STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-5

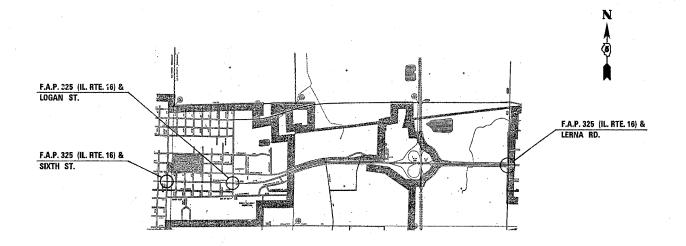
PLANS FOR PROPOSED **HIGHWAY IMPROVEMENT**

SCALES PLAN
PROFILE HORIZ.
PROFILE VERT.
CROSS SECTIONS

FAP ROUTE 325 (ILLINOIS ROUTE 16) **SECTION 501 COLES COUNTY** PROJECT HS-0325 (044)

C-95-060-04

TRAFFIC SIGNAL MODERNIZATION



CITY OF MATTOON

CONTRACT NO. 70415

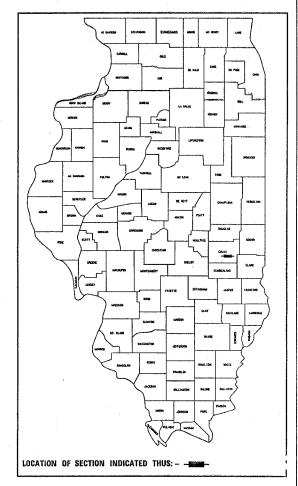
TOTAL LENGTH OF SECTION & PROJECT = NET LENGTH OF SECTION & PROJECT =

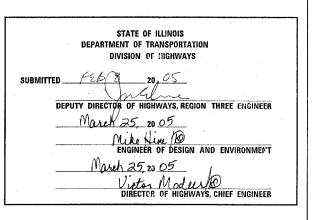
FEET =

MILES

SECTION 325 COLES 26

> CONTRACT NO. 70415 D-95-057-04





FOR UNDERGROUND UTILITY LOCATIONS CALL TOLL FREE J.U.L.I.E. TELEPHONE NO. 1-800-892-0123 **MATTOON & LAFAYETTE TOWNSHIPS** U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION DIVISION ADMINISTRATOR

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

SECTION 5051 COLES COUNTY

DESIGN DESIGNATION

N/A

GENERAL NOTES

G.N.-100 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-1004.01 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

C.N.-1004.03
REVISE ARTICLE 1004.03 (c) NOTE 5/ OF THE STANDARD SPECIFICATIONS TO READ:

'5/ GRADATION CA-16 SHALL BE USED IN LIEU OF CA-13 WHEN THE SURFACE COURSE IS LESS THAN 1 3/4 INCHES IN THICKNESS. CA-13 OR CA-16 MAY BE USED WHEN THE SURFACE COURSE IS 1 3/4 INCHES OR MORE IN THICKNESS.'

G.N.-105.09A ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY
THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C
&/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED
APPROXIMATE ONLY.

UTLILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L. I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123.

G.N.-202
GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MANMADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-353
THE SHADED AREAS OF P.C. CONCRETE BASE COURSE CONSTRUCTED ADJACENT TO COMBINATION CONCRETE CURB AND GUTTER AS SHOWN IN THE PLANS SHALL BE POURED MONOLITHIC WITH THE COMBINATION CONCRETE CURB AND GUTTER. THIS WORK WILL BE MEASURED AND INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PORTLAND CEMENT CONCRETE BASE COURSE OF THE THICKNESS SPECIFIED IN THE PLANS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-406
THE QUANTITIES INCLUDED IN THE PLANS FOR BITUMINOUS
CONCRETE RESURFACING ARE INTENDED TO GIVE THE COVERAGE
SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO
INCREASE THE THICKNESS OF THE BITUMINOUS MIXTURE IN ORDER
TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G. N. -406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):

Mixture Use(s):

AC/PG:

RAP %: (Max) **

Design Air Voids:
Mixture Composition:
(Gradation Mixture)
Friction Aggregate:

Mix D

6th St. Rt. Turn Lane
Surface
4.0% e 04-22
4.0% e Ndes = 70
IL 9.5
Mix D

G.N.-440B
THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND
EXISTING MEDIANS, GUTTERS AND/OR COMBINATION CURB AND
GUTTERS THAT ARE FOUND SUITABLE FOR REUSE SHALL BE CLEANED,
STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.
ANY EXISTING TIE BARS THAT ARE FOUND UNSUITABLE TO BE
INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO
EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH
THE FACE OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE
THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE
202.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
325	50I	COLES	26	2					
CONTRACT NO. 70415									

INDEX OF SHEETS

SHEET NO.	ITEM
1 2 3-5 6-9	COVER SHEET INDEX OF SHEETS, STANDARDS IN THE PLANS & GENERAL NOTES SUMMARY OF QUANTITIES TYPICAL CROSS - SECTIONS
10 11	SCHEDULE OF QUANTITIES ROADWAY PLAN SHEET - IL. 16 & 6TH ST.
12-20 21	TRAFFIC SIGNAL PLAN SHEETS DETAIL OF DEPRESSING GUTTER GRADE AT INLETS, CATCH BASINS AND MANHOLES
21	DETAIL OF P.C. CONCRETE DRIVEWAYS
22-24 25-26	DETAIL OF TYPICAL APPLICATION OF PAVEMENT MARKINGS AND MARKERS CROSS - SECTIONS

STANDARDS IN THE PLANS

	·
420001-05 602301	PAVEMENT JOINTS INLET, TYPE A
604001-02	FRAME AND LIDS, TYPE 1
604006-02	FRAME AND GRATE, TYPE 3
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-01	TRAFFIC CONTROL
701106-01	TRAFFIC CONTROL
701421-01	TRAFFIC CONTROL
701601-04	TRAFFIC CONTROL
701701-04	TRAFFIC CONTROL
702001-05	TRAFFIC CONTROL DEVICES
720016-01	MAST ARM MOUNTED STREET NAME SIGNS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
877001-0 2	STEEL MAST ARM ASSEMBLY AND POLE
877011-02	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001-03	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTION LOOPS
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT

SUMMARY OF QUANTITIES

ON COUNTY SHEETS NO.

COLES 26 3

CONTRACT NO. 70415

	LOCATION OF WORK:	ž		FAP 325 IL. 16 & 6TH ST. 90% FED. 10% STATE	FAP 325 IL. 16 & 6TH ST. 90% FED. 5% STATE 5% CITY	FAP 325 IL. 16 & LOGAN ST 90% FED. 5% STATE	FAP 325 IL. 16 & LERNA RD. 90% FED. 10% STATE	FAP 325 IL. 16 & LERNA RD.
	CONSTRUCTION TYPE CODE:		URBAN	1000 - 1A	Y031 - 1F	5% CITY Y031 - 1F	Y031 - 1F	Y030 - 1E
CODE NO	ITEM	UNIT	TOTAL QUANTITY					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16.0	16.0				
20200100	EARTH EXCAVATION	CU YD	199.0	199.0				
20800150	TRENCH BACKFILL	CU YD	2. 4	2. 4				
25200110	SODDING, SALT TOLERANT	SQ YD	94.0	94.0	*			
25200200	SUPPLEMENTAL WATERING	UNIT	.6	. 6		Ψ,		
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	489.0	489.0				
35300210	PORTLAND CEMENT CONCRETE BASE COURSE 7 1/2"	SQ YD	380.0	380.0		•		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	23.0	23.0				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	154.0	154.0				
44000100	PAVEMENT REMOVAL	SQ YD	55.0	55.0				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	62.0	62.0				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	348.0	348.0				
44000600	SIDEWALK REMOVAL	SQ FT	284.0	284.0				
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	10.0	10.0				
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1.0	1.0		t a		
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1.0	1.0				
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	1.0	1.0				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE 8-6.24	FOOT	318.0	318.0				
67100100	MOBILIZATION	L SUM	1.0	0.2	0.3	0. 2	0.3	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1.0	* *	¥		1.0	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1.0		0.5	0.5		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0	0. 2	0.3	0.2	0.3	4
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	78.0	78.0				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	613.0	613.0				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	295.0	295.0				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	38. 0	38.0			*	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	84.0	84.0				
80500100	SERVICE INSTALLATION, TYPE A	EACH	2. 0		1.0		1.0	
80802100	WOOD POLE, 35 FT., CLASS 4	EACH	2.0		1.0		1.0	
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	372.0		144.0	105.0	123.0	
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	738.0		16.0		722.0	
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	308.0		94.0	82.0	132.0	

A.P. TE.	SECTION	COUNTY	TOTAL	SHEET NO.					
325	501	COLES	26	4					
CONTRACT NO. 70415									

SUMMARY OF QUANTITIES (Cont'd)

	LOCATION OF WORK:			FAP 325 IL. 16	FAP 325 IL. 16	FAP 325 IL. 16	FAP 325 IL. 16	FAP 325 IL. 16
				& 6TH ST. 90% FED. 10% STATE	& GTH ST . 90% FED. 5% STATE 5% CITY	& LOGAN ST 90% FED. 5% STATE 5% CITY	& LERNA RD. 90% FED. 10% STATE	& LERNA RD.
	CONSTRUCTION TYPE CODE:		TOTAL	I000-1A	Y031 - 1F	Y031 - 1F .	Y031 - 1F	Y030 - 1E
CODE NO	ITEM	UNIT	TOTAL QUANTITY					
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	F00T	28.0		28.0			
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	88.0	b	29.0	32.0	27.0	
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	77.0		44.0		33.0	
81013100	CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	75.0				75.0	
81013200	CONDUIT IN TRENCH, 6" DIA., PVC	FOOT	4.0		4.0			
81021550	CONDUIT, AUGERED 2" DIA., PVC	FOOT	82.0				82.0	
81021570	CONDUIT, AUGERED 3" DIA., PVC	FOOT	551.0		173.0	179.0	199.0	
81021590	CONDUIT, AUGERED 4" DIA., PVC	FOOT	185.0		59.0		126.0	
81030100	CONDUIT SPLICE	EACH	2.0		1.0	1.0		
81400100	HANDHOLE	EACH	15.0		7.0	2. 0	6. 0	
81400300	DOUBLE HANDHOLE	EACH	2.0		1.0		1.0	
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,690.0		359.0	219.0	1, 112.0	
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1, 961.0					1,961.0
82103400	LUMÍNAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4.0					4.0
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2.0		1.0		1, 0	
86600010	GULFBOX JUNCTION	EACH	4.0				4.0	
86600020	GULFBOX JUNCTION REMOVAL	EACH	6.0				6.0	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	593.0		593.0			
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4, 338. 0		631.0	771.0	2, 936. 0	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3, 792. 0		2,076.0	522.0	1, 194. 0	
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	6, 355.0		1,833.0	1,073.0	3, 449. 0	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	44.0		20.0		24.0	
87502660	TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	3.0			1.0	2.0	
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	3.0			1.0	2. 0	
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	4.0		4.0			
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1.0	<u>t</u>	1.0			
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1.0		1.0			
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1.0		1.0			

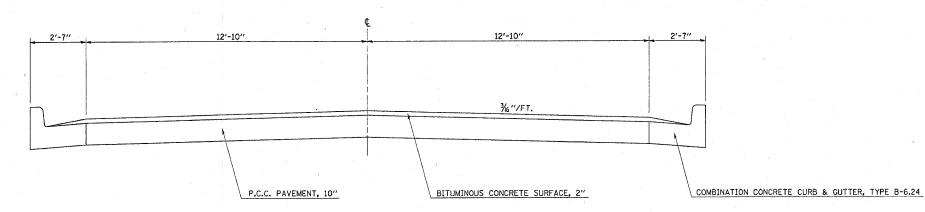
SUMMARY OF QUANTITIES (Cont'd)

	LOCATION OF WORK:			FAP 325 IL. 16 &	FAP 325 IL. 16 &	FAP 325 IL. 16 &	FAP 325 IL. 16 &	FAP 325 IL. 16 &
				6TH ST. 90% FED. 10% STATE	6TH ST 90% FED. 5% STATE 5% CITY	LOGAN ST 90% FED. 5% STATE 5% CITY	LERNA RD. 90% FED. 10% STATE	LERNA RD.
	CONSTRUCTION TYPE CODE:		TOTAL	I000-1A	Y031 - 1F	Y031 - 1F	Y031 - 1F	Y030 - 1E
CODE NO	ITEM	UNIT	TOTAL QUANTITY					
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2.0		1.0	1.0		
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2.0				2.0	
87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1.0				1.0	
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1.0	*			1.0	
87800100	CONCRETE FOUNDATION. TYPE A	FOOT	31.0		12.4	6. 2	12.4	
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	7. 0		3.5		3. 5	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	114.0		42.0	24.0	48.0	
87900200	DRILL EXISTING HANDHOLE	EACH	2. 0			1.0	1.0	
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	24.0		8.0	8.0	8.0	
88500100	INDUCTIVE LOOP DETECTOR	EACH	21.0		9. 0		12.0	
88600100	DETECTOR LOOP, TYPE I	FOOT	2, 106. 0		981.0	556.0	569.0	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8.0		8.0		N.	
89501300	RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1.0			1.0		
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1,0				1.0	
89502200	MODIFY EXISTING CONTROLLER	EACH	1.0			1.0		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3, 890, 0		433.0	3, 283, 0	174.0	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3.0		1.0	1.0	1.0	
89502380	REMOVE EXISTING HANDHOLE	EACH	15.0		8.0	2.0	5.0	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	23.0		10.0	4.0	9.0	
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	43.0					
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,462.0		589.0		873.0	•
X8801300	SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0			2.0	2.0	
X8801310	SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16.0	4	4.0	6.0	6.0	
X8801400	SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8.0		4.0	2.0	2.0	
X8801415	SIGNAL HEAD , POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2.0				2.0	
X8801437	SIGNAL HEAD , POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	8.0		4.0	2. 0	2.0	
X8810495	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	4.0		4.0			4

EXISTING TYPICAL CROSS SECTION

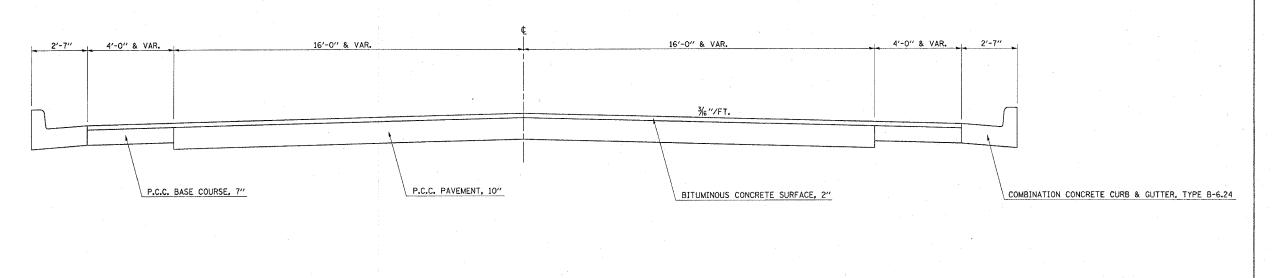
6TH ST.

STATION 96+56 TO STATION 98+10.5



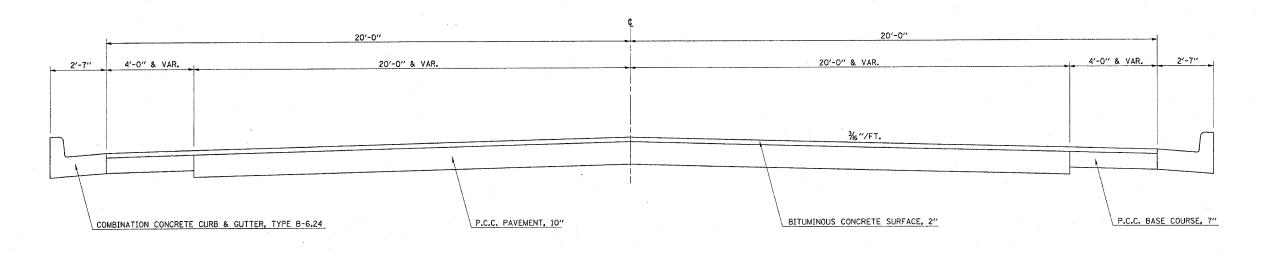
EXISTING TYPICAL CROSS SECTION 6TH ST.

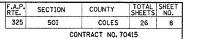
STATION 98+10.5 TO STATION 98+82



EXISTING TYPICAL CROSS SECTION 6TH ST.

STATION 98+82 TO STATION 99+31

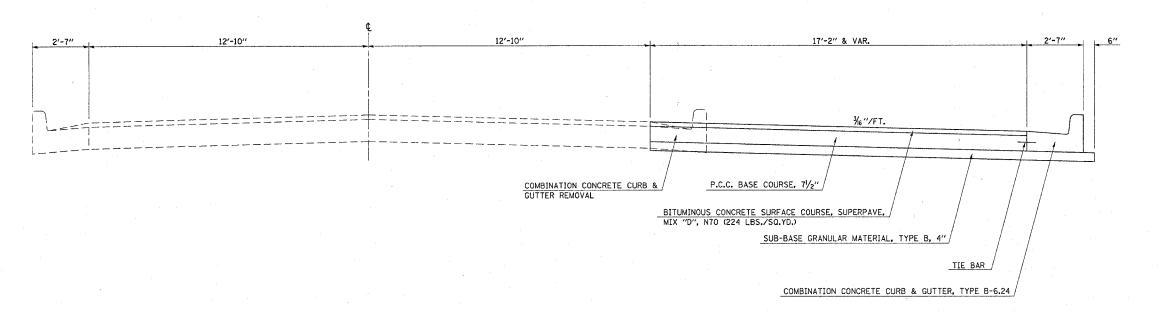




PROPOSED TYPICAL CROSS SECTION

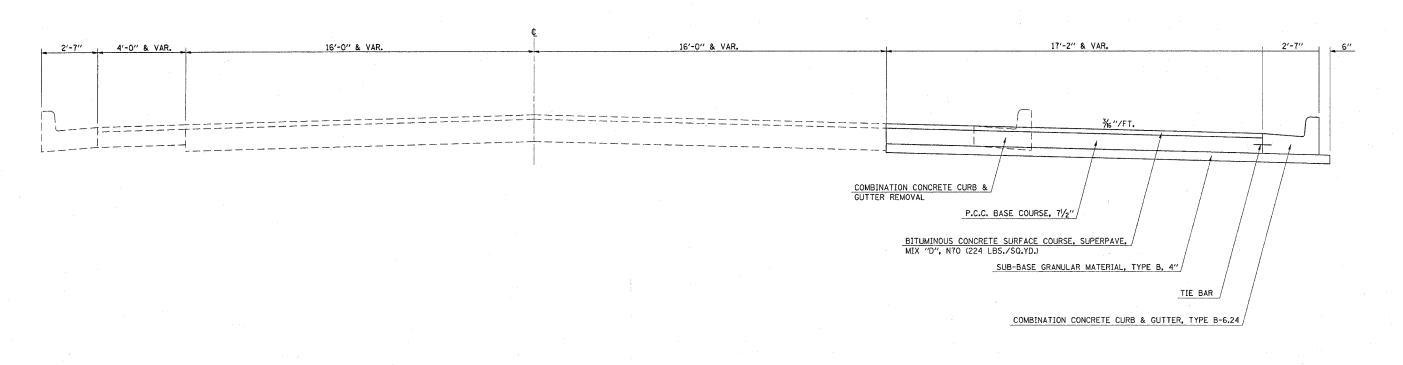
6TH ST.

STATION 96+56 TO STATION 98+00



PROPOSED TYPICAL CROSS SECTION 6TH ST.

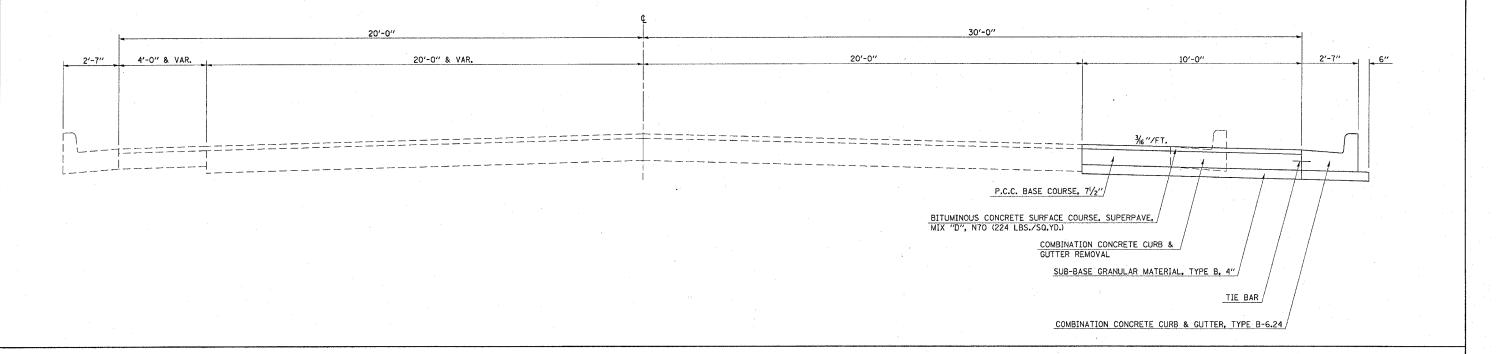
STATION 98+00 TO STATION 98+82



PROPOSED TYPICAL CROSS SECTION 6TH ST.

| F.A.P. | SECTION | COUNTY | SHEETS | NO. | 325 | 501 | COLES | 26 | 9 | | CONTRACT NO. 70415

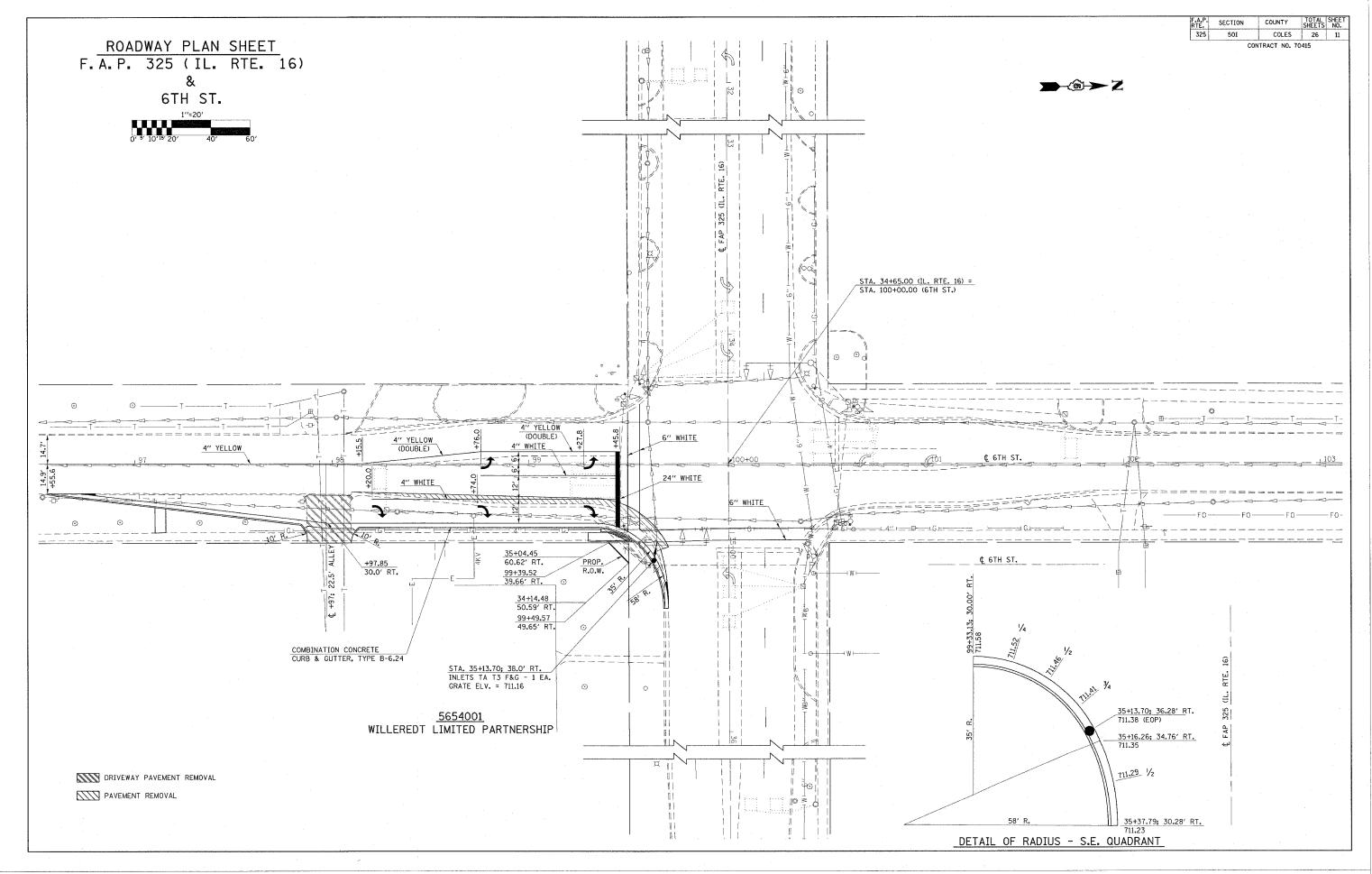
STATION 98+82 TO STATION 99+35

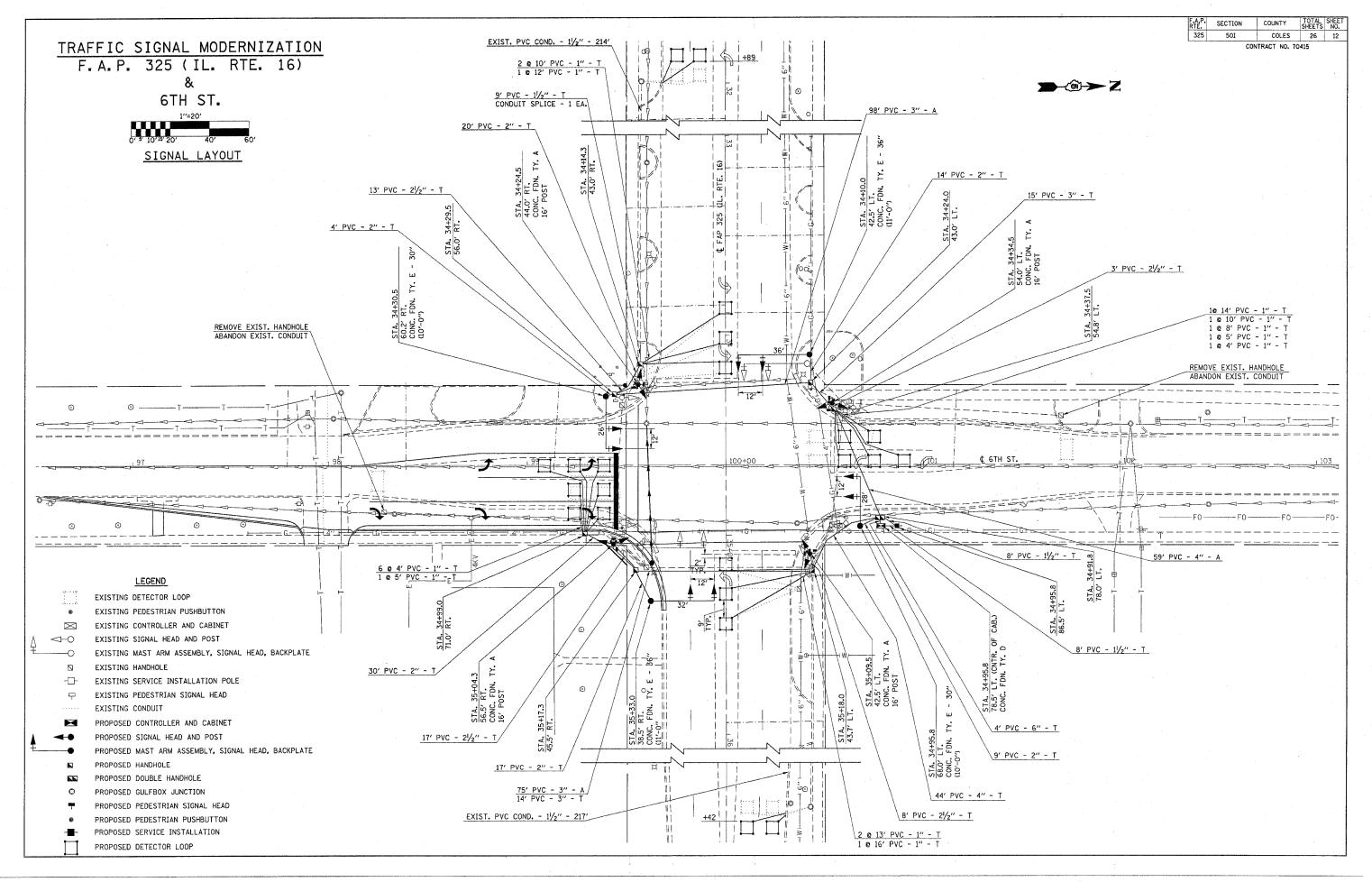


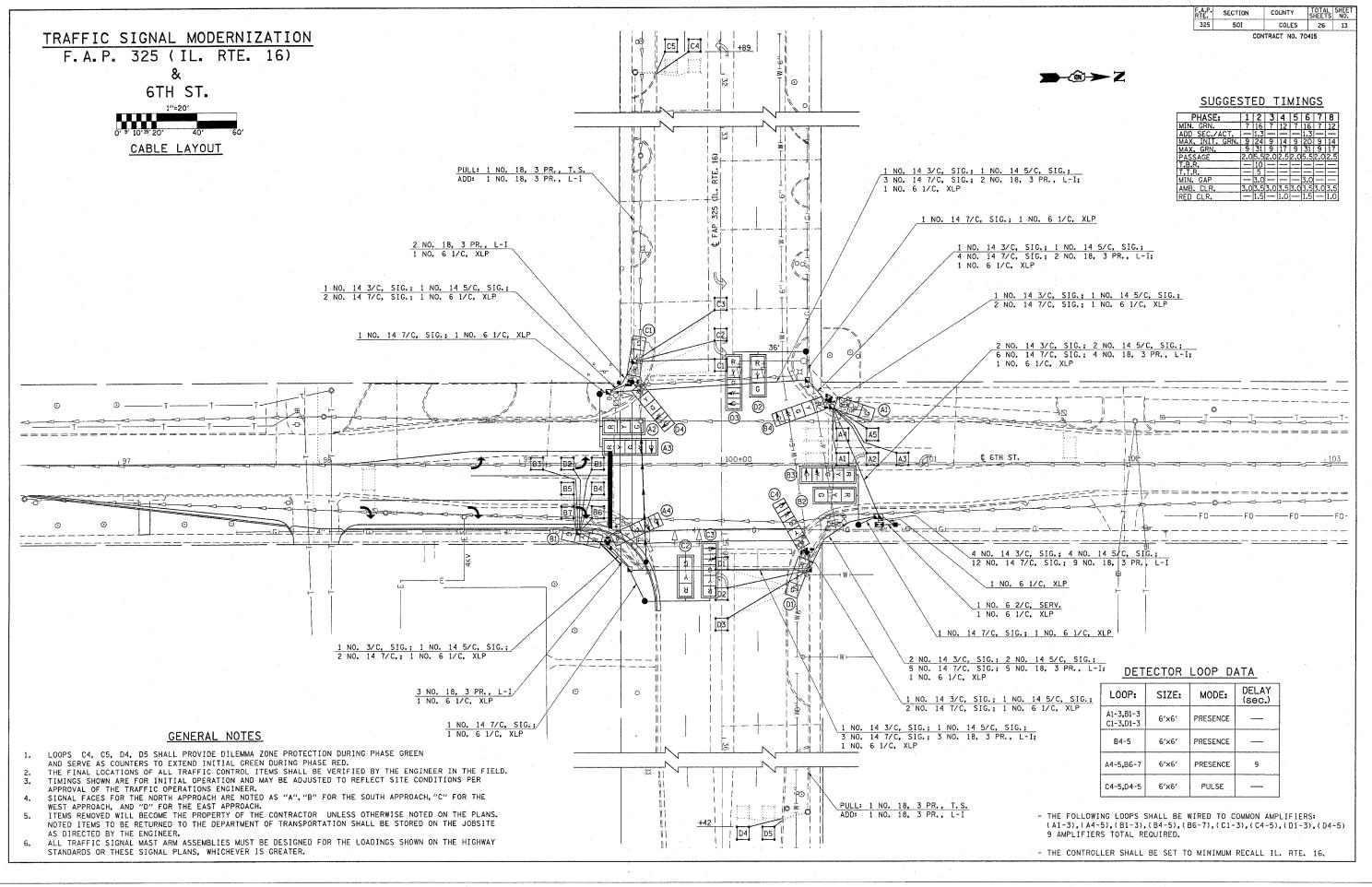
6TH STREET SCHEDULE OF QUANTITIES

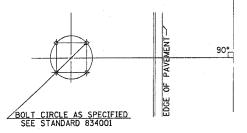
F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
325	501	COLES	26	10

TREE REMOVAL OVER 15		MAN ADJ NEW T1F CL					REMOVE EXIST CONC FOUND	ATION
LOCATION	UNIT	LOCATION		EACH			LOCATION	EACH_
STA. 97+33; 29.3′ RT.	16 UNIT	STA. 98+33; 24.2' RT.		1 EACH			34+23.5; 42.8′ RT.	1
							34+31.2; 52.2′ RT. 34+14.6; 41.3′ LT.	1 1
SODDING, SALT TOLERANT		REMOVE CB - MAINTAIN FI	_OW				34+26.2; 42.6' LT. 34+36.9; 64.6' LT.	1 1
STATION TO STATION	SQ. YD.	LOCATION	Tarah, making	EACH			34+94.4; 60.8' LT. 34+95.7; 56.9' LT.	1 1
96+49 RT. 97+10 RT.	33	STA. 35+06.2; 36' RT.		1 EACH			35+11.9; 42.1' LT. 34+95.1; 53.6' RT.	1 1
97+11 RT. 97+68.5 RT. 98+14.5 RT. 99+36 RT.	36 25						35+06.3; 43.3′ RT.	1
TOTAL =	94 SQ. YD.	THPL PVT MK LINE 4						TOTAL = 10 EACH
		STATION TO STATION		FOOT				į
PCC DRIVEWAY PAVT 6		CL 96+52.3 CL 98+19		164	YELLOW		<u>HANDHOLE</u>	
LOCATION	SQ. YD.	CL 98+15.5 98+75.8; 98+75.8; 6' LT.99+43.8;	6' LT.	120 136	DBL YELLOW DBL YELLOW		LOCATION	EACH
RT. 97+97	23 SQ. YD.	98+75.8; 6' RT.99+43.8; 98+20.6; 18' RT.99+43.8;		69 124	WHITE WHITE		34+24.0; 43.0′ LT. 34+37.5, 54.8′ LT.	1 1
			TOTAL =	613 F00T			34+99.0; 71.0′ RT. 35+17.3; 45.5′ RT.	1 1
PC CONCRETE SIDEWALK 5							34+14.3; 43.0′ RT. 34+29.5; 56.0′ RT.	1 1
STATION TO STATION	SQ. FT.	THPL PVT MK LTR & SYI	<u>M</u>				35+18.0; 43.7′ LT.	1 7 5 1 0 1
RT. 97+10 RT. 97+15.5	69 85	LOCATION	<u>_</u>	0. FT.				TOTAL = 7 EACH
RT. 99+24 RT. 99+52		98+20.5 RT TURN LANE		15.6			CONC FOUNDATION TY A	
TOTAL -	154 SQ. FT.	98+73.5 RT TURN LANE 98+75.0 LT TURN LANE 99+22.5 LT TURN LANE		15.6 15.6 15.6			LOCATION	<u>F00T</u>
PAVEMENT REMOVAL		99+22.5 RT TURN LANE		15.6			34+24.5; 44.0′ RT.	3. 1
STATION TO STATION	SQ. YD.		TOTAL =	78 SQ. FT.			34+34.5; 54.0′ LT. 35+04.3; 56.5′ RT.	3. 1 3. 1
98+10.5; 14.2' R99+70.0; 42.0' R	55 SQ. YD.						35+09.5, 42.5′ LT.	3. 1
		THPL PVT MRK LINE 6						TOTAL = 12.4 FOOT
DRIVE PAVEMENT REMOVAL		LOCATION		FOOT				
LOCATION	SQ. YD.	SOUTH CROSS WALK EAST CROSS WALK		125 170			TS POST A 16	
RT. 97+97	62 SQ. YD		TOTAL =	295 F00T			LOCATION	<u>F00T</u>
							34+24.5; 44.0' RT. 34+34.5; 54.0' LT.	. 1
COMB CURB & GUTTER REM		THPL PVT MRK LINE 24					35+04.3; 56.5' RT. 35+09.5, 42.5' LT.	1 1
STATION TO STATION	FOOT	LOCATION		FOOT				TOTAL = 4 FOOT
RT. 96+56 RT. 99+57	348 F00T	SOUTH LEG STOP BAR		38 F00T				
							CONC FOUNDATION TY D	
SIDEWALK REMOVAL		PAVT MARKING REMOVAL					LOCATION	FOOT
STATION TO STATION	SQ. FT.	LOCATION		SQ. FT.			34+95.8; 68.0′ LT.	TOTAL = 3.5 FOOT
RT. 97+02.3 RT. 97+23.7 RT. 99+29.2 RT. 99+32.0	134 150	EAST CROSSWALK SOUTH CROSSWALK		45 11				
TOTAL =		SOUTH STOP BAR		28			CONC FOUNDATION TY E	
101112	201 044 711		TOTAL =	84 SQ. FT			LOCATION	<u>F00T</u>
SS 1 RCP CL 4 12		REMOVE EXIST HANDHOLE					34+10.0; 42.5' LT. 34+30.5; 60.2' RT.	11 10
STATION TO STATION	FOOT	LOCATION		EACH			34+95.8; 68.0′ LT. 35+33.0; 38.5′ RT.	10 11
35+03.5; 36.5′ L35+13.7; 38.0′ R	10 F00T	34+21.9; 45.6' RT.		1				TOTAL = 42 FOOT
		34+35.1; 52.1' RT 34+34.5; 60.0' LT.		1				
INLETS TA T3F&G		34+94.9; 53.9′ LT. 35+27.3; 36.9′ LT.		1 1				
LOCATION	EACH	35+16.0; 40.2' RT. 98+27.9; 23.5' RT.		1				
STA. 35+13.7; 38.0′ RT.	1 EACH	101+70.1; 24.5′ LT.		1 -:-				
			TOTAL =	8 EACH				









DETAIL OF MAST ARM FOUNDATION **BOLT PATTERN**

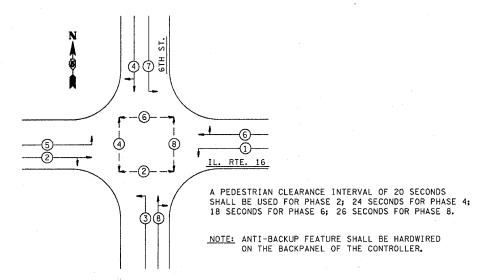
PEDESTRIAN PUSH-BUTTON SIGNS

PUSH BUTTON TO CROSS 6TH STREET

PUSH BUTTON TO CROSS CHARLESTON AVENUE

NOTE: PEDESTRIAN PUSH-BUTTON SIGNS SHALL BE MOUNTED ABOVE THE PEDESTRIAN PUSH-BUTTONS. THE SIGNS SHALL BE BOLTED TO THE POSTS. THE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTONS IN ACCORDANCE WITH SECTION 888 OF THE STANDARD SPECIFICATIONS.

PHASE DESIGNATION DIAGRAM



ITEMS TO BE RETURNED TO THE CITY OF MATTOON

ITEM	QUAN	TIT
CABINET & CONTROLLER	1	EA.
TS POST & BASE, ALUMINUM	1	EA.
SERVICE INSTALLATION	1	EA.
PED PUSH BUTTON & POST	1	EA.

F.A.P. SECTION COUNTY 50I COLES 26 14 CONTRACT NO. 70415

BILL OF MATERIALS IL. ROUTE 16 & SIXTH ST.

ITEM	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A	EACH	1
WOOD POLE, 35 FT., CLASS 4	EACH	i
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	144
CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	16
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	94
CONDUIT IN TRENCH. 2 1/2" DIA., PVC	FOOT	28
CONDUIT IN TRENCH. 3" DIA., PVC	FOOT	29
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	44
CONDUIT IN TRENCH. 6" DIA., PVC	FOOT	4
CONDUIT, AUGERED 3" DIA., PVC	FOOT	173
CONDUIT, AUGERED 4" DIA., PVC	FOOT	59
CONDUIT SPLICE	EACH	1
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	359
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	593
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	631
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2076
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1833
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	20
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT. STEEL MAST ARM ASSEMBLY AND POLE, 28 FT. STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	. 1
CONCRETE FOUNDATION, TYPE A	FOOT	12.4
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	42
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	981
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	433
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	. 10
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	589
SIGNAL HEAD .POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EAC	4
SIGNAL HEAD , POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EAC	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EAC	4

GENERAL NOTES

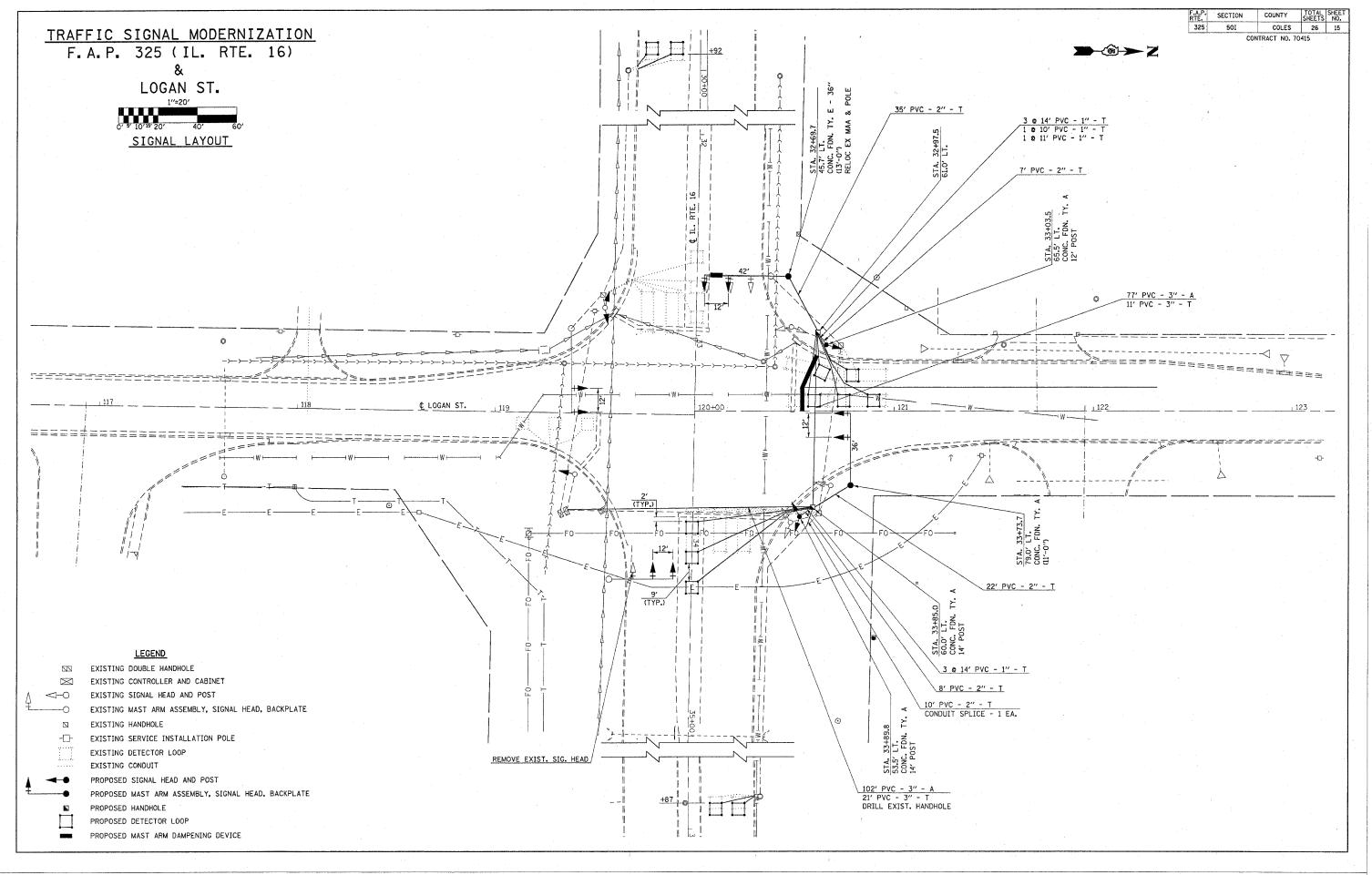
- 1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE:
 (A2, A3), (B2, B3), (C2, C3), (D2, D3) EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL
 CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.

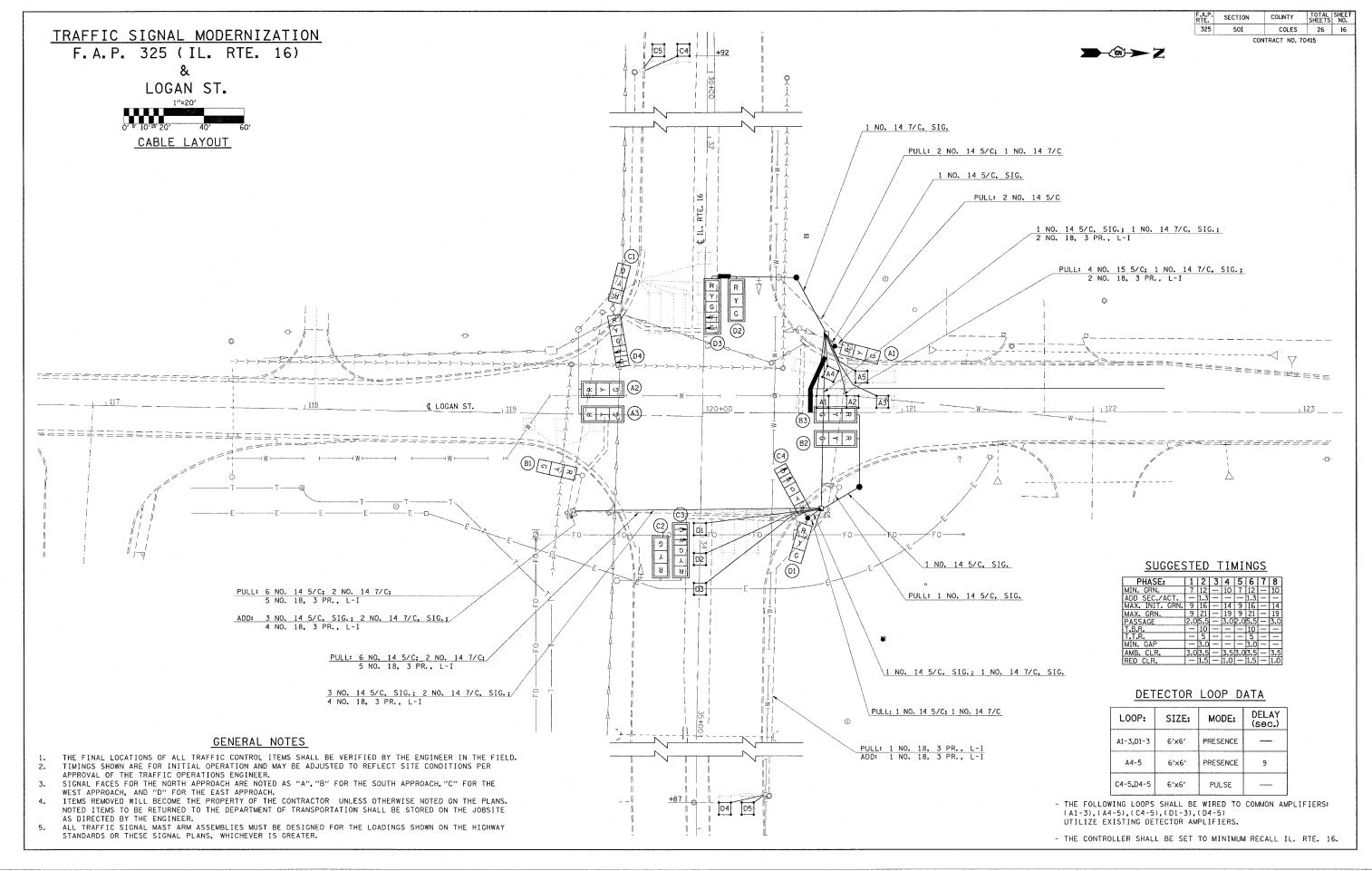
- 2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

 3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF THE FACE OF CURB.
- 4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB
- (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.

 5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.

 6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
- 7. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
 8. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.





50I COLES 26 17 CONTRACT NO. 70415

LOGAN ST. SCHEDULE OF QUANTITIES

REMOVE	EXIST	CONC	FOUNDATION	

LOCATION				<u>.</u>	ACH	-
32+70.0; 32+96.0;					1	
33+74. 0; 33+93. 2;	68.5'	LT.			1	
30.33.2,	10.0		TOTAL		4	FACH

REMOVE EXIST HANDHOLE

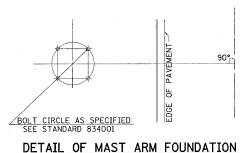
LOCATION				EACH	-
33+04.5; 33+88.5;				1 1	
		TOTAL	=	2	EACH

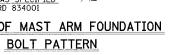
CONC FOUNDATION TY A

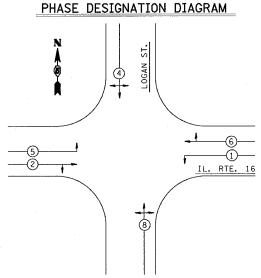
LOCATION				FOOT	-
32+97.5; 33+89.8,				3. 1 3. 1	
		TOTAL	=	6. 2	FOOT

CONC FOUNDATION TY E 36D

LOCATION		<u>F00</u>	<u>T_</u>
32+69.7; 45.7' 33+73.7; 79.0'		11 13	
	TOTAL	= 24	FOOT







BILL OF MATERIALS IL. ROUTE 16 & LOGAN ST.

<u>ITEM</u>	UNIT	QUANTITY
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	219
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	771
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	522
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1073
TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	1
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	6.2
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
DRILL EXISTING HANDHOLE	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	8
DETECTOR LOOP, TYPE I	FOOT	556
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3283
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED		2
SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED		2 6 2
SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, MO	EACH	
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	105
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	82
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	32
CONDUIT, AUGERED 3" DIA., PVC	FOOT EACH	179 1
CONDUIT SPLICE HANDHOLE	EACH	2
HANDOLE	EACH	۷.

GENERAL NOTES

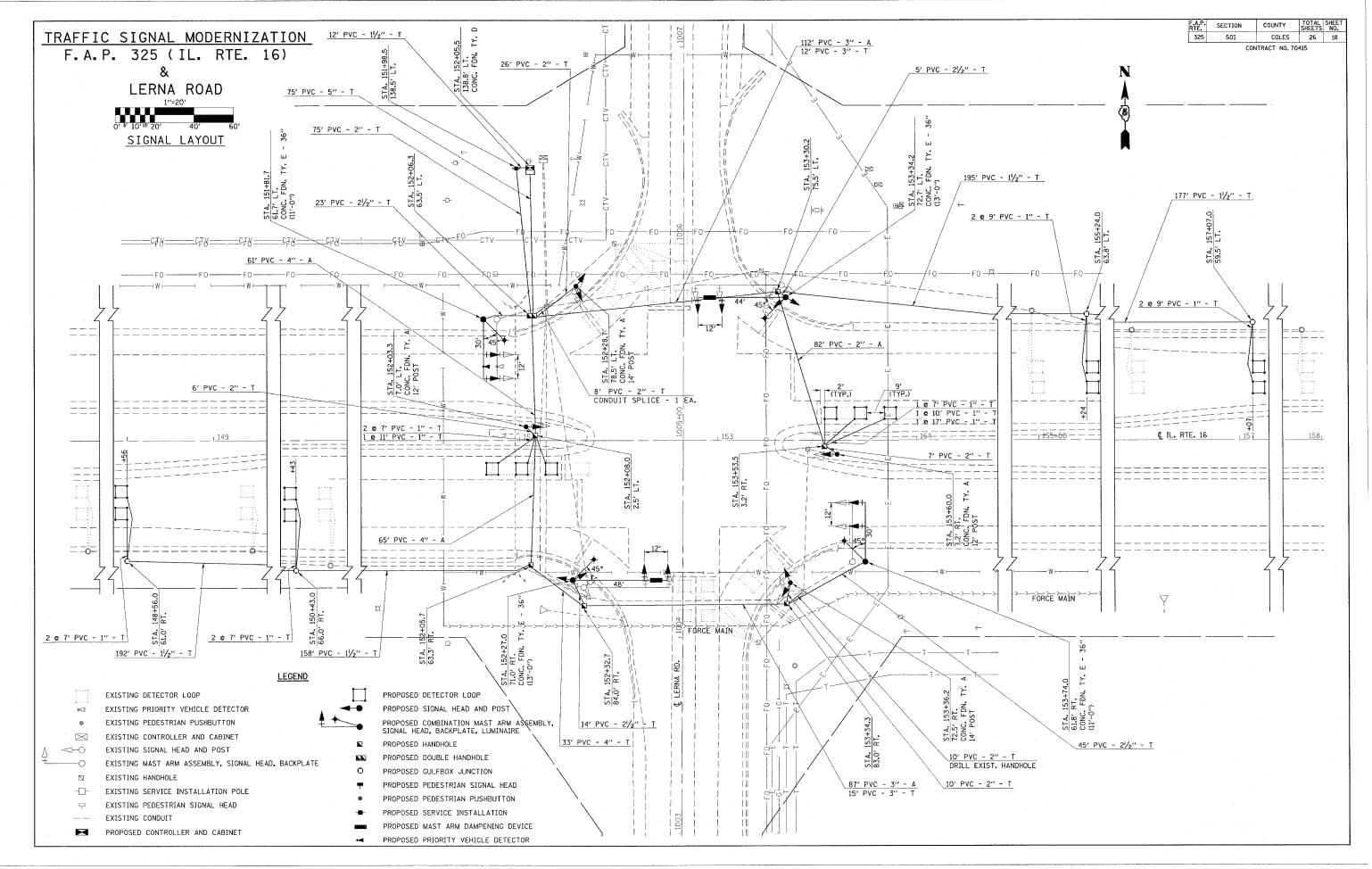
- 1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE:
 (A2, A3), (B2, B3), (C2, C3), (D2, D3) EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS
 OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.
 2. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE
- DETERMINED IN THE FIELD BY THE ENGINEER.

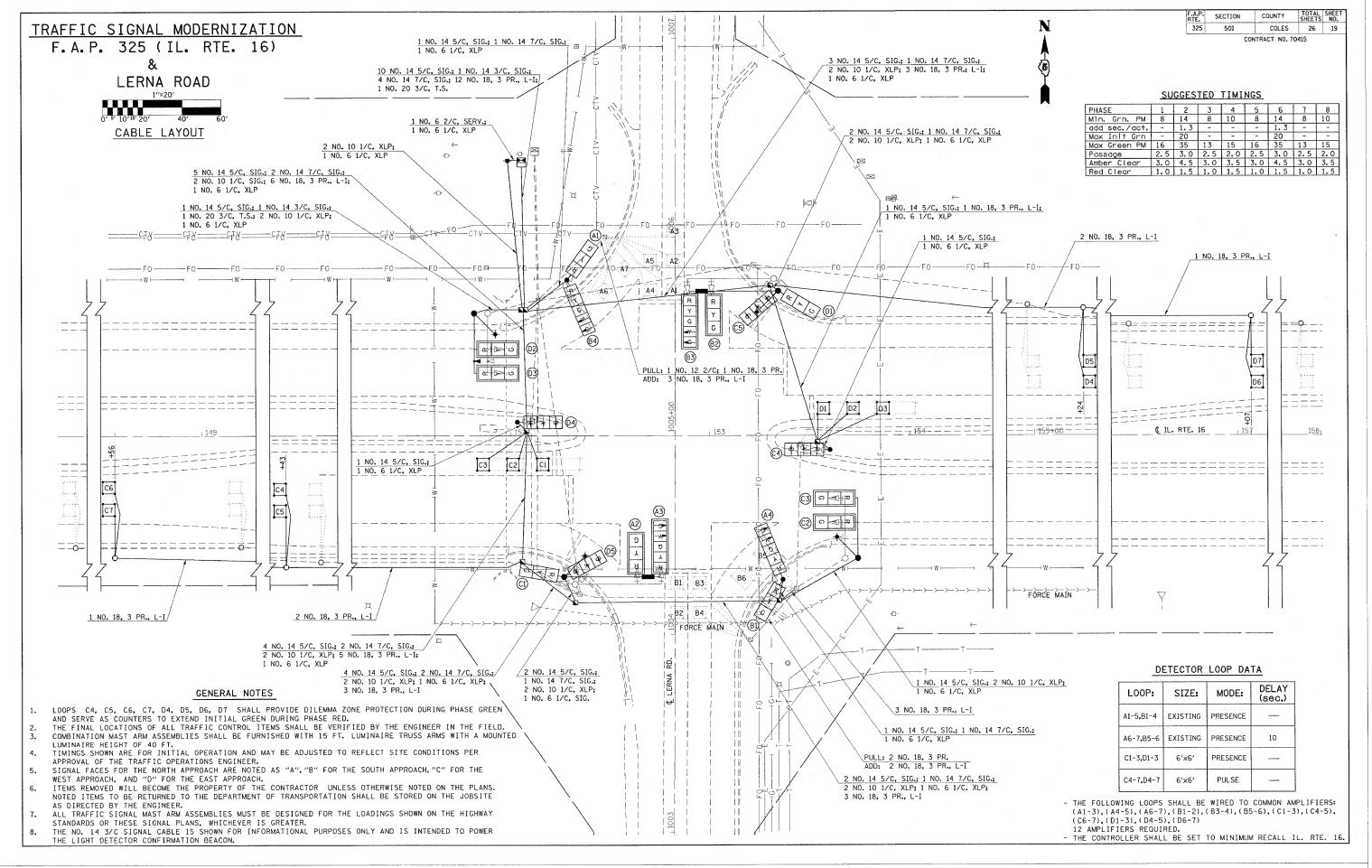
 3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF THE FACE OF CURB.
- THE FACE OF CURB.

 4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.

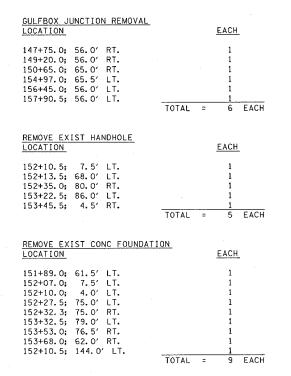
 5. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.

 6. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A
- SIDE AWAY FROM A TRAVELED LANE.

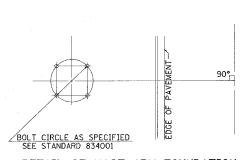




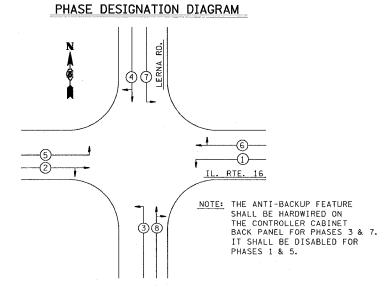
LERNA RD. SCHEDULE OF QUANTITIES



CONC FOUNDATION TY A LOCATION	<u>F00T</u>
152+03.3; 7.0' LT. 152+28.7; 78.5' LT. 153+36.2; 72.5' RT. 153+60.0; 7.2' RT.	3. 1 3. 1 3. 1 3. 1 TOTAL = 12. 4 FOOT
CONC FOUNDATION TY E 36 LOCATION	<u> </u>
151+81. 7; 61. 7' LT. 152+27. 0; 71. 0' RT. 153+34. 2; 72. 7' LT. 153+74. 0; 61. 8' RT.	11 13 13 13 11 TOTAL = 48 FOOT
CONC FOUNDATION TY D LOCATION 152+05.5; 138.8' LT.	<u>F00T</u> 3. 5 F00T



DETAIL OF MAST ARM FOUNDATION **BOLT PATTERN**



COUNTY COLES 26 20 501

CONTRACT NO. 70415

BILL OF MATERIALS IL. ROUTE 16 & LERNA RD.

<u>ITEM</u>	UNIT	QUANTITY
SERVICE INSTALLATION, TYPE A	EACH	1
WOOD POLE, 35 FT., CLASS 4	EACH	1
CONDUIT IN TRENCH. 1" DIA PVC	FOOT	123
CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	722
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	132
CONDUIT IN TRENCH. 3" DIA. PVC	FOOT	27
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	33
CONDUIT IN TRENCH. 5" DIA., PVC	FOOT	75
CONDUIT, AUGERED 2" DIA., PVC	FOOT	82
CONDUIT, AUGERED 3" DIA., PVC	FOOT	199
CONDUIT, AUGERED 4" DIA., PVC	FOOT	126
HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1112
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1961
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
GULFBOX JUNCTION	EACH	4
GULFBOX JUNCTION REMOVAL	EACH	6
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2936
	FOOT	1194
www.viiii	FOOT	3449
	FOOT	24
	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.		1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.		12. 4
CONCRETE FOUNDATION, TYPE A	FOOT	
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
DRILL EXISTING HANDHOLE	EACH	1 8
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	569
DETECTOR LOOP, TYPE I	FOOT	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	174
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	873
SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	. 2
SIGNAL HEAD , POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD , POLYCARBONATE, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD , POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	- 2
SIGNAL HEAD , POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2

GENERAL NOTES

- 1. THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE: (A2, A3), (B2, B3), (C2, C3), (D2, D3) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.

 THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE
- DETERMINED IN THE FIELD BY THE ENGINEER.
- 3. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF
- THE FACE OF CURB.

 4. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB
- (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB
- (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.

 6. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
- THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A
- SIDE AWAY FROM A TRAVELED LANE.
 THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET FOR PHASES 3 & 7. IT SHALL BE DISABLED FOR PHASES 1 & 5.

ITEMS TO BE RETURNED TO IL. DEPT. OF TRANS.

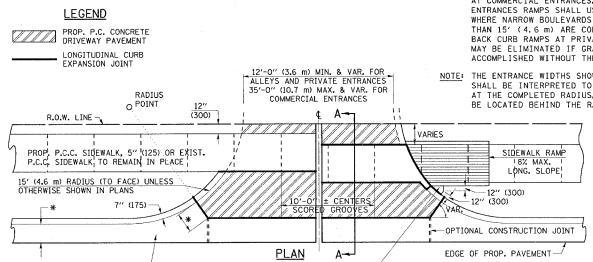
ITEM
CABINET & CONTROLLER

QUANTITY 1 EA.

ITEMS TO BE RETURNED TO THE CITY OF MATTOON

ITEM
TS POSTS & BASES, ALUMINUM

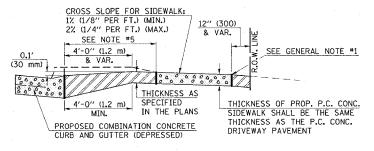
DETAIL OF P.C. CONCRETE DRIVEWAYS



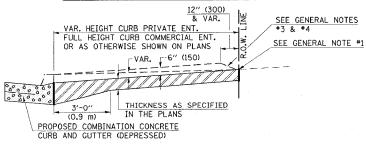
P.C. CONCRETE SIDEWALK, 5" (125) SHALL BE POURED BETWEEN THE CURB OF THE DRIVEWAY AND SIDEWALK RAMP, WHERE IN THE OPINION OF THE ENGINEER, CONSTRUCTION WILL CREATE A MOWING PROBLEM (I.E. POINTED AREAS ADJACENT

CROSS SLOPE FOR SIDEWALK: 1% (1/8" PER FT.) (MIN.) 2% (1/4" PER FT.) (MAX.) SEE GENERAL NOTE #1 SEE NOTE #5 THICKNESS OF PROP. P.C. CONC. SIDEWALK SHALL BE THE SAME THICKNESS AS THE P.C. CONC. THICKNESS AS SPECIFIED 3'-0" (0.9 m) IN THE PLANS DRIVEWAY PAVEMENT

CURB AND GUTTER (DEPRESSED SECTION A-A WITH POSITIVE GRADE



SECTION A-A WITH NEGATIVE GRADE



SECTION A-A WITHOUT SIDEWALK

	NAME	DATE	REVISIONS	
DESIGNED	J.M.H.	04/83	NAME	DATE
CHECKED	F.M.S.	04/83	D.L.P.	11/97
CADD NO.	C~:	1.14	K.A.G.	06/03

PROP. COMBINATION CONCRETE CURB AND GUTTER

PROPOSED COMBINATION CONCRETE

* WIDTH OF PROPOSED

GUTTER FLAG

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN NOTE: SIDEWALK RAMPS SHALL BE CONSTRUCTED AT COMMERCIAL ENTRANCES. AT PRIVATE ENTRANCES RAMPS SHALL USUALLY BE NEEDED WHERE NARROW BOULEVARDS OR RADII GREATER THAN 15' (4.6 m) ARE CONSTRUCTED. BACK CURB RAMPS AT PRIVATE ENTRANCES MAY BE ELIMINATED IF GRADING CAN BE ACCOMPLISHED WITHOUT THE CURB.

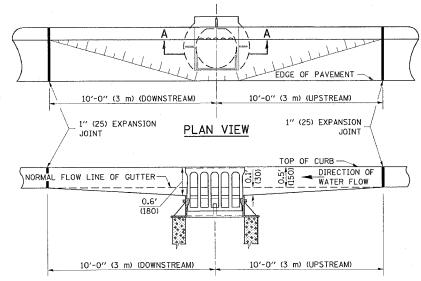
NOTE: THE ENTRANCE WIDTHS SHOWN ON THE PLANS SHALL BE INTERPRETED TO BE THE WIDTHS AT THE COMPLETED RADIUS, WHICH MAY BE LOCATED BEHIND THE R.O.W. LINE.

GENERAL NOTES

- 1. THIS LONGITUDINAL CURB EXPANSION JOINT SHALL BE PLACED ONLY WHERE THE PROPOSED P.C. CONCRETE SIDEWALK OR DRIVEWAY PAVEMENT MEETS AN EXISTING CONCRETE ENTRANCE. THE P.C.C. DRIVEWAY PAVEMENT WILL BE POURED MONOLITHIC WITH THE P.C.C. SIDEWALK WHEN THE DISTANCE BETWEEN THE SIDEWALK AND RIGHT-OF-WAY IS LESS THAN OR EQUAL TO 2' (0.6 m).
 THE LONGITUDINAL EXPANSION JOINT BETWEEN THE DRIVEWAY PAVEMENT AND SIDEWALK WILL NOT BE NEEDED UNLESS THE DISTANCE EXCEEDS 2' (0.6 m).
- 2. THE LONGITUDINAL CURB EXPANSION JOINT SHALL CONFORM TO SECTION 1051 OF THE STANDARD SPECS.
- 3. DRIVEWAYS THAT WILL MEET EXISTING OR PROPOSED CURB NEAR THE R.O.W. LINE SHALL HAVE THE CURB CONSTRUCTED FULL HEIGHT TO THE R.O.W. LINE.
- 4. DRIVEWAYS THAT WILL BE CONSTRUCTED WITH FULL HEIGHT CURBS AND NOT MEETING EXISTING OR PROPOSED CURBS NEAR THE R.O.W. LINE SHALL HAVE THE CURB SLOPED AS SHOWN ABOVE.
- 5. DEPRESSED CURB SHALL BE BUILT ONLY AT PRIVATE DRIVES WITH NO SIDEWALK RAMPS.
- 6. THE ENTRANCE GRADES WILL BE AS SHOWN ON THE STATION CROSS SECTIONS AND AS DIRECTED BY THE ENGINEER.
- 7. THE P.C. CONCRETE DRIVEWAY PAVEMENT SHALL BE CONSTRUCTED WITH SCORED GROOVES, AS SPECIFIED IN ARTICLE 424.06 OF THE STANDARD SPECIFICATIONS, AT APPROXIMATELY EVERY OTHER JOINT, EITHER IN THE EXISTING SIDEWALK OR THE PROPOSED SIDEWALK. THE PROPOSED P.C. CONCRETE SIDEWALK SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTING THE P.C. CONC. DRIVEWAY PAVEMENT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. THE COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED AS SHOWN AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LIN.FT. (METER) FOR COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED IN THE PLANS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9. THE P.C. CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS SHOWN ABOVE AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SO.FT. (m²) FOR P.C. CONCRETE SIDEWALK OF THE THICKNESS SPECIFIED IN THE PLANS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE EXTRA THICKNESS AS SHOWN ABOVE OR THE SEQUENCE OF CONSTRUCTION AS SPECIFIED.
- 10. BEFORE A CHANGE IN THE METHOD OF CONSTRUCTION IS ALLOWED. THE REQUEST SHALL BE SUBMITTED IN WRITING AND MUST BE APPROVED BY THE ENGINEER.
- 11. THE VARIABLE HEIGHT CURB ADJACENT TO THE P.C. CONCRETE DRIVEWAY PAVEMENT SHALL BE CONSTRUCTED MONOLITHIC WITH AND INCLUDED IN THE AREA OF THE P. C. CONCRETE DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED IN THE PLANS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. YD. (m 2) FOR P.C. CONCRETE DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED IN THE PLANS. INCLUDING THE MONOLITHIC CURBS AS SPECIFIED, THE SCORED GROOVES, THE LONGITUDINAL CURB EXPANSION JOINTS. AND THE ADDITIONAL THICKNESS REQUIRED ADJACENT TO THE DEPRESSED COMBINATION CONCRETE CURB AND GUTTER. AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SECTION COUNTY 501 COLES 26 21 CONTRACT NO. 70415

DETAIL OF DEPRESSING GUTTER GRADE AT **INLETS, CATCH BASINS AND MANHOLES**



GENERAL NOTES

- 1. THE TWO EXPANSION JOINTS SHALL BE PLACED AS SHOWN IN STANDARD 606001.
- 2. THE GUTTER GRADE SHALL BE DEPRESSED AT ALL INLETS, CATCH BASINS AND MANHOLES UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- 3. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS OF

SEC	NOIT	A-A

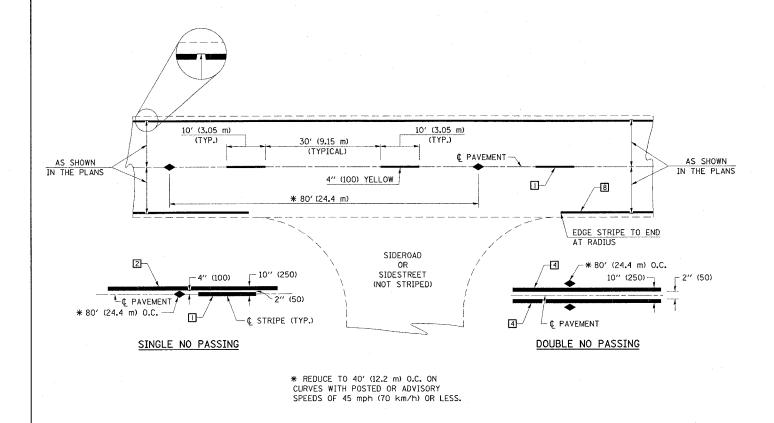
	NAME	DATE	REVISIONS	
DESIGNED	J.M.H.	11/87	NAME	DATE
CHECKED	F.M.S.	11/87	D.L.P.	10/96
CADD NO.	A-1	.31	K.A.G.	06/03

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

SECTION COUNTY 50I COLES 26 22

CONTRACT NO. 70415

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



TYPICAL PAVEMENT MARKING LEGEND 1 4" (100) SKIP-DASH (YELLOW) 2 4" (100) SOLID (YELLOW)

3 12" (300) DIAGONAL (YELLOW)

4 4" (100) DOUBLE YELLOW (NARROW)

5 RESERVED

6 RESERVED

7 4" (100) SKIP-DASH (WHITE)

8 4" (100) SOLID (WHITE)

9 12" (300) DIAGONAL (WHITE)

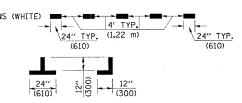
10 6" (150) CROSS WALK (WHITE)

11 24" (600) STOP BAR (WHITE)

12 8" (200) SOLID (WHITE)

13 4" (100) LANE LINE EXTENSIONS (WHITE)

14 4" (100) PARKING WHITE

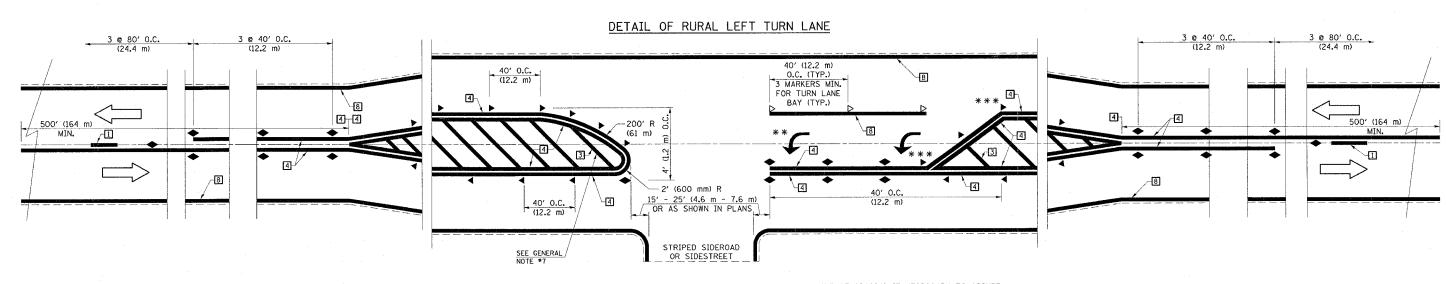


TRAFFIC

🟣 6" (150) CTS.

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ► ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER



SHEET 1 OF 3

NAME DATE REVISIONS DESIGNED J.M.H. 5/85 6/88 CHECKED FMS CTD 6/85 6/88 NAME DATE GEOMETRICS/K.A.G. 07/02 UNLESS OTHERWISE SHOWN. CADD NO. F-5.25 K.A.G.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

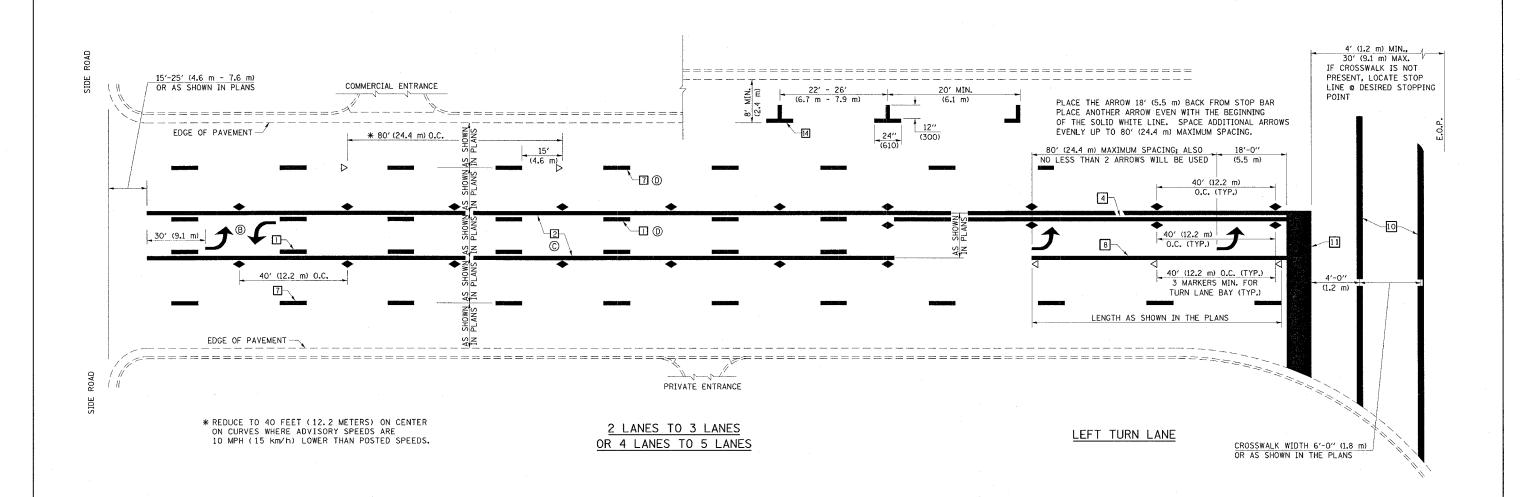
** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

F.A.P. SECTION COUNTY TOTAL SHEETS NO.

325 501 COLES 26 23

CONTRACT NO. 70415

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS



SHEET 2 OF 3

	NAME	DATE	REVISIONS	
DESIGNED	J.M.H.	5/85 6/88	NAME	DATE
CHECKED	FMS CTD	6/85 6/88	GEOMETRICS/K.A.G.	07/02
 CADD NO.	F-5	.25	K.A.G.	08/04

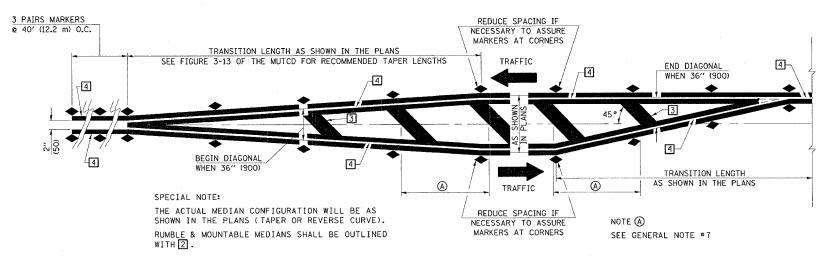
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

SECTION COUNTY COLES 26 24 325 50I

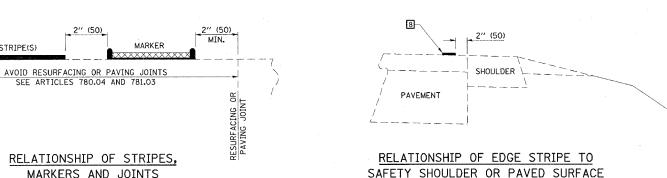
CONTRACT NO. 70415

TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS

STRIPE(S)



TYPICAL MEDIAN TRANSITIONS



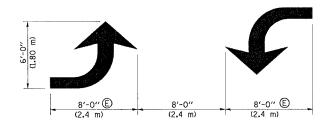
- THE SOLID YELLOW PAVEMENT MARKINGS 2 SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE
- ① THE SKIP-DASH PAVEMENT MARKINGS [] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.

SPECIAL NOTES:

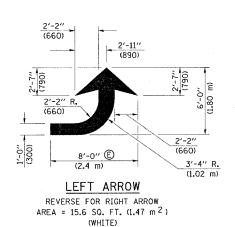
- TURN ARROW PAIRS SHALL BE PLACED AT 250'
 (75 m) INTERVALS AND SHALL BE EVENLY SPACED
 BETWEEN BOTH ENDS OF THE BIDIRECTIONAL
- E TURN ARROW SIZE DEPENDS ON THE LOCATION. RURAL LOCATION LARGE ARROW SIZE URBAN LOCATION SMALL ARROW SIZE

GENERAL NOTES

- 1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
- 2. SCALE: NONE
- 3. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
- 4. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
- 5. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
- 6. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
- 7. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING, <30 MPH USE 15' (<50 km/h USE 4.5 m) 30-45 MPH USE 20' (50-75 km/h USE 6.0 m) >45 MPH USE 30' (>75 km/h USE 9.0 m)



TYPICAL DOUBLE TURN ARROWS (WHITE)



SHEET 3 OF 3

	NAME	DATE	REVISIONS	
DESIGNED	J.M.H.	5/85 6/88	NAME	DATE
CHECKED	FMS CTD	6/85 6/88	GEOMETRICS/K.A.G.	07/02
CADD NO.	F-5	.25	K.A.G.	08/04

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

