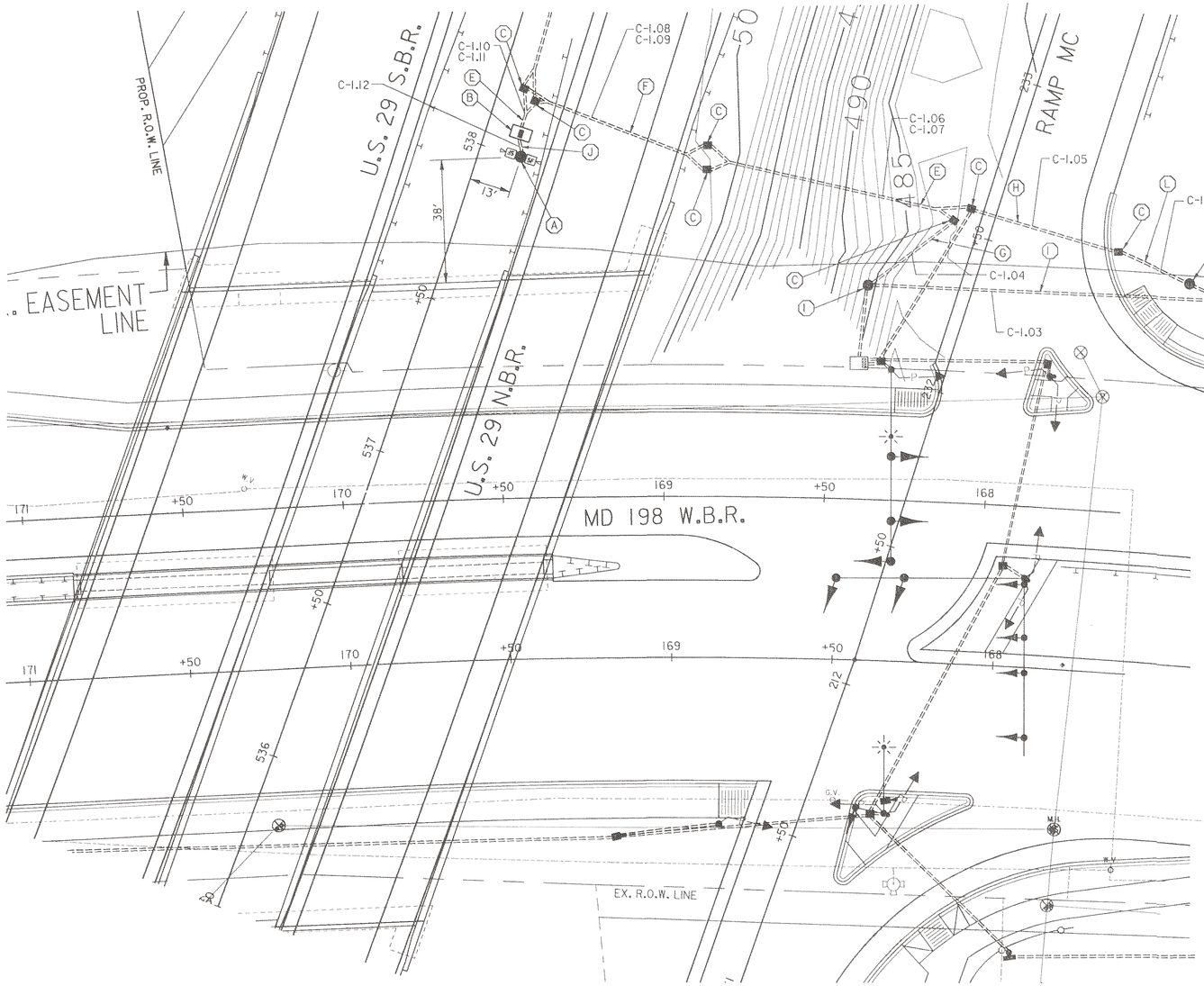

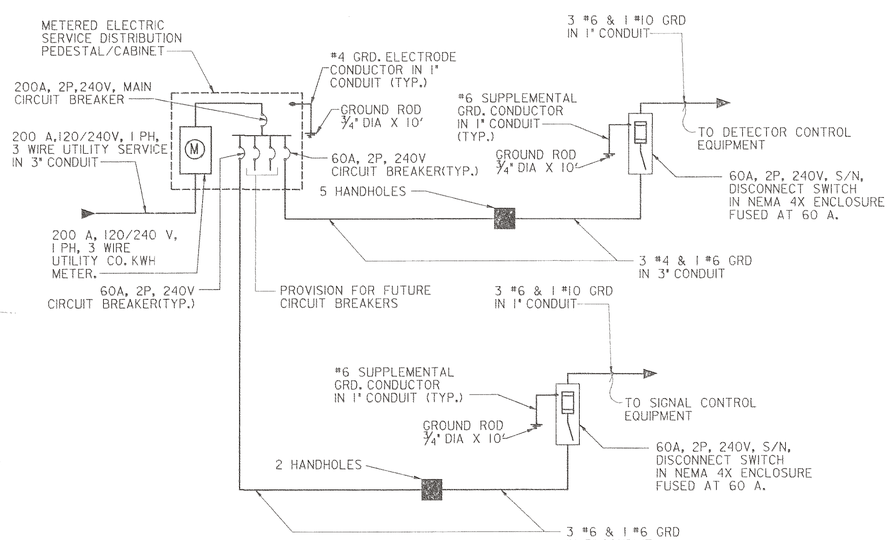

VEHICLE DETECTOR AND SIGNAL POWER SUPPLY ONE LINE DIAGRAM

NOT TO SCALE

CONSTRUCTION DETAILS

A. INSTALL 20 FT. STEEL BREAKAWAY PEDESTAL POLE WITH SIDE FIRE DETECTORS AND MOUNTING EQUIPMENT AS DETAILED ON DWG. NO. ITS-06. (INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE RIGID PVC CONDUIT BENDS IN PEDESTAL BASE).
B. INSTALL BASE MOUNTED NEMA 332 EQUIPMENT CABINET, CONTROL AND DISTRIBUTION EQUIPMENT AND SIDE FIRE DETECTOR CONTROL EQUIPMENT AS DETAILED ON DWG. NO. ITS-03.
C. INSTALL HANDHOLE, AS DETAILED ON DWG. NO. ITS-04.
D. PROPOSED COMMUNICATIONS SERVICE PROVIDED FROM BG&E POLE #551670. INSTALL ONE 3 IN. SCHEDULE 80 RIGID PVC CONDUIT BETWEEN COMMUNICATIONS PEDESTAL AND UTILITY POLE FOR PROPOSED COMMUNICATIONS SERVICE, TRENCHED. EXTEND CONDUIT TO 2 FT. ABOVE GRADE AT BASE OF UTILITY POLE.
E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 3 IN. SCHEDULE 80 RIGID PVC CONDUIT WITH 5-PAIR 22 A.W.G. SHIELDED COPPER CABLE FOR PROPOSED COMMUNICATIONS SERVICE IN COMMON TRENCH. SEE ONE-LINE ELECTRICAL DIAGRAM FOR CABLE INSTALLATION.
F. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 4 IN. SCHEDULE 80 RIGID PVC CONDUIT WITH 5-PAIR 22 A.W.G. SHIELDED COPPER CABLE FOR PROPOSED COMMUNICATIONS SERVICE IN COMMON TRENCH DURING ROADWAY CONSTRUCTION, PRIOR TO FINAL OVERLAY. SEE ONE-LINE ELECTRICAL DIAGRAM FOR CABLE INSTALLATION.
G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE, TRENCHED.
H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT WITH 5-PAIR 22 A.W.G. SHIELDED COPPER CABLE FOR PROPOSED COMMUNICATIONS SERVICE, TRENCHED, DURING ROADWAY AND SIDEWALK CONSTRUCTION, PRIOR TO FINAL OVERLAY.
I. SEE DWG. NO. SP-05 FOR METERED SERVICE PEDESTAL AND CONDUIT INSTALLATION.
J. INSTALL ONE 3 IN. SCHEDULE 80 RIGID PVC CONDUIT, TRENCHED, WITH VEHICLE DETECTOR LEAD-IN CABLE.
K. INSTALL COMMUNICATIONS SERVICE PEDESTAL.
L. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT WITH 5-PAIR 22 A.W.G. SHIELDED COPPER CABLE FOR PROPOSED COMMUNICATIONS SERVICE, TRENCHED.

CONDUIT SCHEDULE

CONDUIT CODE	TYPE•	LENGTH (LF)	CONDUIT CODE	TYPE•	LENGTH (LF)
C-1.01	3" TR	15	C-1.09	4" TR	70
C-1.02	3" TR	25	C-1.10	3" TR	20
C-1.03	4" TR	120	C-1.11	3" TR	20
C-1.04	3" TR	40	C-1.12	3" TR	15
C-1.05	4" TR	60			
C-1.06	3" TR	100			
C-1.07	3" TR	100			
C-1.08	4" TR	70			

• ALL CONDUIT SHALL BE SCHEDULE 80 RIGID PVC UNLESS OTHERWISE NOTED IN TABLE

TR - TRENCHED CONDUIT
DB - DIRECTIONAL BORE
SL - SLOTTED

GENERAL NOTES

1. CONTRACTOR MAY BE REQUIRED TO EITHER HAND DIG OR DIRECTIONALLY BORE C-1.06 AND C-1.07.
2. ALL ITS SUPPORT STRUCTURES AND POLES SHALL HAVE A "NATIONAL PARK SERVICE BROWN" COLOR TREATMENT.
3. C-1.03 IS TO BE INSTALLED DURING THE SIGNAL CONSTRUCTION. SEE DWG. NO. SP-05.

WHITNEY BAILEY COX MAGNANI
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SUITE 100
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(410) 512-4500

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION — 3/22/04
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 3/22/04
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — 3/24/04
DIRECTOR, OFFICE OF TRAFFIC & SAFETY — 3.24.04

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIDE FIRE DETECTOR SITE - US 29 AT MD 198
US 29 RELOCATION & INTERCHANGE IMPROVEMENTS
FROM SOUTH OF BLACKBURN RD. TO NORTH OF DUSTIN RD.

DRAWN BY:	J.E.H./M.E.V.	F.A.P. NO.	AC-NH-G-109-K(451)N	TS NO.	
CHECKED BY:	J.W.H.	S.H.A. NO.	M0867510		SHEET NO.
SCALE:	1"=20'	COUNTY:	MONTGOMERY	T.I.M.S. NO.	8 OF 20
DATE:	SEPTEMBER 2003	LOG MILE:	3.64	E856	

DWG. NO. ITS-01

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