EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8001	2 C.Y.	CONCRETE FOUNDATION
8003	1 EACH	ATR CONTROLLER
8004	4 EACH	ATR LOOP DETECTOR/AMPLIFIER
8005	1 EACH	BASE MOUNTED FIELD EQUIPMENT CABINET
8006	8 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8010	400 L.F.	2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8011	300 L.F.	3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8012	230 L.F.	6 PAIR COMMUNICATION CABLE (NO. 22 A.W.G.)
8013	920 L.F.	SAW CUT
8015	250 L.F.	NO. 4 A.W.G. STRANDED BARE COPPER GROUND WIRE
8016	160 L.F.	4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8017	500 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 A.W.G - THHN/THWN
8018	2 EACH	PIEZO SENSOR WITH 100 FT. LEAD-IN CABLE
8020	1 EACH	GROUND ROD - $^{3}/_{4}$ IN. x 10 FT. LENGTH
8021	2000 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8022	2600 L.F.	LOOP WIRE ENCASED IN $^{1}/_{4}$ INCH FLEXIBLE TUBING (NO. 14 A.W.G)
8023	240 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8024	3 EACH	PIEZO SENSOR WITH 200 FT. LEAD-IN CABLE
8025	3 EACH	PIEZO SENSOR WITH 300 FT. LEAD-IN CABLE
8026	2 EACH	CHEMICALLY TREATED GROUND RODS
8028	1 EACH	REMOVE AND DISPOSE OF FOUNDATION 12 IN. BELOW GRADE
8029	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
NEG.	1 EACH	30 AMP DISCONNECT SWITCH (SINGLE PHASE) FUSED AT 20 AMPS

WIRING DIAGRAM

WIRING KEY

A B C D E F G H — J K L M N O P Q — 2-CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED (NO. 14 A.W.G.)

R S T U — V W X Y — CLASS I PIEZO SENSOR LEAD-IN CABLE

Z AA — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) - THHN/THWN

BB — STRANDED BARE COPPER GROUND WIRE (NO. 4 A.W.G.)

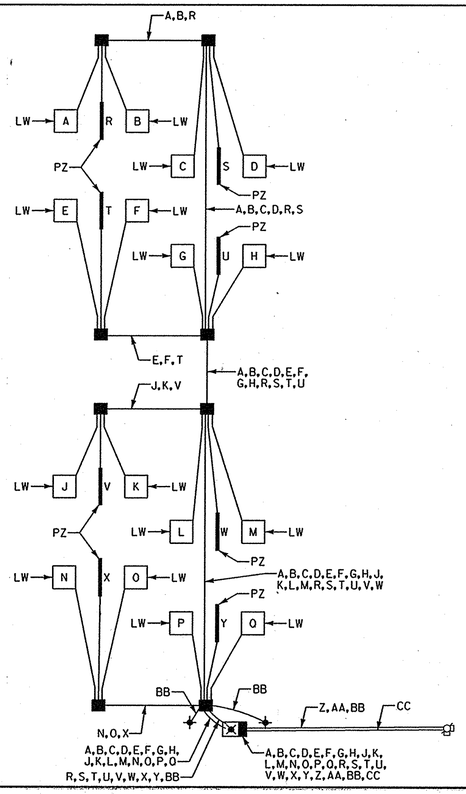
CC — 6 PAIR COMMUNICATION CABLE (NO. 22 A.W.G.)

LW - LOOP WIRE (NO. 14 A.W.G.)

PZ - PIEZO SENSOR

+ - CHEMICALLY TREATED GROUND ROD

× - $^{3}/_{4}$ IN. X 10 FT. GROUND ROD



PROPOSED LOCATION

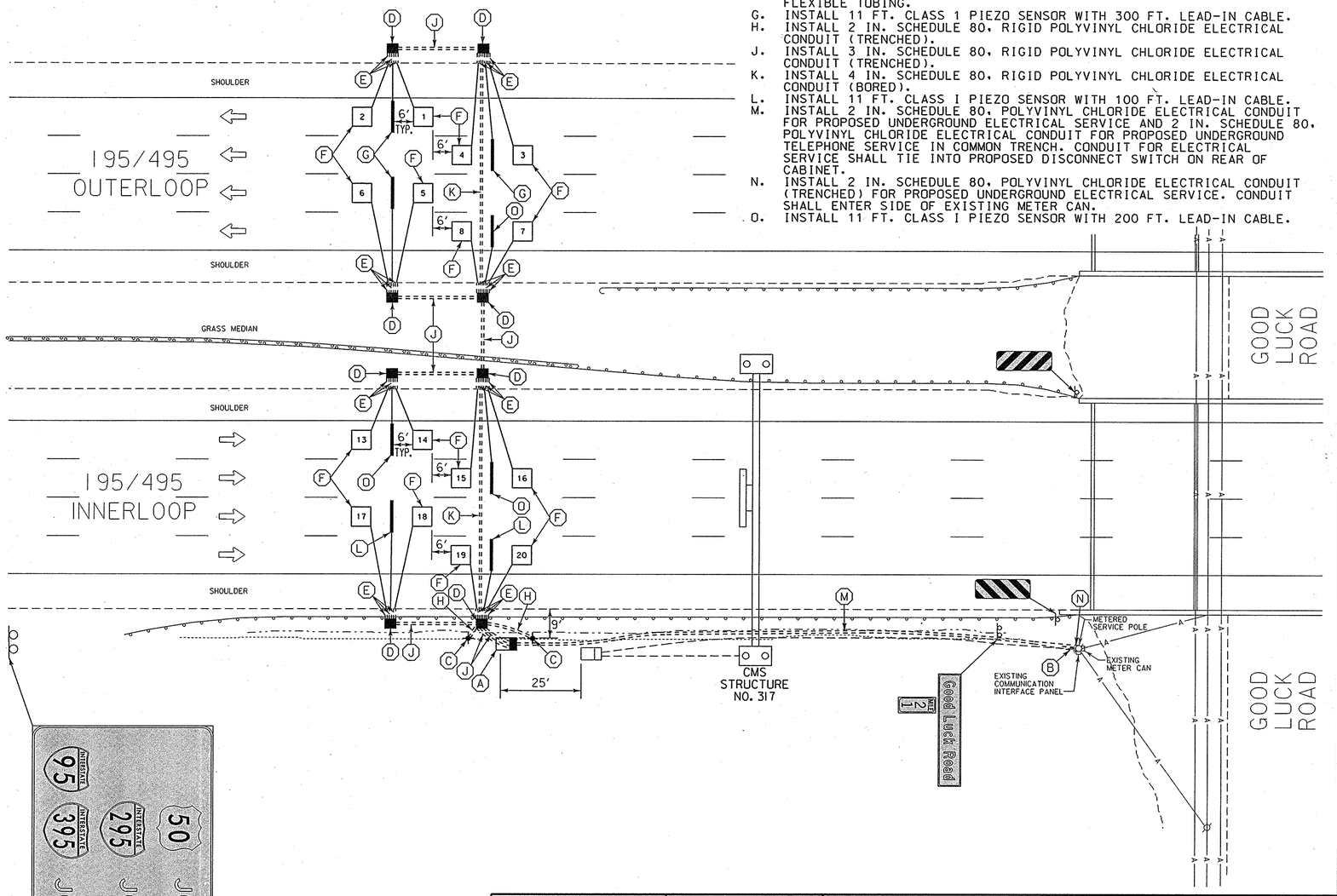
I 95/495 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT MR. BARRY BALZANNA AT (410) 545-5509 48 HOURS PRIOR TO INSTALLATION OF LOOP DETECTORS AND PIEZO SENSORS.
2. THE TRAFFIC OPERATIONS DIVISION SHALL CONTACT PEPCO TO SCHEDULE A WORK WITH FOR THE ELECTRICAL SERVICE CONNECTION. THE STATEWIDE OPERATIONS CENTER (SOC) SHALL ALSO BE CONTACTED REGARDING THE OUTAGE OF THE DMS DURING THE ELECTRICAL SERVICE CONNECTION.

CONSTRUCTION DETAILS

A. INSTALL BASE MOUNTED FIELD EQUIPMENT CABINET WITH ATR CONTROLLER, 4-ATR LOOP DETECTOR AMPLIFIERS, CONCRETE PAD AND 30 AMP DISCONNECT SWITCH (SINGLE PHASE) FUSED AT 20 AMPS. (INSTALL 2-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
B. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CONDUIT SHALL ENTER SIDE OF EXISTING COMMUNICATION INTERFACE PANEL.
C. INSTALL CHEMICALLY TREATED GROUND ROD.
D. INSTALL HANDHOLE.
E. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
F. INSTALL 6 FT. X 6 FT. (4 TURNS) LOOP DETECTOR ENCASED IN $^{1}/_{4}$ IN. FLEXIBLE TUBING.
G. INSTALL 11 FT. CLASS 1 PIEZO SENSOR WITH 300 FT. LEAD-IN CABLE.
H. INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
L. INSTALL 11 FT. CLASS I PIEZO SENSOR WITH 100 FT. LEAD-IN CABLE.
M. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE IN COMMON TRENCH. CONDUIT FOR ELECTRICAL SERVICE SHALL TIE INTO PROPOSED DISCONNECT SWITCH ON REAR OF CABINET.
N. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CONDUIT SHALL ENTER SIDE OF EXISTING METER CAN.
O. INSTALL 11 FT. CLASS I PIEZO SENSOR WITH 200 FT. LEAD-IN CABLE.



REVISIONS

A RELOCATE ATR STATION

APPROVALS

TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

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

AUTOMATIC TRAFFIC RECORDER - SITE NO. 55
I-95/495 AND GOOD LUCK ROAD

DRAWN BY: S. BLOSS	F.A.P. NO.	ATR. NO. 055	SHEET NO.
CHECKED BY: N. LEARY	S.H.A. NO. AT6065185		
SCALE: 1"=20'	COUNTY: PRINCE GEORGES	T.I.M.S. NO. H271	2 OF 2
DATE: 9/8/2005	LOG MILE: 16009520.02		

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