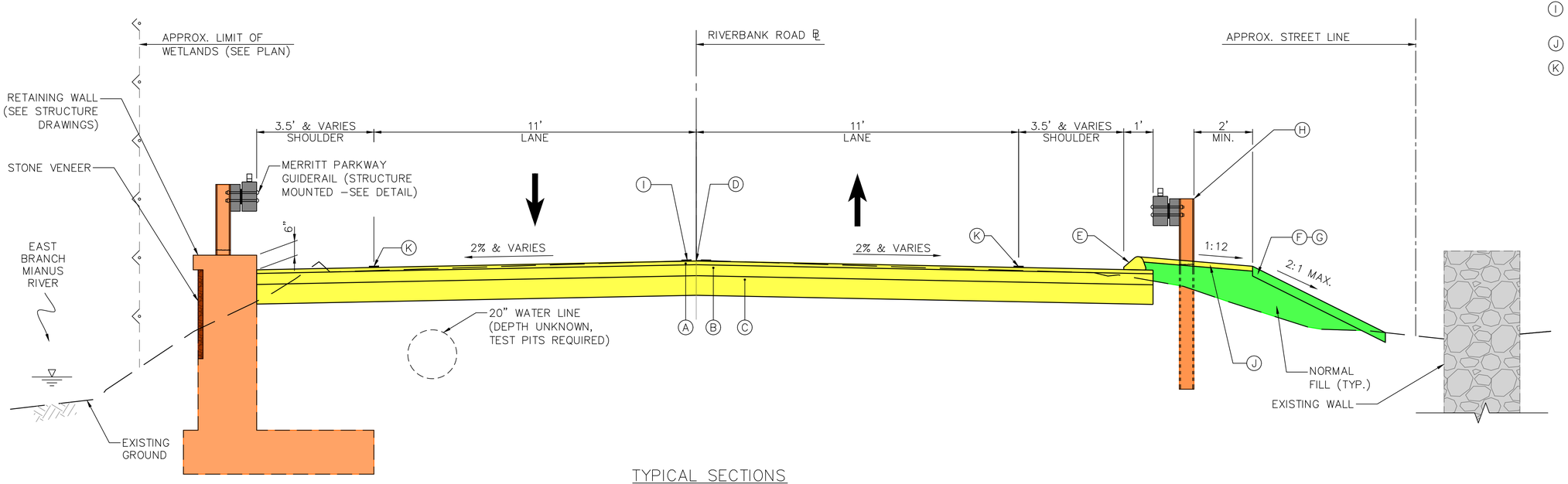
LEGEND

- (A) 1½" HMA S0.375
- (B) 4½" HMA S0.50
- (C) 8" PROCESSED AGGREGATE BASE
- (D) POINT OF APPLICATION OF GRADE
- (E) 6" BITUMINOUS CONCRETE LIP CURBING
- (F) 4" TOPSOIL (COMPACTED THICKNESS)
- (G) TURF ESTABLISHMENT
- (H) MERRITT PARKWAY GUIDERAIL
- (I) 4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
- (J) PAVEMENT FOR RAILING
- (K) 4" WHITE EPOXY RESIN PAVEMENT MARKING



TYPICAL SECTIONS
RIVERBANK ROAD (MINOR ARTERIAL)
STA. 0+75 TO STA. 2+10
NOT TO SCALE

PRELIMINARY DESIGN SUBMISSION

NO.	DATE	DESCRIPTION	CK. BY
		REVISIONS	

FILE NO.: HW_Riverbank Rd_TYP.dwg

CONSULTANT:
GM2 Associates, Inc.
115 Glastonbury Boulevard
Glastonbury, CT 06033

SEAL:

CITY OF STAMFORD
OFFICE OF OPERATIONS
ENGINEERING BUREAU

SURVEYED BY: GM2 ASSOC.	DATE:
DESIGNED BY: YKM	DATE: 1/22/2016
DRAWN BY: YKM	DATE: 1/22/2016
CHECKED BY: AM	DATE: 1/22/2016

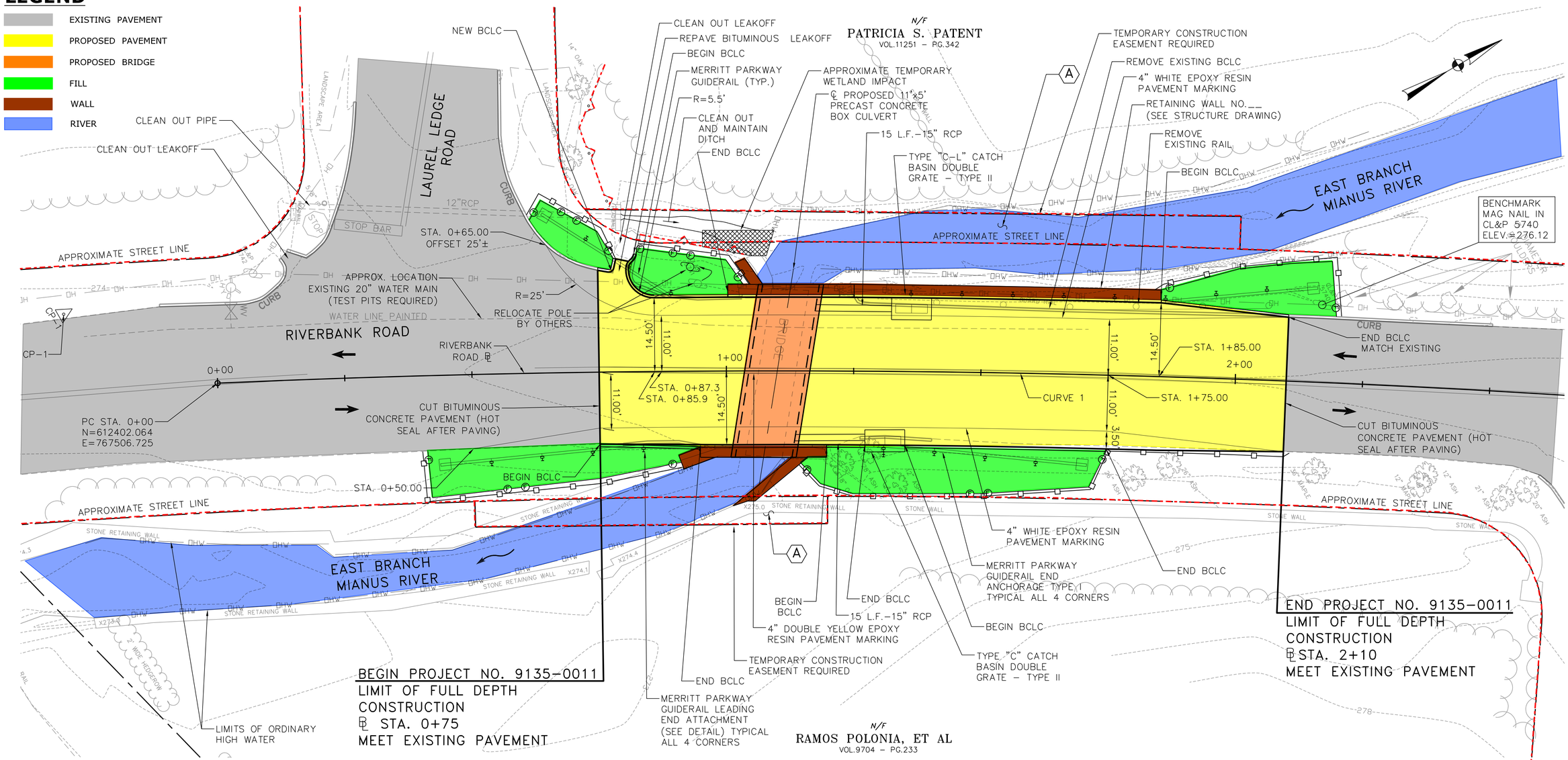
PROJECT TITLE: REPLACEMENT OF RIVERBANK ROAD BRIDGE OVER EAST BRANCH MIANUS RIVER

DRAWING TITLE: TYPICAL SECTION

SCALE: NOT TO SCALE
PROJECT NO.: 9135-0011
DRAWING NO.: TYP-1
SHEET NO.: 4 OF 17

LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- PROPOSED BRIDGE
- FILL
- WALL
- RIVER



CURVE 1 DATA
PC STA. 0+00
N=612402.064
E=767506.725

PT STA. 3+50
N 612700.393
E 767689.208

Δ = 8°01'17.07"
R = 2500 FT.
T = 175.29 FT.
L = 350.00 FT.

LEGEND:

FILL	(F) (F)
SILT FENCE	
CT INLAND WETLANDS FEDERAL WETLANDS	
ORDINARY HIGH WATER	OHW OHW
BCLC	BITUMINOUS CONCRETE LIP CURB

NOTES:

1. REMOVAL OF BITUMINOUS CONCRETE SHALL BE PAID FOR UNDER THE ITEM "EARTH EXCAVATION".
2. ALL AREAS OF DISTURBED EARTH REQUIRE "FURNISHING AND PLACING TOP SOIL" 4" THICK AND "TURF ESTABLISHMENT".
3. OFFSET MERRITT PARKWAY GUIDERAILING POSTS AS REQUIRED AT CATCH BASINS. COSTS TO BE INCLUDED IN THE COSTS OF AFFECTED ITEM.
4. CLEAN OUT ALL DRAINAGE SYSTEMS (LEAKOFFS, SWALES, PIPES AND DITCHES) NEAR THE VICINITY OF THE PROJECT.

PROPERTY LEGEND

(A) TEMPORARY CONSTRUCTION EASEMENT TO CONSTRUCT WINGWALLS, RECONSTRUCT STONE WALL, INSTALL SEDIMENTATION CONTROL SYSTEM.

PRELIMINARY DESIGN SUBMISSION

NO.	DATE	DESCRIPTION	CK. BY
REVISIONS			

FILE NO.: HW_Riverbank Rd_PLAN.dwg

CONSULTANT:
GM2 Associates, Inc.
115 Glastonbury Boulevard
Glastonbury, CT 06033

SEAL:

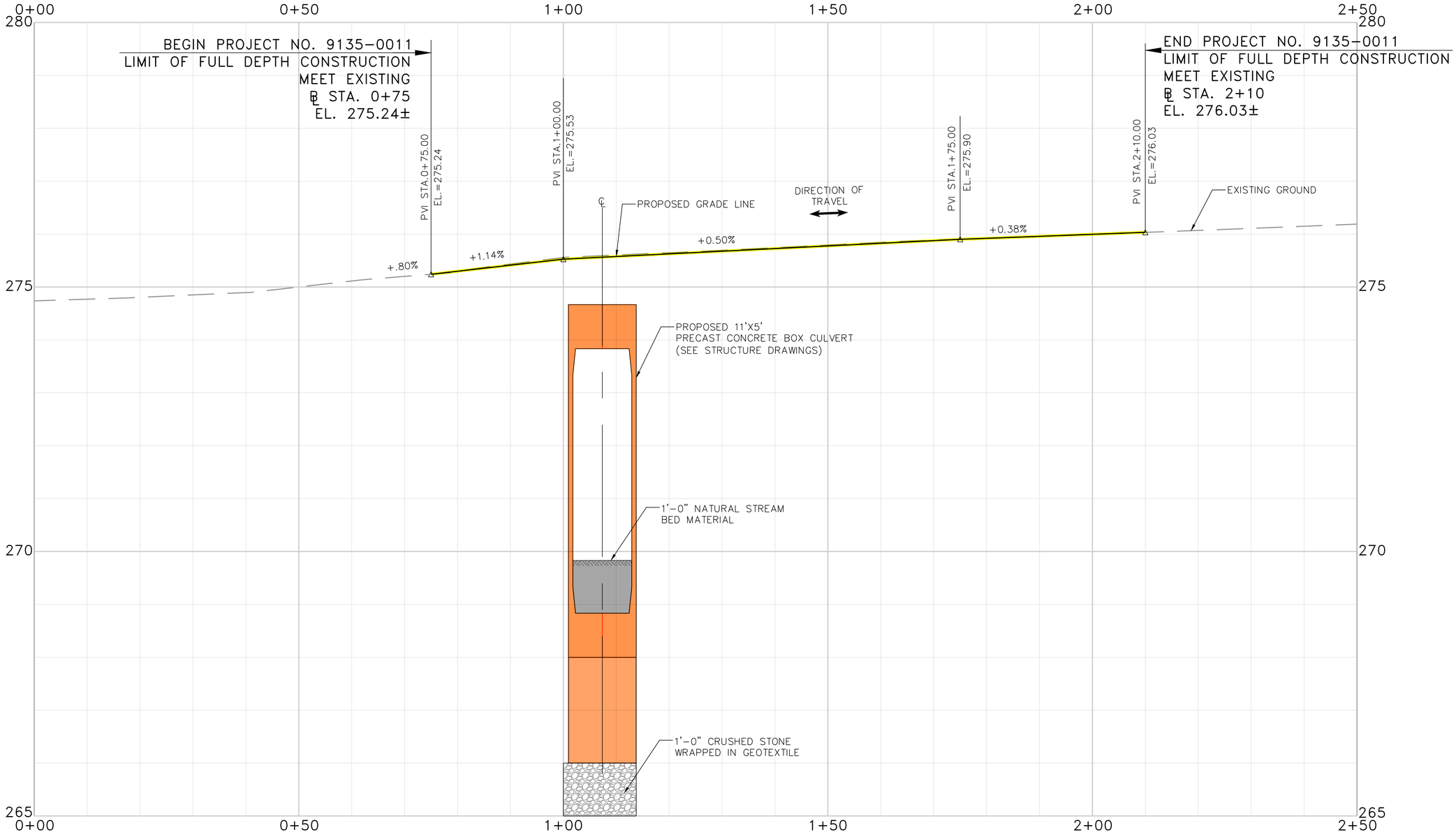
CITY OF STAMFORD
OFFICE OF OPERATIONS
ENGINEERING BUREAU

SURVEYED BY: GM2 ASSOC.	DATE:	DESIGNED BY: YKM	DATE: 01/22/16
DRAWN BY: YKM	DATE: 01/22/16	CHECKED BY: ALM	DATE: 01/22/16

PROJECT TITLE: REPLACEMENT OF RIVERBANK ROAD BRIDGE OVER EAST BRANCH MIANUS RIVER

DRAWING TITLE: ROADWAY PLAN (RIVERBANK ROAD BASELINE)

SCALE: 1"=10'
PROJECT NO.: 9135–0011
DRAWING NO.: HWY–1
SHEET NO.: 5 OF 17



PRELIMINARY DESIGN SUBMISSION

NO.	DATE	DESCRIPTION	CK. BY
		REVISIONS	

FILE NO.: HW_Riverbank Rd_PRO.dwg

CONSULTANT:

GM2 Associates, Inc.
115 Glastonbury Boulevard
Glastonbury, CT 06033

SEAL:

CITY OF STAMFORD
OFFICE OF OPERATIONS
ENGINEERING BUREAU

SURVEYED BY: GM2 ASSOC.	DATE:	DESIGNED BY: YKM	DATE: 01/22/16
DRAWN BY: YKM	DATE: 01/22/16	CHECKED BY: ALM	DATE: 01/22/16

PROJECT TITLE: REPLACEMENT OF RIVERBANK ROAD BRIDGE OVER EAST BRANCH MIANUS RIVER

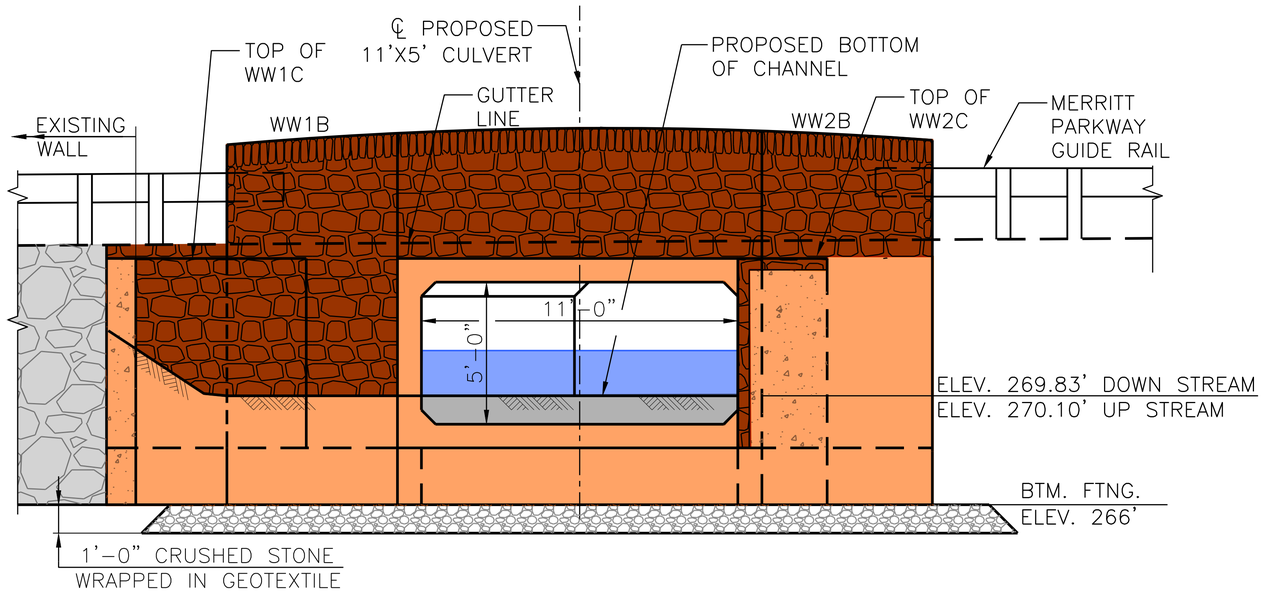
DRAWING TITLE: PROFILE (RIVER BANK ROAD ℄)

SCALE: 1"=10'

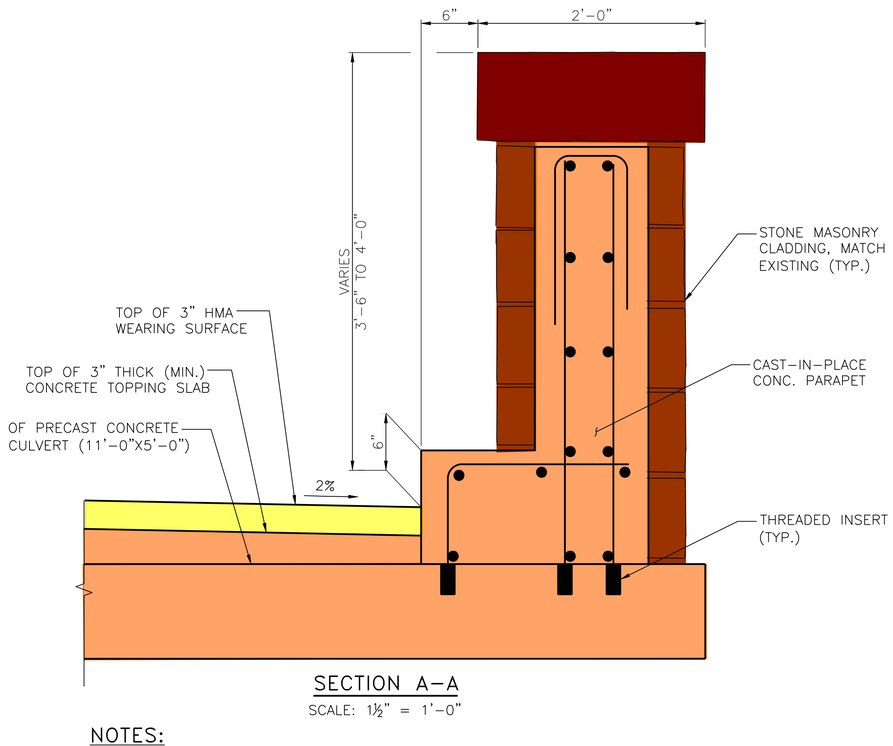
PROJECT NO.: 9135-0011

DRAWING NO.: PRO-1

SHEET NO.: 7 OF 17

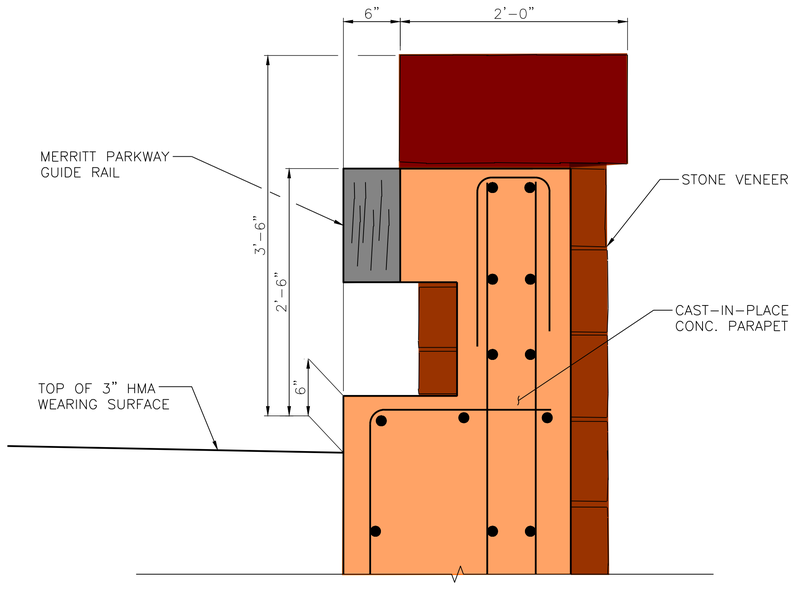


OUTLET ELEVATION



SECTION A–A

SCALE: 1½" = 1'–0"



SECTION B–B

SCALE: 1½" = 1'–0"

NOTES:

1. STONE MASONRY CLADDING WILL BE PAID FOR UNDER ITEM "DIMENSION STONE MASONRY".
2. COST OF THREADED INSERTS SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM "BOX CULVERT (11'–0"X5'–0")".

PRELIMINARY DESIGN SUBMISSION

NO.	DATE	DESCRIPTION	CK. BY

REVISIONS

FILE NO.: STR_River Bank Rd_ELEV.dwg

CONSULTANT:

GM2 ASSOCIATES

GM2 Associates, Inc.
115 Glastonbury Boulevard
Glastonbury, CT 06033

SEAL:

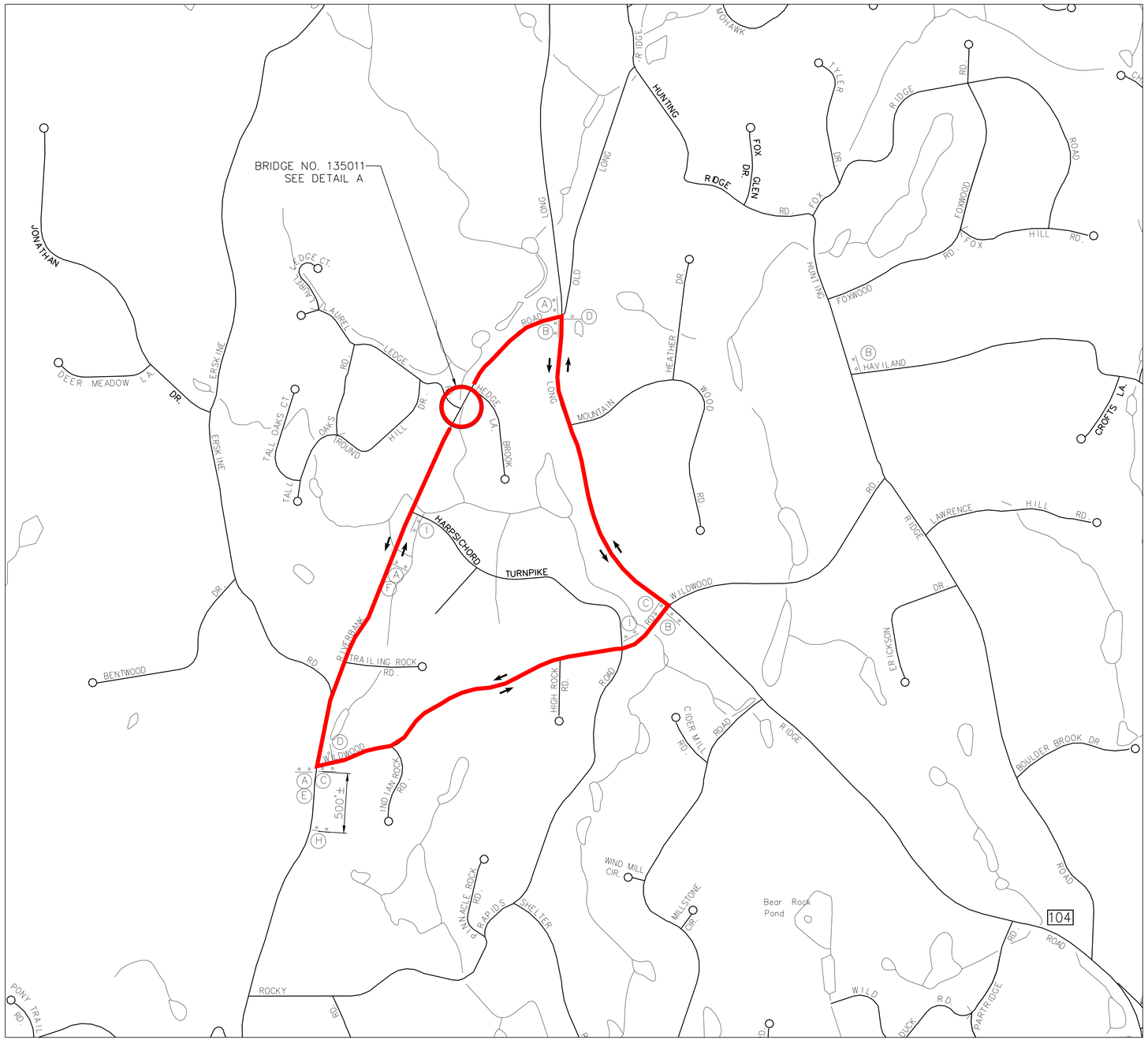
CITY OF STAMFORD
OFFICE OF OPERATIONS
ENGINEERING BUREAU

SURVEYED BY:	DATE:	DESIGNED BY:	DATE:
GM2 ASSOC.	01/28/16	GP	01/28/16
DRAWN BY:	DATE:	CHECKED BY:	DATE:
GP	01/28/16	JG	01/28/16

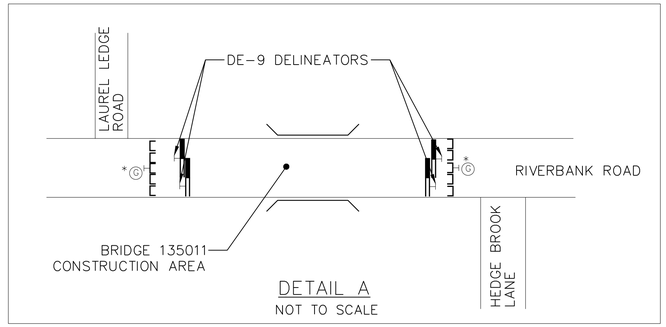
PROJECT TITLE: REPLACEMENT OF RIVERBANK ROAD BRIDGE OVER EAST BRANCH MIANUS RIVER

DRAWING TITLE: PARTIAL OUTLET ELEVATION & PARAPET DETAILS

SCALE:	AS INDICATED
PROJECT NO.:	9135–0011
DRAWING NO.:	STR–5
SHEET NO.:	14 OF 17



SIGNING AND TRAVEL ROUTES FOR RIVERBANK ROAD DETOUR
NOT TO SCALE



DETAIL A
NOT TO SCALE

SIGN LEGEND

(A) RIVERBANK RD / BRIDGE CLOSED / LOCAL TRAFFIC ONLY — 60" × 30" — BLACK / SILVER

(B) RIVERBANK RD / DETOUR ← — 80-9710(L)

(C) RIVERBANK RD / DETOUR → — 80-9710(R)

(D) RIVERBANK RD / END DETOUR — 80-9708

(E) ½ MILE — 80-9829

(F) ¼ MILE — 30" × 10" — BLACK/ORANGE

(G) ROAD CLOSED — 80-9080

RIVERBANK RD — 30" × 10" — BLACK/ORANGE

(H) DETOUR AHEAD — 36" SQ. — BLACK/ORANGE

(I) LOCAL TRAFFIC ONLY — 48" × 30" — BLACK/ORANGE

LEGEND:

- SIGN – 1 POST
- SIGN – 2 POSTS
- SIGN MOUNTED ON TYPE III BARRICADE/TPCBC
- SIGN WITH HIGH INTENSITY BARRICADE WARNING LIGHT
- TYPE III BARRICADE
- TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC)
- DIRECTION OF TRAFFIC
- DETOUR ROUTE

NOTES:

1. REFER TO THE SPECIAL PROVISIONS "MAINTENANCE & PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS" FOR ADDITIONAL REQUIREMENTS.
2. DETOUR SIGNS ARE PAYABLE UNDER ITEM NO. 1220027 – "CONSTRUCTION SIGNS".
3. THE LOCATIONS OF SIGNS SHOWN ON PLANS ARE APPROXIMATE. ACTUAL LOCATIONS OF SIGNS TO BE VERIFIED BY THE ENGINEER.
4. ALL DETOUR SIGNS TO BE INSTALLED ON BREAKAWAY POSTS PER TRAFFIC STANDARD SHEET TR-1208-1, TR-1208-2, AND TR-1220-2.
5. SIGN LOCATIONS SHALL BE ADJUSTED AS NECESSARY TO MAXIMIZE THEIR VISIBILITY WITH RESPECT TO ROADWAY GEOMETRY AT THE DIRECTION OF THE ENGINEER.
6. DETOUR SIGNS ARE TO BE INSTALLED SUCH THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.
7. CONTRACTOR TO NOTIFY THE ENGINEER, THE CITY OF STAMFORD AND ALL EMERGENCY SERVICES AT LEAST TWO WEEKS PRIOR TO THE ROADWAY CLOSURE.

PRELIMINARY DESIGN SUBMISSION

NO.	DATE	DESCRIPTION	CK. BY
REVISIONS			

FILE NO.: TR_Riverbank Road_DTR.dwg

CONSULTANT:
GM2 Associates, Inc.
115 Glastonbury Boulevard
Glastonbury, CT 06033

SEAL:

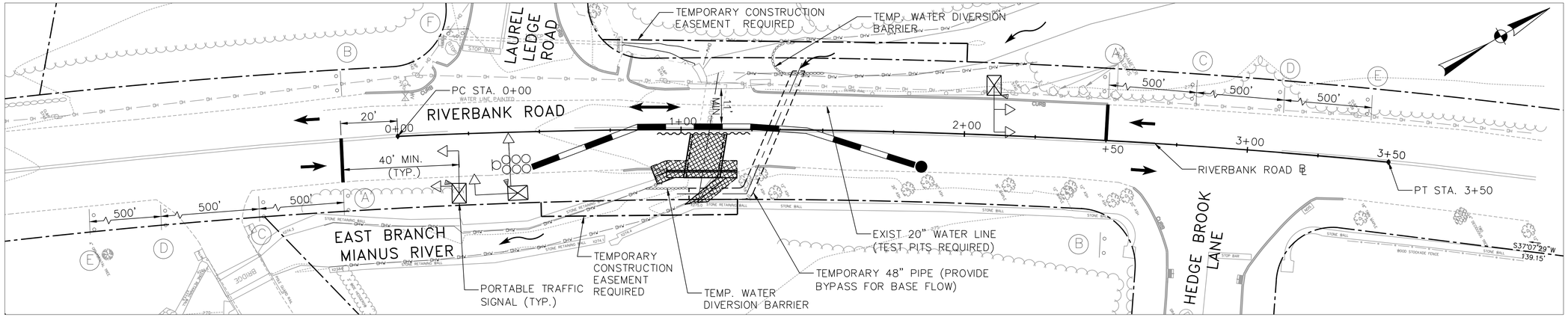
CITY OF STAMFORD
OFFICE OF OPERATIONS
ENGINEERING BUREAU

SURVEYED BY: GM2 ASSOC.	DATE:	DESIGNED BY: SJ	DATE: 01/22/16
DRAWN BY: SJ	DATE: 01/22/16	CHECKED BY: VAA	DATE: 01/22/16

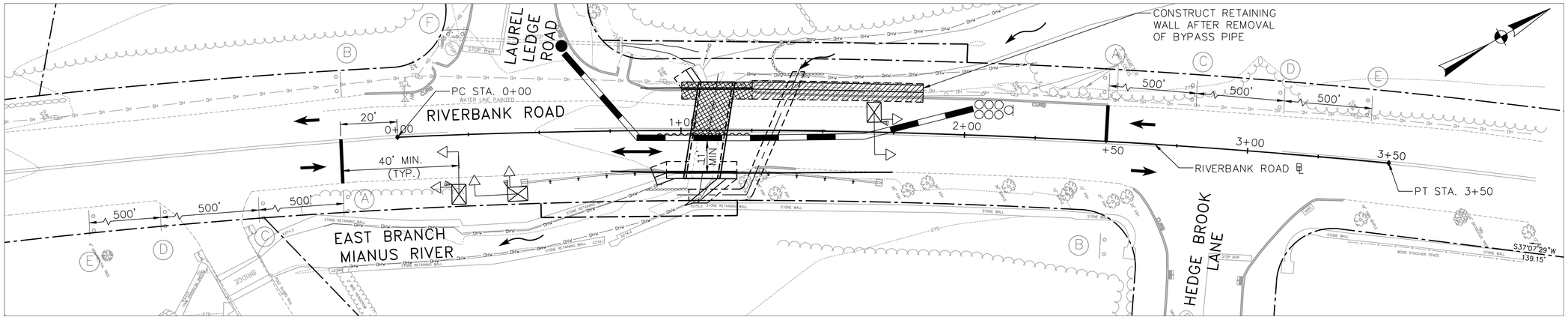
PROJECT TITLE: REPLACEMENT OF RIVERBANK ROAD BRIDGE OVER EAST BRANCH MIANUS RIVER

DRAWING TITLE: OPTION 1 – DETOUR PLAN

SCALE: NOT TO SCALE
PROJECT NO.: 9135-0011
DRAWING NO.: DTR-1
SHEET NO.: 15 OF 17



STAGE 1
NTS



STAGE 2
NTS

PRE-STAGE 1

1. INSTALL TEMPORARY BYPASS PIPE UTILIZING DETAIL FOR ALTERNATING ONE WAY TRAFFIC OPERATION.

STAGE 1

1. INSTALL CONSTRUCTION SIGNS.
2. INSTALL TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC) AND IMPACT ATTENUATION UNIT.
3. REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND INSTALL 12" STOP BAR AS SHOWN.
4. INSTALL PORTABLE TRAFFIC SIGNAL SYSTEM AND AND SHIFT TRAFFIC TO WEST SIDE OF ROAD.
5. CONSTRUCT EASTERN SECTION OF CULVERT.

STAGE 2

1. RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC) AND IMPACT ATTENUATION UNIT USED IN STAGE 1 AS SHOWN.
2. REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND INSTALL 12" STOP BAR AS SHOWN
3. SHIFT TRAFFIC TO EAST SIDE OF ROAD.
4. CONSTRUCT WESTERN SECTION OF CULVERT.

STAGE 3

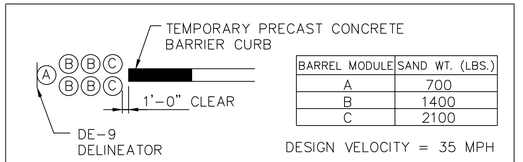
1. REMOVE TEMPORARY BY-PASS CULVERT.
2. CONSTRUCT THE REMAINING RETAINING WALL AT WEST SIDE OF ROAD.
3. CONSTRUCT THE ROADWAY FULL DEPTH FROM STA. 0+75 TO STA. 2+10.
4. COMPLETE ALL ANCILLARY WORK CALLED FOR IN THE PROJECT.

LEGEND

- TRAFFIC DRUM
- TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC)
- DIRECTION OF TRAFFIC AROUND WORK AREA
- WORK AREA
- TEMPORARY IMPACT ATTENUATION SYSTEM

SIGN LEGEND

(A) STOP HERE ON RED — R10-6
(C) W3-3
(D) ONE LANE ROAD AHEAD — W20-4; 20 M.P.H. — W13-1
(E) ROAD WORK AHEAD — W20-1
(F) NO TURN ON RED — R10-11a
(B) END ROAD WORK — G20-2



BARREL MODULE	SAND WT. (LBS.)
A	700
B	1400
C	2100

DESIGN VELOCITY = 35 MPH

TEMPORARY IMPACT ATTENUATION SYSTEM DETAIL
NOT TO SCALE

NOTE:
WATER HANDLING NOT SUBMITTED IN THIS SUBMISSION

PRELIMINARY DESIGN SUBMISSION

NO.	DATE	DESCRIPTION	CK. BY

REVISIONS

FILE NO.: HW_Riverbank Rd_STG.dwg

CONSULTANT:
GM2 Associates, Inc.
115 Glastonbury Boulevard
Glastonbury, CT 06033

SEAL:

CITY OF STAMFORD
OFFICE OF OPERATIONS
ENGINEERING BUREAU

SURVEYED BY:	DATE:	DESIGNED BY:	DATE:
GM2 ASSOC.		YKM	01/22/16
DRAWN BY:	DATE:	CHECKED BY:	DATE:
YKM	01/22/16	ALM	01/22/16

PROJECT TITLE: REPLACEMENT OF RIVERBANK ROAD BRIDGE OVER EAST BRANCH MIANUS RIVER

DRAWING TITLE: OPTION 2 – M&PT PLAN SUGGESTED SEQUENCE OF CONSTRUCTION

SCALE: NOT TO SCALE
PROJECT NO.: 9135-0011
DRAWING NO.: MPT-1
SHEET NO.: 16 OF 17