PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL DEVICES AT US 1 & CHERRY LANE IN PRINCE GEORGE'S COUNTY. THE MODIFICATIONS CONSIST OF NEAR SIDE SIGNAL HEADS ON ALL APPROACHES AND AN ADDITIONAL LEFT TURN SIGNAL ON SOUTHBOUND US 1. US 1 RUNS IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION OPERATES IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE. EXCLUSIVE LEFT TURN PHASES ARE PROVIDED FOR EACH APPROACH TO THE INTERSECTION. PEDESTRIAN MOVEMENTS ARE PROVIDED ON THE NORTH AND WEST LEGS OF THE INTERSECTION.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE: (301)-513-7300

MR. AUGIE REBISH
UTILITY ENGINEER
PHONE: (301)-513-7350

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301)-513-7358

MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301)-513-7304

EQUIPMENT LIST "B"

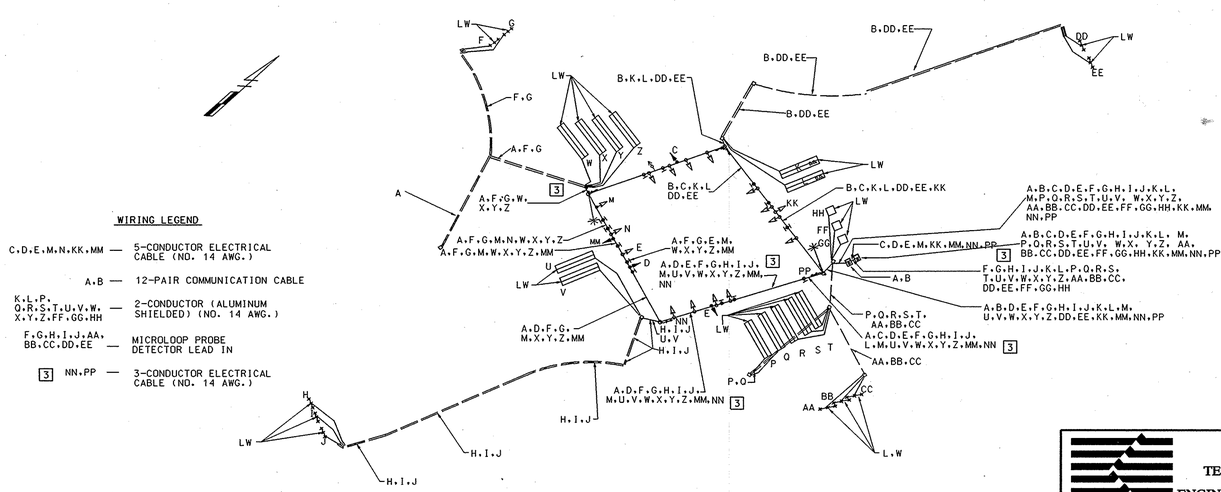
B. EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
[3] 585620	~~300~~ 1000 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585624	250 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
801605	62 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF: - 1 EACH R3-5 (LEFT ONLY) (30"X36") - SPAN MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, US 1, LEFT ARROW" (36"X75") - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, US 1, LEFT ARROW" (36"X75") - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "NORTH, US 1, RIGHT ARROW" (24"X51") - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY "SOUTH, US 1, RIGHT ARROW" (24"X51") - POLE MOUNT
[5] 805150	~~170~~ 205 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - SLOTTED
805160	190 L.F.	FURNISH AND INSTALL 1 INCH LIQUID-TIGHT, FLEXIBLE NON-METALLIC CONDUIT DETECTOR SLEEVE
[5] [3] 811001	~~5~~ 7 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860265	4 EACH	RELOCATE EXISTING SIGNAL HEAD △4
861104	7400 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
861107	1250 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
862101	8000 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING
862102	2350 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL
800000	225 L.F.	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - TRENCH
[5] 800000	~~225~~ 340 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID POLYVINYL CHLORIDE CONDUIT - TRENCH
800000	7 EACH	MICROLOOP PROBE SET 1000' FT. LEAD IN
800000	3 EACH	MICROLOOP PROBE SET 500' LEAD IN
800000	12 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION △4 - 4 EACH 12 INCH, 1 WAY, 3 SECTION (RA,YA,GA) SIGNAL HEAD SPAN MOUNT

[3]

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
800000	4 EA	FURNISH AND INSTALL PEDESTRIAN SIGNAL SECTION
861106	300 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)

WIRING DIAGRAM



NOTE: CONTRACTOR SHALL MAINTAIN EXISTING WIRING TO SIGNAL HEADS

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		[3] 40	[3] 41
PHASE 1 & 5	G	G	G	R	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		DW	DW
1 & 5 CHANGE	TO PHASES 1-6 OR 2-5 OR 2-6																										
PHASE 1 & 6	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		DW	DW
1 CHANGE	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		DW	DW
PHASE 2 & 5	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		DW	DW
5 CHANGE	R	R	R	R	R	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		DW	DW
PHASE 2 & 6	R	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	W	W	DW	DW		W	W
PED CLEAR	R	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW		FL/DW	FL/DW
2 & 6 CHANGE	R	R	R	Y	Y	R	R	R	Y	Y	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW		DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW		DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW		DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW		DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW		DW	DW
ALT. PHASE 3	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	DW	DW	W	W		DW	DW
PED CLEAR	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	DW	DW	FL/DW	FL/DW		DW	DW
ALT. 3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW		DW	DW
PRE EMPTION	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW		DW	DW
PRE EMPTION CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW		DW	DW
FLASHING OPERATION	FL R	FL R	FL R	FL Y	FL Y	FL R	FL R	FL R	FL Y	FL Y	FL R	FL R	FL R	FL R	FL R	FL R	FL R	FL R	FL R	FL R	DARK	DARK	DARK	DARK		DARK	DARK

TSP-2 OF TSP-17

REVISIONS	APPROVALS
[5] REDLINE REVISION NO.5 1/25/2001	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
[3] REDLINE REVISION No. 3 10 / 6 /2000	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
△4 ADDENDUM No. 3 4/06/2000	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
(F) ADDED SB LEFT TURN LANE. SHA NO. PG2745184	DIRECTOR, TRAFFIC & SAFETY
AH	

ORIGINAL ON FILE

KCI TECHNOLOGIES

KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 OAK STREET TO TALBOTT AVENUE (MD 198)
US 1 AT CHERRY LANE
GENERAL INFORMATION SHEET

DRAWN BY: MEL	F.A.P. NO. SEE TITLE SHEET	TS NO. 1263F	SHEET NO.
CHECKED BY:	S.H.A. NO. PG2745184		
SCALE:	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO.	114 OF 162
DATE:	LOG MILE: 16000112.85		