F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67 ★	1
	ILLINOIS	CONTRACT NO. 60I52		

★67-1=66

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 353 / U.S. ROUTE 30 (LINCOLN HWY)
SECTION 13–I WILLIAM ST TO VANCINA LN (ADVANCED CONTRACT)
PROJECT – –
PAVEMENT WIDENING AND TRAFFIC SIGNAL INSTALLATION
WILL COUNTY

C–91–057–10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

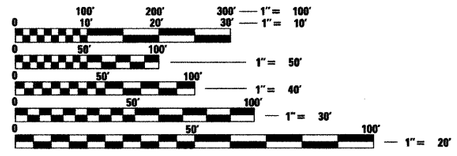
PROJECT IS LOCATED IN THE VILLAGE OF NEW LENOX

DESIGN DESIGNATION

2,340 (20) OTHER PRINCIPAL ARTERIAL 4.27 (FD-20)

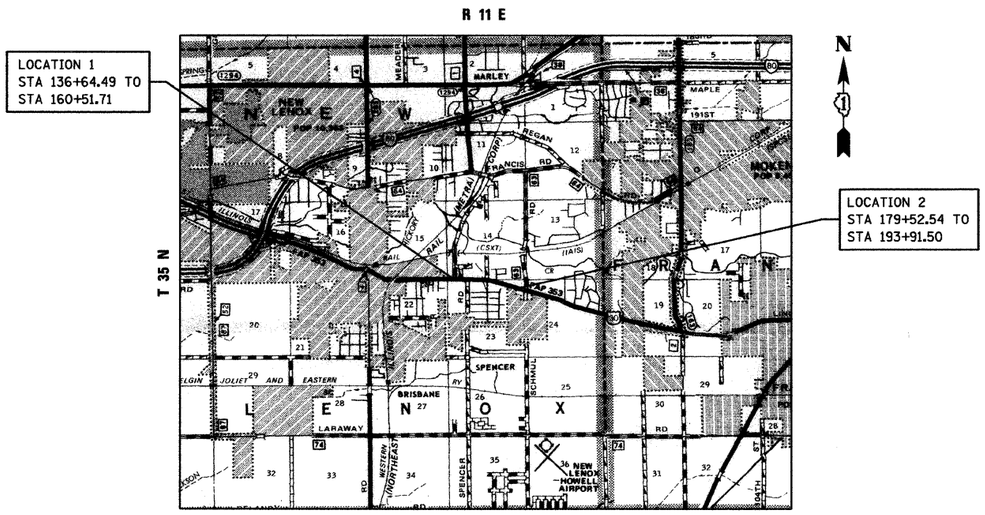
TRAFFIC DATA:

	ADT (1998)	DESIGN SPEED	POSTED SPEED
U.S. RTE 30	16,000	45	40
MARLEY ROAD	2,500	30	30



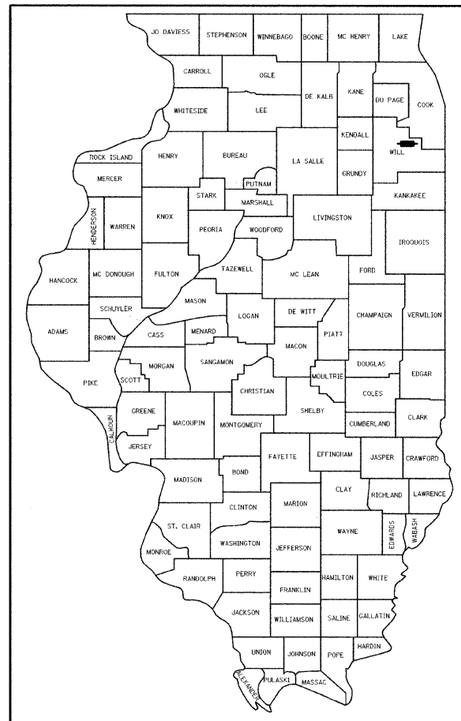
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



NEW LENOX TOWNSHIP (N.T.S.)
GROSS LENGTH = 3,826 FT. = 0.725 MILE
NET LENGTH = 3,826 FT. = 0.725 MILE

D–91–219–02



LOCATION OF SECTION INDICATED THUS:– ■

ROADWAY DESIGNED BY DLZ

STATE OF ILLINOIS
Gregory R. Brumm
049216
REGISTERED PROFESSIONAL ENGINEER

Gregory R Brumm
SIGNATURE

11/30/2011
EXPIRES

SEAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 27, 2010

Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 19, 2010
Scott E. Stitt, P.E. /BD
Acting ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2010
Christine M. Reed /BD
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER – MICHELLE AQUINO – (847) 705–4606
PROJECT MANAGER – RAJENDRA SHAH – (847) 705–4555

CONTRACT NO. 60I52

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-01	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" THRU 54" PIPE)
602301-02	INLET, TYPE A
602401-02	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604056-03	FRAME AND GRATE, TYPE 11V
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

GENERAL NOTES

DIMENSIONS ARE IN ENGLISH UNITS UNLESS NOTED OTHERWISE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED.)

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

10 FT. TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL DEPOSITS THAT OBSTRUCT THE FLOW OF WATER IN DRAINING THE AREA SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

THE RESIDENT ENGINEER SHOULD CONTACT CORA MATHIS, AREA TRAFFIC FIELD ENGINEER, AT (815) 485-6475 PRIOR TO INSTALLING ANY PERMANENT PAVEMENT MARKINGS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LOCATIONS SHOWN IN THE PLANS SHALL BE REPLACED AT NOT ADDITIONAL COST TO THE DEPARTMENT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING PROPERTIES.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

MAILBOXES INTERFERING WITH CONSTRUCTION OPERATIONS SHALL BE RELOCATED IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.

ROW AND TEMPORARY EASEMENTS HAVE BEEN OBTAINED BY OTHERS FOR THIS CONTRACT. THE ENGINEER SHALL VERIFY ALL AVAILABLE ROW WITH LAND ACQUISITION PRIOR TO THE BEGINNING OF CONSTRUCTION.

COMMITMENTS

NONE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	2
		CONTRACT NO. 60I52		
	ILLINOIS FED. AID PROJECT			

PAY ITEM #	PAY ITEM	UNIT	TOTAL QUANTITY	100% STATE ROADWAY I000-1A	100% NEW LENOX UTILITY ADJ Y060	50% STATE 50% NEW LENOX SIGNALS Y031-1F	100% NEW LENOX FPD SIGNALS Y031-3D
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	8	8			
20200100	EARTH EXCAVATION	CU YD	1180	1180			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1268	1268			
20800150	TRENCH BACKFILL	CU YD	55	55			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4834	4834			
25000210	SEEDING, CLASS 2A	ACRE	1	1			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90			
25100630	EROSION CONTROL BLANKET	SQ YD	4834	4834			
28000400	PERIMETER EROSION BARRIER	FOOT	1859	1859			
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	71	71			
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	8	8			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	331	331			
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	102	102			
42400610	TEMPORARY SIDEWALK	SQ FT	1203	1203			
42400800	DETECTABLE WARNINGS	SQ FT	56	56			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1178	1178			
44000300	CURB REMOVAL	FOOT	356	356			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	584	584			
44000600	SIDEWALK REMOVAL	SQ FT	1224	1224			
44003100	MEDIAN REMOVAL	SQ FT	348	348			
44200124	PAVEMENT PATCHING, TYPE III, 10 INCH	SQ YD	41	41			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1229	1229			
50105220	PIPE CULVERT REMOVAL	FOOT	134	134			
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	67	67			
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1			
54247170	GRATING FOR CONCRETE FLARED END SECTION 36"	EACH	1	1			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	24	24			
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	94	94			
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	14	14			
55039700	STORM SEWERS TO BE CLEANED	FOOT	214	214			
55100700	STORM SEWER REMOVAL 15"	FOOT	166	166			
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	EACH	1	1			
60255500	MANHOLES TO BE ADJUSTED	EACH	4	4			
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1			
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1		1		
60500040	REMOVING MANHOLES	EACH	1	1			

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	3
		CONTRACT NO. 60152		
		ILLINOIS FED. AID PROJECT		

PAY ITEM #	PAY ITEM	UNIT	TOTAL QUANTITY	100% STATE ROADWAY I000-1A	100% NEW LENOX UTILITY ADJ Y060	50% STATE 50% NEW LENOX SIGNALS Y031-1F	100% NEW LENOX FPD SIGNALS Y031-3D
60600605	CONCRETE CURB, TYPE B	FOOT	44	44			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	663	663			
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	7	7			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
67100100	MOBILIZATION	L SUM	1	1			
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	765	765			
72000100	SIGN PANEL - TYPE 1	SQ FT	61.5	61.5			
72000200	SIGN PANEL - TYPE 2	SQ FT	20	20			
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	3			
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	9	9			
73000100	WOOD SIGN SUPPORT	FOOT	111	111			
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	499.2	499.2			
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16387	16387			
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2133	2133			
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	376	376			
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	213	213			
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	178	178			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	6723	6723			
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	246			246	
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	30			30	
81400100	HANDHOLE	EACH	3			3	
81400300	DOUBLE HANDHOLE	EACH	2			2	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	246			246	
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1			1	
87200400	SPAN WIRE	FOOT	653			653	
87200500	TETHER WIRE	FOOT	584			584	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	750			750	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	792			792	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50			50	
87302212	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 2C	FOOT	1629			1629	
87302225	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	2662			2662	
87302245	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	1347			1347	
87302255	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	2909			2909	
88030030	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	4			4	
88030120	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	8			8	
88700200	LIGHT DETECTOR	EACH	3				3

* SPECIALTY ITEMS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	4
		CONTRACT NO. 60152		
	ILLINOIS	FED. AID PROJECT		

	PAY ITEM #	PAY ITEM	UNIT	TOTAL QUANTITY	100% STATE ROADWAY I000-1A	100% NEW LENOX UTILITY ADJ Y060	50% STATE 50% NEW LENOX SIGNALS Y031-1F	100% NEW LENOX FPD SIGNALS Y031-3D
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1				1
*	X0301023	CONFIRMATION BEACON	EACH	3				3
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	101.4	101.4			
	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1			
*	X0323651	REMOVE AND REINSTALL EXISTING LIGHTING UNIT	EACH	1		1		
	X0712400	TEMPORARY PAVEMENT	SQ YD	2206	2206			
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2			
	X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1	1			
*	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1			1	
*	X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1			1	
*	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	50			50	
*	X8730350	ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	1033				1033
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4			
*	**88102717**	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED *WITH COUNTDOWN TIMER*	EACH	6			6	
*	**X0326884**	TRAFFIC SIGNAL WOOD POLE, 45 FT, CLASS 5	EACH	4			4	
*	**X0326883**	TRAFFIC SIGNAL WOOD POLE, 15 FT, CLASS 5	EACH	6			6	
*	**X0326885**	VIDEO DETECTION SYSTEM	EACH	1			1	
	28000520	ABOVE GRADE INLET FILTERS	EACH	8	8			
	28000305	TEMPORARY DITCH CHECKS	FOOT	151	151			
	X0326886	BRICK SIGN AND CONCRETE FOUNDATION REMOVAL AND RELOCATION	L SUM	1	1			
	X0326902	LIMESTONE SCREENINGS, 2"	SQ YD	29	29			
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1			

*SPECIALTY ITEMS

Rev.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	5
		CONTRACT NO. 60I52		
	ILLINOIS	FED. AID PROJECT		

REMOVAL SCHEDULE

PAY CODE #		20100110	44000200	44000300	44000500	44000600	44003100
LOCATION		TREE REMOV 6-15	DRIVE PAVEMENT REM	CURB REM	COMB CURB GUTTER REM	SIDEWALK REMOVAL	MEDIAN REMOVAL
ROAD	STATION	UNIT	SQ YD	FOOT	FOOT	SQ FT	SQ FT
U.S. ROUTE 30	132+00 - 147+00		657	231			
(LINCOLN HWY.)	147+00 - 162+00		202	58	511	1224	192
	179+50 - 194+50	8	319	67			
	SUBTOTAL	8.0	1178.0	356.0	511.0	1224.0	192.0
MARLEY RD	MARLEY RD. (S)				73		156
	MARLEY RD. (N)						
	SUBTOTAL	0.0	0.0	0.0	73.0	0.0	156.0
TOTAL		8	1178	356	584	1224	348

ROADWAY SCHEDULE

PAY CODE #		35501316	40600100	40603310	42300200	42400610	42400800	44200124	48101500	60600605	60603800	66600105	X0712400	X4021000	X4022000	X4024000	
LOCATION		HMA BASE CSE 8	BIT MATLS PR CT	HMA SC "C" N50	PCC DRIVEWAY PAVT 6	TEMP SIDEWALK	DETECTABLE WARNINGS	PAVT PATCH T3 10	AGGREGATE SHLDS B 6	CONC CURB TB	COMB CC&G TB6.12	FUR ERECT ROW MARKERS	TEMP PAVEMENT	TEMP ACCESS - PRIV ENT	TEMP ACCESS - COM ENT	TEMP ACCESS - FLD ENT	LIMESTONE SCREEN, 2
ROAD	STATION	SQ YD	GALLON	TON	SQ YD	SQ FT	SQ FT	SQ YD	SQ YD	FOOT	FOOT	EACH	SQ YD	EACH	EACH	EACH	SQ YD
U.S. ROUTE 30	132+00 - 147+00		87						482			2	582		1		
(LINCOLN HWY.)	147+00 - 162+00	71	150	8	102	1203	56		211	44	606	3	998	1		1	29
	179+50 - 194+50		84					41	536		57		559		1		
	SUBTOTAL	71	321	8	102	1203	56	41	1229	44	663	5	2139	1	2	1	29
MARLEY RD	MARLEY RD. (S)		10										67				
	MARLEY RD. (N)											2					
	SUBTOTAL	0	10	0	0	0	0	0	0	0	0	2	67	0	0	0	0
TOTAL		71	331	8	102	1203	56	41	1229	44	663	7	2206	1	2	1	29

EROSION & LANDSCAPING SCHEDULE

PAY CODE #		21101615	25000210	25000400	25000500	25000600	25100630	28000400		
LOCATION		TOPSOIL F & P 4	SEEDING CL 2A	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR	EROSION CONTR BLANKET	PERIMETER EROS BAR	TEMPORARY DITCH CHECKS	ABOVE GRADE INLET FILTERS
ROAD	STATION	SQ YD	ACRE	POUND	POUND	POUND	SQ YD	FOOT	FOOT	EACH
U.S. ROUTE 30	132+00 - 147+00	987	0.2	18	18	18	987	902		
(LINCOLN HWY.)	147+00 - 162+00	683	0.14	13	13	13	683	413		5
	179+50 - 194+50	3164	0.65	59	59	59	3164	544	151	3
	SUBTOTAL	4834	1	90	90	90	4834	1859	151	8
MARLEY RD	MARLEY RD. (S)									
	MARLEY RD. (N)									
	SUBTOTAL	0	0	0	0	0	0	0	0	0
TOTAL		4834	1	90	90	90	4834	1859	151	8

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	6
		CONTRACT NO. 60152		
	ILLINOIS	FED. AID PROJECT		

DRAINAGE & UTILITY SCHEDULE

LOCATION		20800150 TRENCH BACKFILL	50105220 PIPE CULVERT REMOV	542D0220 P CUL CL D 1 15	54213681 PRC FLAR END SEC 36	54247170 GRATING-C FL END S 36	550A0050 STORM SEW CL A 1 12	550A0070 STORM SEW CL A 1 15	550A0160 STORM SEW CL A 1 36	55039700 SS CLEANED	55100700 STORM SEWER REM 15	60221100 MAN TA 5 DIA T1F CL	60236825 INLETS TA T11V F&G	60255500 MAN ADJUST	60250500 CB ADJ NEW T1F CL	60265700 VV ADJUST	60500040 REMOV MANHOLES	X0322936 REM EX FLAR END SEC	X0323651 REM & REIN EX LT UNIT	Z0018500 DRAINAGE STR CLEANED
ROAD	STATION	CU YD	FOOT	FOOT	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
U.S. ROUTE 30	132+00 - 147+00													1						
(LINCOLN HWY.)	147+00 - 162+00	1					24	27		214	22		1	2		1			1	4
	179+50 - 194+50	54	134	67	1	1		67	14		144	1		1	1		1	1		
	SUBTOTAL	55	134	67	1	1	24	94	14	214	166	1	1	4	1	1	1	1	1	4
MARLEY RD	MARLEY RD. (S)																			
	MARLEY RD. (N)																			
	SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		55	134	67	1	1	24	94	14	214	166	1	1	4	1	1	1	1	1	4

PAVEMENT MARKING & SIGNING SCHEDULE

LOCATION		70300100 SHORT -TERM PAVT MKING	72000100 SIGN PANEL T1	72000200 SIGN PANEL T2	72400100 REMOV SIN PAN ASSY TA	72400310 REMOV SIGN PANEL T1	73000100 WOOD SIN SUPPORT	78000100 THPL PVT MK LTR & SYM	78000200 THPL PVT MK LINE 4	78000400 THPL PVT MK LINE 6	78000600 THPL PVT MK LINE 12	78000650 THPL PVT MK LINE 24	78100100 RAISED REFL PAVT MKR	78300100 PAVT MARKING REMOVAL
ROAD	STATION	FOOT	SQ FT	SQ FT	EACH	SQ FT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	EACH	SQ FT
U.S. ROUTE 30	132+00 - 147+00	199	9				16	36.4	5115	149	90		52	2170
(LINCOLN HWY.)	147+00 - 162+00	373	9		1	9	16	202.8	7165	1110	111	166	86	3241
	179+50 - 194+50	166	43.5	10	2		64	182	3379	780	175	47	40	1050
	SUBTOTAL	738	61.5	10	3	9	96	421.2	15659	2039	376	213	178	6461
MARLEY RD	MARLEY RD. (S)	6		10			15	41.6	88	44				0
	MARLEY RD. (N)	21						36.4	640	50				262
	SUBTOTAL	27	0.0	10	0	0	15	78.0	728	94	0	0	0	262
TOTAL		765	61.5	20	3	9	111	499.2	16387	2133	376	213	178	6723

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	7
		CONTRACT NO. 60152		
		ILLINOIS FED. AID PROJECT		

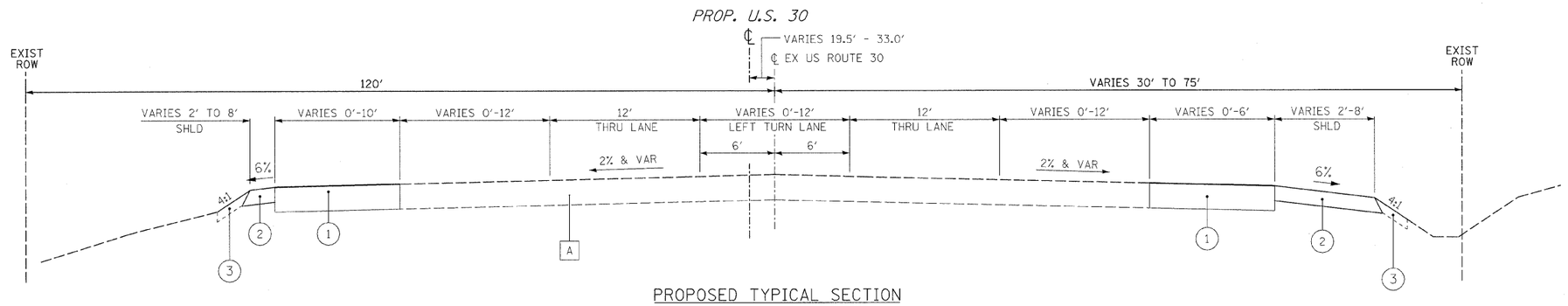
U. S. 30 EARTHWORK SCHEDULE

A SHRINKAGE FACTOR OF 15% WAS USED FOR EARTH EXCAVATION ADJUSTMENT

LOCATION		EARTH EXCAVATION	REM & DISP UNS MATL	EMBANKMENT	EMBANKMENT (ADJ. FOR SHRINKAGE)	BALANCE WASTE (+) OR SHORTAGE (-)
STA TO STA US 30		CU YD	CU YD	CU YD	CU YD	CU YD
13600	13700	9	0	0	7	7
13700	13800	18	0	0	15	15
13800	13900	20	0	0	17	17
13900	14000	24	0	0	20	20
14000	14100	29	2	1	25	23
14100	14200	16	21	27	14	-14
14200	14300	6	45	54	5	-50
14300	14400	6	36	36	5	-31
14400	14500	3	23	18	2	-15
14500	14600	4	22	15	4	-12
14600	14649	1	4	2	1	-2
14649	14700	0	0	0	0	0
14700	14800	9	17	0	8	7
14800	14900	11	79	23	9	-14
14900	14934	1	21	8	1	-7
14934	15233	0	0	0	0	0
15233	15300	8	9	11	7	-4
15300	15400	26	17	20	22	2
15400	15500	24	18	14	21	7
15500	15600	18	31	21	16	-5
15600	15700	20	26	19	17	-2
15700	15736	4	4	3	3	0
15736	15795	0	0	0	0	0
15795	15800	1	0	0	1	0
15800	15900	22	2	1	19	18
15900	16000	17	0	0	14	14
16000	16052	4	0	0	3	3
16052	17975	0	0	0	0	0
17975	18000	2	2	1	2	1
18000	18100	16	15	8	14	6
18100	18200	134	84	48	113	66
18200	18300	222	187	89	189	100
18300	18400	153	197	115	130	16
18400	18500	115	177	82	98	16
18500	18600	191	192	50	162	113
18600	18635	47	36	13	40	27
TOTALS =		1180	1268	679	1003	324

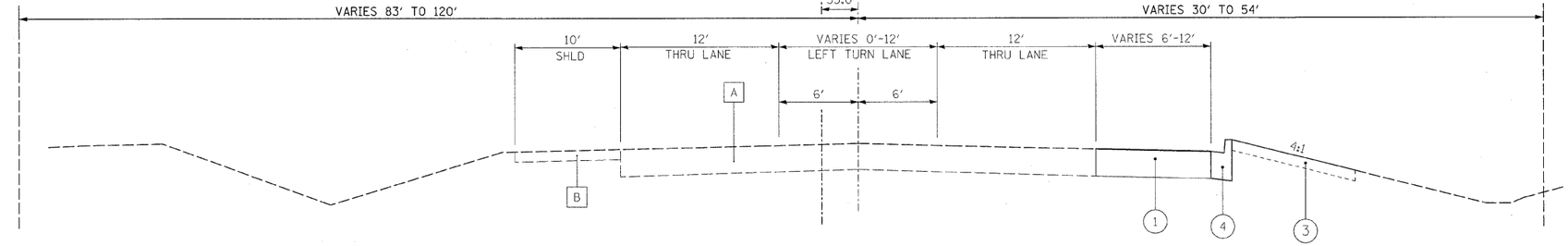
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION
		DRAWN -	REVISED -			353	13-I
	PLOT SCALE =	CHECKED -	REVISED -				
	PLOT DATE =	DATE -	REVISED -		SCALE: NTS SHEET NO. 3 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT

COUNTY	TOTAL SHEETS	SHEET NO.
WILL	67	8
CONTRACT NO. 60152		



PROPOSED TYPICAL SECTION

US ROUTE 30
STA 136+64 TO STA 152+33



PROPOSED TYPICAL SECTION

US ROUTE 30
STA 152+33 TO STA 155+68

EXISTING LEGEND

- A — HOT-MIX ASPHALT, 10" AND VARIES
- B — AGGREGATE SHOULDERS
- C — COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12

PROPOSED LEGEND

1. TEMPORARY PAVEMENT 10"
2. AGGREGATE SHOULDERS, TYPE B 6"
3. TOPSOIL FURNISH & PLACE, 4"
4. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ N_{des}
TEMPORARY ROAD (PAVEMENT)	
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 1½"	4% @ 50 Gyr.
TEMP. PAVEMENT (HMA BINDER IL-19 mm); 8 1/2 " (2 TO 3 LIFTS (2 1/4" MIN.))	4% @ 50 Gyr.
PATCHING	
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 Gyr.
DRIVEWAY	
HMA SURFACE COURSE, MIX "C", N50 (IL-9.5 mm); 2"	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19 mm); CE-8", PE-6"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	9
		CONTRACT NO. 60I52		
	ILLINOIS	FED. AID PROJECT		

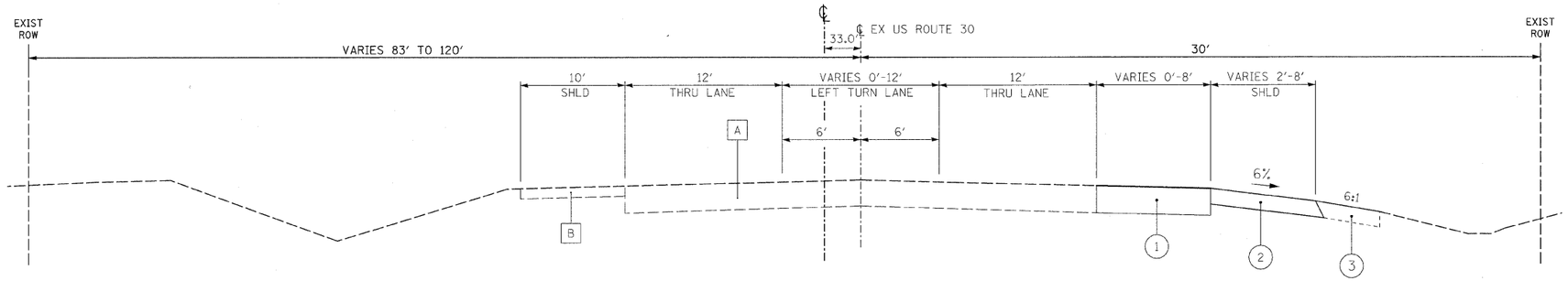
EXISTING LEGEND

- A — HOT-MIX ASPHALT, 10" AND VARIES
- B — AGGREGATE SHOULDERS
- C — COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12

PROPOSED LEGEND

- (1) TEMPORARY PAVEMENT 10"
- (2) AGGREGATE SHOULDERS, TYPE B 6"
- (3) TOPSOIL FURNISH & PLACE, 4"
- (4) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12

PROP. U.S. 30

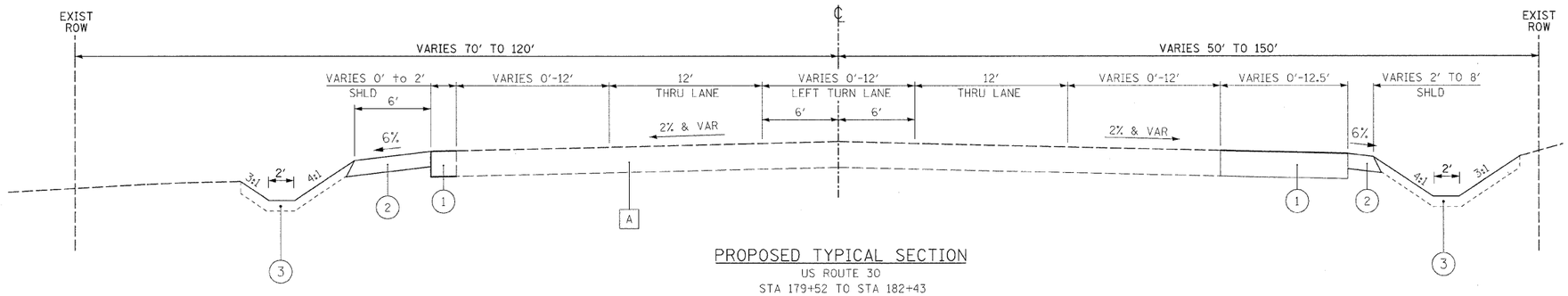


PROPOSED TYPICAL SECTION

US ROUTE 30

STA 155+68 TO STA 160+81

PROP. & EX. U.S. 30



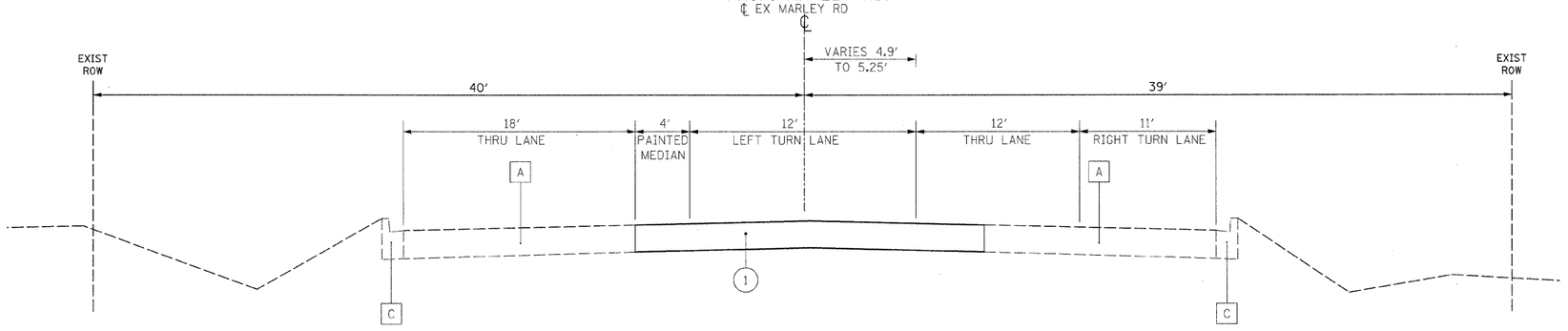
PROPOSED TYPICAL SECTION

US ROUTE 30

STA 179+52 TO STA 182+43

PROP. MARLEY RD.

℄ EX MARLEY RD



PROPOSED TYPICAL SECTION

MARLEY RD

STA 97+71.00 TO STA 99+13.00

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

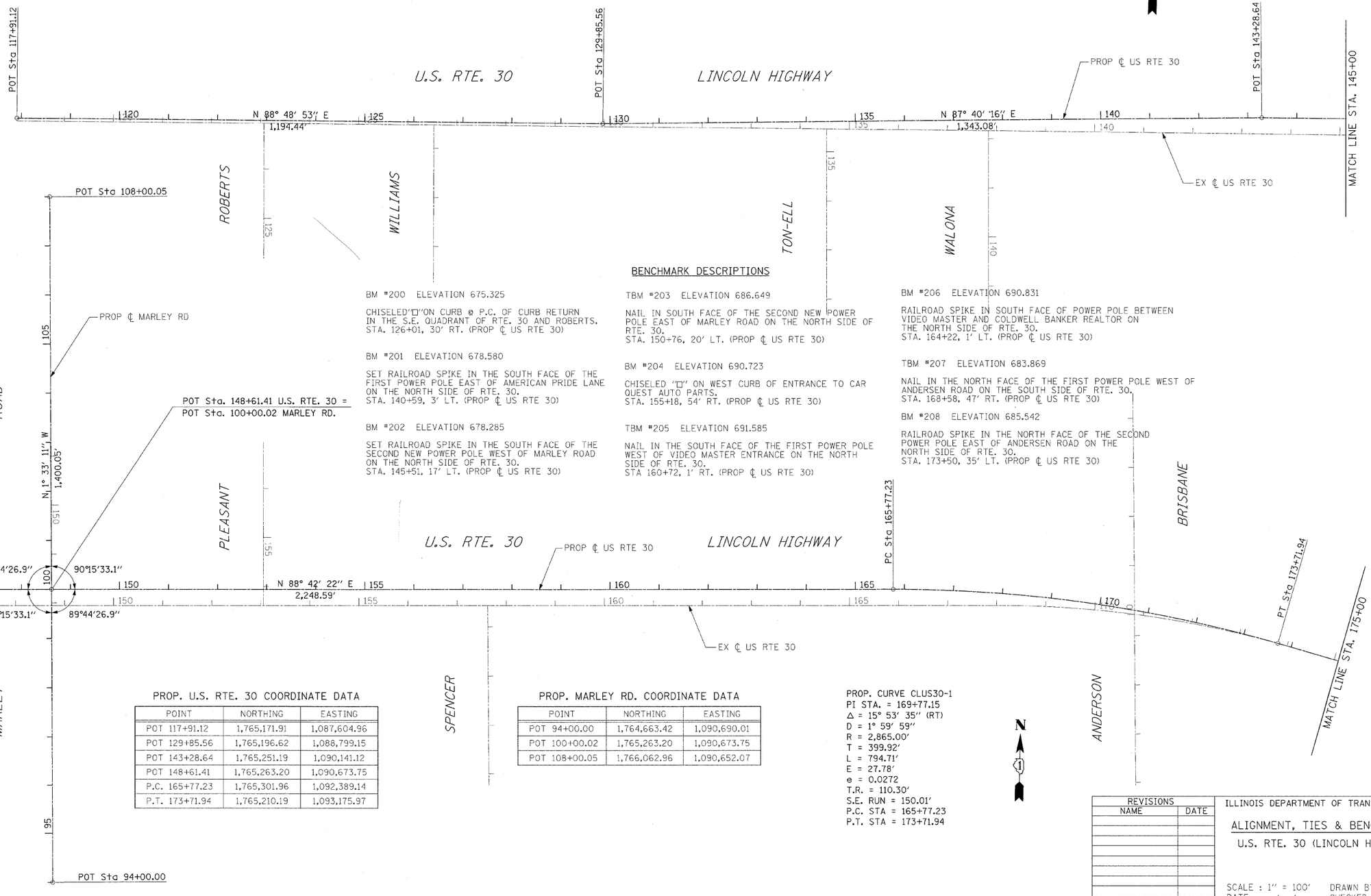
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE: NTS | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	10
		CONTRACT NO. 60152		
	ILLINOIS FED. AID PROJECT			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	13-I	WILL	67	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BENCHMARK DESCRIPTIONS

BM #200 ELEVATION 675.325

CHISELED "□" ON CURB @ P.C. OF CURB RETURN IN THE S.E. QUADRANT OF RTE. 30 AND ROBERTS. STA. 126+01, 30' RT. (PROP ℄ US RTE 30)

BM #201 ELEVATION 678.580

SET RAILROAD SPIKE IN THE SOUTH FACE OF THE FIRST POWER POLE EAST OF AMERICAN PRIDE LANE ON THE NORTH SIDE OF RTE. 30. STA. 140+59, 3' LT. (PROP ℄ US RTE 30)

BM #202 ELEVATION 678.285

SET RAILROAD SPIKE IN THE SOUTH FACE OF THE SECOND NEW POWER POLE WEST OF MARLEY ROAD ON THE NORTH SIDE OF RTE. 30. STA. 145+51, 17' LT. (PROP ℄ US RTE 30)

TBM #203 ELEVATION 686.649

NAIL IN SOUTH FACE OF THE SECOND NEW POWER POLE EAST OF MARLEY ROAD ON THE NORTH SIDE OF RTE. 30. STA. 150+76, 20' LT. (PROP ℄ US RTE 30)

BM #204 ELEVATION 690.723

CHISELED "□" ON WEST CURB OF ENTRANCE TO CAR QUEST AUTO PARTS. STA. 155+18, 54' RT. (PROP ℄ US RTE 30)

TBM #205 ELEVATION 691.585

NAIL IN THE SOUTH FACE OF THE FIRST POWER POLE WEST OF VIDEO MASTER ENTRANCE ON THE NORTH SIDE OF RTE. 30. STA 160+72, 1' RT. (PROP ℄ US RTE 30)

BM #206 ELEVATION 690.831

RAILROAD SPIKE IN SOUTH FACE OF POWER POLE BETWEEN VIDEO MASTER AND COLDWELL BANKER REALTOR ON THE NORTH SIDE OF RTE. 30. STA. 164+22, 1' LT. (PROP ℄ US RTE 30)

TBM #207 ELEVATION 683.869

NAIL IN THE NORTH FACE OF THE FIRST POWER POLE WEST OF ANDERSEN ROAD ON THE SOUTH SIDE OF RTE. 30. STA. 168+58, 47' RT. (PROP ℄ US RTE 30)

BM #208 ELEVATION 685.542

RAILROAD SPIKE IN THE NORTH FACE OF THE SECOND POWER POLE EAST OF ANDERSEN ROAD ON THE NORTH SIDE OF RTE. 30. STA. 173+50, 35' LT. (PROP ℄ US RTE 30)

PROP. U.S. RTE. 30 COORDINATE DATA

POINT	NORTHING	EASTING
POT 117+91.12	1,765,171.91	1,087,604.96
POT 129+85.56	1,765,196.62	1,088,799.15
POT 143+28.64	1,765,251.19	1,090,141.12
POT 148+61.41	1,765,263.20	1,090,673.75
P.C. 165+77.23	1,765,301.96	1,092,389.14
P.T. 173+71.94	1,765,210.19	1,093,175.97

PROP. MARLEY RD. COORDINATE DATA

POINT	NORTHING	EASTING
POT 94+00.00	1,764,663.42	1,090,690.01
POT 100+00.02	1,765,263.20	1,090,673.75
POT 108+00.05	1,766,062.96	1,090,652.07

PROP. CURVE CLUS30-1
PI STA. = 169+77.15
Δ = 15° 53' 35" (RT)
D = 1° 59' 59"
R = 2,865.00'
T = 399.92'
L = 794.71'
E = 27.78'
e = 0.0272
T.R. = 110.30'
S.E. RUN = 150.01'
P.C. STA = 165+77.23
P.T. STA = 173+71.94

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

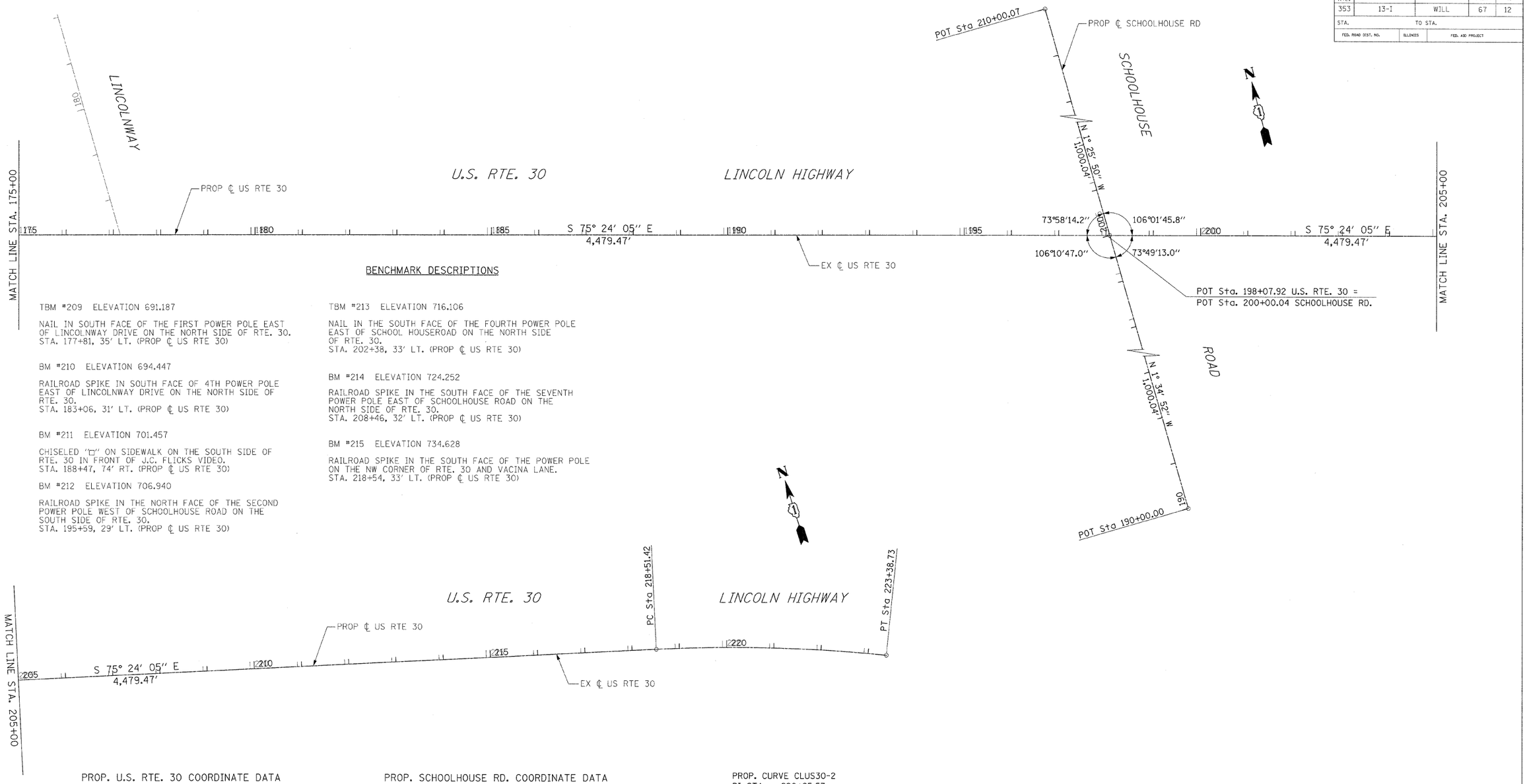
ALIGNMENT, TIES & BENCHMARKS

U.S. RTE. 30 (LINCOLN HIGHWAY)

SCALE : 1" = 100' DRAWN BY : BAE
DATE : / / CHECKED BY : GB

DLZ ENGINEERS · ARCHITECTS · SCIENTISTS · PLANNERS · SURVEYORS
55 W. ALGONQUIN ROAD, SUITE 220 ARLINGTON HEIGHTS, IL 60005 TEL: (847) 640-0840

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
353	13-I	WILL	67	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BENCHMARK DESCRIPTIONS

TBM #209 ELEVATION 691.187

NAIL IN SOUTH FACE OF THE FIRST POWER POLE EAST OF LINCOLNWAY DRIVE ON THE NORTH SIDE OF RTE. 30.
STA. 177+81, 35′ LT. (PROP ℄ US RTE 30)

BM #210 ELEVATION 694.447

RAILROAD SPIKE IN SOUTH FACE OF 4TH POWER POLE EAST OF LINCOLNWAY DRIVE ON THE NORTH SIDE OF RTE. 30.
STA. 183+06, 31′ LT. (PROP ℄ US RTE 30)

BM #211 ELEVATION 701.457

CHISELED "□" ON SIDEWALK ON THE SOUTH SIDE OF RTE. 30 IN FRONT OF J.C. FLICKS VIDEO.
STA. 188+47, 74′ RT. (PROP ℄ US RTE 30)

BM #212 ELEVATION 706.940

RAILROAD SPIKE IN THE NORTH FACE OF THE SECOND POWER POLE WEST OF SCHOOLHOUSE ROAD ON THE SOUTH SIDE OF RTE. 30.
STA. 195+59, 29′ LT. (PROP ℄ US RTE 30)

TBM #213 ELEVATION 716.106

NAIL IN THE SOUTH FACE OF THE FOURTH POWER POLE EAST OF SCHOOL HOUSEROAD ON THE NORTH SIDE OF RTE. 30.
STA. 202+38, 33′ LT. (PROP ℄ US RTE 30)

BM #214 ELEVATION 724.252

RAILROAD SPIKE IN THE SOUTH FACE OF THE SEVENTH POWER POLE EAST OF SCHOOLHOUSE ROAD ON THE NORTH SIDE OF RTE. 30.
STA. 208+46, 32′ LT. (PROP ℄ US RTE 30)

BM #215 ELEVATION 734.628

RAILROAD SPIKE IN THE SOUTH FACE OF THE POWER POLE ON THE NW CORNER OF RTE. 30 AND VACINA LANE.
STA. 218+54, 33′ LT. (PROP ℄ US RTE 30)

PROP. U.S. RTE. 30 COORDINATE DATA

POINT	NORTHING	EASTING
POT 198+07.92	1,764,596.21	1,095,533.30
P.C. 218+51.42	1,764,081.15	1,097,510.82
P.T. 223+38.73	1,763,923.75	1,097,971.54
P.C. 224+88.74	1,763,864.83	1,098,109.50

PROP. SCHOOLHOUSE RD. COORDINATE DATA

POINT	NORTHING	EASTING
POT 190+00.00	1,763,596.55	1,095,560.89
POT 200+00.04	1,764,596.21	1,095,533.30
POT 210+00.07	1,765,595.93	1,095,508.33

PROP. CURVE CLUS30-2
PI STA. = 220+95.53
△ = 8° 31′ 39″ (RT)
D = 1° 45′ 00″
R = 3,274.22′
T = 244.11′
L = 487.32′
E = 9.09′
e = 0.0256
T.R. = 117.19′
S.E. RUN = 150.01′
P.C. STA = 218+51.42
P.T. STA = 223+38.73

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

U.S. RTE. 30 (LINCOLN HIGHWAY)

SCALE : 1″ = 100′ DRAWN BY : BAE
DATE : / / CHECKED BY : GB

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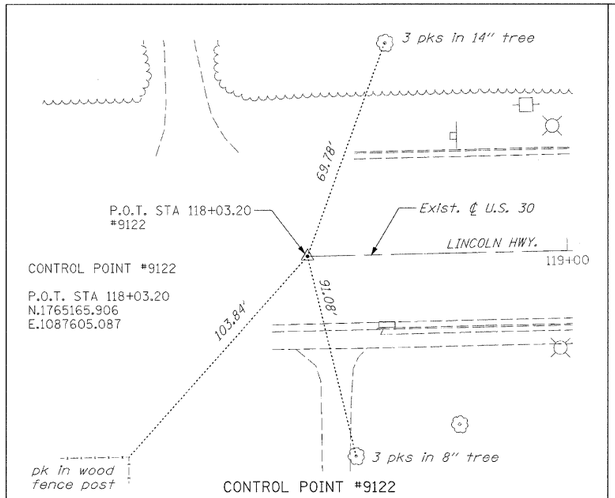
$FILE$ $DATE$ $TIME$

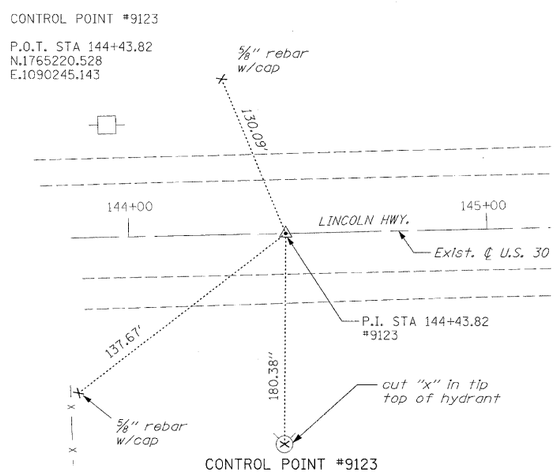
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONTROL POINT #9122

P.O.T. STA 118+03.20
N.1765165.906
E.1087605.087

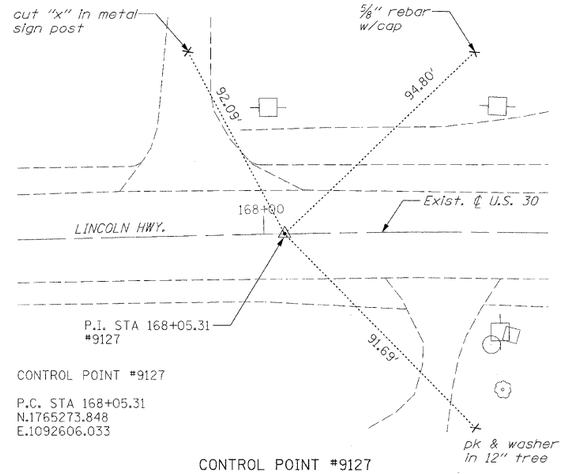
CONTROL POINT #9122



CONTROL POINT #9123

P.O.T. STA 144+43.82
N.1765220.528
E.1090245.143

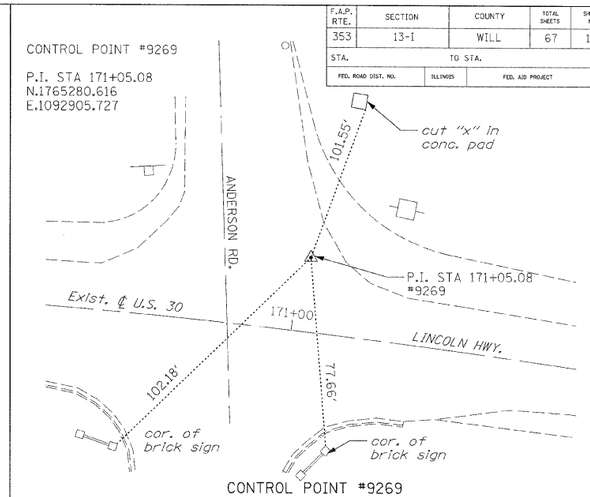
CONTROL POINT #9123



CONTROL POINT #9127

P.C. STA 168+05.31
N.1765273.848
E.1092606.033

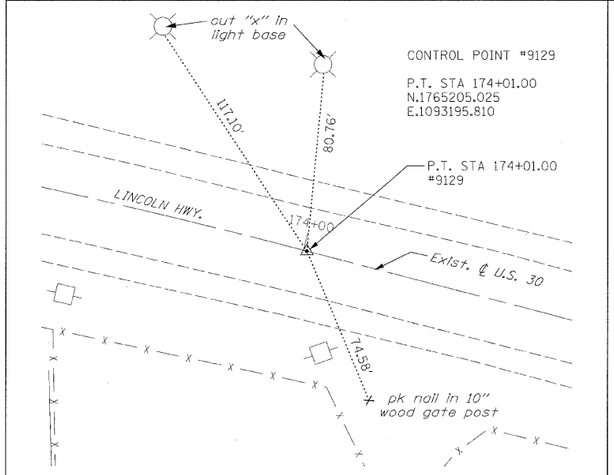
CONTROL POINT #9127



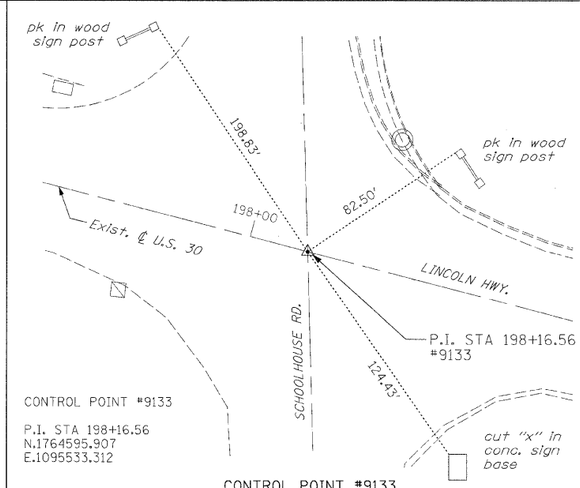
CONTROL POINT #9269

P.I. STA 171+05.08
N.1765280.616
E.1092905.727

CONTROL POINT #9269



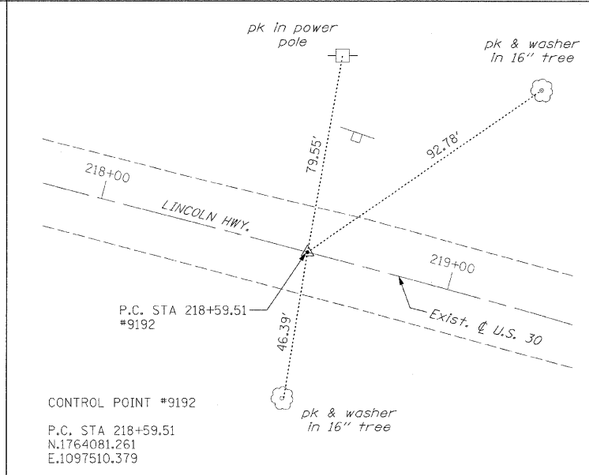
CONTROL POINT #9129



CONTROL POINT #9133

P.I. STA 198+16.56
N.1764595.907
E.1095533.312

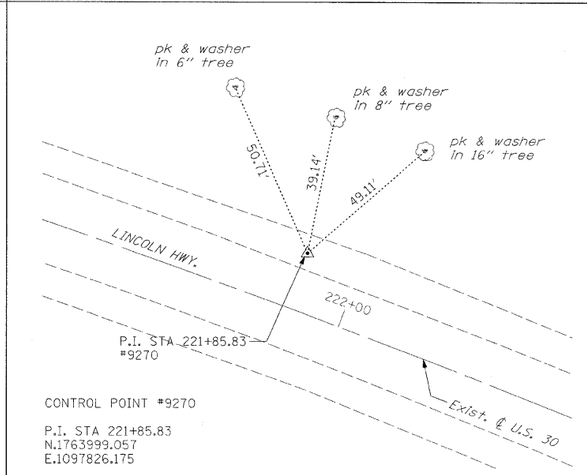
CONTROL POINT #9133



CONTROL POINT #9192

P.C. STA 218+59.51
N.1764081.261
E.1097510.379

CONTROL POINT #9192



CONTROL POINT #9270

P.I. STA 221+85.83
N.1763999.057
E.1097826.175

CONTROL POINT #9270

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

U.S. RTE. 30 (LINCOLN HIGHWAY)

SCALE : NTS
DATE : / /

DRAWN BY : BAE
CHECKED BY : GB

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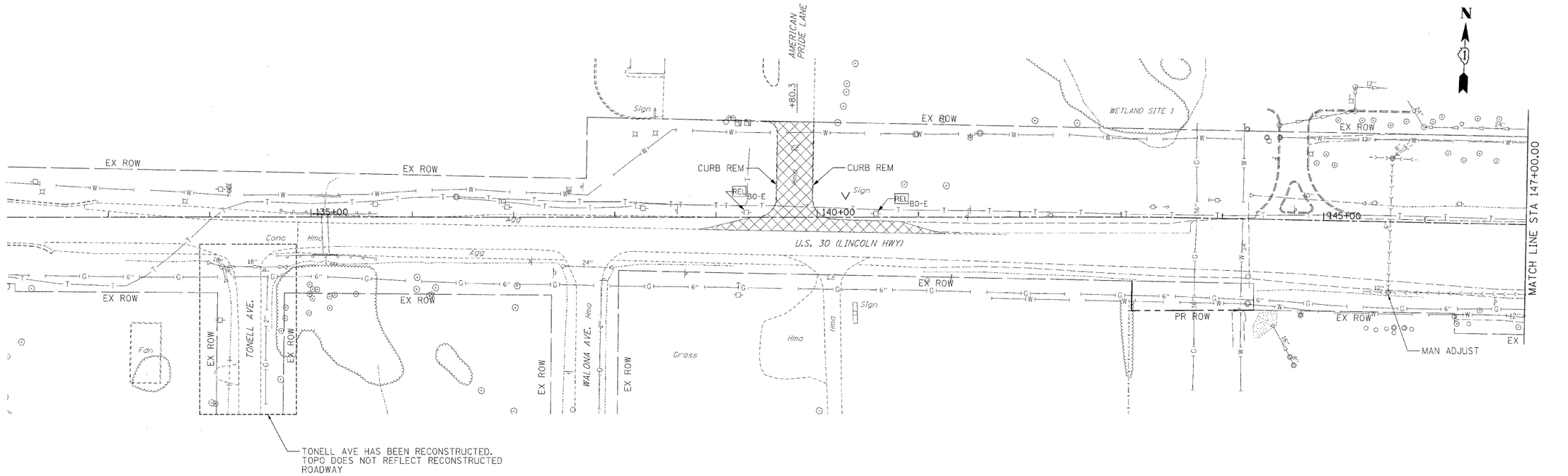
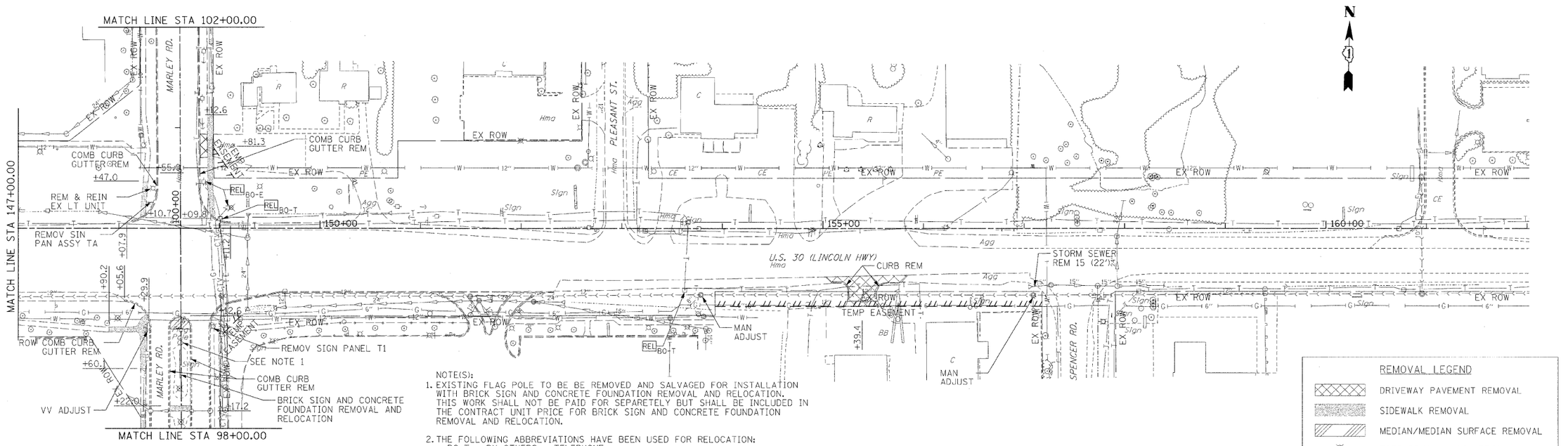
85 W. ALGONQUIN ROAD, SUITE 220 ARLINGTON HEIGHTS, IL 60005 TEL: (847) 640-0840





NOTE(S):
1. EXISTING FLAG POLE TO BE BE REMOVED AND SALVAGED FOR INSTALLATION WITH BRICK SIGN AND CONCRETE FOUNDATION REMOVAL AND RELOCATION. THIS WORK SHALL NOT BE PAID FOR SEPARETELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BRICK SIGN AND CONCRETE FOUNDATION REMOVAL AND RELOCATION.

2. THE FOLLOWING ABBREVIATIONS HAVE BEEN USED FOR RELOCATION:
   BO-T - BY OTHERS - TELEPHONE
   BO-E - BY OTHERS - ELECTRIC
   BO-C - BY OTHERS - CABLE

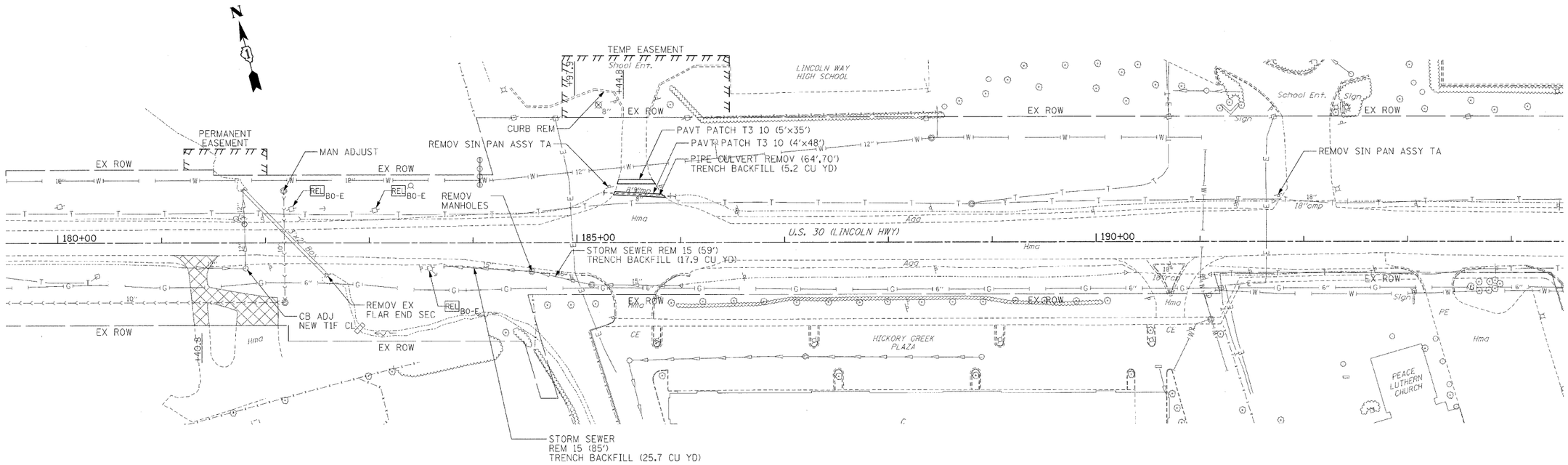
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLANS

SCALE: 1:50 | SHEET NO. 1 OF 2 SHEETS | STA. 132+00 TO STA. 162+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	14
		CONTRACT NO. 60152		
		ILLINOIS FED. AID PROJECT		



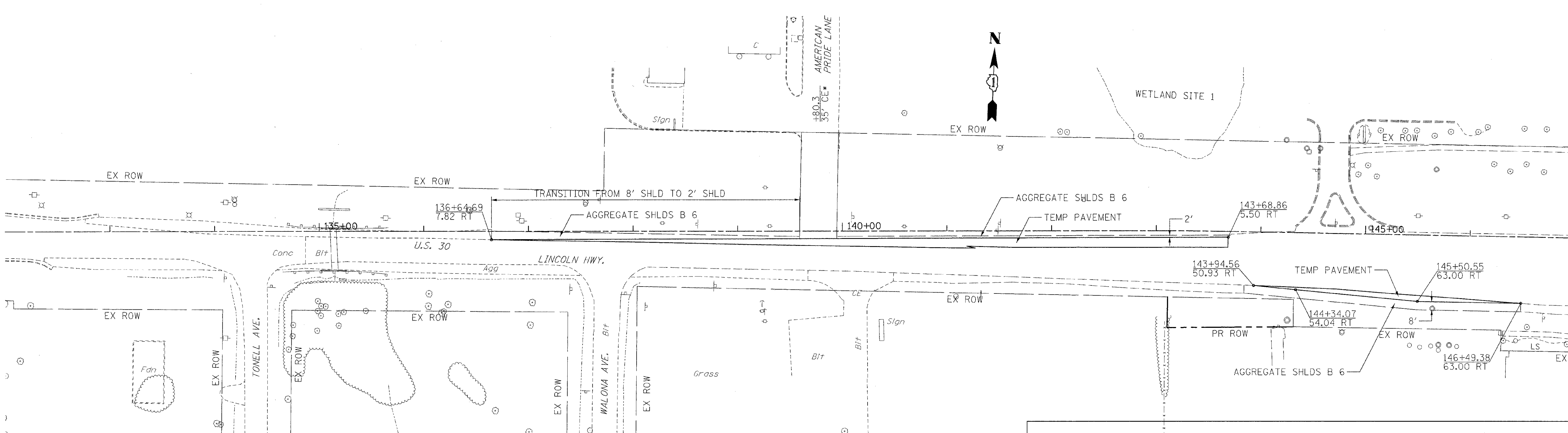
NOTE(S):

1. THE FOLLOWING ABBREVIATIONS HAVE BEEN USED FOR RELOCATION:
   BO-T - BY OTHERS - TELEPHONE
   BO-E - BY OTHERS - ELECTRIC
   BO-C - BY OTHERS - CABLE

REMOVAL LEGEND

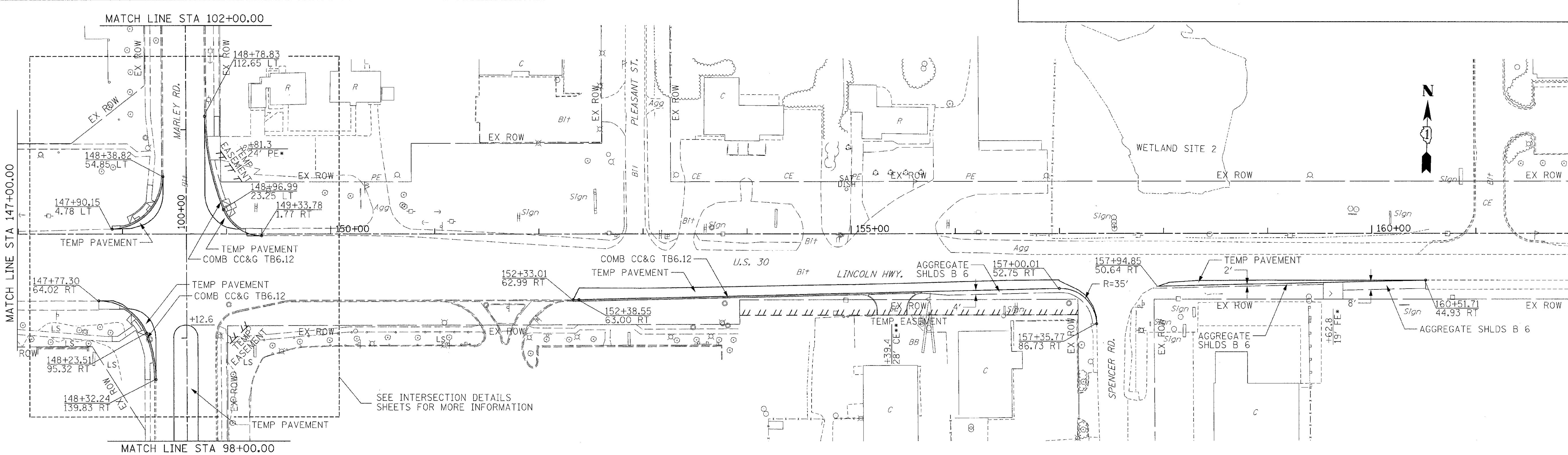
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- MEDIAN/MEDIAN SURFACE REMOVAL
- 10" TREE REMOVAL, DIAMETER

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			353	13-1	WILL	67	15
	PLOT SCALE =	CHECKED -	REVISED -							CONTRACT NO. 60152
	PLOT DATE =	DATE -	REVISED -		SCALE: 1:50 SHEET NO. 2 OF 2 SHEETS STA. 179+50 TO STA. 194+50			ILLINOIS	FED. AID PROJECT	



*DRIVEWAY TO BE CONSTRUCTED IN ACCORDANCE WITH SPECIAL PROVISION AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS.

**DRIVEWAY TO BE CONSTRUCTED IN ACCORDANCE WITH DISTRICT DETAIL "DRIVEWAY DETAILS - DISTANCE BETWEEN ROW AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)" (BD-01)



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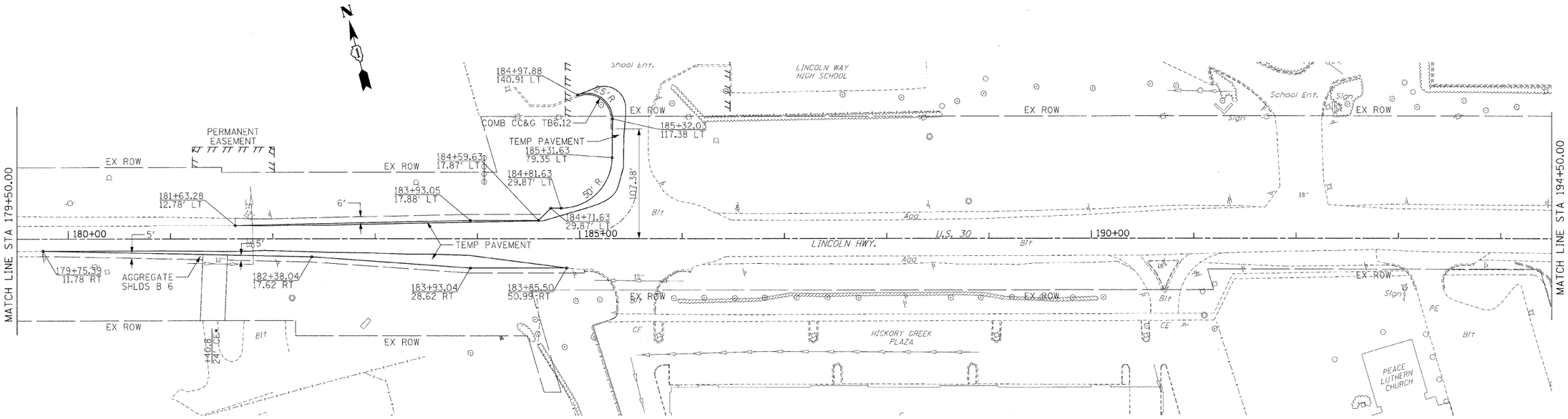
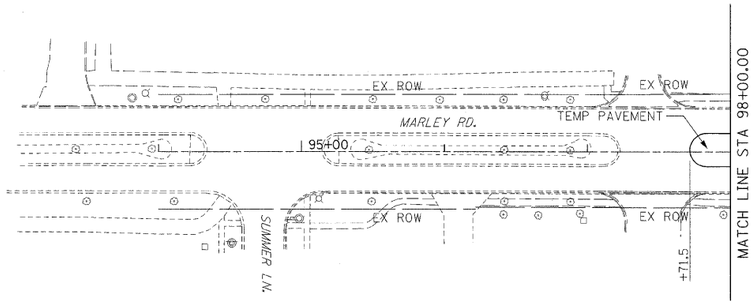
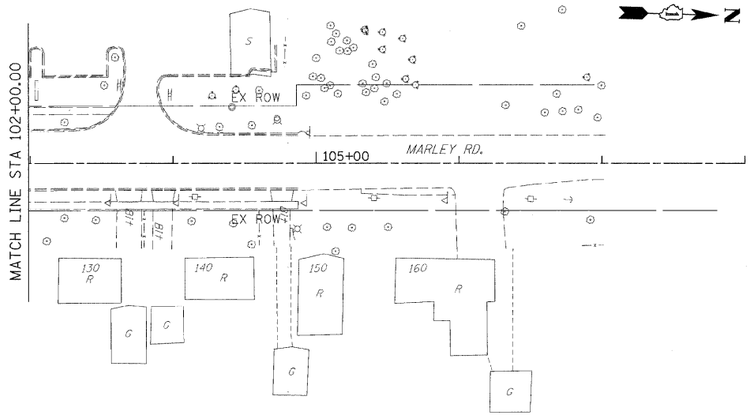
		DRAWN -	REVISED -			353	13-I	WILL	67	16
	PLOT SCALE =	CHECKED -	REVISED -					CONTRACT NO. 60152		
	PLOT DATE =	DATE -	REVISED -		SCALE: 1:50 · SHEET NO. 1 OF 2 SHEETS · STA. 132+00 TO STA. 162+00			ILLINOIS FED. AID PROJECT		







*DRIVEWAY TO BE CONSTRUCTED IN ACCORDANCE WITH SPECIAL PROVISION AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS.

**DRIVEWAY TO BE CONSTRUCTED IN ACCORDANCE WITH DISTRICT DETAIL "DRIVEWAY DETAILS - DISTANCE BETWEEN ROW AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)" (BD-01)

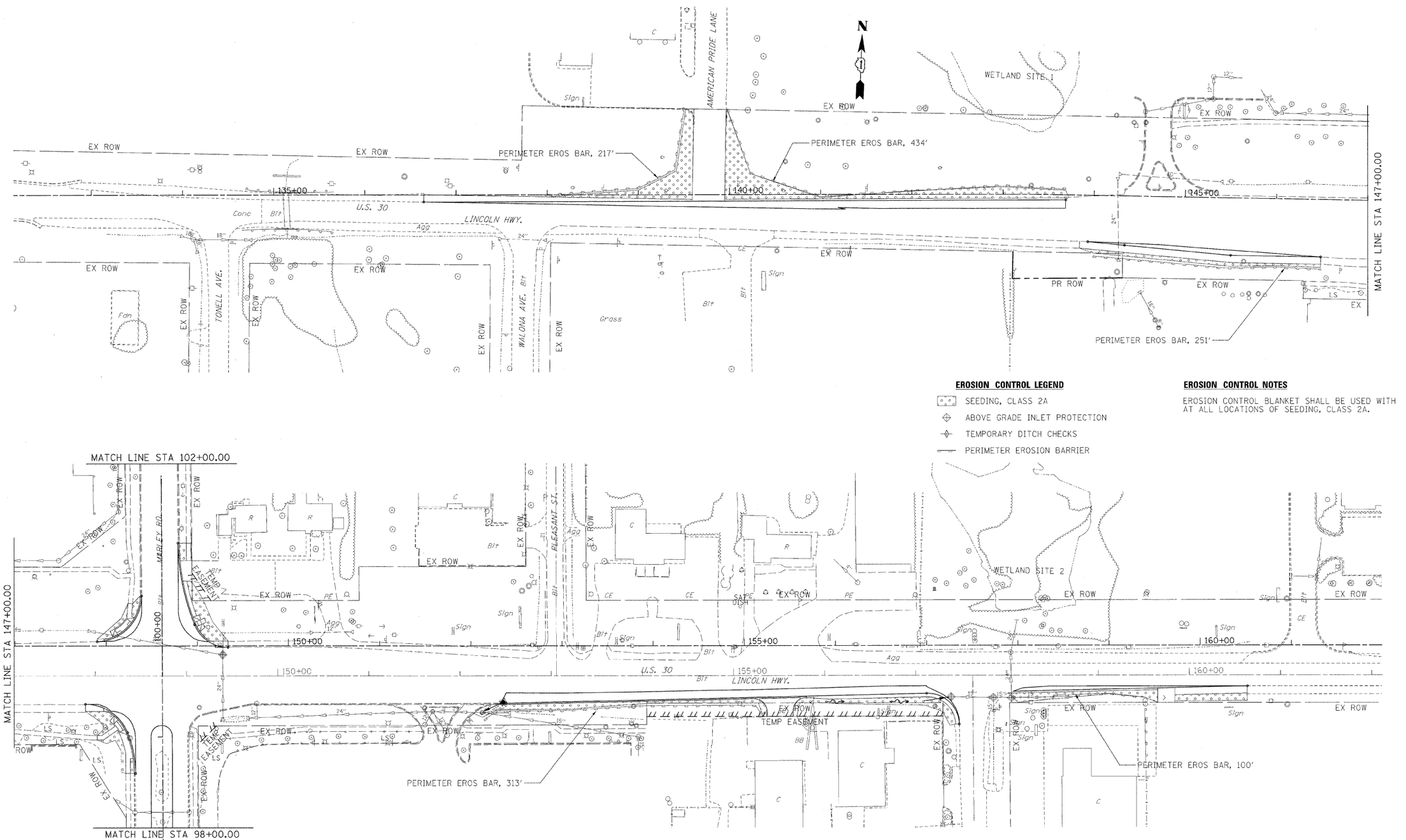
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN
US ROUTE 30 (LINCOLN HIGHWAY)

SCALE: 1:50 | SHEET NO. 2 OF 2 SHEETS | STA. 179+50.00 TO STA. 194+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	17
		CONTRACT NO. 60I52		
		ILLINOIS FED. AID PROJECT		



EROSION CONTROL LEGEND

- SEEDING, CLASS 2A
- ABOVE GRADE INLET PROTECTION
- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER

EROSION CONTROL NOTES

EROSION CONTROL BLANKET SHALL BE USED WITH AT ALL LOCATIONS OF SEEDING, CLASS 2A.

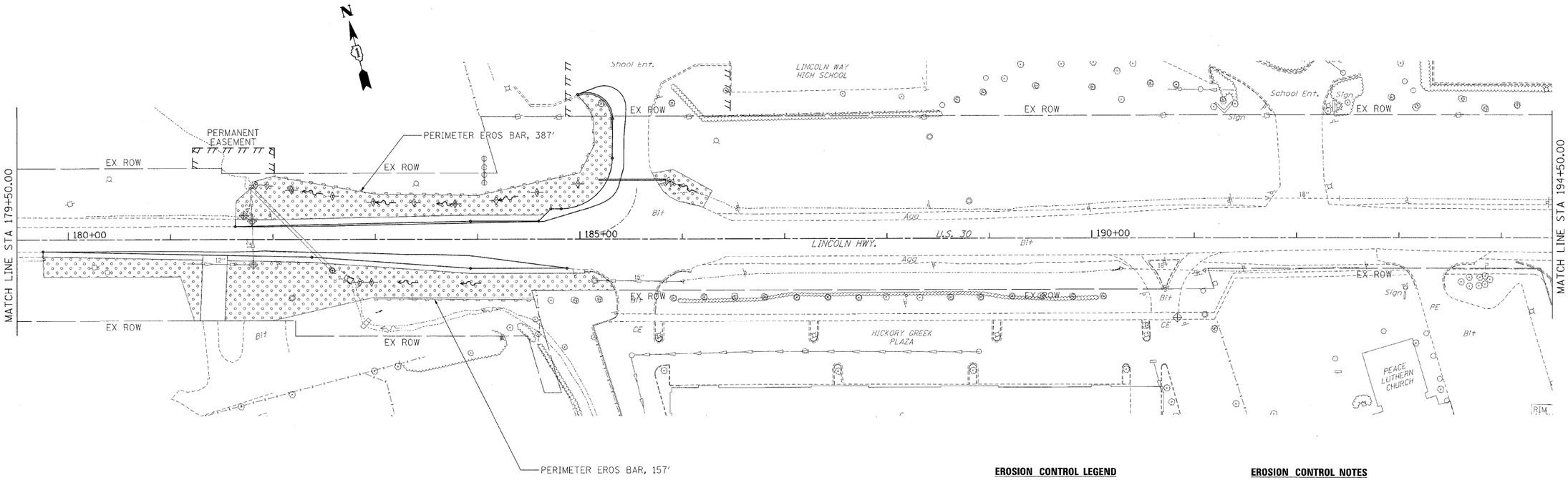
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	P_LOT SCALE =	CHECKED -	REVISED -
	P_LOT DATE =	DATE -	REVISED -

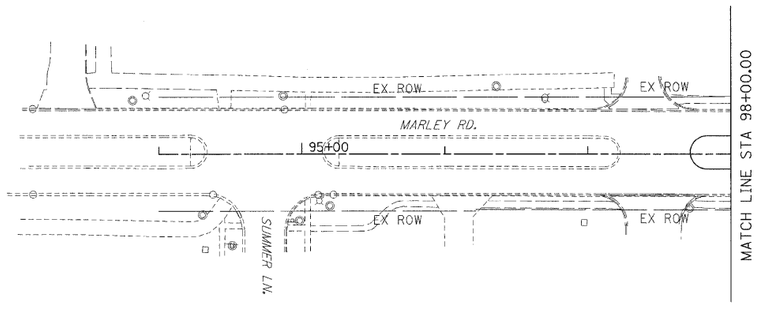
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

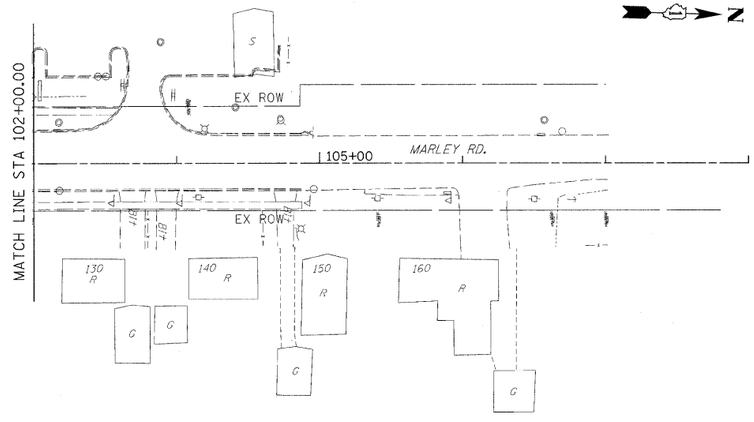
EROSION CONTROL PLAN
US ROUTE 30 (LINCOLN HIGHWAY)

SCALE: 1:50 | SHEET NO. 1 OF 2 SHEETS | STA. 132+00 TO STA. 162+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	18
		CONTRACT NO. 60I52		
		ILLINOIS FED. AID PROJECT		







EROSION CONTROL LEGEND

- SEEDING, CLASS 2A
- ABOVE GRADE INLET PROTECTION
- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER

EROSION CONTROL NOTES

EROSION CONTROL BLANKET SHALL BE USED WITH AT ALL LOCATIONS OF SEEDING, CLASS 2A.

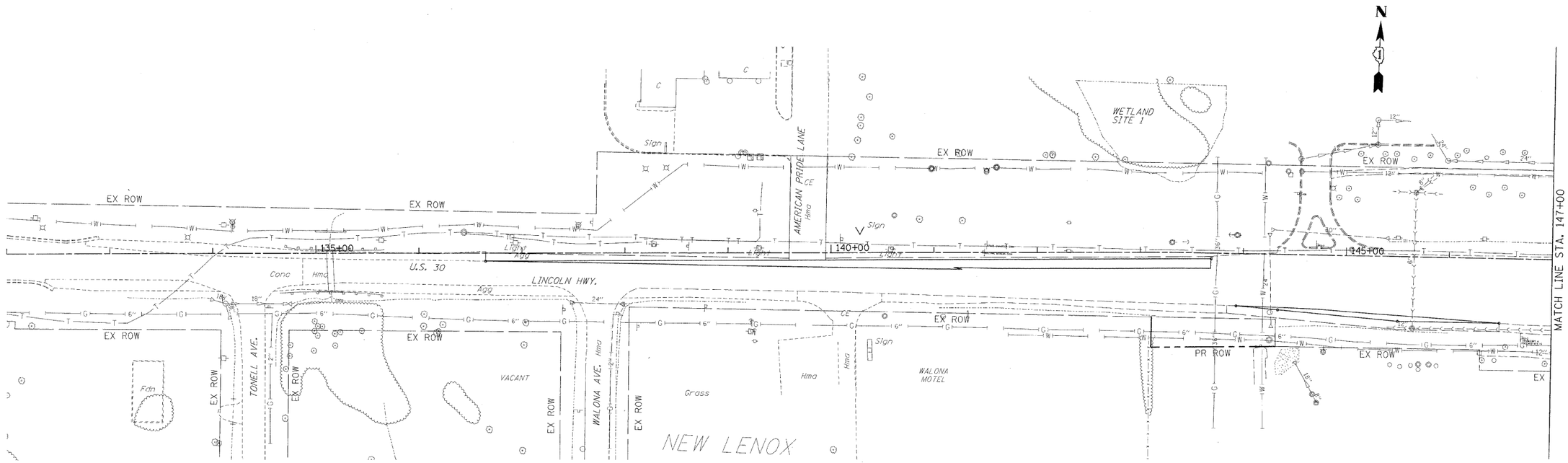
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
US ROUTE 30 (LINCOLN HIGHWAY)

SCALE: 1:50 | SHEET NO. 2 OF 2 SHEETS | STA. 174+50 TO STA. 194+50.00

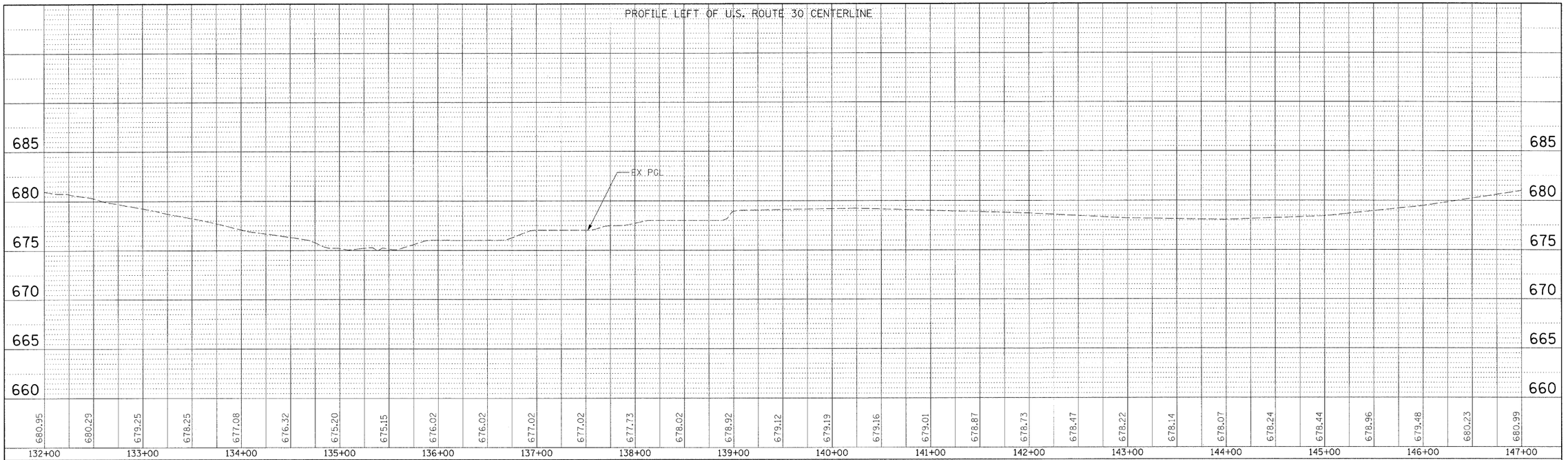
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	19
		CONTRACT NO. 60152		
	ILLINOIS FED. AID PROJECT			



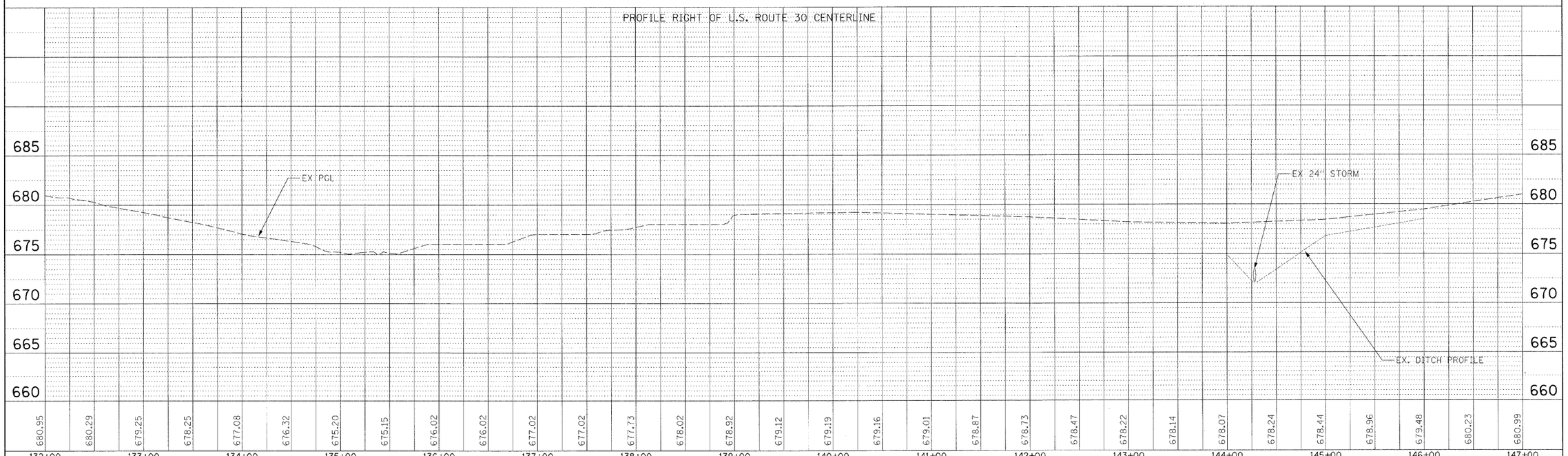
SEE FOLLOWING SHEET FOR ASSOCIATED DRAINAGE PROFILES.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DRAINAGE & UTILITIES**			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					353	13-1	WILL	67	20
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -							CONTRACT NO. 60I52		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: 1:50	SHEET NO. 1 OF 6 SHEETS	STA. 132+00.00 TO STA. 147+00.00			ILLINOIS FED. AID PROJECT		

PROFILE LEFT OF U.S. ROUTE 30 CENTERLINE



PROFILE RIGHT OF U.S. ROUTE 30 CENTERLINE



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
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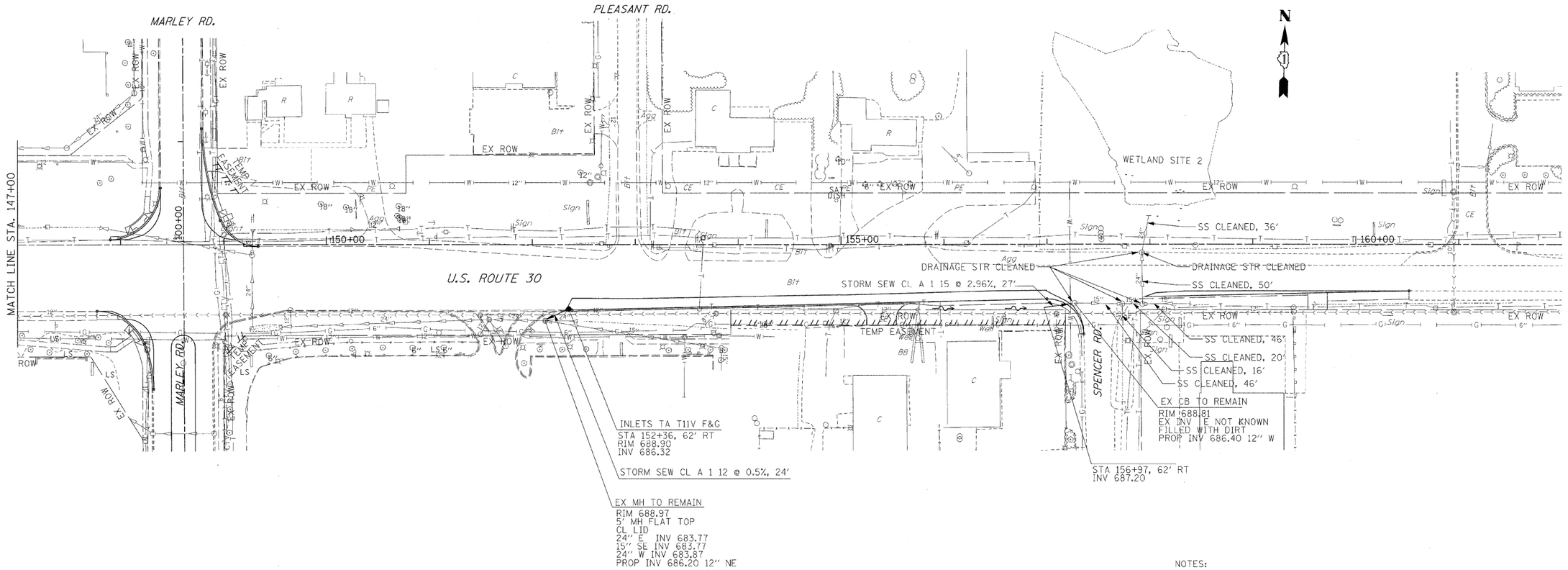
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES

SCALE: 1:50 | SHEET NO. 2 OF 6 SHEETS | STA. 132+00.00 TO STA. 147+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	21
		CONTRACT NO. 60I52		
	ILLINOIS FED. AID PROJECT			



SEE FOLLOWING SHEET FOR ASSOCIATED DRAINAGE PROFILES.

NOTES:

1. ALL CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE DRILLED, COST OF THE CONNECTION SHALL BE CONSIDERED AS INCLUDED IN THE INSTALLATION OF THE APRIOPRATE STORM SEWER.
2. OFFSETS TO STRUCTURES ARE GIVEN AS FOLLOWS:
   - LOCATED IN CURB LINE - OFFSET TO EDGE OF PAVEMENT
   - LOCATED IN GRASS - OFFSET TO CENTER OF STRUCTURE
   - LOCATED IN PAVEMENT - OFFSET TO FUTURE EDGE OF PAVEMENT
   - FES - OFFSET TO END OF STORM SEWER

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

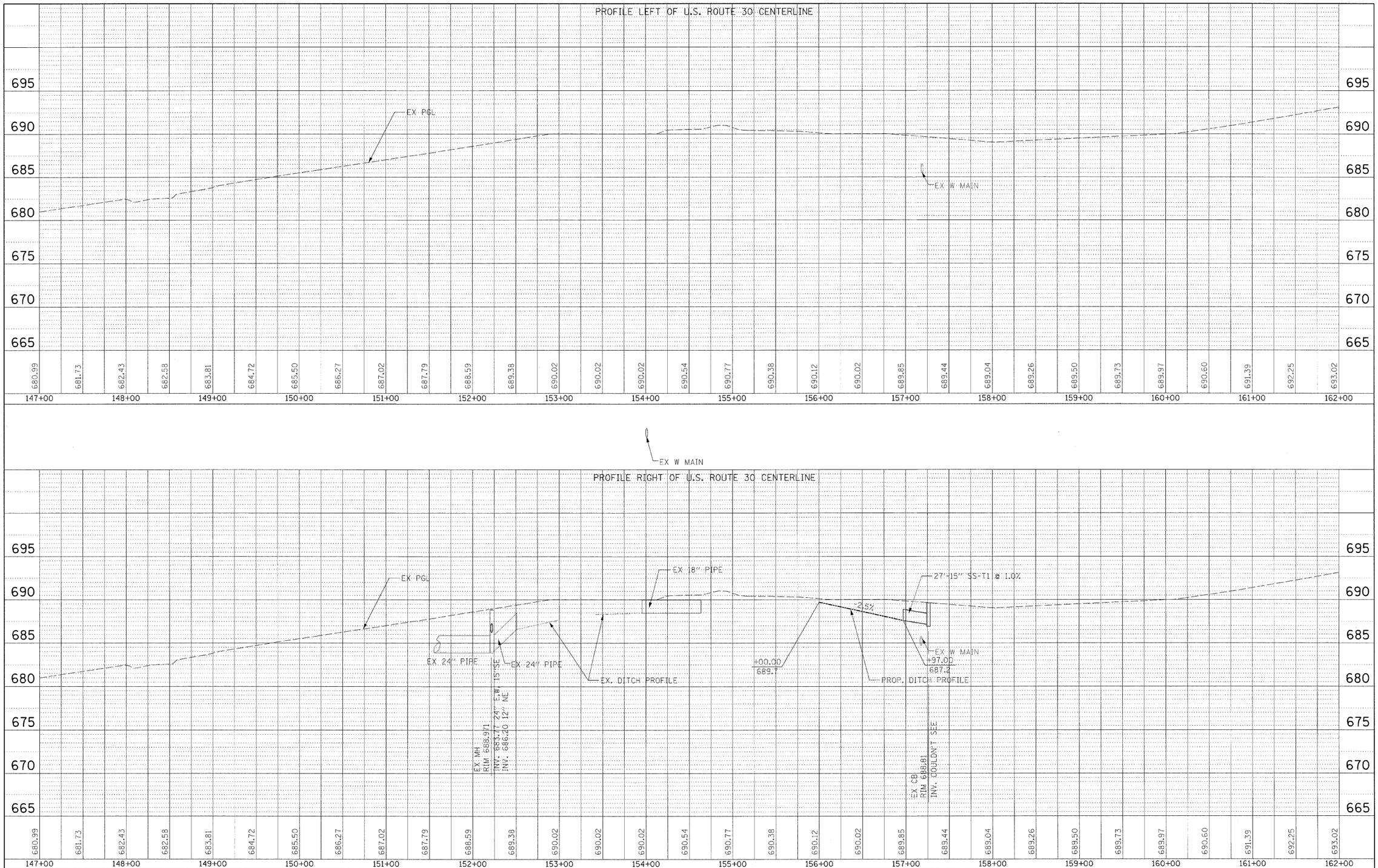
DRAINAGE & UTILITIES

SCALE: 1:50 | SHEET NO. 3 OF 6 SHEETS | STA. 147+00.00 TO STA. 162+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	22
		CONTRACT NO. 60I52		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
DRAWN / CHECKED
R.O.W. CHECKED
NOTE BOOK
CADD FILE NAME
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN / CHECKED
R.O.W. CHECKED
NOTE BOOK
CADD FILE NAME
NO.
STRUCTURE NO(S).(IF ANY)
BY
DATE



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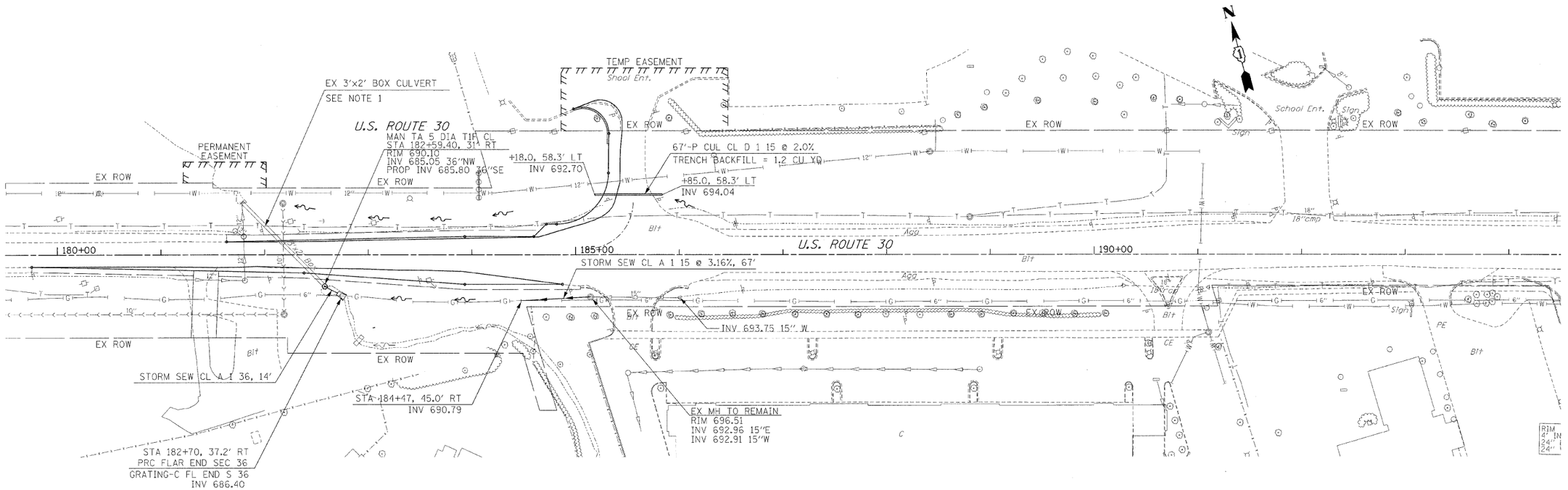
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES

SCALE: 1:50 | SHEET NO. 4 OF 6 SHEETS | STA. 147+00.00 TO STA. 162+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	23
		CONTRACT NO. 60I52		
		ILLINOIS FED. AID PROJECT		



SEE FOLLOWING SHEET FOR ASSOCIATED DRAINAGE PROFILES.

NOTES:

1. EXISTING 3'x2' BOX CULVERT WAS EXTENDED WITH 36" PIPE TO BE VERIFIED IN THE FIELD.
2. OFFSETS TO STRUCTURES ARE GIVEN AS FOLLOWS:
   - LOCATED IN CURB LINE - OFFSET TO EDGE OF PAVEMENT
   - LOCATED IN GRASS - OFFSET TO CENTER OF STRUCTURE
   - LOCATED IN PAVEMENT - OFFSET TO FUTURE EDGE OF PAVEMENT
   - FES - OFFSET TO END OF STORM SEWER
3. ALL CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE DRILLED, COST OF THE CONNECTION SHALL BE CONSIDERED AS INCLUDED IN THE INSTALLATION OF THE APRIOPRATE STORM SEWER.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

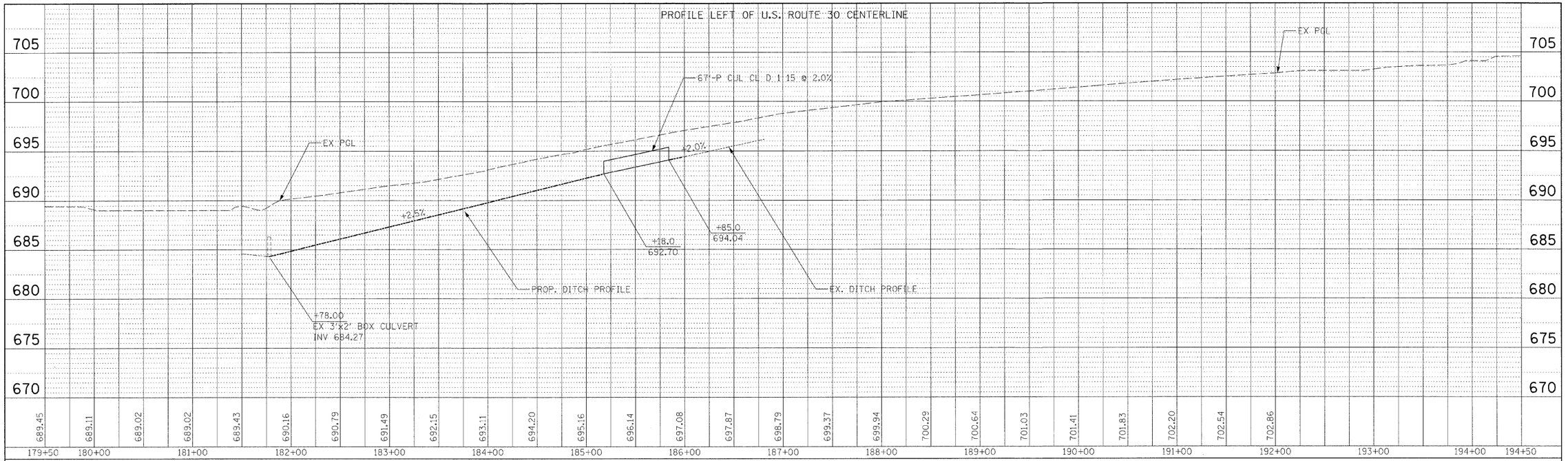
DRAINAGE & UTILITIES

SCALE: 1:50 | SHEET NO. 5 OF 6 SHEETS | STA. 179+50.00 TO STA. 194+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	24
		CONTRACT NO. 60152		
	ILLINOIS	FED. AID PROJECT		

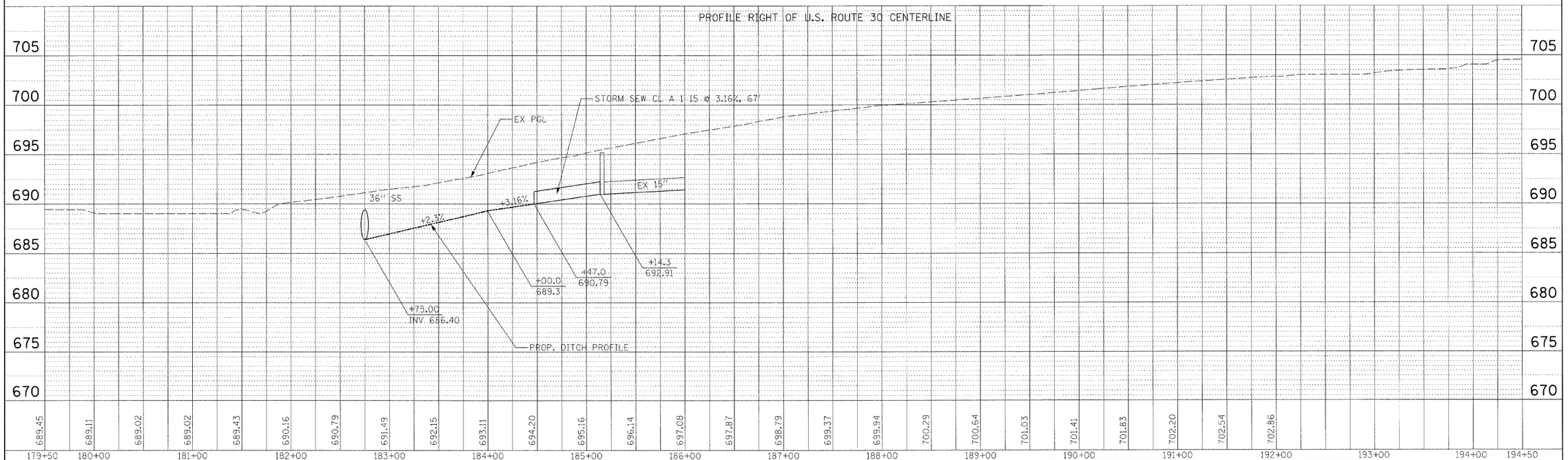
PLAN

NOTE BOOK	SURVEYED	BY	DATE
NO.	PLOTTED		
	QUANTITIES CHECKED		
	PLANS CHECKED		
	PT. OF WAY CHECKED		
	CADD FILE NAME		



PROFILE

NOTE BOOK	SURVEYED	BY	DATE
NO.	PLOTTED		
	QUANTITIES CHECKED		
	PLANS CHECKED		
	STRUCTURE NOTATNS CHKD		



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		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

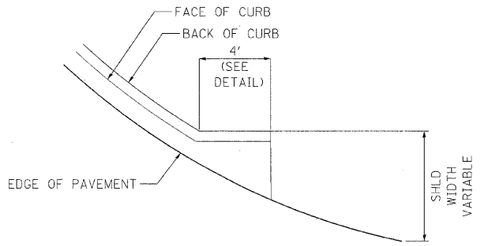
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITIES

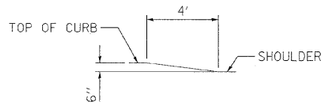
SCALE: 1:50 | SHEET NO. 6 OF 6 SHEETS | STA. 179+50.00 TO STA. 194+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	25
%		CONTRACT NO. 60152		
	ILLINOIS FED. AID PROJECT			

☆ PAGE 26 NOT USED ☆



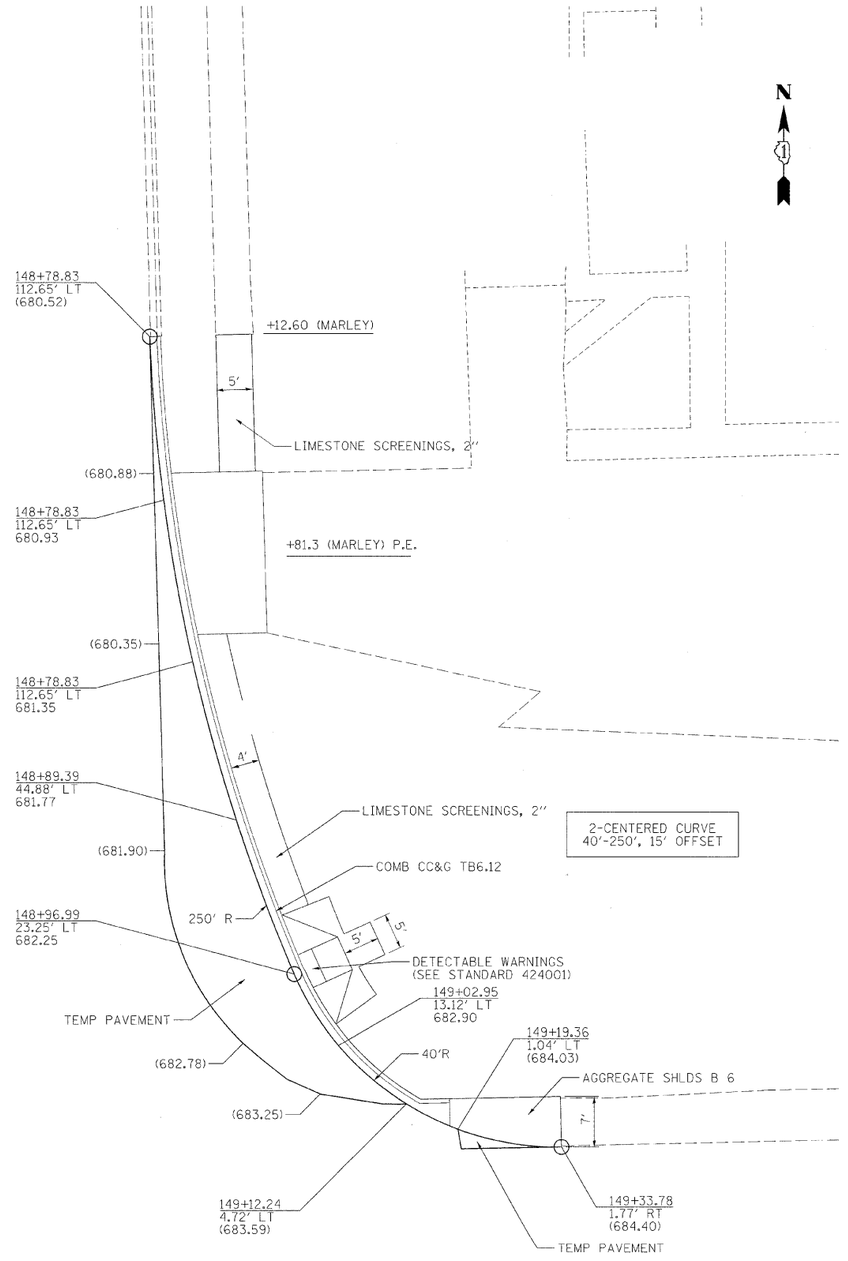
CURB TRANSITION INTO SHOULDER



DETAIL OF CURB HEIGHT TRANSITION

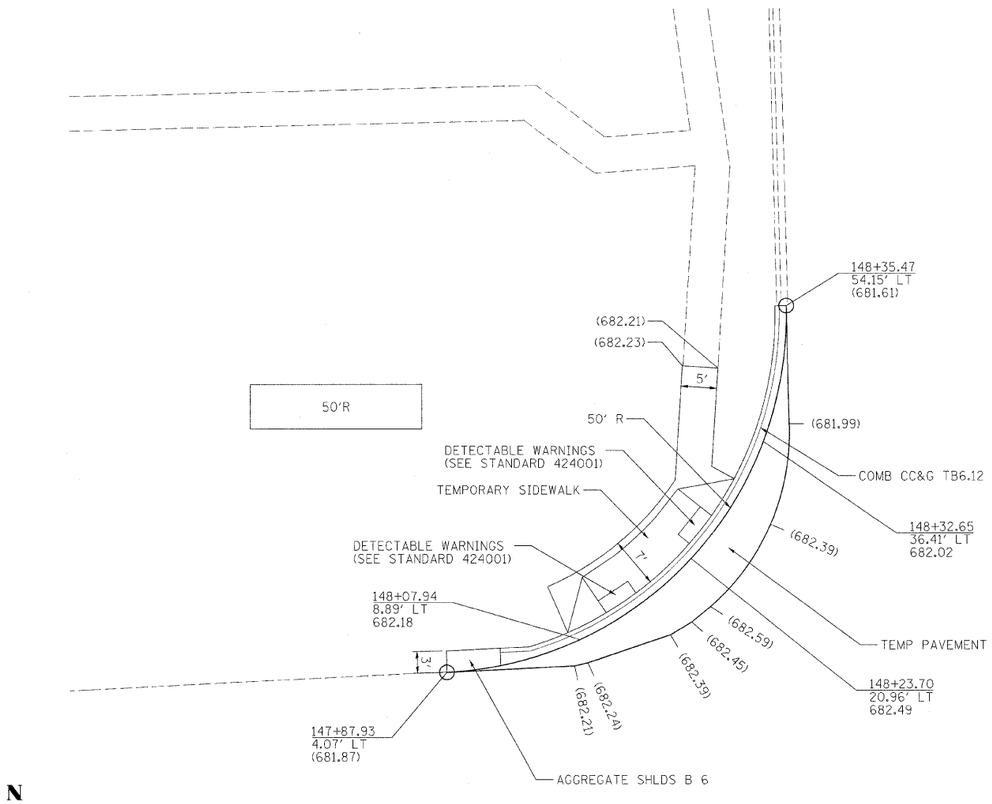
NOTES:

1. EXISTING ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THESE ELEVATIONS SHALL BE PROVIDED TO THE ENGINEER, WHO SHALL VERIFY ALL PROPOSED ELEVATIONS PRIOR TO CONSTRUCTION.
2. ALL STATION AND OFFSETS ARE TO PROPOSED US RTE 30 ALIGNMENT UNLESS NOTED OTHERWISE.
3. ELEVATIONS IN ( ) INDICATE EXISTING ELEVATIONS TO BE MATCHED.

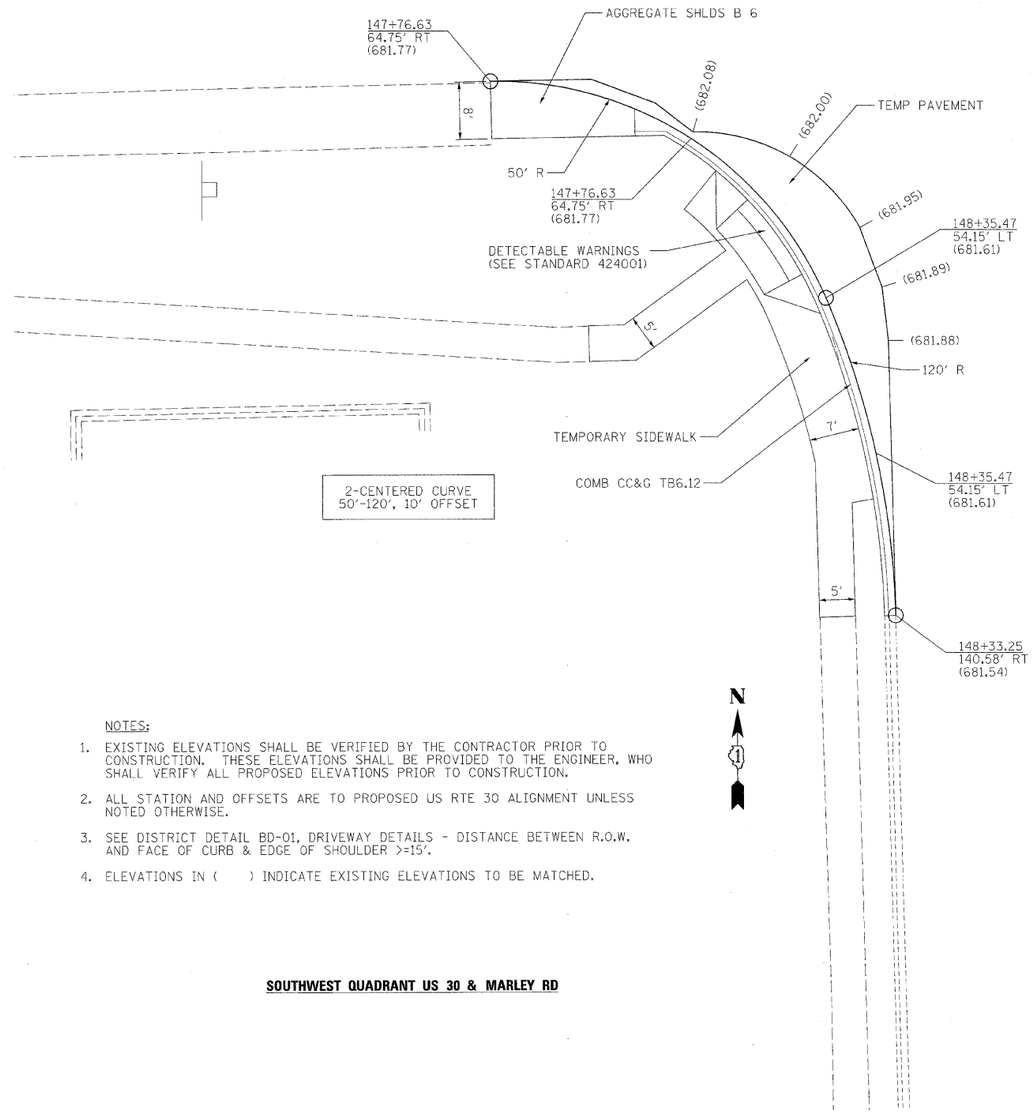


NORTHEAST QUADRANT US 30 & MARLEY RD

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERSECTION DETAILS**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			353	13-I	WILL	67	27
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 60I52		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: 1 : 10 SHEET NO. 1 OF 2 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



NORTHWEST QUADRANT US 30 & MARLEY RD



SOUTHWEST QUADRANT US 30 & MARLEY RD

NOTES:

1. EXISTING ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THESE ELEVATIONS SHALL BE PROVIDED TO THE ENGINEER, WHO SHALL VERIFY ALL PROPOSED ELEVATIONS PRIOR TO CONSTRUCTION.
2. ALL STATION AND OFFSETS ARE TO PROPOSED US RTE 30 ALIGNMENT UNLESS NOTED OTHERWISE.
3. SEE DISTRICT DETAIL BD-01, DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >=15'.
4. ELEVATIONS IN ( ) INDICATE EXISTING ELEVATIONS TO BE MATCHED.

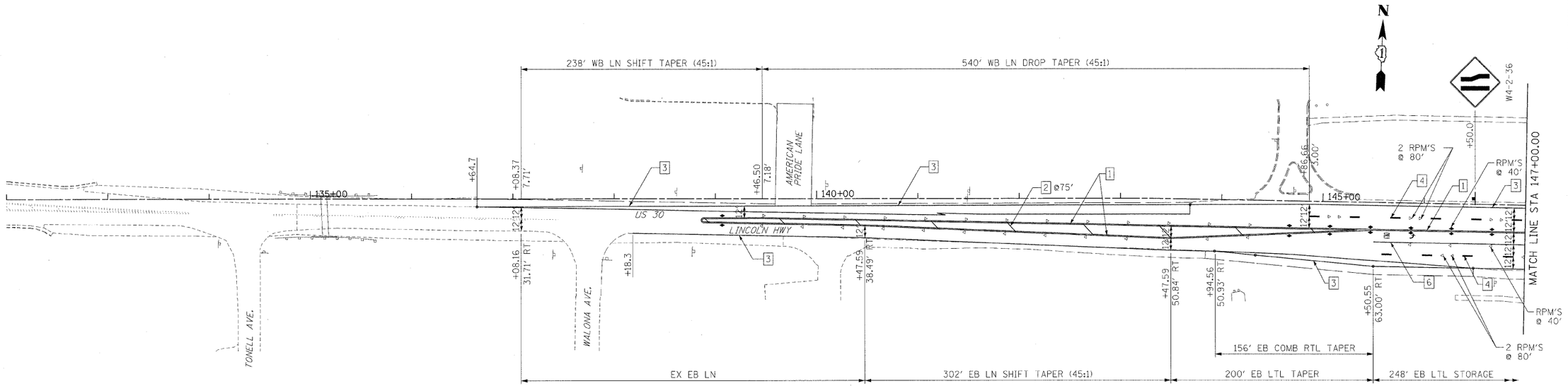
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS

SCALE: 1 : 10 | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	28
		CONTRACT NO. 60I52		
	ILLINOIS FED. AID PROJECT			



PAVEMENT MARKING LEGEND

- LETTERS AND SYMBOLS
- STOP LINE, 24" WHITE
- RAISED PAVEMENT MARKER (RPM), ONE-WAY CRYSTAL
- RAISED PAVEMENT MARKER (RPM), ONE-WAY AMBER
- RAISED PAVEMENT MARKER (RPM), TWO-WAY AMBER

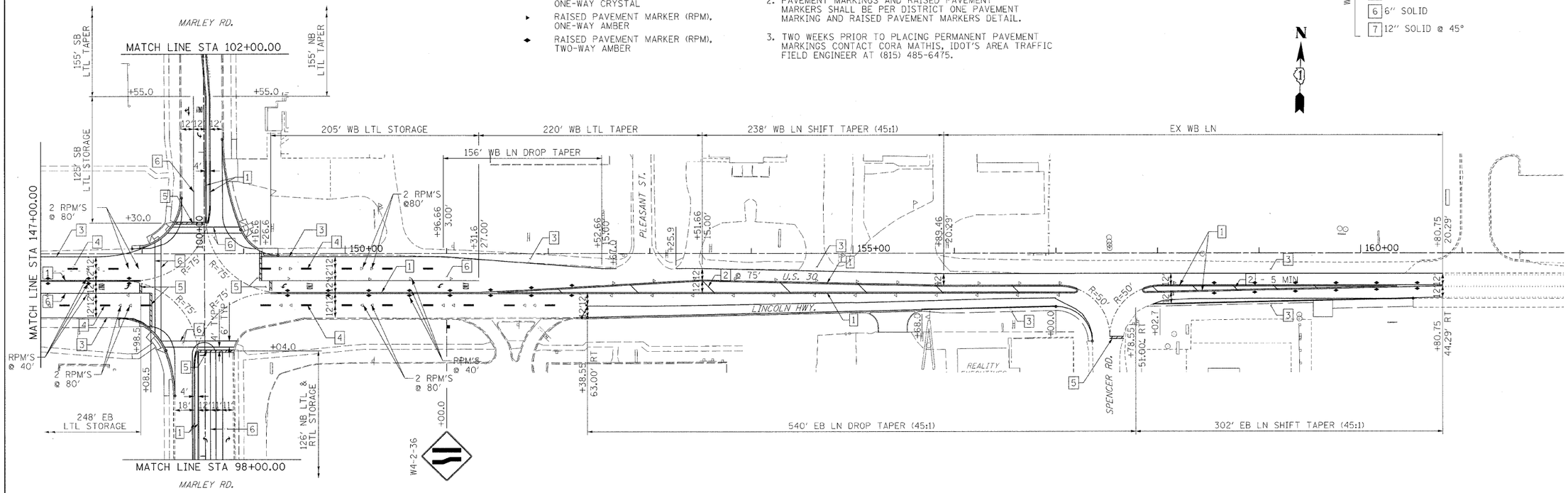
PAVEMENT MARKING NOTES

1. THERMOPLASTIC PAVEMENT MARKINGS SHALL BE APPLIED ON HOT-MIX ASPHALT PAVEMENT.
2. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS SHALL BE PER DISTRICT ONE PAVEMENT MARKING AND RAISED PAVEMENT MARKERS DETAIL.
3. TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS CONTACT CORA MATHIS, IDOT'S AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475.

PAVEMENT MARKING KEY

YELLOW
- [1] 4" DOUBLE
- [2] 12" DIAGONALS @ 45°

WHITE
- [3] 4" SOLID
- [4] 4"- 30' SKIP/10' DASH
- [5] 24" STOP BAR
- [6] 6" SOLID
- [7] 12" SOLID @ 45°



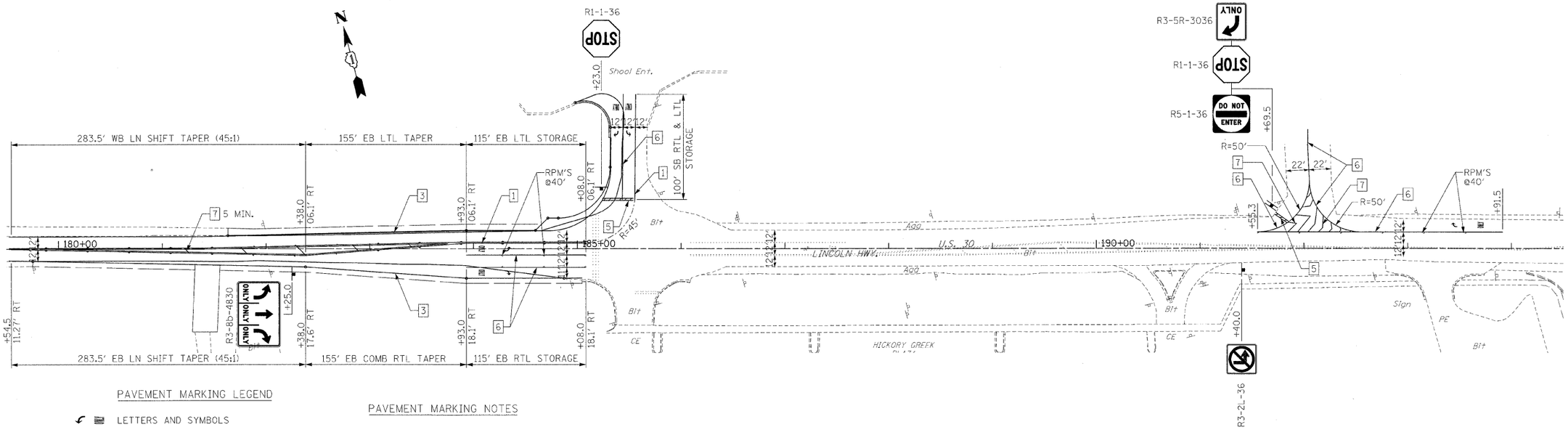
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN

SCALE: 1:50 | SHEET NO. 1 OF 2 SHEETS | STA. 132+00 TO STA. 162+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	29
		CONTRACT NO. 60I52		
	ILLINOIS FED. AID PROJECT			



PAVEMENT MARKING LEGEND

- LETTERS AND SYMBOLS
- STOP LINE, 24" WHITE
- RAISED PAVEMENT MARKER (RPM), ONE-WAY CRYSTAL
- RAISED PAVEMENT MARKER (RPM), ONE-WAY AMBER
- RAISED PAVEMENT MARKER (RPM), TWO-WAY AMBER

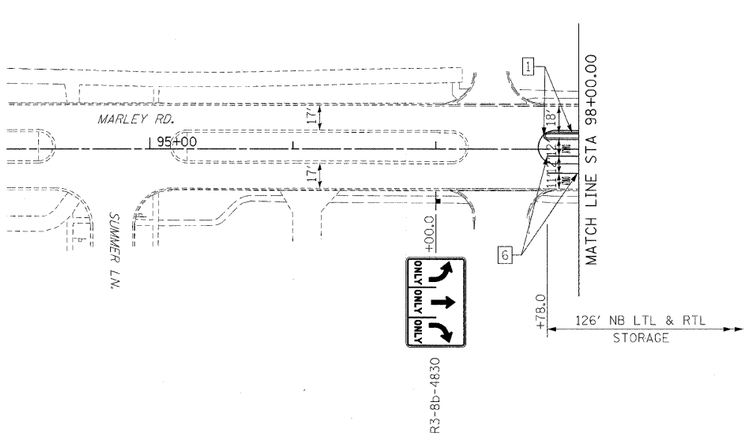
PAVEMENT MARKING NOTES

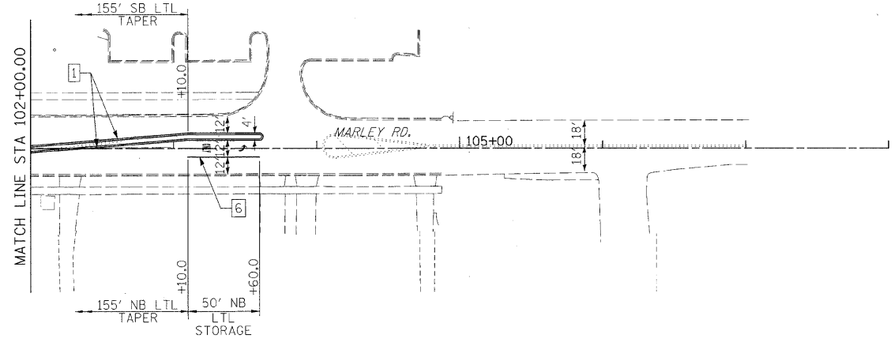
1. THERMOPLASTIC PAVEMENT MARKINGS SHALL BE APPLIED ON HOT-MIX ASPHALT PAVEMENT.
2. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS SHALL BE PER DISTRICT ONE PAVEMENT MARKING AND RAISED PAVEMENT MARKERS DETAIL.
3. TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS CONTACT CORA MATHIS, IDOT'S AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475.

PAVEMENT MARKING KEY

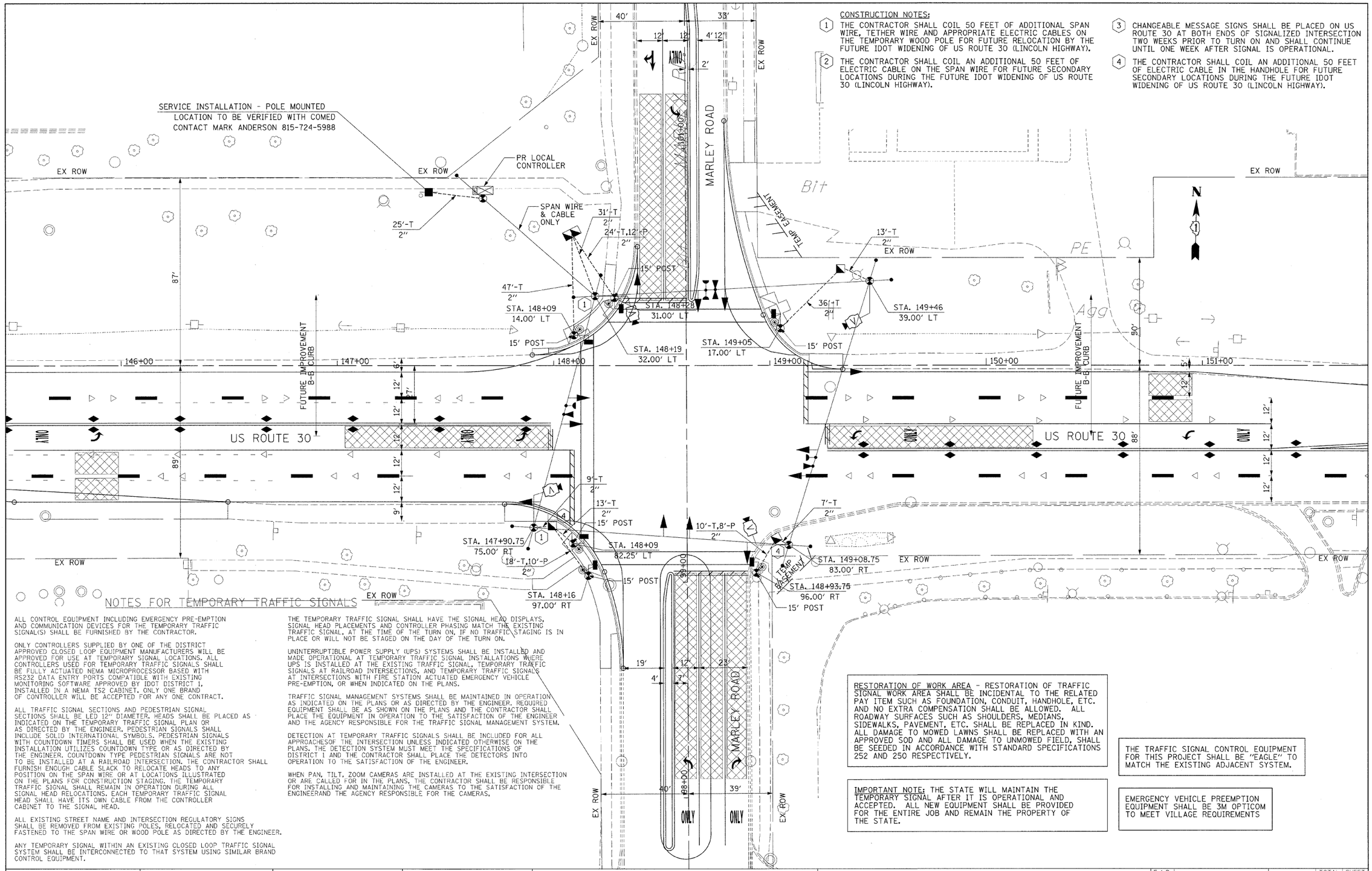
YELLOW
- 1 4" DOUBLE
- 2 12" DIAGONALS @ 45°

WHITE
- 3 4" SOLID
- 4 4"- 30' SKIP/10' DASH
- 5 24" STOP BAR
- 6 6" SOLID
- 7 12" SOLID @ 45°





FILE NAME =	USER NAME =	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING & SIGNING PLAN**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			353	13-I	WILL	67	30
	PLOT SCALE =	CHECKED -	REVISED -					CONTRACT NO. 60I52		
	PLOT DATE =	DATE -	REVISED -		SCALE: 1:50 / SHEET NO. 2 OF 2 SHEETS / STA. 179+50 TO STA. 194+50			ILLINOIS FED. AID PROJECT		



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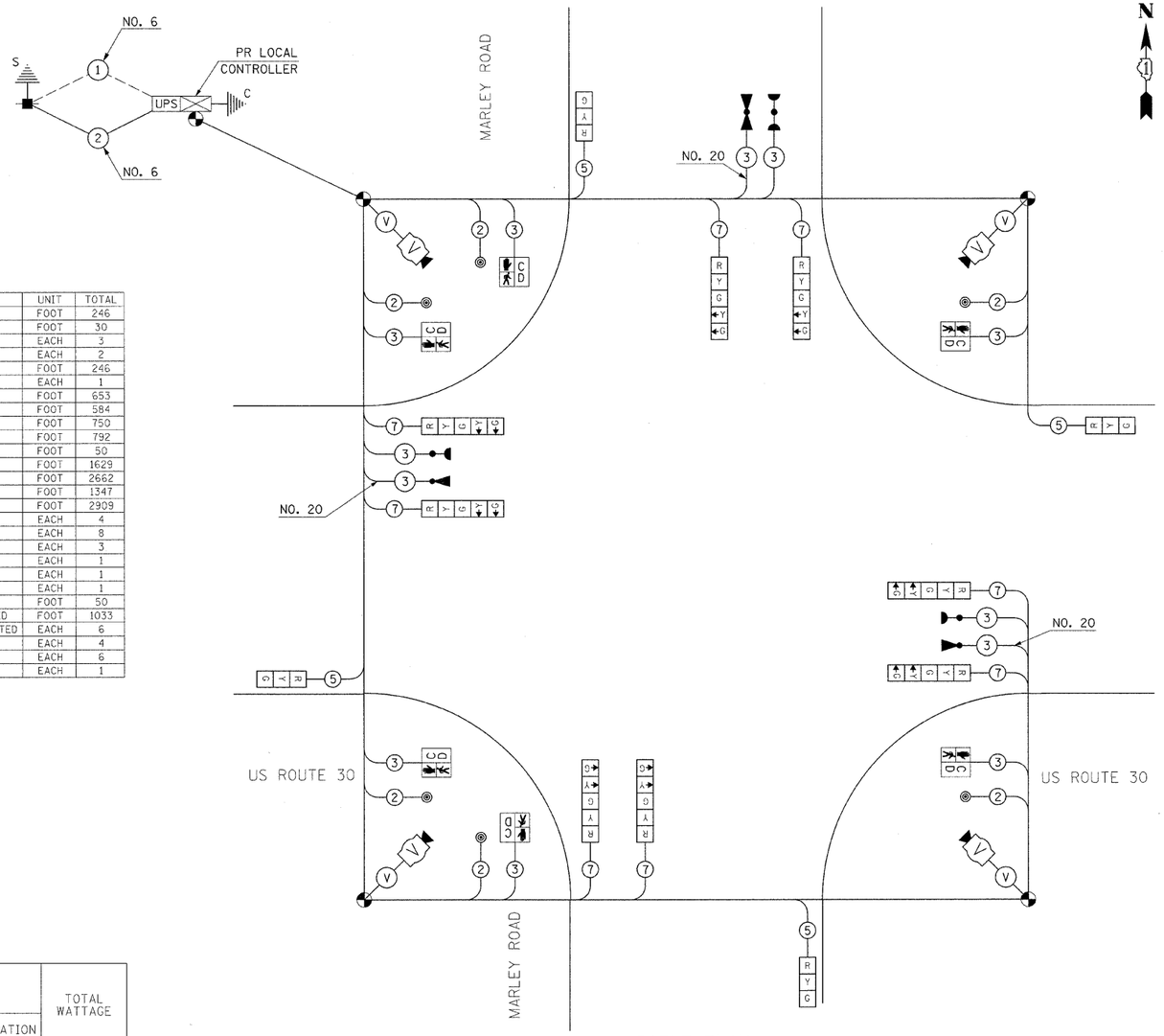
	DRAWN - -	REVISED - -	
PLOT SCALE = @SCALE@	CHECKED - -	REVISED - -	
PLOT DATE = @DATE@	DATE - -	REVISED - -	

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
FEDERAL AID STATE HIGHWAY

TRAFFIC SIGNAL PLAN
US ROUTE 30 & MARLEY RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	31
		CONTRACT NO. 60152		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CABLE PLAN

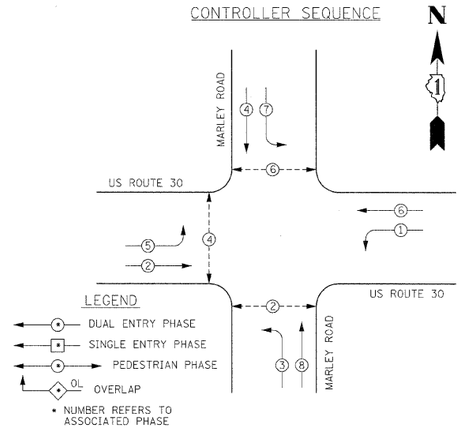
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	TOTAL
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	246
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	30
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	246
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
SPAN WIRE	FOOT	653
TETHER WIRE	FOOT	584
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	750
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	792
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	50
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 2C	FOOT	1629
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	2662
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	1347
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	2909
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	8
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	50
ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	1033
PEDESTRIAN COUNTDOWN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	6
TRAFFIC SIGNAL WOOD POLE, 45 FT, CLASS 5	EACH	4
TRAFFIC SIGNAL WOOD POLE, 15 FT, CLASS 5	EACH	6
VIDEO DETECTION SYSTEM	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE x INCAND.	WATTAGE LED	x %OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19.2
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25		
VIDEO SYSTEM	1	150		1.00	150
FLASHER					
ENERGY COSTS TO:				TOTAL =	641.2

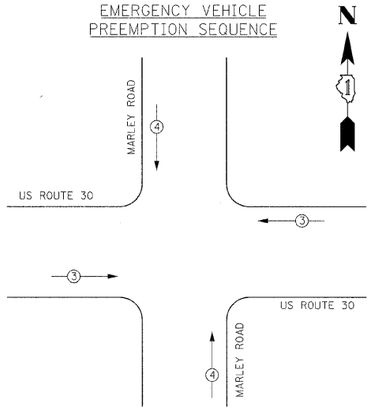
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: MARK ANDERSON
PHONE: (815) 724-5988
COMPANY: COM ED

CONTROLLER SEQUENCE



SPAN WIRE PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

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

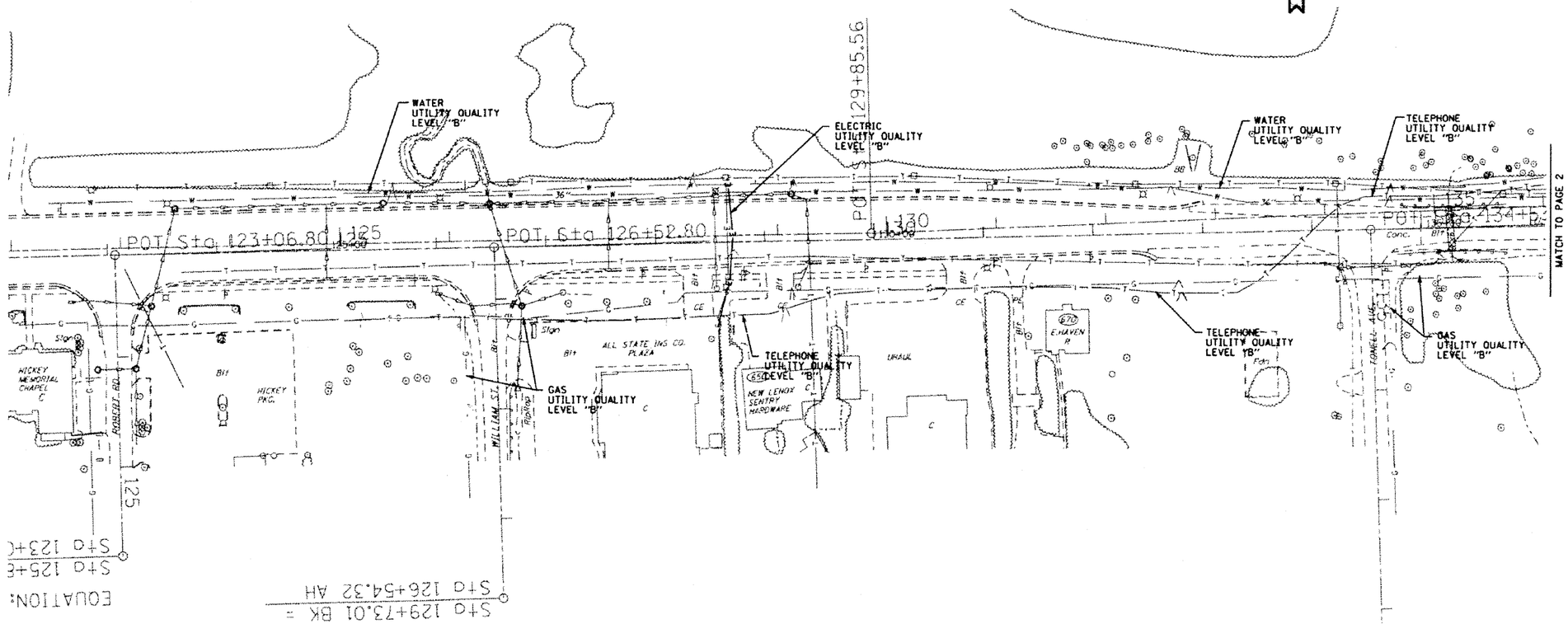
USER NAME =	DESIGNED - -	REVISED - -	**ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID STATE HIGHWAY**
	DRAWN - -	REVISED - -	
PLOT SCALE =	CHECKED - -	REVISED - -	
PLOT DATE =	DATE - -	REVISED - -	

TRAFFIC SIGNAL PLAN
US ROUTE 30 & MARLEY RD

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	32
		CONTRACT NO. 60152		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WILL	67	33
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

TBE GROUP, INC.
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL • PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
Checked by:
PAGE 1 OF 25
Utility 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. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed during the period 10-13-04 through 04-21-05. Changes to utilities after these dates may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

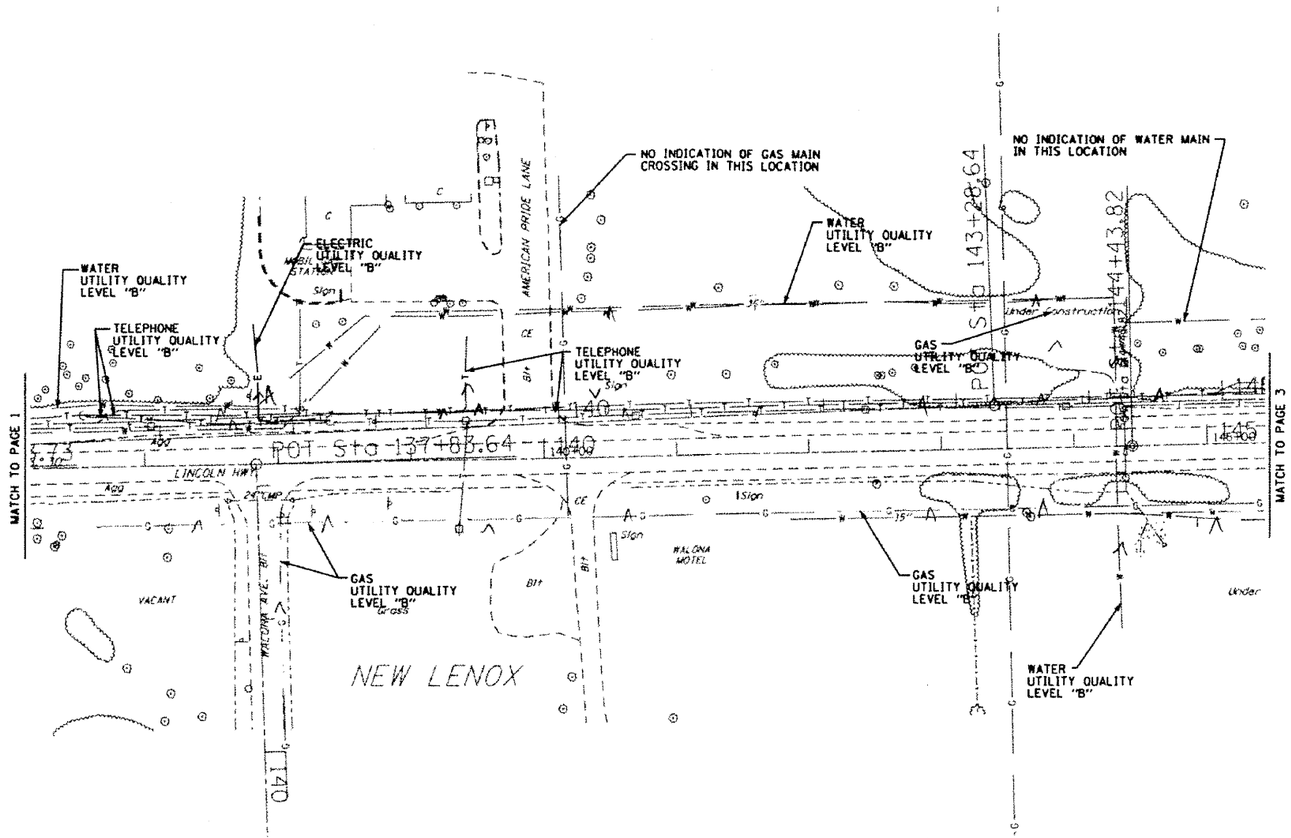
The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WILL	67	34
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
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PAGE 2 OF 25
Utility Quality Level "B" : Designating

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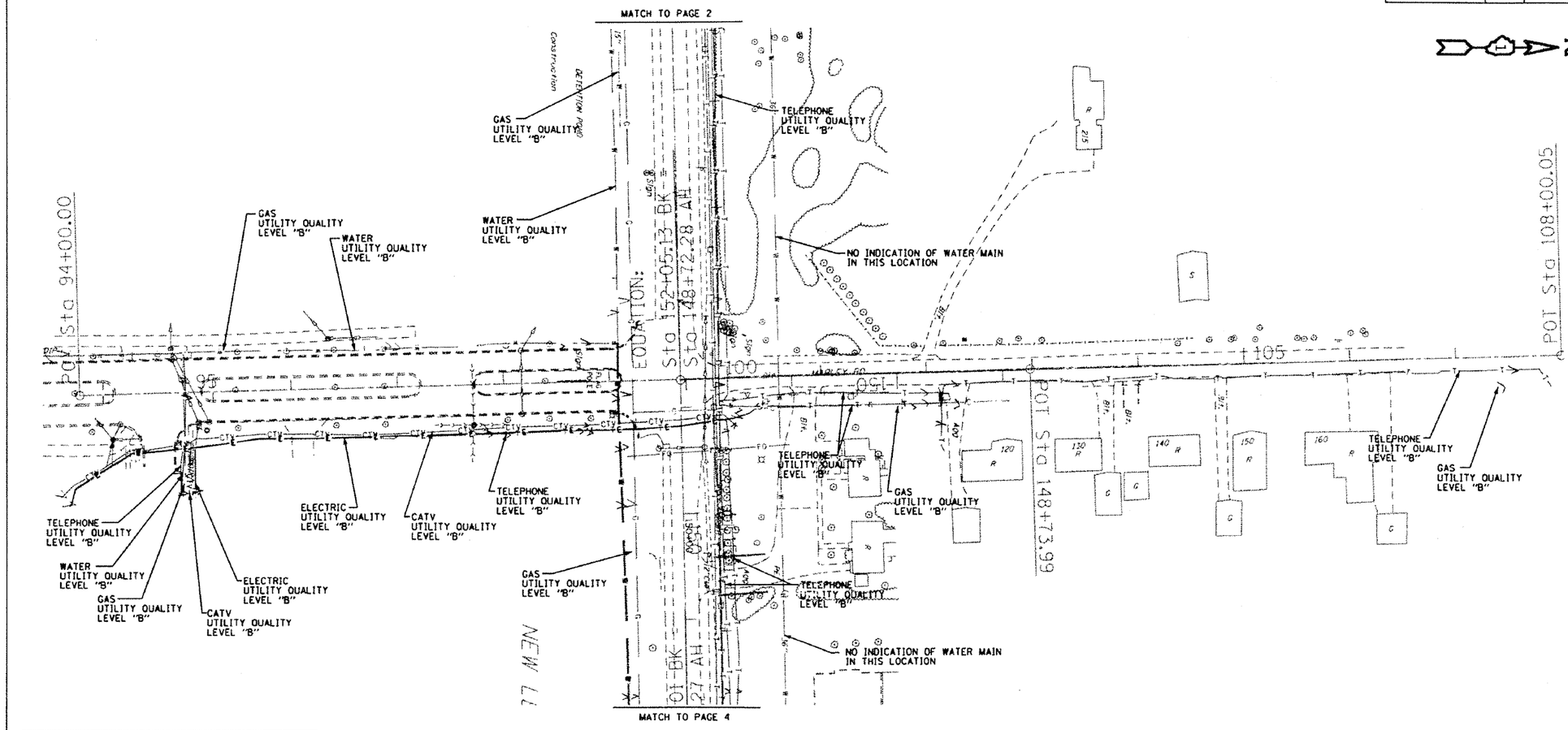
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WILL	67	35
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

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TBE GROUP, INC.
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IL09500213, 222, 233
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PAGE 3 OF 25
Utility Quality Level "B" : Designating

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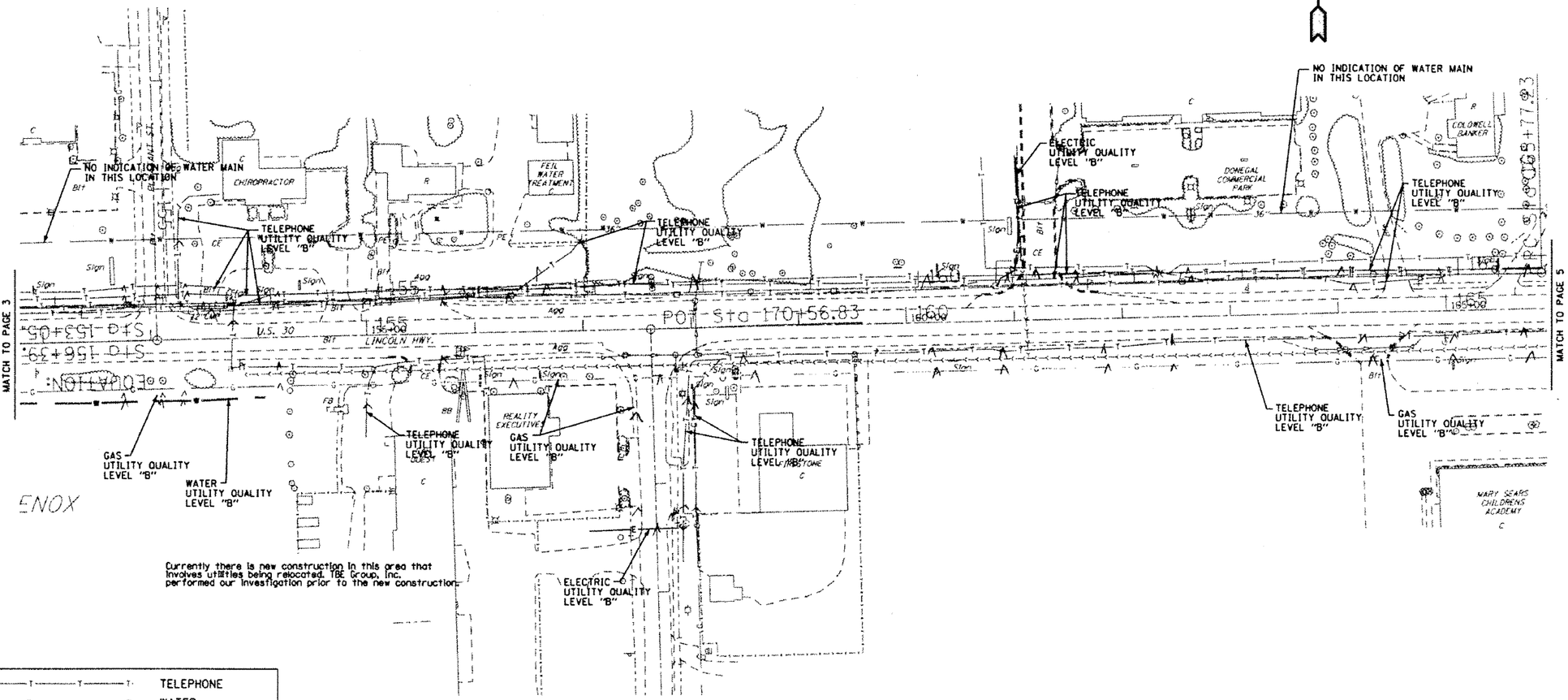
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WIL	67	36
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

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TBE GROUP, INC.
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL • PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
Checked by: Sandra Flores PE
PAGE 4 OF 25
Utility Quality Level "B" : Designating

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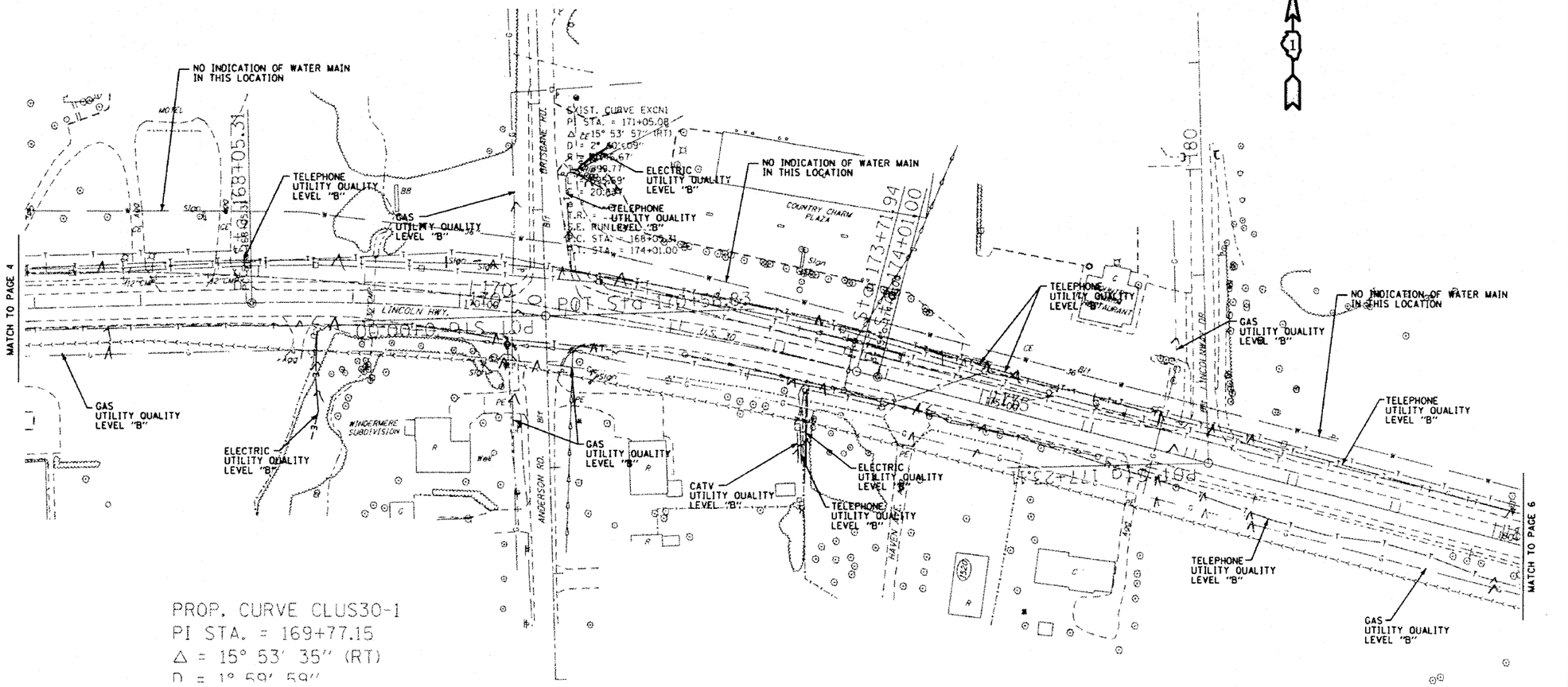
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WIL	67	37
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

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TBE GROUP, INC.
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PAGE 5 OF 25
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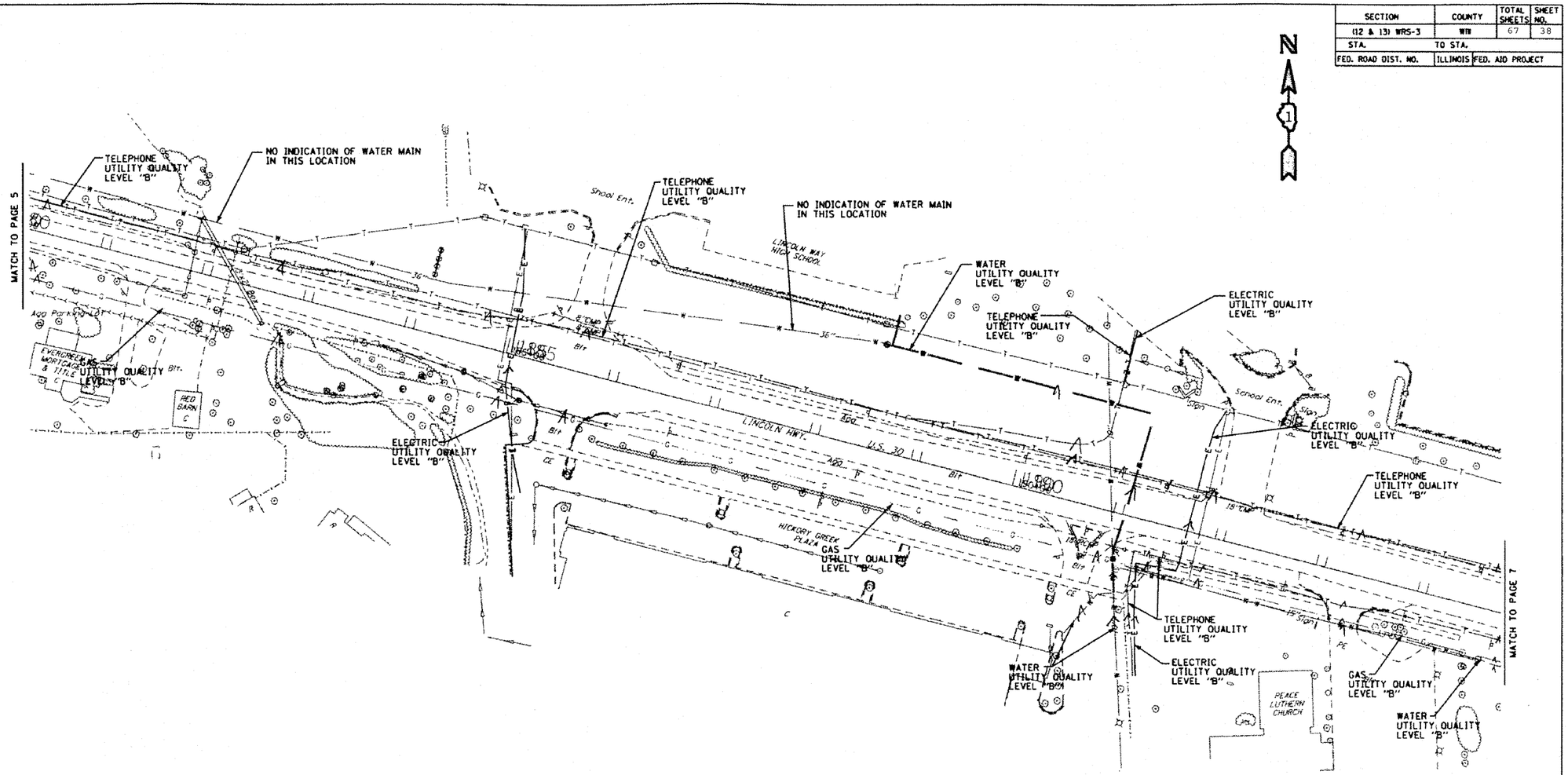
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WIL	67	38
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
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TBE GROUP

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
Checked by: Sarah Arnesto
PAGE 6 OF 25
Utility Quality Level "B" : Designating

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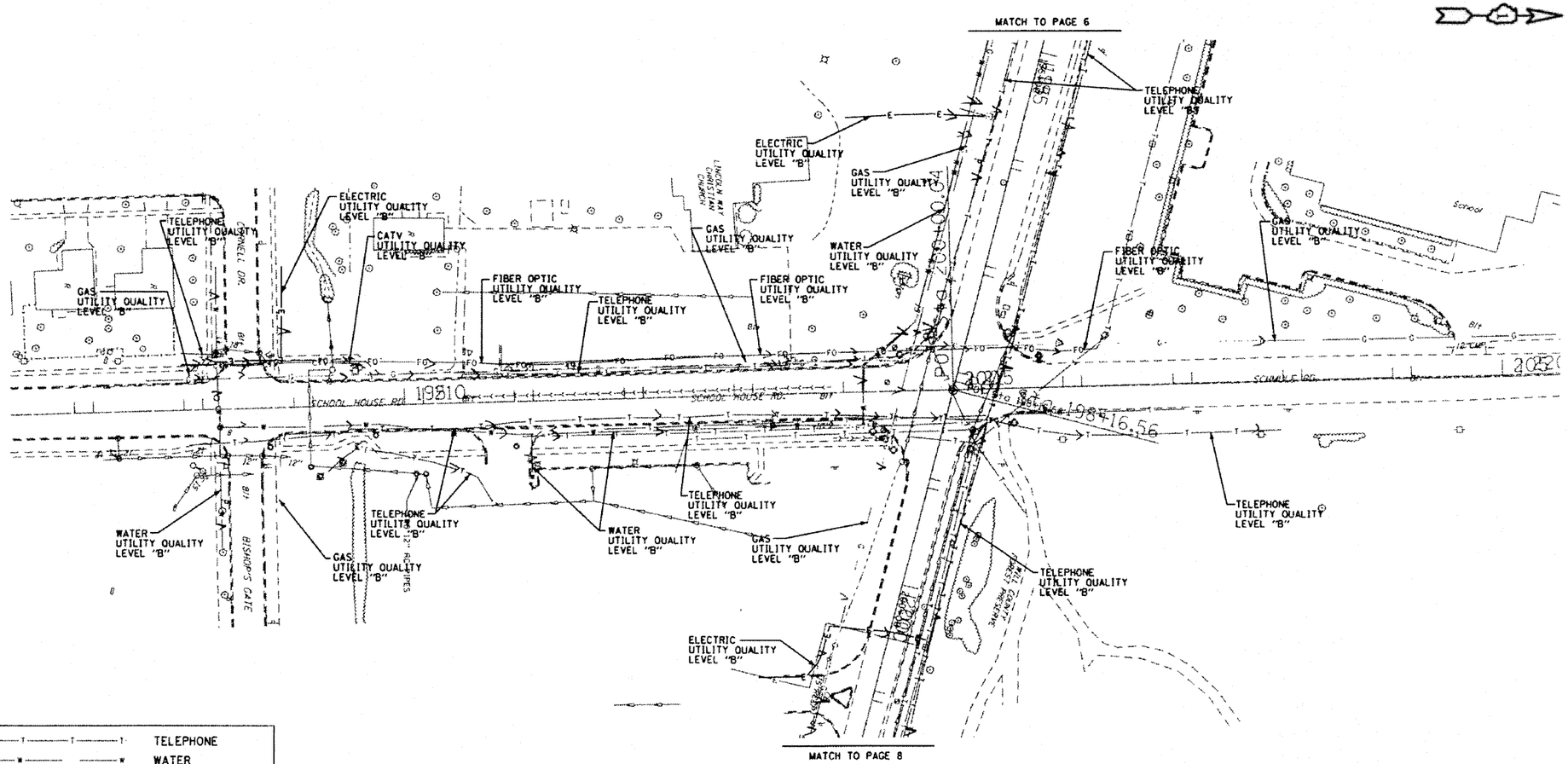
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4

DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WILL	67	39
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

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TBE GROUP, INC.
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL • PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
Checked by: [illegible]
PAGE 7 OF 25
Utility Quality Level "B" : Designating

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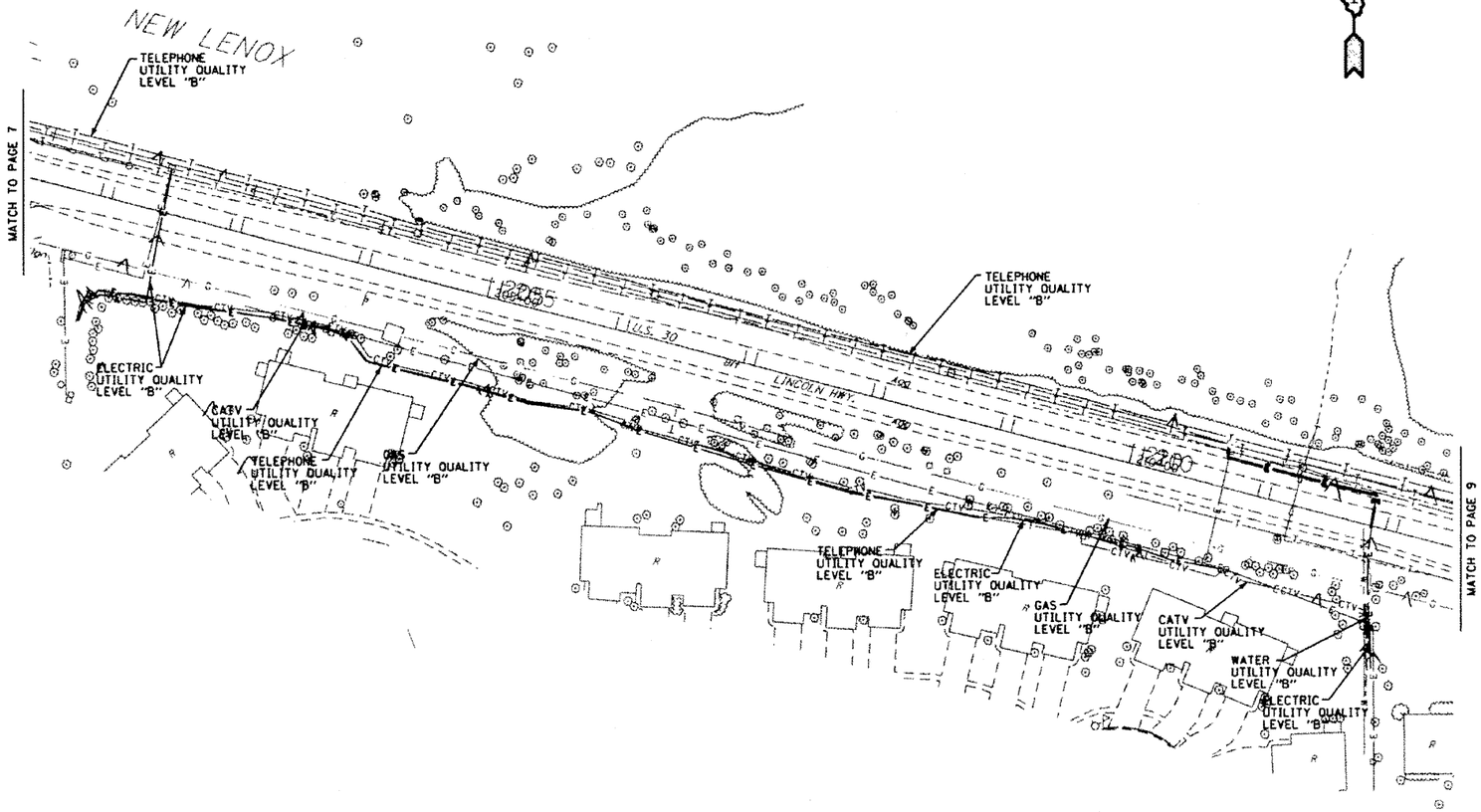
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WIN	67	40
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.) to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

TBE GROUP, INC.
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL • PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
Checked by: Sandra Jenear
PAGE 8 OF 25
Utility 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. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed during the period 10-13-04 through 04-21-05. Changes to utilities after these dates may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

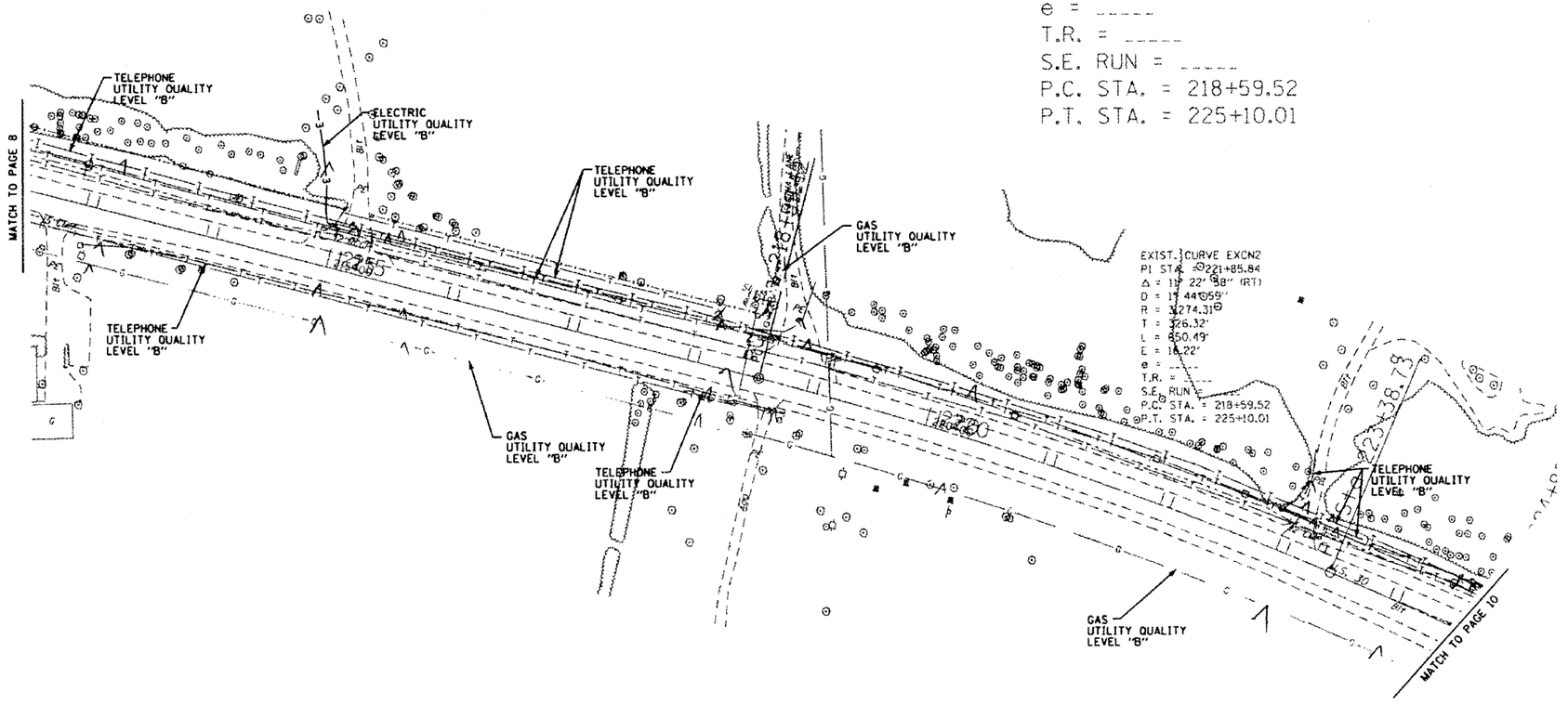
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
Will County
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(12 & 13) WRS-3	WILL	67	41
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

R = 3,274.31'
T = 326.32'
L = 650.49'
E = 16.22'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 218+59.52
P.T. STA. = 225+10.01



T T T	TELEPHONE
W W	WATER
	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E E	ELECTRIC

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.) to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

TBE GROUP, INC.
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL • PLANNING • UTILITY ENGINEERING/LOCATING

IL09500213, 222, 233
Checked by: Sandra Jones 05
PAGE 9 OF 25
Utility 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. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed during the period 10-13-04 through 04-21-05. Changes to utilities after these dates may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
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REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
US RT. 30 from William Street to Wolf Road and US RT. 30 from Wolf Road to US RT. 45 in Frankfort, Illinois-
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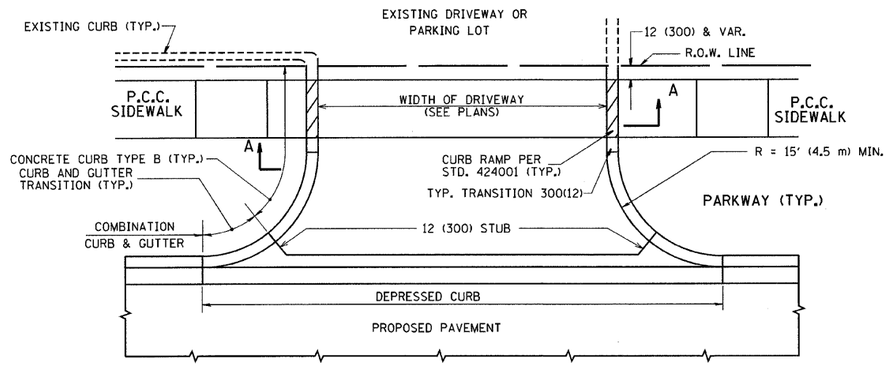
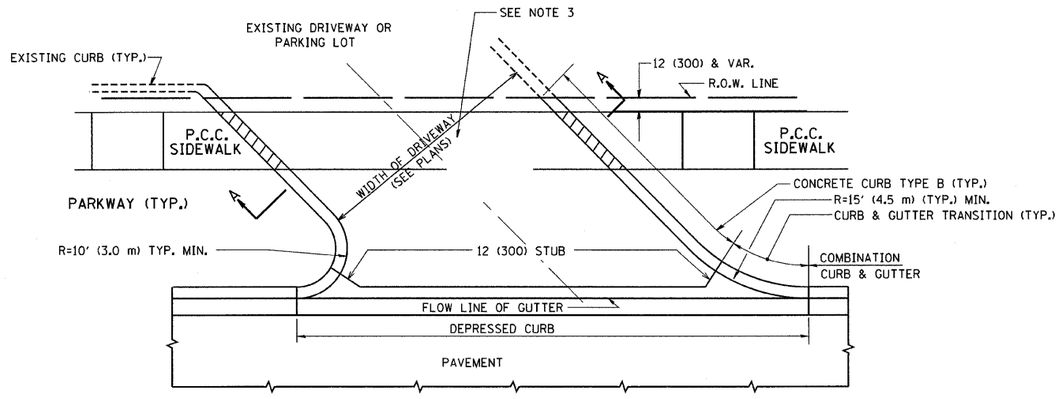
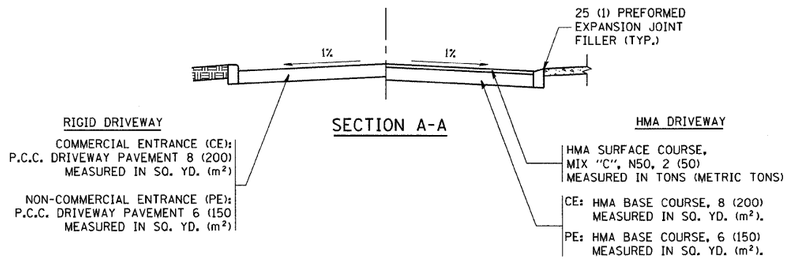
Contract No: 62479
Section No.: (12 & 13) WRS-4
DRAWN BY - KLC
SCALE : 1" = 50'

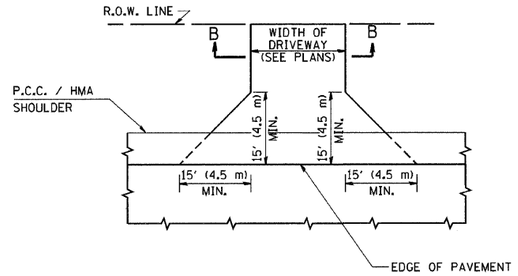


WITH CONCRETE CURB, TYPE B

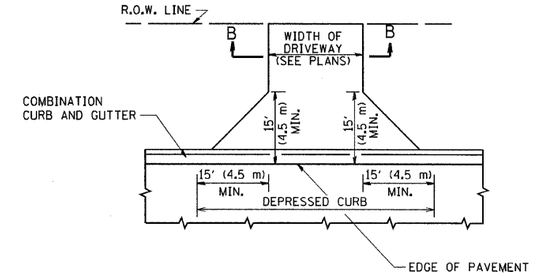


WITH CONCRETE CURB, TYPE B

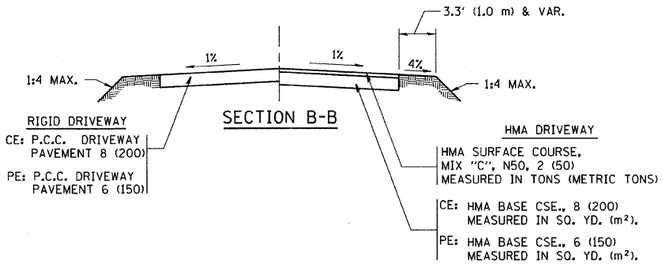




ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE A 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

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

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

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

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

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

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

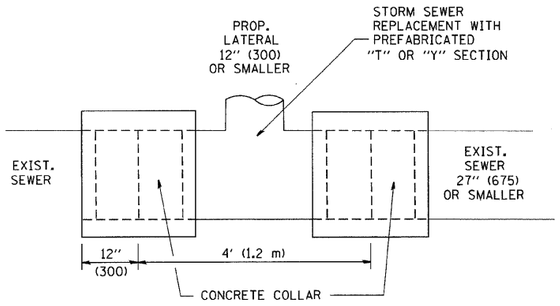
FILE NAME = W:\diststd\22x34\bd01.dgn	USER NAME = gaglionobt	DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97
		DRAWN -	REVISED - M. GOMEZ 04-06-01
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - P. LaFLUER 04-15-03
	PLOT DATE = 1/4/2008	DATE - 11-04-95	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

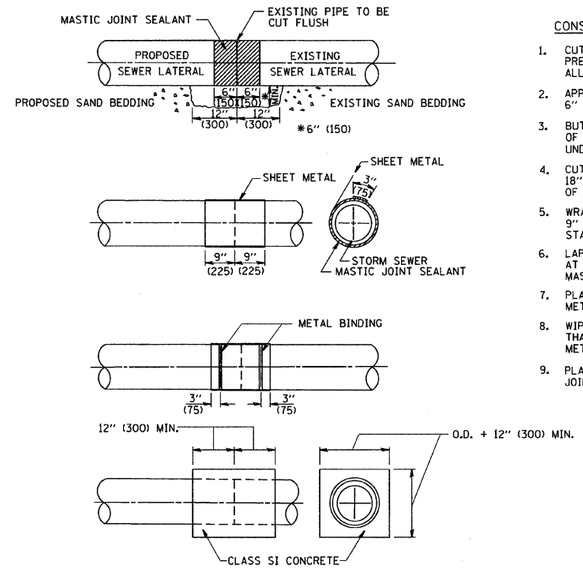
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	42
	BD0156-07 (BD-01)	CONTRACT NO. 60152		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

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

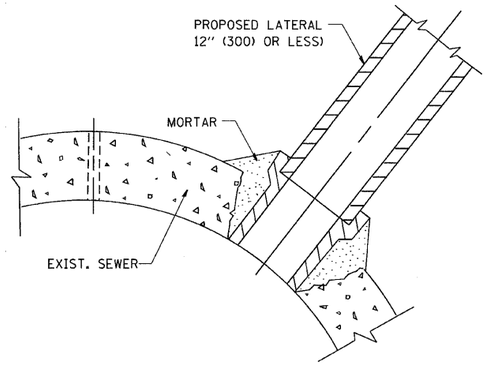


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

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

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

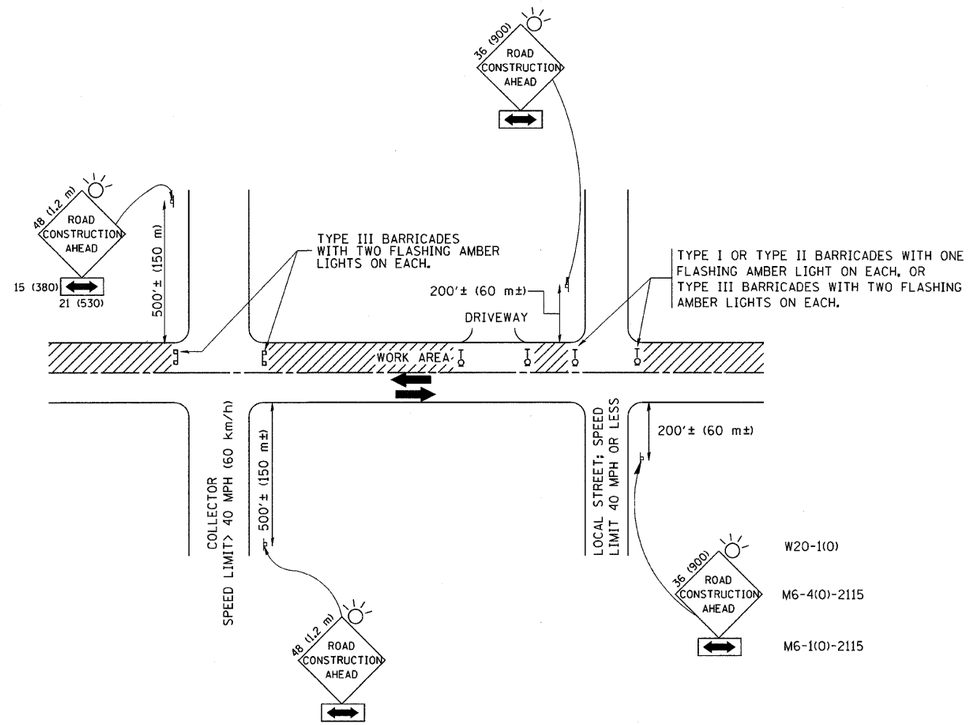
FILE NAME = W:\diststd\22x34\bd07.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
		DRAWN -	REVISED - R. SHAH 09-09-94
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	43
	BD500-01 (BD-7)	CONTRACT NO. 60I52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

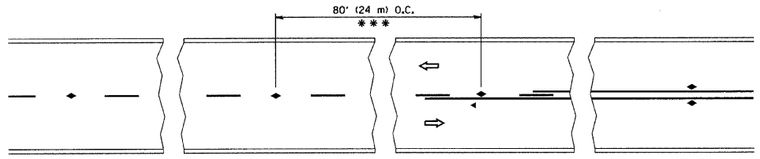
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

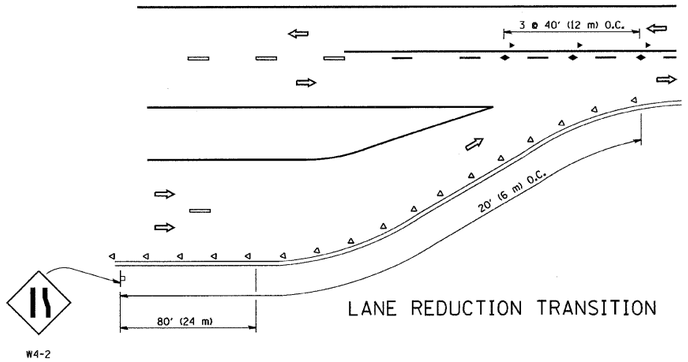
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	44
	TC-10	CONTRACT NO. 60152		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

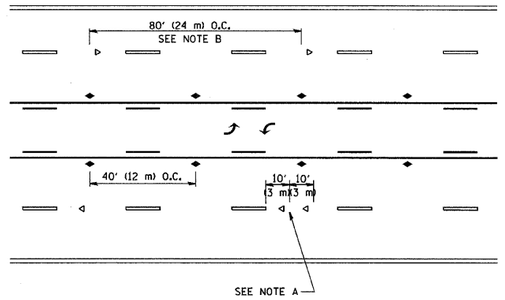


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

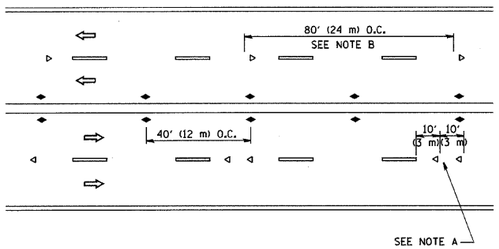
TWO-LANE/TWO-WAY



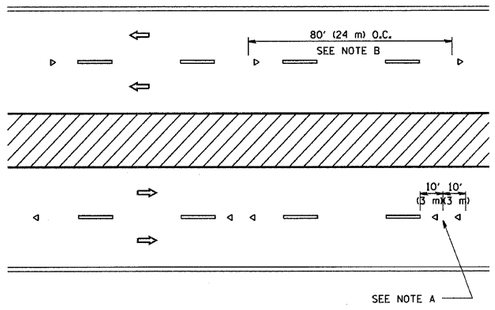
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

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

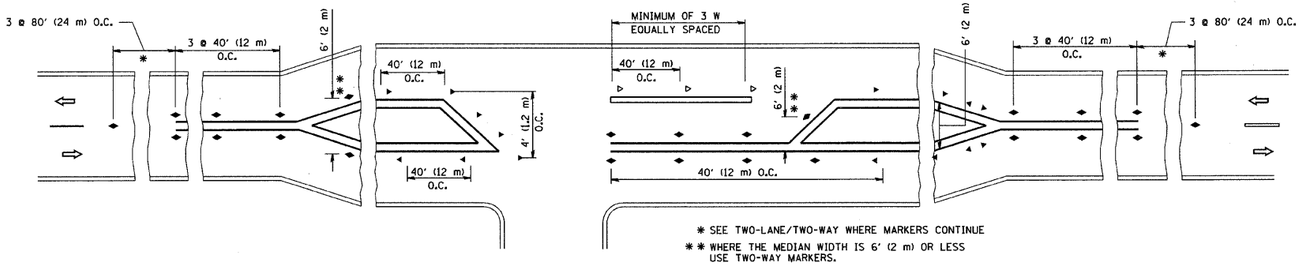
LANE MARKER NOTES

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

LEFT TURN

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

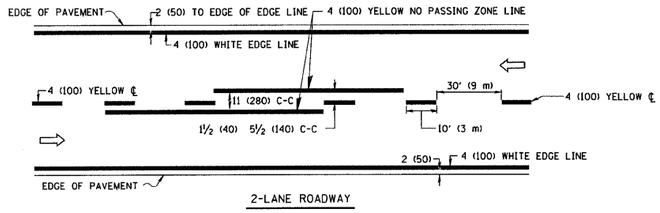
FILE NAME = W:\diststd\22x34\tc11.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

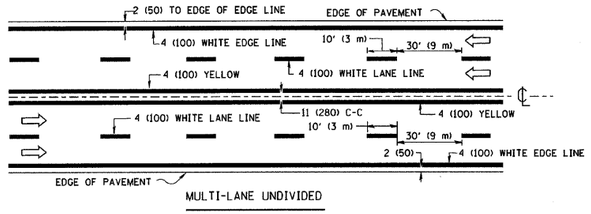
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

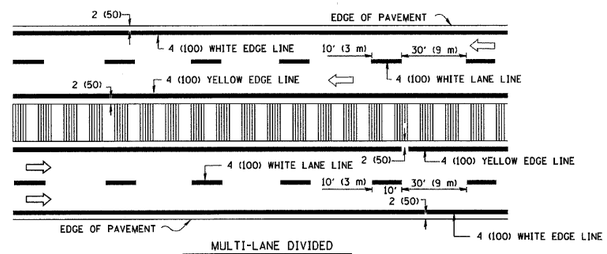
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	45
	TC-11	CONTRACT NO. 60I52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



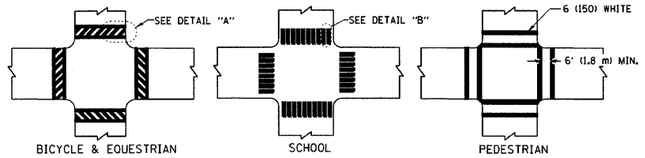
MULTI-LANE UNDIVIDED

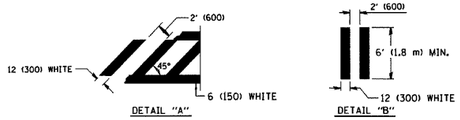


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

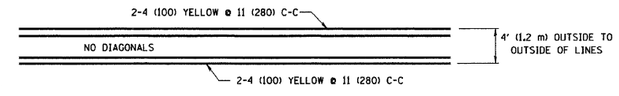
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

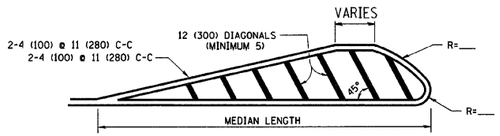




TYPICAL CROSSWALK MARKING



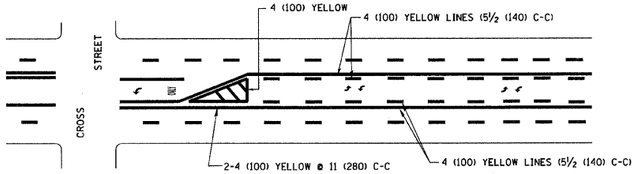
4' (1.2 m) WIDE MEDIANS ONLY



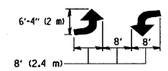
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

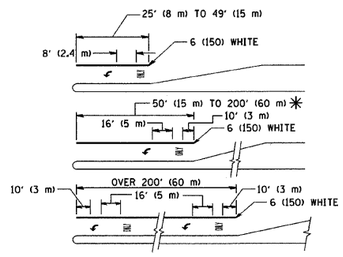


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

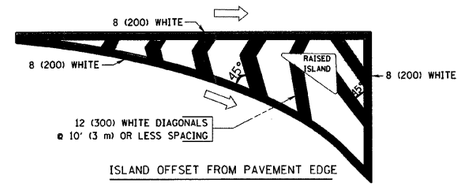


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

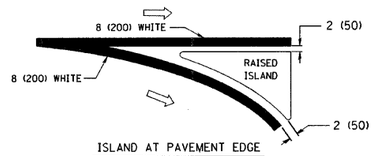
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

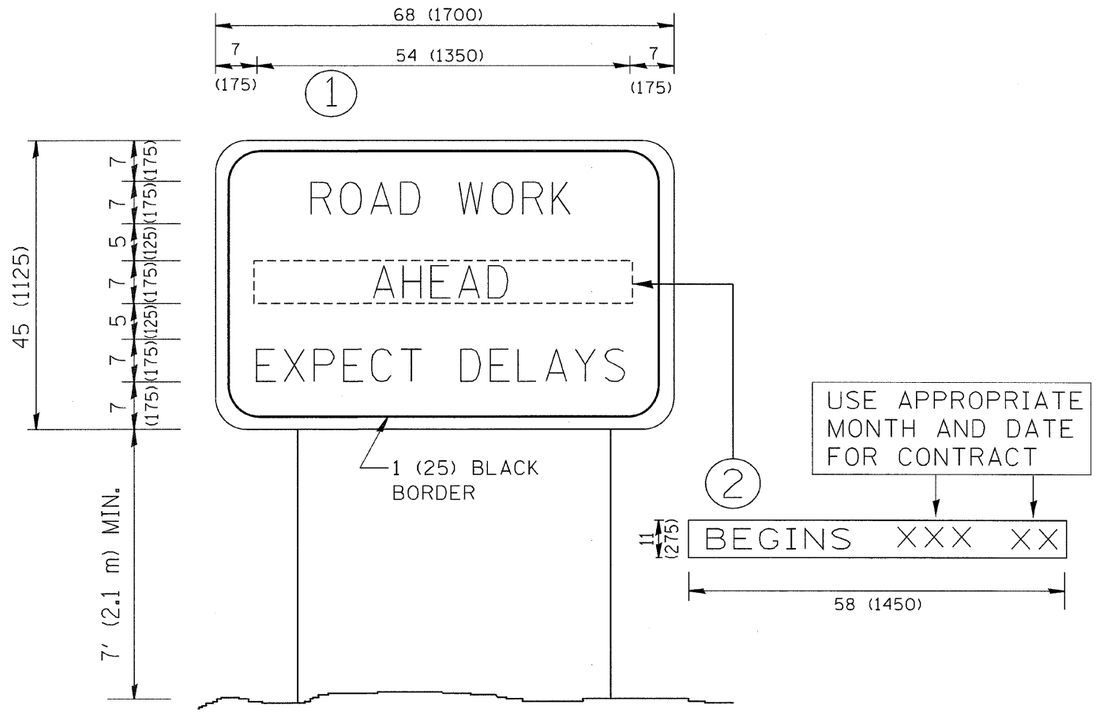
FILE NAME = W:\diststd\22x34\tc13.dgn	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	46
	TC-13	CONTRACT NO. 60I52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

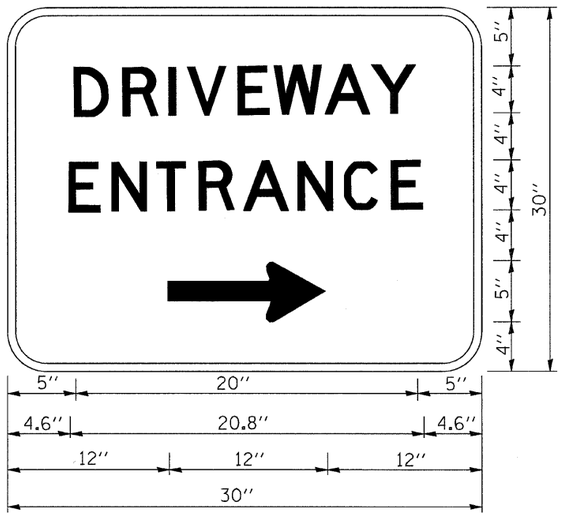
FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	47
	TC-22	CONTRACT NO. 60I52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

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

FILE NAME = W:\diststd\22x34\tc26.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	48
	TC-26	CONTRACT NO. 60I52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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.

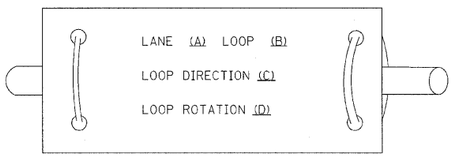
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES 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

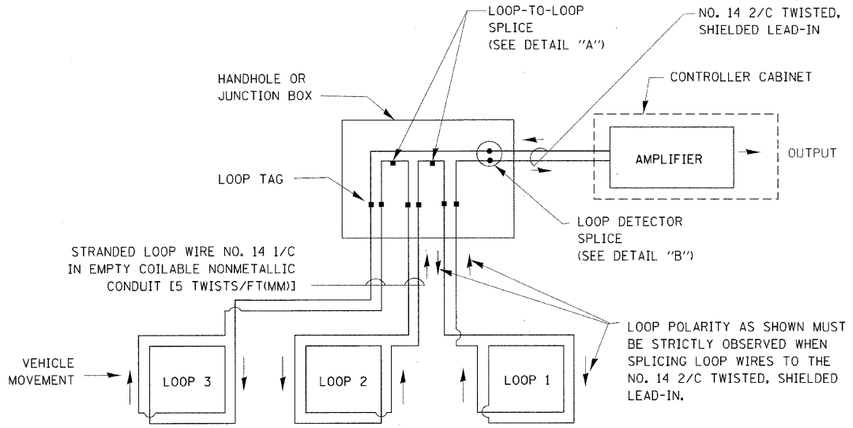


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

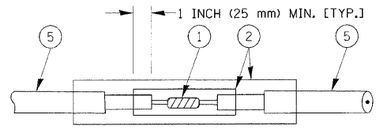
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

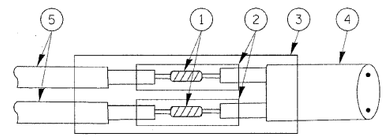


DETECTOR LOOP WIRING SCHEMATIC

- 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.

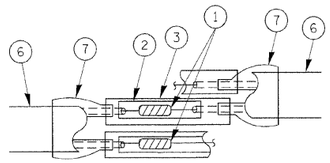


DETAIL "A"
LOOP-TO-LOOP SPLICE



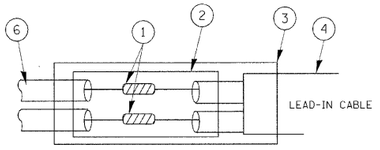
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



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 LENGHT 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 = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.2000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

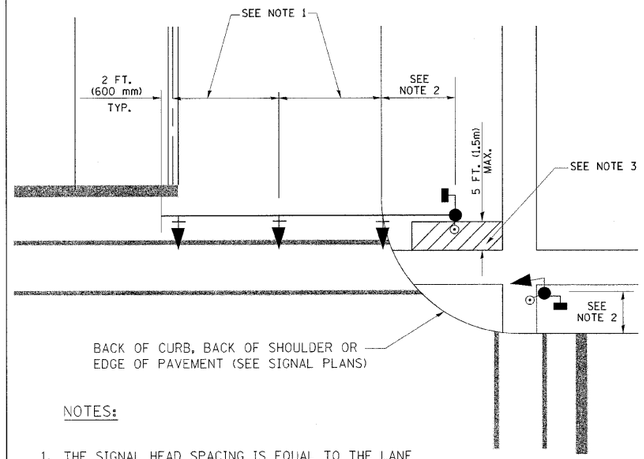
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	49
		CONTRACT NO. 60I52		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

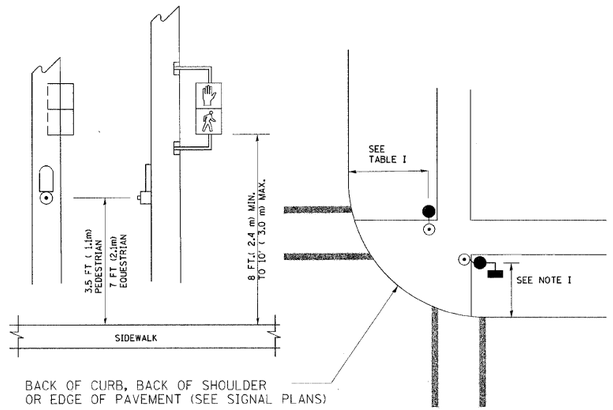
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

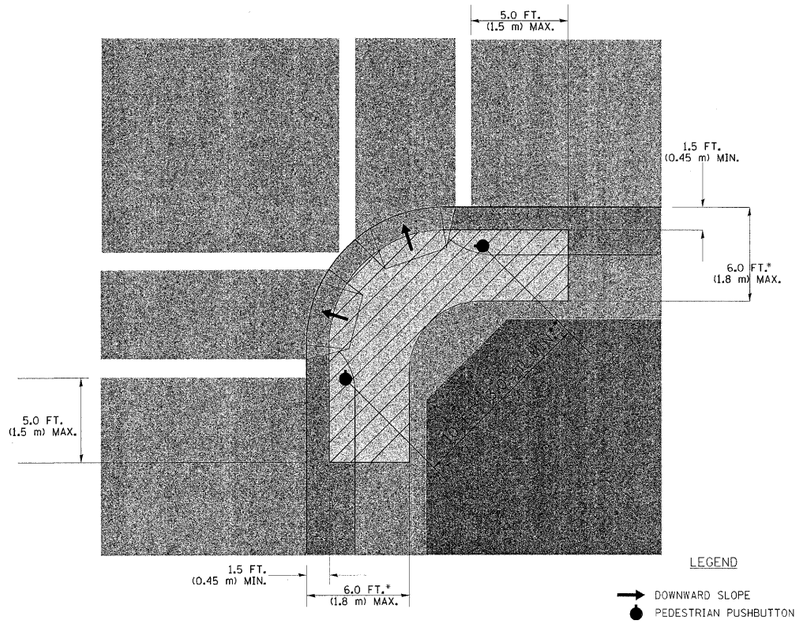
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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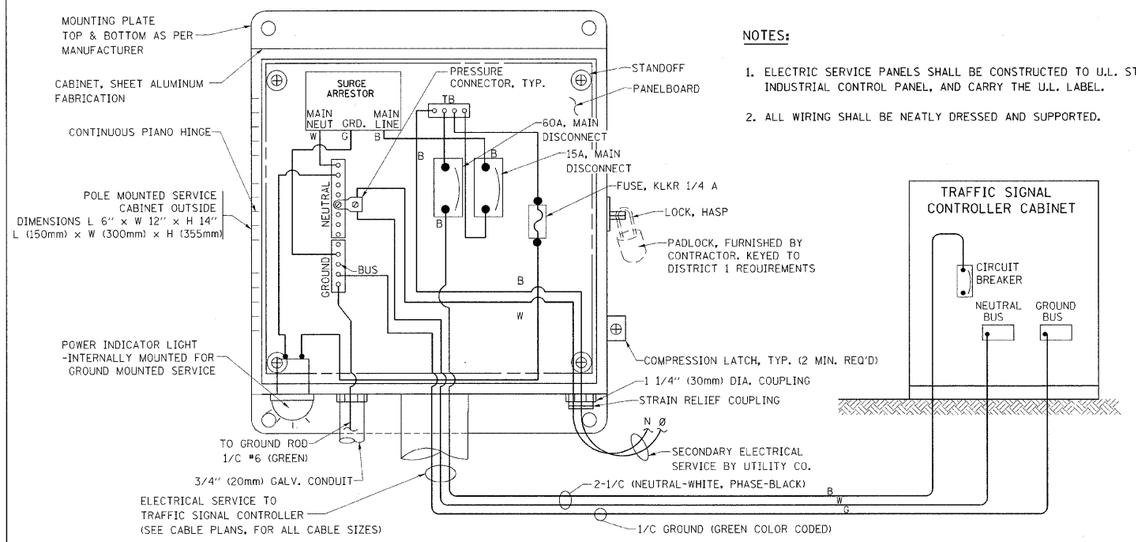
		CONTRACT NO. 60152		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



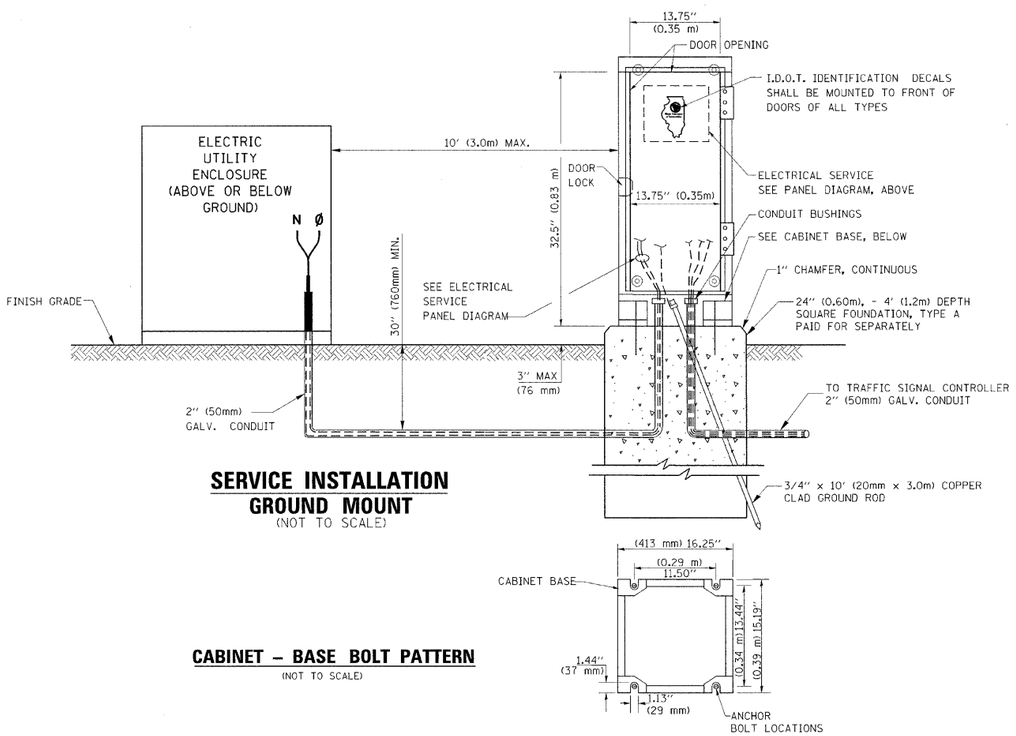
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

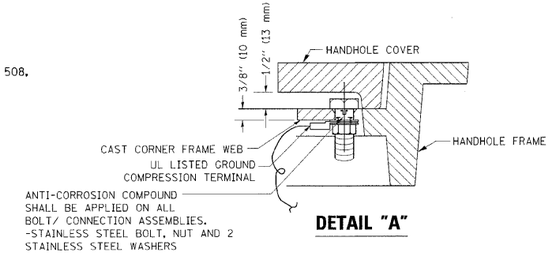


SERVICE INSTALLATION GROUND MOUNT

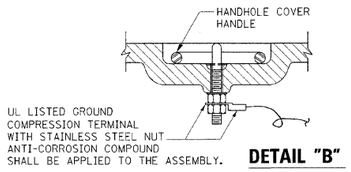
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



DETAIL "A"

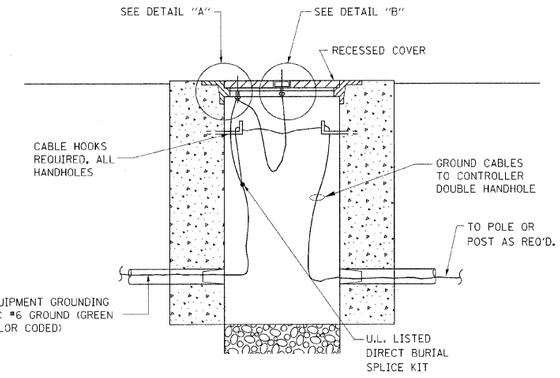


DETAIL "B"

NOTES:

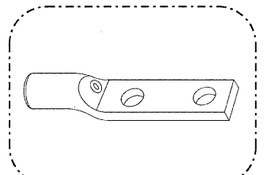
GROUNDING SYSTEM

1. 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.
2. 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.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

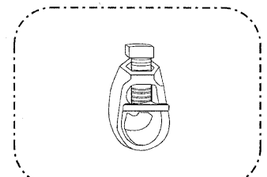


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



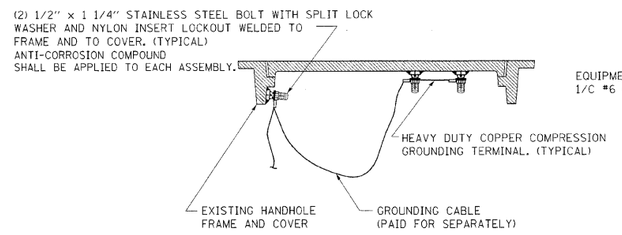
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

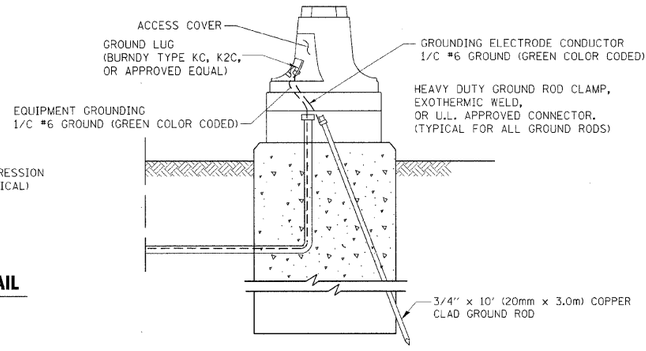
NOTES:

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



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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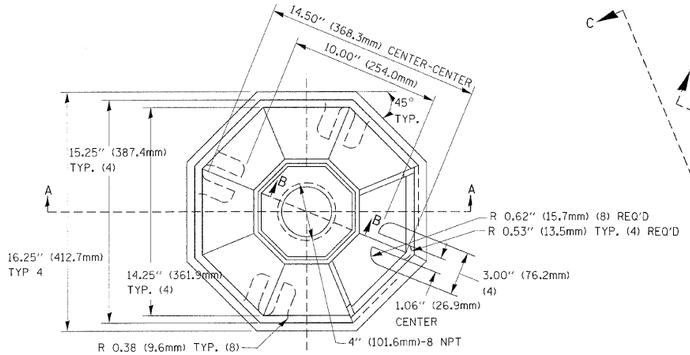
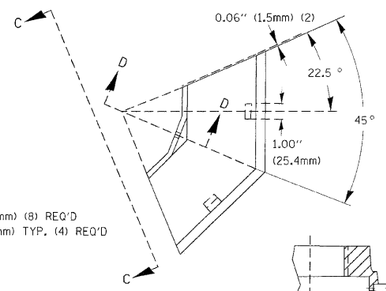
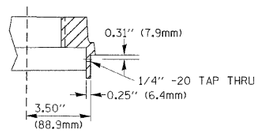
		CONTRACT NO. 60I52		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

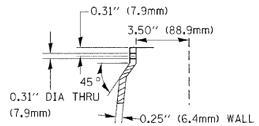


TOP VIEW

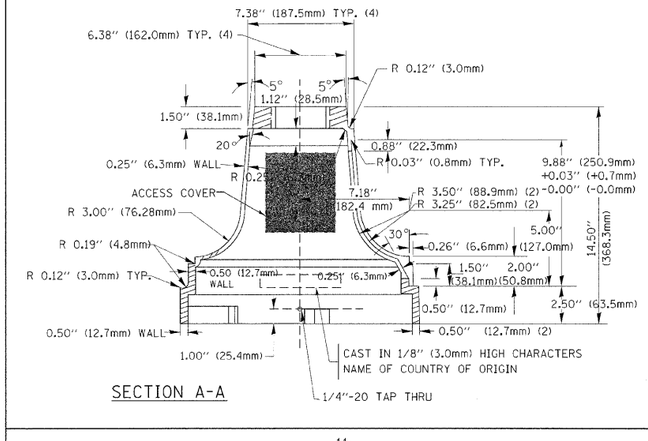




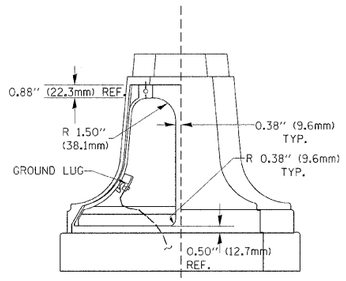
SECTION B-B



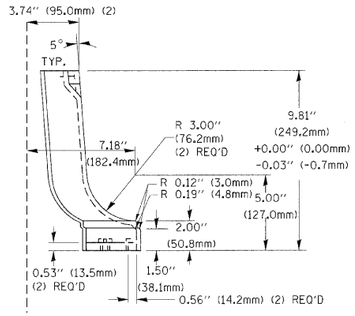
SECTION D-D



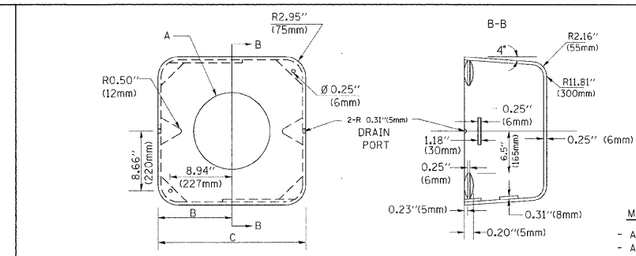
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

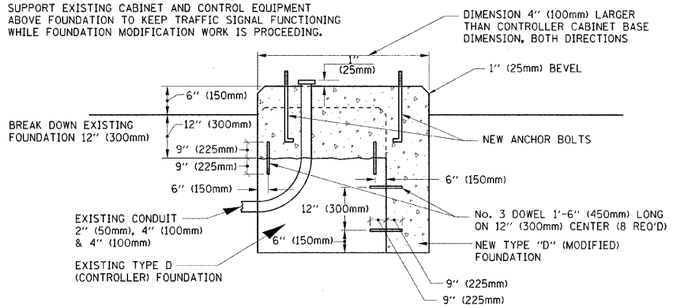
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

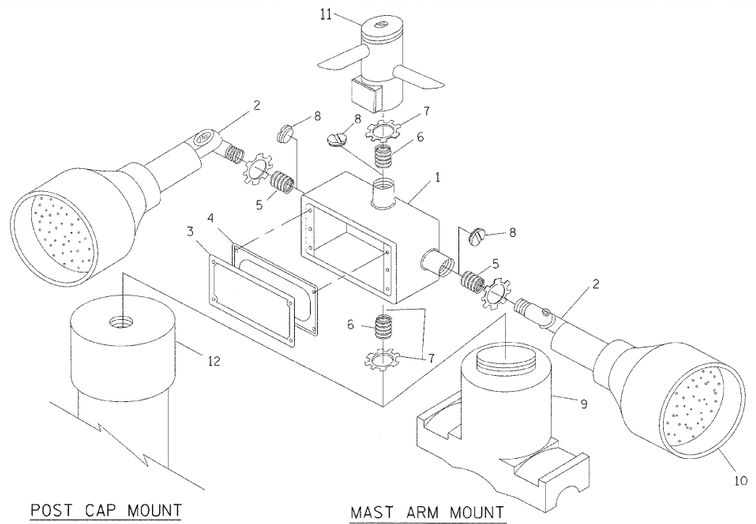
NOTES:

1. 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.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

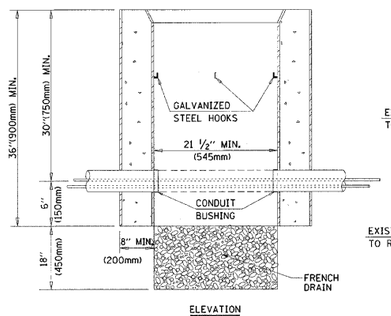
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

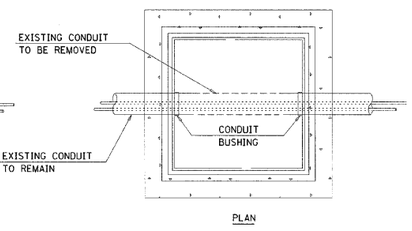
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. 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
3. 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 ¾"(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.



ELEVATION



PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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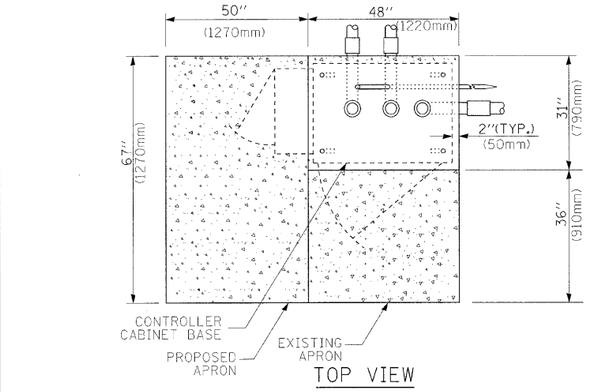
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

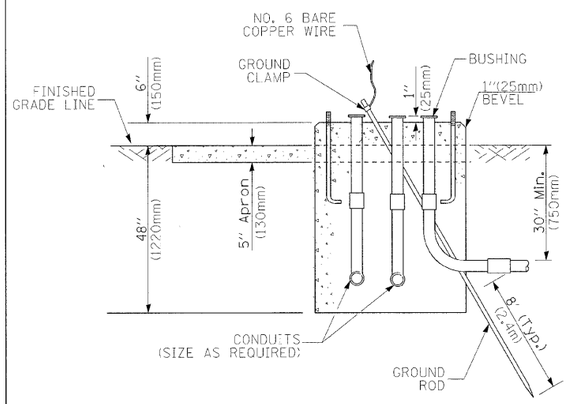
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

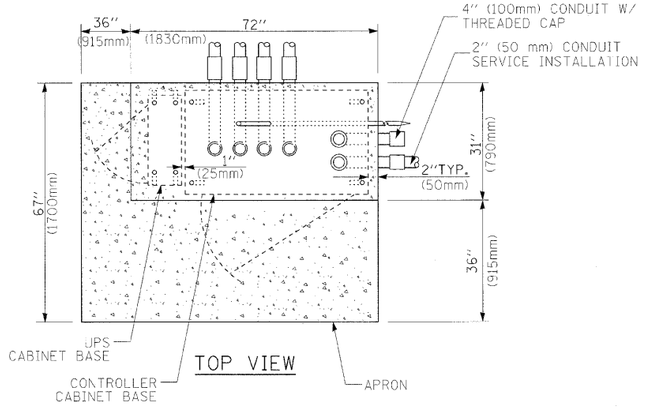
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	52
		CONTRACT NO. 60I52		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



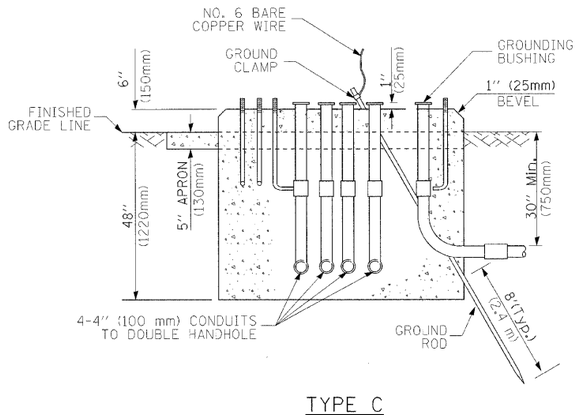
TOP VIEW



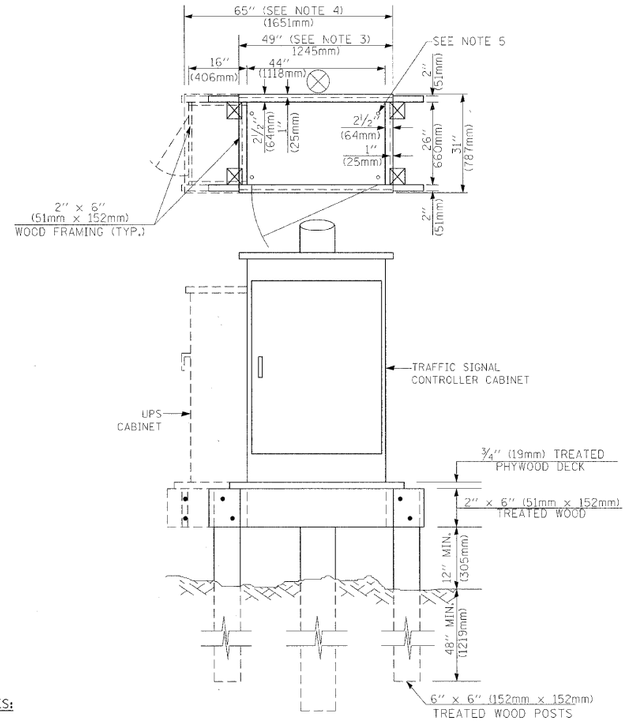
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



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	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	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)
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)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	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

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112614\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - DAG	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	53
		CONTRACT NO. 60152		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		R R	
COMMUNICATIONS CABINET	R CC	E C C	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	R R	R R
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

FILE NAME =	USER NAME = kanthaphixaybc	DESIGNED - DAG/BCK	REVISED -
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112644\traffic_legend_v7.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

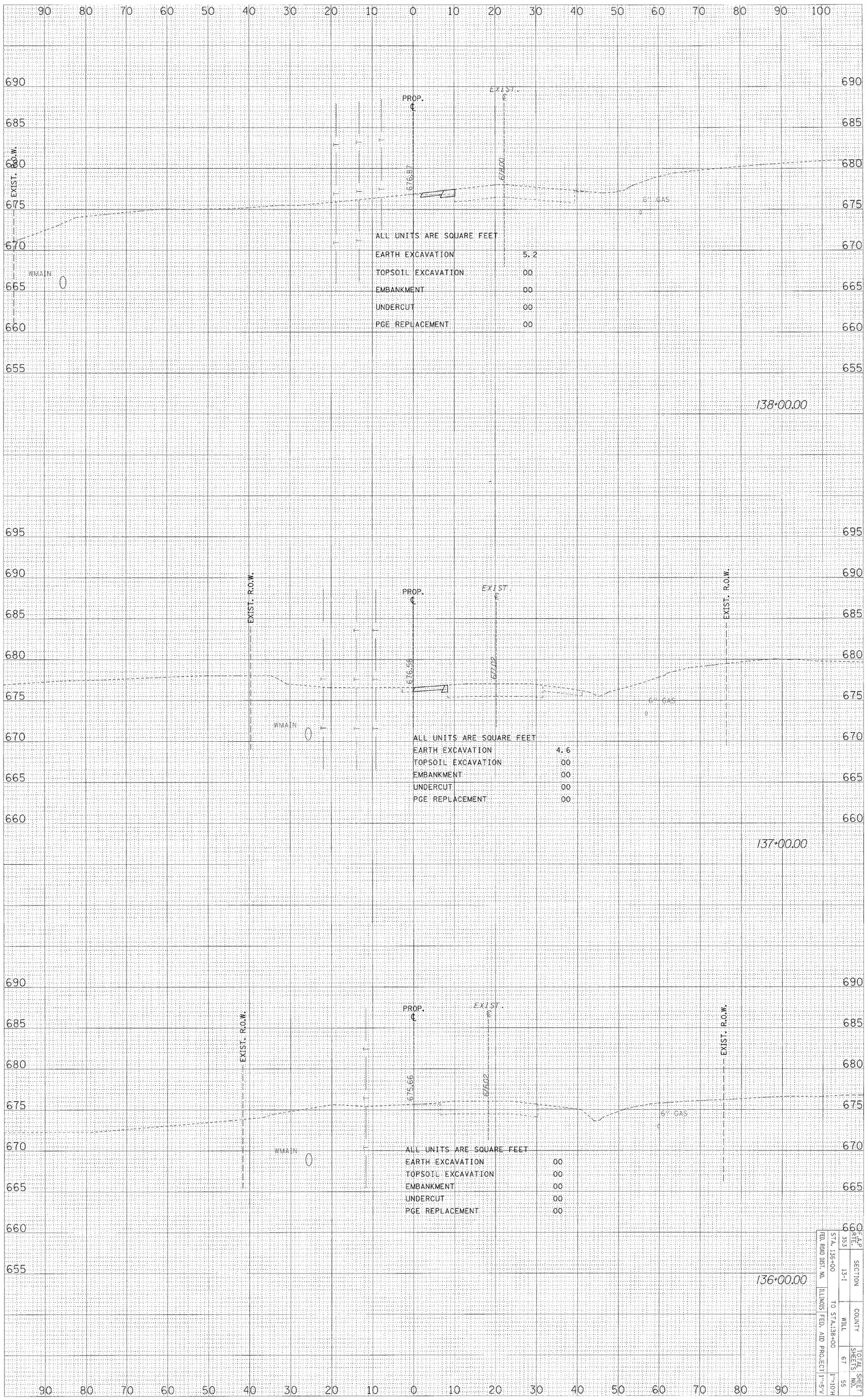
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	54
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
STA. 136+00		TO STA. 138+00	
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-1	WILL	67	55
PLAN FILE 353			

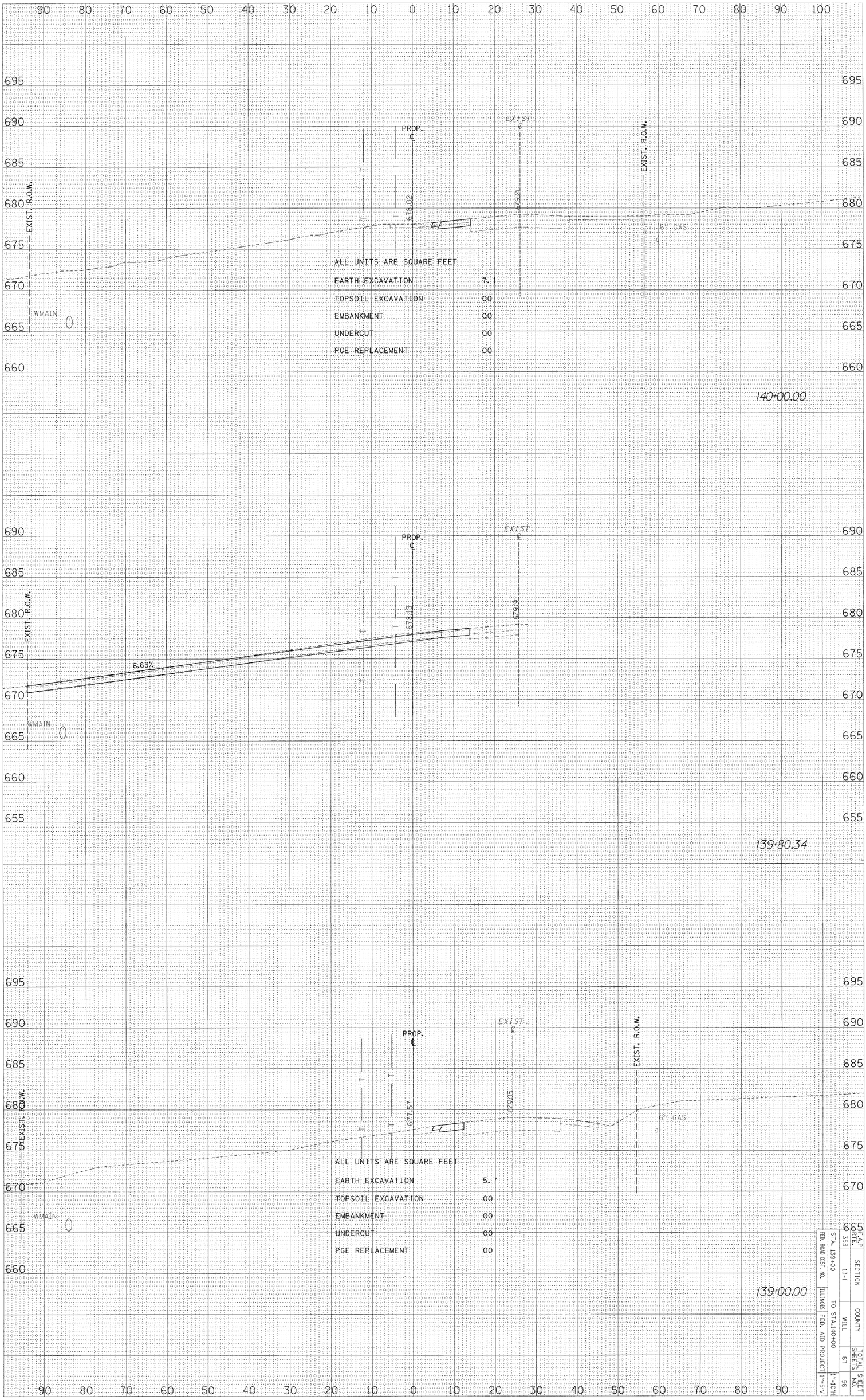
1"=10'H
1"=5'V

US ROUTE 30

$FILE$ $DATE$

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

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



FED. ROAD DIST. NO.	STA. 139+00	SECTION	SHEET NO.
ILLINOIS	TO STA. 140+00	COUNTY	TOTAL SHEETS
FED. AID PROJECT		WILL	67
			56

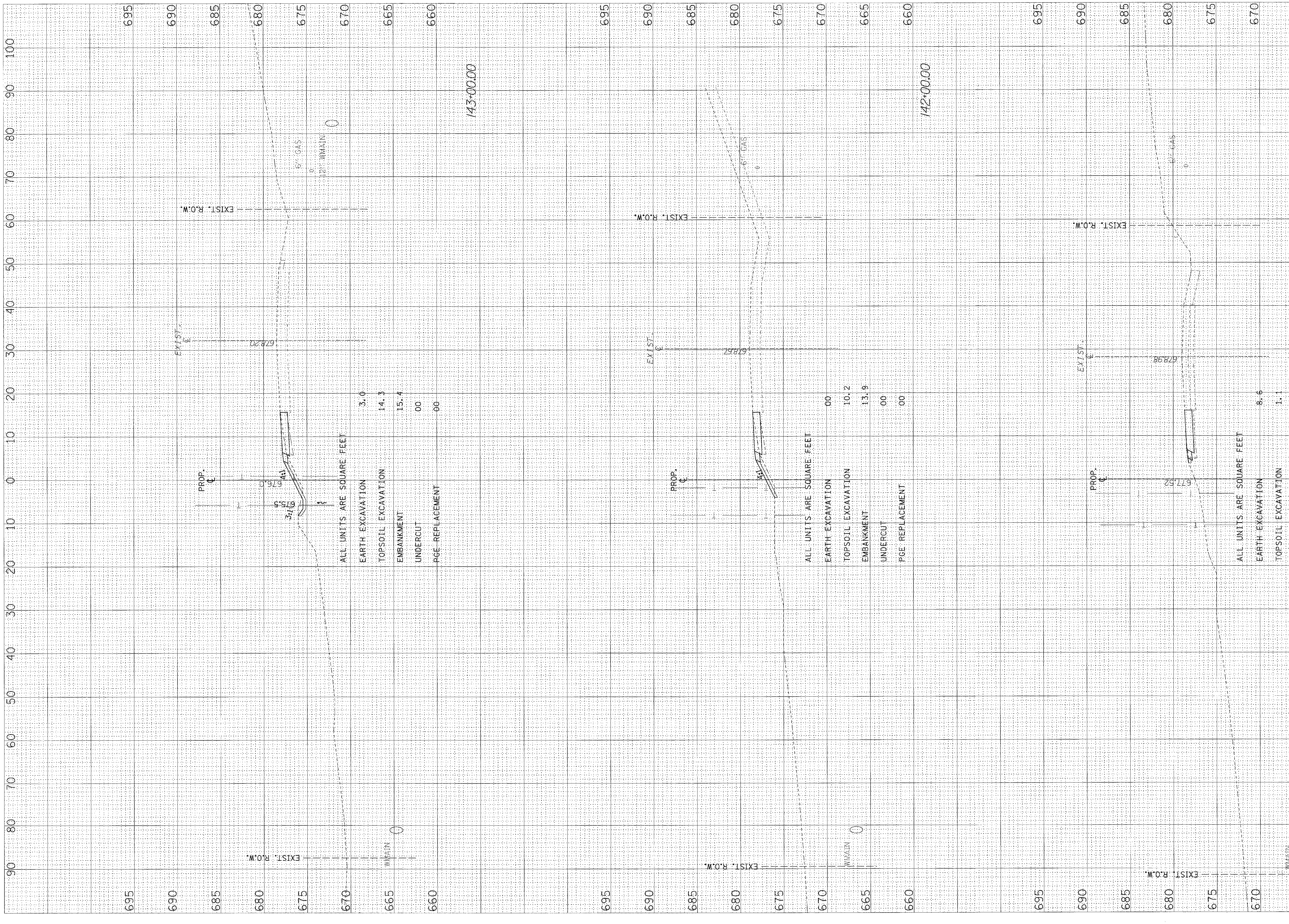
1"=10'H
1"=5'V

US ROUTE 30

$FILE$ $DATE$

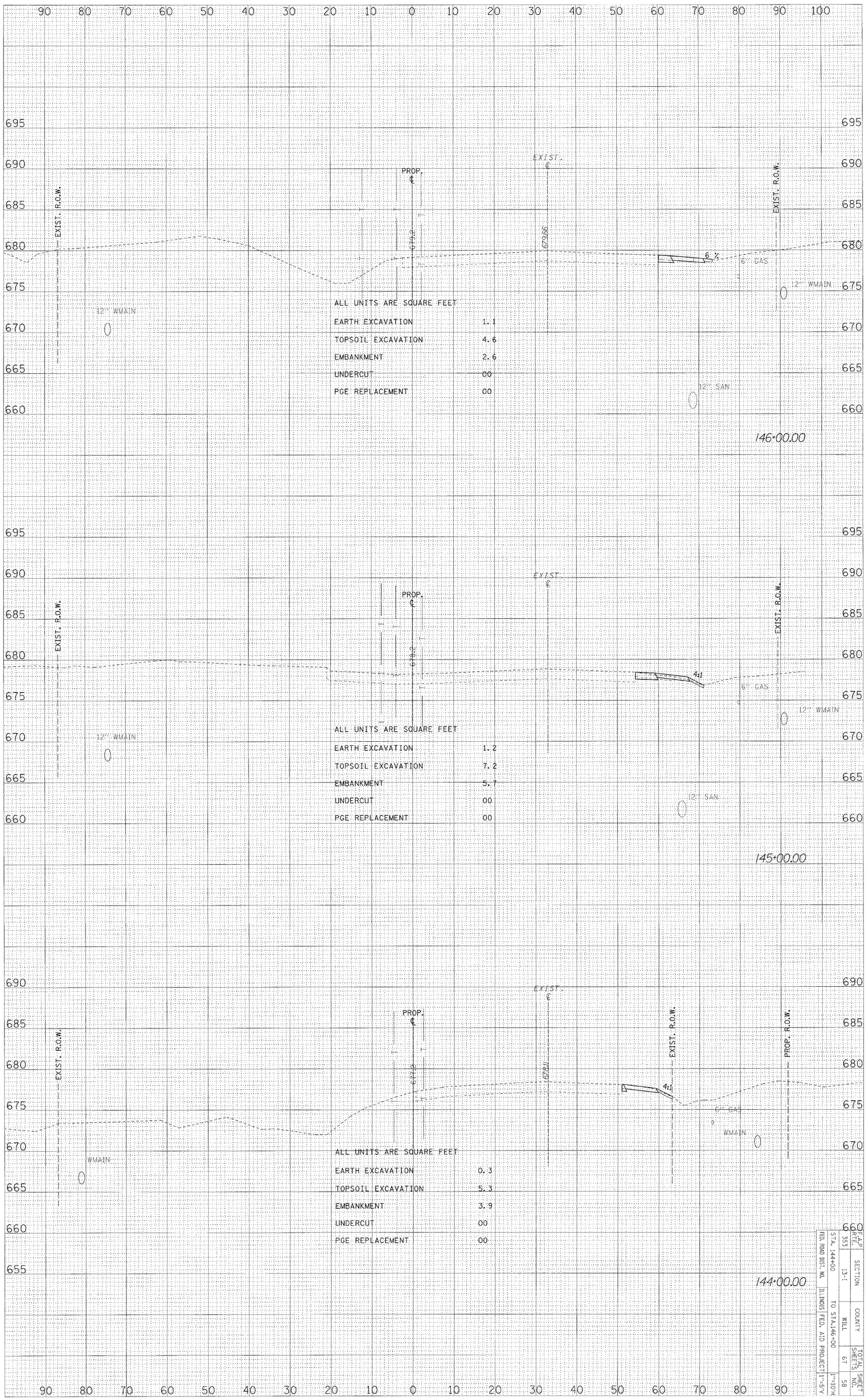
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-I	WILL	67	57

STA. 141+00	TO STA.143+00		1"=10'H
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	1"=5'V



ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLAT		
	AREAS		
NO.	AREAS CHECKED		

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



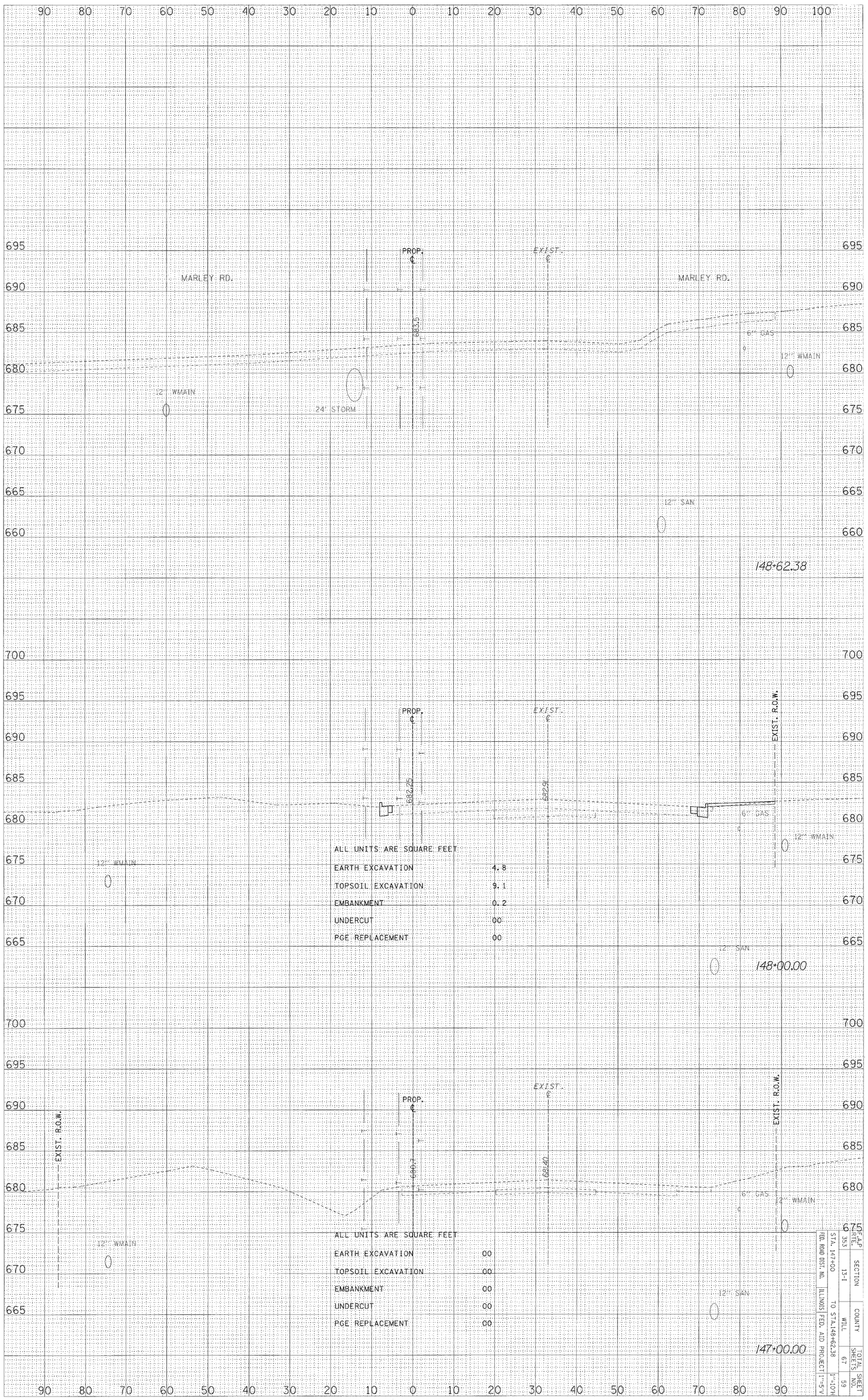
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
STA. 144+00	TO STA. 146+00		
353			
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-1	WILL	67	58
		1"=10'H	1"=5'V

US ROUTE 30

#FILE# #DATE#

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

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



ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	4.8
TOPSOIL EXCAVATION	9.1
EMBANKMENT	0.2
UNDERCUT	00
PGE REPLACEMENT	00

ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	00
TOPSOIL EXCAVATION	00
EMBANKMENT	00
UNDERCUT	00
PGE REPLACEMENT	00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	59
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
STA. 147+00	TO STA. 148+62.38		1"=10'H	1"=5'V

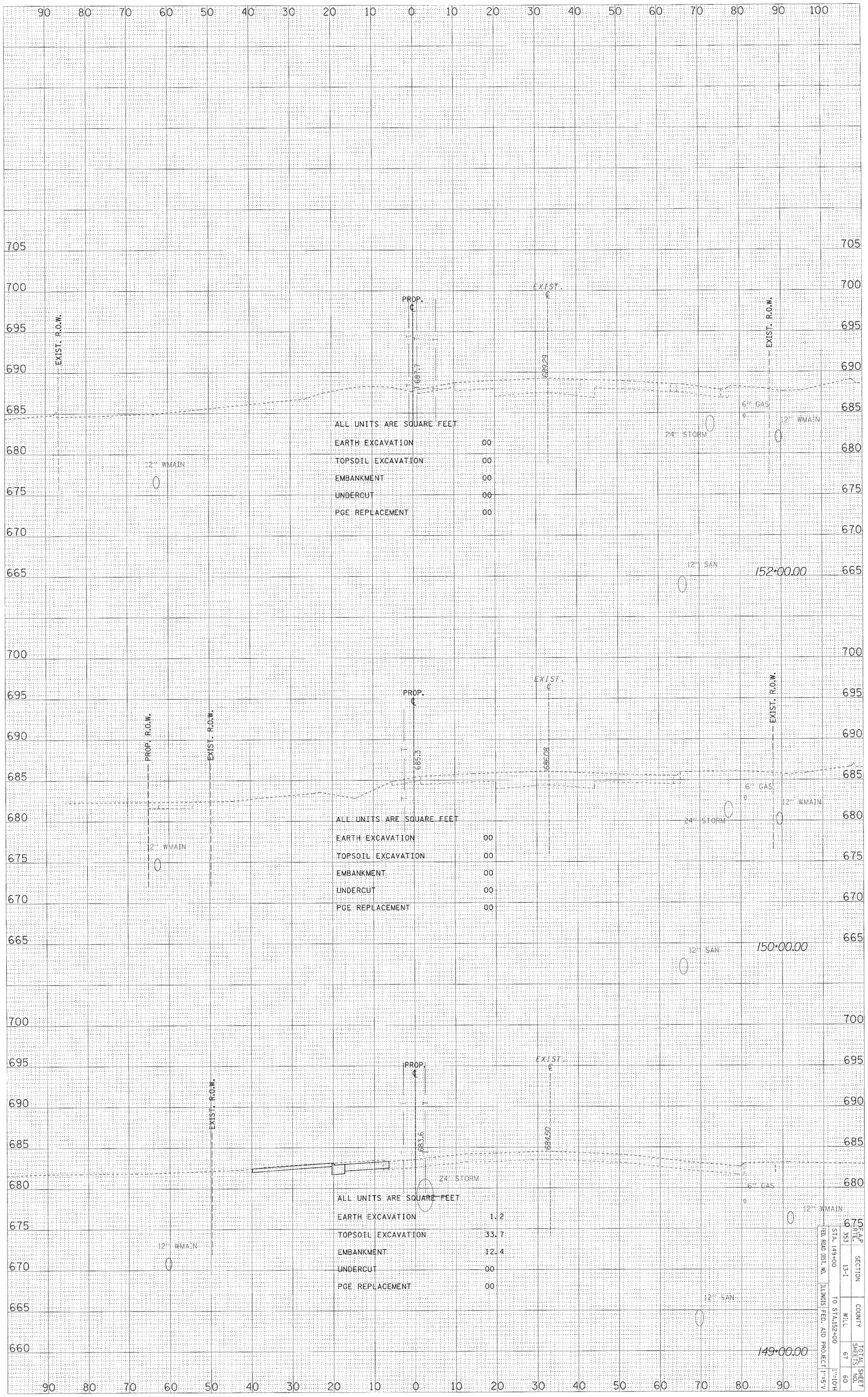
US ROUTE 30

#FILE#

#DATE#

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLAT		
	AREAS		
	AREAS CHECKED		

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



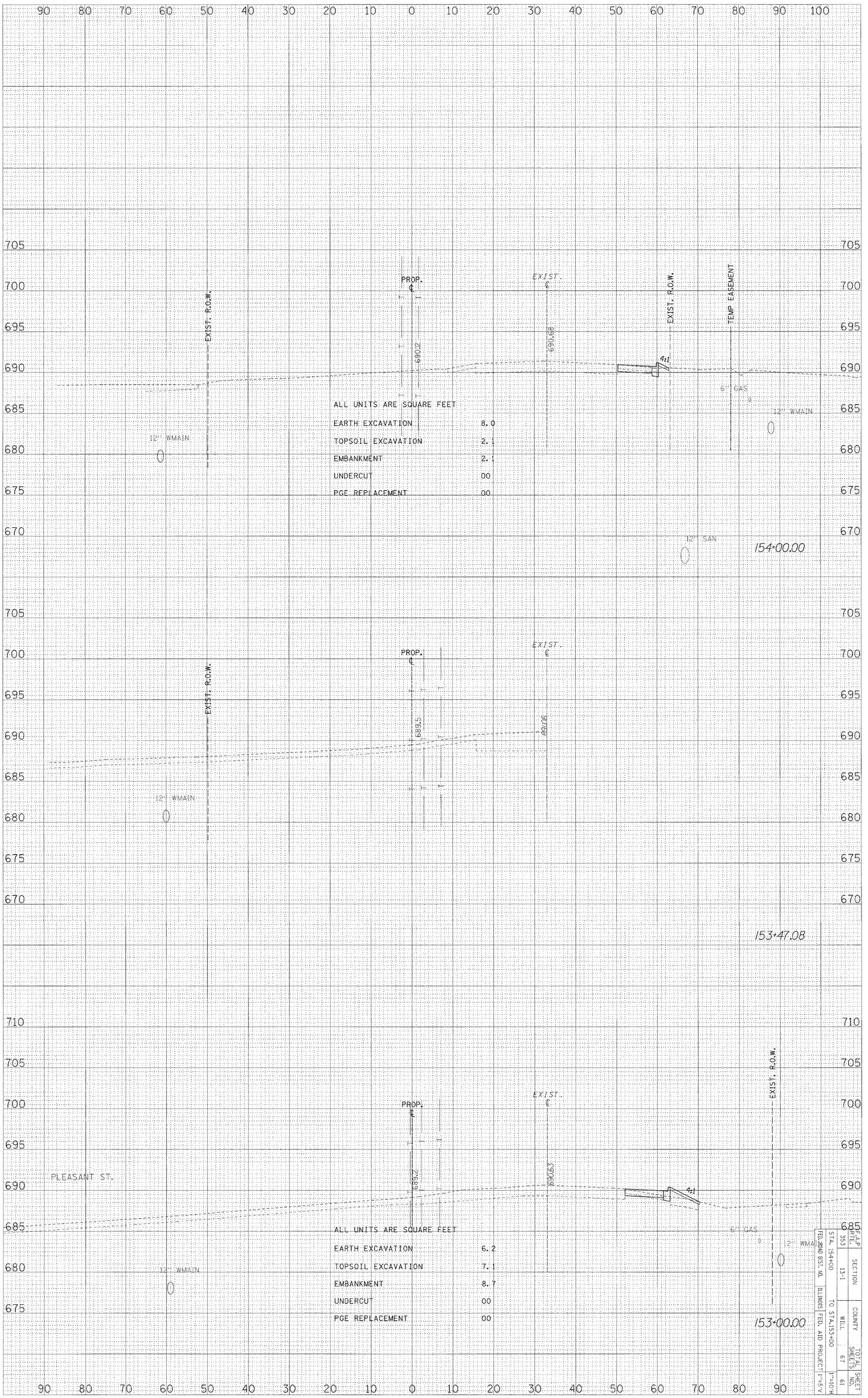
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	SECTION	COUNTY
STA. 149+00	TO STA.152+00	13-1	WILL
			TOTAL SHEETS 67
			SHEET NO. 60
			1"=10'H 1"=5'V

US ROUTE 30

$FILE$ $DATE$

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

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



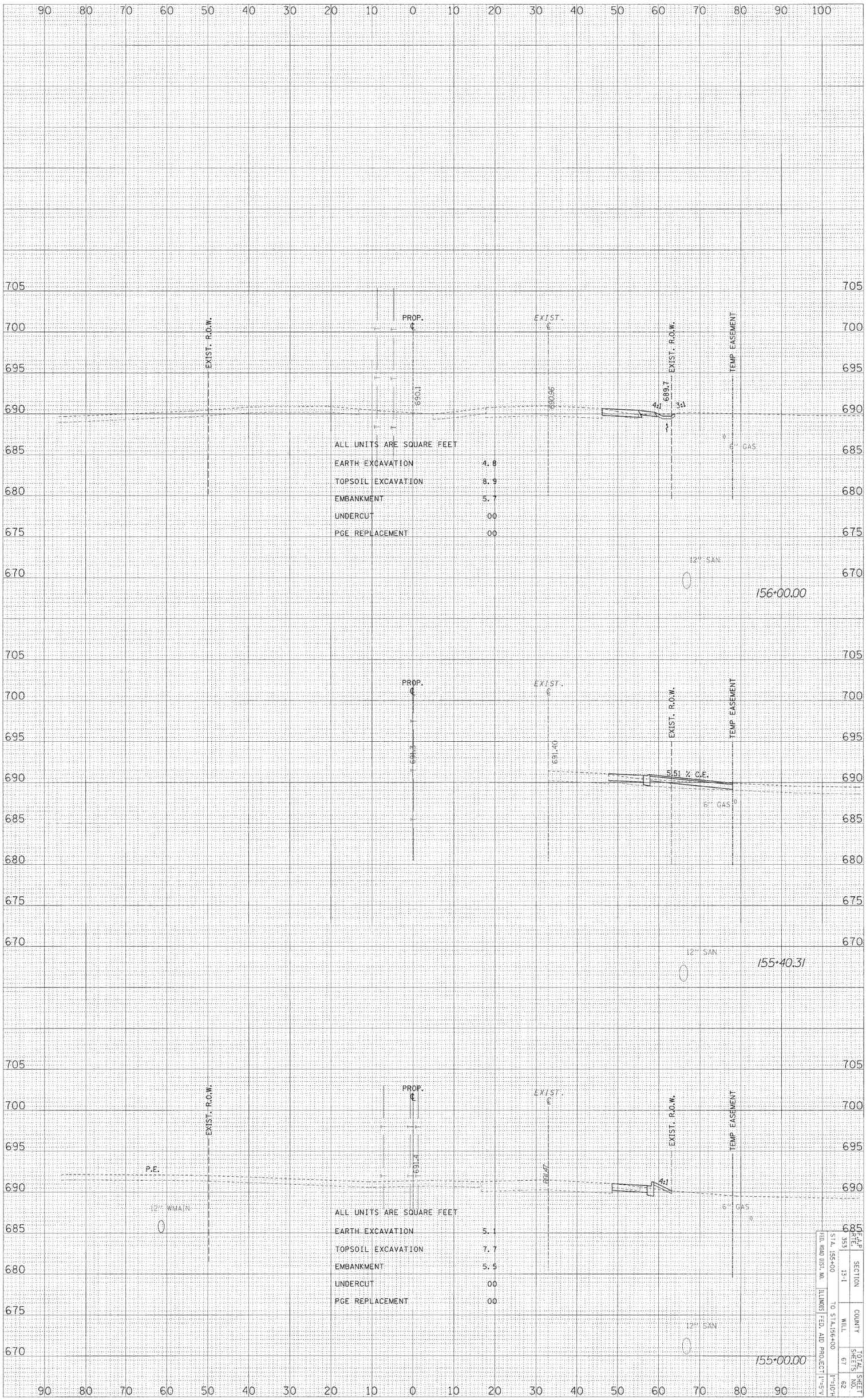
FED. ROAD DIST. NO.	STA.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS	353	13-1	WILL	67	61
FED. AID PROJECT	STA. 154+00 TO STA. 153+00				
1"=10'H 1"=5'V					

US ROUTE 30

$FILE$ $DATE$

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

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



ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	4.8
TOPSOIL EXCAVATION	8.9
EMBANKMENT	5.7
UNDERCUT	00
PGE REPLACEMENT	00

ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	5.1
TOPSOIL EXCAVATION	7.7
EMBANKMENT	5.5
UNDERCUT	00
PGE REPLACEMENT	00

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
STA. 155+00	TO STA. 156+00		1"=10'H 1"=5'V

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-1	WILL	67	62

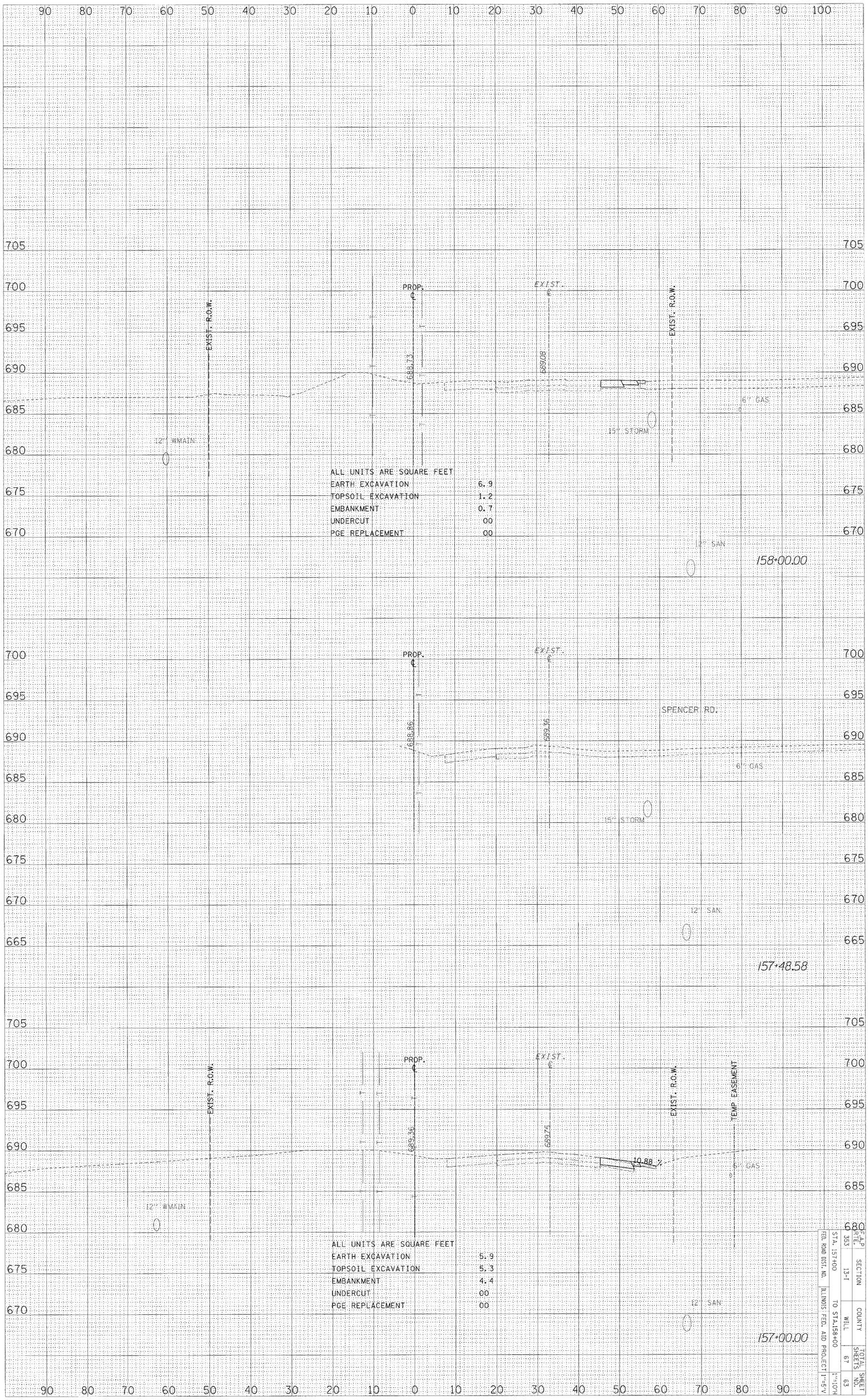
F.A.P. 353

US ROUTE 30

$FILE$ $DATE$

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	63
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

STA. 157+00 TO STA. 158+00

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

US ROUTE 30

#FILE$ #DATE$

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

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

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

710 705 700 695 690 685 680 675

LT SIDE DOES NOT INCLUDE IMPROVEMENTS
MADE BY DEVELOPER (NO PLANS AVAILABLE)

EXIST. R.O.W.

PROP. ℄

EXIST. ℄

EXIST. R.O.W.

C.E.

691.62

12" WMAIN

6" GAS

ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	00
TOPSOIL EXCAVATION	00
EMBANKMENT	00
UNDERCUT	00
PGE REPLACEMENT	00

161+00.00

LT SIDE DOES NOT INCLUDE IMPROVEMENTS
MADE BY DEVELOPER (NO PLANS AVAILABLE)

12" SAN

EXIST. R.O.W.

PROP. ℄

EXIST. ℄

EXIST. R.O.W.

693.04

688.43

6.6±

6" GAS

12" WMAIN

ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	3.9
TOPSOIL EXCAVATION	00
EMBANKMENT	00
UNDERCUT	00
PGE REPLACEMENT	00

160+00.00

12" SAN

LT SIDE DOES NOT INCLUDE IMPROVEMENTS
MADE BY DEVELOPER (NO PLANS AVAILABLE)

EXIST. R.O.W.

PROP. ℄

EXIST. ℄

EXIST. R.O.W.

693.55

688.21

1:6

6" GAS

12" WMAIN

ALL UNITS ARE SQUARE FEET	
EARTH EXCAVATION	5.2
TOPSOIL EXCAVATION	00
EMBANKMENT	00
UNDERCUT	00
PGE REPLACEMENT	00

12" SAN

159+00.00

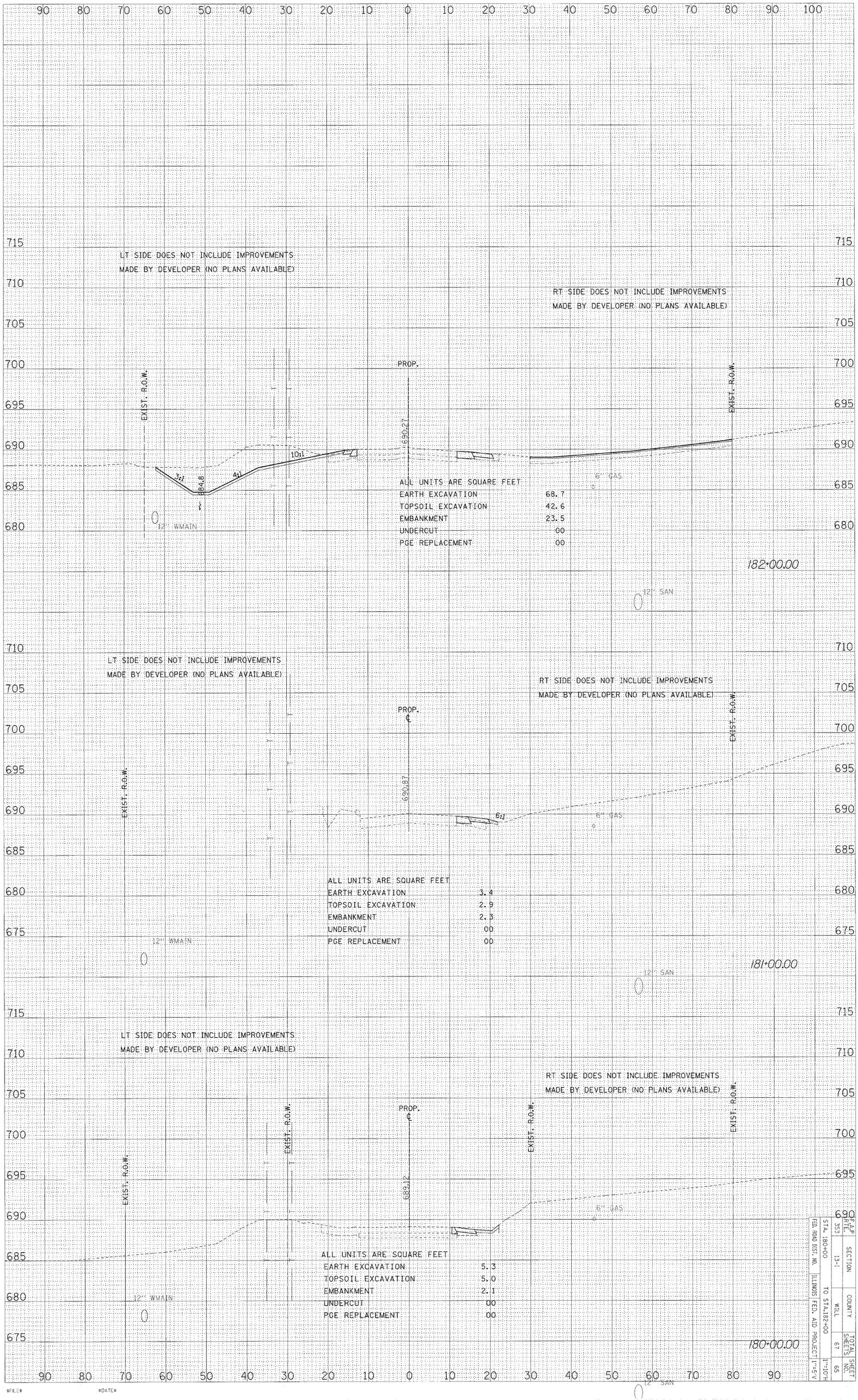
FED. ROAD DIST. NO.	STA. 159+00	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS FED. AID PROJECT	TO STA.161+00	13-1	WILL	67	64
1"=10'H	1"=5'V				

US ROUTE 30

$FILE$ $DATE$

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

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

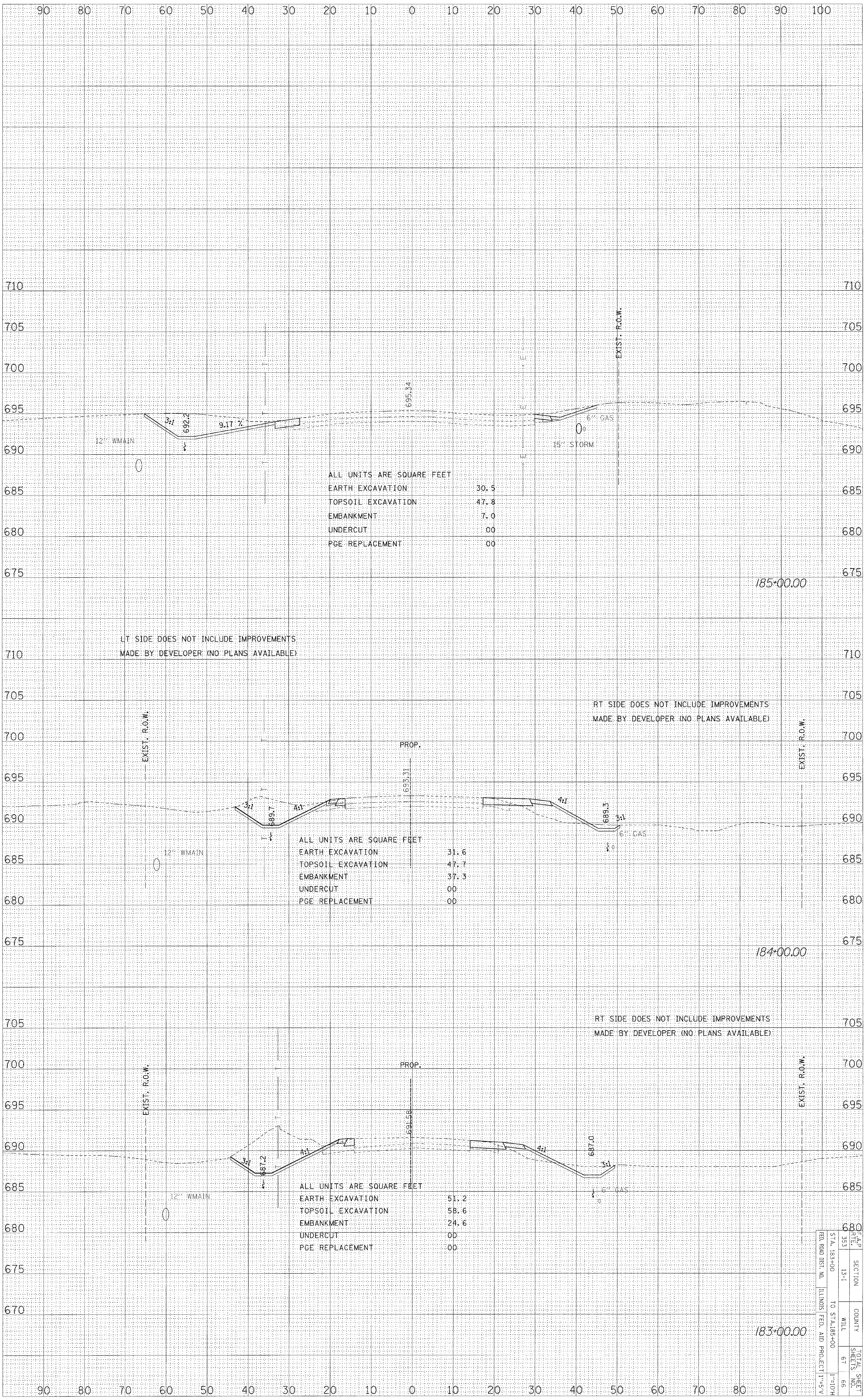


FED. ROAD DIST. NO.	STA. 180+00 TO STA. 182+00	SECTION	STA. P. SHEET NO.
		13-1	353
ILLINOIS FED. AID PROJECT		COUNTY	TOTAL SHEETS
		WILL	67
1"=10'H 1"=5'V			SHEET NO. 65

#FILE# #DATE#

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

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



ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	30.5
TOPSOIL EXCAVATION	47.8
EMBANKMENT	7.0
UNDERCUT	00
PGE REPLACEMENT	00

ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	31.6
TOPSOIL EXCAVATION	47.7
EMBANKMENT	37.3
UNDERCUT	00
PGE REPLACEMENT	00

ALL UNITS ARE SQUARE FEET

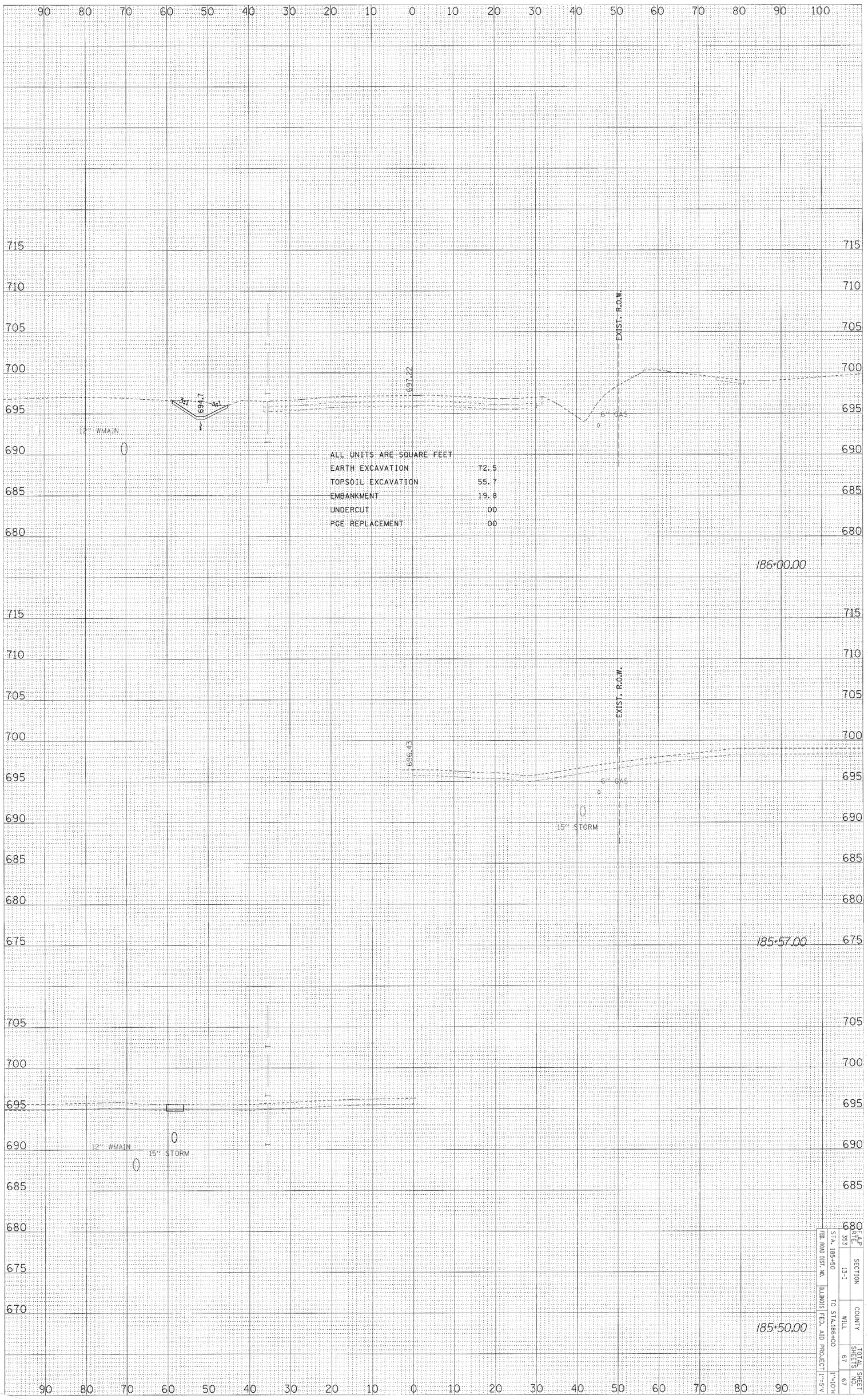
EARTH EXCAVATION	51.2
TOPSOIL EXCAVATION	58.6
EMBANKMENT	24.6
UNDERCUT	00
PGE REPLACEMENT	00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	13-1	WILL	67	66
STA. 183+00	TO STA.185+00			1"=10'H
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		1"=5'V

#FILE# #DATE#

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

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



FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT					
STA. 185+50		TO STA. 186+00					
SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
13-1		WILL		67		67	
SCALE: HORIZ. 1"=10'		VERT. 1"=5'					

DATE