PROJECT DESCRIPTION

I. GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF APS/CPS PEDESTRIAN EQUIPMENT AT THE INTERSECTION OF MD 210 (INDIAN HEAD HIGHWAY) AT MD 373/LIVINGSTON ROAD IN PRINCE GEORGE'S COUNTY. MD 214 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION
THIS INTERSECTION OPERATES IN A NEMA SIX-PHASE FULLY-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT-TURN PHASE FOR THE NORTHBOUND AND SOUTHBOUND MOVEMENTS OF MD 210. THE EASTBOUND AND WESTBOUND APPROACHES OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE ACROSS THE NORTH LEG OF THE INTERSECTION IS PROVIDED.

III. PEDESTRIAN OPERATION
NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE NORTH LEG OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

NORTH: "WAIT TO CROSS INDIAN HEAD AT LIVINGSTON, WAIT."

WHEN THE WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT 3

MR. VENU NEMANI
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7404

MR. VICTOR GRAFTON
DISTRICT ENGINEER - UTILITIES
301-513-7350

MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7385

MR. THOMAS FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHEIF SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.03-11, MD 104.04-13 THROUGH MD 104.04-16.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
900000	27	SF	SHEET ALUMINUM GROUND MOUNTED SIGN W11-2 (36"x36"), 2 EA. 18 SF W16-7p(L) (24"x12"), 1 EA. 2 SF W16-7p(R) (24"x12"), 1 EA. 2 SF R4-7 (24"x30"), 1 EA. 5 SF
900000	2	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN R10-3(1) (9"X15"), 2 EA. 2 SF

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC (PER INTERSECTION)
201032	10	CY	CLASS 2 EXCAVATION
203030	1	CY	TEST PIT EXCAVATION
504150	5	TON	HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG76-22, LEVEL-3
520109	12	SY	3 INCH GRADED AGGREGATE BASE COURSE
585621	260	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	270	LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
600000	70	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	103	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	259	SF	5 INCH CONCRETE SIDEWALK
655120	40	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	4	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
705500	4	SY	TURFGRASS ESTABLISHMENT
800000	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
800000	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	2	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	2	EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
800000	110	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
800000	47	LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
800000	29	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	THIRD PARTY CONCRETE TESTING (PER INTERSECTION)
802501	180	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
811001	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813023	9	SF	RELOCATE EXISTING GROUND MOUNTED SIGNS
861105	670	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	690	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
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936 RIDGEBROOK ROAD
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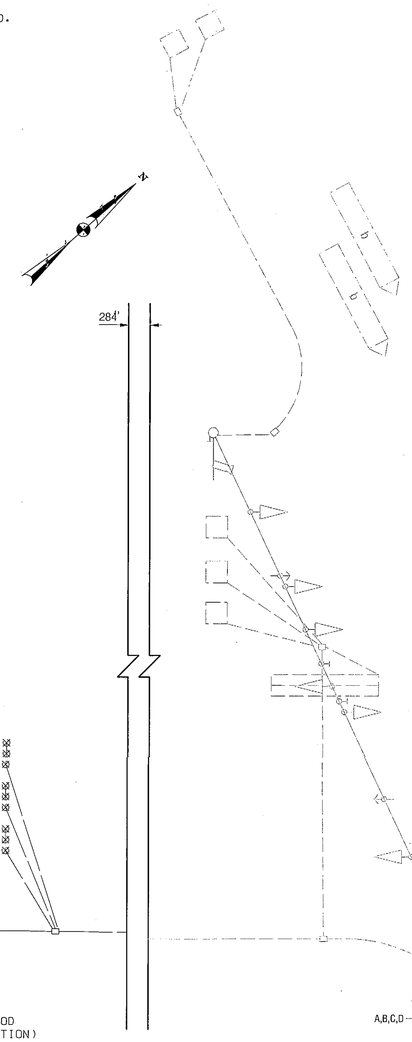
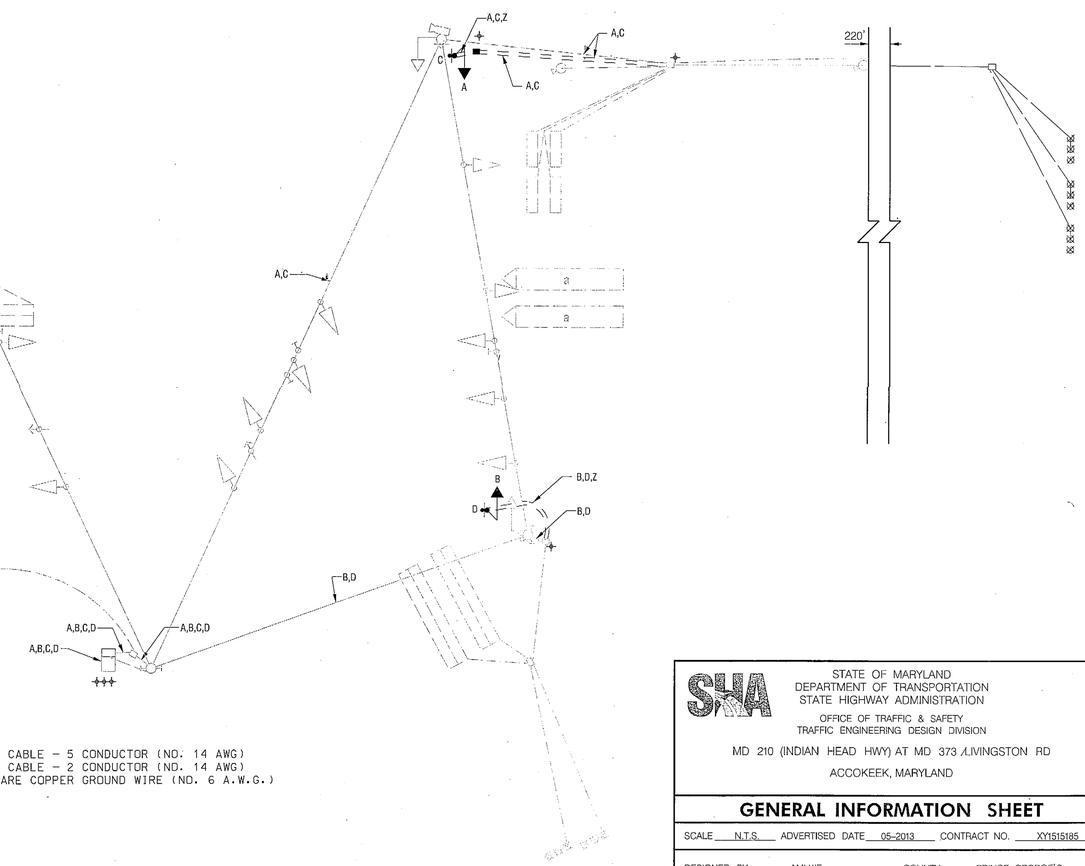


PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 AND 5	G	R	G	R	R	G	R	G	G	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																	
PHASE 1 AND 6	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
1 AND 6 CHANGE	Y	G	Y	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	DW	DW
2 AND 5 CHANGE	R	R	R	R	R	Y	G	Y	Y	G	G	R	R	R	R	DW	DW
PHASE 2 AND 6	R	G	R	G	G	R	G	R	R	G	G	R	R	R	R	DW	DW
2 AND 6 CHANGE	R	Y	R	Y	Y	R	Y	R	R	Y	Y	R	R	R	R	DW	DW
PHASE 3 AND 4	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	DW	DW
3 AND 4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 3 AND 4 ALT	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
3 AND 4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/R	FL/Y	FL/R	FL/Y	FL/Y	FL/R	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK
PRE-EMPTION A	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	DW	DW
PRE-EMPTION A CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PRE-EMPTION B	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PRE-EMPTION B CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	DW	DW
PRE-EMPTION C	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	DW	DW
PRE-EMPTION C CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	DW	DW

WIRING DIAGRAM



WIRING KEY

A,B - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
C,D - ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
Z - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
⏚ - GROUND ROD

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

MD 210 (INDIAN HEAD HWY) AT MD 373 /LIVINGSTON RD

ACCOKEEK, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. ADVERTISED DATE 05-2013 CONTRACT NO. XY1515185

DESIGNED BY AMH/JE
DRAWN BY JE
CHECKED BY JFL
F.A.P. NO.
COUNTY PRINCE GEORGE'S
LOGMILE 16021003.42
TIMS NO. L803
TOD NO.

TS NO. 556H-GI | DRAWING SG-3 OF 3 | SHEET NO. 3 OF 12

PLOTTED: 01:40 PM on Friday, May 10, 2013
FILE: M:\2008\01090819.92\drawings\zSG-N001_MD210.dgn

BY: Ardalan Faghri Division: P068 Highway Traff GMA Emp
BORDER REV: DATE: Monch12720b07