

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES SIGNAL MODIFICATION AT THE INTERSECTION OF MD 214 AT MD 424 IN ANNE ARUNDEL COUNTY. MD 214 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA-FIVE-PHASE FULLY ACTUATED MODE. THE THRU PHASE MOVEMENTS ON MD 214 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON MD 424 AND BIRDSVILLE RD WILL OPERATE CONCURRENTLY.

EQUIPMENT LIST A

A. EQUIPMENT TO BE FURNISHED BY SHA

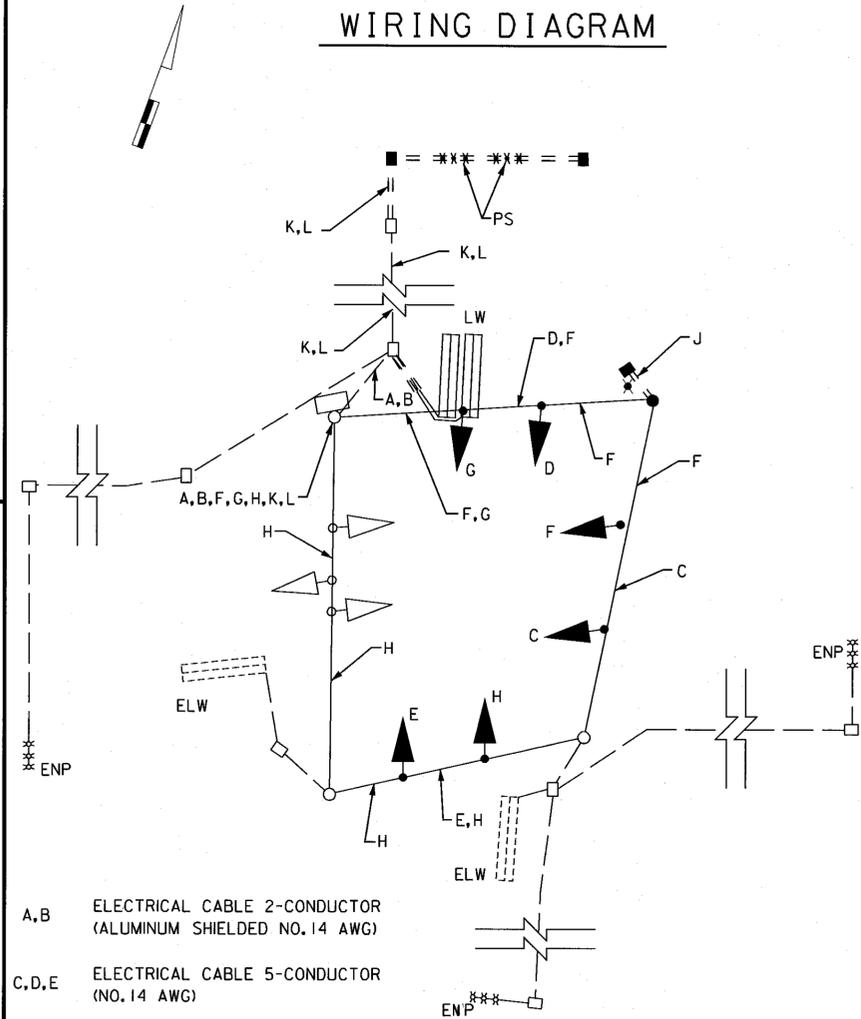
CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
973023	813	29 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -1 EA. D-3(I) (STREET NAME SIGN) DUAL FACED 12 IN. X VAR. - SPAN MOUNT -1 EA. R10-12 (YIELD ON GREEN) 36 IN. X 42 IN. - SPAN MOUNT -1 EA. R3-5L (LEFT TURN ONLY) 30 IN. X 36 IN. - SPAN MOUNT

EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
585462	555	40 L.F.	REMOVE EXISTING PAVEMENT MARKING - ANY WIDTH
585624	556	60 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
802501	805	20 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805011	805	40 L.F.	1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805115	805	70 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-BORED
805135	805	30 L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
810605	810	2 EA.	MICRO-LOOP NON INVASIVE PROBE SET WITH 1000 FT. LEAD IN
811001	811	3 EA.	ELECTRICAL HANDHOLE
813015	813	29 S.F.	INSTALL OVERHEAD SIGN
837001	804	1 EA.	GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
860265	814	1 EA.	RELOCATE EXISTING SIGNAL HEAD
860272	814	19 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861104	810	70 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO. 14 AWG)
861107	810	100 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	500 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
862101	805	1000 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	805	330 L.F.	SAW CUT FOR LOOP DETECTOR
867103	818	1 EA.	12 IN. X 30 FT. STRAIN POLE
869101	819	220 L.F.	STEEL SPAN WIRE - 1/4 IN. DIAMETER
869102	819	220 L.F.	STEEL SPAN WIRE - 3/8 IN. DIAMETER
800000	XXX	1 LS.	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT

WIRING DIAGRAM



A,B ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO. 14 AWG)

C,D,E ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)

F,G,H ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)

J NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

K,L MICRO-LOOP LEAD IN

PS MICRO-LOOP NON INVASIVE PROBE SET

LW LOOP WIRE

ELW EXISTING LOOP WIRE

ENP EXISTING NON INVASIVE PROBE

GROUND ROD

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

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

EDWARD RODENHIZER
CHIEF, SHA TRAFFIC SIGNALS SHOP
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RICHARD DAFF, SR
CHIEF, TRAFFIC OPERATIONS DIVISION
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KIMBERLY TRAN
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MARK COBLENTZ
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
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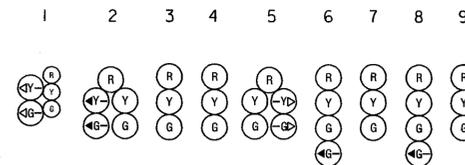
JOHN MAYS
UTILITIES ENGINEER
PHONE: 410-841-1005

EQUIPMENT LIST C

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION 7491 CONNELLEY DR, HANOVER, MD 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

NONE

PHASE CHART



	1	2	3	4	5	6	7	8	9	
PHASE 1	G	G	G	R	R	R	R	R	R	↑
1 CHANGE	G	G	G	R	R	R	R	R	R	→
PHASE 2+6	G	G	G	G	G	G	R	R	R	←
2+6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	↓
PHASE 3	R	R	R	R	R	G	G	R	R	↑
3 CHANGE	R	R	R	R	R	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	R	R	G	G	←
4 CHANGE	R	R	R	R	Y	R	R	Y	Y	↓
FLASHING OPERATION	FL	↕								

EQUIPMENT LIST D

D. ALL EQUIPMENT REMOVED AND NOT RETURNED TO THE SHA WILL BECOME PROPERTY OF THE CONTRACTOR.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 214 (CENTRAL AVE.) AT MD 424

SCALE NONE DATE APRIL 2005 CONTRACT NO. AA7385177

DESIGNED BY MB COUNTY ANNE ARUNDEL
DRAWN BY MB LOGMILE 02021402-68
CHECKED BY PDU T.I.M.S. NO. F468
F.A.P. NO. TOD NO.

DRAWING NO. TS# 1538 - 2 OF 2 SHEET NO. 26 OF 33

BORDER REV: DATE: June 11, 2004
DRILL HOLES
DRILL HOLES
DRILL HOLES
BY: \$USERNAME\$