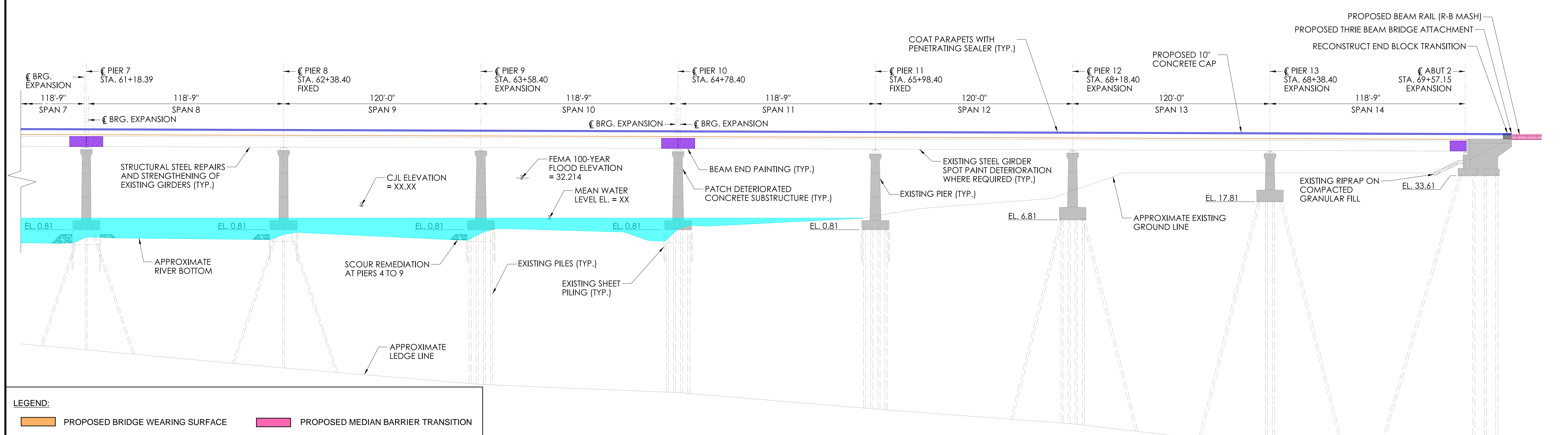
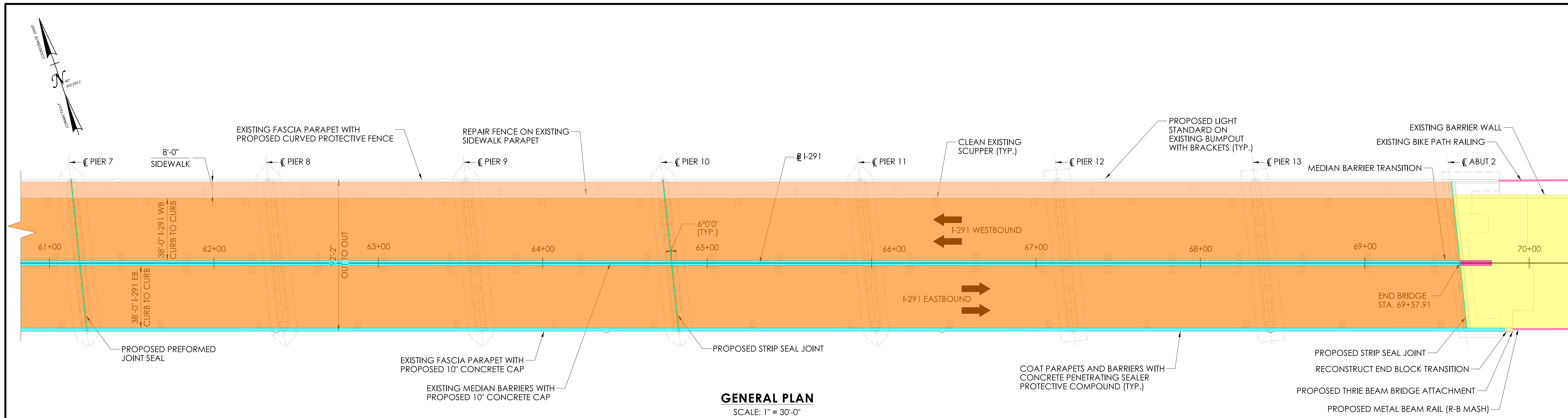


- LEGEND:**
- PROPOSED BRIDGE WEARING SURFACE
 - PROPOSED APPROACH WORK
 - PROPOSED CONCRETE PARAPET CAP
 - EXISTING SIDEWALK
 - BEAM END PAINTING
 - PROPOSED DECK JOINT
 - RECONSTRUCTED END BLOCK TRANSITION
 - PROPOSED MEDIAN BARRIER TRANSITION
 - PROPOSED METAL BEAM RAIL
 - EXISTING SUBSTRUCTURE TO BE PATCHED
 - WATERCOURSE

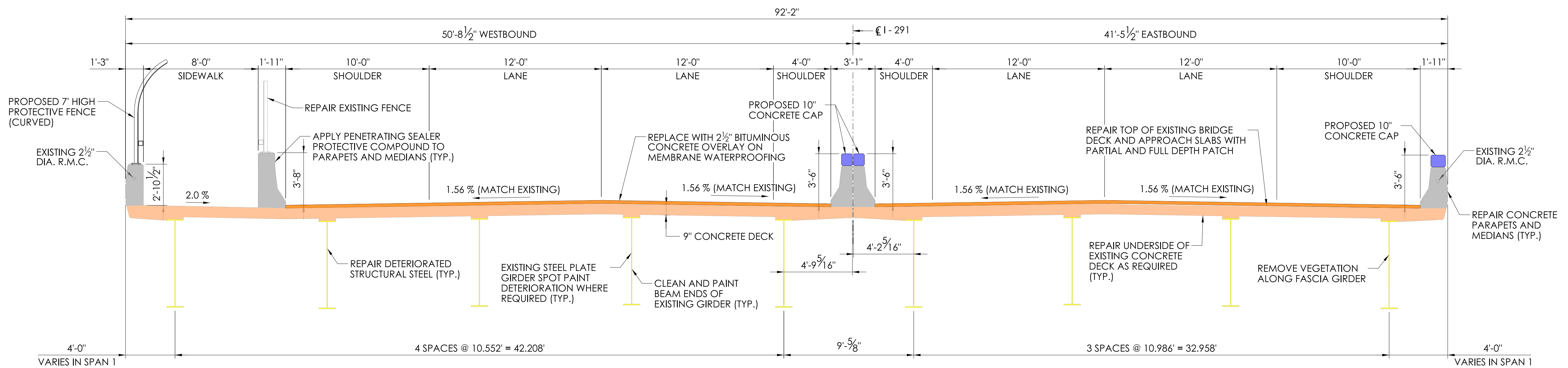
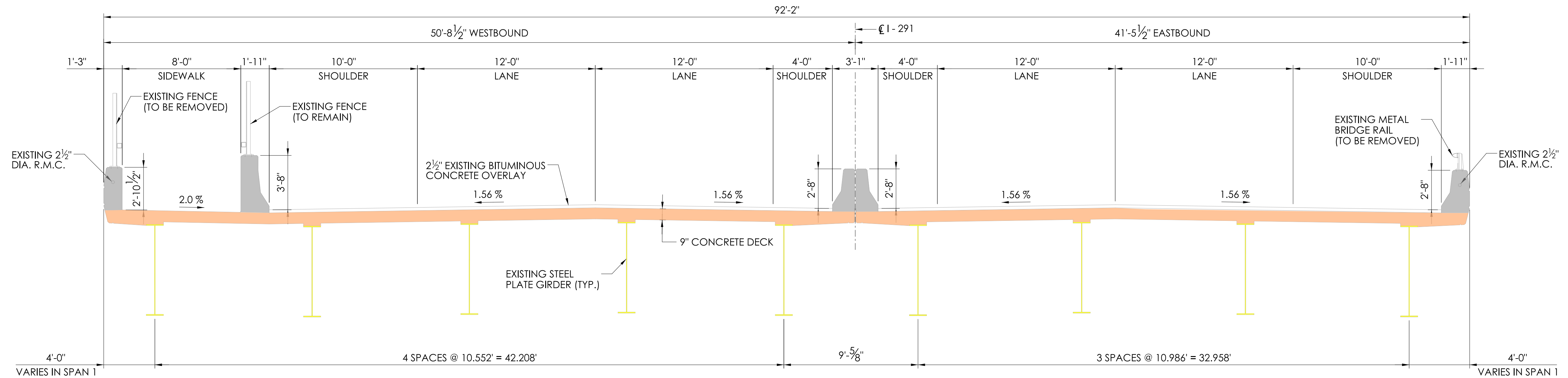
REV.	DATE	REVISION DESCRIPTION



LEGEND:

	PROPOSED BRIDGE WEARING SURFACE		PROPOSED MEDIAN BARRIER TRANSITION
	PROPOSED APPROACH WORK		EXISTING SUBSTRUCTURE TO BE PATCHED
	PROPOSED CONCRETE PARAPET CAP		WATERCOURSE
	EXISTING SIDEWALK		
	BEAM END PAINTING		
	PROPOSED DECK JOINT		
	RECONSTRUCTED END BLOCK TRANSITION		

REV.	DATE	REVISION DESCRIPTION



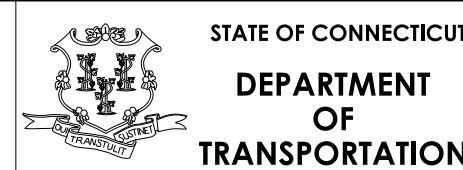
LEGEND:

	PROPOSED BRIDGE WEARING SURFACE
	EXISTING BRIDGE DECK
	PROPOSED CONCRETE PARAPET CAP
	EXISTING PARAPETS AND BARRIERS
	EXISTING STEEL GIRDERS

REHABILITATION STUDY REPORT

DESIGNER/DRAFTER: CLR CHECKED BY: RRC

SIGNATURE/BLOCK:

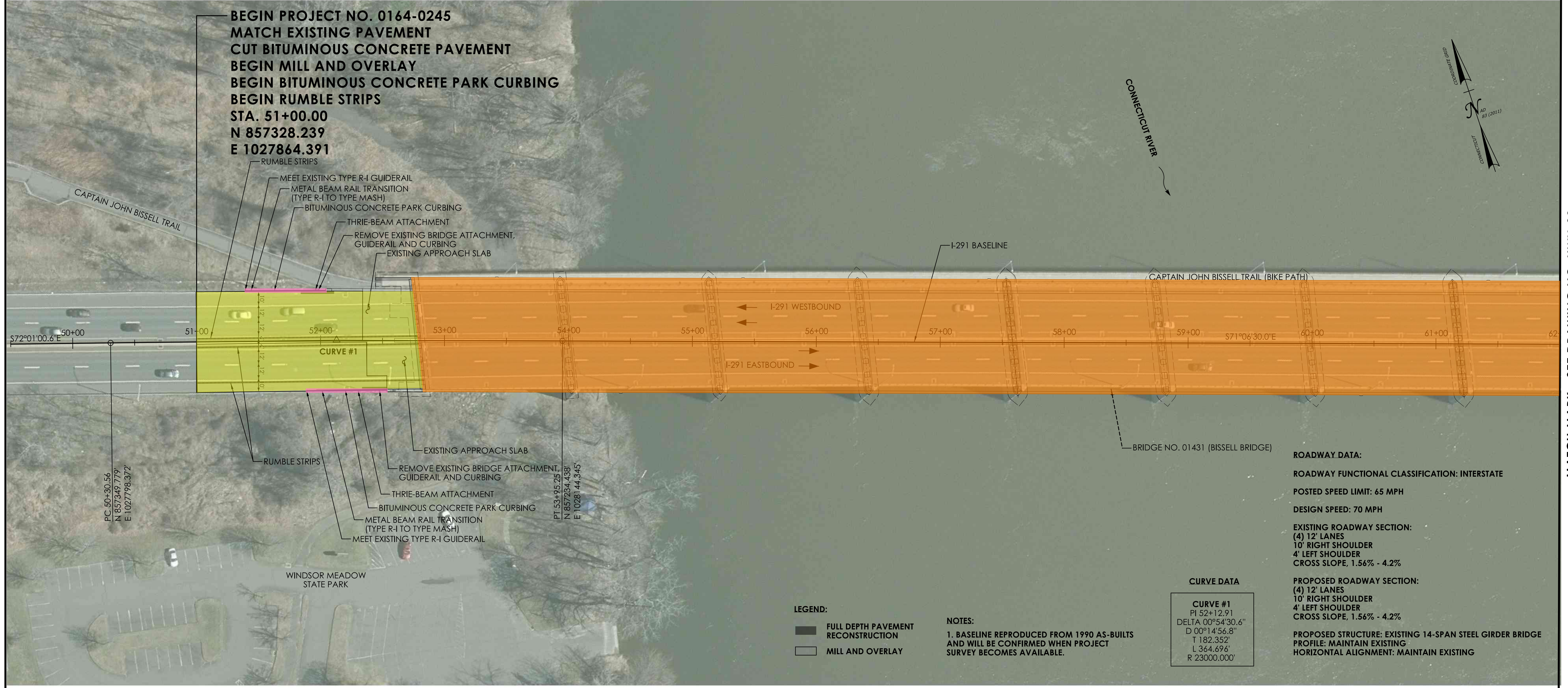


PROJECT NUMBER: 0164-0245
 PROJECT DESCRIPTION: REHABILITATION OF BRIDGE NO. 01431 CARRYING I-291 OVER THE CONNECTICUT RIVER
 TOWN(S): SOUTH WINDSOR AND WINDSOR
 DRAWING TITLE: TYPICAL SECTION

DRAWING NO. S-04
 SHEET NO.

LEGEND:

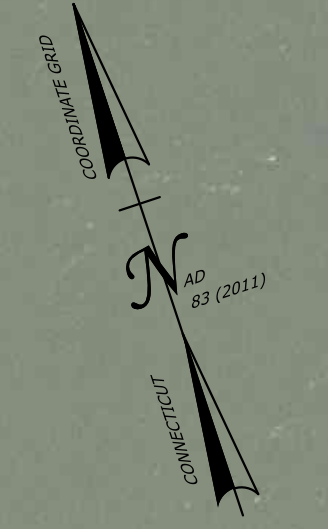
- PROPOSED BRIDGE REHABILITATION
- PROPOSED APPROACH ROADWAY WORK
- PROPOSED APPROACH GUIDERAIL



**BEGIN PROJECT NO. 0164-0245
MATCH EXISTING PAVEMENT
CUT BITUMINOUS CONCRETE PAVEMENT
BEGIN MILL AND OVERLAY
BEGIN BITUMINOUS CONCRETE PARK CURBING
BEGIN RUMBLE STRIPS
STA. 51+00.00
N 857328.239
E 1027864.391**

RUMBLE STRIPS
MEET EXISTING TYPE R-I GUIDERAIL
METAL BEAM RAIL TRANSITION
(TYPE R-I TO TYPE MASH)
BITUMINOUS CONCRETE PARK CURBING
THREE-BEAM ATTACHMENT
REMOVE EXISTING BRIDGE ATTACHMENT,
GUIDERAIL AND CURBING
EXISTING APPROACH SLAB
RUMBLE STRIPS
EXISTING APPROACH SLAB
REMOVE EXISTING BRIDGE ATTACHMENT,
GUIDERAIL AND CURBING
THREE-BEAM ATTACHMENT
BITUMINOUS CONCRETE PARK CURBING
METAL BEAM RAIL TRANSITION
(TYPE R-I TO TYPE MASH)
MEET EXISTING TYPE R-I GUIDERAIL

CONNECTICUT RIVER



50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00

CURVE #1

CAPTAIN JOHN BISSELL TRAIL (BIKE PATH)

I-291 WESTBOUND

I-291 EASTBOUND

I-291 BASELINE

BRIDGE NO. 01431 (BISELL BRIDGE)

ROADWAY DATA:
ROADWAY FUNCTIONAL CLASSIFICATION: INTERSTATE
POSTED SPEED LIMIT: 65 MPH
DESIGN SPEED: 70 MPH
EXISTING ROADWAY SECTION:
(4) 12' LANES
10' RIGHT SHOULDER
4' LEFT SHOULDER
CROSS SLOPE, 1.56% - 4.2%

CURVE DATA

CURVE #1
PI 52+12.91
DELTA 00°54'30.6"
D 00°14'56.8"
T 182.352'
L 364.696'
R 23000.000'

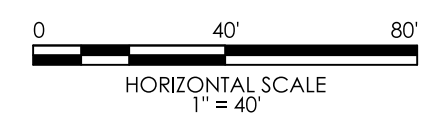
LEGEND:
■ FULL DEPTH PAVEMENT RECONSTRUCTION
□ MILL AND OVERLAY

NOTES:
1. BASELINE REPRODUCED FROM 1990 AS-BUILTS AND WILL BE CONFIRMED WHEN PROJECT SURVEY BECOMES AVAILABLE.

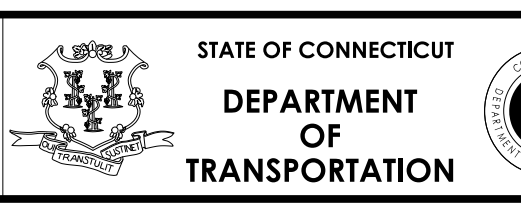
PROPOSED ROADWAY SECTION:
(4) 12' LANES
10' RIGHT SHOULDER
4' LEFT SHOULDER
CROSS SLOPE, 1.56% - 4.2%
PROPOSED STRUCTURE: EXISTING 14-SPAN STEEL GIRDER BRIDGE
PROFILE: MAINTAIN EXISTING
HORIZONTAL ALIGNMENT: MAINTAIN EXISTING

REV.	DATE	REVISION DESCRIPTION

REHABILITATION STUDY REPORT
DESIGNER/DRAFTER: MZ
CHECKED BY: JDL



SIGNATURE/BLOCK:
CHA
400 Central Expressway, Suite 802
Bridgewater, NJ 08807
800.325.8822 www.charter.com



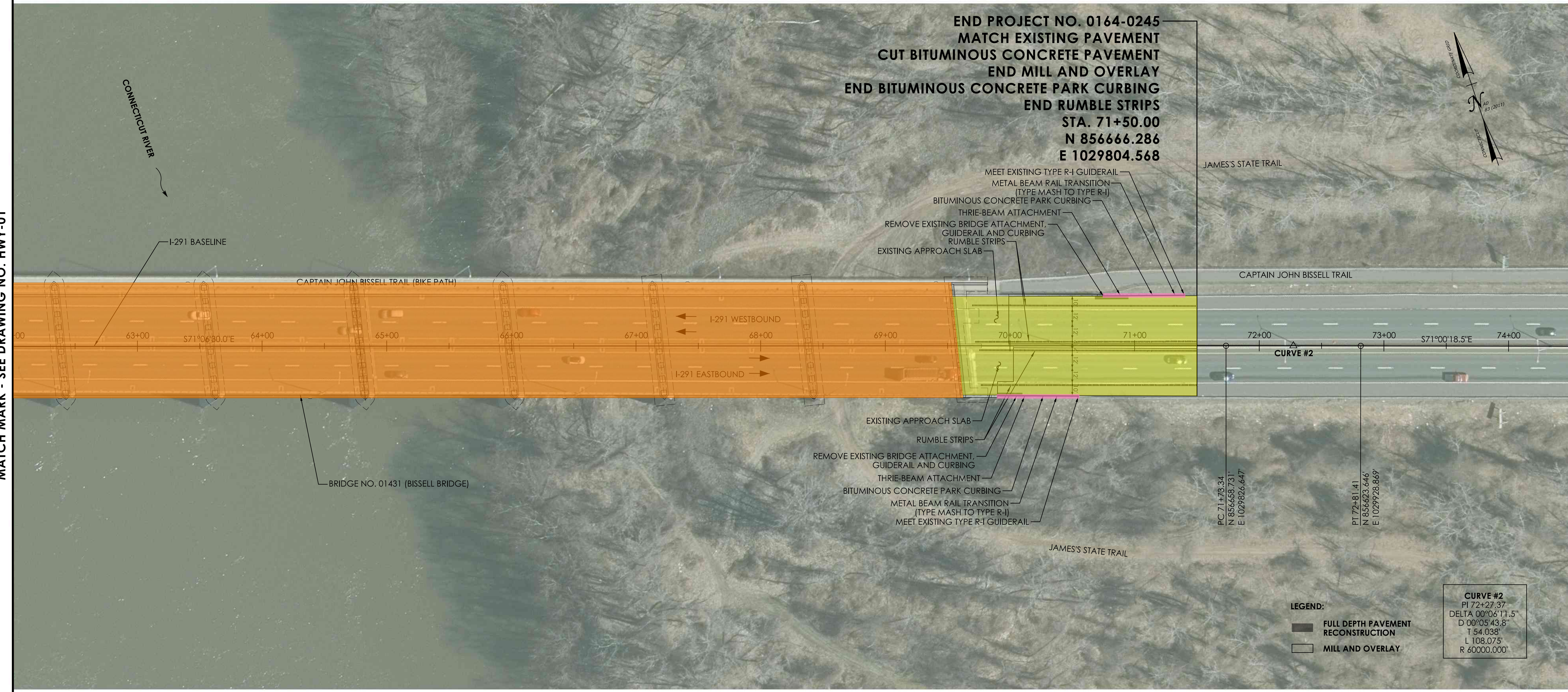
PROJECT NUMBER: 0164-0245
PROJECT DESCRIPTION: REHABILITATION OF BRIDGE NO. 01431 CARRYING I-291 OVER THE CONNECTICUT RIVER
TOWN(S): SOUTH WINDSOR AND WINDSOR
DRAWING TITLE: HIGHWAY PLAN (ALTERNATIVE 2)

DRAWING NO. HWY-01
SHEET NO.

MATCH MARK - SEE DRAWING NO. HWY-02

LEGEND:

- PROPOSED BRIDGE REHABILITATION
- PROPOSED APPROACH ROADWAY WORK
- PROPOSED APPROACH GUIDERAIL



MATCH MARK - SEE DRAWING NO. HWY-01

REV.	DATE	REVISION DESCRIPTION

REHABILITATION STUDY REPORT

DESIGNER/DRAFTER: MZ CHECKED BY: JDL

HORIZONTAL SCALE
1" = 40'

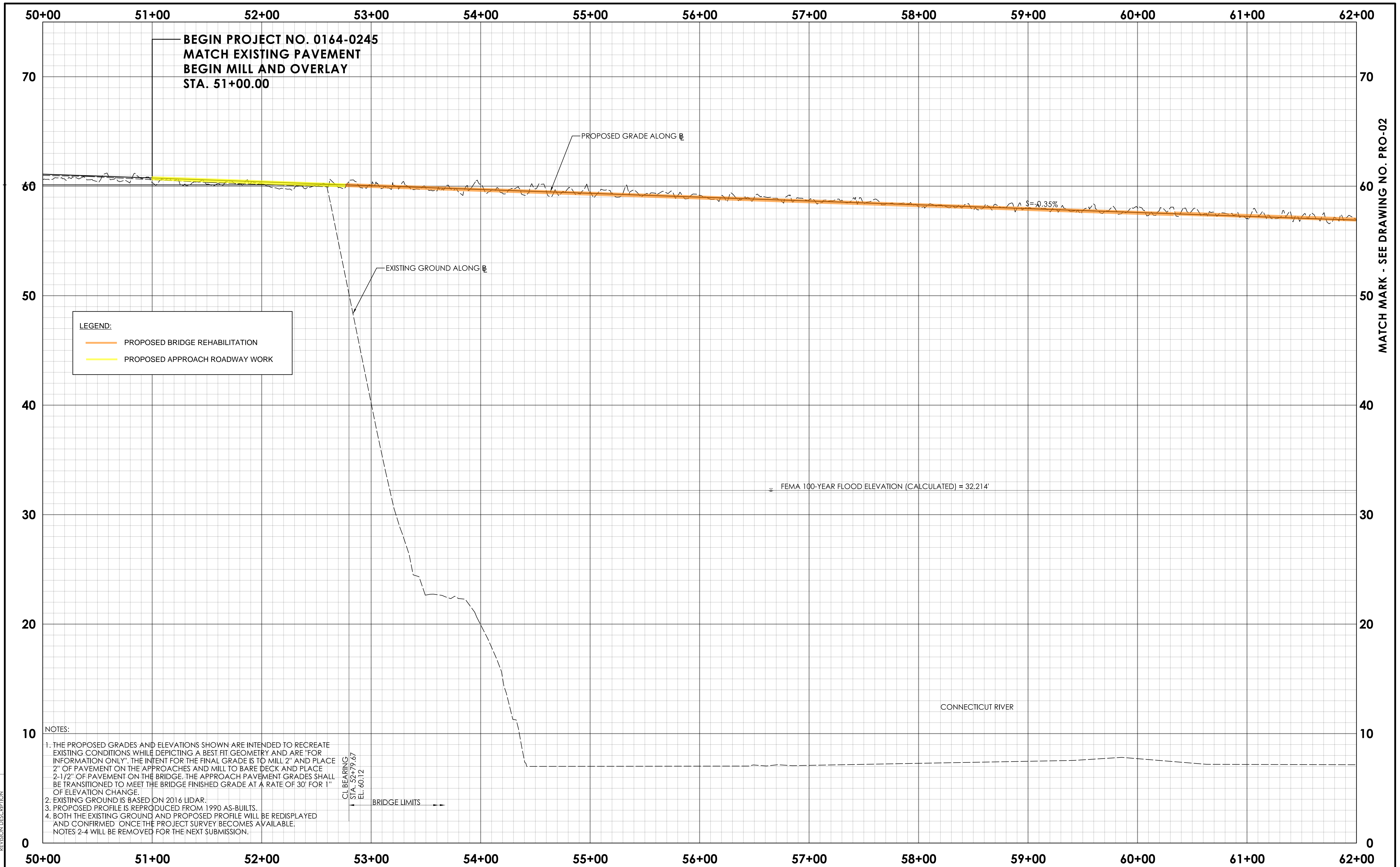
SIGNATURE/BLOCK: **CHA**

401 Capital Boulevard, Suite 301
Bristol Hill, CT 06037
860.252.8522 www.cha-engineers.com

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0164-0245
PROJECT DESCRIPTION: REHABILITATION OF BRIDGE NO. 01431 CARRYING I-291 OVER THE CONNECTICUT RIVER
TOWN(S): SOUTH WINDSOR AND WINDSOR
DRAWING TITLE: HIGHWAY PLAN (ALTERNATIVE 2)

DRAWING NO. HWY-02
SHEET NO.



BEGIN PROJECT NO. 0164-0245
 MATCH EXISTING PAVEMENT
 BEGIN MILL AND OVERLAY
 STA. 51+00.00

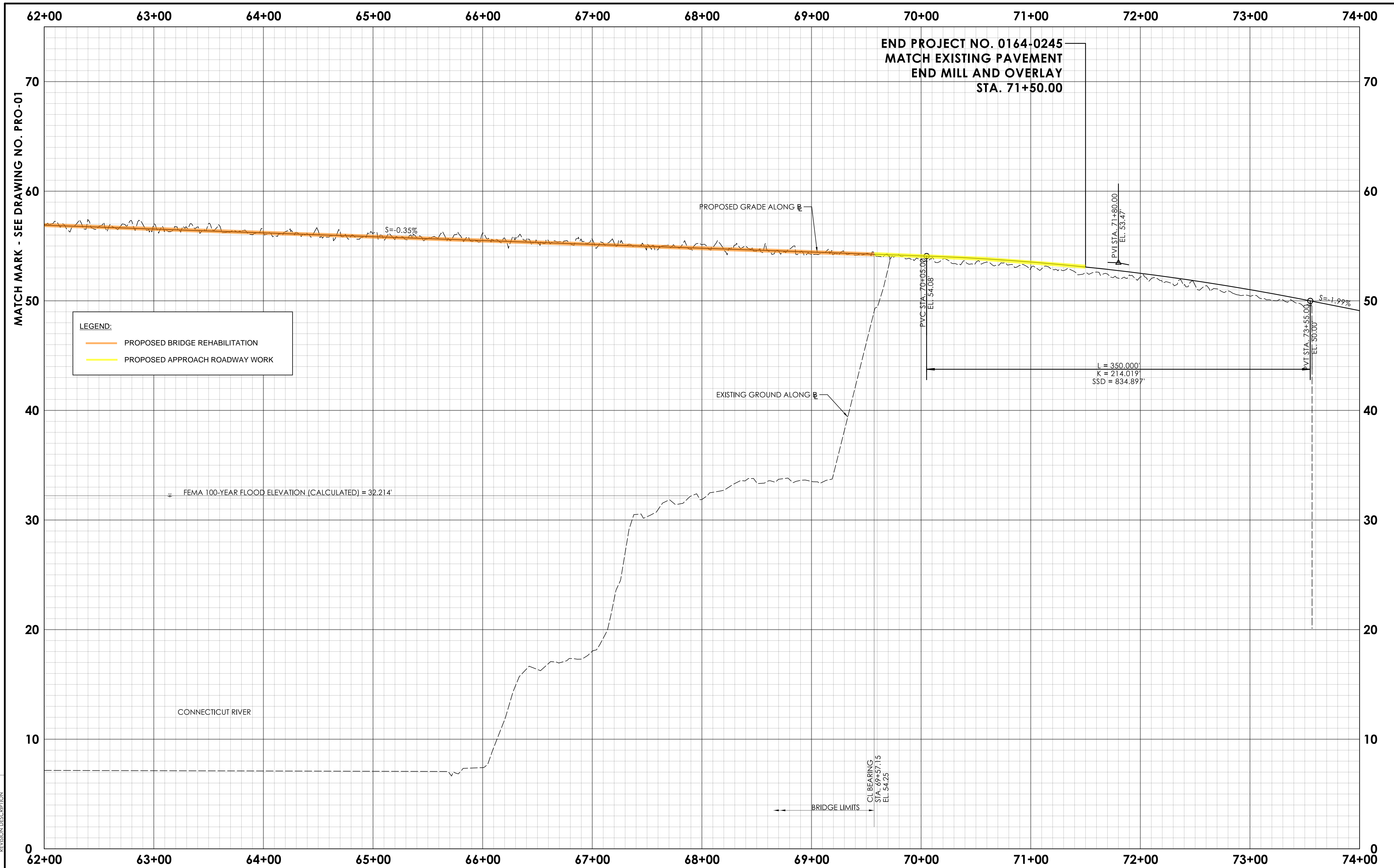
LEGEND:
 — PROPOSED BRIDGE REHABILITATION
 — PROPOSED APPROACH ROADWAY WORK

NOTES:
 1. THE PROPOSED GRADES AND ELEVATIONS SHOWN ARE INTENDED TO RECREATE EXISTING CONDITIONS WHILE DEPICTING A BEST FIT GEOMETRY AND ARE "FOR INFORMATION ONLY". THE INTENT FOR THE FINAL GRADE IS TO MILL 2" AND PLACE 2" OF PAVEMENT ON THE APPROACHES AND MILL TO BARE DECK AND PLACE 2-1/2" OF PAVEMENT ON THE BRIDGE. THE APPROACH PAVEMENT GRADES SHALL BE TRANSITIONED TO MEET THE BRIDGE FINISHED GRADE AT A RATE OF 30' FOR 1" OF ELEVATION CHANGE.
 2. EXISTING GROUND IS BASED ON 2016 LIDAR.
 3. PROPOSED PROFILE IS REPRODUCED FROM 1990 AS-BUILTS.
 4. BOTH THE EXISTING GROUND AND PROPOSED PROFILE WILL BE REDISPLAYED AND CONFIRMED ONCE THE PROJECT SURVEY BECOMES AVAILABLE.
 NOTES 2-4 WILL BE REMOVED FOR THE NEXT SUBMISSION.

CL BEARING
 STA. 52+79.67
 EL. 40.12
 BRIDGE LIMITS

REV.	DATE	REVISION DESCRIPTION

MATCH MARK - SEE DRAWING NO. PRO-02



REV.	DATE	REVISION DESCRIPTION

REHABILITATION STUDY REPORT

DESIGNER/DRAFTER: MZ CHECKED BY: JDL

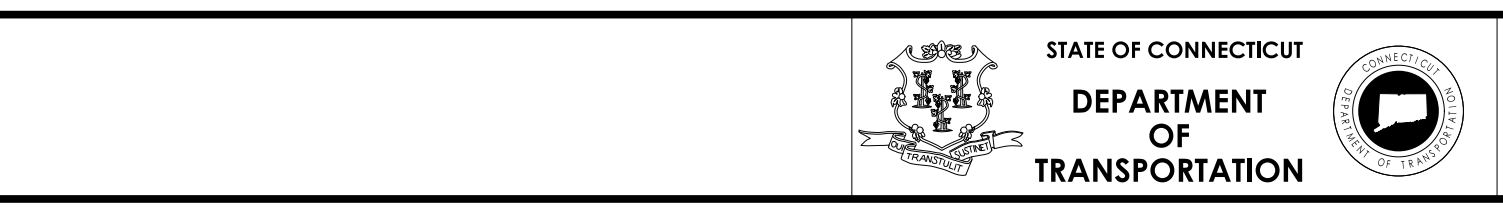
HORIZONTAL SCALE IN FEET: 0, 40, 80

VERTICAL SCALE IN FEET: 0, 4, 8

SIGNATURE/BLOCK:

CHA

400 Capital Boulevard, Suite 302
Bridgewater, CT 06627
860.252.6527 • www.cha-engineering.com



PROJECT NUMBER: 0164-0245

PROJECT DESCRIPTION: REHABILITATION OF BRIDGE NO. 01431 CARRYING I-291 OVER THE CONNECTICUT RIVER

TOWN(S): SOUTH WINDSOR AND WINDSOR

DRAWING TITLE: HIGHWAY PROFILE (ALTERNATIVE 2)

DRAWING NO. PRO-02

SHEET NO.