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EXISTING AND PROPOSED CROSS SECTIONS

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STEEL DETAILS

ENCASEMENT DETAILS

BRIDGE RAILING DETAILS

DESCRIPTION

#4 BARS #5 BARS #6 BARS

22"

29"

27"

21"

27"

31"

32"

16"

MAGNETIC NAIL SET 2

MAGNETIC NAIL SET 3

3052959.953

3052943.340

295028.522

538.810

294924.521

538.861

LOCUS SCALE: 1'' = 2000'

STRUCTURAL STEEL ALL STRUCTURAL STEEL MEMBERS SHALL BE AASHTO M270 GRADE 50, PAINTED FEDERAL STANDARD 595 B COLOR CHIP NUMBER 14062 - DARK GREEN. ALL BOLTS SHALL BE ASTM F3125 GRADE A325 TYPE I MECHANICALLY GALVANIZED IN ACCORDANCE WITH AASHTO M298 (ASTM B695) CLASS 50. UNLESS OTHERWISE NOTED, NUTS AND WASHERS SHALL BE LISTED AS SUITABLE IN THE ASTM F3125 SPECIFICATION FOR GRADE A325. NUTS SHALL BE MECHANICALLY GALVANIZED BY THE SAME PROCESS AND SHALL BE LUBRICATED WITH LUBRICANT CONTAINING VISIBLE DYE.

ESTIMATED QUANTITIES NOT GUARANTEED

	NOT GUARANTEED		
<u>NO.</u>	<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>
114.11	PARTIAL DEMOLITION OF SUPERSTRUCTURE	LS	1
120.	EARTH EXCAVATION	CY	90
127.12	REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION	CY	5
151.	GRAVEL BORROW	CY	70
170.	FINE GRADING AND COMPACTING	SY	120
452.	ASPHALT EMULSION FOR TACK COAT	GAL	13
460.22	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	TON	16
460.31	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5)	TON	22
509.	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS — STRAIGHT	FT	26
620.131	GUARDRAIL, DEEP POST (SINGLE FACED)	FT	50
620.32	GUARDRAIL — CURVED, TL—2 (SINGLE FACED)	FT	15
627.01	ROUNDED END UNIT	EA	1
627.1	TRAILING ANCHORAGE	EA	3
628.25	TRANSITION TO THRIE BEAM	EA	4
657.	TEMPORARY FENCE	FT	300
751.7	COMPOST BLANKET	CY	2
765.	SEEDING	SY	50
767.121	SEDIMENT CONTROL BARRIER	FT	210
769.	PAVEMENT MILLING MULCH UNDER GUARD RAIL	FT	160
852.	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	SF	259.5
853.1	PORTABLE BREAKAWAY BARRICADE TYPE III	EA	9
853.2	TEMPORARY BARRIER (TL-2)	FT	60
856.12	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	30
859.	REFLECTORIZED DRUM	DAY	1080
905.01	5000 PSI, 3/8 IN., 710 HP CEMENT CONCRETE FOR REPAIRS	CY	6
909.2	CEMENTITIOUS MORTAR FOR PATCHING	SF	15
910.1	STEEL REINFORCEMENT FOR REPAIRS - EPOXY COATED	LB	100
912.5	DRILLED AND GROUTED #5 DOWELS	EA	90
992.1	ALTERATION TO BRIDGE STRUCTURE	LS	1

COMMONWEALTH OF MASSACHUSETTS MassDOT, Highway Division APPROVED UNDER PROVISIONS OF MASS. GEN. LAWS CH 85 S 35 STATE BRIDGE ENGINEER 4/28/2025

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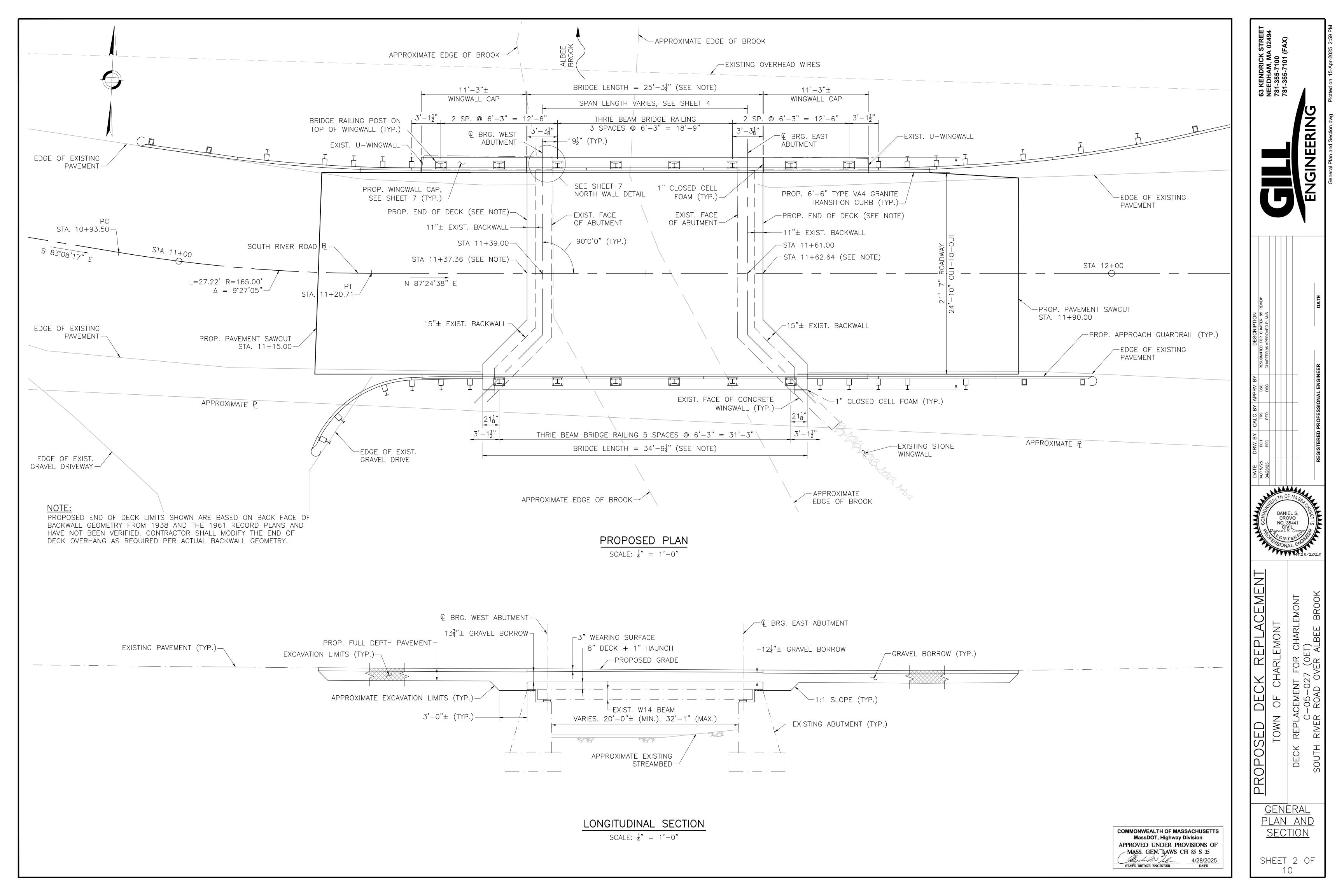
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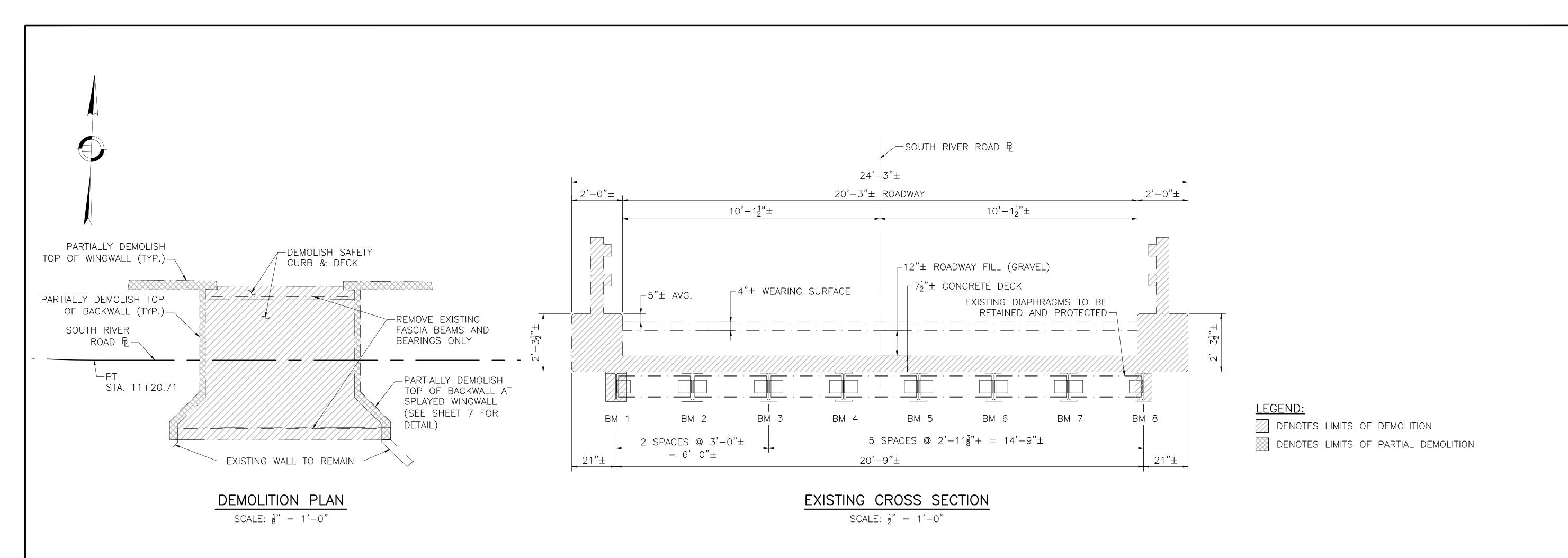
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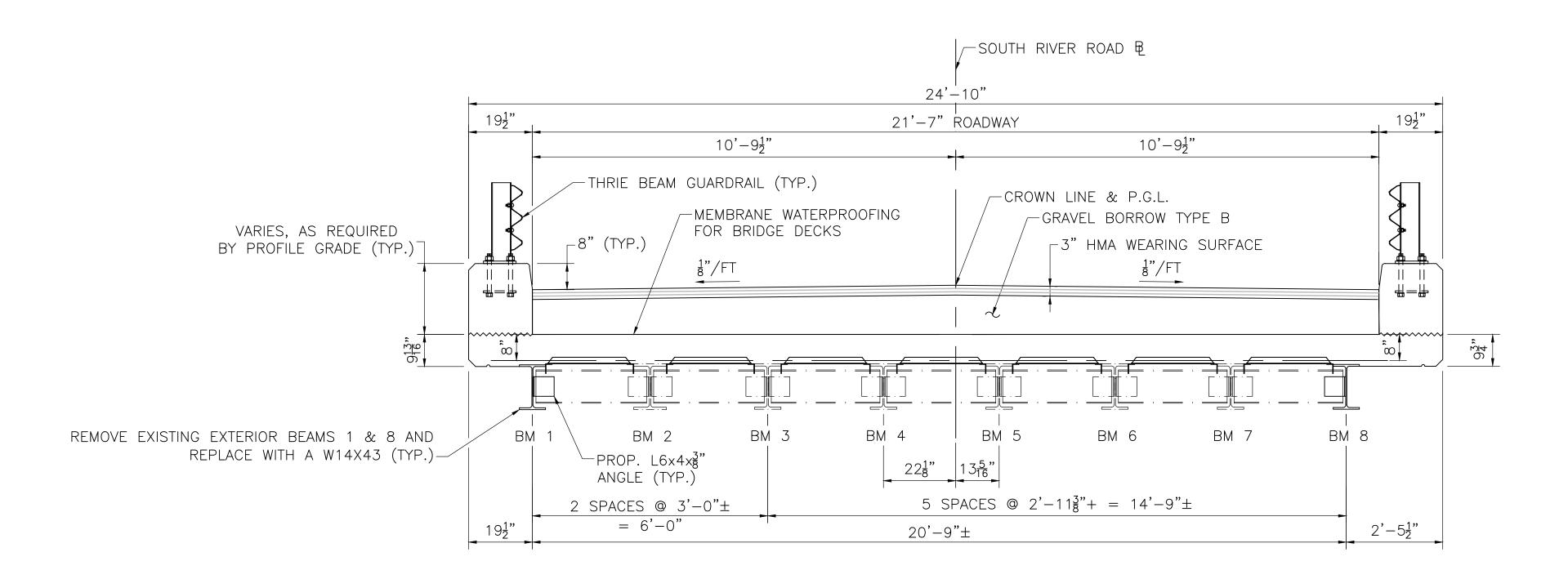
KEY PLAN LOCUS,

PROFILE & <u>NOTES</u>

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DEMOLITION NOTES:

- 1. ALL DEMOLITION WORK SHALL BE DONE IN A SINGLE PHASE.
- 2. FOR ADDITIONAL DEMOLITION REQUIREMENTS SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- 3. PROTECT EXISTING DIAPHRAGMS WHERE POSSIBLE.
- 4. DEMOLISH ANY MATERIAL INCIDENTAL TO THE PROPOSED CONSTRUCTION AS DIRECTED BY THE RESIDENT ENGINEER.
- 5. ALL DEMOLITION WORK SHALL BE DONE IN CONFORMANCE WITH ALL APPLICABLE FEDERAL STATE AND LOCAL LAWS, REGULATIONS AND PERMITS AND THE JOB SPECIFCATIONS.
- 6. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED DEMOLITION PROCEDURE TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.

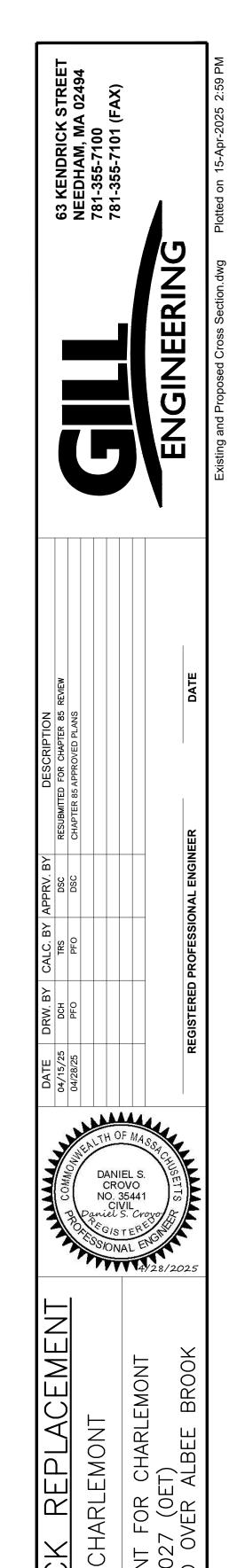
PROPOSED CROSS SECTION

SCALE: $\frac{1}{2}$ " = 1'-0"

<u>NOTE:</u> SECTIONS TAKEN LOOKING WEST.

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35

Mass Law Law 4/28/2025
STATE BRIDGE ENGINEER DATE



OF

TOWN

DECK

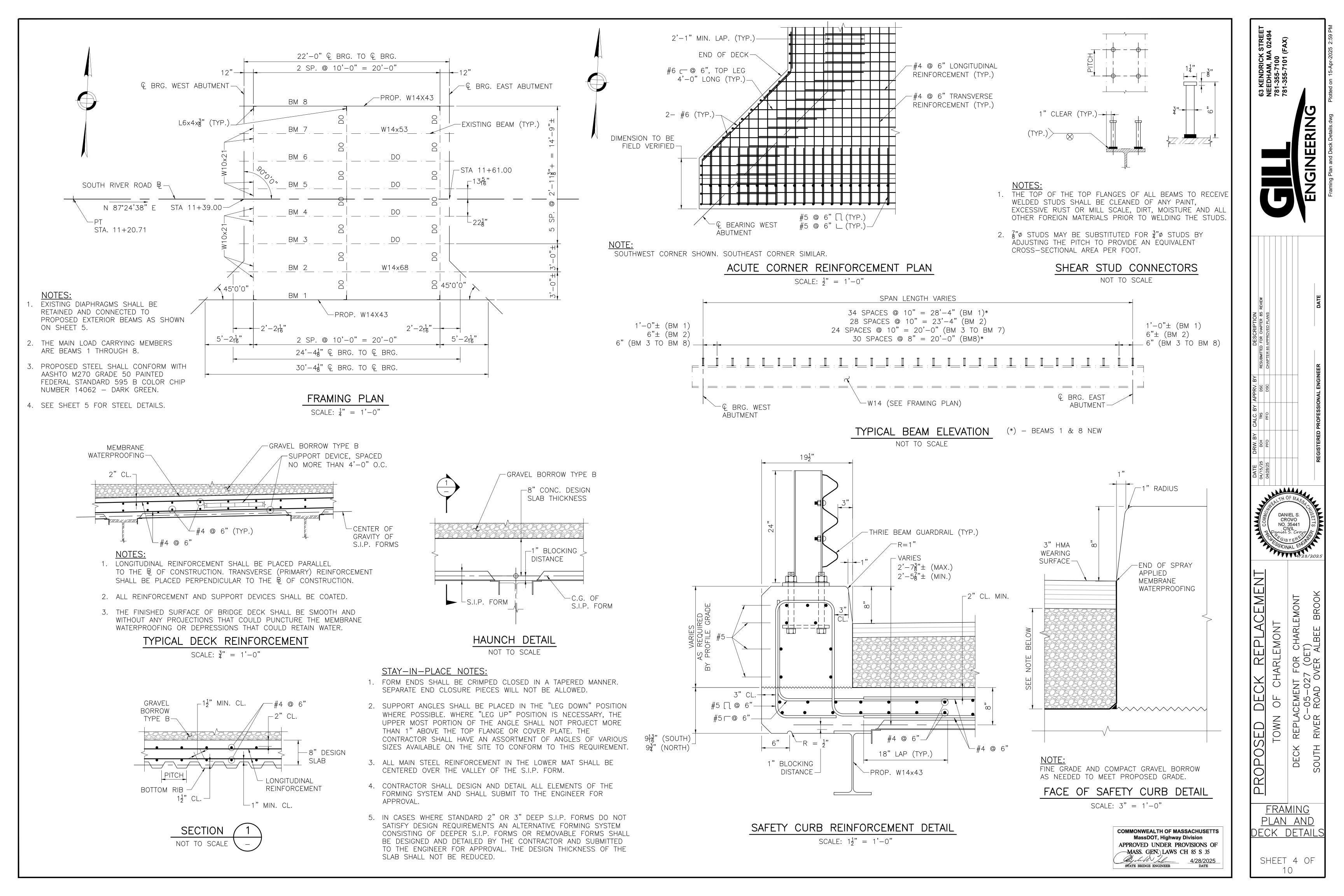
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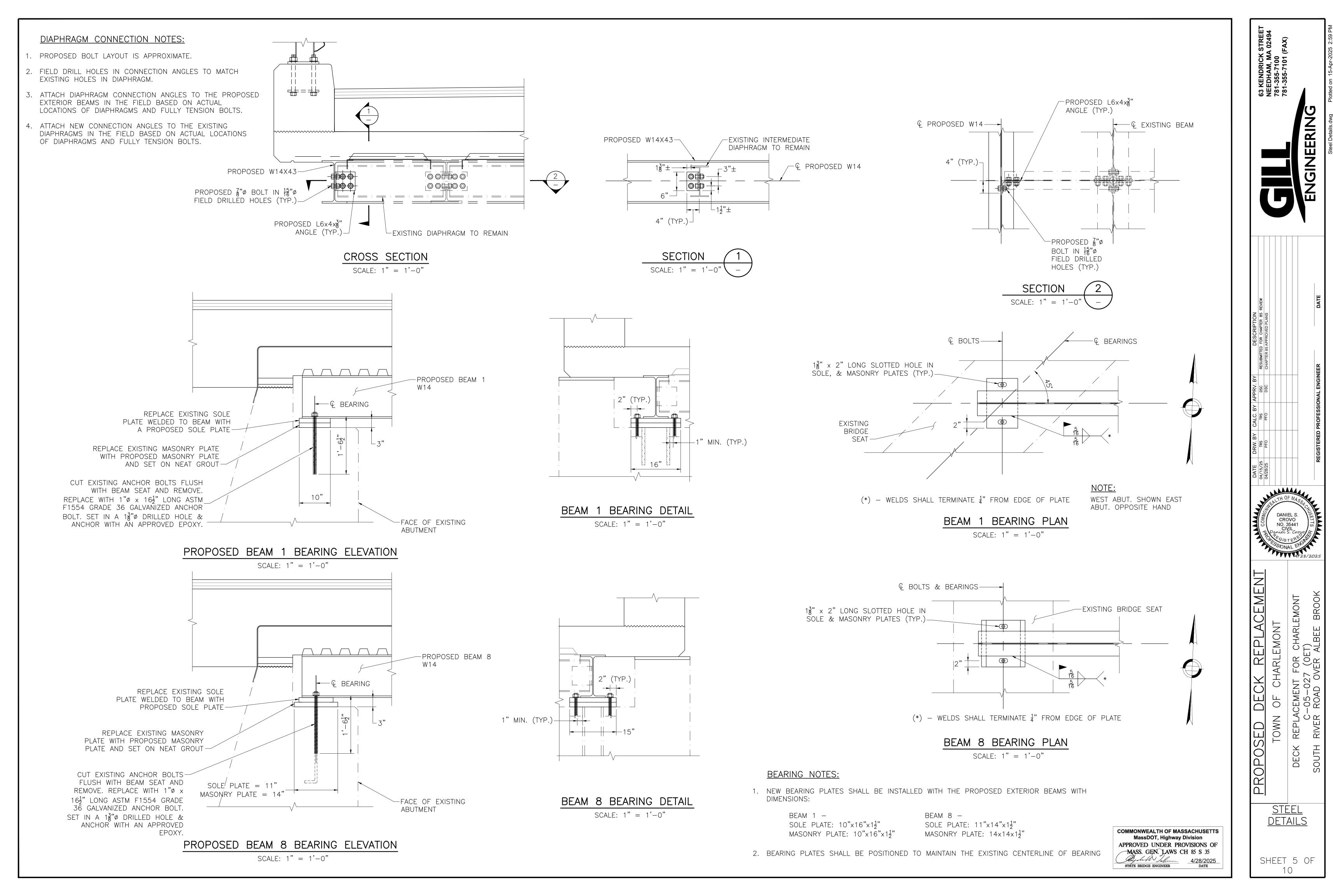
<u>PROPOSED</u>

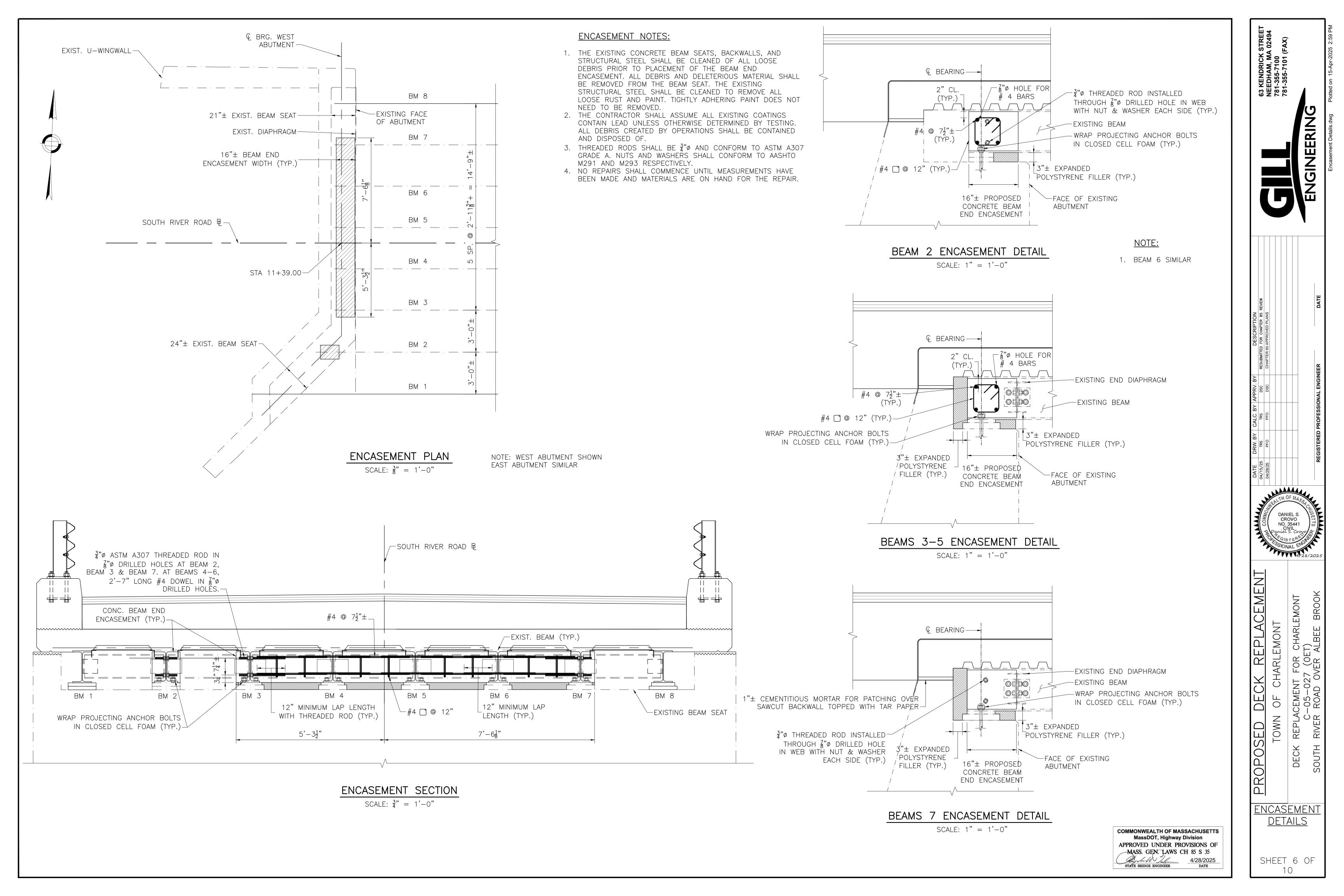
<u>CROSS</u>

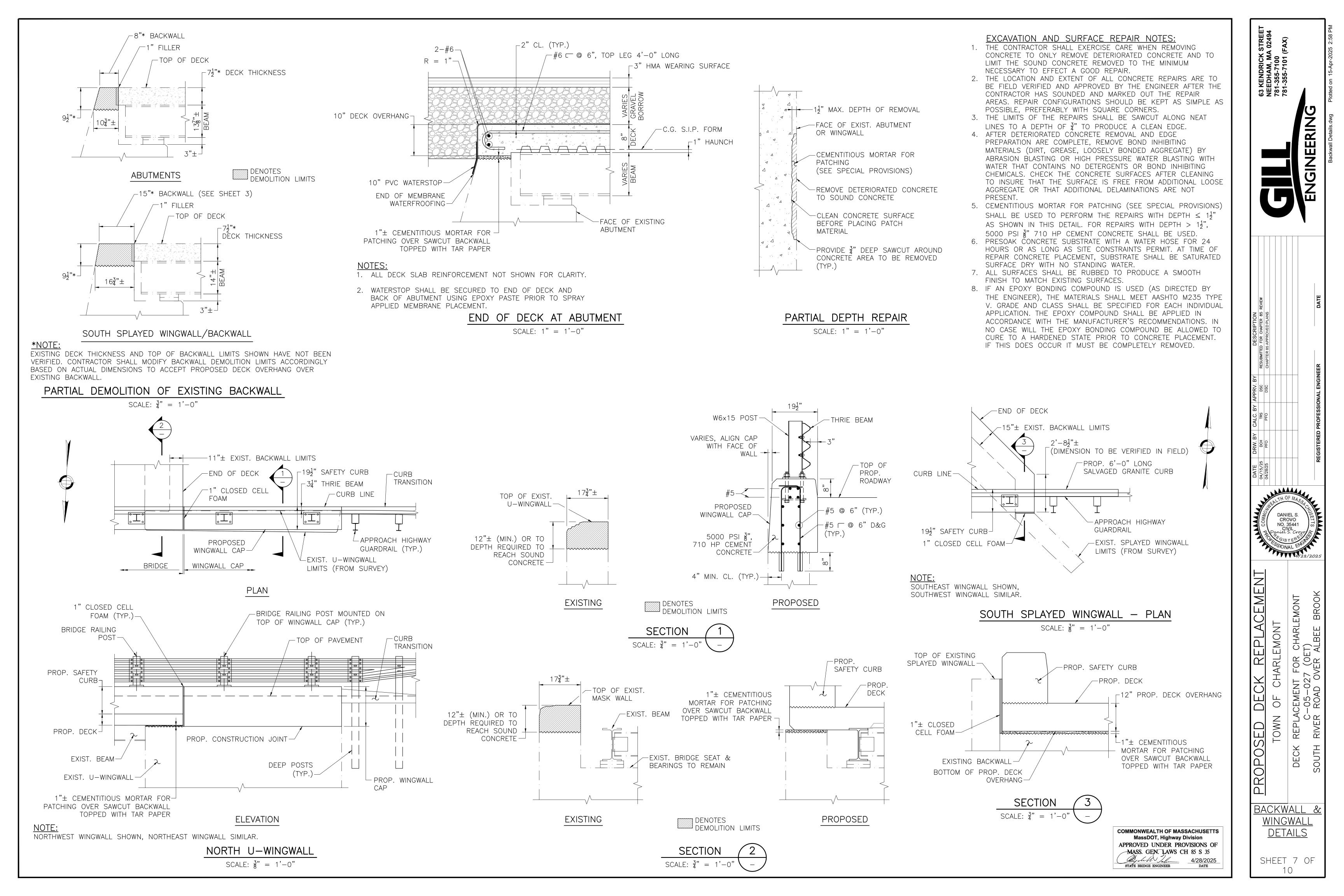
SECTIONS

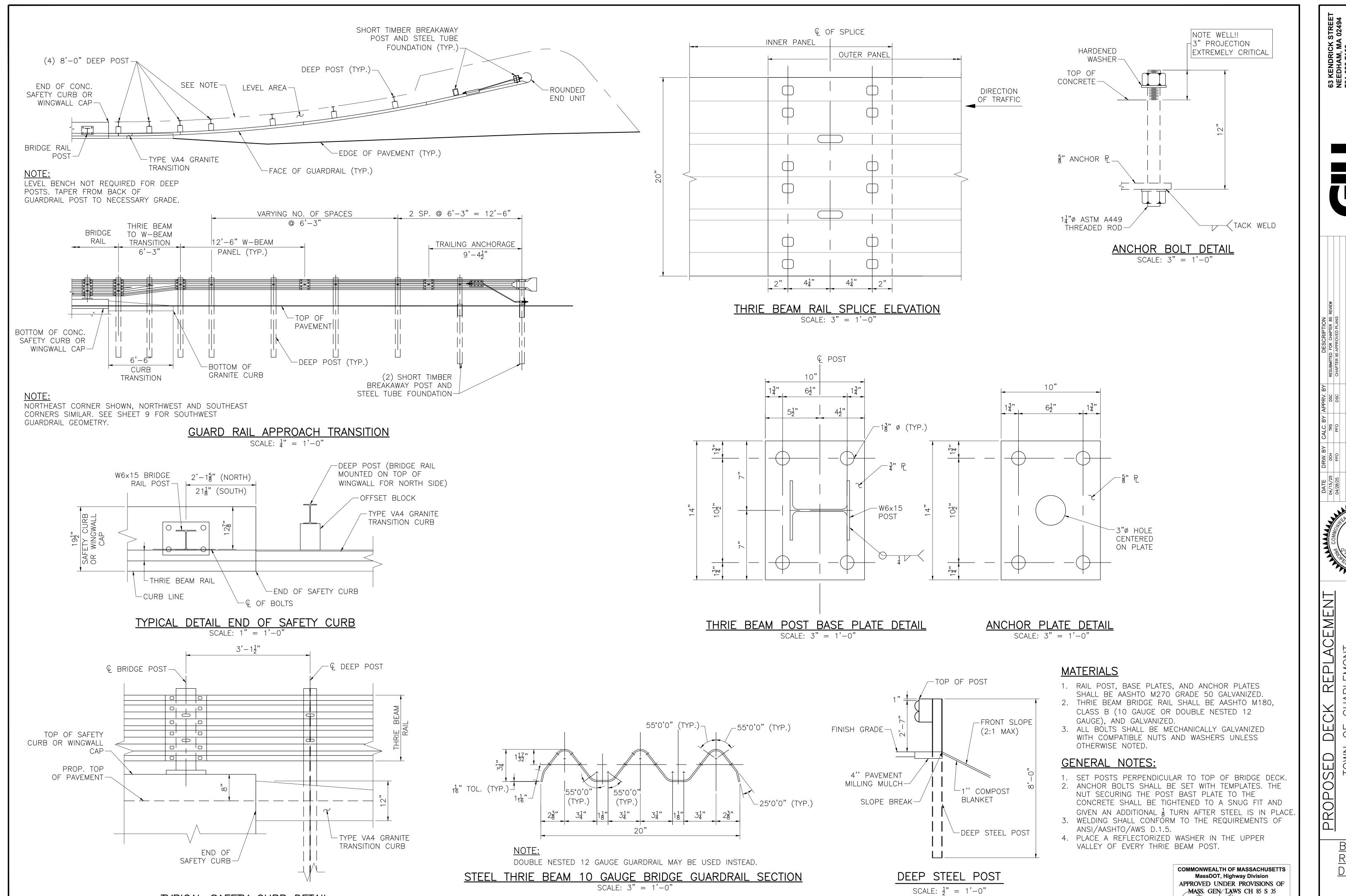
SHEET 3 OF 10











TYPICAL SAFETY CURB DETAIL

SCALE: 1" = 1'-0"

63 KENDRICK STREET NEEDHAM, MA 02494 781-355-7100 781-355-7101 (FAX) ENGINEERING

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CHARLEMONT CHARLEMONT

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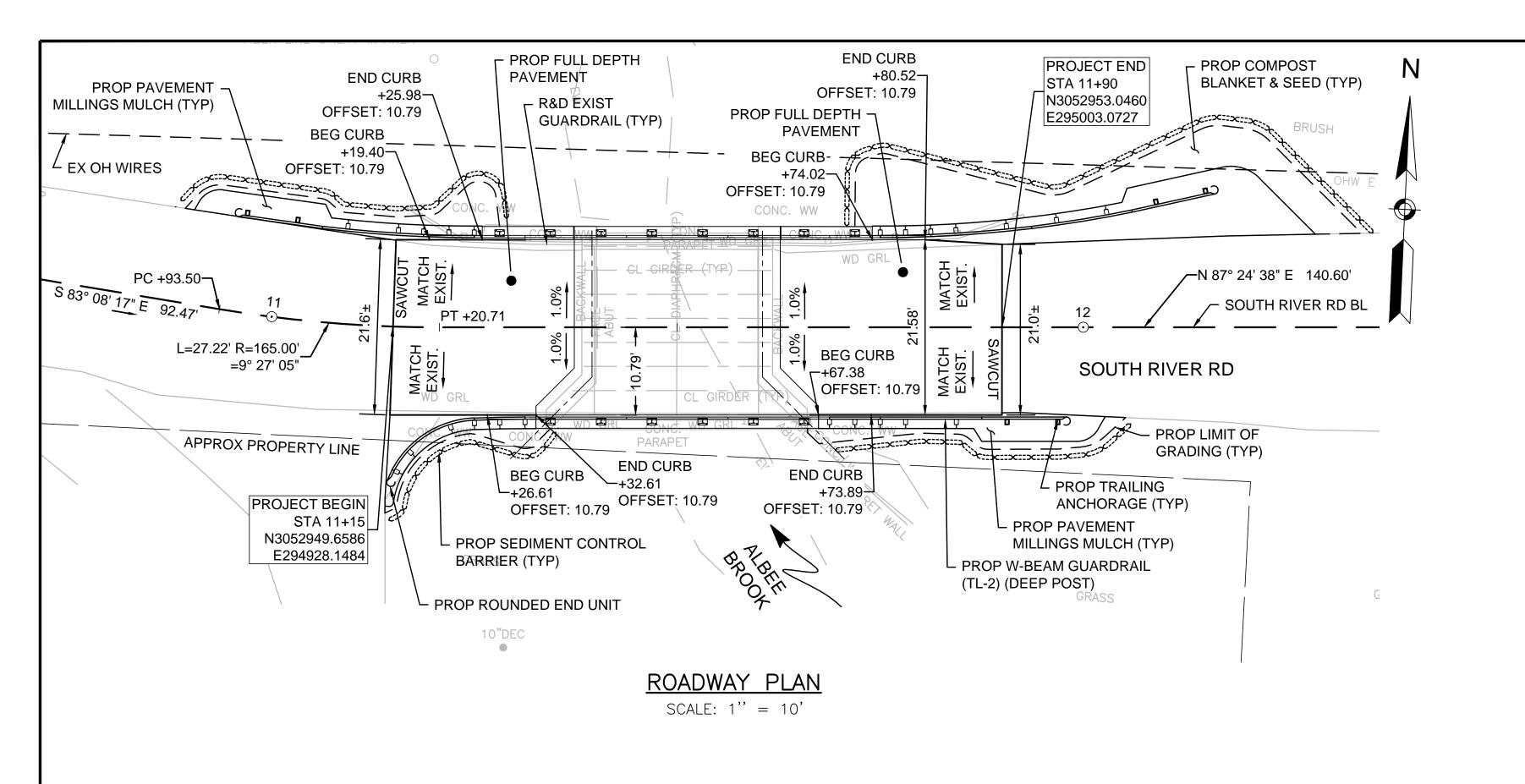
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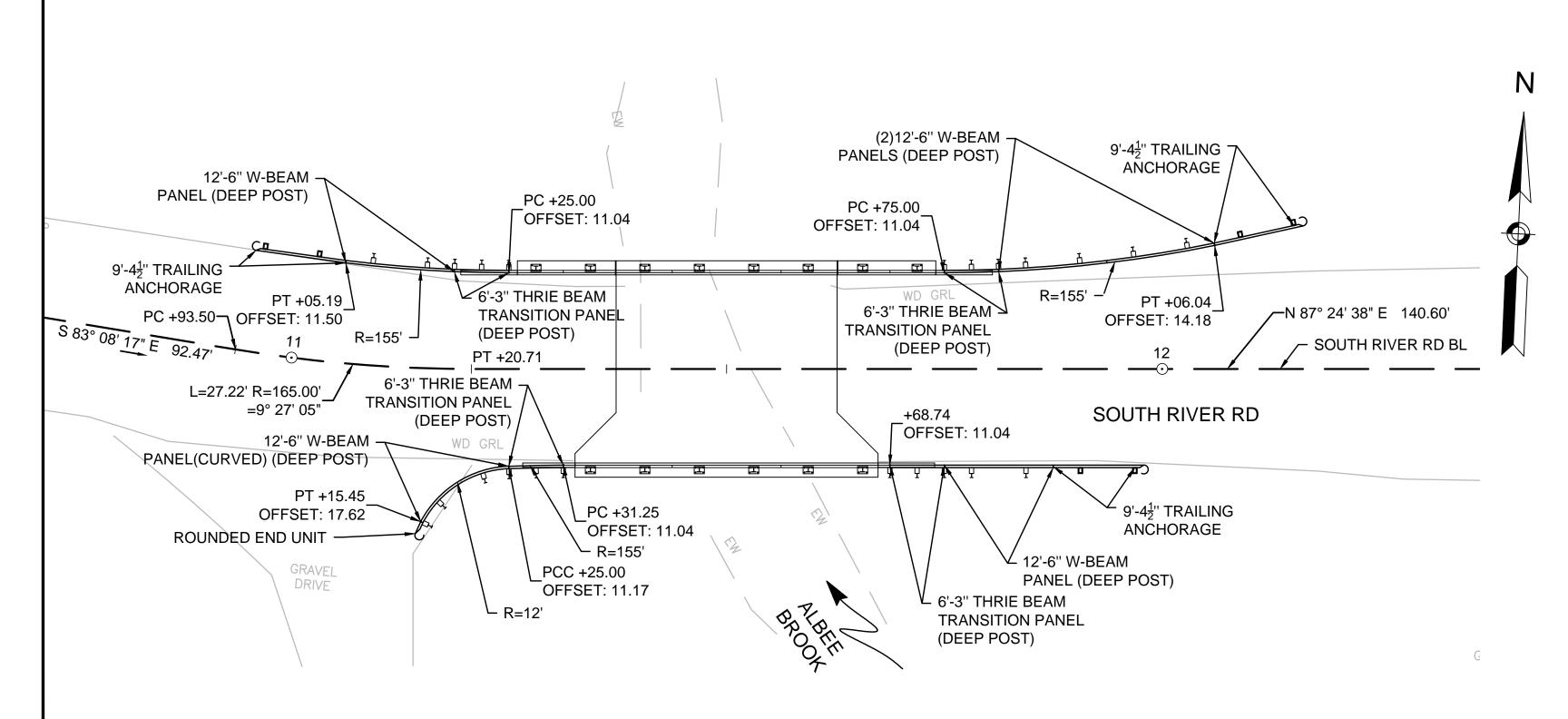
BRIDGE RAILING DETAILS

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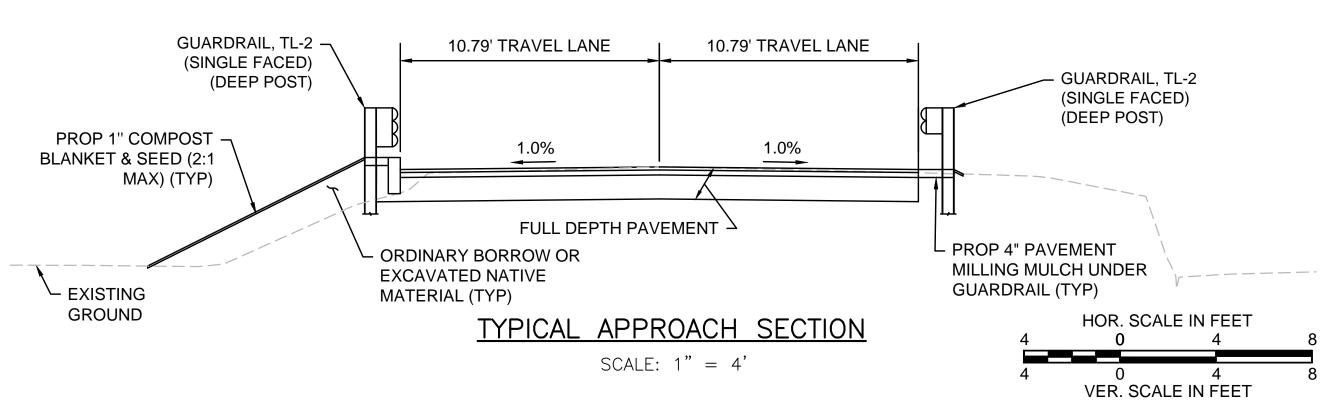
MASS. GEN. DAWS CH 85 S 35

STATE BRIDGE ENGINEER DATE





GUARDRAIL PLAN VIEW SCALE: 1" = 10"



PAVEMENT NOTES:

PROPOSED FULL DEPTH PAVEMENT

BASE:

SURFACE COURSE: 1.5" HOT MIX ASPHALT - SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER

ASPHALT EMULSION FOR TACK COAT OVER

2.5" HOT MIX ASPHALT - SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

(EXISTING BASE MATERIAL MAY REMAIN IF SUITABLE AS DETERMINED BY THE **ENGINEER**)

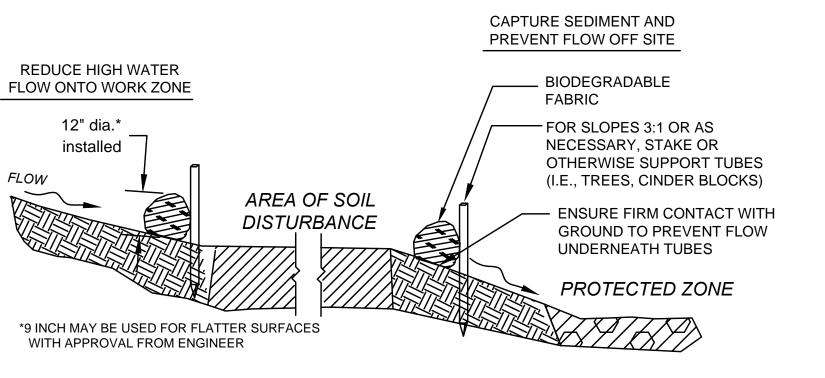
12" GRAVEL BORROW, TYPE B

MIN. 3 FT OVERLAP FLOW FOR CONTINUOUS BARRIER. PROTECTED ZONE CURVE ENDS — UPHILL - HARDWOOD STAKES PLACED OUTSIDE OF TUBES OR PER MANUFACTURERS' INSTRUCTION

PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.

ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

PLAN VIEW

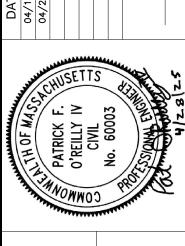


SECTION

SEDIMENT BARRIER - COMPOST FILTER TUBE

NOT TO SCALE

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PLACEMEN HARLEMONT CHARLEMONT

FOR 7 (OE VER / OF REPLA C-RIVER NWO_ DECK

PRO ROADWAY PLAN AND **TYPICAL SECTION**

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