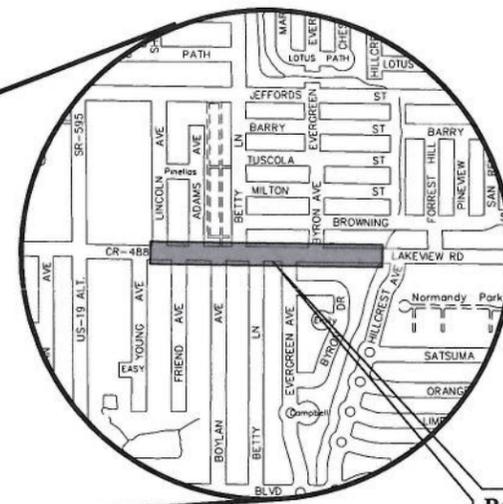
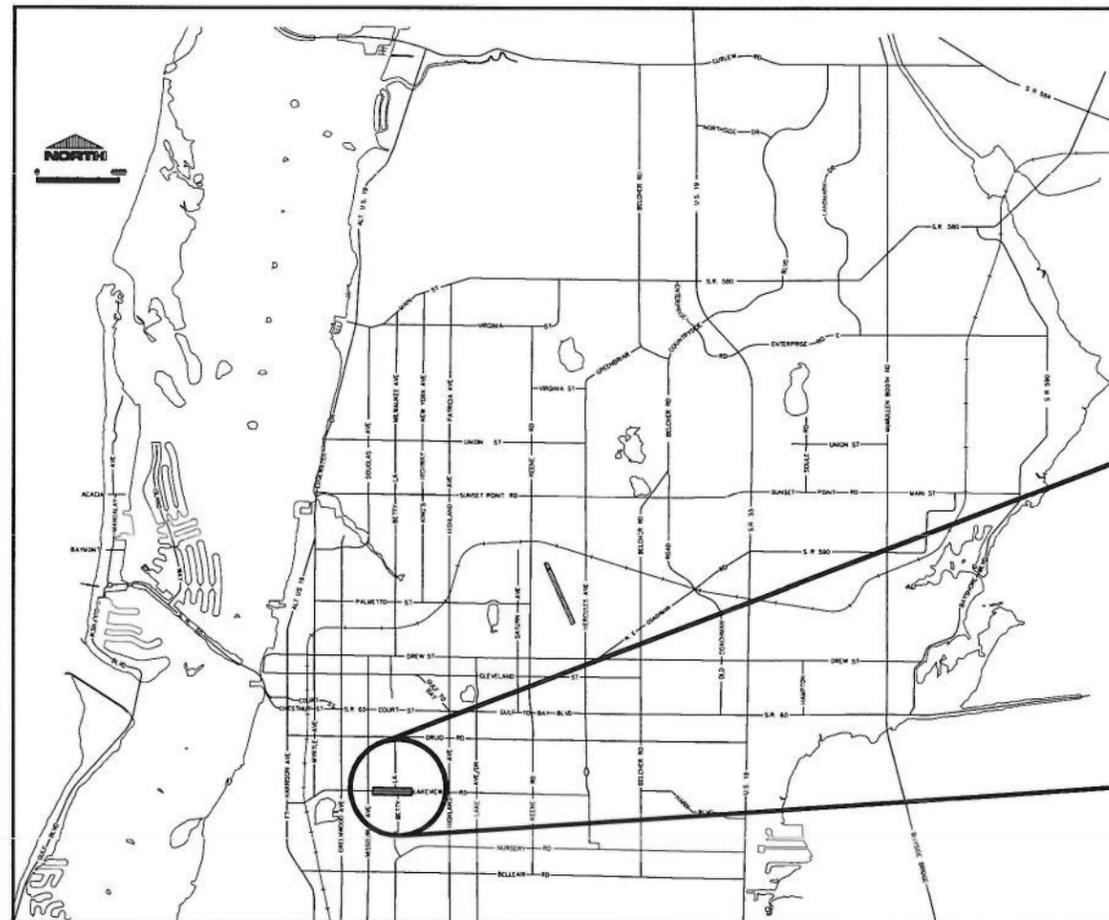


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LAKEVIEW ROAD UTILITY RELOCATION PINELLAS COUNTY JPA



Project Location

CITY OFFICIALS

George N. Cretekos	Mayor
Jay Polglaze	Councilmember
Dr. Bob Cundiff	Councilmember
David Allbritton	Councilmember
Hoyt Hamilton	Councilmember
William B. Horne II	City Manager

Tara L. Kivett, P.E.
City Engineer

Approved For
Construction

Date Approved

Tara Kivett
CITY ENGINEER Tara L. Kivett, P.E. #8611

11/7/19

ISSUED FOR BID 08/01/19
City Project No. 19-0013-UT
City Plan Set No. 2019017

AS-BUILT DRAWINGS NOTES

1. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL KEEP AND MAINTAIN ONE SET OF BLUEPRINTS, AS-BUILT DRAWINGS, IN GOOD ORDER AND LEGIBLE CONDITION TO BE CONTINUOUSLY MARKED-UP AT THE JOB SITE. THE CONTRACTOR SHALL MARK AND ANNOTATE NEATLY AND CLEARLY ALL PROJECT CONDITIONS, LOCATIONS, CONFIGURATIONS AND ANY OTHER CHANGES OR DEVIATIONS WHICH MAY VARY FROM THE DETAILS REPRESENTED ON THE ORIGINAL CONTRACT PLANS, INCLUDING REVISIONS MADE NECESSARY BY ADDENDA, SHOP DRAWINGS, AND CHANGE ORDERS DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL RECORD THE HORIZONTAL AND VERTICAL LOCATIONS, IN THE PLAN AND PROFILE, OF ALL BURIED UTILITIES THAT DIFFER FROM THE LOCATIONS INDICATED OR WHICH WERE NOT INDICATED ON THE CONTRACT PLANS AND BURIED (OR CONCEALED), CONSTRUCTION AND UTILITY FEATURES WHICH ARE REVEALED DURING THE CONSTRUCTION PERIOD.

THE AS-BUILT DRAWINGS SHALL BE AVAILABLE FOR INSPECTION BY THE ENGINEER, ENGINEER'S CONSULTANT, AND THE OWNER'S REPRESENTATIVE AT ALL TIMES DURING THE PROGRESS OF THE PROJECT.

THE AS-BUILT DRAWINGS SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE, OR HIS DESIGNEE, FOR ACCURACY AND COMPLIANCE WITH THE REQUIREMENTS OF "AS-BUILT DRAWINGS" PRIOR TO SUBMITTAL OF THE MONTHLY PAY REQUESTS. THE PAY REQUESTS SHALL BE REJECTED IF THE MARKED-UP REDLINE PRINTS DO NOT CONFORM TO THE "AS-BUILT DRAWINGS" REQUIREMENTS. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE OWNER INSPECTOR FOR APPROVAL UPON COMPLETION OF THE PROJECT AND PRIOR TO ACCEPTANCE OF FINAL PAY REQUEST. FINAL PAY REQUEST SHALL NOT BE PROCESSED UNTIL AS-BUILT DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER OR THE ENGINEER'S CONSULTANT FOR ACCURACY AND COMPLETENESS.

PRIOR TO PLACING NEW POTABLE WATER MAINS IN SERVICE, THE CONTRACTOR SHALL PROVIDE THE ENGINEER INTERSECTION DRAWINGS, AS SPECIFIED FOR THE WATER MAINS.

THE OWNER'S ACCEPTANCE OF THE "AS-BUILT DRAWINGS" DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THE AS-BUILT DRAWINGS.

1.1. GENERAL

THE CONTRACTOR SHALL PREPARE AN "AS-BUILT SURVEY" PER CHAPTER 5J-17.052, FLORIDA ADMINISTRATIVE CODE (SEE DEFINITION BELOW), SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THE CONTRACTOR WILL DELIVER TO THE OWNER TWO HARD COPIES OF SIGNED AND SEALED AS-BUILT DRAWINGS AND AN AUTOCAD FILE.

5J-17.050 DEFINITION: (10)(A) AS-BUILT SURVEY: A SURVEY PERFORMED TO OBTAIN HORIZONTAL AND/OR VERTICAL DIMENSIONAL DATA SO THAT CONSTRUCTED IMPROVEMENTS MAY BE LOCATED AND DELINEATED; ALSO KNOWN AS RECORD SURVEY.

THIS SURVEY SHALL BE CLEARLY TITLED "AS-BUILT SURVEY" AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THE SURVEY MUST BE DELIVERED TO THE OWNER OF CLEARWATER CONSTRUCTION DIVISION UPON SUBSTANTIAL COMPLETION OF THE PROJECT.

1.2. SANITARY AND STORM SEWER PIPING SYSTEMS

MANHOLES AND INLETS SHALL BE LOCATED BY SURVEY COORDINATES (NORTHING, EASTING AND ELEVATION) BASED ON THE APPROVED HORIZONTAL AND VERTICAL DATUM OR UTILIZE THE STATIONING SUPPLIED ON THE CONSTRUCTION PLANS. NEW AND REPLACED SERVICE CONNECTIONS SHALL BE DIMENSIONED TO THE NEAREST DOWNSTREAM MANHOLE. ALL MANHOLES, CLEANOUTS AND CATCH BASIN INVERT AND RIM ELEVATIONS, MANHOLE AND CATCH BASIN DIMENSIONS, PIPE SIZES, AND PIPE MATERIAL SHALL ALSO BE NOTED ON THE PLAN VIEW AND ALSO ON THE PROFILE IF ONE EXISTS. THE TERMINAL ENDS OF ALL SUBDRAINS, INVERTS OF ALL PIPE IN STRUCTURES, AND THE FLOW LINE OF INLETS SHALL ALSO BE NOTED ON THE PLAN VIEW AND ALSO ON THE PROFILE IF ONE EXISTS.

PIPE MATERIALS AND AREAS OF SPECIAL CONSTRUCTION SHALL BE NOTED.

1.3. PRESSURE PIPE CONSTRUCTION (WATER, RECLAIMED WATER, FORCEMAIN)

ALL PIPES SHALL BE LOCATED BY SURVEY COORDINATES (NORTHING, EASTING AND ELEVATION) BASED ON THE APPROVED HORIZONTAL AND VERTICAL DATUM OR UTILIZE THE STATIONING SUPPLIED ON THE CONSTRUCTION PLANS. COORDINATES SHALL BE AT ALL PIPE BENDS, TEES, VALVES, REDUCERS, AND DEFLECTIONS. ALSO ALL NEW AND REPLACED SERVICE CONNECTIONS FOR POTABLE AND RECLAIMED WATER WILL BE LOCATED AS DESCRIBED ABOVE. ADDITIONALLY THERE MUST BE SURVEY COORDINATES NO FURTHER THAN 100 FEET APART ON LINEAR TYPE CONSTRUCTION AND SHALL DENOTE TOP OF PIPE ELEVATION AT THOSE POINTS.

1.4. HORIZONTAL AND VERTICAL CONTROL

THE AS-BUILT SURVEY SHALL BE BASED ON THE ORIGINAL DATUM USED FOR THE CONSTRUCTION DESIGN PLANS OR IF REQUIRED BY THE OWNER THE DATUM SHALL BE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983/90 (HORIZONTAL) AND THE NORTH AMERICAN VERTICAL DATUM OF 1988. THE UNIT OF MEASUREMENT SHALL BE THE UNITED STATES FOOT. ANY DEVIATION OR USE OF ANY OTHER DATUM, (HORIZONTAL AND OR VERTICAL), MUST BE APPROVED BY THE OWNER OF CLEARWATER ENGINEERING DEPARTMENT.

1.5. STANDARDS

THE AS-BUILT SURVEY SHALL MEET THE MINIMUM TECHNICAL STANDARDS PER CHAPTER 5J-17 AND THE CLEARWATER CAD STANDARDS SET FORTH BELOW. IN ADDITION TO LOCATING ALL IMPROVEMENTS THAT PERTAIN TO THE AS-BUILT SURVEY IT IS THE REQUIREMENT OF THE OWNER TO HAVE MINIMUM LOCATION POINTS AT EVERY CHANGE IN DIRECTION AND NO MORE THAN 100 FEET APART ON ALL PRESSURE PIPES.

1.6. OTHER

THE AS-BUILT DRAWINGS SHALL REFLECT ANY DIFFERENCES FROM THE ORIGINAL CONTRACT PLANS, IN THE SAME LEVEL OF DETAIL AND UNITS OF DIMENSIONS AS THE PLANS.

2. CAD STANDARDS

2.1. LAYER NAMING

2.1.1. PREFIXES AND SUFFIXES

Table with 2 columns: Prefix/Suffix and Description. DI: PREFIX DENOTES DIGITIZED OR SCANNED ENTITIES. EP: PREFIX DENOTES EXISTING POINTS - FIELD COLLECTED. EX: PREFIX DENOTES EXISTING ENTITIES - LINE WORK AND SYMBOLS. PR: PREFIX DENOTES PROPOSED ENTITIES - LINE WORK AND SYMBOLS. FU: PREFIX DENOTES FUTURE ENTITIES (PROPOSED BUT NOT PART OF THIS CONTRACT) - LINE WORK AND SYMBOLS. TX: SUFFIX DENOTES TEXT - USE FOR ALL TEXT, NO MATTER THE PREFIX.

2.1.2. LAYER NAMING DEFINITIONS:

Table with 2 columns: Layer Name and Description. GAS: GAS LINES AND APPURTENANCES. ELEC: POWER LINES AND APPURTENANCES. PHONE: TELEPHONE LINES AND APPURTENANCES. CABLE: CABLE TV LINES AND APPURTENANCES. BOC: CURBS. WALK: SIDEWALK. WATER: WATER LINES AND APPURTENANCES, SPRINKLERS. STORM: STORM LINES AND APPURTENANCES. TREES: TREES, BUSHES, PLANTERS. SANITARY: SANITARY LINES AND APPURTENANCES. FENCE: ALL FENCES. BLDG: BUILDINGS, SHEDS, FINISHED FLOOR ELEVATION. DRIVE: DRIVEWAYS. EOP: EDGE OF PAVEMENT WITHOUT CURBS. TRAFFIC: SIGNAL POLES, CONTROL BOXES. TOPBANK: TOP OF BANK. TOESLOPE: TOE OF SLOPE. TOPBERM: TOP OF BERM. TOEBERM: TOE OF BERM. SEAWALL: SEAWALL. CONCSLAB: CONCRETE SLABS. WALL: WALLS, EXCEPT SEAWALL. SHORE: SHORELINE, WATER ELEVATION. CL: CENTERLINE OF ROAD. CLD: CENTERLINE OF DITCH. CLS: CENTERLINE OF SWALE. CORNER: PROPERTY CORNERS, MONUMENTATION. BENCH: BENCHMARK, TEMPORARY BENCHMARKS.

OTHER LAYERS MAY BE CREATED AS REQUIRED, USING ABOVE FORMAT.

2.2. LAYER PROPERTIES

ALL LAYERS WILL USE STANDARD AUTOCAD LINETYPES, BYLAYER. ALL LAYERS WILL USE STANDARD AUTOCAD COLORS, BYLAYER. ALL TEXT WILL USE STANDARD AUTOCAD FONTS.

2.3. TEXT STYLES

TEXT STYLE FOR EX LAYERS WILL USE THE SIMPLEX FONT, OBLIQUE ANGLE OF 0°, AND A TEXT HEIGHT OF .008 TIMES THE PLOT SCALE. TEXT STYLE FOR PR AND FU LAYERS WILL USE THE SIMPLEX FONT, OBLIQUE ANGLE OF 22.5°, AND A TEXT HEIGHT OF .010 TIMES THE PLOT SCALE.

2.4. DELIVERABLES

THE AS-BUILT SURVEY SHALL BE PRODUCED ON BOND MATERIAL, 24" X 36" AT A SCALE OF 1"=20' UNLESS APPROVED OTHERWISE. THE CONSULTANT SHALL DELIVER TWO HARD COPIES AND ONE DIGITAL COPY OF ALL DRAWINGS. REQUESTED FILE FORMATS ARE: AUTODESK DWG AND ADOBE PDF FILES.

PLEASE ADDRESS ANY QUESTIONS REGARDING FORMAT TO MR. TOM MAHONY, AT (727) 562-4762 OR E-MAIL ADDRESS THOMAS.MAHONY@MYCLEARWATER.COM.

TREE PROTECTION SCOPE:

WHERE PROPOSED SITE IMPROVEMENTS INVOLVE ANY CONSTRUCTION ACTIVITIES ADJACENT TO ANY PROTECTED TREES, PARTICULARLY BENEATH THE DRIPLINE/CANOPY OF AN EXISTING TREE, THE CONTRACTOR WILL BE REQUIRED TO INSTALL THE CITY'S APPROVED TREE BARRICADES. THE REQUIRED CITY TREE BARRICADES MUST BE INSTALLED, INSPECTED AND APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE, PRIOR TO MOBILIZATION OR THE START OF CONSTRUCTION ACTIVITIES ADJACENT TO ANY PROTECTED TREE. CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO THE STAGING, STORAGE OR PARKING OF VEHICLES, EQUIPMENT, MATERIALS AND DEBRIS. IN ADDITION, AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST SHALL PERFORM, OR DIRECTLY SUPERVISE ANY AND ALL REQUIRED TREE TRIMMING/PRUNING ACTIVITIES REQUIRED BY THE CONSTRUCTION. THE CITY'S ENGINEERING REPRESENTATIVE FOR TREE PROTECTION ISSUES IS TIM KURTZ, SENIOR LANDSCAPE ARCHITECT, IN THE CITY OF CLEARWATER'S ENGINEERING DEPARTMENT AT (727) 562-4737.

TREE PROTECTION NOTES:

- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADHERING TO ALL TREE PROTECTION MEASURES REQUIRED BY THE CITY OF CLEARWATER'S CODES, ORDINANCES AND STANDARD SPECIFICATIONS. THIS WILL INCLUDE ALL TREE BARRICADES, ROOT PRUNING AND TREE TRIMMING/PRUNING ACTIVITIES. THESE REQUIREMENTS WILL APPLY WITHIN THE SPECIFIED "LIMITS OF WORK," AND WILL ALSO BE APPLICABLE IN ALL AREAS WHERE THE CONTRACTOR AND/OR HIS SUBCONTRACTORS STAGE, STORE OR PARK VEHICLES, EQUIPMENT, MATERIALS AND DEBRIS.
2. ALL TREE PRUNING AND/OR ROOT PRUNING ON EXISTING TREES TO BE PRESERVED WILL ONLY BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST. FURTHERMORE, ALL TREE WORK SHALL CONFORM TO THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 2001, AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS - TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (PRUNING) ANSI A-300.
3. WHERE CALLED FOR ON THE PLANS, INSTALL TREE BARRICADES, EROSION CONTROL/SILT FENCING OR OTHER APPROVED PROTECTIVE BARRIERS AROUND ALL TREES TO BE PRESERVED, PER CITY STANDARD DETAIL. WHERE APPLICABLE, PROTECTIVE BARRIERS WILL BE PLACED IN ROOT PRUNE TRENCHES.
4. PRIOR TO ANY FIELD CHANGES TAKING PLACE, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE POTENTIAL IMPACTS TO EXISTING TREES WITH HIS CERTIFIED ARBORIST, AND INCLUDE ANY AND ALL RECOMMENDED TREE PROTECTION MEASURES IN HIS PROPOSAL TO MODIFY THE APPROVED DESIGN. THE CITY'S ENGINEERING REPRESENTATIVE MUST APPROVE, IN WRITING, ANY CHANGES TO THE APPROVED DESIGN PRIOR TO IMPLEMENTATION OF SAID CHANGE.
5. THE CONTRACTOR WILL AVOID ANY OPEN EXCAVATIONS, FILL OR OTHER CONSTRUCTION ACTIVITIES WHENEVER POSSIBLE WITHIN THE "CRITICAL ROOT ZONE" OF ANY EXISTING TREE (I.E., UNDER THE DRIPLINE/CANOPY).
6. WHERE CONSTRUCTION ACTIVITIES ARE ANTICIPATED TO LAST FOR AN EXTENDED PERIOD OF TIME NEAR EXISTING TREES, THE CONTRACTOR SHALL INSTALL AND MAINTAIN CITY APPROVED TREE BARRICADES AS SHOWN IN THE STANDARD DETAILS AND APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE.
7. WOODCHIPS, MULCH OR ANOTHER CUSHIONING SURFACE MATERIAL APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE SHALL BE PLACED TO A MINIMUM DEPTH OF 10" OVER AREAS WHERE ROOTS ARE PRESENT AND CONSTRUCTION TRAFFIC OCCURS.
8. ALL TREE PROTECTION MEASURES SHALL REMAIN IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL THE CITY'S ENGINEERING REPRESENTATIVE AUTHORIZES REMOVAL.
9. THE CONTRACTOR WILL COORDINATE WITH THE CITY'S ENGINEERING REPRESENTATIVE, TIM KURTZ @ (727) 562-4737, TO OBTAIN APPROVAL IN ADVANCE OF ANY AND ALL WORK WITHIN THE CRITICAL ROOT ZONE OF ANY EXISTING TREE.

TREE LOCATION:

- 1. ALL TREE PRUNING AND/OR ROOT PRUNING ON EXISTING TREES TO REMAIN SHALL ONLY BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST. FURTHERMORE, ALL TREE WORK SHALL CONFORM TO THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 2001, AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS - TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (PRUNING) ANSI A300.
2. WHERE REQUIRED, INSTALL TREE BARRICADES, EROSION CONTROL/SILT FENCING OR OTHER APPROVED PROTECTIVE BARRIERS AROUND ALL TREES TO BE PRESERVED, PER CITY STANDARD DETAIL. WHERE APPLICABLE PROTECTIVE BARRIERS SHALL BE PLACED IN ROOT PRUNE TRENCHES.
3. CONSTRUCTION MATERIALS, VEHICLES, EQUIPMENT, SOILS, DEBRIS AND SUPPLIES SHALL NOT BE STORED WITHIN THE DRIP LINE/PROTECTIVE BARRIER AREA UNDER ANY TREE TO REMAIN.
4. VEHICLES UNDER ANY TREE SHALL NOT BE PARKED WITHIN THE DRIP LINE/PROTECTIVE BARRIER AREA OF THE TREE INCLUDING STAGING AREAS.
5. WOODCHIPS, MULCH OR ANOTHER CUSHIONING SURFACE MATERIAL APPROVED BY THE CITY'S REPRESENTATIVE SHALL BE PLACED TO A MINIMUM DEPTH OF 10 INCHES OVER AREAS WHERE ROOTS ARE PRESENT AND CONSTRUCTION TRAFFIC OCCURS.
6. ALL TREE PROTECTION MEASURES SHALL REMAIN IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL THE CITY'S REPRESENTATIVE AUTHORIZES REMOVAL.

ROOT PRUNING SCOPE:

WHERE PROPOSED CONSTRUCTION IMPROVEMENTS INVOLVE EXCAVATION AND/OR IMPACTS TO THE CRITICAL ROOT ZONE OF PROTECTED TREES, THE CONTRACTOR SHALL BE REQUIRED TO HAVE AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST PERFORM, OR DIRECTLY SUPERVISE ROOT PRUNING TO REDUCE THE IMPACTS OF CONSTRUCTION. THE CRITICAL ROOT ZONE IS EQUIVALENT TO THE TREE'S DRIPLINE. PRIOR TO ANY CLEARING, GRUBBING OR EXCAVATION ACTIVITIES, THE AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE GRUBBING OR EXCAVATION IMPACTS THE ROOT SYSTEM. ROOTS CAN BE PRUNED UTILIZING SPECIFIED ROOT PRUNING EQUIPMENT DESIGNED FOR THAT PURPOSE OR BY HAND DIGGING A TRENCH AND PRUNING ROOTS WITH A PRUNING SAW, CHAIN SAW OR OTHER EQUIPMENT DESIGNED FOR TREE PRUNING. ROOT PRUNING BY TRENCHING EQUIPMENT OR EXCAVATION EQUIPMENT IS STRICTLY PROHIBITED. ROOTS LOCATED IN THE CRITICAL ROOT ZONE THAT WILL BE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE PRUNED TO A MINIMUM DEPTH OF 18 INCHES BELOW EXISTING GRADE OR TO THE DEPTH OF THE PROPOSED IMPACT IF LESS THAN 18 INCHES FROM EXISTING GRADE. ON ALL ENGINEERING DEPARTMENT PROJECTS, THE CITY'S REPRESENTATIVE FOR ROOT PRUNING ISSUES IS TIM KURTZ, SENIOR LANDSCAPE ARCHITECT, WHO CAN BE REACHED AT (727) 562-4737.

ROOT PRUNING NOTES:

- 1. ROOT PRUNING CAN ONLY BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST.
2. ANY PROPOSED ROOT PRUNING TRENCHES SHALL BE IDENTIFIED (I.E. STAKED OR PAINTED) ON SITE, INSPECTED AND APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE PRIOR TO ACTUAL ROOT PRUNING.
3. ROOT PRUNING WILL BE PERFORMED AS FAR IN ADVANCE OF OTHER CONSTRUCTION ACTIVITIES AS IS FEASIBLE, BUT AT A MINIMUM WILL BE PERFORMED PRIOR TO ANY IMPACTS TO THE SOIL. ASSOCIATED TREE PROTECTION MEASURES SHOULD BE IMPLEMENTED UPON COMPLETION OF SAID ROOT PRUNING.
4. IF THERE IS A LIKELIHOOD OF EXCESSIVE WIND AND/OR RAIN EXCEPTIONAL CARE WILL BE TAKEN ON ANY ROOT PRUNING ACTIVITIES.
5. ROOT PRUNING WILL BE LIMITED TO A MINIMUM OF TWELVE INCHES PER ONE INCH OF THE TRUNK DIAMETER FROM THE TREE BASE. ANY EXCEPTION MUST BE APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE PRIOR TO SAID ROOT PRUNING.
6. ROOTS WILL BE CUT CLEANLY, AS FAR FROM THE TRUNK OF THE TREE AS POSSIBLE. ROOT PRUNING WILL BE DONE TO A MINIMUM DEPTH OF 18" FROM EXISTING GRADE, OR TO THE DEPTH OF THE DISTURBANCE IF LESS THAN 18".
7. ROOT PRUNING WILL BE PERFORMED USING A DOSCOIL ROOT CUTTING MACHINE OR EQUIVALENT. ALTERNATE EQUIPMENT OR TECHNIQUES MUST BE APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE, PRIOR TO ANY WORK ADJACENT TO TREES TO BE PRESERVED.
8. ROOT PRUNING WILL BE COMPLETED, INSPECTED AND ACCEPTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION OR OTHER IMPACTS TO THE CRITICAL ROOT ZONES OF TREES TO BE PROTECTED.
9. EXCAVATIONS IN AN AREA WHERE ROOT ARE PRESENT WILL NOT CAUSE THE TEARING OR RIPPING OF TREE ROOTS. ROOTS MUST FIRST BE CLEANLY SEVERED PRIOR TO CONTINUING WITH THE EXCAVATION, OR TUNNELED AROUND TO PREVENT DAMAGE TO THE ROOT.
10. TREE ROOTS WILL NOT BE EXPOSED TO DRYING OUT. ROOT ENDS MUST BE COVERED WITH NATIVE SOIL OR BURLAP AND KEPT MOIST UNTIL FINAL BACKFILL OR FINAL GRADES HAVE BEEN ESTABLISHED.
11. WHEN DEEMED APPROPRIATE (E.G., DURING PERIODS OF DROUGHT) THE CITY REPRESENTATIVE MAY REQUIRE A TEMPORARY IRRIGATION SYSTEM BE UTILIZED IN THE REMAINING CRITICAL ROOT ZONES OF ROOT PRUNED TREES.

NOTE:

THE ABOVE INFORMATION IS INTENDED FOR USE ON PROJECTS WHERE CONSTRUCTION IMPACTS TO EXISTING TREES ARE LIKELY OR EVEN UNAVOIDABLE. WHILE THIS INFORMATION COVERS A VARIETY OF SITUATIONS, IT CANNOT ADDRESS EVERY ONE. IN THE EVENT THERE ARE QUESTIONS OR CONCERNS REGARDING TREE PROTECTION ON A PROJECT, PLEASE CONTACT THE CITY'S PROJECT INSPECTOR. IF THEY ARE UNAVAILABLE, PLEASE CONTACT TIM KURTZ, SENIOR LANDSCAPE ARCHITECT IN THE PUBLIC WORKS ADMINISTRATION AT 727-562-4737.

EROSION AND SEDIMENT CONTROL:

- 1. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY STREETS, STORM SEWERS, AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN THE SYSTEM TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. THE CONTRACTOR IS REQUIRED TO OBTAIN NPDES, SWPPP PERMITS AND MAINTAIN BMPs.
2. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL RETENTION AND DETENTION FACILITIES AND ALL LANDSCAPE BUFFERS, THROUGH THE DURATION OF THE PROJECT, AND UNTIL THE WORK IS ACCEPTED BY THE OWNER. ALL DISRUPTED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.

DEWATERING:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING, TESTING AND OBTAINING ANY PERMITS ASSOCIATED WITH DEWATERING ACTIVITIES AS OUTLINED IN THE CONTRACT DOCUMENTS, INCLUDING FEES FOR SUCH.
2. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY, AND SHALL ROUTE DISCHARGE WATER IN SUCH A MANNER TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM SITE.
4. IF DEWATERING WILL BE NECESSARY FOR EXCAVATION OR UTILITY INSTALLATION, THE CONTRACTOR SHALL OBTAIN A STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY UNCONTAMINATED SITE ACTIVITY (FDEP DOCUMENT 62-621.300(2)). COPIES OF THE PERMIT AND REQUIRED TEST RESULTS SHALL BE SUBMITTED TO THE CITY OF CLEARWATER ENGINEERING DEPARTMENT. IF THE CONTRACTOR IS CONSIDERING THE CITY STORMWATER SYSTEM AS A POINT OF DISCHARGE, PRIOR APPROVAL IS REQUIRED.
5. FOR MORE DETAILS ON CITY DEWATERING REQUIREMENTS, REFER TO PARAGRAPH 12 OF SECTION IV - TECHNICAL SPECIFICATIONS FROM THE CONTRACT DOCUMENTS.

Call Local Public Utility Notification Center. 1-800-432-4770. MIN. 48 HOURS BEFORE YOU EXCAVATE. CLEARWATER PUBLIC UTILITIES RECLAIMED WATER: JERRY WELLS (727) 562-4960 Ext. 7226. CLEARWATER PUBLIC UTILITIES WASTEWATER COLLECTION: ANDREW BLAUVELT (727) 562-4960 Ext. 7216. CLEARWATER PUBLIC UTILITIES POTABLE WATER: TERRY LABELLE (727) 562-4960 Ext. 7234. PINELLAS COUNTY UTILITIES: JAY PERKINS (727) 464-3536. PINELLAS COUNTY PUBLIC WORKS: GENE GROSSON (727) 464-3404. BRIGHTHOUSE NETWORKS,LLC: DON ANTHONY (727) 329-2810. FLORIDA DEPARTMENT OF TRANSPORTATION: CHRISTOPHER GREGORY (727) 570-5101. SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT: CHAZ LARCHE (813) 385-7481 x2092. CLEARWATER GAS: BRUCE GRIFFIN (727) 562-4900 Ext. 7407. FPL FIBERNET: DANNY HASKETT (305) 552-2024. PINELLAS COUNTY HWY/ENG: JORGE QUINTAS (727) 464-8900. LEVEL 3 COMMUNICATION LLC: RICK MILLER (512) 742-1479. MCI: DEAN BOYERS (972) 739-6016. VERIZON FLORIDA, INC.: RAUL OJEDA, OSP ENGINEERING (727) 562-1130. VERIZON FLORIDA, INC.: FIOS FIBER OPTIC: PETER BRENNAN (727) 462-1760. KNOLOGY BROADBAND OF FLORIDA: JAY YOUNG (727) 229-0856. FIBERLIGHT LLC: CHRIS PANICONE (954) 596-5144. P.E.A. Inc. (FOR AT&T AND TELEPORT): STEFAN ERIKSSON (407) 578-8000. TELECOMMUNICATIONS MANAGEMENT PINELLAS: CHRIS DUSCHI (727) 464-3490. PROGRESS ENERGY DISTRIBUTION: NICK KOULANOS (727) 562-5639. PROGRESS ENERGY TRANSMISSION: KAYA HALL (407) 942-9243. PROGRESS ENERGY HOT OIL: ANDY DEMPSEY (727) 827-6114. FLORIDA GAS TRANS: JOSEPH SANCHEZ (407) 838-7171.

ISSUED FOR BID 08/01/2019

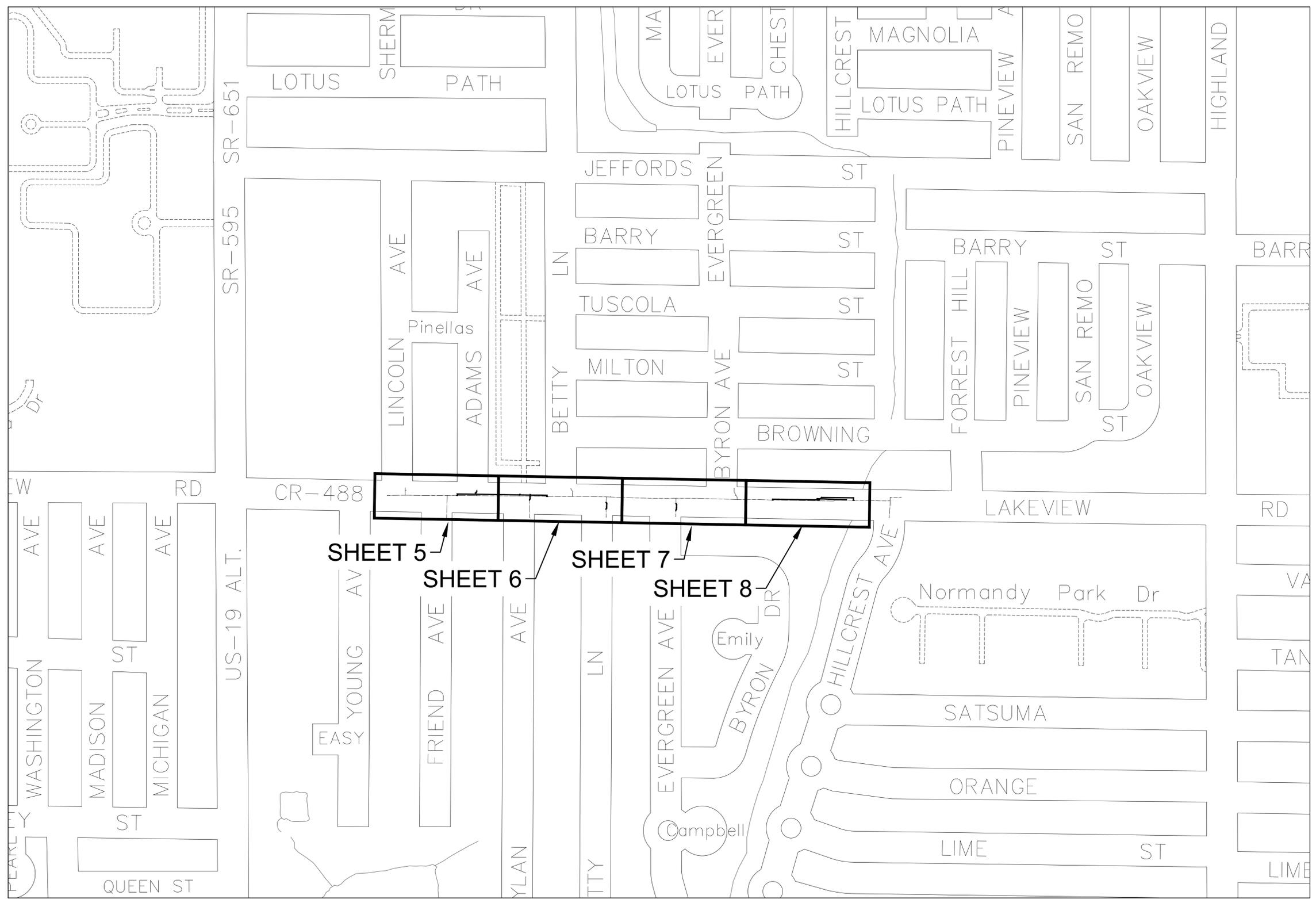
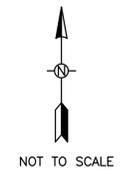
RECORD DRAWINGS table with columns: SURVEYED BY, DRAWN BY, REVIEWED BY, PROJECT ENGINEER, DATE, APPROVED BY, ENGINEER, DATE, REVISION, BY, DATE.

CITY OF CLEARWATER, FLORIDA ENGINEERING DEPARTMENT 100 S. MYRTLE AVE. CLEARWATER, FL 33756

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LAKEVIEW ROAD UTILITY RELOCATION PINELLAS COUNTY JPA GENERAL NOTES

Table with columns: DWG NAME, FIELD BOOK, SURVEYED BY, SCALE, CONTRACT NO., DATE DRAWN, DRAWN BY, HORIZ., JOB NO., DESIGNED BY, CHECKED BY, SHEET NO., APPROVED BY.



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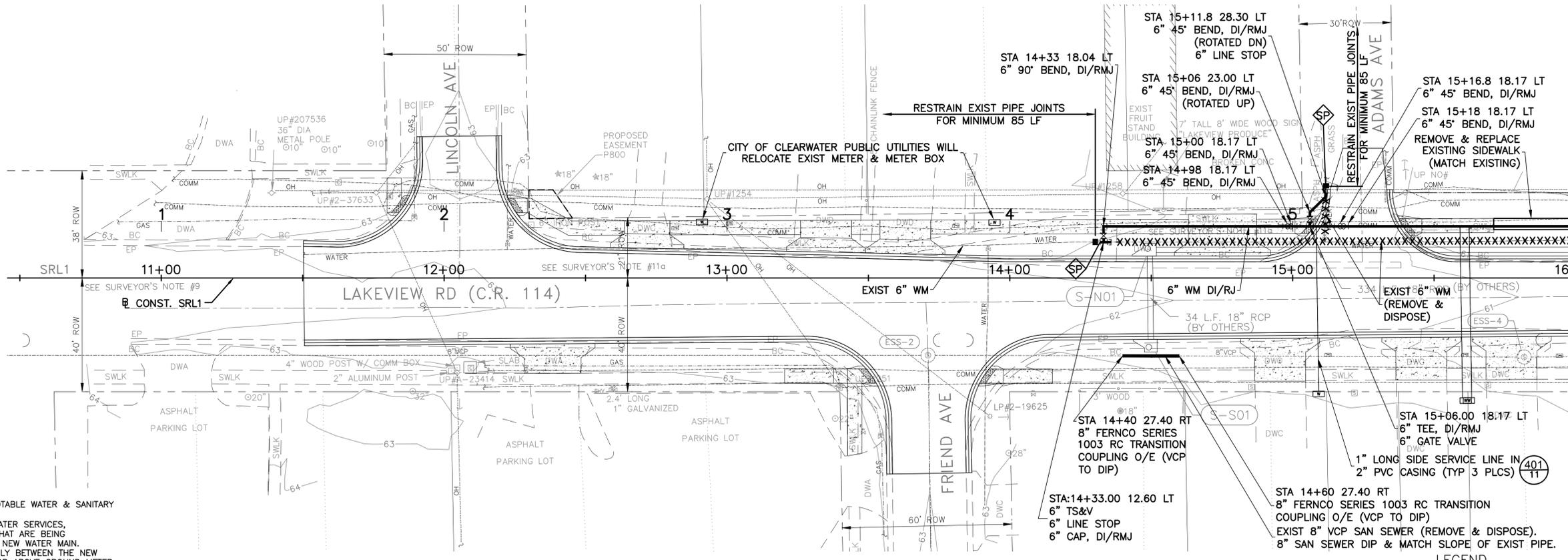
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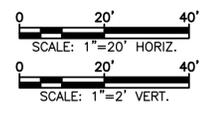
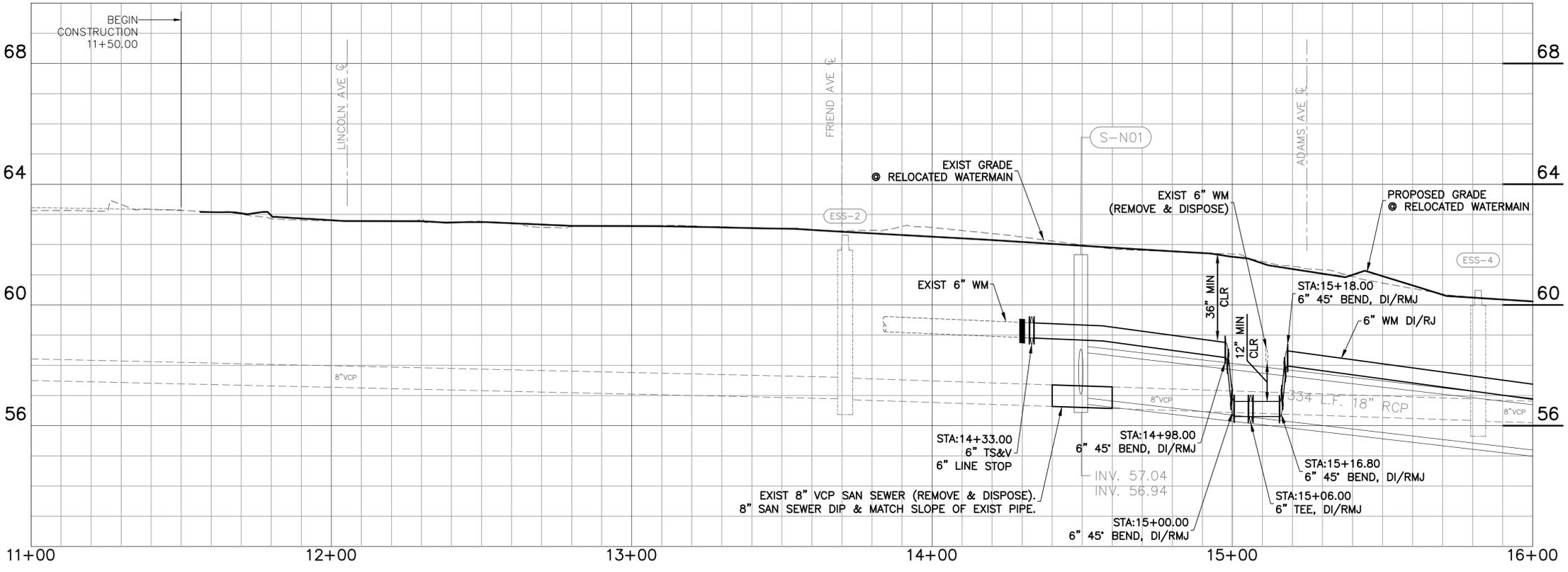
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LAKEVIEW ROAD
 UTILITY RELOCATION PINELLAS COUNTY JPA
 KEY SHEET

DWG NAME: 4 KEY SHEET.DWG	FIELD BOOK: N/A	SURVEYED BY: CITY OF CLW	SCALE: VERT. SEE ABOVE
CONTRACT NO.: 19-0013-UT	DATE DRAWN: 8/1/19	DRAWN BY: J. SCHEUERMAN	HORIZ. SEE ABOVE
JOB NO.: 60599552	DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO.: 4 OF 14
APPROVED BY:			



- NOTES:**
- 1) MAINTAIN UNINTERRUPTED SERVICE TO ALL POTABLE WATER & SANITARY SEWER SERVICE CONNECTIONS.
 - 2) ALL SHORT SIDE AND LONG SIDE POTABLE WATER SERVICES, CONNECTED TO SECTIONS OF WATER MAINS THAT ARE BEING RELOCATED, SHALL BE TRANSFERRED TO THE NEW WATER MAIN. CONTRACTOR TO F&I A NEW SERVICE ASSEMBLY BETWEEN THE NEW WATER MAIN AND THE EXISTING METER BOX OR ABOVE GROUND METER ASSEMBLY. NEW SERVICE ASSEMBLY SHALL MATCH THE SIZE OF THE EXISTING AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH INDEX 401 ON SHEET 11 AND THE RESPECTIVE BID ITEM IN SECTION 01630 OF THE TECHNICAL SPECIAL PROVISIONS. PRIOR TO BEGINNING OF THIS WORK, COORDINATE WITH CITY OF CLEARWATER PUBLIC UTILITIES NUMBER, SIZE, AND LOCATION OF THE SERVICES TO BE RECONNECTED. ONCE FDEP CLEARANCE FOR THE NEW SERVICE IS OBTAINED, CITY OF CLEARWATER PUBLIC UTILITIES WILL CONNECT THE NEW SERVICE ASSEMBLY TO THE EXISTING METER OR WILL TRANSFER CUSTOMER SIDE SERVICE TO NEW METER.
 - 3) EXISTING PIPE SHALL BE RESTRAINED WITH SERIES 1100 SD SPLIT RING MEGALUG RESTRAINTS BY EBAA IRON.
 - 4) CONTRACTOR TO COORDINATE WITH CITY OF CLEARWATER PUBLIC UTILITIES SCHEDULE TO INSTALL LINE STOPS ON EACH SECTION OF WATERMAIN TO BE RELOCATED & THE OPERATION OF ANY VALVES OWNED BY THE CITY OF CLEARWATER.
 - 5) PAVEMENT & RESTORATION SHALL BE PER THE ROADWAY PLANS DEVELOPED BY L.A.N. INC.
 - 6) CITY OF CLEARWATER PUBLIC UTILITIES WILL RETAIN OWNERSHIP OF REMOVED FIRE HYDRANTS.



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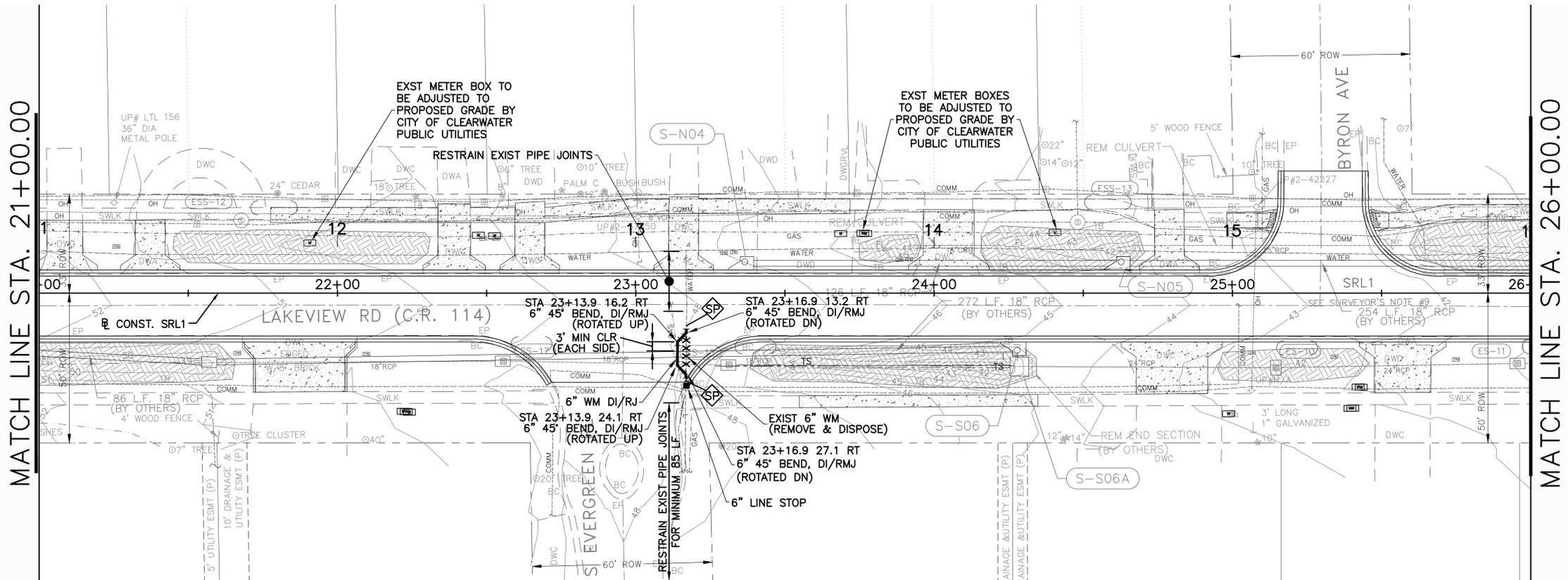
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PLAN (1)

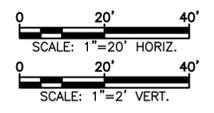
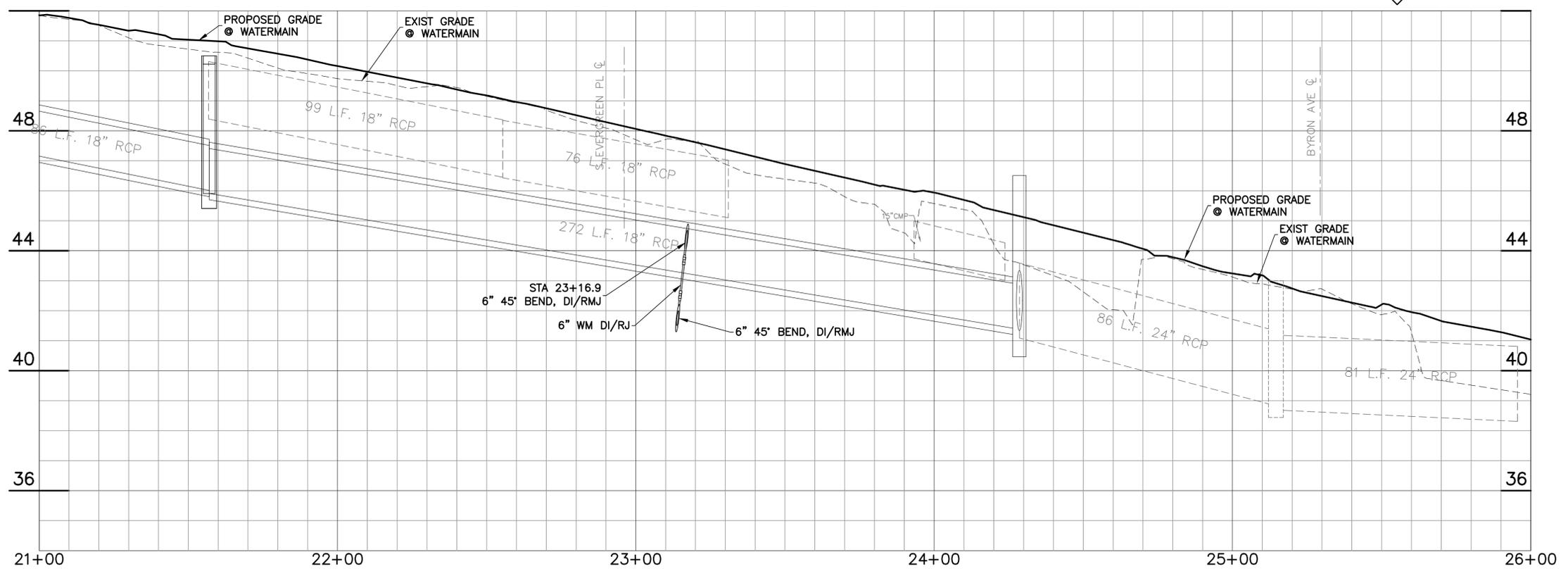
DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
5 PLAN & CORROSION CONTROL	N/A	CITY OF CLW	VERT. SEE ABOVE
19-0013-UT	DATE DRAWN: 9/23/19	DRAWN BY: J. SCHEURMAN	HORIZ. SEE ABOVE
JOB NO: 60599552	DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO: 5 OF 14
APPROVED BY:			

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- NOTES:**
- 1) MAINTAIN UNINTERRUPTED SERVICE TO ALL POTABLE WATER & SANITARY SEWER SERVICE CONNECTIONS.
 - 2) ALL SHORT SIDE AND LONG SIDE POTABLE WATER SERVICES, CONNECTED TO SECTIONS OF WATER MAINS THAT ARE BEING RELOCATED, SHALL BE TRANSFERRED TO THE NEW WATER MAIN. CONTRACTOR TO F&I A NEW SERVICE ASSEMBLY BETWEEN THE NEW WATER MAIN AND THE EXISTING METER BOX OR ABOVE GROUND METER ASSEMBLY. NEW SERVICE ASSEMBLY SHALL MATCH THE SIZE OF THE EXISTING AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH INDEX 401 ON SHEET 11 AND THE RESPECTIVE BID ITEM IN SECTION 01630 OF THE TECHNICAL SPECIAL PROVISIONS. PRIOR TO BEGINNING OF THIS WORK, COORDINATE WITH CITY OF CLEARWATER PUBLIC UTILITIES NUMBER, SIZE, AND LOCATION OF THE SERVICES TO BE RECONNECTED. ONCE FDEP CLEARANCE FOR THE NEW SERVICE IS OBTAINED, CITY OF CLEARWATER PUBLIC UTILITIES WILL CONNECT THE NEW SERVICE ASSEMBLY TO THE EXISTING METER OR WILL TRANSFER CUSTOMER SIDE SERVICE TO NEW METER.
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LEGEND
 BACTERIOLOGICAL SAMPLING POINT



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ENGINEER	DATE

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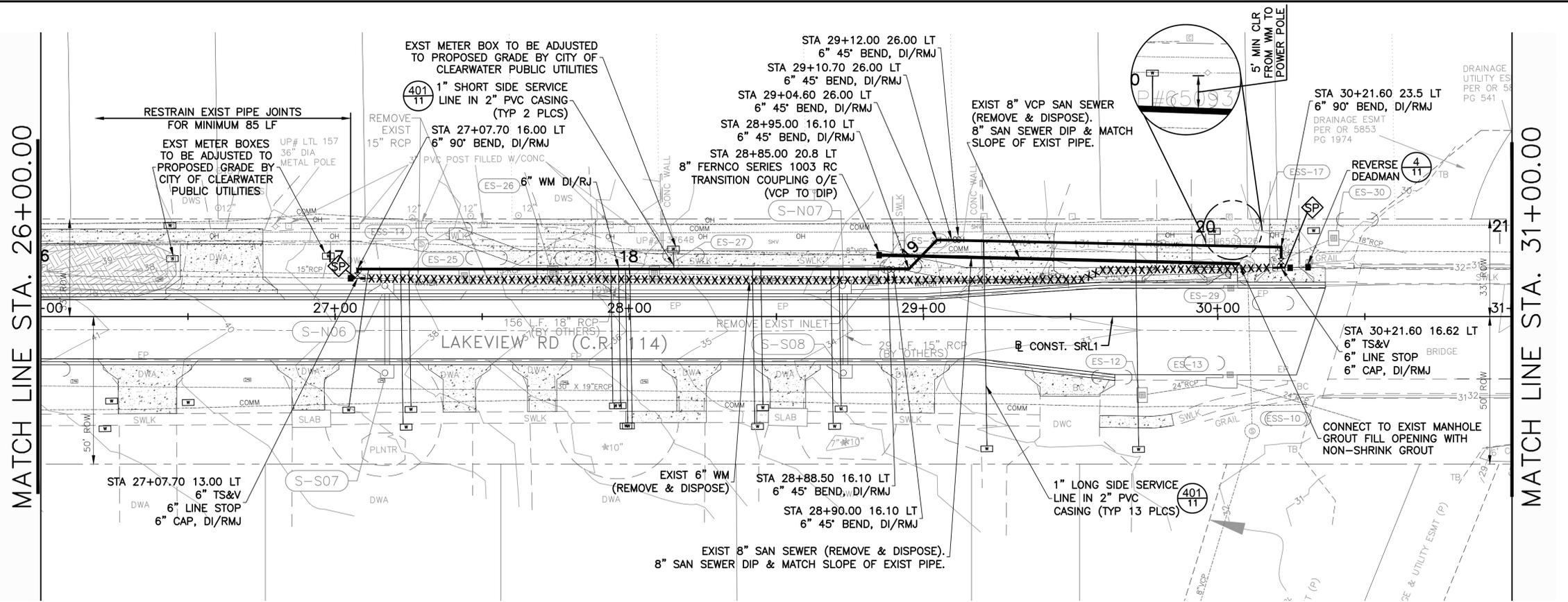
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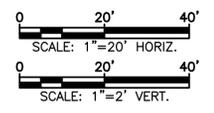
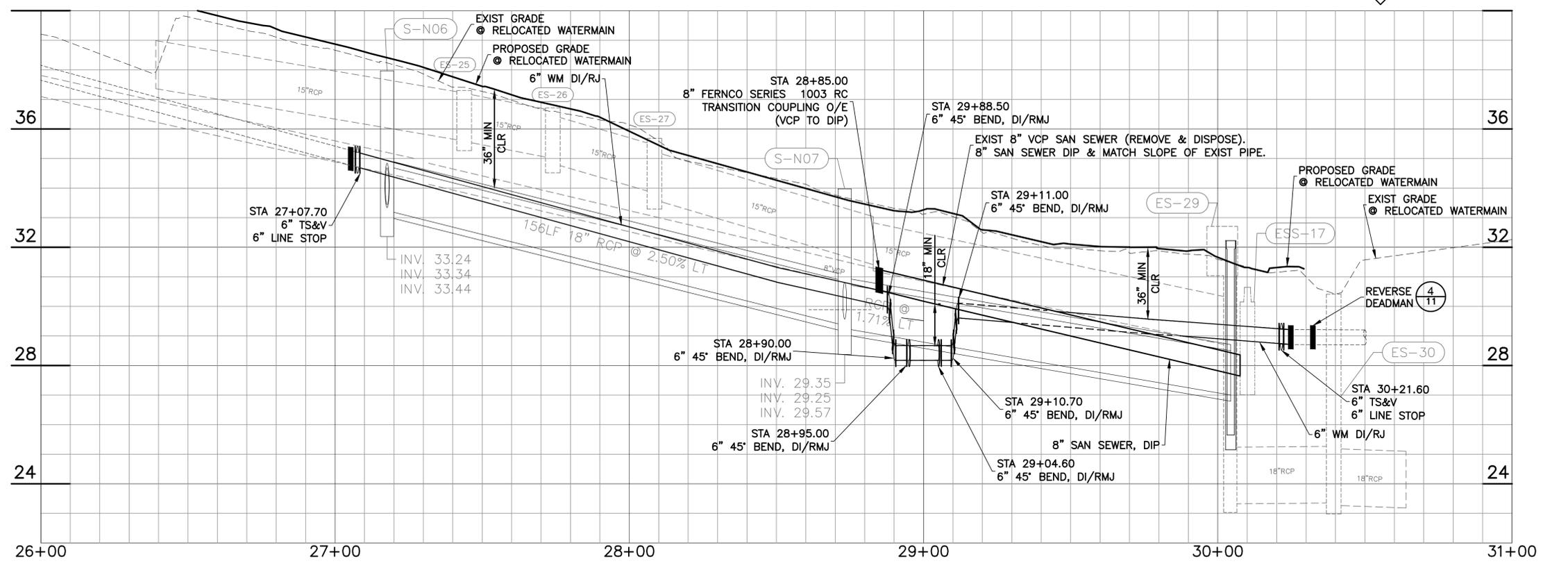
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 UTILITY RELOCATION PINELLAS COUNTY JPA
 PLAN (3)

DWG NAME: 5 PLAN & CORROSION CONTROL	FIELD BOOK: N/A	SURVEYED BY: CITY OF CLW	SCALE: VERT. SEE ABOVE
DATE DRAWN: 9/23/19	DRAWN BY: J. SCHEUERMAN	CHECKED BY: D. WILCOX	SHEET NO.: 7 OF 14
JOB NO.: 60599552	DESIGNED BY: B. HANDJIEV	APPROVED BY:	

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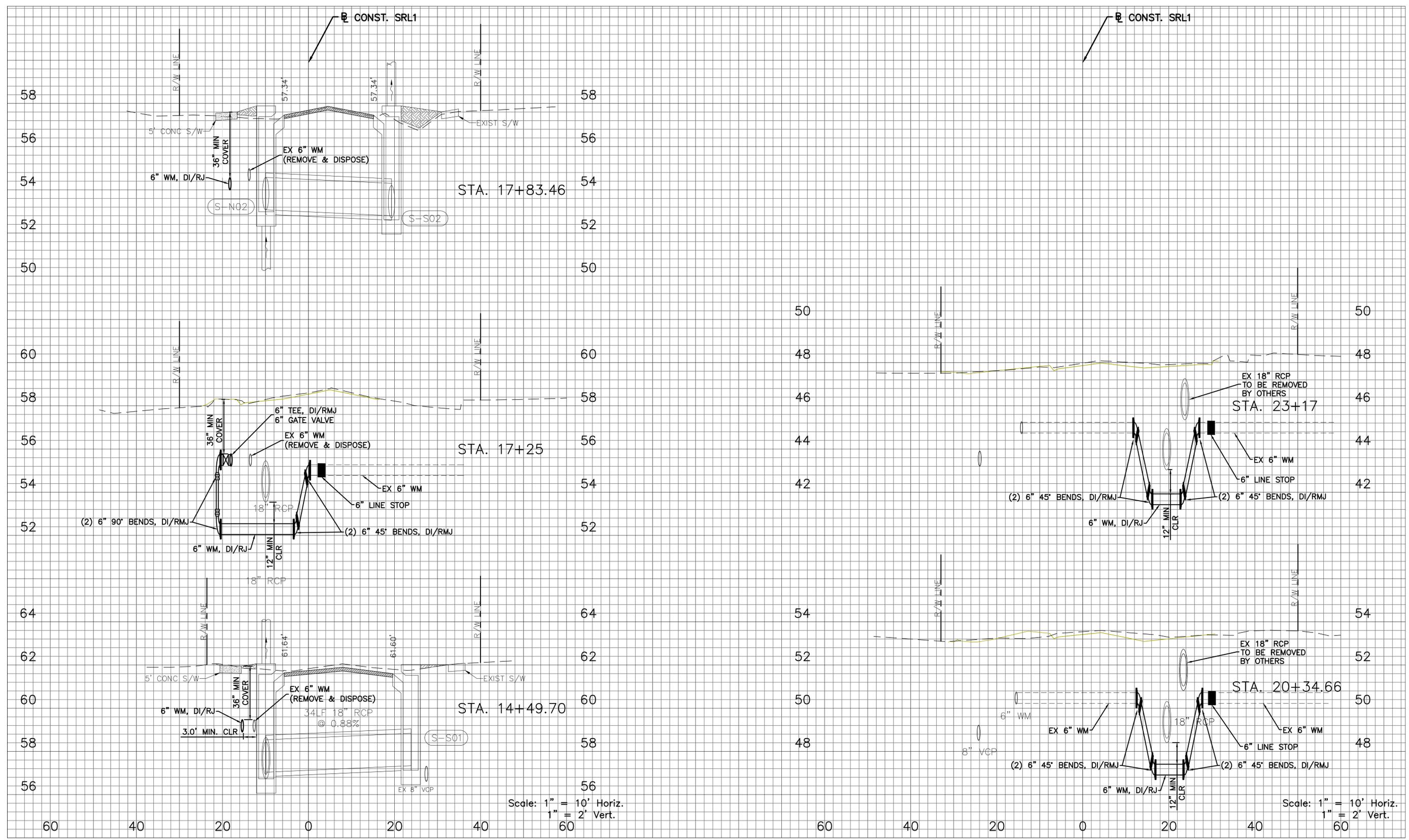
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 PLAN (4)

DWG NAME: 5 PLAN & CORROSION LOG	FIELD BOOK: N/A	SURVEYED BY: CITY OF CLW	SCALE: VERT. SEE ABOVE
JOB NO.: 60599552	DATE DRAWN: 9/23/19	DRAWN BY: J. SCHEUERMAN	HORIZ. SEE ABOVE
DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO.: B	OF 14

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REVIEWED BY:	DATE:
PROJECT ENGINEER	DATE
APPROVED BY:	DATE
ENGINEER	DATE

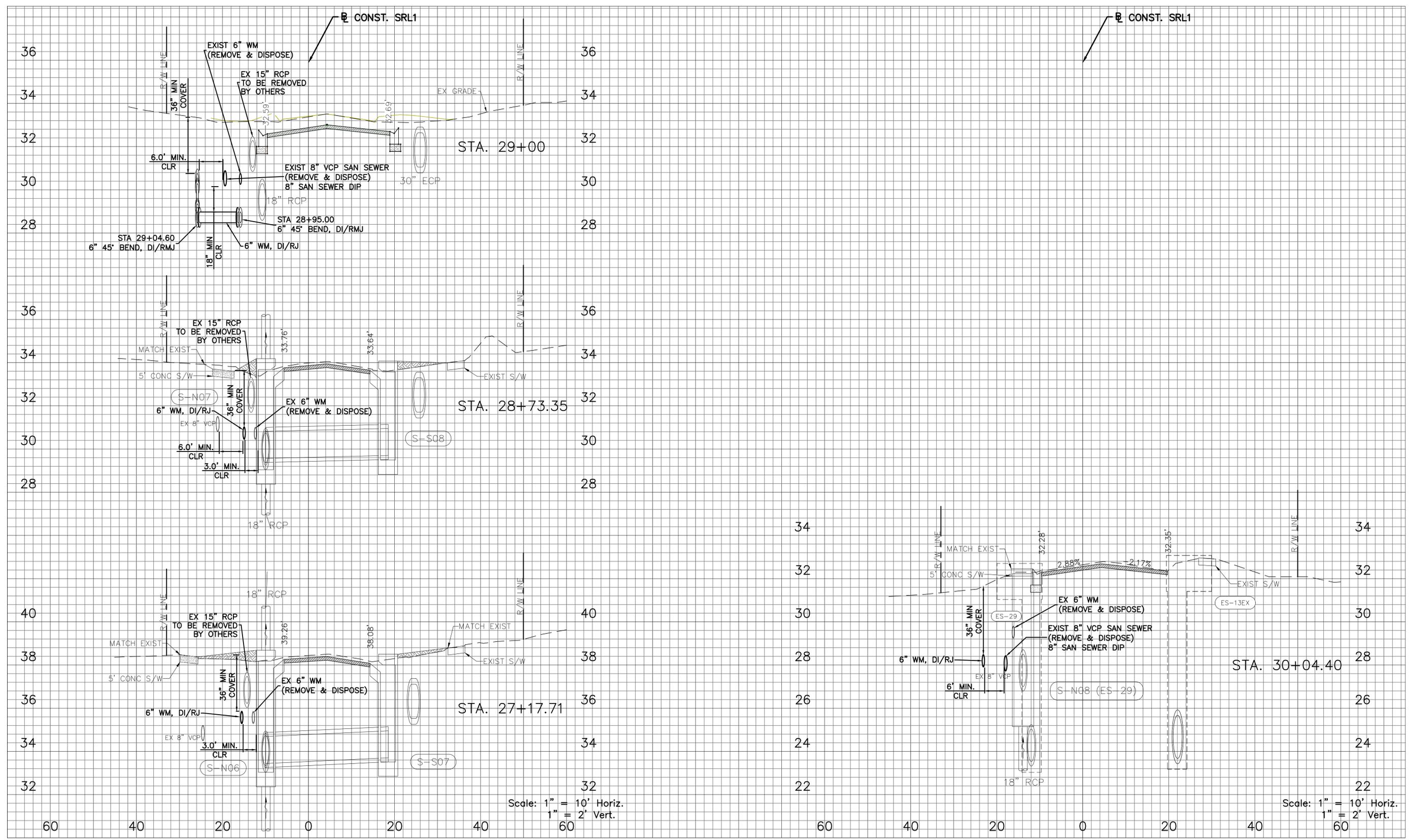
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LAKEVIEW ROAD
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 CROSS SECTION (1)

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
X-SECTION.DWG	N/A	CITY OF CLW	VERT. SEE ABOVE
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ.
19-0013-UT	9/11/19	J. SCHEUERMAN	SEE ABOVE
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
60599552	B. HANDJIEV	D. WILCOX	9 OF 14
APPROVED BY:			



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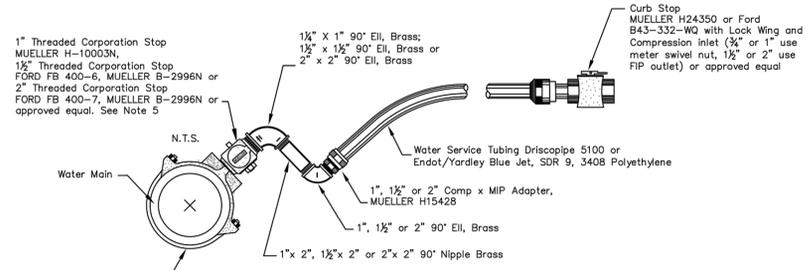
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 CROSS SECTION (2)

DWG NAME: X-SECTION.DWG	FIELD BOOK: N/A	SURVEYED BY: CITY OF CLW	SCALE: VERT. SEE ABOVE
CONTRACT NO.: 19-0013-UT	DATE DRAWN: 9/11/19	DRAWN BY: J. SCHEUERMAN	HORIZ. SEE ABOVE
JOB NO.: 60599552	DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO.: 10 OF 14
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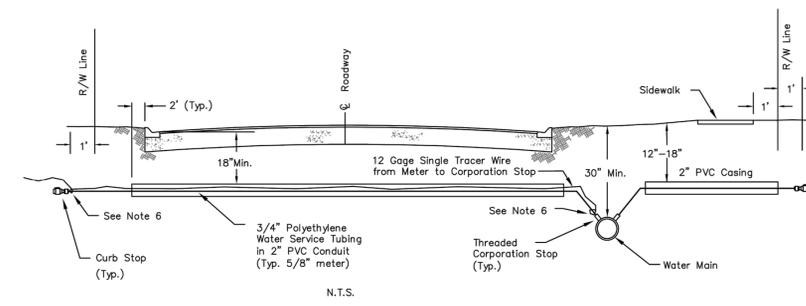
NOTES:

- Contractor to stake service connections, which are to be 2 FT. from side lot line on either side of lot (See Index 401 Sheet 3 of 3). These services to be consistent within the subdivision. Driveways shall not be built over meters or service taps. Meters or service taps shall not be installed within or under driveways.
- All lines shall be chlorinated and pressure tested (Test for two hours @ 150 P.S.I.) under the direction of the Utilities Department. After successful completion of the testing and chlorination, the pressure shall remain on the system at all times.
- Ten (10) FT. separation required between parallel water & sanitary sewer lines.
- Saddle is required for all service connections to mains.
- Taps should be made on a 45° angle from top of pipe. For cover 12" or less, tap shall be made on a 90° angle from top of pipe.
- Minimum distance between service taps to be not less than 36".

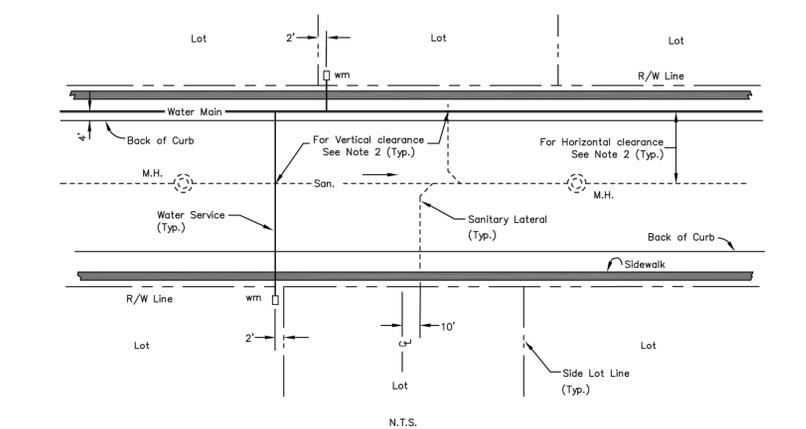
1/14	ADDED PART NUMBERS	P.L.T.	CITY OF CLEARWATER	INDEX NO.	PAGE NO.
8/09	CHG. CORP STOP NO.	P.S.	ENGINEERING DEPARTMENT	401	1 of 3
DATE	REVISION DESCRIPTION	APP.	WATER DETAILS	LATEST REVISION	2/22/2016

NOTES:

- 2" PVC casing shall extend to customer side of sidewalk.
- PVC conduit to be min. 18" below the surface measured from the top of face of curb.
- Water Mains to be min. 30" below grade and approx. 4' back of curb.
- Curb Stop to be located approx. 1 foot back of Right-of-Way.
- Service line to be min. 12" and max. 18" below grade.
- Connect 12 gage Tracer Wire with tie wraps at Corporation Stop and at Curb Stop. Provide 1 foot minimum excess length of Tracer Wire in Meter Box.



DATE	REVISION DESCRIPTION	APP.	CITY OF CLEARWATER	INDEX NO.	PAGE NO.
			ENGINEERING DEPARTMENT	401	2 of 3
			WATER DETAILS	LATEST REVISION	2/22/2016



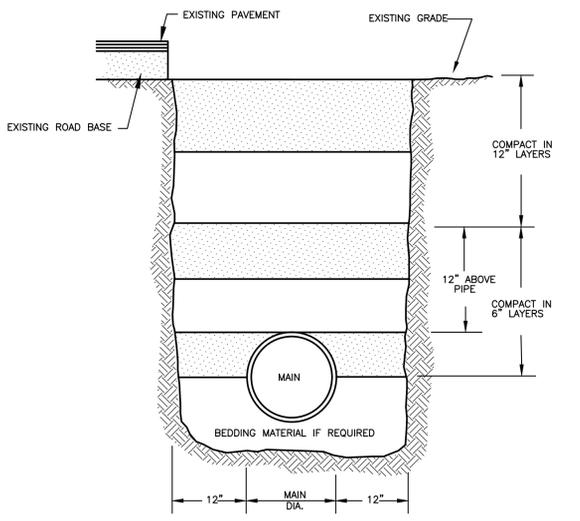
NOTES:

- See Index 401, Sheet 1 of 3, Note 2 regarding Water Meter and Service Tap locations under driveways.
- Vertical and horizontal clearance between potable water main and sanitary sewer lateral at each intersection to be per FDEP requirements. (See F.A.C. Rule 62-555)

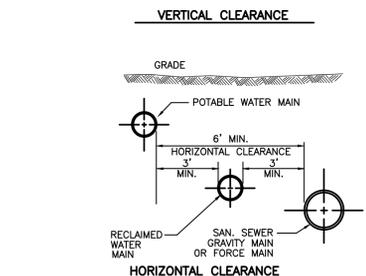
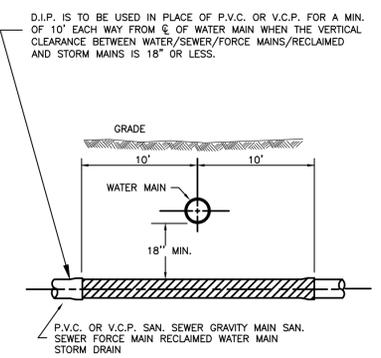
8/27/16	Removed Note 1; Added Note 2	R.F.	CITY OF CLEARWATER	INDEX NO.	PAGE NO.
DATE	REVISION DESCRIPTION	APP.	ENGINEERING DEPARTMENT	401	3 of 3
			WATER DETAILS	LATEST REVISION	2/22/2016

NOTE:

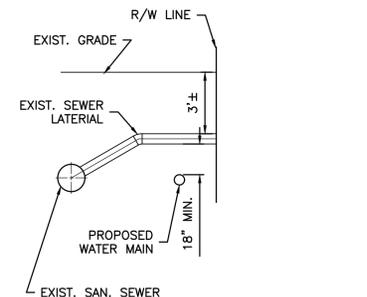
- TRENCHES LOCATED UNDER PAVEMENT OR INSIDE THE 2" HORIZONTAL TO 1" VERTICAL SLOPE, DOWNWARD FROM ROADWAY SHOULDER OR THE BACK OF CURB AND, FROM SPRING LINE TO BOTTOM OF SUB-GRADE OR THE FINISHED SURFACE OF THE EMBANKMENT, AS APPROPRIATE, SHALL BE COMPACTED TO A DENSITY OF 100% AS DETERMINED BY AASHO T-99 METHOD C.
- TRENCHES LOCATED OUTSIDE OF THE 2" HORIZONTAL TO 1" VERTICAL SLOPE DOWNWARD FROM ROADWAY SHOULDER OR THE BACK OF CURB AND WHERE NO VEHICULAR TRAFFIC WILL PASS OVER THE TRENCHES, BACK FILL SHALL BE COMPACTED TO A DENSITY APPROXIMATELY EQUAL TO THAT SOIL ADJACENT TO THE TRENCH BUT NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY AASHO T-99 METHOD-C.
- REPLACEMENT OF THE PAVED SURFACES SHALL BE MADE IN ACCORDANCE TO APPLICABLE LOCAL REGULATIONS.



1 TRENCH BACKFILL DETAIL



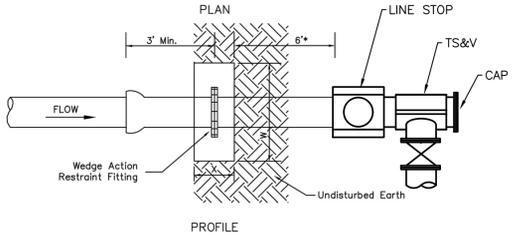
2 STANDARD DETAIL MAIN & CLEARANCES



NOTE:

- CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EACH LATERAL THAT WILL BE CROSSED BY NEW RECLAIMED WATER MAIN

3 TYPICAL LATERAL CROSSING DETAIL

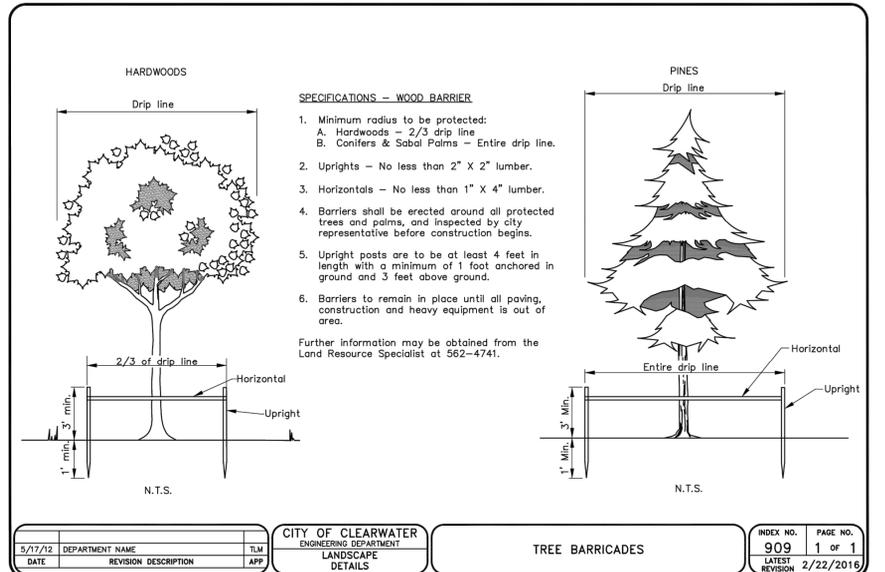


SIZE (D)	4"	6"	8"	12"	16"	20"	24"
THRUST (lbs.)	3439	7104	12,223	26,002	45,180	69,624	99,330
BEARING AREA (ft.2)	2.58	5.33	9.17	19.50	33.89	52.22	74.50
CONCRETE (yds.3)	0.15	0.31	0.71	1.51	3.29	5.07	7.23
H (ft.)	1.6	2.4	3.1	4.5	6.0	7.4	8.8
W (ft.)	1.6	2.4	3.1	4.5	6.0	7.4	8.8
X (ft.)	1.5 Min.	1.5 Min.	2.0 Min.	2.0 Min.	2.5 Min.	2.5 Min.	2.5 Min.

NOTES:

- Concrete shall be kept at sufficient distance from joint for removal of all joint accessories including bolts.
- All bearing surfaces to be carried to undisturbed soil.
- This table shows the minimum size thrust blocks for soil bearing pressure of 2000 psf and an internal pressure of 190 psi. Cover to T.O.P. is 5 feet for 12" and smaller mains; 4 feet for 16" and larger mains.
- Poor and wet soil (silty soils, clay, muck and peat) will require larger thrust blocks, as directed by the Engineer.
- Fittings shall be completely polywrapped prior to pouring thrust blocks.
- Closest distance to line stop for deadman to remain effective.

4 DEADMAN THRUST BLOCK DETAIL



SPECIFICATIONS - WOOD BARRIER

- Minimum radius to be protected:
 - Hardwoods - 2/3 drip line
 - Conifers & Sabal Palms - Entire drip line.
- Uprights - No less than 2" X 2" lumber.
- Horizontals - No less than 1" X 4" lumber.
- Barriers shall be erected around all protected trees and palms, and inspected by city representative before construction begins.
- Upright posts are to be at least 4 feet in length with a minimum of 1 foot anchored in ground and 3 feet above ground.
- Barriers to remain in place until all paving, construction and heavy equipment is out of area.

Further information may be obtained from the Land Resource Specialist at 562-4741.

3/17/12	DEPARTMENT NAME	ILM	CITY OF CLEARWATER	INDEX NO.	PAGE NO.
DATE	REVISION DESCRIPTION	APP.	LANDSCAPE DETAILS	909	1 of 1
				LATEST REVISION	2/22/2016

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REVIEWED BY:	PROJECT ENGINEER	DATE	
APPROVED BY:	ENGINEER	DATE	

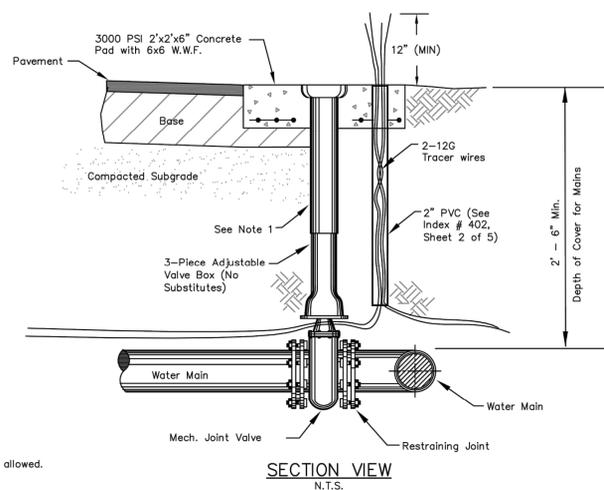
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 Florida Engineering Number: 000002

LAKEVIEW ROAD
 UTILITY RELOCATION PINELLAS COUNTY JPA
 DETAILS (1)

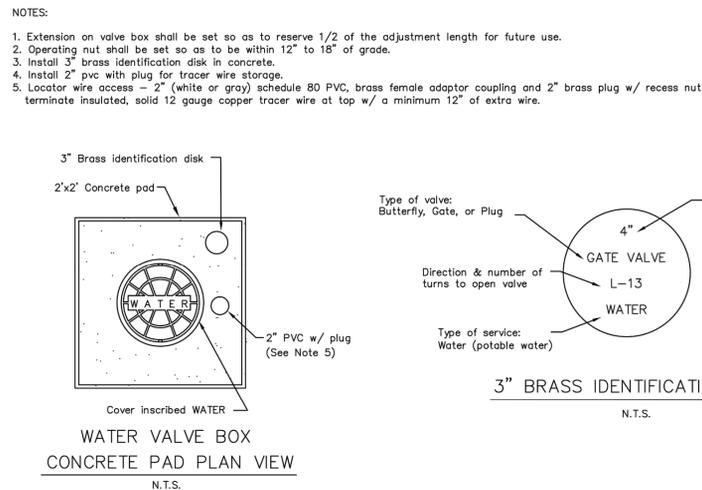
DWG NAME	FIELD BOOK	SURVEYED BY	SCALE
10 DETAILS.DWG	N/A	CITY OF CLW	VERT. SEE ABOVE
CONTRACT NO.	DATE DRAWN	DRAWN BY	HORIZ. SHEET NO.
19-0013-UT	8/1/19	J. SCHEUERMAN	11 OF 14
JOB NO.	DESIGNED BY	CHECKED BY	
60599552	B. HANDJIEV	D. WILCOX	
APPROVED BY			



NOTE:
1. No PVC risers allowed.

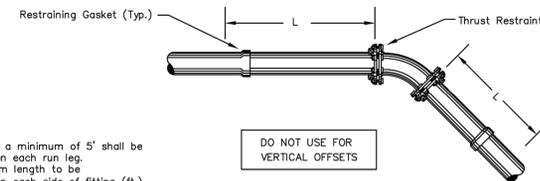
SECTION VIEW
N.T.S.

CITY OF CLEARWATER ENGINEERING DEPARTMENT		TYPICAL VALVE AND BOX SETTING SECTION VIEW	INDEX NO. 402	PAGE NO. 1 OF 4
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		



WATER VALVE BOX
CONCRETE PAD PLAN VIEW
N.T.S.

CITY OF CLEARWATER ENGINEERING DEPARTMENT		WATER VALVE BOX CONCRETE PAD PLAN VIEW	INDEX NO. 402	PAGE NO. 2 OF 4
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		



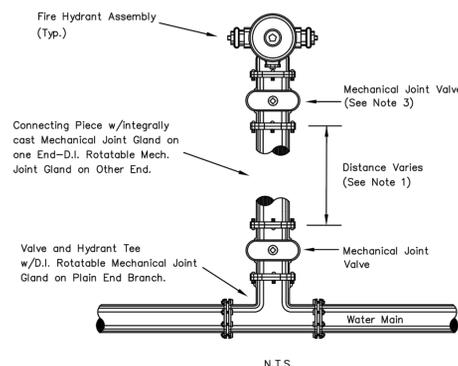
On all tees, a minimum of 5' shall be restrained on each run leg.
L = Minimum length to be restrained on each side of fitting (ft.)
* = Contact engineer for values
Figures based on 30' bury depth, 150 PSI test pressure
Figures don't apply to poly wrapped pipe

NOM. PIPE SIZE	ELBOWS (deg.)				VALVE TEES BRANCH	DEAD END
	11.25	22.50	45	90		
LENGTH IN FEET (L)						
4"	2	3	7	17	18	30
6"	2	5	10	23	30	42
8"	3	6	12	30	42	54
12"	4	8	17	42	☆	76
16"	5	10	22	53	☆	97
20"	6	13	26	63	☆	117

The following joints must be restrained in all applications:
1. Bend - inlet and outlet
2. Tee - all branches
3. Offsets - inlet and outlet
4. Caps
5. Plugs
6. Dead ends
7. Hydrant runouts shall be restrained as dead ends

NOTES:
1. Thrust restraint on slipjoint ductile iron pipe shall be U.S. Pipe Field Lock Gaskets for Tylon Joint Pipe or American Fast-Drip Gaskets for American Fastite Pipe.
2. Thrust restraint on Ductile Iron Fittings shall be provided by the use of Megalug Retainers and mechanical joint fittings.

CITY OF CLEARWATER ENGINEERING DEPARTMENT		DUCTILE IRON PIPE THRUST RESTRAINING	INDEX NO. 403	PAGE NO. 2 OF 2
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		

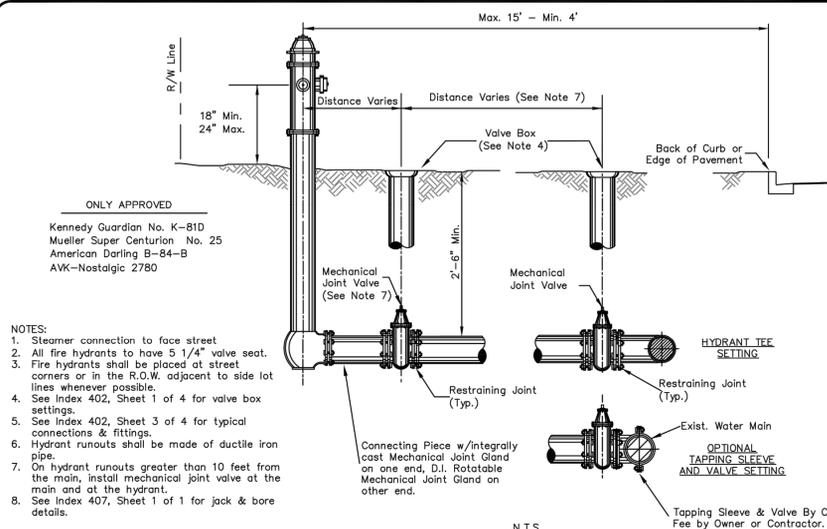


NOTES:
1. On hydrants requiring runout last two joints must be restrained (See Detail 403 Sheet 2 of 2).
2. Hydrant runouts shall be maximum 10 feet or less from water main.
3. On hydrant runouts greater than 10 feet, install mechanical joint valve at the main and at the hydrant.

ONLY APPROVED
Kennedy Guardian No. K-81D
Mueller Super Centurion No. 25
American Darling B-84-B
AVK-Nostalgic 2780

TYPICAL FIRE HYDRANT SETTING
PLAN VIEW

CITY OF CLEARWATER ENGINEERING DEPARTMENT		TYPICAL FIRE HYDRANT SETTING PLAN VIEW	INDEX NO. 402	PAGE NO. 3 OF 4
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		

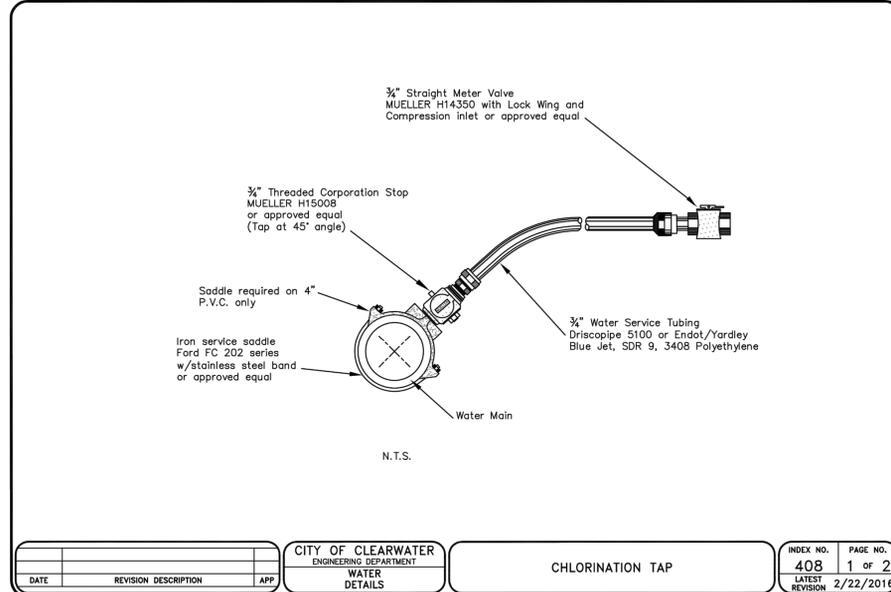


ONLY APPROVED
Kennedy Guardian No. K-81D
Mueller Super Centurion No. 25
American Darling B-84-B
AVK-Nostalgic 2780

NOTES:
1. Steamer connection to face street
2. All fire hydrants to have 5 1/4" valve seat.
3. Fire hydrants shall be placed at street corners or in the R.O.W. adjacent to side lot lines whenever possible.
4. See Index 402, Sheet 1 of 4 for valve box settings.
5. See Index 402, Sheet 3 of 4 for typical connections & fittings.
6. Hydrant runouts shall be made of ductile iron pipe.
7. On hydrant runouts greater than 10 feet from the main, install mechanical joint valve at the main and at the hydrant.
8. See Index 407, Sheet 1 of 1 for jack & bore details.

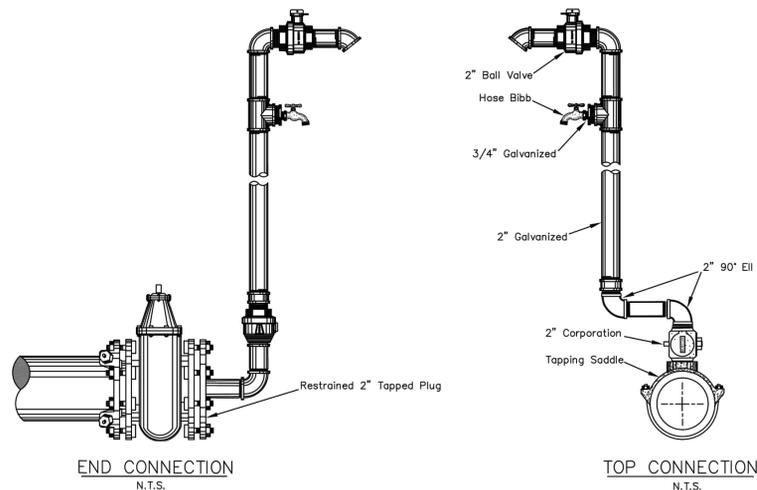
TYPICAL FIRE HYDRANT SETTING
SECTION VIEW

CITY OF CLEARWATER ENGINEERING DEPARTMENT		TYPICAL FIRE HYDRANT SETTING SECTION VIEW	INDEX NO. 402	PAGE NO. 4 OF 4
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		



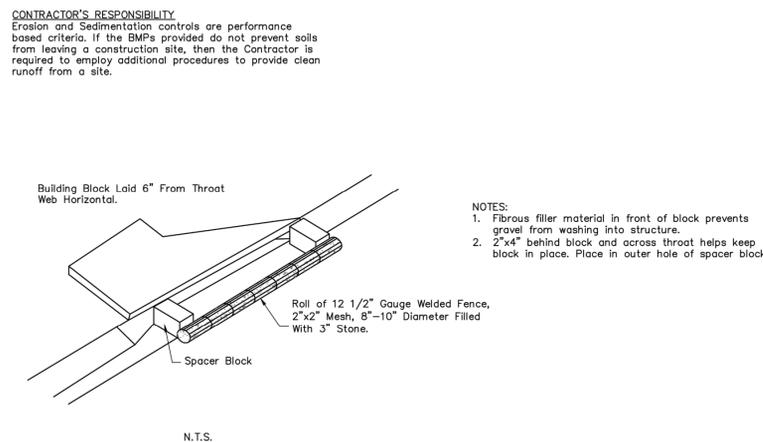
CHLORINATION TAP

CITY OF CLEARWATER ENGINEERING DEPARTMENT		CHLORINATION TAP	INDEX NO. 408	PAGE NO. 1 OF 2
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		



TEMPORARY BLOWOFF
AND SAMPLE TAP

CITY OF CLEARWATER ENGINEERING DEPARTMENT		TEMPORARY BLOWOFF AND SAMPLE TAP	INDEX NO. 408	PAGE NO. 2 OF 2
WATER DETAILS			LATEST REVISION	2/22/2016
DATE	REVISION DESCRIPTION	APP		



NOTES:
1. Fibrous filler material in front of block prevents gravel from washing into structure.
2. 2"x4\"/>

TEMPORARY SEDIMENT TRAP
AT CURB INLET

CITY OF CLEARWATER ENGINEERING DEPARTMENT		TEMPORARY SEDIMENT TRAP AT CURB INLET	INDEX NO. 604	PAGE NO. 1 OF 1
EROSION AND SILTATION CONTROL POLICY			LATEST REVISION	2/22/2016
DATE	CONTRACTOR NOTE ADDED	S.R.		

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LAKEVIEW ROAD
UTILITY RELOCATION PINELLAS COUNTY JPA
DETAILS (2)

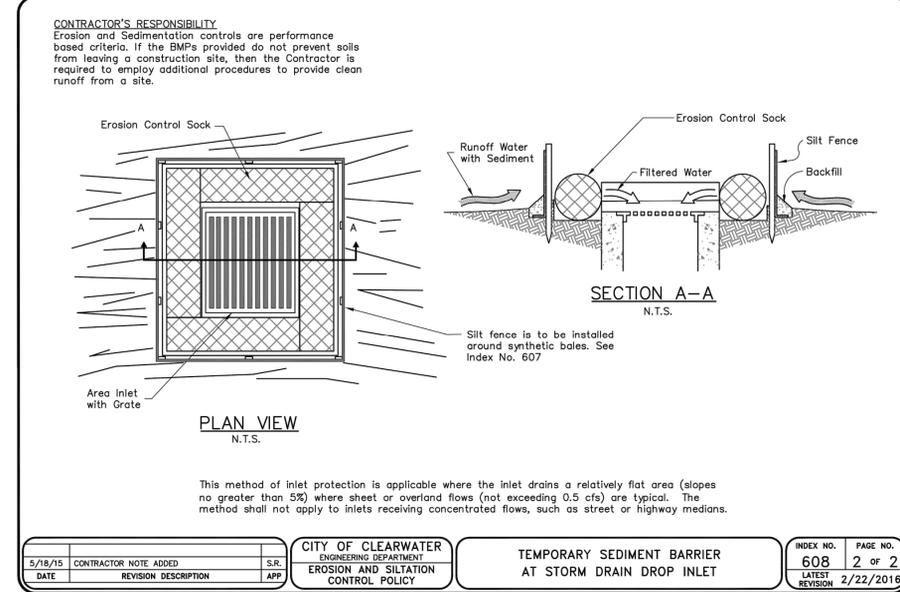
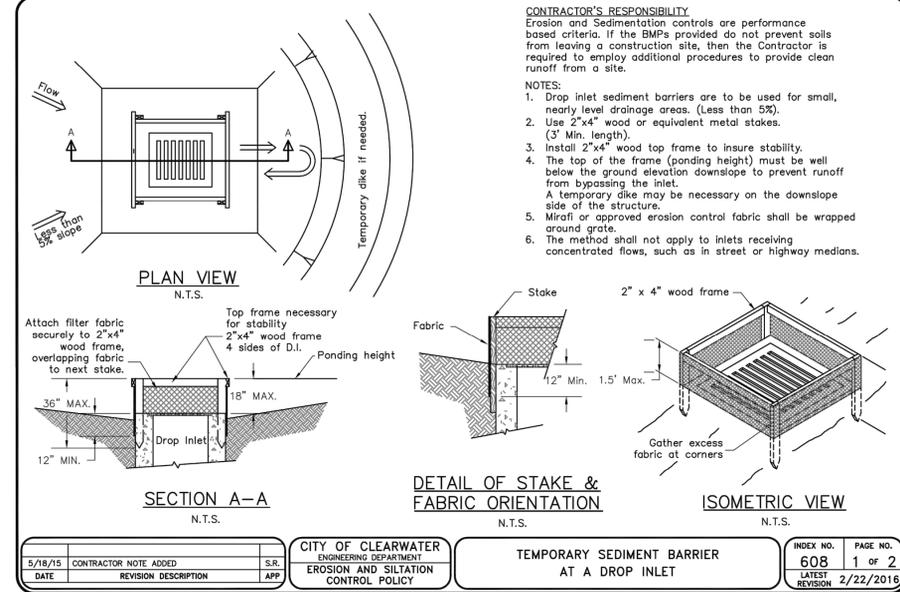
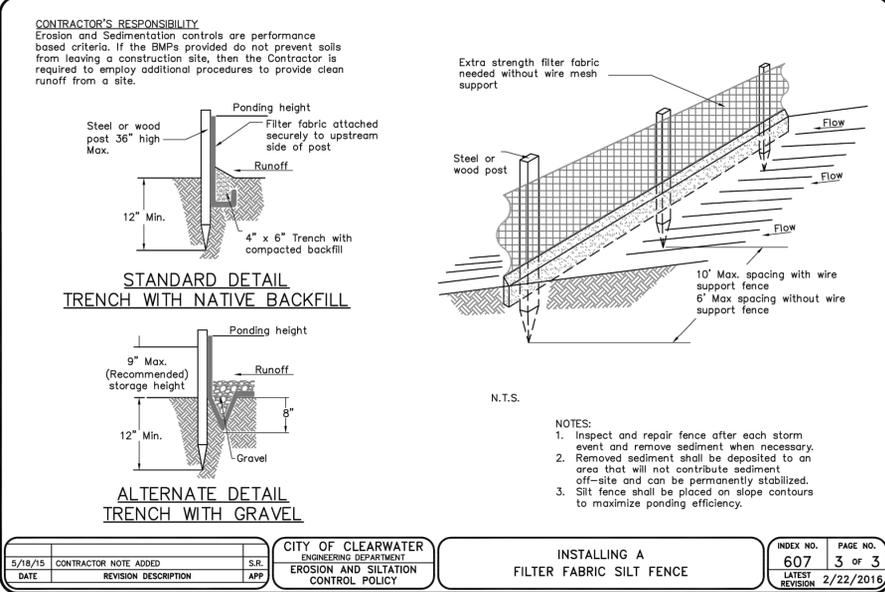
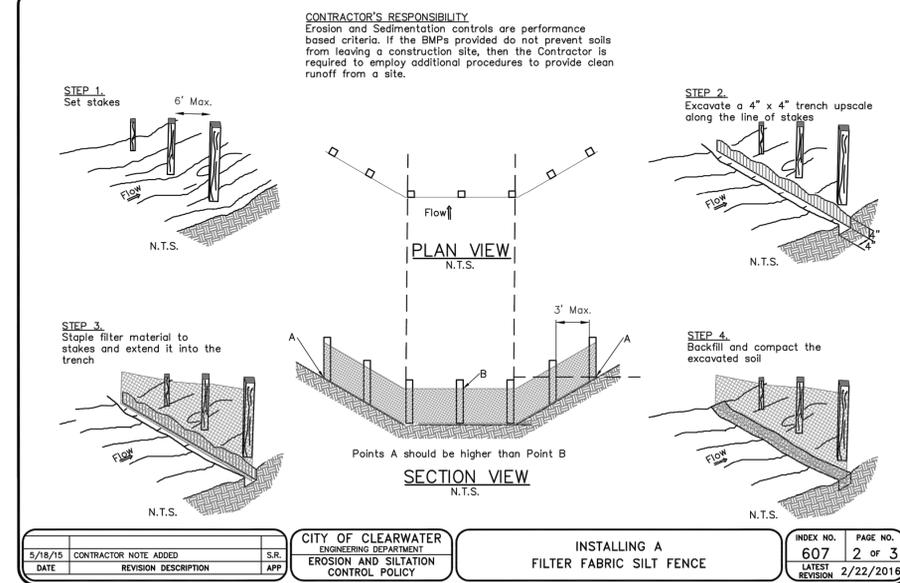
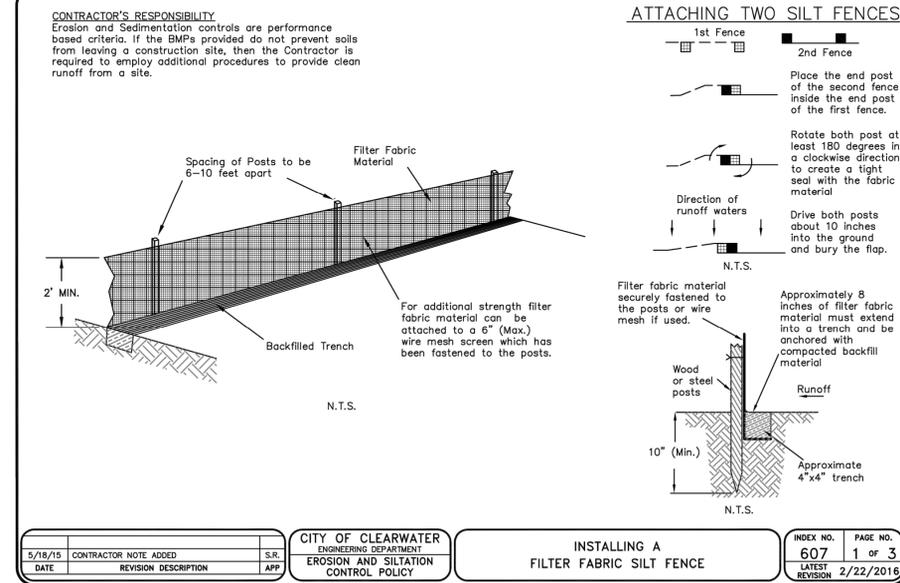
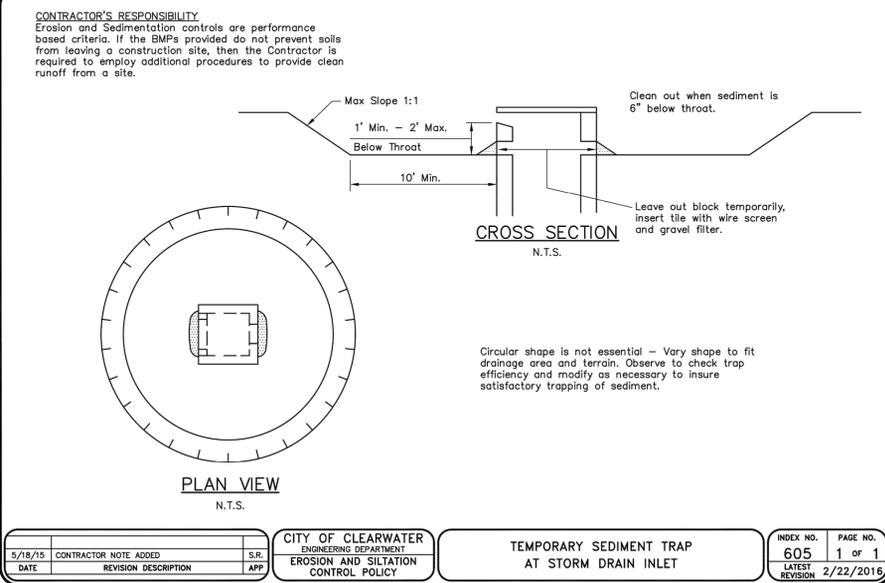
DWG NAME: 10 DETAILS.DWG	FIELD BOOK: N/A	SURVEYED BY: CITY OF CLW	SCALE: VERT. SEE ABOVE
CONTRACT NO.: 19-0013-UT	DATE DRAWN: 8/1/19	DRAWN BY: J. SCHEUERMAN	HORIZ. SEE ABOVE
JOB NO.: 60599552	DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO.: 12 OF 14

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APPROVED BY:	ENGINEER

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BY	DATE
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LAKEVIEW ROAD
 UTILITY RELOCATION PINELLAS COUNTY JPA
 DETAILS (3)

DWG NAME: 10 DETAILS.DWG	FIELD BOOK: N/A	SURVEYED BY: CITY OF CLW	SCALE: VERT. SEE ABOVE
CONTRACT NO.: 19-0013-UT	DATE DRAWING: 8/1/19	DRAWN BY: J. SCHEUERMAN	HORIZ. SEE ABOVE
JOB NO.: 60599552	DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO.: 13 OF 14
APPROVED BY:			

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SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Stop Bar
- Lane Identification + Direction of Traffic

GENERAL NOTES

- The FLAGGER legend sign may be substituted for the symbol sign.
- When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with Index 700-101.
- If the work space extends across a crosswalk, the crosswalk should be closed using the information in Index 102-660.
- Flaggers shall be located where they can control more than one direction of traffic. Flaggers shall be in sight of each other or in direct communication at all times.
- Maximum spacing between channelizing devices shall be not greater than 20'.
- Temporary signal phasing modifications are to be approved by the District Traffic Operations Engineer prior to the beginning of work.
- For general TCZ requirements and additional information, refer to Index 102-600.
- For unsignalized intersections, use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.

DURATION NOTES

- ROAD WORK AHEAD AND END ROAD WORK sign may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Speed is 45 mph or less.
 - No sight obstructions to vehicles approaching the work area for a distance equal to A plus B.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - Volume and complexity of the roadway has been considered.

Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUCH ON THE PAVEMENT REQUIRING THE CLOSURE OF A PORTION OF ONE OR MORE TRAFFIC LANES IN AN INTERSECTION.

FDOT FY 2019-20 STANDARD PLANS TWO-LANE, TWO-WAY, WORK IN INTERSECTION INDEX 102-604 SHEET 1 of 1

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic

GENERAL NOTES

- Work operations shall be confined to one travel lane, leaving the opposing travel lane open to traffic.
- When vehicles in a parking zone block the line of sight to TCZ signs or when TCZ signs encroach on a normal pedestrian walkway, the signs shall be post mounted and located in accordance with Index 700-101.
- If work area is confined to an outside auxiliary lane, the work area shall be barricaded and the FLAGGER signs replaced by ROAD WORK AHEAD signs. Flaggers are not required.
- Flaggers shall be in sight of each other or in direct communication at all times.
- The FLAGGER legend sign may be substituted for the symbol sign.
- The maximum spacing between devices shall be no greater than 25'.
- For general TCZ requirements and additional information, refer to Index 102-600.
- The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- Use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.

DURATION NOTES

- ROAD WORK AHEAD sign may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Speed is 45 mph or less.
 - No sight obstructions to vehicles approaching the work area for a distance of 600 feet.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - Volume and complexity of the roadway has been considered.

FDOT FY 2019-20 STANDARD PLANS TWO-LANE, TWO-WAY, WORK NEAR INTERSECTION INDEX 102-605 SHEET 1 of 1

SYMBOLS

- Work Area
- Channelizing Device
- Work Zone Sign
- Required Locations For Either Temporary Or Permanent Curb Ramps
- Lane Identification + Direction of Traffic
- Pedestrian Longitudinal Channelizing Device (LCD) with Mounted Work Zone Sign or separate Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Temporary Sidewalk

GENERAL NOTES:

- When encroaching work requires a sidewalk closure for 60 minutes or greater, provide an alternate pedestrian route.
- For spacing of vehicular Channelizing Devices, see applicable vehicular temporary traffic control indexes.
- Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
- For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
- Provide a 5' wide temporary walkway, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary walkways less than 5' in width at intervals not to exceed 200'.
- Provide a cross-slope with a maximum value of 0.02 for all temporary walkways.
- Maintain temporary walkway surfaces and ramps that are stable, firm, slip-resistant, and free of any obstructions or hazards such as holes, debris, mud, construction equipment, and stored material.
- Remove temporary walkways immediately after reopening of the sidewalk, unless otherwise noted in the plans.
- Meet the requirements of Index 522-002 for temporary curb ramps.
- Place pedestrian longitudinal channelizing devices(s) across the full width of the closed sidewalk. For temporary walkways, similar to the Sidewalk Diversion, place LCDs to delineate both sides of the temporary walkway.
- For sidewalk diversions, ensure that there is sufficient R/W for placement of temporary sidewalk and pedestrian longitudinal channelizing devices.

CROSSWALK CLOSURE AND PEDESTRIAN DETOUR

SIDEWALK DETOUR

SIDEWALK DIVERSION

FDOT FY 2019-20 STANDARD PLANS PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS INDEX 102-660 SHEET 1 of 1

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JOB NO.: 60599552	DESIGNED BY: B. HANDJIEV	CHECKED BY: D. WILCOX	SHEET NO.: 15 OF 14
APPROVED BY: _____			