TRAFFIC SIGNAL HEALD  1,2 3,4 5,6 7,6 7,10 11,10  DIAGRAM  7	Nin. Green  Vellow  Vellow  Minimum Gob  Max. Green II  Max. Green	Phase Mode	SQ XXX	SITE OCATION STATE OF THE STATE
Phase G G R R Y,R R Phase 2  Phase 2  Phase 3  Phase 3  Phase 6  Phase 3  Phase 6  Phase 6	of small vehicles.	3 Pulse, lock 3 Presence, lock 2 Presence, non-lock ith 6' x 3' power head for detection (6'x 8')	Boraco Propries	DERS OF COLUMBA MALL PATUXENT
Phase 2 Clear to Phase 2 Clear to Phase 2 Clear to Phase 3 Phase 3 R R R R G G R R R G G R R R G G R R R G G R R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R G R R R G R R R G R R R R R R R R R R R R R R R R R R R R	Each loop shall have a set 1, 2 and 4 shall be zero  1, 2 and 4 shall be zero  10 seconds.  3. During phases 1 and 2, a seconds.	separate amplifier. The delay on loops o and the delay for loop 3 shall be a single actuation of loop 1, 2, or 3 2 and 3. Loops 2 and 3 shall also be		VICINITY MAP
To Phase   R   Y   G   R   Y   Y   R   Y   R   Y   R   Y   R   R		e Sarasota 235T/MS or approved equal.  accordance with manufacturer's recommenda-	Trans. 0 3 Min (Typ)  Fans. 0 12 12 16 W2	Scale 1"-2000"
1. The above times are in seconds 2. The controller shall rest in Phase Lunless there is a 3. The timing of maximum shall start at the beginning of 4. MAX. I shall be in effect between 10:30 p.m. and 7:30 a between 7:30 a.m. and 10:30 p.m.  GENERAL NOTES	of the green Phase	2"W7	H	
<ol> <li>All highway marking and sign removal shall be the responsibility of the Division of Traffic Engineering of the Bureau of Engineering, Department of Public Works, of Howard County, Maryland, and is not to be considered a part of this contract,</li> <li>a. Approximate location of existing utilities is shown. The</li> </ol>	1. NEMA three phase modular programmable controller with solid	80 - 25 - 25 - 25 - 25 - 25 - 25 - 25 - 2	PATUXENT PARKWAY	-7=
Contractor shall take all necessary precautions to protect existing utilities and to maintain uninterrupted service.  Any damage incurred shall be repaired immediately to the satisfaction of the Engineer by the Contractor at the Contractor's expense.	<ul> <li>a. Equipped with three vehicular actuated modules, one of which shall have volume density controls.</li> <li>b. Vehicular actuated phase modules shall be capable of the following functions: Minimum Green, Extension, Yellow, All Red Clearance, Dual Maximum, Recall and Memory.</li> </ul>	LITTLE	PLAN Scale: 1"=50'	Con English English
b. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities. Cost shall be incidental to the items in the Proposal Itemization.  c. Contractor shall notify the following utilities or agencies	c. Vehicular actuated phase module with volume density controls shall be capable of the following functions: Mini- mum Green, Extension, Yellow, All Red Clearance, Dual Naximum, Added Initial. Time to Reduce, Time Before Reduction, Minimum Gap, Recall and Memory.	SIGNAL HEADS  1. The Contractor shall provide the following new signal heads:	and is not h	NOTE  us been derived from record plans based upon field surveys.
at least five (5) days before starting work shown on these plans:  Miss. Utility (Collect) 1-559-0100  Baltimore Gas & Electric Company - Underground Electric	Three phase signal overlap capability.  2. Conflict Monitor and Solid State lead switches.  3. Solid State flasher and switch accessible through police door panel.	1. 2, 3, 4, 5, 6, 9,  12" diameter red indication and 8" amber and green indications (non-optically programmed)  7, 8  12" red indication; 8" amber and green indications (optically programmed)	Street Light  Sign (Pindicates removal by others)  Hand Box  Stop Bar (By Others)  Controller with Electric Meter  Controller with Electric Meter	
Distribution Engineering "Damage Control" - 234-5691  Baltimore Gas & Electric Company - Underground Gas Distribution Engineering "Damage Control" - 234-5533  Chesapeake and Potomac Telephone Co 725-9976	<ol> <li>Solid state digital timer for switching between MAX I and MAX II.</li> <li>Timer shall have a 7-day program, automatic daylight savings time adjustment, display of current time and a 48 hour reserve battery.</li> <li>Ground mounted traffic controller cabinet large enough to accommodate the above control equipment and detectors. The cabi-</li> </ol>	2. All signals shall have baked enamel finish and shall be furnished with tunnel visors. Color shall be M.A. Bruder & Sons, Inc. Seashore Gloss trim 27721, Duradonic Bronze Code 7557581 or equal. All signals shall be vertically mounted on the mast arms with rigid adjustable brackets equivalent to the "VePed Traffic Controls, Inc. Astro-Brac (Model No. O-AB-101)" or approved equal.	Underground Electric Line  Underground Telephone Line  Water Line  Storm Drain  Curb  Bush Or Tree	
d. Clear all utilities by a minimum of 6". Clear all poles  2'-0" minimum or tunnel as required. Cost for tunneling or  bracing at poles shall be incidental to the items in the  Proposal Itemization.  3. All materials and workmanship employed under this contract shall	net shall be furnished with a thermostatically controlled cabinet vent fan.  6. Finish of the cabinet shall be all-weather bronze paint.  7. Meter Box shall be installed in a vandal proof enclosure supplied by the contractor.	POLES  Froposed Poles:  1. Two twin arm support poles with a 90° angle of separation.  One single arm support pole.  2. Style and appearance shall be equivalent to Union Metal Design	<ul> <li>OWN Water Meter</li> <li>OWV Water Valve</li> <li>UNDERGROUND WIRING</li> <li>1. Underground wiring shall be placed in new PVC Conduits under the road surface and in grass areas, as shown on the Contract</li> </ul>	
conform with the "GENERAL SPECIFICATIONS FOR INSTALLATION OF AND EQUIPMENT FOR TRAFFIC SIGNALS FOR HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS" dated October 7, 1974; revised February 18, 1976, and include in the contract specifications as the General Provisions.  4. All disturbed areas shall be properly restored in accordance with		No. 50700. Finish shall be bronze paint.  3. Pole Number  Description  1 36' arm spread supporting two signal heads. 28' arm spread supporting two signal heads.  2 40' arm spread supporting four	Drawings.  2. The conduit shall be sized to accommodate future wiring for pedestrian (WALK/DON'T WALK) signal heads.  3. The Contractor shall furnish an "as-Built" drawing as per	
the Contract Specifications.  5. All signal heads shall be securely wrapped and/or bagged in burlap, when not in use.  DEPARTMENT OF PUBLIC WORKS	PREPARED BY:  THE WILSON T. BALLARD COMPANY	signal heads.  3 32' arm spread supporting two signal heads. 32' arm spread supporting two porting two signal heads.	"General Specifications - 4.02 b."  4. The use of direct lay cable or a combination of conduit and direct lay shall not be acceptable.  C 19442201  TRAFFIC SIGNAL SYSTEM	NO. DATE DESCRIPTION OF REVISION SIGN.  DRAWING SCALE: R. V. DESIGNED
HOWARD COUNTY, MARYLAND  JULE - NUMBER 11-18-83 PERSON DE SUPERING DATE  DIRECTOR OF PUBLIC WORKS DATE CHIEF-BUREAU OF ENGINEERING DATE  FRANCH Andorra Calca 11/28/83  CHIEB ROADS, HRIDGES, STORM DRAINAGE DIVISION DATE	CONSULTING ENGINEERS OWINGS MILLS, MARYLAND		LITTLE PATUXENT PARKWAY AND GOVERNOR WARFIELD PARKWAY  PLAN_AND_EQUIPMENT_LIST	NO   I" = 50'   T.   S.   DRAFT D