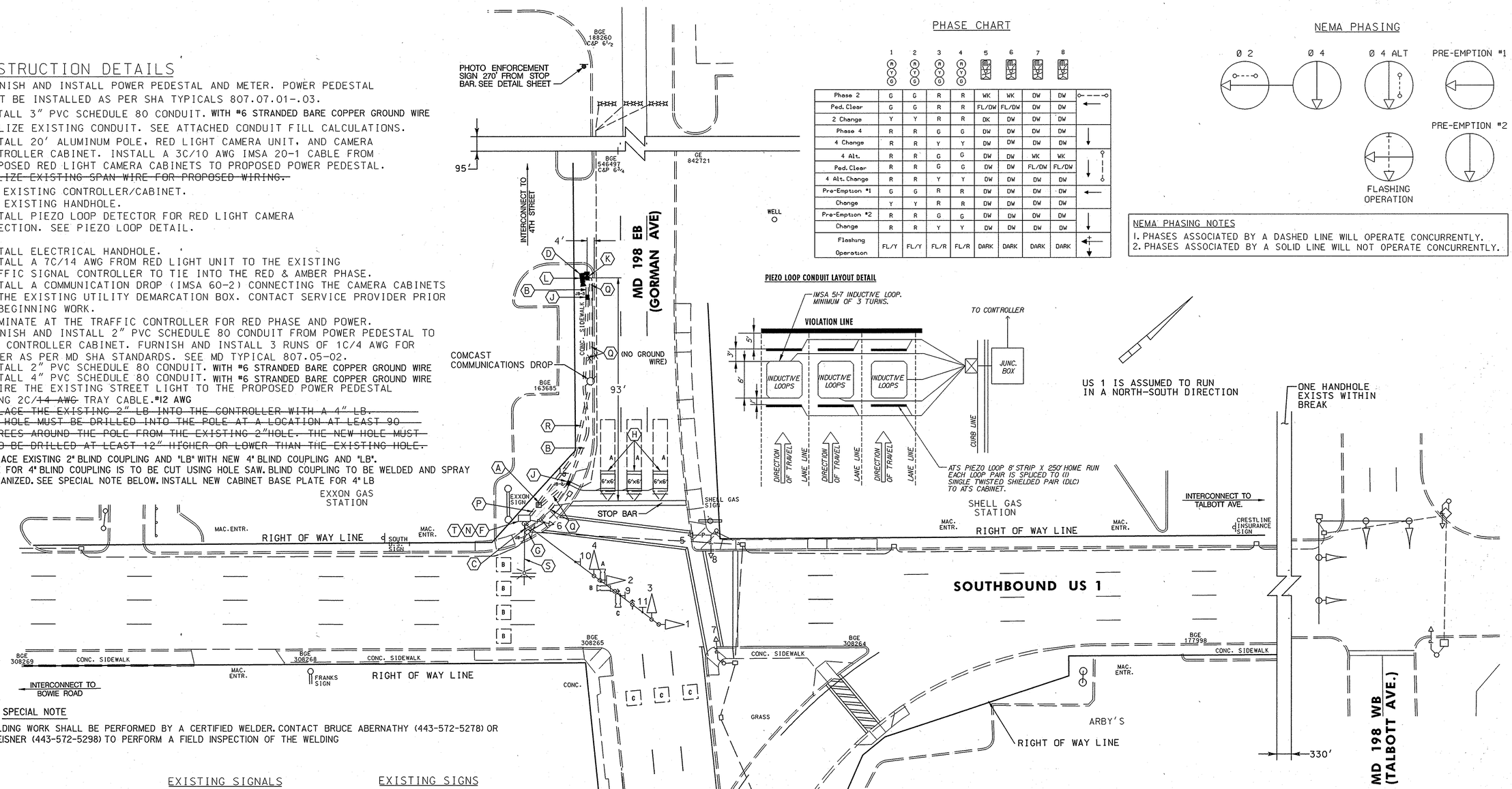
CONSTRUCTION DETAILS

A. FURNISH AND INSTALL POWER PEDESTAL AND METER. POWER PEDESTAL MUST BE INSTALLED AS PER SHA TYPICALS 807.07.01-.03.
B. INSTALL 3" PVC SCHEDULE 80 CONDUIT. WITH #6 STRANDED BARE COPPER GROUND WIRE
C. UTILIZE EXISTING CONDUIT. SEE ATTACHED CONDUIT FILL CALCULATIONS.
D. INSTALL 20' ALUMINUM POLE, RED LIGHT CAMERA UNIT, AND CAMERA CONTROLLER CABINET. INSTALL A 3C/10 AWG IMSA 20-1 CABLE FROM PROPOSED RED LIGHT CAMERA CABINETS TO PROPOSED POWER PEDESTAL.
~~E. UTILIZE EXISTING SPAN WIRE FOR PROPOSED WIRING.~~
F. USE EXISTING CONTROLLER/CABINET.
G. USE EXISTING HANDHOLE.
H. INSTALL PIEZO LOOP DETECTOR FOR RED LIGHT CAMERA DETECTION. SEE PIEZO LOOP DETAIL.
J. INSTALL ELECTRICAL HANDHOLE.
K. INSTALL A 7C/14 AWG FROM RED LIGHT UNIT TO THE EXISTING TRAFFIC SIGNAL CONTROLLER TO TIE INTO THE RED & AMBER PHASE.
L. INSTALL A COMMUNICATION DROP (IMSA 60-2) CONNECTING THE CAMERA CABINETS TO THE EXISTING UTILITY DEMARCATION BOX. CONTACT SERVICE PROVIDER PRIOR TO BEGINNING WORK.
N. TERMINATE AT THE TRAFFIC CONTROLLER FOR RED PHASE AND POWER.
P. FURNISH AND INSTALL 2" PVC SCHEDULE 80 CONDUIT FROM POWER PEDESTAL TO THE CONTROLLER CABINET. FURNISH AND INSTALL 3 RUNS OF 1C/4 AWG FOR POWER AS PER MD SHA STANDARDS. SEE MD TYPICAL 807.05-02.
Q. INSTALL 2" PVC SCHEDULE 80 CONDUIT. WITH #6 STRANDED BARE COPPER GROUND WIRE
R. INSTALL 4" PVC SCHEDULE 80 CONDUIT. WITH #6 STRANDED BARE COPPER GROUND WIRE
S. REWIRE THE EXISTING STREET LIGHT TO THE PROPOSED POWER PEDESTAL USING 2C/~~14 AWG~~ TRAY CABLE. #12 AWG
~~T. REPLACE THE EXISTING 2" LB INTO THE CONTROLLER WITH A 4" LB. THE HOLE MUST BE DRILLED INTO THE POLE AT A LOCATION AT LEAST 90 DEGREES AROUND THE POLE FROM THE EXISTING 2" HOLE. THE NEW HOLE MUST ALSO BE DRILLED AT LEAST 12" HIGHER OR LOWER THAN THE EXISTING HOLE.~~
T. REPLACE EXISTING 2" BLIND COUPLING AND "LB" WITH NEW 4" BLIND COUPLING AND "LB". HOLE FOR 4" BLIND COUPLING IS TO BE CUT USING HOLE SAW. BLIND COUPLING TO BE WELDED AND SPRAY GALVANIZED. SEE SPECIAL NOTE BELOW. INSTALL NEW CABINET BASE PLATE FOR 4" LB



PHASE CHART

	1	2	3	4	5	6	7	8
	R Y G	R Y G	R Y G	R Y G				
Phase 2	G	G	R	R	WK	WK	DW	DW
Ped. Clear	G	G	R	R	FL/DW	FL/DW	DW	DW
2 Change	Y	Y	R	R	DK	DW	DW	DW
Phase 4	R	R	G	G	DW	DW	DW	DW
4 Change	R	R	Y	Y	DW	DW	DW	DW
4 Alt.	R	R	G	G	DW	DW	WK	WK
Ped. Clear	R	R	G	G	DW	DW	FL/DW	FL/DW
4 Alt. Change	R	R	Y	Y	DW	DW	DW	DW
Pre-Emption #1	G	G	R	R	DW	DW	DW	DW
Change	Y	Y	R	R	DW	DW	DW	DW
Pre-Emption #2	R	R	G	G	DW	DW	DW	DW
Change	R	R	Y	Y	DW	DW	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK

NEMA PHASING

NEMA PHASING NOTES
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PIEZO LOOP CONDUIT LAYOUT DETAIL

SPECIAL NOTE

ALL WELDING WORK SHALL BE PERFORMED BY A CERTIFIED WELDER. CONTACT BRUCE ABERNATHY (443-572-5278) OR JOHN WEISNER (443-572-5298) TO PERFORM A FIELD INSPECTION OF THE WELDING

EXISTING SIGNALS

1-4 R Y G 12"
5-8

EXISTING SIGNS

9 Gorman AVE D-3(2) (DUAL FACED) (VARIABLE x 16")
10 R3-1 (30" x 30")
11 R3-2 (30" x 30")
12 SOUTH 1 ASSOCIATED SHIELD ASSEMBLY (24" X 51")

UTILITY LEGEND

G G	GAS MAIN
W W	WATER MAIN
S S	SEWER MAIN
E E	ELECTRIC CABLES
A A	AERIAL CABLES
T T	TELEPHONE CABLES

REDLINE REVISION 1
MARCH 27, 2008
Chris Strain

APPROVED, RICH BAKER, ASSIST. DIV. CHIEF 4/1/08

425 COMMERCE DRIVE
SUITE 200
FORT WASHINGTON, PA. 19034
TELE: (215)-283-9444
FAX: (215)-283-9447
McMAHON TRANSPORTATION ENGINEERS & PLANNERS

REVISIONS	APPROVALS
(C) INSTALL RED LIGHT CAMERA FOR EB APPROACH	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
PM CJS JWB RDB WH WH FOR TH	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
(B) INSTALL OPTICOM PRE-EMPTION FOR EASTBOUND AND SOUTHBOUND TRAFFIC AT6045185 12/04	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
MAM	
(A) RECONSTRUCT TRAFFIC SIGNAL DUE TO GEOMETRIC IMPROVEMENTS 11/99	DIRECTOR, TRAFFIC & SAFETY
NML	

ORIGINAL ON FILE

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
SOUTHBOUND US 1 AND MD 198 EB (GORMAN AVE)

DRAWN BY:		F.A.P. NO.		TS NO.	
CHECKED BY:		S.H.A. NO.	P-586-501-385		SHEET NO.
SCALE:	1"= 20'	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO.	
DATE:	11/1999	LOG MILE:	16000113.60	1926 ~~6493~~	1 OF 1