

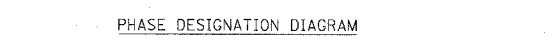
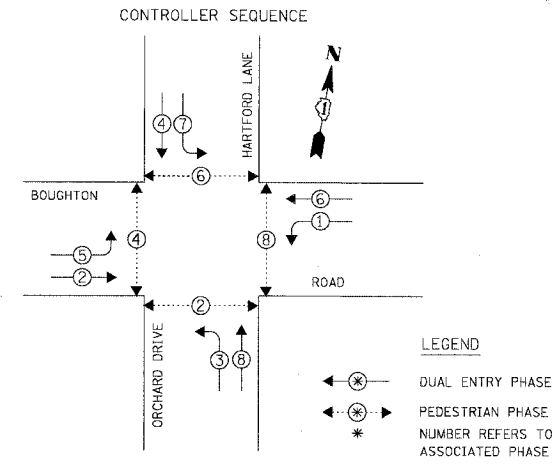
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3580	04-00043-00-TL	WILL	54	16
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT NO. 83855		

EXISTING	PROPOSED	DESCRIPTION
(G)	(R)	8" (200mm) TRAFFIC SIGNAL SECTION
(W)	(W)	12" (300mm) TRAFFIC SIGNAL SECTION
(W)	(W)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(W)	(W)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(C)	(C)	CONTROLLER CABINET
(S)	(S)	SERVICE INSTALLATION
(T)	(T)	TELEPHONE INSTALLATION
(V)	(V)	VEHICLE DETECTOR, INDUCTION LOOP
(M)	(M)	MAGNETIC DETECTOR
(E)	(E)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	CONFIRMATION BEACON
(P)	(P)	PUSHBUTTON DETECTOR
(N)	(N)	NOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(G)	(G)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(F)	(F)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
(R)	(R)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
(R)	(R)	RAILROAD CONTROL CABINET
(L)	(L)	ILLUMINATED SIGN "NO LEFT TURN"
(L)	(L)	ILLUMINATED SIGN "NO RIGHT TURN"
(H)	(H)	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
(P)	(P)	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
(S)	(S)	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
(I)	(I)	ILLUMINATED STREET NAME SIGN
(A)	(A)	EMERGENCY VEHICLE SYSTEM ANTENNA
(L)	(L)	LUMINAIRE
(C)	(C)	COAXIAL CABLE
(U)	(U)	UNINTERRUPTIBLE POWER SUPPLY

SCHEDULE OF QUANTITIES			
ITEM	UNIT	TOTAL	
CONTROLLER CABINET TYPE V	EACH	1	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
TRANSCIVER - FIBER OPTIC	EACH	1	
INDUCTIVE LOOP DETECTOR	EACH	10	
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
UNINTERRUPTIBLE POWER SUPPLY STANDARD	EACH	1	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY GPS SYSTEM	EACH	1	

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF THE OF THE VILLAGE OF BOLINGBROOK, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE VILLAGE YARD AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1 EACH CABINET

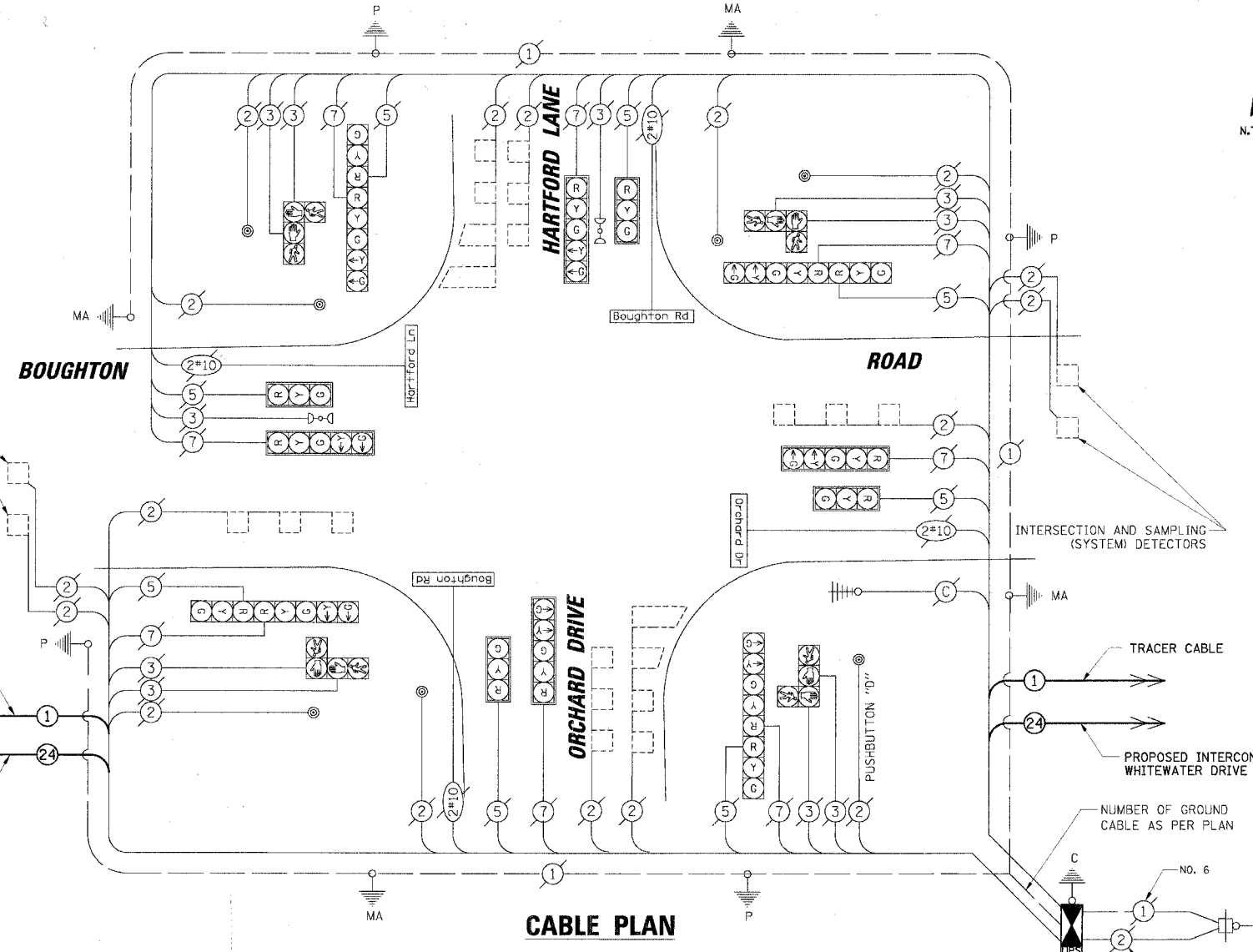


LEGEND
 ⊗ DUAL ENTRY PHASE
 ⊗ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

TRACER CABLE

PROPOSED INTERCONNECT TO LINDSEY LANE



CABLE PLAN

- CONSTRUCTION NOTES:
- REMOVE EXISTING CABINET. INSTALL NEW TYPE V CABINET ON EXISTING FOUNDATION, TECH POWER M-E SERIES UPS, AND FIBER OPTIC TRANSCIVER.
 - RELOCATE EXISTING CONTROLLER AND EVP UNIT.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	
		XINCAND.	LED		
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	16		25	0.25	100.00
(GREEN)	16		15	0.25	60.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
ILLUM. ST. NAME SIGN	4		60	0.50	120.00
FLASHER	-			0.50	-
TOTAL =					735.20

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)=	
		24" (600mm)	10 (3.0)	CONTROLLER CAB.	13 (4.0)
		30" (750mm)	15 (4.6)	FIBER OPTIC	4 (1.2)
		36" (900mm)	15 (4.6)	ELECTRIC SERVICE	13.5 (4.1)
				SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 BOUGHTON ROAD AND HARTFORD LANE/ORCHARD DRIVE
 BOLINGBROOK, ILLINOIS
 SCALE: N.T.S.
 DATE: 4/7/2006
 DRAWN BY: FCP/FPB
 DESIGNED BY: MKW
 CHECKED BY: MJT

DATE: _____ BY: _____
 PROFILE SURVEYED: _____
 NOTE BOOK NO.: _____
 STRUCTURE NO.: _____
 DATE: _____ BY: _____
 PROFILE SURVEYED: _____
 NOTE BOOK NO.: _____
 STRUCTURE NO.: _____

ENERGY COSTS TO:
 VILLAGE OF BOLINGBROOK
 375 BRIARCLIFF ROAD
 BOLINGBROOK, ILLINOIS 60440-0951
 ENERGY SUPPLY: CONTACT: DALE BOLLINGER
 PHONE: (815) 724-5717
 COMPANY: COMED

N:\BOLINGBROOK\05559\Traffic\CAB_Hartford-Orchard.dgn