

The diagram illustrates a trench cross-section with the following components and labels:

- FINISH GRADE**: Indicated at the top surface of the trench.
- BACKFILL LAYERS NOT TO EXCEED 12" IN THICKNESS, FROM 1/2 ABOVE PIPE**: A text box pointing to the upper backfill layer above the pipe.
- BACKFILL LAYERS NOT TO EXCEED 6" IN THICKNESS TO 12" ABOVE PIPE, AND KEPT LEVEL ON BOTH SIDES OF PIPE**: A text box pointing to the lower backfill layer directly surrounding the pipe.
- 6" PIPE DIA.**: A dimension line indicating the diameter of the pipe.
- 6"**: A dimension line indicating the thickness of the lower backfill layer on each side of the pipe.
- LIMITS OF TRENCH**: Indicated by vertical lines on the left and right sides of the trench.
- PEARCK FOUNDATION WHERE NEEDED**: A label pointing to a shaded, circular area representing a foundation or bedding for the pipe.
- UNDISTURBED EARTH**: Indicated at the bottom of the trench.
- NOTE:** ALL BACKFILL COMPACTED TO 100% MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY AASHTO T-990.

Diagram illustrating the construction of a manhole structure. The structure consists of a central circular opening (manhole) surrounded by a frame and grate. The frame is supported by a foundation (U.S. Foundation Drawing No. 4155/620, or Engineer's Approved Equal). The structure is built with brick to grade, with 14 courses maximum and 12 courses minimum. The top of the structure is finished with a finished grade. The structure is surrounded by a 3/4" washed rock base. The structure is also surrounded by a 12" x 12" x 1/2" wash rock base. The structure is also surrounded by a 1/4" x 1/2" x 1/2" wash rock base. The structure is also surrounded by a 1/4" x 1/2" x 1/2" wash rock base.

FINISHED GRADE

GROUT AROUND FRAME

FRAME AND GRATE BY U.S. FOUNDATION DRAWING NO. 4155/620, OR ENGINEER'S APPROVED EQUAL

BRICK TO GRADE  
14 COURSES MAX  
12 COURSES MIN

3/4" WASHED ROCK

12" X 12" X 1/2" WASH ROCK

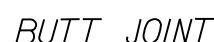
1/4" X 1/2" X 1/2" WASH ROCK

NOTES:

1. SEE CONSTRUCTION PLANS FOR BASIN TYPE & F.D.D.T. ROADWAY AND TRAFFIC DESIGN STANDARDS; LATEST REVISION FOR DETAIL.
2. ALL INLETS TO BE CONSTRUCTED WITH FRAME & GRATE AS SHOWN UNLESS OTHERWISE SPECIFIED IN PLANS.

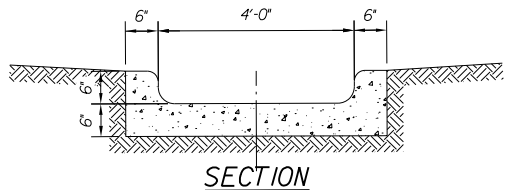
NOTES:

- USE AC OR FCBA CERTIFIED FLATWORK FINISHER
2. REFERENCE ACI 330R-08 GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS
3. REFERENCE ACI 330R-94 STANDARD SPECIFICATION FOR PLAIN CONCRETE PARKING LOTS
4. ALL CONCRETE USED IN PARKING LOT, UNLESS OTHERWISE INDICATED, SHALL HAVE A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS.
5. PREPARE THE SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR RIGID PAVEMENTS. SUBGRADE SOIL DENSITY TESTING MUST BE COMPLETED AND VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
6. IMPORTED SOIL USED FOR BACK FILL SHOULD BE FREE OF HEAVY CLAY, SILTS, STONES, PLANT ROOT OR OTHER FOREIGN MATERIAL GREATER THAN 1/2" IN DIAMETER IN ORDER TO ACHIEVE ADEQUATE COMPACTATION AROUND ANY FIXED OBJECT IN GROUND. ALTERNATE WILL BE TO USE FLOWABLE FILL.
7. CUR CURT CURT JOINTS WILL BE STARTING WITH ANY DRAINAGE INLET WITHIN THE PAVEMENT SECTION AND WORK TOWARD EDGE OF PAVEMENT
8. KEEP ALL JOINTS CONTINUOUS
9. CONTROL JOINTS SHALL BE FORMED OR SAVED WITHIN 4 TO 12 HOURS FROM TIME OF PLACEMENT; MAXIMUM SPACING SHALL BE 1/2 FEET APART
10. CURE CONCRETE IMMEDIATELY AFTER FINISHING OPERATION IS COMPLETED BY USING ONE OF THE FOLLOWING METHODS: WATER, PIGMENTED WATER-BASED CURING COMPOUND OR VISOQUEEN AND BURLAP
11. ALL CONTRACTION & ISOLATION JOINTS EXPECTING VEHICLE TRAFFIC SHALL HAVE THICKENED EDGES.
12. ALL EXPANSION/ISOLATION TYPE JOINTS SHALL USE A SONEBOMER/SONOSILASTIC EXPANSION JOINT FILLER AND SEALANT OR EQUIVALENT. FORMALDEHYDE NEOPRENE RUBBER COMPRESSION SEALS MAY ALSO BE USED.

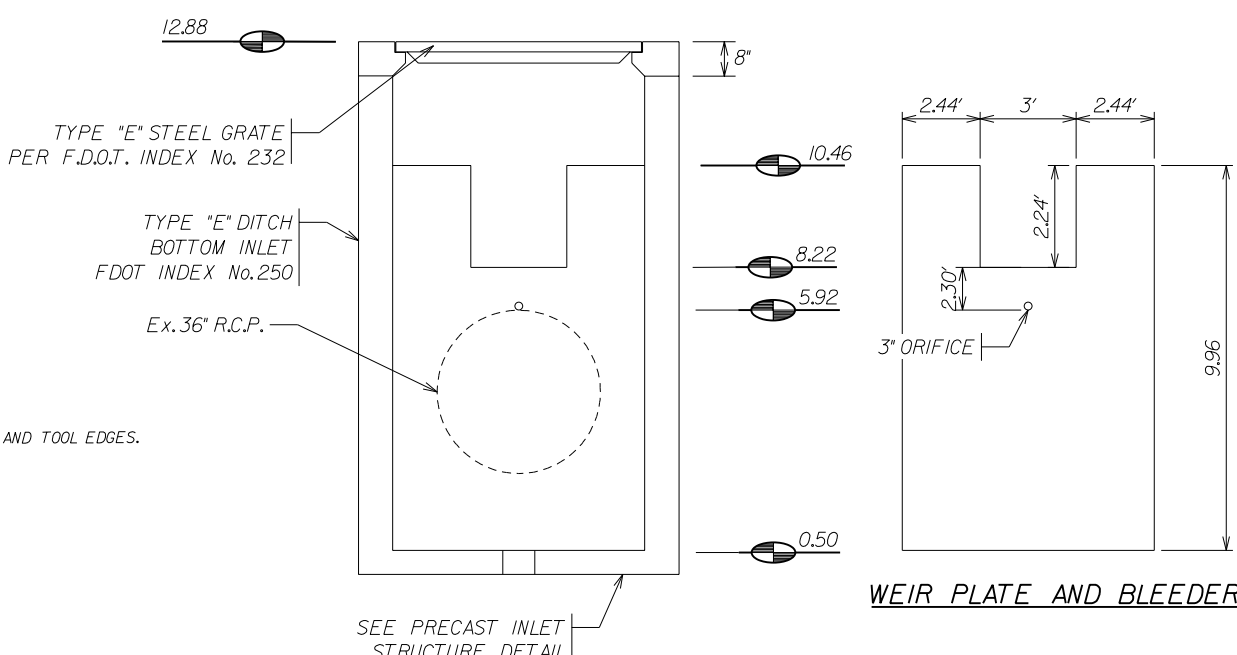
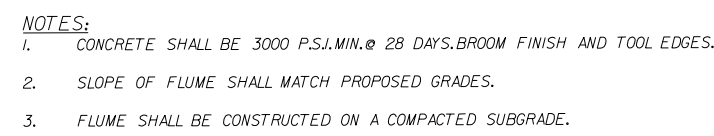


(FOR THINNER PAVEMENTS  
AND SHORT JOINT SPACING)

CONTROL JOINT  
DETAILS

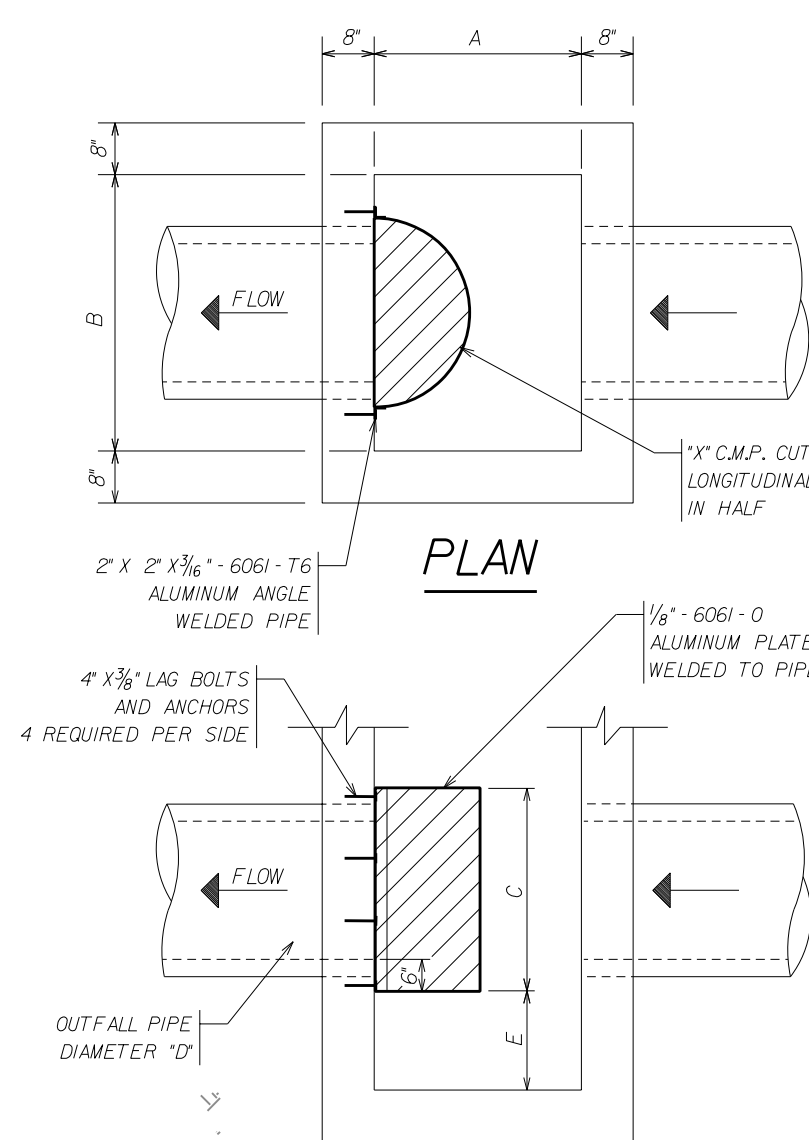


CONCRETE FLUME DETAIL

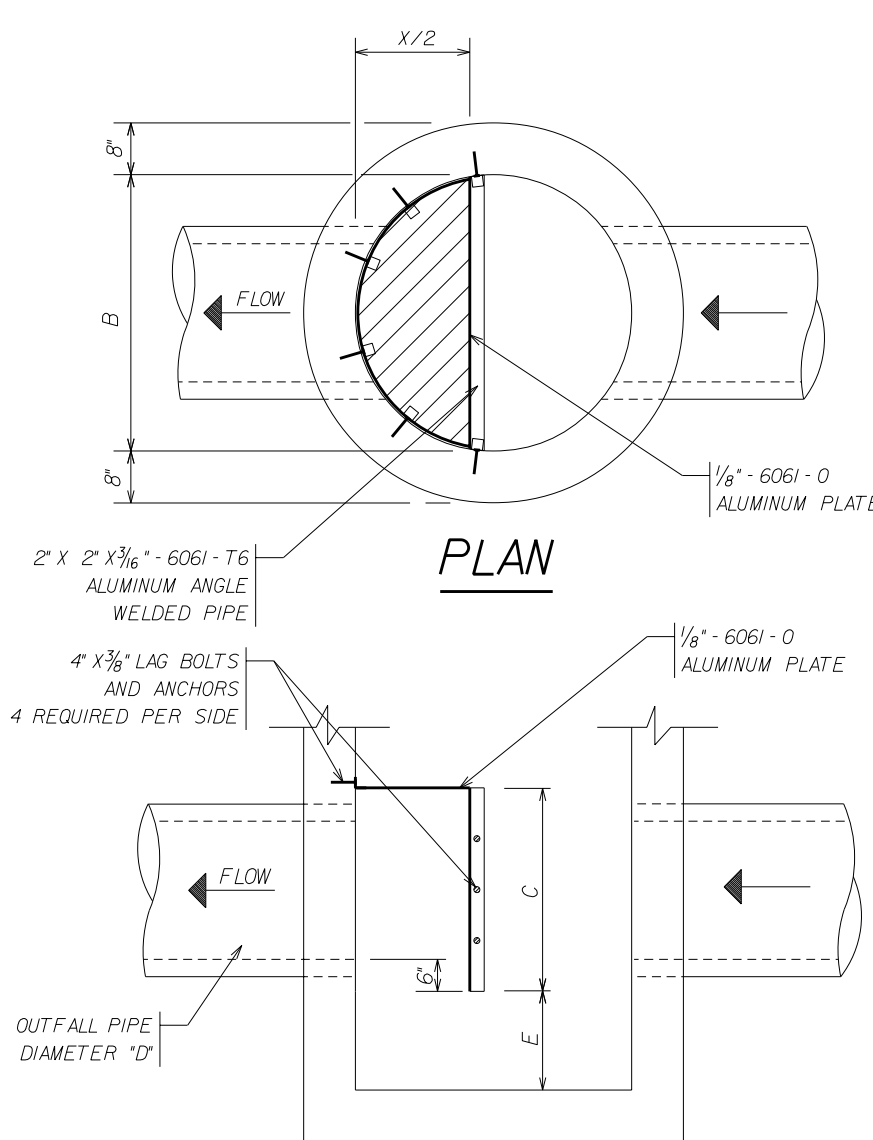


WEIR PLATE AND BLEEDER

### PHASE 2 CONTROL STRUCTURE DETAIL



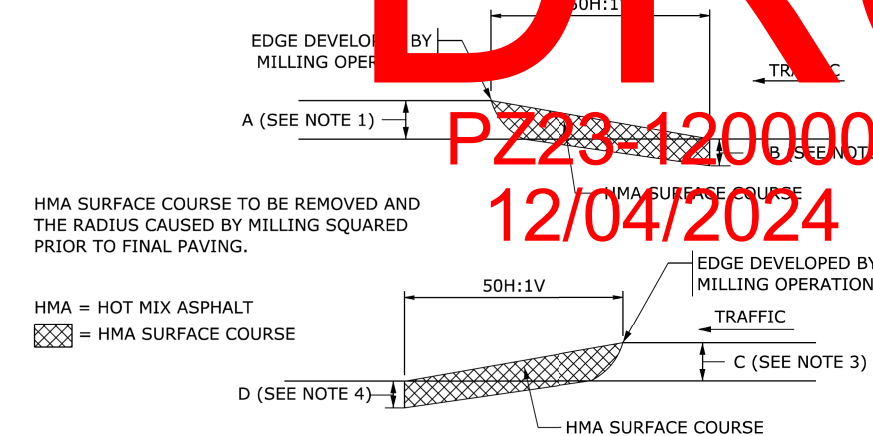
SECTION  
RECTANGULAR STRUCTURE



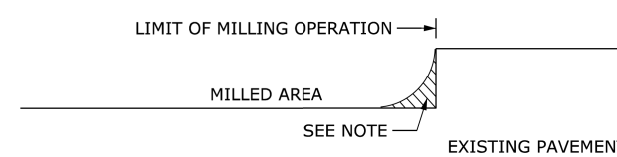
SECTION  
CIRCULAR STRUCTURE

BAFFLE SCHEDULE					
D	A	B	C	E	X
15"	24"	37"	2'-3"	1'-6"	18"
18"	24"	37"	2'-6"	1'-6"	24"
21"	36"	36"	2'-9"	1'-6"	27"
24"	36"	36"	3'-0"	1'-6"	30"
30"	36"	42"	3'-6"	1'-7"	36"
36"	42"	54"	4'-0"	2'-2"	48"
42"	48"	60"	4'-8"	2'-6"	54"
48"	48"	66"	5'-0"	2'-10"	60"

POLLUTION RETARDANT  
BASIN DETAIL



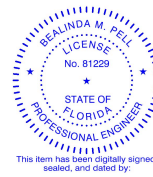
### MILLING TRANSITIONS



**NOTE:**  
REMOVE THE HMA MATERIAL LEFT BY THE DRUM RADIUS AT THE LIMITS OF THE MILLING OPERATION. ENSURE THAT THE FACE IS CLEAN AND VERTICAL BY SAWCUTTING OR TRANSVERSE MILLING. THIS EN TREATMENT IS NOT APPLICABLE TO TEMPORARY LIMITS OF MILLING (I.E., END OF WORKDAY). IT IS APPLICABLE TO ALL AREAS WHERE THE COMPLETED MILLING OPERATION MATCHES ANY

## END TREATMENT FOR MILLING OPERATIONS

- NOTES:**
1. USE HMA SURFACE COURSE IN THE MILLING TRANSITION WHEN LEADING EDGE DEVELOPED BY MILLING OPERATION IS EQUAL TO OR GREATER THAN 1 INCH. NONE REQUIRED\* FOR EDGE LESS THAN 1 INCH.
  2. ENSURE THAT THE THICKNESS OF THE HMA SURFACE COURSE IN THE MILLING TRANSITION IS NOT LESS THAN B. B IS EQUAL TO 2 INCHES OR A, WHICHEVER IS LESS.
  3. USE HMA SURFACE COURSE IN THE MILLING TRANSITION WHEN TRAILING EDGE DEVELOPED BY MILLING OPERATION IS EQUAL TO OR GREATER THAN 1½ INCHES. NONE REQUIRED FOR EDGE LESS THAN 1½ INCHES.
  4. ENSURE THAT THE THICKNESS OF THE HMA SURFACE COURSE IN THE MILLING TRANSITION IS NOT LESS THAN D. D IS EQUAL TO 2 INCHES OR C, WHICHEVER IS LESS




Digitally signed by Bealinda M Pell  
DN: c=US, o=Unaffiliated,  
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6C2580002F48A, cn=Bealinda M  
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Date: 2024.06.19 12:30:10 -04'00'

NOT FOR CONSTRUCTION

## PHASE I - SITE IMPROVEMENT DETAILS

BONSAL POMPANO  
OLDCASTLE COASTAL



				 <b>WINNINGHAM &amp; FRADLEY</b> <b>ENGINEERS - PLANNERS - SURVEYORS</b> <small>171 N.E. 44th STREET, OAKLAND PARK, FL 33334    954-771-7440    FAX: 954-771-0398    <a href="http://www.winfrad.com">www.winfrad.com</a></small>	
		DESIGNED: CJD/GSB    DATE: 08/2018		APPROVED:	
		DRAWN: AMF    DATE: 08/2018			
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NO.	REVISIONS	DATE	PUBLISHED: 6/19/2024,10:41:18 AM	SHEET	SI 4 OF 4