

PART OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 4 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

LEGEND

SECTION CORNER (Diagram: 9 10 15 16)

QUARTER SECTION CORNER (Diagram: 16)

SECTION / QUARTER SECTION LINE (Diagram: Dashed line)

PLATTED LOT LINES (Diagram: Solid line)

PROPERTY (DEED) LINE (Diagram: Solid line with 'P')

APL APPARENT PROPERTY LINE (Diagram: Solid line with 'APL')

EXISTING CENTERLINE (Diagram: Dashed line with 'C')

PROPOSED CENTERLINE (Diagram: Dashed line with 'P')

EXISTING RIGHT OF WAY LINE (Diagram: Dashed line with 'R')

PROPOSED RIGHT OF WAY LINE (Diagram: Dashed line with 'P')

EXISTING EASEMENT (Diagram: Dashed line with 'E')

PROPOSED EASEMENT (Diagram: Dashed line with 'P')

EXISTING ACCESS CONTROL LINE (Diagram: Dashed line with 'AC')

PROPOSED ACCESS CONTROL LINE (Diagram: Dashed line with 'P')

MEASURED DIMENSION (Diagram: Solid line with 'M')

COMPUTED DIMENSION (Diagram: Solid line with 'C')

RECORDED DIMENSION (Diagram: Solid line with 'R')

EXISTING BUILDING (Diagram: Hatched rectangle)

IRON PIPE OR ROD FOUND (Symbol: Circle with dot)

CUT CROSS FOUND OR SET (Symbol: Circle with cross)

MAG NAIL SET (Symbol: Circle with cross)

5/8" REBAR SET (Symbol: Circle with dot)

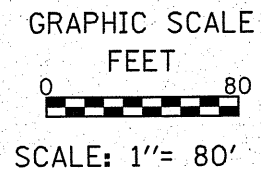
STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER. (Symbol: Square with 'S')

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8" IRON METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER. (Symbol: Square with 'M')

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS) (Symbol: Circle with 'M')

RIGHT OF WAY STAKING PROPOSED TO BE SET (Symbol: Square with 'R')

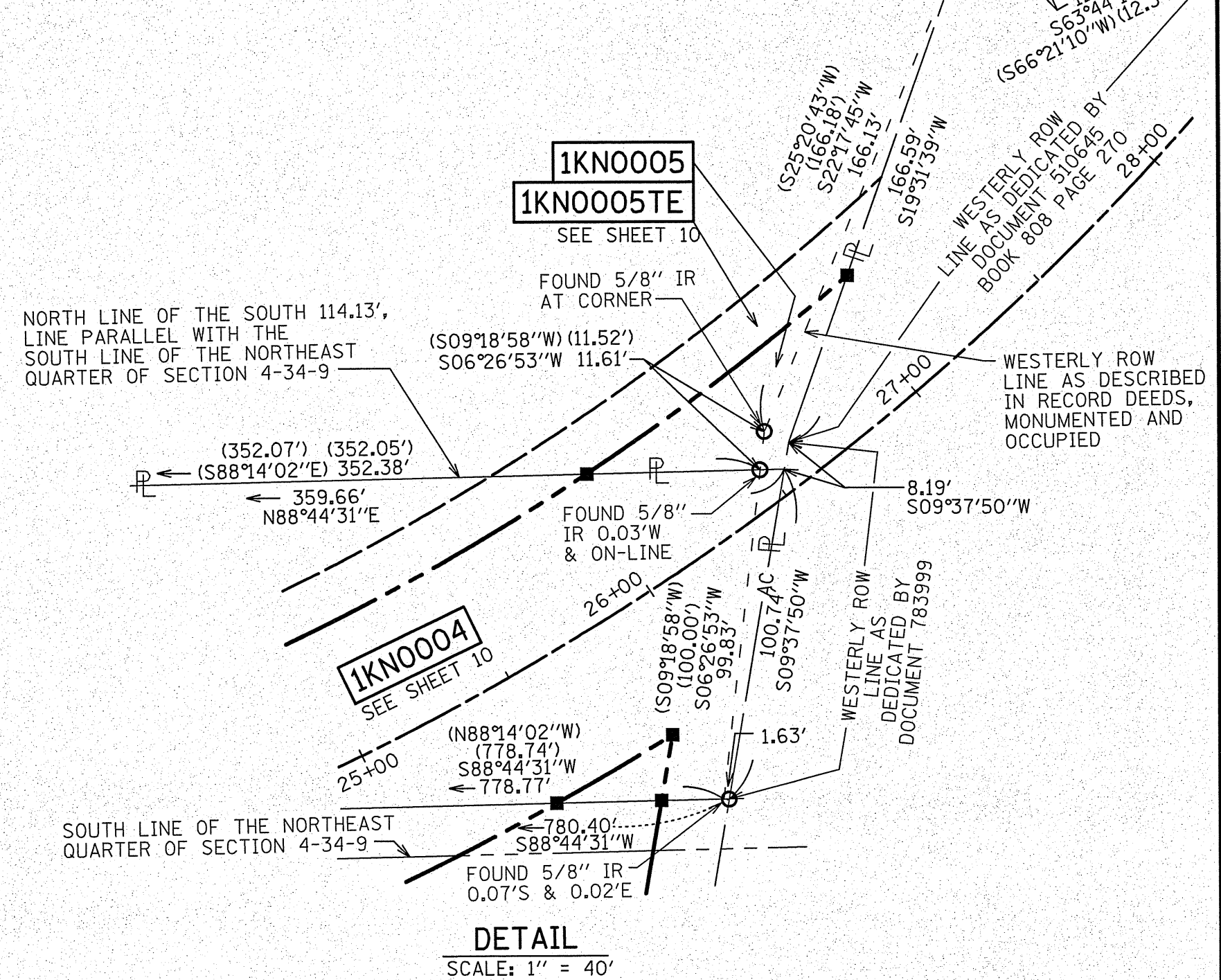
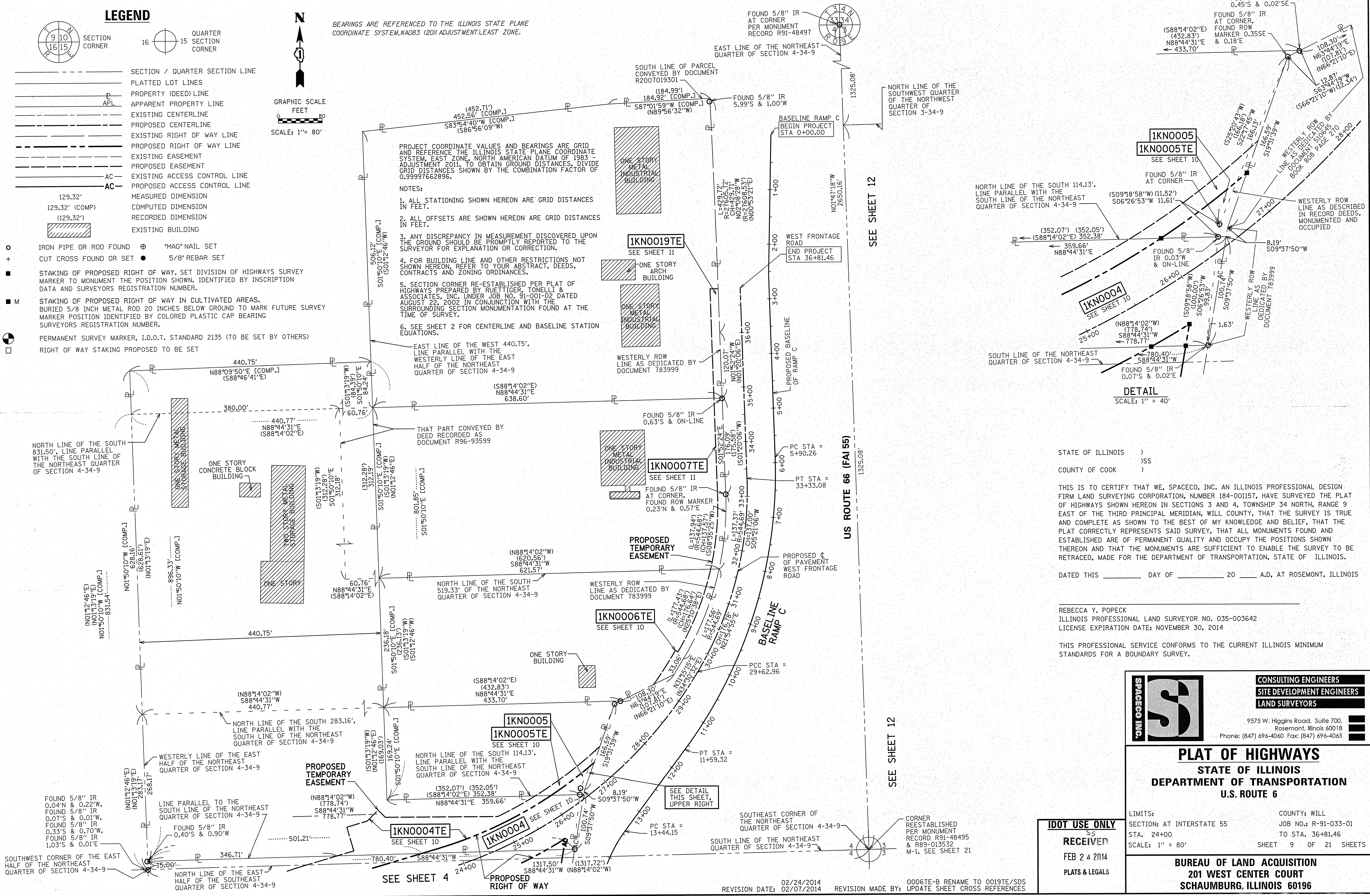
BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.



PROJECT COORDINATE VALUES AND BEARINGS ARE GRID AND REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 ADJUSTMENT 2011, TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997662896.

NOTES:

- ALL STATIONING SHOWN HEREON ARE GRID DISTANCES IN FEET.
- ALL OFFSETS ARE SHOWN HEREON ARE GRID DISTANCES IN FEET.
- ANY DISCREPANCY IN MEASUREMENT DISCOVERED UPON THE GROUND SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.
- FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR ABSTRACT, DEEDS, CONTRACTS AND ZONING ORDINANCES.
- SECTION CORNER RE-ESTABLISHED PER PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOCIATES, INC. UNDER JOB NO. 91-001-02 DATED AUGUST 22, 2002 IN CONJUNCTION WITH THE SURROUNDING SECTION MONUMENTATION FOUND AT THE TIME OF SURVEY.
- SEE SHEET 2 FOR CENTERLINE AND BASELINE STATION EQUATIONS.



STATE OF ILLINOIS)
 COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 4, TOWNSHIP 34 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20__ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

SPACECO INC.

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: COUNTY: WILL
 SECTION: AT INTERSTATE 55 JOB NO.: R-91-033-01
 STA. 24+00 TO STA. 36+81.46
 SCALE: 1" = 80' SHEET 9 OF 21 SHEETS

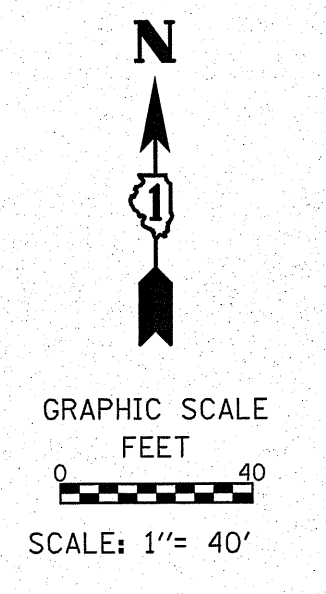
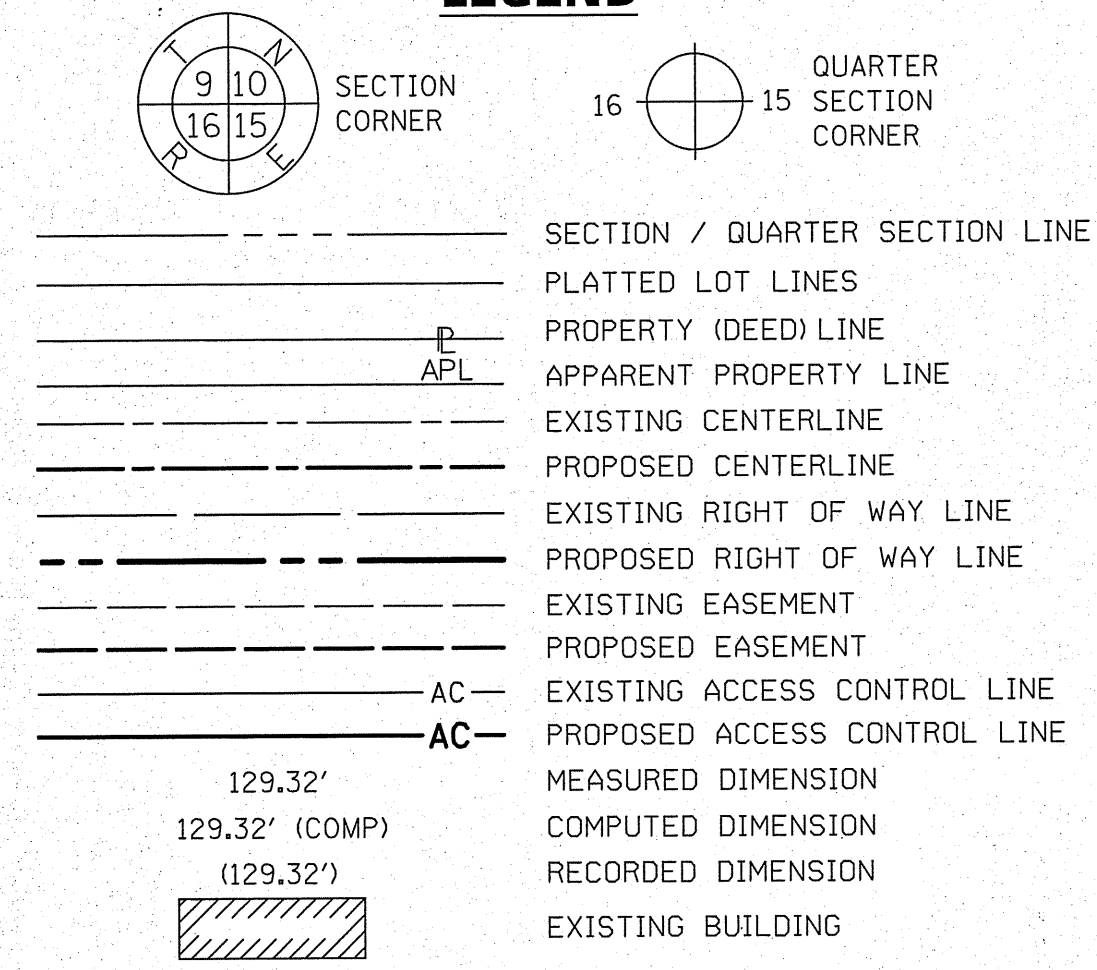
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

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 FEB 24 2014
 PLATS & LEGALS

02/24/2014 REVISION DATE: 02/07/2014 REVISION MADE BY: 0006TE-B RENAME TO 0019TE/SDS UPDATE SHEET CROSS REFERENCES

PART OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 4 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

LEGEND



- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1KN0004	9.886	0.336	0	9.550	0.372	04-10-04-208-023
1KN0004TE						
1KN0005	1.520	0.036	0	1.484	0.042	04-10-04-208-022
1KN0005TE						
1KN0006TE	3.060	0	0	3.060	0.084	04-10-04-208-020

STATE OF ILLINOIS)
) SS
 COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-00157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 4, TOWNSHIP 34 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20 ____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

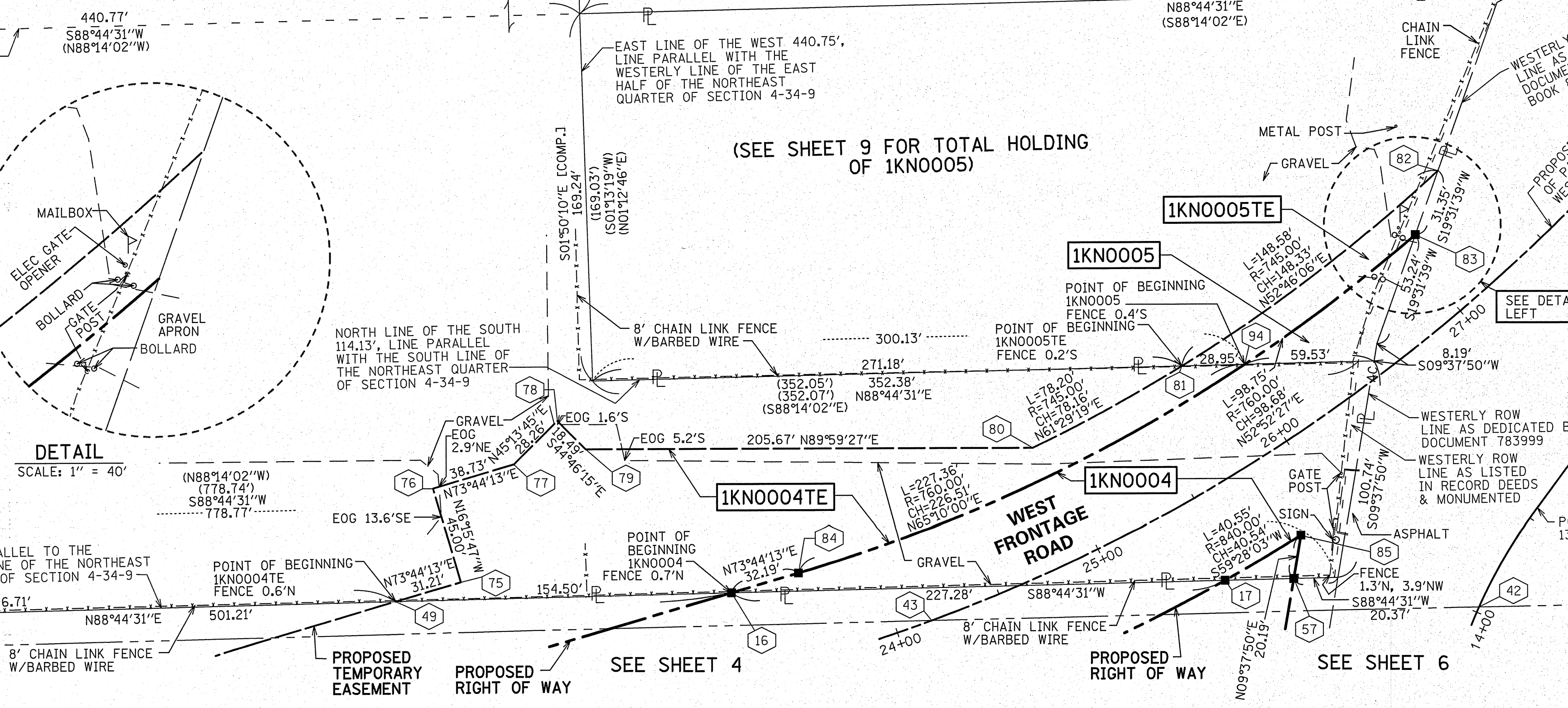
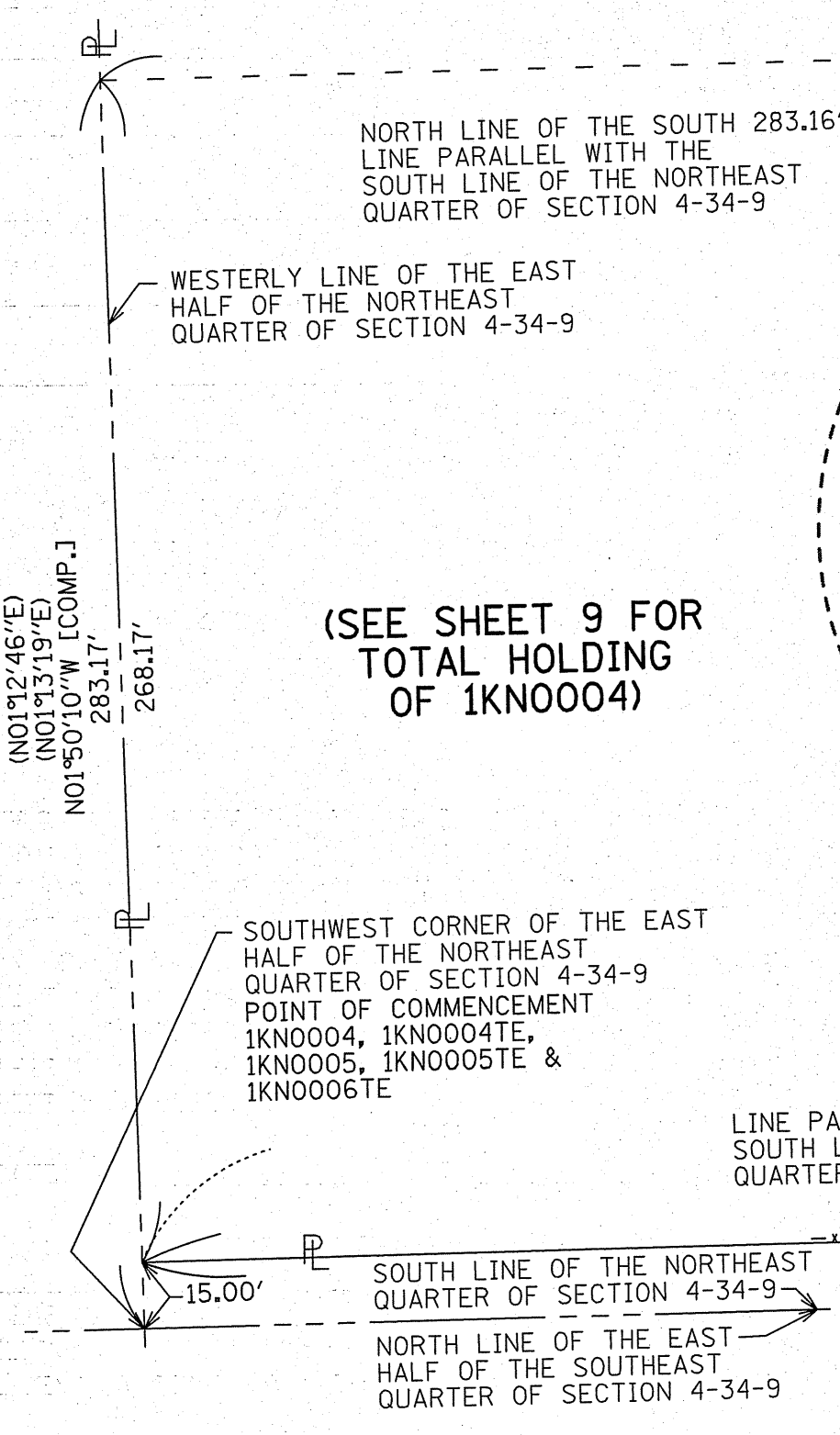
NORTH LINE OF THE SOUTH 519.33' OF THE NORTHEAST QUARTER OF SECTION 4-34-9

COORDINATE/STATION TABLE
 ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset
16	1744554.11	1021152.04	23+31.88	40.00 L
17	1744559.10	1021379.26	25+44.00	40.00 R
42	1744546.66	1021496.09	13+97.37	0.00 L
43	1744541.13	1021244.18	24+16.75	0.00 R
49	1744550.72	1020997.58	21+82.65	80.00 L
57	1744559.79	1021410.80	25+70.09	55.21 R
75	1744559.46	1021027.54	22+13.86	80.00 L
76	1744602.66	1021014.94	22+13.86	125.00 L
77	1744613.50	1021052.12	22+52.59	125.00 L
78	1744633.41	1021072.18	22+77.43	138.49 L
79	1744620.28	1021085.20	22+86.26	122.24 L
80	1744620.31	1021290.88	24+93.10	55.00 L
81	1744657.62	1021359.56	25+77.07	55.00 L
82	1744747.37	1021477.66	27+36.62	55.00 L
83	1744717.81	1021467.18	27+07.34	40.00 L
84	1744563.12	1021182.93	23+64.07	40.00 L
85	1744579.70	1021414.18	25+82.61	40.00 R
86	1744859.87	1021576.45	28+97.66	55.00 L
87	1744922.18	1021616.42	29+77.43	54.97 L
88	1744919.46	1021621.15	29+77.40	49.51 L
89	1745070.19	1021681.41	31+53.66	49.54 L
94	1744658.25	1021388.50	26+03.40	40.00 L

PROJECT COORDINATE VALUES AND BEARINGS ARE GRID AND REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 - ADJUSTMENT 2011. TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997662896.

- NOTES:
1. ALL STATIONING SHOWN HEREON ARE GRID DISTANCES IN FEET.
 2. ALL OFFSETS ARE SHOWN HEREON ARE GRID DISTANCES IN FEET.
 3. ANY DISCREPANCY IN MEASUREMENT DISCOVERED SURVEYOR THE GROUND SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.
 4. FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR ABSTRACT, DEEDS, CONTRACTS AND ZONING ORDINANCES.
 5. SEE SHEET 2 FOR CENTERLINE AND BASELINE STATION EQUATIONS.



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SPACECO INC.

CONSULTING ENGINEERS
 SITE DEVELOPMENT ENGINEERS
 LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 6

LIMITS: COUNTY: WILL
 SECTION: AT INTERSTATE 55 JOB NO.: R-91-033-01
 STA. 24+00 TO STA. 31+53.66
 SCALE: 1" = 40' SHEET 10 OF 21 SHEETS

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 02/24/2014 0006TE-B RENAME TO 0019TE/SDS
 02/07/2014 REVISION MADE BY: SDS

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PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
1KN0007TE	4.559	0	0	4.559	0.108		04-10-04-208-021
1KN0019TE	7.786	0	0	7.786	0.069		04-10-04-208-020

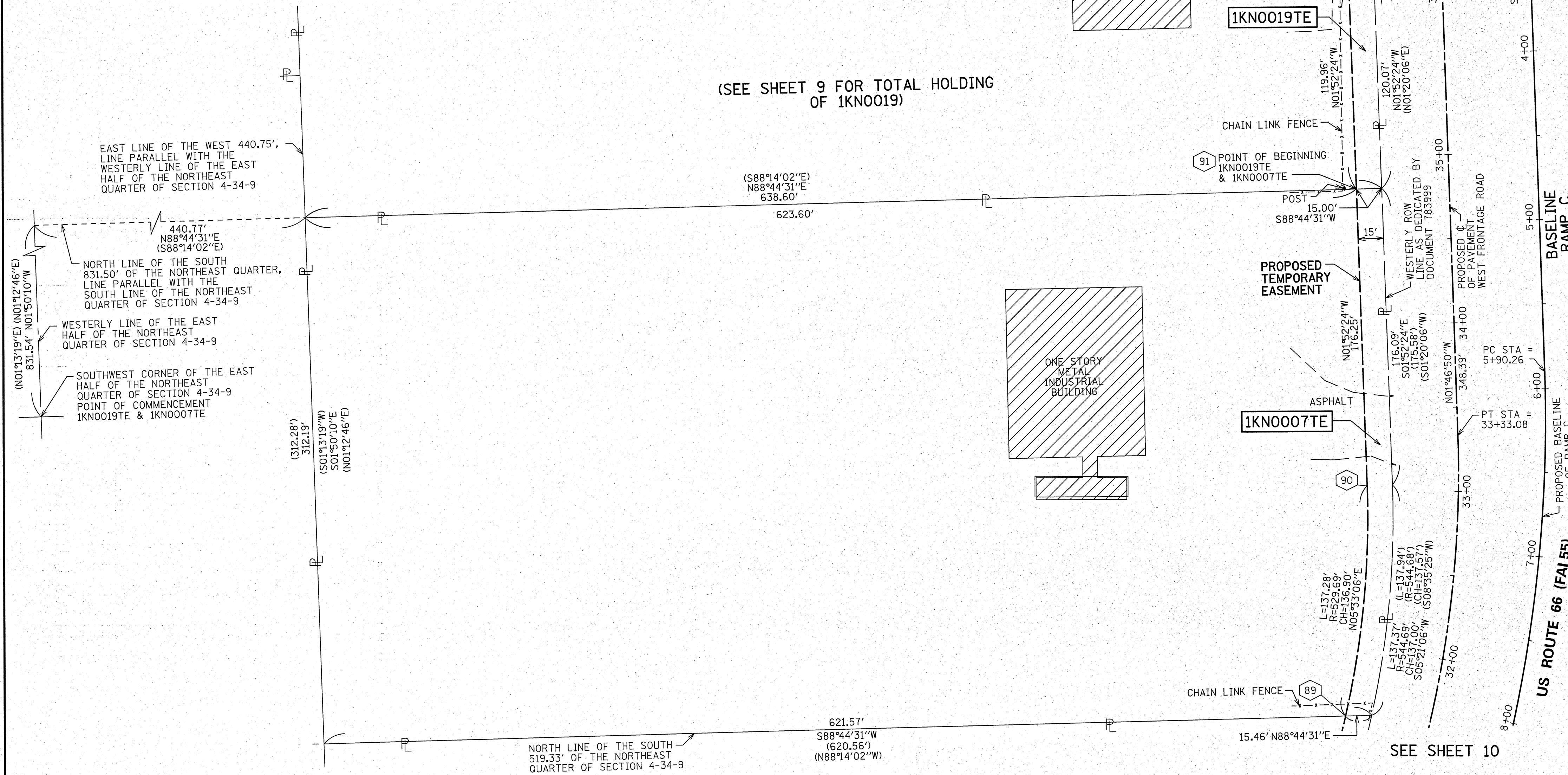
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COORDINATE/STATION TABLE
ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset
89	1745070.19	1021681.41	31+53.66	49.54 L
90	1745206.44	1021694.66	33+02.66	54.15 L
91	1745382.60	1021688.90	34+81.45	55.09 L
92	1745582.50	1021682.49	36+81.46	55.28 L
93	1745582.83	1021697.49	36+81.33	40.28 L
95	1745502.46	1021684.97	36+01.41	55.28 L

(SEE SHEET 9 FOR TOTAL HOLDING OF 1KN0019)



LEGEND

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- ⊕ *MAG* NAIL SET
- ⊕ CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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- RIGHT OF WAY STAKING PROPOSED TO BE SET

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)SS
COUNTY OF COOK)

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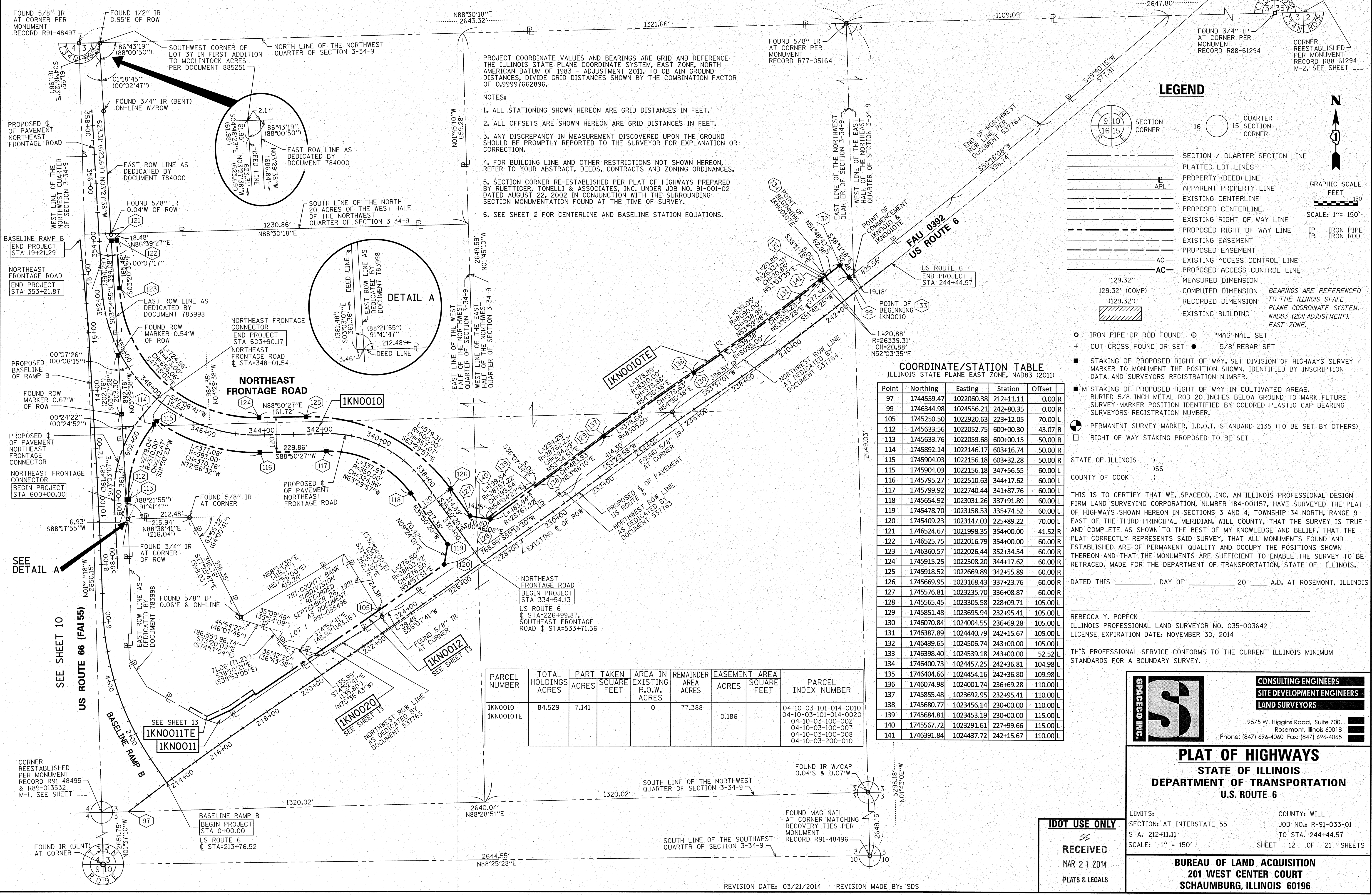
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: COUNTY: WILL
SECTION: AT INTERSTATE 55 JOB NO.: R-91-033-01
STA. 31+53.66 TO STA. 36+81.46
SCALE: 1" = 40' SHEET 11 OF 21 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

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PART OF THE NORTH HALF OF SECTION 3 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.



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6. SEE SHEET 2 FOR CENTERLINE AND BASELINE STATION EQUATIONS.

LEGEND

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

GRAPHIC SCALE
0 50 100 FEET
SCALE: 1" = 150'

COORDINATE/STATION TABLE
ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset
97	1744559.47	1022060.38	212+11.11	0.00 R
99	1746344.98	1024556.21	242+80.35	0.00 R
105	1745250.50	1022920.63	223+12.05	70.00 L
112	1745633.56	1022052.75	600+00.30	43.07 R
113	1745633.76	1022059.68	600+00.15	50.00 R
114	1745892.14	1022146.17	603+16.74	50.00 R
115	1745904.03	1022156.18	603+32.28	50.00 R
115	1745904.03	1022156.18	347+56.55	60.00 L
116	1745795.27	1022510.63	344+17.62	60.00 L
117	1745799.92	1022740.44	341+87.76	60.00 L
118	1745654.92	1023031.26	337+91.89	60.00 L
119	1745478.70	1023158.53	335+74.52	60.00 L
120	1745409.23	1023147.03	225+89.22	70.00 L
121	1746524.67	1021998.35	354+00.00	41.52 R
122	1746525.75	1022016.79	354+00.00	60.00 R
123	1746360.57	1022026.44	352+34.54	60.00 R
124	1745915.25	1022508.20	344+17.62	60.00 R
125	1745918.52	1022669.89	342+55.89	60.00 R
126	1745669.95	1023168.43	337+23.76	60.00 R
127	1745576.81	1023235.70	336+08.87	60.00 R
128	1745565.45	1023305.58	228+09.71	105.00 L
129	1745851.48	1023695.94	232+95.41	105.00 L
130	1746070.84	1024004.55	236+69.28	110.00 L
131	1746387.89	1024440.79	242+15.67	105.00 L
132	1746439.65	1024506.74	243+00.00	105.00 L
133	1746398.40	1024539.18	243+00.00	52.52 L
134	1746400.73	1024457.25	242+36.81	104.98 L
135	1746404.66	1024454.16	242+36.80	109.98 L
136	1746074.98	1024001.74	236+69.28	110.00 L
137	1745855.48	1023692.95	232+95.41	110.00 L
138	1745680.77	1023456.14	230+00.00	110.00 L
139	1745684.81	1023453.19	230+00.00	115.00 L
140	1745567.72	1023291.61	227+99.66	115.00 L
141	1746391.84	1024437.72	242+15.67	110.00 L

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART ACRES	TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
1KN0010	84.529	7.141		0	77.388	0.186		04-10-03-101-014-0010
1KN0010TE								04-10-03-101-014-0020
								04-10-03-100-002
								04-10-03-100-001
								04-10-03-100-008
								04-10-03-200-010

RECEIVED
MAR 21 2014
PLATS & LEGALS

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS

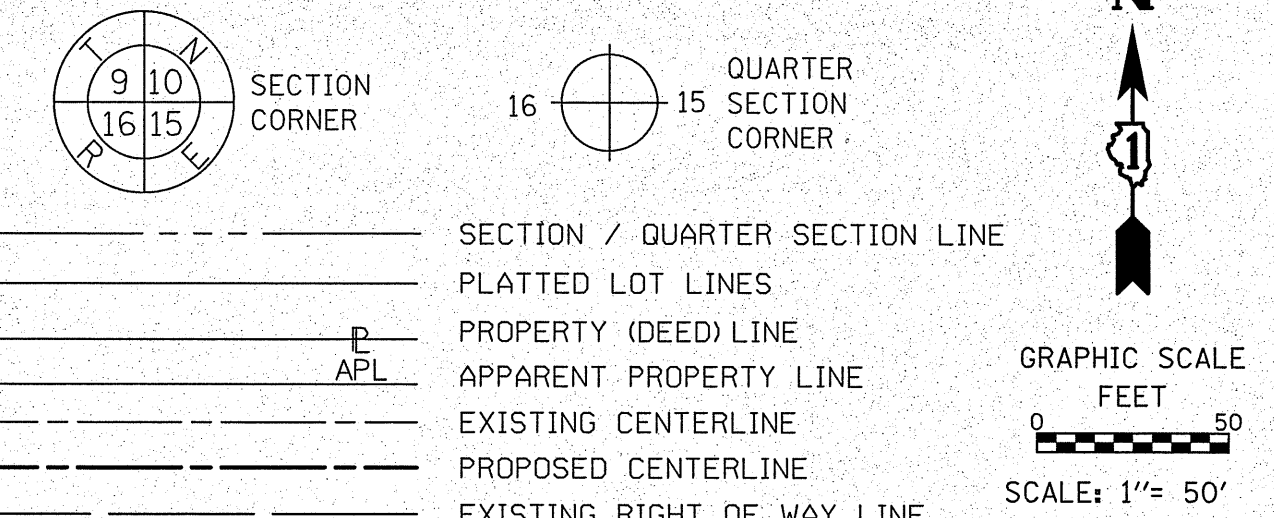
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: SECTION: AT INTERSTATE 55 COUNTY: WILL
STA. 212+11.11 JOB NO.: R-91-033-01
SCALE: 1" = 150' TO STA. 244+44.57
SHEET 12 OF 21 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PART OF THE NORTHWEST QUARTER OF SECTION 3 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

LEGEND



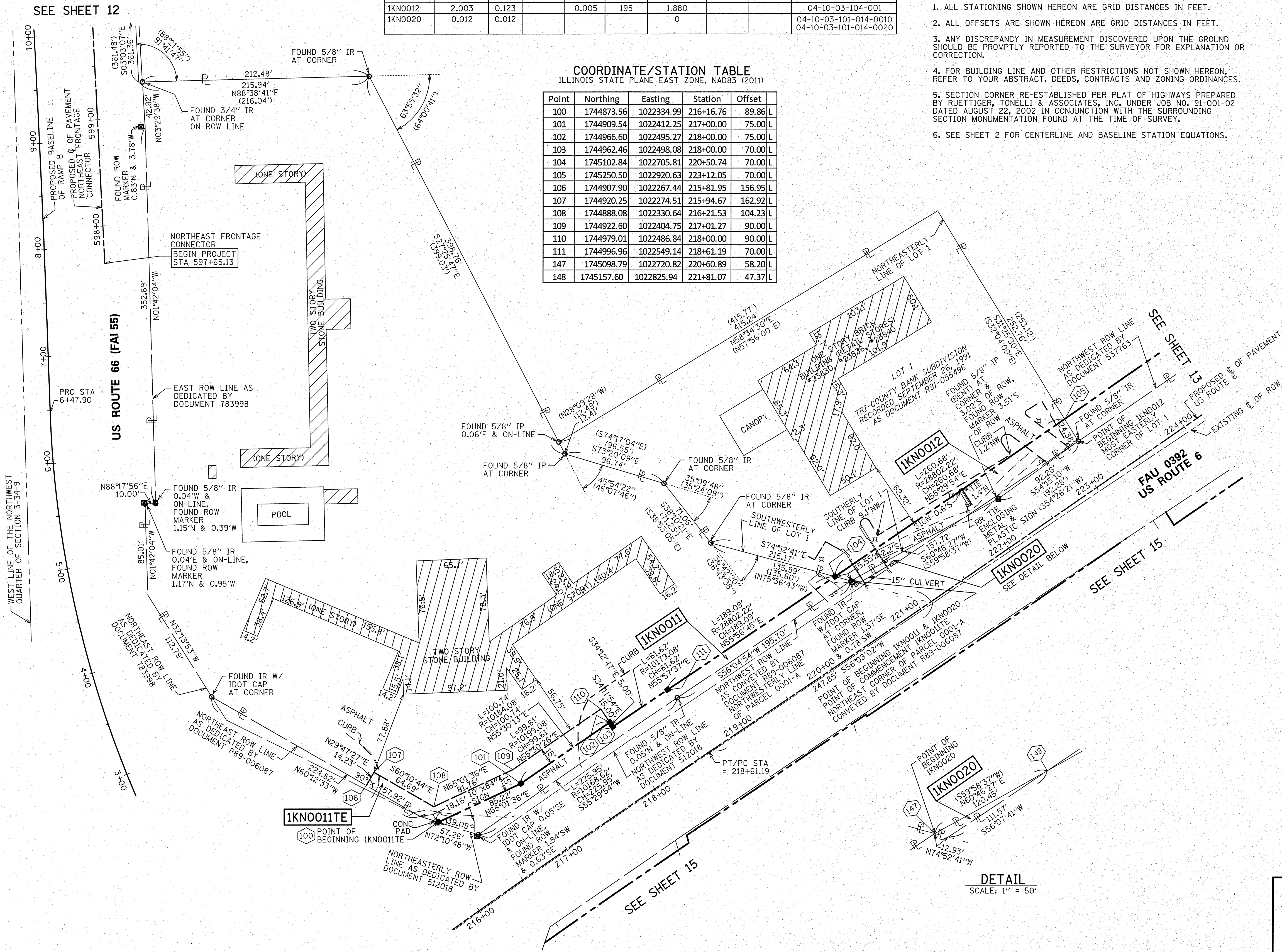
PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	PARCEL INDEX NUMBER
1KN0010 1KN0010TE	84.529	7.141		0	77.388	0.186		04-10-03-101-014-0010 04-10-03-101-014-0020 04-10-03-100-002 04-10-03-100-007 04-10-03-100-008
1KN0011 1KN0011TE	5.857	0.142		0	5.715	0.086		04-10-03-100-004
1KN0012	2.003	0.123		0.005	1.95			04-10-03-104-001
1KN0020	0.012	0.012			0			04-10-03-101-014-0010 04-10-03-101-014-0020

PROJECT COORDINATE VALUES AND BEARINGS ARE GRID AND REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 - ADJUSTMENT 2011. TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997662896.

- NOTES:
- ALL STATIONING SHOWN HEREON ARE GRID DISTANCES IN FEET.
 - ALL OFFSETS ARE SHOWN HEREON ARE GRID DISTANCES IN FEET.
 - ANY DISCREPANCY IN MEASUREMENT DISCOVERED UPON THE GROUND SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.
 - FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR ABSTRACT, DEEDS, CONTRACTS AND ZONING ORDINANCES.
 - SECTION CORNER RE-ESTABLISHED PER PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOCIATES, INC. UNDER JOB NO. 91-001-02 DATED AUGUST 22, 2002 IN CONJUNCTION WITH THE SURROUNDING SECTION MONUMENTATION FOUND AT THE TIME OF SURVEY.
 - SEE SHEET 2 FOR CENTERLINE AND BASELINE STATION EQUATIONS.

COORDINATE/STATION TABLE
ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset
100	1744873.56	1022334.99	216+16.76	89.86 L
101	1744909.54	1022412.25	217+00.00	75.00 L
102	1744966.60	1022495.27	218+00.00	75.00 L
103	1744962.46	1022498.08	218+00.00	70.00 L
104	1745102.84	1022705.81	220+50.74	70.00 L
105	1745250.50	1022920.63	223+12.05	70.00 L
106	1744907.90	1022267.44	215+81.95	156.95 L
107	1744920.25	1022274.51	215+94.67	162.92 L
108	1744888.08	1022330.64	216+21.53	104.23 L
109	1744922.60	1022404.75	217+01.27	90.00 L
110	1744979.01	1022486.84	218+00.00	90.00 L
111	1744996.96	1022549.14	218+61.19	70.00 L
147	1745098.79	1022720.82	220+60.89	58.20 L
148	1745157.60	1022825.94	221+81.07	47.37 L



- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- IRON PIPE OR ROD FOUND ⊕ *MAG NAIL SET
 - + CUT CROSS FOUND OR SET ● 5/8" REBAR SET
 - STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
COUNTY OF COOK)SS

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 4, TOWNSHIP 34 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20 ____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DOT USE ONLY
RECEIVED
MAR 21 2014
PLATS & LEGALS

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

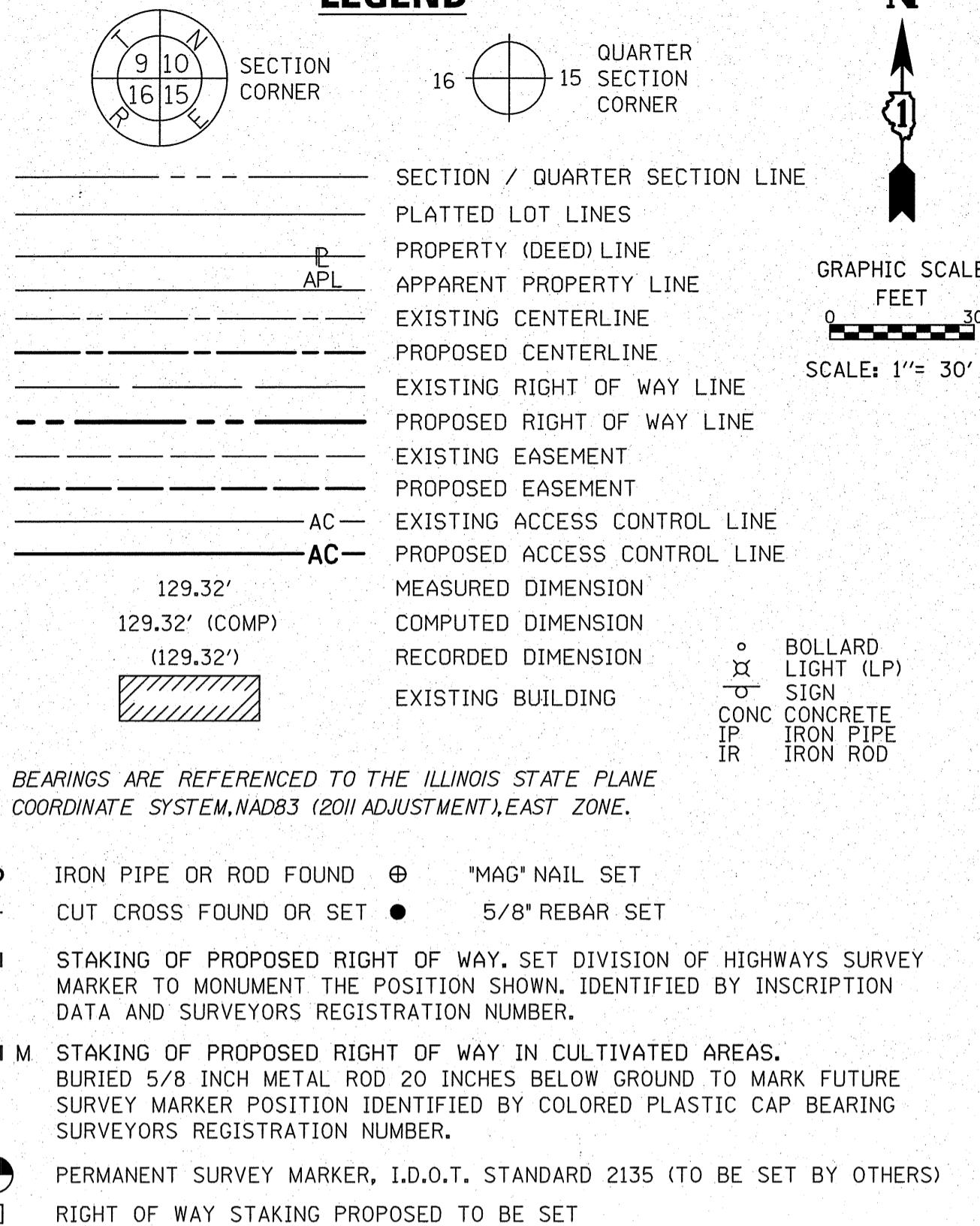
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: SECTION: AT INTERSTATE 55 COUNTY: WILL
STA. 215+81.95 JOB NO.: R-91-033-01
SCALE: 1" = 50' TO STA. 223+12.05 SHEET 13 OF 21 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PART OF THE NORTHWEST QUARTER OF SECTION 3 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

LEGEND



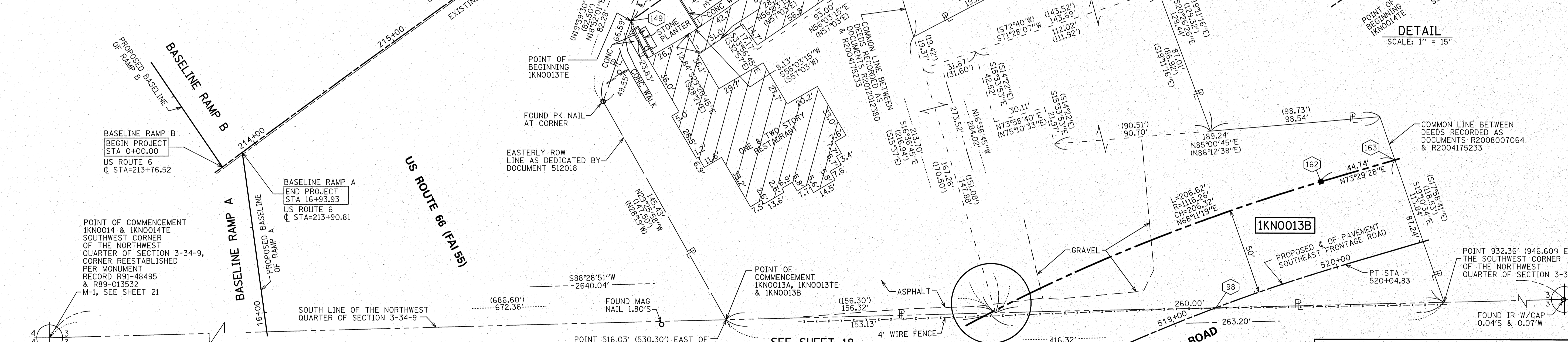
PROJECT COORDINATE VALUES AND BEARINGS ARE GRID AND REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 - ADJUSTMENT 2011. TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997662896.

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COORDINATE/STATION TABLE
 ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset	
98	1744578.25	1022768.41	519+25.78	0.00	R
149	1744744.26	1022429.02	216+18.93	70.00	R
150	1744836.97	1022562.53	217+82.61	70.00	R
151	1744843.67	1022572.36	217+94.59	70.00	R
152	1744848.70	1022570.87	217+96.20	65.00	R
153	1744884.86	1022624.37	218+61.19	65.00	R
154	1744953.95	1022726.85	219+84.51	65.00	R
155	1744760.39	1022434.53	216+32.82	60.00	R
156	1744847.03	1022559.53	217+85.82	60.00	R
157	1744853.74	1022569.38	217+97.81	60.00	R
158	1744860.78	1022567.30	218+00.06	53.00	R
159	1744894.82	1022617.69	218+61.19	53.00	R
160	1744965.99	1022723.22	219+88.24	53.00	R
161	1744574.78	1022637.53	518+07.47	50.00	L
162	1744651.44	1022829.08	520+04.83	50.00	L
163	1744664.15	1022871.98	520+49.57	50.00	L



STATE OF ILLINOIS)
 COUNTY OF COOK)

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DATED THIS _____ DAY OF _____ 20____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	TOTAL SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	PARCEL INDEX NUMBER
1KNO013A 1KNO013B 1KNO013TE	1.857	0.030 0.276		0	1.551	0.036		04-10-03-101-009 04-10-03-101-008 04-10-03-101-015
1KNO014 1KNO014E	0.602	0.011		0	0.591	0.055		04-10-03-101-006

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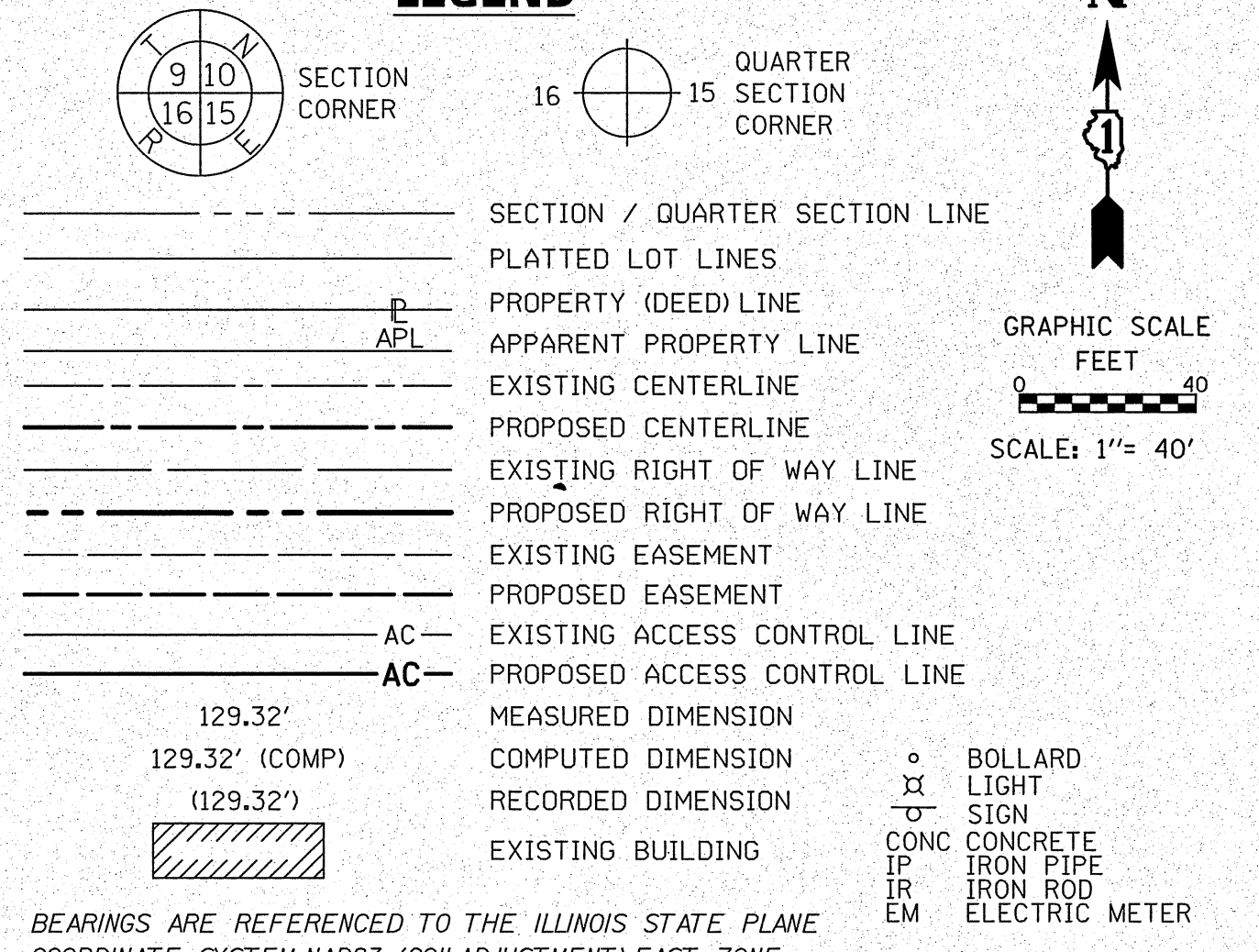
SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
 9575 W. Higgins Road, Suite 700,
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6
 LIMITS: SECTION: AT INTERSTATE 55 COUNTY: WILL
 STA. 213+76.52 JOB NO.: R-91-033-01
 SCALE: 1" = 30' TO STA. 219+88.24 SHEET 14 OF 21 SHEETS
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 03/21/2014 REVISION MADE BY: SDS

PART OF THE NORTHWEST QUARTER OF SECTION 3 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

LEGEND



PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART ACRES	TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	PARCEL INDEX NUMBER
IKNO015A	4.969	0.014		0	4.048			04-10-03-101-011
IKNO015B		0.907				0.108		04-10-03-101-013
IKNO015TE-A								
IKNO015TE-B						0.086		

COORDINATE/STATION TABLE
ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset	
154	1744953.95	1022726.85	219+84.51	65.00	R
160	1744965.99	1022723.22	219+88.24	53.00	R
163	1744664.15	1022871.98	520+49.57	50.00	L
164	1744974.13	1022735.24	220+02.73	53.00	R
165	1744972.13	1022735.84	220+02.11	55.00	R
166	1745138.57	1022978.59	222+95.88	55.00	R
167	1745075.72	1022905.20	221+99.98	65.00	R
168	1745067.27	1022910.55	221+99.58	75.00	R
169	1745138.90	1023014.15	223+25.22	75.00	R
170	1744583.07	1022950.33	521+01.65	50.00	R
171	1744583.98	1022953.38	521+04.84	50.00	R
172	1744725.52	1023284.08	524+53.73	50.00	R
173	1744809.05	1023228.69	524+47.02	50.00	L
174	1744679.85	1022924.97	521+04.84	50.00	L
175	1744645.68	1023124.14	522+80.65	50.00	R
176	1744618.26	1023136.33	522+81.01	80.00	R
177	1744672.23	1023249.41	524+00.00	80.00	R
178	1744698.77	1023235.43	524+00.00	50.00	R

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STATE OF ILLINOIS)
) SS
 COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-00157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 4, TOWNSHIP 34 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20 ____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

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SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
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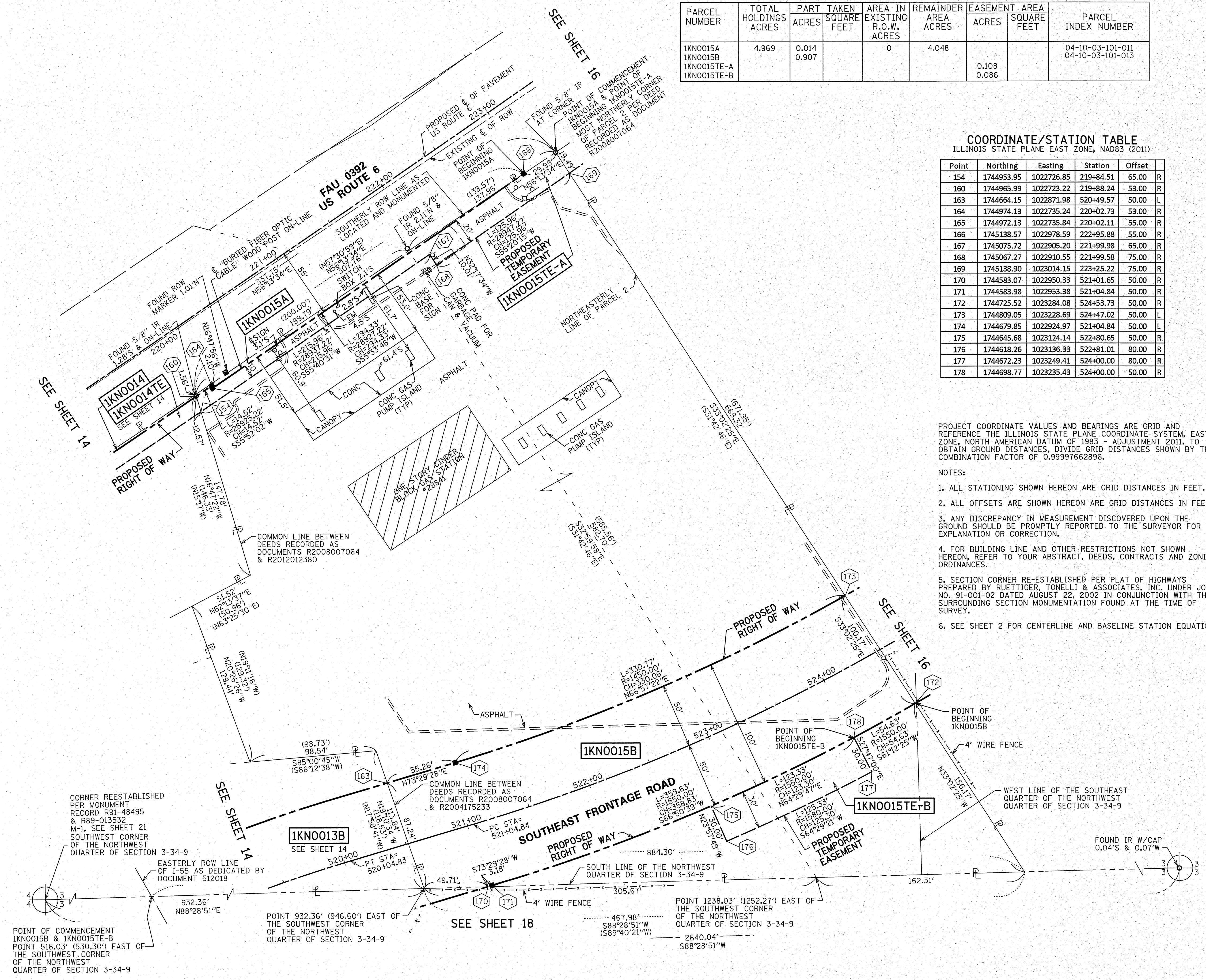
9575 W. Higgins Road, Suite 700,
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: SECTION: AT INTERSTATE 55 COUNTY: WILL
 STA. 219+84.51 JOB NO.: R-91-033-01
 SCALE: 1" = 40' TO STA. 223+25.22 SHEET 15 OF 21 SHEETS

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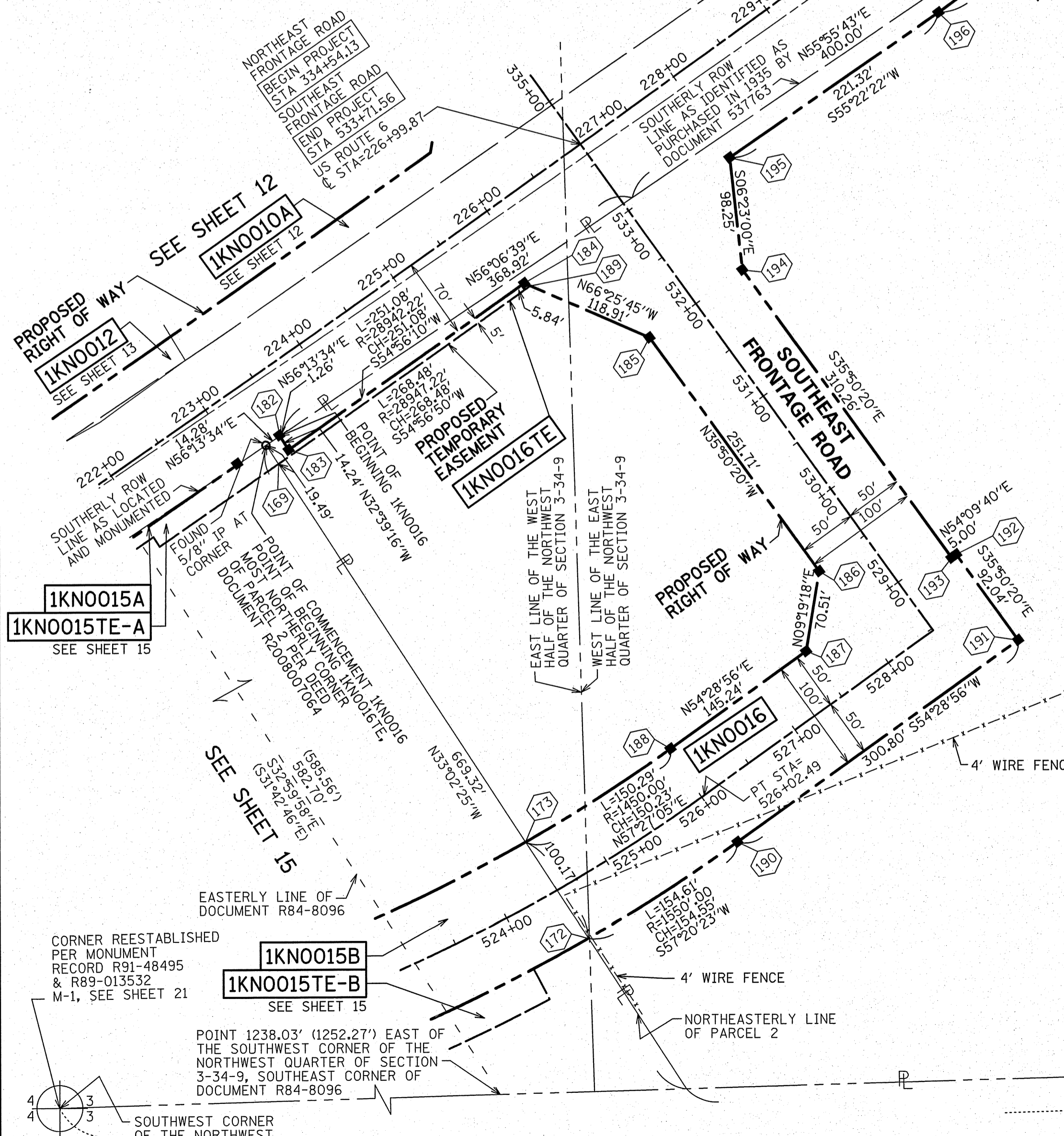
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PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
1KNO016 1KNO016TE	34.561	2.477		0	32.084	0.035		04-10-03-101-014-0010 04-10-03-101-014-0020 04-10-03-101-004 04-10-03-102-001

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COORDINATE/STATION TABLE
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172	1744725.52	1023284.08	524+53.73	50.00	R
173	1744809.05	1023228.69	524+47.02	50.00	L
182	1745163.18	1023015.39	223+40.06	55.77	R
183	1745151.19	1023023.07	223+39.52	70.00	R
184	1745295.44	1023228.58	225+90.00	70.00	R
185	1745247.88	1023337.58	532+00.00	50.00	L
186	1745043.83	1023484.95	529+48.29	50.00	L
187	1744974.25	1023473.53	527+47.73	50.00	L
188	1744889.87	1023355.32	526+02.49	50.00	L
189	1745293.10	1023233.94	225+93.01	75.00	R
190	1744808.48	1023413.41	526+02.49	50.00	R
191	1744983.23	1023658.24		50.00	R
192	1745057.85	1023604.35	528+89.74	55.00	R
193	1745054.92	1023600.30	528+89.74	50.00	R
194	1745306.43	1023418.64	532+00.00	50.00	R
195	1745404.07	1023407.72	227+98.35	85.65	R
196	1745529.84	1023589.84	230+18.95	90.74	R
197	1745975.71	1024201.12	237+77.60	84.70	R
198	1745997.39	1024200.47	237+89.37	66.55	R

LEGEND

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- 'M' MAG' NAIL SET
- 'R' 5/8" REBAR SET
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COUNTY OF COOK)

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SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

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Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: COUNTY: WILL
SECTION: AT INTERSTATE 55 JOB NO.: R-91-033-01
STA. 222+00.00 TO STA. 238+00.00
SCALE: 1" = 80' SHEET 16 OF 21 SHEETS

RECEIVED
MAR 21 2014
PLATS & LEGALS

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SCHAUMBURG, ILLINOIS 60196

REVISION DATE: 03/21/2014 REVISION MADE BY: SDS

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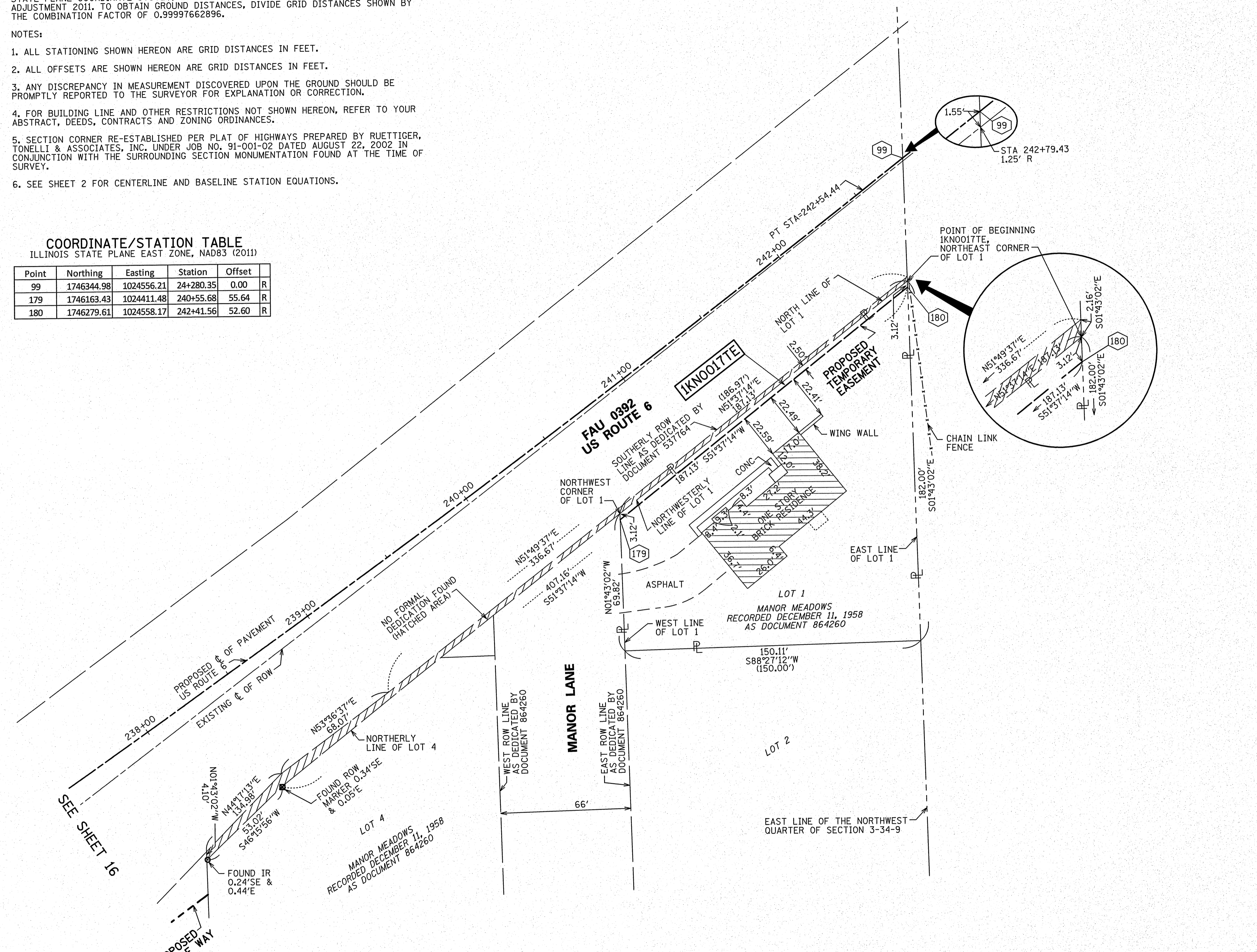
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1. ALL STATIONING SHOWN HEREON ARE GRID DISTANCES IN FEET.
2. ALL OFFSETS ARE SHOWN HEREON ARE GRID DISTANCES IN FEET.
3. ANY DISCREPANCY IN MEASUREMENT DISCOVERED UPON THE GROUND SHOULD BE PROMPTLY REPORTED TO THE SURVEYOR FOR EXPLANATION OR CORRECTION.
4. FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON, REFER TO YOUR ABSTRACT, DEEDS, CONTRACTS AND ZONING ORDINANCES.
5. SECTION CORNER RE-ESTABLISHED PER PLAT OF HIGHWAYS PREPARED BY RUETTIGER, TONELLI & ASSOCIATES, INC. UNDER JOB NO. 91-001-02 DATED AUGUST 22, 2002 IN CONJUNCTION WITH THE SURROUNDING SECTION MONUMENTATION FOUND AT THE TIME OF SURVEY.
6. SEE SHEET 2 FOR CENTERLINE AND BASELINE STATION EQUATIONS.

COORDINATE/STATION TABLE
ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011)

Point	Northing	Easting	Station	Offset	
99	1746344.98	1024556.21	24+280.35	0.00	R
179	1746163.43	1024411.48	240+55.68	55.64	R
180	1746279.61	1024558.17	242+41.56	52.60	R



LEGEND

	SECTION CORNER		QUARTER SECTION CORNER
	SECTION /QUARTER SECTION LINE		PLATTED LOT LINES
	PROPERTY (DEED) LINE		APPARENT PROPERTY LINE
	EXISTING CENTERLINE		PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE		PROPOSED RIGHT OF WAY LINE
	EXISTING EASEMENT		PROPOSED EASEMENT
	EXISTING ACCESS CONTROL LINE		PROPOSED ACCESS CONTROL LINE
	MEASURED DIMENSION		COMPUTED DIMENSION
	RECORDED DIMENSION		BOLLARD
	EXISTING BUILDING		LIGHT
			SIGN
			CONCRETE
			IRON PIPE
			IRON ROD

GRAPHIC SCALE
0 30
FEET
SCALE: 1" = 30'

- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
 - + CUT CROSS FOUND OR SET ● 5/8" REBAR SET
 - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 4, TOWNSHIP 34 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20 ____ A.D. AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART ACRES	TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
1KNO017TE	0.434	0		0	0.434	0.011		04-10-03-103-001

SPACECO INC.

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

LIMITS: COUNTY: WILL
SECTION: AT INTERSTATE 55 JOB NO.: R-91-033-01
STA. 238+00.00 TO STA. 242+79.43
SCALE: 1" = 30' SHEET 17 OF 21 SHEETS

IDOT USE ONLY
SS
RECEIVED
FEB 07 2014
PLATS & LEGALS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PART OF THE SOUTHWEST QUARTER OF SECTION 3 TWP. 34 N., R. 9 E. OF THE 3RD. P.M., IN WILL COUNTY, ILLINOIS.

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORDED DIMENSION
EXISTING BUILDING

GRAPHIC SCALE
FEET
SCALE: 1" = 150'

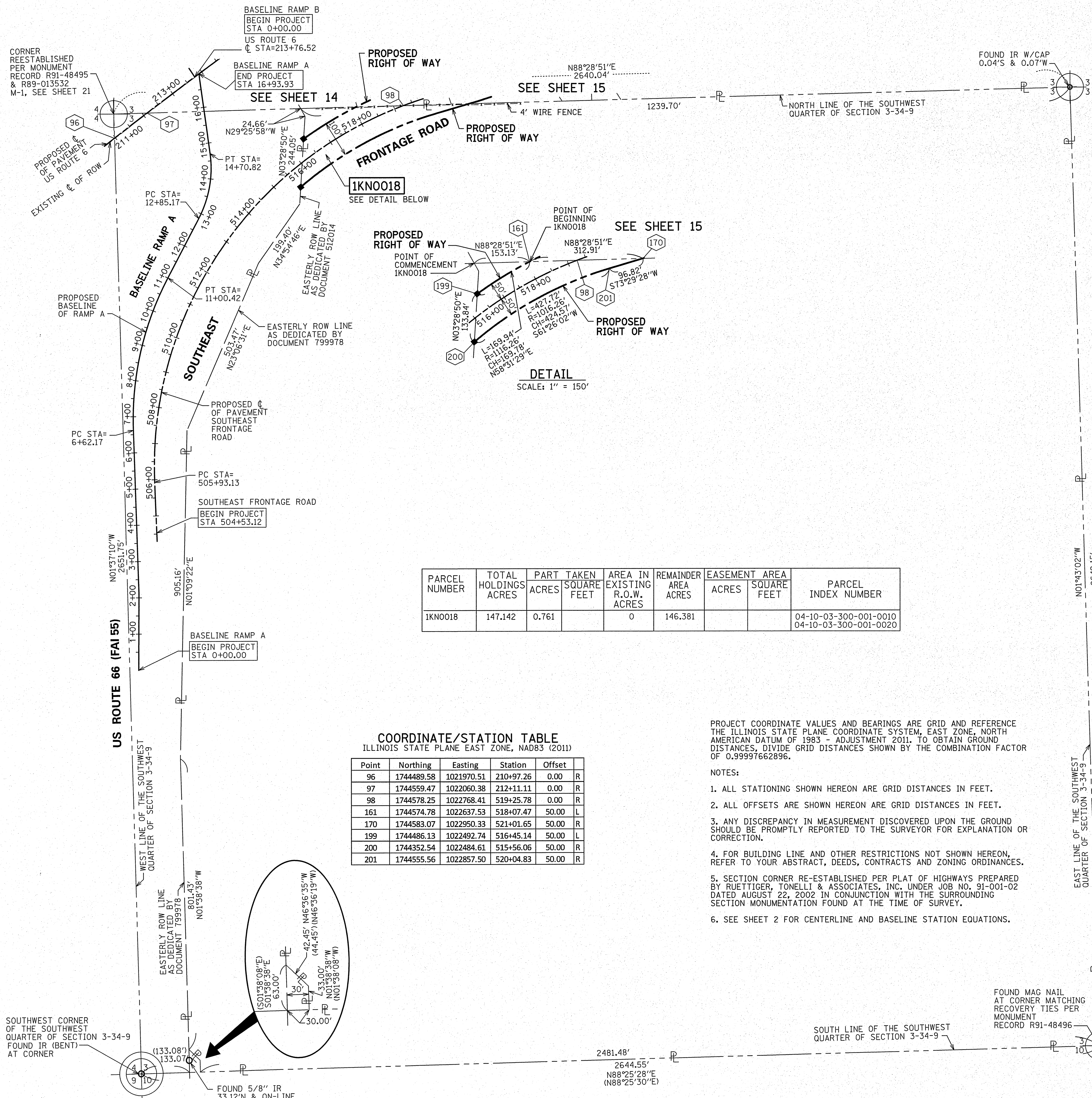
IP IRON PIPE
IR IRON ROD

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

○ IRON PIPE OR ROD FOUND ⊕ *MAG* NAIL SET
+ CUT CROSS FOUND OR SET ● 5/8" REBAR SET

■ STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
□ RIGHT OF WAY STAKING PROPOSED TO BE SET



STATE OF ILLINOIS)
)SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 4, TOWNSHIP 34 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED THIS _____ DAY OF _____ 20__ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

SPACECO INC.

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 6

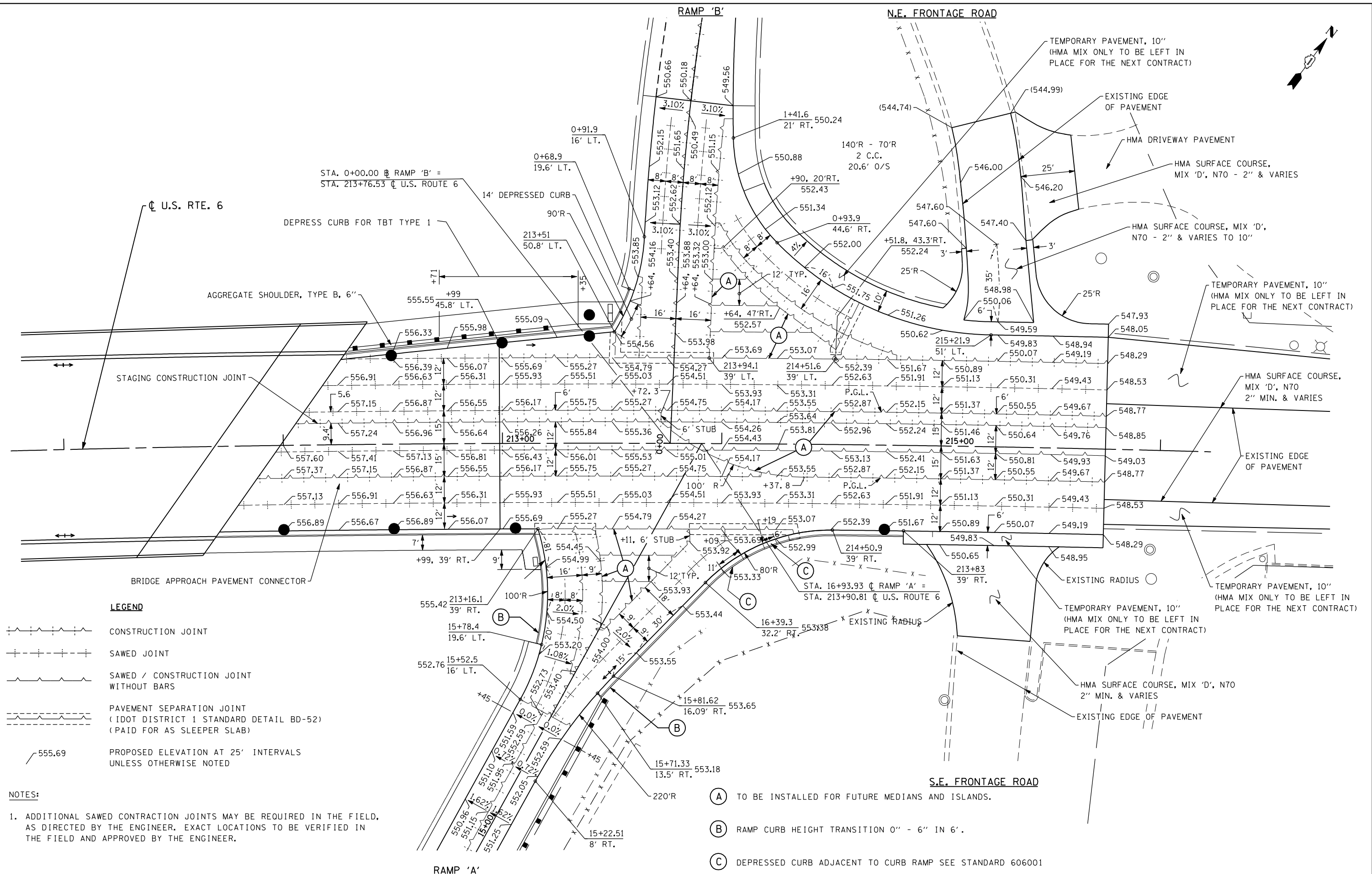
LIMITS: COUNTY: WILL
SECTION: AT INTERSTATE 55 JOB NO.: R-91-033-01
STA. 504+53.12 TO STA. 519+25.78
SCALE: 1" = 150' SHEET 18 OF 21 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY
RECEIVED
MAR 21 2014
PLATS & LEGALS

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
NO.	



LEGEND

CONSTRUCTION JOINT
 SAWED JOINT
 SAWED / CONSTRUCTION JOINT WITHOUT BARS
 PAVEMENT SEPARATION JOINT (IDOT DISTRICT 1 STANDARD DETAIL BD-52) (PAID FOR AS SLEEPER SLAB)
 555.69 PROPOSED ELEVATION AT 25' INTERVALS UNLESS OTHERWISE NOTED

NOTES:

1. ADDITIONAL SAWED CONTRACTION JOINTS MAY BE REQUIRED IN THE FIELD, AS DIRECTED BY THE ENGINEER. EXACT LOCATIONS TO BE VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

- (A) TO BE INSTALLED FOR FUTURE MEDIANS AND ISLANDS.
- (B) RAMP CURB HEIGHT TRANSITION 0" - 6" IN 6'.
- (C) DEPRESSED CURB ADJACENT TO CURB RAMP SEE STANDARD 606001

FILE NAME = D160X84-sht-20SCALE-Ramp'A&B.dwg
 PLOT DATE = 9/3/2014
 PLOT SCALE = 40,0000' / IN.

CHRISTIAN ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED -	REVISED -
DATE - SEPT 03, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

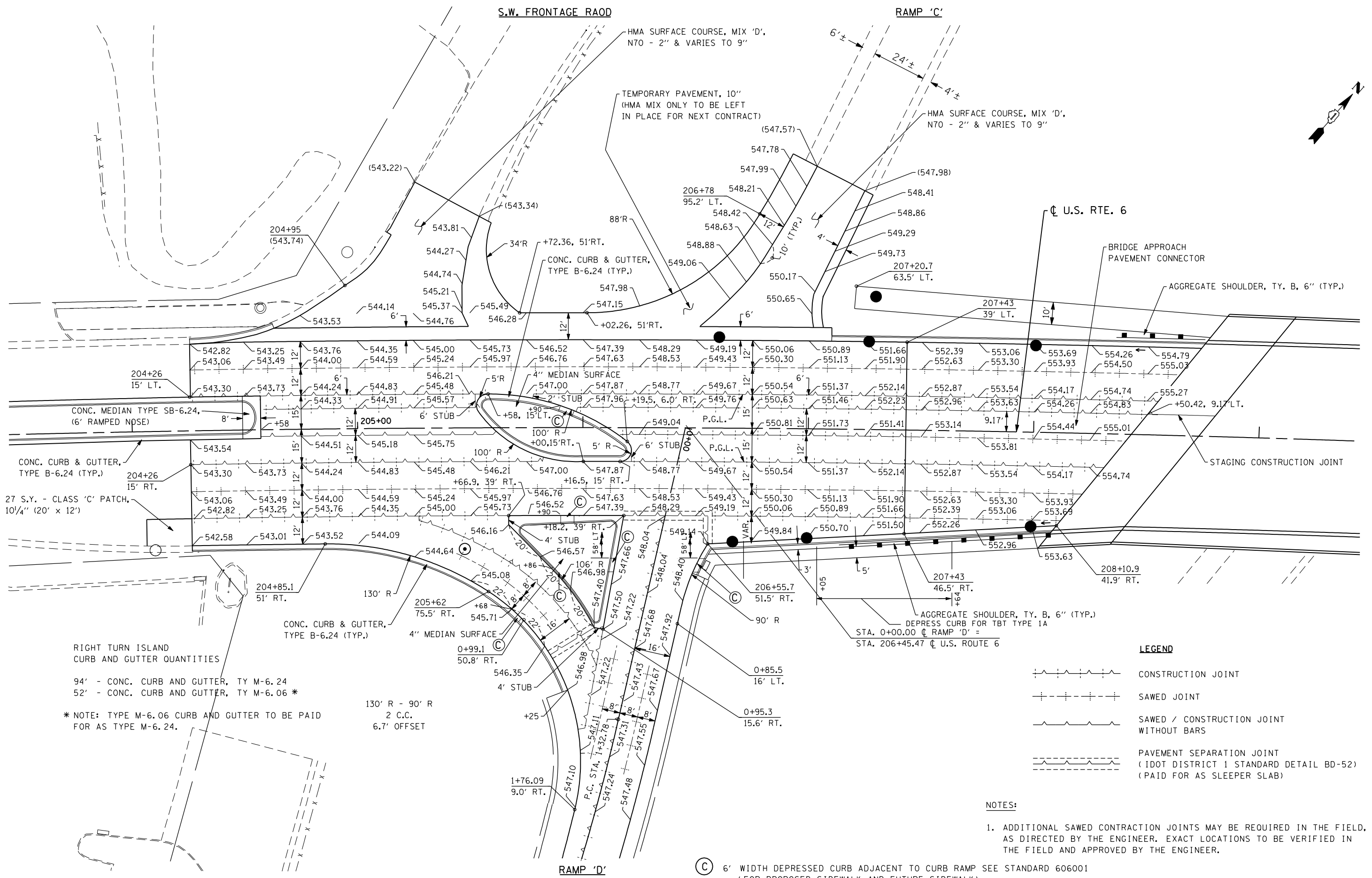
**DETAILS AND ELEVATIONS
 U.S. 6 AT RAMP 'A' AND RAMP 'B'**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	111
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
NO.	
AREAS CHECKED	



RIGHT TURN ISLAND CURB AND GUTTER QUANTITIES

94' - CONC. CURB AND GUTTER, TY M-6.24
 52' - CONC. CURB AND GUTTER, TY M-6.06 *

* NOTE: TYPE M-6.06 CURB AND GUTTER TO BE PAID FOR AS TYPE M-6.24.

130' R - 90' R
 2 C.C.
 6.7' OFFSET

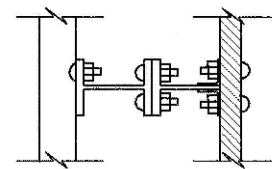
LEGEND

	CONSTRUCTION JOINT
	SAWED JOINT
	SAWED / CONSTRUCTION JOINT WITHOUT BARS
	PAVEMENT SEPARATION JOINT (IDOT DISTRICT 1 STANDARD DETAIL BD-52) (PAID FOR AS SLEEPER SLAB)

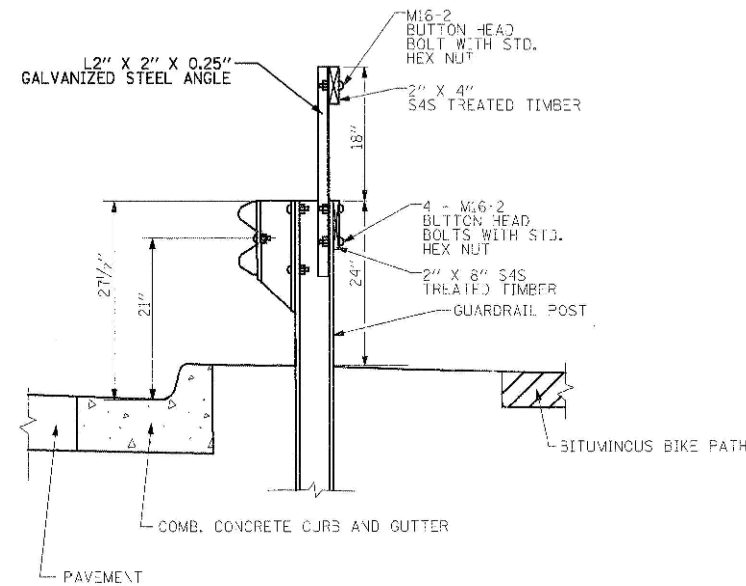
NOTES:

1. ADDITIONAL SAWED CONTRACTION JOINTS MAY BE REQUIRED IN THE FIELD, AS DIRECTED BY THE ENGINEER. EXACT LOCATIONS TO BE VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

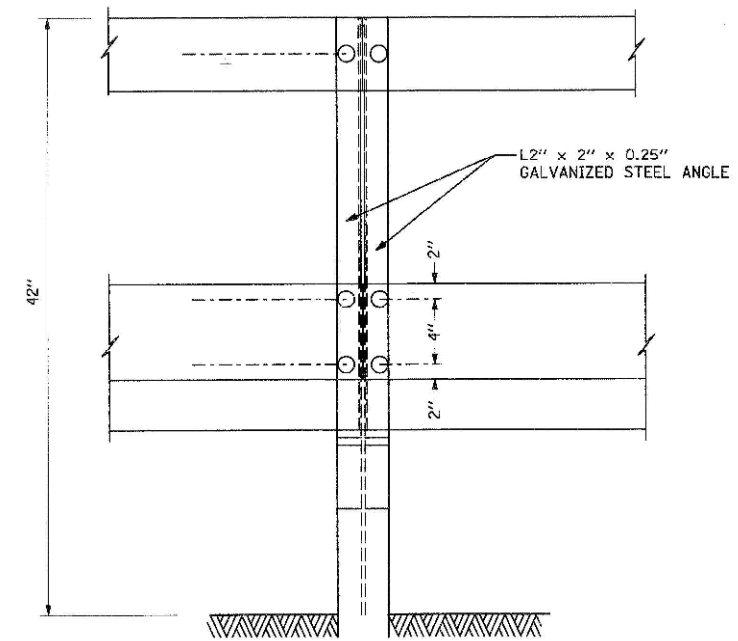
Ⓢ 6' WIDTH DEPRESSED CURB ADJACENT TO CURB RAMP SEE STANDARD 606001 (FOR PROPOSED SIDEWALK AND FUTURE SIDEWALK)



PLAN



CROSS SECTION



ELEVATION
(BIKE PATH SIDE)

RUB RAIL ATTACHED TO GUARDRAIL DETAIL

NOTE:

1. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION FROM THE BRIDGE PARAPET TO THE RUB RAIL THAT SHALL PREVENT SNAGGING OF CLOTHING OR INCURRING ABRASIVE INJURIES FROM CONTACT WITH THE SURFACE.

FILE NAME = D160X84-sht-rdwjdetail.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.



CHRISTIAN-ROGGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.
 DRAWN - A.C.S.
 CHECKED - M.P.
 DATE - AUGUST 2014

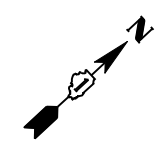
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

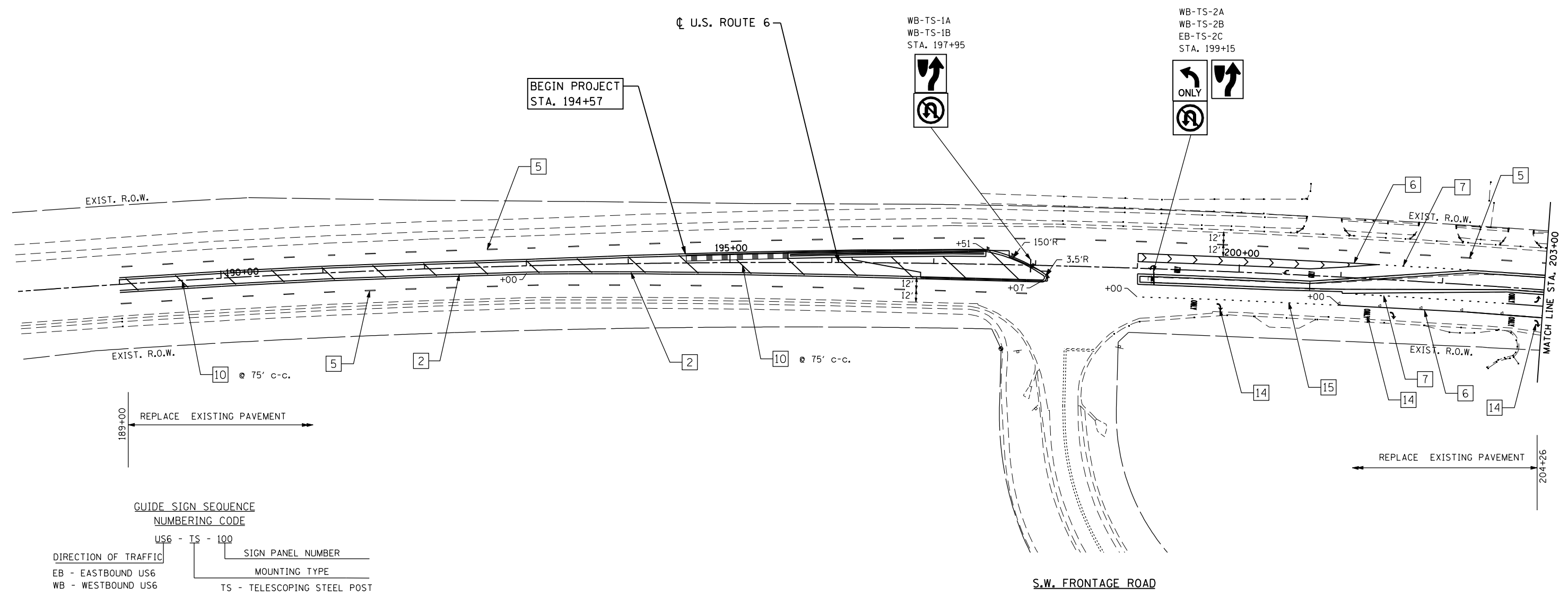
ROADWAY DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	113
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	



VILLAGE OF CHANNAHON



GUIDE SIGN SEQUENCE NUMBERING CODE

US6 - IS - 100	SIGN PANEL NUMBER
DIRECTION OF TRAFFIC	MOUNTING TYPE
EB - EASTBOUND US6	TS - TELESCOPING STEEL POST
WB - WESTBOUND US6	WP - WOOD POST
R - RAMPS A TO D	MP - METAL POST
FR - FRONTAGE ROAD	PM - POLE MOUNTED
	GM - GROUND MOUNTED

NOTE: THE STATIONING FOR THE SIGNS IS PROVIDED FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL SIGN MESSAGES AND CONFIGURATION IN THE FIELD PRIOR TO ORDERING SIGNS AND THEIR SUPPORTS.

LEGEND

1 LINE 4" (YELLOW SOLID LINE)	5 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)	9 LINE 12" (YELLOW SOLID LINE)	13 LINE 24" (WHITE STOP BAR)
2 LINE 4" (DOUBLE YELLOW SOLID LINES)	6 LINE 6" (WHITE SOLID LINE)	10 LINE 12" (YELLOW DIAGONAL LINE)	14 LETTERS AND SYMBOLS (TYP.)
3 LINE 4" (YELLOW - 10' DASH, 30' SKIP)	7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)	11 LINE 12" (WHITE SOLID LINE)	15 LINE 6" (WHITE LANE LINE - 3' DASH, 9' SKIP)
4 LINE 4" (WHITE SOLID LINE)	8 LINE 8" (WHITE SOLID LINE)	12 LINE 12" (WHITE DIAGONAL LINE)	16 LINE 4" (YELLOW LANE LINE - 2' DASH, 6' SKIP)

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE POLYUREA UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME = D160X84-sht-pmk01.dgn
 PLOT DATE = 9/9/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

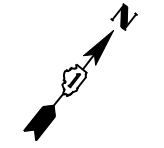
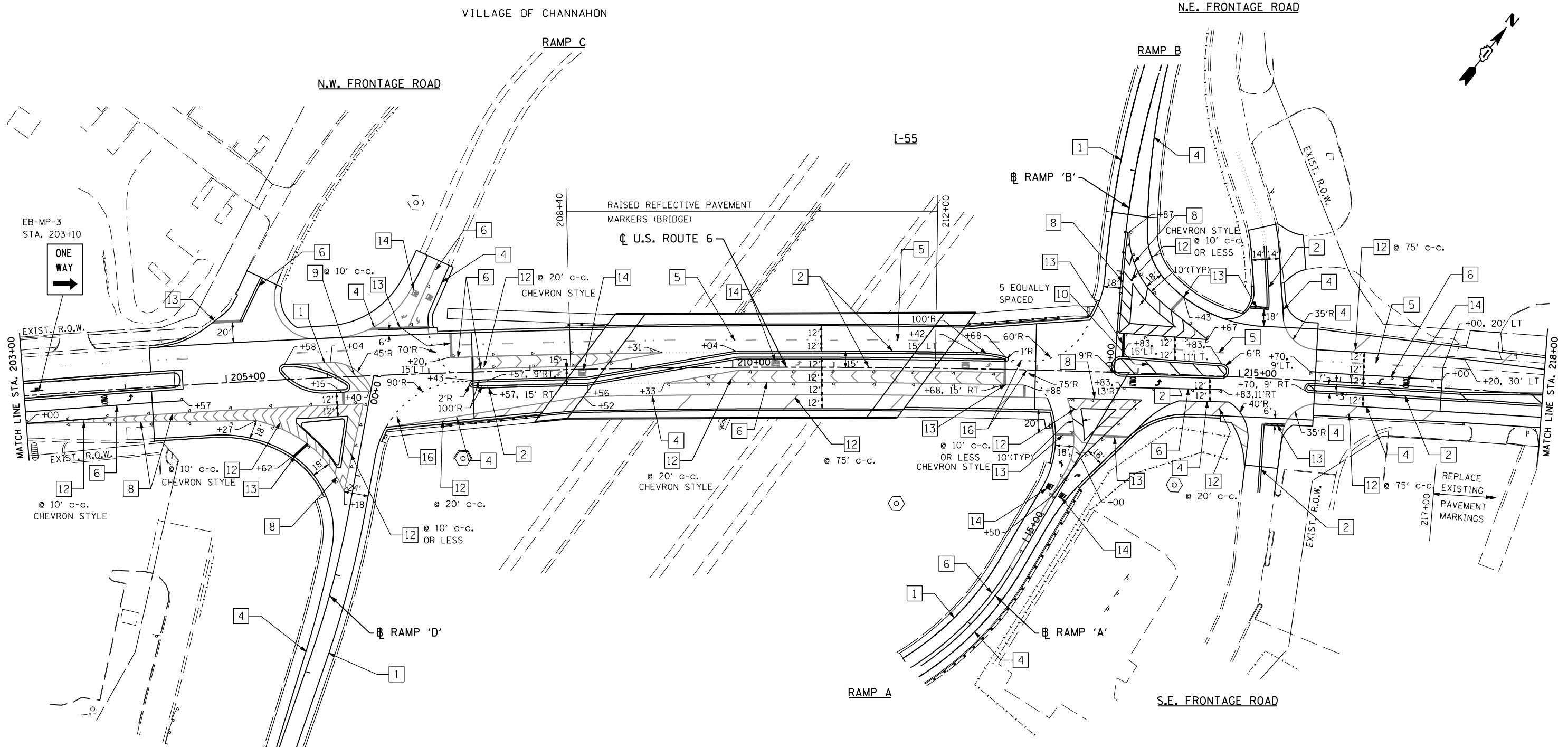
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - M.P.	REVISED -
DATE - SEPT 09, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 U.S. 6**

SCALE: 1" = 50' SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	114
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:
1. FOR INTERCHANGE SIGNING SEE 20 SCALE DRAWINGS.
 2. USE 20' c-c. SPACING FOR RAISED REFLECTIVE PAVEMENT MARKERS AROUND STRIPED ISLANDS.

LEGEND			
1	LINE 4" (YELLOW SOLID LINE)	5	LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP)
2	LINE 4" (DOUBLE YELLOW SOLID LINES)	6	LINE 6" (WHITE SOLID LINE)
3	LINE 4" (YELLOW - 10' DASH, 30' SKIP)	7	LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)
4	LINE 4" (WHITE SOLID LINE)	8	LINE 8" (WHITE SOLID LINE)
9	LINE 12" (YELLOW SOLID LINE)	13	LINE 24" (WHITE STOP BAR)
10	LINE 12" (YELLOW DIAGONAL LINE)	14	LETTERS AND SYMBOLS (TYP.)
11	LINE 12" (WHITE SOLID LINE)	15	LINE 6" (WHITE LANE LINE - 3' DASH, 9' SKIP)
12	LINE 12" (WHITE DIAGONAL LINE)	16	LINE 4" (YELLOW LANE LINE - 2' DASH, 6' SKIP)

- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA UNLESS OTHERWISE SPECIFIED.
 2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME = D160X84-sht-pmk02.dgn
 PLOT DATE = 11/18/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

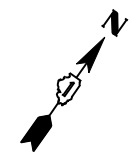
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - M.P.	REVISED -
DATE - NOVEMBER 17, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

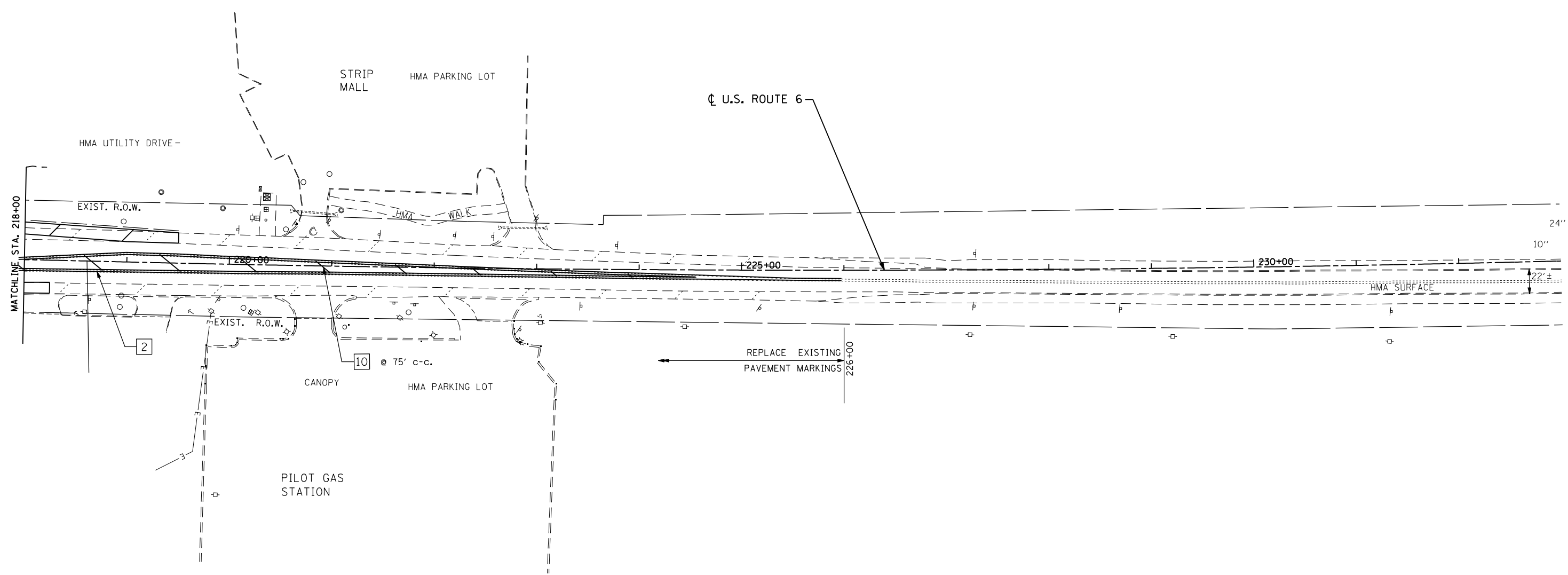
**PAVEMENT MARKING AND SIGNING PLAN
 U.S. 6**

SCALE: 1" = 50' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	*TOT	*PMK.2
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



VILLAGE OF CHANNAHON



LEGEND

- | | | |
|---|--|--|
| 1 LINE 4" (YELLOW SOLID LINE) | 5 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 9 LINE 12" (YELLOW SOLID LINE) |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 LINE 6" (WHITE SOLID LINE) | 10 LINE 12" (YELLOW DIAGONAL LINE) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 11 LINE 12" (WHITE SOLID LINE) |
| 4 LINE 4" (WHITE SOLID LINE) | 8 LINE 8" (WHITE SOLID LINE) | 12 LINE 12" (WHITE DIAGONAL LINE) |
| | | 13 LINE 24" (WHITE STOP BAR) |
| | | 14 LETTERS AND SYMBOLS (TYP.) |
| | | 15 LINE 6" (WHITE LANE LINE - 3' DASH, 9' SKIP) |
| | | 16 LINE 4" (YELLOW LANE LINE - 2' DASH, 6' SKIP) |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE POLYUREA UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME = D160X84-sht-pmk03.dgn
 PLOT DATE = 9/9/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

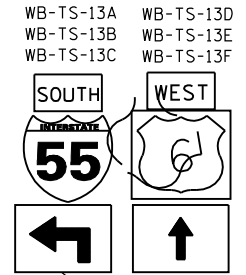
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - M.P.	REVISED -
DATE - SEPT 09, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 US 6**

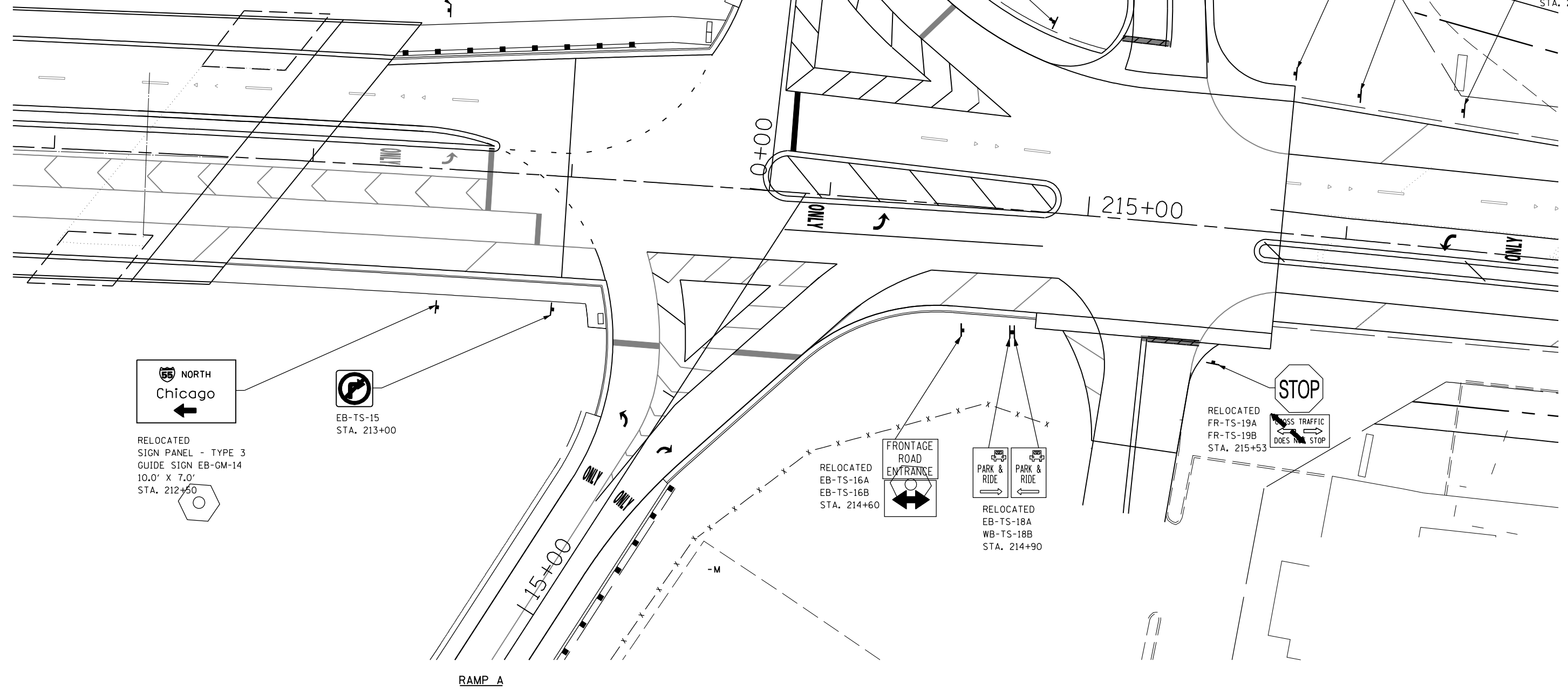
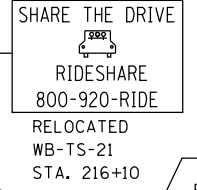
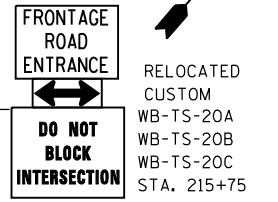
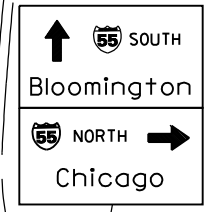
SCALE: 1" = 50' SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	116
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

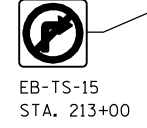


RELOCATED
SIGN PANEL
ASSEMBLY-TYPE B
STA. 212+50

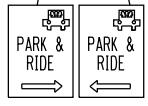
RAMP B
RELOCATED
SIGN PANEL - TYPE 3
GUIDE SIGN WB-GM-17
13.0' X 10.5'
STA. 214+80



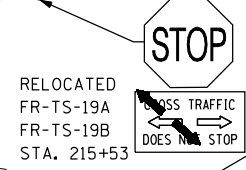
RELOCATED
SIGN PANEL - TYPE 3
GUIDE SIGN EB-GM-14
10.0' X 7.0'
STA. 212+50



RELOCATED
EB-TS-16A
EB-TS-16B
STA. 214+60



RELOCATED
EB-TS-18A
WB-TS-18B
STA. 214+90



FILE NAME = D160X84-sht-sign_rampob.dgn
PLOT DATE = 11/18/2014
PLOT SCALE = 40,0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.
DRAWN - B.K.
CHECKED - M.P.
DATE - NOVEMBER 17, 2014

REVISED -
REVISED -
REVISED -
REVISED -

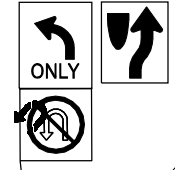
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGNING PLAN
US 6**

SCALE: SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	\$TOT	\$PMK.4
			CONTRACT NO. 60X84	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

R3-5 - 24" x 30"
 R4-7 - 24" x 30"
 R3-4 - 24" x 24"
 STA. 204+45
 TEL. SUPPORT @ 14.5'



NW FRONTAGE ROAD

RAMP C

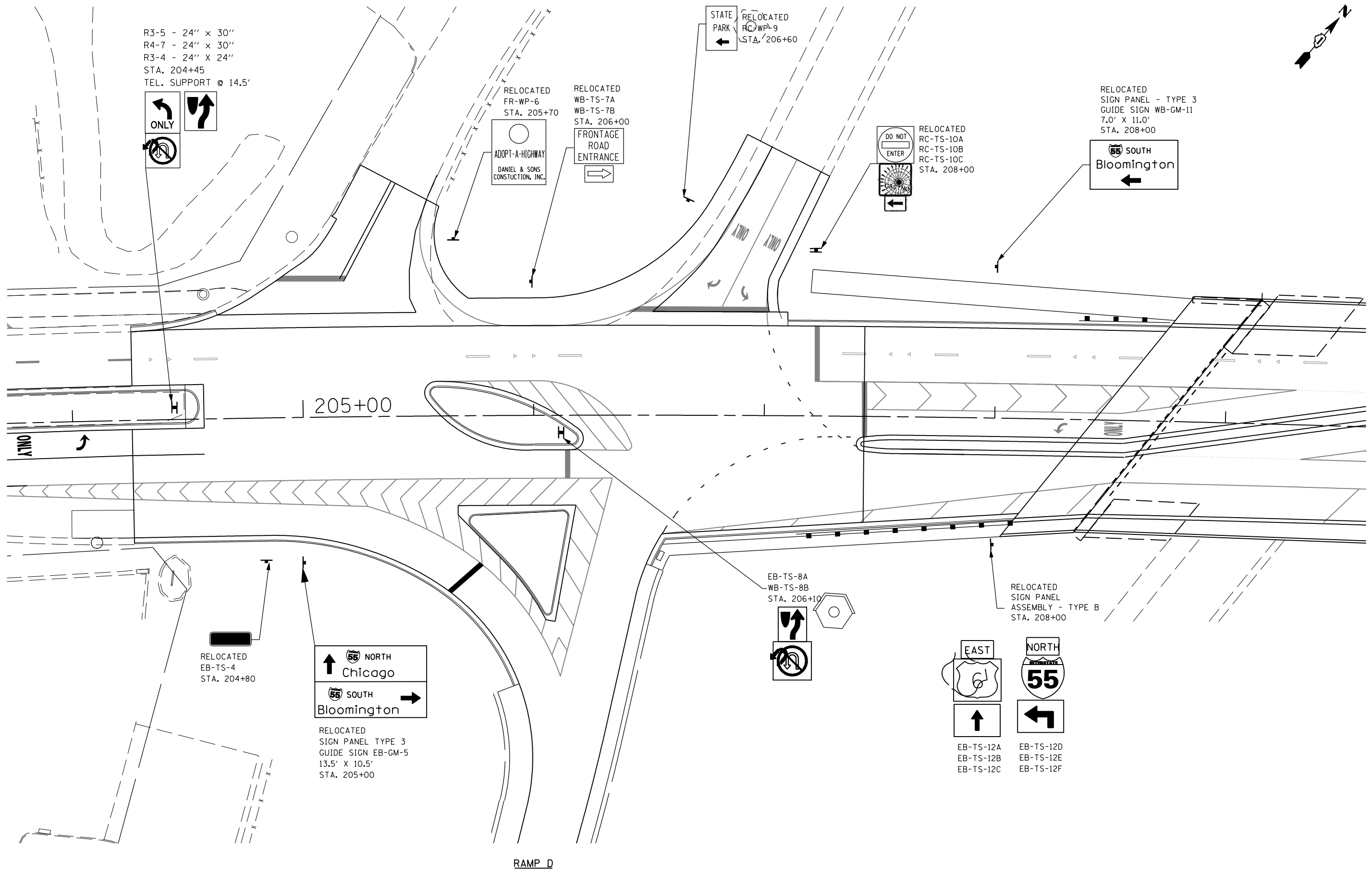
STATE PARK
 RELOCATED FC-WP-9
 STA. 206+60

RELOCATED FR-WP-6
 STA. 205+70
 ADOPT-A-HIGHWAY
 DANIEL & SONS
 CONSTRUCTION, INC.

RELOCATED WB-TS-7A
 WB-TS-7B
 STA. 206+00
 FRONTAGE ROAD
 ENTRANCE

RELOCATED RC-TS-10A
 RC-TS-10B
 RC-TS-10C
 STA. 208+00
 DO NOT ENTER

RELOCATED SIGN PANEL - TYPE 3
 GUIDE SIGN WB-GM-11
 7.0' X 11.0'
 STA. 208+00
 SOUTH
 Bloomington



RELOCATED EB-TS-4
 STA. 204+80

↑ NORTH
 Chicago
 SOUTH
 Bloomington →
 RELOCATED SIGN PANEL TYPE 3
 GUIDE SIGN EB-GM-5
 13.5' X 10.5'
 STA. 205+00

EB-TS-8A
 WB-TS-8B
 STA. 206+10

RELOCATED SIGN PANEL
 ASSEMBLY - TYPE B
 STA. 208+00

EAST
 NORTH
 55
 EB-TS-12A
 EB-TS-12B
 EB-TS-12C
 EB-TS-12D
 EB-TS-12E
 EB-TS-12F

RAMP D

FILE NAME = D160X84-sht-sign_rampcd.dgn
 PLOT DATE = 11/18/2014
 PLOT SCALE = 40,0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - NOVEMBER 17, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

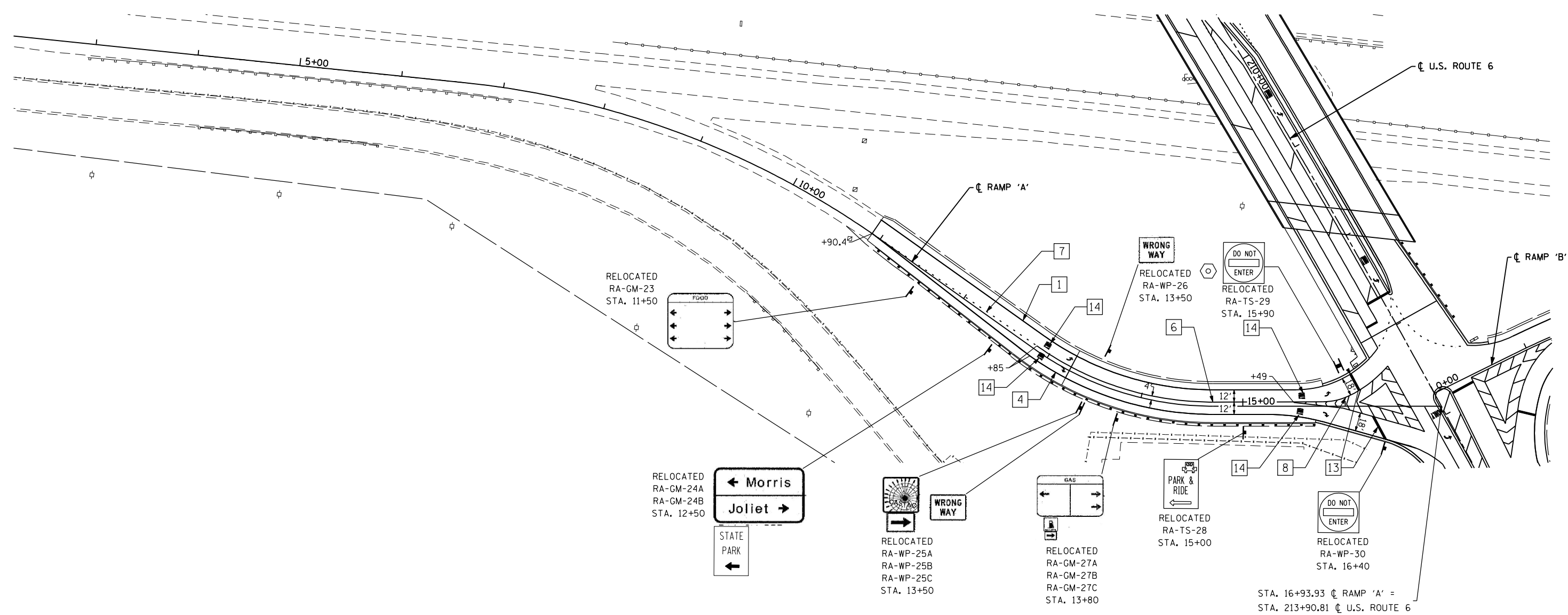
**PAVEMENT MARKING & SIGNING PLAN
 US 6**
 SCALE: 1" = 20' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	@TOT	\$PMK.5
			CONTRACT NO. 60X84	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	
SURVEYED BY	
PLOTTED BY	
TEMPLATE NO.	
AREAS CHECKED	
DATE	

ORIGINAL SURVEY NO.	
SURVEYED BY	
PLOTTED BY	
TEMPLATE NO.	
AREAS CHECKED	
DATE	



LEGEND

- | | | | |
|---|--|------------------------------------|--|
| 1 LINE 4" (YELLOW SOLID LINE) | 5 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 9 LINE 12" (YELLOW SOLID LINE) | 13 LINE 24" (WHITE STOP BAR) |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 LINE 6" (WHITE SOLID LINE) | 10 LINE 12" (YELLOW DIAGONAL LINE) | 14 LETTERS AND SYMBOLS (TYP.) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 11 LINE 12" (WHITE SOLID LINE) | 15 LINE 6" (WHITE LANE LINE - 3' DASH, 9' SKIP) |
| 4 LINE 4" (WHITE SOLID LINE) | 8 LINE 8" (WHITE SOLID LINE) | 12 LINE 12" (WHITE DIAGONAL LINE) | 16 LINE 4" (YELLOW LANE LINE - 2' DASH, 6' SKIP) |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE POLYUREA UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

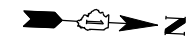
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - SEPT 09, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 RAMP 'A'**

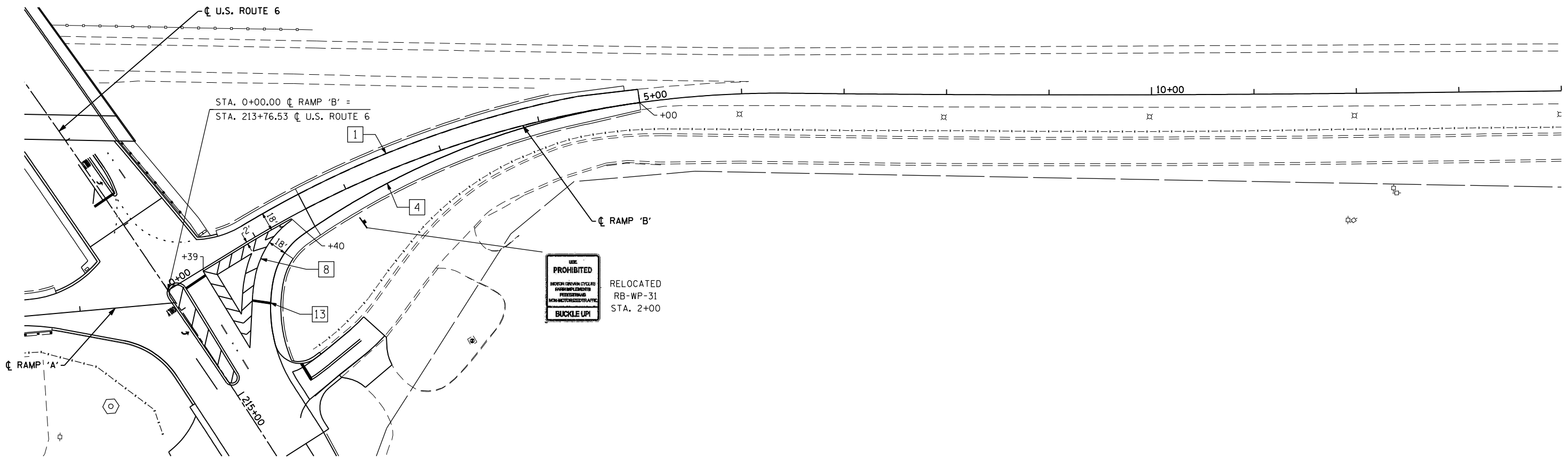
SCALE: SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	119
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



LEGEND

- | | | |
|---|--|--|
| 1 LINE 4" (YELLOW SOLID LINE) | 5 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 9 LINE 12" (YELLOW SOLID LINE) |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 LINE 6" (WHITE SOLID LINE) | 10 LINE 12" (YELLOW DIAGONAL LINE) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 11 LINE 12" (WHITE SOLID LINE) |
| 4 LINE 4" (WHITE SOLID LINE) | 8 LINE 8" (WHITE SOLID LINE) | 12 LINE 12" (WHITE DIAGONAL LINE) |
| | | 13 LINE 24" (WHITE STOP BAR) |
| | | 14 LETTERS AND SYMBOLS (TYP.) |
| | | 15 LINE 6" (WHITE LANE LINE - 3' DASH, 9' SKIP) |
| | | 16 LINE 4" (YELLOW LANE LINE - 2' DASH, 6' SKIP) |

NOTES:

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FILE NAME = D160X84-sht-pmk_ramp'B'.dgn
 PLOT DATE = 9/9/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - SEPT 09, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
 RAMP 'B'**

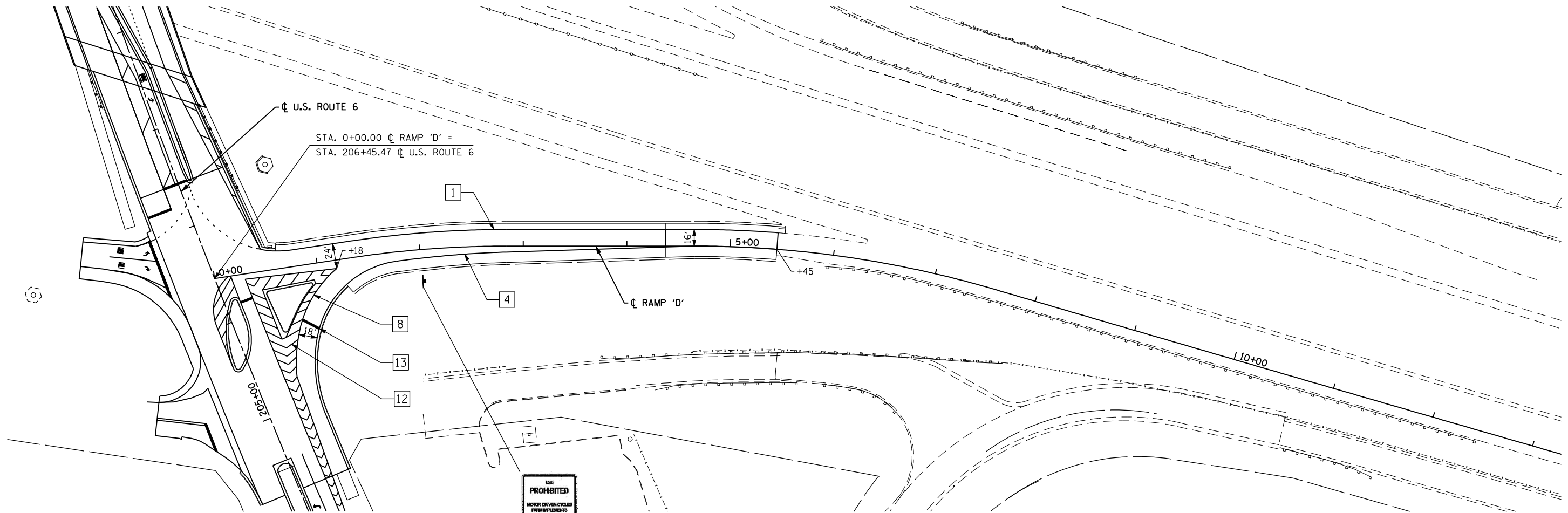
SCALE: SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	120
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NO. _____	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NO. _____	
AREAS CHECKED	



RELOCATED
RB-WP-32
STA. 2+00

LEGEND

- | | | |
|---|--|--|
| 1 LINE 4" (YELLOW SOLID LINE) | 5 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 9 LINE 12" (YELLOW SOLID LINE) |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 LINE 6" (WHITE SOLID LINE) | 10 LINE 12" (YELLOW DIAGONAL LINE) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 11 LINE 12" (WHITE SOLID LINE) |
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| | | 13 LINE 24" (WHITE STOP BAR) |
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| | | 15 LINE 6" (WHITE LANE LINE - 3' DASH, 9' SKIP) |
| | | 16 LINE 4" (YELLOW LANE LINE - 2' DASH, 6' SKIP) |

NOTES:

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- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL FOR TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

FILE NAME = D160X84-sht-pmk_ramp'D'.dgn
PLOT DATE = 9/9/2014
PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - SEPT 09, 2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
RAMP 'D'**

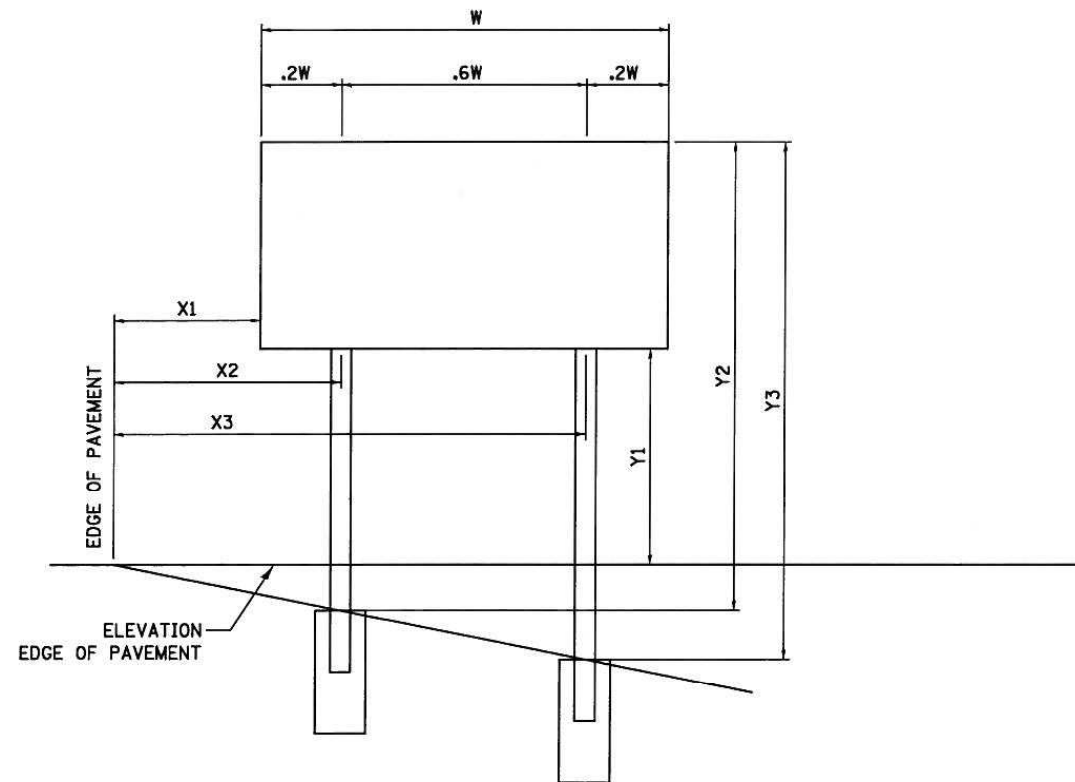
SCALE: SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	121
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BREAK-AWAY WIDE FLANGE STEEL SIGN POST SCHEDULE

SIGN NAME	LOCATION		SIGN DESCRIPTION	SIGN SIZE			X1	X2	X3	Y1	Y2	Y3	NUMBER OF POSTS	POST TYPE	TOTAL LENGTH (Y2+Y3)	72700100	73400100	73700100	73700200	
																STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	CONCRETE FOUNDATION	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION-GROUND MOUNT	
	STATION	OFFSET		W (FT)	D (FT)	(SQ FT)										(FOOT)	(POUNDS)	(CU YD)	(EACH)	(EACH)
US ROUTE 6 @ I-55																				
EB-GM-5	205+00	RT	CHICAGO BLOOMINGTON		13.5	10.5	141.8	12.0	14.7	22.8	7.0	17.5	17.5	2	W10 X 22	35.0	770.0	2.4	2	2
WB-GM-11	208+00	LT	BLOOMINGTON		11.0	7.0	77.0	22.0	24.2	30.8	7.0	15.0	17.0	2	W6 X 15	32.0	480.0	1.4	2	2
EB-GM-14	212+50	RT	CHICAGO		10.0	7.0	70.0	12.0	14.0	20.0	7.0	14.5	16.0	2	W6 X 15	30.5	457.5	1.4	2	2
WB-GM-17	214+80	LT	CHICAGO BLOOMINGTON		13.0	10.5	136.5	19.0	21.6	29.4	7.0	21.0	21.5	2	W12 X 26	42.5	1,105.0	2.8	2	2
RAMP A																				
RA-GM-23	11+50	RT	FOOD		9.5	8.0	76.0	14.0	15.9	21.6	7.0	18.0	20.0	2	W8 X 18	38.0	684.0	1.4	2	2
RA-GM-24A	12+50	RT	MORRIS JOLIET		6.5	4.0	26.0	14.0	15.3	19.2	7.0	13.5	15.0	2	W6 X 15	28.5	427.5	1.4	2	2
RA-GM-24B	12+50	RT	STATE PARK		3.0	3.0	9.0													
RA-GM-27A	13+80	RT	GAS		9.5	6.0	57.0	14.0	15.9	21.6	7.0	16.5	19.5	2	W8 X 18	36.0	648.0	1.4	2	2
RA-GM-27B	13+80	RT	BIODIESEL		2.0	2.0	4.0													
RA-GM-27C	13+80	RT	DIR ARROW	M6-1	1.8	1.3	2.2													
TOTAL																4,572	12.2	14	14	

NOTE : FOR ADDITIONAL DETAILS, SEE STANDARDS BAW-A-1 AND STANDARD BAW-A-2



FILE NAME = D160X84-sht-GM Sign Detail.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.



DESIGNED - S.J.P./K.R.K.
 DRAWN - A.C.S.
 CHECKED - M.P.
 DATE - AUGUST 2014

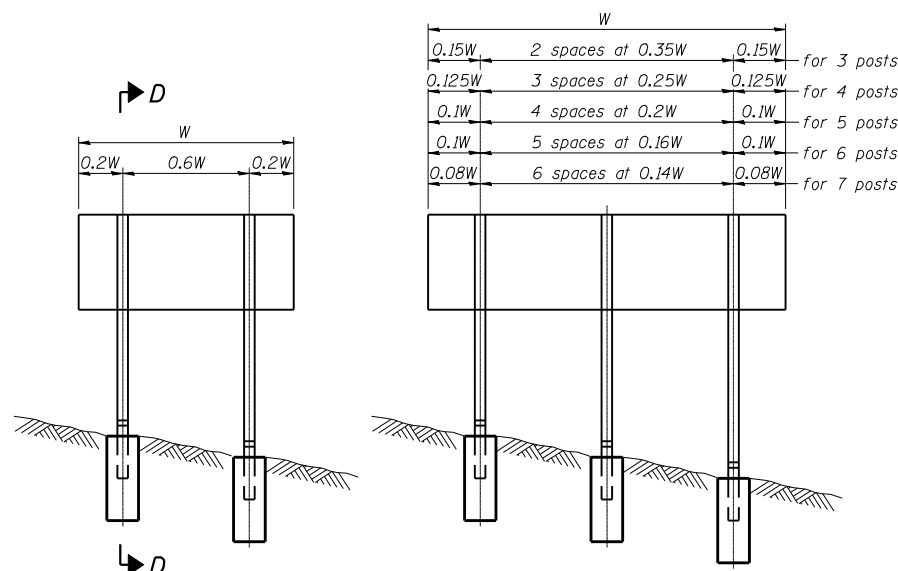
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

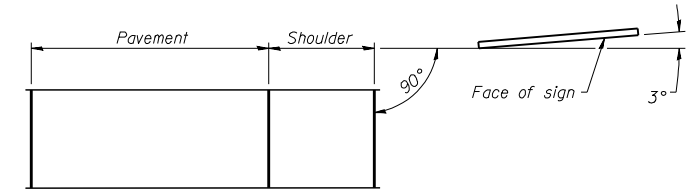
**GROUND MOUNTED SIGN STRUCTURES
 PANEL DETAILS - U.S. 6**

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

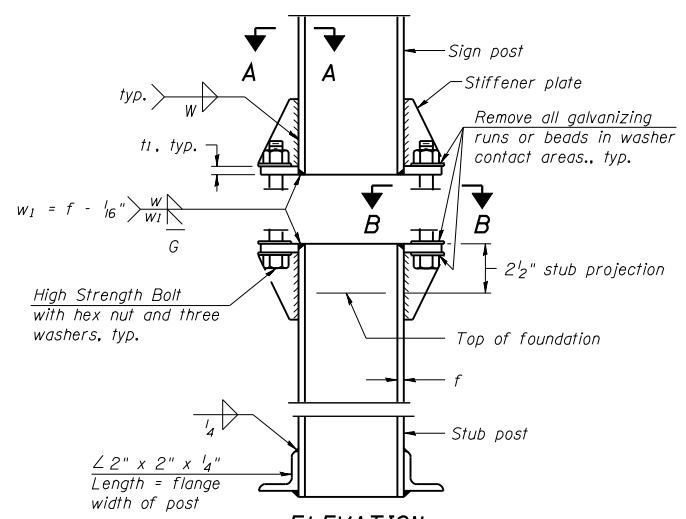
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	122
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	



ELEVATION

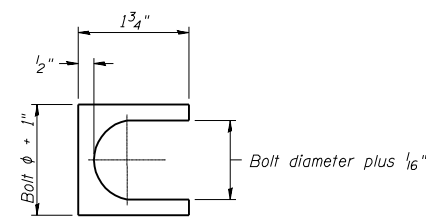


LOCATION SKETCH



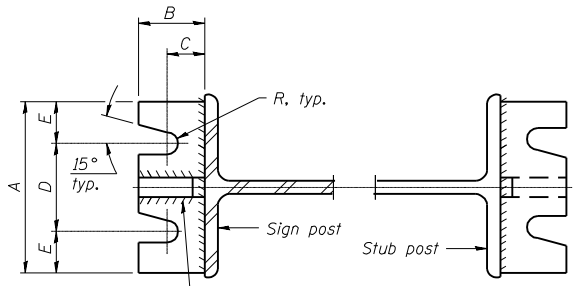
**ELEVATION
SIGN POST & STUB POST**

0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts



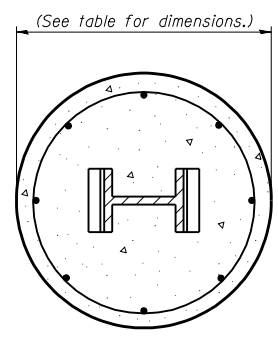
SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

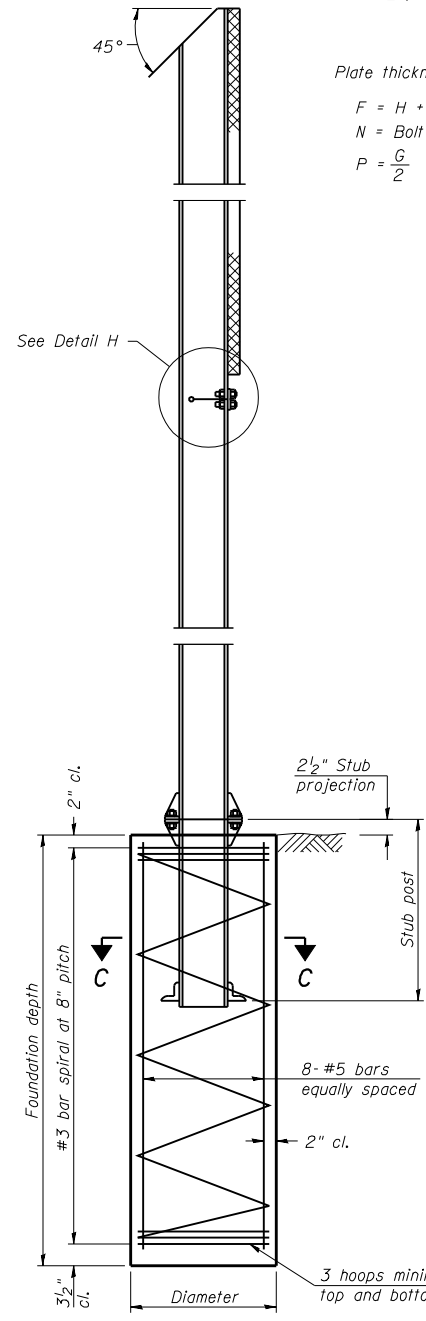


SECTION A-A

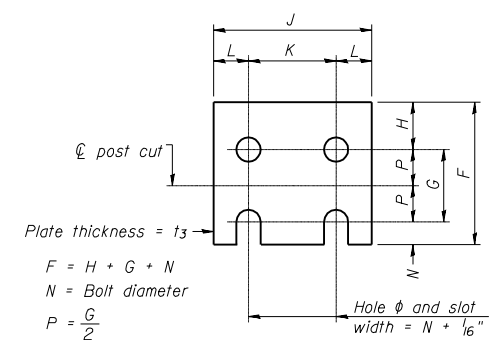
SECTION B-B



SECTION C-C

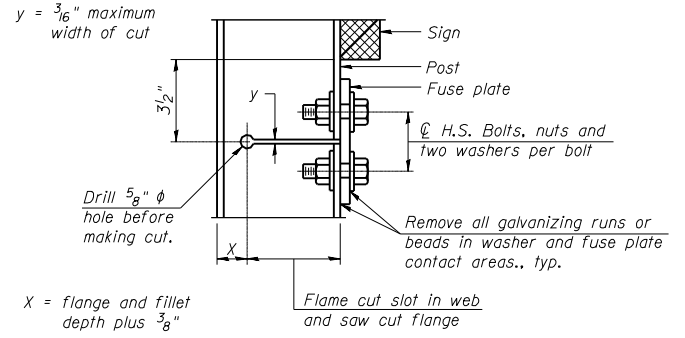


SECTION D-D

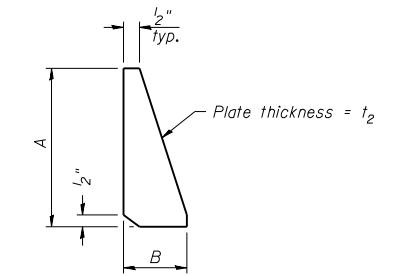


FUSE PLATE DETAIL
(Install with notches down.)

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub steel shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 6-1-12

(Sheet 1 of 2)

FILE NAME = D160X84-sht-sign.stl.post-1.dgn
PLOT DATE = 8/18/2014
PLOT SCALE = 40,0001" / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.
DRAWN - B.K.
CHECKED - M.P.
DATE - AUGUST 2014

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS**

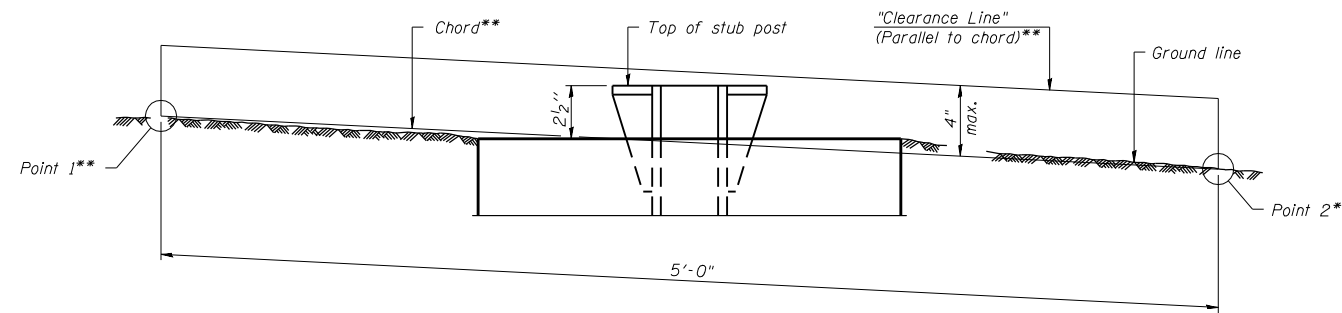
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	123
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃	
	Diameter	Minimum Depth	Concrete (1)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

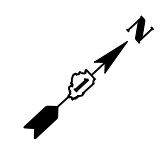
- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

6-1-12

(Sheet 2 of 2)

FILE NAME = D:\6084-sht-sign.stl.post-11.dgn	CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-8274	DESIGNED - S.J.P./K.R.K.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 8/18/2014		DRAWN - B.K.	REVISED -		55	86-1-HBK-BY&R	WILL	271	124				
PLOT SCALE = 40,000 1" / IN.	CHECKED - M.P.	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 60X84						
	DATE - AUGUST 2014	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT										

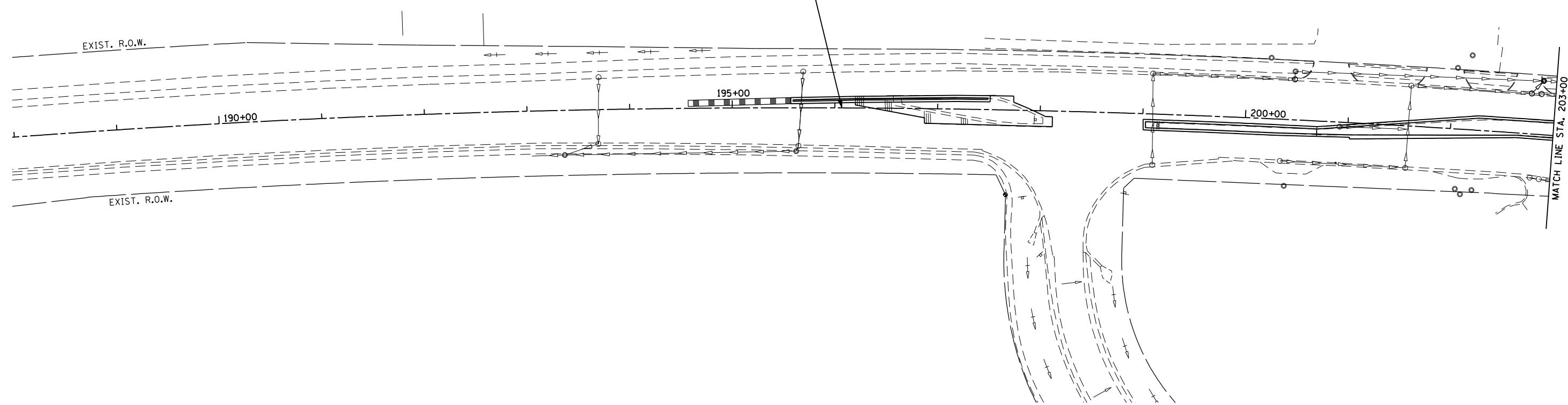


VILLAGE OF CHANNAHON

N.W. FRONTAGE ROAD

AGRICULTURAL

U.S. ROUTE 6



S.W. FRONTAGE ROAD

LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

FILE NAME = D160X84-sht-1a01.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - M.P.	REVISED -
DATE - AUGUST 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
 U.S. 6**

SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	125
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

VILLAGE OF CHANNAHON

N.E. FRONTAGE ROAD

N.W. FRONTAGE ROAD

RAMP C

RAMP B

LIMITS OF CONSTRUCTION

I-55

LIMITS OF CONSTRUCTION

☐ U.S. ROUTE 6

EXIST. R.O.W.

MATCH LINE STA. 203+00

205+00

00+00

210+00

0+00

215+00

MATCH LINE STA. 218+00

LIMITS OF CONSTRUCTION

LIMITS OF CONSTRUCTION

I-55+00

EXIST. R.O.W.

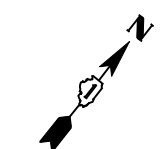
RAMP A

S.E. FRONTAGE ROAD

RAMP D

LEGEND

SEEDING CLASS 2A WITH EROSION CONTROL BLANKET



FILE NAME = D160X84-sht-1a02.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

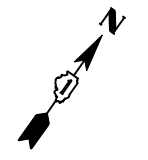
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - M.P.	REVISED -
DATE - AUGUST 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

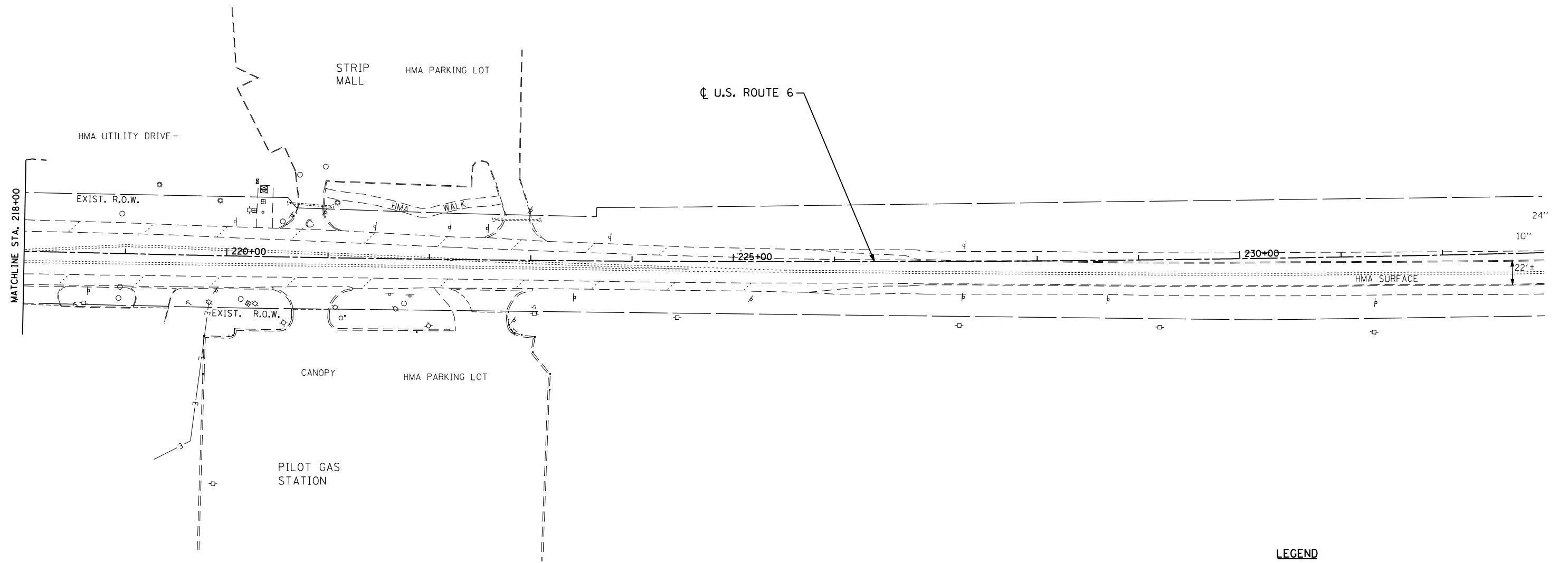
**LANDSCAPING PLAN
 U.S. 6**

SCALE: 1" = 50' SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	126
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



VILLAGE OF CHANNAHON



LEGEND

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

FILE NAME = D160X84-sht-1a03.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - M.P.	REVISED -
DATE - AUGUST 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
U.S. 6

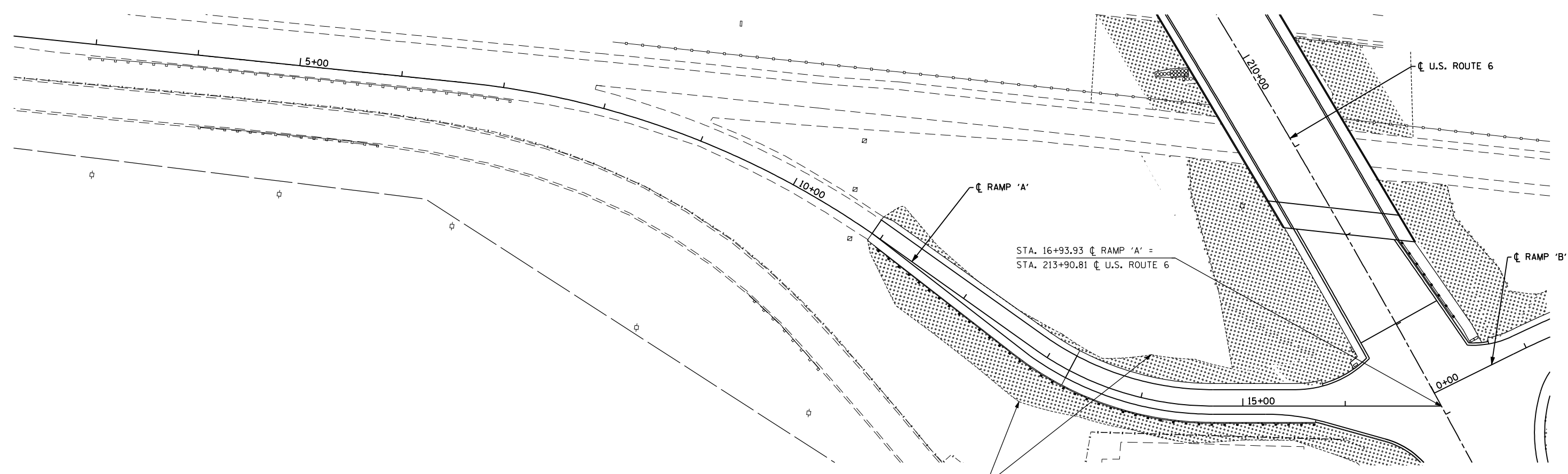
SCALE: 1" = 50' SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	127
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	



FINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



CONSTRUCTION LIMITS

LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

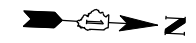
DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - AUGUST 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
 RAMP 'A'**

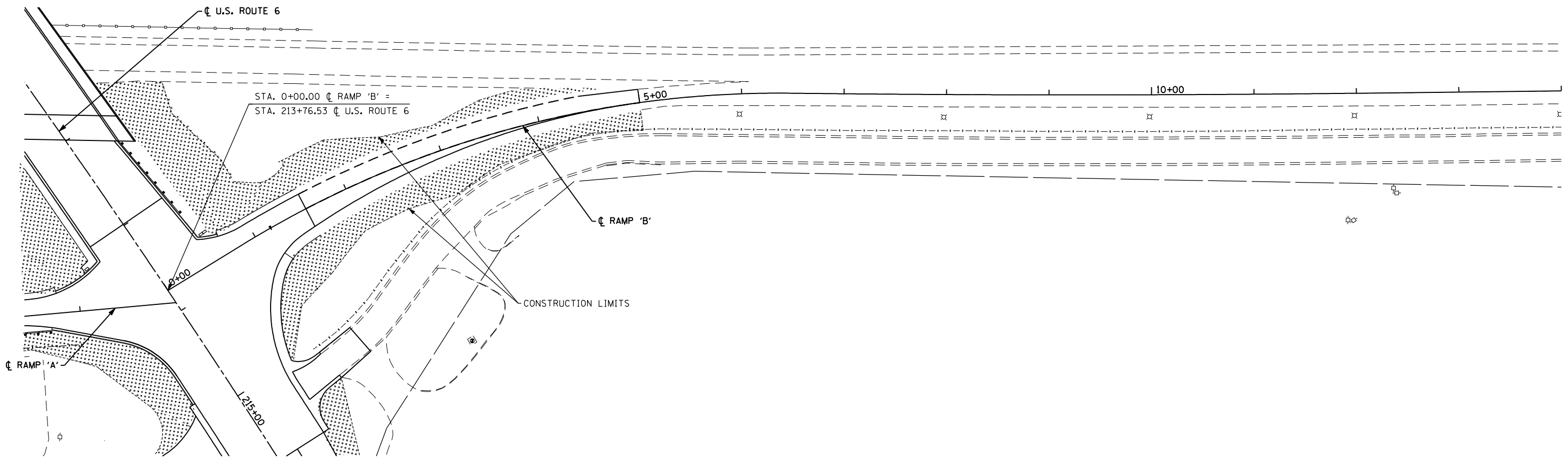
SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	128
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	




FINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		



LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

FILE NAME = D160X84-sht-1s_ramp'B'.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.

CR & A
CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

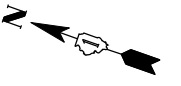
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - AUGUST 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
 RAMP 'B'**

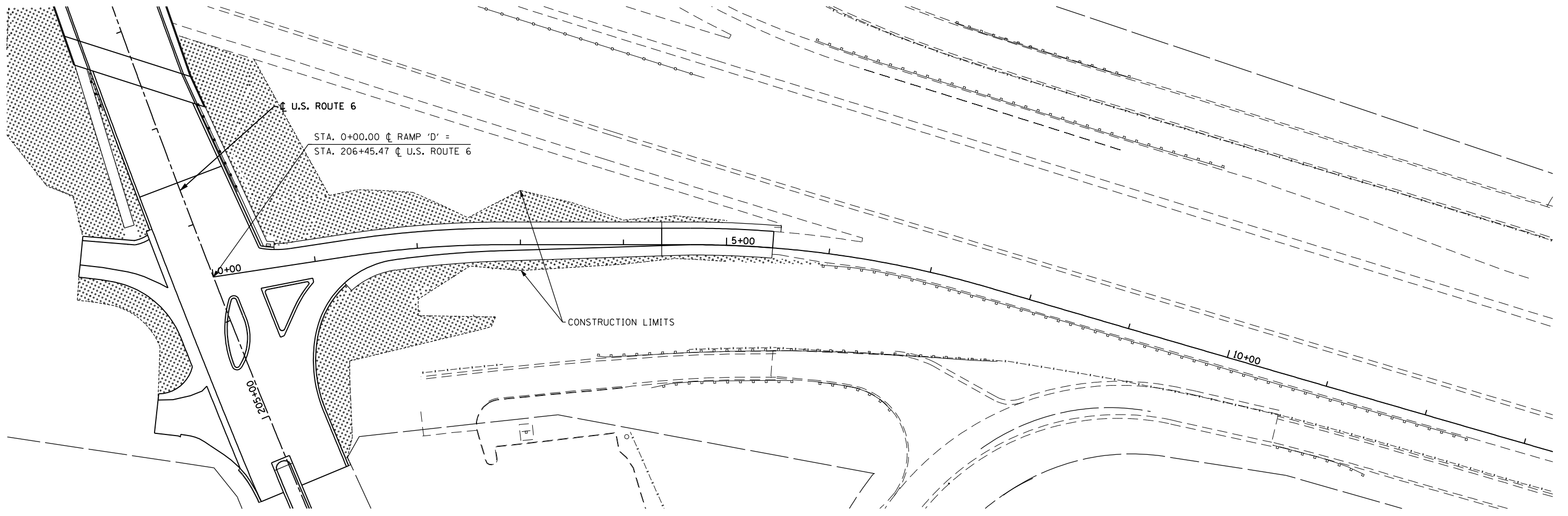
SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	129
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NO. _____		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NO. _____		
AREAS CHECKED		



STA. 0+00.00 ϕ RAMP 'D' =
 STA. 206+45.47 ϕ U.S. ROUTE 6

CONSTRUCTION LIMITS

LEGEND

SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

FILE NAME = D160X84-sht-1s_ramp'D'.dgn
 PLOT DATE = 8/18/2014
 PLOT SCALE = 100.0000' / IN.

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-8274

DESIGNED - S.J.P./K.R.K.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - E.J.M.	REVISED -
DATE - AUGUST 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
RAMP 'D'

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	130
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

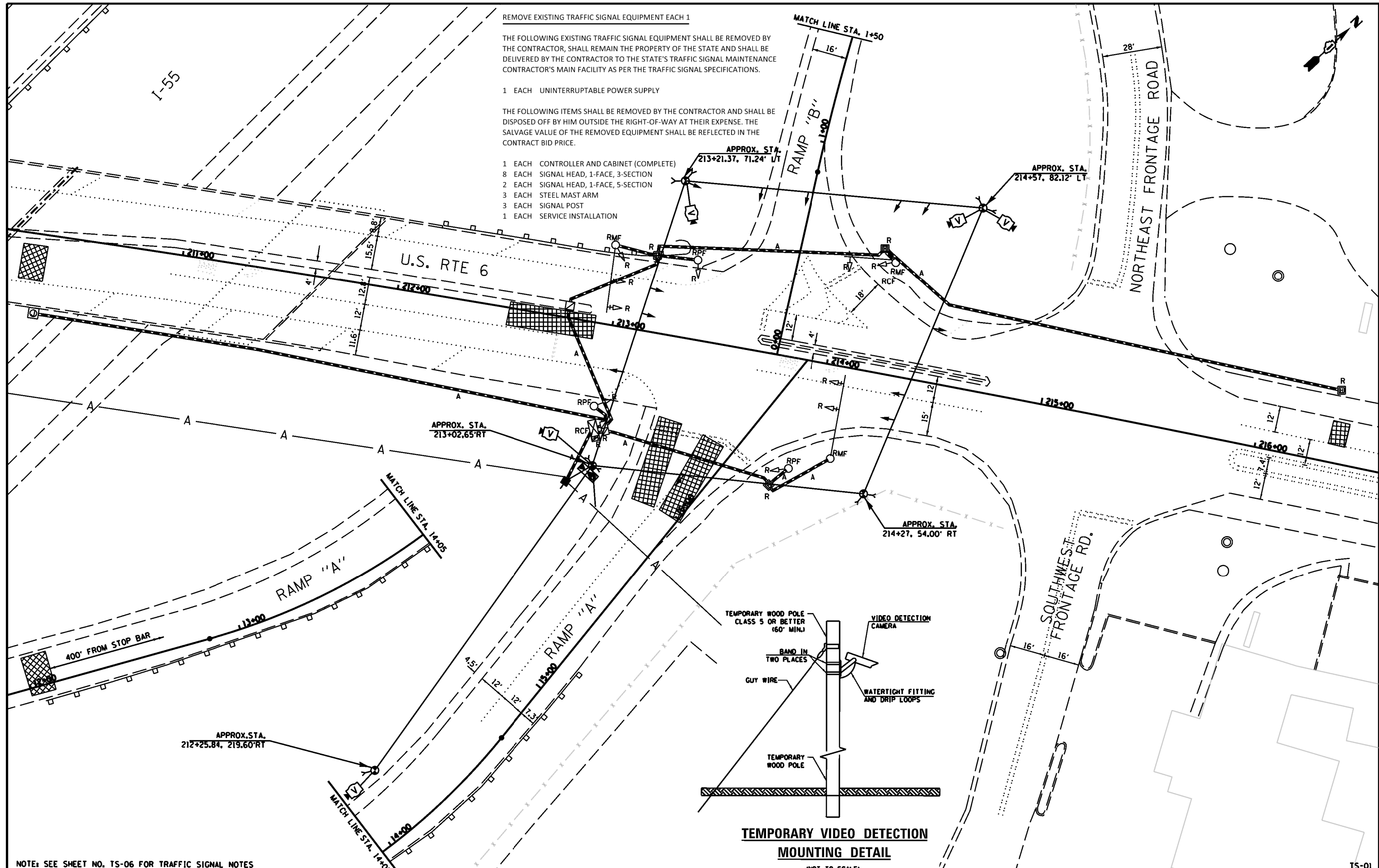
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1 EACH UNINTERRUPTABLE POWER SUPPLY

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH STEEL MAST ARM
- 3 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION



NOTE: SEE SHEET NO. TS-06 FOR TRAFFIC SIGNAL NOTES

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

SPAAN Tech, Inc.
 311 South Wacker Drive, Suite 2400
 Chicago, IL 60606
 phone: 312.277.8800
 fax: 312.277.8808
 web: www.spaan-tech.com

DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

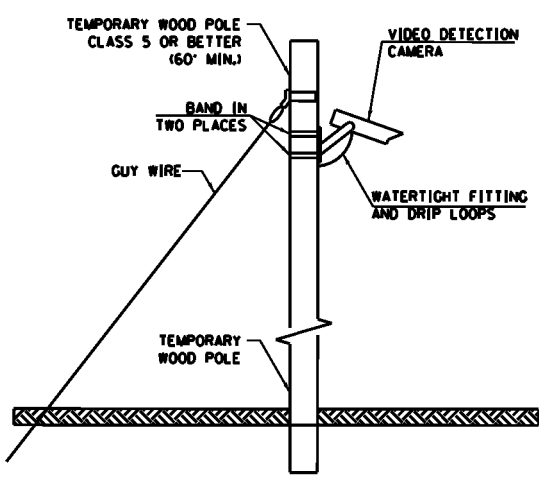
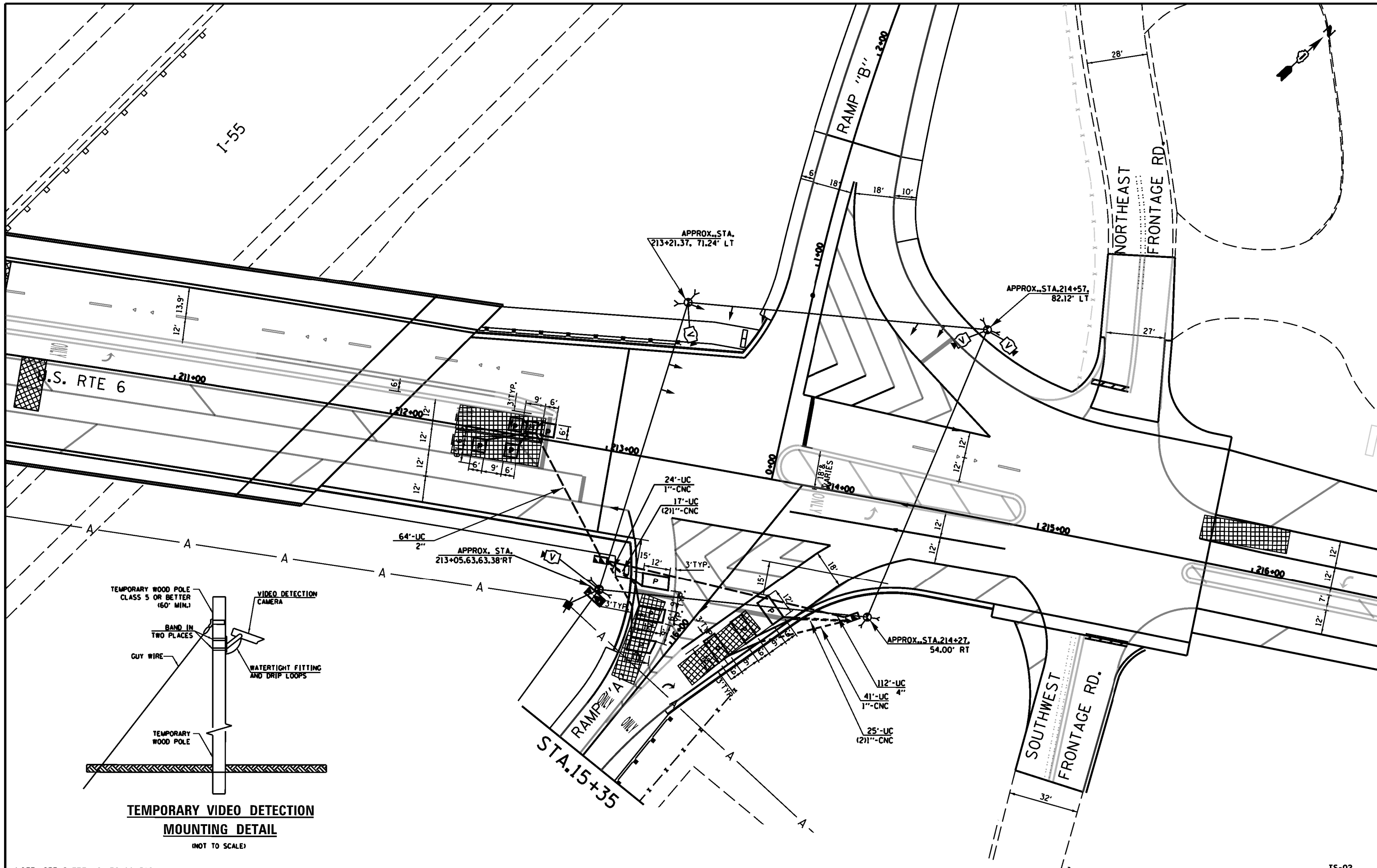
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
 REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 U.S. RTE 6 AND I-55 RAMPS "A" & "B"
 SCALE: 1" = 20'
 SHEET NO. 131 OF 271 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 86-1-MHX-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 131
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = TS-1 TEMPORARY SIGNAL PLAN - RAMPS A & B EXISTING.dgn
 PLOT DATE = 9/12/2014
 PLOT SCALE = 48.0000" / 1"

TS-01



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)

NOTE: SEE SHEET NO. TS-06 FOR TRAFFIC SIGNAL NOTES

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

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311 South Wacker Drive, Suite 2400
Chicago, IL 60606
phone: 312.277.8800
fax: 312.277.8800
web: www.spaan-tech.com

DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AT
END OF COMPLETE CONTRACT CONSTRUCTION
U.S. RTE 6 AND I-55 RAMPS "A" & "B"

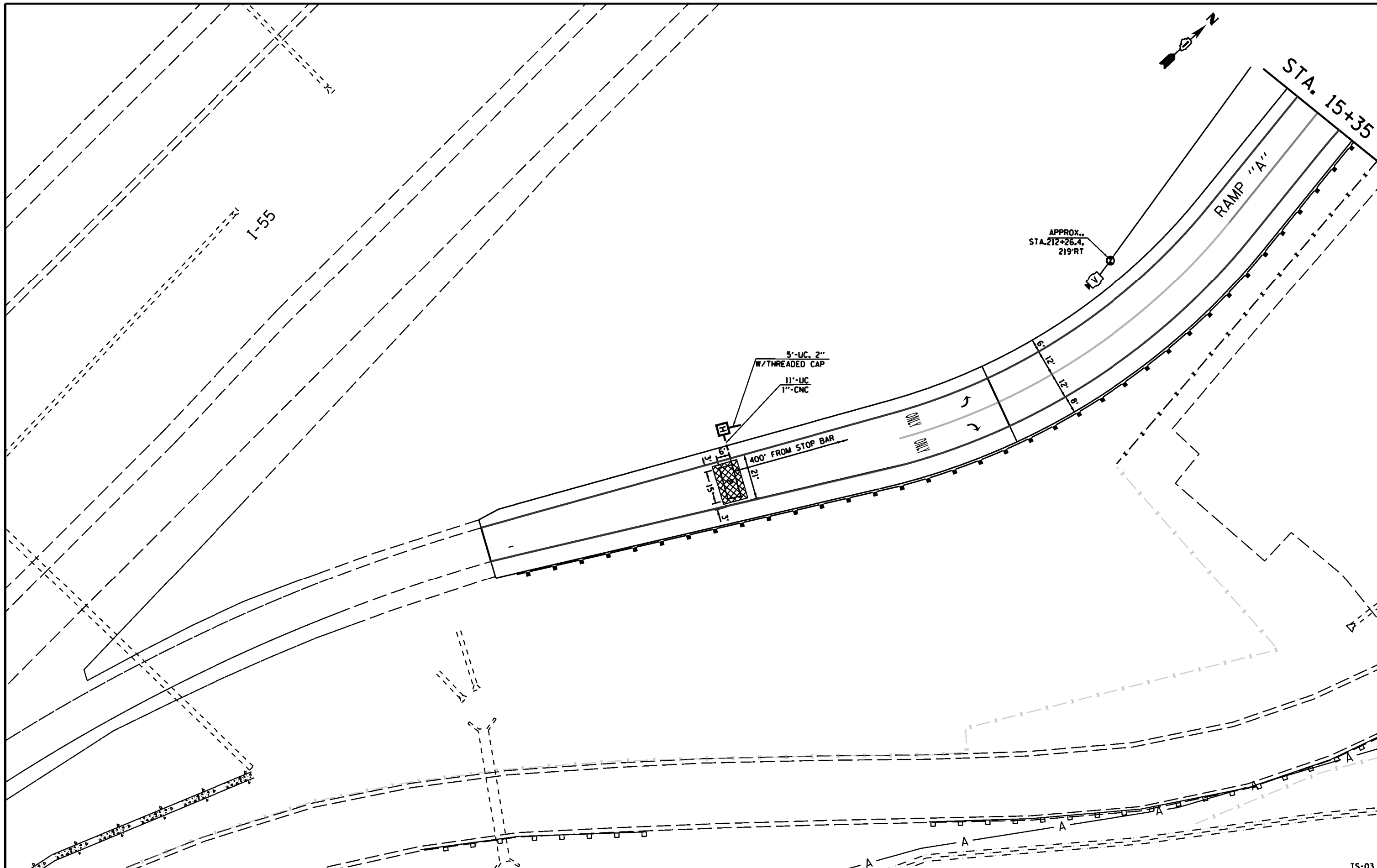
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION 86-1-MHX-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 132
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS-02

FILE NAME = TS-2 TEMPORARY SIGNAL PLAN - RAMPS A & B 1 of 2 - contract | bulloiddgn
 PLOT DATE = 9/12/2014
 PLOT SCALE = 48.0000" / 1"

FILE NAME = TS-3 TEMPORARY SIGNAL PLAN - RAMPS A & B 2 of 2 * contract | builtout.dgn
 PLOT DATE = 9/12/2014
 PLOT SCALE = 48,0000' / 1"



CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

SPAAN Tech, Inc.
 311 South Wacker Drive, Suite 2400
 Chicago, IL 60606
 phone: 312.277.8800
 fax: 312.277.8808
 web: www.spaan-tech.com

DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AT
 END OF COMPLETE CONTRACT CONSTRUCTION
 U.S. RTE 6 AND I-55 RAMPS "A" & "B"**

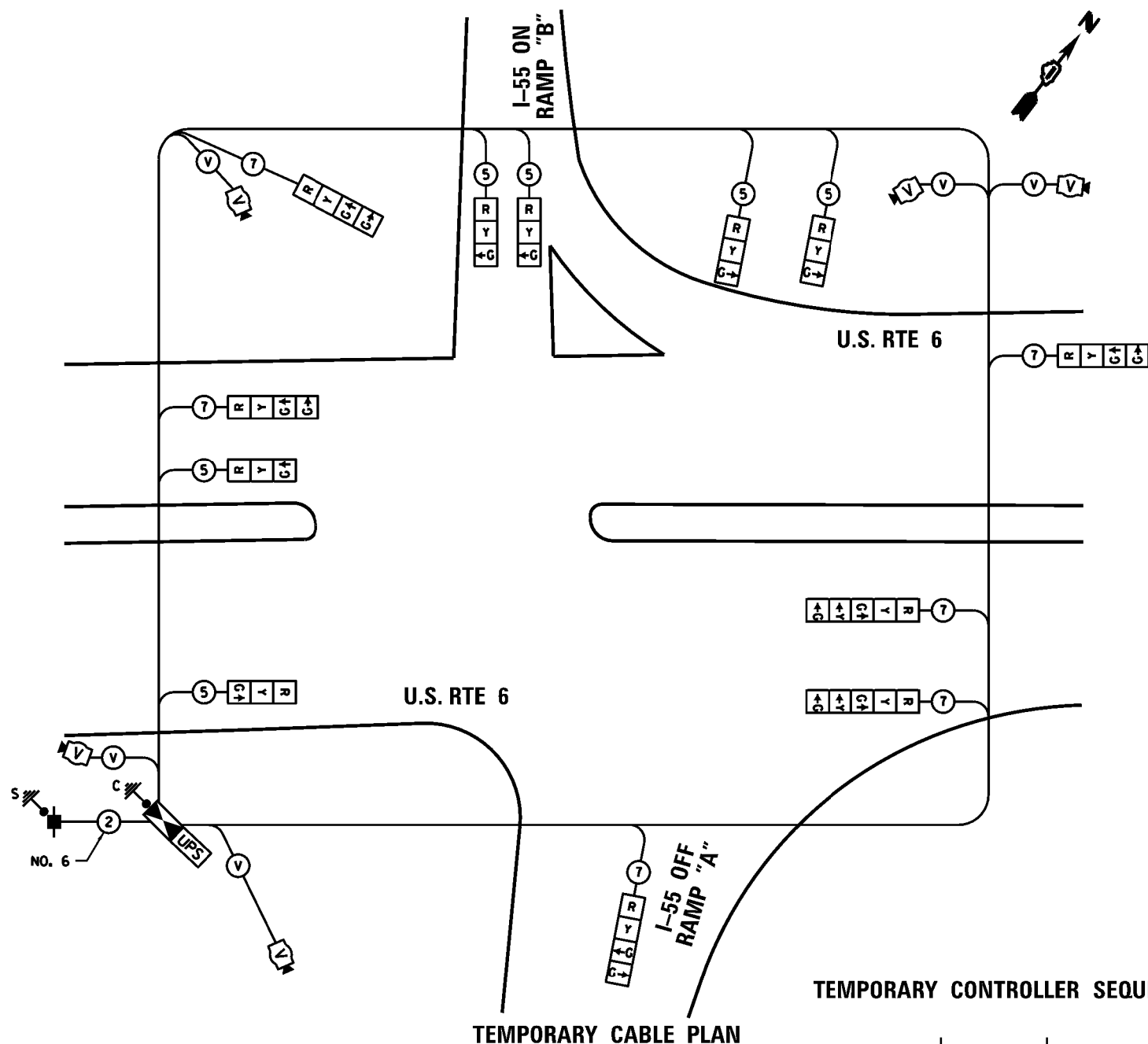
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MHX-BY&R	WILL	271	133
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS-03

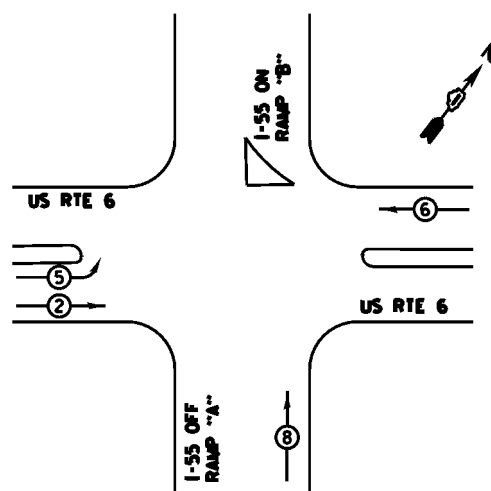
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	69
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	112
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SPAN WIRE	FOOT	539
TETHER WIRE	FOOT	539
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	15
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	1,310
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	1,005
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	700
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	7
PREFORMED DETECTOR LOOP	FOOT	467
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
WOOD POLE, 45 FT, CLASS 5	EACH	1
WOOD POLE, 60 FT, CLASS 4	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	6
SIGNAL HEAD ,LED, 1-FACE 4-SECTION, SPAN WIRE MOUNTED	EACH	3
SIGNAL HEAD ,LED, 1-FACE 5-SECTION, SPAN WIRE MOUNTED		3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1



TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	14		25	0.25	87.5
(GREEN)	18		15	0.25	67.5
ARROW	-		12	0.10	-
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1		150	1.00	150.00
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 507

VILLAGE OF CHANNAHON
 24555 S. NAVAJO DRIVE
 CHANNAHON, ILLINOIS 60410
 ENERGY SUPPLY: CONTACT: MARK ANDERSON
 PHONE: 815-724-5988
 COMPANY: COMED

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

FILE NAME = TS-4 TEMPORARY CABLE PLAN - Ramps AB.dgn
 PLOT DATE = 9/12/2014
 PLOT SCALE = 48,0000' / 1"

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

SPAAN Tech, Inc.
 311 South Wacker Drive, Suite 2400
 Chicago, IL 60606
 phone: 312.277.8800
 fax: 312.277.8808
 web: www.spaan-tech.com

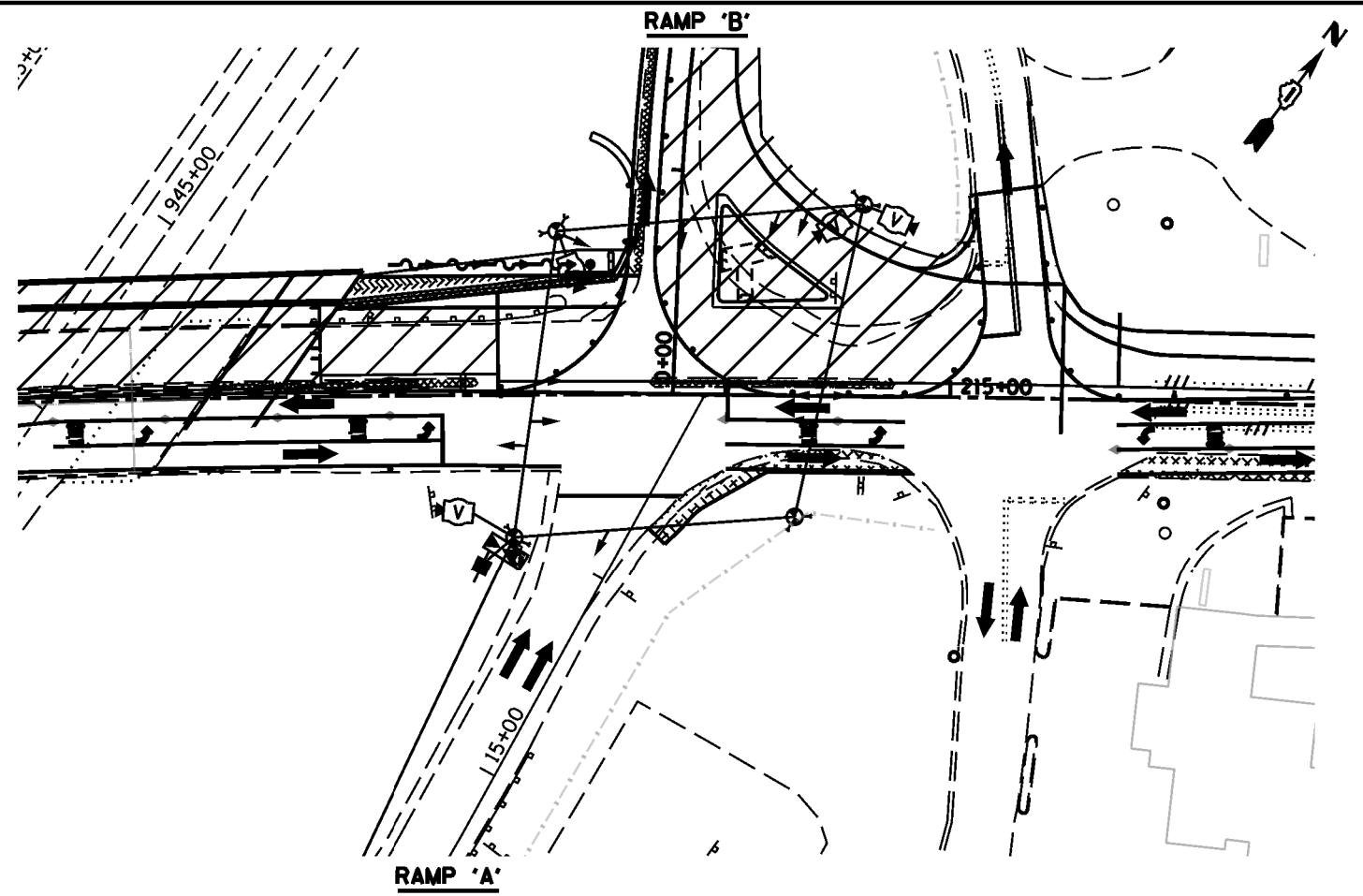
DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
 AND SCHEDULE OF QUANTITIES
 U.S. RTE 6 AND I-55 RAMPS "A" & "B"

F.A.R. RTE. 55	SECTION 86-1-M&B-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 134
SCALE: N.T.S.			CONTRACT NO. 60X84	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	
NO. _____	
DESIGNED	
DRAWN	
CHECKED	
DATE	



STAGE I U.S. 6 AT RAMP 'A'

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	
NO. _____	
DESIGNED	
DRAWN	
CHECKED	
DATE	

FILE NAME : 0160x84-STAGE I, RAMP 'A' & 'B'.dgn
 PLOT DATE : 9/9/2014
 PLOT SCALE : 80.0000 ' / 1"

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - B.BER	REVISED -
DRAWN - B.BER	REVISED -
CHECKED - B.BER	REVISED -
DATE - MAY 2014	REVISED -

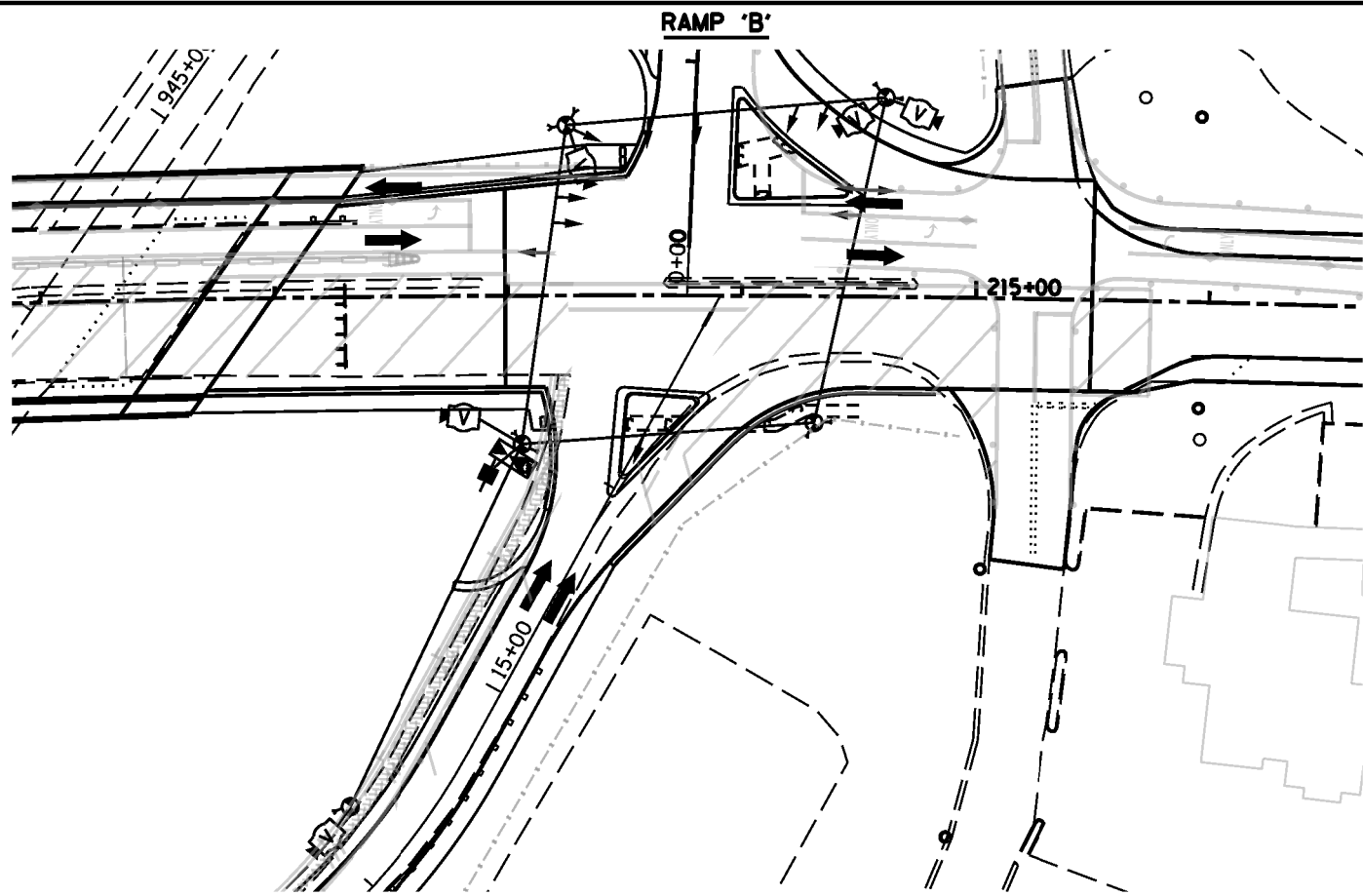
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SPAN WIRE TRAFFIC SIGNAL INSTALLATION
 STAGE I
 U.S. 6 AT RAMPS 'A' & 'B'

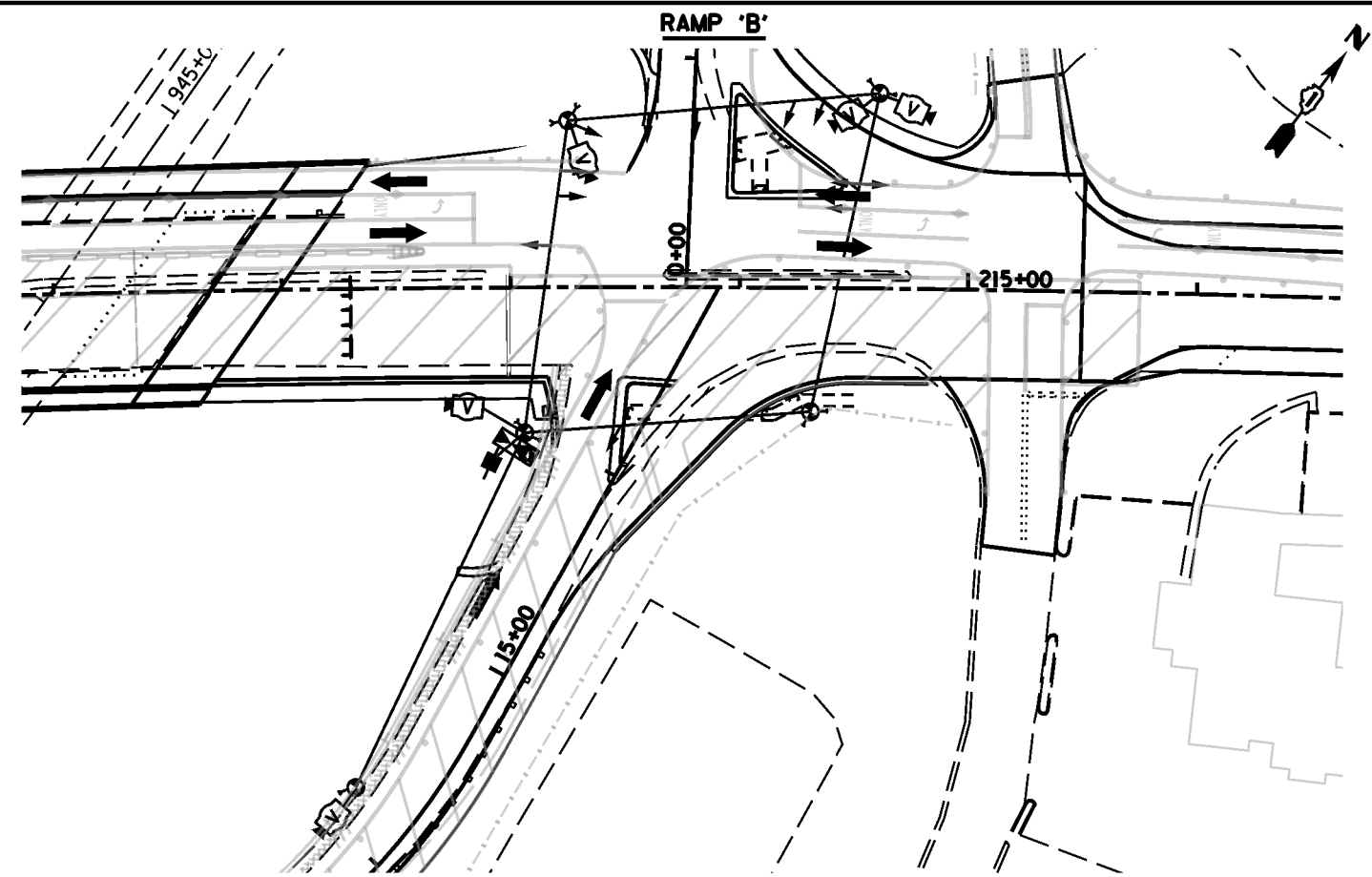
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MHX-BY&R	WILL	134A	271
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

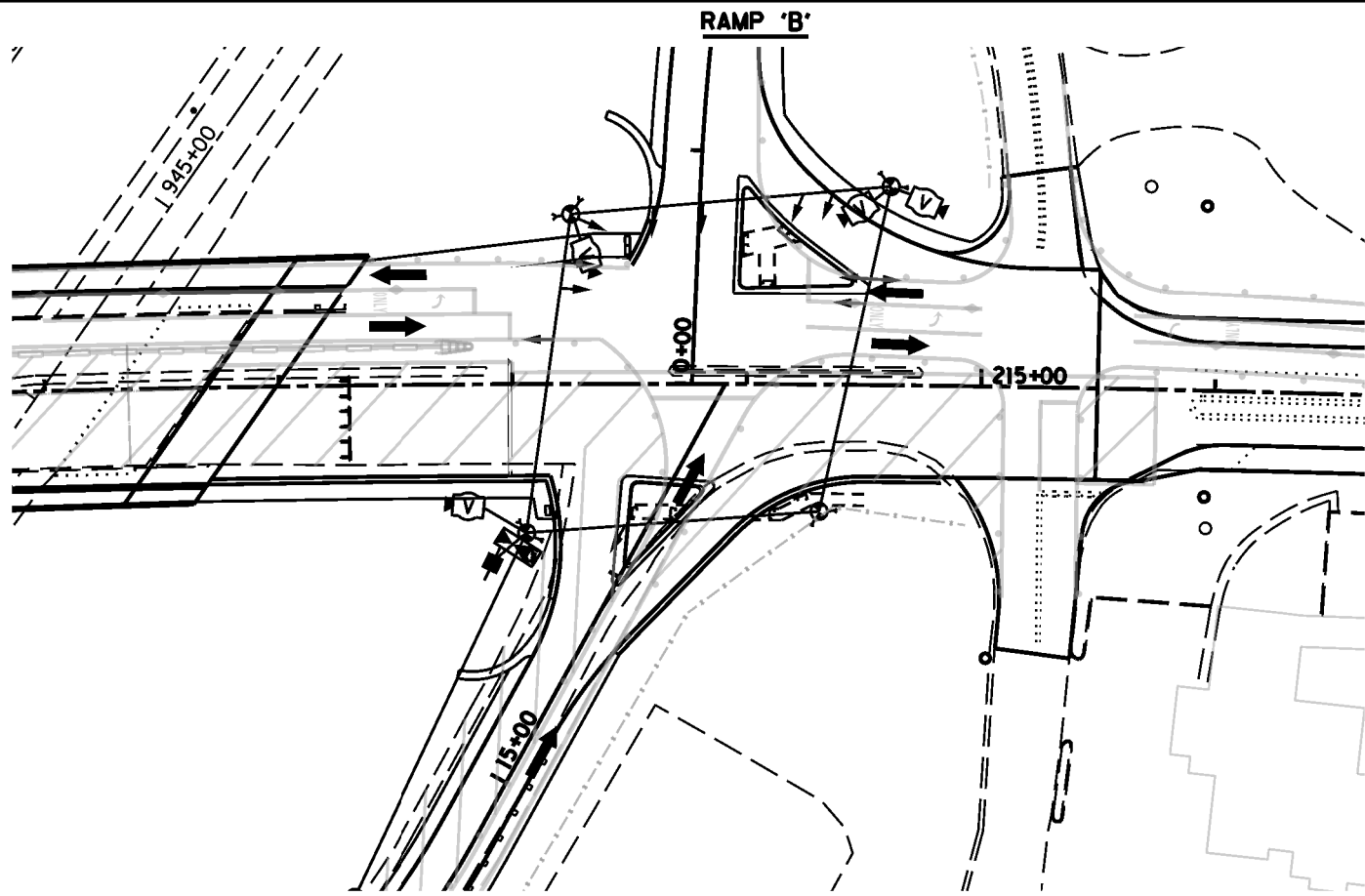


RAMP 'A' STAGE II U.S. 6 AT RAMP 'A'



RAMP 'A' STAGE II U.S. 6 AND STAGE 2A RAMP 'A'

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	



RAMP 'A' STAGE II U.S. 6 AND STAGE 2B RAMP 'A'

FILE NAME: 0168X84-STAGE.2-RAMP'A&'B'.dgn
 PLOT DATE: 9/9/2014
 PLOT SCALE: 88.0000 1/4" = 1'

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - B.B.R.	REVISED -
DRAWN - B.B.R.	REVISED -
CHECKED - B.B.R.	REVISED -
DATE - MAY 2014	REVISED -

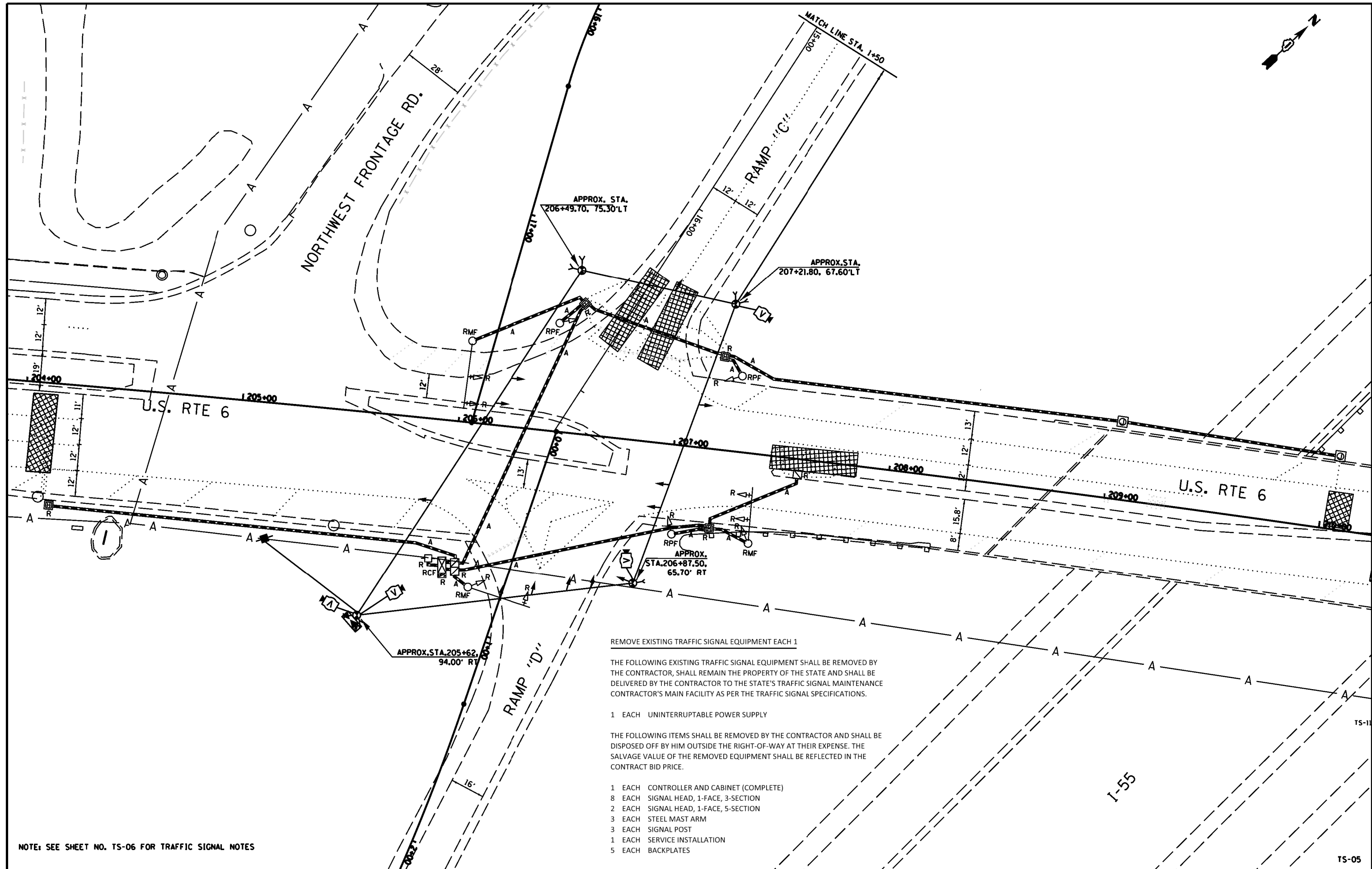
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SPAN WIRE TRAFFIC SIGNAL INSTALLATION
 STAGE II
 U.S. 6 AT RAMP A & B

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MHX-BY&R	WILL	134B	271
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = TS-5 TEMPORARY SIGNAL PLAN - RAMP C & D - existing 1 of 2.dgn
 PLOT DATE = 9/12/2014
 PLOT SCALE = 48,0000' / 1" =



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH UNINTERRUPTABLE POWER SUPPLY

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 8 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH STEEL MAST ARM
- 3 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 5 EACH BACKPLATES

NOTE: SEE SHEET NO. TS-06 FOR TRAFFIC SIGNAL NOTES

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

SPAAN Tech, Inc.
 311 South Wacker Drive, Suite 2400
 Chicago, IL 60606
 phone: 312.277.8800
 fax: 312.277.8800
 web: www.spaan-tech.com

DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

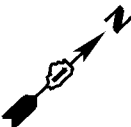
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
 REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 U.S. RTE 6 AND I-55 RAMP "C" & "D"**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MHX-BY&R	WILL	271	135
			CONTRACT NO. 60X84	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS-05



TRAFFIC SIGNAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

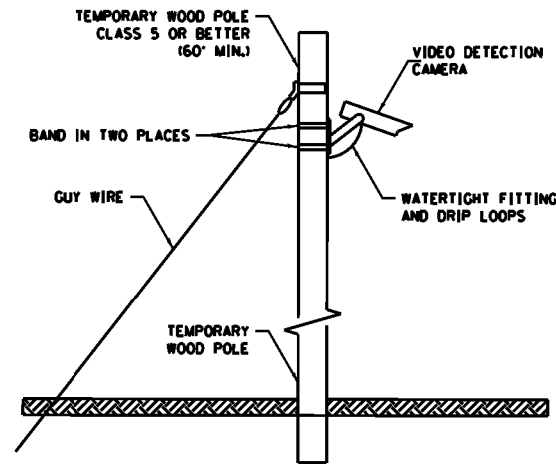
IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

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

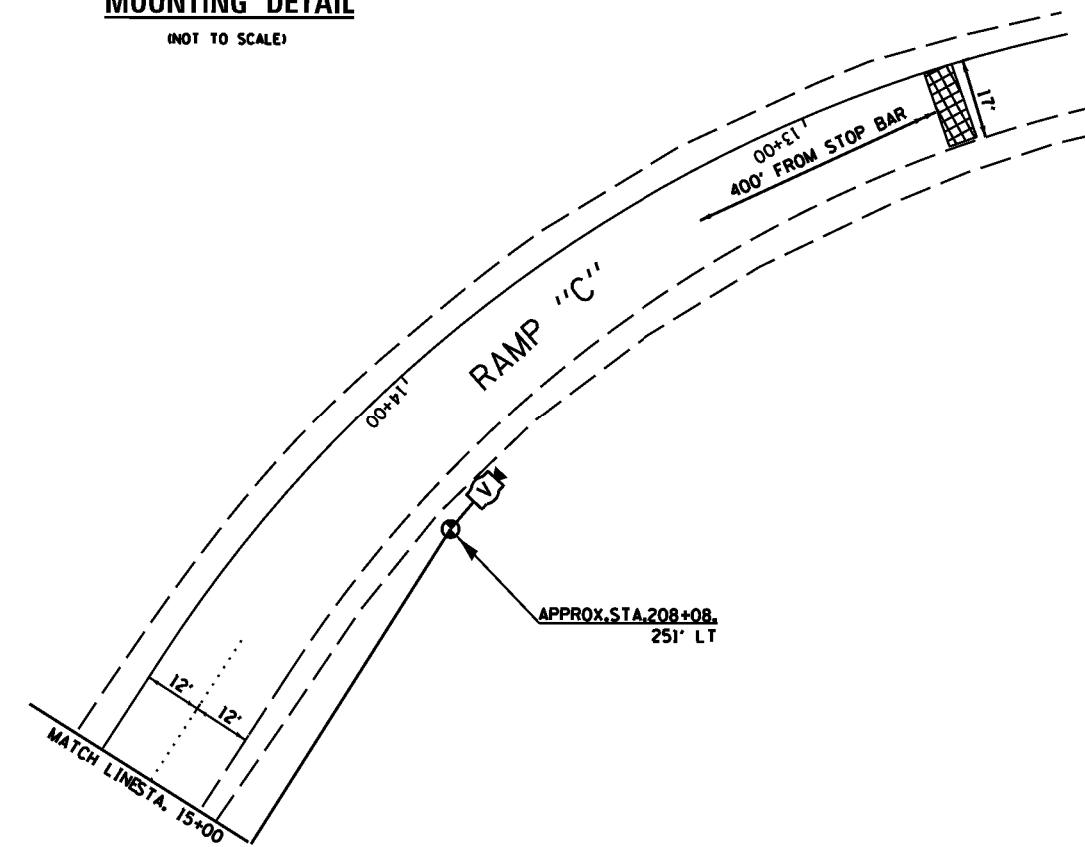
PERFORMED DETECTOR LOOPS, HANDHOLES AND CONDUIT TO BE CONSTRUCTED UNDER THIS CONTRACT, FOR LATER CONNECTION WITH PERMANENT TRAFFIC SIGNAL INSTALLATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE, ALIGN, AND REMOVE SIGNAL HEADS ASSEMBLIES AS REQUIRED TO FOLLOW THE ARRANGEMENT SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. APPROX. (50) FIFTY FT OF EXTRA CABLE SHALL BE PROVIDED ON THE SPAN WIRE FOR EACH SIGNAL HEAD ASSEMBLY TO FACILITATE RELOCATION DURING CONSTRUCTION STAGING. THIS SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.

VIDEO DETECTION ZONES SHALL BE PROGRAMMED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)



FILE NAME = TS-6 TEMPORARY SIGNAL PLAN - RAMPS C & D - existing 2 of 2.dgn
PLOT DATE = 8/12/2014
PLOT SCALE = 1/8" = 1' / in.

 CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	 SPAAN Tech, Inc. 311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8808 web: www.spaan-tech.com
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DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

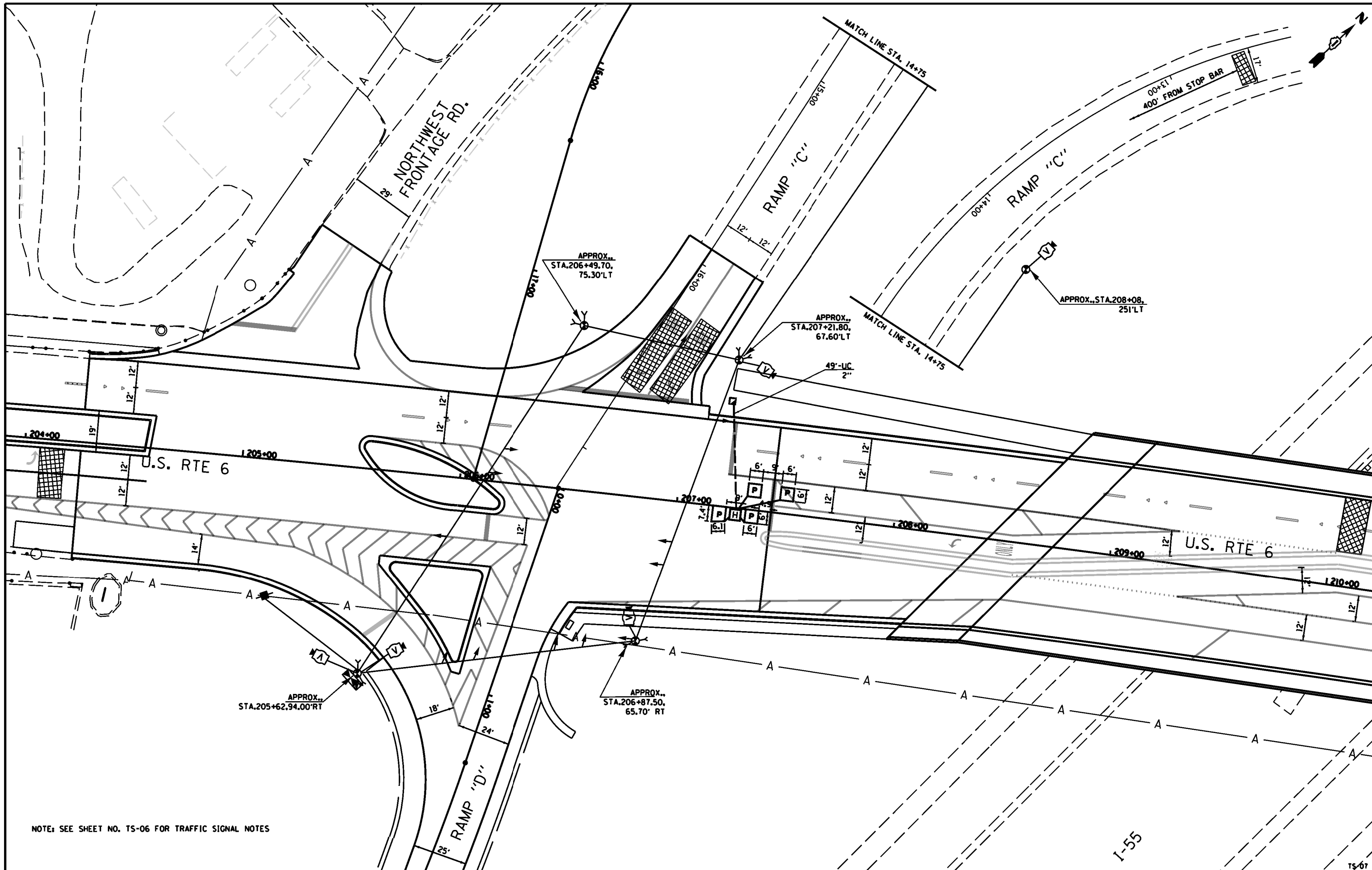
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
U.S. RTE 6 AND I-55 RAMPS "C" & "D"**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MBK-BY&R	WILL	271	136
CONTRACT NO. 60X84				

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



NOTE: SEE SHEET NO. TS-06 FOR TRAFFIC SIGNAL NOTES

FILE NAME = TS-7 TEMPORARY SIGNAL PLAN - RAMPS C & D - contract | bul | out.dgn
 PLOT DATE = 9/12/2014
 PLOT SCALE = 48,0000' / 1"

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312) 372-2023 FAX: (312) 372-5274

SPAAN Tech, Inc.
 311 South Wacker Drive, Suite 2400
 Chicago, IL 60606
 phone: 312.277.8800
 fax: 312.277.8800
 web: www.spaan-tech.com

DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

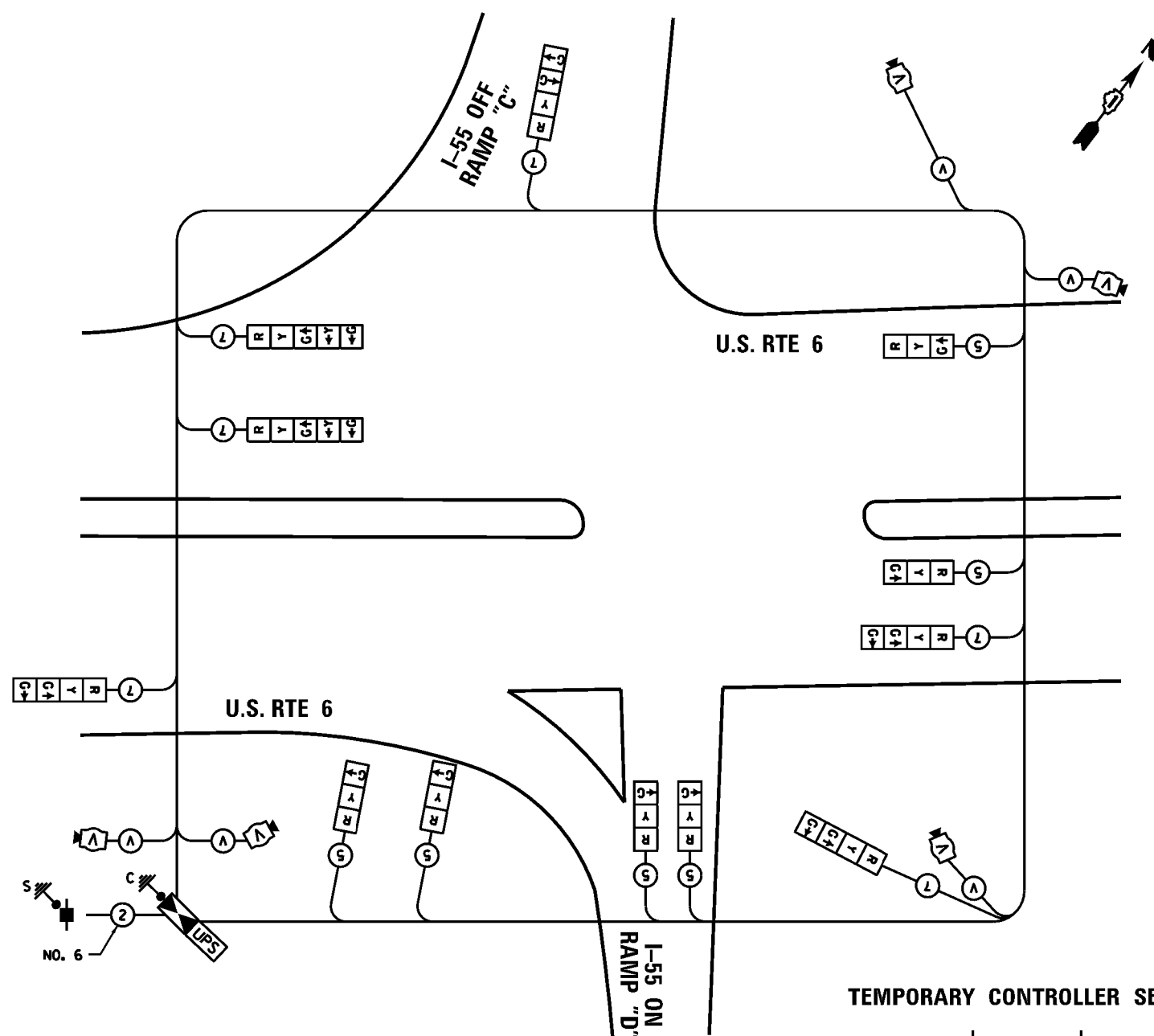
TEMPORARY TRAFFIC SIGNAL INSTALLATION AT
 END OF COMPLETE CONTRACT CONSTRUCTION
 U.S. RTE 6 AND I-55 RAMPS "C" & "D"

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

F.A.I. RTE. 55	SECTION 86-1-M&R-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 137
CONTRACT NO. 60X84			TS-07	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TS-08				

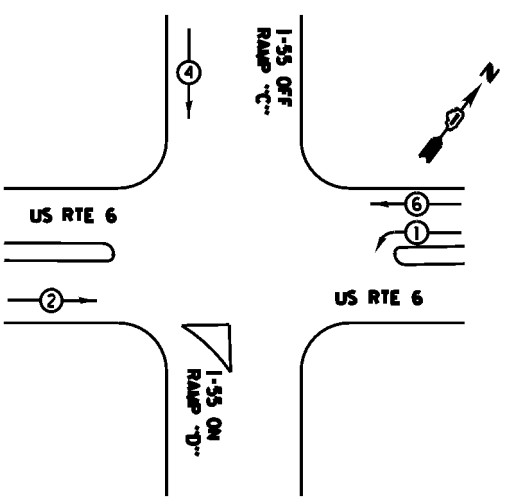
SUMMARY OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	49
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SPAN WIRE	FOOT	526
TETHER WIRE	FOOT	529
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	75
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	1,302
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	995
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	200
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	3
PREFORMED DETECTOR LOOP	FOOT	127
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
WOOD POLE, 45 FT, CLASS 5	EACH	1
WOOD POLE, 60 FT, CLASS 4	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	6
SIGNAL HEAD ,LED, 1-FACE 4-SECTION, SPAN WIRE MOUNTED	EACH	3
SIGNAL HEAD ,LED, 1-FACE 5-SECTION, SPAN WIRE MOUNTED		3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

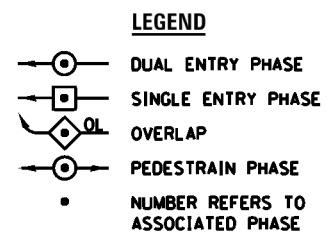


TEMPORARY CABLE PLAN

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	% OPERATION		
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	14		25	0.25	87.5
(GREEN)	18		15	0.25	67.5
ARROW	-		12	0.10	-
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1		150	1.00	150.00
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	507

VILLAGE OF CHANNAHON
 24555 S. NAVAJO DRIVE
 CHANNAHON, ILLINOIS 60410
 ENERGY SUPPLY: CONTACT: MARK ANDERSON
 PHONE: 815-724-5988
 COMPANY: COMED

FILE NAME: TS-8 TEMPORARY CABLE PLAN - Ramps C&D.dgn
 PLOT DATE: 9/12/2014
 PLOT SCALE: 48.0000 / 1"

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

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 311 South Wacker Drive, Suite 2400
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 web: www.spaanTech.com

DESIGNED - MA	REVISED -
DRAWN - CADD	REVISED -
CHECKED - MA	REVISED -
DATE - AUGUST 2014	REVISED -

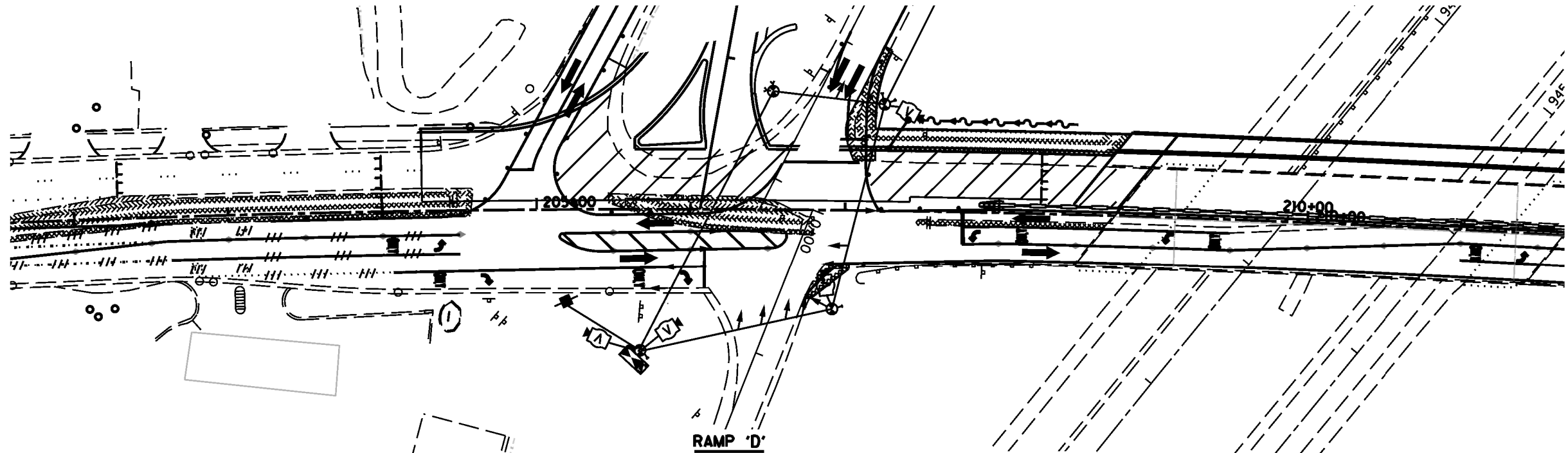
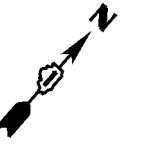
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
 AND SCHEDULE OF QUANTITIES
 U.S. RTE 6 AND I-55 RAMPS "C" & "D"
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. - TO STA. -

F.A.I. RTE. 55	SECTION 86-1-MBX-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 138
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

N.W. FRONTAGE ROAD

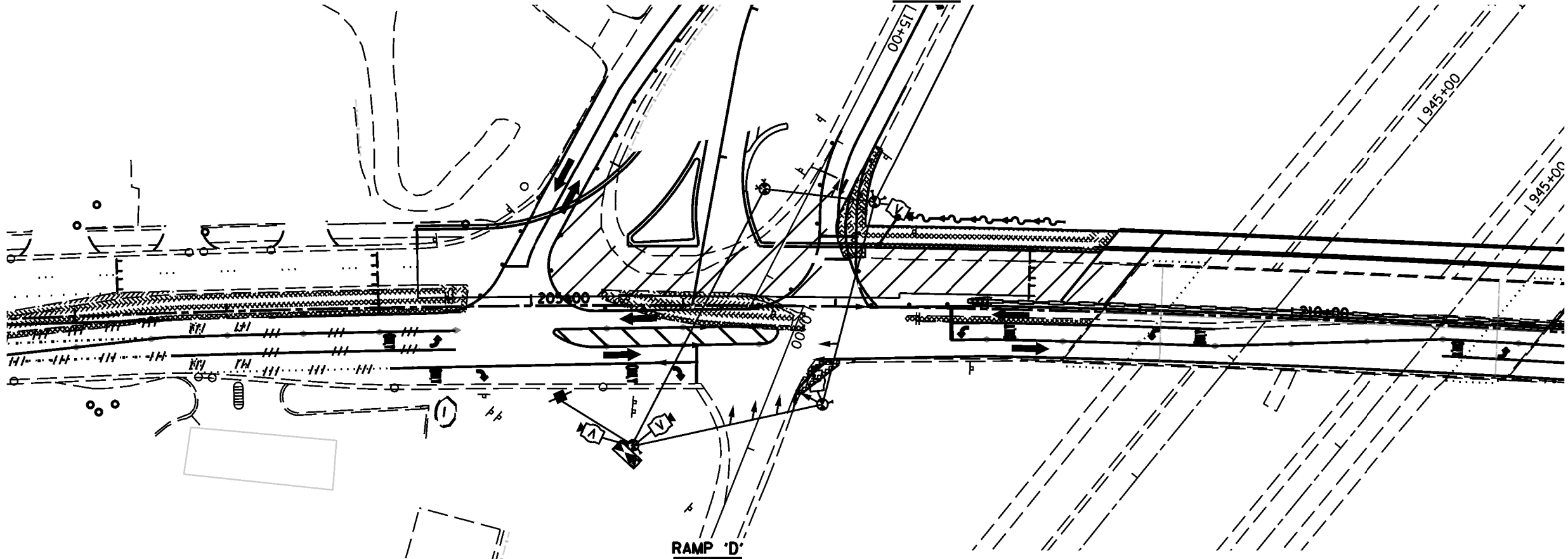
RAMP 'C'



STAGE I - U.S. 6 AT RAMP C/D

N.W. FRONTAGE ROAD

RAMP 'C'



STAGE IA - U.S. 6 AT STAGE IA RAMP C/D

DATE	
BY	
FINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
NO.	
DATE	
BY	
SAVED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
NO.	
DATE	
BY	
SAVED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE NAME : 0160X84-STAGE.1A1A.RAMP'C.dwg
 PLOT DATE : 9/9/2014
 PLOT SCALE : 80.0000' / 1"

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED -	B.BER	REVISED -	
DRAWN -	B.BER	REVISED -	
CHECKED -	B.BER	REVISED -	
DATE -	MAY 2014	REVISED -	

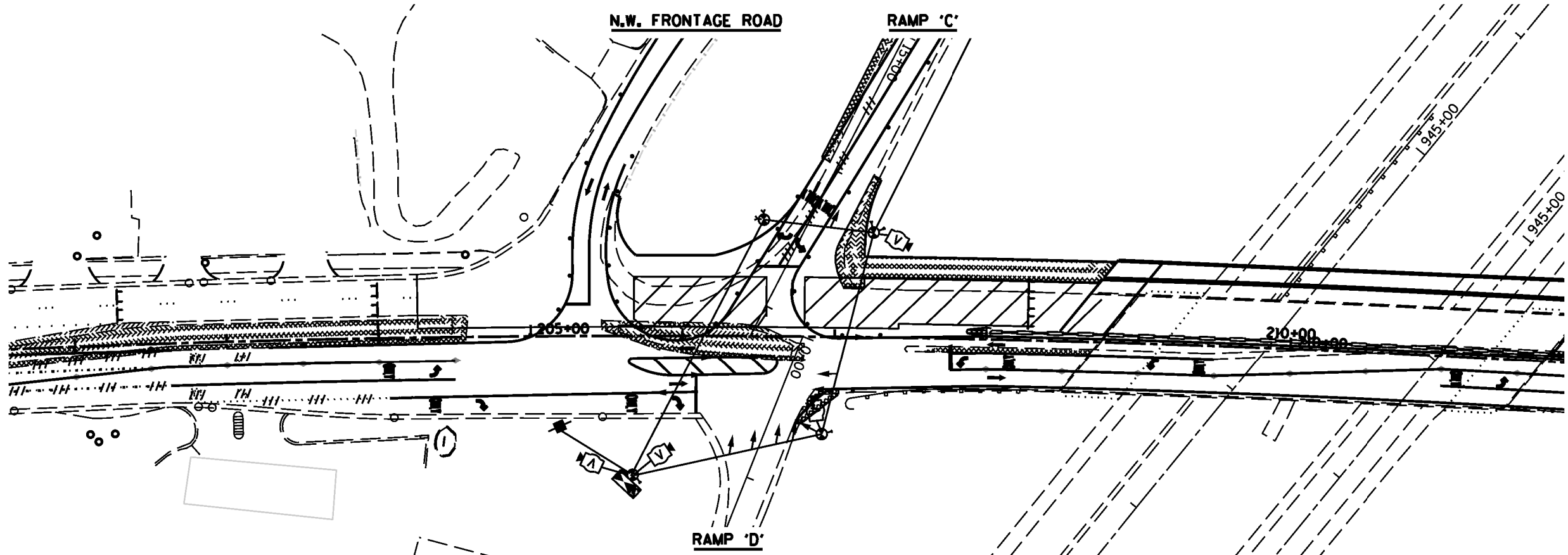
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SPAN WIRE TRAFFIC SIGNAL INSTALLATION
 STAGE I AND IA
 U.S. 6 AT RAMP C & D

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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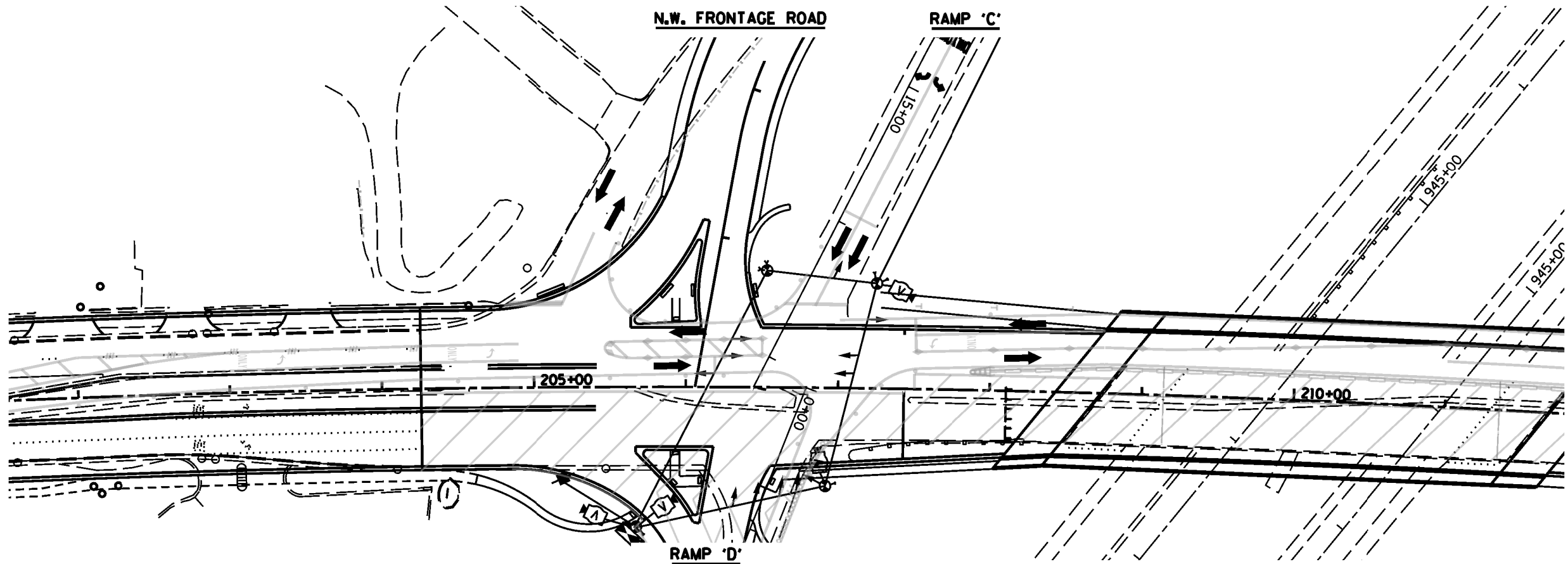
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MEX-BY&R	WILL	138A	271
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	



STAGE IB - U.S. 6 AT RAMP C/D

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	



STAGE II - U.S. 6 AT RAMP C/D

FILE NAME: 0160x84-STAGE.1B&2.RAMP.C.dgn
 PLOT DATE: 9/9/2014
 PLOT SCALE: 80,0000 1/4" = 1"

CR CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	- B.BER	REVISED	-
DRAWN	- B.BER	REVISED	-
CHECKED	- B.BER	REVISED	-
DATE	- MAY 2014	REVISED	-

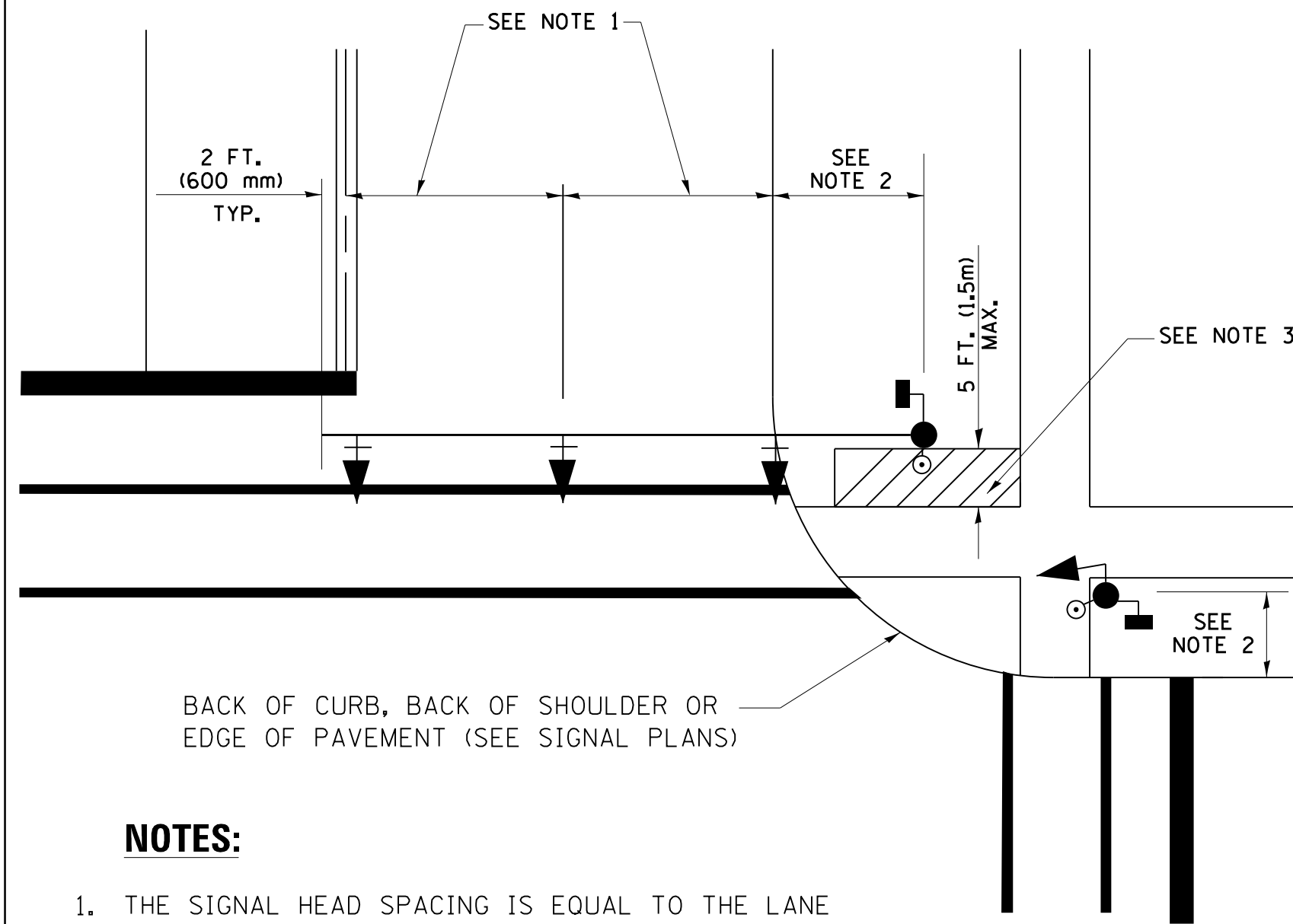
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SPAN WIRE TRAFFIC SIGNAL INSTALLATION
 STAGE IB AND II
 U.S. 6 AT RAMP C & D

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MHX-BY&R	WILL	1388	271
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

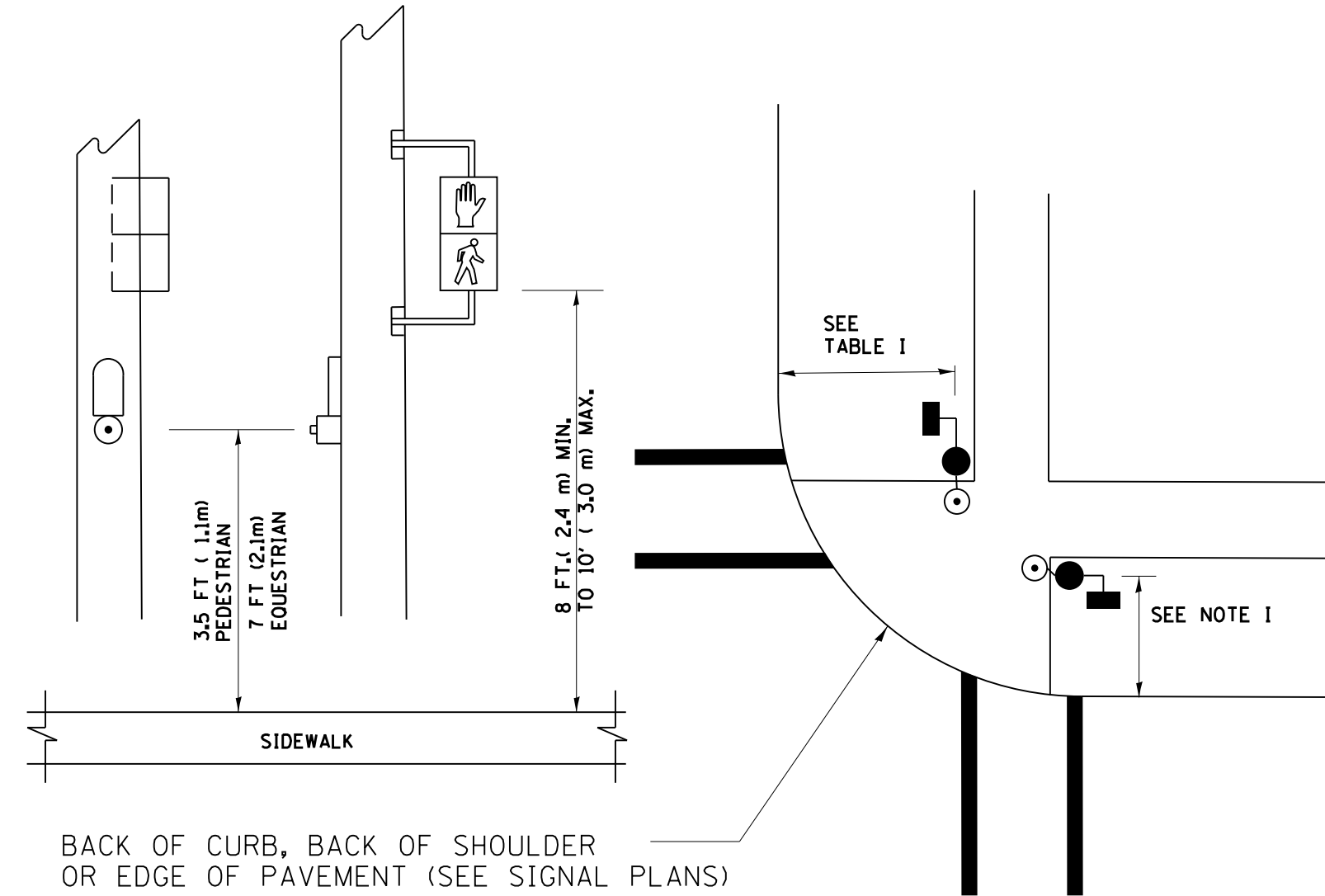
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

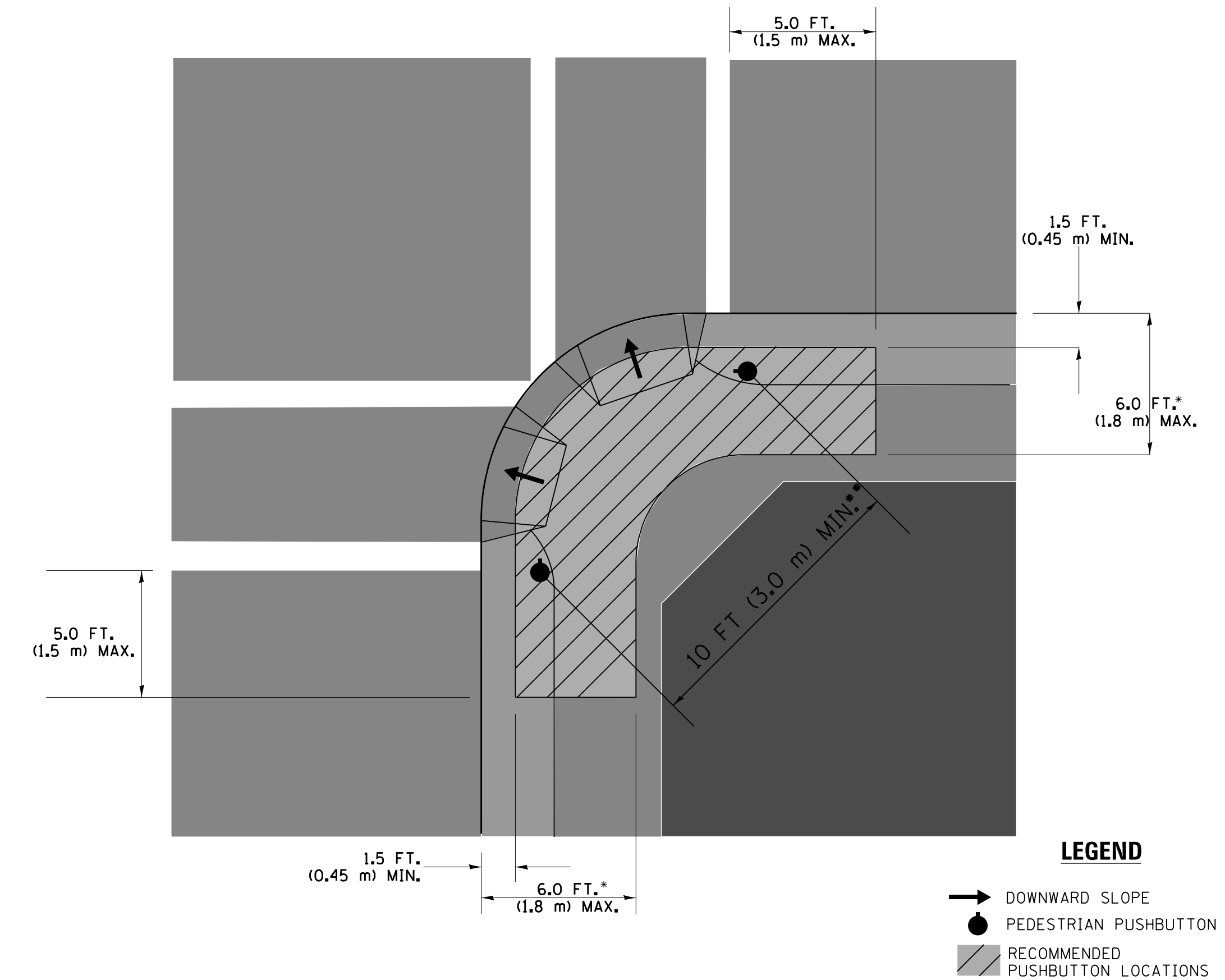
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

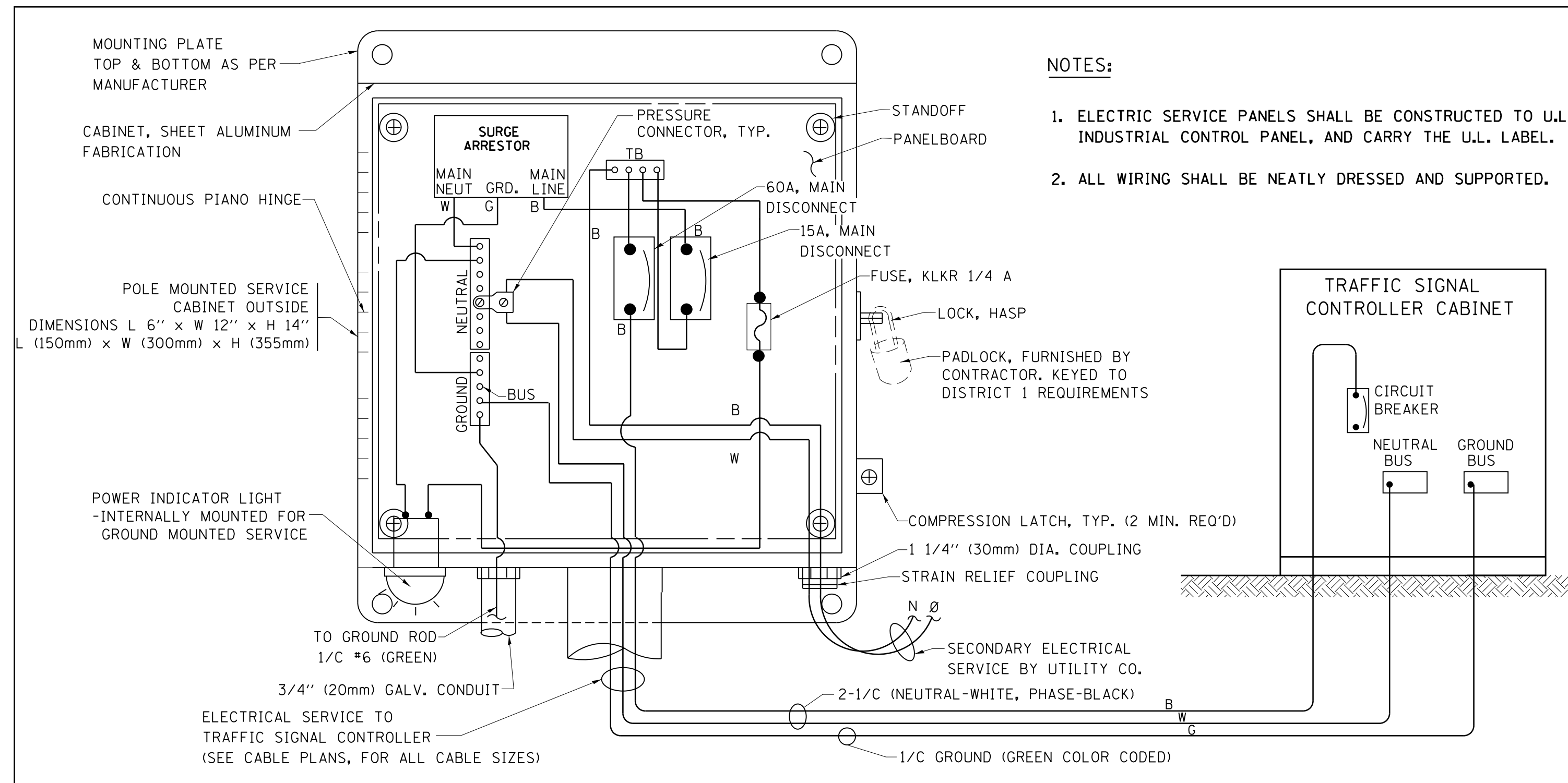
TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

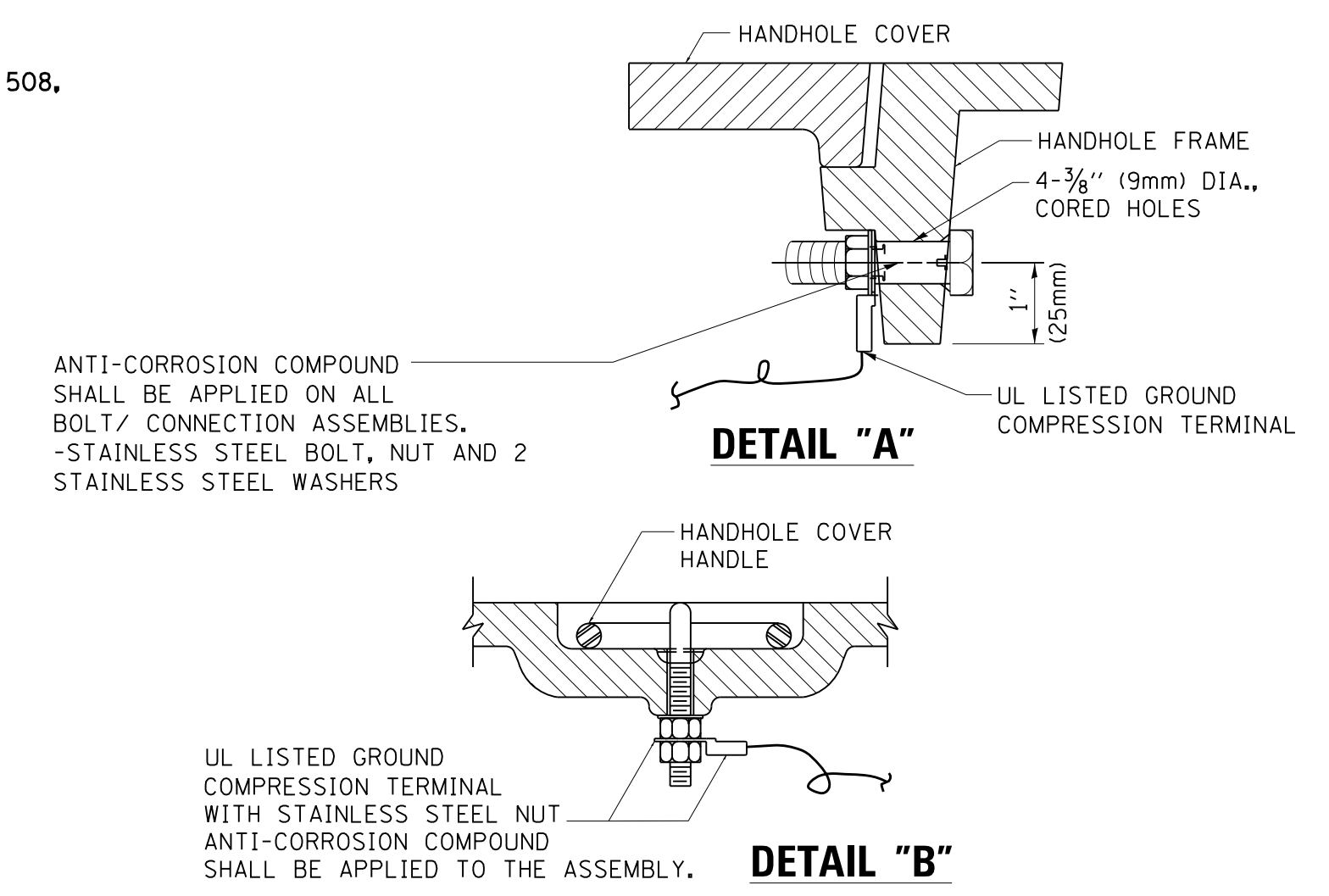
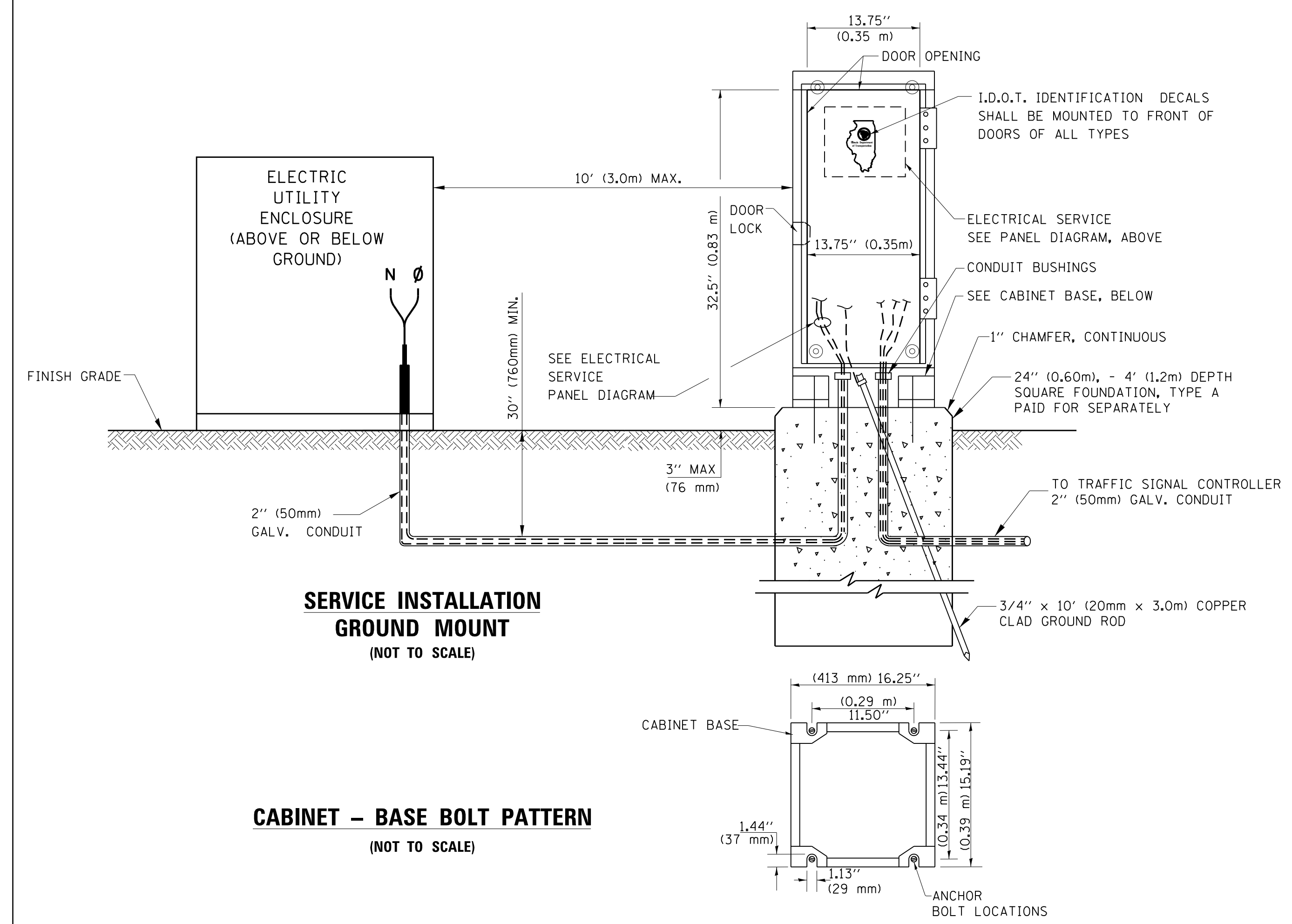
NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

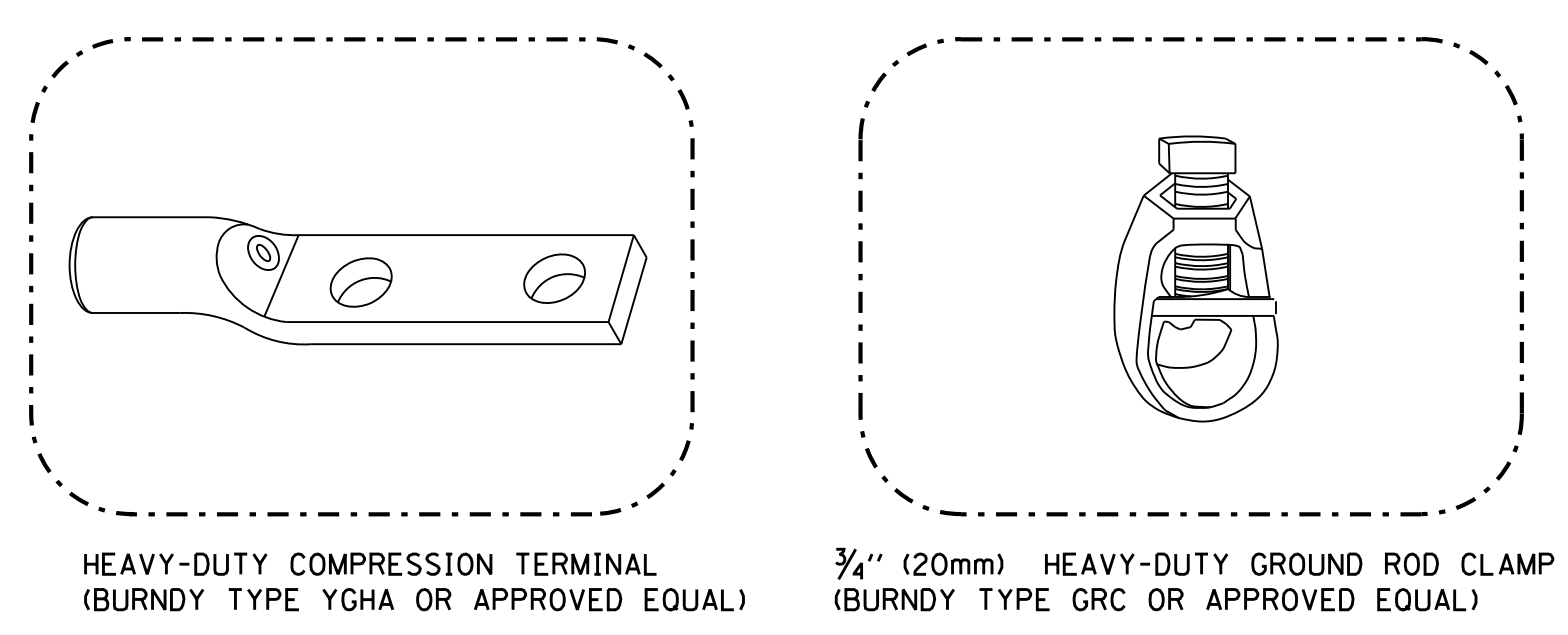
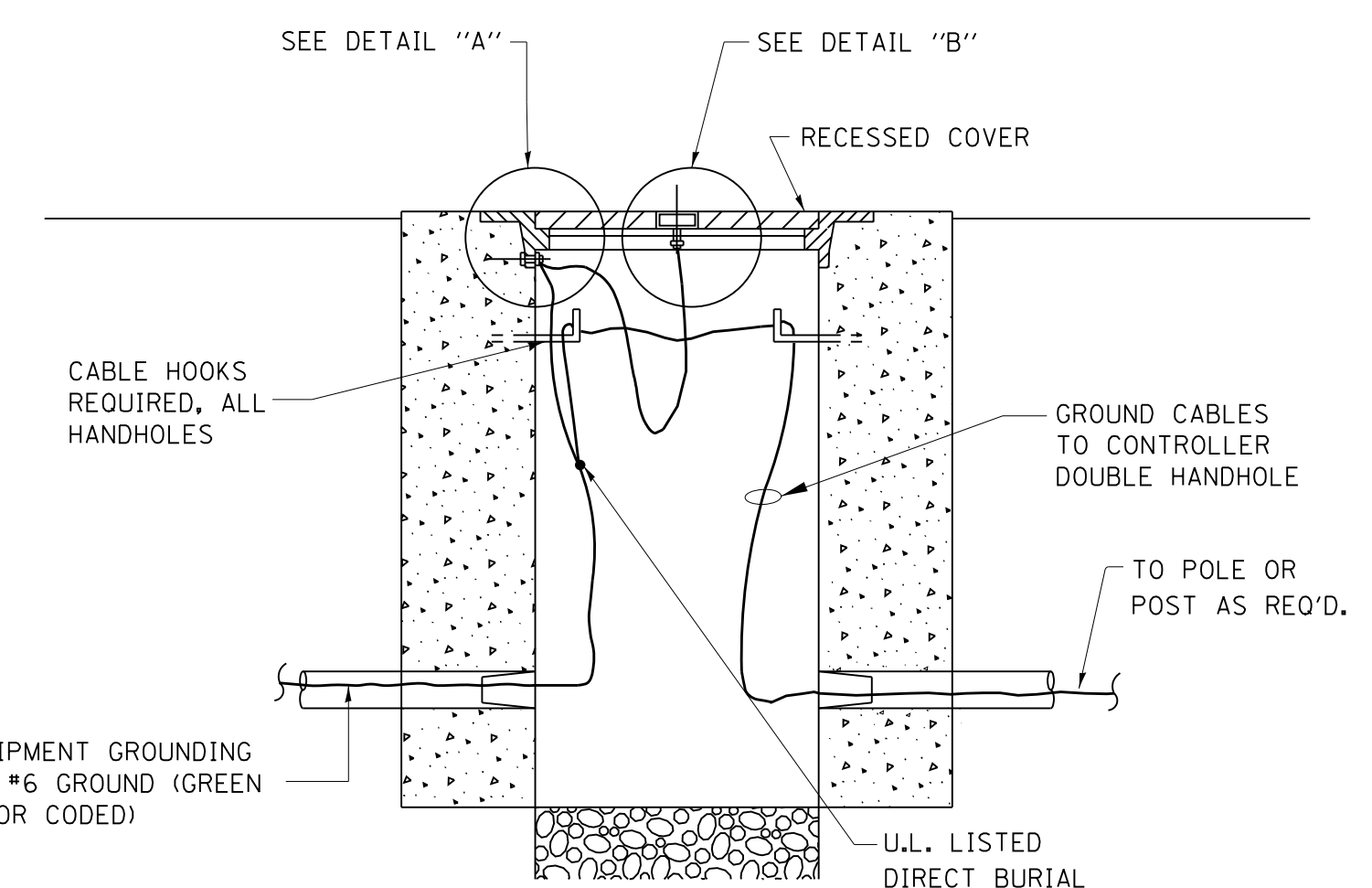
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PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -	SCALE: NONE			SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 60X84	
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



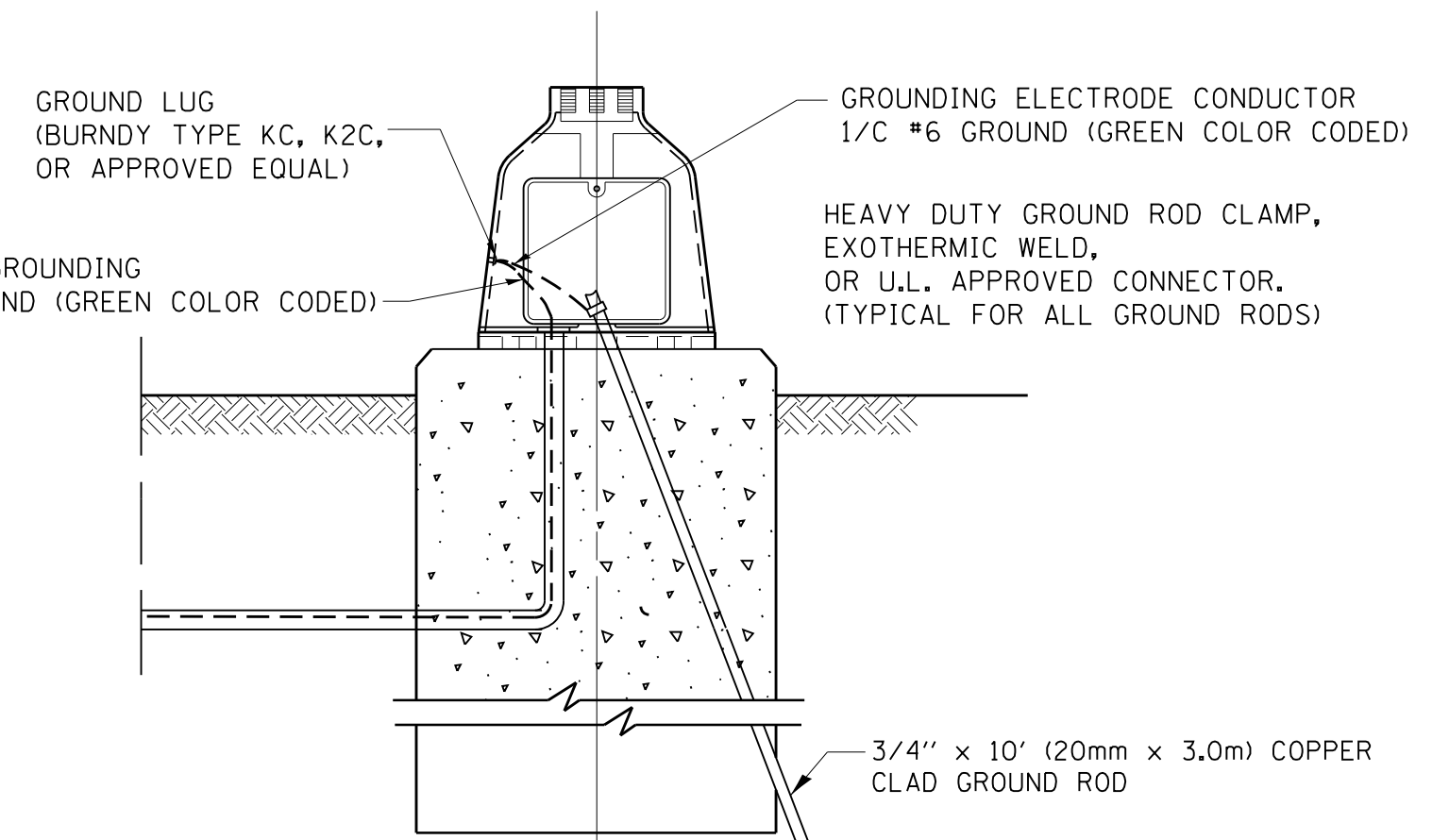
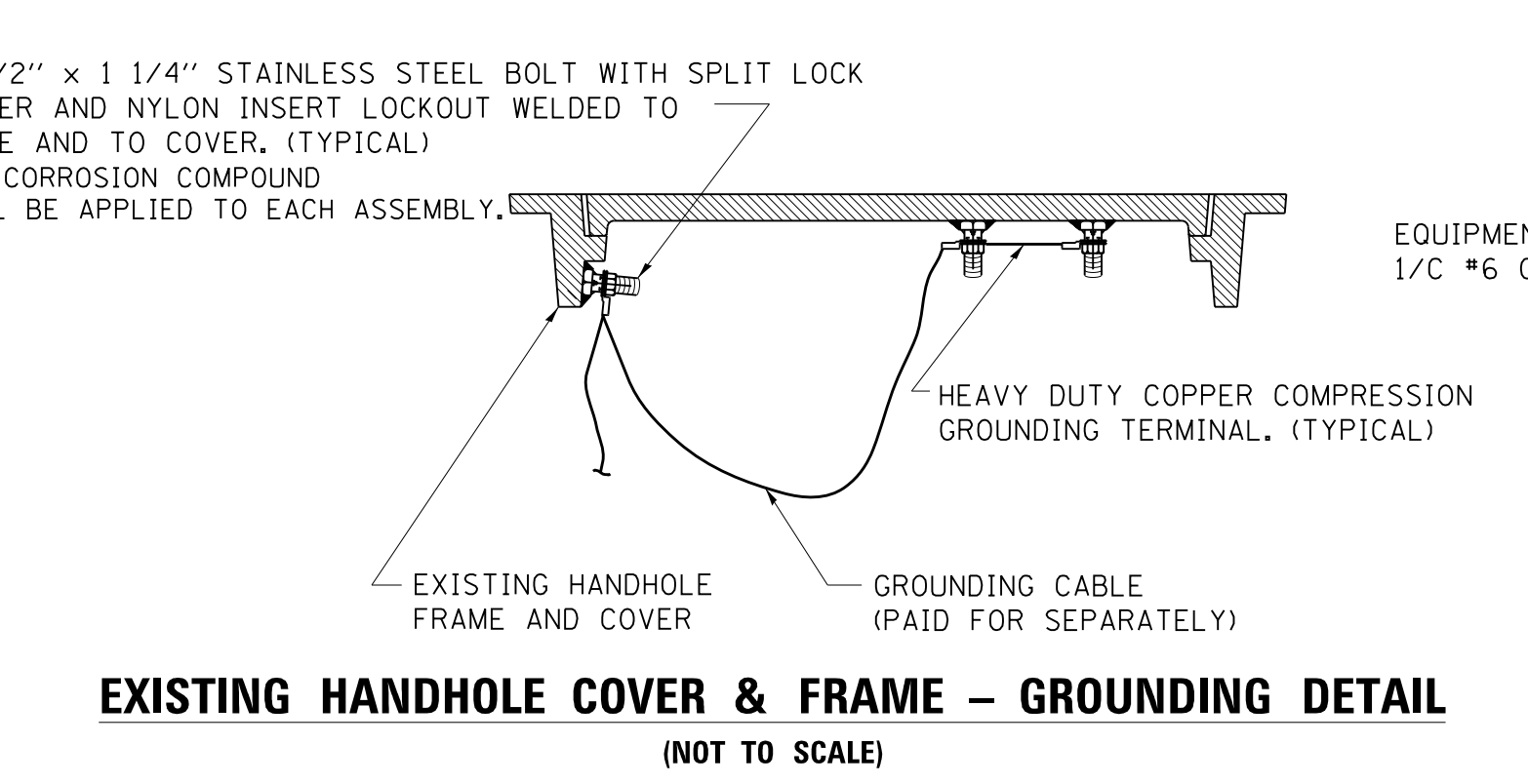
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 - THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



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

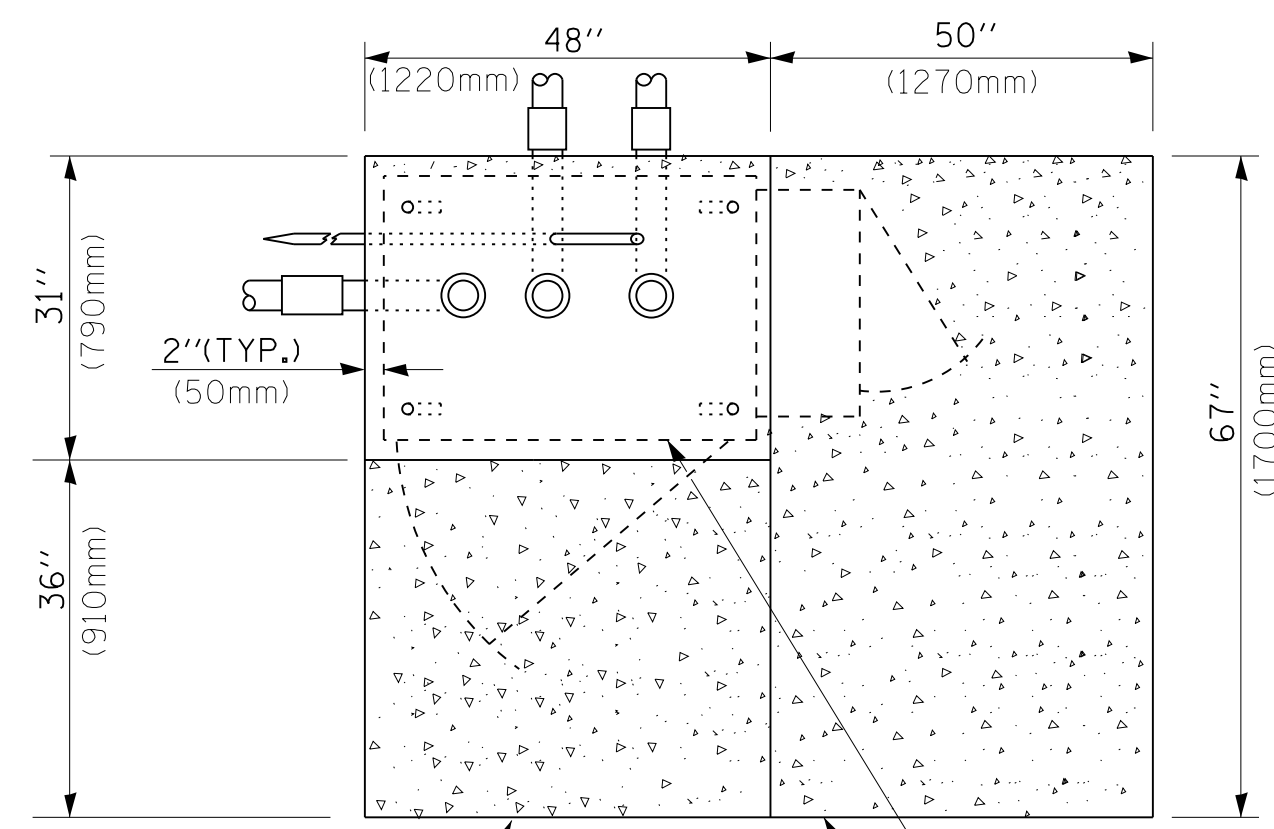


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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

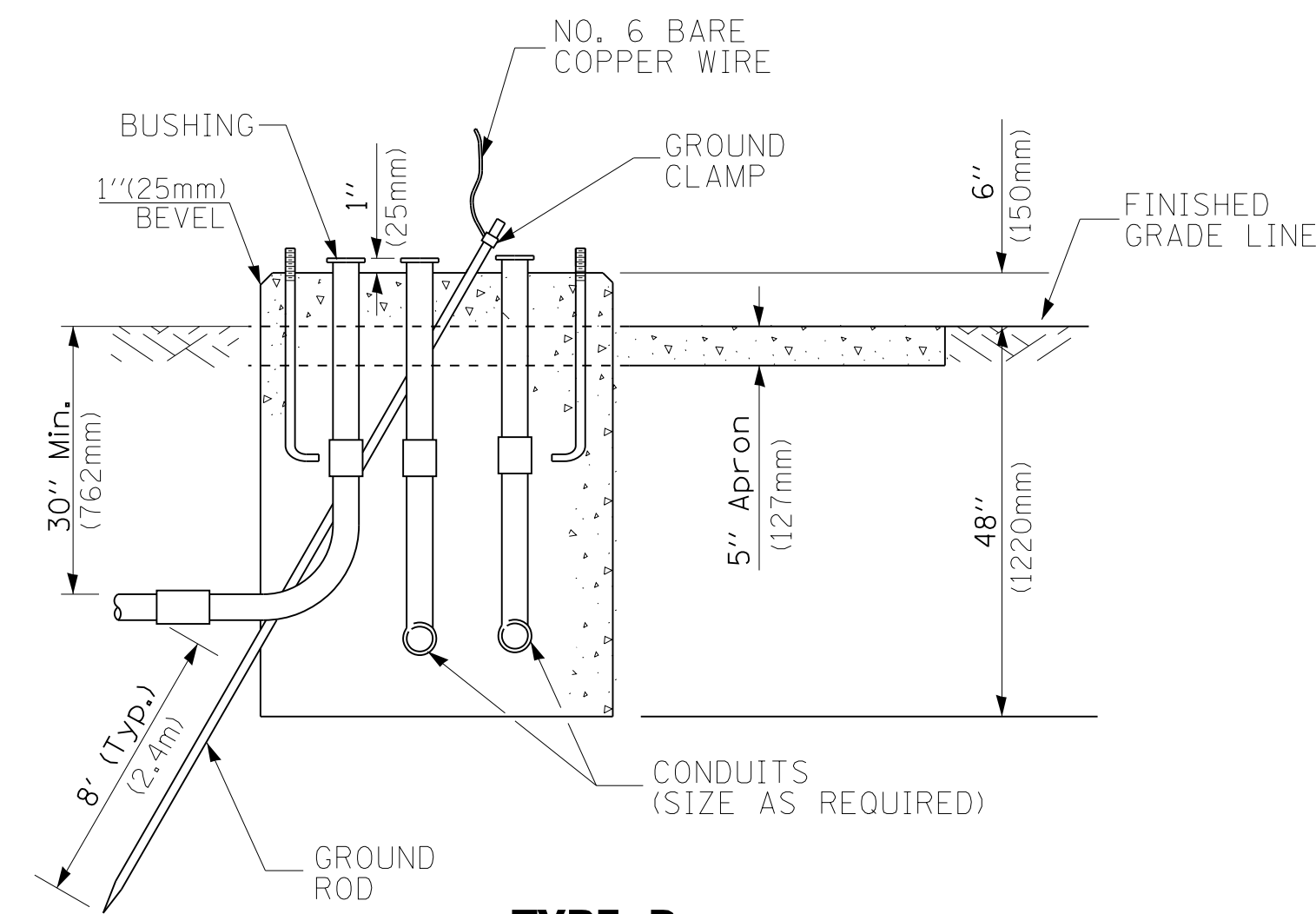
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

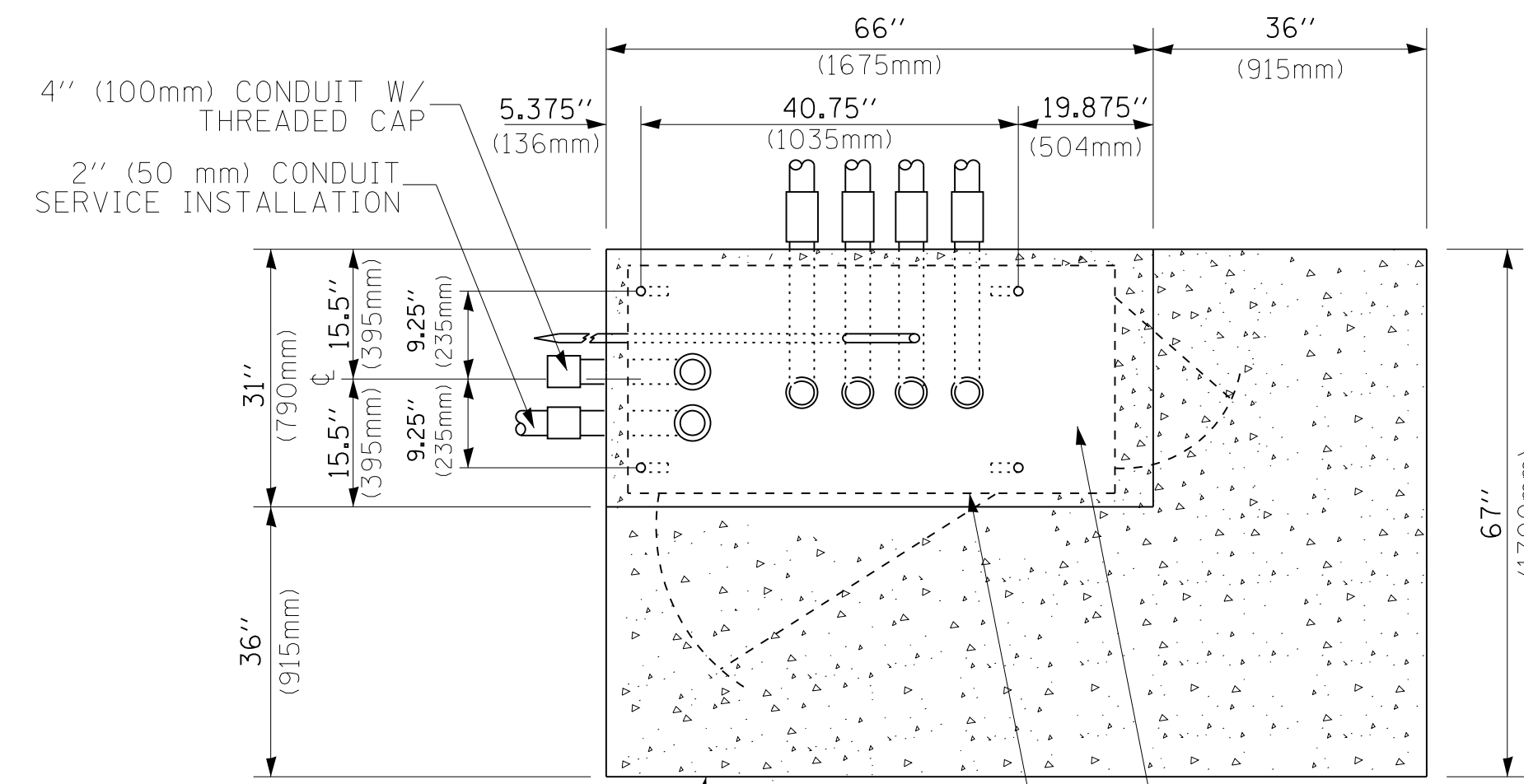
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-I-HBK-R	WILL	271	142
TS-05		CONTRACT NO. 60X84		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOP VIEW



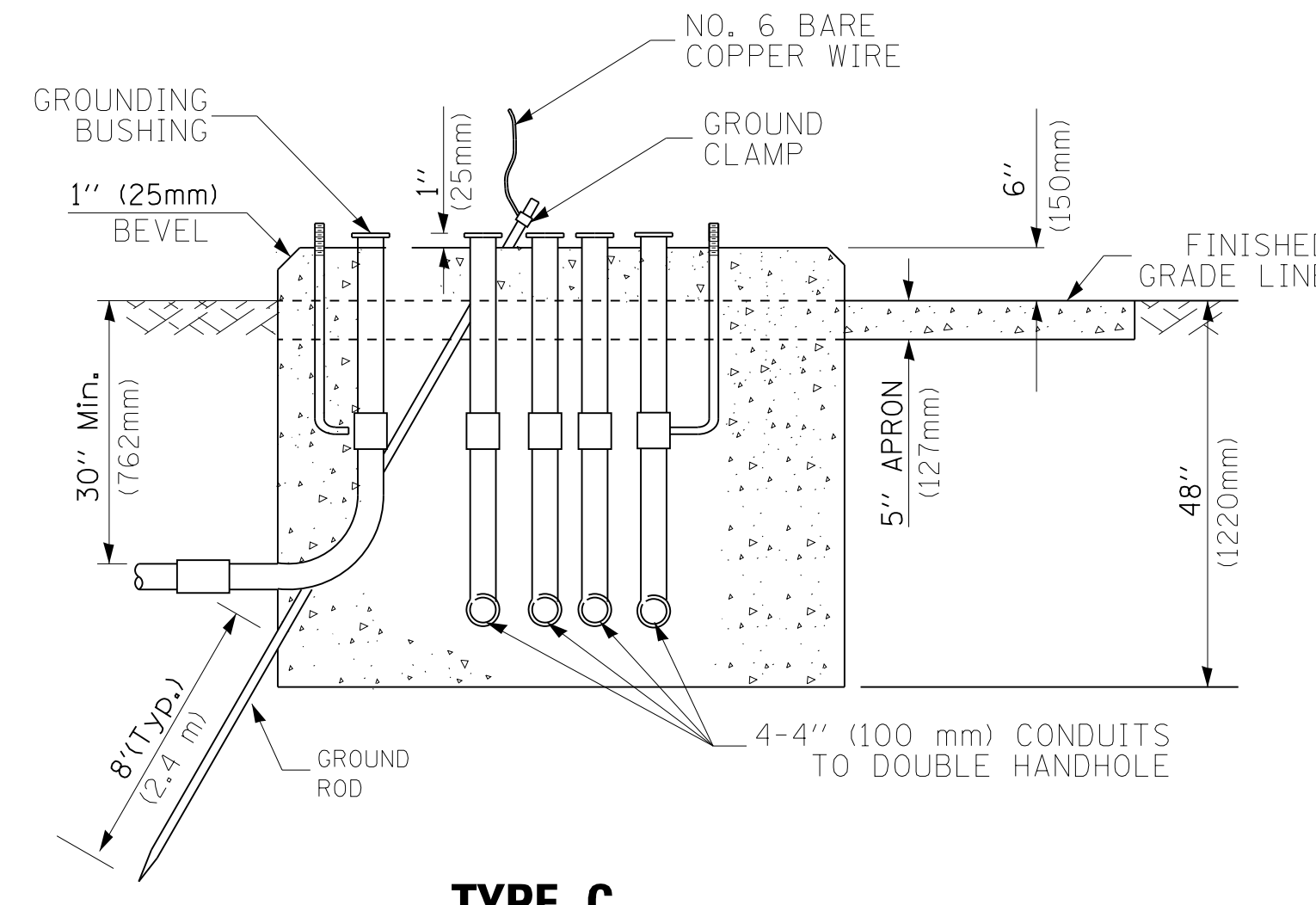
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



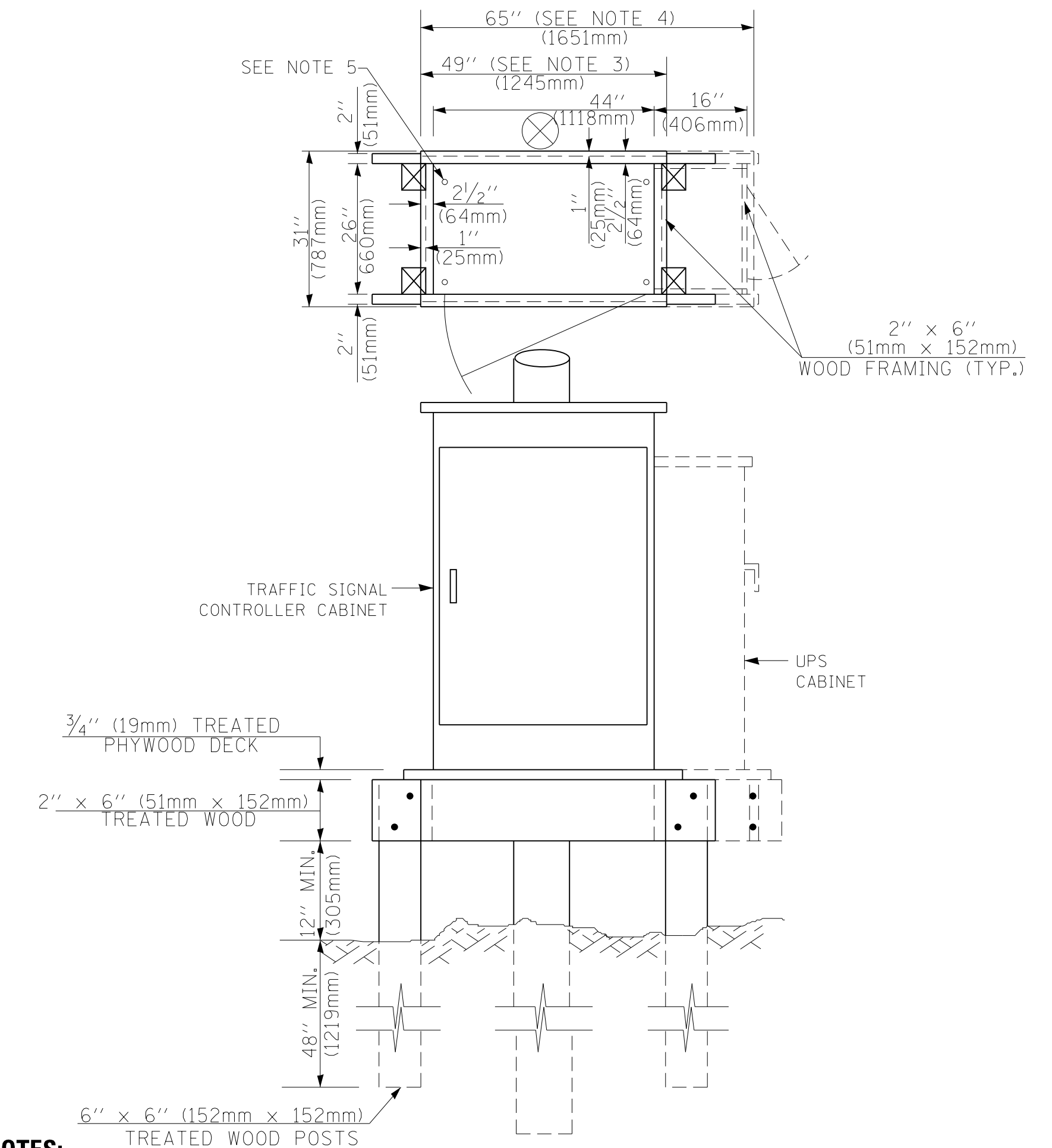
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

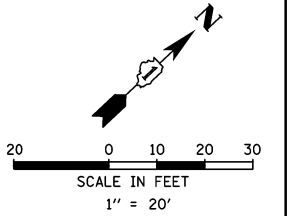
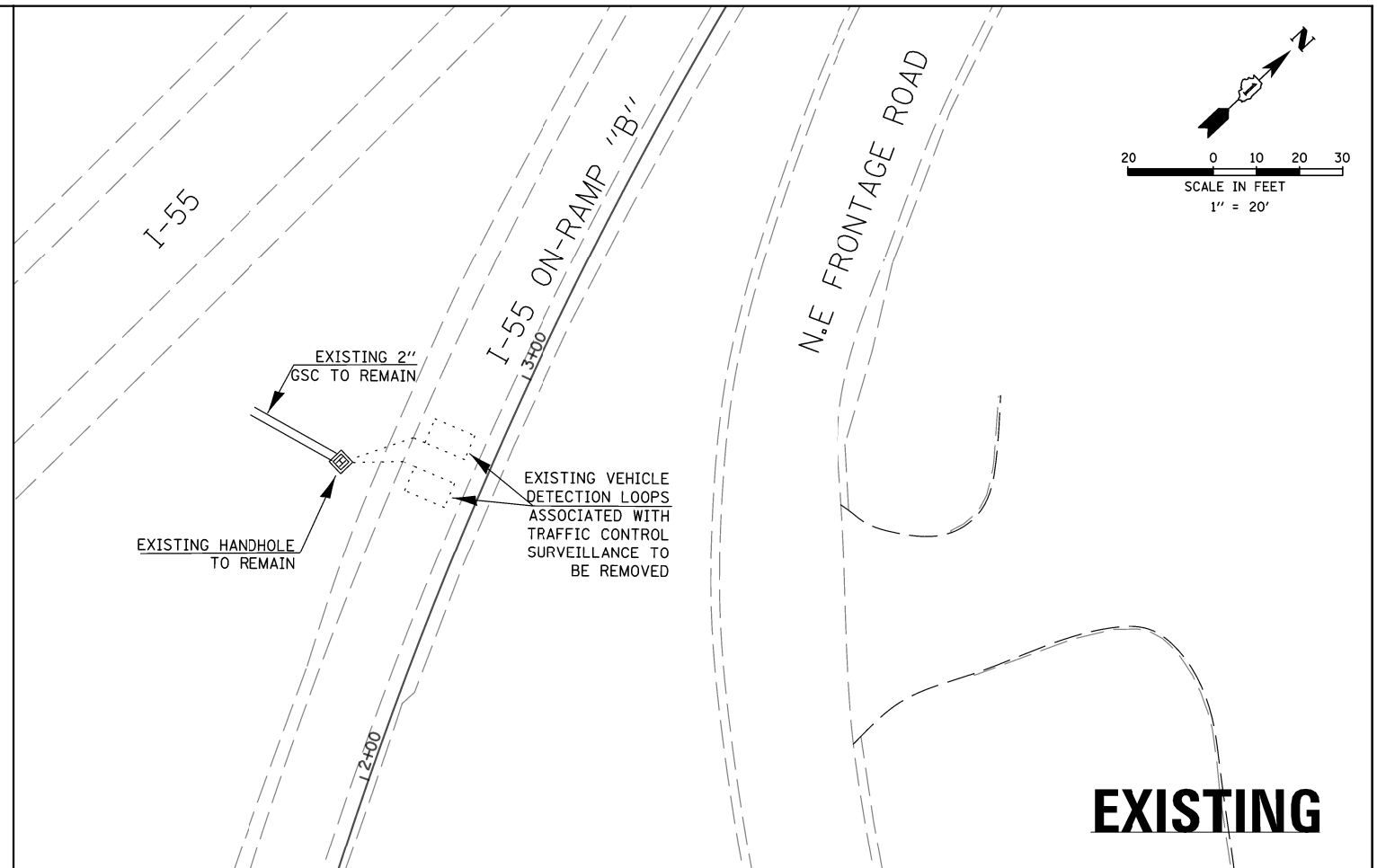
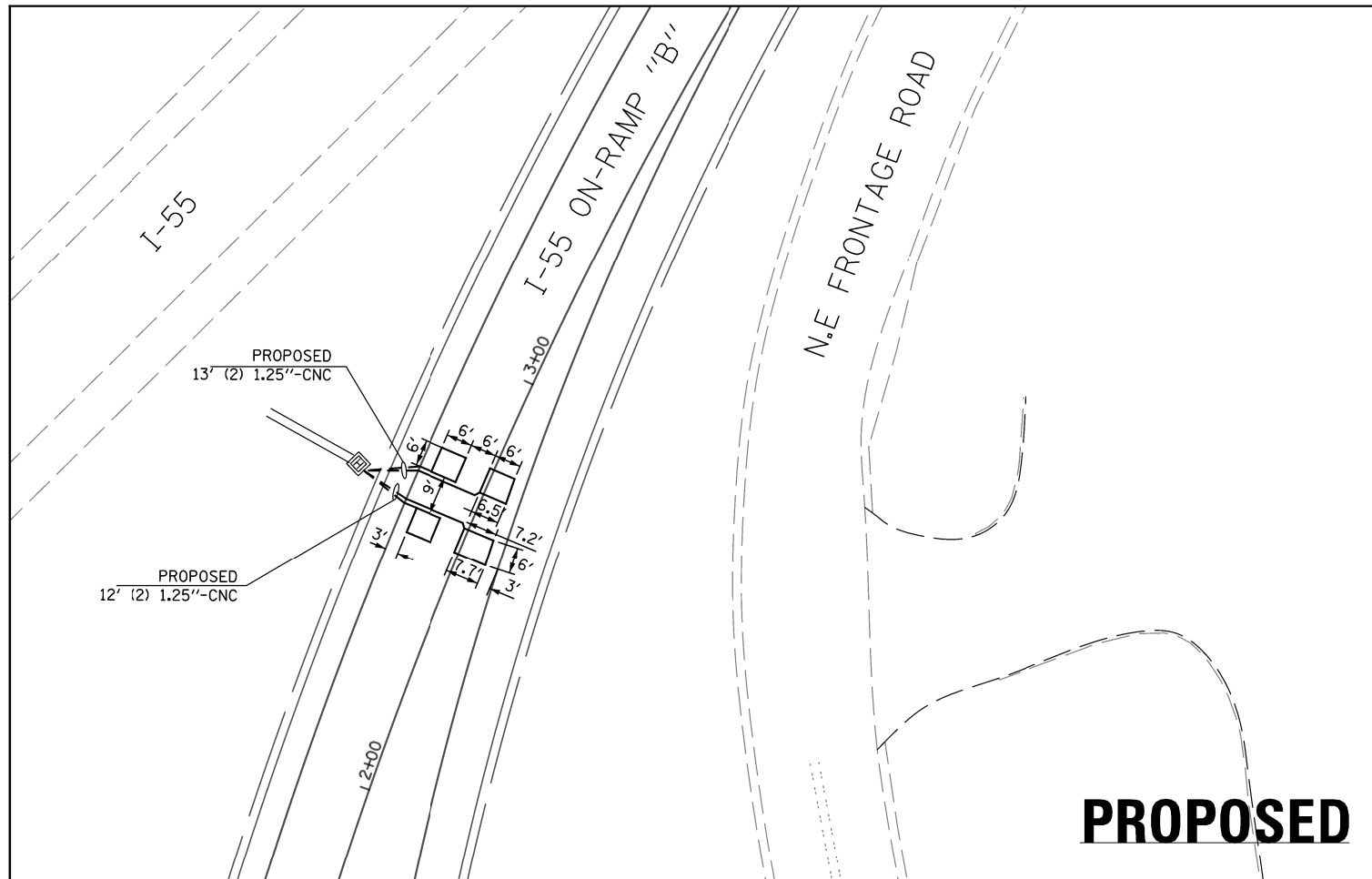
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
et:\pw_work\p\dot\footemj\d0188315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		55	86-I-HBK-R	WILL	271	143
SCALE: NONE		TS-05		CONTRACT NO. 60X84		
SHEET NO. 5 OF 7 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



PROPOSED

EXISTING

BILL OF MATERIALS - TRAFFIC CONTROL SURVEILLANCE INSTALLATION

CODE	ITEM	UNIT	QUANTITY
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	44
88500100	INDUCTIVE LOOP DETECTOR	EACH	2
X8850109	PREFORMED INDUCTION LOOP	FOOT	132
81603055	UNIT DUCT, 600V, 3-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	210
X8850102	INDUCTION LOOP	FOOT	136

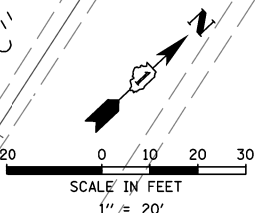
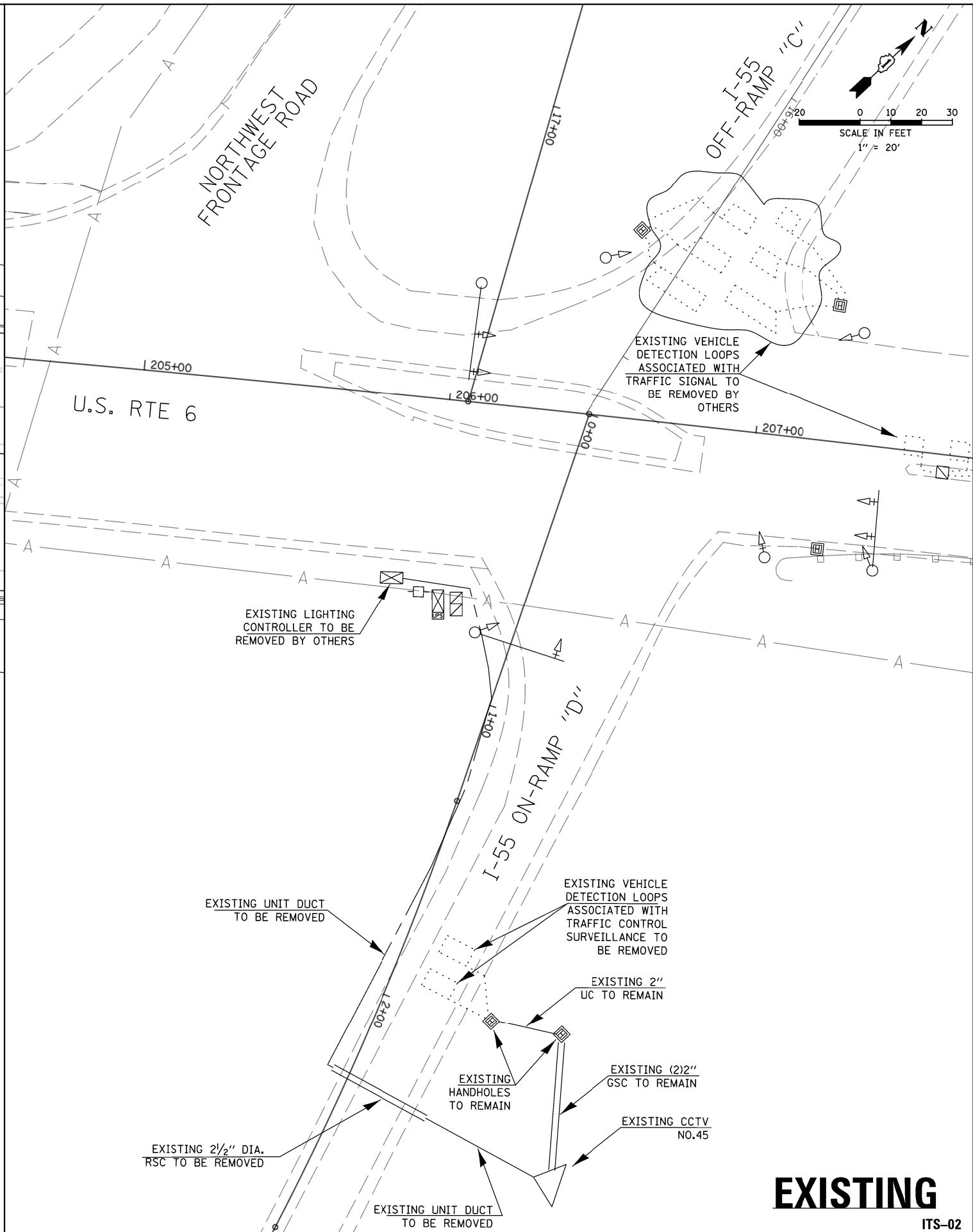
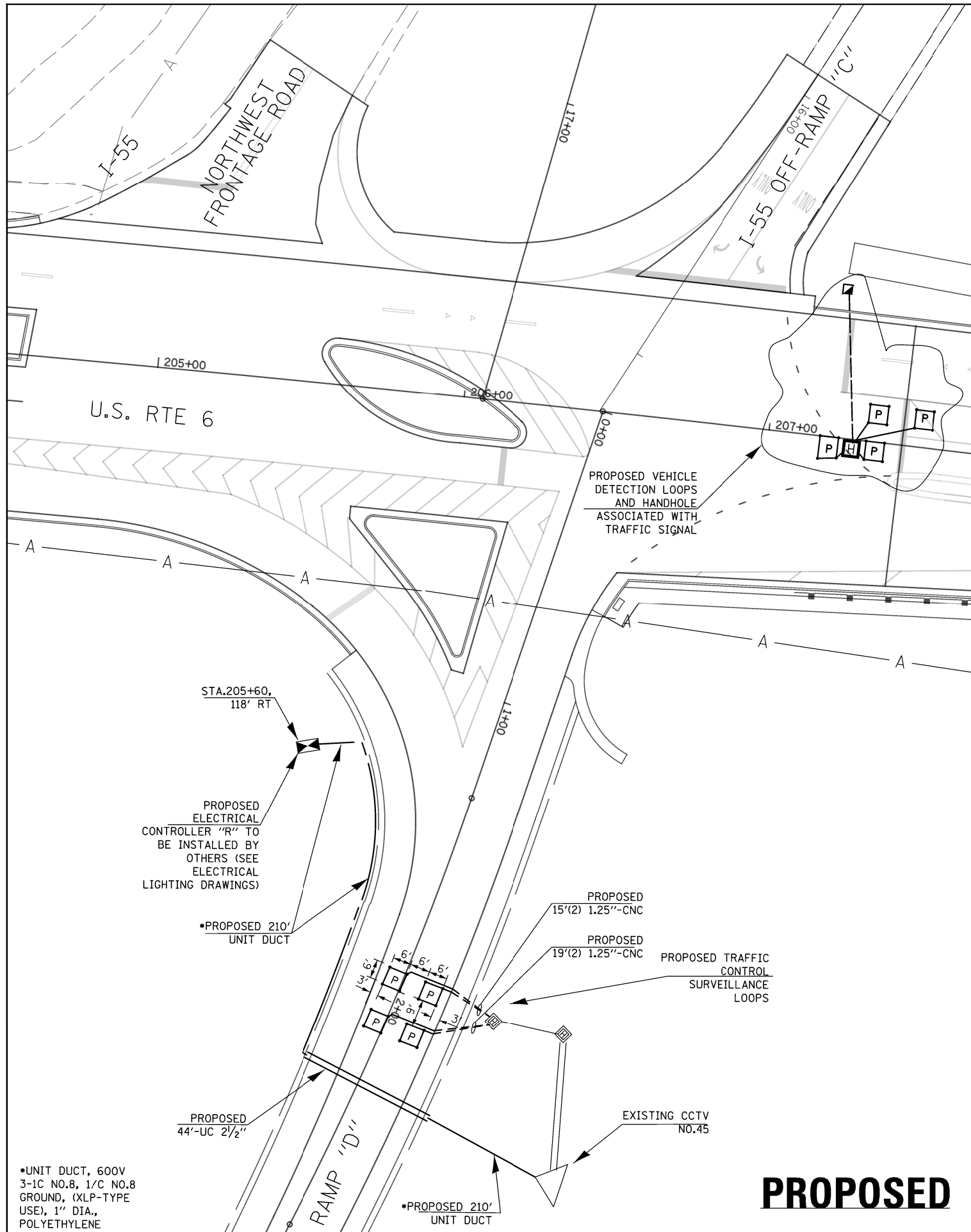
NOTES:

1. THESE PLANS ONLY SHOW REMOVAL AND INSTALLATION OF ITEMS RELATED TO TRAFFIC CONTROL SURVEILLANCE INSTALLATIONS AT RAMP "B" AND "D" THAT ARE BEING EFFECTED BY THE ROADWAY IMPROVEMENTS SHOWN IN THESE PLANS.
2. ATTACHED EXISTING PLANS ARE FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ALL INSTALLATION TO BE REMOVED AND INSTALL THE PROPOSED ITEMS AS SHOWN.
3. WORK RELATED WITH THE REMOVAL OF ALL ITEMS INDICATED ON THE PLANS IS INCIDENTAL TO THE RESPECTIVE ITEMS TO BE INSTALLED.
4. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AND INSTALLED IN KIND WITH ANY ADDITIONAL COMPENSATION.
5. REMOVED ITEMS SHALL BE DISPOSED OFF BY THE CONTRACTOR OUTSIDE THE RIGHT OF WAY AT HIS/HER EXPENSE AND SHALL BE REFLECTED IN THE CONTRACT BID PRICE OF RESPECTIVE ITEMS.
6. RESTORATION OF THE EFFECTED WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

ITS-01

FILE NAME = ITS-01 REMOVAL & REPLACEMENT PLAN - RAMP B.dgn
 PLOT DATE = 10/30/2014
 PLOT SCALE = 40.00000' / 1"

CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	SPAAN Tech, Inc. 311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8800 web: www.SpaanTech.com	DESIGNED - WJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL SURVEILLANCE INSTALLATION REMOVAL & REPLACEMENT RAMP B	F.A.I. RTE. 55	SECTION 86-I-HBK-R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 145
		DRAWN - CADD	REVISED -			CONTRACT NO. 60I30				
CHECKED - STI	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								
DATE - MAY 2014	REVISED -	SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.								



•UNIT DUCT, 600V
3-1C NO.8, 1/C NO.8
GROUND, (XLP-TYPE
USE), 1" DIA.,
POLYETHYLENE



DESIGNED - WJD	REVISED -
DRAWN - CADD	REVISED -
CHECKED - STI	REVISED -
DATE - MAY 2014	REVISED -

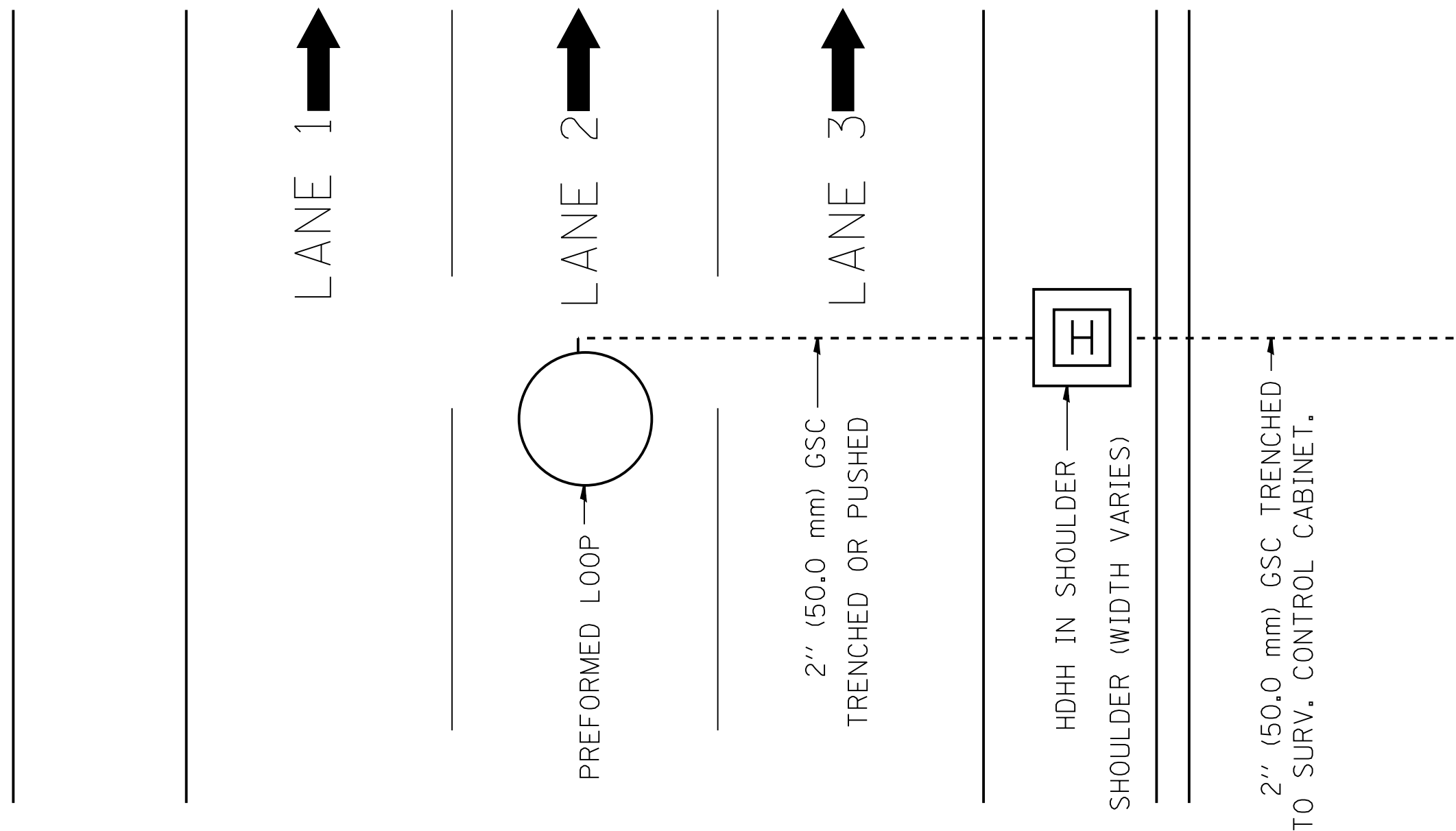
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL SURVEILLANCE INSTALLATION
REMOVAL & REPLACEMENT AT RAMP D**

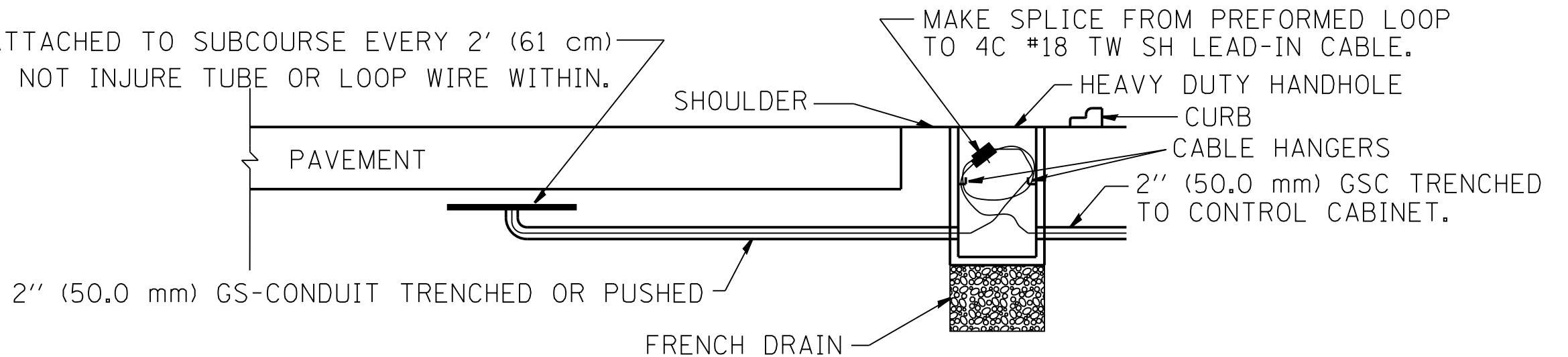
SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-I-HBK-R	WILL	271	146
CONTRACT NO. 60130				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

FILE NAME = ITS-02 REMOVAL & REPLACEMENT PLAN - Ramp D.dgn
PLOT DATE = 10/30/2014
PLOT SCALE = 40.0000' / 1"



PREFORMED LOOP ATTACHED TO SUBCOURSE EVERY 2' (61 cm)
ATTACHMENT SHALL NOT INJURE TUBE OR LOOP WIRE WITHIN.



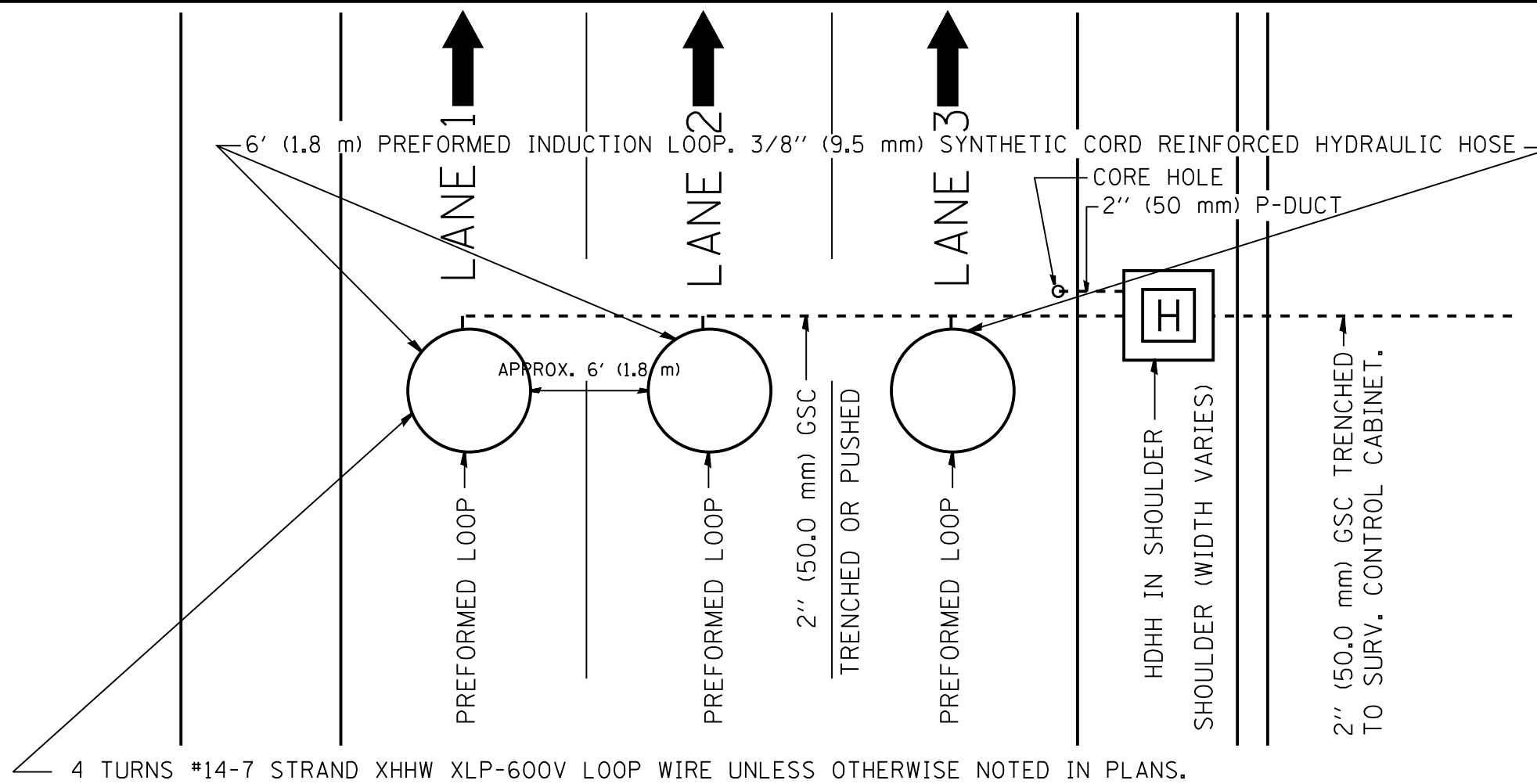
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED -
ci\pwwork\pwwork\mezag\d0207541\TSCYP.dgn		DRAWN - G.M.	REVISED -
Default	PLOT SCALE = 100.0000' / 1"	CHECKED - R.L.	REVISED -
	PLOT DATE = 8/21/2014	DATE - 03/18/02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

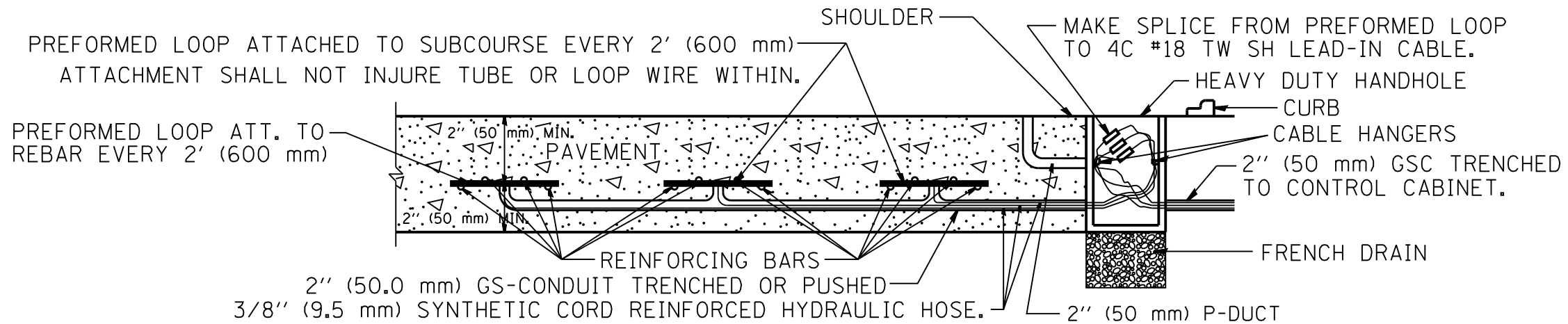
PREFORMED LOOP TYPICAL INSTALLATION NON-BRIDGE DECK APPLICATION			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	149A
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#10)



TYPICAL 3 LANE COUNT STATION IN NEW CONCRETE PAVEMENT

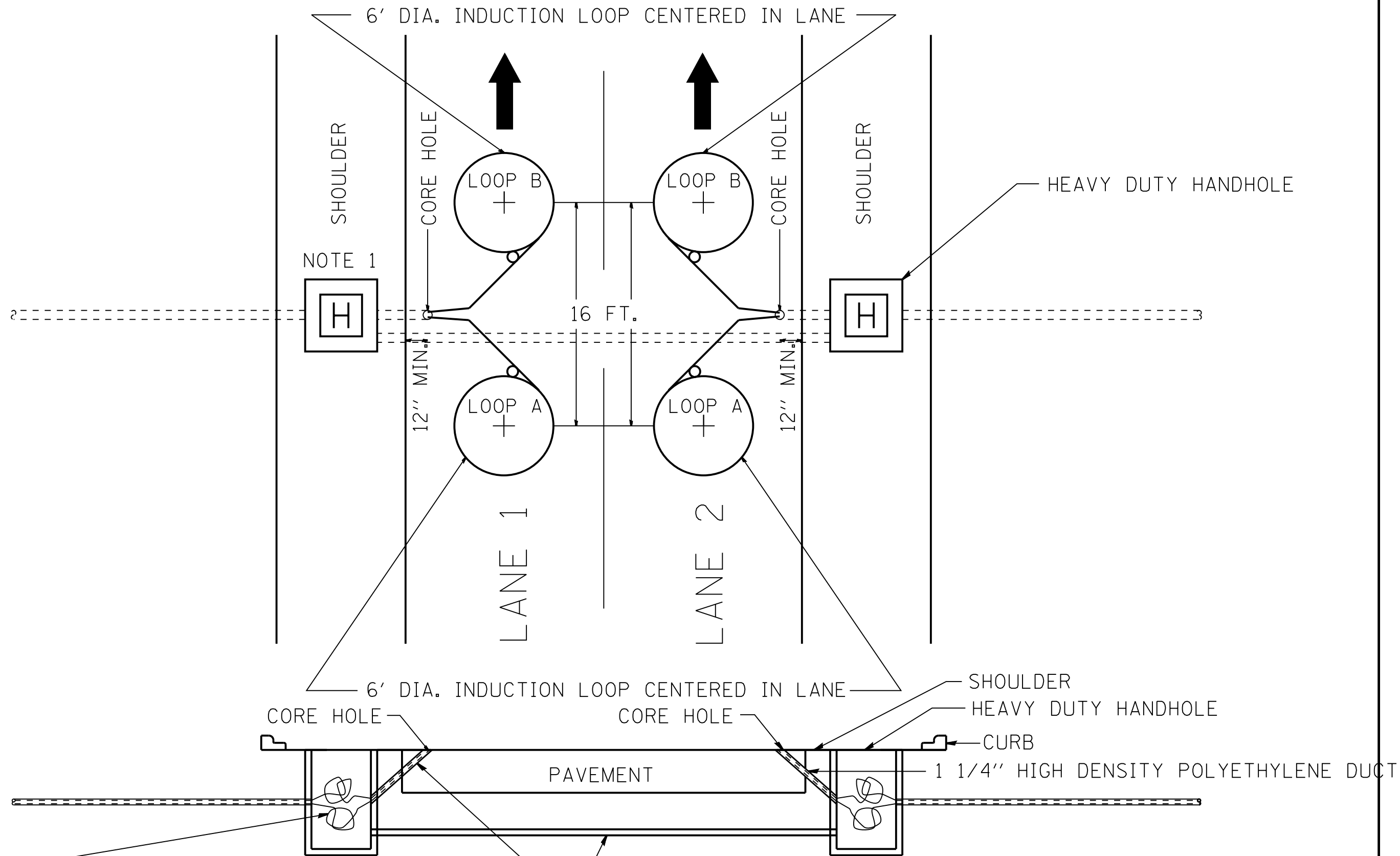


LOOP INSTALLATION IN NEW CONCRETE PAVEMENT

NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANES 1 AND 3 WRAP LOOPS CLOCKWISE, FOR LANE 2 WRAP LOOP COUNTER CLOCKWISE.
- 5.- FOR COUNT STATIONS WHICH HAVE MORE THAN 3 LANES, A 3" (75 mm) GSC SHALL BE USED.
- 6.- COREHOLE SHALL BE FILLED WITH DUCT SEAL. JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP TYPICAL INSTALLATION NEW CONCRETE PAVEMENT		F.A. RTE. 55	SECTION 86-1-HBK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 149B	
Default	PLOT SCALE = 100.0000' / 1"	DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET OF	SHEETS STA. TO STA.	CONTRACT NO. 60X84				
	PLOT DATE = 8/21/2014	CHECKED - J.G.	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		DATE - 06/22/04	REVISED -					TRAFFIC SYSTEMS CENTER (TY-1TSC-418#19)				



LOOP WIRE IF > 150FT. TO CABINET SPLICE
 4C #18 TWISTED SHIELDED TO LOOP WIRE.

2" GALVANIZED STEEL CONDUIT PUSHED OR DIRECTIONAL BORED
 1 1/4" HIGH DENSITY POLYETHYLENE DUCT

NOTE 1: IF HDHH NOT POSSIBLE THEN LANE 1 LOOPS USE SAME CORE HOLE AS LANE 2 LOOPS. IN THE OTHER DIRECTION,
 LANE 2 LOOPS WILL USE SAME CORE HOLE AS LANE 1 LOOPS.

FILE NAME =	USER NAME = mezeg	DESIGNED - J.G.	REVISED - 07/27/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TRAFFIC SURVEILLANCE 2 LANE SPEED, COUNT, CLASSIFICATION STATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	Default	DRAWN - G.M.	REVISED - 03/17/2014		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	55	86-1-HBK-BY&R	WILL	271	149C
		CHECKED - J.G.	REVISED -												
		DATE - 06/25/2010	REVISED -												

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#21)

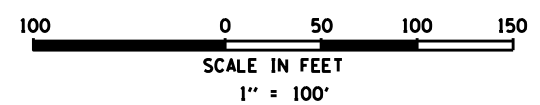
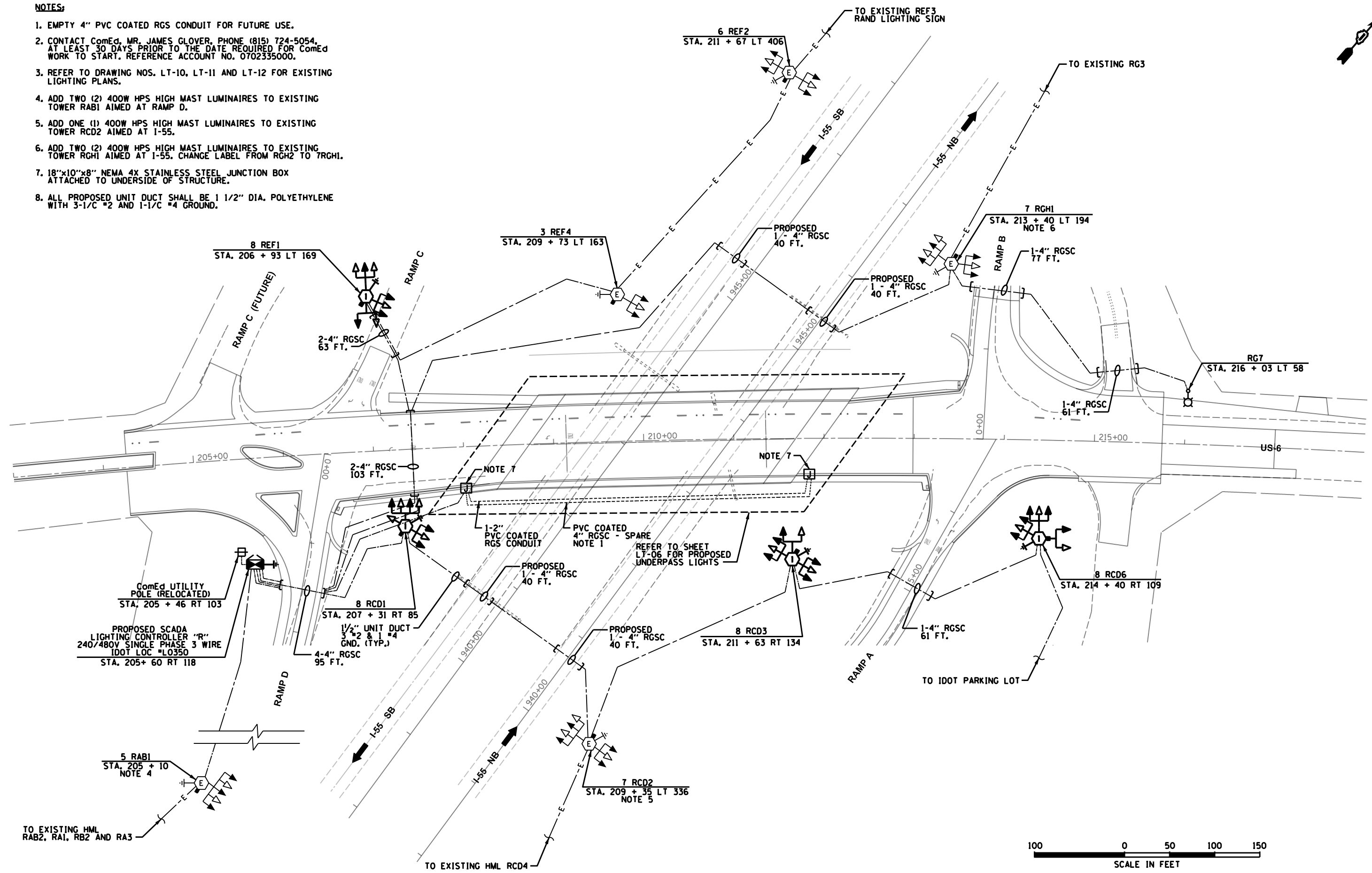
NOTES:

- EMPTY 4" PVC COATED RGS CONDUIT FOR FUTURE USE.
- CONTACT ComEd, MR. JAMES GLOVER, PHONE (815) 724-5054, AT LEAST 30 DAYS PRIOR TO THE DATE REQUIRED FOR ComEd WORK TO START. REFERENCE ACCOUNT NO. 0702335000.
- REFER TO DRAWING NOS. LT-10, LT-11 AND LT-12 FOR EXISTING LIGHTING PLANS.
- ADD TWO (2) 400W HPS HIGH MAST LUMINAIRES TO EXISTING TOWER RAB1 AIMED AT RAMP D.
- ADD ONE (1) 400W HPS HIGH MAST LUMINAIRE TO EXISTING TOWER RCD2 AIMED AT I-55.
- ADD TWO (2) 400W HPS HIGH MAST LUMINAIRES TO EXISTING TOWER RGH1 AIMED AT I-55. CHANGE LABEL FROM RGH2 TO TRGH1.
- 18"x10"x8" NEMA 4X STAINLESS STEEL JUNCTION BOX ATTACHED TO UNDERSIDE OF STRUCTURE.
- ALL PROPOSED UNIT DUCT SHALL BE 1 1/2" DIA. POLYETHYLENE WITH 3-1/2" #2 AND 1-1/2" #4 GROUND.

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TEMPLATE	
AREAS CHECKED	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
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PLOT SCALE = 1/8"=1'-0"
 PLOT DATE = 10/31/2014
 FILE NAME = LT-03 Proposed Lighting Plan.dwg



	CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274		SPAAN Tech, Inc. 311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8809 IDPR LICENSE NO. 184.002673 web: www.SpaanTech.com
	DESIGNED - L.F.		REVISED -
	DRAWN - R.C.		REVISED -
	CHECKED - I.B.		REVISED -
DATE - September, 2014		REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE US 6 AND I-55
 PROPOSED LIGHTING PLAN**

SCALE: 1"=100' SHEET NO. 3 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

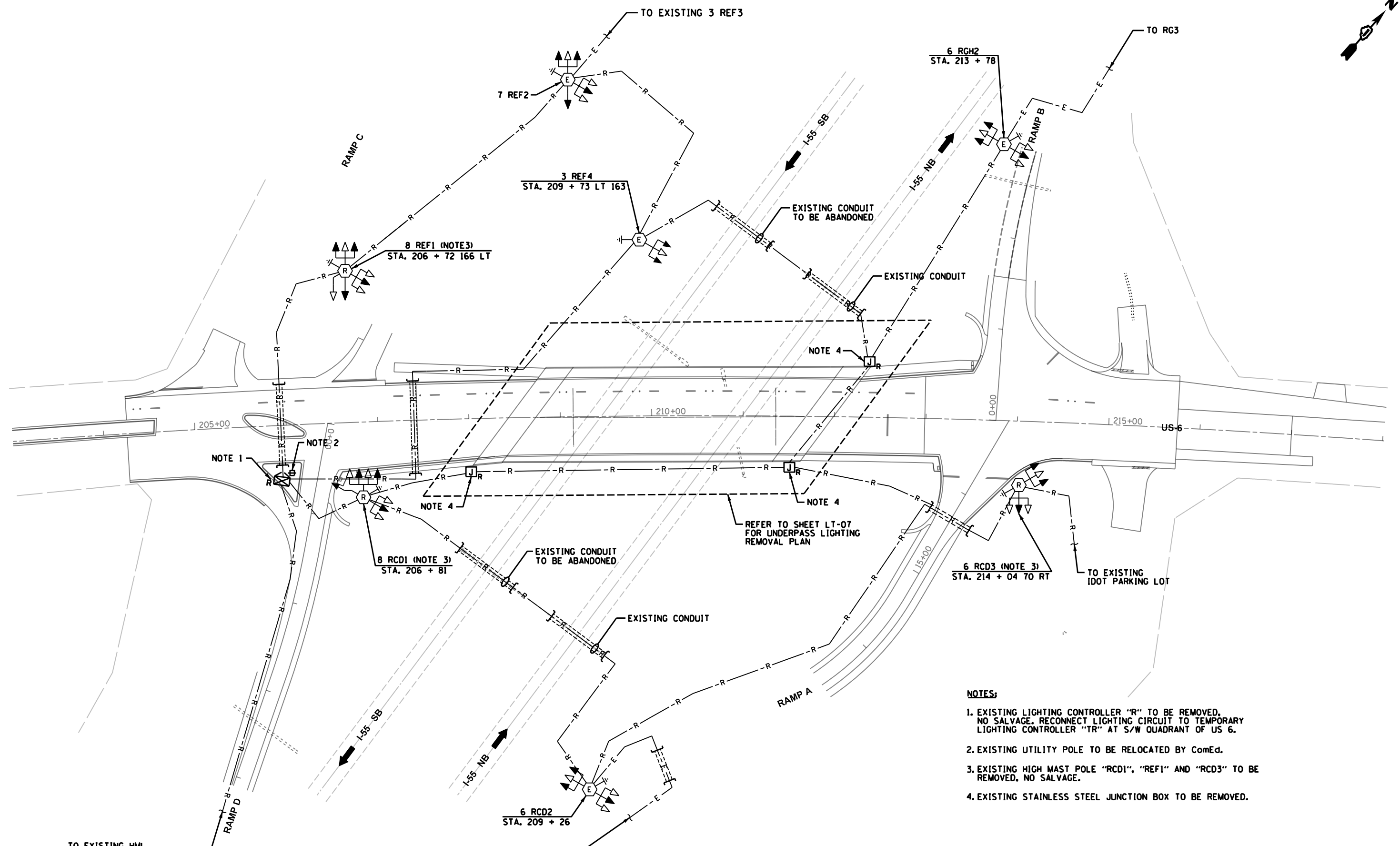
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBX-BY&R	WILL	271	152
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-03

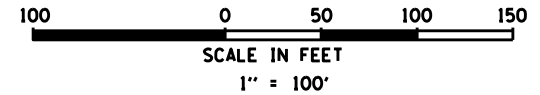
DATE	
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ORIGINAL SURVEY	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

PLOT SCALE = 1/8" = 100'
 PLOT DATE = 11/14/2014
 FILE NAME = LT-04 Lighting Removal Plan.dgn



- NOTES:**
- EXISTING LIGHTING CONTROLLER "R" TO BE REMOVED, NO SALVAGE. RECONNECT LIGHTING CIRCUIT TO TEMPORARY LIGHTING CONTROLLER "TR" AT S/W QUADRANT OF US 6.
 - EXISTING UTILITY POLE TO BE RELOCATED BY ComEd.
 - EXISTING HIGH MAST POLE "RCD1", "REF1" AND "RCD3" TO BE REMOVED, NO SALVAGE.
 - EXISTING STAINLESS STEEL JUNCTION BOX TO BE REMOVED.



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DESIGNED	L.F.	REVISED	
DRAWN	R.C.	REVISED	
CHECKED	I.B.	REVISED	
DATE	September, 2014	REVISED	

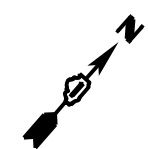
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE US 6 AND I-55
 LIGHTING REMOVAL PLAN**

SCALE: 1"=100' SHEET NO. 4 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

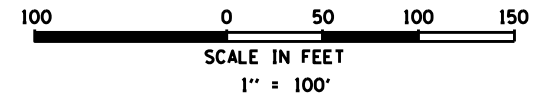
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MBX-BY&R	WILL	271	153
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-04



- NOTES:**
1. AERIAL CABLE MINIMUM CLEARANCE TO GRADE SHALL BE PER THE NATIONAL ELECTRICAL SAFETY CODE TABLE 232-1 OR AS DIRECTED BY THE ENGINEER.
 2. SERVICE AERIAL CABLE SHALL BE 3/C #3/0 WITH GROUNDED MESSENGER WIRE.
 3. CONTRACTOR SHALL OBTAIN TEMPORARY LIGHTING CONTROLLER FROM IDOT STOCK.
 4. CONTRACTOR SHALL INSTALL ONE (1) 1-POLE, 20 AMP, 120V CIRCUIT BREAKER IN TEMPORARY LIGHTING CONTROLLER. CIRCUIT BREAKER WILL BE USED TO FEED CAMERA ON RAMP D. CONTRACTOR CAN TAKE ONE OF THE SPARE CIRCUIT BREAKERS FROM EXISTING CONTROLLER "R". INSTALLING CIRCUIT BREAKER SHALL BE INCIDENTAL TO THE PAY ITEM FOR TEMPORARY LIGHTING CONTROLLER, INSTALL ONLY.

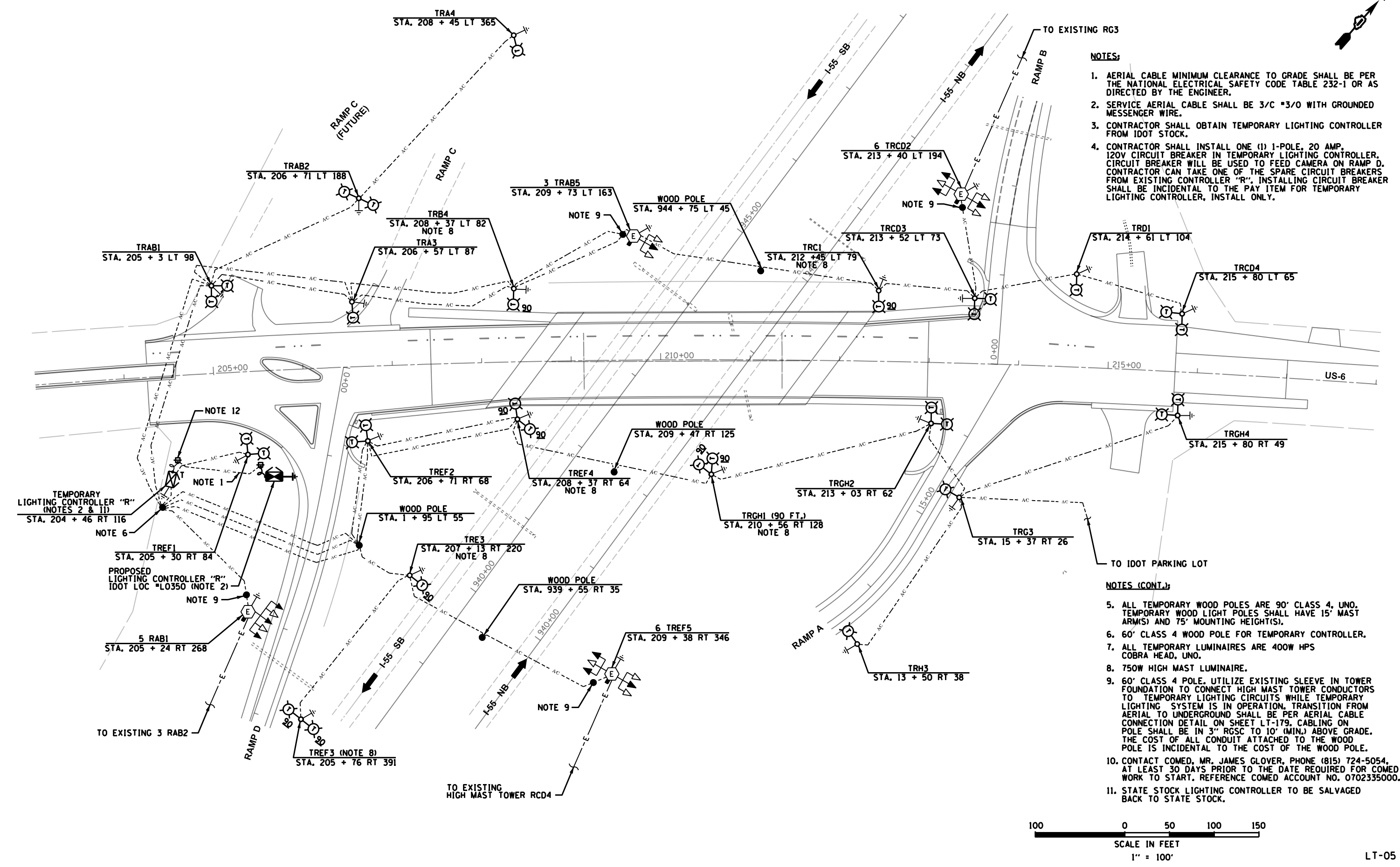
- NOTES (CONT.):**
5. ALL TEMPORARY WOOD POLES ARE 90' CLASS 4, UNO. TEMPORARY WOOD LIGHT POLES SHALL HAVE 15' MAST ARMS AND 75' MOUNTING HEIGHT(S).
 6. 60' CLASS 4 WOOD POLE FOR TEMPORARY CONTROLLER.
 7. ALL TEMPORARY LUMINAIRES ARE 400W HPS COBRA HEAD, UNO.
 8. 750W HIGH MAST LUMINAIRE.
 9. 60' CLASS 4 POLE. UTILIZE EXISTING SLEEVE IN TOWER FOUNDATION TO CONNECT HIGH MAST TOWER CONDUCTORS TO TEMPORARY LIGHTING CIRCUITS WHILE TEMPORARY LIGHTING SYSTEM IS IN OPERATION. TRANSITION FROM AERIAL TO UNDERGROUND SHALL BE PER AERIAL CABLE CONNECTION DETAIL ON SHEET LT-179. CABLING ON POLE SHALL BE IN 3" RGSC TO 10' (MIN.) ABOVE GRADE. THE COST OF ALL CONDUIT ATTACHED TO THE WOOD POLE IS INCIDENTAL TO THE COST OF THE WOOD POLE.
 10. CONTACT COMED, MR. JAMES GLOVER, PHONE (815) 724-5054, AT LEAST 30 DAYS PRIOR TO THE DATE REQUIRED FOR COMED WORK TO START. REFERENCE COMED ACCOUNT NO. 0702335000.
 11. STATE STOCK LIGHTING CONTROLLER TO BE SALVAGED BACK TO STATE STOCK.



DATE	
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ORIGINAL SURVEY	
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TEMPLATE	
NO. BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
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AREAS CHECKED	
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PLOT SCALE = 1/8" = 10' / in.
 PLOT DATE = 10/31/2014
 FILE NAME = LT-95 Temporary Lighting Plan.dgn



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DESIGNED	L.F.	REVISED	
DRAWN	R.C.	REVISED	
CHECKED	I.B.	REVISED	
DATE	September, 2014	REVISED	

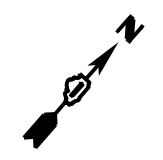
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE US 6 AND I-55
 TEMPORARY LIGHTING PLAN**

SCALE: 1"=100' SHEET NO. 5 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

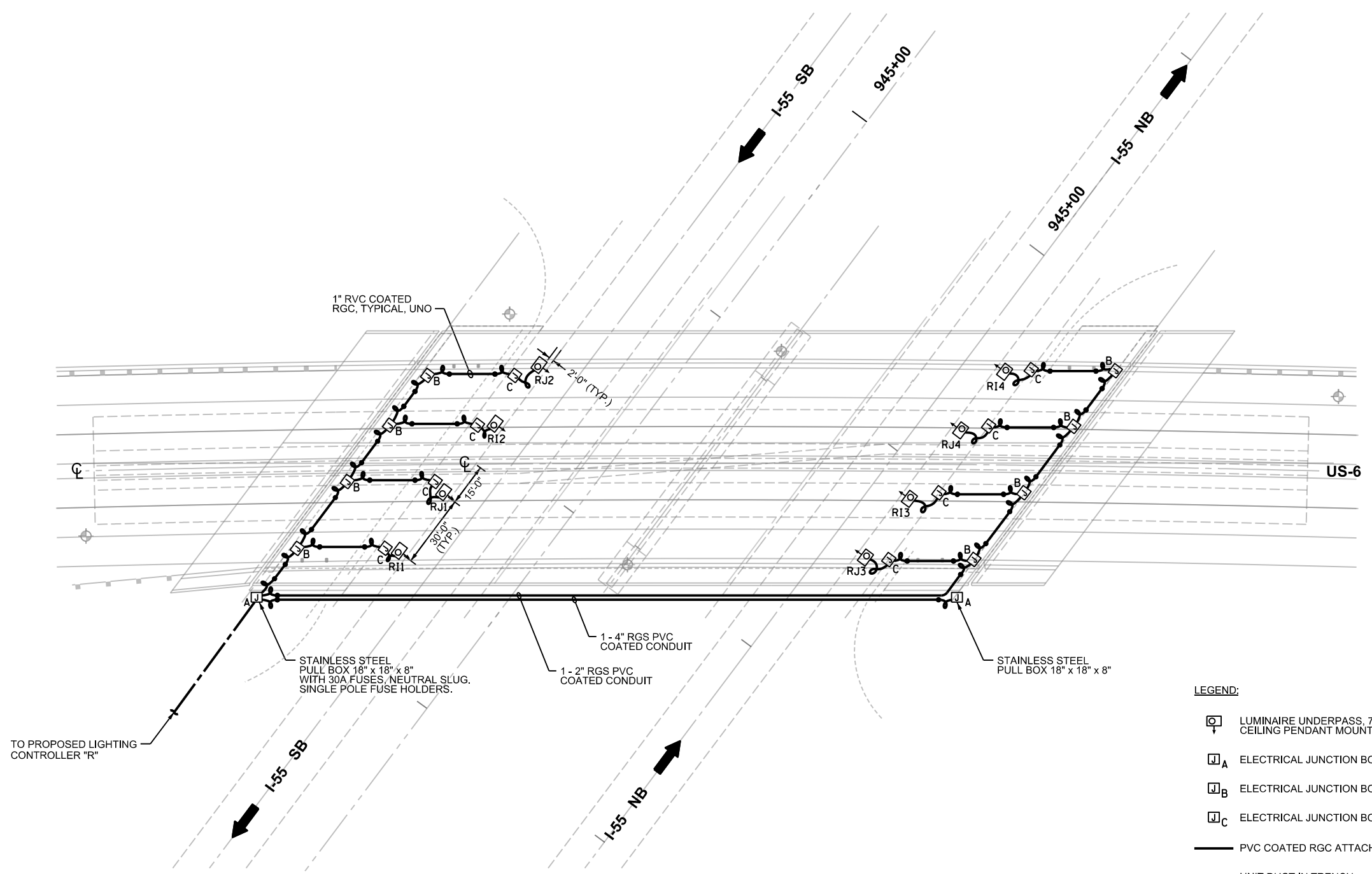
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&R-BY&R	WILL	271	154
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-05

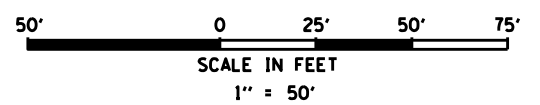


FINAL SURVEY NO.	DATE
SURVEYED	
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TEMPLATE	
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ORIGINAL SURVEY NO.	DATE
SURVEYED	
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TEMPLATE	
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- LEGEND:**
- LUMINAIRE UNDERPASS, 70W, MC III CEILING PENDANT MOUNTING
 - ELECTRICAL JUNCTION BOX, 18" x 18" x 8"
 - ELECTRICAL JUNCTION BOX, 12" x 10" x 6"
 - ELECTRICAL JUNCTION BOX, 6" x 6" x 4"
 - PVC COATED RGC ATTACHED TO STRUCTURE
 - UNIT DUCT IN TRENCH
 - LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC). REFER TO UNDERPASS LIGHTING DETAIL (DWG. LT-31) FOR SIZES.



PLOT SCALE: 50.0000' / 1" /
 PLOT DATE: 10/31/2014
 FILE NAME: LT-06 Proposed Underpass Lighting Plan.dgn

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DRAWN - R.C.	REVISED -
CHECKED - I.B.	REVISED -
DATE - September, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE US 6 AND I-55
 PROPOSED UNDERPASS LIGHTING PLAN**

SCALE: 1" = 50' SHEET NO. 6 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

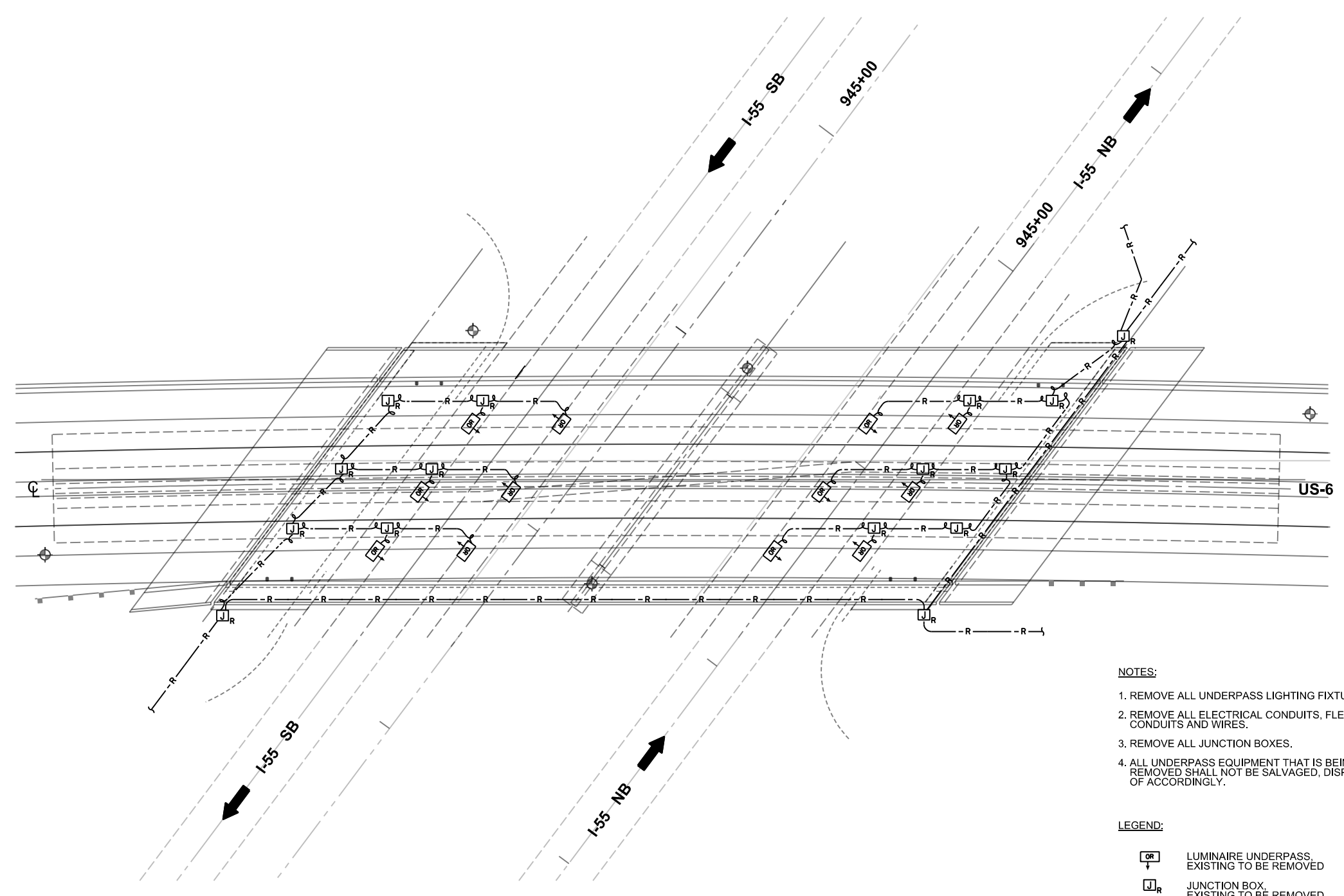
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MBX-BY&R	WILL	271	155
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

LT-06



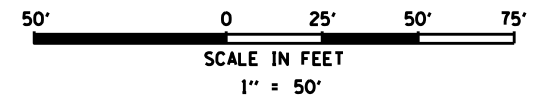
FINAL SURVEY NO.	DATE
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ORIGINAL SURVEY NO.	DATE
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PLOTTED	
TEMPLATE	
AREAS CHECKED	



- NOTES:**
1. REMOVE ALL UNDERPASS LIGHTING FIXTURES.
 2. REMOVE ALL ELECTRICAL CONDUITS, FLEXIBLE CONDUITS AND WIRES.
 3. REMOVE ALL JUNCTION BOXES.
 4. ALL UNDERPASS EQUIPMENT THAT IS BEING REMOVED SHALL NOT BE SALVAGED, DISPOSED OF ACCORDINGLY.

- LEGEND:**
- LUMINAIRE UNDERPASS, EXISTING TO BE REMOVED
 - JUNCTION BOX, EXISTING TO BE REMOVED
 - UNIT DUCT IN TRENCH, EXISTING TO BE REMOVED



PLOT SCALE: 50.0000' / 1"
 PLOT DATE: 9/26/2014
 FILE NAME: LT-07 Underpass Lighting Removal Plan.dgn

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DESIGNED - L.F.	REVISED -
DRAWN - R.C.	REVISED -
CHECKED - I.B.	REVISED -
DATE - September, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE US 6 AND I-55
 UNDERPASS LIGHTING REMOVAL PLAN**

SCALE: 1"=50' SHEET NO. 7 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

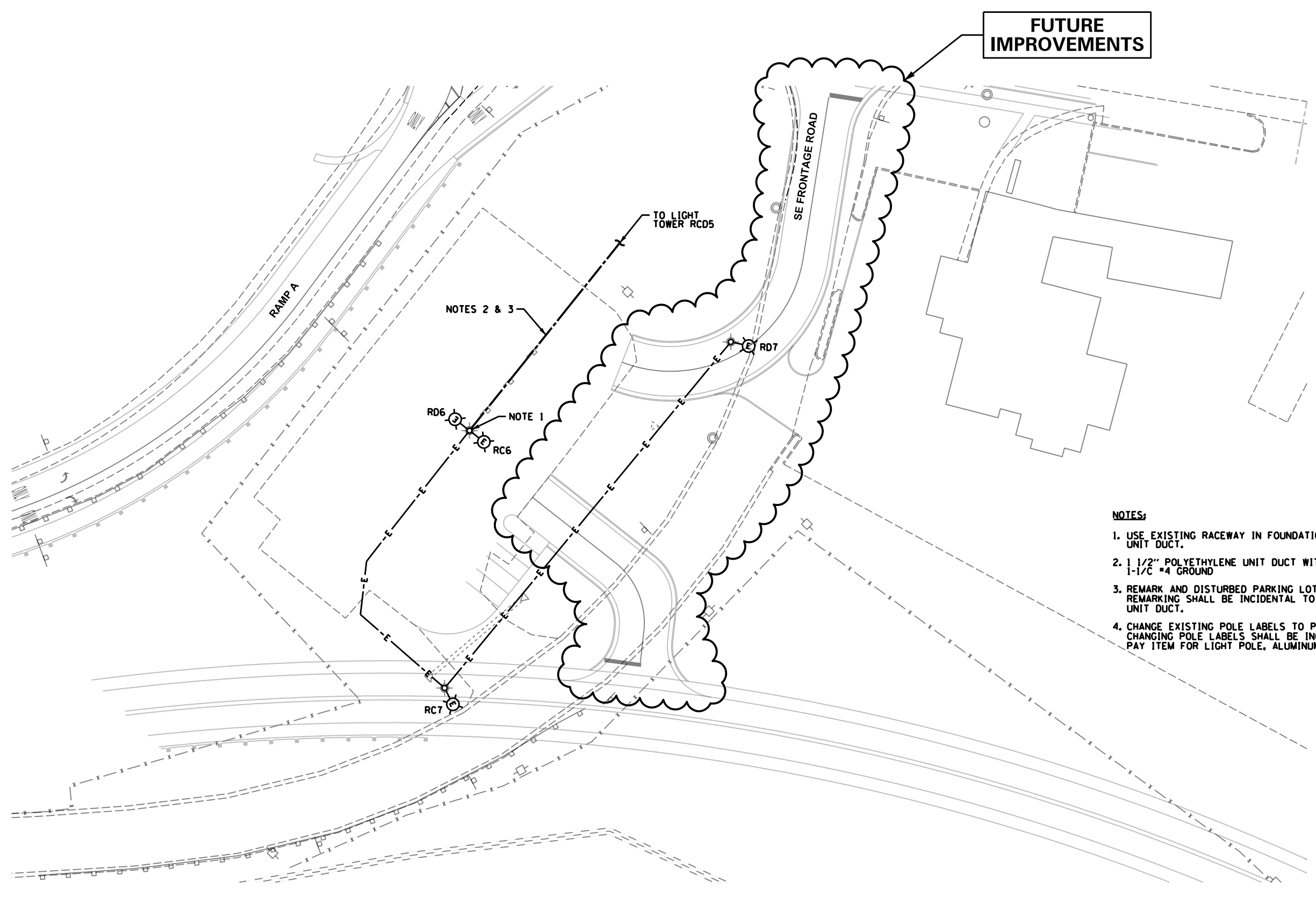
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MBK-BY&R	WILL	271	156
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-07

DATE	
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NOTE BOOK NO.	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	

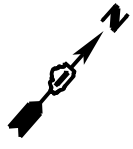
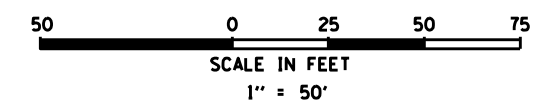
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ORIGINAL SURVEY	
NOTE BOOK NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

PLOT SCALE: 50.0000' / 1" /
PLOT DATE: 9/26/2014
FILE NAME: LT-08 IDOT Parking Lot Light Pole Relocation.dgn



FUTURE IMPROVEMENTS

- NOTES:**
1. USE EXISTING RACEWAY IN FOUNDATION FOR PROPOSED UNIT DUCT.
 2. 1 1/2" POLYETHYLENE UNIT DUCT WITH 3-1/C #2 AND 1-1/C #4 GROUND
 3. REMARK AND DISTURBED PARKING LOT PAVEMENT MARKING. REMARKING SHALL BE INCIDENTAL TO THE PAY ITEM FOR UNIT DUCT.
 4. CHANGE EXISTING POLE LABELS TO PROPOSED LABELS. CHANGING POLE LABELS SHALL BE INCIDENTAL TO THE PAY ITEM FOR LIGHT POLE, ALUMINUM.



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IDFPR LICENSE NO. 184.002673 web: www.SpaanTech.com

DESIGNED	- L.F.	REVISED	-
DRAWN	- R.C.	REVISED	-
CHECKED	- I.B.	REVISED	-
DATE	- September, 2014	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE US 6 AND I-55
IDOT PARKING LOT LIGHT POLE RELOCATION**

SCALE: 1"=50' SHEET NO. 8 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MBX-BY&R	WILL	271	157
				CONTRACT NO. 60X84
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-08

DATE	BY	REVISION

FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.	NO.	NO.	NO.	NO.

DATE	BY	REVISION

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.	NO.	NO.	NO.	NO.

PLOT DATE: 10/21/2014
 FILE NAME: LT-09 Wiring Diagram.dgn

PANEL SCHEDULE AND LOAD TABULATION
 PROPOSE LIGHTING CONTROLLER "R"

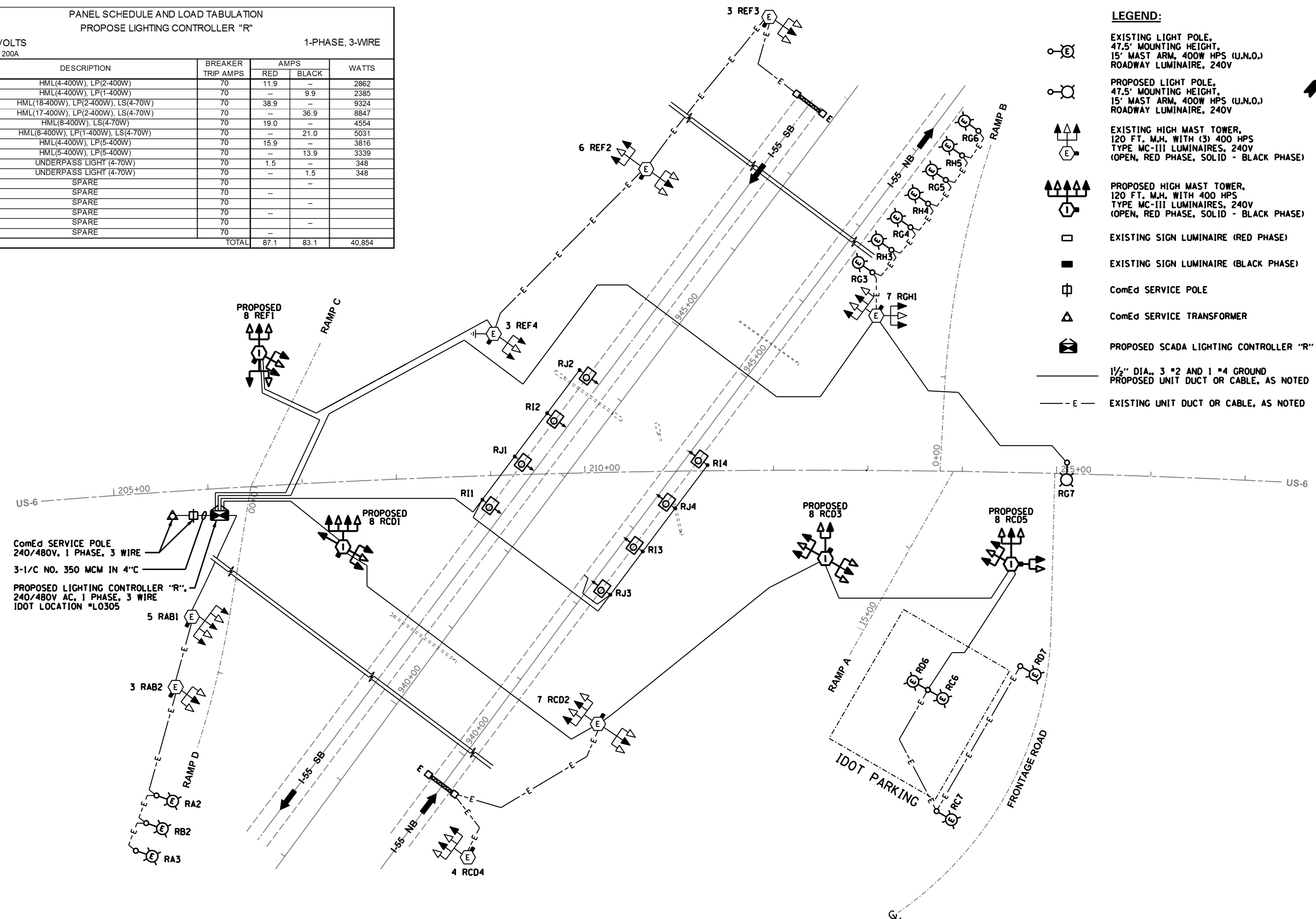
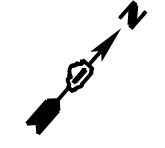
240 / 480 VOLTS
 MAIN BREAKER: 200A

1-PHASE, 3-WIRE

CIRCUIT	DESCRIPTION	BREAKER TRIP AMPS	AMPS		WATTS
			RED	BLACK	
A	HML(4-400W), LP(2-400W)	70	11.9	-	2862
B	HML(4-400W), LP(1-400W)	70	-	9.9	2385
C	HML(18-400W), LP(2-400W), LS(4-70W)	70	38.9	-	9324
D	HML(17-400W), LP(2-400W), LS(4-70W)	70	-	36.9	8847
E	HML(8-400W), LP(1-400W), LS(4-70W)	70	19.0	-	4554
F	HML(8-400W), LP(1-400W), LS(4-70W)	70	-	21.0	5031
G	HML(4-400W), LP(5-400W)	70	15.9	-	3816
H	HML(5-400W), LP(5-400W)	70	-	13.9	3339
I	UNDERPASS LIGHT (4-70W)	70	1.5	-	348
J	UNDERPASS LIGHT (4-70W)	70	-	1.5	348
K	SPARE	70	-	-	-
L	SPARE	70	-	-	-
M	SPARE	70	-	-	-
N	SPARE	70	-	-	-
O	SPARE	70	-	-	-
P	SPARE	70	-	-	-
TOTAL			87.1	83.1	40,854

LEGEND:

- EXISTING LIGHT POLE, 47.5' MOUNTING HEIGHT, 15' MAST ARM, 400W HPS (U.N.O.) ROADWAY LUMINAIRE, 240V
- PROPOSED LIGHT POLE, 47.5' MOUNTING HEIGHT, 15' MAST ARM, 400W HPS (U.N.O.) ROADWAY LUMINAIRE, 240V
- EXISTING HIGH MAST TOWER, 120 FT. M.H. WITH (3) 400 HPS TYPE MC-III LUMINAIRES, 240V (OPEN, RED PHASE, SOLID - BLACK PHASE)
- PROPOSED HIGH MAST TOWER, 120 FT. M.H. WITH 400 HPS TYPE MC-III LUMINAIRES, 240V (OPEN, RED PHASE, SOLID - BLACK PHASE)
- EXISTING SIGN LUMINAIRE (RED PHASE)
- EXISTING SIGN LUMINAIRE (BLACK PHASE)
- ComEd SERVICE POLE
- ComEd SERVICE TRANSFORMER
- PROPOSED SCADA LIGHTING CONTROLLER "R"
- 1 1/2" DIA., 3 #2 AND 1 #4 GROUND PROPOSED UNIT DUCT OR CABLE, AS NOTED
- - - EXISTING UNIT DUCT OR CABLE, AS NOTED

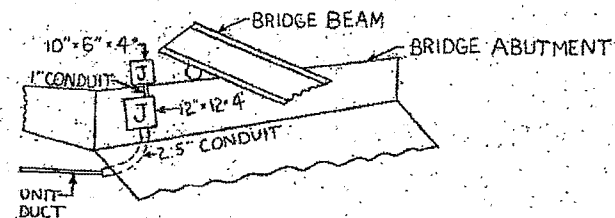


ComEd SERVICE POLE
 240/480V, 1 PHASE, 3 WIRE
 3-1/C NO. 350 MCM IN 4" C

PROPOSED LIGHTING CONTROLLER "R",
 240/480V AC, 1 PHASE, 3 WIRE
 IDOT LOCATION "L0305"

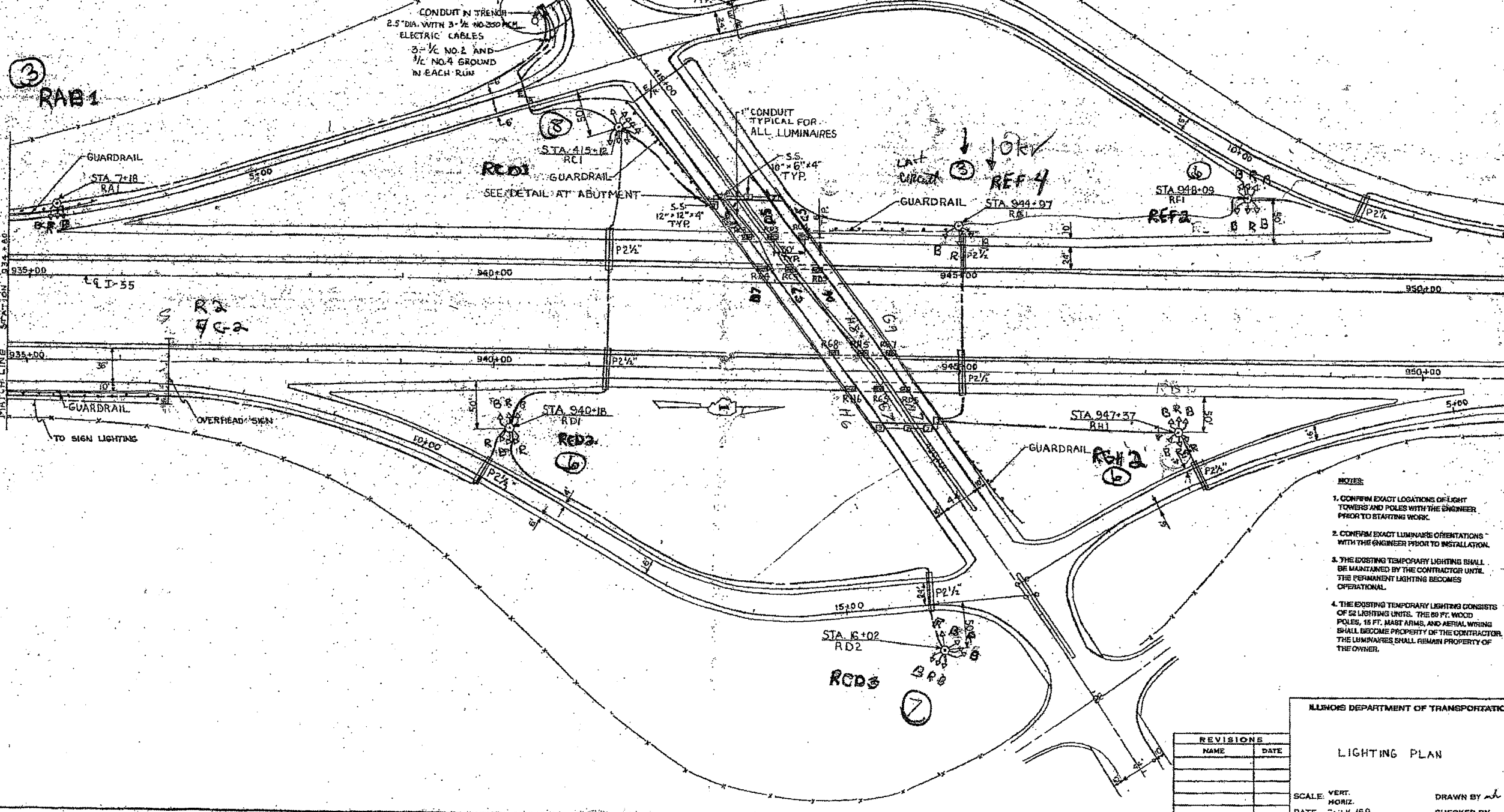
LT-09

CHRISTIAN-ROIGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	SPAAN Tech, Inc. 311 South Wacker Drive, Suite 2400 Chicago, IL 60606 phone: 312.277.8800 fax: 312.277.8809 IDPFR LICENSE NO. 184.002673 web: www.SpaanTech.com	DESIGNED - L.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE US 6 AND I-55 WIRING DIAGRAM		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - R.C.	REVISED -		55	86-1-MBX-BY&R	WILL	271	158		
		CHECKED - I.B.	REVISED -		SCALE: NONE SHEET NO. 9 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX					CONTRACT NO. 60X84	
DATE - September, 2014	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									



DETAIL AT ABUTMENT

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55-86-1L(89)	WILL	9	9
STA. TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



- NOTES:**
1. CONFIRM EXACT LOCATIONS OF LIGHT TOWERS AND POLES WITH THE ENGINEER PRIOR TO STARTING WORK.
 2. CONFIRM EXACT LUMINAIRE ORIENTATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.
 3. THE EXISTING TEMPORARY LIGHTING SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE PERMANENT LIGHTING BECOMES OPERATIONAL.
 4. THE EXISTING TEMPORARY LIGHTING CONSISTS OF 52 LIGHTING UNITS. THE 89 FT. WOOD POLES, 15 FT. MAST ARMS, AND AERIAL WIRING SHALL BECOME PROPERTY OF THE CONTRACTOR. THE LUMINAIRES SHALL REMAIN PROPERTY OF THE OWNER.

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

SCALE: VERT. _____
 HORIZ. _____
 DATE: JULY '89

DRAWN BY *al*
 CHECKED BY _____

REVISIONS	
NAME	DATE

FOR REFERENCE ONLY

DATE	BY

SURVEYED
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

DATE	BY

SURVEYED
 PLOTTED
 TEMPLATE
 AREAS CHECKED

PLOT DATE: 8/3/2014
 FILE NAME: 431-1B Existing Lighting Plan, Sheet A.dwg

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
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 CHICAGO, ILLINOIS 60606
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 311 South Wacker Drive, Suite 2400
 Chicago, IL 60606
 (312) 377-8800
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DESIGNED - L.F.	REVISED -
DRAWN - R.C.	REVISED -
CHECKED - I.B.	REVISED -
DATE - August 1, 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

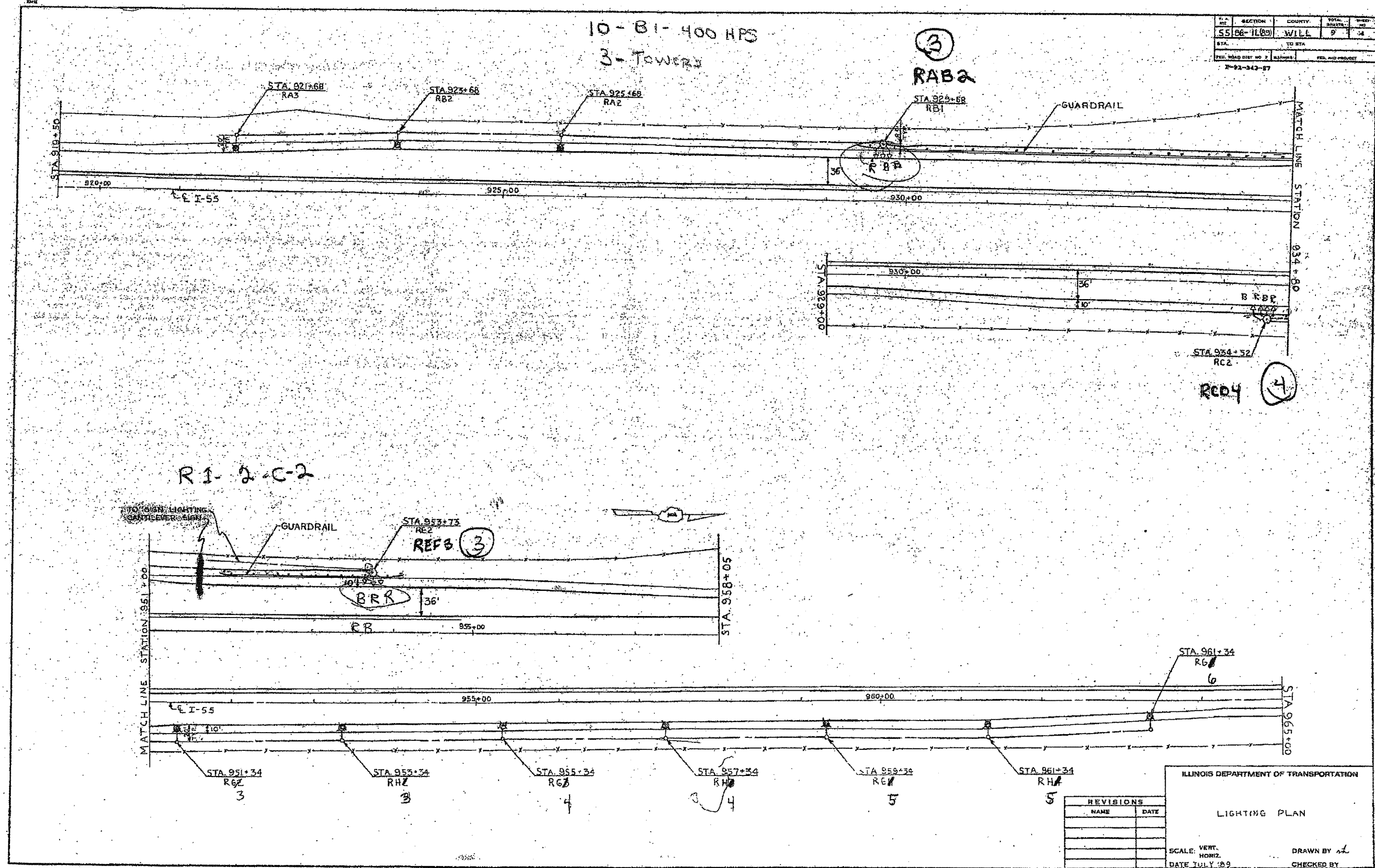
EXISTING LIGHTING PLAN SHEET A		SCALE: NONE	
SHEET NO. 10 OF 31 SHEETS	STA. XXX+XX	TO STA. XXX+XX	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&R-BY&R	WILL	271	159
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LT-10

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL	
NOTE BOOK	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NOTE BOOK	
NO.	



S.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-11(89)	WILL.	9	4
STA.	TO STA.			
FED. ROAD DIST. NO. 7		ROUTE	FED. AID PROJECT	
2-91-343-87				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

SCALE: VERT. _____

HORIZ. _____

DATE: JULY 02

DRAWN BY: *sl*

CHECKED BY: _____

FOR REFERENCE ONLY

LT-11

PLOT DATE 8/2/2014

FILE NAME LT-11 Existing Lighting Plan, Sheet B.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
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311 South Wacker Drive, Suite 2400
Chicago, IL 60606
IDFPR LICENSE NO. 184.002673 www.SpaanTech.com

DESIGNED	L.F.	REVISED	-
DRAWN	R.C.	REVISED	-
CHECKED	I.B.	REVISED	-
DATE	August, 2014	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLAN
SHEET B

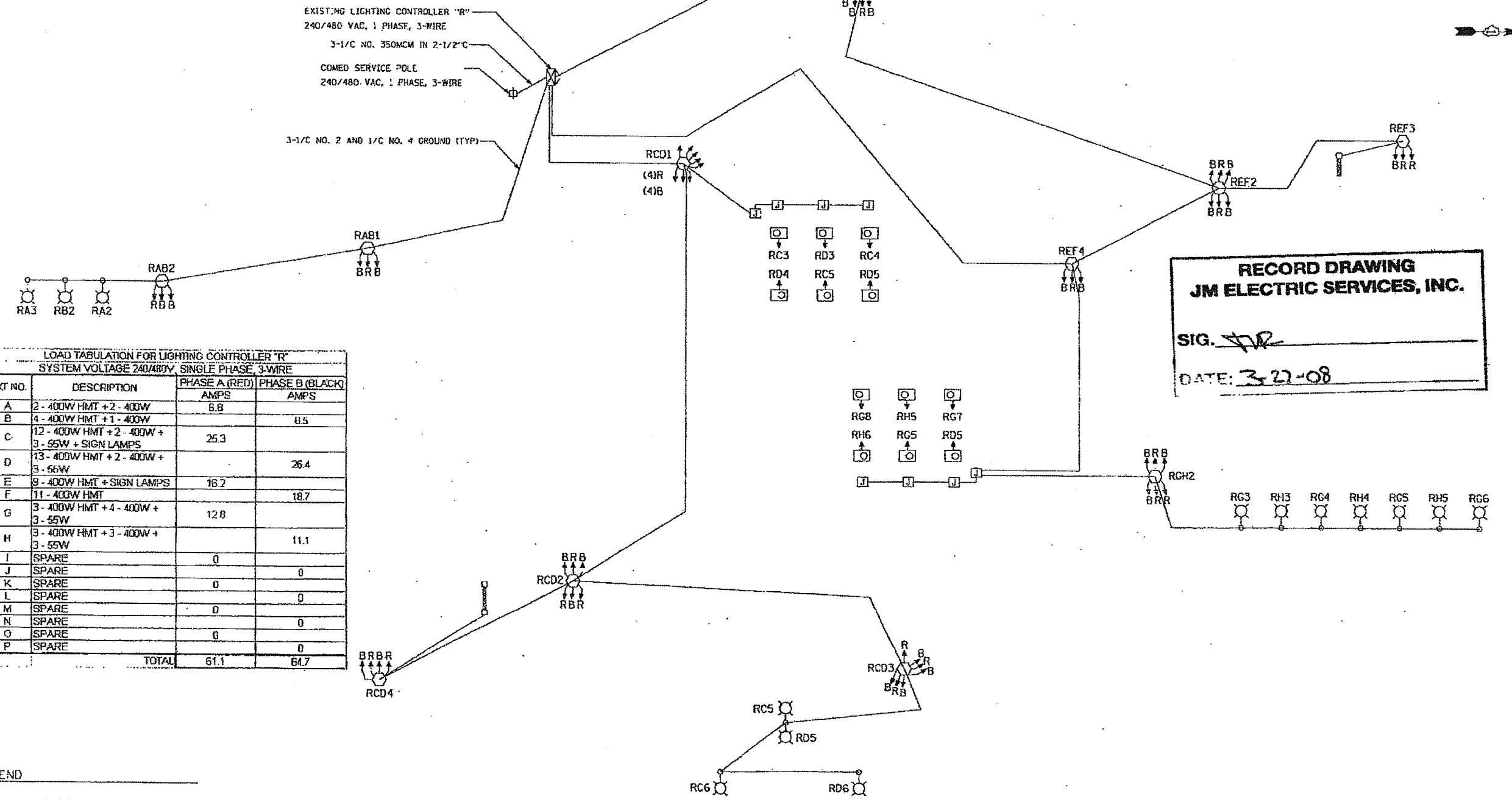
SCALE: NONE

SHEET NO. 11 OF 31 SHEETS

STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&K-BY&R	WILL	271	160
			CONTRACT NO. 60X84	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2007-003 I	WILL	44	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



LOAD TABULATION FOR LIGHTING CONTROLLER "R"
SYSTEM VOLTAGE 240/480V, SINGLE PHASE, 3-WIRE

CKT NO.	DESCRIPTION	PHASE A (RED) PHASE B (BLACK)	
		AMPS	AMPS
A	2 - 400W HMT + 2 - 400W	6.8	
B	4 - 400W HMT + 1 - 400W		0.5
C	12 - 400W HMT + 2 - 400W + 3 - 55W + SIGN LAMPS	25.3	
D	13 - 400W HMT + 2 - 400W + 3 - 55W		26.4
E	9 - 400W HMT + SIGN LAMPS	18.2	
F	11 - 400W HMT		18.7
G	3 - 400W HMT + 4 - 400W + 3 - 55W	12.8	
H	3 - 400W HMT + 3 - 400W + 3 - 55W		11.1
I	SPARE	0	
J	SPARE		0
K	SPARE	0	
L	SPARE		0
M	SPARE	0	
N	SPARE		0
O	SPARE	0	
P	SPARE		0
TOTAL		61.1	64.7

RECORD DRAWING
JM ELECTRIC SERVICES, INC.
SIG. *JM*
DATE: 3-27-08

LEGEND

- LUMINAIRE, 400W HPS
- UNDERPASS LUMINAIRE, 55W LPS
- HIGH MAST LIGHTING UNIT, CIRCUIT AS SHOWN. TRIANGLES INDICATE NUMBER OF HIGH PRESSURE SODIUM HIGH MAST LUMINAIRES AND ORIENTATION OF LUMINAIRES. UNLESS OTHERWISE INDICATED HIGH MAST LUMINAIRES ARE 400W MCFL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FBI ROUTE 55 R.L.S. 6 TO U.S. 301
PARK AND RIDE LOTS

LIGHTING CONTROLLER "R"
WIRING DIAGRAM

SCALE: N.T.S. DRAWN BY: MWP
DATE: 06/14/01 CHECKED BY: JM

TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

FOR REFERENCE ONLY

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
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PHONE: (312)372-2023 FAX: (312)372-5274

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fax: 312.277.8888
DDPFA LIC. 00285673 www: www.SpaanTech.com

DESIGNED - L.F.	REVISED -
DRAWN - R.C.	REVISED -
CHECKED - J.B.	REVISED -
DATE - August, 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING WIRING DIAGRAM

SCALE: NONE SHEET NO. 12 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MK-BY&R	WILL	271	161
CONTRACT NO. 60R84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	BY

SURVEYED
PLOTTED
NOTE BOOK
AREAS CHECKED

DATE	BY

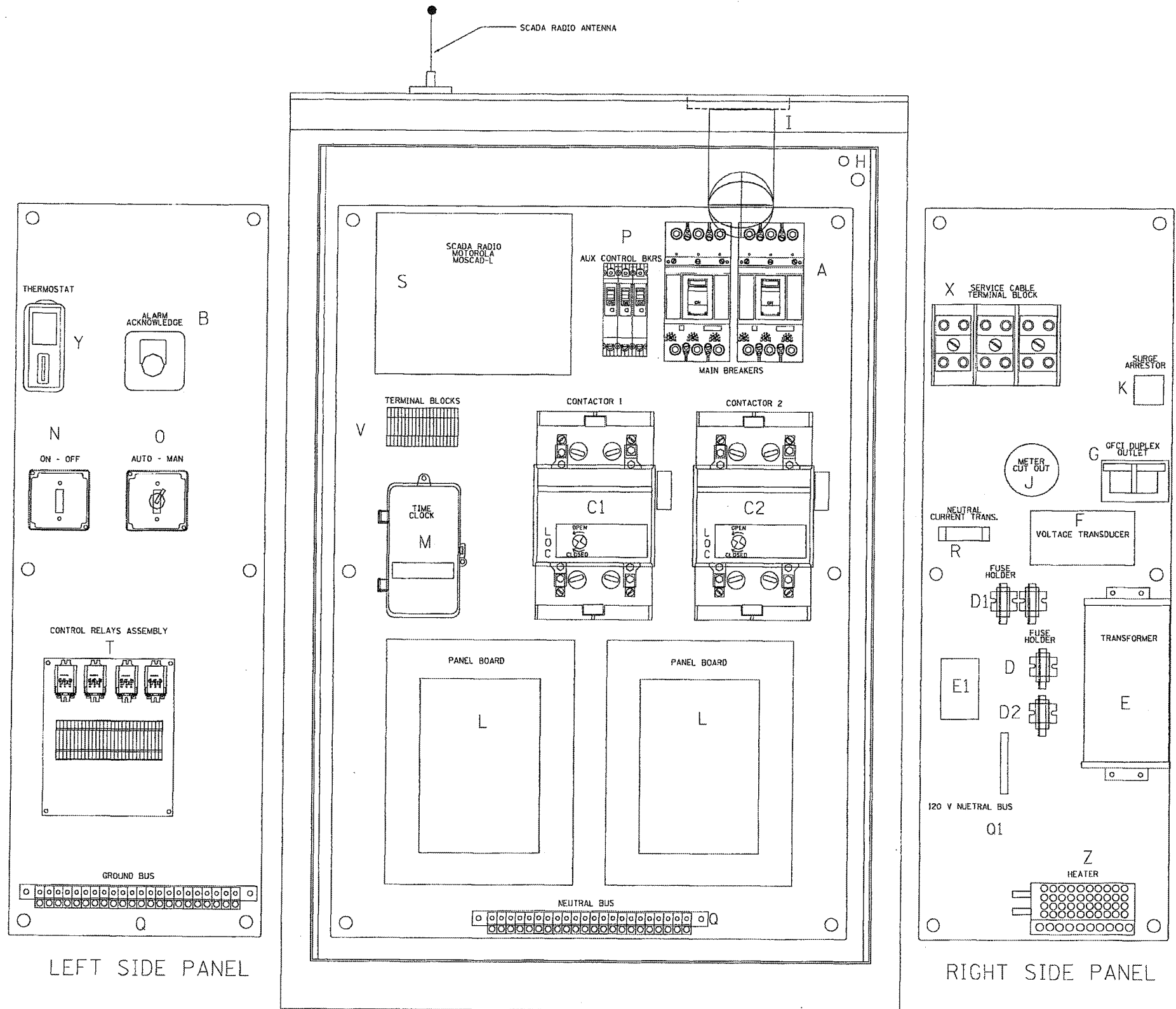
ORIGINAL
SURVEY
NOTE BOOK
AREAS CHECKED

PLT DATE: 9/2/2014
FILE NAME: LT-12 Existing Wiring Diagram.dgn

DATE	
BY	
FINISHED	
SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
FINISHED	
SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

PLOT DATE - 9/2/2014
FILE NAME - LT-13 Lighting Controller-Base Mounted.dwg



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK-20 FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK-2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA 240/120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVERED TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 900IKS11BH13, 2 POSITION SWITCH IN 900IKY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 x 16 x 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 3 PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4) - QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SLPICE BLOCK
Y	1	40-80 DEG THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

CHRISTIAN-ROGE & ASSOCIATES, INC.
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DRAWN - R.C.	REVISED -
CHECKED - I.B.	REVISED -
DATE - August, 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED
480 VOLT, 200 AMP, (DUAL) RADIO SCADA

SCALE: NONE SHEET NO. 13 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

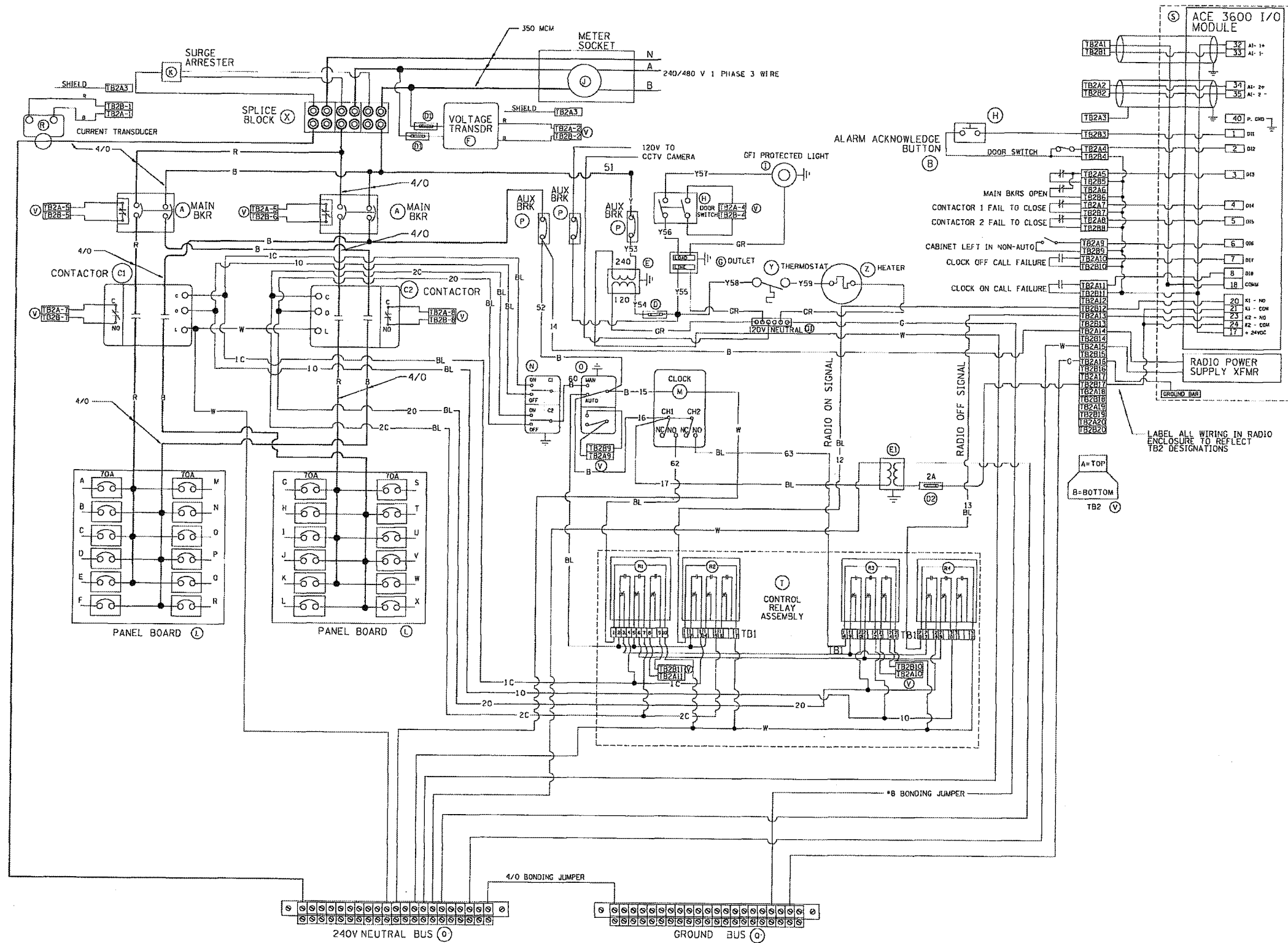
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&K-BY&R	WILL	271	162
CONTRACT NO. 60X84				

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

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
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REVISIONS	
NO.	

DATE	
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REVISIONS	
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REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

PLOT DATE 05/23/2014
 FILE NAME LT-14 Lighting Controller-Base Mount.dgn



BILL OF MATERIALS		
ITEM #	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK-20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK-2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA 240/120-24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER
G	1	15 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH A-2000-B7-K
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 900KSLIBH3, 2 POSITION SWITCH IN 900KY1 ENCLOSURE
P	2	BREAKER IP 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 x 16 x 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 1/0 AND #6 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA ACE 3600
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 3 PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4) . QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	520 AMP SPLICE BLOCK
Y	1	40-80 DEG THERMOSTAT
Z	1	375 WATT HEATER

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DESIGNED - L.F.	REVISED -
DRAWN - R.C.	REVISED -
CHECKED - I.B.	REVISED -
DATE - August, 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

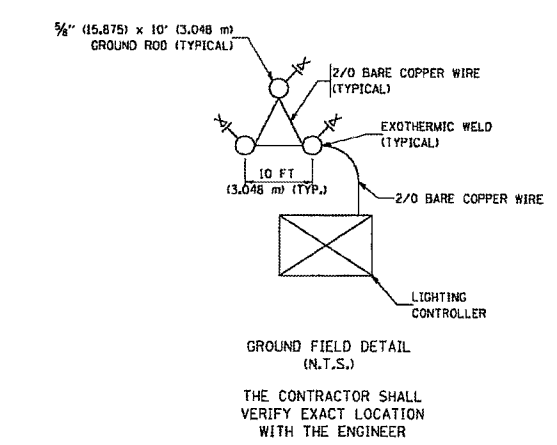
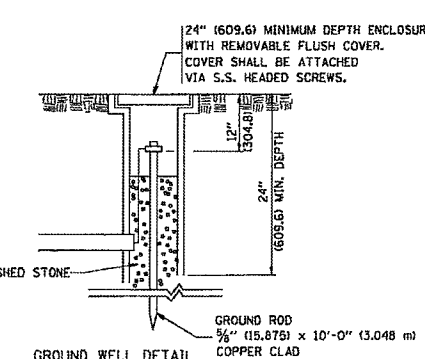
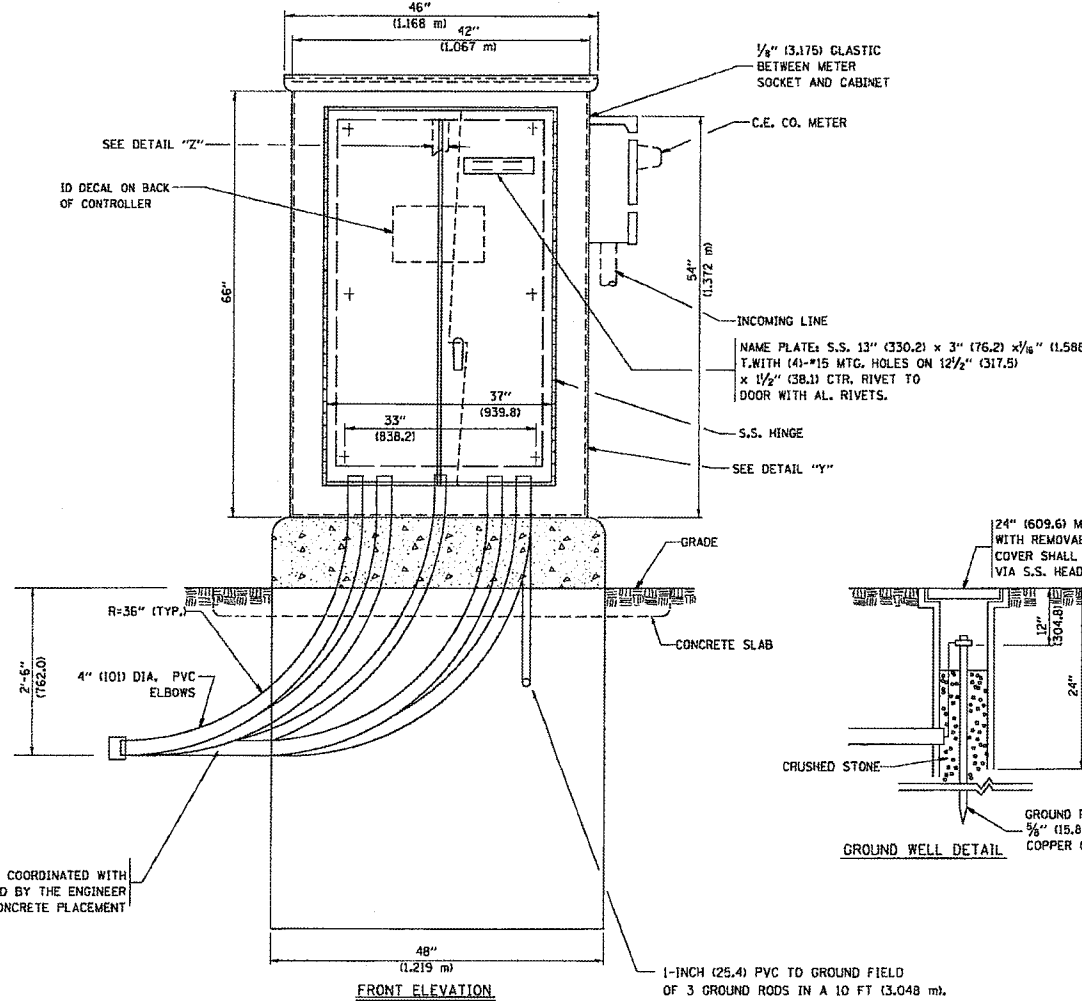
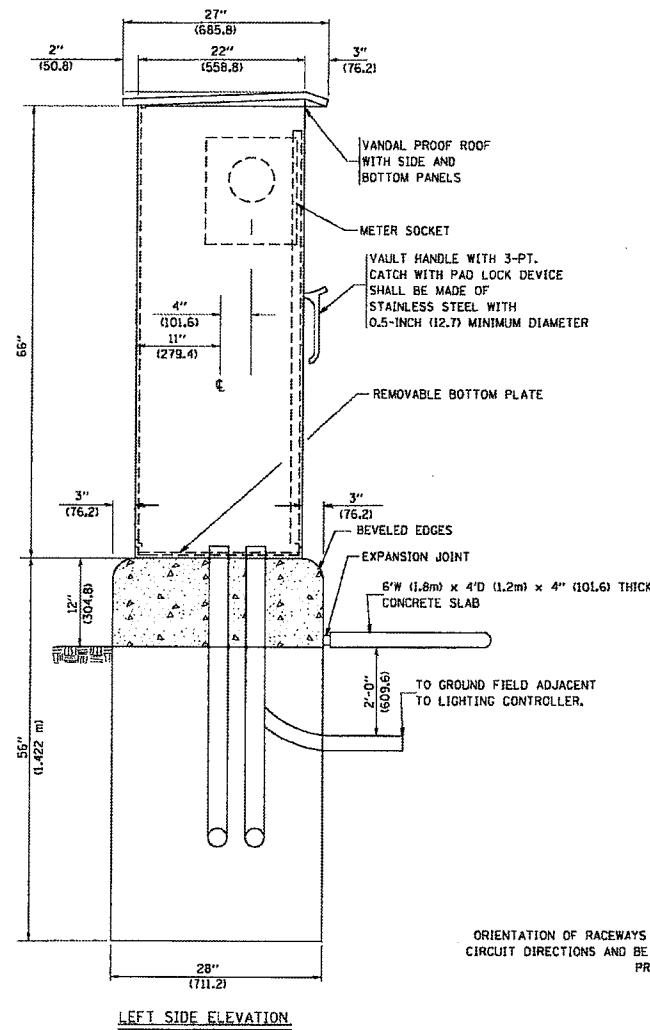
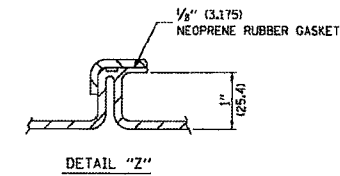
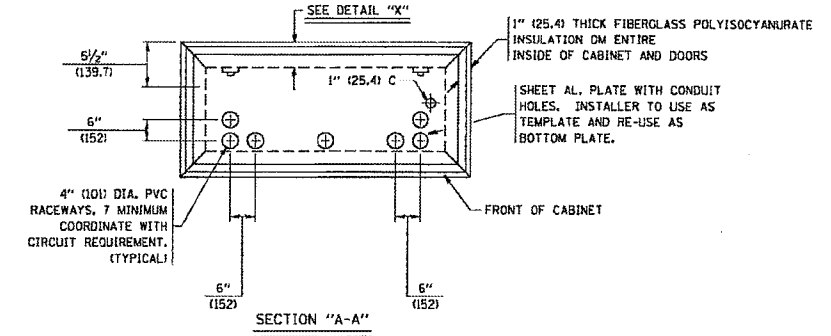
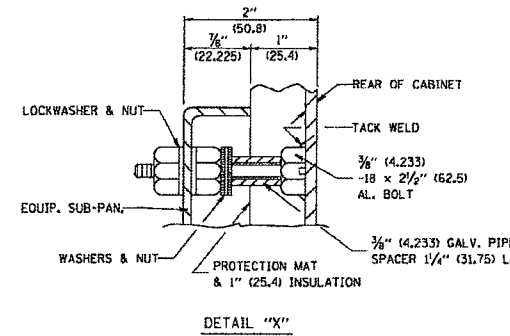
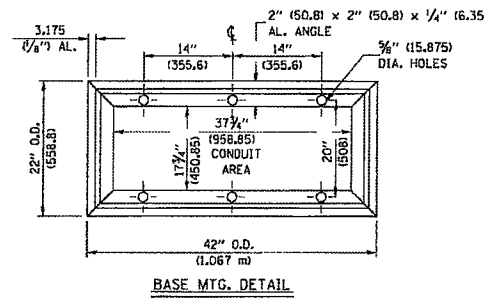
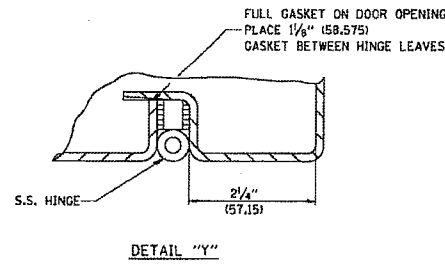
LIGHTING CONTROLLER, BASE MOUNTED
 480 VOLT, 200 AMP, (DUAL) RADIO SCADA
 SCALE: NONE SHEET NO. 14 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE. 55	SECTION 86-1-HEK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 163
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60XB4	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE - 9/23/2014
 FILE NAME - LT-15 Lighting Controller, Base Mounted, 480V, 200A, 04a11dgr



ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT

1-INCH (25.4) PVC TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m), TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

CHRISTIAN-ROGE & ASSOCIATES, INC.
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 IDIPR LICENSE NO. 184.002673 web: www.SpaanTech.com

DESIGNED - L.F.	REVISED -
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CHECKED - J.B.	REVISED -
DATE - August, 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED
 480 VOLT, 200 AMP, (DUAL) RADIO SCADA
 SCALE: NONE SHEET NO. 15 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
55	86-1-MK-BY&R	WILL	271	164
CONTRACT NO. 60XB4				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

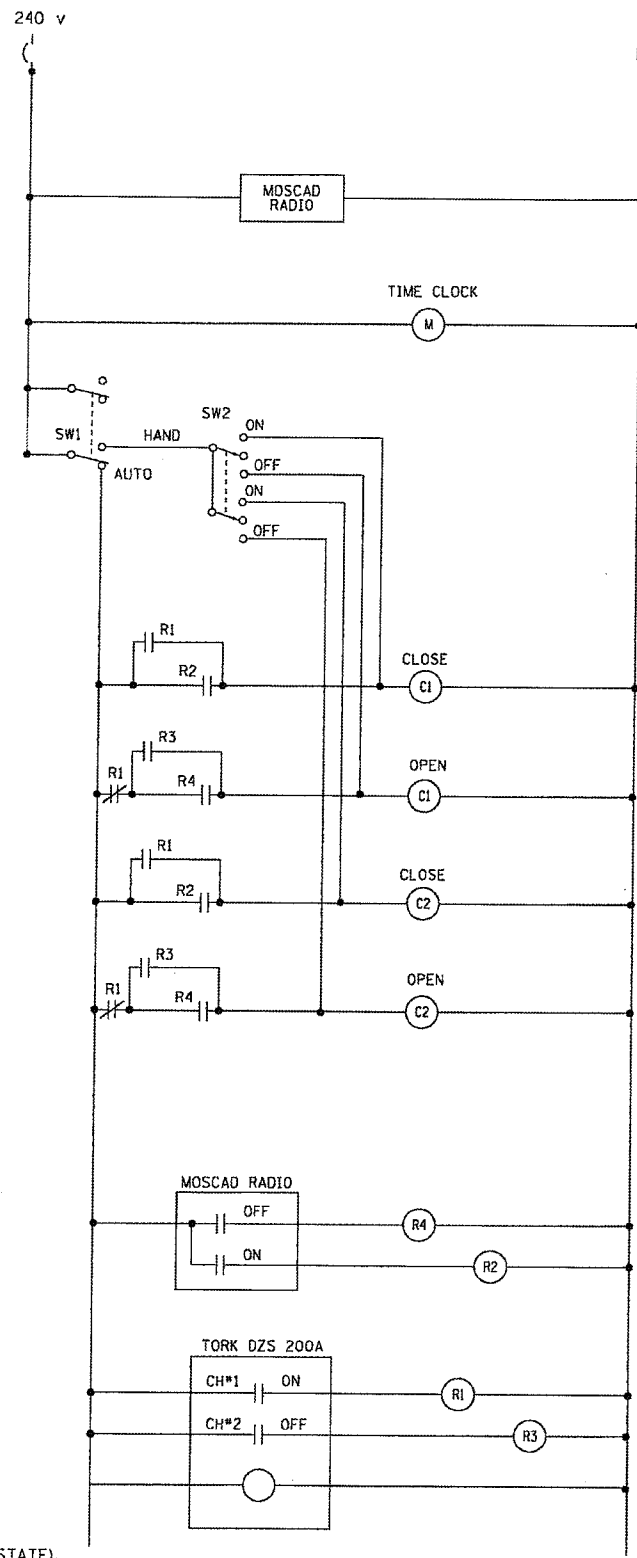
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NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK; "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R - RED	Y - YELLOW
B - BLACK	W - WHITE
BL - BLUE	G - GREEN
	GR - GREY
- MOSCAD I/O WIRING SHALL BE:
 - DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
 - ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
 - AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAINSI BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD
MIXED I/O MODULE MODEL NUMBER V436

PLOT DATE = 9/2/2014
FILE NAME = LT-16 Lighting Controller_Base Mounted_480V_200A.dwg

CHRISTIAN-ROGE & ASSOCIATES, INC.
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DATE - August, 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

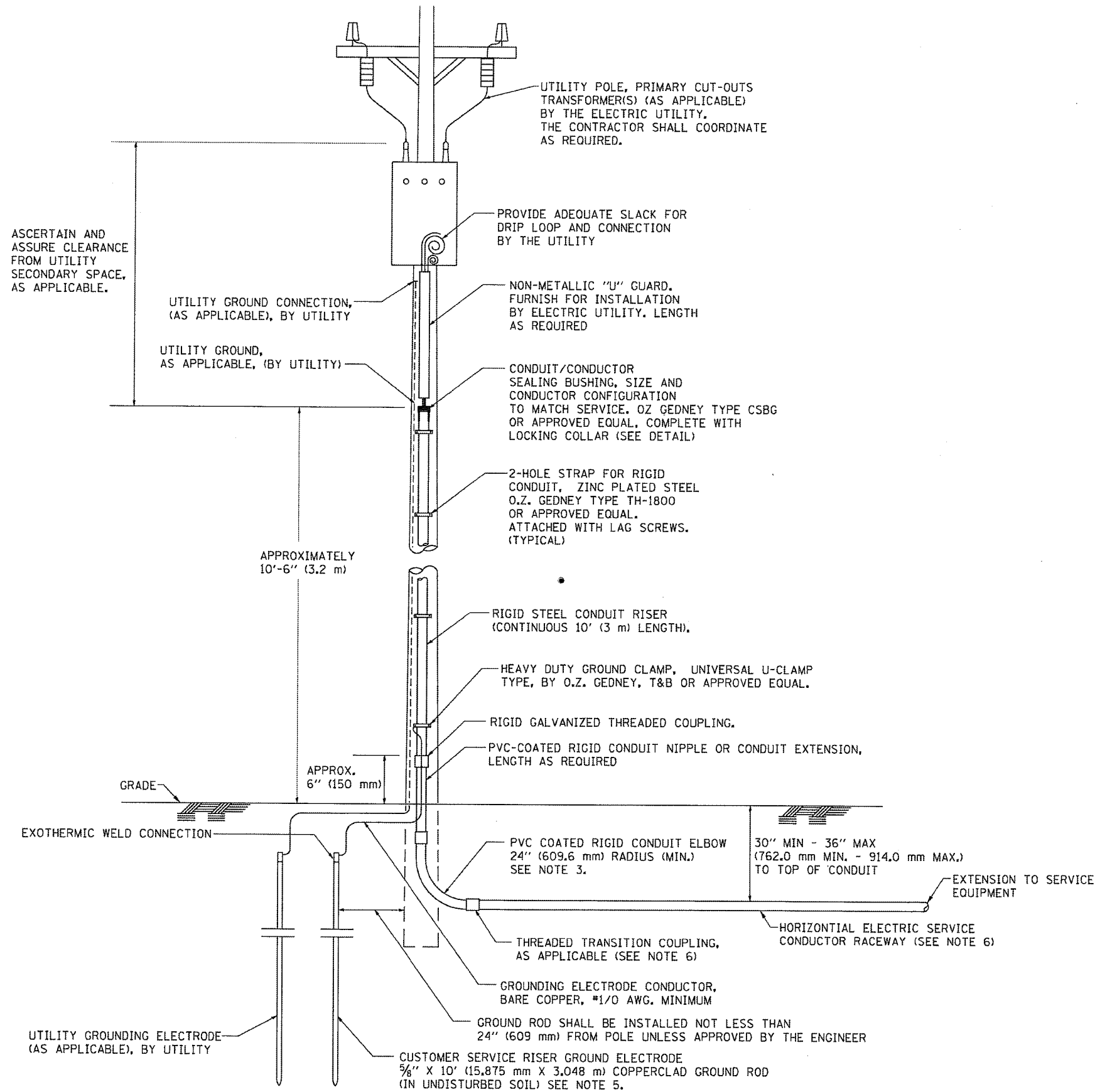
LIGHTING CONTROLLER, BASE MOUNTED
480 VOLT, 200 AMP, (DUAL) RADIO SCADA
SCALE: NONE SHEET NO. 16 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-MK-BY&R	WILL	271	165
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED	
NOTED	
NO.	

DATE	
BY	
FINISHED	
NOTED	
NO.	

PLOT DATE: 9/23/2014
 FILE NAME: LT-17 Electric Service Installation, Aerial, Remote Disconnect

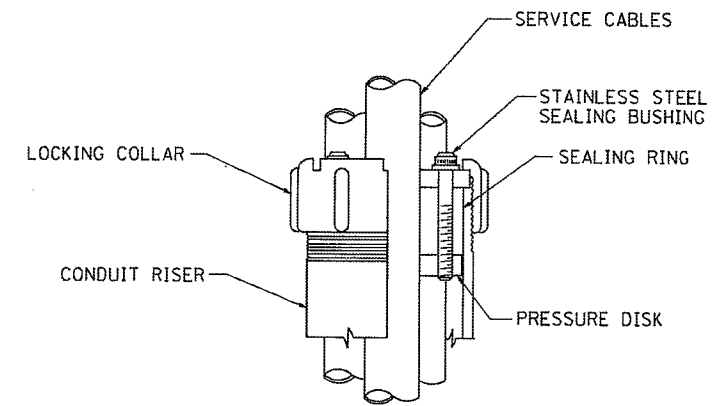


APPLICATION

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

NOTES

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



SEALING BUSHING DETAIL

LT-17

CHRISTIAN-ROGE & ASSOCIATES, INC.
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DESIGNED - L.F.	REVISED -
DRAWN - R.C.	REVISED -
CHECKED - I.B.	REVISED -
DATE - August, 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE INSTALLATION
 AERIAL, REMOTE DISCONNECT
 SCALE: NONE SHEET NO. 17 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1+BX-BY&R	WILL	271	166
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

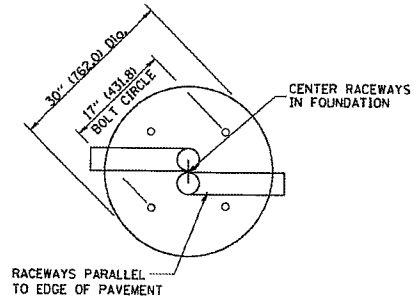
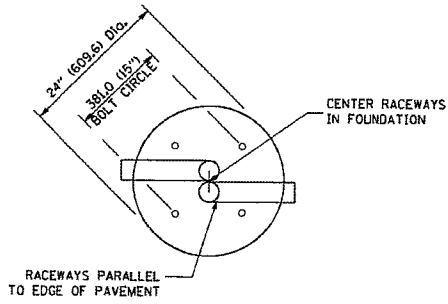
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PLOT DATE: 9/3/2014
 FILE NAME: LT-18 Light Pole Foundation.dwg
 48" to 47.5' M.H., 15" Bolt Circle

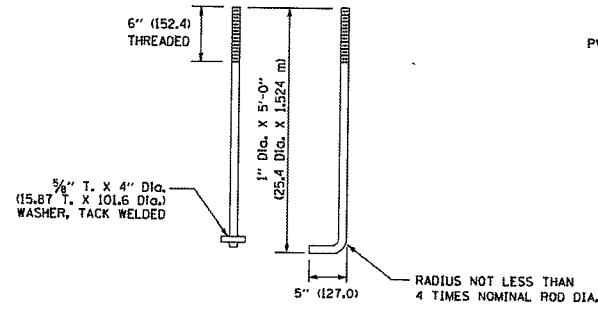
LIGHT POLE FOUNDATION DEPTH TABLE
 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

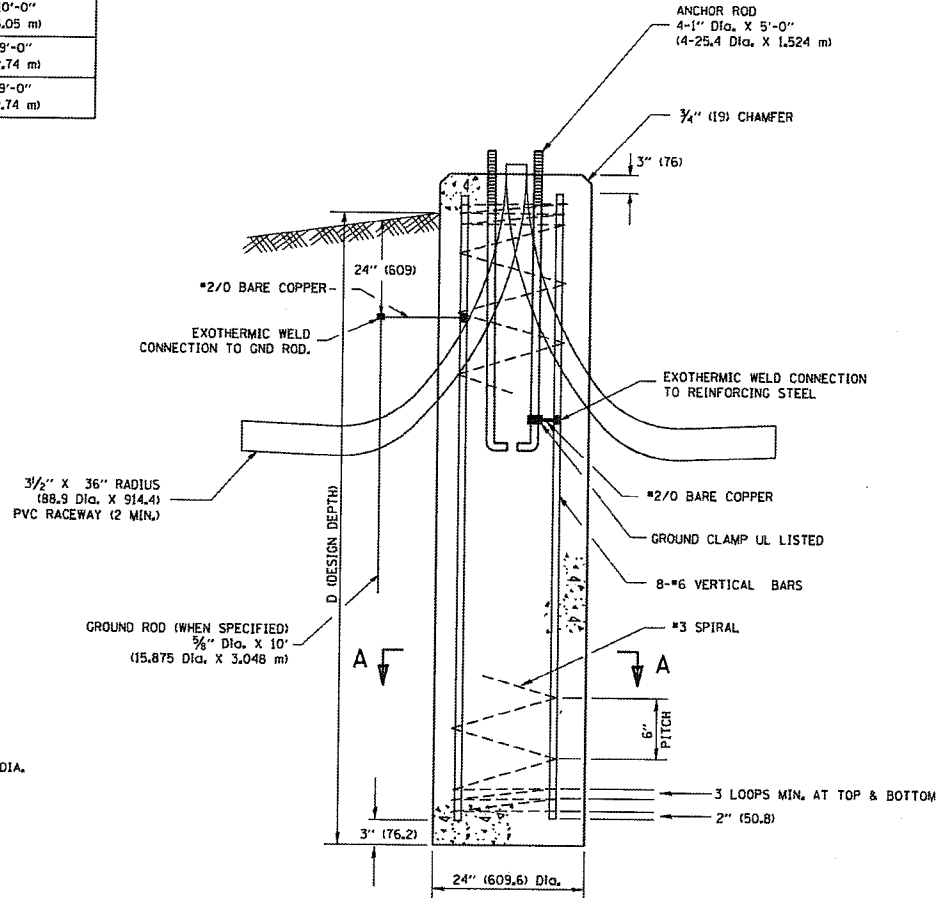


TOP VIEW

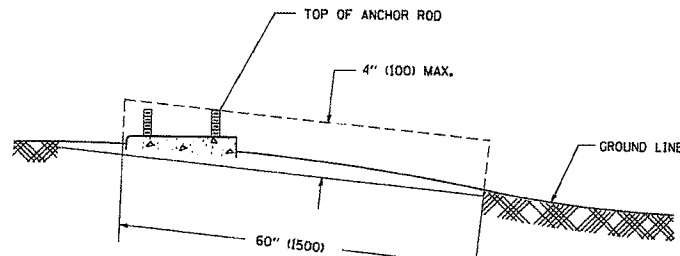
TOP VIEW



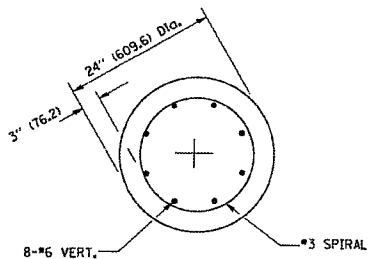
ANCHOR ROD DETAIL



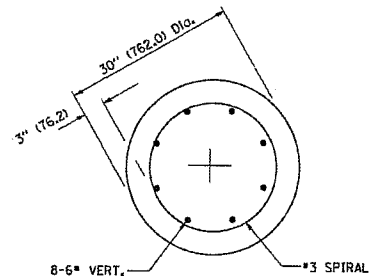
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION. WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI, CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 10S). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 29B, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG (MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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DATE - August, 2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE SHEET NO. 18 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&K-BY&R	WILL	271	167
				CONTRACT NO. 60XB4

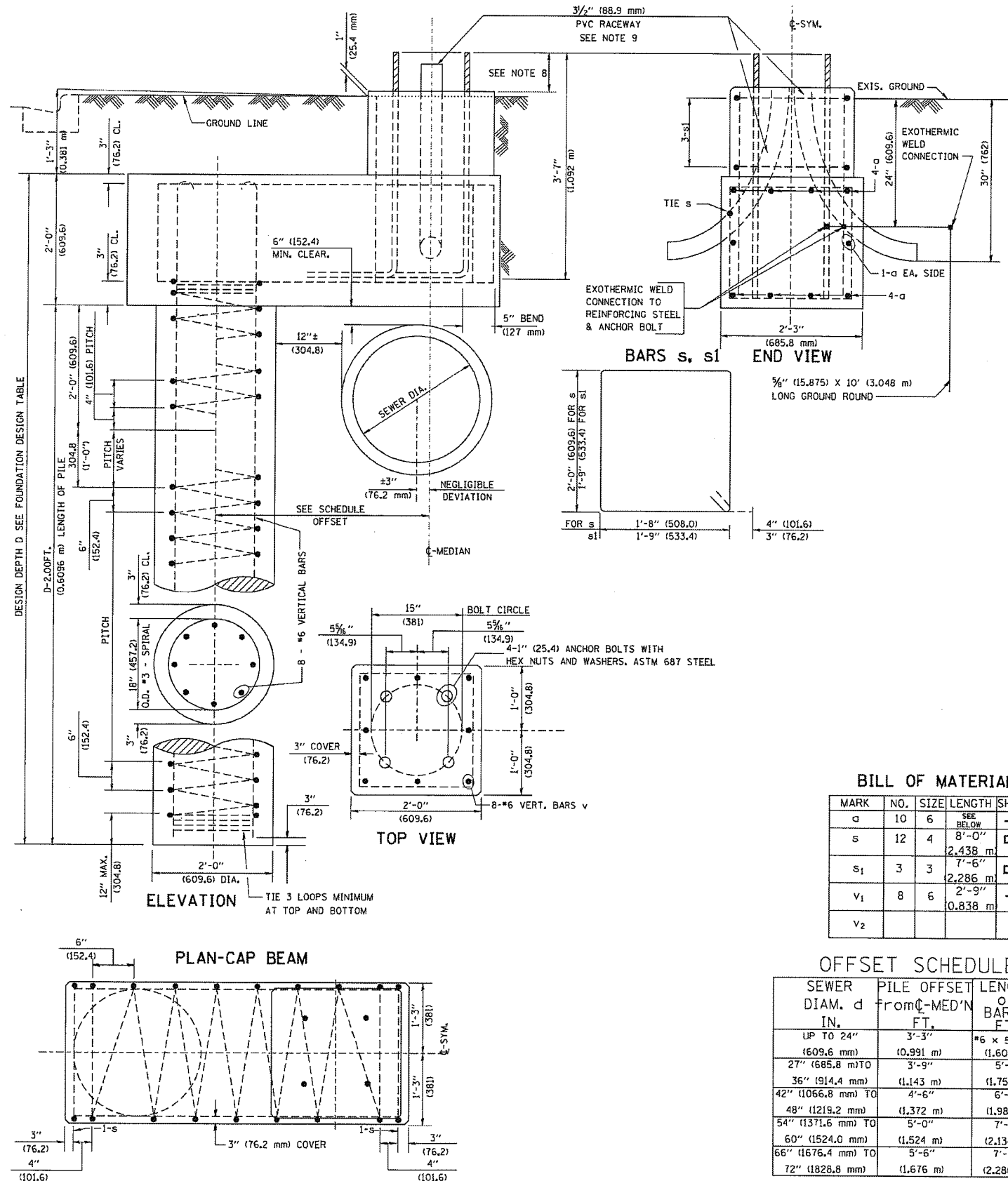
LT-18

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3,962 m)	15'-0" (4,572 m)	8-#6X12'-6" (3,810 m)	#3X122' (37,186 m)	8-#6X14'-3" (4,343 m)	#3X141' (42,977 m)
MEDIUM CLAY	9'-6" (2,896 m)	10'-9" (3,277 m)	8-#6X9'-0" (2,743 m)	#3X90' (27,432 m)	8-#6X10'-0" (3,048 m)	#3X100' (30,480 m)
STIFF CLAY	7'-0" (2,134 m)	8'-0" (2,438 m)	8-#6X6'-6" (1,981 m)	#3X66' (20,112 m)	8-#6X7'-6" (2,286 m)	#3X76' (23,165 m)
LOOSE SAND	9'-0" (2,743 m)	10'-0" (3,048 m)	8-#6X8'-6" (2,591 m)	#3X85' (25,908 m)	8-#6X9'-6" (2,896 m)	#3X94' (28,651 m)
MEDIUM SAND	8'-3" (2,515 m)	9'-0" (2,743 m)	8-#6X8'-0" (2,438 m)	#3X78' (23,774 m)	8-#6X8'-6" (2,591 m)	#3X85' (25,908 m)
DENSE SAND	7'-9" (2,362 m)	9'-0" (2,743 m)	8-#6X7'-6" (2,286 m)	#3X73' (22,250 m)	8-#6X8'-6" (2,591 m)	#3X85' (25,908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1,524 m)	5'-0" (1,524 m)	NONE	NONE	NONE	NONE

NOTES

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



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0"	□
s ₁	3	3	7'-6"	□
v ₁	8	6	2'-9"	—
v ₂			0,838 m	

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET FROM C-MED'N FT.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0,991 m)	#6 x 5'-3" (1,600 m)
27" (685.8 mm) TO	3'-9" (1,143 m)	5'-9" (1,753 m)
36" (914.4 mm) TO	4'-6" (1,372 m)	6'-6" (1,981 m)
42" (1066.8 mm) TO	5'-0" (1,524 m)	7'-0" (2,134 m)
48" (1219.2 mm) TO	5'-6" (1,676 m)	7'-6" (2,286 m)
54" (1371.6 mm) TO	6'-0" (1,828 m)	8'-0" (2,438 m)
60" (1524.0 mm) TO	6'-6" (1,981 m)	8'-6" (2,591 m)
66" (1676.4 mm) TO	7'-0" (2,134 m)	9'-0" (2,743 m)
72" (1828.8 mm) TO	7'-6" (2,286 m)	9'-6" (2,896 m)

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PLOT DATE: 09/23/2014
 FILE NAME: LT-19 Light Pole Foundation, Offset, 48" to 47.5" M.H., 15" in. Bolt Circle.dwg

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 DDPFR LIC/INS NO. 184,002673 web: www.SpaanTech.com

DESIGNED - L.F.
 DRAWN - R.C.
 CHECKED - J.B.
 DATE - August, 2014

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET
 40' (12.192 m) TO 47 1/2' (14.478 m) M.H.
 15" (381 mm) BOLT CIRCLE
 SCALE: NONE SHEET NO. 19 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

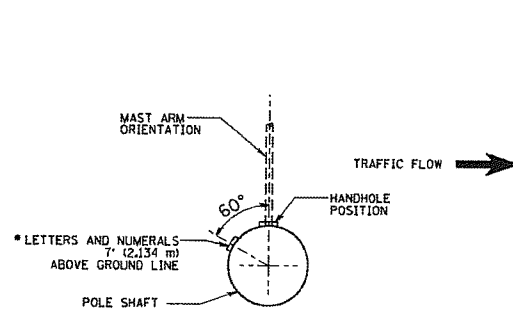
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HEX-BY&R	WILL	271	168

CONTRACT NO. 60XB4
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

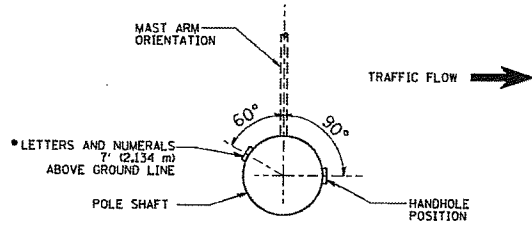
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ORIGINAL SURVEY NOTE BOOK NO.	

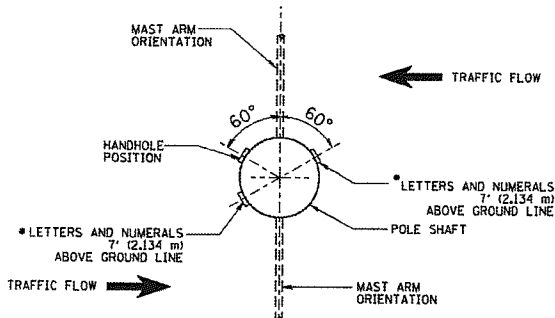
PLOT DATE: 9/3/2014
FILE NAME: LT-20 Aluminum Light Pole 47.8' Mounting Height.dgn



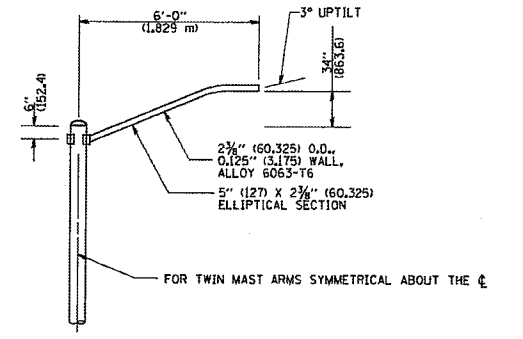
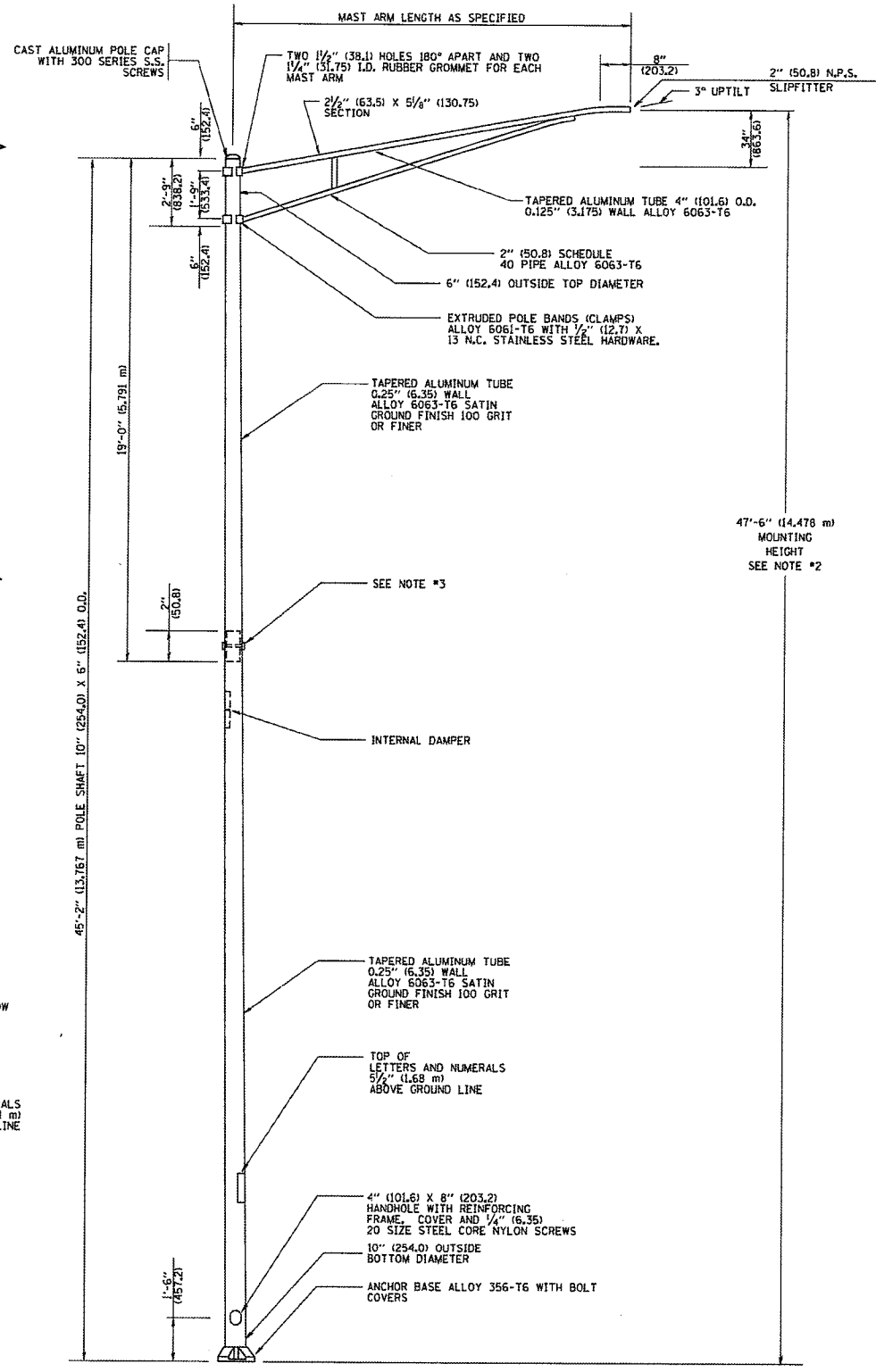
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

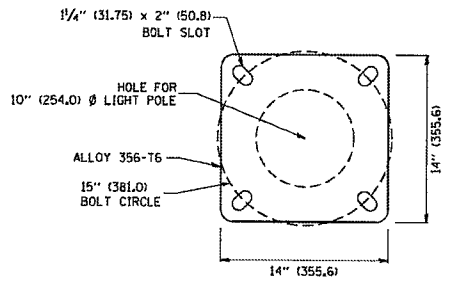


POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

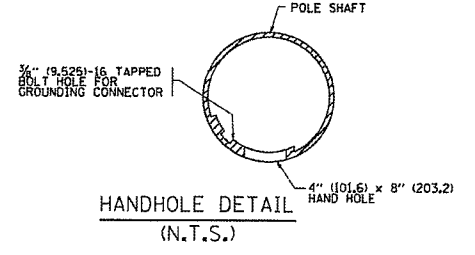


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BUNYD K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL (N.T.S.)

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DESIGNED	L.F.	REVISED	
DRAWN	R.C.	REVISED	
CHECKED	I.B.	REVISED	
DATE	August, 2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

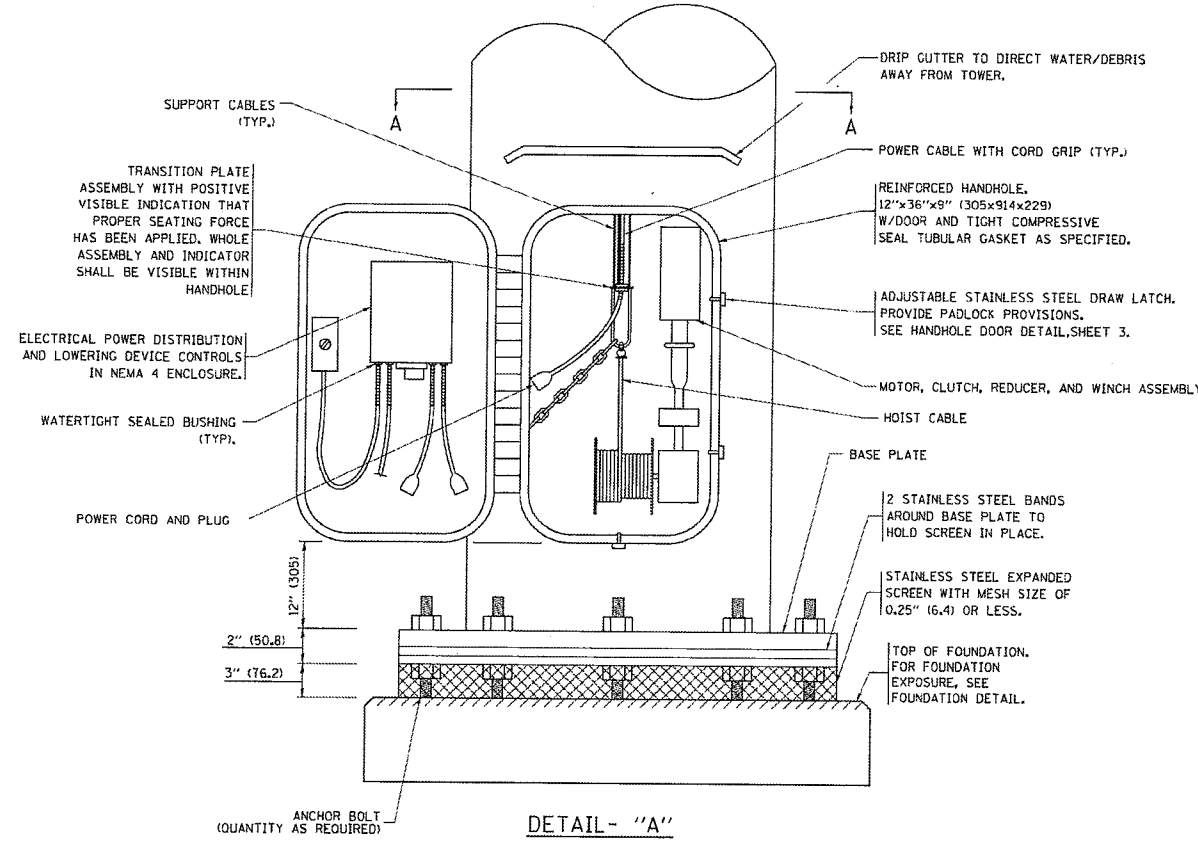
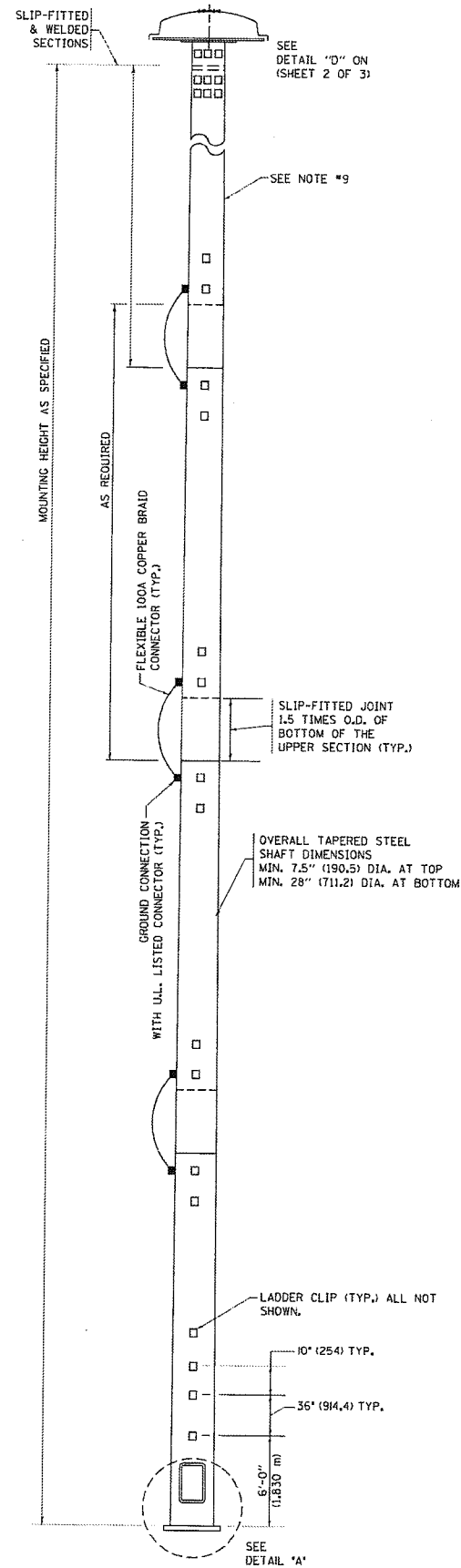
ALUMINUM LIGHT POLE	
47'-6" (14.478 m) MOUNTING HEIGHT	
SCALE: NONE	SHEET NO. 20 OF 31 SHEETS
STA. XXX+XX	TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	169
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

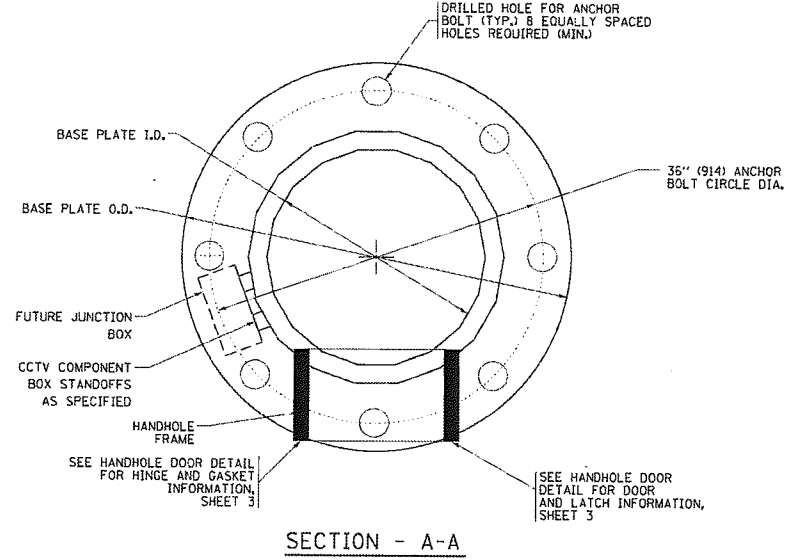
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NOTE BOOK	
AREAS CHECKED	
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DATE	
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SURVEYED	
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NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE 9/23/2014
 FILE NAME LT-21 High Mast Light Tower, 120 Ft. to 140 Ft. For Reference Only.dwg



DETAIL - "A"
 3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.



SECTION - A-A

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE DESIGN SHALL BE BASED UPON AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED AND A TOTAL COMBINED LUMINAIRE WEIGHT OF 720 LBS. (326 kg) AND HAVING A TOTAL PROJECTED AREA OF 24 SQ. FT. (7.3 sq. m).
- ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 223 (ASTM A 572 GR50)
- THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
- THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 1.8 m (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
- A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123) AND THEN PAINTED AS SPECIFIED. THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE FINISH COAT SHALL BE ANSI 70, SKY GREY COLOR SAMPLE TO BE SUBMITTED FOR APPROVAL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
- THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
- PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
- COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

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DRAWN	R.C.	REVISED	-
CHECKED	I.B.	REVISED	-
DATE	August, 2014	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

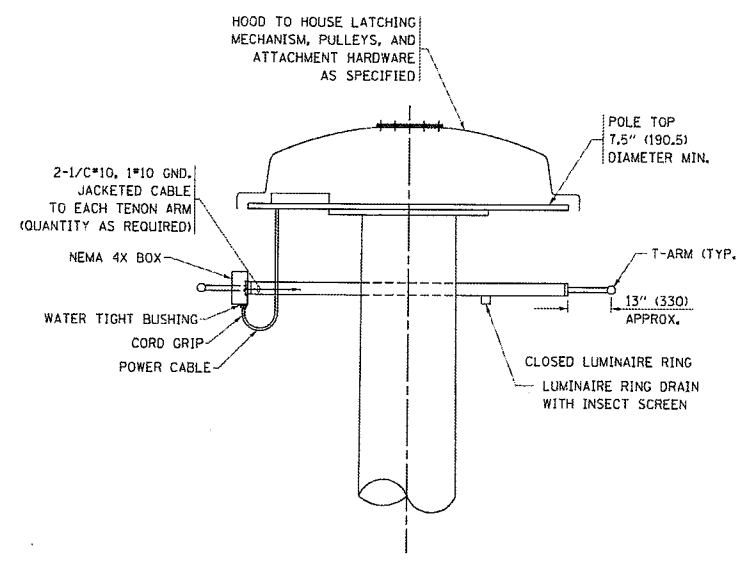
HIGH MAST LIGHT TOWER
 120 FT. 140 FT. (36 m TO 43 m)
 SCALE: NONE
 SHEET NO. 21 OF 31 SHEETS
 STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&R-BY&R	WILL	271	170
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

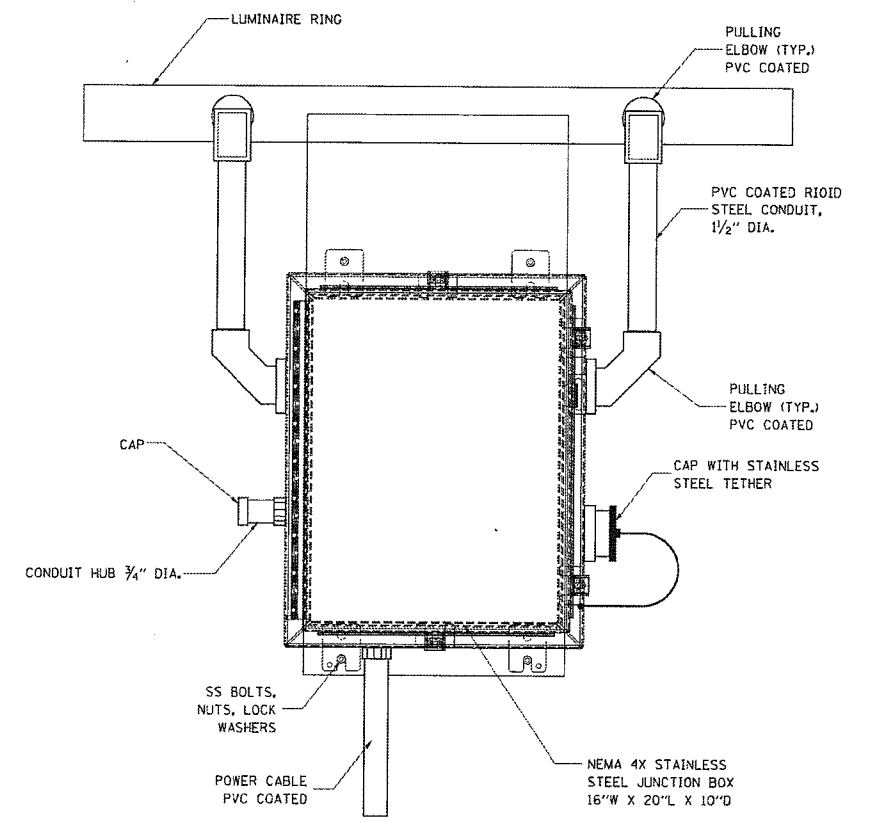
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AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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APPROVED	
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DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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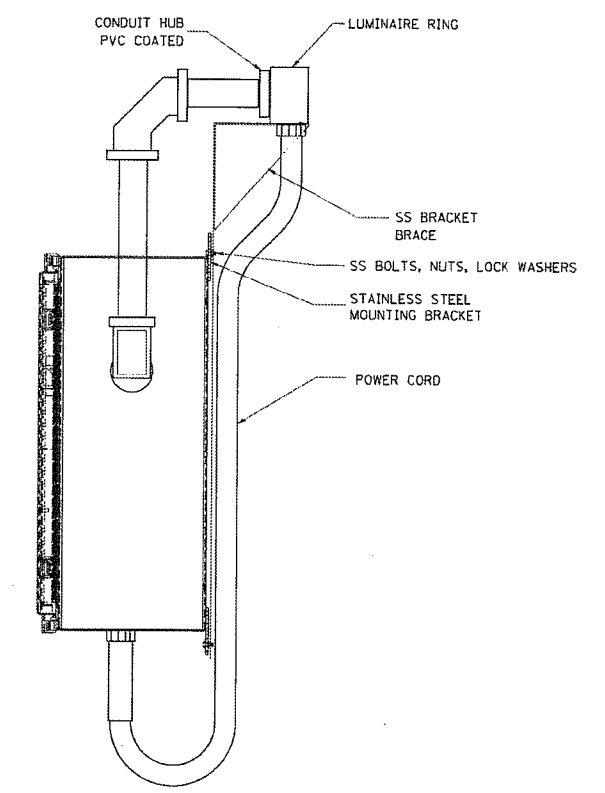
PLOT DATE: 8/23/2014
 FILE NAME: LT-22 High Mast Light Tower, 120 Ft. to 140 Ft. (for Reference Only).dgn



DETAIL - "D"

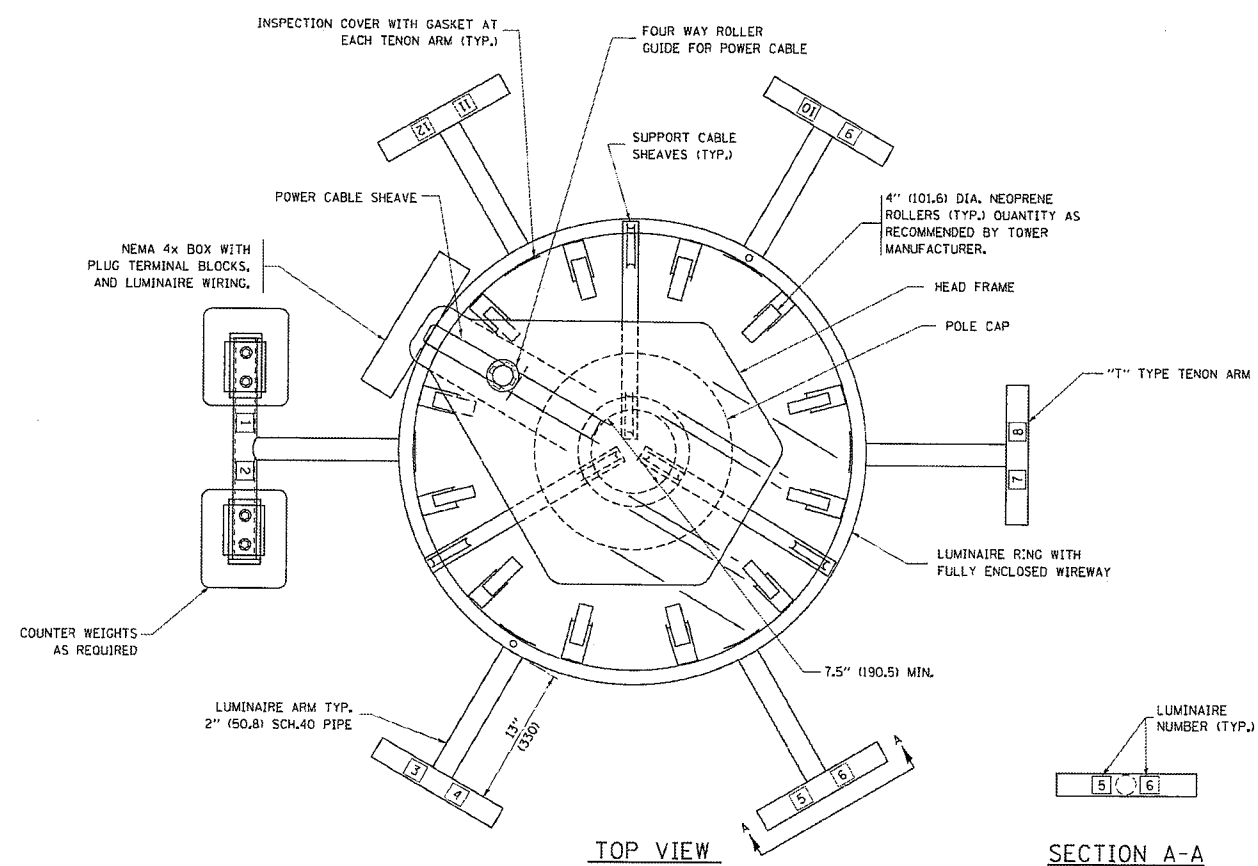


FRONT VIEW
N.T.S.



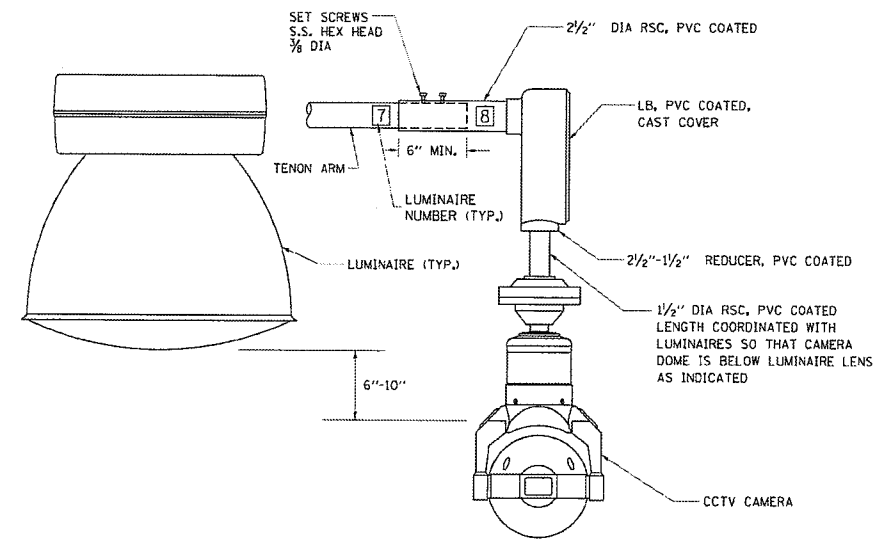
SIDE VIEW
N.T.S.

LUMINAIRE RING TERMINAL BOX



TOP VIEW

SECTION A-A



CCTV CAMERA MOUNTING DETAIL

- NOTES:**
- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609 mm) LONGER THAN THEIR RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
 - SPlicing WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
 - ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
 - ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-1-81765/1.

LT-22

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DRAWN	- R.C.	REVISED	-
CHECKED	- I.B.	REVISED	-
DATE	- August, 2014	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
 120 FT. 140 FT. (36 m TO 43 m)

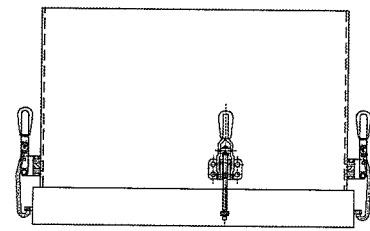
SCALE: NONE SHEET NO. 22 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
55	06-1-HK-BY&R	WILL	271	171
CONTRACT NO. 60884				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

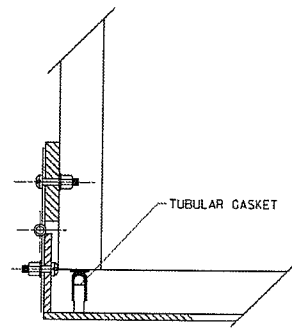
DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
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AREAS CHECKED	

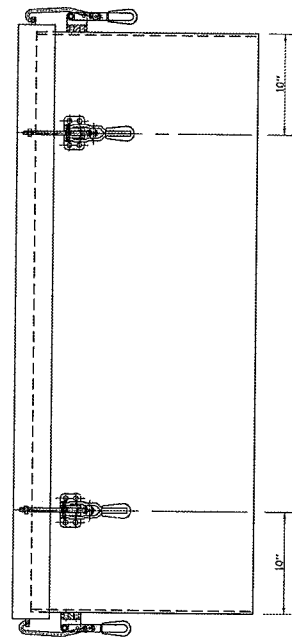
PLOT DATE: 9/2/2014
 FILE NAME: LT-23 High Mast Light Tower, 128 Ft. to 140 Ft. (For Reference Only).dgn



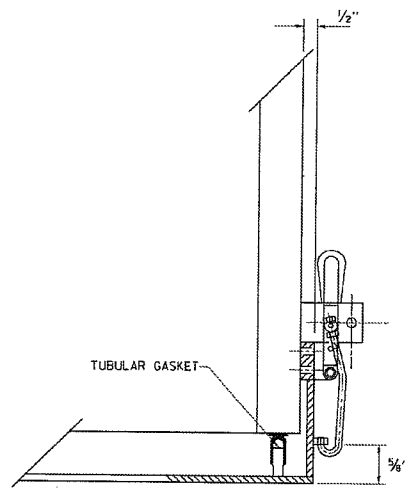
TOP VIEW



HINGE DETAIL

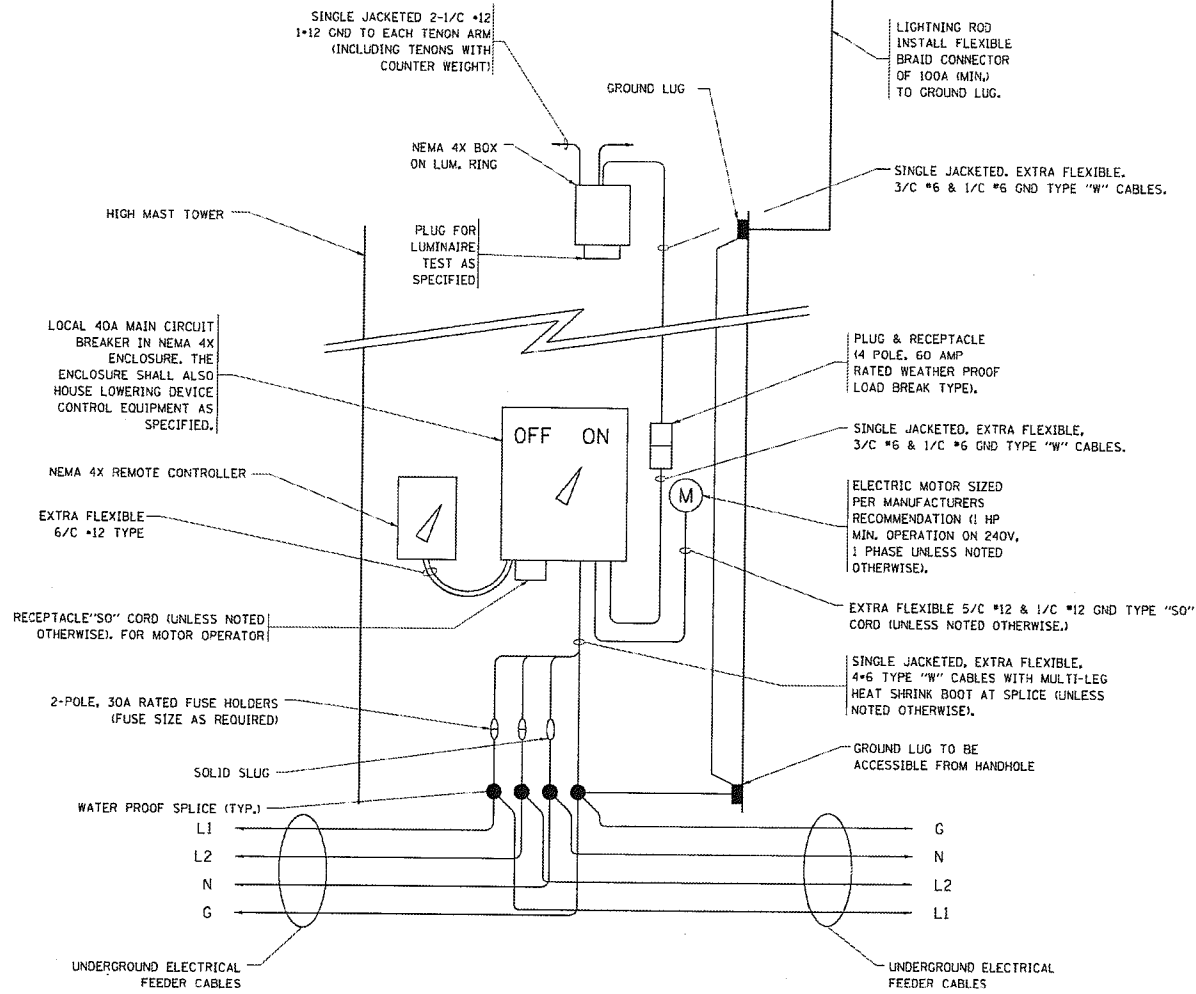


SIDE VIEW

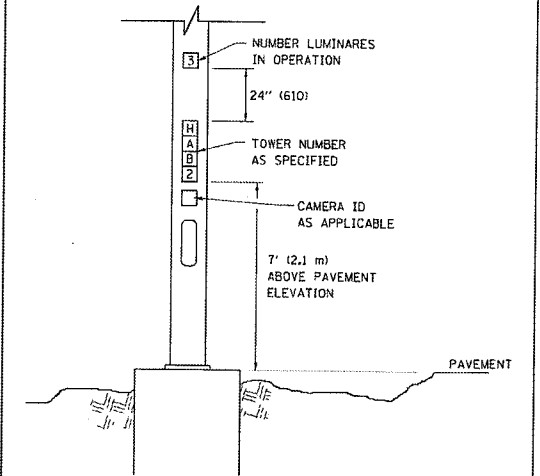


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

LT-23

CHRISTIAN-ROGE & ASSOCIATES, INC.
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DRAWN	R.C.	REVISED	
CHECKED	I.B.	REVISED	
DATE	August, 2014	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

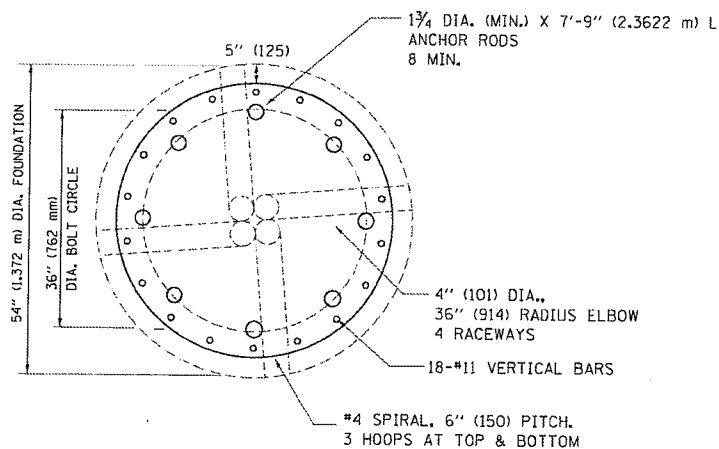
HIGH MAST LIGHT TOWER
 120 FT. 140 FT. (36 m TO 43 m)
 SCALE: NONE SHEET NO. 23 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&K-BY&R	WILL	271	172
CONTRACT NO. 60X84				

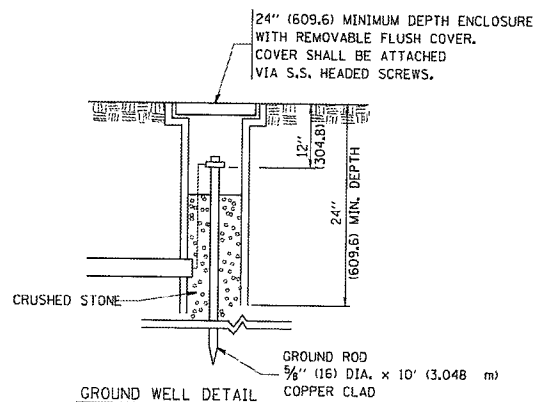
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DATE	BY	NO.

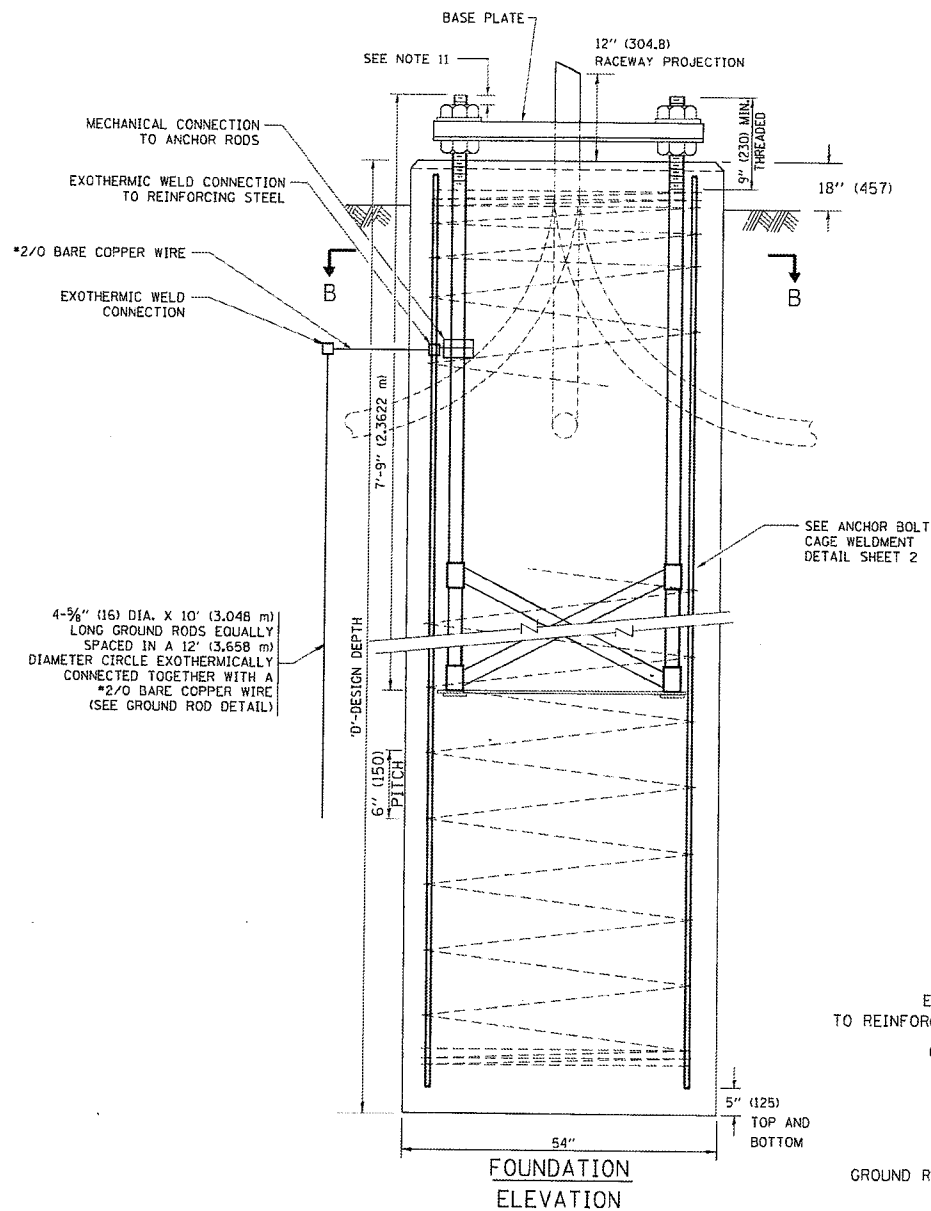
SOIL CONSISTENCY		SHAFT LENGTH (D) TABLE			
		AVERAGE STRENGTH	LIGHT TOWER MOUNTING HEIGHT		
		Qu In tsf (Qu In kPa)	120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
		0.5 TO 1 (50 TO 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	MEDIUM				
	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
VERY STIFF		2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
		>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
VERY LOOSE		N In BLOWS/FT. (N In BLOWS/0.3m)			
		<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
LOOSE		5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
		10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
GRANULAR	MEDIUM				
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
VERY DENSE		>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)



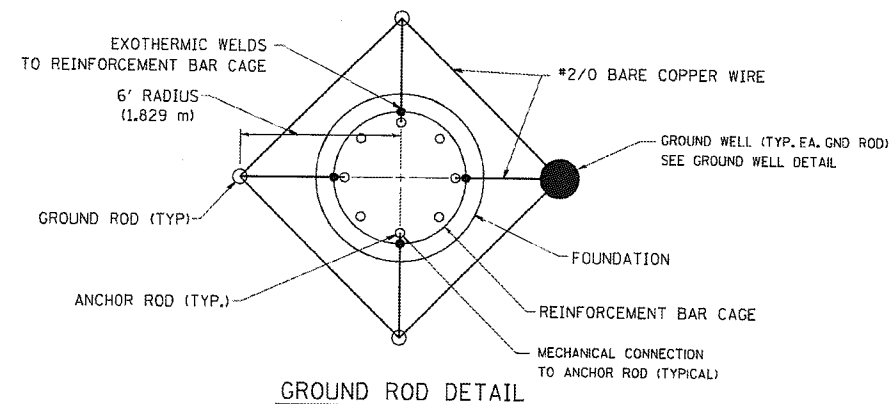
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER, EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

PLOT DATE - 9/2/2014
FILE NAME - LT-24 High Mast Light Tower, 120 Ft. to 140 Ft. Foundation Detail.dwg

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CHECKED - I.B.	REVISED -
DATE - August, 2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
120 FT. 140 FT. FOUNDATION DETAIL

SCALE: NONE SHEET NO. 24 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HEX-BY&R	WILL	271	173
				CONTRACT NO. 60XB4

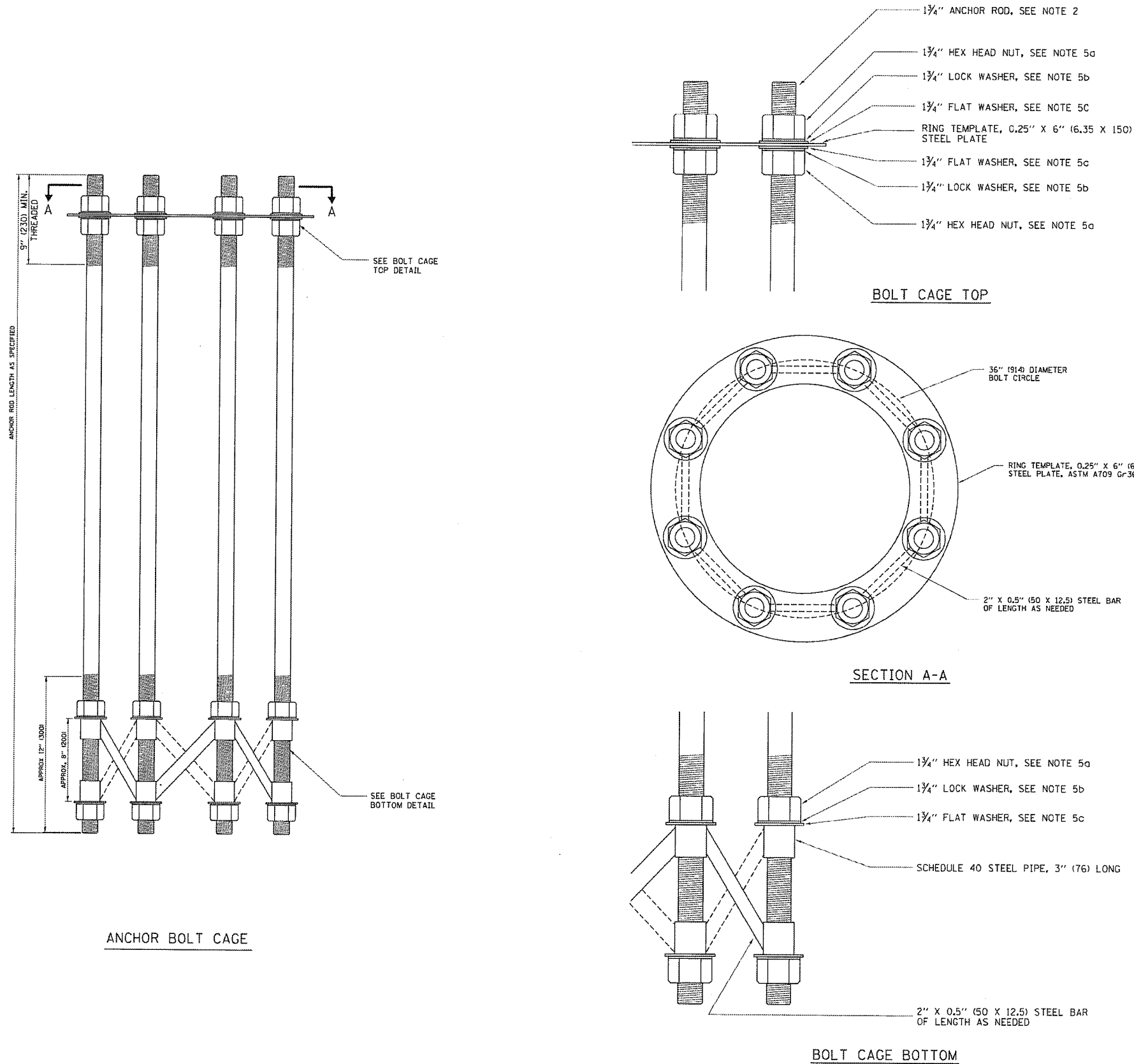
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

LT-24

DATE	
BY	
FINAL SURVEY	
SURVEY	
NOTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY	
NOTED	
TEMPLATE	
AREAS CHECKED	
NO.	

PLOT DATE 9/3/2014
FILE NAME 1LT-25 High Mast Light Tower, 120 Ft. to 148 Ft. Foundation Detail.dgn



NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - 1 3/4" HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D, DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - 1 3/4" HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.758 - 1.778
O.D. 2.596 MAX.
WIDTH 0.383 MIN.
THICKNESS 0.469 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - 1 3/4" FLAT WASHERS
AASHTO M293
O.D. 3.25
I.D. 1.875
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
- THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
- ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
- ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

LT-25

CHRISTIAN-ROGE & ASSOCIATES, INC.
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Chicago, IL 60606
IDPR LICENSE NO. 184-002673
phone: 312.277.8800
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web: www.spaanTech.com

DESIGNED	- L.F.	REVISED	-
DRAWN	- R.C.	REVISED	-
CHECKED	- J.B.	REVISED	-
DATE	- August, 2014	REVISED	-

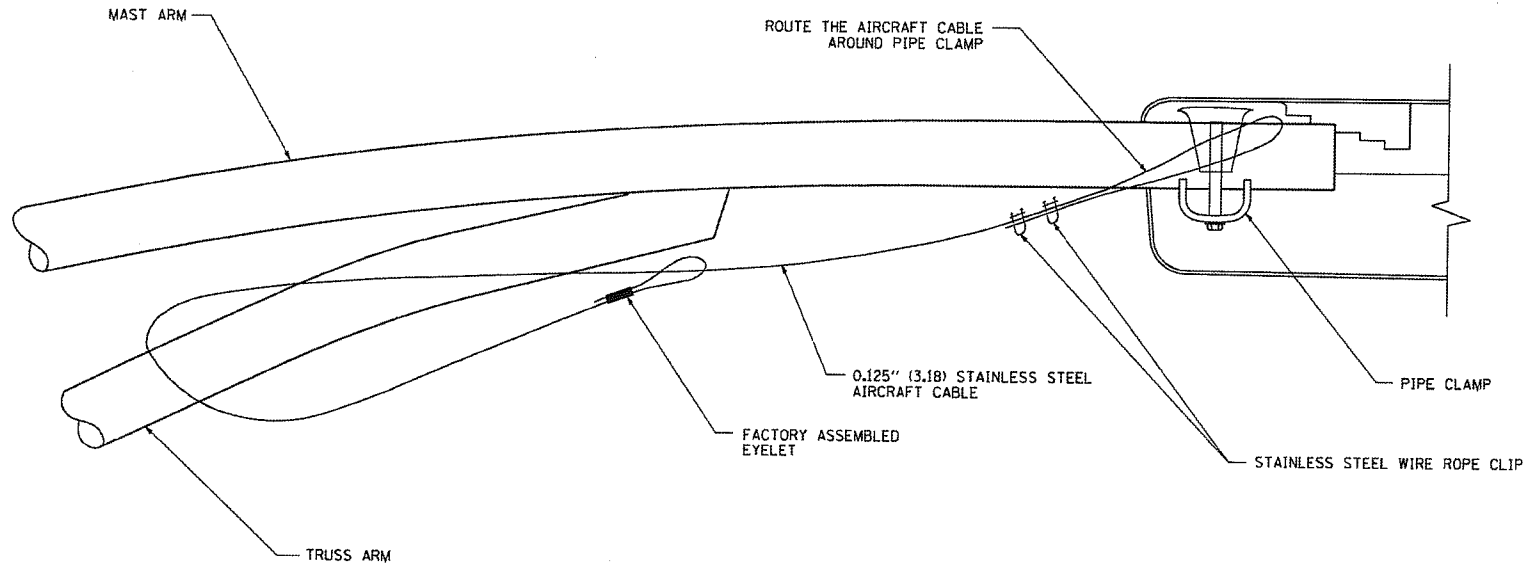
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
120 FT. 140 FT. FOUNDATION DETAIL
SCALE: NONE
SHEET NO. 25 OF 31 SHEETS
STA. XXX+XX TO STA. XXX+XX

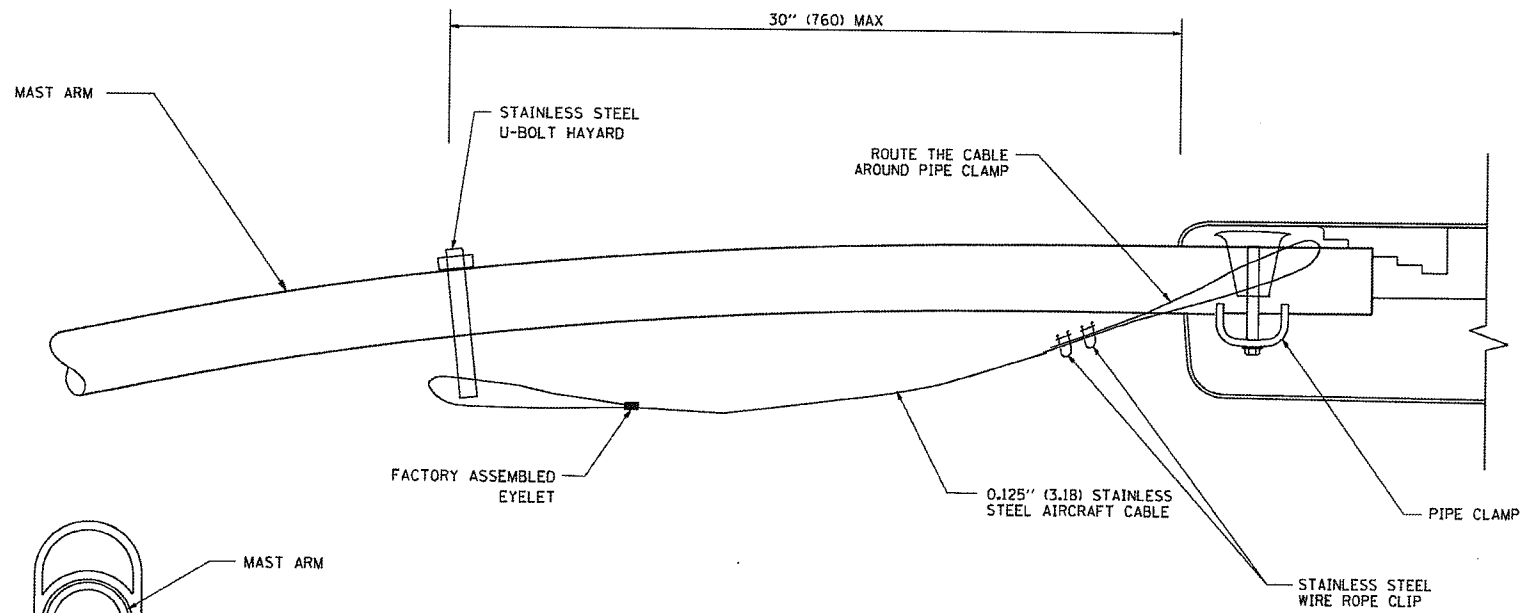
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	174
FED. ROAD DIST. NO. 1				CONTRACT NO. 60X84
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

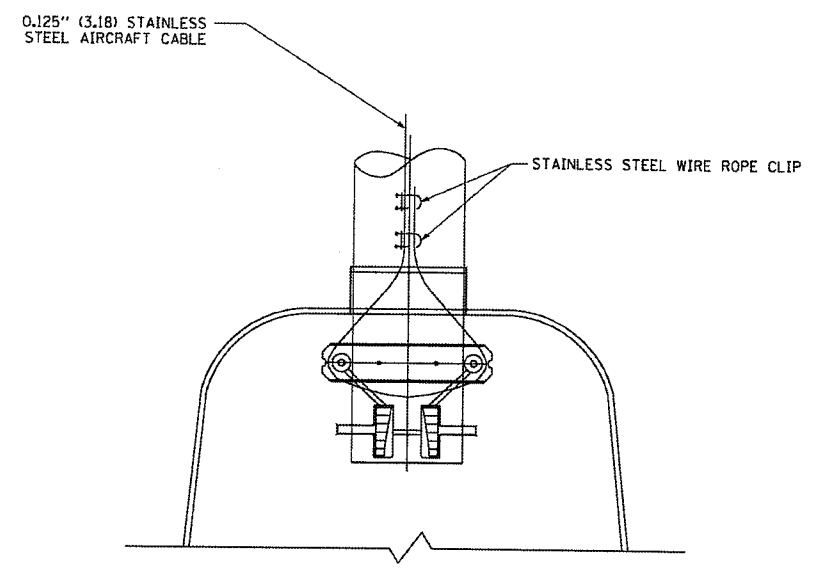
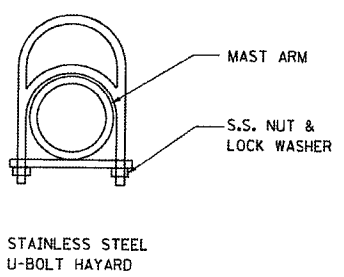
DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



SIDE VIEW (TRUSS ARM)
N.T.S.



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



BOTTOM VIEW
N.T.S.

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

PLT DATE: 9/23/2014
FILE NAME: LT-26 Luminaire Safety Cable Assembly.dwg

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DRAWN	- R.C.	REVISED	-
CHECKED	- I.B.	REVISED	-
DATE	- August, 2014	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY

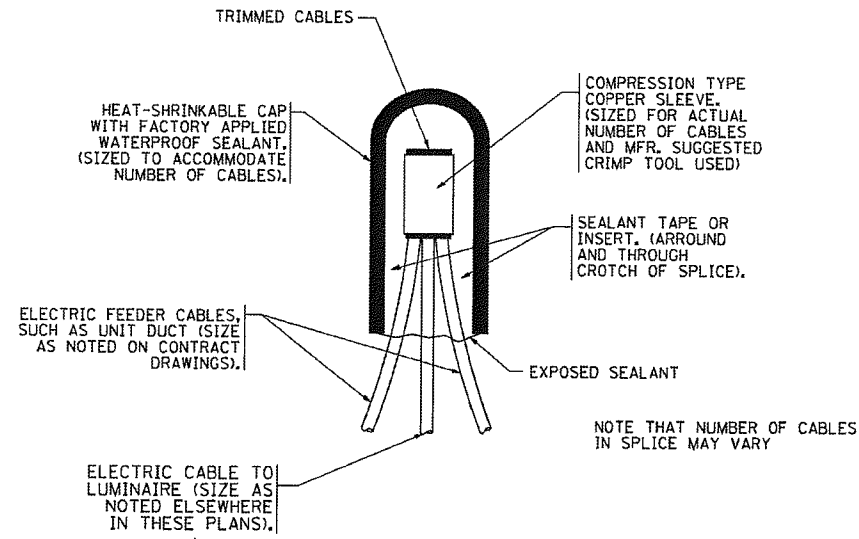
SCALE: NONE SHEET NO. 26 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HEK-BY&R	WILL	271	175
CONTRACT NO. 60X84				

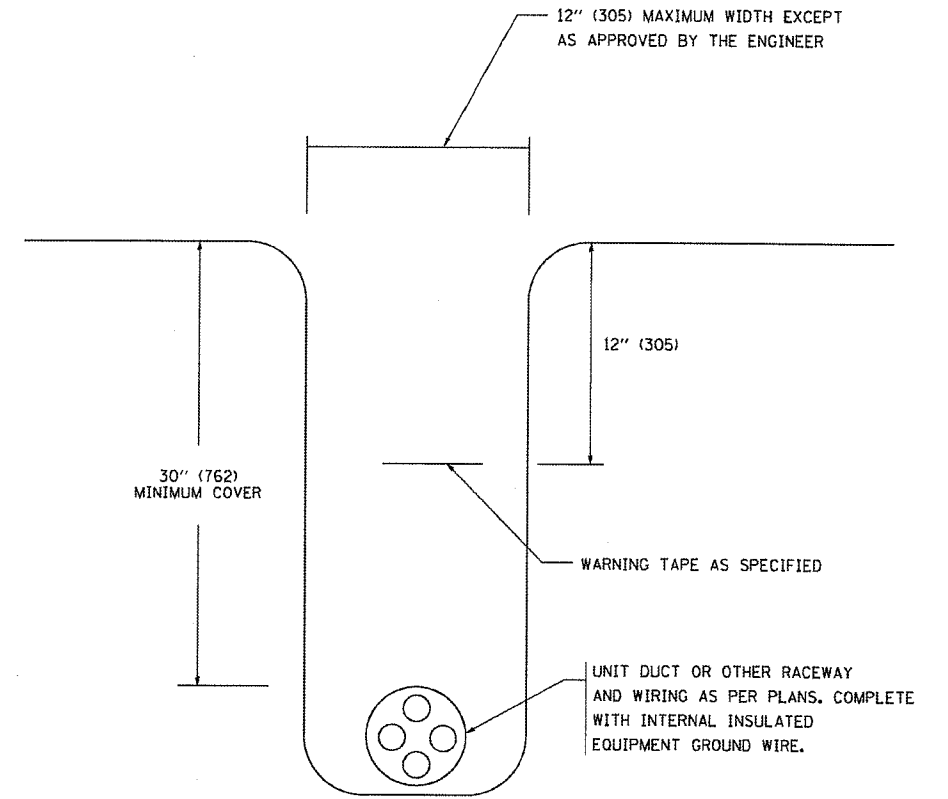
DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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AREAS CHECKED	

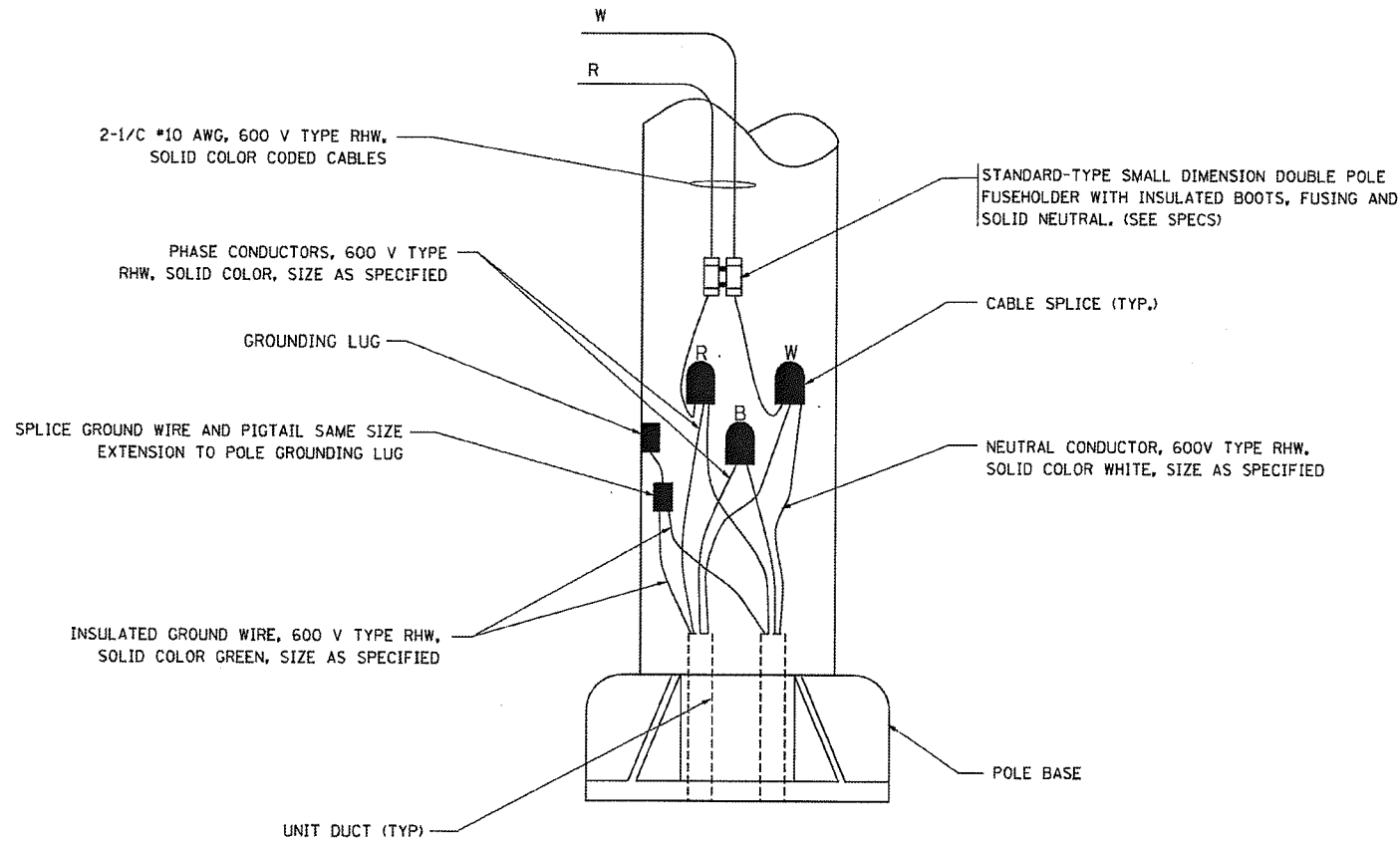
PLOT DATE = 9/23/2014
 FILE NAME = LT-27 Misc. Electrical Details Sheet A.dgn



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

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CHECKED	- I.B.	REVISED	-
DATE	- August, 2014	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

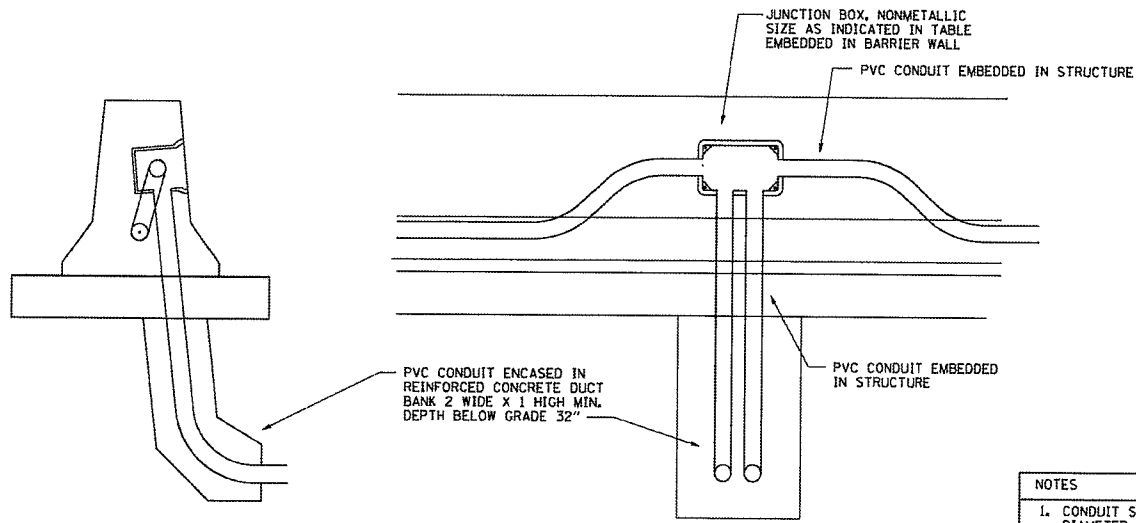
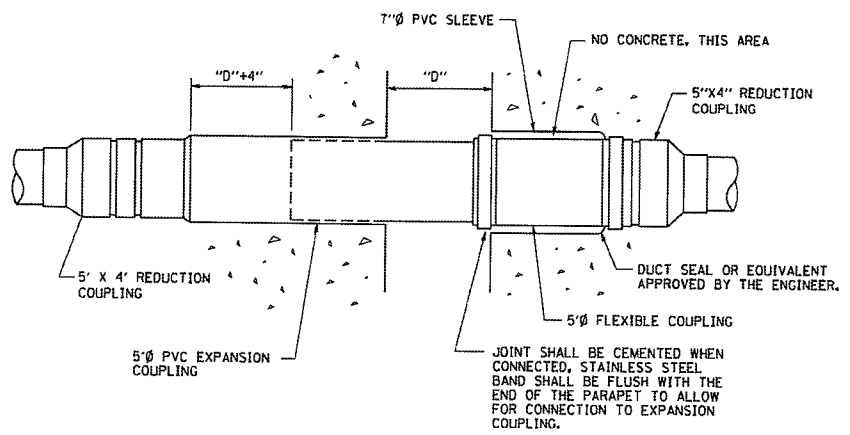
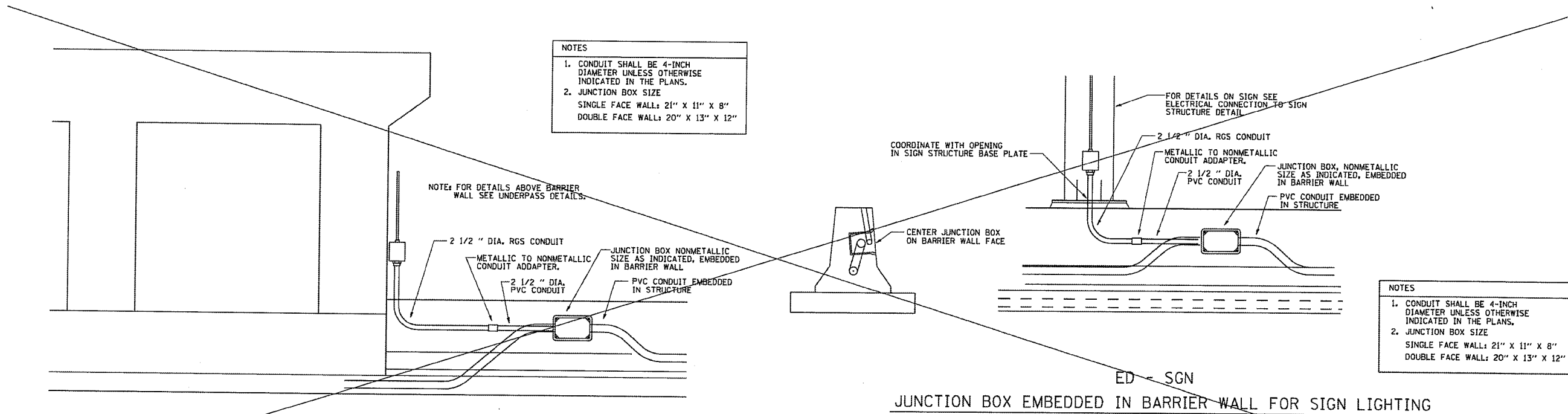
MISCELLANEOUS ELECTRICAL DETAILS
SHEET A
 SCALE: NONE SHEET NO. 27 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&R-BY&R	WILL	271	176
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	

DATE	
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REVISIONS	
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BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

PLT DATE 09/23/2014
 FILE NAME LT-28 Misc. Electrical Details, Sheet B.dgn



NOTES

- CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
- JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

NOTES

- CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
- JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

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DRAWN	- R.C.	REVISED	-
CHECKED	- J.B.	REVISED	-
DATE	- August, 2014	REVISED	-

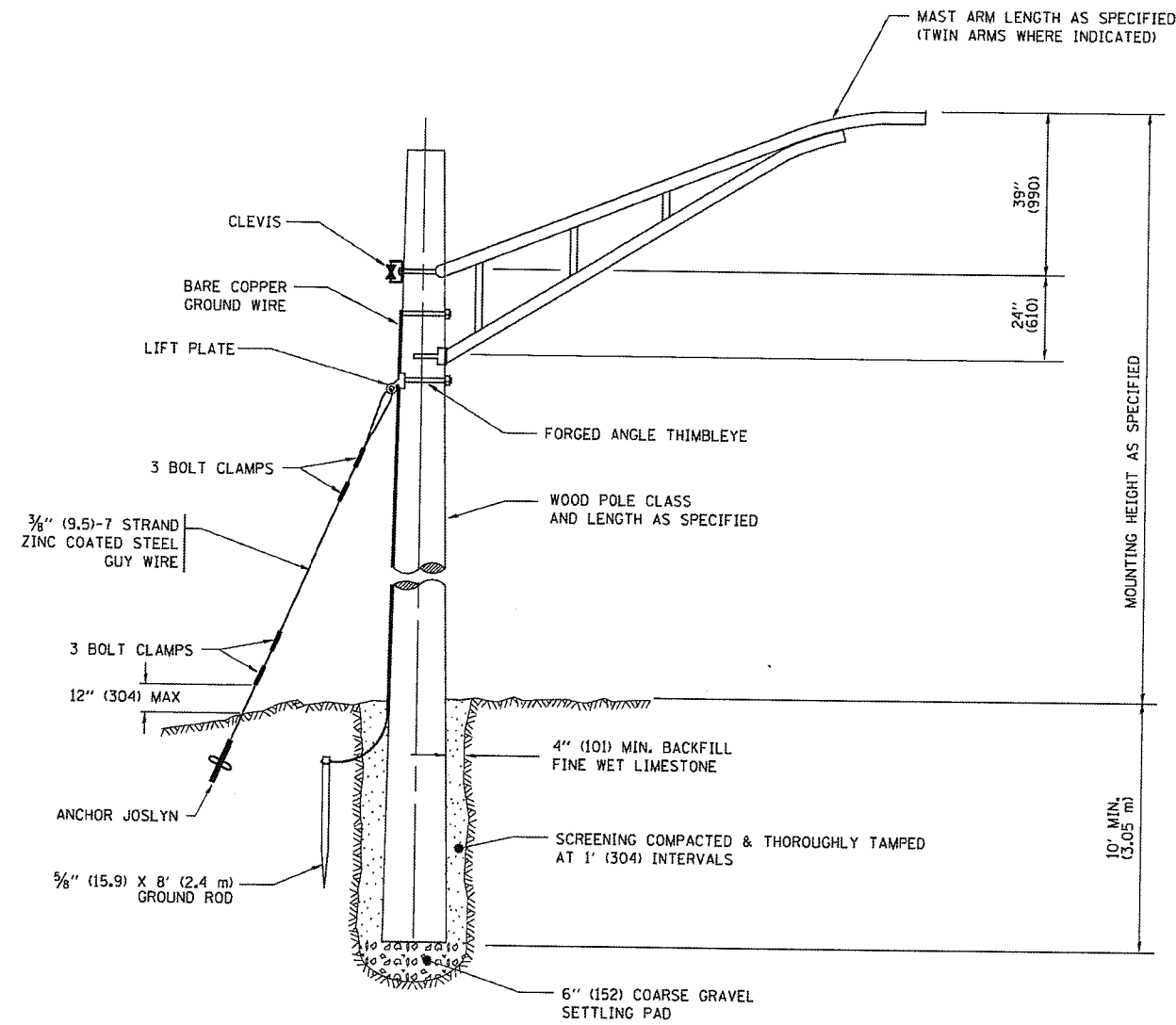
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS
 SHEET B
 SCALE: NONE SHEET NO. 28 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

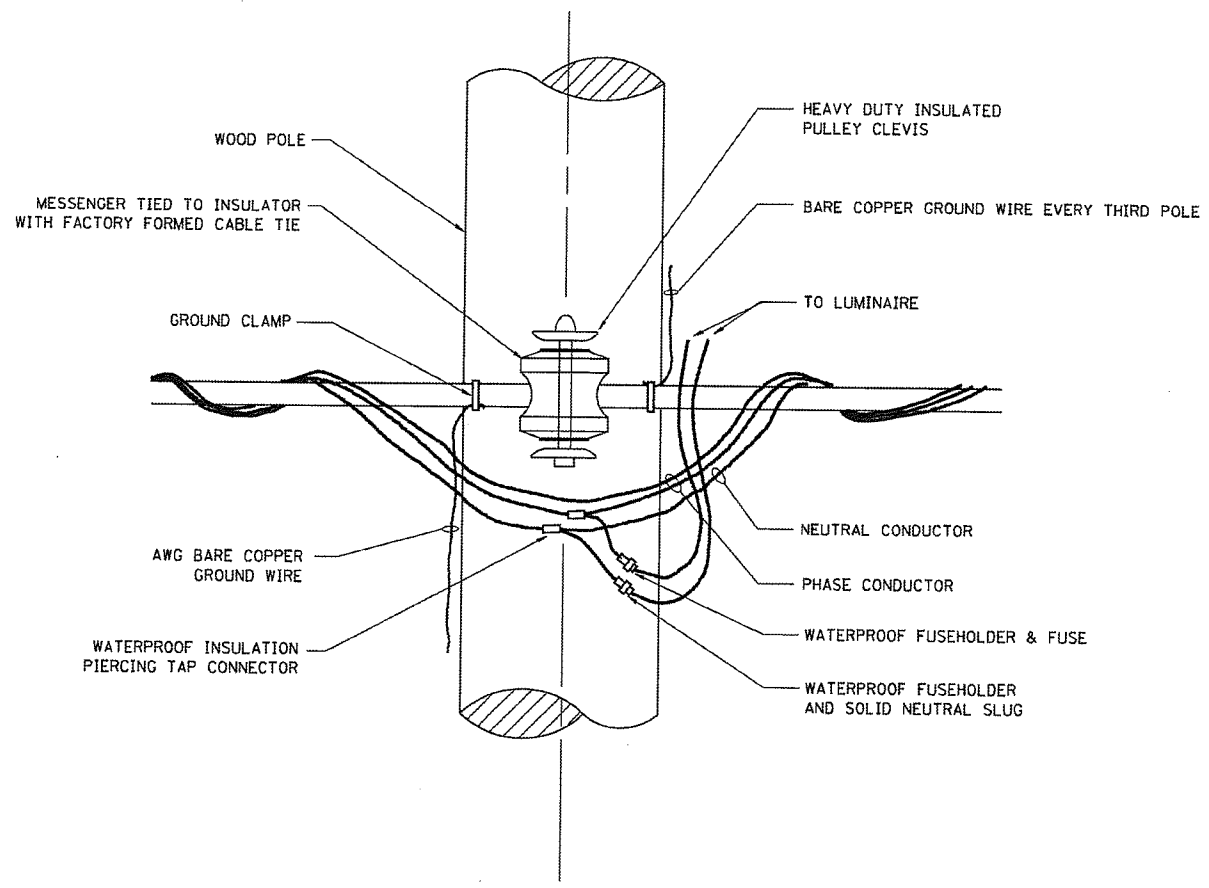
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HK-BYAR	WILL	271	177
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60X84	

DATE	
BY	
SURVEYED	
PRINTED	
FILED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PRINTED	
FILED	
NOTE BOOK	
AREAS CHECKED	
NO.	



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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

PLOT DATE - 9/3/2014
FILE NAME - LT-29 Temporary Light Pole Detail.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.
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DRAWN	R.C.	REVISED	-
CHECKED	L.B.	REVISED	-
DATE	August, 2014	REVISED	-

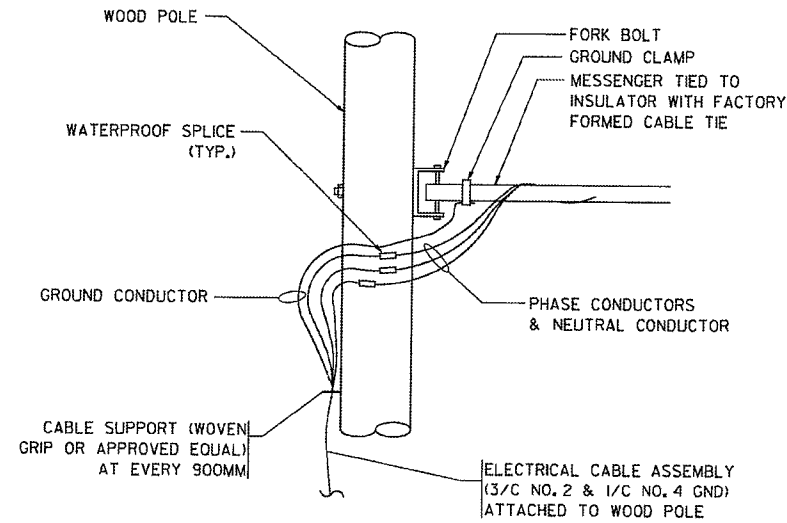
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE DETAILS
SCALE: NONE
SHEET NO. 29 OF 31 SHEETS
STA. XXX+XX TO STA. XXX+XX

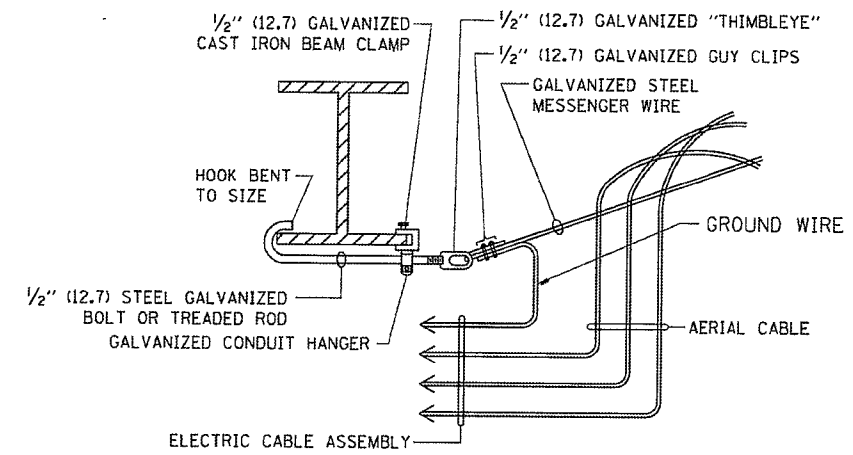
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&K-BY&R	WILL	271	178
CONTRACT NO. 60X84				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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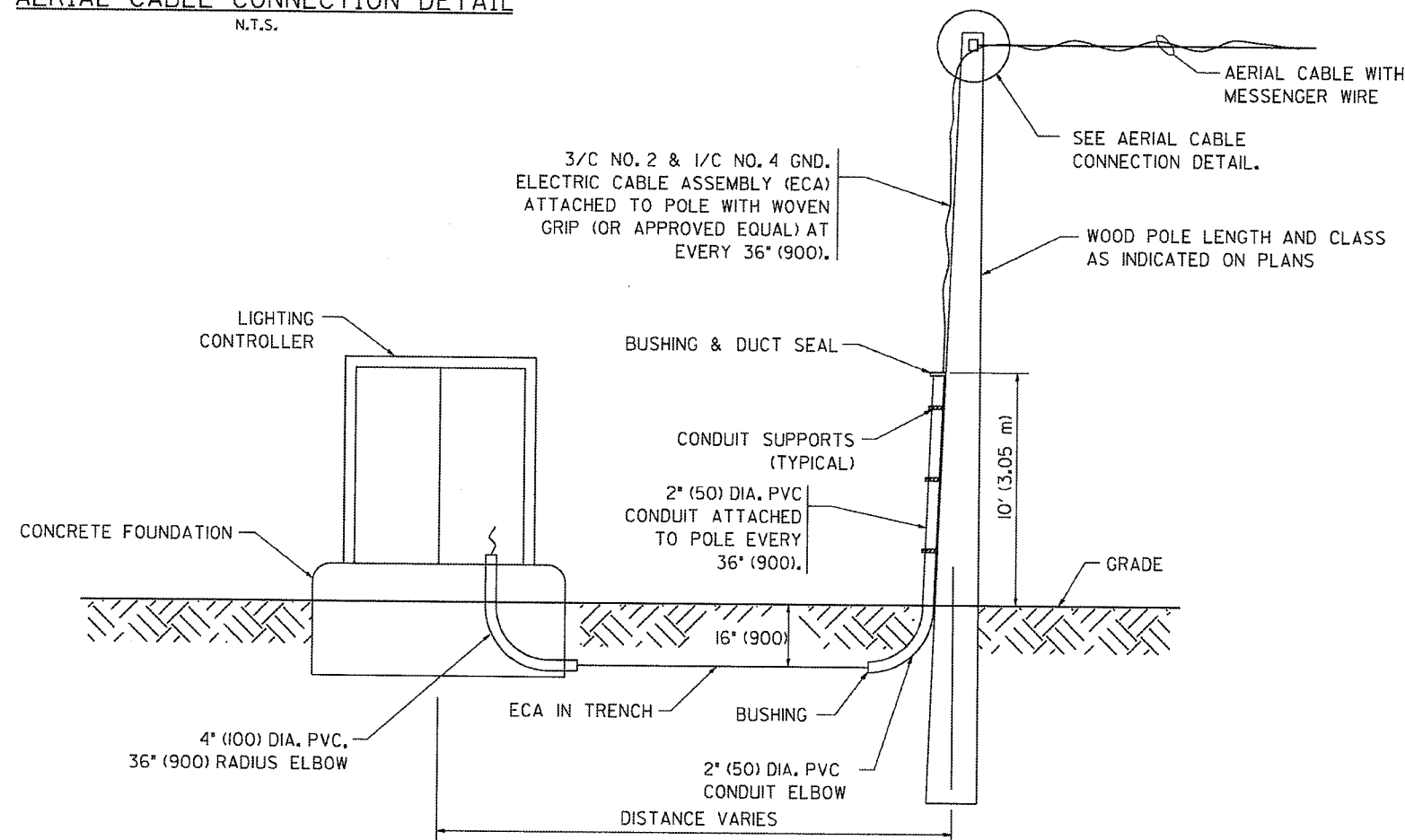
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



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

PLOT DATE 09/23/2014
FILE NAME LT-30 Temporary Aerial Cable Installation.dgn

CHRISTIAN-ROGE & ASSOCIATES, INC.
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DESIGNED	L.F.	REVISED	
DRAWN	R.C.	REVISED	
CHECKED	L.B.	REVISED	
DATE	August, 2014	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

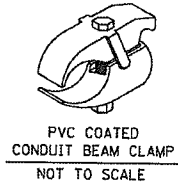
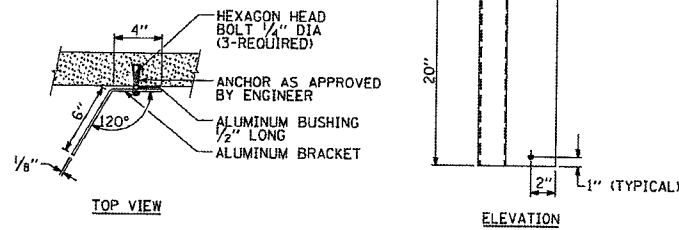
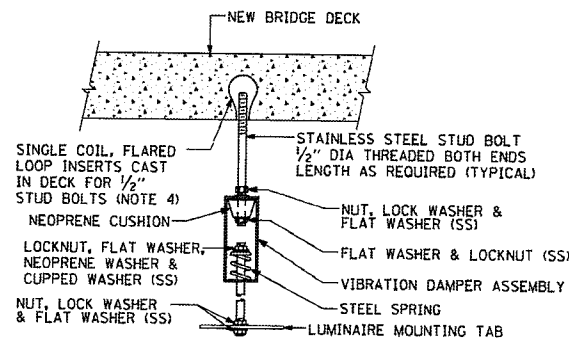
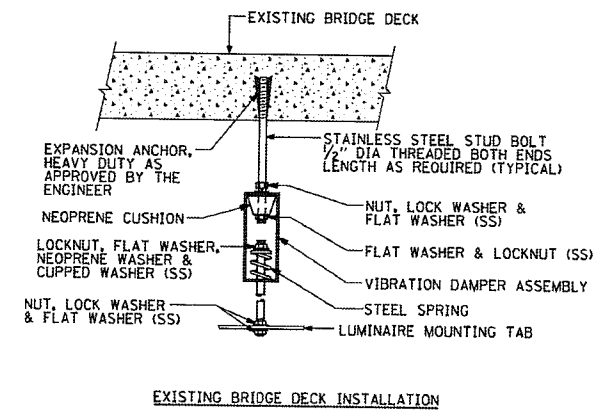
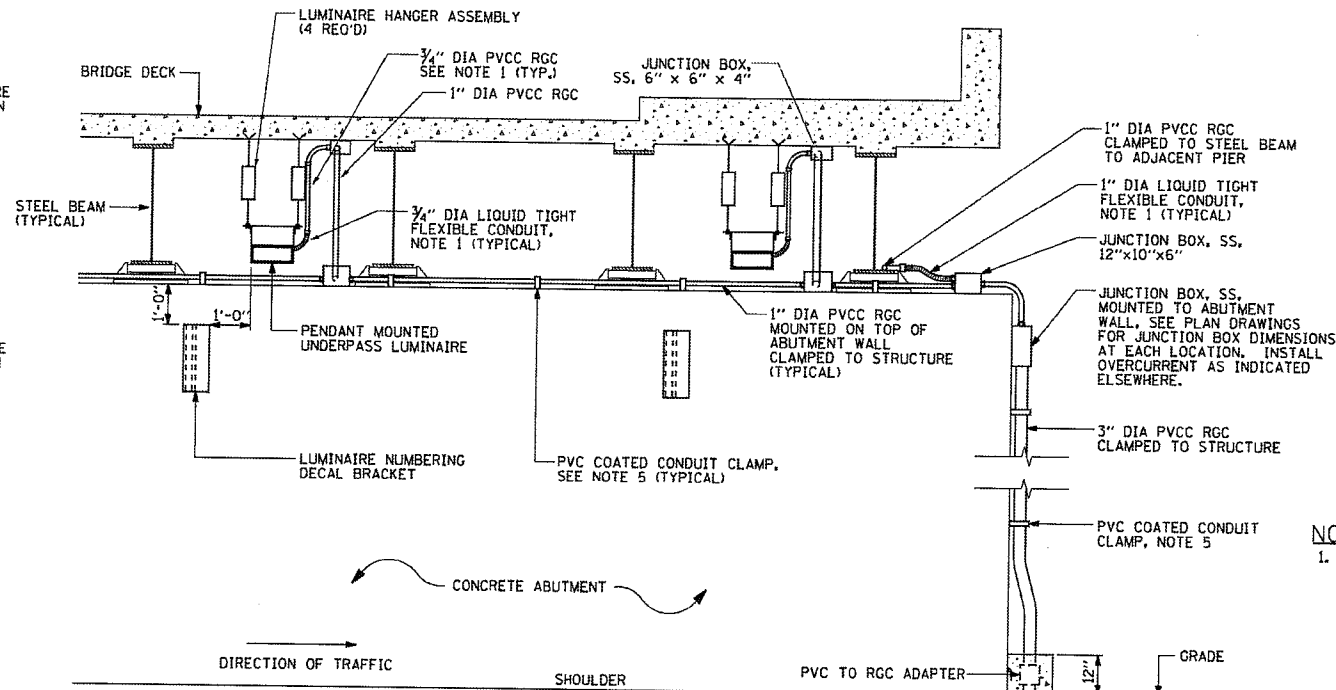
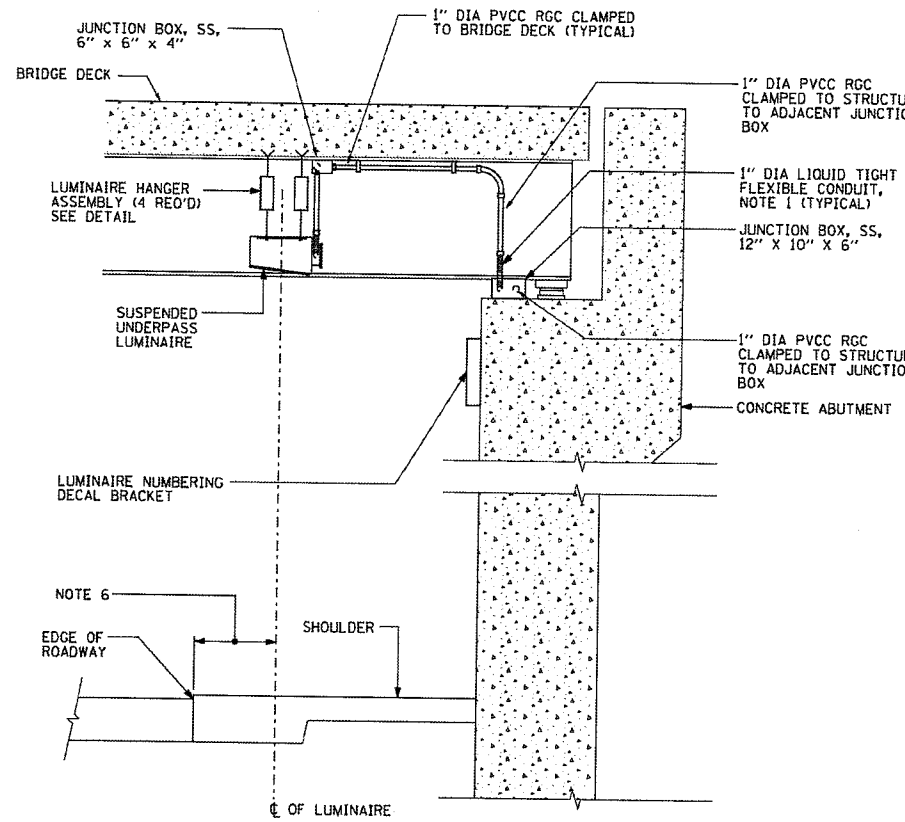
SCALE: NONE SHEET NO. 30 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-H&K-BY&R	WILL	271	179
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60XB4	

DATE	
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DATE	
BY	
REVISION	
NO.	

PLT DATE 9/3/2014
 FILE NAME LT-31 Suspended Mount Underpass Luminaire Installation Details.dwg



NOTES:

1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA. GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 1/2" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LUMINAIRES.
3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR, SEE DETAIL.
4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM.
6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

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DRAWN	R.C.	REVISED	
CHECKED	J.B.	REVISED	
DATE	August, 2014	REVISED	

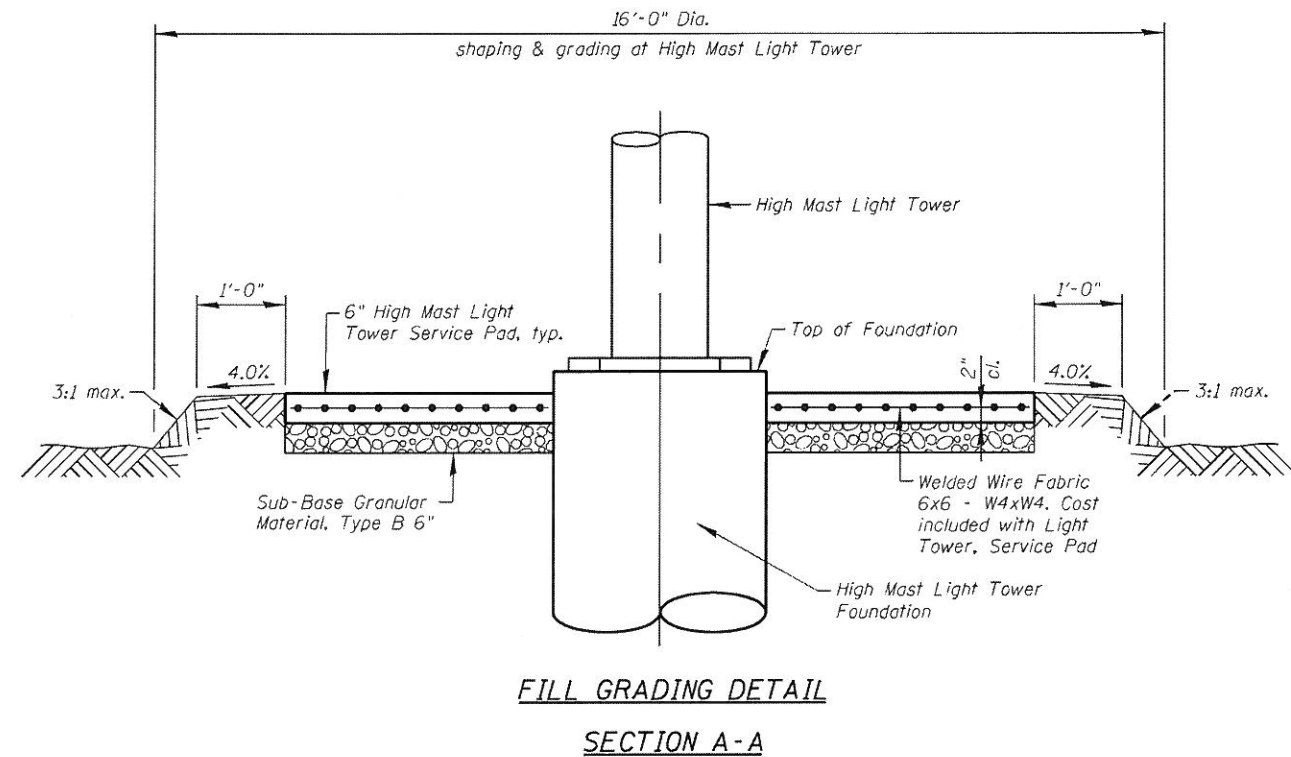
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUSPENDED MOUNT UNDERPASS
 LUMINAIRE INSTALLATION DETAILS

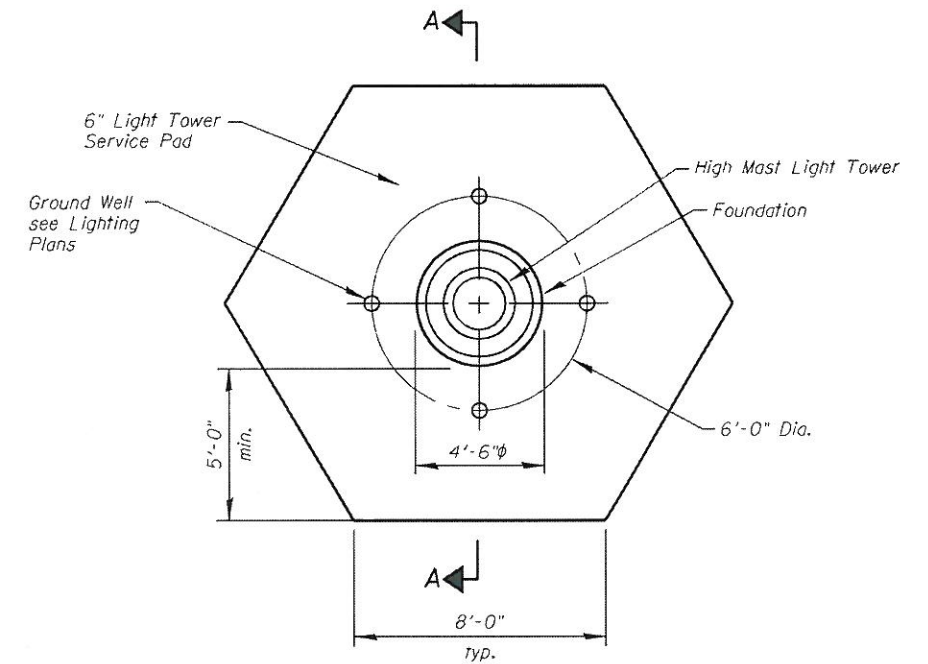
SCALE: NONE SHEET NO. 31 OF 31 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1+HBK+BYR	WILL	271	180

CONTRACT NO. 60X84
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



FILL GRADING DETAIL
SECTION A-A



LIGHT TOWER, SERVICE PAD
PLAN

HIGH MAST LIGHT TOWER LOCATIONS

Light No.	Location		Pad Type	*Pad Elevation
	Station	From U.S. Rte. 6 to High Mast Light Tower		
8-REF 1	206+93.00	169' Lt.	To be installed in Contract 62400	-
8-RCD 1	207+31.00	85' Rt.	Light Tower, Service Pad, Special	545.00
8-RCD 3	211+63.00	134' Rt.	Light Tower, Service Pad	536.50
8-RCD 5	214+40.00	109' Rt.	Light Tower, Service Pad	541.50

*Pad Elevations must be verified prior to Construction

Notes:
 For location of Light Tower Foundations, see Lighting Plans.
 For High Mast Light Tower Foundation Details, see Sht. LT-21 thru LT-25.
 The Light Tower & Light Tower Foundation shall be paid for separately.
 all remaining work including grading, fill, service pad (PPC Sidewalk)
 reinforcement shall be paid for at the Contract Unit Price per each for
 "Light Tower, Service Pad".
 For Light Tower hand hole orientation, see Lighting Plans.
 Reinforcement Bars designated (E) shall be epoxy coated.

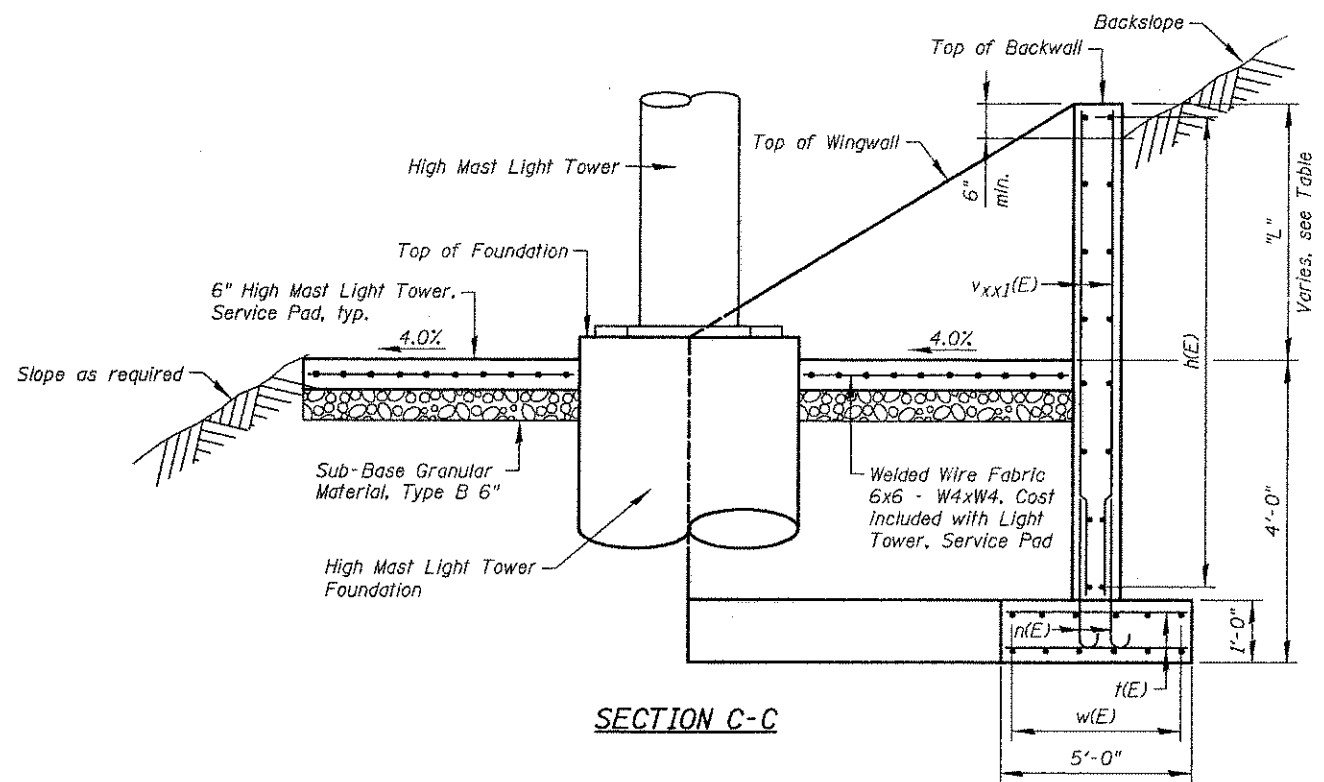


Bhadresh N. Shah
 BHADRESH N. SHAH 04.03.2014
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. No. 081-004476
 EXPIRES: 11-30-16

FILE NAME = I:\028-U.S. Rte. 6\Structural\CADD Sheets\Mast Foundation\0160X84--mast_foundation.dgn

	USER NAME = IDDT	DESIGNED - B.N.S./S.J.P.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT TOWER SERVICE PAD DETAILS U.S. RTE. 6 OVER F.A.I. RTE. 55	F.A.I. RTE. 55	SECTION 86-1-HBK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 180A
	PLOT SCALE = 100.0000' / IN.	CHECKED - S.J.P./B.N.S.	REVISED -			CONTRACT NO. 60X84				
	PLOT DATE = 11/3/2014	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT				

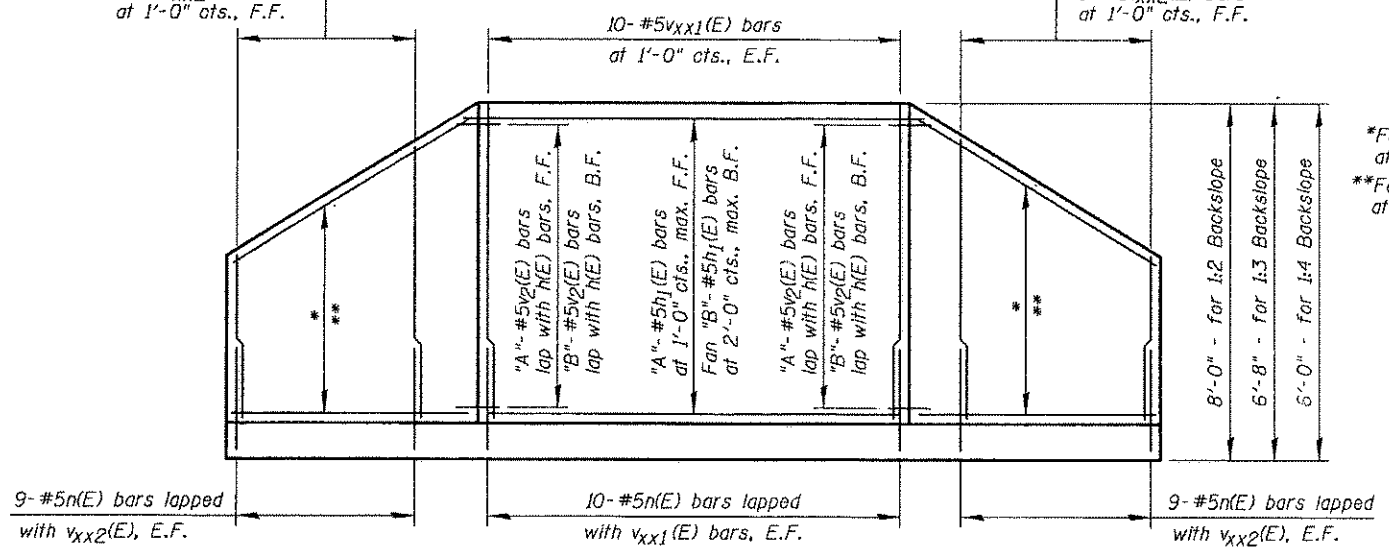
FILE NAME = I:\1828_US_Rte_6_Structural\CADD Sheets\Mast Foundation\1828-4-mast wall details.dgn



SECTION C-C

9-#5 bars cut from 9-#5vxx2(E) bars at 1'-0" cts., F.F.
 9-#5 bars cut from 9-#5vxx2(E) bars at 1'-0" cts., F.F.

9-#5 bars cut from 9-#5vxx2(E) bars at 1'-0" cts., F.F.
 9-#5 bars cut from 9-#5vxx2(E) bars at 1'-0" cts., F.F.



INSIDE ELEVATION OF WINGWALLS & BACKWALL

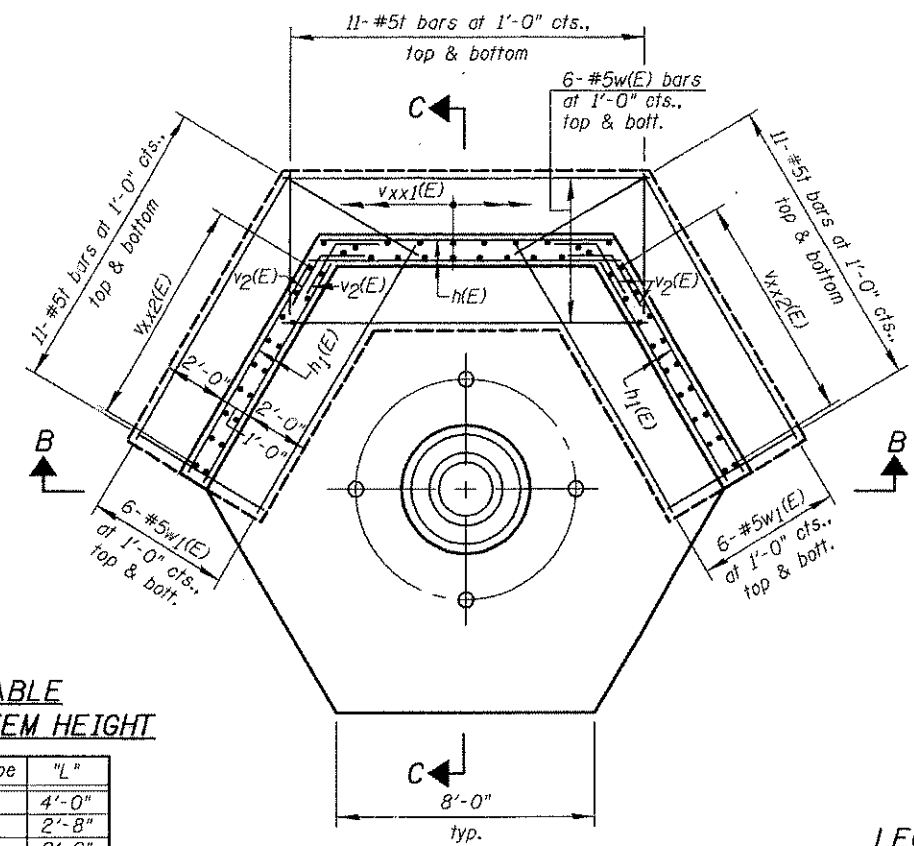
Notes:
 For location of Light Tower Foundations, see Lighting Plans.
 For High Mast Light Tower Foundation Details, see Sht. LT-21 thru LT-25.
 "xx" designation in bar marks represent backslopes conditions, bars indicated thus v2(E) indicates 1:3 backslopes.
 The Light Tower & Light Tower Foundation shall be paid for separately, all remaining work including grading, fill, service pad, retaining wall & reinforcement shall be paid for at the Contract Unit price per each for "Light Tower, Service Pad, Special".
 Cut vxx2(E) bars in field to fit front face of wingwalls and use remainder in the back face of the wingwalls.
 Reinforcement Bars designated (E) shall be epoxy coated.

h1(E) BAR QUANTITY TABLE

Backslope	"A"	"B"
1:2	8	4
1:3	7	4
1:4	6	3

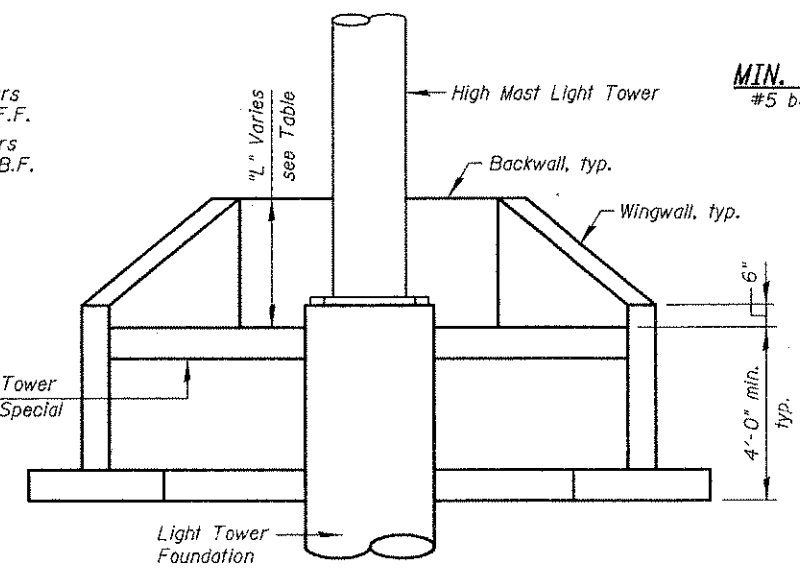
TABLE WALL STEM HEIGHT

Backslope	"L"
1:2	4'-0"
1:3	2'-8"
1:4	2'-0"



LIGHT TOWER, SERVICE PAD, SPECIAL PLAN

*Fan "A"-#5h1(E) bars at 1'-0" cts., max. F.F.
 **Fan "B"-#5h1(E) bars at 2'-0" cts., max. B.F.



SECTION B-B
 Reinforcement omitted for clarity

LEGEND:
 E.F. = Each Face
 F.F. = Front Face
 B.F. = Back Face

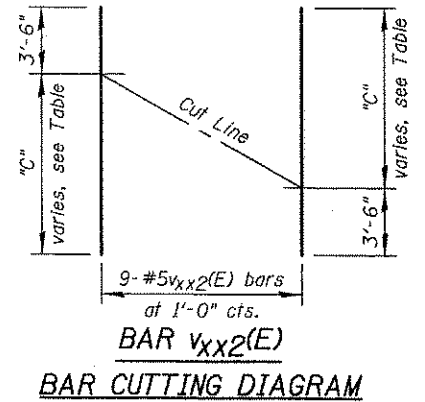
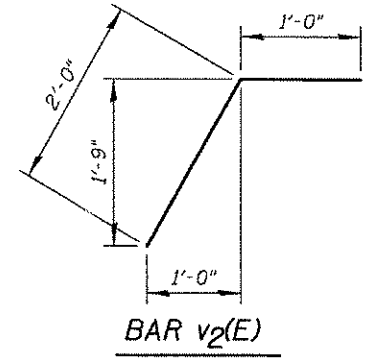
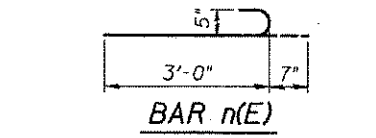
MIN. BAR LAP:
 #5 bars = 2'-0"

TABLE BAR CUTTING DIAGRAM

Backslope	"C"
1:2	6'-6"
1:3	5'-4"
1:4	4'-9"

BILL OF MATERIAL
 QUANTITIES SHOWN FOR ONE WALL

Bar	No.	Size	Length	Shape
n(E)	56	#5	3'-7"	U
h(E)	66	#5	4'-8"	—
w(E)	12	#5	11'-2"	—
w1(E)	24	#5	9'-6"	—
For Backslope = 1:2				
h(E)	12	#5	8'-11"	—
h1(E)	24	#5	8'-4"	—
v2(E)	24	#5	3'-0"	┘
v121(E)	20	#5	7'-0"	—
v122(E)	18	#5	10'-0"	—
For Backslope = 1:3				
h(E)	11	#5	8'-11"	—
h1(E)	22	#5	8'-4"	—
v2(E)	22	#5	3'-0"	┘
v131(E)	20	#5	5'-7"	—
v132(E)	18	#5	8'-10"	—
For Backslope = 1:4				
h(E)	9	#5	8'-11"	—
h1(E)	18	#5	8'-4"	—
v2(E)	18	#5	3'-0"	┘
v141(E)	20	#5	5'-0"	—
v142(E)	18	#5	8'-3"	—



BENCH MARK:

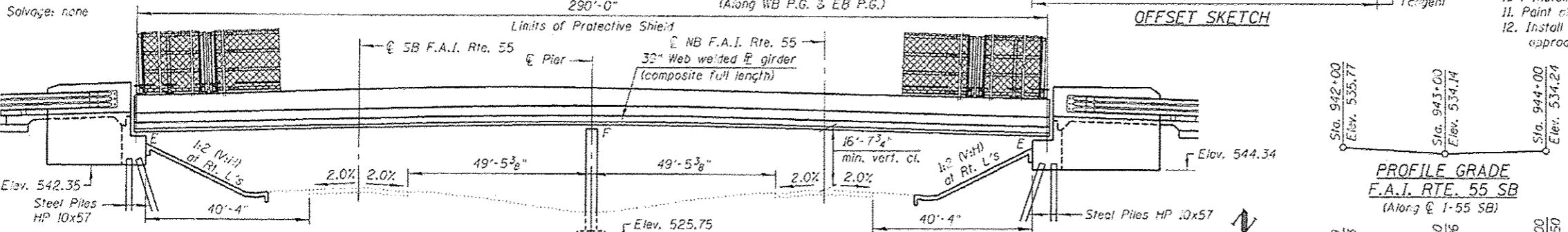
Disk N.W. corner of bridge U.S. Rte. 6 over F.A.I. Rte. 55 at Sta. 208+97, 32.78' Lt., Elev. 558.98

EXISTING STRUCTURE:

S.N. 099-0277 U.S. Rte. 6, Sec. 87-H-B-1 was built in 1989. The superstructure consists of two equal length spans (145'-0" from \bar{C} bearing to \bar{C} of pier), the reinforced composite concrete deck is supported by 39" web welded plate girders. The substructure consists of two stub concrete pile bent abutments supported on steel HP Piles and one pier with five trapezoidal columns supported on a spread footing. The existing deck measures 67'-2" out to out end back to back of abutments measures 295'-0" along local tangent. The existing deck is to be removed and widened as composite construction, the abutments and pier are to be widened.

Traffic will be maintained utilizing stage construction.

Salvage: none



HORIZ. CURVE DATA U.S. RTE. 6

(PR-US6-CL-1)
 $\Delta = 24^\circ 50' 17''$ (Rt.)
 $D = 0^\circ 34' 00''$
 $T = 2,226.14'$
 $L = 4,382.34'$
 $E = 242.21'$
 $R = 10,109.08'$
S.E. = not required
P.C. = Sta. 174+78.85
P.T. = Sta. 218+61.19
P.L. = Sta. 197+04.99

Note:
Dimensions are at Rt. L

SEISMIC DATA

Seismic Performance Category (SPC) = A
Horizontal Bedrock Acceleration coefficient (A) = 0.04g
Site coefficient (S) = 1.0

SCOPE OF WORK:

1. Remove the existing deck and approach slabs.
2. The Contractor shall not sawcut the deck over the top of the existing flanges.
3. Drive piles and construct widened portion of the substructure.
4. Perform structural repair of concrete to the substructure.
5. Apply concrete sealer.
6. Erect new plate girders and diaphragms beneath the widened portion of the deck.
7. Install shear connectors to both the existing and new steel girders.
8. Construct bridge deck, add 10'-0" min. Shared Use Path on the N. side of the bridge and add 5'-0" min. sidewalk on the S. side of the bridge.
9. Construct widened approach slabs.
10. Install expansion joints and preformed joint seals.
11. Paint all steel members including the bearings.
12. Install Bridge Fence Railing, Parapet Mounted on the bridge and approach slabs.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44

Allow 25#/sq. ft. for future wearing surface

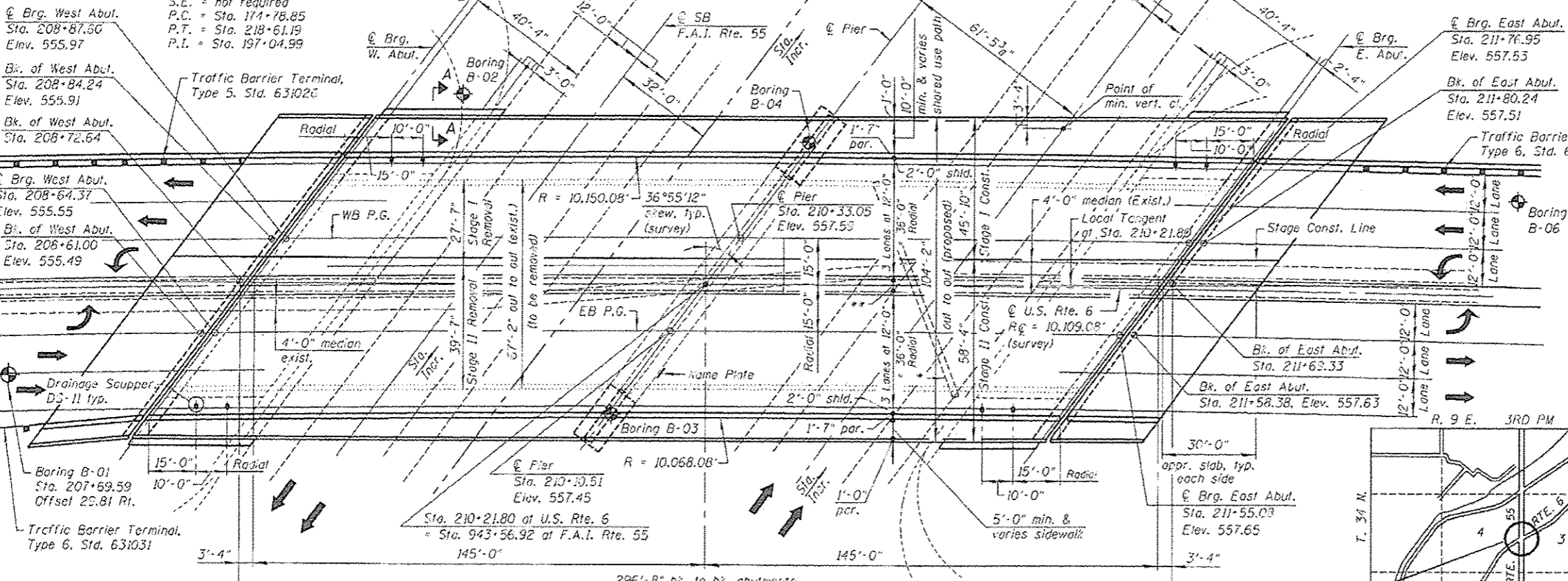
DESIGN STRESSES

FIELD UNITS-EXISTING STRUCTURE

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M223 Steel Grade 50)
 $f_y = 36,000$ psi (M183 Steel)

FIELD UNITS-NEW CONSTRUCTION

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi AASHTO (M270 Steel Grade 50)
 $f_y = 36,000$ psi AASHTO (M270 Grade 36)



PLAN

Notes:

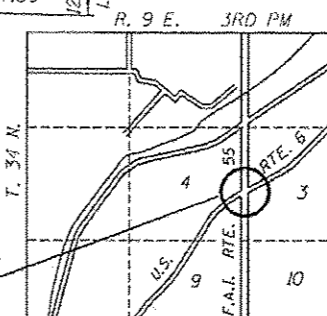
For Section A-A, see Sht. 342.

All dimensions are measured along the local tangent, unless otherwise noted.

*Existing 24" Concrete Pipe
**4'-0" Painted Median

Indicates Boring Locations

STRUCTURE LOCATION



LOCATION SKETCH



Signature: *D. J. Johnson*
Date: Oct. 10, 2014
November 30, 2014
Expires
For Sheets S-22 thru S-25

APPROVED
For Structural Adequacy Only

Signature: *B. Carl Krueger*
Engineer of Bridges & Structures



Signature: *Bhadresh N. Shah*
BHADRESH N. SHAH
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-004476
EXPIRES: 11-30-16

GENERAL PLAN & ELEVATION
U.S. RTE. 6 OVER F.A.I. RTE. 55
F.A.I. RTE. 55 SEC. 86-1-HBK-BY&R

WILL COUNTY

STATION 210+21.80

STRUCTURE NO. 099-0277

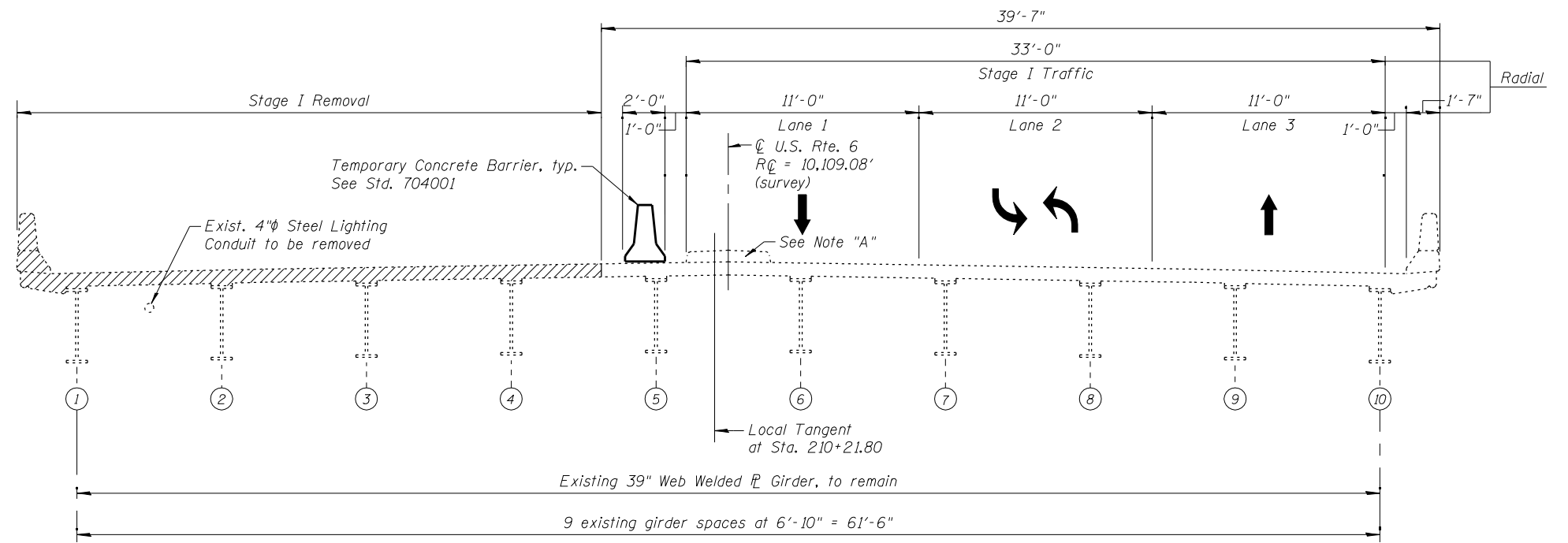
CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME: SAW	DESIGNED: B.N.S./J.W.	REVISIONS:
PLAT SCALE: 1/8" = 1'-0"	CHECKED: J.W./B.N.S.	REVISIONS:
PLAT DATE: 10/10/2014	DRAWN: F.M./B.K./J.V.	REVISIONS:
	DATE: OCTOBER, 2014	REVISIONS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

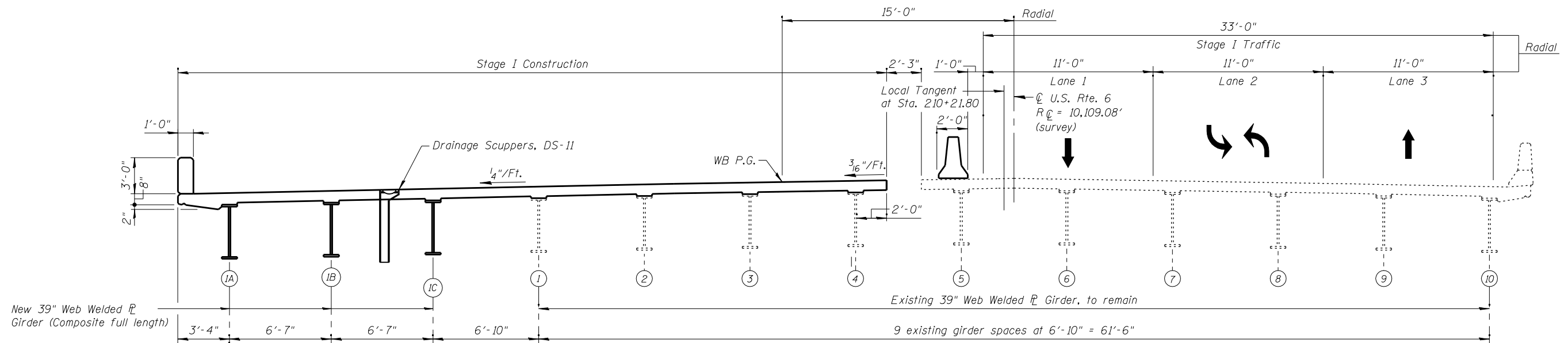
SHEET NO. 51 OF 551 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	181
			CONTRACT NO. 60XB4	
ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL

Note "A"
Median to be removed in pre-stage



STAGE I CONSTRUCTION

Notes:
All staging cross sections are looking East.
For quantity of Temporary Concrete Barrier, see roadway plans.
Hatched area indicates Removal of Existing Structures.

FILE NAME = I:\1028_U.S. Rte. 6\Structural\CADD Sheets\160X84-03-staging-1.dgn



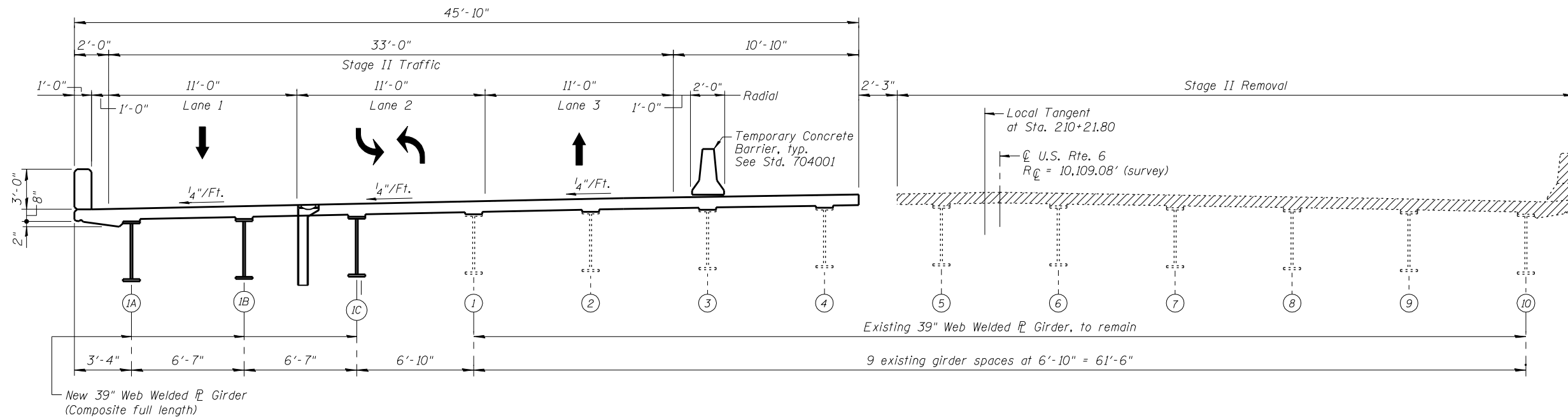
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PLOT SCALE = 100.0001' / IN.	CHECKED - J.W./B.N.S.	REVISED -
PLOT DATE = 10/15/2014	DRAWN - F.M./B.K./J.V.	REVISED -
	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

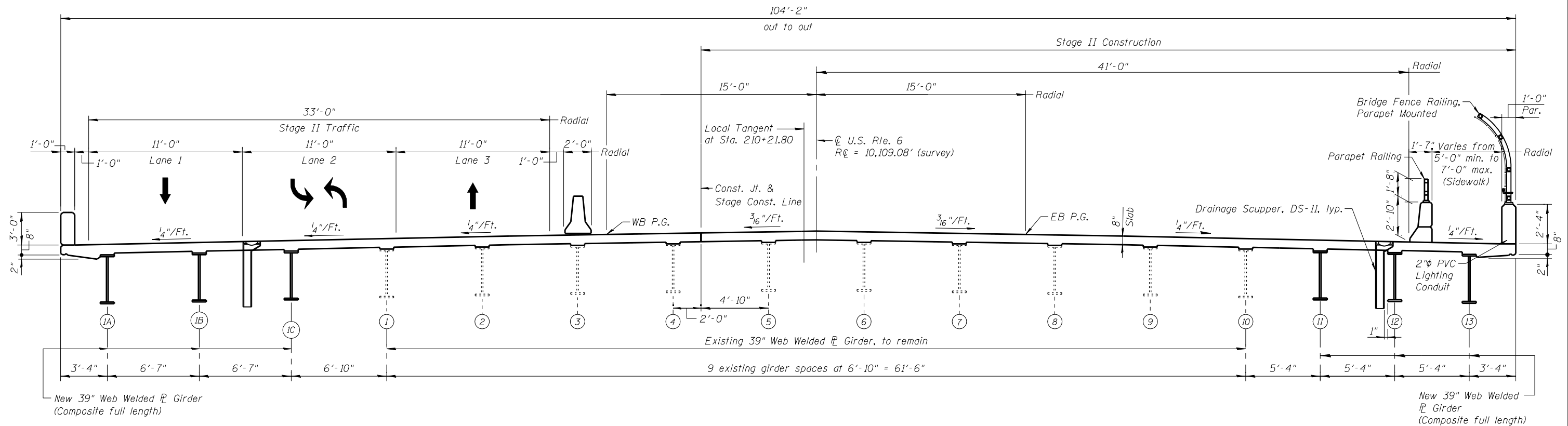
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 099-0277**

SHEET NO. S3 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	183
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				



STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:
 All staging cross sections are looking East.
 For quantity of Temporary Concrete Barrier, see roadway plans.
 Hatched area indicates Removal of Existing Structures.

FILE NAME = I:\1028.usa.rte.6\structural\cadd sheets\160X84-04-staging-1.dgn



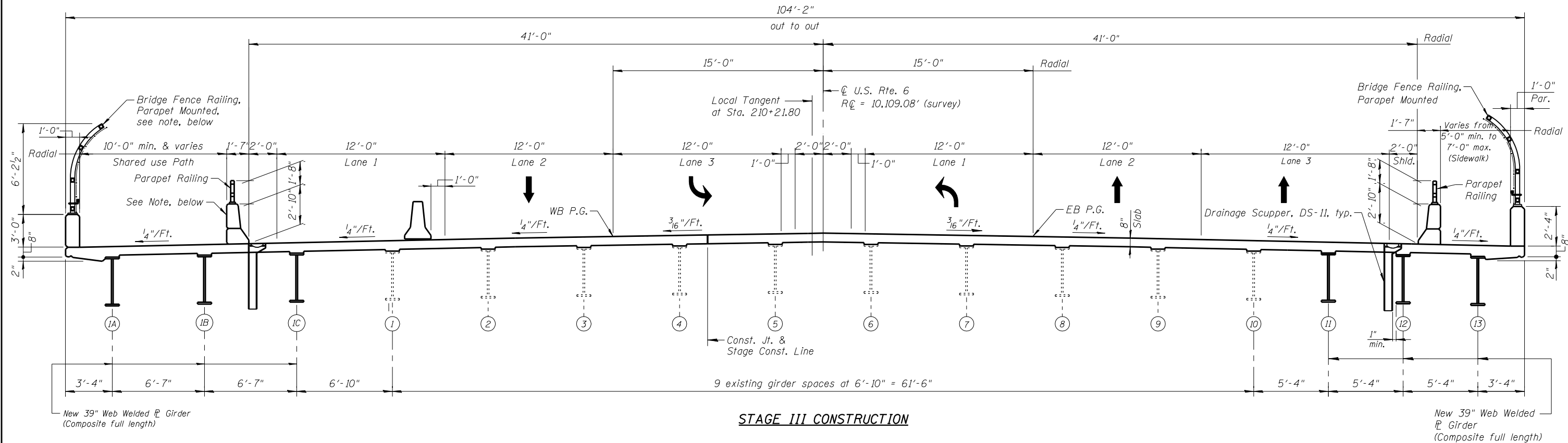
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PLOT SCALE = 100.0001' / IN.	CHECKED - J.W./B.N.S.	REVISED -
PLOT DATE = 10/15/2014	DRAWN - F.M./B.K./J.V.	REVISED -
	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 099-0277**

SHEET NO. S4 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	184
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				



Notes:
 All staging cross sections are looking East.
 Interior parapet, interior parapet railing and bridge fence railing, parapet mounted on north side of bridge to be constructed during Stage III Construction.

FILE NAME = I:\1028.usa.rte.6\structural\cadd\sheet\1600x84-05-staging-III.dgn

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	PLLOT SCALE = 1/8" = 100'-0"	CHECKED - J.W./B.N.S.	REVISED -
	PLLOT DATE = 10/10/2014	DRAWN - F.M./B.K./J.V.	REVISED -
		DATE - OCTOBER, 2014	REVISED -

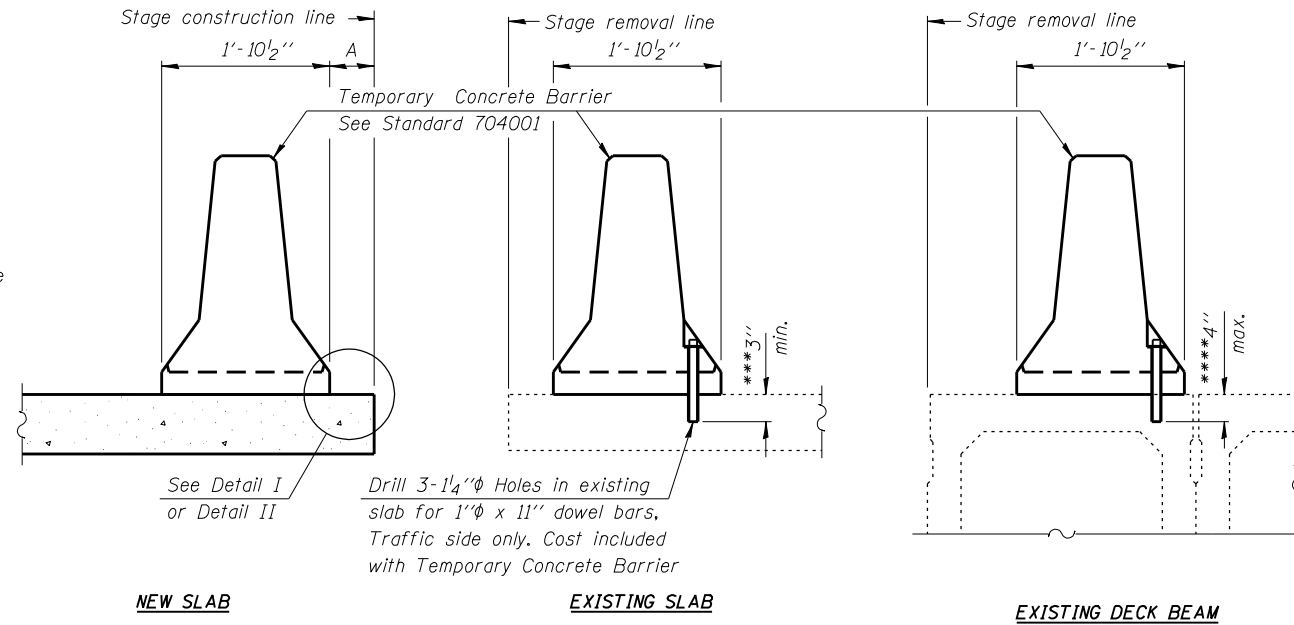
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 099-0277**

SHEET NO. S5 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	185
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				

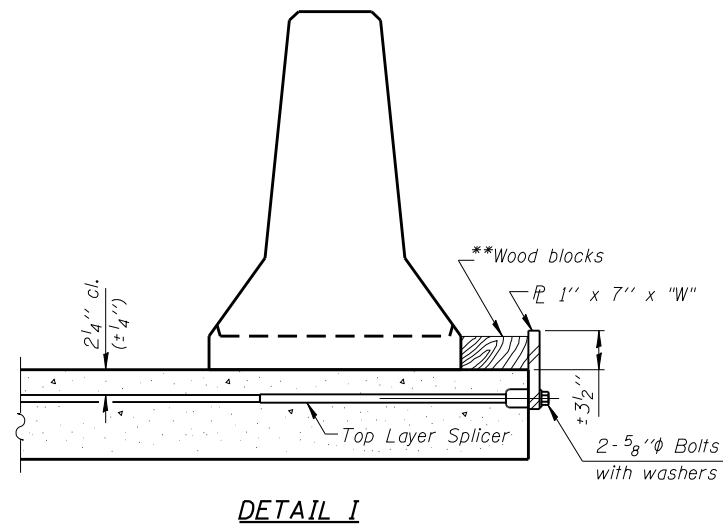
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6"



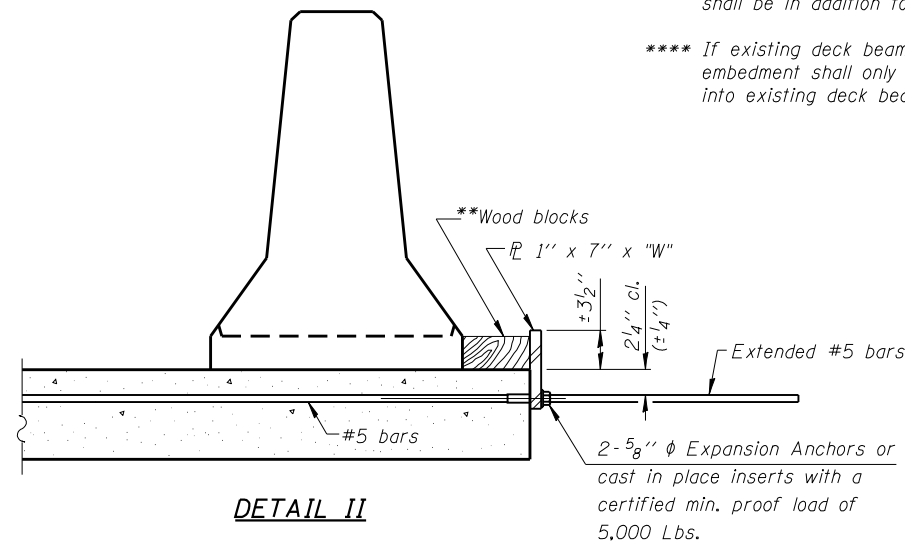
SECTIONS THRU SLAB OR DECK BEAM

NOTES
 Detail I - With Bar Splicer or Couplers:
 Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.
 Detail II - With Extended Reinforcement Bars:
 Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.
 Cost of anchorage is included with Temporary Concrete Barrier.
 The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

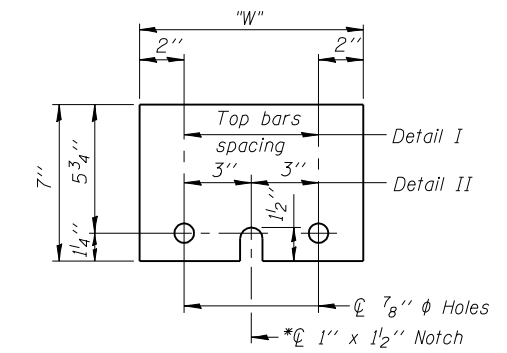
*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
 **** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"
 *Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27 7-1-10

FILE NAME = I:\1028.usa.r.te.6\structure\1\ceadd sheets\160084-06-conc_barrier.dgn



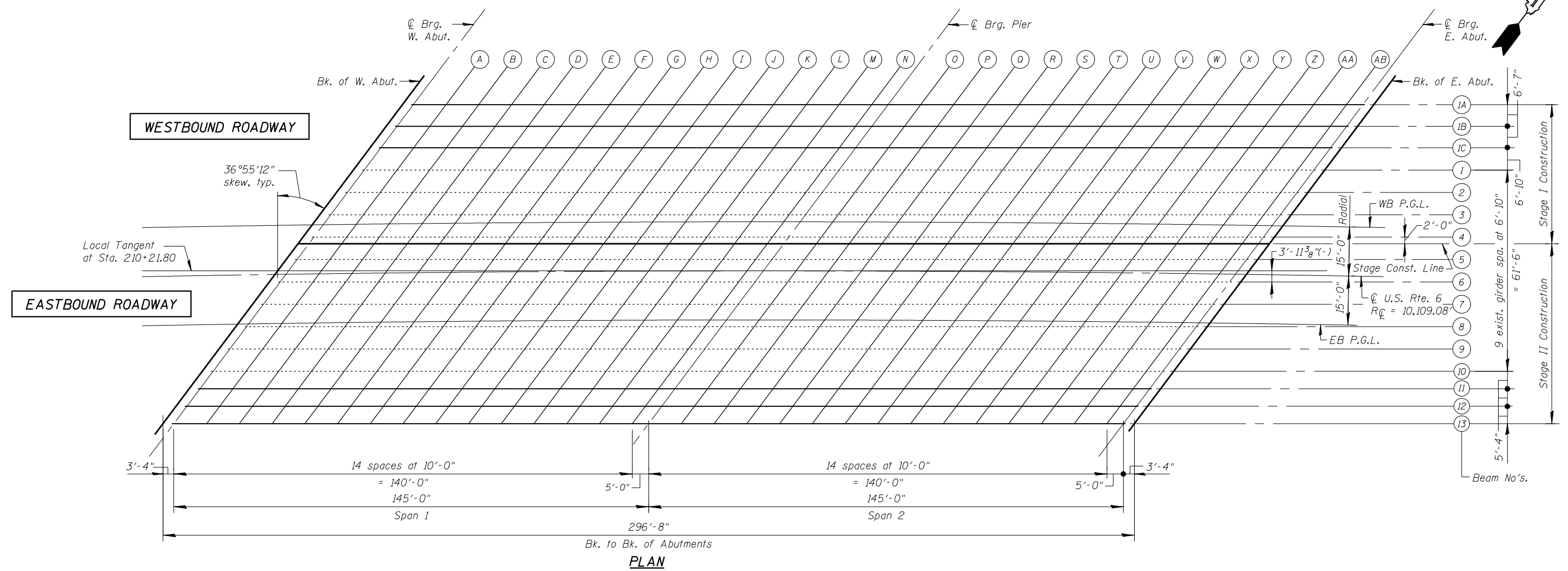
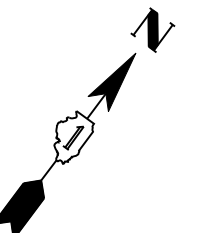
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PLOT SCALE = 100.0001' / IN.	CHECKED - J.W./B.N.S.	REVISED -
PLOT DATE = 10/10/2014	DRAWN - F.M./B.K./J.V.	REVISED -
	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

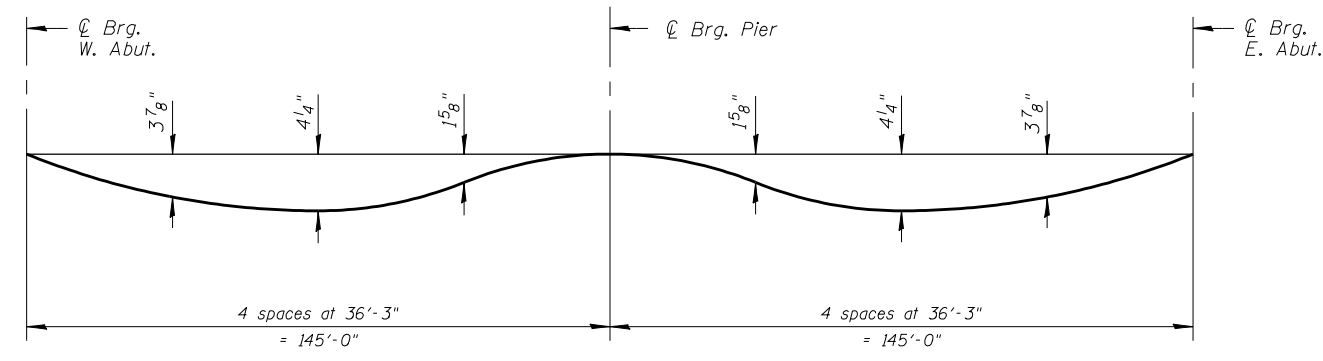
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 099-0277**

SHEET NO. S6 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	186
				CONTRACT NO. 60X84
ILLINOIS FED. AID PROJECT				

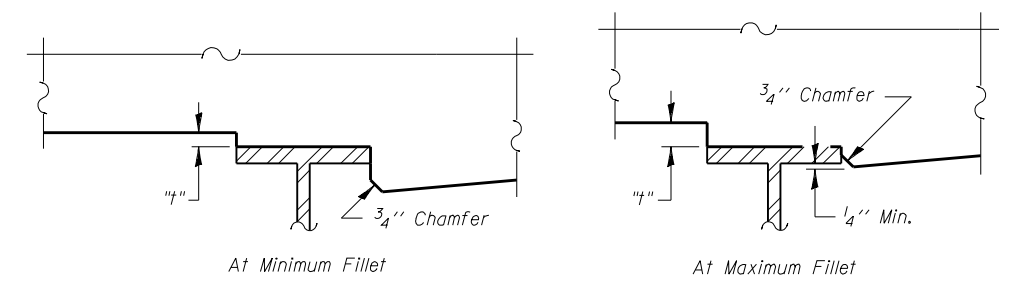


Note:
All dimensions are measured along the local tangent unless otherwise shown.



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

Note:
The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on Sht's. S8 thru S14



FILLET HEIGHTS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sht's. S8 thru S14, minus slab thickness, equals the fillet heights "t" above top flange of beams

FILE NAME = I:\1028.usa.rte.6\structure\1\cadd_sheets\160X84-07-dk_elev-1.dgn



USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED -
CHECKED - J.W./B.N.S.	REVISED -	
PLOT SCALE = 1/8" = 1'-0"	DRAWN - F.M./B.K./J.V.	REVISED -
PLOT DATE = 10/10/2014	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS-I
STRUCTURE NO. 099-0277**

SHEET NO. S7 OF S51 SHEETS

F.A.I. RTE. 55	SECTION 86-1-HBK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 187
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				

WB PGL

Table with 5 columns: LOCATION, STATION, OFFSET, THEORETICAL GRADE ELEVATIONS, THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS. Rows include BK. W. ABUT., CL. BRG. W. ABUT., A-N, CL BRG. PIER, O-AB, CL. BRG. E. ABUT., BK. E. ABUT.

BEAM 4

Table with 5 columns: LOCATION, STATION, OFFSET, THEORETICAL GRADE ELEVATIONS, THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS. Rows include BK. W. ABUT., CL. BRG. W. ABUT., A-N, CL BRG. PIER, O-AB, CL. BRG. E. ABUT., BK. E. ABUT.

STAGE CONSTRUCTION JOINT

Table with 5 columns: LOCATION, STATION, OFFSET, THEORETICAL GRADE ELEVATIONS, THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS. Rows include BK. W. ABUT., CL. BRG. W. ABUT., A-N, CL BRG. PIER, O-AB, CL. BRG. E. ABUT., BK. E. ABUT.

FILE NAME = I:\1028.usa_rte_6\structure\1\ceadd_sheets\160084-10-ok_elev-IV.dgn



Table with 2 columns: USER NAME = IDOT, DESIGNED - B.N.S./J.W., CHECKED - J.W./B.N.S., DRAWN - F.M./B.K./J.V., DATE - OCTOBER, 2014

Table with 2 columns: REVISED - , REVISED - , REVISED - , REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS-IV STRUCTURE NO. 099-0277

SHEET NO. S10 OF S51 SHEETS

Table with 6 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 60X84. Includes ILLINOIS FED. AID PROJECT.

BEAM 5

CL ROADWAY

BEAM 6

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	208+76.10	-4.46	555.92	555.92
CL. BRG. W. ABUT	208+79.43	-4.41	555.98	555.98
A	208+89.43	-4.28	556.16	556.28
B	208+99.42	-4.15	556.32	556.55
C	209+09.42	-4.04	556.48	556.79
D	209+19.41	-3.93	556.63	557.00
E	209+29.41	-3.83	556.77	557.18
F	209+39.40	-3.75	556.91	557.32
G	209+49.40	-3.67	557.03	557.42
H	209+59.40	-3.61	557.15	557.50
I	209+69.39	-3.55	557.26	557.55
J	209+79.39	-3.51	557.36	557.58
K	209+89.39	-3.47	557.45	557.59
L	209+99.38	-3.44	557.54	557.61
M	210+09.38	-3.43	557.62	557.63
N	210+19.38	-3.42	557.68	557.68
CL BRG. PIER	210+24.37	-3.42	557.72	557.72
O	210+34.37	-3.43	557.77	557.77
P	210+44.36	-3.45	557.82	557.86
Q	210+54.36	-3.48	557.86	557.96
R	210+64.36	-3.51	557.89	558.07
S	210+74.35	-3.56	557.92	558.17
T	210+84.35	-3.62	557.93	558.25
U	210+94.34	-3.69	557.94	558.31
V	211+04.34	-3.76	557.94	558.34
W	211+14.34	-3.85	557.93	558.34
X	211+24.33	-3.95	557.91	558.30
Y	211+34.33	-4.06	557.89	558.23
Z	211+44.32	-4.17	557.85	558.12
AA	211+54.32	-4.30	557.81	557.99
AB	211+64.31	-4.44	557.76	557.82
CL. BRG. E. ABUT.	211+69.31	-4.51	557.74	557.74
BK. E. ABUT.	211+72.62	-4.56	557.72	557.72

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	208+72.65	0.00	555.93	555.93
CL. BRG. W. ABUT	208+76.02	0.00	555.99	555.99
A	208+86.05	0.00	556.16	556.28
B	208+96.07	0.00	556.33	556.56
C	209+06.10	0.00	556.49	556.80
D	209+16.13	0.00	556.64	557.01
E	209+26.15	0.00	556.79	557.19
F	209+36.18	0.00	556.92	557.33
G	209+46.21	0.00	557.05	557.44
H	209+56.23	0.00	557.17	557.52
I	209+66.26	0.00	557.28	557.57
J	209+76.28	0.00	557.38	557.60
K	209+86.31	0.00	557.48	557.62
L	209+96.34	0.00	557.57	557.64
M	210+06.36	0.00	557.64	557.66
N	210+16.39	0.00	557.72	557.71
CL BRG. PIER	210+21.80	0.00	557.75	557.75
O	210+31.80	0.00	557.81	557.81
P	210+41.80	0.00	557.86	557.90
Q	210+51.80	0.00	557.90	558.00
R	210+61.80	0.00	557.94	558.11
S	210+71.80	0.00	557.96	558.22
T	210+81.80	0.00	557.98	558.30
U	210+91.80	0.00	557.99	558.37
V	211+01.80	0.00	558.00	558.40
W	211+11.80	0.00	557.99	558.40
X	211+21.80	0.00	557.98	558.36
Y	211+31.80	0.00	557.95	558.29
Z	211+41.80	0.00	557.93	558.19
AA	211+51.80	0.00	557.89	558.06
AB	211+61.80	0.00	557.84	557.89
CL. BRG. E. ABUT.	211+66.02	0.00	557.82	557.82
BK. E. ABUT.	211+69.30	0.00	557.80	557.80

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	208+70.86	2.31	555.86	555.86
CL. BRG. W. ABUT	208+74.20	2.35	555.92	555.92
A	208+84.20	2.50	556.10	556.22
B	208+94.20	2.62	556.26	556.49
C	209+04.20	2.75	556.42	556.73
D	209+14.20	2.86	556.57	556.94
E	209+24.21	2.96	556.71	557.12
F	209+34.21	3.05	556.85	557.26
G	209+44.21	3.13	556.98	557.37
H	209+54.21	3.20	557.10	557.45
I	209+64.22	3.26	557.21	557.50
J	209+74.22	3.31	557.31	557.53
K	209+84.22	3.35	557.41	557.55
L	209+94.23	3.38	557.50	557.56
M	210+04.23	3.41	557.58	557.59
N	210+14.23	3.42	557.65	557.64
CL BRG. PIER	210+19.26	3.42	557.68	557.68
O	210+29.23	3.42	557.74	557.74
P	210+39.24	3.40	557.80	557.83
Q	210+49.24	3.38	557.84	557.94
R	210+59.24	3.35	557.88	558.05
S	210+69.25	3.30	557.91	558.16
T	210+79.25	3.25	557.93	558.25
U	210+89.25	3.19	557.94	558.31
V	210+99.26	3.12	557.95	558.35
W	211+09.26	3.03	557.95	558.36
X	211+19.26	2.94	557.94	558.33
Y	211+29.26	2.84	557.92	558.26
Z	211+39.27	2.73	557.89	558.16
AA	211+49.27	2.61	557.86	558.03
AB	211+59.27	2.47	557.82	557.88
CL. BRG. E. ABUT.	211+64.27	2.40	557.79	557.79
BK. E. ABUT.	211+67.58	2.36	557.78	557.78

	USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED -
	CHECKED - J.W./B.N.S.		REVISED -
	PLOT SCALE = 100.0001' / IN.	DRAWN - F.M./B.K./J.V.	REVISED -
	PLOT DATE = 10/10/2014	DATE - OCTOBER, 2014	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS-V STRUCTURE NO. 099-0277
SHEET NO. S11 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	191
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				

BEAM 12

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	208+41.63	39.83	554.60	554.60
CL. BRG. W. ABUT.	208+44.98	39.89	554.67	554.67
A	208+55.02	40.06	554.87	554.99
B	208+65.06	40.22	555.06	555.28
C	208+75.10	40.37	555.24	555.55
D	208+85.14	40.51	555.41	555.78
E	208+95.18	40.64	555.58	555.98
F	209+05.21	40.76	555.74	556.15
G	209+15.25	40.87	555.89	556.28
H	209+25.29	40.97	556.03	556.38
I	209+35.34	41.06	556.16	556.45
J	209+45.38	41.14	556.29	556.51
K	209+55.42	41.21	556.41	556.55
L	209+65.46	41.27	556.52	556.59
M	209+75.50	41.32	556.62	556.64
N	209+85.54	41.36	556.72	556.71
CL BRG. PIER	209+90.59	41.37	556.76	556.76
O	210+00.63	41.40	556.85	556.85
P	210+10.67	41.42	556.92	556.96
Q	210+20.71	41.42	556.99	557.09
R	210+30.72	41.42	557.05	557.23
S	210+40.76	41.40	557.10	557.35
T	210+50.81	41.38	557.15	557.47
U	210+60.85	41.34	557.18	557.55
V	210+70.89	41.30	557.21	557.61
W	210+80.93	41.24	557.23	557.64
X	210+90.97	41.18	557.24	557.63
Y	211+01.01	41.10	557.25	557.59
Z	211+11.05	41.02	557.24	557.52
AA	211+21.09	40.93	557.23	557.41
AB	211+31.13	40.82	557.22	557.28
CL. BRG. E. ABUT.	211+36.14	40.77	557.20	557.20
BK. E. ABUT.	211+39.47	40.73	557.19	557.19

BEAM 13

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	208+37.52	45.09	554.41	554.41
CL. BRG. W. ABUT	208+40.87	45.15	554.48	554.48
A	208+50.91	45.33	554.68	554.80
B	208+60.95	45.49	554.87	555.10
C	208+71.00	45.64	555.06	555.37
D	208+81.04	45.79	555.24	555.61
E	208+91.09	45.92	555.41	555.81
F	209+01.13	46.04	555.57	555.98
G	209+11.18	46.16	555.72	556.11
H	209+21.22	46.26	555.87	556.21
I	209+31.27	46.35	556.00	556.29
J	209+41.31	46.44	556.13	556.35
K	209+51.36	46.51	556.26	556.39
L	209+61.40	46.58	556.37	556.44
M	209+71.45	46.63	556.48	556.49
N	209+81.50	46.67	556.58	556.57
CL BRG. PIER	209+86.55	46.69	556.62	556.62
O	209+96.59	46.72	556.71	556.71
P	210+06.64	46.74	556.79	556.83
Q	210+16.69	46.75	556.86	556.96
R	210+26.71	46.75	556.92	557.10
S	210+36.75	46.74	556.98	557.23
T	210+46.80	46.72	557.02	557.34
U	210+56.84	46.69	557.06	557.43
V	210+66.89	46.65	557.09	557.50
W	210+76.94	46.60	557.12	557.53
X	210+86.98	46.54	557.13	557.52
Y	210+97.03	46.46	557.14	557.48
Z	211+07.08	46.38	557.14	557.41
AA	211+17.12	46.29	557.13	557.31
AB	211+27.17	46.19	557.12	557.18
CL. BRG. E. ABUT.	211+32.18	46.14	557.11	557.11
BK. E. ABUT.	211+35.51	46.10	557.10	557.10

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS-VIII
STRUCTURE NO. 099-0277

SHEET NO. S14 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	194
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHARED USE PATH

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+84.68	-53.49	555.11
A1	208+94.50	-53.36	555.28
A2	209+04.33	-53.24	555.44
E. END OF WEST APPROACH PAVEMENT	209+14.16	-53.13	555.59

NORTH EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+75.07	-41.00	555.20
A1	208+85.00	-41.00	555.38
A2	208+94.94	-41.00	555.55
E. END OF WEST APPROACH PAVEMENT	209+04.87	-41.00	555.71

WB P.G.L.

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+54.95	-15.00	555.37
A1	208+64.92	-15.00	555.56
A2	208+74.90	-15.00	555.74
E. END OF WEST APPROACH PAVEMENT	208+84.87	-15.00	555.92

STAGE CONST. JOINT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+50.42	-9.17	555.37
A1	208+60.28	-9.01	555.56
A2	208+70.15	-8.86	555.75
E. END OF WEST APPROACH PAVEMENT	208+80.02	-8.71	555.93

U.S. RTE. 6

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+43.28	0.00	555.37
A1	208+53.28	0.00	555.57
A2	208+63.28	0.00	555.76
E. END OF WEST APPROACH PAVEMENT	208+73.28	0.00	555.95

EB P.G.L.

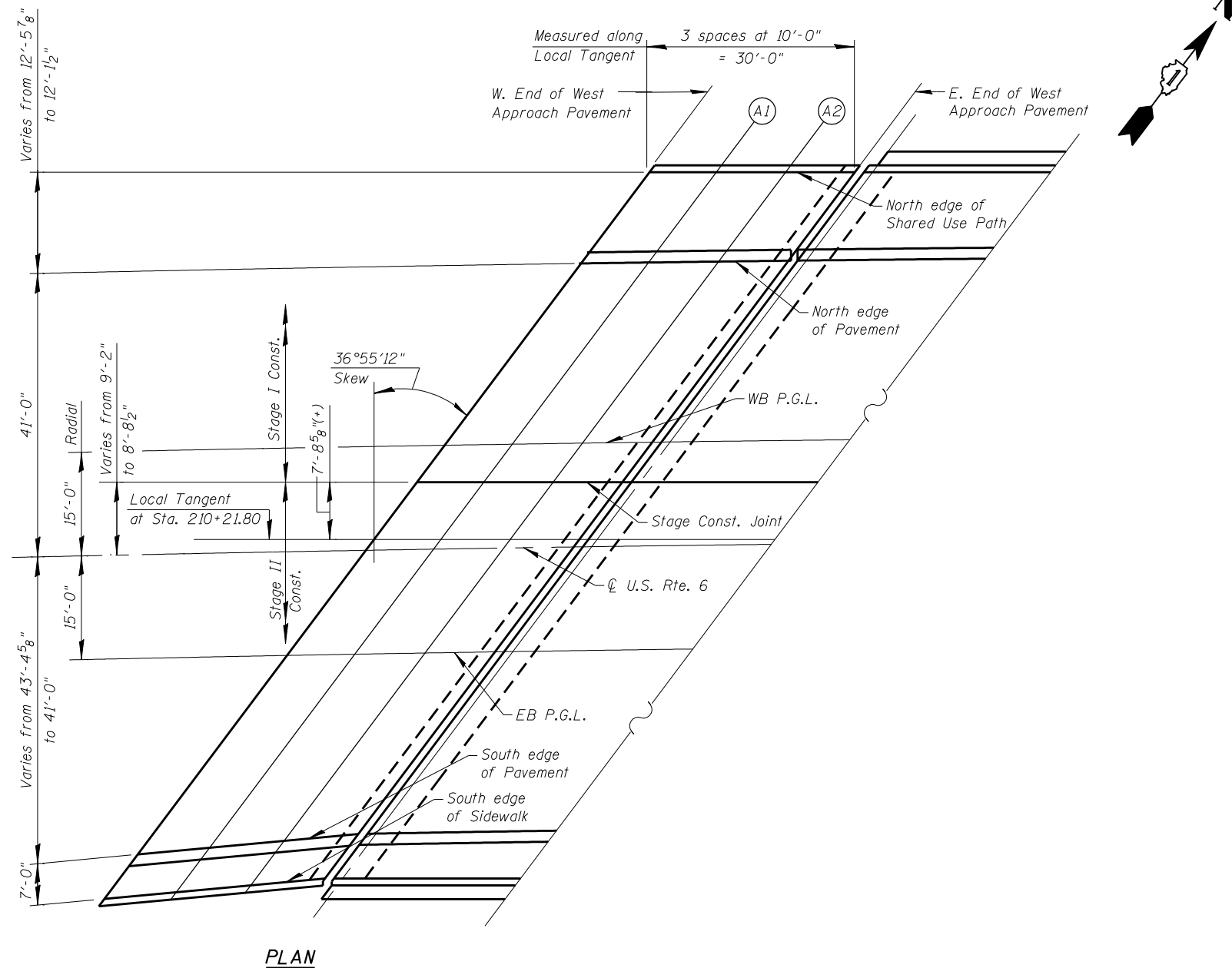
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+31.57	15.00	554.89
A1	208+41.59	15.00	555.10
A2	208+51.61	15.00	555.30
E. END OF WEST APPROACH PAVEMENT	208+61.64	15.00	555.50

SOUTH EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+09.28	43.39	553.80
A1	208+19.96	42.60	554.06
A2	208+30.66	41.80	554.31
E. END OF WEST APPROACH PAVEMENT	208+41.35	41.00	554.55

SOUTH EDGE OF SIDEWALK

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF WEST APPROACH PAVEMENT	208+03.75	50.39	553.52
A1	208+14.45	49.61	553.79
A2	208+25.15	48.82	554.04
E. END OF WEST APPROACH PAVEMENT	208+35.86	48.01	554.29



PLAN

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	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-0277**

SHEET NO. S15 OF S51 SHEETS

F.A.I. RTE. 55	SECTION 86-1-HBK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 195
CONTRACT NO. 60X84				ILLINOIS FED. AID PROJECT

NORTH EDGE OF SHARED USE PATH

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	212+08.01	-54.28	556.49
A3	212+18.06	-54.47	556.39
A4	212+28.12	-54.67	556.29
E. END OF EAST APPROACH PAVEMENT	212+38.19	-54.88	556.18

NORTH EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+98.44	-41.00	556.84
A3	212+08.38	-41.00	556.76
A4	212+18.32	-41.00	556.67
E. END OF EAST APPROACH PAVEMENT	212+28.26	-41.00	556.57

WB P.G.L.

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+79.62	-15.00	557.52
A3	211+89.60	-15.00	557.45
A4	211+99.58	-15.00	557.37
E. END OF EAST APPROACH PAVEMENT	212+09.55	-15.00	557.29

STAGE CONST. JOINT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+75.18	-8.88	557.64
A3	211+85.28	-9.04	557.57
A4	211+95.39	-9.21	557.50
E. END OF EAST APPROACH PAVEMENT	212+05.60	-9.39	557.41

U.S. RTE. 6

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+68.71	0.00	557.82
A3	211+78.71	0.00	557.76
A4	211+88.71	0.00	557.69
E. END OF EAST APPROACH PAVEMENT	211+98.71	0.00	557.61

EB P.G.L.

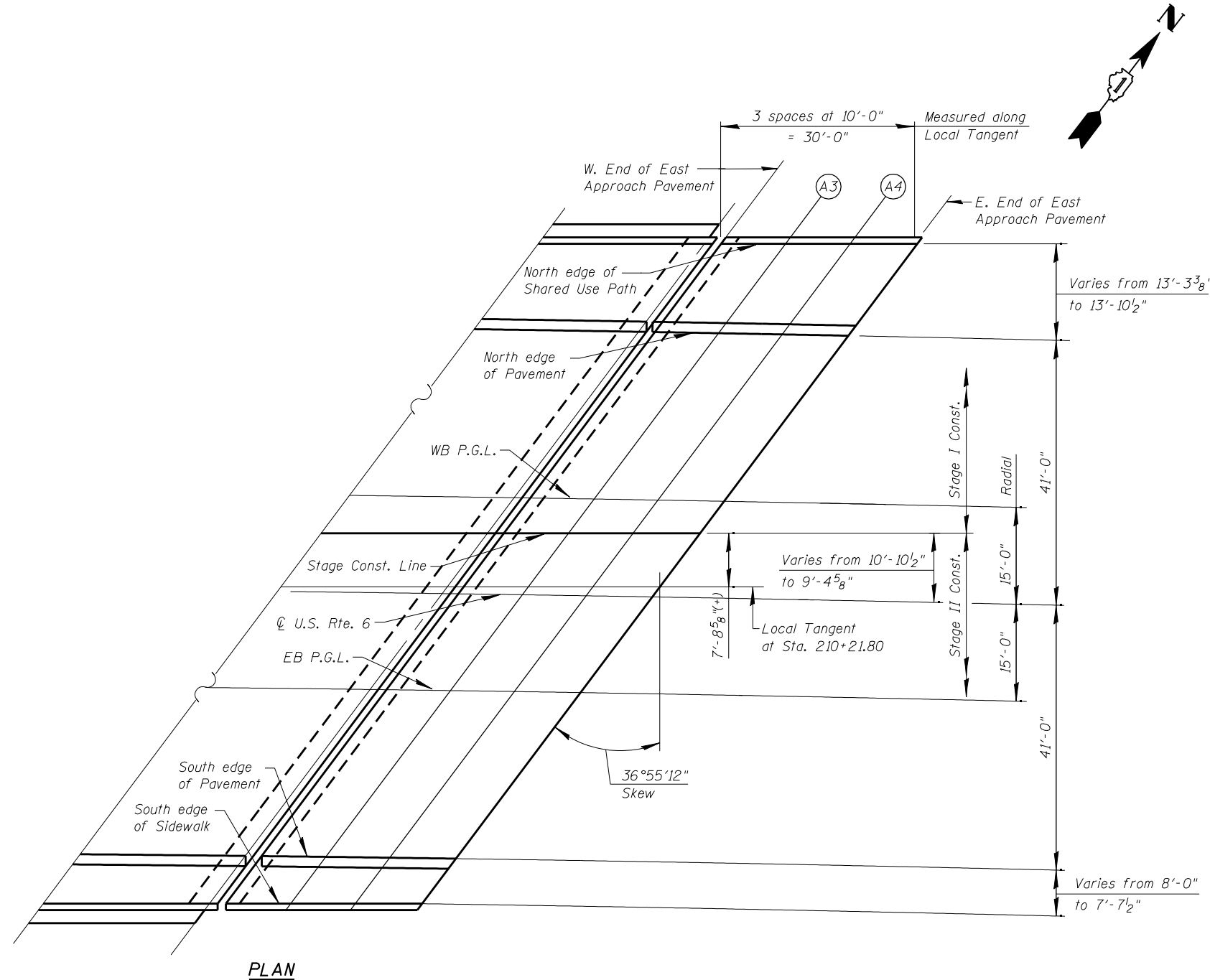
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+57.76	15.00	557.64
A3	211+67.78	15.00	557.59
A4	211+77.80	15.00	557.53
E. END OF EAST APPROACH PAVEMENT	211+87.82	15.00	557.46

SOUTH EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+38.67	41.00	557.17
A3	211+48.73	41.00	557.13
A4	211+58.80	41.00	557.09
E. END OF EAST APPROACH PAVEMENT	211+68.86	41.00	557.04

SOUTH EDGE OF SIDEWALK

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END OF EAST APPROACH PAVEMENT	211+32.77	49.00	557.02
A3	211+42.93	48.89	556.99
A4	211+53.10	48.76	556.95
E. END OF EAST APPROACH PAVEMENT	211+63.27	48.62	556.91



PLAN

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CHRISTIAN-ROGE & ASSOCIATES, INC.

USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED -
DESIGNED - B.N.S./J.W.	CHECKED - J.W./B.N.S.	REVISED -
DESIGNED - B.N.S./J.W.	DRAWN - F.M./B.K./J.V.	REVISED -
DESIGNED - B.N.S./J.W.	DATE - OCTOBER, 2014	REVISED -

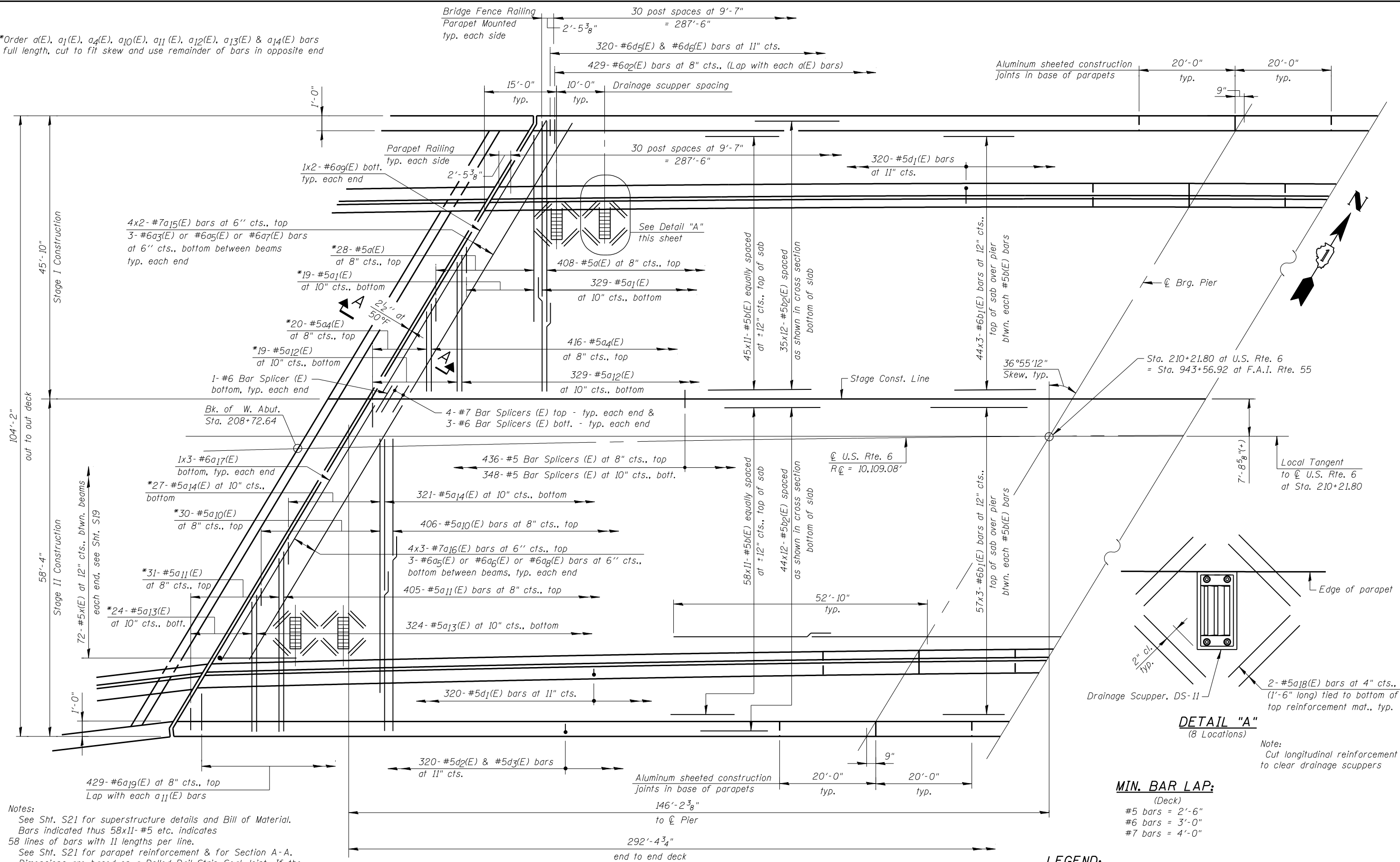
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-0277**

SHEET NO. S16 OF S51 SHEETS

F.A.I. RTE. 55	SECTION 86-1-HBK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 196
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				

*Order a(E), a₁(E), a₄(E), a₁₀(E), a₁₁(E), a₁₂(E), a₁₃(E) & a₁₄(E) bars full length, cut to fit skew and use remainder of bars in opposite end



Notes:
 See Sht. S21 for superstructure details and Bill of Material.
 Bars indicated thus 58x11-#5 etc. indicates 58 lines of bars with 11 lengths per line.
 See Sht. S21 for parapet reinforcement & for Section A-A.
 Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, the deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ, see Sht. S28.

PARTIAL PLAN

MIN. BAR LAP:
 (Deck)
 #5 bars = 2'-6"
 #6 bars = 3'-0"
 #7 bars = 4'-0"

LEGEND:
 O.F. = Outside Face
 I.F. = Inside Face

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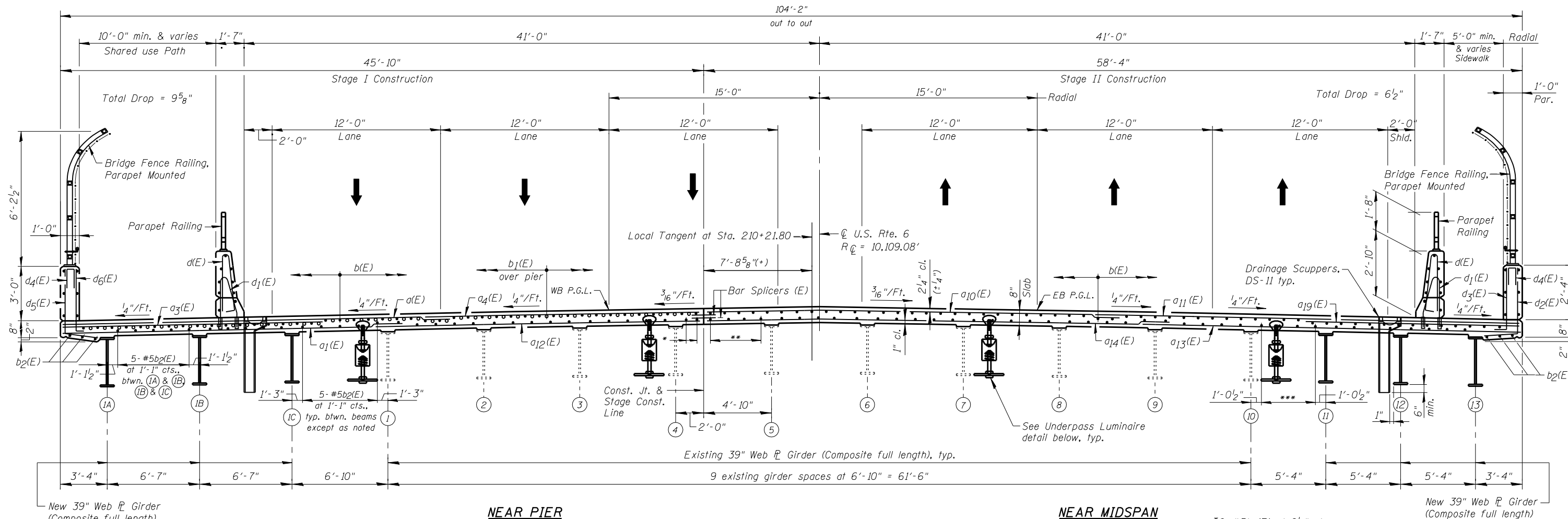
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PLOT DATE = 10/10/2014	DRAWN - F.M./B.K./J.V.	REVISED -
	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK REINFORCEMENT PLAN
 STRUCTURE NO. 099-0277**

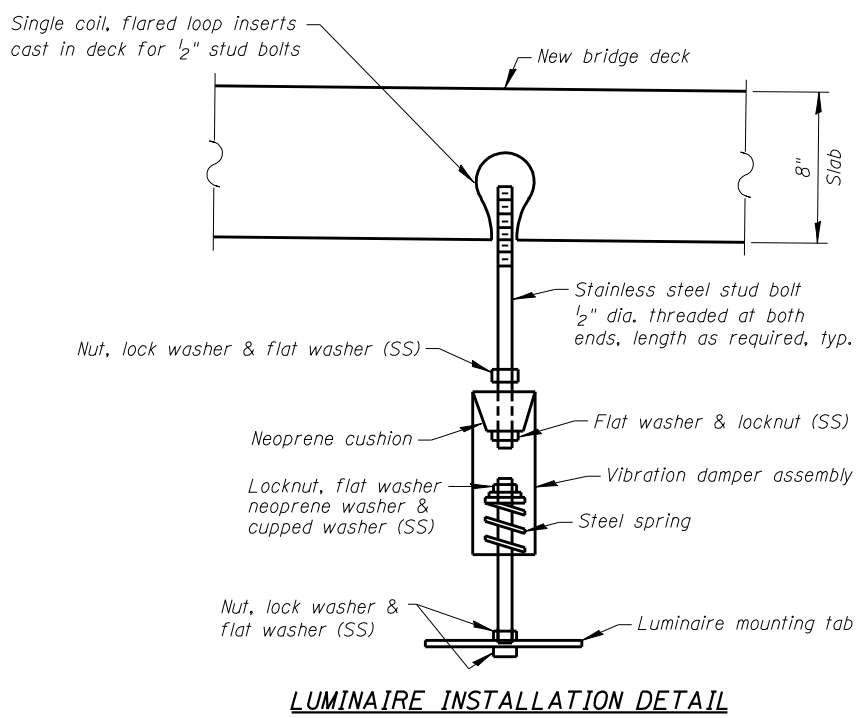
SHEET NO. S17 OF S51 SHEETS

F.A.I. RTE. 55	SECTION 86-1-HBK-BY&R	COUNTY WILL	TOTAL SHEETS 271	SHEET NO. 197
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				



- *2-#5b₂(E) at 9/2" cts.
- **4-#5b₂(E) at 1'-1" cts.
- ***4-#5b₂(E) at 1'-1" cts., between girders (10) & (11), (11) & (12), (12) & (13)

CROSS SECTION



Notes:

- See Electrical Plans for location and quantities of Underpass Luminaire, 70 Watt, High Pressure Sodium Vapor.
- See Sht. S21 for Parapet Reinforcement.
- See Sht. S29 for DS-11 Drainage Scupper Details.
- See Sht's. S27 & S28 for Bridge Fence Railing Details.

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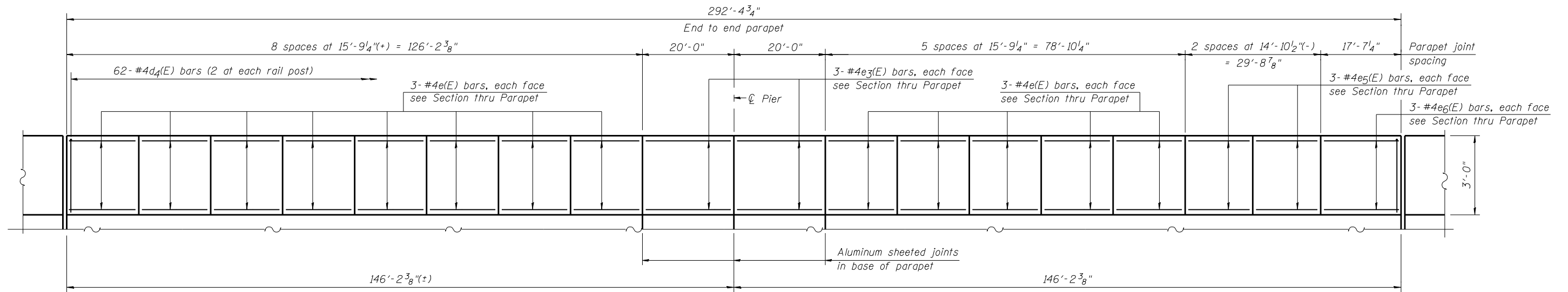
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	PLOT DATE = 10/10/2014	DRAWN - F.M./B.K./J.V.	REVISED -
		DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

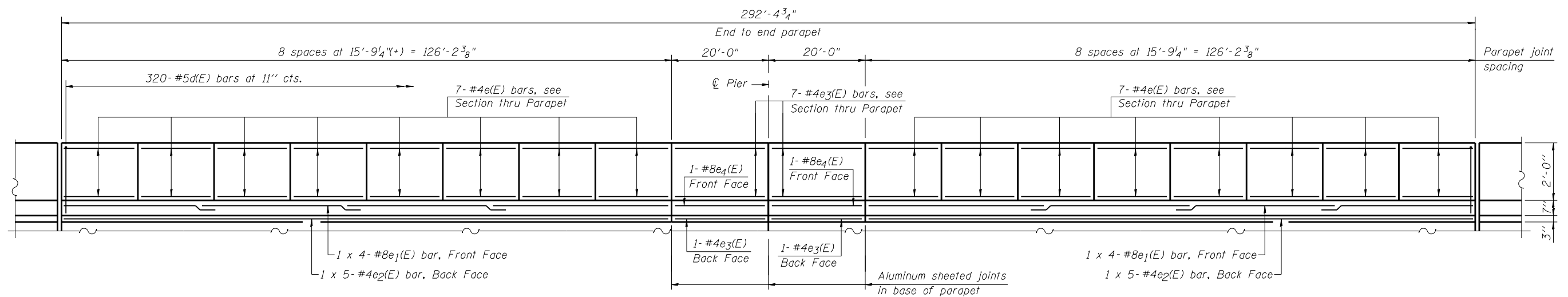
**DECK CROSS SECTION
STRUCTURE NO. 099-0277**

SHEET NO. S18 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	198
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X84	



INSIDE ELEVATION OF OUTSIDE PARAPET



INSIDE ELEVATION OF INSIDE PARAPET

MIN. BAR LAP:
 (Parapet)
 #4 bars = 2'-0"
 #8 bars = 5'-2"

Note:
 Reinforcement bars shall not pass through aluminum sheet or preformed cork joint filler

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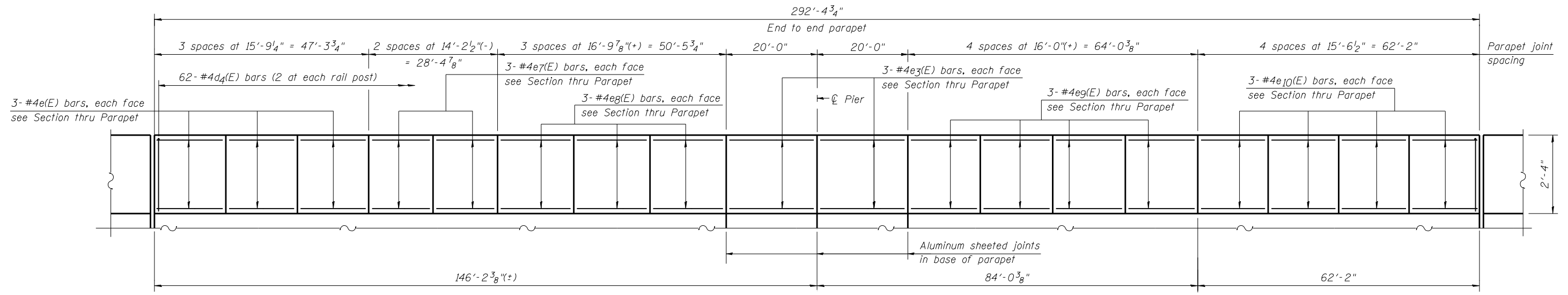
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PLOT DATE = 10/10/2014	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

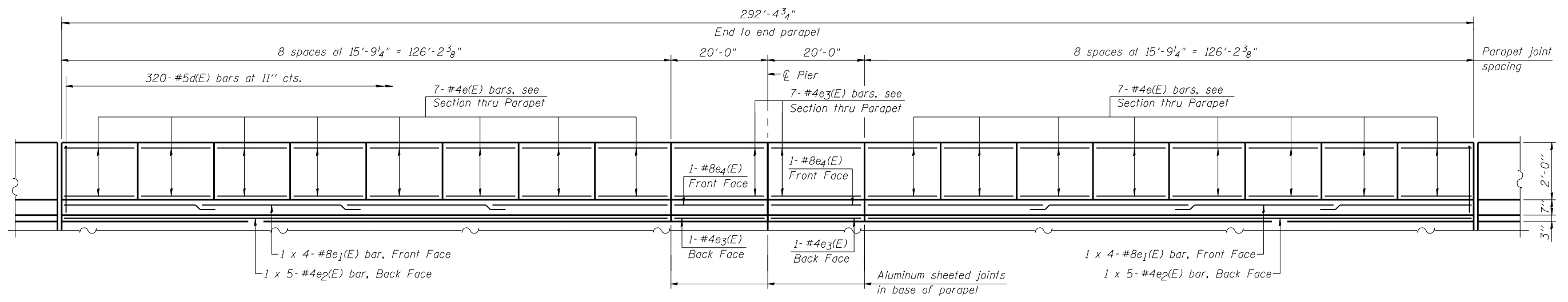
**NORTH PARAPET DETAILS
 STRUCTURE NO. 099-0277**

SHEET NO. S19 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	199
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF OUTSIDE PARAPET



INSIDE ELEVATION OF INSIDE PARAPET

MIN. BAR LAP:
 (Parapet)
 #4 bars = 2'-0"
 #8 bars = 5'-2"

Note:
 Reinforcement bars shall not pass through
 aluminum sheet or preformed cork joint filler

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USER NAME = IDOT	DESIGNED - B.N.S./J.W.	REVISED -
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PLOT DATE = 10/10/2014	DRAWN - F.M./B.K./J.V.	REVISED -
	DATE - OCTOBER, 2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTH PARAPET DETAILS
 STRUCTURE NO. 099-0277**

SHEET NO. S20 OF S51 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	86-1-HBK-BY&R	WILL	271	200
CONTRACT NO. 60X84				
ILLINOIS FED. AID PROJECT				