PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT MD 210 (INDIAN HEAD HIGHWAY) AND DETOURED MD 414 (OXON HILL ROAD). INTERSECTION LIGHTING WILL ALSO BE PROVIED AT THIS LOCATION. IT IS ASSUMED THAT MD 210 (INDIAN HEAD HIGHWAY) RUNS IN A NORTH-SOUTH DIRECTION. THE POSTED SPEED LIMIT IS 45 MPH.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE OPERATION, FULLY-ACTUATED MODE. MD 414 (OXON HILL ROAD) WILL OPERATE IN SEPARATE PHASES. A LEADING NORTHBOUND LEFT-TURN AND LAGGING SOUTHBOUND LEFT-TURN WILL BE PROVIDED ON MD 210 (INDIAN HEAD HIGHWAY).

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, SOLID STATE EIGHT-PHASE CONTROLLER WITH TELEMETRY MODULE AND VIDEO TRAFFIC DETECTION SYSTEM HOUSED IN A POLE MOUNTED CABINET.

SPECIAL NOTE

NORTHBOUND AND SOUTHBOUND MD 210 VIDEO TRAFFIC DETECTION CAMERA ZONES SHALL BE FIELD LOCATED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 3 ARE:
MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7358

MR. AUGUSTINE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
301-513-7350

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

THE POWER COMPANY REPRESENTATIVES ARE:
MR. RICHARD CHILCOAT
POTOMAC ELECTRIC POWER COMPANY
- ELECTRIC SERVICE
301-967-5805

MR. JOE NICE
POTOMAC ELECTRIC POWER COMPANY
- RELOCATIONS
202-388-2581

THE CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE:
MR. RICHARD DAFF
DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SYNDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7652

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

MD 210 INDIAN HEAD HIGHWAY IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	MR MY MG	MR MY MG	MR MY MG	MR MY MG	R Y G	R Y G	MR MY MG	MR MY MG	MR MY MG	MR MY MG	R Y G	R Y G	R Y G MG	R Y G MG	R Y G	R Y G MG	R Y G MG	R Y G
PHASE 1 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	R	R	R	R	G	G	R	R	R	R	G	G	R	R	R	R	R	R
6 CHANGE	R	R	R	R	Y	Y	R	R	R	R	G	G	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	R	R
2 & 5 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	G / G	G / G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G / G	G / G	G
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y
FLASHING	FL / R	FL / R	FL / R	FL / R	FL / Y	FL / Y	FL / R	FL / R	FL / R	FL / R	FL / Y	FL / Y	FL / R	FL / R	FL / R	FL / R	FL / R	FL / R

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE MDSHA.

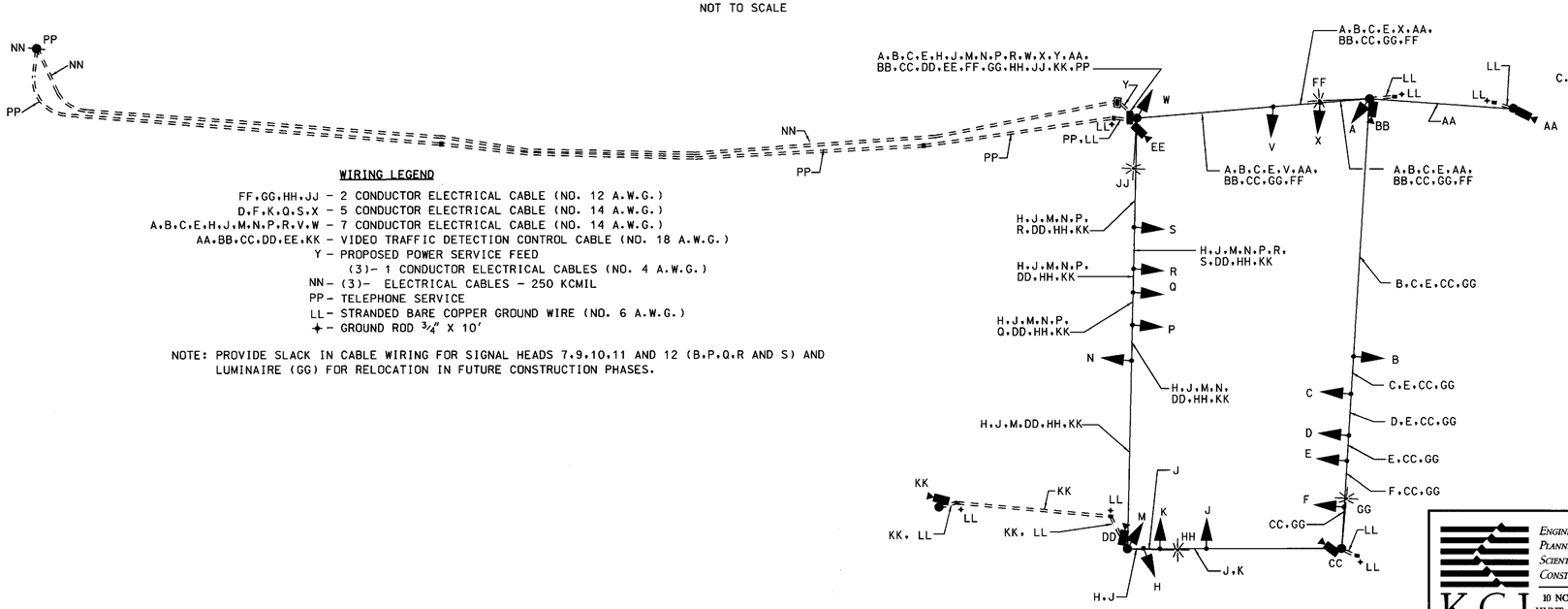
CAT. CODE	QUANTITY		DESCRIPTION
900000	1	EA	VIDEO INTERFACE EQUIPMENT FOR 5 TO 8 CAMERAS
971016	1	EA	EIGHT PHASE (FULLY ACTUATED CONTROLLER AND CABINET POLE MOUNT
973023	197	SF	SHEET ALUMINUM SIGNS CONSISTING OF:
			-8 EACH R3-5L (30"x36") -SPAN WIRE MOUNT
			-2 EACH ASSOCIATED SHIELD ASSEMBLY (48"x75")
			- "NORTH MD 210 LEFT ARROW" - BAND TO POLE
			- "SOUTH MD 210 RIGHT ARROW" - GROUND MOUNT
			-4 EACH D3-2 (VARIABLEx16") DUAL FACE
			- "INDIAN HEAD HWY" - SPAN WIRE MOUNT
			- "OXON HILL RD" - SPAN WIRE MOUNT
			-2 EACH W3-3 (36"x36"), W13-1(30"x24") - GROUND MOUNT
			-1 EACH R1-2 (48"x48") - GROUND MOUNT

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

CAT. CODE	QUANTITY		DESCRIPTION
120500	1	LS	MAINTENANCE OF TRAFFIC
203030	7	CY	TEST PIT EXCAVATION
585624	250	LF	24 INCH HEAT APPLIED WHITE PERM. PREF. THERMO. PVMNT MRKNG
801607	197	SF	INSTALL SHEET ALUMINUM SIGN
805050	2	EA	WEATHER HEAD, 3 INCH
805125	125	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	150	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
807202	1	EA	METERED SERVICE PEDESTAL
810010	90	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
811001	8	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816001	6	EA	VIDEO DETECTION CAMERA
831010	4	EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL
833062	10	LF	4 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
860272	58	EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861116	850	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
861107	180	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	2500	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
866104	4	EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
869101	775	LF	STEEL SPAN WIRE 1/4-INCH DIAMETER
869102	650	LF	STEEL SPAN WIRE 3/8-INCH DIAMETER
871201	1	EA	INSTALL CONTROLLER AND CABINET-POLE MOUNT
800000	1650	LF	ELECTRICAL CABLE - 250 KCMIL
818009	4	EA	14 INCH X 32 FOOT STRAIN POLE (2 PLY)
808037	2	EA	30 FOOT LIGHT STRUCTURE 10 FOOT BRACKET ARM
801003	6	CY	CONCRETE FOR LIGHT FOUNDATION
801004	20	CY	CONCRETE FOR SIGNAL FOUNDATION
821002	2	EA	BREAKAWAY BASE SUPPORT SYSTEM FOR LIGHTING STRUCTURE
833050	10	LF	2 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
802501	70	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805105	400	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
800000	1	EA	VIDEO TRAFFIC DETECTION CONTROL CABLE, 100 FEET
800000	1	EA	VIDEO TRAFFIC DETECTION CONTROL CABLE, 200 FEET
800000	1	EA	VIDEO TRAFFIC DETECTION CONTROL CABLE, 300 FEET
800000	2	EA	VIDEO TRAFFIC DETECTION CONTROL CABLE, 400 FEET
800000	1	EA	VIDEO TRAFFIC DETECTION CONTROL CABLE, 500 FEET

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO MDSHA.
NOTE: NO EQUIPMENT IS TO BE RETURNED TO MDSHA. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR BECOME THE PROPERTY OF THE CONTRACTOR.

STAGE III
WIRING DIAGRAM
NOT TO SCALE



WIRING LEGEND

FF,GG,HH,JJ - 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
D,F,K,Q,S,X - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
A,B,C,E,H,J,M,N,P,R,V,W - 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
AA,BB,CC,DD,EE,KK - VIDEO TRAFFIC DETECTION CONTROL CABLE (NO. 18 A.W.G.)
Y - PROPOSED POWER SERVICE FEED
(3)- 1 CONDUCTOR ELECTRICAL CABLES (NO. 4 A.W.G.)
NN - (3)- ELECTRICAL CABLES - 250 KCMIL
PP - TELEPHONE SERVICE
LL - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
⏚ - GROUND ROD 3/4" X 10'

NOTE: PROVIDE SLACK IN CABLE WIRING FOR SIGNAL HEADS 7,9,10,11 AND 12 (B,P,Q,R AND S) AND LUMINAIRE (GG) FOR RELOCATION IN FUTURE CONSTRUCTION PHASES.

4 ADDENDUM NO. 4
MARCH 10, 2005
SHEET REPLACED

SP-9 OF SP-23

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

TEMPORARY GENERAL INFORMATION SHEET (STAGE III)
MD 210 INDIAN HEAD HIGHWAY AT MD 414 OXON HILL ROAD (DETOURED)

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

DRAWN BY: M. PIERRE	F.A.P. NO. SEE TITLE SHEET	TS NO. 67H-GI-P3	SHEET NO. 289 OF 402
CHECKED BY: J. LAWRENCE	S.H.A. NO. PG5075173		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. E149	
DATE: 12-7-04	LOG MILE: 16021012.95		

PLOTTED: 10:42 AM on Monday, February 14, 2005
BY: McSandy, Pierre Division: Transportation
FILE: m:\1998\98045\20\sp9temp01.dgn