

ITEM	SCHEDULE OF QUANTITIES	UNIT	QUANTITY
SIGN PANEL - TYPE 1		SO FT	32
SIGN PANEL - TYPE 2		SO FT	12
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL		FOOT	1095
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL		FOOT	84
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL		FOOT	45
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL		FOOT	143
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL		FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL		FOOT	407
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL		FOOT	66
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL		FOOT	590
CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL		FOOT	92
HANDHOLE		EACH	8
HEAVY-DUTY HANDHOLE		EACH	2
DOUBLE HANDHOLE		EACH	4
TRENCH AND BACKFILL FOR ELECTRICAL WORK		FOOT	894
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCIEVER - FIBER OPTIC		EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C		FOOT	1526
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C		FOOT	3243
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C		FOOT	5200
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C		FOOT	1630
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR		FOOT	7929
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C		FOOT	246
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.		EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.		EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.		EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT AND 24 FT		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 56 FT. AND 16 FT.		EACH	1
CONCRETE FOUNDATION, TYPE A		FOOT	16
CONCRETE FOUNDATION, TYPE C		FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER		FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER		FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED		EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED		EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED		EACH	4
SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED		EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED		EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED		EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED		EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM		EACH	18
INDUCTIVE LOOP DETECTOR		EACH	13
LIGHT DETECTOR		EACH	4
LIGHT DETECTOR AMPLIFIER		EACH	1
PEDESTRIAN PUSH-BUTTON		EACH	7
TEMPORARY TRAFFIC SIGNAL INSTALLATION		EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		EACH	1
REMOVE EXISTING HANDHOLE		EACH	14
REMOVE EXISTING CONCRETE FOUNDATION		EACH	6
PREFORMED DETECTOR LOOP		FOOT	937
TEMPORARY TRAFFIC SIGNAL TIMING		EACH	1
SERVICE INSTALLATION - POLE MOUNTED		EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C		FOOT	1062
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED		FOOT	1188
UNINTERRUPTIBLE POWER SUPPLY		EACH	1
TEMPORARY TRAFFIC SIGNAL INTERCONNECT		EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	26	135	17	0.50	221
(YELLOW)	24	135	25	0.25	162.5
(GREEN)	24	135	15	0.25	97.5
ARROW	0	135	12	0.10	
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO VEH. SENSOR		15	15	1.00	
FLASHER				0.50	
<b>TOTAL</b>					<b>781</b>

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAY/DISTRICT 1  
 201 CENTER CT/SCHAUMBURG, IL 60196-1096  
 ENERGY SUPPLY - CONTACT: DEB RANKIN  
 PHONE: 630-691-4379  
 COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	(FEET) (m)	CABLE SLACK	(FEET) (m)	VERTICAL	(FEET) (m)
TYPE A - POST	4 , (1.2)	HANDHOLE	6.5 , (2.0)	ALL FOUNDATION	1.0 , (2.0)
D - CONTROLLER	4 , (1.2)	DOUBLE HANDHOLE	13 , (4.0)	MAST ARM (1.) POLE	20'±L-2 = (6m±L-0.6m)
E - M. ARM POLE	( )	SIGNAL POST	2 , (1.0)	BRACKET MOUNTED	13 , (4.0)
24" (600mm)	10 , (3.0)	CONTROLLER CAB.	1 , (0.5)	PED. PUSHBOTTON	4 , (1.2)
30" (600mm)	15 , (4.5)	FIBER OPTIC	13 , (4.0)	ELECTRIC SERVICE	13.5 , (4.1)
36"	15 , (4.5)	ELECTRIC SERVICE	1 , (0.5)	SERVICE TO GROUND	13 , (4.1)
42"	15 , (4.5)	GROUND CABLE	1 , (0.5)	POST MOUNTED	6 , (1.8)

DESIGNED - TVN  
 DRAWN - TVN  
 CHECKED - RPD  
 DATE - 10/05/2009

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

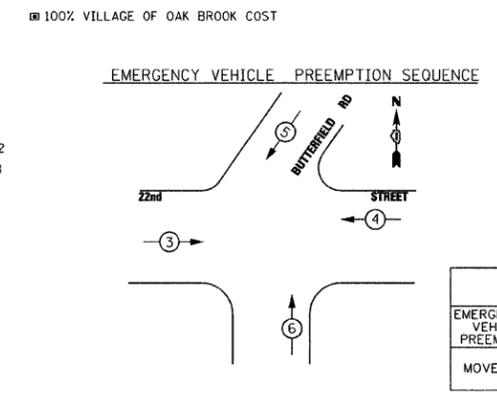
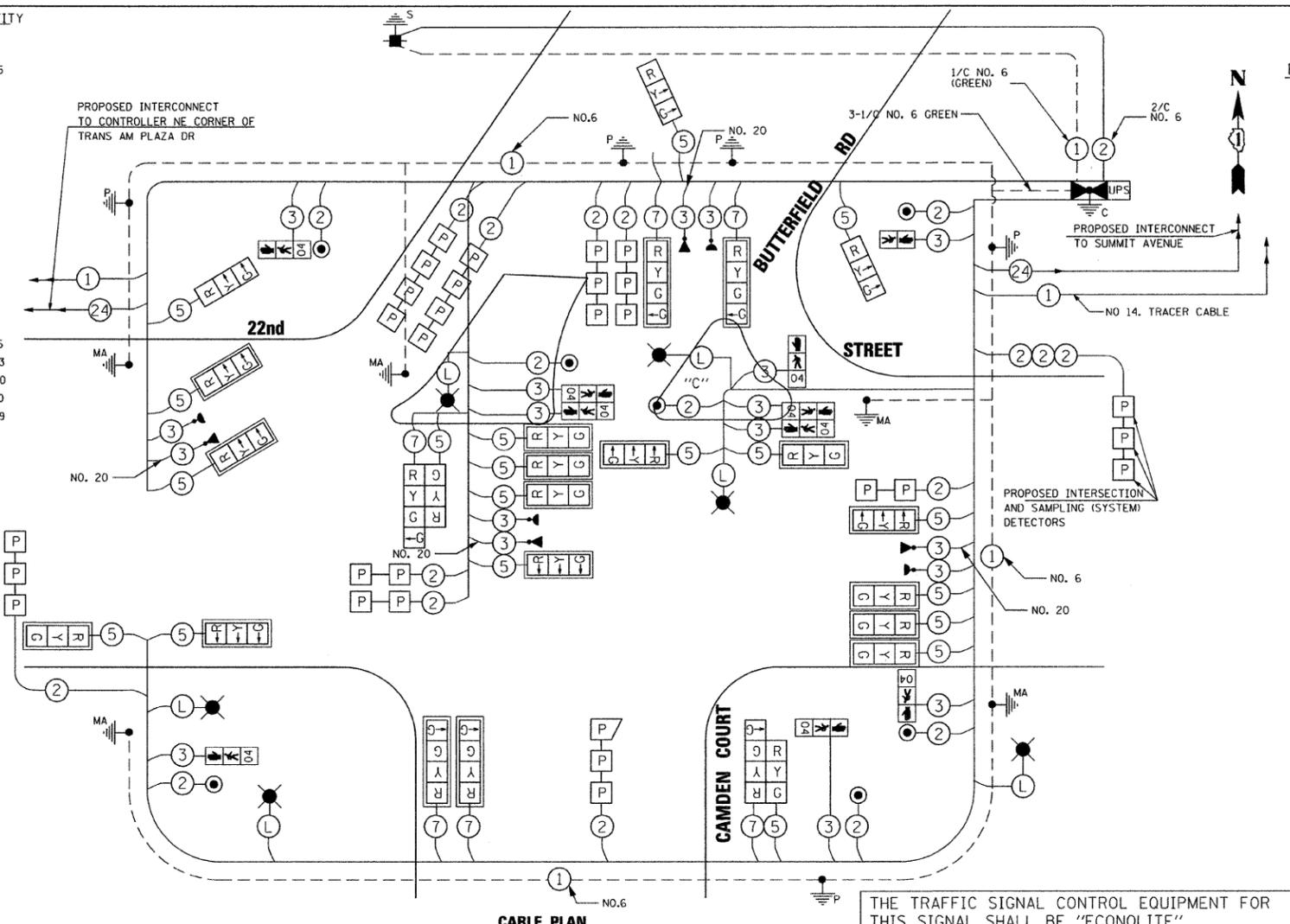
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

22nd STREET AT BUTTERFIELD RD (IL RTE 56)  
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 AND SCHEDULE OF QUANTITIES

SCALE: N/A SHEET NO. 198 OF 362 SHEETS STA. TO STA.

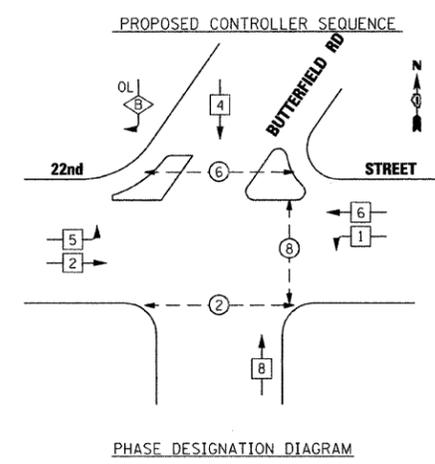
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	198

CONTRACT NO. 60D12



THE PROPOSED LIGHTING SYSTEM IS ON A SEPARATE CIRCUIT AND WILL BE MAINTAINED BY IDOT. FOR LIGHTING CIRCUITRY SEE SHEET 229 TO 231 FOR ADDITIONAL DETAILS.

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	←	↓	↑



CABLE PLAN LEGEND	
EXISTING	PROPOSED
[Symbol]	[Symbol] 8" (200mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol] 12" (300mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol] 12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol] 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
[Symbol]	[Symbol] CONTROLLER CABINET
[Symbol]	[Symbol] SERVICE INSTALLATION
[Symbol]	[Symbol] VEHICLE DETECTOR, INDUCTIVE LOOP
[Symbol]	[Symbol] MAGNETIC DETECTOR
[Symbol]	[Symbol] EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol] CONFIRMATION BEACON
[Symbol]	[Symbol] PUSHBUTTON DETECTOR
[Symbol]	[Symbol] DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol] SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol] "E" RAILROAD CONTROL CABINET
[Symbol]	[Symbol] "E" ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol] "E" ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol] GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol] GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol] GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol] GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol] FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
[Symbol]	[Symbol] UNINTERRUPTIBLE POWER SUPPLY (UPS)
[Symbol]	[Symbol] PREFORMED LOOP DETECTION
[Symbol]	[Symbol] WIRING CONNECT TO LIGHTING CONTROLLER

LEGEND		
[Symbol]	SINGLE ENTRY PHASE	
[Symbol]	DUAL ENTRY PHASE	
[Symbol]	OVERLAP	
[Symbol]	PEDESTRIAN PHASE	
[Symbol]	NUMBER REFERS TO ASSOCIATED PHASE	

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5

PUSH BUTTON NOTE:  
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8

FILE NAME: P:\2007\ME07081\22nd.Street\Cadd\Shs\0160D12-SHT-TS12-Butterf1e1d-02.dgn  
 PLOT SCALE: 28.00000 / IN.  
 USER NAME: Millenia Engineering

MILLENNIA ENGINEERING  
 200 22ND Street, Suite 216, Lombard, IL 60148  
 630.705.0110 voice, 630.839.2566 fax  
 www.milleniaeng.com

TS12