
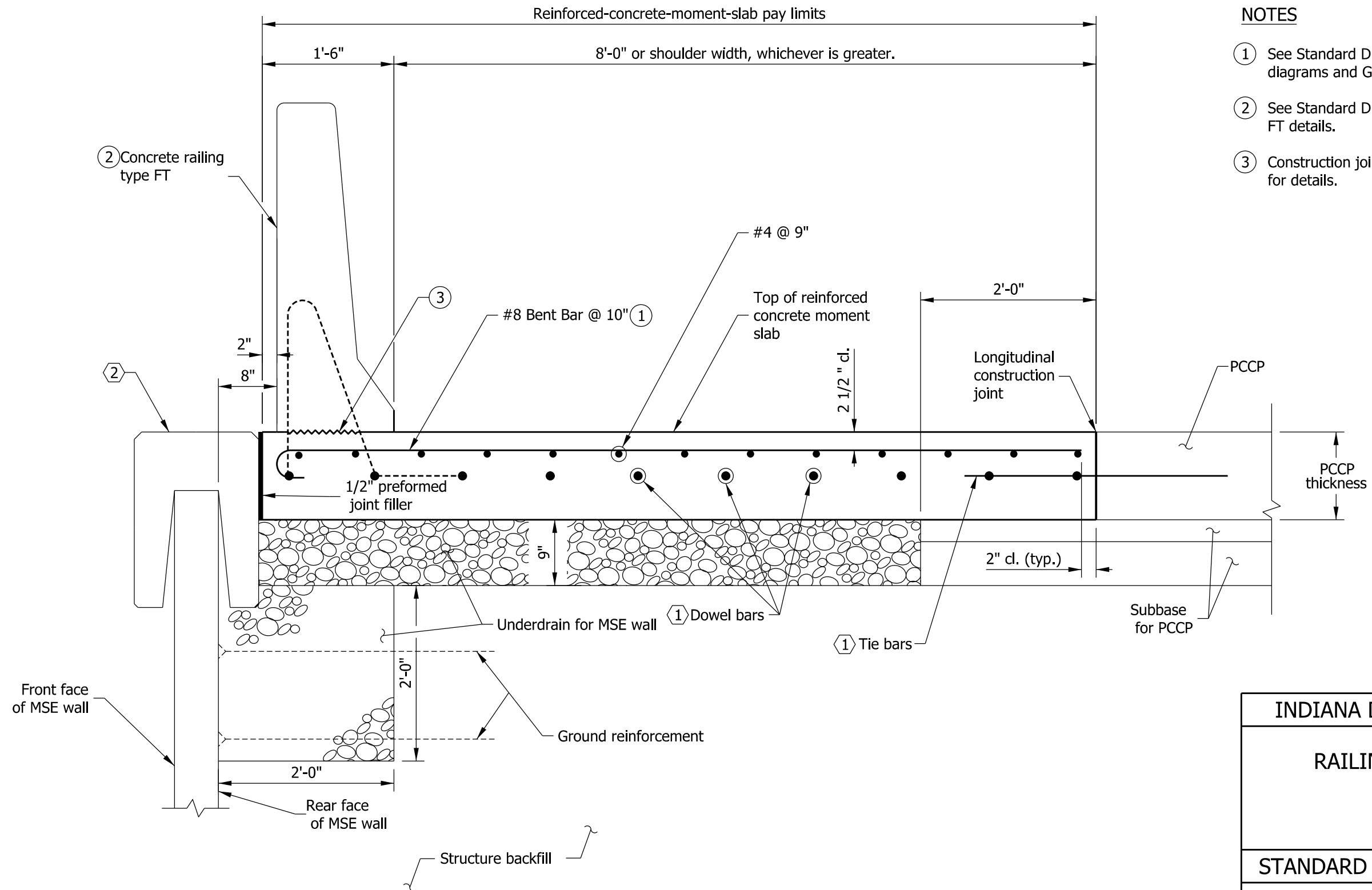


NOTES


1. See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes .
- ② See Standard Drawing E 706-BRSF-01 for concrete railing type FC details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

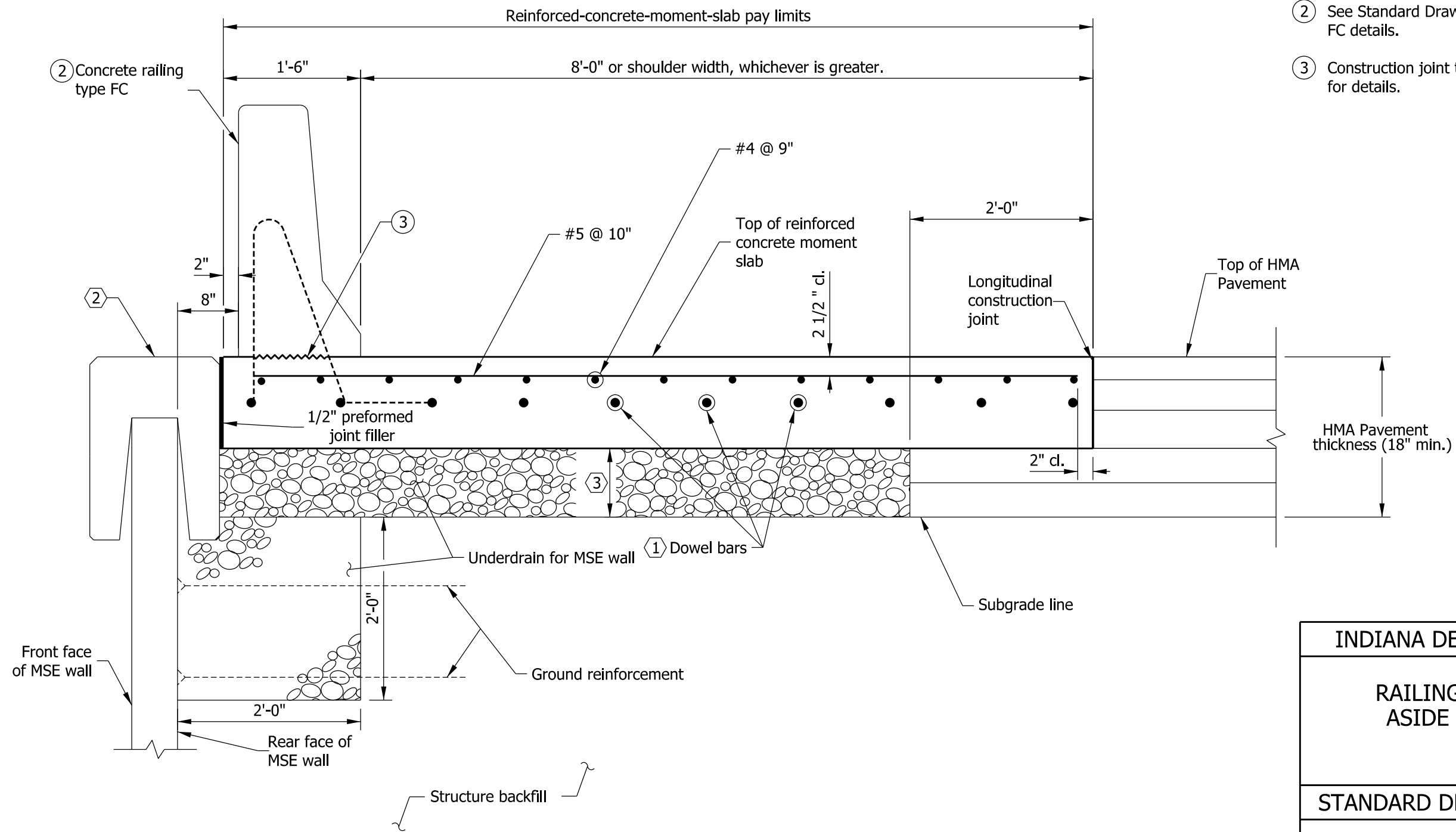
INDIANA DEPARTMENT OF TRANSPORTATION									
RAILING TYPE FC AND MOMENT SLAB ASIDE MSE WALL - PCCP									
SEPTEMBER 2012									
STANDARD DRAWING NO. E 706-MSRW-01									
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; border-bottom: 1px solid black;">/s/ <i>Richard L. VanCleave</i></td> <td style="width: 20%; border-bottom: 1px solid black;">09/04/12</td> </tr> <tr> <td style="font-size: small;">SUPERVISOR, ROADWAY STANDARDS</td> <td style="font-size: small;">DATE</td> </tr> <tr> <td style="border-bottom: 1px solid black;">/s/ <i>Mark A. Miller</i></td> <td style="border-bottom: 1px solid black;">09/04/12</td> </tr> <tr> <td style="font-size: small;">CHIEF ENGINEER</td> <td style="font-size: small;">DATE</td> </tr> </table>	/s/ <i>Richard L. VanCleave</i>	09/04/12	SUPERVISOR, ROADWAY STANDARDS	DATE	/s/ <i>Mark A. Miller</i>	09/04/12	CHIEF ENGINEER	DATE
/s/ <i>Richard L. VanCleave</i>	09/04/12								
SUPERVISOR, ROADWAY STANDARDS	DATE								
/s/ <i>Mark A. Miller</i>	09/04/12								
CHIEF ENGINEER	DATE								



NOTES

- ① See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- ② See Standard Drawing E 706-BRSF-02 for concrete railing type FT details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION									
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SUPERVISOR, ROADWAY STANDARDS	DATE								
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NOTES

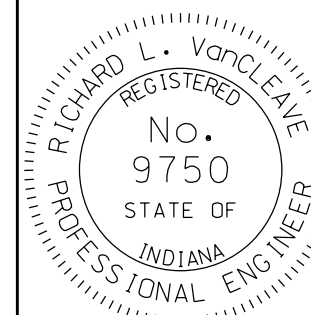
1. See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes .
- 2 See Standard Drawing E 706-BRSF-01 for concrete railing type FC details.
- 3 Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION

RAILING TYPE FC AND MOMENT SLAB
ASIDE MSE WALL - HMA PAVEMENT

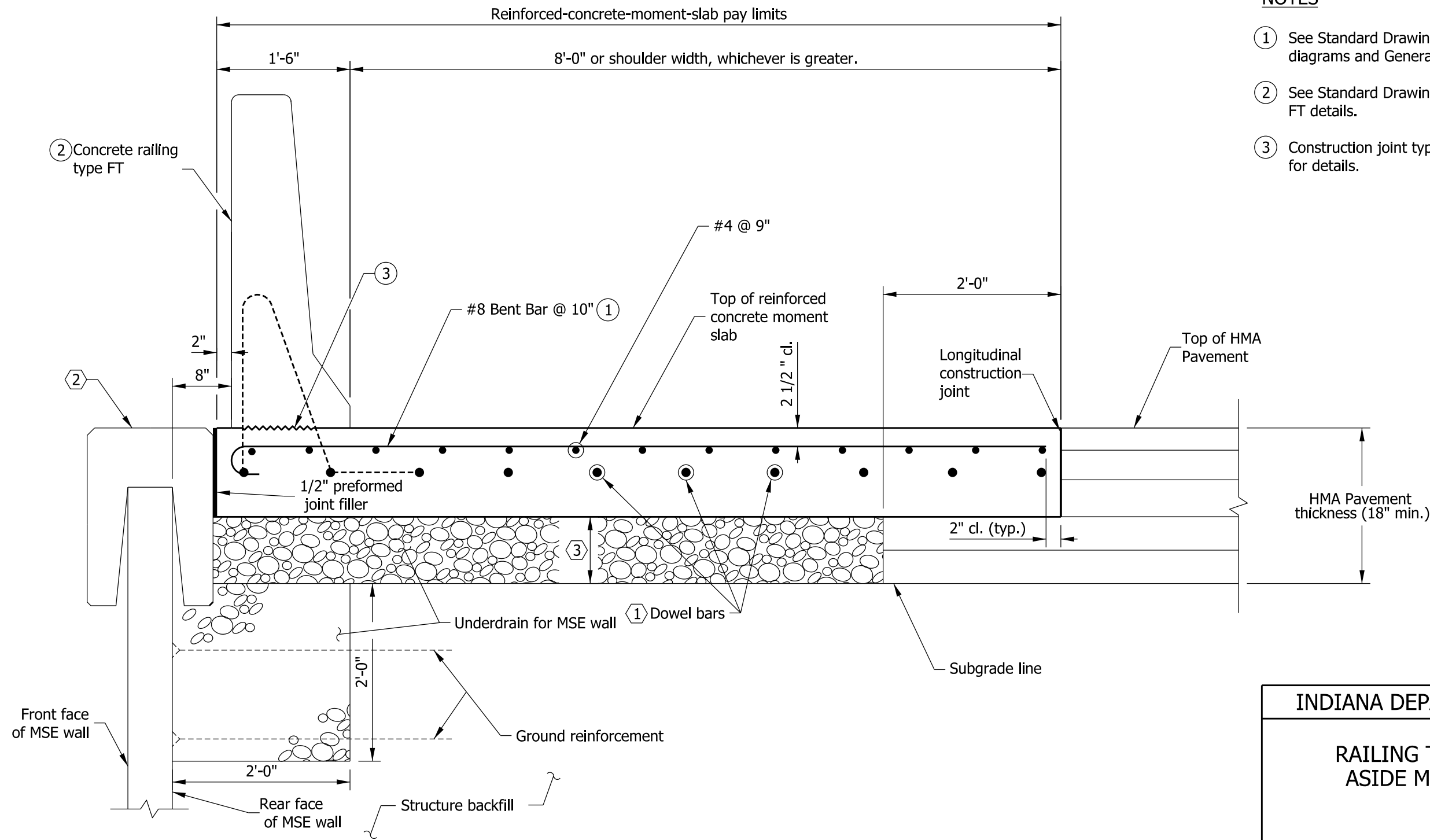
SEPTEMBER 2012

STANDARD DRAWING NO. E 706-MSRW-03



/s/ Richard L. VanCleave 09/04/12
SUPERVISOR, ROADWAY STANDARDS DATE

/s/ Mark A. Miller 09/04/12
CHIEF ENGINEER DATE



NOTES

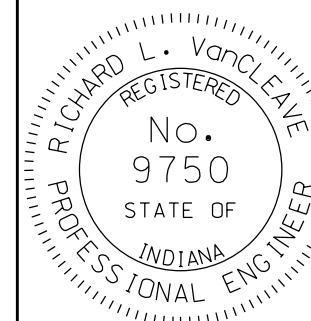
- (1) See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- (2) See Standard Drawing E 706-BRSF-02 for concrete railing type FT details.
- (3) Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION

RAILING TYPE FT AND MOMENT SLAB
ASIDE MSE WALL - HMA PAVEMENT

SEPTEMBER 2012

STANDARD DRAWING NO. E 706-MSRW-04

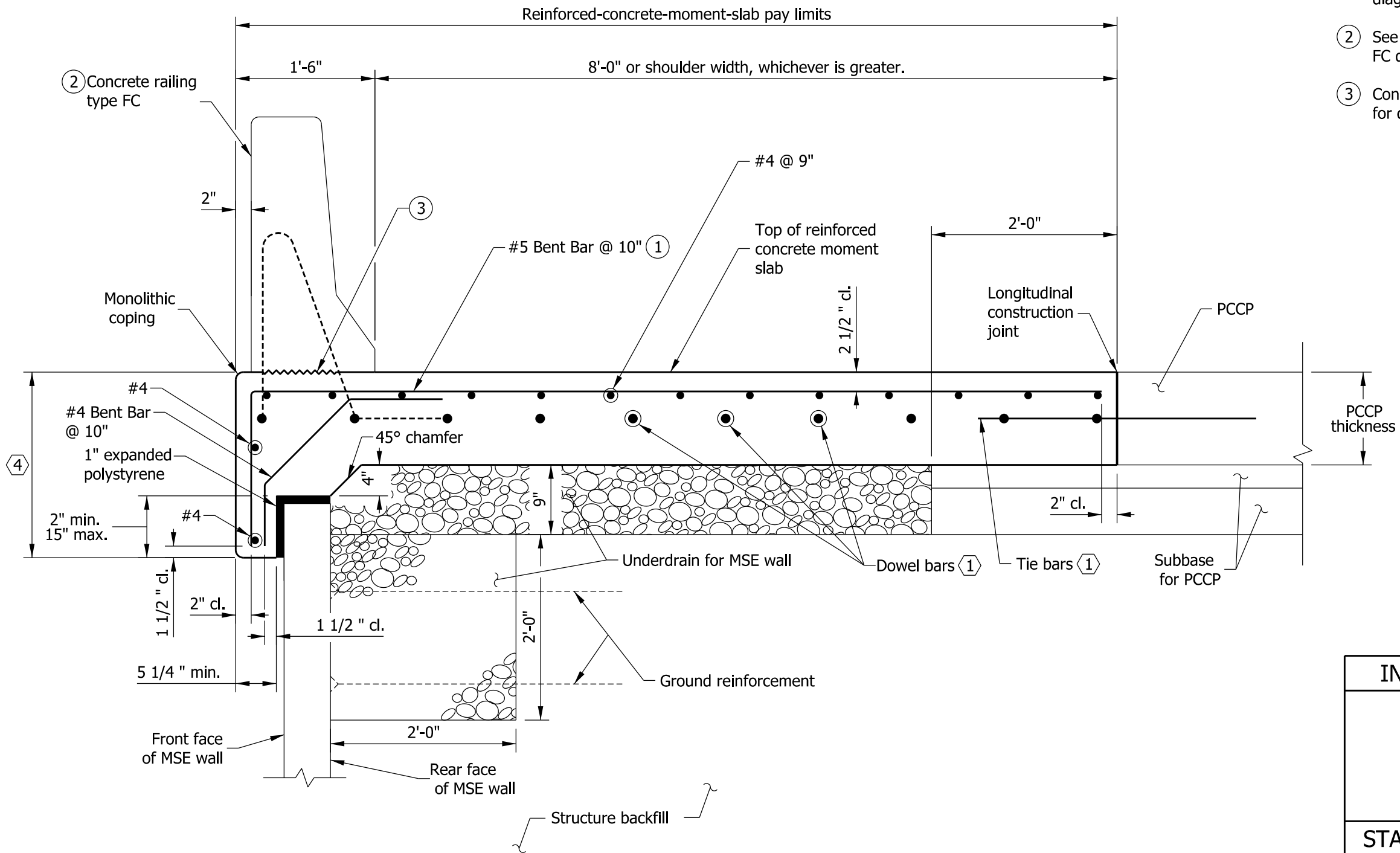


/s/ Richard L. VanCleave 09/04/12

SUPERVISOR, ROADWAY STANDARDS DATE


/s/ Mark A. Miller 09/04/12

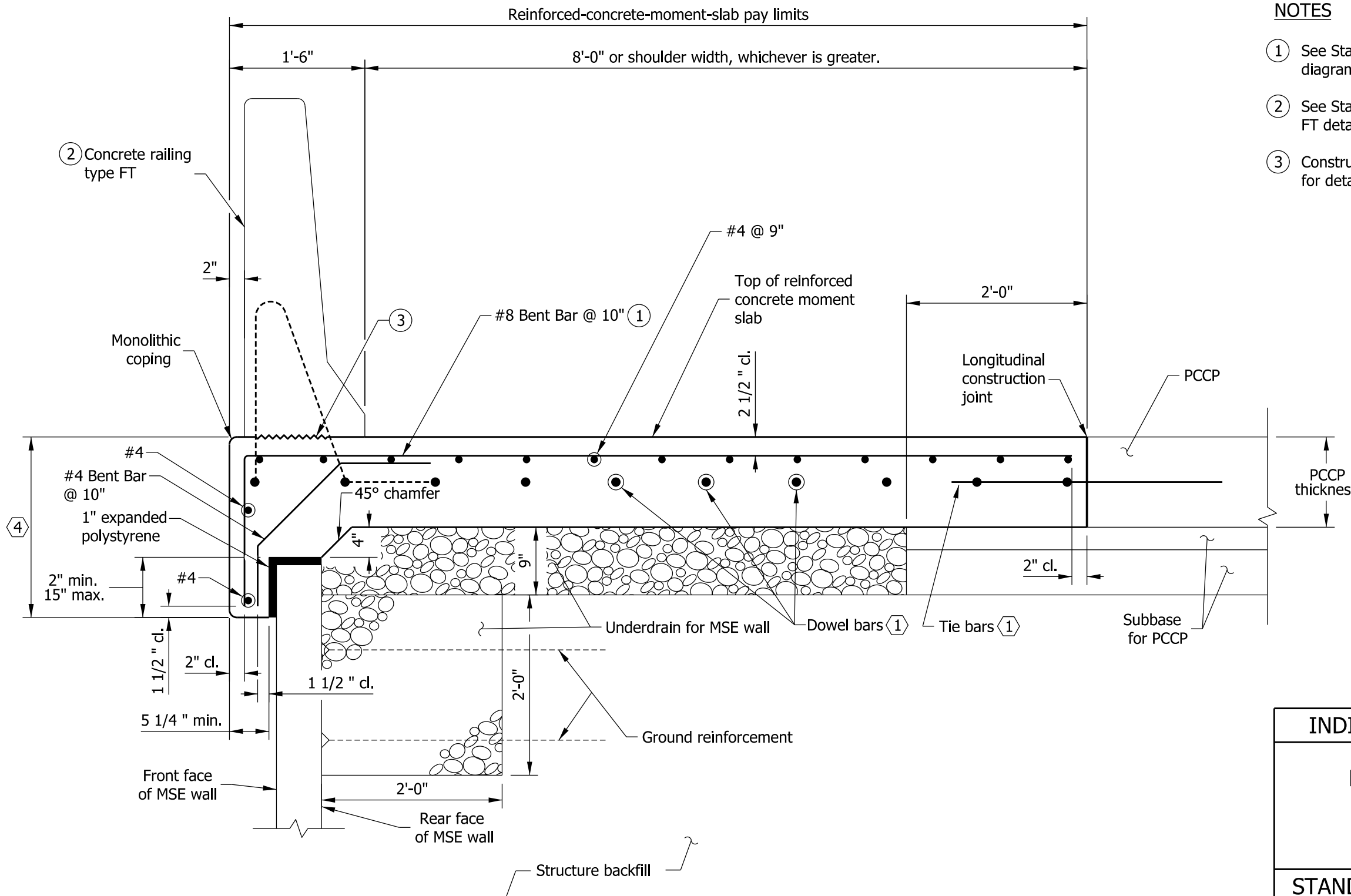
CHIEF ENGINEER DATE



NOTES

- ① See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes .
- ② See Standard Drawing E 706-BRSF-01 for concrete railing type FC details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION									
RAILING TYPE FC AND MOMENT SLAB ATOP MSE WALL - PCCP									
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NOTES

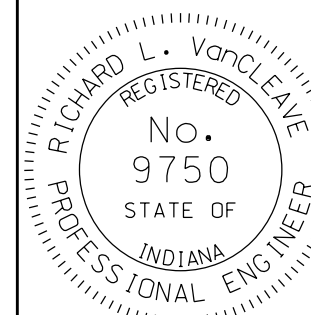
- ① See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- ② See Standard Drawing E 706-BRSF-02 for concrete railing type FT details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION

RAILING TYPE FT AND MOMENT SLAB
ATOP MSE WALL - PCCP

SEPTEMBER 2012

STANDARD DRAWING NO. E 706-MSRW-06

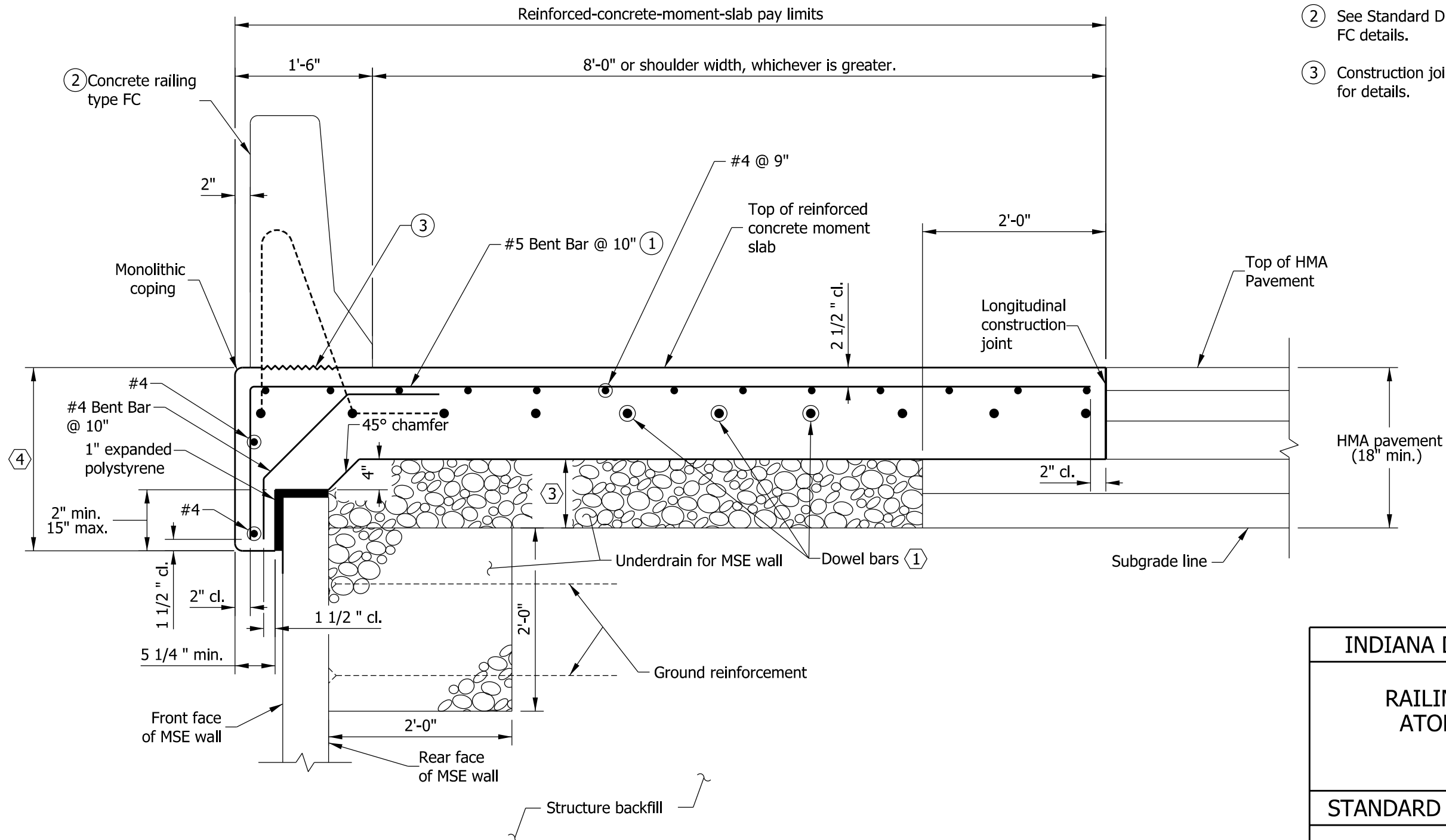


/s/ Richard L. VanCleave 09/04/12
SUPERVISOR, ROADWAY STANDARDS DATE

/s/ Mark A. Miller 09/04/12
CHIEF ENGINEER DATE

NOTES

- ① See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- ② See Standard Drawing E 706-BRSF-01 for concrete railing type FC details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

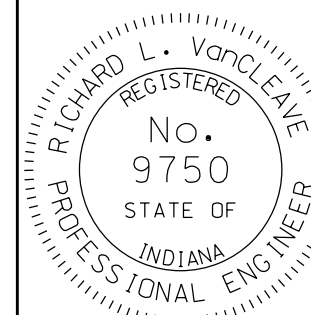


INDIANA DEPARTMENT OF TRANSPORTATION

RAILING TYPE FC AND MOMENT SLAB
ATOP MSE WALL - HMA PAVEMENT

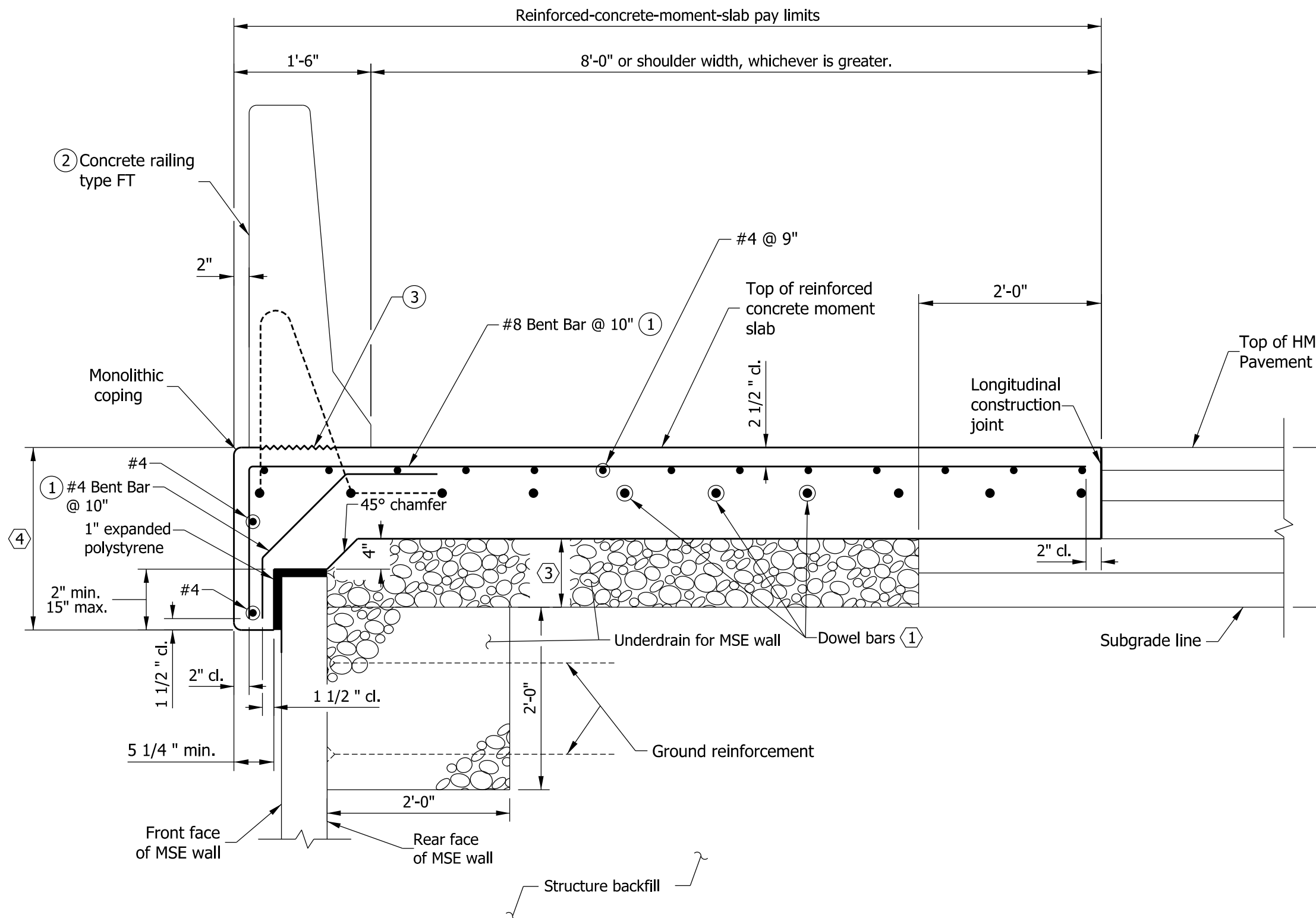
SEPTEMBER 2012

STANDARD DRAWING NO. E 706-MSRW-07



/s/ *Richard L. VanCleave* 09/04/12
SUPERVISOR, ROADWAY STANDARDS DATE

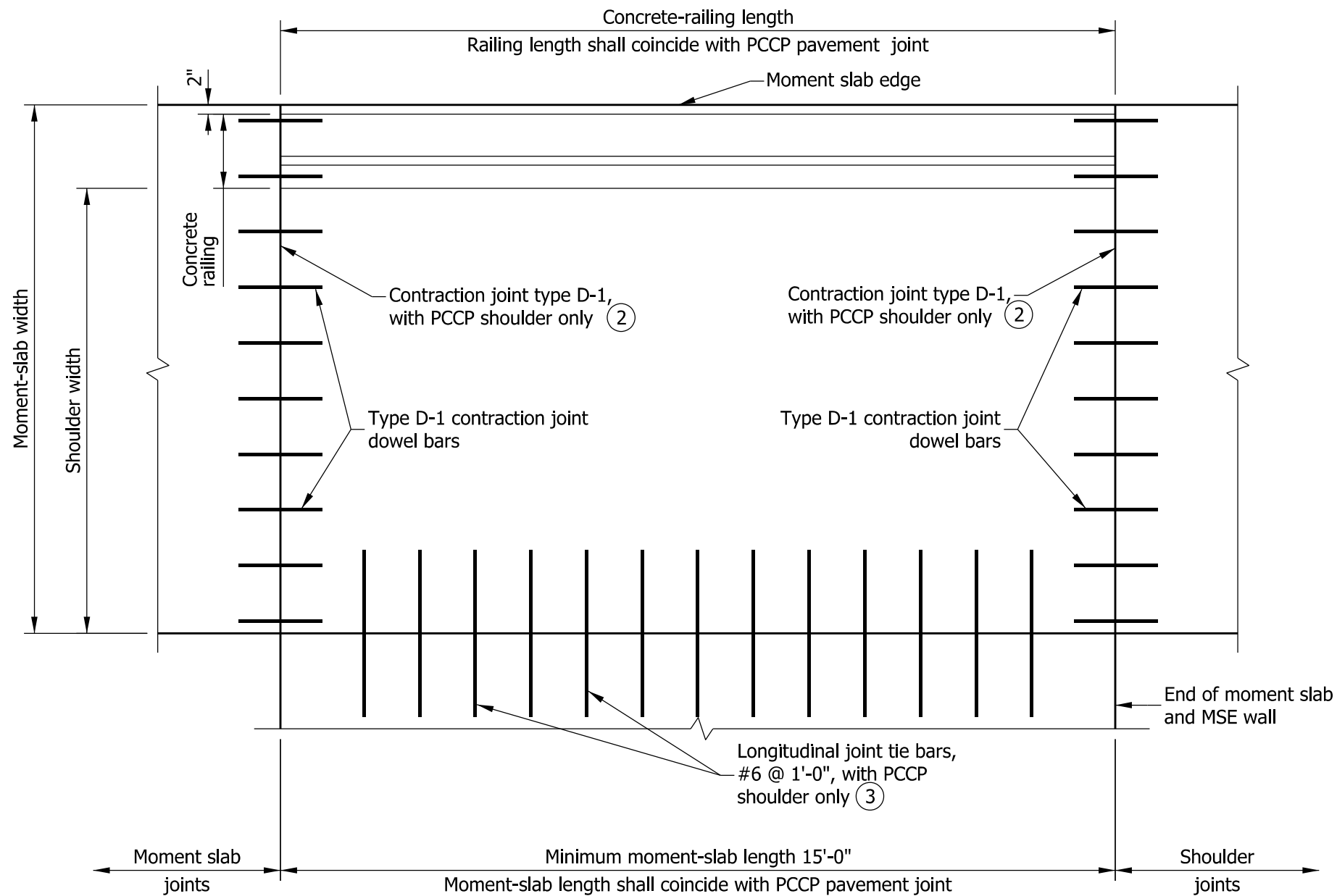
/s/ *Mark A. Miller* 09/04/12
CHIEF ENGINEER DATE



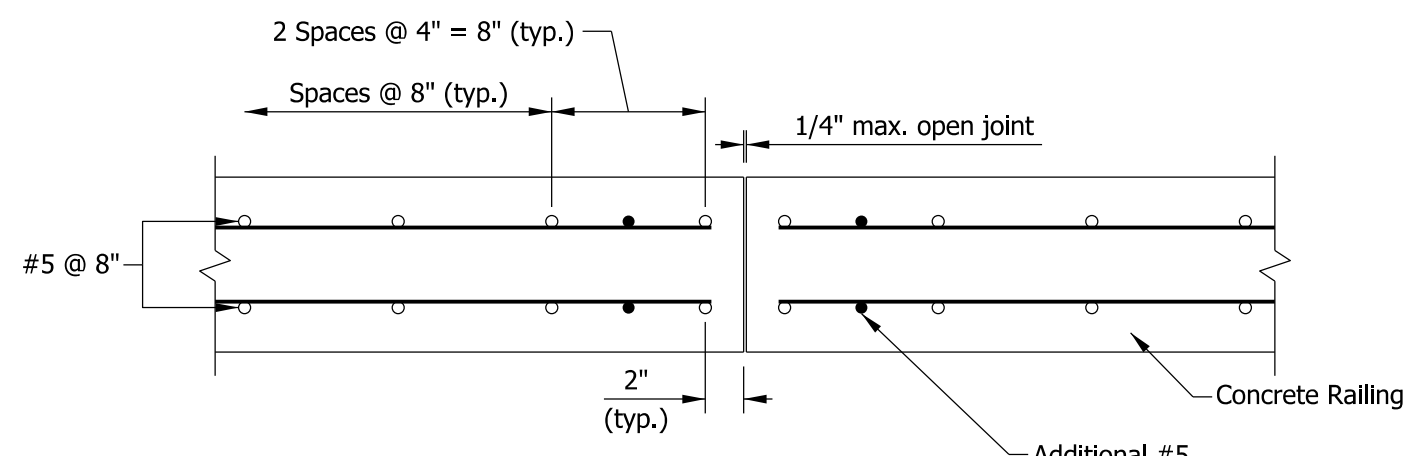
NOTES

- ① See Standard Drawing E 706-MSRW-10 for reinforcing-bar diagrams and General Notes.
- ② See Standard Drawing E 706-BRSF-02 for concrete railing type FT details.
- ③ Construction joint type A. See Standard Drawing E 702-CJTA-01 for details.

INDIANA DEPARTMENT OF TRANSPORTATION	
RAILING TYPE FT AND MOMENT SLAB ATOP MSE WALL - HMA PAVEMENT	
SEPTEMBER 2012	
STANDARD DRAWING NO.	E 706-MSRW-08
	/s/ <i>Richard L. VanCleave</i> 09/04/12 SUPERVISOR, ROADWAY STANDARDS DATE
	/s/ <i>Mark A. Miller</i> 09/04/12 CHIEF ENGINEER DATE




PLAN - REINFORCED CONCRETE MOMENT SLAB JOINTS



**PLAN - CONCRETE RAILING
ADDITIONAL VERTICAL STEEL**

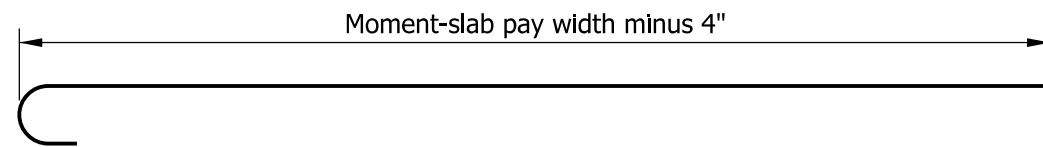
NOTES

1. Where used with HMA mainline pavement, concrete railing and moment-slab lengths shall coincide and be spaced at 18'-0".
- (2) See Standard Drawing E 503-CCPJ-01 for contraction joint type D-1 details.
- (3) See Standard Drawing E 503-CCPJ-02 for joint tie bars details.

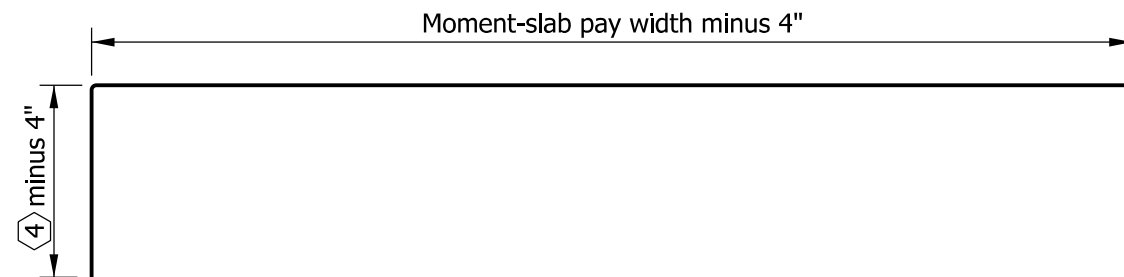
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MOMENT SLAB JOINTS									
SEPTEMBER 2012									
STANDARD DRAWING NO.	E 706-MSRW-09								
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GENERAL NOTES

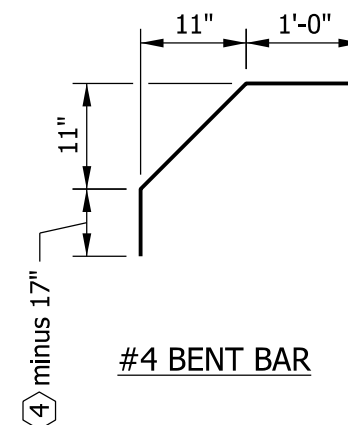
- ① See Standard Drawing E 706-MSRW-09 for plan view and additional reinforcing bars in the railing at the railing joints.
- ② See Standard Drawing E 731-MSEW-01 for coping details.
- ③ The thickness of the coarse aggregate No. 8 shall be equal to the combined thicknesses of the first two lifts of HMA, but not less than 6 in.
- ④ For moment slab thickness ≤ 15 in., this shall be 2'-0".
For moment slab thickness > 15 in., this shall be moment-slab thickness plus 12 in.
- 5. The moment slab shall be used only within the limits of the MSE wall.
- 6. Reinforcing bars in the moment slab shall be epoxy coated.
- 7. See Standard Drawing E 703-BRST-01 for reinforcing-bar bending diagrams and notes.



#8 BENT BAR
WITH STANDARD 180° HOOK



#5 BENT BAR OR #8 BENT BAR
WITH STANDARD 90° BEND



#4 BENT BAR

INDIANA DEPARTMENT OF TRANSPORTATION											
RAILING AND MOMENT SLAB AT MSE WALL											
SEPTEMBER 2012											
STANDARD DRAWING NO. E 706-MSRW-10											
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