

STORM SEWER REMOVAL			
STA.	TO STA.	LF	PIPE
41+18	41+23	7	10" RCP
41+18	41+27	46	10" RCP
41+18	43+62	244	15" RCP
43+91	43+96	20	12" RCP

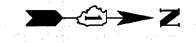
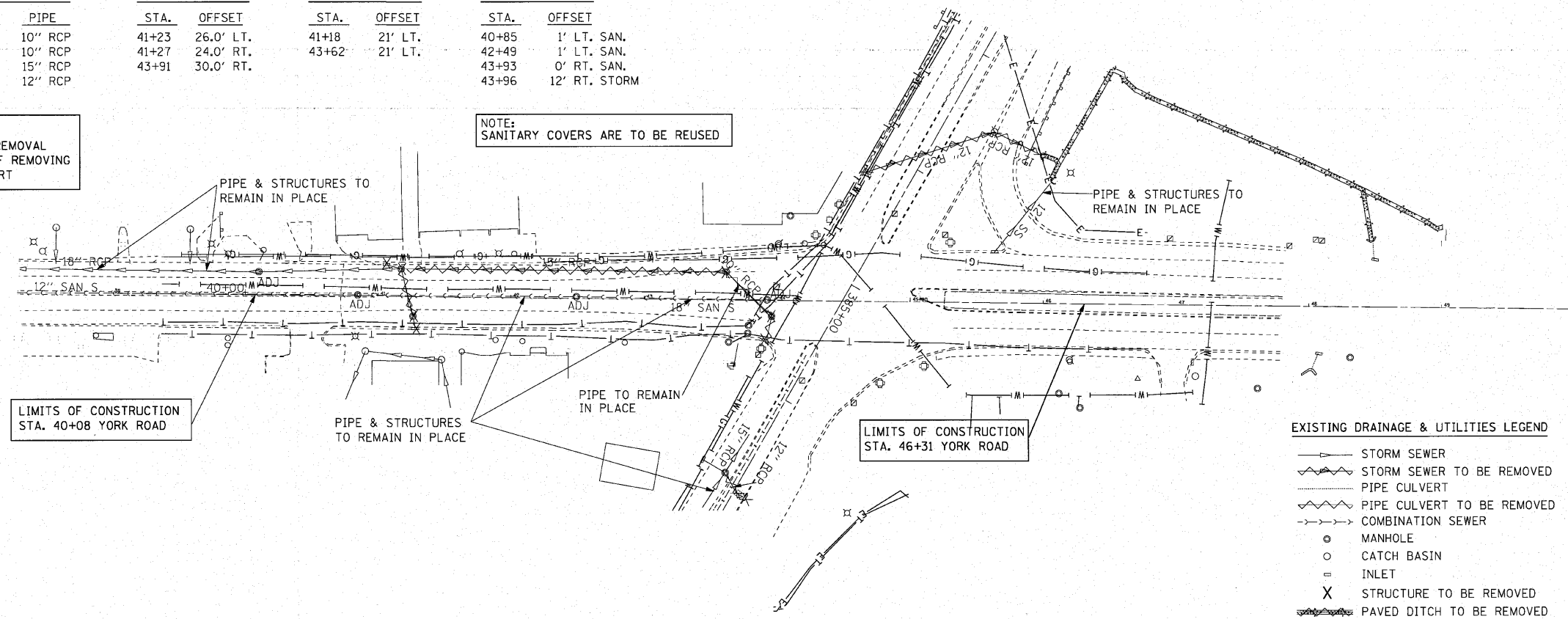
INLET REMOVAL		
STA.	OFFSET	
41+23	26.0' LT.	
41+27	24.0' RT.	
43+91	30.0' RT.	

MANHOLE REMOVAL			
STA.	OFFSET		
41+18	21' LT.		
43+62	21' LT.		

ADJUST MANHOLE			
STA.	OFFSET		
40+85	1' LT. SAN.		
42+49	1' LT. SAN.		
43+93	0' RT. SAN.		
43+96	12' RT. STORM		

NOTE:
HEADWALL OR END SECTION REMOVAL IS INCLUDED IN THE COST OF REMOVING THE STORM SEWER OR CULVERT

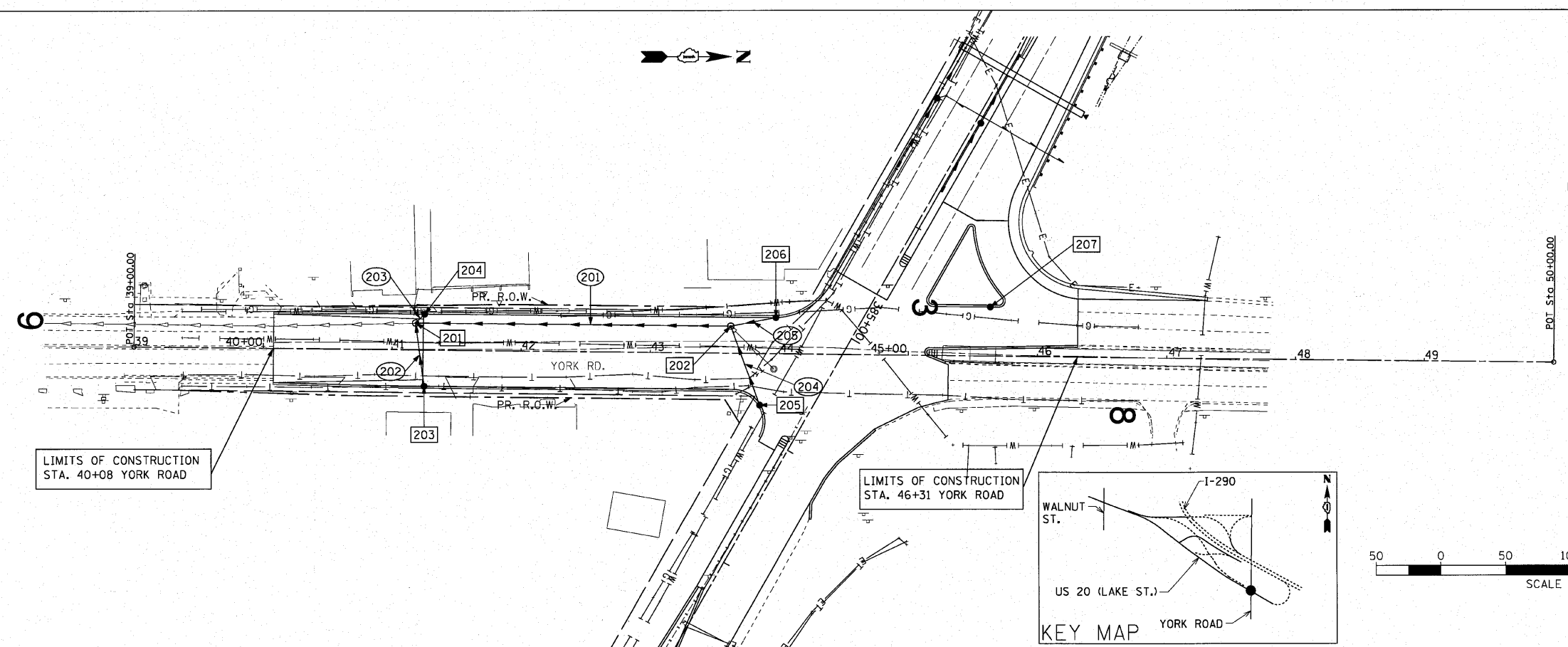
NOTE:
SANITARY COVERS ARE TO BE REUSED



EXISTING DRAINAGE & UTILITIES LEGEND

- STORM SEWER
- - - STORM SEWER TO BE REMOVED
- PIPE CULVERT
- - - PIPE CULVERT TO BE REMOVED
- - - COMBINATION SEWER
- MANHOLE
- CATCH BASIN
- INLET
- X STRUCTURE TO BE REMOVED
- - - PAVED DITCH TO BE REMOVED

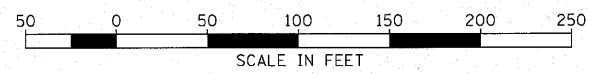
EXISTING YORK ROAD



Scale: 1" = 50'

PROPOSED DRAINAGE & UTILITIES LEGEND

- STORM SEWER
- - - DITCH FLOWLINE
- ▲ CULVERT END SECTION
- MANHOLE
- CATCH BASIN
- INLET
- UNDERDRAIN OUTLET
- xx STRUCTURE NO. SEE STRUCTURE TABLE
- xx PIPE NO. SEE PIPE TABLE

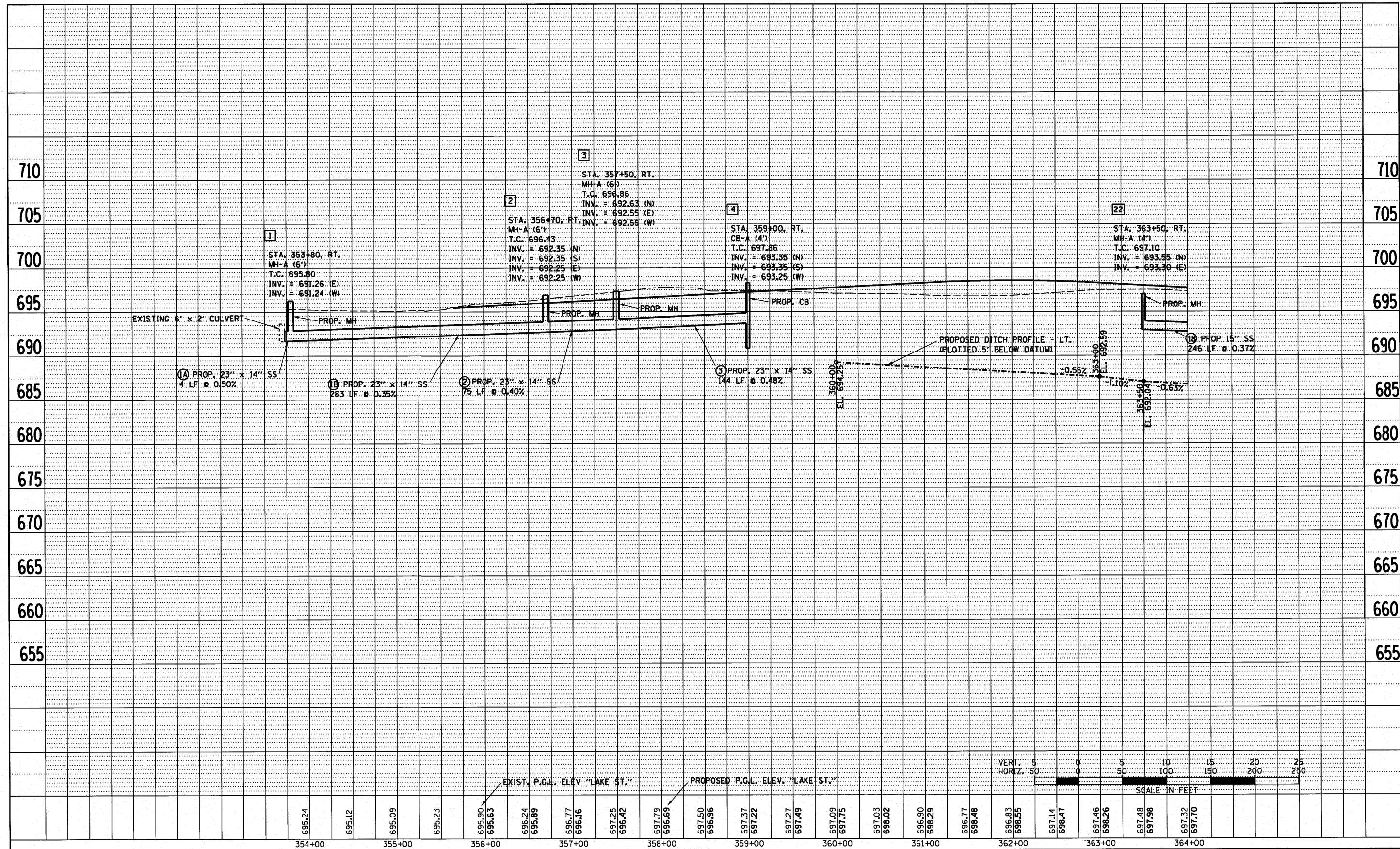


PROPOSED YORK ROAD

FILE NAME = DU.plandgn	USER NAME = ID0T(ang)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	YORK ROAD DRAINAGE AND UTILITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DU.plandgn		DRAWN - PRH	REVISED -			3537	(4Y & 22-3R-2)	DUPAGE	284	101	
PLOT SCALE = 1"=50'		CHECKED - SRG	REVISED -			CONTRACT NO. 62093					
PLOT DATE = 3/22/2010		DATE - 1/18/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

DATE	
BY	
PLAN	
REVISIONS	
ALIGNED	
CHECKED	
NO. DATE	
NOTE BOOK	
NO.	
CADD FILE NAME	

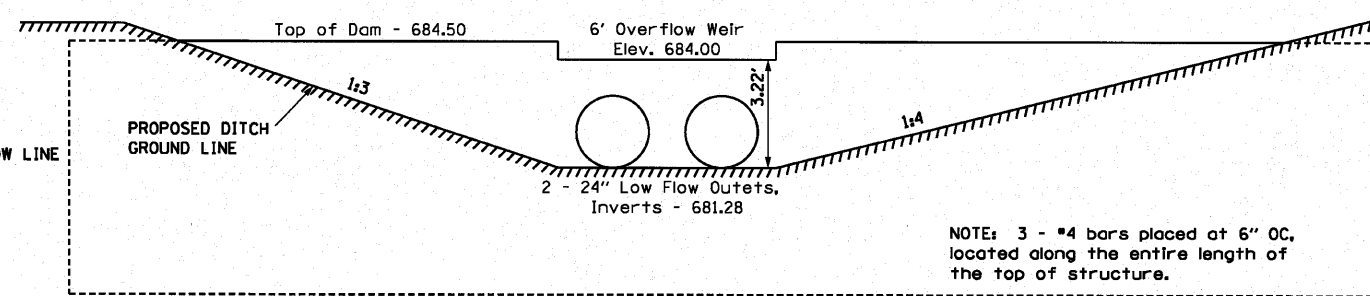
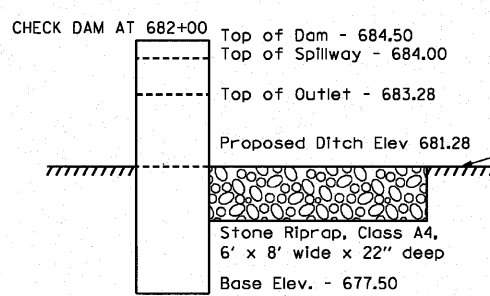
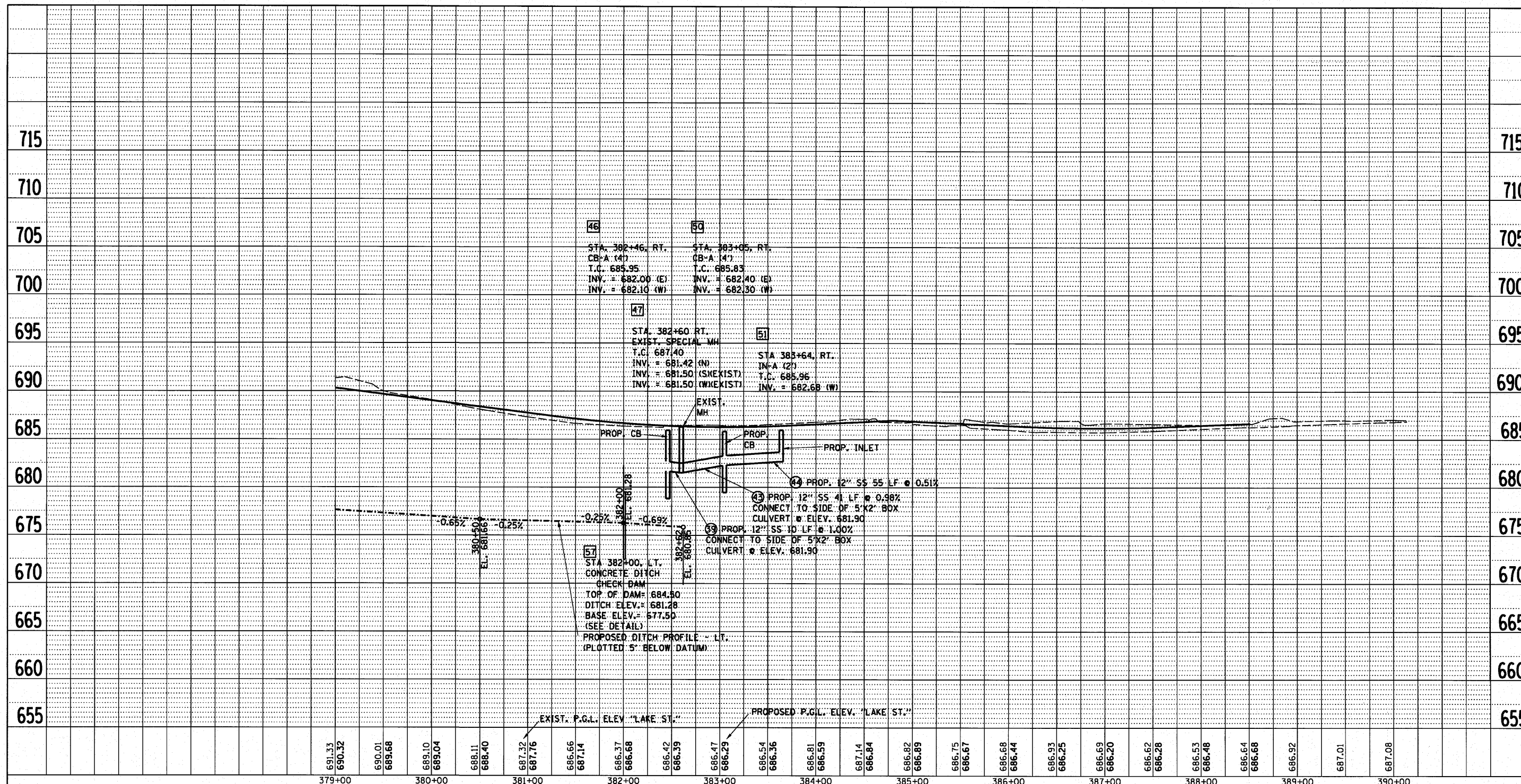
DATE	
BY	
PROFILE	
REVISIONS	
GRADES CHECKED	
NO. DATE	
NOTE BOOK	
NO.	
CADD FILE NAME	



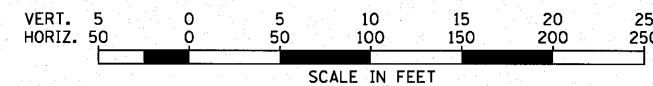
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#FILE#		DRAWN - PRH	REVISED -		SCALE: AS NOTED	SHEET NO. 102 OF	SHEETS	STA. 355+65	TO STA. 364+00	3537	(4Y & 22-3R-2)	DUPAGE	284	102
PLOT SCALE = 1"=50'		CHECKED - SRC	REVISED -											
PLOT DATE = #DATE*		DATE - 1/18/10	REVISED -											
CONTRACT NO. 62093 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT														

PLAN	DESIGNED	CHECKED	DATE
NO.	PLOTTED	ALIGNED	
NOTE BOOK	NO.	NO.	
NO.	NO.	NO.	

PROFILE	DESIGNED	CHECKED	DATE
NO.	PLOTTED	ALIGNED	
NOTE BOOK	NO.	NO.	
NO.	NO.	NO.	



DETAIL
CHECK DAM AT
382+00, LT.



NOTE: 3 - #4 bars placed at 6" OC,
located along the entire length of
the top of structure.

FILE NAME = DU_profile.dgn
FILEL

USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = 1"=50'	DRAWN - PRH	REVISED -
PLOT DATE = *DATE*	CHECKED - SRG	REVISED -
	DATE - 1/18/10	REVISED -

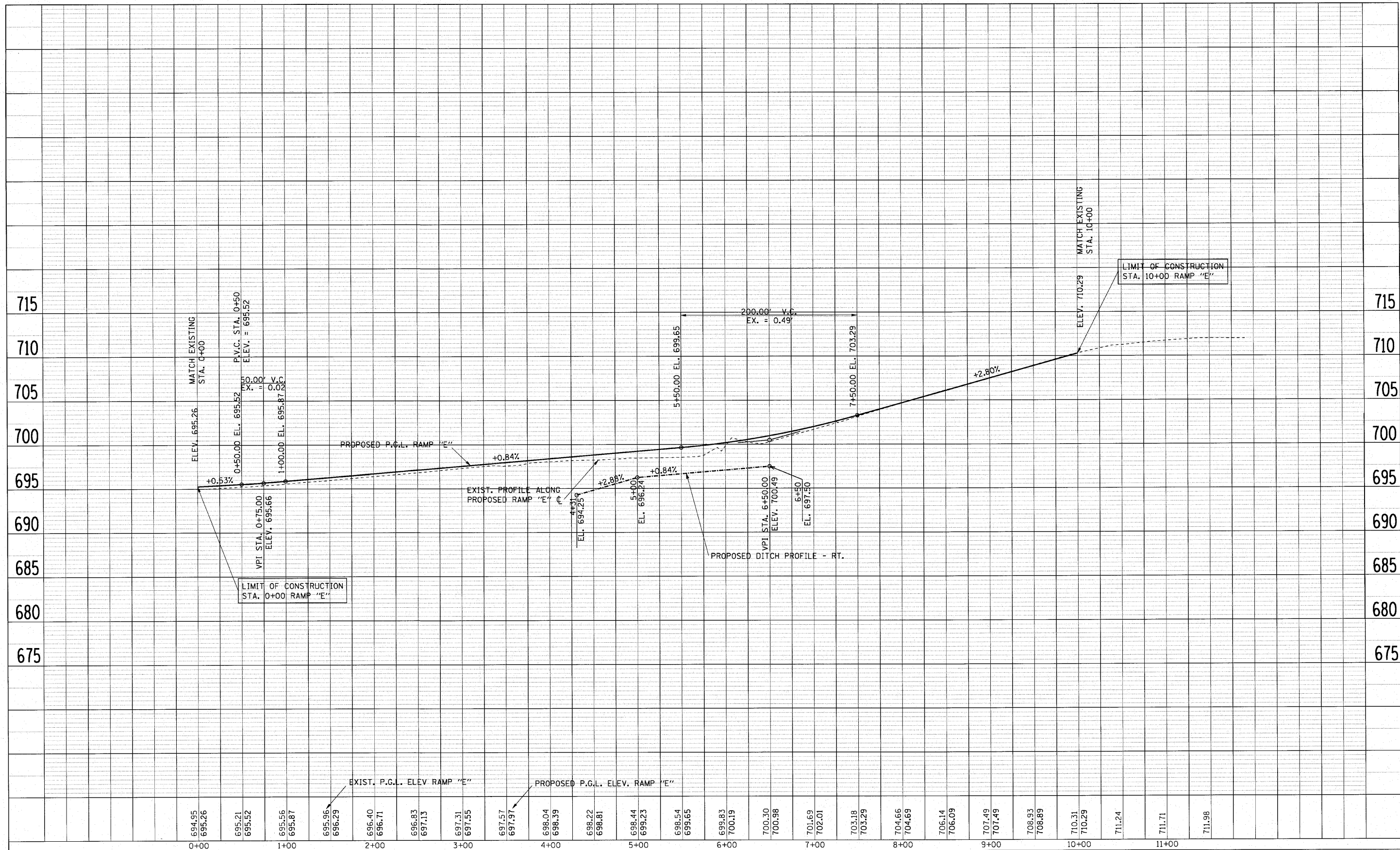
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20 (LAKE STREET)
DRAINAGE & UTILITY PROFILE
SCALE: AS NOTED SHEET NO. 104 OF SHEETS STA. 379+00 TO STA. 390+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3JR-2	DUPAGE	284	104
CONTRACT NO. 62093				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN SURVEYED BY DATE
 PLOTTED BY DATE
 ALIGNMENT CHECKED BY DATE
 NOTE BOOK NO. CADD FILE NAME

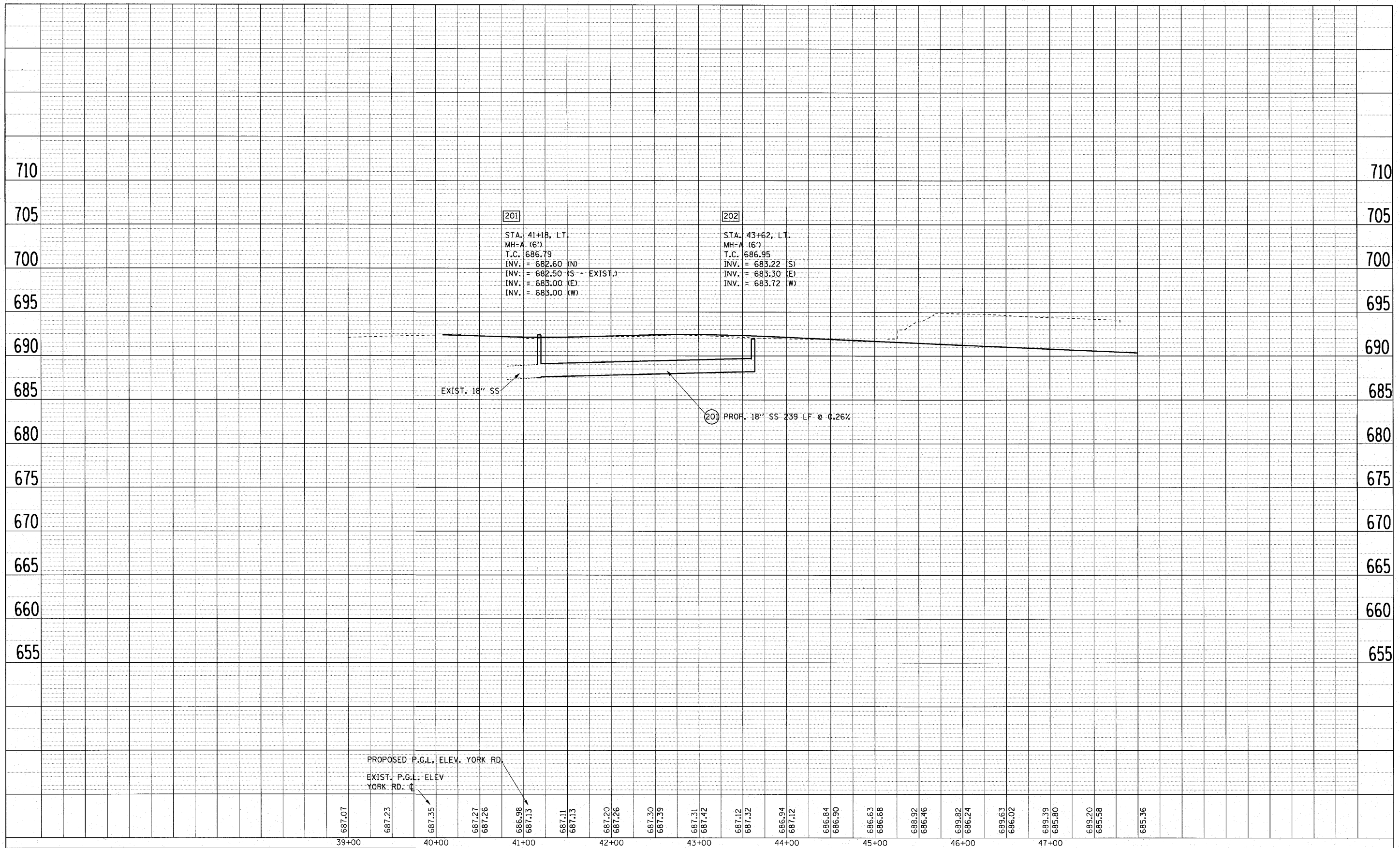
PROFILE SURVEYED BY DATE
 PLOTTED BY DATE
 GRADES CHECKED BY DATE
 NOTE BOOK NO. NOTATIONS CIPRO



FILE NAME = DU_profile.dgn	USER NAME = 1001(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTBOUNE I-290 OFF RAMP - RAMP "E"			F.A.U. RTE. 3537	SECTION (4Y & 22-3)R-2	COUNTY	TOTAL SHEETS 284	SHEET NO. 105
DU_profile.dgn		DRAWN - PRH	REVISED -		DRAINAGE & UTILITY PROFILE			DUPAGE		CONTRACT NO. 62093		
PLOT SCALE = 1"=50'		CHECKED - SRG	REVISED -		SCALE: AS NOTED			FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
PLOT DATE = 1/13/2010		DATE - 1/18/10	REVISED -		SHEET NO. 105 OF SHEETS			STA. 0+00 TO STA. 10+00				

PLAN
 SURVEYED _____
 ALIGNED _____
 CHECKED _____
 DATE _____
 BY _____
 NOTE BOOK NO. _____
 PLOTTING DATE _____

PROFILE
 SURVEYED _____
 GRADES CHECKED _____
 DATE _____
 BY _____
 NOTE BOOK NO. _____
 PLOTTING DATE _____



201
 STA. 41+18, LT.
 MH-A (6')
 T.C. 686.79
 INV. = 682.60 (N)
 INV. = 682.50 (S - EXIST.)
 INV. = 683.00 (E)
 INV. = 683.00 (W)

202
 STA. 43+62, LT.
 MH-A (6')
 T.C. 686.95
 INV. = 683.22 (S)
 INV. = 683.30 (E)
 INV. = 683.72 (W)

EXIST. 18" SS

201 PROF. 18" SS 239 LF @ 0.26%

PROPOSED P.C.L. ELEV. YORK RD.
 EXIST. P.C.L. ELEV. YORK RD. @

FILE NAME = DU_prof1.e.dgn	USER NAME = IDOT\eng	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	YORK ROAD DRAINAGE & UTILITY PROFILE			F.A.U. RTE. = 3537	SECTION = (4Y & 22-3)R-2	COUNTY = DUPAGE	TOTAL SHEETS = 284	SHEET NO. = 107
		DRAWN - PRH	REVISED -		SCALE: AS NOTED	SHEET NO. 107 OF	SHEETS	STA. 39+27	TO STA. 47+31	CONTRACT NO. 62093		
		CHECKED - SRG	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 1/18/10	REVISED -									

Part of the Northwest 1/4 of Section 35, Township 40 North, Range 11, East of the Third Principal Meridian, DuPage Co. Illinois.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN		AREA IN EXISTING R.O.W. ACRES	REMAINDER ACRES	EASEMENT AREA		PURPOSE OF EASEMENT	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.			ACRES	SQ. FT.		
1CU0092	Suburban Bank and Trust Company	1.011	0.054			0.957				22001-140737
1CU0100B 1CU0100 TE2	Suburban Bank & Trust Company, as trustee, under Trust No. 1004 dated May 01, 1996	4.410	0.001	56		4.409*	0.010	450	Driveway Construction	
1CU0102 1CU0102 TE	Suburban Bank & Trust Company, as trustee, under Trust No. 1124 dated August 01, 1996	1.288	0.047			1.241	0.024		Construction	IED 24 COND
1CU0103 1CU0103 TE	Kenneth James Miller and Linda Karylin Miller	0.318	0.016			0.302	0.011		Construction	22001-127518

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PROPERTY LINE (SURVEY)
PLATTED LOT LINE (RECORD)
EXISTING RIGHT OF WAY LINE
CENTER LINE (EXST. R.O.W.)
PROPOSED BASELINE (CONSTRUCTION)
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED/COMPUTED DIMENSION
RECORD DIMENSION
METRIC DIMENSION

EXISTING BUILDING

SCALE 1"=30'

ALL BEARINGS ARE BASED ON ILLINOIS PLANE COORDINATE SYSTEM EAST ZONE GRID.

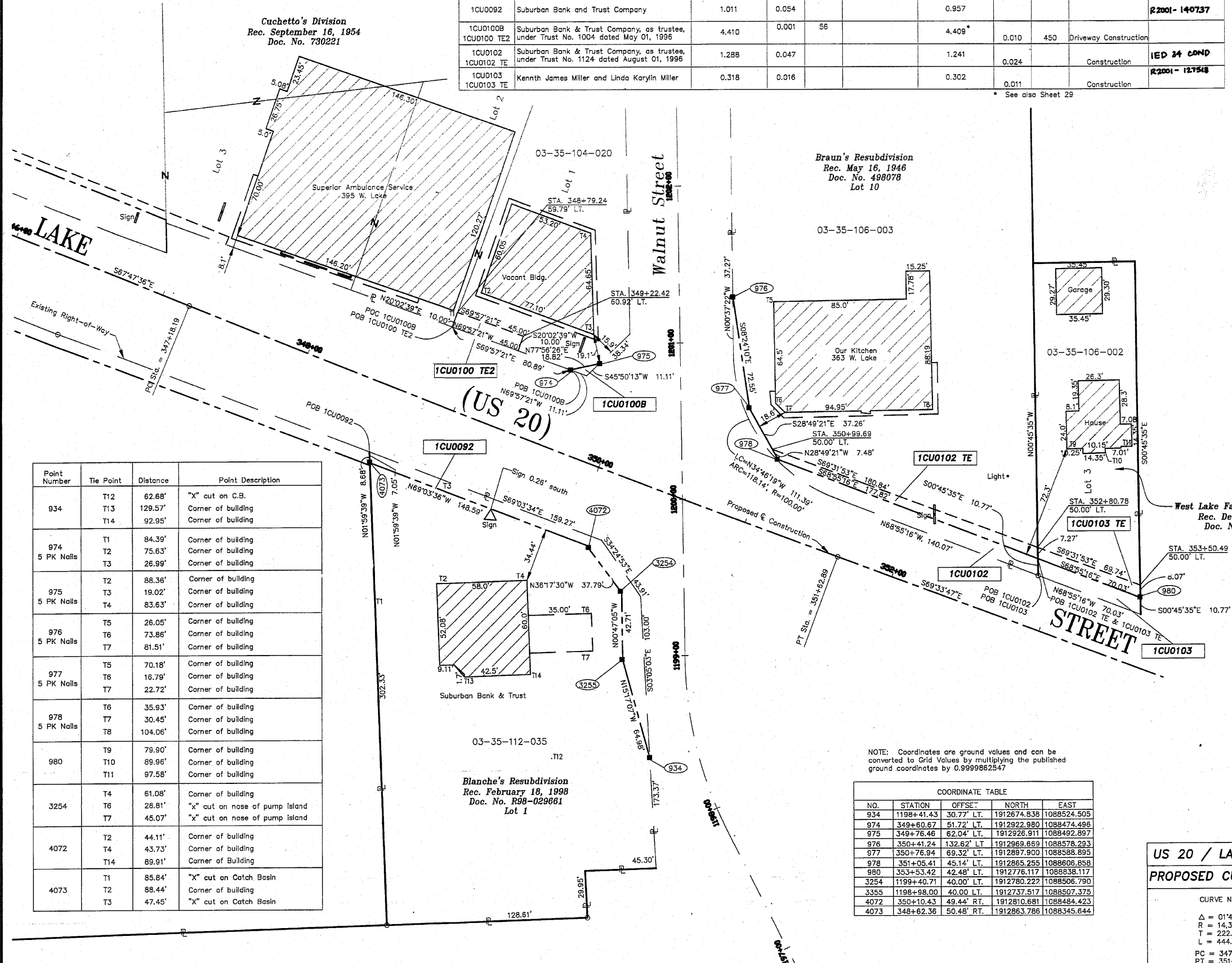
○ IRON PIPE OR ROD FOUND
● REPLACED AFTER CONSTRUCTION
+ CUT CROSS FOUND OR SET
■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
■ STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED 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 STD 2135 (TO BE SET BY OTHERS)

STATE OF ILLINOIS }
COUNTY OF COOK }SS

THIS IS TO CERTIFY THAT I, DAVID D. O'BRIEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON, SECTION 35, TOWNSHIP 40 N., RANGE 11 E. OF THE THIRD PRINCIPAL MERIDIAN, DuPage 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 AT Rolling Meadows ILLINOIS THIS 20 TH DAY OF January, 2000 A.D.

David D. O'Brien
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2545



Point Number	Tie Point	Distance	Point Description
934	T12	62.88'	"X" cut on C.B.
	T13	129.57'	Corner of building
	T14	92.95'	Corner of building
974	T1	84.39'	Corner of building
	T2	75.63'	Corner of building
	T3	26.99'	Corner of building
975	T2	88.36'	Corner of building
	T3	19.02'	Corner of building
	T4	83.63'	Corner of building
976	T5	26.05'	Corner of building
	T6	73.86'	Corner of building
	T7	81.51'	Corner of building
977	T5	70.18'	Corner of building
	T6	16.79'	Corner of building
	T7	22.72'	Corner of building
978	T6	35.93'	Corner of building
	T7	30.45'	Corner of building
	T8	104.06'	Corner of building
980	T9	79.90'	Corner of building
	T10	89.96'	Corner of building
	T11	97.58'	Corner of building
3254	T4	61.08'	Corner of building
	T6	28.81'	"x" cut on nose of pump island
	T7	45.07'	"x" cut on nose of pump island
4072	T2	44.11'	Corner of building
	T4	43.73'	Corner of building
	T14	89.91'	Corner of Building
4073	T1	85.84'	"X" cut on Catch Basin
	T2	88.44'	Corner of building
	T3	47.45'	"X" cut on Catch Basin

NOTE: Coordinates are ground values and can be converted to Grid Values by multiplying the published ground coordinates by 0.99999862547

COORDINATE TABLE

NO.	STATION	OFFSET	NORTH	EAST
934	1198+41.43	30.77' LT.	1912674.838	1088524.505
974	349+60.67	51.72' LT.	1912922.980	1088474.496
975	349+76.46	62.04' LT.	1912926.911	1088492.897
976	350+41.24	132.62' LT.	1912969.669	1088578.293
977	350+76.94	69.32' LT.	1912897.900	1088588.895
978	351+05.41	45.14' LT.	1912865.255	1088606.858
980	353+53.42	42.48' LT.	1912776.117	1088638.117
3254	1199+40.71	40.00' LT.	1912780.222	1088506.790
3355	1198+98.00	40.00' LT.	1912737.517	1088507.375
4072	350+10.43	49.44' RT.	1912810.681	1088484.423
4073	348+62.36	50.48' RT.	1912863.786	1088345.644

**US 20 / LAKE STREET
PROPOSED CURVE DATA**

CURVE NO. 10

Δ = 01°46'11" Lt.
R = 14,397.18'
T = 222.37'
L = 444.70'

PC = 347+18.19
PT = 351+62.89

Mail to: Illinois Department of Transportation
ATTN: Land Acquisition - 3rd Floor
201 W. Center Court
Schaumburg, IL 60196-1096

BRW
ADAMS & MOORE GROUP COMPANY
1701 Oak Road, Suite 1000
Rolling Meadows, Illinois 60018
(847)364-8800 FAX (847)364-8818

**PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US 20 FAU 3537 (US 20) LAKE STREET
DuPage COUNTY**

PROJECT JOB NO. R-91-013-99
STATION 346+00 TO STATION 353+00
SCALE 1"=30' SHEET 31 OF 35

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

REVISION DATE

Part of the Northeast 1/4 of Section 35, Township 40 North, Range 11, East of the Third Principal Meridian, DuPage Co. Illinois.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN		AREA IN EXISTING R.O.W. ACRES	REMAINDER ACRES	EASEMENT AREA		PURPOSE OF EASEMENT	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.			ACRES	SQ. FT.		
1CU0117	Forest Park National Bank & Trust Company, as trustee, under Trust No. 981104 dated December 03, 1998	0.696	0.004	158		0.692	-	-		

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
PROPERTY LINE (SURVEY)
PLATTED LOT LINE (RECORD)
EXISTING RIGHT OF WAY LINE
CENTER LINE (EXST. R.O.W.)
PROPOSED BASELINE (CONSTRUCTION)
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED/COMPUTED DIMENSION
RECORD DIMENSION
METRIC DIMENSION
EXISTING BUILDING

SCALE 1"=30'

ALL BEARINGS ARE BASED ON ILLINOIS PLANE COORDINATE SYSTEM EAST ZONE GRID.

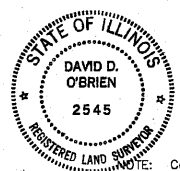
○ IRON PIPE OR ROD FOUND
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■ STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)



STATE OF ILLINOIS }
COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, DAVID D. O'BRIEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON, SECTION 35, TOWNSHIP 40 N., RANGE 11 E. OF THE THIRD PRINCIPAL MERIDIAN, DuPage 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 AT Rolling Meadows, ILLINOIS THIS 20th DAY OF January, 2000 A.D.



Point Number	Tie Point	Distance	Point Description
935	T1	76.77'	Corner of building
	T2	23.23'	Corner of building
	T3	59.76'	Corner of building
936	T2	71.95'	Corner of building
	T3	82.11'	Corner of building
	T4	82.93'	Corner of building

NOTE: Coordinates are ground values and can be converted to Grid Values by multiplying the published ground coordinates by 0.9999862547

COORDINATE TABLE				
NO.	STATION	OFFSET	NORTH	EAST
935	375+63.00	86.37' RT.	1911507.523	1090636.450
936	376+26.11	95.00' RT.	1911463.886	1090682.857

Mail to: Illinois Department of Transportation
ATTN: Land Acquisition - 3rd Floor
201 W. Center Court
Schaumburg, IL 60196-1096



US 20 / LAKE STREET
PROPOSED CURVE DATA

CURVE NO. 13
Δ = 5°35'20" Lt.
R = 3,075.65'
T = 150.12'
L = 300.00'
PC = 377+36.15
PT = 380+36.16

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US 20 FAU 3537 (US 20) LAKE STREET
DuPage COUNTY

PROJECT STATION 374+00 TO STATION 377+00
JOB NO. R-91-013-99
SCALE 1"=30' SHEET 33 OF 35

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

Part of the Southwest 1/4 of Section 36, Township 40 North, Range 11, East of the Third Principal Meridian, DuPage Co. Illinois.
Part of the Southeast 1/4 of Section 35, Township 40 North, Range 11, East of the Third Principal Meridian, DuPage Co. Illinois.

LEGEND

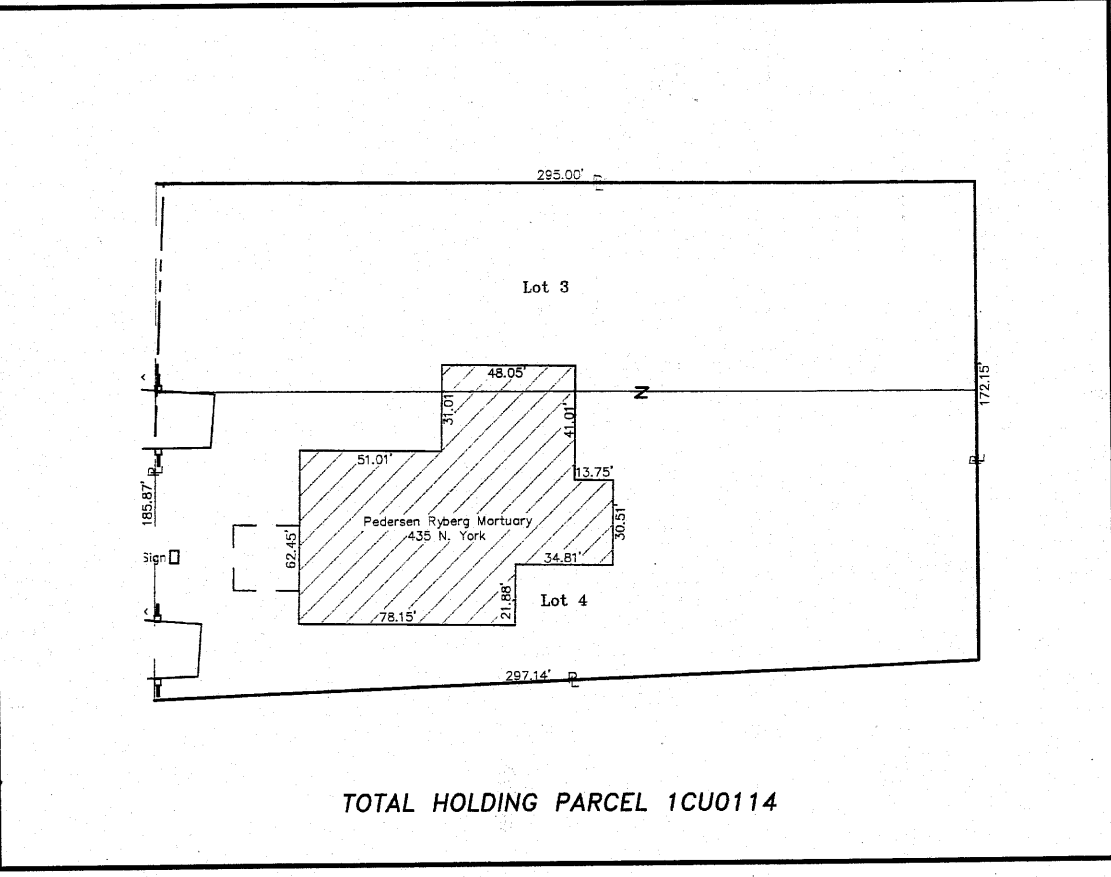
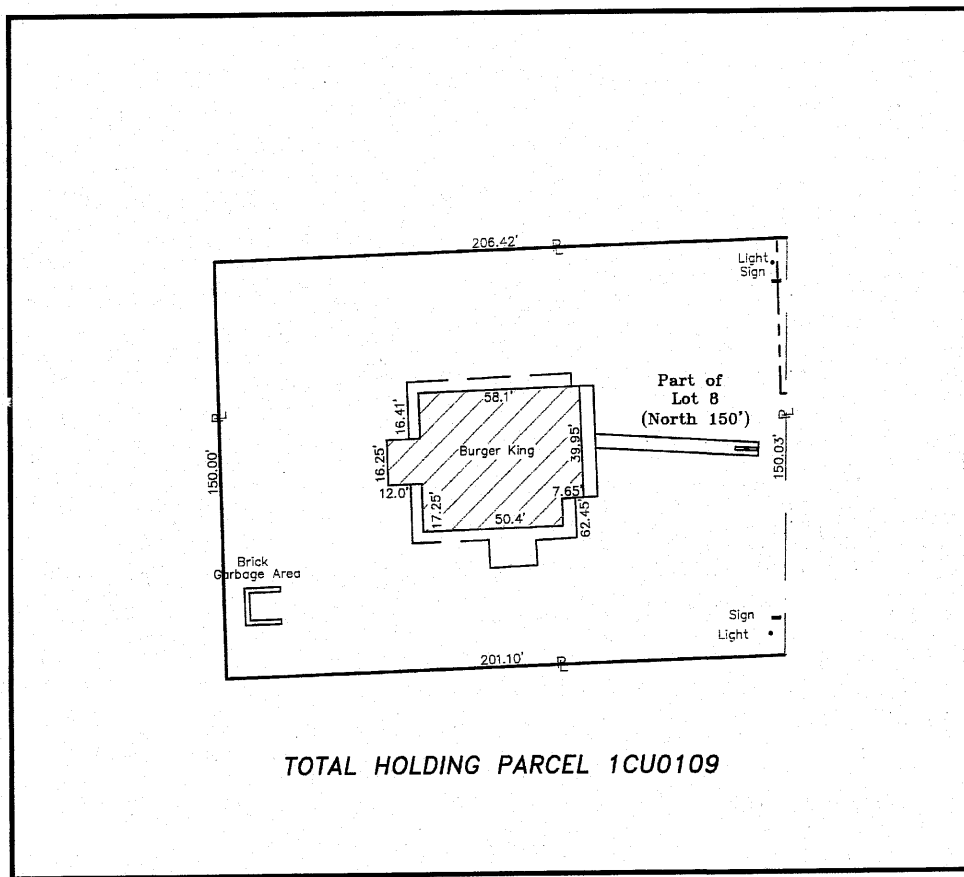
SECTION LINE
QUARTER SECTION LINE
PROPERTY LINE (SURVEY)
PLATTED LOT LINE (RECORD)
EXISTING RIGHT OF WAY LINE
CENTER LINE (EXST. R.O.W.)
PROPOSED BASELINE (CONSTRUCTION)
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED/COMPUTED DIMENSION
RECORD DIMENSION
METRIC DIMENSION
EXISTING BUILDING

SECTION CORNER
QUARTER SECTION CORNER

SCALE 1"=30'

ALL BEARINGS ARE BASED ON ILLINOIS PLANE COORDINATE SYSTEM EAST ZONE GRID.
REPLACED AFTER CONSTRUCTION

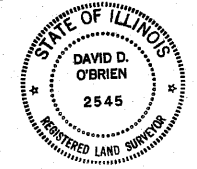
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■ STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
● PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)



STATE OF ILLINOIS }
COUNTY OF COOK } SS

THIS IS TO CERTIFY THAT I, DAVID D. O'BRIEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON, SECTION 35 & 36, TOWNSHIP 40 N., RANGE 11 E. OF THE THIRD PRINCIPAL MERIDIAN, DuPage 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 AT Rolling Meadows, ILLINOIS THIS 20th DAY OF January, 2000 A.D.
David D. O'Brien
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2545



Mail to: Illinois Department of Transportation
ATTN: Land Acquisition - 3rd Floor
201 W. Center Court
Schaumburg, IL 60196-1096

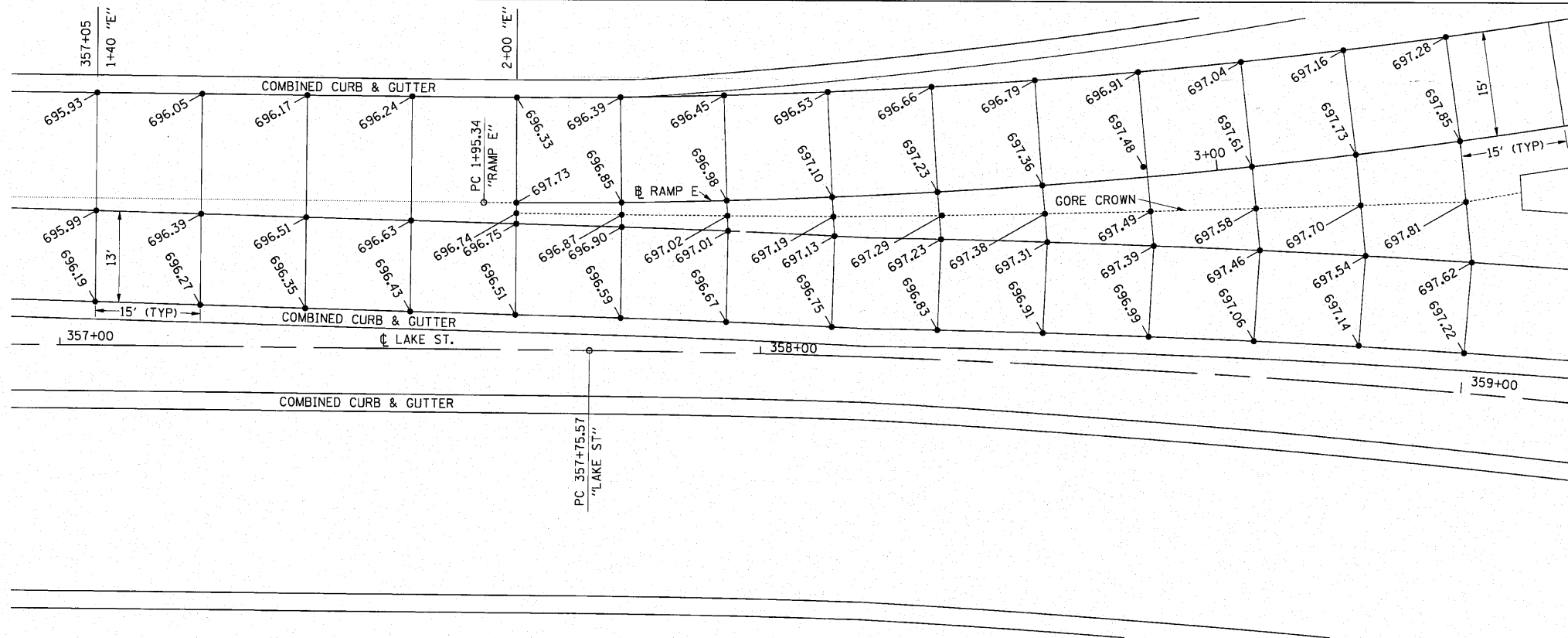
NOTE: Coordinates are ground values and can be converted to Grid Values by multiplying the published ground coordinates by 0.9999862547

DCM BRW
ADAMS & MOORE GROUP COMPANY
1701 Golf Road, Suite 1000
Rolling Meadows, Illinois 60018
(847)364-8800 FAX (847)364-8818

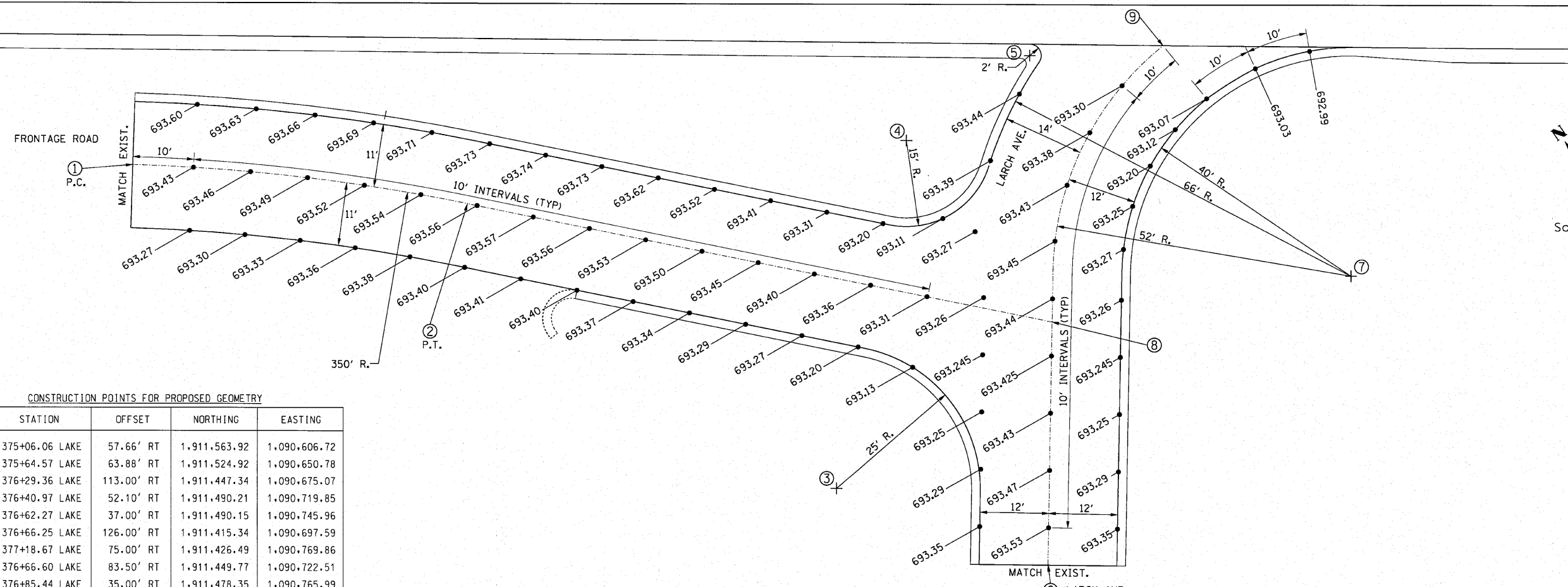
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US 20 FAU 3537 (US 20) LAKE STREET
DuPage COUNTY
TOTAL HOLDING JOB NO. R-91-013-99
SCALE 1"=30' SHEET 35 OF 35

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

REVISION DATE



Scale: 1" = 10'



Scale: 1" = 10'

CONSTRUCTION POINTS FOR PROPOSED GEOMETRY

POINT	STATION	OFFSET	NORTHING	EASTING
①	375+06.06 LAKE	57.66' RT	1,911,563.92	1,090,606.72
②	375+64.57 LAKE	63.88' RT	1,911,524.92	1,090,650.78
③	376+29.36 LAKE	113.00' RT	1,911,447.34	1,090,675.07
④	376+40.97 LAKE	52.10' RT	1,911,490.21	1,090,719.85
⑤	376+62.27 LAKE	37.00' RT	1,911,490.15	1,090,745.96
⑥	376+66.25 LAKE	126.00' RT	1,911,415.34	1,090,697.59
⑦	377+18.67 LAKE	75.00' RT	1,911,426.49	1,090,769.86
⑧	376+66.60 LAKE	83.50' RT	1,911,449.77	1,090,722.51
⑨	376+85.44 LAKE	35.00' RT	1,911,478.35	1,090,765.99

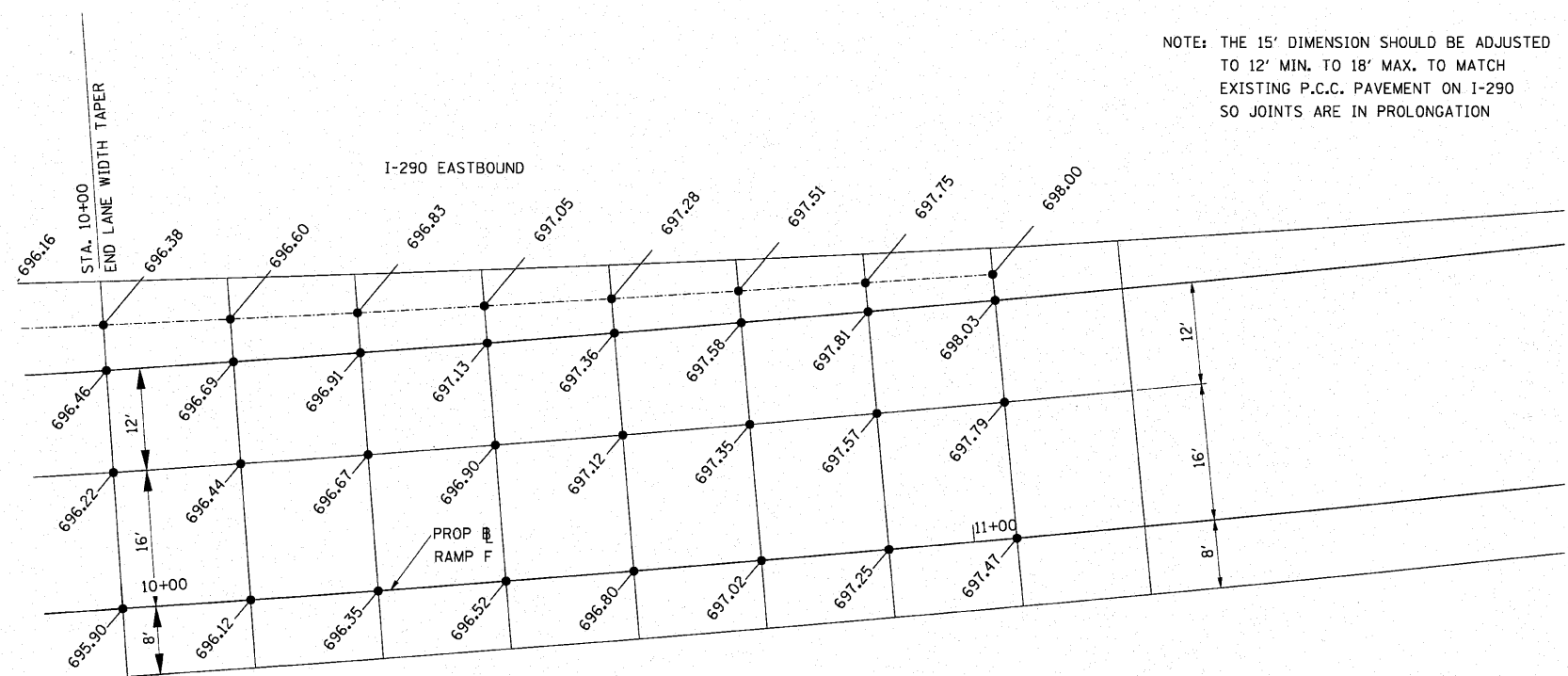
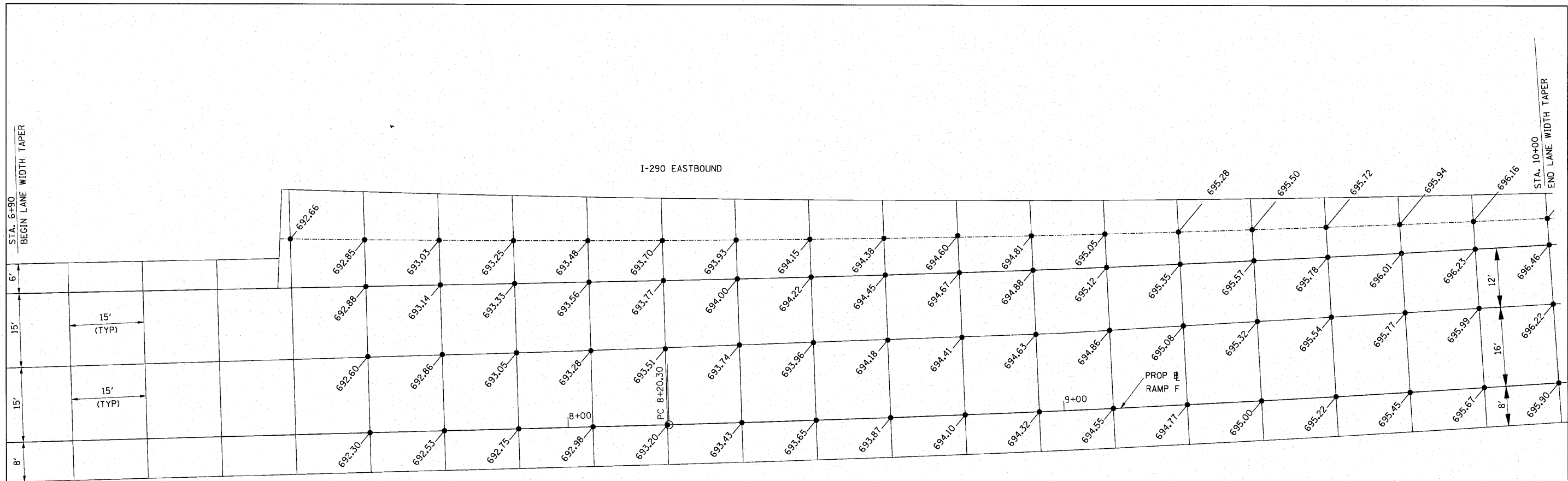
FILE NAME = 022_spt.dgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -
		DRAWN - BLV	REVISED -
		CHECKED - SRG	REVISED -
		DATE - 1/18/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

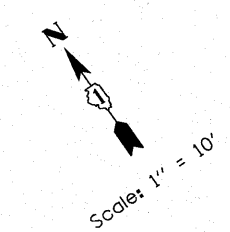
RAMP "E" LARCH AVE.
JOINT DETAILS/SPECIAL DETAILS

SCALE: 1"=10' SHEET NO. 112 OF SHEETS STA. TO STA.

F.A.J. RTE. 3537	SECTION (4Y & 22-3)R-2	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 112
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62093	



NOTE: THE 15' DIMENSION SHOULD BE ADJUSTED TO 12' MIN. TO 18' MAX. TO MATCH EXISTING P.C.C. PAVEMENT ON I-290 SO JOINTS ARE IN PROLONGATION



FILE NAME = 0201.spot.dgn

USER NAME = 1001(ang)
 PLOT SCALE = 10.0000' / 1" =
 PLOT DATE = 1/14/2010

DESIGNED -
 DRAWN - BLV
 CHECKED - SRG
 DATE - 1/18/10

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP "F" @ I-290
 JOINT DETAILS/SPECIAL DETAILS**

SCALE: 1"=10' SHEET NO. 114 OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3R-2)	DUPAGE	284	114
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62093	

PAVEMENT MARKING GENERAL NOTES

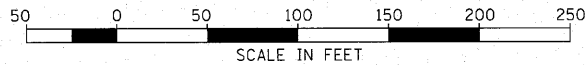
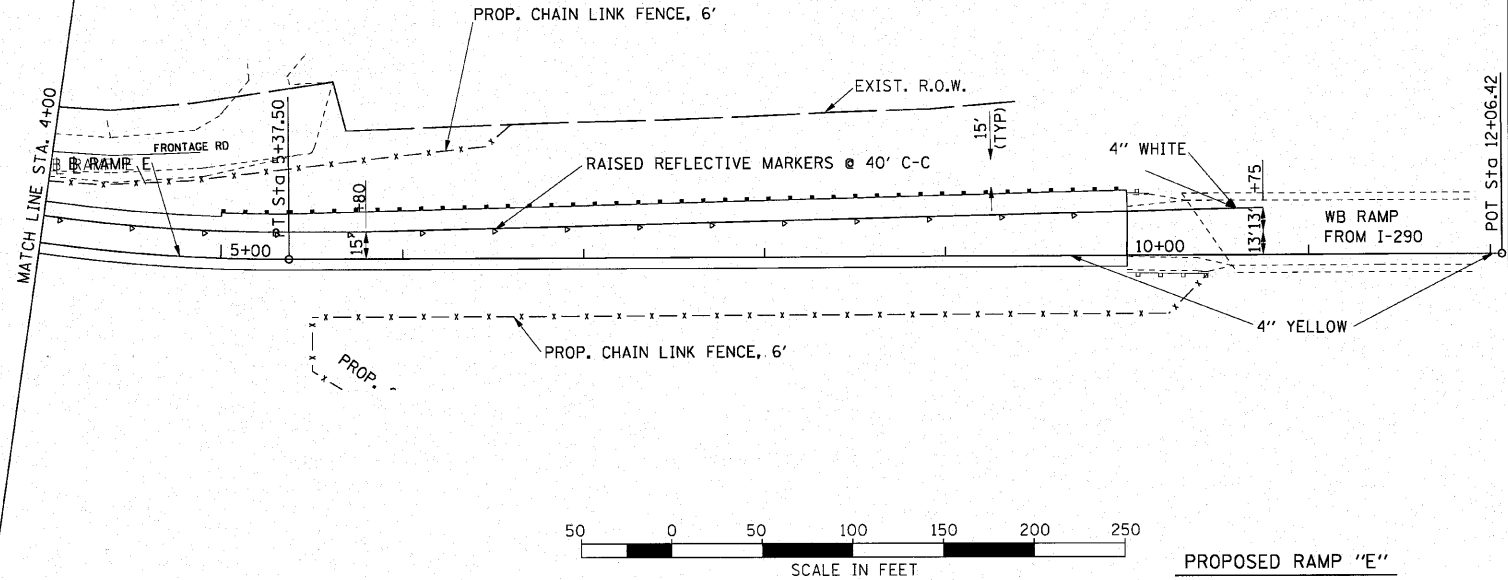
ALL PAVEMENT MARKING ON FINAL CONCRETE SURFACES SHALL BE POLYUREA PAINT.

ALL PAVEMENT MARKING ON FINAL HOT-MIX ASPHALT SURFACES SHALL BE THERMOPLASTIC.

REPLACE ALL PAVEMENT MARKINGS REMOVED DURING STAGING AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

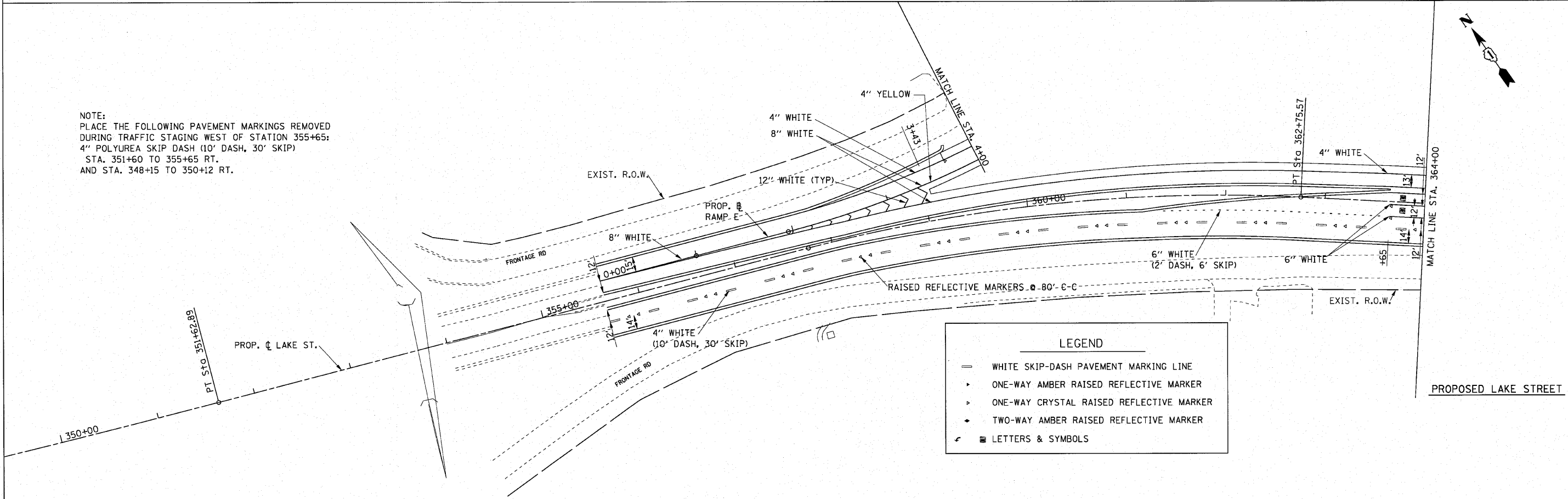
LANDSCAPING PLAN GENERAL NOTES

THE CONTRACTOR SHALL CONTACT FABIOLA QUIROZ OF THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4596 AT LEAST 72 HOURS PRIOR TO PLANTING FOR LAYOUT OF LANDSCAPE ITEMS



PROPOSED RAMP "E"

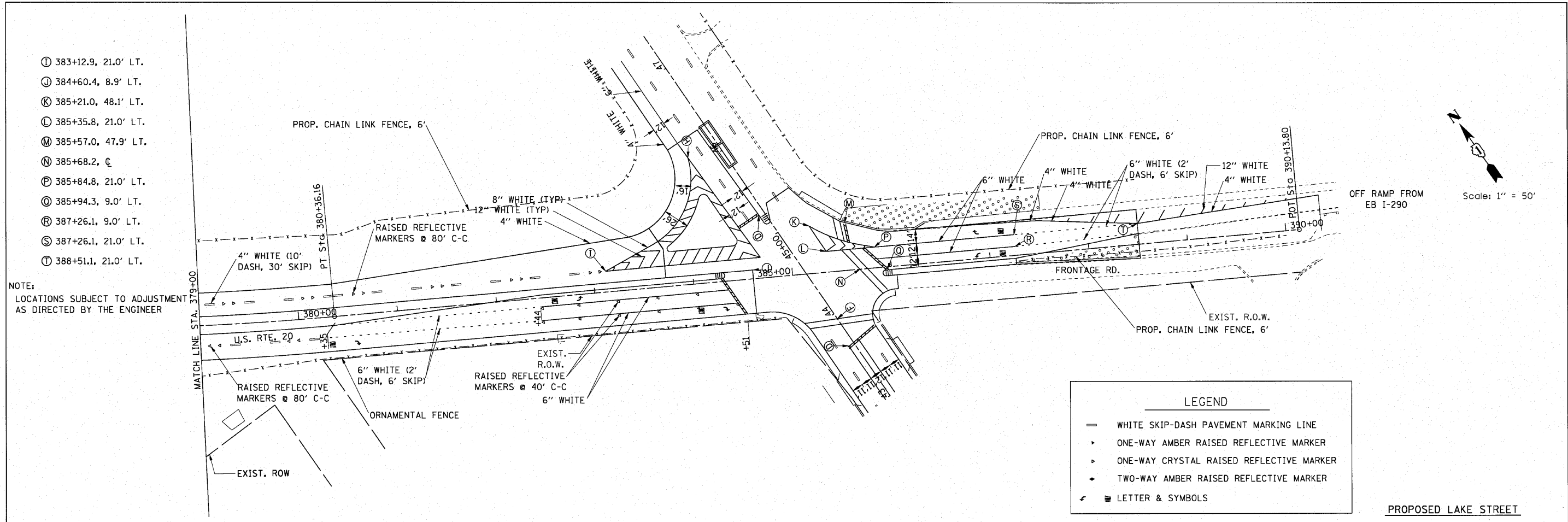
NOTE:
PLACE THE FOLLOWING PAVEMENT MARKINGS REMOVED DURING TRAFFIC STAGING WEST OF STATION 355+65:
4" POLYUREA SKIP DASH (10' DASH, 30' SKIP)
STA. 351+60 TO 355+65 RT.
AND STA. 348+15 TO 350+12 RT.



LEGEND

- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ▷ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ☐ LETTERS & SYMBOLS

FILE NAME = 201_pvmr_mark.dgn	USER NAME = Matt Ramp for JDOT V8	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) AND RAMP "E" PAVEMENT MARKING & LANDSCAPING PLAN	F.A.U. RTE. = 3537	SECTION = (4Y & 22-3IR-2)	COUNTY = DUPAGE	TOTAL SHEETS = 284	SHEET NO. = 115
	PLOT SCALE = 50.0000' / in.	CHECKED - SRG	REVISED -			SCALE: 1"=50'	SHEET NO. 115 OF SHEETS	STA. 355+65 TO STA. 364+00	FED. ROAD DIST. NO. = ILLINOIS FED. AID PROJECT	CONTRACT NO. 62093
PLOT DATE = 4/23/2010	DATE = 1/18/10	REVISED -	REVISED -							



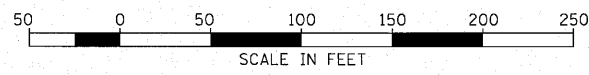
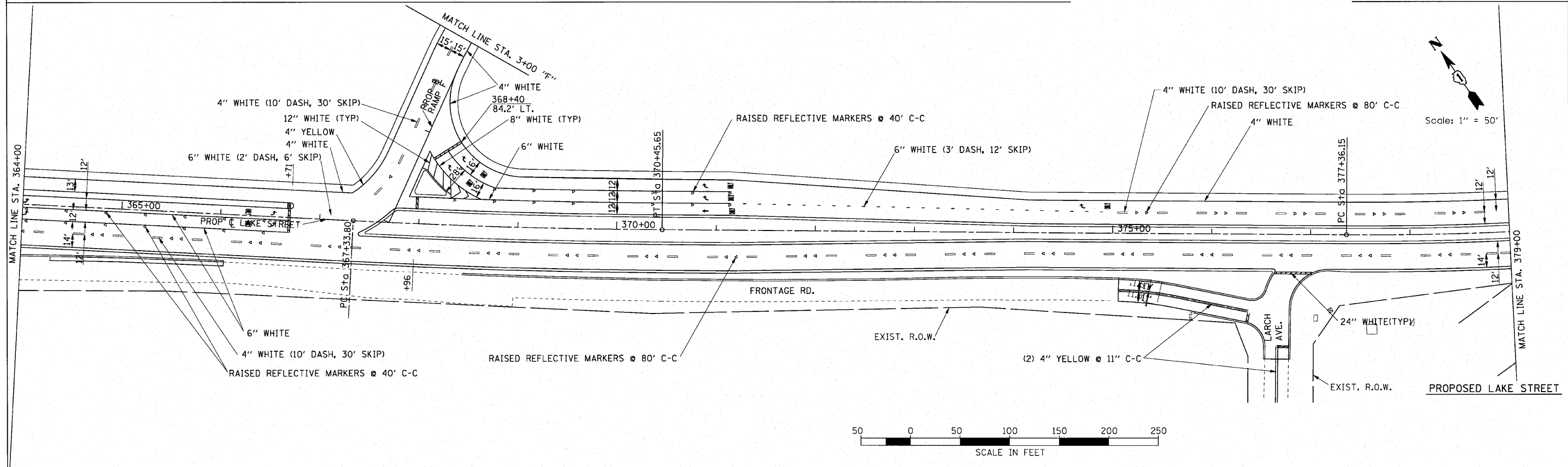
- ⓐ 383+12.9, 21.0' LT.
- ⓑ 384+60.4, 8.9' LT.
- ⓒ 385+21.0, 48.1' LT.
- ⓓ 385+35.8, 21.0' LT.
- ⓔ 385+57.0, 47.9' LT.
- ⓕ 385+68.2, 0
- ⓖ 385+84.8, 21.0' LT.
- ⓗ 385+94.3, 9.0' LT.
- ⓓ 387+26.1, 9.0' LT.
- ⓑ 387+26.1, 21.0' LT.
- ⓓ 388+51.1, 21.0' LT.

NOTE:
LOCATIONS SUBJECT TO ADJUSTMENT
AS DIRECTED BY THE ENGINEER

LEGEND

- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ▷ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◀ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ⓐ LETTER & SYMBOLS

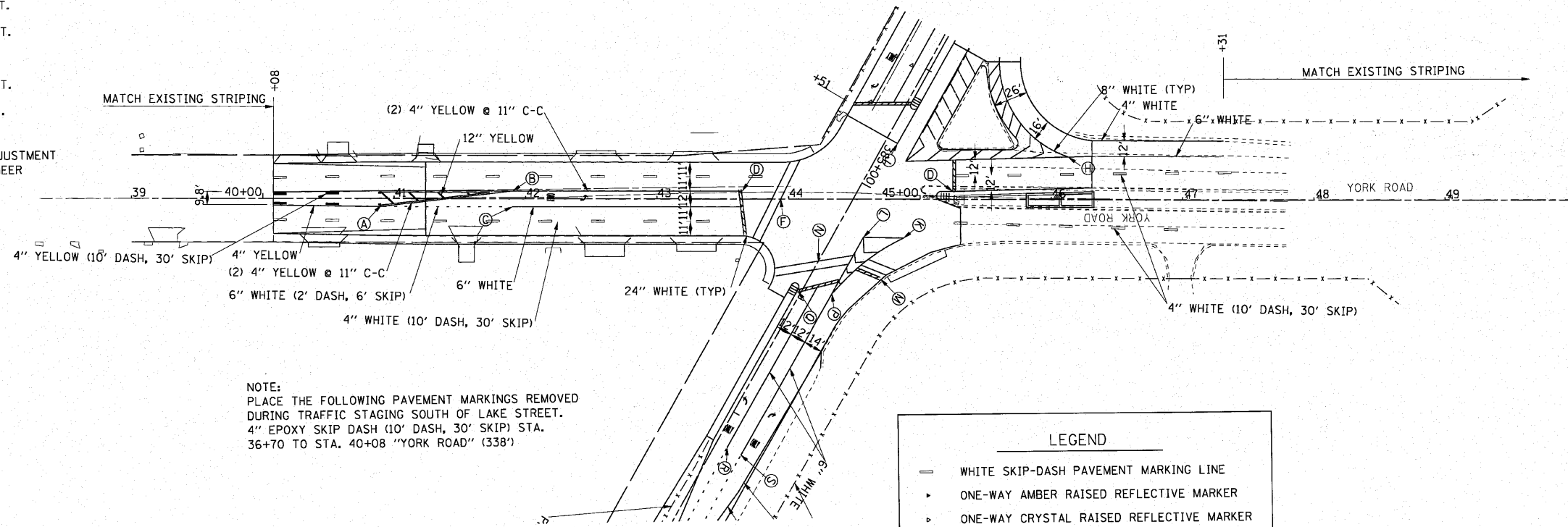
Scale: 1" = 50'



FILE NAME = 001_pvt.mark.dgn	USER NAME = Matt Rempfer IDOT V8	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) PAVEMENT MARKING & LANDSCAPING PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 50.0000' / in.	DRAWN - BLV	REVISED -		SCALE: 1"=50'	SHEET NO. 116 OF	SHEETS	STA. 364+00	TO STA. 379+00	3537	(4Y & 22-3)R-2	DUPAGE	284	116
	PLOT DATE = 4/23/2010	CHECKED - SRG	REVISED -										CONTRACT NO. 62093	
		DATE - 1/18/10	REVISED -										FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

- (A) 40+90.2, 4.8' RT.
- (B) 41+90.2, 6.0' LT.
- (C) 41+90.0, 6.0' RT.
- (D) 43+65.0, 6.0' LT.
- (E) 43+94.0, C
- (G) 45+25.0, 6.0' LT.
- (H) 46+13, 32.5' LT.

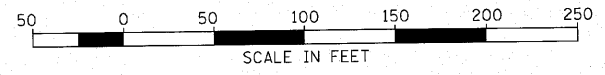
NOTE:
LOCATIONS SUBJECT TO ADJUSTMENT
AS DIRECTED BY THE ENGINEER



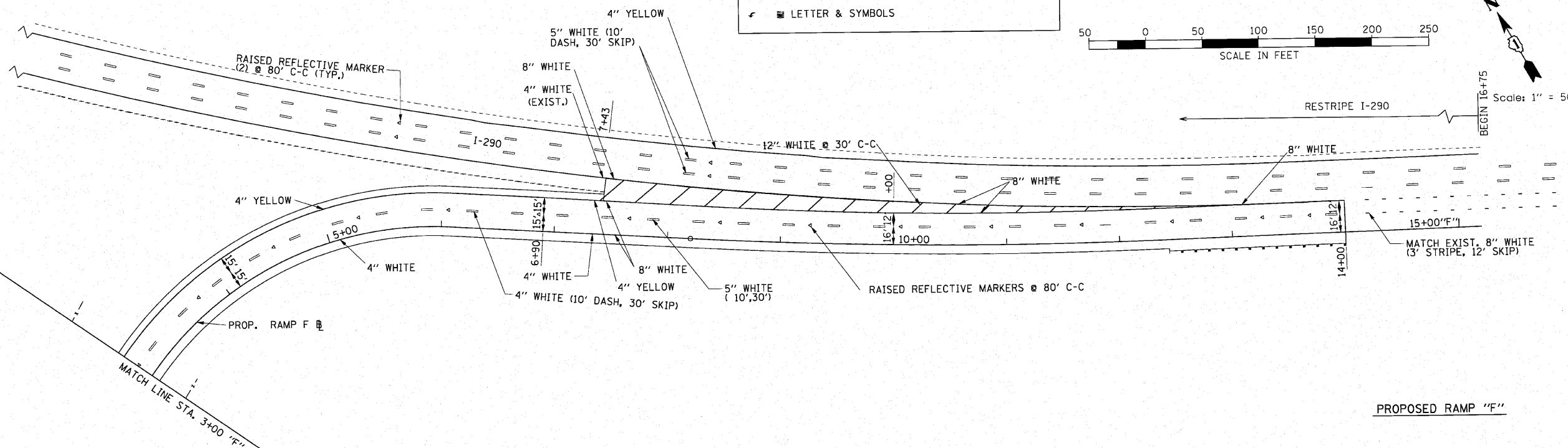
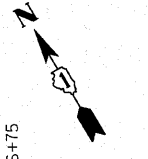
NOTE:
PLACE THE FOLLOWING PAVEMENT MARKINGS REMOVED
DURING TRAFFIC STAGING SOUTH OF LAKE STREET.
4" EPOXY SKIP DASH (10' DASH, 30' SKIP) STA.
36+70 TO STA. 40+08 "YORK ROAD" (338')

LEGEND

- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- LETTER & SYMBOLS



PROPOSED YORK ROAD



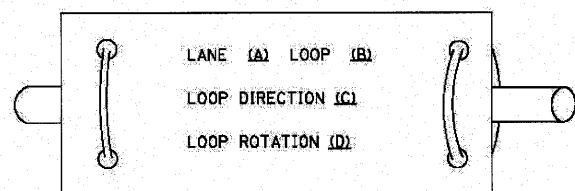
NOTE:
PLACE THE FOLLOWING PAVEMENT MARKINGS ON I-290
REMOVED DURING STAGE I PER IDOT DIST. 1
DETAILS TC-11 & TC-12.
- 4" EPOXY YELLOW STA. 16+75 RAMP "F" ENDING
1710 FT. WEST ALONG I-290 (1710')
- 5" EPOXY WHITE (10' DASH, 30' SKIP) STA. 16+75 RAMP "F"
ENDING 1710' FT. WEST ALONG I-290 (855')
- REPLACEMENT REFLECTORS (88 EACH)

FILE NAME = 201.pvmt.markdgn	USER NAME = Matt.Rampfer- IDOT V8	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING & LANDSCAPING PLAN YORK ROAD AND RAMP "F"	F.A.U. RTE. 3537	SECTION (4Y & 22-3R-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 117
PLOT SCALE = 5/8" = 1'	PLOT DATE = 4/23/2010	DRAWN - BLV	REVISOR -	SCALE: 1"=50'	SHEET NO. 117 OF	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 62093		
		CHECKED - SRG	REVISOR -		SHEETS					
		DATE - 1/18/10	REVISOR -		STA.					
					TO STA.					

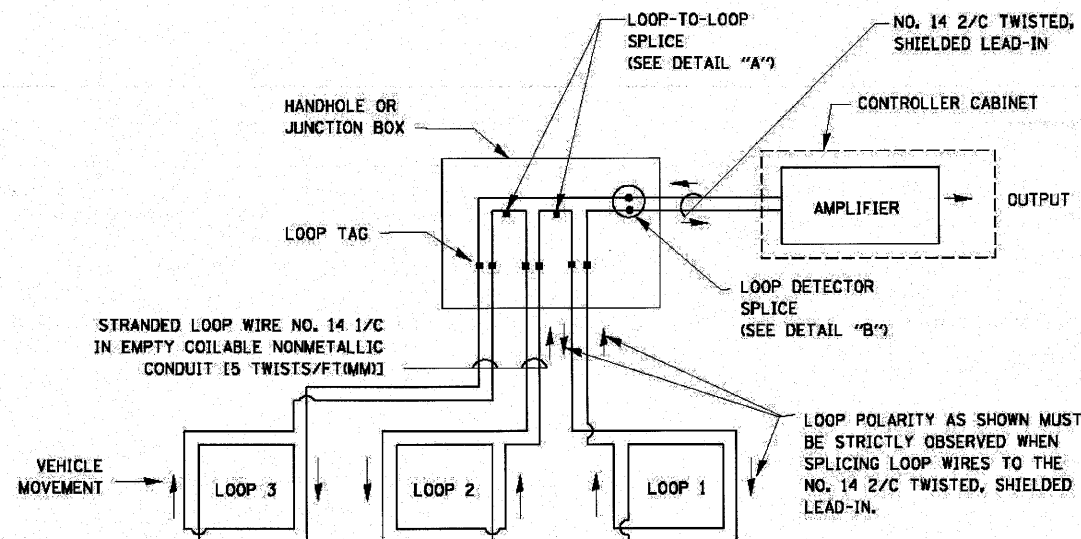
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

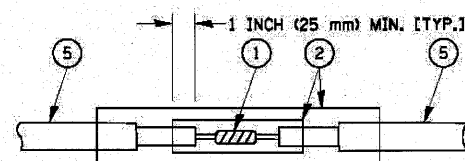


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

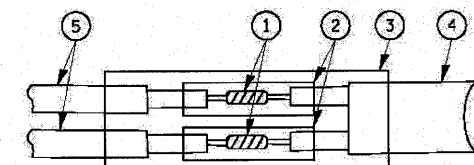


DETECTOR LOOP WIRING SCHEMATIC

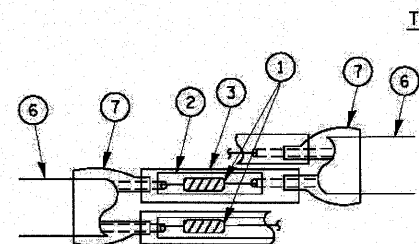
- LOOPS SHALL BE SPliced IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



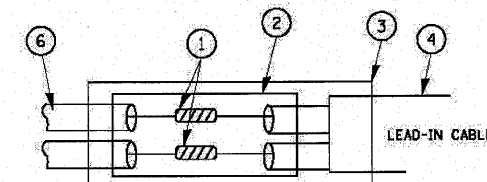
**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

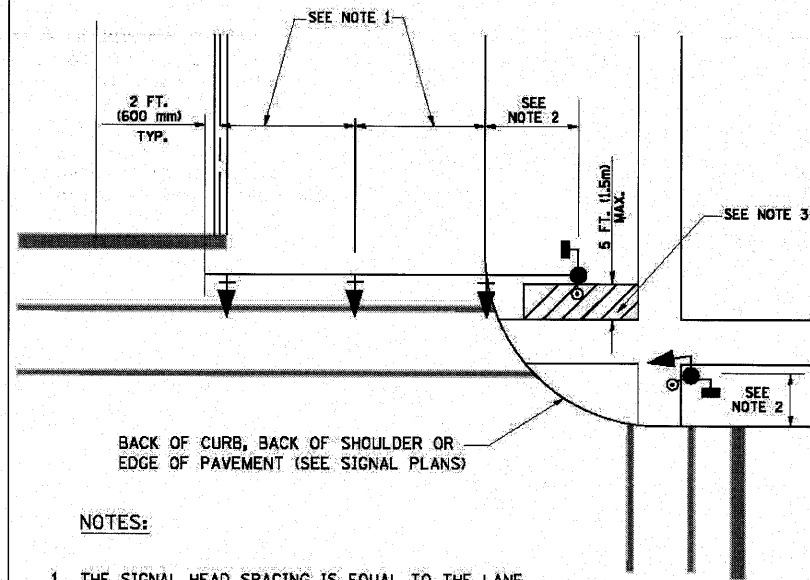
LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL.

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - DAD	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A.P. RTE. 3537	SECTION (4)8&22-3JR-2	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 118
		DRAWN - BCK	REVISIONS -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	62093						
		CHECKED - DAD	REVISIONS -										
		DATE - 10/28/09	REVISIONS -										

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

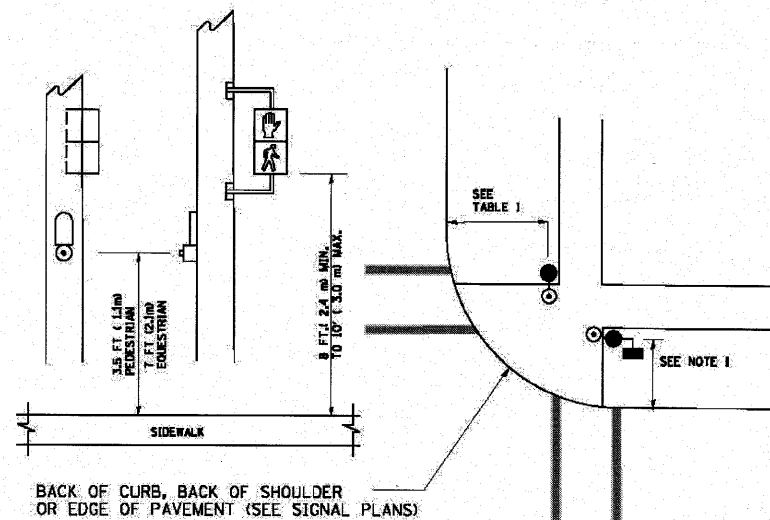
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

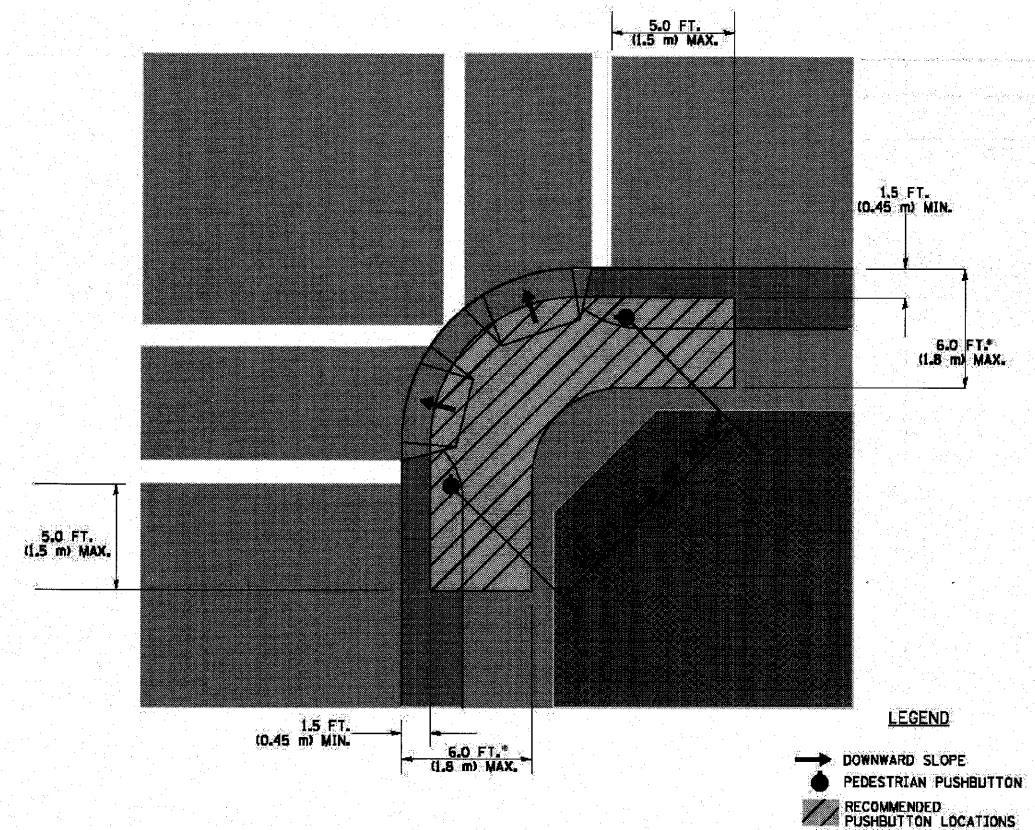
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- 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.

FILE NAME =	USER NAME = #USER#	DESIGNED - DAD	REVISED -
#FILE#		DRAWN - BCK	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - DAD	REVISED -
	PLOT DATE = 3/19/2010	DATE - 10/28/09	REVISED -

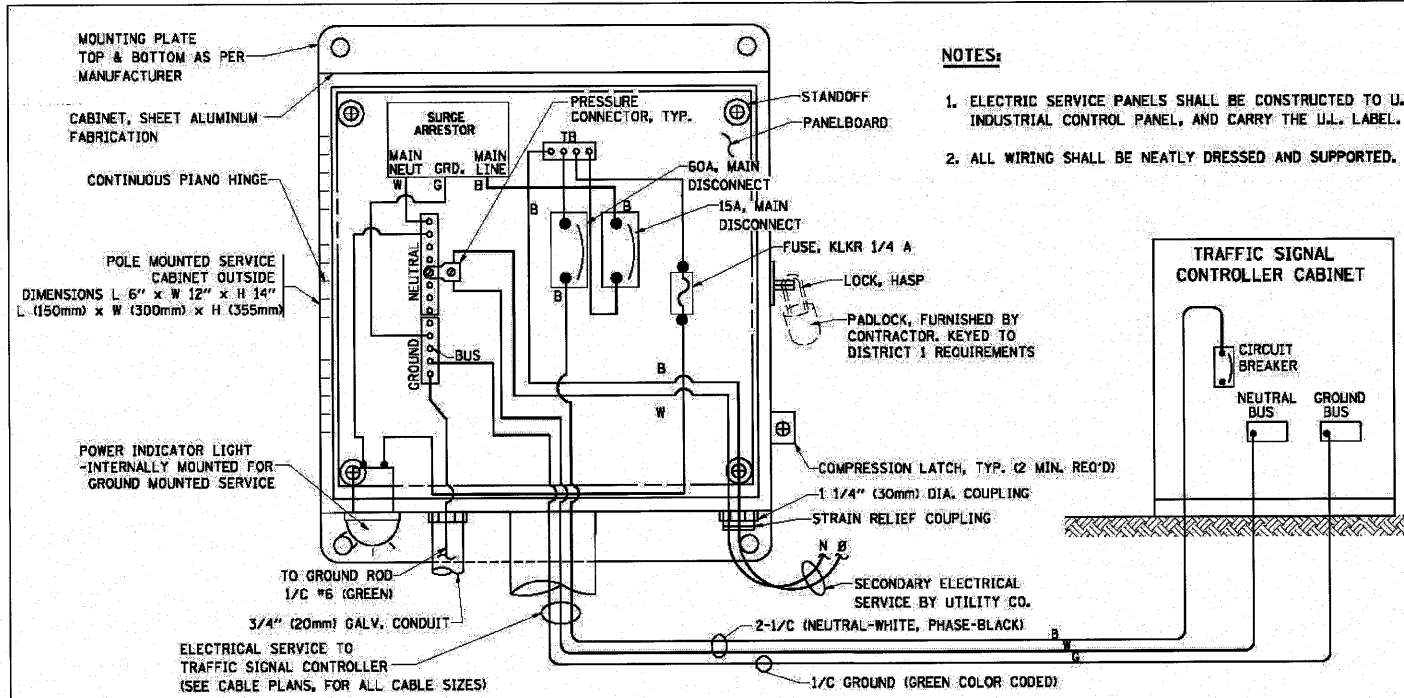
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

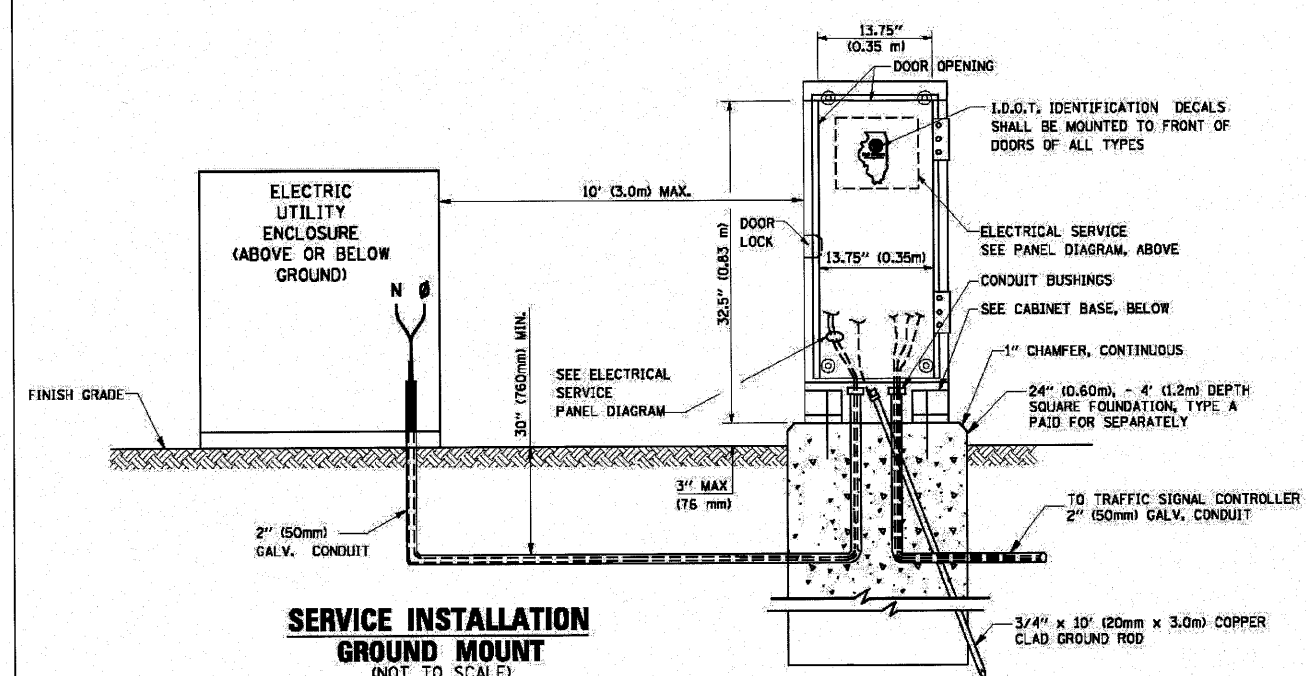
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y&22-3)R-2	DuPage	284	119
62093				

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

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

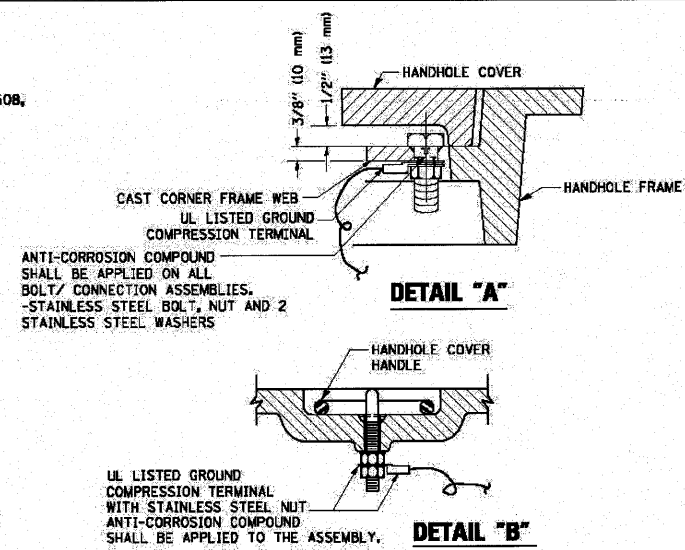
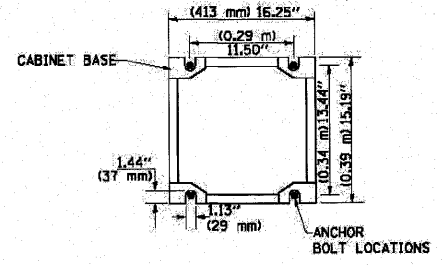


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

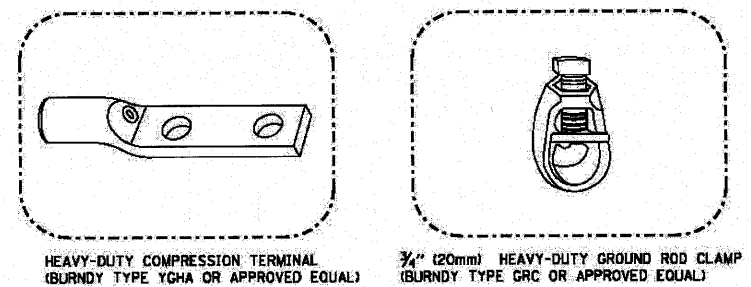
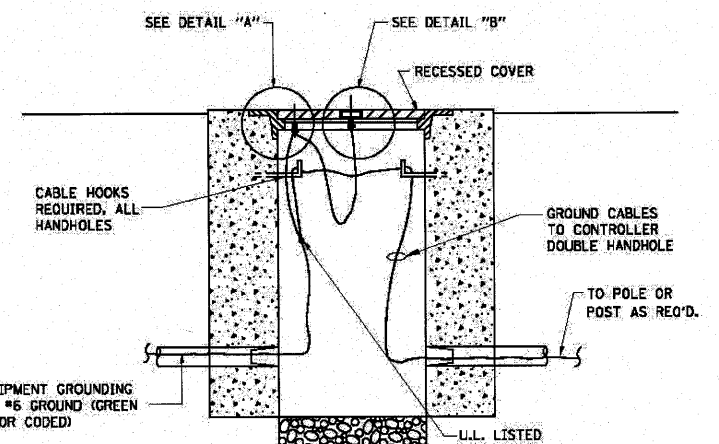


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

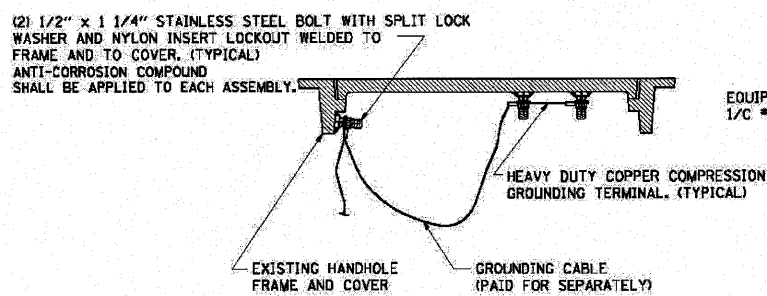
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



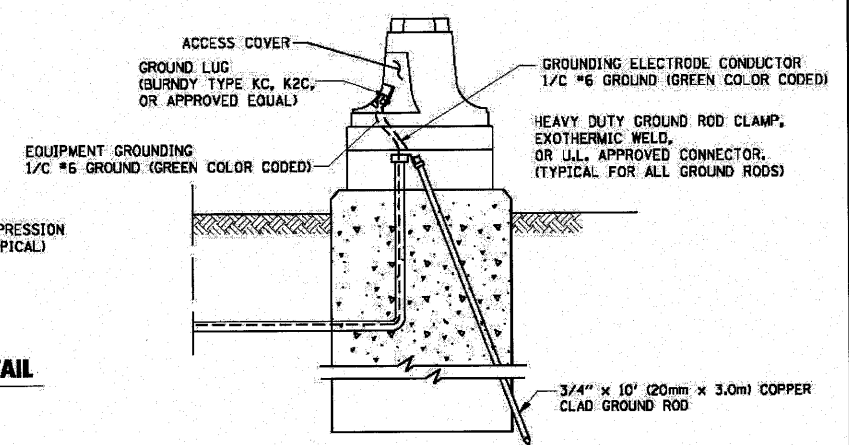
- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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

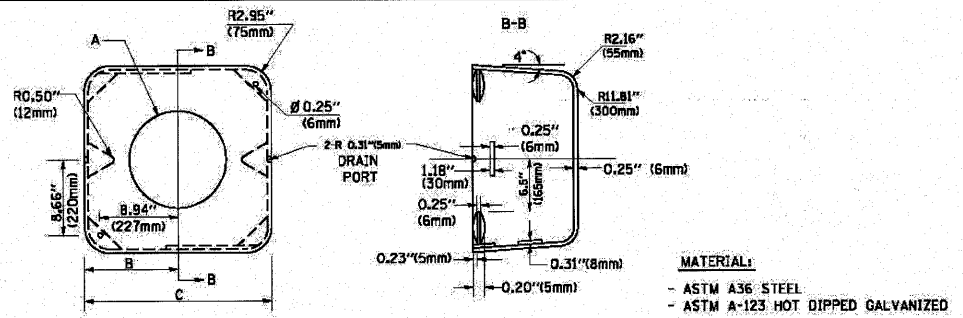
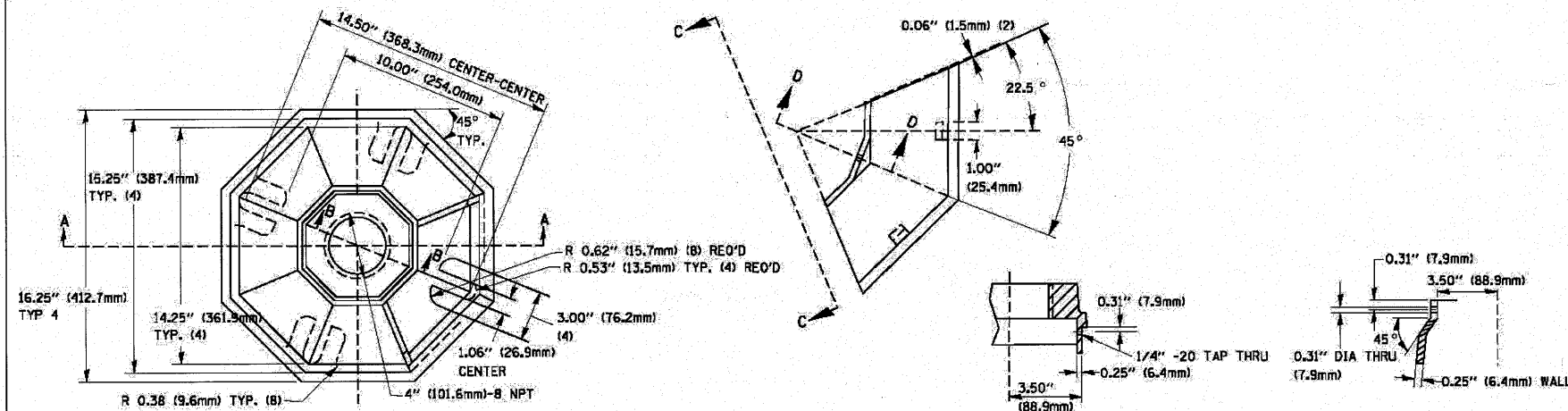


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

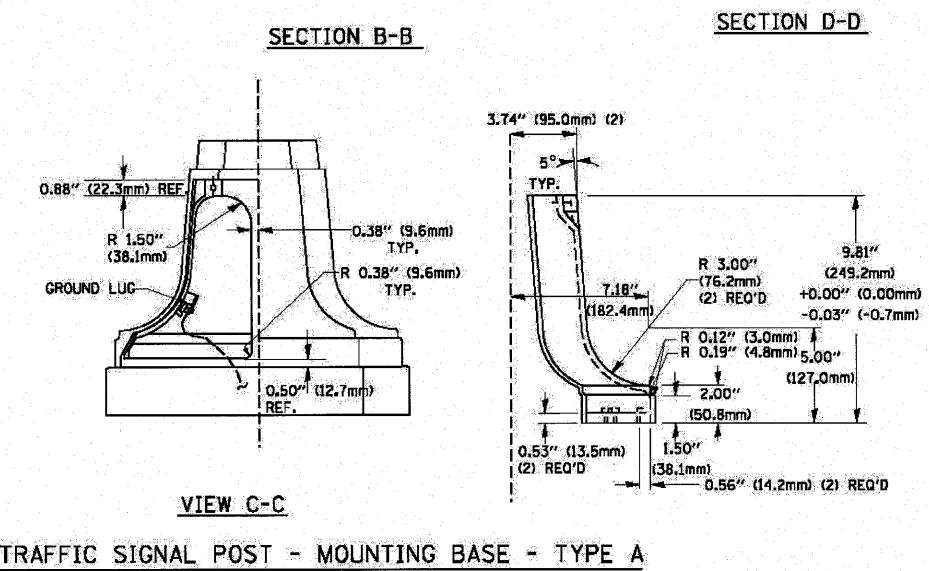
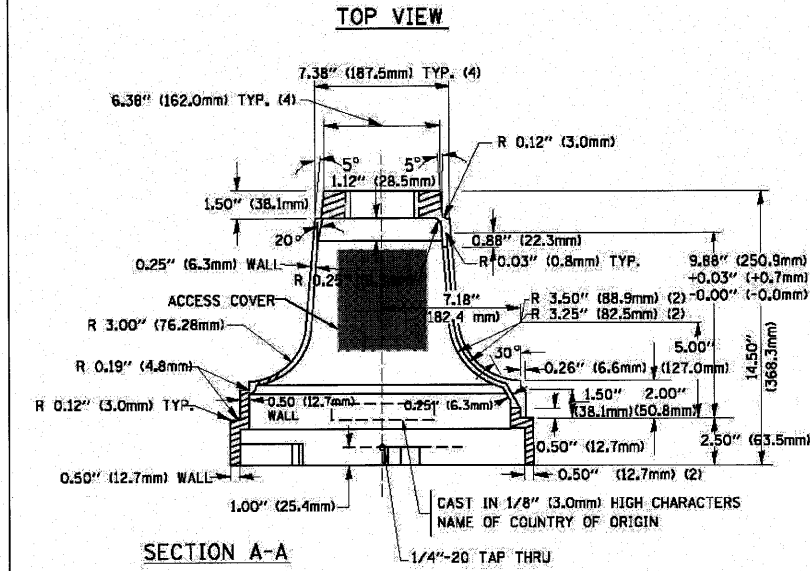


MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

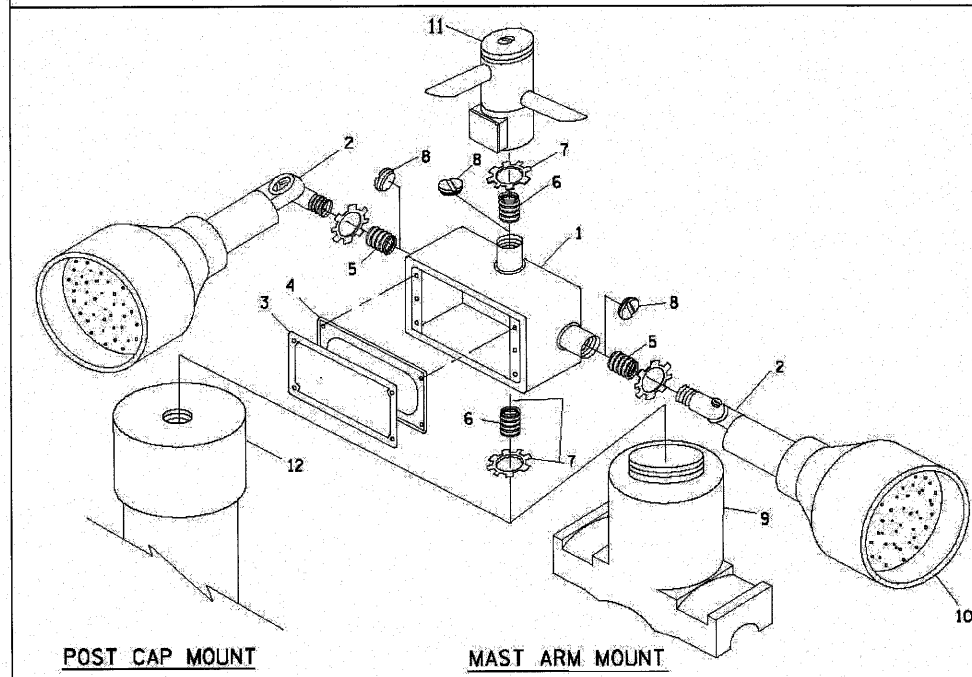
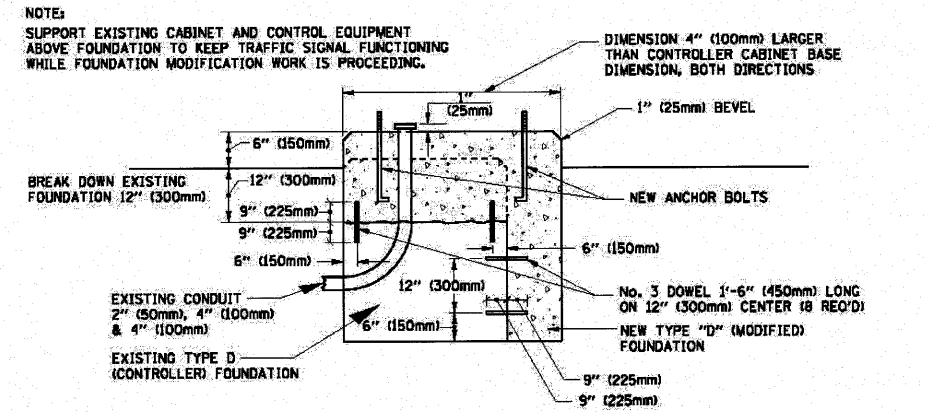
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#FILEL#		DRAWN - BCK	REVISED -			3537	(4)822-3)R-2	DuPage	284	120	
		CHECKED - DAD	REVISED -			62093					
		DATE - 10/28/09	REVISED -			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT					
						SCALE:	SHEET NO. OF SHEETS STA. TO STA.				



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

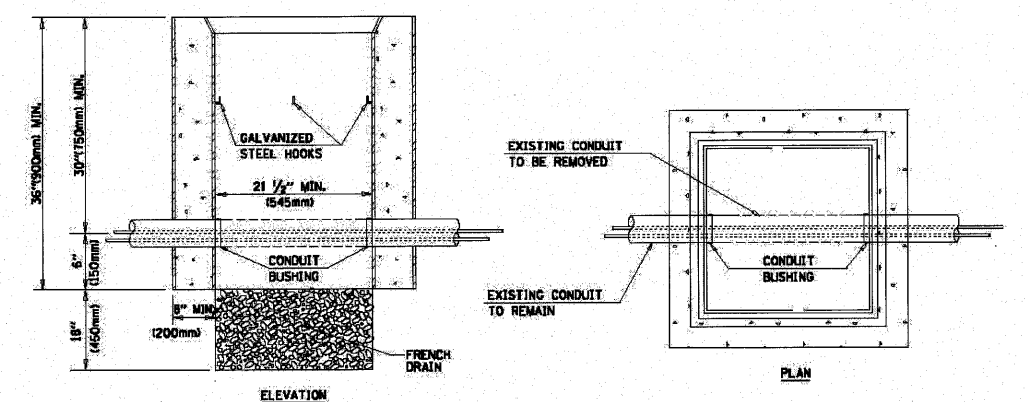


- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
 - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
 - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST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

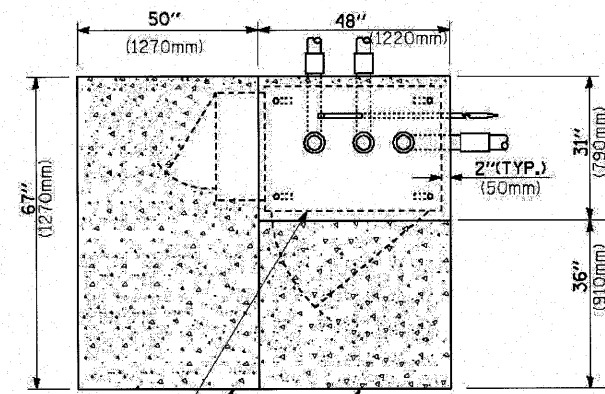


ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR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

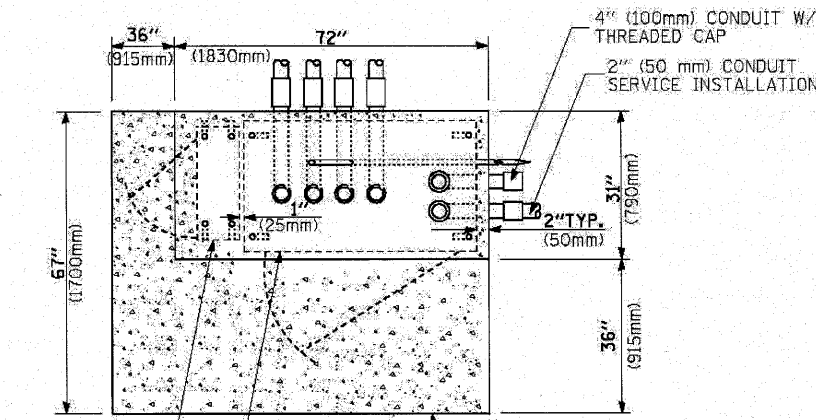
- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM *2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM *9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED.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



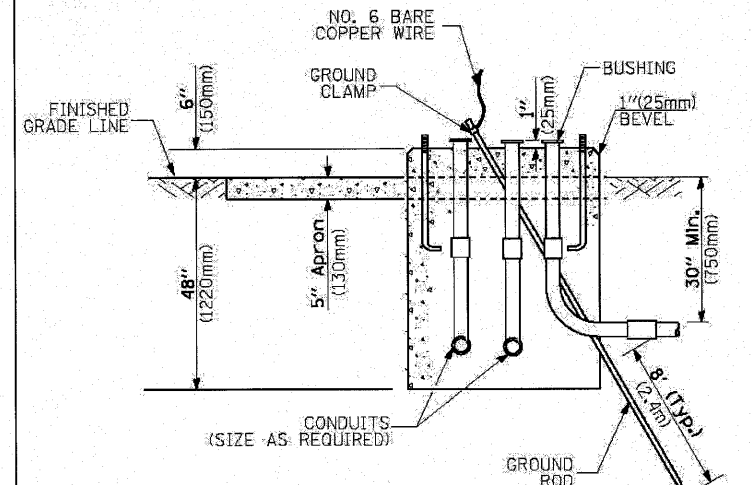
- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.



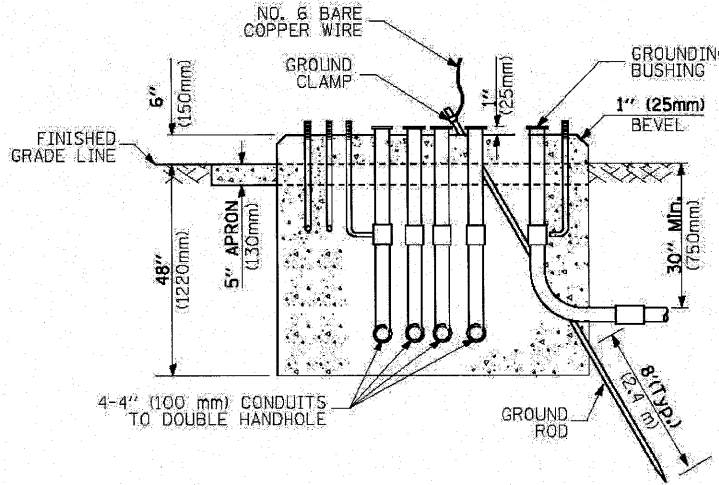
TOP VIEW



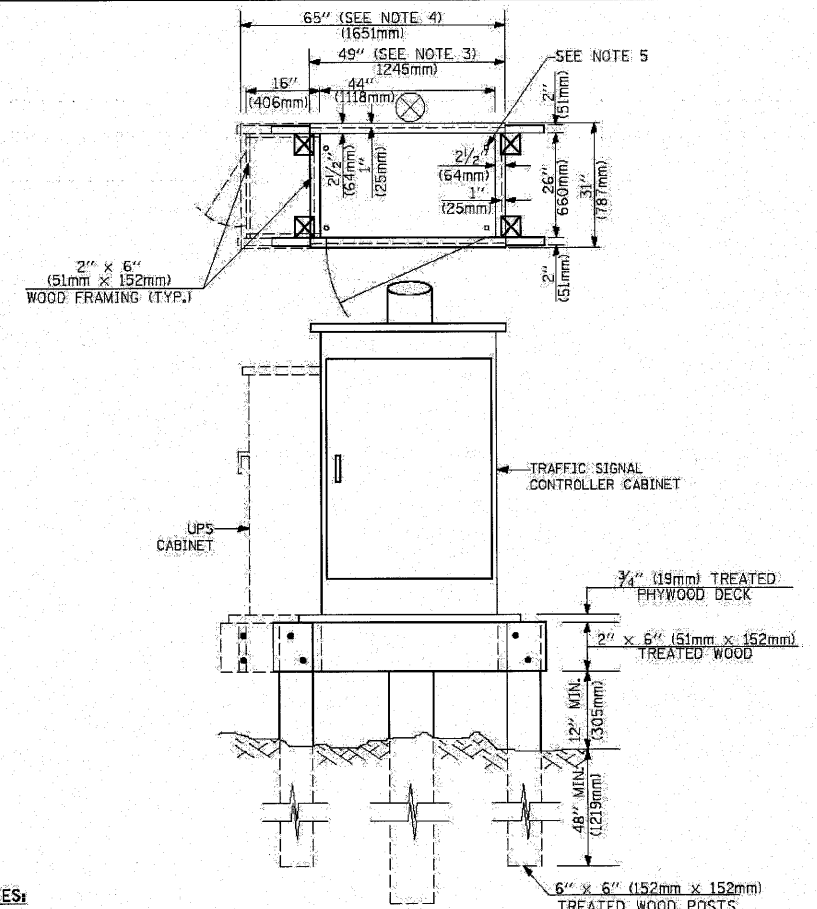
TOP VIEW



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



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



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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

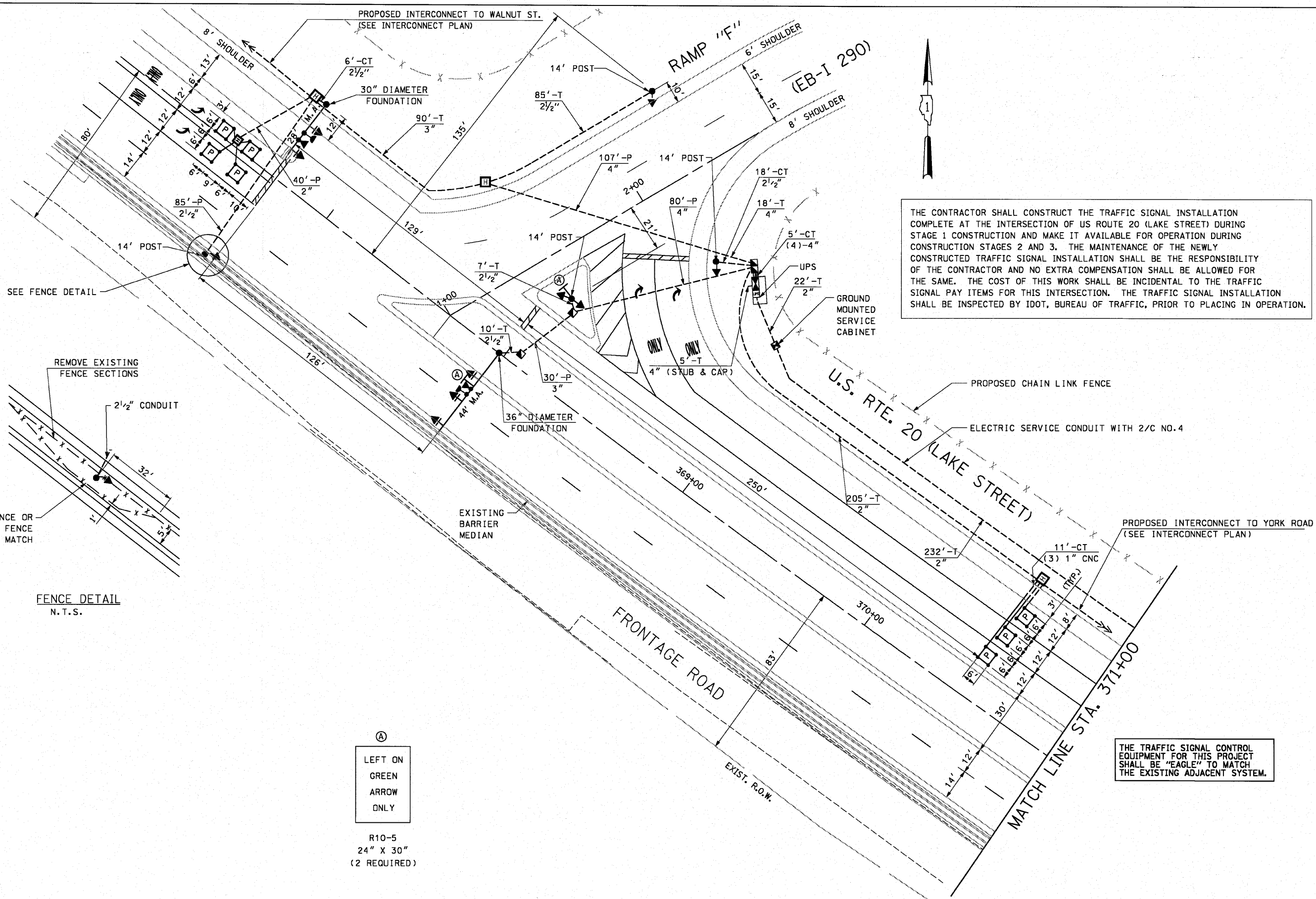
Mast Arm Length	Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (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.
 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 4. For mast arm assemblies with dual arms refer to state standard 878001.

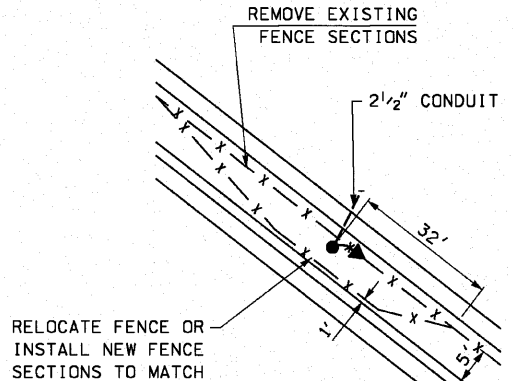
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRICAL CABLE IN CONDUIT, TRACER, NO. 14 1/C. UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLD				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
TELEPHONE CONNECTION (P) POLE OF (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVE			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVE			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				ABANDON ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVE			
GUY WIRE				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING SYSTEM DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DONT WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO REPEATER				FLASHING SIGNAL			
ILLUMINATED SIGN "NO RIGHT TURN"				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
DETECTOR LOOP, TYPE I				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
PREFORMED DETECTOR LOOP											
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



THE CONTRACTOR SHALL CONSTRUCT THE TRAFFIC SIGNAL INSTALLATION COMPLETE AT THE INTERSECTION OF US ROUTE 20 (LAKE STREET) DURING STAGE 1 CONSTRUCTION AND MAKE IT AVAILABLE FOR OPERATION DURING CONSTRUCTION STAGES 2 AND 3. THE MAINTENANCE OF THE NEWLY CONSTRUCTED TRAFFIC SIGNAL INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE SAME. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL PAY ITEMS FOR THIS INTERSECTION. THE TRAFFIC SIGNAL INSTALLATION SHALL BE INSPECTED BY IDOT, BUREAU OF TRAFFIC, PRIOR TO PLACING IN OPERATION.



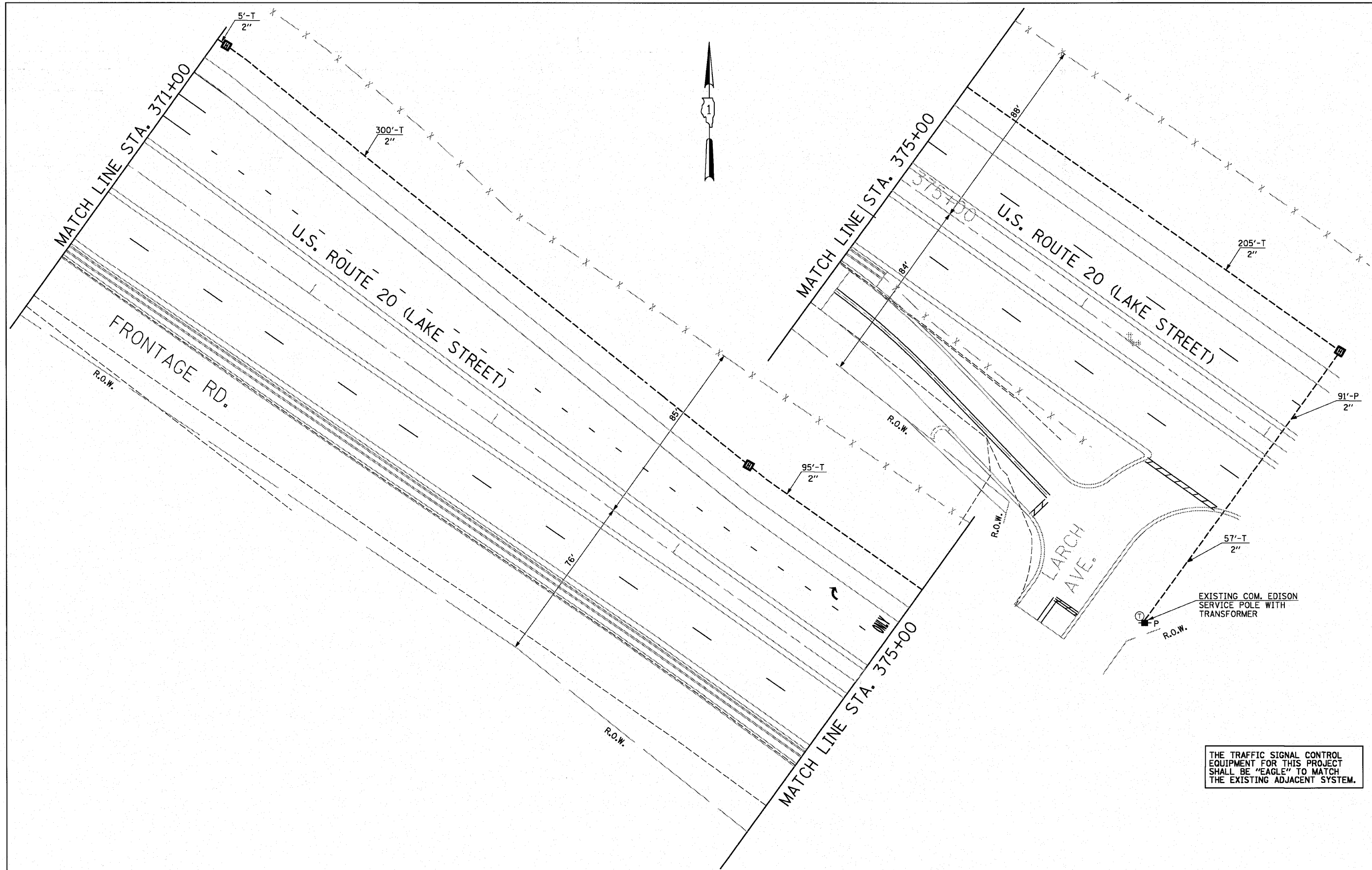
FENCE DETAIL
N.T.S.

Ⓐ
LEFT ON
GREEN
ARROW
ONLY

R10-5
24" X 30"
(2 REQUIRED)

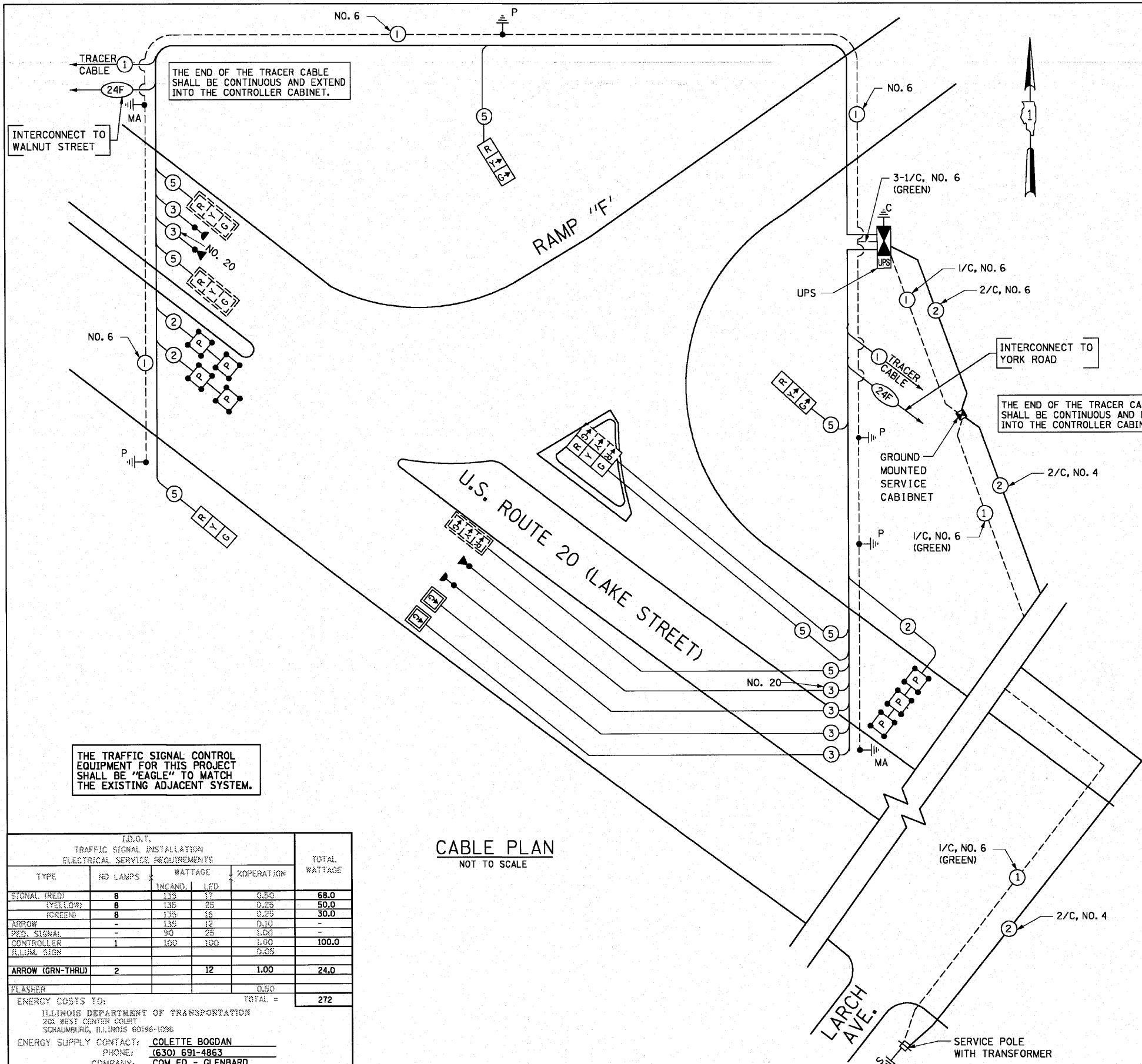
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION U.S. ROUTE 20 (LAKE STREET) AT RAMP "F" (SHEET 1 OF 2)			F.A.P. RTE. 3537	SECTION 44Y&22-3R-2	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 124
	PLOT SCALE = *SCALE*	DRAWN - MAA, SHM	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -									
		DATE -	REVISED -									



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	USER NAME = #USER*	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION U.S. ROUTE 20 (LAKE STREET) AT RAMP "F" (SHEET 2 OF 2)				F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - MAA, SHM	REVISED -		3537	(4Y&22-3)R-2	DuPage	284	125				
PLOT SCALE = #SCALE#		CHECKED - PKG	REVISED -		SCALE: 1"=20'				FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
PLOT DATE = 3/19/2010		DATE -	REVISED -		SHEET NO. OF SHEETS STA. TO STA.				62093				



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

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

CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL
TYPE	NO LAMPS	WATTAGE	OPERATION		WATTAGE
SIGNAL (RED)	8	135	37	0.50	68.0
SIGNAL (YELLOW)	8	135	25	0.25	50.0
SIGNAL (GREEN)	8	135	16	0.25	30.0
ARROW	-	135	12	0.50	-
DEF. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	-	-	-	0.05	-
ARROW (GRN-THRU)	2	12	1.00		24.0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	272
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER STREET SCHAMBERG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: COLETTE BOGDAN					
PHONE: (630) 691-4863					
COMPANY: COM ED - GLENBARD					

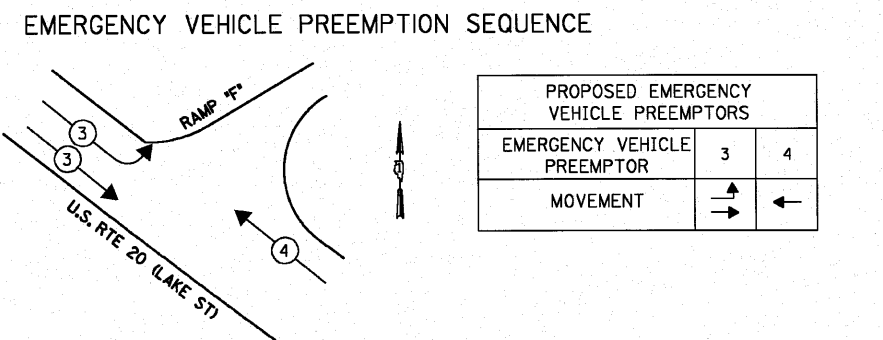
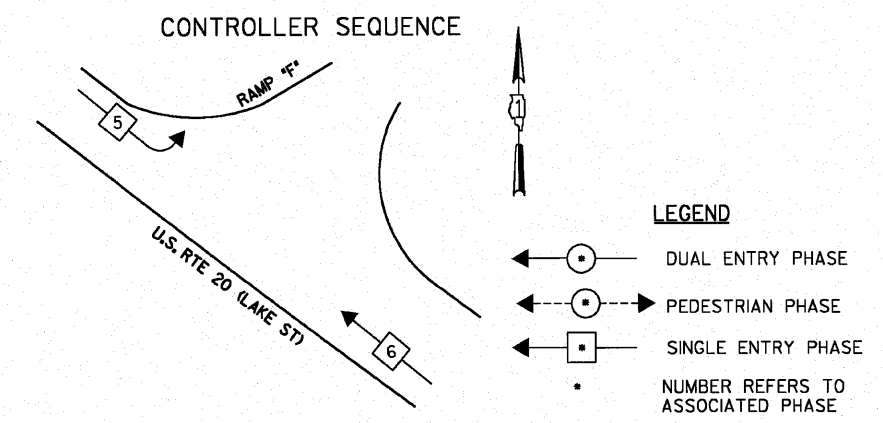
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#FILE#		DRAWN - MAA, SHM	REVISED -
		CHECKED - PKG	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND
SCHEDULE OF QUANTITIES. U.S. ROUTE 20 (LAKE STREET) AT RAMP "F"
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

QUANTITY	UNIT	ITEM
10	SQ FT	SIGN PANEL - TYPE 1
1121	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
126	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
90	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
43	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
131	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
85	FOOT	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL
30	FOOT	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL
187	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
2	EACH	HANDHOLE
6	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
1341	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
935	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1736	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
828	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
15	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
15	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
2	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
5	EACH	TRAFFIC SIGNAL BACKPLATE
3	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
241	FOOT	PREFORMED DETECTOR LOOP
1	EACH	SERVICE INSTALLATION, GROUND MOUNT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS)
2035	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C (GREEN)
504	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
1005	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C

• 100% COST TO THE CITY OF ELMHURST



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	←

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y&22-3)R-2	DuPage	126	62093
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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

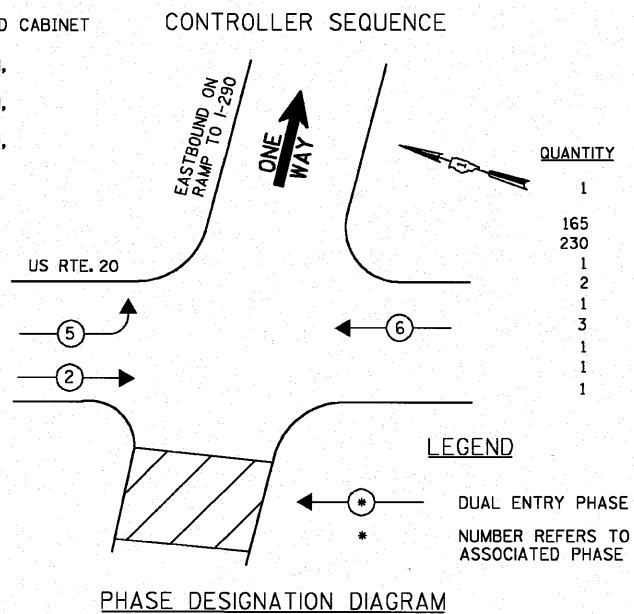
1	EACH	TRAFFIC SIGNAL CONTROLLER AND CABINET
4	EACH	WOOD POLE
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED
3	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION, SPAN WIRE MOUNTED
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED
1	EACH	SERVICE INSTALLATION
312	LIN FT	SPAN WIRE
312	LIN FT	TETHER WIRE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		OPERATION	
		INCAND.	LED		
SIGNAL (RED)	6	135	17	0.50	51
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	9	135	15	0.25	33.75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
				0.50	
ENERGY COSTS TO:				TOTAL =	227.05

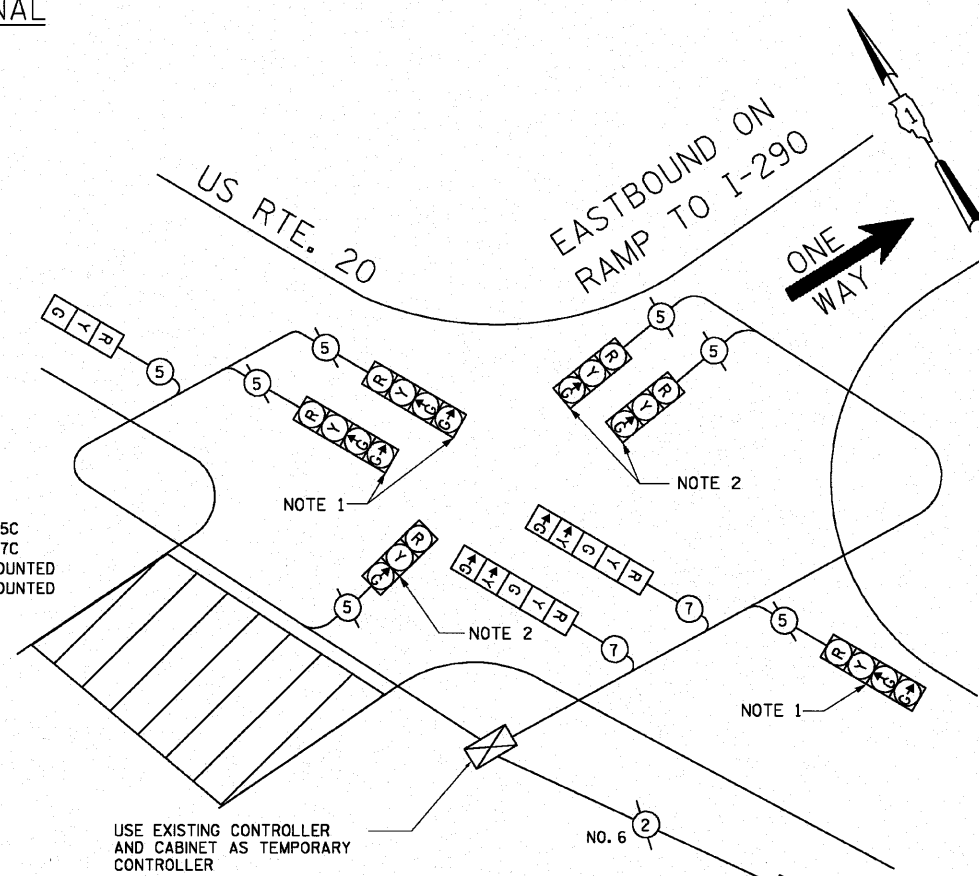
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: Colette Bogdan
PHONE: (630) 691-4863
COMPANY: COM ED - GLENBARD

FILE NAME =	USER NAME = #USER#	DESIGNED - PKG	REVISED -
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		CHECKED - PKG	REVISED -
		DATE -	REVISED -



SCHEDULE OF QUANTITIES		
QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
165	FOOT	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C
230	FOOT	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	MODIFY TEMPORARY TRAFFIC SIGNAL INSTALLATION



EXIST. TEMPORARY CABLE PLAN (MODIFIED)

NOT TO SCALE

EXIST. TEMPORARY TRAFFIC SIGNAL INSTALLATION (MODIFIED)

SCALE: 1"=20'

STAGE I - NOTES

- NOTE 1: RELOCATE EXISTING 4-SECTION, SPAN WIRE MOUNTED SIGNAL HEAD FOR THE NORTHBOUND U.S. ROUTE 20 AS SHOWN IN THE PLAN AND AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR AS PART OF "MODIFY EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- NOTE 2: REMOVE EXISTING 3-SECTION, SPAN WIRE MOUNTED SIGNAL HEAD FOR THE WEST APPROACH OF THE INTERSECTION AS SHOWN IN THE PLAN AND AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR AS PART OF "MODIFY EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION".

SPECIAL NOTE 1: THE EXISTING TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE MODIFIED AS SHOWN IN THE PLAN AND AS DIRECTED BY THE ENGINEER AND SHALL NOT BE REMOVED UNTIL AFTER PHASE 1 CONSTRUCTION IS OVER AND THE TEMPORARY SIGNAL INSTALLATION IS NO LONGER NEEDED.

SPECIAL NOTE 2: THE EXISTING TRAFFIC SIGNAL CONTROLLER IS EMC 4000.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				TEMPORARY TRAFFIC SIGNAL INSTALLATION AND TEMPORARY CABLE PLAN (MODIFIED)		F.A.P. RTE. 3537	SECTION (4Y&22-3)R-2	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 127
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
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5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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

AGENCY: CITY OF ELMHURST

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

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

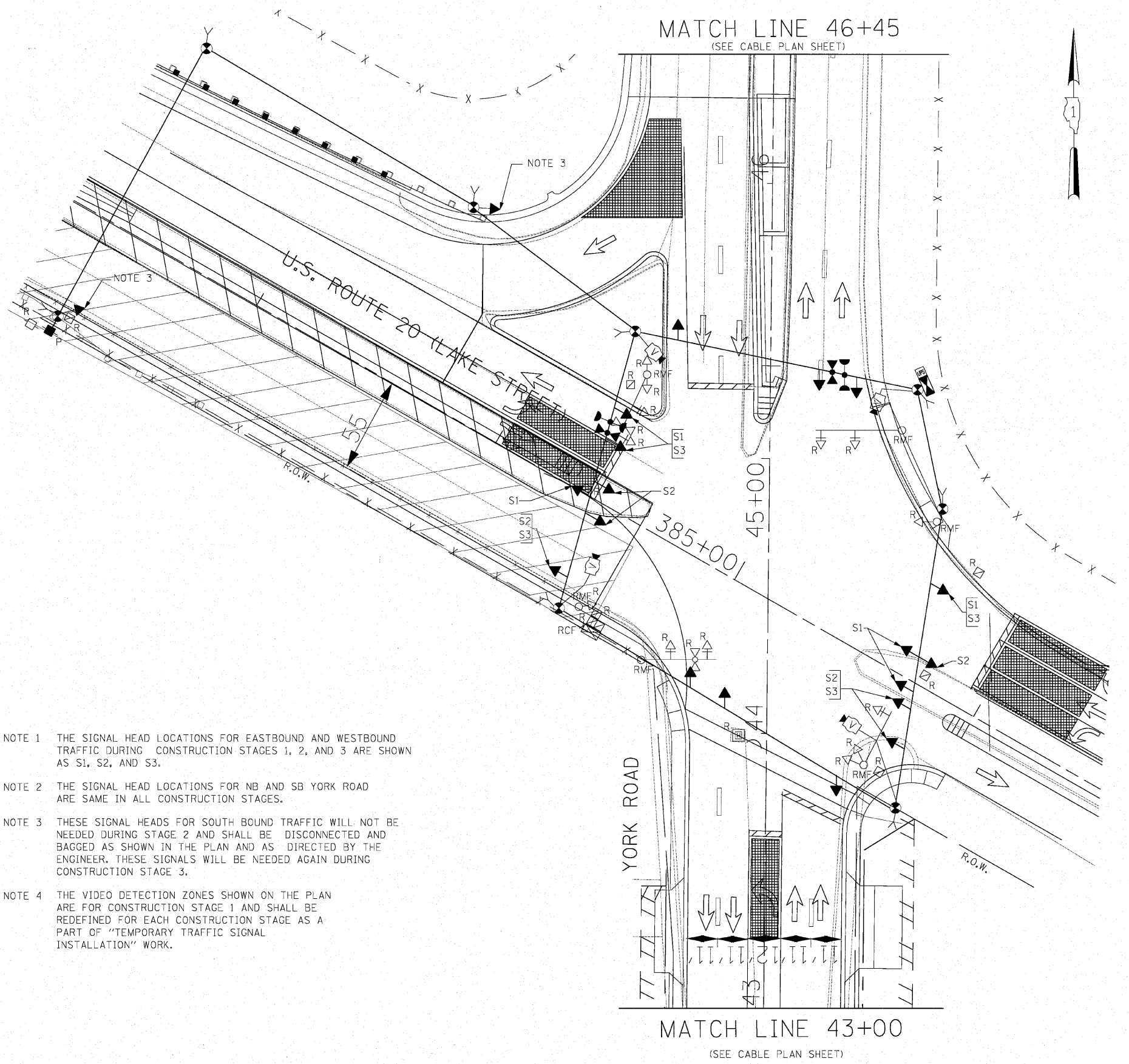
1	EACH	TRAFFIC SIGNAL CONTROLLER AND CABINET
2	EACH	TRAFFIC SIGNAL POST
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, 2-FACE, 1-4-SECTION, 1-5 SECTION, BRACKET MOUNTED

NOTE 1 THE SIGNAL HEAD LOCATIONS FOR EASTBOUND AND WESTBOUND TRAFFIC DURING CONSTRUCTION STAGES 1, 2, AND 3 ARE SHOWN AS S1, S2, AND S3.

NOTE 2 THE SIGNAL HEAD LOCATIONS FOR NB AND SB YORK ROAD ARE SAME IN ALL CONSTRUCTION STAGES.

NOTE 3 THESE SIGNAL HEADS FOR SOUTH BOUND TRAFFIC WILL NOT BE NEEDED DURING STAGE 2 AND SHALL BE DISCONNECTED AND BAGGED AS SHOWN IN THE PLAN AND AS DIRECTED BY THE ENGINEER. THESE SIGNALS WILL BE NEEDED AGAIN DURING CONSTRUCTION STAGE 3.

NOTE 4 THE VIDEO DETECTION ZONES SHOWN ON THE PLAN ARE FOR CONSTRUCTION STAGE 1 AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



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		CHECKED - PKG	REVISED -
		DATE -	REVISED -

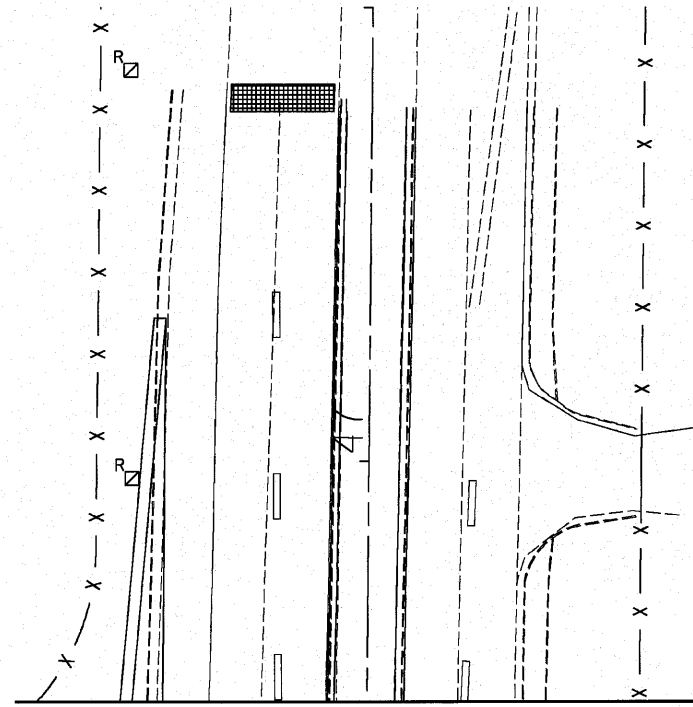
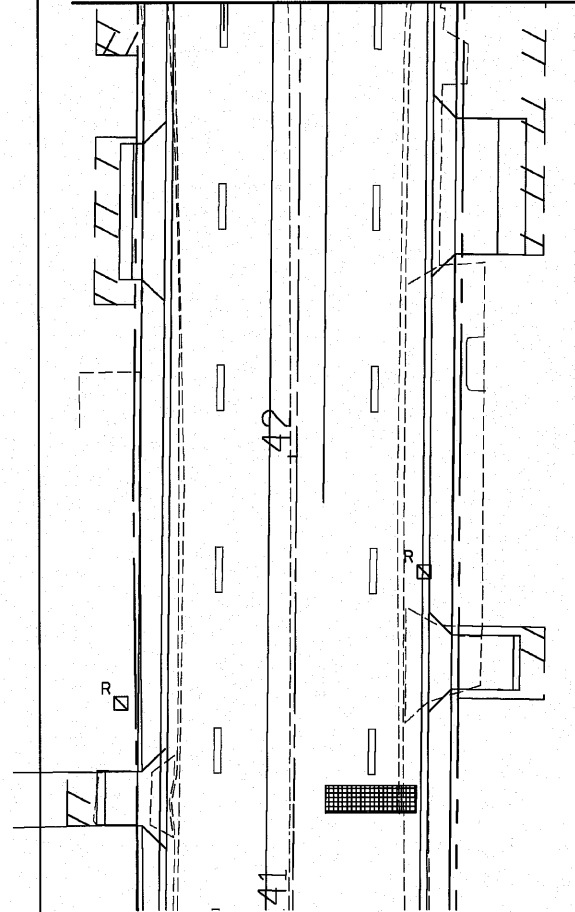
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLTION
U.S. ROUTE 20 (LAKE STREET) AT YORK ROAD (SHEET 1 OF 2)

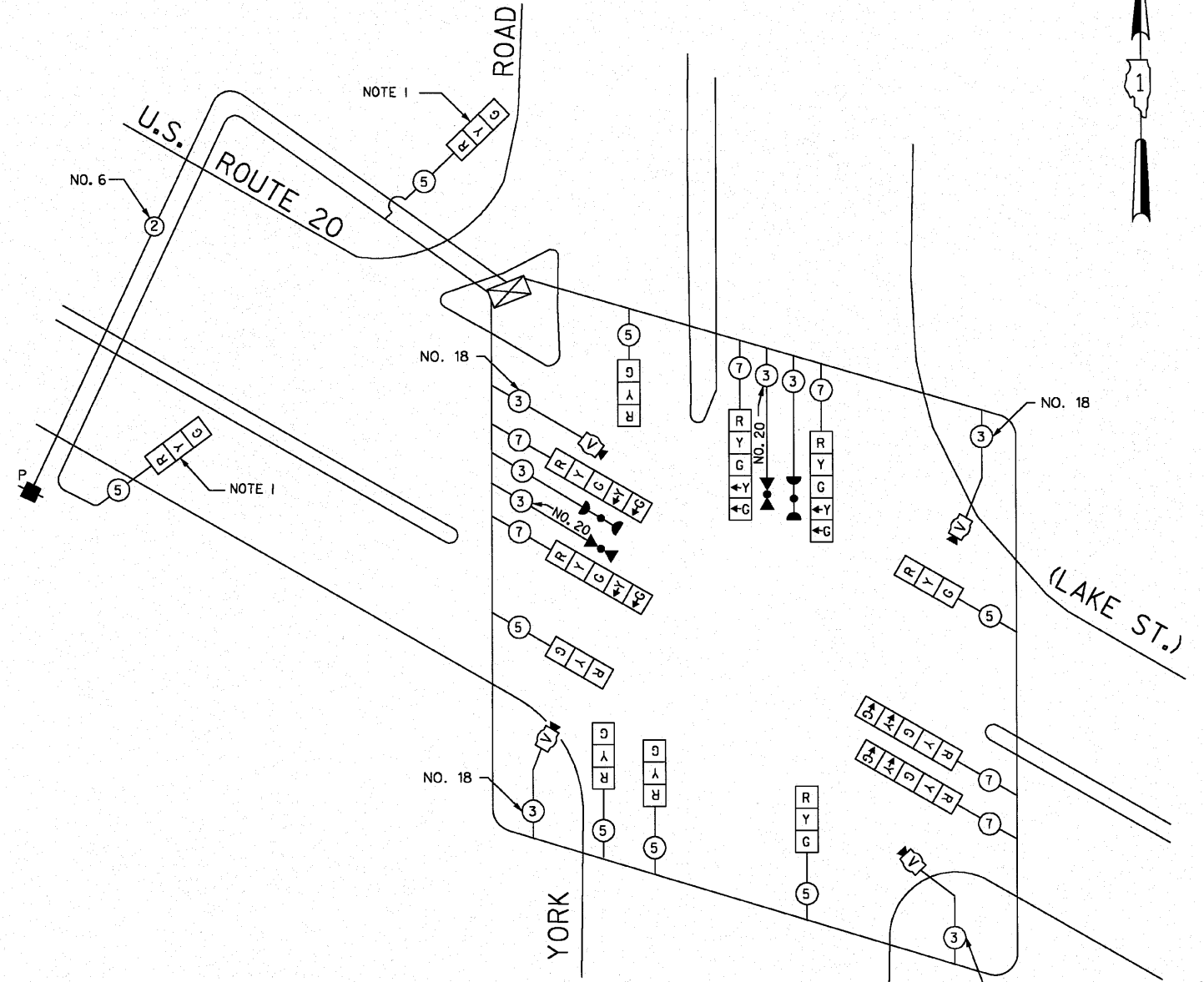
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F.A.P. RTE. 3537	SECTION (4Y&22-3)R-2	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 128
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 62093				

MATCH LINE 43+00

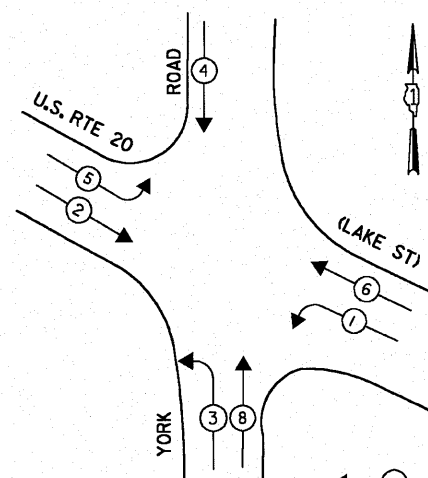


MATCH LINE 46+45



CABLE PLAN
NOT TO SCALE

CONTROLLER SEQUENCE

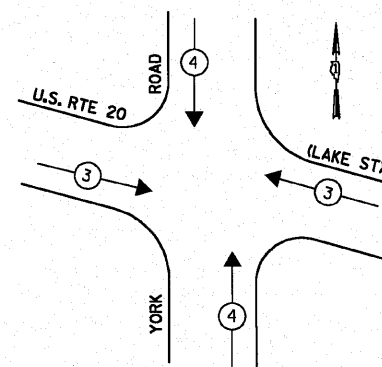


PHASE DESIGNATION DIAGRAM

LEGEND

- ← ● → DUAL ENTRY PHASE
- ← ● PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

NOTE 1

THESE SIGNAL HEADS FOR SOUTH BOUND TRAFFIC WILL NOT BE NEEDED DURING PHASE 2 AND SHALL BE DISCONNECTED AND BAGGED IN THE PLAN AND AS DIRECTED BY THE ENGINEER. THESE SIGNALS WILL BE NEEDED AGAIN DURING CONSTRUCTION PHASE 3.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE	%OPERATION		
SIGNAL (RED)	14	135	17	0.50	119.0
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	12	135	12	0.10	14.1
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	373.1
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT: Colette Bogdan					
PHONE: (630) 691-4863					
COMPANY: COM ED - GLENBARD					

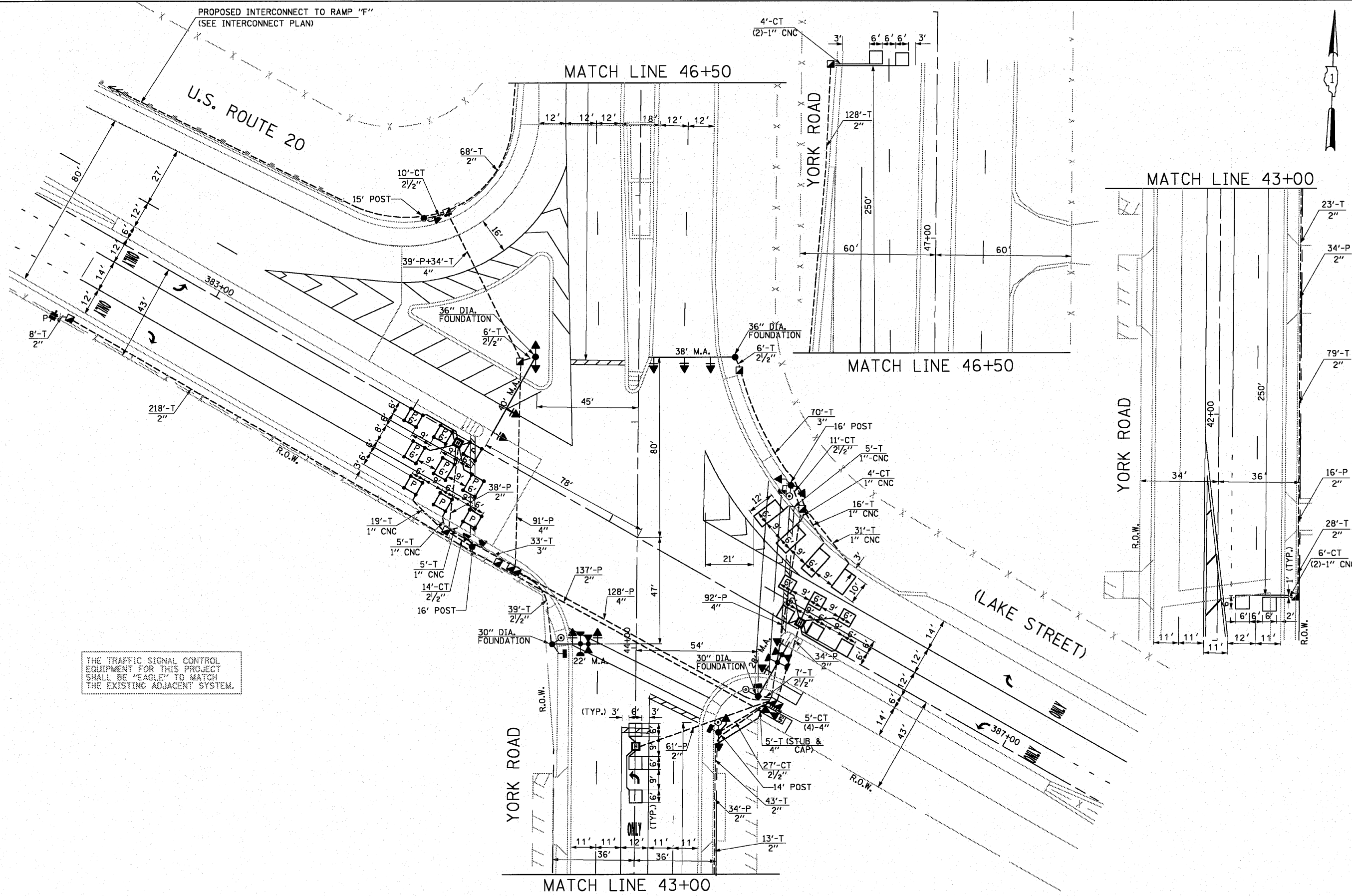
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#FILE#		DRAWN - MAA, SHM	REVISED -
		CHECKED - PKG	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
U.S. ROUTE 20 (LAKE STREET) AT YORK ROAD (SHEET 2 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y&22-3)R-2	DuPage	284	129
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

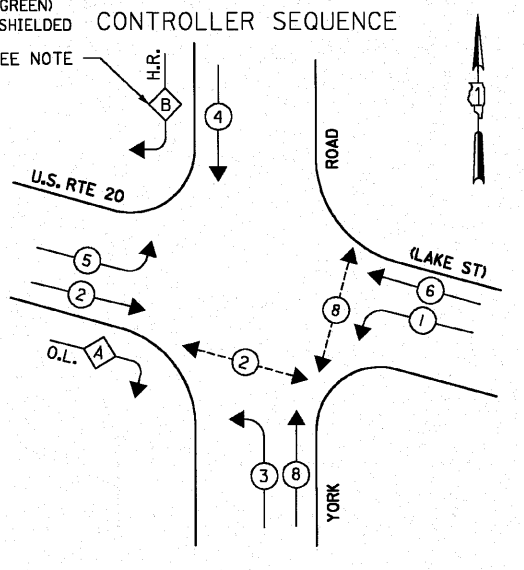
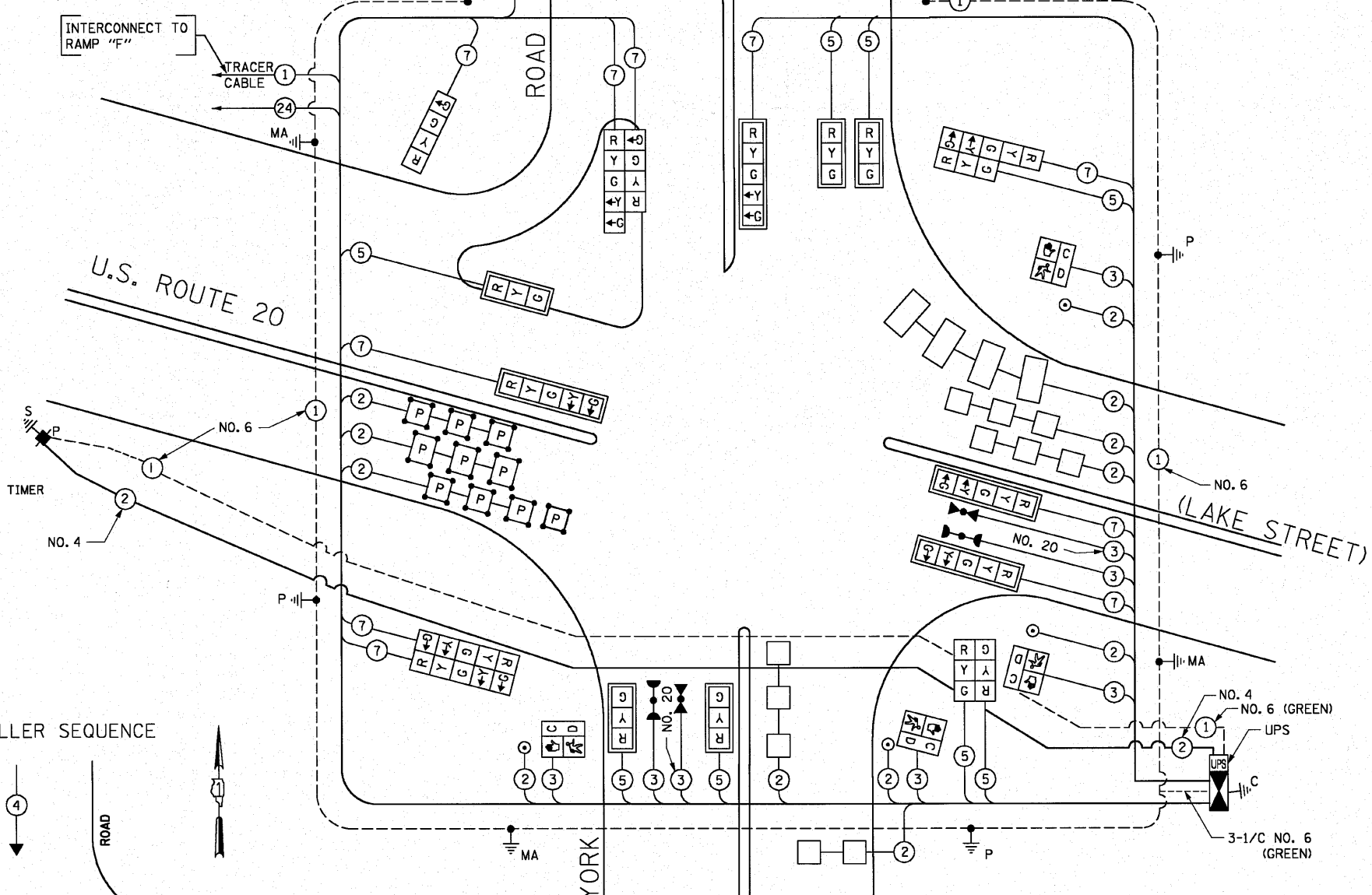
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*FILE#		DRAWN - MAA, SHM	REVISED -		SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT SCALE = #SCALE#		CHECKED - PKG	REVISED -							62093		
PLOT DATE = 3/19/2010		DATE -	REVISED -									

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
12	SQ FT	SIGN PANEL - TYPE 1
25	SQ FT	SIGN PANEL - TYPE 2
608	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
120	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
103	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
59	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
354	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
350	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
9	EACH	HANDHOLE
3	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
808	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
457	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
801	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1580	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2234	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2034	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
30	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
9	EACH	TRAFFIC SIGNAL BACKPLATE
9	EACH	INDUCTIVE LOOP DETECTOR
626	FOOT	DETECTOR LOOP, TYPE 1
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
14	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
309	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	SERVICE INSTALLATION, POLE MOUNT
1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS)
1364	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C (GREEN)
316	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
396	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C

• 100% COST TO THE CITY OF ELMHURST

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



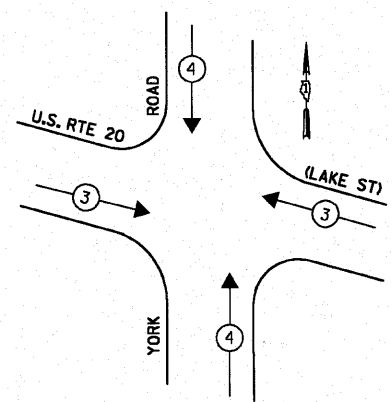
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

NOTE
THE GREEN RIGHT TURN ARROW INDICATION FOR THE SOUTHBOUND TO WESTBOUND RIGHT TURN MOVEMENT IS HOT WIRED.

CABLE PLAN
NOT TO SCALE

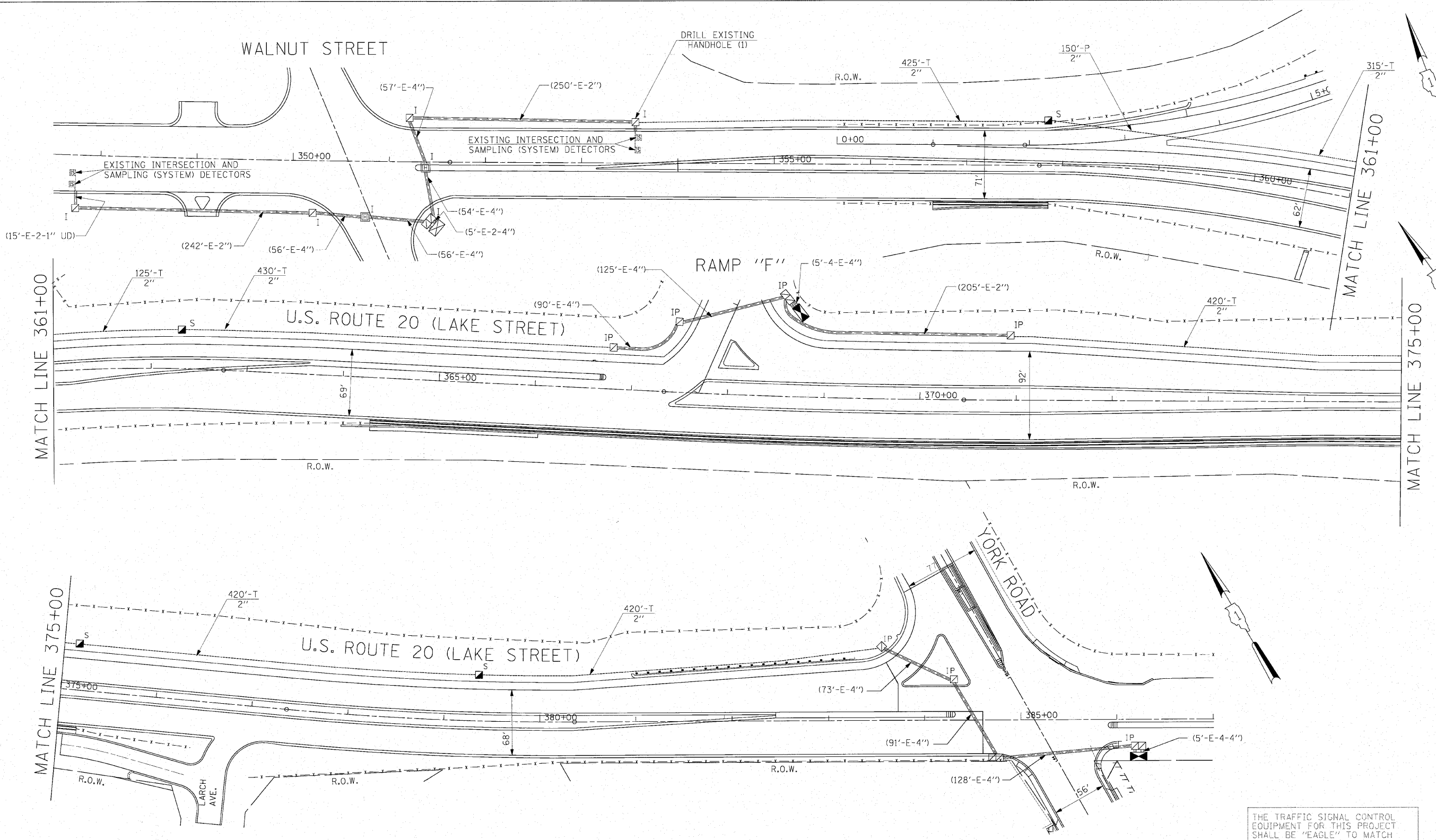
EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

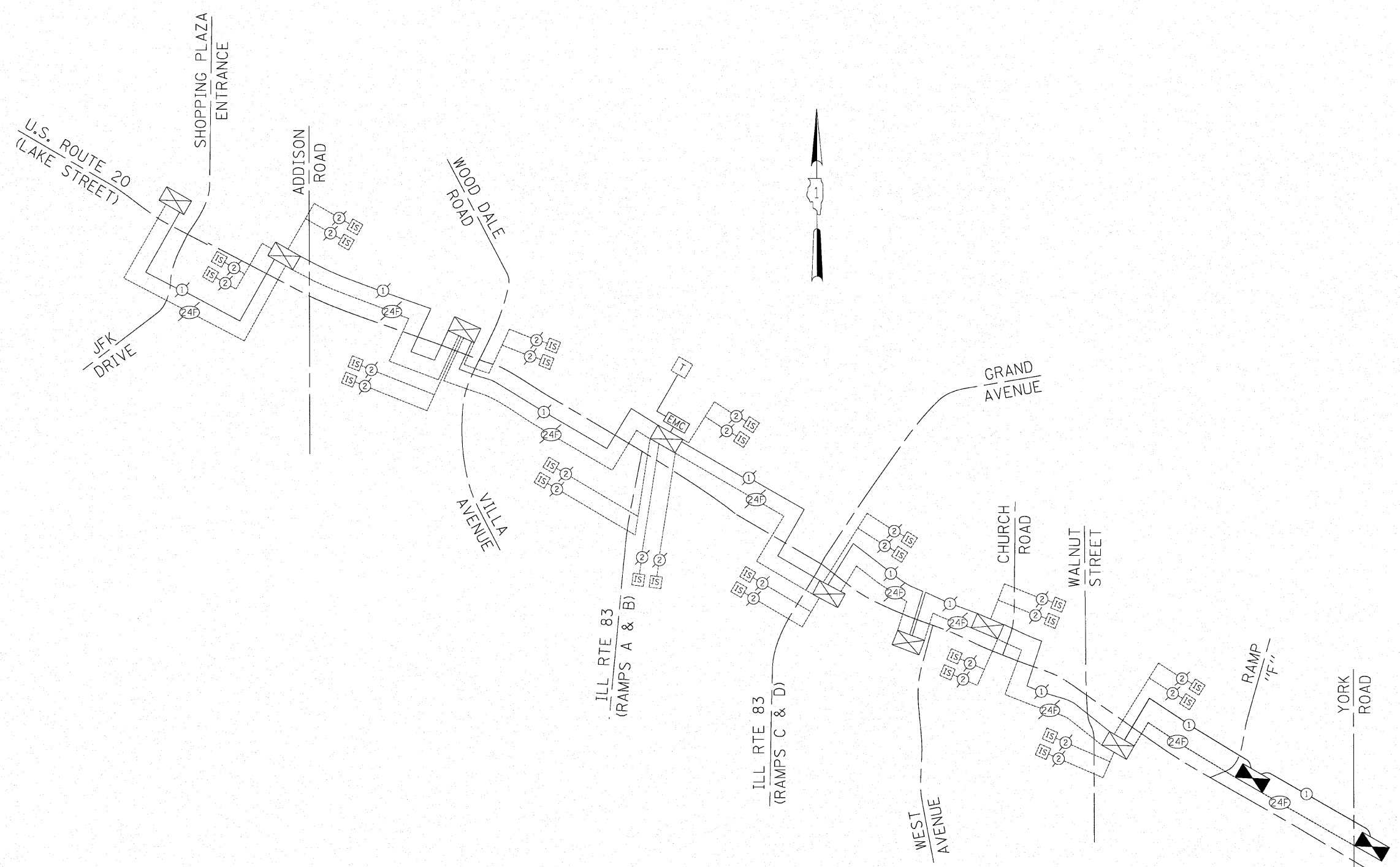
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE	OPERATION	TOTAL WATTAGE
SIGNAL HEAD	18	135	17	153.0
YELLOW	18	135	25	112.5
GREEN	18	135	15	67.5
ARROW	16	135	12	19.2
PEP. SIGNAL	4	90	25	100.00
CONTROLLER	1	100	100	100.00
ALLOW. SIGN				0.00
ARROW (GRN-HOT)	2	12	1.00	24.00
FLASHER				0.00
ENERGY COSTS TO:				TOTAL =
ILLINOIS DEPARTMENT OF TRANSPORTATION 200 WEST CENTER COURT SCHAMBERG, ILLINOIS 60196-1036				576.2
ENERGY SUPPLY CONTACT: COLETTE BOGDAN PHONE: (630) 691-4863				
COMPANY: COM ED - GLENBARD				



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN U.S. ROUTE 20 (LAKE STREET) WALNUT STREET TO YORK ROAD			F.A.P. RTE. 3537	SECTION (4Y&22-3)R-2	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 132
PLCT SCALE = \$SCALE\$	PLCT DATE = 3/19/22/18	CHECKED - PKG	REVISED -		SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	TO STA.	62093	
		DATE	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

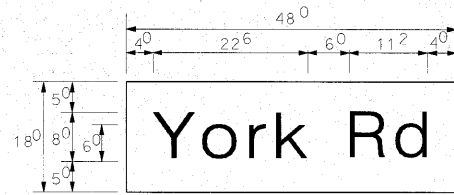


SCHEDULE OF INTERCONNECT QUANTITIES

QUANTITY	UNIT	ITEM
2555	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
150	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
2555	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	DRILL EXISTING HANDHOLE
3959	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C
4011	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

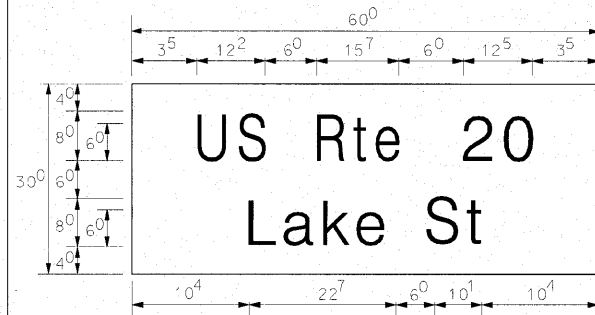
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PANEL SIGN DESIGN TYPE 1



- Sq. M. each
6.0 Sq. Ft. each
2 Required
Design Series D

PANEL SIGN DESIGN TYPE 2



- Sq. M. each
12.5 Sq. Ft. each
2 Required
Design Series D

GENERAL NOTES

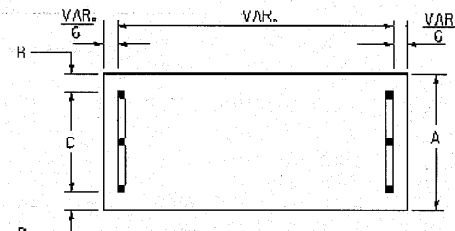
- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN, THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

- * J.O. HERBERT CO. MIDDLETOWN, VA.
- * WESTERN REMAC INC. WOODBRIDGE, IL.

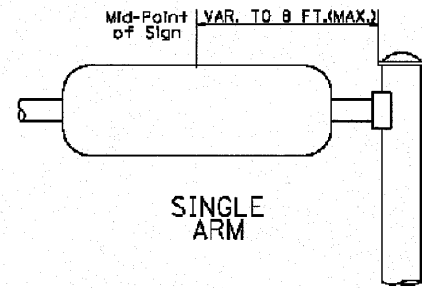
PARTS LISTING
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

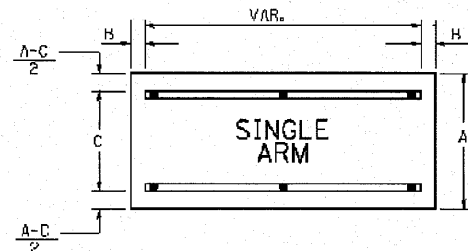
SUPPORTING CHANNELS



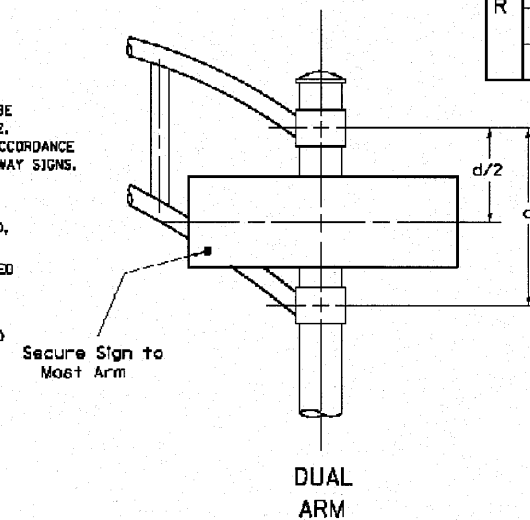
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



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



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

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

SERIES	SECOND LETTER																
	c d e		g o q		b h i k l		m n p r u		f w		j		s t		v y		x z
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	14	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17	
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15	
D O Q R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15	
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12	
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21	
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21	
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14	
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14	
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14	
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14	
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14	
Y	05	06	14	15	06	10	05	06	05	07	05	06	05	10	11	12	
Z	16	17	22	24	16	17	12	14	15	17	15	17	16	17	20	21	

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER																
	c d e		g o q		b h i k l		m n p r u		f w		j		s t		v y		x z
a d h g i j	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17	
l m n q u																	
b f k o p s	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14	
c e	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14	
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10	
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14	
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12	
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14	
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14	

Number To Number
Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
7	12	14	12	14	14	15	12	14	15	12	14	14	15	11	12	14	15	12	14	
8	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17

EXAMPLE, 2³ DENOTES 3/B

UPPER AND LOWER CASE
LETTER WIDTHS

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

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	12	14	15	20
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ³	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -
#FILE#		DRAWN - MAA, SHM	REVISED -
		CHECKED - PKG	REVISED -
		DATE - XX/XX/XX	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

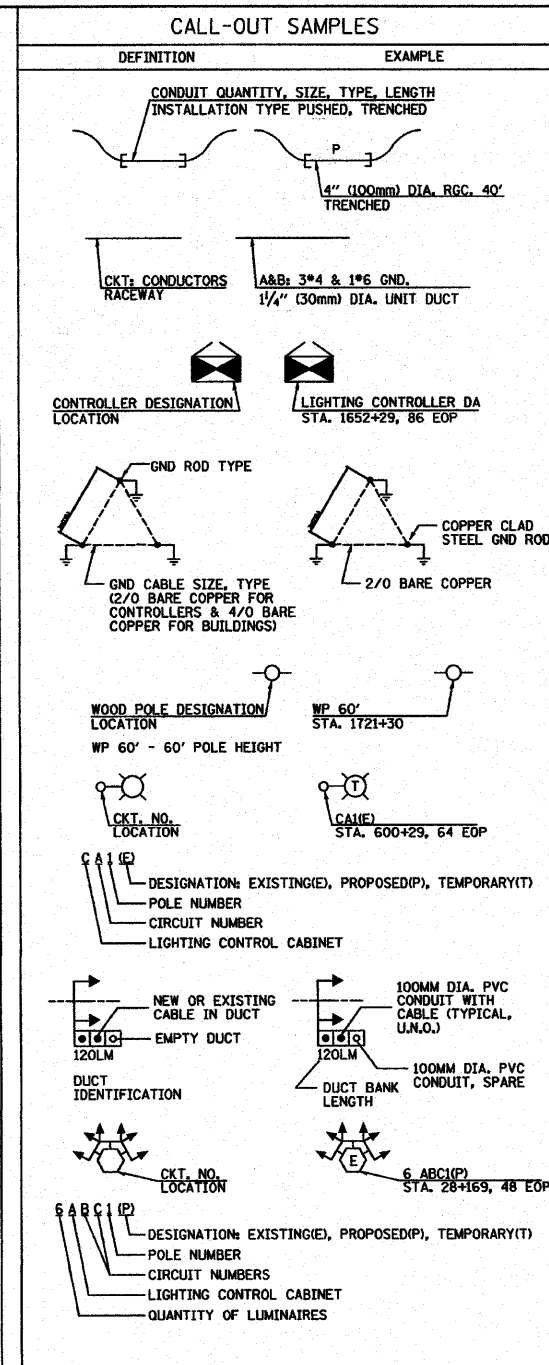
MAST ARM MOUNTED
STREET NAME SIGNS

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

F.A.P. RTE. 3537	SECTION (4Y&22-3)R-2	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 134
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 62093				

ABBREVIATIONS	
SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EOP	EDGE OF PAVEMENT
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
MTG HT	MOUNTING HEIGHT
NO.	NUMBER
PB	PUSH BUTTON
PNL	PANEL
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED, SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UD	UNIT DUCT
WP	WOOD POLE
XFMR	TRANSFORMER

ROADWAY ELECTRICAL SYMBOL	
SYMBOL	DESCRIPTION
	EXISTING HIGH MAST TOWER TO REMAIN
	EXISTING HIGH MAST TOWER TO BE REMOVED
	EXISTING HIGH MAST TOWER TO BE RELOCATED
	PROPOSED HIGH MAST TOWER: 100 FT MOUNTING HEIGHT WITH 400 WATT HIGH PRESSURE SODIUM LUMINAIRES. NUMBER OF LUMINAIRES IS INDICATED ON PLANS.
	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING LIGHTING UNIT TO BE REMOVED
	PROPOSED LIGHTING UNIT: 47.5 FT MOUNTING HEIGHT POLE, 12 FT SINGLE MAST ARM, 310 WATT HIGH PRESSURE SODIUM LUMINAIRE, AND MOUNTED ON BREAKAWAY DEVICE UNLESS OTHERWISE NOTED.
	TEMPORARY LIGHTING UNIT: TEMPORARY WOOD POLE 60 FT., CLASS 4, 50 FT. M.H., 15 FT. MAST ARM, WITH 400 WATT HPS LUMINAIRE, M-C-III
	PROPOSED LIGHTING UNIT WITH 1 HPS 150W LUMINAIRE AND 2-HPS 50W LUMINAIRES
	PROPOSED PEDESTRIAN LIGHTING UNIT WITH 50W HPS LUMINAIRE
	EXISTING UNDERPASS LUMINAIRE
	RIGID GALVANIZED STEEL CONDUIT: THE DIAMETER AND LENGTH AS INDICATED ON THE CONTRACT DRAWINGS, PUSHED (P), IN TRENCH (T).
	UNIT DUCT, WITH 3-1/8 NO. 2 AND 1/8 NO. 4 GROUND 600 V (EPR-TYPE RHW), 1/4" DIAMETER POLYETHYLENE
	EXISTING UNDERGROUND WIRING TO REMAIN
	EXISTING UNIT DUCT TO BE ABANDONED
	EXISTING AERIAL CABLE
	AERIAL CABLE, 3-1/8 NO. 2, ALUMINUM, WITH MESSENGER WIRE
	EXPOSED CONDUIT
	ELECTRIC JUNCTION BOX, TYPE AND SIZE AS INDICATED
	ELECTRIC HANDHOLE
	EXISTING LIGHTING CONTROLLER, DUPLEX
	TEMPORARY WOOD POLE
	EXISTING WOOD POLE
	ELECTRIC GROUND ROD
	EXISTING ELECTRIC CONNECTION TO THE SIGN STRUCTURE, TRUSS TYPE
	GUY WIRE



- GENERAL NOTES:**
- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
 - ALL NEW CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
 - THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS.
 - THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL POLE WIRING AT EACH POLE. THIS SHALL BE CONSIDERED INCIDENTAL TO THE LIGHT POLE PAY ITEMS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THIS ITEM.
 - ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
 - FOR THE EXISTING LIGHT POLE AND FOUNDATIONS THAT ARE TO BE REMOVED, THE ASSOCIATED UNDERGROUND CONDUITS AND CABLE SHALL BE SEPARATED FROM RESPECTIVE FOUNDATIONS AT 760mm (2.5 FEET) BELOW GRADE AND SHALL BE ABANDONED.
 - EXISTING UNDERGROUND WIRING SHOWN ON PLANS IS DIAGRAMMATIC. CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING WIRING TO EXISTING LIGHTING TO REMAIN. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEMS FOR "TEMPORARY WOOD POLE, 60 FT., CLASS 4. NO SEPARATE PAYMENT WILL BE MADE.
 - ALL LIGHTING EQUIPMENT REMOVED AS PART OF THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED TO STATE'S ELECTRICAL MAINTENANCE CONTRACTOR'S FACILITY LOCATED WITHIN DISTRICT 1 IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 - CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 36" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
 - WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
 - WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
 - THE CONTRACTOR SHALL INSTALL THE PROPOSED UNIT DUCTS/CABLES IN THE EXISTING CONDUITS IN THE CONTROLLER FOUNDATION AND REMOVE THE UNIT DUCTS/CABLES TO BE ABANDONED OR REMOVED FROM THE CONDUIT. THE CONTRACTOR SHALL NOT DRILL THE EXISTING CONTROLLER FOUNDATION FOR INSTALLATION OF ADDITIONAL CONDUITS.
 - WHEREVER THE TEMPORARY AERIAL CABLE IS REQUIRED TO CROSS AN EXISTING AND/OR PROPOSED ROADWAY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWENTY (20) FEET OF VERTICAL CLEARANCE OVER THE ROADWAY AT ALL TIME.
 - ALL TEMPORARY WOOD POLES AND TEMPORARY LIGHT POLES SHALL BE SET BACK A MINIMUM OF 6 FEET BEHIND THE CURB OR 17 FEET BEHIND THE EDGE OF PAVEMENT WHERE THE CURB AND/OR GUARD RAIL DOES NOT EXIST.

ROADWAY LIGHTING SCHEDULE OF QUANTITIES

DESIGNATION	ITEM QUANTITY	
	UNITS	CONTRACT TOTAL
CONDUIT PUSHED, 3" DIA. GALVANIZED STEEL	FOOT	894
HANDHOLE(SPECIAL)	EACH	4
UNIT DUCT, WITH 3-1/8 NO. 2 AND 1/8 NO. 4 GROUND 600 V (EPR-TYPE RHW), 1/4" DIA., SCHEDULE 40, POLYETHYLENE	FOOT	6419
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6370
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	3
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	3
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	38
LIGHT POLE, ALUMINUM, 47.5 FT. MOUNTING HEIGHT 12 FT. MAST ARM	EACH	3
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	99
LIGHT TOWER FOUNDATION, 42" DIAMETER	FOOT	154
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	3
REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	5
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	2
RELOCATE EXISTING LIGHT TOWER	EACH	7
REMOVE TEMPORARY WOOD POLE	EACH	20
LIGHT TOWER SERVICE PAD	EACH	7
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	3
REMOVE AND REPLACE LIGHTING UNIT IDENTIFICATION DECAL	EACH	7
AERIAL CABLE, 3-1/8 NO. 2 AWG, ALUMINUM, WITH MESSENGER WIRE	FOOT	4222
REMOVAL OF EXISTING LIGHT TOWER AND SALVAGE	EACH	1
REMOVE LIGHT TOWER FOUNDATION, PARTIAL	EACH	8
GROUND ROD, 5/8" DIA. X 10 FT.	EACH	42
TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	3
TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	20
UNIT DUCT, WITH 5-1/8 NO. 6, 3-1/8 NO. 2, AND 1/8 NO. 6 GROUND 2" DIA., SCHEDULE 40, POLYETHYLENE	FOOT	329
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 150W, INSTALL ONLY	EACH	4
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 50W, INSTALL ONLY	EACH	12
PEDESTRIAN LIGHT POLE, INSTALL ONLY	EACH	4
ROADWAY LIGHT POLE, INSTALL ONLY	EACH	4
BREAKER, MAIN	EACH	2

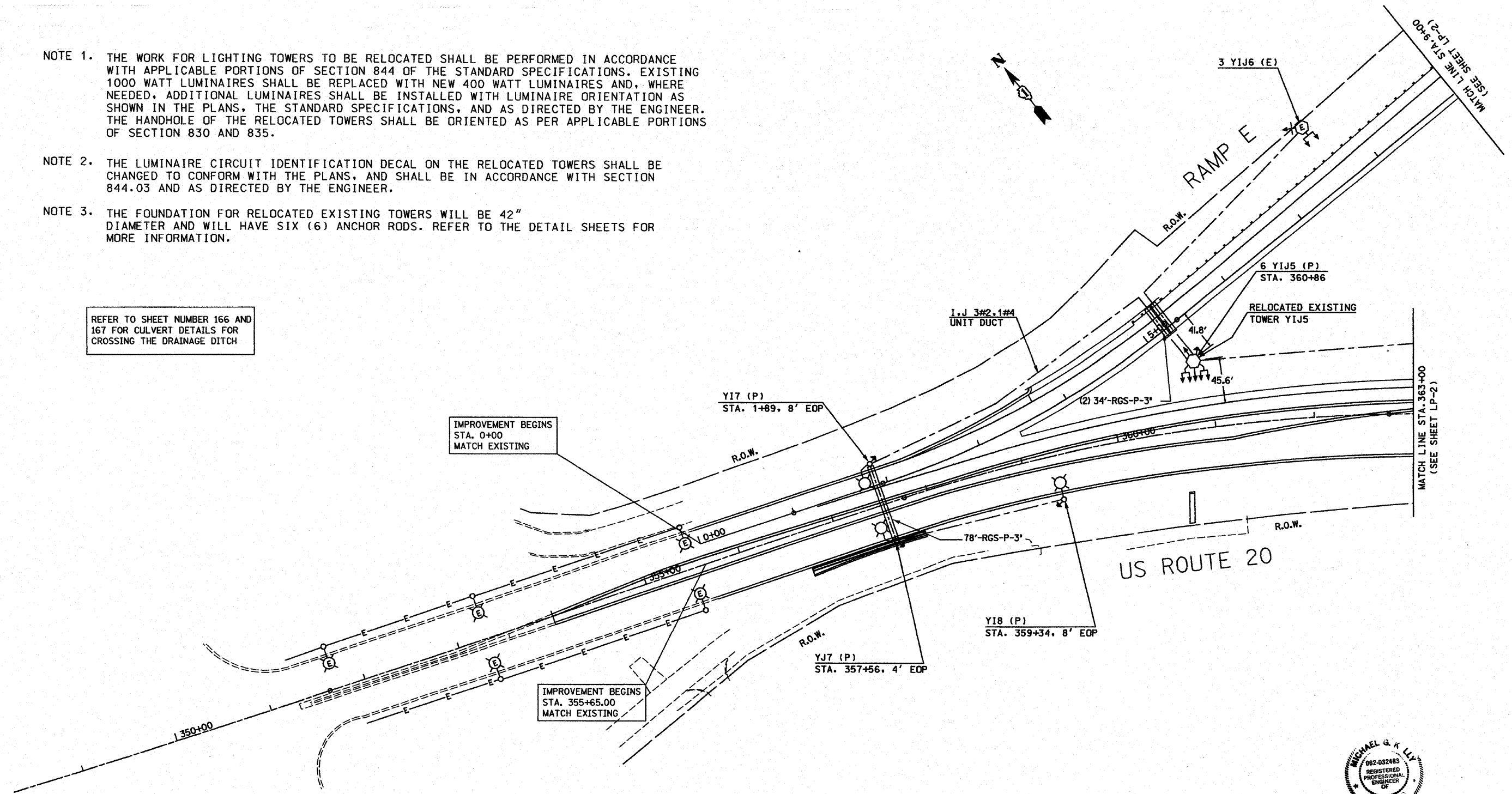


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Expires 11/30/2011

INDEX OF SHEETS	
LS	ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND QUANTITIES
LP-1, LP-2, LP-3, LP-4	PROPOSED ROADWAY LIGHTING PLANS
LT-1, LT-2, LT-3	TEMPORARY ROADWAY LIGHTING PLANS FOR CONSTRUCTION STAGE 1
LT-4, LT-5, LT-6	TEMPORARY ROADWAY LIGHTING PLANS FOR CONSTRUCTION STAGES 2&3
LR-1, LR-2, LR-3	ROADWAY LIGHTING REMOVAL PLANS
LPW	PROPOSED LIGHTING WIRING DIAGRAM
LTW-1	TEMPORARY LIGHTING WIRING DIAGRAM FOR CONSTRUCTION STAGE 1
LTW-2	TEMPORARY LIGHTING WIRING DIAGRAM FOR CONSTRUCTION STAGES 2&3

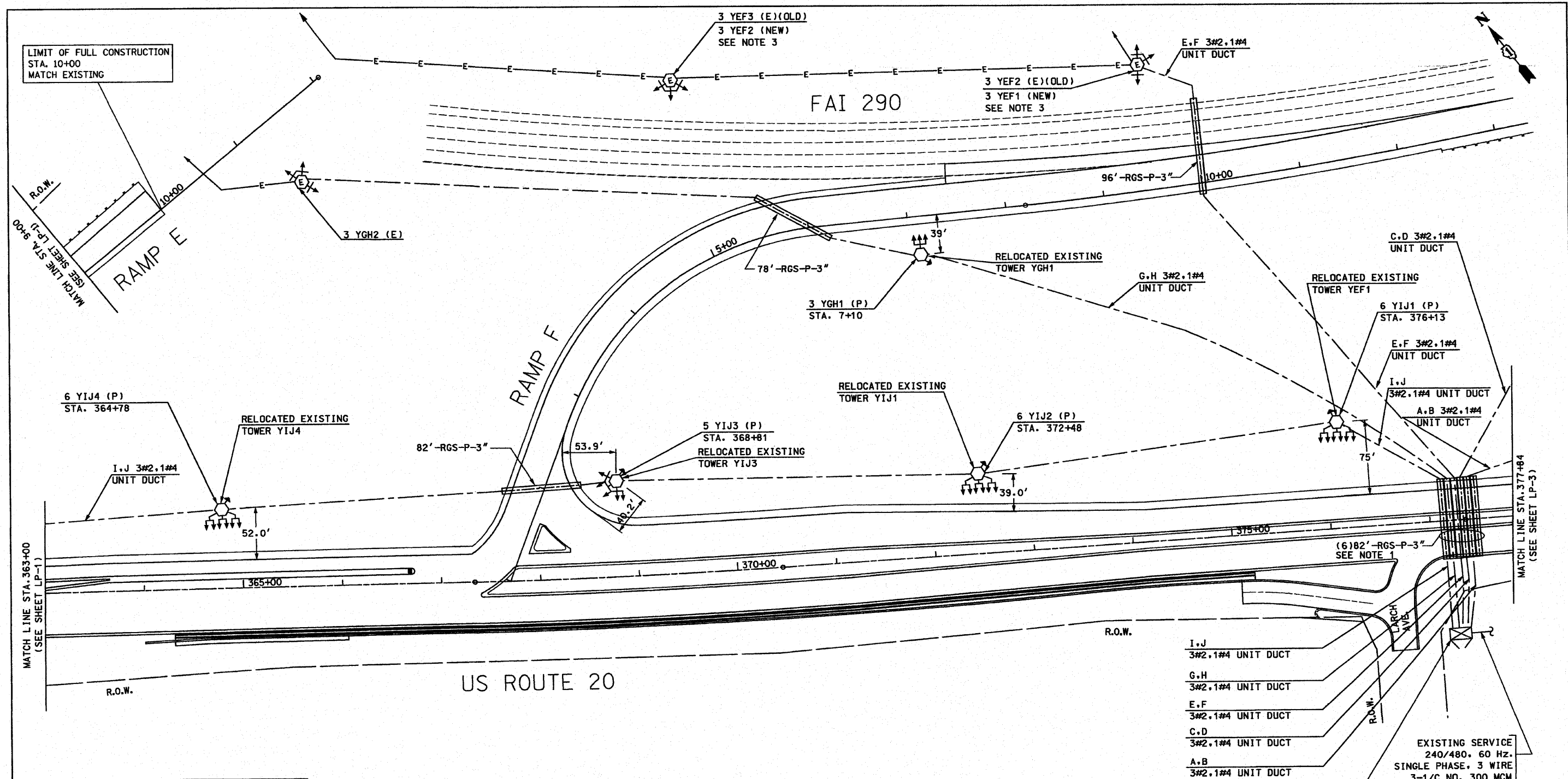
- NOTE 1. THE WORK FOR LIGHTING TOWERS TO BE RELOCATED SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 844 OF THE STANDARD SPECIFICATIONS. EXISTING 1000 WATT LUMINAIRES SHALL BE REPLACED WITH NEW 400 WATT LUMINAIRES AND, WHERE NEEDED, ADDITIONAL LUMINAIRES SHALL BE INSTALLED WITH LUMINAIRE ORIENTATION AS SHOWN IN THE PLANS, THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THE HANDHOLE OF THE RELOCATED TOWERS SHALL BE ORIENTED AS PER APPLICABLE PORTIONS OF SECTION 830 AND 835.
- NOTE 2. THE LUMINAIRE CIRCUIT IDENTIFICATION DECAL ON THE RELOCATED TOWERS SHALL BE CHANGED TO CONFORM WITH THE PLANS, AND SHALL BE IN ACCORDANCE WITH SECTION 844.03 AND AS DIRECTED BY THE ENGINEER.
- NOTE 3. THE FOUNDATION FOR RELOCATED EXISTING TOWERS WILL BE 42" DIAMETER AND WILL HAVE SIX (6) ANCHOR RODS. REFER TO THE DETAIL SHEETS FOR MORE INFORMATION.

REFER TO SHEET NUMBER 166 AND 167 FOR CULVERT DETAILS FOR CROSSING THE DRAINAGE DITCH



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FILE NAME =	USER NAME = _GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) PROPOSED LIGHTING (SHEET 1 OF 3) STA. 355+65 TO STA. 363+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - MAA, SHM	REVISED -			3537	(4Y&22-3R-2)	DuPage	284	136	
PLOT SCALE = #SCALE#		CHECKED - PKG	REVISED -			CONTRACT NO. D-91-533-00					
PLOT DATE = 3/19/2010		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
				SCALE: 1"=50'		SHEET NO. OF SHEETS		STA. TO STA.		LP-1	



LIMIT OF FULL CONSTRUCTION
STA. 10+00
MATCH EXISTING

REFER TO SHEET NUMBER 166 AND
167 FOR CULVERT DETAILS FOR
CROSSING THE DRAINAGE DITCH

- NOTE 1. THE 3" RGS SPARE CONDUIT WILL BE CAPPED AT BOTH ENDS AS DIRECTED BY THE ENGINEER.
- NOTE 2. THE CONTRACTOR SHALL VERIFY THE EXISTING 2 POLE, 175 AMP MAIN BREAKERS IN THE LIGHTING CONTROLLER "Y" AND REPLACE THEM WITH 2 POLE, 225 AMP, SENTRON MOLDED CASE CIRCUIT BREAKERS, CATALOG # FXD62B225, SIEMENS INDUSTRY, INC OR APPROVED EQUAL. THE BREAKERS SHALL HAVE AUXILIARY SWITCH CATALOG # A01FD64 OR APPROVED EQUAL.
- NOTE 3. IN THE PROPOSED LIGHTING SYSTEM, THE EXISTING CIRCUIT IDENTIFICATION DECALS ON THE EXISTING TOWERS ON CIRCUITS "E" AND "F" SHALL BE REPLACED WITH NEW DECALS TO START WITH EF1 ON THE EXISTING LIGHTING TOWER WITH EXISTING DESIGNATION EF2. THE DECALS FOR THE "E" AND "F" CIRCUITS SHALL END WITH EF7 ON THE EXISTING LIGHTING TOWER WITH EXISTING DESIGNATION EF8.

- I+J
3#2.1#4 UNIT DUCT
 - G.H
3#2.1#4 UNIT DUCT
 - E.F
3#2.1#4 UNIT DUCT
 - C.D
3#2.1#4 UNIT DUCT
 - A.B
3#2.1#4 UNIT DUCT
- EXISTING SERVICE
240/480, 60 Hz.
SINGLE PHASE, 3 WIRE
3-1/C NO. 300 MCM
SERVICE CABLE

EXISTING LIGHTING
CONTROLLER "Y"
STA. 377+22
SEE NOTE 2

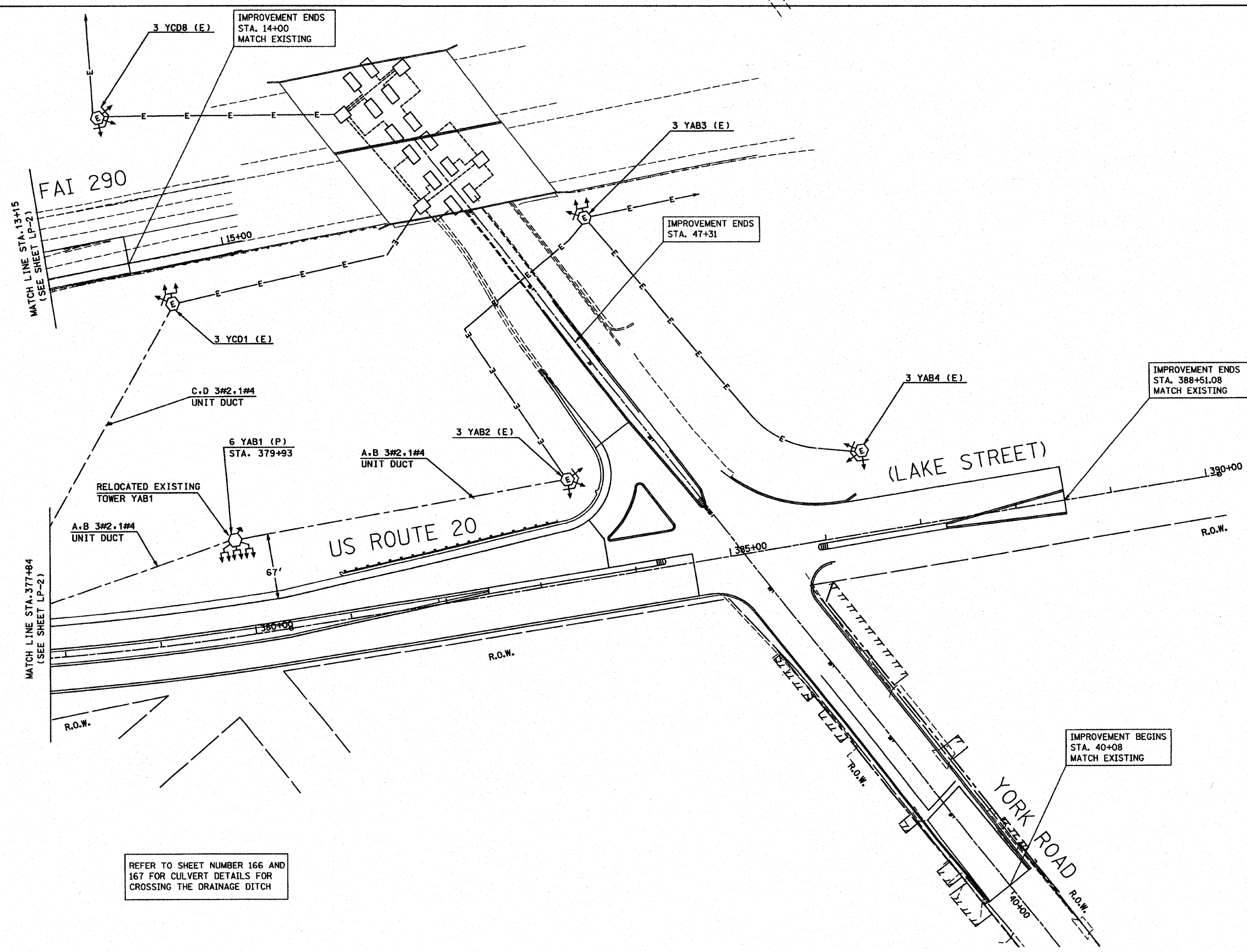


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U.S. ROUTE 20 (LAKE STREET)
PROPOSED LIGHTING
SHEET 2 OF 3
STA. 362+08 TO STA. 377+84

FILE NAME =	USER NAME = _GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) PROPOSED LIGHTING (SHEET 2 OF 3) STA. 363+00 TO STA. 377+84			F.A.P. RTE. 3537	SECTION (4Y&22-3R-2)	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 137			
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	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -												

LP-2



REFER TO SHEET NUMBER 166 AND 167 FOR CULVERT DETAILS FOR CROSSING THE DRAINAGE DITCH

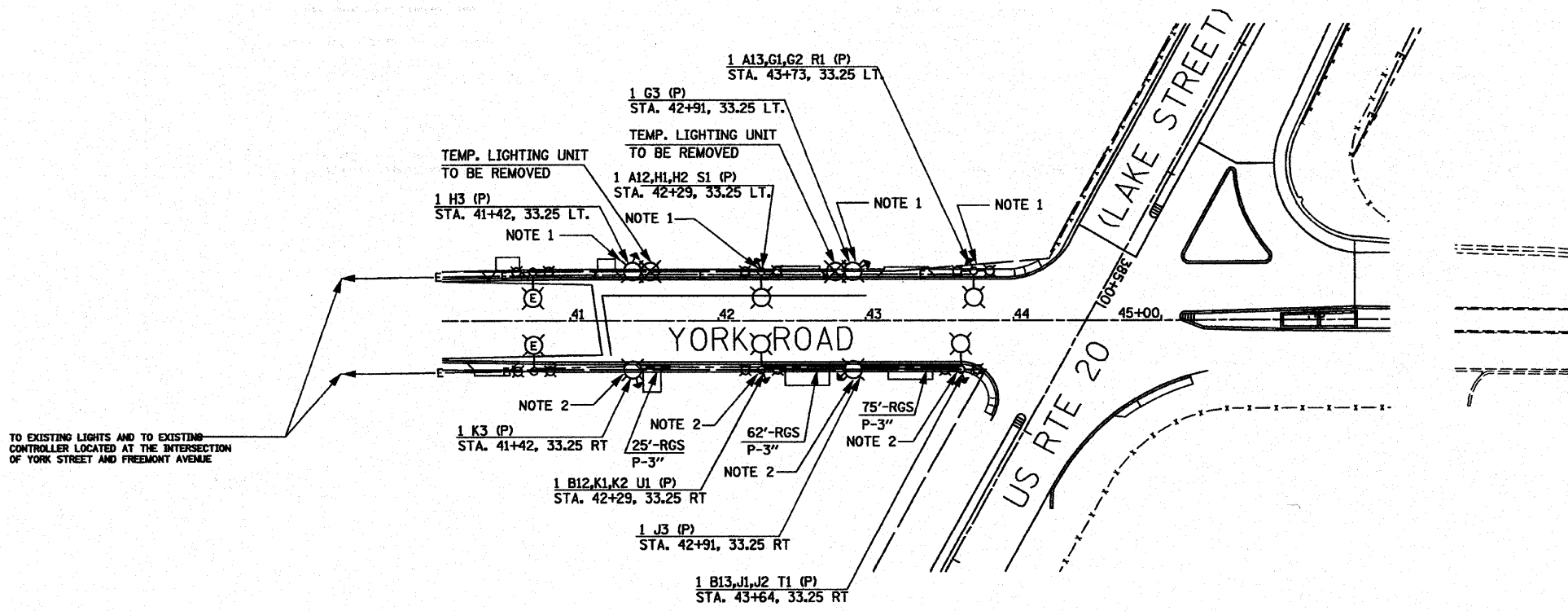
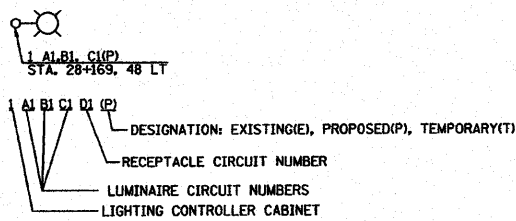
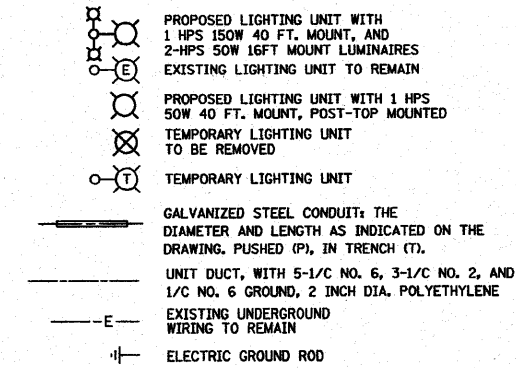


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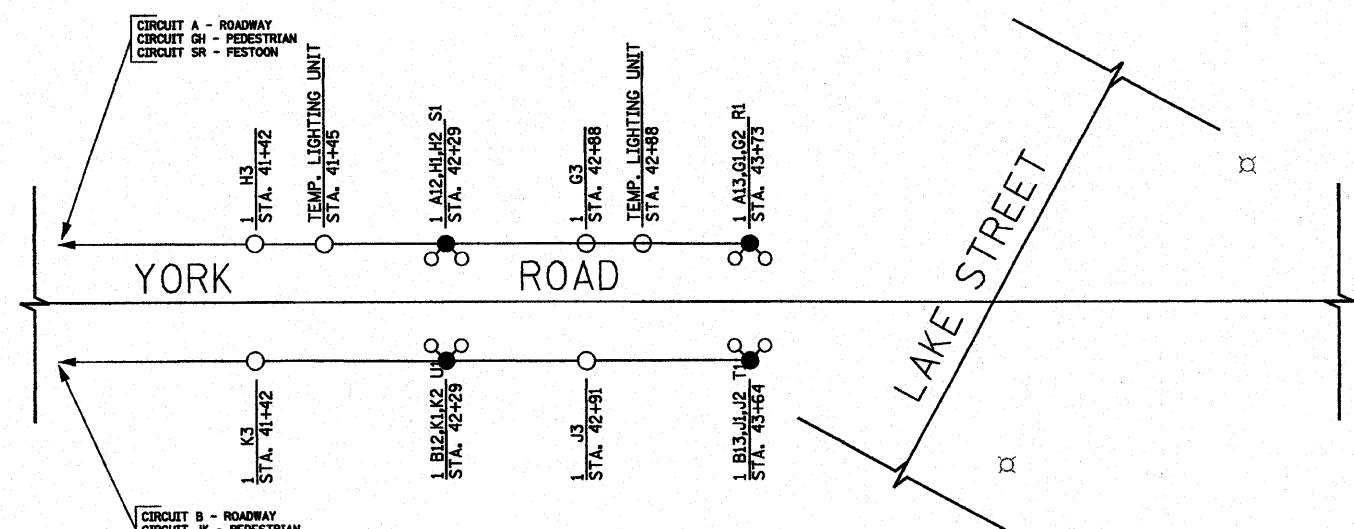
LP-3

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) PROPOSED LIGHTING (SHEET 3 OF 3) STA. 377+84 TO STA. 388+51	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = #SCALE#	DRAWN - MAA, SHM	REVISED -			3537	(4Y&22-31R-2)	DuPage	284	138	
	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -			CONTRACT NO. D-91-533-00					
		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
				SCALE: 1"=50'		SHEET NO. OF SHEETS		STA. TO STA.			

LEGEND FOR YORK ROAD LIGHTING



TO EXISTING LIGHTS AND TO EXISTING CONTROLLER LOCATED AT THE INTERSECTION OF YORK STREET AND FREEMONT AVENUE



WIRING DIAGRAM

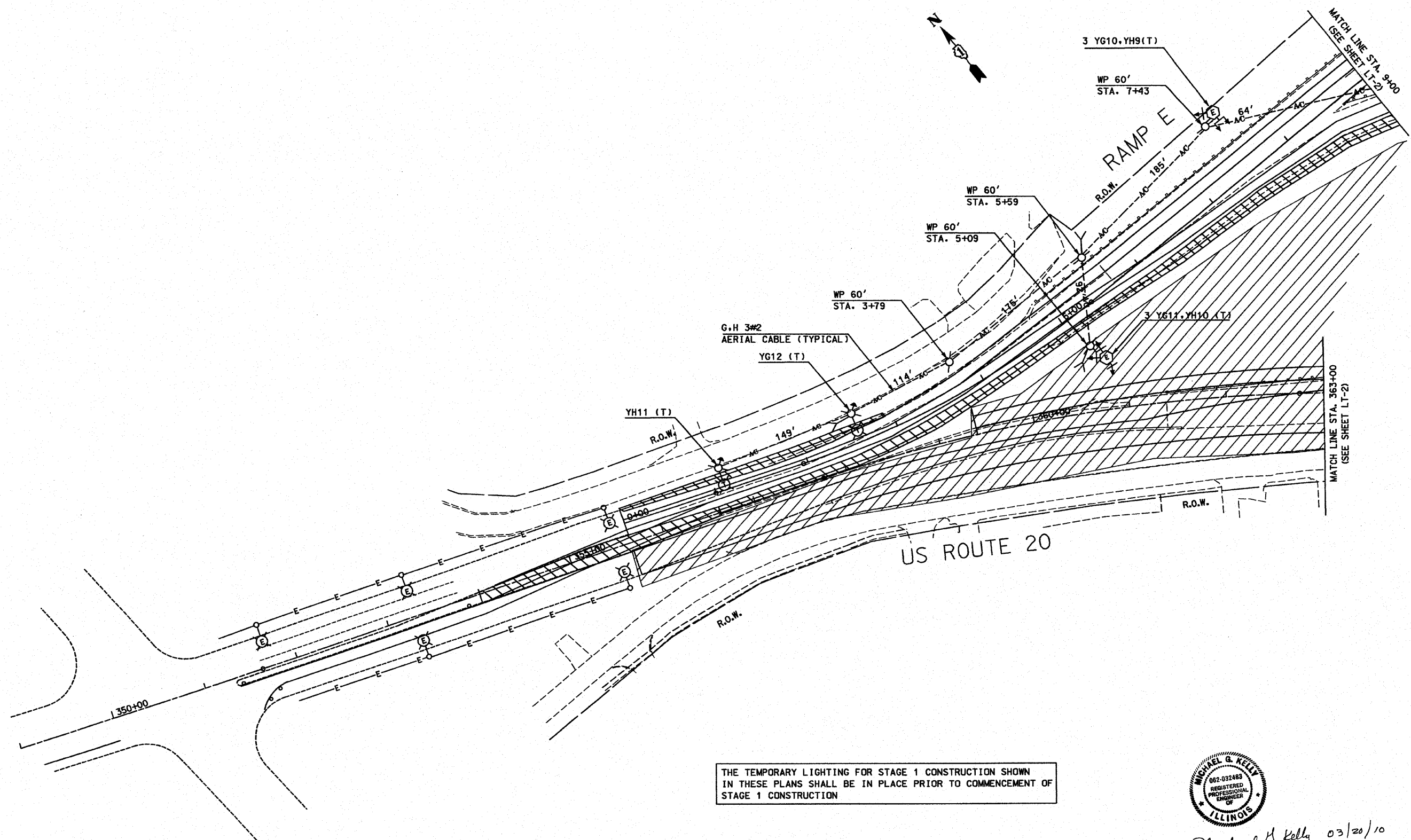
CIRCUIT NUMBERS SHOWN ON THIS SHEET ARE BASED ON THE PLANS PREPARED PER CONTRACT NUMBER 83510, JOB NUMBER C-91-006-99

- NOTE 1. THE CONTRACTOR SHALL PICK UP THE STREET LIGHTING POLES, 40' MOUNTING HEIGHT, 8' MAST ARM AND THE PEDESTRIAN LIGHTING POLES, 16' MOUNTING HEIGHT, INCLUDING STREET LIGHTING AND PEDESTRIAN LIGHTING LUMINAIRES FROM CITY OF ELMHURST'S STORAGE FACILITY AND INSTALL THEM ON THE NEW FOUNDATION TO BE INSTALLED UNDER THIS CONTRACT. THE UNIT DUCTS FOR THESE POLES **HAVE BEEN INSTALLED** UNDER SEPARATE CONTRACT AND SHALL BE CONNECTED TO THE POLES AS APPROPRIATE AND AS DIRECTED BY THE ENGINEER.
- NOTE 2. THE CONTRACTOR SHALL PICK-UP THE STREET LIGHTING POLES, 40' MOUNTING HEIGHT, 8' MAST ARM AND THE PEDESTRIAN LIGHTING POLES, 16' MOUNTING HEIGHT, INCLUDING STREET LIGHTING AND PEDESTRIAN LIGHTING LUMINAIRES FROM CITY OF ELMHURST'S STORAGE FACILITY AND INSTALL THEM ON THE NEW FOUNDATION TO BE INSTALLED UNDER THIS CONTRACT. THE UNIT DUCTS FOR THESE POLES **WILL BE INSTALLED** UNDER THIS CONTRACT AND SHALL BE CONNECTED TO THE POLES AS APPROPRIATE AND AS DIRECTED BY THE ENGINEER.
- NOTE 3. THE CONTRACTOR SHALL CONTACTOR THE CITY OF ELMHURST NO LESS THAN (7) DAYS PRIOR TO DESIRED PICK-UP DATE FOR MATERIALS AT (630) 530-3020. THE CONTRACTOR SHALL RETRIEVE THE MATERIALS FROM CITY OF ELMHURST'S FACILITY, TRANSPORT AND INSTALL, HANDLE AND STORE (AS APPLICABLE) IN COMPLETE CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATION.



Michael S. Kelly 03/20/10
 Expires 11/30/2011

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING AND WIRING DIAGRAM FOR YORK ROAD SOUTH OF U.S. ROUTE 20 (LAKE STREET)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



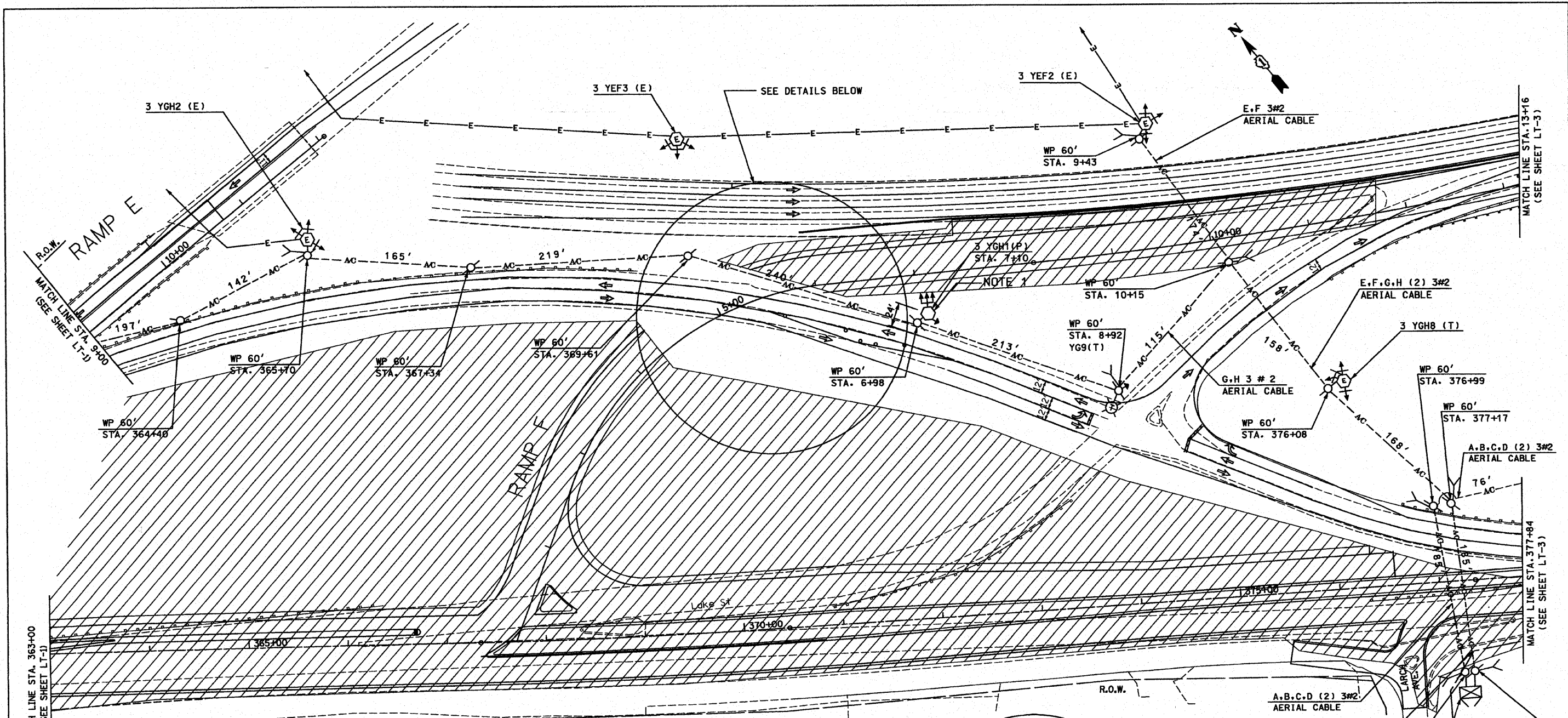
THE TEMPORARY LIGHTING FOR STAGE 1 CONSTRUCTION SHOWN IN THESE PLANS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF STAGE 1 CONSTRUCTION



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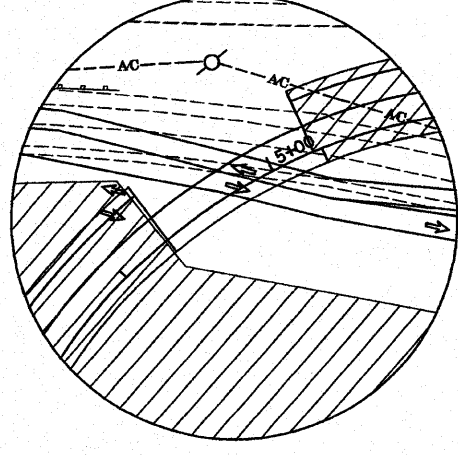
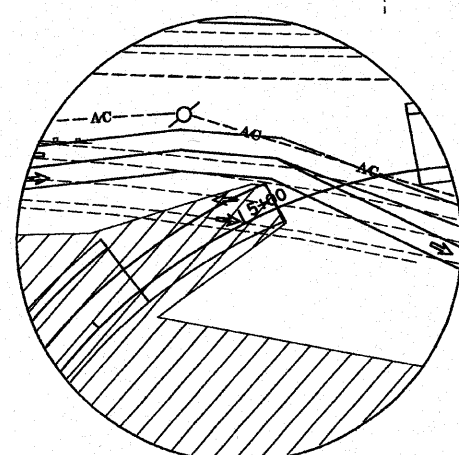
LT-1

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING FOR CONSTRUCTION STAGE 1 U.S. ROUTE 20 (LAKE STREET) SHEET 1 OF 3 STA. 355+65 TO STA. 363+00			F.A.P. RTE. 3537	SECTION (4Y&22-3JR-2)	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 140
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	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



NOTE 1. THE EXISTING LIGHT TOWER YGH1 SHALL BE RELOCATED TO STA. 7+10 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT REMOVE THE EXISTING TOWER UNTIL THE FOUNDATION AT THE PROPOSED LOCATION IS IN PLACE, WITH ALL ELECTRICAL CONNECTIONS, TO MAKE IT OPERATIONAL THE SAME DAY.

THE TEMPORARY LIGHTING FOR STAGE 1 CONSTRUCTION SHOWN IN THESE PLANS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF STAGE 1 CONSTRUCTION



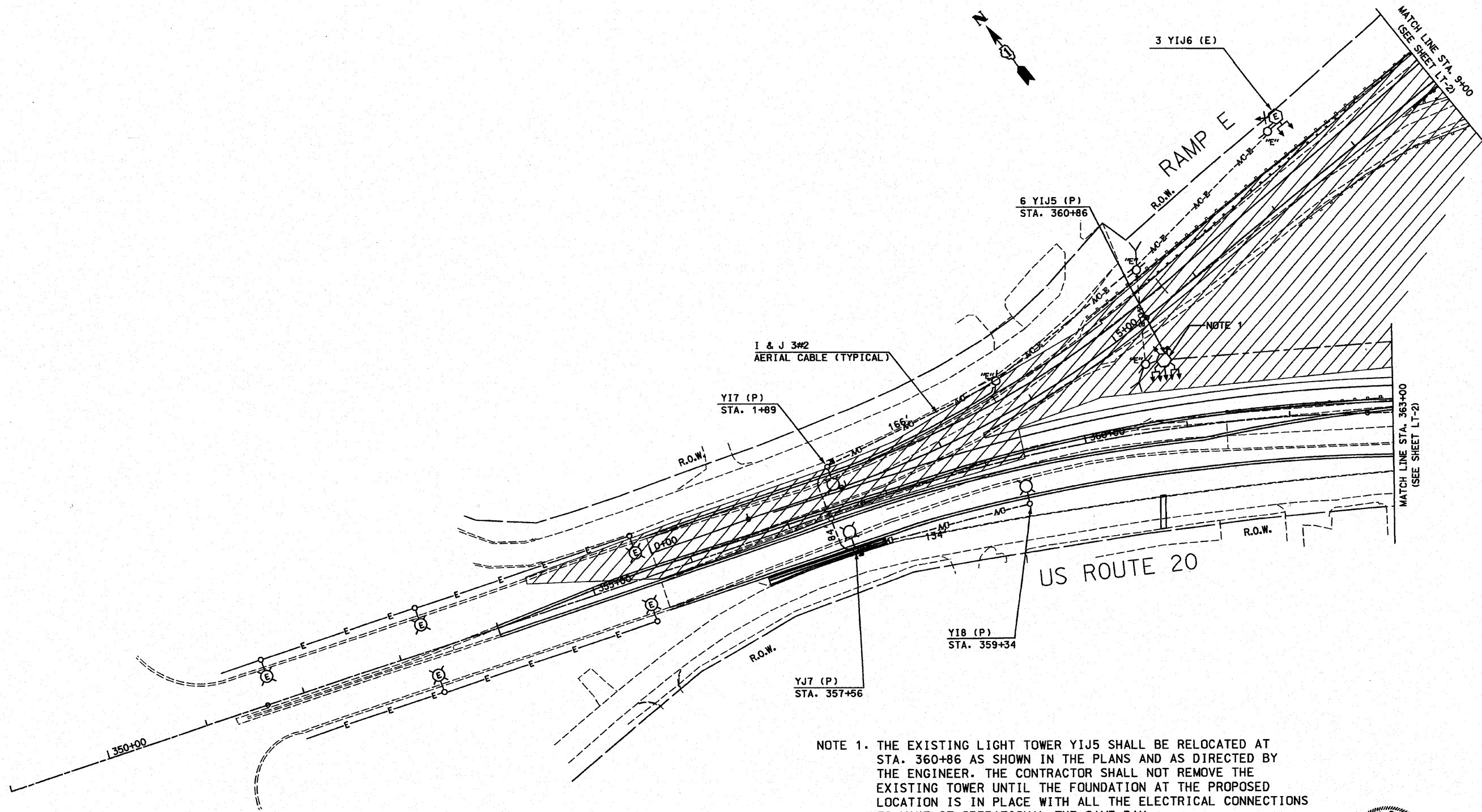
DETAIL FOR STAGE 1a

DETAIL FOR STAGE 1b



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Expires 11/30/2011

FILE NAME = *FILEL*	USER NAME = .GAL.	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING FOR CONSTRUCTION STAGE 1 U.S. ROUTE 20 (LAKE STREET) SHEET 2 OF 3 STA. 363+00 TO STA. 377+84			F.A.P. RTE. 3537	SECTION (4Y&22-3JR-2)	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 141
	PLOT SCALE = #SCALE#	DRAWN - MAA, SHM	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. D-91-533-00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT DATE = 3/19/2010	CHECKED - PKG	DATE -	REVISED -									



NOTE 1. THE EXISTING LIGHT TOWER YIJ5 SHALL BE RELOCATED AT STA. 360+86 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT REMOVE THE EXISTING TOWER UNTIL THE FOUNDATION AT THE PROPOSED LOCATION IS IN PLACE WITH ALL THE ELECTRICAL CONNECTIONS TO MAKE IT OPERATIONAL THE SAME DAY.

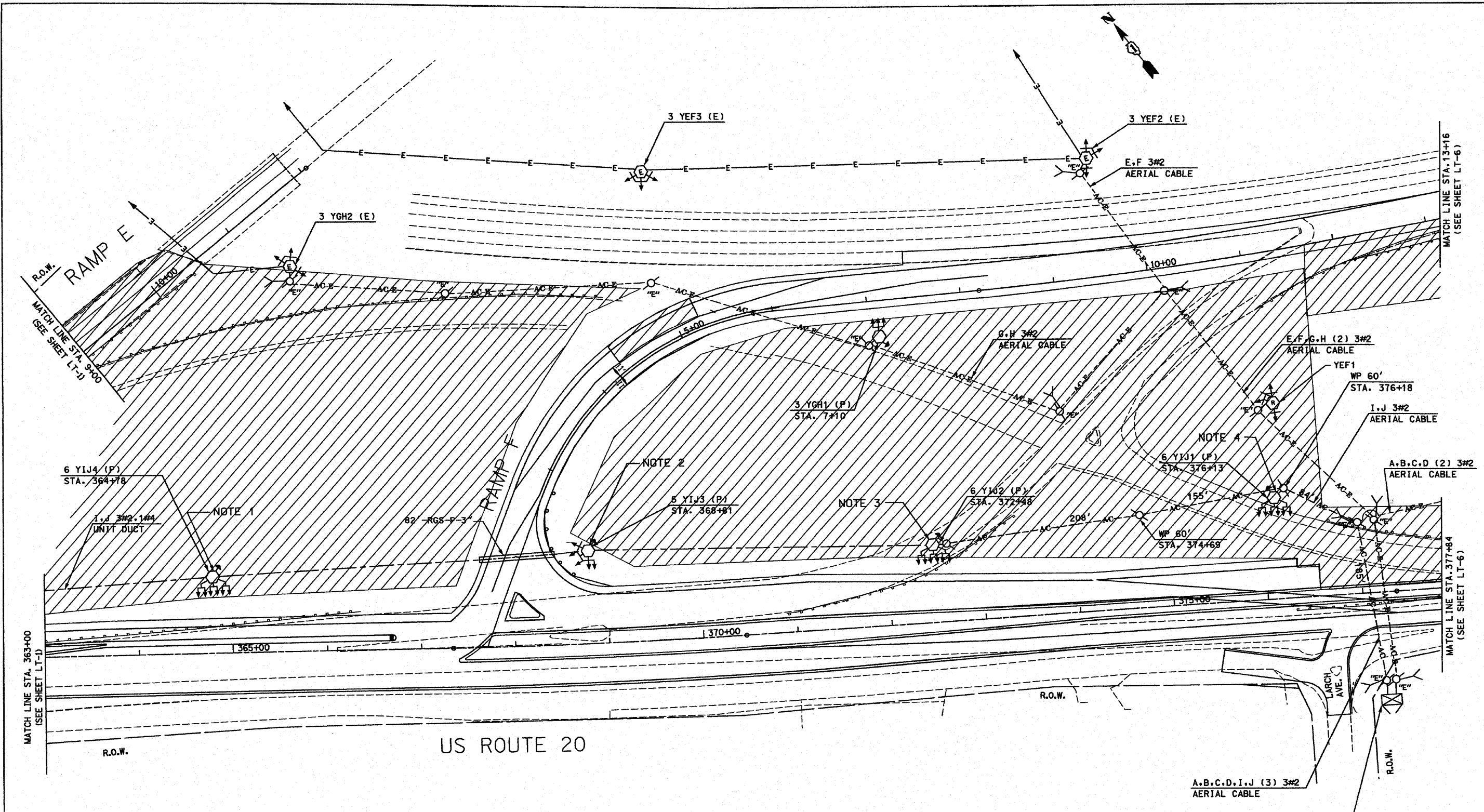
THE TEMPORARY LIGHTING FOR STAGES 2 AND 3 SHOWN IN THESE PLANS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF STAGE 2 CONSTRUCTION



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Expires 11/30/2011

LT-4

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING FOR CONSTRUCTION STAGES 2 AND 3 U.S. ROUTE 20 (LAKE STREET) SHEET 1 OF 3 STA. 355+65 TO STA. 363+00			F.A.P. RTE. 3537	SECTION (4Y&22-3R-2)	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 143
FILE#	PLOT SCALE = *SCALE*	DRAWN - MAA, SHM	REVISED -		SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. D-91-533-00		
	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



- NOTE 1. THE EXISTING LIGHT TOWER YIJ4 SHALL BE RELOCATED TO STA. 364+78 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER
- NOTE 2. THE EXISTING LIGHT TOWER YIJ3 SHALL BE RELOCATED TO STA. 368+81 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER
- NOTE 3. THE EXISTING LIGHT TOWER YIJ2 SHALL BE RELOCATED TO STA. 372+48 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER
- NOTE 4. THE EXISTING LIGHT TOWER YIJ1 SHALL BE RELOCATED TO STA. 376+13 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER

THE TEMPORARY LIGHTING FOR STAGES 2 AND 3 SHOWN IN THESE PLANS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF STAGE 2 CONSTRUCTION

A.B.C.D.I.J (3) 3#2
AERIAL CABLE

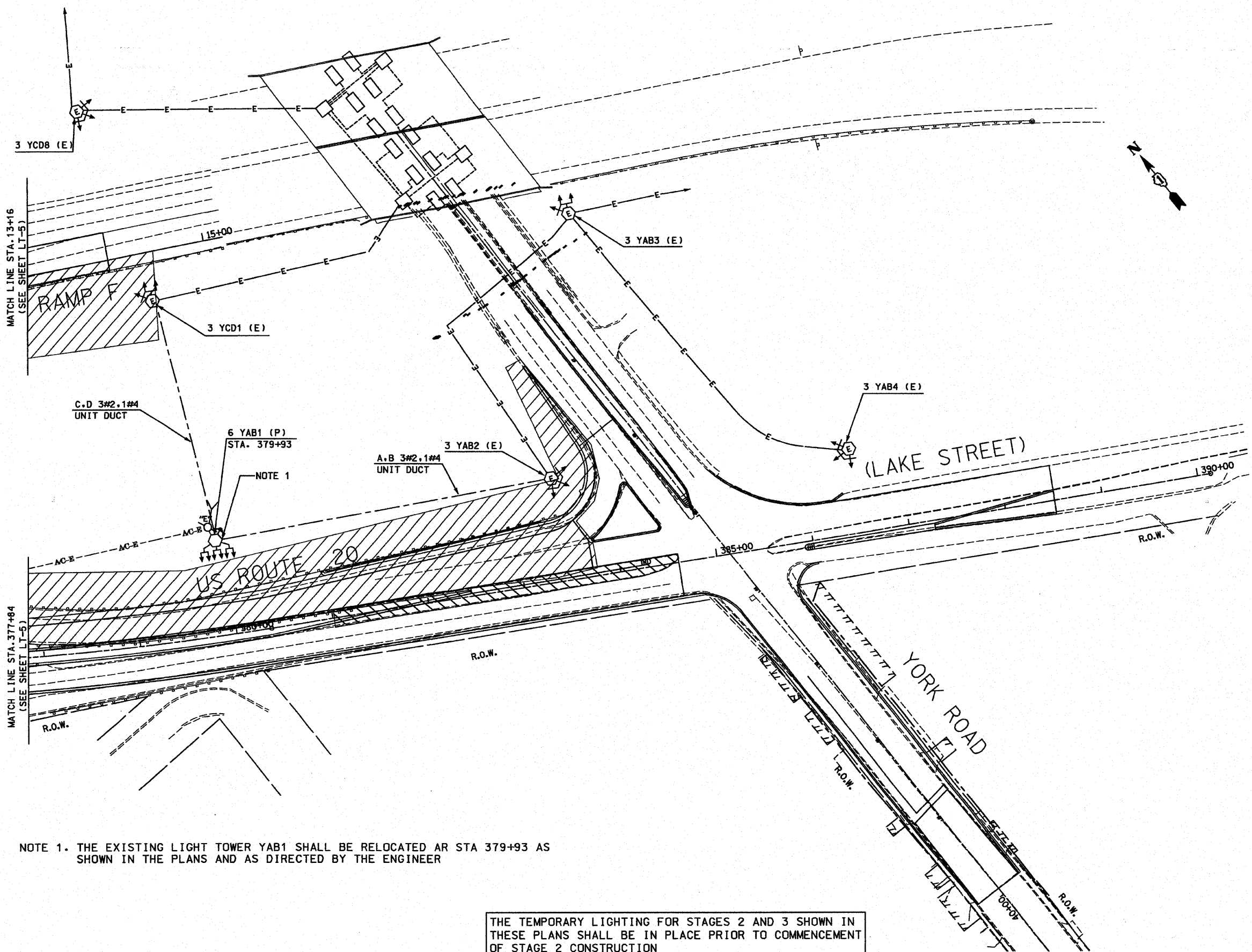
EXISTING LIGHTING
CONTROLLER "Y"
STA. 377+22



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LT-5

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING FOR CONSTRUCTION STAGES 2 AND 3 U.S. ROUTE 20 (LAKE STREET) SHEET 2 OF 3 STA. 363+00 TO STA. 377+84			F.A.P. RTE. 3537	SECTION (4Y&22-3R-2)	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 144
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	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



NOTE 1. THE EXISTING LIGHT TOWER YAB1 SHALL BE RELOCATED AT STA 379+93 AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER

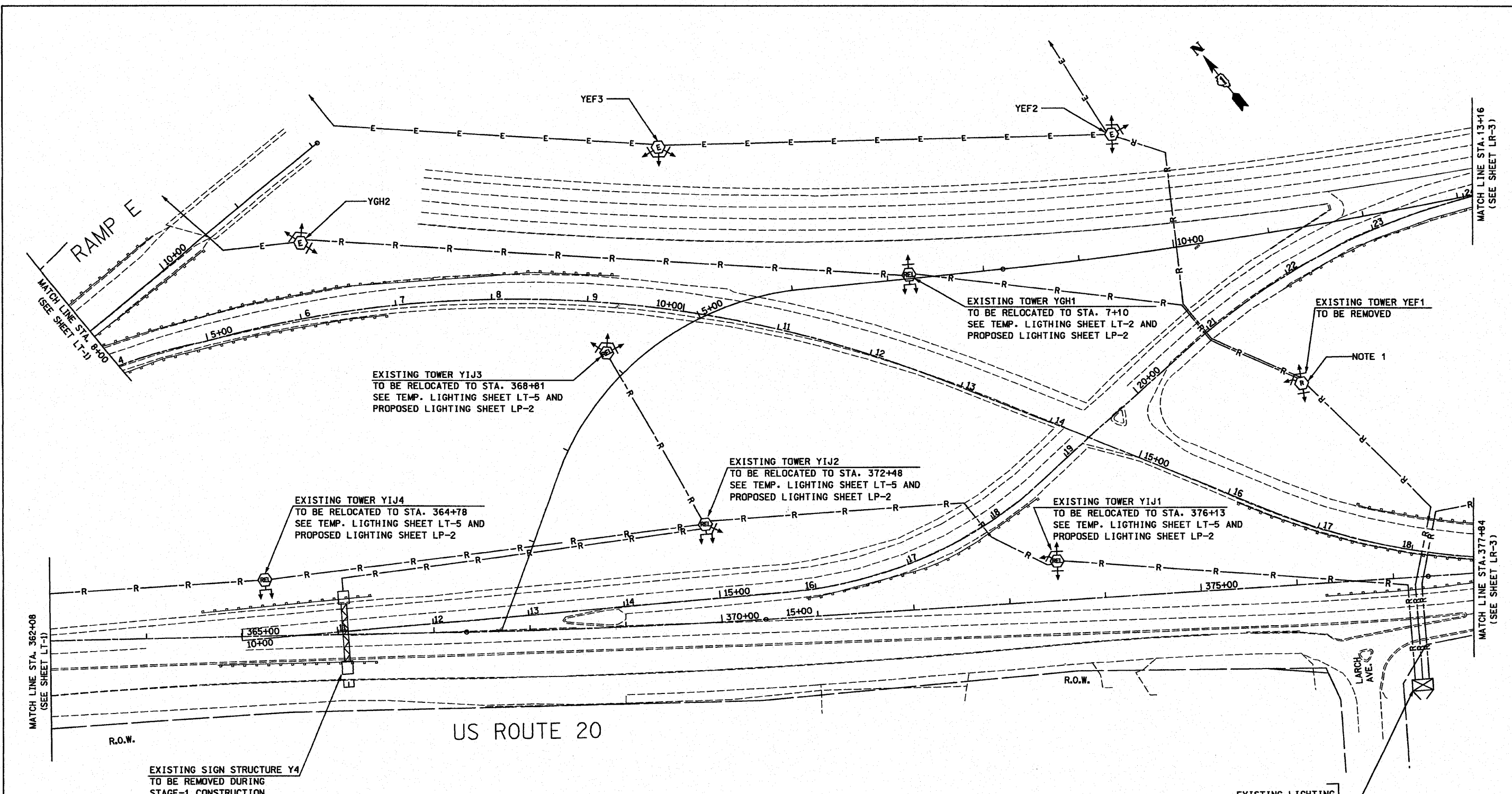
THE TEMPORARY LIGHTING FOR STAGES 2 AND 3 SHOWN IN THESE PLANS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF STAGE 2 CONSTRUCTION



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Expires 11/30/2011

LT-6

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING FOR CONSTRUCTION STAGES 2 AND 3 U.S. ROUTE 20 (LAKE STREET) SHEET 3 OF 3 STA. 377+84 TO STA. 388+51	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED - PKG	REVISED -			CONTRACT NO. D-91-533-00					
		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
	PLOT SCALE = #SCALE#			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.				
	PLOT DATE = 3/19/2010										



EXISTING TOWER YI13
TO BE RELOCATED TO STA. 368+81
SEE TEMP. LIGHTING SHEET LT-5 AND
PROPOSED LIGHTING SHEET LP-2

EXISTING TOWER YI14
TO BE RELOCATED TO STA. 364+78
SEE TEMP. LIGHTING SHEET LT-5 AND
PROPOSED LIGHTING SHEET LP-2

EXISTING TOWER YI12
TO BE RELOCATED TO STA. 372+48
SEE TEMP. LIGHTING SHEET LT-5 AND
PROPOSED LIGHTING SHEET LP-2

EXISTING TOWER YI11
TO BE RELOCATED TO STA. 376+13
SEE TEMP. LIGHTING SHEET LT-5 AND
PROPOSED LIGHTING SHEET LP-2

EXISTING TOWER YGH1
TO BE RELOCATED TO STA. 7+10
SEE TEMP. LIGHTING SHEET LT-2 AND
PROPOSED LIGHTING SHEET LP-2

EXISTING TOWER YEF1
TO BE REMOVED

EXISTING SIGN STRUCTURE Y4
TO BE REMOVED DURING
STAGE-1 CONSTRUCTION

NOTE 1. THIS EXISTING LIGHT TOWER IN THE NORTHEAST CORNER OF THE EXISTING INTERSECTION WESTBOUND LAKE STREET AND EASTBOUND I-290 ON RAMP, SHALL REMAIN IN PLACE AND IN OPERATION DURING STAGE 1 CONSTRUCTION AND SHALL BE REMOVED ONLY AFTER THE LAKE STREET AS WELL AS THE RAMP ARE CLOSED TO TRAFFIC AS SHOWN HERE AND AS DIRECTED BY THE ENGINEER.

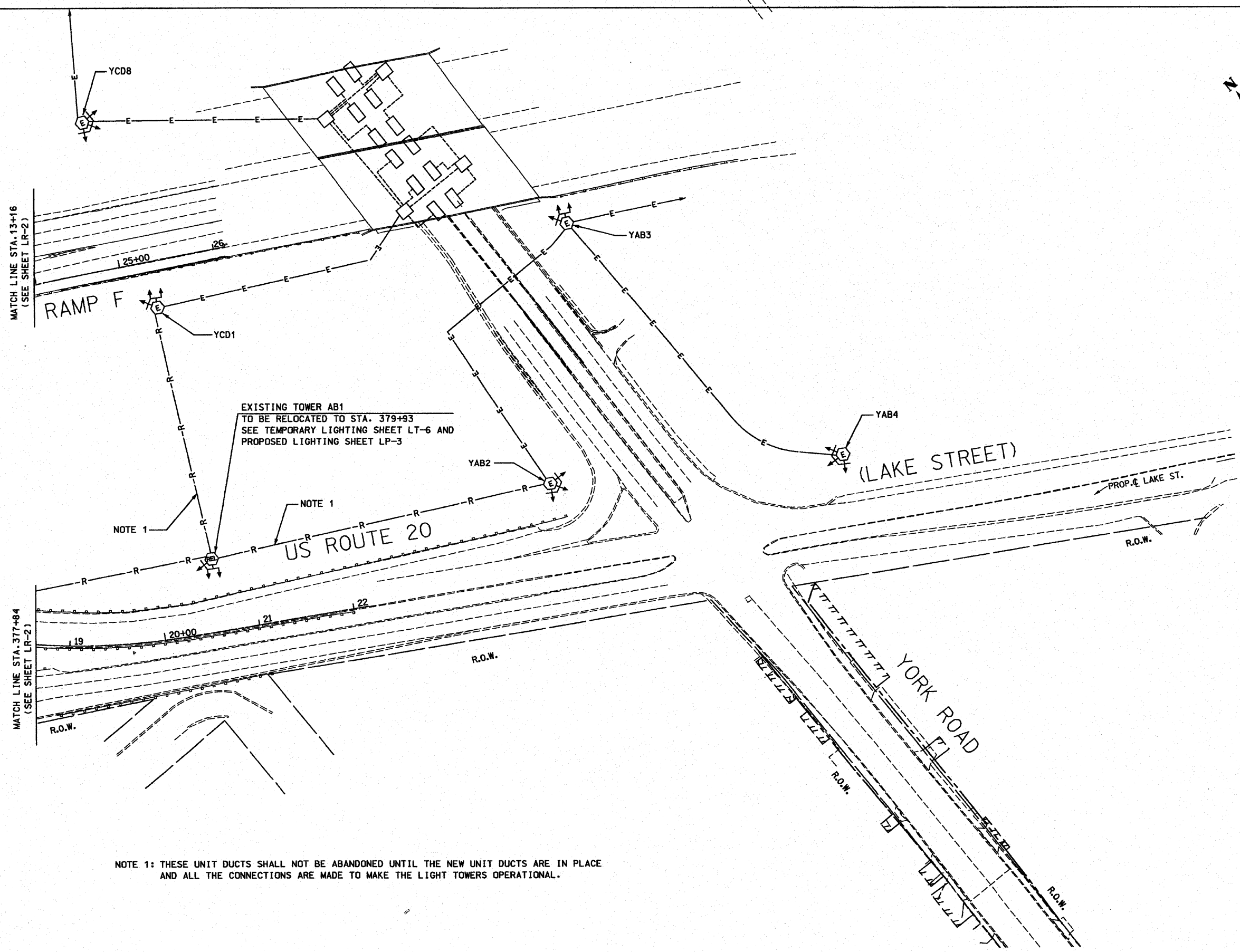
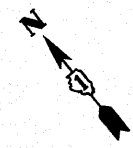
EXISTING LIGHTING
CONTROLLER "Y"
STA. 377+22



Michael G. Kelly 03/20/10
Expires 11/30/2011

LR-2

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) LIGHTING REMOVAL (SHEET 2 OF 3) STA. 362+08 TO STA. 377+84	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN - MAA, SHM	REVISED -			3537	(4Y&22-3R-2)	DuPage	284	147	
	PLOT SCALE = #SCALE#	CHECKED - PKG	REVISED -			CONTRACT NO. D-91-533-00					
	PLOT DATE = 3/19/2010	DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.			



EXISTING TOWER AB1
TO BE RELOCATED TO STA. 379+93
SEE TEMPORARY LIGHTING SHEET LT-6 AND
PROPOSED LIGHTING SHEET LP-3

NOTE 1

US ROUTE 20

(LAKE STREET)

YORK ROAD

NOTE 1: THESE UNIT DUCTS SHALL NOT BE ABANDONED UNTIL THE NEW UNIT DUCTS ARE IN PLACE
AND ALL THE CONNECTIONS ARE MADE TO MAKE THE LIGHT TOWERS OPERATIONAL.



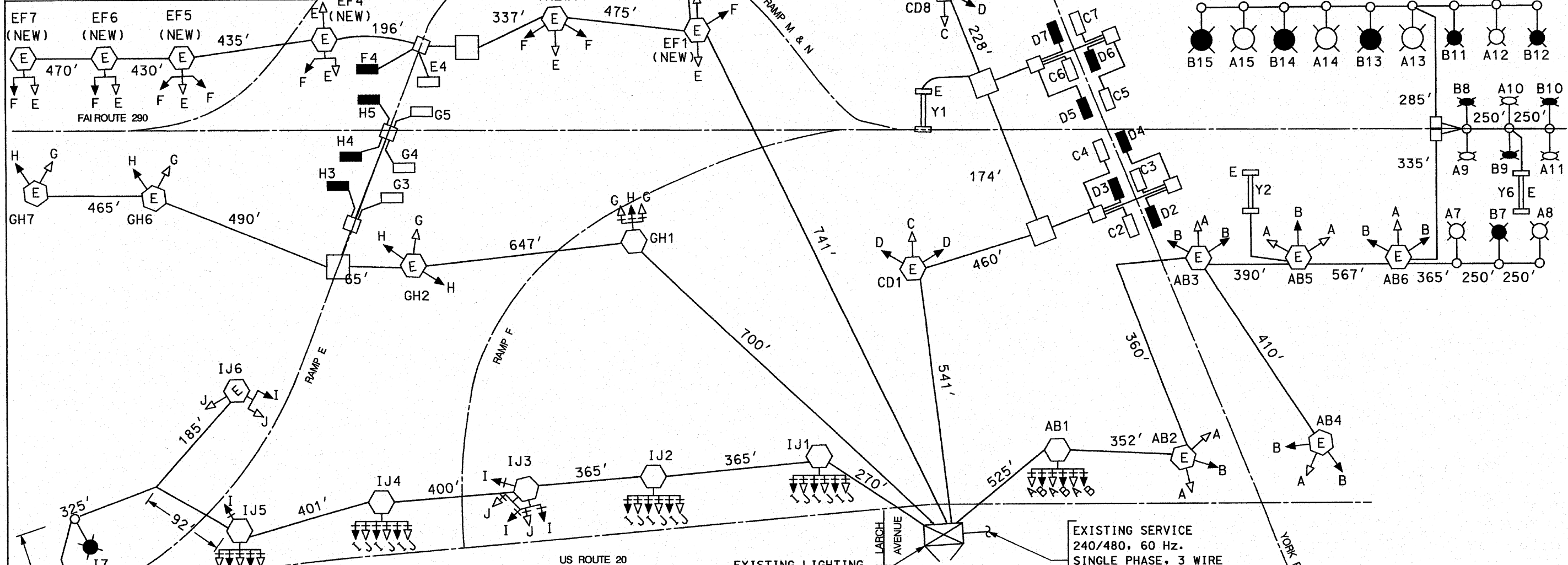
Michael S. Kelly 03/20/10
Expires 11/30/2011

LR-3

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) LIGHTING REMOVAL (SHEET 3 OF 3) STA. 377+84 TO STA. 388+51	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = #SCALE#	DRAWN - MAA, SHM	REVISED -			3537	4Y&22-3R-2	DuPage	284	148	
	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -			CONTRACT NO. D-91-533-00					
		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.			

LOAD TABULATIONS FOR LIGHTING CONTROLLER "Y"

CIRCUIT	VOLTS	AMPS	WATTS
A	240	56.00	13440.0
B	240	60.80	14592.0
C	240	46.60	11184.0
D	240	46.60	11184.0
E	240	40.30	9672.0
F	240	40.30	9672.0
G	240	19.30	4632.0
H	240	22.10	5304.0
I	240	38.80	9312.0
J	240	39.60	9504.0
TOTAL		368.16	98496.0



WIRING DIAGRAM LEGEND

- ➔ 1000 WATT HPS, LUMINAIRE ON RED CABLE
- ➔ 1000 WATT HPS, LUMINAIRE ON BLACK CABLE
- ⊕ 400 WATT HPS, LUMINAIRE ON RED CABLE
- ⊕ 400 WATT HPS, LUMINAIRE ON BLACK CABLE
- ⊙ 400 WATT HPS, LUMINAIRE ON RED CABLE
- ⊙ 400 WATT HPS, LUMINAIRE ON BLACK CABLE
- ⊙ 310 WATT HPS, LUMINAIRE ON RED CABLE
- ⊙ 310 WATT HPS, LUMINAIRE ON BLACK CABLE
- ⊙ 200 WATT HPS, LUMINAIRE ON RED CABLE
- ⊙ 200 WATT HPS, LUMINAIRE ON BLACK CABLE
- 55 WATT LPS, UNDERPASS LUMINAIRE ON RED CABLE
- 55 WATT LPS, UNDERPASS LUMINAIRE ON BLACK CABLE
- ⊞ EXISTING SIGN PANEL
- ⊞ EF1 (NEW) NEW TOWER CIRCUITS
- ⊙ 310 WATT HPS, LUMINAIRE ON BLACK CABLE
- ⊙ 200 WATT HPS, LUMINAIRE ON RED CABLE
- ⊙ 200 WATT HPS, LUMINAIRE ON BLACK CABLE
- 55 WATT LPS, UNDERPASS LUMINAIRE ON RED CABLE
- 55 WATT LPS, UNDERPASS LUMINAIRE ON BLACK CABLE
- ⊞ EXISTING SIGN PANEL
- ⊞ EF1 (NEW) NEW TOWER CIRCUITS

EXISTING SERVICE
240/480, 60 Hz.
SINGLE PHASE, 3 WIRE
3-1/C NO. 300 MCM
SERVICE CABLE



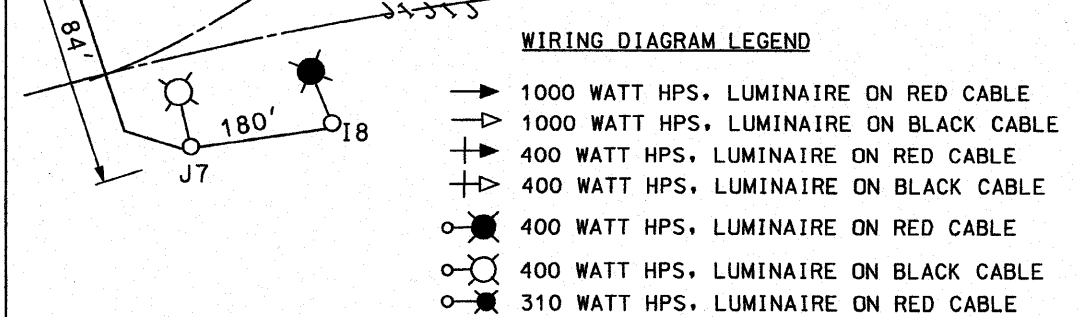
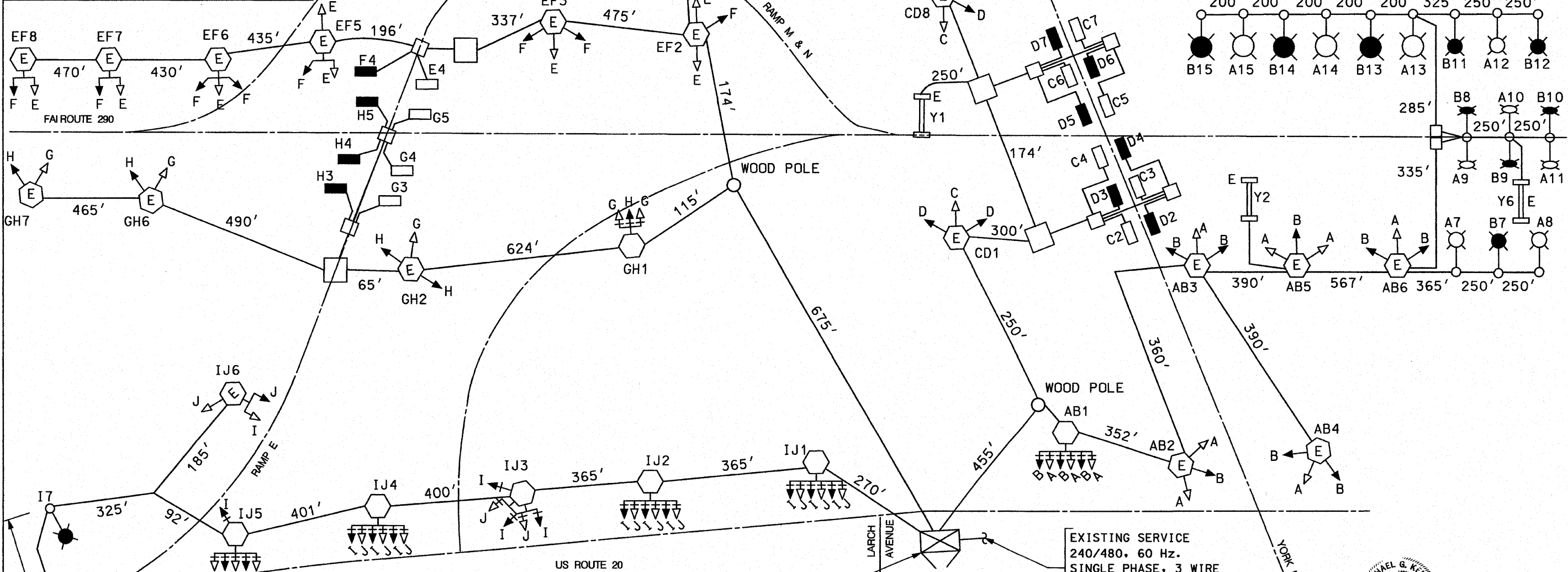
Michael B. Kelly 03/20/10
Expire 11/30/2011

LPW

FILE NAME =	USER NAME = .GAL.	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING WIRING DIAGRAM U.S. ROUTE 20 (LAKE STREET)			F.A.P. RTE. 3537	SECTION (4Y&22-3R-2)	COUNTY DuPage	TOTAL SHEETS 284	SHEET NO. 149
*FILE#	PLOT SCALE = #SCALE#	DRAWN - MAA, SHM	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS STA.	TO STA.	CONTRACT NO. D-91-533-00				
	PLOT DATE = 3/19/2010	CHECKED - PKG	REVISED -		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							
		DATE -	REVISED -									

LOAD TABULATIONS FOR LIGHTING CONTROLLER "Y"

CIRCUIT	VOLTS	AMPS	WATTS
A	240	56.60	13584.0
B	240	63.40	15216.0
C	240	46.10	11064.0
D	240	46.10	11064.0
E	240	40.30	9672.0
F	240	38.70	9288.0
G	240	19.30	4632.0
H	240	22.10	5304.0
I	240	38.80	9312.0
J	240	39.60	9504.0
TOTAL		411.00	98640.0



EXISTING LIGHTING CONTROLLER "Y"

EXISTING SERVICE
240/480, 60 Hz.
SINGLE PHASE, 3 WIRE
3-1/C NO. 300 MCM
SERVICE CABLE



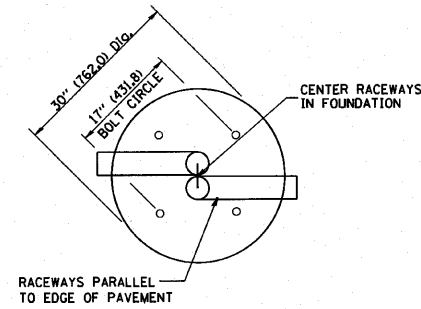
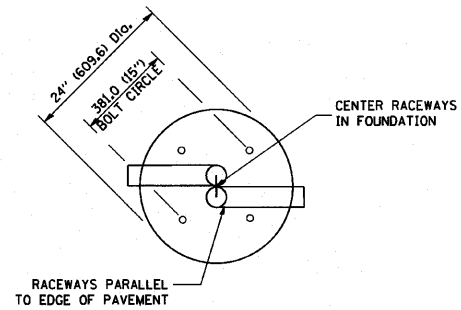
Michael G. Kelly 03/20/10
Expire 11/30/2011

FILE NAME =	USER NAME = .GAL	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING WIRING DIAGRAM FOR CONSTRUCTION STAGES 2&3 U.S. ROUTE 20 (LAKE STREET)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - MAA, SHM	REVISED -			3537	(4Y&22-3R-2)	DuPage	284	151	
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LTW-2

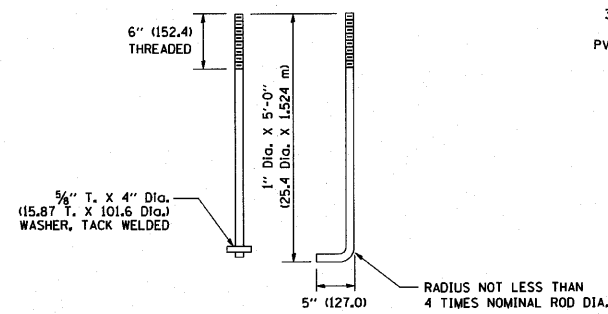
LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SQ.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 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)

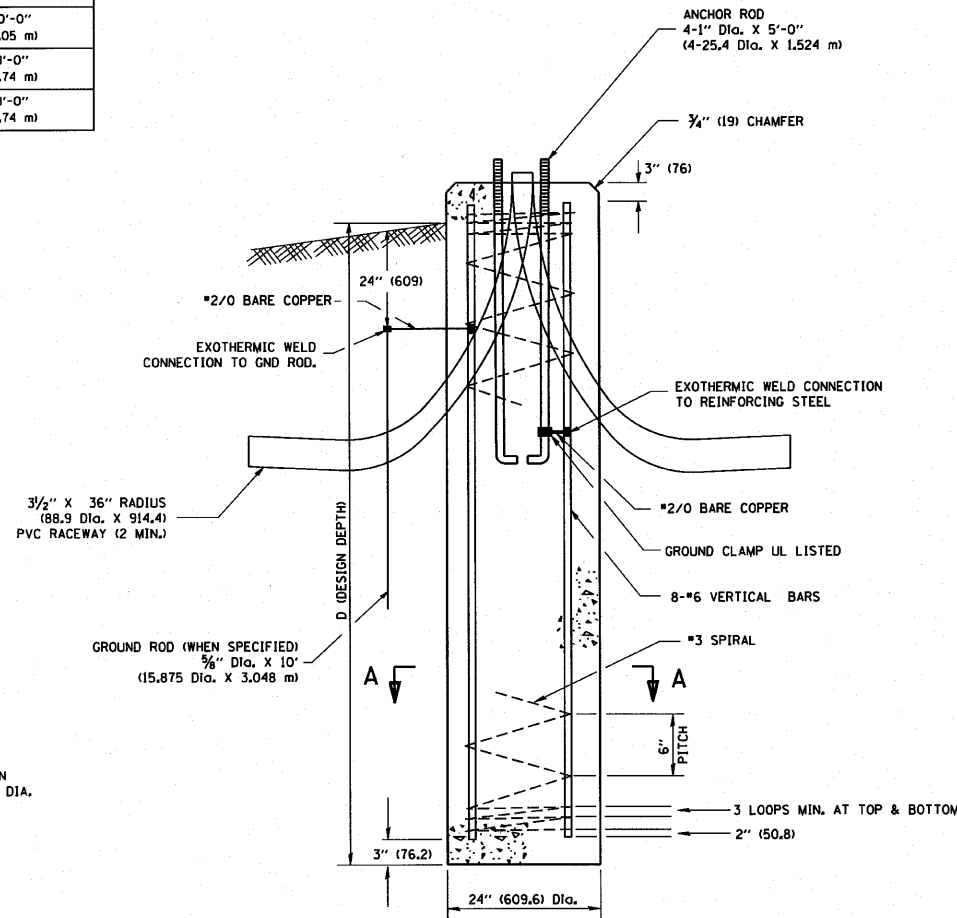


TOP VIEW

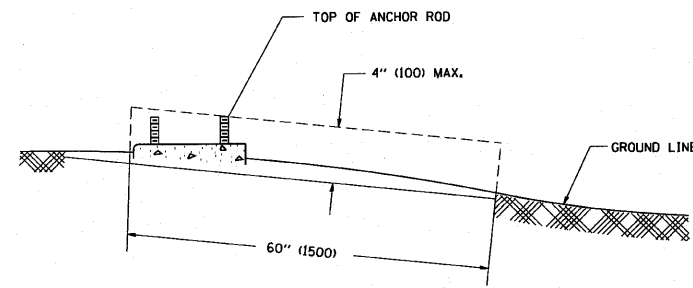
TOP VIEW



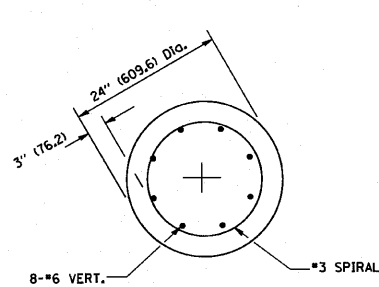
ANCHOR ROD DETAIL



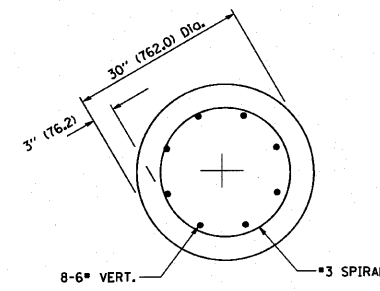
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



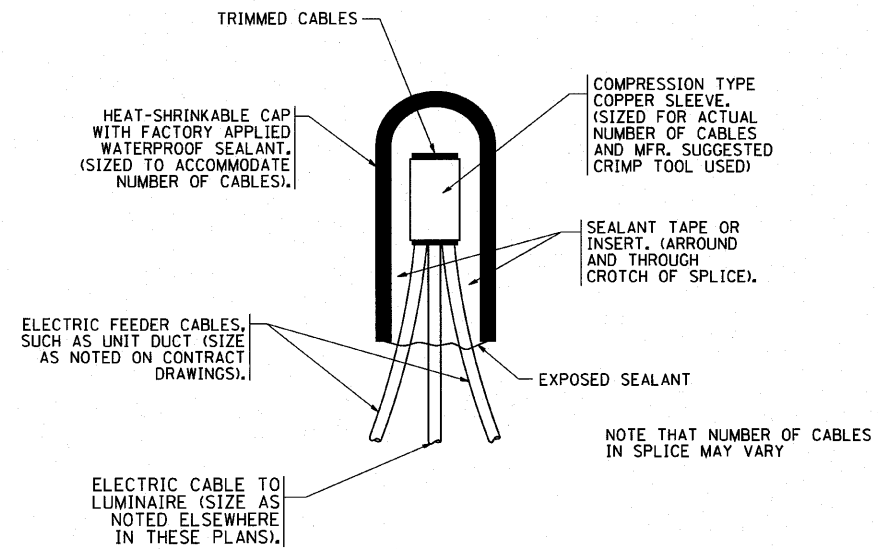
SECTION A-A



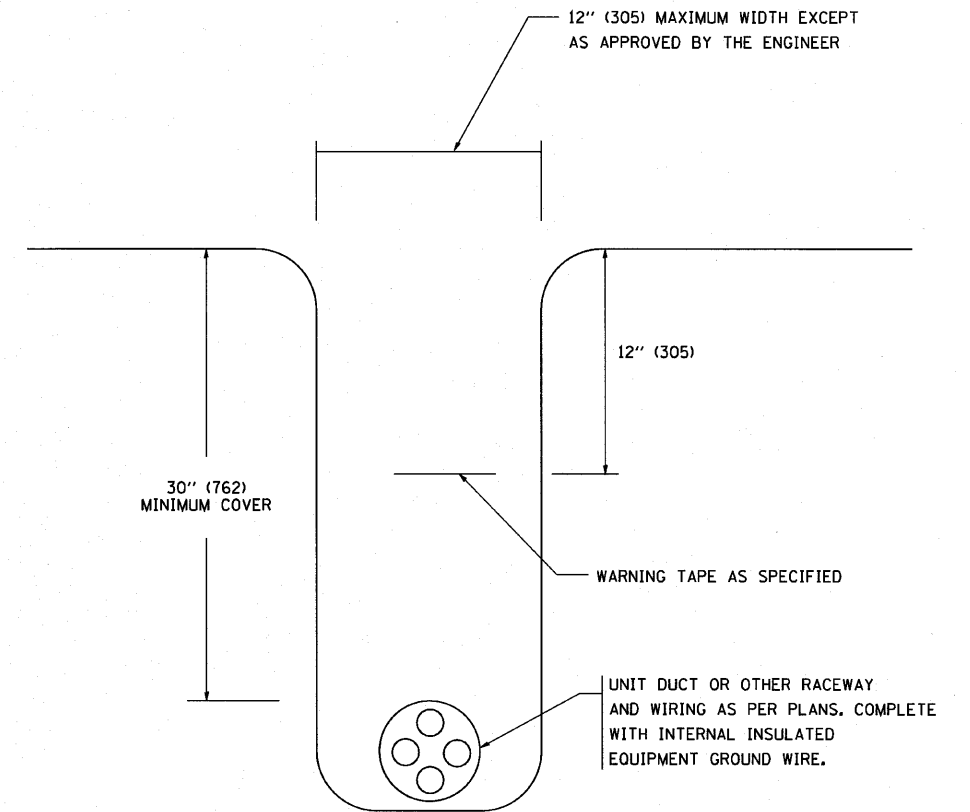
SECTION A-A

NOTES

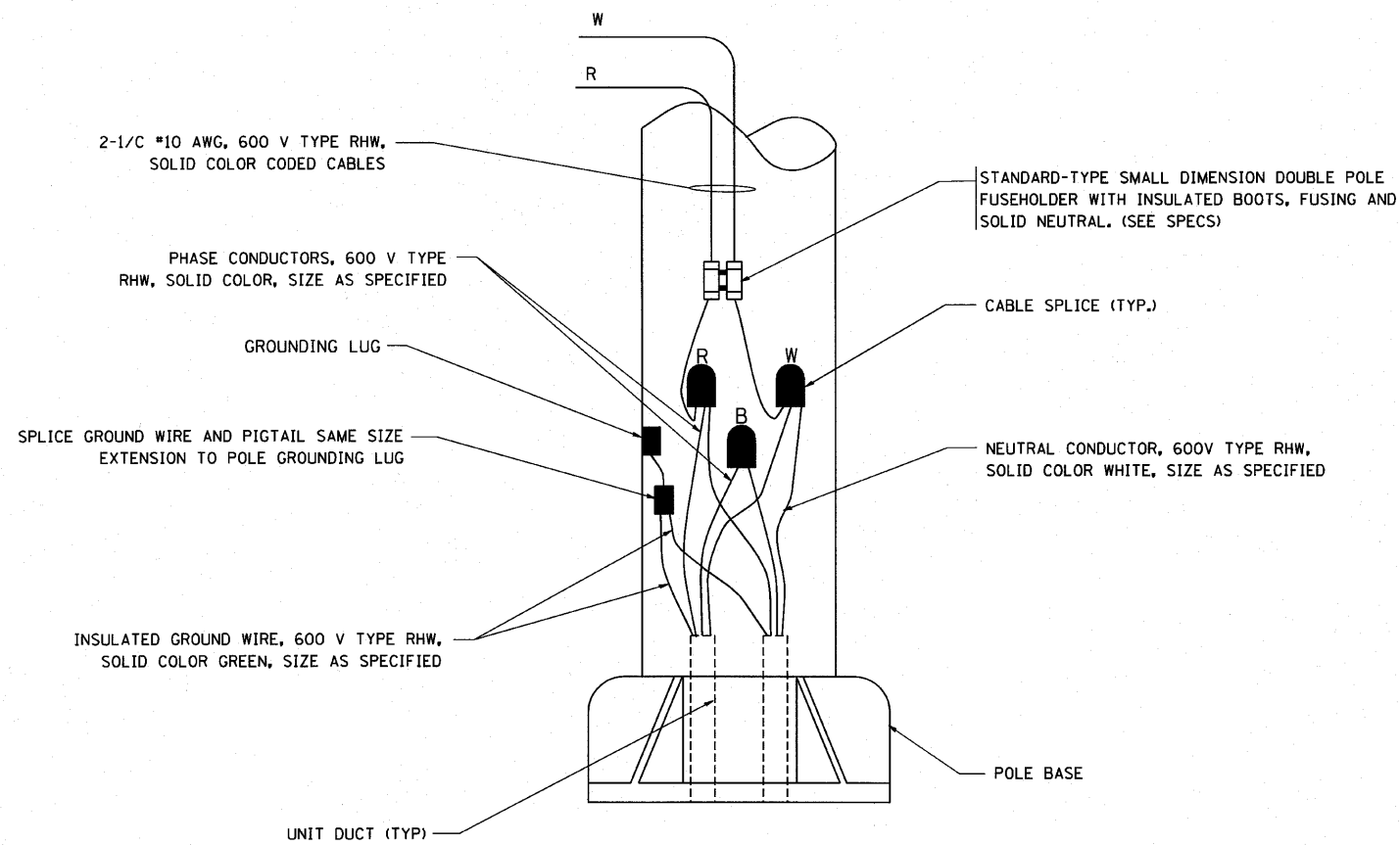
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, 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 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.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 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.



TYPICAL SPLICE DETAIL
N.T.S.

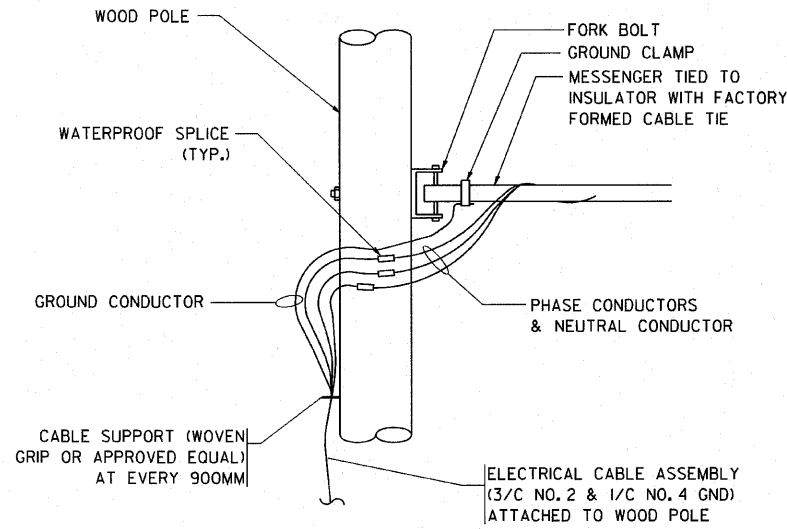


TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

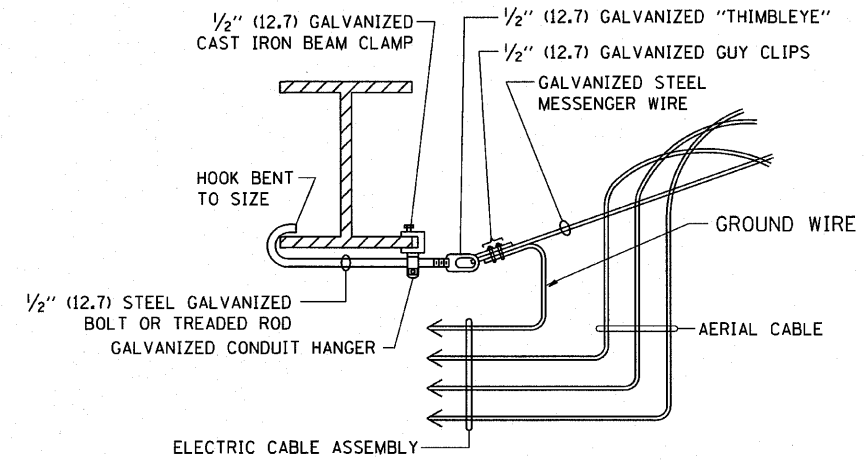
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		DRAWN -	REVISED -		3537	(47&22-3)R-2	DuPage	284	154			
PLOT SCALE =	CHECKED -	REVISED -	REVISED -		BE-702			CONTRACT NO. D-91-533-00				
PLOT DATE =	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					



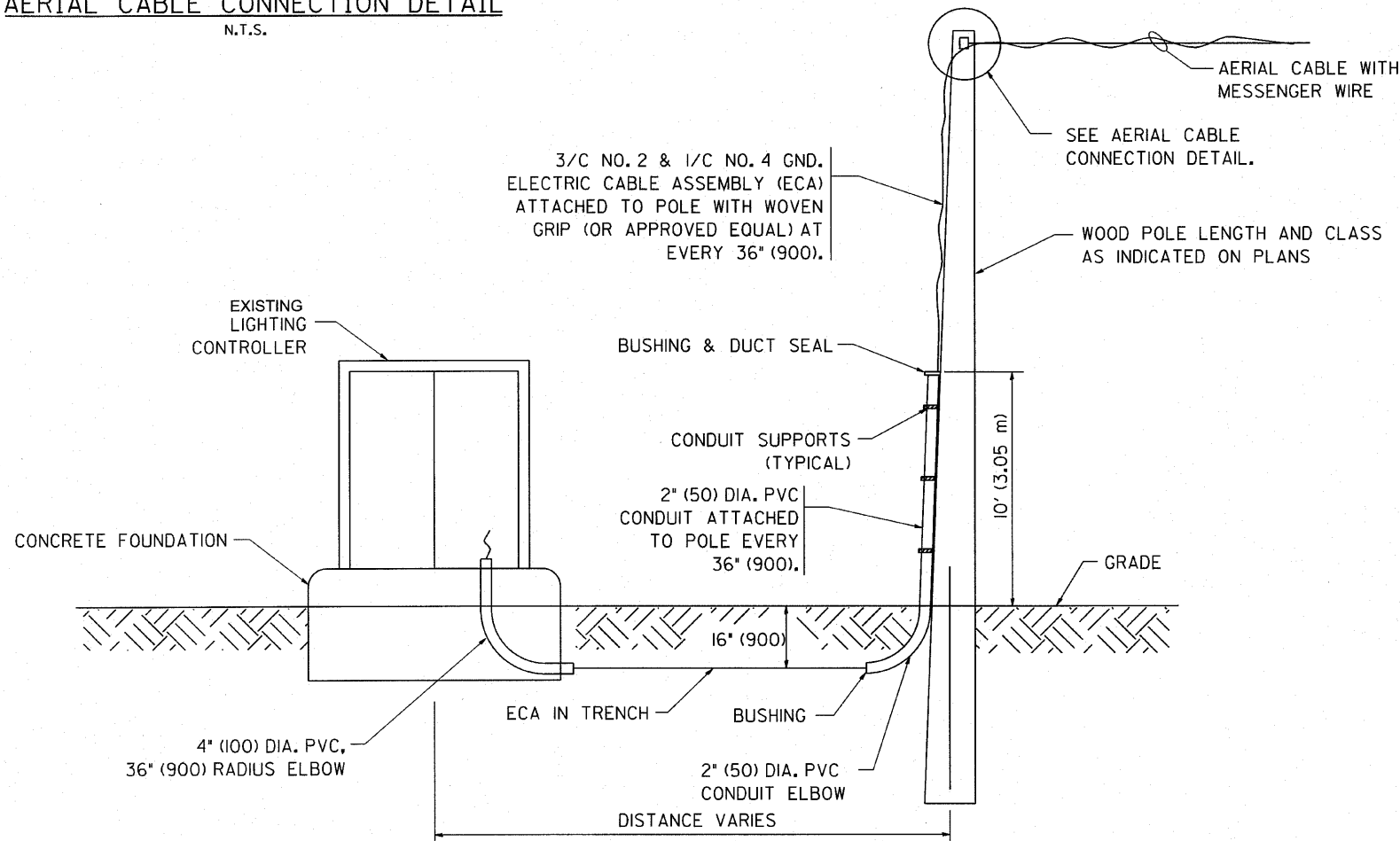
AERIAL CABLE CONNECTION DETAIL
N.T.S.

NOTES:

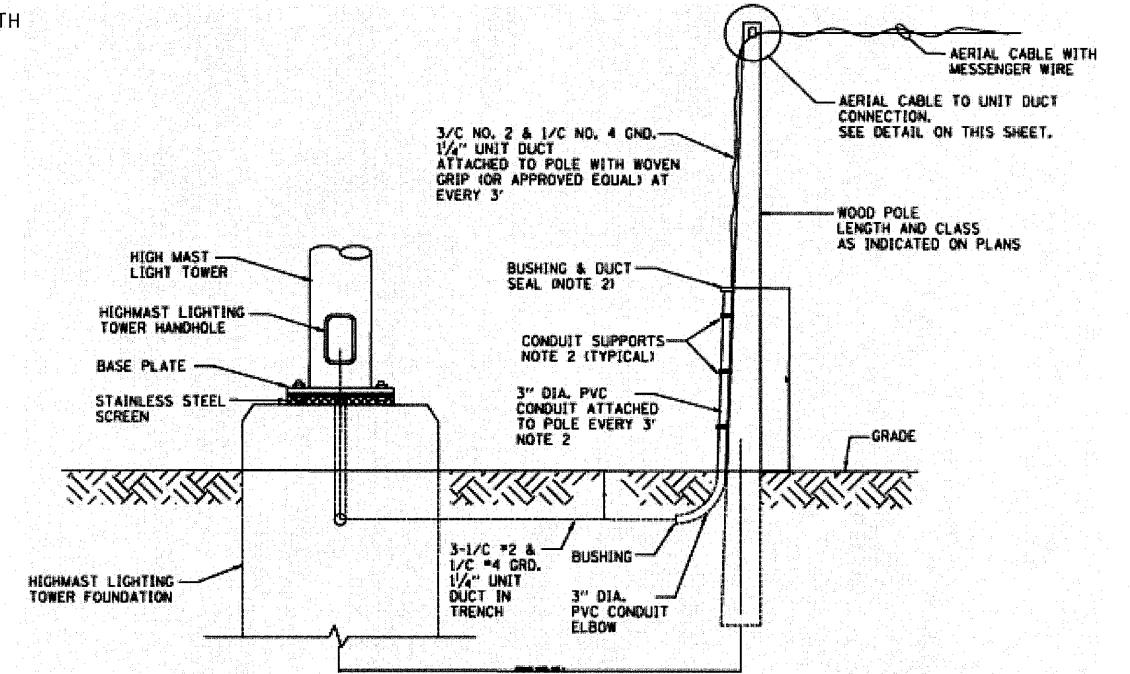
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING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



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE



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



WOOD POLE TO HIGH MAST LIGHT TOWER WIRING CONNECTION DETAIL
N.T.S.

NOTE:

1. REFER TO THE LIGHTING PLANS FOR DIMENSION AT EACH LOCATION.
2. THE COST OF INDICATED ITEMS AND RELATED WORK SHALL BE INCLUDED IN THE COST OF THE WOOD POLE PAY ITEM.

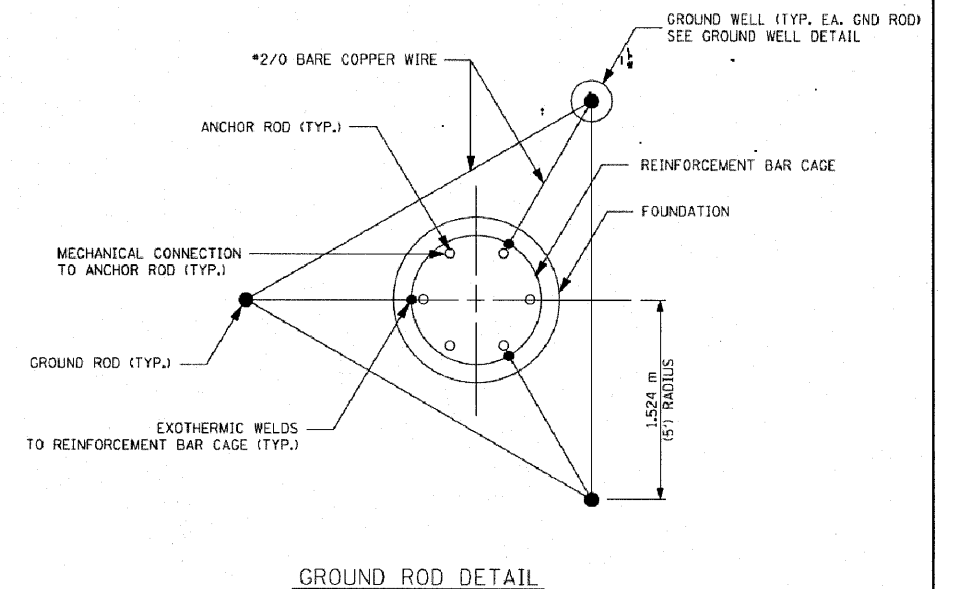
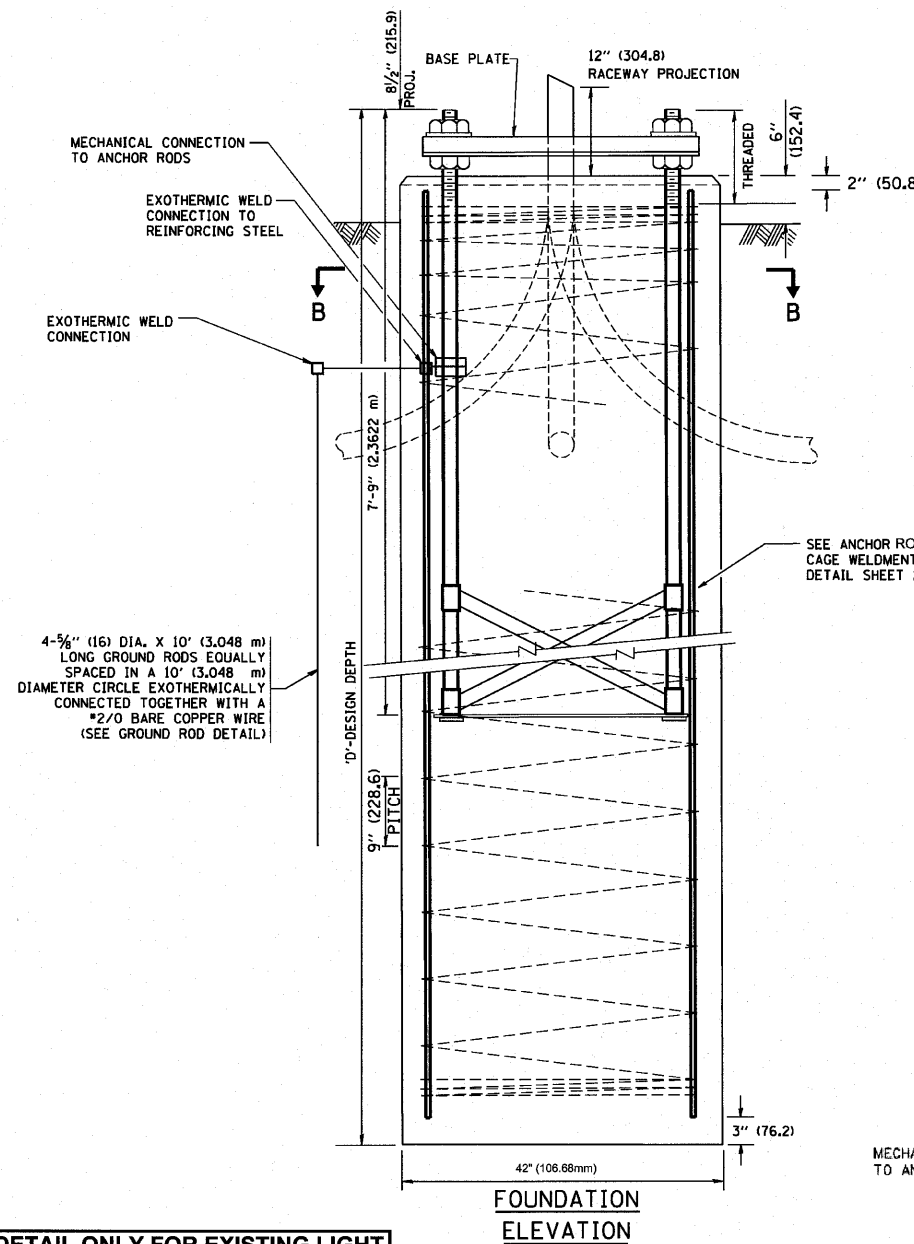
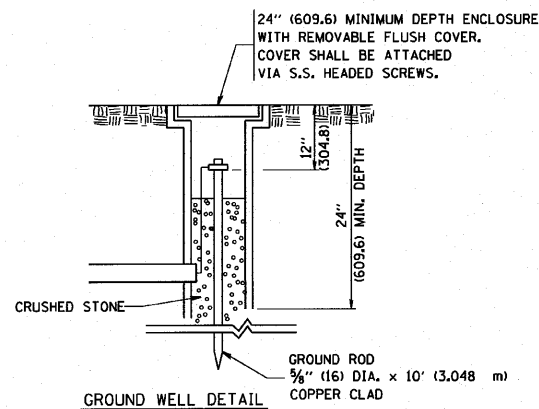
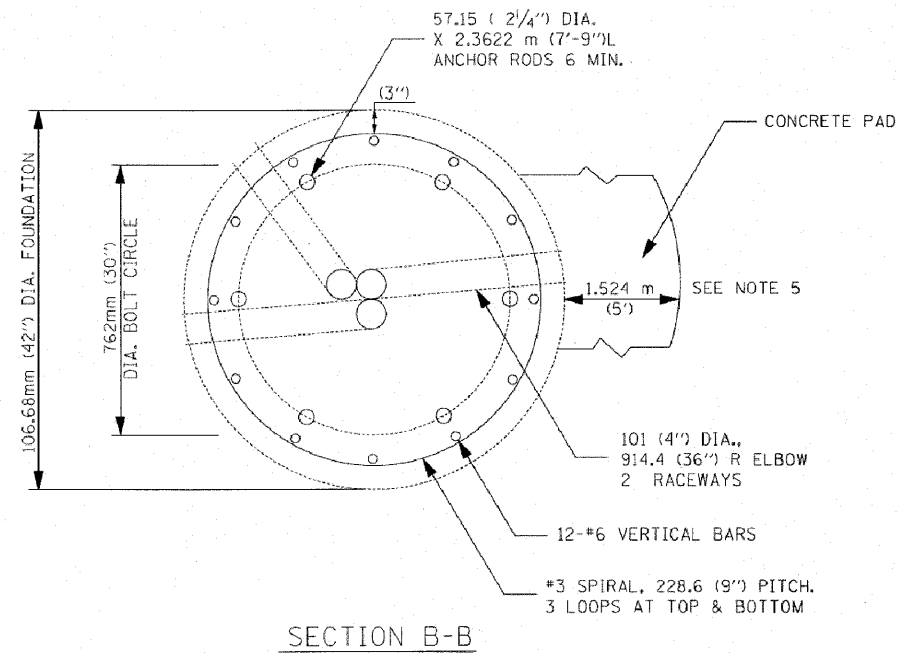
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		3537	(4Y&22-3)R-2	DuPage	284	156			
PLOT SCALE =	CHECKED -	REVISED -			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BE-801		CONTRACT NO. D-91-533-00		
PLOT DATE =	DATE -	REVISED -			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							

LIGHT TOWER FOUNDATION DEPTH "D"

MOUNTING HEIGHT	SOIL CONDITIONS					
	SOFT CLAY Ou = 0.375 TON/SQ. FT	MEDIUM CLAY Ou = 0.75 TON/SQ. FT	STIFF CLAY Ou = 1.50 TON/SQ. FT	LOOSE SAND φ = 34°	MEDIUM SAND φ = 37.5°	DENSE SAND φ = 40°
90 FT (27 m)	29 FT (8.779 m)	20 FT (6.035 m)	15 FT (4.389 m)	15 FT (4.389 m)	13 FT (3.840 m)	12 FT (3.429 m)
100 FT (30 m)	32 FT (9.754 m)	22 FT (6.706 m)	16 FT (4.877 m)	16 FT (4.877 m)	14 FT (4.267 m)	13 FT (3.81 m)
110 FT (33 m)	35 FT (10.719 m)	24 FT (7.377 m)	18 FT (5.365 m)	18 FT (5.365 m)	15 FT (4.694 m)	14 FT (4.191 m)
120 FT (36 m)	38 FT (11.705 m)	26 FT (8.046 m)	19 FT (5.652 m)	19 FT (5.652 m)	17 FT (5.120 m)	16 FT (4.572 m)

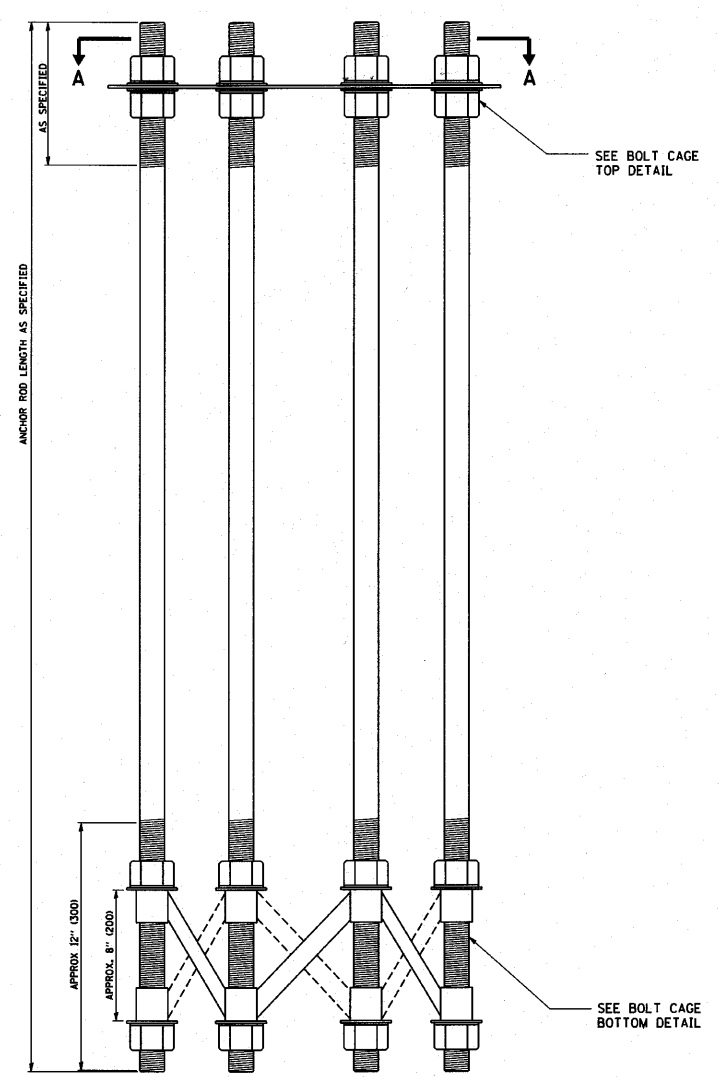
DESIGN NOTES

- (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- (5) 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.
- (6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (7) 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.
- (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- (9) REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (10) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.

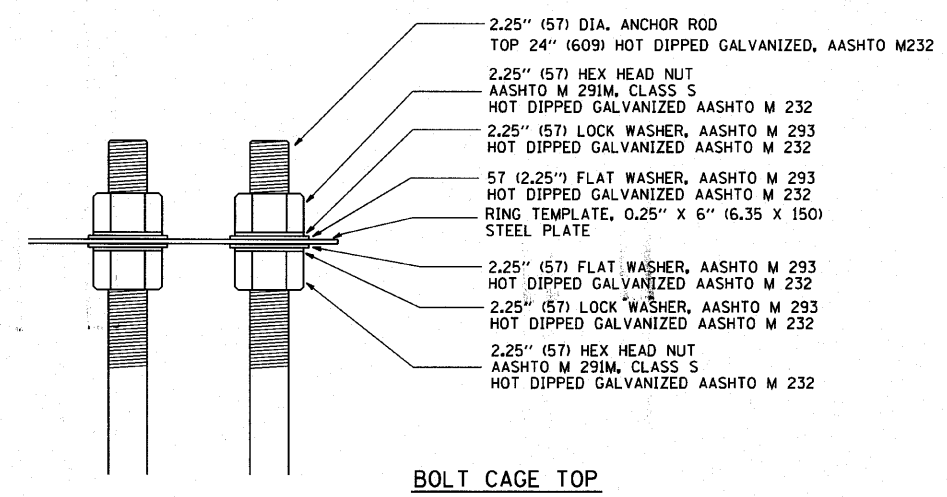


FOUNDATION DETAIL ONLY FOR EXISTING LIGHT TOWER TO BE RELOCATED

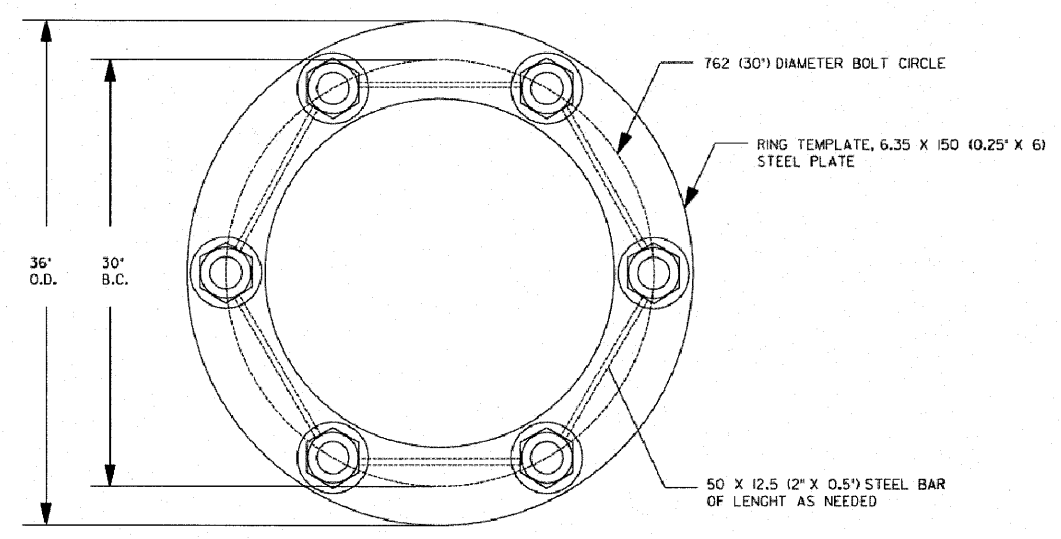
THE CONTRACTOR SHALL VERIFY THE BOLT CIRCLE, ANCHOR ROD SIZE, AND NUMBER OF ANCHOR RODS REQUIRED FOR EACH HIGH MAST TOWER TO BE RELOCATED PRIOR TO CONSTRUCTING THE FOUNDATION AT A PROPOSED NEW LOCATION.



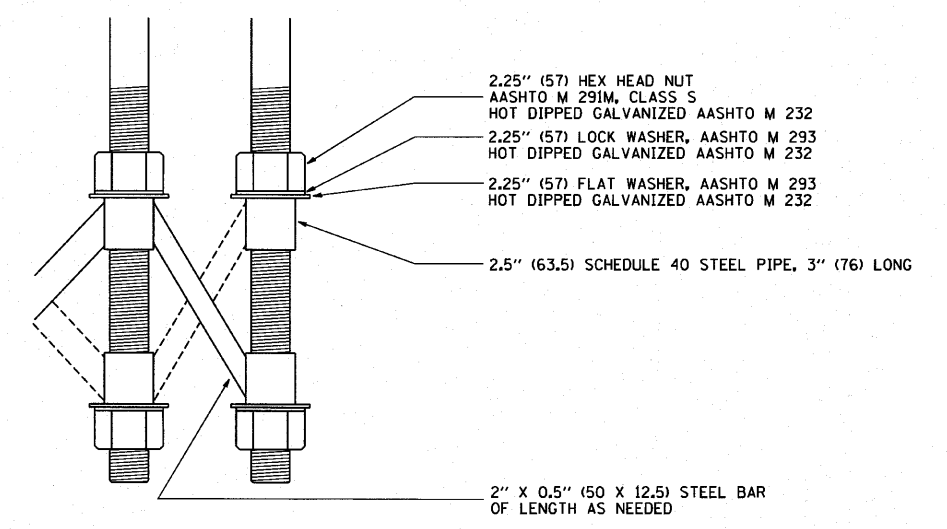
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

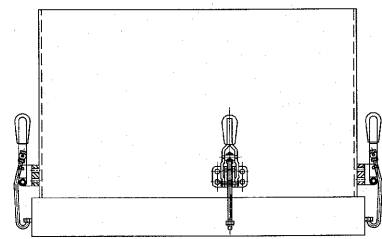
NOTES

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. 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.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH EXISTING TOWERS REQUIREMENTS.

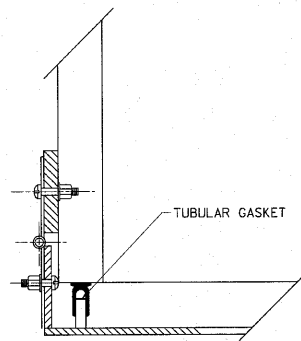
FOUNDATION DETAIL ONLY FOR EXISTING LIGHT TOWER TO BE RELOCATED

THE CONTRACTOR SHALL VERIFY THE BOLT CIRCLE, ANCHOR ROD SIZE, AND NUMBER OF ANCHOR RODS REQUIRED FOR EACH HIGH MAST TOWER TO BE RELOCATED PRIOR TO CONSTRUCTING THE FOUNDATION AT A PROPOSED NEW LOCATION.

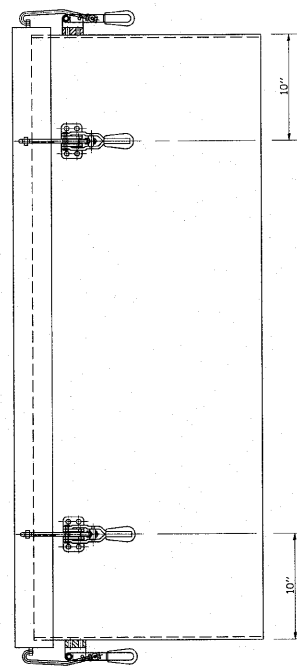
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 90 FT TO 120 FT (27 m TO 36 m) FOUNDATION DETAIL			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	3537	(4Y&22-3)R-2	DuPage	284	158
		CHECKED -	REVISED -						BE-501		CONTRACT NO. D-91-533-00		
		DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



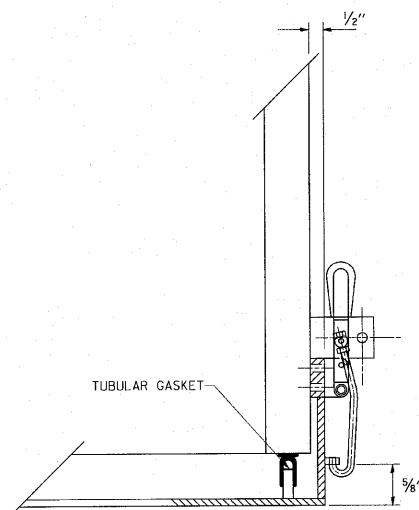
TOP VIEW



HINGE DETAIL

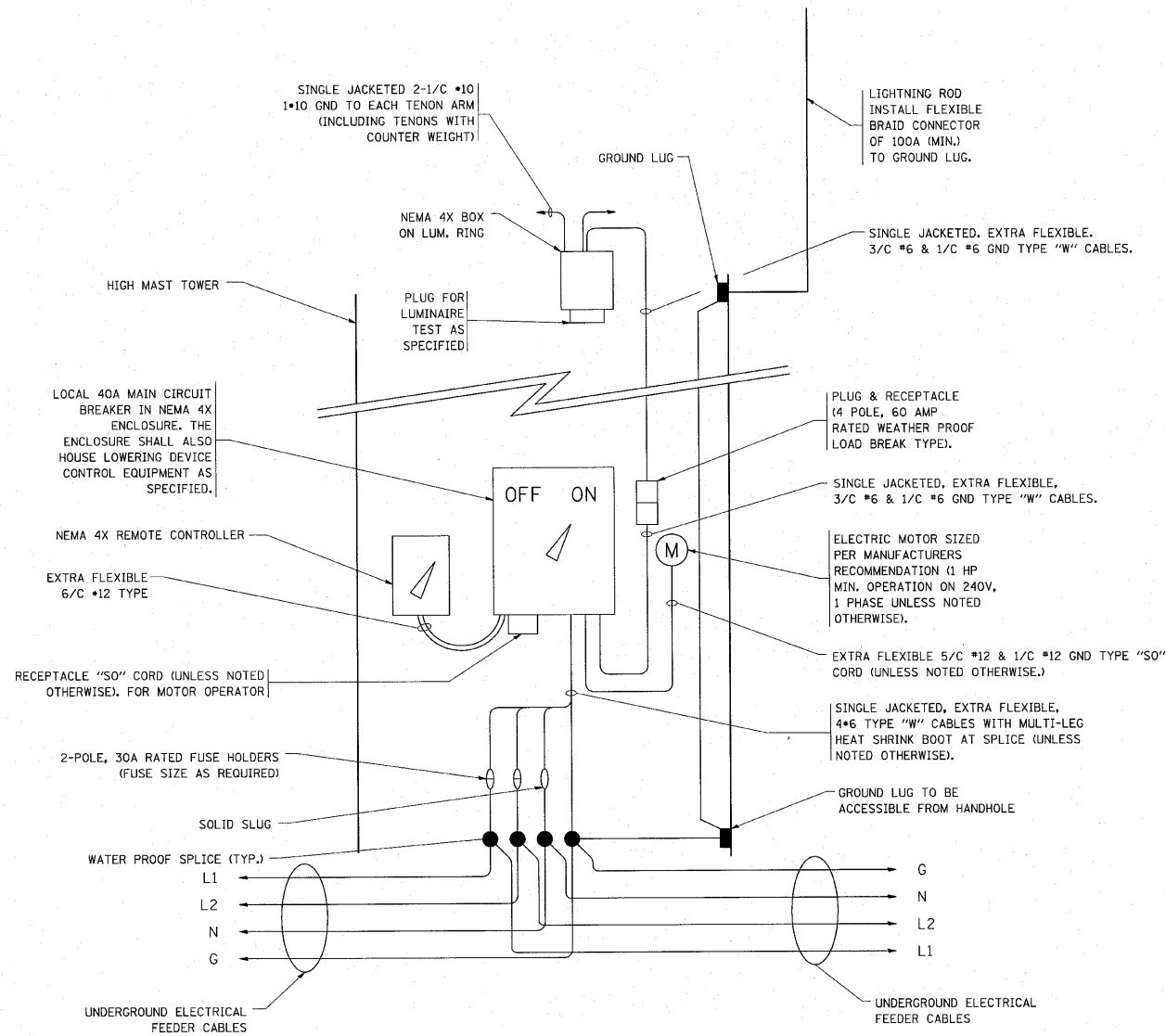


SIDE VIEW

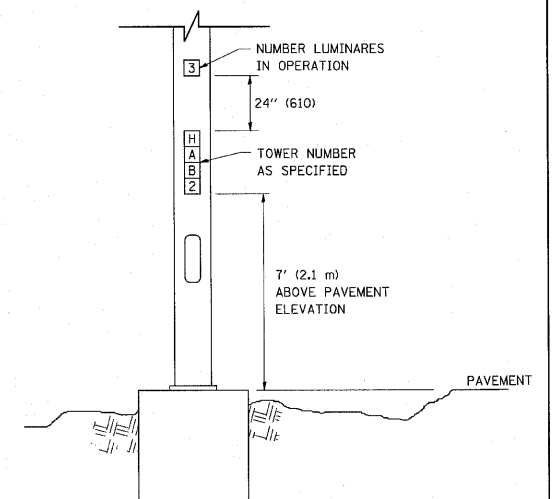


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

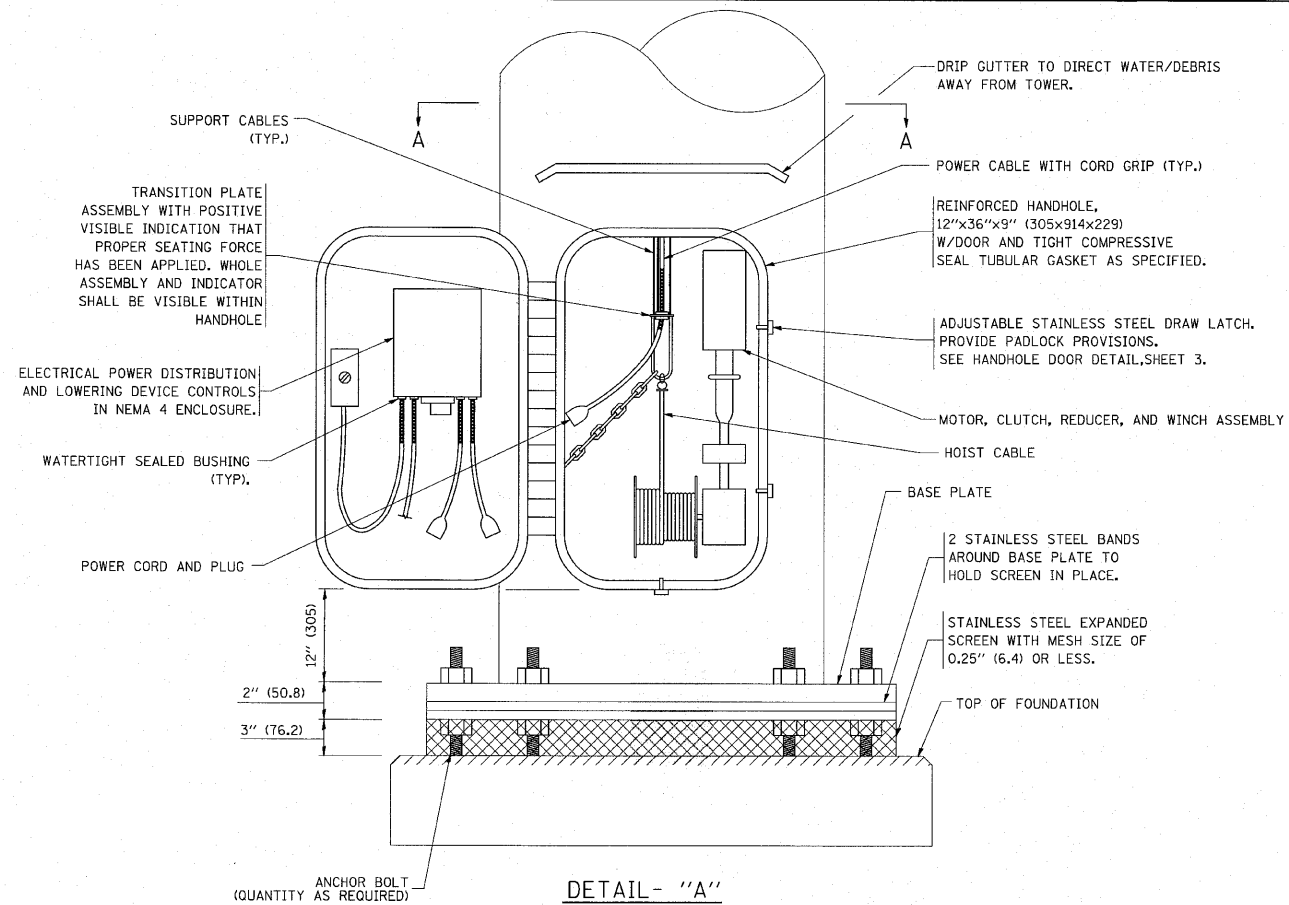
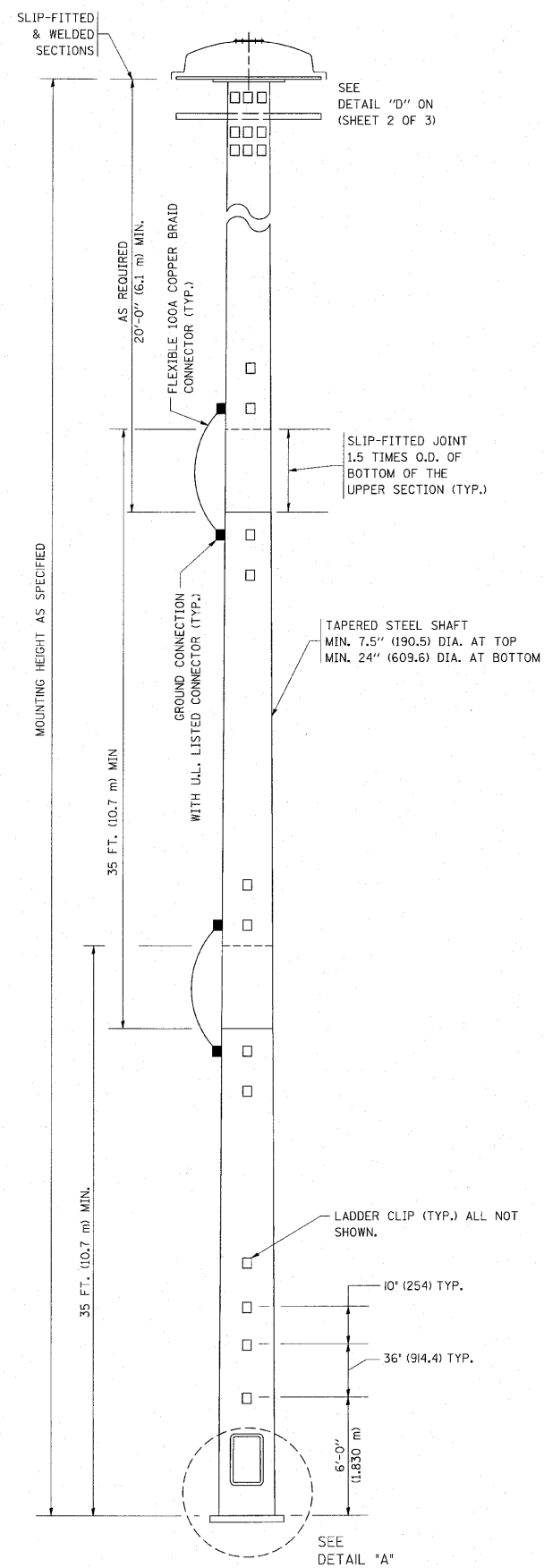
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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
90 FT TO 120 FT (27 m TO 36 m)

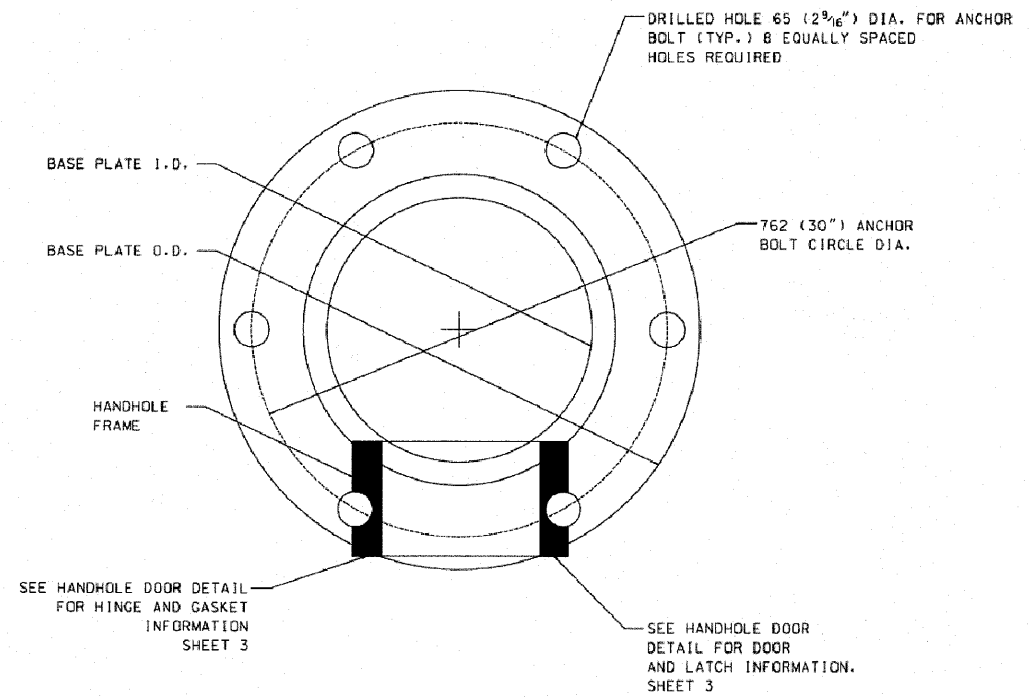
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y&22-3)R-2	DuPage	284	159
BE-500		CONTRACT NO. D-91-533-00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL - "A"

3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.

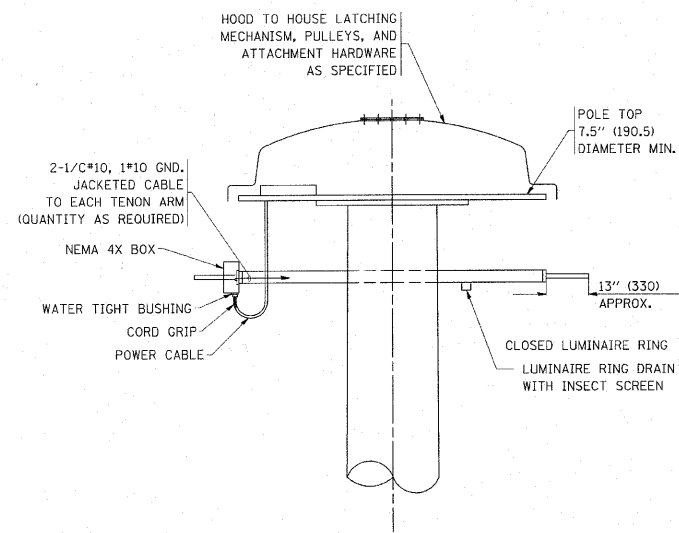


SECTION - A-A

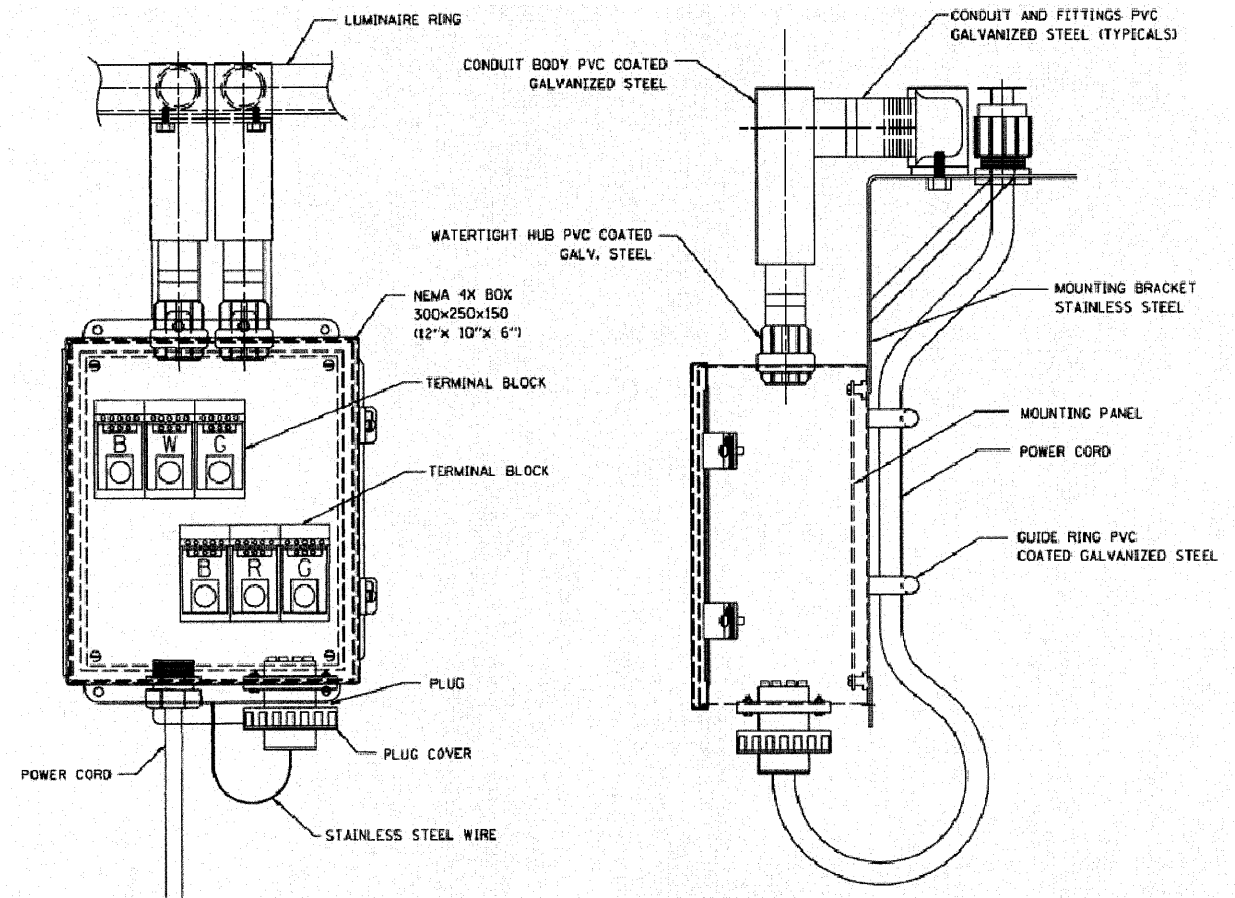
NOTES:

- 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 36 INCH (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 FEDERAL STANDARD COLOR NUMBER 16307 (HANFORD 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.
- PRIOR TO DELIVERY, THE TOWER AND ALL ITS COMPONENTS SHALL BE INSPECTED BY THE MANUFACTURER'S REPRESENTATIVE IN THE PRESENCE OF THE ENGINEER. ANY PARTS FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED.
- 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.
- THE NUMBER OF COUNTER WEIGHTS TO BE SUPPLIED AS A PART OF THE LIGHT TOWER PAY ITEM IS.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 90 FT TO 120 FT (27 m TO 36 m)		F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE =	CHECKED -	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	3537	(4Y&22-3)R-2	DuPage	284	160
PLOT DATE =	DATE -	CHECKED -	REVISED -				TO STA.	BE-500		CONTRACT NO. D-91-533-00		
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



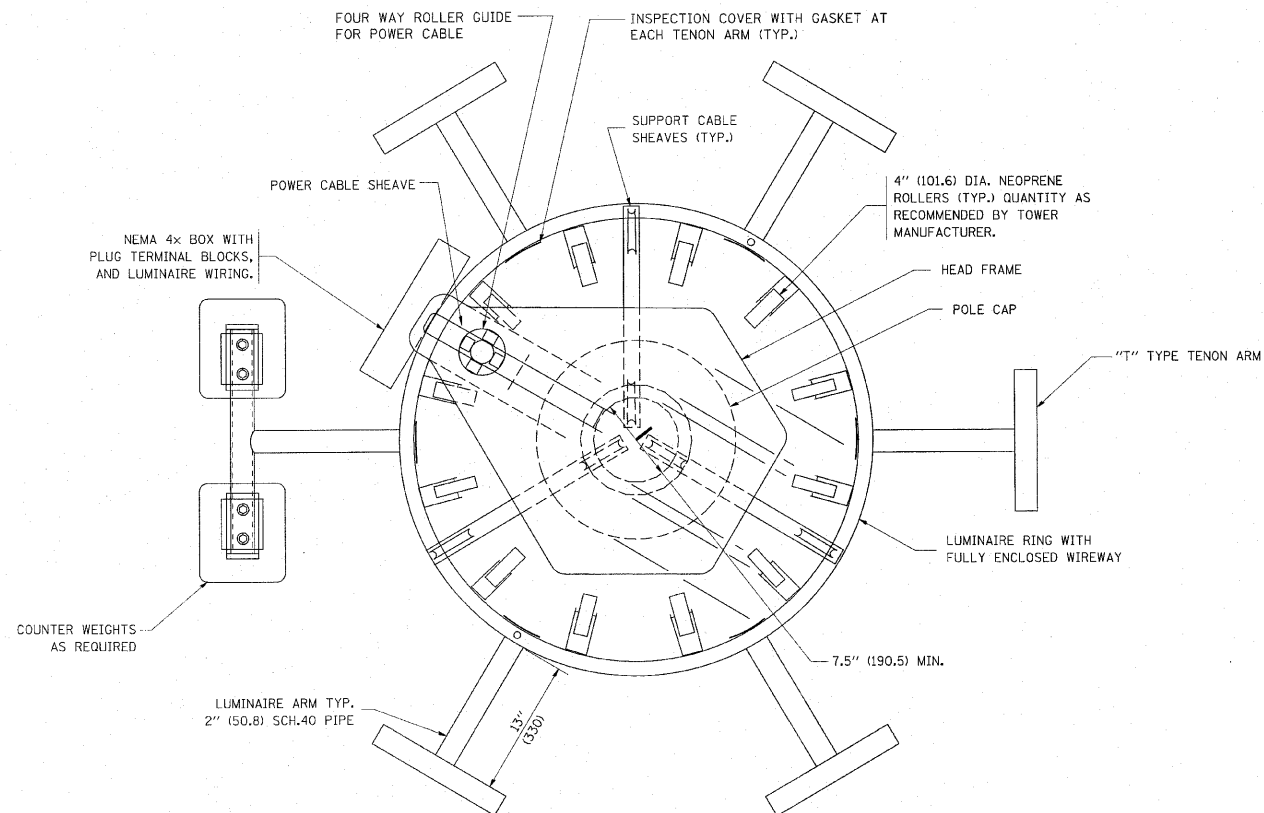
DETAIL-'D'



FRONT VIEW

SIDE VIEW

LUMINAIRE RING TERMINAL BOX



SECTION A-A

NOTES:

1. LUMINAIRE WIRES SHALL EXTEND 609 MM (24 INCHES) LONGER THAN THEIR RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A PROTECTIVE CAP FOR SHIPMENT TO THE JOBSITE. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS. 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.
2. SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
3. 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.
4. ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
5. THE RING SHALL BE COMPLETE WITH A COUNTERWEIGHT FOR EACH UNUSED LUMINAIRE POSITION PLUS ONE ADDITIONAL COUNTERWEIGHT. COUNTERWEIGHTS SHALL BE BASED UPON THE LUMINARIES TO BE INSTALLED ON EACH RESPECTIVE TOWER.

FILE NAME =	USER NAME =
PLOT SCALE =	PLOT DATE =

DESIGNED -	REVISD -
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CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

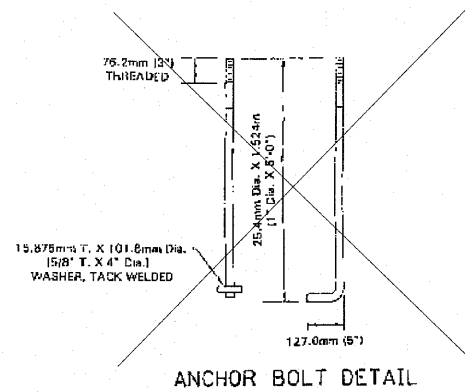
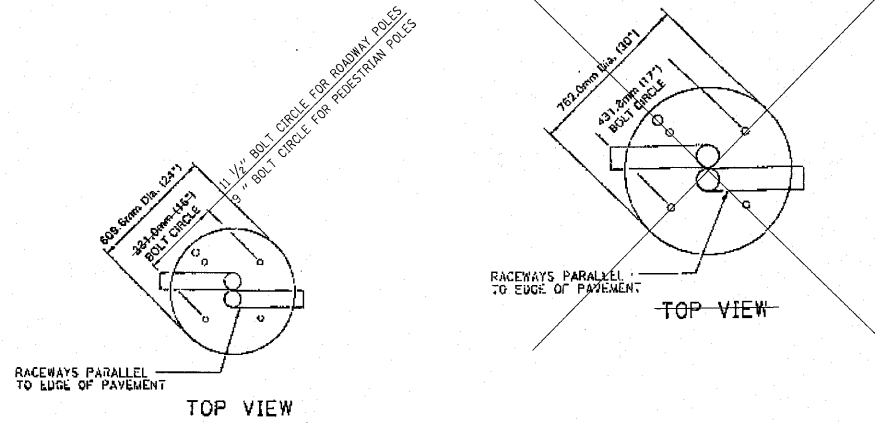
**HIGH MAST LIGHT TOWER
90 FT TO 120 FT (27 m TO 36 m)**

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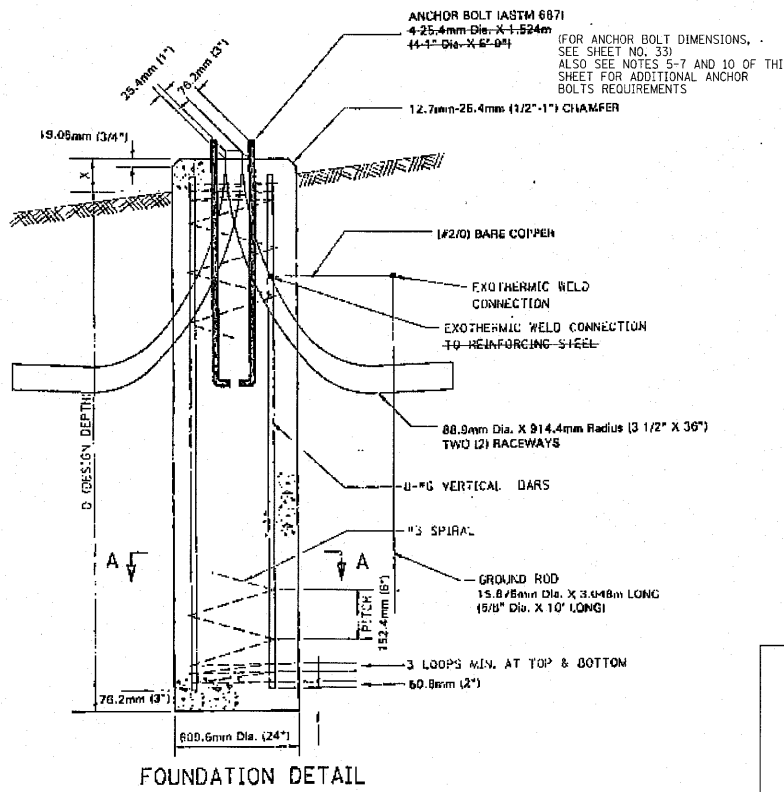
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y&22-3)R-2	DuPage	284	161
BE-500		CONTRACT NO. D-91-533-00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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	3.96m (13'-0")	4.57m (15'-0")	8-#6 X 3.81m (12'-6")	#3 X 37.19m (122')	8-#6 X 4.34m (14'-3")	#3 X 42.98m (141')		
MEDIUM CLAY	2.90m (9'-6")	3.227m (10'-9")	8-#6 X 2.74m (9'-0")	#3 X 27.43m (90')	8-#6 X 3.05m (10'-0")	#3 X 30.48m (100')		
STIFF CLAY	2.13m (7'-0")	2.44m (8'-0")	8-#6 X 1.88m (6'-2")	#3 X 20.12m (66')	8-#6 X 2.29m (7'-6")	#3 X 23.17m (76')		
LOOSE SAND	2.74m (9'-0")	3.05m (10'-0")	8-#6 X 2.59m (8'-6")	#3 X 25.91m (85')	8-#6 X 2.90m (9'-6")	#3 X 28.05m (92')		
MEDIUM SAND	2.52m (8'-3")	2.74m (9'-0")	8-#6 X 2.44m (8'-0")	#3 X 23.77m (78')	8-#6 X 2.53m (8'-6")	#3 X 25.91m (85')		
DENSE SAND	2.36m (7'-9")	2.74m (9'-0")	8-#6 X 2.29m (7'-6")	#3 X 22.75m (73')	8-#6 X 2.59m (8'-6")	#3 X 25.91m (85')		
ROCK OR SOLIDIFIED S.S.G.	1.52m (5'-0")	1.52m (5'-0")	NONE	NONE	NONE	NONE		



ANCHOR BOLT DETAIL

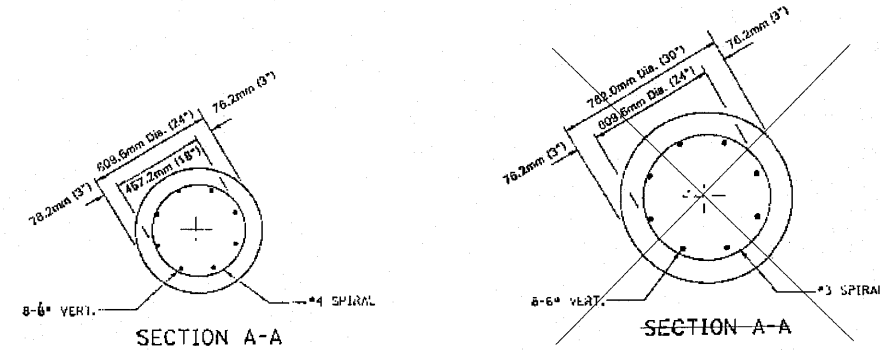


FOUNDATION DETAIL

NOTES

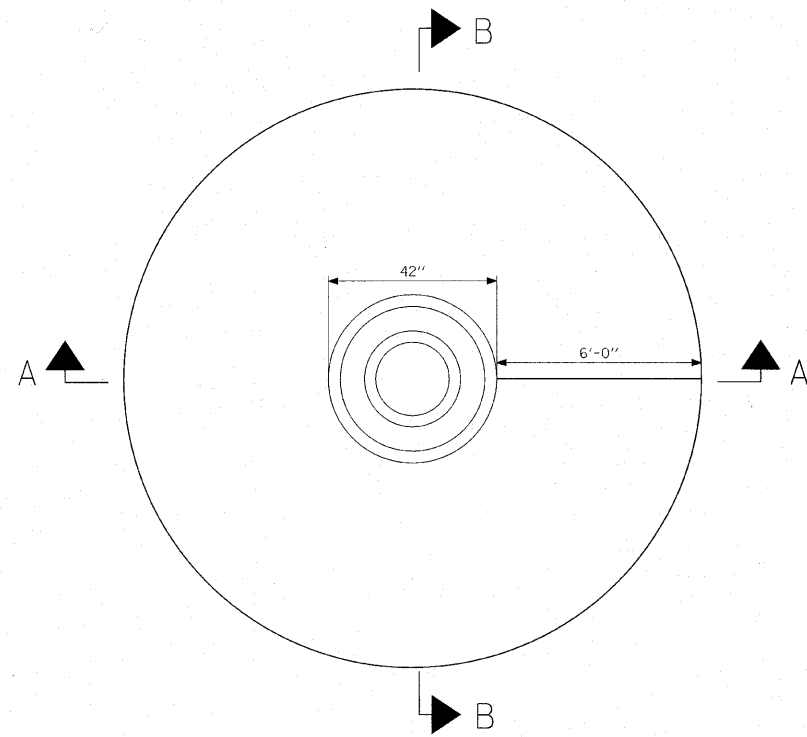
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- THE DESIGN DEPTH "D" OF FOUNDATION SHALL BE INCREASED BY VALUE OF X ACCORDING TO FIELD CONDITIONS.
13 mm
- EXCAVATION OF THE PILE FOUNDATION SHALL BE MADE WITH AN AUGER, 609.6mm OR 762.0mm (24" OR 30") IN DIAMETER.
- THE CONTRACTOR SHALL USE #3 SPIRAL AT 152.4mm (6") PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 304.8mm (12") O.C.
- THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
- CONCRETE SHALL BE CLASS SL. THE CONCRETE FOUNDATION MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- THE CALL TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
- ANCHOR BOLTS SHALL PROJECT 60.8 mm (2-3/4") ABOVE THE TOP OF THE FOUNDATION.
- RACEWAYS SHALL PROJECT 25.4mm (1") ABOVE THE TOP OF THE FOUNDATION.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- REINFORCEMENT BARS SHALL COMPLY WITH ARTICLE 1008.10 OF THE STANDARD SPECIFICATIONS.

FOR INFORMATION ONLY
THIS DETAIL IS APPLICABLE
FOR SOUTH YORK ROAD LIGHTING ONLY
(CITY OF ELMHURST)



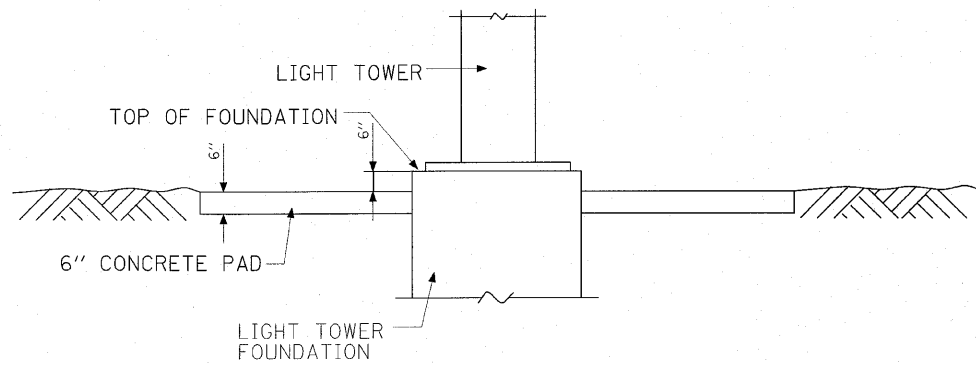
SECTION A-A

SECTION A-A

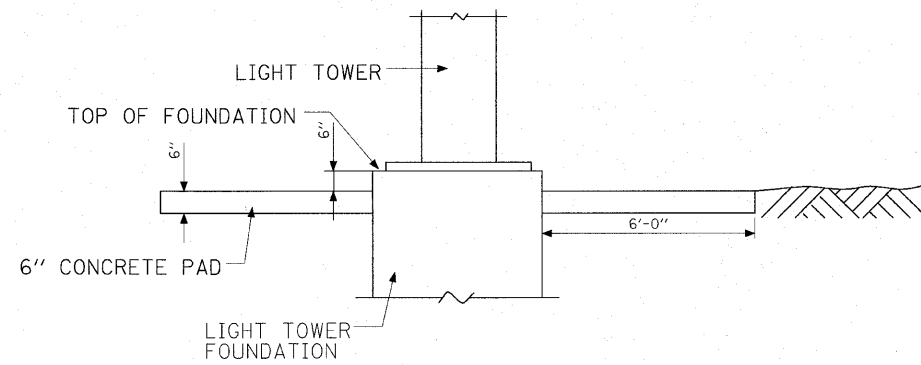


PLAN

ROUND CONCRETE SERVICE PAD

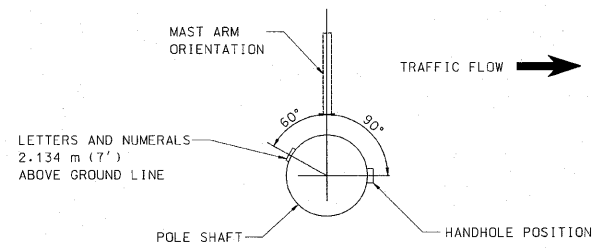


SECTION A-A

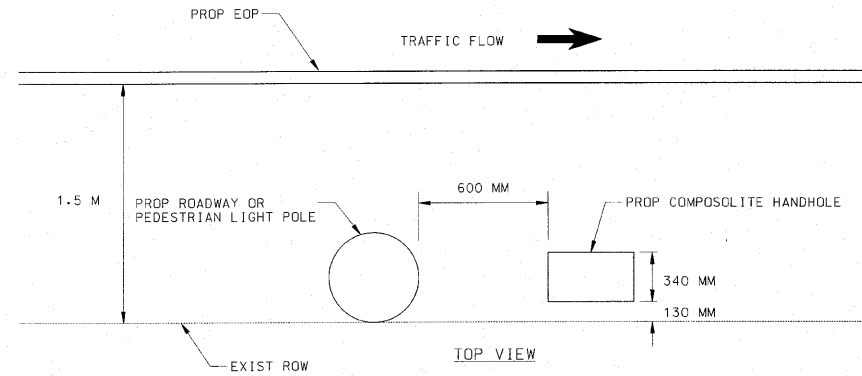


SECTION B-B

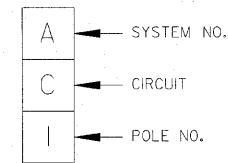
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		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
					SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	



POSITION OF HANDHOLE AND POLE NUMBER FOR ALL POLES



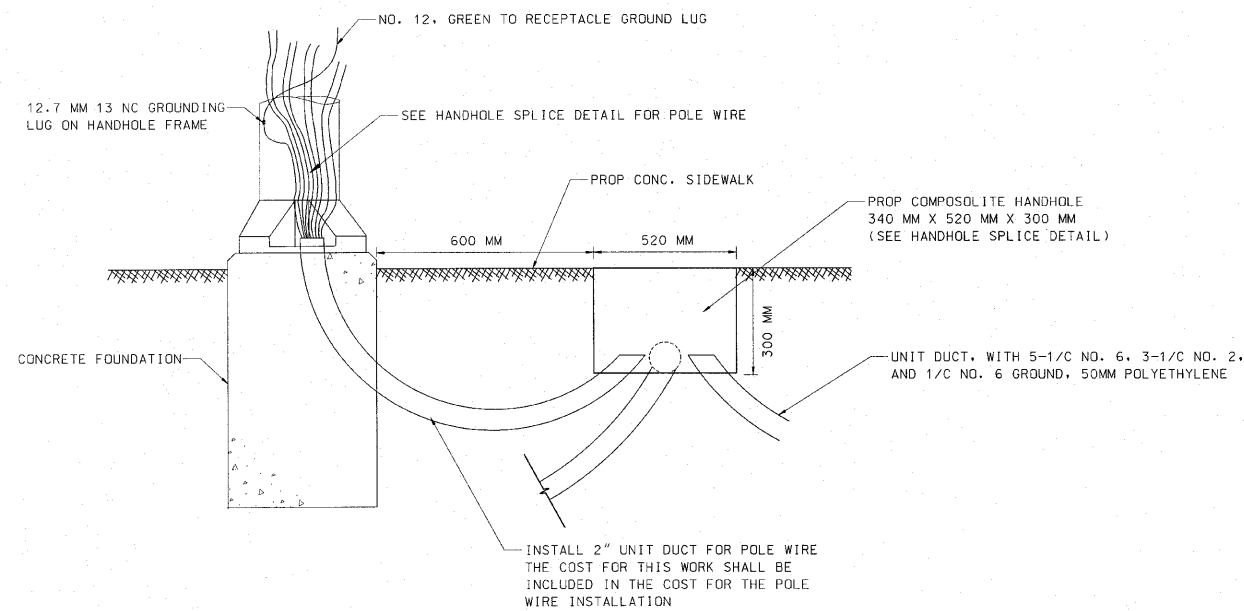
TOP VIEW



NOTE:

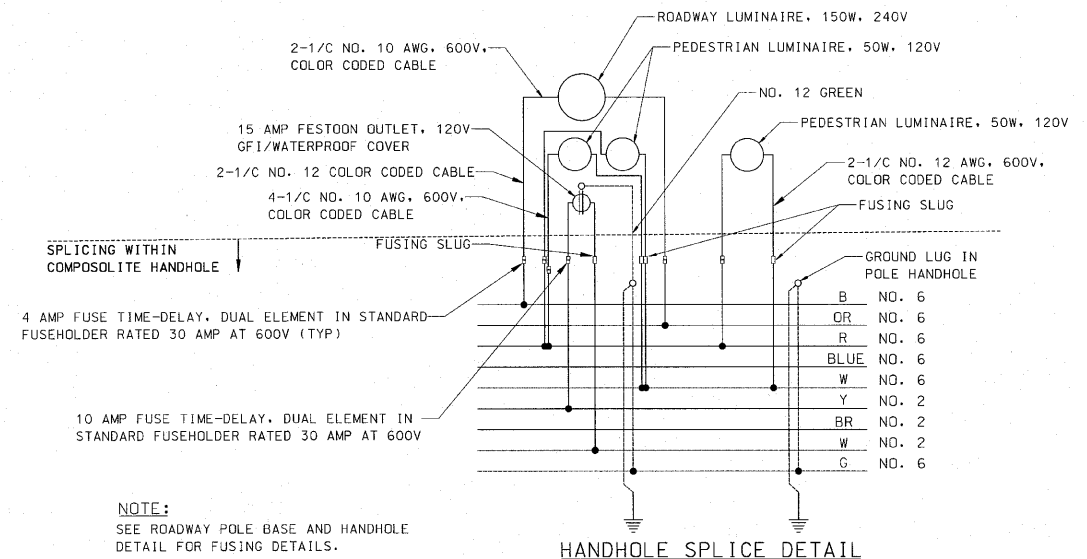
LETTERS AND NUMERALS SHALL BE PLACED 2.134 m ABOVE GROUND LINE (1.7 m WHEN SIGNS ARE ATTACHED TO LIGHT POLE)

POLE NUMBER DETAIL



SIDE VIEW

ROADWAY POLE BASE AND HANDHOLE DETAIL



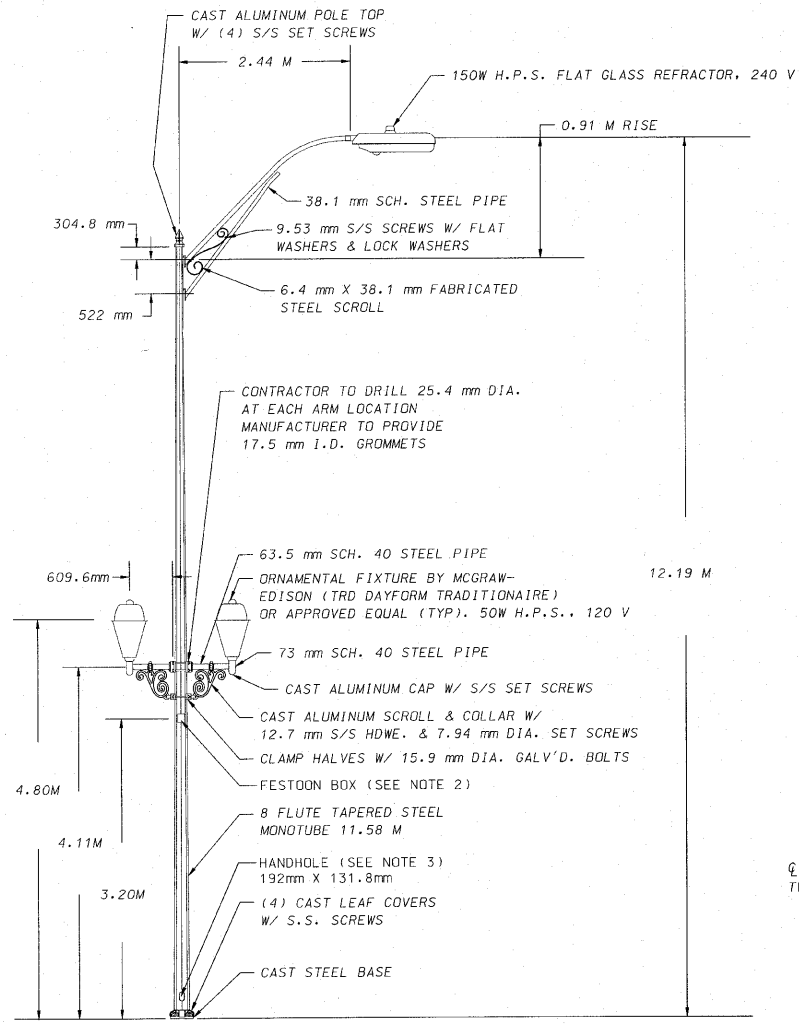
HANDHOLE SPLICE DETAIL

FOR INFORMATION ONLY

THIS DETAIL IS APPLICABLE FOR SOUTH YORK ROAD ONLY

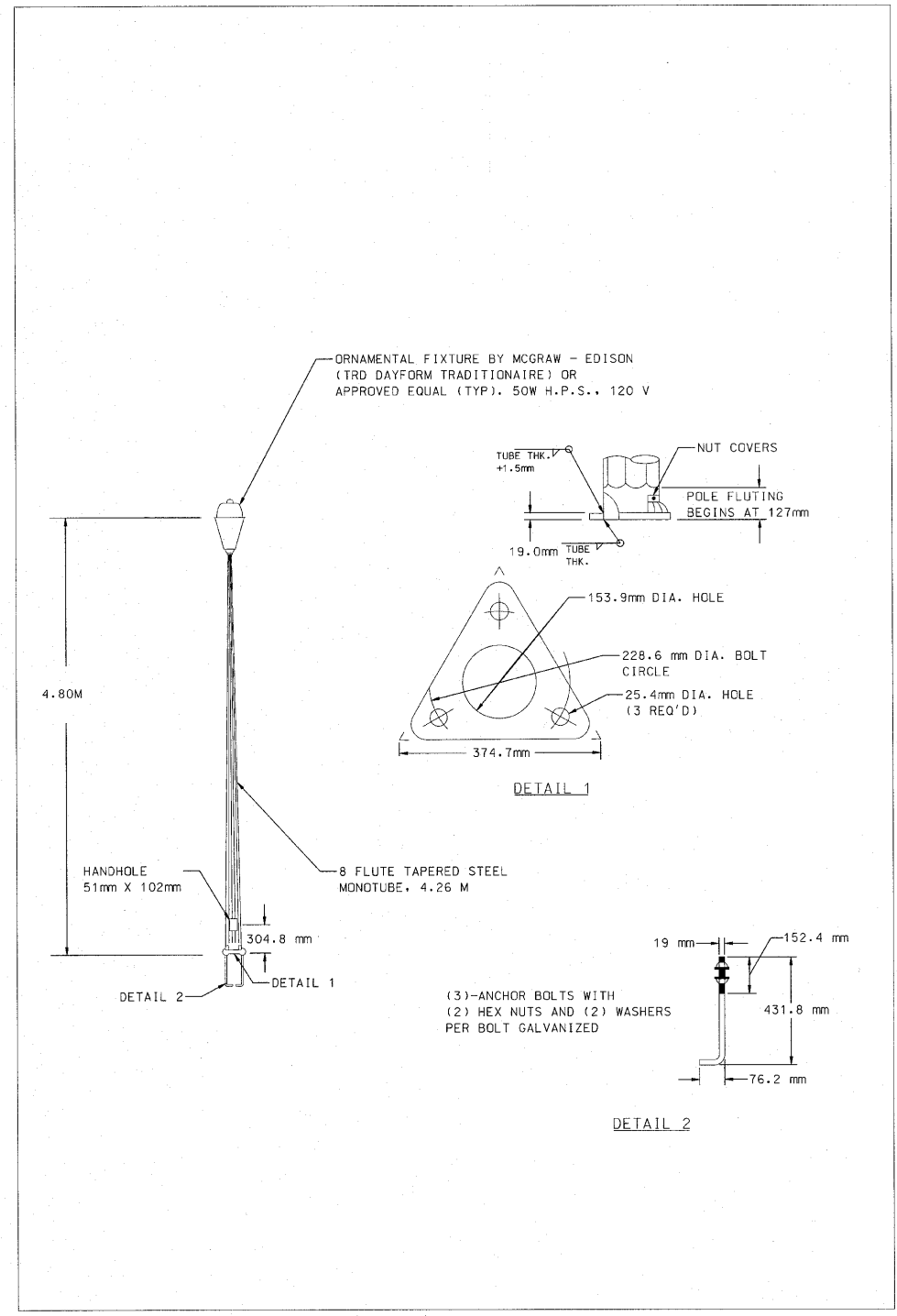
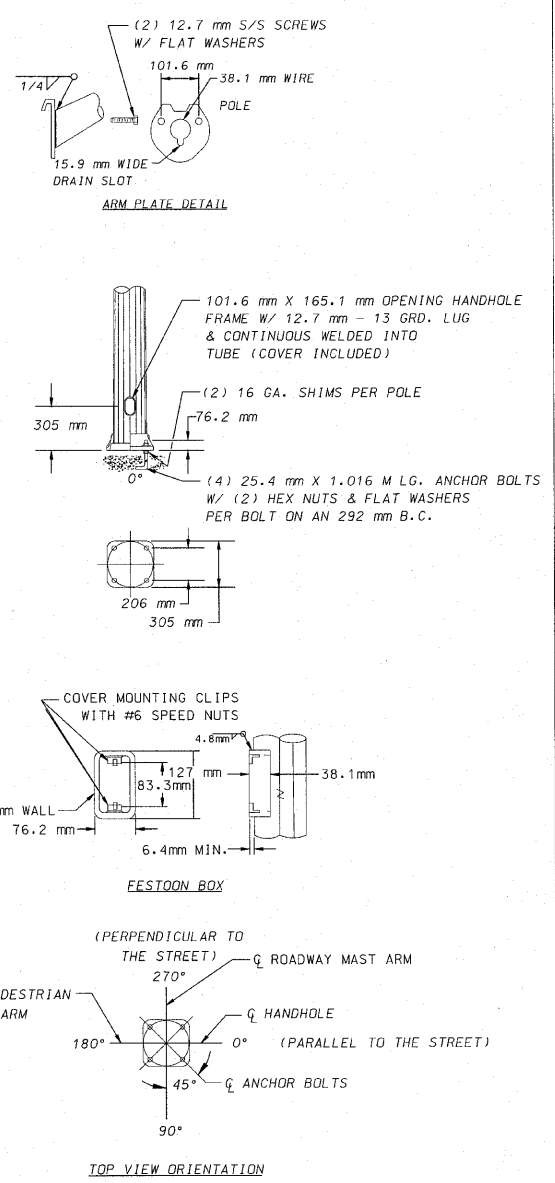
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	PLOT SCALE = \$SCALE\$	DRAWN - MAA, SHM	REVISED -		YORK STREET			3537	(4Y&22-3R-2)	DuPage	284	164
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											FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

MATERIAL SPECIFICATIONS	
TUBE	CHEM. & PHYSICAL PROP. OF ASTM A595 GR. A
ALUM. CASTINGS	CAST ALUMINUM AA319.0F
SCROLL	ASTM A36
ANCHOR BOLTS NUTS	ASTM-A563 GR. A
ANCHOR BOLTS	ASTM-A36 MOD. 55
STN. STL. HARDWARE	AISI 300 SERIES STN. STL.
STEEL PIPE	ASTM-A53 GR. B OR A501
BASE	ASTM-A27



- NOTES:
1. ORNAMENTAL LIGHTING FIXTURES AND BRACKETS SHOWN ARE ROTATED 90°. SEE TOP VIEW FOR TRUE ORIENTATION.
 2. FESTOON OUTLET IS TO BE INSTALLED ON STREET SIDE OF POLE. OUTLET SHALL BE DUPLEX TYPE 20A, 120 V, WITH IN-USE PROTECTIVE COVER.
 3. SEE SHEET NO. 32 FOR POSITION OF HANDHOLE AND POLE NUMBER FOR ALL POLES DETAIL.
 4. LIGHT POLE FINISH SHALL BE TGIC OR URETANE POLYESTER POWDER, BLACK.
 5. ALL LIGHT POLES SHALL BE SUCH TO WITHSTAND 1.3 GUST FACTORS AND 130 KM/H (80MPH) AASHTO CRITERIA FOR WIND AND VIBRATIONS, CAUSED BY THE WIND PRESSURE.

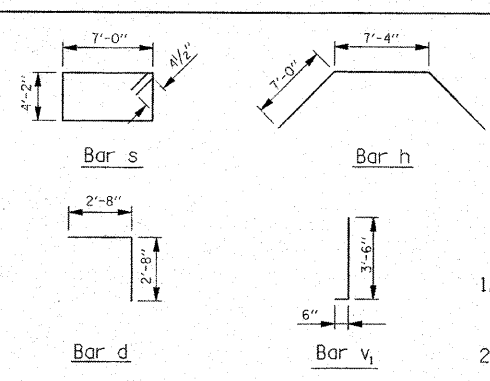
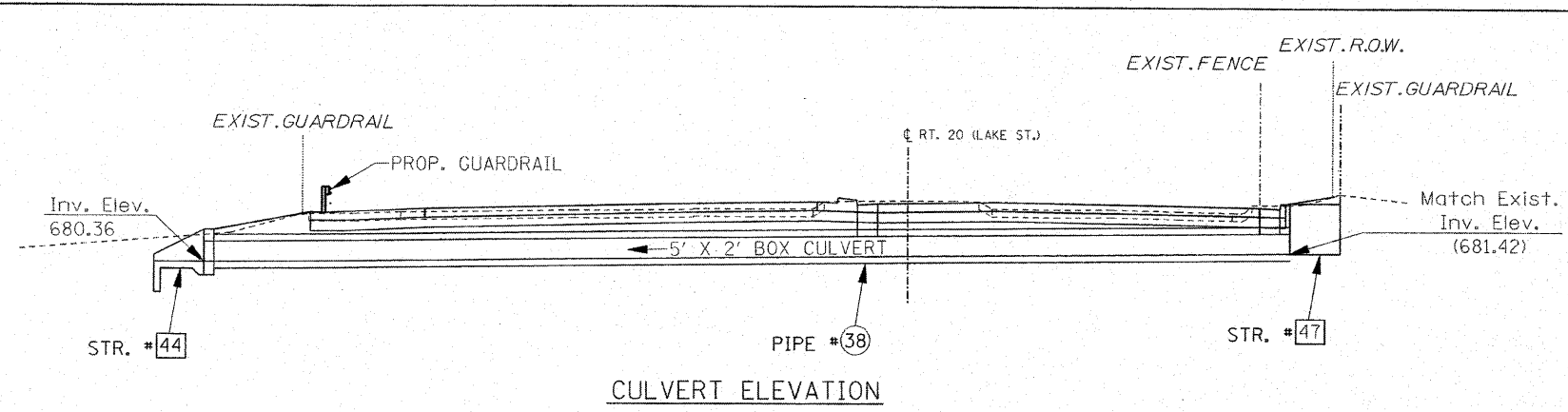
ROADWAY POLE AND MAST ARM DETAIL
WITH MOUNTING BRACKETS FOR PEDESTRIAN LUMINAIRES
(INSTALL ONLY)



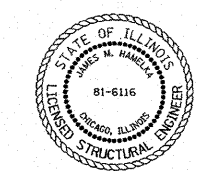
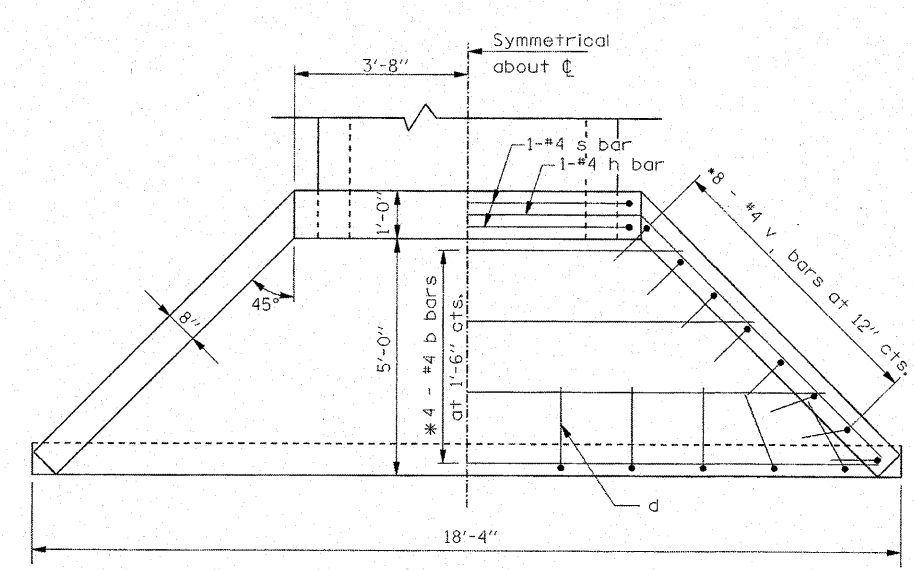
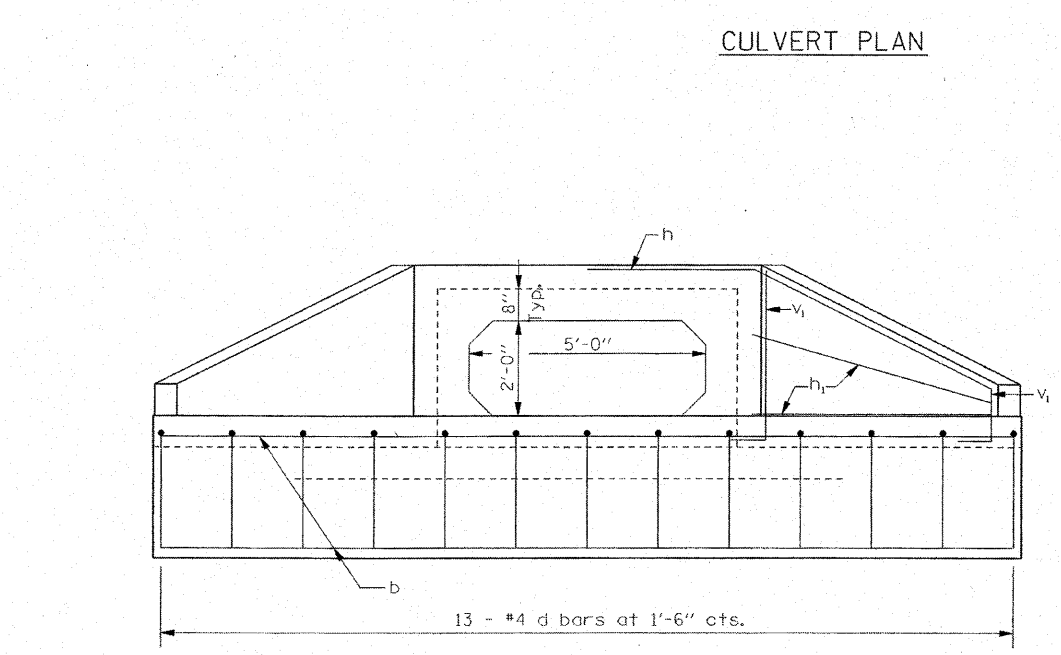
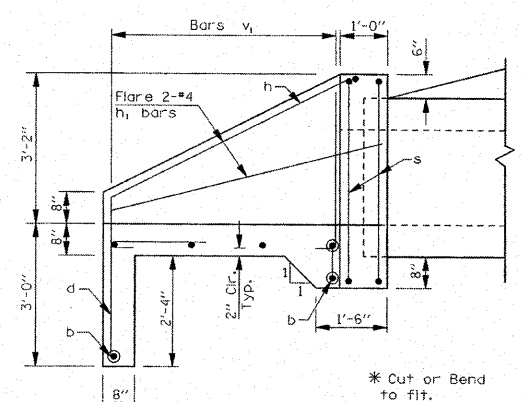
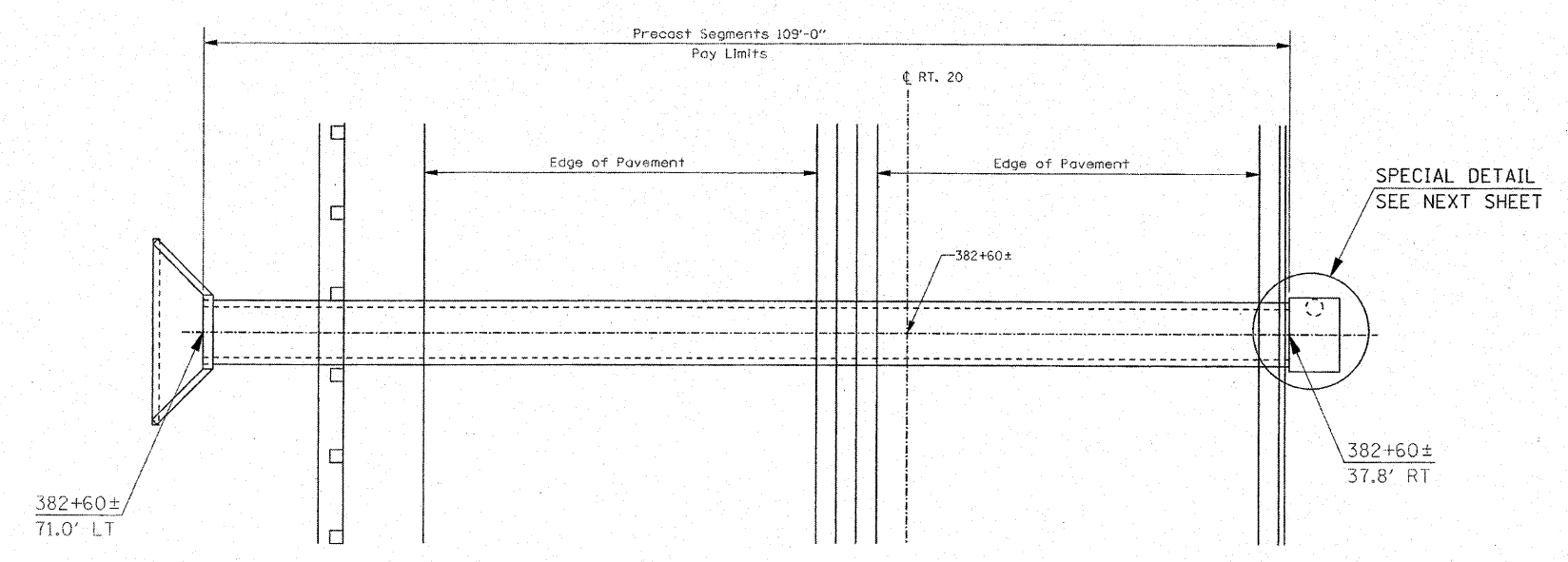
PEDESTRIAN POLE DETAIL
(INSTALL ONLY)

FOR INFORMATION ONLY
THIS DETAIL IS APPLICABLE
FOR ONLY SOUTH OF YORK ROAD

FILE NAME =	USER NAME = #USER#	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STREET LIGHTING DETAILS YORK STREET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - MAA, SHM	REVISED -					3537	(4Y&22-3)R-2	DuPage	284	165
PLOT SCALE = #SCALE#		CHECKED - PKG	REVISED -					CONTRACT NO. D-91-533-00				
PLOT DATE = #DATE#		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
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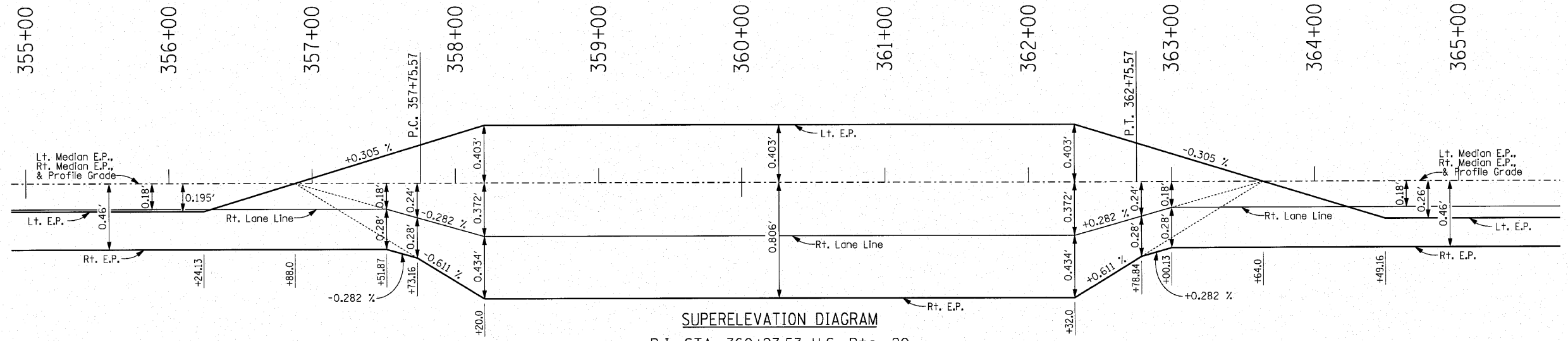


- Notes:
1. Cast-in-place end sections shown, precast end sections may be used.
 2. Contractor shall submit shop drawings for the box culvert, end sections, and reinforcement.
 3. Contractor shall design the precast box culvert for fill less than 2 ft. and HS20 Live Load Conditions.
 4. Contractor shall allow for pipe penetrations as shown on the drainage utility plans.
 5. See next sheet for connection to Existing Manhole.

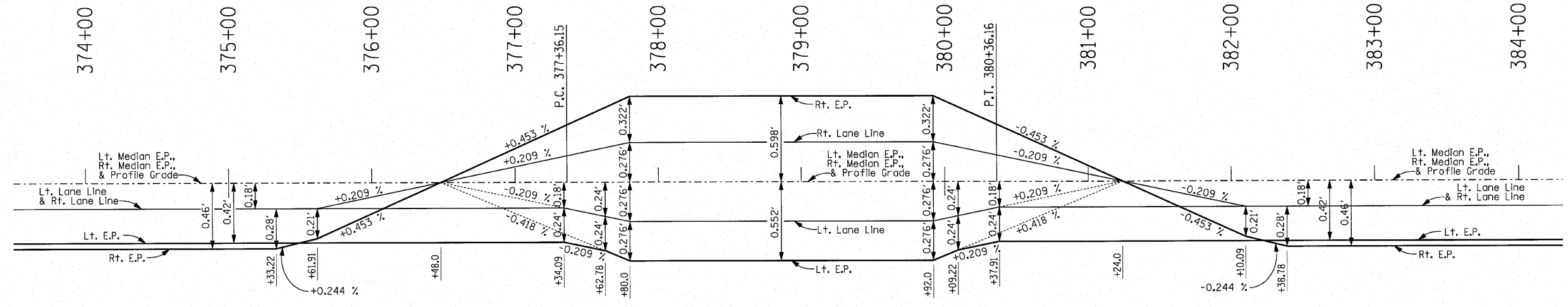


James M. Hamelka, S.E.
ILL. LIC. NO. 081-006116
EXPIRES 11-30-10

FILE NAME = Box Culvert Detail.dgn	USER NAME = IDOT(eng)	DESIGNED - DRAWN - BLV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) CULVERT DETAIL	F.A.U. RTE. 3537	SECTION (4Y & 22-31R-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 166
PLLOT SCALE = 40.0000 / 1"	PLLOT DATE = 3/22/2010	CHECKED - SRG	REVISED -	SCALE: N.T.S.	SHEET NO. 166 OF SHEETS	STA. 382+60±	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 62093	

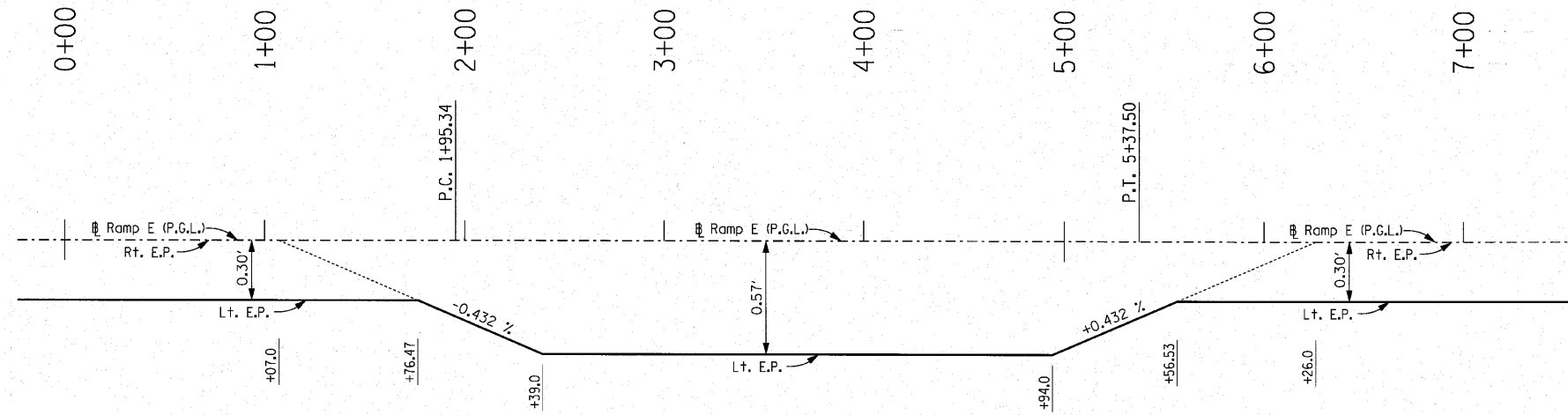


SUPERELEVATION DIAGRAM
 P.I. STA. 360+27.53 U.S. Rte. 20
 DESIGN SPEED = 45 mph
 R = 1636.62' (Rt.)
 SE = 3.10%

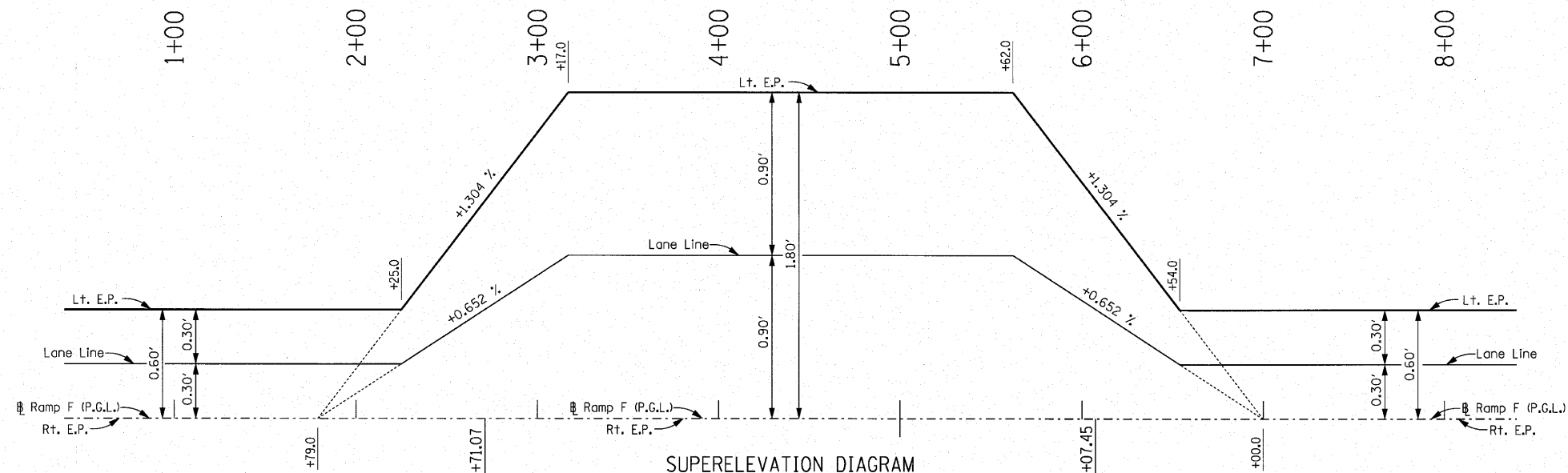


SUPERELEVATION DIAGRAM
 P.I. STA. 378+86.28 U.S. Rte. 20
 DESIGN SPEED = 45 mph
 R = 3074.29' (Lt.)
 SE = 2.30%

FILE NAME = 3751_super.dgn	USER NAME = IODT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. RTE. 20 (LAKE STREET) SUPERELEVATION DIAGRAMS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN - BLV	REVISED -		SCALE: 1:40 H 1:0.4 V	SHEET NO. 168 OF	SHEETS	STA.	TO STA.	3537	4Y & 22-3R-2	DUPAGE	284	168
		CHECKED - SRG	REVISED -								CONTRACT NO. 62093			
		DATE - 1/18/10	REVISED -								FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			



SUPERELEVATION DIAGRAM
 P.I. STA. 3+68.29 Ramp "E"
 DESIGN SPEED = 45 mph
 R = 950.00' (Lt.)
 SE = 3.80%



SUPERELEVATION DIAGRAM
 P.I. STA. 4+59.42 Ramp "F"
 DESIGN SPEED = 30 mph
 R = 300.00' (Rt.)
 SE = 6.00%

FILE NAME = 3751-super.dgn

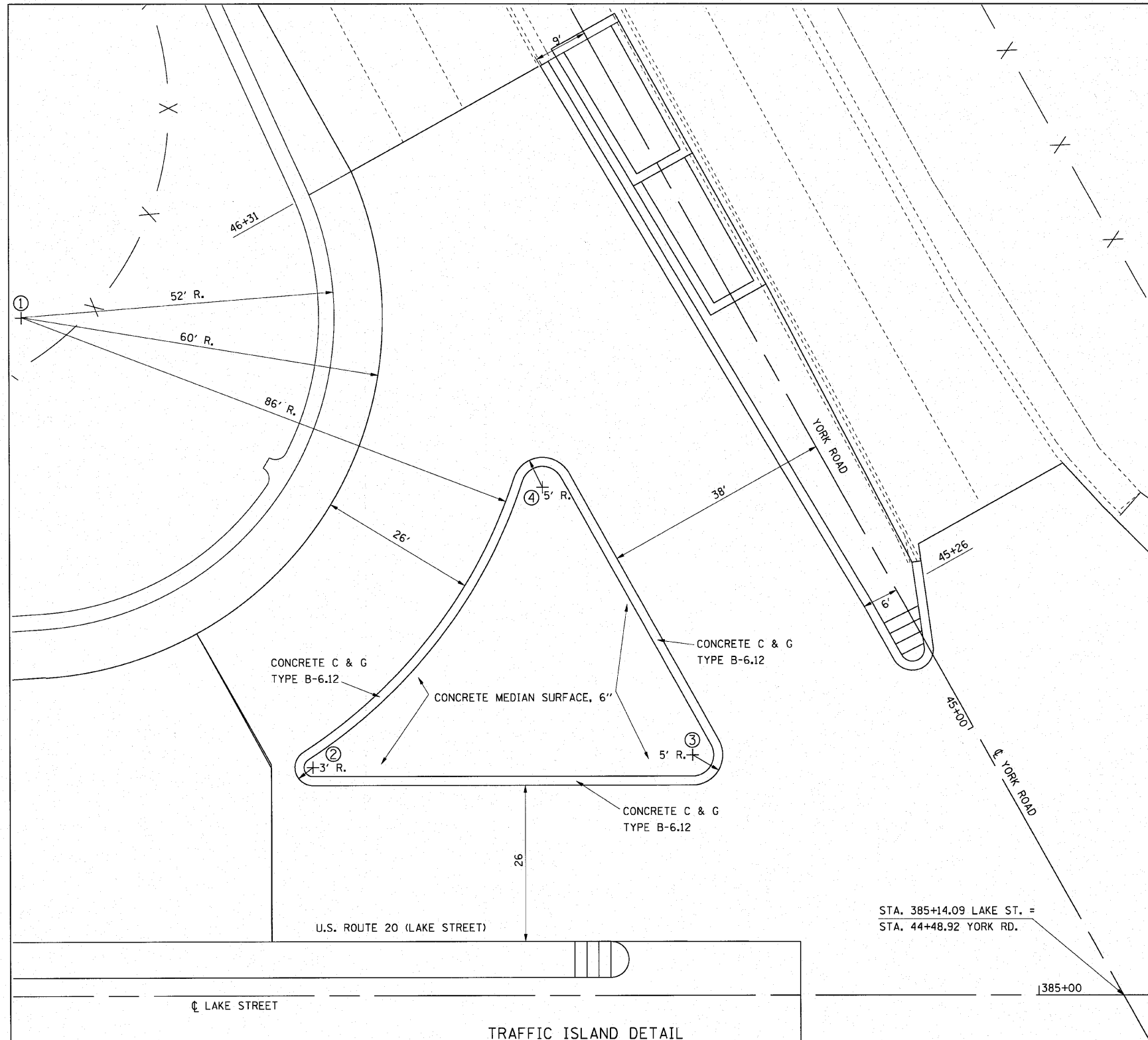
USER NAME = IDDT(eng)	DESIGNED -	REVISED -
DRAWN - BLV	REVISIONS -	
CHECKED - SRC	REVISIONS -	
DATE - 1/18/10	REVISIONS -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMPS E & F
SUPERELEVATION DIAGRAMS

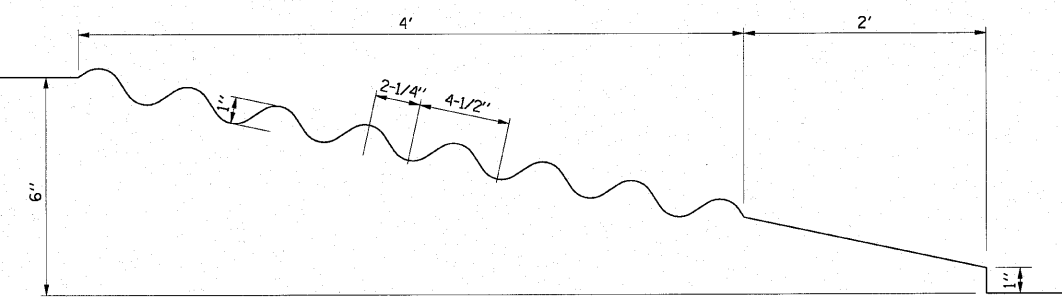
SCALE: 1:40 H 1:0.4 V SHEET NO. 169 OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3)R-2	DUPAGE	284	169
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62093	



CENTER POINTS FOR PROPOSED RADII

POINT	STATION	OFFSET	NORTHING	EASTING
①	383+31.16 LAKE	112.78' LT	1,911,266.59	1,091,392.08
②	383+79.42 LAKE	38.00' LT	1,911,177.71	1,091,396.71
③	384+42.51 LAKE 45+18.74 YORK	40.00' LT 43.00' LT	1,911,148.03	1,091,452.42
④	45+69.72 YORK	43.00' LT	1,911,199.01	1,091,453.03



RAMPED MEDIAN NOSE WITH CORRUGATIONS

- STA. 366+70, LT. "LAKE ST."
- STA. 367+41.88, LT. "LAKE ST."
- STA. 384+28.83, LT. "LAKE ST."
- STA. 385+94.08, RT. "LAKE ST."
- STA. 45+16.33, C "YORK RD"

SEE STANDARD 606306 FOR DETAILS NOT SHOWN
NO SCALE

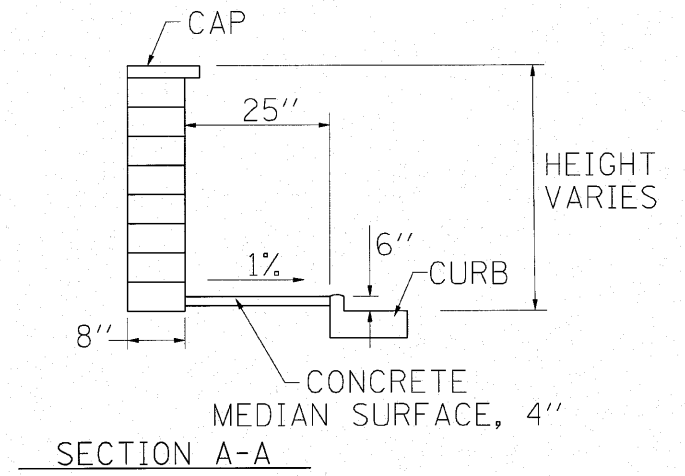
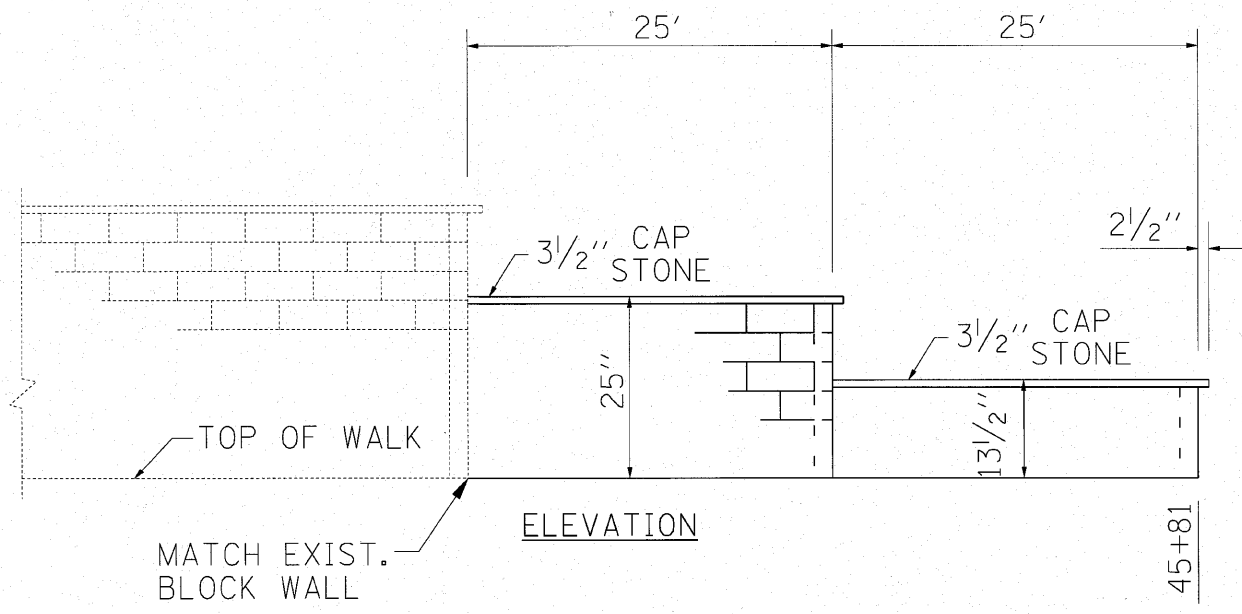
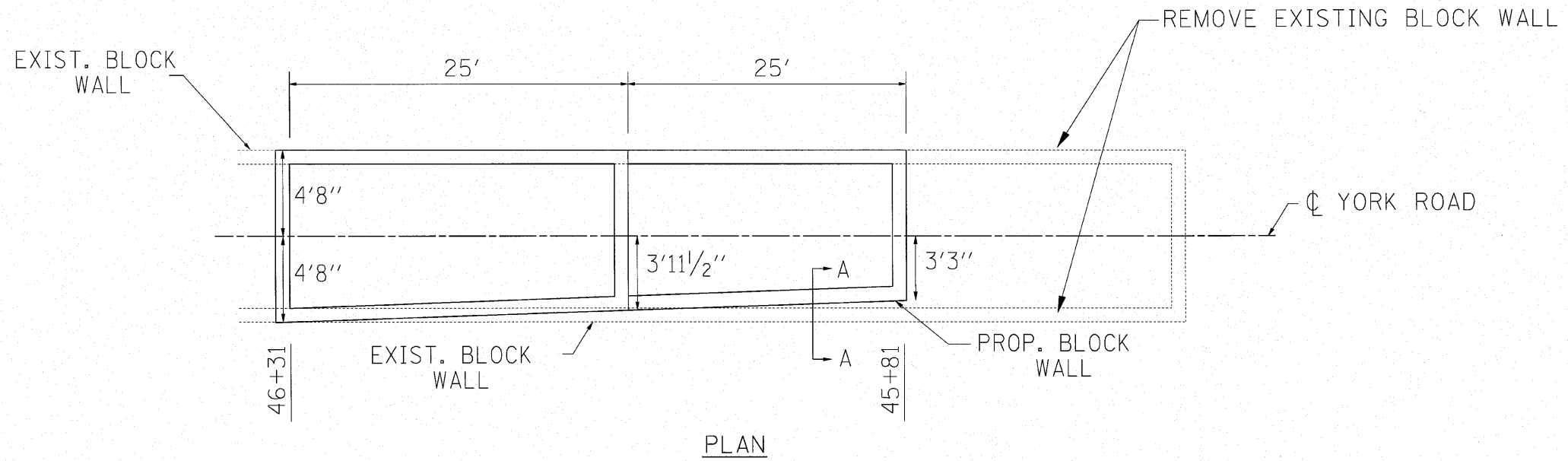
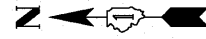
FILE NAME = nose_island_Detail.dgn	USER NAME = Matt Rempfer IDOT V8	DESIGNED -	REVISED -
		DRAWN - BLV	REVISED -
		CHECKED - SRG	REVISED -
		DATE - 1/18/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

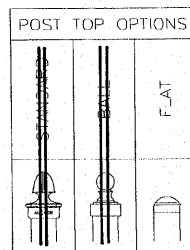
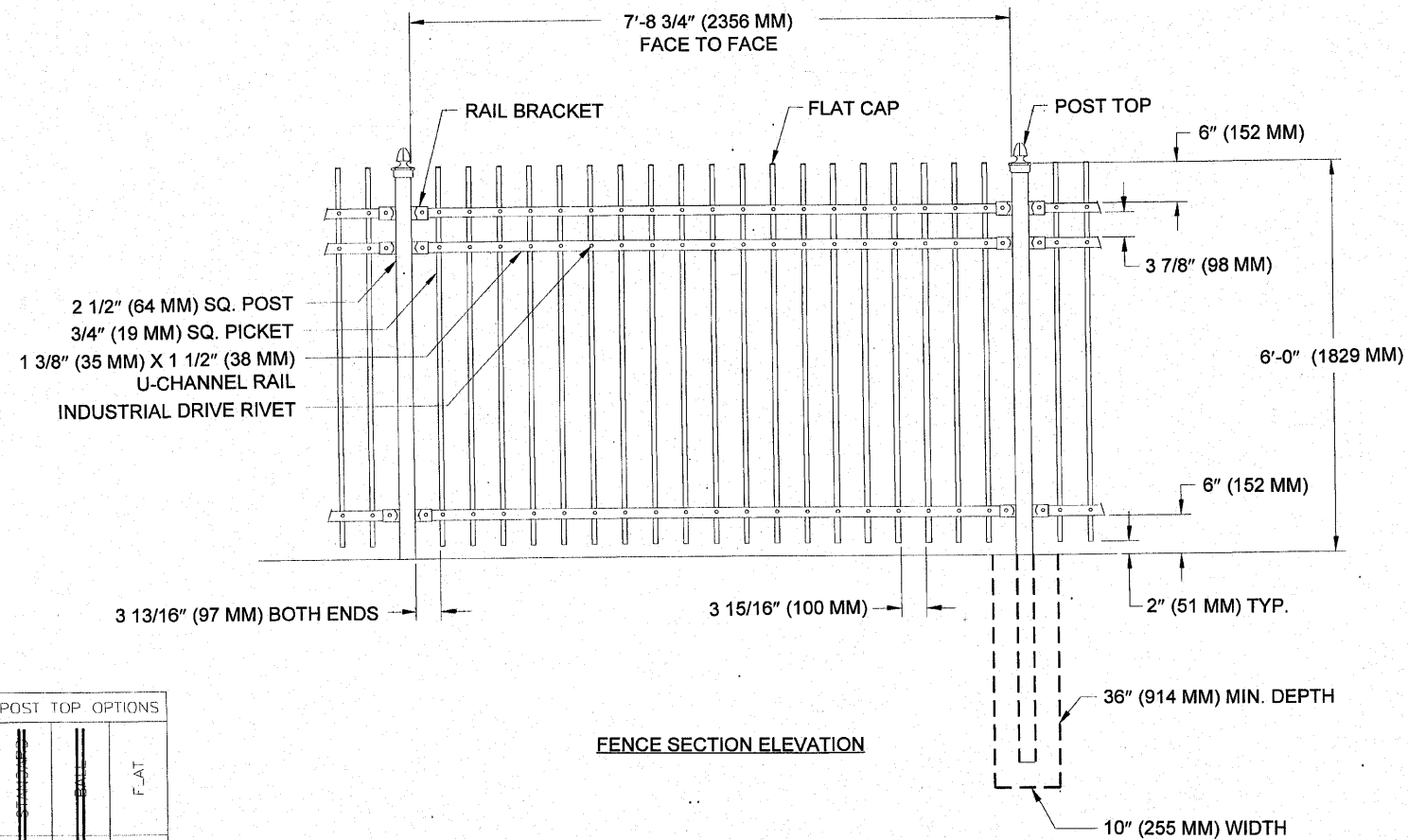
U.S. ROUTE 20 (LAKE STREET)
TRAFFIC ISLAND AND RAMPED MEDIAN NOSE DETAIL

SCALE: AS SHOWN SHEET NO. 170 OF SHEETS STA. TO STA.

F.A.U. RTE. 3537	SECTION (4Y & 22-3R-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 170
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 62093		



FILE NAME = BlkWallDetail.dgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	YORK ROAD BLOCK WALL DETAIL		F.A.U. RTE. = 3537	SECTION = (4Y & 22-31R-2)	COUNTY = DUPAGE	TOTAL SHEETS = 284	SHEET NO. = 171		
	PLOT SCALE = 40.0000' / in.	DRAWN - BLV	REVISED -		SCALE: N.T.S.	SHEET NO. 171 OF	SHEETS	STA.	TO STA.	CONTRACT NO. 62093			
	PLOT DATE = 1/13/2010	CHECKED - SRG	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
		DATE - 1/18/10	REVISED -										



FENCE SECTION ELEVATION

- NOTES:
1. ORNAMENTAL FENCE SHALL BE COLONIAL ALUMINUM ESTATE SERIES WITH FLAT TOP PICKETS AS MANUFACTURED BY MASTER HALCO (1-888-643-3623) OR APPROVED EQUAL.
 2. ALL FENCE COMPONENTS ARE TO HAVE A BLACK POWDER-COAT FINISH.
 3. FENCE HEIGHT, POST SIZE, AND PICKET SIZE DIMENSIONS AND POST TOP OPTION ARE TO BE AS SHOWN ON DETAIL.
 4. INSTALL FENCE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 5. FOOTING WIDTH TO BE 4 TIMES GREATER THAN THE NOMINAL OUTSIDE DIMENSION OF THE FENCE POST.
 6. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
 7. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
 8. ALL WORKS (EXCAVATION, CONCRETE & RELATED WORKS) SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 9. ORNAMENTAL FENCE WORK SHALL BE APPROVED AND ACCEPTED BY THE RESIDENT ENGINEER AND THE CITY OF ELMHURST.

FILE NAME = Orn_Fence_Detail.dgn	USER NAME = IDOT(ang)	DESIGNED - DRAWN - PRH	REVISED - REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED - SRG	REVISED -
	PLOT DATE = 1/14/2010	DATE - 1/18/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ORNAMENTAL FENCE
DETAIL

SCALE: NONE SHEET NO. 172 OF SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3)R-2	DUPAGE	284	172
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62093	

EXISTING SIGN REMOVAL																
EXISTING LOCATION	DIRECTION OF TRAVEL	SIGN NUMBER	WIDTH FT	DEPTH FT	SIGN AREA SF	SIGNS						RELOCATE SIGN PANEL ASSEMBLY, EA	REMOVE OVERHEAD STRUCTURE - SPAN, EA	REMOVE GROUND MOUNT SIGN SUPPORT, EA	REMOVE CONCRETE FOUNDATION - GROUND MOUNT, EA	
						REMOVE SIGN PANEL			REMOVE SIGN PANEL ASSEMBLY		TYPE A EA					TYPE B EA
						TYPE 1	TYPE 2	TYPE 3	TYPE A EA	TYPE B EA						
356+10 L	EB	R4-7 R3-4	3.00 3.00	4.00 3.00	12.00 9.00		12.00				1					
356+10 R	EB	R2-1	2.50	3.00	7.50	7.50				1						
360+00 R	EB	GUIDE	10.00	6.00	60.00		60.00					1	1			
362+75 L	EB	GUIDE	10.00	6.00	60.00		60.00					1	1			
366+00	EB	OVERHEAD			0.00	0.00						1				
368+25 L	EB	W12-1	3.00	3.00	9.00	9.00				1						
369+00	EB	M3-2 M1-100 M4-4 M6-2L	2.00 2.00 2.00 1.75	1.00 2.00 1.00 1.25	2.000 4.000 2.000 2.188	2.00 4.00 2.00 2.19				1						
370+30	EB	W1-4L	3.00	3.00	9.00	9.00				1						
371+30	EB	W1-8	1.75	3.00	5.250	5.25				1						
372+20	EB	W1-8	1.75	3.00	5.250	5.25				1						
FROM EX. I/S		W3-1A	3.00	3.00	9.00	9.00				1						
FROM EX. I/S		R5-1A	3.00	2.00	6.00	6.00				1						
FROM EX. I/S		W1-8 R5-1A	1.75 3.00	3.00 2.00	5.250 6.000	5.25 6.00				1						
FROM EX. I/S		R3-2	3.00	3.00	9.00	9.00				1						
FROM EX. I/S		M3-4 M1-4 M6-3 M3-2 M1-4 M6-1R M3-2A M1-1 M6-1RA SHOULDER	2.00 2.00 1.75 2.00 2.00 1.75 2.00 2.50 1.75 2.00	1.00 2.00 1.25 1.00 2.00 1.25 1.00 2.00 1.25 2.00	2.000 4.000 2.188 2.000 4.000 2.188 2.000 5.000 2.188 4.000	2.00 4.00 2.19 2.00 4.00 2.19 2.00 5.00 2.19 4.00			1							
FROM EX. I/S		R3-8	3.00	2.50	7.500	7.50				1						
FROM EX. I/S		D1-2A	6.00	4.00	24.000		24.00					1	1			
FROM EX. I/S		M3-4 M1-4 D1-1C M6-3 M3-2 M1-4 D1-1C M5-1R	2.00 2.00 2.00 1.75 2.00 2.00 1.00 1.75	1.00 2.00 1.00 1.25 1.00 2.00 2.00 1.25	2.000 4.000 2.000 2.188 2.000 4.000 2.000 2.188	2.00 4.00 2.00 2.19 2.00 4.00 2.00 2.19			1							
FROM EX. I/S		R5-1100	4.00	4.50	18.000		18.00			1						
FROM EX. I/S		W4-3	4.00	4.00	16.000		16.00			1						
FROM EX. I/S		M3-4 M1-4	2.00 2.00	1.00 2.00	2.000 4.000	2.00 4.00				1						
FROM EX. I/S		R2-1	2.50	3.00	7.500	7.50				1						
FROM EX. I/S		W4-2R	3.00	3.00	9.000	9.00				1						
FROM EX. I/S		RIDE SHARE HOT LINE	3.00	3.00	9.000	9.00					1.00					
RAMP E 9+00		W4-1	3.00	3.00	9.000	9.00				1						
RAMP E 6+00 R		R5-1A	3.00	2.00	6.000	6.00				1						
RAMP E 6+00 L		R5-1A	3.00	2.00	6.000	6.00				1						
383+00 R	EB	R5-1 R3-8	3.00 3.00	3.00 2.00	9.000 6.000	9.00 6.00				1						
384+40 L	EB	R4-7	3.00	4.00	12.000		12.00			1						
SUBTOTALS 1					417.37	215.37	58.00	144.00	20.00	4.00	1.00	1.00	3.00	3.00		

EXISTING SIGN REMOVAL																
EXISTING LOCATION	DIRECTION OF TRAVEL	SIGN NUMBER	WIDTH FT	DEPTH FT	SIGN AREA SF	SIGNS						RELOCATE SIGN PANEL ASSEMBLY, EA	REMOVE OVERHEAD STRUCTURE - SPAN, EA	REMOVE GROUND MOUNT SIGN SUPPORT, EA	REMOVE CONCRETE FOUNDATION - GROUND MOUNT, EA	
						REMOVE SIGN PANEL			REMOVE SIGN PANEL ASSEMBLY		TYPE A EA					TYPE B EA
						TYPE 1	TYPE 2	TYPE 3	TYPE A EA	TYPE B EA						
384+50 R	EB	R5-1 R3-8	3.00 2.50	3.00 3.00	9.000 7.500	9.00 7.50					1					
385+00 R	EB	D9-2 ELMHURST M6-3A	2.00 2.00 1.75	2.00 2.00 1.25	4.000 4.000 2.188	4.00 4.00 2.19					1					
385+70 R	WB	M4-5 M1-4 D1-1C M6-3	2.00 2.00 2.00 1.75	1.00 2.00 1.00 1.25	2.000 4.000 2.000 2.188	2.00 4.00 2.00 2.19					1					
386+00R	WB	R5-1	3.00	3.00	9.000	9.00					1					
386+00 L	EB	R5-2 R5-1 D9-2 M6-1LA	3.00 3.00 2.00 1.75	3.00 3.00 2.00 1.25	9.000 9.000 4.000 2.188	9.00 9.00 4.00 2.19					1					
387+00 L	EB	R6-1R	3.00	1.00	3.000	3.00					1					
389+00 R	WB	R5-1a	3.00	2.00	6.000	6.00					1					
389+00 L	WB	R5-1a	3.00	2.00	6.000	6.00					1					
LARCH AVE		R1-1 TO YORK RD	2.50 2.00	2.50 2.00	6.250 4.000	6.25 4.00					1					
RAMP F 4+00 L		R5-1	3.00	3.00	9.000	9.00					1					
RAMP F 4+00 R		R5-1	3.00	3.00	9.000	9.00					1					
SUBTOTALS 2					101.32	101.32	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00		
SUBTOTALS 1					417.37	215.37	58.00	144.00	20.00	4.00	1.00	1.00	3.00	3.00		
TOTALS					518.69	316.69	58.00	144.00	31.00	4.00	1.00	1.00	3.00	3.00		

SIGNING QUANTITY SUMMARY		
ITEM	UNIT	TOTAL QNTY.
SIGN PANEL - TYPE 1	SF	406.94
SIGN PANEL - TYPE 2	SF	111.25
SIGN PANEL - TYPE 3	SF	712.00
REMOVE SIGN PANEL ASSEMBLY - TYPE A	EA	31.00
REMOVE SIGN PANEL ASSEMBLY - TYPE B	EA	4.00
REMOVE SIGN PANEL - TYPE 3	SF	144.00
RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EA	1.00
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	LB	4169.25
METAL POST - TYPE A	FT	405.75
METAL POST - TYPE B	FT	977.5
CONCRETE FOUNDATIONS	CY	14.7
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EA	1.00
REMOVE GROUND-MOUNTED SIGN SUPPORT	EA	3.00
REMOVE CONCRETE FOUNDATION-GROUND MOUNT	EA	3.00
REINFORCING BARS	LB	1638

FILE NAME = Sign Qty.dgn
Sign Qty.dgn

USER NAME = 1001engj
DESIGNED -
DRAWN - BLV
CHECKED - SRG
DATE - 1/18/10
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20 (LAKE STREET)
SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET NO. 173 OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y&22-3)R-2	DUPAGE	284	173
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62093	

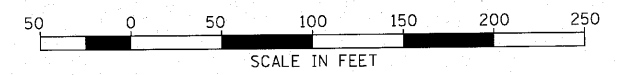
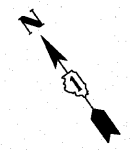
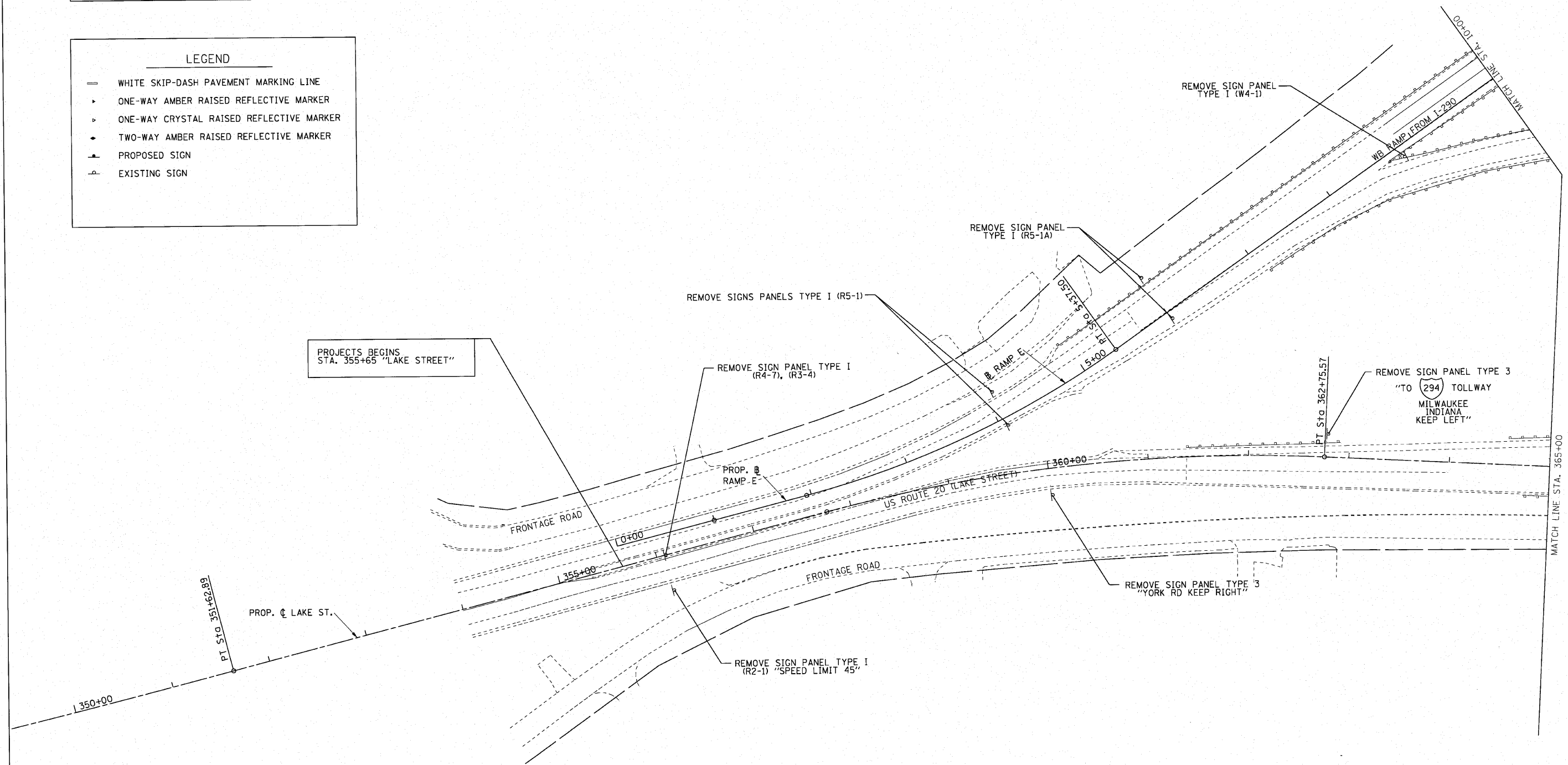
Assembly Number	Proposed Location	Direction of Travel	Sign Number	Width FT	Depth FT	Sign Area SF	Sign Disposition	Clear Height from Ground FT	Signs			Metal Post	Supports & Foundations								
									Type 1	Type 2	Type 3		Type A	Type B	Breakaway Supports		Steel	Concrete	Rebar		
									Area=8sf	9sf<Area<24sf	Area=24sf		LF	LF	W6x9	W6x16	LB	CY	LB		
17	377+00		R6-2R	1.50	2.00	3.000	NEW	7	3.00			12.50									
18	LARCH AVE		R1-1	2.50	2.50	6.250	NEW	5	6.25				28.00								
			R3-5R	2.00	2.50	5.000			5.00												
19	376+00 R	WB		8.00	9.50	76.000		7		76.00					38	570	1.4	156.0			
19A	376+00 L	WB		8.00	7.50	60.000		7		60.00				33.5		301.5	1.4	156.0			
20	374+20 R	WB	R3-100R	2.00	2.00	4.000	NEW	7	4.00			12.50									
21	371+00 R	WB	R3-8	3.75	2.00	7.500		7	7.50				26.00								
21	371+00 L	WB	R3-8	3.75	2.00	7.500		7	7.50				26.00								
22	369+00 M	WB		12.00	6.50	78.000		7		78.00				31.5		283.5	1.4	156.0			
23	369+00 R	WB		12.50	6.50	81.250		7		81.25					33	495	1.4	156.0			
23	RAMP F	WB		12.50	6.50	81.250		7		81.25					33	495	1.4	156.0			
24	366+00 R	WB	M3-4	2.00	1.00	2.000	NEW	7	2.00				14.00								
			M1-4	2.00	2.00	4.000			4.00												
24	358+00 R	WB	M3-4	2.00	1.00	2.000	NEW	7	2.00				14.00								
			M1-4	2.00	2.00	4.000			4.00												
25	360+00 R	WB	W4-3	3.00	3.00	9.000	NEW	7	9.00				25.00								
25	RAMP F 7+40	L	W4-3	3.00	3.00	9.000	NEW	7	9.00				25.00								
26	RAMP E 11+00 L	L	W4-2R	3.00	3.00	9.000	NEW	7	9.00				25.00								
26	RAMP E 11+00 R	R	W4-2R	3.00	3.00	9.000	NEW	7	9.00				25.00								
27	RAMP F 3+00 L	L	R5-100	4.00	5.50	22.000	NEW	7		22.00				29.5		265.5	1.4	156.0			
27	RAMP F 3+00 R	R	R5-100	4.00	5.50	22.000	NEW	7		22.00				29.5		265.5	1.4	156.0			
28	RAMP F 5+00 R	R	M3-2A	2.50	1.25	3.125	NEW	7	3.13				61.00								
			M1-1	3.75	3.00	11.250			11.25												
			M3-2	2.50	1.25	3.125	NEW	7	3.13												
			M1-4	3.00	3.00	9.000			9.00												
29	386+20 L	EB	R6-1R	3.00	1.00	3.000	NEW	7	3.00				12.00								
30	385+00 R	EB	D9-2	2.00	2.00	4.000	NEW	7	4.00				33.00								
				2.00	2.00	4.000			4.00												
			M6-3A	1.75	1.25	2.188			2.19												
31	388+50 R	WB	R5-1A	3.00	2.00	6.000	NEW	7	6.00				13.00								
31	388+50 L	WB	R5-1A	3.00	2.00	6.000	NEW	7	6.00				13.00								
31	RAMP E 5+00 L	L	R5-1A	3.00	2.00	6.000	NEW	7	6.00				13.00								
31	RAMP E 5+00 R	R	R5-1A	3.00	2.00	6.000	NEW	7	6.00				13.00								
32	384+50 R	EB	R5-1	3.00	3.00	9.000	NEW	7	9.00				27.00								
32	385+50 R	WB	R5-1	3.00	3.00	9.000	NEW	7	9.00				27.00								
32	387+00 R	WB	R5-1	3.00	3.00	9.000	NEW	7	9.00				27.00								
32	387+00 L	WB	R5-1	3.00	3.00	9.000	NEW	7	9.00				27.00								
32	RAMP E 4+00 L	L	R5-1	3.00	3.00	9.000	NEW	7	9.00				27.00								
32	RAMP E 4+00 R	R	R5-1	3.00	3.00	9.000	NEW	7	9.00				27.00								
33	386+00 L	WB	D9-2	2.00	2.00	4.000	NEW	7	4.00				12.75								
			M6-1LA	1.75	1.25	2.188	NEW		2.19												
34	RAMP F 4+00 R	R	Ride Share Hot Line			12.000		7				1	30.00								
35	388+50 R	WB	R3-8k	4	2.5	10.000	NEW	7		10.00			27.00								
35	388+50 L	WB	R3-8k	4	2.5	10.000	NEW	7		10.00			27.00								
36	Larch Ave		R1-1	2.5	2.5	6.250	NEW	7	6.25				13.50								
36	Frontage Rd.		R1-1	2.5	2.5	6.250	NEW	7	6.25				13.50								
37	386+50 R	WB	M4-5	2.00	1.00	2.000	NEW	5	2.00				33.00								
			M1-4	2.00	2.00	4.000	NEW		4.00												
			D1-1C	2.00	1.00	2.000	NEW		2.00												
			M6-3	1.75	1.25	2.188	NEW		2.19												
							Total		406.94												
										111.25											
										712.00											
										1.00											
										405.75											
										977.50											
										168.25											
										177.00											
										4169.3											
										14.7											
										1638.0											

SIGN NOTE

EXISTING SIGNS ARE TO BE REMOVED AND DISCARDED UNLESS THEY ARE LABELED TO BE RESET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE SIGNS.

LEGEND

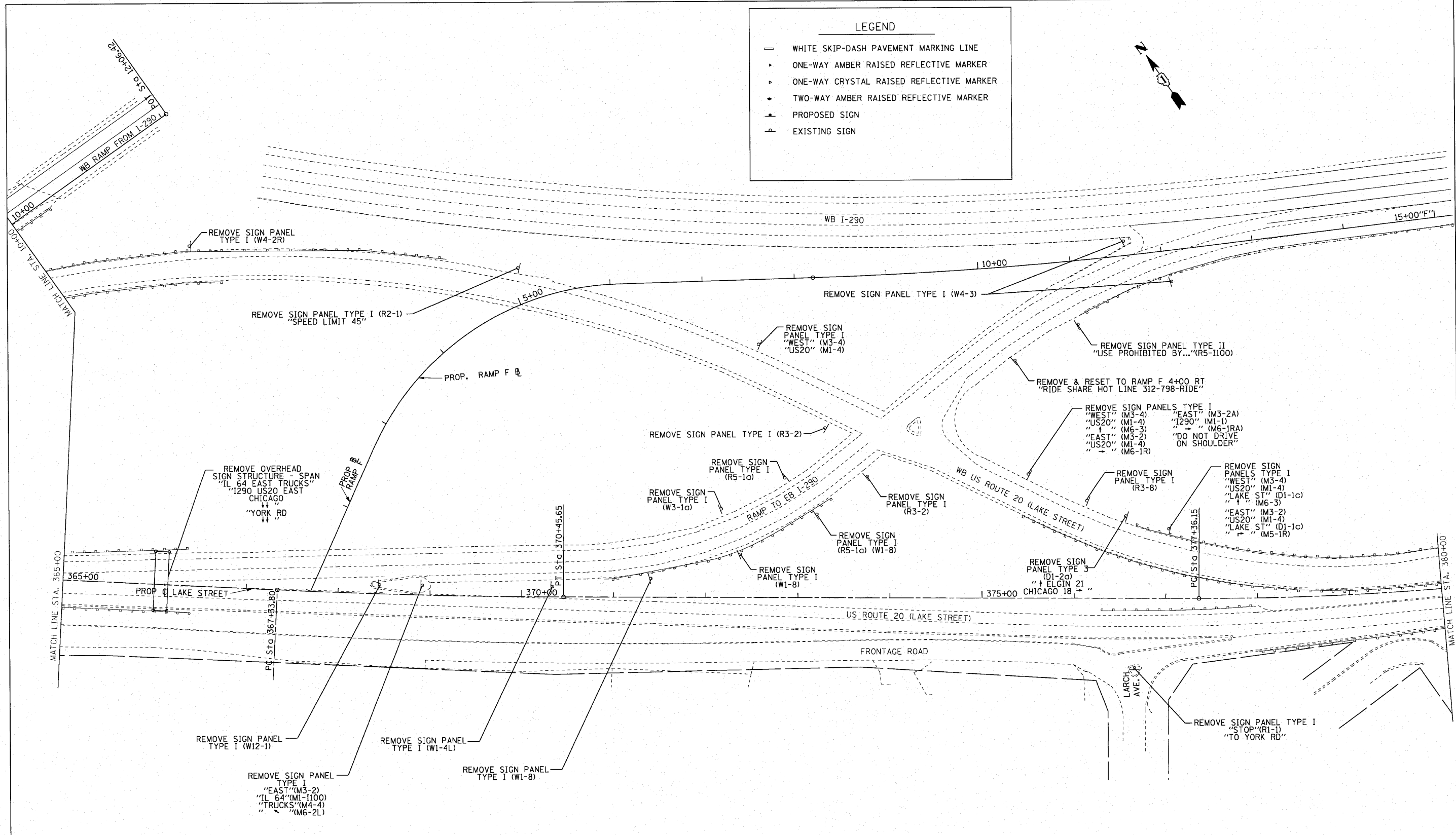
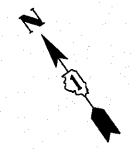
- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ▷ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ▲ PROPOSED SIGN
- ◊ EXISTING SIGN



FILE NAME = signing_plan.exstdgn signing_plan.exstdgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) & RAMP "E" EXISTING SIGNING PLAN			F.A.U. RTE. 3537	SECTION (4Y & 22-3)R-2	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 176
PLOT SCALE = 1"=50'		CHECKED - SRG	REVISED -		SCALE: 1"=50'	SHEET NO. 176 OF	SHEETS	STA. 355+65	TO STA. 365+00	CONTRACT NO. 62093		
PLOT DATE = 3/22/2010		DATE - 1/18/10	REVISED -		ILLINOIS FED. AID PROJECT							

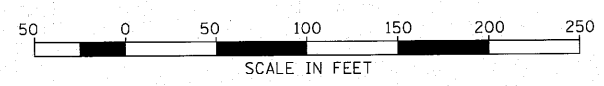
LEGEND

- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ◀ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ▲ PROPOSED SIGN
- ◻ EXISTING SIGN



SIGN NOTE

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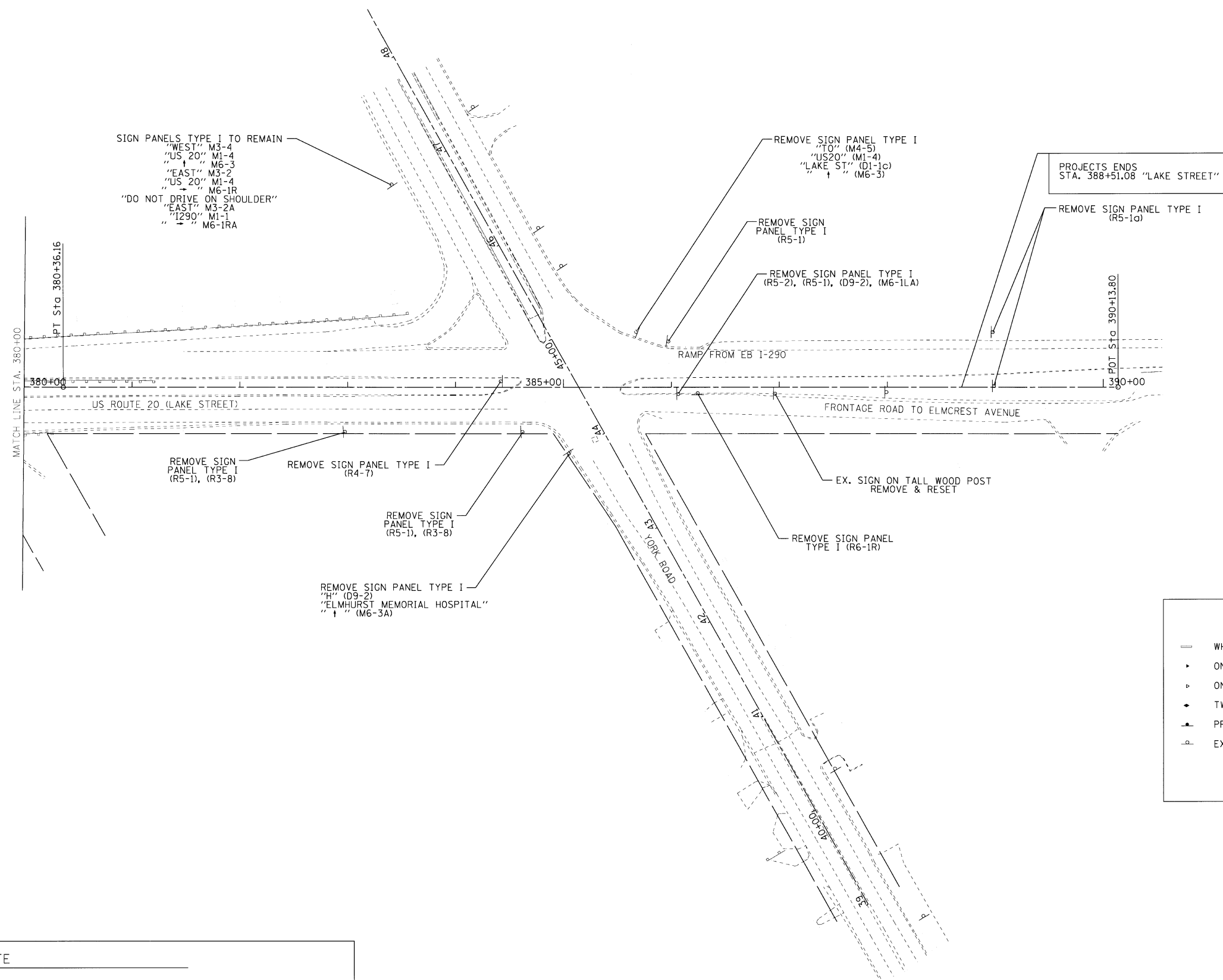
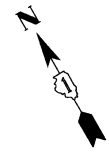
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signing-plan-exst.dgn		DRAWN - BLV	REVISED -
PLOT SCALE = 1"=50'		CHECKED - SRG	REVISED -
PLOT DATE = 1/13/2010		DATE - 1/18/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 20 (LAKE STREET)
EXISTING SIGNING PLAN**

SCALE: 1"=50' SHEET NO. 177 OF SHEETS STA. 365+00 TO STA. 380+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-31R-2)	DUPAGE	284	177
CONTRACT NO. 62093			ILLINOIS FED. AID PROJECT	



SIGN PANELS TYPE I TO REMAIN
 "WEST" M3-4
 "US 20" M1-4
 "↑" M6-3
 "EAST" M3-2
 "US 20" M1-4
 "↑" M6-1R
 "DO NOT DRIVE ON SHOULDER"
 "EAST" M3-2A
 "↑" M1-1
 "↑" M6-1RA

REMOVE SIGN PANEL TYPE I
 "TO" (M4-5)
 "US20" (M1-4)
 "LAKE ST" (D1-1c)
 "↑" (M6-3)

PROJECTS ENDS
 STA. 388+51.08 "LAKE STREET"

REMOVE SIGN PANEL TYPE I
 (R5-1)

REMOVE SIGN PANEL TYPE I
 (R5-2), (R5-1), (D9-2), (M6-1LA)

REMOVE SIGN PANEL TYPE I
 (R5-1a)

RAMP FROM EB I-290

FRONTAGE ROAD TO ELMCREST AVENUE

EX. SIGN ON TALL WOOD POST
 REMOVE & RESET

REMOVE SIGN PANEL
 TYPE I (R6-1R)

REMOVE SIGN PANEL TYPE I
 (R5-1), (R3-8)

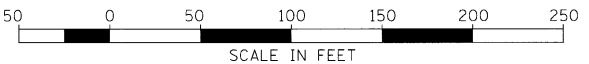
REMOVE SIGN PANEL TYPE I
 (R4-7)

REMOVE SIGN PANEL TYPE I
 (R5-1), (R3-8)

REMOVE SIGN PANEL TYPE I
 "H" (D9-2)
 "ELMHURST MEMORIAL HOSPITAL"
 "↑" (M6-3A)

LEGEND	
	WHITE SKIP-DASH PAVEMENT MARKING LINE
	ONE-WAY AMBER RAISED REFLECTIVE MARKER
	ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
	TWO-WAY AMBER RAISED REFLECTIVE MARKER
	PROPOSED SIGN
	EXISTING SIGN

SIGN NOTE
 EXISTING SIGNS ARE TO BE REMOVED AND DISCARDED UNLESS THEY ARE LABELED TO BE RESET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE SIGNS.



FILE NAME = signing_plan.exstdgn signing_plan.exstdgn	USER NAME = ID01(ang)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) & YORK ROAD EXISTING SIGNING PLAN			F.A.U. RTE. 3537	SECTION (4Y & 22-3IR-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 178
	PLOT SCALE = 1"=50'	CHECKED - SRG	REVISED -		SCALE: 1"=50'	SHEET NO. 178 OF	SHEETS	STA. 380+00	TO STA. 390+00	CONTRACT NO. 62093		
	PLOT DATE = 1/15/2010	DATE - 1/18/10	REVISED -		ILLINOIS FED. AID PROJECT							

M3-2A
24 X 12
M1-1
30 X 24
M5-1L
21 X 15

M4-5A
24 X 12
M3-4A
24 X 12
M1-1
30 X 24
M6-3A
21 X 15

M3-2
24 X 12
M1-4
24 X 24
M5-1L
21 X 15

TO
EAST EAST WEST
20 290 290
← ← ↑

1

STA. 356+00 R, EB
STA. 356+00 L, EB

↑ Frontage Rd.
TO York Rd.

16.5' X 5.5'

2

STA. 359+00 R, EB

← Chicago
↑ Elmhurst

13.5' X 9.0'

3

STA. 362+00 R, EB

LEFT
TURN
LANE

R3-1100L
24 X 24

4

STA. 380+35 L, EB

ONLY ONLY

R3-8
30 X 24

5

STA. 363+75 L, EB
STA. 366+50 L, EB

← 290 20 EAST
↑ TO York Rd.

14.5' X 8.5'

6

STA. 367+00 R, EB

M3-2A
24 X 12
M1-1
30 X 24
M6-1LA
21 X 15

EAST EAST
290 20
← ←

M3-2
24 X 12
M1-4
24 X 24
M6-1L
21 X 15

7

STA. 367+79 L, EB

↑

R4-7
24 X 30

8

STA. 367+80 L, EB
STA. 384+20 L, WB
STA. 386+00 L, EB

NO RIGHT TURN

R3-1
24 X 24

9

STA. 376+50 R, EB

RIGHT LANE
MUST
TURN RIGHT

ONLY

R3-7R

10

STA. 380+35 R, EB
STA. 375+00 R, WB

ONLY

R3-5L
24 X 30

11

STA. 383+65 L, EB

ONLY

R3-5R
30 X 30

12

STA. 383+65 R, EB

TO
WEST
290
←

M4-5A
24 X 12
M3-4A
24 X 12
M1-1
30 X 24
M5-1LA
21 X 15

13

STA. 378+00 R, EB

TO
WEST
290
←

M4-5A
24 X 12
M3-4A
24 X 12
M1-1
30 X 24
M6-3LA
21 X 15

14

STA. 384+00 R, EB

SPEED
LIMIT
45

R2-1
30 X 36

15

STA. 369+00 R, EB
STA. 378+00 R, WB
STA. 364+00 R, WB

M4-5A
24 X 12
M3-4A
24 X 12
M1-4
24 X 24
M6-3A
21 X 15

TO TO
WEST EAST
20 290
↑ ↑

16

STA. 381+00 R, WB

ONE
WAY
→

R6-2R
18 X 24

17

STA. 377+00
FACING LARCH AVE.

STOP
ONLY

18

LARCH AVE.

WEST
20
Lake St.
LEFT LANE

8.0' X 7.5'

19A

STA. 376+00 L, WB

EAST EAST
290 20
Chicago
Lake St.
RIGHT LANE

8.0' X 9.5'

19

STA. 376+00 R, WB

ONLY ONLY ONLY

R3-8
45 X 24

21

STA. 371+00 R, WB
STA. 371+00 L, WB

↑ 20 WEST
Lake St.

12.0' X 6.5'

22

STA. 369+00 L, WB

290 20 EAST
Chicago →

12.5' X 6.5'

23

STA. 369+00 R, WB
RAMP F, WB

WEST
20

M3-4
24 X 12
M1-4
24 X 24

24

STA. 366+00 R, WB
STA. 356+00 R, WB

↑

W4-3
36 X 36

25

STA. 359+00 R, WB
STA. 7+40 L, RAMP F

||

W4-2R
36 X 36

26

STA. 11+00 R, RAMP E
STA. 11+00 L, RAMP E

USE
PROHIBITED
BY
MOTOR DRIVEN CYCLES
FARM IMPLEMENTS
PEDESTRIANS
NON-MOTORIZED TRAFFIC
BUCKLE UP!

R5-1100
48 X 54

27

STA. 3+00 R, RAMP F

M3-2A
30 X 15
M1-1
45 X 36

EAST EAST
290 20

M3-2
30 X 15
M1-4
36 X 36

28

STA. 5+00 R, RAMP F

ONE WAY →

R6-1R
36 X 12

29

STA. 386+20 L, EB

H
↑

D9-2
24 X 24

M6-3A
21 X 15

30

STA. 385+00 R, EB

WRONG
WAY

R5-1a
36 X 24

31

STA. 388+50 L, WB
STA. 388+50 R, WB
STA. 5+00 L, RAMP E
STA. 5+00 R, RAMP E

DO NOT
ENTER

R5-1
36 X 36

32

STA. 384+50 R, EB
STA. 385+50 R, WB
STA. 4+00 L, RAMP E
STA. 4+00 R, RAMP E
STA. 387+00 R, WB
STA. 387+00 L, WB

H
←

D9-2
24 X 24

M6-1LA
21 X 15

33

STA. 386+00 L, WB

ONLY ONLY ONLY

R3-8b
48 X 30

35

STA. 388+50 R, WB
STA. 388+50 L, WB

STOP

R1-1
30 X 30

36

LARCH AVE.
FRONTAGE RD.

M4-5
24 X 12
M1-4
24 X 24
D1-1C
24 X 12
M6-3
21 X 15

TO
20
Lake St.
↑

37

STA. 386+50 R, WB

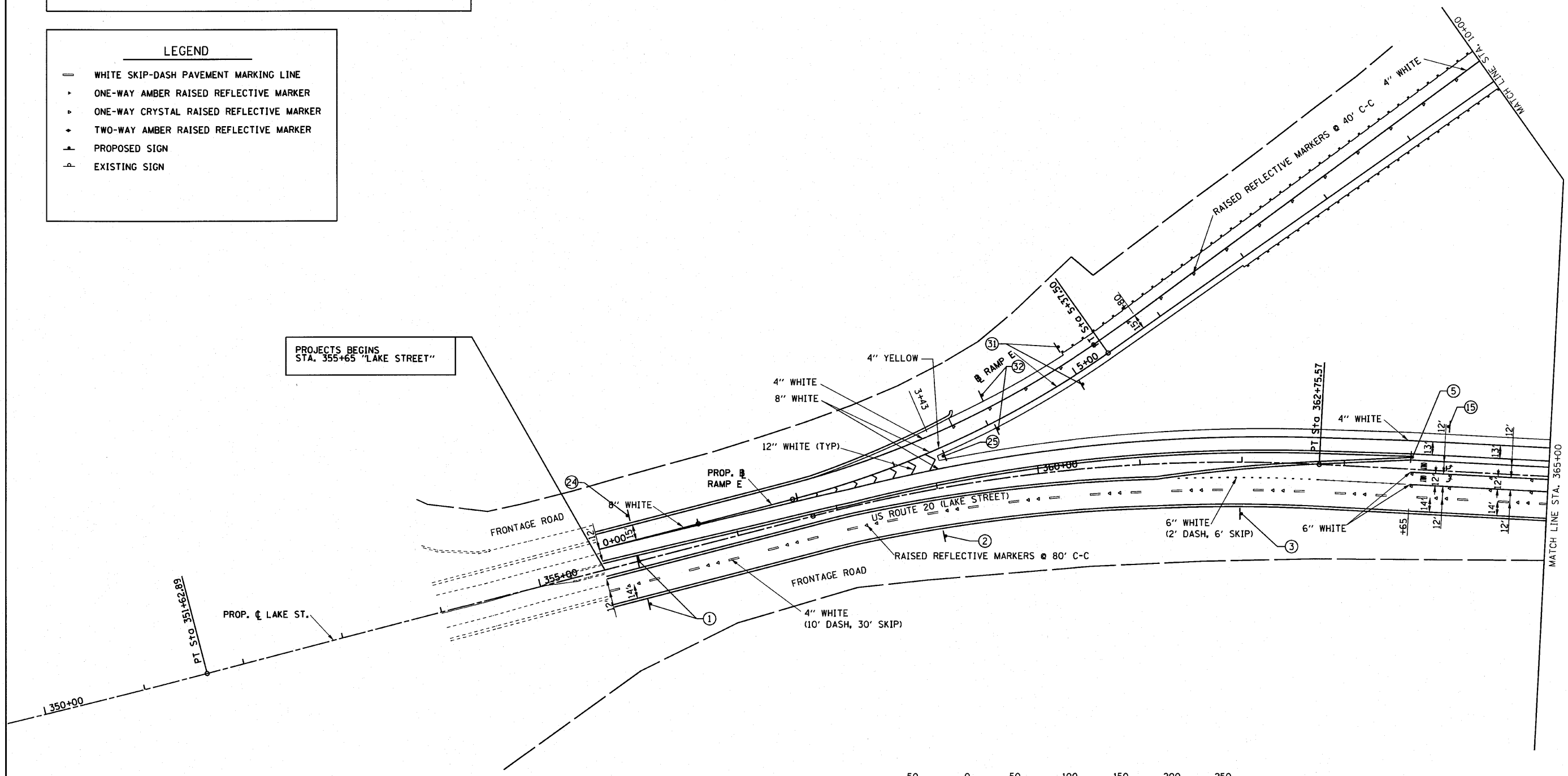
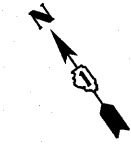
FILE NAME = prop.sign.detail.dgn	USER NAME = Matt Rempfer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) PROPOSED SIGNING DETAILS			F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
prop.sign.detail.dgn		DRAWN - PRH	REVISED -		3537	(4Y & 22-3R-2)	DUPAGE	284	179			
PLOT SCALE = 1"=50'		CHECKED - SRG	REVISED -		CONTRACT NO. 62093							
PLOT DATE = 6/18/2010		DATE - 1/18/10	REVISED -		SCALE: N.T.S.	SHEET NO. 179 OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

SIGN NOTES

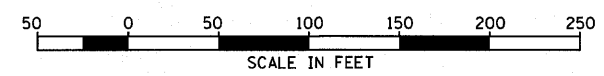
- 1) ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 2) ALL NEW SIGNS ARE TO BE MOUNTED ON NEW SUPPORTS UNTIL COMPLETION OF DESIGN OF NEW SIGNALS AND LIGHTING.

LEGEND

- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ▷ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◄ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ▲ PROPOSED SIGN
- ◌ EXISTING SIGN



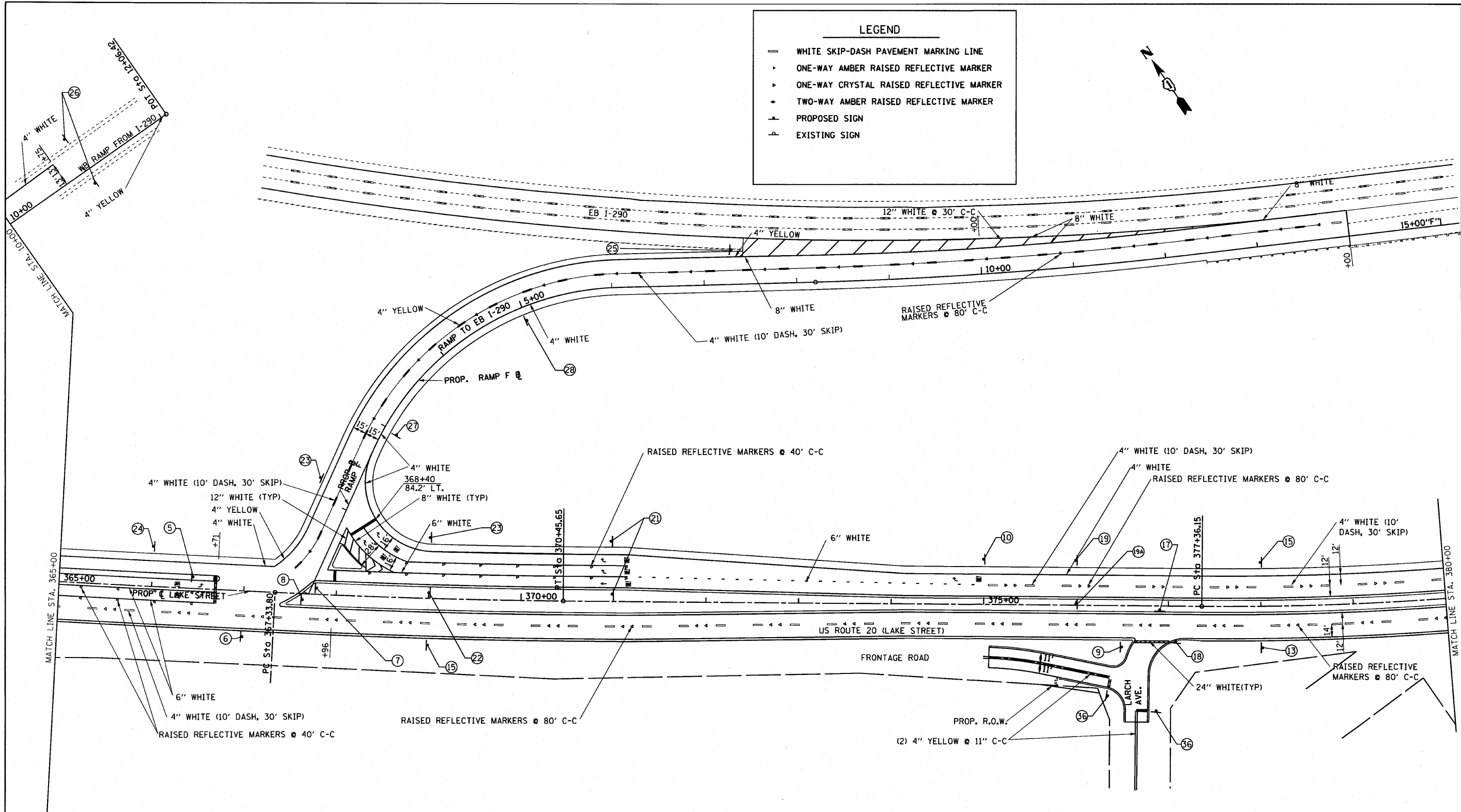
PROJECTS BEGINS
STA. 355+65 "LAKE STREET"



FILE NAME = signing-plan_prop.dgn	USER NAME = mremfer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) & RAMP "E" PROPOSED SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL	PLOT SCALE = 1"=50'	DRAWN - BLV	REVISED -			3537	(4Y & 22-3R-2)	DUPAGE	284	180	
	PLOT DATE = 6/8/2010	CHECKED - SRG	REVISED -			SCALE: 1"=50' SHEET NO. 180 OF SHEETS STA. 355+65 TO STA. 365+00		CONTRACT NO. 62093			
		DATE - 1/18/10	REVISED -			ILLINOIS FED. AID PROJECT					

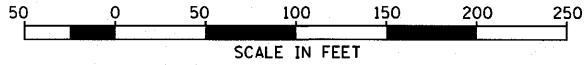
LEGEND

- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ▷ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◀ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ▲ PROPOSED SIGN
- ◻ EXISTING SIGN



SIGN NOTES

- 1) ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 2) ALL NEW SIGNS ARE TO BE MOUNTED ON NEW SUPPORTS UNTIL COMPLETION OF DESIGN OF NEW SIGNALS AND LIGHTING.



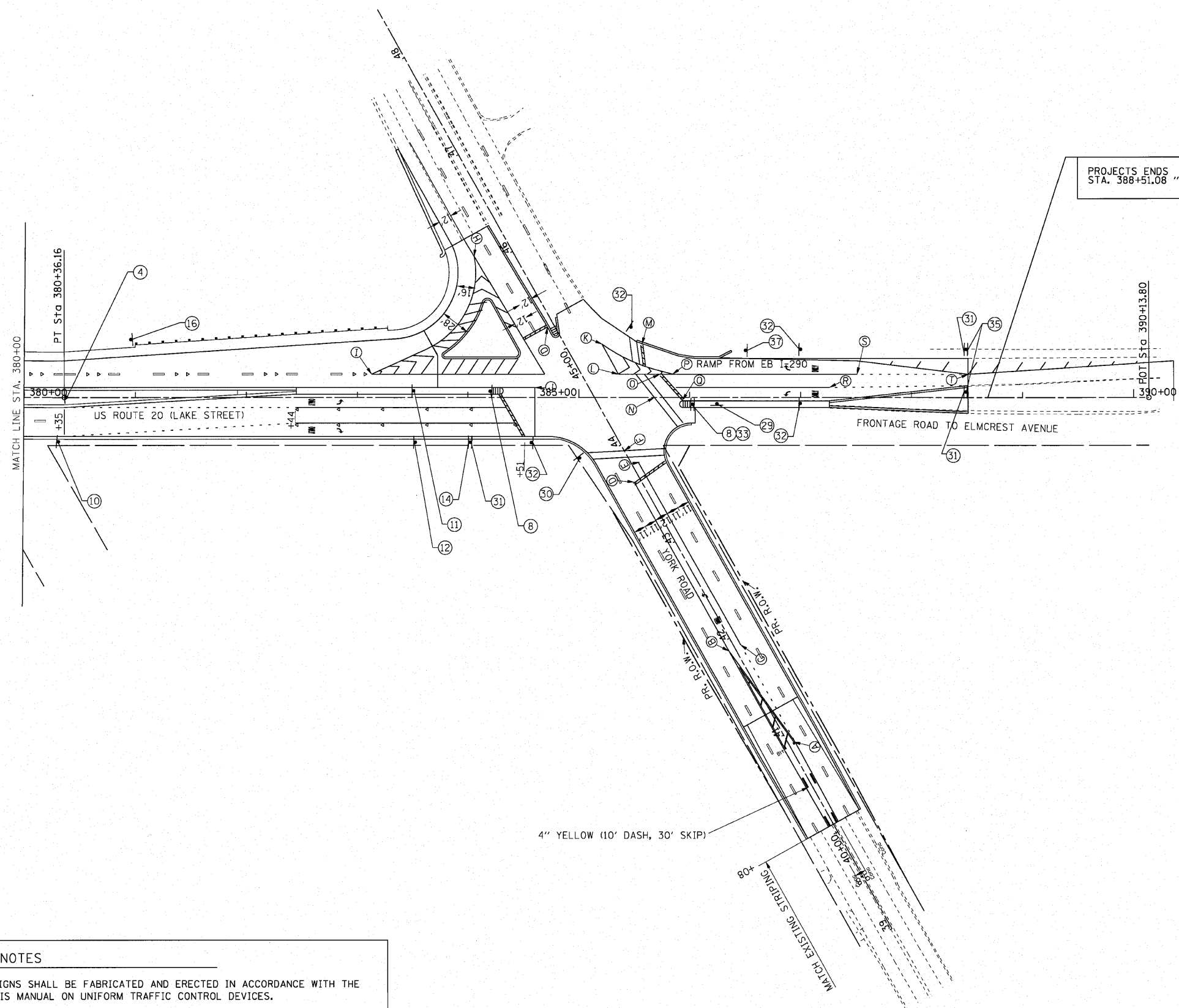
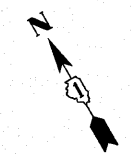
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PLOT SCALE = 1"=50'		CHECKED - SRG	REVISED -
PLOT DATE = 6/8/2010		DATE - 1/18/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 20 (LAKE STREET)
PROPOSED SIGNING PLAN**

SCALE: 1"=50' SHEET NO. 181 OF SHEETS STA. 365+00 TO STA. 380+00

F.A.J.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3)R-2	DUPAGE	284	181
CONTRACT NO. 62093				
ILLINOIS FED. AID PROJECT				



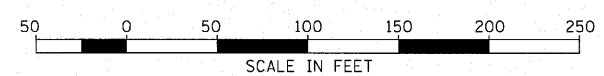
- Ⓐ 40+90.2, 4.8' RT.
- Ⓑ 41+90.2, 6.0' LT.
- Ⓒ 41+90.0, 6.0' RT.
- Ⓓ 43+65.0, 6.0' LT.
- Ⓔ 43+78.9, 6.0' RT.
- Ⓕ 43+94.0, Ⓞ
- Ⓖ 45+25.0, 6.0' LT.
- Ⓗ 46+13, 32.5' LT.
- Ⓘ 383+12.9, 21.0' LT.
- Ⓝ 384+60.4, 8.9' LT.
- Ⓚ 385+21.0, 48.1' LT.
- Ⓛ 385+35.8, 21.0' LT.
- Ⓜ 385+57.0, 47.9' LT.
- Ⓝ 385+68.2, Ⓞ
- Ⓟ 385+72.8, 21.0' LT.
- Ⓟ 385+84.8, 21.0' LT.
- Ⓠ 385+94.3, 2.7' LT.
- Ⓡ 387+26.1, 9.0' RT.
- Ⓢ 387+51.1, 21.0' LT.
- Ⓣ 388+51.1, 21.0' LT.

LEGEND

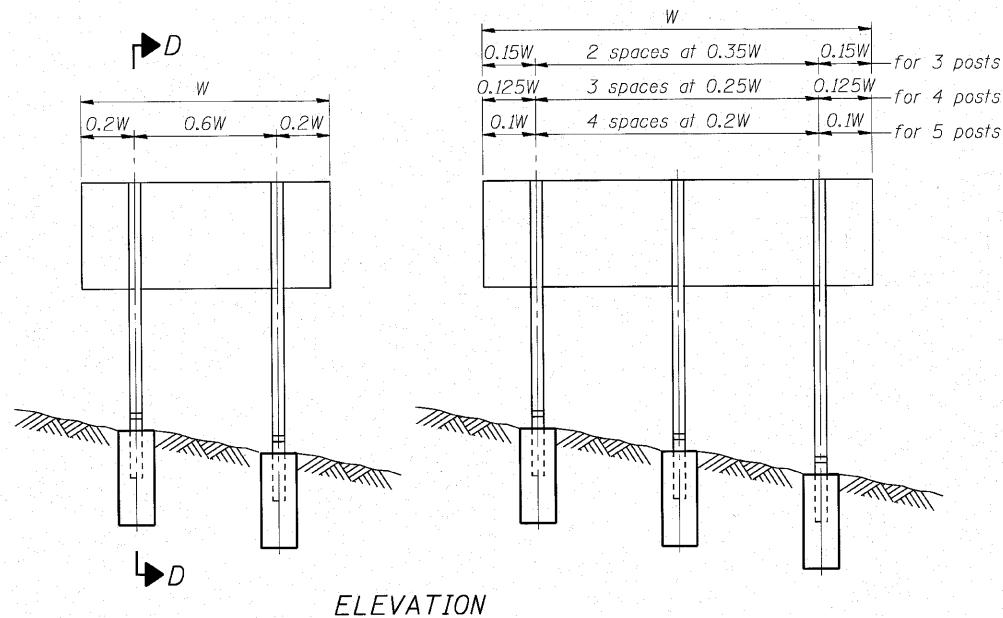
- WHITE SKIP-DASH PAVEMENT MARKING LINE
- ▶ ONE-WAY AMBER RAISED REFLECTIVE MARKER
- ▷ ONE-WAY CRYSTAL RAISED REFLECTIVE MARKER
- ◆ TWO-WAY AMBER RAISED REFLECTIVE MARKER
- ▲ PROPOSED SIGN
- ◀ EXISTING SIGN

SIGN NOTES

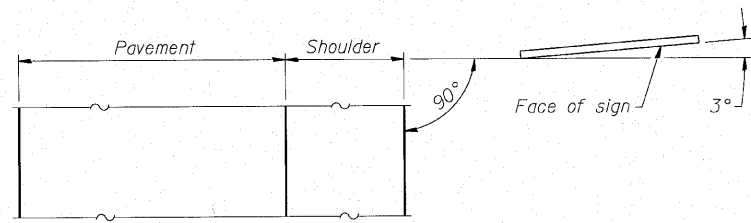
- 1) ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 2) ALL NEW SIGNS ARE TO BE MOUNTED ON NEW SUPPORTS UNTIL COMPLETION OF DESIGN OF NEW SIGNALS AND LIGHTING.



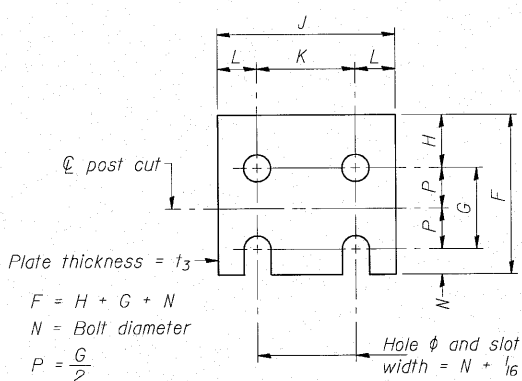
FILE NAME = signing_plan_prop.dgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) & YORK ROAD PROPOSED SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=50'	DRAWN - BLV	REVISED -			3537	(4Y & 22-31R-2)	DUPAGE	284	182
PLOT DATE = 1/13/2010	CHECKED - SRG	DATE - 1/18/10	REVISED -	SCALE: SHEET NO. 182 OF SHEETS STA. 380+00 TO STA. 390+00		ILLINOIS FED. AID PROJECT CONTRACT NO. 62093				



ELEVATION



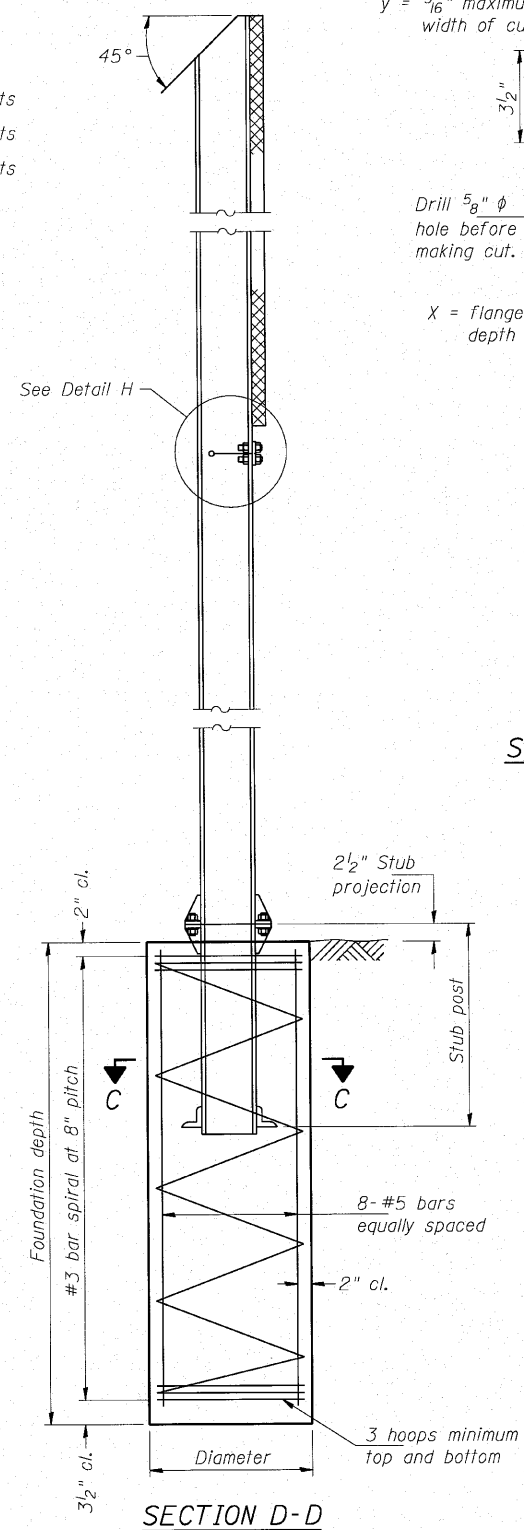
LOCATION SKETCH



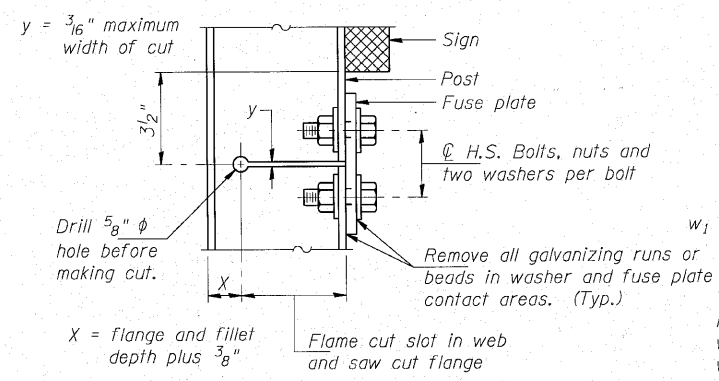
FUSE PLATE DETAIL

(Install with notches down.)

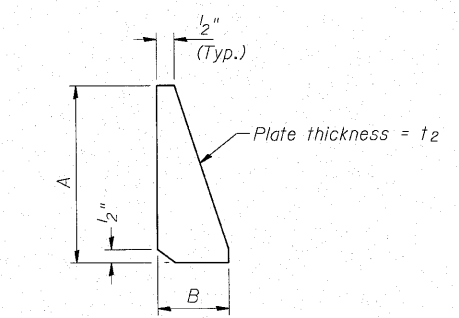
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"



SECTION D-D

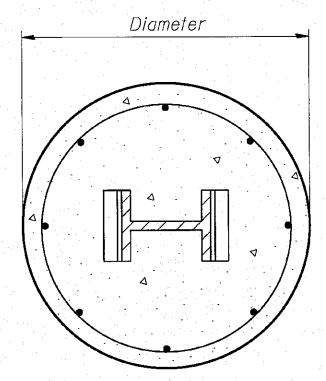


DETAIL H



STIFFENER PLATE DETAIL

(See table for dimensions.)



SECTION C-C

GENERAL NOTES

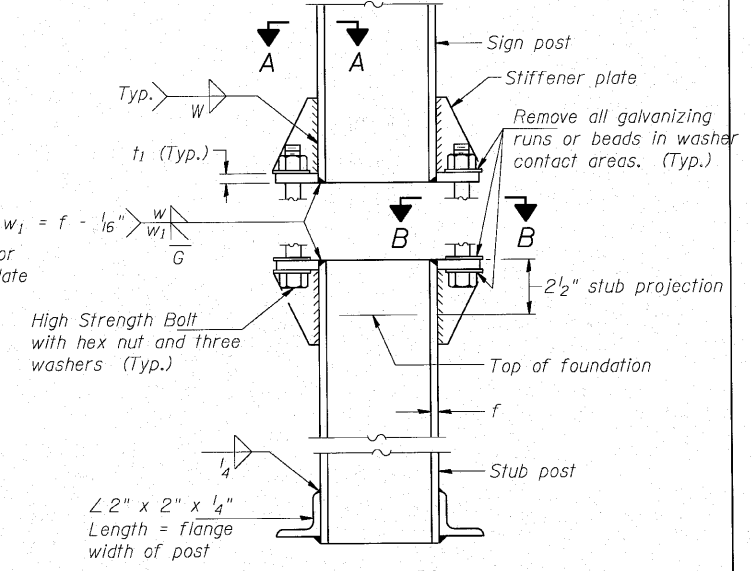
Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(f)(3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

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

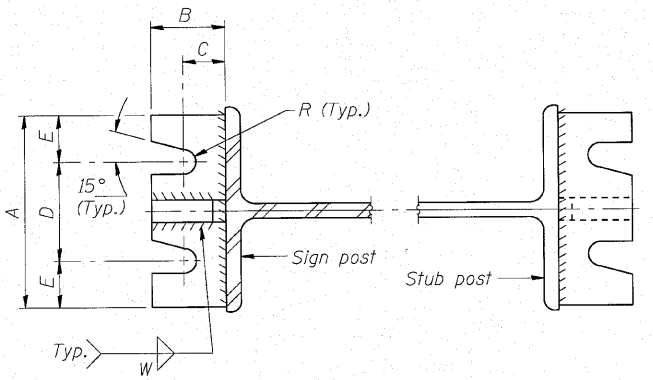
DESIGN STRESSES:
 Structural steel - 20,000 p.s.i.
 Reinforcing steel - 20,000 p.s.i.
 Concrete - 1,400 p.s.i.
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6" (Minimum) of the stub post 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.

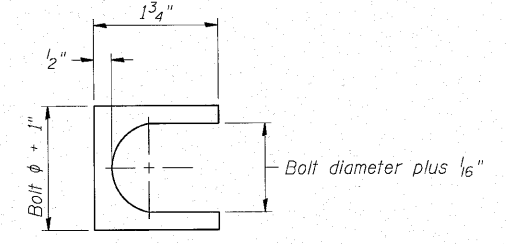


ELEVATION
SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

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

BAW-A-1

11/1/2002

FILE NAME = Signng Mounts.dgn	USER NAME = IDOT\eng	DESIGNED -	REVISED -
Signng Mounts.dgn		DRAWN - BLV	REVISED -
	PLOT SCALE = 1"=50'	CHECKED - SRG	REVISED -
	PLOT DATE = 1/13/2010	DATE - 1/18/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20 (LAKE STREET)
BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES

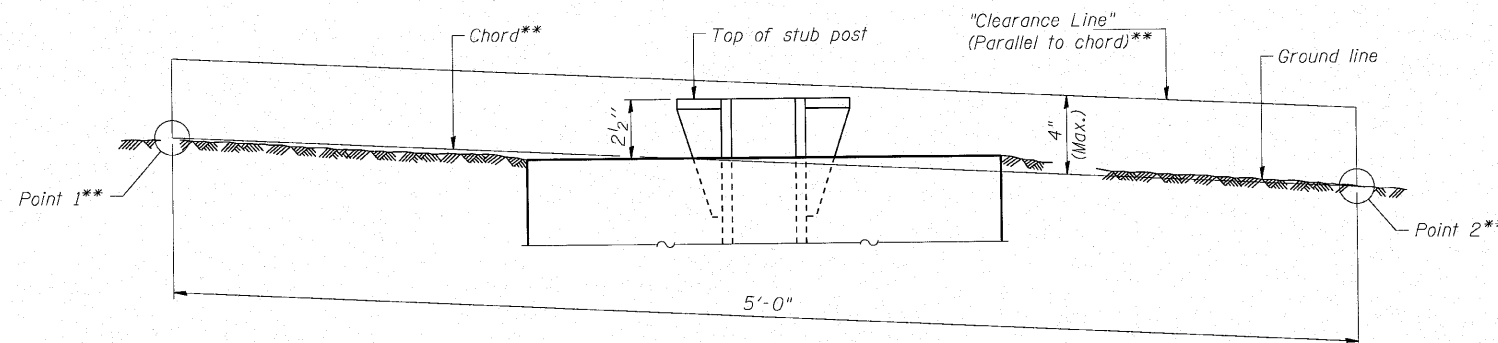
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3R-2	DUPAGE	284	183
CONTRACT NO. 62093			ILLINOIS FED. AID PROJECT	

(Sheet 1 of 2)

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 (cu. yds.) 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 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 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 3/2"	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 3/2"	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"	1 1/2"	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"	1 1/2"	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 Depth												
	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"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	---	---	---	---	---	---	---
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2"	7/8" x 2"	---	---	---
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"
W10x22	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W10x26	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"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1 1/8" x 3"
W12x26	---	---	---	---	---	5/8" x 2 1/4"	---	---	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W14x30	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W14x38	---	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	---	---	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	1" x 2 1/2"	1" x 2 3/4"



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.

NUMBER	REVISION	DATE

BAW-A-2 11/1/2002

FILE NAME = Signing Mounts.dgn
Signing Mounts.dgn

USER NAME = IDOT(feng)
PLOT SCALE = 1"=50'
PLOT DATE = 1/13/2010

DESIGNED -
DRAWN - BLV
CHECKED - SRG
DATE - 1/18/10

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

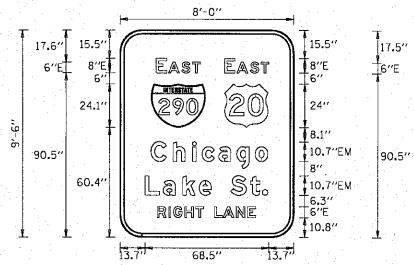
U.S. ROUTE 20 (LAKE STREET)
BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES

SCALE: N.T.S. SHEET NO. 184 OF SHEETS STA. TO STA.

F.A.U. RTE. 3537 SECTION 4Y & 22-3R-2 COUNTY DUPAGE TOTAL SHEETS 284 SHEET NO. 184 CONTRACT NO. 62093 ILLINOIS FED. AID PROJECT

(Sheet 2 of 2)

SIGN DETAIL
1:40



SIGN NUMBER	name
WIDTH x HGT.	8'-0" x 9'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: Pure White

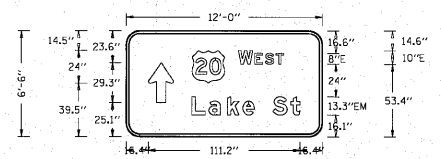
SYMBOL	X	Y	WD	HT
M1.4	57.8	60.5	24	24
M1.1	17.1	60.4	30	24.1

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	A	S	T								E8,E6
57.8	64.6	71.8	77.9								24.5
E	A	S	T								E8,E6
19.8	26.6	33.9	39.9								24.5
C	h	i	c	a	g	o					EM10.7/8
17.1	29.1	39.9	45.3	54.5	64.6	74.7					64.7
L	a	k	e	S	t						EM10.7/8
13.7	23.7	34.6	43.7	50.5	61.2	71.9	78.7				68
R	I	G	H	T	L	A	N	E			E6
20.5	26.8	29.4	35.7	41.8	46.1	52.1	57	64.2	70.5		54.4

19 STATION 376+00 RT, WB

SIGN DETAIL
1:50



SIGN NUMBER	name
WIDTH x HGT.	12'-0" x 6'-6"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: Pure White

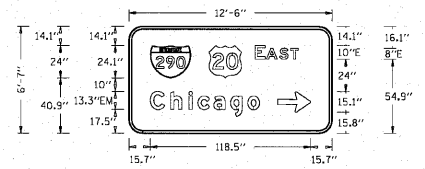
SYMBOL	X	Y	WD	HT
M1.4	48.3	39.5	24.1	24
ARLP	16.4	25.1	18.3	29.3

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
W	E	S	T								E10,E8
82.3	94.3	101.8	109.9								33.4
L	a	k	e	S	t						EM13.3/10
48.3	60.8	74.3	85.7	94.2	107.5	120.9					79.3

22 STATION 369+00 LT, WB

SIGN DETAIL
1:50



SIGN NUMBER	name
WIDTH x HGT.	12'-6" x 6'-7"
BORDER WIDTH	2"
CORNER RADIUS	10"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: Pure White

SYMBOL	X	Y	WD	HT
M1.4	55.1	40.9	24.1	24
M1.1	15.7	40.9	30	24.1
ARMED	109.9	15.8	24.3	15.1

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	A	S	T								E10,E8
93.2	101.5	111.2	119.2								31.9
C	h	i	c	a	g	o					EM13.3/10
15.7	30.7	44.3	51	62.6	75.1	87.7					80.8

23 STATION 369+00 RT, WB

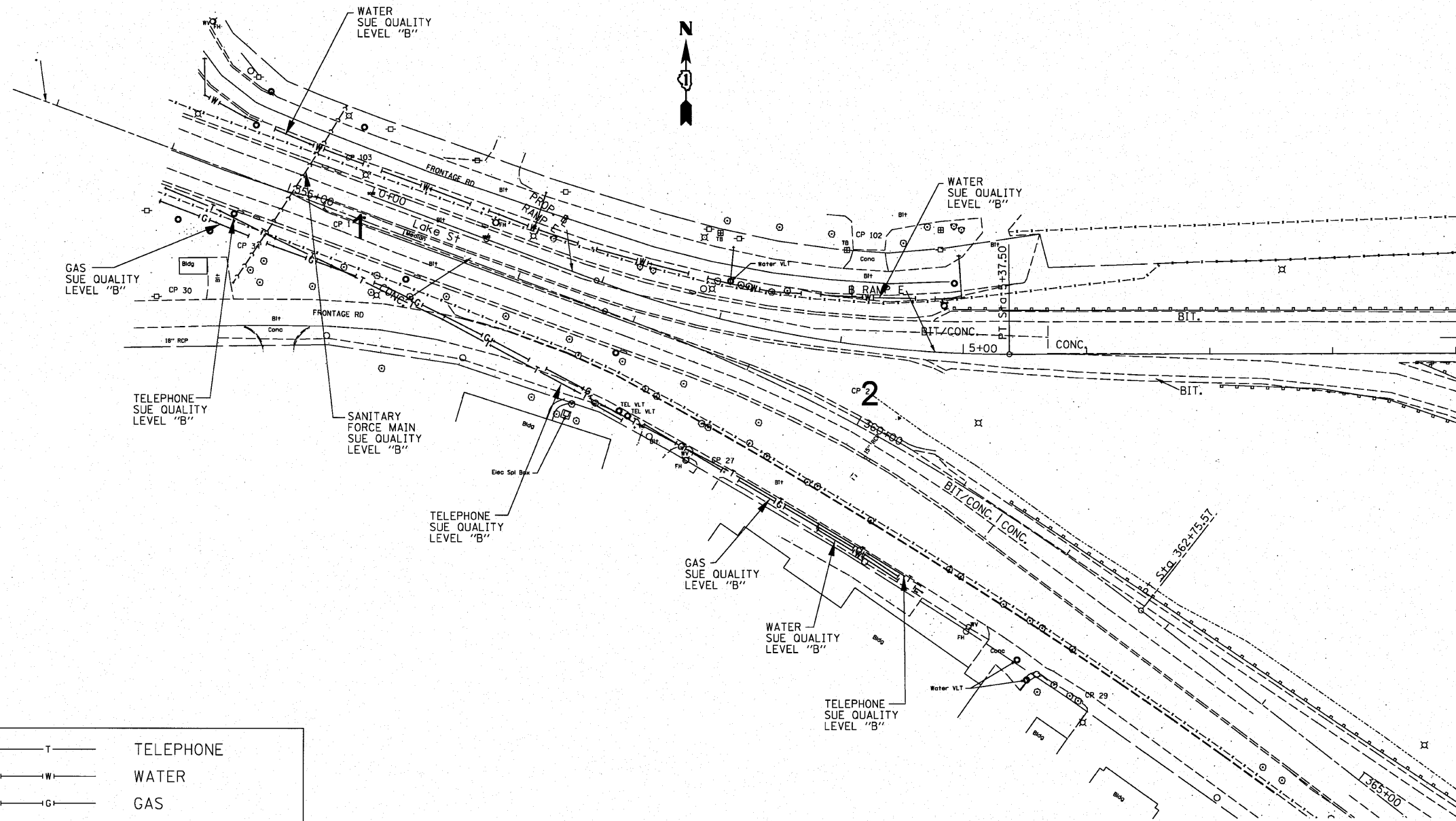
FILE NAME = 166_PanelSign.dgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -
166_PanelSign.dgn		DRAWN - BLV	REVISED -
		CHECKED - SRG	REVISED -
		DATE - 1/13/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 20 (LAKE STREET)
PANEL SIGN DETAILS

SCALE: N.T.S. SHEET NO. 186 OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3R-2)	DUPAGE	284	186
CONTRACT NO. 62093				
ILLINOIS FED. AID PROJECT				

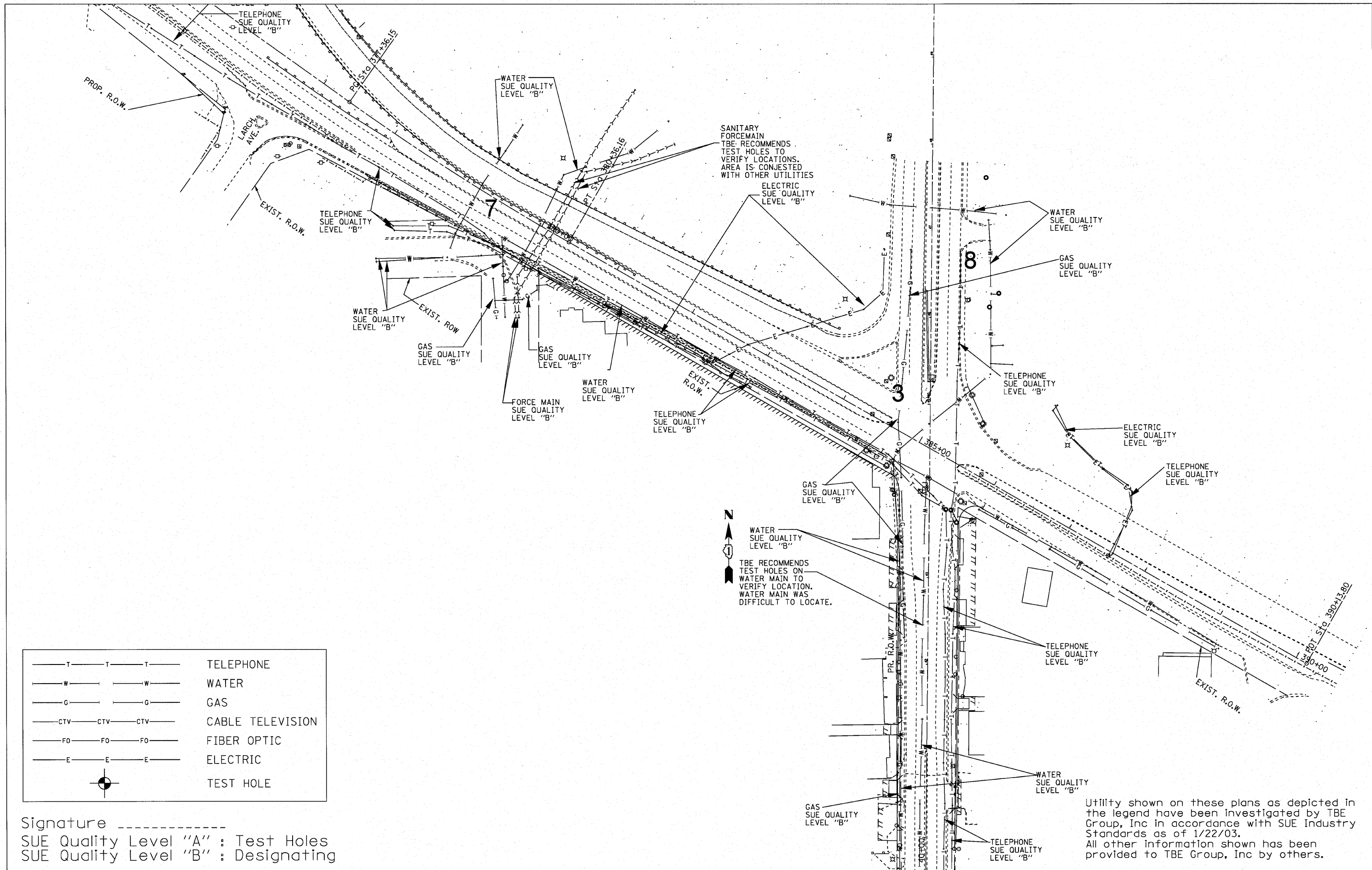


— T — T — T —	TELEPHONE
— W — W — W —	WATER
— G — G — G —	GAS
— CTV — CTV — CTV —	CABLE TELEVISION
— FO — FO — FO —	FIBER OPTIC
— E — E — E —	ELECTRIC
⊙	TEST HOLE

Signature -----
 SUE Quality Level "A" : Test Holes
 SUE Quality Level "B" : Designating

Utility shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards as of 1/22/03. All other information shown has been provided to TBE Group, Inc by others.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - DRAWN - BLV	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 20 AT YORK ROAD/290 AND WALNUT STREET TO YORK ROAD SUBSURFACE UTILITY ENGINEERING	F.A.U. RTE. 3537	SECTION (4Y & 22-31R-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 188		
	PLOT SCALE = *SCALE*	CHECKED - SRG	REVISED -			SCALE: 1"=50'	SHEET NO. 188 OF SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 62093		
	PLOT DATE = *DATE*	DATE - 1/18/10	REVISED -			FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT			



— T — T — T —	TELEPHONE
— W — — W —	WATER
— G — — G —	GAS
— CTV — CTV — CTV —	CABLE TELEVISION
— FO — FO — FO —	FIBER OPTIC
— E — — E —	ELECTRIC
⊙	TEST HOLE

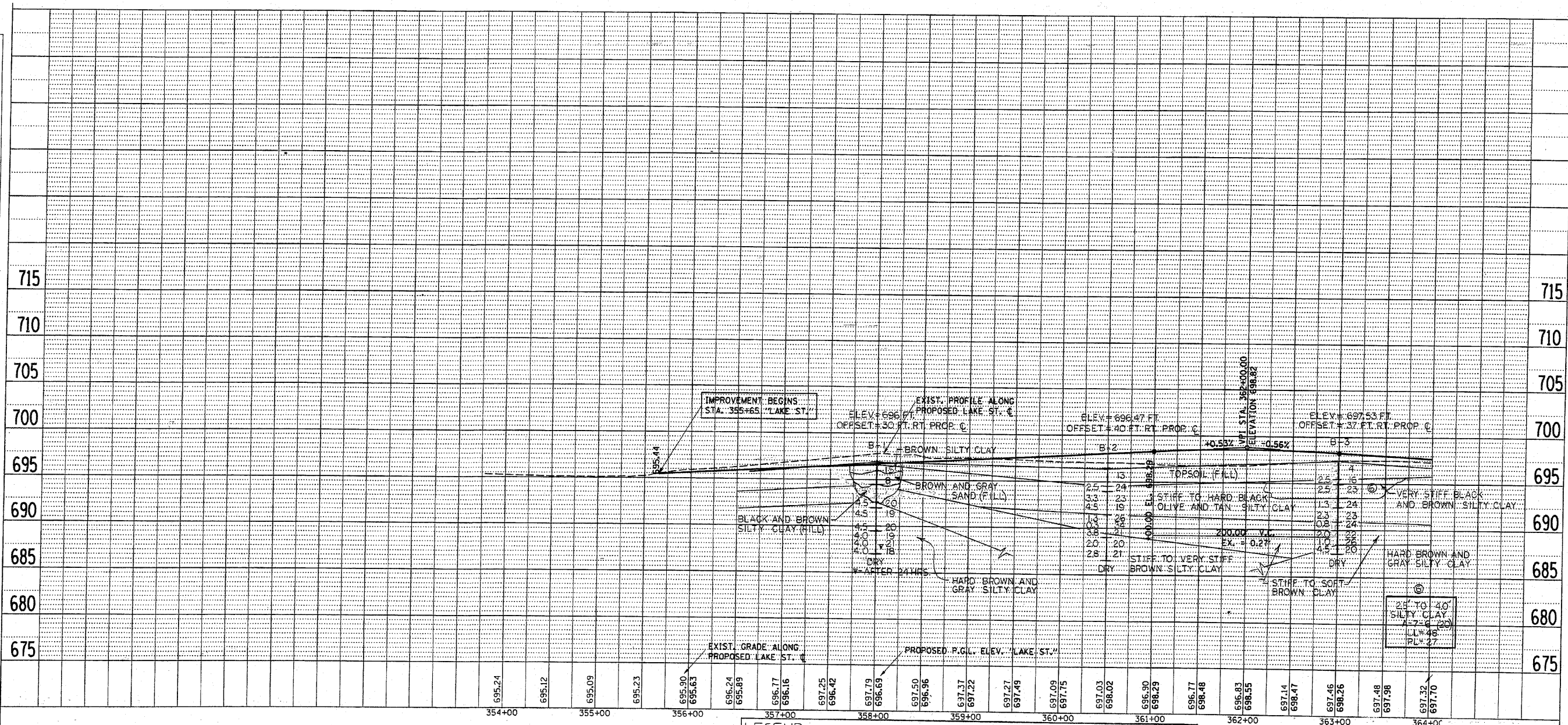
Signature _____
 SUE Quality Level "A" : Test Holes
 SUE Quality Level "B" : Designating

Utility shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards as of 1/22/03. All other information shown has been provided to TBE Group, Inc by others.

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 20 AT YORK ROAD-290 AND WALNUT STREET TO YORK ROAD SUBSURFACE UTILITY ENGINEERING	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN - BLV	REVISED -			3537	(4Y & 22-3JR-2)	DUPAGE	284	189	
PLOT SCALE = *SCALE*		CHECKED - SRG	REVISED -			CONTRACT NO. 62093					
PLOT DATE = *DATE*		DATE - 1/18/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: 1"=50'		SHEET NO. 189 OF SHEETS		STA. N/A TO STA. N/A		

PROFILE SHEET
 DATE: _____ BY: _____
 CHECKED BY: _____
 DATE: _____
 NO. _____
 FILE NAME: _____

DATE: _____ BY: _____
 CHECKED BY: _____
 DATE: _____
 NO. _____
 FILE NAME: _____



FILE NAME = Soil Profile 191-193.dgn

USER NAME = IDOT(ang)	DESIGNED -	REVISED -
PLOT SCALE = 1"=50'	DRAWN - BLV	REVISED -
PLOT DATE = 1/15/2010	CHECKED - SRG	REVISED -
	DATE - 1/18/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

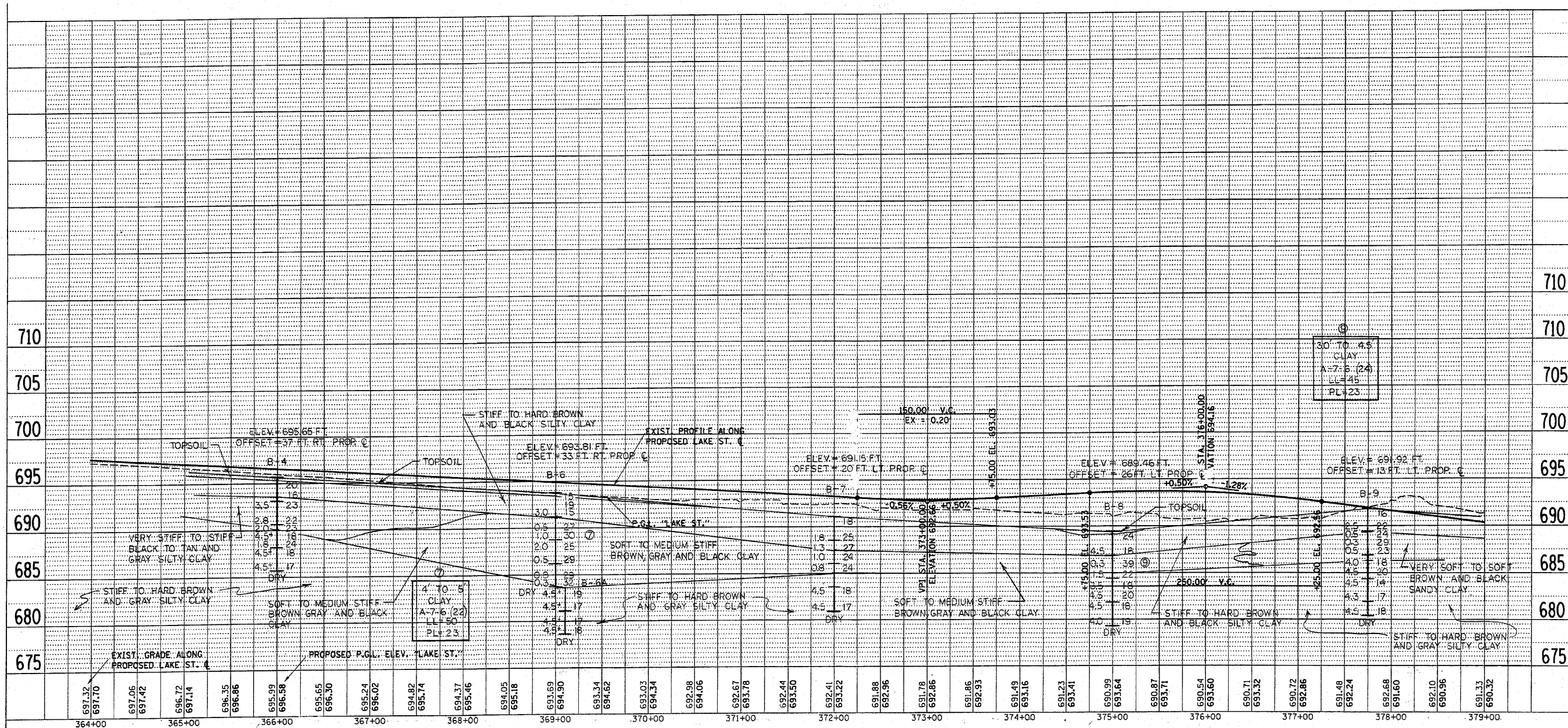
**U.S. ROUTE 20 (LAKE STREET)
 SOIL PROFILES**

SCALE: NONE SHEET NO. 191 OF SHEETS STA. 355+65 TO STA. 364+00

F.A.U. RTE. 3537	SECTION 14Y&22-31R-2	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 191
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62093	

DATE: _____ BY: _____
 PROFILE PLOTTED: _____
 CHECKED: _____
 NOTE BOOK NO.: _____
 CAD FILE NAME: _____

DATE: _____ BY: _____
 PROFILE PLOTTED: _____
 CHECKED: _____
 NOTE BOOK NO.: _____
 STRUCTURE NOTATION: _____



FILE NAME = Soil Profile 191-193.dgn

USER NAME = IDOT(ang)
 DESIGNED -
 DRAWN - BLV
 CHECKED - SRG
 DATE - 1/15/2010

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. ROUTE 20 (LAKE STREET)
 SOIL PROFILES**

SCALE: NONE SHEET NO. 192 OF SHEETS STA. 364+00 TO STA. 379+00

F.A.U. RTE. 3537	SECTION (4Y&22-3R-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 192
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 62093		

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 1
 Date 1/28/03

ROUTE FAU 3537 DESCRIPTION US Route 20 (Lake Street) LOGGED BY Stewart Ward
 SECTION 4Y & 22-3IR-2 LOCATION Walnut St. to York Rd., SEC. 35, TWP. 40 N, RNG. 11 E

COUNTY DuPage DRILLING METHOD Mobile-880.3.25 ID HSA HAMMER TYPE

STRUCT. NO. _____ D B U M Surface Water Elev. _____ ft
 Station P L C O I Stream Bed Elev. _____ ft
 B O R I N G N O. B-7
 Station 372.00
 Offset 20.00 ft of Prop. US20 Centerline
 Ground Surface Elev. 881.15 ft (R) (W) (M) (N) (H) (A) (S) (T) First Encounter _____ ft
 Upon Completion _____ ft
 After Hrs. _____

Soil Brown and Black SILTY CLAY, Trace Gravel

1.8	25	
1.3	27	
1.0	24	
0.8	24	
1.3	21	
3.3	21	
4.5	18	
4.5	18	
4.5	17	

Note: Frost encountered to a depth of about 1 foot below grade.
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blade, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-89)

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 1
 Date 1/28/03

ROUTE FAU 3537 DESCRIPTION US Route 20 (Lake Street) LOGGED BY Stewart Ward
 SECTION 4Y & 22-3IR-2 LOCATION Walnut St. to York Rd., SEC. 35, TWP. 40 N, RNG. 11 E

COUNTY DuPage DRILLING METHOD Mobile-880.3.25 ID HSA HAMMER TYPE

STRUCT. NO. _____ D B U M Surface Water Elev. _____ ft
 Station P L C O I Stream Bed Elev. _____ ft
 B O R I N G N O. B-8
 Station 372.00
 Offset 20.00 ft of Prop. US20 Centerline
 Ground Surface Elev. 882.05 ft (R) (W) (M) (N) (H) (A) (S) (T) First Encounter _____ ft
 Upon Completion _____ ft
 After Hrs. _____

1.5 ft. Yellow Hard Brown and Black SILTY CLAY

4.5	18	
0.3	30	
0.3	34	
1.5	22	
3.5	18	
4.5	20	
4.5	18	
4.3	20	
4.0	19	

Note: Frost encountered to a depth of about 1.5 feet below grade.
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blade, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-89)

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 1
 Date 1/28/03

ROUTE FAU 3537 DESCRIPTION US Route 20 (Lake Street) LOGGED BY Stewart Ward
 SECTION 4Y & 22-3IR-2 LOCATION Walnut St. to York Rd., SEC. 35, TWP. 40 N, RNG. 11 E

COUNTY DuPage DRILLING METHOD Mobile-880.3.25 ID HSA HAMMER TYPE

STRUCT. NO. _____ D B U M Surface Water Elev. _____ ft
 Station P L C O I Stream Bed Elev. _____ ft
 B O R I N G N O. B-9
 Station 372.00
 Offset 13.00 ft of Prop. US20 Centerline
 Ground Surface Elev. 881.82 ft (R) (W) (M) (N) (H) (A) (S) (T) First Encounter _____ ft
 Upon Completion _____ ft
 After Hrs. _____

Brown and Black to Brown SILTY CLAY, Trace Organics

1.5	18	
2.5	22	
0.5	24	
0.3	28	
0.0	23	
4.0	18	
4.5	20	
4.5	14	
4.5	17	
4.3	17	
4.5	18	

Note: Frost encountered to a depth of about 1.5 feet below grade.
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blade, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-89)

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 1
 Date 1/27/03

ROUTE FAU 3537 DESCRIPTION US Route 20 (Lake Street) LOGGED BY Stewart Ward
 SECTION 4Y & 22-3IR-2 LOCATION Walnut St. to York Rd., SEC. 35, TWP. 40 N, RNG. 11 E

COUNTY DuPage DRILLING METHOD Mobile-880.3.25 ID HSA HAMMER TYPE

STRUCT. NO. _____ D B U M Surface Water Elev. _____ ft
 Station P L C O I Stream Bed Elev. _____ ft
 B O R I N G N O. B-10
 Station 410.00
 Offset 6.00 ft of Prop. Ramp F Centerline
 Ground Surface Elev. 883.02 ft (R) (W) (M) (N) (H) (A) (S) (T) First Encounter _____ ft
 Upon Completion _____ ft
 After Hrs. _____

TOPSOIL (FILL) W/SP Concrete Debris (FILL)

12	22	
3.8	24	
1.8	26	
1.5	25	
1.0	30	
4.3	20	
4.3	18	
4.5	18	

Note: Frost encountered to a depth of about 2.0 feet below grade.
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blade, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-89)

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 1
 Date 1/27/03

ROUTE FAU 3537 DESCRIPTION US Route 20 (Lake Street) LOGGED BY Stewart Ward
 SECTION 4Y & 22-3IR-2 LOCATION Walnut St. to York Rd., SEC. 35, TWP. 40 N, RNG. 11 E

COUNTY DuPage DRILLING METHOD Mobile-880.3.25 ID HSA HAMMER TYPE

STRUCT. NO. _____ D B U M Surface Water Elev. _____ ft
 Station P L C O I Stream Bed Elev. _____ ft
 B O R I N G N O. B-11
 Station 830.00
 Offset 2.00 ft of Prop. Ramp F Centerline
 Ground Surface Elev. 882.42 ft (R) (W) (M) (N) (H) (A) (S) (T) First Encounter _____ ft
 Upon Completion _____ ft
 After Hrs. _____

Gray SILTY W/SP Gravel

6	18	
2.0	20	
2.5	22	
4.5	18	
4.5	18	
4.5	18	
4.5	17	

Note: Frost encountered to a depth of about 2.0 feet below grade.
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blade, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-89)

Illinois Department of Transportation
SOIL BORING LOG Page 1 of 1
 Date 1/27/03

ROUTE FAU 3537 DESCRIPTION US Route 20 (Lake Street) LOGGED BY Stewart Ward
 SECTION 4Y & 22-3IR-2 LOCATION Walnut St. to York Rd., SEC. 35, TWP. 40 N, RNG. 11 E

COUNTY DuPage DRILLING METHOD Mobile-880.3.25 ID HSA HAMMER TYPE

STRUCT. NO. _____ D B U M Surface Water Elev. _____ ft
 Station P L C O I Stream Bed Elev. _____ ft
 B O R I N G N O. B-12
 Station 1125.00
 Offset 6.00 ft of Prop. Ramp F Centerline
 Ground Surface Elev. 887.45 ft (R) (W) (M) (N) (H) (A) (S) (T) First Encounter _____ ft
 Upon Completion _____ ft
 After Hrs. _____

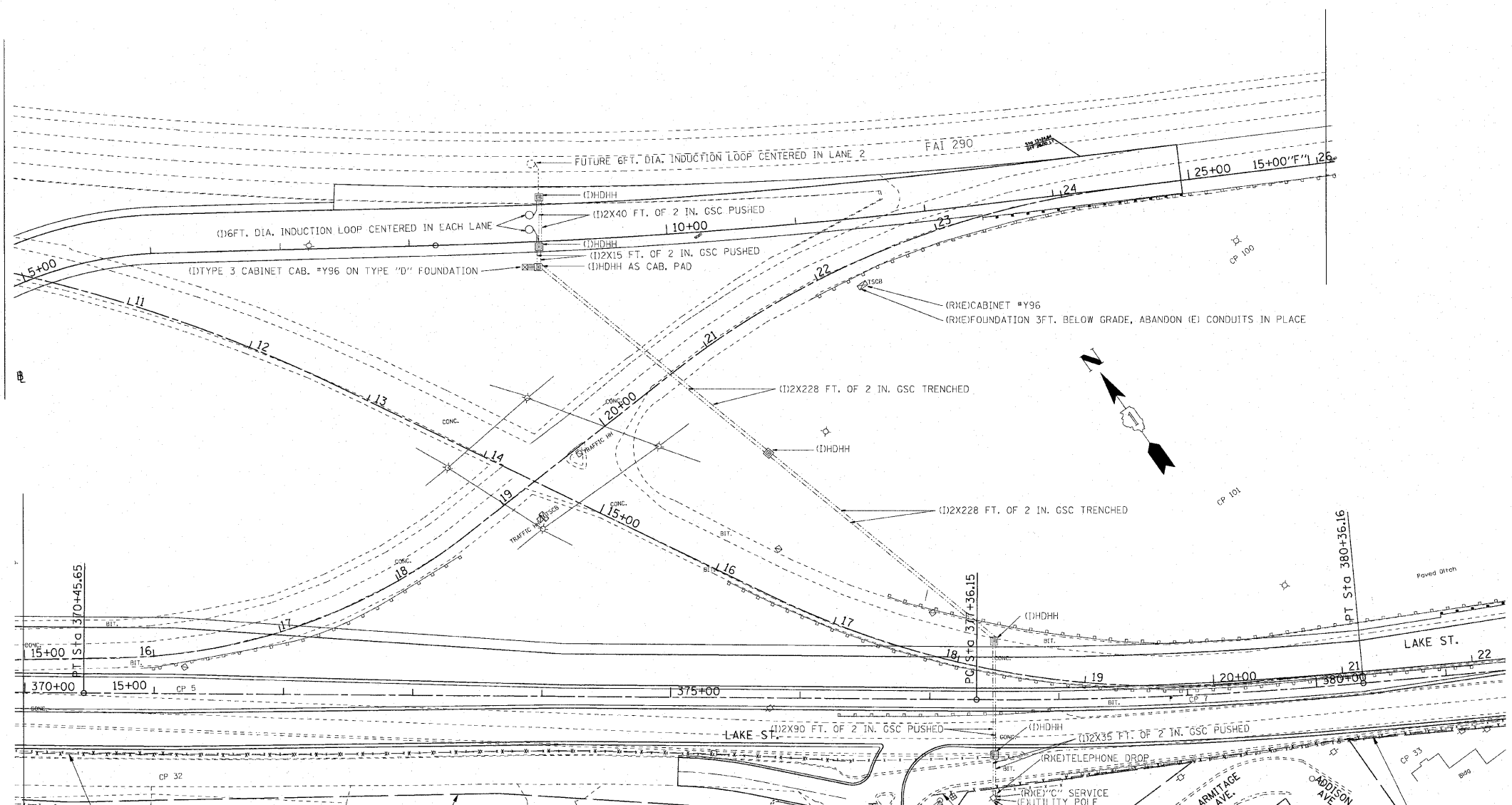
TOPSOIL (FILL)

4.5	18	
4.5	14	
4.5	13	
2.5	18	
2.8	24	
0.8	30	
1.3	26	
4.5	18	

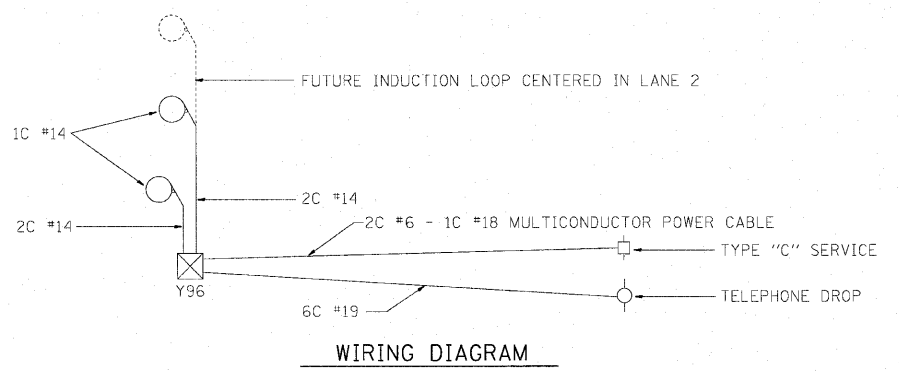
Note: Frost encountered to a depth of about 2.0 feet below grade.
 End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Blade, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-89)

FILE NAME = 2s_log.dgn	USER NAME = IDDT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. ROUTE 20 (LAKE STREET) - RAMP "F" BORING LOGS	F.A.U. RTE. 3537	SECTION 4Y&22-3IR-2	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 195
PLOT SCALE = 1"=50'	CHECKED -	REVISED -	CONTRACT NO. 62093							
PLOT DATE = 1/14/2018	DATE = 1/18/10	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
						SCALE: NONE SHEET NO. 195 OF SHEETS STA. N/A TO STA. N/A				



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



FILE NAME = YORINST.dgn	USER NAME = JDOTIeng	DESIGNED -	REVISED -
YORINST.dgn		DRAWN - BLV	REVISED -
		CHECKED - SRG	REVISED -
		DATE - 1/18/10	REVISED -

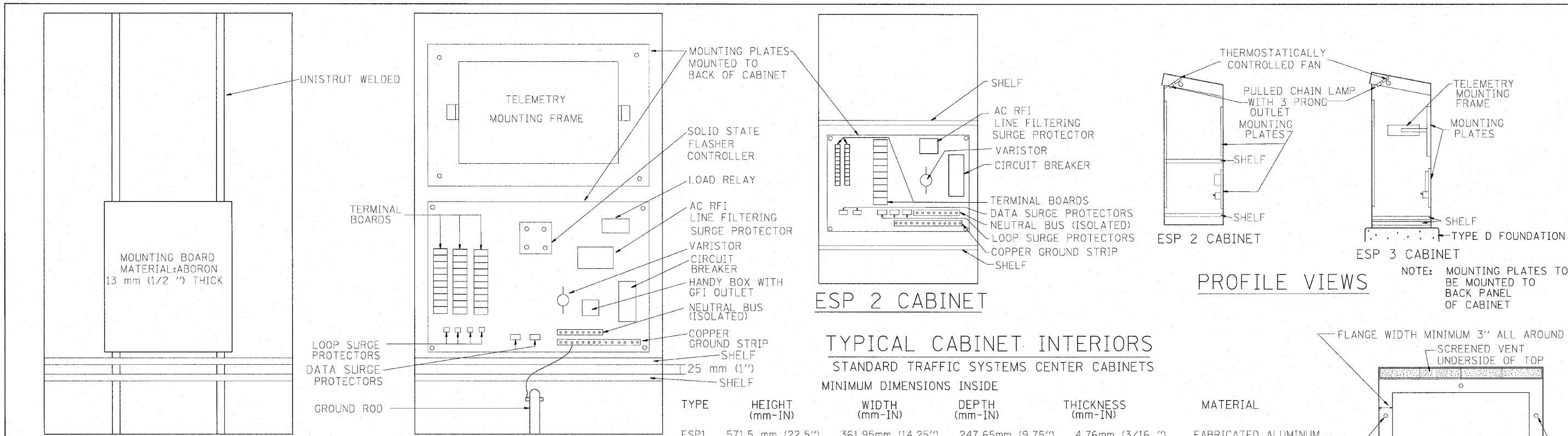
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**YORK ROAD INSTALLATION
RAMP "F"**

SCALE: 1"=50' SHEET NO. 196 OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3537	(4Y & 22-3)R-2	DUPAGE	284	196
CONTRACT NO. 62093			ILLINOIS FED. AID PROJECT	

TRAFFIC SYSTEMS CENTER



SIDE VIEW ESP 3 & 4 CABINET

ESP 3 CABINET

ESP 2 CABINET

TYPICAL CABINET INTERIORS

STANDARD TRAFFIC SYSTEMS CENTER CABINETS

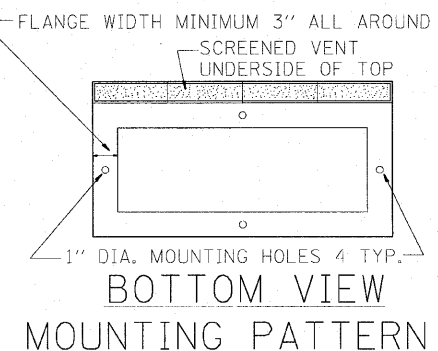
MINIMUM DIMENSIONS INSIDE

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

PROFILE VIEWS

MATERIAL

- FABRICATED ALUMINUM
- FABRICATED ALUMINUM
- FABRICATED ALUMINUM
- FABRICATED ALUMINUM



NOTES:

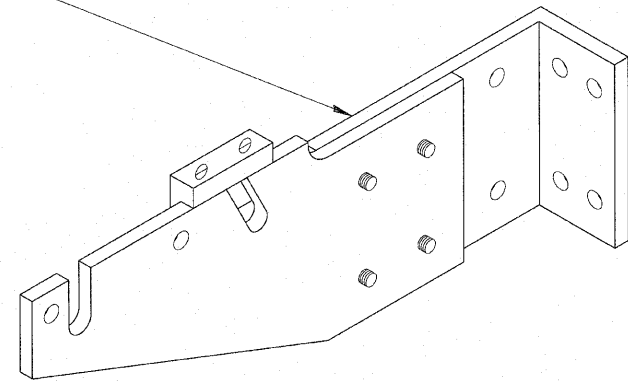
1. CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE. SIGNAL POSTS AND HEADS TO BE FEDERAL YELLOW 89-19(MAUTZ).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

- (X)
- | | |
|------------------|---------------------|
| EDENS | WALNUT * |
| KENNEDY | BLUE STREAK ** |
| EISENHOWER | CARIBBEAN BLUE * |
| I-290/IL53/I-355 | POST OFFICE BLUE ** |
| RYAN | YELLOW STONE II ** |
| I-55 | MEDIUM BRONZE * |
| I-57 | RED BARON ** |
| CAL-KING | BLUE STREAK ** |
| LAKE SHORE DR. | GREEN * |
| I-80 | STATUARY BRONZE ** |
- ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.
- * MORTON POWDER PAINT COLOR OR EQUIVALENT.
 - ** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
 - *** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

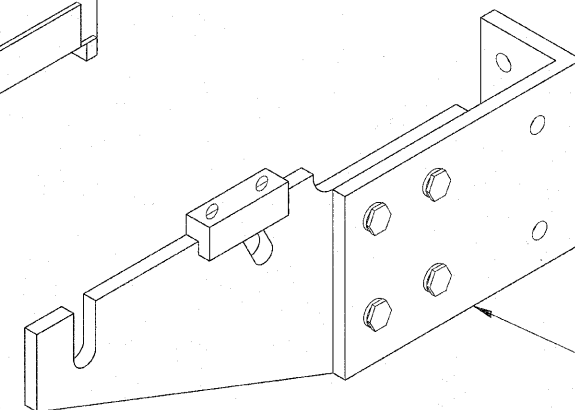
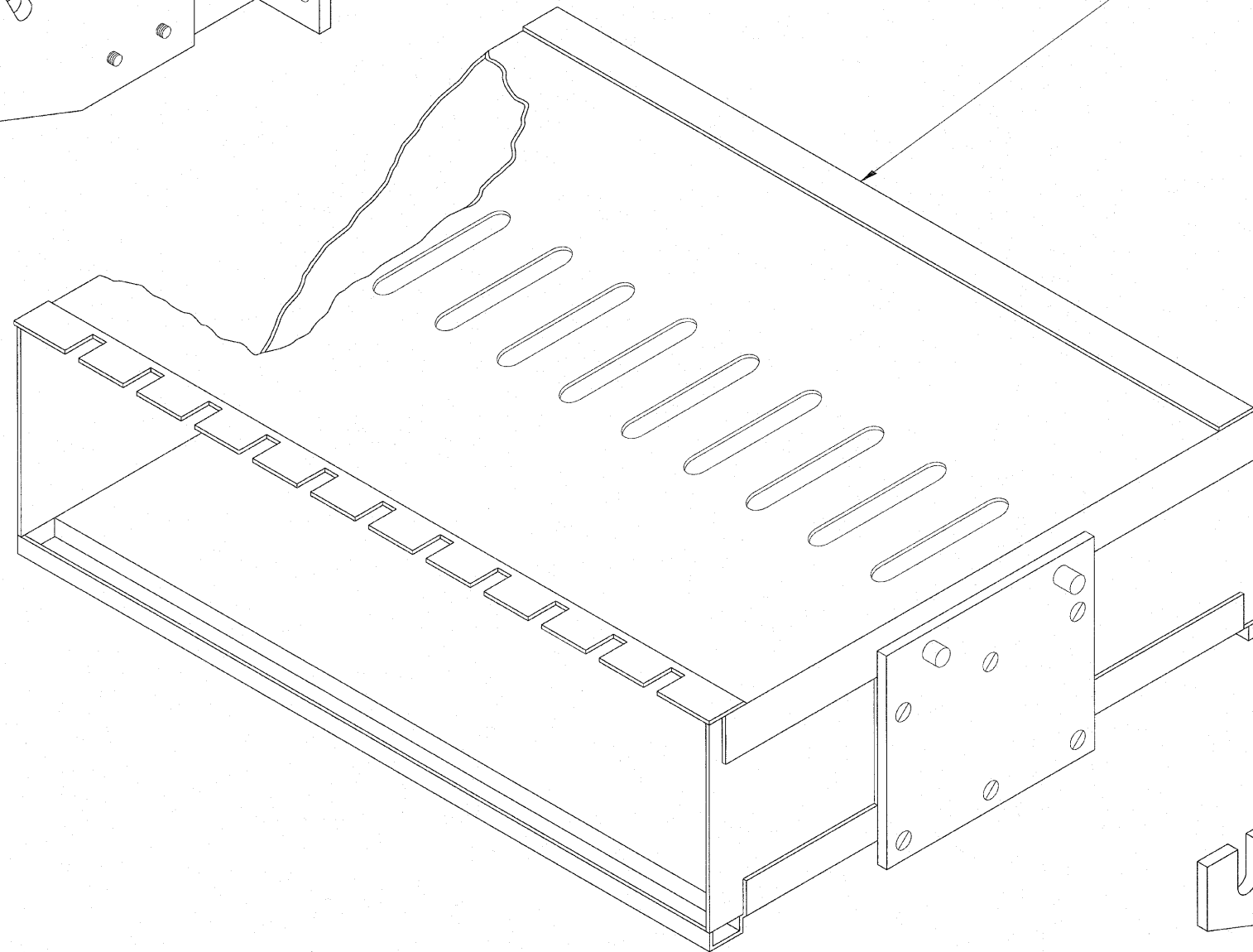
NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS

FILE NAME = YORKTYP.dgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABINET DETAIL SHEET	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
YORKTYP.dgn	PLOT SCALE = 1"=12'	DRAWN - BLV	REVISED -			3537	(4Y & 22-3R-2)	DUPAGE	284	197
PLOT DATE = 1/14/2010	CHECKED - SRC	REVISED -	REVISED -			CONTRACT NO. 62093				
	DATE - 1/18/10	REVISED -	REVISED -							

CRADLE



II MODULE MOUNTING FRAME
(FOR II TYPE "A" PLUG-IN TYPE TONE MODULES)



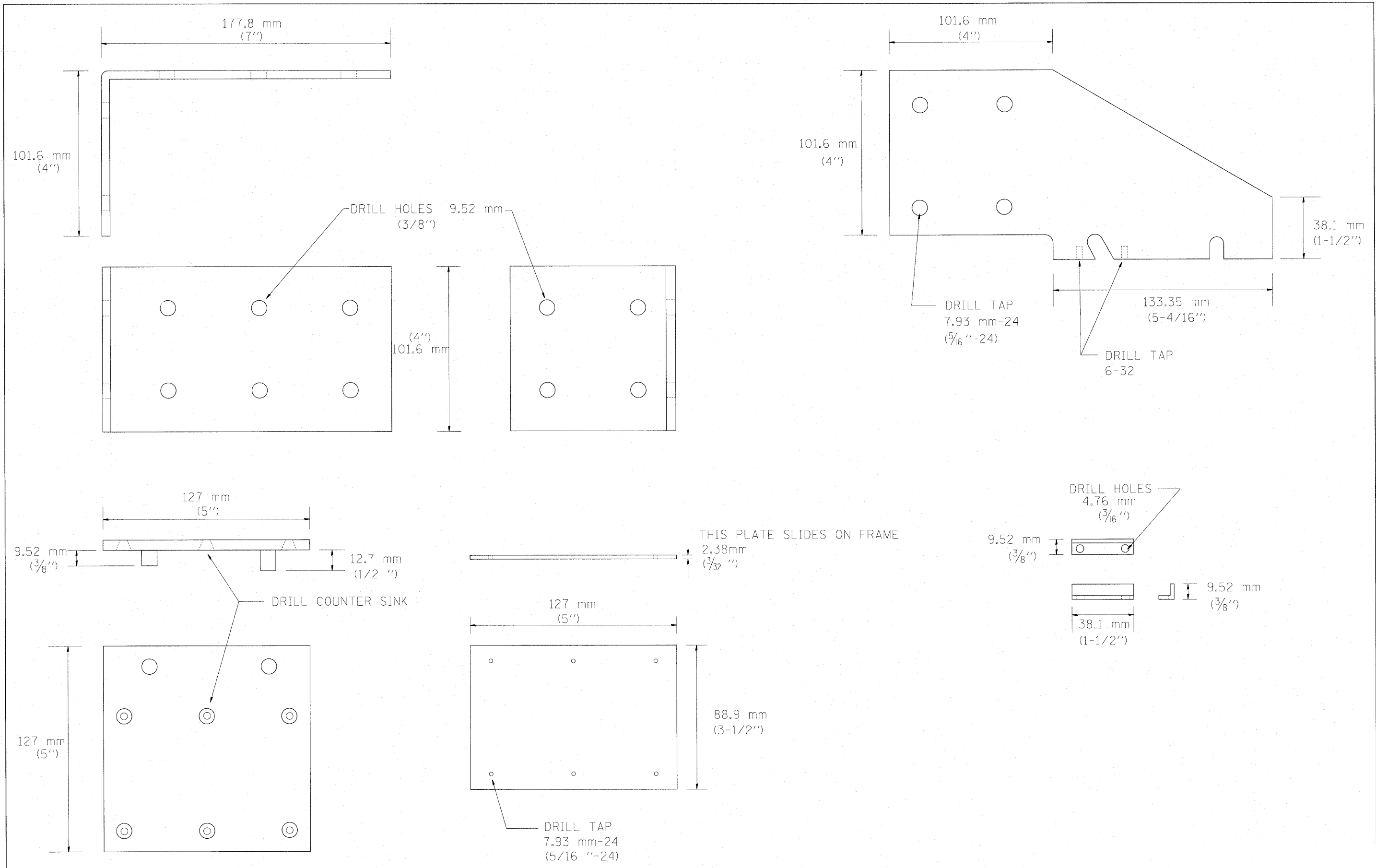
CRADLE

NOTE:

TYPE "A" TONE MODULES ARE PLUG
IN UNIT MEASURING 5-7/32" (132.55 mm) X 1.5" (38.1 mm) X 13-3/4" (349.25 mm)

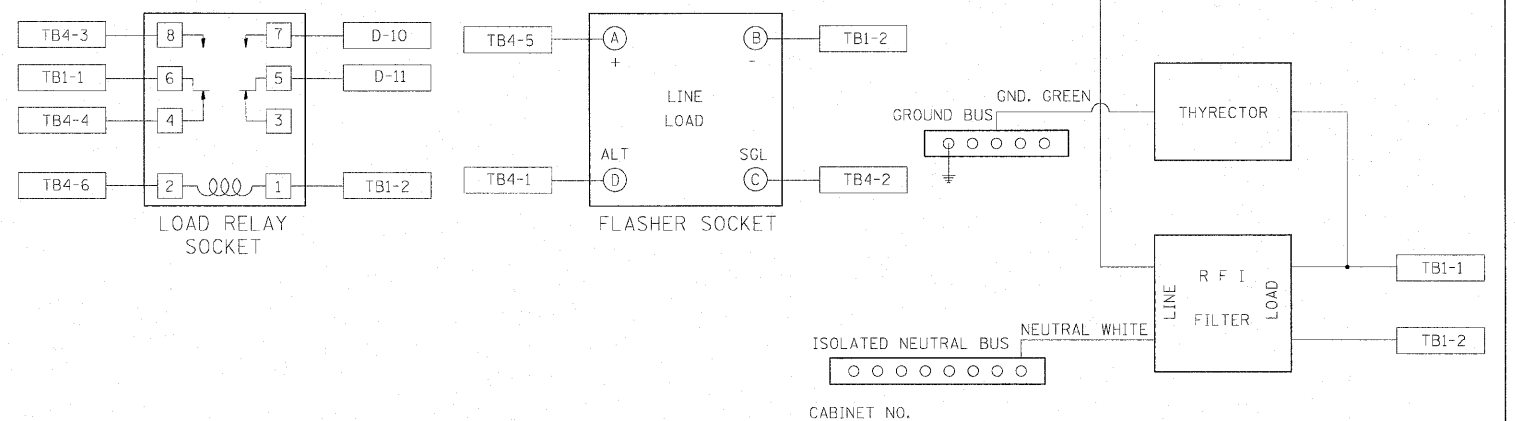
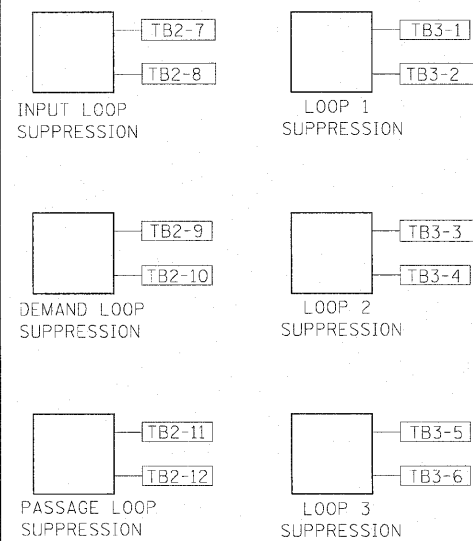
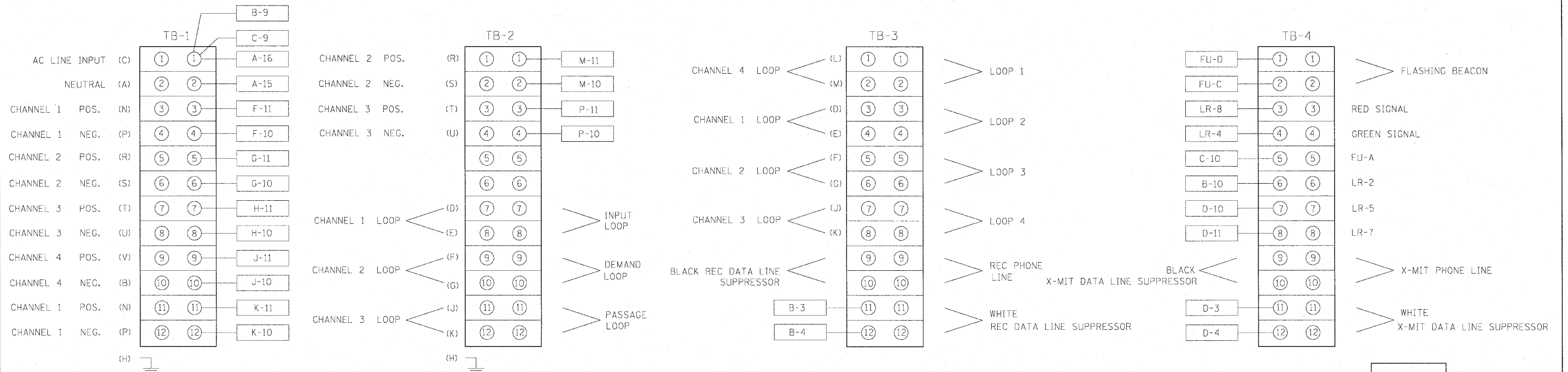
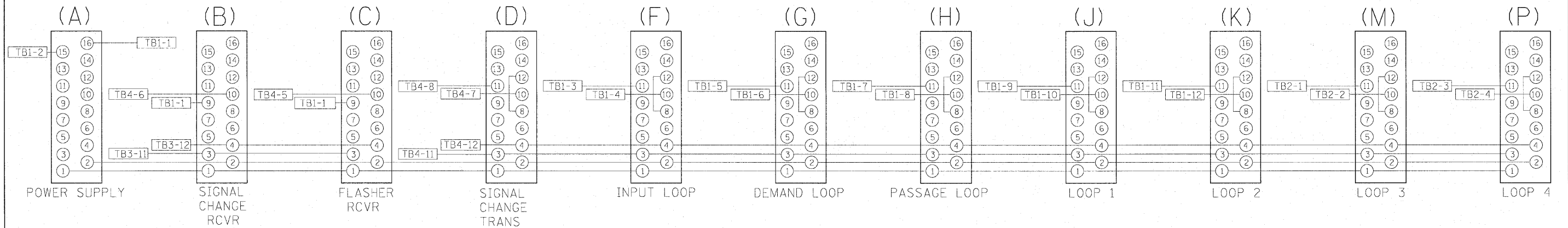
FILE NAME = YORKTYP.dgn YORKTYP.dgn	USER NAME = IDOTlang	DESIGNED - DRAWN - BLV	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIELD MOUNTING FRAME WITH CRADLE ASSEMBLY			F.A.U. RTE. 3537	SECTION (4Y & 22-3R-2)	COUNTY	TOTAL SHEETS 284	SHEET NO. 198
	PLOT SCALE = 1"=12'	CHECKED - SRG	REVISED -		SCALE: N.T.S.	SHEET NO. 198 OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 62093
	PLOT DATE = 1/14/2010	DATE - 1/18/10	REVISED -									

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#8)



FILE NAME = YORRKYTP.dgn	USER NAME = IDOT(eng)	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIELD CRADLE ASSEMBLY	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
YORRKYTP.dgn		DRAWN - BLV	REVISED -			3537	(4Y & 22-3R-2)	DUPAGE	284	199	
PLOT SCALE = 1"=12'		CHECKED - SRG	REVISED -			CONTRACT NO. 62093					
PLOT DATE = 1/14/2010		DATE - 1/18/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: N.T.S.	SHEET NO. 199 OF SHEETS		STA.	TO STA.		

BACK VIEW OF TONE RACK



FILE NAME = YORRTP.dgn YORRTP.dgn	USER NAME = IDDT(eng)	DESIGNED - DRAWN - BLV	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	METERING CABINET WIRING DIAGRAM	F.A.U. RTE. 3537	SECTION (4Y & 22-3IR-2)	COUNTY DUPAGE	TOTAL SHEETS 284	SHEET NO. 200	
PLOT SCALE = 1"=12"						SCALE: N.T.S.		SHEET NO. 200 OF SHEETS STA. TO STA.		CONTRACT NO. 62093	
PLOT DATE = 1/18/2010						DATE = 1/18/2010		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
CABINET NO.											