1-17-14 LETTING ITEM 086

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN UNINCORPORATED NUNDA TOWNSHIP

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PROPOSED HIGHWAY PLANS

FAP ROUTE 335 / ILL 176 AT SMITH ROAD SECTION: 146N-2

PROJECT: ACF-0335 (018)

TRAFFIC SIGNAL INSTALLATION & CHANNELIZATION MCHENRY COUNTY C-91-446-10

R 8 E

R 8 E

PROJECT BEGINS

R 8 E

O TRAFFIC DATA
SPEED LIMIT: 40-45 MPH

0 100' 200' 300' -1" = 100'
0 10' 20' 30' -1" = 10'
0 50' 100' -1" = 50'
0 50' 100' -1" = 40'
0 50' 100' -1" = 30'
0 50' 100' -1" = 20'

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

PROJECT ENGINEER: DAN WILGREEN (847) 705–4240 PROJECT MANAGER: KEN ENG

STA 247+80

ZO12 ADT: 12,800

RRAIRIE GROVE

PROJECT ENDS
STA 262+58

LIMIT OF PROJECT
STA 117+54.2

NUNDA TOWNSHIP

GROSS AND NET LENGTH OF PROJECT = 1,478 FEET (0.28 MILES)

D-91-446-10

O DAVIESS STEPHENSON STEPHENSON SOONE NC PEMBY LAKE

CAPPOLL GOLE

OCLE

OC FALS

FORMAN

NERCER

POTNAM

IA SALLE

CRUMOY

IF DEPLACE

CRUMOY

IA SALLE

CRUMOY

146N-2

MCHENRY 65 1

ILLINOIS CONTRACT NO. 60K20

ROCK ISLAND

MERCER

WARREN

MANDOR

WARREN

W

LOCATION OF SECTION INDICATED THUS: - -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

SUBMITTED

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DOC 6 20 13

The D. Caranollo JE. Bu

active engineer of Design and Environment

Doc 6 20 13

Other Osman JE Bu

Director of Highways, Chief Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60K20

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	280001-07

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PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)

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PAVEMENT MARKING LETTER AND SYMBOLS FOR TRAFFIC STAGING (TC-16)

AND EDGE OF SHOULDERS >= 15' (4.5M) (BD-01)

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TEMPORARY EROSION CONTROL SYSTEMS
CLASS C AND D PATCHES
HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
CONCRETE END SECTION FOR PIPE CULVERTS 15" (375MM) THRU 84" (2100MM) DIA.
SUB-SURFACE DRAINS
CONCRETE UP OWNER FOR DIRECTORIES

601101-01 CONCRETE HEADWALL FOR PIPE DRAIN

602001-02 CATCH BASIN TYPE A 602301-04 INLET. TYPE A MANHOLE TYPE A 602401-03 604001-03 FRAME AND LIDS TYPE 1

442201-03

482001-02

542001-04

601001-04

630001-10

630201-06

635011-02

701201-04

701306-03

701311-03

701326-04

701501-06

701701-09

701901-03

720001-01

720006-04

720016-03

805001-01

604036-02 GRATE TYPE 8 FRAME AND GRATE, TYPE 24 604091-02

606001-05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

STEEL PLATE BEAM GUARDRAIL

STEEL PLATE BEAM, PCC/HMA STABILIZATION SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

630301-06 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT

REFLECTOR MARKERS AND MOUNTING DETAILS

LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH LANE CLOSURE, 21,2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH

LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY FOR SPEEDS > 45 MPH

LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH

URBAN LANE CLOSURE 2L. 2W. UNDIVIDED

URBAN LANE CLOSURE, MULTILANE INTERSECTION

TRAFFIC CONTROL DEVICES

SIGN PANEL MOUNTING DETAILS

SIGN PANEL ERECTION DETAILS

MAST ARM MOUNTED STREET NAME SIGNS ELECTRICAL SERVICE INSTALLATION DETAILS

814001-02 CONCRETE HANDHOLES

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STEEL MAST ARM ASSEMBLY AND POLE 877001-05 878001-09 CONCRETE FOUNDATION DETAILS

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DRIVEWAYS (TC-10)

SHEET NO.

2

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17

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DESCRIPTION

COVER SHEET

SUMMARY OF DUANTITIES

SCHEDULE OF QUANTITIES (EARTHWORK)

ALIGNMENT, TIES, AND BENCHMARKS

EXISTING ROADWAY PLAN & PROFILE

PROPOSED ROADWAY PLAN & PROFILE

EXISTING DRAINAGE AND UTILITY PLAN

PROPOSED DRAINAGE DRAINAGE PLANS

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EROSION CONTROL NOTES

EROSION CONTROL PLAN

SUE PLANS

PLAT OF HIGHWAYS

LANDSCAPING PLANS

TRAFFIC SIGNAL PLANS

PAVEMENT MARKING PLANS

UTILITY NOTES

COMED COMPANY WIRES ARE NOT INSULATED AND EXTRA CAUTION AND VIGILANCE MUST BE ADHERED TO WHEN WORKING AROUND THEM, CONTRACTORS SHOULD ALWAYS USE CAUTION IN OPERATING CRANES AND OR OTHER EQUIPMENT NEAR OVERHEAD ELECTRICAL FACILITIES. THE OCCUPATIONAL HEALTH AND SAFETY ORGANIZATION (OSHA) RULES REQUIRE THAT WORKERS AND EQUIPMENT SHALL NOT APPROACH WITHIN TEN (10) FEET AWAY OF OVERHEAD ELECTRICAL EQUIPMENT WITHOUT APPROPRIATE SUPPLEMENTAL PROTECTION, PLEASE BE CERTAIN THAT ALL WORKERS ON THIS PROJECT HAVE BEEN FULLY TRAINED AND CONFORM TO OSHA RULES AND OTHER APPLICABLE GUIDELINES REGARDING WORKING SAFELY AROUND ELECTRICAL POWER

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND MCHENRY COUNTY.

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

THIS PROJECT WILL REQUIRE AUTHORIZATION UNDER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) SWPPP PERMIT.

THE GENERAL CONTRACTOR IS RECHIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER. DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT I TYPICAL PAVEMENT MARKING.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 (OFFICE) OR (847) 715-8414 (CELL). A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATING PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FULFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF APPROVED MIX DESIGN. PLAN DIMENSIONS, AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURE.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.

NO COMMITMENTS HAVE BEEN MADE ON THIS PROJECT.

FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EXPOXY COATED, UNLESS NOTED ON THE PLAN.

POROUS GRANULAR EMBANKMENT, SUBGRADE AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER, IF UNSUITABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT, REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVABLE AND DISPOSAL OF UNSUITABLE MATERIAL".

COUNTY

MCHENRY 65 2

CONTRACT NO. 60K20

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FILE NAME :	USER NAME = obrough	DESIGNED -	REVISED - AHA 01/25/13
si\p=.work\pwidot\abrauah\das99287\Pii4	25-DESIGN.dgn	DRAWN -	REVISEO -
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	PLOT DATE + 11/1/2013	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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į	SCALE	SHEET NO.	OF.	SHEETS	STA.	TO STA.	1	ILLINOIS FEO. A	D PROJECT

		ang ay ang			80% FED	ONSTRUCT	ON TYPE	CODE	T				-			ONSTRUCT	ION TYPE	CODE	
	SUMMARY OF QUANTITIE	S	URBAN	80% FED 20% STATE	SUZ FED S. 32 STATE 6. 72 VILLAGE OF PRAIRIE GROVE	100%			***************************************	designations of the second	SUMMARY OF QUANTITIES	5	URBAN	80% FED	80% FED 13.3% STATE 6.7% VILLAGE OF PRAIRIE GROVE	1002	Address of the contract of the		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	7. S. SIGNAL 0021					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	T.S. SIGNAL 0021	EVP 0021			
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	217	217						* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	120	120					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	190.5	190.5						25100630	EROSION CONTROL BLANKET	SO YD	7175	7175					
20101000	TEMPORARY FENCE	FOOT	1657	1657						28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	148	148	······································				
20101700	SUPPLEMENTAL WATERING	UNIT	2	2						28000305	TEMPORARY DITCH CHECKS	FOOT	660	660					

20200100	EARTH EXCAVATION	CU YD	3795	3795						28000400	PERIMETER EROSION BARRIER	FOOT	1887	1887					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	1981	1981						28000500	INLET AND PIPE PROTECTION	EACH	2	2					
	WATERIAL																		
										28000510	INLET FILTERS	EACH	17	17					
20800150	TRENCH BACKFILL	CU YD	78.5	78.5				· ·										:	
						Ţ,	-			28100105	STONE RIPRAP, CLASS A3	SO YD	26.4	26.4					
21001000	GEOTECHNICAL FABRIC FOR GROUND	SO YD	4934	4934			-												ļ
	STABILIZATION								for a section of the	28200200	FILTER FABRIC	SO YD	26.4	26.4				·	
21101625	TOPSOIL FURNISH AND PLACE. 6"	SO YD	7175	7175						30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	184	184			* .		-
			-									1							
21101805	COMPOST FURNISH AND PLACE, 2"	SO YO	758	758		-				30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	4934	4934					<u> </u>
25000210	SEEDING, CLASS 2A	ACRE	1. 33	1.33						31101195	SUBBASE GRANULAR MATERIAL. TYPE B 3 (/2"	SO YD	1003	1801					<u> </u>
235002.10	JELOING CEAST EN			1.77						31101133	SUDDASE UNANDEMN MATERIAL, TIFE B 3 (72	30 10	1801	1001					
25000312	SEEDING. CLASS 4A	ACRE	0.16	0.16															
										35501302	HOT-MIX ASPHALT BASE COURSE. 4 1/2"	SO YD	188	188					<u> </u>
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	120	120					1	400									-
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	120	120			······································		ļ.,	35501316	HOT-MIX ASPHALT BASE COURSE. 8"	SO YD	350	350				····	
2										SPEC	IALTY ITEMS	.1]	<u> </u>					L
THE NAME :		DESIGNED - DRAWN -		REVISED REVISED		l			STATE OF	II I IMOIS	IL. RTE. 176	AT SMITH	ROAD		F.A.P. RTE.	SEC			TOTAL SHEETS
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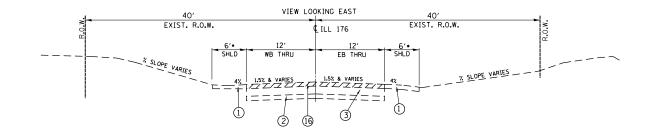
	SUMMARY OF QUANTITIES				80% FED 13.3% STATE	ONSTRUCT			-	SUMMARY OF O	DUANTITIES		of delay receipting		80% FED		ON TYPE C	JUE
	Somman of Goattilles		URBAN	20% STATE	6.7% VILLAGE OF PRAIRIE GROVE	CRYSTAL LAKE FIRE DEPT.	•					-	URBAN	20% STATE	6.7% VILLAGE OF PRAIRIE GROVE	100% CRYSTAL LAKE FIRE DEPT.		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	7. S. SIGNAL 0021	0021			CODE NO	ITEM		UNIT	TOTAL OUANTITIES	ROADWAY 0004	T.S. SIGNAL 0021	6VP 0021		
35501 320	HOT-MEX ASPHALT BASE COURSE, 9"	SO YD	2246	2246					44000165	HOT-MIX ASPHALT SURFACE REMOV	'AL. 4"	SO YO	693	693				·
		ļ									 	·						·····
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4.1	4, 1					44000200	DRIVEWAY PAVEMENT REMOVAL	<u>.</u>	SO YD	450	450				· · · · · · · · · · · · · · · · · · ·
40600300	AGGREGATE (PRIME COAT)	TON	20.5	20.5					44201721	CLASS D PATCHES, TYPE III, 6	INCH	SO YD	23	23				
40600400	MIXTURE FOR CRACKS, JOINTS,	TON	8	8			ndi reconstruito de la construito de la		44300200	STRIP REFLECTIVE CRACK CONTRO	L.	FOOT	3893	3893				<u> </u>
	AND FLANGEWAYS		<u> </u>		·					TREATMENT		<u> </u>						
		<u> </u>	<u> </u>															
40600895	CONSTRUCTING TEST STRIP	EACH	2	-2					48101500	AGGREGATE SHOULDERS. TYPE B	6"	SO YD	279	279				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	53	53			-		48203015	HOT-MIX ASPHALT SHOULDERS, 4	1/2"	SO YO	208	208				<u>.</u>
	JOINT .	<u> </u>						<u> </u>				-						
									48203019	HOT-MIX ASPHALT SHOULDERS, 5	1/2"	SO YD	1801	1801				
40603090	HOT-MIX ASPHALT BINDER COURSE,	TON	574	574					50104400	CONCRETE HEADWALL REMOVAL		EACH	2	2				•
	IL-19.0. N90									CONCILLE PLADEALE REMOVAL				<u></u>				· · · · · · · · · · · · · · · · · · ·
40603335	HOT-MIX ASPHALT SURFACE COURSE.	TON	40	40					50105220	PIPE CULVERT REMOVAL		FOOT	73, 5	73.5				
	MIX "0", N50																	
									54001001	BOX CULVERT END SECTIONS, CUL	VERT NO. 1	EACH	5	2				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	1365	1 365								-						
	COURSE, MIX "F", N90							,	54002020	EXPANSION BOLTS 3/4 INCH	· · · · · · · · · · · · · · · · · · ·	EACH	16	16				
																		
42001300	PROTECTIVE COAT	SO YD	545	545			ļ		54010303	PRECAST CONCRETE BOX CULVERTS	3. X 3.	FOOT	10	10				
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YO	4200	4200					54261618	CONCRETE END SECTION, STANDAR	D 542001.	EACH	2	2				
										18". 116								
		-								· · · · · · · · · · · · · · · · · · ·								
44000160	HOT-MIX ASPHALT SURFACE REMOVAL. 2 3/4"	SO YO	415	415					542A1063	PIPE CULVERTS. CLASS A. TYPE	2 18"	FOOT	79. 2	79. 2				***************************************
<i>S</i>				the contract of the contract o					* SPEC	IALTY ITEMS								
FILE NAME .	WARANIS99207-VII-1205-DESIGNAGO DRI	SIGNED - AWN - ECKED -		REVISED REVISED REVISED	-			STATE OF	F ILLINOIS	To the state of th	IL. RTE. 176 SUMMARY			, ,,,,,,,,,	F.A.P. RTE. 335	SECT 146N		COUNT'

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	SUMMARY OF QUANTITIES	,	URBAN	80% FED 20% STATE	80% FED 13.3% STATE 6.7% VILLAGE OF PRAIRIE GROVE	100%					SUMMARY OF QUANTITIE	ES	URBAN	20% STATE	80% FED 13.3% STATE 6.7% VILLAGE OF PRAIRIE GROVE	LAKE FIRE DEPT.		A CONTRACTOR OF THE CONTRACTOR	
CODE NO	ITEM	UNIT	TOTAL OUANTITIES	ROADWAY 0004	1.5. SIGNAL 0021				and the second s	CODE NO	ITEM	UNIT	TOTAL OUANTITIES	0004	T.S. SIGNAL 0021	EVP 0021			-
550A0380	STORM SEWERS. CLASS A. TYPE 2 18"	FOOT	1370	1370						• 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A.	FOOT	25	- 25					
											9 FOOT POSTS				-				
55101300	STORM SEWER REMOVAL 27"	FOOT	79	79										·					
										• 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	3	3					
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3	3							(SPECIAL) TANGENT								
				.:				ļ											
60107600	PIPE UNDERORAINS 4"	FOOT	467	467						63200310	GUARDRAIL REMOVAL	FOOT	226	226				7	<u> </u>
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	47	47						• 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	7740	7740			-		-
,			***************************************																
60200805	CATCH BASINS, TYPE A. 4'-DIAMETER.	EACH	8	8						• 66900450	SPECIAL WASTE PLANS AND REPORTS	E SUM	1	1	-				
	TYPE 8 GRATE																		
									ļ	• 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3					
60218400	MANHOLES, TYPE A. 4'-DIAMETER, TYPE 1	EACH	10	10															
	FRAME, CLOSED LID	<u> </u>								67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	9	9						67100100	MOBILIZATION	L SUM	1	•	 		The state of the s		
	Married 11.15 of 11.17 p.d. 11.10ml state Attach												•	•				·	-
60500060	REMOVING INLETS	EACH	2	2						70100450	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	Ì				· · · · · · · · · · · · · · · · · · ·	
											STANDARD 701201								
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	8, 1	8.1															
	·									70100460	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1					
60600605	CONCRETE CURB, TYPE B	FOOT	100	100					<u> </u>		STANDARD 701306								-
60608582	COMBINATION CONCRETE CURB AND GUTTER.	FOOT	1712	1712						70100500	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1					
	TYPE M-4, 24										STANDARD 701326								
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A.	FOOT	75	75						70102620	TRAFFIC CONTROL AND PROTECTION.	1. SUM	ļ		<u>1</u>				
0200001	6 FOOT POSTS	1 7001	13	,5						1 .0102820	STANDARD 701501	1. JUM	<u> </u>				***************************************		
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CE NAME :		ESIGNED -		REVISEO				<u> </u>	<u></u>	1,7-		76 AT SMITH	ROAD		F.A.P. RTE.	SECT	ION	COUNTY	TOTAL S
c/pw_work/pwidok/coxe		RAWN - HECKED -	·····	REVISED REVISED			1			ILLINOIS TRANSPORTA	A TREASURE	RY OF QUANT			335	1461	(-2	MCHENRY CONTRACT	65

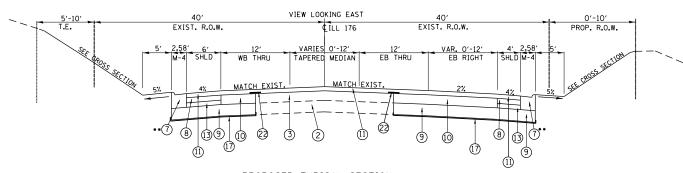
		······································	,		C	ONSTRUCT	ION TYPE	CODE						L.		ONSTRUCT	ION TYPE	CODE	
	SUMMARY OF QUANTITI	ES	URBAN	80% FED	80% FED IS 3% STATE 6.7% VILLAGE OF PRAIRIE GROVE	100% CRYSTAL LAKE FIRE DEPT.					SUMMARY OF QUANTI	ries .	URBAN	BOX FED	80% FED 13.3% STATE 6.7% VILLAGE OF PRAINIE GROVE	100%			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	7. S. SIGNAL 0021	EVP 0021				CODE NO	ITEM	UNIT	TOTAL	ROADWAY 0004	7. S. SIGNAL 0021	EVP 0021		1	
0102635	TRAFFIC CONTROL AND PROTECTION.	L SUM	1		1			7		* 78000100	THERMOPLASTIC PAVEMENT MARKING	SO FT	218.4	218.4					
	STANDARD 701701										- LETTERS AND SYMBOLS								
0300100	SHORT TERM PAVEMENT MARKING	FOOT	1464	1464						* 78000200	THERMOPLASTIC PAVEMENT MARKING	F00T	8867	8867					A 1
											- LINE 4"	-					-		
0300210	TEMPORARY PAVEMENT MARKING	SO FT	218.4	218,4															
	- LETTERS AND SYMBOLS									* 78000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	934	934					
											- LINE 6"								<u> </u>
0300220	TEMPORARY PAVEMENT MARKING	FOOT	8867	8867															
	- LINE 4"									* 78000600	THERMOPLASTIC PAVEMENT MARKING	F001	81	81					<u></u>
											- LINE 12"				, 				
0300240	TEMPORARY PAVEMENT MARKING	FOOT	934	934															
·	- LINE 6"									* 78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	90	90					
											- LINE 24"								
0300260	TEMPORARY PAVEMENT MARKING	FOOT	81	81															
	- LINE 12"									* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	117	117					
															:				
0300280	TEMPORARY PAVEMENT MARKING	FOOT	90	90						* 78200420	GUARDRAIL MARKERS. TYPE B	EACH	6	6					
	- LINE 24"																		
										* 78201000	TERWINAL MARKER - DIRECT APPLIED	EACH	3	3					
0301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	163	163															
•										78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	95	95					
72000100	SIGN PANEL - TYPE 1	SO FT	21.8		21.8			A A A A A A A A A A A A A A A A A A A			REMOVAL								
,																			
72000200	SIGN PANEL - TYPE 2	SO FT	32	32				***************************************		80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1				
													<u> </u>						<u> </u>
72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	24. 2	24. 2						81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL	. F00T	1701		1701				
			1 .		-		to conjust to the con				2" DIA.		-						- Annual
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	<u> </u>	1		ALL STATES AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT AS				* < PEC	IALTY ITEMS		<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u>L</u>
LE NAME :	USER NAME = abrauen	DESIGNED -		REVISED	-	***************************************		1		1//		E. 176 AT SMITH	RAAN		F.A.P.	SEC	TION	COUNTY	TOTAL SHEETS
	voithdrus 99207 \P144205-DESKSH, ign PLQT SCALE = 100,000 ' / In	DRAWN - CHECKED -		REVISED REVISED	-					ILLINOIS TRANSPORTA	0.00	E. 176 AT SWITH MARY OF QUAN			335	146	N-2	MCHENRY CONTRACT	65

					C	ONSTRUCT	ION TYPE	CODE					1	ļ	<u>C</u>	ONSTRUCTION	N TYPE CODE	
	SUMMARY OF QUANTITIES	-	URBAN	80% FED 20% STATE	80% FED IL 3% STATE 6.7% VILLAGE OF PRAIRIE GROVE	CRYSTAL LAKE FIRE DEPT.				-	SUMMARY OF QUANTITIES		URBAN		80% FED 13.3% STATE 6.7% VILLAGE OF PRAIRIE GROVE	CRYSTAL LAKE FIRE DEPT.		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004	T.S. SIGNAL 0021	EVP 0021			co	ODE NO		UNIT	TOTAL QUANTITIES	0004	T.S. SIGNAL 0021	0021		
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	18		18				* 87	7301805	ELECTRIC CABLE IN CONDUIT. SERVICE. NO. 6	FOOT	30		30			
	2 1/2" DIA.						-				2 C							
31028220	UNDERGROUND CONDUIT, GALVANIZED STEEL.	FOOT	1 35		135		- 		• 87:	7301900	ELECTRIC CABLE IN CONDUIT. EQUIPMENT	FOOT	415		415	- And the state of		
	3" DIA.										GROUNDING CONDUCTOR, NO. 6 1C							
31028240	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	229		229				* 875	7502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	1		1			
	4" DIA.										14 FT.							
		·																
31400100	HANDHOLE	EACH	5		5				* 87	7502500	TRAFFIC SIGNAL POST. GALVANIZED STEEL	EACH	1		1			
31400200	HEAVY-DUTY HANDHOLE	EACH	3		3						10 * 1.		<u> </u>					
									* 871	7700150	STEEL MAST ARM ASSEMBLY AND POLE. 22 FT.	EACH	1		1			
31400300	DOUBLE HANDHOLE	EACH	1		1													
36400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1				● 877	7700170	STEEL WAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1			
37301225	ELECTRIC CABLE IN CONQUIT. SIGNAL NO. 14	FOOT	274			274												
	3C								• 871	7700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1			
															-			
37301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT	1234		1234					:								
	5C						-		* 878	7800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		. 8			
37301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT	738		738		-		* 878	7800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
	7C					-					· · · · · · · · · · · · · · · · · · ·							
									* 878	7800400	CONCRETE FOUNDATION, TYPE E 30-INCH	FOOT	30		30			
37301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14	FOOT	932		932						DIAMETER							
	I PAIR			TANKS TO LEGISLATION OF THE PARTY OF T		AND												
											SELECTIVE CLEARING [ALTY ITEMS	UNIT	7, 1	7. 1		1		
LE NAME :		SIGNEO -		REVISED							IAL I I I I I I I I I I I I I I I I I I	AT SMITH	ROAD	·	F.A.P. RTE. 335	SECTIO		
pw_work/pwidd/ob/eu	PLOT SCALE + 100,000 / In CH	AWN - ECKEO -		REVISED REVISED			r	STAT DEPARTMENT	E OF ILLING		CURANZADIO	OF QUANT			335	[46N-	MCHENR	Y 65

SUMMARY OF QUANTITIES	······································		·			C	ONSTRUCTI	ON TYPE COD)E				<u> </u>		C	ONSTRUCTI	ON TYPE	CODE	
Company Comp		SUMMARY OF QUANTITIES			80% FED . 20% STATE	3.3% STATE 6.7% VILLAGE OF PRAIRIE	too: I				SUMMARY OF QUANTITIES	5	URBAN	80% FED	13.3% STATE 6.7% VILLAGE OF PRAIRIE	100% CRYSTAL LAKE FIRE DEPT.			
MCC1-WIN MONTED	DDE NO	[TEM	UNIT		0004		EAb			CODE NO	1TEM	UNIT		0004		EAB	į	,	
Bank Percent Secret Se	030020	SIGNAL HEAD, LED. 1-FACE, 3-SECTION,	EACH	4		4		Артионности		* A2002820	TREE. CATALPA SPECIOSA (NORTHERN	EACH	3	3					
		MAST-ARM MOUNTED									CATALPA), 2-1/2" CALIPER, BALLED AND				· · · · · · · · · · · · · · · · · · ·				
BRACKET WALNETED	***************************************										BURLAPPED								
MODIFIED MARKET MANAGEMENT, 2" CALIFFE, BALLED MOD MARKET MANAGEMENT MA	030050	SIGNAL HEAD. LED. 1-FACE. 3-SECTION.	EACH	2		2													
		BRACKET MOUNTED								* A2002916	TREE. CELTIS OCCIDENTALIS (COMMON	EACH	4	4					
MAST-HAW WORTED MAST-HAW WORTED Master Ma											HACKBERRY), 2" CALIPER, BALLED AND								
NOTICE N	030110	SIGNAL HEAD, LED. 1-FACE, 5-SECTION.	EACH	2		2					BURLAPPED								
		MAST-ARM MOUNTED				-													
BRACKET MOUNTED	·									• A2005020	TREE. GYMNOCLADUS DIDICUS (KENTUCKY	EACH	2	2					
18000200 STOWAL READ, LED, 2-FACE, 5-SECTION. 18000200 STOWAL READ, LED, 2-FACE, 5-SECTION. 18000210 STOWAL READ, LED, LED, STOWAL READ, LED, STOWAL R	030210	SIGNAL HEAD. LED. 2-FACE, 3-SECTION.	EACH	ı		. 1					COFFEETREE). 2-1/2" CALIPER, BALLED								
BRACKET MOUNTED X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BRACKET MOUNTED									AND BURLAPPED								
BRACKET MOUNTED X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 4 4 4 X7240900 RELOCATE SIGN PANEL AND POST EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			<u> </u>																
NECOSIO TRAFFIC SIGNAL BACKPLATE, LOUVERD, EACH 6 6 6 6 6 6 6 6 6	030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION,	EACH	1		1				X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2					
RECORD REACH		BRACKET MOUNTED																	
ALMINAM * X8570226 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 1 1 CABINET. SPECIAL ** CA						-				x7240505	RELOCATE SIGN PANEL AND POST	EACH	4	4					
CABINET, SPECIAL CABINET, SPE	200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED,	EACH	6		6													
NOUCTIVE LOOP DETECTOR		ALUMINUM								• x8570226	FULL-ACTUATED CONTROLLER AND TYPE IV	EACH	1		1				[
** X8620200 UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											CABINET, SPECIAL								ļ
1	500100	INDUCTIVE LOOP DETECTOR	EACH	5		5					,								
** X8730250 ELECTRIC CABLE IN CONDUIT NO. 20 3/C, FOOT 274 274 274 274 274 274 274 274 274 274										* ×8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		*				Ĺ
18700200 LIGHT DETECTOR	600100	DETECTOR LOOP. TYPE I	FOOT	476		476					·						and the second		
18700300 LIGHT DETECTOR AMPLIFIER EACH 1 1 1 Δ Z0005305 BOX CULVERTS TO BE CLEANED FOOT 50 50 Δ Ω Z0005305 TREE, ACER SACCHARUM GREEN MOUNTAIN EACH 6 6 Δ Z001379B CONSTRUCTION LAYOUT L SUM 1 1 Ω Ω Z001379B CONSTRUCTION LAYOUT L SUM 1 1 Ω Z001379B CONSTRUCTI										◆ x8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C.	FOOT	274			274			ļ
	700200	LIGHT DETECTOR	EACH	2			2				TWISTED, SHIELDED	-							ļ
			<u> </u>																
TREE, ACER SACCHARUM GREEN MOUNTAIN (GREEN MOUNTAIN SUGAR MAPLE). 2-1/2" CALIPER, BALLED AND BURLAPPED TREE, ACER SACCHARUM GREEN MOUNTAIN (GREEN MOUNTAIN SUGAR MAPLE). 2-1/2" CALIPER, BALLED AND BURLAPPED TRAINEES - TRAINING PROGRAM GRADUATE TOUTION LAYOUT L SUM 1 1 1 TRAINEES - TRAINING PROGRAM GRADUATE TOUTION STATE)	700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1	The state of the s		~									
CALIPER, BALLED AND BURLAPPED CALIPER, BALLED AND BURLAPPED CONTINUES - TRAINING PROGRAM GRADUATE TRAINEES - TRAINING PROGRAM GRADUATE TRAINEES - TRAINING PROGRAM GRADUATE TRAINEES - TRAINING PROGRAM GRADUATE TOO 1000 SOFT 77.1 77.1 SOFT 17.1 77.1			-										1000						
CALIPER, BALLED AND BURLAPPED CALIPER, BALLED AND BURLAPPED SOFT 77.1 77.1 77.1 77.1 SOFT 17.1 7 7 7 1	001820		EACH	6	6					Z0013798									
• SPECIALTY ITEMS A NON-PARTICIPATING (100% STATE)											PROGRAM GRADUATE			 					ļ
SPECIALIT LIEMS A NUN-PARTICIPATING (100% STATE)		CALIPER. BALLED AND BURLAPPED											L	L	100"	CTAT			<u>.</u>
LE NAME : USER NAME : GYGUN DESIGNED - REVISED . CON	NAME :	USER NAME : GOODON DECI	J		REVISED					SPEC	**************************************		 	1110 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	Ø 00	4/Z
STAIL OF ILLINOIS OURANADU DE OURANTITIES 335 146N-2 MCH		condmiss207-PH4205-DESGNagon DRAM	N -	·	REVISED	-					CLIMBRADO				8TE. 335		i-2	COUNTY S MCHENRY CONTRACT	65



EXISTING TYPICAL SECTION ILL 176-WEST LEG
STA. 247+80 TO STA. 250+25



PROPOSED TYPICAL SECTION ILL 176-WEST LEG
STA. 247+80 TO STA. 250+25

*SEE CROSS SECTIONS FOR SLOPE

LEGEND:

- 1) EXISTING AGGREGATE SHOULDER
- 2 EXISTING AGGREGATE SUBGRADE
- 3 EXISTING HMA BINDER COURSE 18"- 19.5" (BASED ON PHASE I CORES)
- 4 EXISTING HMA BINDER COURSE 6.5"-8"
- 5 EXISTING PCC PAVEMENT 7.5"-8.5"
- (6) EXISTING HMA BINDER 5.5"-6.75" (SMITH RD.)
- 7 PROPOSED M-4.24 MOUNTABLE CURB & GUTTER (SEE PLAN FOR LOCATION)
- (8) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 5 1/2"
- 9 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (10) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90), 9"
- (1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90 (IL 9.5 mm), 2 1/2"
- (12) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm, N90), 4 1/2" (SMITH RD. FROM STA. 117+54 TO STA. 119+88)
- (13) PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 3 1/2"
- (14) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (15) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
- (16) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- 17 PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2 1/4"
- 19 PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 4"
- PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- 2) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 4 1/2"
- PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

PROPOSED GUARDRAIL (NOT SHOWN-SEE PLAN AND CROSS SECTIONS)

PROPOSED UNDERCUTS BORING & STATION & REMEDIAL TREATMENT 176-1 247+80 TO 252+00 6" ASI RIGHT WIDENING 176-3 254+00 TO 256+50 RIGHT WIDENING 176-1 176-3 176-3 176-1

NOTE: ASI IS AGGREGATE SUBGRADE IMPROVEMENT

SCALE:

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOID @ N _{DES}
RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% © 90 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90; 2 1/4", 4"	4% @ 90 GYR
PAVEMENT WIDENING (IL 176)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90); 9"	4% @ 90 GYR
PAVEMENT WIDENING (SMITH RD.)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90); 4 1/2"	4% @ 90 GYR
DRIVEWAYS	
HMA SURFACE COURSE, MIX D, N50 (IL 9.5 mm); 2"	4% @ 50 GYR
HMA BASE COURSE (HMA BINDER IL-19 mm); CE 8"	4% @ 50 GYR
SHOULDERS	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 5 1/2", 4 1/2"	4% @ 50 GYR
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

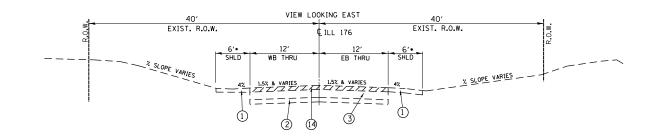
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/ SO YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

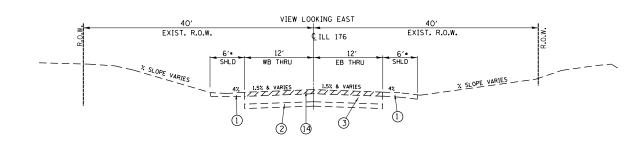
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c:\pw_work\pwidot\abreuah\dms99207\P1142	Ø5-DESIGN.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

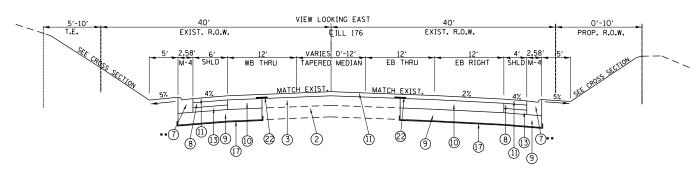
ILL 17	6 AT	SMITH	ROAD)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
TV	PICΔI	SECTIO	2NC		335	146N-2	MCHENRY	65	9
	10712						CONTRACT	NO. 6	OK20
SHEET NO.	OF	SHEETS	STA.	TO STA.		TILINOIS EED AT	D PROJECT		



EXISTING TYPICAL SECTION ILL 176-WEST LEG STA. 250+25 TO STA. 251+25 STA. 253+75 TO STA. 254+40

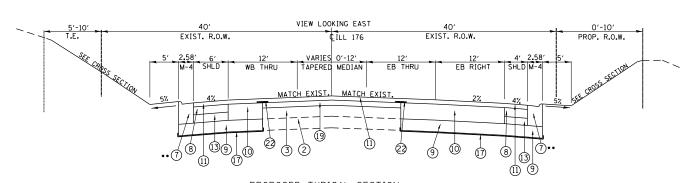


EXISTING TYPICAL SECTION ILL 176-WEST LEG
STA. 251+25 TO STA. 253+75



PROPOSED TYPICAL SECTION ILL 176-WEST LEG
STA. 250+25 TO STA. 251+25
STA. 253+75 TO STA. 254+40

*SEE CROSS SECTIONS FOR SLOPE



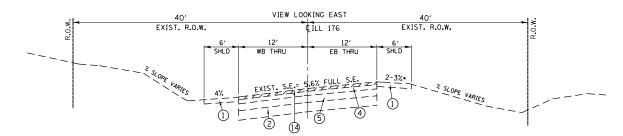
PROPOSED TYPICAL SECTION ILL 176-WEST LEG STA. 251+25 TO STA. 253+75

LEGEND:

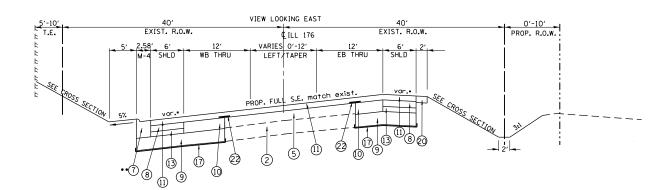
- 1) EXISTING AGGREGATE SHOULDER
- (2) EXISTING AGGREGATE SUBGRADE
- (3) EXISTING HMA BINDER COURSE 18"- 19.5" (BASED ON PHASE I CORES)
- 4 EXISTING HMA BINDER COURSE 6.5"-8"
- 5 EXISTING PCC PAVEMENT 7.5"-8.5"
- 6 EXISTING HMA BINDER 5.5"-6.75" (SMITH RD.)
- 7 PROPOSED M-4.24 MOUNTABLE CURB & GUTTER (SEE PLAN FOR LOCATION)
- (8) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 5 1/2"
- 9 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 10 PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90), 9"
- 1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90 (IL 9.5 mm), 2 1/2"
- (12) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm, N90), 4 1/2" (SMITH RD. FROM STA. 117+54 TO STA. 119+88)
- (13) PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 3 1/2"
- (14) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- 15 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
- 16 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- (17) PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2 1/4"
- (19) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 4"
- PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- 21) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 4 1/2"
- 22 PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

PROPOSED GUARDRAIL (NOT SHOWN-SEE PLAN AND CROSS SECTIONS)

FILE NAME =	USER NAME = abrevah	DESIGNED -	REVISED -			ILL 176 AT SMITH ROAD		F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEET NO.
c:\pw_work\pwidot\abreuah\dms99207\Pl142	Ø5-DESIGN.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TYPICAL SECTIONS SCALE: SHEET NO. OF SHEETS STA. TO STA.		335	146N-2	MCHENRY	65 10	
	PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 60K20
	PLOT DATE = 12/12/2012	DATE -	REVISED -				TO STA.		ILLINOIS FED.	AID PROJECT	



EXISTING TYPICAL SECTION
ILL 176-EAST LEG
STA. 254+40 TO STA. 254+75
STA. 256+25 TO STA. 256+75



PROPOSED TYPICAL SECTION
ILL 176-EAST LEG
STA. 254+40 TO STA. 254+75
STA. 256+25 TO STA. 256+75••

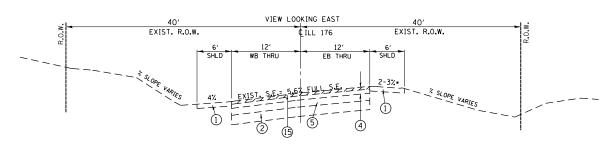
*SEE CROSS SECTIONS FOR SLOPE

LEGEND:

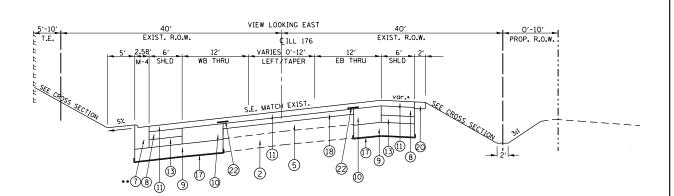
- 1 EXISTING AGGREGATE SHOULDER
- 2 EXISTING AGGREGATE SUBGRADE
- 3 EXISTING HMA BINDER COURSE 18"- 19.5" (BASED ON PHASE I CORES)
- 4 EXISTING HMA BINDER COURSE 6.5"-8"
- (5) EXISTING PCC PAVEMENT 7.5"-8.5"
- (6) EXISTING HMA BINDER 5.5"-6.75" (SMITH RD.)
- (7) PROPOSED M-4.24 MOUNTABLE CURB & GUTTER (SEE PLAN FOR LOCATION)
- (8) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 5 1/2"
- (9) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (10) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90), 9"
- (11) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90 (IL 9.5 mm), 2 1/2"
- (2) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm, N90), 4 1/2" (SMITH RD. FROM STA. 117+54 TO STA. 119+88)
- (13) PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 3 1/2"
- (14) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- 15) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
- (16) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- 17) PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2 1/4"
- 19 PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 4"
- PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 4 1/2"
- 22 PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

PROPOSED GUARDRAIL (NOT SHOWN-SEE PLAN AND CROSS SECTIONS)





EXISTING TYPICAL SECTION ILL 176-EAST LEG STA. 254+75 TO STA. 256+25



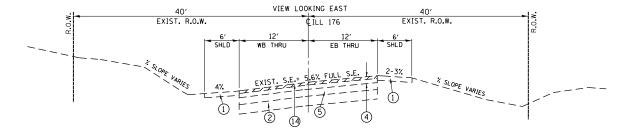
PROPOSED TYPICAL SECTION ILL 176-EAST LEG STA. 254+75 TO STA. 256+25

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -	
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	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -	
	PLOT DATE = 12/12/2012	DATE -	REVISED -	

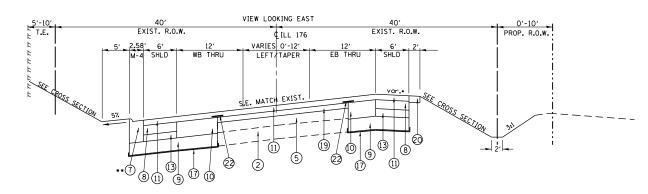
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

ILL 170	6 AT	SMITH	ROA	.D	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
TYF	PICΔI	SECTIO	วพร		335	146N-2	MCHENRY	65	11
	.0712						CONTRACT	NO. 6	OK20
SHEET NO	ΩF	SHEETS	STA	TO STA		TILL INDIC EED AT	D DDO IECT		



EXISTING TYPICAL SECTION ILL 176-EAST LEG STA. 256+75 TO STA. 262+58



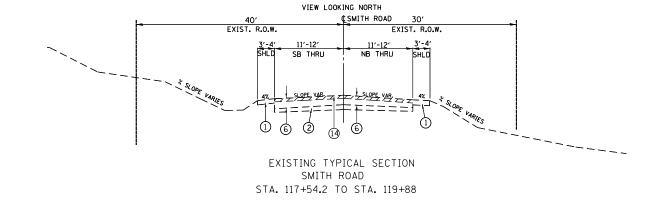
PROPOSED TYPICAL SECTION ILL 176-EAST LEG STA. 256+75 TO STA. 262+58

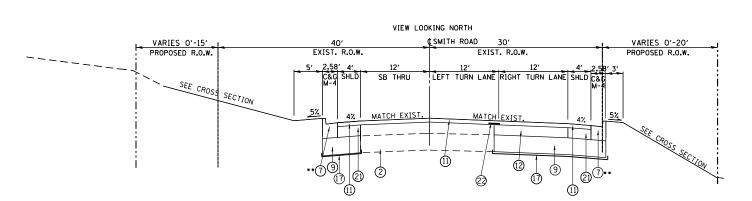
*SEE CROSS SECTIONS FOR SLOPE

LEGEND:

- 1) EXISTING AGGREGATE SHOULDER
- 2 EXISTING AGGREGATE SUBGRADE
- 3 EXISTING HMA BINDER COURSE 18"- 19.5" (BASED ON PHASE I CORES)
- 4 EXISTING HMA BINDER COURSE 6.5"-8"
- 5 EXISTING PCC PAVEMENT 7.5"-8.5"
- 6 EXISTING HMA BINDER 5.5"-6.75" (SMITH RD.)
- 7) PROPOSED M-4.24 MOUNTABLE CURB & GUTTER (SEE PLAN FOR LOCATION)
- (8) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 5 1/2"
- 9 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (10) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90), 9"
- 1) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90 (IL 9.5 mm), 2 1/2"
- (12) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm, N90), 4 1/2" (SMITH RD. FROM STA. 117+54 TO STA. 119+88)
- 13 PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 3 1/2"
- 14 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (15) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
- (16) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- 17 PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2 1/4"
- (19) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 4"
- 20 PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- (2) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 4 1/2"
- 2 PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

PROPOSED GUARDRAIL (NOT SHOWN-SEE PLAN AND CROSS SECTIONS)





PROPOSED TYPICAL SECTION SMITH ROAD STA. 117+54.2 TO STA. 119+88

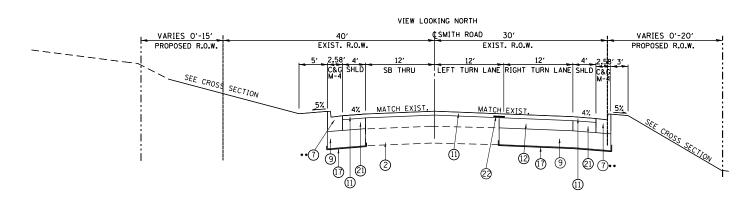
FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -			ILL 176 AT SMITH	ROAD		F.A.P.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\abreuah\dms99207\P114	05-DESIGN.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TYPICAL SECTION			335	146N-2	MCHENRY 65 12
	PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TITICAL SECTIONS					CONTRACT NO. 60K20	
	PLOT DATE = 12/12/2012	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

EXISTING TYPICAL SECTION SMITH ROAD STA. 119+88 TO IL 176

40' EXIST. R.O.W. VIEW LOOKING NORTH

¢SMITH ROAD

EXIST. R.O.W.



PROPOSED TYPICAL SECTION SMITH ROAD STA. 119+88 TO IL 176

•SEE CROSS SECTIONS FOR SLOPE

LEGEND:

- 1 EXISTING AGGREGATE SHOULDER
- 2 EXISTING AGGREGATE SUBGRADE
- 3 EXISTING HMA BINDER COURSE 18"- 19.5" (BASED ON PHASE I CORES)
- 4 EXISTING HMA BINDER COURSE 6.5"-8"
- 5 EXISTING PCC PAVEMENT 7.5"-8.5"
- 6 EXISTING HMA BINDER 5.5"-6.75" (SMITH RD.)
- 7 PROPOSED M-4.24 MOUNTABLE CURB & GUTTER (SEE PLAN FOR LOCATION)
- 8 PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 5 1/2"
- (9) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 10 PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90), 9"
- 11) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90 (IL 9.5 mm), 2 1/2"
- (12) PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm, N90), 4 1/2" (SMITH RD. FROM STA. 117+54 TO STA. 119+88)
- (13) PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 3 1/2"
- 14) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (15) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
- (16) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- 17 PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (18) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2 1/4"
- (19) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 4"
 (20) PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- (2) PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 4 1/2"
- 22 PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

PROPOSED GUARDRAIL (NOT SHOWN-SEE PLAN AND CROSS SECTIONS)

FILE NAME =	USER NAME = abrevah	DESIGNED -	REVISED -			ILL 176 AT SMITH ROAD		F.A.P.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\abreuah\dms99207\Pl142	Ø5-DESIGN.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TYPICAL SECTIONS		335	146N-2	MCHENRY	65	13	
	PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRAC	T NO. 6	JK20
	PLOT DATE = 12/12/2012	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

					EARTHWORK	(***************************************
1	2		3		4			5		5	7		
	CUT	Т	UNSUITA	BLE	FILI	_	ADJUS	STMENT	EARTH	WORK	TOP	SOIL	
	EART	ГН	MATERI	AL	EMBAN	KMENT	FC	PR	BALA	NCE	FURN	ISH &	
ILL 176 AT SMITH ROAD	EXCAVA	TION					SHRIN	KAGE	WASTE	E (+)	PLA	CE	
									SHORTA	GE (-)			
	(CUY	(D)	(CU YI))	(CU)	/D)	(CU	YD)	(CU)	(D)	(SQ	YD)	
	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I F	RIGHT STAGE II	LEFT STAGE	RIGHT STAGE II	EFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	
ILL 176 (STA. 247+80 TO STA. 248+00)	17	6	9	11		16	14.5	5.1	14.5	-10.9)		
ILL 176 (STA. 248+00 TO STA. 248+60.73)	18			29		31	15.3	18.7	7.3	-12.3	3		
ILL 176 (STA. 248+60.73 TO STA. 249+00)	14			15		5	11.9	+					
ILL 176 (STA. 249+00 TO STA. 250+00)	71	163	48	53		1	60.4	138.6	58.4	137.6	5		***************************************
ILL 176 (STA. 250+00 TO STA. 250+67.57)	25		14	46		0	21.3						***************************************
ILL 176 (STA. 250+67.57 TO STA. 250+87)	1	30		13	2	0	0.9	25.5					***************************************
ILL 176 (STA. 250+87 TO STA. 251+00)	1	17	0	8	1	0	0.9	14.5	-0.2	14.5	5		
ILL 176 (STA. 251+00 TO STA. 252+00)	46		27	59		0	39.1	142.8	39.1	142.8	3		
ILL 176 (STA. 252+00 TO STA. 253+00)	166		66	71	0	0	141.1	206.6	141.1	206.6	5		
ILL 176 (STA. 253+00 TO STA. 254+00)	214	216		81	0	0	181.9	183.6	181.9	183.6	5		
ILL 176 (STA. 254+00 TO STA. 254+41.94)	75	34	26	19		0	63.8	28.9	63.8	28.9)		
ILL 176 (STA. 254+41.94 TO 255+00)	79	8	34	20		36	67.2	6.8	67.2	-29.2	2		
ILL 176 (STA. 255+00 TO STA. 256+00)	138	44	56	59	0	70	117.3	37.4	117.3	-32.6	5		
ILL 176 (STA. 256+00 TO STA. 257+00)	199			41			169.2						
ILL 176 (STA. 257+00 TO STA. 258+00)	188			39		30	159.8	<u> </u>	<u> </u>		_		***************************************
ILL 176 (STA. 258+00 TO STA. 259+00)	127			48		64	108.0	22.1	108.0	-41.9)		
ILL 176 (STA. 259+00 TO STA. 260+00)	72		51	52		100	61.2	20.4	42.2	-79.6	5		
ILL 176 (STA. 260+00 TO STA. 261+00)	40			54		98	34.0	19.6	-18.0		-		***************************************
ILL 176 (STA. 261+00 TO STA. 262+00)	28			55	43	69	23.8	+					
ILL 176 (STA. 262+00 TO STA. 262+58.14)	17	19	20	31	6	16	14.5	16.2	8.5	0.1			A
							0.0						***************************************
							0.0	0.0					
							0.0				_		***************************************
							0.0	-					
SUB-TOTAL	1536	1309	712	804	141	554	1305.6	1112.7	1164.6	558.7	2640.4	2640.7	***************************************

COLUMN 1: LOCATION FROM PLANS COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL COLUMN 3: CUT MATERIAL THAT IS DETERMINED TO BE EITHER

UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT, ASSUME 6" OF UNSUITABLE MATERIAL

COLUMN 4: QUANTITIES FROM CROSS SECTIONS (FILL)

COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%

COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGETIVE QUANTITY= FURNISHED EXCAVATION NEEDED

COLUMN 7: TOPSOIL FURNISH AND PLACE = AREA OF SEEDING AND

SCALE:

- 1	FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -	
- [-	c:\pw_work\pwidot\abreuah\dms99207\Pl142	Ø5-DESIGN.dgn	DRAWN -	REVISED -	STATE OF IL
		PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRA
		PLOT DATE = 12/12/2012	DATE -	REVISED -	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

ILL 1	76 A	т ѕміті	H ROA	D	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
SCHE	DULE	OF QUA	ANTITIE	ES	335	146N-2	MCHENRY	65	1-
							CONTRACT	NO.	50K2
SHEET NO.	OF	SHEETS	STA.	TO STA.		TILLINOIS FED. A	ID PROJECT		

					EARTHWOR	K							
1	2		3	3	4			5	6		7	,	***************************************
	CU	T	UNSUI ⁻	TABLE	FIL	Ĺ	ADJUS	STMENT	EARTHV	VORK	TOP:	SOIL	
	EAR ⁻	ГН	MATE	RIAL	EMBAN	IKMENT	FC)R	BALAN	ICE	FURN	ISH &	***************************************
ILL 176 AT SMITH ROAD	EXCAVA	TION					SHRIN	KAGE	WASTE	(+)	PLA	ACE .	***************************************
									SHORTA	GE (-)			***************************************
	(CUY	′D)	(CU	YD)	(CU	YD)	(CU	YD)	(CU Y	D)	(SQ	YD)	***************************************
	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	LEFT STAGE I	RIGHT STAGE II	***************************************
Smith Rd.(STA. 117+54 TO STA. 118+00)	16	7	18	14	2.2	2 6	13.6	6.0	11.4	0.0)		***************************************
Smith Rd.(STA. 118+00 TO STA. 119+00)	159	23	54	35	1	. 11	135.2	19.6	134.2	8.6	5		***************************************
Smith Rd.(STA. 119+00 TO STA. 119+88)	271	96	70	43	0.85	0	230.4	81.6	229.5	81.6	5		
Smith Rd.(STA. 119+88 TO STA. 120+00)	29	23	11	. 8	2.15	0	24.7	19.6	22.5	19.6	5		
Smith Rd.(STA. 120+00 TO STA. 121+00)	175	106	87	66	1.7	54	148.8	90.1	147.1	36.1	-		***************************************
Smith Rd.(STA. 121+00 TO STA. 121+37)	39	6	15	26	C	54	33.2	5.1	33.2	-48.9			***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0			***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		***************************************
							0.0	0.0	0.0	0.0)		
							0.0	0.0	0.0	0.0)		
							0.0	0.0	0.0	0.0)		
							0.0	0.0	0.0	0.0			
							0.0	0.0	0.0	0.0)		
							0.0	0.0	0.0	0.0			***************************************
							0.0	0.0	0.0	0.0)		
SUB-TOTAL	689	261	. 255	192	7.9	125	585.7	221.9	577.8	96.9	1296.8	596.4	

COLUMN 1: LOCATION FROM PLANS
COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH
DOES NOT INCLUDE UNSUITABLE MATERIAL
COLUMN 3: CUT MATERIAL THAT IS DETERMINED TO BE EITHER
UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT,
ASSUME 6" OF UNSUITABLE MATERIAL

COLUMN 4: QUANTITIES FROM CROSS SECTIONS (FILL)

COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%

COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY=
EXTRA EXCAVATION, NEGETIVE QUANTITY= FURNISHED
EXCAVATION NEEDED

COLUMN 7: TOPSOIL FURNISH AND PLACE = AREA OF SEEDING AND

SCALE:

	ILE NAME = USER NAME = abreuah		DESIGNED -	REVISED -						
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	PLOT SCALE = 100.000 '/ in.		CHECKED -	REVISED -	ı					
		PLOT DATE = 12/12/2012	DATE -	REVISED -						

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	ILL 176 AT SMITH ROAD						SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
SCHEDULE OF QUANTITIES					335	146N-2	MCHENRY	65	15	
_								CONTRACT	NO. 6	50K20
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

TREE REMOVAL (6 TO 15 UNITS DIAMETER)									
STATION	OFFSE	T (FT)	UNITS						
	ILL 17	'6	11.						
250+50.4	48.5	RT	9						
250+74.5	50.4	RT	9.5						
251+86.9	44.2	RT	10						
251+86.9	44.2	RT	9						
251+86.9	44.2	RT	9						
251+86.9	44.2	RT	9						
252+23	44.9	RT	13						
252+29.8	41.0	RT	6.5	MS					
252+60.3	39.1	RT	8.0						
252+60.3	39.1	RT	7.5						
255+08	35	RT	14.0						
255+37.1	37.1	RT	7						
255+40	40.0	LT	6.5						
255+58	34.0	LT	9.5	MS					
255+58	34.0	LT	9	MS					
255+70	35.0	LT	7.0						
255+80	35.0	LT	12.0	MS					
255+80	35.0	LT	9.0	MS					
255+90	37.0	LT	11						
255+90	37.0	LT	11						
256+97	34.0	LT	7.0						
257+13	30.0	LT	9.0						
257+35	32.0	LT	14.5						
SUB-TOTAL			217.0						

TREE REMOVAL (OVER 15 UNITS DIAMETER)								
STATION	OFFSE	T (FT)	UNITS					
	ILL							
251+49.5	44.4	RT	28					
255+0.7	40.1	RT	20	MS				
255+0.7	40.1	RT	16	MS				
255+35.4	35.4	RT	18					
255+21.8	37.6	RT	20.5					
256+01.5	37.9	RT	48					
259+29	37.0	LT	20	MS				
259+29	37.0	LT	20	MS				
SUB-TOTAL			190.5					

(MS) MULTI-STEMMED TREE

NOTE: TREES ON PRIVATE PROPERTY SHALL NOT BE REMOVED.

	EROSION AN	ND SEDIMENT CONTR	OL SCHEDULE	
LOCATION	INLET FILTERS (EACH)	INLET & PIPE PROTECTION (EACH)	PERIMETER EROSION BARRIER (FOOT)	TEMP. CONSTR. FENCE (FOOT)
STA. 250+1025.6 LT	1.0			
STA. 250+16.518.0 LT	1.0			
STA. 251+0319.6 LT	1.0			
STA. 252+2522.1 LT	1.0			
STA. 252+1528.4 LT	1.0			
STA. 253+39.430.8 LT	1.0			
STA. 253+4824.0 LT	1.0			
STA. 255+9031.5 LT	1.0			
STA. 256+0023.9 LT	1.0			
STA. 257+1231.5 LT	1.0			
STA. 257+22.523.9 LT	1.0			
STA. 250+84.535.4 RT	1.0			
STA. 251+0029.3 RT	1.0			
STA. 252+27.837.7 RT	1.0			
STA. 252+27.832.0 RT	1.0			
STA. 253+38.840.0 RT	1.0			
STA. 253+51.734.9 RT	1.0			
STA. 255+4533.1 RT		1.0		
STA. 258+4836.3 LT		1.0		
STA. 247+8050.0 RT TO STA. 249+0050.0 RT			120.0	
STA. 257+0045.0 LT TO STA. 262+5840.0 LT			547.0	
STA. 117+54.230.0 RT TO STA. 121+5650 RT			404.0	
STA. 254+67.050 RT TO STA. 262+5840 RT			816	
STA. 247+8040.0 LT TO STA. 248+4240.0 LT				62.4
STA. 248+7540.0 LT TO STA. 250+4640.0 LT				172.6
STA. 250+8750.0 LT TO STA. 253+9950.0 LT				312.0
STA. 253+9945.0 LT TO STA. 257+0045.0 LT				291.9
STA. 249+0050.0 RT TO STA. 253+5750.0 RT				459.0
STA. 117+54.240.0 LT TO STA. 118+5040.0 LT				96.0
STA. 118+5040.0 LT TO STA. 119+7555.0 LT				125.9
STA. 119+7555.0 LT TO STA. 121+1255.0 LT				137.2
TOTAL	17.0	2.0	1887.0	1657.0

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	PLOT DATE = 12/12/2012	DATE -	REVISED -

STATE OF ILLINOIS								
DEPARTMENT	0F	TRANSPORTATION						

SCHEDULE OF	QUANTITIES TREE REMOVA	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	ILL 176 AT SMIT			335	146N-2	MCHENRY	65	16
	ILL 170 AT SIVIL			CONTRACT	NO. 60	K20		
SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS			

		SIGN PANEL SCHEDULE							
SIGN NAME/DESCRIPTION	MUTCD CODE	SIZE W X H (INCHES)	SQFT	EACH	PAY ITEN	<u></u>			PAY ITEM
CROSS ROAD	W2-2R	36" X 36"	9.0		REMOVE	SIGN PAN	EL TYPE 1		72400310
CROSS ROAD	W2-2L	36" X 36"	9.0		REMOVE	SIGN PAN	EL TYPE 1		72400310
STOP SIGN	R1-1	30" X 30"	6.2		REMOVE SIGN PANEL TYPE 1				72400310
STOP SIGN SUPPORT				1.00	REMOVE	GROUND	MOUNT & S	SIGN SUPPORT	73700100
REVERSE CURVE	W1-4L			1.00	RELOCAT	TE SIGN PA	NEL AND P	OST	X7240505
TWO DIRECTION ARROW	W1-7			1.00	RELOCAT	TE SIGN PA	NEL AND P	OST	X7240505
SIGNAL AHEAD	W3-3	48"X48"	16.0		SIGN PA	NEL TYPE 2			72000200
SIGNAL AHEAD	W3-3	48"X48"	16.0		SIGN PANEL TYPE 2			72000200	
CROSS ROAD/STREET NAME	W2-2R			1.00	RELOCATE SIGN PANEL AND POST		X7240505		
CROSS ROAD/STREET NAME	W2-2R			1.00	RELOCAT	TE SIGN PA	NEL AND P	OST	X7240505

NOTES

ALL SIGNS THAT ARE REMOVED SHALL REMAIN THE PROPERTY OF THE STATE, THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 (OFFICE). OR (847) 715-8414 (CELL) TO NOTIFY HER THAT THE SIGNS HAVE BEEN TAKEN DOWN AND ARE READY TO BE PICKED UP.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 (OFFICE) OR (847) 715-8414 (CELL), AT LEAST 2 WEEKS PRIOR TO PLACING FINAL SIGN PANELS.

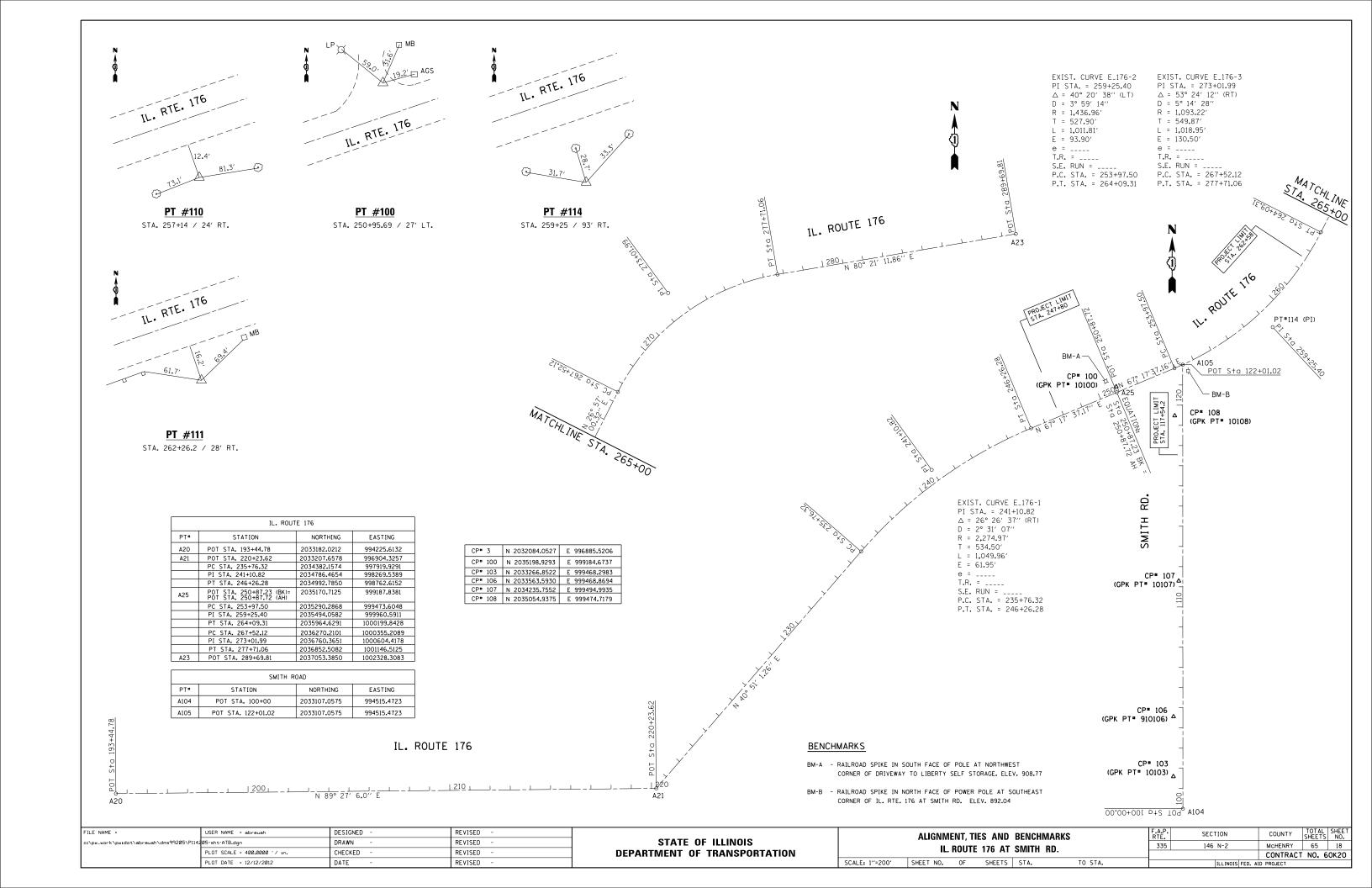
ALL SIGN PANELS TYPES, SIZES AND LOCATIONS ARE TO BE VERIFIED IN THE FIELD PRIOR TO ORDERING.

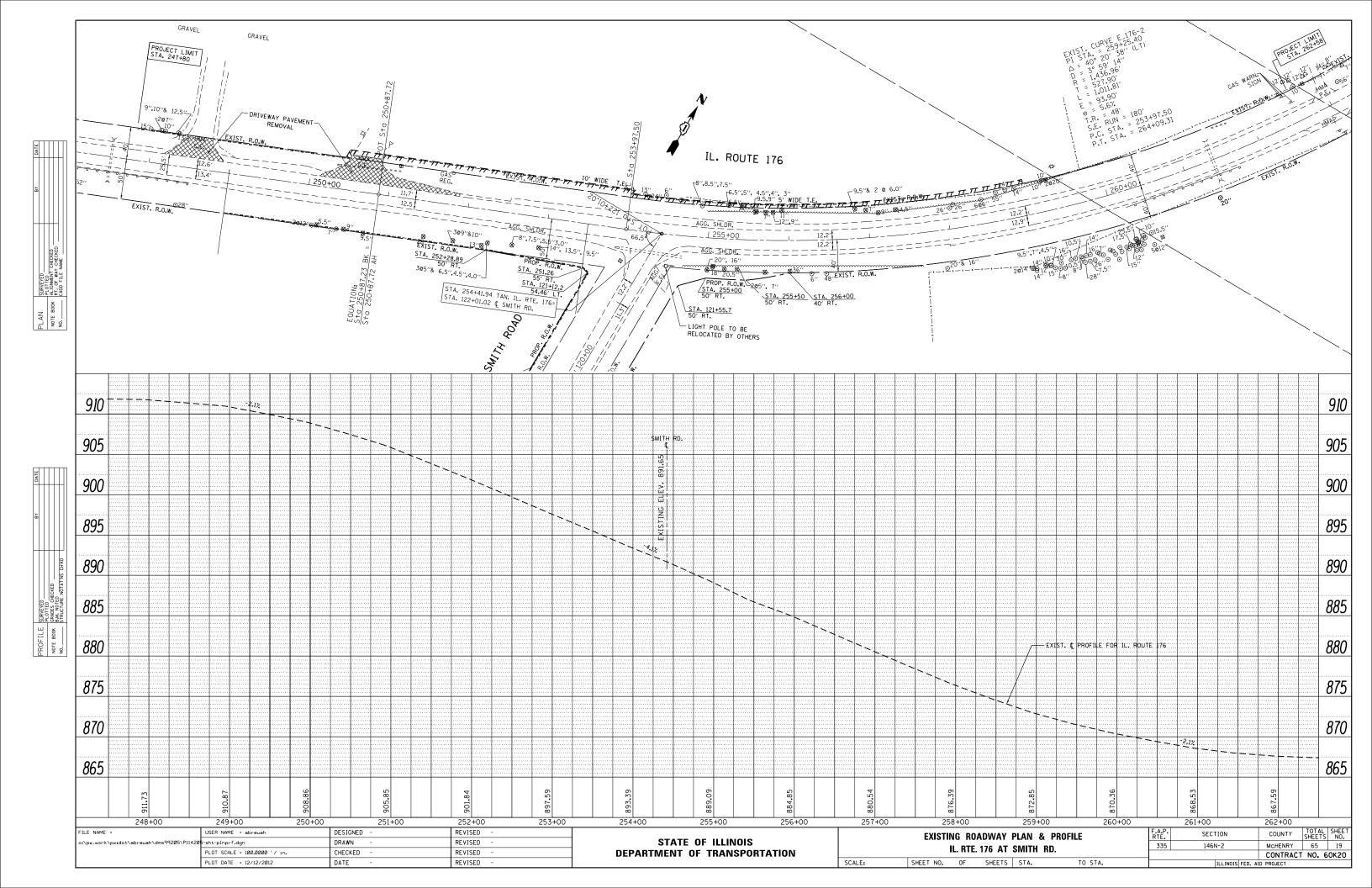
THE CROSS ROAD SIGN WILL BE REPLACED BY THE "SIGNAL AHEAD" SIGN ON THE EXISTING RELOCATED POST.

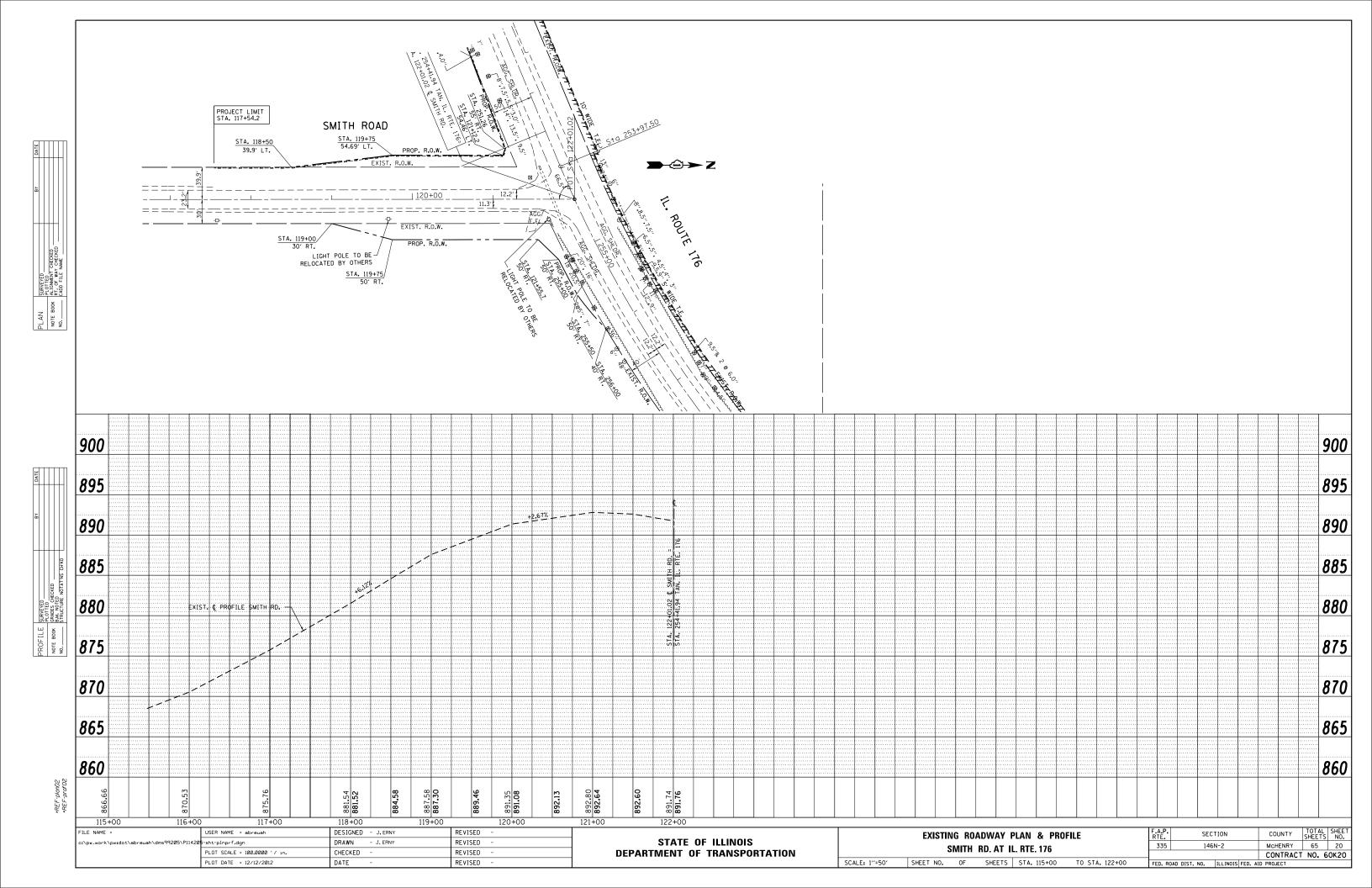
THE STOP SIGN SHALL NOT BE REMOVED UNTIL THE TRAFFIC SIGNAL HAS BEEN TURNED ON.

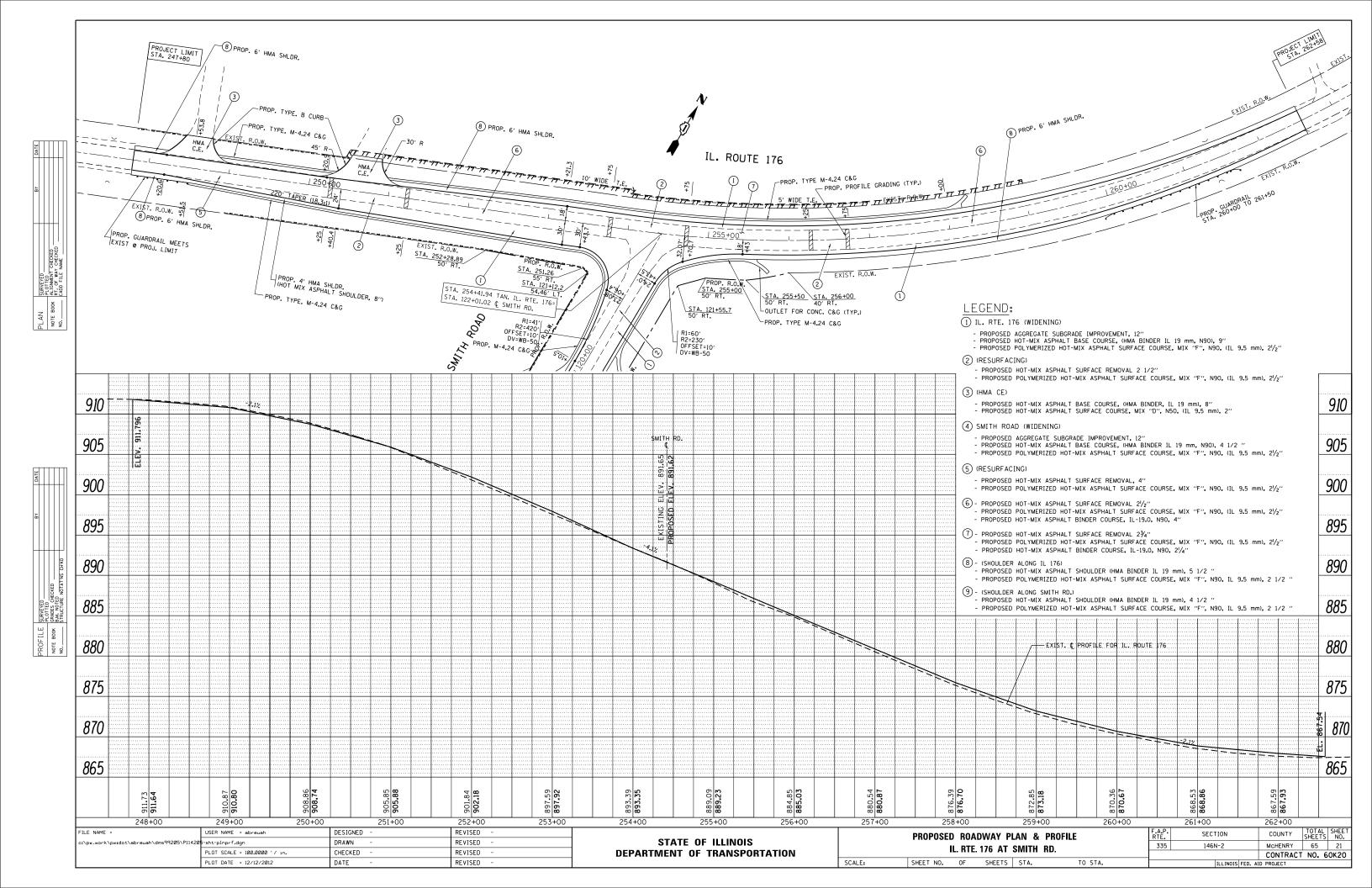
THE "SIGNAL AHEAD" SIGN SHALL BE COVERED UNTIL THE PROPOSED SIGNAL HAS BEEN TURNED ON.

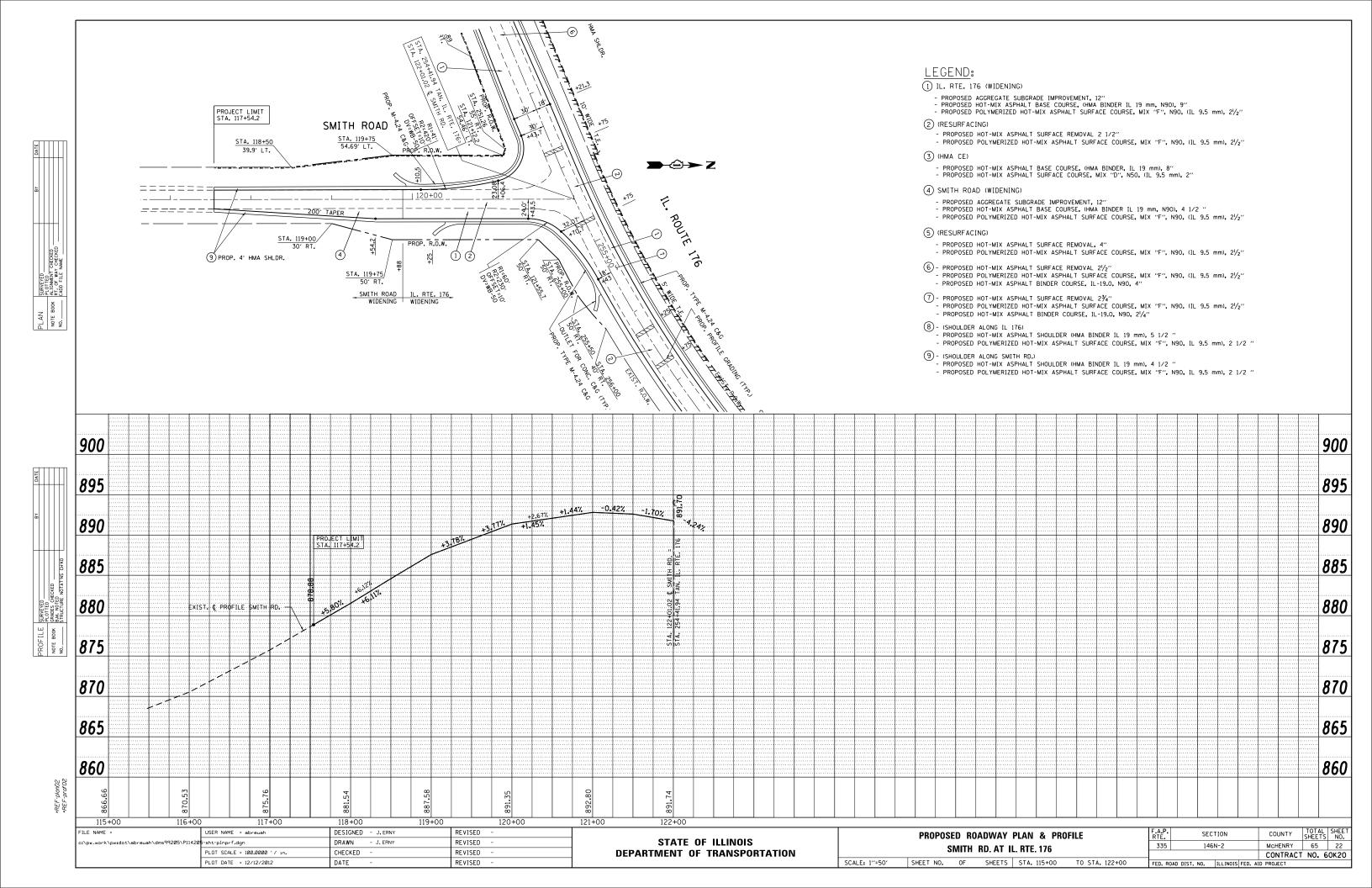
FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -			ILL 176 AT SMITH ROAD	1	F.A.P.	SECTION	COUNTY	TOTAL S	HEET NO.
c:\pw_work\pwidot\abreuah\dms99207\P114	205-DESIGN.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		SIGN PANEL SCHEDULE		335	146N-2	MCHENRY	65	17
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		Oldie TANEE GONEGOEE				CONTRACT	T NO. 60	K20
	PLOT DATE = 12/12/2012	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.				ID PROJECT		











THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.

NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE SITE OTHER THAN THROUGH A SERIES OF TEMP DITCH CHECKS. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.

THE QUANTITIES SHOWN FOR TEMPORARY DITCH CHECKS ARE MEASURED PER FOOT, REGARDLESS OF TYPE OR CONFIGURATION USED.

THE CONTRACTOR SHALL SURROUND ALL EARTH STOCKPILES WITH SILT FENCE, THIS SHALL BE PAID FOR AS PERIMETER EROSION BARRIER. EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND ENGINEER AFTER ANY STORM EXCEEDING 0.5 INCH OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SIGNIFICANT SNOWME! T.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING WITHIN 7 DAYS.

ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 95-60.

EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SEQUENCE OF STAGE CONSTRUCTION

STABILIZATION MEASURES SHALL BE INTIATED AS SOON AS PRACTICAL, BUT IN NO CASE EXCEED 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDER DAYS.

THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDED. SEE SPECIAL PROVISION FOR TEMPORARY EROSION CONTROL SEEDING.

ALL PERIMETER EROSION BARRIER SHALL BE PLACED IN STAGE I, IF REQUIRED IN STAGE II IT SHALL BE LEFT IN PLACE. IT SHALL ONLY BR REPLACED IF DAMAGED, AT THE DIRECTION OF THE ENGINEER.

REFER TO LANDSCAPING PLAN FOR AREAS TO BE SEEDED

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2012

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH IUM STANDARD 813 (UPDATED 06/2010). DEWATERING INTO DRAIN TILES IS STRICTLY PROHIBITED. COMPROMISED DRAIN TILES SHOULD BE IMMEDIATELY REPAIRED OR INCORPORATED INTO STORM WATER FACILITIES.

ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES.

ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH $\frac{1}{2}$ " RAIN EVENT OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SIGNIFICANT SNOWMELT.

EROSION CONTROL BLANKET AND/OR STRAW MULCH WITH NETTING (DEPENDING ON SLOPE, SLOPE LENGTH, AND FLOW RATES) SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS IMMEDIATELY UPON FINAL GRADING.

THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORAY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

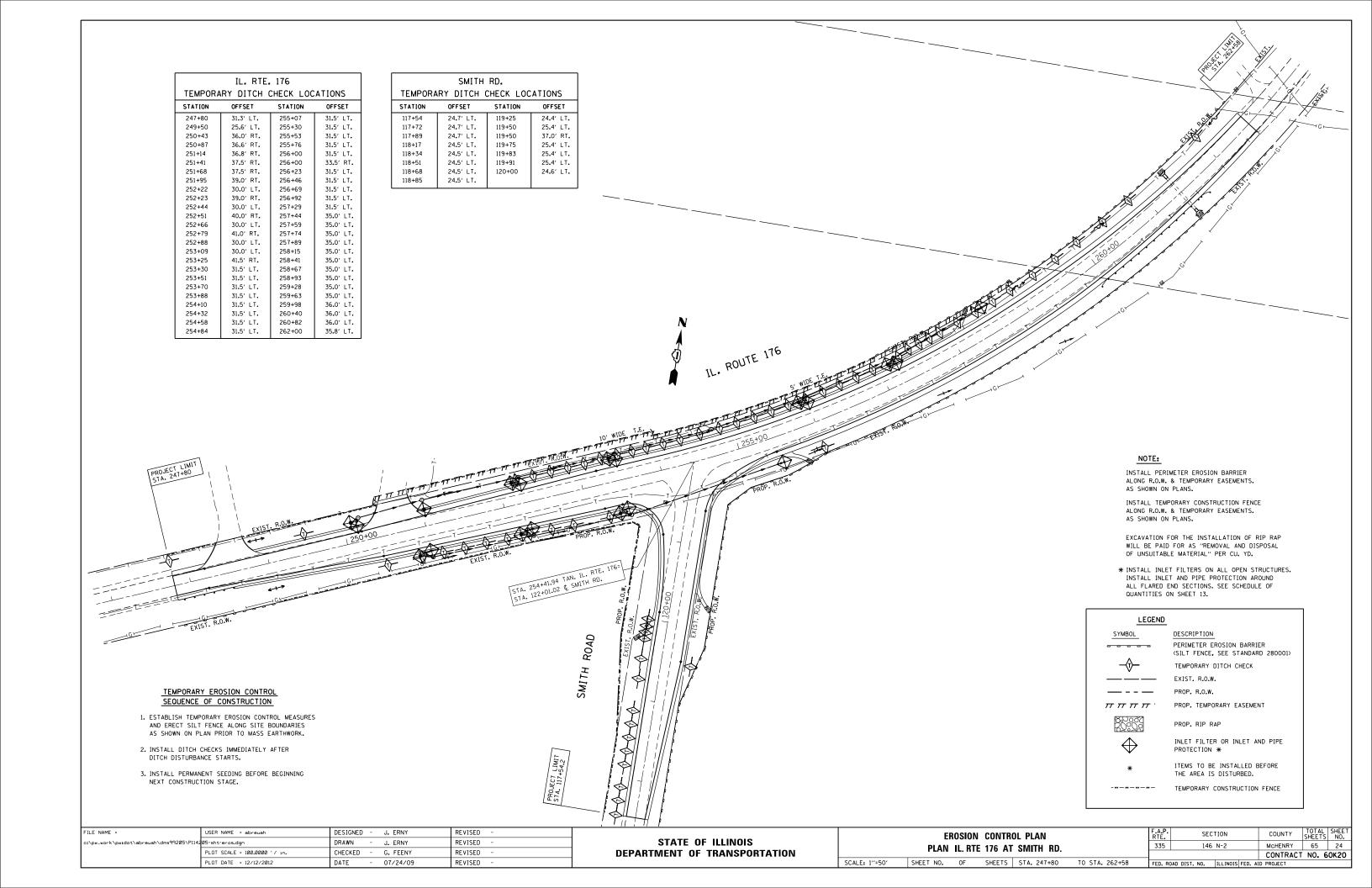
IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.

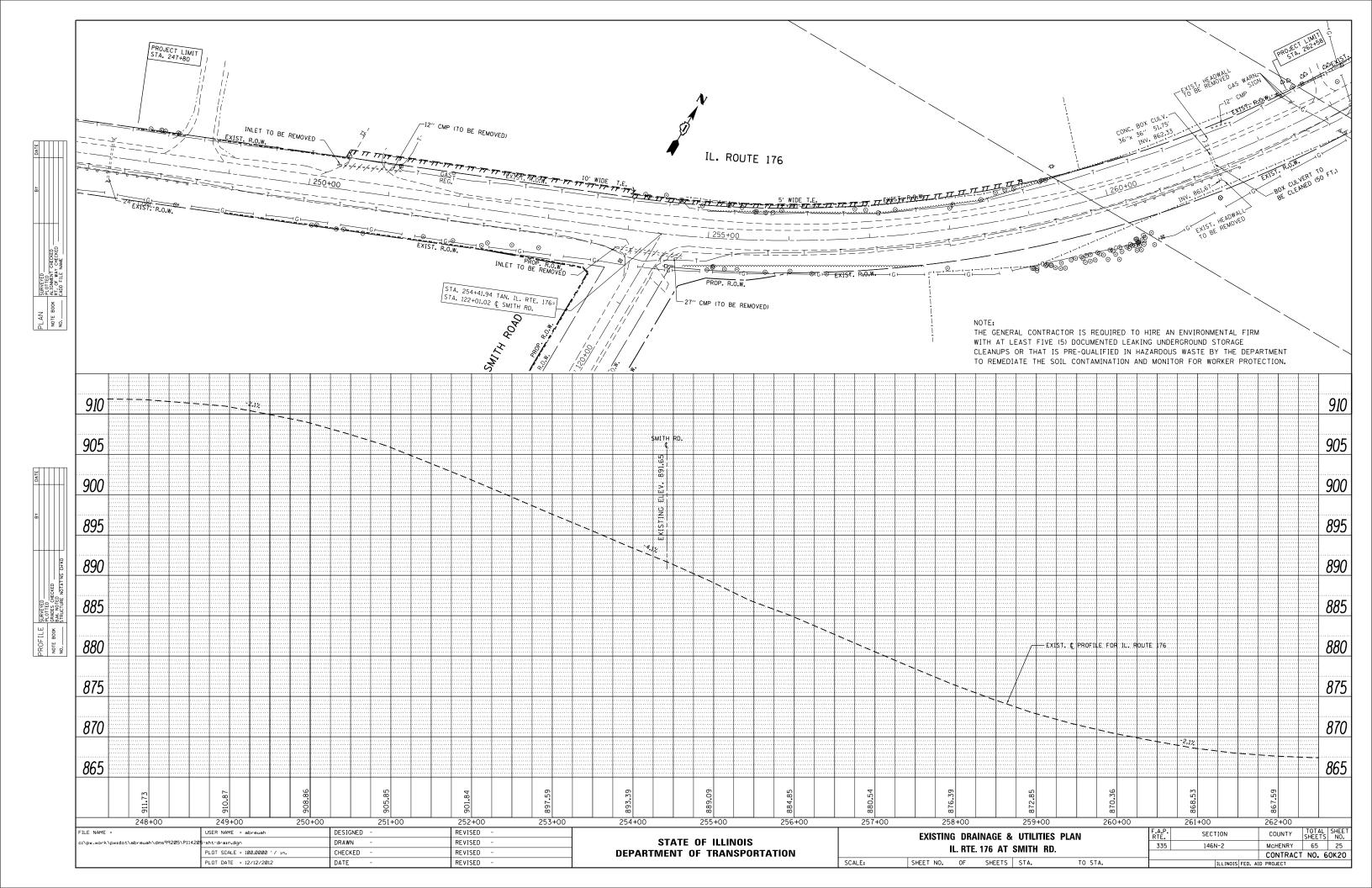
COMPLETED SLOPES SHALL BE SEEDED AND MULCHED (OR BLANKETED, IF APPLICABLE) AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WATER IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. THE STREAM BANKS SHOULD BE STABILIZED AT THE END OF EACH DAY. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

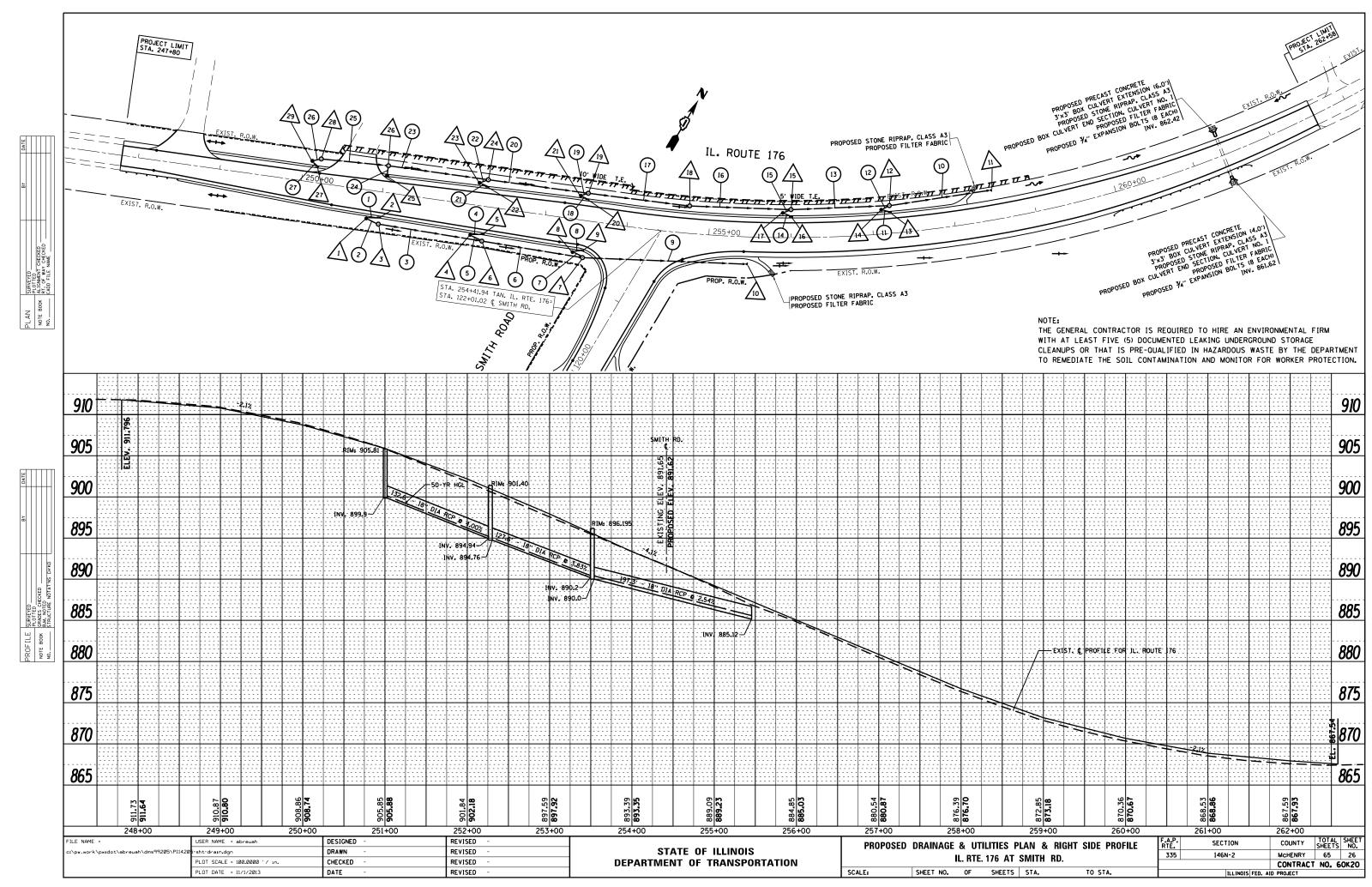
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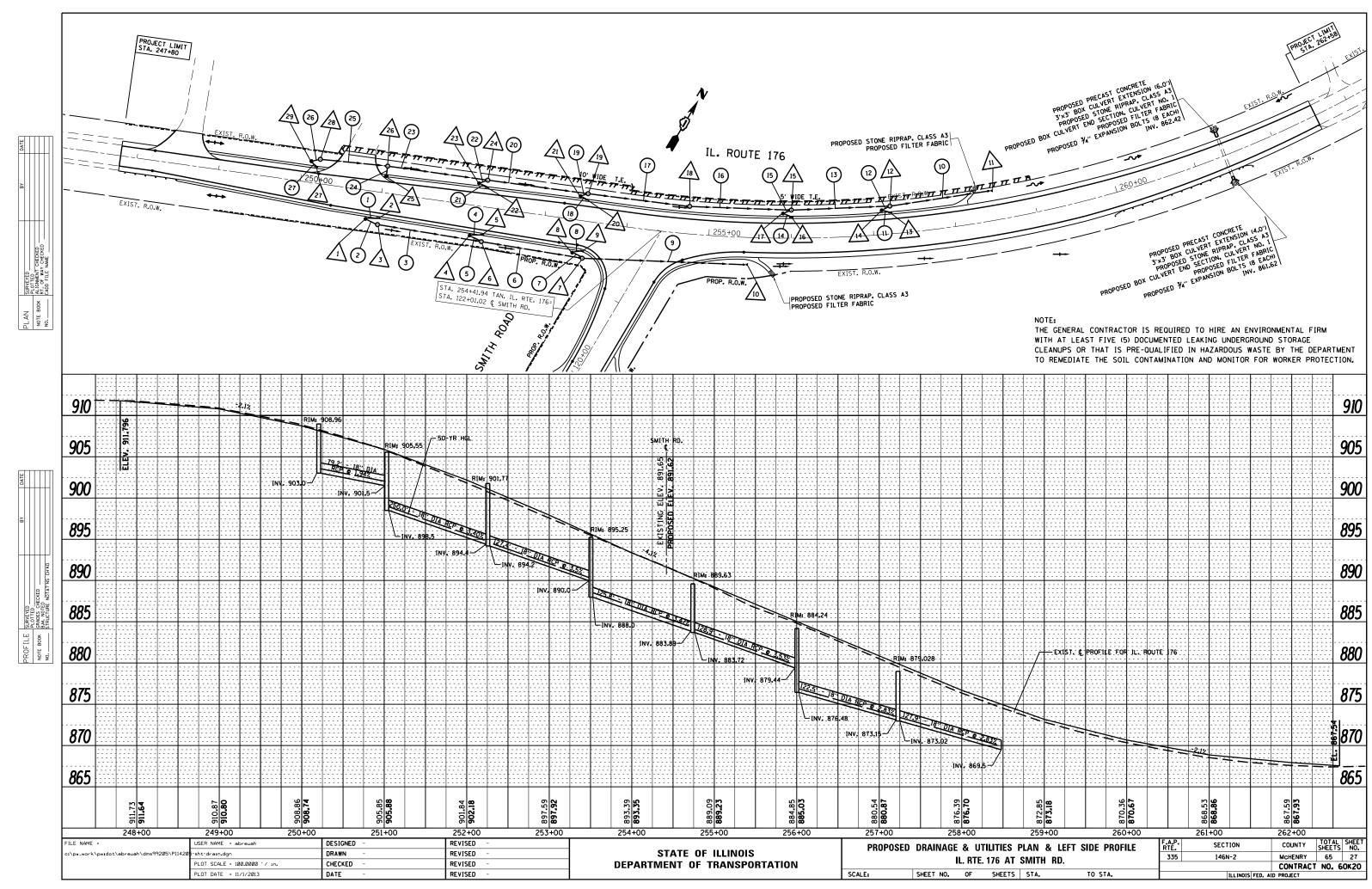
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL 176 AT SMITH ROAD						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EROSION CONTROL NOTES					335	146N-2	MCHENRY	65	23	
Endotole dolernor learner								CONTRACT	NO. 6	OK20
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		









STORM SEWER TABLE							
NO.	STATION - STATION	CLASS	TYPE	DIAMETER (IN)	LENGTH (FT)	SLOPE	TBF (CU ₄ YD ₄)
1	250+86.5-250+99.5	A	2	18	13.7	1.00	0.41
2	250+86.7-250+97.6	Α	2	18	12.4	1.00	
3	251+02.7-252+25.5	Α	2	18	132.6	4.00	
4	252+14.9-252+27.8	Α	2	18	13 . 5′	1.50	0.41
5	252+14.9-252+26.1	Α	2	18	12.2'	0.50	
6	252+30-253+49.2	Α	2	18	127.6′	3.83	
7	253+41.2-253+50	Α	2	18	10.1′	1.00	
8	253+40.8-253+50.3	Α	2	18	10 . 5′	1.00	0.41
9	253+54.2-255+45	Α	2	18	197.3′	2.54	52.9
10	257+24.9-258+48	А	2	18	127.9′	2.83	
11	257+14.4-257+22.3	Α	2	18	8.9′	1.00	0.41
12	257+14.3-257+20.3	Α	2	18	7.0′	1.00	
13	256+02.6-257+20.1	Α	2	18	122.5′	2.83	
14	255+92-256+00	Α	2	18	9.3′	1.00	0.41
15	255+92-255+98	Α	2	18	6.8′	1.47	
16	254+76.4-255+97.4	А	2	18	128.9′	3.53	
17	253+50-254+71	А	2	18	125.8′	3.47	
18	253+42-253+48	А	2	18	7.35′	1.00	0.41
19	253+41-253+46	А	2	18	5.31′	1.00	
20	252+27.6-253+45.6	А	2	18	125.8′	3.47	
21	252+17.5-252+25.3	А	2	18	8.63′	1.00	0.41
22	252+17.4-252+23.2	Α	2	18	7.3′	1.00	
23	251+05.1-252+22.9	А	2	18	127.4′	3.50	
24	251+02.8-251+02.8	А	2	18	7.87′	1.00	0.41
26	250+12.3-250+17.9	А	2	18	6.65′	1.05	
27	250+11.6-250+16.5	Α	2	18	6.43′	1.00	0.41
		1					

	PIPE CULVERT TABLE						
NO.	STATION - STATION	CLASS	TYPE	DIAMETER (IN)	LENGTH (FT)	SLOPE	TBF (CU_YD_)
25	250+22.6-251+00.4	А	2	18	79 . 2′	1.94	17.7

LONGITUDINAL PIPE UNDERDRAIN TABLE								
LOCATION	STATION - STATION	0/S (FT)	DIAMETER (IN)	LENGTH (FT)	WEST OUTLET	EAST OUTLET	NORTH OUTLET	SOUTH OUTLET
IL 176	252+27.8 - 253+51.7	29 . 0 RT	4	132	<u></u>	A		
IL 176	256+00 - 257+22.5	18.0 LT	4	134.5	16	15		
IL 176	259+00 - 260+00	18.0 RT	4	100.0	DITCH	DITCH		
SMITH RD.	118+00 - 119+00	RT	4	100.0			NONE	DITCH

PIPE UNDERDRAIN NOTES:

LONGITUDINAL UNDERDRAINS MUST BE PLACED ALONG THE OUTSIDE EDGES OF THE PROPOSED WIDENING AT APPROXIMATELY THESE LOCATIONS.

LONGITUDINAL UNDERDRAINS SHOULD BE PLACED WITHIN AREAS OF AGGREGRATE SUBGRADE IMPROVEMENT 12" OR UNDERCUTS REPLACED WITH AGGREGATE SUBGRADE

UNDERDAINS SHALL BE PLACED AT A DEPTH OF 30 INCHES BELOW THE TOP OF THE PROPOSED PAVEMENT.

CB, T-A, 4' DIA. W/ T-8 GRATE STA. 250+84.5. 35.4' RT T.G. 905.42 INV. (IN) 902.06

INV. (OUT) 901.57

CONCRETE END SECTION, 18" CONCRETE END SECTION
STA. 255+45, 33.1' RT INV. 885.12

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 253+48, 33.4' LT T.G. 895.25 INV. (IN) W 890.0 INV. (OUT) E 888.0 INV. (IN) SW 891.25

CB, T-A, 4' DIA. 29 W/ T-8 GRATE STA. 250+10, 25.58' LT T.G. 908.20 INV. (IN) SE 904.74 INV. (OUT) E 904.07

|INLET, T-A, 2' DIA. W/ T-24 F&G STA. 251+00, 29.3' RT (EOP) T.G. 905.33 AT EOP

IPRC. FLARED END SECTION, 18" 11 STA. 258+48, 36.25 LT INV. 869.5 INV. (OUT) 902.20

| INLET, T-A, 2' DIA. W/ T-24 F&G STA. 253+48, 24.0' LT (EOP) T.G. 895.232 AT EOP INV. (OUT) 892.11

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 251+00, 39.3' RT T.G. 905.81 INV. (IN) 901.45 INV. (OUT) 899.9

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 257+22.5, 33.7' LT T.G. 879.028 INV. (IN) W 873.15 INV. (OUT) E 873.02 INV. (IN) SW 874.22

CB, T-A, 4' DIA. 21 W/ T-8 GRATE STA. 253+39.4, 30.8' LT T.G. 895.015 INV. (IN) 892.03 INV. (OUT) 891.53

CB. T-A. 4' DIA. W/ T-8 GRATE STA. 252+27.8, 37.7' RT T.G. 901.10 INV. (IN) 897.26 INV. (OUT) 896.76

INLET, T-A, 2' DIA. W/ T-24 F&G STA. 257+22.5, 23.94' LT T.G. 878.55, 23.94 LT INV. (OUT) 875.425

| INLET, T-A, 2' DIA. | W/ T-24 F&G | STA. 252+25, 22.1' LT (EOP) T.G. 900.76 AT EOP INV. (OUT) 897.64

[INLET, T-A, 2' DIA. M/ T-24 F&G STA. 252+27.8, 32' RT (EOP) T.G. 900.59 AT EOP INV. (OUT) 897.47

[CB, T-A, 4' DIA. 14 W/ T-8 GRATE STA. 257+12, 31.5 LT T.G. (IN) 878.951 INV. (IN) 875.34 INV. (OUT) 874.3

> MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 256+00, 34.0' LT

CB, T-A, 4' DIA. W/ T-8 GRATE STA. 252+15, 28.4' LT T.G. 900.63 INV. (IN) 897.55 INV. (OUT) 897.00

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 252+27.8, 42.2' RT T.G. 901.40

INV. (IN) NW 896.7 INV. (IN) W 894.94 INV. (OUT) E 894.76

T.G. 884.235 INV. (IN) W 879.44 INV. (OUT) E 876.5 INV. (IN) SW 878.00 MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 252+25, 32.66' LT T.G. 901.77 INV. (IN) W 894.40 INV. (OUT) E 894.2 INV. (IN) SW 896.93

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 253+51.7, 45.08' RT T.G. 896.195 INV. (IN) NW 892.195 INV. (IN) W 890.2 INV. (OUT) E 890.0

|INLET, T-A, 2' DIA. M/ T-24 F&G STA. 256+00, 23.94' LT (EOP) T.G. 883.699 AT EOP INV. (OUT) 880.57

|INLET, T-A, 2' DIA. W/ T-24 F&G STA. 251+03, 19.6' LT (EOP) T.G. 905.58 AT EOP INV. (OUT) 902.58

CB, T-A, 4' DIA. 8 | W/ T-8 GRATE | STA. 253+38.8, 40.08' RT T.G. 896.068 INV. (IN) 892.875 INV. (OUT) 892.296

CB, T-A, 4' DIA. W/ T-8 GRATE STA. 255+90, 31.5' LT T.G. 884.235 INV. (IN) 880.48 INV. (OUT) 878.10

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 251+03, 32.7' LT T.G. 905.55 INV. (IN) W 901.5 INV. (OUT) E 898.5 INV. (IN) S 902.50

INLET, T-A, 2' DIA. W/ T-24 F&G 9 | W/ T-24 F&G STA. 253+51.7, 34.88' RT (EOP) T.G. 896.105 (EOP) INV. (OUT) 892.98

MH, T-A, 4' DIA. W/ T-1 F C.L. STA. 254+73.8, 33.3' LT T.G. 889.63 INV. (IN) W 883.89 INV. (OUT) E 883.72

INLET, T-A, 2' DIA. W/ T-24 F&G W/ T-24 F&G STA. 250+16.5, 18.0' LT (EOP) INV. (OUT) 904.805

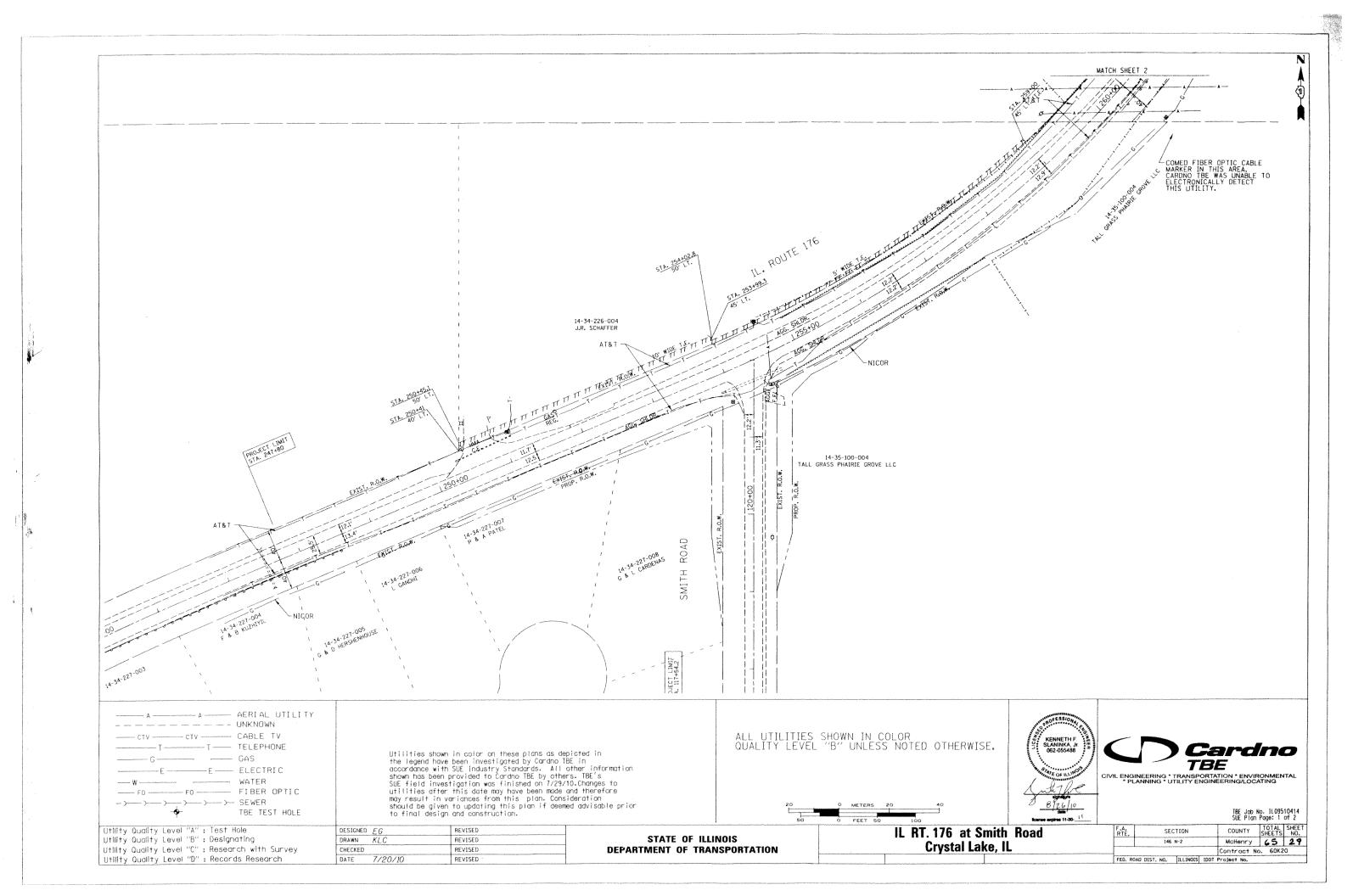
MH, T-A, 4' DIA.
W/ T-1 F C.L.
STA. 250+20, 29.43' LT
T.G. 908.96 INV. (IN) W 904.0 INV. (OUT) E 903.0

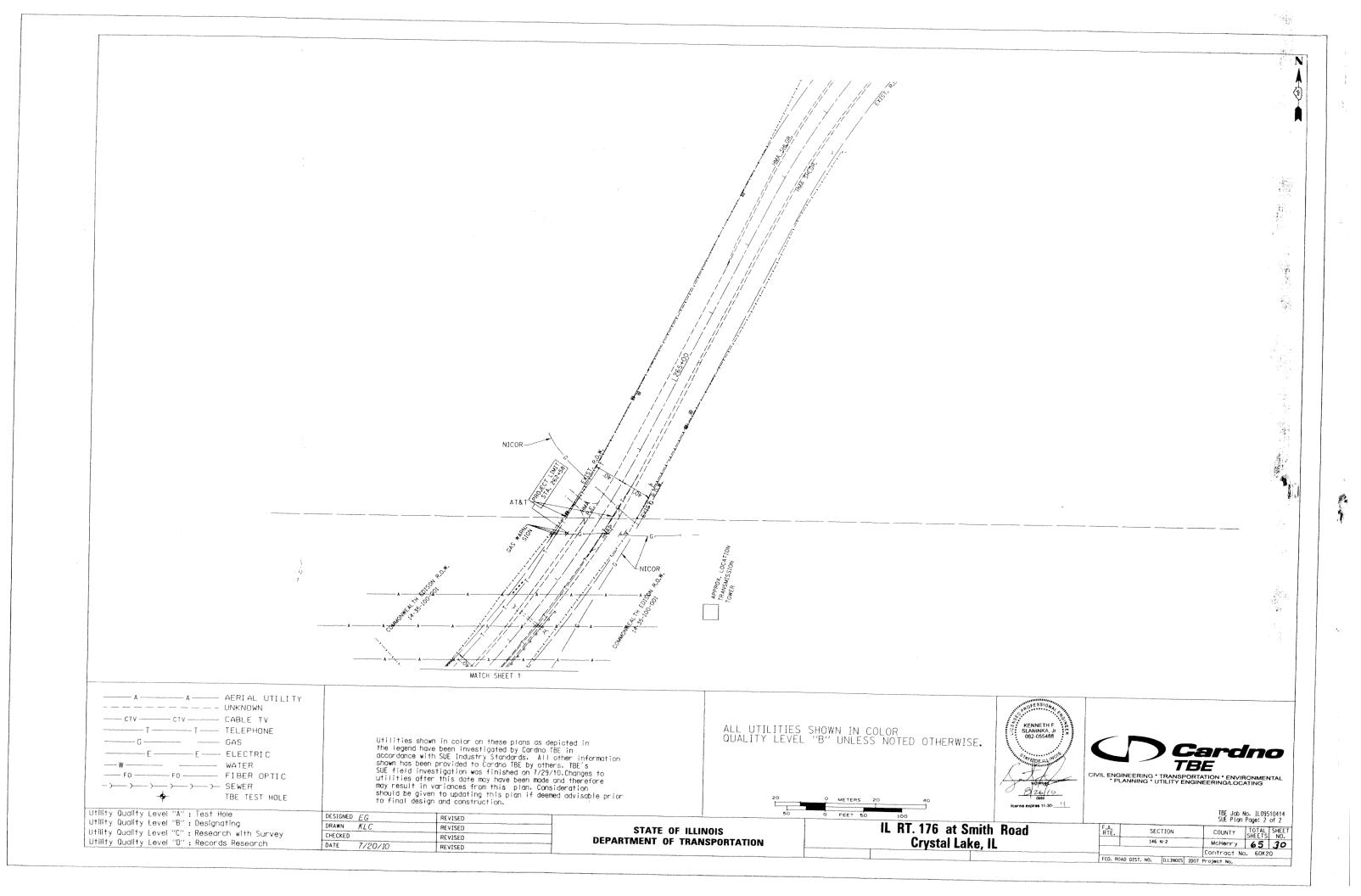
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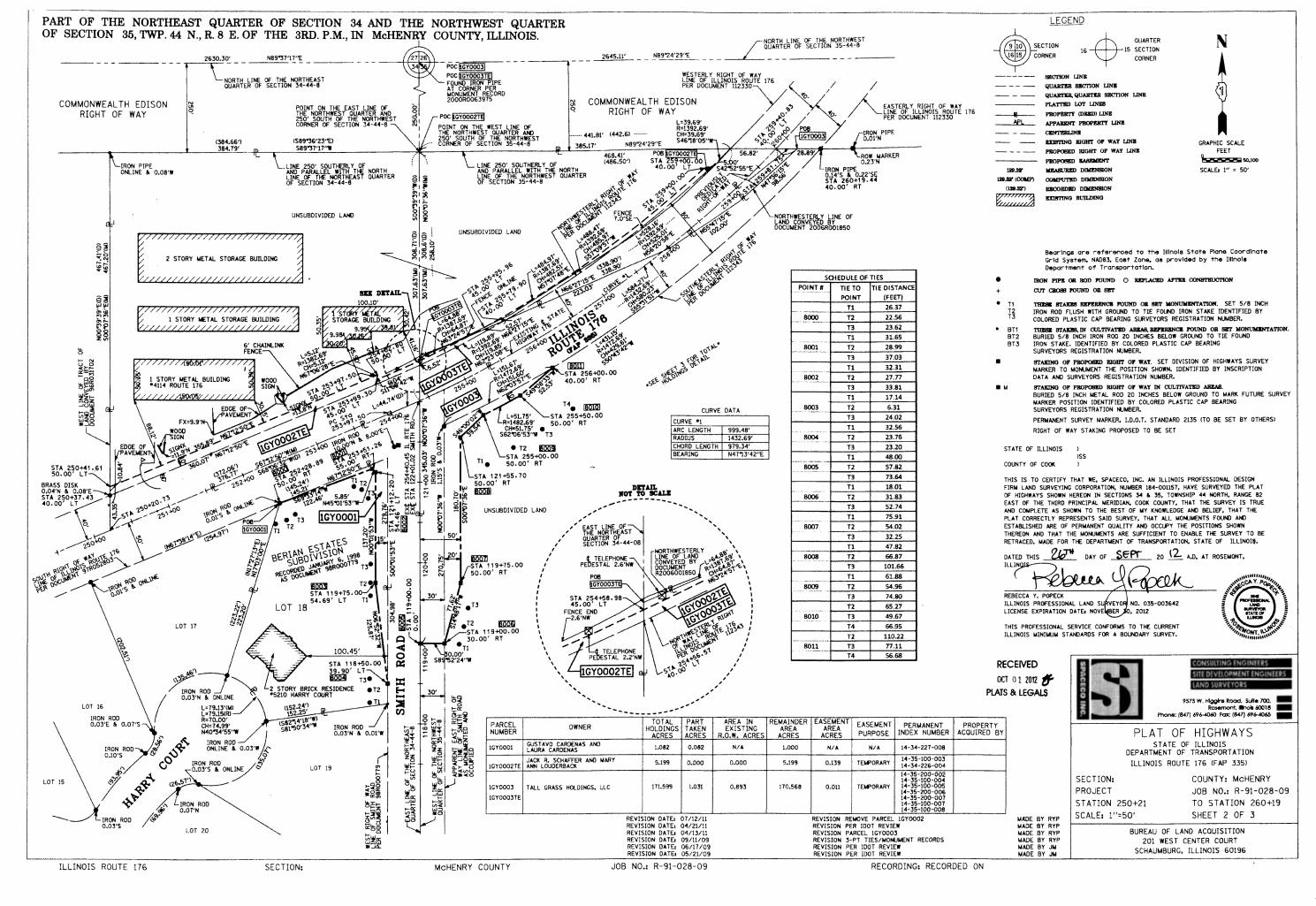
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

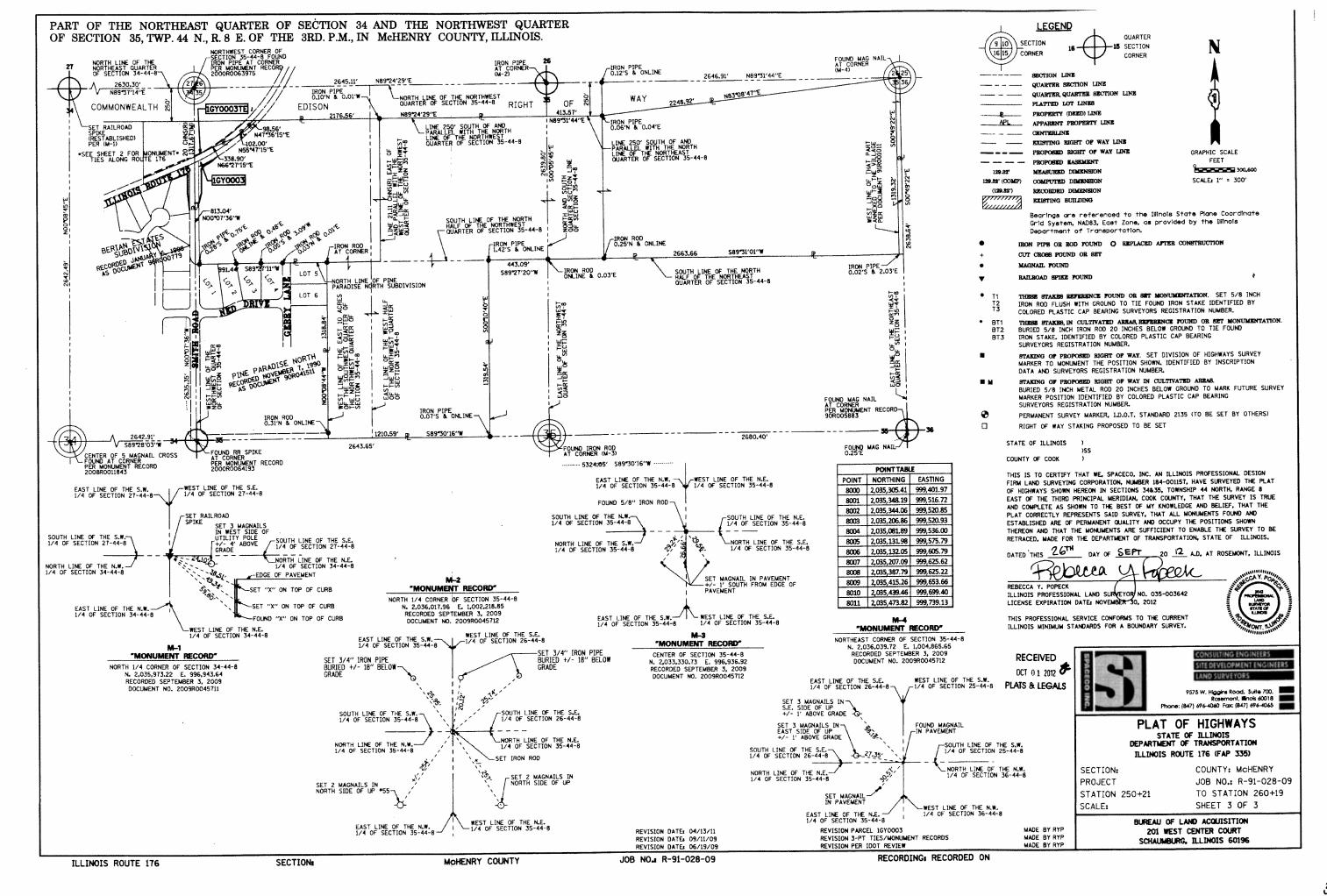
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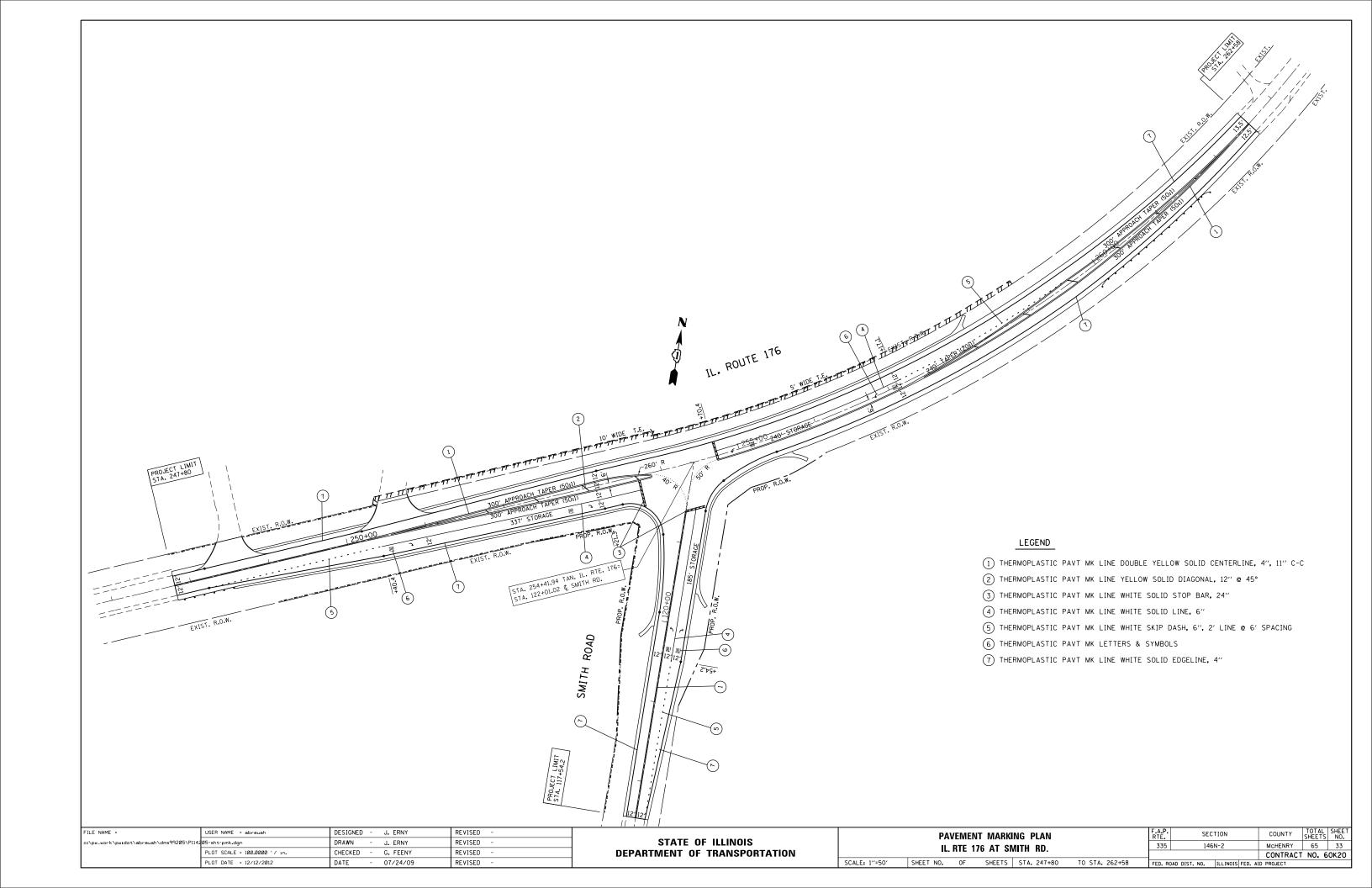
COUNTY TOTAL SHEET NO. MCHENRY 65 28 146N-2 CONTRACT NO. 60K20 FED. ROAD DIST. NO. 1 ILLINOIS

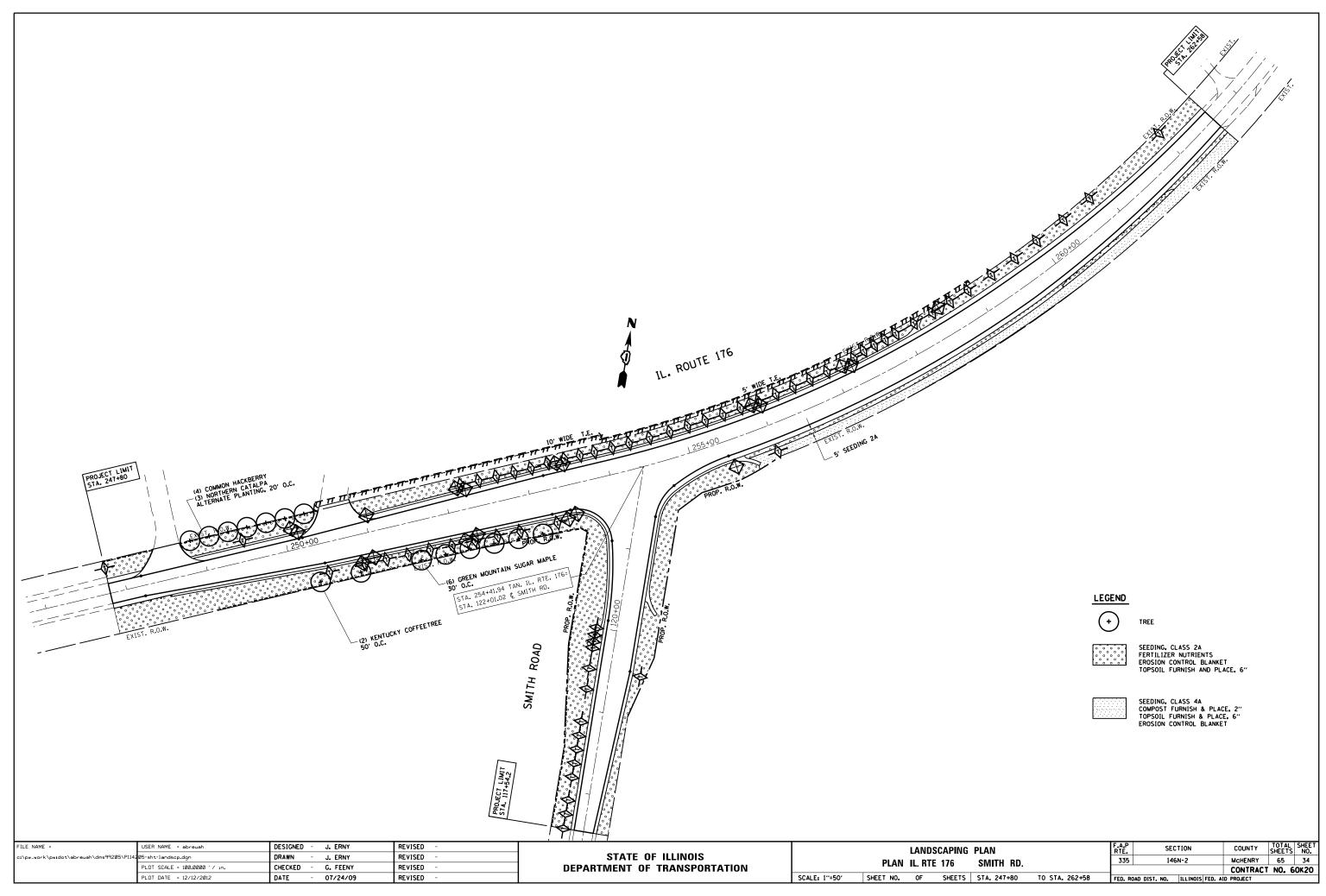


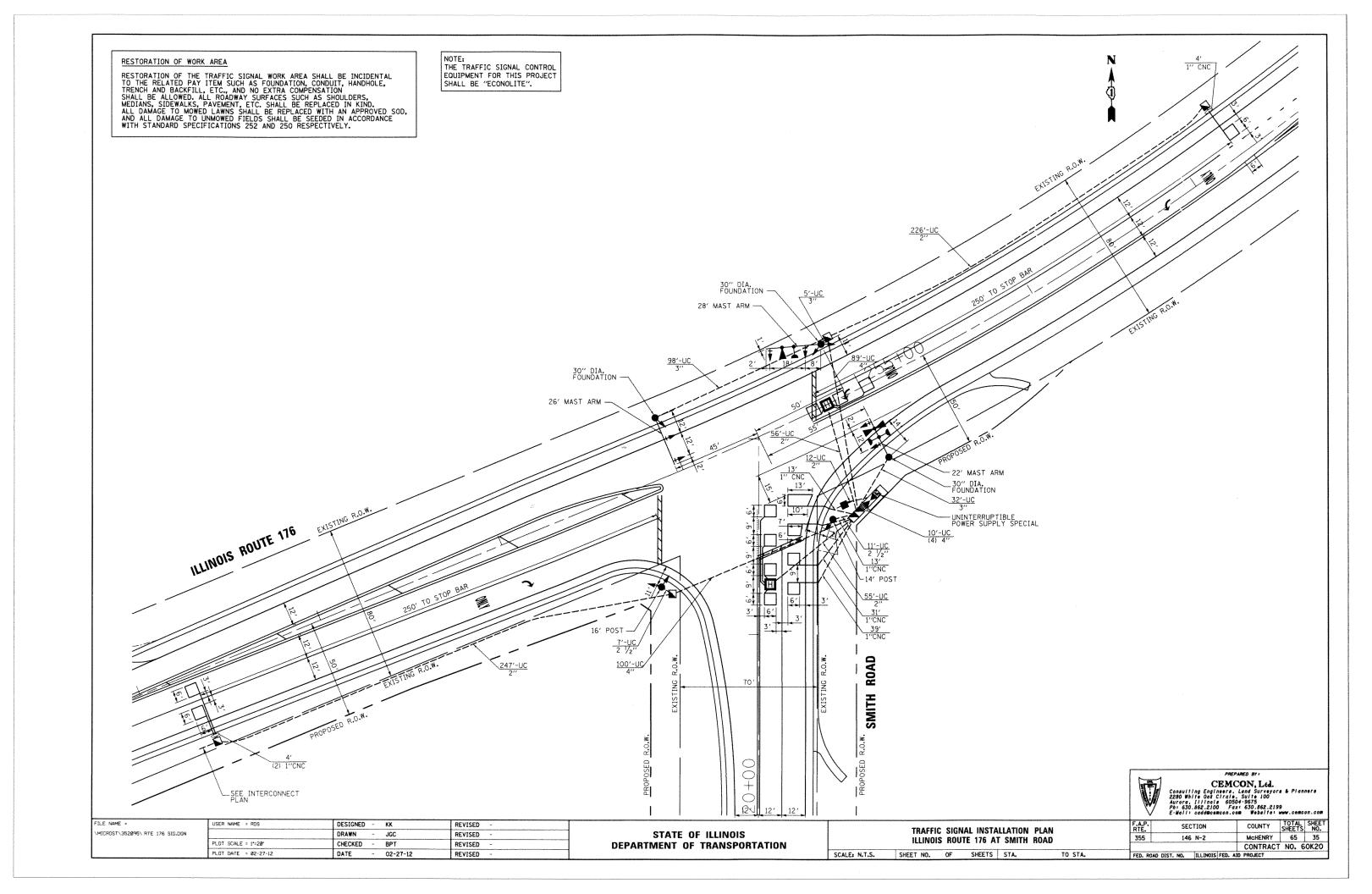


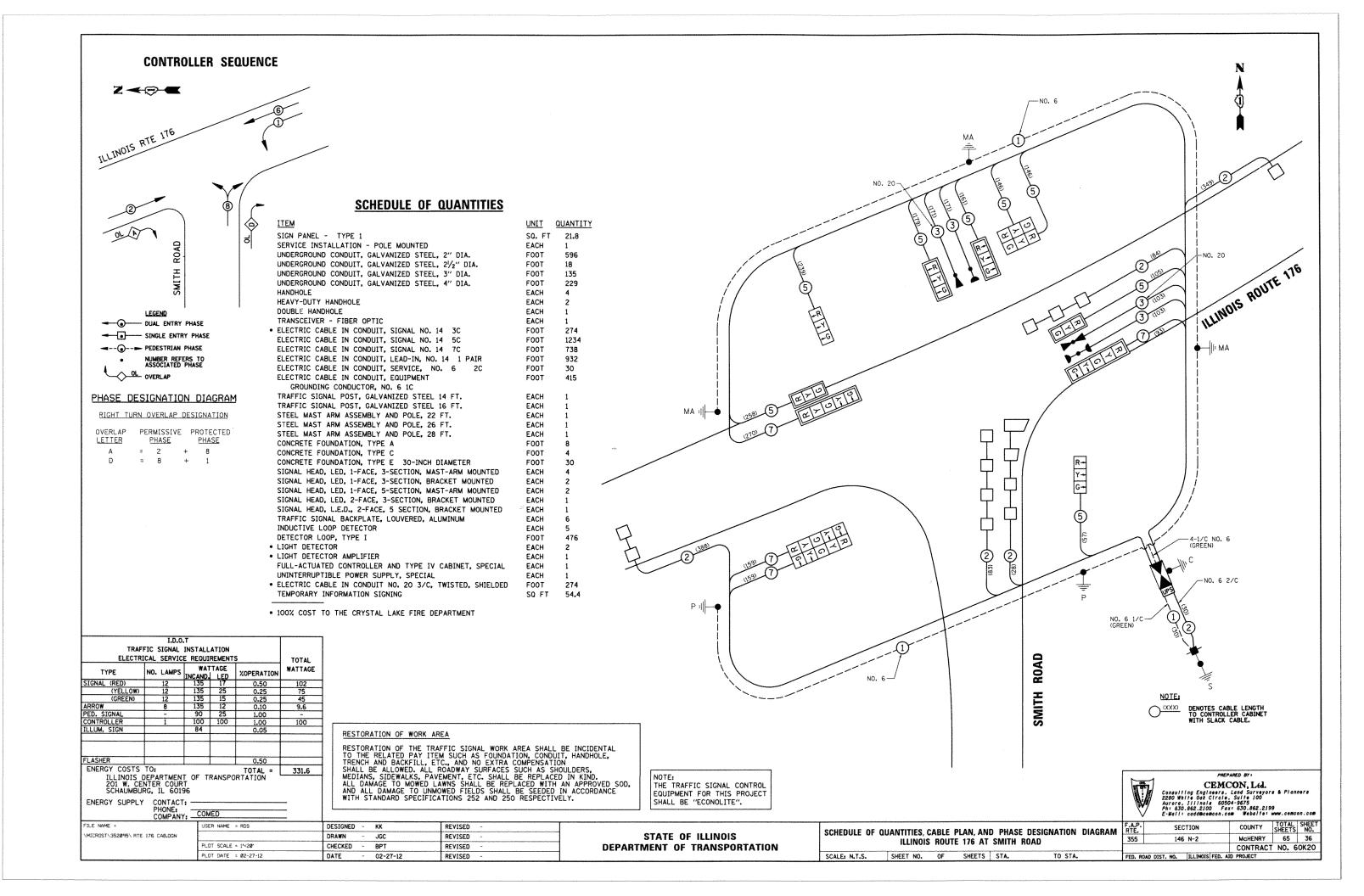


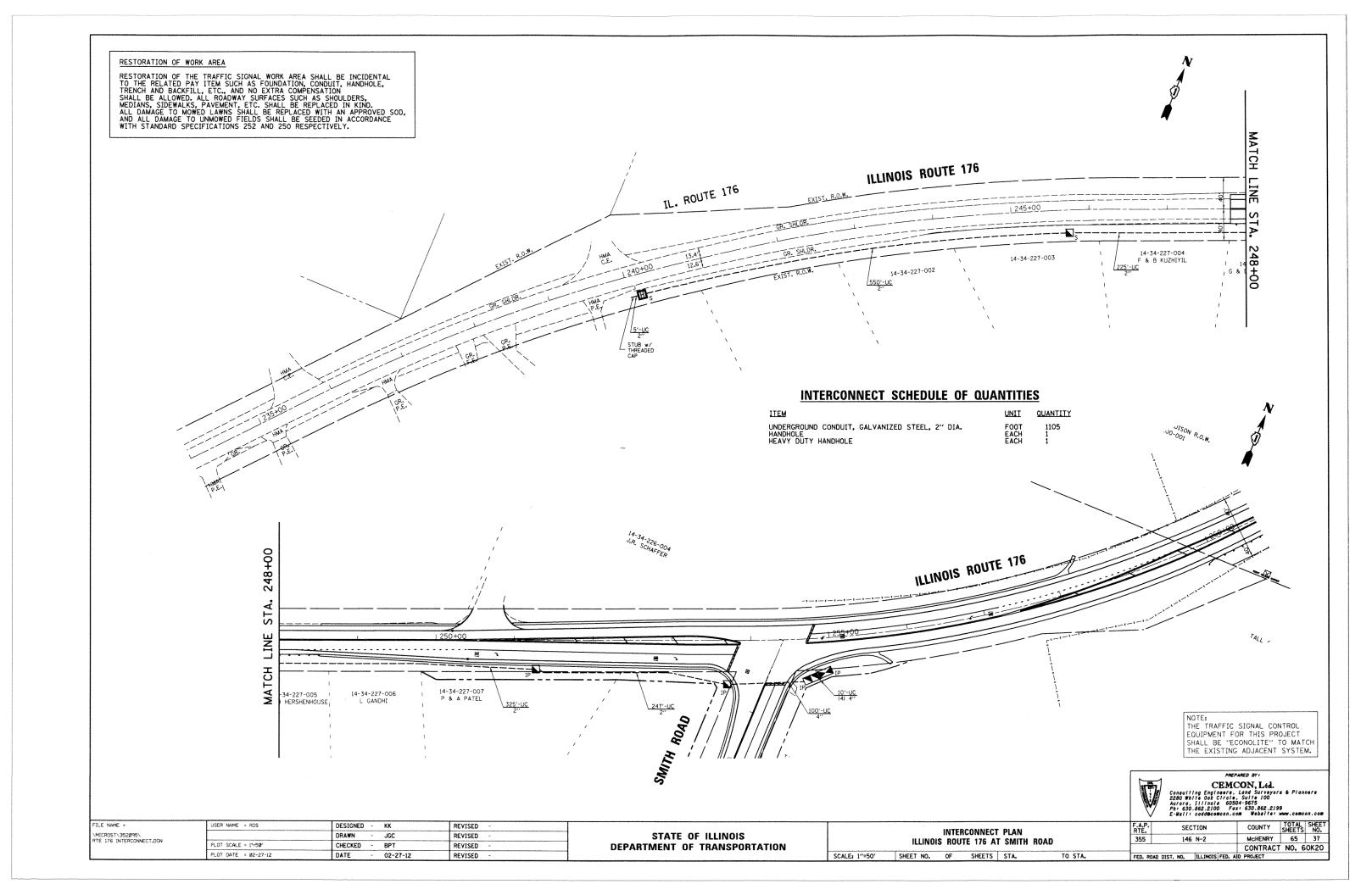


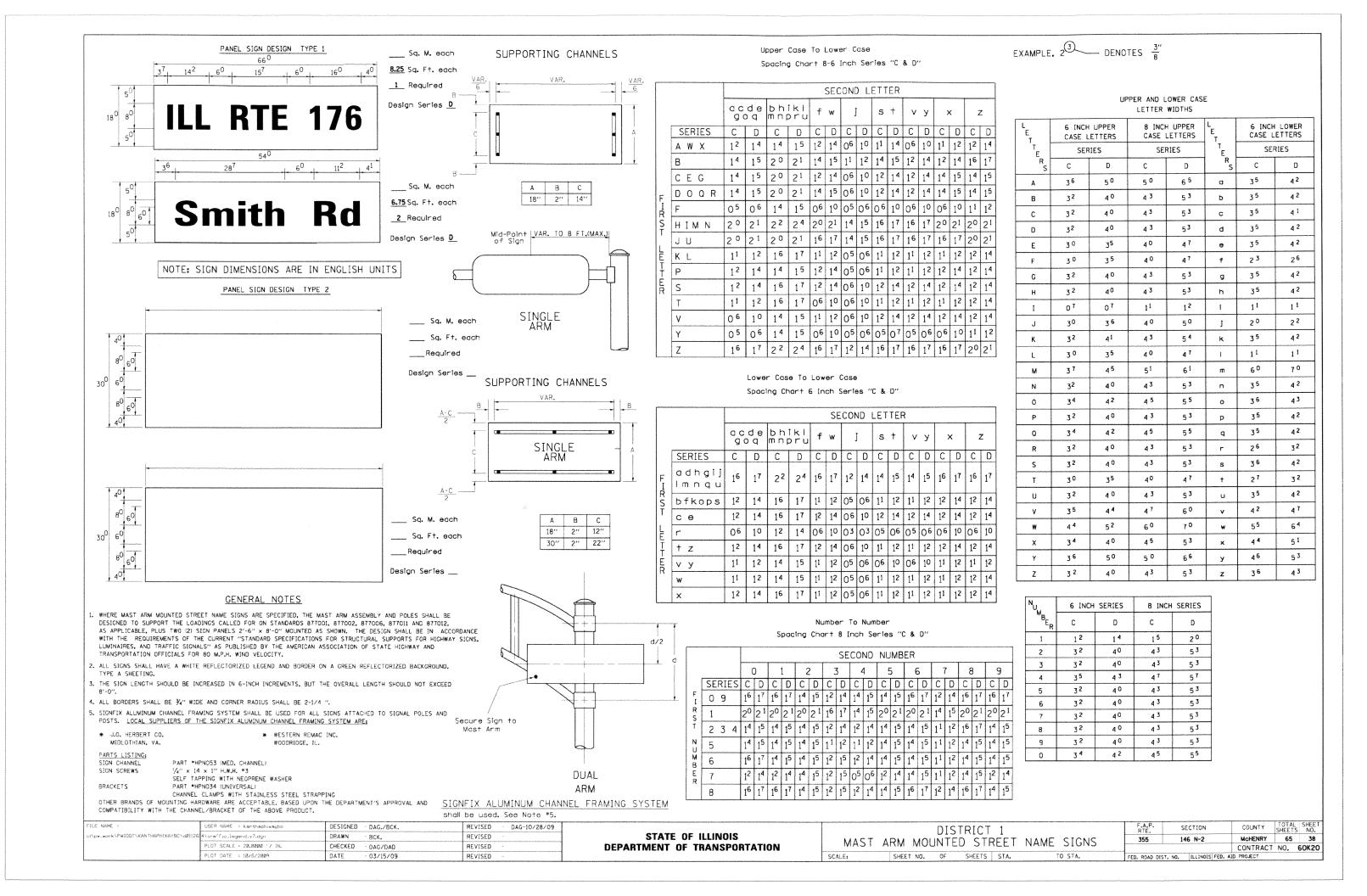








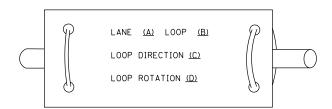




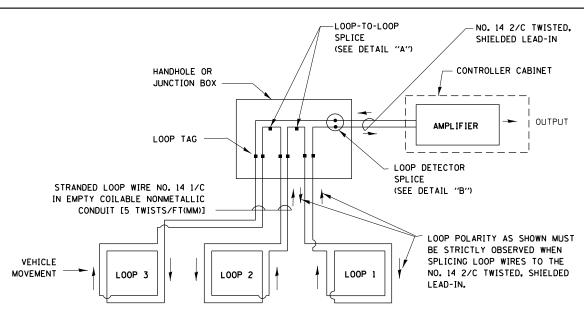
LOOP DETECTOR NOTES

- 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

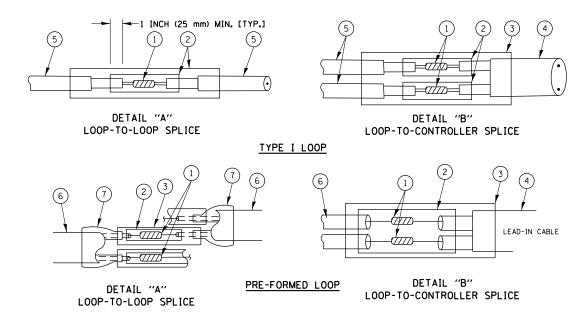


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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), IE 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.



LOOP DETECTOR SPLICE

- $\hfill \hfill \hfill$
- (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
- XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

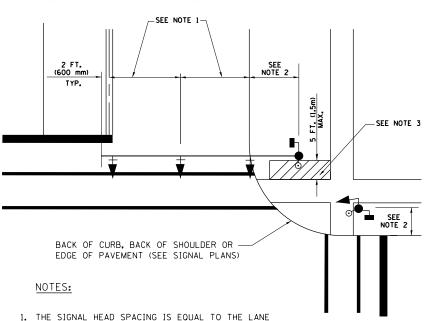
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STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DISTRICT ONE					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS				335	146N-2	MCHENRY	65	39		
STANDARD TRAFFIC SIGNAL DESIGN DETAILS							TS-05	CONTRACT	NO.	60K20
SCALE: NONE	SHEET NO. 1	OF 6	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED	. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

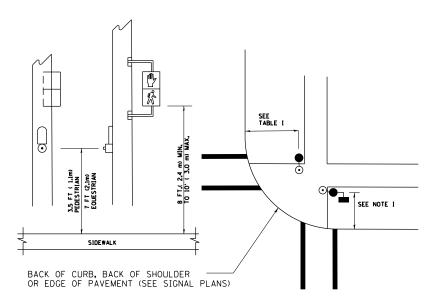
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.

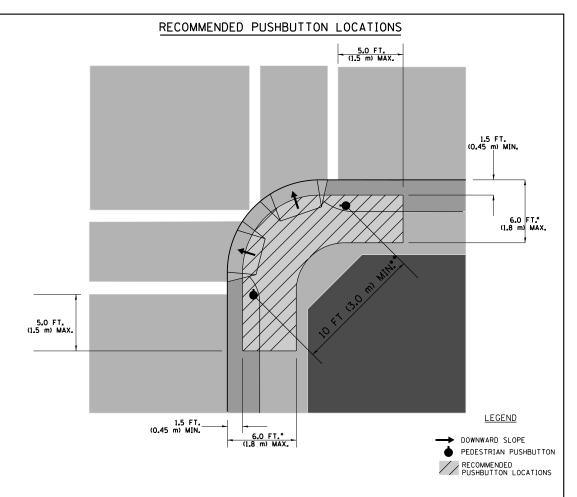
 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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."



- 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:

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

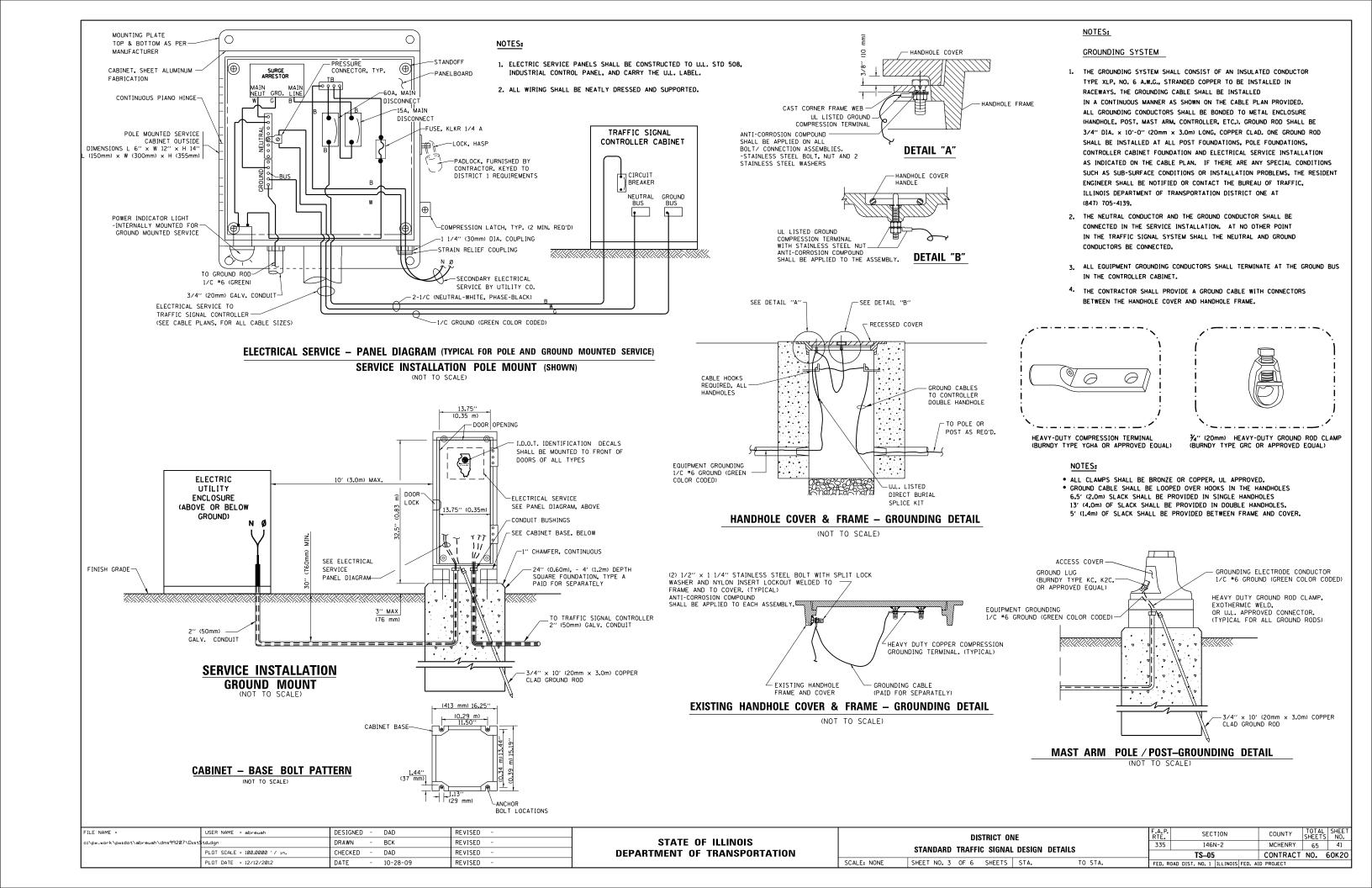
TRAFFIC SIGNAL EQUIPMENT OFFSET

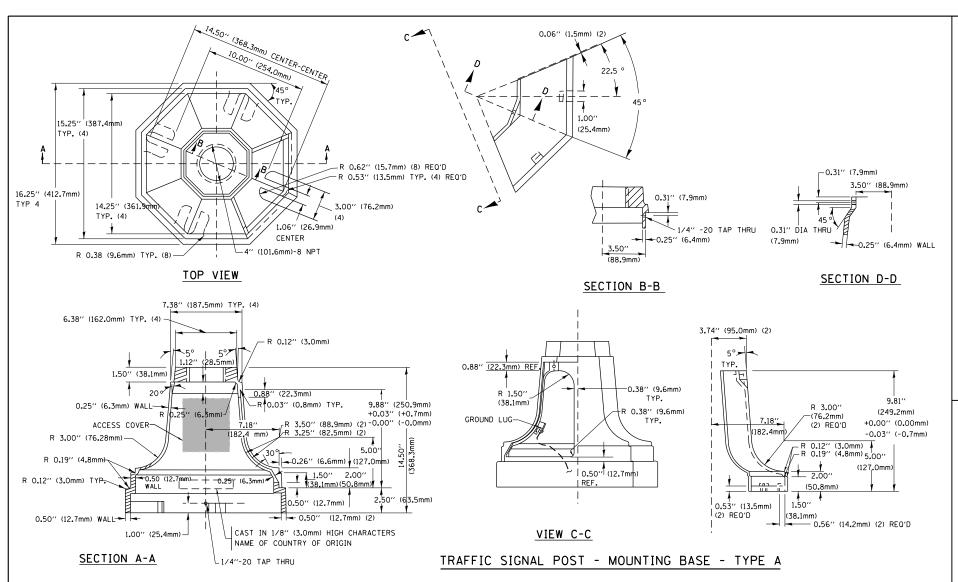
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

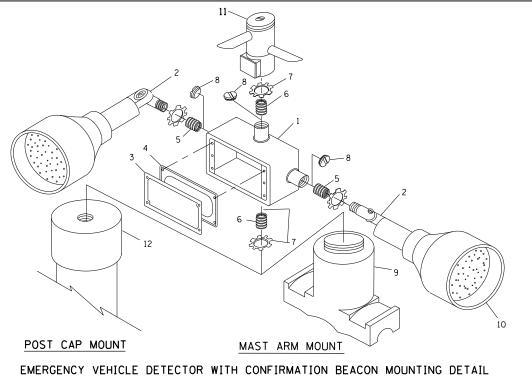
NOTES:

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

FILE NAME : DESIGNED -DAD REVISED USER NAME = abreuat SECTION COUNTY DISTRICT ONE DRAWN BCK REVISED STATE OF ILLINOIS 335 146N-2 MCHENRY 65 40 STANDARD TRAFFIC SIGNAL DESIGN DETAILS PLOT SCALE = 100.0000 '/ in. HECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60K20 TS-05 SCALE: NONE SHEET NO. 2 OF 6 SHEETS STA. REVISED PLOT DATE = 12/12/2012 DATE 10-28-09







PLOT SCALE = 100.0000 '/ 10.

PLOT DATE = 12/12/2012

DESIGNED -

DRAWN

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10-28-09

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REVISED

FILE NAME =

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	3/4''(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- 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 3/4"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

CONDUIT BUSHING EXISTING CONDUIT TO REMAIN PLAN PLAN

TO BE REMOVED

NOTES

SCALE: NONE

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.

GALVANIZED STEEL HOOKS

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
					335	146N-2	MCHENRY	65	42
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					TS-05	CONTRACT	NO.	60K	
	SHEET NO. 4 OF 6	SHEETS	STA.	TO STA.	FED. R	ROAD DIST, NO. 1 ILLINOIS FED.	AID PROJECT		

0.25" (6mm) O.25" (Amm) O.25"

B-B

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

SHROUD

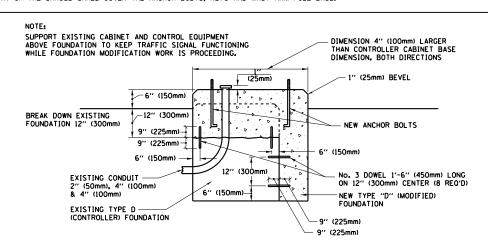
NOTES:

R0.50'

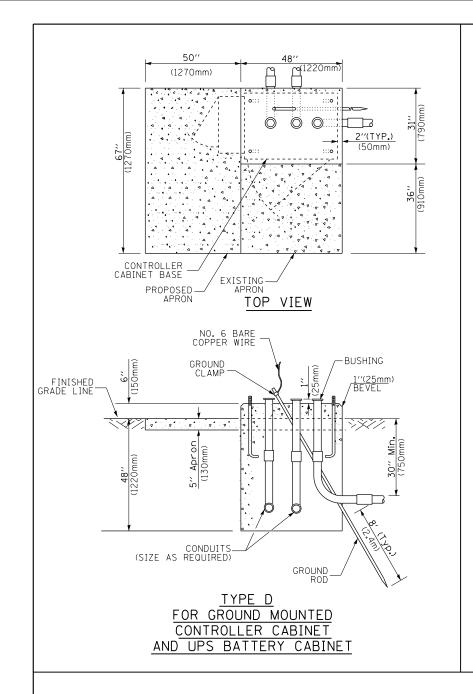
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

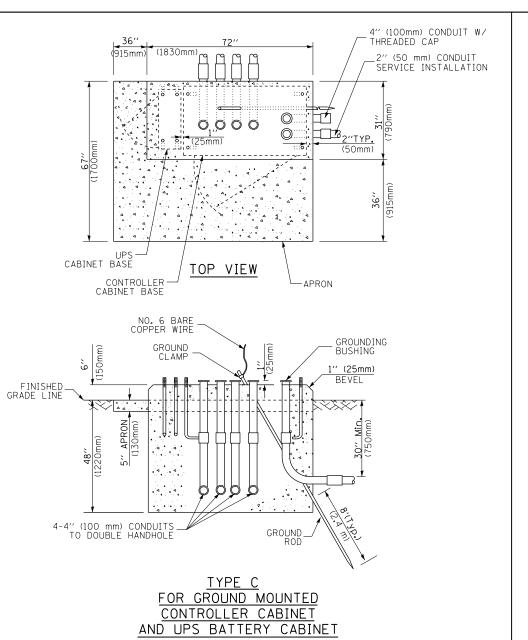
R2.95" (75mm)

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



MODIFY EXISTING TYPE "D" FOUNDATION





G5" (SEE NOTE 4) (1651mm) 49" (SEE NOTE 3) A9" (SEE NOTE 3) A0" (245mm) (1118mm) (125mm) WOOD FRAMING (TYP.) CABINET CABINET TRAFFIC SIGNAL CONTROLLER CABINET Y4" (19mm) TREATED PHYWOOD DECK TREATED WOOD TREATED WOOD
1219mm)
NOTES: 6" x 6" (152mm x 152mm)
TREATED WOOD POSTS BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUIST PLATFORM SIZE TO FIT CARINET BASE DIMENSIONS BEING SUPPLIED.

- 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	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	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:

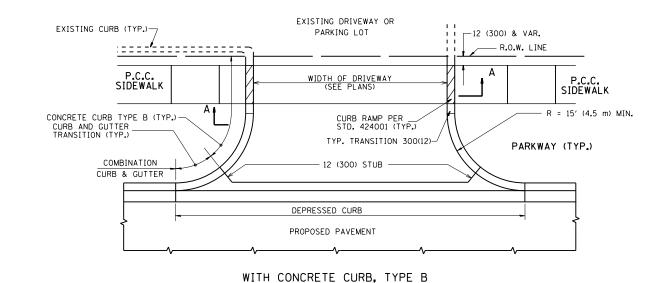
- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer 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.

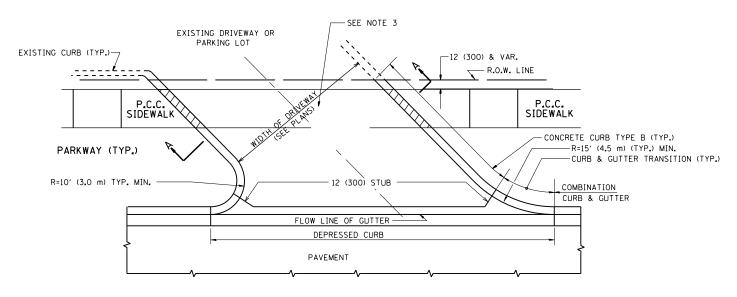
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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c:\pw_work\pwidot\abreuah\dms99207\DistS	td.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: NONE SHEET NO. 5 OF 6 SHEETS STA. TO STA.		335	146N-2	MCHENRY	65	43			
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION				TS-05	CONTRACT	T NO. 6	OK20			
	PLOT DATE = 12/12/2012	DATE - 10-28-09	REVISED -				FED. ROA	AD DIST. NO. 1 ILLIN	NOIS FED. AID PROJECT					

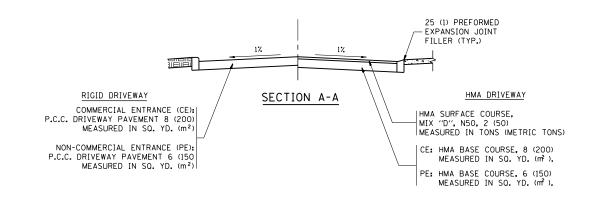
TRAFFIC SIGNAL LEGEND

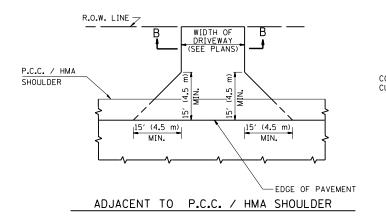
				<u>IIIAIIIO</u>	OIGIVA	LLGLIV					
ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	\square	<u> </u>	EMERGENCY VEHICLE LIGHT DETECTOR	−R≪	<u></u>		ELECTRIC CABLE IN CONDUIT, TRACER,			<u> </u>
RAILROAD CONTROL CABINET		₹ \	R►◆R	CONFIRMATION BEACON	R_{o-1}	o-()	⊢	NO. 14 1/C, UNLESS NOTED OTHERWISE			<u> </u>
COMMUNICATIONS CABINET	C C	E C C	СС		R □			COAXIAL CABLE		_ ©—	— <u>c</u> —
MASTER CONTROLLER		EMC	MC	HANDHOLE							
MASTER MASTER CONTROLLER		EMMC	MMC	HEAVY DUTY HANDHOLE	R	H	H	VENDOR CABLE FOR CAMERA			
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		-6-	<u> </u>
SERVICE INSTALLATION,	R	P	- ■ P	JUNCTION BOX	R		0	FIBER OPTIC CABLE			
(P) POLE OR (G) GROUND MOUNT TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	- T	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		<u>-</u>	
STEEL MAST ARM ASSEMBLY AND POLE	R_	0		TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R			NO. 62.5/125, MM12F SM12F		<u>-24F</u>	—(24F)—
ALUMINUM MAST ARM ASSEMBLY AND POLE	O———	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125,		\prec	
STEEL COMBINATION MAST ARM				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		-	-
ASSEMBLY AND POLE WITH LUMINAIRE STEEL COMBINATION MAST ARM	^R O->X	o-≭——	•*	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		c 	c'ı⊩⊷
ASSEMBLY AND POLE WITH PTZ CAMERA	Pila	PI	PT	INTERSECTION ITEM		I	ΙP	OR (S) SERVICE			
SIGNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R⊗	\otimes		RELOCATE ITEM	RL ^			STEEL MAST ARM POLE AND	_RMF		
GUY WIRE	R	>	>-	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	А	R	R	FOUNDATION TO BE REMOVED	0		
SIGNAL HEAD	R	>	→	12 (SOOMIN) THAT TO STONAL SECTION				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES			→ ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R S C		STEEL COMBINATION MAST ARM ASSEMBLY	DVE		
(NUMBERS INDICATE THE CONSTRUCTION STAGE)	R		_			R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O–X———		
SIGNAL HEAD WITH BACKPLATE	+ R	+	+-				Y	SIGNAL POST AND FOUNDATION	RMF _.		
SIGNAL HEAD OPTICALLY PROGRAMMED	>′′P′′	- >′′p′′	→ ′′P′′	SIGNAL FACE		G ∢ Y	G ∢ Y	TO BE REMOVED	0		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- - ⊃′′F′′	O-D″ ^F ″	● → "F"			4 G	 G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
PEDESTRIAN SIGNAL HEAD	R -	-1	-			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R (6)	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		G G	Y G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT(DR.	[<u>P</u>]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS			•	∢ G				
ILLUMINATED SIGN "NO LEFT TURN"	R		9			"P"	"P"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR)R	ÎPPÎ	
ILLUMINATED SICN				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(DW) (W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R			12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		ţPSĮ	PS
DETECTOR LOOP, TYPE I		i		INTERNATIONAL SYMBOL, OUTLINED						ė — ė	•—•
PREFORMED DETECTOR LOOP		 ? - + ! P ! e - e	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		(*)	₽ ★	RAILROAD	SYMBO	DLS	
MICROWAVE VEHICLE SENSOR	R [M][]	[M]	(M)	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		(C) C) (C) D	₽ C * D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	$\mathbb{Q}^{\mathbb{Q}}$	(V)	(♥	RADIO INTERCONNECT	##*O	##+0	###	RAILROAD CONTROL CABINET		₽	R
VIDEO DETECTION ZONE					<u></u>		1.	RAILROAD CANTILEVER MAST ARM	Σ	XOX X X	X QX X
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL			¥⊖¥
PAN, TILT, ZOOM CAMERA	PTA R	PIA W	PT	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE		202	***
WIRELESS DETECTOR SENSOR	RW	W	W	GROUND CABLE IN CONDUIT		~/	_	CROSSBUCK		 ★	*
WIRELESS ACCESS POINT	R			NO. 6 SOLID COPPER (GREEN)		1	1				
ILE NAME = USER NAME = abreuah \hwww.work\pwidot\abreuah\dms99207\Dist\ddgn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED -		OF ILLINOI			DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 335	SECTION 146N-2	COUNTY TOTAL S SHEETS MCHENRY 65
PLOT SCALE = 100.0000 ' / PLOT DATE = 12/12/2012	in.	CHECKED - DAD DATE - 10-28-09	REVISED -	DEPARTMENT	OF TRANSP	ORTATION	SCALE: NO			TS-05 D DIST. NO. 1 ILLINOIS FEE	CONTRACT NO. 60

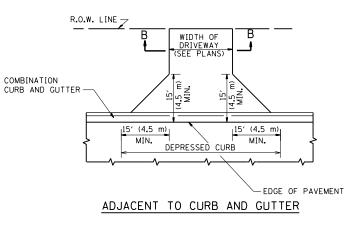


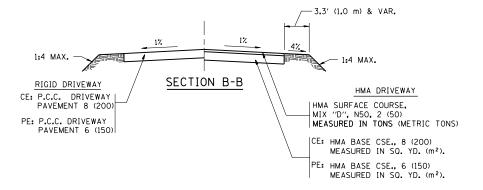


WITH CONCRETE CURB, TYPE B









RURAL FIELD ENTRANCE (FE)

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

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m^2) .

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 OUESTIONS 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.

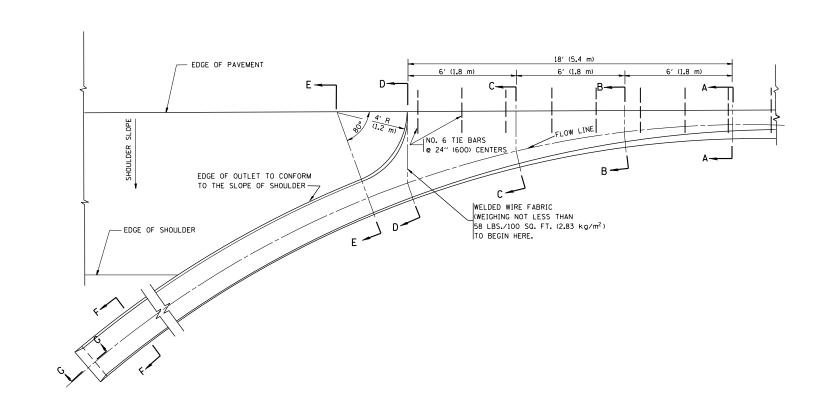
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

SCALE: NON

FILE NAME =	USER NAME = abreuah	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
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	PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 12/12/2012	DATE - 11-04-95	REVISED - R. BORO 09-06-11

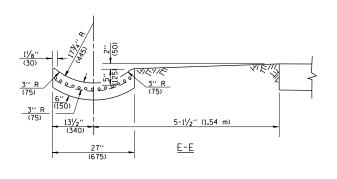
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

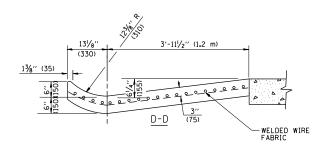
DR	IVEWAY DETAILS — I	DISTANCE	RTE. SECTION COUNTY SHI			TOTAL SHEETS	SHEET NO.		
AND E	ACE OF CURB & ED	CE OE CL	INIII NED 🔍	- 15' (4 5 m)	335	146N-2	MCHENRY	65	45
AND	ACE OF COMB & ED	IGE OF SE		BD0156-07 (BD-01)	CONTRACT	NO.	60K20		
NE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

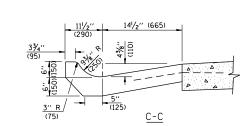


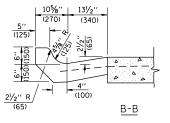


* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.









GENERAL NOTES

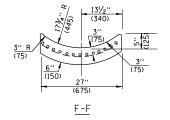
GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

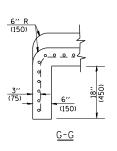
TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL= 1.25 CU. YDS. $(0.96~m^3)$ CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T. 1.27 CU. YDS. $(0.96~m^3)$ CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T. FOR SECTION F-F= 0.045 CU. YDS. $(0.03~m^3)$ CLASS SI CONCRETE PER ft. (m).

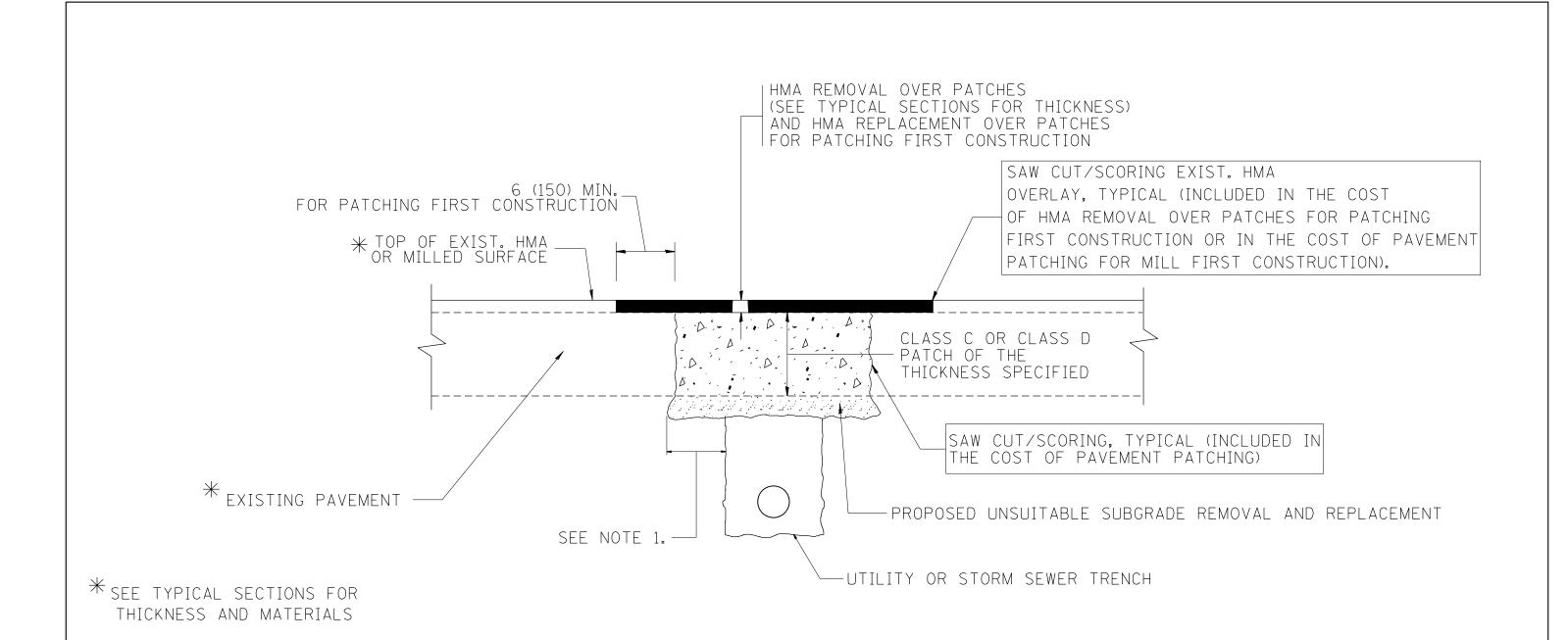




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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	E. GOMEZ 12-21-00
	PLOT DATE = 12/12/2012	DATE - 08-04-86	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	OUTLET FOR CONCRETE						SECTION	COUNTY TOTAL SHEETS		SHEET NO.
	CURB AND GUTER							MCHENRY	65	46
								CONTRACT	NO.	50K20
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

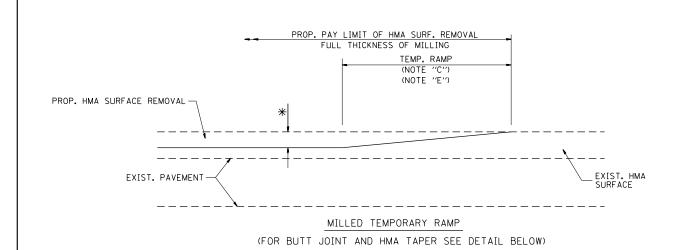
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

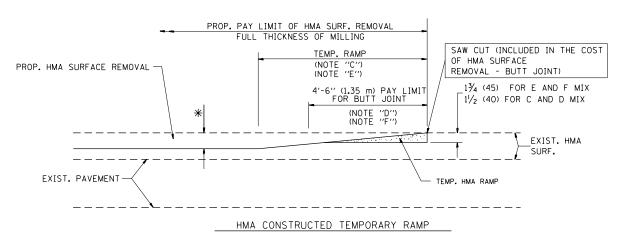
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

	FILE NAME =	USER NAME = abreuah	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.P. SECTION	COUNTY TOTAL SHEET
- 1	c:\pw_work\pwidot\abreuah\dms99207\Dist	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		335 146N-2	MCHENRY 65 47
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60K20
		PLOT DATE = 12/12/2012	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED. AII	



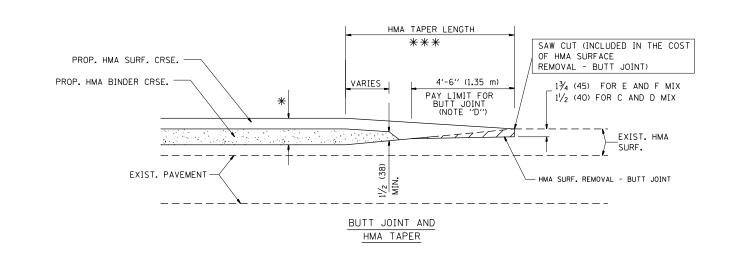
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP

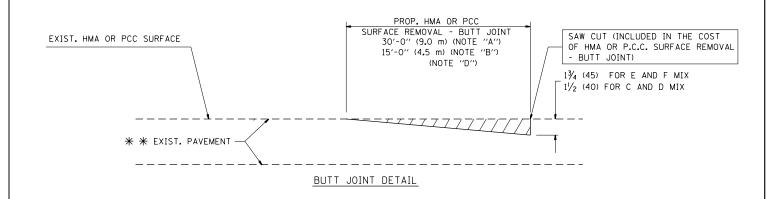


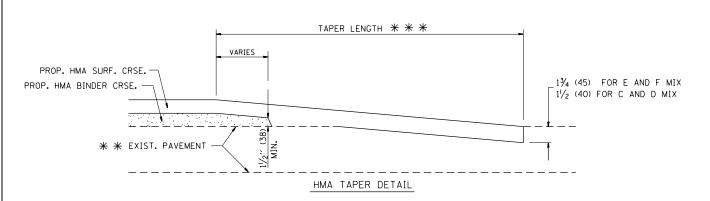
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

OTHERWISE SHOWN.





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

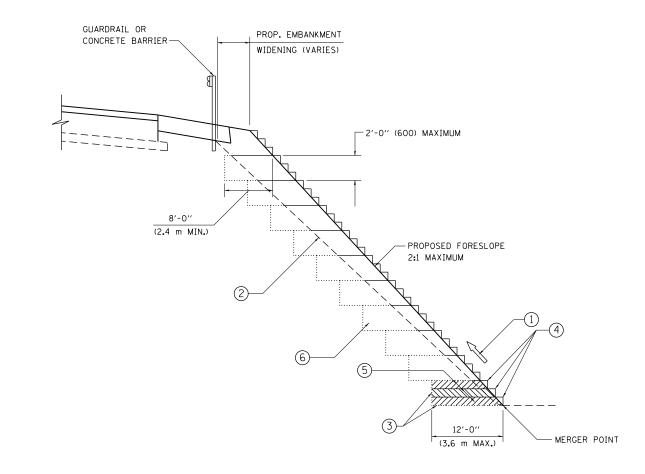
* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

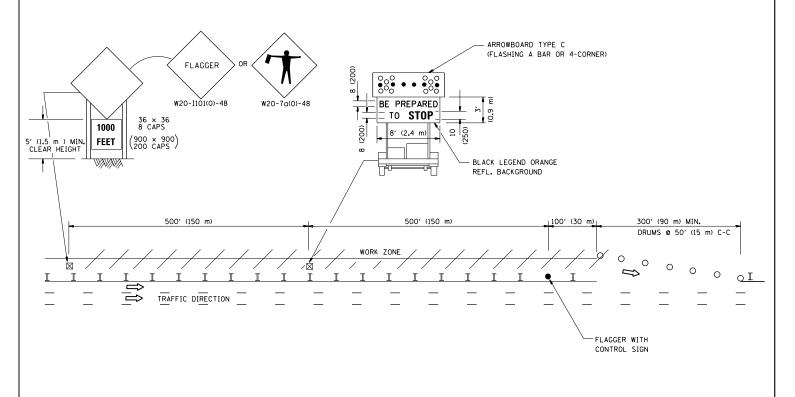
- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03
 OF THE STANDARD SPECIFICATIONS.
- 3) BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- TRIM TO FINAL SLOPE.
- 5 EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- 6 EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- TO SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

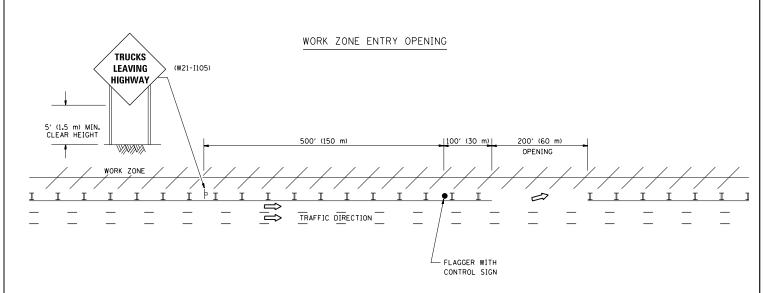
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	PLOT SCALE = 100.0000 '/ in.	CHECKED - S.E.B.	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE = 12/12/2012	DATE - 06-16-04	REVISED -		SCALE: NONE

		SHEEDS STREETHISE SHOWING					
BENCHING DE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
FOR EMBANKMENT	WIDENING		335	146N-2	MCHENRY	65	49
	WIDEINING			BD-51	CONTRACT	NO.	60K2C
CHEET NO 1 OF 1 CHEETC	I CTA	TO CTA	FF0 00	40 DIST NO 4 THE PAGE SED AT	0.000.507		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING

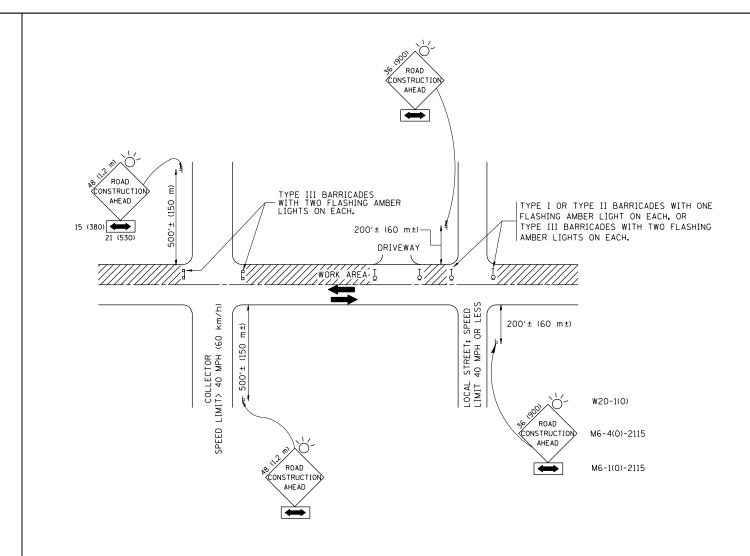




NOTES:

- 1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
- 2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
- 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED - J.A.F. 04-03		SIGNING FOR FLAGGING OPERATIONS	RTE.	SECTION	COUNTY SHEETS NO.
c:\pw_work\pwidot\abreuah\dms99207\Dist	td.dgn	DRAWN -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS		335	146N-2	MCHENRY 65 50
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - S.P.B. 01-07	DEPARTMENT OF TRANSPORTATION	AT WORK ZONE OPENINGS		TC-18	CONTRACT NO. 60K20
	PLOT DATE = 12/12/2012	DATE -	REVISED - S.P.B. 12-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DI	ST. NO. 1 ILLINOIS FED. AI	



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
- Q) 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:
- d) 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 ROLLTE.
- 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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

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.

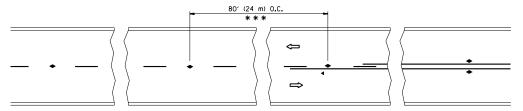
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = abreuah	DESIGNED	-	LHA	REVISED	- ,	J. OBERLE 10	-18-95
c:\pw_work\pwidot\abreuah\dms99207\DistS	td.dgn	DRAWN	-		REVISED	- ,	A. HOUSEH 03	-06-96
	PLOT SCALE = 100.0000 '/ in.	CHECKED	-		REVISED	-	A. HOUSEH 10	-15-96
	PLOT DATE = 12/12/2012	DATE	-	06-89	REVISED	-T.	RAMMACHER (01-06-00

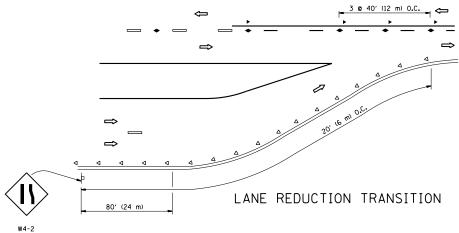
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

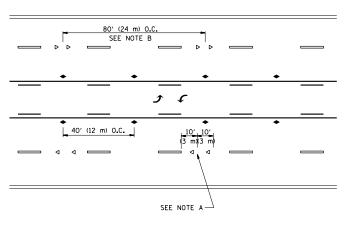
	TRAFFIC CONTROL AND PROTECTION FOR					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					335	146N-2	MCHENRY	65	51
						TC-10	CONTRACT	NO.	60K20
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



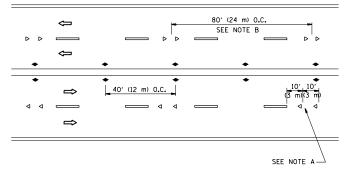
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

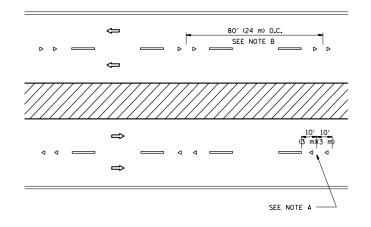




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 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.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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.

SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

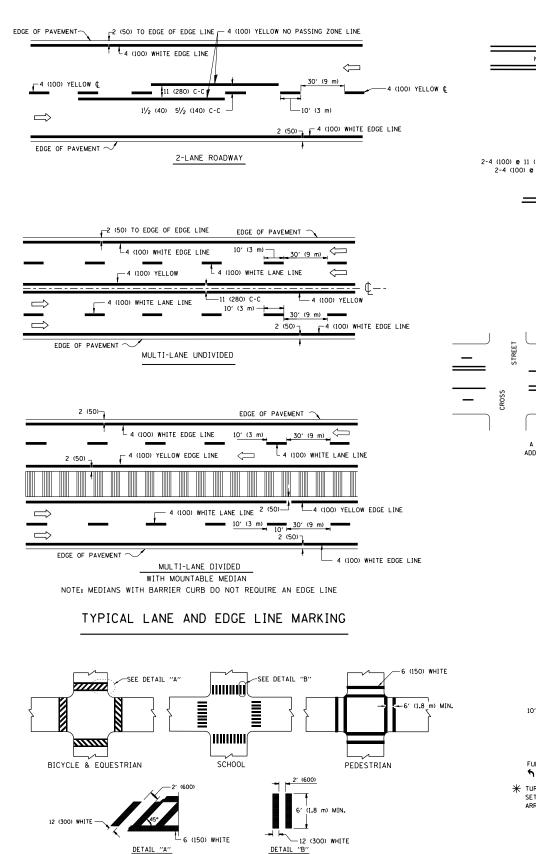
DESIGN NOTES

- 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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

LEFT TURN

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

FILE NAME =	USER NAME = abrevah	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS		RTF.	SECTION	COUNTY	SHEFTS	SHEE!
c:\pw_work\pwidot\abreuah\dms99207\Dist\$	td.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS				335	146N-2	MCHENRY	65	52
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	KAISED	REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW	V RESISTANT)		TC-11	CONTRACT	T NO. 6	60K20
	PLOT DATE = 12/12/2012	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLING	OIS FED. AID PROJECT		



TYPICAL CROSSWALK MARKING

USER NAME = abreuah

PLOT DATE = 12/12/2012

DESIGNED - EVERS

03-19-90

REVISED

DRAWN

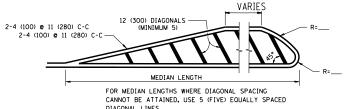
DATE

CHECKED

FILE NAME =

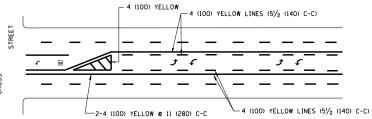
4' (1.2 m) OUTSIDE TO NO DIAGONALS OUTSIDE OF LINES - 2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

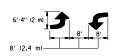


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

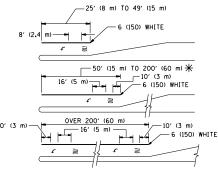


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS,



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

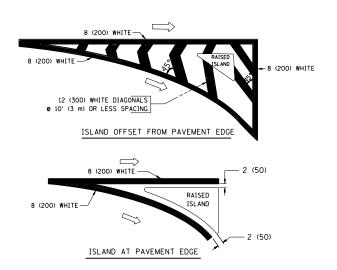


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

 \divideontimes 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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



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 UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOL ID SOL ID	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	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 5EE 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 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
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 (0VER 45MPH (70 km/h))

TO STA.

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

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

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

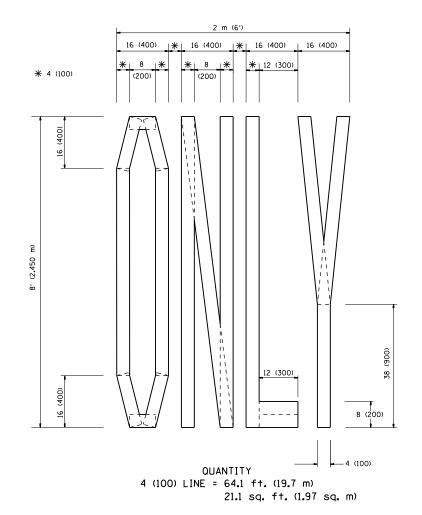
TC-13

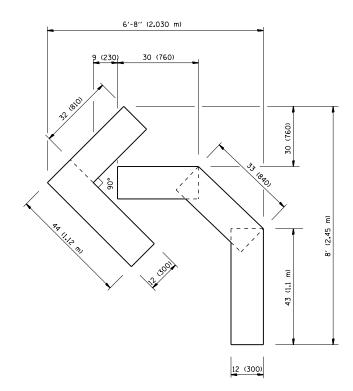
FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

COUNTY TOTAL SHEET NO. MCHENRY 65 53

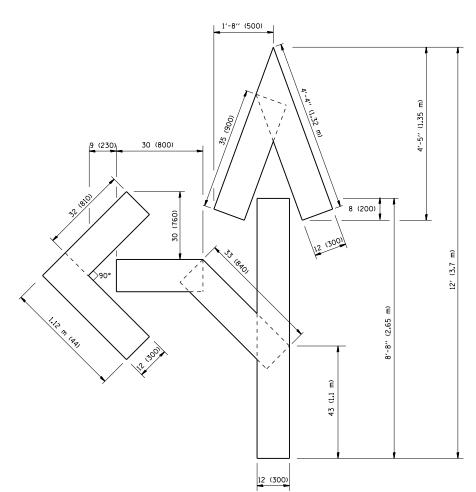
CONTRACT NO. 60K20

REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A.P. RTE.	SECTION
REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS	TYPICAL PAVEMENT MARKINGS	335	146N-2
REVISED -	DEPARTMENT OF TRANSPORTATION	TTPICAL PAVEINENT INANKINGS		TC-13





OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



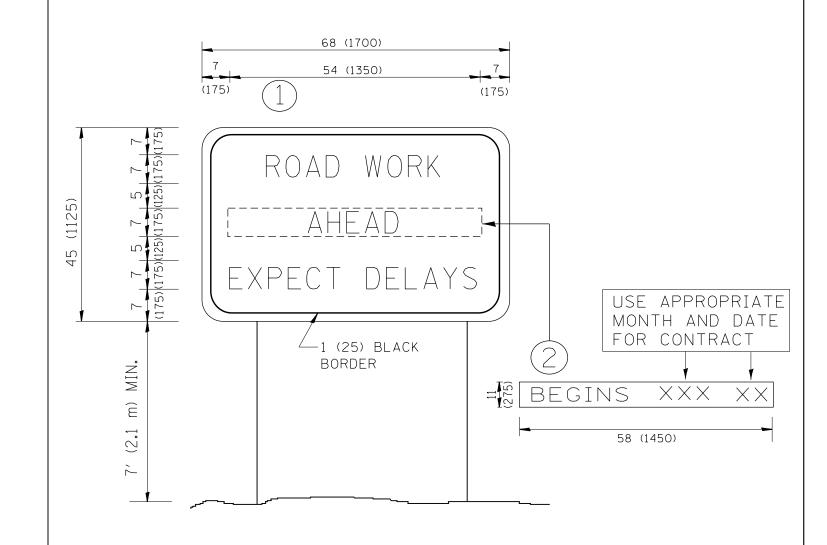
QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = abreuah	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	
c:\pw_work\pwidot\abreuah\dms99207\DistS	td.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEI
	PLOT DATE = 12/12/2012	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00	

STATE	OF ILLINOIS	
DEPARTMENT	OF TRANSPORTATION	N

PAVEMENT MARKING LETTERS AND SYMBOLS					RTE.	SECTION	COUNTY	SHEETS	NO.
	FOR TRAFFIC STAGING						MCHENRY	65	54
FUR TRAFFIC STAGING						TC-16	CONTRACT	NO.	60K20
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID 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.

FILE NAME =	USER NAME = abrevah	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\abreuah\dms99207\Dis	Std.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		335 146N-2	MCHENRY 65 55
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 60K20
	PLOT DATE = 12/12/2012	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	

