F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	137	156

INTERSECTION OPERATION

MD 26 at Sebastian Boulevard/Waterside Drive

During Phase 1 construction activities, the intersection shall continue operating in a NEMA six-phase, full-actuated mode, with the MD 26 approaches running concurrently. The left turns for MD 26 will be exclusive/permissive and will operate concurrently. The Sebastian Blvd/Waterside Drive approaches will run concurrently.

CONSTRUCTION DETAILS

C. Install handhole.

D. Install 1" liquid tight flexible non-metallic conduit sleeve for loop detector lead-in.

E. Install 2" polyvinyl chloride schedule 40 electrical conduit - trenched/buried.

F. Install 3" polyvinyl chloride schedule 80 electrical conduit - bored/under existing pavement.

H. Install 6' x 30' quadrupole loop detector. (2-4-2 turns)

J. Install 20' lighting arm with 250 Watt High Pressure Sodium lamp and luminaire on existing strain pole.

K. Install 3/8" steel span wire, signal head, signs, and 1/4" tether wire for signs as shown.

L. Remove span wire, signals, signs and associated wiring as shown.

P. Remove existing strain pole, 15' lighting arm, 250 Watt HPS lamp and luminaire, pushbutton and sign.

T. Use existing controller cabinet. Disconnect existing loop detector lead-in cable(s) and install proposed loop detector lead-in cables.

V. Use existing conduit.

W. Use existing span wire, install, relocate, or remove signal heads and/or signs as shown.

X. Use existing handhole.

BB. Cap and abandon existing conduit.

CC. Remove handhole, abandon existing lead-in conduits.

DD. Abandon existing loop detector.

PP. Install 14" x 32' steel strain pole (2 ply), 20' lighting arm with a 250 Watt HPS lamp and luminaire (Note: 1-2" 90 degree polyvinyl chloride conduit bend).

OO. Install 3" ployvinyl cloride schedule 40 electrical conduit - trenched/buried.

QQ. Install 14" x 32' (2 ply) steel strain pole, 20' lighting arm with a 250 Watt HPS lamp and luminaire (Note: 1-3" 90 degree polyvinyl chloride conduit bend (schedule 80)).

UU. Install 3" electrical conduit (schedule 80) - trenched. Install prior to installation of pavement.

XX. Install interconnect cable.

EQUIPMENT LIST

A. Equipment to be furnished by S.H.A.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
6	EA	806	12 inch 1 way 3 section (R,Y,G) polycarbonate signal head having proper span wire mounting bracket and tunnel visors
4	EA	806	12 inch 1 way 5 section (R,Y,G,YA,GA) polycarbonate signal head having proper span wire mounting bracket and tunnel visors
107	SF	813	Sheet aluminum signs (span mount) consisting of:
1	EA		D3-2, (16" x var."), "← Waterside DR /Waterside DR →", Dual faced, (8"/6" & 4" letters)
1	EA		D3-2, (16" x var."), "← Sebastian BLVD/Sebastian BLVD →", Dual faced, (8"/6" & 4" letters)
2	EA		D3-2, (16" x var."), " Liberty RD" Dual faced, (8"/6" & 4" letters)

B. Equipment to be furnished and/or installed by the Contractor.

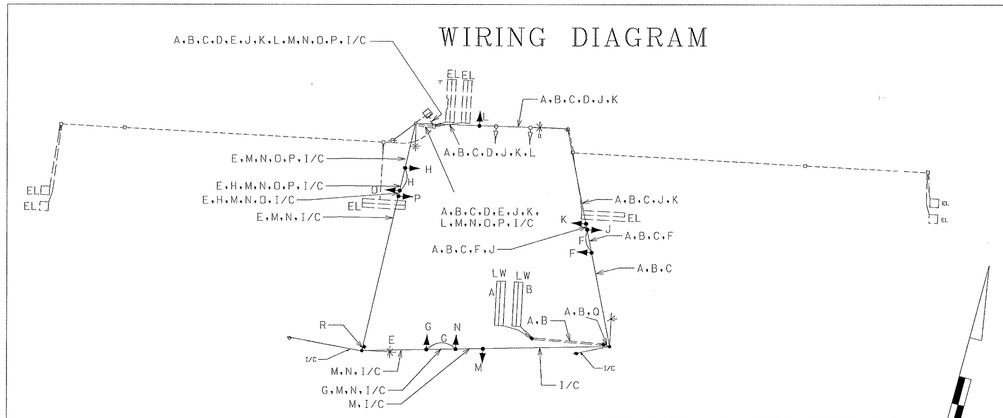
QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	LS	XXX	Remove and salvage existing equipment
9.3	CY	801	Concrete for signal foundation
2	EA	804	Ground rod- 3/4 inch diameter x 10 foot length
20	LF	805	3" schedule 80 rigid PVC conduit- bored
20	LF	805	2" schedule 40 rigid PVC conduit- trenched
20	LF	805	1" liquid tight flexible non-metallic conduit for detector sleeve
3	EA	806	250 Watt High Pressure Sodium lamp and luminaire
3	EA	808	20 foot lighting arm on signal structure
20	LF	810	Electrical cable- 1 conductor (No. 6 AWG) stranded bare copper ground wire
800	LF	810	Electrical cable- 2 conductor copper type tray cable No. 12 AWG
840	LF	810	Electrical cable- 2 conductor (aluminum shielded)
430	LF	810	Electrical cable- 5 conductor (No. 14 AWG)
1200	LF	810	Electrical cable- 7 conductor (No. 14 AWG)
575	LF	810	Loop wire encased in flexible tubing (No. 14 AWG)
3	EA	811	Electrical Handhole
77	SF	813	Install overhead signs
27.25	SF	813	Relocate signs from existing overhead structures
10	EA	814	Install signal heads - span mount
235	LF	815	Sawcut for signal (loop detector)
540	LF	819	Steel span wire- 3/8 inch diameter
6026	LB	828	14" x 32' strain pole (2- ply) (Note: 4- 2¼" x 96" anchor bolts)

PHASE CHART

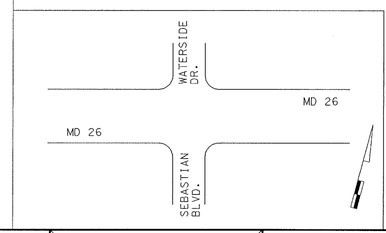
	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	→G←R	→G←R	R	→G←R	→G←R	R	R	R	R	R	R	R
1 & 5 CHANGE	CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6											
PHASE 1 & 6	→G←,G	→G←,G	G	R	R	R	R	R	R	R	R	R
1 CHANGE	→Y← G	→Y← G	G	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	→G← G	→G← G	G	R	R	R	R	R	R
5 CHANGE	R	R	R	→Y← G	→Y← G	Y	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

NOTE:
R = RED INDICATION
Y = YELLOW INDICATION
G = GREEN INDICATION
FL/Y = FLASHING YELLOW
FL/R = FLASHING RED
→G← = GREEN ARROW
→Y← = YELLOW ARROW

WIRING DIAGRAM



A.B - 2 CONDUCTOR ALUMINUM SHIELDED (# 14 A.W.G.)
C-E - 2 CONDUCTOR TRAY CABLE (# 12 A.W.G.)
F-H - 5 CONDUCTOR (# 14 A.W.G)
J-P - 7 CONDUCTOR (# 14 A.W.G.)
R,Q - 1 CONDUCTOR No. 6 AWG STRANDED BARE COPPER GROUND WIRE
LW - LOOP WIRE (# 14 A.W.G.)
EL - EXISTING LOOP
I/C - INTERCONNECT CABLE



PHASE I TEMPORARY TRAFFIC SIGNAL GENERAL INFORMATION

SG-4

DGL
CONSULTING ENGINEERS
COLUMBIA, MARYLAND

REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

ORIGINAL DRAWN BY: RJM
DES. BY: RJM
CHK. BY: 6/95
DATE: 4/95
SCALE: NTS

MD 26 @ SEBASTIAN BLVD/ WATERSIDE DR

LOG MILE = 10002601.62
COUNTY: FREDERICK

F.A.P. NO.
S.H.A. NO. F-174-501-771
TS/FILE NO. 3446A-X1-GI
SHEET NO. 137 OF 156

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