

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				

LEGEND

EXISTING	PROPOSED	DESCRIPTION
SA	SA	SANITARY SEWER OR SERVICE
ST	ST	STORM SEWER OR SERVICE
	UD	PIPE UNDERDRAIN
W	W	WATER MAIN
WS		WATER SERVICE
FM		FORCE MAIN
⊙	⊙	MANHOLE
○	●	CATCH BASIN
□	■	INLET
▽	▽	DRYWELL
△	△	FLARED END SECTION
▽	▽	METAL END SECTION
⊙	⊙	FIRE HYDRANT
⊙	⊙	WATER VALVE W/ BOX AND COVER
⊙	⊙	WATER VALVE VAULT
⊙	⊙	WATER SERVICE BOX OR CURB STOP
⊙	⊙	WATER METER
⊙	⊙	CLEAN OUT
⊙	⊙	SEPTIC VENT
⊙	⊙	TO BE ABANDONED AND/OR REMOVED
G	G	GAS LINE
⊙	⊙	GAS VALVE W/ BOX AND COVER
⊙	⊙	GAS VALVE VAULT
⊙	⊙	GAS METER
⊙	⊙	GAS RISER
⊙	⊙	GAS SERVICE VALVE
T	T	TELEPHONE CABLE
TD	TD	TELEPHONE DUCT
TEL	TEL	TELEPHONE VAULT
FR	FR	TELEPHONE RISER
TV	TV	CABLE TELEVISION (BURIED)
CTV	CTV	CABLE T.V. RISER
CTV	CTV	CABLE T.V. VAULT
E	E	UNDERGROUND ELECTRICAL
OH	OH	OVERHEAD
EM	EM	ELECTRIC METER
ET	ET	PAD MOUNTED TRANSFORMER
EV	EV	ELECTRIC VAULT
JB	JB	JUNCTION BOX
UP	UP	UTILITY POLE w/ GUY ANCHOR
UL	UL	UTILITY POLE w/ LIGHT
LS	LS	LIGHT STANDARD
MB	MB	MAIL BOX
SS	SS	STREET SIGN
RS	RS	RAILROAD SIGNAL
TRC	TRC	TRAFFIC SIGNAL CONTROLLER
TRPH	TRPH	TRAFFIC SIGNAL POST W/ SIGNAL HEAD
HH	HH	HANDHOLE
T12	T12	DECIDUOUS TREE (W/ TRUNK INCH DIA.)
T16	T16	CONIFEROUS TREE (W/ HEIGHT)
B12	B12	DECIDUOUS BUSH
B16	B16	CONIFEROUS BUSH
DF	DF	DEFINING EDGE OF BRUSH OR FORESTED AREA

LEGEND

EXISTING	PROPOSED	DESCRIPTION
X	X	FENCE
GR	GR	GUARD RAIL
CMP	CMP	CULVERT (CMP UNLESS NOTED)
PC	PC	PIPE CULVERT
PCFL	PCFL	PIPE CULVERT W/ FLARED END SECTION
D	D	DITCH
S	S	SUMMIT
EL	EL	EDGE OF LAKE, RIVER, ETC.
M	M	MARSH
TS	TS	TOP OR TOE OF SLOPE
C	C	CONTOUR
E	E	EASEMENT
R.O.W.	R.O.W.	RIGHT OF WAY (ROW)
F.R.O.W.	F.R.O.W.	FENCED RIGHT OF WAY (ROW)
R.O.W.M.	R.O.W.M.	RIGHT OF WAY MONUMENT
U.P.L.	U.P.L.	UNFENCED PROPERTY LINE
F.P.L.	F.P.L.	FENCED PROPERTY LINE
IP	IP	IRON PIPE (PROPERTY CORNER)
CL	CL	CORPORATE LIMITS
BL	BL	BASE LINE OR SURVEY LINE
CL	CL	CENTER LINE
EL	EL	PROPOSED EL/(EXISTING EL.) (POINT, GUTTER, TOP OF CURB)
S.B.	S.B.	SOIL BORING AND NUMBER
B.M.	B.M.	BENCH MARK
CP	CP	SURVEY CONTROL POINT

STANDARD NO.

- 280001-02
- 424001-04
- 442101-05
- 442201-01
- 482011-01
- 542301
- 542311
- 542401
- 602001
- 602011
- 602301-01
- 602401-01
- 602406-02
- 602601
- 602701-01
- 604001-02
- 604036-01
- 604091-01
- 606001-02
- 606006
- 630001-06
- 630101-06
- 630201-03
- 630301-03
- 635006-02
- 635011-02
- 642001
- 701006-02
- 701011-01
- 701101-01
- 701201-02
- 701301-02
- 701326-02
- 701406-04
- 701501-03
- 701502-01
- 701701-04
- 701801-03
- 702001-06
- 720001
- 720006
- 720011
- 720016-01
- 729001
- 780001-01
- 805001
- 814001
- 814006
- 857001
- 877001-02
- 877006-02
- 878001-04
- 880001
- 880006
- 886001

STANDARD

- TEMPORARY EROSION CONTROL SYSTEMS
- CURB RAMPS FOR SIDEWALKS
- CLASS B PATCHES
- CLASS C & D PATCHES
- BITUMINOUS SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- PRECAST REINFORCED CONCRETE FLARED END SECTIONS
- GRATING FOR CONCRETE FLARED END SECTIONS
- METAL END SECTION FOR PIPE CULVERTS
- CATCH BASIN, TYPE A
- CATCH BASIN, TYPE C
- INLET, TYPE A
- MANHOLE, TYPE A
- MANHOLE, TYPE A, 6' DIA.
- PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- MANHOLE STEPS
- FRAME AND LIDS, TYPE 1
- GRATE, TYPE 8
- FRAME AND GRATE, TYPE 24
- CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-15.60 (B-6.24)
- STEEL PLATE BEAM GUARDRAIL
- GUARDRAIL MOUNTED ON EXISTING CULVERTS
- PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- REFLECTOR AND TERMINAL MARKER PLACEMENT
- REFLECTOR MARKER AND MOUNTING DETAILS
- SHOULDER RUMBLE STRIPS
- OFF-ROAD OPR. 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
- OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY
- OFF-ROAD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
- LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- LANE CLOSURE 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
- LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE (2 SHEETS)
- URBAN LANE CLOSURE, MULTILANE INTERSECTION
- LANE CLOSURE, MULTILANE 1 W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- TRAFFIC CONTROL DEVICES (3 SHEETS)
- SIGN PANEL MOUNTING DETAILS
- SIGN PANEL ERECTION DETAILS
- METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- MAST ARM MOUNTED STREET NAME SIGNS
- APPLICATIONS OF TYPES OF A & B METAL POSTS
- TYPICAL PAVEMENT MARKINGS
- ELECTRICAL SERVICE INSTALLATION DETAILS
- CONCRETE HANDHOLES
- DOUBLE HANDHOLES
- STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES (2 SHEETS)
- STEEL MAST ARM ASSEMBLY AND POLE
- STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
- CONCRETE FOUNDATION DETAILS
- SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- TRAFFIC SIGNAL MOUNTING DETAILS
- DETECTOR LOOP INSTALLATIONS
- URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIUM

Deleted 6-12-06

Added 6-12-06

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	R	STRUCTURE TO BE RECONSTRUCTED
BIT	BITUMINOUS PAVEMENT	A	STRUCTURE TO BE ADJUSTED
GR	GRAVEL	▲	CENTRAL ANGLE
CMP	CORRUGATED METAL PIPE	D=	DEGREE OF CURVE
FH	FIRE HYDRANT	T=	TANGENT LENGTH
CI	CAST IRON	L=	CURVE LENGTH
DI	DUCTILE IRON	R=	RADIUS OF CURVE
F-F	FACE-TO-FACE	E=	EXTERNAL DISTANCE
E-E	EDGE-TO-EDGE	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)
B-B	BACK-TO-BACK	X=	EXTERNAL DISTANCE OF VERTICAL CURVE
BM	BENCH MARK	PC	POINT OF CURVATURE
INV EL	INVERT ELEVATION	PI	POINT OF INTERSECTION
CL EL	CENTERLINE ELEVATION	PT	POINT OF TANGENCY
P	POINT	POT	POINT ON TANGENCY
G	GUTTER	PCC	POINT OF COMPOUND CURVATURE
C	CURB	PRC	POINT OF REVERSE CURVATURE
BC	BACK OF CURB	VC	VERTICAL CURVE
EOP	EDGE OF PAVEMENT	N&W	NAIL AND WASHER
PL	PROPERTY LINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
ROW	RIGHT OF WAY		
FL	FLOW LINE		
TF	TOP OF FRAME		
TC	TOP OF CURB OR CONCRETE		

I:\DATA\1\020146\DWG\20146-1000-1000.dwg
 Plotted: 5-01-06 @ 7:05pm By: 354mp
 Copyright © 2004 by Baxter & Woodman, Inc.
 License No. 184-001121 Expires 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK CO. COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers

Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.476.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.459.1260
 Rockford, Illinois 815.989.1351
 Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

LEGEND, HIGHWAY STANDARDS AND ABBREVIATIONS

DESIGNED BY	NJP	SCALE	NONE
DRAWN BY	LUKB	PROJECT NO.	020146
CHECKED BY	NJP	SHEET NO.	2 OF 116
DATE	1-20-05		

SUMMARY OF QUANTITIES, CONTINUED

SPCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	SIGNAL Y031-1F	SIDEWALK SFTY-1B
	67100100	MOBILIZATION	L SUM	1	1		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
	70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	3	3		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	10311	10311		
	70300200	TEMPORARY PAVEMENT MARKING	FOOT	41244	41244		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3437	3437		
**	72000100	SIGN PANEL - TYPE 1	SQ FT	300	200	100	
**	72900100	METAL POST - TYPE A	FOOT	632	632		
**	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	858	858		
**	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	33625	33625		
**	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2654	2654		
**	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1296	1296		
**	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	326	326		
**	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	561	561		
**	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8		
**	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
**	78300100	PAVEMENT MARKING REMOVAL	SQ FT	3437	3437		
**	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	208	208		
**	81000300	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	15	15		
**	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5631		5631	
**	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	287		287	
**	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	48		48	
**	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	30		30	
**	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	581		581	
**	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	71		71	
**	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	231		231	
**	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	520		520	
**	81400100	HANDHOLE	EACH	18		18	
**	81400200	HEAVY DUTY HANDHOLE	EACH	11		11	
**	81400300	DOUBLE HANDHOLE	EACH	3		3	
**	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6002		6002	
**	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	20	20		
**	84200700	LIGHTING FOUNDATION REMOVAL	EACH	2	2		
**	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2		2	
**	85000200	MAINTAINANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
**	85700200	FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2		2	
**	85700300	FULL - ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1		1	
**	86000100	MASTER CONTROLLER	EACH	1		1	
**	86400100	TRANSCIEVER - FIBER OPTIC	EACH	3		3	
**	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	813		813	
**	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	2541		2541	
**	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	4526		4526	
**	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	2468		2468	
**	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4619		4619	
**	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	463		463	
**	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1		1	
**	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	5		5	
**	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4		4	
**	87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2		2	

Deleted
6-12-06

Revised
6-12-06

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	5
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

I:\GARFF\001146\DWSS\20146-SMKY-CTT.dwg
 Plotted: 5/19/06 7:59pm By: jk
 Date: 5/19/06
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-06

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			



Baxler & Woodman
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.768.7934
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.797.3111
 Grayland, Illinois 815.223.5098
 Rockford, Illinois 815.480.1551
 Plainfield, Illinois 815.509.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SUMMARY OF QUANTITIES

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	5 OF 116
DATE	1-20-05

SUMMARY OF QUANTITIES, CONTINUED

SPCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1000-2A	SIGNAL Y031-1F	SIDEWALK SFTY-1B
**	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		2	
**	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	4		4	
**	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1	
**	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1		1	
**	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40		40	
**	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	12		12	
**	87800400	CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	150		150	
**	87800415	CONCRETE FOUNDATION, TYPE E 36" DIAMETER	FOOT	15		15	
**	87900200	DRILL EXISTING HANDHOLE	EACH	3		3	
**	88000170	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2		2	
**	88000290	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4	
**	88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	27		27	
**	88500100	INDUCTIVE LOOP DETECTOR	EACH	22		22	
**	88600100	DETECTOR LOOP, TYPE 1	FOOT	2053		2053	
**	88700200	LIGHT DETECTOR	EACH	7		7	
**	88700300	LIGHT DETECTOR AMPLIFIER	EACH	3		3	
**	88800100	PEDESTRIAN PUSH BUTTON	EACH	7		7	
**	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
**	89502200	MODIFY EXISTING CONTROLLER	EACH	1		1	
**	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4576		4576	
**	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3023		3023	
**	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2	
**	89502380	REMOVE EXISTING HANDHOLE	EACH	11		11	
**	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9	
**	A2004620	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
**	A2008020	TREE, TILIA CORDATA (LITTLE LEAF LINDEN) 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
**	K0036120	MULCH PLACEMENT 4"	SQ YD	65	65		
**	XX001877	SUMP PUMP LINE CONNECTION	EACH	3	3		
**	XX002202	VEHICLE CONTROL BOLLARDS	EACH	3	3		
**	XX002881	TRAFFIC SIGNAL SYSTEM OPTIMIZATION	L SUM	1	1		
**	XX003183	POST MOUNTED FLASHING BEACON INSTALLATION	EACH	1	1		
**	XX003817	GRATING FOR CONCRETE FLARED END SECTION 12"	EACH	1	1		
**	XX005011	BOX CULVERT EXTENSION WITH HEADWALL	L SUM	1	1		
**	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	1	1		
**	XX006372	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 4"	FOOT	30	30		
**	XX006373	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 8"	FOOT	45	45		
**	X0321905	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 12"	FOOT	67	67		
**	X0321906	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE 15"	FOOT	164	164		
**	X0321020	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) VARIABLE DEPTH	SQ YD	3503	3503		
**	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	100	100		
**	X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4297		4297	
**	X0323868	DRAINAGE RESTRICTOR	EACH	1	1		
**	X0545000	BOX CULVERT REMOVAL	FOOT	71	71		
**	X2800100	TEMPORARY DITCH CHECKS, ROLLED EXCELSIOR	EACH	12	12		
**	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	14	14		
**	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	15	15		
**	X4023000	TEMPORARY ACCESS (ROAD)	EACH	10	10		
**	X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	5718	5718		
**	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	386	386		
**	X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	3305	3305		
**	X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE, N70	TON	1097	1097		

Revised
6-12-06

Revised
6-12-06
Deleted
6-12-06

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	5A
STA.	TO STA.		FED AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				

I:\DATA\020146\DWG\020146-SUM-QTY.dwg
 Plotted: 5-08-06 By: [Name]
 Date: 5-08-06 By: [Name]
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7454
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graylake, Illinois 815.223.5088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.689.7455

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

SUMMARY OF QUANTITIES

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
LUK	020146
CHECKED BY	SHEET NO.
NJP	5A OF 116
DATE	
1-20-05	

SUMMARY OF QUANTITIES, CONTINUED

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	6
STA. TO STA.		FED. ROAD DIST. NO. 1		
		ILLINOIS	FED AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

SPCLTY	IDOT CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000-2A	SIGNAL Y031-1F	SIDEWALK SFTY-1B
**	X8050015	SERVICE INSTALLATION, POLE MOUNT	EACH	4		4	
**	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 12F, SM 12F	FOOT	4297		4297	
**	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1615		1615	
**	X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	972		972	
**	X8800020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	17		17	
**	X8800035	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6		6	
**	X8800040	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		3	
**	X8800045	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4	
**	X8800060	SIGNAL HEAD, L.E.D., 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	2		2	
**	X8805280	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1	
**	X8810610	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	4		4	
**	X8810620	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	3		3	
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	14767	14767		
	Z0019600	DUST CONTROL WATERING	UNIT	50	50		
	Z0064800	SELECTIVE CLEARING	UNIT	65	65		
Δ	Z0076600	TRAINEES	HOUR	1500	1500		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	Z0022800	FENCE REMOVAL	FOOT	360	360		
	XX006571	REMOVE AND REPLACE BOLLARDS	EACH	3	3		
**	XX006572	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 26 FT.	EACH	1		1	
	XX006573	CATCH BASINS, TYPE A, 6' DIAMETER, TYPE 8 GRATE	EACH	1	1		
	XX006574	CATCH BASINS, TYPE A, 6' DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2		
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD, 7016.06	L SUM	7	7		

Revised
6-12-06

Added
6-12-06

Δ 4080

I:\GANT\020146\DWGS\20146-SUM-QTY.dwg
 Plotted: 5-08-06 7:45pm By: jgrip
 State of Illinois - Professional Engineering Firm
 License No. - 184-201121 - Expires 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS			



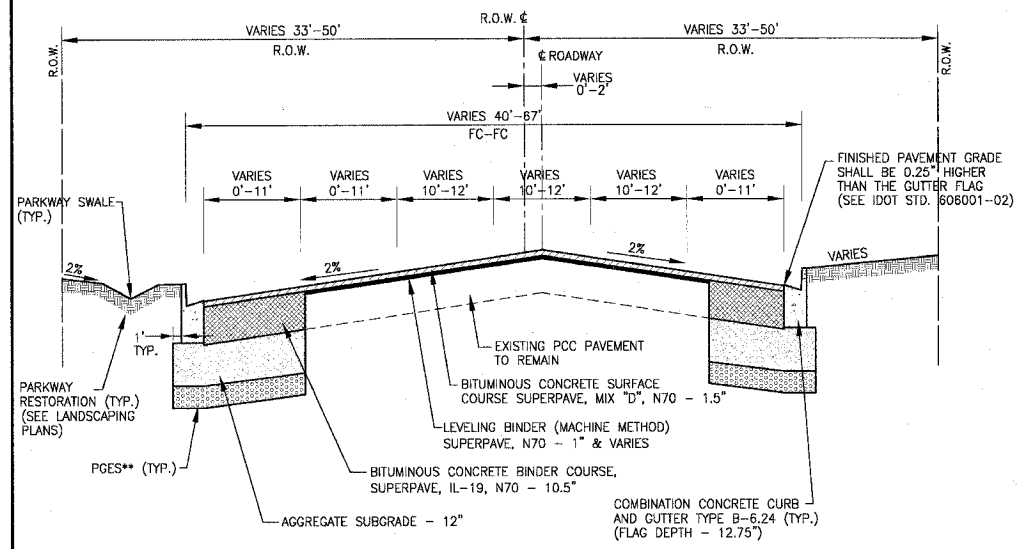
Baxter & Woodman
 Crystal Lake, Illinois 815.469.1260
 Burlington, Wisconsin 262.768.7894
 Mokena, Illinois 708.478.2090
 DuKalb, Illinois 815.787.3111
 Orlandok, Illinois 847.223.9088
 Rockford, Illinois 815.489.1551
 Plainfield, Illinois 815.600.7455

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

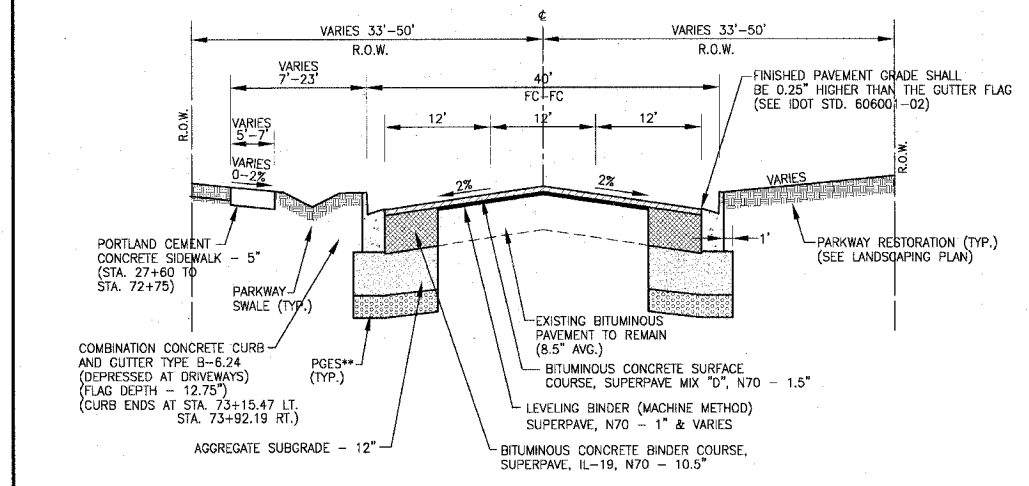
SUMMARY OF QUANTITIES

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	6 OF 116
DATE	
1-20-05	

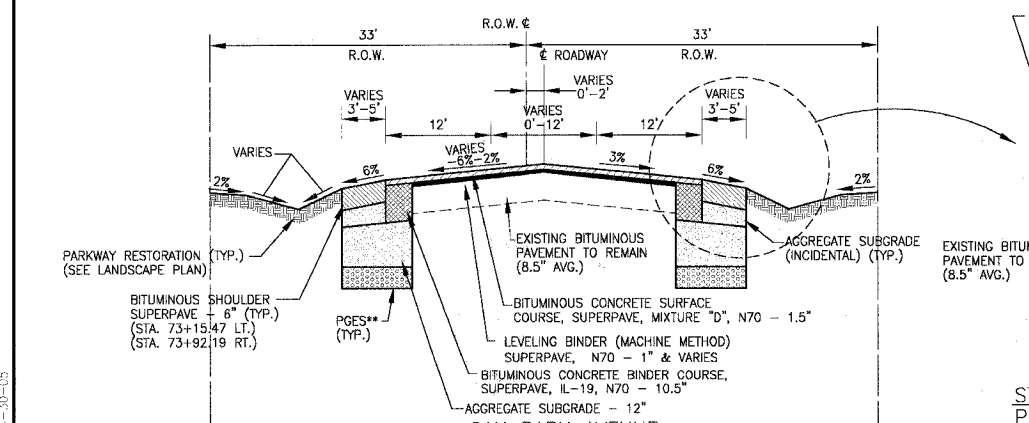
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	13
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		
		CMM-7003 (750)		
CONTRACT NO. 83727				



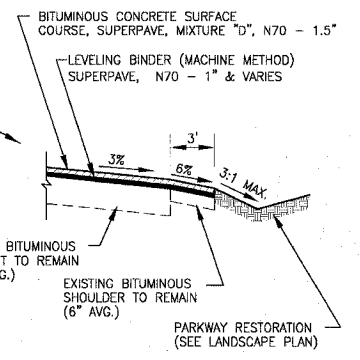
OAK PARK AVENUE:
STA. 19+07 (159TH STREET) TO STA. 26+50
PROPOSED TYPICAL SECTION



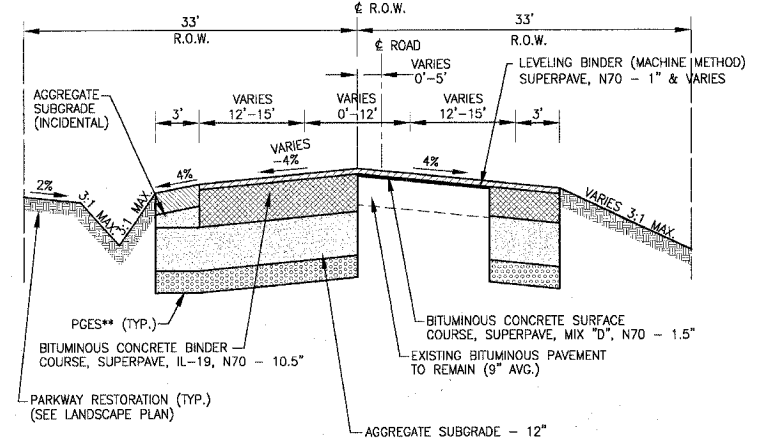
OAK PARK AVENUE:
STA. 26+50 TO STA. 74+00
PROPOSED TYPICAL SECTION



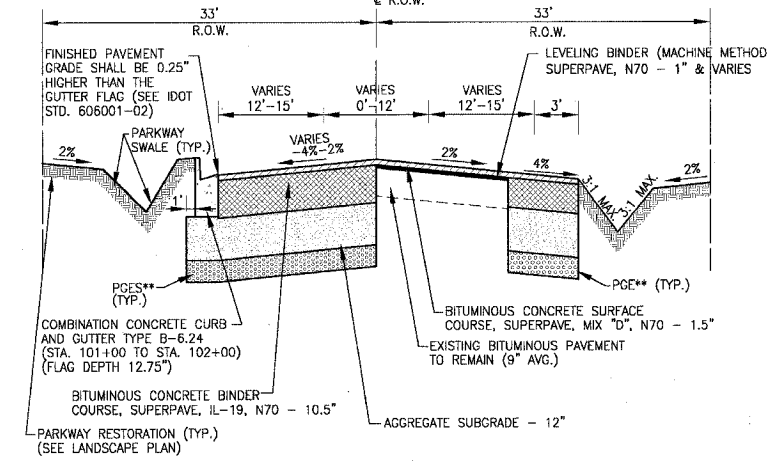
OAK PARK AVENUE:
STA. 74+00 TO STA. 99+00
PROPOSED TYPICAL SECTION



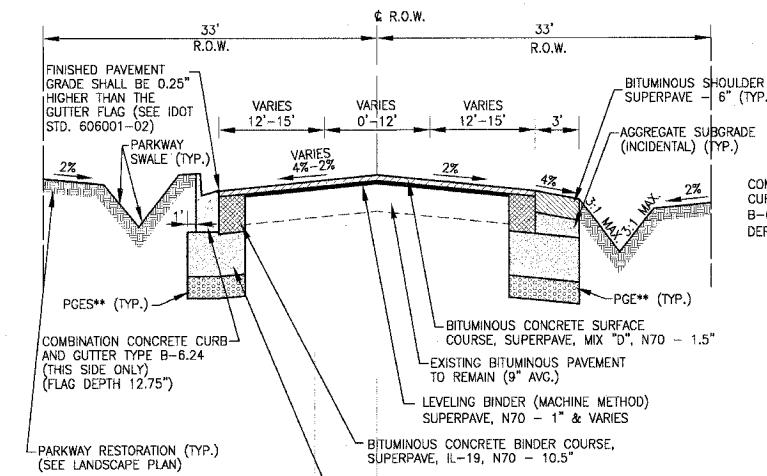
OAK PARK AVENUE:
STA. 92+04 TO STA. 97+10
PROPOSED TYPICAL SECTION



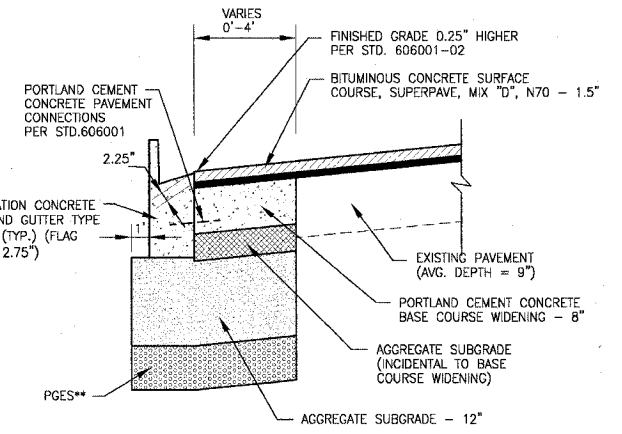
OAK PARK AVENUE:
STA. 99+00 TO STA. 100+72
PROPOSED TYPICAL SECTION



147th STREET
STA. 100+72 TO STA. 102+00
PROPOSED TYPICAL SECTION



147th STREET
STA. 102+00 TO STA. 104+20
PROPOSED TYPICAL SECTION



PORTLAND CEMENT CONCRETE
BASE COURSE WIDENING DETAIL

- NOTES**
- STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE PLACED OVER ALL JOINTS WHERE THE EXISTING EDGE OF PAVEMENT ADJUTS NEW PAVEMENT WIDENING PRIOR TO THE FINAL RESURFACING, IN ACCORDANCE WITH SECTION 44.3 OF THE STANDARD SPECIFICATIONS.
 - PORTLAND CEMENT CONCRETE BASE COURSE WIDENING SHALL BE USED WHERE WIDENING WIDTH FROM EXISTING TO PROPOSED EDGE OF PAVEMENT IS 4 FEET OR LESS, AND NOT PARALLEL AND DIRECTLY OVER PROPOSED MAINLINE STORM SEWER. SEE DETAIL THIS SHEET.
 - STATION 100+72, C/L OF OAK PARK AVENUE (BK) = STATION 100+72 C/L OF 147TH STREET (AH)

PARKWAY RESTORATION:

PARKWAY RESTORATION SHALL BE PAID AS THE FOLLOWING ITEMS IN AREAS ADJACENT TO RESIDENTIAL OR COMMERCIAL PROPERTIES, AND WHERE DIRECTED BY THE ENGINEER:

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, SALT TOLERANT
- NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS
- SUPPLEMENTAL WATERING

PARKWAY RESTORATION SHALL BE PAID AS THE FOLLOWING ITEMS IN AREAS ADJACENT TO FOREST PRESERVE, UNDEVELOPED PROPERTY, AND WHERE DIRECTED BY THE ENGINEER:

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- NITROGEN, PHOSPHOROUS, AND POTASSIUM NUTRIENTS
- EROSION CONTROL BLANKET
- SUPPLEMENTAL WATERING

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) QUANTITY HAS BEEN INCLUDED IN CONTRACT FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE AND/OR UNSTABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGE OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

DATE: 01/14/16
DRAWN BY: J. WOODMAN
CHECKED BY: J. WOODMAN
SCALE: AS SHOWN
PROJECT NO.: 99-00073-00-WR
SHEET NO.: 13 OF 116

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
	3	5-19-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
Consulting Engineers
Crystal Lake, Illinois 815.459.1260
Burlington, Wisconsin 262.763.7834
Mokena, Illinois 708.478.2090
DeKalb, Illinois 815.797.3111
Evanston, Illinois 847.223.5088
Rockford, Illinois 815.488.1551
Plainfield, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

OAK PARK AVENUE/147th STREET
PROPOSED TYPICAL SECTIONS

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
UKB	020146
CHECKED BY	SHEET NO.
NJP	13 OF 116
DATE	
1-20-05	

GENERAL NOTES - ALL STAGES

- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES WITHIN THE CONSTRUCTION WORK ZONE.
- THE CONTRACTOR SHALL PROVIDE A WRITTEN "SEQUENCE OF CONSTRUCTION" PLAN WITHIN 10 DAYS OF THE CONTRACT AWARD. THE PLAN SHALL PROVIDE IN DETAIL HOW THE PROPOSED UNDERGROUND UTILITIES WILL BE CONSTRUCTED WHILE MAINTAINING EXISTING STORM, SANITARY, AND WATER SERVICE. THE PLAN MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION.
- THE SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION'S INTENT IS TO COMPLETE STAGE III WITH MINIMAL LOSS OF ACCESS TO LOCAL BUSINESSES AND RESIDENCES, AND TO ASSURE THAT NO TWO-WAY CLOSURES ARE IN PLACE DURING WINTER SHUTDOWN SEASON IN COMPLIANCE WITH THE PROSECUTION AND PROGRESS SPECIAL PROVISION OF THE CONTRACT. TWO-WAY TRAFFIC IS TO BE OPENED AND MAINTAINED AT ALL TIMES UPON COMPLETION OF STAGE III. ALL WORK NECESSARY TO COMPLY WITH THE INTENT OF THE PLAN IS CONSIDERED INCIDENTAL TO THE ITEM OF TRAFFIC CONTROL AND PROTECTION. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 442.04 OF THE STANDARD SPECIFICATIONS, AND WORK TO BE IN ACCORDANCE WITH APPLICABLE STANDARDS.
- FURNISHING, PLACEMENT, RELOCATION, AND REMOVAL OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION. ALL CONFLICTING SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER, AND SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 11' CLEAR ROADWAY PER DIRECTION OF TRAFFIC FLOW. INGRESS AND EGRESS TO DRIVEWAYS AND SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES. THIS WORK SHALL BE INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- ANY NECESSARY SHORT TERM ACTIVITY WHICH REQUIRES ENCROACHMENT INTO THE LANE(S) OPEN TO TRAFFIC SHALL BE RESTRICTED TO THE HOURS FROM 9:00 AM TO 3:00 PM. THESE CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS.
- THE MAINTENANCE OF THE SHOULDERS AND DRAINAGE FACILITIES SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION.
- TWO TYPE B FLASHING LIGHTS CONFORMING TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, SHALL BE PLACED ON EACH TYPE III BARRICADE.
- ADDITIONAL SIGNS, BARRICADES, DELINEATORS, PAVEMENT MARKINGS, OR OTHER TRAFFIC CONTROL AND PROTECTION ITEMS TO BE PLACED PER APPLICABLE STANDARDS AND AS DIRECTED BY THE ENGINEER.
- BARRICADE SPACINGS SHALL BE 50' C-C ON TANGENTS, 25' C-C ON ALL TAPERS/SHIFTS, AND 12' C-C ON RADII.
- CONTRACTOR TO PROVIDE TEMPORARY ACCESS FROM JUSTAMERE ROAD TO GIBBONS GARDEN RESTAURANT AND THE COOK COUNTY FOREST PRESERVE AT ALL TIMES.

SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION- STAGE I-PHASE 1

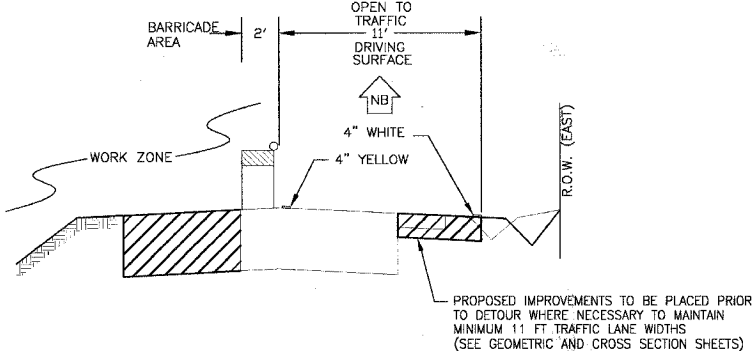
- PROVIDE TRAFFIC CONTROL AND PROTECTION. CONSTRUCTION OPERATIONS INVOLVING THE TEMPORARY CLOSING OF ROADS SHALL NOT BEGIN WITHOUT AT LEAST THREE DAYS PRIOR NOTICE TO THE CITY BY THE CONTRACTOR.
- PROVIDE ALL NECESSARY EROSION CONTROL.
- CONSTRUCT FULL DEPTH BITUMINOUS SHOULDER AND PAVEMENT WIDENING ON NORTHBOUND OAK PARK AVENUE AND EASTBOUND 147TH STREET BETWEEN STATIONS 99+00 AND 102+00 AS SHOWN ON CONSTRUCTION PLANS.
- PROVIDE TEMPORARY PAVEMENT MARKING FOR NORTHBOUND OAK PARK AVENUE AND EASTBOUND 147TH STREET.

SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION- STAGE I-PHASE 2

- PROVIDE TRAFFIC CONTROL AND PROTECTION. INSURE THAT THE DETOUR ROUTES ARE CLEARLY MARKED BEFORE CLOSING JUSTAMERE ROAD, SOUTHBOUND OAK PARK AVENUE, AND EASTBOUND 147TH STREET.
- PROVIDE ALL NECESSARY EROSION CONTROL.
- REMOVE EXISTING PAVEMENT FROM INTERSECTION BETWEEN STATIONS 99+00 AND 102+00 AS INDICATED IN PLANS.
- REDIRECT NORTHBOUND OAK PARK AVENUE TO SOUTHBOUND LANE OVER CULVERT. CONSTRUCT EAST SIDE OF CULVERT EXTENSION INCLUDING ROADWAY REPAIR AND SHOULDER.
- CONSTRUCT SIGNAL INFRASTRUCTURE, FOUNDATIONS, AND POSTS.

SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERSECTION RECONSTRUCTION- STAGE I-PHASE 3

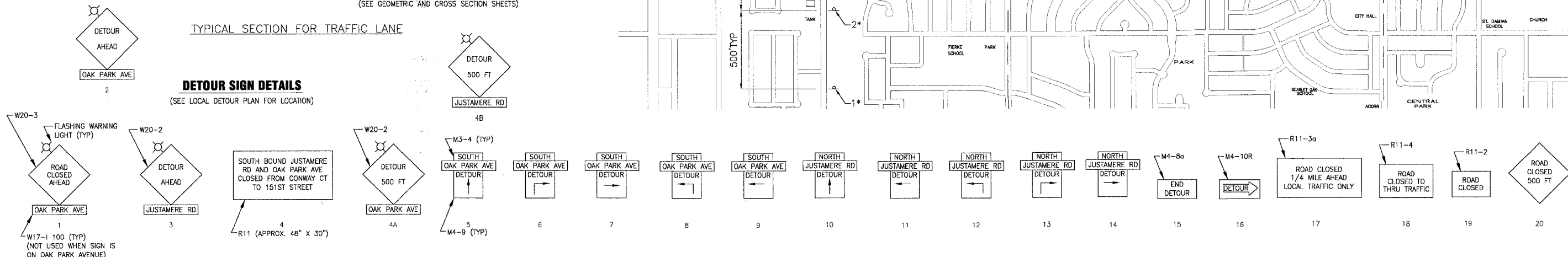
- CONSTRUCT AGGREGATE SUBBASE, COMBINATION CONCRETE CURB AND GUTTER, BITUMINOUS BASE COURSE, AND BITUMINOUS CONCRETE BINDER COURSE FOR RECONSTRUCTION AREA.
- CONSTRUCT WEST EXTENSION OF BOX CULVERT.
- REMOVE OR RELOCATE (AS NECESSARY) THE TRAFFIC CONTROL AND PROTECTION AND DETOUR ROUTES, OPENING RECONSTRUCTED BINDER TO TRAFFIC.
- INSTALL TEMPORARY PAVEMENT MARKINGS.
- OPEN ROADS TO TRAFFIC.



TYPICAL SECTION FOR TRAFFIC LANE

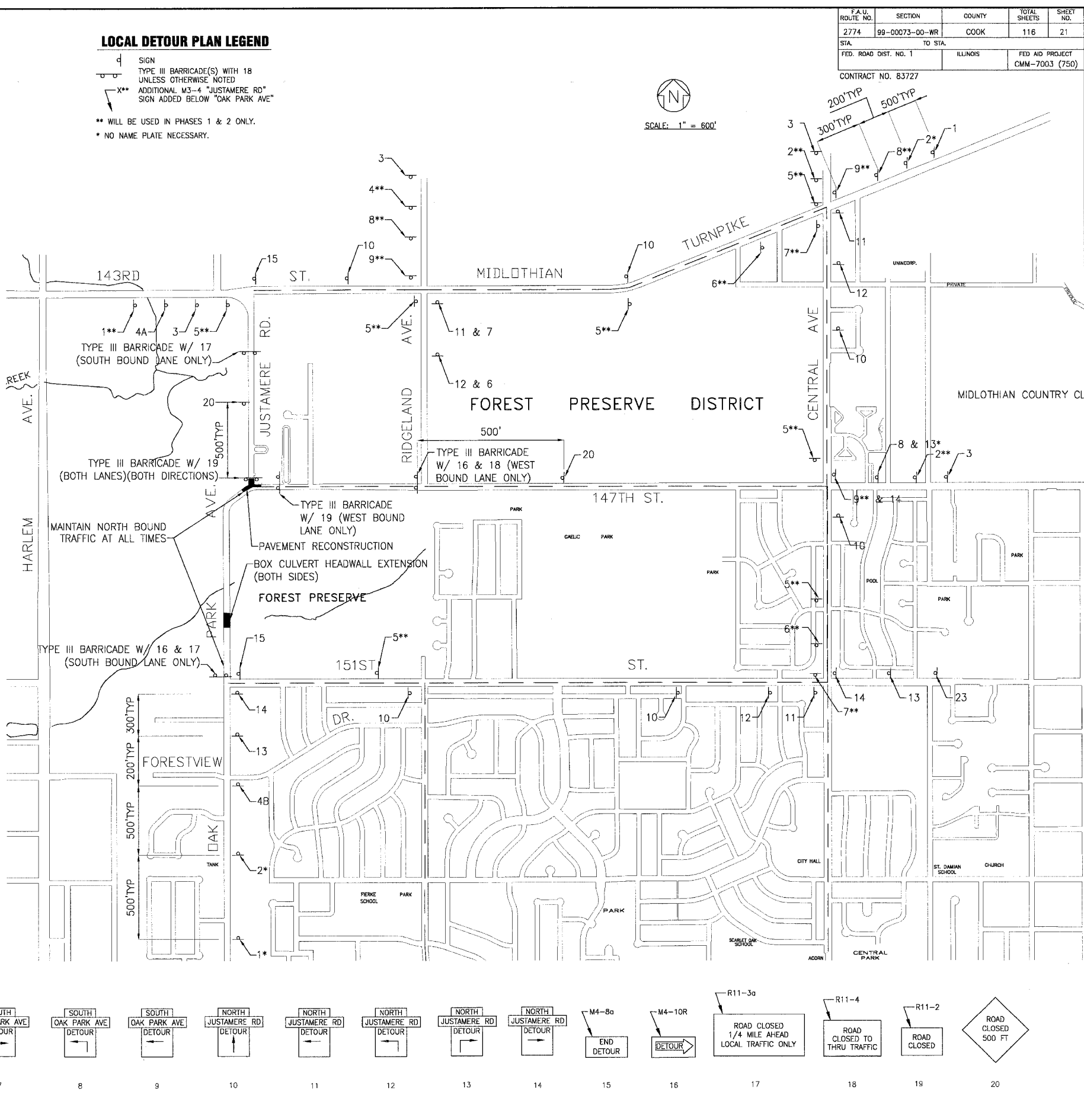
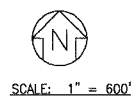
DETOUR SIGN DETAILS

(SEE LOCAL DETOUR PLAN FOR LOCATION)



LOCAL DETOUR PLAN LEGEND

- SIGN
- TYPE III BARRICADE(S) WITH 18 UNLESS OTHERWISE NOTED
- ADDITIONAL M3-4 "JUSTAMERE RD" SIGN ADDED BELOW "OAK PARK AVE"
- ** WILL BE USED IN PHASES 1 & 2 ONLY.
- * NO NAME PLATE NECESSARY.



F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	21
STA.	TO STA.		FED. ROAD DIST. NO. 1	
			ILLINOIS	FED AID PROJECT CMM-7003 (750)

CONTRACT NO. 83727

I:\CA\FT\2014\6\DWG\2014-16-DETOUR-MAP.dwg
 Plotted: 6/20/16 10:44am by: j35njlp
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
Baxter & Woodman Crystal Lake, Illinois 815.459.1260 Burlington, Wisconsin 262.763.7834 Mokena, Illinois 708.478.2090 DeKalb, Illinois 815.787.3111 Graystone, Illinois 947.283.5080 Rockford, Illinois 815.482.1551 Plainfield, Illinois 815.609.7425	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-8-06	PER IDOT COMMENTS
	3	5-19-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

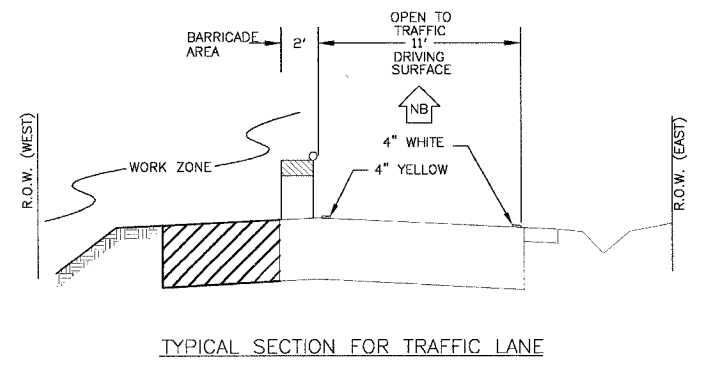
CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

DESIGNED BY NJP	SCALE NONE
DRAWN BY NJP	PROJECT NO. 020146
CHECKED BY NJP	SHEET NO.
DATE 1-20-05	21 OF 116

MAINTENANCE OF TRAFFIC TEMPORARY DETOUR STAGE I

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	21A
STA.	TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS
			FED AID PROJECT	CMM-7003 (750)
CONTRACT NO. 83727				

LOCAL DETOUR PLAN LEGEND



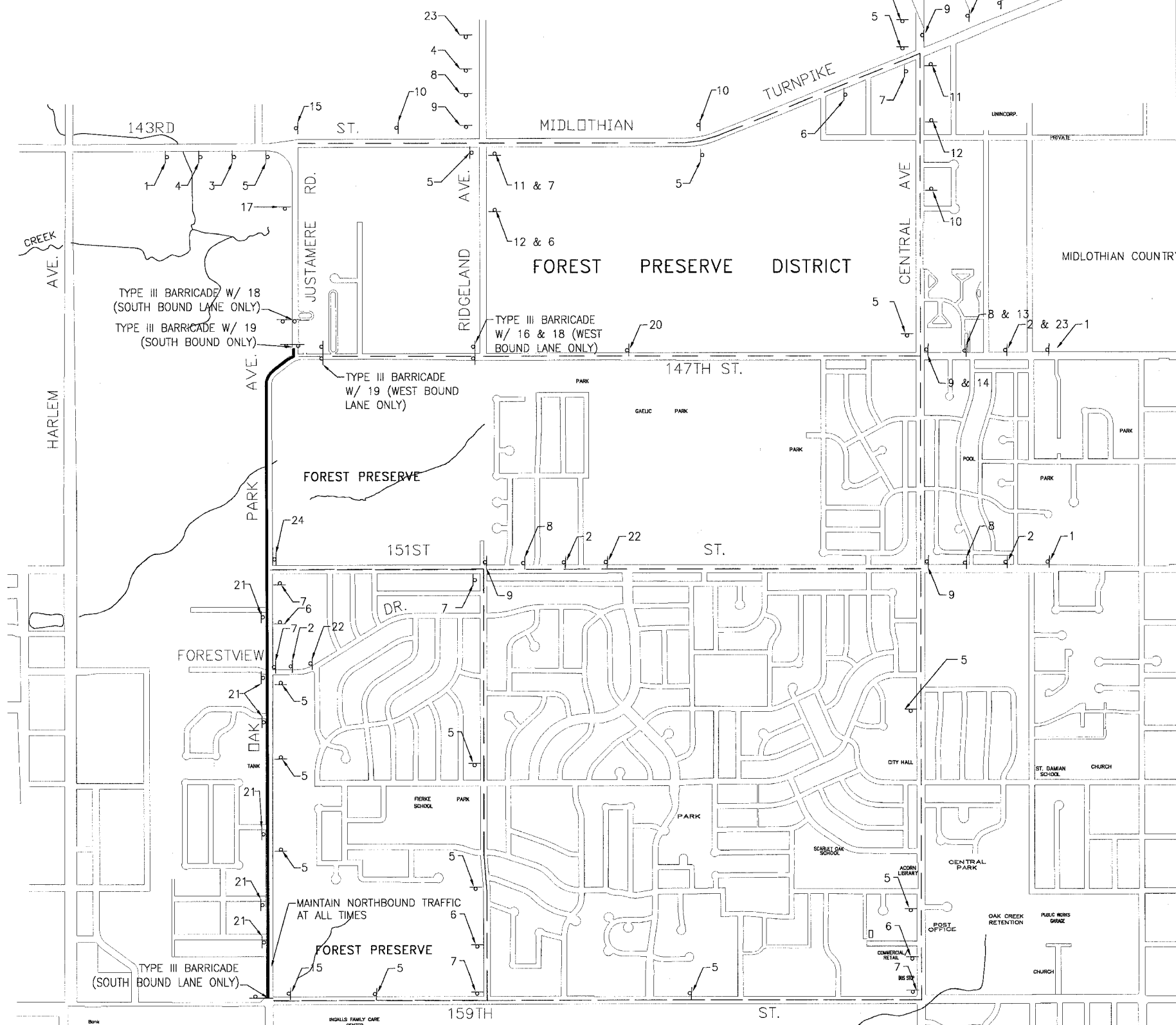
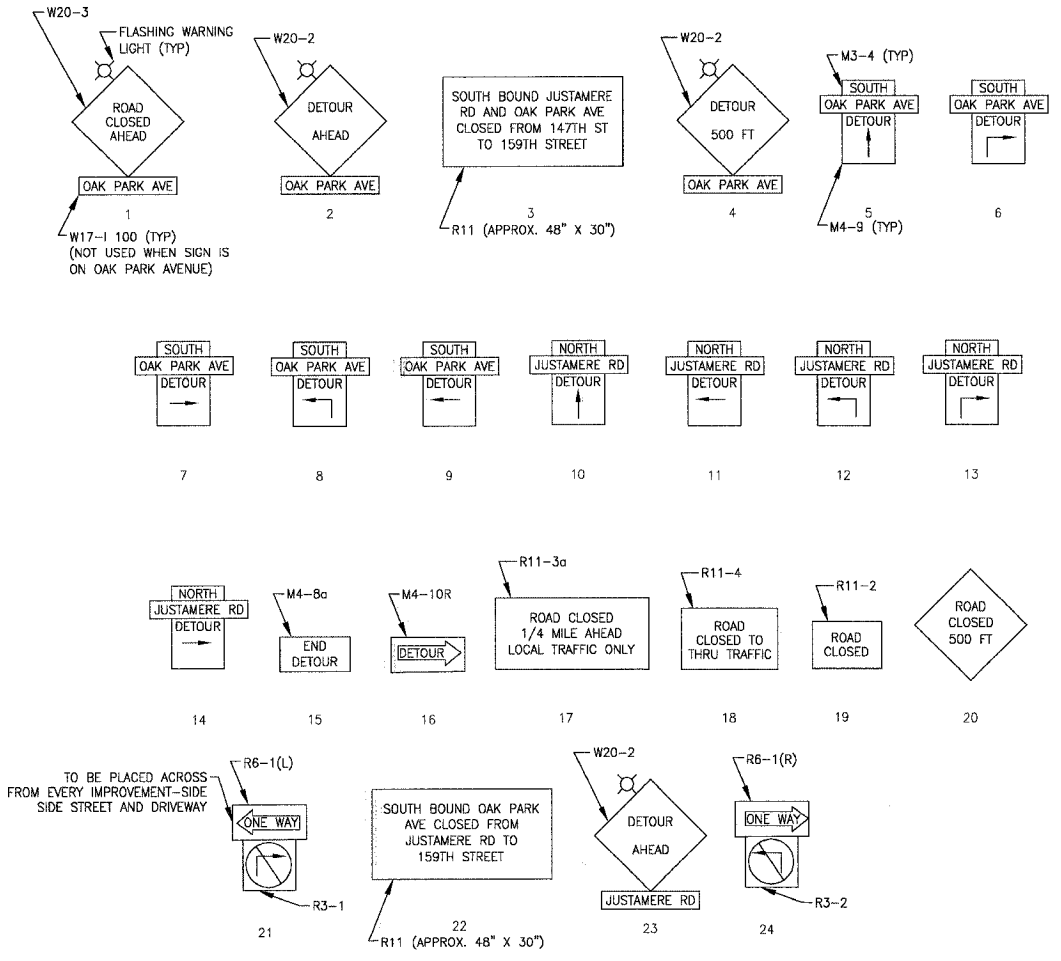
TYPICAL SECTION FOR TRAFFIC LANE

SUGGESTED SEQUENCE OF CONSTRUCTION STAGE 2

1. INSTALL TEMPORARY TRAFFIC SIGNALS.
2. PROVIDE TRAFFIC CONTROL AND PROTECTION. CONSTRUCTION OPERATIONS INVOLVING THE TEMPORARY CLOSING OF ROADS SHALL NOT BEGIN WITHOUT AT LEAST THREE DAYS PRIOR NOTICE TO THE CITY BY THE CONTRACTOR. NORTHBOUND TRAFFIC SHALL REMAIN OPEN; SOUTHBOUND TRAFFIC SHALL BE DETOURED.
3. ASSURE ALL NECESSARY EROSION CONTROL IS IN PLACE.
4. CONSTRUCT MAINLINE, OUTLET, AND HALF OF LATERAL STORM SEWER, AND WEST PAVEMENT PATCHING AND WIDENING IMPROVEMENTS.

DETOUR SIGN DETAILS

(SEE LOCAL DETOUR PLAN FOR LOCATION)
NOTE: W17-1 100 ROAD NAME SIGN NOT USED WHEN ON CLOSURE ROUTE



I:\OAKNET\020146\CWGS\20146-DETOUR-MAP.dwg
 Plotted: 6-05-06 10:46:34 AM By: 3340jlp
 Size of Illinois - Professional Engineer Firm
 License No. - 184-001121 - Expires 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
BAXTER & WOODMAN	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-19-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.458.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Graystone, Illinois 847.223.9088
 Rockford, Illinois 815.499.4561
 Maitland, Illinois 815.609.7425

CITY OF OAK FOREST, ILLINOIS
OAK PARK AVENUE PROJECT

MAINTENANCE OF TRAFFIC
TEMPORARY DETOUR
STAGE 2

DESIGNED BY	SCALE
NJP	NONE
DRAWN BY	PROJECT NO.
NJP	020146
CHECKED BY	SHEET NO.
NJP	21A OF 116
DATE	
1-20-05	

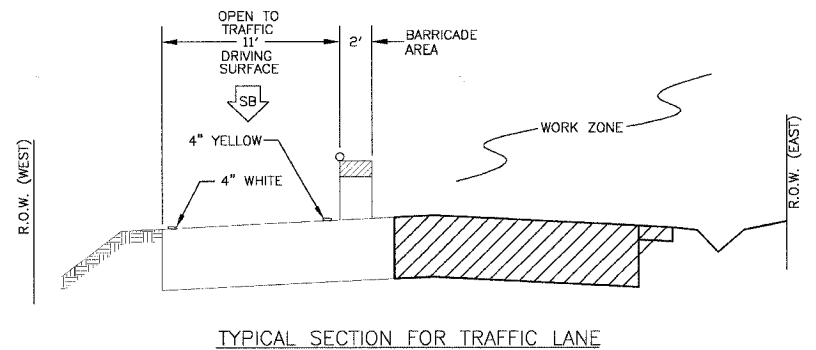
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	21B
SIA TO STA		FED. ROAD DIST. NO. 1		
ILLINOIS		FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				

LOCAL DETOUR PLAN LEGEND

- SIGN
- TYPE III BARRICADE(S) WITH 18 UNLESS OTHERWISE NOTED



SCALE: 1" = 600'



TYPICAL SECTION FOR TRAFFIC LANE

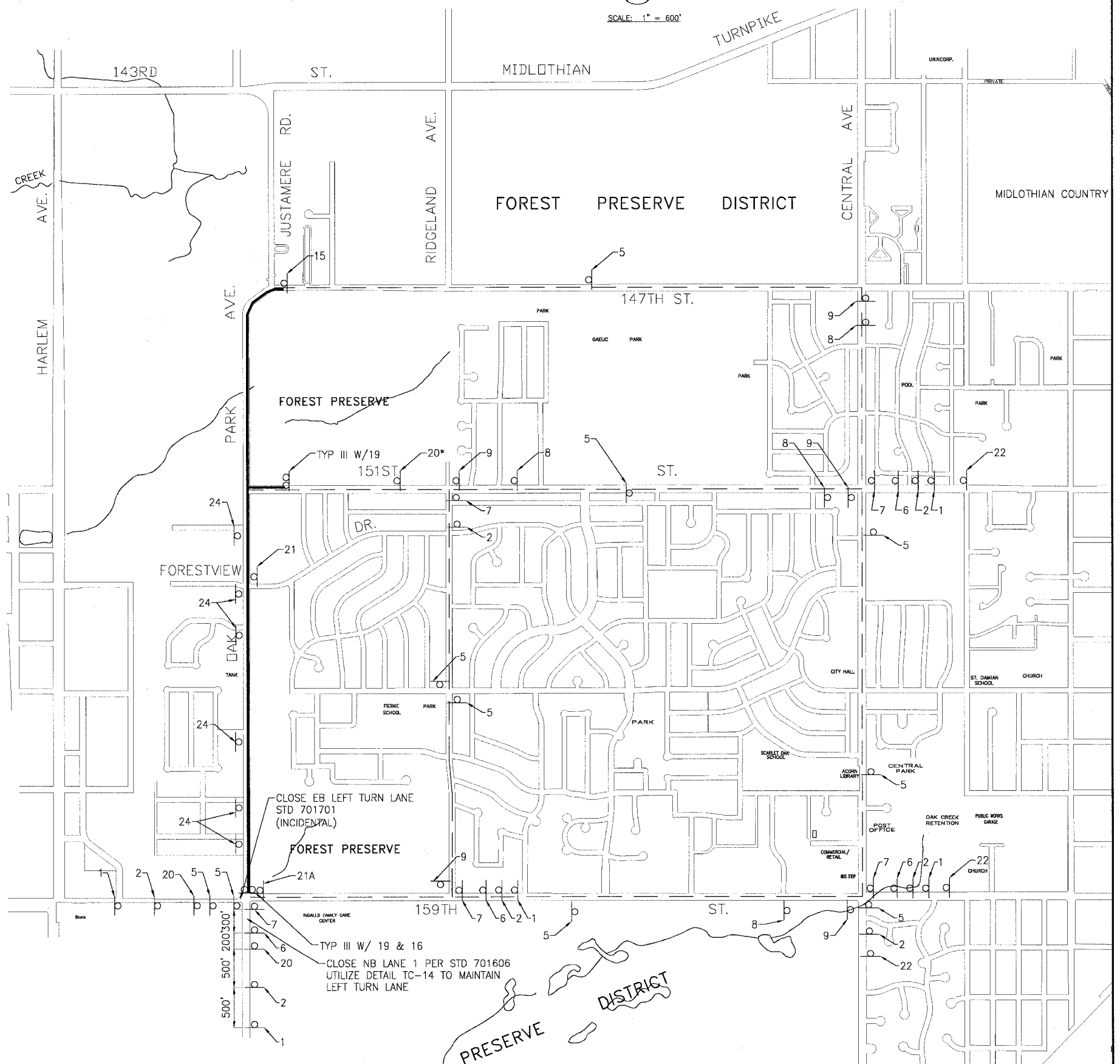
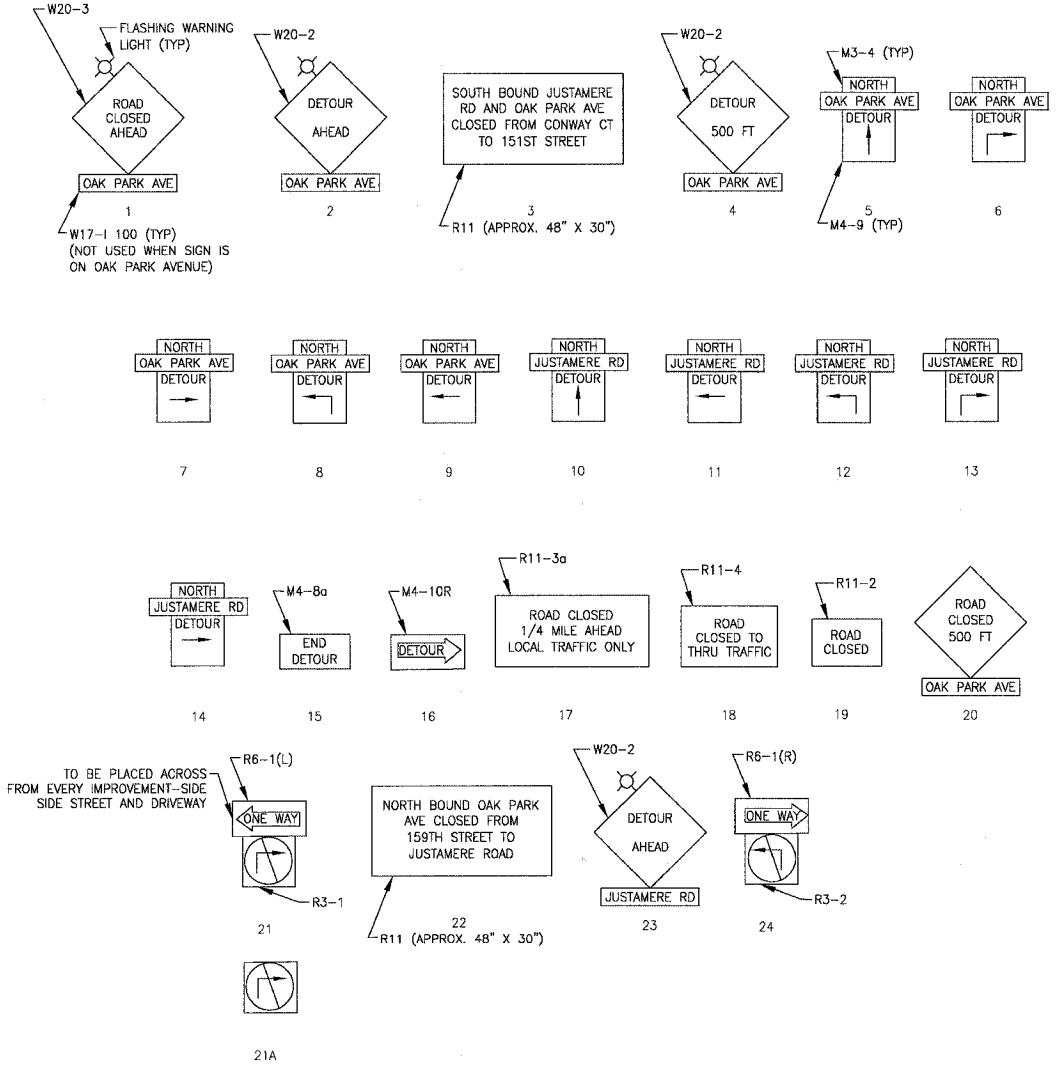
SUGGESTED SEQUENCE OF CONSTRUCTION STAGE 3

1. PROVIDE TRAFFIC CONTROL AND PROTECTION. CONSTRUCTION OPERATIONS INVOLVING THE TEMPORARY CLOSURE OF ROADS SHALL NOT BEGIN WITHOUT AT LEAST THREE DAYS PRIOR NOTICE TO THE CITY BY THE CONTRACTOR. SOUTH BOUND TRAFFIC SHALL REMAIN OPEN; SOUTHBOUND TRAFFIC SHALL BE DETOURED.
2. CONSTRUCT REMAINING STORM SEWER, AND EAST PAVEMENT PATCHING AND WIDENING IMPROVEMENTS.
3. INSTALL PERMANENT TRAFFIC SIGNALS.
4. CONSTRUCT FINAL PAVEMENT SURFACING AND RESTORATION IN WORK ZONES.
5. PLACE TEMPORARY PAVEMENT MARKINGS AND OPEN TO TRAFFIC.
6. CONSTRUCT FINAL PAVEMENT SURFACING, PAVEMENT MARKINGS AND RESTORATION UNDER TRAFFIC.

DETOUR SIGN DETAILS

(SEE LOCAL DETOUR PLAN FOR LOCATION)

NOTE: W17-1 100 ROAD NAME SIGN NOT USED WHEN ON CLOSURE ROUTE
NOTE: * = NAME PLATE NOT NECESSARY



I:\GAR\CT\C20146\DWG\20146-DETOUR-MAP.dwg
 Plotted by: jmm
 Date: 11/15/06
 Scale: 1/8" = 1'-0"
 License No.: 184-001121 - Expires 4-30-05

CONSULTANTS	REV. NO.	DATE	DESCRIPTION
	1	4-28-06	PER IDOT AND COOK COUNTY COMMENTS
	2	5-19-06	PER IDOT COMMENTS

* - REFER TO EQUIPMENT MANUFACTURER'S SHOP DRAWINGS

BAXTER & WOODMAN
 Consulting Engineers
 Crystal Lake, Illinois 815.459.1260
 Burlington, Wisconsin 262.763.7834
 Mokena, Illinois 708.478.2090
 DeKalb, Illinois 815.787.3111
 Crystal Lake, Illinois 815.223.5088
 Rockford, Illinois 815.496.1551
 Plainfield, Illinois 815.609.7425

**CITY OF OAK FOREST, ILLINOIS
 OAK PARK AVENUE PROJECT**

**MAINTENANCE OF TRAFFIC
 TEMPORARY DETOUR
 STAGE 3**

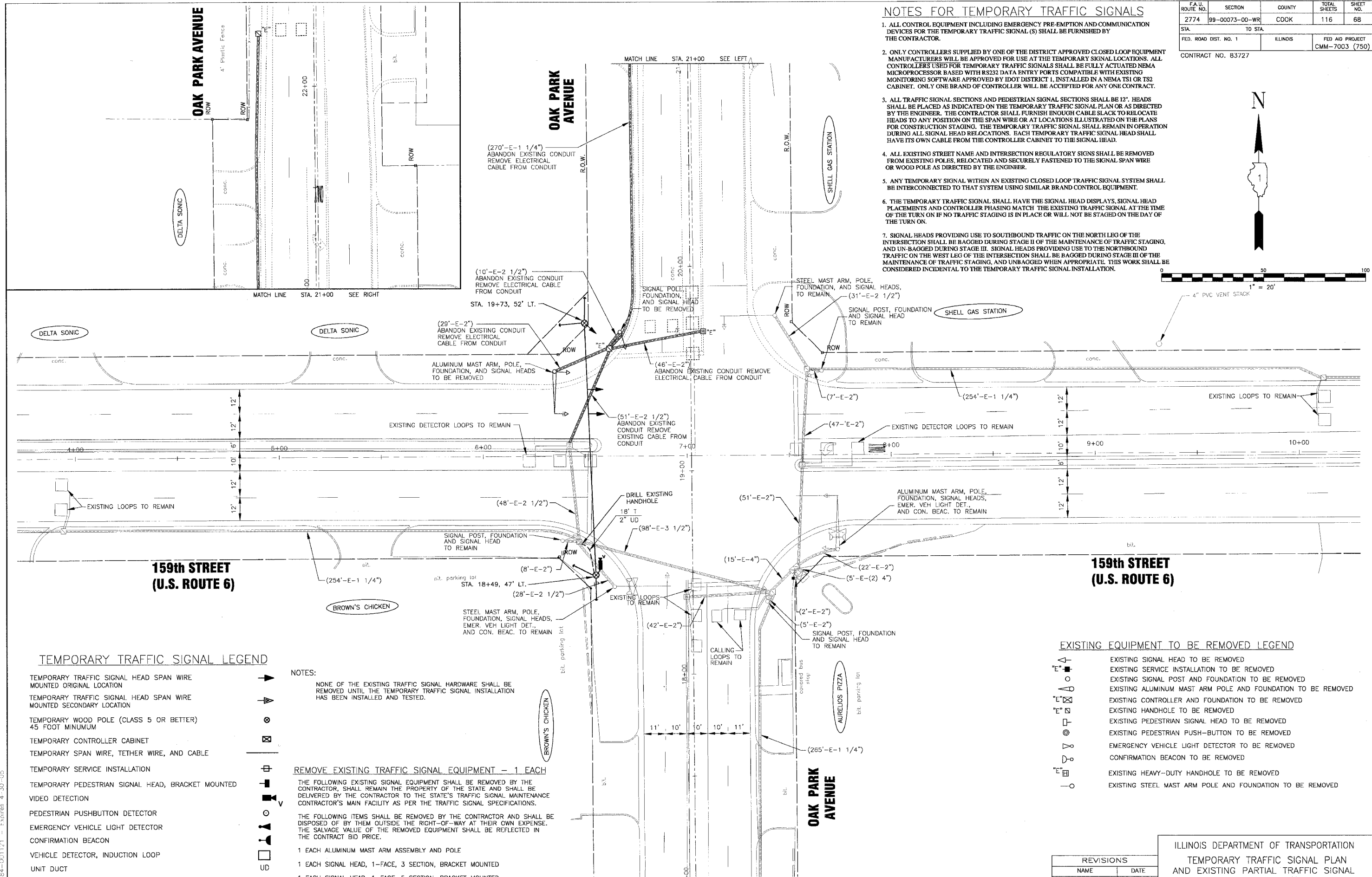
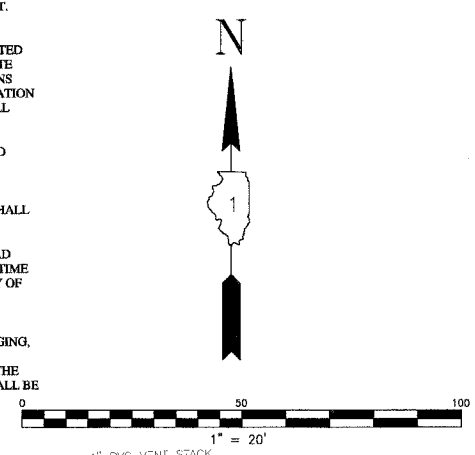
DESIGNED BY	SCALE
DRAWN BY	NONE
CHECKED BY	PROJECT NO. Q20146
DATE	SHEET NO.
1-20-05	21B OF 116

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT THE TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. SIGNAL HEADS PROVIDING USE TO SOUTHBOUND TRAFFIC ON THE NORTH LEG OF THE INTERSECTION SHALL BE BAGGED DURING STAGE II OF THE MAINTENANCE OF TRAFFIC STAGING, AND UN-BAGGED DURING STAGE III. SIGNAL HEADS PROVIDING USE TO THE NORTHBOUND TRAFFIC ON THE WEST LEG OF THE INTERSECTION SHALL BE BAGGED DURING STAGE III OF THE MAINTENANCE OF TRAFFIC STAGING, AND UNBAGGED WHEN APPROPRIATE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	68
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED AID PROJECT CMM-7003 (750)	

CONTRACT NO. 83727



TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- VIDEO DETECTION
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH

NOTES:

NONE OF THE EXISTING TRAFFIC SIGNAL HARDWARE SHALL BE REMOVED UNTIL THE TEMPORARY TRAFFIC SIGNAL INSTALLATION HAS BEEN INSTALLED AND TESTED.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EACH

- THE FOLLOWING EXISTING SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 1 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 1 EACH SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, MAST ARM MOUNTED
- 1 EACH TRAFFIC SIGNAL POST
- 1 EACH TRAFFIC SIGNAL BACKPLATE
- 1682 FOOT REMOVE ELECTRICAL CABLE FROM CONDUIT

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

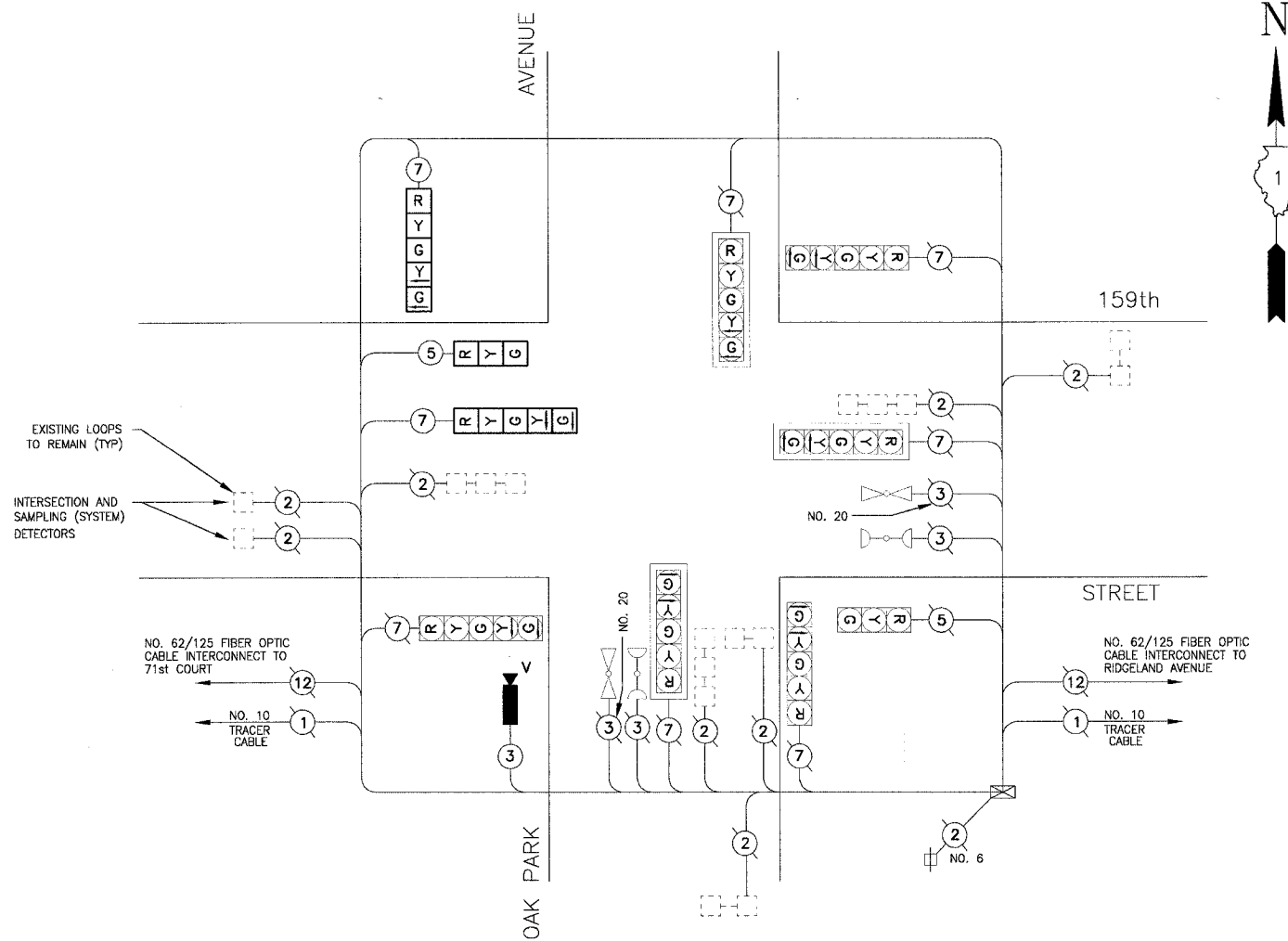
REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-08
NJP	5-19-08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY TRAFFIC SIGNAL PLAN
 AND EXISTING PARTIAL TRAFFIC SIGNAL
 REMOVAL PLAN
 OAK PARK AVENUE AT
 159th STREET

SCALE: 1" = 20'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

I:\OAKP\2014\DWG\20146-SONE.dwg
 Plotted by: [Name]
 Date: 6/1/2004
 State of Illinois - Professional Design Firm
 License No. 184-001121 - Expires 4-30-05

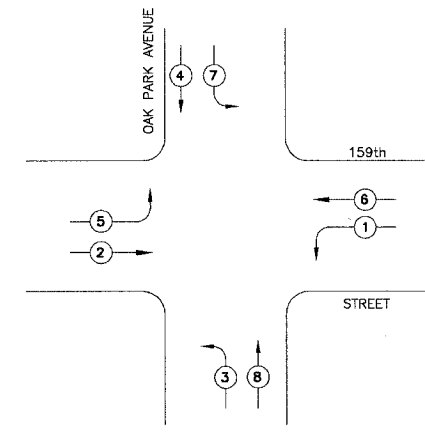


NOTE: ALL LOOPS SHOWN ARE EXISTING TO REMAIN
TEMPORARY CABLE DIAGRAM

TEMPORARY CABLE DIAGRAM LEGEND

- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- [X] TEMPORARY CONTROLLER CABINET
- [E] TEMPORARY SERVICE INSTALLATION
- (S) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- [V] EMERGENCY VEHICLE LIGHT DETECTOR
- [B] CONFIRMATION BEACON
- [□] VEHICLE DETECTOR, INDUCTION LOOP
- [○] PEDESTRIAN PUSHBUTTON DETECTOR
- [P] 12" PEDESTRIAN SIGNAL SECTION
- [V] VIDEO DETECTION

CONTROLLER SEQUENCE

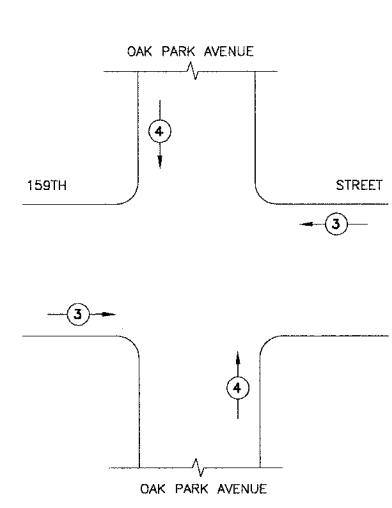


- LEGEND
- ← ○ → DUAL ENTRY PHASE
 - ← ○ → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

NOTE: STAGING PER SUGGESTED MAINTENANCE OF TRAFFIC SHALL BE AS FOLLOWS:

- STAGE I : NO CHANGE
- STAGE II : MOVEMENT 4 AND 7 WILL NOT EXIST, BAG HEADS
- STAGE III : MOVEMENT 8 AND 5 WILL NOT EXIST, BAG HEADS



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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	INCAND. WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	0.50	675
(YELLOW)	10	135	0.25	337.5
(GREEN)	10	135	0.25	337.5
ARROW	16	135	0.10	216
PED. SIGNAL	-	90	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				1566

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

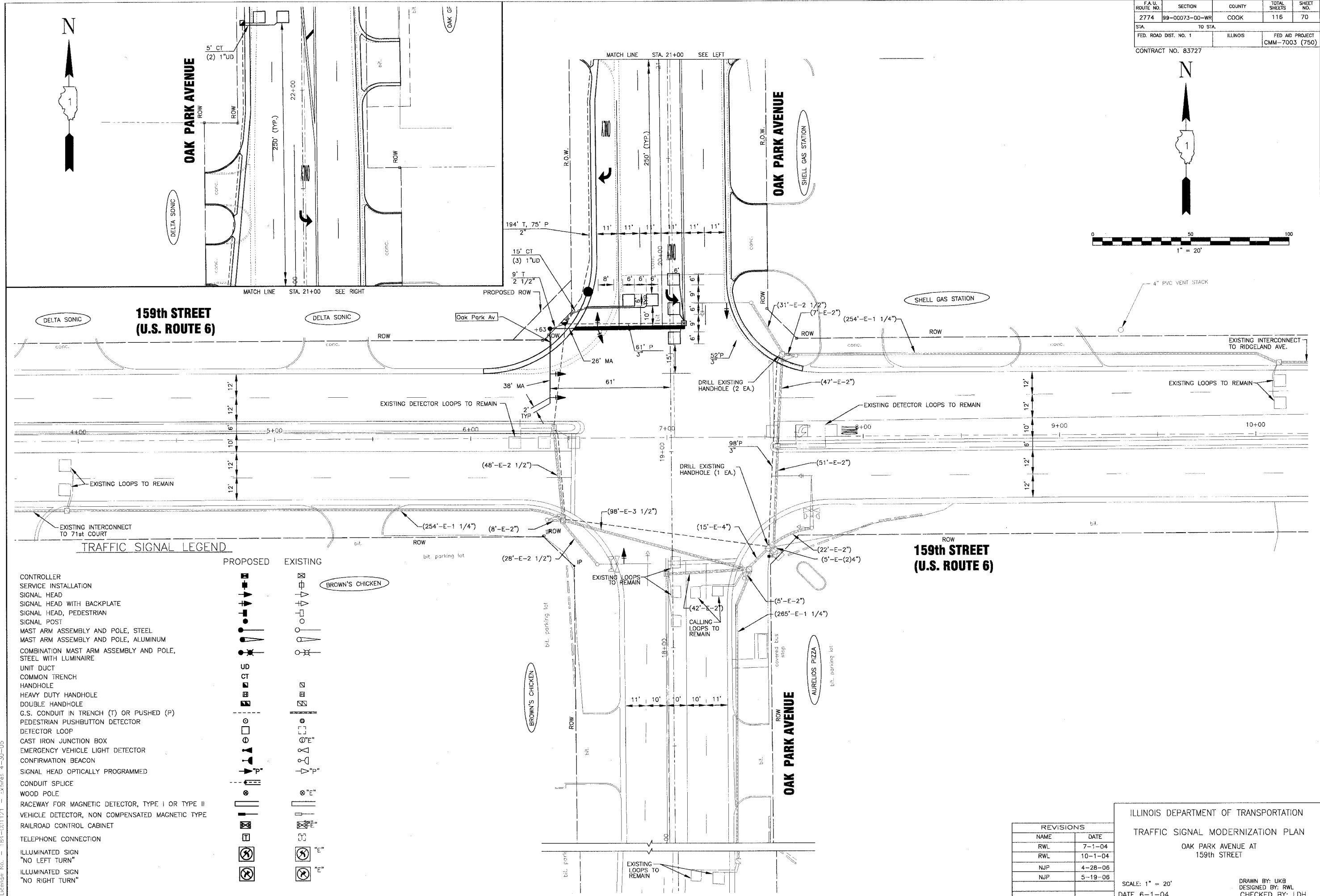
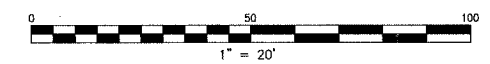
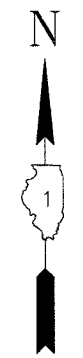
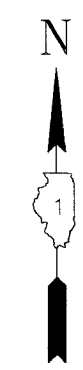
ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE AND PHASE DESIGNATION DIAGRAM OAK PARK AVENUE AT 159th STREET

SCALE: NONE
DATE: 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: RWL

I:\OAKP\200146\DWG\200146-231.E.dwg
 Printed: 6-06-06 @ 2:36pm By: 33473
 State of Illinois Professional Design Firm
 License No. 187-001121 - Expires 4-30-05



TRAFFIC SIGNAL LEGEND

- | | | | |
|--|--|----------|--|
| CONTROLLER | | EXISTING | |
| SERVICE INSTALLATION | | EXISTING | |
| SIGNAL HEAD | | EXISTING | |
| SIGNAL HEAD WITH BACKPLATE | | EXISTING | |
| SIGNAL HEAD, PEDESTRIAN | | EXISTING | |
| SIGNAL POST | | EXISTING | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | EXISTING | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | EXISTING | |
| COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE | | EXISTING | |
| UNIT DUCT | | EXISTING | |
| COMMON TRENCH | | EXISTING | |
| HANDHOLE | | EXISTING | |
| HEAVY DUTY HANDHOLE | | EXISTING | |
| DOUBLE HANDHOLE | | EXISTING | |
| G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) | | EXISTING | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | EXISTING | |
| DETECTOR LOOP | | EXISTING | |
| CAST IRON JUNCTION BOX | | EXISTING | |
| EMERGENCY VEHICLE LIGHT DETECTOR | | EXISTING | |
| CONFIRMATION BEACON | | EXISTING | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | EXISTING | |
| CONDUIT SPLICE | | EXISTING | |
| WOOD POLE | | EXISTING | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | EXISTING | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | EXISTING | |
| RAILROAD CONTROL CABINET | | EXISTING | |
| TELEPHONE CONNECTION | | EXISTING | |
| ILLUMINATED SIGN "NO LEFT TURN" | | EXISTING | |
| ILLUMINATED SIGN "NO RIGHT TURN" | | EXISTING | |

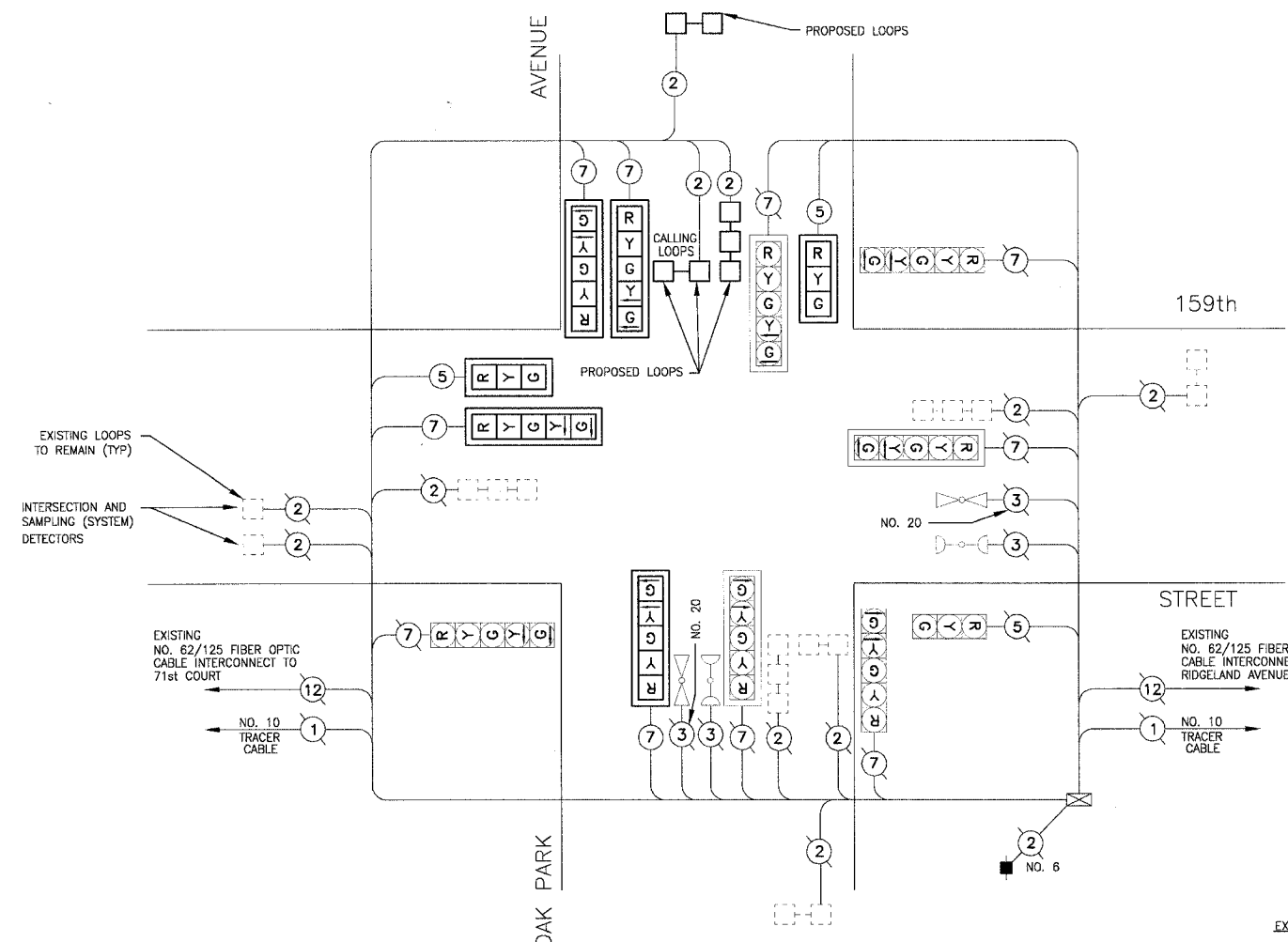
REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL MODERNIZATION PLAN
 OAK PARK AVENUE AT
 159th STREET

SCALE: 1" = 20'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

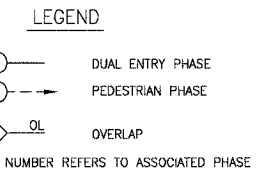
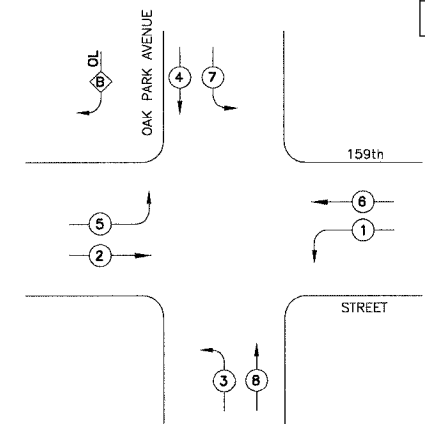
I:\OAKP\020116\DWG\20146-SSN-LS.dwg
 Plotted: 6/1/06
 Date: 6/1/06
 State of Illinois Professional Design Firm
 License No. 184-001121 - Expires: 4-30-05



CABLE DIAGRAM

NOTE: ALL LOOPS SHOWN ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED

CONTROLLER SEQUENCE



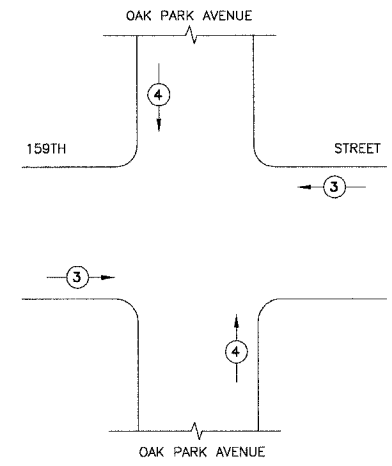
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
B	= 4	+ 5	- 4

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	→ ↑

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	9
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	194
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	9
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	75
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	211
HANDHOLE	EACH	2
HEAVY DUTY HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	203
MAINTAINANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	510
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1157
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1138
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	15
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	293
TEMPERARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1805
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 26 FT.	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2"
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
24"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	INCAND. WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135	0.50	877.50
(YELLOW)	13	135	0.25	438.75
(GREEN)	13	135	0.25	438.75
ARROW	10	135	0.10	135
PED. SIGNAL	-	90	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				1990

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

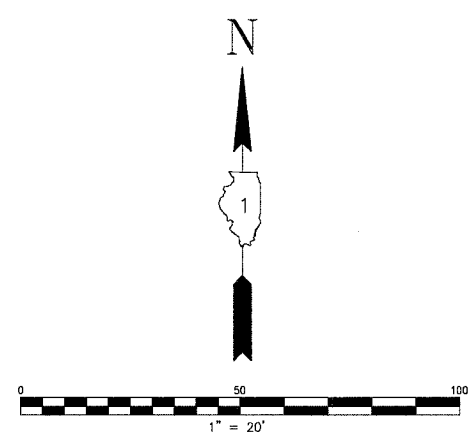
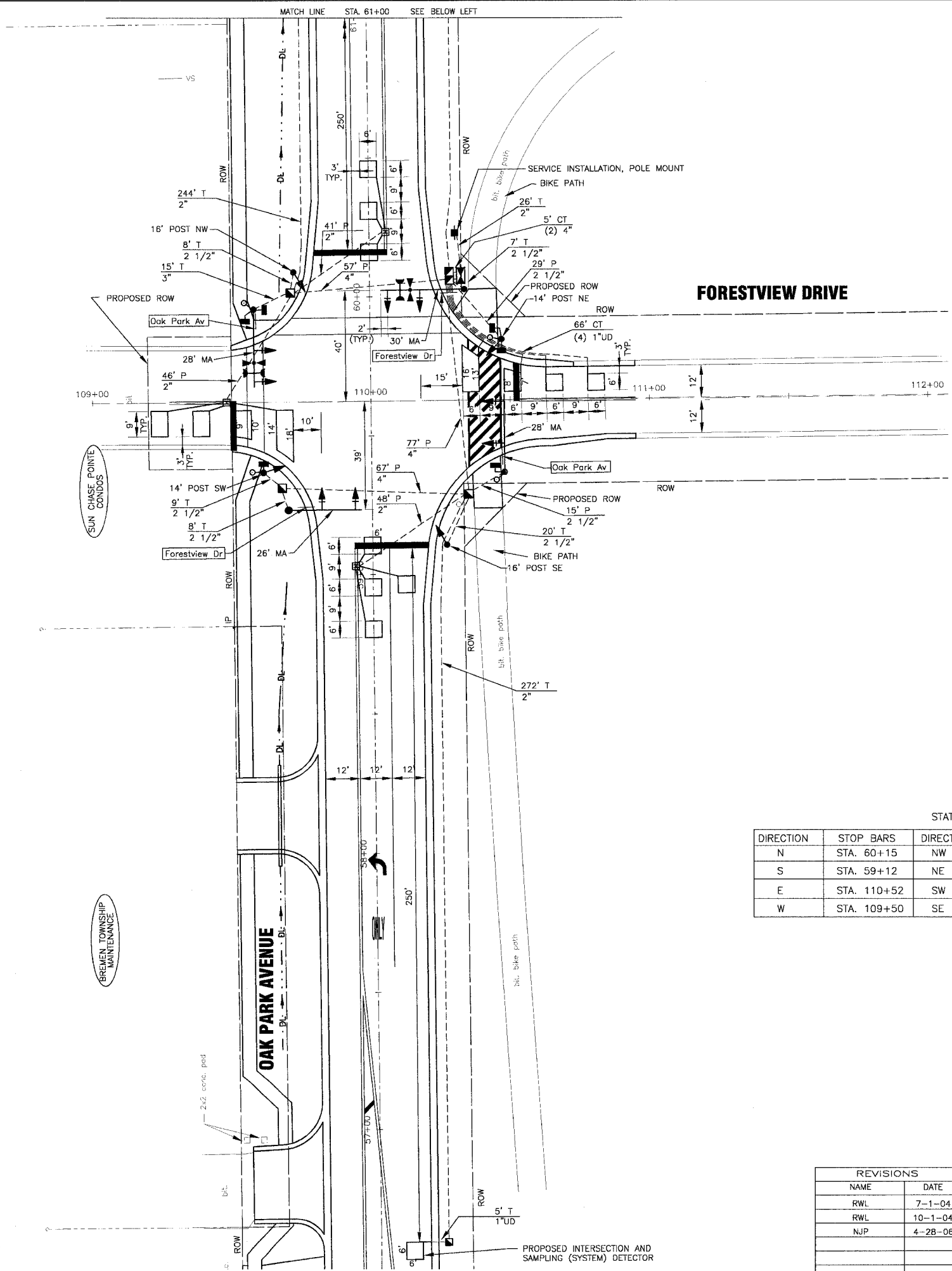
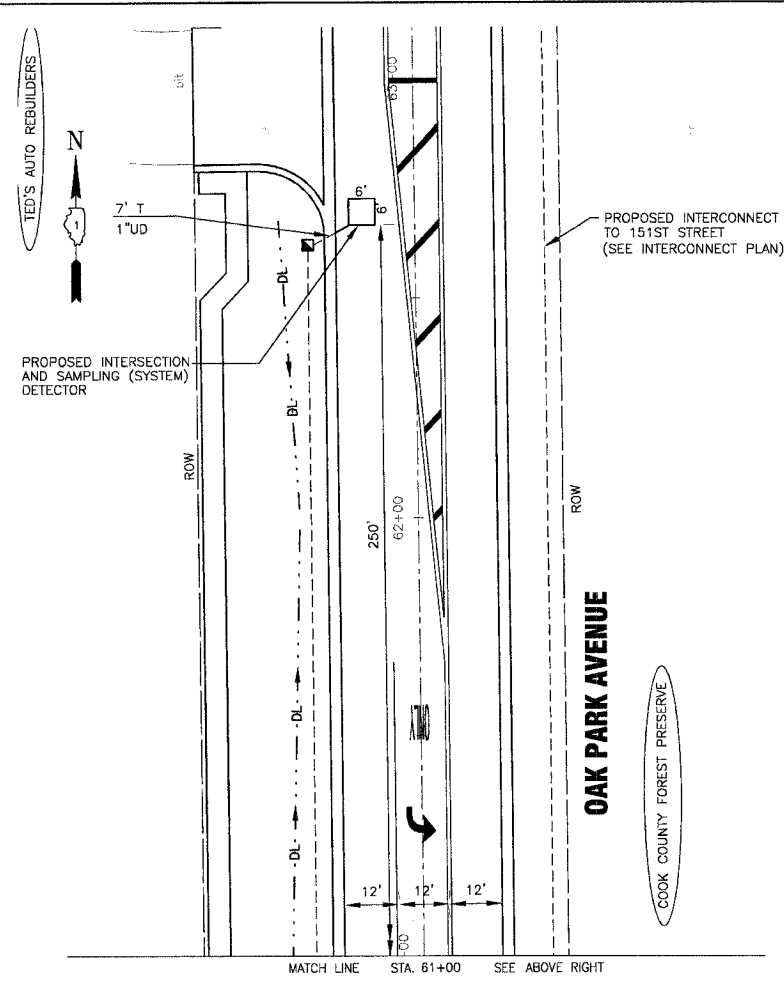
ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE AND PHASE DESIGNATION DIAGRAM OAK PARK AVENUE AT 159th STREET

SCALE: NONE DATE: 6-1-04

DRAWN BY: UKB DESIGNED BY: RWL CHECKED BY: RWL

I:\OAKP\020146\DWG\20146-CBL.dwg
 Plotted: 6-06-06 @ 2:36pm By: 354n.p
 Copyright © 2004, By: Baxter & Woodruff, Inc.
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-05



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		

STATION OFFSETS

DIRECTION	STOP BARS	DIRECTION	MAST ARM	SIGNAL POST
N	STA. 60+15	NW	STA. 59+96, 42' LT.	STA. 60+09, 28' LT.
S	STA. 59+12	NE	STA. 60+02, 34' RT.	STA. 59+84, 47' RT.
E	STA. 110+52	SW	STA. 59+23, 30' LT.	STA. 59+38, 39' LT.
W	STA. 109+50	SE	STA. 59+37, 48' RT.	STA. 59+11, 27' RT.

REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

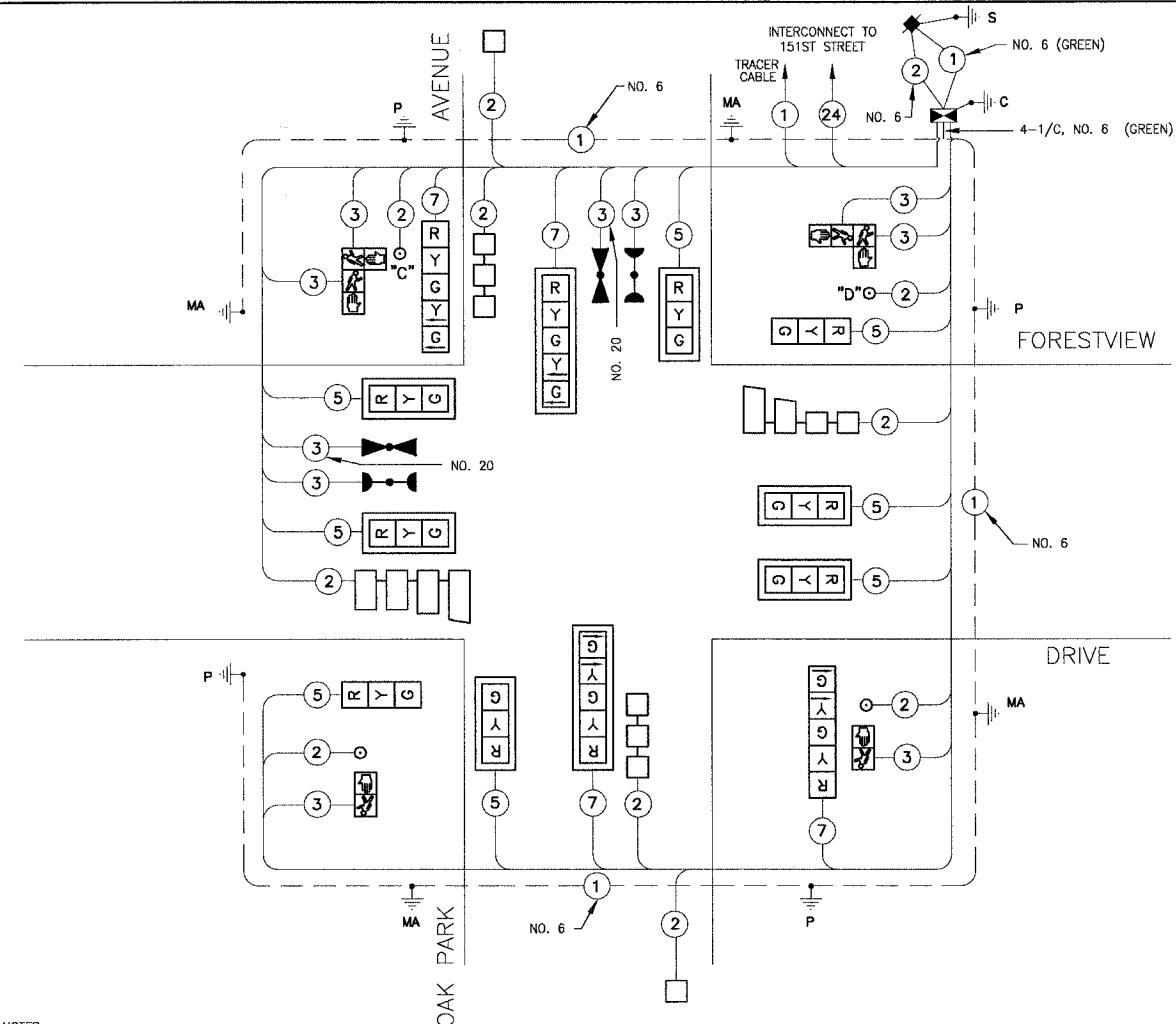
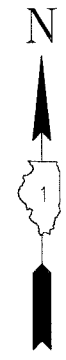
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL INSTALLATION PLAN
 OAK PARK AVENUE AT
 FORESTVIEW DRIVE

SCALE: 1" = 20'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

I:\OAKPT\020148\DWG\00148-SIGNALS.dwg
 Plot: 11/06/06 10:27 AM
 Copyright © 2004, By Barkley & Woodruff, Inc.
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-05

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	73
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT CMM-7003 (750)		
CONTRACT NO. 83727				



NOTES:
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE DIAGRAM

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	36
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	552
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	52
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	15
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	135
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	44
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	201
HANDHOLE	EACH	5
HEAVY DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	629
FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	498
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	964
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1232
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	575
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1347
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	42
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	60
TRAFFIC SIGNAL BACKPLATE, LDUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE 1	FOOT	760
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	4
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	462
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	241
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	2

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
		24"	10"	CONTROLLER CAB.	6
		30"	15	FIBER OPTIC	13
				ELECTRIC SERVICE	13.5
				ELECTRIC SERVICE	1
				SERVICE TO GROUND	13.5
				GROUND CABLE	1
				POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102
(YELLOW)	12	25	0.25	75
(GREEN)	12	15	0.25	45
ARROW	8	12	0.10	10
PED. SIGNAL	6	25	1.00	150
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				482

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAMBOURG, IL 60196-1096

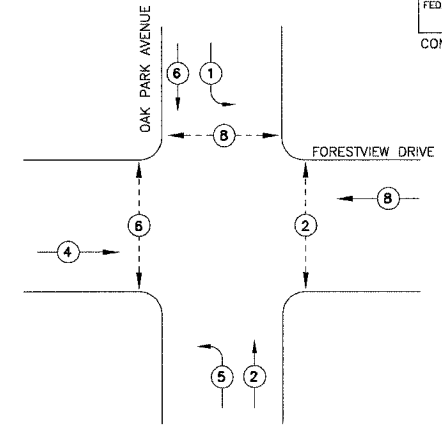
ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

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

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN NO LEFT TURN
		ILLUMINATED SIGN NO RIGHT TURN
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

CONTROLLER SEQUENCE

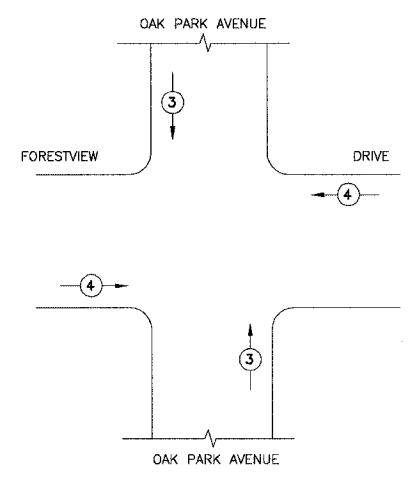


PHASE DESIGNATION DIAGRAM

LEGEND

	DUAL ENTRY PHASE
	PEDESTRIAN PHASE
	OVERLAP

* NUMBER REFERS TO ASSOCIATED PHASE



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	MOVEMENT
3	↑ ↓
4	← →

REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL

CABLE AND PHASE DESIGNATION DIAGRAM

OAK PARK AVENUE AT FORESTVIEW DRIVE

SCALE: NONE

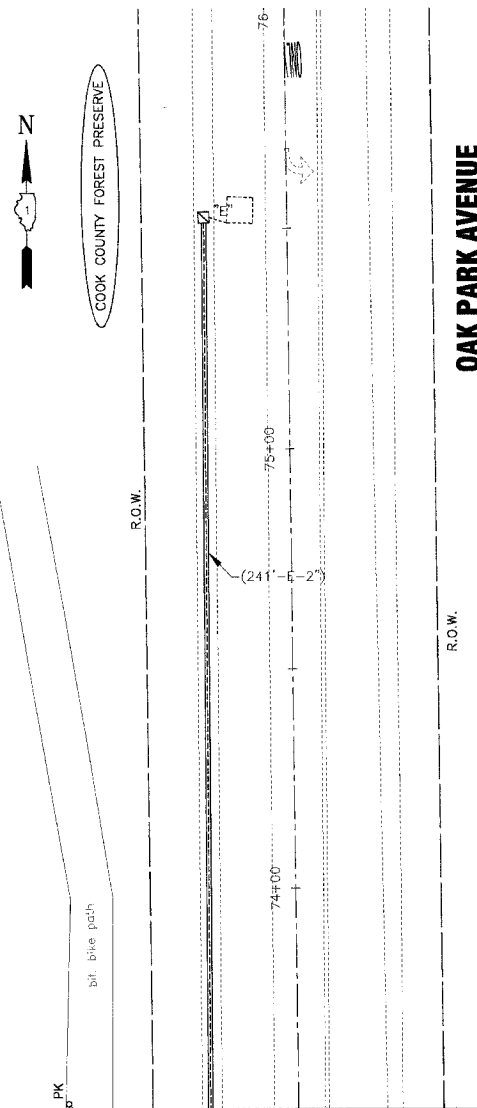
DATE: 6-1-04

DRAWN BY: UKB

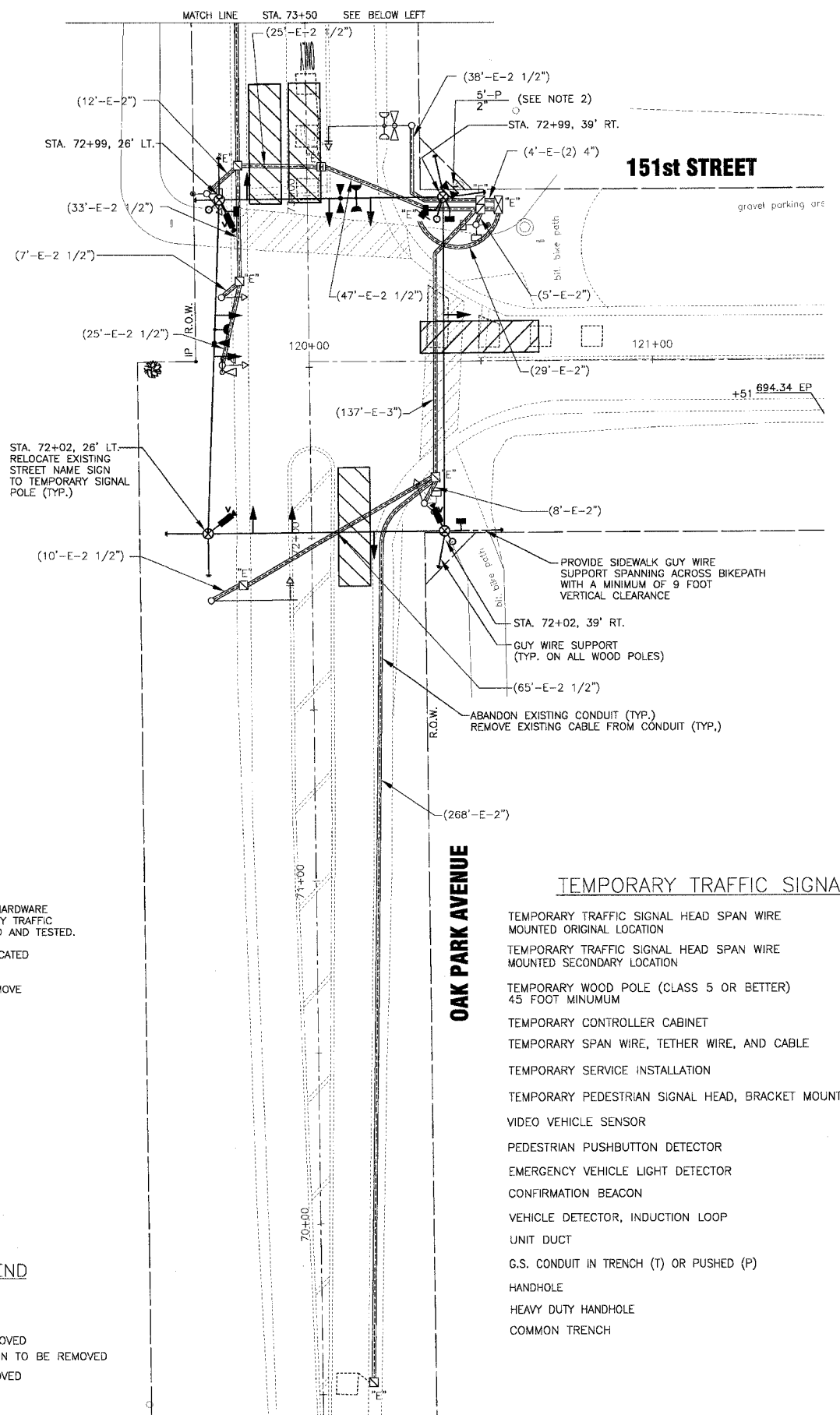
DESIGNED BY: RWL

CHECKED BY: RWL

I:\QWERTY\020146\DWG\20146-CABLE.dwg
 Plotter: 6-06-06 @ 2:37pm By: 3544/p
 Copyright © 2004, By Baxter & Woodman, Inc.
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-05



OAK PARK AVENUE



151st STREET

OAK PARK AVENUE

NOTES:

- NONE OF THE EXISTING TRAFFIC SIGNAL HARDWARE SHALL BE REMOVED UNTIL THE TEMPORARY TRAFFIC SIGNAL INSTALLATION HAS BEEN INSTALLED AND TESTED.
- INSTALL NEW ELECTRIC SERVICE ON RELOCATED POWER POLE.
- ABANDON ALL EXISTING CONDUIT AND REMOVE EXISTING CABLE FROM CONDUIT.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - 1 EACH

THE FOLLOWING EXISTING SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH SIGNAL HEAD, 1-FACE, 3 SECTION, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, BRACKET MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED
- 1 EACH SIGNAL HEAD, 1-FACE, 5 SECTION, MAST ARM MOUNTED

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- VIDEO VEHICLE SENSOR
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH

NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT THE TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN AND EXISTING TRAFFIC SIGNAL REMOVAL PLAN

OAK PARK AVENUE AT 151st STREET

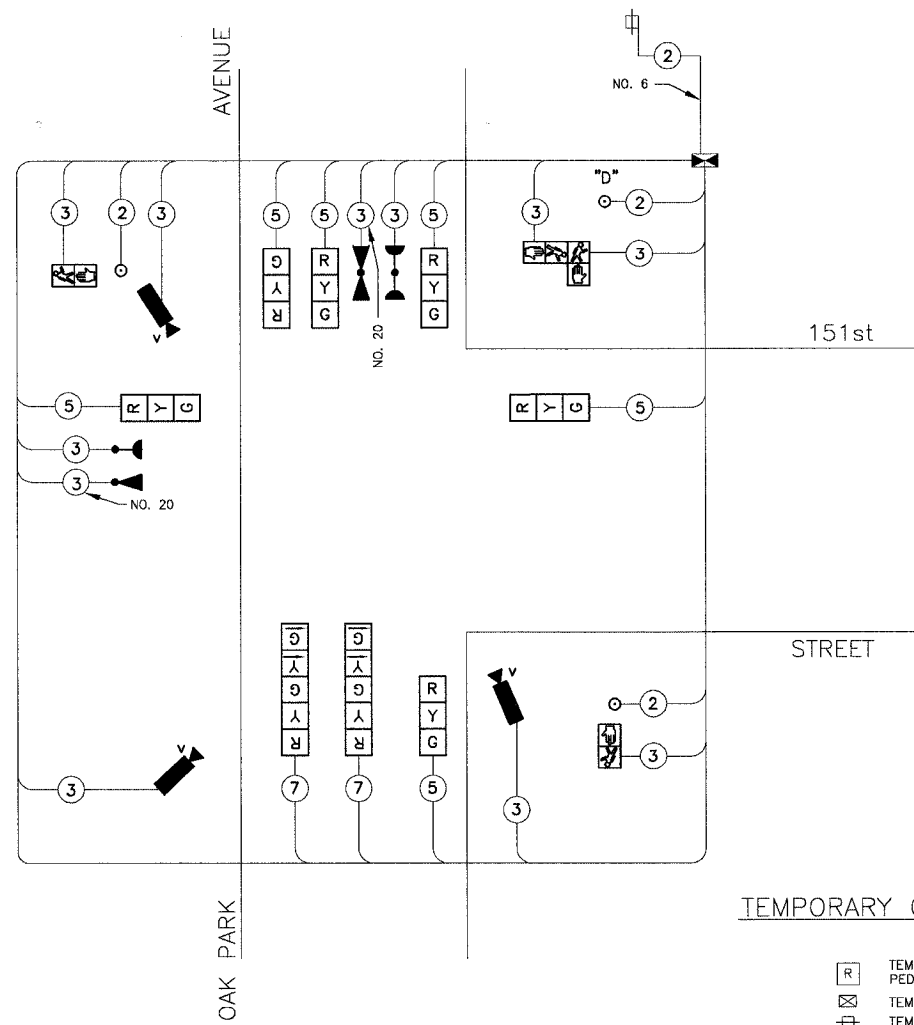
SCALE: 1" = 20'

DATE 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: LDH

L:\OAKP\020148\DWGS\20146-SGNLS.dwg
Plotter: 6-06-06 @ 2:37pm By: 354njp
Copyright © 2004, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-06

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	75
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECT		
CONTRACT NO. 83727		CMM-7003 (750)		



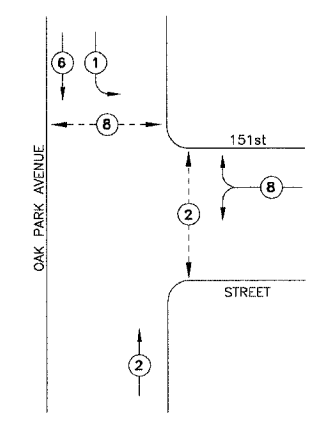
TEMPORARY CABLE DIAGRAM

NOTES:
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

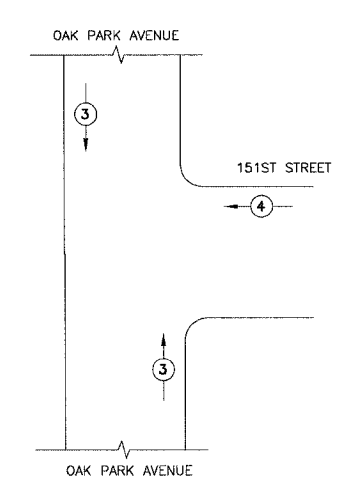
TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR

CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	LED WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	17	0.50	77
(YELLOW)	9	25	0.25	56
(GREEN)	9	15	0.25	34
ARROW	4	12	0.10	5
PED. SIGNAL	4	25	1.00	100
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				372

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1
(ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-0196

ENERGY SUPPLY CONTACT: JULIE SNOW
PHONE: 1-866-639-3532
COMPANY: COMMONWEALTH EDISON

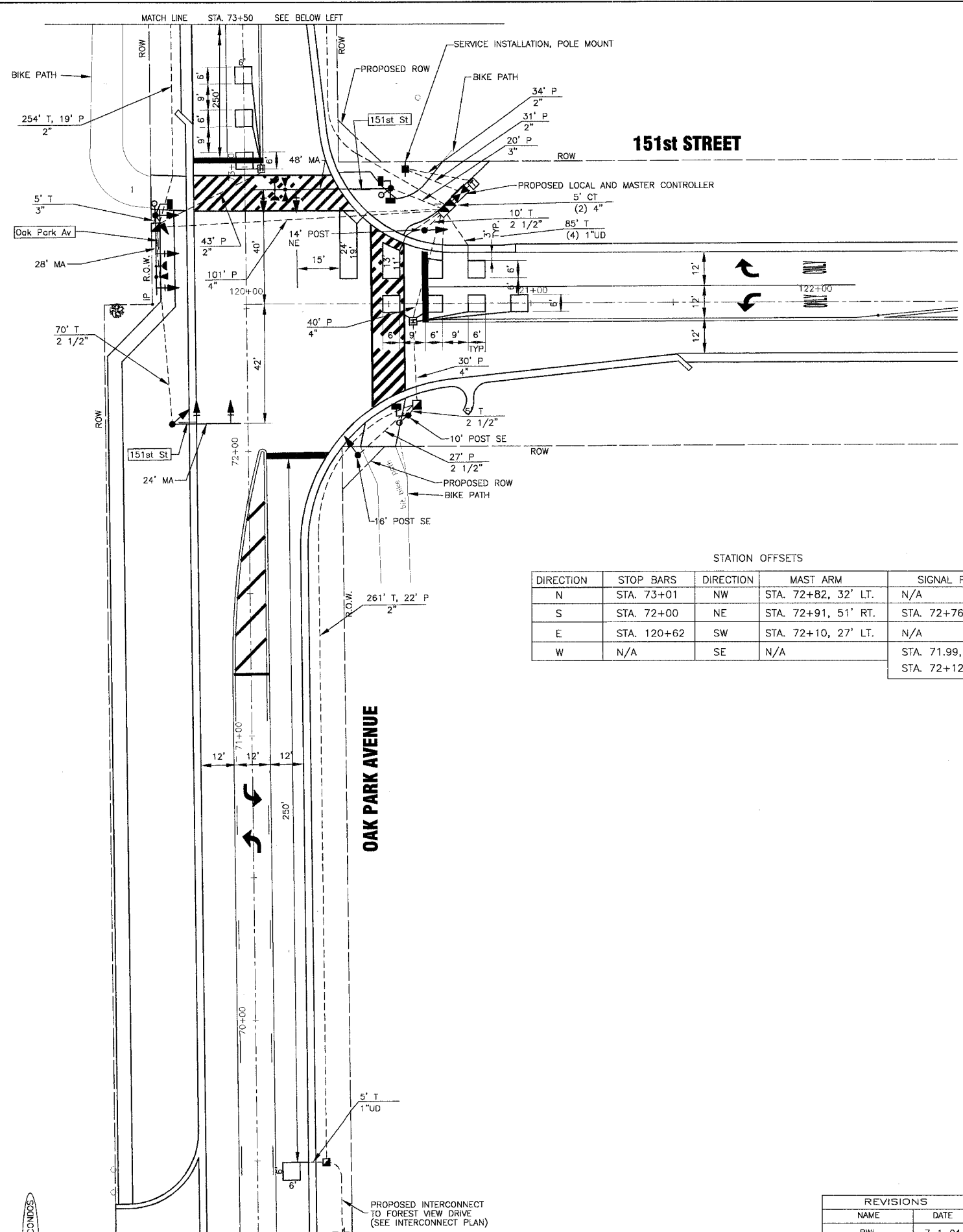
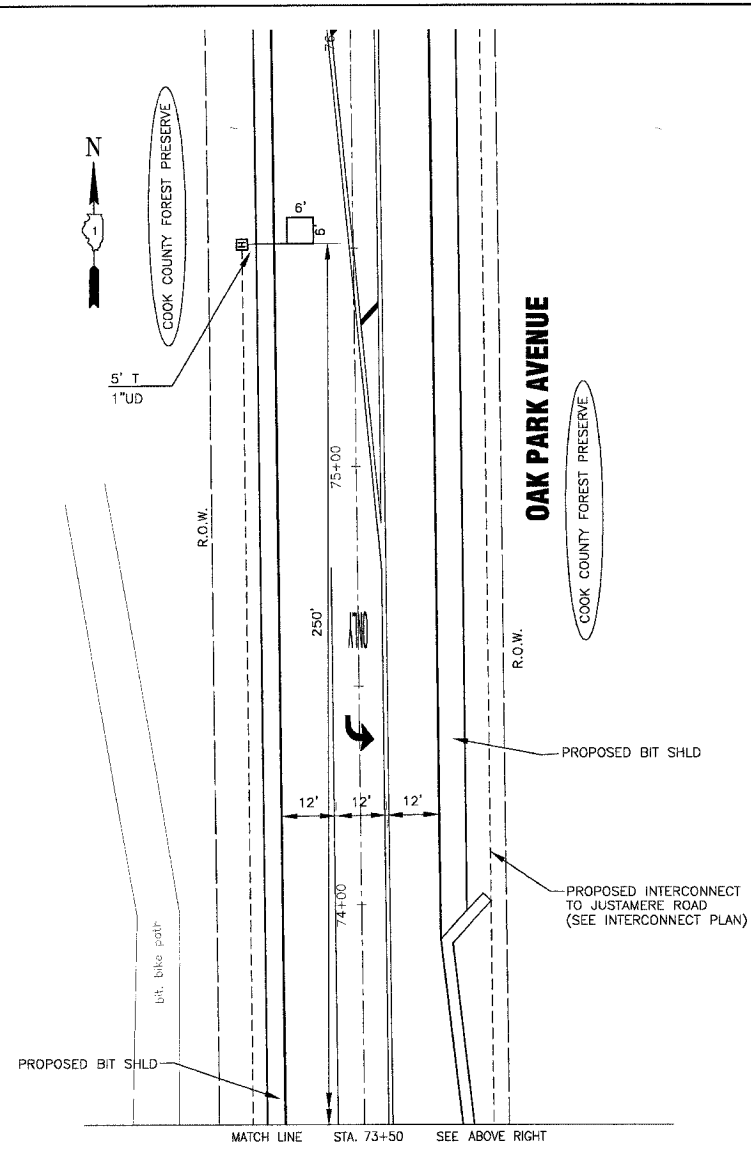
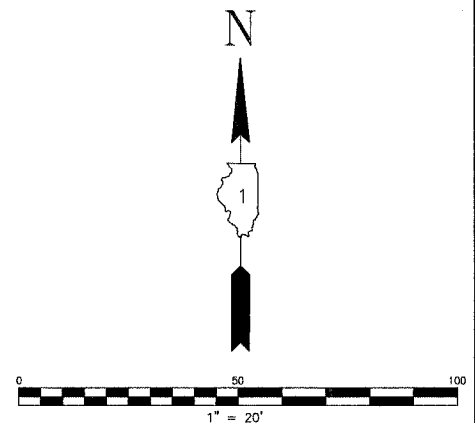
REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY TRAFFIC SIGNAL
CABLE AND PHASE DESIGNATION DIAGRAM
OAK PARK AVENUE AT
151st STREET

SCALE: NONE
DATE: 6-1-04

DRAWN BY: UKB
DESIGNED BY: RWL
CHECKED BY: RWL

I:\OAK\200146\UNGS\20146-CBLE.dwg
 Plotted: 6-06-06 @ 2:38pm By: j54njp
 Copyright © 2004, By: Bayler & Woodruff, Inc.
 State of Illinois - Professional Design Firm
 License No. - 124-00112 - Expires 4-30-05



STATION OFFSETS

DIRECTION	STOP BARS	DIRECTION	MAST ARM	SIGNAL POST
N	STA. 73+01	NW	STA. 72+82, 32' LT.	N/A
S	STA. 72+00	NE	STA. 72+91, 51' RT.	STA. 72+76, 63' RT.
E	STA. 120+62	SW	STA. 72+10, 27' LT.	N/A
W	N/A	SE	N/A	STA. 71.99, 38' RT. STA. 72+12, 56' RT.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT		
COMMON TRENCH		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
TELEPHONE CONNECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		

REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL
 INSTALLATION PLAN**
 OAK PARK AVENUE AT
 151st STREET
 SCALE: 1" = 20'
 DATE 6-1-04
 DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

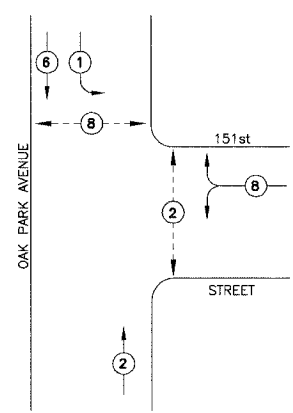
I:\CAKFT\200146\200146-CONLS.dwg
 Plot Date: 6/1/04
 State of Illinois - Professional Design Firm
 License No. - 184-001121 - Expires 4-30-05

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	77
STA.	TO STA.		FED. AID PROJECT	
FED. ROAD DIST. NO. 1	ILLINOIS		CMM-7003 (750)	
CONTRACT NO. 83727				

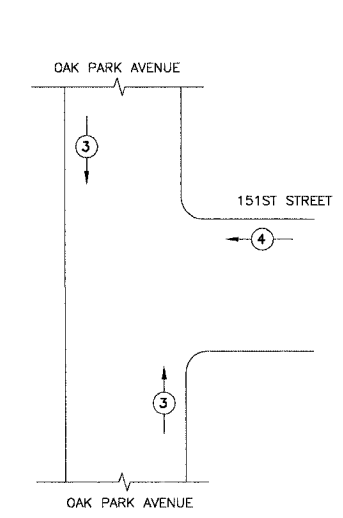
CABLE PLAN LEGEND

- | | |
|---|--|
| | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | CONTROLLER CABINET |
| | SERVICE INSTALLATION |
| | TELEPHONE INSTALLATION |
| | VEHICLE DETECTOR, INDUCTION LOOP |
| | MAGNETIC DETECTOR |
| | EMERGENCY VEHICLE LIGHT DETECTOR |
| | CONFIRMATION BEACON |
| | PUSHBUTTON DETECTOR |
| DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. | |
| | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. | |
| | RAILROAD CONTROL CABINET |
| | ILLUMINATED SIGN "NO LEFT TURN" |
| | ILLUMINATED SIGN "NO RIGHT TURN" |
| | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |

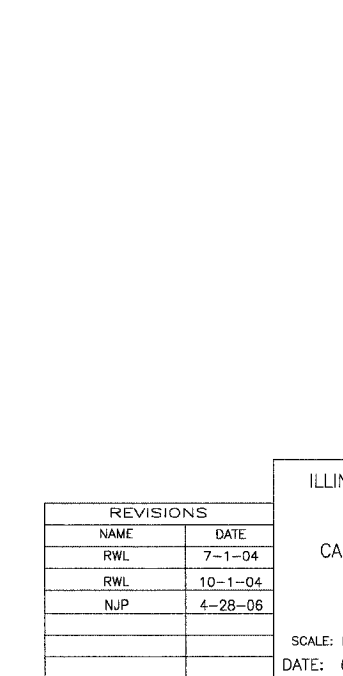
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



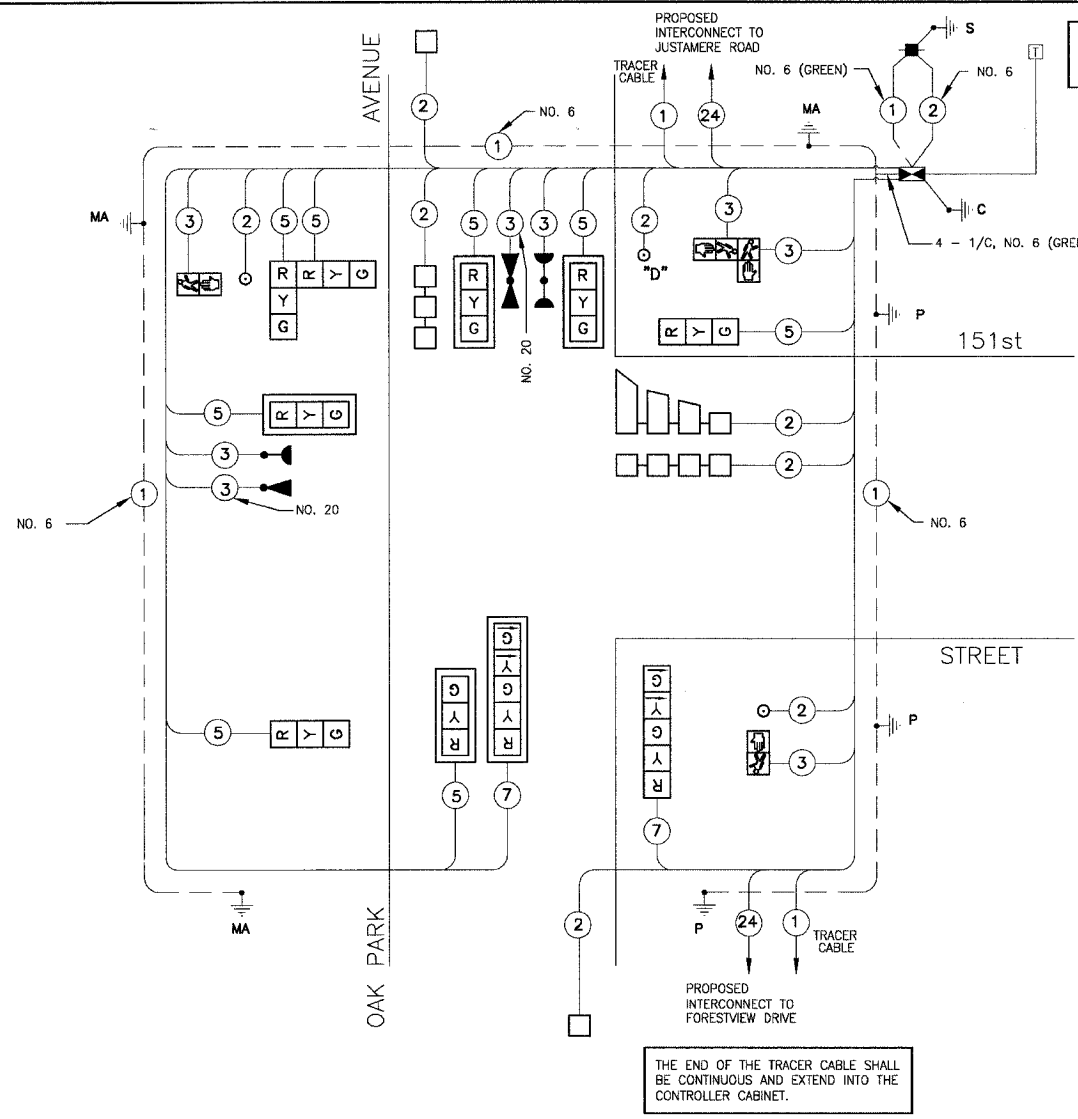
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	515
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	85
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	5
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	149
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	27
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	171
HANDHOLE HEAVY DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	615
FULL - ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	315
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	690
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1385
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	398
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1083
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	47
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36" DIAMETER	FOOT	15
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE 1	FOOT	593
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2771
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	445
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	288
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	1



CABLE DIAGRAM

NOTES:
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	LED WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102
(YELLOW)	12	25	0.25	75
(GREEN)	12	15	0.25	45
ARROW	4	12	0.10	5
PED. SIGNAL	4	25	1.00	100
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	-	-
FLASHER	-	-	0.50	-
TOTAL =				427

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK (FT.)	VERTICAL (FT.)	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED
24"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE
		ELECTRIC SERVICE	1	SERVICE TO GROUND
		GROUND CABLE	1	POST MOUNTED
				6

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE AND PHASE DESIGNATION DIAGRAM OAK PARK AVENUE AT 151ST STREET

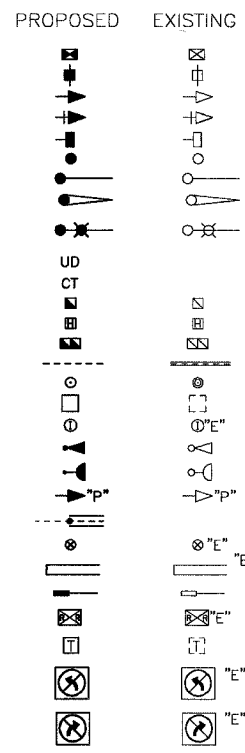
SCALE: NONE DATE: 6-1-04

DRAWN BY: UKB DESIGNED BY: RWL CHECKED BY: RWL

I:\DATA\1020146\DWG\20146-CBLE.dwg
Plotted: 6-06-06 @ 2:38pm By: 3544jlp
Copyright © 2004, By: Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. = 184-00112 - Expires 4-30-08

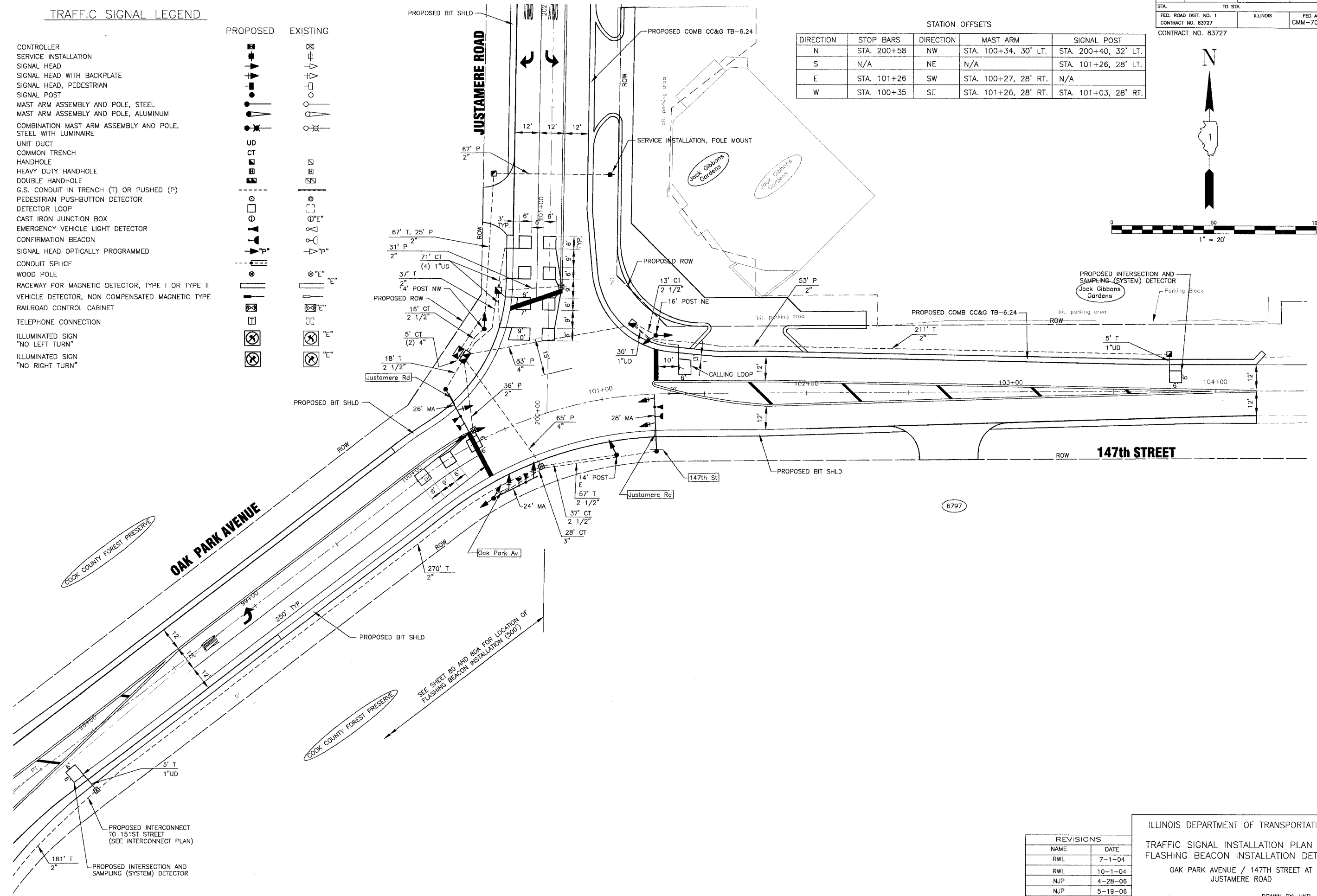
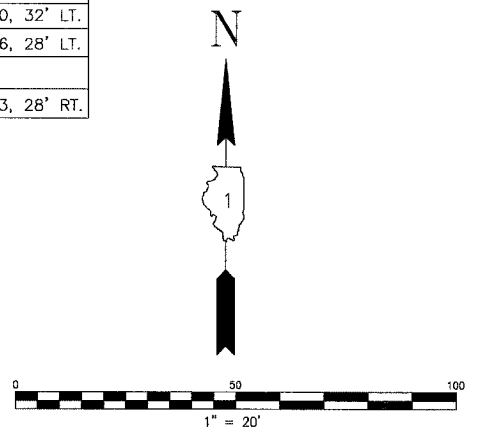
TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
- UNIT DUCT
- COMMON TRENCH
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET
- TELEPHONE CONNECTION
- ILLUMINATED SIGN "NO LEFT TURN"
- ILLUMINATED SIGN "NO RIGHT TURN"



STATION OFFSETS

DIRECTION	STOP BARS	DIRECTION	MAST ARM	SIGNAL POST
N	STA. 200+58	NW	STA. 100+34, 30' LT.	STA. 200+40, 32' LT.
S	N/A	NE	N/A	STA. 101+26, 28' LT.
E	STA. 101+26	SW	STA. 100+27, 28' RT.	N/A
W	STA. 100+35	SE	STA. 101+26, 28' RT.	STA. 101+03, 28' RT.



I:\JAK\11\2014\6\DW05\20146-SGNLS.dwg
 Plotted: 6-06-06 @ 2:29pm By: 354jlp
 Copyright © 2004, By: Boxier & Woodman, Inc.
 State of Illinois Professional Design Firm
 License No. 184-001121 - Expires 4-30-05

REVISIONS

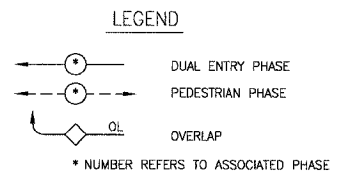
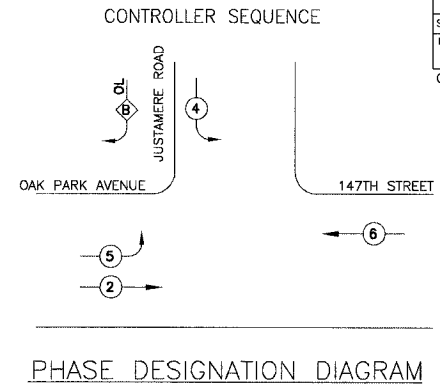
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL INSTALLATION PLAN AND
 FLASHING BEACON INSTALLATION DETAILS
 OAK PARK AVENUE / 147TH STREET AT
 JUSTAMERE ROAD

SCALE: 1" = 20'
 DATE 6-1-04

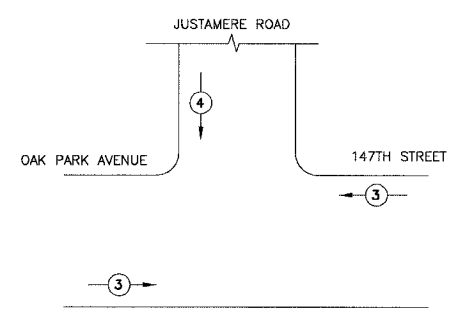
DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	79
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				



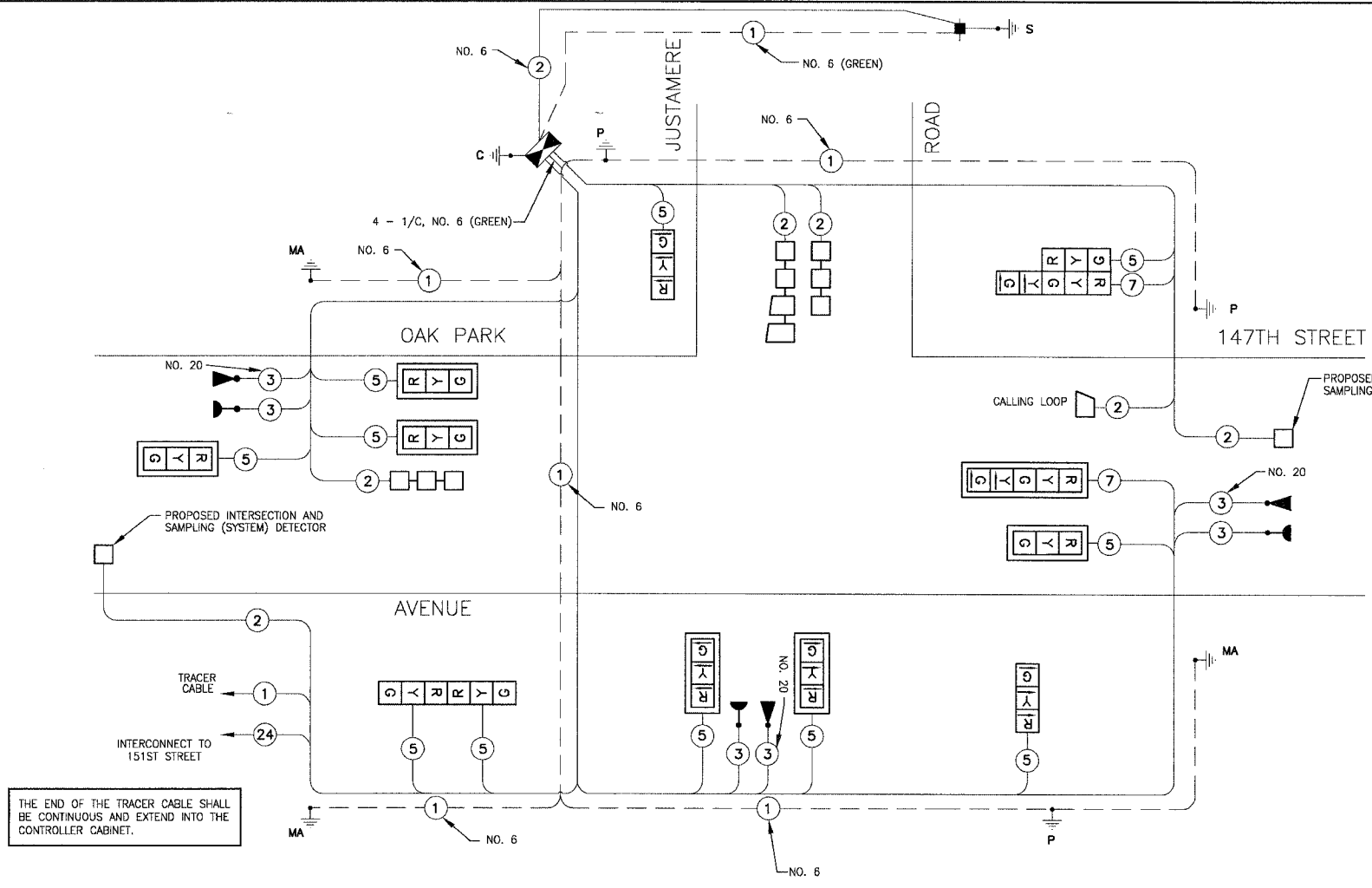
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
B	= 4	+ 5	- 4



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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN NO LEFT TURN
		ILLUMINATED SIGN NO RIGHT TURN
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	34
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	760
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	141
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	28
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	222
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	148
HANDHOLE	EACH	4
HEAVY DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1120
FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	887
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1399
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	338
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1051
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	199
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	45
TRAFFIC SIGNAL BACKPLATE, LDUVERED	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	407
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	533
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	443
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, BRACKET MOUNTED	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK (FT.)	VERTICAL (FT.)	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS
D - CONTROLLER	4	DOUBLE HANDHOLE	15	MAST ARM (L) POLE
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED
	24"	10"	6	CONTRROLLER CAB.
	30"	15"	13	FIBER OPTIC
			1	ELECTRIC SERVICE
			1	SERVICE TO GROUND
			1	POST MOUNTED
			6	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	17	0.50	77
(YELLOW)	9	25	0.25	56
(GREEN)	9	15	0.25	34
ARROW	16	12	0.10	19
PED. SIGNAL	-	25	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	1	25	0.50	13
TOTAL =				299

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-0196

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL

CABLE AND PHASE DESIGNATION DIAGRAM

OAK PARK AVENUE / 147 ST AT JUSTAMERE ROAD

SCALE: NONE

DATE: 6-1-04

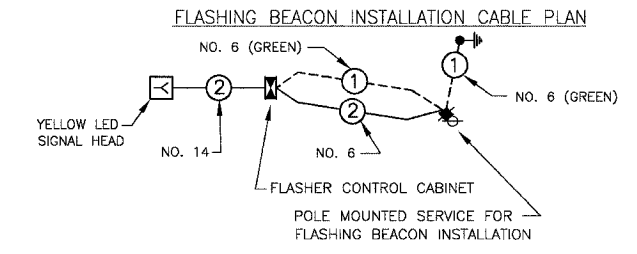
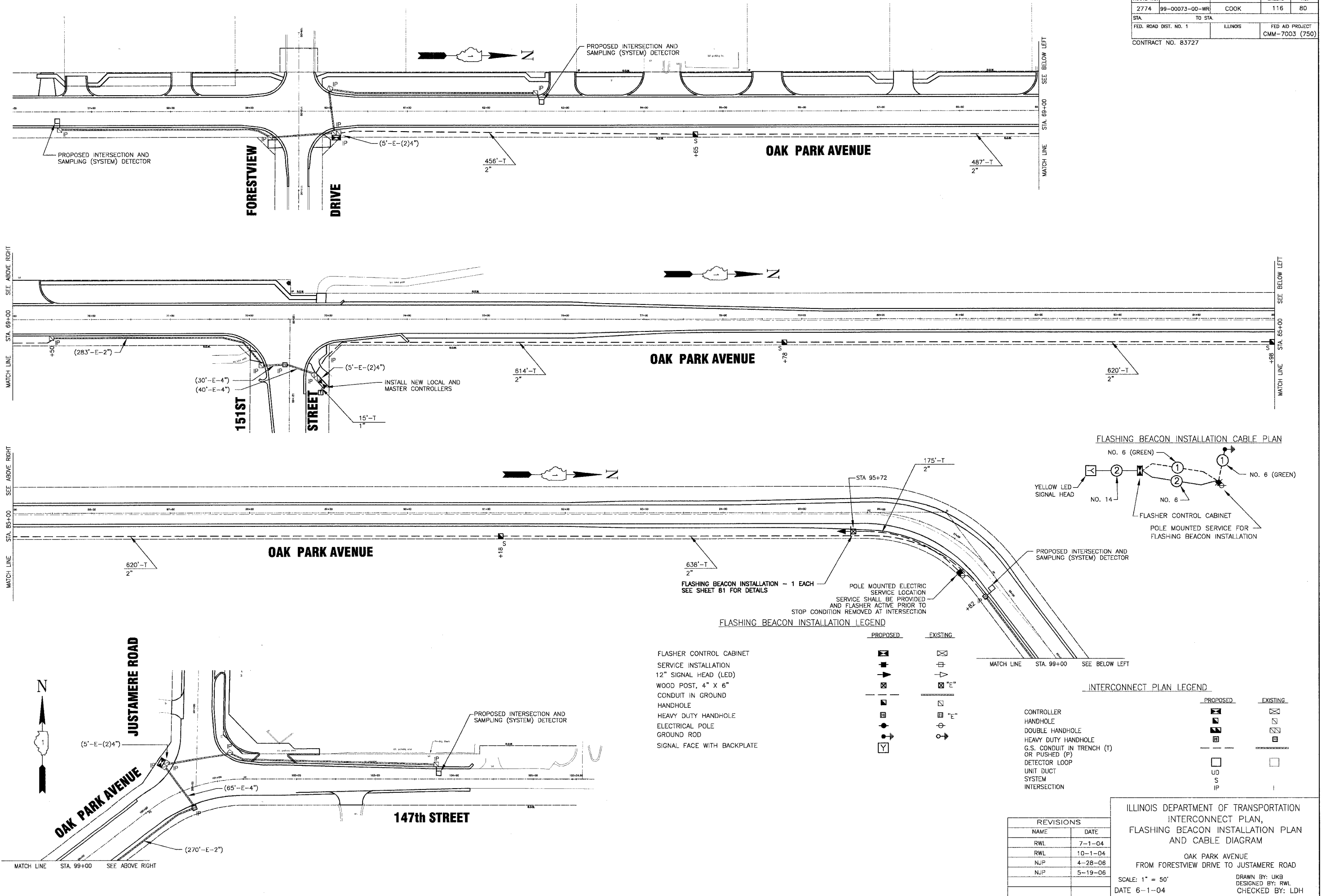
DRAWN BY: UKB

DESIGNED BY: RWL

CHECKED BY: RWL

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CONTRACT NO. 83727
 DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: RWL
 DATE: 6-1-04

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	80
STA.	TO STA.	FED. ROAD DIST. NO. 1		
		ILLINOIS		
			FED AID PROJECT	
			CMM-7003 (750)	
CONTRACT NO. 83727				



FLASHING BEACON INSTALLATION LEGEND

PROPOSED	EXISTING

INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING

REVISIONS

NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

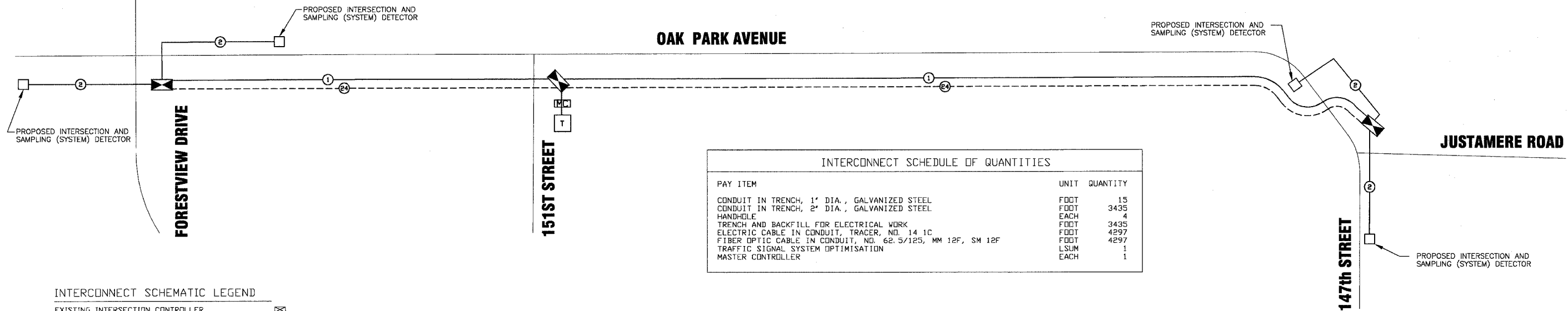
ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCONNECT PLAN,
 FLASHING BEACON INSTALLATION PLAN
 AND CABLE DIAGRAM

OAK PARK AVENUE
 FROM FORESTVIEW DRIVE TO JUSTAMERE ROAD

SCALE: 1" = 50'
 DATE 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: LDH

I:\OAKP\020146\DWG\20146-SCNLS.dwg
 P:ctext: 5-06-05 @ 2:35pm By: 5549jp
 Copyright © 2004, By: Barker & Woodman, Inc.
 State of Illinois - Professional Design Firm
 License No. - 184-00112 - Expires 4-30-05



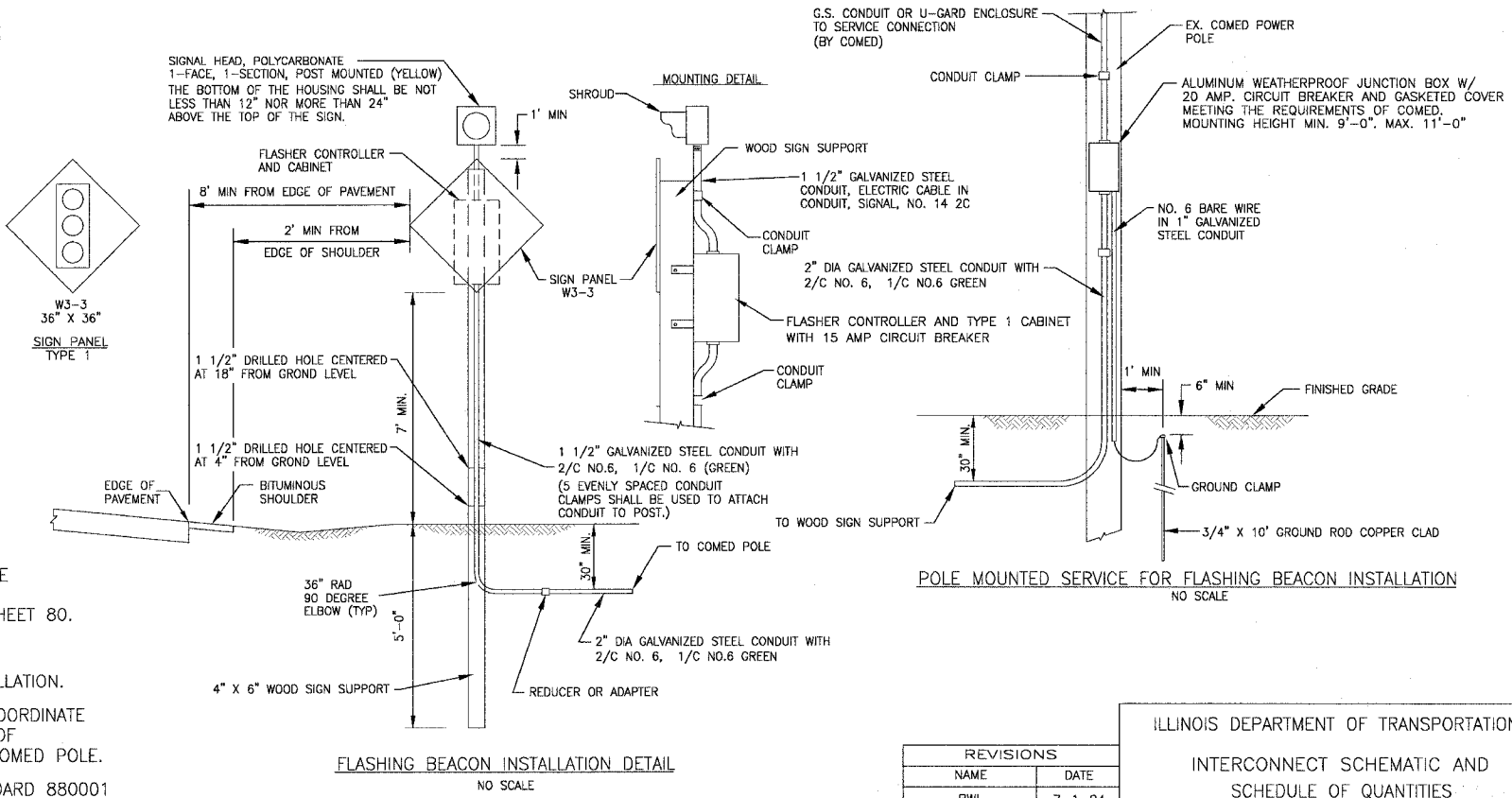
INTERCONNECT SCHEDULE OF QUANTITIES		
PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	15
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3435
HANDHOLE	EACH	4
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3435
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4297
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM 12F, SM 12F	FOOT	4297
TRAFFIC SIGNAL SYSTEM OPTIMISATION	LSUM	1
MASTER CONTROLLER	EACH	1

INTERCONNECT SCHEMATIC LEGEND

- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EXISTING MASTER CONTROLLER
- PROPOSED MASTER CONTROLLER
- MASTER MASTER CONTROLLER
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING INTERSECTION LOOP DETECTORS
- PROPOSED INTERSECTION (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING PERFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED PERFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) PERFORMED DETECTORS
- PROPOSED SAMPLING (SYSTEM) PERFORMED DETECTORS
- EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)
- PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)
- EXISTING TELEPHONE CONNECTION
- PROPOSED TELEPHONE CONNECTION

FLASHING BEACON INSTALLATION SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	QUANTITY
	FLASHING BEACON INSTALLATION	1 EACH
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	175 FOOT
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	175 FOOT
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	175 FOOT
X8050015	SERVICE INSTALLATION - POLE MOUNTED	1 EACH



- FLASHING BEACON INSTALLATION NOTES:**
- ALL ITEMS SHOWN ARE INCIDENTAL TO THE FLASHING BEACON INSTALLATION EXCEPT THOSE ITEMS SCHEDULED SEPARATELY ON SHEET 80.
 - STONE SCREENINGS AS REQUIRED BY STANDARD SPECIFICATION 730 SHALL BE INCIDENTAL TO THE FLASHING BEACON INSTALLATION.
 - THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH COMED PRIOR TO THE CONSTRUCTION OF THE PROPOSED SERVICE ON THE EXISTING COMED POLE.
 - CONTRACTOR SHALL REFER TO THE STANDARD 880001

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
 OAK PARK AVENUE
 FROM FOREST VIEW DRIVE TO JUSTAMERE ROAD

SCALE: NONE
 DATE: 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: RWL

I:\OAKP\020146\DWG\20146-08LE.dwg
 Plotted: 5-16-06 @ 2:38pm by: 354rjp
 Copyright © 2004, by Baxter & Woodman, Inc.
 All Rights Reserved
 License No. 84-00127 - Expires 4-30-05