EXISTING SIGNS

PROPOSED SIGNS

PROPOSED SIGNALS

NEMA PHASING

WIRING DETAILS - NOT TO SCALE

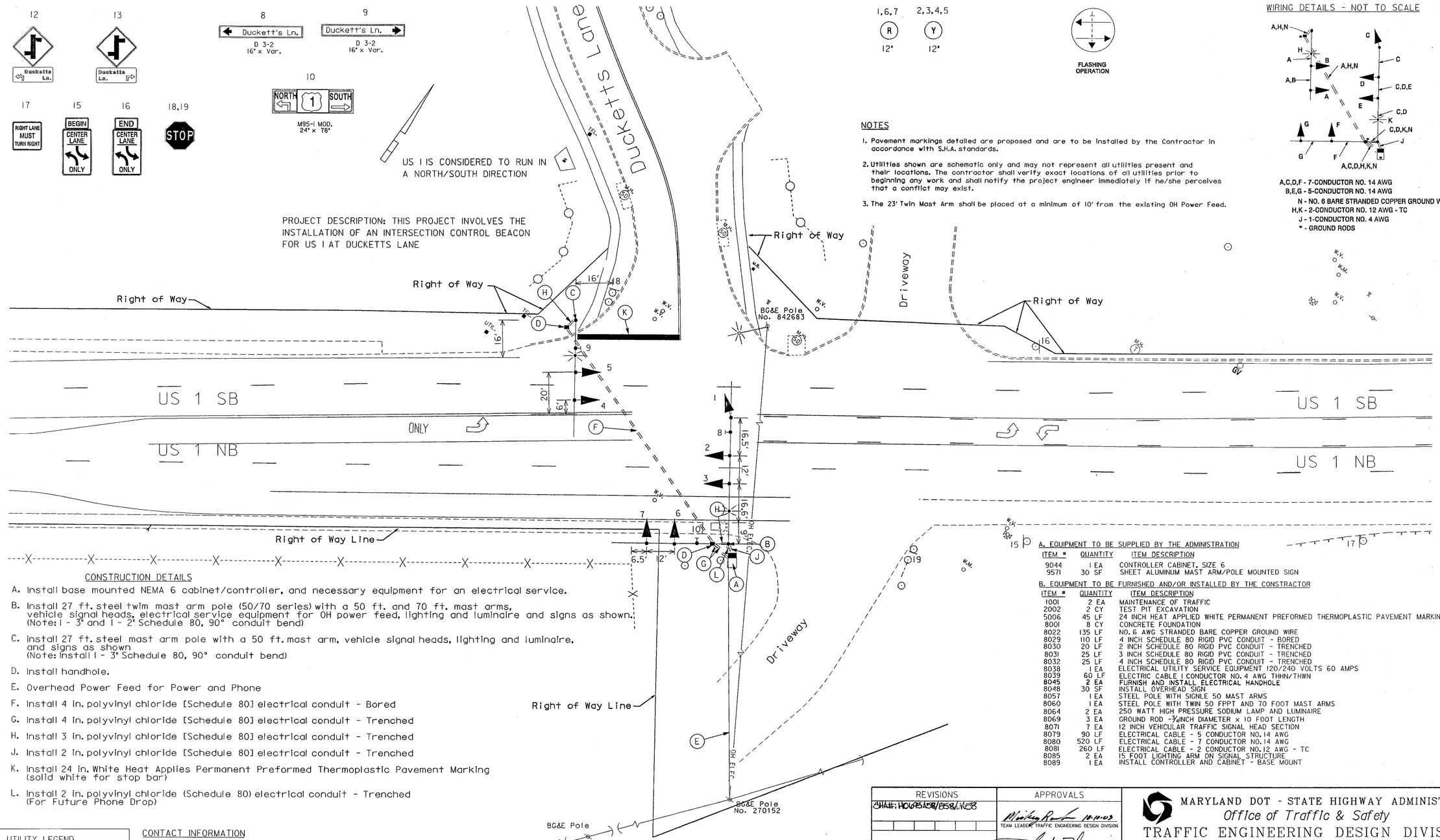
A,C,D,F - 7-CONDUCTOR NO. 14 AWG
B,E,G - 5-CONDUCTOR NO. 14 AWG
N - NO. 6 BARE STRANDED COPPER GROUND WIRE
H,K - 2-CONDUCTOR NO. 12 AWG - TC
J - 1-CONDUCTOR NO. 4 AWG
* - GROUND RODS

NOTES

1. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with S.H.A. standards.
2. Utilities shown are schematic only and may not represent all utilities present and their locations. The contractor shall verify exact locations of all utilities prior to beginning any work and shall notify the project engineer immediately if he/she perceives that a conflict may exist.
3. The 23' Twin Mast Arm shall be placed at a minimum of 10' from the existing OH Power Feed.

US 1 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

PROJECT DESCRIPTION: THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON FOR US 1 AT DUCKETTS LANE



CONSTRUCTION DETAILS

A. Install base mounted NEMA 6 cabinet/controller, and necessary equipment for an electrical service.

B. Install 27 ft. steel twim mast arm pole (50/70 series) with a 50 ft. and 70 ft. mast arms, vehicle signal heads, electrical service equipment for OH power feed, lighting and luminaire and signs as shown. (Note: 1 - 3" and 1 - 2" Schedule 80, 90° conduit bend)

C. Install 27 ft. steel mast arm pole with a 50 ft. mast arm, vehicle signal heads, lighting and luminaire, and signs as shown (Note: Install 1 - 3" Schedule 80, 90° conduit bend)

D. Install handhole.

E. Overhead Power Feed for Power and Phone

F. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - Bored

G. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - Trenched

H. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - Trenched

J. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - Trenched

K. Install 24 in. White Heat Applies Permanent Preformed Thermoplastic Pavement Marking (solid white for stop bar)

L. Install 2 in. polyvinyl chloride (Schedule 80) electrical conduit - Trenched (For Future Phone Drop)

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION
9044	1 EA	CONTROLLER CABINET, SIZE 6
9571	30 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN

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

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
5006	45 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
8001	8 CY	CONCRETE FOUNDATION
8022	135 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8029	110 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8030	20 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8031	25 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8032	25 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8038	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8039	60 LF	ELECTRIC CABLE 1 CONDUCTOR NO. 4 AWG THHN/THWN
8045	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	30 SF	INSTALL OVERHEAD SIGN
8057	1 EA	STEEL POLE WITH SIGNLE 50 MAST ARMS
8060	1 EA	STEEL POLE WITH TWIN 50 FPPT AND 70 FOOT MAST ARMS
8064	2 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8069	3 EA	GROUND ROD -3/4INCH DIAMETER x 10 FOOT LENGTH
8071	7 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8079	90 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO.14 AWG
8080	520 LF	ELECTRICAL CABLE - 7 CONDUCTOR NO.14 AWG
8081	260 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO.12 AWG - TC
8085	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8089	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

UTILITY LEGEND

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

CONTACT INFORMATION

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REVISIONS

SHEET: HOWARD 358/358/NES

APPROVALS

10-11-03
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

10/14/03
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

10-16-03
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

10/16
DIRECTOR, TRAFFIC & SAFETY

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

US 1 and Ducketts Lane

DRAWN BY:	D.J.R.	F.A.P. NO.	AC-STPG-000S(904)E	TS NO. TS 4227	SHEET NO.
CHECKED BY:	A.K.B.	S.H.A. NO.	AT3585185		
SCALE:	1:20	COUNTY:	HOWARD	T.I.M.S. NO. F366	1 OF
DATE:	10/01/03	LOG MILE:	13000108.52		