

| | | | | |
|---------------------|-------------|--------------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | 74 # | 1 |
| FED. ROAD DIST. NO. | ILLINOIS | CONTRACT NO. 60K06 | | |
| D-91-344-10 | | * 74 + 3 = 77 | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

DISTRICT 1

FIBER OPTIC CABLE INSTALLATION FOR HIGHWAY SURVEILLANCE

FAI-55

FROM I-80 TO
NAPERVILLE ROAD
(VETERANS PARKWAY)

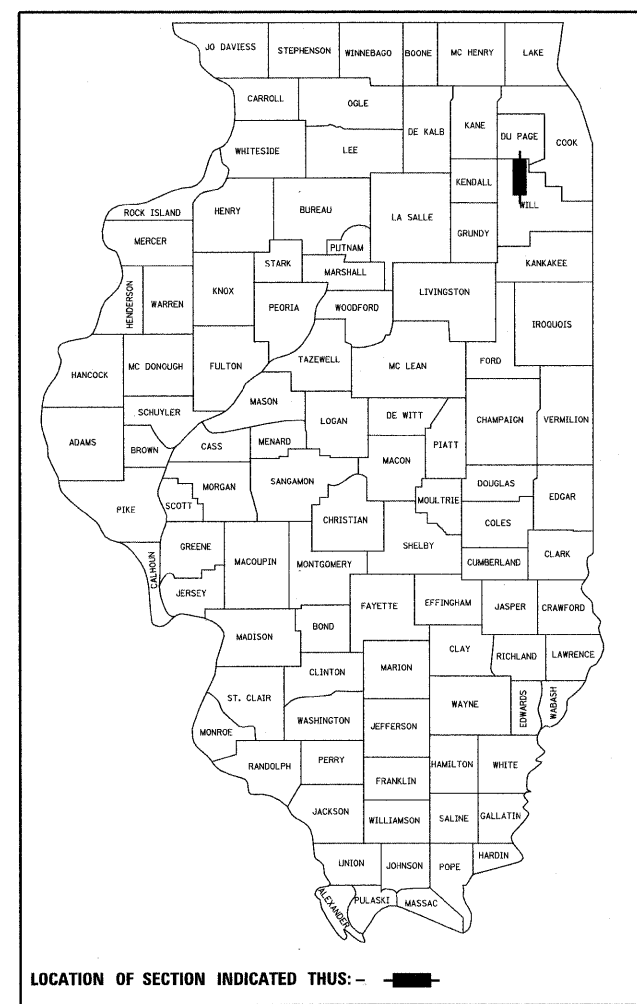
FAI ROUTE 55

SECTION 2009-139 SG

PROJECT NO. CMI-055-6(243)252

WILL COUNTY

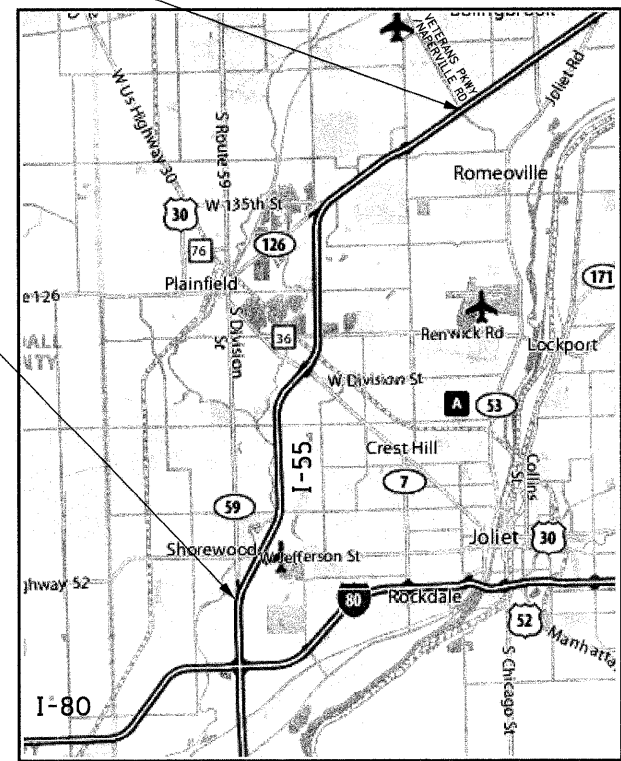
C-91-344-10



FOR INDEX OF SHEETS, SEE SHEET NO. 2

END PROJECT

BEGIN PROJECT



PREPARED BY: Steven Tarrin 3/19/2010
TRAFFIC ENGINEER DATE

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 19 2010
Diane M. Okeefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Stitt P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 60K06

| SUMMARY OF QUANTITIES | | | | CONSTRUCTION TYPE CODE | | |
|-----------------------|---|----------|---|------------------------|-------------------|-----------------|
| CODE NO | ITEM | UNIT | URBAN 80% FED. 20% STATE TOTAL QUANTITIES | WILL Y032-1F | DUPAGE Y032-1F | COOK Y032-1F |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 2 | 2 | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 70100800 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 | L SUM | 1 | 1 | | |
| 70100420 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701411 | EACH | 5 | 5 | | |
| 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | 1 | | |
| 80400200 | ELECTRIC UTILITY SERVICE CONNECTION | L SUM | 1 | 1 | | |
| 81000600 | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL | FOOT | 3790 | 3790 | | |
| 81016600 | CONDUIT IN TRENCH, HIGH DENSITY POLYETHYLENE, COILABLE (2" DIA.) | FOOT | 5510 | 5510 | | |
| 81018500 | CONDUIT PUSHED, 2" DIAMETER, GALVANIZED STEEL | FOOT | 15,795 | 15,795 | | |
| 81018900 | CONDUIT PUSHED, 4" DIAMETER, GALVANIZED STEEL | FOOT | 2,020 | 2,020 | | |
| 81101005 | CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL | FOOT | 1,455 | 1,455 | | |
| 81300960 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12" | EACH | 32 | 32 | | |
| 81400200 | HEAVY-DUTY HANDHOLE | EACH | 94 | 94 | | |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 92,985 | 92,985 | | |
| 87000130 | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 4 AND NO. 10 GROUND | FOOT | 4760 | 4760 | | |
| 87000140 | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 2 AND NO. 8 GROUND | FOOT | 3815 | 3815 | | |
| 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR | FOOT | 3760 | 3760 | | |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 130 | 130 | | |
| X0323907 | COMMUNICATIONS VAULT | EACH | 74 | 74 | | |
| X0323914 | FIBER OPTIC CABLE SPLICE - LATERAL | EACH | 43 | 43 | | |
| X0323917 | CABINET, MODEL 334 | EACH | 29 | 29 | | |
| X0323957 | FIBER OPTIC CABLE SPLICE - MAINLINE | EACH | 18 | 18 | | |
| X0324234 | 2070 LITE CONTROLLER | EACH | 29 | 29 | | |
| X0324245 | CONCRETE FOUNDATION, SURVEILLANCE CABINET, MODEL 334 | EACH | 29 | 29 | | |
| X0324248 | DETECTOR RACK | EACH | 29 | 29 | | |
| X0325040 | FIBER OPTIC INNERDUCT 1 1/4" DIA. | FOOT | 172350 | 172350 | | |
| X0325702 | NIGHTTIME WORK ZONE LIGHTING | L SUM | 1 | 1 | | |
| X0326122 | ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 2/C NO. 6 AND NO. 8 GROUND | FOOT | 1,990 | 1,990 | | |
| X0326465 | MODIFICATION OF EXISTING VIDEO DISTRIBUTION SYSTEM | L SUM | 1 | 1 | | |
| X7011015 | TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) | L SUM | 1 | 1 | | |
| X8040310 | ELECTRIC SERVICE DISCONNECT | EACH | 30 | 30 | | |
| X8710035 | FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE | FOOT | 189875 | 189875 | | |
| X8710052 | FIBER OPTIC TERMINATION PANEL, 12 FIBER | EACH | 43 | 43 | | |
| X8730312 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18, 4/C, TWISTED, SHIELDED | FOOT | 20380 | 20380 | | |
| X8850102 | INDUCTION LOOP | FOOT | 4935 | 4935 | | |
| X0326266 | ETHERNET SWITCH | EACH | 49 | 49 | | |
| Z0076600 | TRAINEES | — HOUR — | — 300 — | — 300 — | | |
| X0326944 | ATMS INTEGRATION | L SUM | 1 | 1 | | |
| X0326939 | ETHERNET SWITCH (12 PORT OR HIGHER) | EACH | 1 | 1 | | |
| X8710036 | FIBER OPTIC CABLE 12F SM | FOOT | 10,605 | 10,605 | | |
| X0326940 | SOLAR POWERED SPREAD SPECTRUM RADAR VEHICLE DETECTOR SYSTEM (ROADSIDE) | EACH | 3 | 3 | | |
| X0326941 | TYPE 3 CABINET (CLOSED CIRCUIT TELEVISION) | EACH | 14 | 14 | | |
| 87800200 | TYPE D FOUNDATION, CONCRETE IN CONDUIT, 600V | FOOT | 56 | | | |
| 87000138 | ELECTRIC CABLE ASSEMBLY (EPR-TYPE TC) 2/C NO. 1/0 AND NO. 8 GROUND | FOOT | 2215 | 2215 | | |
| X0326942 | MODIFY EXISTING CLOSED CIRCUIT TELEVISION INSTALLATION FOR FIBER-OPTIC COMMUNICATIONS, FIBER | EACH | 10 | 10 | | |
| X0326943 | MODIFY EXISTING CLOSED CIRCUIT TELEVISION INSTALLATION FOR FIBER-OPTIC COMMUNICATIONS, ETHERNET | EACH | 10 | 10 | | |

FILE NAME = F:\P-07-1600-11\Gen\SH003.dgn

USER NAME = wjngam
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/19/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

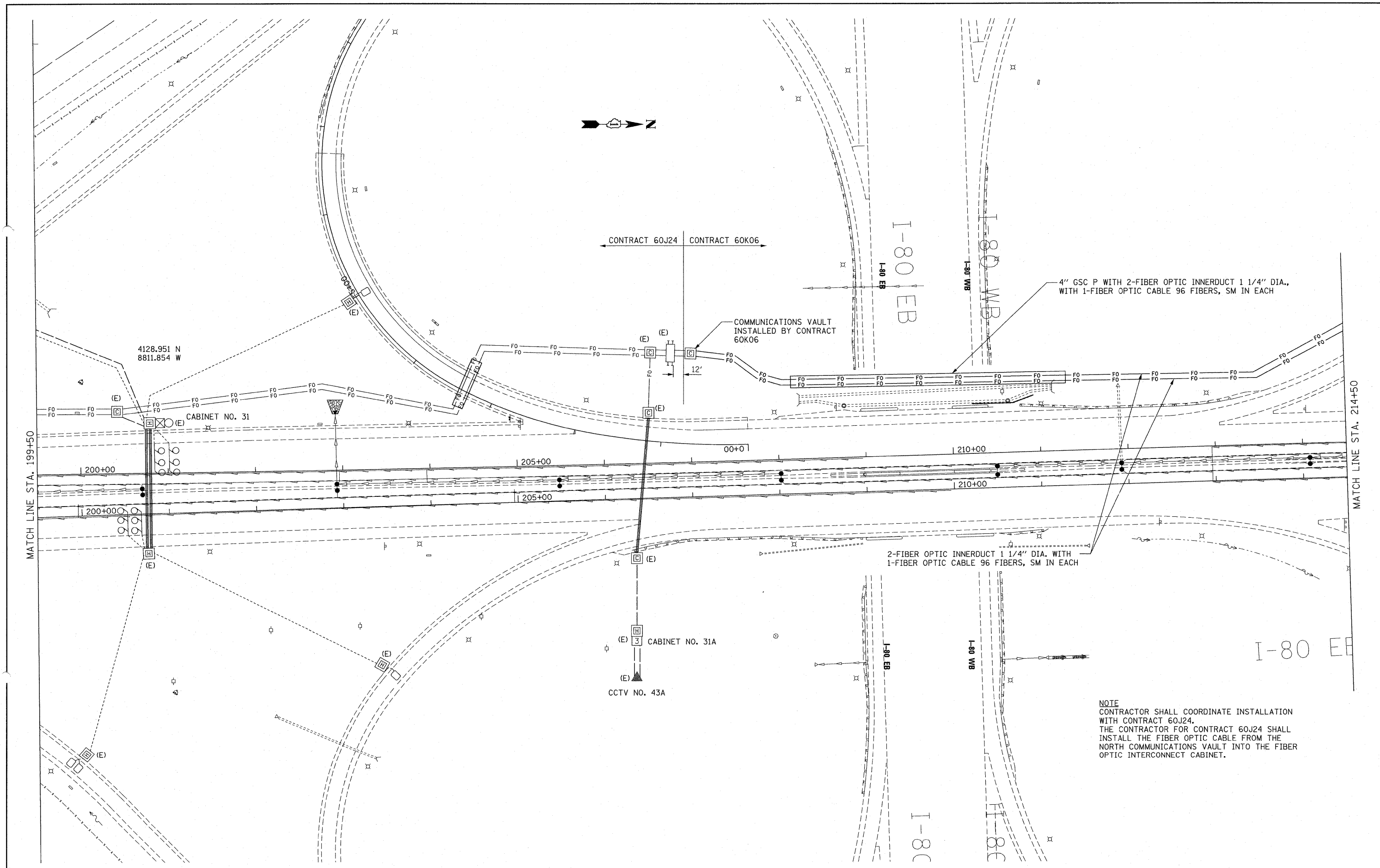
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 SUMMARY OF QUANTITIES

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

| | | | | |
|---|------------------------|----------------|-----------------------|-------------------|
| F.A.I. RTE. 55 | SECTION 2009-139 SG | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 3 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



NOTE
 CONTRACTOR SHALL COORDINATE INSTALLATION WITH CONTRACT 60J24.
 THE CONTRACTOR FOR CONTRACT 60J24 SHALL INSTALL THE FIBER OPTIC CABLE FROM THE NORTH COMMUNICATIONS VAULT INTO THE FIBER OPTIC INTERCONNECT CABINET.

FILE NAME =
 P:\P-07-1600-11\Design\Sh1\SH1004.dgn

USER NAME = rdahan
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/20/2010

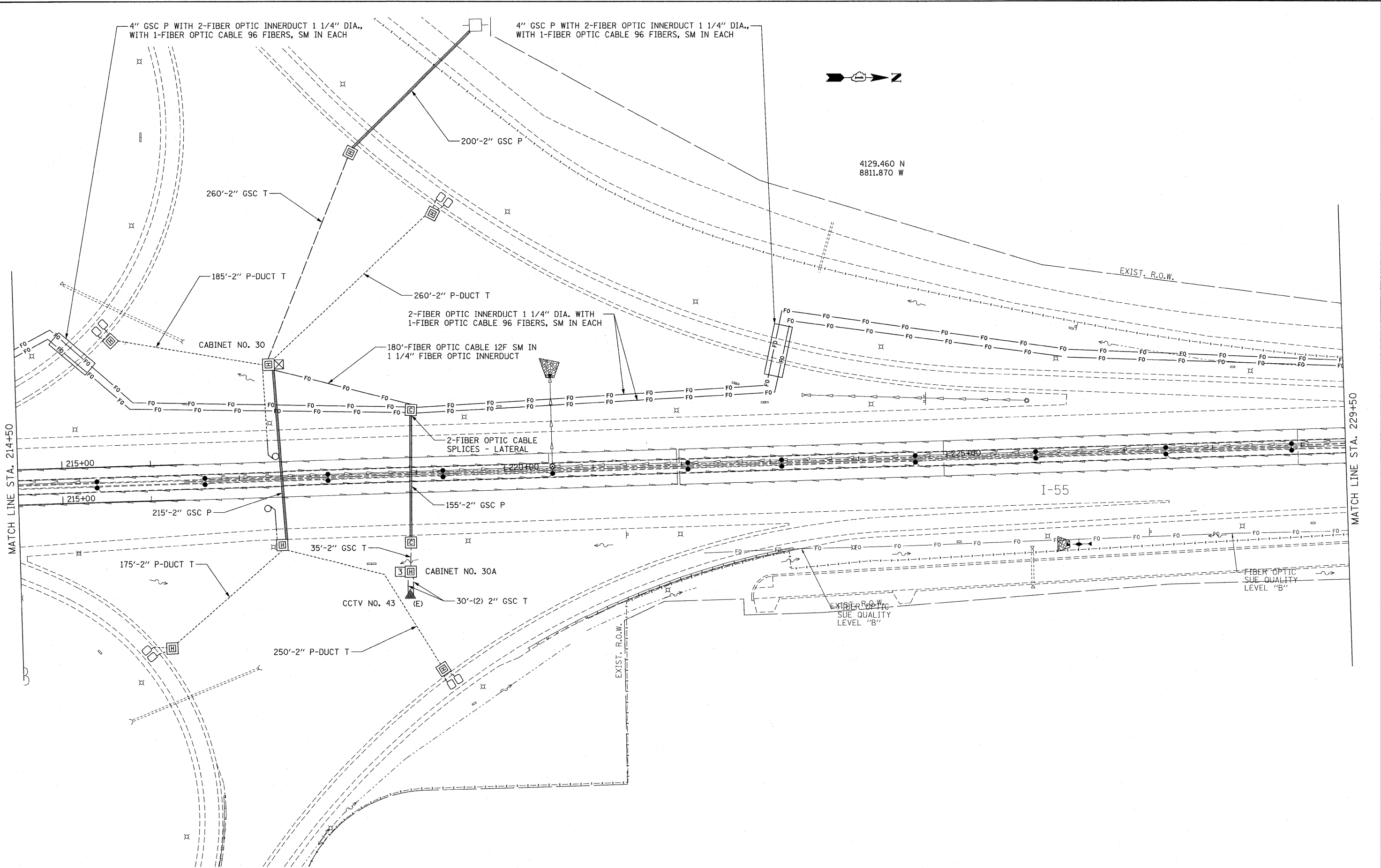
| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 I-80 SOUTH**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 4 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



FILE NAME =
 P:\P-07-1600-11\Design\Sh1\SH1005.dgn

USER NAME = wingram
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/20/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

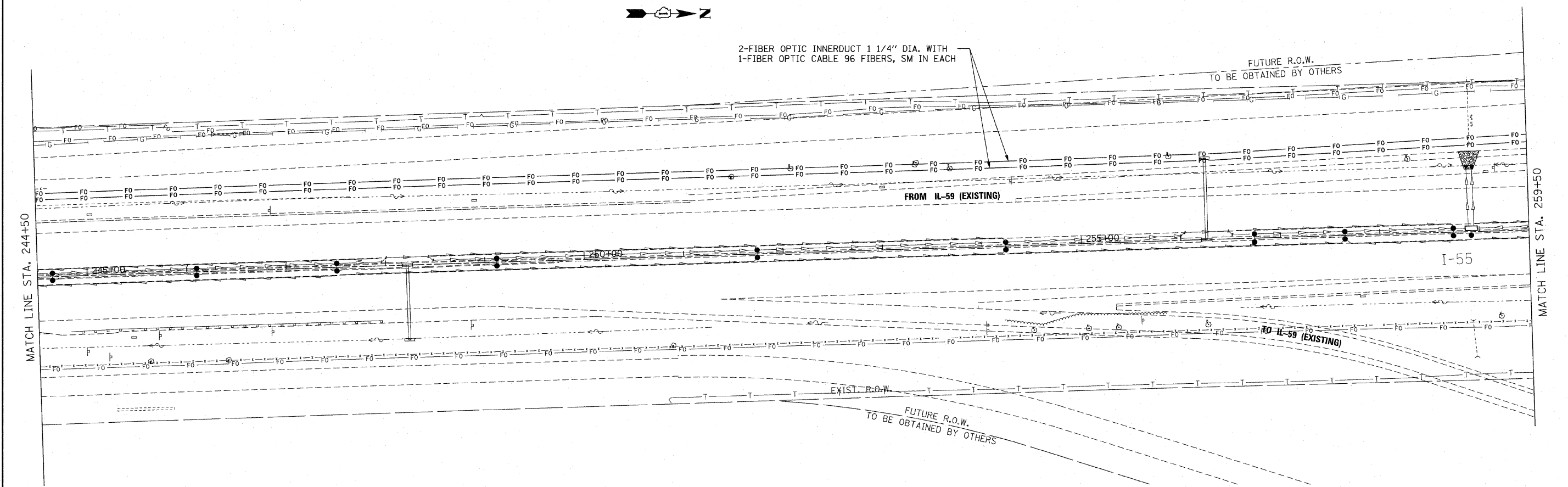
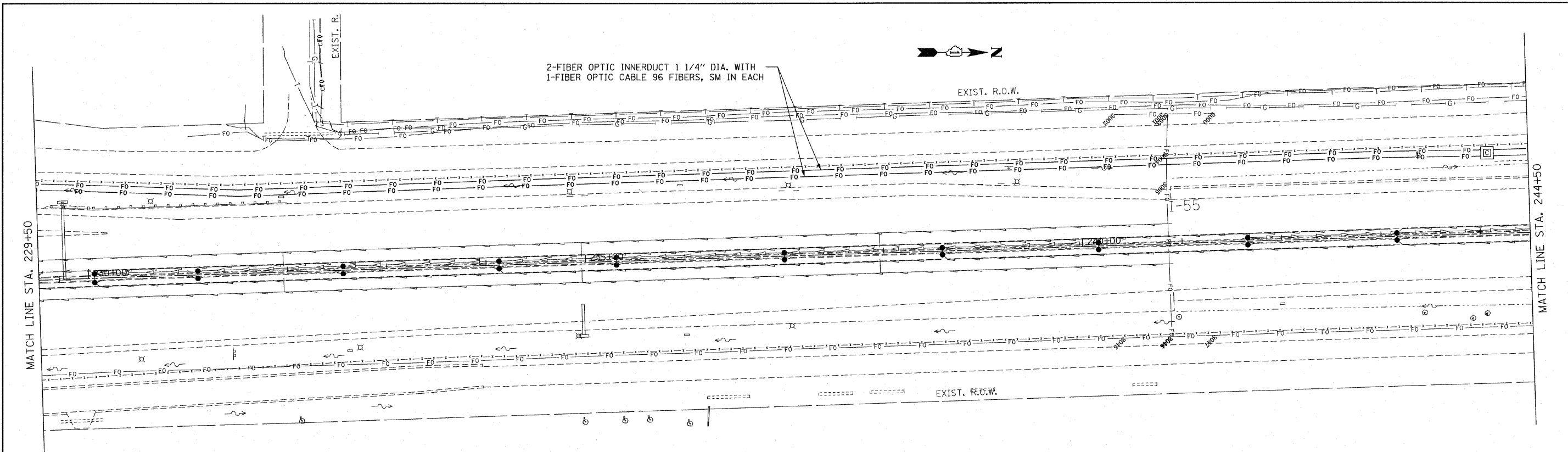
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 I-80 NORTH**

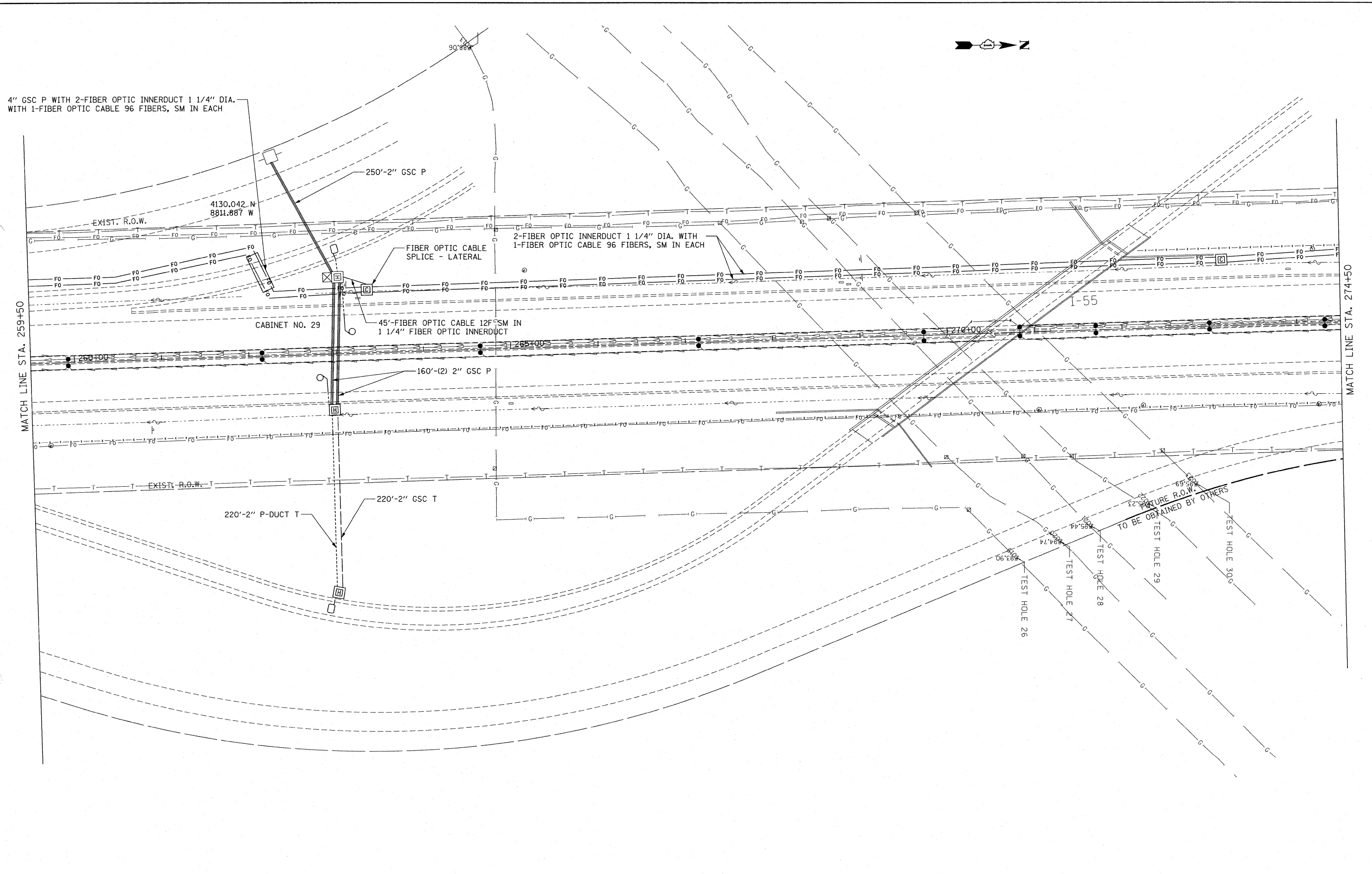
| | | | | |
|---------------------|-------------|--------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | 74 | 5 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NO. 60K06 | | | | |

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



| | | | | | | | | | | | | |
|--|-----------------------|------------|-----------|---|---|-----------|----|----------------|---------------------|-------------|---|-------------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1006.dgn | USER NAME = rdahhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) STA. 229 + 50 TO STA. 259 + 50 | | | F.A.I. RTE. 55 | SECTION 2009-139 5G | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 6 |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. | CONTRACT NO. 60K06 | |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | | | | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | |
| | | DATE - | REVISED - | | | | | | | | | |

4" GSC P WITH 2-FIBER OPTIC INNERDUCT 1 1/4" DIA.
WITH 1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH



FILE NAME =
P:\P-07-1600-11\Design\Sht\SH07.dgn

USER NAME = wingram
PLOT SCALE = #SCALE#
PLOT DATE = 4/20/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

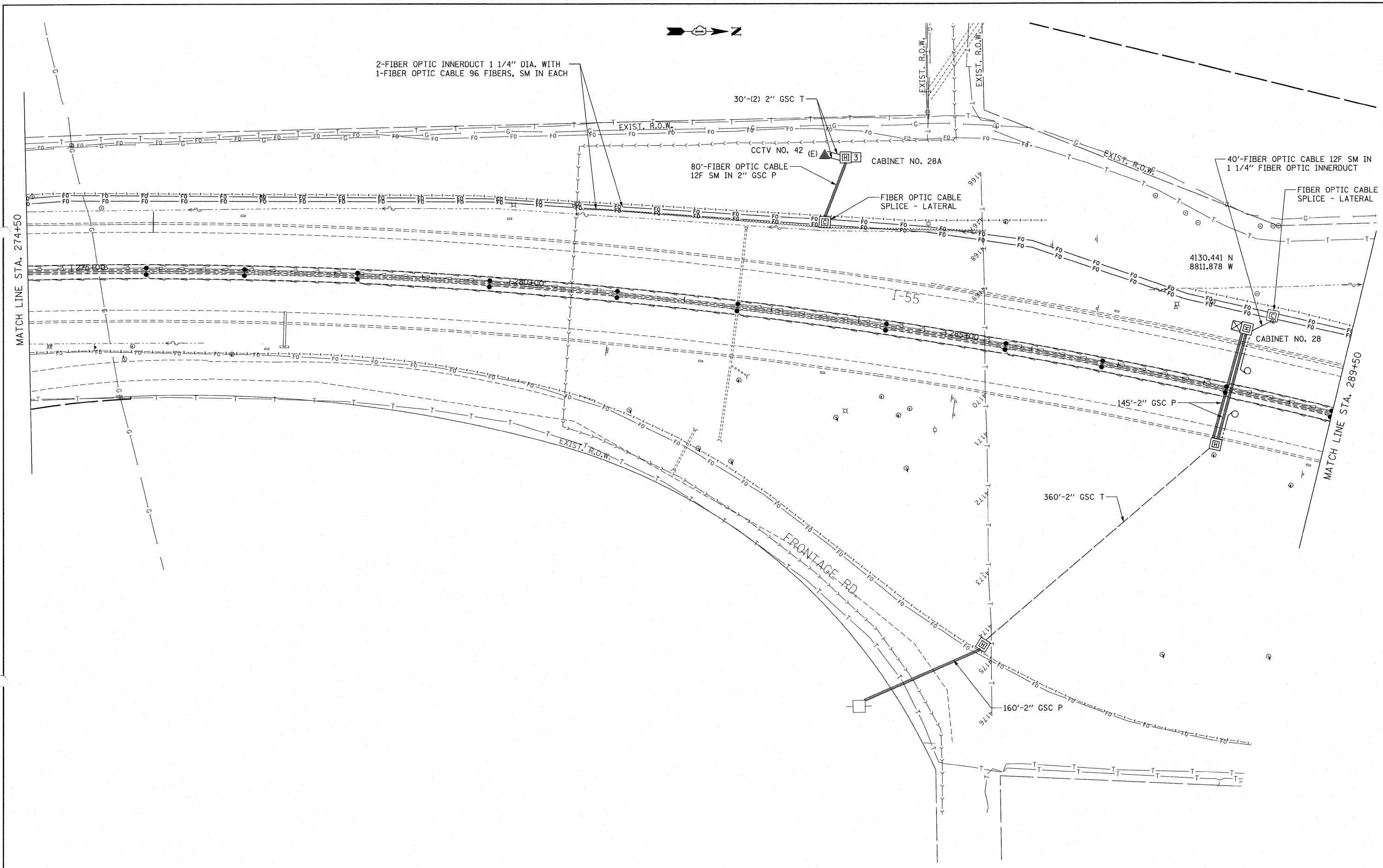
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
SOUTH OF IL 59**

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

| | | | | |
|---|-------------|--------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | 74 | 7 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



FILE NAME =
 P:\P-07-1600-11\Design\Sht\SHT008.dgn

USER NAME = wingram
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/9/2010

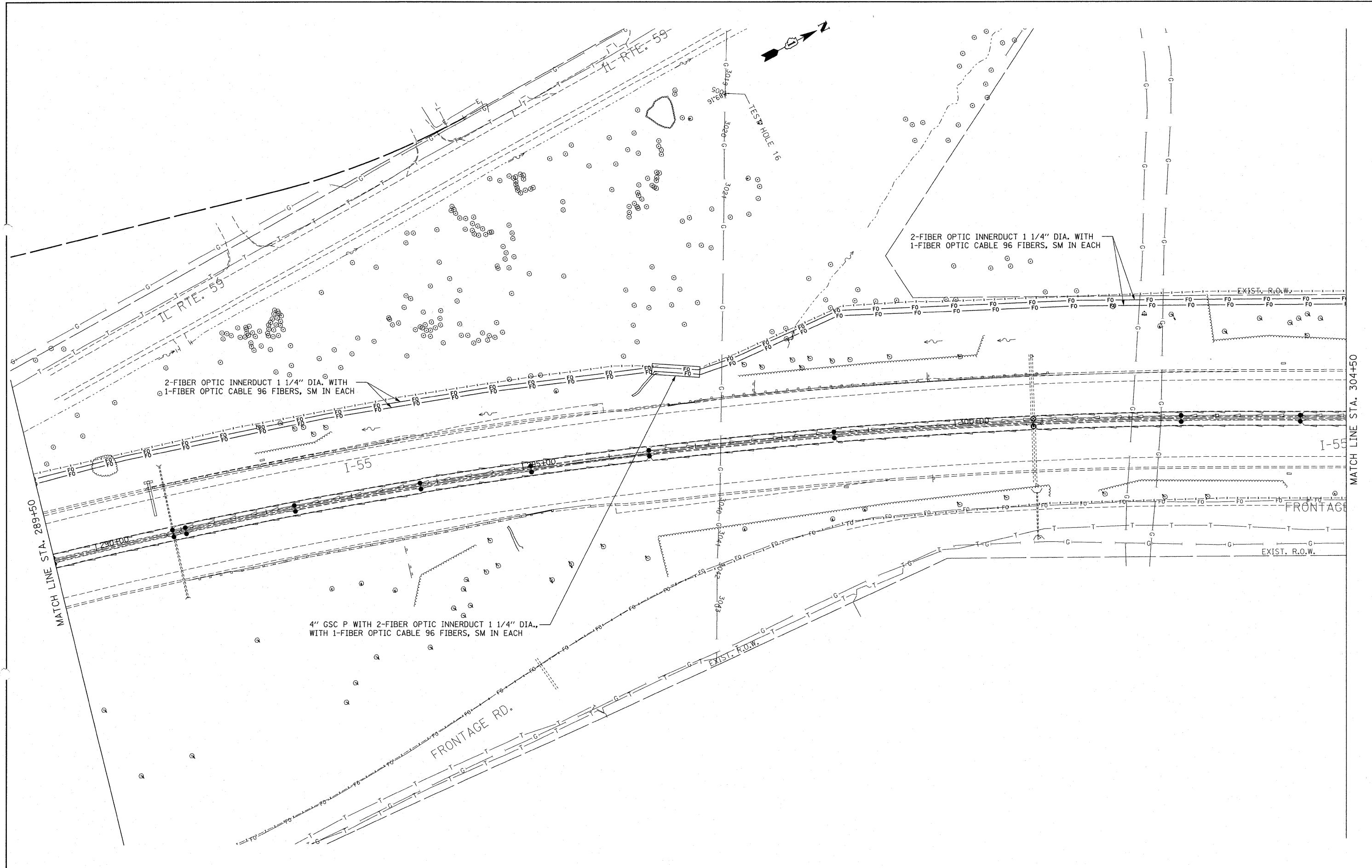
| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 1 MILE SOUTH US 52**

| | | | | |
|---------------------|-------------|--------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | 74 | 8 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 60K06 | |

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



FILE NAME =
 P:\NP-07-1620-11\Design\Shd\SHD009.dgn

USER NAME = wingram
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/20/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

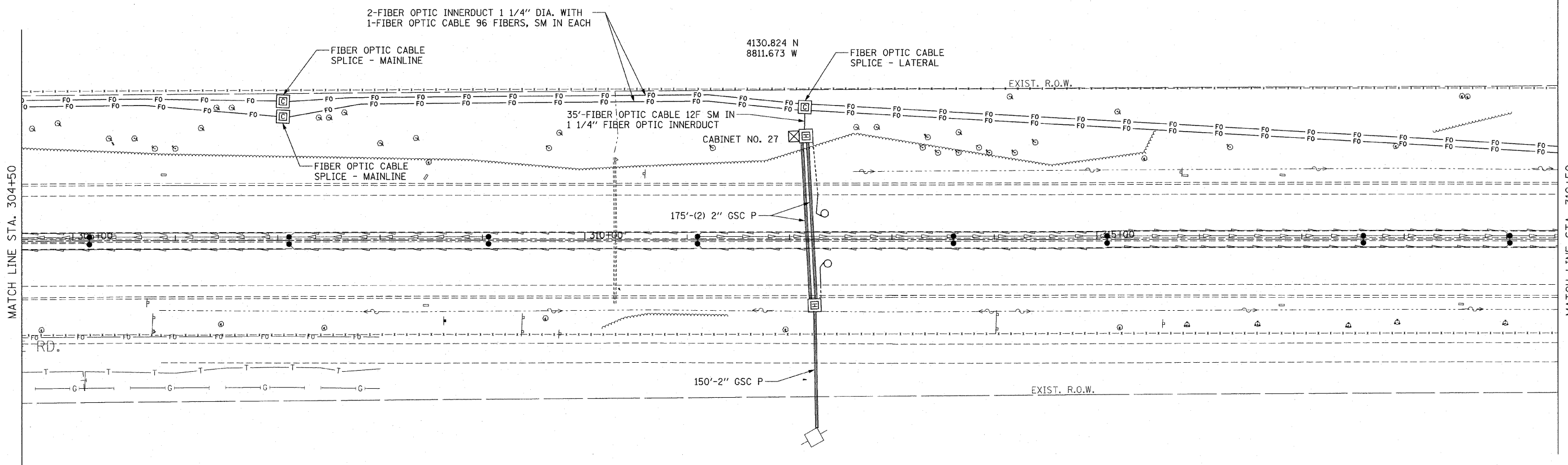
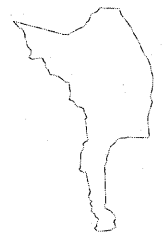
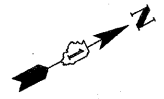
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 NORTH IL 59**

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|---------------------------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 9 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

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



MATCH LINE STA. 304+50

MATCH LINE STA. 319+50

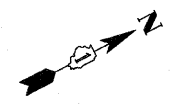
| | | | |
|---|-----------------------|------------|-----------|
| FILE NAME = P:\NP-07-1600-11\Design\Shit\SHIT010.dgn | USER NAME = rdehhan | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |
| | PLOT SCALE = #SCALE# | | |
| | PLOT DATE = 3/18/2010 | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

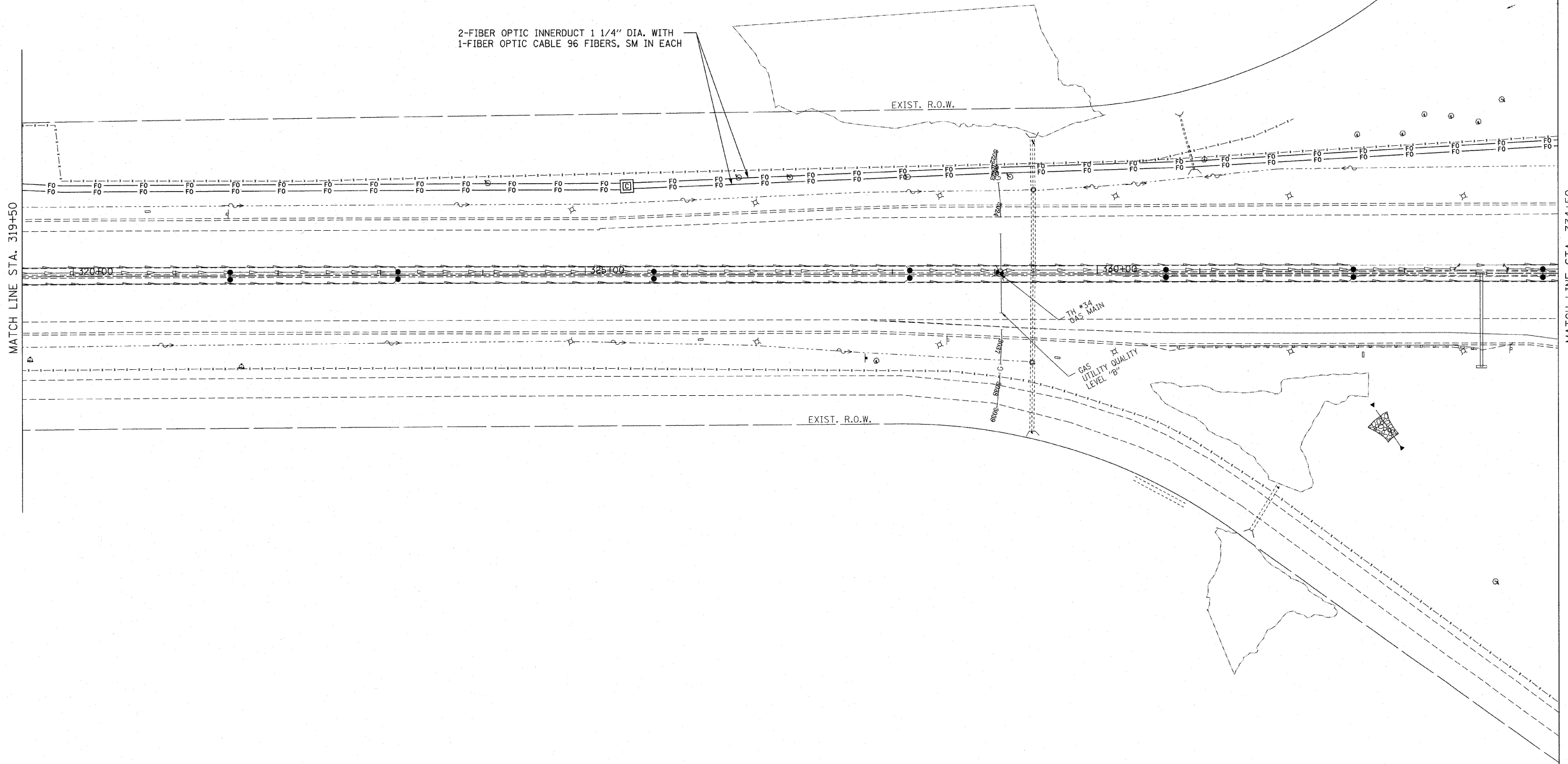
**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
1/2 MILE SOUTH OF US 52**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 5G | WILL | 74 | 10 |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH



MATCH LINE STA. 319+50

MATCH LINE STA. 334+50

FILE NAME =
P:\NP-07-1600-11\Design\Sh1\SH1011.dgn

USER NAME = rdahhan
PLOT SCALE = \$SCALE\$
PLOT DATE = 3/18/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

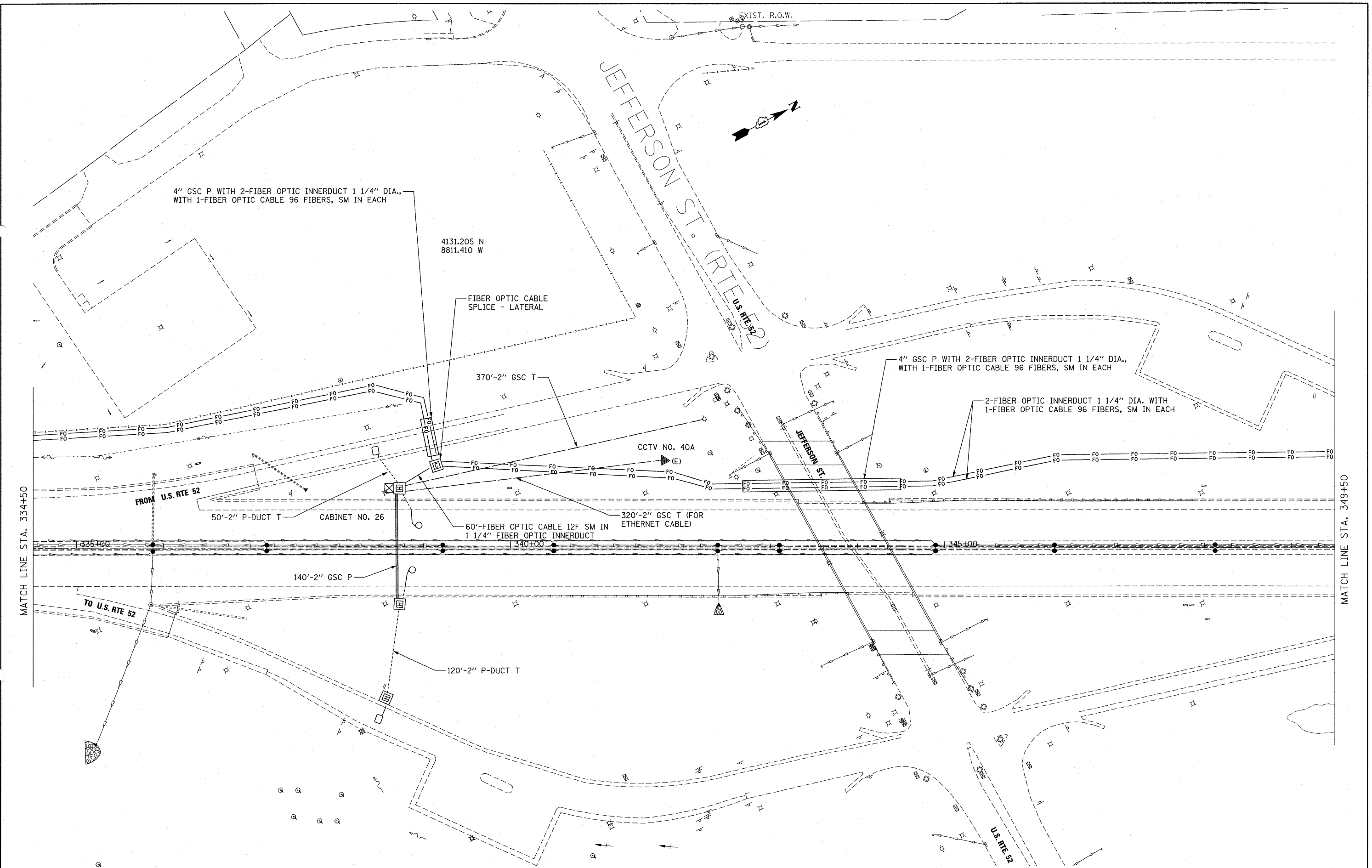
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
SOUTH OF US 52**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 11 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



FILE NAME =
 P:\P-07-1600-11\Design\Sht\SHT012.dgn

USER NAME = wjngam
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/20/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

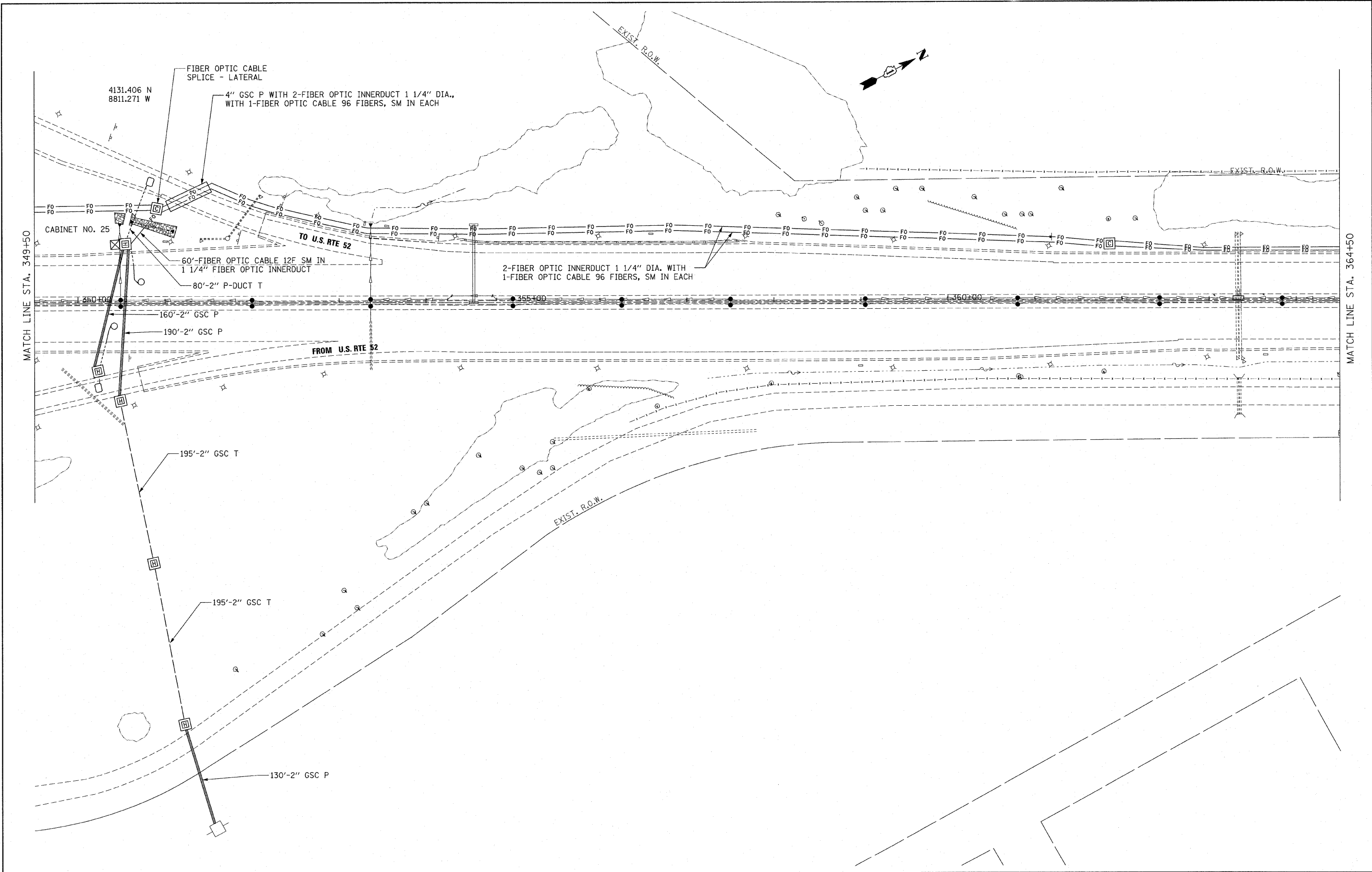
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 SOUTH US 52**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 12 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



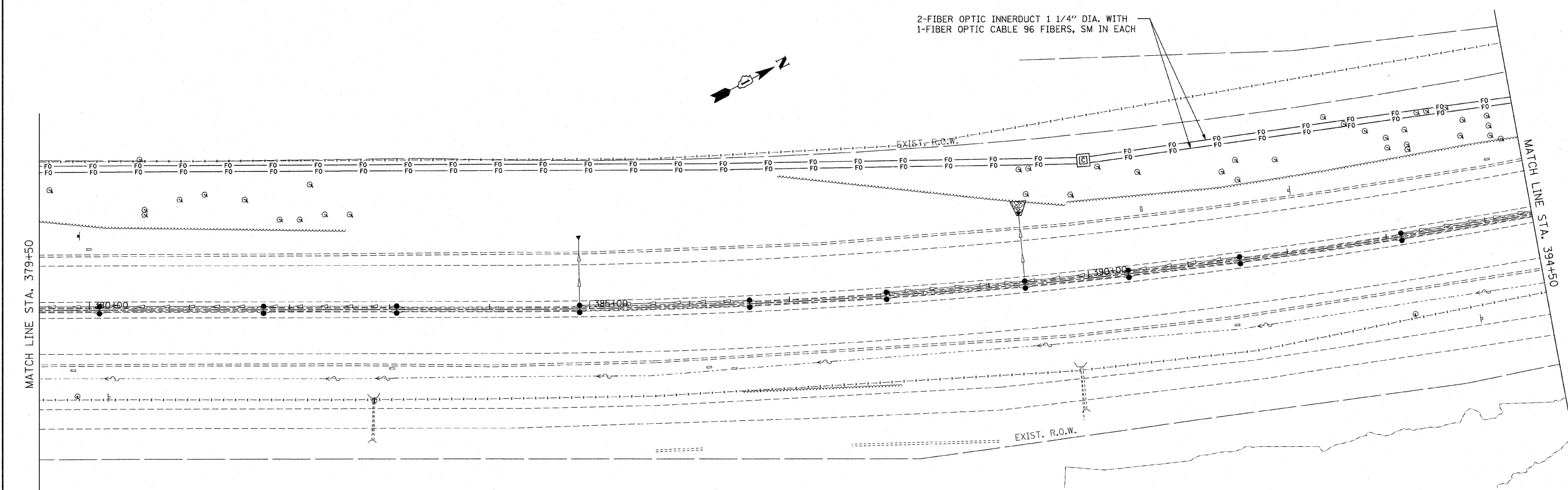
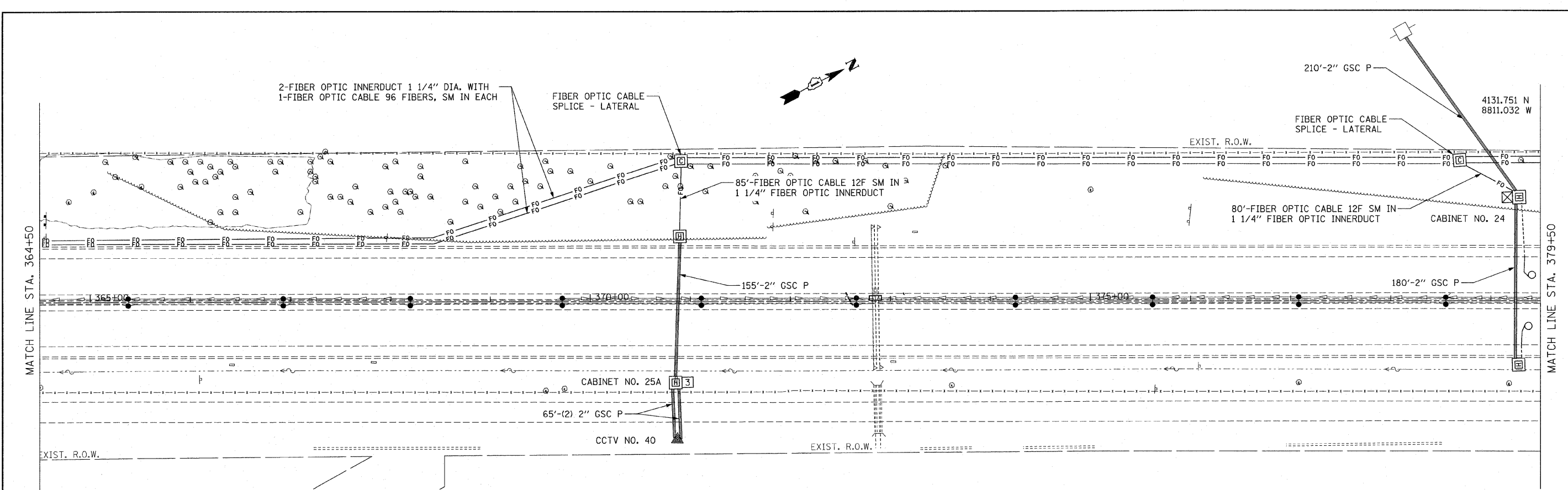
| | | | |
|---|------------------------|------------|-----------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1013.dgn | USER NAME = vdshhan | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |
| | | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
NORTH US 52**

| | | | | |
|---|-------------|--------|--------------------|--------------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | 74 | 13 |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | CONTRACT NO. 60K06 | |

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



FILE NAME = P:\P-07-1600-11\Design\Sh\SH014.dgn

USER NAME = rdahhan
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

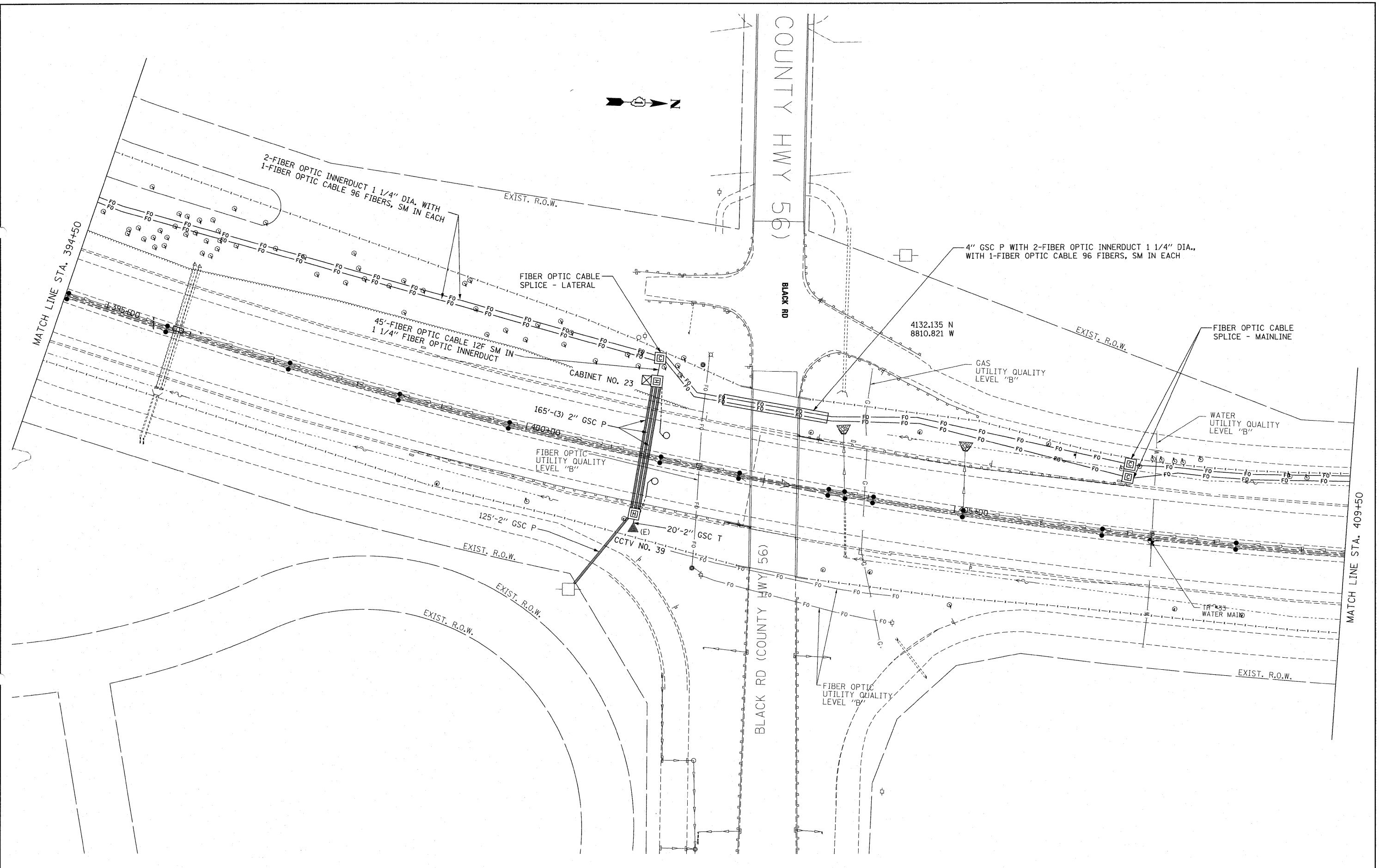
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 1/2 MILE NORTH OF US 52**

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|--------|---------------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 14 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |

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

CONTRACT NO. 60K06



FILE NAME =
 P:\NP-07-1620-11\Design\Shr\SHR015.dgn

USER NAME = wjngrom
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/20/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

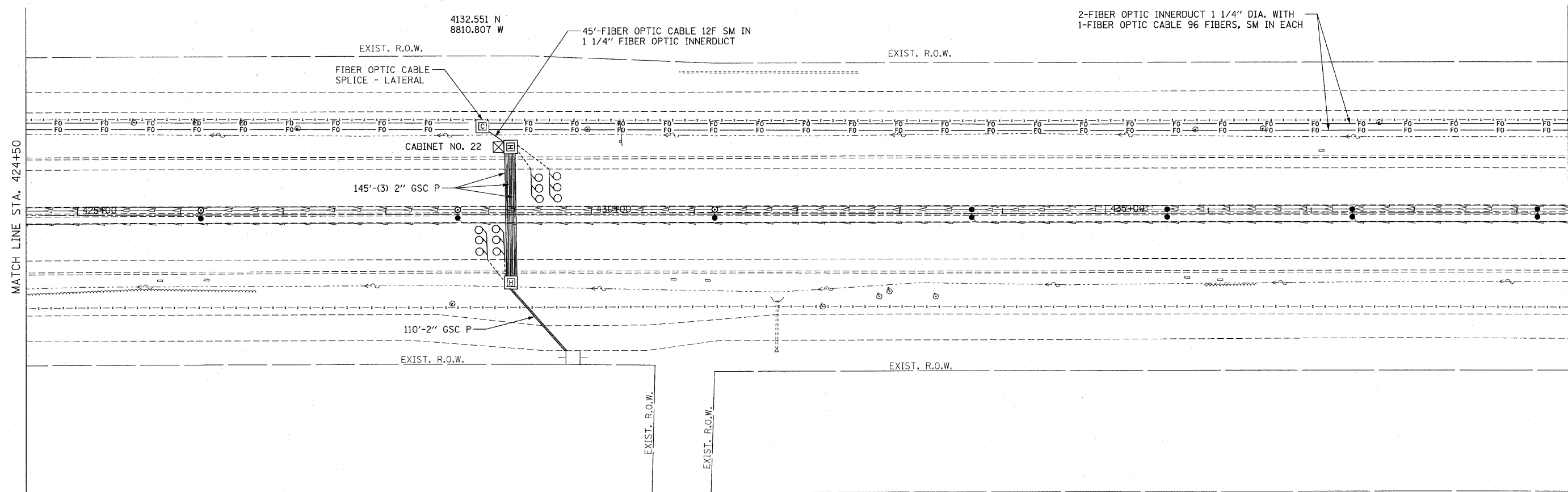
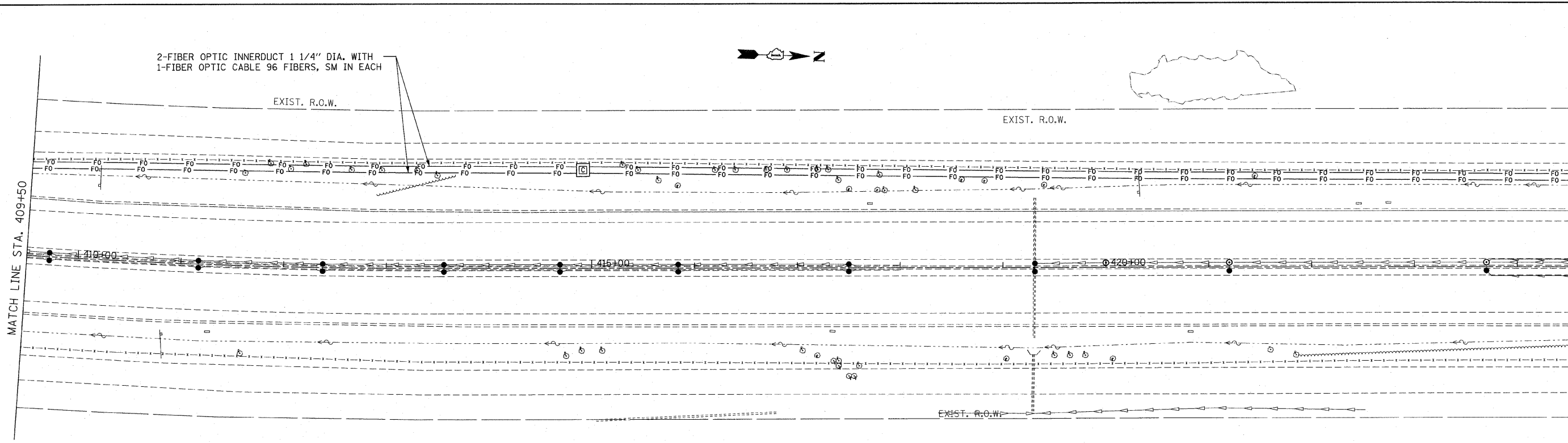
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 BLACK ROAD**

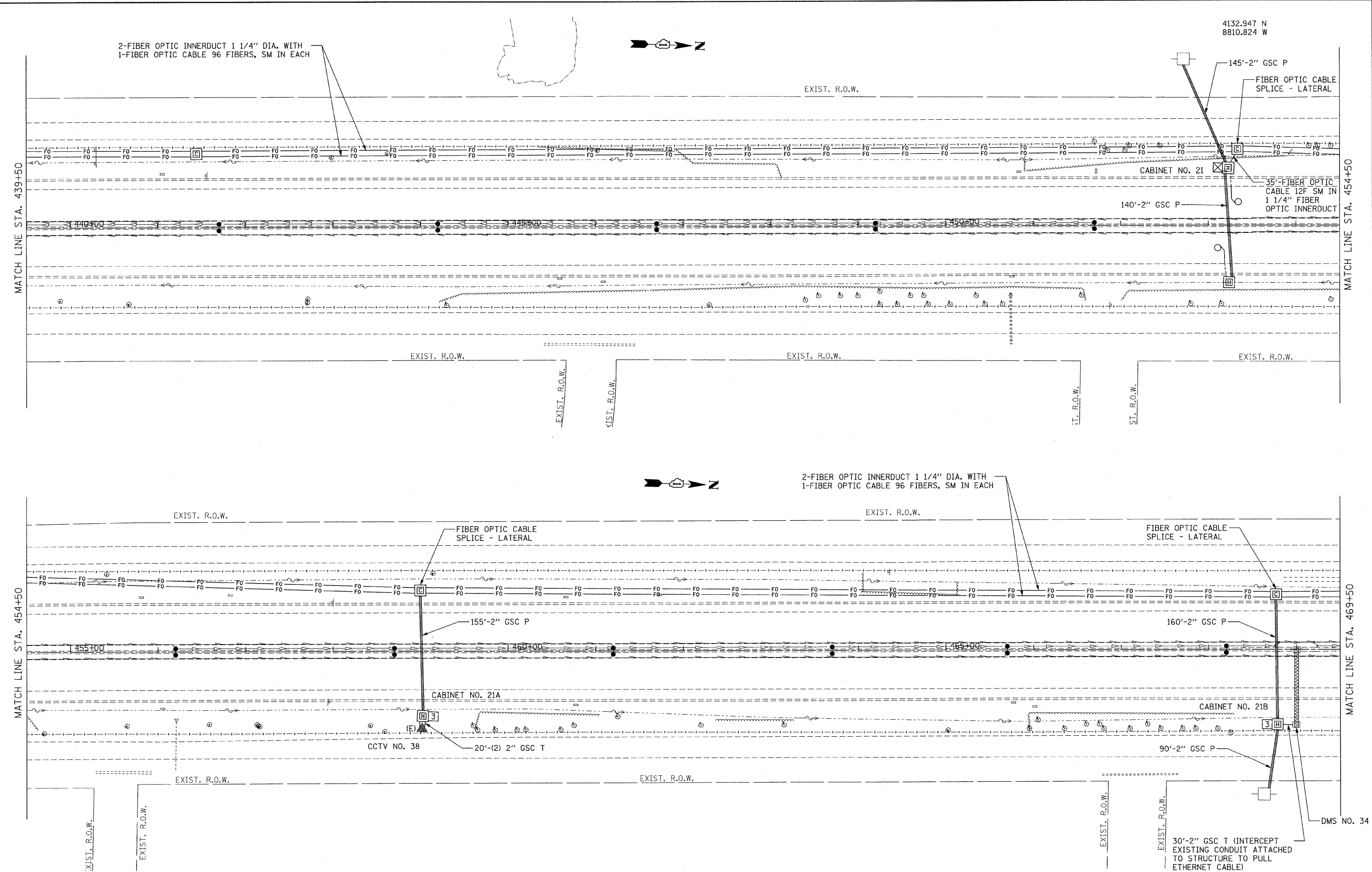
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 15 |
| CONTRACT NO. 60K06 | | | | |

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



| | | | | | | | | | | | | |
|--|-----------------------|------------|-----------|---|---|--------------|---|--------------------|-------------|--------|-----------------|--------------|
| FILE NAME = P:\NP-07-1600-11\Design\Shit\SH1016.dgn | USER NAME = rdahhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) 1/2 MILE NORTH OF BLACK ROAD | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | | | | 55 | 2009-139 5G | WILL | 74 | 16 |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | | | CONTRACT NO. 60K06 | | | | |
| | DATE - | REVISED - | | SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |



FILE NAME =
 P:\P-07-1620-11\Design\Sh\SH1817.dgn

USER NAME = ndathn
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2019

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

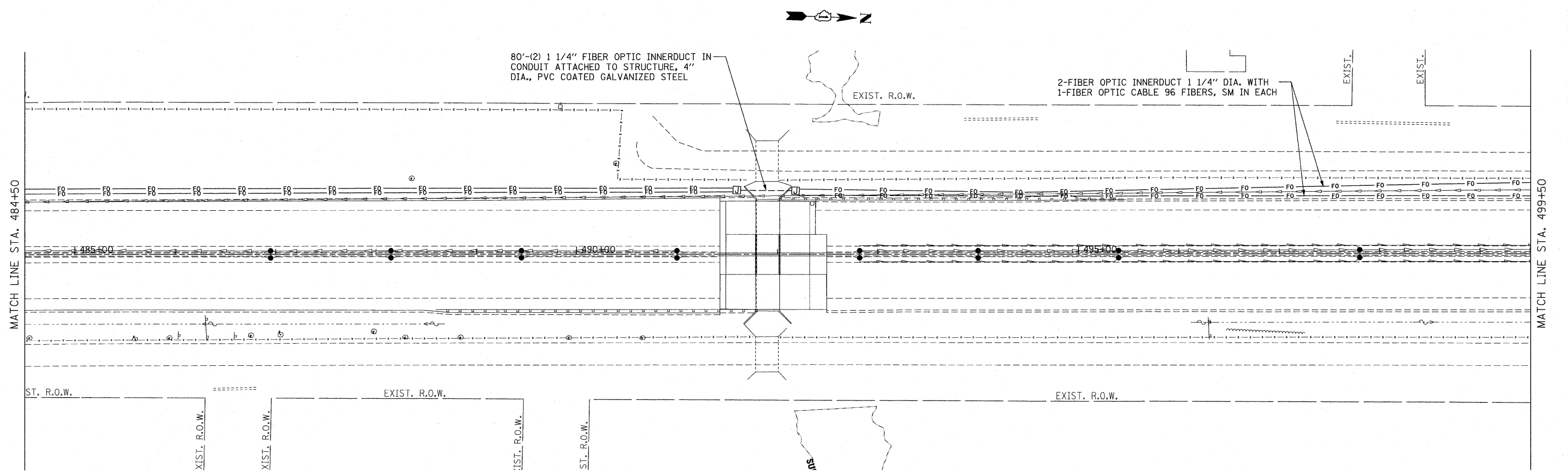
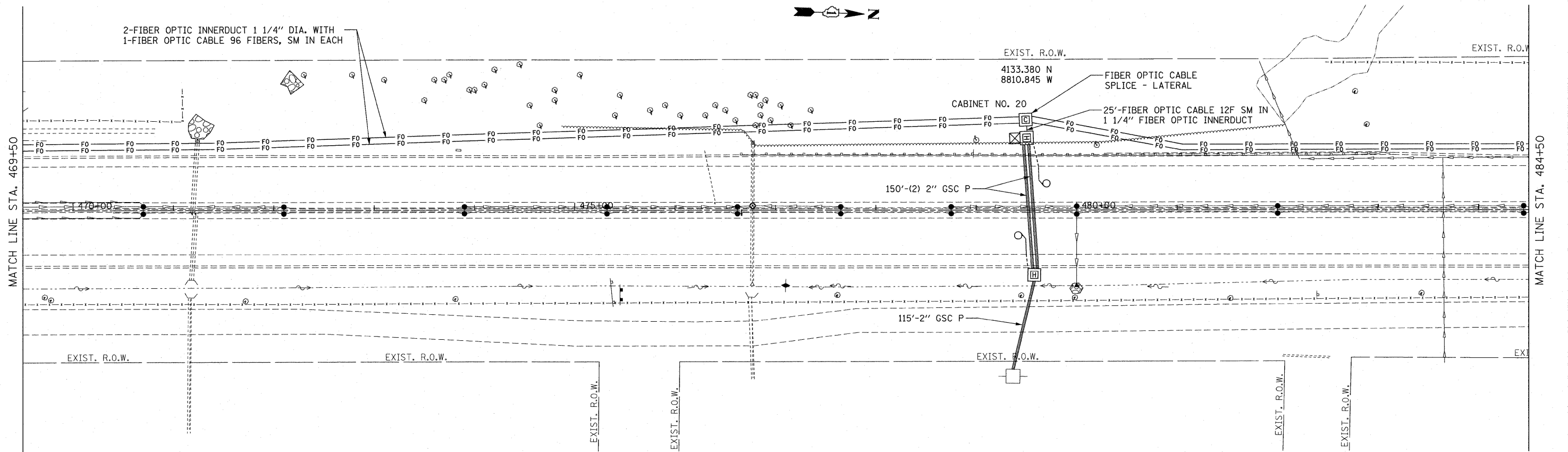
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 DMS #34, CCTV #38, 1 MILE NORTH OF BLACK RD.**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 17 |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



FILE NAME = P:\P-07-1600-11\Design\Sht\SHT018.dgn

USER NAME = wingram
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/28/2010

| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 1/2 MILE SOUTH OF CATON FARM ROAD**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 18 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

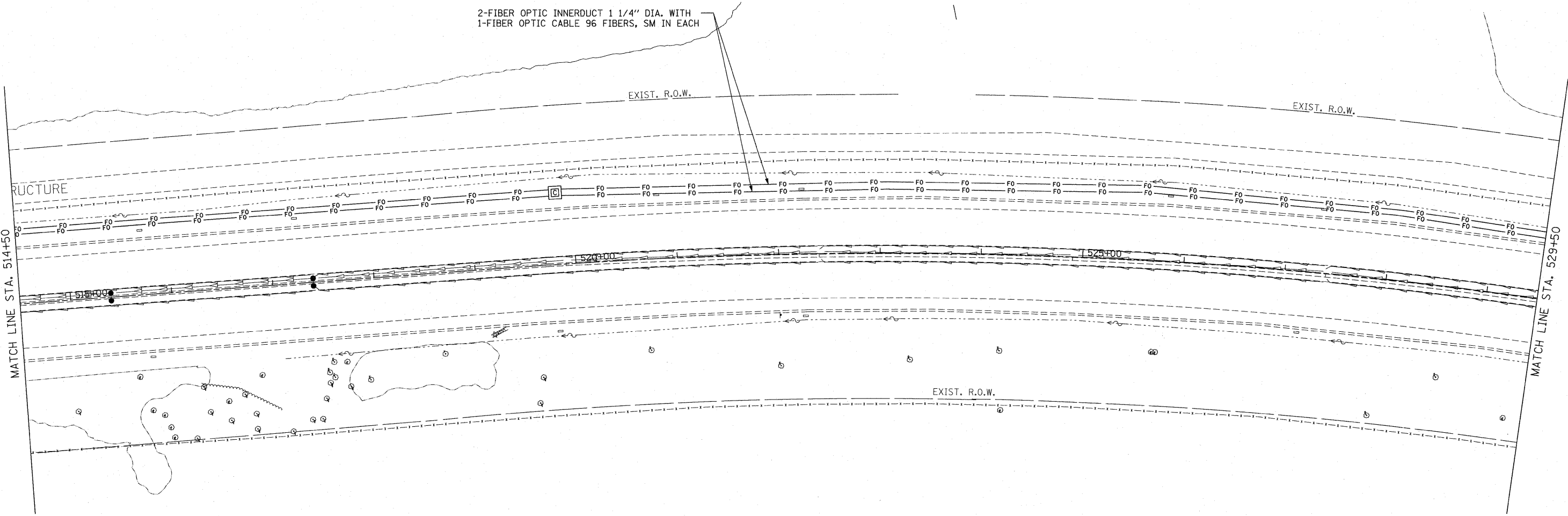
EXIST. R.O.W.

EXIST. R.O.W.

STRUCTURE

MATCH LINE STA. 514+50

MATCH LINE STA. 529+50



FILE NAME =
P:\P-07-1600-11\Design\Sht\SHT020.dgn

USER NAME = wingram
DESIGNED -
DRAWN -
PLOT SCALE = #SCALE#
PLOT DATE = 4/20/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

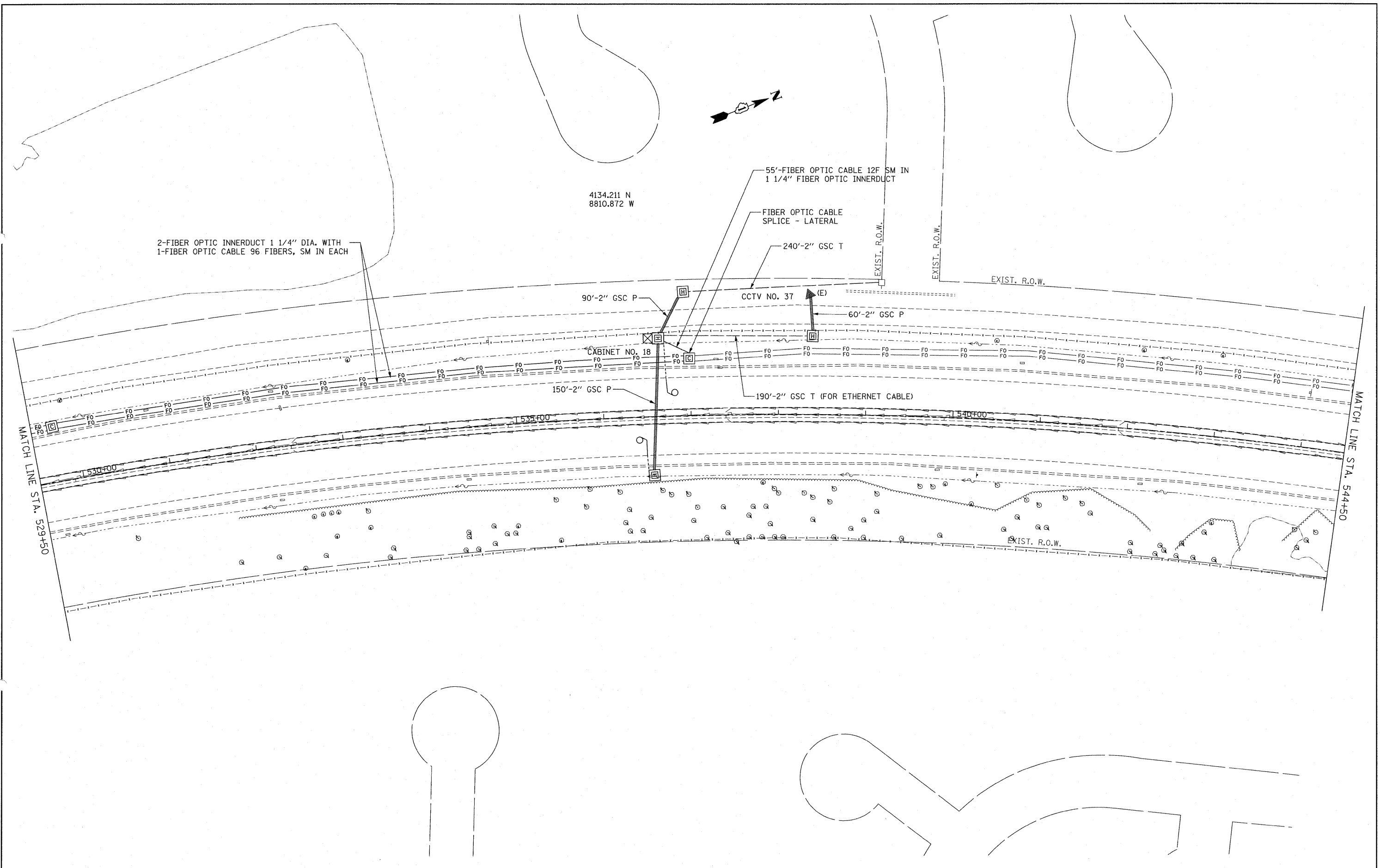
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
STA 514+50 TO STA 529+50**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-------------|---------------------------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 20 |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

CONTRACT NO. 60K06



4134.211 N
8810.872 W

2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

55'-FIBER OPTIC CABLE 12F SM IN
1 1/4" FIBER OPTIC INNERDUCT

FIBER OPTIC CABLE
SPLICE - LATERAL

240'-2" GSC T

90'-2" GSC P

CCTV NO. 37 (E)

60'-2" GSC P

CABINET NO. 18

150'-2" GSC P

190'-2" GSC T (FOR ETHERNET CABLE)

MATCH LINE STA. 529+50

MATCH LINE STA. 544+50

FILE NAME =
P:\P-07-1600-11\Design\Shet\SH021.dgn

USER NAME = wingram
PLOT SCALE = #SCALE#
PLOT DATE = 4/28/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

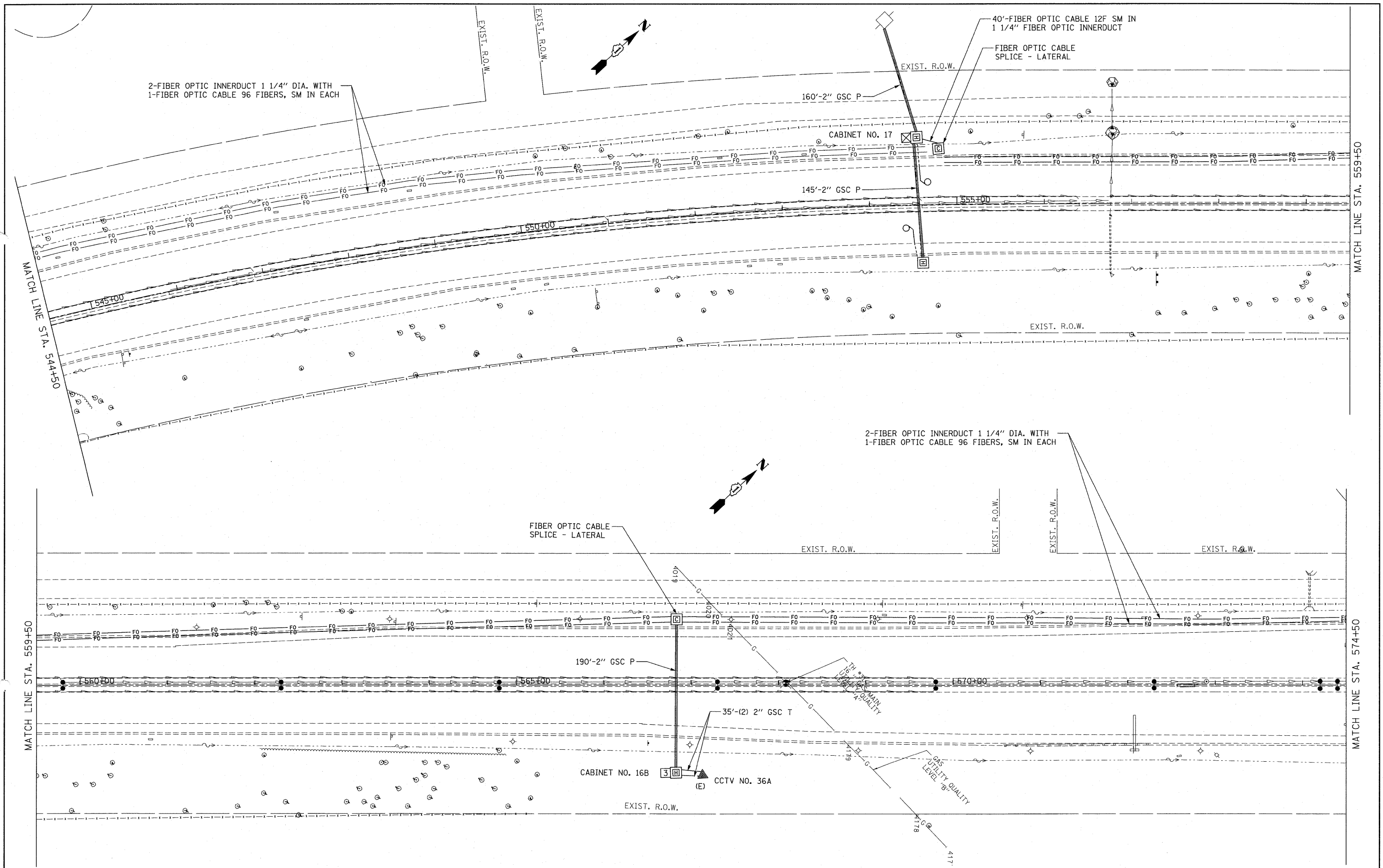
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
1/2 MILE NORTH OF CATON FARM ROAD**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 21 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

40'-FIBER OPTIC CABLE 12F SM IN
1 1/4" FIBER OPTIC INNERDUCT

FIBER OPTIC CABLE
SPLICE - LATERAL

2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

FIBER OPTIC CABLE
SPLICE - LATERAL

FILE NAME =
P:\P-07-1600-11\Design\Sh\T\SHT022.dgn

USER NAME = wingram
DESIGNED -
DRAWN -
PLOT SCALE = #SCALE#
PLOT DATE = 4/20/2010

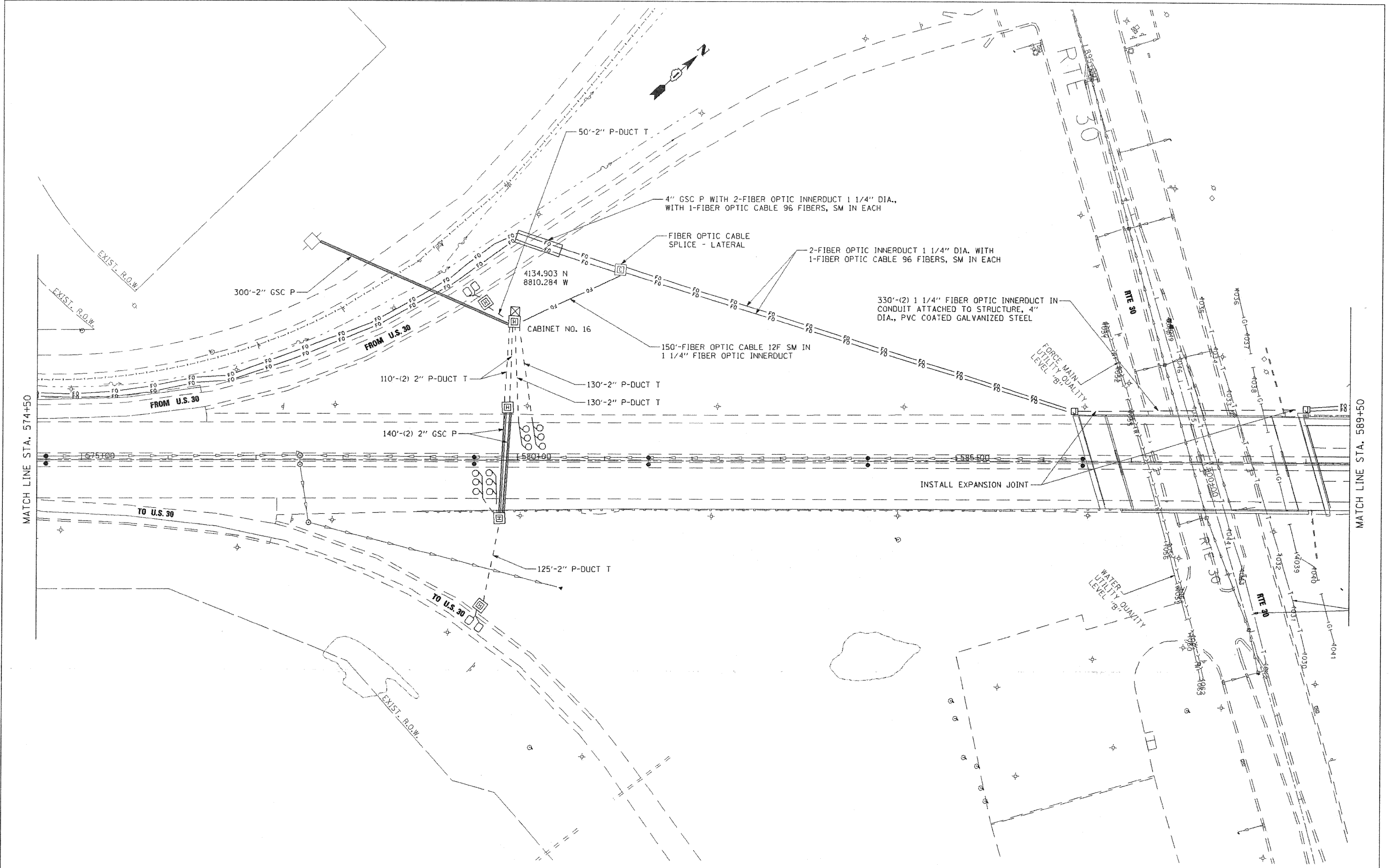
DESIGNED -
DRAWN -
CHECKED -
DATE -
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
1/2 MILE SOUTH OF US RTE 30**

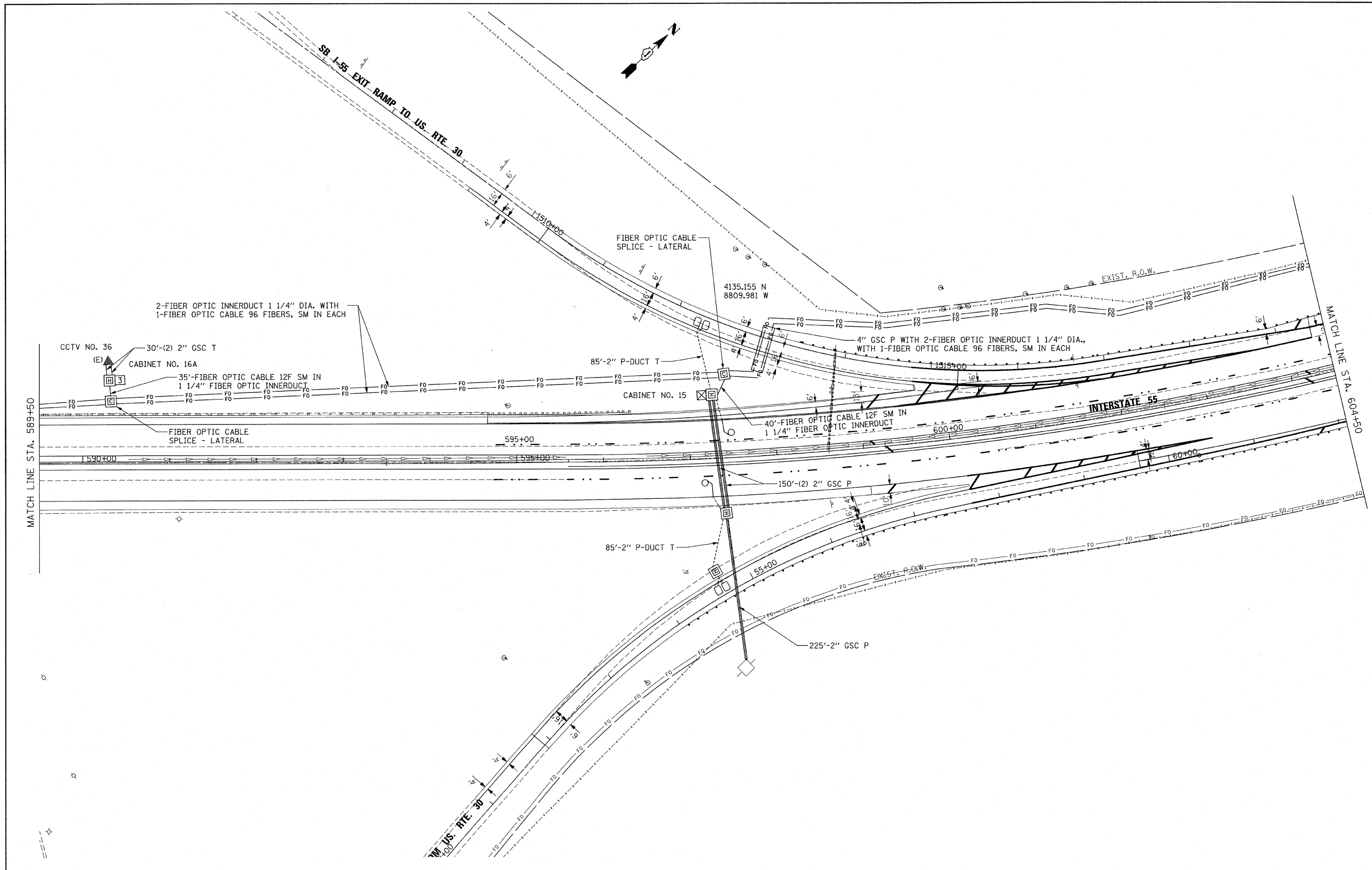
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 22 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

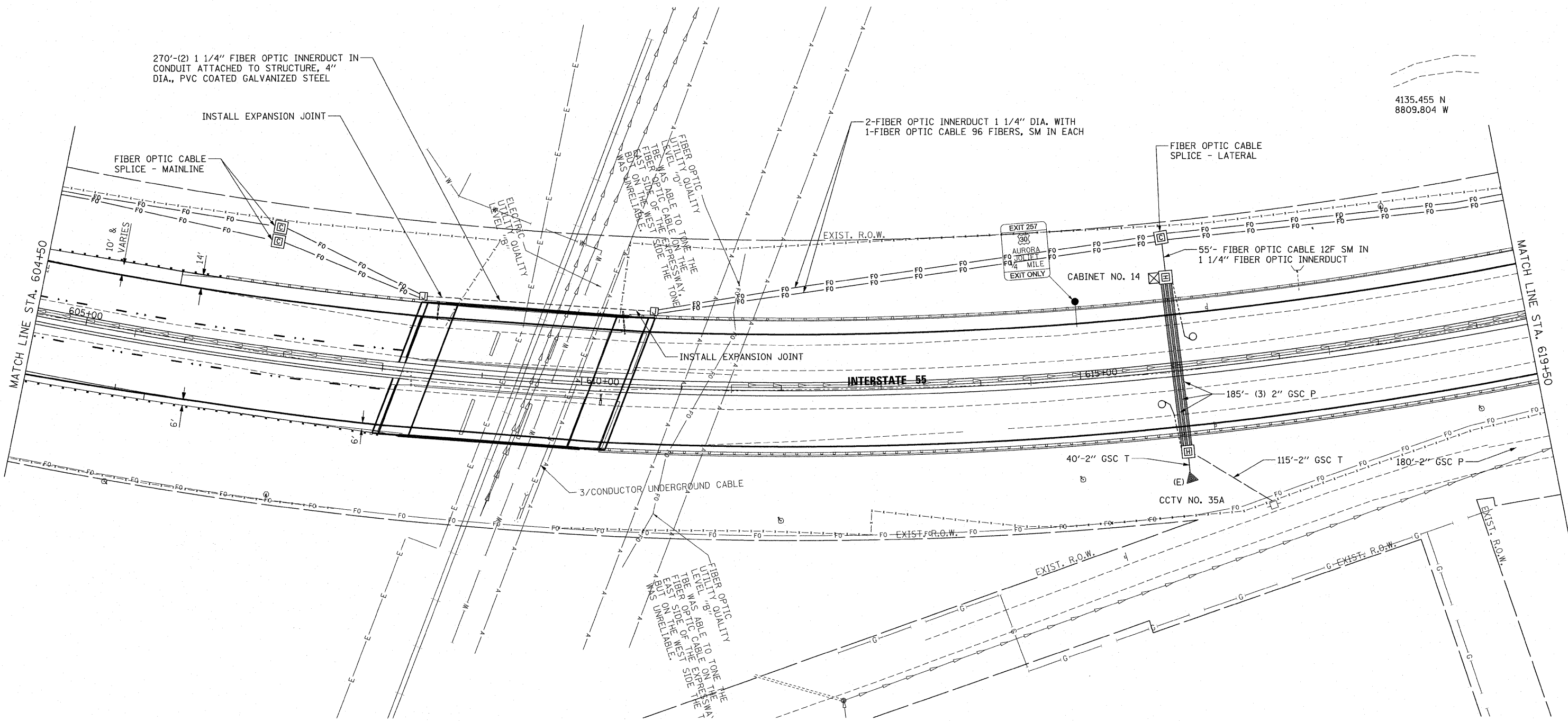


| | | | | | | | | | | | |
|------------------------|----------------------|------------|-----------|---|--|--------------------|-------------|--------|-----------------|--------------|---------|
| FILE NAME = *FILEL* | USER NAME = *USER* | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) SOUTH US RTE 30 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE = *SCALE* | CHECKED - | REVISED - | | | 55 | 2009-139 SG | WILL | 74 | 23 | |
| | PLOT DATE = *DATE* | DATE - | REVISED - | | | CONTRACT NO. 60K06 | | | | | |
| | | | | | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. |

\\Design\Sh\SH\T023.dwg 4/21/2010 11:14:00 AM



| | | | | | | | | | | | | |
|---|-----------------------|------------|---|---|--|-----------|----|--------------------|-------------|---------|-----------------|--------------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1024.dgn | USER NAME = rdahhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) N US ROUTE 30 | | | F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | | | | 55 | 2009-139 5G | WILL | 74 | 24 |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | | | CONTRACT NO. 60K06 | | | | |
| | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | | | |
| | | | | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. | | |



4135.455 N
8809.804 W

FILE NAME =
P:\P-07-1600-11\Design\Sht\SH025.dgn

USER NAME = wingram
PLOT SCALE = #SCALE#
PLOT DATE = 4/9/2010

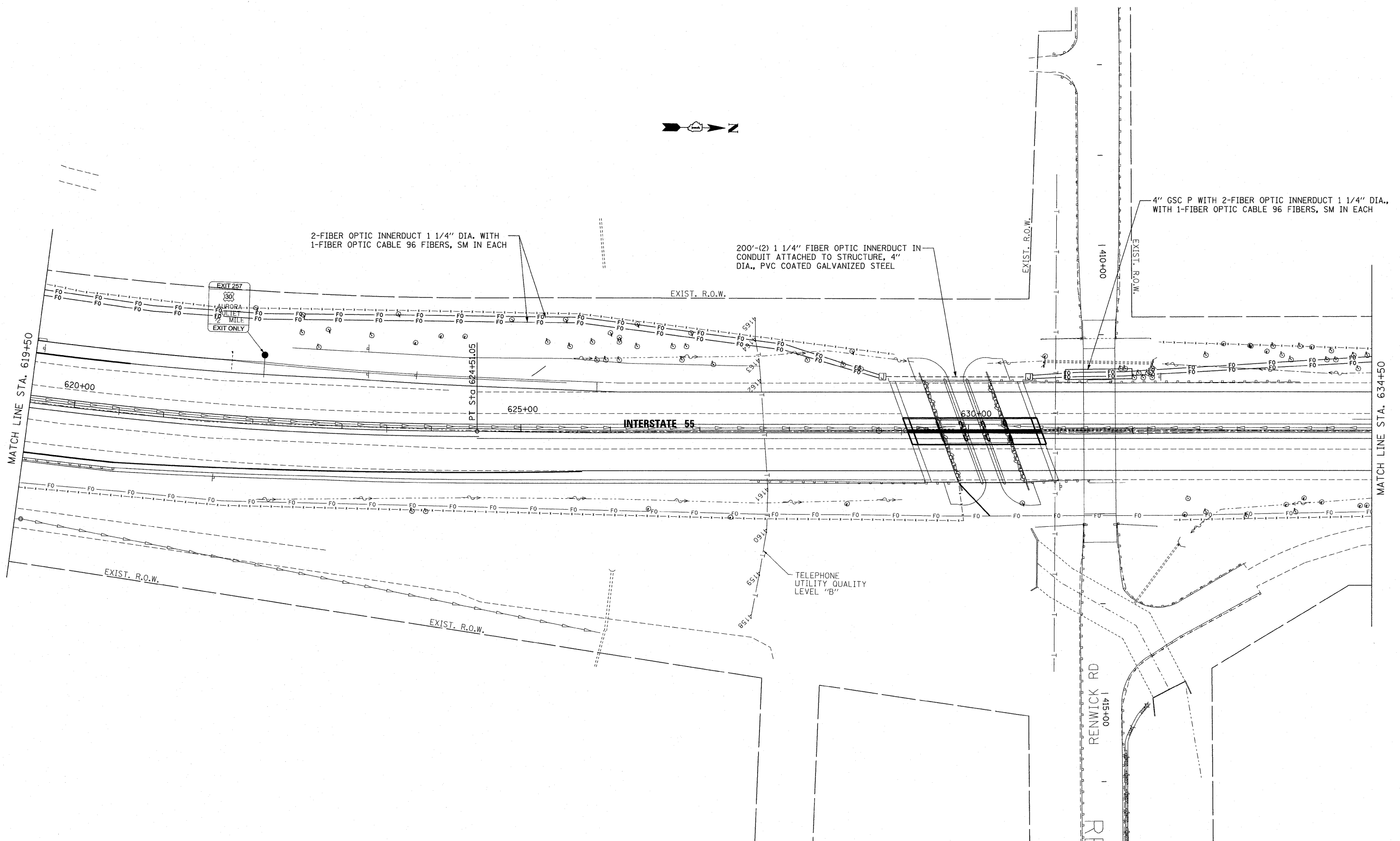
| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
1/2 MILE N OF RTE 30**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 25 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

200'-(2) 1 1/4" FIBER OPTIC INNERDUCT IN
CONDUIT ATTACHED TO STRUCTURE, 4"
DIA., PVC COATED GALVANIZED STEEL

4" GSC P WITH 2-FIBER OPTIC INNERDUCT 1 1/4" DIA.,
WITH 1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

INTERSTATE 55

TELEPHONE
UTILITY QUALITY
LEVEL "B"

RENWICK RD
1415+00

FILE NAME =
P:\P-07-1600-11\Design\Sht\SH026.dgn

USER NAME = wingram

DESIGNED -

REVISED -

DRAWN -

REVISED -

CHECKED -

REVISED -

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

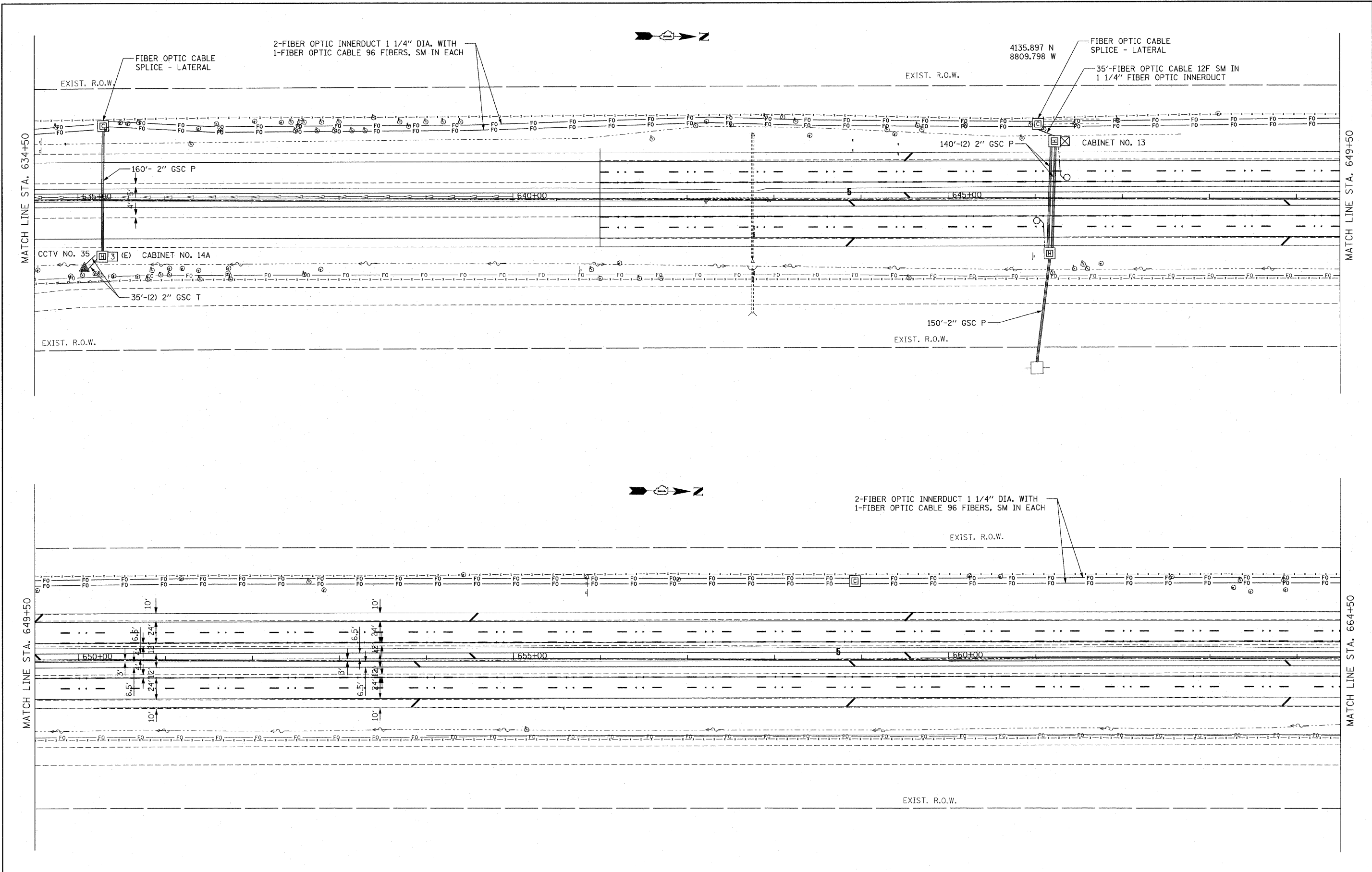
FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
STA 619+50 TO STA 634+50

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 26 |

CONTRACT NO. 60K06

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



FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1027.dgn
 USER NAME = rdahhan

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

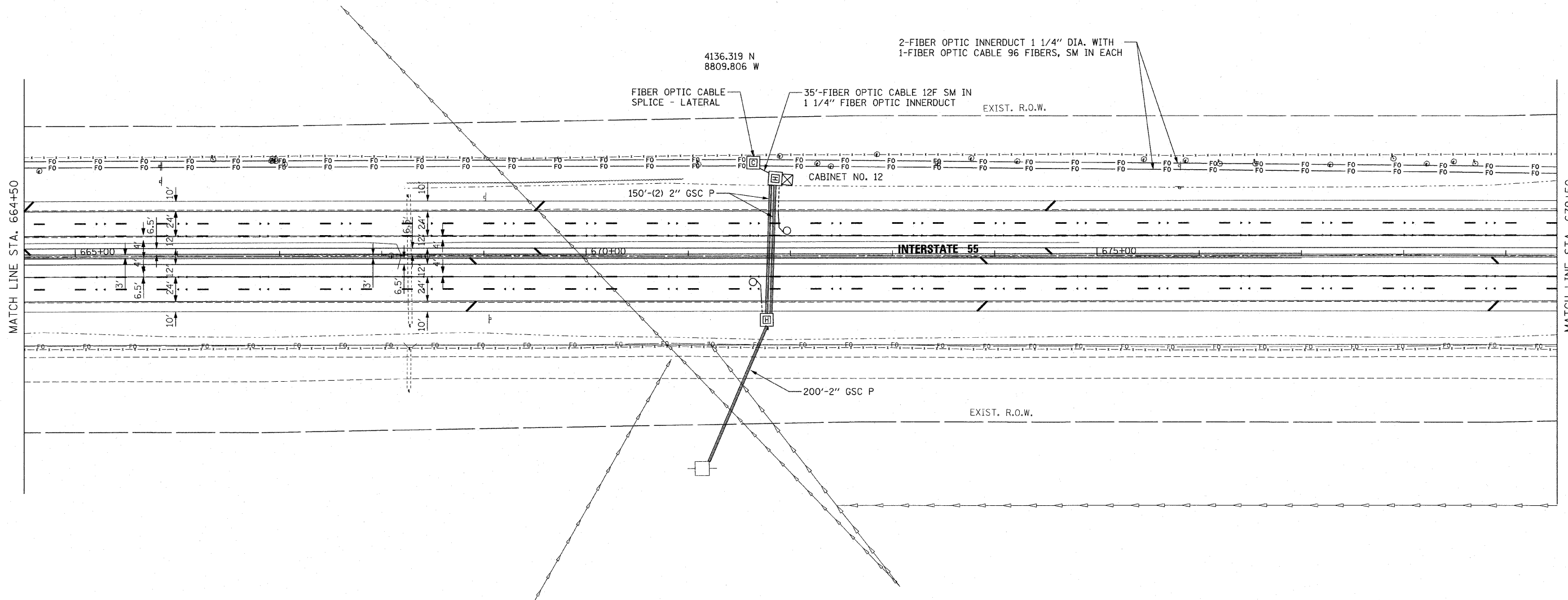
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 1 MILE N OF RTE 30**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 5G | WILL | 74 | 27 |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



FILE NAME =
P:\NP-07-1600-11\Design\Shi\SHI028.dgn

USER NAME = rdahhan
PLOT SCALE = #SCALE#
PLOT DATE = 3/18/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

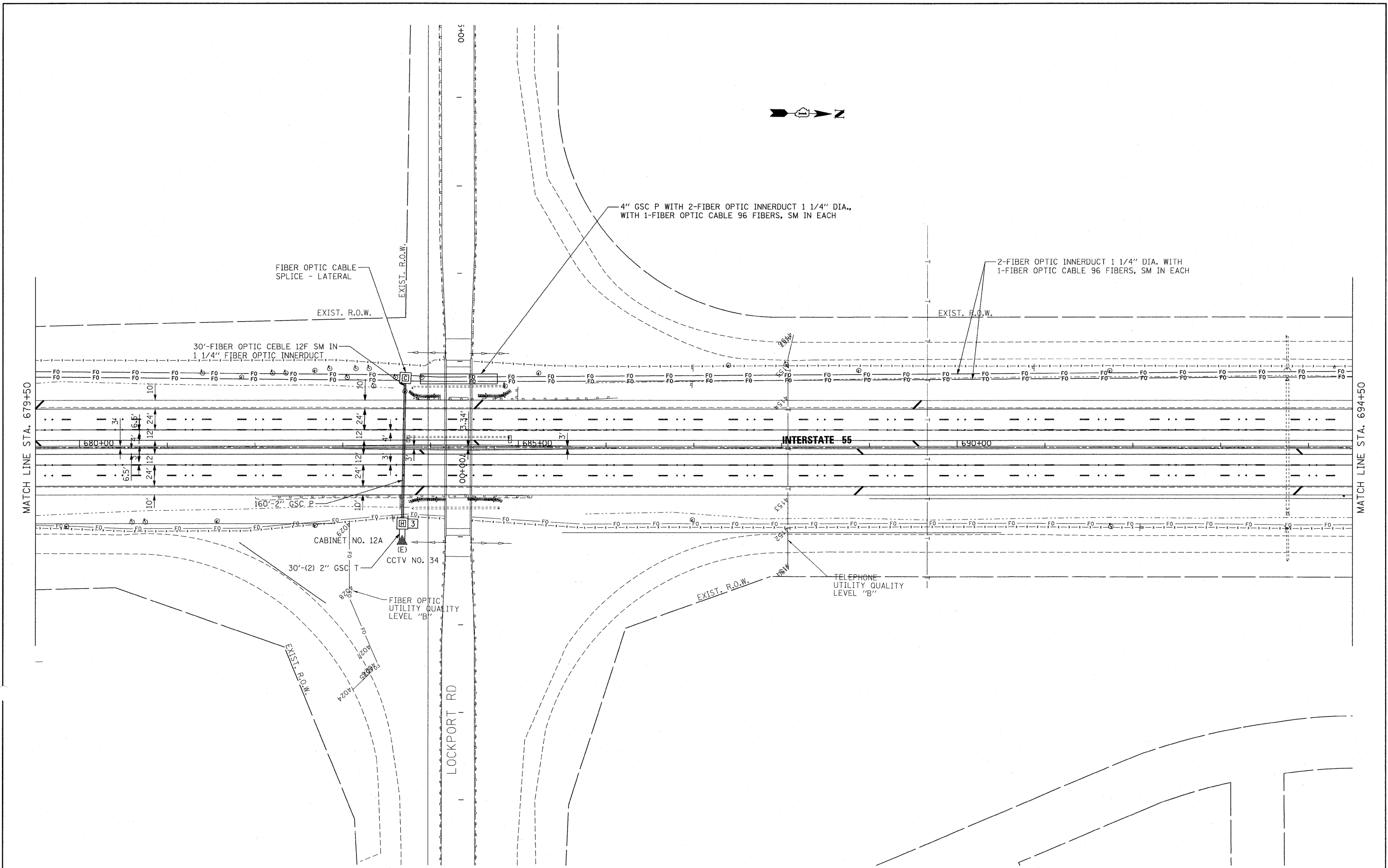
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
SOUTH OF LOCKPORT ROAD**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 5G | WILL | 74 | 28 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



FILE NAME =
 P:\P-07-1600-11\Design\Sh\SH029.dgn

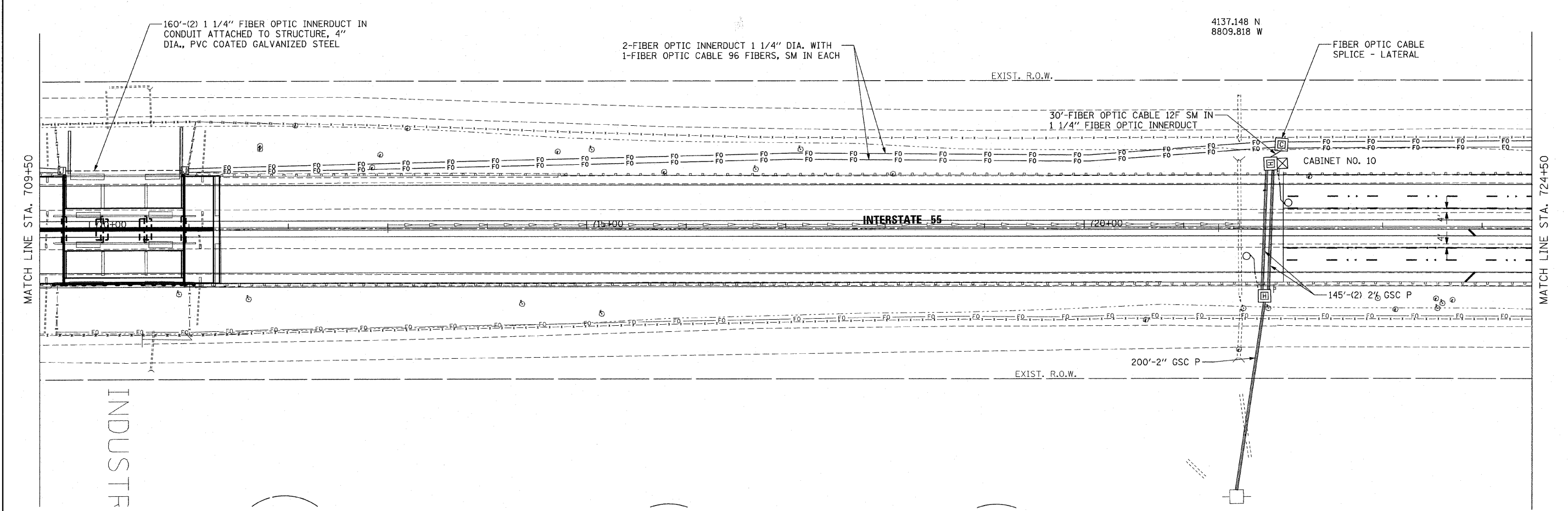
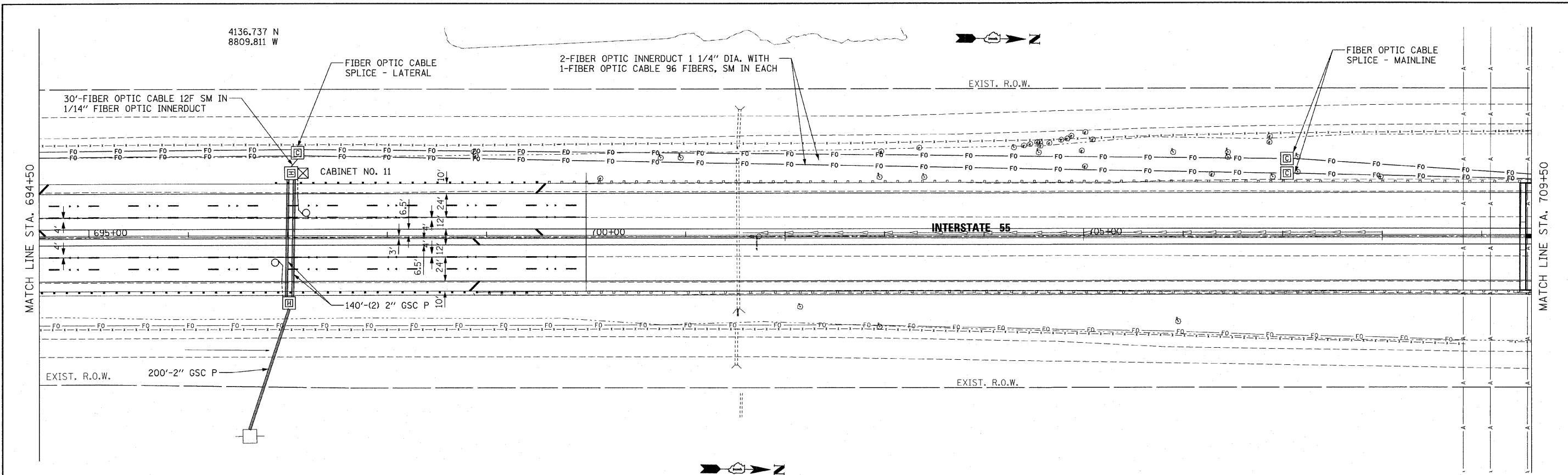
| | | |
|-----------------------|------------|-----------|
| USER NAME = wjgram | DESIGNED - | REVISED - |
| PLOT SCALE = #SCALE# | DRAWN - | REVISED - |
| PLOT DATE = 4/20/2010 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

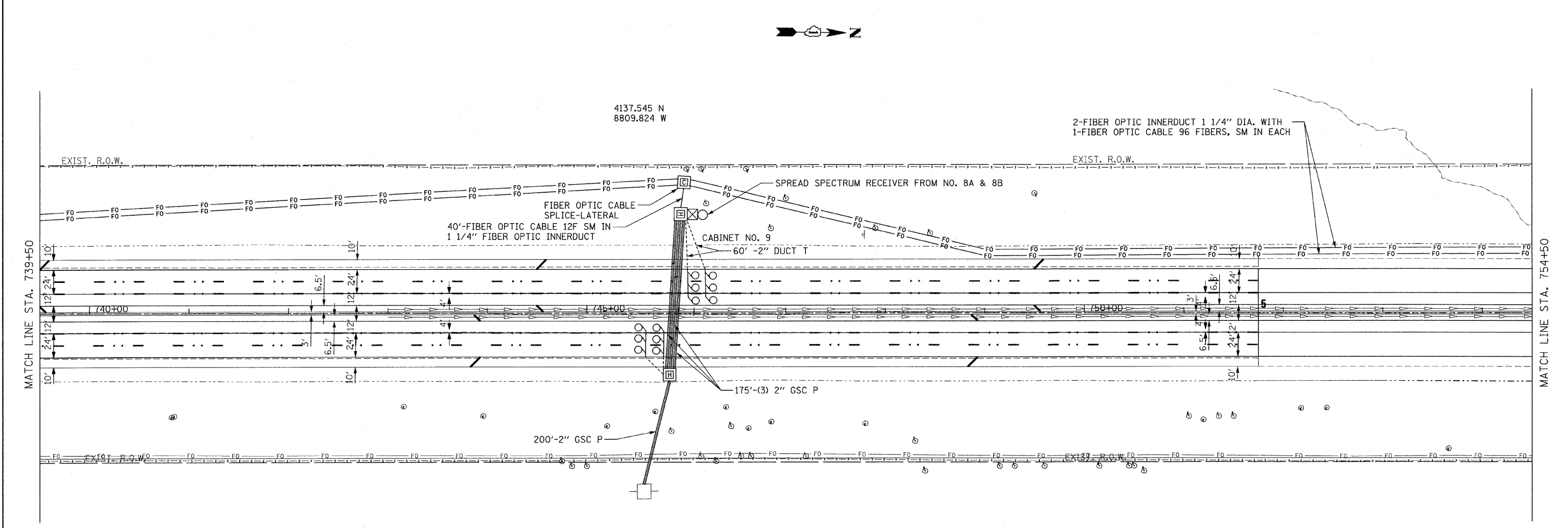
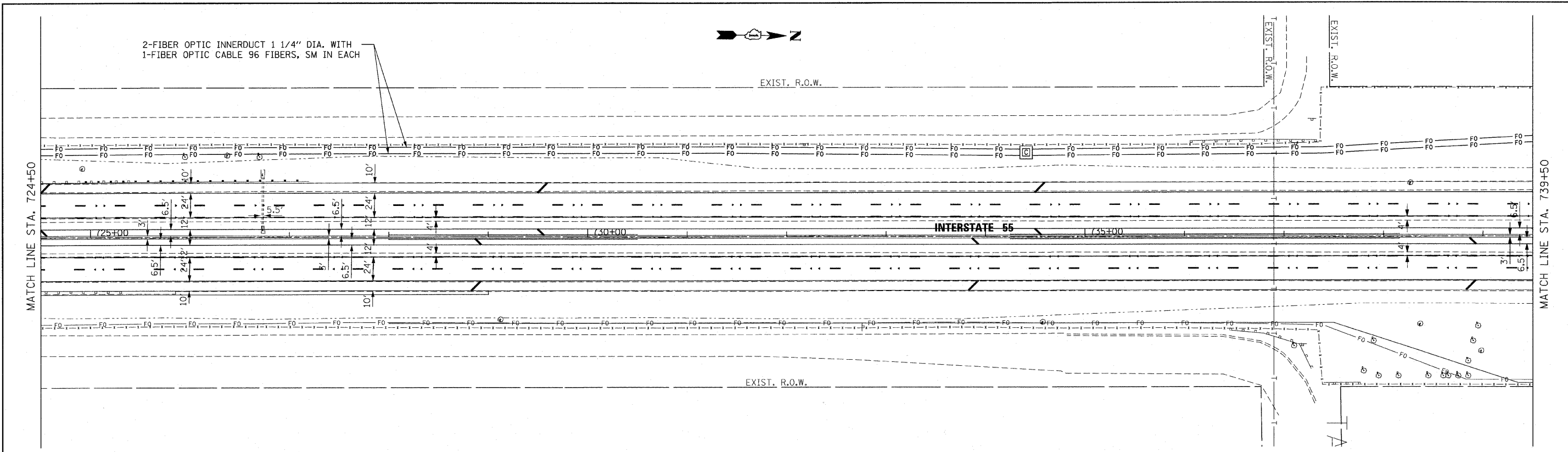
**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 LOCKPORT ROAD CCTV NO. 34**

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

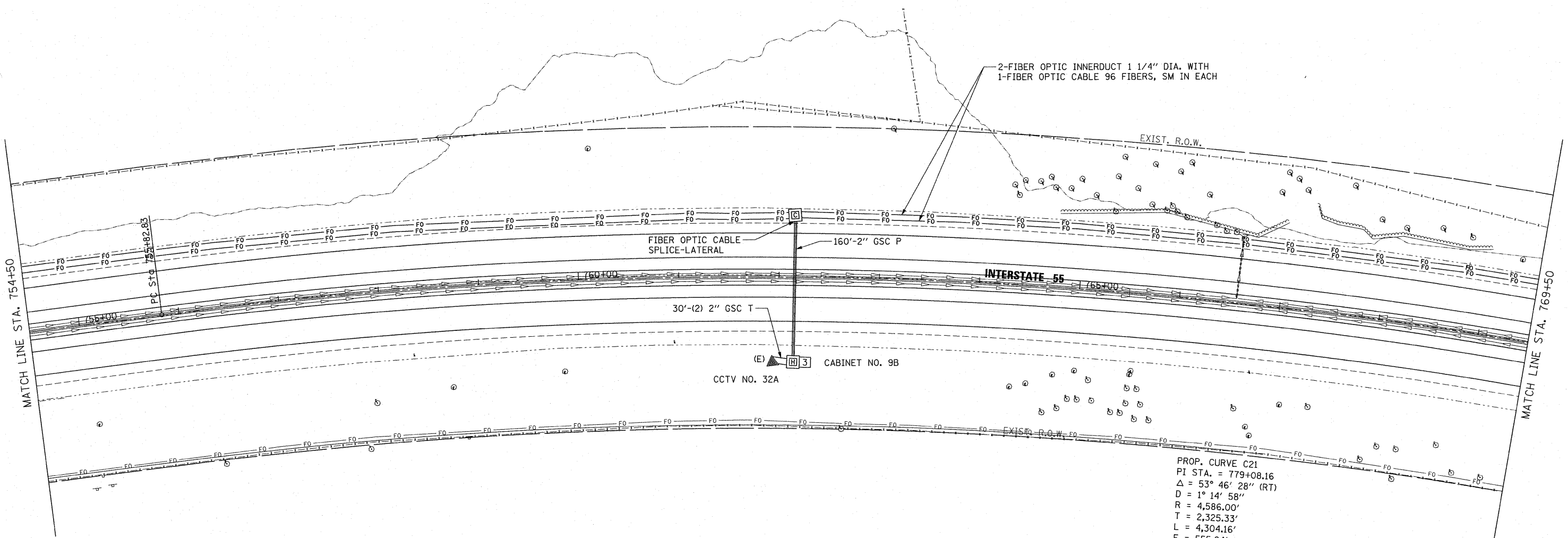
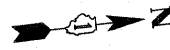
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 29 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



| | | | | | | | | | | | | |
|--|------------------------|------------|-----------|---|---|-----------|----|----------------|---------------------|-------------|---------------------------|--------------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1030.dgn | USER NAME = rdahhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) 1/2 MILE AND 1 MILE N OF LOCKPORT ROAD | | | F.A.I. RTE. 55 | SECTION 2009-139 5G | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 30 |
| | PLOT SCALE = \$SCALE\$ | DRAWN - | REVISED - | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. | CONTRACT NO. 60K06 | |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | | | | | | ILLINOIS FED. AID PROJECT | |
| | | DATE - | REVISED - | | | | | | | | | |

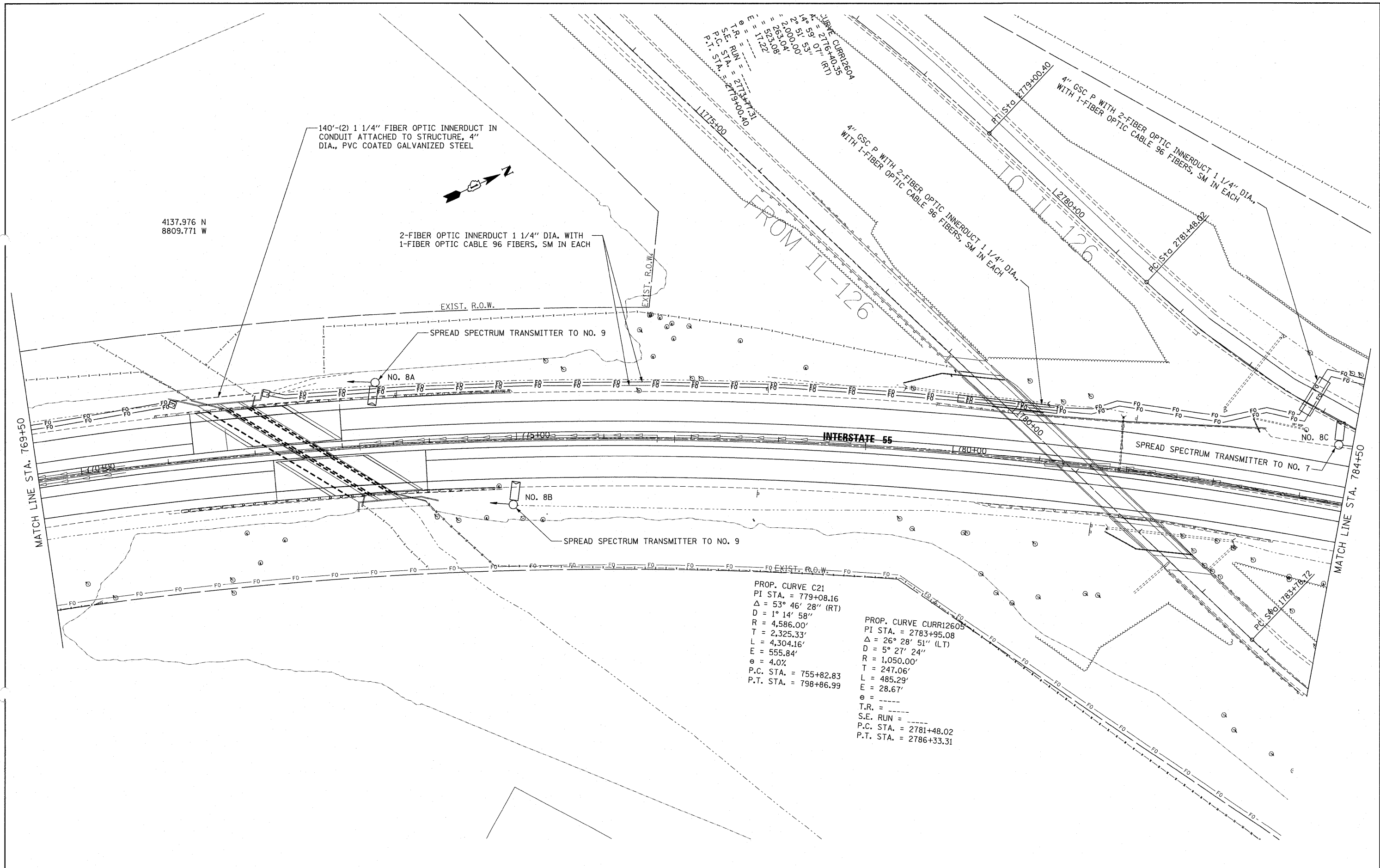


| | | | | | | | | | | | | |
|--|---------------------|------------|-----------------|---|---|---|--|----------------|---------------------|-------------|-----------------|--------------------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1031.dgn | USER NAME = rdehhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) 1/2 MILE S OF IL 126 | | | F.A.I. RTE. 55 | SECTION 2009-139 5G | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 31 |
| PLOT SCALE = #SCALE# | CHECKED - | REVISED - | SCALE: 1" = 50' | | | | | SHEET NO. | OF SHEETS | STA. | TO STA. | CONTRACT NO. 60K06 |
| PLOT DATE = 3/18/2010 | DATE - | REVISED - | | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | |
| | | | | | | | | | | | | |



PROP. CURVE C21
 PI STA. = 779+08.16
 Δ = 53° 46' 28" (RT)
 D = 1° 14' 58"
 R = 4,586.00'
 T = 2,325.33'
 L = 4,304.16'
 E = 555.84'
 e = ---
 P.C. STA. = 755+82.83
 P.T. STA. = 798+86.99

| | | | | | | | | | | | |
|---|--------------------|------------|-----------|---|---|---------------------|----------------------|------------------------|----------------|---------------------------|--------------------|
| FILE NAME = P:\P-07-1600-11\Design\ShT\SH032.dgn | USER NAME = wjngam | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) CCTV 32A | | F.A.I. RTE. 55 | SECTION 2009-139 SG | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 32 |
| PLOT SCALE = #SCALE# | CHECKED - | REVISED - | REVISED - | | SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. 60K06 | | ILLINOIS FED. AID PROJECT | |
| PLOT DATE = 4/9/2010 | DATE - | REVISED - | REVISED - | | | | | | | | |
| | | | | | | | | | | | |



CURVE CURR12604
 Δ = 27° 16' 40.35"
 R = 2,000.00'
 T = 51' 53"
 L = 271.94'
 P.C. STA. = 2719+00.40
 P.T. STA. = 2719+00.40

4137.976 N
8809.771 W

140'-(2) 1 1/4" FIBER OPTIC INNERDUCT IN CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL

2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH 1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

EXIST. R.O.W.

SPREAD SPECTRUM TRANSMITTER TO NO. 9

NO. 8A

NO. 8B

SPREAD SPECTRUM TRANSMITTER TO NO. 9

NO. 8C

SPREAD SPECTRUM TRANSMITTER TO NO. 7

PROP. CURVE C21
 PI STA. = 779+08.16
 Δ = 53° 46' 28" (RT)
 D = 1° 14' 58"
 R = 4,586.00'
 T = 2,325.33'
 L = 4,304.16'
 E = 555.84'
 e = 4.0%
 P.C. STA. = 755+82.83
 P.T. STA. = 798+86.99

PROP. CURVE CURR12605
 PI STA. = 2783+95.08
 Δ = 26° 28' 51" (LT)
 D = 5° 27' 24"
 R = 1,050.00'
 T = 247.06'
 L = 485.29'
 E = 28.67'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 2781+48.02
 P.T. STA. = 2786+33.31

FILE NAME =
 P:\P-07-1600-11\Design\Sh\SHT033.dgn

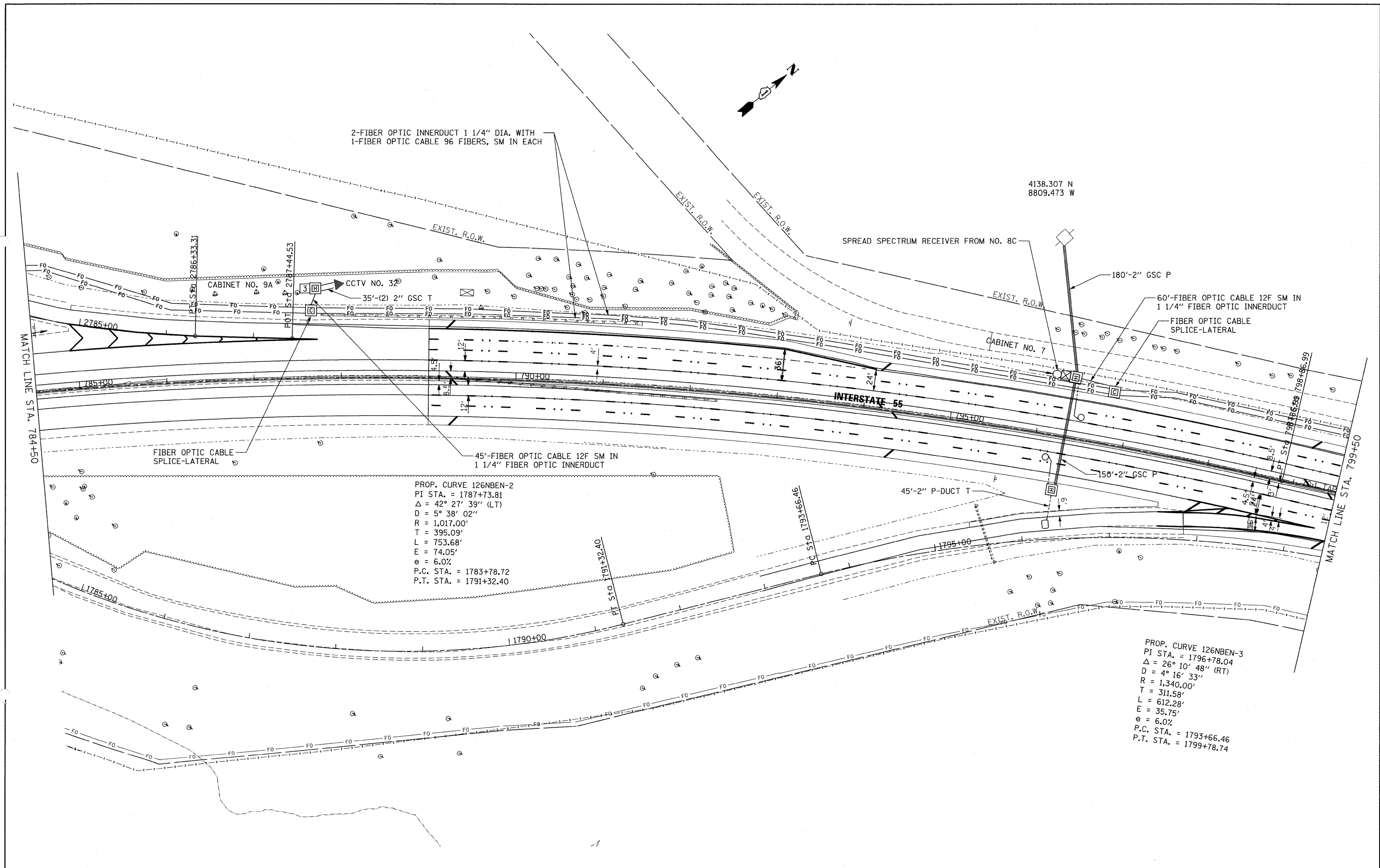
| | | |
|-----------------------|------------|-----------|
| USER NAME = wjngam | DESIGNED - | REVISED - |
| PLOT SCALE = #SCALE# | DRAWN - | REVISED - |
| PLOT DATE = 4/20/2010 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
SOUTH IL 126

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

| | | | | |
|---|-------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | 74 | 33 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

4138.307 N
8809.473 W

SPREAD SPECTRUM RECEIVER FROM NO. 8C

CABINET NO. 9A

CCTV NO. 32

60'-FIBER OPTIC CABLE 12F SM IN
1 1/4" FIBER OPTIC INNERDUCT

FIBER OPTIC CABLE
SPLICE-LATERAL

CABINET NO. 7

INTERSTATE 55

FIBER OPTIC CABLE
SPLICE-LATERAL

45'-FIBER OPTIC CABLE 12F SM IN
1 1/4" FIBER OPTIC INNERDUCT

45'-2" P-DUCT T

150'-2" GSC P

PROP. CURVE 126NBEN-2
PI STA. = 1787+73.81
 $\Delta = 42^\circ 27' 39''$ (LT)
D = 5° 38' 02"
R = 1,017.00'
T = 395.09'
L = 753.68'
E = 74.05'
e = 6.0%
P.C. STA. = 1783+78.72
P.T. STA. = 1791+32.40

PROP. CURVE 126NBEN-3
PI STA. = 1796+78.04
 $\Delta = 26^\circ 10' 48''$ (RT)
D = 4° 16' 33"
R = 1,340.00'
T = 311.58'
L = 612.28'
E = 35.75'
e = 6.0%
P.C. STA. = 1793+66.46
P.T. STA. = 1799+78.74

FILE NAME =
P:\P-07-1600-11\Design\Sh\SH1034.dgn

USER NAME = wjgram

DESIGNED -
DRAWN -

REVISED -
REVISED -

PLOT SCALE = #SCALE#

CHECKED -
DATE -

REVISED -
REVISED -

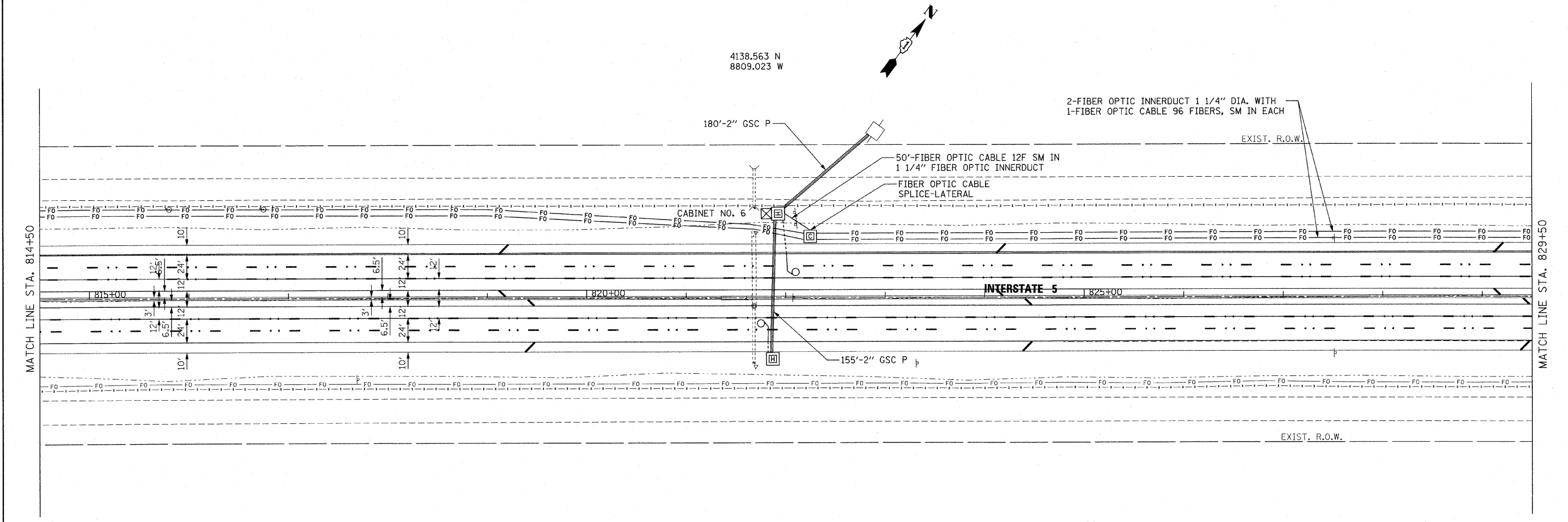
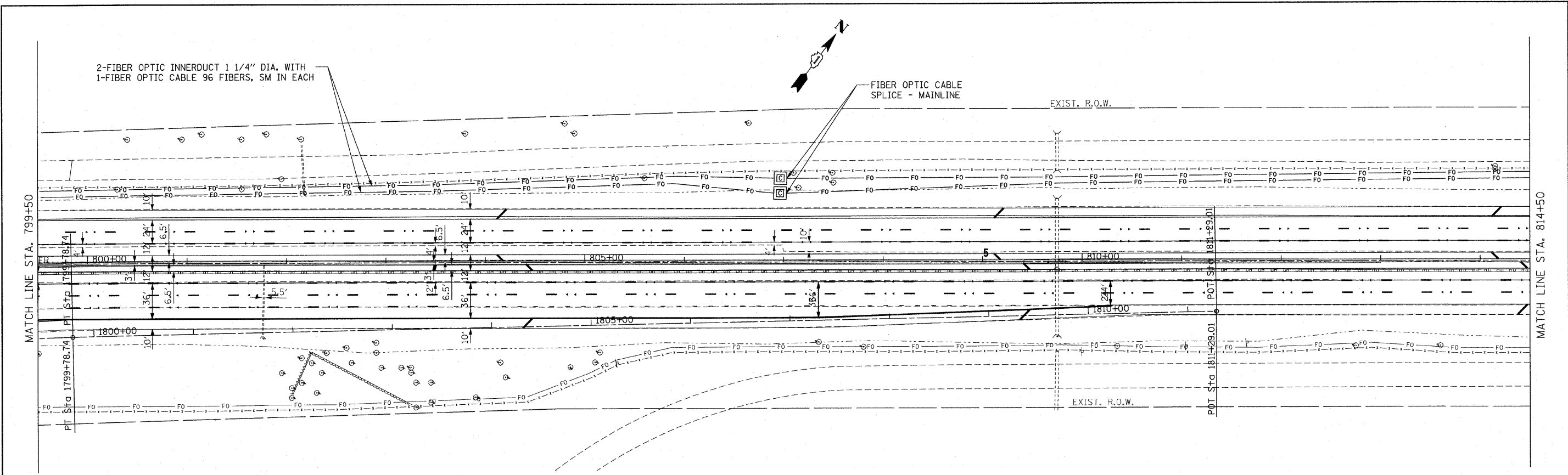
PLOT DATE = 4/20/2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

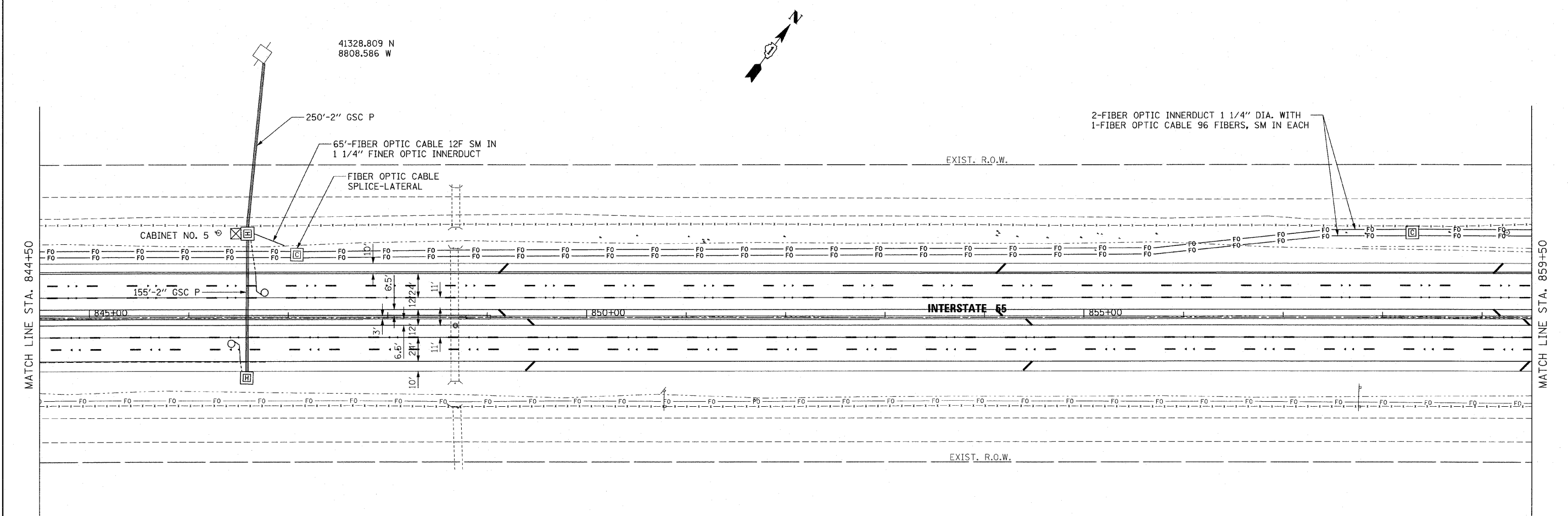
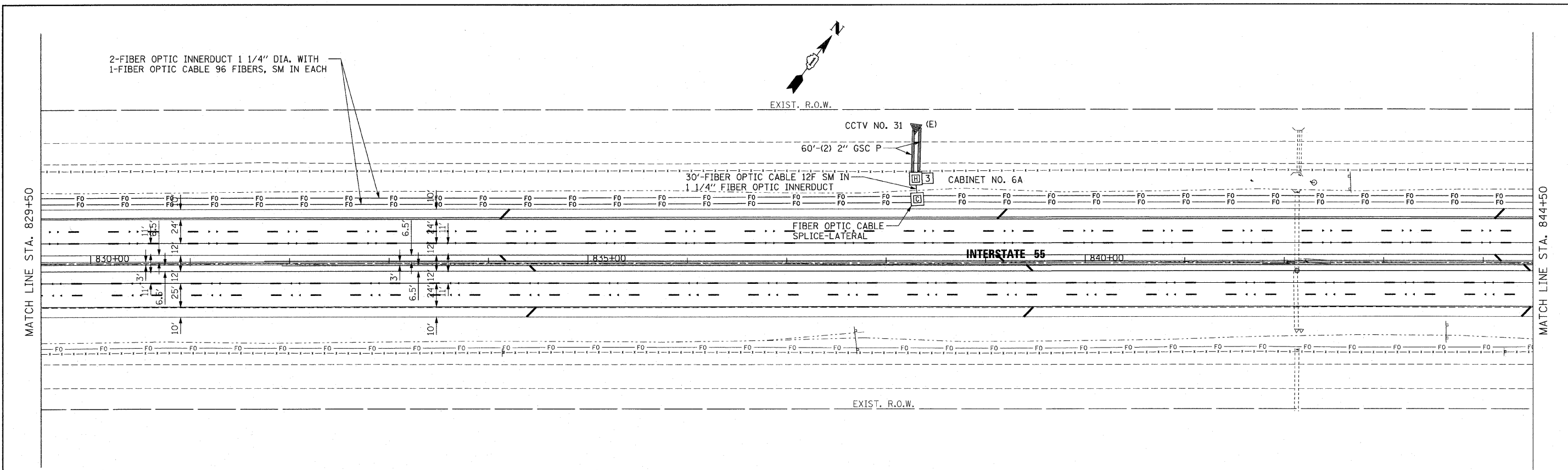
FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
NORTH IL 126

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

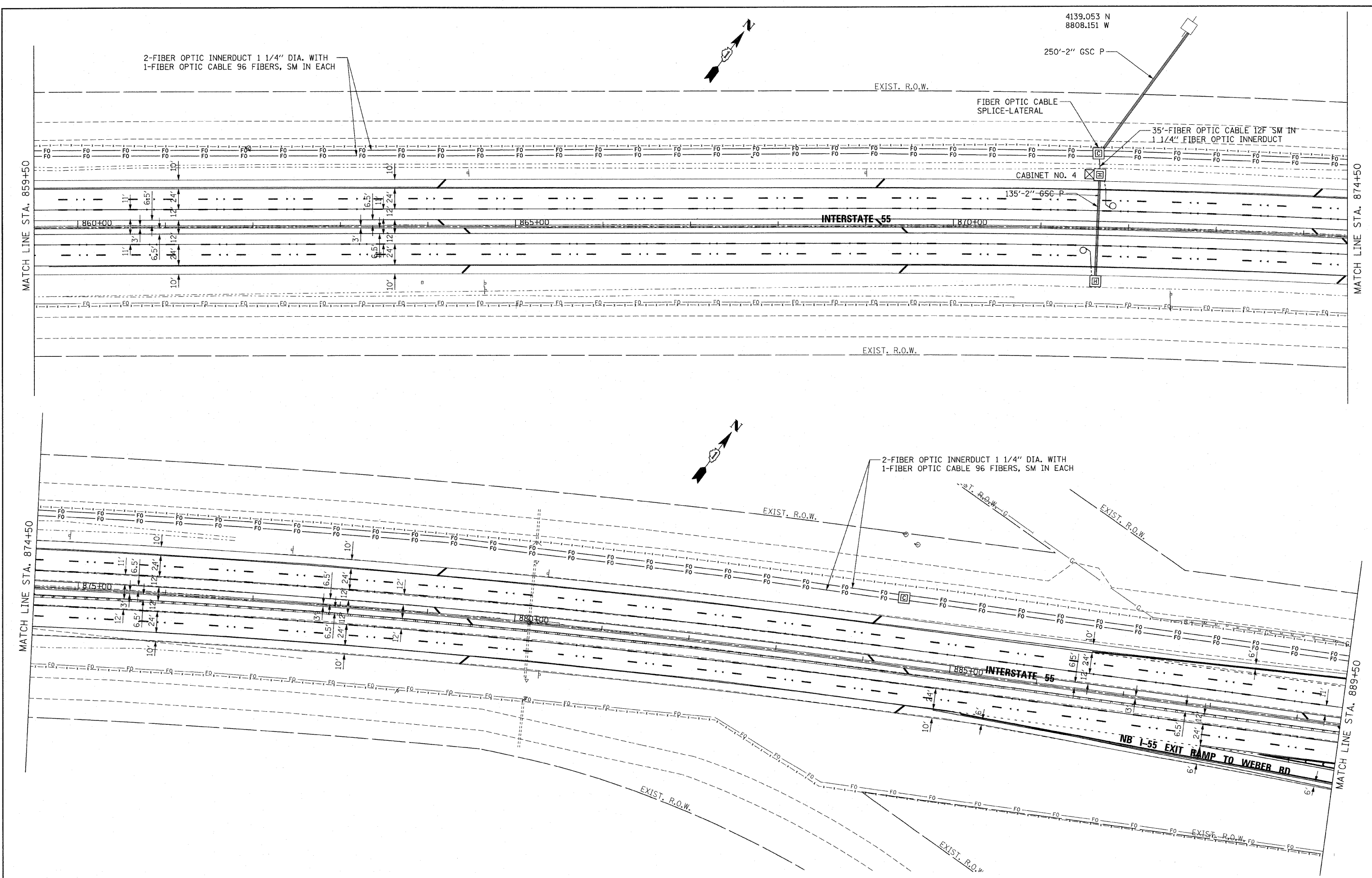
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 34 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



| | | | | | | | | | | | | |
|---|-----------------------|------------|-----------|---|--|----|--------|--------------------|-------------|--------|---|--------------|
| FILE NAME = F:\P-07-1620-11\Design\Sh\SH1835.dgn | USER NAME = rdshhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) 1/2 MILE N OF RTE 126 | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | | | | 55 | 2009-139 SG | WILL | 74 | 35 |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | | | CONTRACT NO. 60K06 | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | |
| | DATE - | REVISED - | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. | | | |



| | | | | | | | | | | |
|---|-----------------------|------------|----------------------------------|---|---|---------------------|---------------------------|--------------------|--------------|-----------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1036.dgn | USER NAME = rdahhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) 1 MILE SOUTH OF WEBER ROAD | F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | | 55 | 2009-139 SG | WILL | 74 | 36 |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | SCALE: 1" = 50' | | CONTRACT NO. 60K06 | | |
| | DATE - | REVISED - | SHEET NO. OF SHEETS STA. TO STA. | | | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | |



FILE NAME = P:\NP-07-1620-11\Design\Sh1\SHT837.dgn
 USER NAME = rdahhan
 PLOT SCALE = *SCALE*
 PLOT DATE = 3/18/2010

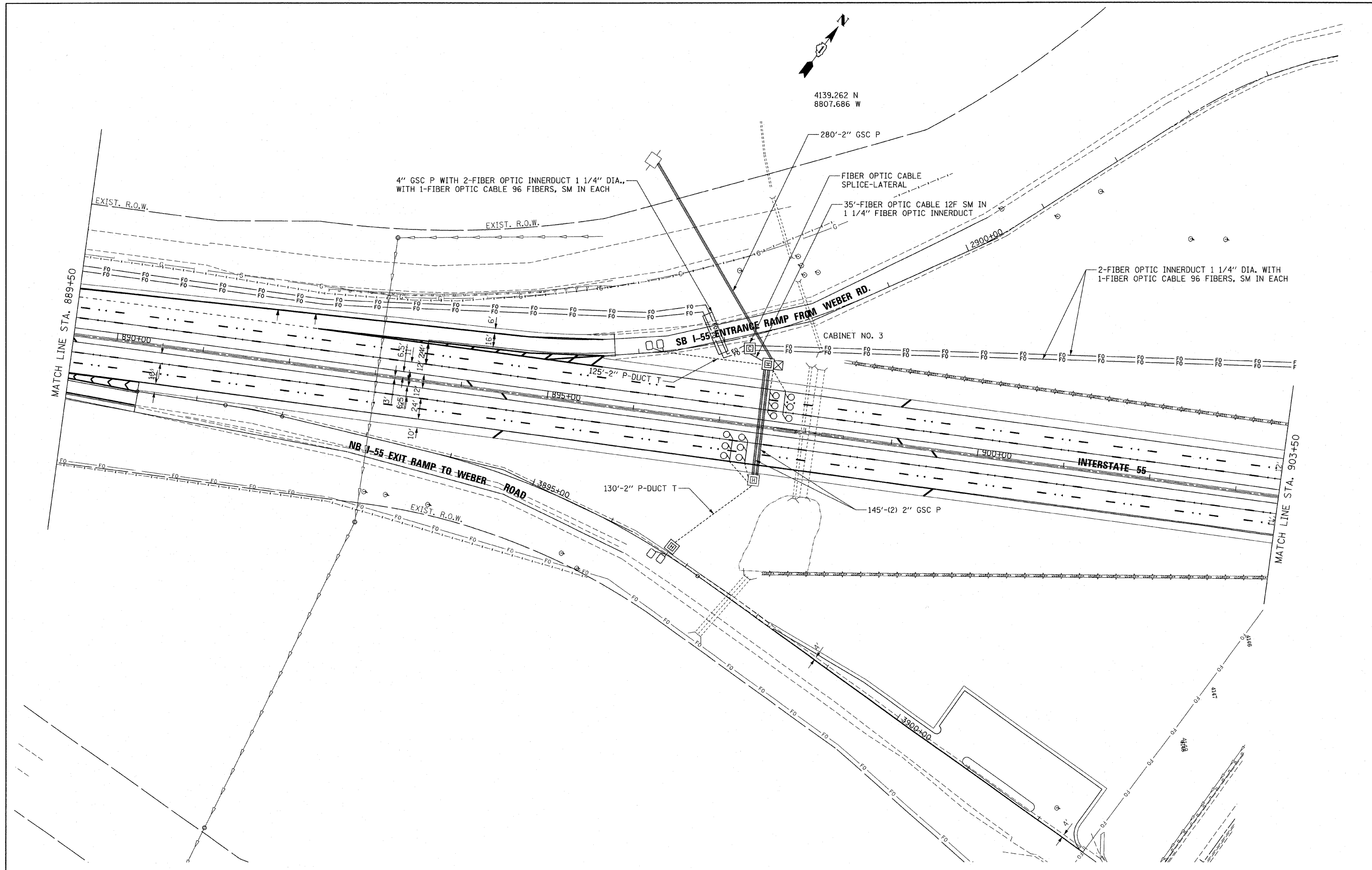
| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 1/2 MILE S OF WEBER ROAD**

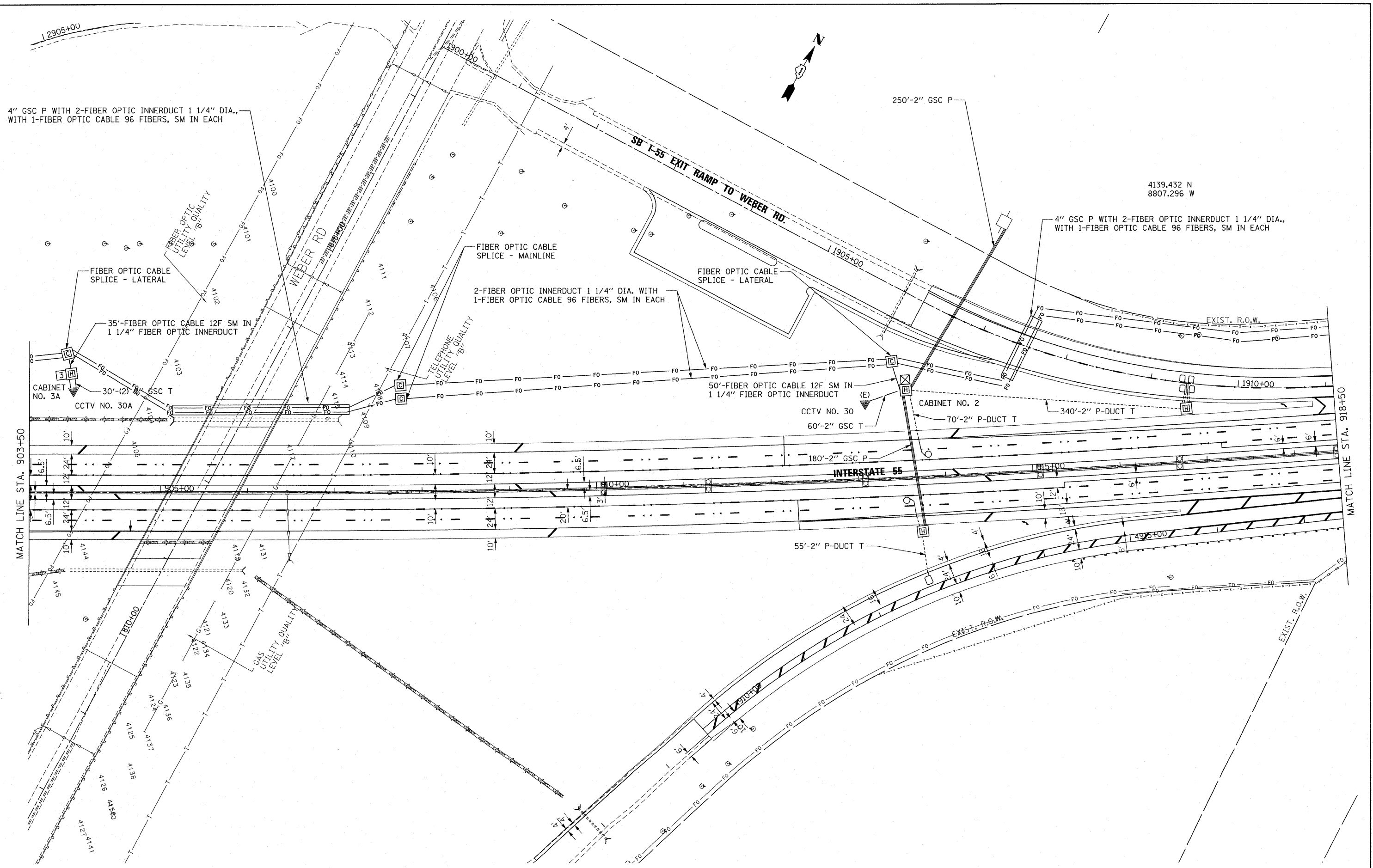
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 37 |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | CONTRACT NO. 60K06 | |



4139.262 N
8807.686 W

| | | | | | | | | | | | | |
|---|-----------------------|------------|-----------|---|---|--|--|--------------------|-------------|--------|-----------------|--------------|
| FILE NAME = P:\NP-07-1600-11\Design\Shit\SHIT036.dgn | USER NAME = rdahhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) SOUTH WEBER ROAD | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - | REVISED - | | | | | 55 | 2009-139 5G | WILL | 74 | 38 |
| | PLOT DATE = 3/18/2018 | CHECKED - | REVISED - | | SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA. | | | CONTRACT NO. 60K06 | | | | |
| | | DATE - | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |



FILE NAME = P:\P-07-1620-11\Design\Sht\SH1039.dgn
 USER NAME = wangram
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

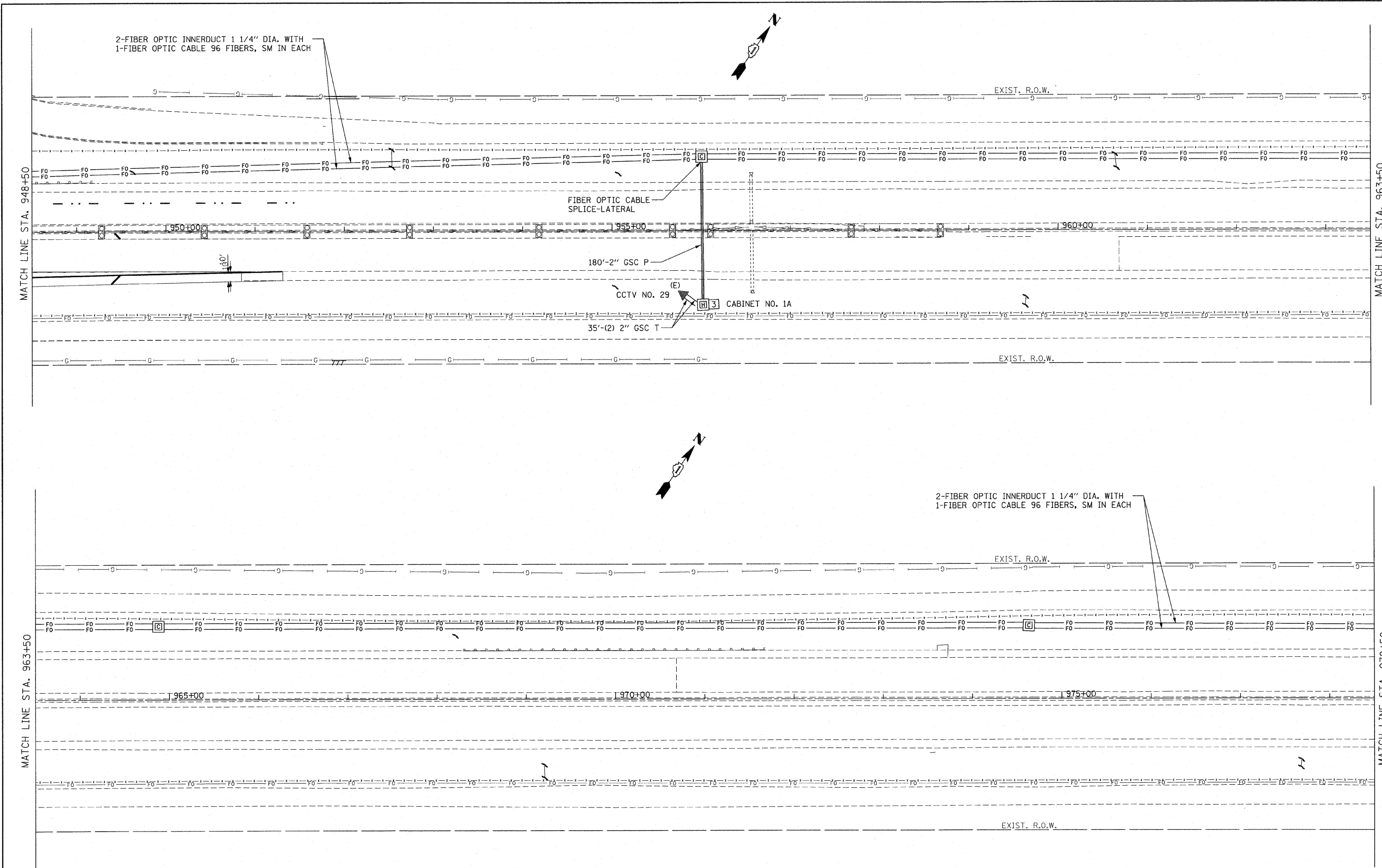
DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 NORTH WEBER ROAD**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 39 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | |



FILE NAME = P:\NP-07-1620-11\Design\Sh1\SH1041.dgn

USER NAME = rdehhan
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

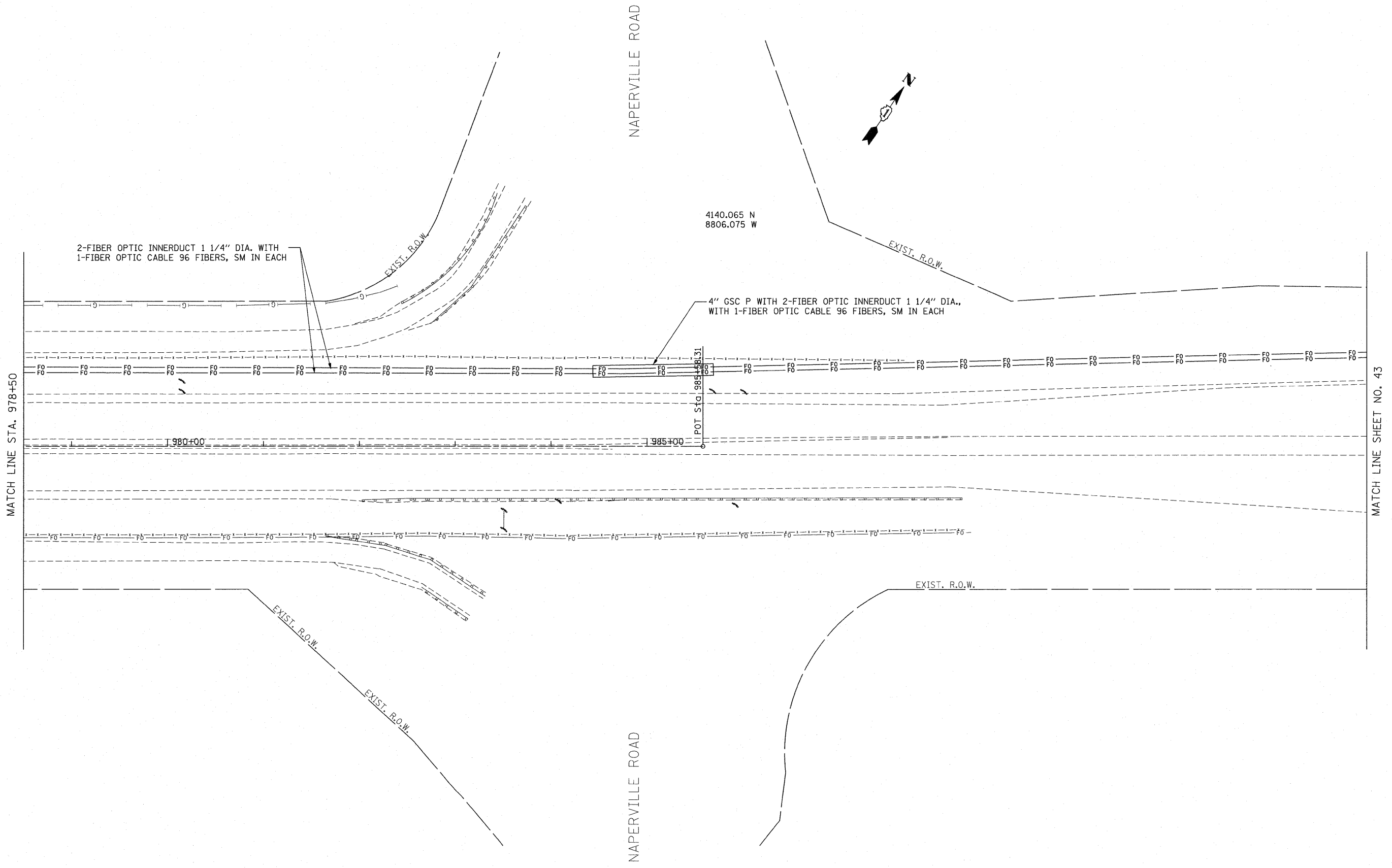
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 CCTV NO. 29**

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 41 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |

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



MATCH LINE STA. 978+50

MATCH LINE SHEET NO. 43

FILE NAME = P:\P-07-1600-11\Design\Shd\SHD242.dgn

USER NAME = wingram
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/20/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD)
 NAPERVILLE ROAD**

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

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-------------|--------|--------------|-----------|
| 55 | 2009-139 SG | WILL | 74 | 42 |
| CONTRACT NO. 60K06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

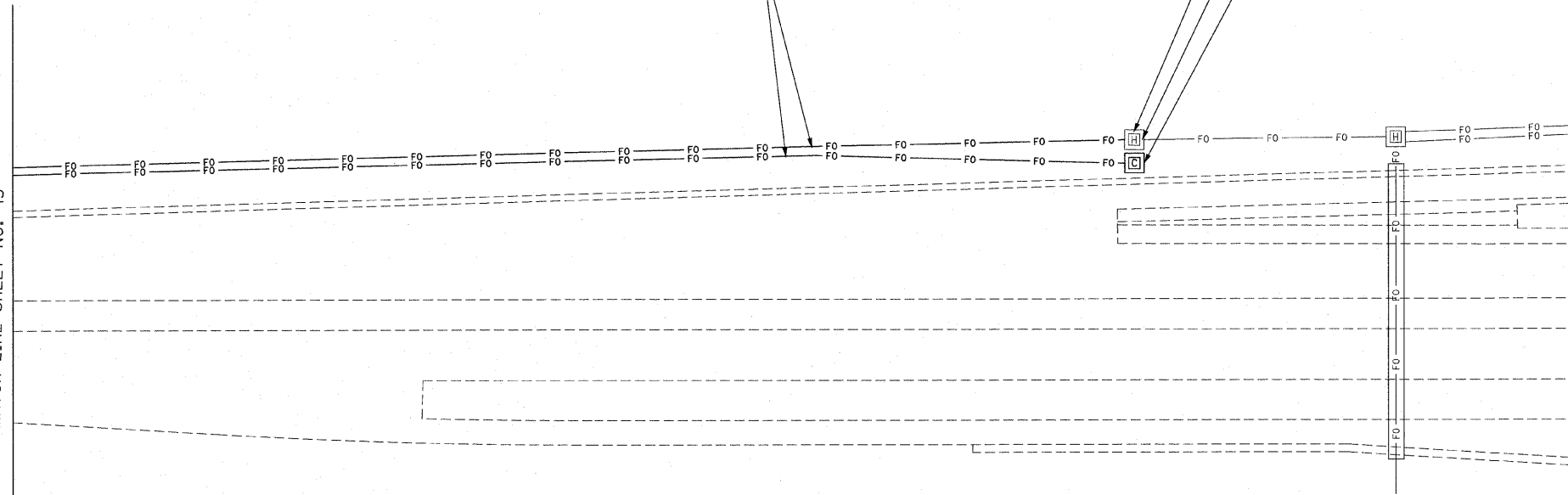
MATCH LINE SHEET NO. 43

2-FIBER OPTIC INNERDUCT 1 1/4" DIA. WITH
1-FIBER OPTIC CABLE 96 FIBERS, SM IN EACH

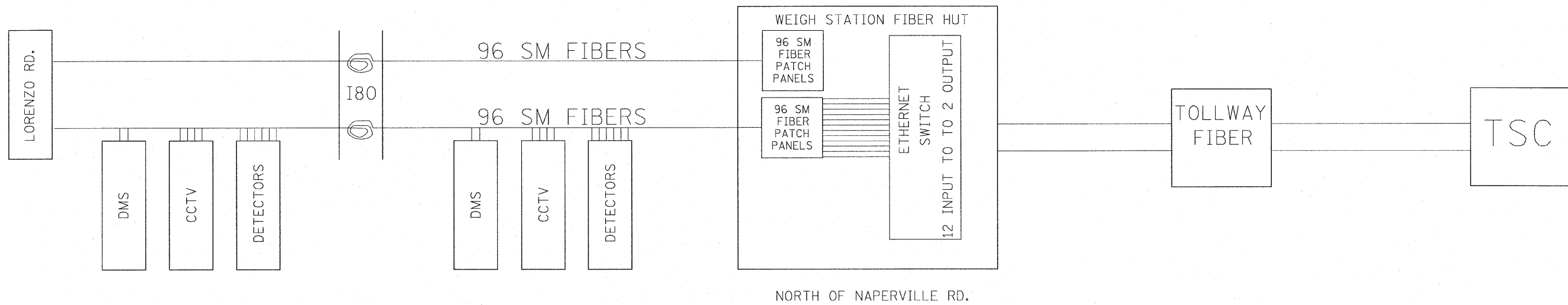
FIBER OPTIC CABLE SPLICE, MAINLINE,
IN EXISTING COMMUNICATION VAULT

FROM 60E01 APPROX. STA. 382+00

FIBER OPTIC CABLE SPLICE, MAINLINE, IN
PROPOSED COMMUNICATION VAULT. COIL
100 FT. OF SLACK IN PROPOSED VAULT.
SPLICE TO CABLE FROM UPSTREAM EXISTING
FIBER OPTIC COMMUNICATION SHELTER.



| | | | | | | | | | | | |
|---|------------------------|------------|-----------|---|---|--------------------|-------------|--------|-----------------|--------------|---------|
| FILE NAME = P:\NP-07-1600-11\Design\Sh1\SH1043.dgn | USER NAME = rdshhan | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) N OF NAPERVILLE ROAD | F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE = \$SCALE\$ | DRAWN - | REVISED - | | | 55 | 2009-139 SG | WILL | 74 | 43 | |
| | PLOT DATE = 3/18/2010 | CHECKED - | REVISED - | | | CONTRACT NO. 60K06 | | | | | |
| | | DATE - | REVISED - | | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. |



FILE NAME = C:\d1060\1\1551SCTYP.DGN
 P:\NP-07-1600-11\Gen\180\NAPERVITYP.dgn

USER NAME = rdahhan
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2010

DESIGNED - J.G.
 DRAWN - G.M.
 CHECKED - J.G.
 DATE - 01/19/2010

REVISED - 01/27/2010
 REVISED - 03/05/2010
 REVISED -
 REVISED -

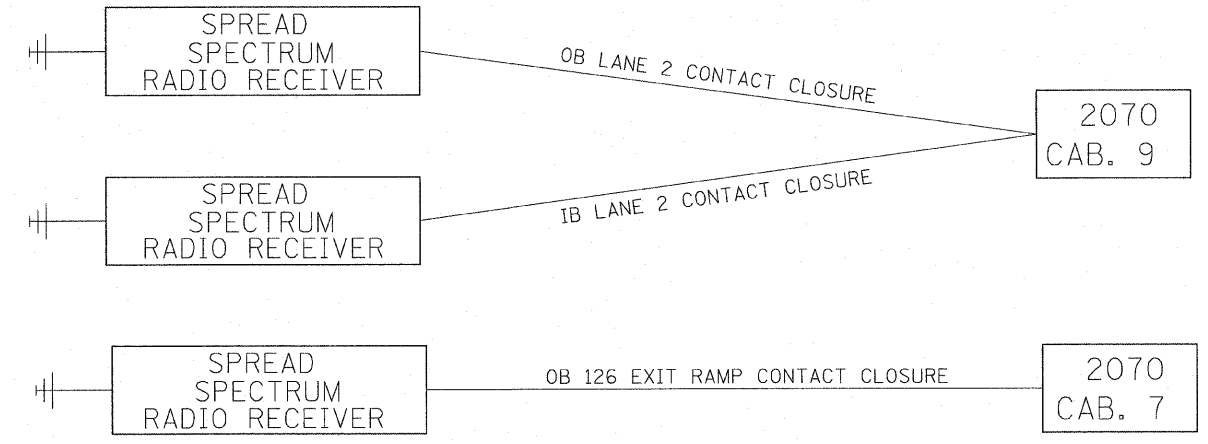
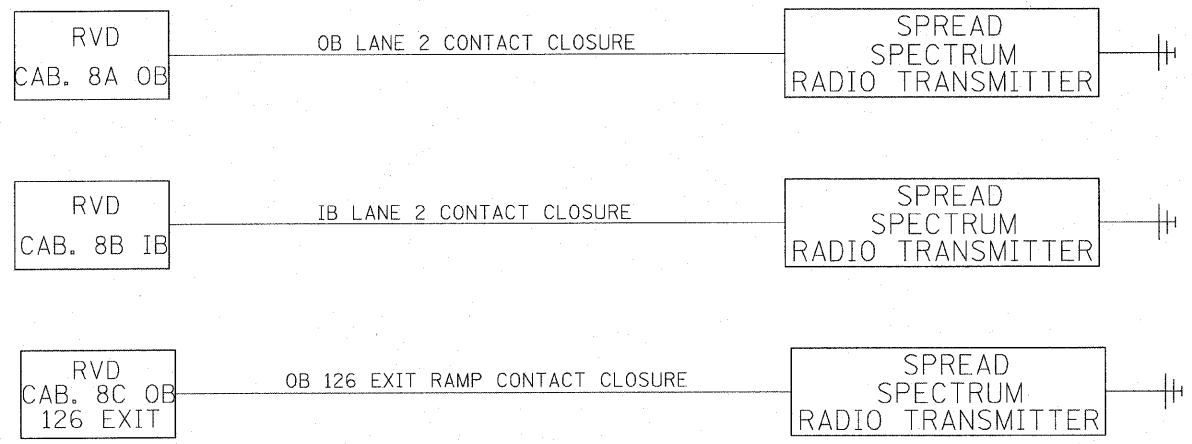
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

FIBER ROUTE

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

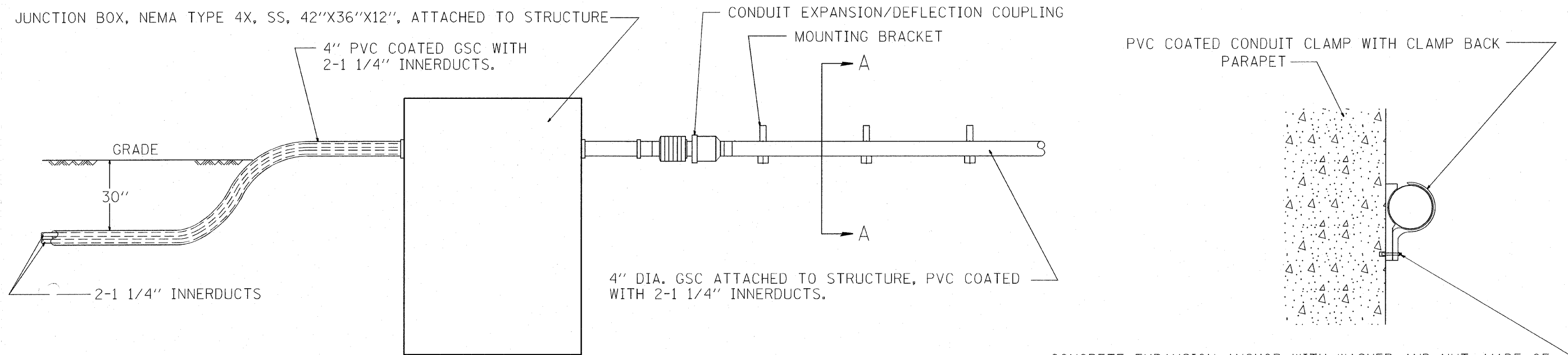
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| | | | 74 | 44 |
| CONTRACT NO. | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#45)



| | | | | | | | | | | | |
|--------------------------------------|---------------------|-----------------|----------------------|---|---|--------------|---------------------|--------------|---------------------|---------------------------|--|
| FILE NAME = C:\d\06010\155TCTYP.DGN | USER NAME = rdahhan | DESIGNED - J.G. | REVISED - 03/05/2010 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | I-80 TO NAPERVILLE RD. SPSSRVDS LAYOUT (ROAD SIDE) | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| PA\P-07-1600-11\Gen\160NAPERVTYP.dgn | DRAWN - G.M. | CHECKED - J.G. | REVISED - | | | | | | 74 | 45 | |
| PLOT SCALE = #SCALE# | DATE - 01/19/2010 | REVISED - | | | | CONTRACT NO. | | | | | |
| PLOT DATE = 3/18/2010 | DATE - 01/19/2010 | REVISED - | | | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | |

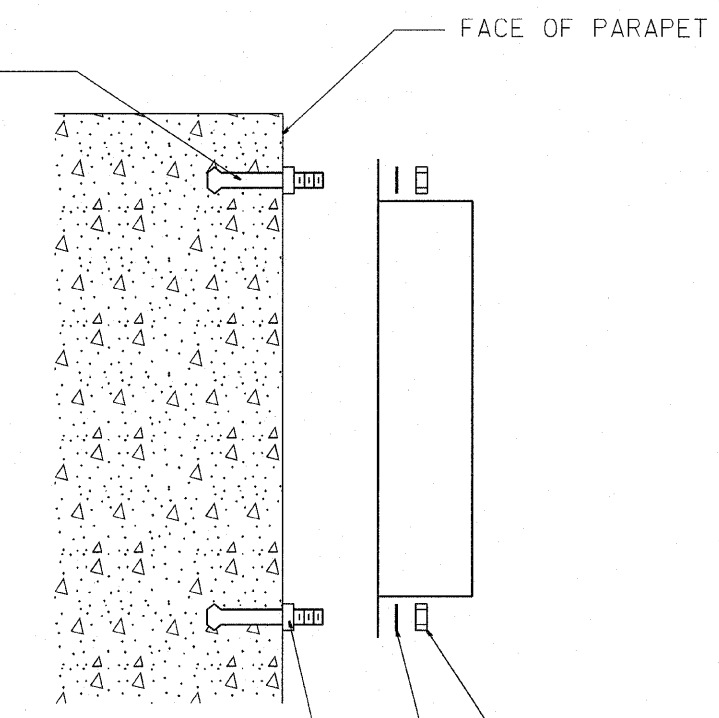
TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#47)



CONCRETE EXPANSION ANCHOR WITH WASHER AND NUT, MADE OF TYPE 304 OR 316 STAINLESS STEEL AND CONFORMING TO ASTM A276, ASTM A493, ASTM F594, AND ASTM A240.

SECTION A-A

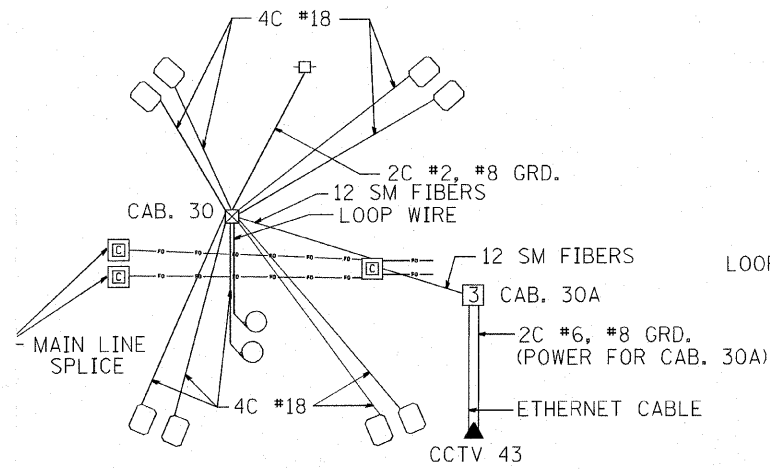
CONCRETE EXPANSION ANCHOR MADE OF TYPE 304 OR 316 STAINLESS STEEL AND CONFORMING TO ASTM A276 OR ASTM A493.



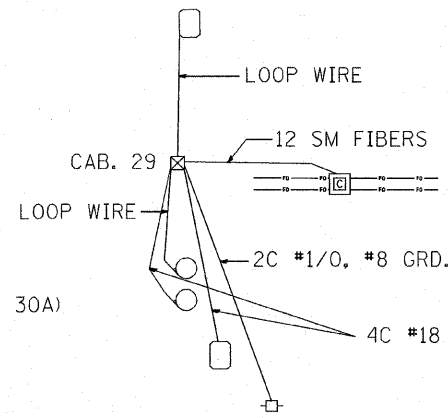
SPRING TYPE WASHER MADE OF TYPE 304 OR 316 STAINLESS STEEL AND CONFORMING TO ASTM A240

NUTS MADE OF TYPE 304 OR 316 STAINLESS STEEL AND CONFORMING TO ASTM F594

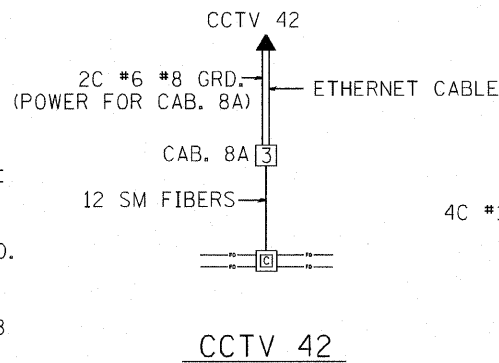
| | | | | | | | | | | | |
|---|-----------------------------|-----------------|-----------|---|--|---------------------|----------------|--------------------|-------------|---------------------------|--------------|
| E NAME = CALDPENZ0180-3-17-2010\SUB155TCTYP.dgn LORENZO180-3-17-2010\SUB155TCTYP.dgn | USER NAME = mezag | DESIGNED - J.G. | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE RD.) | | F.A.I. RTE. 55 | SECTION 2009-1395G | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 46 |
| | PLOT SCALE = 95,4545' / IN. | CHECKED - J.G. | REVISED - | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. 60K06 | | ILLINOIS FED. AID PROJECT | |
| PLOT DATE = 4/20/2010 | DATE - 04/19/2010 | REVISED - | REVISED - | | | | | | | | |



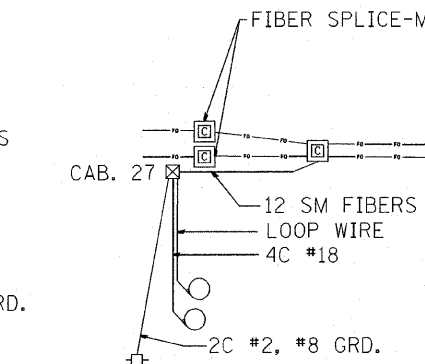
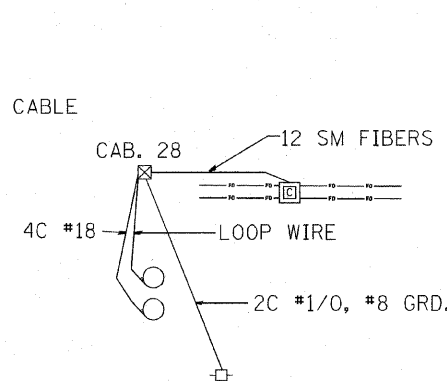
I80 NORTH



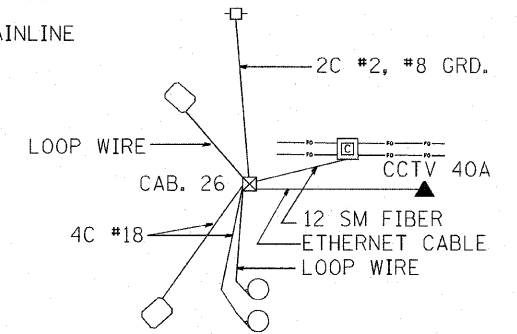
SOUTH OF IL59



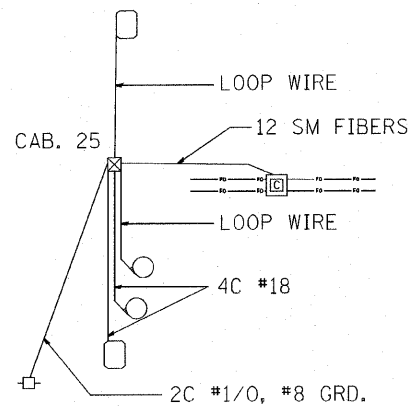
SOUTH OF IL59
1 MI. SOUTH OF US 52



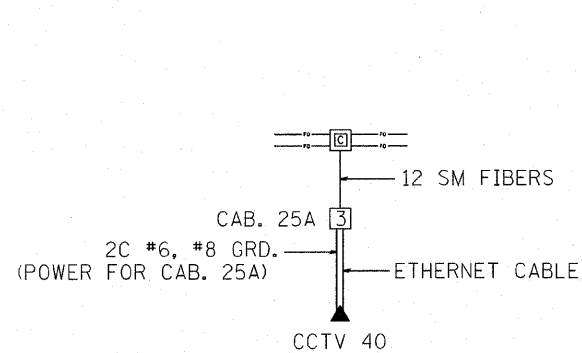
1/2 MI. SOUTH OF US 52



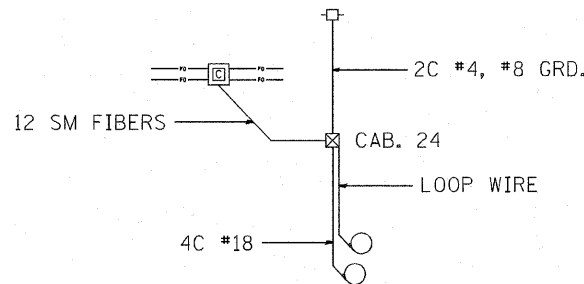
SOUTH US52



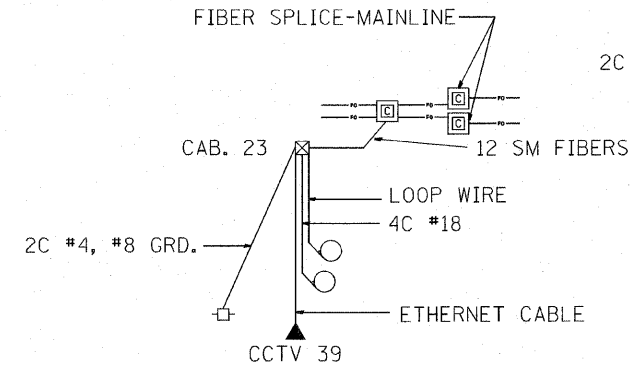
NORTH US52



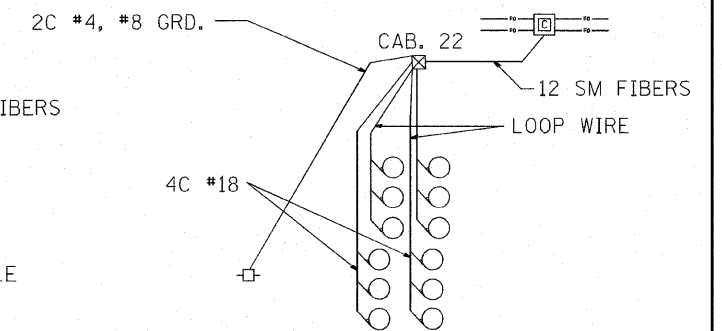
CCTV 40
1/2 MI. NORTH OF US52



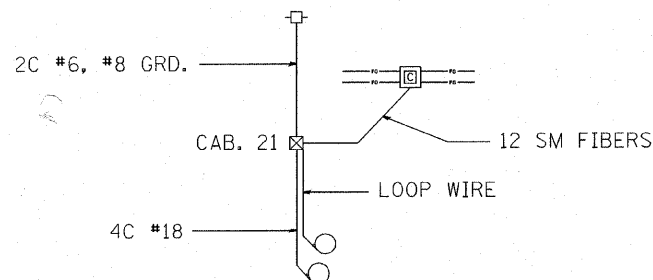
1/2 MI. NORTH OF US52



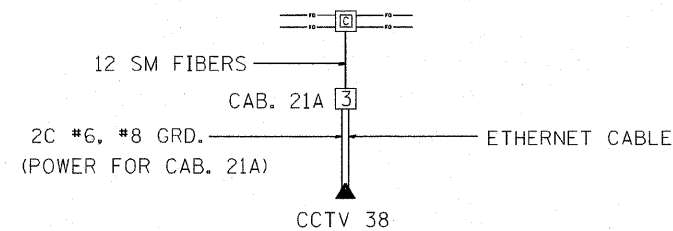
CCTV 39
BLACK RD.



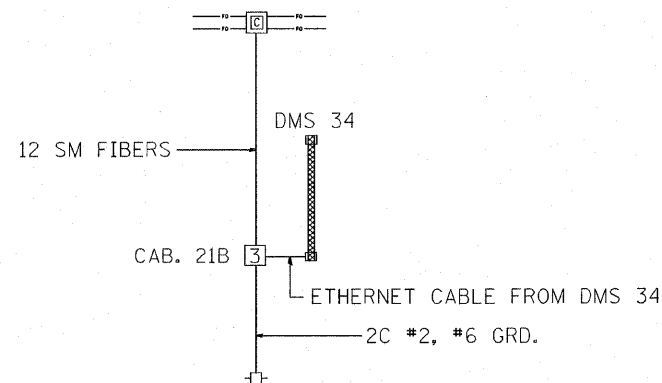
1/2 MI. NORTH OF BLACK RD.



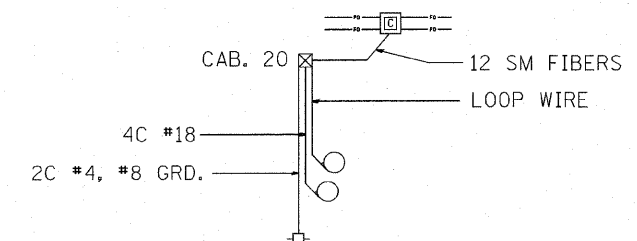
1 MI. NORTH OF BLACK RD.



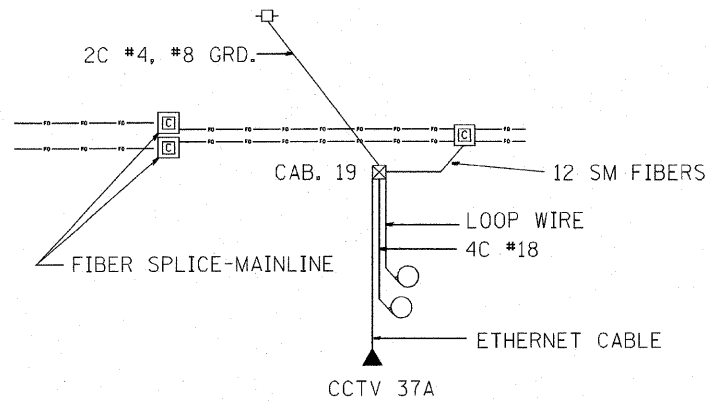
CCTV 38
1 MI. SOUTH OF CATON FARM RD.



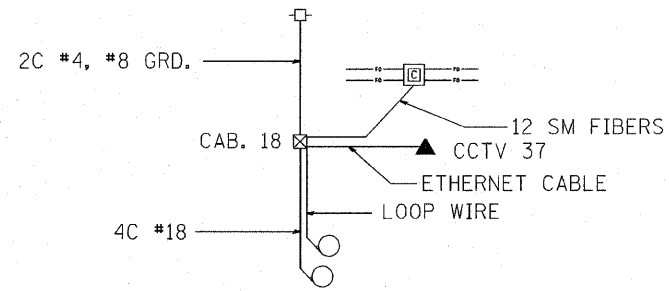
DMS 34



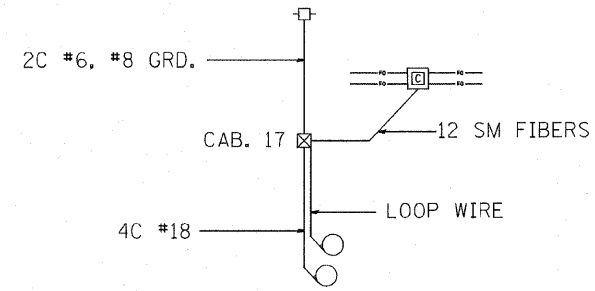
1/2 MI. SOUTH OF CATON FARM RD.



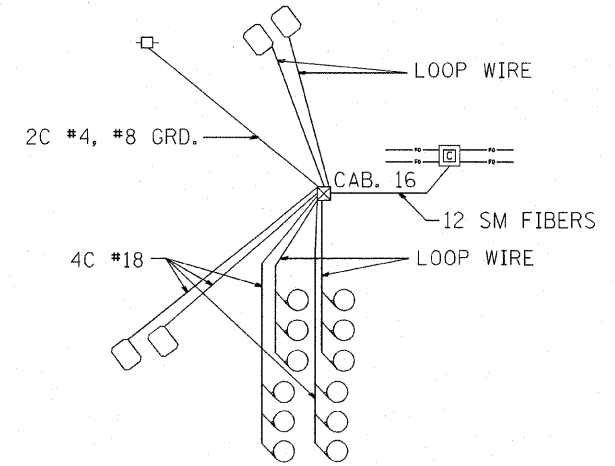
CATON FARM RD.



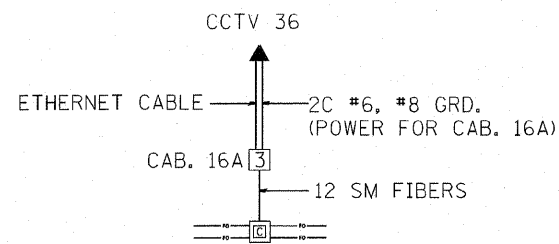
1/2 MI. NORTH OF CATON FARM RD.



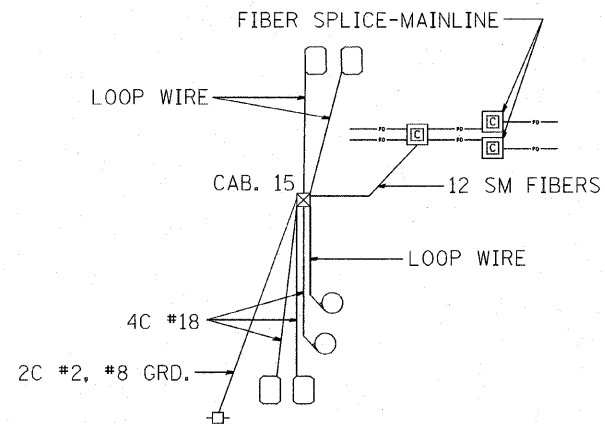
1/2 MI. SOUTH OF RTE. 30



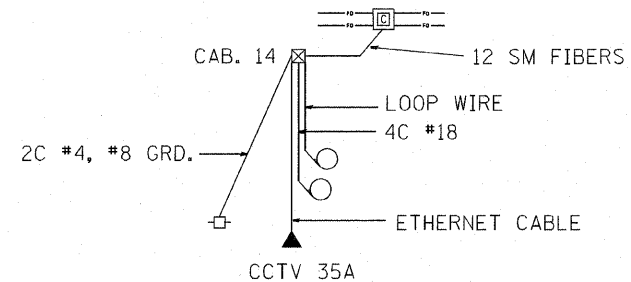
SOUTH US RTE. 30



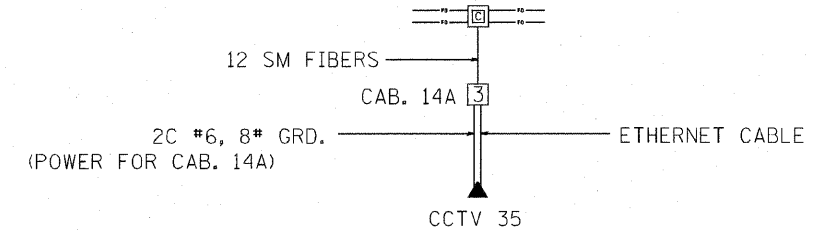
CCTV 36, NORTH US RTE. 30



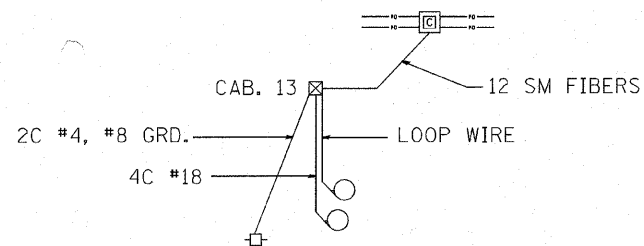
NORTH US RTE. 30



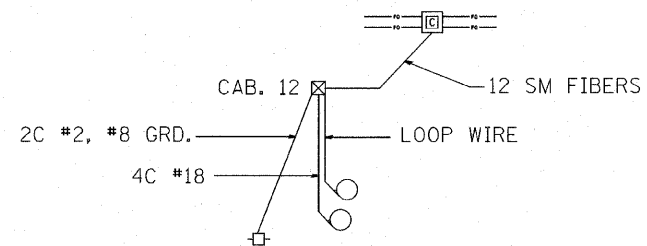
1/2 MI. NORTH OF US RTE. 30



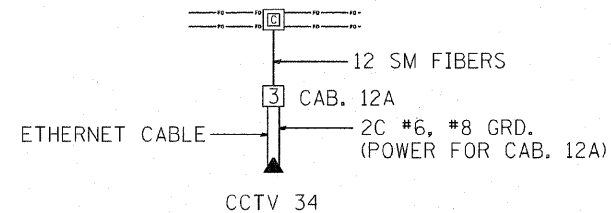
1 MI. NORTH OF US RTE. 30



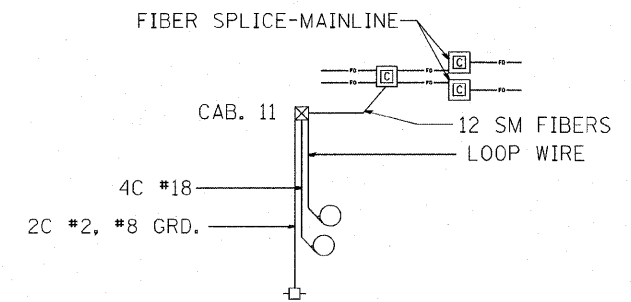
1 MI. NORTH OF US RTE. 30



SOUTH OF LOCKPORT RD.

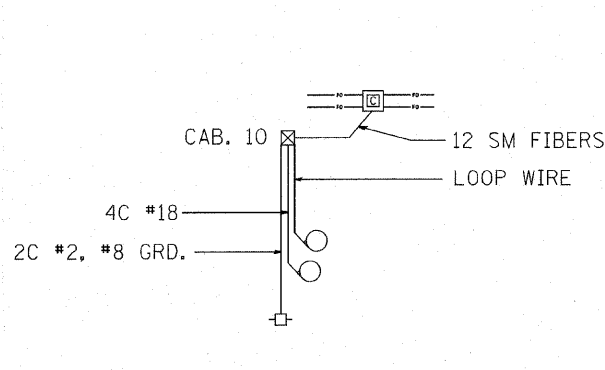


LOCKPORT RD.

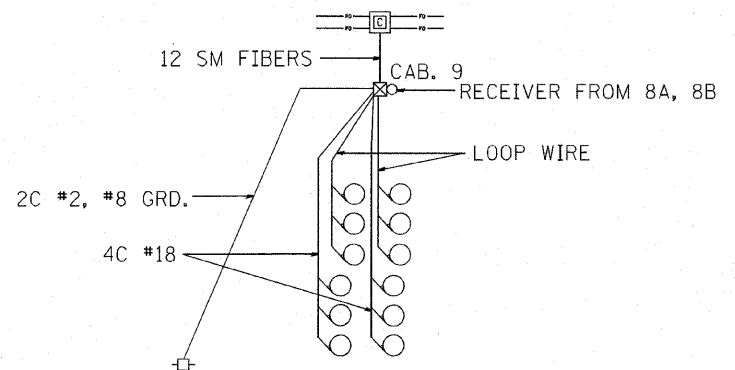


1/2 MI. NORTH OF LOCKPORT RD.

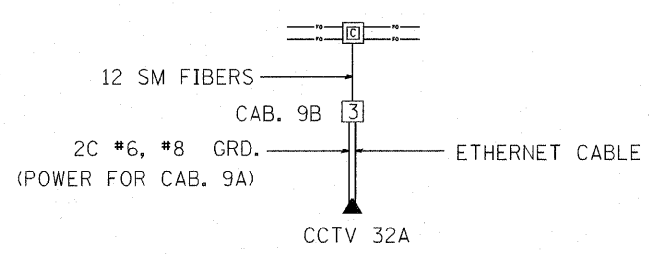
| | | | | | | | | | | | | |
|---|-------------------|-------------------|----------------------|---|--|-------------------------------|--------------------------|---------------------------|------------|--------------|-----------|----|
| FILE NAME = c:\d106010\WIREDIAGRAMS.dgn | USER NAME = mezeg | DESIGNED - JG | REVISED - 04/06/2010 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | I-55 WIRE DIAGRAMS I80-NAPERVILLE RD. | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\d106010\WIREDIAGRAMS.dgn | | DRAWN - GM | REVISED - 04/08/2010 | | SCALE: _____ | SHEET NO. ____ OF ____ SHEETS | STA. _____ TO STA. _____ | 55 | 2009-139SG | WILL | 74 | 48 |
| | | CHECKED - JG | REVISED - | | | | | CONTRACT 60K06 | | | | |
| | | DATE - 03/15/2010 | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |



1 MI. NORTH OF LOCK PORT RD.



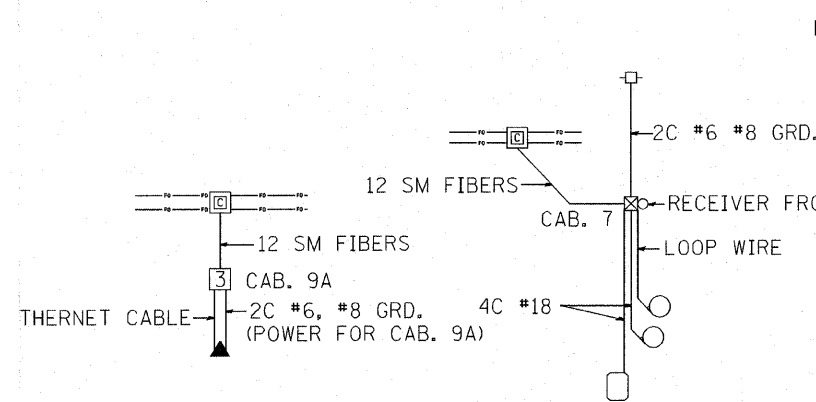
1/2 MI. SOUTH OF IL 126



CCTV 32A SOUTH OF IL 126

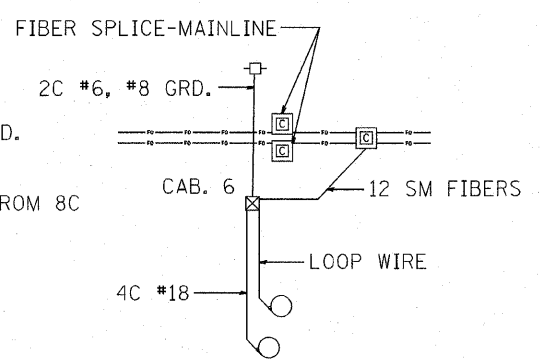
- 8A (OB LANE 2) TRANSMITTER TO CAB. 9
- 8B (IB LANE 2) TRANSMITTER TO CAB. 9
- 8C (SB EXIT TO 126) TRANSMITTER TO CAB. 7

SOUTH IL 126
SPSSRVD (ROAD SIDE) 8A, 8B, 8C

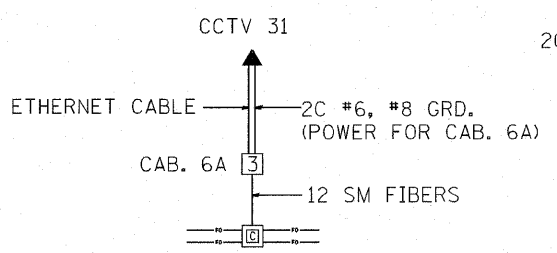


CCTV 32

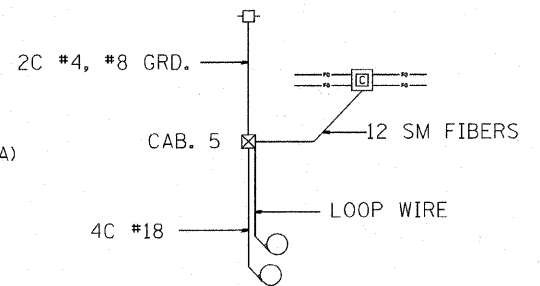
NORTH IL126



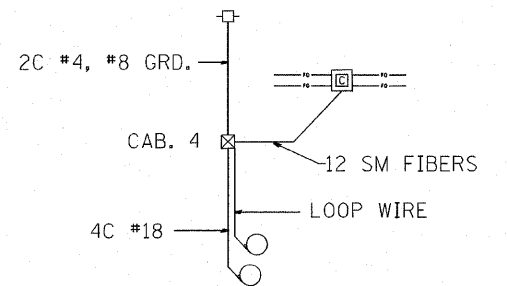
1/2 MI. NORTH OF RTE. 126



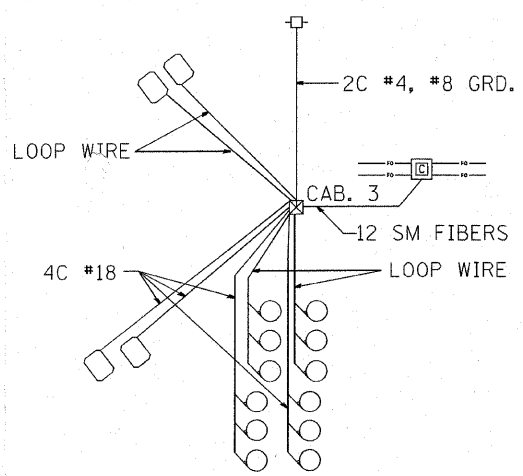
CCTV 31, 1 MI. SOUTH OF WEBER



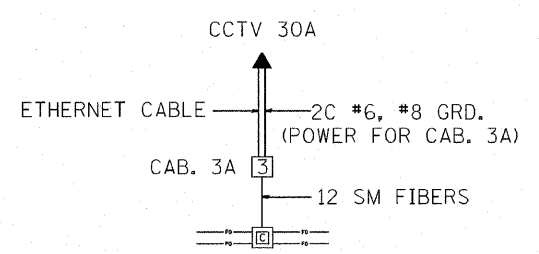
1 MI. SOUTH OF WEBER



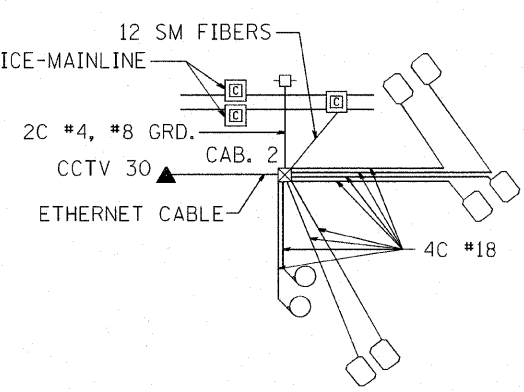
1/2 MI. SOUTH OF WEBER RD.



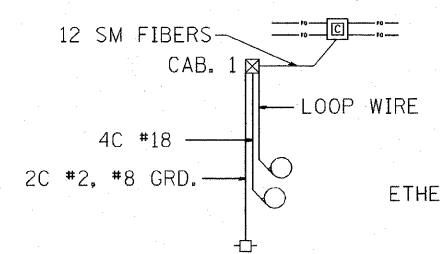
SOUTH OF WEBER RD.



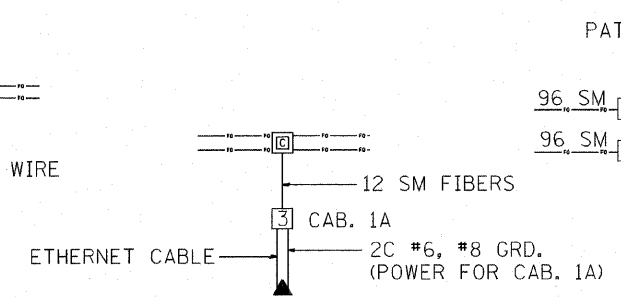
CCTV 30A, SOUTH WEBER RD.



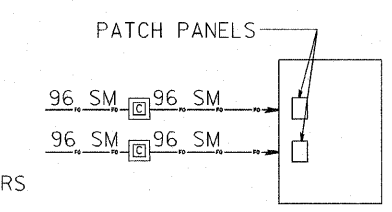
CCTV 30, NORTH WEBER RD.



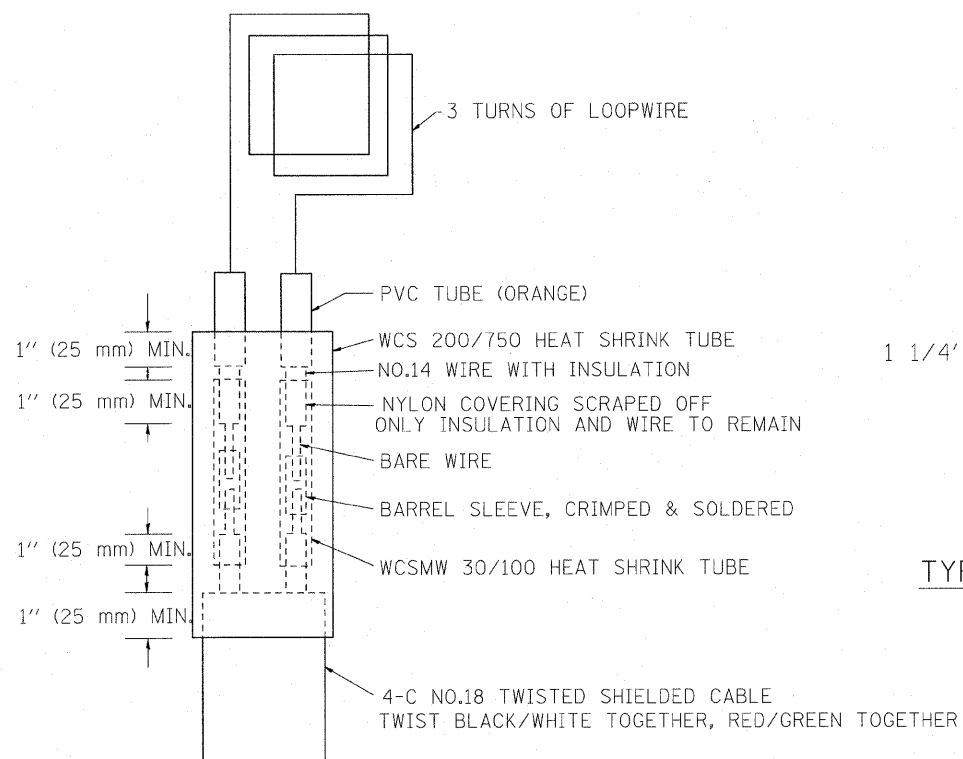
1/2 MI. NORTH OF WEBER RD.



CCTV 29



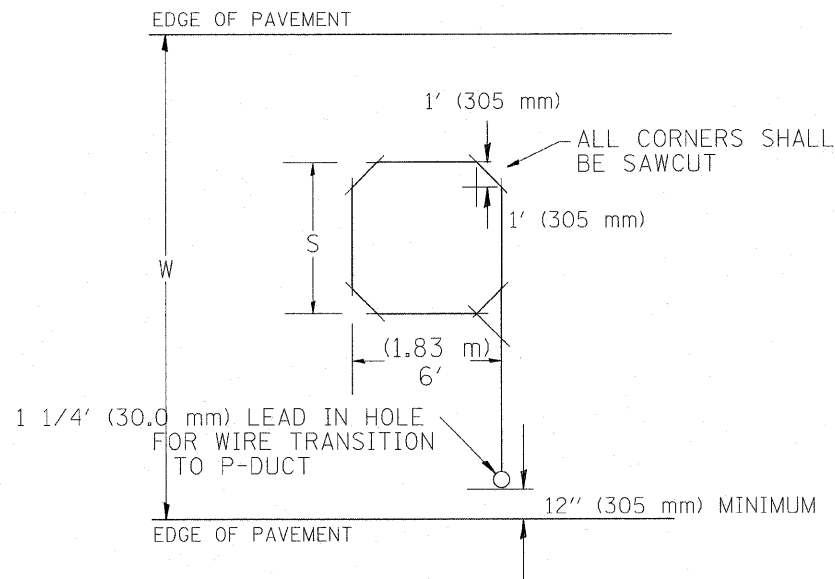
WEIGH STATION
COMMUNICATION SHELTER



MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

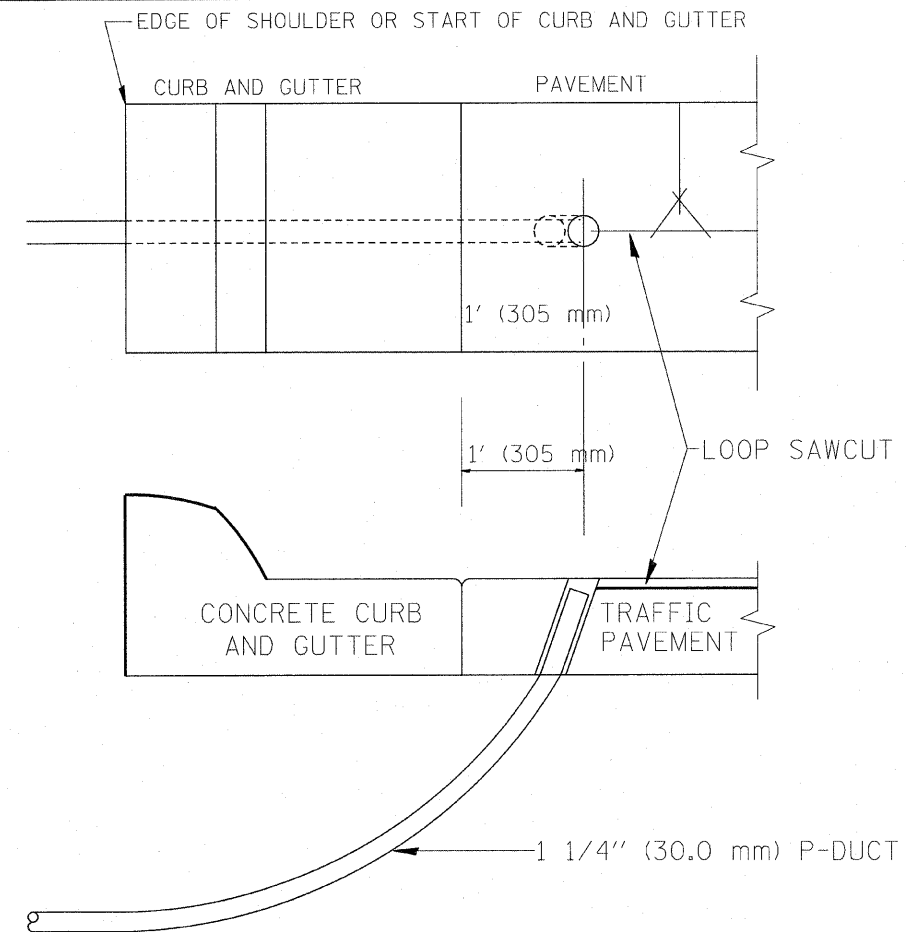
| TABLE 1 | |
|-------------|-------------|
| WIDTH (W) | WIDTH (S) |
| 12' (3.7 m) | 8' (2.5 m) |
| 13' (4.0 m) | 9' (2.8 m) |
| 14' (4.3 m) | 10' (3.1 m) |
| 15' (4.6 m) | 11' (3.4 m) |
| 16' (4.9 m) | 12' (3.7 m) |
| 17' (5.2 m) | 13' (4.0 m) |
| 18' (5.5 m) | 14' (4.3 m) |
| 19' (5.8 m) | 15' (4.6 m) |
| 20' (6.1 m) | 18' (4.9 m) |
| 21' (6.4 m) | 17' (5.2 m) |
| 22' (6.7 m) | 18' (5.5 m) |
| 23' (7.0 m) | 19' (5.8 m) |
| 24' (7.3 m) | 20' (6.1 m) |
| 25' (7.6 m) | 21' (6.4 m) |



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS

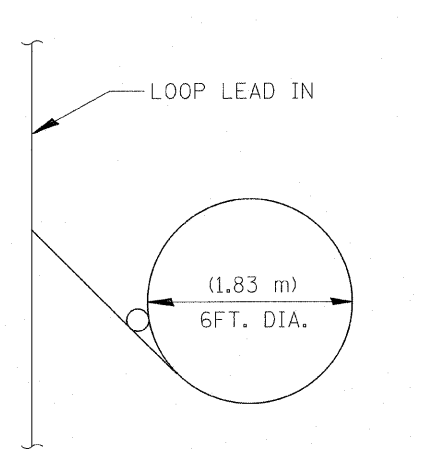
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

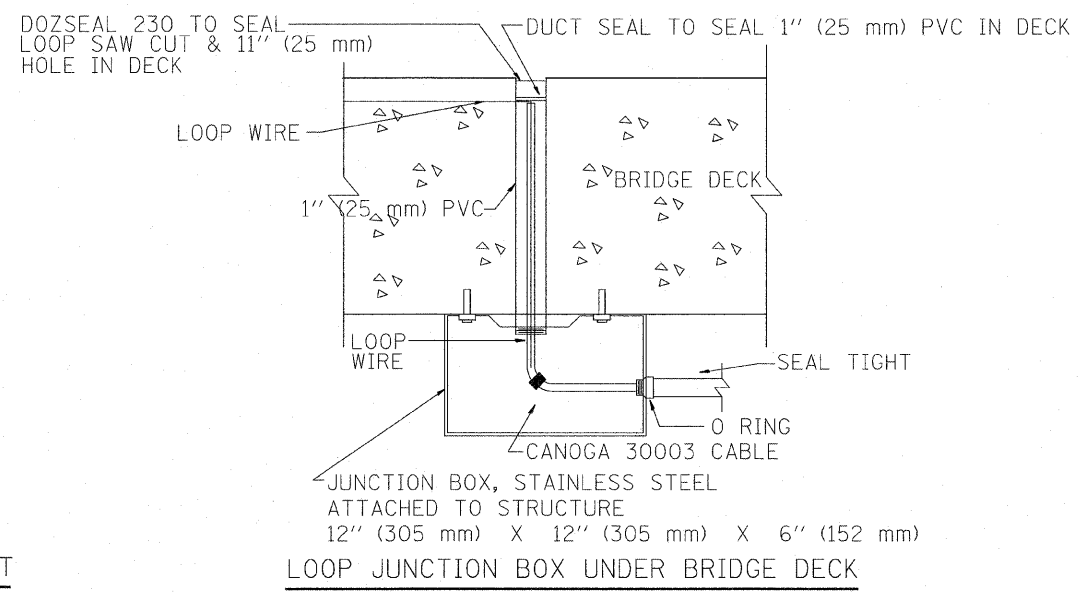


CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

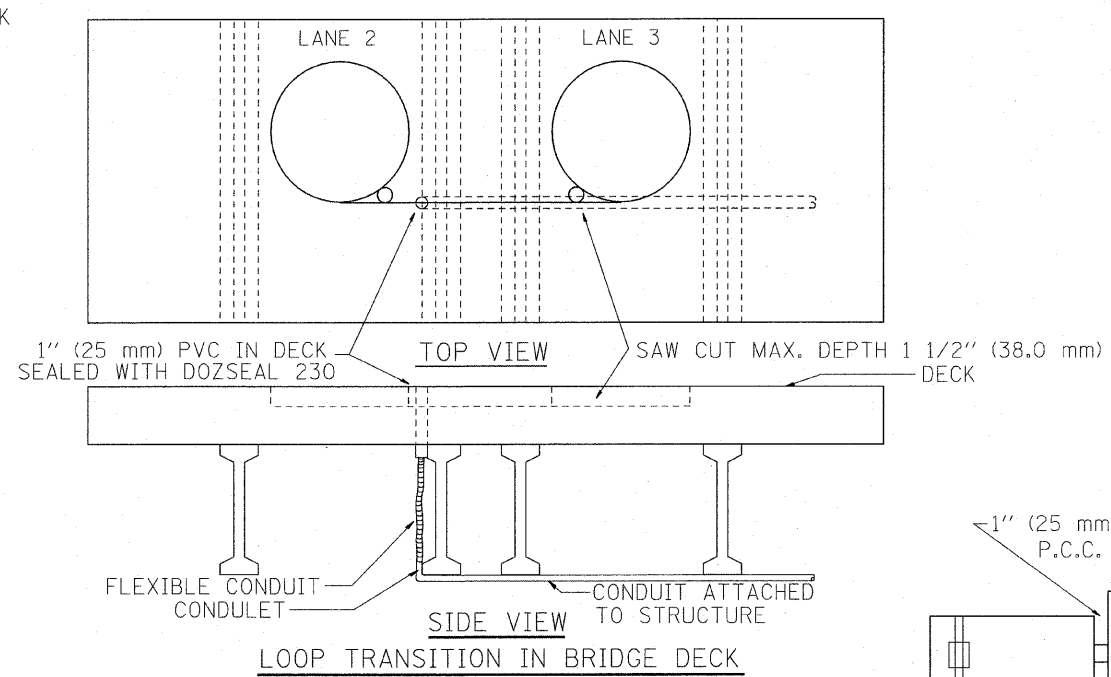
| | | | | | | | | | | | | |
|---|---------------------|-----------------|-----------------|--|--|--|---------------------------|--------------|---------|--------|--------------|-----------|
| FILE NAME = P:\P-07-1620-11\Gen\1620NAPERVTYP.dgn | USER NAME = rdahhan | DESIGNED - R.L. | REVISED - 6/94 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | RECTANGULAR INDUCTION LOOP TYPICAL | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - G.M. | REVISED - 11/95 | | | | | | | | 74 | 50 |
| | | CHECKED - R.L. | REVISED - 05/96 | | SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. | | | CONTRACT NO. | | | | |
| | | DATE - 6-22-94 | REVISED - 10/96 | | TRAFFIC SYSTEMS CENTER (TY-1TSC-418#3) | | ILLINOIS FED. AID PROJECT | | | | | |



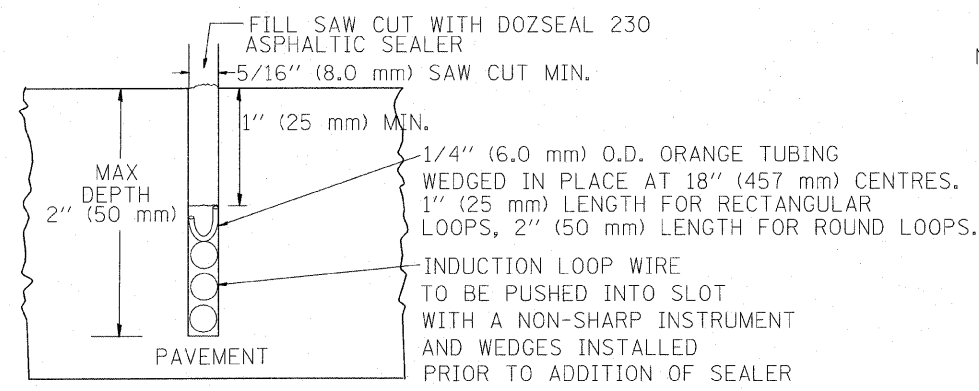
TYPICAL LOOP SAWCUT LAYOUT



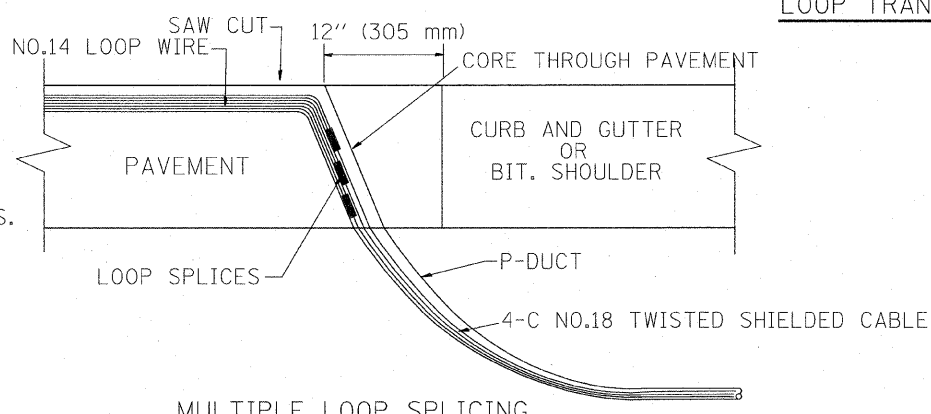
LOOP JUNCTION BOX UNDER BRIDGE DECK



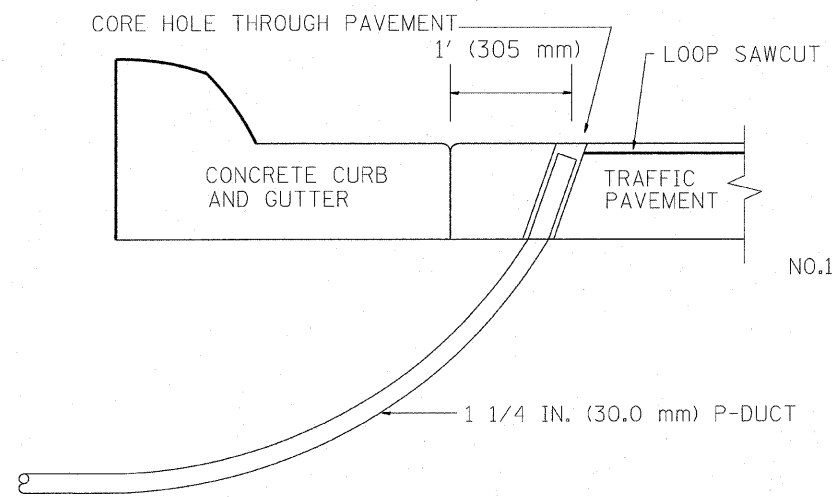
LOOP TRANSITION IN BRIDGE DECK



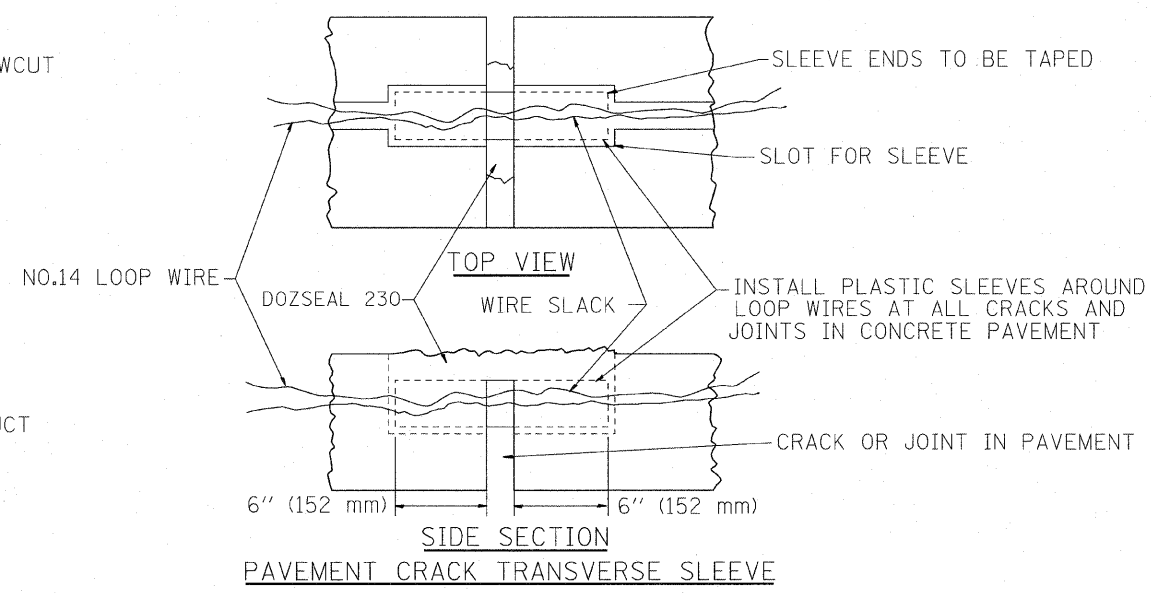
LOOP CROSS SECTION IN PAVEMENT



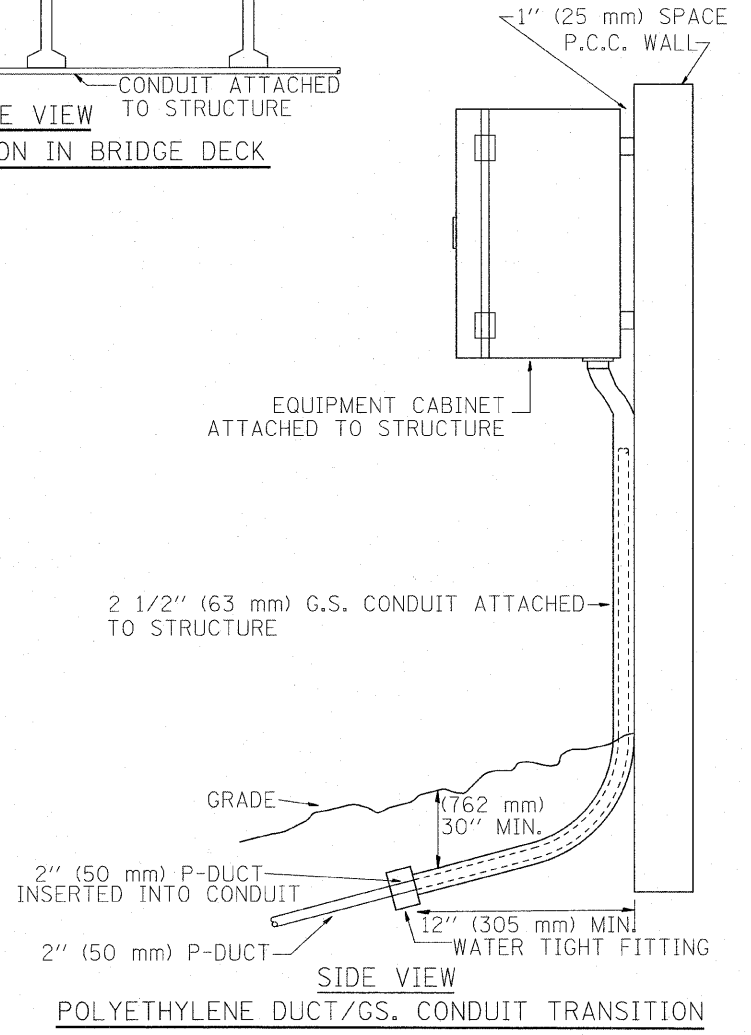
MULTIPLE LOOP SPLICING



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL

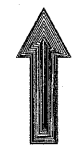
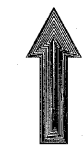


PAVEMENT CRACK TRANSVERSE SLEEVE



POLYETHYLENE DUCT/GS. CONDUIT TRANSITION

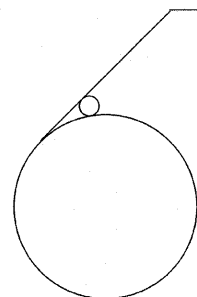
| | | | | | | | | | | | | | |
|--|--------------------|-----------------|-----------------|--|--|-----------|----|-----------|---------|---------|--|-----------|---------------------------|
| FILE NAME = P:\P-87-1688-11\Gen\180NAPERVTYP.dgn | USER NAME = rdahen | DESIGNED - R.L. | REVISED - 06/94 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | LOOP, CONDUIT & DUCT INSTALLATION DETAILS | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | | DRAWN - G.M. | REVISED - 03/95 | | SCALE: NONE | SHEET NO. | OF | SHEETS | STA. | TO STA. | | 74 | 51 |
| | | CHECKED - R.L. | REVISED - 11/95 | | | | | | | | CONTRACT NO. | | |
| | | DATE - 06/22/94 | REVISED - 10/96 | | | | | | | | FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT |
| | | | | | | | | | | | TRAFFIC SYSTEMS CENTER (TY-1TSC-418#4) | | |



LANE 1

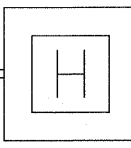
LANE 2

LANE 3

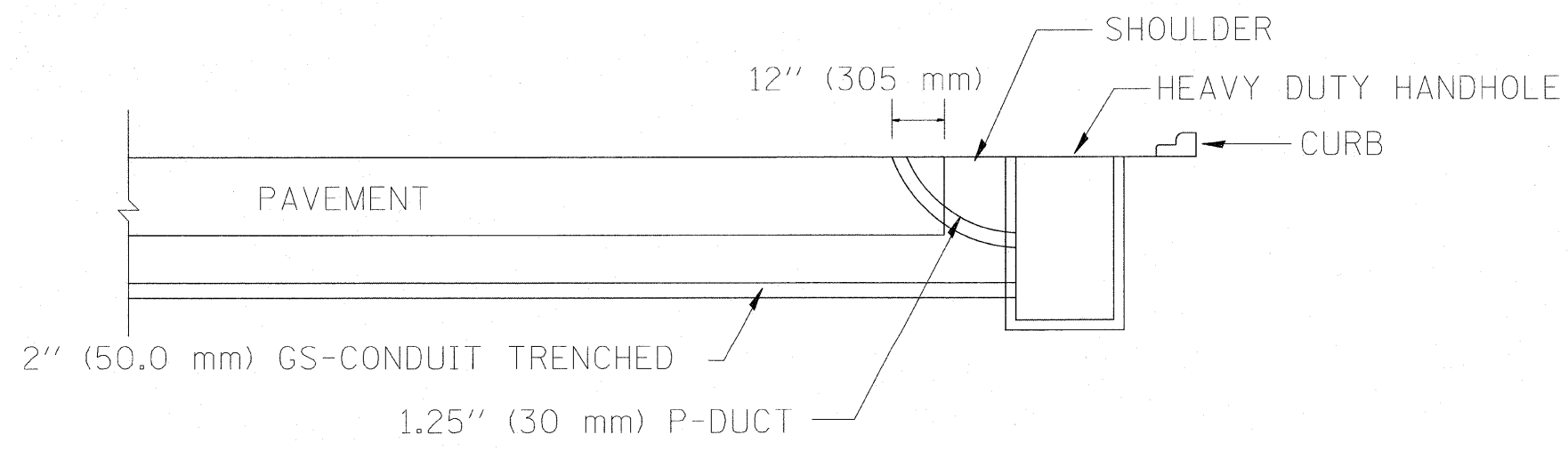


CORE HOLE 12" (305 mm) MIN.

1.25" (30 mm) P-DUCT



SHOULDER



2" (50.0 mm) GS-CONDUIT TRENCHED

1.25" (30 mm) P-DUCT

12" (305 mm)

SHOULDER

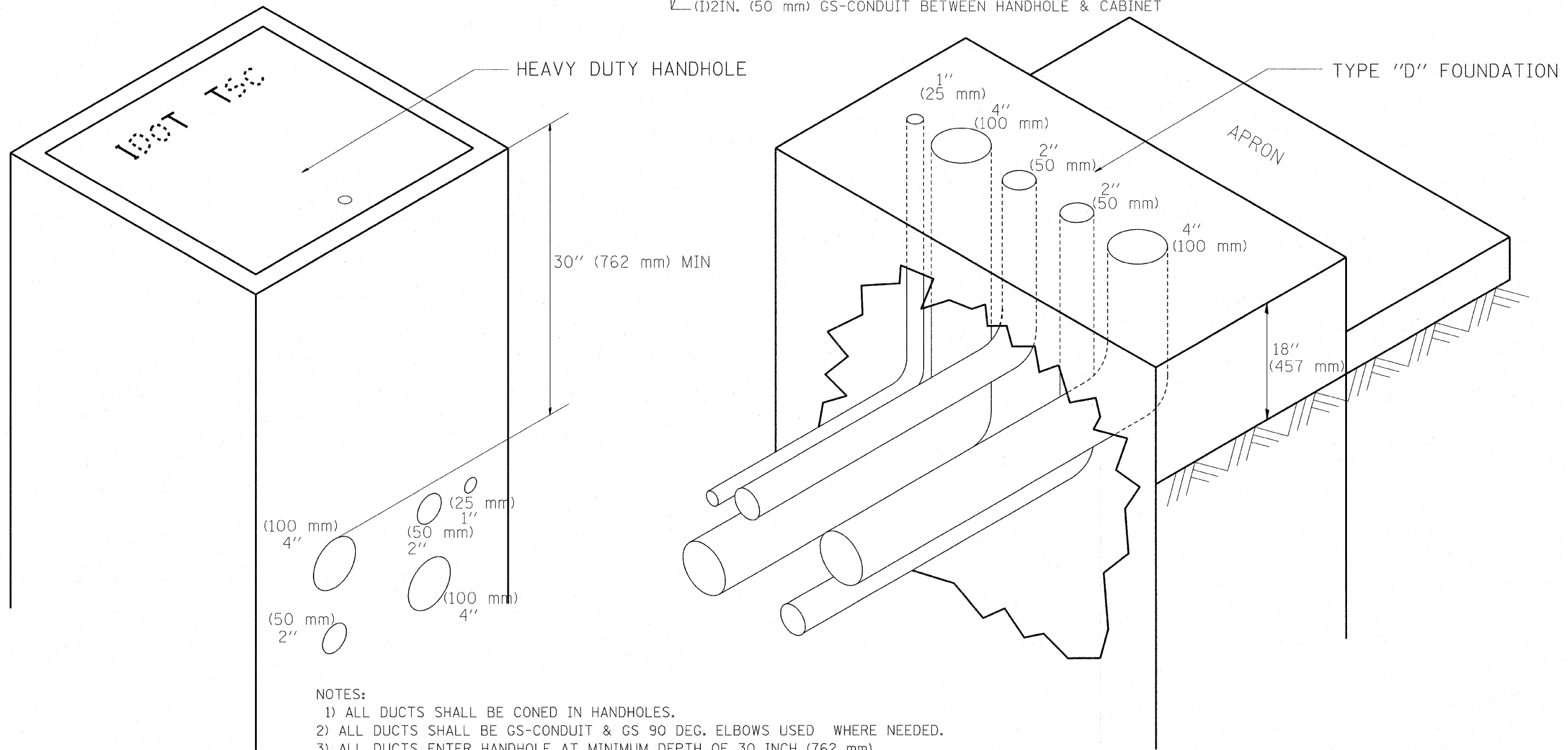
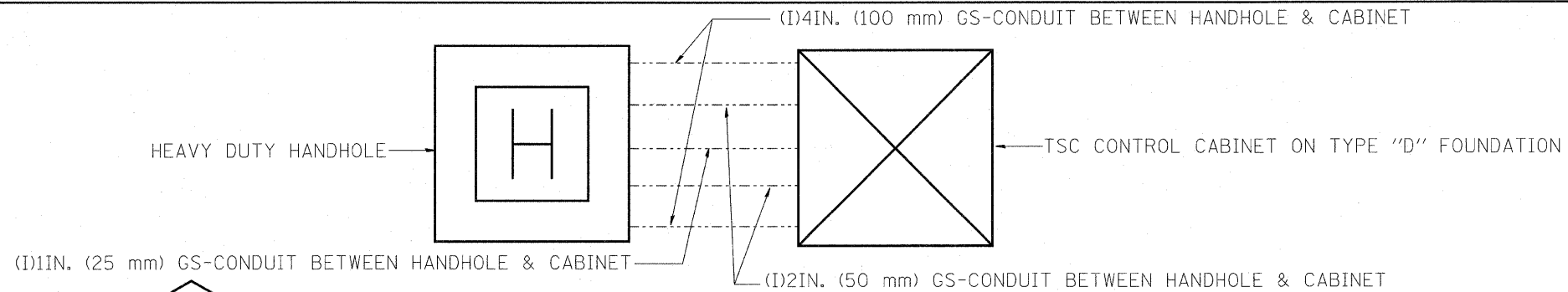
HEAVY DUTY HANDHOLE

CURB

PAVEMENT

| | | | | | | | | | | | |
|--|---------------------|-----------------|------------------|---|-----------------------|---------------------|--------------|---|--------|--------------|-----------|
| FILE NAME = P:\P-07-1600-11\Gen\10\NAFERVYP.dgn | USER NAME = rdahhan | DESIGNED - R.L. | REVISIONS - R.L. | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | DIVE HOLE DUCT SYSTEM | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - G.M. | REVISIONS - T.C. | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. | | 74 | 53 |
| | | CHECKED - R.L. | REVISIONS - | | | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | |
| | | DATE - 11/7/95 | REVISIONS - | | | | | | | | |

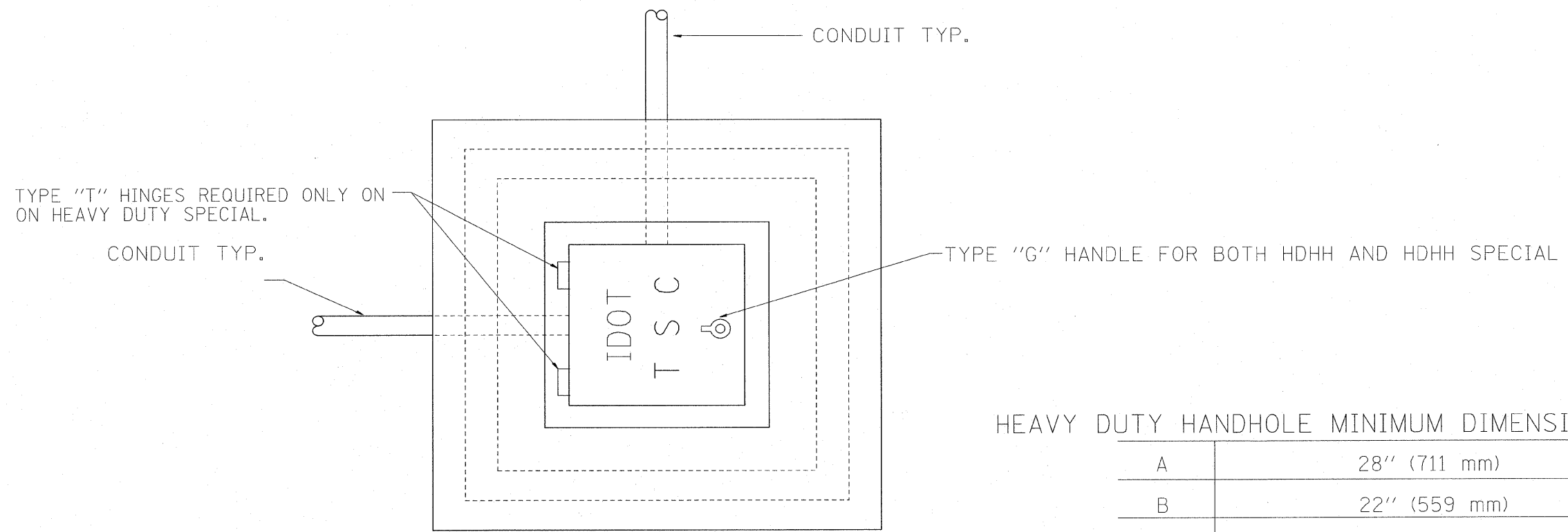
TRAFFIC SYSTEMS CENTER (TY-1TSC-418#8)



NOTES:

- 1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
- 2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
- 3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
- 4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
- 5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
- 6) DUCTS SHALL BE CENTERED IN CABINET FOUNDATION/HANDHOLE AS SHOWN.
- 7) CONDUITS SHALL BE SPACED 305 mm (1 FOOT) CENTER TO CENTER IN HEAVY DUTY HANDHOLE.
- 8) INSTALL 3/4" X 10' (20 mm X 3 m) COPPER CLAD STEEL GROUND ROD IN HDHH PROVIDED AS CABINET PAD. EXOTHERMIC WELD CONNECTION FROM GROUND ROD TO #6 GROUND WIRE INSULATED (GREEN).
- 9) BOND ALL GSC CONDUITS IN CABINET FOUNDATION.
- 10) INSTALL #6 GROUND WIRE IN 1IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
- 11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.

| | | | | | | | | | | | | |
|--|---------------------|-----------------|-----------------|---|--------------------------------------|---------------------|--------------|---------------------|---------------------------|--------------|-----------|----|
| FILE NAME = C:\J06018\155TCTYP.DGN | USER NAME = rdahten | DESIGNED - R.L. | REVISED - 09/96 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | CABINET - HANDHOLE CONDUIT DETAIL | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| P:\NP-07-1600-11\Gen\180\NAPERVTYP.dgn | | DRAWN - G.M. | REVISED - 03/99 | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. | 74 | 54 |
| | | CHECKED - R.L. | REVISED - 04/99 | | | | | | | | | |
| | | DATE - 06/05/95 | REVISED - | | | | | | | | | |

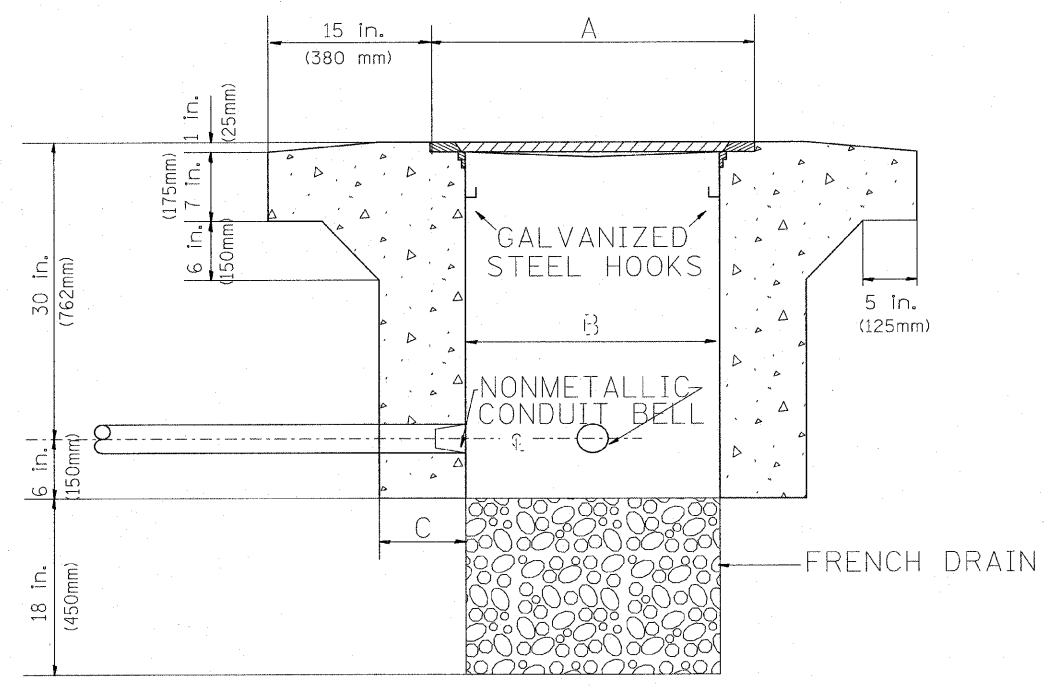


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

| | |
|---|--------------|
| A | 28" (711 mm) |
| B | 22" (559 mm) |
| C | 8" (200 mm) |

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



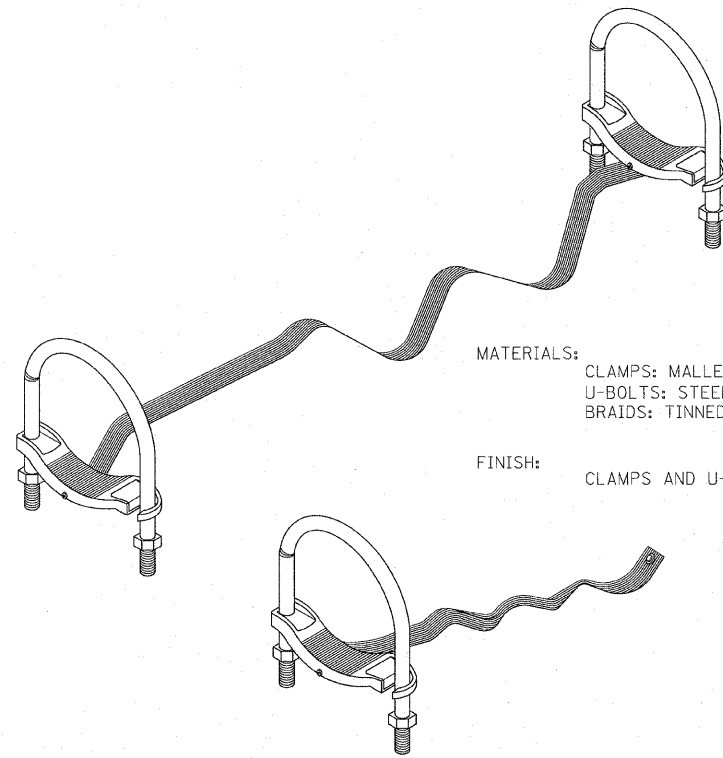
ELEVATION

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

| | |
|---|----------------|
| A | 31.5" (800 mm) |
| B | 30" (762 mm) |
| C | 10" (250 mm) |

(FRAME AND COVER 405 LBS. (184 Kg. (405))

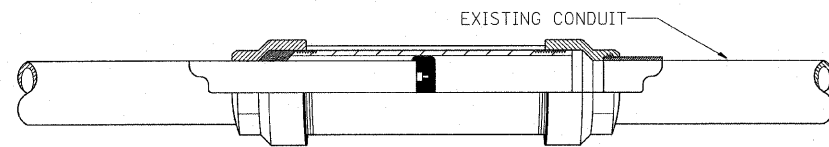
PC CONCRETE - HEAVY DUTY HAND HOLE



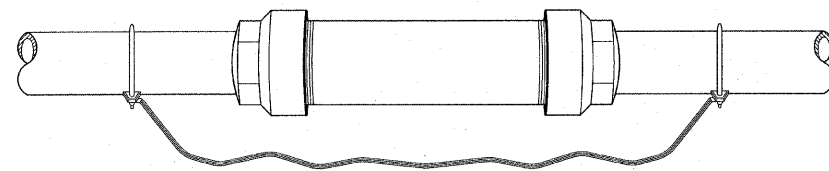
MATERIALS:
 CLAMPS: MALLEABLE OR DUCTILE IRON.
 U-BOLTS: STEEL.
 BRAIDS: TINNED COPPER.

FINISH:
 CLAMPS AND U-BOLTS ARE HOT DIP GALVANIZED.

GROUNDING & BONDING JUMPERS FOR RIGID STEEL, IMC & EMT



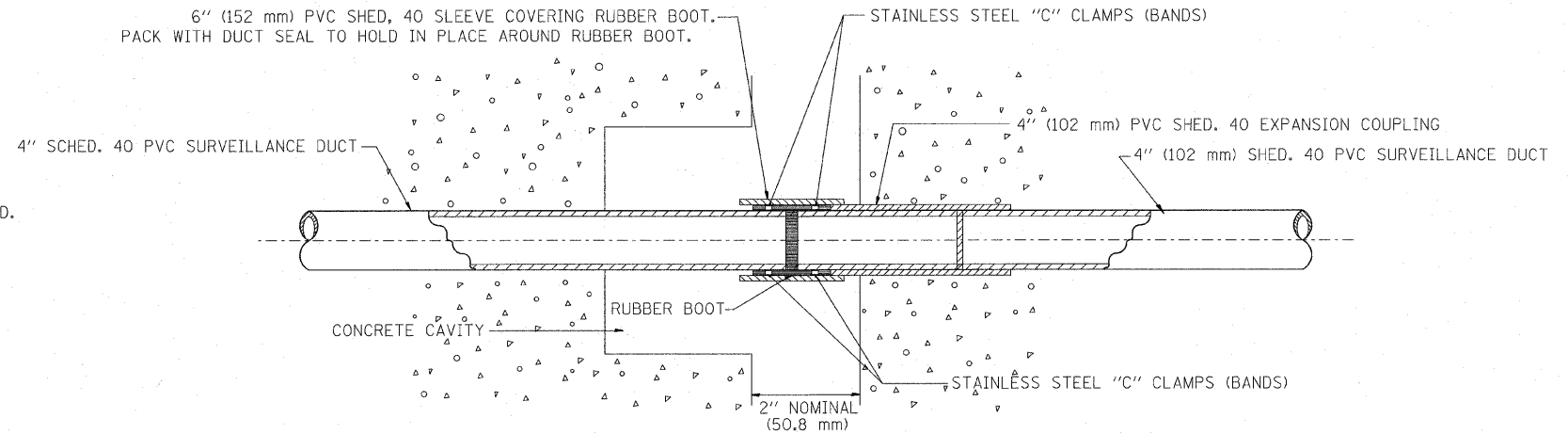
CROSS SECTION



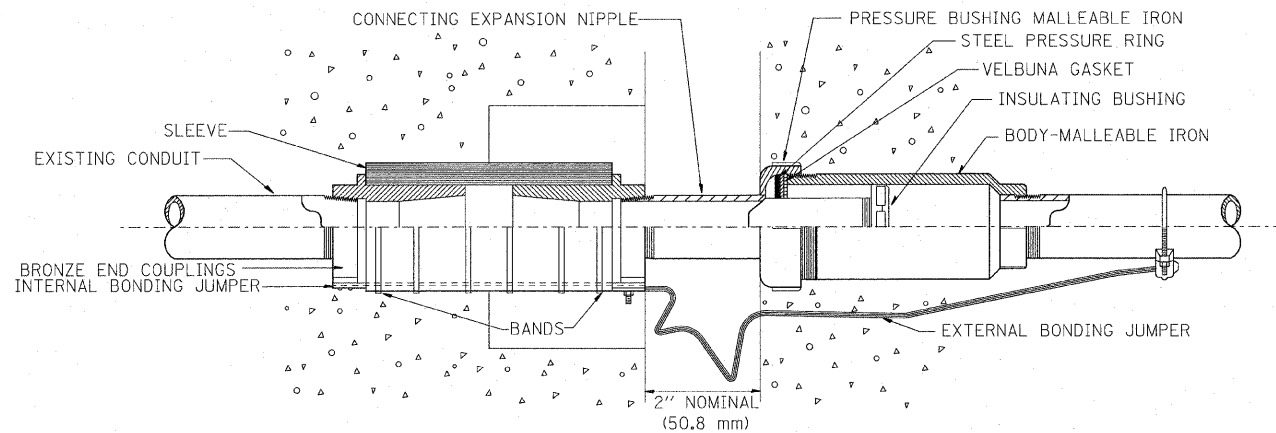
BONDING EXPANSION FITTINGS

MATERIALS:
 HEAD: MALLEABLE OR DUCTILE IRON.
 SLEEVE: STEEL.
 INSULATING BUSHING: PHENOLIC.

FINISH:
 HOT DIP GALVANIZED.



EXPANSION/DEFLECTION FITTING



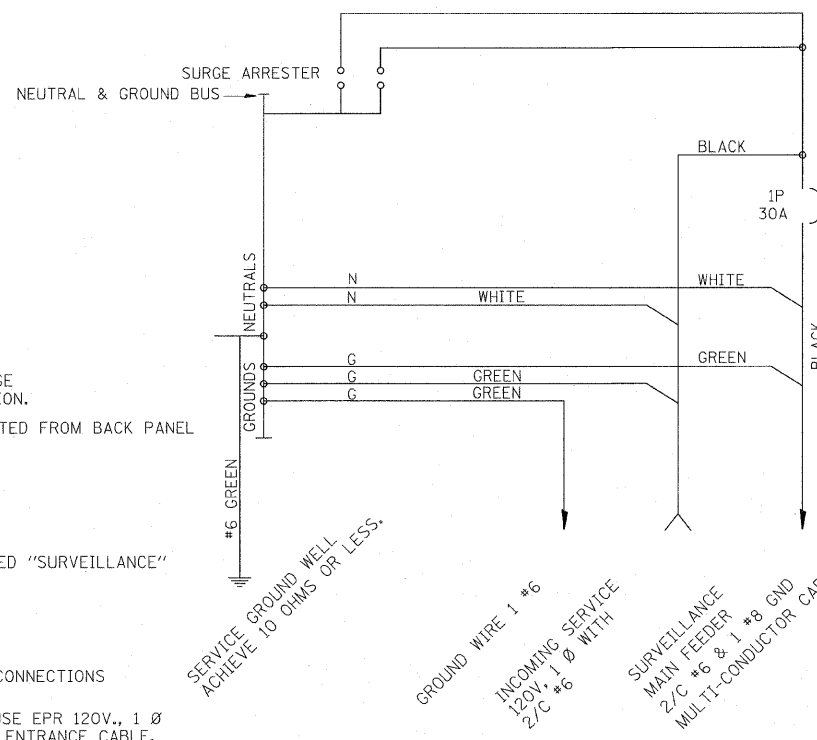
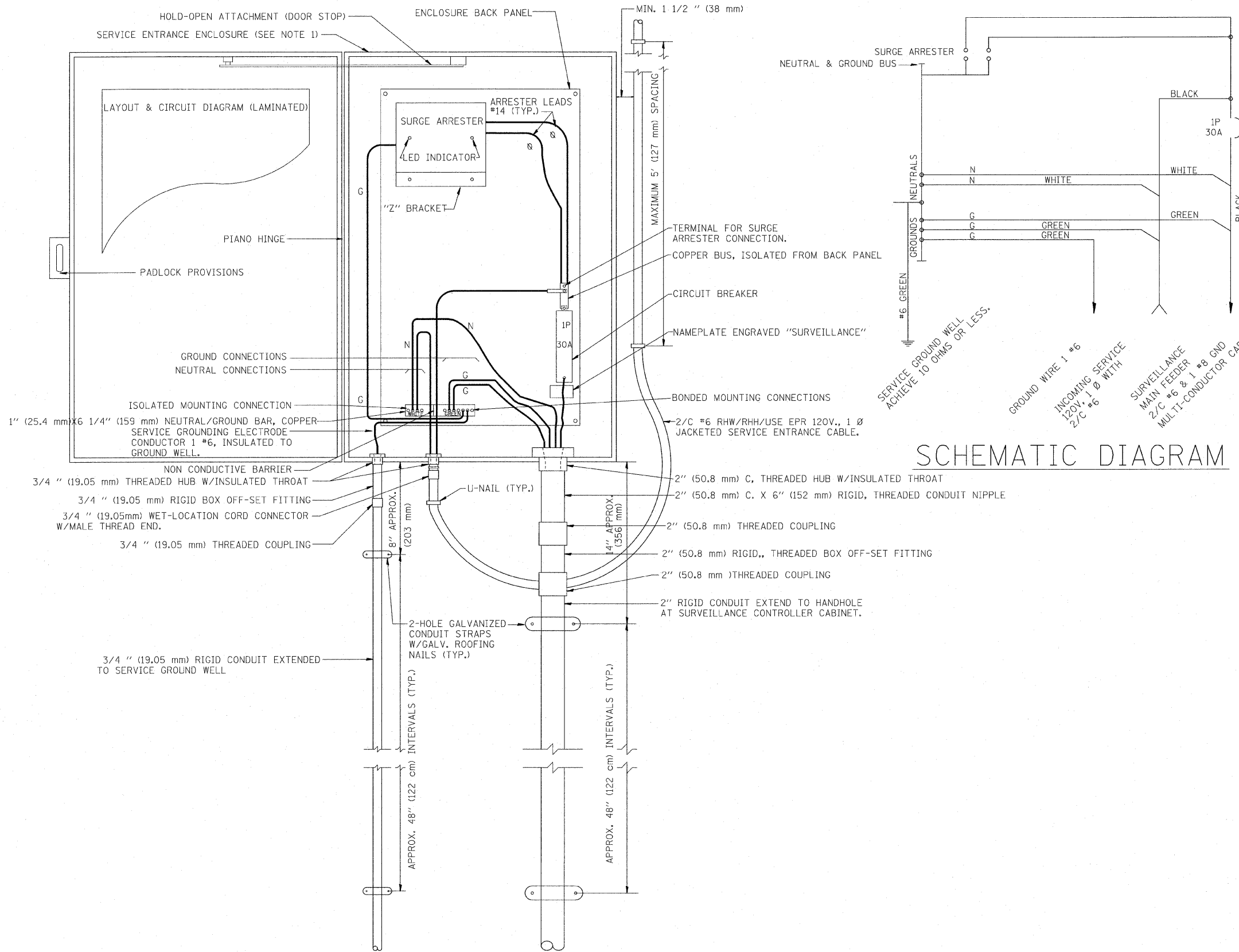
COMBINATION DEFLECTION/EXPANSION FITTINGS FOR RIGID METAL CONDUIT & IMC

FITTING CAN BE USED EXPOSED OR EMBEDDED IN CONCRETE.

MATERIALS:
 SLEEVE: NEOPRENE.
 END COUPLINGS: BRONZE.
 BONDING JUMPER: TINNED COPPER BRAIDS.
 BANDS: STAINLESS STEEL.

FINISH:
 ALL MALLEABLE, DUCTILE IRON OR STEEL PARTS
 ARE HOT DIP GALVANIZED.

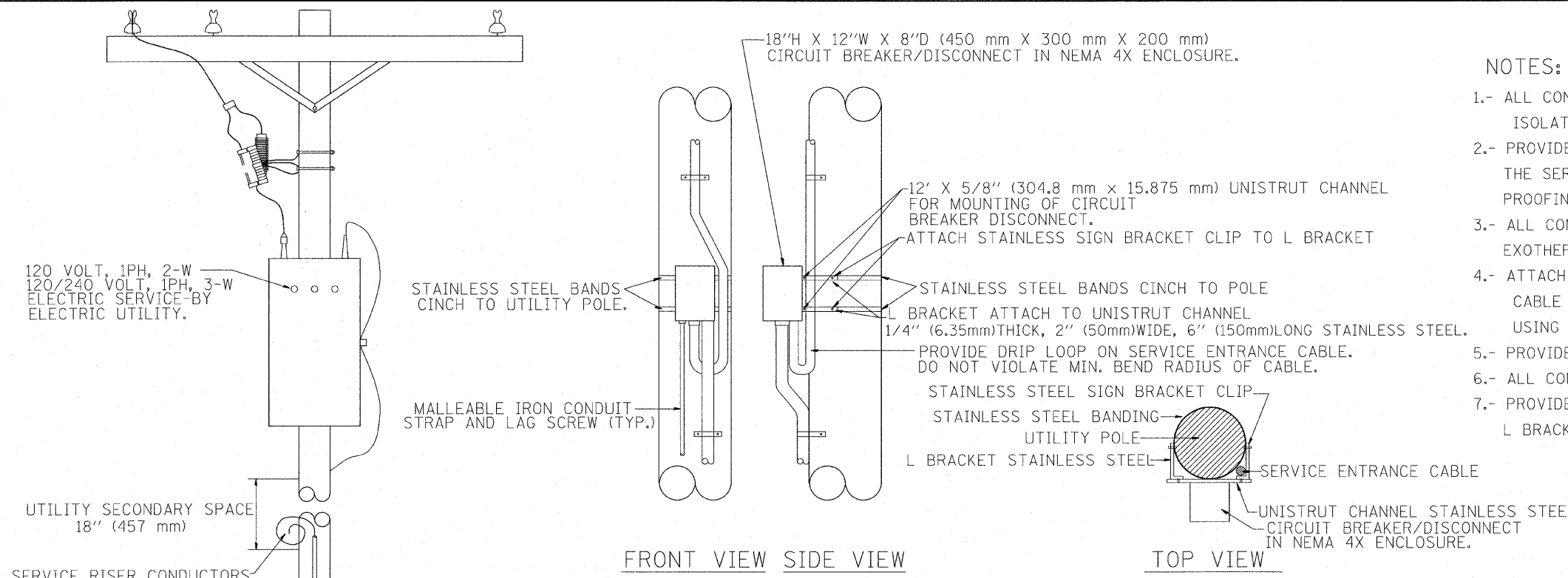
| | | | | | | | | | | | | |
|---------------------------------------|--------------------|-----------------|-----------------|--|--|---------------------|--------------|---------------------|---------------------------|--------------|-----------------|--------------|
| FILE NAME = C:\d106010\155TCTYP.DGN | USER NAME = rdahan | DESIGNED - R.L. | REVISED - 03/99 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | EXPANSION FITTING DETAIL SHEET | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| P:\P-07-1600-11\Gen\180\NAPERVTYP.dgn | | DRAWN - G.M. | REVISED - | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. | 74 | 56 |
| | | CHECKED - R.L. | REVISED - | | | | | | | | | |
| | | DATE - 01/22/98 | REVISED - | | | | | | | | | |



- NOTES:**
- 1.- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED. WHERE 120-VOLT SERVICE IS INDICATED, SERVICE DROP CABLE SHALL BE INSTALLED ACCORDINGLY AND LIGHTING MAIN FEEDER CABLE SHALL BE OMITTED.
 - 2.- THE ELECTRIC SERVICE BOX SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" (305 mm) X 18" (457 mm) X 8" (203 mm), WITH PIANO HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS, DOOR STOP KIT AND STEEL BACK PANEL, HOFFMAN CATALOG A-16H1208SS6LP/A-16P2/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - 3.- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
 - 4.- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - 5.- THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF >3600 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 65 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV 230L065XST OR APPROVED EQUAL. SURGE PROTECTOR SHALL BE WIRED FOR 120 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.
 - 6.- BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
 - 7.- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
 - 8.- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - 9.- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - 10.- PROVIDE ON LAYOUT AND CIRCUIT DIAGRAM A BILL OF MATERIALS USED WITH CATALOG NUMBERS.
 - 11.- REFER TO T.S.C. TYPICAL DRAWING TY-1TSC-400*20 FOR POLE MOUNTED DISCONNECT MOUNTING DETAILS.

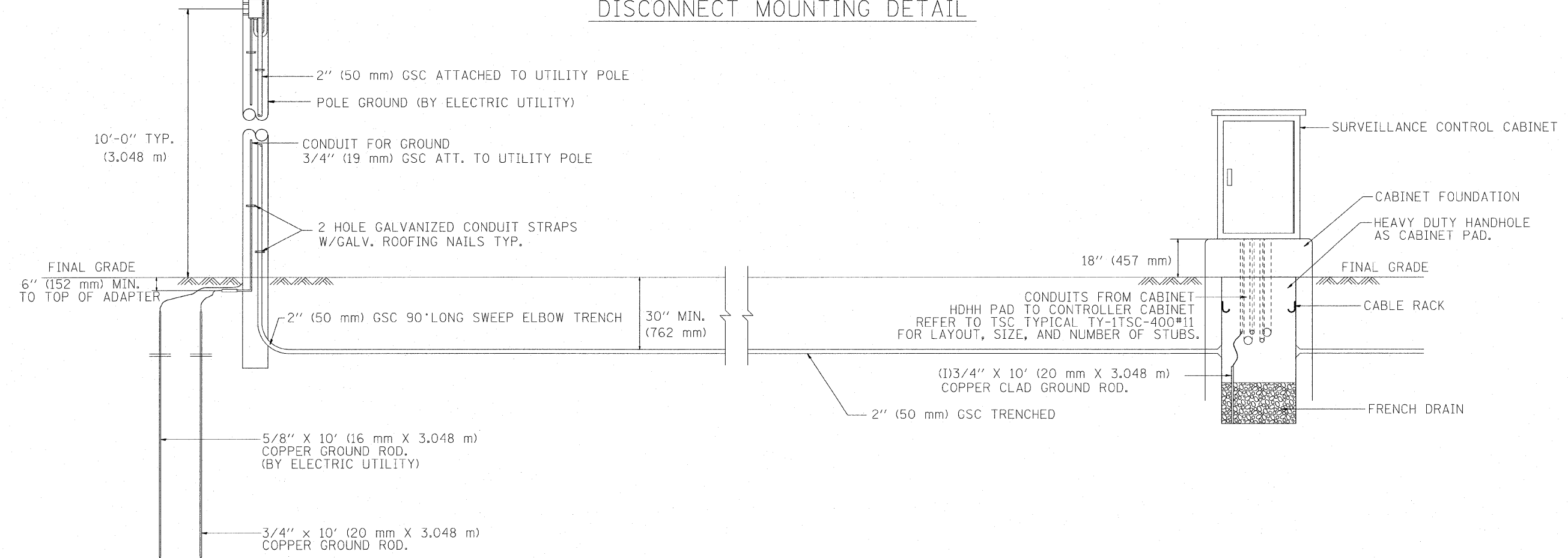
**ELECTRIC SERVICE
GENERAL LAYOUT DIAGRAM**

| | | | | | | | | | | | |
|---------------------------------------|---------------------|--------------------|--------------------|---|--|-----------|-----------|--------|--------------|---------------------|---------------------------|
| FILE NAME = C:\d106010\155TSC1TYP.DGN | USER NAME = rdehlan | DESIGNED - R.L. | REVISED - 03/01/99 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | DISTRICT 1 SURVEILLANCE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| P:\P-07-1600-11\Gen\180NAPERVTYP.dgn | DRAWN - G.M. | REVISED - 03/30/99 | SCALE: NONE | | | SHEET NO. | OF SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |
| PLOT SCALE = #SCALE# | CHECKED - R.L. | REVISED - 04/99 | CONTRACT NO. | | | | | | | | |
| PLOT DATE = 3/18/2010 | DATE - 02/24/99 | REVISED - 04/12/99 | | | | | | | | | |

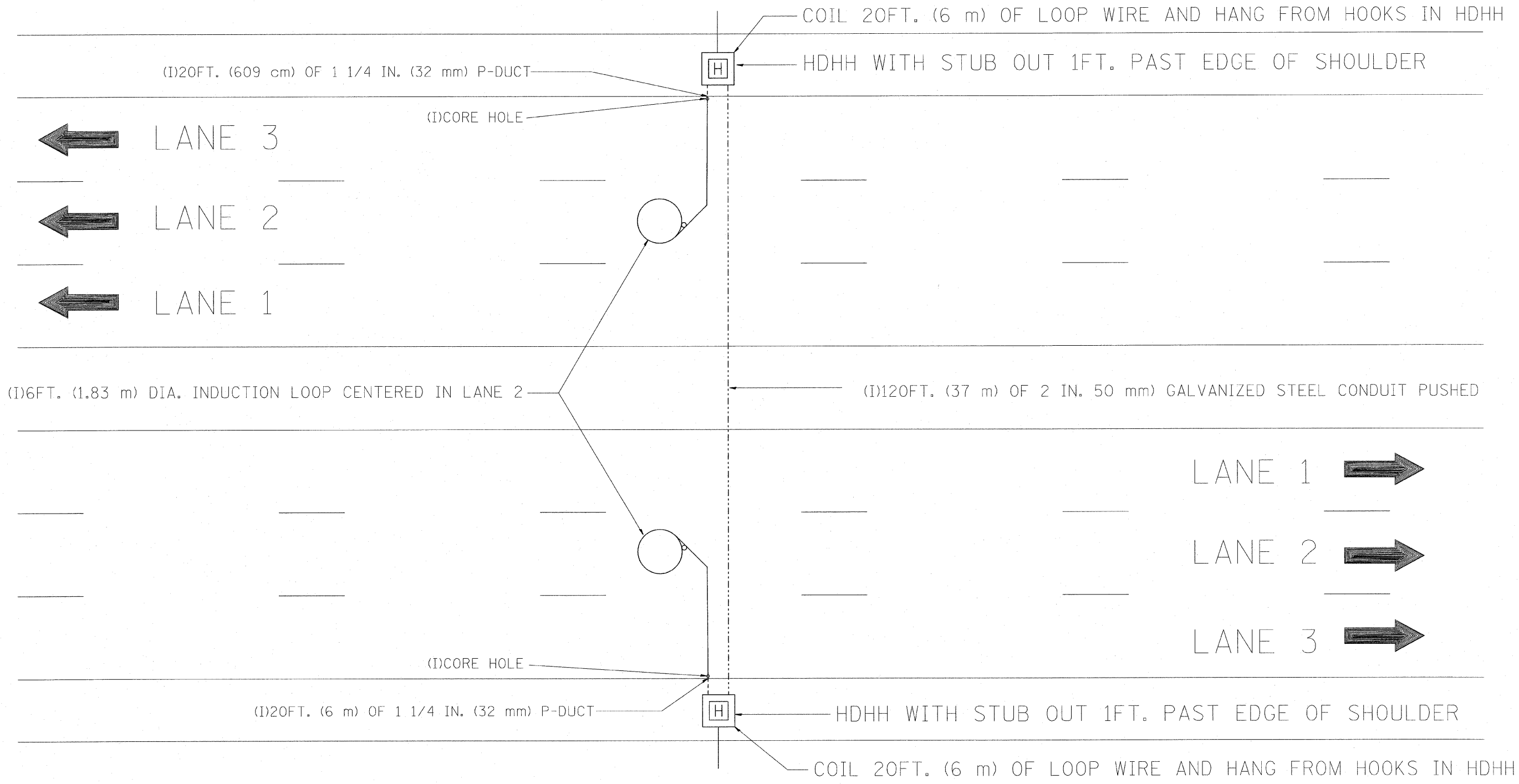


- NOTES:**
- 1.- ALL CONDUIT BUSHINGS SHALL HAVE AN ISOLATED THROAT.
 - 2.- PROVIDE HEAT SHRINK BOOT AT THE TOP OF THE SERVICE ENTRANCE CABLE FOR MOISTURE PROOFING.
 - 3.- ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC UNLESS OTHERWISE NOTED.
 - 4.- ATTACH INCOMING ELECTRIC SERVICE CABLE TO UTILITY POLE EVERY 5 FEET USING INSULATED U-NAIL.
 - 5.- PROVIDE CABLE RACK IN HANDHOLES.
 - 6.- ALL CONDUCTORS SHALL BE COPPER.
 - 7.- PROVIDE STAINLESS STEEL HARDWARE TO ATTACH L BRACKETS TO UNISTRUT AND TO SIGN HANGER.

**NTS
DISCONNECT MOUNTING DETAIL**



| | | | | | | | | | | | | | |
|---------------------------------------|----------------------|-----------------|-----------|--|---|-----------|-----------|-----------|---------|---------------------|---------------------------|-----------|----|
| FILE NAME = | USER NAME = r-dahhan | DESIGNED - R.L. | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | POLE MOUNTED DISCONNECT MOUNTING DETAILS | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| P:\P-07-1600-11\Gen\180\NAPERVTYP.dgn | | DRAWN - G.M. | REVISED - | | SCALE: NONE | SHEET NO. | OF SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | 74 | 58 |
| | | CHECKED - R.L. | REVISED - | | | | | | | CONTRACT NO. | | | |
| | | DATE - 03/30/99 | REVISED - | | | | | | | | | | |



NOTE:
 THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
 IT SHALL NOT BE MEASURE FOR PAYMENT.

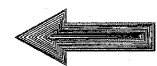
INSTALL AT STATIONS.

| | | | | | | | | | | | | |
|---|-----------------------|-----------------|-----------|---|------------------------|--|--|---|---------------------|--------------|--------------|-----------|
| FILE NAME = P:\P-07-1602-11\Gen\180NAPERVTYP.dgn | USER NAME = rdehhan | DESIGNED - J.G. | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | ONE LANE COUNT STATION | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = #SCALE# | DRAWN - G.M. | REVISED - | | | | | | | | 74 | 59 |
| | PLOT DATE = 3/18/2010 | CHECKED - J.G. | REVISED - | | | | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. | |
| | DATE - 01-31-07 | REVISED - | | | | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

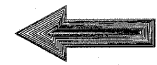
COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

(I)10FT. (3 m) OF 1 1/4 IN. (32 mm) (P-DUCT(TRENCHED))



LANE 3



LANE 2



LANE 1

(I)120FT. (37 m) OF 2 IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

(I)6FT. DIA. (1.83 m) INDUCTION LOOP CENTERED IN EACH LANE

LANE 1



LANE 2



LANE 3



HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

(I)CORE HOLE

(I)10FT. (3 m) OF 1 1/4 IN. (30.0 mm) P-DUCT(TRENCHED)

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

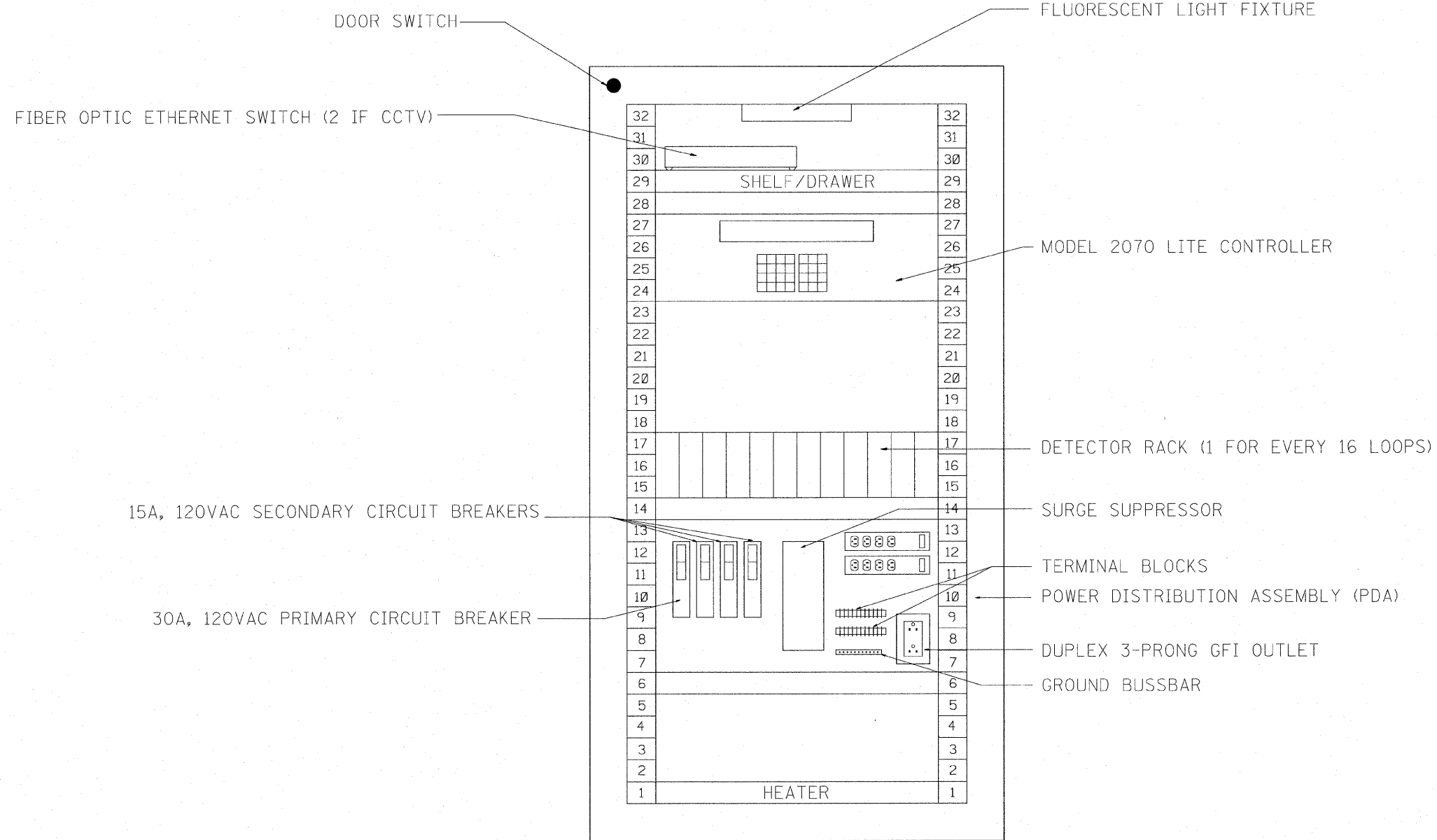
NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

INSTALL AT STATIONS.

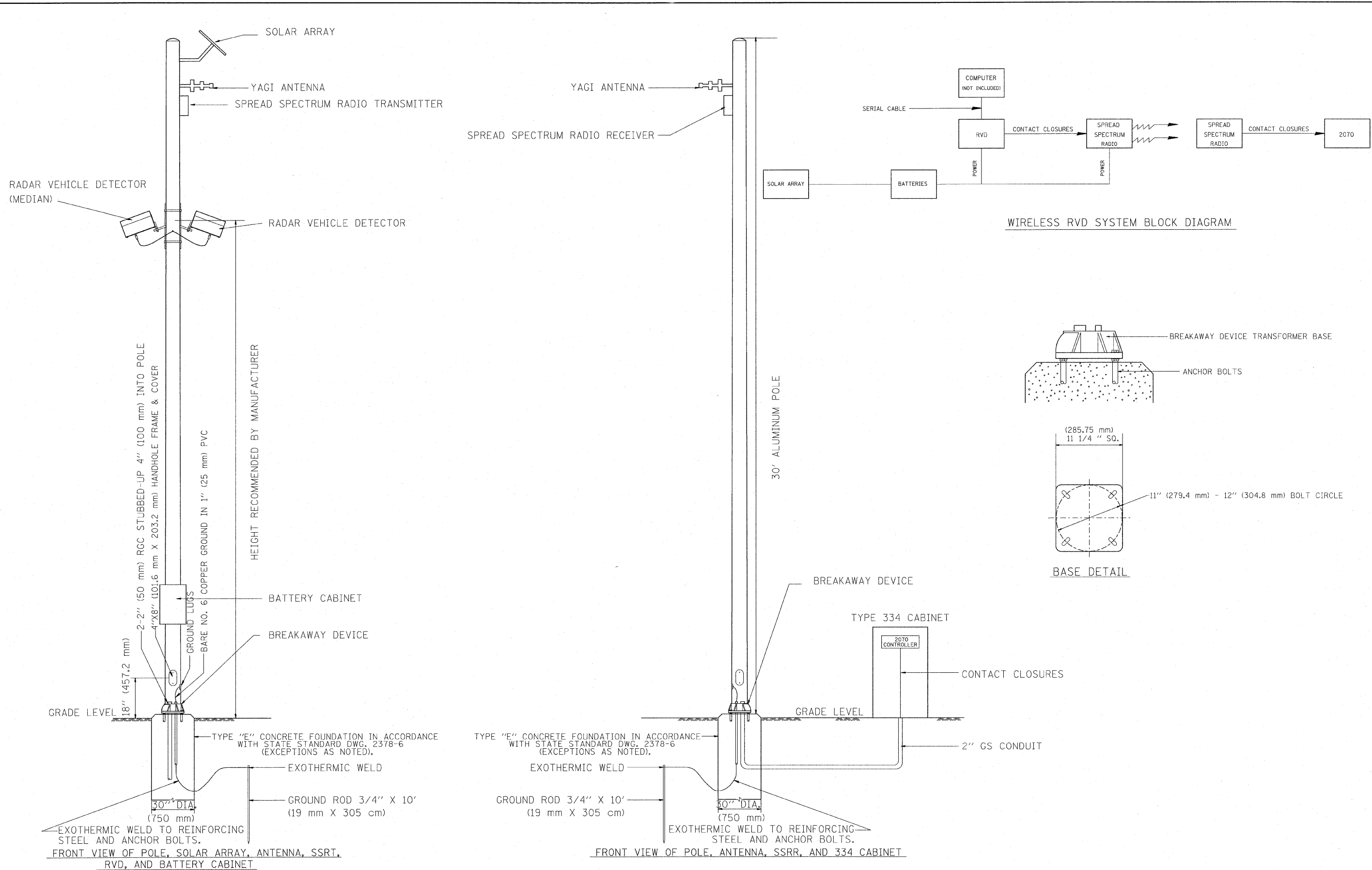
| | | | | | | | | | | | | | |
|---|---------------------|-----------------|-----------|---|----------------------|-----------|----|--------------|---------|---------|---------------------|--------------|------------------|
| FILE NAME = P:\P-07-1600-11\Gen\10\NAPERVTYP.dgn | USER NAME = rdehhen | DESIGNED - J.G. | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | 3 LANE COUNT STATION | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | | DRAWN - G.M. | REVISED - | | SCALE: NONE | SHEET NO. | OF | SHEETS | STA. | TO STA. | | 74 | 60 |
| | | CHECKED - J.G. | REVISED - | | | | | | | | CONTRACT NO. | | |
| | | DATE - 01-31-07 | REVISED - | | | | | | | | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#32)



SYSTEM DETECTORS
FRONT VIEW (TYPICAL)

| | | | | | | | | | | | | |
|--------------------------------------|--------------------|-----------------|----------------------|---|---|-----------|-----------|-----------|---------|--------------|--------------|-----------|
| FILE NAME = C:\d10620\1851SCTYP.DGN | USER NAME = rdahen | DESIGNED - J.G. | REVISED - 01/27/2010 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | CABINET, MODEL 334 RACK LAYOUT | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| P:\P-07-1600-11\Gen\182\NAPERVTP.dgn | | DRAWN - G.M. | REVISED - 03/04/2010 | | SCALE: NONE | SHEET NO. | OF SHEETS | STA. | TO STA. | CONTRACT NO. | | |
| | | CHECKED - R.L. | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |
| | | DATE - 12/28/09 | REVISED - | | TRAFFIC SYSTEMS CENTER (TY-1TSC-400#37) | | | | | | | |



FILE NAME = C:\d186010\155TCTYP.DGN
 P:\P-07-1600-11\Gen\180NAPERVTYP.dgn

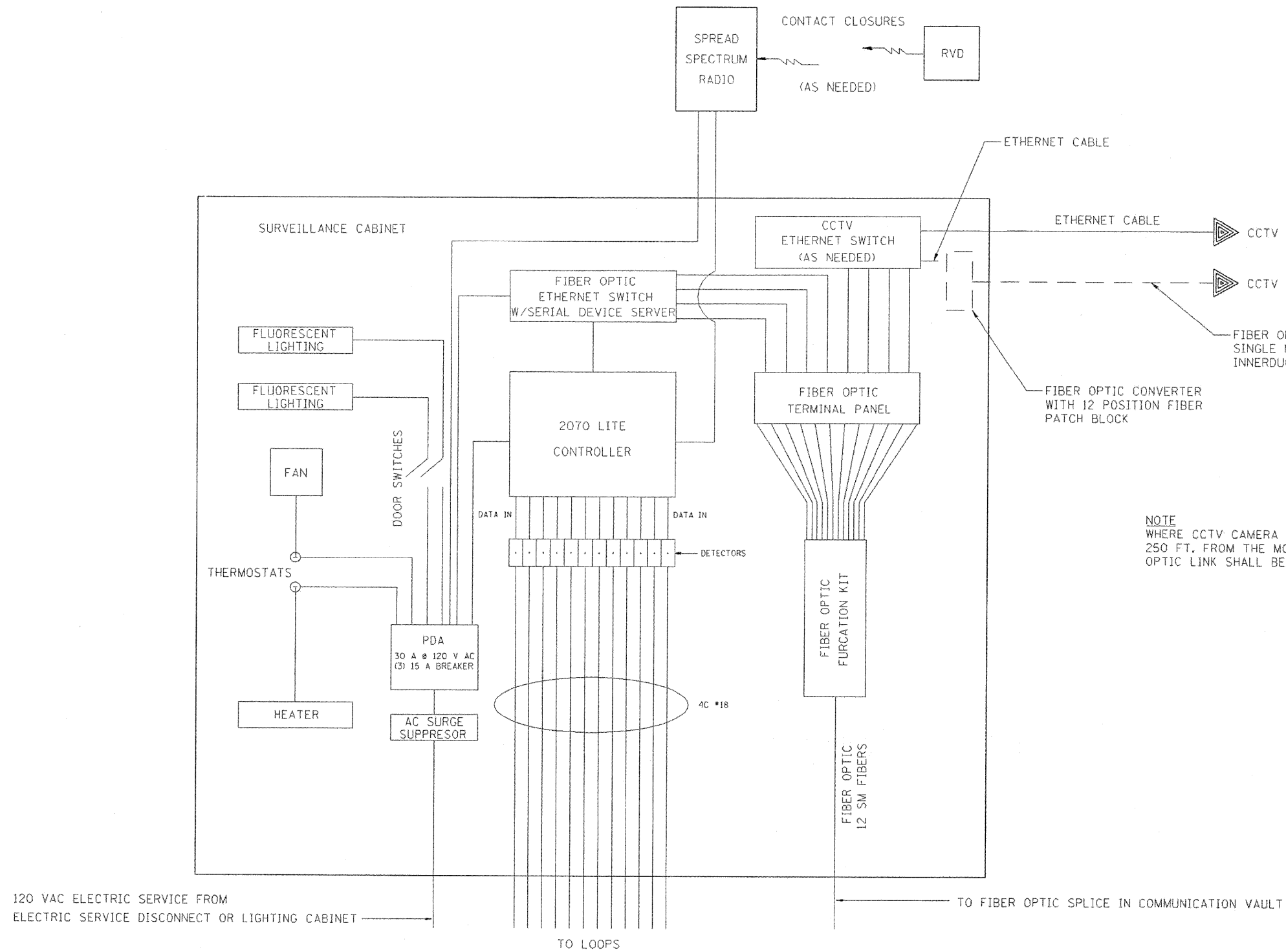
USER NAME = rdathan
 DESIGNED - J.G.
 DRAWN - G.M.
 CHECKED - J.G.
 DATE - 06-30-04
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2010

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

**SOLAR POWERED SPREAD SPECTRUM
 RADAR VEHICLE DETECTOR**
 SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------|-----------|
| | | | 74 | 62 |
| CONTRACT NO. | | | | |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | |



12 LOOP COUNT, OCCS, SPEED, CLASSIFICATION
DETECTOR SYSTEM SINGLE LINE DIAGRAM

| | | | |
|------------------------------------|----------------------|-----------------|----------------------|
| FILE NAME = C:\06010\155TSC1YP.DGN | USER NAME = #USGR# | DESIGNED - J.G. | REVISED - 01/25/2010 |
| #FILE# | | DRAWN - G.M. | REVISED - |
| | PLOT SCALE = #SCALE# | CHECKED - J.G. | REVISED - |
| | PLOT DATE = #DATE# | DATE - 12/29/09 | REVISED - |

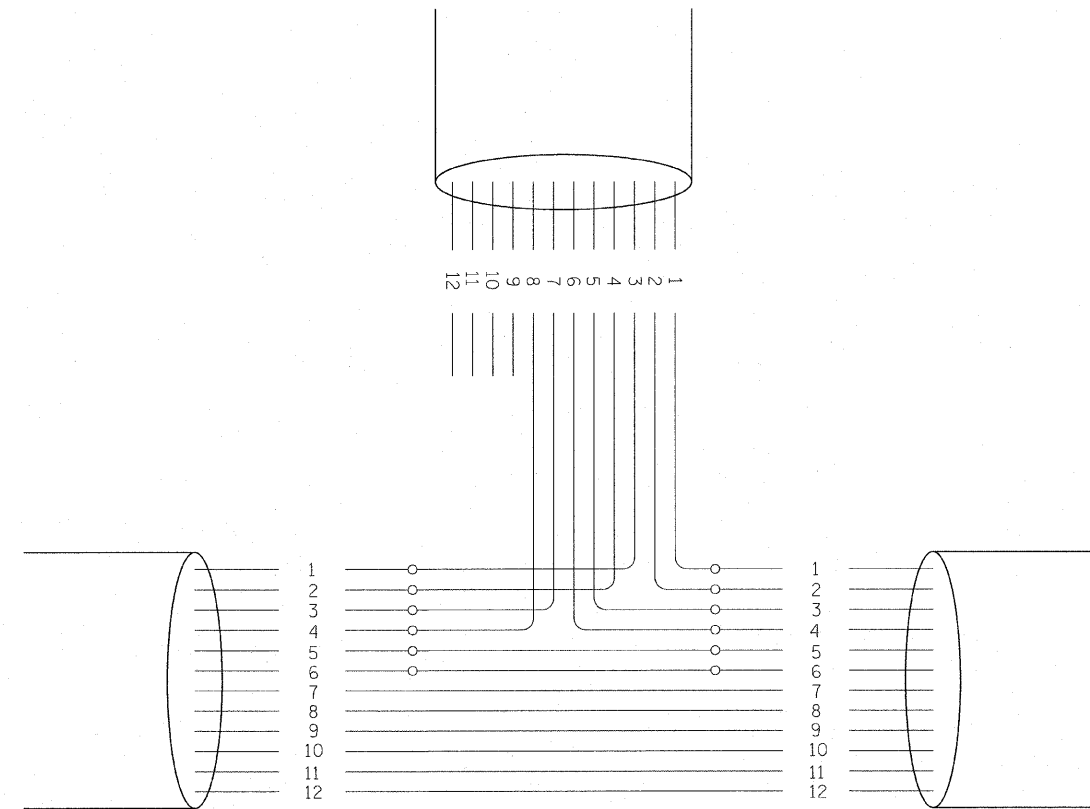
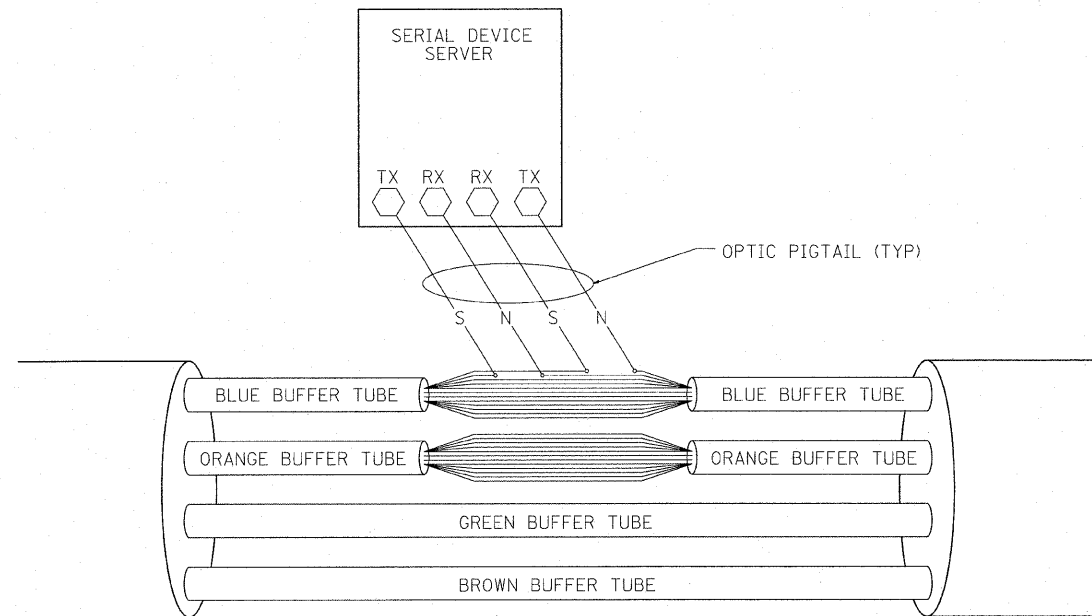
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

CABINET MODEL 334
WIRING DETAILS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------------|-----------|
| | | | 74 | 63 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60K06 | |

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

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#39)



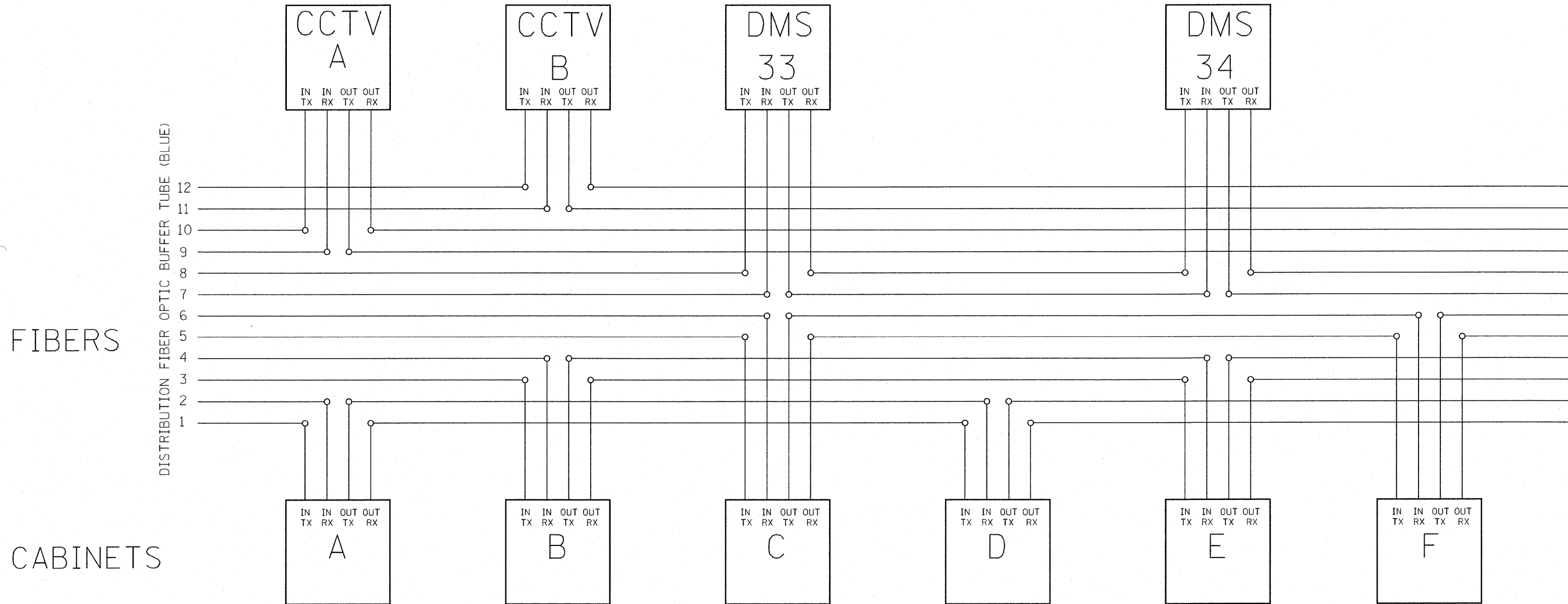
PHYSICAL SPLICE DETAILS (TYP)
(NOT TO SCALE)

| FIBERS | | FUNCTION | APPLICATION DESCRIPTION |
|-----------|------------|----------|-------------------------|
| FIBER NO. | COLOR CODE | | |
| 1 | BLUE | IN TX | DATA CIRCUIT |
| 2 | ORANGE | IN RX | |
| 3 | GREEN | OUT RX | |
| 4 | BROWN | OUT TX | |
| 5 | SLATE | IN TX | DMS |
| 6 | WHITE | IN RX | |
| 7 | RED | OUT RX | |
| 8 | BLACK | OUT TX | CCTV |
| 9 | YELLOW | IN TX | |
| 10 | VIOLET | IN TX | |
| 11 | ROSE | OUT RX | |
| 12 | AQUA | OUT TX | |

NOTE:

1.- THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE.

| | | | | | | | | | | | | |
|---------------------------------------|---------------------|-----------------|----------------------|--|---|---------------------|--------------|--------------|---|--------|-----------------|--------------|
| FILE NAME = C:\vd186210\1551SCTYP.DGN | USER NAME = rdahhan | DESIGNED - J.G. | REVISED - 03/04/2010 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | FIBER OPTIC SPLICING TYPICAL | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| P:\P-07-1600-11\Gen\18\NAFERV.TYP.dgn | | DRAWN - G.M. | REVISED - | | SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. | | 74 | 64 | |
| | | CHECKED - J.G. | REVISED - | | | | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | |
| | | DATE - 12/29/09 | REVISED - | | TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#411 | | | | | | | |

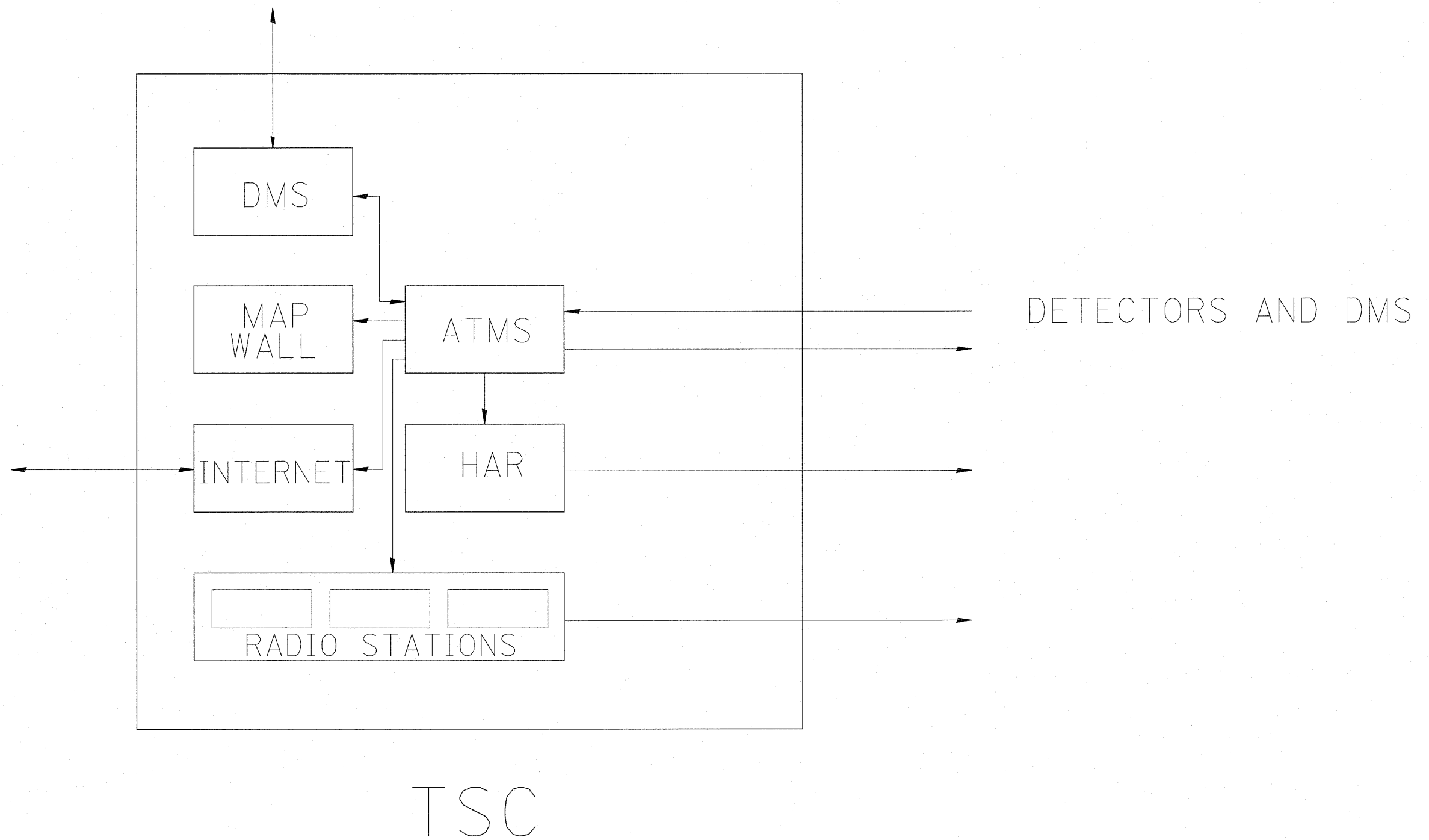


FIBERS 1 AND 2 CABINETS 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49.
 FIBERS 3 AND 4 CABINETS 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41, 44, 47, 50.
 FIBERS 5 AND 6 CABINETS 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48.
 FIBERS 7 AND 8 DMS 33, DMS 34.
 FIBERS 9 AND 10 CCTV 50, 49, 47B, 47, 45, 43A, 42, 40, 38, 37, 35A, 34, 32, 30A, 29.
 FIBERS 11 AND 12 CCTV 51, 49A, 48, 47A, 46, 44, 43, 40A, 39, 37A, 36, 35, 32A, 31, 30.

NOTE:

- 1.- CABINETS 8A, 8B, 8C, 32, 33, 39, 46, 47 ARE SPSSRVDS, SO THEY DO NOT GET ATTACHED TO THE FIBER.
- 2.- CCTV 49 AND 49A ARE IN THE ARSENAL RD. CONTRACT.

| | | | | | | | | | | | | | | |
|---|-------------------|-----------------|----------------------|--|---|-----------|-----------|-------------|---------|--------|--------------|-----------|----|----|
| FILE NAME = C:\02092010 SUBMITTAL\IG0\NAPERV1.TYP.dgn | USER NAME = mezeg | DESIGNED - J.G. | REVISED - 01/27/2010 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | FIBER OPTIC SPLICING DETAIL | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| C:\02092010 Submittal\IG0\NAPERV1.TYP.dgn | | DRAWN - G.M. | REVISED - 03/05/2010 | | SCALE: NONE | SHEET NO. | OF SHEETS | STA. | TO STA. | 55 | 2009-1395G | WILL | 74 | 65 |
| | | CHECKED - J.G. | REVISED - 04/08/2010 | | CONTRACT 60K06 | | | | | | | | | |
| | | DATE - 12/29/09 | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | | | |



FILE NAME = C:\vd106810\1551SCTYP.DGN
 P:\P-07-1600-11\Gen\180\NAPERVTYP.dgn

USER NAME = rdshhan
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2010

DESIGNED - J.G.
 DRAWN - G.M.
 CHECKED - J.G.
 DATE - 01/07/2010

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

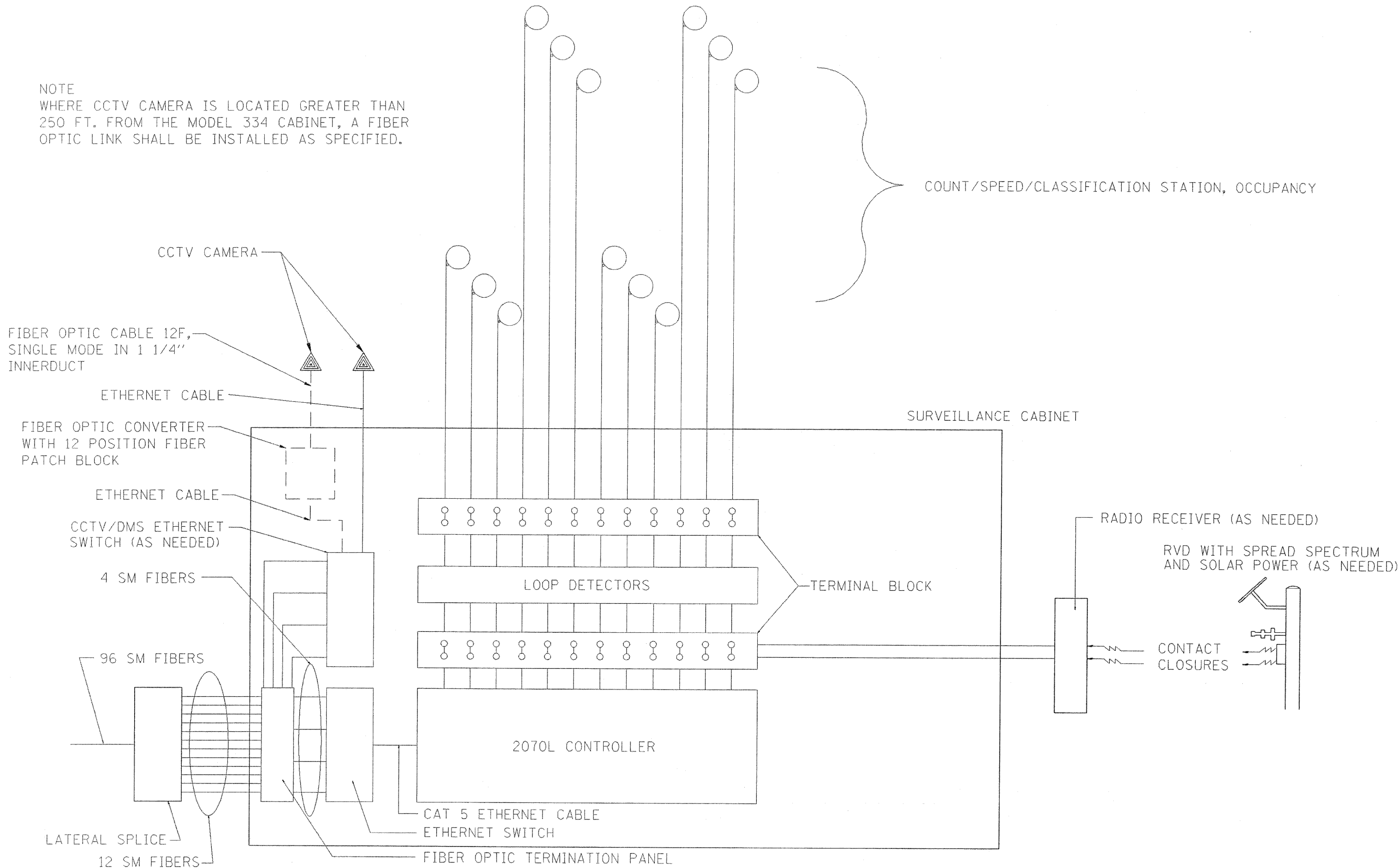
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

TSC ATMS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|--------|---------------------------|-----------|
| | | | 74 | 66 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NO. | | | | |

TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#43)

NOTE
 WHERE CCTV CAMERA IS LOCATED GREATER THAN
 250 FT. FROM THE MODEL 334 CABINET, A FIBER
 OPTIC LINK SHALL BE INSTALLED AS SPECIFIED.



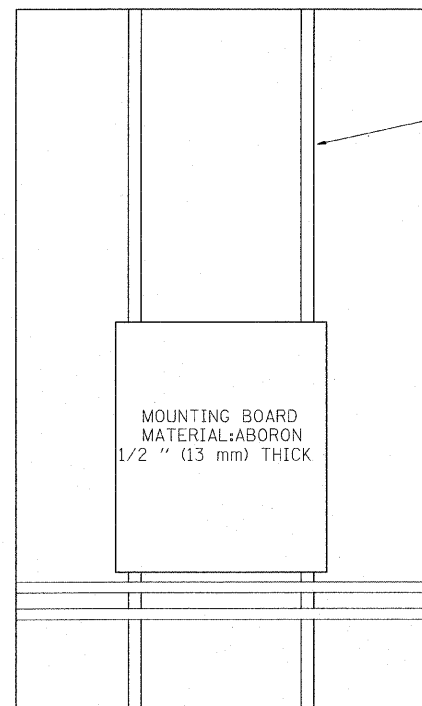
| | | | |
|-------------------------------------|----------------------|-----------------|----------------------|
| FILE NAME = C:\j06810\1551SCTYP.DGN | USER NAME = #USERS | DESIGNED - J.G. | REVISED - 01/27/2010 |
| #FILE# | | DRAWN - G.M. | REVISED - 03/05/2010 |
| | PLOT SCALE = #SCALE# | CHECKED - J.G. | REVISED - |
| | PLOT DATE = #DATE# | DATE - 12/29/09 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

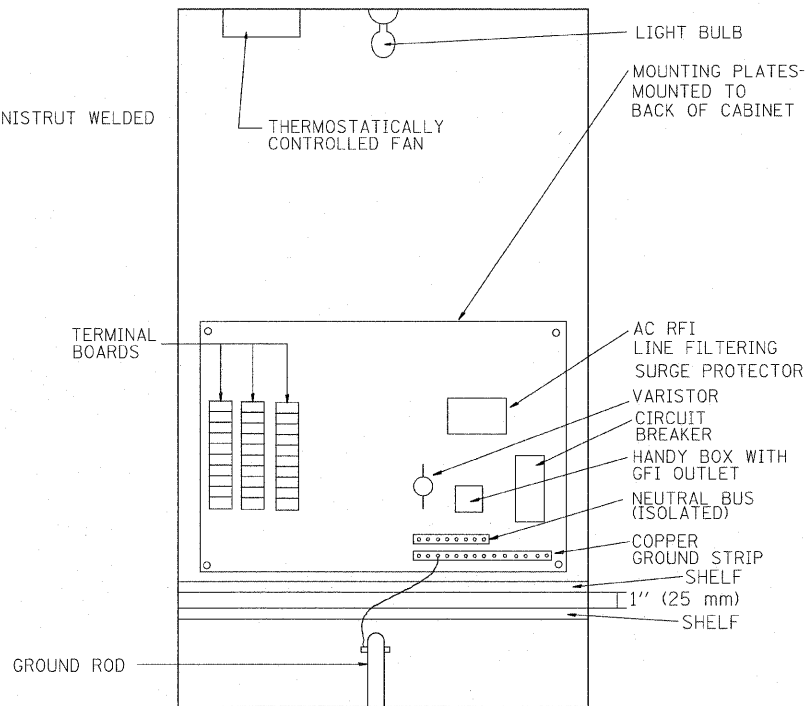
LOOP DETECTOR/SPEED DETECTOR
 CABINET LAYOUT
 SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------|-----------|
| | | | 74 | 67 |
| CONTRACT NO. 60R06 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

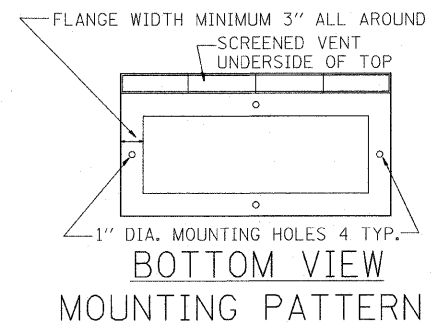
TRAFFIC SYSTEMS CENTER 4TY-1TSC-400#44)



SIDE VIEW ESP 3 & 4 CABINET



ESP 3 CABINET



TYPICAL CABINET INTERIORS
STANDARD TRAFFIC SYSTEMS CENTER CABINETS

| TYPE | HEIGHT (IN-mm) | WIDTH (IN-mm) | DEPTH (IN-mm) | THICKNESS (IN-mm) | MATERIAL |
|------|------------------|-------------------|------------------|-------------------|---------------------|
| ESP1 | 22.5" (571.5 mm) | 14.25" (361.95mm) | 9.75" (247.65mm) | 3/16" (4.76mm) | FABRICATED ALUMINUM |
| ESP2 | 36" (914.4mm) | 20" (508.0mm) | 15" (381.0mm) | 73/16" (4.76mm) | FABRICATED ALUMINUM |
| ESP3 | 49.5" (1.26 m) | 30" (762.0mm) | 17" (431.8mm) | 3/16" (4.76mm) | FABRICATED ALUMINUM |
| ESP4 | 55" (1.4 m) | 44" (1.12 m) | 26" (660.4mm) | 3/16" (4.76mm) | FABRICATED ALUMINUM |

NOTES:

- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE. SIGNAL POSTS AND HEADS TO BE FEDERAL YELLOW 89-19(MAUTZ).
- CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
- ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 10 AMP CIRCUIT BREAKER, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, AS INCIDENTAL TO THE COST OF THE CABINET. CMS CABINETS TYPE IV SHALL HAVE A 60 AMP. CIRCUIT BREAKER MINIMUM.
- ESP 2/3/4 CABINETS SHALL BE FITTED WITH A THERMOSTATICALLY CONTROLLED FAN. IT SHALL BE MOUNTED AT THE TOP OF THE CABINET. THE FAN SHALL BE CAPABLE OF OPERATING AT 130 CPM AT 160' (48.8 m) OF STATIC WATER PRESSURE. A PORCELAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
- RAMP METERING ESP 3 TYPE CABINETS SHALL ALSO BE EQUIPPED WITH A LOAD RELAY AND 2 CIRCUIT FLASHER. LAMPS, FAN, LOAD RELAY, AND 2 CIRCUIT FLASHER SHALL BE INCIDENTAL TO THE COST OF THE CABINET
- INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 INCH (130mm) PCC SIDEWALK OF A RECTANGULAR AREA 3 FEET (915 mm) BY 4 FEET (1.25 m) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE.
- ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- ALL CABINETS SHALL HAVE TERMINAL BLOCKS AND SHELVES AS SHOWN. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 0.25 INCH (6.35 mm) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
- THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 0.25 INCH (6.35 mm) BY 0.75 INCH (19.05 mm), MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 0.875 INCH (22.22 mm) AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 0.14 INCH (3.55 mm) STEEL, MINIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK. THE HANDLE WILL BE STAINLESS STEEL WITH A 0.75 INCH (19.05 mm) DIAMETER SHANK.
- THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS.
- ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- ESP TYPE 2 & 3 CABINETS FITTED WITH TWO SHELVES AS SHOWN.
- POST TOP MOUNTED CABINETS, SHALL HAVE A 0.25 INCH (6.3 mm) BOTTOM OF CABINET WELDED.
- THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS. FLAT WASHERS SHALL BE INSTALLED BELOW AND ABOVE THE BASE PLATE OF THE CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

(X)

| | |
|------------------|---------------------|
| EDENS | WALNUT * |
| KENNEDY | BLUE STREAK ** |
| EISENHOWER | CARIBBEAN BLUE * |
| I-290/IL53/I-355 | POST OFFICE BLUE ** |
| RYAN | YELLOW STONE II ** |
| I-55 | MEDIUM BRONZE * |
| I-57 | RED BARON ** |
| CAL-KING | BLUE STREAK ** |
| LAKE SHORE DR. | GREEN * |
| I-80 | STATUARY BRONZE ** |

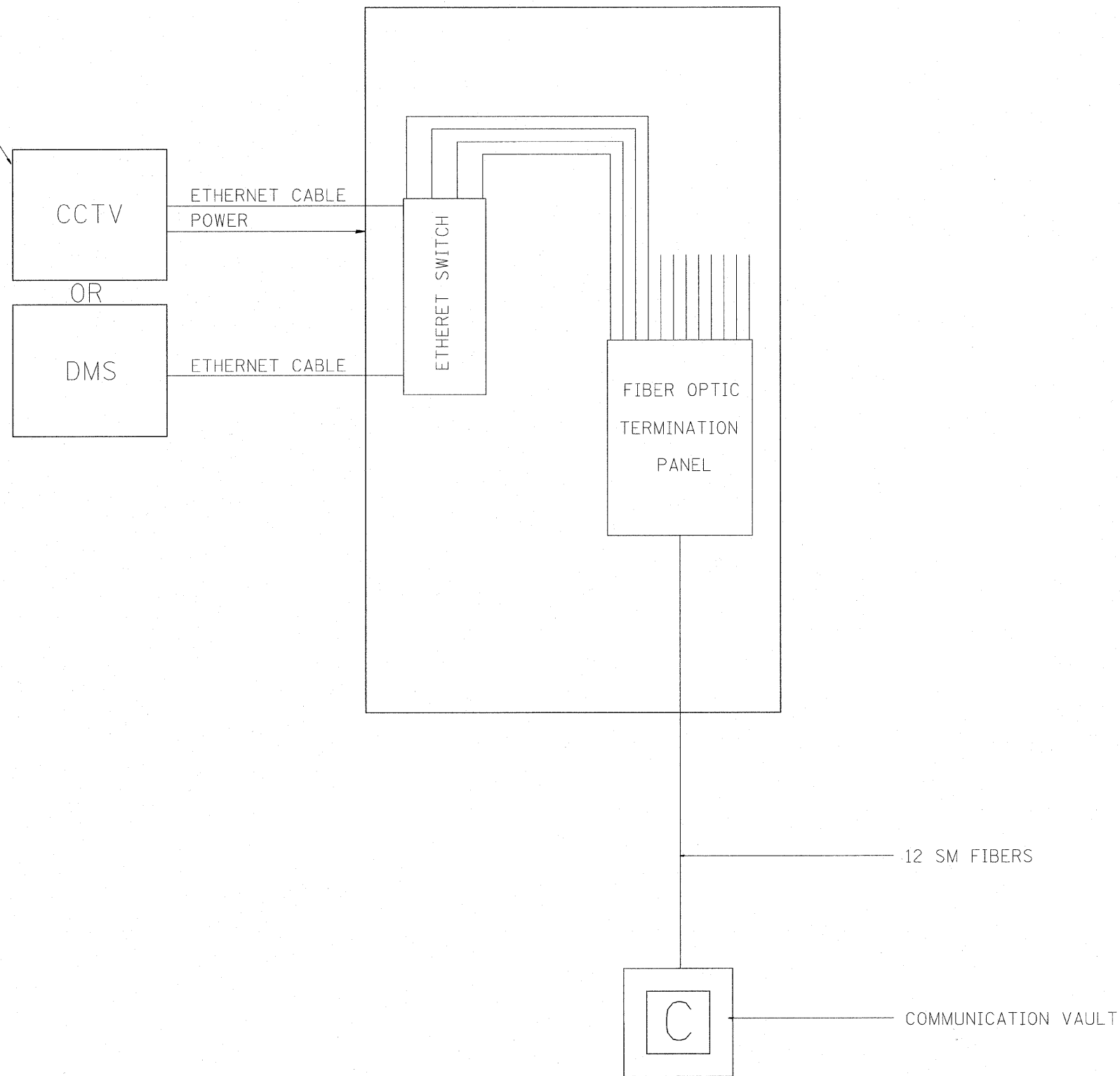
ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.

- * MORTON POWDER PAINT COLOR OR EQUIVALENT.
- ** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
- *** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS

| | | | | | | | | | | | | | | |
|--|---------------------|-------------------|-----------|---|--|-----------|----|-----------|---------|---------|---------------------|---------------------------|----|----|
| FILE NAME = C:\d106010\155TSC.TYP.DGN | USER NAME = rdahhan | DESIGNED - J.G. | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER | CCTV CABINET DETAIL SHEET | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| P:\P-07-1600-1\1\Gen\180NAPERV.TYP.dgn | | DRAWN - G.M. | REVISED - | | SCALE: NONE | SHEET NO. | OF | SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | 74 | 68 |
| | | CHECKED - J.G. | REVISED - | | | | | | | | | | | |
| | | DATE - 01/25/2010 | REVISED - | | | | | | | | | | | |

INSTALL 120V. 30AMP. CIRCUIT BREAKER IN CCTV CAB.



FILE NAME = C:\d106010\155TCTYP.DGN
 P:\P-07-1620-11\Gen\100NAPERVTYP.dgn

USER NAME = rdahan
 PLOT SCALE = #SCALE#
 PLOT DATE = 3/18/2010

DESIGNED - J.G.
 DRAWN - G.M.
 CHECKED - J.G.
 DATE - 01/25/2010

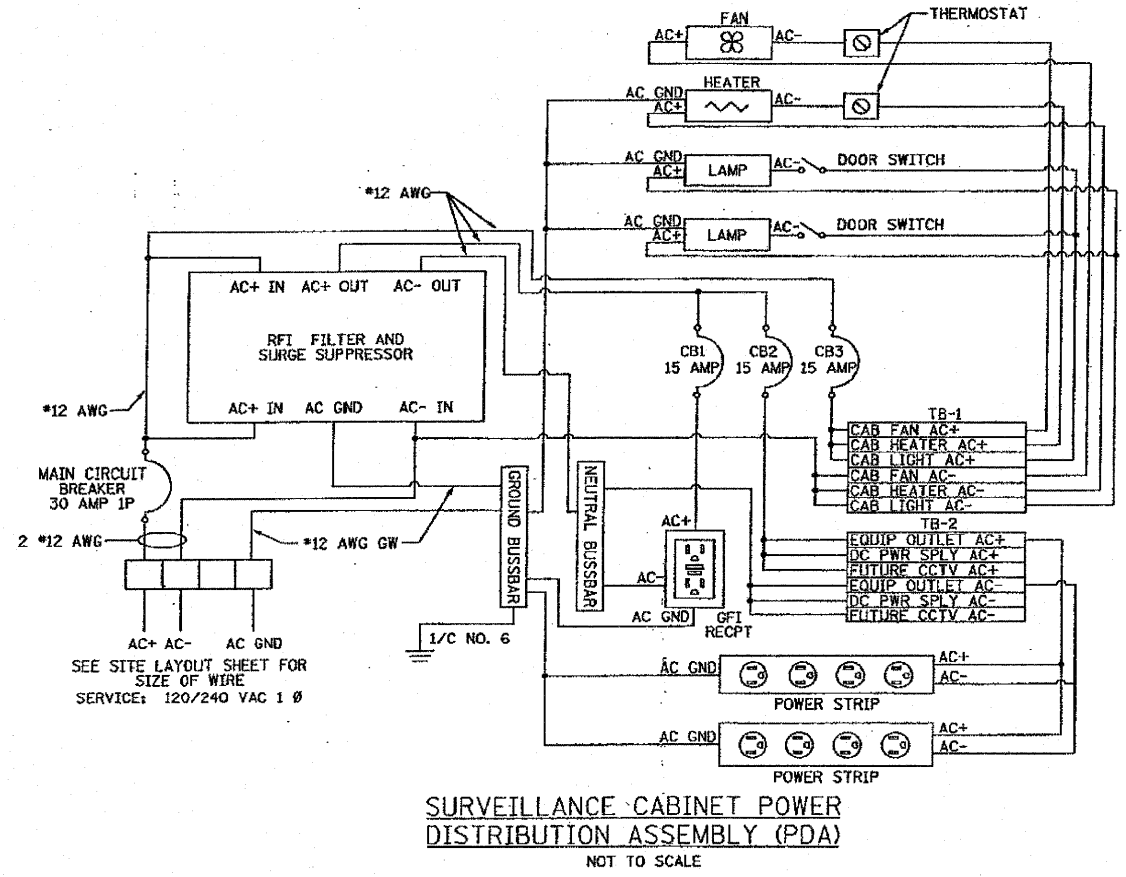
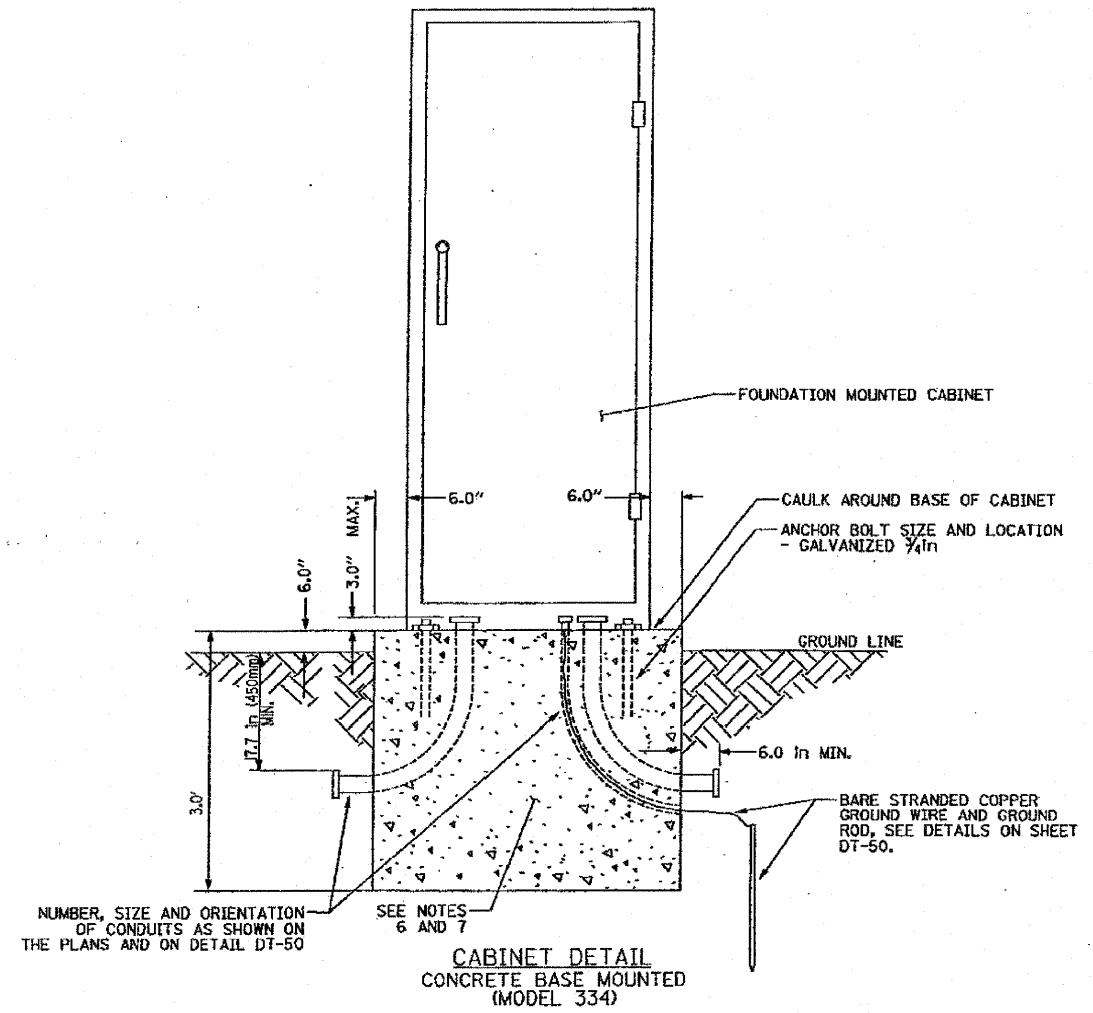
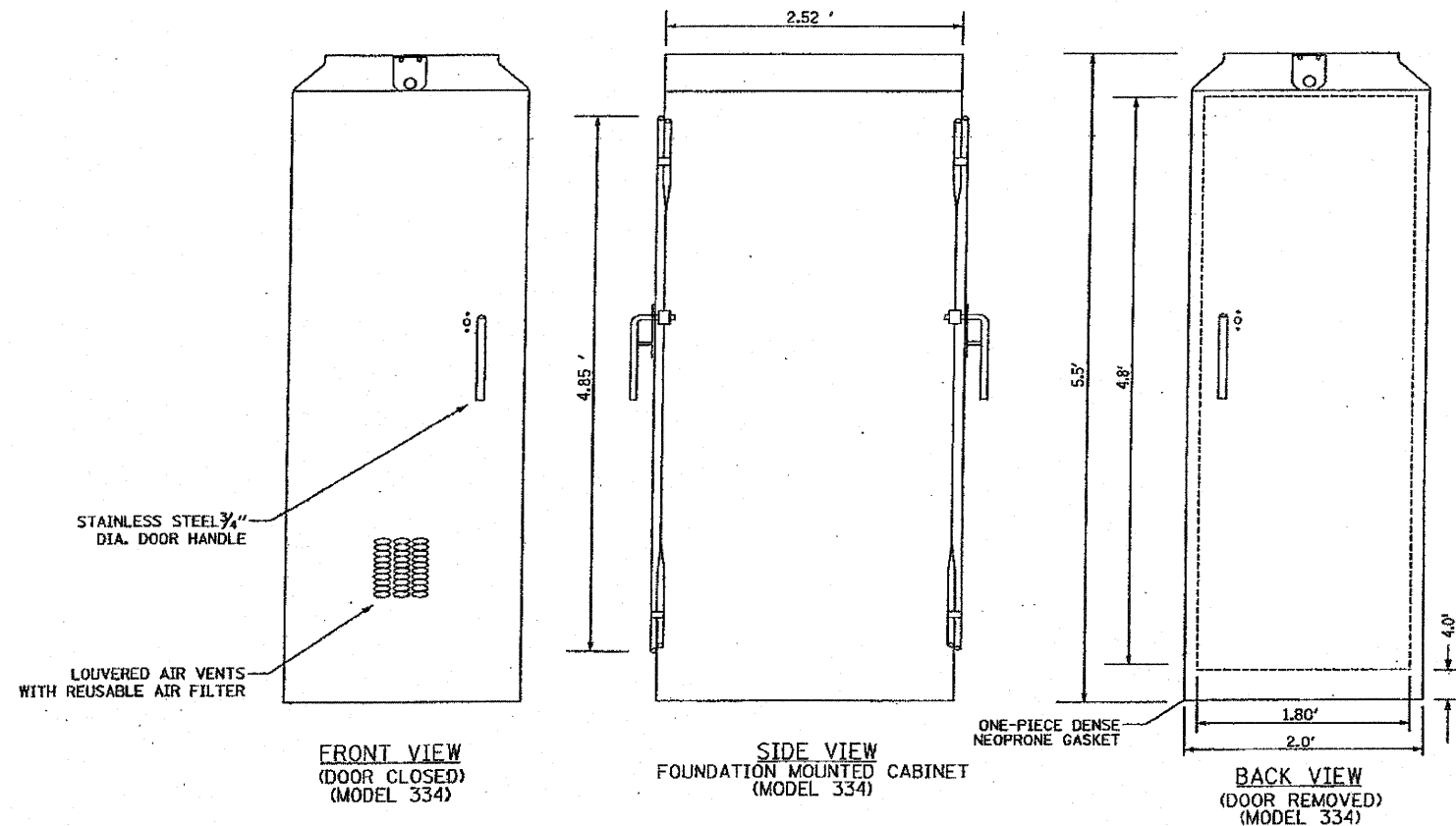
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

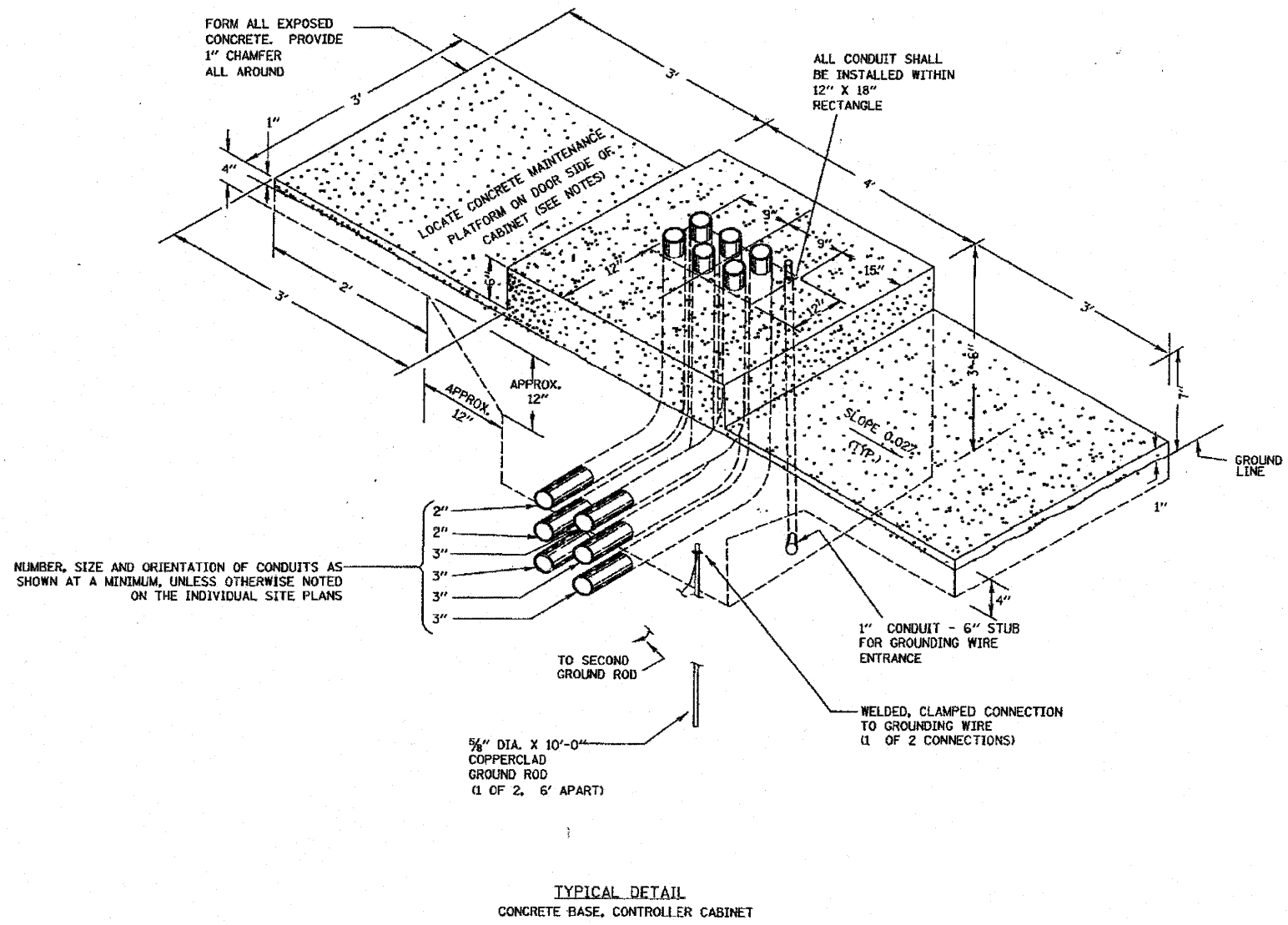
CCTV CABINET TYPE 3

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

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------|-----------|
| | | | 74 | 69 |
| CONTRACT NO. | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



- NOTES**
- REFER TO SPECIAL PROVISIONS FOR CABINET DETAILS AND ADDITIONAL REQUIREMENTS.
 - CABINET ENTRIES INCLUDE VERTICAL ARRANGEMENT FOR MAJOR EQUIPMENT ITEMS ONLY.
 - INSTALL ADDITIONAL ITEMS ON SIDE AND BACK PANELS PER THE SPECIAL PROVISIONS.
 - THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
 - CONCRETE BASE TO BE FORMED AT LEAST 6.0 IN ABOVE THE GROUND SURFACE.
 - CONCRETE BASE MUST BE CAST IN PLACE.
 - ALL WORK INDICATED SHALL BE PAID FOR UNDER ITEM CABINET, MODEL 334 EXCLUSIVE OF THE CONCRETE FOUNDATION.
 - CABINET BOTTOM CONFIGURATION SHALL BE AS DIRECTED BY THE ENGINEER.

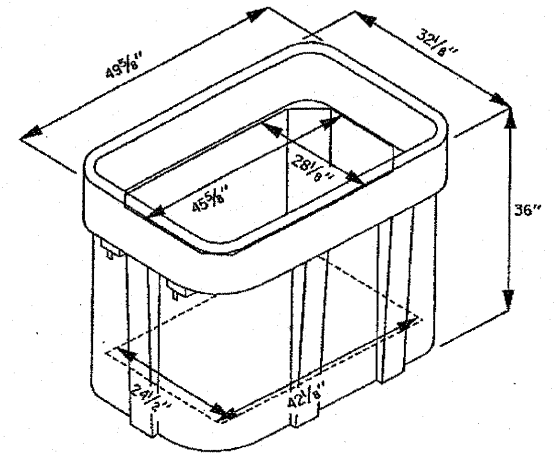
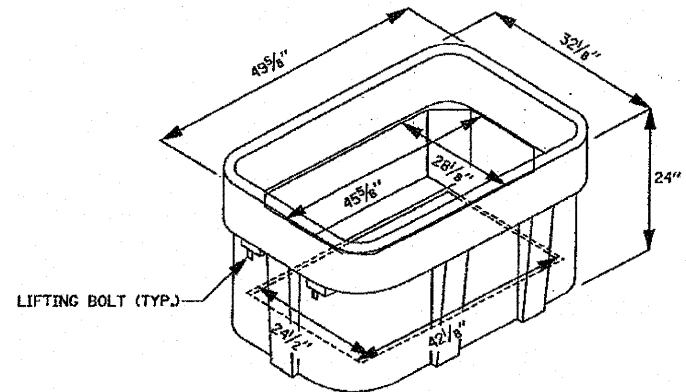
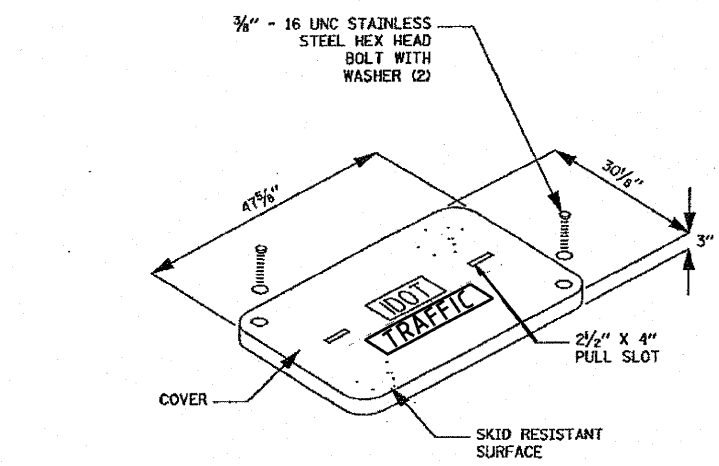


NOTES

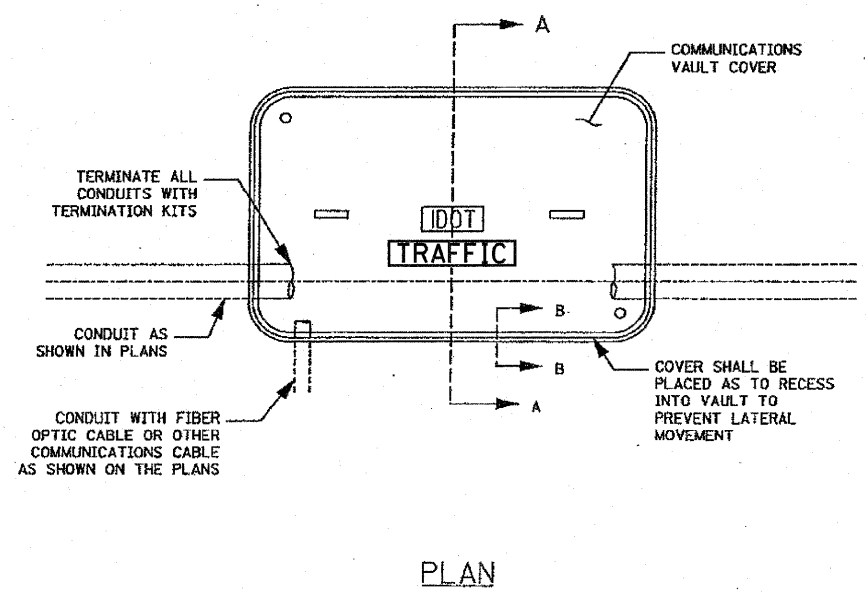
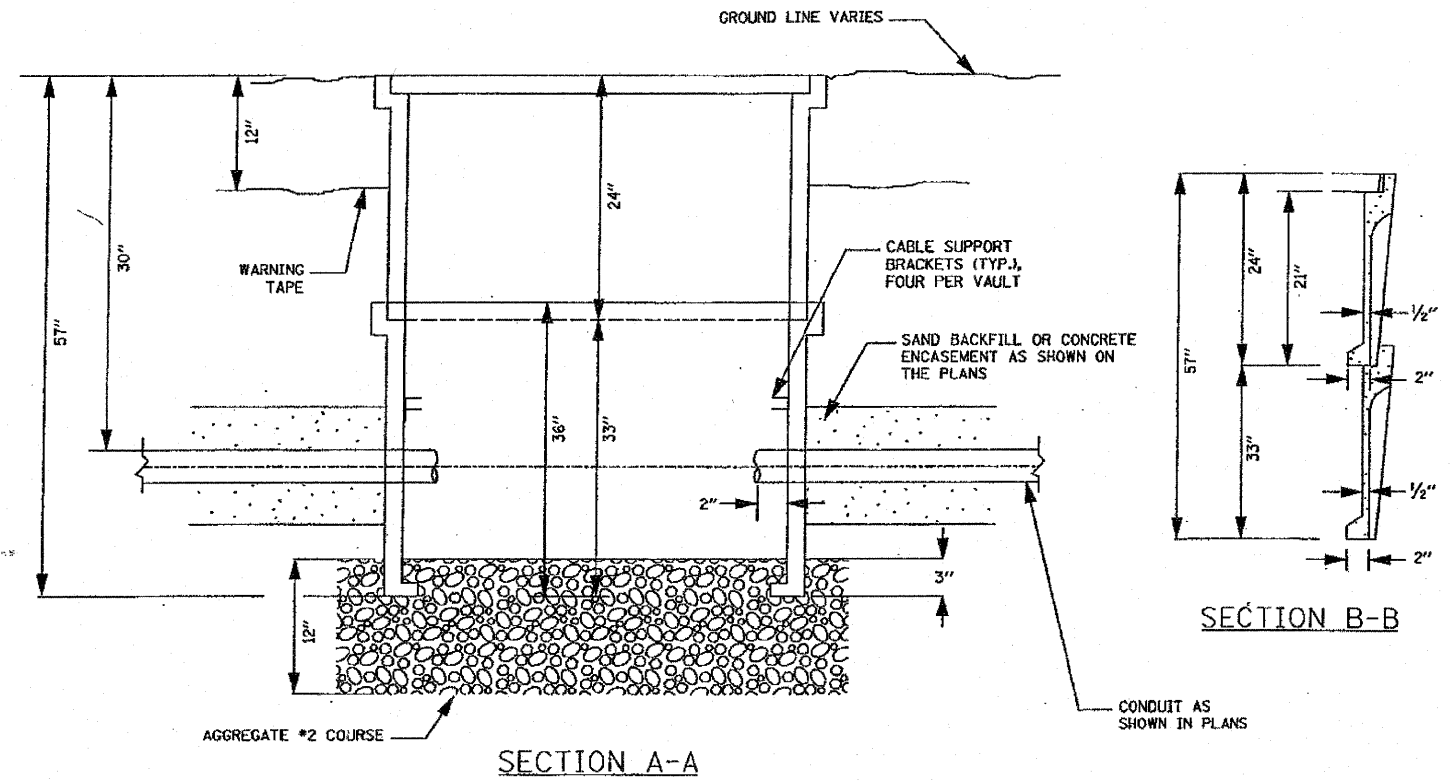
1. INSTALL FOUR 3/4 INCH DIAMETER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE CABINET BASES. THE ANCHOR BOLTS SHALL BE GALVANIZED STEEL AND LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.
2. CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL. PRIOR TO CABINET INSTALLATION. LEVELING OF TOP SURFACES AFTER CONCRETE BASE HAS CURED SHALL ONLY BE ACCOMPLISHED BY GRINDING.
3. MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.
4. CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
5. CONCRETE MAINTENANCE PLATFORM AND CABINET FOUNDATION FOR CABINET SHALL BE A MONOLITHIC POUR.
6. WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.
7. CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 3 INCH.
8. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.
9. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.
10. CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
11. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
12. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
13. ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE BUSHINGS AND ALL NON METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS.

TYPICAL DETAIL
CONCRETE BASE, CONTROLLER CABINET

| | | | | | | | | | | | |
|---|--|------------|-----------|---|--|---|-------------|--------|--------|-------|---------|
| FILE NAME = | USER NAME = wingram | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) CONCRETE FOUNDATION, TYPE 1 DETAIL (FOR CABINET, MODEL 334) | F.A.I | SECTION | COUNTY | TOTAL | SHEET | |
| P:\VP-07-1600-11\Gen\Concrete Foundation, | Type 1 Detail (For Cabinet, Model 334).dgn | DRAWN - | REVISED - | | | 55 | 2009-139 SG | WILL | 74 | 71 | |
| PLOT SCALE = #SCALE# | | CHECKED - | REVISED - | | | CONTRACT NO. 60K06 | | | | | |
| PLOT DATE = 3/18/2010 | | DATE - | REVISED - | | | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | | |
| | | | | | | SCALE: 1" = 50' | SHEET NO. | OF | SHEETS | STA. | TO STA. |



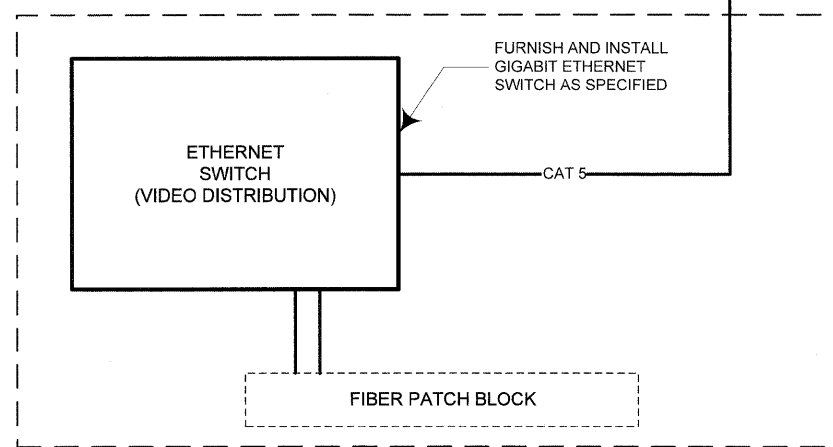
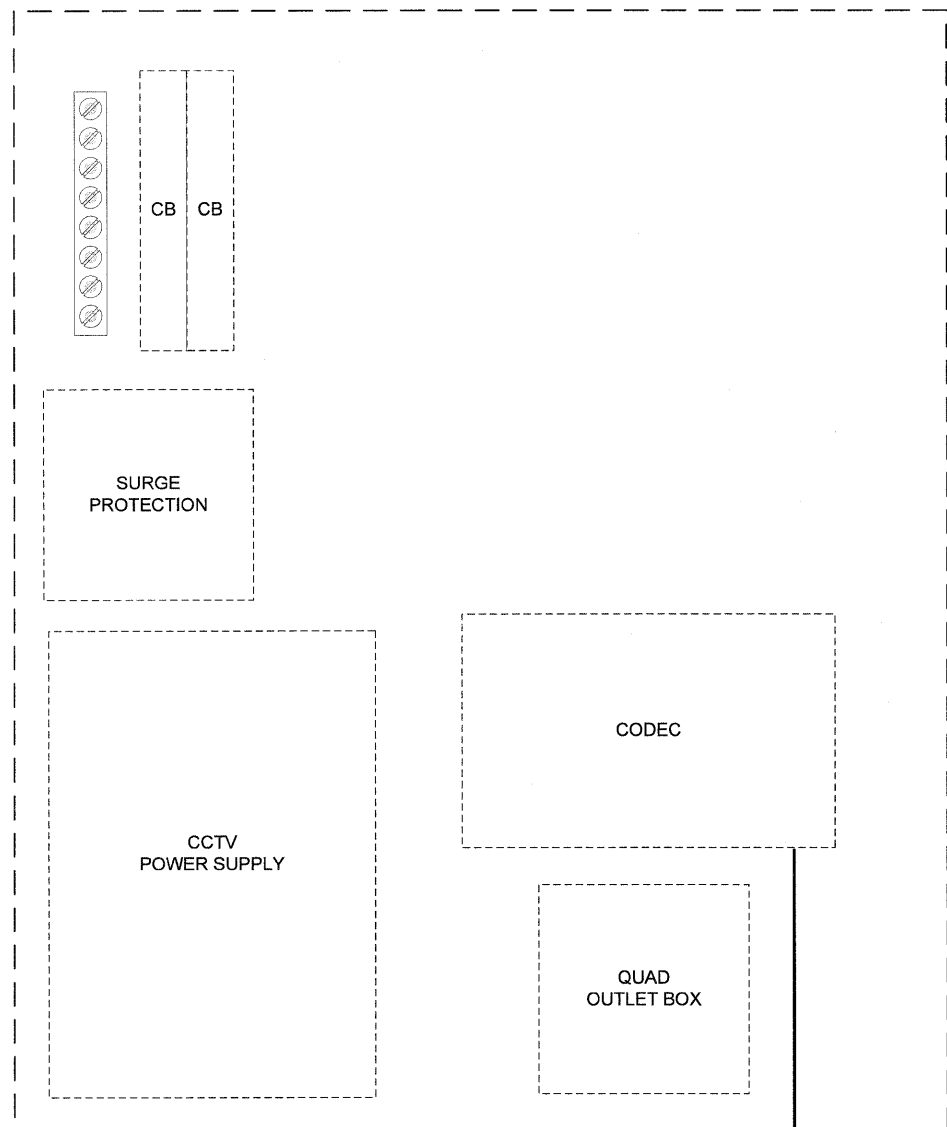
ISOMETRIC



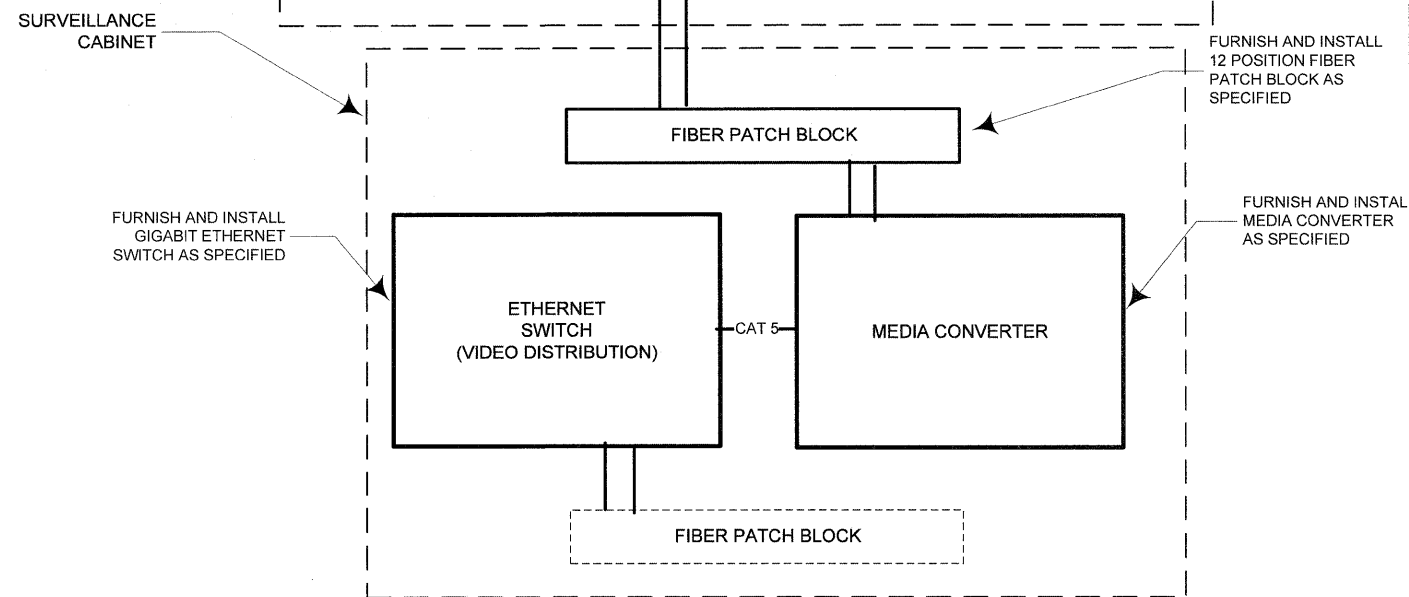
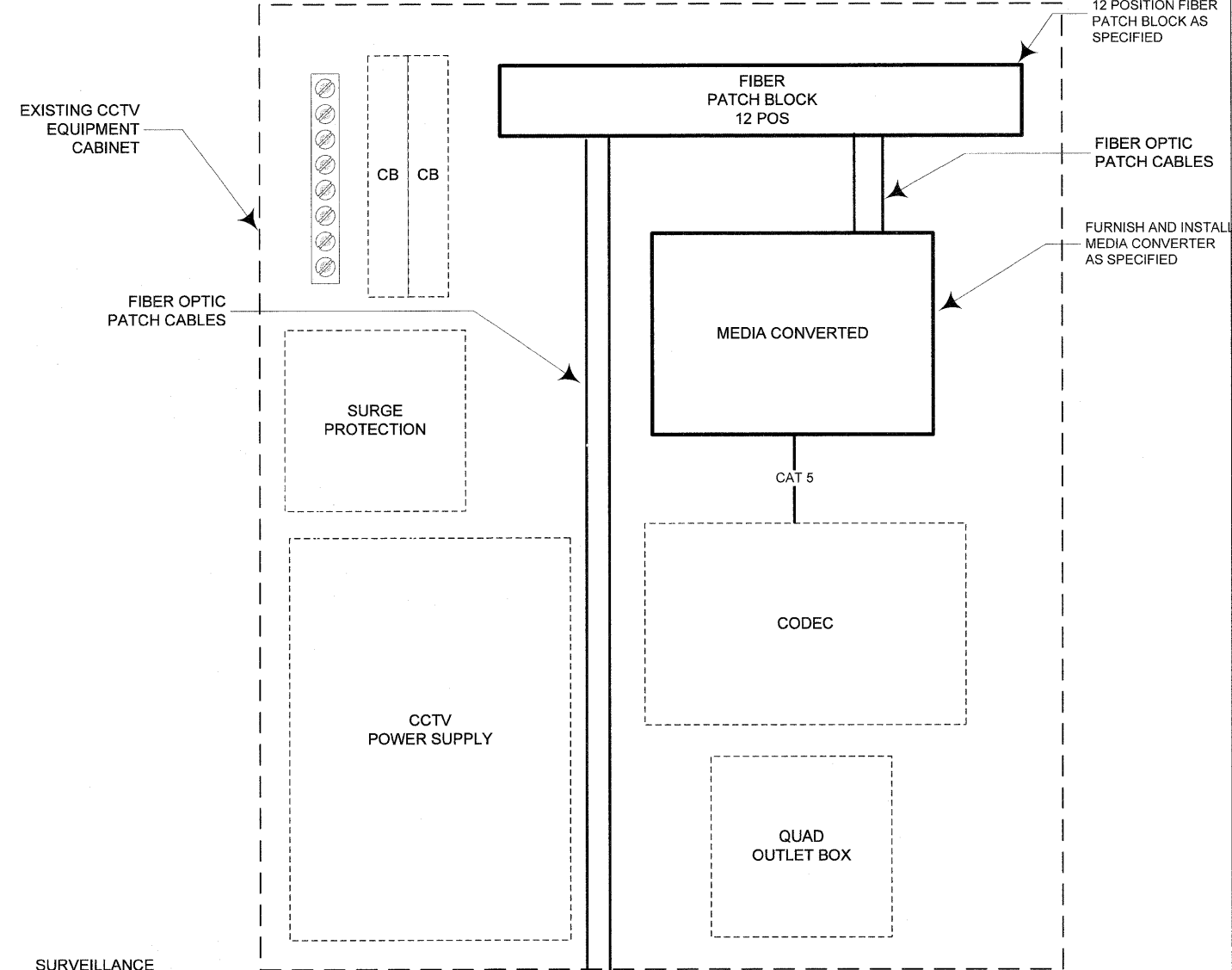
- NOTES:
1. BOX SHALL HAVE AN OPEN BASE.
 2. COVER SHALL WITHSTAND AASHTO H 20 LOADING AND SHALL LOCK.
 3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT.
 4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.

| | | | | | | | | | | | | |
|---|---------------------|------------|---|---|---|---------------------|---------------------|--------------------|-----------------|--------------|--|--|
| FILE NAME = P:\NP-07-1600-11\Gen\Communications Vault Details.dgn | USER NAME = wingram | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FIBER OPTIC CABLE INSTALLATION - I-55 (I-80 TO NAPERVILLE ROAD) COMMUNICATIONS VAULT DETAILS | F.A.J. RTE. 55 | SECTION 2009-139 SG | COUNTY WILL | TOTAL SHEETS 74 | SHEET NO. 72 | | |
| PLOT SCALE = #SCALE# | CHECKED - | REVISED - | SCALE: 1" = 50' | | | SHEET NO. OF SHEETS | STA. TO STA. | CONTRACT NO. GOKOG | | | | |
| PLOT DATE = 3/18/2010 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | | | |
| | | | | | | | | | | | | |

MODIFICATION OF EXISTING CCTV INSTALLATION FOR FIBER OPTIC COMMUNICATIONS. ETHERNET



MODIFICATION OF EXISTING CCTV INSTALLATION FOR FIBER OPTIC COMMUNICATIONS. FIBER



| | | | |
|-----------|------------|----------|---------|
| FILE NAME | USER NAME | DESIGNED | REVISED |
| | | DRAWN | REVISED |
| | PLOT SCALE | CHECKED | REVISED |
| | PLOT DATE | DATE | REVISED |

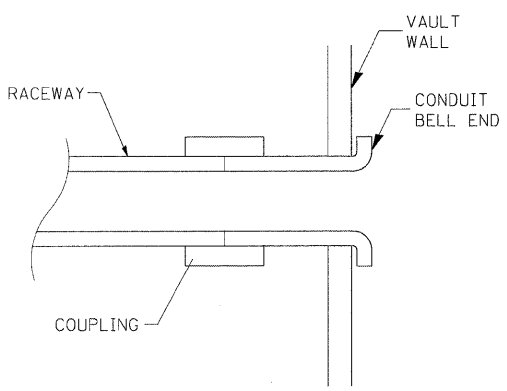
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV CAMERA EXPANSION - FAI 55 (LORENZO RD. TO I-80)
MODIFICATION OF EXIST. CCTV INST. FOR FIBER OPTIC COMMUNICATIONS**

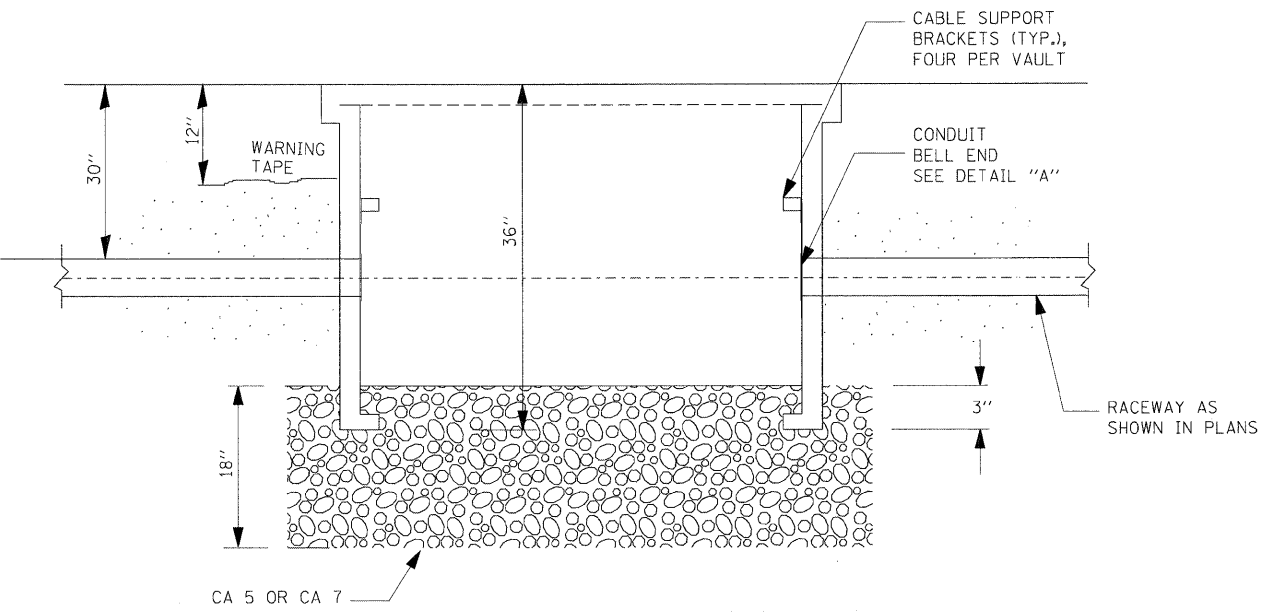
SCALE: NONE SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

| | | | | |
|---------------------------|-------------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 55 | 2009-139 SG | WILL | | 73 |
| CONTRACT NO. | | | 60K06 | |
| ILLINOIS FED. AID PROJECT | | | | |

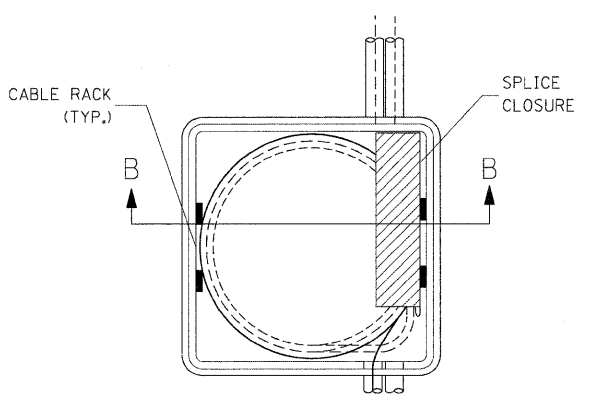
| COMMUNICATIONS VAULT LOAD RATINGS | | | |
|-----------------------------------|-----------|-------------|-------------|
| COMPONENT | ANSI TIER | LOADING | |
| | | DESIGN | TEST |
| BOX | 22 | 22,500 lbs. | 37,750 lbs. |
| COVER | 22 | 22,500 lbs. | 37,750 lbs. |



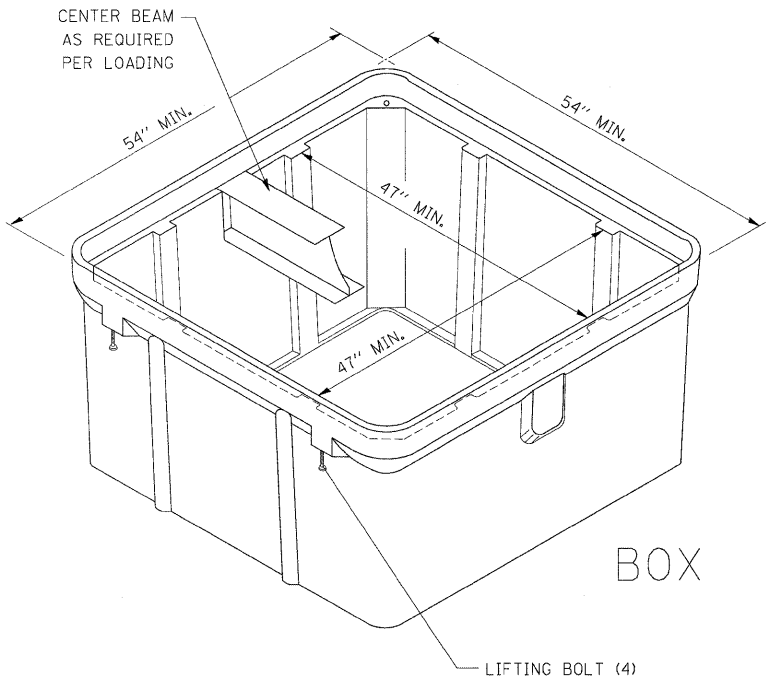
DETAIL A



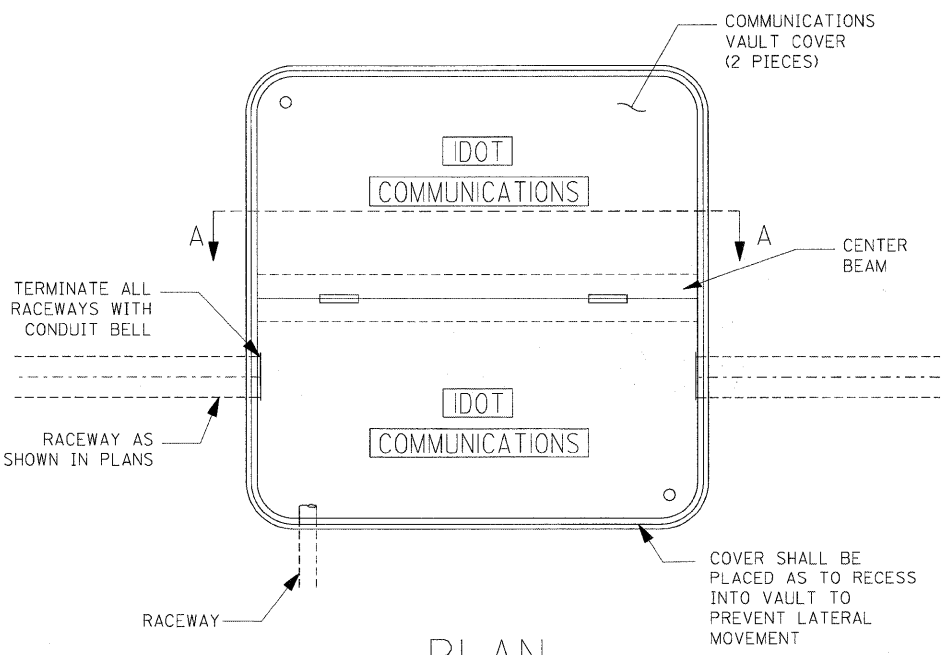
SECTION A-A



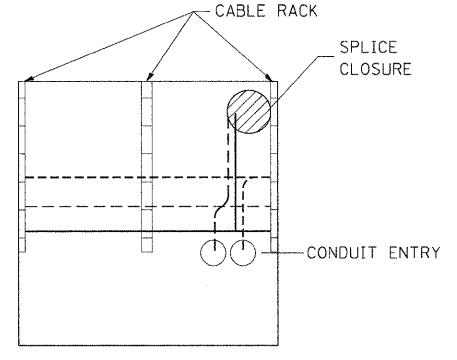
TOP VIEW



ISOMETRIC



PLAN

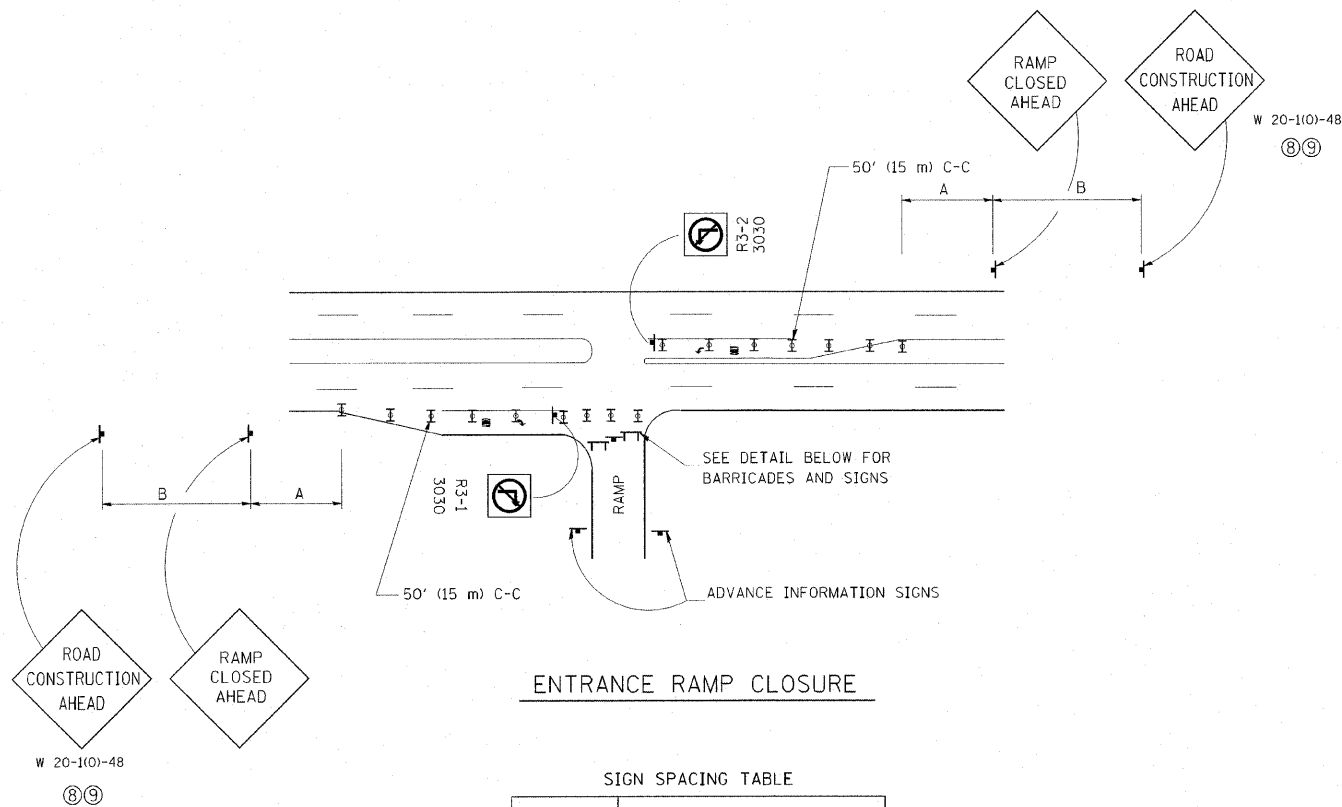


SECTION B-B

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
4. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

| | | | | | | | | | | | | |
|---|-------------------|-----------------------|-----------|---|---|--|--|-------------|---------|--------|----------------------------------|-----------|
| FILE NAME = | USER NAME = lryse | DESIGNED - R. Tomsons | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | COMMUNICATIONS VAULT, COMPOSITE CONCRETE | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwork\pwork\lryse\d0189315\be705.dgn | | DRAWN - | REVISED - | | | | | SCALE: NONE | | | SHEET NO. OF SHEETS STA. TO STA. | |
| PLOT SCALE = 50.0000' / 1" | | CHECKED - | REVISED - | | CONTRACT NO. 60606 | | | | | | | |
| PLOT DATE = 4/5/2010 | | DATE - 03-22-10 | REVISED - | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | | | | |



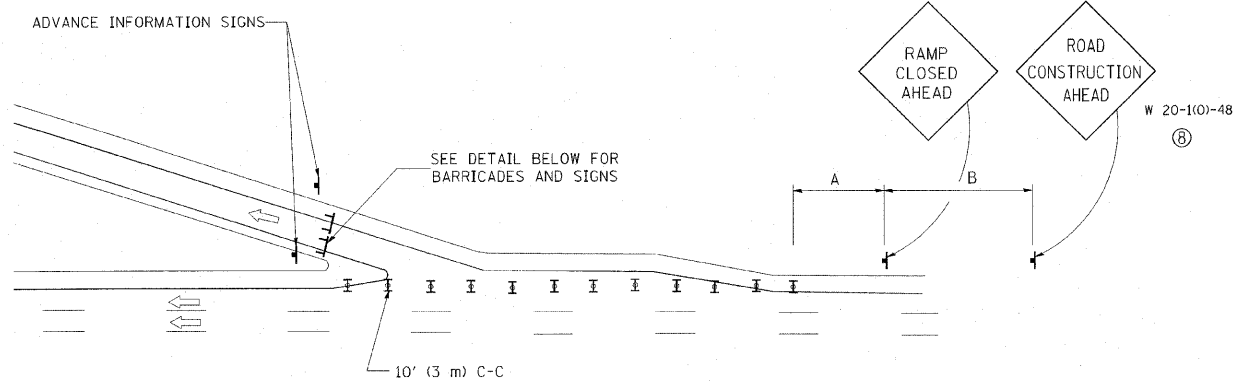
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

| FACILITY | DISTANCE BETWEEN SIGNS | |
|----------------------|------------------------|---------------|
| | A | B |
| EXPRESSWAY >24 HOURS | 1000' (300 m) | 1500' (450 m) |
| EXPRESSWAY ≤24 HOURS | 500' (150 m) | 500' (150 m) |
| ARTERIAL ≥45 MPH | 350' (100 m) | 350' (100 m) |
| ARTERIAL <45 MPH | 150' (45 m) | 150' (45 m) |

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

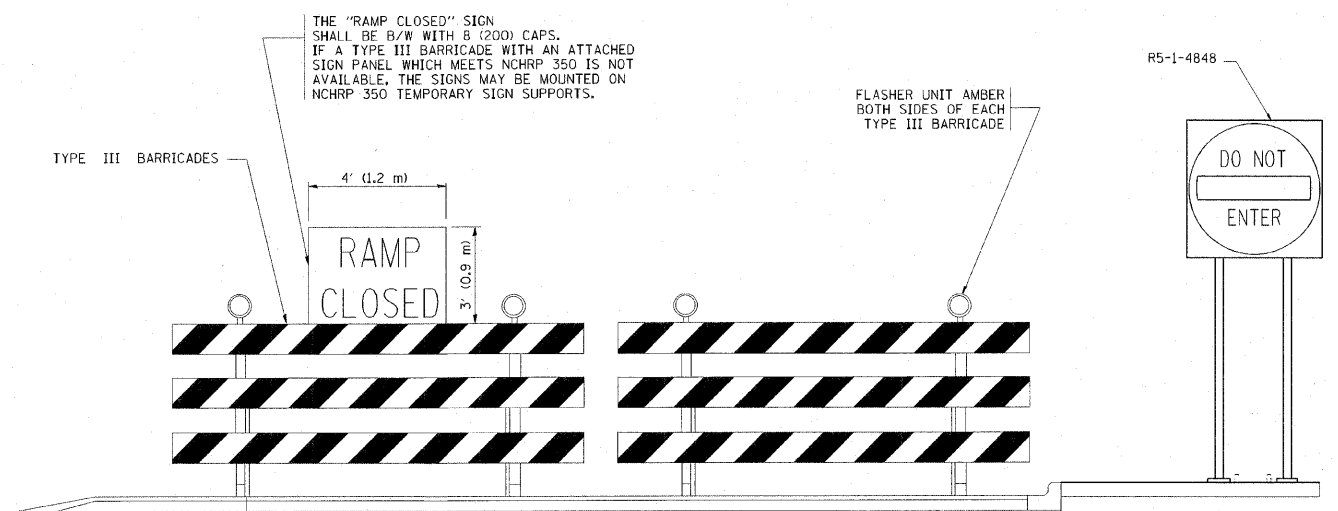
W 20-110-48 (8)9



EXIT RAMP CLOSURE

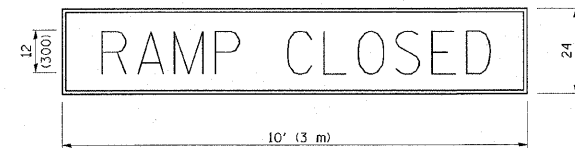
SYMBOLS

- I TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⌊ TYPE III BARRICADE WITH FLASHING LIGHT



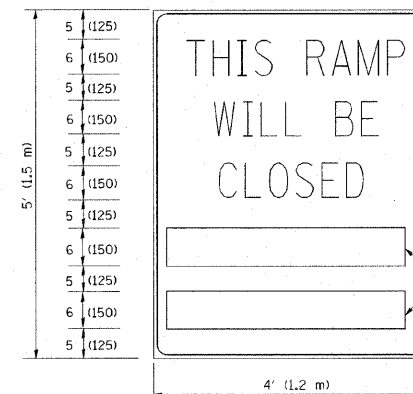
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND

1/2 (12) BORDER

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- 1 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- 2 STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- 5 THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- 6 AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- 7 THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- 8 ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- 9 ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

| | | | |
|--------------------------------------|----------------------------|----------------|-------------------------|
| FILE NAME = W:\dststd\22x34\to88.dgn | USER NAME = jaysa | DESIGNED - DWS | REVISED - DWS/JAF 12-02 |
| | | DRAWN - | REVISED - JAF 02-06 |
| | PLOT SCALE = 50.000' / IN. | CHECKED - | REVISED - SPB 01-07 |
| | PLOT DATE = 1/26/2010 | DATE - 02-83 | REVISED - SPB 12-09 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FREWAY ENTRANCE AND EXIST RAMP
CLOSURE DETAILS**

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

| | | | | |
|---|---------|--------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | TC-08 | | | 74A |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | CONTRACT NO. | | |

