EXISTING SIGNS

US 113 (WORCESTER HIGHWAY) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

24 EAST MARYLAND 346 · 27 WEST MARYLAND 346 · 28 WEST MARYLAND 346 · 23 EAST MARYLAND 346

25 SOUTH 113 · 21 NORTH 113 · 22 NORTH 113 · 26 SOUTH 113 · 30 ONE WAY · 31 ONE WAY

17,19 ONLY · 29 EVACUATION ROUTE · 15,16 Old Ocean City BLVD · 18,20 Worcester Hwy

AERIAL CABLE DETAIL

PRIMARY	33'+
SECONDARY	25' 1"
COMMUNICATION	19' 0"
GRADE	

EXISTING OPTICOM DETECTOR

32,33

EXISTING SIGNAL HEADS

1,2,5,6 · 3,4,7,8 · 11,14 · 9,12 · 10,13

12" · 12" · 12"/8" · 12"

PROPOSED VIDEO DETECTION CAMERA

a,b,c,d

VIDEO DETECTION ZONE

a, b, c, d

c,d

NEMA PHASING

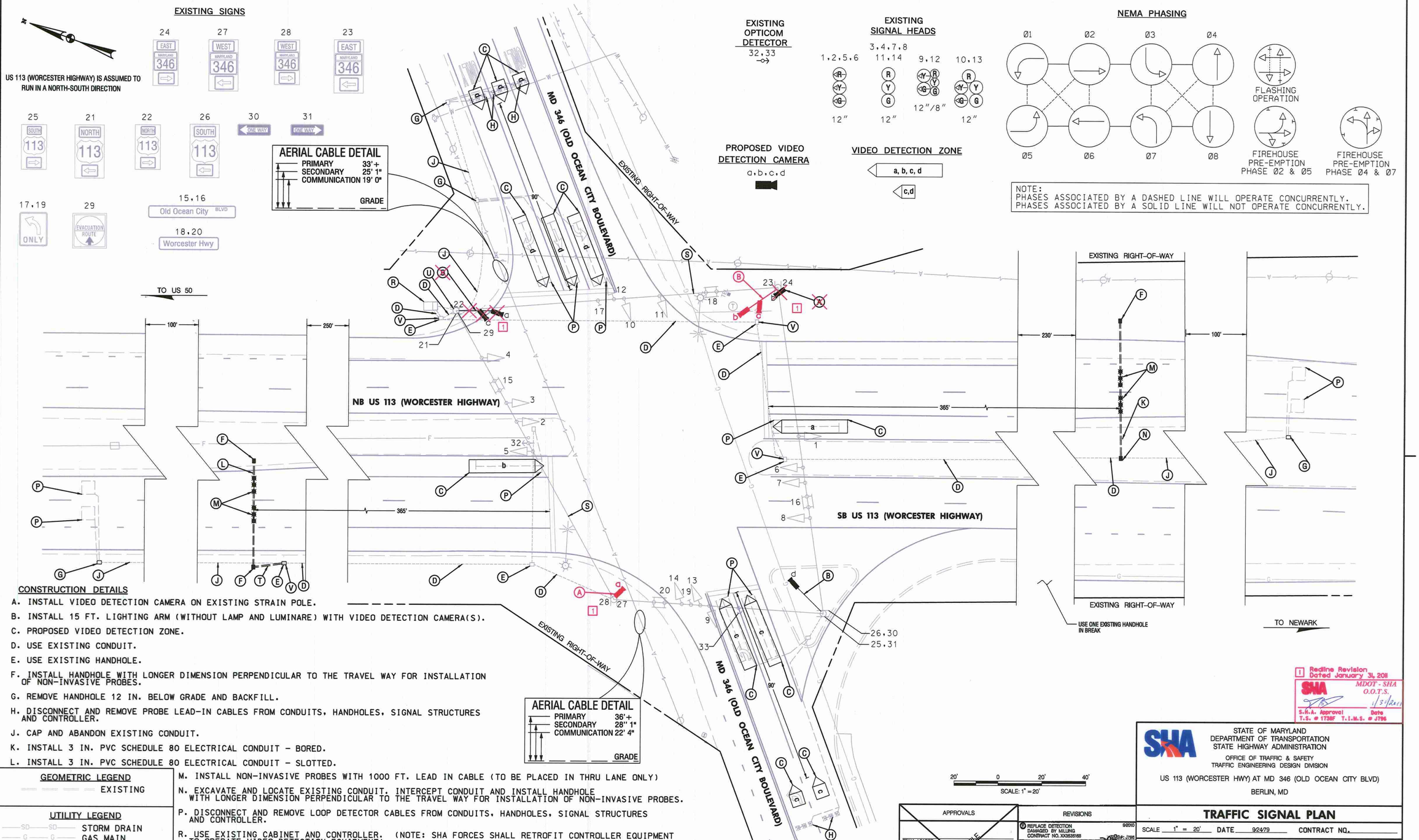
Ø1 Ø2 Ø3 Ø4 / Ø5 Ø6 Ø7 Ø8

FLASHING OPERATION

FIREHOUSE PRE-EMPTION PHASE Ø2 & Ø5

FIREHOUSE PRE-EMPTION PHASE Ø4 & Ø7

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL VIDEO DETECTION CAMERA ON EXISTING STRAIN POLE.

B. INSTALL 15 FT. LIGHTING ARM (WITHOUT LAMP AND LUMINARE) WITH VIDEO DETECTION CAMERA(S).

C. PROPOSED VIDEO DETECTION ZONE.

D. USE EXISTING CONDUIT.

E. USE EXISTING HANDHOLE.

F. INSTALL HANDHOLE WITH LONGER DIMENSION PERPENDICULAR TO THE TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES.

G. REMOVE HANDHOLE 12 IN. BELOW GRADE AND BACKFILL.

H. DISCONNECT AND REMOVE PROBE LEAD-IN CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.

J. CAP AND ABANDON EXISTING CONDUIT.

K. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT – BORED.

L. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT – SLOTTED.

M. INSTALL NON-INVASIVE PROBES WITH 1000 FT. LEAD IN CABLE (TO BE PLACED IN THRU LANE ONLY)

N. EXCAVATE AND LOCATE EXISTING CONDUIT, INTERCEPT CONDUIT AND INSTALL HANDHOLE WITH LONGER DIMENSION PERPENDICULAR TO THE TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES.

P. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.

R. USE EXISTING CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).

S. USE EXISTING SPAN WIRE.

T. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT – TRENCHED

U. INSTALL 3 IN. WEATHERHEAD ON EXISTING STRAIN POLE FOR VIDEO CABLES.

V. ADJUST EXISTING HANDBOX TO GRADE.

AERIAL CABLE DETAIL

PRIMARY	36'+
SECONDARY	28" 1"
COMMUNICATION	22' 4"
GRADE	

GEOMETRIC LEGEND

EXISTING

UTILITY LEGEND

- SD — STORM DRAIN
- G — GAS MAIN
- W — WATER MAIN
- S — SEWER MAIN
- E — ELECTRIC CABLES
- A — AERIAL CABLES
- T — TELEPHONE CABLES
- F — FIBER-OPTIC

BY: khodges

SCALE: 1" = 20'

SABRA, WANG & ASSOCIATES, INC.
1504 10H AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-6564
WWW.SABRA-WANG.COM

APPROVALS

TEAM LEADER

ASST. DIV. CHIEF

DIVISION CHIEF

OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

- B REPLACE DETECTION DAMAGED BY MILLING CONTRACT NO. XX8351181 — 9/2010 — KAH
- B MODIFICATIONS DUE TO GEOMETRIC CHANGES CONTRACT NO. WO4145130 — 2/2009 — DAD, NML
- B INSTALL OPTICOM ON SB US 113 CONTRACT NO. AT2885188 — 4/2003 — MAR, DAZ, TH

1 Redline Revision Dated January 31, 2011

SHA MDOT - SHA O.O.T.S. 1/31/2011

S.H.A. Approval Date

T.S. # 1738F T.I.M.S. # J796

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 113 (WORCESTER HWY) AT MD 346 (OLD OCEAN CITY BLVD)
BERLIN, MD

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 9/24/79 CONTRACT NO.

DESIGNED BY

DRAWN BY BRUCE THOMPSON

CHECKED BY

F.A.P. NO.

COUNTY WORCESTER

LOGMILE 23011328.88

T.I.M.S. NO.

TOD NO.

TS NO. 1738F | DRAWING NO. | OF | SHEET NO. 1 OF 2

PLOTTED: Monday, January 31, 2011 AT 09:35 AM
FILE: R:\2008\73 SHA BCS 2008-05A_TEDD DESIGN_STV_JV_-_SSM\Task 61 US 113 and MD 346 Signal Detector Replacement\Dgn\Redline Number1\pSG-P001_J796.dgn