# Index 430-001 <br> Miscellaneous Drainage Details 

## ORIGINATION

Date: May 7, 2019
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## COMMENTARY

Reorganized Index, Added additional Sheets. Moved callout information to Notes.
Clarified Note 4 on new Sheet 3.

Reorganized Details and Sheets to declutter Index. Moved information from detail callouts to Notes in order to decrease clutter of the drawing. Reworded Note 4 on new Sheet 3 to remove confusion on usage of concrete jackets.

## COMMENTS AND RESPONSES

BLACK = Industry Review Comments RED = Standard Plans Response
Name: Erin Yao
Date: August 8, 2019

## COMMENT:

Sheet 3: Wire mesh should be full width (probably used a very large dashed line that looks like two pieces)


Sheet 4:



Sheet 6:


## RESPONSE:

Date 8/1/2019
Made all changes
Name: Erin, Yao
Date: August 7, 2019

## COMMENT:

Sheet 4:


## Sheet 5:

| GUARD TABLE |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Prpe } \\ \text { pla } \end{gathered}$ | $\begin{gathered} \text { Top } \\ \text { stoce } \\ \text { sracket } \end{gathered}$ | $\begin{aligned} & \text { Soltom } \\ & \text { Steel } \\ & \text { Plete } \end{aligned}$ | Number of <br> Vert. Bars <br> and <br> plate Holes | Number of Horiz. Bars | $\begin{aligned} & \text { Bars } \\ & \text { Size } \end{aligned}$ | Weight los. |
| $18^{\circ}$ | z-4. | $3{ }^{3} 6^{\circ}$ | 4 | 1 | \% | 48 |
| 24 | $3-\sigma$ | $4 \sim 0^{\prime \prime}$ | 5 | 2 | $\%_{2}$ | 58 |
| $30^{\circ}$ | $3-\sigma$ | $4-6^{*}$ | 5 | 3 | $\%^{*}$ | 74 |
| $36^{\circ}$ | 3-8 | S-C | 6 | 4 | \% | 90 |
| $42^{\circ}$ | $8-8$ | $55^{\circ}$ | 7 | 5 | \% | 111 |



## RESPONSE:

Date 8/8/2019

We will look at the pipe wall thickness. It is drawn to scale which does limit our ability to alter. Regarding the pipe guards, I agree that larger pipes do require guards in certain situations. It is my understanding that guards for the larger pipes are currently detailed in the plans. We could talk to structures and consider adding some larger pipes to the index Unfortunately, this is out of the scope of our current revisions and would need to be considered in next year's cycle.


end elevation


stub end elevation
SIDE ELEVATION

- joining mainline pipe to stub pipe


## NOTES:

1. The collar may be formed by any method approved by the Engineer.
2. Install $1 / 2^{\prime \prime} \times 16^{\prime \prime}$ dowels in adhesive bond material.
3. Stub Pipes maximum diameter:
$1 / 2$ of a round main line pipe diameter, or $1 / 2$ the height of elliptical main line pipes.
and $6^{\prime \prime}$ centers horizontally. Bend pipe steel to riser
4. Reinforced concrete top required when inlet: manhole or junction box riser is less than 4 feet in diameter; or when $3^{\prime}-6^{\prime \prime}$, alt. b in inlet manhole or junction box riser is used; or when rectangular inlet is used.
5. See Index 425-001 for optional construction joints.
6. Opening by Pipe Manufacturer.


