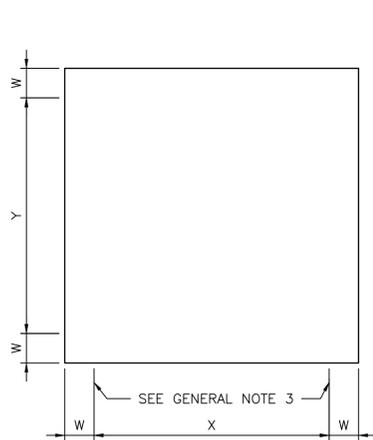
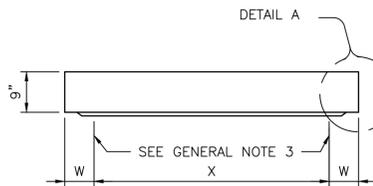


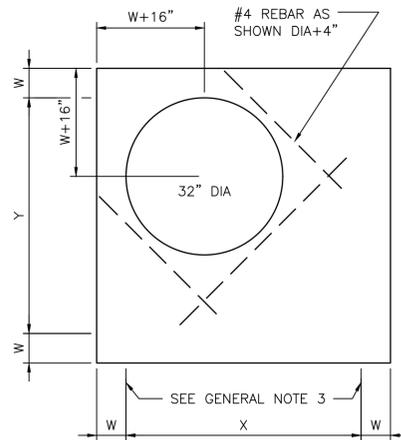
DISCLAIMER: THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THE USE OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



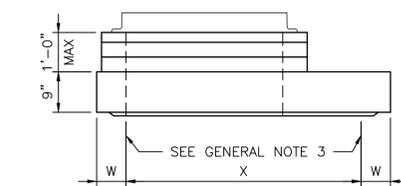
PLAN VIEW



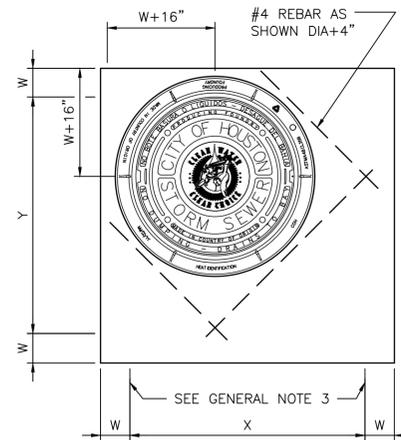
ELEVATION VIEW
STYLE "SL"
NO OPENINGS



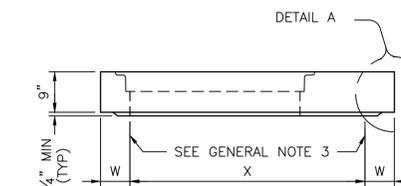
PLAN VIEW



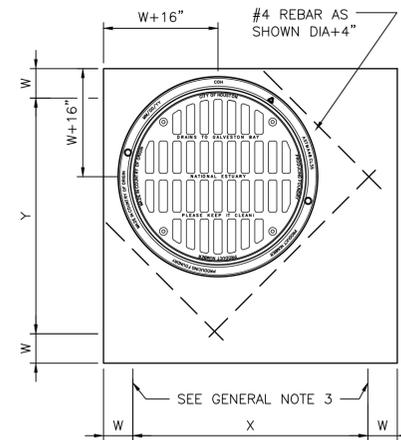
ELEVATION VIEW
STYLE "RH"
SHIP LOOSE RING & COVER



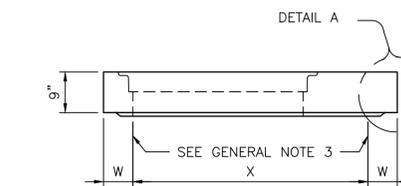
PLAN VIEW



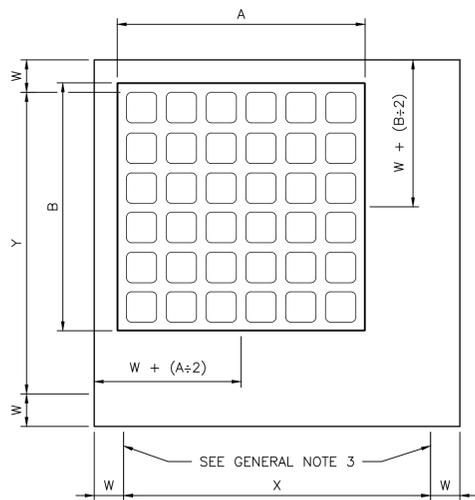
ELEVATION VIEW
STYLE "RC"
32" DIA CAST-IN RING & COVER
(ONLY INVERTED FRAME ORIENTATION IS ALLOWED)



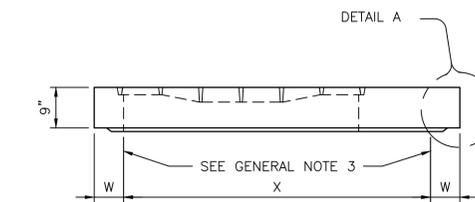
PLAN VIEW



ELEVATION VIEW
STYLE "RG"
32" DIA CAST-IN RING & GRATE
(ONLY INVERTED FRAME ORIENTATION IS ALLOWED)

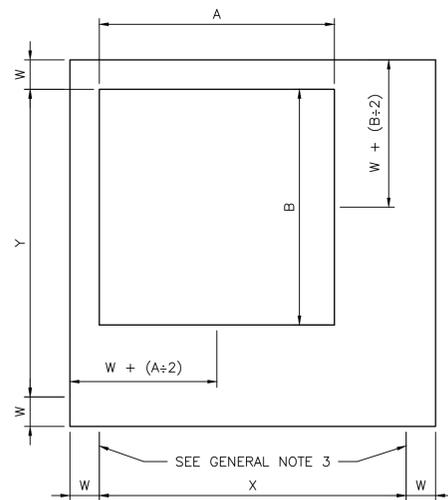


PLAN VIEW

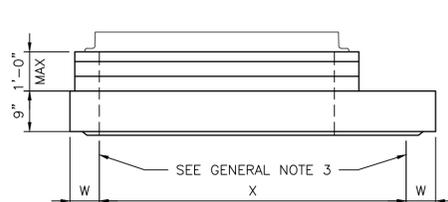


ELEVATION VIEW
STYLE "FG"
CAST-IN FRAME & GRATE

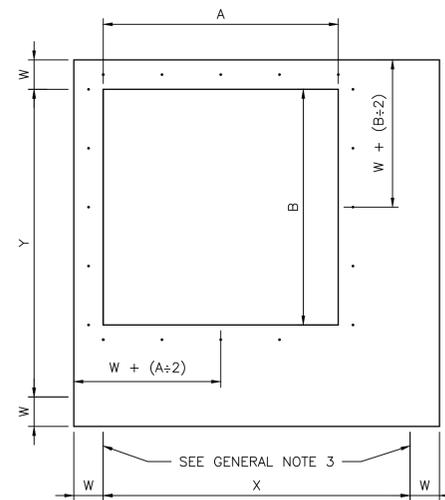
(VERIFY WITH CONCRETE LID MANUFACTURER THAT THE EMBEDDED FRAME IS APPROVED FOR USE WITH CONCRETE LID)



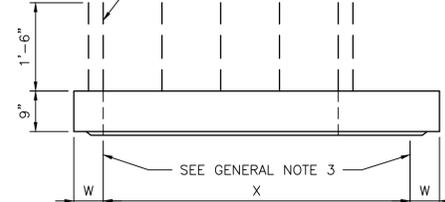
PLAN VIEW



ELEVATION VIEW
STYLE "SH"
SHIP LOOSE FRAME & GRATE

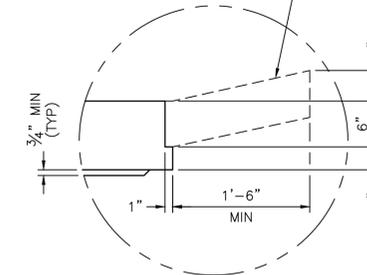


PLAN VIEW



ELEVATION VIEW
STYLE "S1"
EXPOSED REBAR

CONSTRUCT CAST-IN-PLACE REINFORCED CONCRETE APRON, WHEN SHOWN IN PLANS. USE CLASS "A" CONCRETE. APRON IS SUBSIDIARY TO PRECAST SLAB LID APRON IS 1'-6" MIN WIDTH AROUND PRECAST ZONE DRAIN.



DETAIL A

WHEN AN APRON IS TO BE CAST AROUND PRECAST SLAB LID, USE DETAIL ABOVE TO CREATE AN APRON LEDGE ON ALL 4 SIDES.

TABLE-2

STYLE	SIZE (XxY) (FOOT)	WALL THICKNESS OF PRECAST BASE/RISER BELOW LID (SEE GENERAL NOTE 4)		NOMINAL GRATE/COVER SIZE (INCH)
		W (INCH)	AxB (INCH)	
SL*	3x3	6		N/A
RH, RC, RG, SH, S1, FG	3x3	6		30x30** OR 32" DIA
SL*	4x4	6		N/A
RH, RC, RG, SH, S1, FG	4x4	6		30x30** 32" DIA
SH, S1, FG	4x4	6		30x30**
SL*	3x5	6		N/A
RH, RC, RG, SH, S1, FG	3x5	6		30x30** OR 32" DIA
SH, S1, FG	3x5	6		38 1/2 x 16 5/8**
SL*	4x5	6		N/A
RH, RC, RG, SH, S1, FG	4x5	6		30x30** OR 32" DIA
SH, S1, FG	4x5	6		38 1/2 x 16 5/8**
SL*	5x5	6		N/A
RH, RC, RG, SH, S1, FG	5x5	6		30x30** OR 32" DIA
SH, S1, FG	5x5	6		38 1/2 x 16 5/8**
SL*	5x6	6 OR 8		N/A
RH, RC, RG, SH, S1, FG	5x6	6 OR 8		30x30** OR 32" DIA
SH, S1, FG	5x6	6 OR 8		38 1/2 x 16 5/8**
SL*	6x6	6 OR 8		N/A
RH, RC, RG, SH, S1, FG	6x6	6 OR 8		30x30** OR 32" DIA
SH, S1, FG	6x6	6 OR 8		38 1/2 x 16 5/8**
SL*	8x8	8 OR 10		N/A
RH, RC, RG, SH, S1, FG	8x8	8 OR 10		30x30** OR 32" DIA
SH, S1, FG	8x8	8 OR 10		38 1/2 x 16 5/8**

* THE SL STYLE IS INTENDED TO BE PLACED AT FINISHED GRADE, NOT BURIED. THIS STYLE MAY BE USED IN CASES WHERE A GRATE INLET IS NOT PRESENTLY NEEDED, BUT MAY BE NEEDED IN FUTURE.

** SHALL NOT BE USED ON TRAFFIC LANES.

FABRICATION NOTES:

- ONLY ONE PENETRATION IS ALLOWED PER SLAB LID.
- PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
- PROVIDE GRADE 60 REINFORCING STEEL OR EQUIVALENT AREA OF WWR.
- PROVIDE CLEAR COVER OF 3/4" TO REINFORCING STEEL FROM LOWER OUTSIDE SHOULDER OF SLAB FOR STRUCTURAL REINFORCEMENT, AND 2" FROM TOP OF SLAB FOR SHRINKAGE AND TEMPERATURE REINFORCEMENT. PLACE SHORT SPAN REINFORCEMENT CLOSEST TO SURFACE.
- SLABS WITH A THICKNESS OF 8" OR GREATER REQUIRE SHRINKAGE AND TEMPERATURE REINFORCING STEEL. PROVIDE STEEL AREA = 0.11 IN²/FT EACH WAY.
- NO SUBSTITUTION IS ALLOWED FOR #4 BARS AROUND OPENINGS.
- DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON BOTH SHOULDERS. MINIMUM SPIGOT DEPTH IS 3/4".
- PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE CAST IRON SOLID COVER, UNLESS NOTED OTHERWISE ON THE PLANS.

INSTALLATION NOTES:

- PRECAST SLAB LIDS ARE INTENDED FOR DIRECT TRAFFIC AND MAY BE PLACED IN ROADWAY.
- SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUDED NO MORE THAN 1" BETWEEN EACH SECTION, OR 1/2 THE JOINT DEPTH, WHICHEVER IS GREATER.
- DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
- INITIAL INSTALLATION OF GRADE ADJUSTMENT RINGS IS LIMITED TO 1'-0" MAXIMUM AS SHOWN.
- GRADE ADJUSTMENT RINGS MAY BE INCREASED TO 1'-6" MAX WHEN FUTURE CONSTRUCTION AFFECTS FINAL GRADE OF STRUCTURE. MAKE ADJUSTMENTS GREATER THAN 1'-6" WITH ADDITIONAL RISERS. ADJUSTMENTS MAY BE MADE UP TO THE MAX DEPTH OF 25'-0". STRUCTURE MUST BE EVALUATED IF MAX DEPTH WILL BE EXCEEDED.
- ORIENT LONG DIMENSION OF GRATE SLOTS PERPENDICULAR TO TRAFFIC, UNLESS NOTED OTHERWISE ON PLANS.

GENERAL NOTES:

- DESIGNED ACCORDING TO ASTM C913.
- COVER DIMENSIONS ARE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE.
- MATCHES INSIDE FACE OF WALL OF PRECAST BASE OR RISER BELOW INLET.
- SEE COH STD DET 02082-13 FOR CORRESPONDING WALL THICKNESS (W) OF BASE UNIT OR RISER."

APPROVED BY: 18EBB22072F84DC	APPROVED BY: BE403EF0DF454EB
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: MAR-02-2026	DWG NO: 02082-14

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PRECAST CONCRETE
TOP SLAB LID

	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
NOT TO SCALE	