

SEMINOLE MANOR FORCEMAIN MODIFICATION

PREPARED FOR
PALM BEACH COUNTY, FLORIDA
CITY OF LAKE WORTH
JUNE 2014



VICINITY MAP
N.T.S.

SECTION 42, TOWNSHIP 44 SOUTH, RANGE 43 EAST



CITY COMMISSION

PAM TRIOLO, MAYOR
SCOTT MAXWELL, VICE MAYOR
CHRISTOPHER MCVOY
ANDY AMOROSO
JOHN SZERDI

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
C0-1	COVER SHEET
C1-1	PLAN SHEET
C5-1	DETAILS
TOTAL NO. OF SHEETS - 3	

PLOT DATE: Jun 24, 2014 - 2:30pm XREFS: IMAGES: I:\REF: DAT\FPC\2013\2013 Block SIDA\Area 2.dwg

BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING
ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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NO.	DATE	BY	REVISION

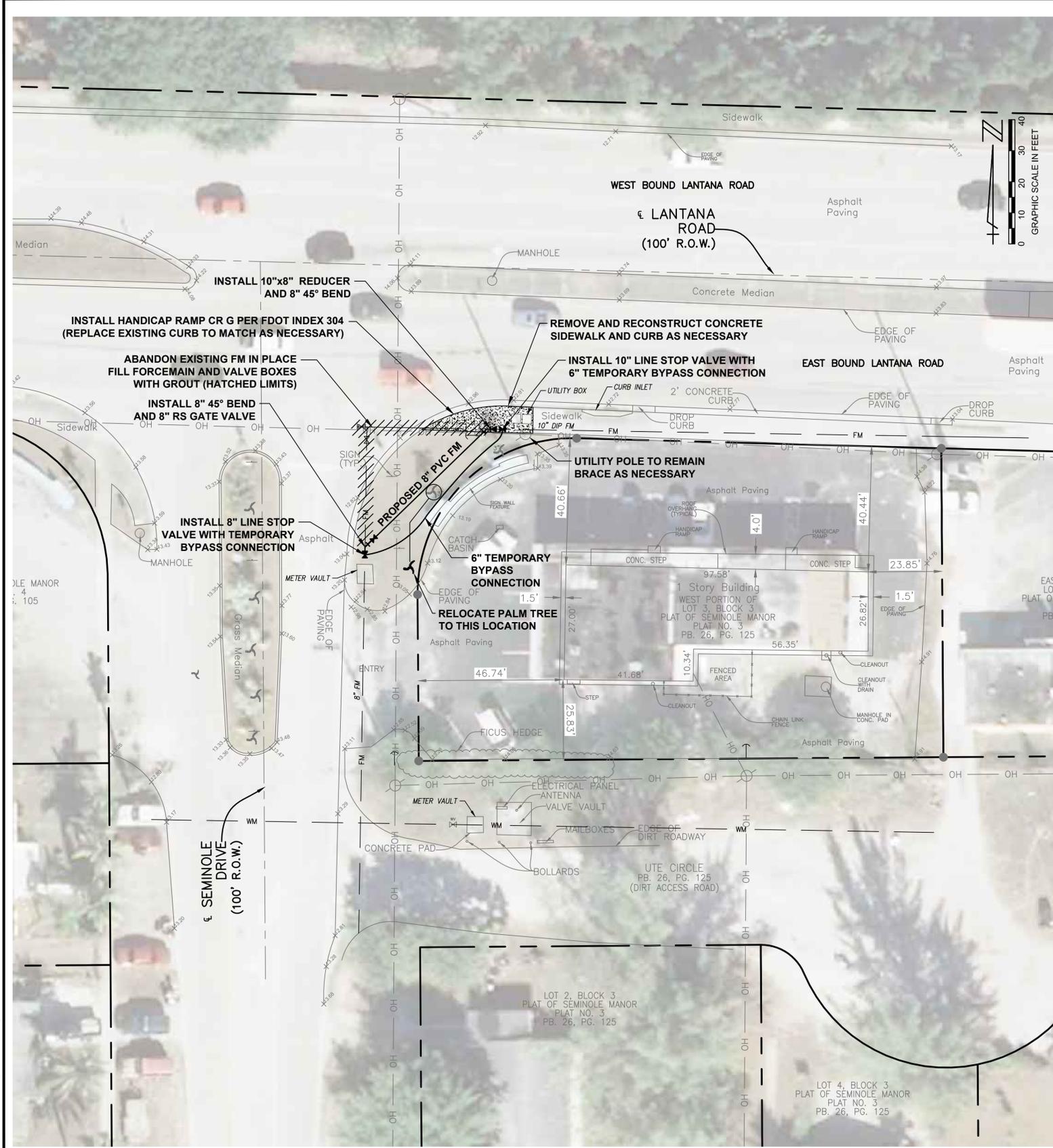
SEAL
JOHN R. LEEMON FLORIDA P.E. NO. 41645
DATE

FLORIDA E.B. NO. 48	MOCK • ROOS ENGINEERS • SURVEYORS • PLANNERS	FLORIDA L.B. NO. 48
5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, Fax 478-7248		

FIELD: ---
DRAWN: SMH/YM
DESIGN: JRL
APPR: JRL
SCALE: AS SHOWN

SEMINOLE MANOR
FORCEMAIN MODIFICATION
PALM BEACH COUNTY, FLORIDA
CITY OF LAKE WORTH

DATE:	JUNE 2014
P.A. NO.	B3055.00
DWG. NO.	44-43-42-01
SHEET:	C0-1



GENERAL NOTES

- SEE SURVEY NOTES FOR HORIZONTAL AND VERTICAL DATUM INFORMATION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY OF LAKE WORTH SUBDIVISION REGULATIONS.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY; THE EXACT LOCATIONS SHALL BE DETERMINED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IF "OTHER" UTILITIES NOT SHOWN ON THE DRAWINGS EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS, AS REQUIRED.
- RESTRAIN ALL PIPE JOINTS WITH MEGA-LUG JOINT RESTRAINTS.
- SEAL ALL OPEN PIPE ENDS WITH NON-SHRINK GROUT.
- ALL EXISTING ROADWAYS, SIDEWALKS, CURBS, OPEN AREAS, WALKS, FENCING, SOD, ETC. SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.
- CONTRACTOR SHALL PROTECT EXISTING TREES AND SHRUBS DURING CONSTRUCTION ACTIVITIES.
- LOCAL TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO PALM BEACH COUNTY TRAFFIC DIVISION AT LEAST TWO WEEKS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL NOT DISTURB LANTANA ROAD DURING CONSTRUCTION. ANY PORTION OF THIS ROADWAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR PER PALM BEACH COUNTY STANDARDS WITH NO ADDITIONAL COST TO THE OWNER.
- THE MAX ALLOWABLE LONGITUDINAL SLOPE OF THE SIDEWALK TRANSITIONS AND RAMPS SHALL BE 1 FOOT VERTICAL TO 12 FOOT HORIZONTAL. THE MAXIMUM CROSS SLOPE OF THE SIDEWALK, TRANSITIONS, AND RAMPS SHALL NOT EXCEED 2%.
- CONTRACTOR IS TO FIELD LOCATE THE JOINT OR SAWCUT THE EXISTING SIDEWALK TO PROVIDE A PERPENDICULAR JOINT AT A FULL WIDTH SECTION OF THE EXISTING SIDEWALK
- SANITARY SEWER SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE. COORDINATE ALL SHUT DOWNS WITH CITY OF LAKE WORTH UTILITY STAFF. PROVIDE VACTOR TRUCK AS NECESSARY.
- SUNSHINE STATE ONE CALL (800-852-8057) SHALL BE CALLED FOR LOCATES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED USING GREEN AS A PREDOMINANT COLOR. PIPE WILL BE SOLID-WALL GREEN PIPE OR STRIPED WITH 2" WIDE BANDS. PIPE WITH STRIPES SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE.
- CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ANY NPDES REQUIREMENTS THROUGH FINAL COMPLETION.
- AERIAL OBTAINED FROM PALM BEACH COUNTY GIS, DATED 2013.

SURVEYORS NOTES
(M.B. SCHORAH & ASSOCIATES)

- THIS IS A SPECIFIC PURPOSE SURVEY OF A PORTION OF LOT 3, BLOCK 3, PLAT NO. 3, SEMINOLE MANOR, AS RECORDED IN PLAT BOOK 26, PAGE 125, PALM BEACH COUNTY PUBLIC RECORDS.
- NO LEGAL DESCRIPTION WAS PROVIDED TO THIS OFFICE.
- NO SEARCH OF THE PUBLIC RECORDS WAS MADE BY THIS OFFICE.
- NO BELOW GROUND UTILITIES OR SUB-SURFACE ENCROACHMENTS WERE LOCATED BY THIS OFFICE.
- BEARINGS ARE ASSUMED AND BASED ON THE NORTH LINE OF LOT 3, BLOCK 3, PLAT NO. 3, SEMINOLE MANOR. ASSUMED BEARING ALONG SAID LINE BEING ALL BEARINGS ARE RELATIVE THERETO.
- GEOMETRY OF THE SUBJECT PARCEL IS BASED UPON PARCEL BOUNDARY DATA PER PALM BEACH COUNTY GIS MAP DATA.
- ELEVATIONS HEREON ARE N.G.V.D. 29 DATUM BASED UPON PALM BEACH COUNTY PUBLISHED DATUM.

LEGEND

ABBREVIATIONS

- P.O.C. = POINT OF COMMENCEMENT
- P.O.B. = POINT OF BEGINNING
- P.R.M. = PERMANENT REFERENCE MONUMENT
- P.C.P. = PERMANENT CONTROL POINT
- C.M. = CONCRETE MONUMENT
- R/W = RIGHT-OF-WAY
- P.B. = PLAT BOOK
- O.R.B. = OFFICIAL RECORD BOOK
- D.B. = DEED BOOK
- R.P.B. = ROAD PLAT BOOK
- PG.(S) = PAGE(S)
- P.B.C.R. = PALM BEACH COUNTY RECORDS
- R = RADIUS
- Δ = CURVE CENTRAL ANGLE
- L = ARC LENGTH
- (G.) = GRID
- P. = PLAT
- D. = DESCRIPTION
- C. = CALCULATED
- M. = MEASURED
- C. & M. = CALCULATED AND MEASURED
- P. & M. = PLAT AND MEASURED
- EL. = ELEVATION
- TRANS = TRANSFORMER
- LP = LIGHT POLE
- FH = FIRE HYDRANT
- W.M. = WATER METER
- C.B. = CATCH BASIN
- S.M.H. = STORM MANHOLE
- FPL = FLORIDA POWER AND LIGHT COMPANY
- P.B.C. = PALM BEACH COUNTY
- L.A.E. = LIMITED ACCESS EASEMENT
- U.E. = UTILITY EASEMENT
- CONC. = CONCRETE
- ASPH. = ASPHALT
- FD. = FOUND
- I.R. & C. = IRON ROD & CAP
- I.R. = IRON ROD (NO NUMBER)
- I.P. = IRON PIPE (NO NUMBER)
- PROP. = PROPOSED
- U.E. = UTILITY EASEMENT
- D.E. = DRAINAGE EASEMENT
- E.P. = EDGE OF PAVING
- L.A.E. = LIMITED ACCESS EASEMENT
- M.E. = MAINTENANCE EASEMENT
- T.O.B. = TOP OF BANK
- E.O.W. = EDGE OF WATER
- CP = CABBAGE PALM
- GWAP = GUY WIRE ANCHOR POINT

SYMBOLS

- ☐ = CENTERLINE
- ℙ = PROPERTY LINE
- ⊙ = SANITARY SEWER MANHOLE
- ⊕ = STORM MANHOLE
- ⊙ = GAS SERVICE
- ⊙ = GREASE TRAP MANHOLE
- ⊙ = CABLE RISER
- ⊙ = FOUND BOUNDARY CORNER AS SHOWN
- = SET 1/2" I.R. & C. STAMPED MBSA LB2438
- ⊙ = FOUND NAIL OR NAIL AND DISK AS SHOWN
- ⊙ = SOUTHERN BELL MANHOLE
- ⊙ = CATCH BASIN
- ⊙ = FIRE HYDRANT
- ⊙ = GATE VALVE
- ⊙ = GUY ANCHOR
- ⊙ = CONCRETE POWER POLE
- ⊙ = WOOD POWER POLE
- ⊙ = LIGHT POLE
- ⊙ = GROUND LIGHT
- ⊙ = WATER METER
- ⊙ = FENCE AS SHOWN
- OH — = OVERHEAD POWER LINE
- ⊙ = HANDICAP PARKING
- ⊙ = ATT RISER
- ⊙ = ELECTRIC SERVICE BOX
- ⊙ = EXISTING ELEVATION

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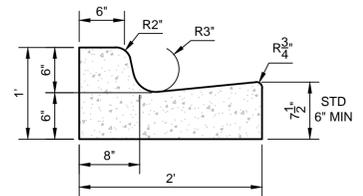
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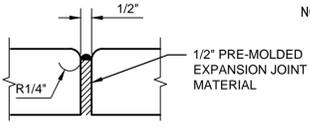
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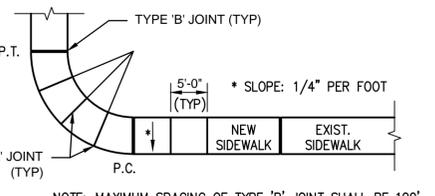
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TYPE 'A' JOINT

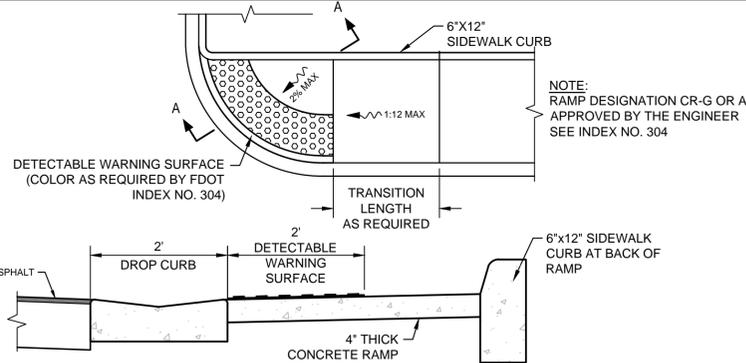


TYPE 'B' JOINT



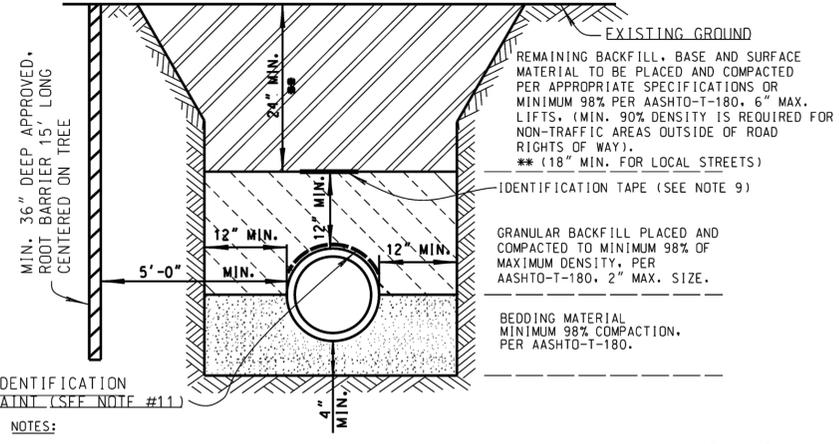
NOTE: MAXIMUM SPACING OF TYPE 'B' JOINT SHALL BE 100'.

SIDEWALK THICKNESS - 'T'	
LOCATION	'T'
RESIDENTIAL AREAS	4"
AT DRIVEWAYS AND OTHER AREAS	6"



SECTION A-A

3 RAMP DESIGNATION CR-G (FDOT INDEX NO. 304)
C5-1 N.T.S.



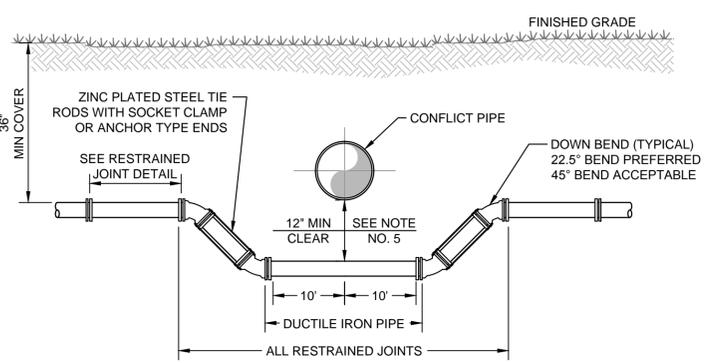
- NOTES:
- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMESTONE 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 - THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 - THE PIPE SHALL BE PLACED IN A DRY TRENCH.
 - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS.
 - DENSITY TESTS SHALL BE TAKEN IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM. (MINIMUM 1 SET) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION AS PART OF THEIR FIELD REVIEW.
 - THE PERMITTEE/DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS AND REGULATIONS.
 - SEE SEPARATE DETAIL FOR PAVED AREAS (OPEN CUT FOR THOROUGHFARE AND NON-THOROUGHFARE ROADS).
 - THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT/CONTRACT DOCUMENTS.
 - APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
 - ROOT BARRIER IS REQUIRED FOR APPROVED PIPE INSTALLATION CLOSER THAN 10 FEET FROM AN EXISTING TREE.
 - CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.
 - PERMANENT ABOVE GROUND UTILITY MARKER SHALL BE INSTALLED IF REQUIRED BY PROPERTY OWNER GRANTING THE PIPE INSTALLATION PERMIT.

7 TYPICAL TRENCH DETAIL (NON-PAVED AREAS)
C5-1 PBC STANDARD DETAIL

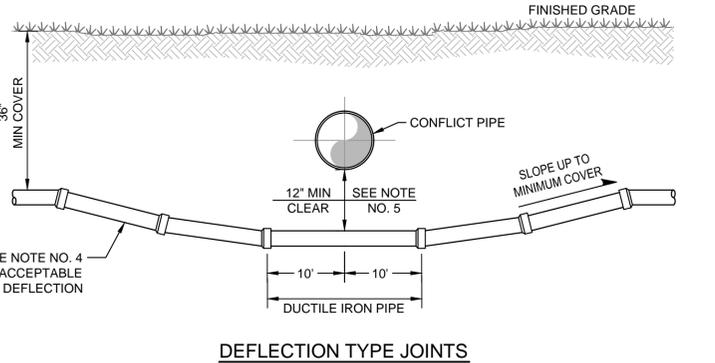
NOTE:
WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

1 TYPE 'F' CURB
C5-1 N.T.S.

2 CONCRETE SIDEWALK
C5-1 N.T.S.



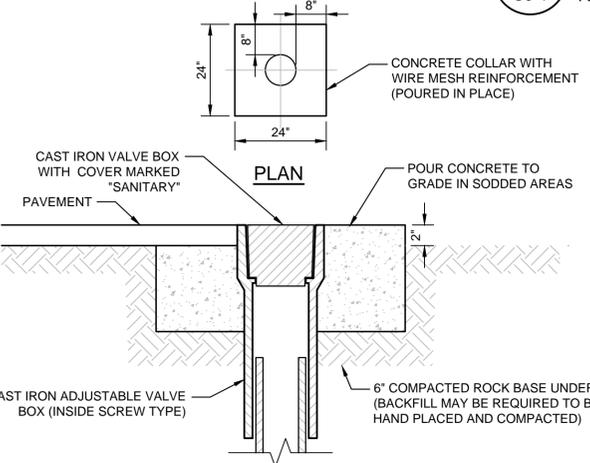
FITTING TYPE JOINTS



DEFLECTION TYPE JOINTS
PREFERRED METHOD

- NOTES:
- THERE SHALL BE, IN ALL CASES, A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN WATERMAINS AND FORCE MAINS.
 - WHEREVER POSSIBLE WATERMAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
 - FITTINGS SHALL BE RESTRAINED WITH MEGALUGS AND TIE RODS BETWEEN OFFSET FITTINGS. THRUST BLOCKS SHALL ONLY BE USED WITH THE APPROVAL OF THE ENGINEER.
 - THE DEFLECTION TYPE CROSSING IS PREFERRED. SEE SPECIFICATIONS AND MANUFACTURER'S SUBMITTAL FOR MAXIMUM DEFLECTION ALLOWED.
 - A MINIMUM OF 12" VERTICAL SEPARATION BETWEEN WATERMAINS AND STORM SEWERS SHALL BE MAINTAINED. WHERE THIS IS NOT POSSIBLE WATERMAIN SHALL BE D.I.P. WITH NO LESS THAN 6" SEPARATION.

4 CONFLICT PIPE CROSSING
C5-1 N.T.S.



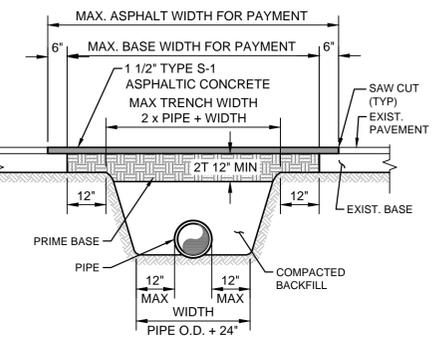
- NOTES:
- CONCRETE COLLAR IS NOT REQUIRED IN PAVED AREAS IF PAVEMENT SURFACE IS FINISHED PRIOR TO FINAL INSPECTION.
 - WHEN TOP OF OPERATING NUT IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS ARE TO BE STAINLESS STEEL. A HIGH STRENGTH STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
 - VALVE BOXES SHALL HAVE SQUARE IN COVER MARKED "SANITARY".
 - EXTENSION VALVE BOX TO BE DUCTILE IRON PIPE.
 - VALVE BOX SHALL NOT BE SUPPORTED ON VALVE OR PIPE.
 - VALVE BOX SHALL BE PLUMB AND CENTERED OVER THE NUT.

5 CAST IRON VALVE BOX
C5-1 N.T.S.

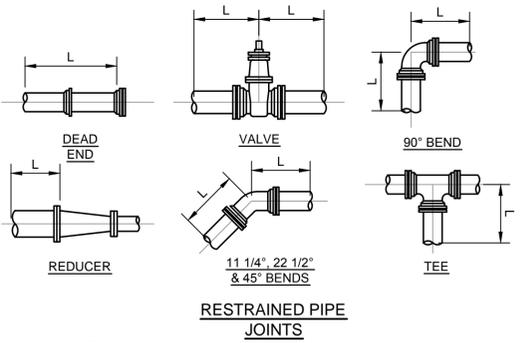
THE FOLLOWING IS A SYNOPOSIS OF FDEP RULE 62-555.314 F.A.C. IF THERE ARE ANY NOTED CONFLICTS, THE RULE SHALL BE APPLIED.

- STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A VERTICAL DISTANCE OF AT LEAST SIX (6) INCHES AND PREFERABLY TWELVE (12) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE AND PREFERABLY WITH THE WATER MAIN RUNNING OVER THE TOP. WHERE THE MINIMUM VERTICAL SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM / WASTEWATER / RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE SEPARATED FROM THE POINT OF CROSSING WITH NO LESS THAN SIX (6) FEET BETWEEN THE CROSSING AND ANY TWO JOINTS. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PRESSURE PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED.
- MAINTAIN MINIMUM SIX (6) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN. A MINIMUM OF THREE (3) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN AND WASTEWATER GRAVITY MAIN IS ALLOWABLE WHERE WATER MAIN IS TWELVE (12) INCHES ABOVE THE GRAVITY SEWER.
- FORCE MAIN CROSSING POTABLE WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE OUTSIDE OF THE POTABLE WATER MAIN CROSSING OVER THE FORCE MAIN.
- SEWER SERVICE LATERALS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES. IF TWELVE (12) INCHES VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATER MAIN SHALL BE D.I.P. AND THE SANITARY LATERAL C-900 SDR 18 AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES. WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM VERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED. THE WATER MAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR 18 OR BETTER.

8 STANDARD WATER AND SEWER SEPARATION CRITERIA
C5-1



6 ASPHALT ROAD REPLACEMENT
C5-1 N.T.S.



- NOTES:
- LENGTH 'L' IS IN FEET.
 - RESTRAINED LENGTHS ARE BASED ON THE FOLLOWING:
A. 150 PSI TEST PRESSURE
B. MIN 30" COVER.
C. PVC - PIPE SIZES 4" - 12".
D. PIPE SIZES 4" - 48".
E. SANDY SOIL.
F. SAFETY FACTOR OF 1.5.
 - LENGTH 'L' SHOWN IN THE TABLE TO BE RESTRAINED IN THE DIRECTION OF THE ARROWS.

9 RESTRAINED PIPE JOINTS
C5-1 N.T.S.

FITTING TYPE	MECHANICAL THRUST RESTRAINT - MINIMUM PIPE LENGTHS																	
	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"				
90° HORIZ BEND	17	14	24	20	31	25	36	30	42	40	44	49	53	61	71	80	89	96
45° HORIZ BEND	7	6	10	8	13	11	15	12	18	16	18	20	22	25	29	33	37	40
22.5° HORIZ BEND	3	3	5	4	7	6	9	8	11	10	11	12	14	16	18	19	21	23
11.25° HORIZ BEND	2	2	3	3	4	4	5	5	6	6	7	7	8	9	9	10	10	11
45° VERT. OFFSET	10	12	17	17	22	22	27	27	32	36	40	44	48	55	67	77	86	95
22.5° VERT. OFFSET	5	4	7	6	9	8	11	10	13	12	14	15	17	19	23	26	29	32
11.25° VERT. OFFSET	3	3	4	4	5	5	6	6	7	7	8	9	11	13	14	15	16	17
DEAD END AND INLINE VALVE	48	36	54	48	66	60	78	72	90	84	96	107	117	138	162	186	208	229
REDUCER (LARGER PIPE RESTRAINT)	18x	24x	30x	36x	42x	48x	54x	60x	66x	72x	78x	84x	90x	96x	102x	108x	114x	120x
TEE (BRANCH RESTRAINT)	18x	24x	30x	36x	42x	48x	54x	60x	66x	72x	78x	84x	90x	96x	102x	108x	114x	120x

DETAILS

PLOT DATE: Jun 24, 2014 - 2:30pm XREFS: BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

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