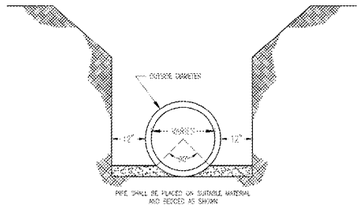
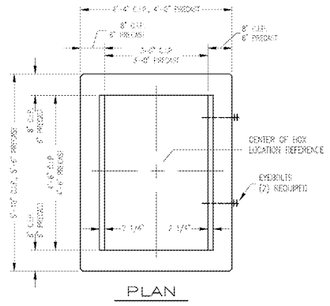
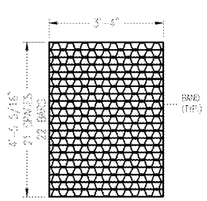


NOTES:
1. A MINIMUM OF 1'-0" FROM OUTSIDE DIAMETER OF PIPE TO SIDE OF TRENCH MUST BE ALLOWED FOR CONSTRUCTION OF THIS TRENCHES. EXCAVATIONS OR TRENCHES SHALL BE ADEQUATELY BRACED/SHORED IN ORDER THAT THE FULL WIDTH AND PIPE SHALL BE PROVIDED IN LAYERS NOT TO EXCEED 6", UNDER NO CIRCUMSTANCE SHALL WATER BE PERMITTED TO RISE ON UNCONSOLIDATED BACKFILL WITHIN THE PIPE ZONE. BOTH PLASTIC COMPACTION REQUIREMENTS SHALL BE ATTAINED TO TOP ONE FOOT MOISTURE TAKING CARE NOT AND CLAY UNDER OR BELOW ALL SHALL BE PLACED LOOSE AND THOROUGHLY COMPACTED WITH SAND.
2. ALL SPECIFIED MATERIAL SHALL HAND AS IN PLACE. COMPACTION REQUIRE OF NOT LESS RECORDED PROCTOR, THE TOP 6" BELOW FINISHED GRADE SHALL BE USED.
3. ALL TRENCHING EXCAVATIONS SHALL MEET OSHA STANDARDS.

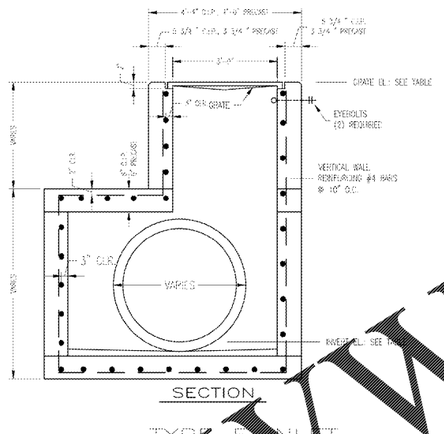
STORMWATER PIPE TRENCH DETAIL
SCALE: N.T.S.



PLAN

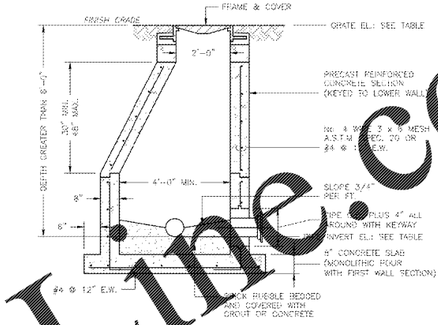


TYPE E STEEL GRATE
STRAIGHT BARS 2"x1/4"
RETICULINE BARS 1 1/4"x3/16"
BANDS 2"x1/4"
APPROXIMATE WEIGHT 215 LBS.



SECTION

TYPE E INLET J [illegible] DETAIL
SCALE: N.T.S.



NOTES:
1. PRECAST CONCRETE TYPE II, 4000 P.S.I.
2. CHIMNEY SEAL AT ALL RISER JOINTS (1/2" THICK WITH WIDTH AT LEAST THE WALL THICKNESS) WITH CIRCUIT ON INSIDE AND OUTSIDE JOINTS. JOINTS SHALL BE SEALED WITH A WATERPROOF NON-SHRINKING GROUT.
3. FLOW CHANNELS SHALL BE CONSTRUCTED TO DIRECT INFLUENT INTO FLOW STREAM.
4. LIFT HOLES ARE PERMITTED.
5. ALL PIPE HOLES SHALL BE PRECAST OR CORE-DRILLED.
6. A O. COLLAR OR APPROVED RUBBER BOOT MUST BE USED WITH P.V.C. PIPE.
7. INSIDE AND OUT. FIRST COAT RUB AND SECOND COAT SCRATCH. SECOND COAT MUS. TO RECEIVE 2 COATS OF KOPPERS BITUMASTIC OR APPROVED EQUAL ON INSIDE TO BE APPLIED AFTER ALL GROUTING, SEALING AND OTHER WORK IS COMPLETED.

TYPICAL MANHOLE DETAIL
SCALE: N.T.S.

STORM WATER STRUCTURE INVERT SUMMARY TABLE

ID	DESCRIPTION	GRATE ELEV.	INVERT #1	INVERT #2	INVERT #3	INVERT OUT
PIPE ROUTE NO. 1						
MH-1	EXISTING MH	88.46	76.74 (N) (36")	83.51 (W) (18")	- - - -	76.67 (SW) (36")
CI-A	**NEW CURB INLET**	88.50	76.61 (N) (36")	82.50 (E) (8")	- - - -	76.61 (S) (36")
CI-B	**NEW CURB INLET**	87.50	76.50 (N) (36")	- - - -	- - - -	76.50 (S) (36")
CI-C	**NEW CURB INLET**	87.20	76.39 (N) (36")	83.10 (W) (18")	- - - -	76.39 (E) (36")
CB-A	**NEW GRATE INLET**	86.50	76.26 (W) (36")	- - - -	- - - -	76.21 (SE) (36")
PIPE ROUTE NO. 2						
CI-1	EXISTING	87.29	84.54 (W) (18")			84.26 (E) (18")
CI-C	**NEW CURB INLET**	87.20	76.39 (N) (36")	83.10 (W) (18")	- - - -	76.39 (E) (36")

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FINAL DESIGN
APPROVED FOR CONSTRUCTION

Revisions:	Date

CONSULTANTS:

ENGINEER-OF-RECORD MICHAEL D. TOOTLE FL P.E. NO. 67818
STATE OF FLORIDA PROFESSIONAL ENGINEER MICHAEL D. TOOTLE No. 67818 FL PE 67818

ARCHITECT/ENGINEERS:
AKEA INC.
3803 NW 98th Street, Suite B
Gainesville, FL 32606
Phone: (352) 474-6124
Fax: (352) 563-4437
CDA: FL #26693
AKEA Project No. 083-14

Drawing Title: STORMWATER UTILITY DETAILS
Approved: Project Director
Project Title: REPLACE BOILERS - FCA D, ENERGY AT THE MALCOM RANDALL VAMC
Location: GAINESVILLE, FLORIDA
Date: MARCH 9, 2018 | Checked: MDT | Drawn: JG
Project Number: 573-14-600
Building Number:
Drawing Number: C510
14 OF 127

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231