

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of Accessible Pedestrian Signals for the North leg of the intersection. Crosswalks will be installed on the East and West legs.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA 6-phase, semi-actuated mode with the North leg pedestrian crossing being pushbutton activated.
- The pushbutton messages shall be as follows:

North Leg

WAIT MESSAGE—"Wait to cross Belair at Shopping Center. Wait."
WALK MESSAGE shall be a rapid tick

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS. OTHER THAN THOSE DETAILED ON THE PLAN, ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- LOCATIONS OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF THESE LOCATIONS CANNOT BE MET THE CONTRACTOR IS TO STOP WORK UNTIL THE CONFLICT IS RESOLVED OR A DESIGN WAIVER, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY, HAS BEEN OBTAINED.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT A PERSON IN A WHEELCHAIR LOCATED ON THE 60"x60" LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18". A LEVEL LANDING AREA IS DEFINED AS AN AREA WITH A CROSS SLOPE OF LESS THAN 2%.
- THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACES OF THE PUSHBUTTON, NOT THE CENTERS OF THE POLES.

CONTACTS

DISTRICT

MS. ERIN KUHN
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MR. MIKE PASOUIARELLO
DISTRICT UTILITY ENGINEER
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OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
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MR. EUGENE BAILEY
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MR. MIKE STOCKER
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2 REDLINE 2 APPROVED 7/23/2012:

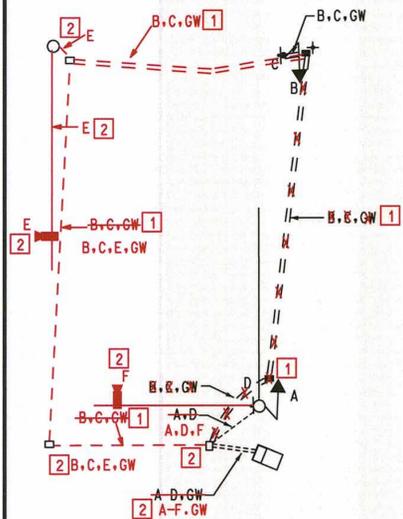
DENNIS DODA, TEAM LEADER, TEDD

1 REDLINE 1 APPROVED 5/17/2012:

ON FILE

DENNIS DODA, TEAM LEADER, TEDD

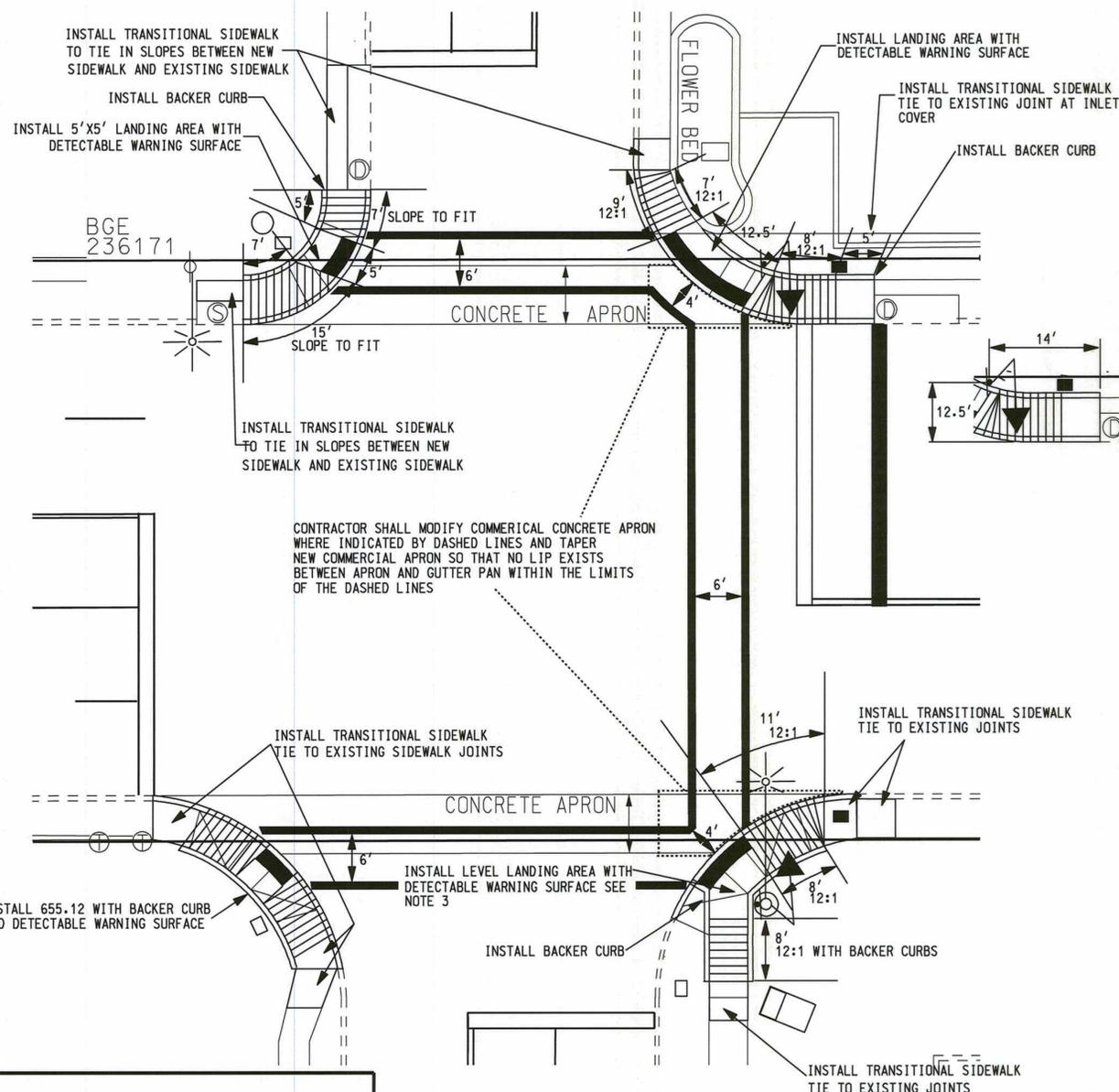
WIRING DIAGRAM



- A, B 5-CONDUCTOR #14AWG
- C, D 2-CONDUCTOR #14AWG
- GW #6 AWG STRANDED BARE COPPER GROUND WIRE
- E, F VIDEO DETECTION CABLE
- 3/4" DIAMETER X 10' LENGTH GROUND ROD

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION		
NONE		
2 9124 1 EA VIDEO DETECTION INTERFACE EQUIPMENT 1-8		
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR		
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5001	-50 LF 0 1	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	225 LF	F&I 12" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING
5005	-35 LF 0 1	F&I 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6001	225 LF	F&I STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH
6002	725 SF	F&I 5" CONCRETE SIDEWALK
6003	60 SF	F&I DETECTABLE WARNING SURFACES FOR CURB RAMPS (TYPE 3 BRICK PAVERS)
8002	1 EA	F&I 2 WIRE CENTRAL CONTROL UNIT
8008	2 EA	F&I AUDIBLE/TACTILE PUSHBUTTON STATION AND SIGNS
8009	1 EA	F&I BREAKAWAY PEDESTAL POLE ANY SIZE
8015	2 EA	F&I 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
8023	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8036	-70 LF 0 1	F&I UP TO 4" SCH 80 RIGID PVC CONDUIT-BORED
8038	35 LF	F&I UP TO 4" SCH 80 RIGID PVC CONDUIT-TRENCHED
8042	150 LF	F&I #6 STRANDED BARE COPPER GROUND WIRE
8053	-175 LF 315 LF 1	F&I ELECTRICAL CABLE-2 CONDUCTOR #14AWG
8055	-175 LF 315 LF 1	F&I ELECTRICAL CABLE-5 CONDUCTOR #14AWG
8000-NEG	2 EA	F&I CONCRETE COMMERCIAL ENTRANCE
8038	70 LF	F&I UP TO 4" SCH 80 RIGID PVC CONDUIT-TRENCHED
8046	1 EA	F&I ELECTRICAL HANDHOLE
2 8028	2 EA	VIDEO DETECTION CAMERA AND CABLE-ANY LENGTH
C. EQUIPMENT TO BE RETURNED TO SHA		
NONE. ALL EQUIPMENT THAT IS REMOVED IN ACCORDANCE WITH THESE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR		



RAMP DETAIL NOTES

- ALL SIDEWALK AND RAMP WIDTHS SHALL BE CONSTRUCTED WITH A 5' WIDTH UNLESS OTHERWISE NOTED.
- CLAY BRICK PAVERS SHALL BE INSTALLED FOR DETECTABLE WARNING SURFACES ON ALL PROPOSED ADA RAMPS AS REQUIRED BY BALTIMORE COUNTY
- ACTUAL DIMENSIONS FOR THIS SECTION WILL VARY. CONTRACTOR SHALL PROVIDE A FLAT, LEVEL LANDING AREA THAT DOES NOT EXTEND BEYOND THE BACK OF THE EXISTING SIDEWALK

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 (BELAIR RD) @ PERRY HALL MARKETPLACE/
NORTHVIEW SHOPPING CENTER ENTRANCE

RAMP DETAIL SHEET

SCALE AS SHOWN. ADVERTISED DATE MARCH 2012. CONTRACT NO. XX6455185

DESIGNED BY C. STRAIN COUNTY BALTIMORE
DRAWN BY C. STRAIN LOGMILE 030001021.12
CHECKED BY D. DODA TMS NO. L300
F.A.P. NO. NA TOD NO.

TS NO. 3986 A DRAWING SG-2 OF 2 SHEET NO. 2 OF 2

BY: \$USERNAMES\$

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