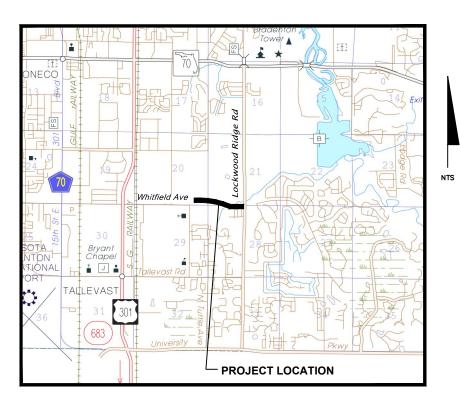


CONTRACT DRAWINGS

WHITFIELD AVENUE 16-INCH WATER MAIN

FOR

MANATEE COUNTY, FLORIDA COUNTY PROJECT NUMBER: 6040970



INDEX OF SHEETS

SHEET NO	SHEET DESCRIPTION
1	COVER
2	GENERAL NOTES & SYMBOLOGY
3	GEOMETRIC CONTROL SHEET
4 TO 7	PLAN & PROFILE SHEETS
8	SECTION SHEET
9 TO 10	ROADWAY RESTORATION PLANS
11 to 14	DETAIL SHEETS



UTILITY WARNING NOTE

ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

		REVISIONS
DATE	BY	DESCRIPTION

CLEARWATER

380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759
TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915

PLANS PREPARED BY:

KELLY S. WEHNER, PE ENGINEER OF RECORD FL. LICENSE NO.

DATE: NOVEMBER 2014

GENERAL NOTES

CONTACT NUMBER

- I. ALL WORKMANSHIP AND MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE NEW AND UNUSED AND CONFORM TO, OR EXCEED THE LATEST LOCAL JURISDICTION STANDARDS.
- CONTACT SUNSHINE STATE ONE CALL FOR UTILITY LOCATES A MINIMUM OF 48-HOURS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION AT 1-800-432-4770.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS
 PRIOR TO START OF CONSTRUCTION.

<u>UTILITY OWNER</u>	CONTACT NAME	CONTACT NUMBER
COMCAST CABLE	GONZALO ROJAS	(941) 342-3587
FLORIDA POWER AND LIGHT	TRACY STERN	(800) 868-9554
TECO PEOPLES GAS	DANNY SHANAHAN	(941) 342-4006
VERIZON FLORIDA INC.	DAVID WYNNS	(813) 627-8343
CITY OF BRADENTON	ARLAN CUMMINGS	(941) 708-6300 EXT 224
MANATEE COUNTY TRANSPORTATION	KATHY McMAHON	(941) 792-8811 EXT 5002
MANATEE COUNTY UTILITY OPERATIONS	KATHY McMAHON	(941) 792-8811 EXT 5002
BRIGHTHOUSE NETWORKS MANATEE	TOM WRIGHT	(941) 345-1348 EXT 21348

CONTACT NAME

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT FPL/GTE FOR RESTRAINING OF POLES
 DURING CONSTRUCTION. ALL ASSOCIATED COSTS WILL BE AT CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE LOCAL NOISE ORDINANCE.
- 5. HOURS OF WORK SHALL BE: NON-FEDERAL HOLIDAYS, MONDAY FRIDAY 7AM 5PM. WORK OUTSIDE THESE HOURS MUST BE SCHEDULED 48 HOURS IN ADVANCE AND MAY BE SUBJECT TO REIMBURSEMENT FOR ADDITIONAL INSPECTION SERVICES.
- 7. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION. THESE MAY
 - UTILITY CONSTRUCTION PERMIT.
 - R.O.W. USE PERMIT

LITH ITV OWNER

- EPA NPDES PERMIT
- DEWATERING PERMIT (AS REQUIRED)
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- 9. THE CONTRACTOR SHALL SUBMIT A CERTIFIED MOT PLAN FOR REVIEW AND APPROVAL 2 WEEKS PRIOR TO WORK IN R.O.W.
- 10. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE US DEPARTMENT OF TRANSPORTATION, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS". LATEST EDITION AND CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN EFFECTIVE BARRICADES, DANGER SIGNALS, SIGNS AND PEDESTRIAN DETOURS IN ALL AREAS WHERE REQUIRED FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR TRAFFIC AT ALL TIMES DURING CONSTRUCTION.
 CONSTRUCTION SHALL BE CONDUCTED IN SUCH A MANNER THAT RESIDENTS RETAIN ACCESS TO
 THEIR DRIVEWAYS AT ALL TIMES.
- 13. REFERENCES TO FDOT INDEXES REFER TO THE MOST RECENT EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS."
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA APPROVED BY THE ENGINEER.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, IRRIGATION SYSTEMS, MAILBOXES, SIDEWALKS, STREET SIGNS, AND PRIVATE FENCES AS REQUIRED BY E.O.R./OTHER GOVERNING ENTITIES.
- 17. ALL OPEN ROAD CUTS SHALL BE FILLED, COMPACTED AND COVERED WITH A TEMPORARY ASPHALT PATCH BEFORE DARK ON A DAILY BASIS DURING CONSTRUCTION. ALL OPEN CUTS SHALL BE RESTORED BY THE CONTRACTOR AS REQUIRED BY F.D.O.T., AND MANATEE COUNTY PUBLIC WORKS.
- 18. ALL SECTION CORNERS OR PROPERTY CORNERS DISLOCATED OR DISTURBED BY THE CONSTRUCTION ACTIVITIES SHALL BE RESET BY A REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.
- 19. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED. FINAL GRADE IS TO GENERALLY BE THE SAME AS EXISTING GRADE. RESTORE UNIFORMLY AND FOR PROPER DRAINAGE GRADE TOWARD ROADWAY.

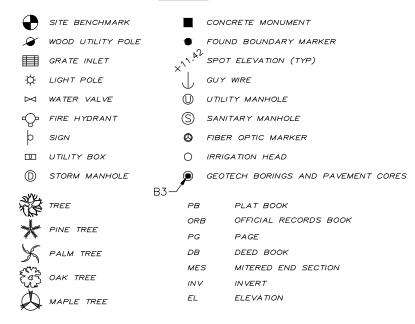
BY DATE

- 20. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. ALL COSTS WILL BE IN LF OF PIPE.
- 21. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL CLEARED VEGETATION WITHIN FIVE (5) DAYS OF CLEARING AND GRUBBING WORK.
- 22. ALL EXCESS SOIL RESULTING FROM CONSTRUCTION ACTIVITIES THAT IS NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF BY THE CONTRACTOR
- 23. ALL VOIDS AFTER PLACEMENT OF SOD SHALL BE FILLED WITH PREPARED SOIL MIX. THE SOD SHALL BE ROLLED TO MEET THE PROPOSED GRADES, SOD PLACED ON SLOPES (3:1 OR STEEPER) SHALL BE PEGGED.
- 24. AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION SHALL BE SODDED IN KIND AS DIRECTED BY THE ENGINEER UNLESS OTHERWISE NOTED ON PLANS.
- 25. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION
- 26. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION AND ELEVATION OF ALL EXISTING UTILITY CONNECTION POINTS PRIOR TO STARTING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
- 27. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, PROTECT, AND REPLACE (IF DAMAGED) ANY AND ALL EXISTING UTILITIES ON THIS PROJECT AT THEIR OWN EXPENSE.
- 28. THE CONSTRUCTION LIMITS INDICATED IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- 29. ALL POTABLE WATER, FIRE, IRRIGATION SYSTEM, SANITARY SYSTEM, STORM SYSTEM AND OTHER UTILITIES COMPONENTS SHALL BE PROTECTED AND SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE TO THE SYSTEMS.
- 30. DISRUPTIONS TO EXISTING RESIDENTIAL/COMMERCIAL WATER AND SEWER SERVICE SHALL BE KEPT TO A MINIMUM. ALL WATER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH MANATEE COUNTY PUBLIC WORKS PROJECT MANAGER AND IN ACCORDANCE WITH THE COUNTY'S PROCEDURES FOR SHUT DOWNS.
- 31. CONTRACTOR SHALL ENSURE THAT EXCAVATIONS ARE FREE OF DEBRIS PRIOR TO BACKFILLING.
- 32. THE CONTRACTOR SHALL NOT ENTER OR OCCUPY ANY LAND OUTSIDE THE RIGHTS-OF-WAY OR PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNER.
- 33. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A NPDES NOI PERMIT FROM EPA, AS WELL AS PREPARING AND MAINTAINING A STORMWATER POLLUTION PREVENTION PLAN FOR BOTH ONSITE AND OFFSITE IMPROVEMENTS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL REQUIREMENTS OF THE EPA NPDES PERMIT FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY STORMWATER DISCHARGE PERMIT AND/OR DEWATERING PLAN, AND SHALL BE RESPONSIBLE TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE PERMIT.
- 34. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS TO ELIMINATE THE TRANSPORT OF DUST FROM THE PROJECT SITE. SPECIAL MEASURES, SUCH AS PERIODICALLY APPLYING WATER TO THE WORK SITE TO PREVENT DUST SHALL BE INCORPORATED INTO THE CONTRACTORS WORK PLAN.
- 35. WHERE REFERENCED STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY.
- 36. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES AS REQUIRED. THIS SHOULD INCLUDE BY-PASS PUMPING IF REQUIRED.
- 37. DUE TO THE NATURE OF SOME WORK ELEMENTS, SUCH AS BUT NOT LIMITED TO, PAVEMENT CROSSINGS CONNECTIONS TO EXISTING MAINS, PLUGGING AND CAPPING EXISTING LINES, ETC., MAY REQUIRE WORK DURING NON ROUTINE HOURS SUCH AS NIGHT TIME.

SURVEYOR'S NOTES & SYMBOLOGY

NOTE: EXISTING FEATURES ARE SHOWN LIGHT-LINED AND DASHED

LEGEND



- 1. THE FOLLOWING NGS NAVD88 VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS SHOWN HEREIN: MELROSE PARK PID: DO1578 ELEVATION 18.18 FEET AND MIRAMAR PID: DO1579 ELEVATION 14.57 FEET.
- 2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011).

SURVEY PROVIDED BY:

Hyatt Survey Services, Inc.

LB No.: 7203 Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212

Phone: (941) 748-4693 Fax: (941) 744-1643

LINE WORK & SYMBOLOGY

 PROPERTY LINE	 FENCE LINE
 CENTERLINE	 TOE OF SLOPE
 SECTION LINE	 TOP OF BANK
 JURISDICTIONAL LINE	 WETLAND LINE
 RIGHT-OF-WAY LINE	 GUARDRAIL
 EASEMENT LINE	 CONTOUR LINE AND ELE

EXISTING UTILITY LINE WORK SYMBOLOGY NOTE: PIPES 12-INCHES AND LARGER SHOWN WITH DOUBLE LINES.

 FW
 FW
 WATER MAIN
 BE
 BURIED ELECTRIC

 — FOC
 FOC
 BURIED FIBER OPTIC
 — UGT
 — UGT
 — BURIED TELEPHONE

 — GAS
 GAS
 GAS
 GAS MAIN
 — FM
 — FM
 — FM
 — SANITARY FORCE MAIN

 — UGTV
 — UGTV
 — UGTV
 — UGTV
 — RW
 — RW
 — RW
 — RW
 — RW
 — RW
 — RECLAIMED WATER MAIN

 — UNK
 — UNKNOWN UTILITY
 — UNKNOWN UTILITY
 — TH1-1
 TEST HOLE LOCATION

NOTE:

THE LEGEND LISTED REPRESENT A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE. THEREFORE, NOT ALL OF THE SYMBOLS AND ABBREVIATIONS CONTAINED ON THIS SHEET ARE NECESSARILY USED ON THIS PARTICULAR CONTRACT.

DESIGNED

DRAWN

DES

Q.C.

DRM

APPROVED

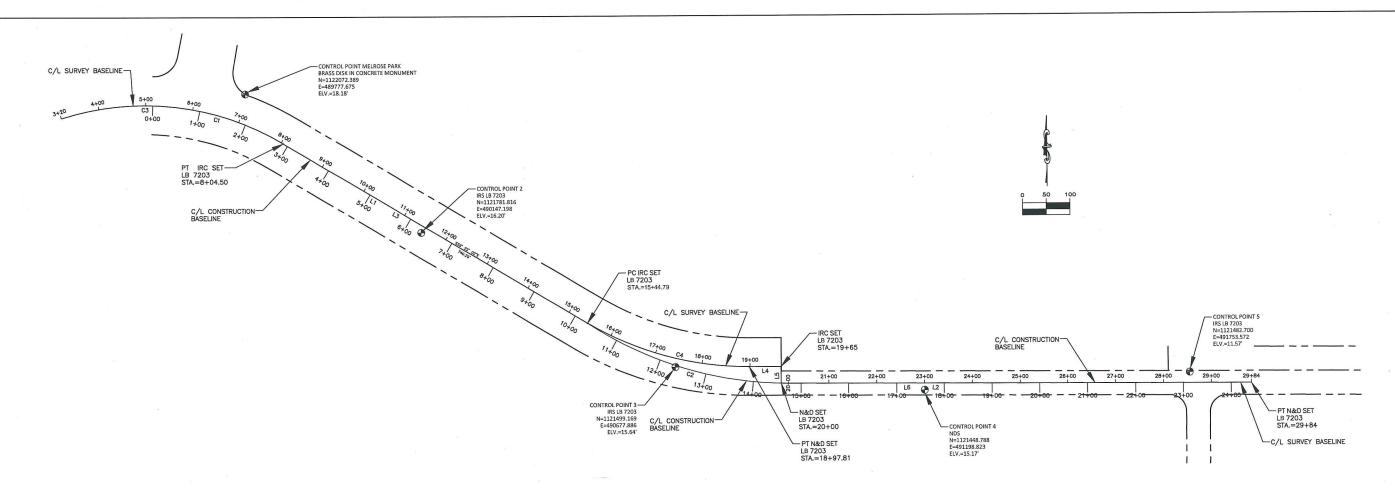
GENERAL NOTES & SYMBOLOGY

PROJECT NO:
00193009.03

DATE:
NOVEMBER 2014
SHEET NO:

MANATEE COUNTY

WHITFIELD AVENUE 16-INCH WATER MAIN CLEARWATER
Shaping the Future
CLEARWATER
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759
TEL: (727) 531-3505 (800) 861-8314
www.cardno.com Certificate of Authorization No. 29915



	-						CONSTRUCT	ION BASELINE							ē
LINE (CLIP) (F. #		PC/BEGIN		PT/END			PT/END CC		TANGENT	LENGTH	RADIUS	BEARING	DISTANCE	C/L SURVEY BASELINE	
LINE/CURVE #	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	NORTHING	EASTING	222174			112100		make the second	STATION
C1	0+00	1122048.918	48582.828	2+89.58	1121968.830	489857.953	1121473.211	489564.462	28° 48' 20"	147.92	289.59	576.00			BEGIN 5+14.92, END 8+04.50
11		1121968.830	489857.953	10+29.87	1121591.630	490494.940							S 59° 22' 02" E	740.29	BEGIN 8+04.50, END 15+44.79
LI	2+89.58		Note that the same of				1122224 044	490916.120	32° 17' 25"	220.18	428.64	760.58			BEGIN 15+44.79, END 20+00.00
C2	10+29.87	1121591.630	490494.940	14+48.52	1121464.540	490898.398	1122224.944	490916.120	32 17 23	220.18	420.04	700.50			BEGIN 20+00.00, END 29+41.48
L2	14+48.52	1121464.540	490898.398	24+00	1121459.880	491839.866							S 89° 42′ 53" E	941.48	DEGIN 20+00.00, END 29+41.48

	C/L SURVEY BASELINE													
	PC/BEGIN			PT/END		СС		DELTA	TANGENT	LENGTH	RADIUS	BEARING	DISTANCE	
LINE/CURVE #	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	NORTHING	EASTING	DELIA	IANGLIVI	LLINGIII	IIADIOS	DEFINITO	
C3	3+19.56	1121968.830	489857.953	8+04.50	1122022.232	489390.244	1121473.211	489564.462	45° 14' 18"	257.89	484.95	576.00	2	
L3	8+04.50	1122022.232	489390.244	15+44.79	1121591.628	490494.936							S 59° 22' 02" E	740.29
C4	15+44.79	1121591.628	490494.936	18+97.81	1121499.525	490831.382	1122159.525	490831.229	30° 38'46"	180.84	353.02	660.00		e ₀
L4	18+97.81	1121499.525	490831.382	19+65.00	1121499.541	490898.571							N 89° 59' 12" E	67.19
L5	19+65.00	1121499.541	490898.571	20+00	1121464.540	490.898.398							S 00° 17' 01" W	35.00
L6	20+00	1121464.540	490.898.398	29+84	1121459.672	491882.003							S 89° 42' 59" E	983.62

CONTROL AND BASELINE INFORMATION SHOWN HEREON ARE FROM THE TOPOGRAPHIC SURVEY PERFORMED BY HYATT SURVEY SERVICES, INC, JOB NUMBER 13-1817 AND DATED 03/2014. TO PROVIDE EXISTING TOPOGRAPHIC CONDITIONS ALONG WHITFIELD AVENUE FROM THE WEST RIGHT-OF-WAY OF TUTTLE AVENUE TO THE EAST RIGHT-OF-WAY OF 43RD COURT EAST FOR FUTURE IMPROVEMENTS TO THE PUBLIC WATER SYSTEM.

Hyatt Survey Services, Inc. Geographic Data Specialists

11007 8th Avenue East Bradenton, Florida 34212 Phone: (941) 748-4693 Fax: (941) 744-1643

DRAWN

CBW APPROVED

Q.C.

THIS SURVEY IS NOT WALLD WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAT A PROPRIET OF THE SURVEYOR AND MAPPER.

RUSSELL P. HYAIT, P.S.M. FLORIDA SURVEYORS REGIS

NO. DESCRIPTION BY DATE

MANATEE COUNTY

WHITFIELD AVENUE 16-INCH WATER MAIN

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SARASOTA	ompring and a
22 SATASOTA CENT	TER BLVD, SARASOTA, FL 34240
TEL: (941) 870-5740	(800) 861-8314
www.cardno.com	Certificate of Authorization No. 29915

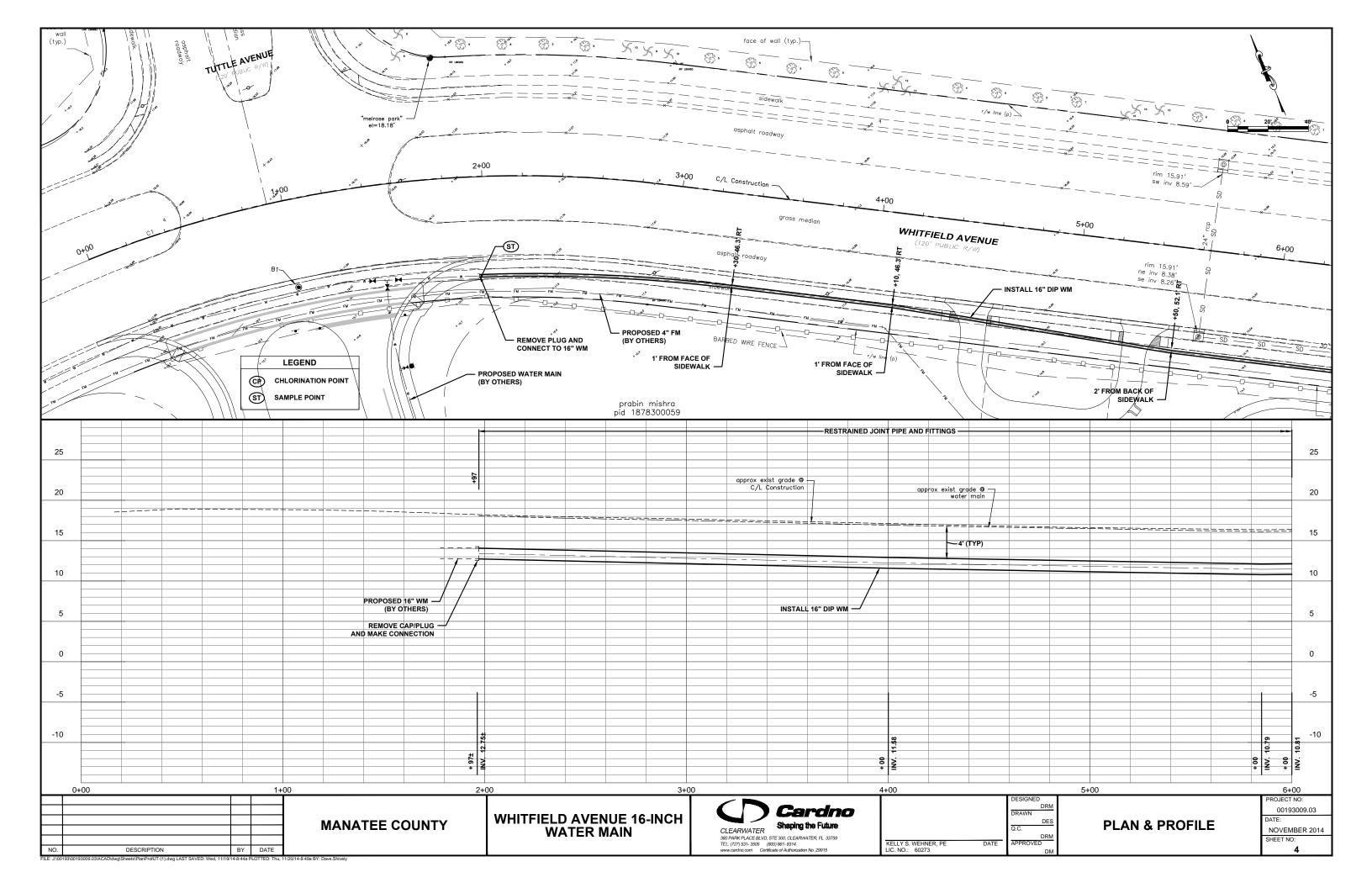
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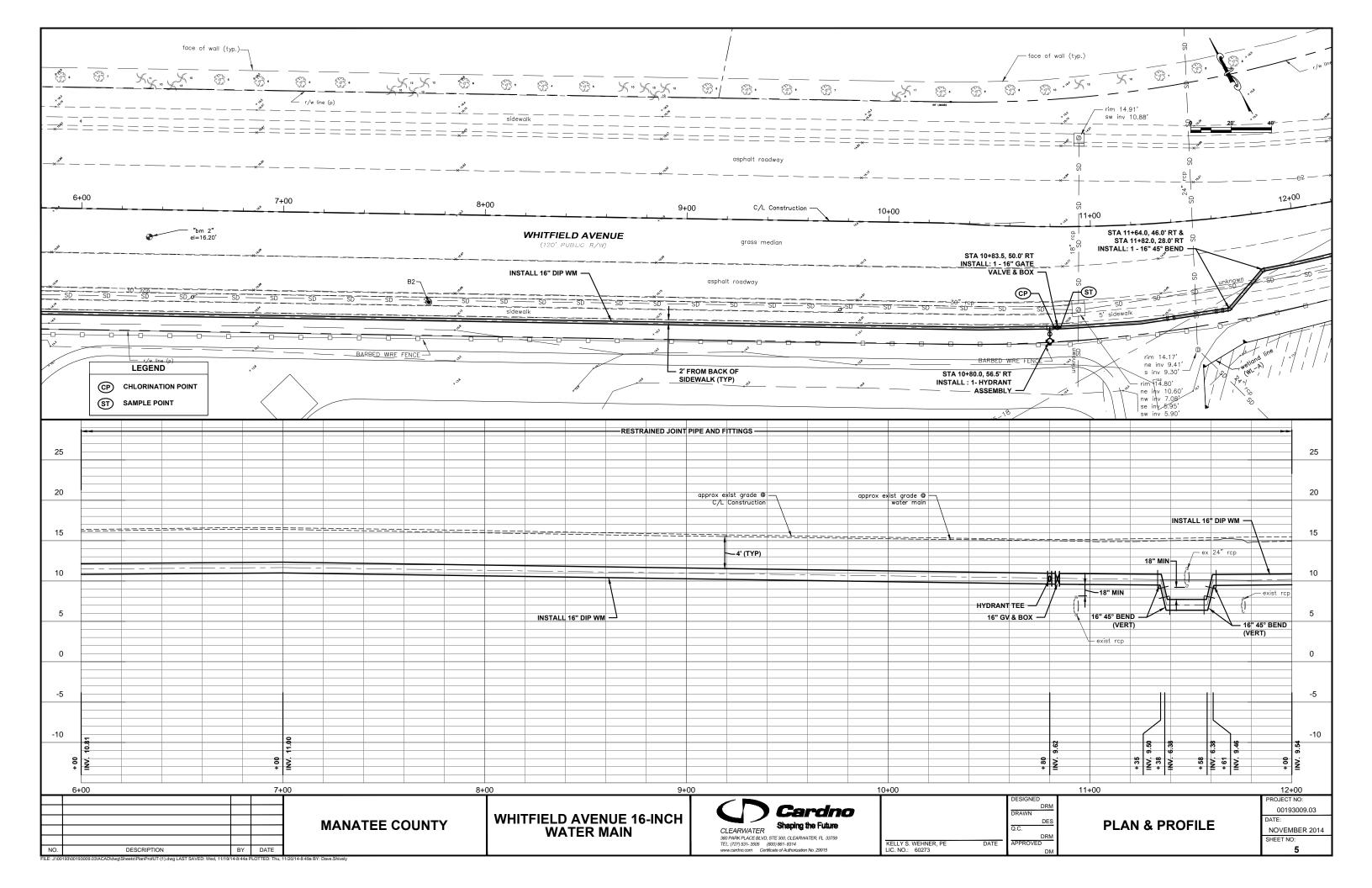
GEOMETRIC CONTROL SHEET 00193009.03

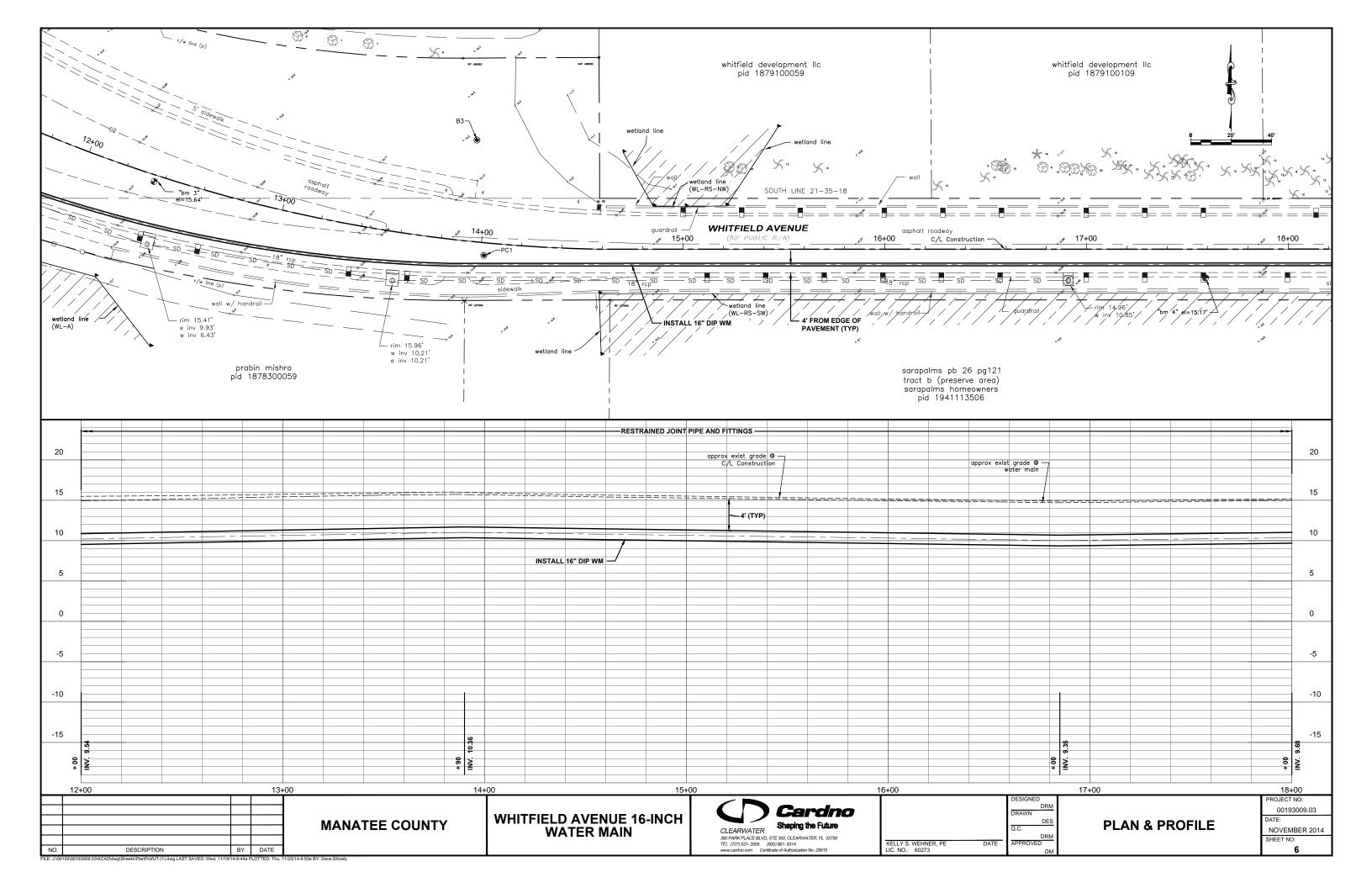
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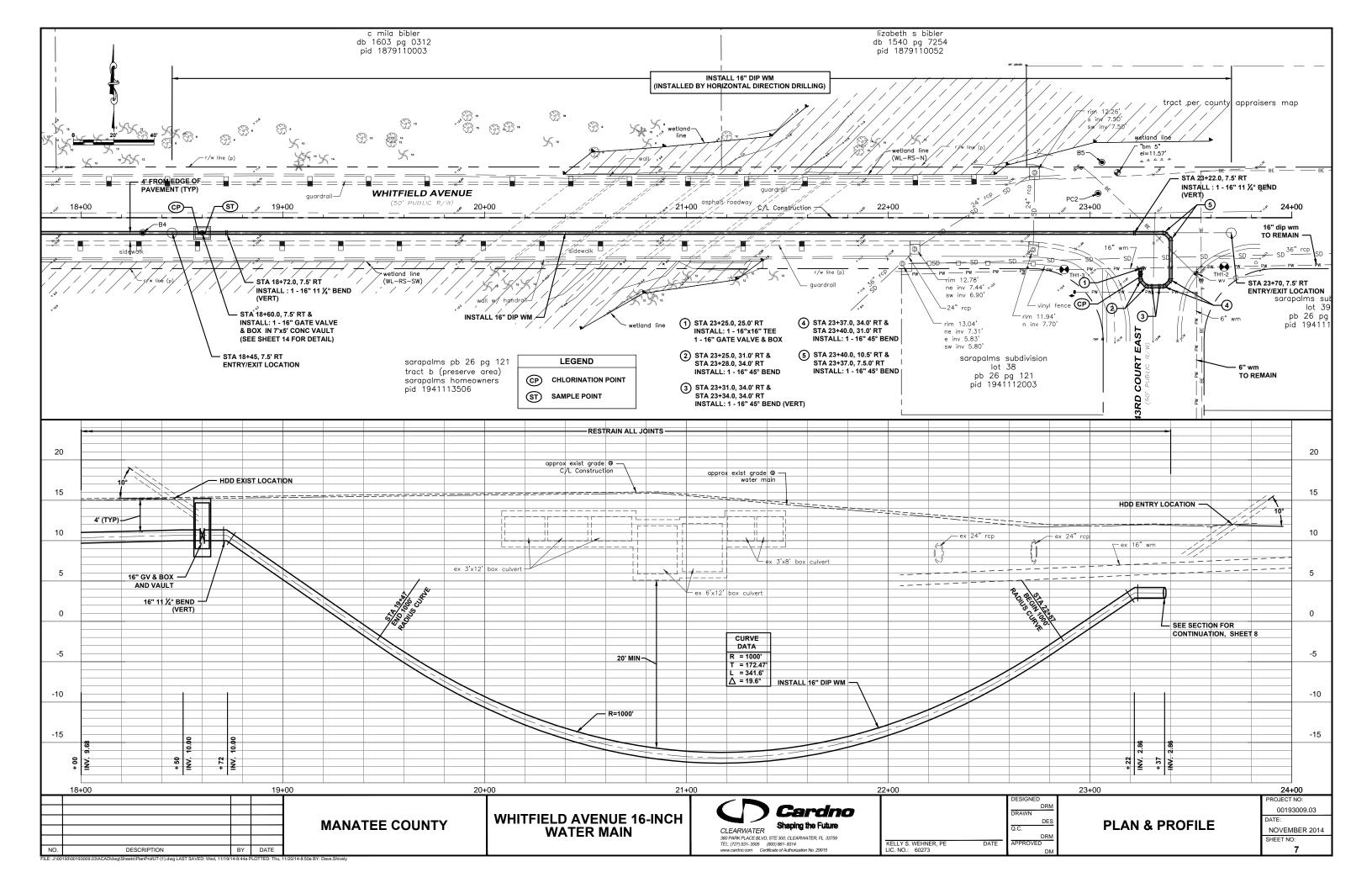
AUGUST 2014

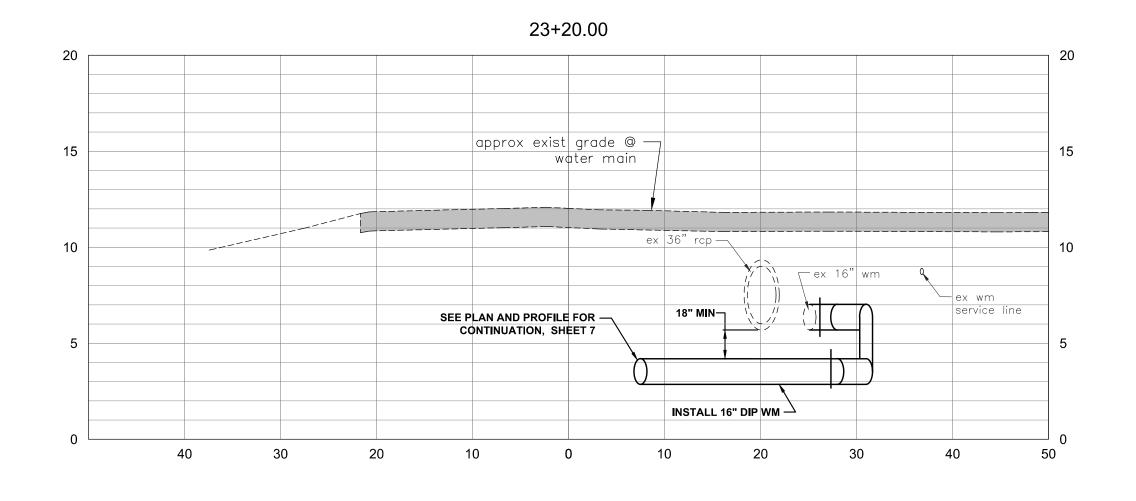
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MANATEE COUNTY

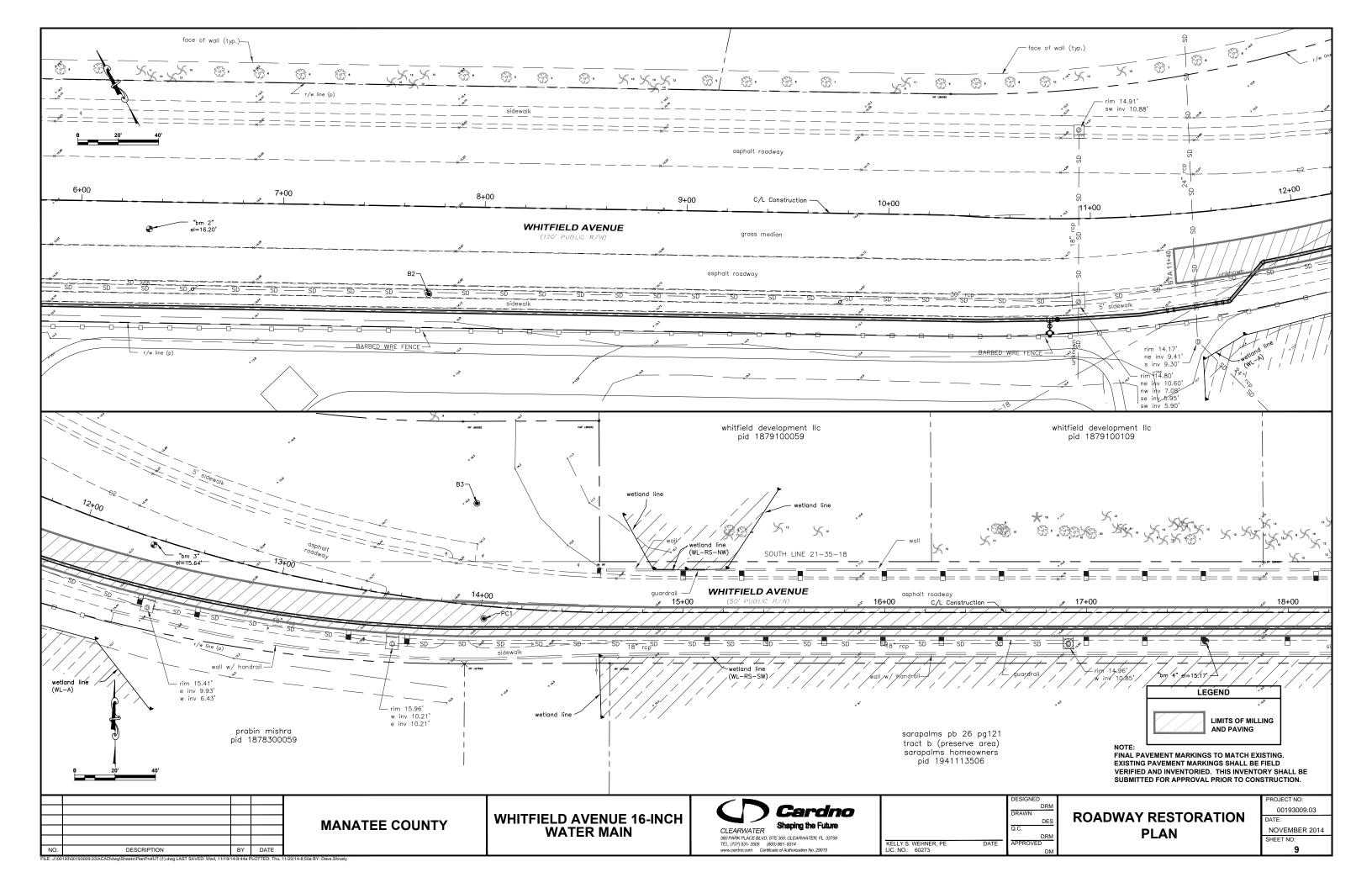
WHITFIELD AVENUE 16-INCH WATER MAIN

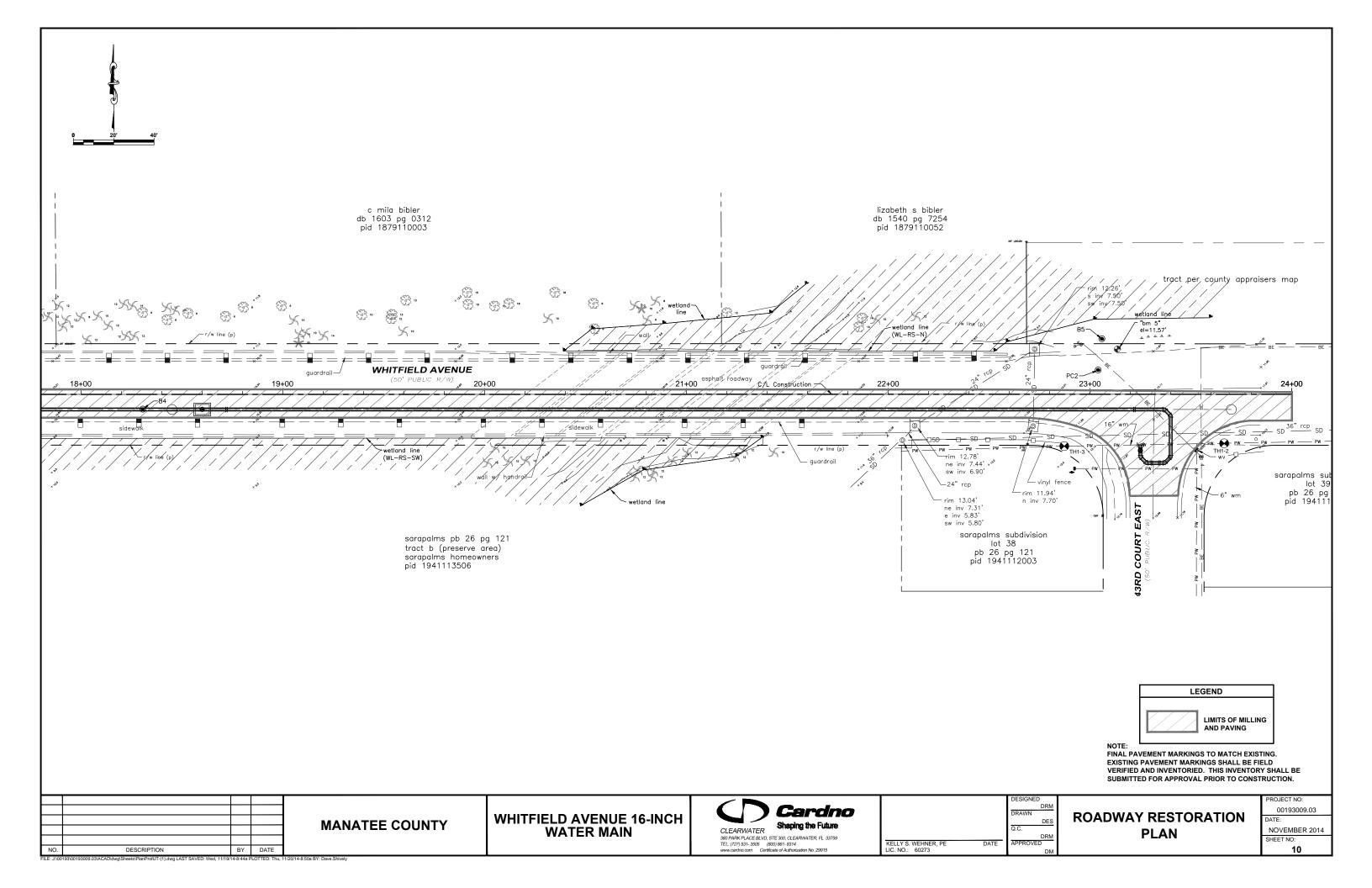


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DATE	APPROVED
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00193009.03 NOVEMBER 2014 SHEET NO:

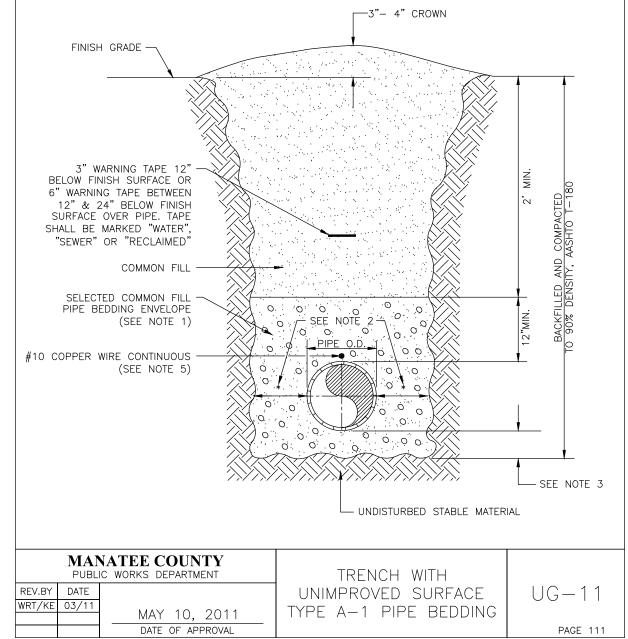
SECTION





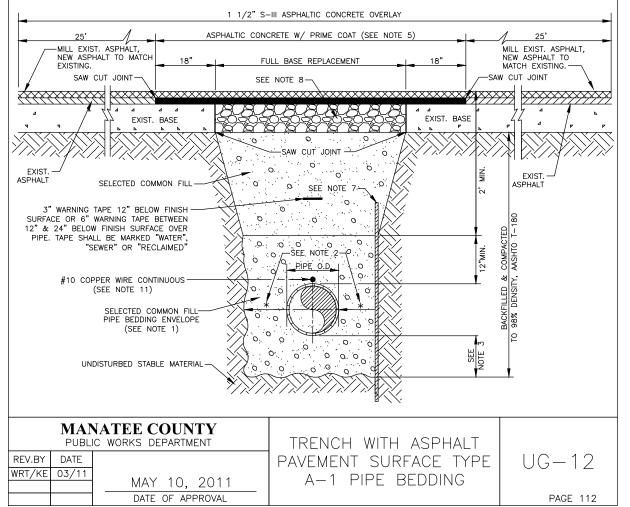
NOTES:

- 1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE FNGINFFR
- 2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS. THE MAXIMUM WIDTH OF THE EXCAVATED TRENCH SHALL NOT EXCEED 8 FEET.
- 3. TYPICALLY 4" TO 6".
- 4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 5. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



NOTES

- 1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
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- 4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1 1/4 INCH, WHICHEVER IS GREATER.
- 6. MILL 25' BACK FROM TRENCH SAW CUT. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY LIMITS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
- 7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
- 8. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
- 9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
- 10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
- 11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
- 12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



NO. DESCRIPTION BY DATE

MANATEE COUNTY

WHITFIELD AVENUE 16-INCH WATER MAIN CLEARWATER
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759
TEL. (727) 531-5305 (200) 961-8314
www.cardno.com Certificate of Authorization No. 29915

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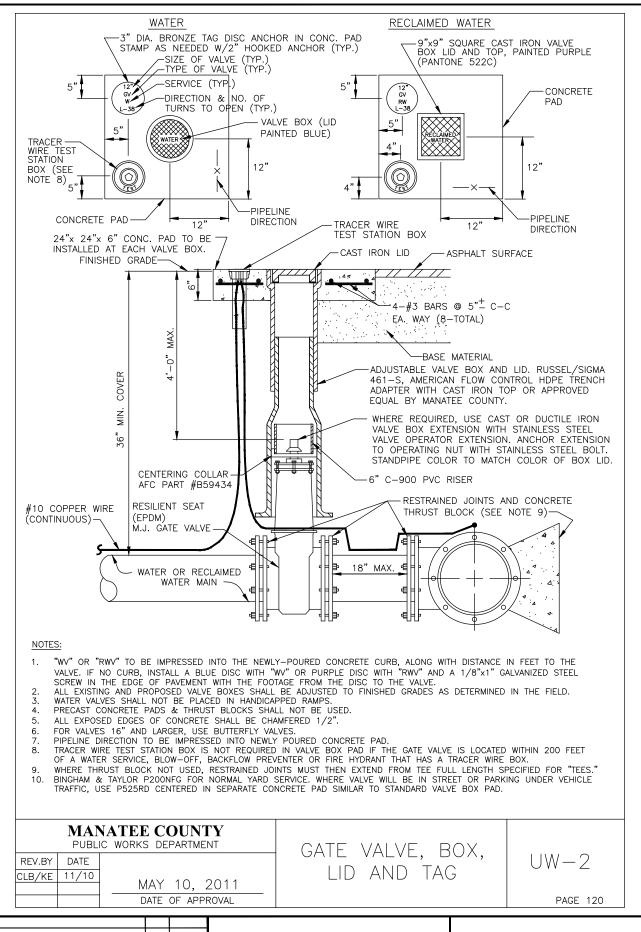
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S. WEHNER, PE DATE APPROVE

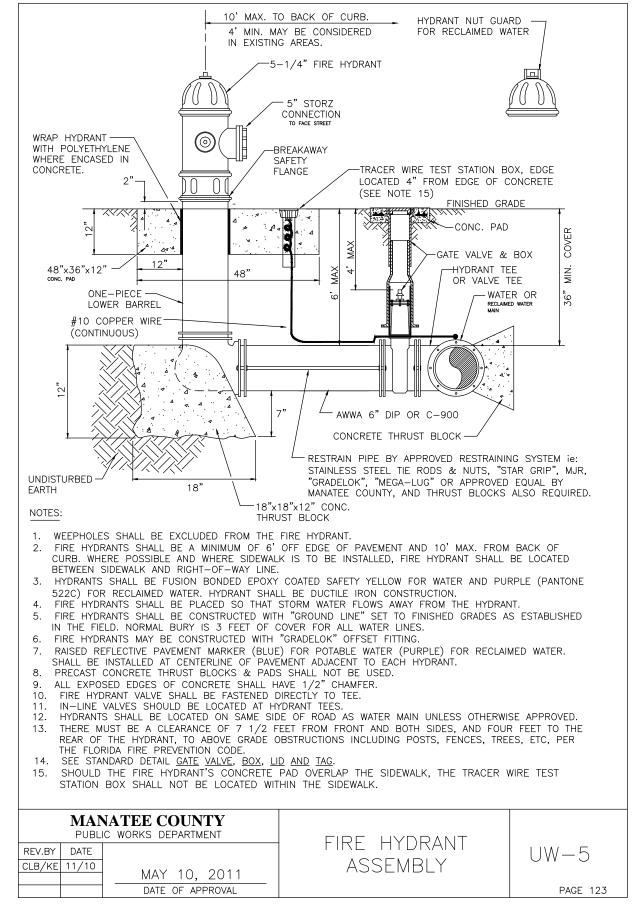
DETAIL SHEET

PROJECT NO:
00193009.03
DATE:
NOVEMBER 2014
SHEET NO:

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MANATEE COUNTY



WHITFIELD AVENUE 16-INCH WATER MAIN CLEARWATER
Shaping the Future
380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759
TEL: (727) 531-3305 (800) 861-8314
www.cardno.com Cettificate of Authorization No. 29915

DESIGNED DRAWN

Q.C.

DHNER, PE DATE

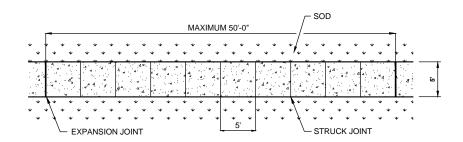
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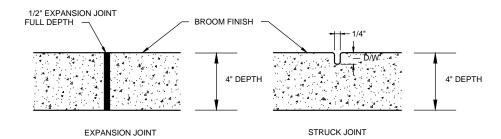
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PROJECT NO: 00193009.03 DATE: NOVEMBER 2014

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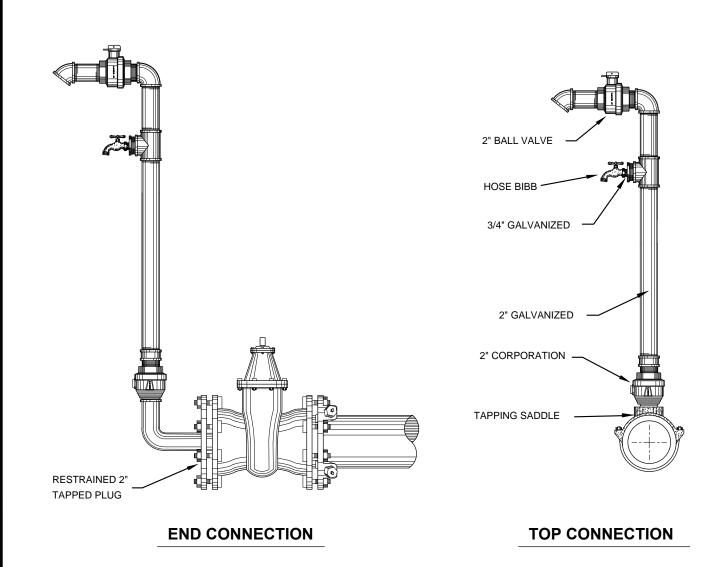


NOTES:

- SIDEWALK SHALL BE CONSTRUCTED WITH 3,000 PSI CONCRETE PER FDOT DESIGN STANDARDS S22.
- SIDEWALK ACROSS DRIVEWAYS SHALL BE RESTORED WITH 6 INCHES OF 3,000 PSI CONCRETE WITH W2.5, W2.5, 6x6 WIRE MESH.
- 3. SIDEWALK EXPANSION JOINTS TO BE AT ALL TIES TO CONCRETE OTHER THAN DRIVEWAYS. MAXIMUM SPACING SHALL BE 50'.
- 4. EXPANSION JOINT MATERIAL SHALL BE ASPHALT FIBER IMPREGNATED PERFORMED JOINT FILLER, TO FULL DEPTH OF CONCRETE.
- 5. SOD SHALL BE REPLACED IN KIND.

SIDEWALK REPLACEMENT DETAIL

NTS



TEMPORARY BLOW-OFF AND SAMPLE TAP ASSEMBLY

NTS

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

WHITFIELD AVENUE 16-INCH WATER MAIN



 CLEARWATER
 Shaping the Future

 380 PARK PLACE BL VD. STE 300, CLEARWATER FL. 33759
 KELLY

 TEL (22) 531-3505 (800) 861-8314
 KELLY

 www.cardno.com
 Certificate of Antionzation No. 29915
 LIC. NO.

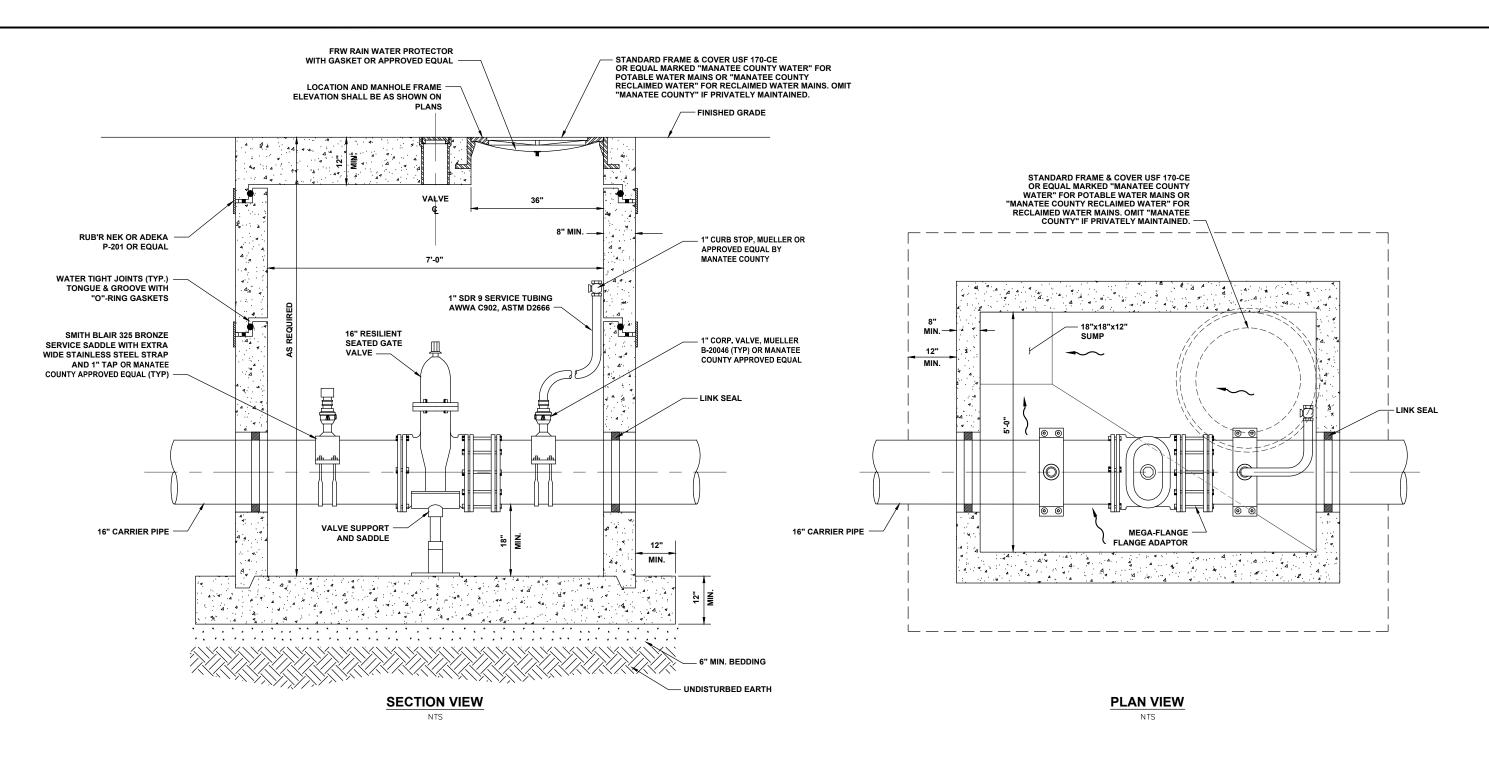
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APPROVED

DETAIL SHEET

PROJECT NO: 00193009.03 DATE: NOVEMBER 2014

SHEET NO:

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NOTES:

- 1. AUTOMATIC AIR RELEASE VALVES SHALL NOT BE INSTALLED BELOW GRADE.
- 2. SADDLE STRAPS, NUTS, BOLTS AND WASHERS TO BE STAINLESS STEEL.
- 3. MANUALLY OPERATED AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS OF MAIN WHERE SPECIFICALLY INDICATED ON THE PLANS.
- 4. ALL PIPES PENETRATING VAULT SHALL HAVE RESILIENT PIPE TO MANHOLE SEALS PER ASTM C-923, XP BY A-LOK OR EQUAL.
- 5. PRECAST CONCRETE VAULT SHALL BE DESIGNED PER ASTM C478 REQUIREMENTS BY MANUFACTURER.
- 6. THICKNESSES SHOWN ARE A MINIMUM AND MUST BE VERIFIED BY MANUFACTURER.
- 7. THE MINIMUM THICKNESSES SHOWN ARE INTENDED TO PROVIDE A STRUCTURE THAT IS NON-BUOYANT AFTER BEING FULLY CONSTRUCTED. THE CONTRACTOR SHALL PROTECT THE STRUCTURE AS NECESSARY FROM FLOATATION UNTIL IT IS FILLLY CONSTRUCTED.
- 8. THE TOP SLAB, FRAME AND COVER SHALL BE DESIGNED TO ACCOMMODATE H20

ISOLATION VALVE AND VAULT

NTS

NO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

WHITFIELD AVENUE 16-INCH WATER MAIN



 CLEARWATER

 380 PARK PLACE BLVD, STE 300, CLEARWATER, FL 33759

 TEL: (272), 537 - 3056 (2000) 861-8314
 KELLY S. WEHNER, PE

 www.cardno.com
 Certificate of Authorization No. 29915
 LIC. NO.: 60273

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