PROPOSED SIGNS

MD 650 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

27 — University BLVD >00000 (D-3(1) (DUAL FACED) (VARIABLE x 16"))

31 — University BLVD <00000 (D-3(1) (DUAL FACED) (VARIABLE x 16"))

36 — University BLVD <00000 (D-3(1) (DUAL FACED) (VARIABLE x 16"))

33 — University BLVD >00000 (D-3(1) (DUAL FACED) (VARIABLE x 16"))

29,30,35,40,45 — ONLY (R3-5L (30" x 36"))

26 — EAST MARYLAND 193 (ASSOCIATED SHIELD ASSEMBLY (30" X 51"))

28 — WEST MARYLAND 193 (ASSOCIATED SHIELD ASSEMBLY (48" X 75"))

32 — WEST MARYLAND 193 (ASSOCIATED SHIELD ASSEMBLY (30" X 51"))

34 — EAST MARYLAND 193 (ASSOCIATED SHIELD ASSEMBLY (48" X 75"))

38 — SOUTH MARYLAND 650 (ASSOCIATED SHIELD ASSEMBLY (30" X 51"))

39 — NORTH MARYLAND 650 (ASSOCIATED SHIELD ASSEMBLY (48" X 75"))

43 — NORTH MARYLAND 650 (ASSOCIATED SHIELD ASSEMBLY (30" X 51"))

44 — SOUTH MARYLAND 650 (ASSOCIATED SHIELD ASSEMBLY (48" X 75"))

NEMA PHASING

PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

PROPOSED SIGNAL HEADS

1,2,3,6,7,10,11,14,15 — R, Y, G 12" LED

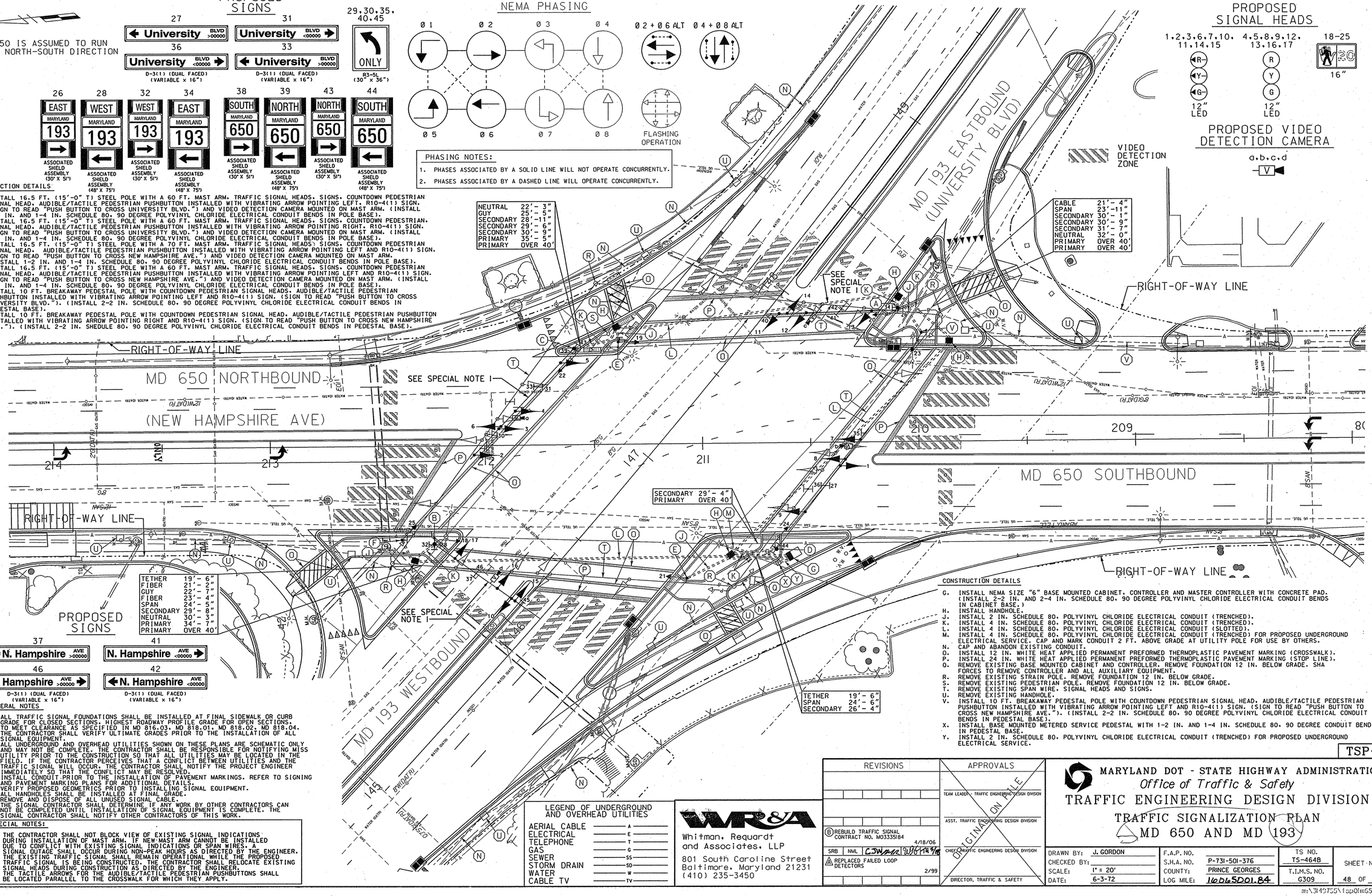
4,5,8,9,12,13,16,17 — R, Y, G 12" LED

18-25 — R3-5 16"

PROPOSED VIDEO DETECTION CAMERA

a,b,c,d — V

VIDEO DETECTION ZONE



CONSTRUCTION DETAILS

A. INSTALL 16.5 FT. (15'-0" T) STEEL POLE WITH A 60 FT. MAST ARM. TRAFFIC SIGNAL HEADS. SIGNS. COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT. R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BLVD.") AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL 16.5 FT. (15'-0" T) STEEL POLE WITH A 60 FT. MAST ARM. TRAFFIC SIGNAL HEADS. SIGNS. COUNTDOWN PEDESTRIAN. SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT. R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BLVD.") AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

C. INSTALL 16.5 FT. (15'-0" T) STEEL POLE WITH A 70 FT. MAST ARM. TRAFFIC SIGNAL HEADS. SIGNS. COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NEW HAMPSHIRE AVE.") AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

D. INSTALL 16.5 FT. (15'-0" T) STEEL POLE WITH A 60 FT. MAST ARM. TRAFFIC SIGNAL HEADS. SIGNS. COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NEW HAMPSHIRE AVE.") AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

E. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEADS. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS UNIVERSITY BLVD."). (INSTALL 2-2 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

F. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NEW HAMPSHIRE AVE."). (INSTALL 2-2 IN. SHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

CONSTRUCTION DETAILS

G. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET, CONTROLLER AND MASTER CONTROLLER WITH CONCRETE PAD. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)

H. INSTALL HANDHOLE.

J. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).

K. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).

L. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).

M. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.

N. CAP AND ABANDON EXISTING CONDUIT.

O. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).

P. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).

Q. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE FOUNDATION 12 IN. BELOW GRADE. SHA FORCES TO REMOVE CONTROLLER AND ALL AUXILIARY EQUIPMENT.

R. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE.

S. REMOVE EXISTING PEDESTRIAN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE.

T. REMOVE EXISTING SPAN WIRE. SIGNAL HEADS AND SIGNS.

U. REMOVE EXISTING HANDHOLE.

V. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-4(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NEW HAMPSHIRE AVE."). (INSTALL 2-2 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

X. INSTALL BASE MOUNTED METERED SERVICE PEDESTAL WITH 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE CONDUIT BEND IN PEDESTAL BASE.

Y. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCE AS SPECIFIED IN MD 816.03. MD 818.01. MD 818.02. MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. INSTALL CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
4. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
5. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
6. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
7. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.

SPECIAL NOTES:

1. THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW-MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRES. A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
2. THE EXISTING TRAFFIC SIGNAL SHALL REMAIN OPERATIONAL WHILE THE PROPOSED TRAFFIC SIGNAL IS BEING CONSTRUCTED. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNAL HEADS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
3. THE TACTILE ARROWS FOR THE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS		
(B) REBUILD TRAFFIC SIGNAL CONTRACT NO. M0335184	SRB	NML
(A) REPLACED FAILED LOOP DETECTORS		

APPROVALS: TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION; ASST. TRAFFIC ENGINEERING DESIGN DIVISION; CHIEF TRAFFIC ENGINEERING DESIGN DIVISION; DIRECTOR, TRAFFIC & SAFETY — ORIGINAL ON FILE

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

TRAFFIC SIGNALIZATION PLAN MD 650 AND MD 193

TSP-1

DRAWN BY: J. GORDON	F.A.P. NO.	TS NO. TS-464B	SHEET NO. 48 OF 85
CHECKED BY:	S.H.A. NO. P-731-501-376		
SCALE: 1" = 20'	COUNTY: PRINCE GEORGES	T.I.M.S. NO. 6309	
DATE: 6-3-72	LOG MILE: 16.06 & 20.01 & 84		

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