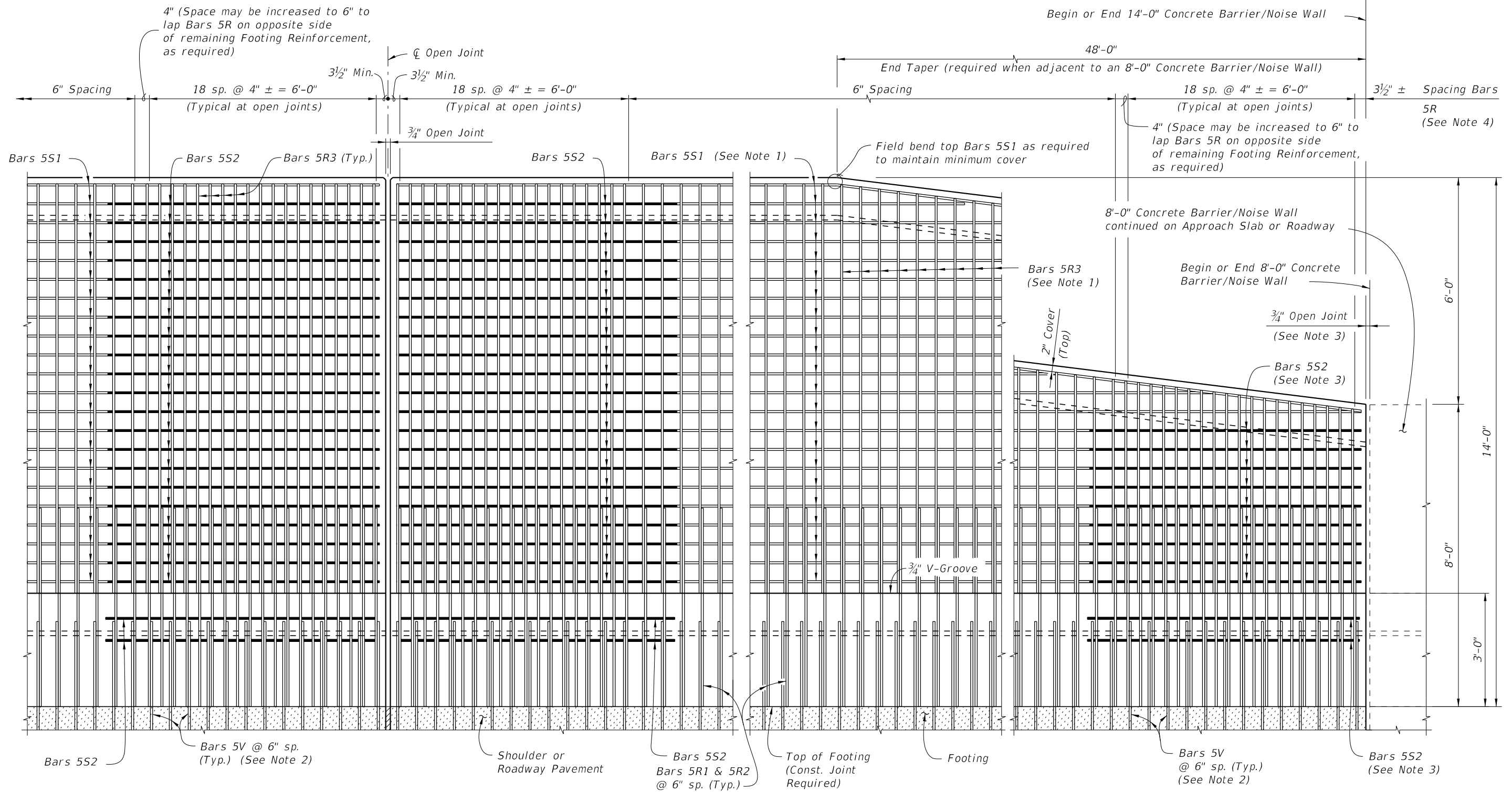




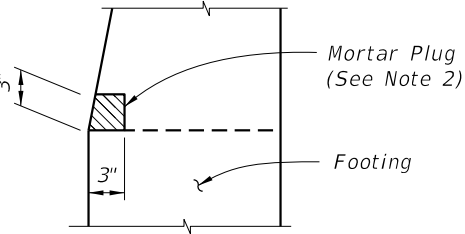
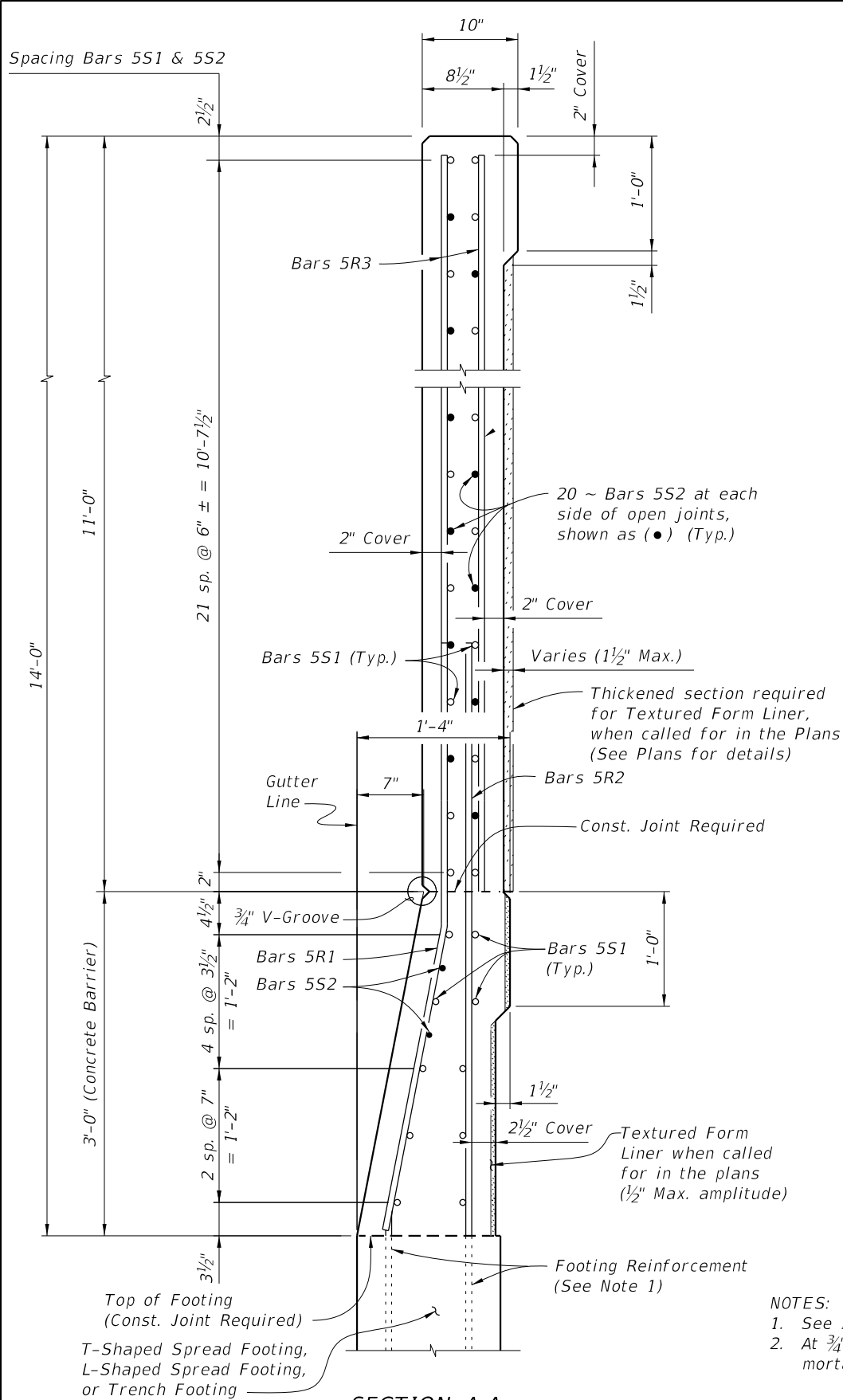
ELEVATION OF CONCRETE BARRIER/NOISE WALL REINFORCING STEEL
(Bars 5S1 in Railing not shown for clarity)

ELEVATION OF CONCRETE BARRIER/NOISE WALL END TAPER
(Bars 5S1 in Railing not shown for clarity)

- NOTES:
1. Field Cut Bars 5R & 5S1 in Noise Wall End Taper as required to maintain minimum cover.
 2. See Index 521-513, 521-514 and 521-515 for footing reinforcement.
 3. 3/4" Open Joint may be omitted when 8'-0" Railing/Noise Wall End Taper is adjacent to a 14'-0" Concrete Barrier/Noise Wall End Taper as shown on Sheet 1. See Index 521-510 for reinforcement details and spacing. Bars 5S2 are not required when 3/4" Open Joint is omitted.
 4. Bar spacing shown is along the Gutter Line.

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LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2027-28 STANDARD PLANS	CONCRETE BARRIER/NOISE WALL (14'-0")	INDEX 521-511	SHEET 2 of 3
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- NOTES:
- See Index 521-513, 521-514 or 521-515 for footing reinforcement.
 - At $\frac{3}{4}$ " Open Joints, plug the lower 3" portion of the open joint by filling it with mortar in accordance with Specification Section 400.

REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
R1	5	5'-2"
R2	5	5'-2½"
R3	5	10'-10"
S1	5	AS REQD.
S2	5	7'-3"

5S1

Length as Required

5S2

7'-3"

BARS 5S1 & 5S2

BAR 5R1 (FF)

2'-5"

2'-9"

6"

BAR 5R2 & BAR 5R3

5'-2"

10'-10"

REINFORCING STEEL NOTES:

- All bar dimensions in the bending diagrams are out to out.
- All reinforcing steel at the open joints will have a 2" minimum cover.
- Bars 5R may be continuous or spliced at construction joints. Lap splices for Bars 5R, and 5S1 will be a minimum of 2'-2".
- The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

ESTIMATED CONCRETE BARRIER/NOISE WALL QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete (Concrete Barrier)	CY/FT	0.107
Concrete (Noise Wall, excluding any thickening)	CY/FT	0.293
Reinforcing Steel (Railing/Noise Wall) (Bars R1, R2, R3, S1 & V)	LB/FT	120.88
Additional Reinf. @ Open Joint (Railing/Noise Wall)	LB	378.22

CROSS REFERENCE:
For locations of Section A-A and Detail "A", see Sheet 1.

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