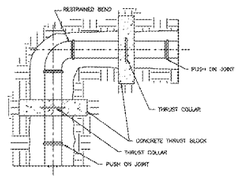
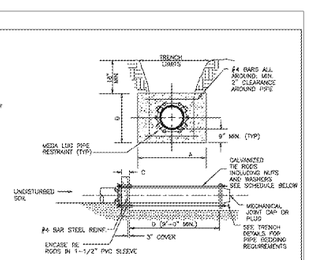


THRUST COLLAR BLOCKING ARRANGEMENT



SCHEDULE OF DIMENSIONS AND MATERIALS. *

PIPE SIZE (INCHES)	DIMENSIONS			TIE RODS REQUIRED		
	A	B	C	D	DIA.	NO.

NOTE: THRUST BLOCK AREAS COMPUTED ON BASIS OF 2,000 LBS. PER SQ. FT. SOIL RESISTANCE BEARING.
* TO BE COMPLETED BY THE ENGINEER

NOTES:

1. ADDITIONAL REINFORCEMENT SHALL BE AS SPECIFIED BY THE ENGINEER, AND APPROVED BY SEMINOLE COUNTY.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 2500 PSI.
3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS AND SPECIFICATIONS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: 150 PSI FOR POTABLE & RECLAIM AND 100 PSI FOR FORCE MAINS.
7. FOR RESTRAINING THE THRUST COLLAR ON PVC PIPE, USE ACCEPTABLE RESTRAINING DEVICES AS DESIGNATED IN SECTION 34 ALONG WITH OTHER REQUIREMENTS ON THIS DRAWING

THRUST COLLARS

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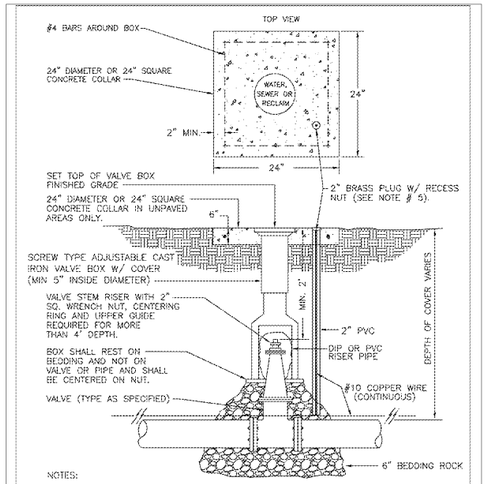

NOTES:

1. VALVE COVER SHALL BE ROUND AND MARKED WATER, SEWER OR RECLAIMED.
2. VALVES SHALL NOT BE LOCATED IN STREET CURBS.
3. VALVE COVERS SHALL BE PAINTED BLUE FOR WATER, GREEN FOR SEWER AND PURPLE FOR RECLAIMED.
4. LOCATOR WIRE ACCESS -- 2" SCHEDULE 80 PVC, FEMALE ADAPTER COUPLING AND 2" BRASS PLUG WITH RECESSED NUT. TERMINATE INSULATED, SOLID 10 GAUGE COPPER LOCATOR WIRES AT TOP WITH 12" OF EXTRA WIRE. INSULATED WIRE SHALL BE COLOR CODED (SEE NOTE #4).

VALVE & VALVE BOX DETAIL

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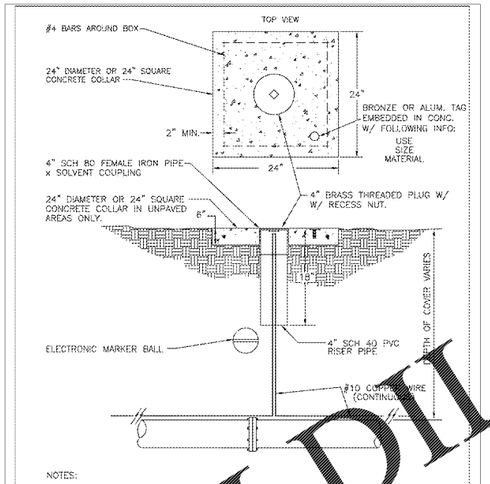

NOTES:

1. LOCATOR WIRE ACCESS -- 4" SCHEDULE 80 PVC, FEMALE ADAPTER COUPLING AND 4" BRASS PLUG WITH RECESSED NUT. TERMINATE INSULATED, SOLID 10 GAUGE COPPER LOCATOR WIRES AT TOP WITH 12" OF EXTRA WIRE. INSULATED WIRE SHALL BE COLOR CODED.
2. TO BE USED IN UNPAVED AREAS ONLY.

LOCATING WIRE TERMINAL

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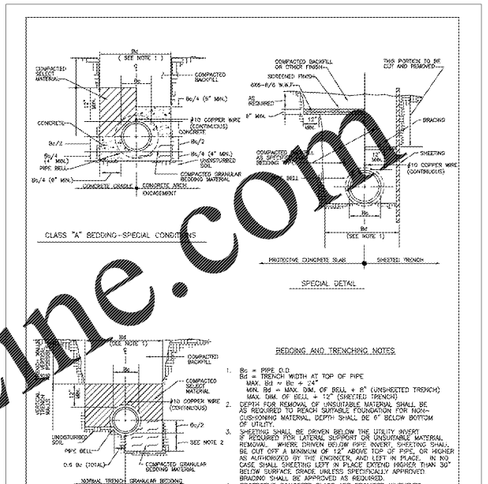

BEDDING AND TRENCHING NOTES

1. Bc = PIPE O.D.
   Bd = TRENCH WIDTH AT TOP OF PIPE
   MIN. Bd = Bc + 24"
   MAX. Bd = MAX. DIM. OF BELL + 6" (UNSHEETED TRENCH)
   MAX. DIM. OF BELL + 12" (SHEETED TRENCH)
2. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL BE AS REQUIRED TO REACH SUITABLE FOUNDATION FOR FOUNDATION BEDDING MATERIAL. DEPTH SHALL BE 6" BELOW BOTTOM OF UTILITY.
3. SHEETING SHALL BE DRIVEN BELOW THE UTILITY INVERT IF REQUIRED FOR LATERAL SUPPORT OR UNSUITABLE MATERIAL REMOVAL. WHERE DRIVEN BELOW PIPE INVERT, SHEETING SHALL BE CUT OFF A MINIMUM OF 12" ABOVE TOP OF PIPE, OR HIGHER AS AUTHORIZED BY THE ENGINEER, AND LEFT IN PLACE. IN NO CASE SHALL SHEETING LEFT IN PLACE EXTEND HIGHER THAN 30" BELOW SURFACE GRADE UNLESS SPECIFICALLY APPROVED BRACING SHALL BE APPROVED AS REQUIRED.
4. PROTECTIVE CONCRETE SLABS ARE REQUIRED WHENEVER DEPTH OF COVER IS LESS THAN 36" AND IF APPROVED BY THE UTILITY.
5. BACKFILL TO BE COMPACTED TO 98% DENSITY OF AASHTO T180 MODIFIED PROCTOR IN AREAS TO BE PAVED AND 95% IN OTHERS.

PIPE BEDDING & TRENCHING DETAILS

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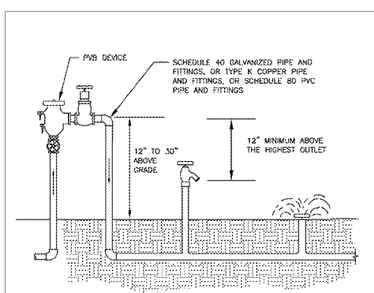

NOTES:

1. PRESSURE VACUUM BREAKER CANNOT BE INSTALLED WHERE THERE CAN BE BACKPRESSURE, ONLY WHERE THERE CAN BE BACKSIPHONAGE.
2. THE PRESSURE VACUUM BREAKER CAN HAVE SHUTOFF VALVES DOWNSTREAM OF THE DEVICE.
3. THE PVB MUST BE INSTALLED AT LEAST 12" ABOVE THE HIGHEST OUTLET OR, IF IT IS FEEDING AN OPEN TANK, AT LEAST 12" ABOVE THE HIGHEST OVERFLOW RIM OF THE TANK.
4. PVB AND PIPING SHALL BE PAINTED WITH A PRIMER SUITED TO BASE MATERIAL AND FINISHED WITH 2 COATS OF FOREST GREEN
5. FOR TYPICAL RESIDENTIAL IRRIGATION SYSTEMS, THE BACKFLOW PREVENTER MAY BE INSTALLED ANYWHERE BETWEEN THE IRRIGATION METER AND THE HOUSE, BUT SHALL BE DOWNSTREAM OF ANY OUTLETS AND SHALL MEET ALL OTHER INSTALLATION REQUIREMENTS.
6. METER SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB WHERE APPLICABLE. METER SHALL IF BE INSTALLED UNDER CONCRETE OR ANY TYPE OF PAVEMENT.

PRESSURE VACUUM BREAKER
IRRIGATION SYSTEM INSTALLATION EXAMPLE

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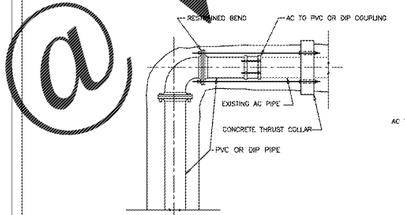
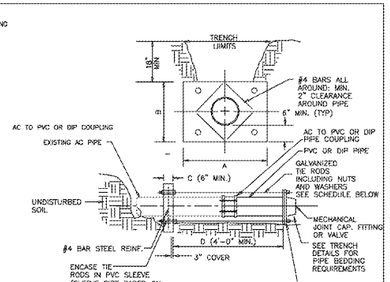


THRUST COLLAR BLOCKING ARRANGEMENT



SCHEDULE OF DIMENSIONS AND MATERIALS. *

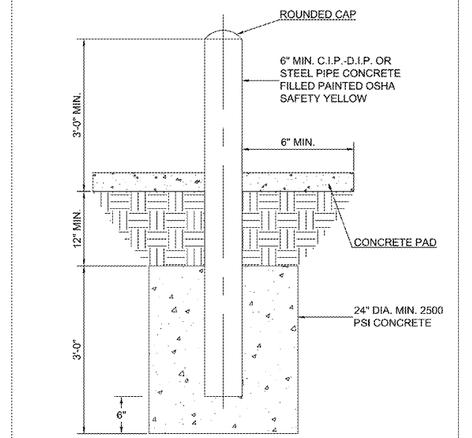
PIPE SIZE (INCHES)	DIMENSIONS			TIE RODS REQUIRED		
	A	B	C	D	DIA.	NO.

NOTE: THRUST BLOCK AREAS COMPUTED ON BASIS OF _____ LBS. PER SQ. FT. SOIL RESISTANCE BEARING (1,500 MIN.)
* TO BE COMPLETED BY THE ENGINEER

NOTES:

1. ADDITIONAL REINFORCEMENT SHALL BE AS SPECIFIED BY THE ENGINEER, AND APPROVED BY SEMINOLE COUNTY.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 2500 PSI.
3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS AND SPECIFICATIONS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: _____PSI. *
7. FOR RESTRAINING THE THRUST COLLAR ON PVC PIPE, USE

THRUST COLLARS ON ASBESTOS CEMENT PIPE



BOLLARD DETAIL
N.T.S.

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WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
CHRISTOPHER J. HOLLEN, P.E.
FLORIDA LICENSE NUMBER
74685
DATE:

K+A PROJECT 147654001
DATE 10/22/19
SCALE AS SHOWN
DESIGNED BY DFD
DRAWN BY DFD
CHECKED BY CJH

SEMINOLE COUNTY DETAILS

PUBLIC STORAGE APOPKA
2431 S. ORANGE BLOSSOM TRAIL
SEMINOLE COUNTY
FLORIDA

Public Storage

SHEET NUMBER
C-501

Plotted By:Anderson, Sarah Sheet Set:14765400I – Seminole Public Storage Layout:C-501 SEMINOLE COUNTY DETAILS – 14765400I June 11, 2020 06:28:32pm K:\ORB_LDE\14765400I – Public Storage – Seminole County\CAD\PlanSheets\C-500 SEMINOLE COUNTY DETAILS – 14765400I.dwg
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