PHASE & SEQUENCE DIAGRAM ⚠5

SYMBOL O = 8" ● = 12"

	TRAFFIC SIGNAL HEADS 1	2	3	4	5	6	7	8
PHASE 1	G	G	R	R	R	R	R	R
PHASE 1 CLEAR	G	G	R	R	R	R	R	R
PHASE 2	G	G	G	G	R	R	R	R
PHASE 2 CLEAR	A	A	A	A	R	R	R	R
PHASE 3	R	R	R	R	G	G	R	R
PHASE 3 CLEAR	R	R	R	R	G	G	R	R
PHASE 4	R	R	R	R	G	G	G	G
PHASE 4 CLEAR	R	R	R	R	A	A	A	A
FLASH	F/A	F/A	F/A	F/A	F/R	F/R	F/R	F/R

LEFT - TURN EQUIPMENT ⚠4 ⚠5

G SIGNAL HEADS - STD CAP VISORS
Remove exist signal heads, #2, #6 and replace with 5 head COMBINATION No. (see plan)
Traffic Signal } #2, #6
Size of indication
12" Red
12" Amber Arrow, 12" Amber
12" Green Arrow, 12" Green

H. CONTROLLER-MODIFICATIONS-
PHASE MODULE(S) FOR ECONOLITE EMC 4000 P/N 31405900 S/N 309 PROGRAM 31454
SOLID STATE LOAD SWITCH(S) COMPATIBLE WITH ECONOLITE CONTROLLER

I LOOPS AND AMPLIFIERS-COMPATIBLE WITH ECONOLITE EMC 4000

GENERAL NOTES

1 The Contractor Is Not Responsible For Providing The Following
A Island Enlargement B Lane Marking

2 The Timing of The Signal System Shall Be Furnished By The Traffic Engineer

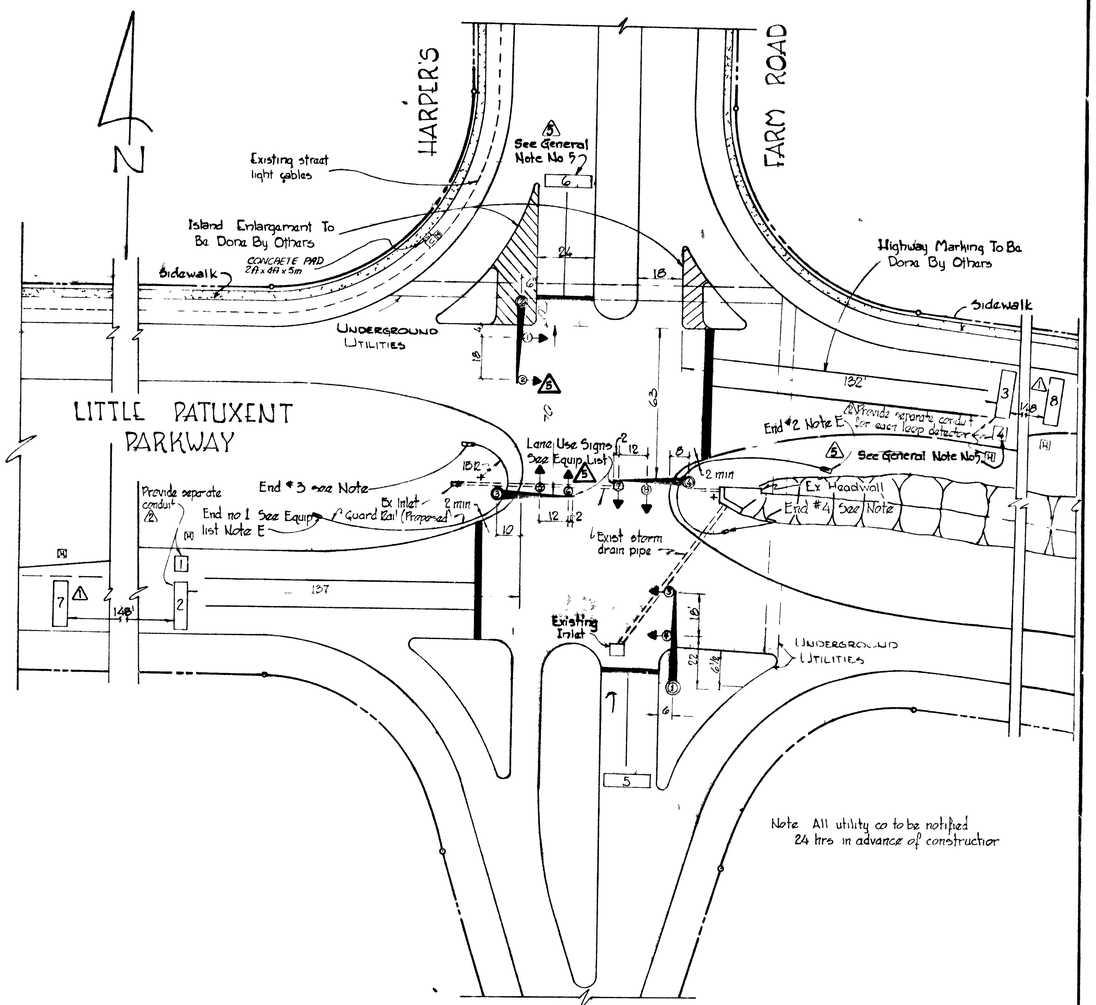
3 The location of all underground utilities shown are approximate and the Contractor must verify the locations by calling Miss Utility at 559 0100

⚠4 The underground conduit will be of sufficient size to accommodate future left turn phase detector and signal wiring. Pole foundations Nos 3 & 4 shall have additional conduit stubs to provide for future left turn detectors and signal wiring

~~⚠5 Install time delay loop detectors~~ for Loops 4 & 6

EXISTING EQUIPMENT LIST

SEE PAGE 9-09 OF SPECIFICATIONS FOR MAKE/MODEL



COMMUNITY COLLEGE ENTRANCE
PLAN
Scale 1 30'

A CONTROLLER

1 Fully Actuated Two (2) Phase Solid State Controller Expandable to three(3) Phase fully Actuated
2 Memory & Recall For Each Phase
3 Standard Police Panel with Manual - Override Option
4 All Red Clearance Interval For Each Phase
5 Conflict Monitor With Solid State Signal Loading Switches
6 Six (6) Loop Detector Amplifiers (Loops 1 & 3 & 4 wired in parallel)
7 Minimum Acceptable Adjustment Range
a) Major & Minor Street Initial Period and Unit Extension 2-30 sec
b) Major & Minor Street Extension 10 60
c) Vehicle Clearance Interval & All Red Clearance Interval up to 10
8 Base Mounted Control Cabinet Large Enough to Accomodate the Ultimate Four Phases
The cabinet shall be finished bronze

B DETECTORS - Location in Accordance With Plan

⚠3

Detector No (SEE PLAN)	Dimensions
1 & 4	6 x 6
2 & 3	6 x 20
5 & 6	6 x 20
7 & 8	6 x 80

C SIGNAL HEADS

No (SEE PLAN)	Size of Indications
1 2 3 4	12 Red 12 Amber 12 Green
5 6 7 8	12 Red 8 Amber 8 Green

Standard Visors (CAPS) on All Indications

D LANE USE SIGNS SEE MUTCD *

Quantity 2
Location in Accordance With Plan
The Signs Shall Be Tattered

E GUARDRAIL - BEAM

End #1 7 Are to Be Anchored in Accordance With State of Maryland - State Roads Commission Specifications Standard No 660 31 Entitled Guardrail With Beam End Flare
End #3 4 Are to Be Anchored in Accordance With Standard No 660 02 of Same Specifications

* Manual on Uniform Traffic Control Devices

F POLES - MAST ARM

Quantity 4
Location in accordance with Plan
Finish Bronze with manufacturers primer
Dimensions
No 1 47 ft span
No 2 - 32 ft span
No 3 30 ft span
No 4 26 ft span

All mast arms are to be oriented perpendicular to the travel lanes

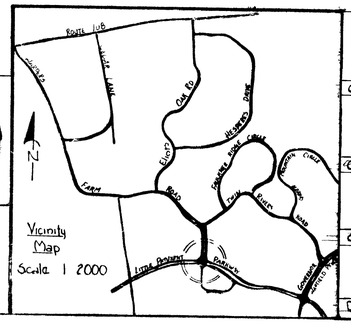
Design Style and appearance equivalent to Union Metal Design 30300

SYMBOLS

- Signal Head
- Vehicle Loop Detector
- Hand Box (Junction Box)
- Meter Box
- Control Cabinet
- Proposed Steel Pole

STATE HIGHWAY ADMINISTRATION
CONTRACT NO HO 523 451 717

FEDERAL AID
PROJECT NO M 3142(1)



REV NO	DESCRIPTION	DATE
⚠5	Signal Adjustment & loop detectors	7/11/81
⚠4	Left turn Phases	3/24/81
⚠3	[illegible]	Aug 97
⚠2	[illegible]	[illegible]
⚠1	Added Detectors 7 & 8	Nov 1 1976

Elizabeth A Calvo 7/20/81
CHIEF, DIV OF ROADS, BRIDGES & STM DRNS

James E Kranke 7/20/81
CHIEF, DIV OF TRAFFIC

[illegible] 7/20/81
CHIEF, BUREAU OF ENGINEERING

Charles F Newman 7-21-81
DIRECTOR, DEPT OF PUBLIC WORKS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
TRAFFIC SIGNAL CONSTRUCTION
PLAN AND EQUIPMENT LIST
CAPITAL IMPROVEMENT PROJECT NO T-1-7012
LITTLE PATUXENT PARKWAY AT HARPERS FARM ROAD

Scale As Shown
Date 3/24/81
Sheet 1 of 1
Dwg No T 75-18

Desk DC/EAC
Drwn EAC/DC
Chkd JK
Apprv EAC/JK

LPPHARP3