

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF VIDEO DETECTION, ACCESSIBLE PEDESTRIAN PUSHBUTTON STATIONS, AND LED COUNTDOWN PEDESTRIAN HEADS TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 213 (WASHINGTON AVE) AND MD 289 (CROSS STREET/PHILOSOPHERS TERRACE) IN KENT COUNTY.

II. INTERSECTION OPERATION

AN EXISTING CONTROLLER HOUSED IN A POLE MOUNTED CABINET SHALL REMAIN IN USE AT THIS LOCATION. THE INTERSECTION OPERATES IN A NEMA FIVE PHASE, FULL ACTUATED MODE. THE LEFT TURN PHASING ALONG NORTHBOUND MD 213 OPERATES AS EXCLUSIVE/PERMISSIVE PHASING. THE EASTBOUND AND WESTBOUND MD 289 (CROSS STREET)/PHILOSOPHERS TERR. MOVEMENTS OPERATE AS CONCURRENT PHASING. THE SIGNAL OPERATES WITH VIDEO DETECTION ON THE SIDE STREETS AND PEDESTRIAN MOVEMENTS ACROSS ALL FOUR LEGS OF THE INTERSECTION. EXISTING FIRE PRE-EMPTION PHASING SHALL REMAIN FOR BOTH OF THE SOUTHBOUND AND NORTHBOUND MD 213 APPROACHES.

III. ACCESSIBLE PEDESTRIAN PUSHBUTTON STATION OPERATION:

WHEN THE PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME; THE STATION UNIT WILL ANNOUNCE THE FOLLOWING MESSAGES FOR EACH LEG OF THE INTERSECTION:

- NORTH AND SOUTH LEGS OF MD 213
WAIT: "WAIT TO CROSS WASHINGTON AT CROSS"
WALK: "WALK SIGN IS ON FOR WASHINGTON"
- EAST LEG
WAIT: "WAIT TO CROSS PHILOSOPHERS AT WASHINGTON"
WALK: "WALK SIGN IS ON FOR PHILOSOPHERS"
- WEST LEG
WAIT: "WAIT TO CROSS CROSS AT WASHINGTON"
WALK: "WALK SIGN IS ON FOR CROSS"

C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

SPECIAL NOTES

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

- MR. FRANK ANUSZEWSKI
PROJECT MANAGER
PHONE: (410) 787-4047
- MR. BARRIER CLOTHIER
DISTRICT UTILITY ENGINEER
PHONE: (410) 810-3275
- MR. ROBERT L. KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240
- MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
- MR. TERRY O. WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250
- MR. ED RODENHIZER
SIGNAL SHOP (410) 787-7652
- MR. WM NORRIS EMBERT
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 810-3270

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR.

ITEM CODE#	QTY	UNITS	DESCRIPTION
9001	1	EA	VIDEO INTERFACE UNIT
9038	1	EA	CABINET BOTTOM PLATE, SIZE 5
9571	8	SF	SHEET ALUMINIUM MAST ARM/POLE MOUNTED SIGNS
	4 EA	R10-3	COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS WASHINGTON AVE" (9"x 15")
	2 EA	R10-3	COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS CROSS ST" (9"x 15")
	2 EA	R10-3	COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN "TO CROSS PHILOSOPHERS TERR" (9"x 15")

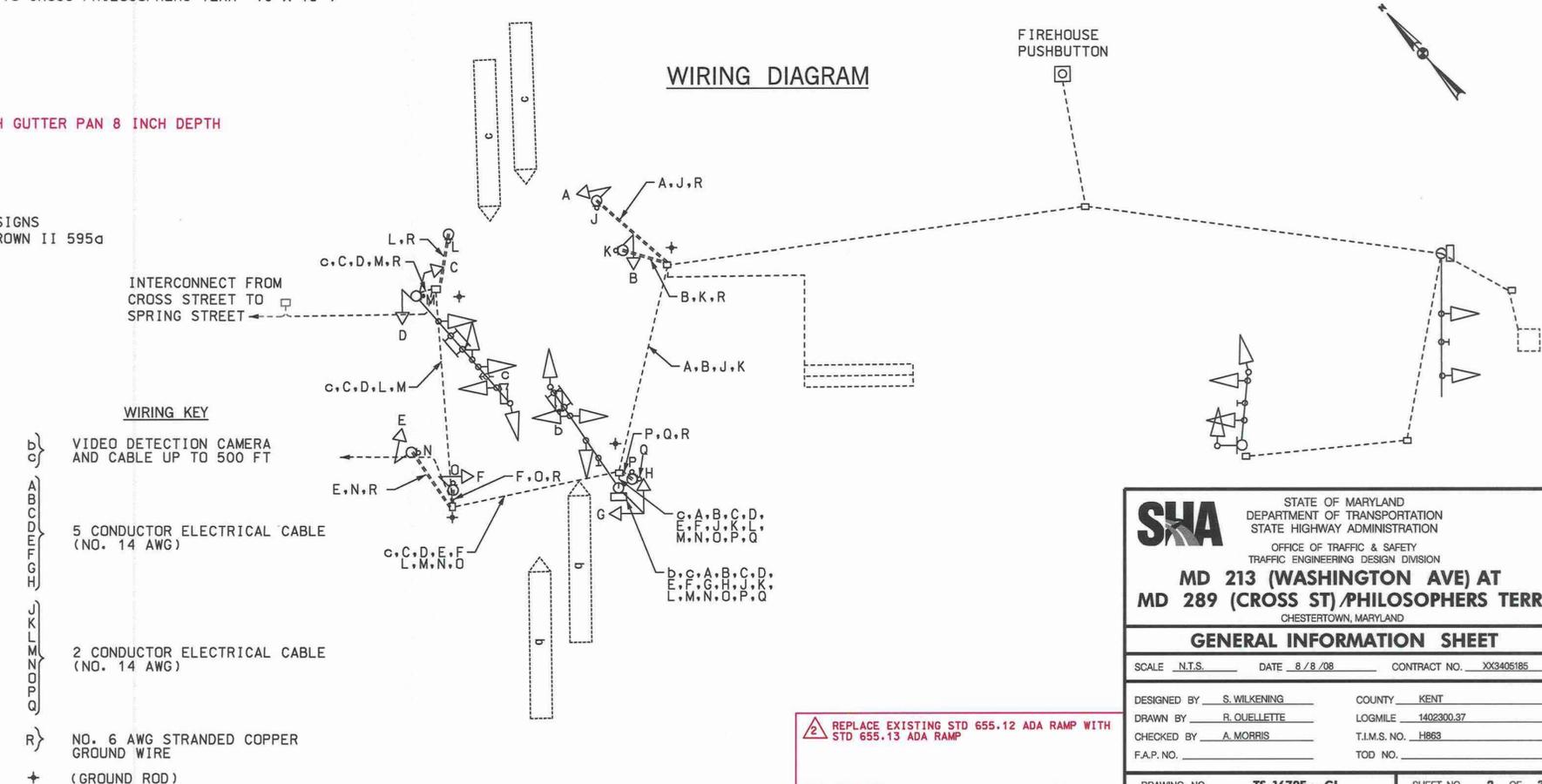
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM CODE#	QTY	UNITS	DESCRIPTION
1001	1	LS	MAINTENANCE OF TRAFFIC
2002	4	CY	TEST PIT EXCAVATION
6001	76	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1140	SF	5 INCH CONCRETE SIDEWALK
8001	16	EA	12" LED SIGNAL HEAD SECTIONS
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8004	33	EA	8" LED SIGNAL HEAD SECTIONS
8006	2	EA	ADJUST HANDHOLE TO GRADE
8007	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8008	6	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE), POWER COATED BROWN II 595c
8011	8	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL
8014	1	EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT
8016	20	LF	3 INCH ELECTRICAL CONDUIT SCHEDULE 80
8017	80	LF	PULL BACK AND REROUTE CABLES
8019	70	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC - TRENCHED
8021	60	SF	DETECTABLE WARNING SURFACES
8022	12	SF	RELOCATE EXISTING SIGN
8027	156	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8028	1	EA	WEATHERHEAD, 3 INCH
8032	8	SF	INSTALL OVERHEAD SIGN
8033	2	EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT
8037	725	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8039	770	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
NEG	6	EA	F&I PED POLE ANY SIZE - POWDER COATED BROWN

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	2627	2829	3031	3233
PHASE 1 AND 6	FL/8"Y	FL/8"Y	4+GG	4+GG	G	R	R	FL/8"Y	FL/8"Y	R	R	R	R	R	R	DW	WK	DW	DW
1 AND 6 CHANGE	FL/8"Y	FL/8"Y	4+YG	4+YG	G	R	R	FL/8"Y	FL/8"Y	R	R	R	R	R	R	DW	WK	DW	DW
PHASE 2 AND 6	FL/8"Y	FL/8"Y	G	G	G	G	G	FL/8"Y	FL/8"Y	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	FL/8"Y	FL/8"Y	G	G	G	G	G	FL/8"Y	FL/8"Y	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	FL/8"Y	FL/8"Y	Y	Y	Y	Y	Y	FL/8"Y	FL/8"Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	FL/8"Y	FL/8"Y	R	R	R	R	R	FL/8"Y	FL/8"Y	G	G	G	G	R	R	DW	DW	DW	DW
4 AND 8 CHANGE	FL/8"Y	FL/8"Y	R	R	R	R	R	FL/8"Y	FL/8"Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW
PHASE 4 AND 8 ALT	FL/8"Y	FL/8"Y	R	R	R	R	R	FL/8"Y	FL/8"Y	G	G	G	G	R	R	DW	DW	WK	WK
PED CLEARANCE	FL/8"Y	FL/8"Y	R	R	R	R	R	FL/8"Y	FL/8"Y	G	G	G	G	R	R	DW	DW	FL/DW	FL/DW
4 AND 8 ALT CHANGE	FL/8"Y	FL/8"Y	R	R	R	R	R	FL/8"Y	FL/8"Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/8"Y	FL/8"Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/8"Y	FL/8"Y	FL/R	FL/R	FL/R	FL/R	R	R	DARK	DARK	DARK	DARK
FIRE PRE-EMPTION																			
PRE-EMPTION PHASE 2 AND 6	R	R	G	G	G	G	G	R	R	R	R	R	R	R	R	8" FL/Y	8" FL/Y	DW	DW
PRE-EMPTION CLEARANCE PHASE 2 AND 6	8" Quick Flash	8" Quick Flash	G	G	G	G	G	8" Quick Flash	8" Quick Flash	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	8" FL/Y	8" FL/Y	G	G	G	G	G	8" FL/Y	8" FL/Y	R	R	R	R	R	R	FL/R	FL/R	DW	DW

WIRING DIAGRAM



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

**MD 213 (WASHINGTON AVE) AT
MD 289 (CROSS ST)/PHILOSOPHERS TERR**
CHESTERTOWN, MARYLAND

GENERAL INFORMATION SHEET

SCALE	N.T.S.	DATE	8/8/08	CONTRACT NO.	XX3405185
DESIGNED BY	S. WILKENING	COUNTY	KENT		
DRAWN BY	R. QUELLETTE	LOGMILE	1402300.37		
CHECKED BY	A. MORRIS	T.I.M.S. NO.	H863		
F.A.P. NO.		TOD NO.			
DRAWING NO.	TS 1679F - GI	SHEET NO.	2	OF	3

REPLACE EXISTING STD 655.12 ADA RAMP WITH STD 655.13 ADA RAMP

TEDD APPROVAL _____ DATE: _____

PLOTTED: #DATE# TIME#
FILE: #FILE#

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

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3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-0861
www.t3design.com

DRILL HOLES

BORER REV: DATE: June 11, 2004