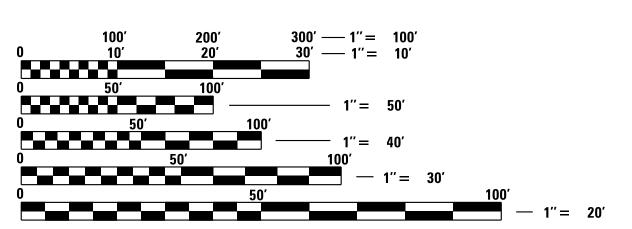
KANE COUNTY DIVISION OF TRANSPORTATION STATE OF ILLINOIS RANDALL ROAD ROUTE 529 IMPROVING ACCESS TO BUS SERVICE TRAFFIC & PEDESTRIAN SIGNAL IMPROVEMENTS

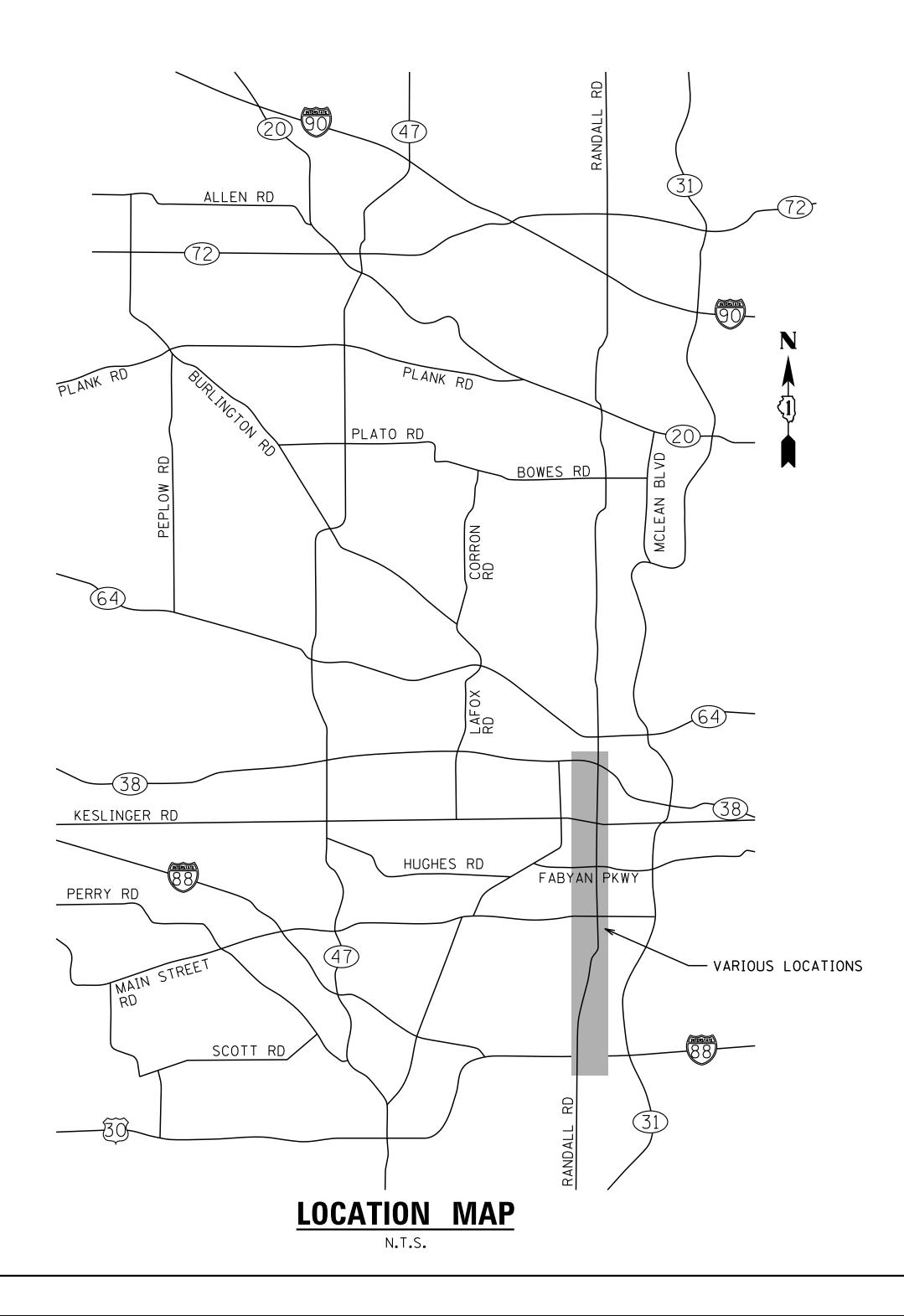
IDOT HIGHWAY STANDARDS

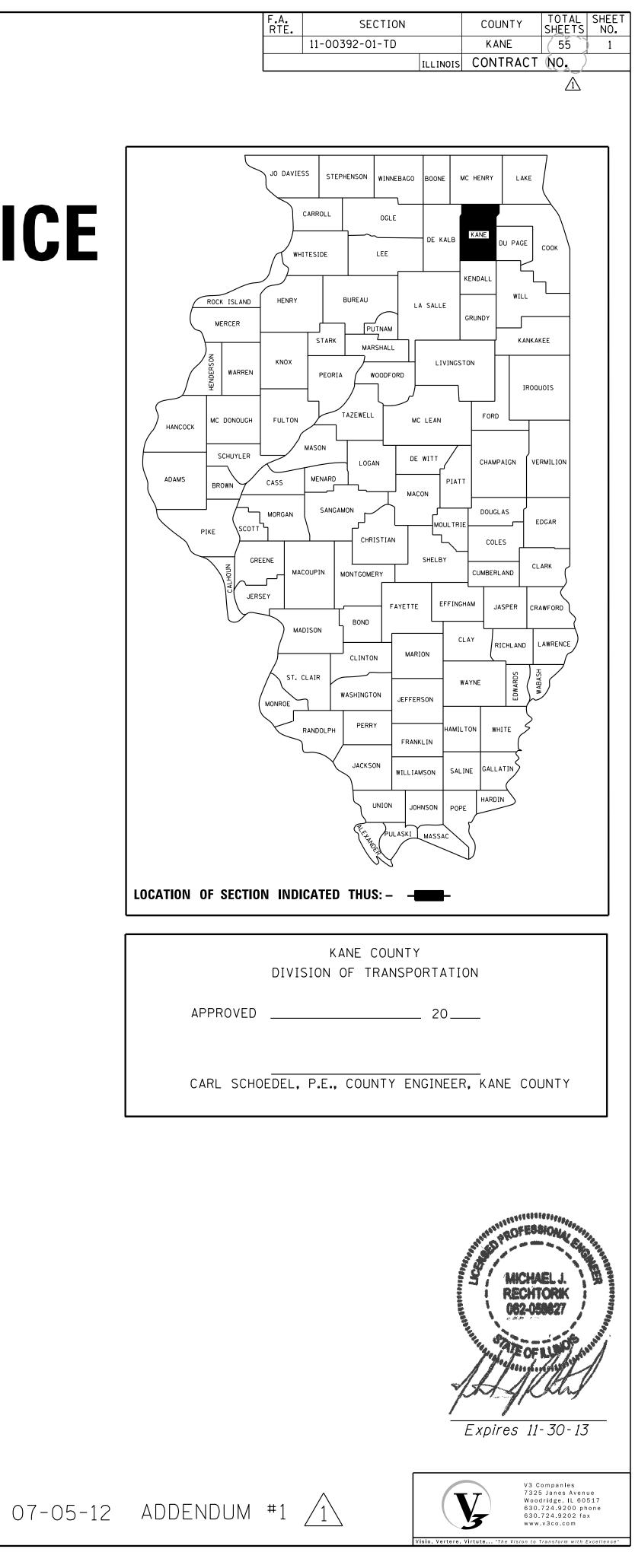
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
701006-03	OFF-RD OPERATIONS 2L, 2W, 15' TO 24' FROM EDGE OF PAVEMENT
701101-02	OFF-RD OPERATIONS, 15' TO 24' FROM EDGE OF PAVEMENT
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION DAY ONLY FOR SPEEDS > 45 MPH
701601-07	URBAN LANE CLOSURE, MULTILANE, IW OR 2W WITH NON TRANSVERSIBLE MEDIAN
701701-08	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-05	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
876001-02	PEDESTRIAN PUSH BUTTON POST
878001-09	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886006-01	TYPICAL LAYOUTS FOR DETECTOR LOOPS
	$\sum_{i=1}^{n}$



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 FINAL PLANS





	INDEX OF SHEETS		GENERAL NOTE	S
-	INDEA UI SIILLIS			
1	TITLE SHEET		1. THE CONTRACTOR IS T	
2	GENERAL NOTES AND INDEX OF SHEETS			ND SIDEWALK SIMULTANEOUSLY
3	SUMMARY OF QUANTITIES			N OF EITHER ITEM TO BE
4	SIGNAL PLAN - IL 38 AND MEIJER DRIVE		APPROVED BY THE ENGI DOT-TRAFFIC SECTION.	NEER OR KANE COUNTY
5	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS DESIGNATION DIAGRAM - IL 38 AND MEIJER DR		C DOT-TRAFFIC SECTION.)
6	SIGNAL PLAN - RANDALL ROAD AND BRICHER ROAD		2 CROSSWALKS TO BE 6	FT WIDE MINIMUM, 8 FT WIDE PREFERRED. \langle
7	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS			THE WINE WINNING WING THE WIDE THEFERRED.
•	DESIGNATION DIAGRAM - RANDALL ROAD AND B		3. FOR SIDEWALK AND BUS	S PAD INSTALLATION PLANS AND DETAILS,
8	SIGNAL PLAN - RANDALL ROAD AND FARGO BOULE			RED BY V3 COMPANIES TITLED
9	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS			29 IMPROVING ACCESS TO BUS
	DESIGNATION DIAGRAM - RANDALL ROAD AND F		SERVICE, BUS PAD AND	SIDEWALK IMPROVEMENTS.
10	SIGNAL PLAN - RANDALL ROAD AND CHRISTINA DR	IVE	ζ)
11	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS	SE	4. EXISTING PEDESTRIAN	signals and push buttons at randall \sim \gtrsim
	DESIGNATION DIAGRAM - RANDALL ROAD AND C	HRISTINA DRIVE	ROAD INTERSECTIONS W	ITH FARGO BOULEVARD, CHRISTINA LANE, 💦 🚽
12	SIGNAL PLAN - RANDALL ROAD AND GLENEAGLE DR	IVE	AND WILSON STREET WILL I	BE UPGRADED "BY OTHERS" TO LED \langle
13	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS	SE	COUNTDOWN PEDESTRIAN SI	GNAL HEADS AND PUSH BUTTONS.
	DESIGNATION DIAGRAM - RANDALL ROAD AND G	LENEAGLE DRIVE		
14	SIGNAL PLAN - RANDALL ROAD AND MILL STREET			
15	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS	SE		
	DESIGNATION DIAGRAM - RANDALL ROAD AND M			
16	SIGNAL PLAN - RANDALL ROAD AND MCKEE STREET			
17	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS			
10	DESIGNATION DIAGRAM - RANDALL ROAD AND M			
18	SIGNAL PLAN - RANDALL ROAD AND WILSON STREE			
19	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS			
20	DESIGNATION DIAGRAM - RANDALL ROAD AND W	ILSUN SIREEI		
20	SIGNAL PLAN - RANDALL ROAD AND MAIN STREET			
21	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS DESIGNATION DIAGRAM - RANDALL ROAD AND M			
22	SIGNAL PLAN - RANDALL ROAD AND DOGWOOD DRIV			
	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS			
23	DESIGNATION DIAGRAM - RANDALL ROAD AND D			
24	SIGNAL PLAN - RANDALL ROAD AND OAK STREET			
25	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS	SF		
20	DESIGNATION DIAGRAM - RANDALL ROAD AND O			
26	SIGNAL PLAN - RANDALL ROAD AND ICE CREAM DR			
27	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS			
_	DESIGNATION DIAGRAM - RANDALL ROAD AND I			
28	SIGNAL PLAN - RANDALL ROAD AND SULLIVAN ROA			
29	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHAS	SE		
	DESIGNATION DIAGRAM - RANDALL ROAD AND S	ULLIVAN ROAD		
30-36	JDOT DISTRICT 1 TRAFFIC SIGNAL DETAILS			
37-55	IDOT HIGHWAY STANDARDS			
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	V3 Companies	DESIGNED - MJR	REVISED - 07-05-12	
	7325 Janes Avenue Woodridge, IL 60517	DRAWN - DRP	ADDENDUM #1	KANE COUNTY
	630.724.9200 phone 630.724.9202 fax	CHECKED - MJR	REVISED -	DIVISION OF TRANSPORTATI
	www.v3co.com	DATE -	REVISED -	

NOTES

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SCALE: NTS

PERMIT NOTES AND CONTACTS

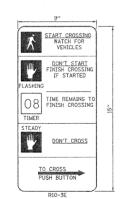
THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS FOR WORK DONE ON COUNTY, STATE, CITY, AND VILLAGE JURISDICTION. SIDEWALK CONSTRUCTION NOT TAKING PLACE WITHIN COUNTY JURISDICTION ARE SHOWN IN THE TABLE BELOW. THE APPROPRIATE PARTY SHOULD BE CONTACTED TO COORDINATE PERMITTING.

Deed News		Chaot Number
Road Name	Jurisdiction	Sheet Number
JUDICIAL CENTER	KANE COUNTY	4
ROUTE 38	IDOT	5
BRICHER ROAD - NORTH		
SIDE	ST. CHARLES	7
BRICHER ROAD - SOUTH		
SIDE	GENEVA	7
CHRISTINA DRIVE	GENEVA	9
FARGO	GENEVA	10
GLENEAGLE	GENEVA	12
MILL STREET	BATAVIA	11
MCKEE STREET	BATAVIA	13
WILSON STREET	BATAVIA	14
RANDALL AT DOGWOOD		
ST.	NORTH AURORA	15
RANDALL AT OAK ST.	NORTH AURORA	16
RANDALL AT ICE CREAM		
DR.	NORTH AURORA	17
RANDALL AT SULLIVAN	AURORA	18

Permit Contacts	Phone	Contact Person
KANE COUNTY	630-584-1170	KURT NIKA
IDOT	847-705-4131	TOM GALLENBACH
ST. CHARLES	630-443-3709	JAMES BERNAHL
GENEVA	630-232-7494	
BATAVIA	630-454-2000	NOEL BASQUIN
NORTH AURORA	630-897-2662	MIKE GLOCK

	F.A. RTE.	SECTI	ON	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF SHEETS				KANE	55	02
		II	LLINOIS			

	115127	TOTAL	IL 38	Randall Road @ Bricher Rd	Randall Road @ Fargo Blvd	Randall Road @ Christina Ln	Randall Road @ Gleneagle Dr	Randall Road @ Mill St	Randall Road @ McKee St	Randall Road @ Wilson St	Randall Road @ Main St	Randall Road @ Dogwood St	Randall Road @ Oak St	Randall Road @ Ice Cream Dr	Randall Road @ Sullivan Dr
	UNIT	TOTAL 5	@ Meijer Dr	© Bricher Ku	0	0	0	0	0	0	0	0	0	5	0
10701961 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"	SQ YD		0	0	0	0	0	0	0	0	0	0	0	78	0
4003100 MEDIAN REMOVAL	SQ FT	78	0	0	0	0	0	0	0	0	0	0	0	33	0
0618800 CONCRETE MEDIAN, TYPE SB	SQ FT	33	1	1	1	1	1	1	1	1	1	1	1	1	1
7100100 MOBILIZATION	L SUM	13 13	1	1	1	1	1	1	1	1	1	1	1	11	11
0102630 TRAFFIC CONTROL AND PROTECTION, STANDARD 701601				1	1	1	1	1	1	1	1	1	1	1	11
0102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	13	1	1	1	1	1	1	1	1	1	1	1	1	1
0102640 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	13			0	0	48	36	0	0	0	0	0	0	0
8000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	84	0	0	0	0	32	28	28	14	14	0	0	0	0
8000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	159	0	43		532	613	643	716	677	307	0	0	0	0
18000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4,487	170	628	201	532	609	641	708	680	303	0	0	0	0
8000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	4,727	229	818	201		170	165	190	125	81	0	0	0	0
8000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	952	0	125	58	38	0	0	0	0	0	13	0	28	0
8009000 MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	41	0 .	0	0	0	0	0	0	0	0	309	669	677	219
8009012 MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	1,874	0	0	0	0	0	0	0	0	0	305	670	665	219
8009006 MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1,859	0	0	0	0		0	0	0	0	28	32	172	0
8009024 MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	232	0	0	0	0	0		508	551	215	78	263	468	0
8300100 PAVEMENT MARKING REMOVAL	SQ FT	3,727	0	246	123	266	564	446	308	67	38	57	87	31	56
1028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	602	27	26	43	64	14	55		0	0	0	31	48	0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	113	3	26	0	0	4	0	1	1	1	1	1	1	1
5000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	13	1	1	1	1	1	1	1	1 1 050	492	639	1,225	1.327	778
7301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	12,998	497	1,216	520	1,080	1,430	1,408	1,326	1,060	492	615	1.189	1,279	754
7301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	12,575	485	1,195	496	1,050	1,382	1,360	1,278	1,024	59	0	0	0	0
7301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 7C	FOOT	59	0	0	0	0	0	0	0	0		57	109	79	70
7301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, SIGNAL, NO 6 1C	FOOT	861	30	105	35	64	72	46	36	67	91	3/	3	2	4
7500600 TRAFFIC SIGNAL POST, 10 FT	EACH	41	1	5	5	3	3	3	3	3	3	0	0	0	0
7501000 TRAFFIC SIGNAL POST, 14 FT	EACH	1	0	1	0	0	0	0	0	0	0	0	1	3	0
7501200 TRAFFIC SIGNAL POST, 16 FT	EACH	9	1	1	0	0	1	0	1	0	1		16	20	16
77800100 CONCRETE FOUNDATION, TYPE A	FOOT	204	8	28	20	12	16	12	16	12	16	12	9	4	4
77900200 DRILL EXISTING HANDHOLE	EACH	118	2	7	5	3	28	23	8	12	9		6	8	4
18102717 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	72	2	8	2	4	8	8	8	6	4	4	<u>_</u>	0	0
18600100 DETECTOR LOOP, TYPE I	FOOT	7,473	0	0	0	. 0	2,358	1,818	2,013	775	395	0	114	6	0
19500100 RELOCATE EXISTING SIGNAL HEAD	EACH	16	1	4	0	0	2	0	2	0	0	0	1		0
19500200 RELOCATE EXISTING FOR FILAD	EACH	6	0	0	5	1	0	0	0	0	0	0	0	0	0
19500200 RELOCATE EXISTING PEDESTRIAN SIGNAL READ	EACH	4	0	0	3	1	0	0	0	0	0	0	0	0	
19500400 MODIFY EXISTING CONTROLLER	EACH	13	1	1	1	1	1	1	1	11	1	11	1	1	1
	FOOT	372	22	118	0	0	31	0	24	0	0	0	52	125	0
19502350 REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	EACH	9	1	110	0	1	1	0	1	0	1	1	1	1	0
39502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	+		<u> </u>		2	1							+
39502376 REBUILD EXISTING HANDHOLE			1	3	0	0	1	0	1	0	0	0	1	3	0
29502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	10	1	3	2	4	8	8	8	6	4	4	6	8	4
(8760200 ACCESSIBLE PEDESTRIAN SIGNALS	EACH	71	2		2	4	8	8	8	6	4	4	6	8	4
(8760250 VIBROTACTILE FEATURE	EACH	71	2	7		0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
20013798 CONSTRUCTION LAYOUT	LSUM	1	0.077	0.077	0.077	0.077	0.077	0.0/7	0.07	0	0	1	1	1	1
20033044 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL I	EACH	5	1 1	0	0	U U	0	v		1	1	0	0	0	0



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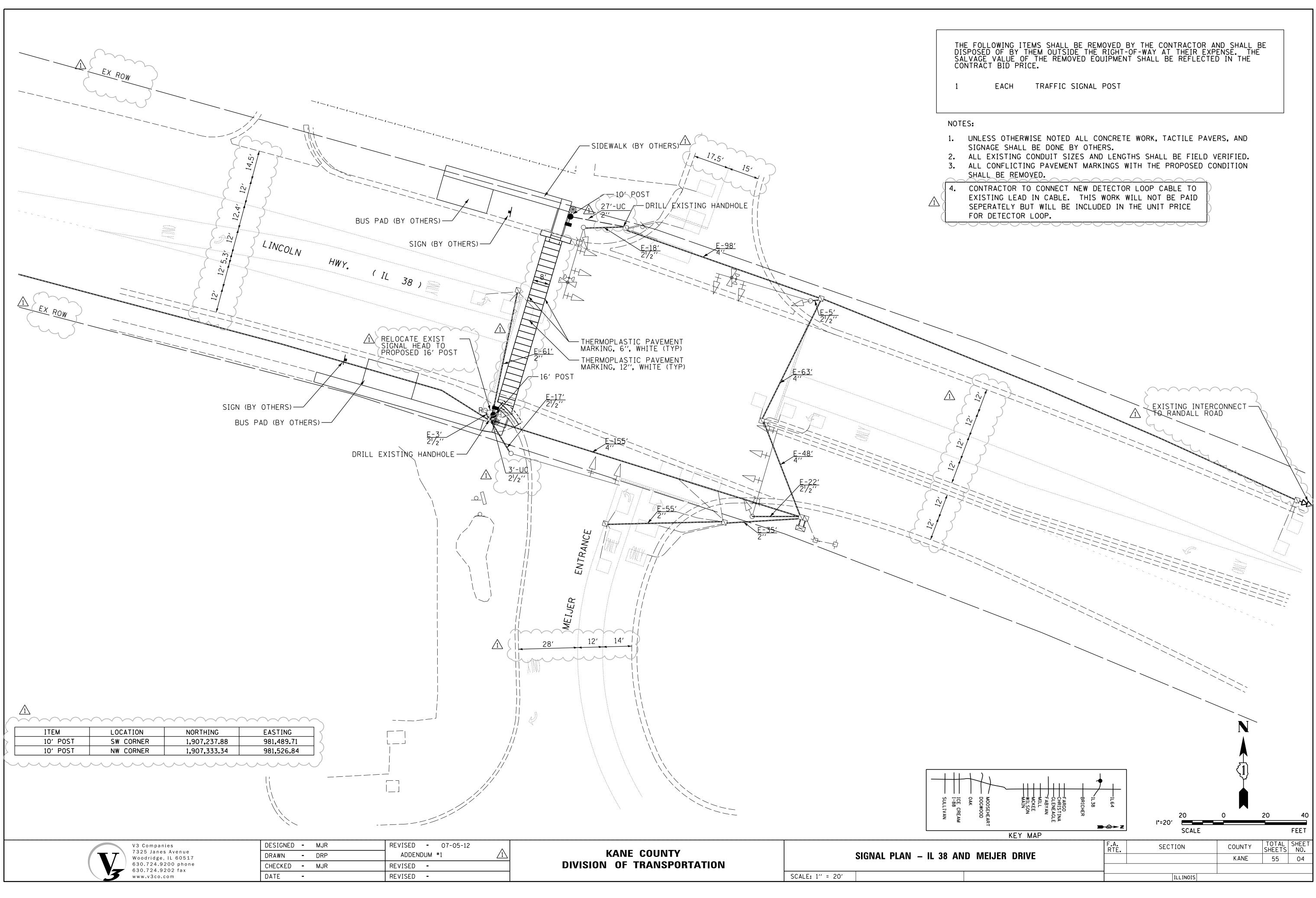
RIO-3E THE CONTRACTOR SHALL SUPPLY AND MOUNT GNE SIGN AT EACH EXISTING PROESTRIAN PUSH-BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF PEDESTRIAN SIGNAL HEAD PAY ITEM.

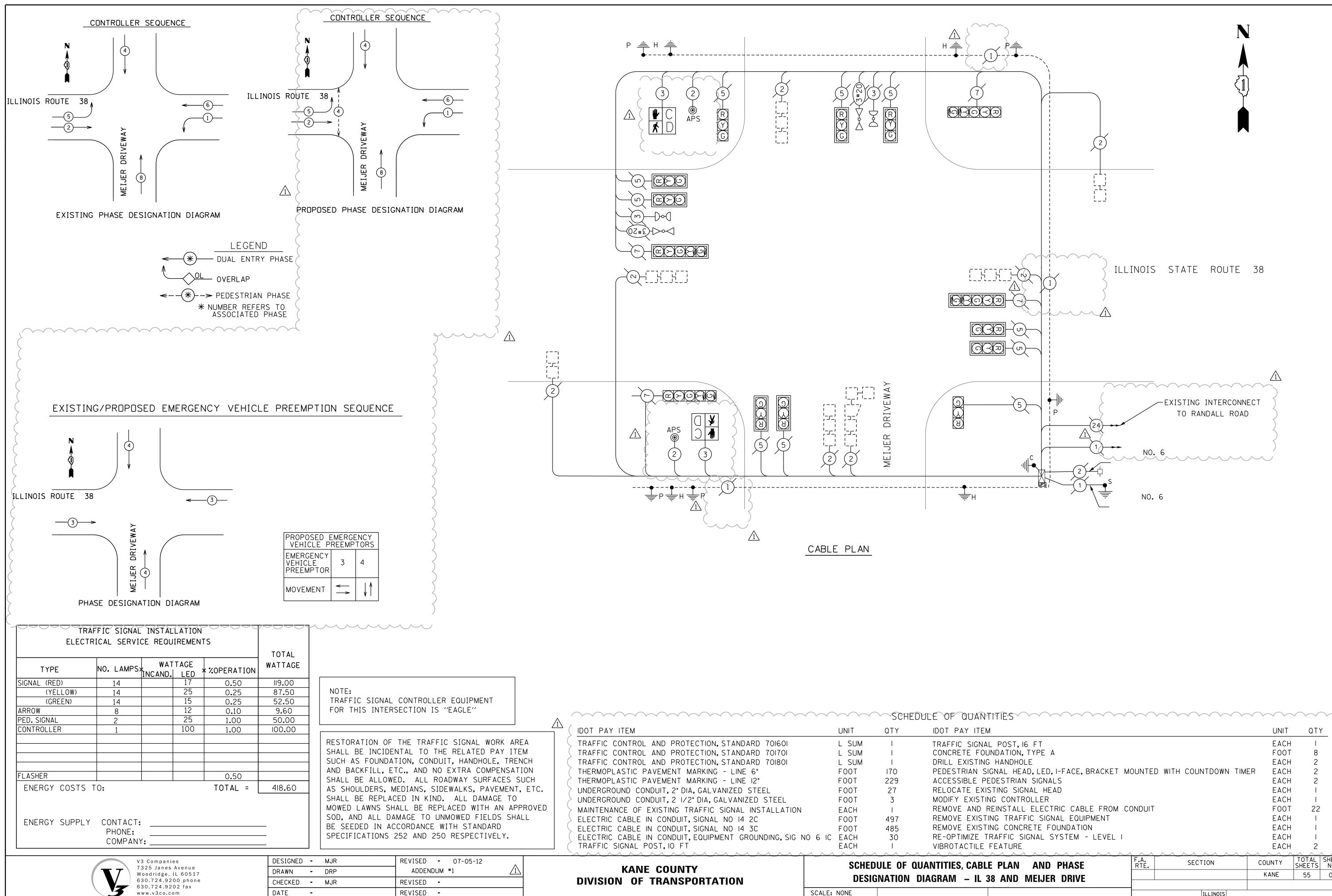
NITEROFOTION	NUMBER OF R10-3E (ARROW LEFT)	NUMBER OF R10-3E (ARROW RIGHT)	TOTAL
INTERSECTION	SIGNS REQUIRED	SIGNS REQUIRED	
RANDALL RD & IL-38	1	1	2
RANDALL RD & BRICHER	4	4	8
RANDALL RD & FARGO	4	4	8
RANDALL RD & CHRISTINA	4	4	8
RANDALL RD & GLENEAGLE	4	4	8
RANDALL RD & MILL	4	4	8
RANDALL RD & MCKEE	4	4	8
RANDALL RD & WILSON	4	4	8
RANDALL RD & MAIN	2	2	4
RANDALL RD & DOGWOOD	2	2	4
RANDALL RD & OAK	4	4	8
RANDALL RD & ICE CREAM	4	4	8
RANDALL RD & SULLIVAN	2	2	4
		TOTAL	. 86

S. Santa South Shart S.	nd part part parts and parts of the	a papa papa para	Salvar salvar salvar				
	V3 Companies	DESIGNED - MJR	REVISED • 07-05-12		CUBANAAD		
	7325 Janes Avenue Woodridge, IL 60517	DRAWN = DRP	ADDENDUM •1	KANE COUNTY	SUMMARY OF QUA		
	630.724.9200 phone	CHECKED = MJR	REVISED .	DIVISION OF TRANSPORTATION			
	630.724.9202 fax www.v3co.com	DATE -	REVISED .		SCALE: NTS		

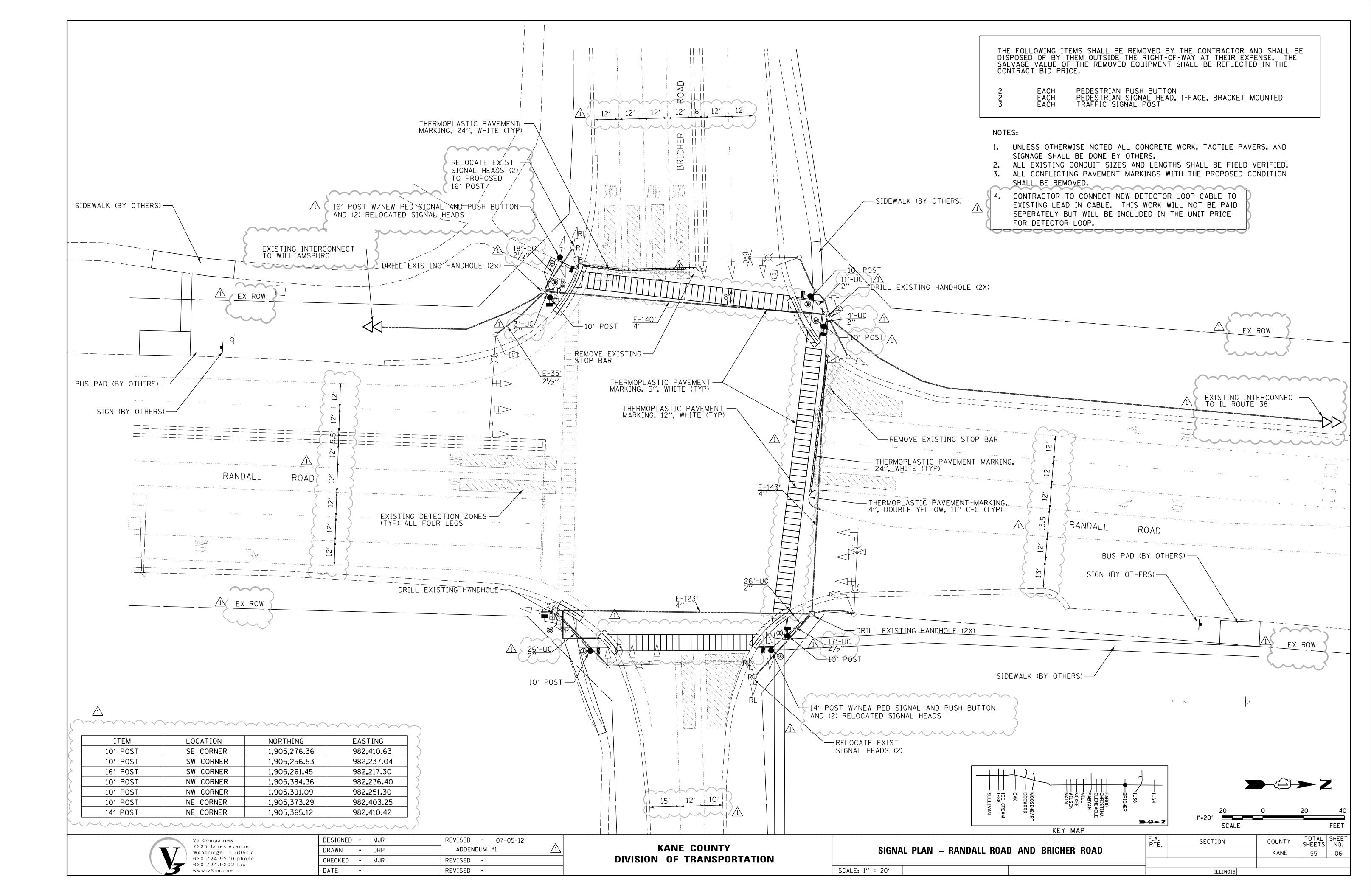
R10-3E SIGN SCHEDULE

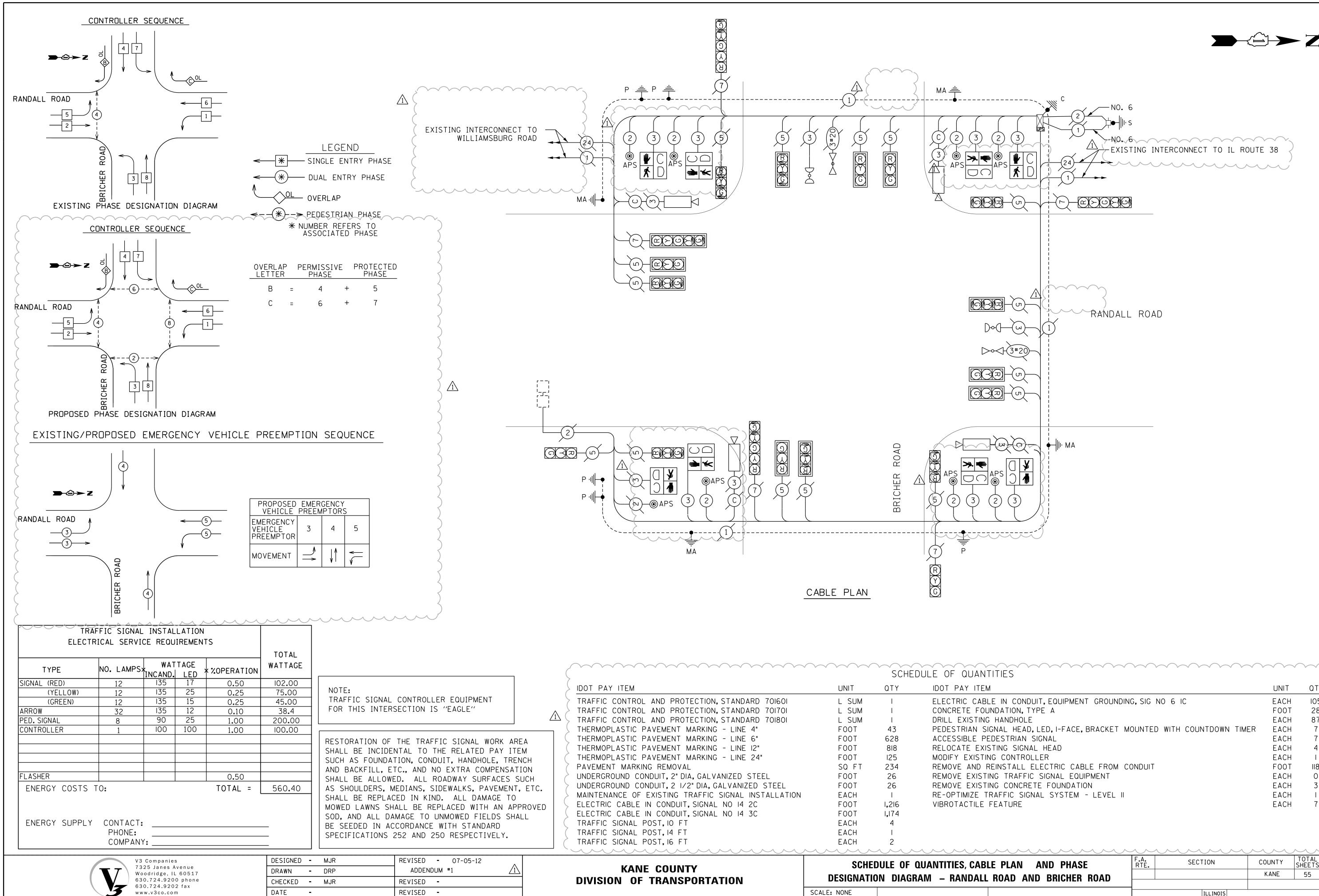
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	F.A. RTÉ.	SECTION	COUNTY	SHEETS	SHEET NO.
UANTITIES			KANE	55	03
		ILLINOIS			



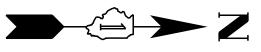


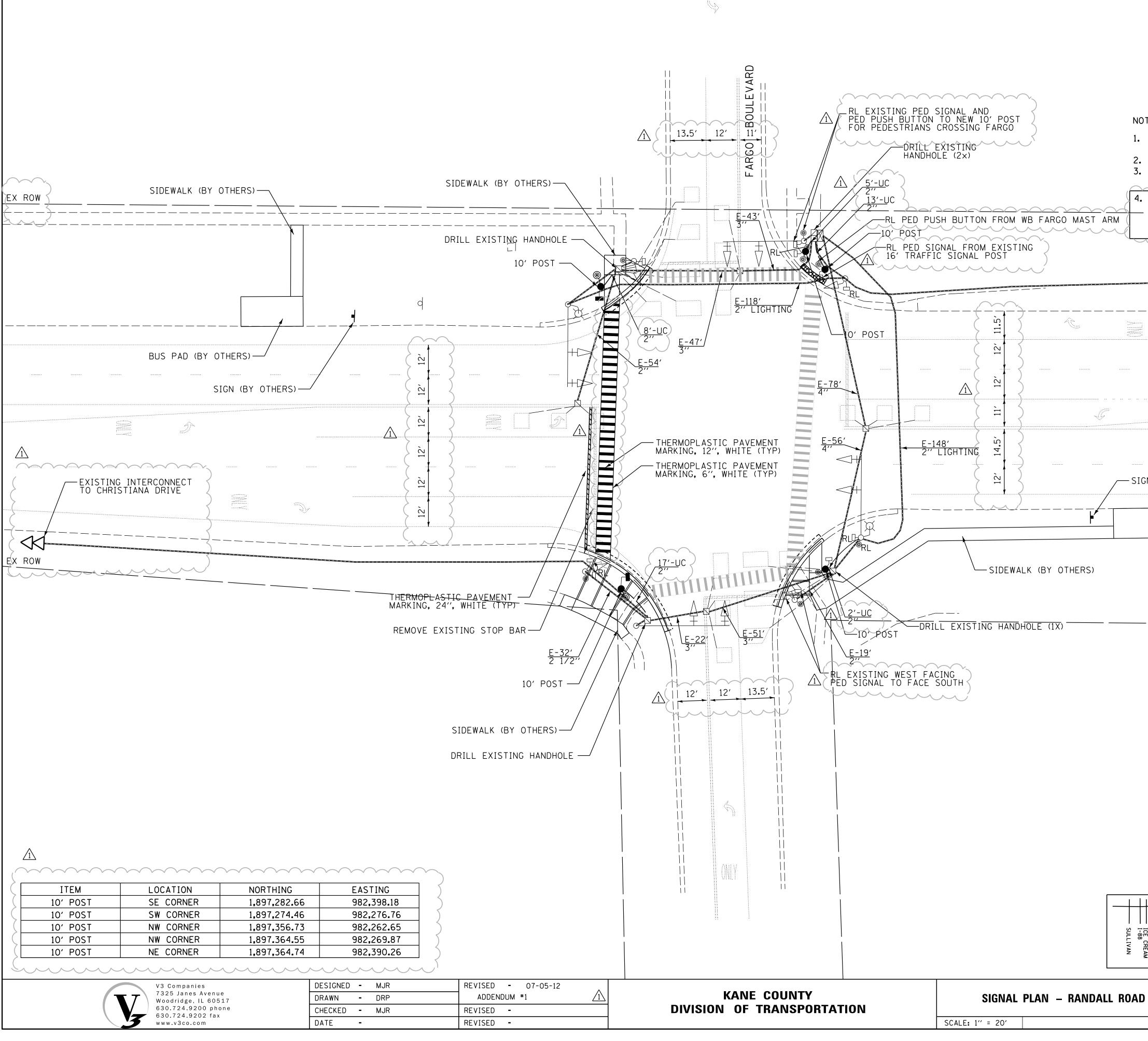
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EAGLE" SCHEDULE OF QUANTIFIES SIGNAL WORK AREA IDOT PAY ITEM RELATED PAY ITEM UNIT QTY IDOT PAY ITEM TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM I TRAFFIC SIGNAL POST, 16 FT TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 L SUM I CONCRETE FOUNDATION, TYPE A TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE EXTRA COMPENSATION TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE EXTRA COMPENSATION THERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT 170 PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTED WALKS, PAVEMENT, ETC. ALL DAMAGE TO UNDERGROUND CONDUIT, 2' DIA, GALVANIZED STEEL FOOT 27 RELOCATE EXISTING SIGNAL HEAD UNDERGROUND CONDUIT, 2 I/2" DIA, GALVANIZED STEEL FOOT 3 MODIFY EXISTING CONTROLLER MODIFY EXISTING CONTROLLER	FOOT	22
EAGLE" SCHEDULE OF QUANTITIES SIGNAL WORK AREA IDOT PAY ITEM RELATED PAY ITEM IDOT PAY ITEM INAMPHOLE, TRENCH TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM INAMPHOLE, TRENCH ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM INAMPHOLE, TRENCH ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM INAMPHOLE, TRENCH ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM INAMPHOLE, TRENCH ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM INAMPHOLE, TRENCH ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I INAMPHOLE, TRENCH ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE INAMPHOLE, TRENCH ITHERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT ITO PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTED INAY SURFACES SUCH ITHERMOPLASTIC PAVEMENT MARKING - LINE 12" FOOT 229 ACCESSIBLE PEDESTRIAN SIGNALS	EACH	Iζ
EAGLE" SCHEDULE OF QUANTITIES IDOT PAY ITEM UNIT QTY IDOT PAY ITEM SIGNAL WORK AREA TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM I TRAFFIC SIGNAL POST, 16 FT RELATED PAY ITEM TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 L SUM I CONCRETE FOUNDATION, TYPE A ITAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I CONCRETE FOUNDATION, TYPE A ITRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE ITRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE ITRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE ITRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE ITRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE ITRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE ITHERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT ITO PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTED	EACH	
EAGLE" SCHEDULE OF QUANTITIES IDOT PAY ITEM UNIT OT PAY ITEM SIGNAL WORK AREA IDOT PAY ITEM IDOT PAY ITEM RELATED PAY ITEM TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM I TRAFFIC SIGNAL POST, 16 FT TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 L SUM I CONCRETE FOUNDATION, TYPE A TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 L SUM I DRILL EXISTING HANDHOLE	EACH	$\frac{1}{2}$
EAGLE" SCHEDULE OF QUANTITIES IDOT PAY ITEM UNIT OT PAY ITEM SIGNAL WORK AREA RELATED PAY ITEM IDOT PAY ITEM IDOT PAY ITEM TRAFFIC CONTROL AND PROTECTION, STANDARD 70/60/ TRAFFIC CONTROL AND PROTECTION, STANDARD 70/70/ L SUM I TRAFFIC SIGNAL POST, 16 FT CONCRETE FOUNDATION, TYPE A		$\frac{2}{2}$
EAGLE" SCHEDULE OF QUANTITIES IDOT PAY ITEM IDOT PAY ITEM IDOT PAY ITEM TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 L SUM I TRAFFIC SIGNAL POST, 16 FT	FOOT EACH	° <
EAGLE"	EACH	
EAGLE"	UNIT	QTY



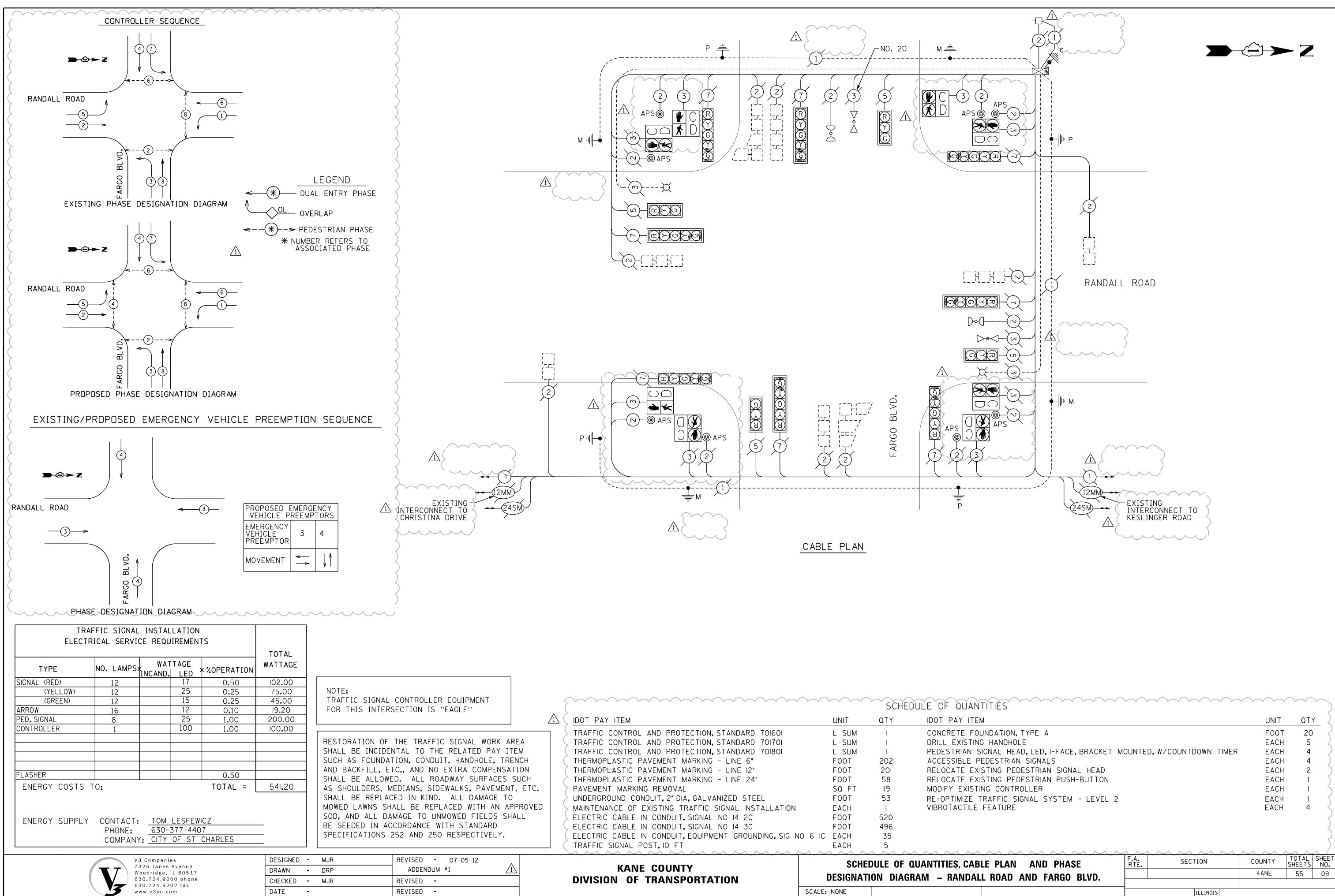


					DULE OF QUANTITIES		
		DOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
EQUIPMENT		TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM		ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO 6 IC	EACH	105
EAGLE''		TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	CONCRETE FOUNDATION, TYPE A	FOOT	28
		> TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	DRILL EXISTING HANDHOLE	EACH	87
		THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	43	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	7
SIGNAL WORK		THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	628	ACCESSIBLE PEDESTRIAN SIGNAL	EACH	7
RELATED PAY		THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	818	RELOCATE EXISTING SIGNAL HEAD	EACH	4
, HANDHOLE, T		THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	125	MODIFY EXISTING CONTROLLER	EACH	I
XTRA COMPENS		PAVEMENT MARKING REMOVAL	SQ FT	234	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	118
WAY SURFACES		UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	26	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	0
VALKS, PAVEME		UNDERGROUND CONDUIT, 2 1/2" DIA, GALVANIZED STEEL	FOOT	26	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
ALL DAMAGE		MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II	EACH	I
CED WITH AN		ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	1,216	VIBROTACTILE FEATURE	EACH	7
OWED FIELDS S		ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	I , 174			
TH STANDARD		TRAFFIC SIGNAL POST, 10 FT	EACH	4			
RESPECTIVELY.	(TRAFFIC SIGNAL POST, 14 FT	EACH	I			
	(TRAFFIC SIGNAL POST, 16 FT	EACH	2			
		· · · · · · · · · · · · · · · · · · ·		\sim		\sim	
07-05-12		KANE COUNTY	SCHE	DULE OF (QUANTITIES, CABLE PLAN AND PHASE	COUNTY S	TOTAL SHE SHEETS NO
1		DIVISION OF TRANSPORTATION				KANE	55 0
			CALE: NONE		ILLINOIS		

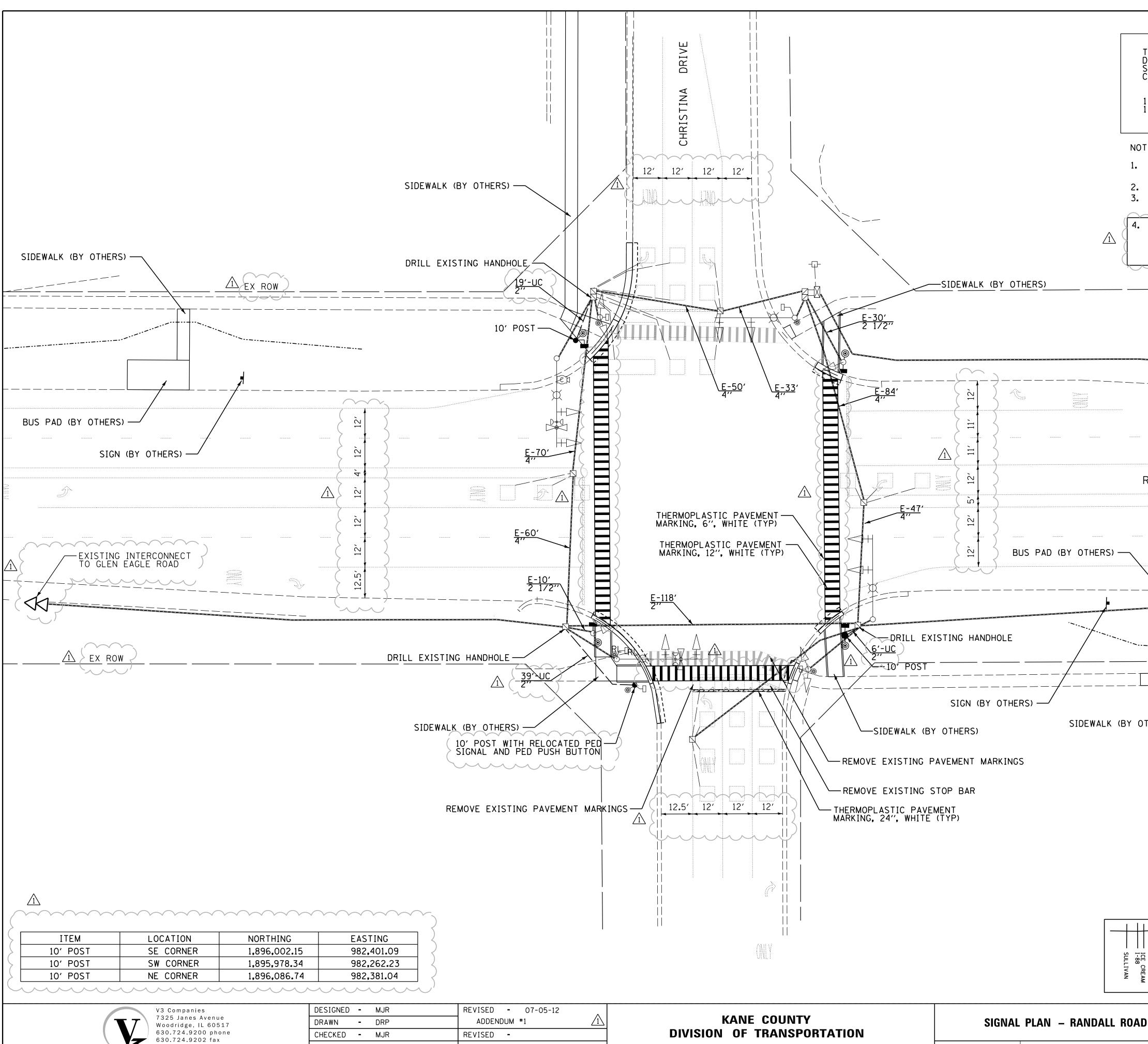




TES:				
UNLESS OTHERWISE NOTED ALL CO SIGNAGE SHALL BE DONE BY OTHE ALL EXISTING CONDUIT SIZES AND ALL CONFLICTING PAVEMENT MARK SHALL BE REMOVED.	RS. D LENGTHS	SHALL BE FIELD	VERIFIED.	
CONTRACTOR TO CONNECT NEW DE <u>EXISTING LEAD</u> IN CABLE. THIS SEPERATELY BUT WILL BE INCLUD FOR DETECTOR LOOP.	WORK WILL	NOT BE PAID)	
		EXISTING INTER TO KESLINGER R	CONNECT	
			L.	
RANDALL ROAD				
N (BY OTHERS)				
BUS PAD (BY OTHERS)				
				EX ROW
FARGO FARGO CHRISTINA GLENEAGLE FABYAN MILL MCKEE MOOSEHEART DOGWOOD OAK	-IL 64	20 I"=20'	0	20 40
KEY MAP	F.A. RTE.	SCALE SECTION	COUNTY	FEET TOTAL SHEET SHEETS NO.
		ILLINOIS	KANE	55 08



EQUIPMENT 'EAGLE''			SCHE	DULE OF QUANTITIES		$\langle \rangle$
	, CIDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	ζ
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM		CONCRETE FOUNDATION, TYPE A	FOOT	20 <
SIGNAL WORK AREA	STRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	DRILL EXISTING HANDHOLE	EACH	5 2
RELATED PAY ITEM	(TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED, W/COUNTDOWN TIME	R EACH	4)
T, HANDHOLE, TRENCH	(THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	202	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4)
EXTRA COMPENSATION	(THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	201	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2)
DWAY SURFACES SUCH	C THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	58	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	IΣ
WALKS, PAVEMENT, ETC.	PAVEMENT MARKING REMOVAL	SQ FT	119	MODIFY EXISTING CONTROLLER	EACH	- I S
ALL DAMAGE TO	> UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	53	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 2	EACH	1 5
ACED WITH AN APPROVED	> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	VIBROTACTILE FEATURE	EACH	4 <
NOWED FIELDS SHALL	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	520			\langle
TH STANDARD	🤇 ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	496			2
RESPECTIVELY.	(ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO) 6 IC EACH	35)
	(TRAFFIC SIGNAL POST, 10 FT	EACH	5			
07-05-12		осис 100		QUANTITIES, CABLE PLAN AND PHASE F.A. RTE. SECTION	COUNTY	TOTAL SHEE SHEETS NO.
*1	KANE COUNTY				KANE	55 09
	DIVISION OF TRANSPORTATION	DESIGNAT	ION DIAG	GRAM – RANDALL ROAD AND FARGO BLVD.	KANL	55 09
		SCALE: NONE		ILLINOIS		



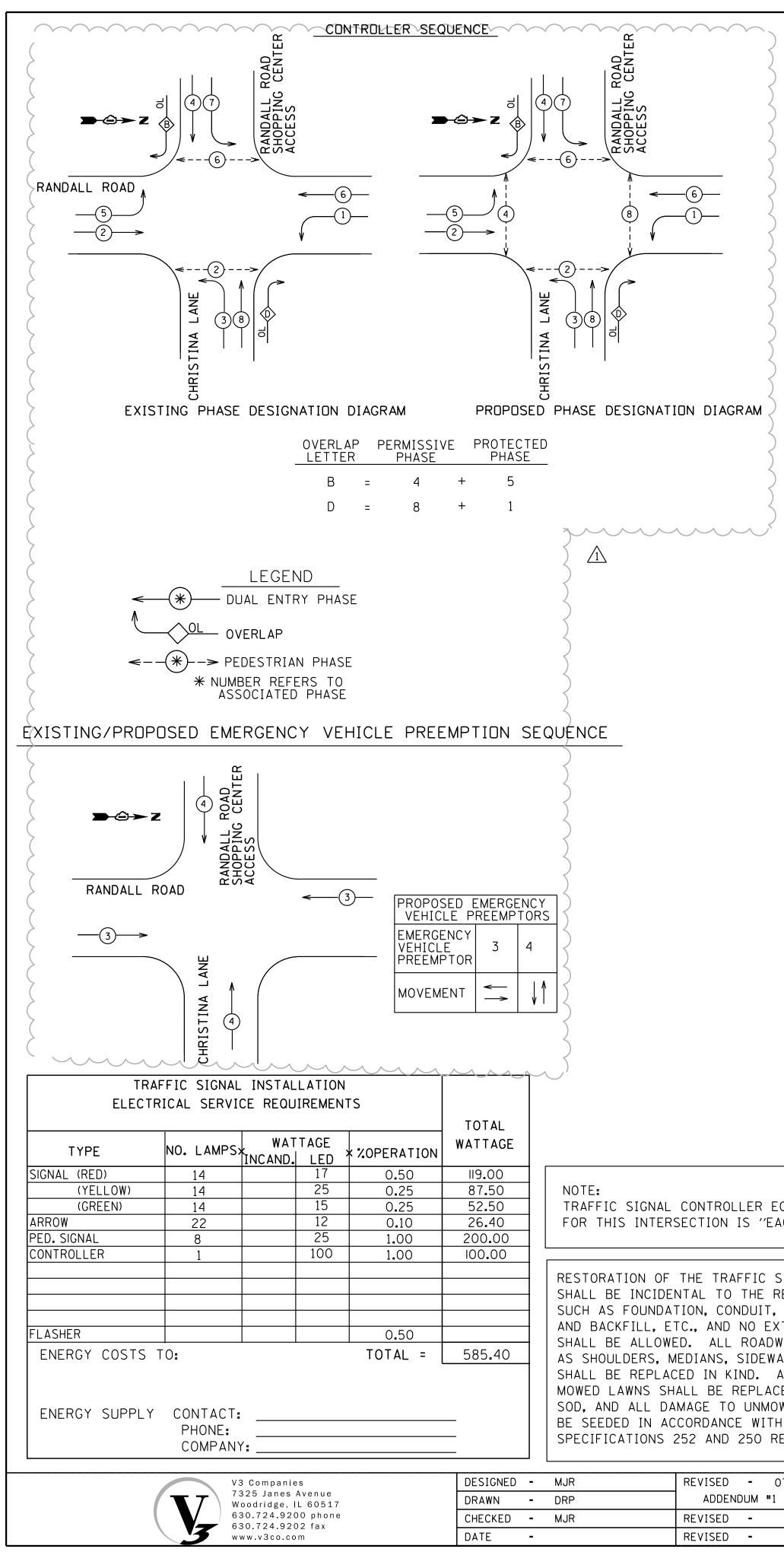
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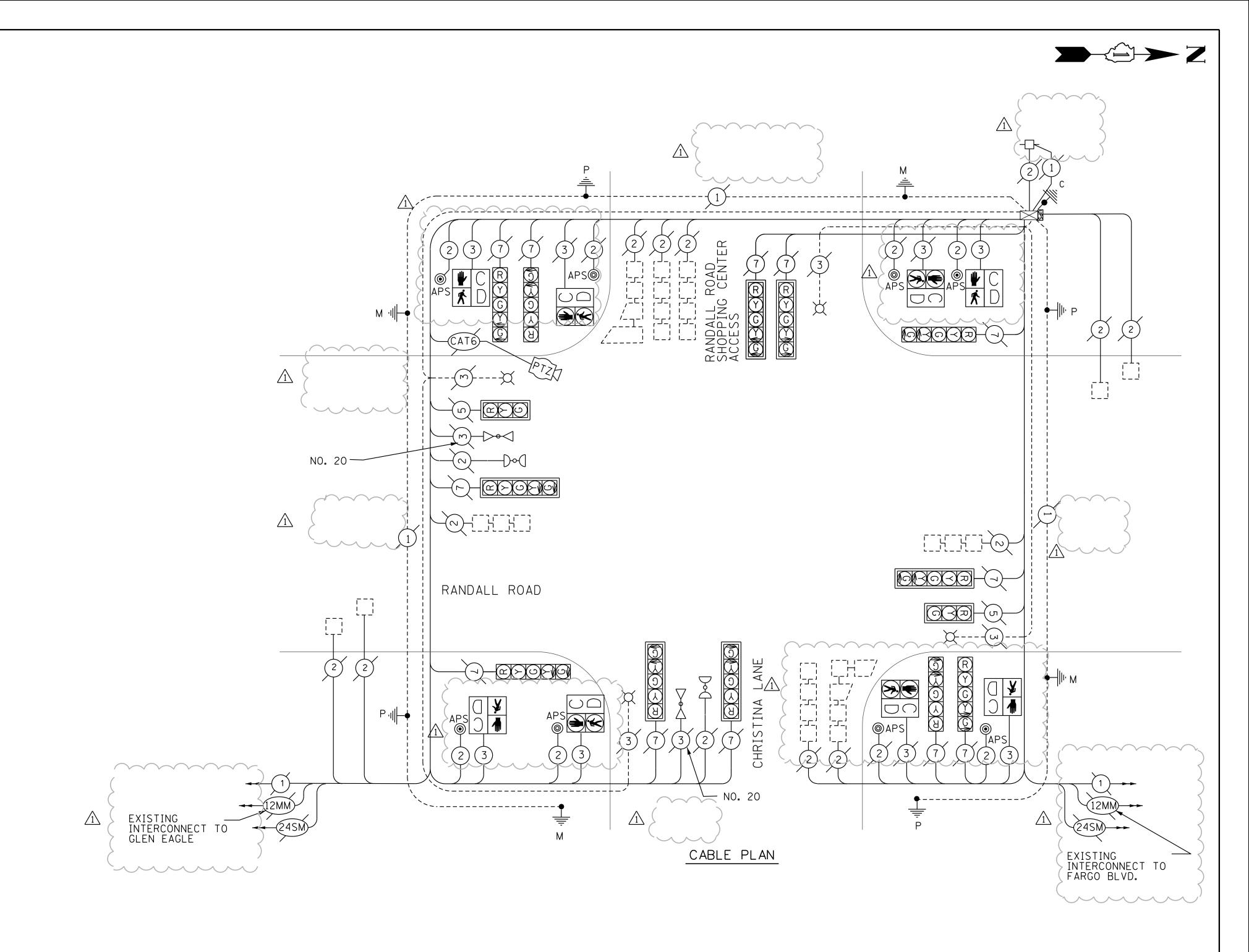
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DIVISION	OF	TRANSPORTATION

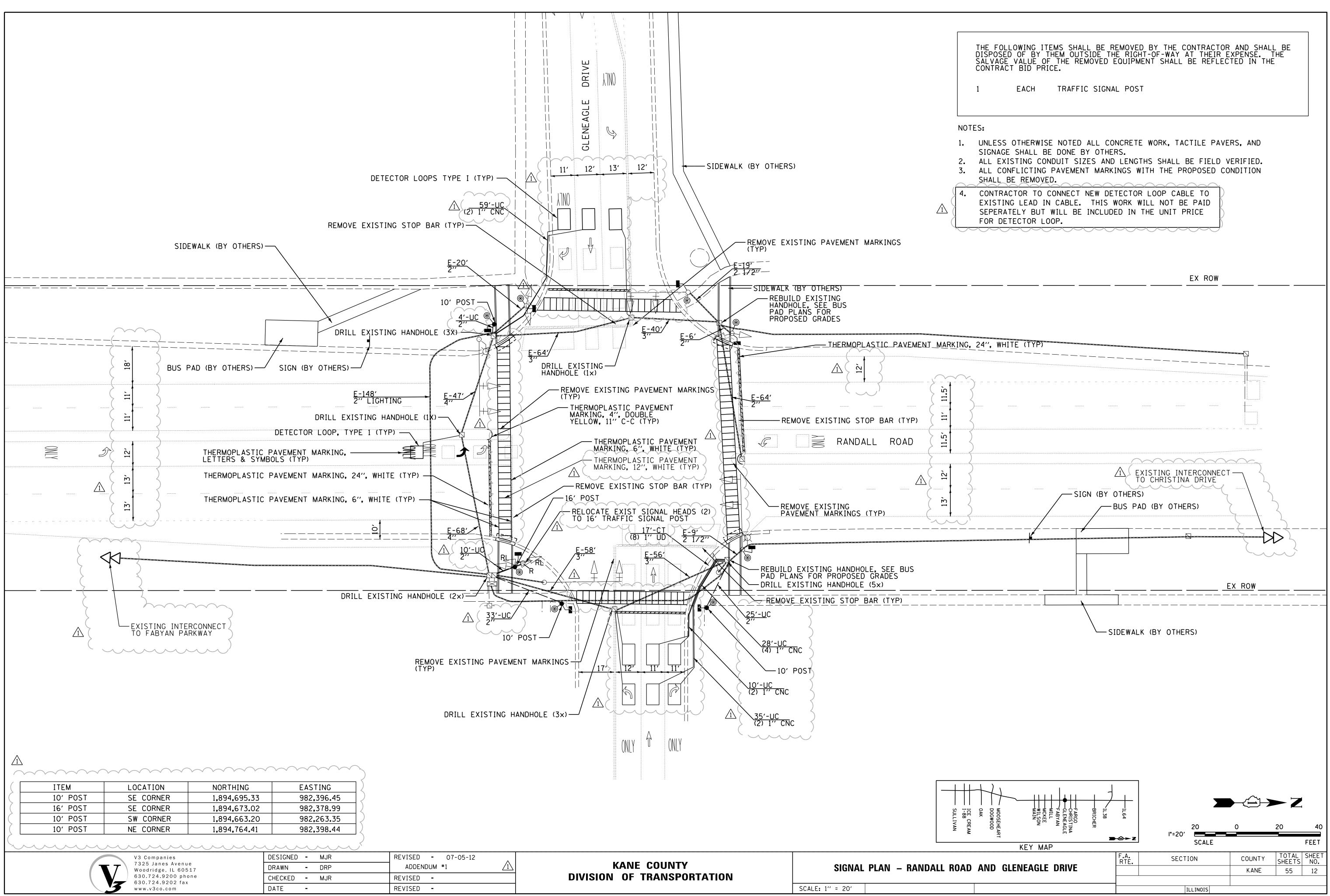
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1 1	EACH EACH	PEDESTRIAN PEDESTRIAN		1-FACE, BRAG	CKET MOUNTED	
SIG ALL ALL	NAGE SHALL E EXISTING CO	BE DONE BY O DNDUIT SIZES PAVEMENT M	THERS. AND LENGTHS	SHALL BE FI	PAVERS, AND ELD VERIFIED. ED CONDITION	
CON EXI SEF	ITRACTOR TO STING LEAD I	CONNECT NEW N CABLE. TH WILL BE INC	IS WORK WILL	NOT BE PAI	K	
					<u></u>	
				·	— — — — — — — — — — — — — — — — — — —	
RAND	ALL ROAD	<u></u>				
			EXIS	TING INTERCO ARGO BLVD		
	···-··-		<u>ROW</u>		<u></u>	
I						
THERS) —					
OAK	MAIN	FARGO 		20 I"=20'		20 40
) AN	KEY M		►	SECTION	LE COUNT KANE	FEET Y TOTAL SHEE SHEETS NO. 55 10
				ILLINOIS	s	

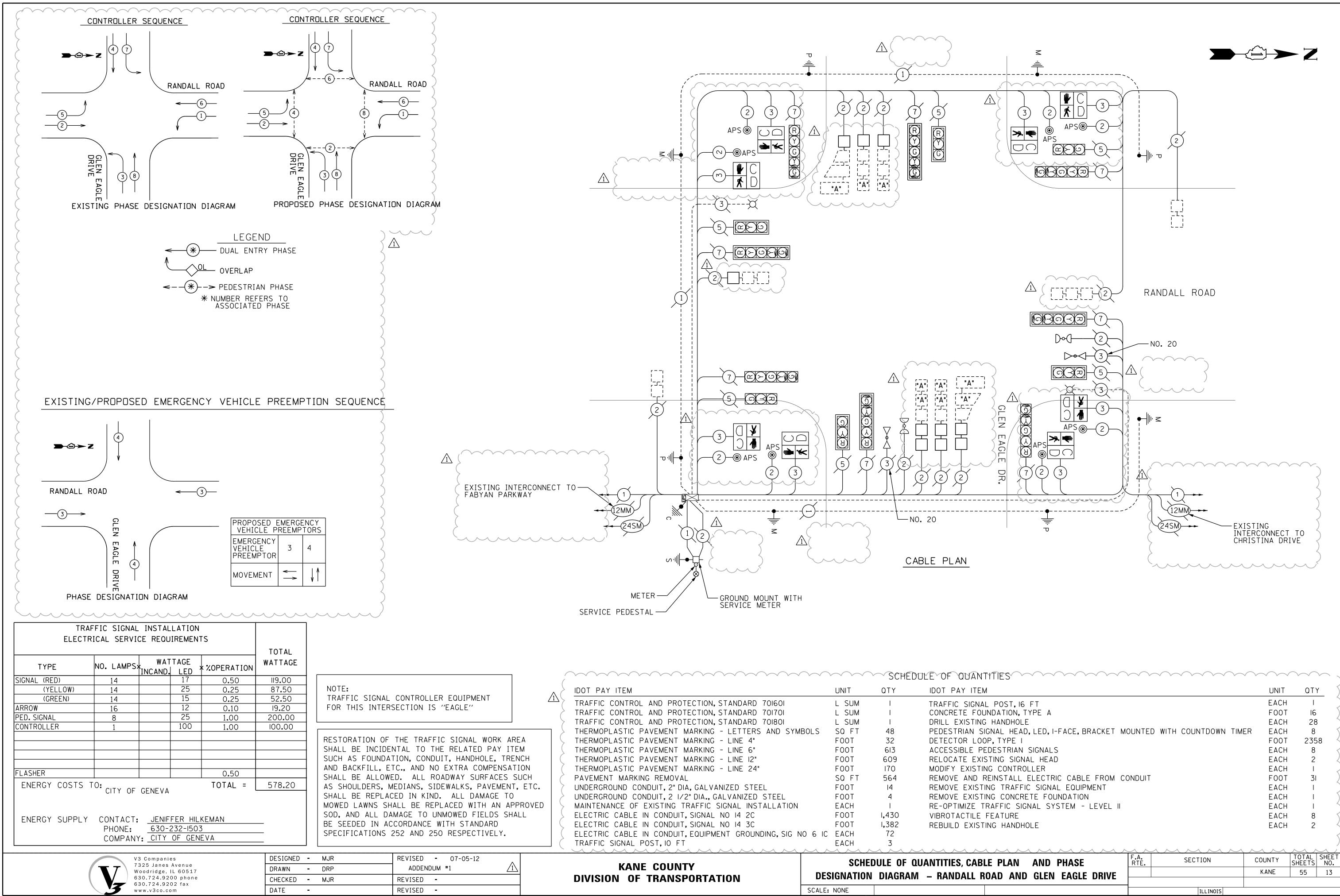




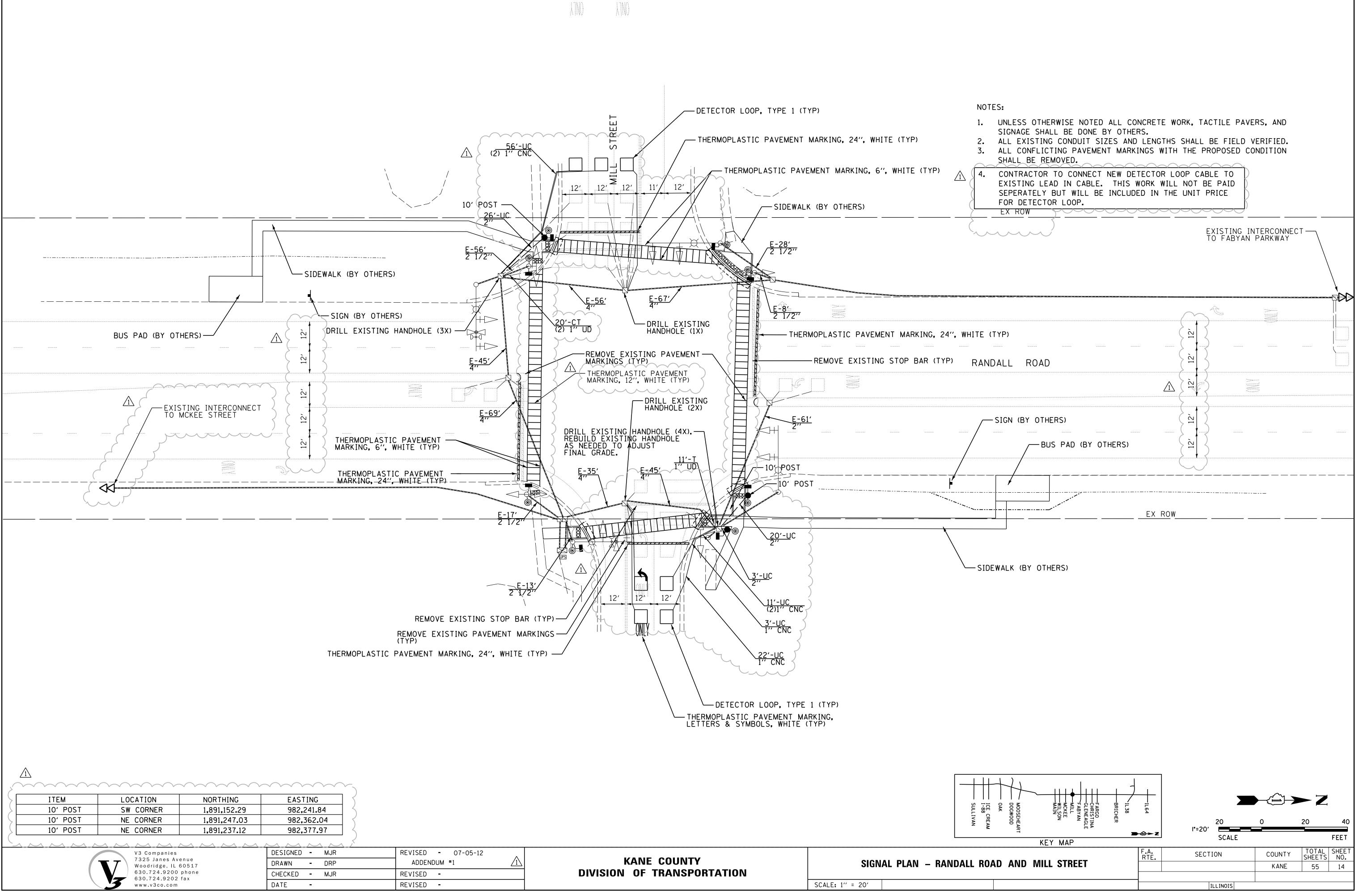
EQUIPMENT EAGLE''		\langle		SCHE	EDULE OF QUANTITIES		
	(IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
		(TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	I	CONCRETE FOUNDATION, TYPE A	FOOT	12
SIGNAL WORK A	REA	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	DRILL EXISTING HANDHOLE	EACH	3
RELATED PAY I		TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	5
HANDHOLE, TR		THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	530	ACCESSIBLE PEDESTRIAN SIGNAL	EACH	5
KTRA COMPENSA	TION	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	527	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	
VALKS, PAVEMENT, ETC.		> THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	38	RELOCATE EXISTING PEDESTRIAN PUSH BUTTON	EACH	I
		> PAVEMENT MARKING REMOVAL	SQ FT	257	MODIFY EXISTING CONTROLLER	EACH	
		UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	64	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	
ED WITH AN AF	PPROVED	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II	EACH	
WED FIELDS SH	HALL	SELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	1,080	VIBROTACTILE FEATURE	EACH	5
h standard	(ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	I , 050			
RESPECTIVELY.		(ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO	D 6 IC EACH	64			
	(TRAFFIC SIGNAL POST, 10 FT	EACH	3			
07-05-12			<u> </u>		OUNTITIES CADLE DIANI AND DUAGE F.A. SECTION	COUNTY	TOTAL SHE
1 /	Λ	KANE COUNTY	SCHI	EDULE OF	QUANTITIES, CABLE PLANAND PHASEF.A. RTE.SECTION	S	HEETS NC
<u>/_</u>		DIVISION OF TRANSPORTATION	DESIGNATIO	ON DIAGR	RAM – RANDALL ROAD AND CHRISTINA LANE	KANE	55 11
			SCALE: NONE		ILLINOIS		

L ROAD AND CHRISTINA LANE			KANE	55	11	
		ILLINOIS				

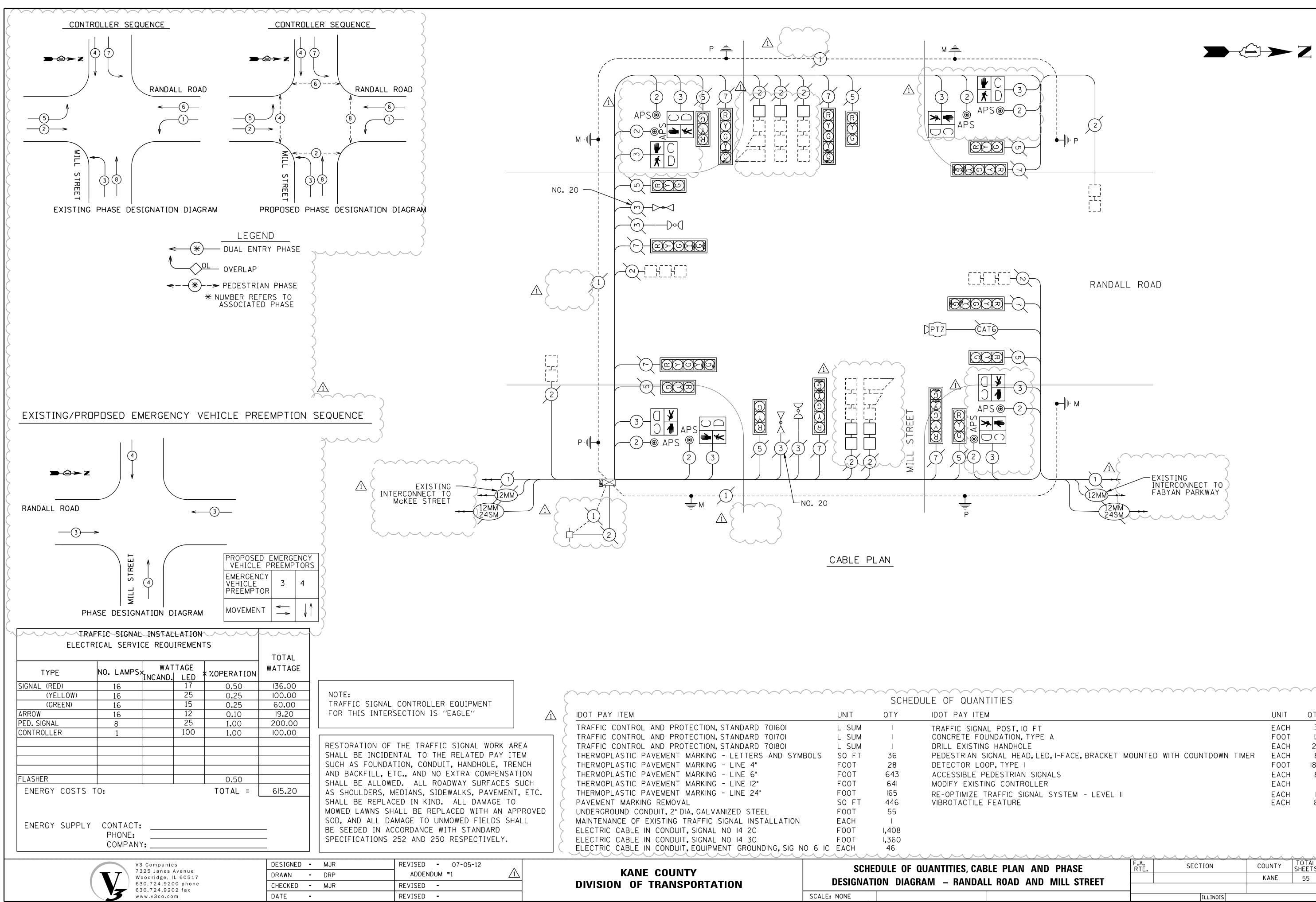




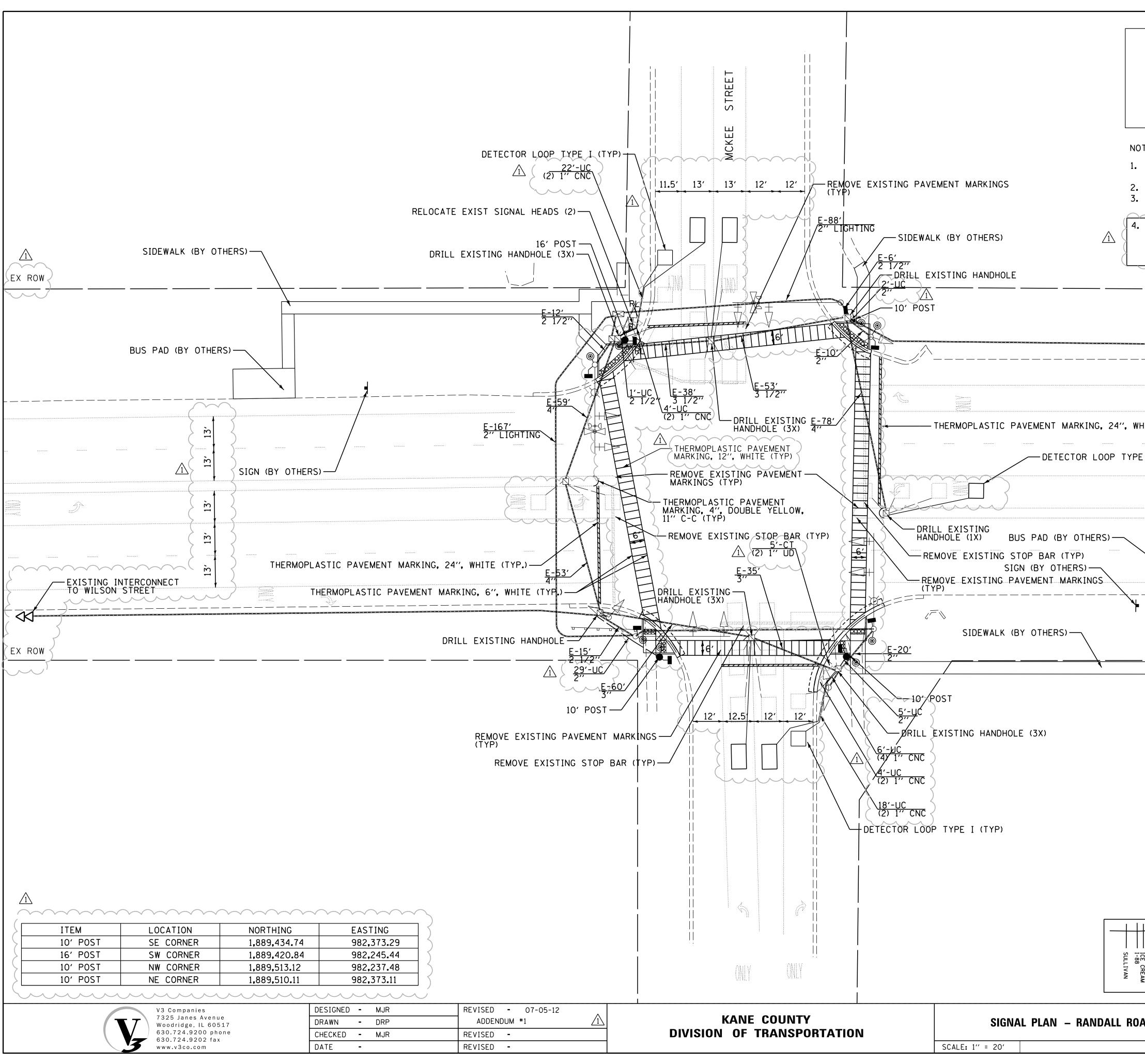
	IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
EQUIPMENT	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM		TRAFFIC SIGNAL POST, 16 FT	EACH	
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	CONCRETE FOUNDATION, TYPE A	FOOT	16
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	DRILL EXISTING HANDHOLE	EACH	28
	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYME	BOLS SQ FT	48	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
SIGNAL WORK AREA	S THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	32	DETECTOR LOOP, TYPE I	FOOT	2358
RELATED PAY ITEM	STHERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	613	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
, HANDHOLE, TRENCH	(THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	609	RELOCATE EXISTING SIGNAL HEAD	EACH	2
XTRA COMPENSATION	(THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	170	MODIFY EXISTING CONTROLLER	EACH	I
WAY SURFACES SUCH	PAVEMENT MARKING REMOVAL	SQ FT	564	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	31
VALKS, PAVEMENT, ETC.	UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	14	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	
ALL DAMAGE TO	UNDERGROUND CONDUIT, 2 1/2" DIA., GALVANIZED STEEL	FOOT	4	REMOVE EXISTING CONCRETE FOUNDATION	EACH	I
CED WITH AN APPROVED	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II	EACH	I
OWED FIELDS SHALL	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	I , 430	VIBROTACTILE FEATURE	EACH	8
TH STANDARD	C ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	I,382	REBUILD EXISTING HANDHOLE	EACH	2
RESPECTIVELY.	(ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG N	0 6 IC EACH	72			
	(TRAFFIC SIGNAL POST, 10 FT	EACH	3			
07.05.10	· · · · · · · · · · · · · · · · · · ·				~~~	TOTAL SHE
07-05-12	KANE COUNTY	SCHE	EDULE OF	QUANTITIES, CABLE PLAN AND PHASE	COUNTY S	TOTAL SHE SHEETS NO
		ΠΕΩΙΩΝΙΛΤΙΩΙ		M – RANDALL ROAD AND GLEN EAGLE DRIVE	KANE	55 1
	DIVISION OF TRANSPORTATION	DESIGNATIO		IN - NANDALL NOAD AND GLLN LAGLE DRIVE		
		SCALE: NONE		ILLINOIS		



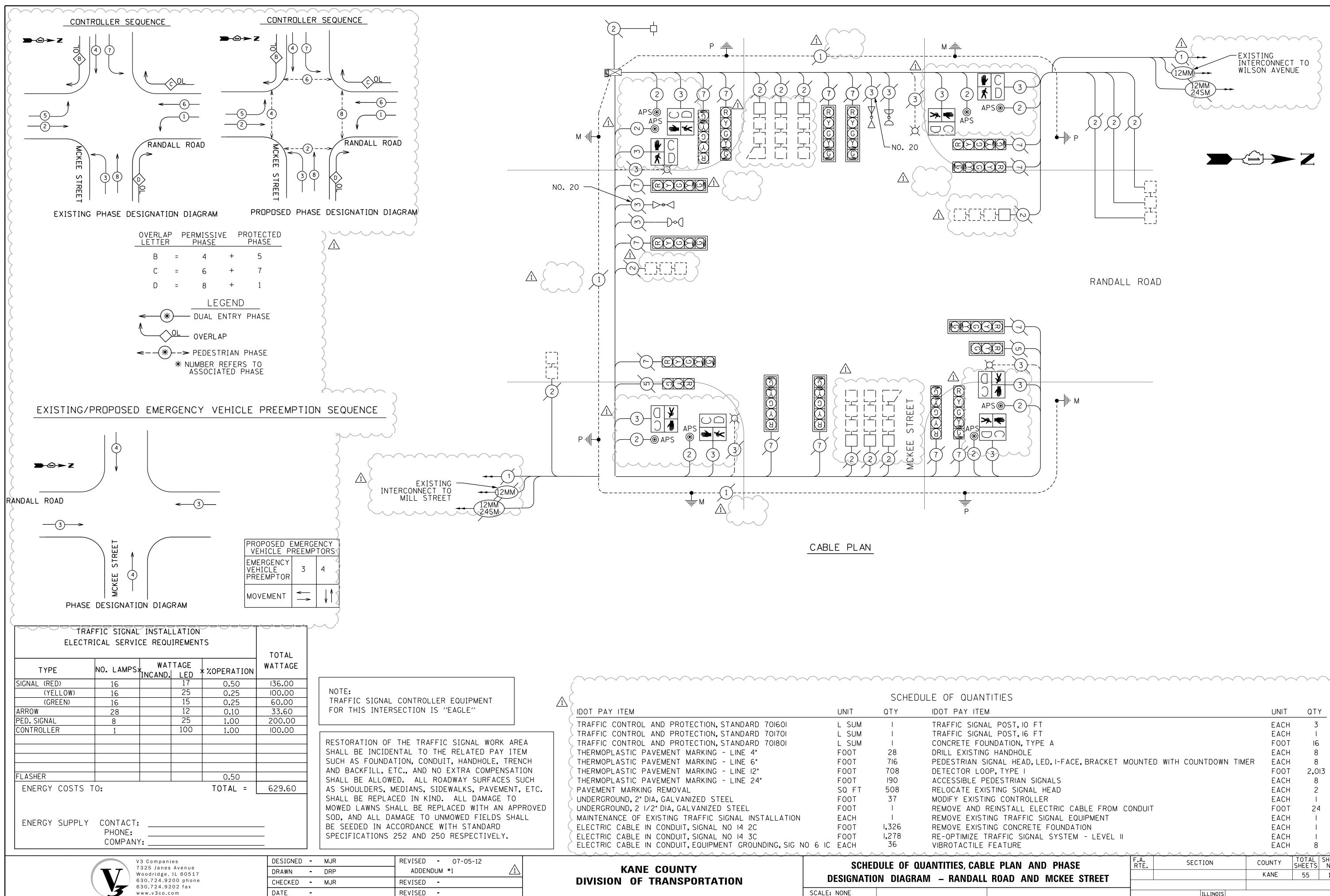
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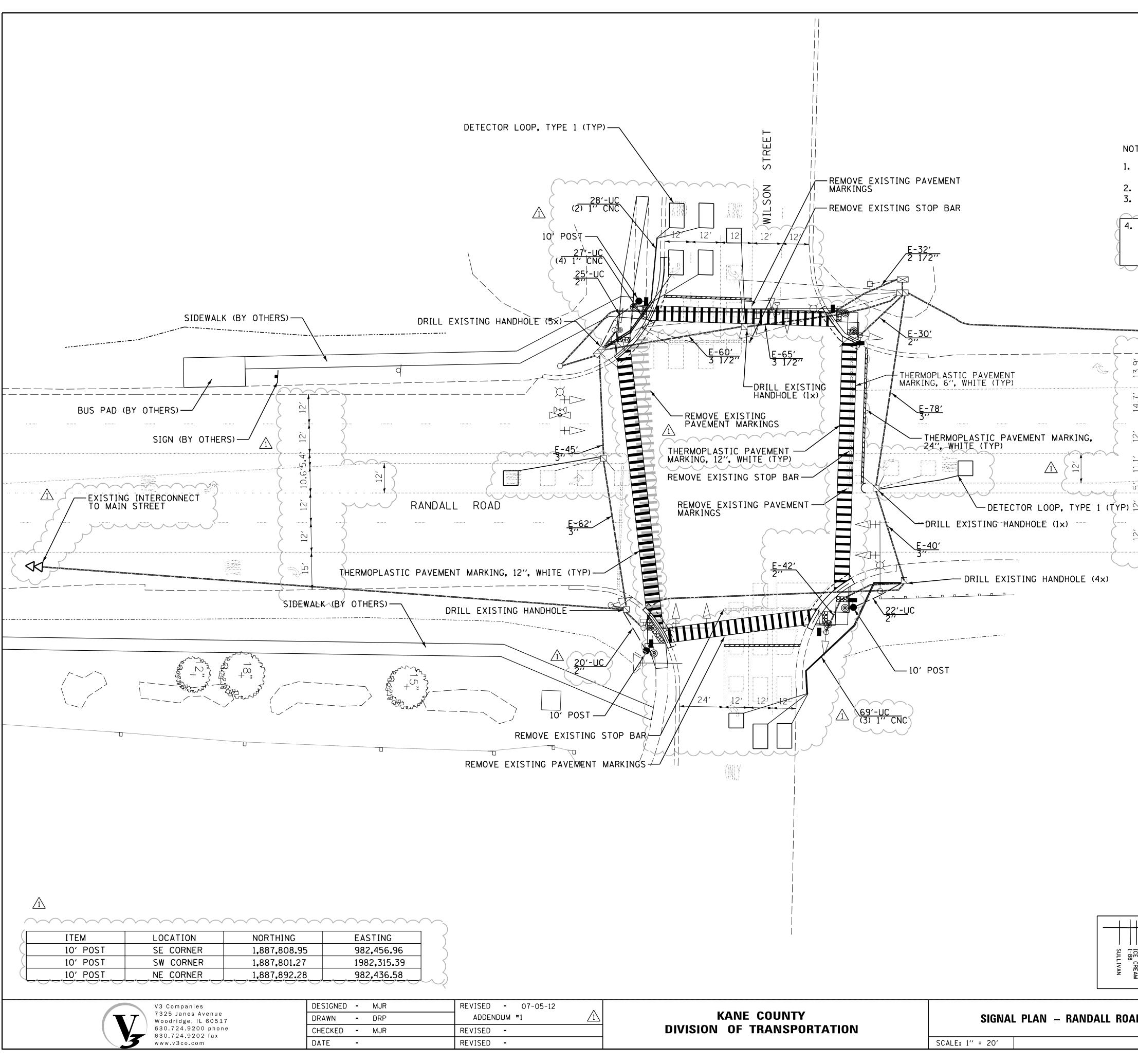
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NTITIES						$\left\{ \right.$
EM				UNIT	QTY	
NAL POST, IO FT OUNDATION, TYPE A ING HANDHOLE SIGNAL HEAD, LED, I-FACE, BRACKET MO OOP, TYPE I PEDESTRIAN SIGNALS STING CONTROLLER TRAFFIC SIGNAL SYSTEM - LEVEL II E FEATURE	OUNTED WITH	COUNTDOWN	TIMEF	EACH FOOT EACH FOOT EACH EACH EACH EACH	3 12 23 8 1818 8 1 1 8	ξ
ABLE PLAN AND PHASE	F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ALL ROAD AND MILL STREET				KANE	55	15



THE FOLLOWING ITEMS SHAL DISPOSED OF BY THEM_OUT	SIDE THE RIGHT	-OF-WAY AT THEIR	EXPENSE. 1	THE
SALVAGE VALUE OF THE REI CONTRACT BID PRICE.	MOVED EQUIPME	NT SHALL BE REFLE	CTED IN THE	
1 EACH TRAFFI	C SIGNAL POST			
TES:				
UNLESS OTHERWISE NOTED SIGNAGE SHALL BE DONE I	BY OTHERS.			
ALL EXISTING CONDUIT SI ALL CONFLICTING PAVEMEN SHALL BE REMOVED.				
CONTRACTOR TO CONNECT EXISTING LEAD IN CABLE. SEPERATELY BUT WILL BE	THIS WORK W	ILL NOT BE PAID		
FOR DETECTOR LOOP.		EXISTING INTERCO		
		<u>TO MILL</u> STREET		EX ROW
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12.5'				
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FARGO CHRISTINA GLENEAGLE MILL MILLSON MILLSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON MILSON 	−IL64 ^IL38 −BRICHER	20	0	20 40
KEY MAP	► C Z	I"=20' SCALE		FEET
AD AND MCKEE STREET	F.A. RTE.	SECTION	COUNTY KANE	TOTAL SHEETSSHEET NO.5516
		ILLINOIS	I	

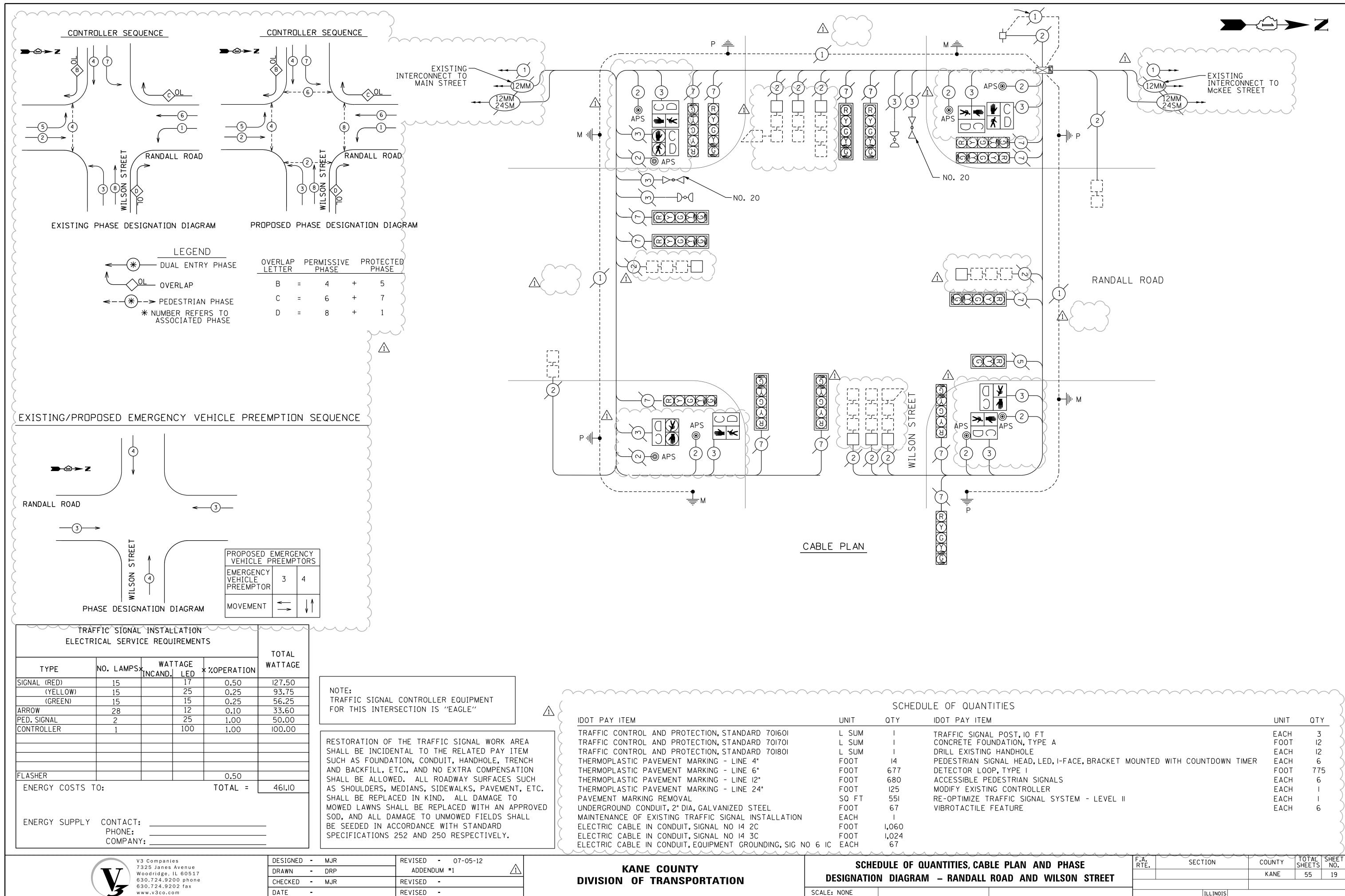


EQUIPMENT				SCHE	DULE OF QUANTITIES			
'EAGLE''	<u>/1</u>	DOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY	
		TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	I	TRAFFIC SIGNAL POST, 10 FT	EACH	3	
		> TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	TRAFFIC SIGNAL POST, 16 FT	EACH	I	
SIGNAL WORK A	REA	<pre></pre>	L SUM	I	CONCRETE FOUNDATION, TYPE A	FOOT	16	
RELATED PAY IT	TEM	(THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	28	DRILL EXISTING HANDHOLE	EACH	8	
T, HANDHOLE, TRE	ENCH	(THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	716	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME	R EACH	8	
EXTRA COMPENSA	TION	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	708	DETECTOR LOOP, TYPE I	FOOT	2,013	
WAY SURFACES	SUCH	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	190	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	
WALKS, PAVEMEN ⁻	T, ETC.	PAVEMENT MARKING REMOVAL	SQ FT	508	RELOCATE EXISTING SIGNAL HEAD	EACH	2	
ALL DAMAGE TO)	> UNDERGROUND, 2" DIA, GALVANIZED STEEL	FOOT	37	MODIFY EXISTING CONTROLLER	EACH		
CED WITH AN AF	PROVED	UNDERGROUND, 2 1/2" DIA, GALVANIZED STEEL	FOOT	I	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	24	
OWED FIELDS SH	IALL	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH		
TH STANDARD		ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	I , 326	REMOVE EXISTING CONCRETE FOUNDATION	EACH	I	
RESPECTIVELY.		ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	I , 278	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II	EACH	I	
		CELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO	D 6 IC EACH	36	VIBROTACTILE FEATURE	EACH	8	
		Manna Manna Manna		\sim				
07-05-12			SCHE	DULE OF	QUANTITIES, CABLE PLAN AND PHASE	COUNTY	TOTAL SHE SHEETS NO	
1 <u>/1</u>				DESIGNATION DIAGRAM – RANDALL ROAD AND MCKEE STREET				
			SCALE: NONE		ILLINOIS			



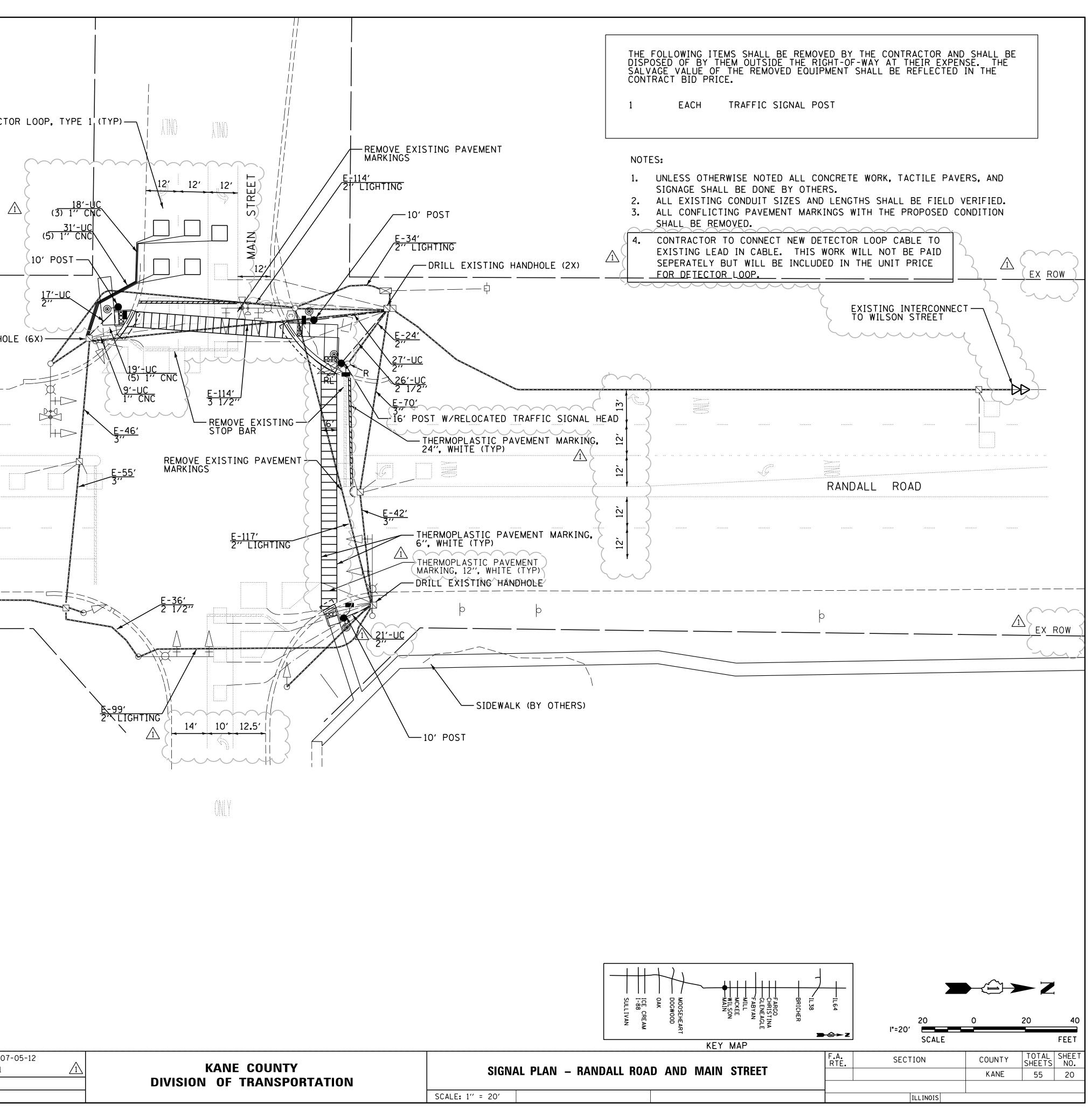
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	SIGNA ALL E ALL C	GE SHA XISTIN(ONFLIC	RWISE NOTED LL BE DONE E G CONDUIT SI TING PAVEMEN MOVED.	BY OTHEI ZES AND	RS. LENG	THS SHA	LL BE FI	ELD VEF	RIFIED.		
	EXIST SEPER	ING LEA ATELY	TO CONNECT AD IN CABLE. BUT WILL BE DR LOOP.	THIS N	WORK W	VILL NOT	BE PAI	<	~~~~		
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	DOGWOOD OAK	~	FARGO CHRISTINA GLENEAGLE FABYAN MILL MILL MKEE WILSON	IL 38 BRICHER	IL64				~ <u></u>	►Z	
	MOOSEHEART DOGWOOD OAK	KE			- @> Z	ŀ	20 =20' 5 CAI	C _E	1	20	40 FEET
D	AND	WILSO			F.A. RTE.		SECTION		COUNTY KANE	TOTAL SHEETS 55	SHEET NO. 18

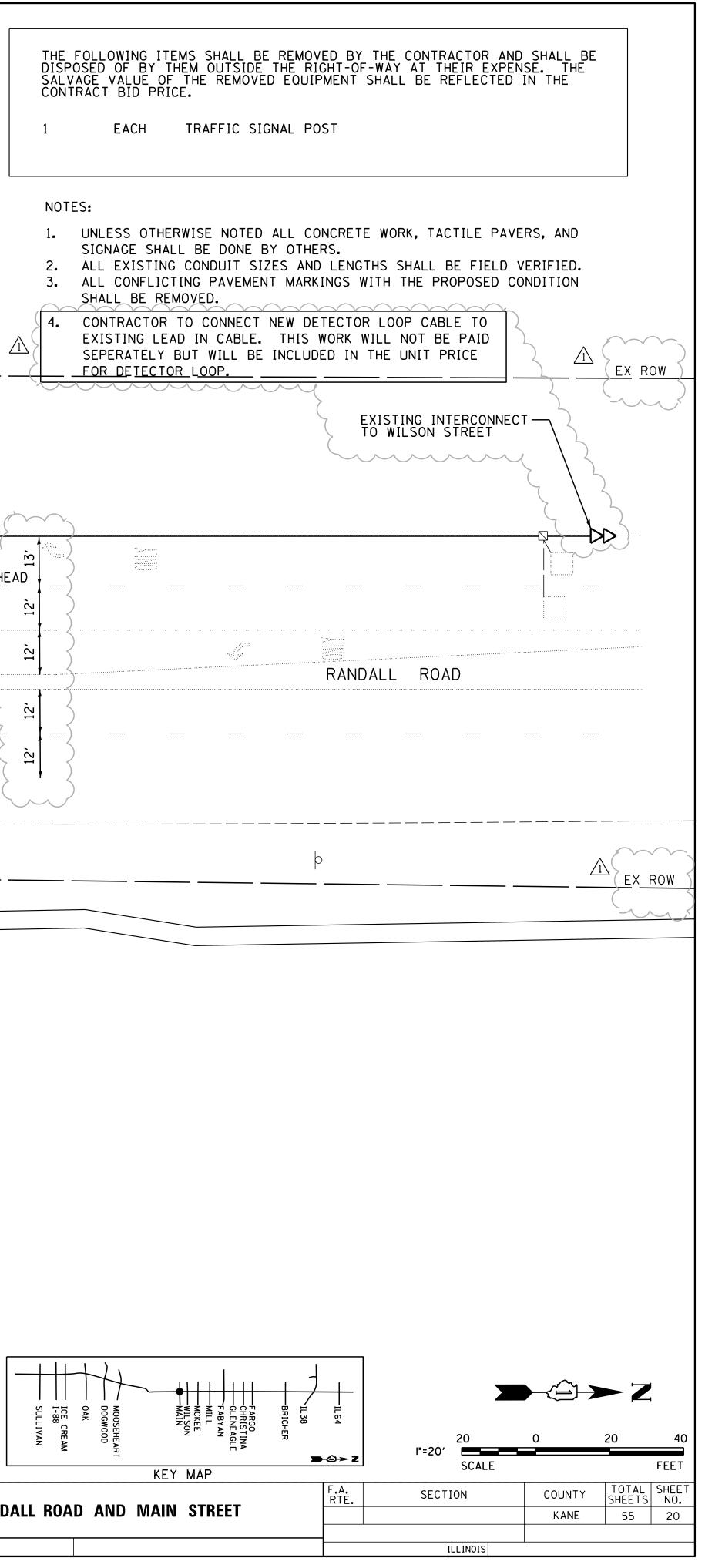
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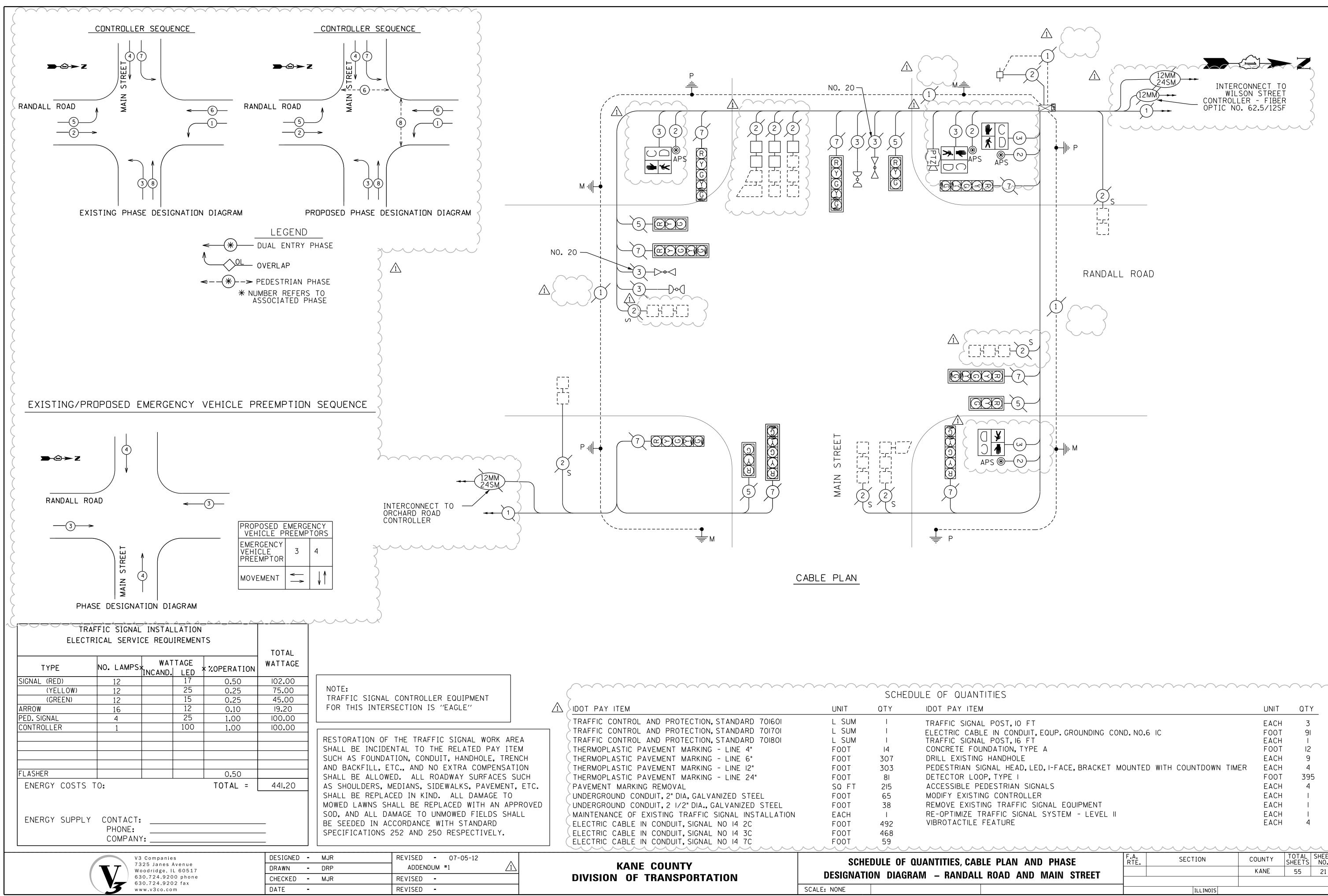


EQUIPMENT	Δ			SCHE	DULE OF QUANTITIES				
		IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM			UNIT	QTY
		TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	I	TRAFFIC SIGNAL POST, 10 FT			EACH	3
IGNAL WORK AR	REA	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	CONCRETE FOUNDATION, TYPE A			FOOT	12
ELATED PAY IT	EM S	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	DRILL EXISTING HANDHOLE			EACH	12
HANDHOLE, TRE	INCH (THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	14	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET M	OUNTED WITH COUNTD	OWN TIMER	EACH	6
TRA COMPENSAT	TION (THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	677	DETECTOR LOOP, TYPE I			FOOT	775
AY SURFACES S	SUCH (THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	680	ACCESSIBLE PEDESTRIAN SIGNALS			EACH	6
LKS, PAVEMENT	「, ETC. 🏹	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	125	MODIFY EXISTING CONTROLLER			EACH	I
LL DAMAGE TO	2	PAVEMENT MARKING REMOVAL	SQ FT	551	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II			EACH	I
D WITH AN AP	PROVED	UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	67	VIBROTACTILE FEATURE			EACH	6
ED FIELDS SHA	ALL	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I					
STANDARD	5	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	I,060					
SPECTIVELY.	5	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	I,024					
	(ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG N	IO 6 IC EACH	67					
7-05-12					ALANTITICO CADIC DIANI AND DUACC	F.A. SECTION		INTY C	TOTAL SHE SHEETS NO
\bigwedge	\mathbf{N}	KANE COUNTY	20HE	DULE UF	QUANTITIES, CABLE PLAN AND PHASE	RIE.			
		DIVISION OF TRANSPORTATION	DESIGNATIO	N DIAGR	AM – RANDALL ROAD AND WILSON STREET		K,	ANE	55 19
	1		SCALE: NONE				NOIS		

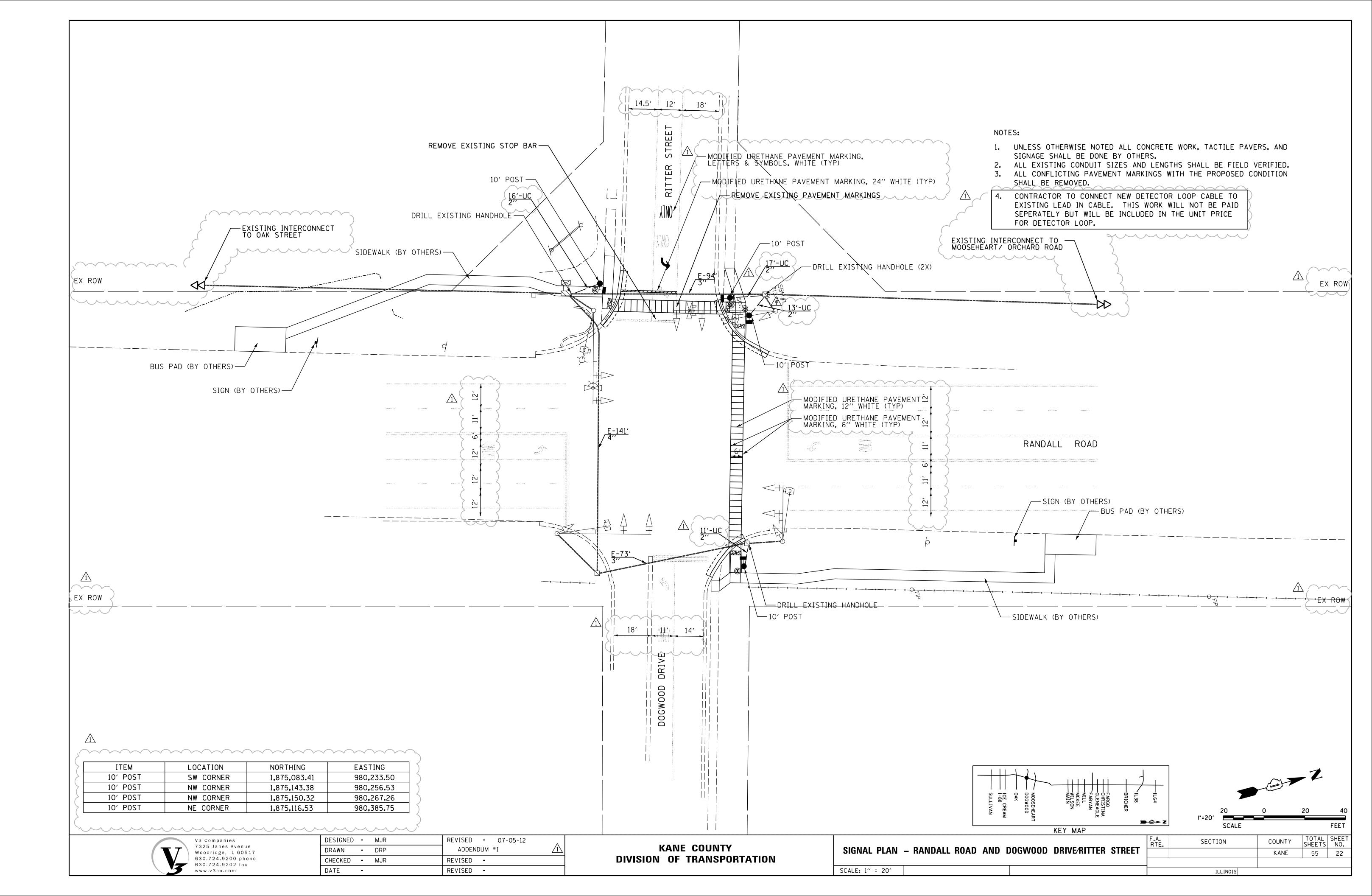
		DETECTOR LOOP, TYPE 1 (TYP) $ \begin{array}{c} 12' \\ 12' \\ 12' \\ 13' \\ 13' \\ 1'' \\ CNC \end{array} $		I XISTING PAVEMENT O' POST
EX ROW		E-36' 2 1/2' E-99' 2'\LIGHTING	12/ E-114/ E-114/ E-70 REMOVE EXISTING F STOP BAR 16' VE EXISTING PAVEMENT F VE EXISTING F 10' 12.5'	$\frac{\sqrt{1}}{\sqrt{1}}$
ITEM LOCATION NORTHIN 10' POST SW CORNER 1,886,72 10' POST NW CORNER 1,866,79 16' POST NW CORNER 1,866,81 10' POST NW CORNER 1,886,814	23.81 982,342.21 99.48 982,347.27 0.08 982,363.99			SULTVAN
V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	DRAWN - DRP AI CHECKED - MJR REVIS	SED - 07-05-12 DDENDUM #1 <u>1</u> SED - DIVISIO	KANE COUNTY ON OF TRANSPORTATION	SIGNAL PLAN - RANDALL F

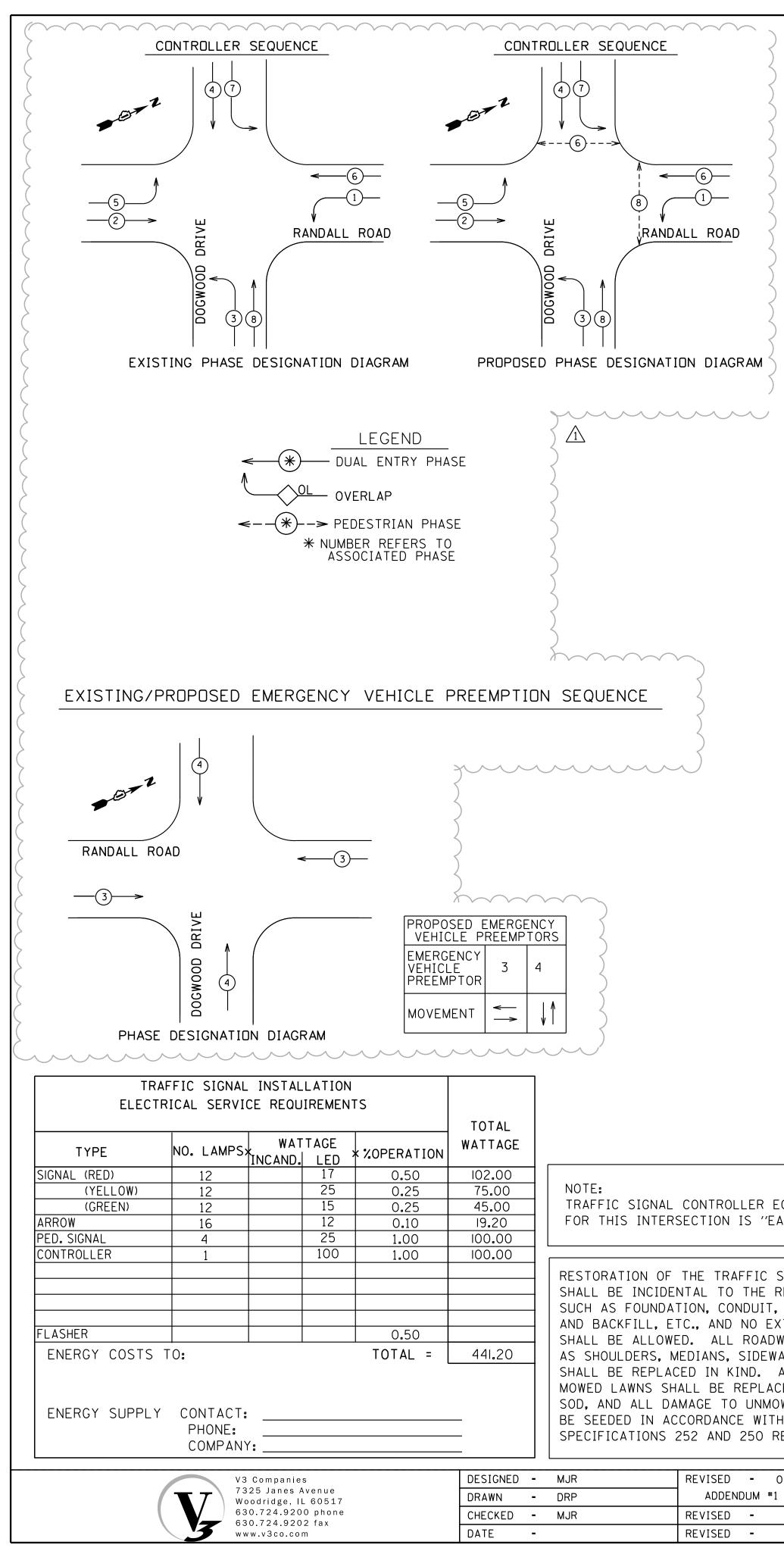


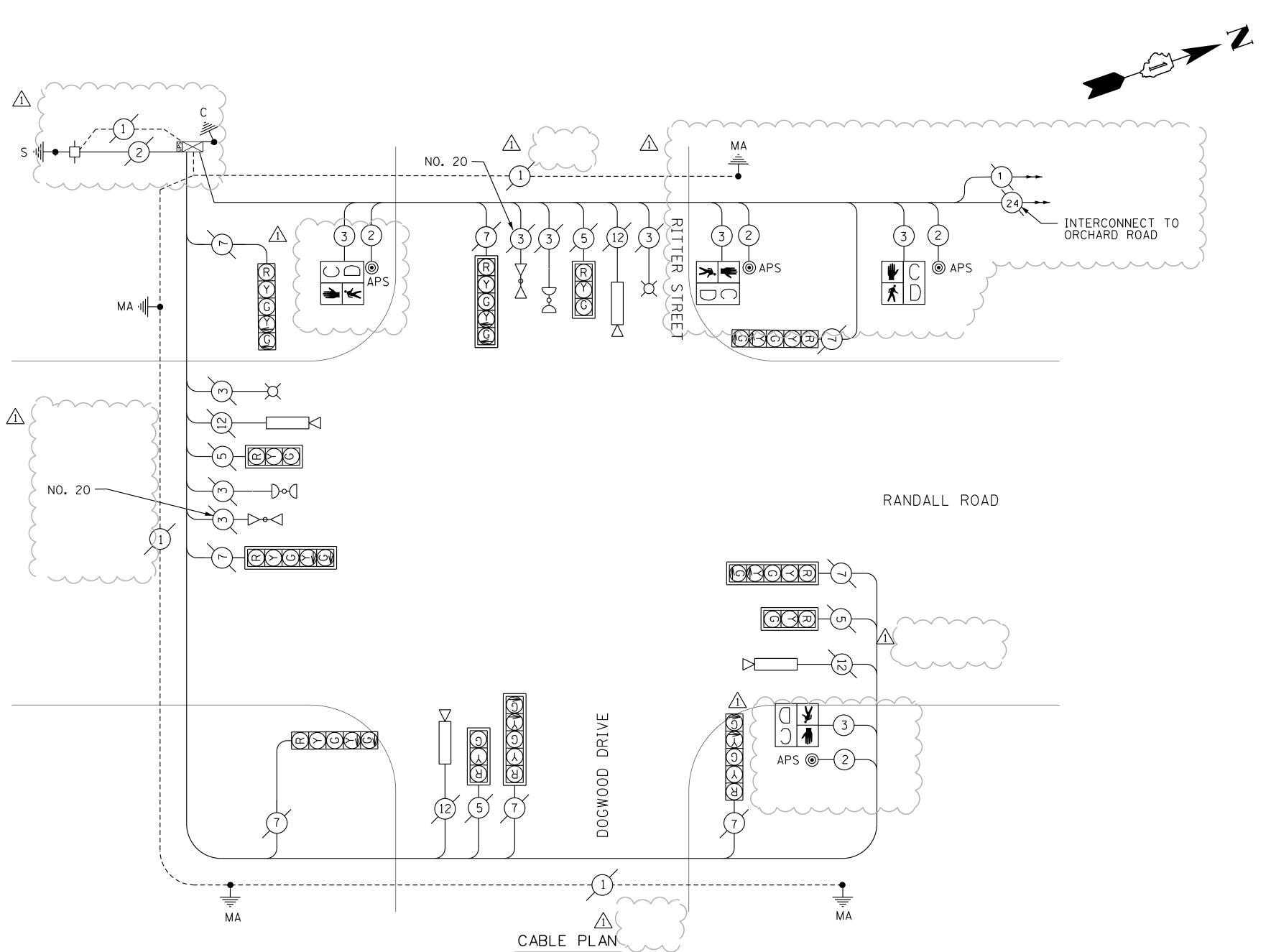




EQUIPMENT		(DULE OF QUANTITIES		
AGLE''		\triangle	IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
			TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	Ι	TRAFFIC SIGNAL POST, 10 FT	EACH	3
		l A	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	ELECTRIC CABLE IN CONDUIT, EQUP. GROUNDING COND. NO.6 IC	FOOT	91
SIGNAL WORK A	REA		TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	TRAFFIC SIGNAL POST, 16 FT	EACH	I
RELATED PAY I	TEM	(THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	14	CONCRETE FOUNDATION, TYPE A	FOOT	12
, HANDHOLE, TR	ENCH		THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	307	DRILL EXISTING HANDHOLE	EACH	9
XTRA COMPENSA	TION	(THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	303	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
WAY SURFACES	SUCH	(THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	81	DETECTOR LOOP, TYPE I	FOOT	395
ALKS, PAVEMEN	T, ETC.	(PAVEMENT MARKING REMOVAL	SQ FT	215	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
ALL DAMAGE TO)		UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	65	MODIFY EXISTING CONTROLLER	EACH	· · · · · · · · · · · · · · · · · · ·
CED WITH AN AF	PPROVED		UNDERGROUND CONDUIT, 2 1/2" DIA., GALVANIZED STEEL	FOOT	38	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	, e
OWED FIELDS S⊢	IALL		MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II	EACH	l i
H STANDARD			ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	492	VIBROTACTILE FEATURE	EACH	4
RESPECTIVELY.		(ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	468			
		(ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 7C	FOOT	59			
					\sim			<u>~~~</u>
07-05-12	A .		KANE COUNTY	SCHE	DULE OF	QUANTITIES, CABLE PLAN AND PHASE	COUNTY S	TOTAL SHEET SHEETS NO.
1 🔟			KANE COUNTY			RAM – RANDALL ROAD AND MAIN STREET	KANE	55 21
			DIVISION OF TRANSPORTATION			NAWI - NAWDALL NOAD AND WAIN SINLLI		
				SCALE: NONE		ILLINOIS		







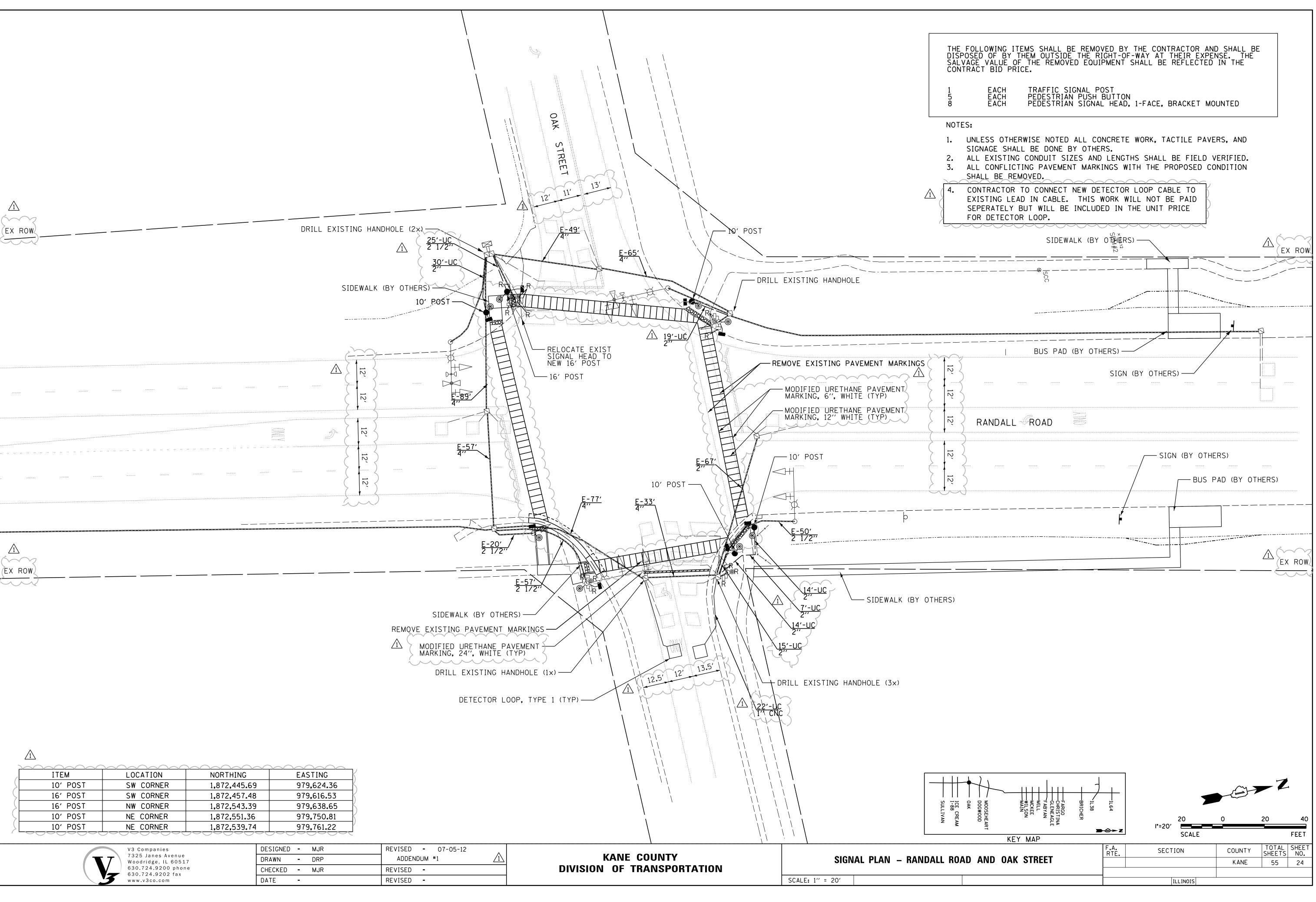
EQUIPMENT					IEDULE OF QUANTITIES	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
EAGLE''							5
		IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
	2	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	I	TRAFFIC SIGNAL POST, 10 FT	EACH	3 5
SIGNAL WORK A	REA	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	Ι	CONCRETE FOUNDATION, TYPE A	FOOT	12
RELATED PAY IT	TEM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	DRILL EXISTING HANDHOLE	EACH	4 <
F, HANDHOLE, TRE	ENCH	> THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYME	BOLS SQ FT	36	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
EXTRA COMPENSA	ATION	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	309	ACCESSIBLE PEDESTRIAN SIGNAL	EACH	4)
DWAY SURFACES	SUCH (MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	305	MODIFY EXISTING CONTROLLER	EACH	
WALKS, PAVEMEN ⁻	IT, ETC.	(MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	28	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL I	EACH	
ALL DAMAGE TO	0 (PAVEMENT MARKING REMOVAL	SQ FT	78	VIBROTACTILE FEATURE	EACH	4 5
ACED WITH AN AF	PPROVED	UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	57			5
10WED FIELDS SH	HALL	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I			5
TH STANDARD		ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	639			\langle
RESPECTIVELY.		ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	615			2
		ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO	0 6 IC EACH	57			
07-05-12			SCH	DULE OF	F QUANTITIES, CABLE PLAN AND PHASE	UNTY T	TOTAL SHEET HEETS NO.
*l <u>/</u>]		KANE COUNTY DIVISION OF TRANSPORTATION				ANE	55 23
			SCALE: NONE		ILLINOIS		

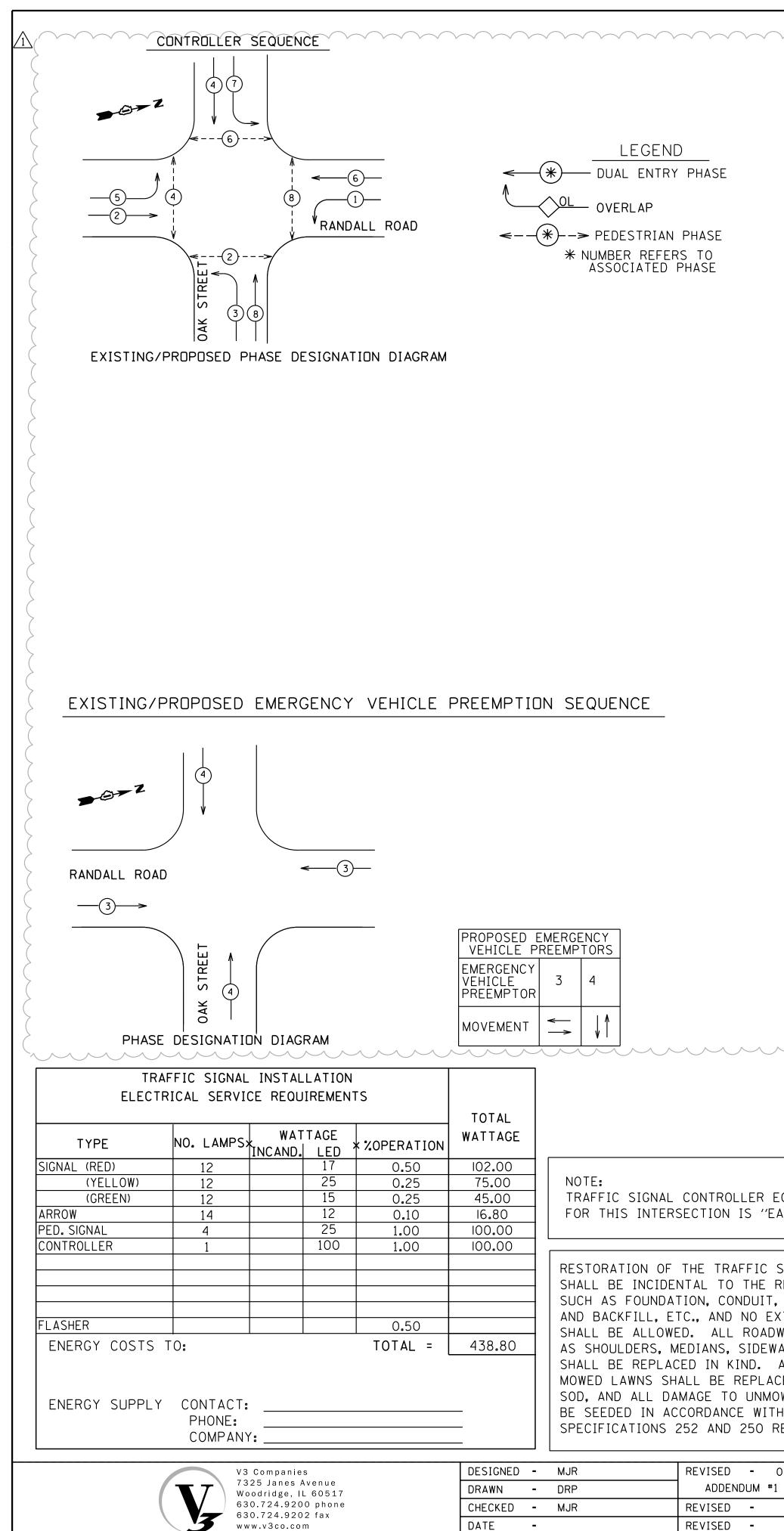
10' POST	NE CORNER	1,872,551.36	979,750.81	
10' POST	NE CORNER	1,872,539.74	979,761.22	/
	V3 Companies	DE	SIGNED - MJR	REVISED - O
	7325 Janes Avenue Woodridge, IL 60517	7 DR	AWN - DRP	ADDENDUM #1
	630.724.9200 phone 630.724.9202 fax	e CH	ECKED - MJR	REVISED -
	3 www.v3co.com	DA	TE -	REVISED -

ITEM	LOCATION	NORTHING	EASTING
10' POST	SW CORNER	1,872,445.69	979,624.36
16' POST	SW CORNER	1,872,457.48	979,616.53
16' POST	NW CORNER	1,872,543.39	979,638.65
10' POST	NE CORNER	1,872,551.36	979,750.81
10' POST	NE CORNER	1,872,539.74	979,761.22

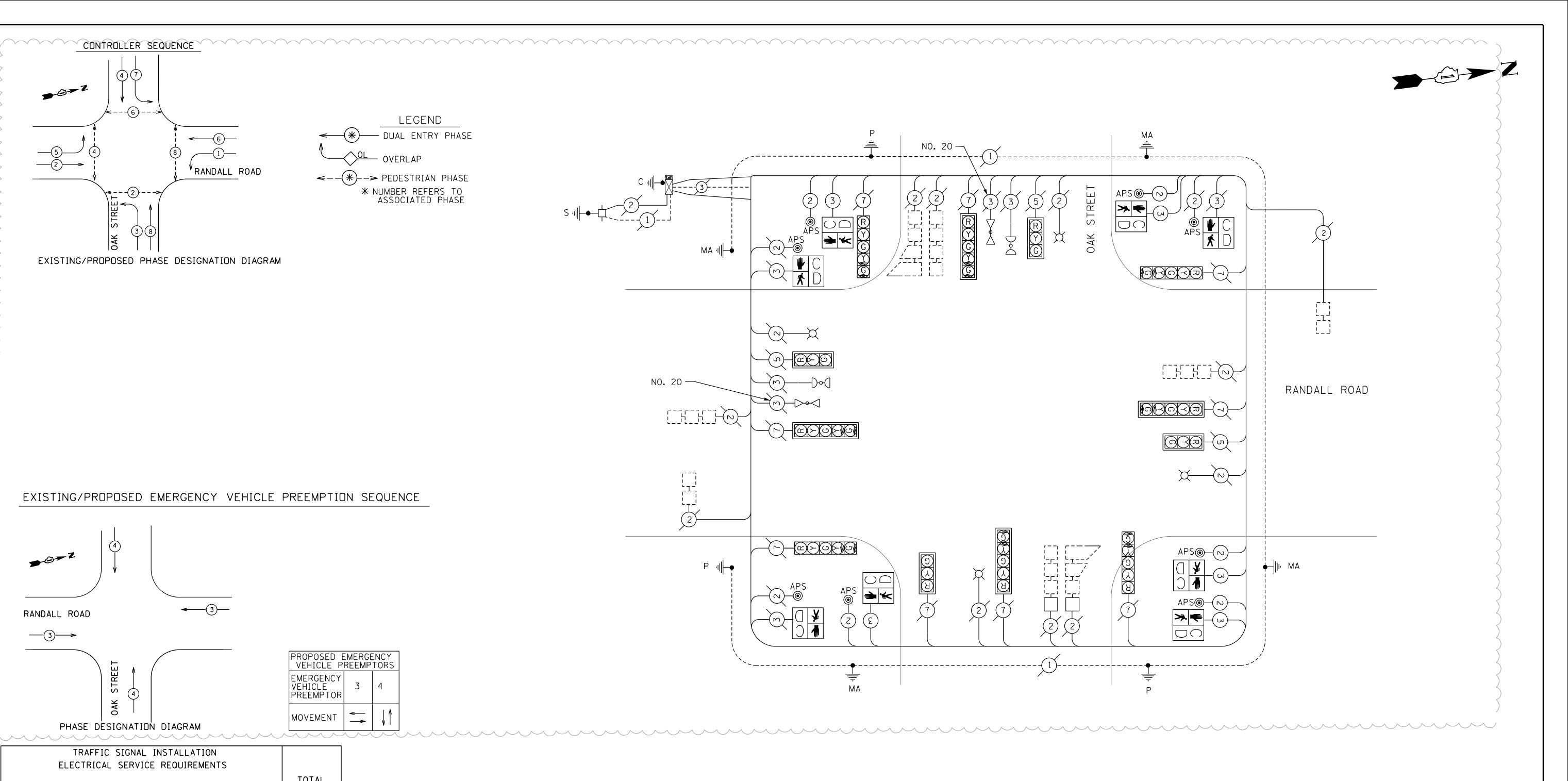
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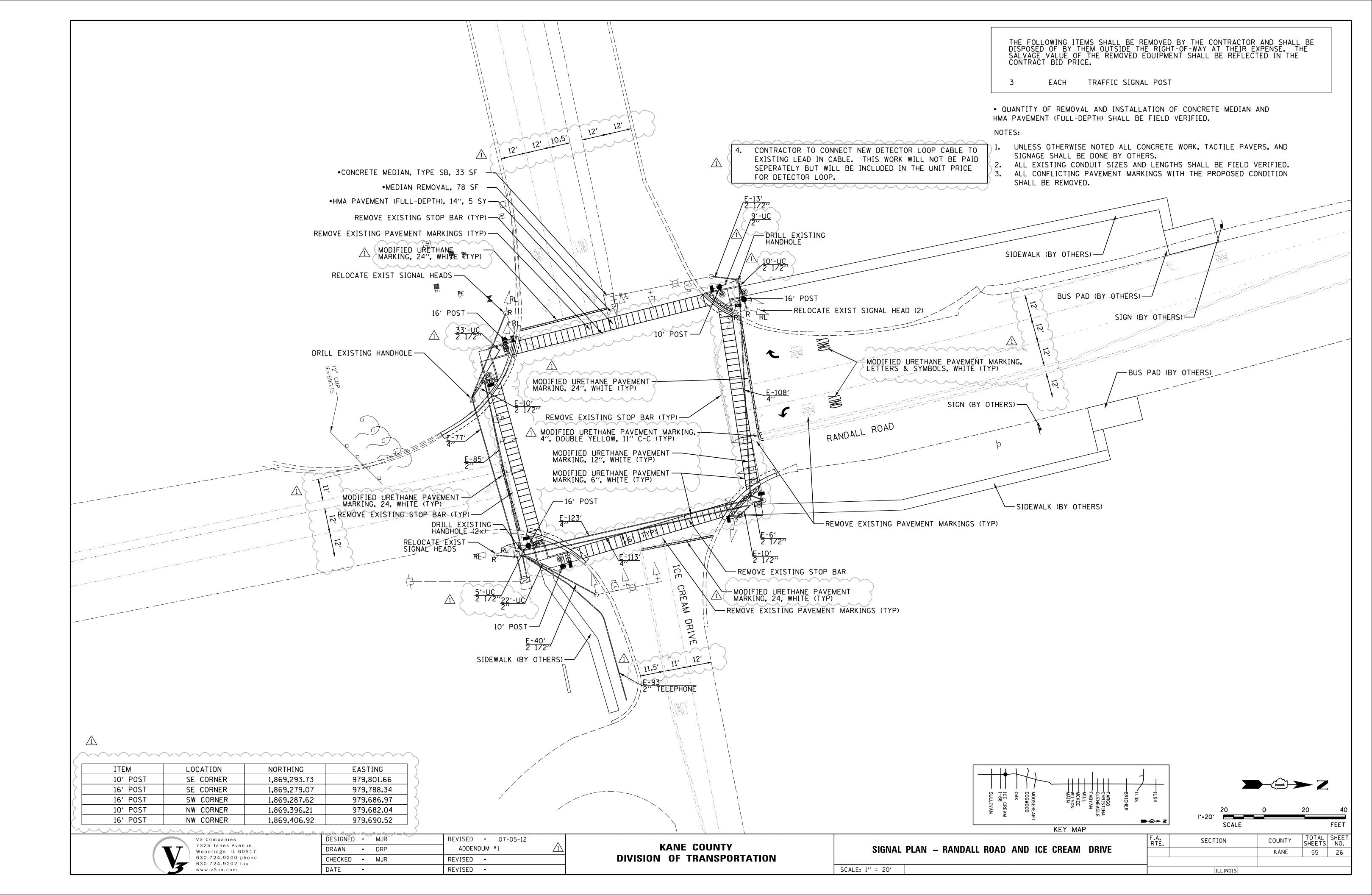


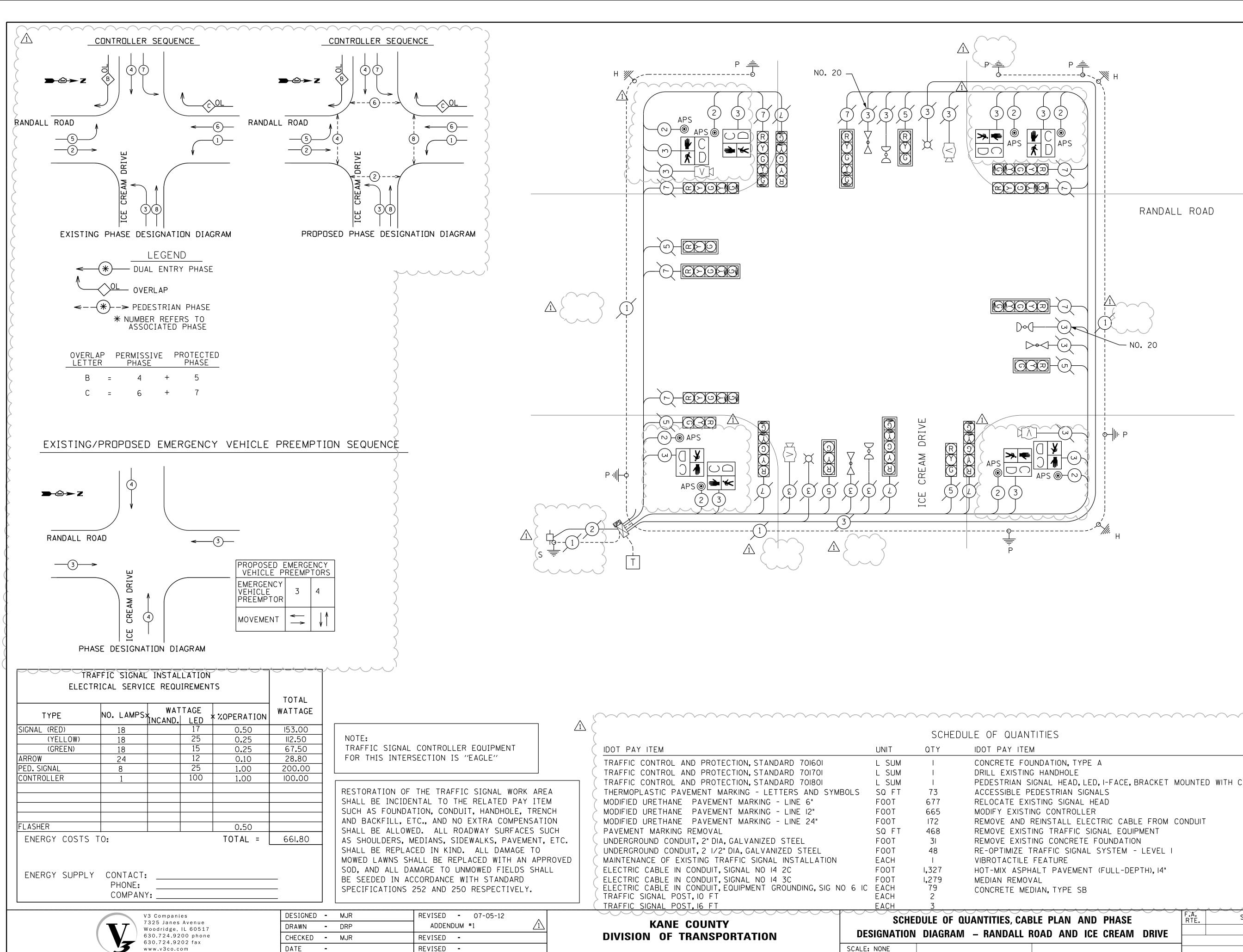


	$\langle \frown$				EDULE OF QUANTITIES	\sim	\sim
	Ş	IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT) QTY)
'EAGLE''	2	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM		CONCRETE FOUNDATION, TYPE A	FOOT	16
	>	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	DRILL EXISTING HANDHOLE	EACH	9)
	>	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM		PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEF	R EACH	6
SIGNAL WORK AREA	5	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	669	DETECTOR LOOP, TYPE I	FOOT	II4 Š
RELATED PAY ITEM	5	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	670	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
T, HANDHOLE, TRENCH	$\left(\right)$	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	32	RELOCATE EXISTING SIGNAL HEAD	EACH	
EXTRA COMPENSATION	(PAVEMENT MARKING REMOVAL	SQ FT	263	MODIFY EXISTING CONTROLLER	EACH	ιζ
DWAY SURFACES SUCH	Ć	CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	87	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	52 🗸
WALKS, PAVEMENT, ETC.	7	CONDUIT IN TRENCH, 2 1/2" DIA, GALVANIZED STEEL	FOOT	31	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	I 2
ALL DAMAGE TO	2	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	REMOVE EXISTING CONCRETE FOUNDATION	EACH	
ACED WITH AN APPROVED	>	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	I , 225	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL I	EACH	
MOWED FIELDS SHALL	>	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	I , 189	VIBROTACTILE FEATURE	EACH	6
TH STANDARD	\leq	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO) 6 IC EACH	109			5
RESPECTIVELY.	(TRAFFIC SIGNAL POST, 10 FT	EACH	3			5
		TRAFFIC SIGNAL POST, 16 FT	EACH			· · · · ·	
07.05.10				0000			TOTAL SHEET
07-05-12		KANE COUNTY	SCHE	DULE OF	OUANTITIES, CABLE PLAN AND PHASE	COUNTY	TOTAL SHEET SHEETS NO.
*1 /1		DIVISION OF TRANSPORTATION	DESIGNAT	ION DIA	GRAM – RANDALL ROAD AND OAK STREET	KANE	55 25
			SCALE: NONE		ILLINOIS		



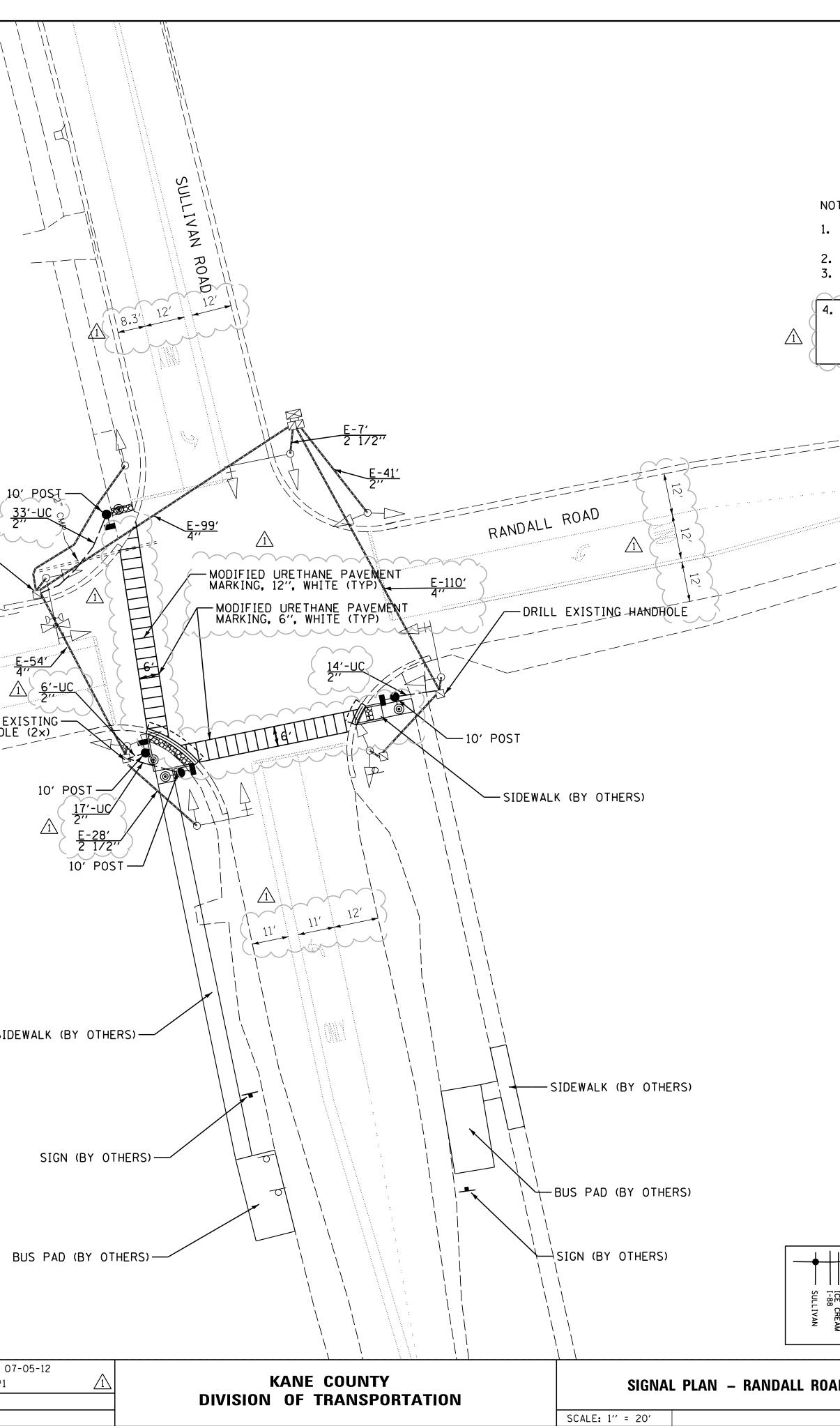
ABLE PLAN AND PHASE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ALL ROAD AND OAK STREET			KANE	55	25
		ILLINOIS			
		ILLINUIS			





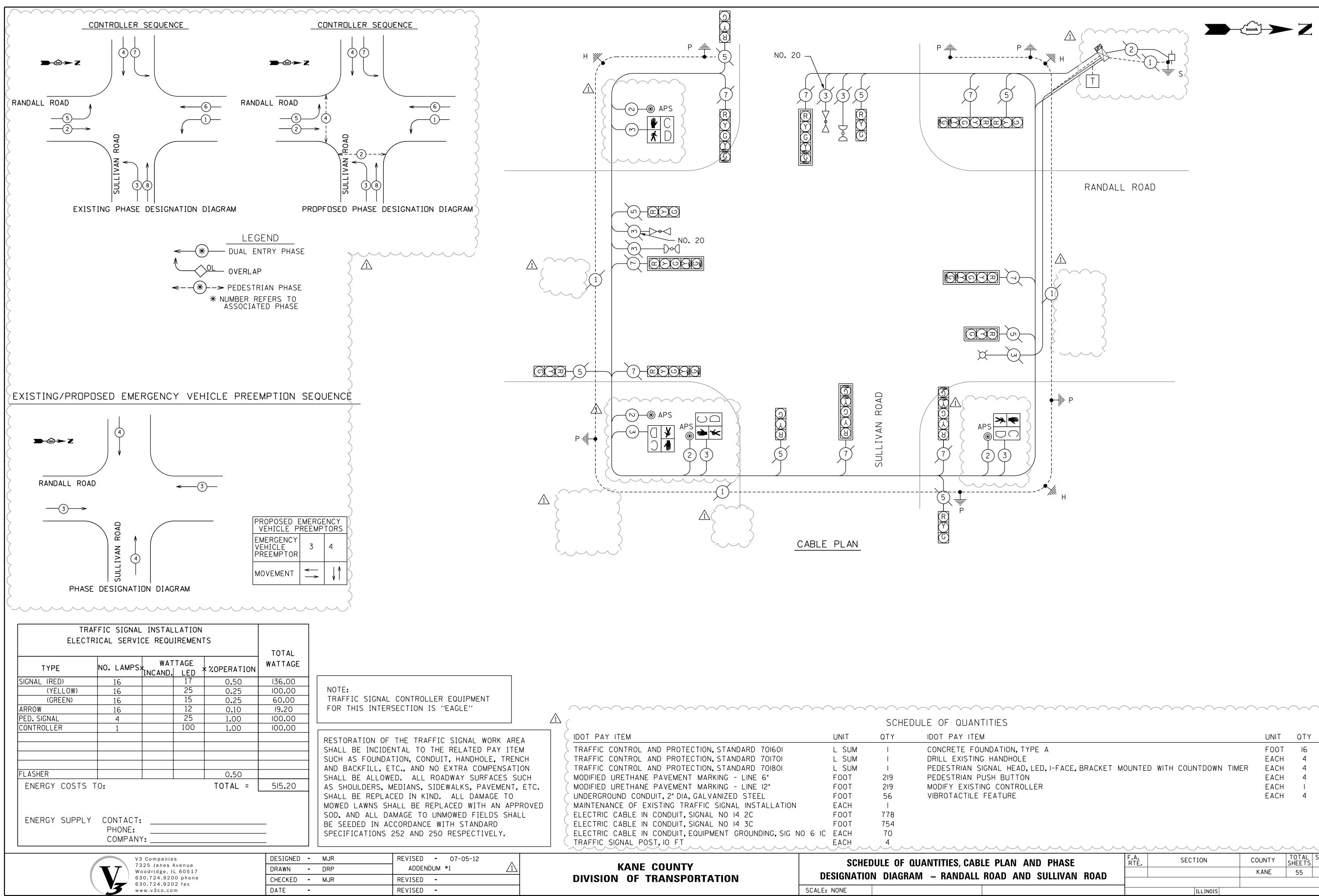
						* * *
			SCHEL	DULE OF QUANTITIES		
QUIPMENT	(IDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
AGLE''	(TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	I	CONCRETE FOUNDATION, TYPE A	FOOT	20
	(TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	DRILL EXISTING HANDHOLE	EACH	4
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
SIGNAL WORK AREA	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBO	LS SQ FT	73	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
ELATED PAY ITEM	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	677	RELOCATE EXISTING SIGNAL HEAD	EACH	6
HANDHOLE, TRENCH	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	665	MODIFY EXISTING CONTROLLER	EACH	I
TRA COMPENSATION	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	172	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	125
AY SURFACES SUCH	> PAVEMENT MARKING REMOVAL	SQ FT	468	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	I
LKS, PAVEMENT, ETC.	UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	31	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
LL DAMAGE TO	UNDERGROUND CONDUIT, 2 1/2" DIA, GALVANIZED STEEL	FOOT	48	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL I	EACH	I
ED WITH AN APPROVED	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I	VIBROTACTILE FEATURE	EACH	8
VED FIELDS SHALL	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	I , 327	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"	SQ YD	5
STANDARD	ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	1,279	MEDIAN REMOVAL	SQ FT	78
ESPECTIVELY.	> ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO		79	CONCRETE MEDIAN, TYPE SB	SQ FT	
	TRAFFIC SIGNAL POST, 10 FT	EACH	2			
	(TRAFFIC SIGNAL POST, 16 FT	EACH	3			
07-05-12		SCH	EDULE OF	QUANTITIES, CABLE PLAN AND PHASE	OUNTY	TOTAL SHEETS
<u>_1</u>	KANE COUNTY				KANE	55
	DIVISION OF TRANSPORTATION	DESIGNATIO		M – RANDALL ROAD AND ICE CREAM DRIVE		I
		SCALE: NONE		ILLINOIS		

				DRILL EXISTING
			·····	DRILL EX HANDHOLI
				SID
ITEM 10' POST 10' POST 10' POST 10' POST	LOCATION SE CORNER SE CORNER SW CORNER NE CORNER	NORTHING 1,865,457.70 1,865,448.68 1,865,451.30 1,865,524.98	EASTING 979,812.52 979,804.58 979,732.46 979,802.87	
	V3 Companies 7325 Janes Avenue Woodridge, IL 6051 630.724.9200 phor 630.724.9202 fax www.v3co.com	L 7	DESIGNED - MJR DRAWN - DRP CHECKED - MJR DATE -	REVISED - O ADDENDUM *1 REVISED - REVISED -



TES:		
UNLESS OTHERWISE NOTED ALL CO SIGNAGE SHALL BE DONE BY OTHE ALL EXISTING CONDUIT SIZES AND ALL CONFLICTING PAVEMENT MARK	RS.) LENGTHS SHALL BE FIE	LD VERIFIED.
SHALL BE REMOVED. CONTRACTOR TO CONNECT NEW DE EXISTING LEAD IN CABLE. THIS SEPERATELY BUT WILL BE INCLUD FOR DETECTOR LOOP.	WORK WILL NOT BE PAID	
		<u> </u>
IL 38 		
	20 I'=20'	0 20 40
	SCALE SCALE	
D AND SULLIVAN ROAD	F.A. SECTION	COUNTY TOTAL SHEET SHEETS NO. KANE 55 28

ILLINOIS



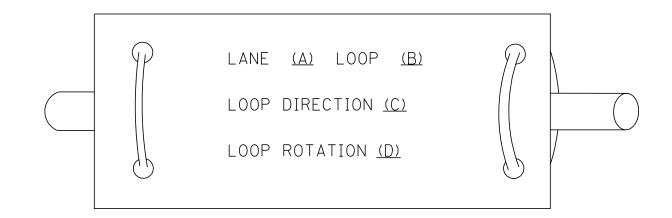
EQUIPMENT EAGLE''			\sim			\sim
<u>/1</u>	\overline{A} (SCHE	DULE OF QUANTITIES		5
SIGNAL WORK AREA	GIDOT PAY ITEM	UNIT	QTY	IDOT PAY ITEM	UNIT	QTY
RELATED PAY ITEM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM		CONCRETE FOUNDATION, TYPE A	FOOT	16)
T, HANDHOLE, TRENCH	C TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	I	DRILL EXISTING HANDHOLE	EACH	4)
EXTRA COMPENSATION	(TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	I	PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIM	ER EACH	4)
DWAY SURFACES SUCH	(MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	219	PEDESTRIAN PUSH BUTTON	EACH	4
WALKS, PAVEMENT, ETC.	(MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	219	MODIFY EXISTING CONTROLLER	EACH	Iς
ALL DAMAGE TO	🛆 UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL	FOOT	56	VIBROTACTILE FEATURE	EACH	4 5
ACED WITH AN APPROVED	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	I			5
NOWED FIELDS SHALL	> ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 2C	FOOT	778			2
TH STANDARD	> ELECTRIC CABLE IN CONDUIT, SIGNAL NO 14 3C	FOOT	754			\langle
RESPECTIVELY.	SELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING, SIG NO	5 IC EACH	70)
	TRAFFIC SIGNAL POST, 10 FT	EACH	4	······································		\sim
07-05-12	KANE COUNTY	SCHE	DULE OF	QUANTITIES, CABLE PLAN AND PHASE	COUNTY	TOTAL SHEE SHEETS NO.
<u>*1</u> <u>/1</u>	DIVISION OF TRANSPORTATION	DESIGNATIO	ON DIAGR	AM – RANDALL ROAD AND SULLIVAN ROAD	KANE	55 29
	SC	CALE: NONE		ILLINOIS		

BLE PLAIN AIND PHASE	RIE.	02011011	000111	SHEEIS	NO.
L ROAD AND SULLIVAN ROAD			KANE	55	29
L HOAD AND COLLIVAN HOAD					
		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 EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOC (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OU) NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE D WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAF DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKE NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO TH
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AN THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORI E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESID WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE 18'' (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLAN PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SH 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 ROADW
- 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

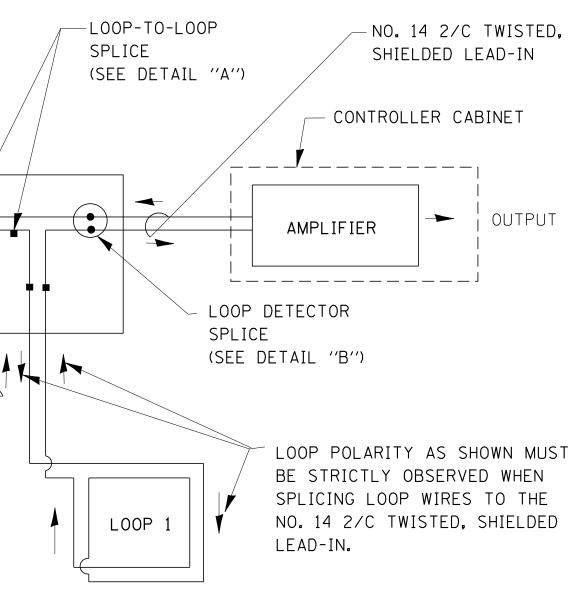
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c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d01126	4\traff1c_legend_v7.dgn	DRAWN -	ВСК	REVISED	-
	PLOT SCALE = 20.0000 ′ / IN.	CHECKED -	DAD	REVISED	-
	PLOT DATE = 10/6/2009	DATE -	10/28/09	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPOR	RTATION STANDARD TRAFFIC SIGN SCALE: SHEET NO. 1 OF 6 SHEETS
	T XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQU
	6 PRE-FORMED LOOP
Ε.	5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
	4 NO. 14 2/C TWISTED, SHIELDED CABLE.
ON.	3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENG
IAY	2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LEN
	(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CO OF THE SOLDER SHALL BE SMOOTH.
	LOOP DETECTOR SPLICE
	DETAIL ''A'' <u>PRE-F</u> LOOP-TO-LOOP SPLICE
ANS, WHERE NEW CONCRETE Hall be in accordance with	LOOP-TO-LOOP SPLICE
TORCHES OR OTHER SOLDERING OPERATIONS.	DETAIL "A"
WIRE BRUSHING AND HEAT DETECTOR WIRE SHALL E SPACED NO MORE THAN	5 1 INCH (25 mm) MIN. [TYP.]
ID DIVEHOLES MARKED AT DANCE WITH LOCAL AND BE INSTALLED IN WET DUE SUCH AS DUST AND	THE SAW-CUT DEPTH SHALL BE TO THE TOP LOOP CORNERS SHALL BE DRILLED WITH A 2
HE HANDHOLE HOOKS.	 SAW-CUTS SHALL BE A MINIMUM WIDTH OF SAW-CUT DEPTHS SHALL BE 3'' (75 mm). IF
	 LOOPS SHALL BE SPLICED IN SERIES.
FIC SIGNAL DESIGN DRAWINGS AND PRESENT ED BY LANE AND LOOP	DETECTOR LOOP WIRING SCHEMATIC
OP, LOOP ROTATION T), LOOP CABLE DETECTOR LOOPS IN	VEHICLE MOVEMENT LOOP 3 V V LOOP 2
IN THE HANDHOLE.	



JUNCTION BOX LOOP TAG ----**`**₩₩ ₩₩ ₩ STRANDED LOOP WIRE NO. 14 1/C IN EMPTY COILABLE NONMETALLIC CONDUIT [5 TWISTS/FT(MM)]

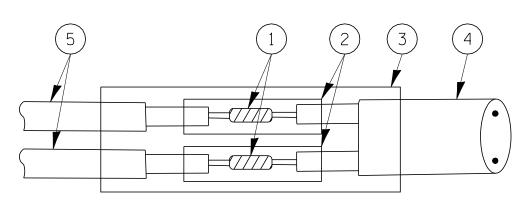
HANDHOLE OR



5/16" (8 mm).

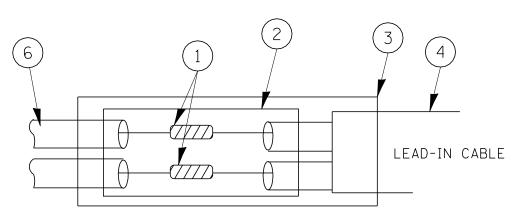
IN CONCRETE, P OF THE REINFORCEMENT.

2" (50 mm) DIAMETER CORE.



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

YPE I LOOP



FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

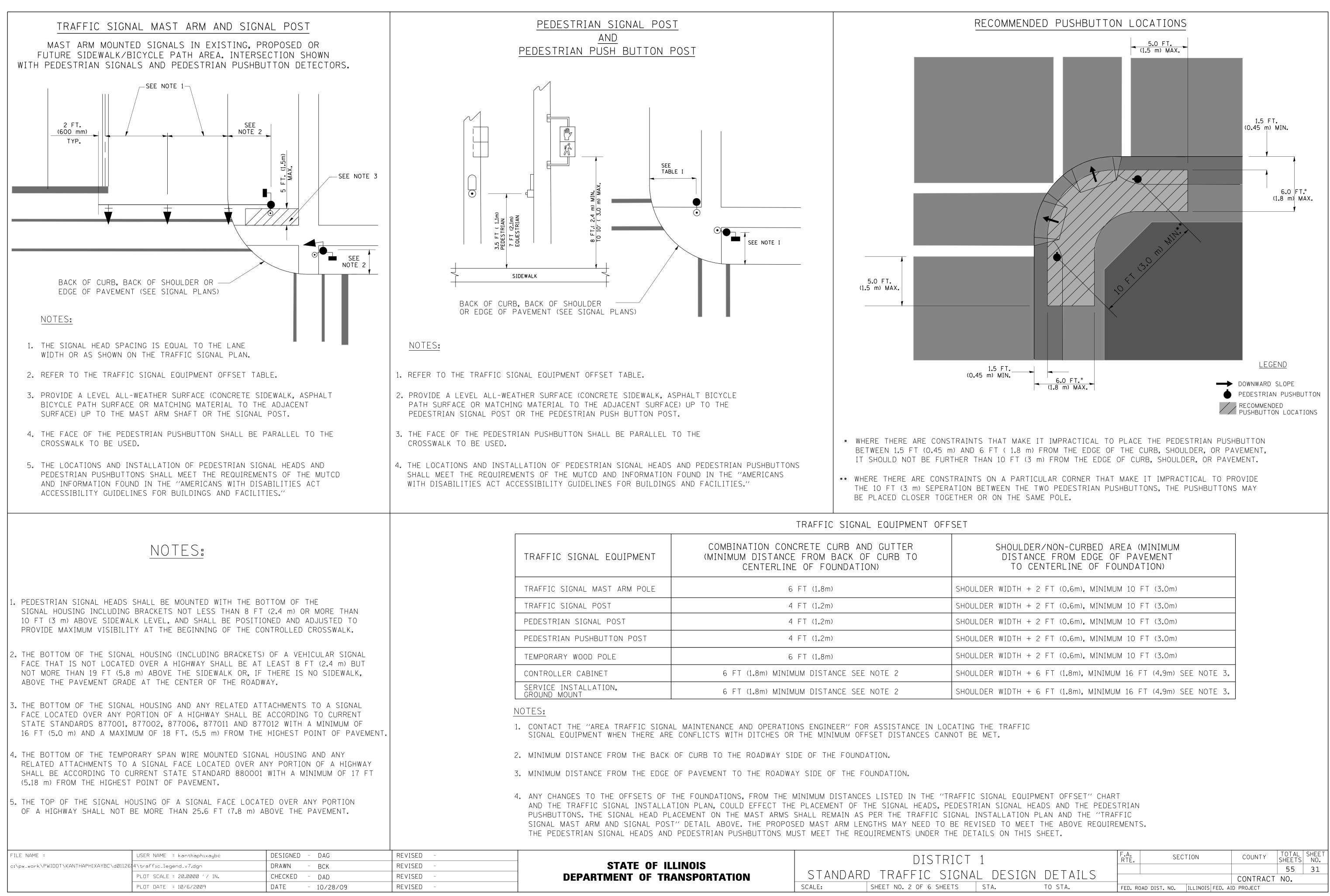
CORE FLUX. ALL EXPOSED SURFACES

NGTH 3" (75 mm), UNDERWATER GRADE.

GHT 6'' (150 mm), UNDERWATER GRADE.

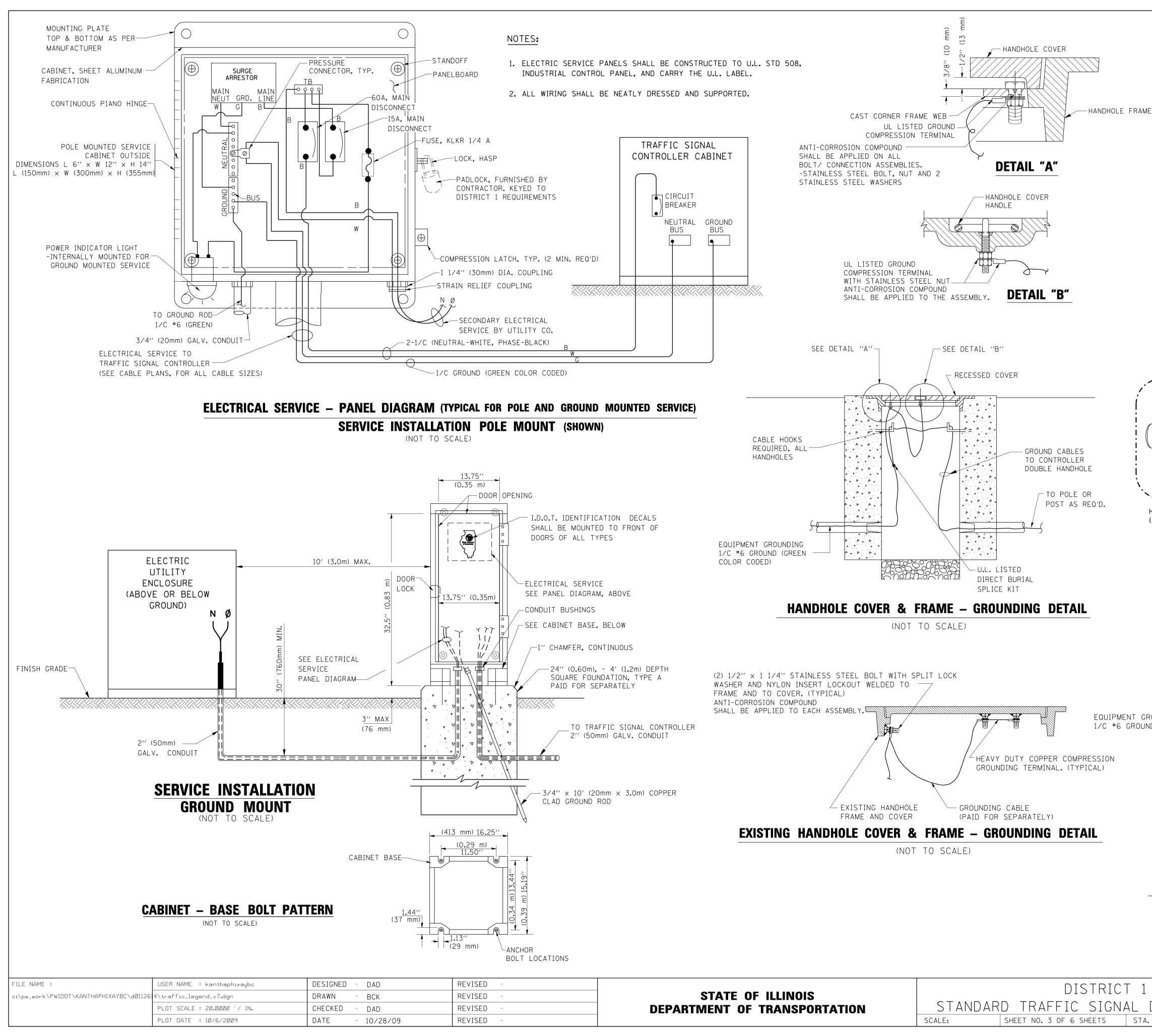
UAL

			_					
⁻ one Nai design details		F.A. Rte.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
						55	30	
N /	AL DLJI	UN DETAILS	_			CONTRACT	NO.	
	STA.	TO STA.	FED. RC	DAD DIST. NO.	ILLINOIS FED. A	D PROJECT		



TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)				
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOUL			
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOUL			
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOUL			
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOUL			
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOUL			
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL			
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL			

STATE OF ILLINOIS		DISTRICT	1		F.A. SEC	TION	COUNTY	TOTAL SH SHEETS N
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS					CONTRACT	55 3 NO.	
	SCALE:	SHEET NO. 2 OF 6 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. A	ID PROJECT	



NOTES:

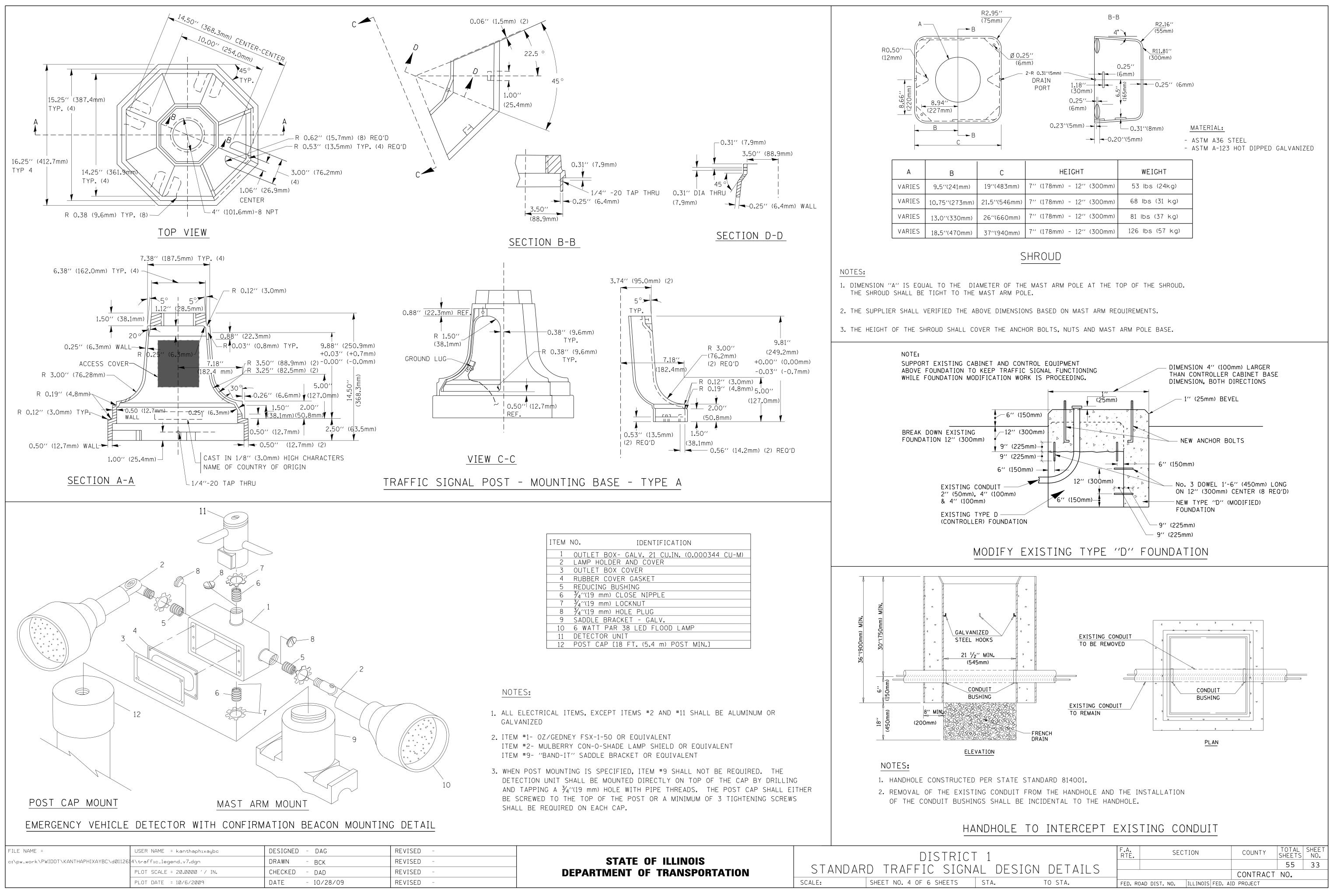
GROUNDING SYSTEM

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

- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

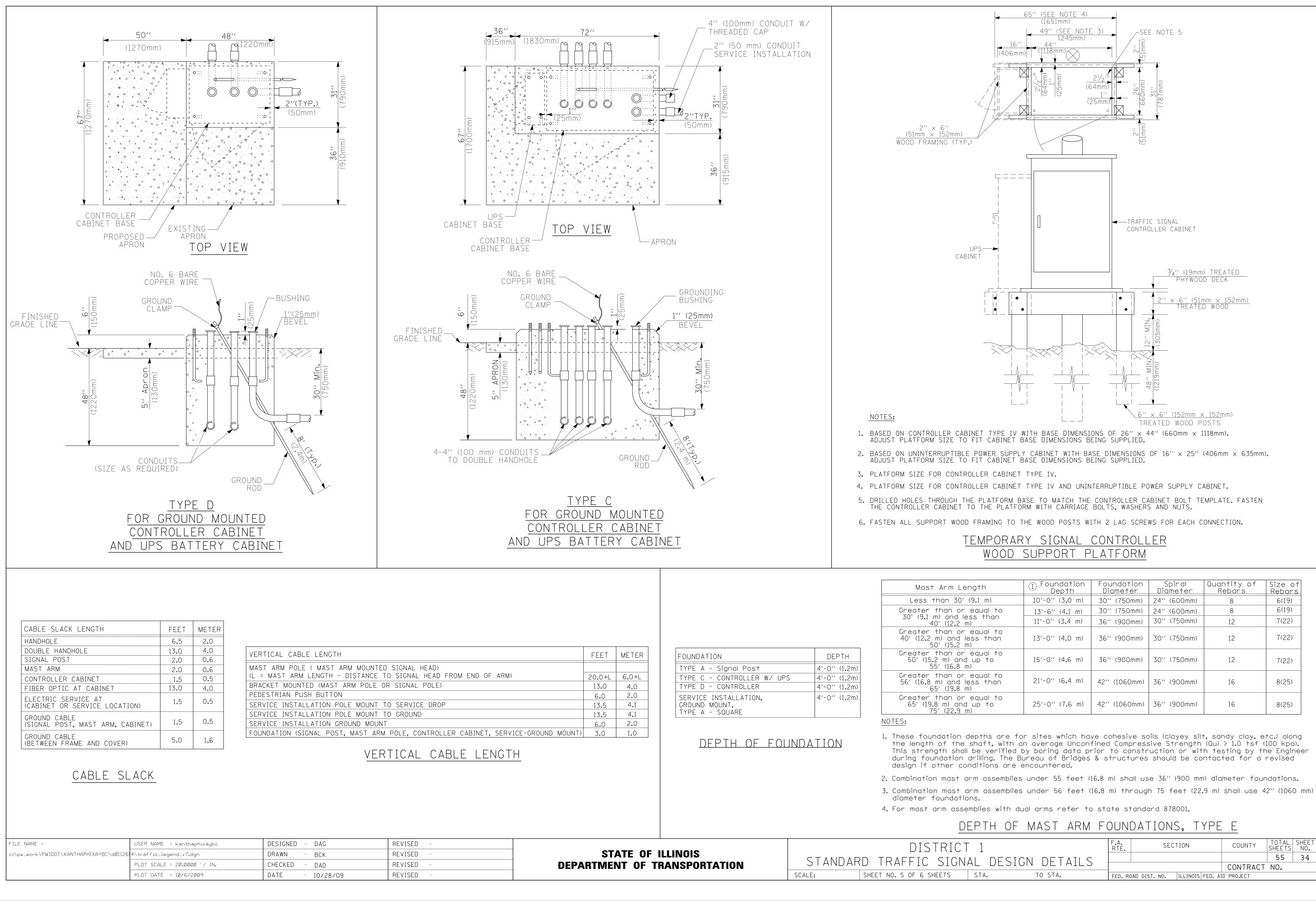
				··、	
 GROUND CABLE SH 6.5' (2.0m) SLACK 13' (4.0m) OF SLA 	OVED EQUAL) L BE BRONZE O ALL BE LOOPED SHALL BE PRO CK SHALL BE P	3/4" (20mm) HEAV (BURNDY TYPE GRO OVER HOOKS IN THE VIDED IN SINGLE HAN ROVIDED IN DOUBLE OVIDED BETWEEN FRA	C OR APPROVED OVED. E HANDHOLES NDHOLES HANDHOLES.	EQUAL)	AMP
ACCESS COVER GROUND LUG (BURNDY TYPE KC, K2C, OR APPROVED EQUAL) NT GROUNDING GROUND (GREEN COLOR CODED)	E / POST-C	1/C #6 GF HEAVY DUT EXOTHERMIC OR U.L. AP (TYPICAL F ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ■ ■ ■ ■ ■ ■	PROVED CONNEC OR ALL GROUNE 	COLOR CO CLAMP, TOR. () RODS)	DED)
 Г 1	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

JAL DESIGN DETAILS 55 32 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CT 1	F.A. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.							55	32
STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	AL DESIGN DETAILS					CONTRACT	NO.	
	STA. TO STA.	FED. RC)AD DIST. NO.	ILLINOIS	FED. AI	D PROJECT		



				• 4	. 0	
CALE:	SHEET	NO.	4	OF	6	SHE

	С	HEIGHT	WEIGHT
)	19′′(483mm)	7'' (178mm) - 12'' (300mm)	53 lbs (24kg)
m)	21 . 5′′(546mm)	7'' (178mm) - 12'' (300mm)	68 lbs (31 kg)
n)	26′′(660mm)	7'' (178mm) - 12'' (300mm)	81 lbs (37 kg)
n)	37''(940mm)	7'' (178mm) - 12'' (300mm)	126 lbs (57 kg)



CABI F	NIK	
	 AUN	

FILE NAME =	USER NAME = kanthaphıxaybc	DESIGNED - DAG	REVISED -
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d01126	4\traffıc_legend_v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ′ / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)′ (9 . 1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6'' (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3.4 m)	36′′ (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up to m)	25'-0'' (7 . 6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

Τ	1	F.A. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
I	AL DESIGN DETAILS						55	34
1	AL DESIGN DETAILS					CONTRACT	NO.	
	STA. TO STA.	FED. RC	AD DIST. NO.	ILLINOIS F	ED. AI	D PROJECT		

.pw_work\PWIDOT\KANTHAPHIXAYBC\d0112614\traff1c_legend_v7.dgn PLOT_SCALE = 20.0000 ′ /	ĪN.	DRAWN - BCK CHECKED - DAD	REVISED REVISED
E NAME = USER NAME = kanthaphixa	uybc	DESIGNED - DAG/BCK	REVISED
WIRELESS ACCESS POINT	R		
NIRELESS DETECTOR SENSOR	R(W)		(W)
PAN, TILT, ZOOM CAMERA	R PTZJ	[PTZ]	PTZ I
VIDEO DETECTION ZONE	~ ×		
VIDEO DETECTION CAMERA	R [V]]		
MICROWAVE VEHICLE SENSOR	R M		
PREFORMED DETECTOR LOOP			P
DETECTOR LOOP, TYPE I			
ILLUMINATED SIGN 'NO RIGHT TURN''	R		
ILLUMINATED SIGN 'NO LEFT TURN''	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R	APS	APS
PEDESTRIAN PUSHBUTTON DETECTOR	R	0	۲
PEDESTRIAN SIGNAL HEAD	R -	-[]	-
'S DENOTES SOLAR POWER)	R O-D>''F''	O-► ''F''	••• [•] ′′ ′′′
SIGNAL HEAD OPTICALLY PROGRAMMED Flasher Installation	R →→`'P''		— — "₽"
SIGNAL HEAD WITH BACKPLATE	+D R		+►
NUMBERS INDICATE THE CONSTRUCTION STAGE)			
SIGNAL HEAD SIGNAL HEAD CONSTRUCTION STAGES	R -		2
GUY WIRE	R	>	>
BETTER) 45 FOOT (13.7m) MINIMUM	R S	\sim	 ▲
SIGNAL POST TEMPORARY WOOD POLE (CLASS 5 OR	R O R	\odot	
ASSEMBLY AND POLE WITH PTZ CAMERA	PTZJ	PTZ	PTZ
ASSEMBLY AND POLE WITH LUMINAIRE STEEL COMBINATION MAST ARM	С <u>-</u> 2	0	
STEEL COMBINATION MAST ARM	R Y	- 	• •
STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0	
TELEPHONE CONNECTION P) POLE OR (G) GROUND MOUNT	RT	P T	P T
P) POLE OR (G) GROUND MOUNT	R		- ∎ -
JNINTERRUPTIBLE POWER SUPPLY Service installation,	UPS	EUPS	UPS
MASTER MASTER CONTROLLER	R		MMC
MASTER CONTROLLER	<u> </u>	EMC	MC
COMMUNICATIONS CABINET	C C	ECC	СС
RAILROAD CONTROL CABINET		R	
CONTROLLER CABINET	R		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM
EMERGENCY VEHICLE LIGHT DETECTOR	R	\bigotimes	-	ELECTRIC CABLE IN CONDUIT, TR NO. 14 1/C, UNLESS NOTED OTHE
CONFIRMATION BEACON	Ro-J	$) \rightarrow ($	•-(
HANDHOLE	R			COAXIAL CABLE
HEAVY DUTY HANDHOLE	R	Η	Н	VENDOR CABLE FOR CAMERA
DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE,
JUNCTION BOX	R		U	NO. 18 3 PAIR TWISTED, SHIELDE
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F
COMMON TRENCH COILABLE NONMETALLIC CONDUIT (EMPTY)			C T CNC	FIBER OPTIC CABLE NO. 62.5/125 (NUMBER OF FIBERS & TYPE TO NOTED ON PLANS)
SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER,
INTERSECTION ITEM		Ι	IP	(H) HANDHOLE, (P) POST, (M) MAS OR (S) SERVICE
REMOVE ITEM	R			CONTROLLER CABINET AND
RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED
ABANDON ITEM	А			STEEL MAST ARM POLE AND
12'' (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
12'' (300mm) RED WITH 8'' (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R G		STEEL COMBINATION MAST ARM 4
		R	R	AND POLE WITH LUMINAIRE AND Foundation to be removed
SIGNAL FACE		Y G	G	SIGNAL POST AND FOUNDATION TO BE REMOVED
		G ◀ Y ◀ G	← Y ← G	INTERSECTION & SAMPLING
				(SYSTEM) DETECTOR
SIGNAL FACE WITH BACKPLATE.		(R) Y	R Y	SAMPLING (SYSTEM) DETECTOR
"P" INDICATES PROGRAMMED HEAD		G Y	G Y	EXISTING INTERSECTION LOOP DE PROPOSED INTERSECTION AND SA
		(⊢ G) (′₽′′	G G G	EXISTING PREFORMED INTERSECT PROPOSED INTERSECTION AND SA
12'' (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND S (SYSTEM) DETECTOR
12'' (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) [
12'' (300mm) PEDESTRIAN SIGNAL HEAD International symbol, solid		€ €	₽ ★	
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL Symbol, with countdown timer			Image: CImage: Main CImage: C	
RADIO INTERCONNECT				RAILROAD CONTROL CABINET
RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		5	5	FLASHING SIGNAL CROSSING GATE
ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT			(1)	CROSSING GATE
NO. 6 SOLID COPPER (GREEN)				
I				

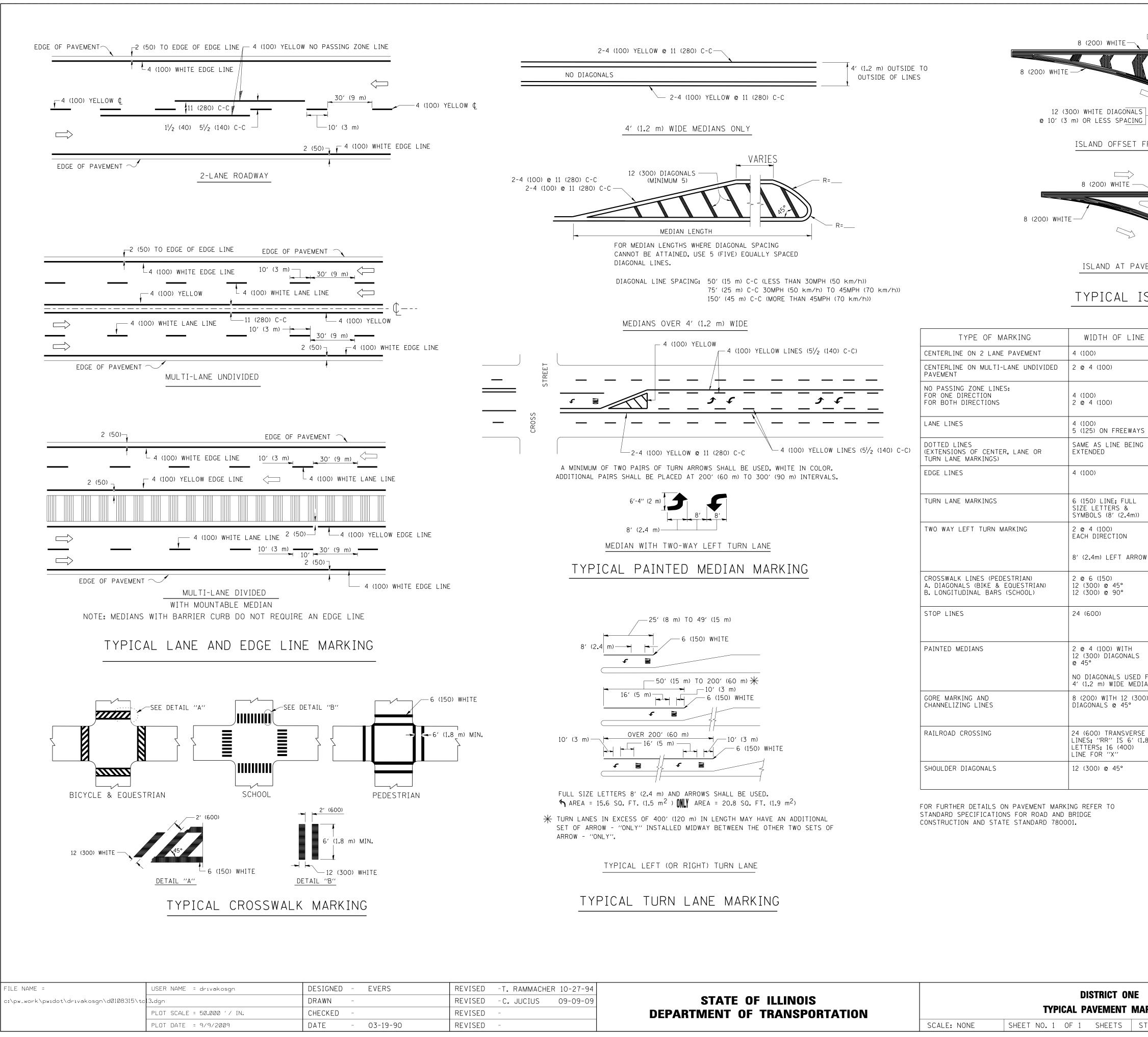
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S	DISTR Tandard traffic sig	
	SCALE: NONE	SHEET NO. 6 OF 6 SHEETS	

			THOROSED
T, TRACER, OTHERWISE		1	1
		C	C
			V
.E, IELDED		6	<u> 6 </u>
			-24F)
5/125, To be			———
MAST ARM,		C ,	
D	RCF		
D	RMF		
	MF		
	ИF 		
ION	RMF O		
			IS
OR			S
OP DETECTOR ID SAMPLING (SYSTEM) DETECTOR			
SECTION LOOP DETECTOR ID SAMPLING (SYSTEM) DETECTOR			
ND SAMPLING			PIS
EM) DETECTOR			[PS]
RAILROAD S	YMB	OLS	
		EXISTING	PROPOSED
Г		R	R
Γ ARM			
		XoX XoX>	X-X X-X
RICT 1 SIGNAL DESIGN DETAILS	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO. 55 35
S STA. TO STA.	FED. RC	DAD DIST. NO. ILLINOIS FED.	CONTRACT NO.

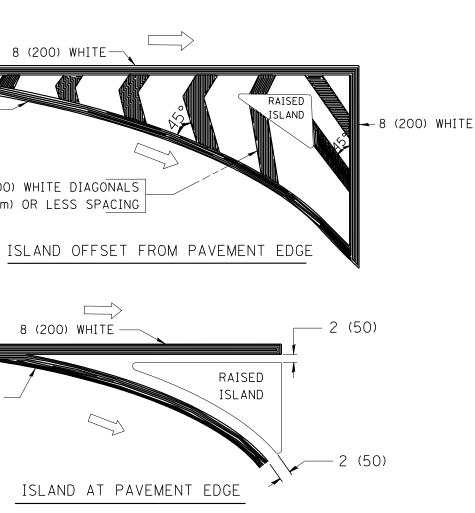
REMOVAL

EXISTING

PROPOSED



RAMMACHER	10-27-94
JUCIUS	09-09-09

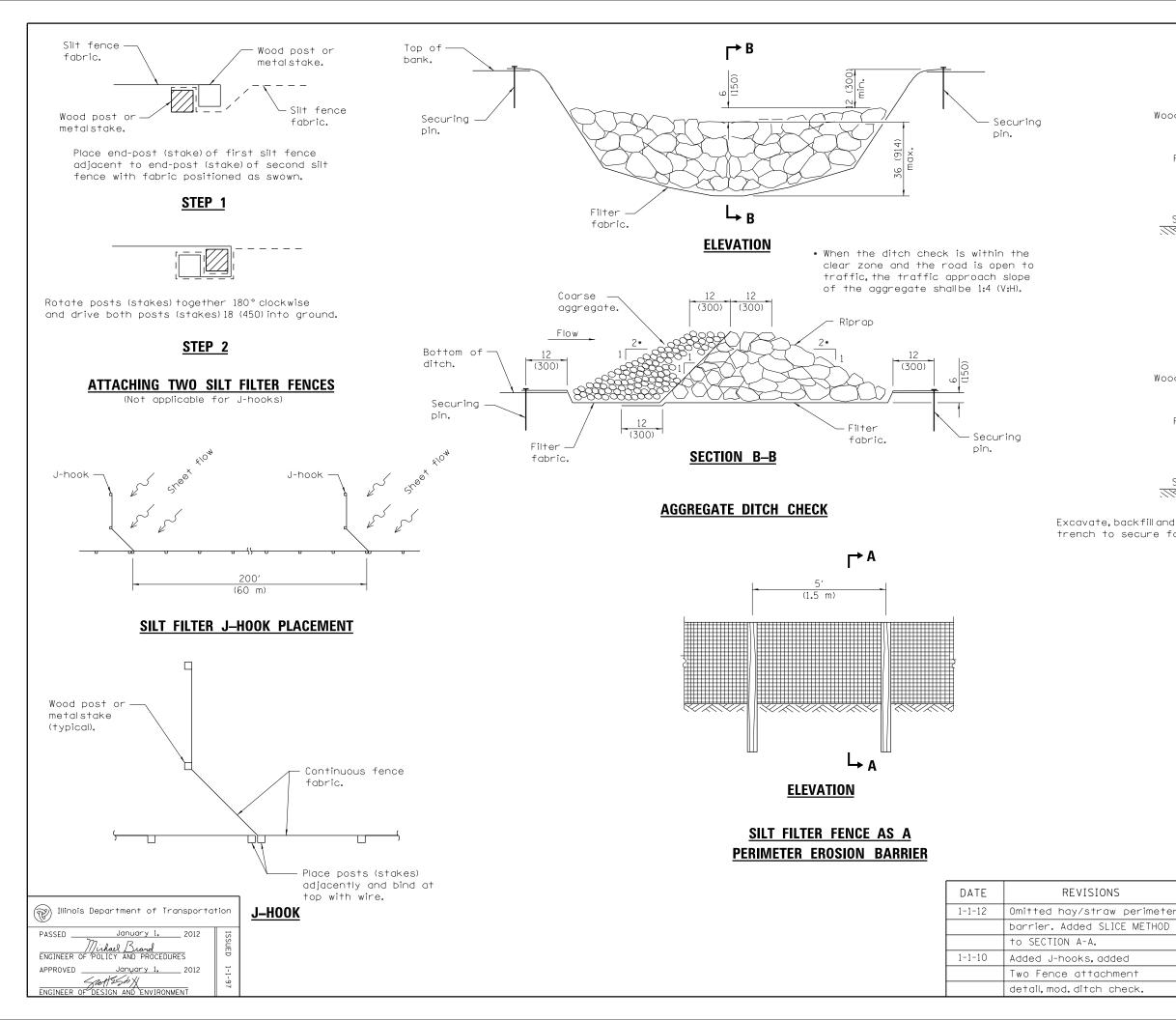


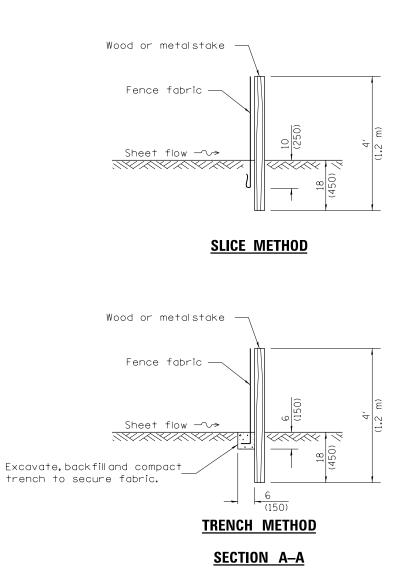
TYPICAL ISLAND MARKING

LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5 ¹ / ₂ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2′ (600) LINE WITH 6′ (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
ULL & .4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 ¹ /2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	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
TH NALS	SOLID	YELLOW: Two way traffic	11 (280) C-C FOR THE DOUBLE LINE
USED FOR MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	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))
VERSE 6′(1.8 m) DO)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: ''R''=3.6 SQ. FT. (0.33 m ²) EACH ''X''=54.0 SQ. FT. (5.0 m ²)
	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

ONE			F.A Rte.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				55		36		
TMARKINGS			TC-13	CONTRACT	NO.			
	STA.	TO STA.	FED. ROAD	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





GENERAL NOTES

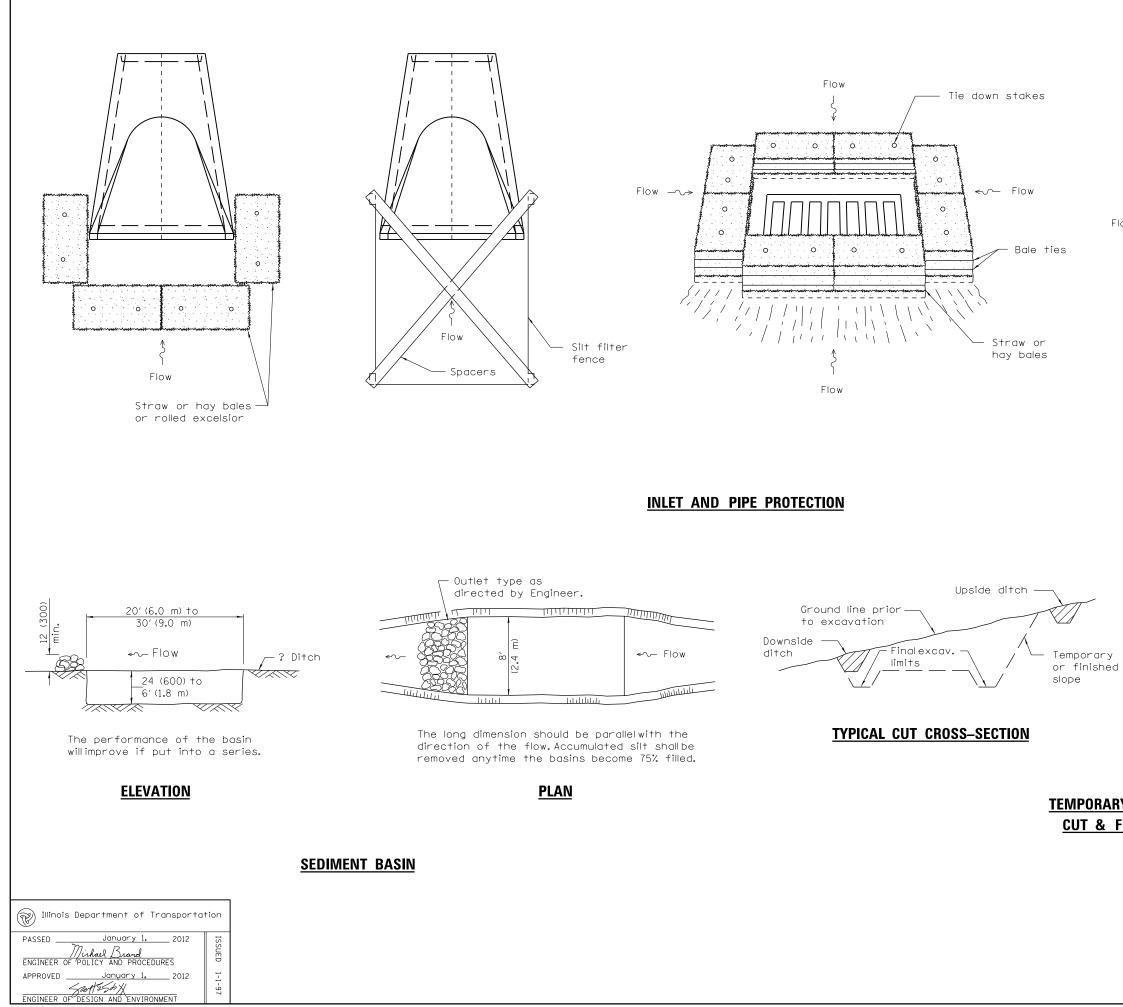
The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

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

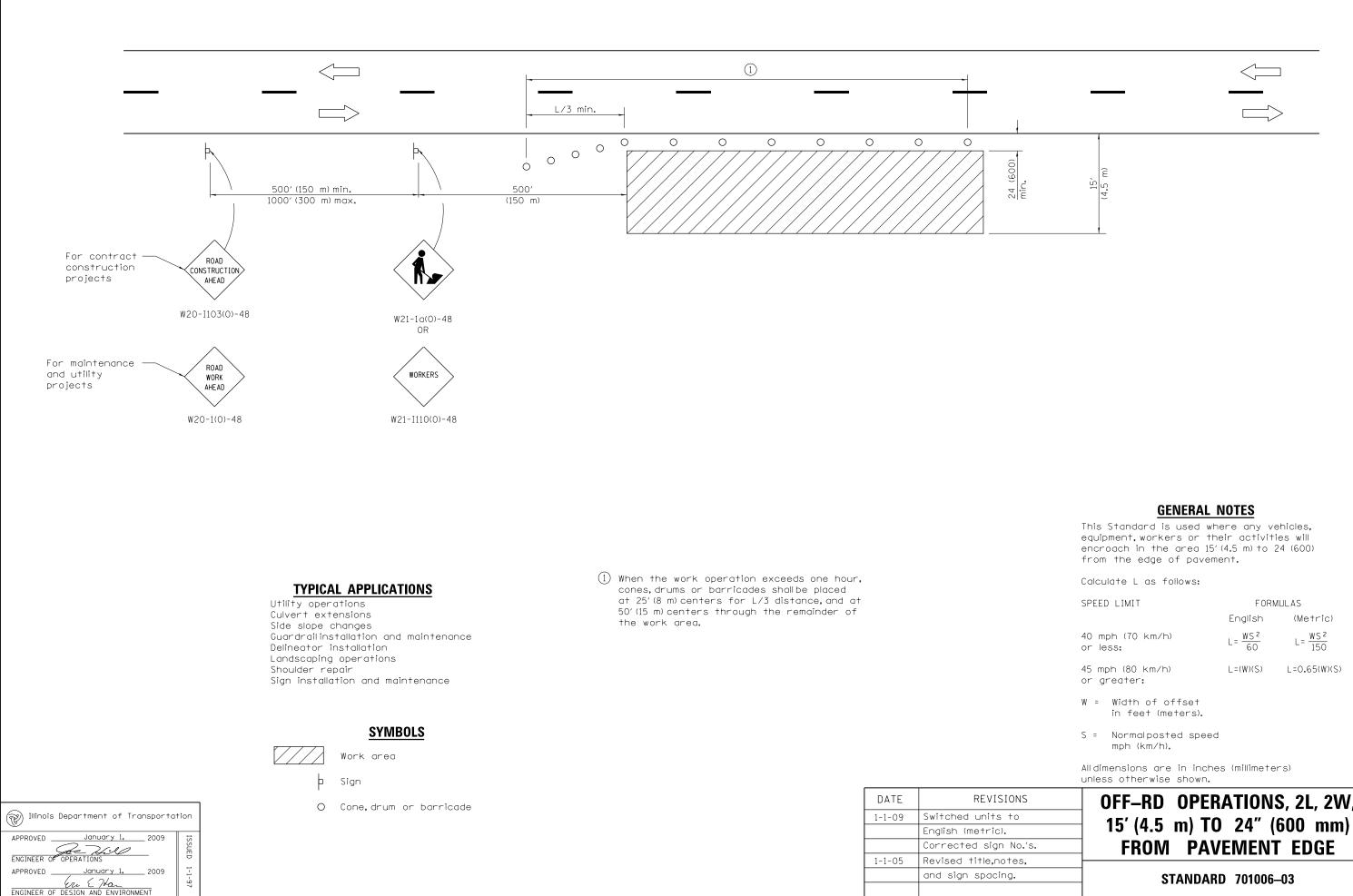
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

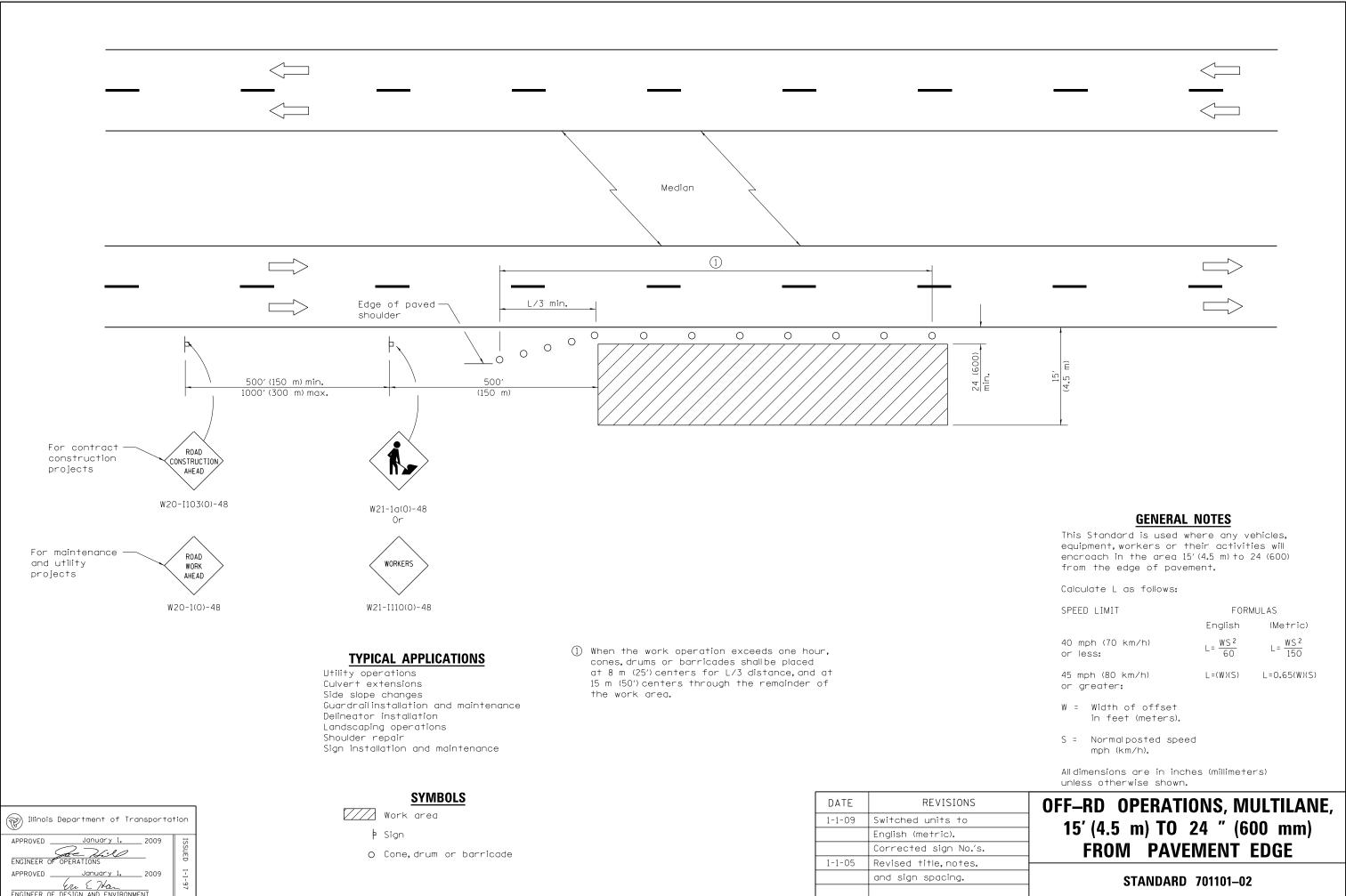
STANDARD 280001–06

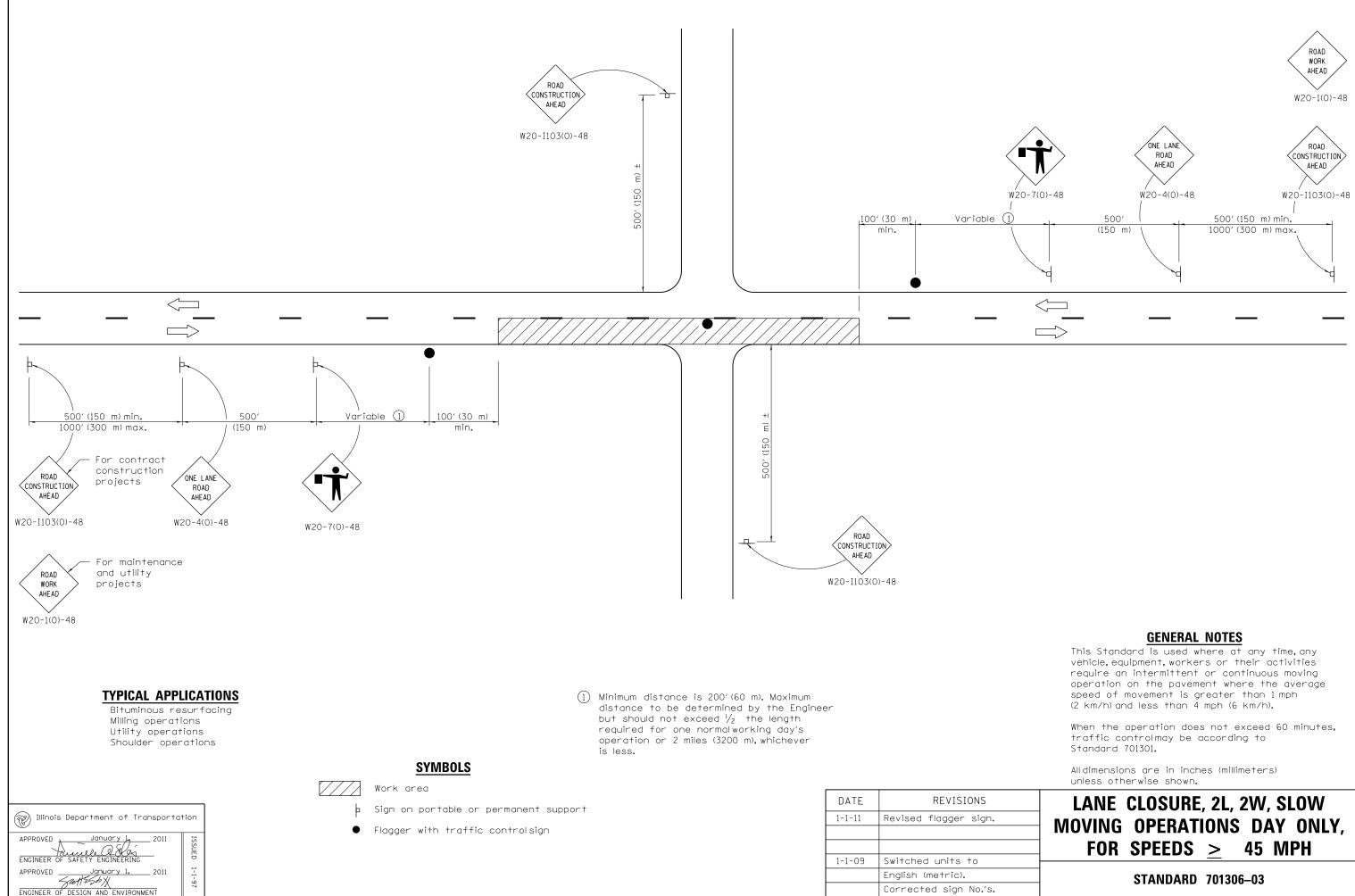


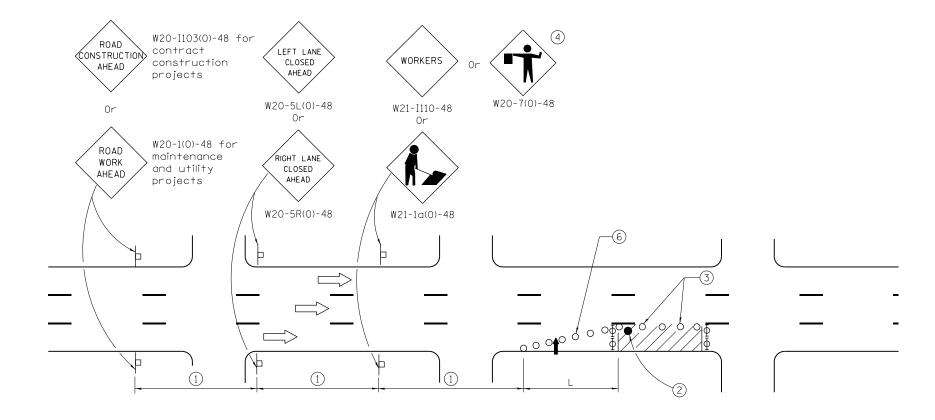
Silt filter — fence	Manhole with open grate
/	
low -~> K	
	Spacers
Fin	alembankment limits —
Tempora	-y Temporary toe ditch
toe ditc	
	TYPICAL FILL CROSS-SECTION
Y DITCHES F	OR
FILL SECTION	
ſ	
	TEMPORARY EROSION
·	CONTROL SYSTEMS (Sheet 2 of 2)
	STANDARD 280001-06



SIONS	OFF-RD OPERATIONS, 2L, 2W,	
s to		
c).	─ 15′ (4.5 m) TO 24″ (600 mm)	
jn No.'s.	FROM PAVEMENT EDGE	
notes,		
ing.	STANDARD 701006–03	







SIGN SP	ACING
Posted Speed	Sign Spacing
55	500′(150 m)
50-45	350′(100 m)
<45	200′(60 m)

Illinois Department of Transporta	tion
APPROVED January 1, 2011 Aucult O. Star ENGINEER OF SAFETY ENGINEERING	ISSUED
APPROVED Janyary 1, 2011 Statt 55 dr X, ENGINEER OF DESIGN AND ENVIRONMENT	1-1-97

SYMBOLS

- Arrow board
- Cone,drum or barricade 0
- Sign on portable or permanent support
- Work area
 - φ Barricade or drum with flashing light
- d l Type III barricade with flashing lights
- Flagger with traffic controlsign. •

- 1 Refer to SIGN SPACING TABLE for distances.
- 2 Required for speeds > 40 MPH
- (3) Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50'(15 m)centers.When drums or Type I or Type II barricades are used, the intervalbetween devices may be doubled.
- (4) Use flagger sign only when flagger is present.
- 5) For approved sideroad closures.
- 6 Cones, drums or barricades at 20′(6 m) in taper.

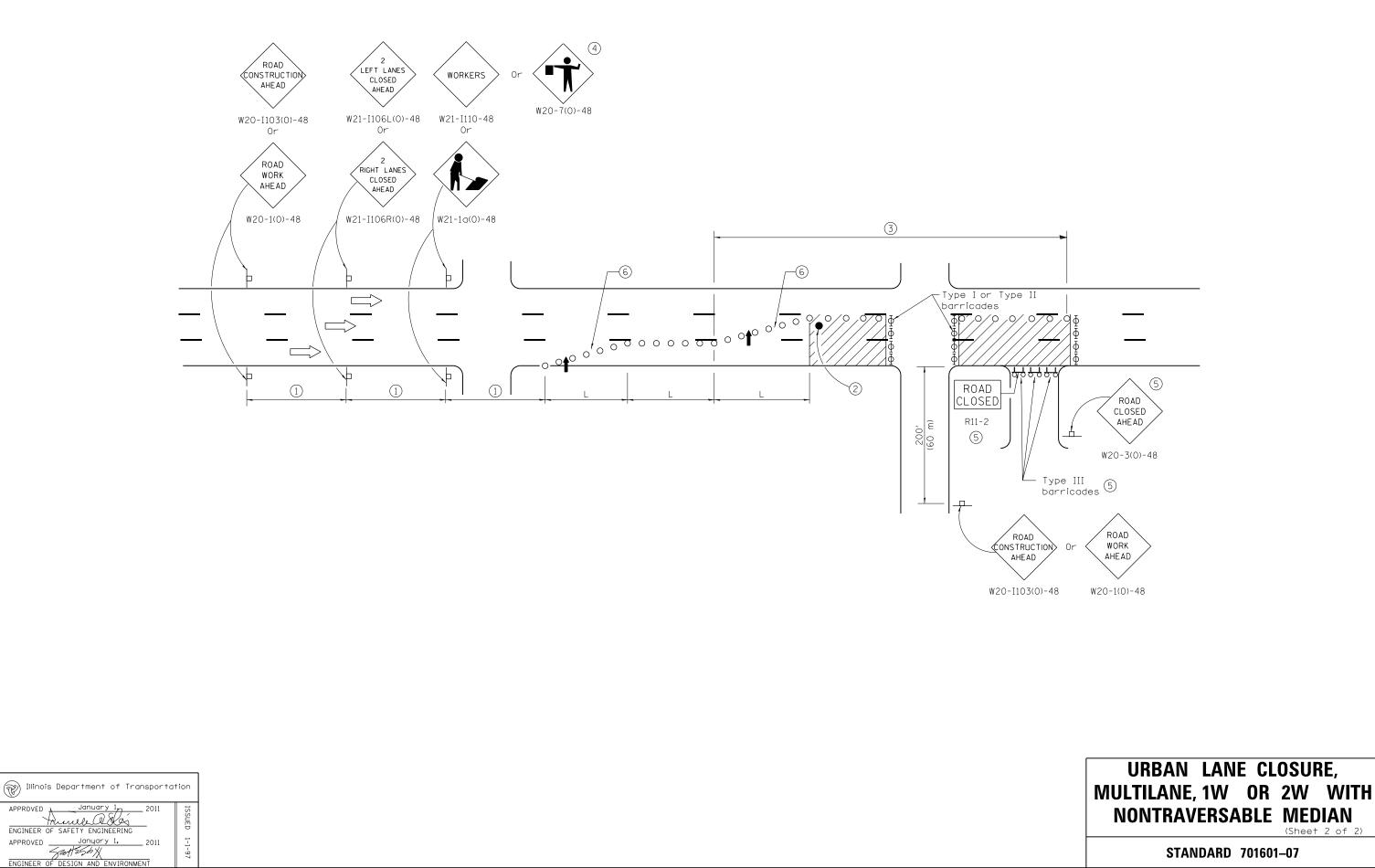
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in urban areas.

Calculate L as follows:

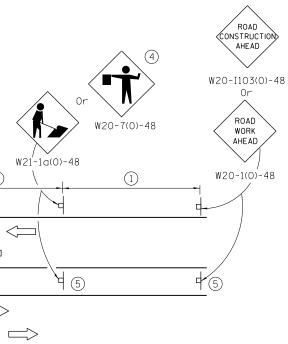
STANDARD	701601	07
NONTRAVERS	ABLE	(Sheet 1 of 2)
 MULTILANE, 1W		
URBAN LAN	VE CL	OSURE,
Alldimensions are in inches unless otherwise shown.	(millimete	ers)
S = Normalposted speed mph (km/h).		
W = Width of offset in feet (meters).		
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
SPEED LIMIT		MULAS (Metric)



ENGINEER OF DESIGN AND ENV

STANDARD 701601–07

ROAD CONSTRUCTION AHEAD W20-I103(0)-48 Or W0RK AHEAD W20-1(0)-48 W20-I100 AHEAD W20-1(0)-48 W20-I100 AHEAD W20-I100 AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I103(0)-48 UCOS AHEAD W20-I100 AHEAD W20-I100 (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS AHEAD (COS (COS (COS (COS (COS (COS (COS (COS	ANE D 3(0)-48 W21-1a(0)-48 W21-1a(0)-48 () () () () () () () () () ()		SHOULDER OPERATIONS Type I or Type II barricade 1 4 - 2 3 - 4 - 2
	LEFT TURN LANE OR CENTER MEDIAN OPERATIONS (1) Refer to SIGN SPACING TABLE for distance		CORNER ISLAND OPERATIONS
SIGN SPACING Posted Speed Sign Spacing 55 500' (150 m) 50-45 350' (100 m) <45 200' (60 m)	 for distance. (2) Required for speed > 40 mph. (3) Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled. 		
	 (4) Use flagger sign only when flagger is present. (5) Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes. (6) Cones, drums or barricades at 20' (6 m) 		7 W20-7(0)-48 W21-1a(0)-48 W21-1a(0)-48 RIGHT LANE CLOSED AHE AD W20-5(0)-48
	centers in taper. Advanced arrow board required for speeds > 45 mph. SYMBOLS	<u> </u>	ROAD CONSTRUCTION AHEAD W20-I103(0)-48 W20-1(0)-48 for
Illinois Department of Transportation APPROVED January 1. 2012 ENGINEER OF SAFETY ENGINEERING APPROVED January 1. 2012 January 1. 2012 Ja	 Work area O Cone, drum or barricade ign on portable or permanent support Arrow board Barricade or drum with flashing light Flagger with traffic control sign 		milling milling for contract maintenance and utility projects projects DATE REVISIO 1-1-12 Revised flagger 0mitted W21-II10 1-1-11 Added advanced board and note



GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT

or less:

FORMULAS (Metric) English

 $L = \frac{WS^2}{60}$ $L = \frac{WS^2}{150}$ 40 mph (70 km/h) L=(W)(S) L=0.65(W)(S) 45 mph (80 km/h) or greater:

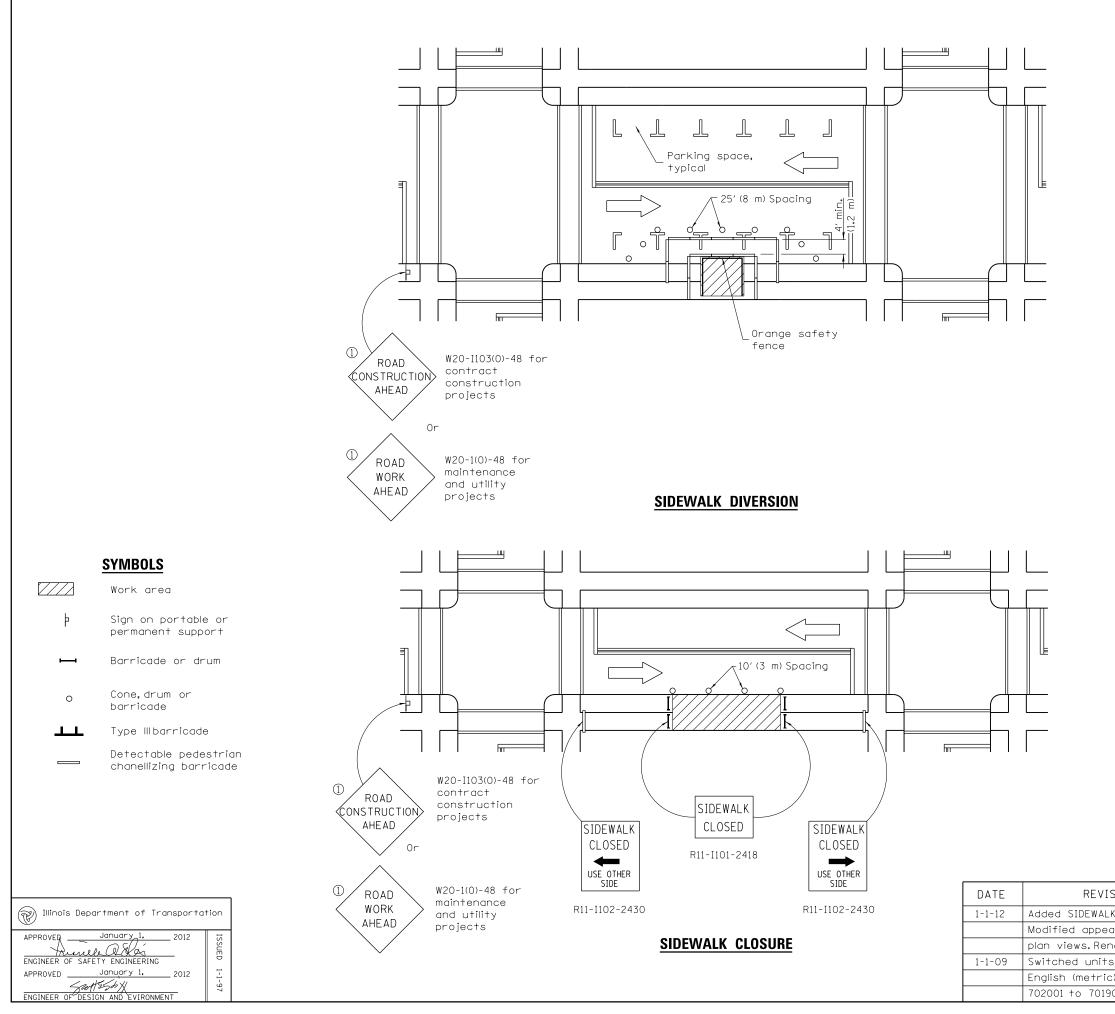
- W = Width of offset in feet (meters).
- S = Normalposted speed mph (km/h).

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

IONS		
r	sign.	
0	sign.	
d	arrow	
е	7.	

URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701–08



 Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control& Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

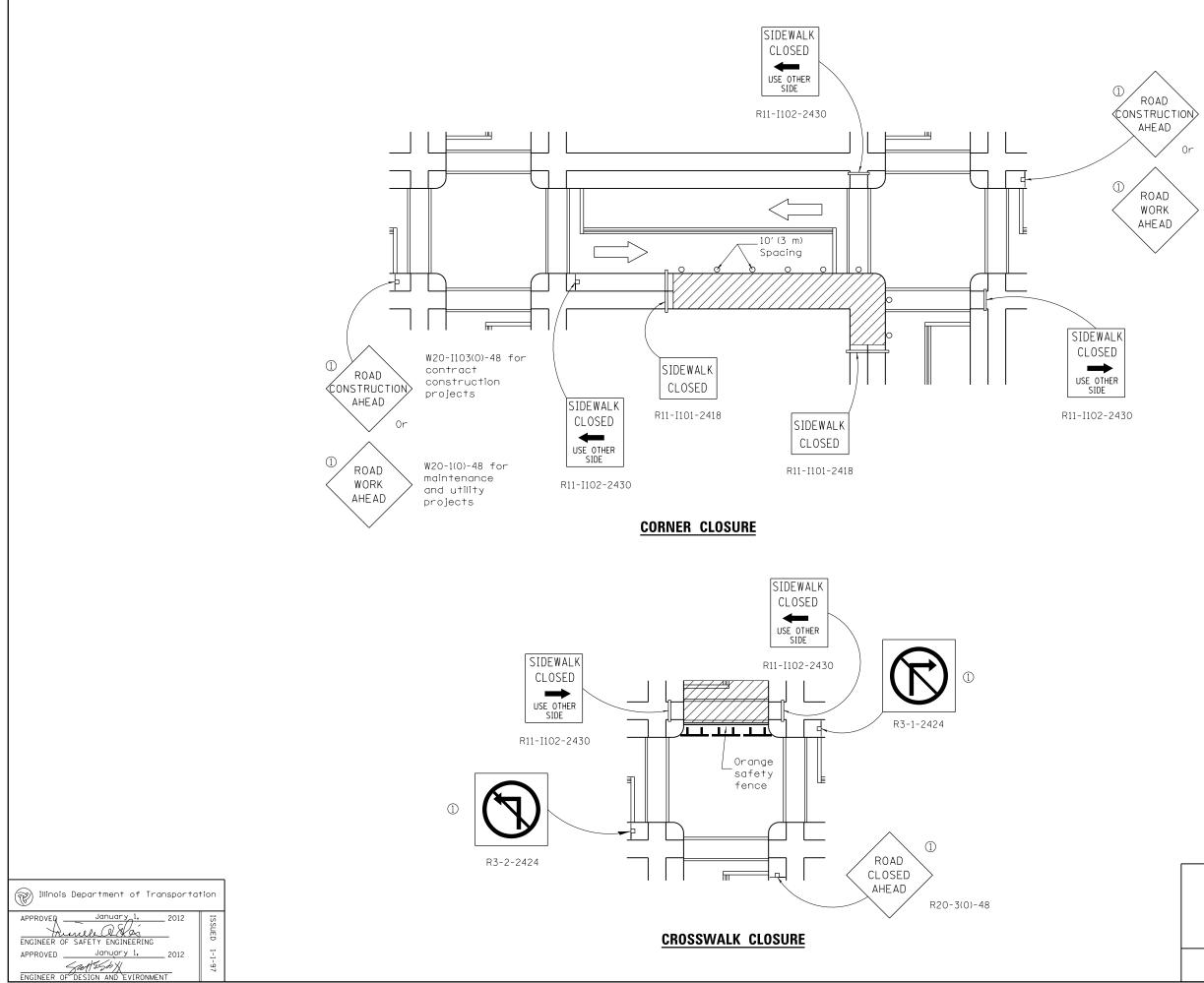
All dimensions are in inches (millimeters) unless otherwise shown.

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SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801–05



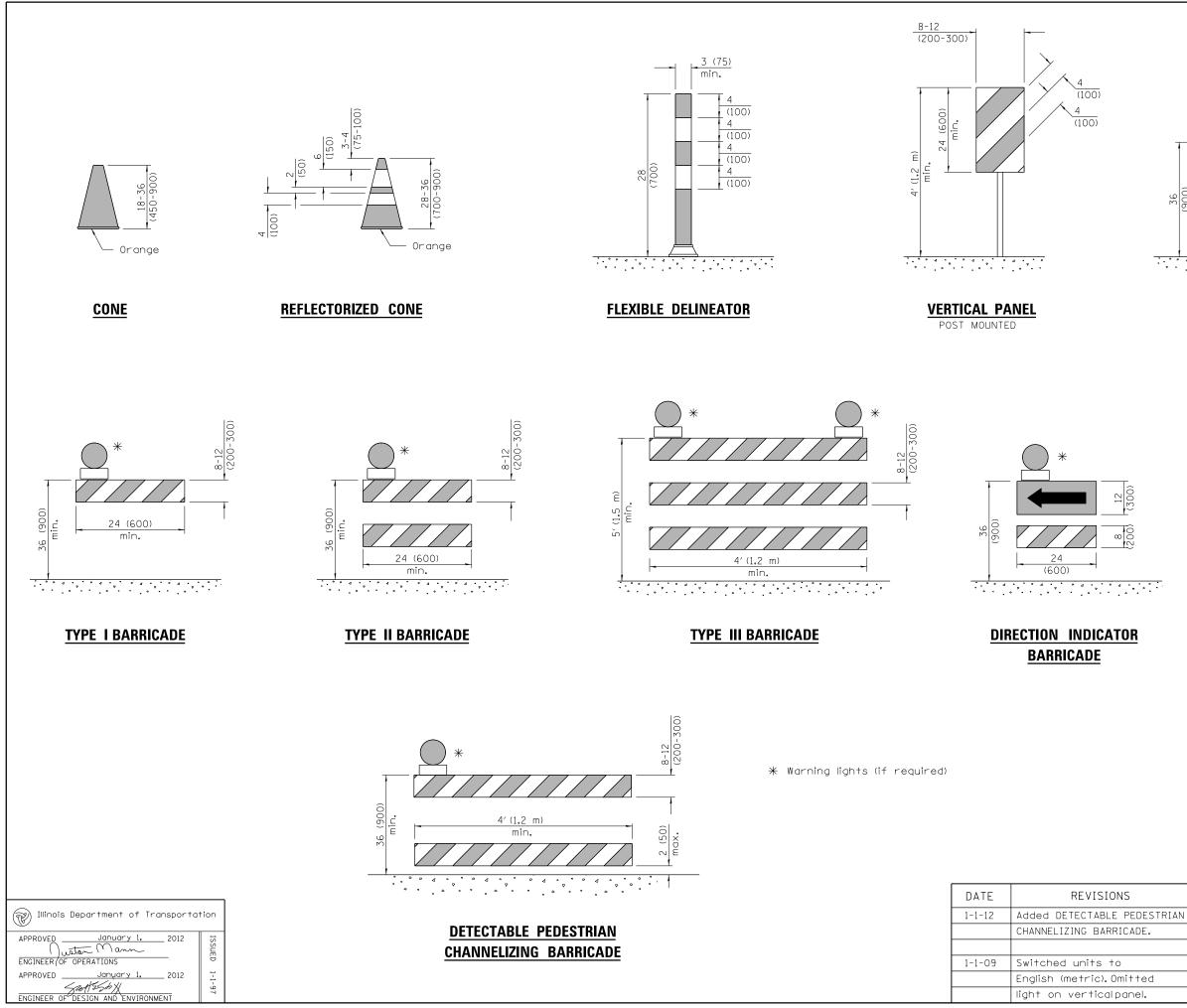
W20-I103(0)-48 for contract construction projects

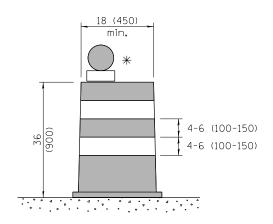
W20-1(0)-48 for maintenance and utility projects

SIDEWALK, CORNER OR **CROSSWALK CLOSURE**

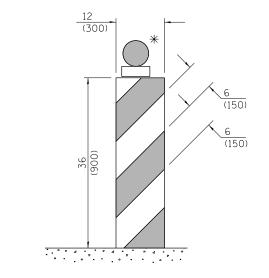
(Sheet 2 of 2)

STANDARD 701801–05





DRUM



VERTICAL BARRICADE

GENERAL NOTES

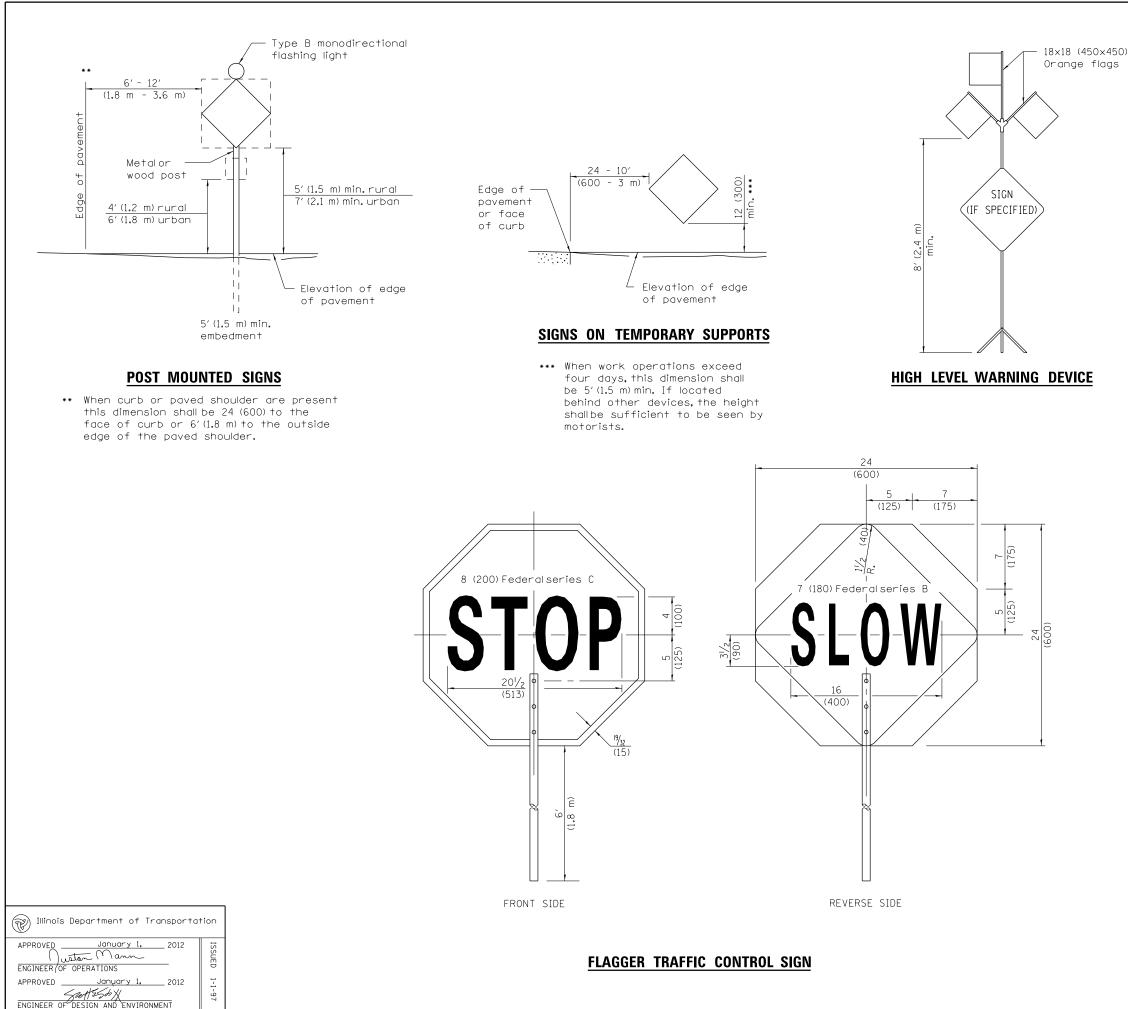
Allheights shown shallbe measured above the pavement surface.

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

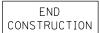
TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901–02



	ROA	
CONS	ΤRι	JCTION
NEXT	Х	MILES



G20-1(0)-6036

G20-2a(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500'(150 m) in advance of project limits.

END CONSTRUCTION sign shallbe erected at the end of the job unless another job is within 2 miles (3200 m).

Dualsign displays shallbe utilized on multilane highways.

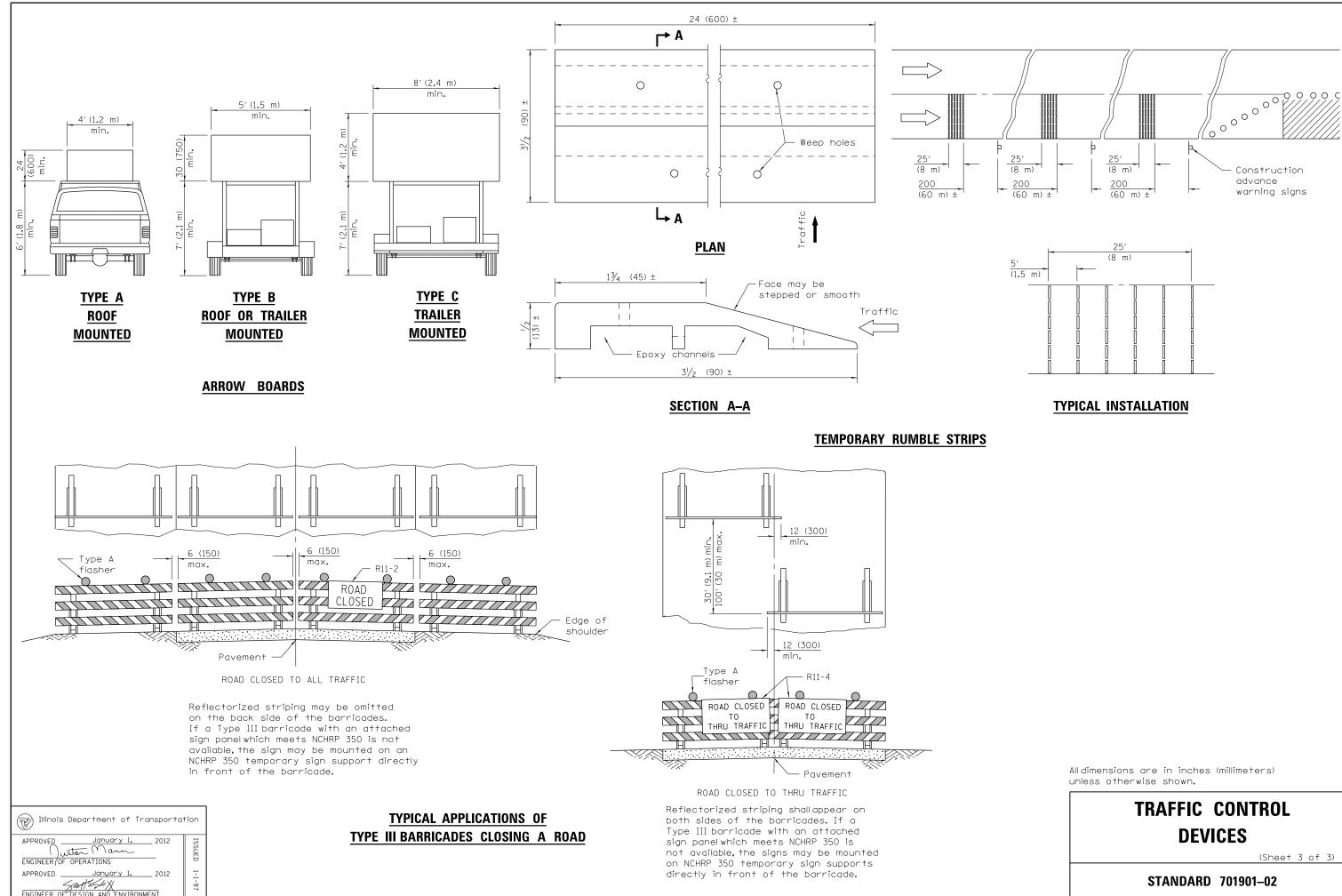
WORK LIMIT SIGNING

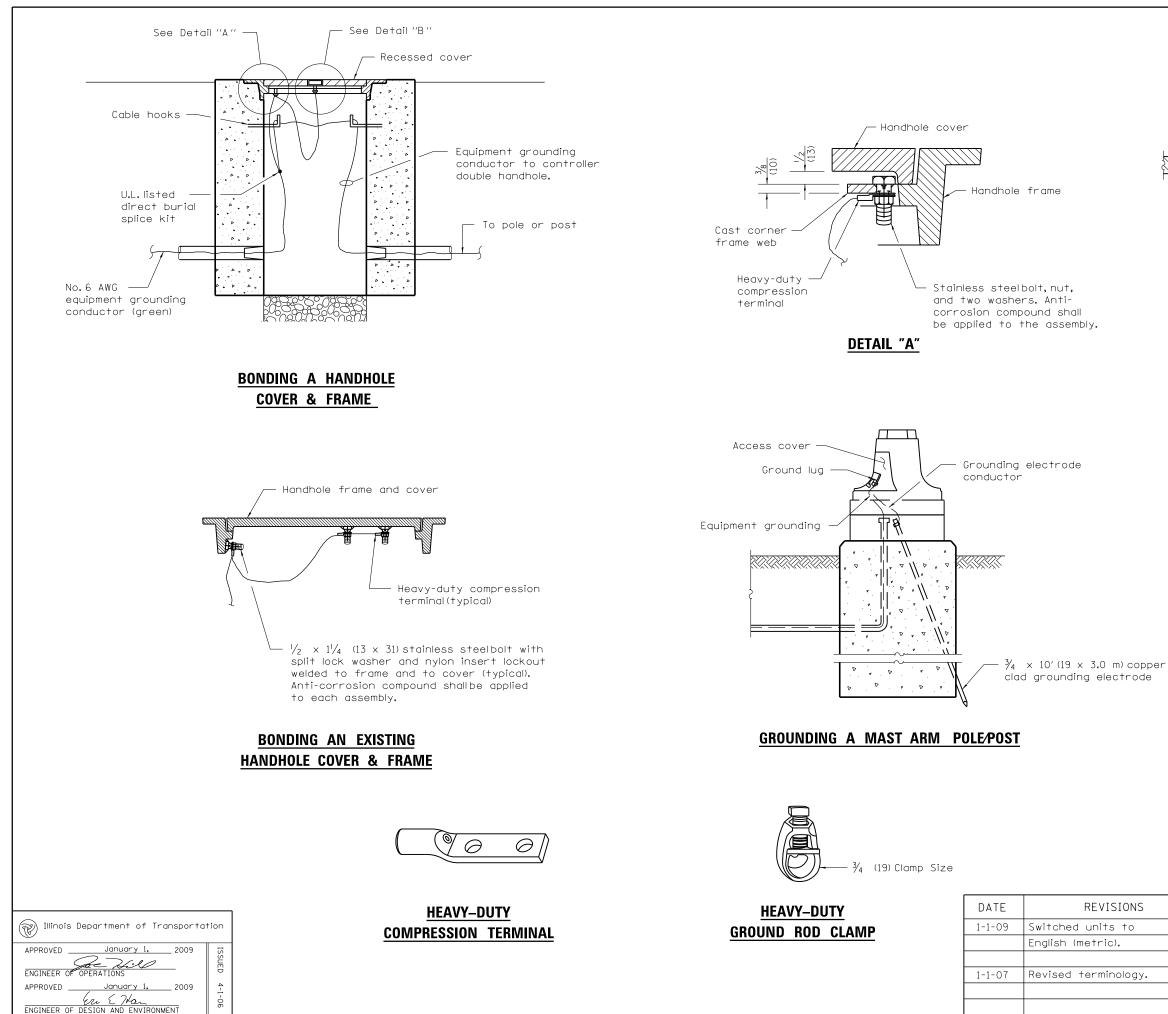
All dimensions are in inches (millimeters) unless otherwise shown.



(Sheet 2 of 3)

STANDARD 701901–02





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TRAFFIC SIGNAL GROUNDING & BONDING

STANDARD 873001-02

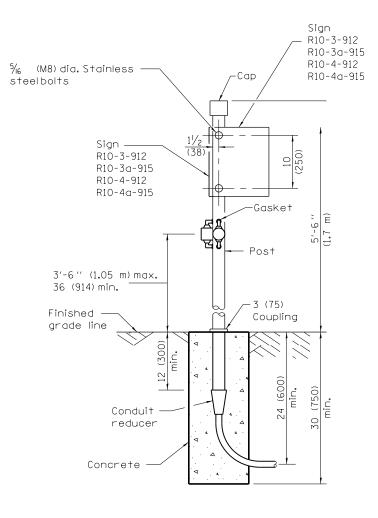
All dimensions are in inches (millimeters) unless otherwise shown.

DETAIL "B"

Heavy-duty compression terminal with stainless steelnut. Anti-corrosion compound shallbe applied

to the assembly.

- Handhole cover handle



PEDESTRIAN ONE PUSH BUTTON POST

‰ (M8) dia. Stainless steel bolts

Sign <u>----</u> R10-3-912

R10-3a-915

R10-4-912 R10-4a-915

3'-6'' (1.05 m) max. 36 (914) min.

Finished

grade line

Gasket

12

Conduit

reducer

Concrete

Сар

10 (250)

– Post

-3 (75)

Coupling

24 (600)

750)

0

A

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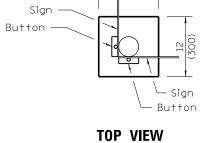
5'-6 (1.7 n

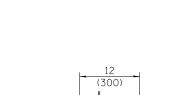
PEDESTRIAN TWO PUSH BUTTON POST

DATE	REVISIO
1-1-12	Revised sign ins
	for one and two
	stations.
1-1-09	Switched units t
	English (metric).

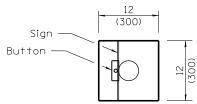
(P) Illinois Department of Transportation						
APPROVED <u>January 1.</u> 2012 مستلقب Mann <u></u> ENGINEER (OF OPERATIONS	ISSUED					
APPROVED <u>January 1,</u> 2012 Sant Sob X ENGINEER OF DESIGN AND ENVIRONMENT	1-1-07					

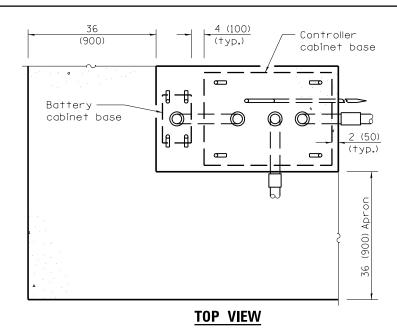
	TYPICAL TWO BUTTONS
	All dimensions are in inches (millimeters) unless otherwise shown.
ONS	
stallation	PEDESTRIAN PUSH
vo button	BUTTON POST
+0	-
	STANDARD 876001–02

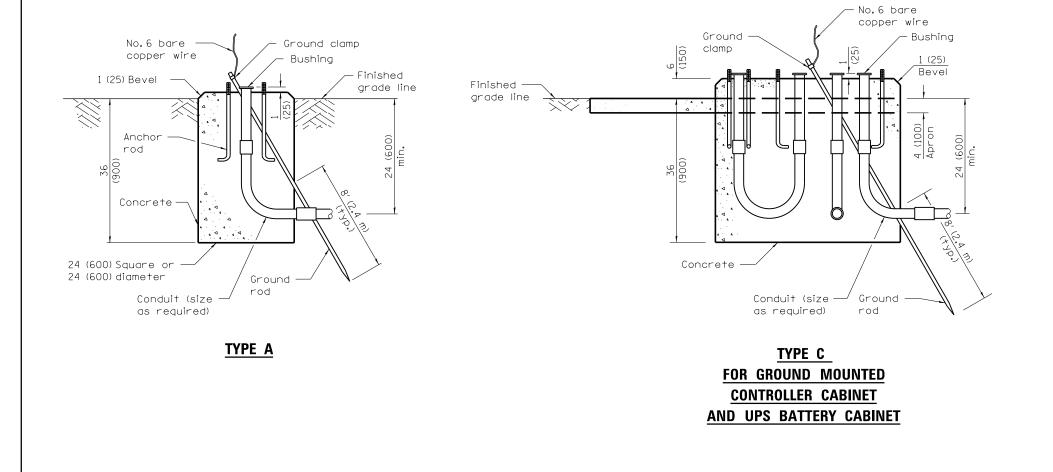




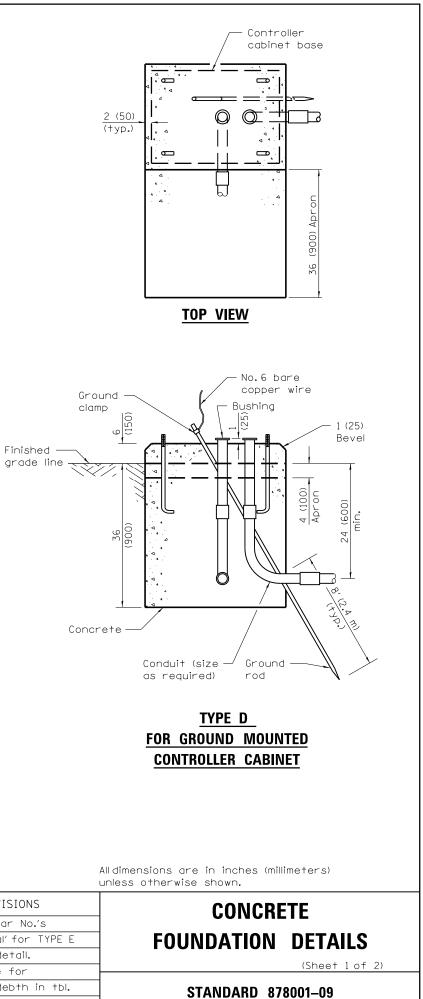


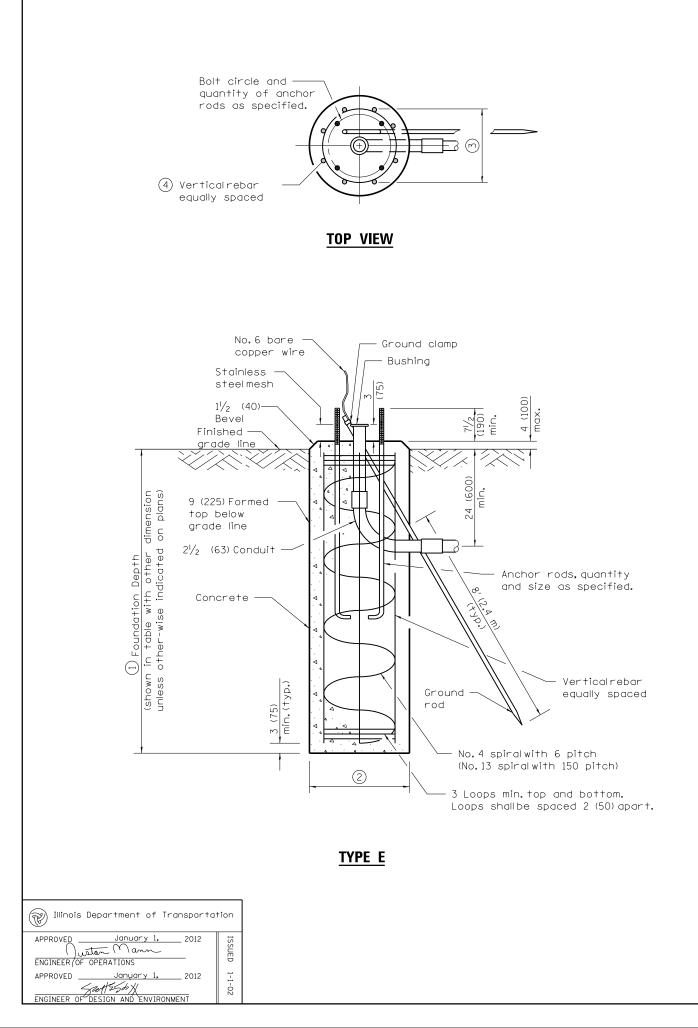






	DATE	REVISIONS
Illinois Department of Transportation	1-1-12	Replaced rebar No.'s
APPROVED January 1, 2012		with 'Vertical' for TYPE E
ALTHOULD THE ATTACK		foundation detail.
ENGINEERIUF OFERATIONS	1-1-10	Revised note for
APPROVED January 1, 2012		foundation debth in tbl.
ENGINEER OF DESIGN AND ENVIRONMENT		Revised sizes of rebars.





Mast Arm Length	 Foundation Depth * 	2 Foundation Diameter	(3) Spiral Diameter	(4) Quantity of Rebars	Size of Rebars
Less than 30′(9.1 m)	10'-0'' (3.0 m)	30 (750)	24 (600)	8	6 (19)
Greater than or equal	13'-6'' (4.1 m)	30 (750)	24 (600)	8	6 (19)
to 30'(9.1 m) and less than 40'(12.2 m)	11'-0'' (3.4 m)	36 (900)	30 (750)	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 (900)	30 (750)	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 (900)	30 (750)	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 (1060)	36 (900)	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 (1060)	36 (900)	16	8 (25)

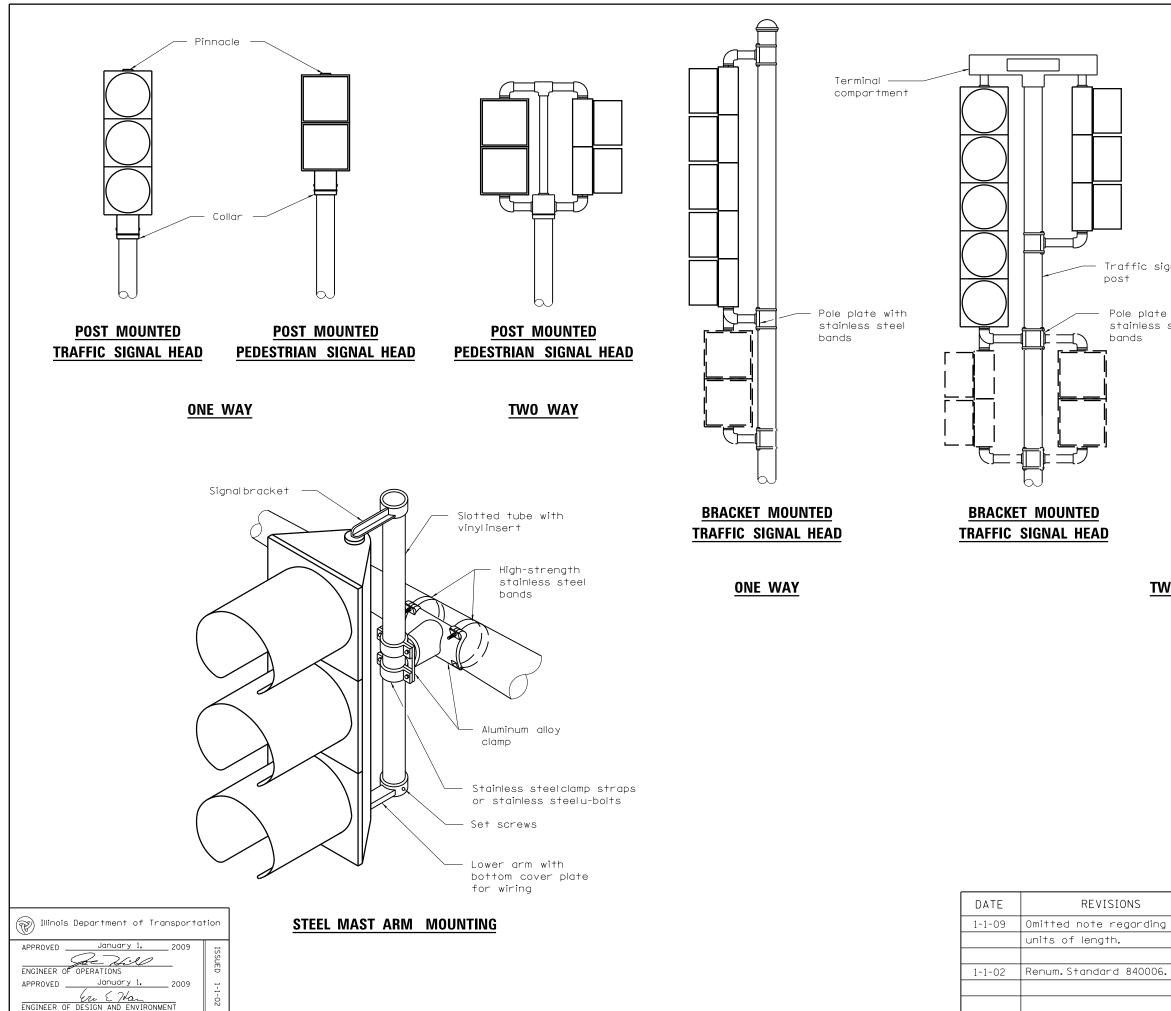
* For standard and combination mast arm assemblies. Foundation depths for standard dualmast arms with the longest arm length upto and including 55' (16.8 m) shall be increased by 1' (0.3 m) of that shown in the table, based on the longer of the two arms.

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.

CONCRETE FOUNDATION DETAILS

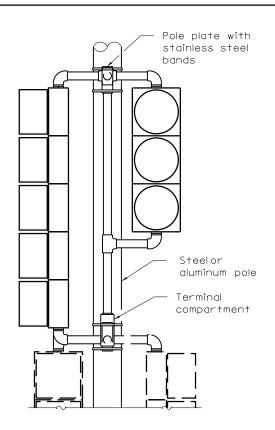
(Sheet 2 of 2)

STANDARD 878001-09



Traffic signal

Pole plate with stainless steel bands

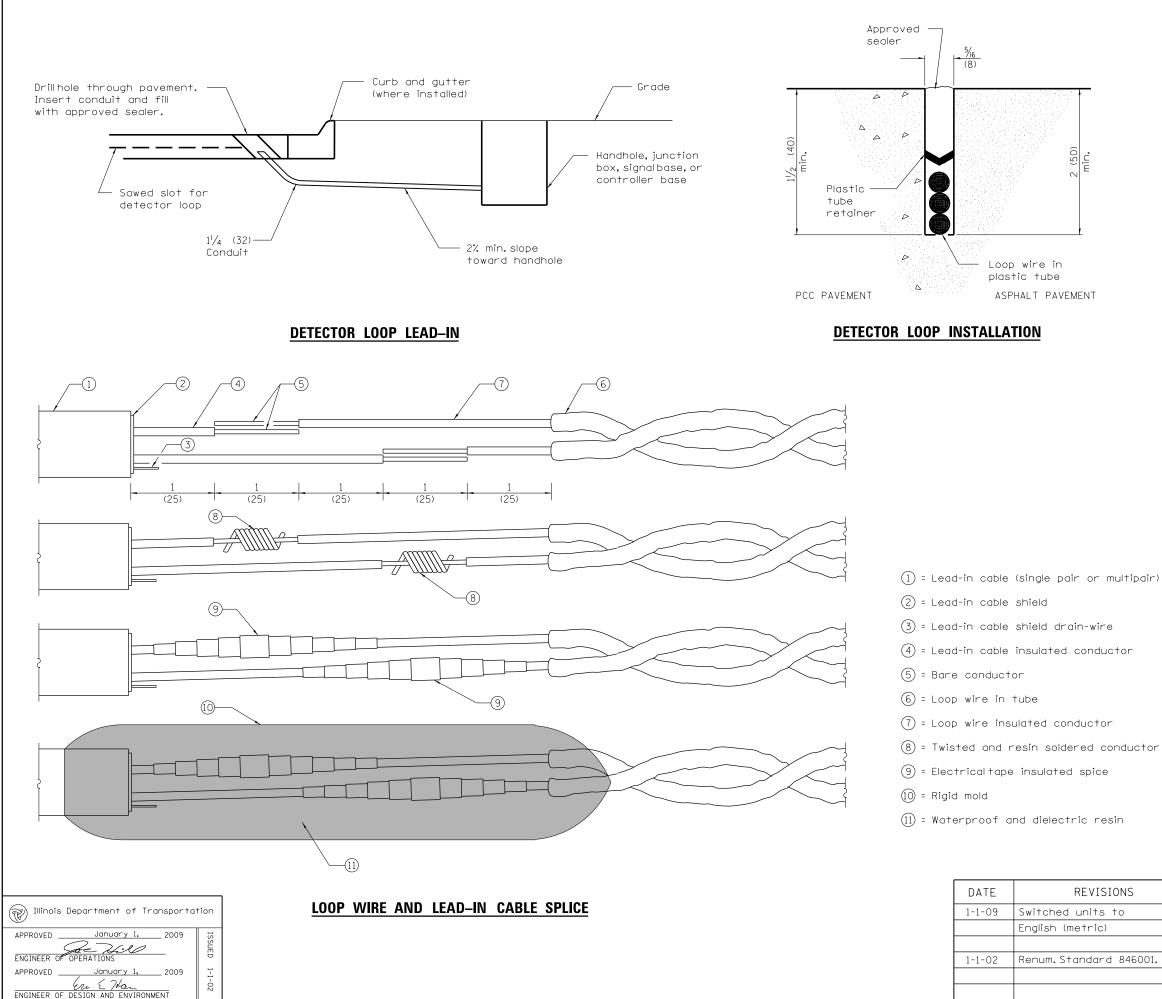


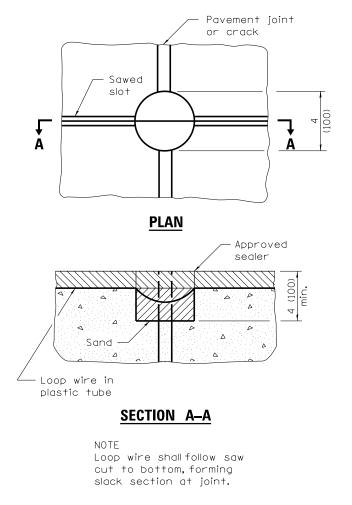
BRACKET MOUNTED TRAFFIC SIGNAL HEAD

TWO WAY

TRAFFIC SIGNAL MOUNTING DETAILS

STANDARD 880006-01





DETECTOR LOOP AT PAVEMENT JOINT OR PAVEMENT CRACK

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

DETECTOR LOOP INSTALLATIONS

STANDARD 886001-01