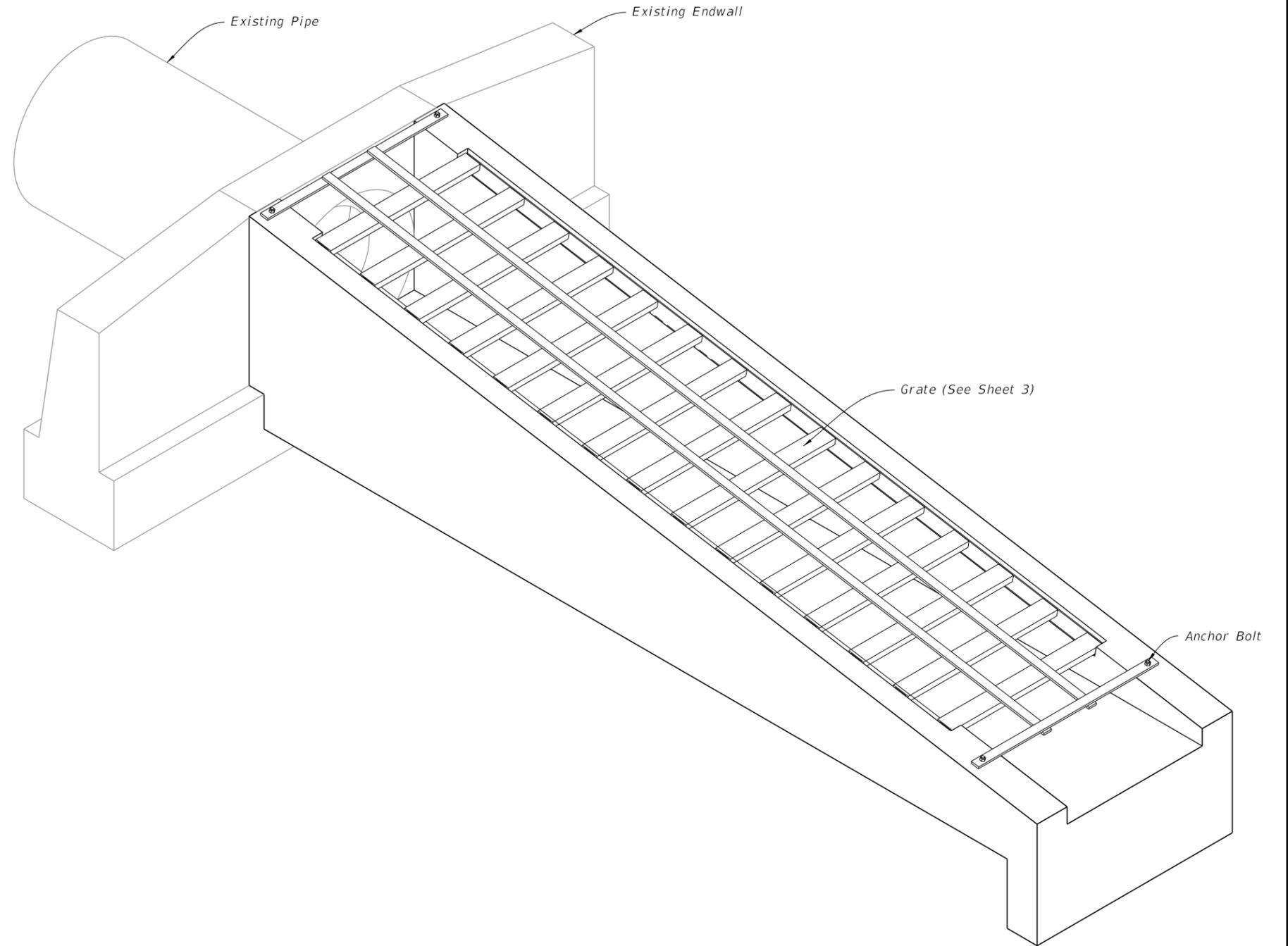


GENERAL NOTES:

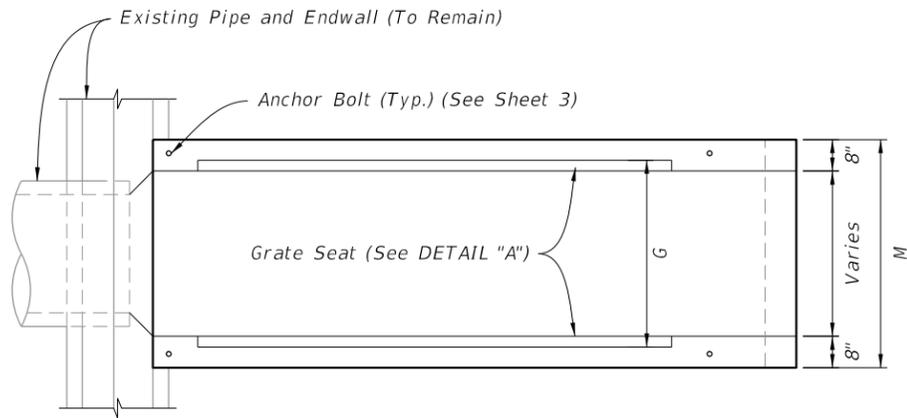
1. Use Class II Concrete.
2. Channel section C3 x 6.0 may be substituted for the C4 x 5.4 channel.
3. All steel reinforcing bars are #4 with 2" cover except as noted. Spacing shown are center to center. Lap bars 1'-5" minimum. Welded wire fabric (two cages max.) with an equivalent cross section area (0.20 sq. in.) may be substituted for bar reinforcement.
4. Drill 1 1/4" holes 8" deep with a rotary drill in existing endwall for dowel bars. Thoroughly clean holes prior to installing Adhesive-Bonded Dowels.
5. Quantities shown are for estimating purposes only.
6. For supplemental details, see Index 425-001.



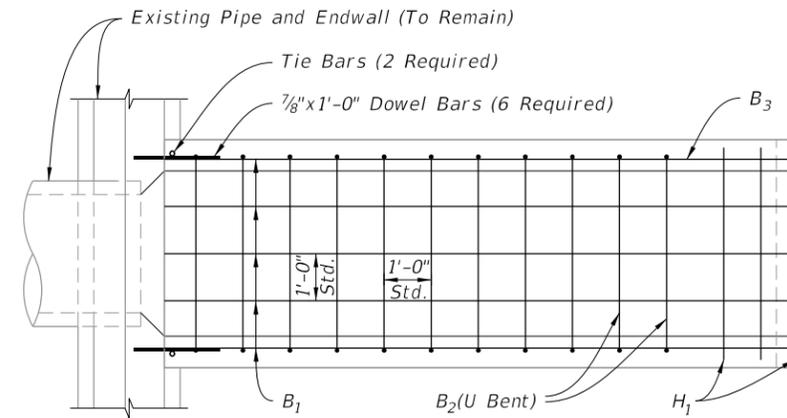
| TABLE OF CONTENTS: | |
|--------------------|---------------------------------|
| Sheet | Description |
| 1 | General Notes and Contents |
| 2 | Endwalls for 1:4 and 1:6 Slopes |
| 3 | Steel Grate |

SAFETY MODIFICATIONS

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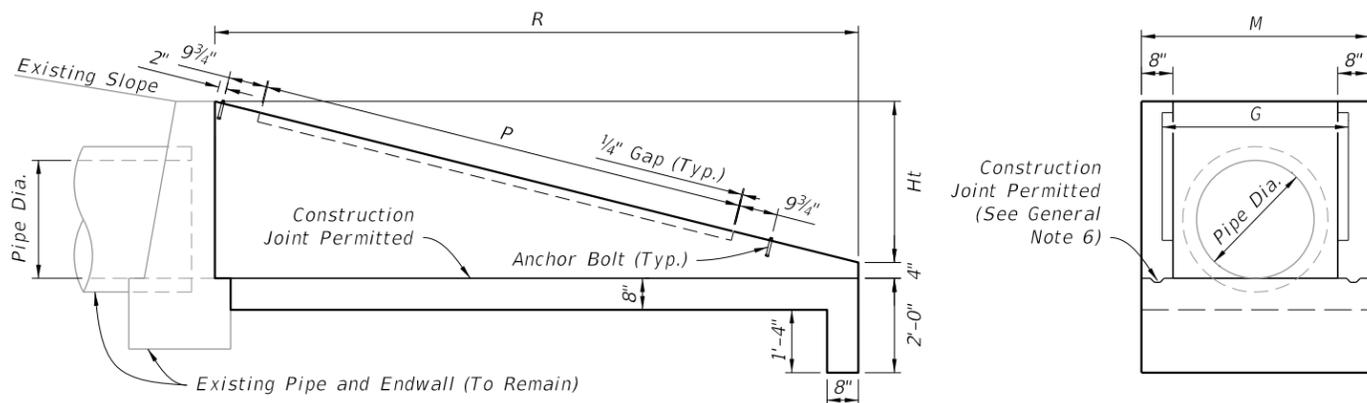


PLAN



PLAN

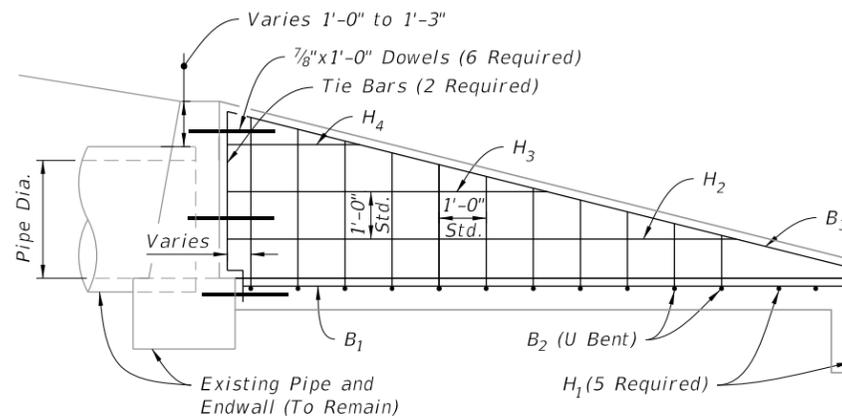
LEGEND:
 H = Horizontal Bars
 B = Bent Bars



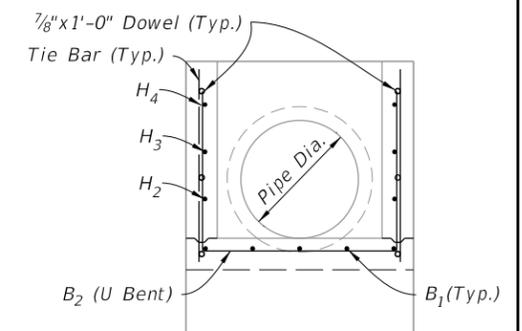
ELEVATION

END VIEW

DIMENSIONAL DETAILS



ELEVATION



BACK VIEW

REINFORCING DETAILS

TABLE 1
U-ENDWALL DIMENSIONS AND QUANTITIES

| Slope | Pipe Dia. | G | M | Ht | R | P | Class II Concrete-CY | Reinforcing Steel-lbs. | Sod SY |
|-------|-----------|------------|--------|--------|--------|--------|----------------------|------------------------|--------|
| 1:6 | 15" | 2'-8 1/2" | 3'-7" | 2'-2" | 13'-0" | 9'-4" | 2.12 | 167 | 23 |
| | 18" | 2'-11 1/2" | 3'-10" | 2'-5" | 14'-6" | 11'-4" | 2.53 | 173 | 25 |
| | 24" | 3'-5 1/2" | 4'-4" | 2'-11" | 17'-6" | 14'-4" | 3.48 | 238 | 29 |
| | 30" | 3'-11 1/2" | 4'-10" | 3'-5" | 20'-6" | 17'-4" | 4.57 | 315 | 32 |
| 1:4 | 15" | 2'-8 1/2" | 3'-7" | 2'-2" | 8'-8" | 5'-4" | 1.44 | 120 | 19 |
| | 18" | 2'-11 1/2" | 3'-10" | 2'-5" | 9'-8" | 6'-4" | 1.72 | 130 | 20 |
| | 24" | 3'-5 1/2" | 4'-4" | 2'-11" | 11'-8" | 8'-4" | 2.36 | 167 | 22 |
| | 30" | 3'-11 1/2" | 4'-10" | 3'-5" | 13'-8" | 10'-4" | 3.09 | 225 | 25 |

ENDWALLS FOR 1:4 AND 1:6 SLOPES

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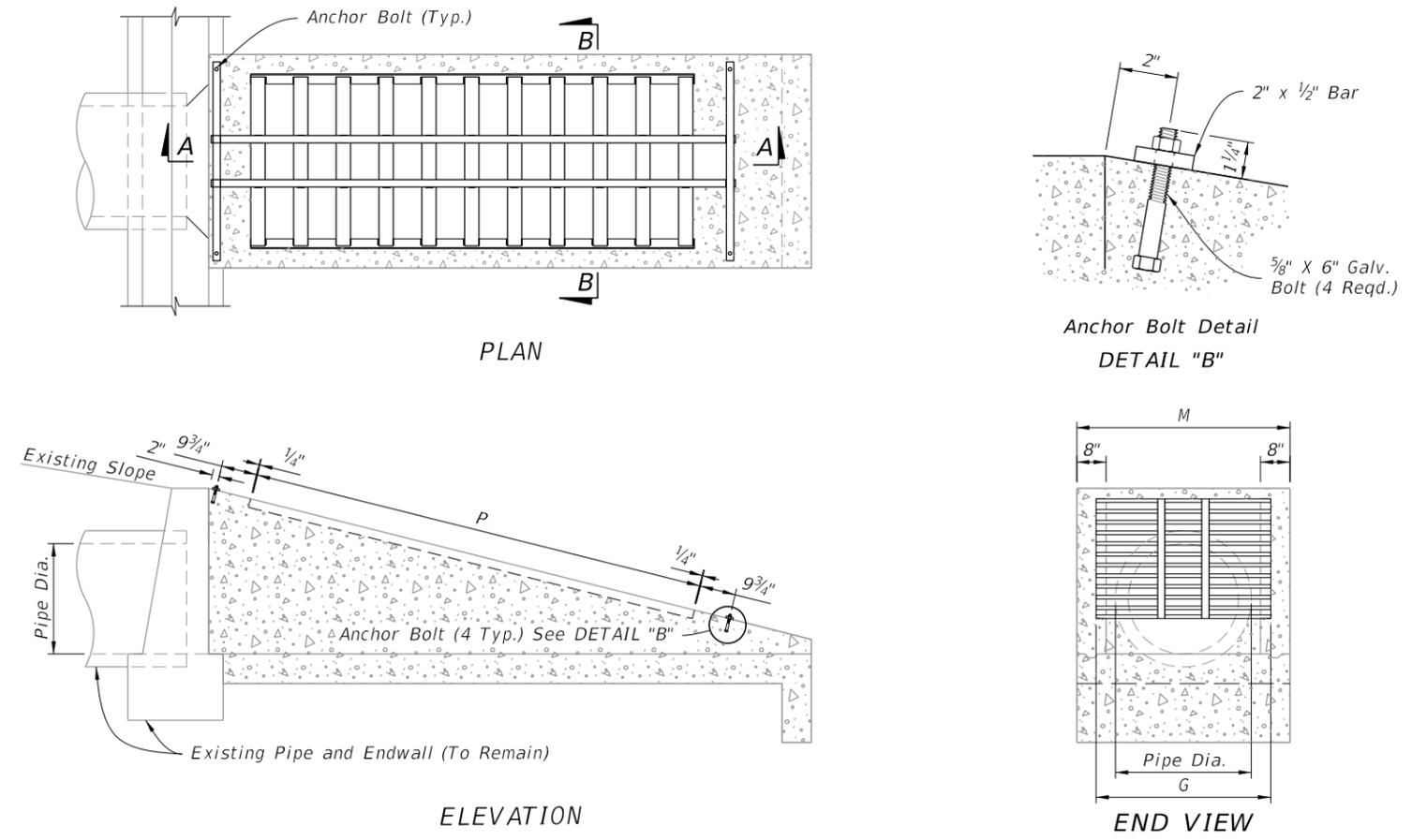
| | | |
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| LAST REVISION 11/01/21 | REVISION | DESCRIPTION: |
|---------------------------|----------|--------------|


**FY 2023-24
STANDARD PLANS**

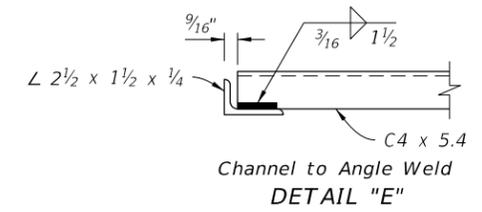
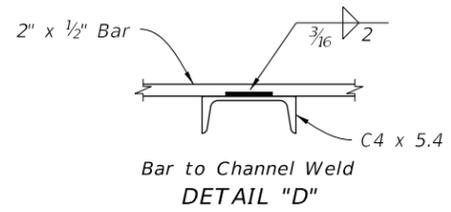
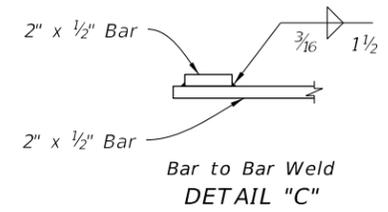
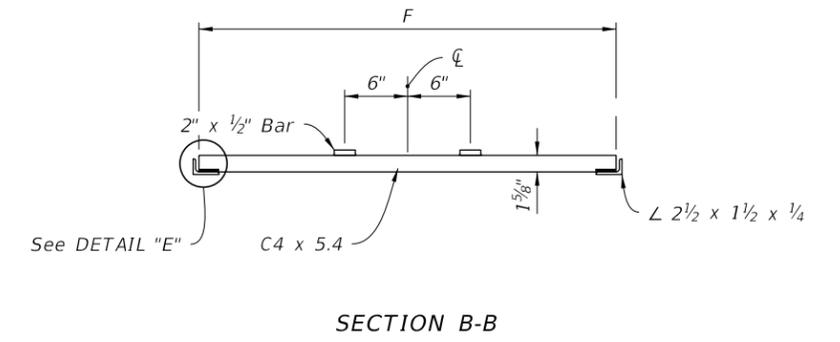
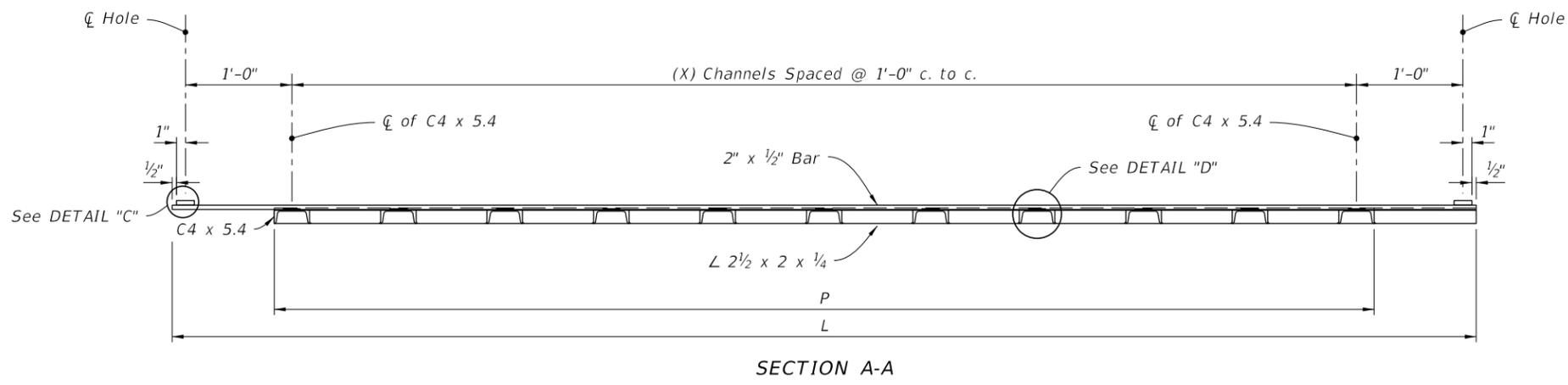
SAFETY MODIFICATIONS FOR ENDWALLS

| | |
|------------------|-----------------|
| INDEX 430-090 | SHEET 2 of 3 |
|------------------|-----------------|

| TABLE 2 GRATE DIMENSIONS AND QUANTITIES | | | | | | | | | |
|--|-----------|------------------------|------------------------------------|------|---------------------------|-------|------|----------------------|------|
| Slope | Pipe Dia. | Channels @ 5.4 Lbs./LF | | | Bars @ 3.4 lbs/LF (2 ea.) | | | Angles @ 3.2 Lbs./LF | |
| | | Quantity | F | lbs. | L | M-4" | lbs. | P | lbs. |
| 1:6 | 15" | 10 | 2'-6 ⁷ / ₈ " | 139 | 11'-3" | 3'-3" | 99 | 9'-4" | 60 |
| | 18" | 12 | 2'-9 ⁷ / ₈ " | 183 | 13'-3" | 3'-6" | 114 | 11'-4" | 73 |
| | 24" | 15 | 3'-3 ⁷ / ₈ " | 269 | 16'-3" | 4'-0" | 138 | 14'-4" | 92 |
| | 30" | 18 | 3'-9 ⁷ / ₈ " | 372 | 19'-3" | 4'-6" | 162 | 17'-4" | 111 |
| 1:4 | 15" | 6 | 2'-6 ⁷ / ₈ " | 83 | 7'-3" | 3'-3" | 71 | 5'-4" | 34 |
| | 18" | 7 | 2'-9 ⁷ / ₈ " | 107 | 8'-3" | 3'-6" | 80 | 6'-4" | 41 |
| | 24" | 9 | 3'-3 ⁷ / ₈ " | 161 | 10'-3" | 4'-0" | 97 | 8'-4" | 53 |
| | 30" | 11 | 3'-9 ⁷ / ₈ " | 227 | 12'-3" | 4'-6" | 114 | 10'-4" | 66 |



STEEL GRATE MOUNTING



STEEL GRATE DETAILS

STEEL GRATE

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| | | | | | | |
|---------------------------|--------------|--|------------------------------|-----------------------------------|------------------|-----------------|
| LAST REVISION 11/01/19 | DESCRIPTION: | | FY 2023-24 STANDARD PLANS | SAFETY MODIFICATIONS FOR ENDWALLS | INDEX 430-090 | SHEET 3 of 3 |
| | | | | | | |