PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INITIAL MODIFICATION AND INSTALLATION OF TRAFFIC SIGNALS INCLUDING THE INSTALLATION OF VIDEO DETECTION FOR THIS PHASE OF MAINTENANCE OF WORK AT THE INTERSECTION OF MD 450 AT HILLMEADE ROAD IN PRINCE GEORGE'S COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

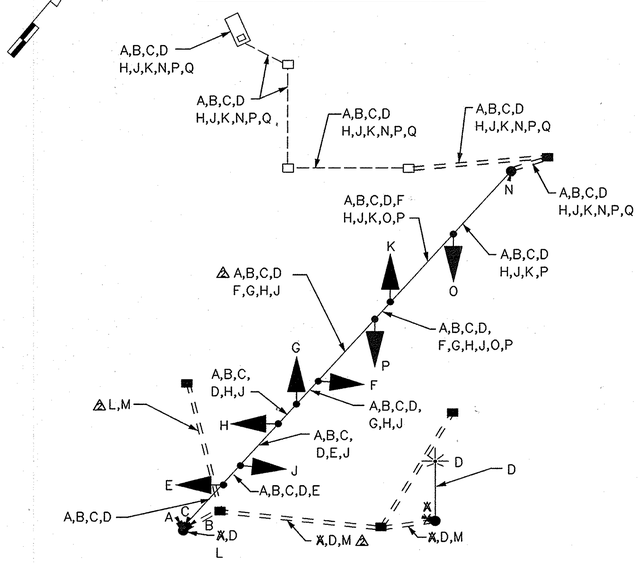
INTERSECTION OPERATION

~~△THE INTERSECTION WILL OPERATE IN A NEMA-TWO-PHASE FULLY ACTUATED MODE.~~
[5] THE INTERSECTION WILL BE MODIFIED TO OPERATE IN A NEMA-SIX-PHASE FULLY ACTUATED MODE.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

WIRING DIAGRAM [5]



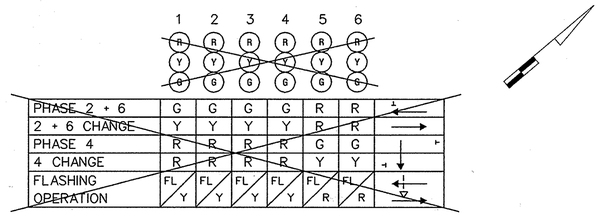
A,B,C,N	VIDEO TRAFFIC DETECTOR CABLE	H,J,K,P	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
D	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)	L,M,Q	NO. 6 AWG BARE STRANDED COPPER GROUND WIRE
E,F,G,O	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)		

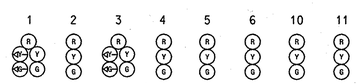
EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
973023	813	△41 S.F.	△ SHEET ALUMINUM SIGN TO CONSIST OF" -2 EA. D3-2 (16 IN. X VAR.)-SPAN MOUNT -1 EA. ASSOCIATED SHIELD ASSEMBLY (48 IN. X 75 IN.)-POLE MOUNT

PHASE CHART [5]





Phase 1 & 5	R G	R	R G	R	R	R	R	R	
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6									
Phase 1 & 6	G G	G	R	R	R	R	R	R	
1 Change	G Y	G	R	R	R	R	R	R	
Phase 2 & 5	R	R	G G	G	R	R	R	R	
5 Change	R	R	G Y	G	R	R	R	R	
Phase 2 & 6	G	G	G	G	R	R	R	R	
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	
Phase 4 & 8	R	R	R	R	G	G	G	G	
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	[5] 2+C.Y.	TEST PIT EXCAVATION
585450	555	42 L.F.	REMOVAL OF PAVEMENT MARKING ANY WIDTH
585624	556	[5] 110 ~~70~~ L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
801004	801	[5] 15 ~~10~~ C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	805	△ 310 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
811001	811	[5] 5 ~~4~~ EA.	ELECTRICAL HANDHOLE
813015	813	△ 41 S.F.	INSTALL OVERHEAD SIGN
818052	818	1 EA.	27 FT. STEEL POLE WITH 70 FT. MAST ARM
831010	806	1 EA.	250 WATT HPS LUMINAIRE WITH PHOTOCELL
833062	805	△ 40 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-RISER
837001	804	[5] 3 ~~△2~~ EA.	GROUND ROD 3/4 IN. X 10 FT. LENGTH
860272	814	[5] 28 ~~18~~ EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	[5] 155 ~~125~~ L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	[5] 1355 ~~1055~~ L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
861116	810	620 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)
866104	818	1 EA.	20 FT. LIGHTING ARM ON SIGNAL STRUCTURE
[5] ~~866204~~	~~814~~	~~1 EA.~~	~~27 FT. STEEL POLE WITH 50 FT. MAST ARM~~
869101	819	175 L.F.	1/4 IN. STEEL TETHER WIRE
869102	819	175 L.F.	3/8 IN. STEEL SPAN WIRE
870163	805	40 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
870166	805	[5] 55 ~~120~~ L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
870167	805	[5] 230 ~~△140~~ L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
800000	805	1 EA.	VIDEO DETECTION SYSTEM
800000	805	[5] 4 ~~3~~ EA.	VIDEO DETECTOR 500 FT. CABLE
[5] ~~800000~~	~~818~~	~~1 EA.~~	~~40 FT. CLASS II WOOD STRAIN POLE WITH 2 BACK GUYS~~
800000	XXX	1 L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL
[5] 818041	818	2 EA.	27 FT. STEEL POLE WITH 60 FT. MAST ARM
[5] 800000	805	1 EA.	VIDEO DETECTION CAMERA
[5] 801000	XXX	1 EA.	REMOVAL OF EXISTING POLE FOUNDATION

EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

Redline Revision

The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

[5] REDLINE REVISION 5 DATE 10/8/03

△ ADDENDUM #2 10/11/2001

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

GENERAL INFORMATION SHEET
MD 450 - MD 193 TO STONYBROOK DRIVE
MD 450 AT HILLMEADE ROAD - PHASE I

DRAWN BY: MB	F.A.P. NO. SEE TITLE SHEET	TS NO. TS-1618B-2PH1A	SHEET NO.
CHECKED BY: STB	S.H.A. NO. PG9005571		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. D 538	404 OF 545
DATE: OCTOBER 2001	LOG MILE: 9.75		

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8/15/2003