# Index 430-010 U-Type Concrete Endwalls With Grates - 15" to 30" Pipe

# **ORIGINATION**

Date: May 7, 2018 Name: Rick Jenkins Phone: (850) 414-4355 Email: <u>Rick.Jenkins@dot.state.fl.us</u>

### COMMENTARY

Added Sheets and Reorganized information. Moved Sodding quantities to Index 570-001. Sodding quantities were moved to Index 570-001 to provide the information for sodding around end treatments in a single location.

## COMMENTS AND RESPONSES

BLACK = Industry Review Comments RED = Standard Plans Response

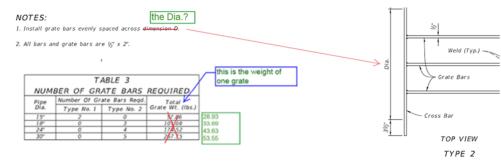
# Name: Erin Yao Date: August 8, 2019

### COMMENT:

Sheet 1:

	TABLE OF CONTENTS:
Sheet	Description
1	General Notes and Contents
2	pinensional and Reinforcing Details
3	Type 1 and Type 2 Grate Details

Sheet 3:



Comment on 430-010: There is an issue with number of bars required per grate AND the number of grates required based on the pipe diameter. Somehow the number of grates per pipe diameter is missing from the new draft index. See Table 3 above. That weight is for the total number of grates per pipe diameter and not the individual grate.

TABLE 2							
DIMENSIONS AND QUANTITIES							
Slope 1:4	Pipe Dia.			Class 1 Conc. (CY)	Reinf. Steel (lbs.)	←	Table 2 is missing number of grates
	15"	5.67	2.38	0.85	56	1	required depending on
	18"	6.67	1.875	1.01	73		the dimension A.
	24ª	8.67	1.875	1.65	97		the differsion A.
	30"	10.67	1.875	2.33	129		

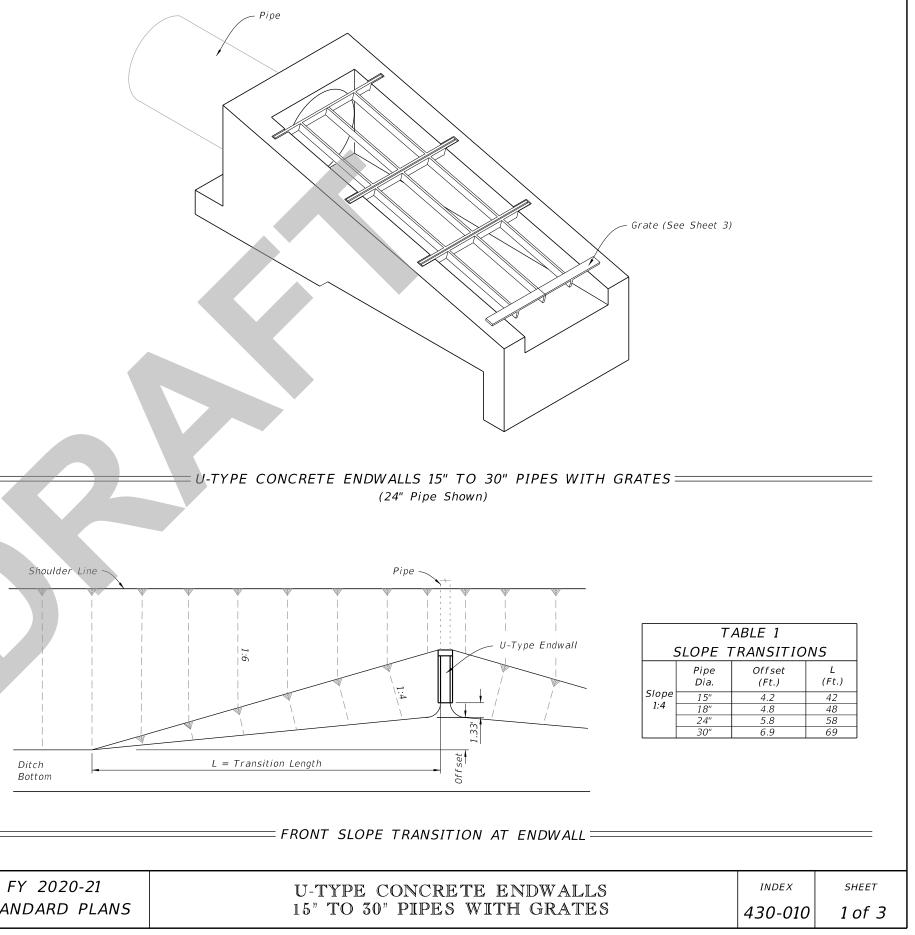
**RESPONSE:** Date August 8, 2019: All comments will be addressed.

#### GENERAL NOTES:

1. Use Class I concrete.

- 2. Reinforcing steel: All bars are size #4. Spacing's shown are center to center. Laps to be 1'-5" minimum. Cover is 2" except as noted. Square welded wire fabric (two cages max.) having an equivalent cross sectional area (0.20 sq. in.) may be substituted for bar reinforcement.
- 3. Endwall may be cast in place or precast concrete. Construct precast units to dimensions shown, or as shown in approved shop drawings. Use Index 425-001 for opening and grouting details.
- 4. Quantities shown are for estimating purposes only.

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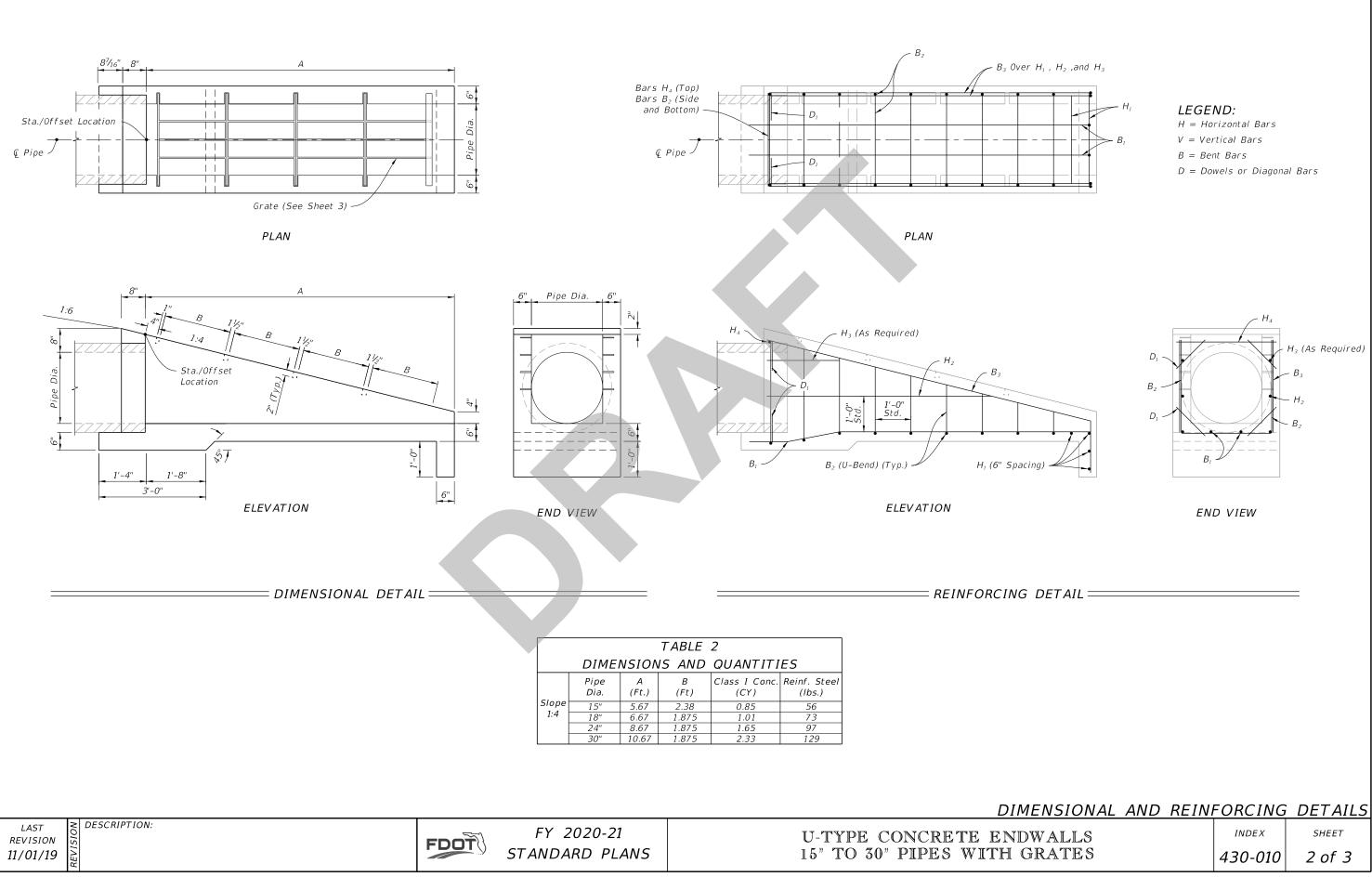


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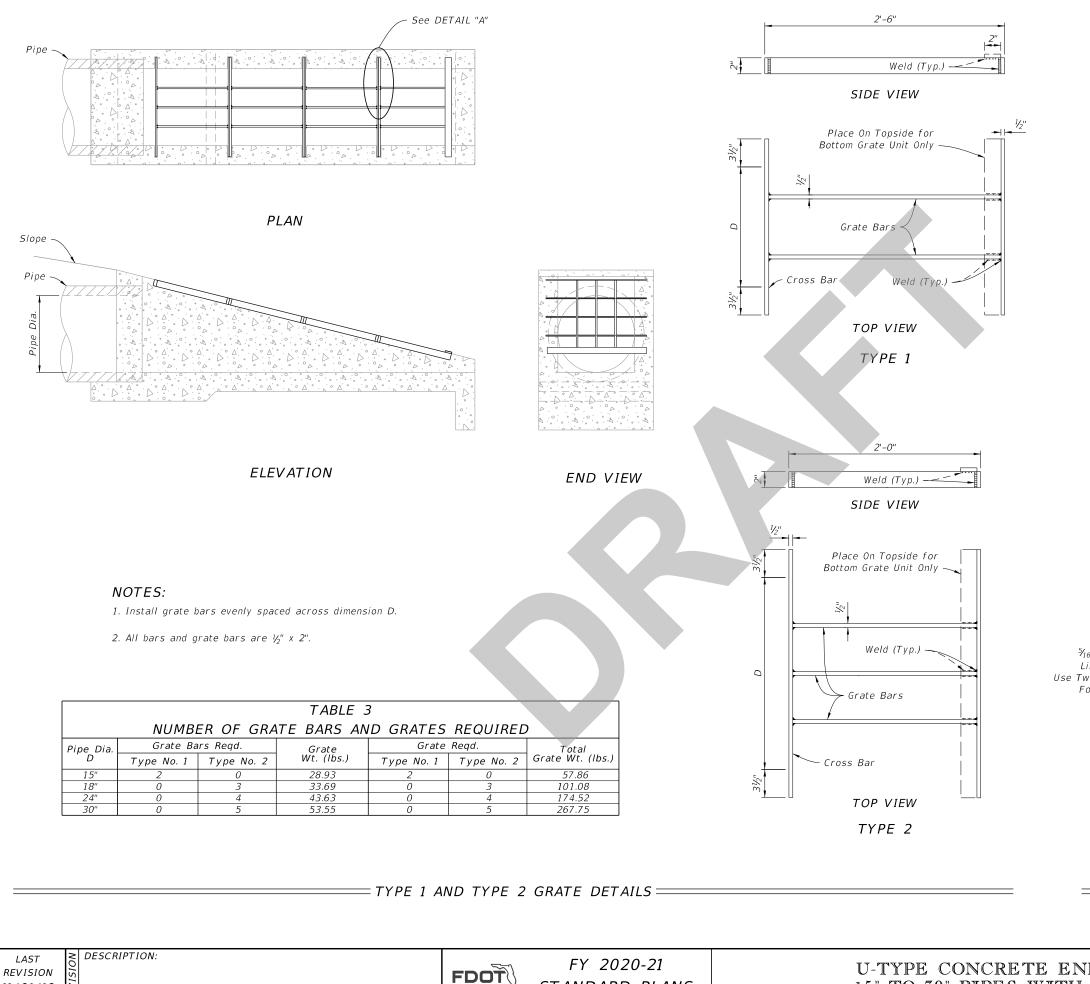
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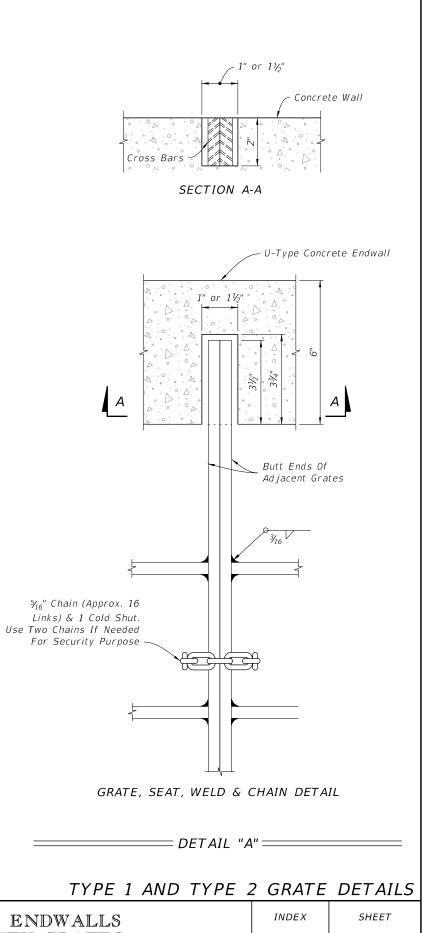


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STANDARD PLANS

U-TYPE CONCRETE ENDWALLS 15" TO 30" PIPES WITH GRATES



430-010

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