

F H W A REGION NO.	STATE	FED. AID PRG. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF BUSINESS MD 3 AND VETERANS HIGHWAY IN ANNE ARUNDEL COUNTY. BUSINESS MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

THE PROJECT IS NECESSITATED BY THE CONSTRUCTION OF A RIGHT TURN LANE ON VETERANS HIGHWAY. SIGNALIZATION WORK WILL CONSIST OF THE INSTALLATION OF A LANE CONTROL SIGN, CONDUIT, WIRING AND DETECTORS.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH THE BUSINESS MD 3 APPROACHES OPERATING CONCURRENTLY AND THE VETERANS HIGHWAY APPROACH OPERATING ALONE.

EXCLUSIVE LEFT TURN PHASES EXIST FOR NORTHBOUND AND SOUTHBOUND BUSINESS MD 3 AND A RIGHT TURN OVERLAP PHASE EXISTS FOR VETERANS HIGHWAY.

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

INSTALL ONE-FOUR (4) CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER.

SPECIAL NOTES

1) NO EQUIPMENT WILL BE SUPPLIED BY THE SHA ON THIS PROJECT

PHASE CHART

PHASING WILL NOT CHANGE

EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

SIGNALIZATION

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
---	170 L.F.	5 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
---	15 L.F.	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE
8021	500 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	25 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT - DETECTOR SLEEVE
8024	280 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)
8033	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8040	1850 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	1420 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED (NO. 14 A.W.G.)
---	1 EACH	FURNISH AND INSTALL DETECTOR AMPLIFIER, 4-CHANNEL RACK MOUNT
---	13 S.F.	FURNISH AND INSTALL SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING: - 1 EACH R3-5(R) SIGN (30 IN. X 36 IN.) - SPAN WIRE MOUNT - 1 EACH R10-11a SIGN (24 IN. X 30 IN.) - POLE MOUNT

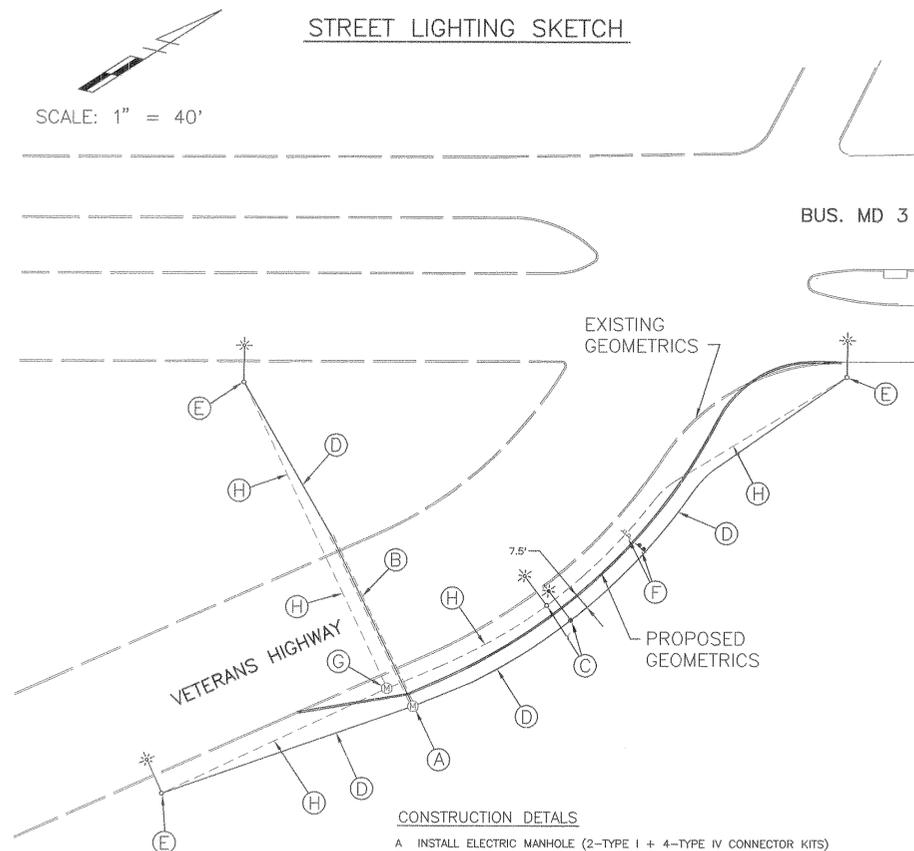
LIGHTING

ITEM NO.	QUANTITY	DESCRIPTION
---	2.5 C.Y.	FURNISH AND INSTALL CONCRETE FOR LIGHTING FOUNDATION
---	620 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 4 A.W.G.)
---	1 EACH	FURNISH AND INSTALL ELECTRIC MANHOLE
---	620 L.F.	FURNISH AND INSTALL 6-CONDUCTOR (NO. 4 A.W.G.) DUCT CABLE
---	1 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FT. LENGTH
---	90 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (BORED)
---	1 EACH	RELOCATE EXISTING STREET LIGHT STRUCTURE
---	1 EACH	REMOVE EXISTING MANHOLE
---	18 EACH	FURNISH AND INSTALL TYPE I CONNECTOR KIT
---	8 EACH	FURNISH AND INSTALL TYPE III CONNECTOR KIT
---	4 EACH	FURNISH AND INSTALL TYPE IV CONNECTOR KIT

NOTE: ITEM NUMBERS CORRESPOND TO MSHA AREAWIDE CONTRACT

STREET LIGHTING SKETCH

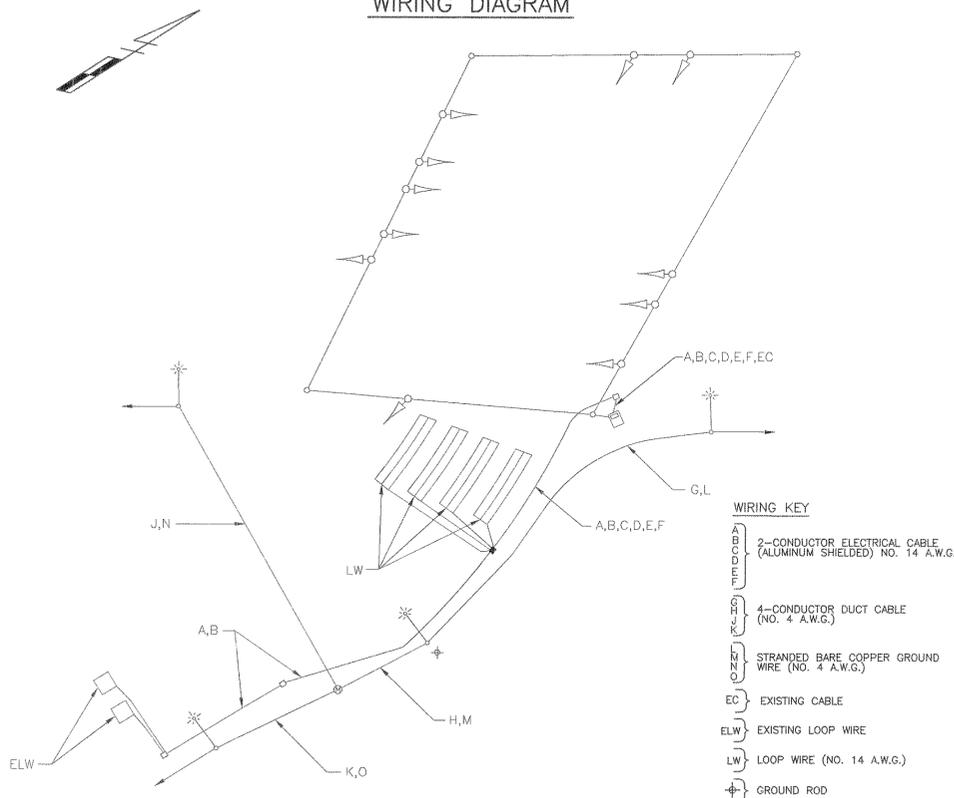
SCALE: 1" = 40'



CONSTRUCTION DETAILS

- A INSTALL ELECTRIC MANHOLE (2-TYPE I + 4-TYPE IV CONNECTOR KITS)
- B INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (BORED)
- C INSTALL CONCRETE FOUNDATION AND RELOCATE EXISTING STREET LIGHTING STRUCTURE (4-TYPE I + 2-TYPE III CONNECTOR KITS)
- D INSTALL 6-CONDUCTOR (NO. 4 A.W.G.) DUCT CABLE - TRENCHED - WITH STRANDED BARE COPPER GROUND WIRE (NO. 4 A.W.G.)
- E EXISTING STREET LIGHTING STRUCTURE (4-TYPE I + 2-TYPE III CONNECTOR KITS)
- F RELOCATE EXISTING GROUND MOUNTED SIGN
- G REMOVE EXISTING ELECTRIC MANHOLE
- H ABANDON EXISTING ELECTRICAL CABLE

WIRING DIAGRAM



TRAFFIC CONCEPTS, INC.

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REVISIONS	APPROVALS
	ASSISTANT DIVISION CHIEF
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENG. DESIGN DIV.
	DIR., OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
BUSINESS MD 3 AND VETERANS HIGHWAY

DATE: 8-7-98	DRAWN BY: T. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
SCALE: NONE	DESIGNED BY: T. ZAYDEL	S.H.A. NO. BW996M82	TS-2194B GI	2 OF 2
APPROVED BY: [Signature]	CHECKED BY: K. SCHMID	COUNTY: ANNE ARUNDEL		