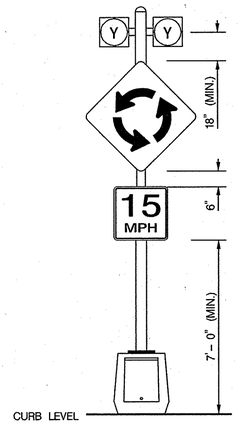
INSTALLATION DETAIL



NOT TO SCALE

MD 175 IS ASSUMED TO RUN IN A EAST/WEST DIRECTION

EXISTING SIGNS TO REMAIN

5,6,7 — ONE WAY R6-1R; OM-3C
9,10,11 — YIELD R1-2
12 — W3-2; 15 MPH W13-1
13 — SPEED LIMIT 40 R2-1
14
15,16 17,18 — W11-2; W16-7
19,20 — W11-2; W16-7
21 — WEST MARYLAND 175; SHIELD ASSEMBLY (48"x75")
22,23 — Odenton Road

EXISTING SIGNS TO BE REMOVED

W2-6

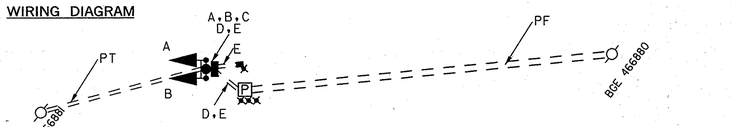
PROPOSED SIGNS

3 — W2-6 48" x 48"
4 — 15 MPH W13-1 30" X 30"

PROPOSED SIGNALS

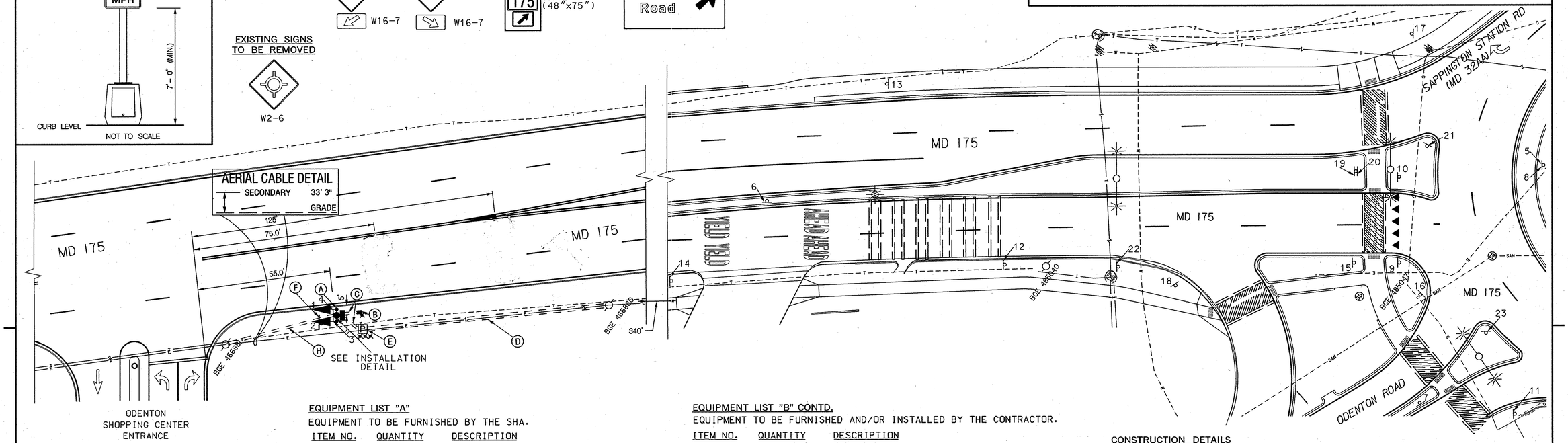
1,2 — Y 12"

WIRING DIAGRAM



WIRING KEY

A,B	– 3 CONDUCTOR CABLE (NO. 14 AWG)	E	– NO. 6 STRANDED BARE COPPER GROUND
C	– 3 CONDUCTOR CABLE (NO. 14 AWG) FOR PHOTOCELL	PF	– PROPOSED UNDERGROUND ELECTRICAL SERVICE FEED
D	– 2 WIRE, 1-CONDUCTOR CABLE (NO. 8 AWG) FOR SERVICE	PT	– PROPOSED PHONE DROP
		+	– GROUND ROD



PROJECT DESCRIPTION

1. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A PEDESTAL POLE HAZARD IDENTIFICATION BEACON (HIB) ON THE EASTBOUND APPROACH OF MD 175 TOWARD THE MD32AA ROUNDABOUT, IN ANNE ARUNDEL COUNTY.

MD 175 RUNS IN AN EAST-WEST DIRECTION.

2. OPERATION

THE HIB WILL OPERATE IN FLASHING ALTERNATE MODE.

PROJECT CONTACTS

MR. GREG WELKER
DISTRICT ENGINEER
PHONE: 410-841-1001

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER – TRAFFIC
PHONE: 410-841-1019

MR. ANDRE FUTREL
ASSISTANT DISTRICT ENGINEER – MAINTENANCE
PHONE: 410-841-1031

MR. JOHN MAYS
DISTRICT UTILITY ENGINEER
PHONE: 410-841-1039

MR. EDWARD RODENHIZER
CHIEF,
SIGNAL OPERATIONS SECTION
PHONE: 410-787-7652

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
PHONE: 410-787-7631

GEOMETRIC LEGEND
— — — EXISTING
——— PROPOSED

UTILITY LEGEND
—SD—SD— STORM DRAIN
—G—G— GAS MAIN
—W—W— WATER MAIN
—S—S— SEWER MAIN
—E—E— ELECTRIC CABLES
—A—A— AERIAL CABLES
—T—T— TELEPHONE CABLES
—F—F— FIBER-OPTIC

EQUIPMENT LIST "A"

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9041	1 EA	CONTROLLER ASCII, MODEM AND UPS SYSTEM AND PHONE DROP HOUSED IN A "G" SIZED POLE MOUNTED CABINET
9571	23 SF	SHEET ALUMINUM POLE MOUNTED SIGNS 1 EA. – W2-6 (48" X 48") CIRCULAR INTERSECTION 1 EA. – W13-1 (30" X 30") "15 MPH"

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	0.5 CY	TEST PIT EXCAVATION
~~5006~~	~~18 EA~~	~~HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS~~
8001	2 EA	12 IN. SIGNAL HEAD SECTION (Y) YELLOW
8009	1 EA	FURNISH AND INSTALL 20' BREAKAWAY PEDESTAL POLE
8035	220 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" – TRENCHED 60 LF 2" SCHEDULE 80 RIGID PVC CONDUIT – TRENCHED 160 LF 3" SCHEDULE 80 RIGID PVC CONDUIT – TRENCHED

EQUIPMENT LIST "B" CONTD.

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

ITEM NO.	QUANTITY	DESCRIPTION
8039	23 SF	INSTALL GROUND MOUNTED SIGN 1 EA. – W2-6 (48" X 48") CIRCULAR INTERSECTION 1 EA. – W13-1 (30" X 30") "15 MPH"
8041	60 LF	NO. 6 STRANDED BARE COPPER GROUND WIRE
8043	1 EA	METERED SERVICE PEDESTAL
8046	60 LF	1 CONDUCTOR (NO. 8 AWG TYPE THWN/THHN, 60V)
8047	1 EA	ELECTRICAL HANDHOLE
8055	75 LF	3 CONDUCTOR (NO. 14 AWG)
8064	1 EA	INSTALL CONTROLLER AND CABINET – POLE MOUNTED
~~NEG.~~	~~1 EA~~	~~PHOTOCELL~~

CONSTRUCTION DETAILS

A. INSTALL 20' BREAKAWAY PEDESTAL POLE, "G" POLE MOUNTED CABINET WITH CONTROLLER, SIGNAL HEADS (2), SIGNS, 2 – 3" PVC SCHEDULE 80 90 DEGREE BENDS IN PEDESTAL BASE, PHOTOCELL, CONCRETE PAD (4'X4'), AND CONCRETE FOUNDATION.

B. INSTALL HANDHOLE AND GROUND ROD.

C. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

D. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT FOR SERVICE, STUB UP AT BASE OF UTILITY POLE (BGE #466880).

E. INSTALL METERED SERVICE PEDESTAL (2–3" SCHEDULE 80, 90 DEGREE BENDS).

F. REMOVE EXISTING W2-6 SIGN AND SUPPORTS.

~~G. INSTALL WHITE HEAT APPLIED PREFORMED MARKING LETTERS AS SHOWN.~~

H. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT TRENCHED FOR UNDERGROUND TELEPHONE SERVICE, STUB UP AT BASE OF UTILITY POLE (BGE #466881).

TOD NO: AT915-25
SHA No: AA487A57/C57
MD 175; MD 322AA @ Odenton Rd/Higgins Drive

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

MD 175, MD 32AA, HIGGINS DRIVE, AND ODENTON ROAD
INSTALLATION OF HAZARD IDENTIFICATION BEACON

Edwards AND Kelcey
5523 Research Park Drive
Suite 110
Baltimore, Maryland 21228
410-747-3420

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF 4-18-07
DIVISION CHIEF 4-18-07
OFFICE DIRECTOR 4/24 w/changes

REVISIONS

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE APRIL 2007 CONTRACT NO. AT9155185

DESIGNED BY H. DONG
DRAWN BY A. POWELL
CHECKED BY 4/17/07
FAP NO.
COUNTY ANNE ARUNDEL
LOGMILE 02017502.30
TIMS NO. 10207
TOD NO.

TS NO. 4576 | DRAWING TS-1 OF 1 | SHEET NO. 1 OF 1

PLOTTED: Thursday, April 12, 2007 AT 03:30 PM
FILE: J:\2005 Projects\(050020.018)\Cad\Task #58 – MD175 at Sappington Station Road (MD32AA)\Working Files\pSG-P000_MD175atSappingtonDriveRoad.dgn

BY: apowell