

Origination Form
Proposed Revisions to a Standard Plans Index

Originator:	Holley, Tim	Index Number:	425-015
Date:	7/1/2026	Sheet Number(s):	1-2
E-mail:	Tim.Holley@dot.state.fl.us	Index Title:	Manhole Tops

Summary of the changes:

The manhole top and cover information from 425-001 is being moved to a new Index: 425-015.

Commentary/Background:

By creating a new index solely for manholes, the Drainage Structures paragraphs in CADD can be simplified to only call out a single index. This enhances automation of plans for designers.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans	Rick Jenkins	Yes
FDOT Design Manual		No
Standard Specifications	Daniel Strickland	Yes
Basis of Estimates Manual		No
Approved Product List		No
Construction Office	Jason Russell	Yes
Maintenance Office		No

Implementation

["FY-Standard Plans (Next Release)"]

ADDED NEW NOTE 1:
"1. Work this Index with Index 425-001 and Index 425-010."
GENERAL NOTES: Renumbered current Notes.

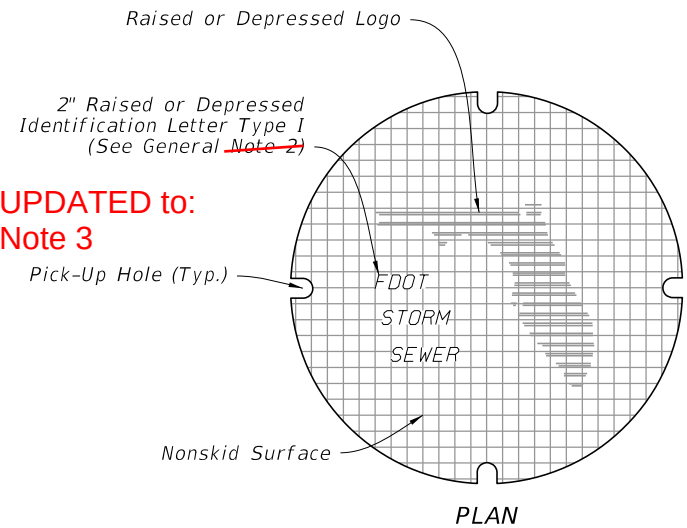
2. ~~1.~~ Use a 1-piece cover, unless the 2-piece cover is called for in the Plans, except at inlets and manholes with sump bottoms. Use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.
3. ~~2.~~ Include "Adjustable" on the cover for Type I manhole adjustable frames.
3. For square or rectangular precast drainage structures, use either deformed or smooth WWR meeting the requirements of Specification 931. WWR must be continuous around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing Splice Details.
4. Lap splice horizontal steel in the walls of rectangular structures in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
5. Welding of splices and lap joints shall be in accordance with the applicable code requirements and restrictions on welds.
6. Rebar straight end embedment shall be in accordance with the applicable code requirements in lieu of ACI standard hooks for top and bottom slabs, except when hooks are specifically called for in the Plans.
7. Precast opening for pipe must be the pipe OD plus 6" (± 2" tolerance). Use mortar to seal the pipe into the opening of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used to seal openings less than 2½" wide.

DELETED NOTES: 3 through 7

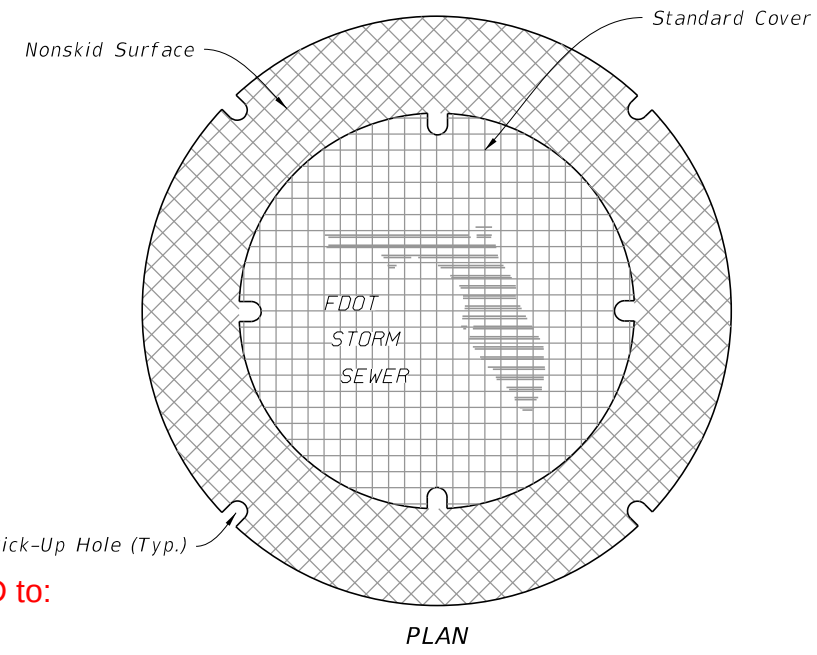
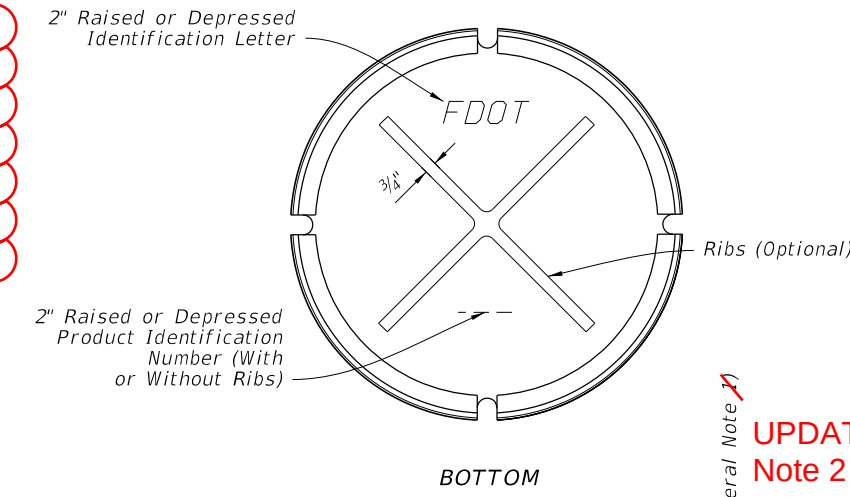
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes, Contents, Manhole Top Overview, and Manhole Covers
2	Manhole Frames and Manhole Tops
3	Inlet Locking Grates, Subgrade and Base Temporary Drains, and Pipe to Structure Geotextile Wrap
4	Drainage Structure Invert, Sump Bottom, Wall Reinforcing Splice Details, and Typical Slab to Wall Details
5	Precast Option and Elevation Details
6	Construction Joints and Minimum Box Riser Segment Dimensions
7	Skewed Pipe in Rectangular Structures
8	Miscellaneous Pipe Connection Details

DELETED SHEETS NOTES: 3 through 8

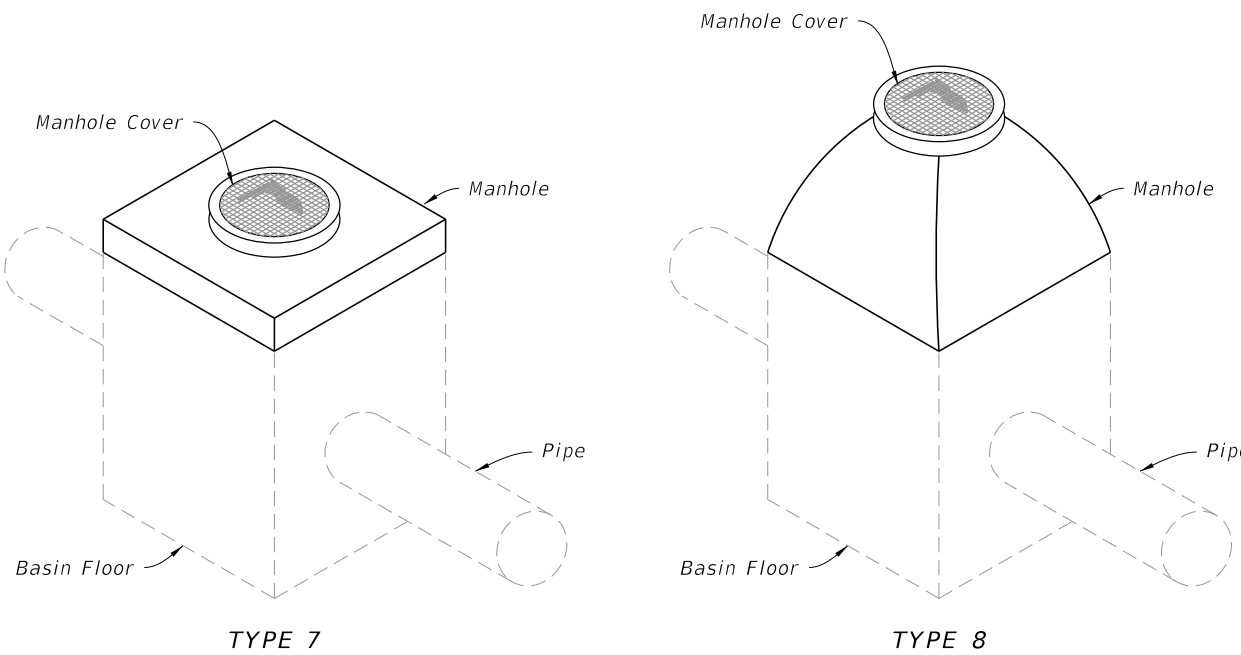
NEW INDEX 425-015



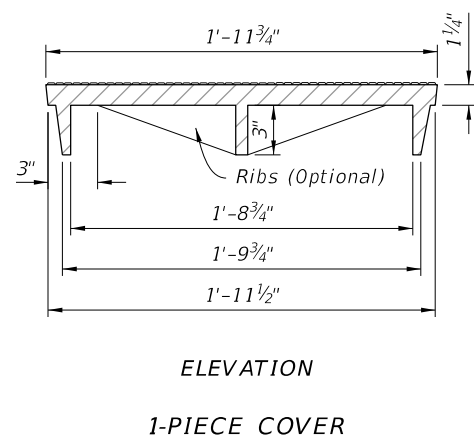
UPDATED to:
Note 3



UPDATED to:
Note 2

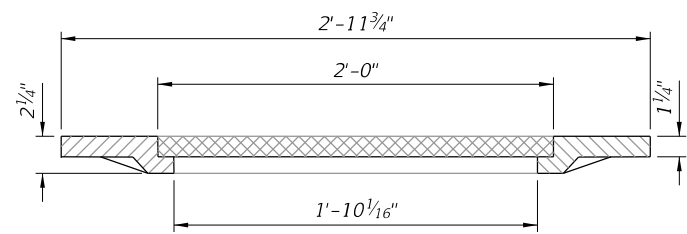


MANHOLE TOPS



ELEVATION

1-PIECE COVER



ELEVATION

2-PIECE COVER

CHANGED SHEET NO. to 2

CHANGED TITLE to: "MANHOLE TOPS"

CHANGED to: 425-015

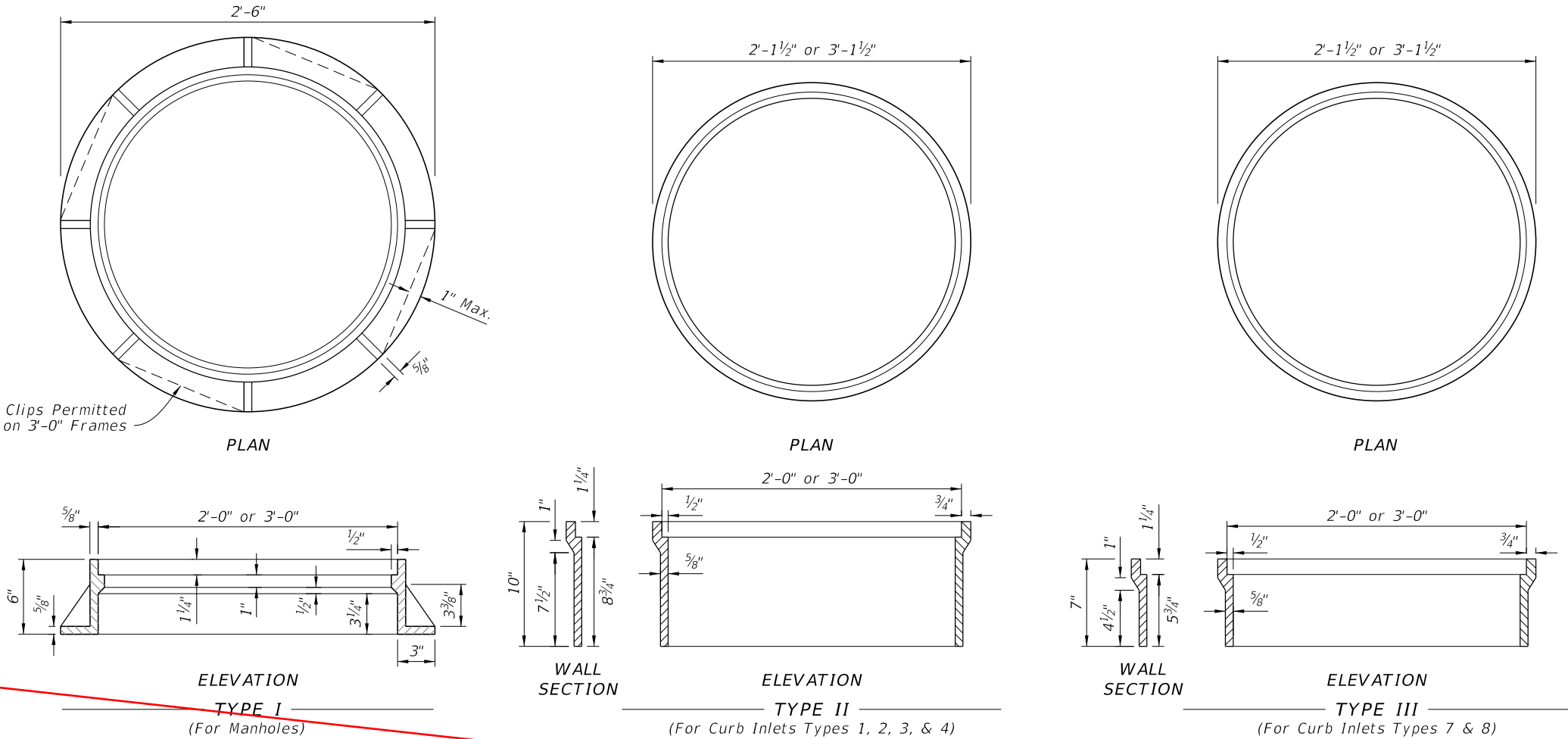
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TABLE 1 WEIGHT OF CASTINGS (lb)						
Frame Type	2'-0" OPENING		3'-0" OPENING			
	Frame	Cover (Std.)	Frame	2-Piece Cover		Total
				Inside	Outside	
I	155	190	220	190	220	410
II	145	190	255	190	220	410
III	90	190	180	190	220	410

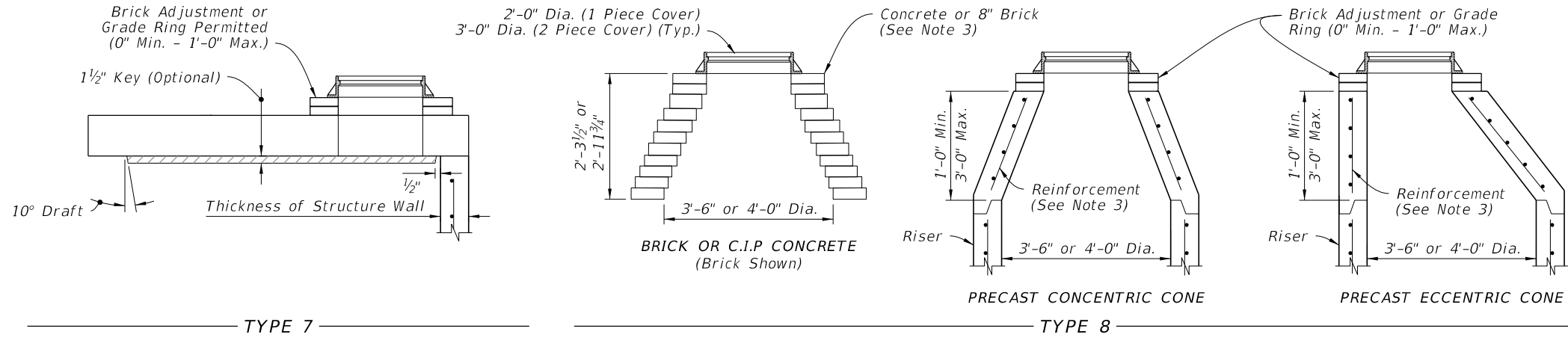
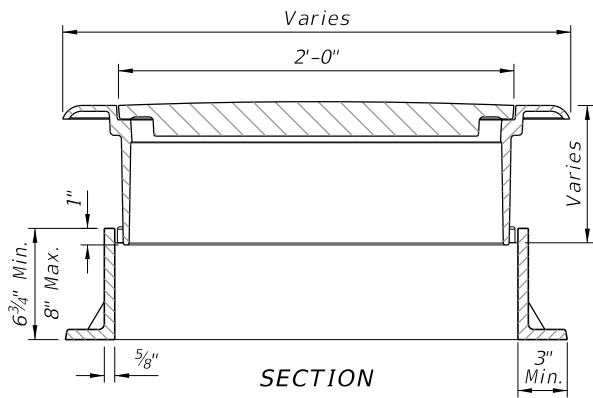
NOTE:
Frame Type I in Table 1, includes Adjustable frames.

NEW INDEX 425-015

CHANGED to:
"MANHOLE RIGID FRAMES"



~~MANHOLE FRAMES~~



NOTES:

1. Use Class II concrete for Manhole top Type 7 slabs.
2. Manhole top Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Omit frame and slab openings when top is used over a junction box.
3. Manhole top Type 8 may be of cast-in-place, precast concrete construction, or brick construction. For concrete construction, use the same concrete and steel reinforcement as the supporting wall unit. An eccentric cone may be used.
4. Use construction joint options, as shown on Sheet 6 to secure manhole tops to structures.
5. Frames may be adjusted to a maximum 12" height with brick or precast ASTM C478 grade rings.
6. Manhole top Type 8 may be substituted for a Type 7, if the minimum dimensions are not reduced.
7. Manhole top Type 7 may be substituted for Type 8, if the minimum thickness (h) above pipe opening cannot be maintained with Type 8.

UPDATED to:
"in Index 425-001"

CHANGED TO;
optional construction joints

CHNAGED SHEET NO. to 2

CHANGED to: 425-015

TYPE I ADJUSTABLE FRAME

MANHOLE TOPS

MANHOLE FRAMES AND MANHOLE TOPS

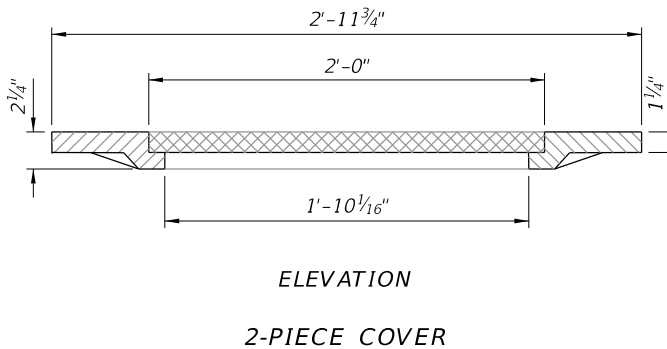
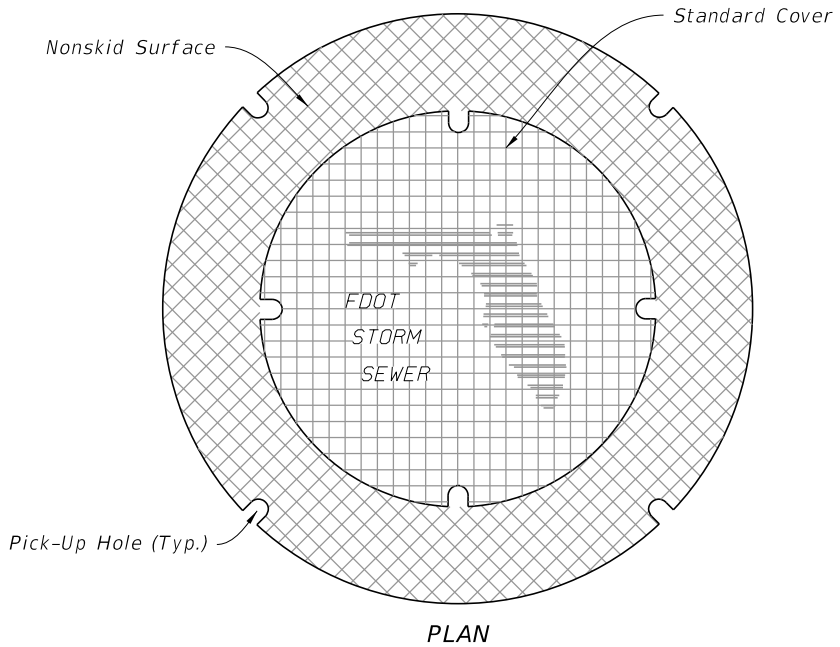
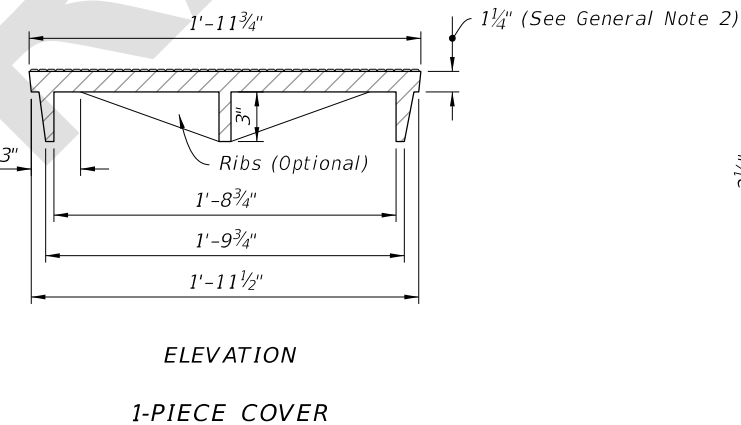
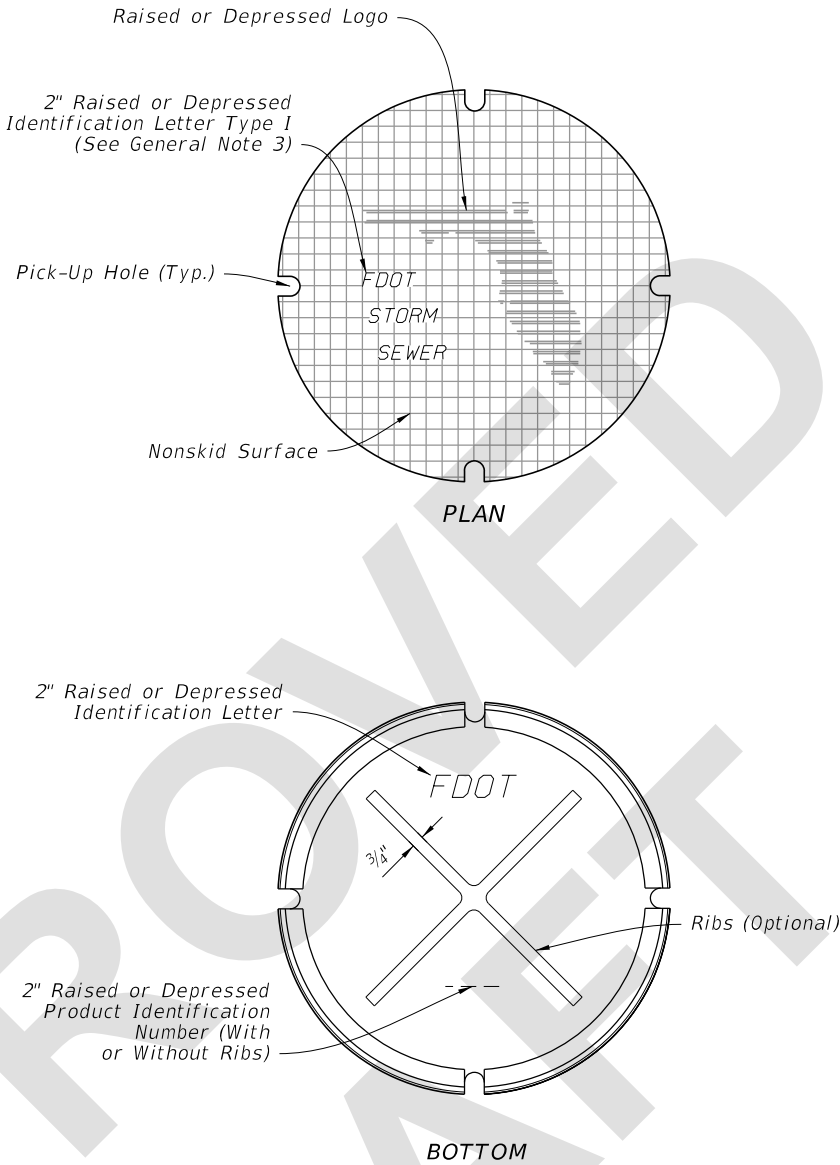
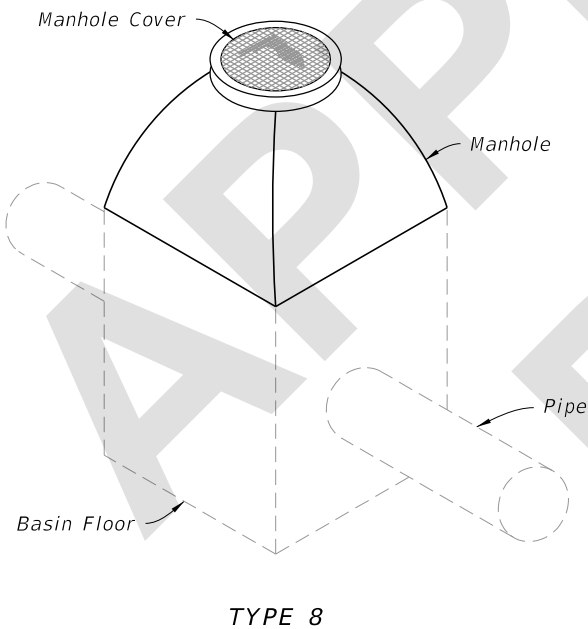
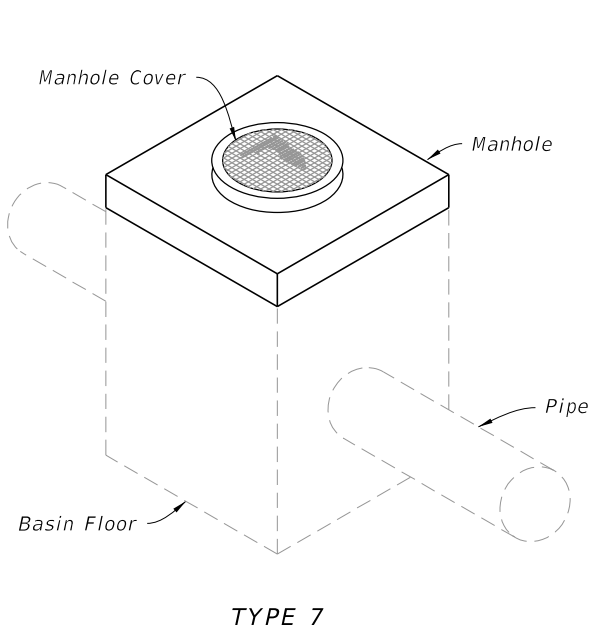
LAST REVISION		DESCRIPTION:		INDEX		SHEET	
11/01/20	11/01/26			425-001		2 of 8	

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GENERAL NOTES:

- 1. Work this Index with Index 425-001 and Index 425-010.
- 2. Use a 1-piece cover, unless the 2-piece cover is called for in the Plans, except at inlets and manholes with sump bottoms. Use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.
- 3. Include "Adjustable" on the cover for Type I manhole adjustable frames.

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MANHOLE TOPS

MANHOLE COVERS

LAST
REVISION
11/01/26

REVISION
DESCRIPTION:



FY 2027-28
STANDARD PLANS

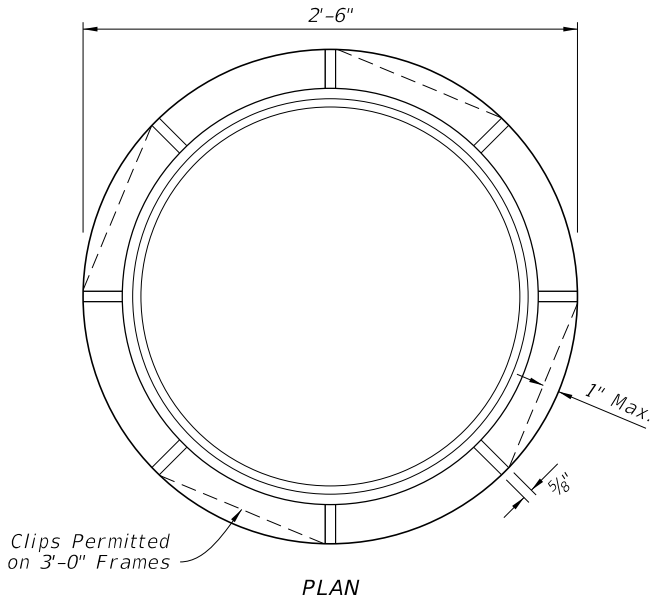
MANHOLE TOPS

INDEX
425-015

SHEET
1 of 2

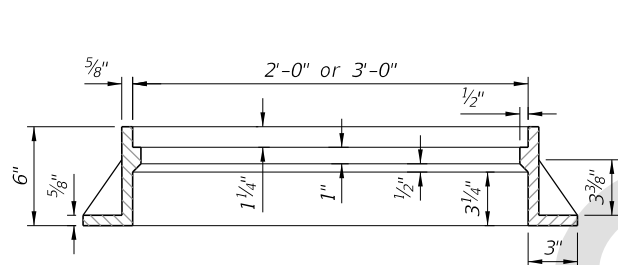
TABLE 1 WEIGHT OF CASTINGS (lb)						
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NOTE:
Frame Type I in Table 1, includes Adjustable frames.



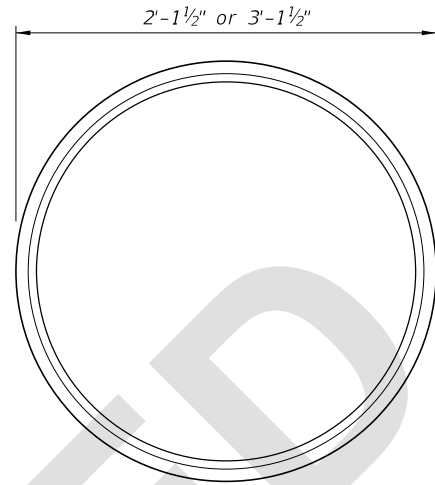
Clips Permitted on 3'-0" Frames

PLAN

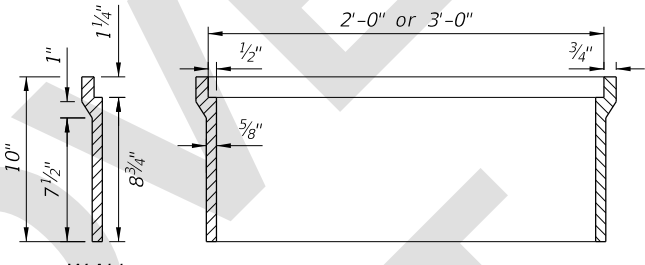


ELEVATION

TYPE I
(For Manholes)

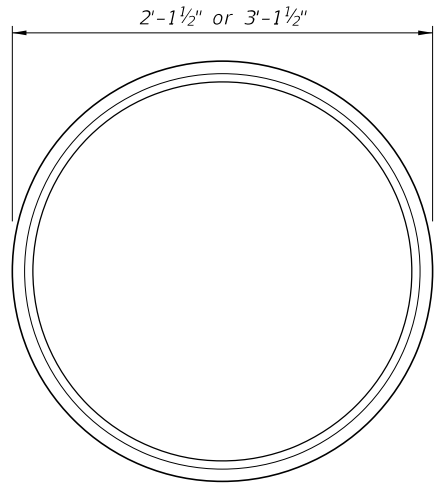


PLAN

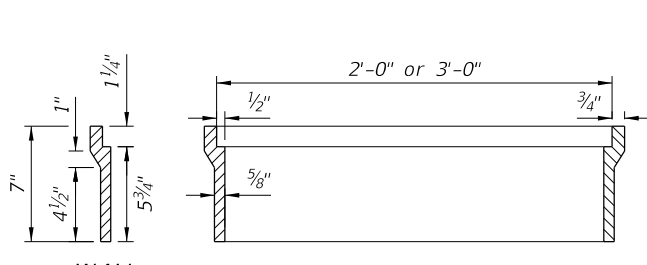


ELEVATION

TYPE II
(For Curb Inlets Types 1, 2, 3, & 4)



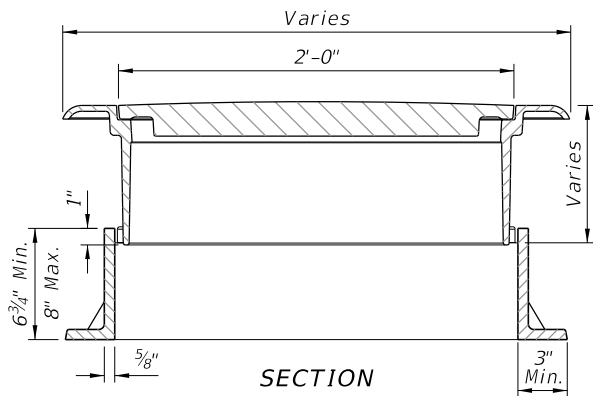
PLAN



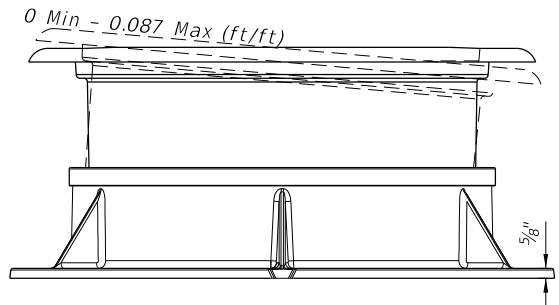
ELEVATION

TYPE III
(For Curb Inlets Types 7 & 8)

MANHOLE RIGID FRAMES

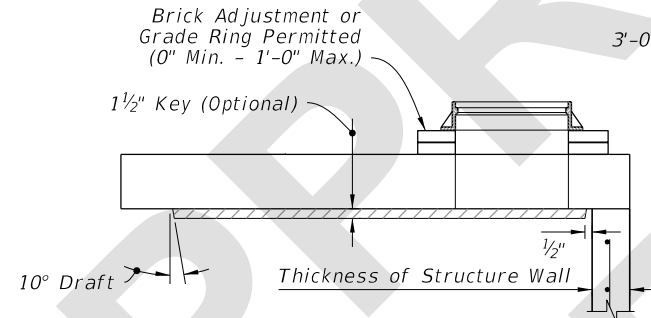


SECTION

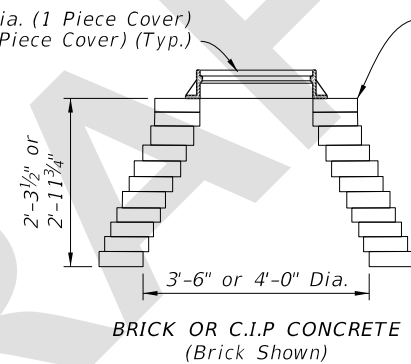


ELEVATION

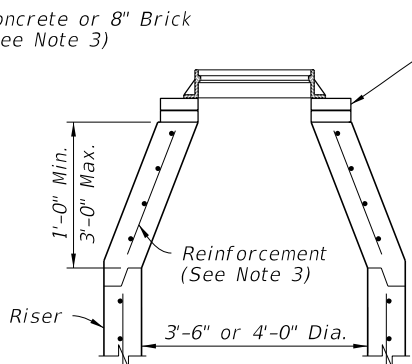
TYPE I ADJUSTABLE FRAME



TYPE 7

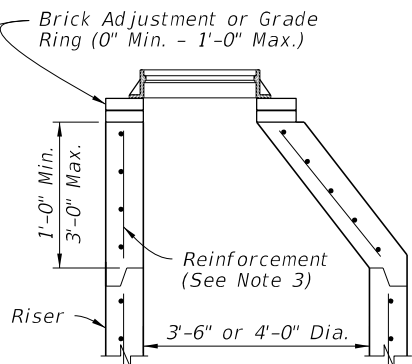


BRICK OR C.I.P CONCRETE
(Brick Shown)



PRECAST CONCENTRIC CONE

TYPE 8



PRECAST ECCENTRIC CONE

NOTES:

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MANHOLE TOPS

MANHOLE FRAMES AND MANHOLE TOPS



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STANDARD PLANS

MANHOLE TOPS

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