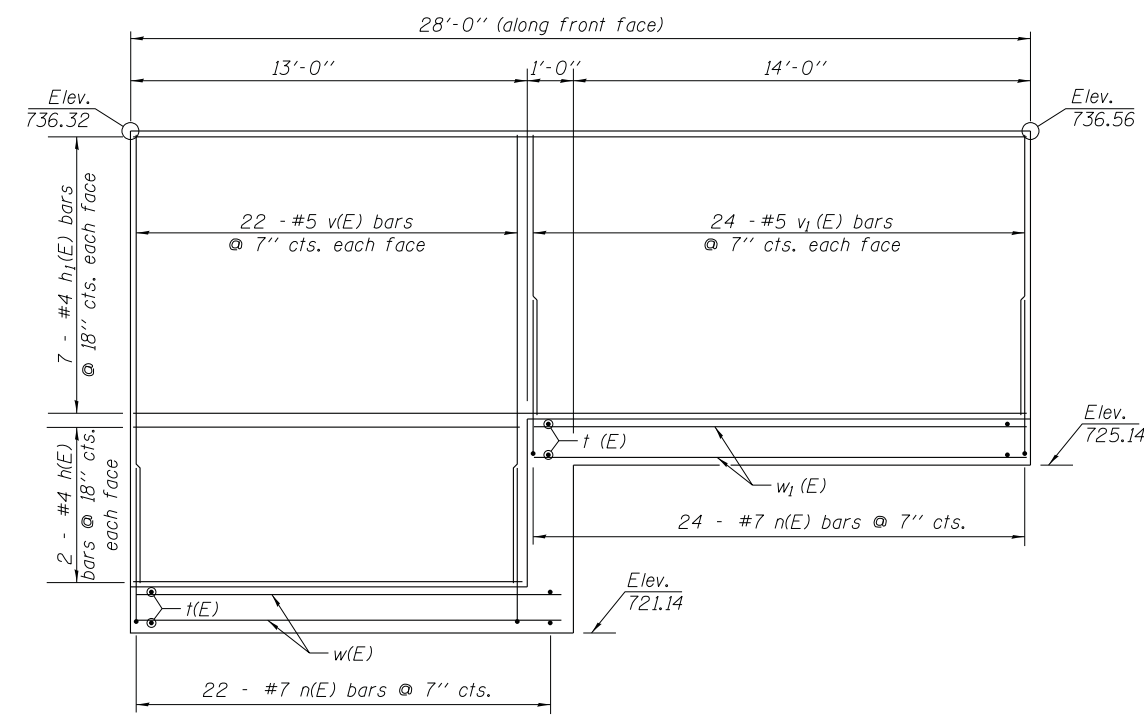
BAR a₁(E)



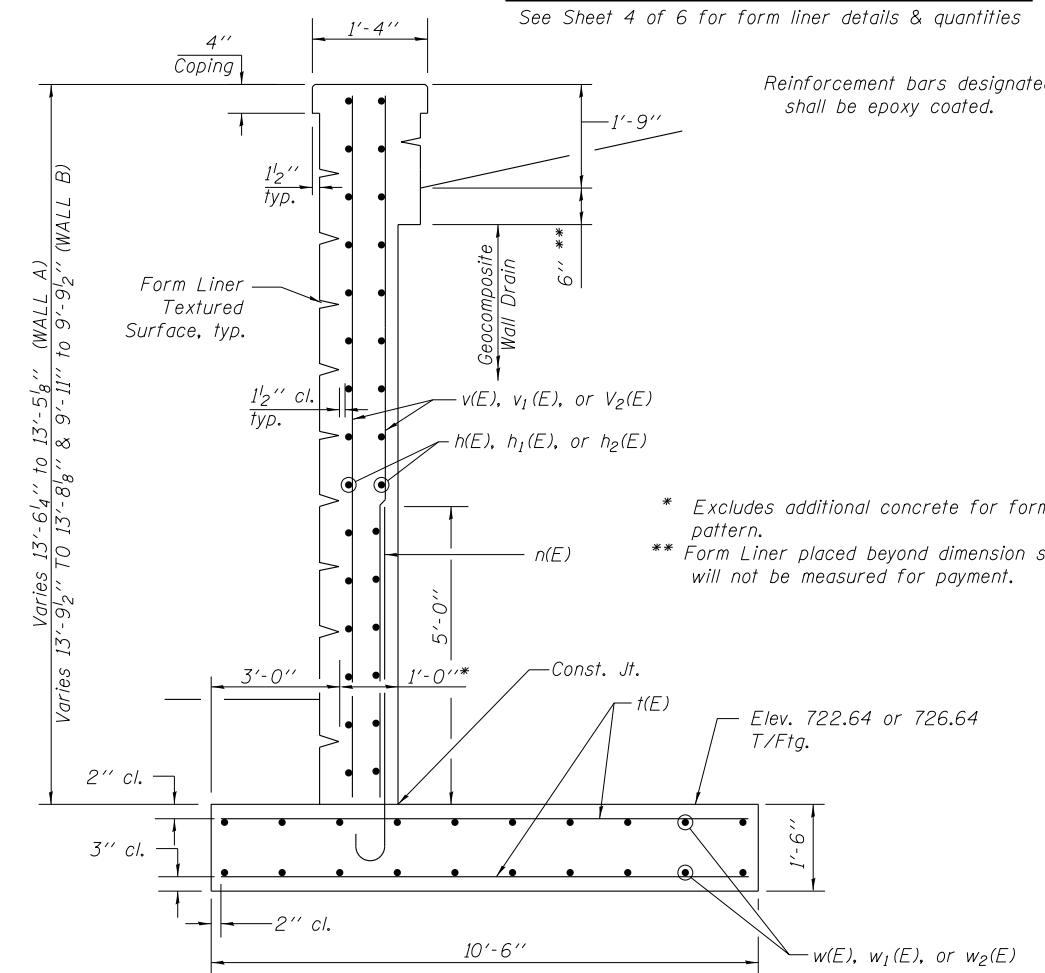
BAR n(E) & n₁(E)



WALL A ELEVATION



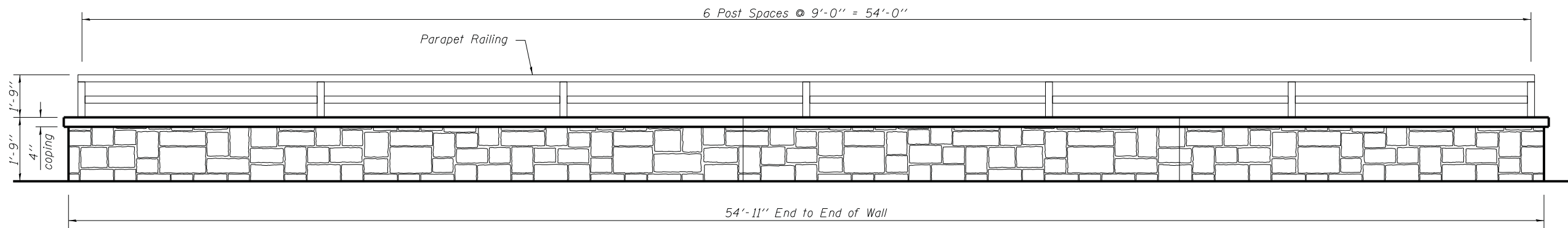
WALL B ELEVATION



Reinforcement bars designated (E) shall be epoxy coated.

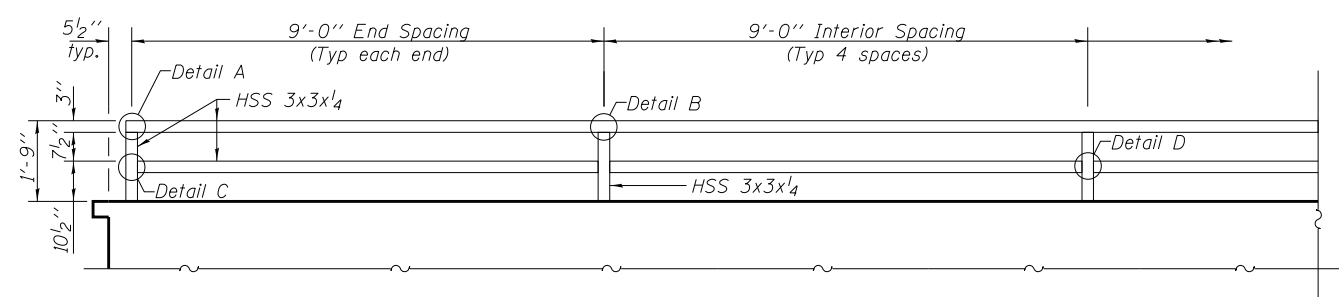
* Excludes additional concrete for form liner pattern.
** Form Liner placed beyond dimension shown will not be measured for payment.

TYPICAL RETAINING WALL SECTION

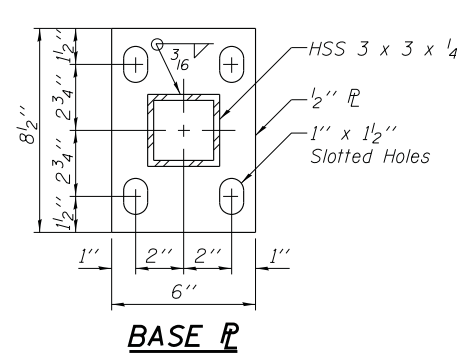


WEST ELEVATION

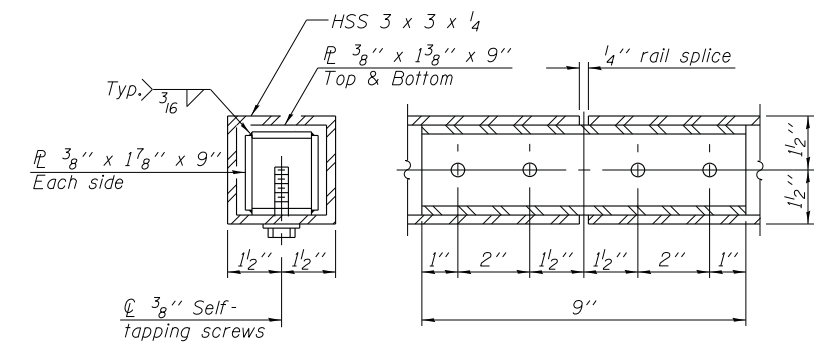
Form Liner pattern shall be applied to all exposed surfaces of retaining wall and headwall, including ends



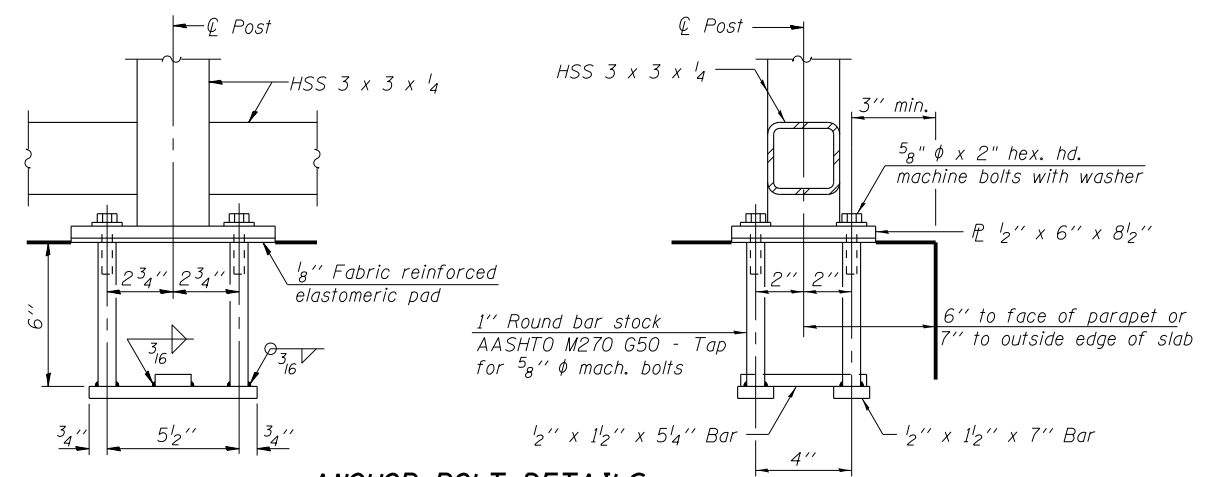
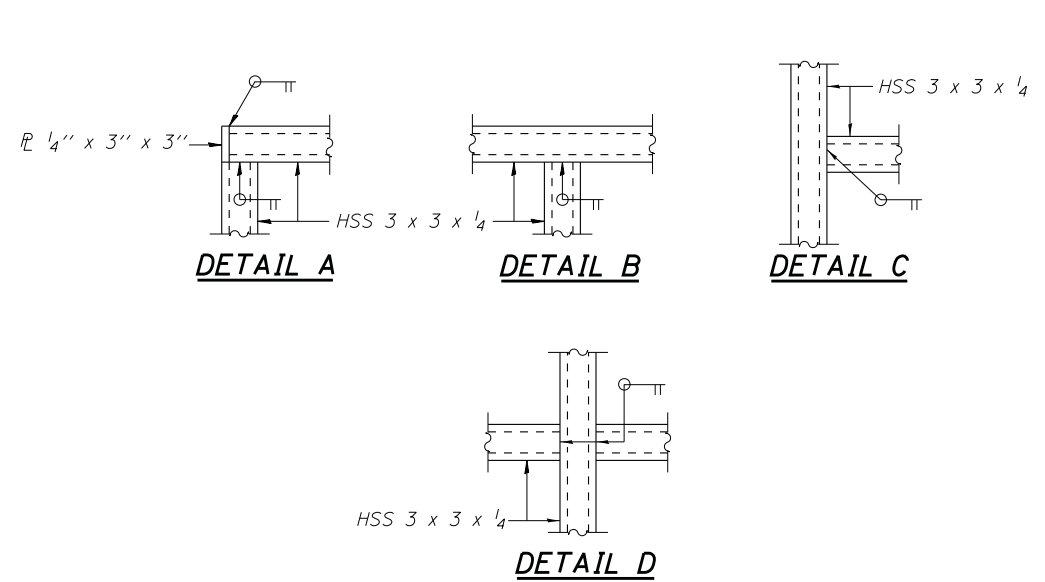
PARAPET RAILING ELEVATION



BASE PL



RAIL SPLICE



ANCHOR BOLT DETAILS

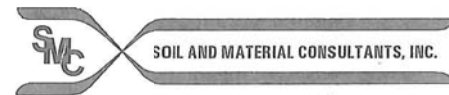
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES

Railing shall be according to the applicable portions of Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Parapet Railing.
 Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
 Hollow steel pipes shall conform to the requirements of ASTM A53 and shall be "standard weight".
 All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
 All post, railing, splices, anchor devices, and bent plates shall be painted using the Organic Zinc Rich Primer / Epoxy / Urethane Paint System. The color of the final finish coat shall be matte black.
 Space reinforcement in wall to miss anchor rods.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	54
Form Liner Textured Surface	Sq Ft	540
Concrete Color Surface Treatment	Sq Ft	503



File No. 23191 BORING LOG CB-101

Client Baxter & Woodman, Inc. Sheet 1 of 2

Comments Station 16+55 Project Plum Grove Road Date 4/7/17

42' S. of CL Location Schaumburg, IL Drilled By AC

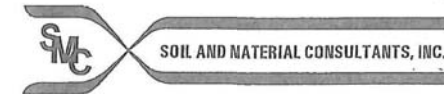
Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
736.5'	(See Core Log)											
734.5'												
733.0'	Black-dark brown clay & silt, trace sand & gravel, damp, very tough-Fill		1	SS	16"		4	11	4.0	17.6	98.5	2.9
730.5'	Brown fine-medium sand & gravel, some coarse sand, damp, medium dense Fill		5	2	SS	13"	5	11		3.6		
727.0'	Brown fine sand, trace medium-coarse sand & gravel, damp-saturated, medium dense to loose - Fill		3	SS	12"	6	11			5.4		
725.5'												
724.0'	Gray-black clay, some silt, trace sand & gravel, very damp, stiff-Fill		10	5	SS	12"	3	7	0.75	12.8	17.8	
724.0'	Brown-gray clay, some silt, trace sand & gravel, damp, hard		6	SS	18"	9	16	4.5+	18.5	110.9	6.0	
724.0'	Gray clay, some silt, trace sand & gravel, damp, very tough		15	7	SS	15"	6	11	2.25	20.4	112.2	2.4
718.5'												
718.5'	Gray clay, some silt, trace sand & gravel, damp, tough		20	9	SS	18"	5	9	1.5	24.3	98.7	1.6

Water Level — depth, ft. elev., ft.
 - while drilling: 8.5
 - after drilling: 23.5
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu. ft.
 Qu - unconfined compressive strength, tons/ sq. ft.

F-111b



File No. 23191 BORING LOG CB-101

Client Baxter & Woodman, Inc. Sheet 2 of 2

Comments Plum Grove Road Date 4/7/17

Schaumburg, IL Drilled By AC

Equipment CME 45B H.A. Other Logged By DA

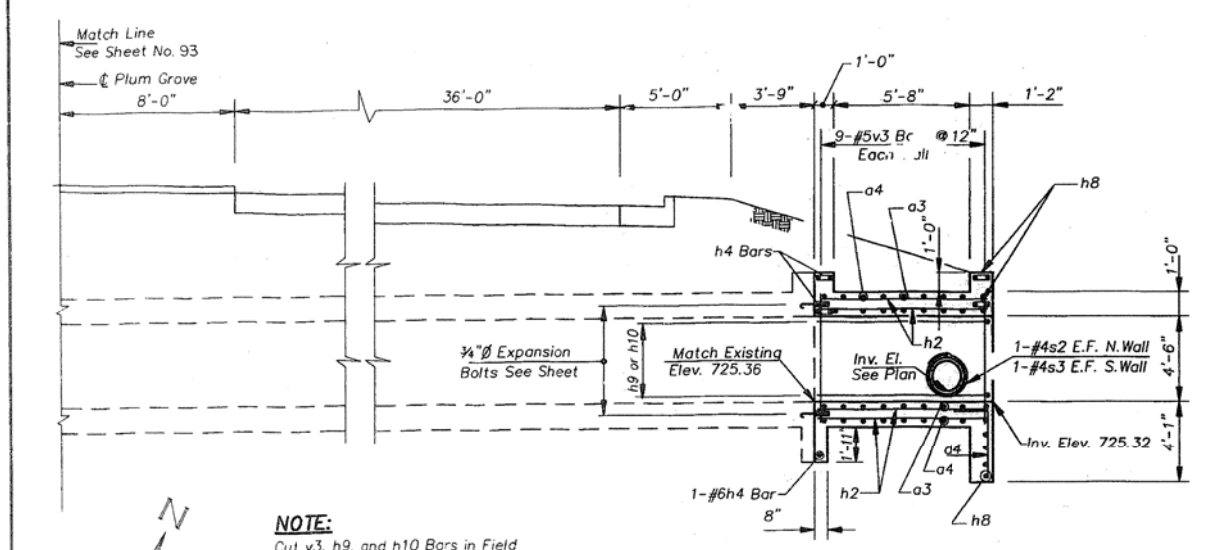
Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
715.0'	Gray clay, some silt, trace sand & gravel, very damp, tough		10				2		0.75	26.1	108.7	1.3
712.0'	Gray fine-medium sand & gravel, some coarse sand, saturated, medium dense to loose		11	SS	14"	11	22			14.5		
712.0'			12				4			20.2		
712.0'	Gray clay, some silt, trace sand & gravel, damp-very damp, stiff		25	13	SS	16"	4	9	1.5	23.1	109.9	0.9
708.5'							2					
708.5'	Gray fine sand, trace medium-coarse sand, saturated, loose		30	15	SS	18"	5	9		16.1		
704.5'												
702.0'	Gray clay, some silt, trace sand, very damp, tough		16				2		0.5	24.9	104.9	1.0
702.0'	Gray silt, some clay, trace fine sand, damp, medium dense		35	17	SS	18"	10	12		11.3		
696.5'							5					
696.5'			40	18	SS	18"	5	10		13.2		

Water Level — depth, ft. elev., ft.
 - while drilling: 8.5
 - after drilling: 23.5
 - hrs. after drilling: _____

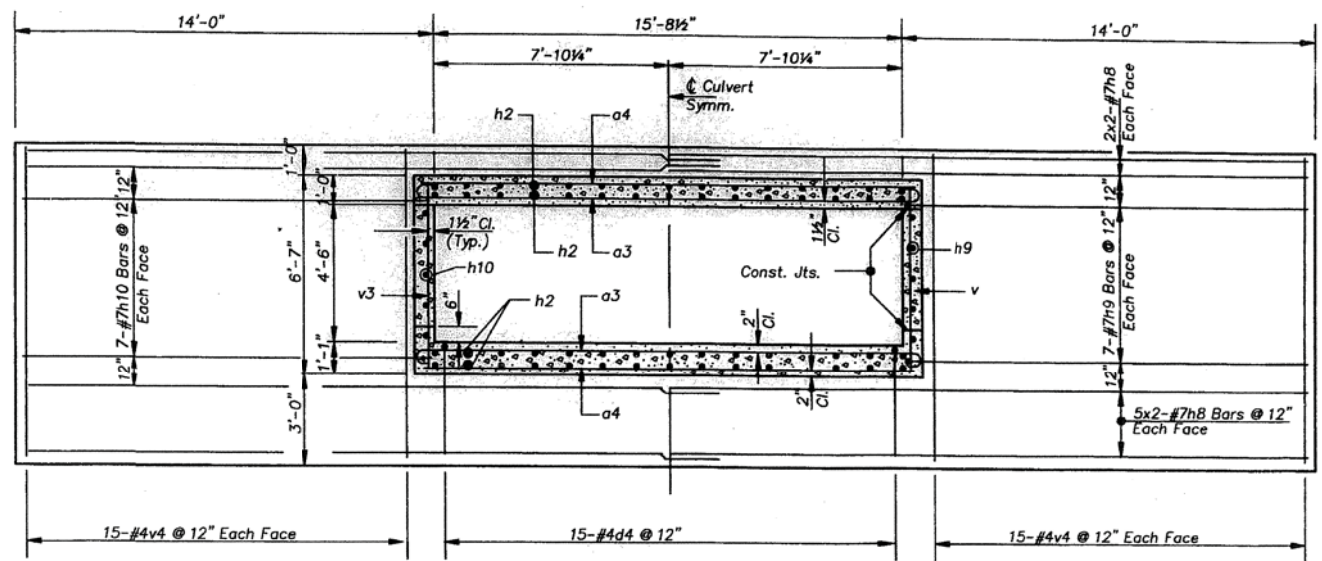
End of Boring
 S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu. ft.
 Qu - unconfined compressive strength, tons/ sq. ft.

F-111b

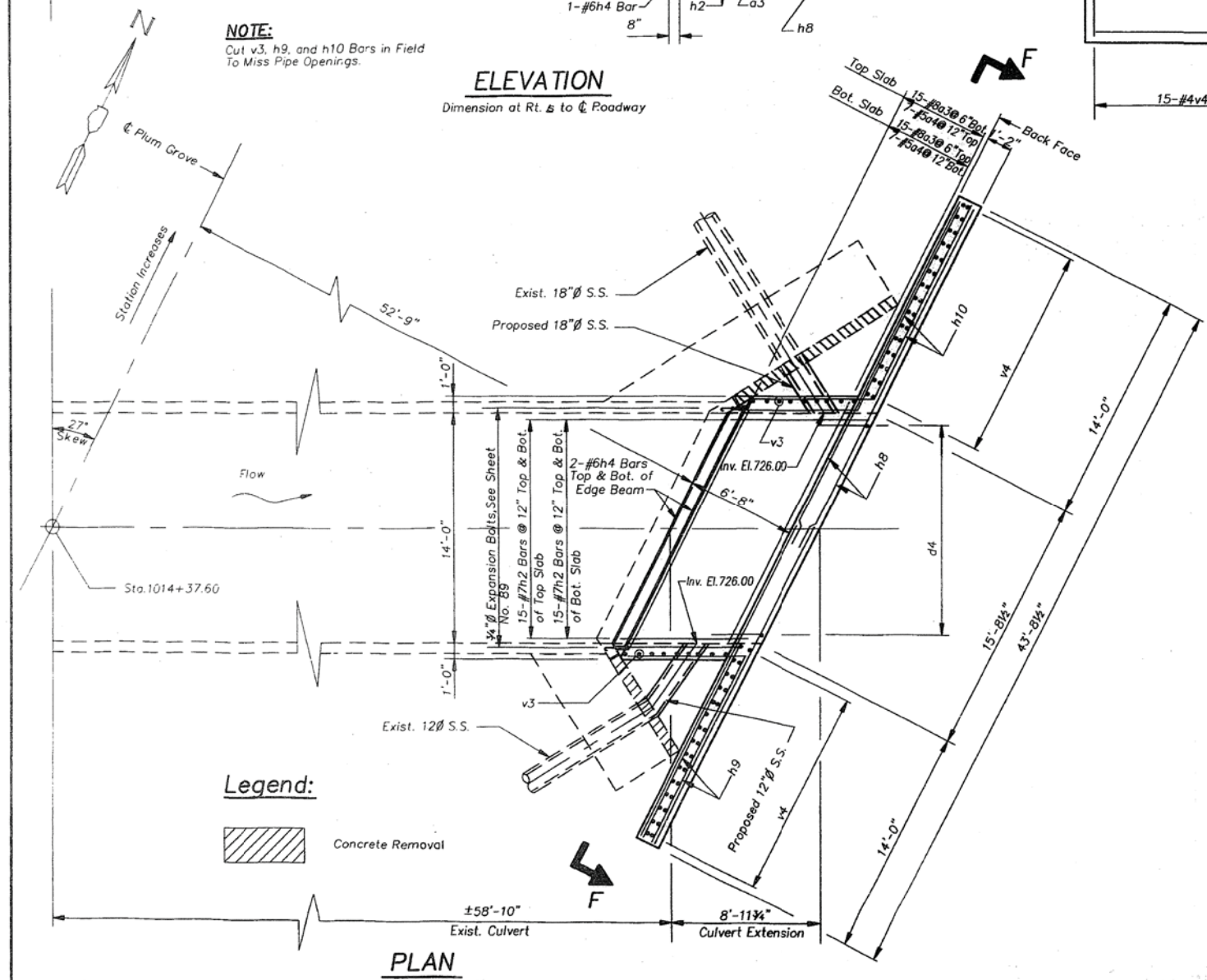
FAP.	SECTION	COUNTY	TOTAL SHEETS	NO.
*		Cook	113	9
STA.	TO STA.			
NO. AND DATE OF REVISION	BY	DATE	NO. AND PROJECT	



ELEVATION
Dimension at Rt. & to Roadway



SECTION F-F



PLAN

Legend:
 Concrete Removal

LAP SPLICE	
Size	Lap
#4	1'-8"
#5	2'-2"
#6	2'-7"
#7	3'-5"

NOTE:
 For Bill of Material, General Notes, and Bar Schedule, See Sheet No. 95
 Bar indicated thus 20X3-etc. Indicates 20 lines of bars with 3 length per line.
 F.C. Typical Cross Section show Anchor Bolts; See Sheet No. 95

REVISIONS	
NAME	DATE

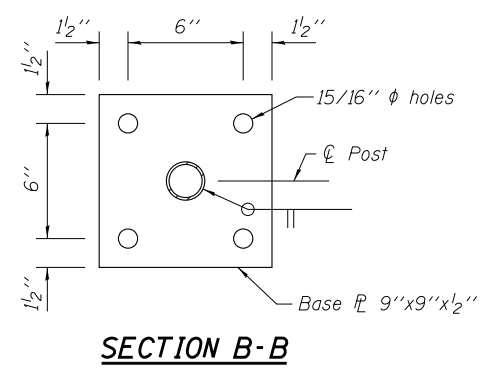
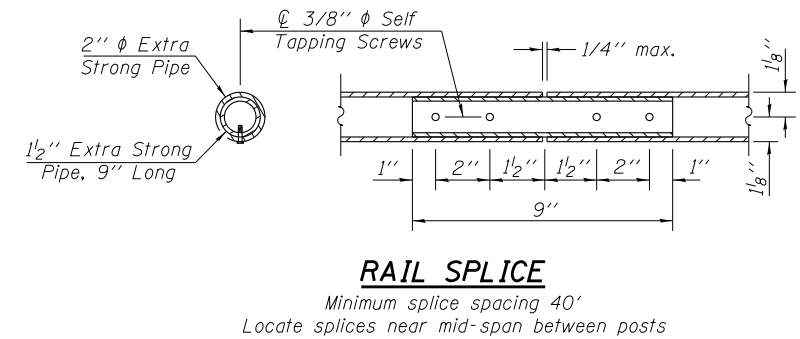
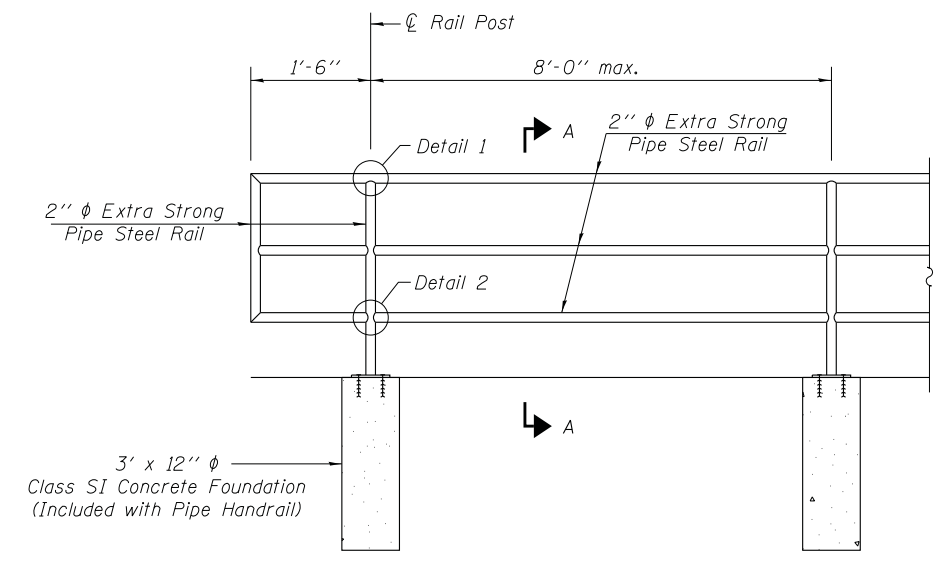
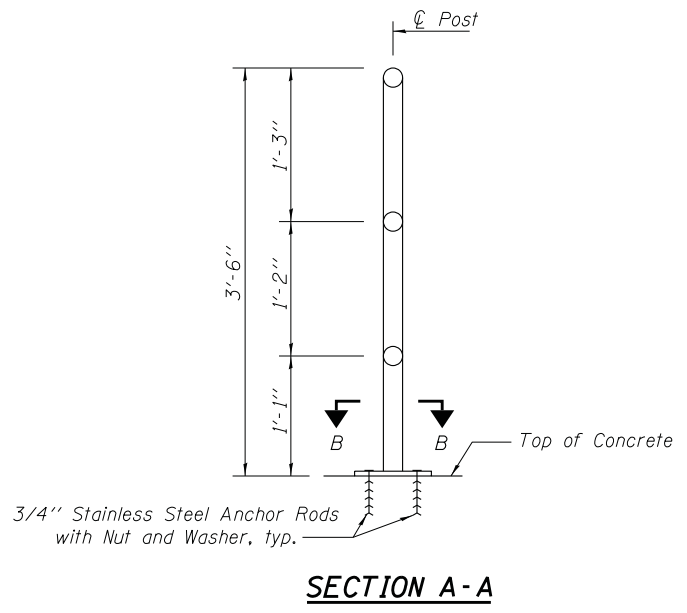
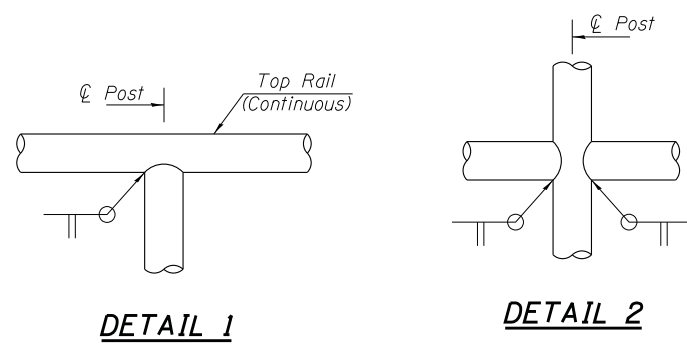
ILLINOIS DEPARTMENT OF TRANSPORTATION
**PLUM GROVE ROAD
 BOX CULVERT (EXTENSION)
 STATION 1014+37.60**
 DATE: 2/26/93
 DRAWN BY: ST/JHB
 CHECKED BY: ST/MSH

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLUM GROVE ROAD CULVERT
 EXISTING PLANS (FOR INFORMATION ONLY)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	162
			CONTRACT NO. 61E29	
ILLINOIS FED. AID PROJECT 3JJI(866)				



NOTES

- Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot.
- Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing.
- All other steel shapes and plates shall conform to the requirements of AASHTO M-270M, Grade 345.
- All post, railing, splices, anchor devices, and bent plates shall be painted using the Organic Zinc Rich Primer / Epoxy / Urethane Paint System. The color of the final finish coat shall be matte black.
- See Roadway Plans for pedestrian railing location.

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	Foot	95

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DATE = 10-9-17	CHECKED - BAB	REVISED -

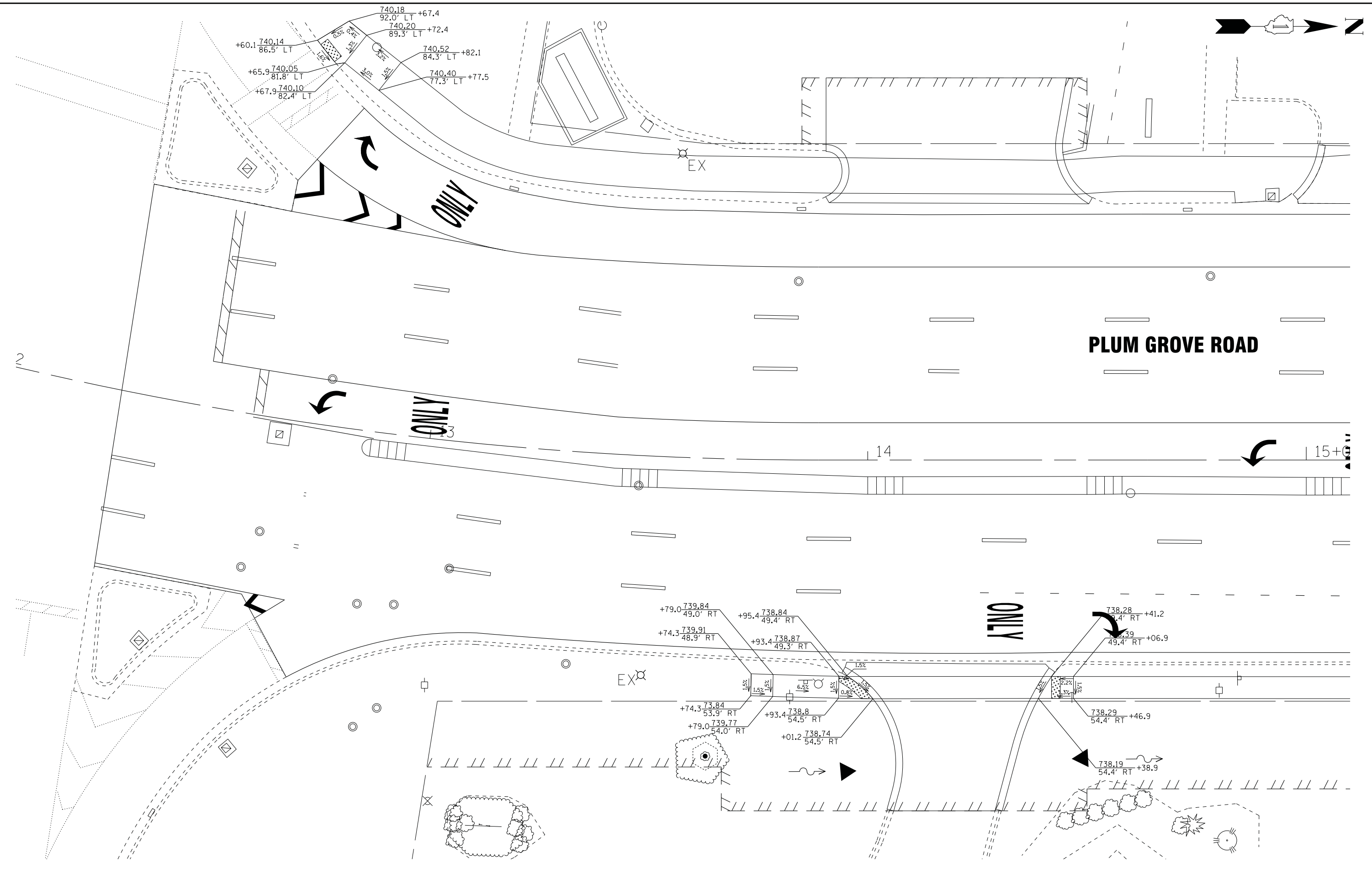
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PEDESTRIAN RAILING DETAILS

SHEET NO. 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	163
C-91-060-16		CONTRACT NO. 61E29		
ILLINOIS FED. AID PROJECT C-91-060-16				

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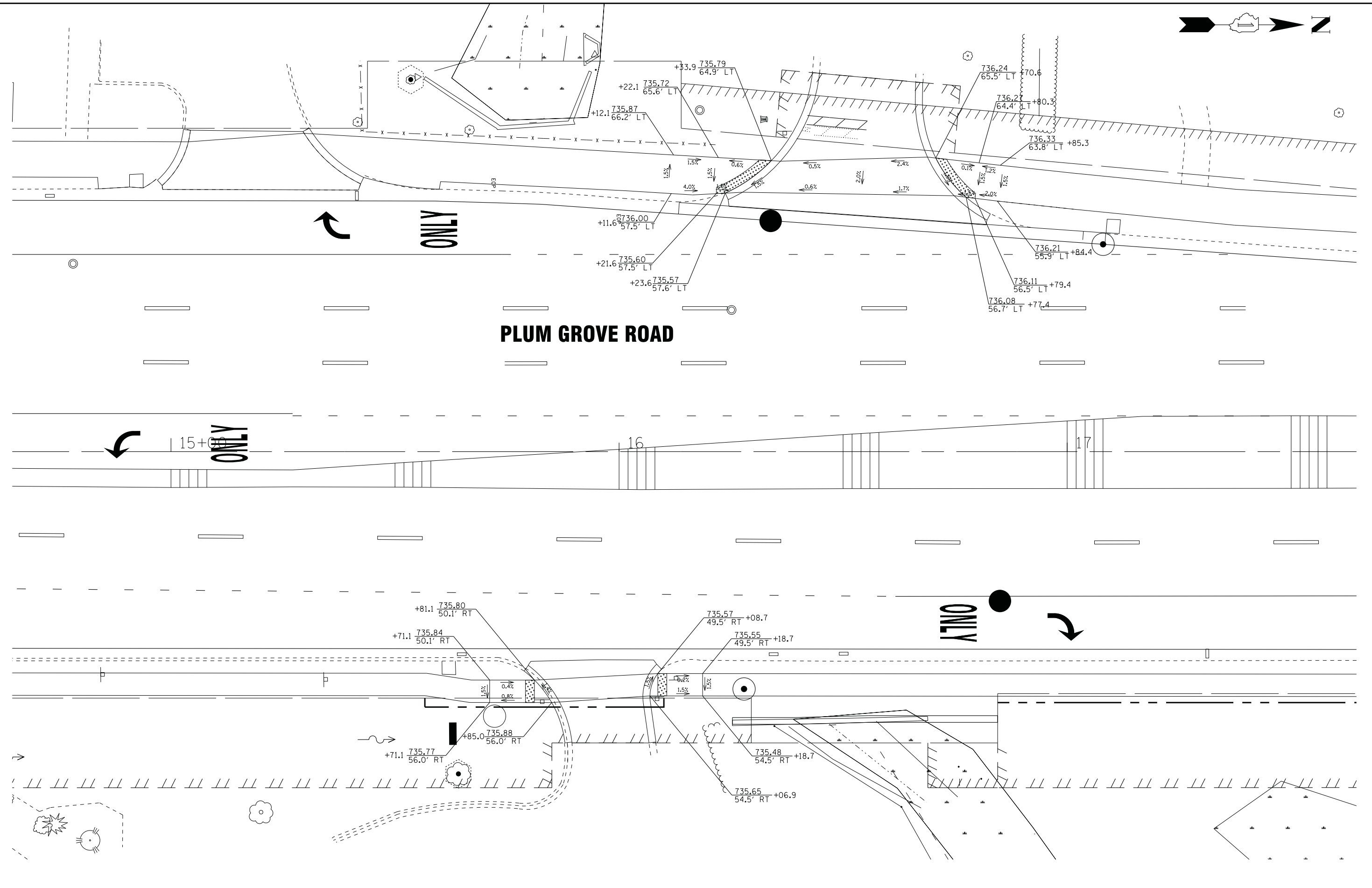
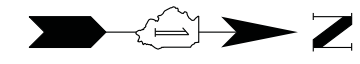
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAIL - PLUM GROVE ROAD
 STA 12+00 TO STA 15+10

SCALE: 1"=10'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	164
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



PLUM GROVE ROAD

ONLY

ONLY

ONLY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAIL – PLUM GROVE ROAD
STA 14+65 TO STA 17+65**

SCALE: 1"=10'

STA. TO STA.

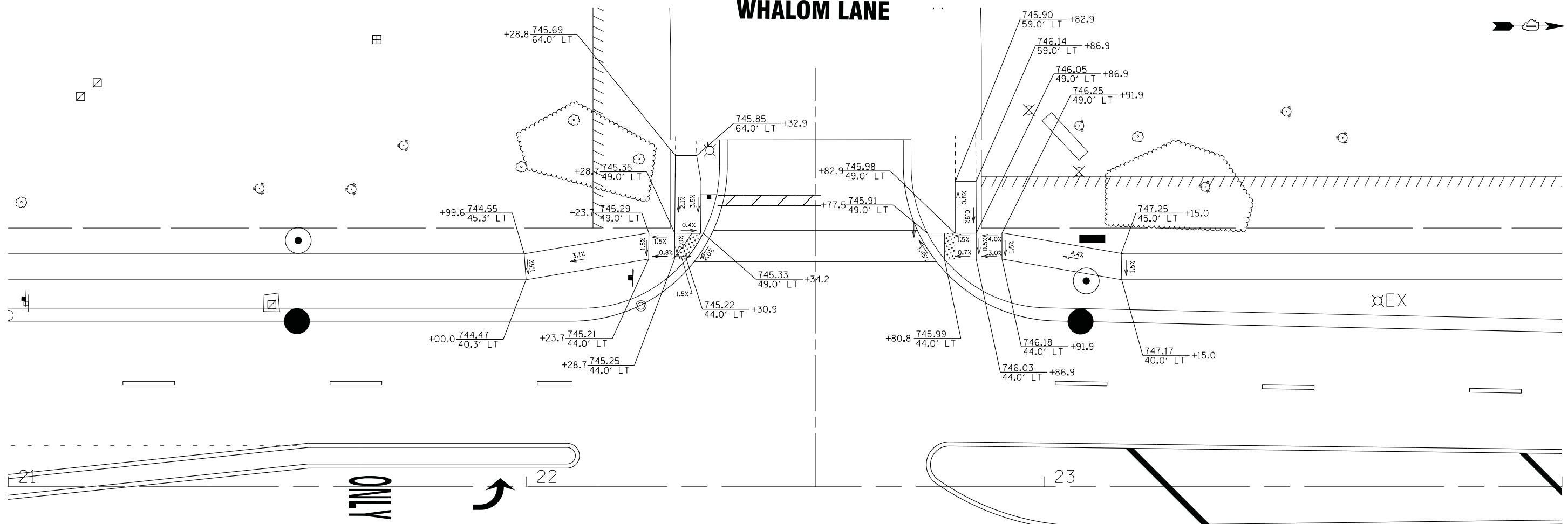
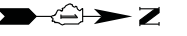
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

DESIGNED - AMW	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DJS	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-ADA-RmpDet-S14+00-Plum.dgn



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WHALOM LANE



PLUM GROVE ROAD

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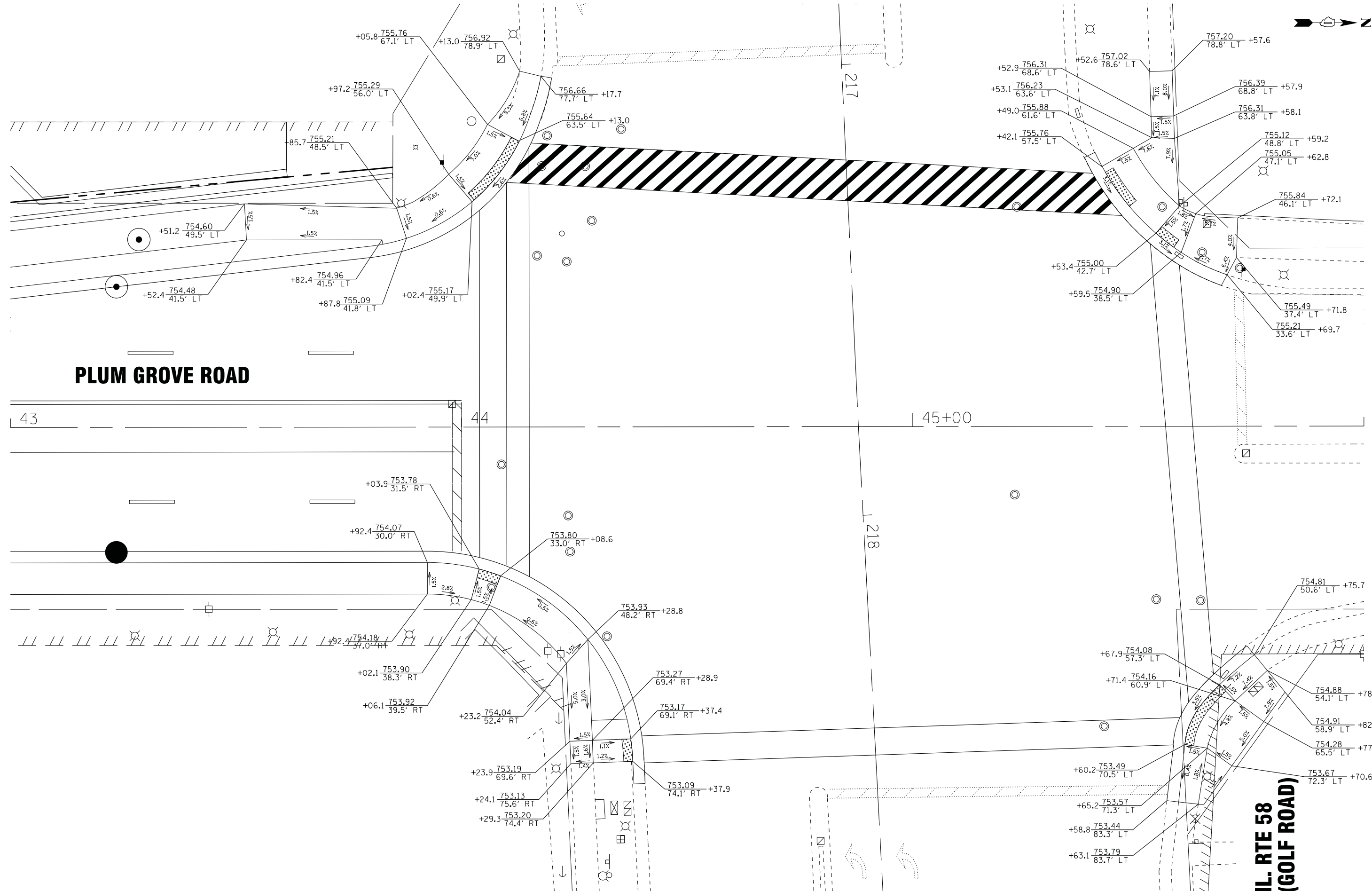
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAIL - PLUM GROVE ROAD
AT WHALOM LANE**

SCALE: 1"=10'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	167
				CONTRACT NO. 61E29
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



PLUM GROVE ROAD

**IL RTE 58
(GOLF ROAD)**

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BAXTER & WOODMAN
 Consulting Engineers

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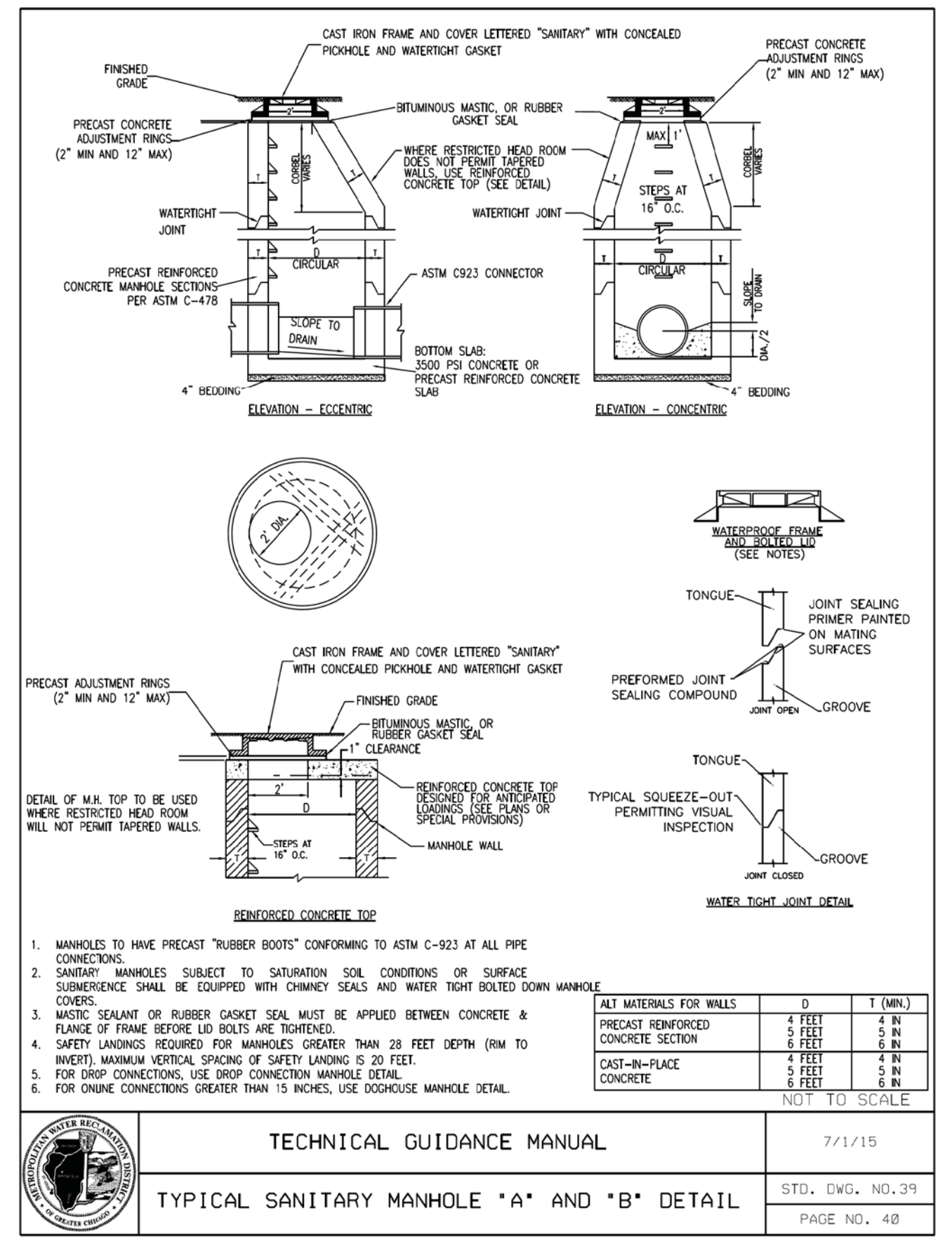
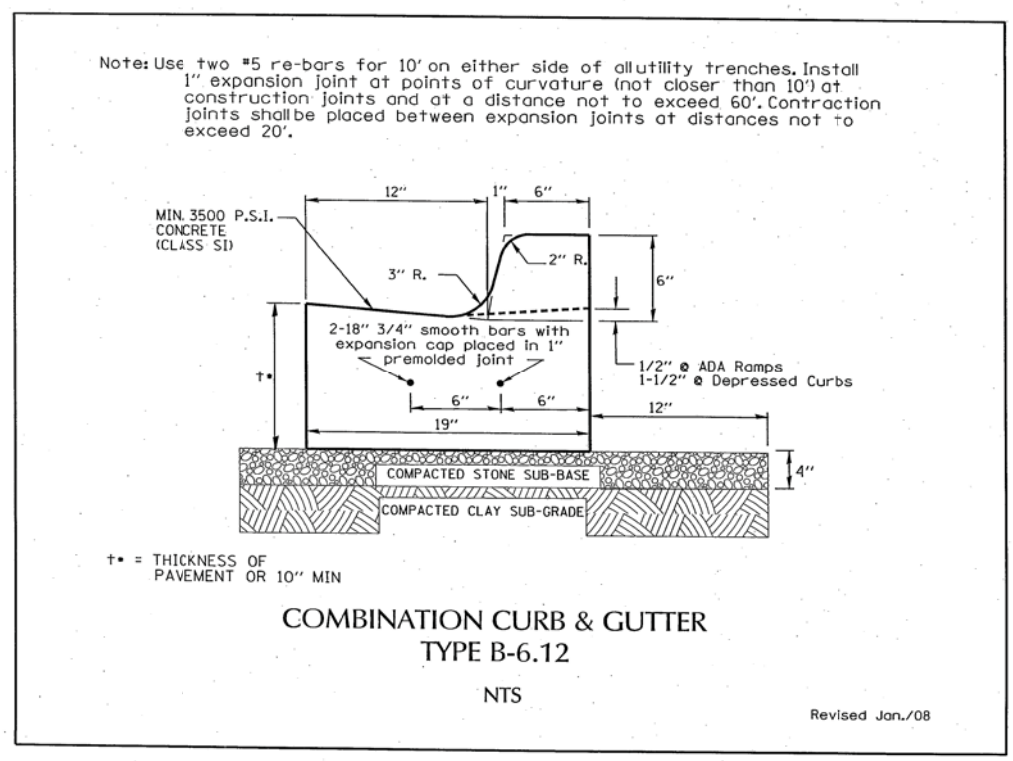
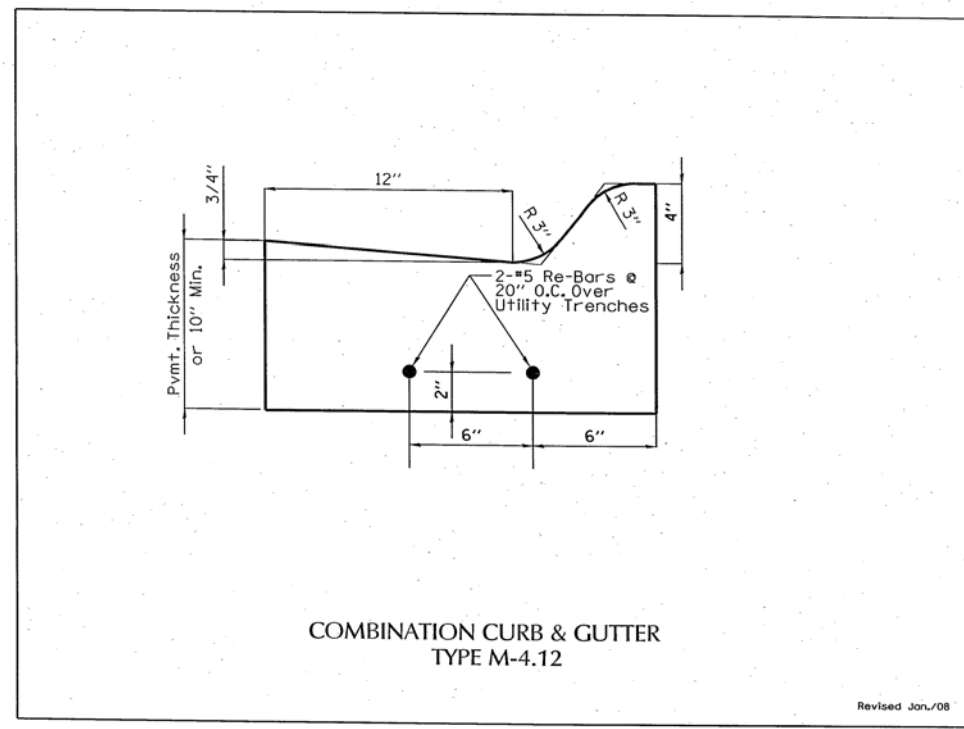
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAIL - PLUM GROVE ROAD
 AT IL RTE 58 (GOLF ROAD)**

SCALE: 1"=10'

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	170
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

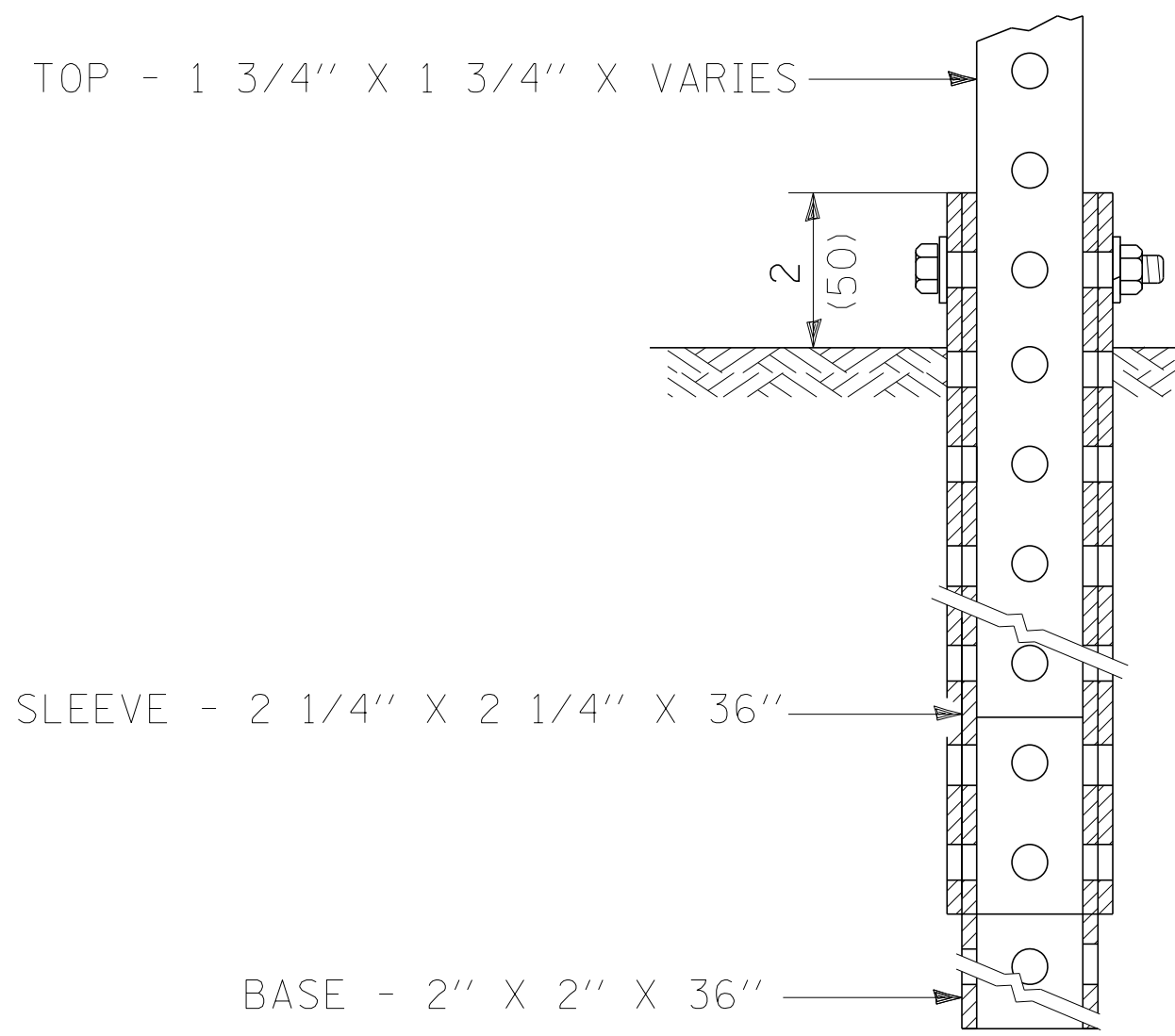
MISCELLANEOUS DETAILS

SCALE: STA. TO STA.

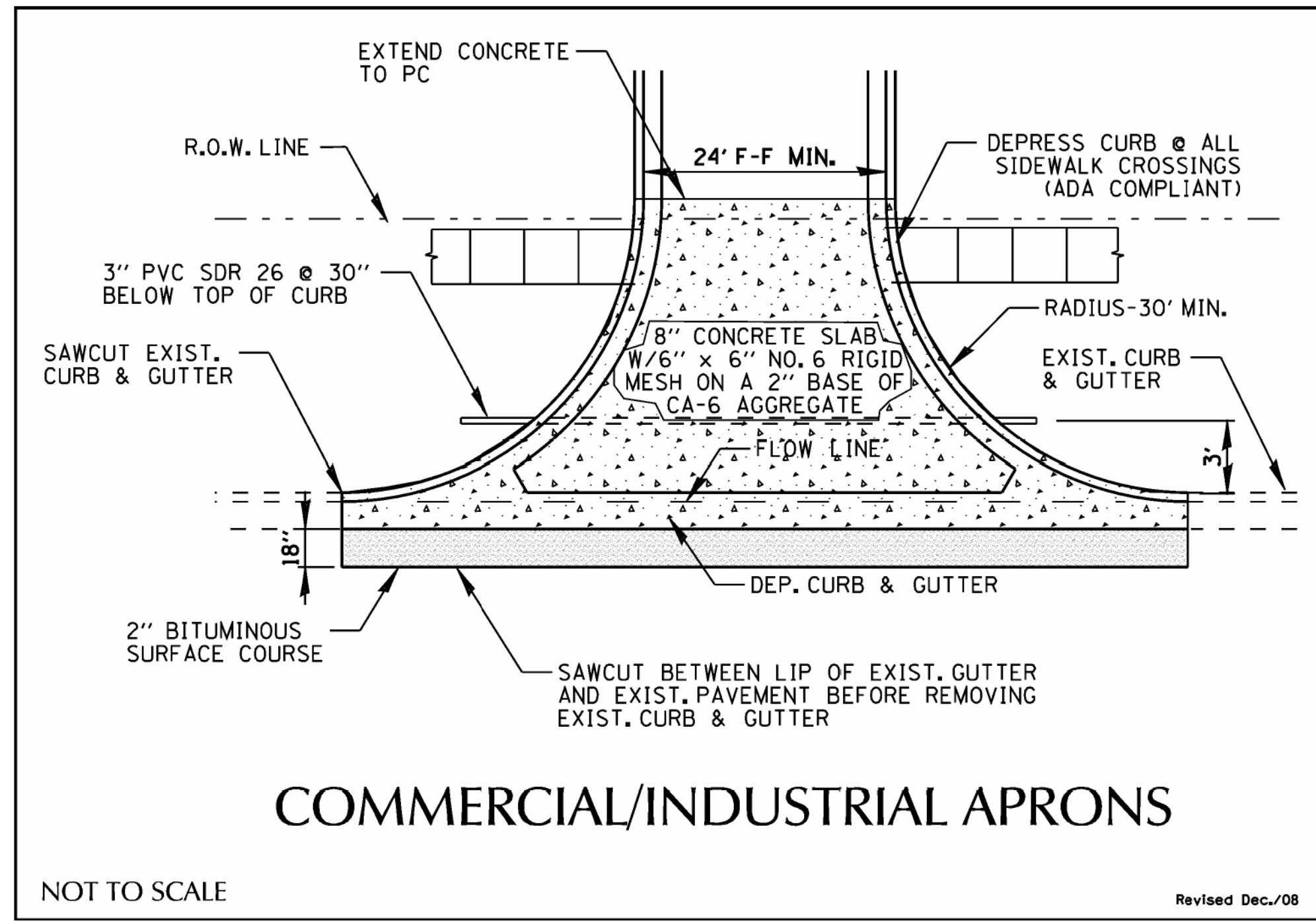
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TECHNICAL GUIDANCE MANUAL
 TYPICAL SANITARY MANHOLE "A" AND "B" DETAIL

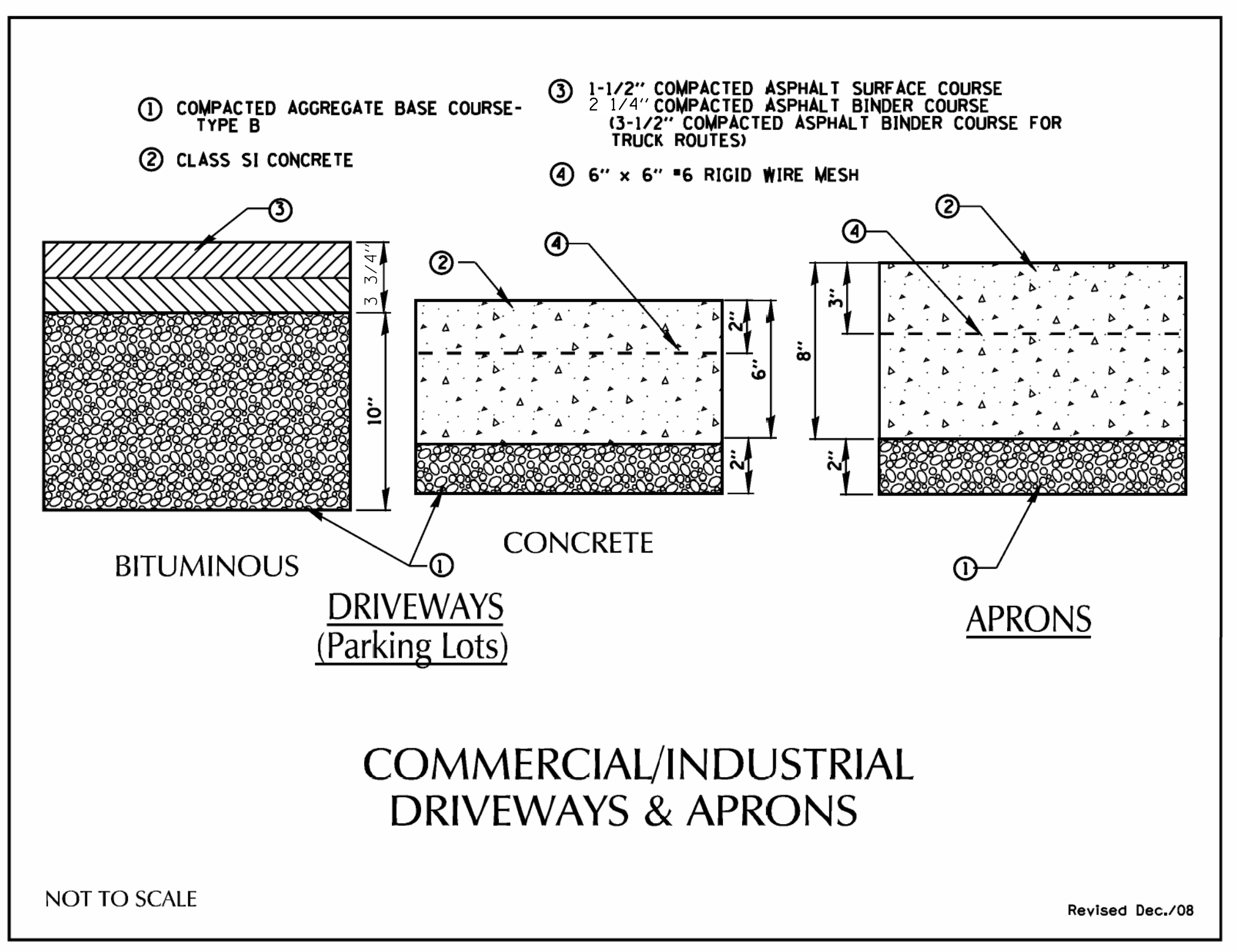
7/1/15
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 PAGE NO. 40



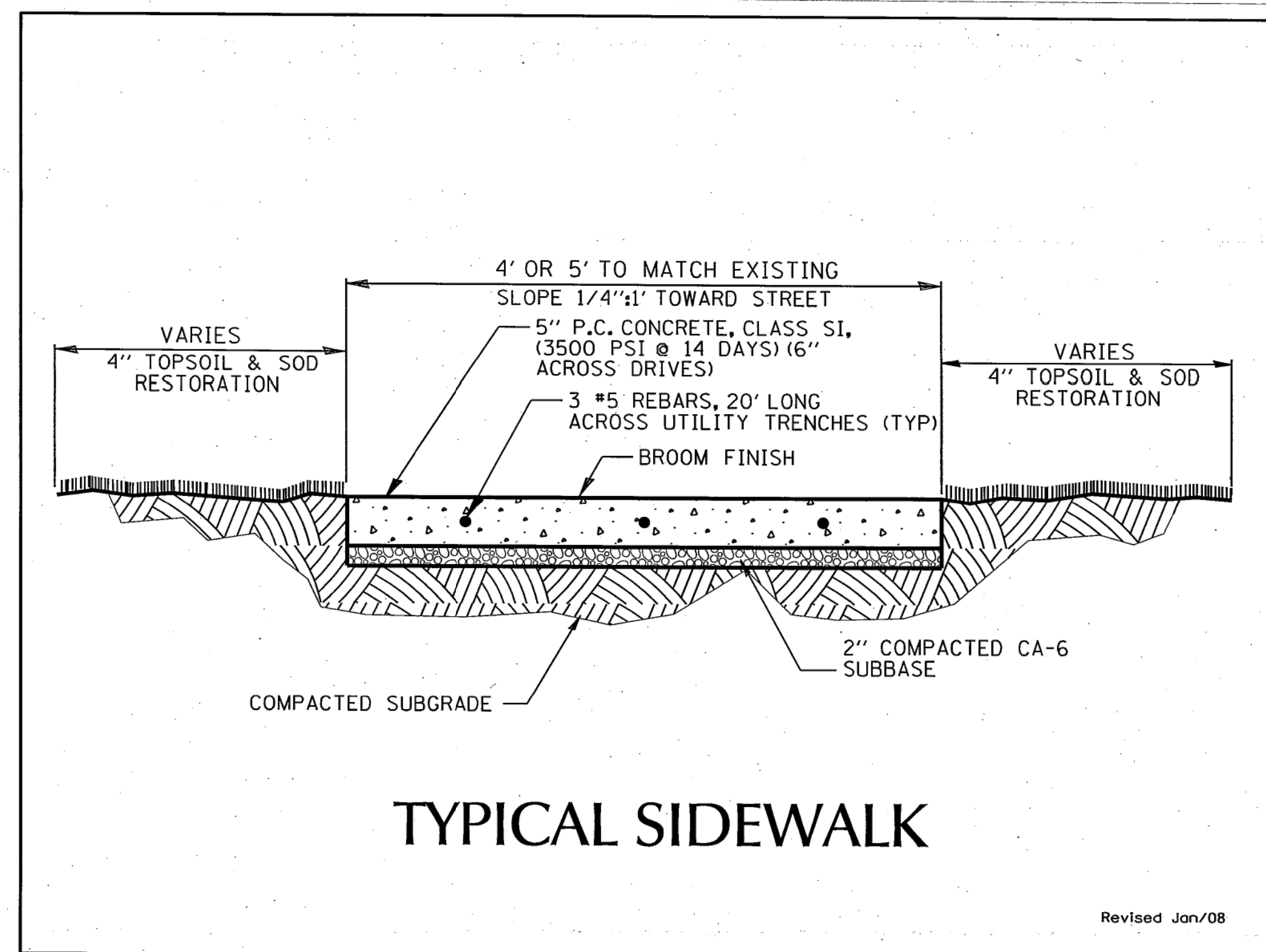
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SUPPORT MOUNT DETAIL
NOTE: CORNER BOLTS SHALL BE 5/16"



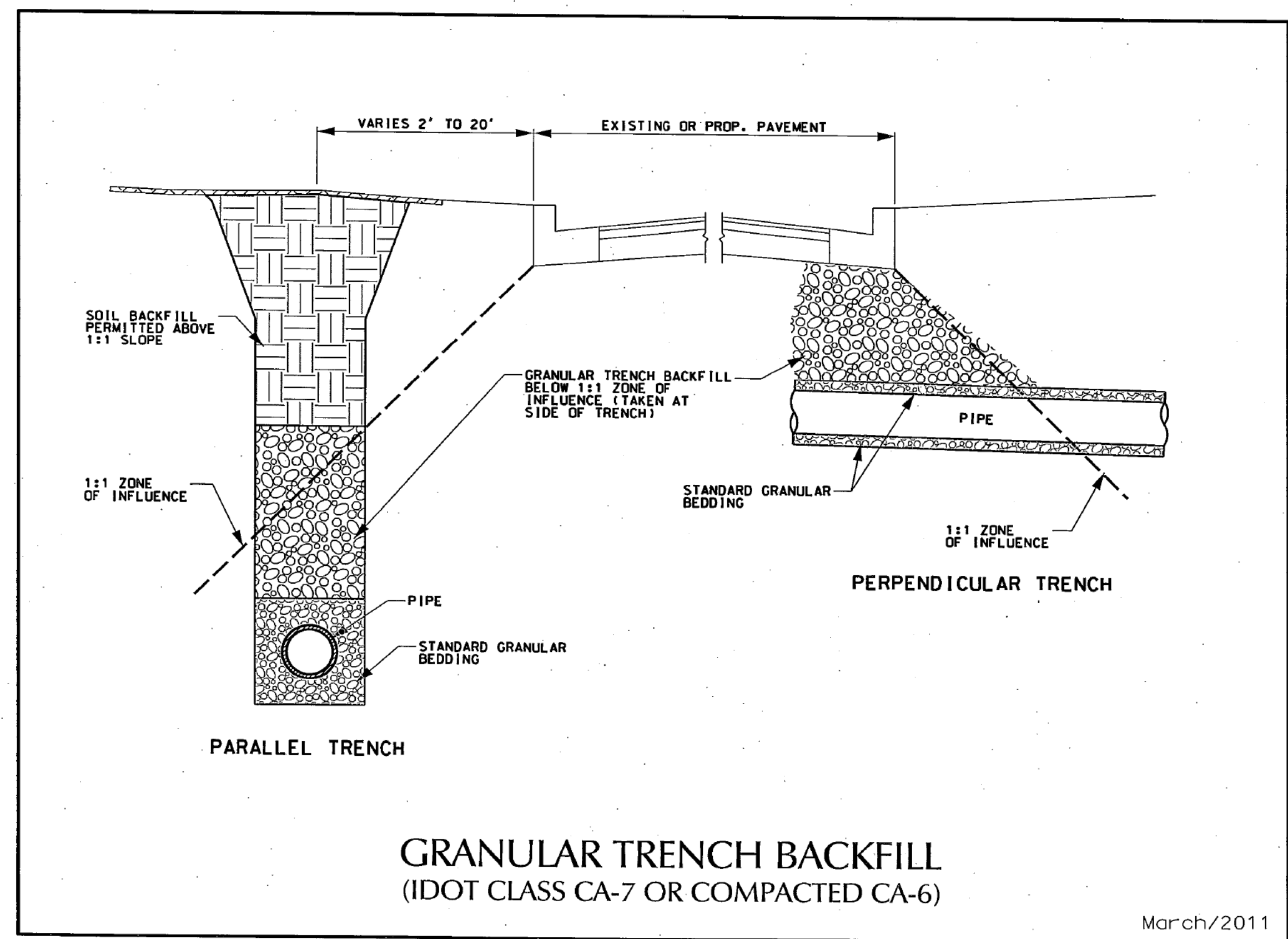
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NOT TO SCALE
Revised Dec./08
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COMMERCIAL/INDUSTRIAL DRIVEWAYS & APRONS
NOT TO SCALE
Revised Dec./08
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TYPICAL SIDEWALK
Revised Jan/08



GRANULAR TRENCH BACKFILL (IDOT CLASS CA-7 OR COMPACTED CA-6)
March/2011

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DESIGNED - AMW	REVISED -
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CHECKED - DJS	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-MiscDetails.dgn

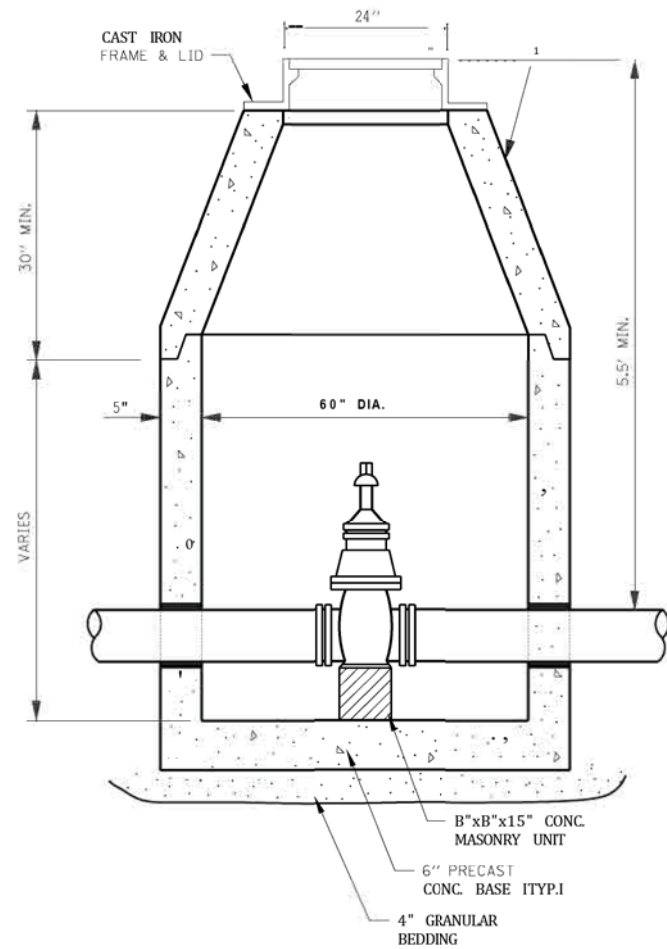
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

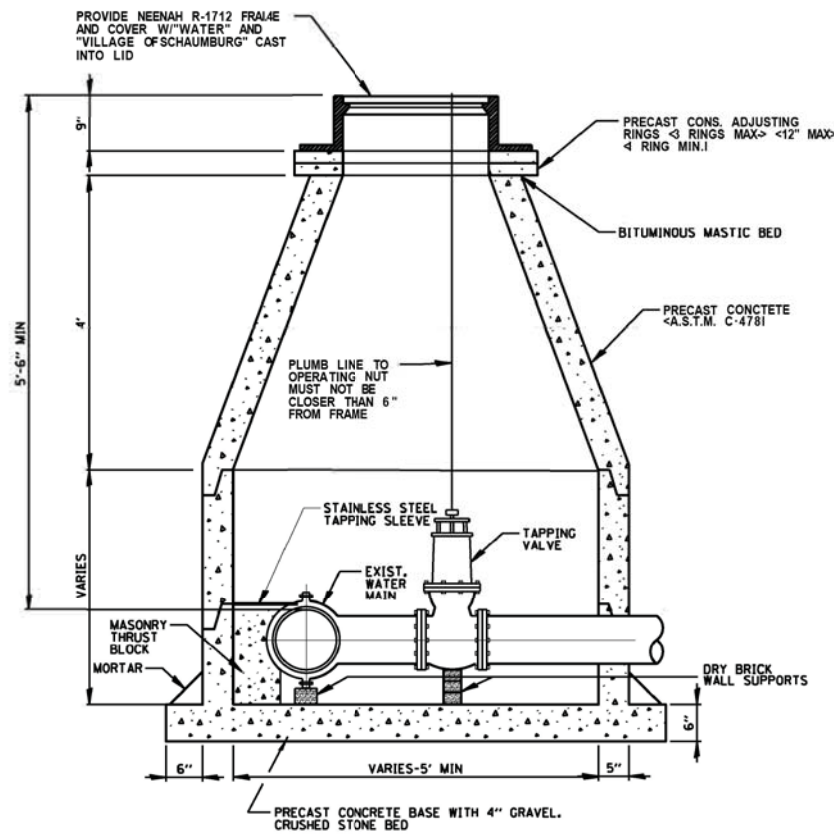
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	172
CONTRACT NO. 61E29			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT C-91-060-16	

12" S VALVES, CONCENTRIC CONES
16" 2 VALVES, ECCENTRIC CONES



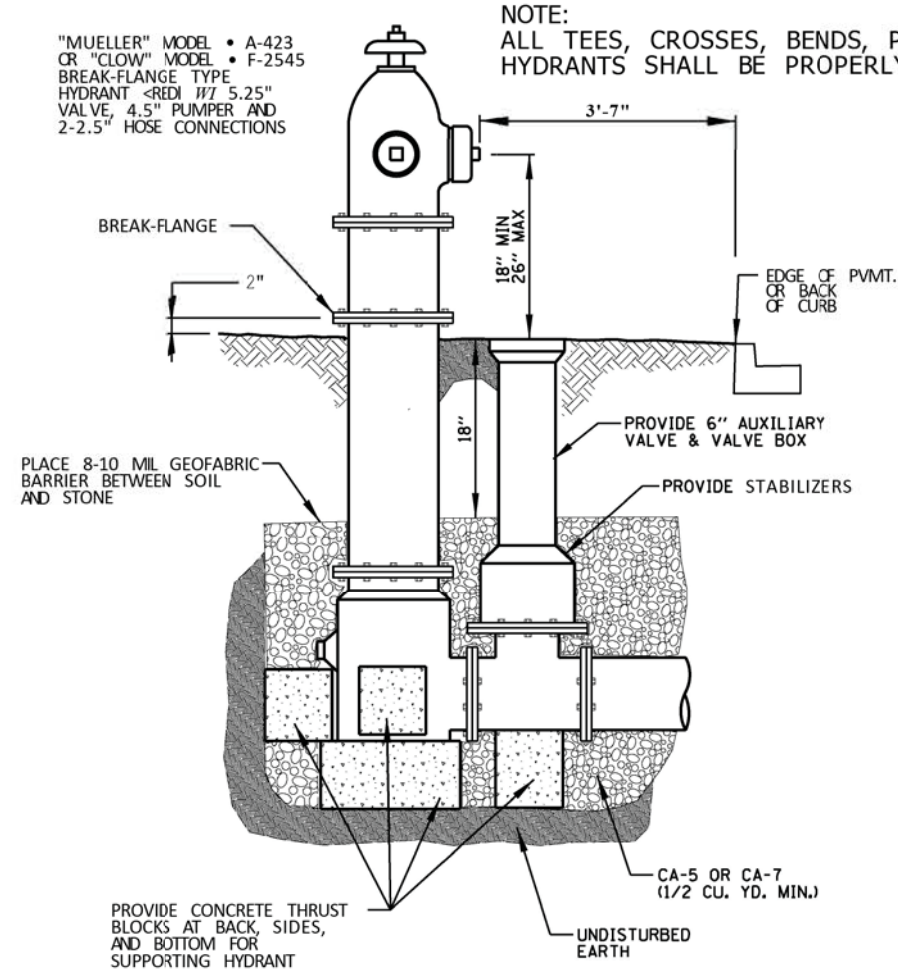
VALVE VAULT TYPE A



1. PIPE OPENINGS TO BE CAST INTO WALL.
2. PRECAST CONCRETE BASE TO BE CAST INTEGRAL WITH LOWEST WALL SECTION.
3. PRECAST SECTIONS TO BE JOINED WITH TONGUE AND GROOVE JOINTS SEALED WITH MASTIC TYPE BITUMINOUS JOINTING COMPOUND.
4. MASONRY THRUST BLOCK TO BE FULL WIDTH OF SLEEVE.

PRESSURE CONNECTION IN VAULT

"MUELLER" MODEL • A-423
OR "CLOW" MODEL • F-2545
BREAK-FLANGE TYPE
HYDRANT <REDI 1/2 5.25"
VALVE, 4.5" PUMPER AND
2-2.5" HOSE CONNECTIONS

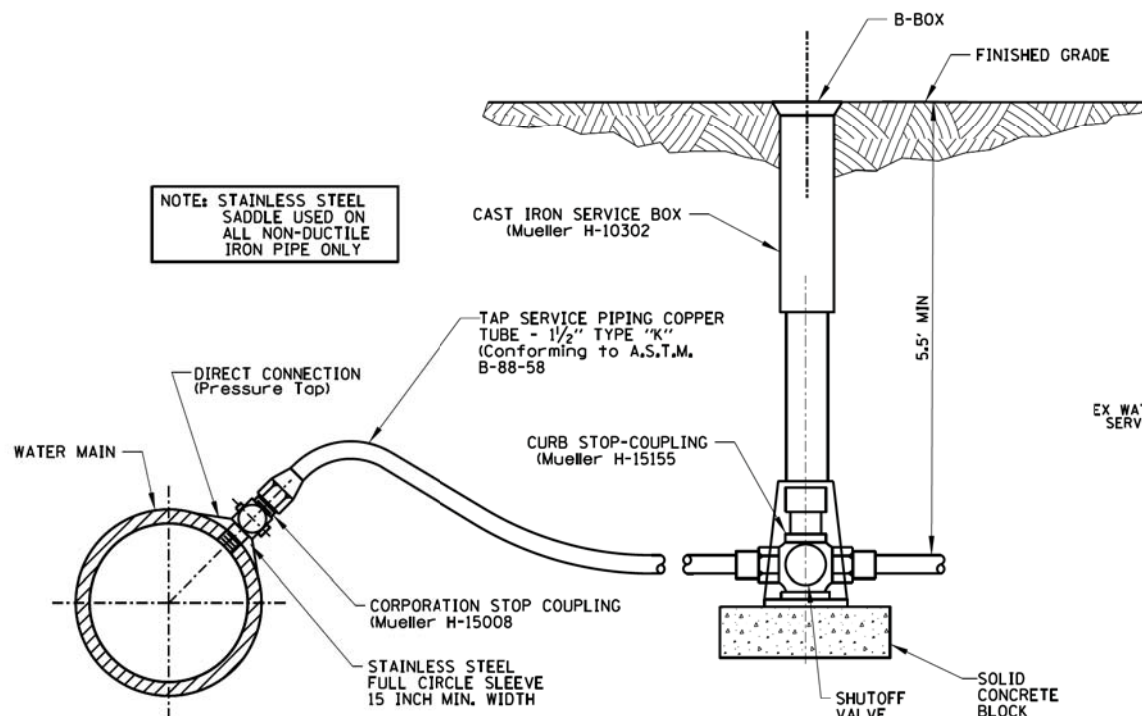


FIRE HYDRANT

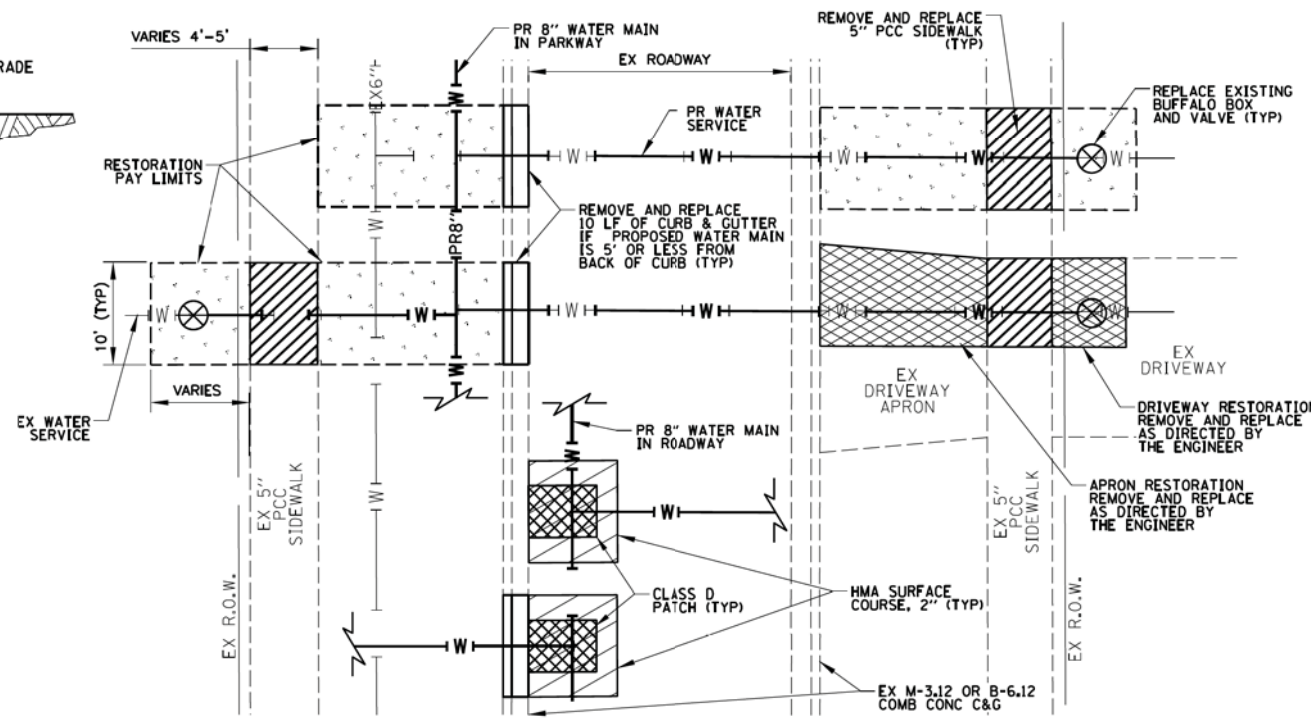
NOTE:
ALL TEES, CROSSES, BENDS, PLUGS, AND
HYDRANTS SHALL BE PROPERLY BLOCKED.



HYDRANT SIGN



RESIDENTIAL WATER SERVICE



WATER SERVICE RESTORATION DETAIL

DESIGNED - AMW	REVISED -
DRAWN - UKB	REVISED -
CHECKED - DJS	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-MiscDetails.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

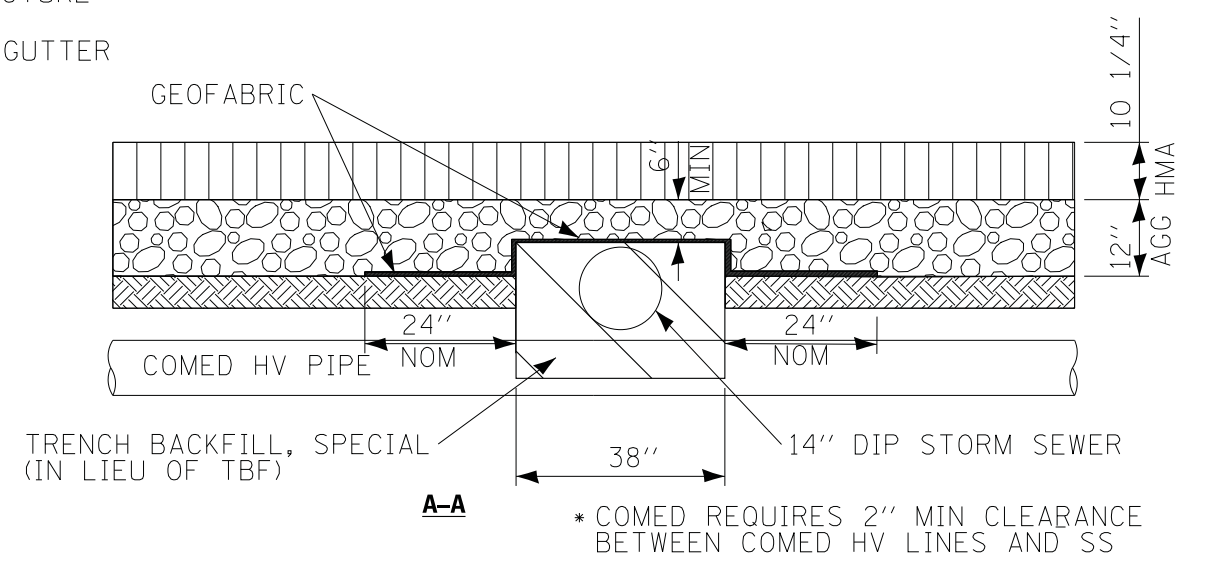
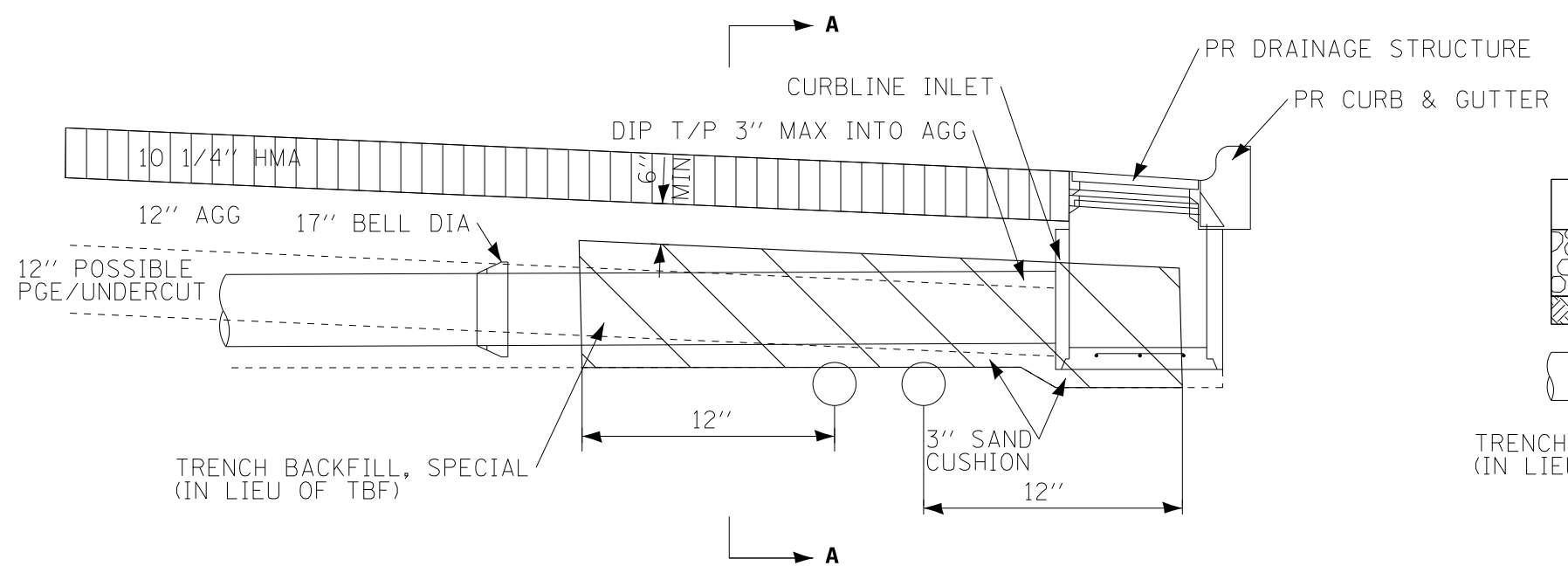
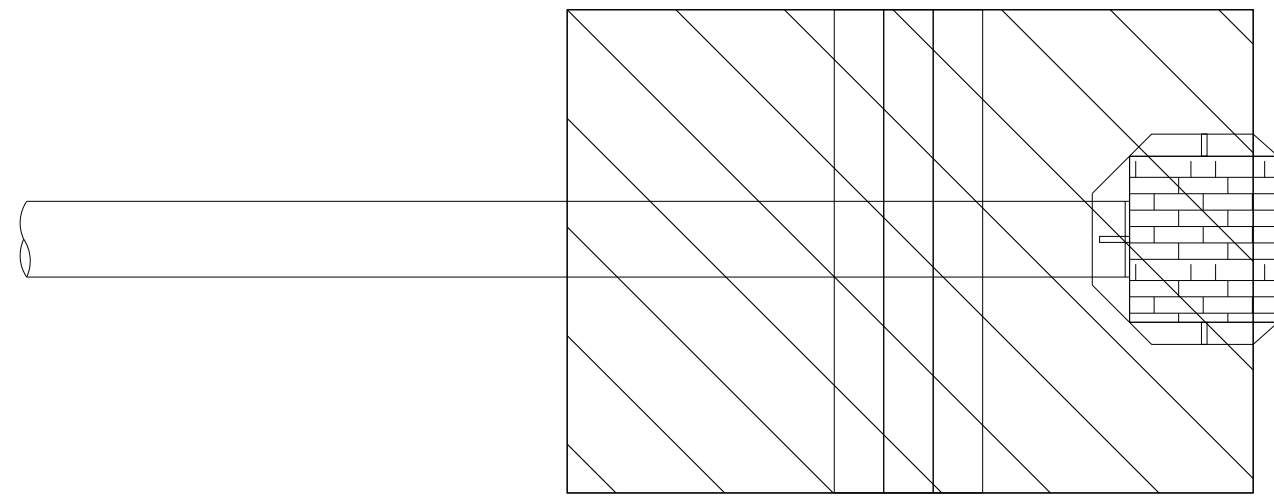
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	173
				CONTRACT NO. 61E29

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16

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BAXTER & WOODMAN
Consulting Engineers



TRENCH BACKFILL ADJACENT TO COMED TRANSMISSION LINE

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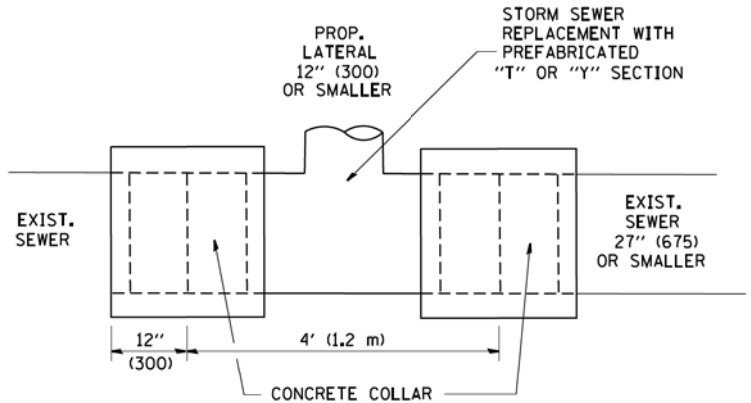
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

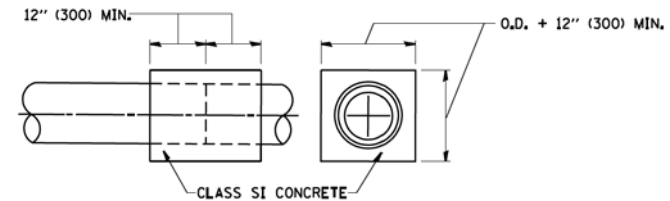
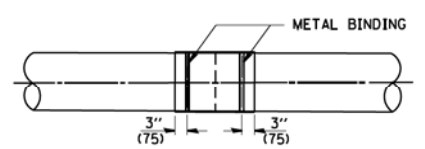
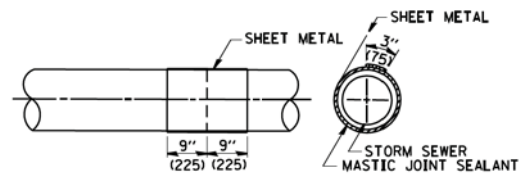
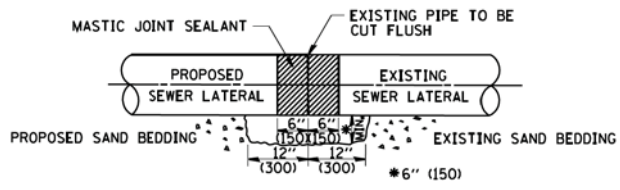
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	174
CONTRACT NO. 61E29				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



DETAIL "A"

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

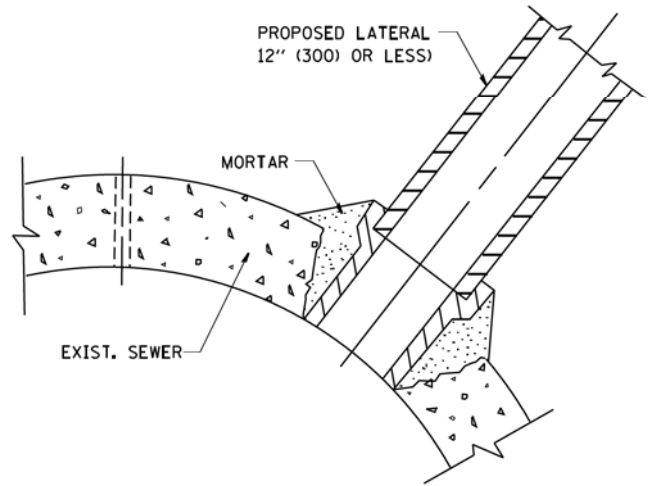


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM ...

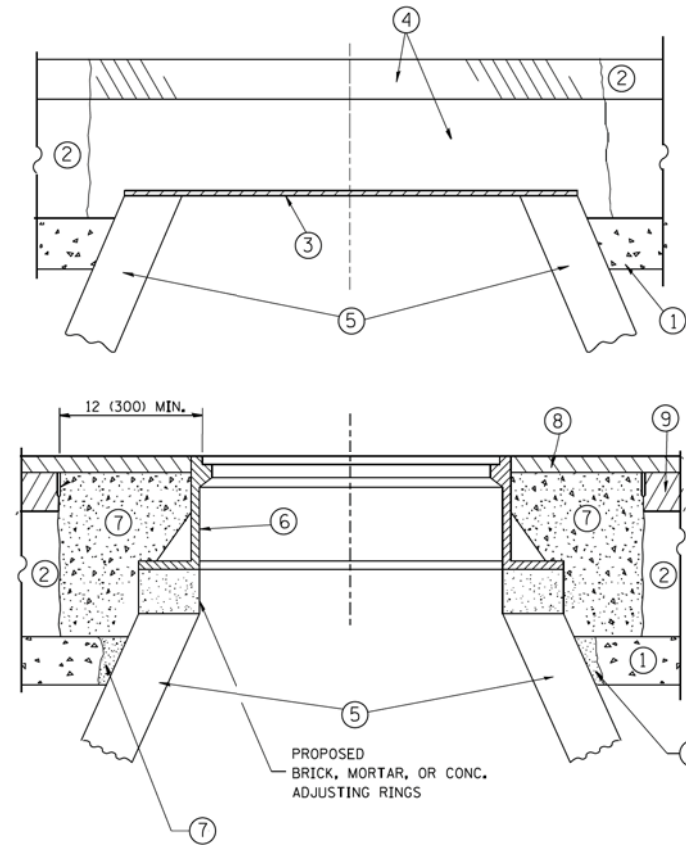
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	175
BD500-01 (BD-7)		CONTRACT NO. 61E29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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NOTES:

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

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

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

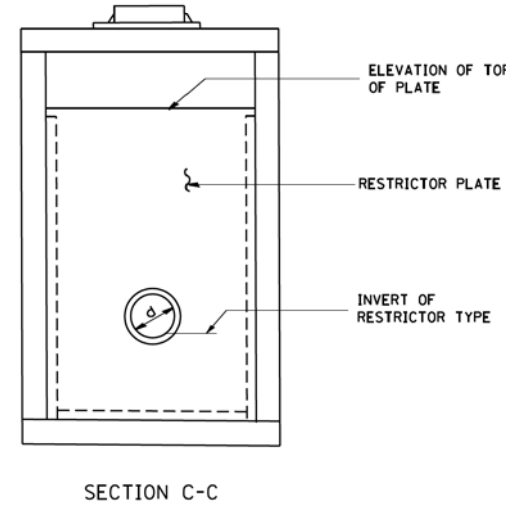
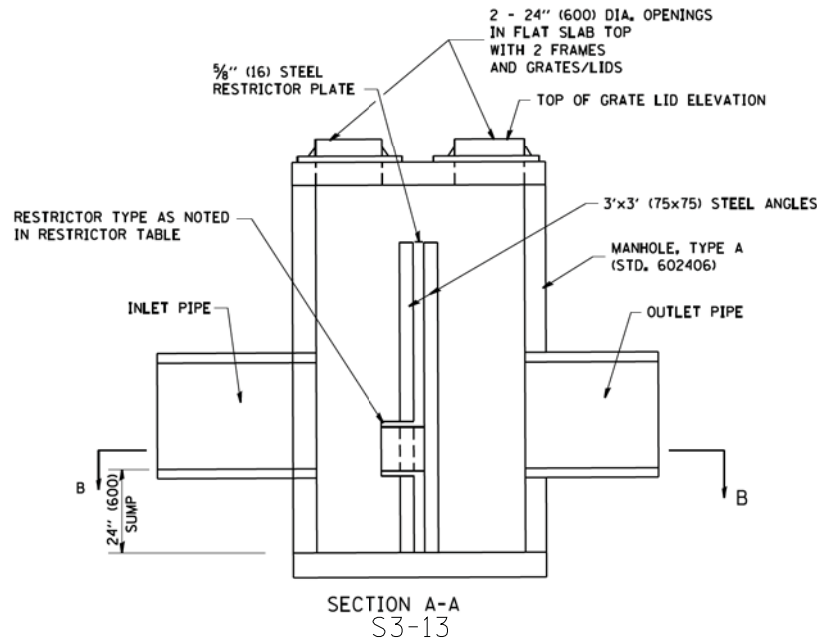
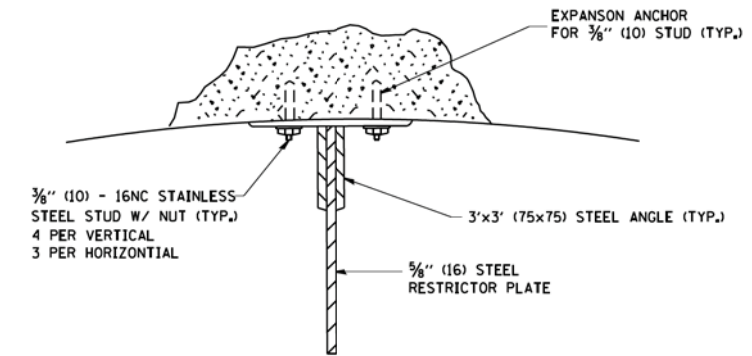
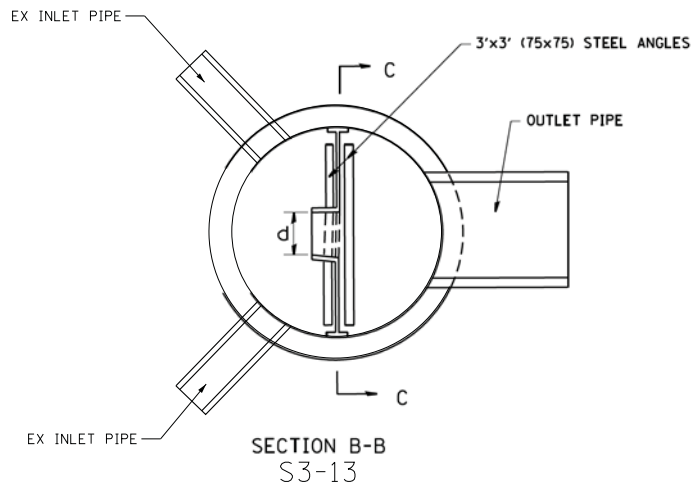
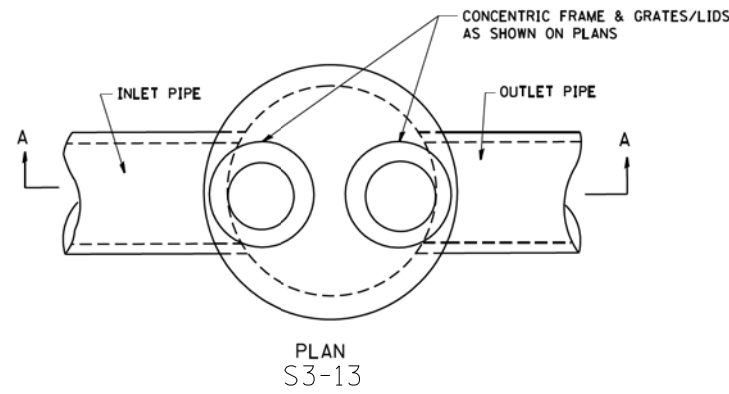
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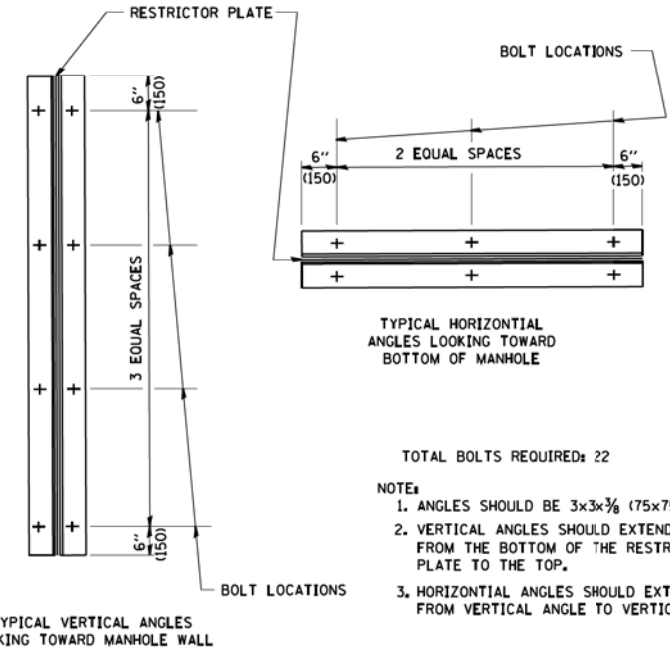
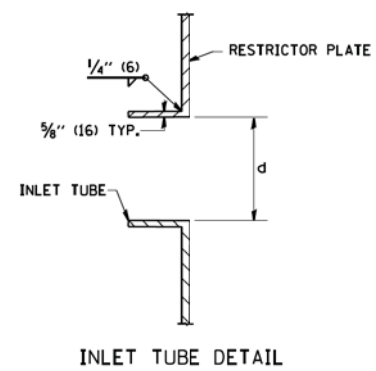
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

F.A.U. RTE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 176
BD600-03 (BD-8)		CONTRACT NO. 61E29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



- 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



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

- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (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.

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
S3-13	16+28, 53' RT	6'	T-1 F CL	2	8	726.09	733.27

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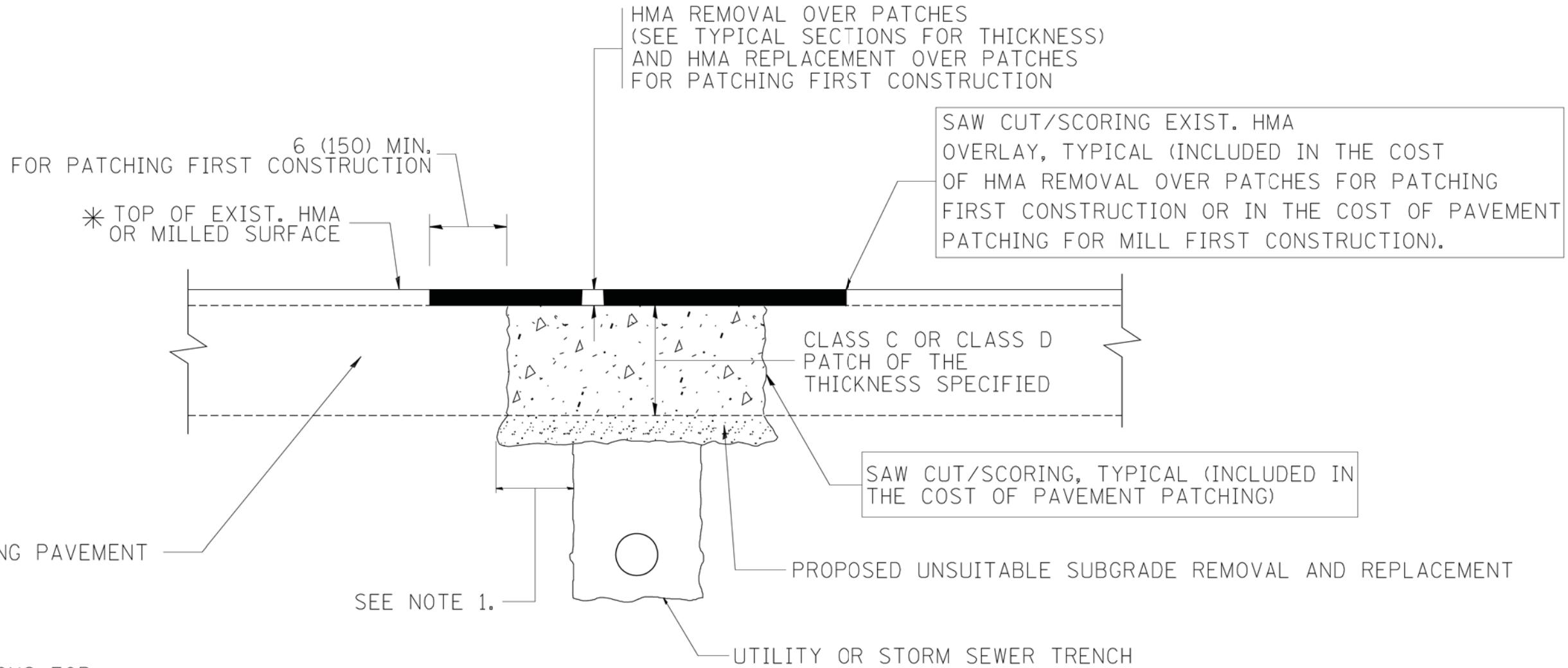
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

F.A.U. RTE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 177
BD600-04 (BD-12)		CONTRACT NO. 61E29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJ. C-91-060-16				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
 HMA SURFACED PAVEMENT**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	178
BD400-04 (BD-22)		CONTRACT NO. 61E29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY. SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

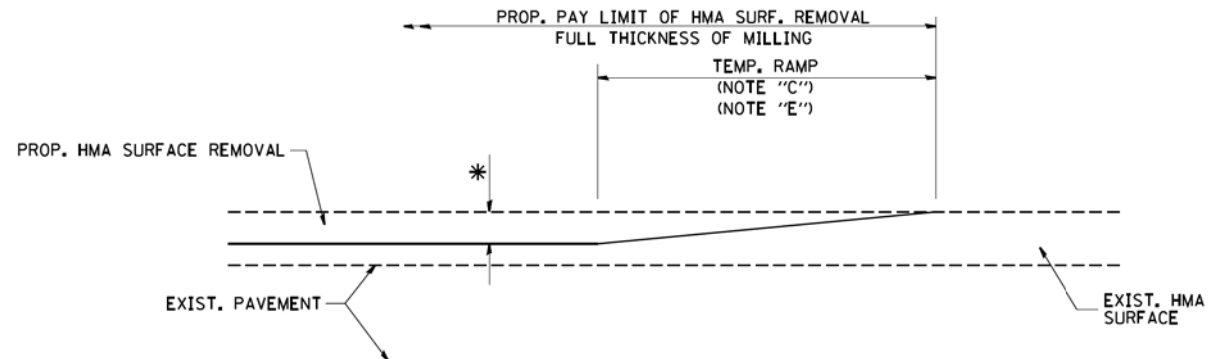
⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

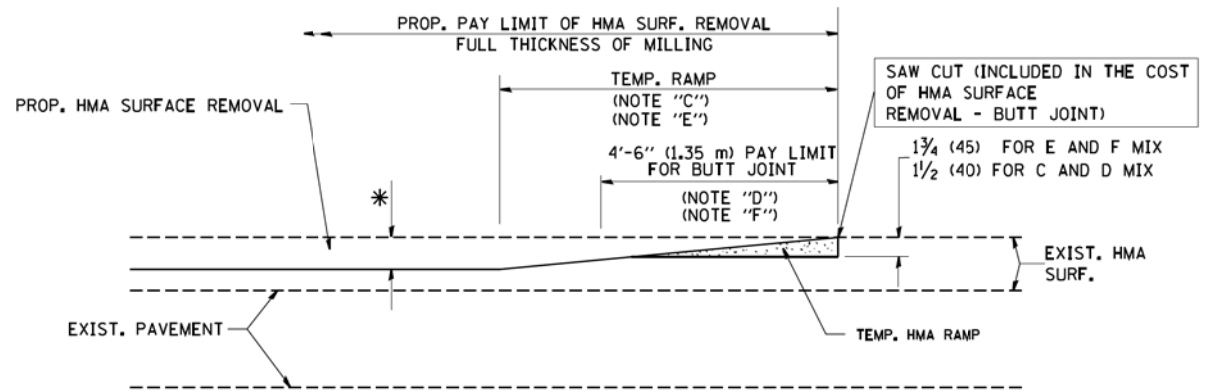
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	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 61E29		
			REVISED - R. BORO 12-15-09			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJ. EC-C-91-060-16				



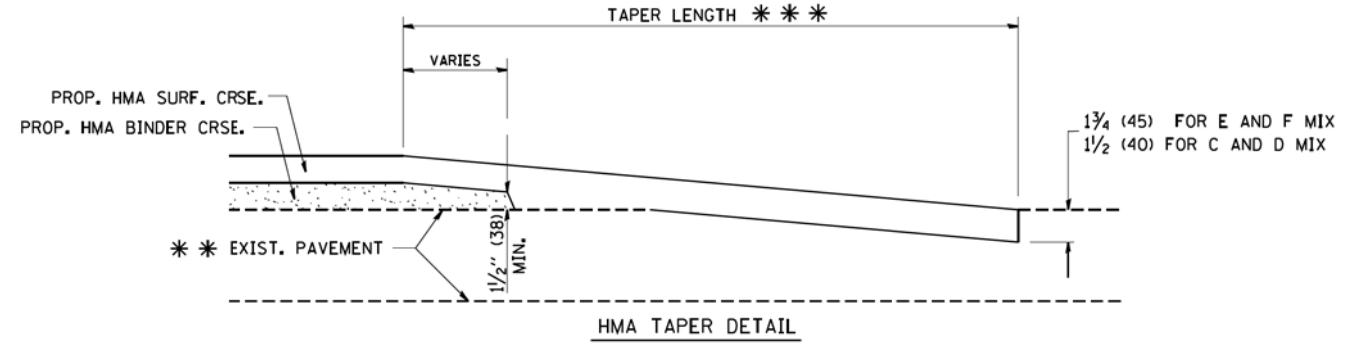
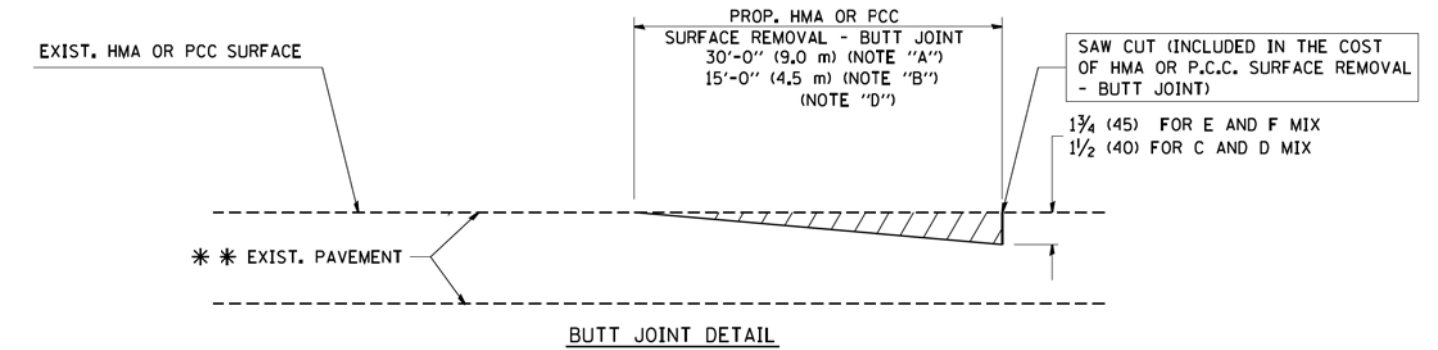
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



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

OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

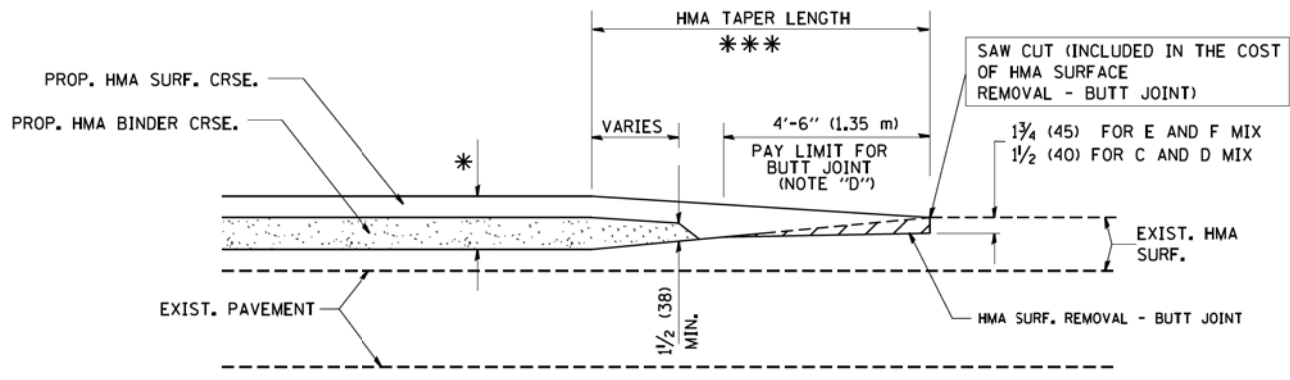
NOTES

- 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.



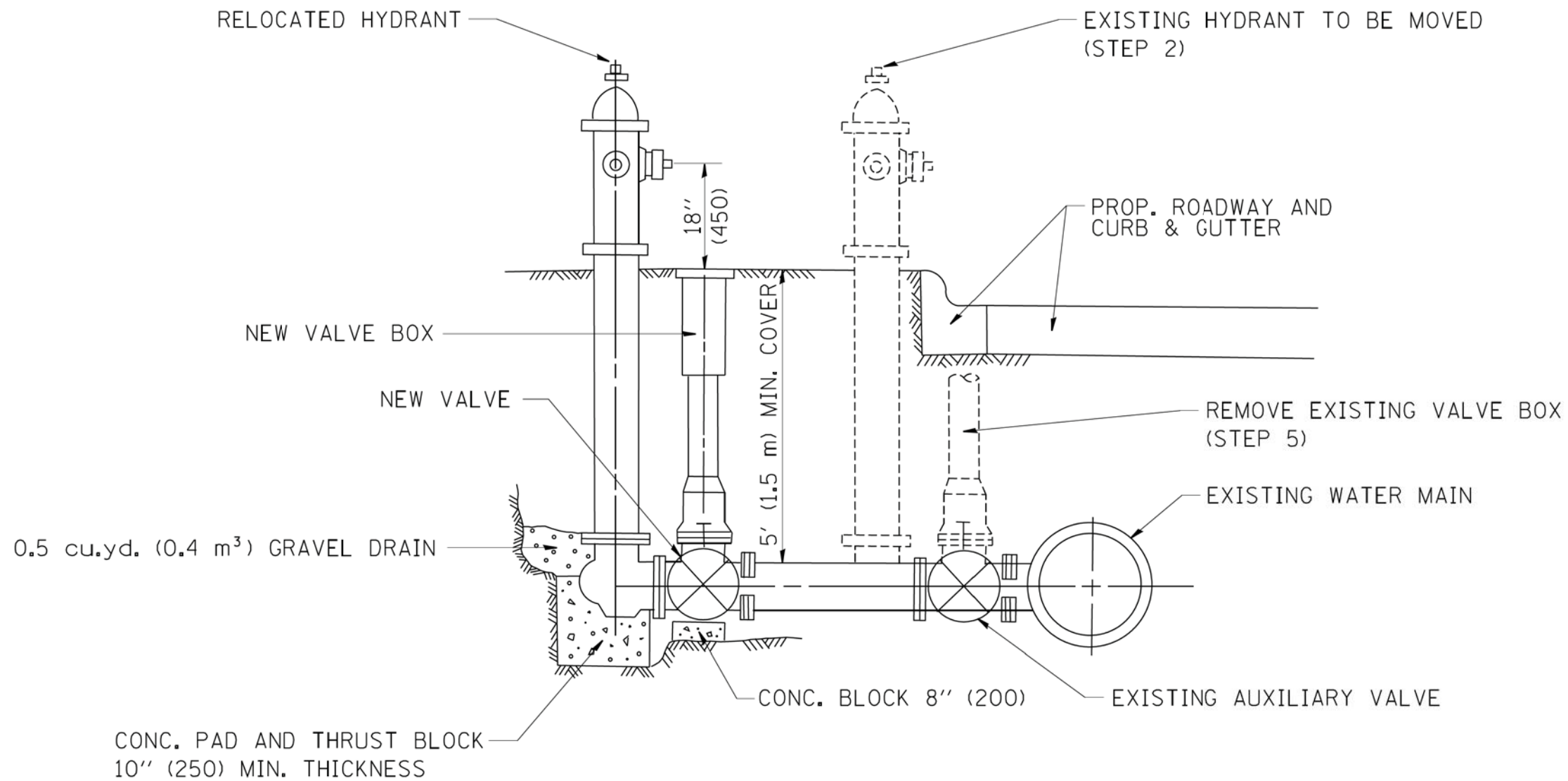
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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REVISOR - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISOR - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	2582	14-00115-00-PV	COOK	199	180
		BD400-05 BD32		CONTRACT NO. 61E29		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT-91-060-16				



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.

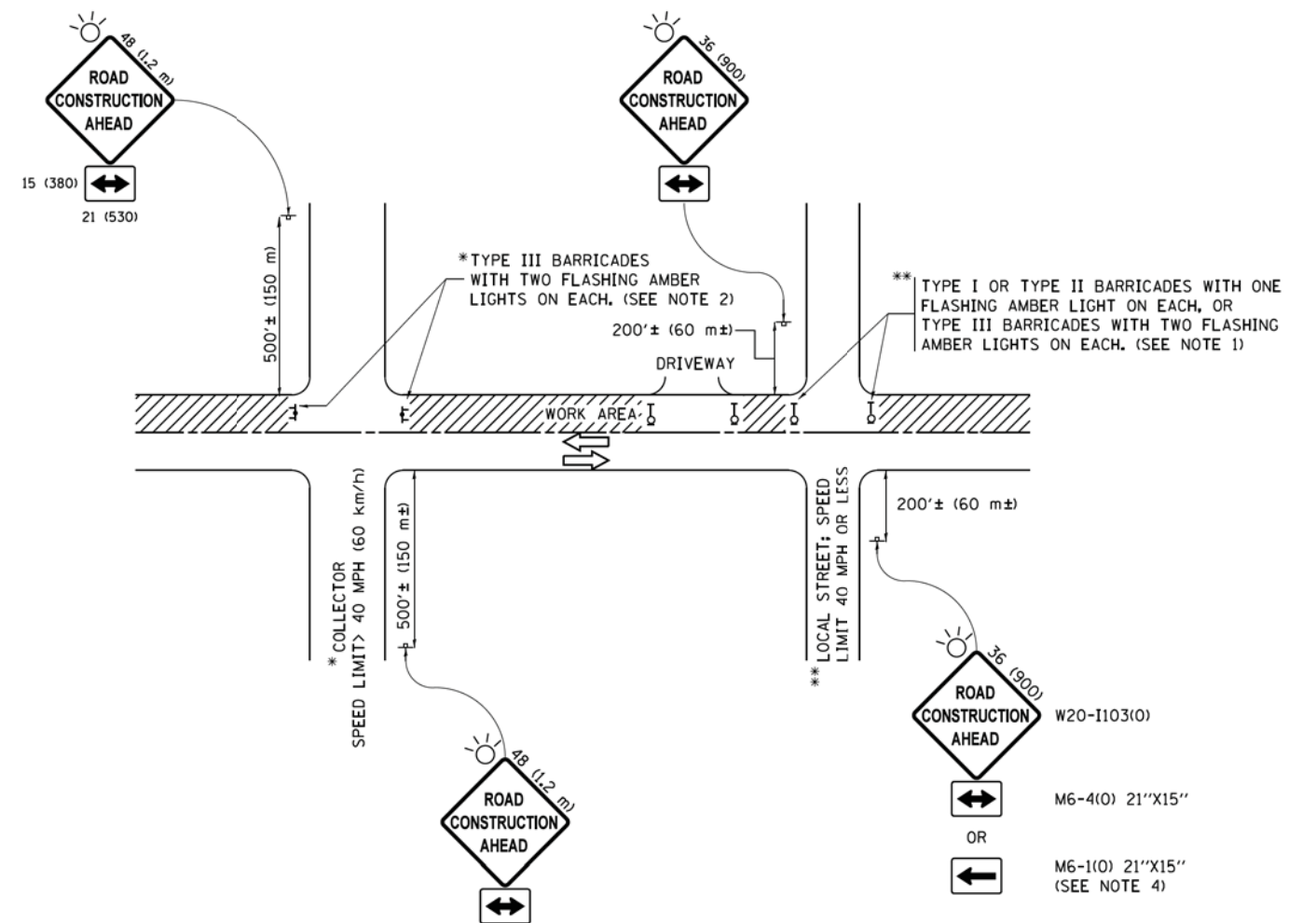
FIRE HYDRANT TO BE MOVED

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

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FILE NAME = W:\diststd\22x34\bd36.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED - R. SHAH 09-09-94 REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A.U. RTE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 181
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD-36		CONTRACT NO. 61E29	
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT-91-060-16							

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NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. 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).
5. 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.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. 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.

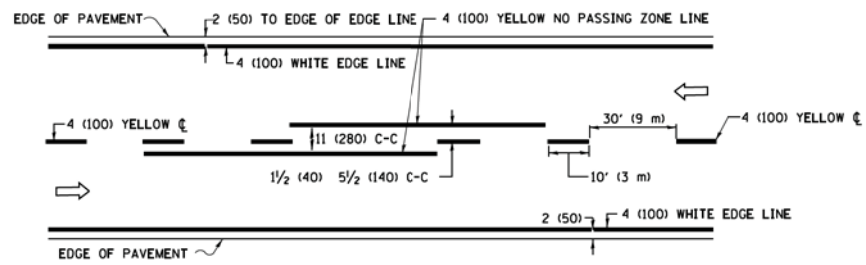
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

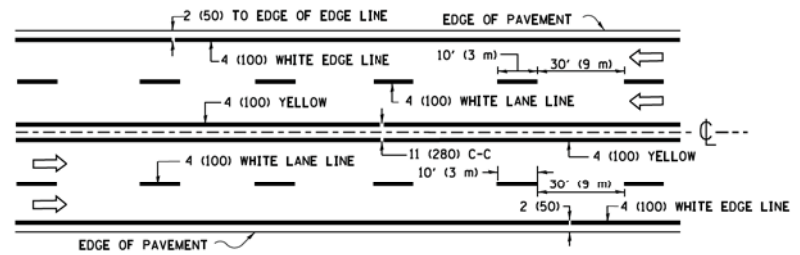
**TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

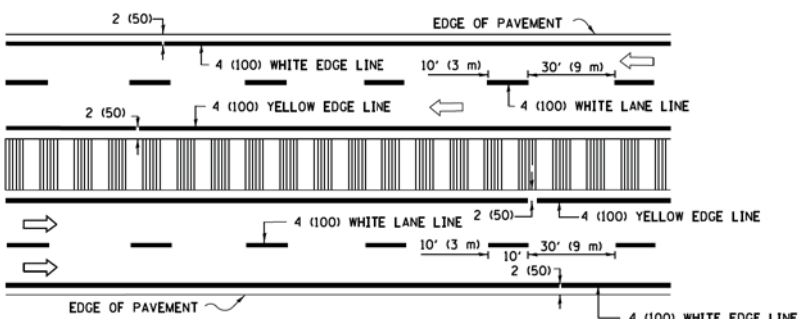
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2582	14-00115-00-PV	COOK	199	182
TC-10		CONTRACT NO. 61E29		
ILLINOIS FED. AID PROJECT-91-060-16				



2-LANE ROADWAY

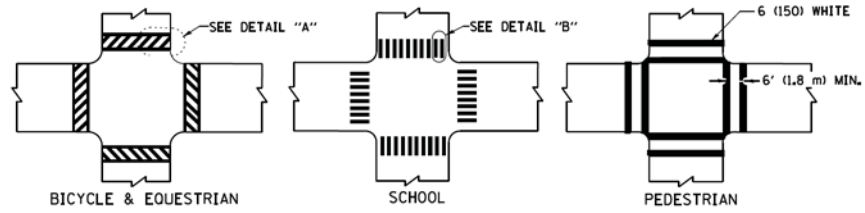


MULTI-LANE UNDIVIDED



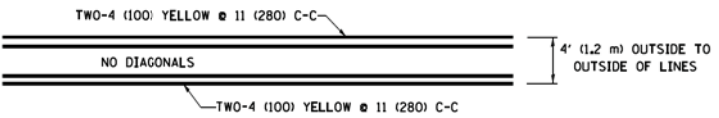
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

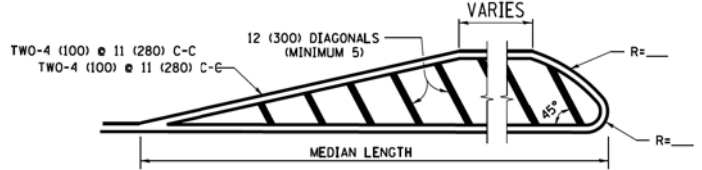


TYPICAL CROSSWALK MARKING

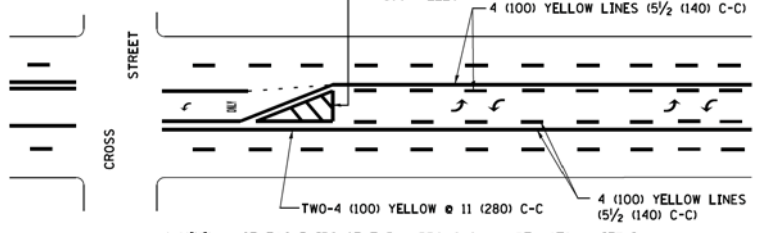
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



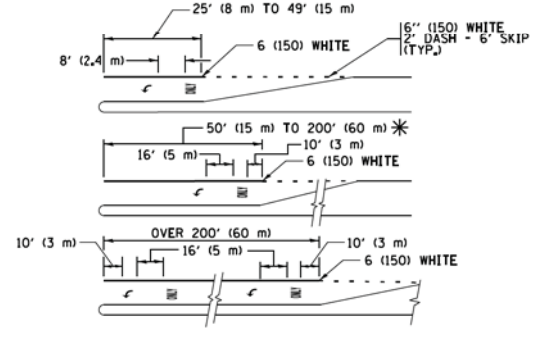
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



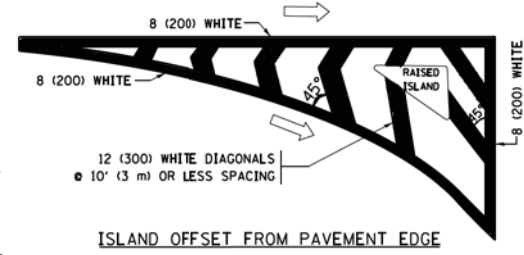
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



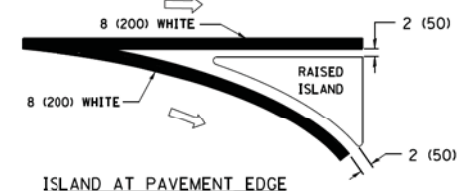
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

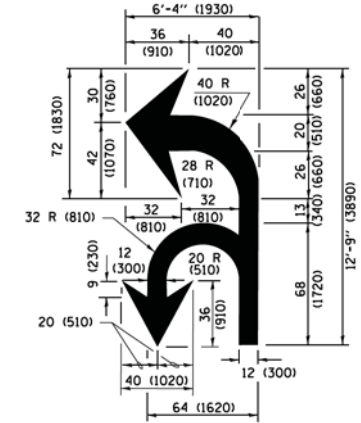
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



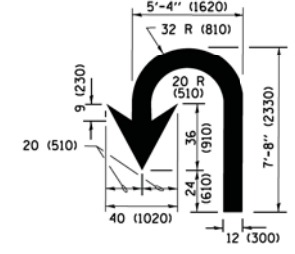
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; WHITE; WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM ... 5/2/2018

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	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	183
TC-13		CONTRACT NO. 61E29		
ILLINOIS/FED. AID PROJECT-91-060-16				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

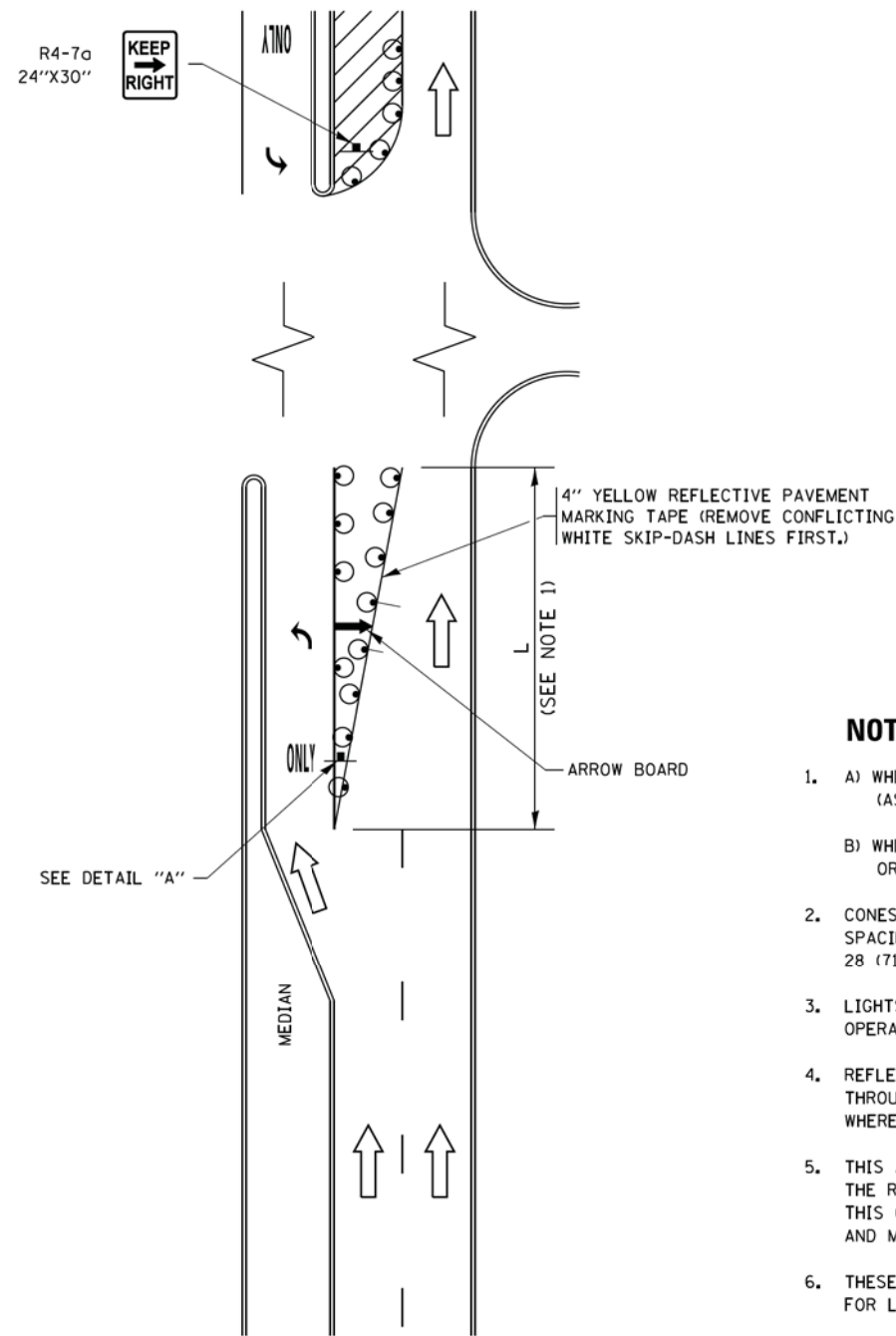


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

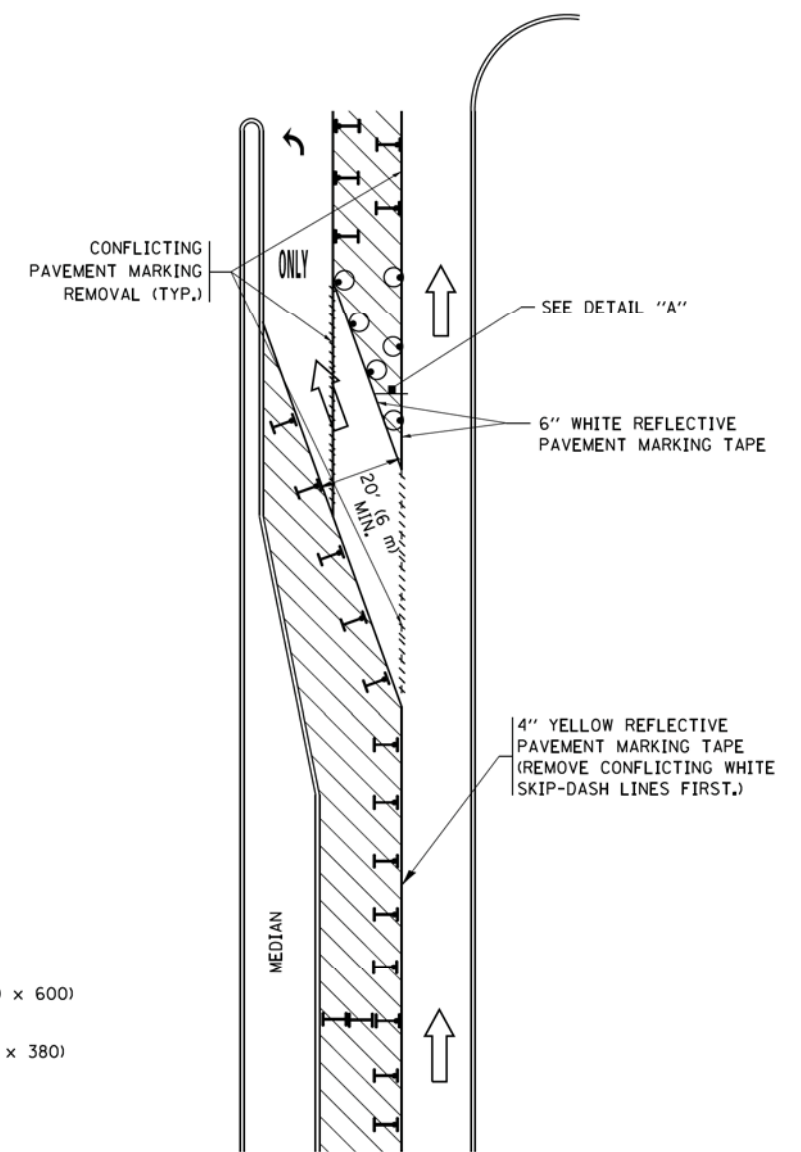


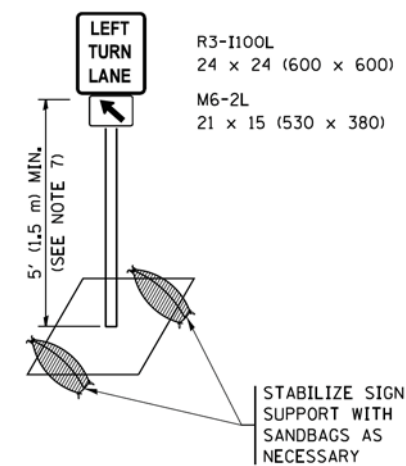
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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 21 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 PRE 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.

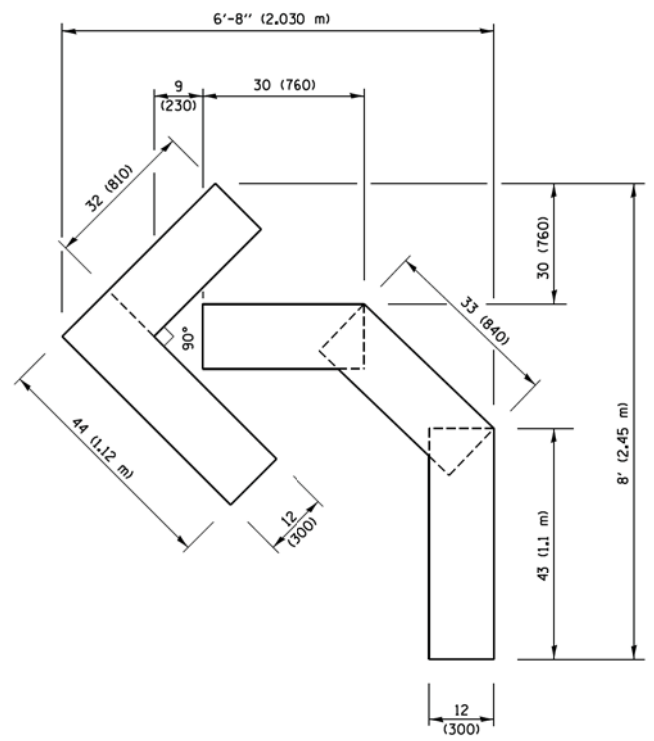


DETAIL A

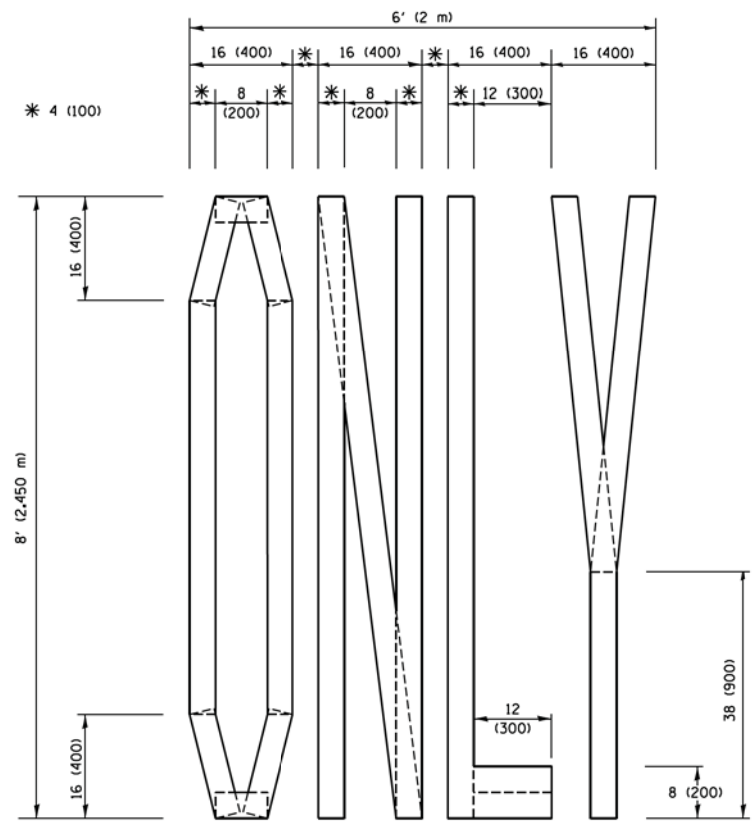
All dimensions are in inches (millimeters) unless otherwise shown.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM ... 5/2/2016

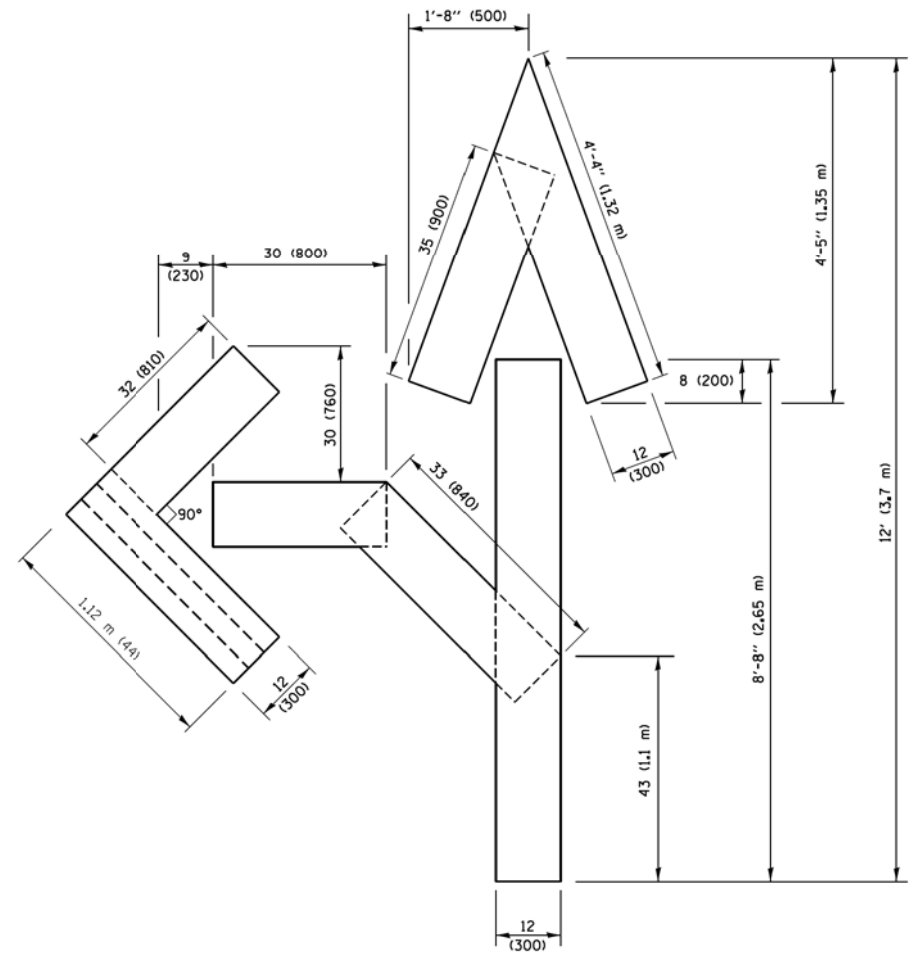
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Default	Default	REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13					2582	14-00115-00-PV	COOK	199	184
	PLOT SCALE = 50,0000 / 1 in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14			CONTRACT NO. 61E29				
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE			SHEET 1	OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT-91-060-16	



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

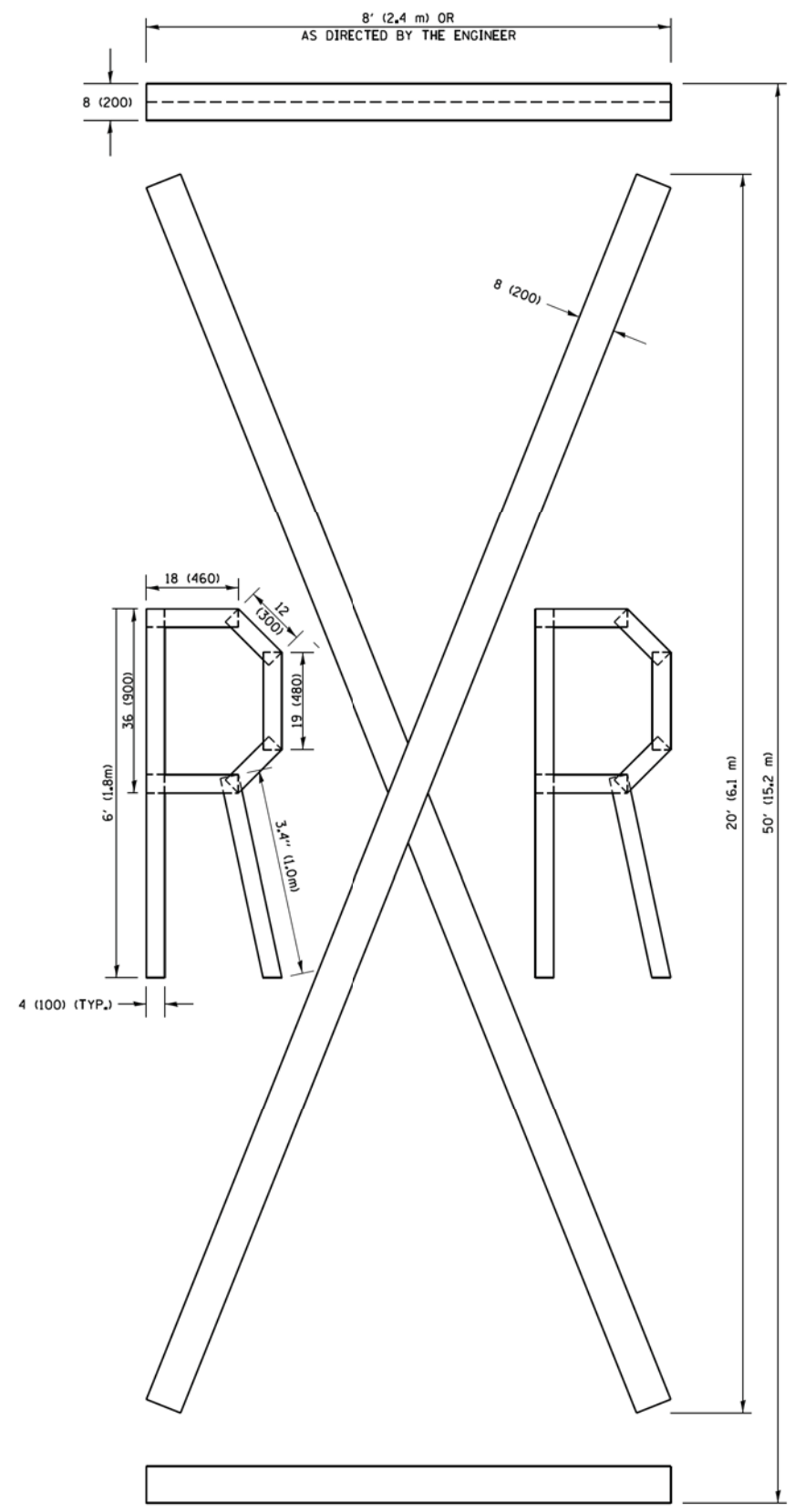


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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 USER NAME = footemj
 DESIGNED - T. RAMMACHER 03-02-98
 REVISED - E. GOMEZ 08-28-00
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 CHECKED -
 REVISED - E. GOMEZ 08-28-00
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 REVISED - A. SCHUETZE 09-15-16
 PLOT DATE = 9/15/2016

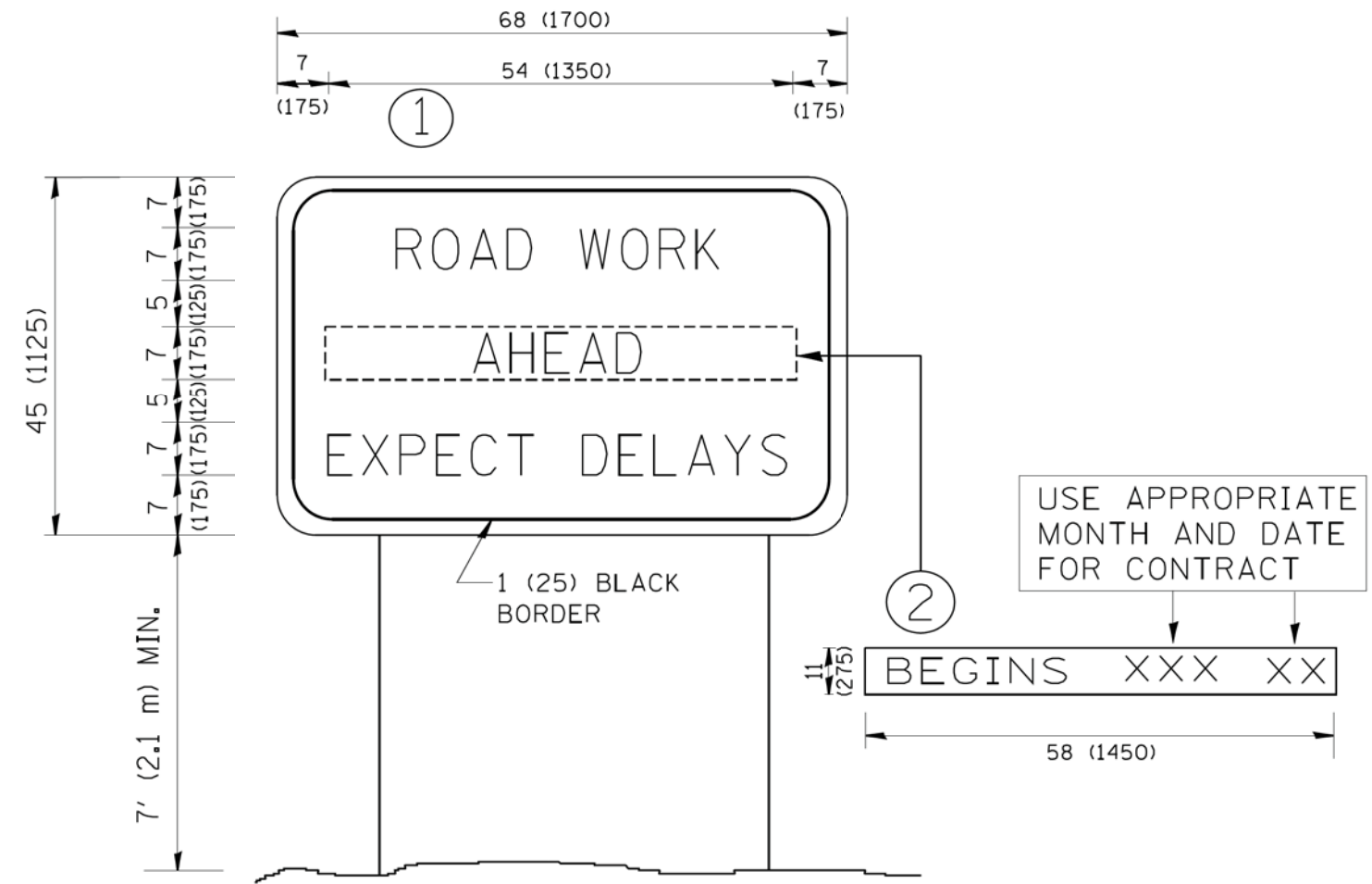
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	185
TC-16			CONTRACT NO. 61E29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT-91-060-16				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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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 =	USER NAME = geglano	DESIGNED -	REVISED - R. MIRS 09-15-97
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	PLOT DATE = 1/4/2008	DATE -	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.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	186
TC-22		CONTRACT NO. 61E29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C-91-060-16				



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".

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	187
TC-26		CONTRACT NO. 61E29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT-91-060-16				

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CHECKED - DJS	REVISED -
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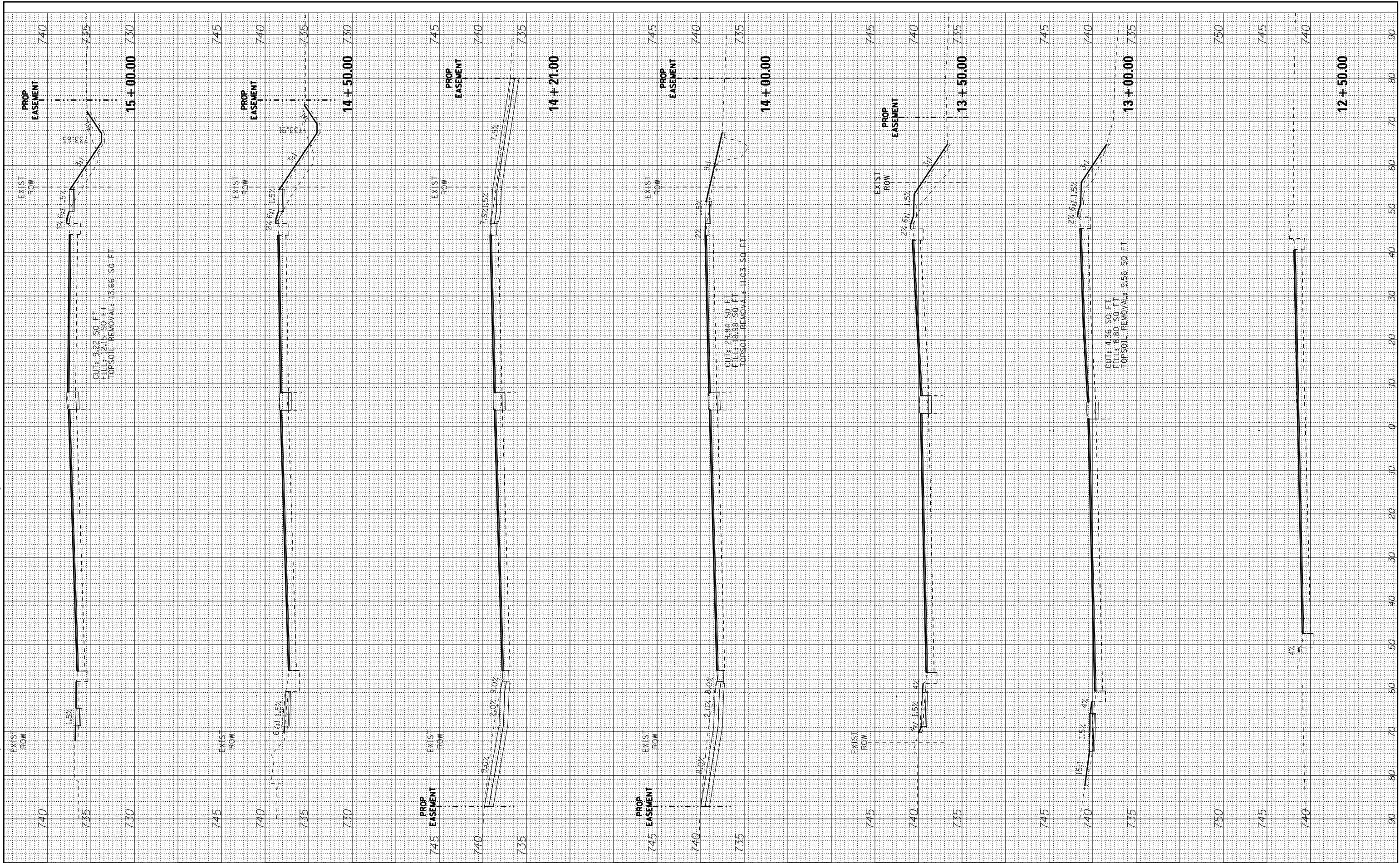
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 12+50.00 TO STA. 15+00.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 188
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				



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CHECKED - DJS	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-PlumGrve-XS.dgn

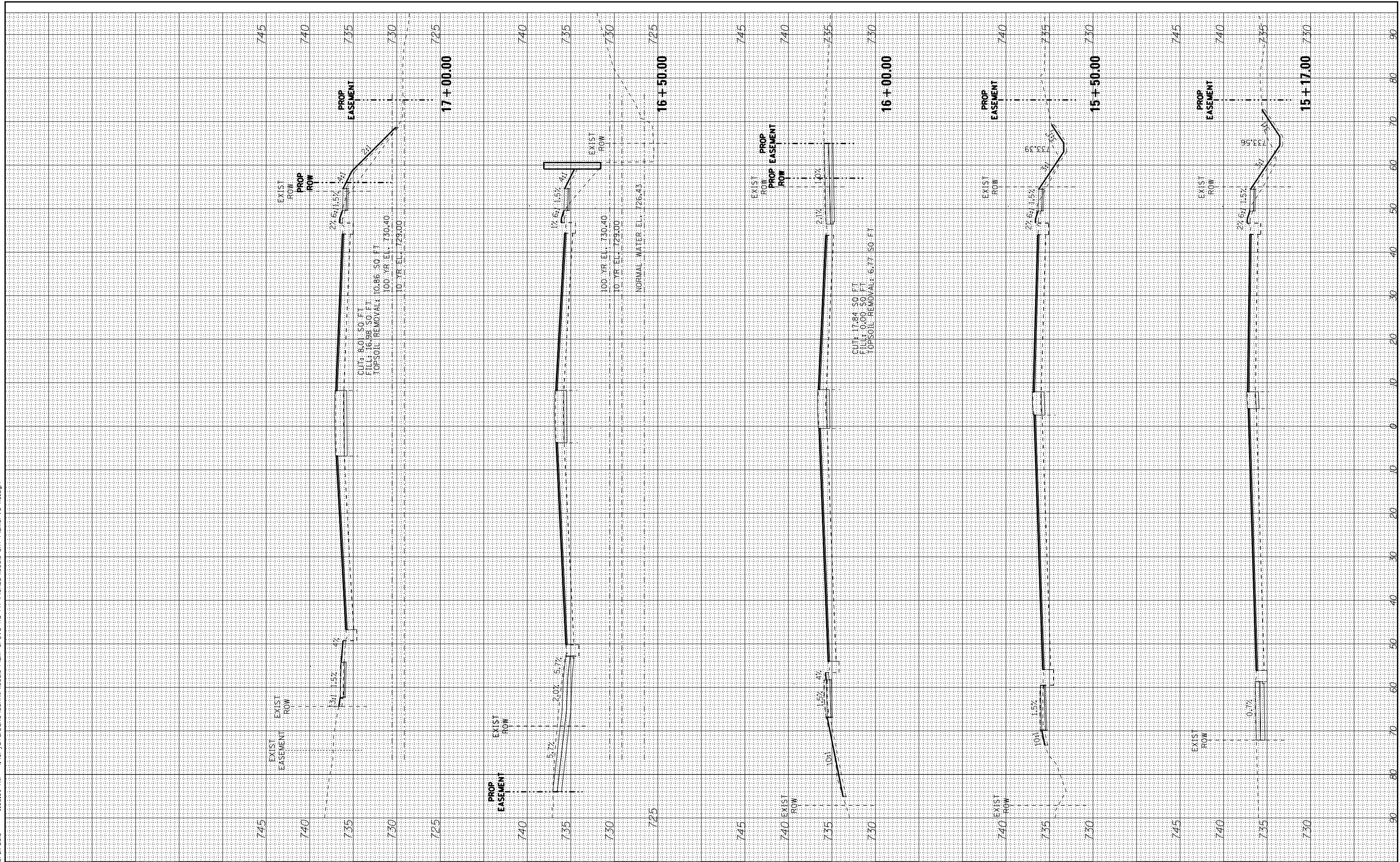
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 15+17.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	189
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT C-91-060-16	
CONTRACT NO. 61E29				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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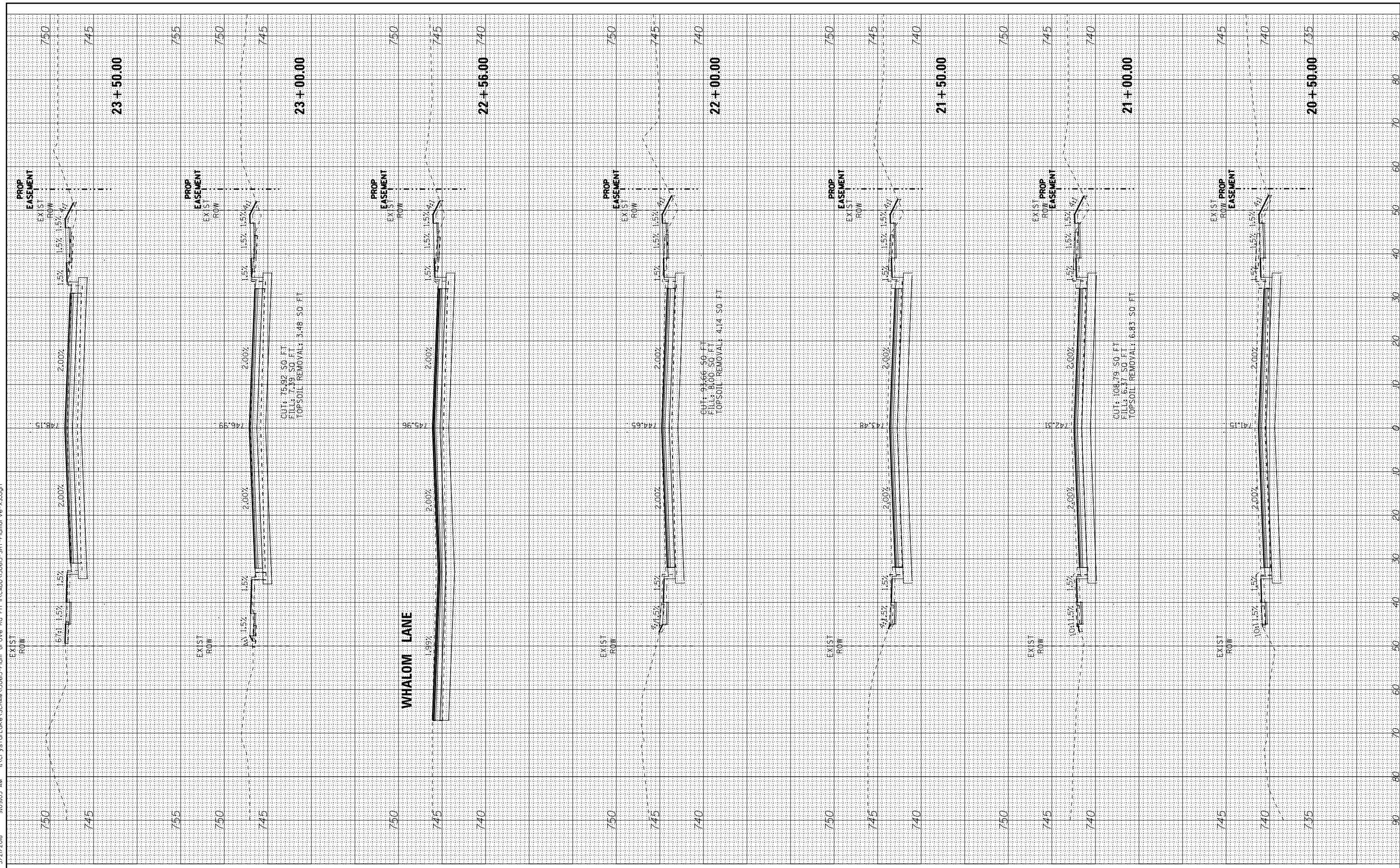
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DATE - 10-9-17	FILE - 150615-SHT-PlumGrve-XS.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 PLUM GROVE ROAD**

SCALE: H: 1"=10' V: 1"=5'
 STA. 20+50.00 TO STA. 23+50.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 191
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				



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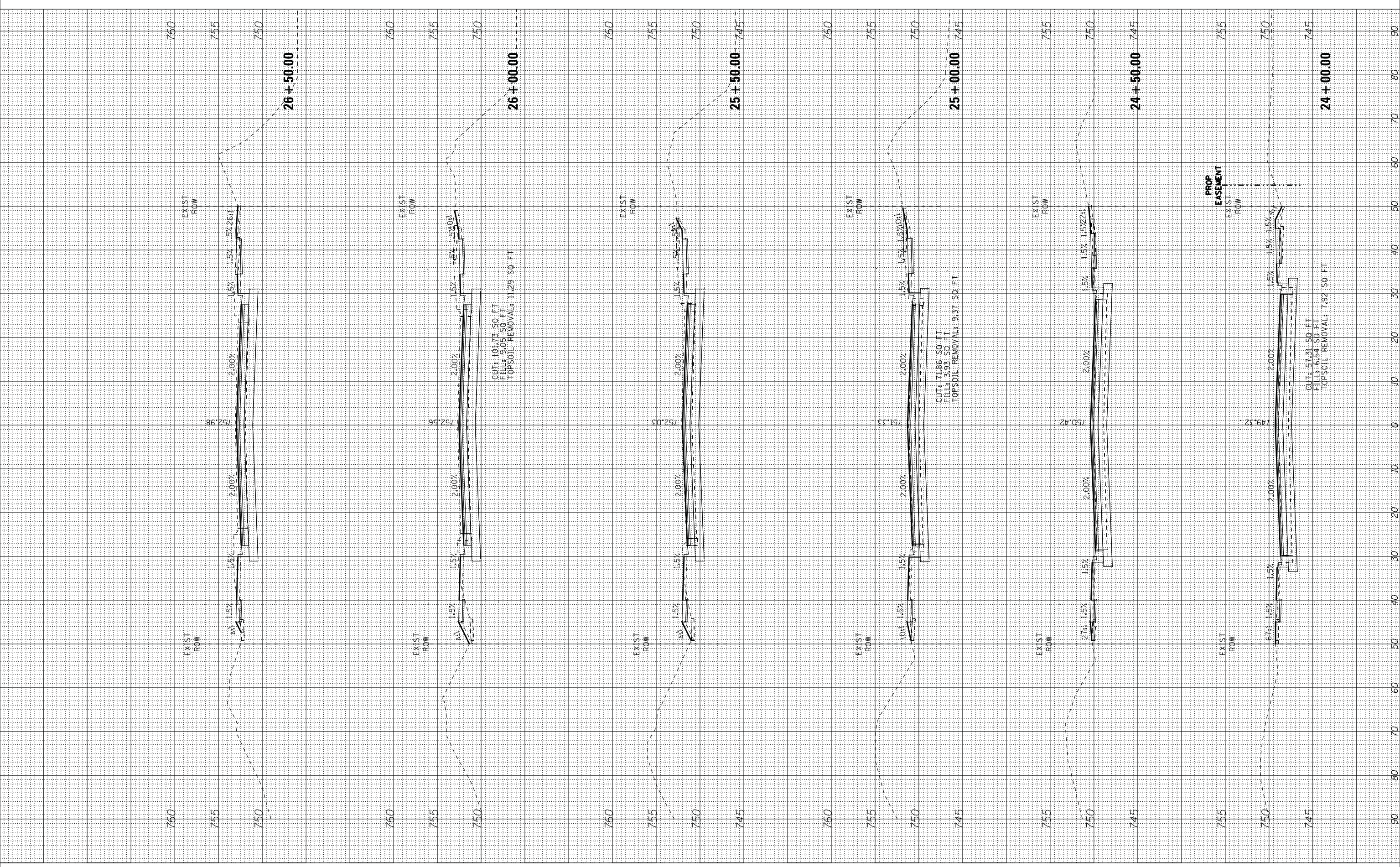
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 24+00.00 TO STA. 26+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	192
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DATE - 10-9-17	FILE - 150615-SHT-PlumGrove-XS.dgn

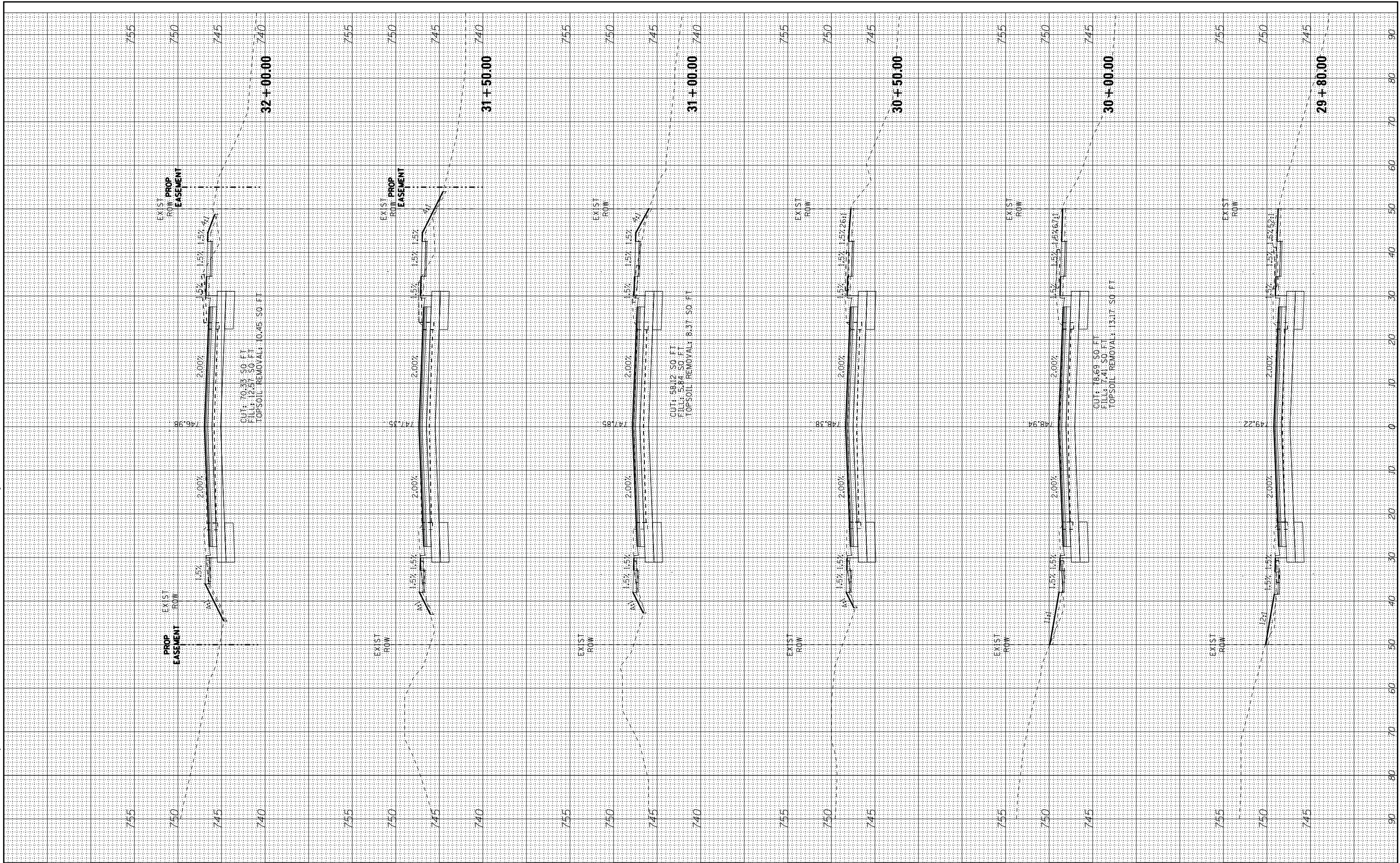
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

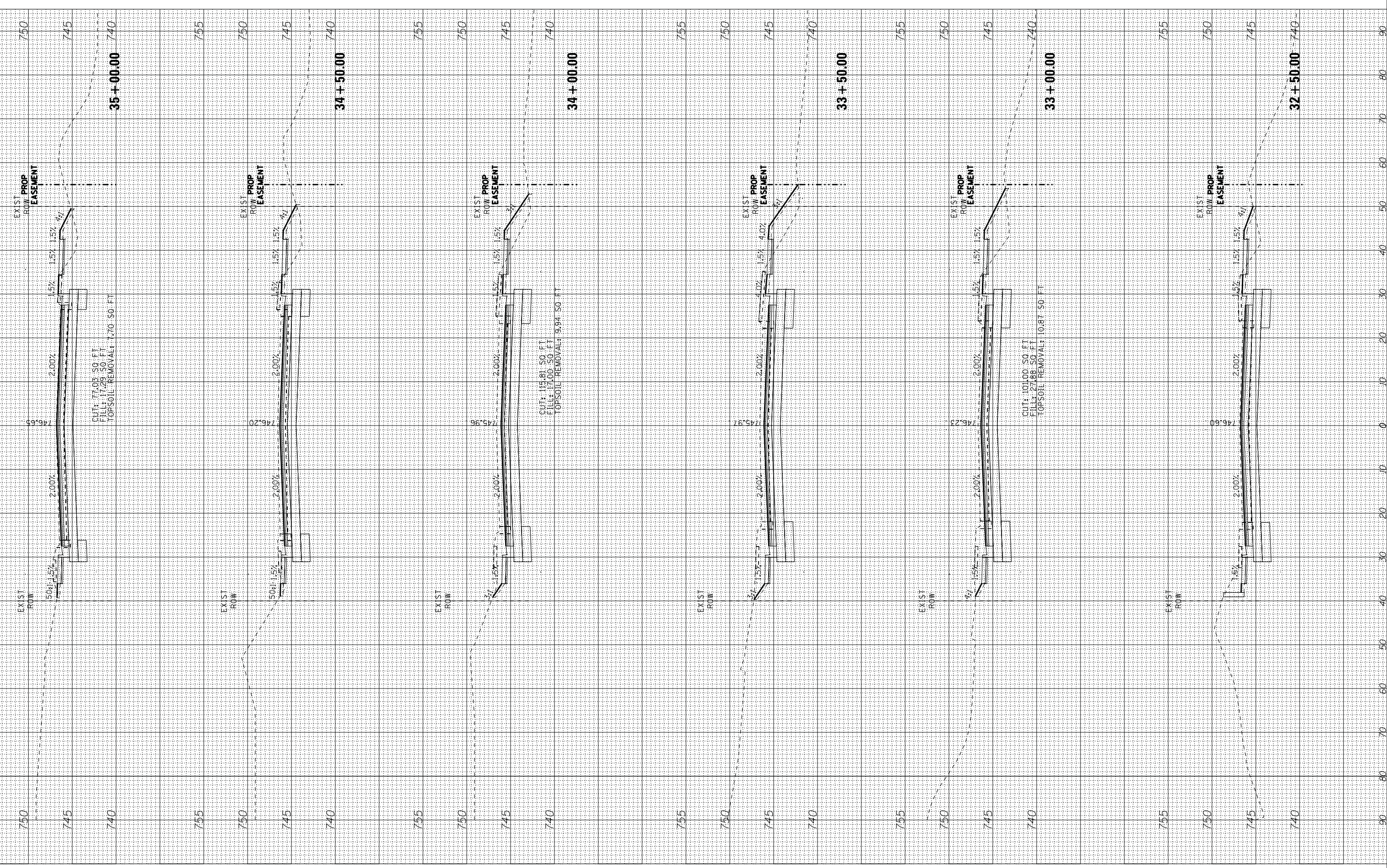
SCALE: H: 1"=10' V: 1"=5'

STA. 29+80.00 TO STA. 32+00.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 194
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				



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DRAWN - UKB	REVISED -
CHECKED - DJS	REVISED -
DATE - 10-9-17	FILE - 150615-SHT-PlumGrVe-XS.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 PLUM GROVE ROAD**

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

STA. 32+50.00 TO STA. 35+00.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 195
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				

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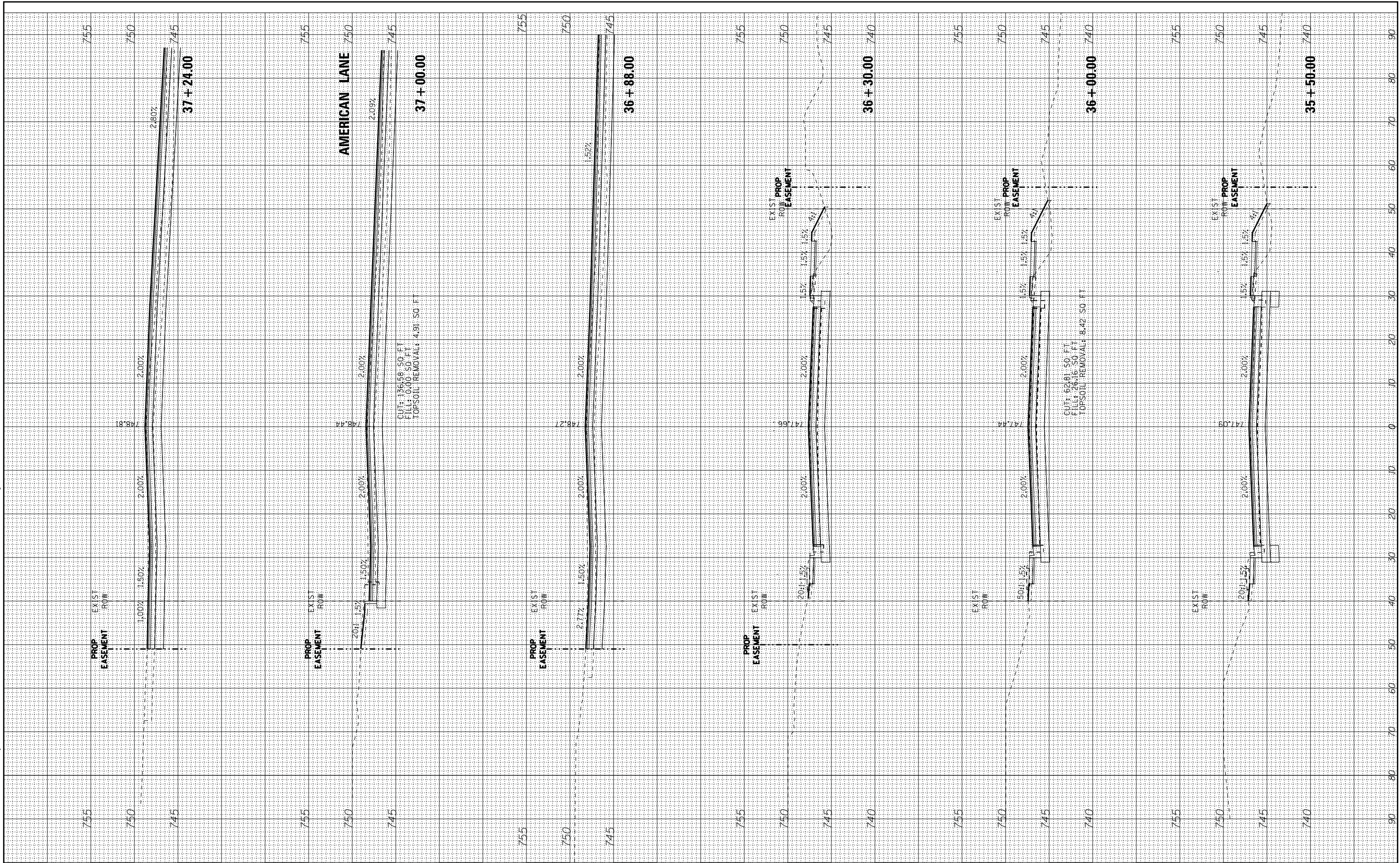
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 35+50.00 TO STA. 37+24.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 196
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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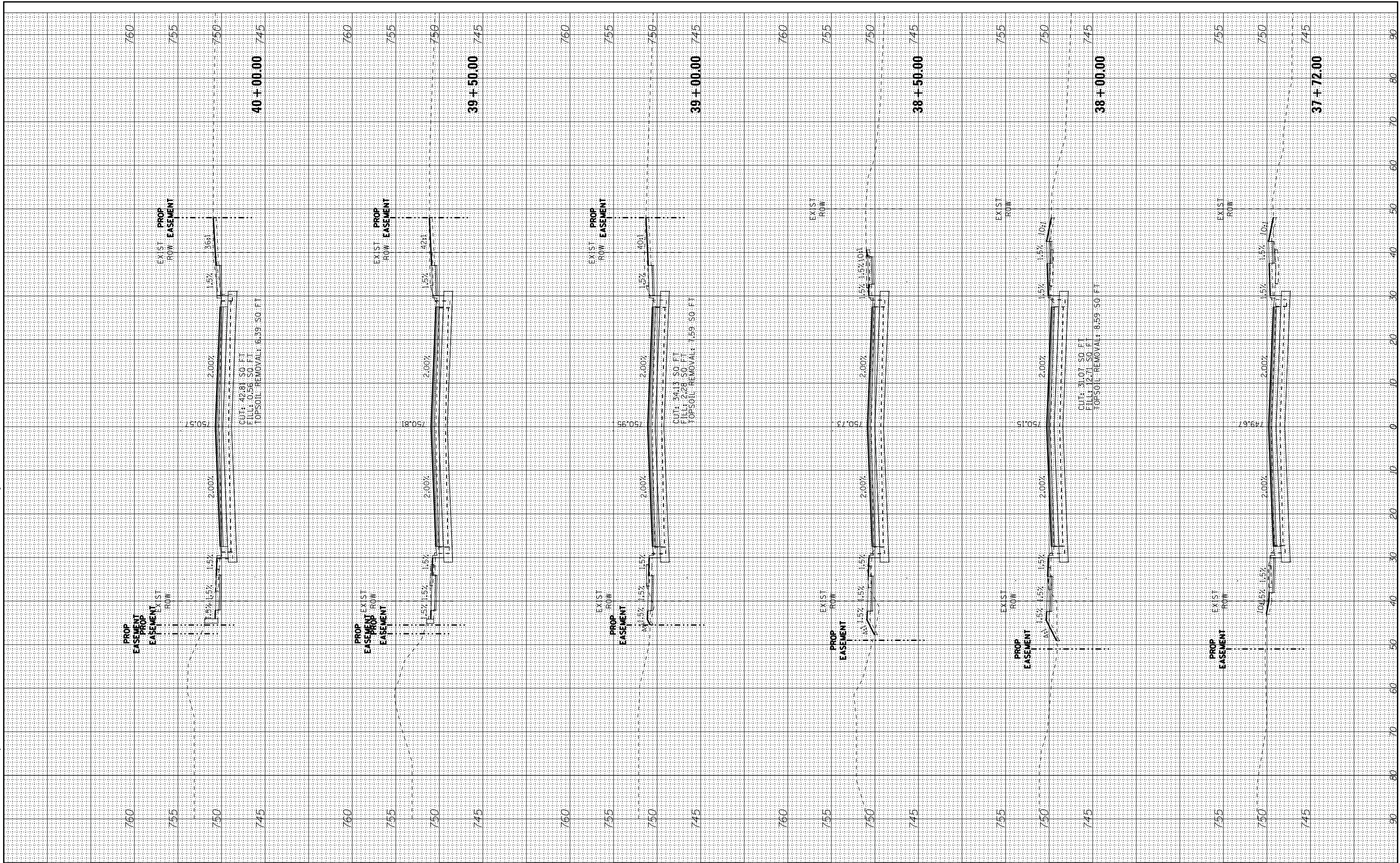
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 37+72.00 TO STA. 40+00.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 197
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				



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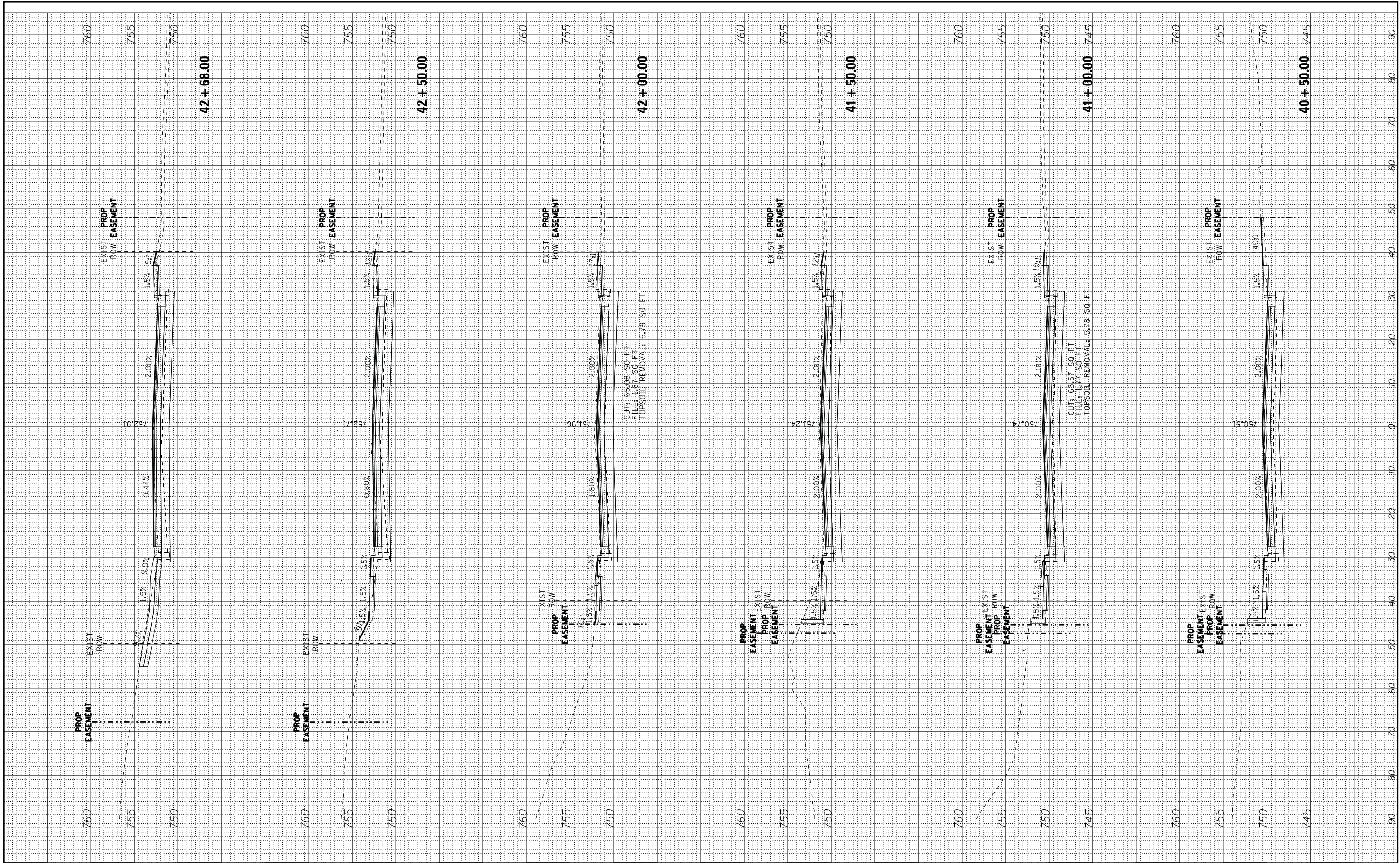
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 40+50.00 TO STA. 42+68.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2582	14-00115-00-PV	COOK	199	198
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT C-91-060-16			CONTRACT NO. 61E29	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DATE - 10-9-17	FILE - 150615-SHT-PlumGrve-XS.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 PLUM GROVE ROAD

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

STA. 43+00.00 TO STA. 44+00.00

F.A.U. RE. 2582	SECTION 14-00115-00-PV	COUNTY COOK	TOTAL SHEETS 199	SHEET NO. 199
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT C-91-060-16		
CONTRACT NO. 61E29				

