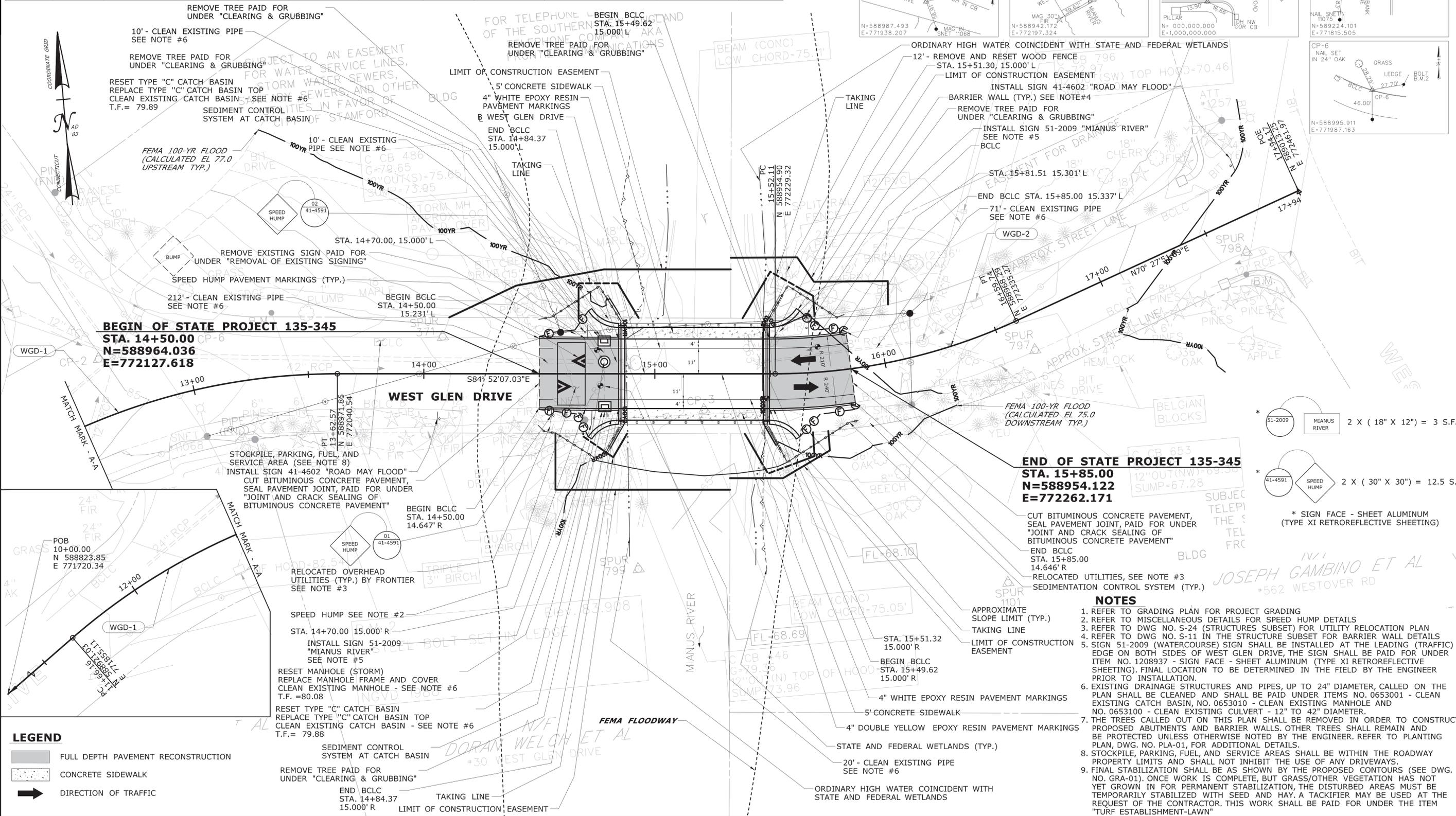
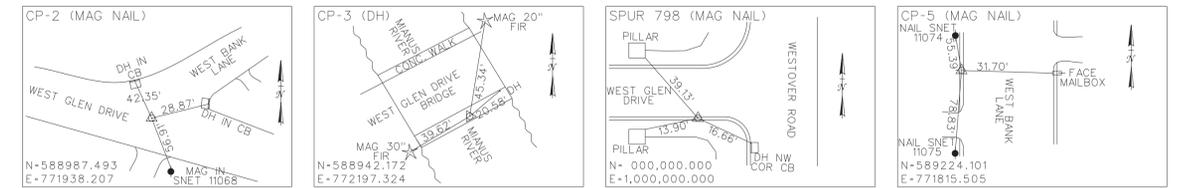


CURVE DATA - WEST GLEN DRIVE

CURVE	PC			PI			PT			DELTA	T	L	R
	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING				
WGD-1	11+66.16	588921.025	771855.113	12+68.76	588981.033	771938.342	13+62.57	588971.856	772040.538	40°55'21.5"	102.607	196.415	275.000
WGD-2	15+52.11	588954.904	772229.316	16+06.77	588950.015	772283.759	16+59.74	588968.293	772335.274	24°40'01.3"	54.662	107.630	250.000



BEGIN OF STATE PROJECT 135-345
STA. 14+50.00
N=588964.036
E=772127.618

END OF STATE PROJECT 135-345
STA. 15+85.00
N=588954.122
E=772262.171

- * 51-2009 MIANUS RIVER 2 X (18" X 12") = 3 S.F.
- * 41-4591 SPEED HUMP 2 X (30" X 30") = 12.5 S.F.
- * SIGN FACE - SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING)

NOTES

- REFER TO GRADING PLAN FOR PROJECT GRADING
- REFER TO MISCELLANEOUS DETAILS FOR SPEED HUMP DETAILS
- REFER TO DWG NO. S-24 (STRUCTURES SUBSET) FOR UTILITY RELOCATION PLAN
- REFER TO DWG NO. S-11 IN THE STRUCTURE SUBSET FOR BARRIER WALL DETAILS
- SIGN 51-2009 (WATERCOURSE) SIGN SHALL BE INSTALLED AT THE LEADING (TRAFFIC) EDGE ON BOTH SIDES OF WEST GLEN DRIVE, THE SIGN SHALL BE PAID FOR UNDER ITEM NO. 1208937 - SIGN FACE - SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING). FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
- EXISTING DRAINAGE STRUCTURES AND PIPES, UP TO 24" DIAMETER, CALLED ON THE PLAN SHALL BE CLEANED AND SHALL BE PAID UNDER ITEMS NO. 0653001 - CLEAN EXISTING CATCH BASIN, NO. 0653010 - CLEAN EXISTING MANHOLE AND NO. 0653100 - CLEAN EXISTING CULVERT - 12" TO 42" DIAMETER.
- THE TREES CALLED OUT ON THIS PLAN SHALL BE REMOVED IN ORDER TO CONSTRUCT PROPOSED ABUTMENTS AND BARRIER WALLS. OTHER TREES SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED BY THE ENGINEER. REFER TO PLANTING PLAN, DWG. NO. PLA-01, FOR ADDITIONAL DETAILS.
- STOCKPILE, PARKING, FUEL, AND SERVICE AREAS SHALL BE WITHIN THE ROADWAY PROPERTY LIMITS AND SHALL NOT INHIBIT THE USE OF ANY DRIVEWAYS.
- FINAL STABILIZATION SHALL BE AS SHOWN BY THE PROPOSED CONTOURS (SEE DWG. NO. GRA-01). ONCE WORK IS COMPLETE, BUT GRASS/OTHER VEGETATION HAS NOT YET GROWN IN FOR PERMANENT STABILIZATION, THE DISTURBED AREAS MUST BE TEMPORARILY STABILIZED WITH SEED AND HAY. A TACKIFIER MAY BE USED AT THE REQUEST OF THE CONTRACTOR. THIS WORK SHALL BE PAID FOR UNDER THE ITEM "TURF ESTABLISHMENT-LAWN"

LEGEND

- FULL DEPTH PAVEMENT RECONSTRUCTION
- CONCRETE SIDEWALK
- DIRECTION OF TRAFFIC

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
L. AL-ATTAR/B. VALENZUELA
 CHECKED BY:
J. KOERNER
 SCALE IN FEET
 0 20 40
 SCALE 1"=20'

CITY OF STAMFORD

SIGNATURE/BLOCK:

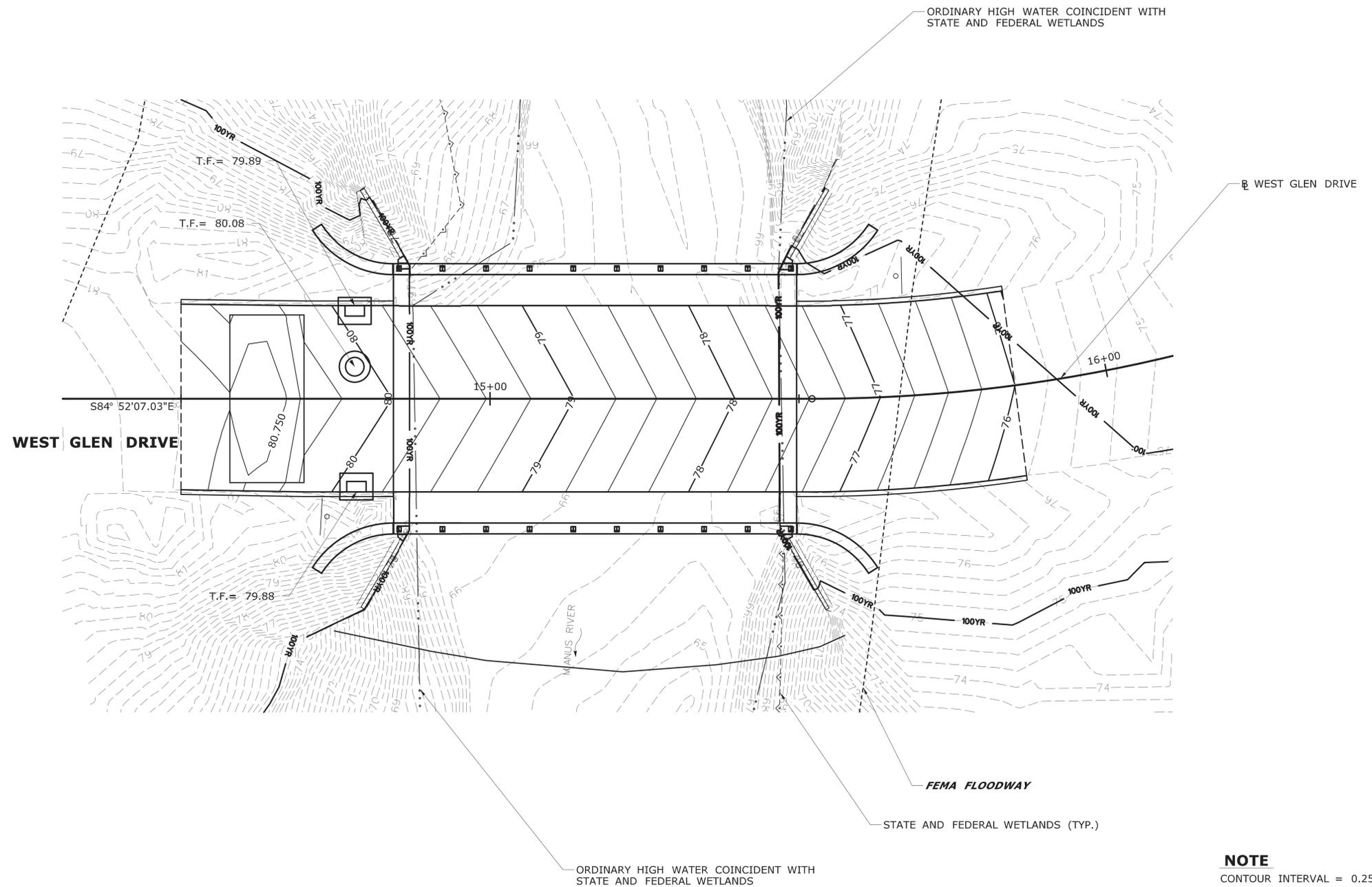
 Alfred Benesch & Company
 120 Hebron Avenue
 2nd Floor
 Glastonbury, CT

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05010 - WEST GLEN DRIVE OVER MIANUS RIVER

CITY: **STAMFORD**
 PROJECT NO.: **135-345**
 DRAWING NO.: **PLN-01**
 SHEET NO.: **03.04**
 DRAWING TITLE: **HIGHWAY PLAN**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/20/2023

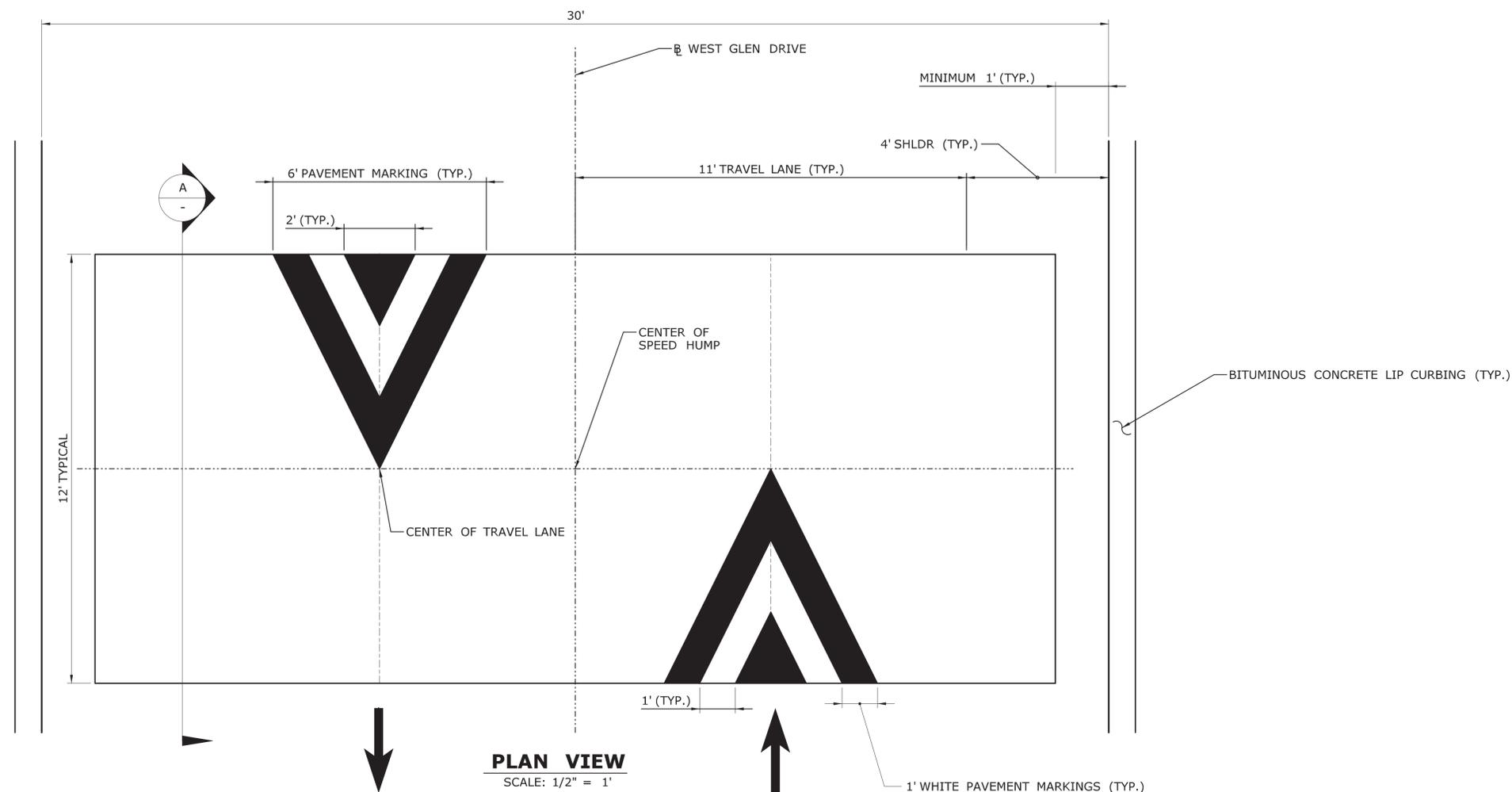
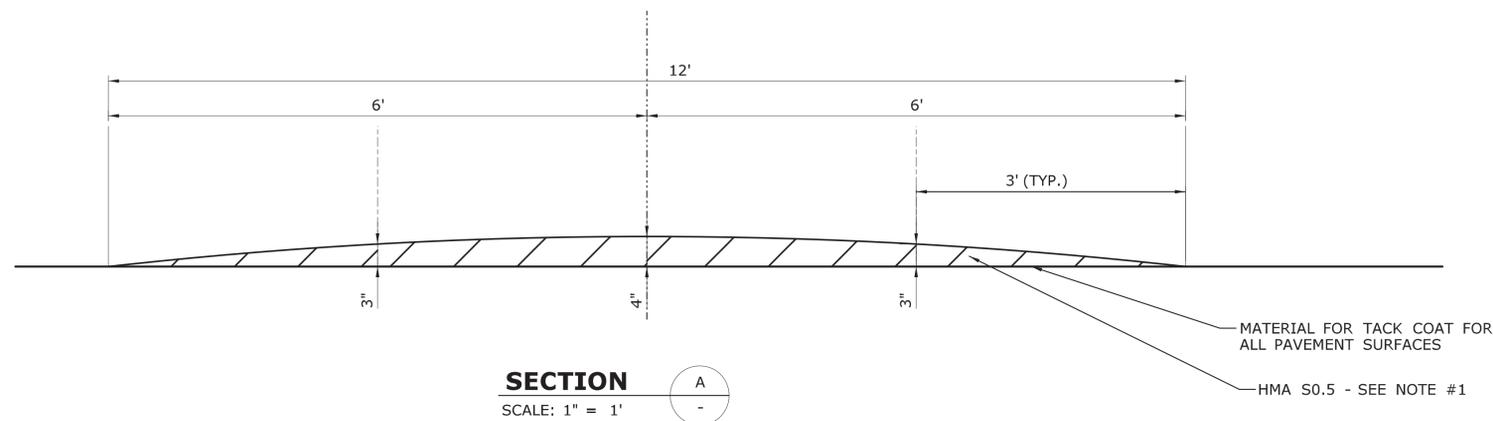
Filename: ...Plan\WV_MSH_135-345_PLN-01.dgn



NOTE
CONTOUR INTERVAL = 0.25'

LEGEND
 —70— PROPOSED CONTOURS
 - -70- - EXISTING CONTOURS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: L. AL-ATTAR CHECKED BY: J. KOERNER SCALE IN FEET SCALE 1"=10' Filename: ...Plan\HW_MSH_135-345_GRA-01.dgn	CITY OF STAMFORD Alfred Benesch & Company 120 Hebron Avenue 2nd Floor Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05010 - WEST GLEN DRIVE OVER MIANUS RIVER	CITY: STAMFORD DRAWING TITLE: GRADING PLAN	PROJECT NO. 135-345 DRAWING NO. GRA-01 SHEET NO. 03.06
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/12/2023		

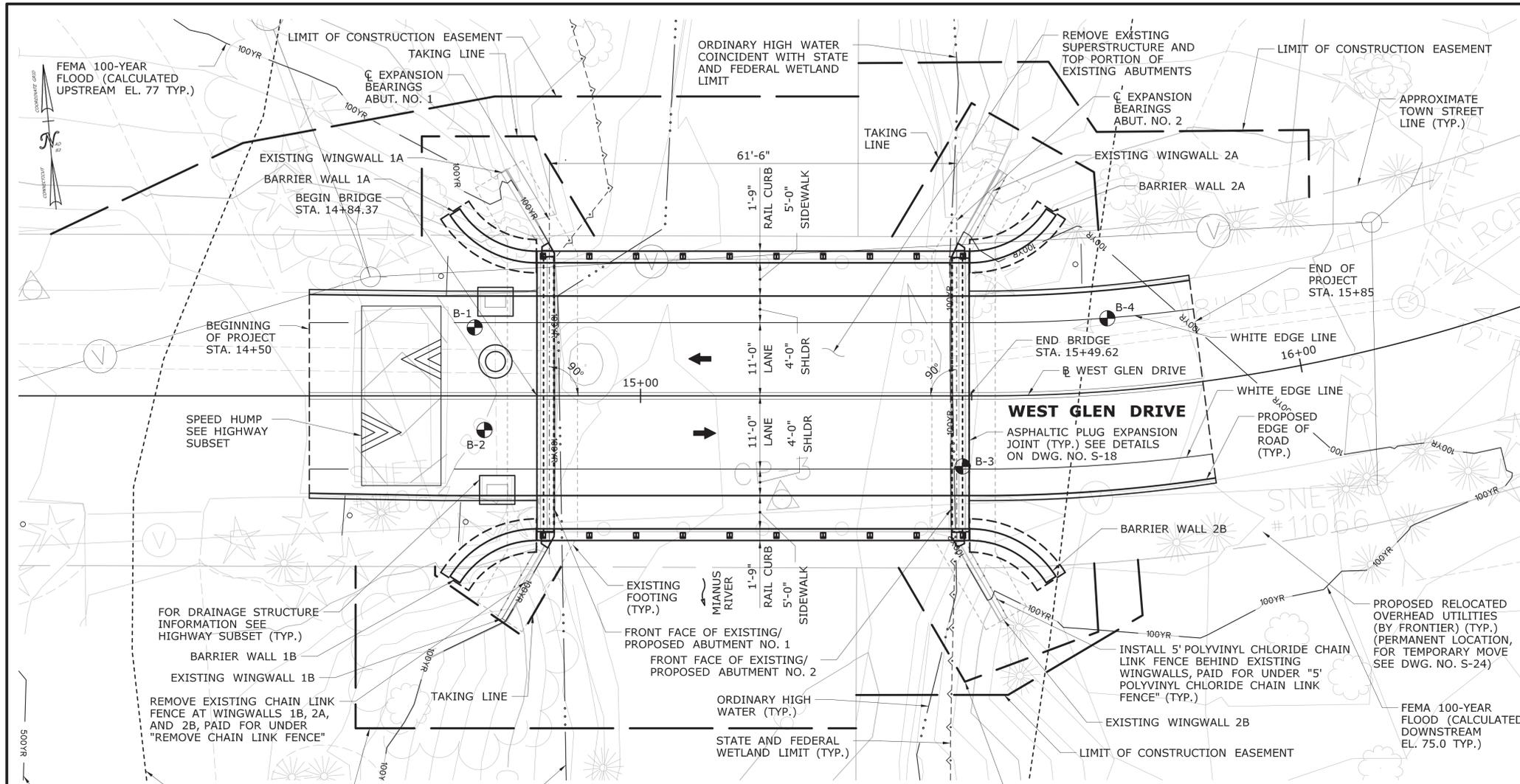


NOTES

1. HMA S0.5 USED FOR SPEED HUMP SHALL BE PAID UNDER ITEM NO. 0406171 - "HMA S0.5".

SPEED HUMP DETAILS

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: B.VALENZUELA CHECKED BY: J.KOERNER SCALE AS NOTED	CITY OF STAMFORD Filename: ...Plan\HW_MSH_135_345_MDS-01.dgn	SIGNATURE/ BLOCK:  Alfred Benesch & Company 120 Hebron Avenue 2nd Floor Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05010 - WEST GLEN DRIVE OVER MIANUS RIVER	CITY: STAMFORD DRAWING TITLE: MISC. DETAILS SHEET	PROJECT NO. 135-345 DRAWING NO. MDS-01 SHEET NO. 03.11
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/12/2023			



GENERAL PLAN

NOTE: THE FEMA 100-YR STORM LINE TO THE EAST IS OUTSIDE OF THE AREA SHOWN
 : INDICATES LOCATION OF BORING

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2023 AND SPECIAL PROVISIONS.
 DESIGN SPECIFICATIONS: ALL NEW ELEMENTS TO BE DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2020, 9TH EDITION, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

MATERIAL STRENGTHS:
 CONCRETE:
 CLASS PCC 03340 f_c = 3,000 PSI
 CLASS PCC 04462 f_c = 4,000 PSI
 CLASS PCC 04481 f_c = 4,000 PSI

THE CONCRETE STRENGTH f_c, USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.

REINFORCEMENT:
 (ASTM A615 GRADE 60) F_y = 60,000 PSI (GALVANIZED SEE DWG. NO. S-03 FOR DETAILS)

STRUCTURAL STEEL:
 (AASHTO M270, GRADE 50) F_y = 50,000 psi

LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES

FUTURE PAVING ALLOWANCE: NONE

STRUCTURAL STEEL: SEE STRUCTURAL STEEL NOTES ON DWG. NO. S-14 FOR DESIGNATIONS AND REQUIREMENTS.

BITUMINOUS CONCRETE OVERLAY: THE 3" LAYER OF HMA SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE HMA S 0.25 (1 INCH THICK). THE SECOND SHALL BE HMA S 0.5 (2 INCHES THICK). MIXES SHALL BE TRAFFIC LEVEL 2.

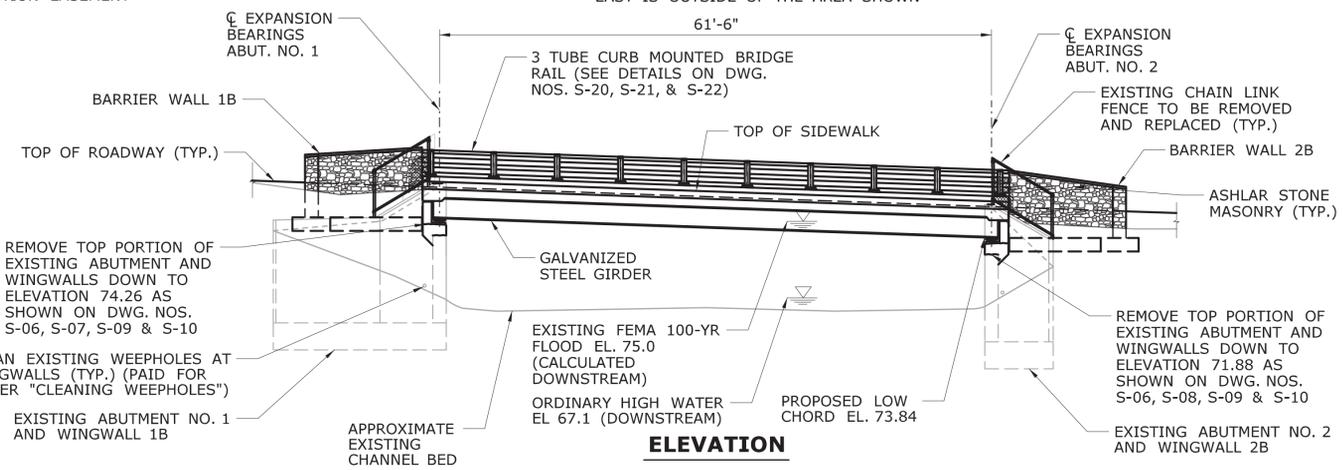
DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT EACH LEADING END BARRIER WALL ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" BY 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ: 05010, THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THE BRIDGE SIGNS SHALL BE PAID UNDER ITEM "SIGN FACE SHEET ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING)".

UTILITIES: THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN WORKING NEAR UTILITIES SO AS NOT TO DISTURB THEM OR PLACE ANY LOAD OR EQUIPMENT ON THEM. ALL UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY WORK AFFECTING CABLES, CONDUITS, OR OTHER UTILITIES. SEE "NOTICE TO CONTRACTOR - UTILITY WORK SCHEDULE" AND DWG. NO. S-24 FOR UTILITIES AFFECTED BY THE PROJECT.

MASH TEST LEVEL: THE 3-TUBE CURB MOUNTED BRIDGE RAIL MEETS TL-3 CRITERIA FOR MASH 2016



ELEVATION

NOTICE TO BRIDGE INSPECTORS

THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.

COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
N/A	N/A

CONCRETE DISTRIBUTION

	C.Y.	
SUPERSTRUCTURE	114	
SUBSTRUCTURE	50	
FOOTINGS	12	
TOTAL	186	

HYDRAULIC SUMMARY TABLE

DRAINAGE AREA [SQ. MI.]	29.1
DESIGN FREQUENCY [YEAR]	100
DESIGN DISCHARGE [CFS]	4020
AVERAGE DAILY FLOW ELEVATION [FT]	66.6 (ESTIMATED)
DESIGN WATER SURFACE EL. - UPSTREAM [FT]	75.4
DESIGN WATER SURFACE EL. - DOWNSTREAM [FT]	75.0
MAXIMUM SCOUR ELEVATION [FT]	64.9
FREQUENCY [YEAR]	500
DISCHARGE [CFS]	5230
WORST CASE SCOUR SUBSTRUCTURE UNIT	ABUTMENTS

ESTIMATED TRANSPORTATION DIMENSIONS AND WEIGHT

MEMBER	LENGTH (FT)	HEIGHT (FT)	WIDTH (FT)	WEIGHT (LBS)
GALVANIZED STEEL GIRDER	63'-0"	2'-4"	1'-3"	10,600

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: M. HABEK
 CHECKED BY: R. MEARS
 SCALE: 1" = 10'
CITY OF STAMFORD
 Plotted Date: 4/20/2023
 Filename: ...\\SB_MSH_GPN_0135-0345.dgn

SIGNATURE/BLOCK:

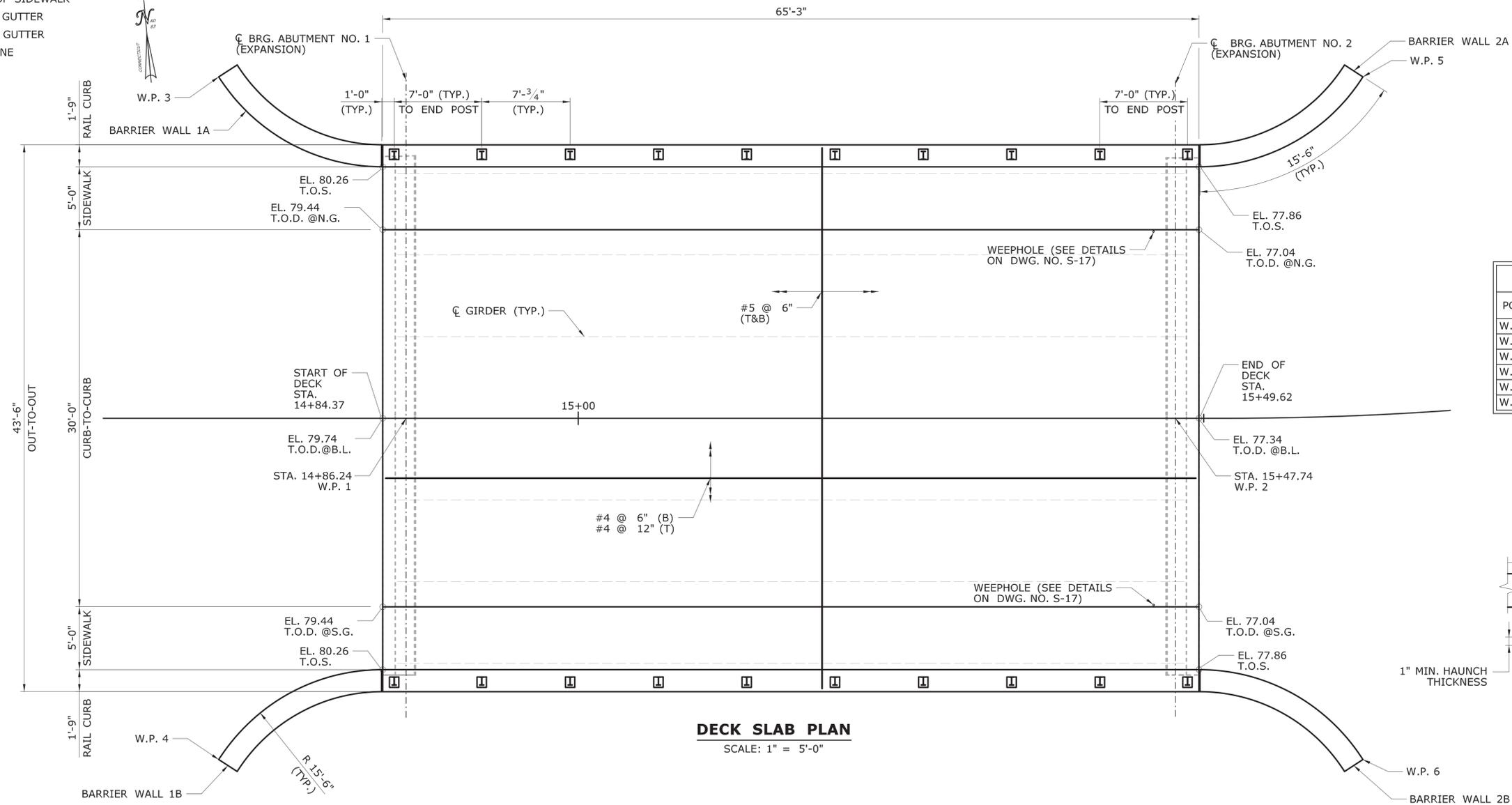
 Alfred Banesch & Company
 120 Hebron Avenue
 2nd Floor
 Glastonbury, CT

PROJECT TITLE:
REHABILITATION OF BRIDGE NO. 05010 - WEST GLEN DRIVE OVER MIANUS RIVER

CITY: **STAMFORD**
 DRAWING TITLE: **GENERAL PLAN AND ELEVATION**
 PROJECT NO. **135-345**
 DRAWING NO. **S-02**
 SHEET NO. **04.02**

DECK PLAN NOTES

T.O.D. = TOP OF DECK
 T.O.S. = TOP OF SIDEWALK
 S.G. = SOUTH GUTTER
 N.G. = NORTH GUTTER
 B.L. = BASE LINE



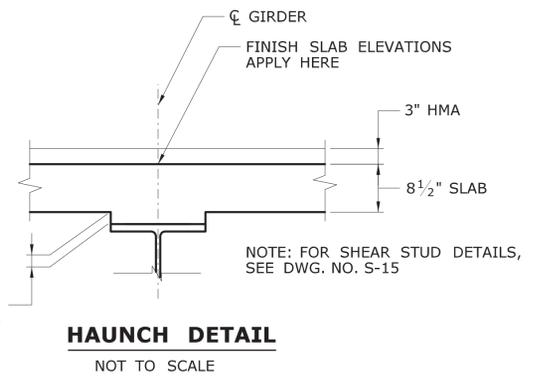
DECK SLAB PLAN
 SCALE: 1" = 5'-0"

TOP OF DECK ELEVATIONS

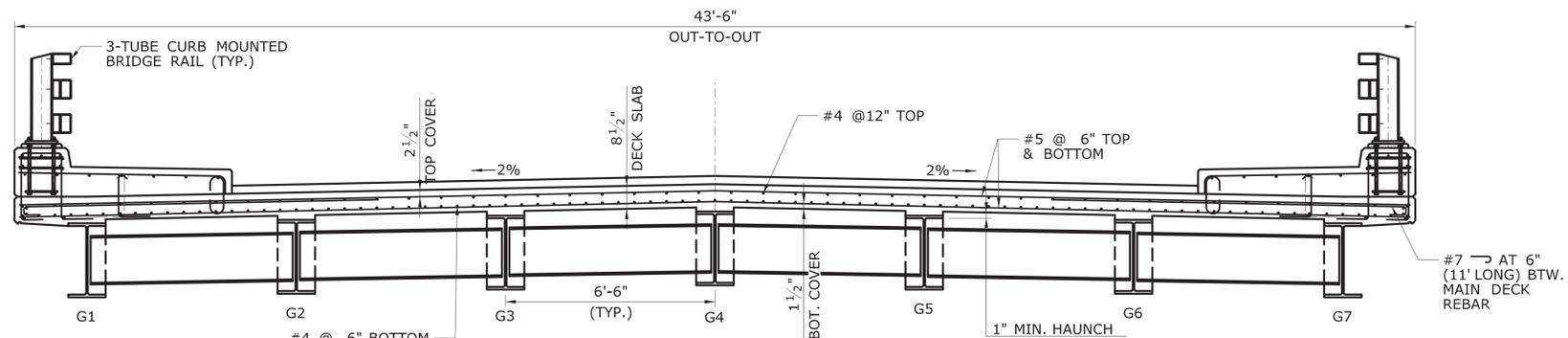
BEAM NO.	CL BRG ABUT. 1	1/4L	1/2L	3/4L	1/2R	1/4R	CL BRG ABUT. 2
1	79.29	78.96	78.60	78.24	77.85	77.45	77.02
2	79.42	79.09	78.74	78.37	77.98	77.58	77.16
3	79.55	79.22	78.87	78.50	78.11	77.71	77.29
4	79.68	79.35	79.00	78.63	78.24	77.84	77.42
5	79.55	79.22	78.87	78.50	78.11	77.71	77.29
6	79.42	79.09	78.74	78.37	77.98	77.58	77.16
7	79.29	78.96	78.60	78.24	77.85	77.45	77.02

WORKING POINTS COORDINATES

POINT	NORTHING	EASTING	LOCATION
W.P. 1	588960.79	772163.72	CL BRG. ABUT. NO. 1 & R
W.P. 2	588955.29	772224.97	CL BRG. ABUT. NO. 2 & R
W.P. 3	588989.18	772151.22	END OF BW 1A INSIDE FACE
W.P. 4	588935.09	772146.36	END OF BW 1B INSIDE FACE
W.P. 5	588981.00	772242.32	END OF BW 2A INSIDE FACE
W.P. 6	588926.91	772237.46	END OF BW 2B INSIDE FACE

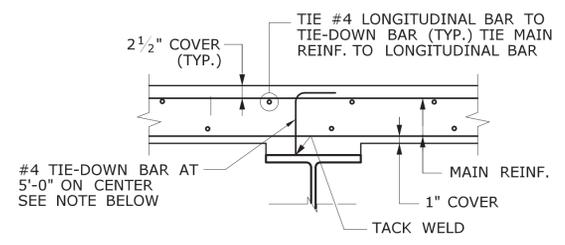


HAUNCH DETAIL
 NOT TO SCALE



PROPOSED DECK SECTION

SCALE: 3/8" = 1'-0"
 NOTE: REFER TO DWG. NO. S-17 FOR SIDEWALK AND DWG. NO. S-22 FOR RAIL CURB REINFORCEMENT.



TIE-DOWN FOR SLAB REINFORCEMENT

NOTE: TIE-DOWN BARS DO NOT EXCLUDE THE USE OF CHAIRS FOR SUPPORTING THE REINFORCEMENT MAT. THE COST OF FURNISHING AND PLACING TIE-DOWN BARS TO BE INCLUDED IN THE CONTRACT ITEM "DEFORMED STEEL BARS-GALVANIZED". TIE-DOWN BARS AND LONGITUDINAL BARS SHALL CLEAR SHEAR CONNECTORS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: C. SORENSEN	CITY OF STAMFORD	SIGNATURE/BLOCK: Alfred Bonesch & Company 120 Hebron Avenue 2nd Floor Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 05010 - WEST GLEN DRIVE OVER MIANUS RIVER	CITY: STAMFORD	PROJECT NO. 135-345
	CHECKED BY: R. MEARS					
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 4/11/2023	SCALE AS NOTED	Filename: ...\\SB_MSHL\B05010_0135_0345_DECK PLAN.dgn	SHEET NO. S-16	SHEET NO. 04.16	SHEET NO.