BORDER REV. DATE: June 1, 2004

PROPOSED SIGNALS

17-20

16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

EXISTING SIGNALS

4,5,9, 10,13,16 — R Y G — 12"

12,15 — R Y G 3G — 12"

1-3,6-8 — 3R 3Y 3G — 12"

11,14 — R Y G 3G — 8"/12"

EXISTING SIGNALS TO BE REMOVED

17A,18A,19A,20A — 12"

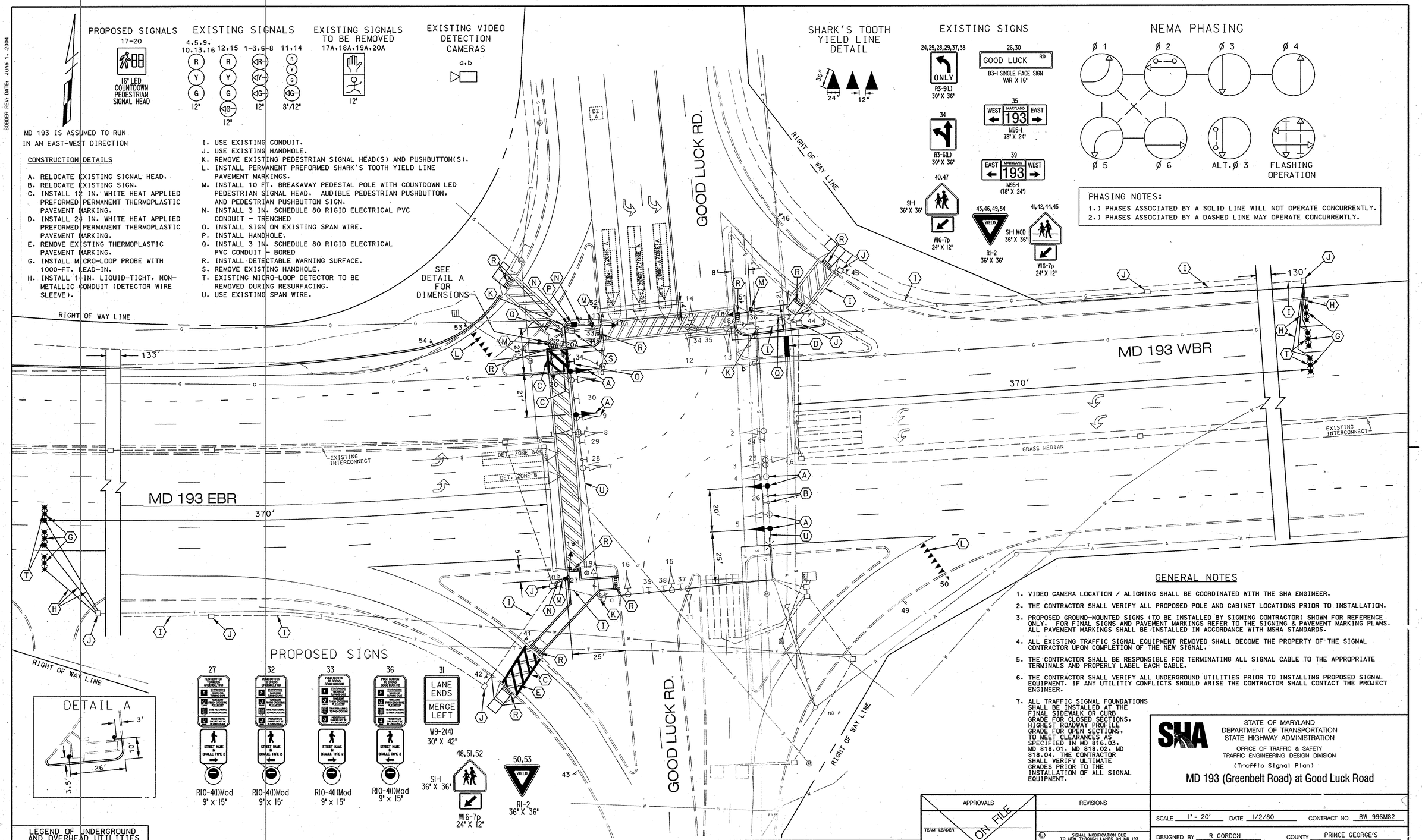
EXISTING VIDEO DETECTION CAMERAS

a,b

MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

CONSTRUCTION DETAILS

A. RELOCATE EXISTING SIGNAL HEAD.
B. RELOCATE EXISTING SIGN.
C. INSTALL 12 IN. WHITE HEAT APPLIED PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKING.
D. INSTALL 24 IN. WHITE HEAT APPLIED PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKING.
E. REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKING.
G. INSTALL MICRO-LOOP PROBE WITH 1000-FT. LEAD-IN.
H. INSTALL 1-IN. LIQUID-TIGHT, NON-METALLIC CONDUIT (DETECTOR WIRE SLEEVE).
I. USE EXISTING CONDUIT.
J. USE EXISTING HANDHOLE.
K. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD(S) AND PUSHBUTTON(S).
L. INSTALL PERMANENT PREFORMED SHARK'S TOOTH YIELD LINE PAVEMENT MARKINGS.
M. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN LED PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON, AND PEDESTRIAN PUSHBUTTON SIGN.
N. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
O. INSTALL SIGN ON EXISTING SPAN WIRE.
P. INSTALL HANDHOLE.
Q. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
R. INSTALL DETECTABLE WARNING SURFACE.
S. REMOVE EXISTING HANDHOLE.
T. EXISTING MICRO-LOOP DETECTOR TO BE REMOVED DURING RESURFACING.
U. USE EXISTING SPAN WIRE.



SHARK'S TOOTH YIELD LINE DETAIL

36" 24" 12"

EXISTING SIGNS

24,25,28,29,37,38 — R3-5(L) ONLY — 30" X 36"

34 — R3-6(L) — 30" X 36"

40,47 — S1-1 — 36" X 36" — W16-7p — 24" X 12"

26,30 — GOOD LUCK RD — D3-1 SINGLE FACE SIGN — VAR X 16"

35 — WEST 193 EAST — M95-1 — 78" X 24"

39 — EAST 193 WEST — M95-1 — (78" X 24")

43,46,49,54 — YIELD — R1-2 — 36" X 36"

41,42,44,45 — S1-1 MOD — 36" X 36" — W16-7p — 24" X 12"

NEMA PHASING

Ø 1 Ø 2 Ø 3 Ø 4

Ø 5 Ø 6 ALT. Ø 3 FLASHING OPERATION

PHASING NOTES:

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

PROPOSED SIGNS

27 — PUSH BUTTON TO CROSS GOOD LUCK RD — STREET NAME IN BRAILLE TYPE 2 — R10-4(I)Mod — 9' x 15'

32 — PUSH BUTTON TO CROSS GOOD LUCK RD — STREET NAME IN BRAILLE TYPE 2 — R10-4(I)Mod — 9' x 15'

33 — PUSH BUTTON TO CROSS GOOD LUCK RD — STREET NAME IN BRAILLE TYPE 2 — R10-4(I)Mod — 9' x 15'

36 — PUSH BUTTON TO CROSS GOOD LUCK RD — STREET NAME IN BRAILLE TYPE 2 — R10-4(I)Mod — 9' x 15'

31 — LANE ENDS / MERGE LEFT — W9-2(4) — 30" X 42"

48,51,52 — S1-1 — 36" X 36" — W16-7p — 24" X 12"

50,53 — YIELD — R1-2 — 36" X 36"

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. PROPOSED GROUND-MOUNTED SIGNS (TO BE INSTALLED BY SIGNING CONTRACTOR) SHOWN FOR REFERENCE ONLY. FOR FINAL SIGNS AND PAVEMENT MARKINGS REFER TO THE SIGNING & PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES 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.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

GEOMETRIC LEGEND

EXISTING
PROPOSED

GREENHORNE & O'MARA
CONSULTING ENGINEERS
810 GLENEAGLES COURT, SUITE 106, BALTIMORE, MD 21286
PHONE: (410) 583-6700 FAX: (410) 583-6704
www.g-and-o.com
FLORIDA GEORGIA MARYLAND NORTH CAROLINA PENNSYLVANIA VIRGINIA WEST VIRGINIA

APPROVALS — ORIGINAL ON FILE

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS

E	SIGNAL MODIFICATION DUE TO NEW THROUGH LANES ON MD 193 — S.H.A. NO. BW996M82				
12/04/06	JGS	CTS	MWB		
D	SIGNAL MODIFICATION DUE TO WIDENING — S.H.A. NO. BW996M82				
1/29/05	MD	TM2	?	?	?	BAL
C	SINGLE MB LEFT LANE CHANGED TO EXCLUSIVE DOUBLE LEFT — S.H.A. NO. BW 611-802-312				
4/21/93	MAM	SR	DAZ	ETP	TH

PLOTTED: Thursday, December 21, 2006
FILE: oTP-01-MD193@GL-V8.dgn

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 193 (Greenbelt Road) at Good Luck Road

SCALE 1" = 20' DATE 1/2/80 CONTRACT NO. BW 996M82

DESIGNED BY R GORDON
DRAWN BY
CHECKED BY
F.A.P. NO.
T.S. NO. 93E

COUNTY PRINCE GEORGE'S
LOGMILE 16019309.40
T.I.M.S. NO. H105
TOD NO.

SHEET NO. 2 OF 10