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GENERAL NOTES:

- 1. CONCRETE: Use Class III or IV concrete unless otherwise called for in the Plans.
- 2. CONSTRUCTION JOINTS: Maintain continuity of reinforcement steel across Construction Joints; reinforcement lap splices are permitted immediately adjacent to joints. Construct all Pier Protection Barrier continuously, with no expansion or contraction joints. Construction Joints are classified herein as Transverse Joints or Longitudinal Joints.

Transverse Joints are permitted at 40 foot or greater intervals along the barrier.

Longitudinal Joints may only be installed where indicated in the following details and notes, with a location tolerance of ± 1 " from the locations shown.

- 3. FOUNDATION: Compact the top 12 inches of the subgrade to at least 98% of the maximum density determined by FM 1-T 180, Method D.
- 4. DRAINAGE INLETS: See Index 425-001 for Shoulder Barrier Inlets, and isolate these structures from Pier Protection Barriers and Footings with 1" Preformed Joint Filler.
- 5. BARRIER END MARKERS: For all free ends of barriers that are not connected to guardrail or concrete barrier, install a Type 3 Object Marker on the end face per Specification 705.
- 6. BARRIER DELINEATORS: Install Barrier Delineators in accordance with Specification 705. Mount the delineators on the top face of the barrier, with the roadway side of the delineator located 2" from the front face of the barrier and the reflective sheeting facing traffic of the nearest approach.
- 7. CRACK CONTROL: Provide ½" depth crack control V-Grooves at 15' to 30' spacing. Locate V-Grooves above any joint or discontinuity in the barrier footing. Align V-Grooves perpendicular to the longitudinal axis of the Pier Protection Barrier and make continuous across the top surface and both side faces. For slip formed barriers, score ½" V-Grooves while the concrete is still plastic, otherwise pre-form the joints when stationary forms are utilized.



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BARRIER FOOTING OPTIONS

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BILL OF REINFORCING STEEL					
MARK	SIZE	LENGTH			
V	5	7'-5"			
U	5	8'-11"			
R	5	6'-0"			
F1	5	13'-9"			
F2	5	Varies (Straight)			
L	5	6'-5" / 7'-5"			
E	5	4'-6"			
<i>S1</i>	8	Varies (Straight)			
52, 53	5	Varies (Straight)			







6'-8''

BARS 5F1

NOTES:

- 1. Work with the Standard Bar Bending Details per Index 415-001.
- 2. All bar dimensions in the bending diagrams are out to out.





BARS 5L

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FY 2019-20 STANDARD PLANS

PIER PROTECTION BARRIER

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BARS 5R

