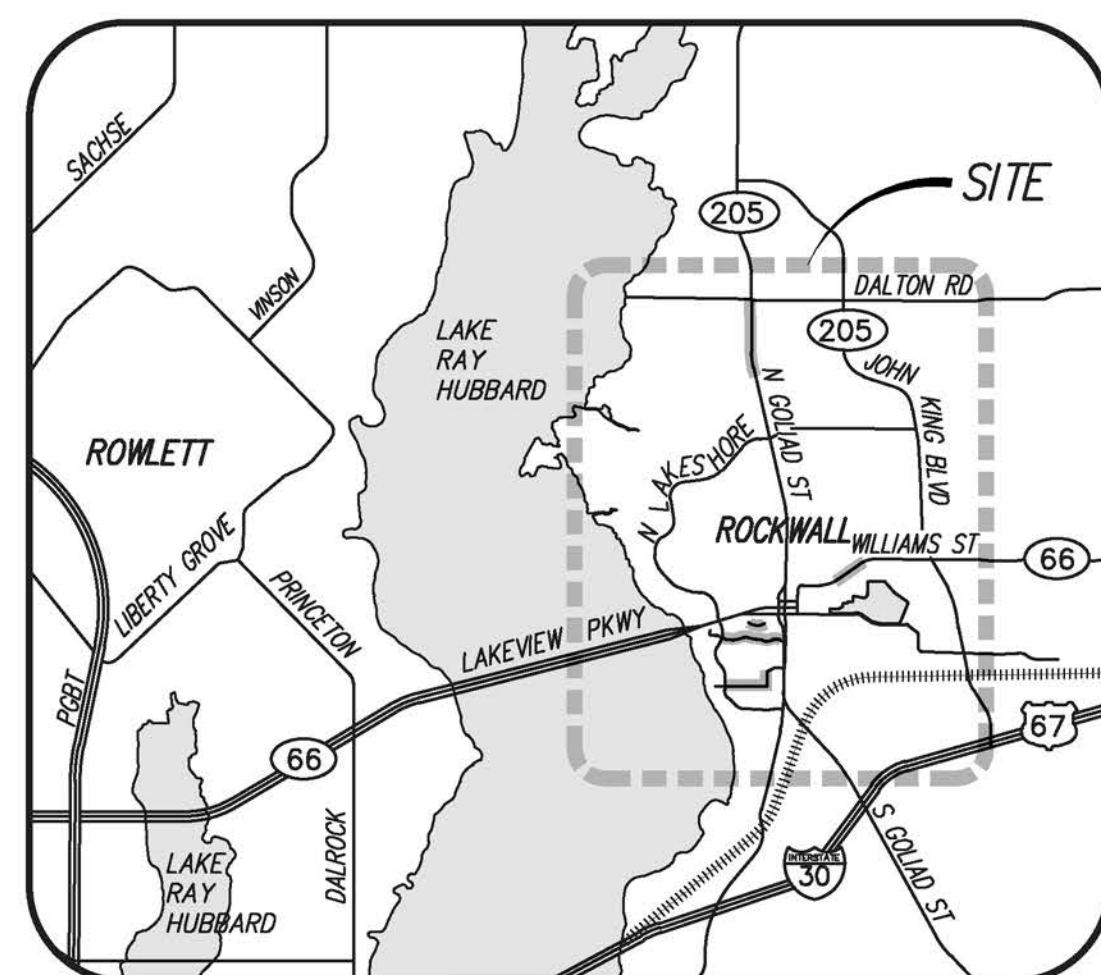




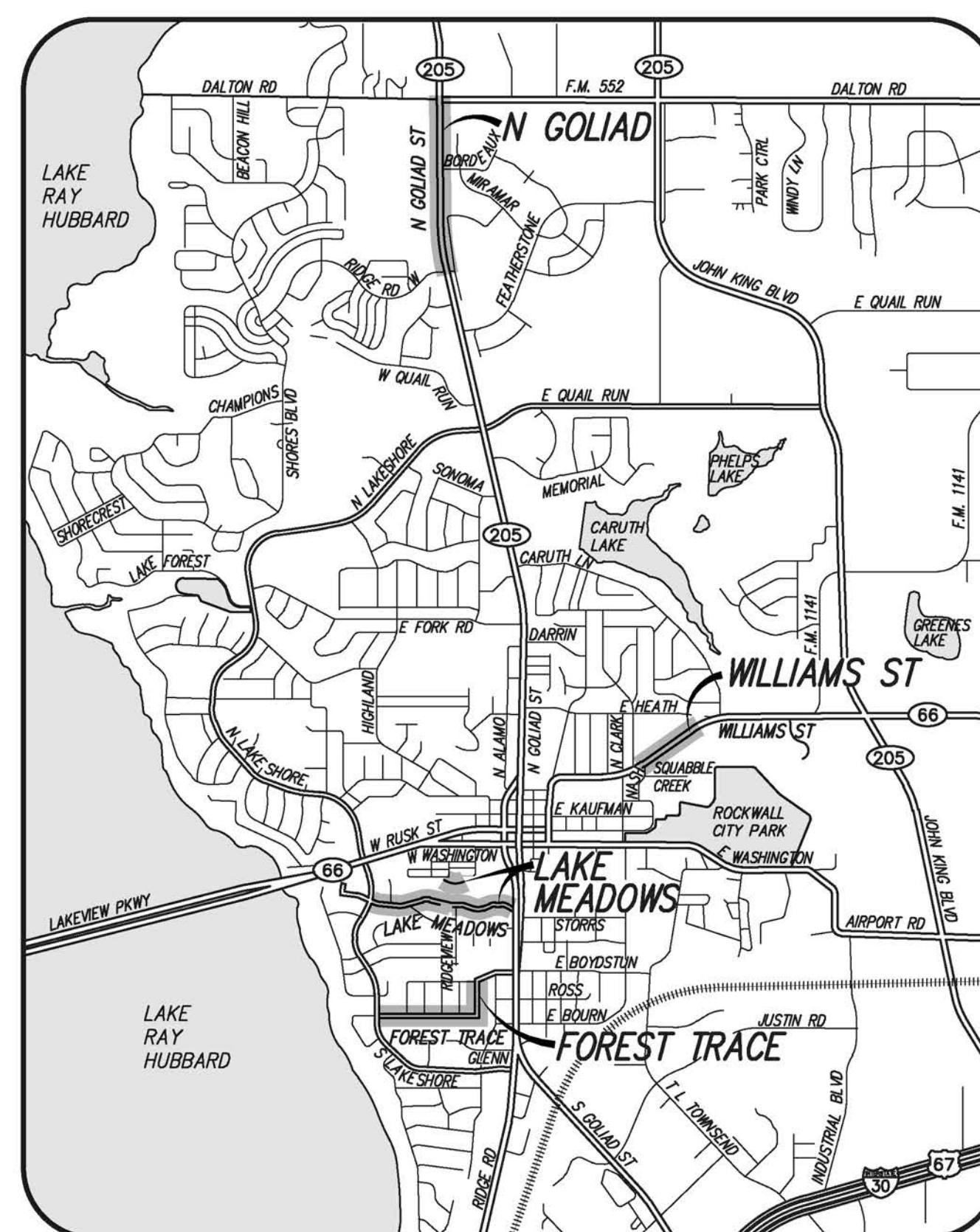
City of Rockwall

Construction Plans For Central Water and Sewer Improvements

Rockwall, Texas



Vicinity Map
n.t.s.



Location Map
n.t.s.

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RECORD DOCUMENTS

THESE PLANS ARE FOR THE OWNER'S USE AS RECORD SET OF THE CONSTRUCTED PROJECT, AND REFLECT REVISIONS AND CONSTRUCTION RELATED CHANGES AS RECORDED BY THE CONTRACTOR. CHANGES MADE FROM THE ORIGINAL CONSTRUCTION DOCUMENTS DO NOT DEPICT ENGINEERING AND ARE NOT THE RESPONSIBILITY OF TEAGUE NALL & PERKINS, INC. OR THE ENGINEER OF RECORD ON THE ORIGINAL DOCUMENTS. ORIGINAL PLANS RELEASED FOR CONSTRUCTION WERE SEALED BY CASEY McBROOM, P.E. NO. 110104 ON 02/12/2014.

October 2013

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE CITY CONSTRUCTION STANDARDS AND GOVERNED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT'S (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 3RD EDITION.
2. IN CASE OF CONFLICT OR CONTRADICTIONS BETWEEN THE CITY CONSTRUCTION STANDARDS AND THE NCTCOG SPECIFICATIONS, THE FOLLOWING HIERARCHY SHALL PRESIDE: CITY CONSTRUCTION STANDARD DETAILS, CITY STANDARD GENERAL NOTES, NCTCOG SPECIFICATIONS.
3. TEXAS DEPARTMENT OF TRANSPORTATION APPROVAL MUST BE OBTAINED PRIOR TO ANY CONSTRUCTION IN STATE HIGHWAY RIGHT-OF-WAY AND A TXDOT UTILITY PERMIT SHALL BE OBTAINED BY CONTRACTOR.
4. A RIGHT-OF-WAY PERMIT (ISSUED BY THE CITY PUBLIC WORKS DEPARTMENT) IS REQUIRED PRIOR TO ANY CONSTRUCTION IN CITY ROW AND EASEMENTS.
5. THE LOCATION OF UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES.
6. UNDERGROUND FACILITY OWNER TELEPHONE NO. CONTACT

- CITY OF ROCKWALL-WATER/WASTEWATER
CITY OF ROCKWALL-CITY ENGINEER/PUBLIC WORKS DIRECTOR
CITY OF ROCKWALL-WATER FIELD SUPERVISOR
CITY OF ROCKWALL-WASTWATER FIELD SUPERVISOR
CHARTER CABLE
VERIZON
ONCOR ELECTRIC
ATMOS GAS
UTILITY LOCATES
NORTH TEXAS MUNICIPAL WATER DISTRICT
- 972-771-7730 (RICK SHERER)
972-771-7746 (TIM TUMULTY)
972-771-7730 (CURTIS MCADEN)
972-771-7730 (STEVE CLAWSON)
www.texas811.org
www.texas811.org
www.texas811.org
www.texas811.org
www.texas811.org
972-442-5405
7. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS, AT HIS OWN COST AND EXPENSE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY AT ONCE OF ANY CONFLICTS IN GRADES AND ALIGNMENT.
8. ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U. S. DEPARTMENT OF LABOR, OSHA, "CONST. SAFETY AND HEALTH REGULATIONS.", VOL. 29, SUBPART P. PG. 128 - 137, AND ANY AMENDMENTS THERETO.
9. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION AS SOON AS POSSIBLE.
10. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, CULVERT PIPES, DRAINAGE DITCHES, IRRIGATION, SODDING OR SEEDING, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS.
11. NO CHANGES IN THE APPROVED CONSTRUCTION PLANS SHALL OCCUR UNLESS APPROVED BY THE CITY ENGINEER. SUBSEQUENTLY, A CHANGE ORDER MUST BE OBTAINED FROM THE DESIGN ENGINEER. THE DIRECTOR OF PUBLIC WORKS SHALL APPROVE ANY DEVIATIONS FROM THE STATE REGULATIONS.
12. ALL TRENCH COMPACTION DENSITY TESTING SHALL BE COORDINATED BY THE CONTRACTOR WITH THE TESTING LAB AND IN ACCORDANCE WITH CITY STANDARDS. THE RESULTS OF THE TRENCH COMPACTION DENSITY TESTS SHALL BE SHOWN ON THE AS-BUILT PROFILE SHEETS AT THE LOCATION OF THE TEST. THE CITY WILL NOT ACCEPT THE INSTALLATION OF THE UTILITY UNTIL THE AS-BUILTS WITH THE TESTING RESULTS HAVE BEEN SUBMITTED TO THE ENGINEER.
13. THE ON-SITE UTILITIES SHALL BE INSTALLED, HAVE PASSED THE REQUIRED TESTS, AND IN SERVICE BEFORE ANY PAVING OPERATIONS MAY BEGIN.
14. ALL FRANCHISE UTILITIES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS BY THE CITY.
15. REMOVAL OF RESIDENTIAL DRIVEWAYS SHALL BE COORDINATED WITH THE PROPERTY OWNER.

16. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND SPRINKLER SYSTEMS. AN IRRIGATOR LICENSED IN THE STATE OF TEXAS SHALL REPAIR ALL DAMAGE CAUSED BY CONSTRUCTION WITHIN 48 HOURS. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
17. CONTRACTOR SHALL GRADE GROUND AND DITCHES DISTURBED BY CONSTRUCTION TO PREVENT PONDING OF STORM WATER RUNOFF. GRADING SHALL BE SUBSIDIARY TO THE APPROPRIATE BID ITEM FOR UNCLASSIFIED STREET AND UNCLASSIFIED CHANNEL EXCAVATION. TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A MINIMUM DEPTH OF 6-INCHES AND DISC HARROWED TO A MINIMUM DEPTH OF 4 INCHES (NO PAY ITEM). CONTRACTOR SHALL REPLACE GRASS AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH SOLID SOD AS PROVIDED IN THE CONSTRUCTION PLANS. SODDED AREAS SHALL BE WATERED AND MAINTAINED FOR A PERIOD OF NO LESS THAN 72 HOURS.
18. CONTRACTOR SHALL REPLACE ANY TREES REMOVED OR DESTROYED THAT ARE NOT SHOWN IN THESE PLANS TO BE REMOVED OR SHALL PAY FAIR MARKET VALUE TO OWNER AS DETERMINED BY THE OWNER.
19. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL NECESSARY TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (PART IV).
20. THE CONTRACTOR SHALL PROVIDE ACCESS AT ALL TIMES DURING EACH PHASE OF CONSTRUCTION TO ALL LOCAL RESIDENTS, BUSINESSES, MAIL SERVICE AND TRASH PICK UP.

WATER NOTES:

1. ALL WATER METERS SHALL BE SIZED AND INSTALLED BY CITY PERSONNEL.
2. FIRE HYDRANTS SHALL BE LOCATED OUTSIDE OF EXISTING OR PROPOSED SIDEWALKS. NO OBSTRUCTIONS SHALL BE WITHIN 3 FEET IN ALL DIRECTIONS AROUND A FIRE HYDRANT.
3. ALL PVC PIPE WATER LINES SHALL CONFORM TO AWWA STANDARD C-900 WITH A DR RATIO OF 14. CLASS 120, BLUE IN COLOR, WITH NSF SEAL, PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS.
4. WATER MAINS SHALL HAVE A MINIMUM OF 48" COVER TO TOP OF PIPE.
5. SERVICE LINE SADDLES FOR PVC PIPE SHALL BE DOUBLE STRAP BRONZE/BRASS AND CORP STOP AND ANGLE STOP (CURB STOP), SHALL BE COMPRESSION-TYPE WITH STAINLESS STEEL TUBE LINERS.
6. ALL WATER LINES SHALL BE ENCASED IN SAND IN ACCORDANCE WITH STANDARD CONSTRUCTION DETAILS. BACKFILL SHALL BE NATIVE MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY.

7. SERVICE LOCATION TO BE SAW-CUT ON CURB WITH ONE "I" SAW-MARK 2" HIGH PAINTED BLUE. WATER SERVICES SHALL BE LOCATED WITHIN 2 FEET OF THE PROPERTY LINE.
8. ALL SERVICES TO METER SHALL BE MIN. 1" SDR-9 CLASS 200 POLYETHYLENE CTS OUTSIDE DIAMETER UNLESS OTHERWISE NOTED.
9. ALL FITTINGS SHALL BE MADE FROM DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS AND HAVE A PRESSURE RATING OF 250 PSI. MEGA-LUG RESTRAINING GLANDS MADE IN THE USA SHALL ALSO BE USED ON ALL FITTINGS. DOMESTIC ONLY - NO FOREIGN MANUFACTURED ALLOWED.
10. ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED WITH AN 8 MIL MINIMUM THICKNESS POLYETHYLENE MATERIAL PER AWWA STANDARD C-150.
11. ALL WATER MAINS SHALL HAVE CONCRETE THRUST BLOCKING AT ALL TEES, BENDS, PLUGS, AND HYDRANTS PER CITY DETAILS.
12. CURB STOPS SHALL BE TESTED FOR LEAKAGE AND FULL FLOW WHEN SYSTEM IS PRESSURE TESTED.
13. ALL FIRE HYDRANT ASSEMBLIES SHALL BE EQUIPPED WITH A 6" GATE VALVE AND BOX. ALL VALVES AND FIRE HYDRANTS ARE TO BE PER CITY SPECIFICATIONS. ONLY MUELLER AND AMERICAN FLOW CONTROL HYDRANTS ARE ACCEPTED.
14. ANY WATER VALVES LOCATED WITHIN PAVEMENT AREAS SHALL BE ADJUSTED TO FINAL GRADE BY THE PAVING CONTRACTOR.
15. ALL RISERS OVER WATER VALVES SHALL BE 6" PVC WATER LINE PIPE WITH A BASS & HAYES CAST IRON ASSEMBLY ON TOP (DALLAS SHORTY STACK).
16. ALL TRENCHES OF WATER MAINS SHALL BE INSTALLED WITH A BLUE METALLIC TAPE LOCATED TWO FEET BELOW THE TOP OF TRENCH.
17. ALL TESTING SHALL BE PERFORMED WITH A REPRESENTATIVE FROM THE CITY PRESENT.
18. ALL TRENCHES SHALL BE COMPACTION TESTED AT THE RATE OF ONE TEST PER 150 L.F. OF TRENCH PER LIFT. LIFTS SHALL BE NO GREATER THAN 12" LOOSE. TESTS SHALL BE STAGGERED SO THAT TESTS OF ADJACENT LIFTS ARE NOT DIRECTLY OVER THE PREVIOUS LIFT. THE TESTING LAB SHALL PROVIDE THE LOCATION OF ALL RESULTS ON A PLAN AND PROFILE SHEET PRIOR TO TRENCH ACCEPTANCE. THE PAVING CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE CITY HAS APPROVED ALL TRENCH WORK.
19. PROPOSED WATER LINES SHALL BE AWWA C-900 PVC, CLASS 200 UNLESS OTHERWISE SHOWN ON WATER, SANITARY SEWER OR STORM SEWER PROFILES. PROPOSED WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 4 FEET, UNLESS NOTED OTHERWISE ON THE PLANS. PROPOSED WATER LINE EMBEDMENT SHALL BE NCTCOG CLASS "B-3" AS AMENDED BY THE CITY'S PUBLIC WORKS STANDARDS OF DESIGN AND CONSTRUCTION MANUAL.
20. CONTRACTOR SHALL COORDINATE THE SHUTTING DOWN OF THE EXISTING WATER LINES WITH THE CITY. THE CITY SHALL OPERATE ALL WATER VALVES.
21. ALL FIRE HYDRANTS AND VALVES REMOVED AND SALVAGED SHALL BE RETURNED TO THE OWNER OR TO A LOCATION ACCEPTABLE TO THE OWNER.
22. BLUE EMS PADS SHALL BE INSTALLED AT EVERY CHANGE IN DIRECTION, VALVE AND SERVICE ON THE PROPOSED WATER LINE.
23. CONTRACTOR TO INSTALL NEW METER BOXES AND ALL FITTINGS EXCEPT THE METERS PER EACH SERVICE COMPLETE INCLUDING CONNECTION TO THE MAIN LINE.
24. EXISTING METER AND METER BOXES NOT SPECIFYING CALLED TO BE RELOCATED SHALL BE ADJUSTED TO MATCH PROPOSED GRADES (NO PAY ITEM).

PAVING NOTES:

1. ALL PROPOSED HMAC STREET PAVEMENT SHALL CONSIST OF 4 INCHES OF TYPE B (BASE) WITH 2 INCHES OF TYPE D (SURFACE), OR 1-1/2 INCHES OF TYPE D (SURFACE) FOR OVERLAYS, IN ACCORDANCE WITH NCTCOG ITEMS 5.7 AND 2.4.13.
2. STREET, ALLEY, AND DRIVEWAY CONCRETE PAVEMENT SHALL MEET THE REQUIREMENTS OF NCTCOG ITEM 7.4.5 WITH THE FOLLOWING REQUIREMENTS:
- | | |
|---|------------|
| MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS | 3,600-PSI |
| MINIMUM CEMENT PER CUBIC YARD (MACHINE) | 6.0 SACKS |
| MINIMUM CEMENT PER CUBIC YARD (HAND POURED) | 6.5 SACKS |
| MINIMUM W/C RATIO | 6.0 |
| MAXIMUM SLUMP SLIP FORM | 3.0 INCHES |
| MAXIMUM SLUMP POURED BY HAND | 4.0 INCHES |
3. ALL PROPOSED CONCRETE STREET REINFORCEMENT SHALL BE #3 BARS ON 18-INCH CENTERS EACH WAY.
4. CONCRETE FOR ALL CURB AND GUTTERS, VALLEY GUTTERS, AND DRIVEWAYS SHALL BE IN CONFORMANCE WITH NCTCOG ITEM 7.4.5, CLASS 'C' CONCRETE (3600 P.S.I. THE CONTRACTOR SHALL UTILIZE ONE CONCRETE MIX DESIGN THROUGHOUT THE PROJECT. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR REVIEW.
5. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM 615, 616 AND 617.
6. ALL AREAS OUTSIDE PAVEMENT DISTURBED BY CONSTRUCTION ACTIVITIES SHALL HAVE GRASS ESTABLISHED IMMEDIATELY. GRASS SHALL MEET THE REQUIREMENTS OF ITEM 3.8, 3.9, 3.10, AND 3.11 OF NCTCOG. PAYMENT SHALL BE MADE UNDER THE APPROPRIATE BID SCHEDULE ITEM, AREAS DISTURBED OUTSIDE THE R.O.W. OR LIMITS OF CONSTRUCTION SHALL HAVE GRASS ESTABLISHED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
7. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL EXISTING CONCRETE AND HMAC PAVEMENT AS REQUIRED FOR CONSTRUCTION OF THE PROJECT. ALL COSTS SHALL BE INCLUDED IN THE APPROPRIATE ITEMS IN THE BID SCHEDULE.
8. ALL CONNECTIONS OF PROPOSED CONCRETE PAVEMENT TO EXISTING CONCRETE PAVEMENT SHALL INCLUDE A LONGITUDINAL BUTT JOINT AS THE LOAD TRANSFER DEVICE-SEE DETAIL THIS SET OF PLANS. CONCRETE SAW CUTS FOR ALL DRIVEWAYS AND SIDEWALKS SHALL BE SUBSIDIARY TO THE APPROPRIATE BID ITEM FOR DRIVEWAY AND SIDEWALK REPLACEMENT.
9. ALL PROPOSED GRAVEL PAVEMENT SHALL CONSIST OF 6 INCHES OF NCTCOG ITEM 2.1.3 GRAVEL AND SHALL BE IN ACCORDANCE WITH NCTCOG ITEM 4.4. FINISHED GRADE UNDER GRAVEL PAVEMENT AREAS SHALL BE COMPACTED TO 95% STANDARD PROCTOR BY USE OF MECHANICAL OR HAND TAMPING DEVICES.
10. THERE SHALL BE NO SEPARATE PAYMENT FOR SUBGRADE PREPARATION UNDER DRIVEWAY AREAS AND ALL COST SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF THE BID SCHEDULE.
11. ALL PAVEMENTS TO BE REMOVED AND REPLACED SHALL BE SAW CUT ALONG NEAT LINES AS SHOWN IN THE PLANS. PROPOSED CONCRETE PAVEMENT SHALL BE CONSTRUCTED WITH LONGITUDINAL CONSTRUCTION JOINTS AT ALL CONNECTIONS TO EXISTING CONCRETE PAVEMENT.

SANITARY SEWER NOTES:

1. SANITARY SEWER LINES SHALL BE SDR 35 PVC PIPE AND SHALL HAVE A MINIMUM COVER OF THREE FEET, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS. FOR DEPTHS OF TEN FEET OR GREATER, THE SANITARY SEWER LINE SHALL BE SDR 26. ONE JOINT OF 150-PSI PRESSURE RATED PIPE SHALL BE INSTALLED UNDER ALL PROPOSED WATER PIPE CROSSINGS.
2. THE CONTRACTOR SHALL ENSURE THAT TCEQ MINIMUM SEPARATION REQUIREMENTS BETWEEN WATER LINES AND SANITARY SEWER LINES ARE MET.
3. PIPE SHALL BE BEDDED PER CITY STANDARDS AND PLACED AS DIRECTED THEREIN. BACKFILL SHALL BE NATIVE MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY.
4. ALL TRENCHES OF SANITARY SEWER MAINS SHALL BE INSTALLED WITH A GREEN METALLIC TAPE LOCATED TWO FEET BELOW THE TOP OF TRENCH.
5. AFTER COMPLETION OF ALL TESTING (I.E. MANDREL & AIR) CONTRACTOR SHALL PERFORM A TELEVISION CAMERA INSPECTION AND PROVIDE VIDEOTAPE OR DVD TO THE PUBLIC WORKS DEPARTMENT. DEFLECTION AND A LOW-PRESSURE AIR TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY STANDARDS.
6. THE LOW PRESSURE AIR TEST SHALL TAKE PLACE AFTER THE FRANCHISE UTILITIES HAVE BEEN INSTALLED TO ENSURE NO DAMAGE WAS DONE TO THE SANITARY SEWER LINE AND SERVICES DURING THE INSTALLATION OF THE FRANCHISE UTILITIES.
7. A 2" HIGH "II" SAW-MARK SHALL BE SAWED ON THE CURB AND PAINTED GREEN TO MARK THE LOCATION OF THE SEWER SERVICES.
8. ALL SANITARY SEWER MANHOLES SHALL BE A MINIMUM OF 4-FT. DIAMETER IN ACCORDANCE WITH STANDARD CITY DETAILS UNLESS OTHERWISE SHOWN IN THE CONSTRUCTION PLANS.
9. CONTRACTOR SHALL PLACE A 3/4" PLYWOOD FALSE BOTTOM IN ALL SANITARY SEWER MANHOLES BEFORE PAVING CONTRACTOR COMMENCES WORK.
10. RIM ELEVATIONS OF THE PROPOSED SANITARY SEWER MANHOLES IN STREETS SHALL BE CONSTRUCTED 12" BELOW FINAL FINISHED GRADES BY UTILITY CONTRACTOR AND ADJUSTED BY CONTRACTOR TO FINISHED GRADE AT TIME OF PAVING.
11. ALL TRENCHES SHALL BE COMPACTION TESTED AT THE RATE OF ONE TEST PER 150 L.F. OF TRENCH PER LIFT. LIFTS SHALL BE NO GREATER THAN 12" LOOSE. TESTS SHALL BE STAGGERED SO THAT TESTS OF ADJACENT LIFTS ARE NOT DIRECTLY OVER THE PREVIOUS LIFT. IF THE DISTANCE BETWEEN MANHOLES EXCEEDS 300 L.F., A MINIMUM OF 2 TESTS PER LIFT SHALL BE TAKEN. THE TESTING LAB SHALL PROVIDE THE LOCATION OF ALL RESULTS ON A PLAN AND PROFILE SHEET PRIOR TO TRENCH ACCEPTANCE. THE PAVING CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE CITY HAS APPROVED ALL TRENCH WORK.
12. THE INTERIOR OF ALL MANHOLES SHALL BE LINED WITH AN EPOXY COATING AND SHALL BE RAVEN LINING 405 OR APPROVED EQUAL, AT A MINIMUM THICKNESS OF 200 MILS APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
13. ALL MANHOLES SHALL BE VACUUM TESTED TO ENSURE THE MANHOLE IS WATER TIGHT.
14. ALL TRENCH COMPACTION DENSITY TESTING SHALL BE COORDINATED BY THE CONTRACTOR WITH THE TESTING LAB AND IN ACCORDANCE WITH CITY STANDARDS. THE RESULTS OF THE TRENCH COMPACTION DENSITY TESTS SHALL BE SHOWN ON THE AS-BUILT PROFILE SHEETS AT THE LOCATION OF THE TEST. THE CITY WILL NOT ACCEPT THE INSTALLATION OF THE UTILITY UNTIL THE AS-BUILTS WITH THE TESTING RESULTS HAVE BEEN SUBMITTED TO THE ENGINEER.
15. ALL PRECAST MANHOLES SHALL HAVE SECTIONS WITH A SINGLE OFFSET JOINT WITH PROFILE RUBBER GASKETS AND SHALL CONFORM TO ASTM C478 AND C443.
16. PROPOSED SANITARY SEWER EMBEDMENT SHALL BE NCTCOG CLASS "B-2" AS AMENDED BY THE CITY'S PUBLIC WORKS STANDARDS OF DESIGN AND CONSTRUCTION MANUAL.
17. GREEN EMS PADS SHALL BE INSTALLED AT EVERY MANHOLE, CLEAN OUT AND SERVICE ON THE PROPOSED SANITARY SEWER.

GABION NOTES:

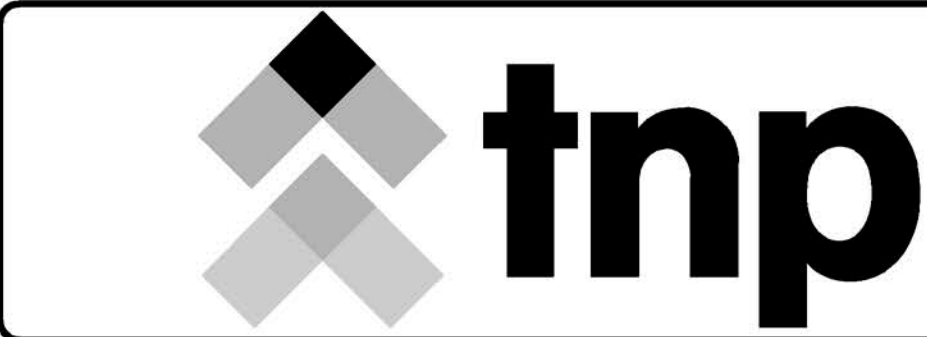
1. THE BASE OF THE GABION WALL SHALL BE LOCATED AS SHOWN IN THE PLANS ON A FIRM AND STABLE BASE. IF ANY AREAS ARE DISCOVERED WHICH DO NOT PROVIDE A FIRM STABLE BASE, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF THAT FINDING. INSTALLATION OF THE WALL IN ANY AREA WHERE THE FOUNDATION IS FOUND TO BE OTHER THAN AS INDICATED ON THE DRAWINGS SHALL CEASE UNTIL A SUITABLE REMEDIAL ACTION IS AGREED UPON BY THE CONTRACTOR AND THE OWNER.
2. SOME MINOR SLOUGHING OR SKIN SLIDING MAY OCCUR DURING CONSTRUCTION WHEN THE SIDE WALLS OF THE CLAY SOILS ARE EXPOSED. THE CONTRACTOR SHALL EXAMINE SLOPES ON A DAILY BASIS TO OBSERVE ANY EVIDENCE OF POTENTIAL SLOUGH, SLIDES, OR SLOPE DISTRESS. GABION BANK STABILIZATION CONSTRUCTION SHALL BEGIN WITHIN TWO (2) WEEKS ON ANY EXCAVATED SURFACE FOR EXCAVATED FACES GREATER THAN 8' HIGH. SHOULD TENSION CRACKS BE OBSERVED ON THE TOP OF THE SLOPE, THE CONTRACTOR SHOULD ALERT HIS CONSTRUCTION CREW TO THE POTENTIAL FOR SLIDING DUE TO THESE CRACKS. IN ADDITION, ANY SAID CRACKS/MOVEMENTS SHOULD BE MONITORED BY THE CONTRACTOR ON A DAILY BASIS TO PREVENT THE POSSIBILITY OF NEGATIVE INFRINGEMENT INTO THE CHANNEL. SHOULD ANY UNUSUAL CONDITIONS BE ENCOUNTERED CAUSING SLIDING/ SLOUGHING/ UNUSUAL MOVEMENTS OF THE SOILS, THE CONTRACTOR SHALL CEASE CONSTRUCTION AND CONTACT THE OWNER OR ENGINEER IMMEDIATELY.
3. GEOTEXTILE FABRIC TO BE USED DURING CONSTRUCTION SHALL BE NON-WOVEN POLYPROPYLENE NEEDLE PUNCHED GEOTEXTILE SUCH AS SHOWN ON THE TYPICAL SECTION.
4. THE GEOGRID BACKFILL REINFORCEMENT SHALL BE FABRICATED FROM NON-CORROSIVE MATERIAL AND HAVE DESIGN PROPERTIES EQUAL TO OR GREATER THAN THE GEOGRID SHOWN ON THE TYPICAL SECTION.
5. SELECT GRANULAR FILL BEHIND GABION WALLS, TO THE LIMITS SHOWN ON THE CONSTRUCTION PLANS AND DETAILS, SHALL BE GRANULAR FILTER MEDIA CONSISTING OF 1-1/2" CRUSHED STONE IN ACCORDANCE WITH ASTM33, SIZE 467. BACKFILL SHALL BE PLACED FOR EACH TIER PRIOR TO PLACING SUCCESSIVE TIERS.
6. THE GABION WALL SYSTEM SHALL BE INSTALLED BY A CONTRACTOR WHO HAS DEMONSTRATED A MINIMUM OF THREE (3) YEARS EXPERIENCE IN THE CONSTRUCTION OF SIMILAR WALL SYSTEMS.
7. THE GABION BASKETS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. GABION BASKETS SHALL BE GALVANIZED WIRE WITH PVC COATING PER GABION TECHNICAL SPECIFICATIONS. THE ROCK FILL SHALL BE CAREFULLY PLACED INTO THE BASKETS IN A MANNER TO MINIMIZE VOID SPACES AND TO RESULT IN A SOUND UNIFORM WALL.
8. THE LIMITS OF THE GABION WALL MAY BE ADJUSTED SUBJECT TO THE APPROVAL OF THE OWNER TO CONFORM MORE CLOSELY TO THE EXISTING TERRAIN AT THE TIME OF ACTUAL CONSTRUCTION.
9. EXPOSED FACE OF GABIONS SHALL BE PLUMB AND TRUE TO PLAN ALIGNMENT.

NOTE:
THE CITY OF ROCKWALL STANDARD CONSTRUCTION DETAILS AND NCTCOG 3rd EDITION DETAILS WITH CITY REVISIONS ARE APPLICABLE TO THIS PROJECT AND ARE INCORPORATED HEREIN BY REFERENCE ONLY. THESE STANDARD DETAILS CAN BE OBTAINED FROM THE CITY OF ROCKWALL'S ENGINEERING DEPT.

no.	revision	by	date



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horiz
N/A
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N/A
date
JAN 2014



teague nall & perkins

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RECORD DOCUMENTS

THESE PLANS ARE FOR THE OWNER'S USE AS RECORD SET OF THE CONSTRUCTED PROJECT, AND REFLECT REVISIONS AND CONSTRUCTION RELATED CHANGES AS RECORDED BY THE CONTRACTOR. CHANGES MADE FROM THE ORIGINAL CONSTRUCTION DOCUMENTS DO NOT DEPICT ENGINEERING AND ARE NOT THE RESPONSIBILITY OF TEAGUE NALL & PERKINS, INC. OR THE ENGINEER OF RECORD ON THE ORIGINAL DOCUMENTS. ORIGINAL PLANS RELEASED FOR CONSTRUCTION WERE SEALED BY CASEY MCBROOM, P.E. NO. 010104 ON 02/12/2014.

City of Rockwall, Texas

Central Water and Sewer Improvements for

GENERAL NOTES

tnp project
RW13076

sheet

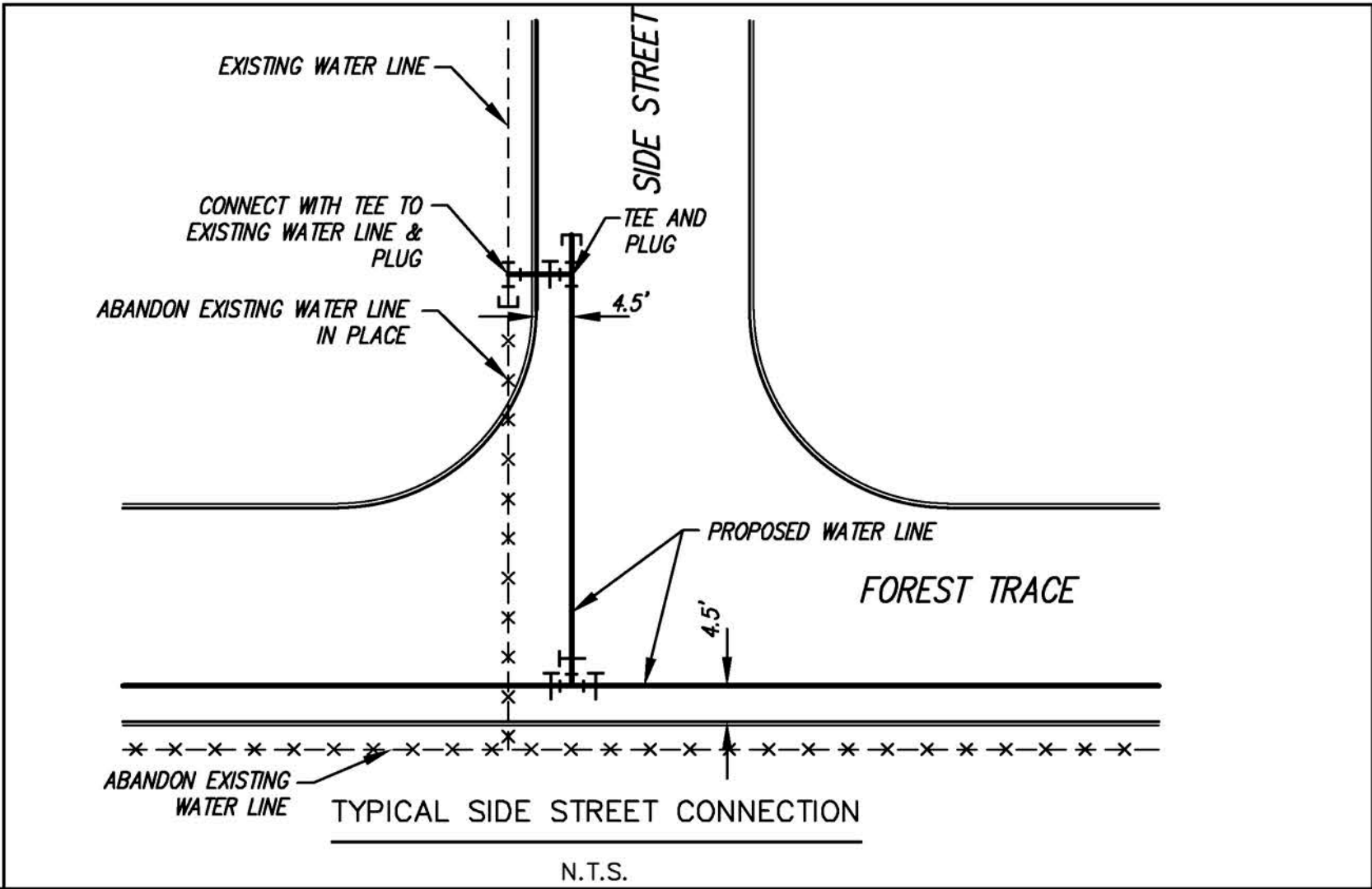
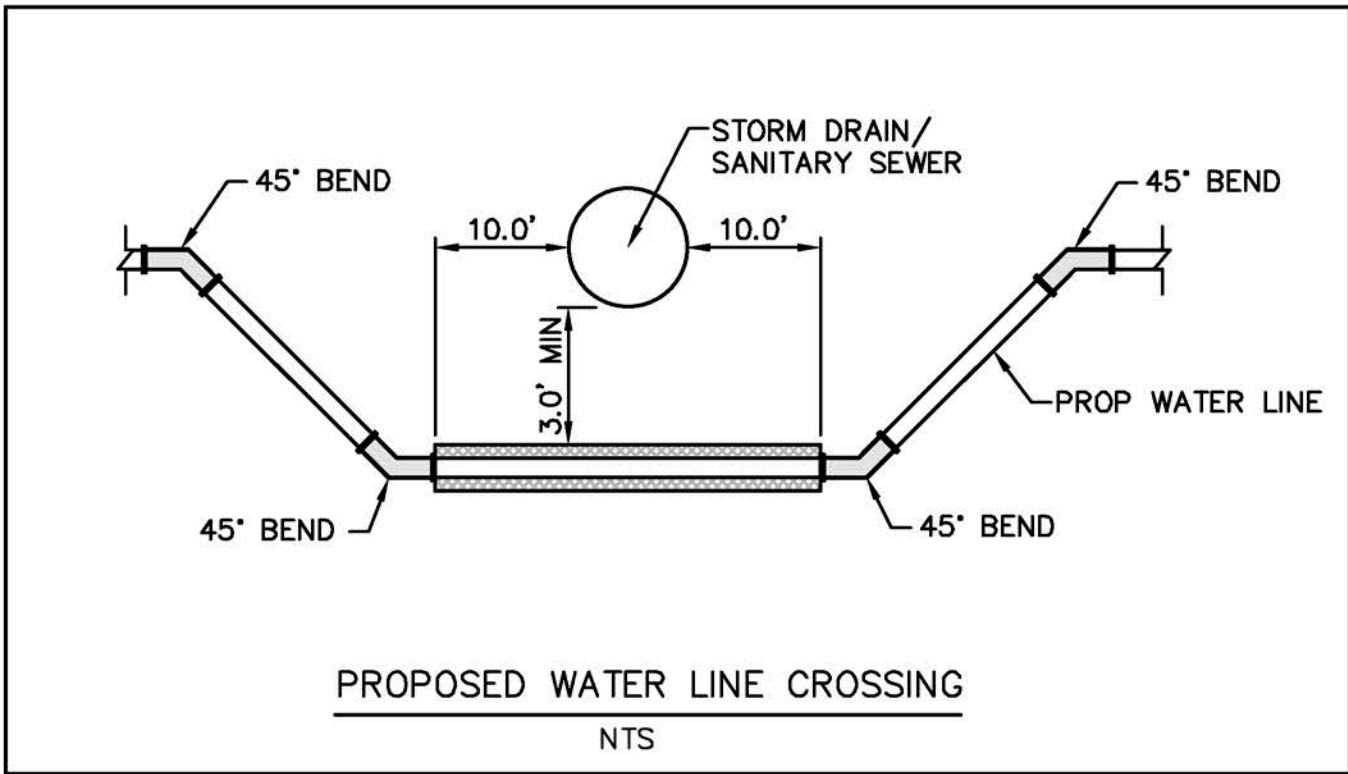
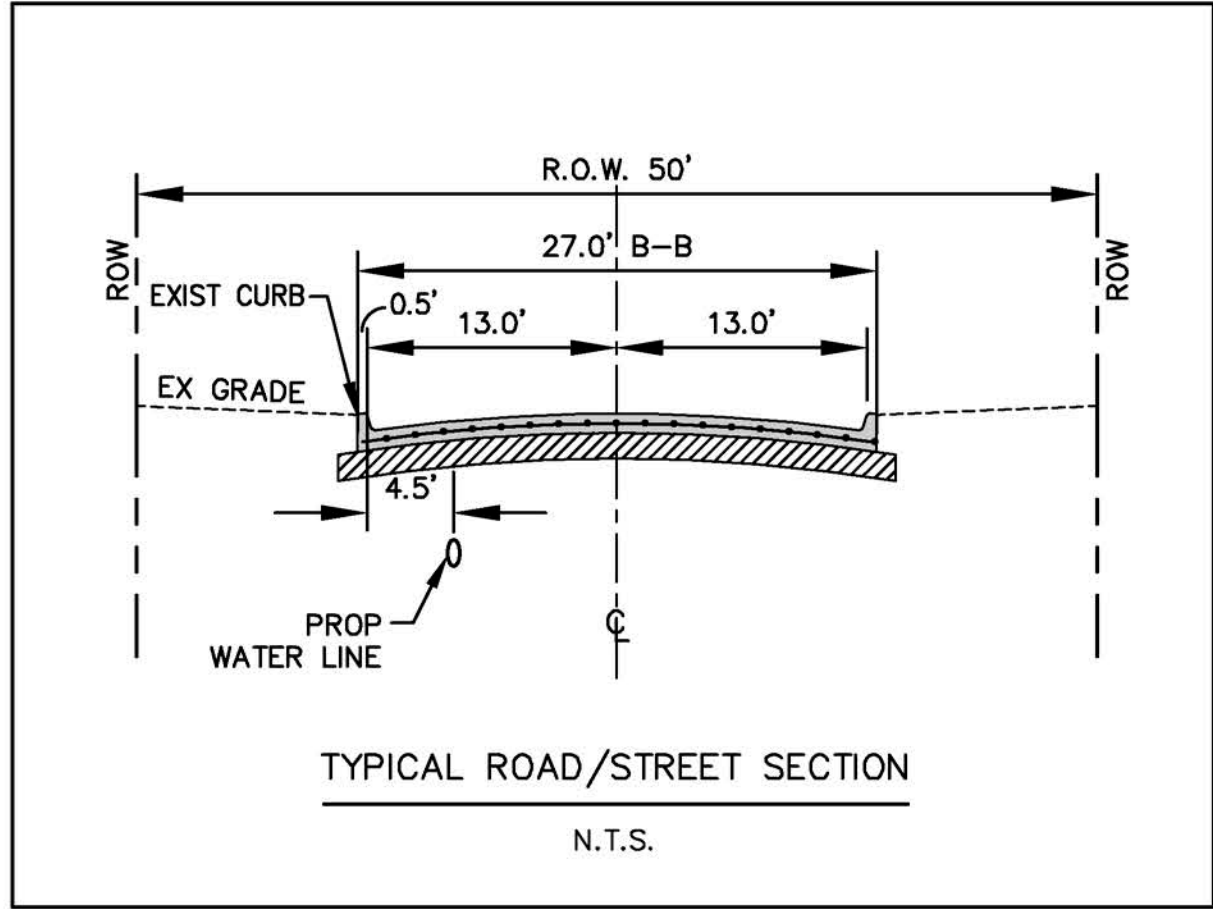
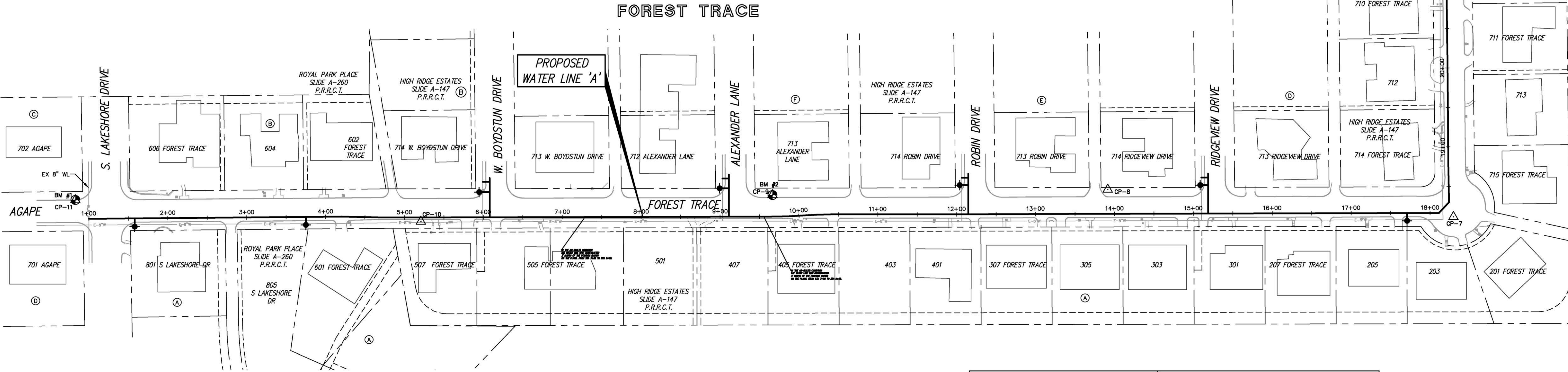
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CONTROL POINTS				
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CP-5 X CUT	N 7026189.5086	E 2593943.9730	561.99	
CP-6 5/8 CIRS	N 7025886.6690	E 2593969.1166	576.89	
CP-7 60D NAIL	N 7025547.6937	E 2593953.7276	549.52	
CP-8 5/8 CIRS	N 7025582.3036	E 2593515.4286	531.51	
CP-9 X CUT	N 7025575.2893	E 2593090.6043	502.47	
CP-10 X CUT	N 7025541.8334	E 2592644.9740	484.60	
CP-11 X CUT	N 7025569.0525	E 2592207.0439	465.06	

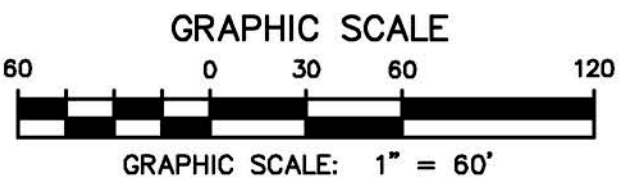
BENCH MARKS	
BM #1: X CUT ON NORTH CURB OF AGAPE ST. 39' WEST CL LAKESHORE DR. IT IS ALSO EAST CURB RETURN OF FIRST DRIVEWAY.	(ELEV=465.06)
BM #2: X CUT IN THE NE CORNER OF AN 11' INLET LOCATED ON THE NORTH SIDE OF FOREST TRACE AND 46' EAST OF ALEXANDER LN.	(ELEV=502.47)
BM #3: X CUT IN NORTH CURB OF BOYDSTUN AVE AT CL INTERSECTION WITH FOREST TRACE. IT IS ALSO 48.5' WEST OF A BRICK MAILBOX AT 202 W. BOYDSTUN AVE.	(ELEV=561.99)

ADDRESS	OWNER
701 AGAPE STREET	LUIZ JANET M
702 AGAPE STREET	TERRY, GREGORY S & KAREN L
801 S. LAKESHORE DRIVE	WILLIAMS, BRUCE & BRIDGET
805 S. LAKESHORE DRIVE	DODSON, GLYNN
601 FOREST TRACE	MAYO, FRANK & MARGARET
602 FOREST TRACE	BRAY, JOSEPH ODEAN & SHARON MARIE
604 FOREST TRACE	LORENZ, JARED M & AMANDA E
606 FOREST TRACE	LAVENDER, KEVIN
507 FOREST TRACE	SHERRIN, RANDALL
505 FOREST TRACE	BAILEY, CHARLOTTE A
501 FOREST TRACE	MOSER DEVELOPMENT CORP
407 FOREST TRACE	MOSER, W JAKE JR
405 FOREST TRACE	MOSER, W JAKE JR
403 FOREST TRACE	MOSER DEVELOPMENT CORP
401 FOREST TRACE	NERREN, SHANNON W
307 FOREST TRACE	YORK, RUDY L
305 FOREST TRACE	BOYD, JERRY & HELEN
303 FOREST TRACE	STAMPER, STEPHEN O
301 FOREST TRACE	ST CLAIR, DOUG & KELLY
207 FOREST TRACE	LEWIS, JUSTIN & ALLISON
205 FOREST TRACE	HAYDICKY, JOSEPH N
203 FOREST TRACE	STOVALL, RAYMOND P
201 FOREST TRACE	HINTON, SANDRA

ADDRESS	OWNER
714 FOREST TRACE	COLLETTI, CYNTHIA DAVISS
712 FOREST TRACE	GRAY, JIM & KATHERINE
710 FOREST TRACE	FERGUSON, DENNIS & KATHY
709 FOREST TRACE	MOSER DEVELOPMENT CORP
708 FOREST TRACE	HATAWAY, CATHI
706 FOREST TRACE	FORD, CLYDE G & VIRGINIA
704 FOREST TRACE	FREED, SARAH
715 FOREST TRACE	DELBOSQUE, ROLOLFO & LORENA P
713 FOREST TRACE	N/A
711 FOREST TRACE	CYPERT, LYNDOL & JERE
707 FOREST TRACE	WRIGHT, MELISSA ANN & DAVID SCOTT, DAVID
705 FOREST TRACE	LARISCY, GEORGE & MARY
703 FOREST TRACE	BONFANTE, VITTORIO & ANGELA
714 RIDGEVIEW DR	SIPLE, MARIAN C
713 RIDGEVIEW DR	COHEN, MARK A
714 ROBIN DR	RAY, SHEM III & ANN MARIE
713 ROBIN DR	LINEHAN, STEPHEN D
712 ALEXANDER LANE	KUHLMAN ARTHUR
713 ALEXANDER LANE	MARTIN, REGIS & KAREN
714 W. BOYDSTUN DRIVE	MOORE, JAMES L ETUX
713 W. BOYDSTUN DRIVE	SWOFFORD, STEPHEN & BRENDA
202 W. BOYDSTUN DRIVE	RUSS, JOHN CHARLES & KATHY LEA
204 W. BOYDSTUN DRIVE	MARKS, RICHARD R & JUNE



NOTE: DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



Drawing: Q:\Projects\RW13076\CA0\Sheets\Forest Trace Overall Property.dwg at Nov 19, 2019-4:43pm by krios
Layout: FT-OVERALL Xrefs: X-BORDER.dwg - X-BASE-Forest Trace.dwg

no.	revision	by	date



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1" = 60'
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date
JAN 2014

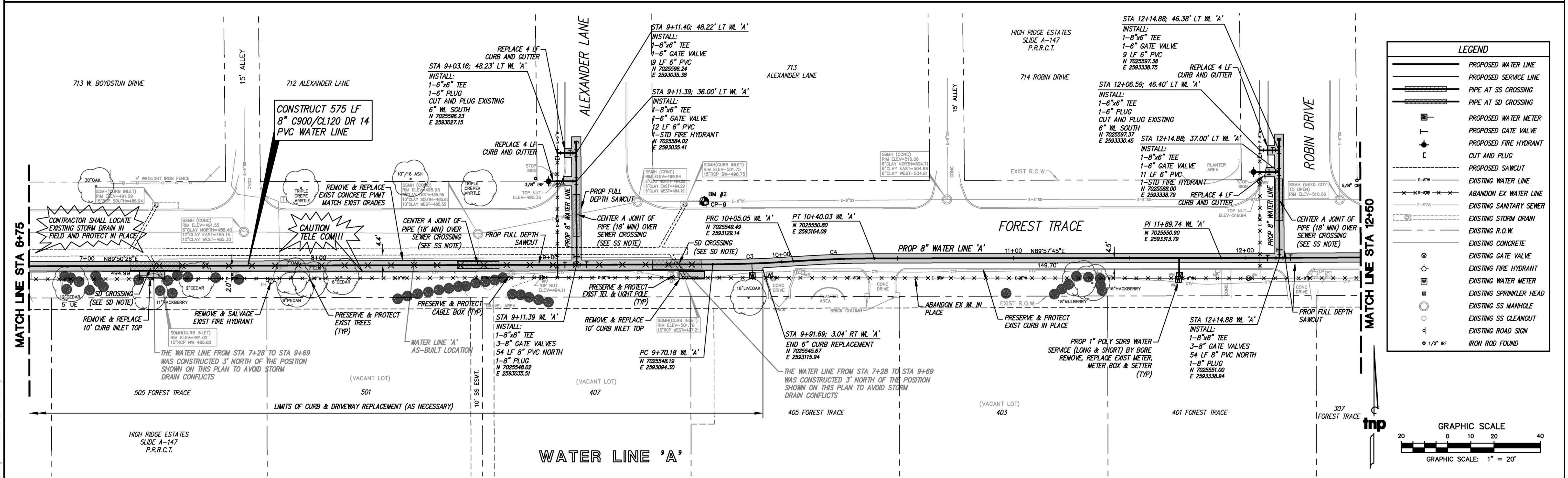


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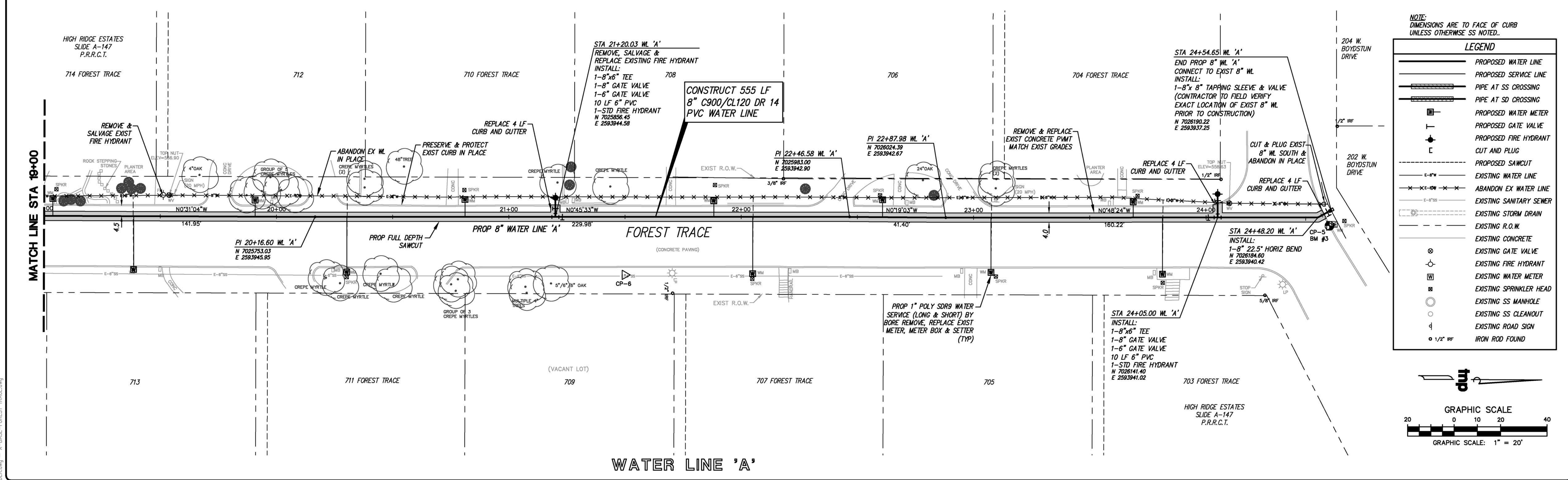
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Forest Trace Road 8" Water Line
Overall Property Sheet

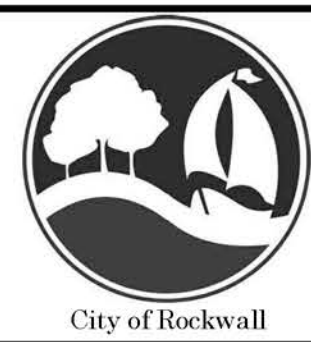
tnp project
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03



tnp project
RWL13076
sheet
04



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horiz 1" = 20'
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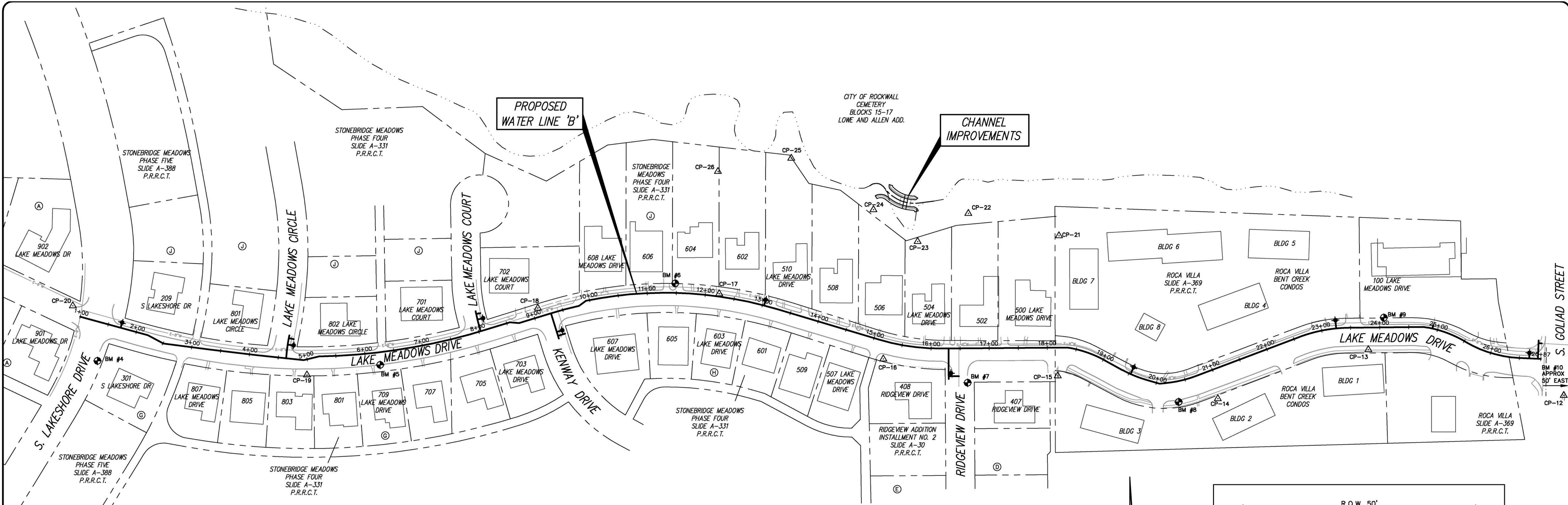
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Forest Trace Road 8" Water Line
Water Line 'A'
Sta 12+50 to End

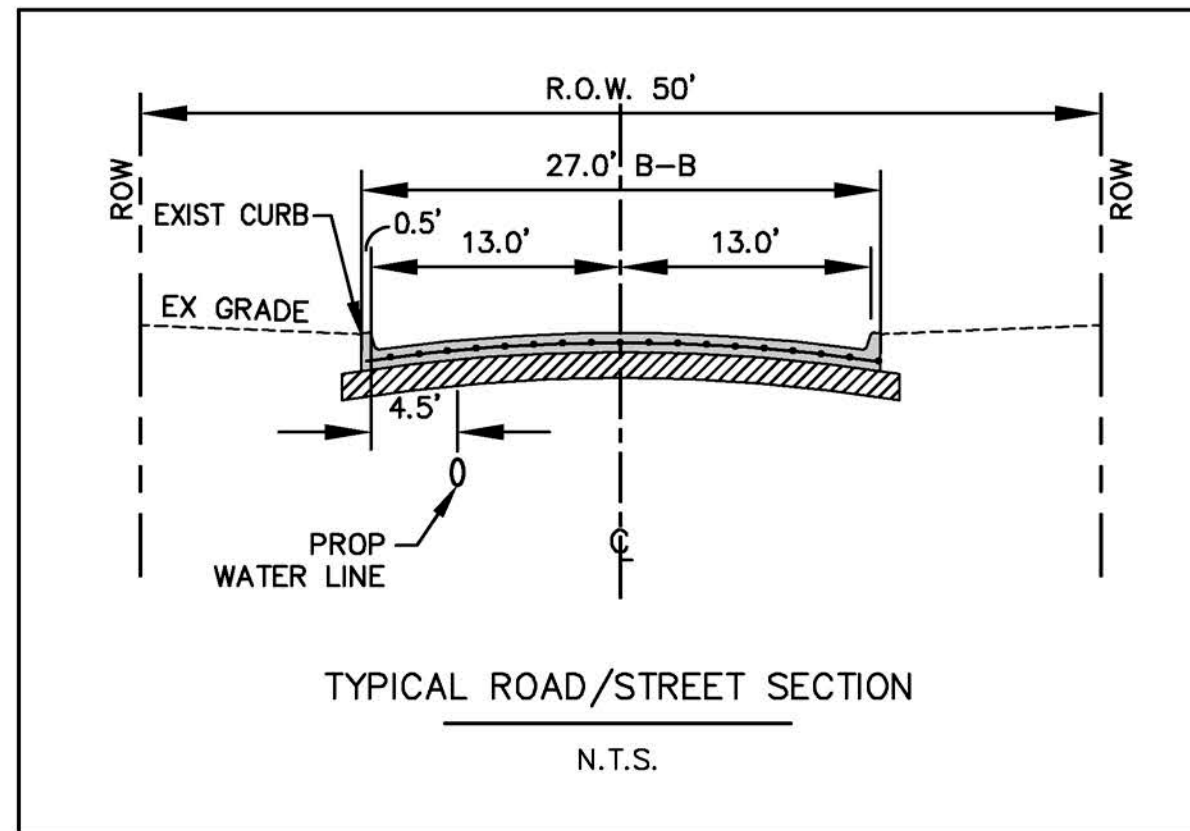
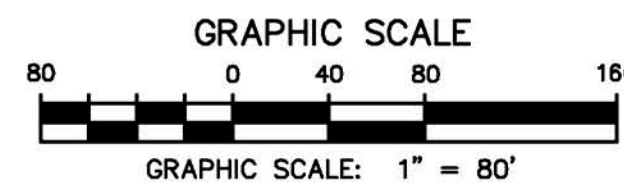
Inp project
RWL13076
sheet
05

Drawing: Q:\Projects\RW13076\CA0\Sheets\LAKE MEADOWS OVERALL PROPERTY.dwg at Nov 19, 2019 4:45pm by krios
Layout: LM-OVERALL Xrefs: X-BASE-LAKE MEADOWS.dwg - X-BORDER.dwg - X-BASE-CREEK.dwg



LAKE MEADOWS DRIVE

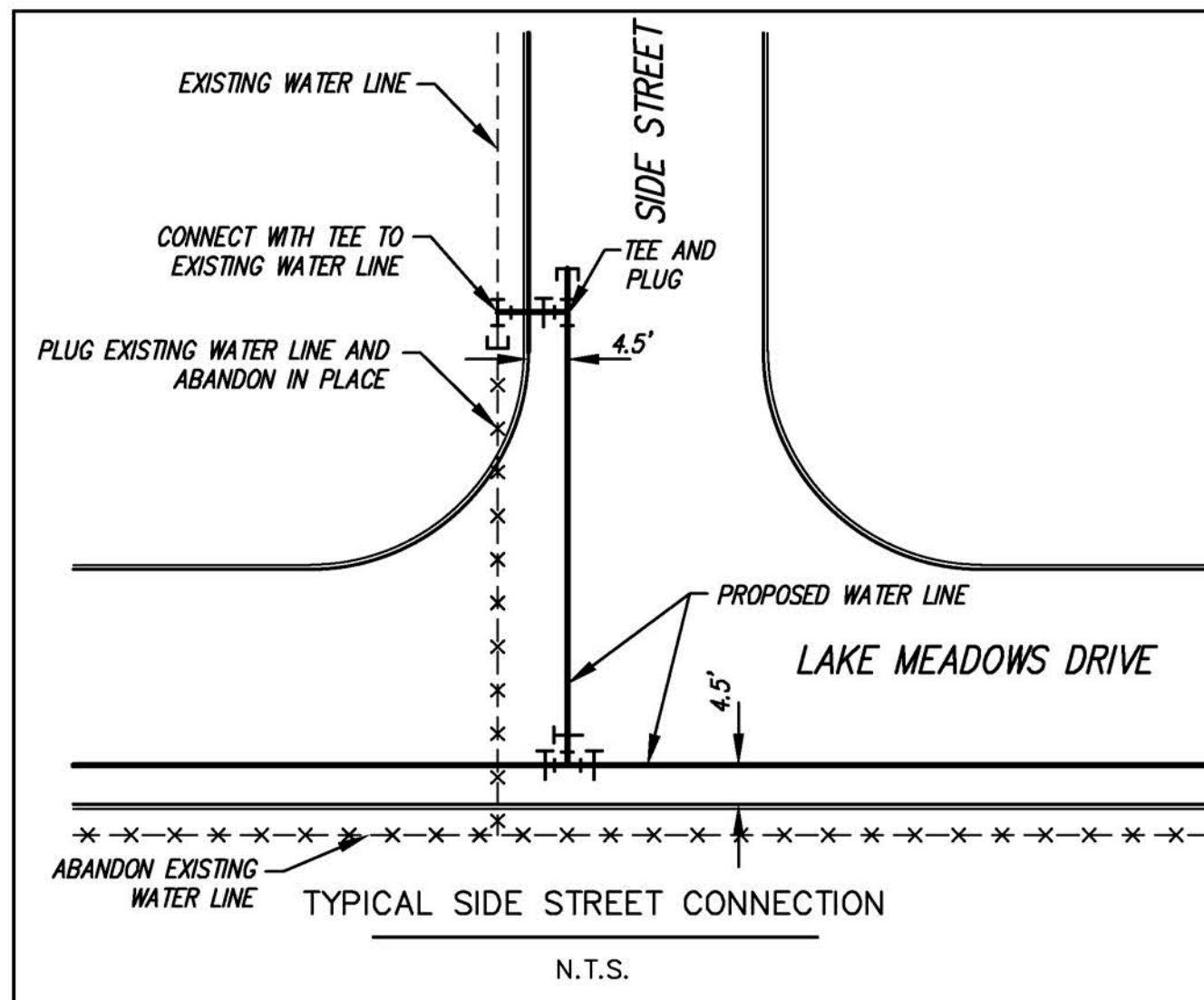
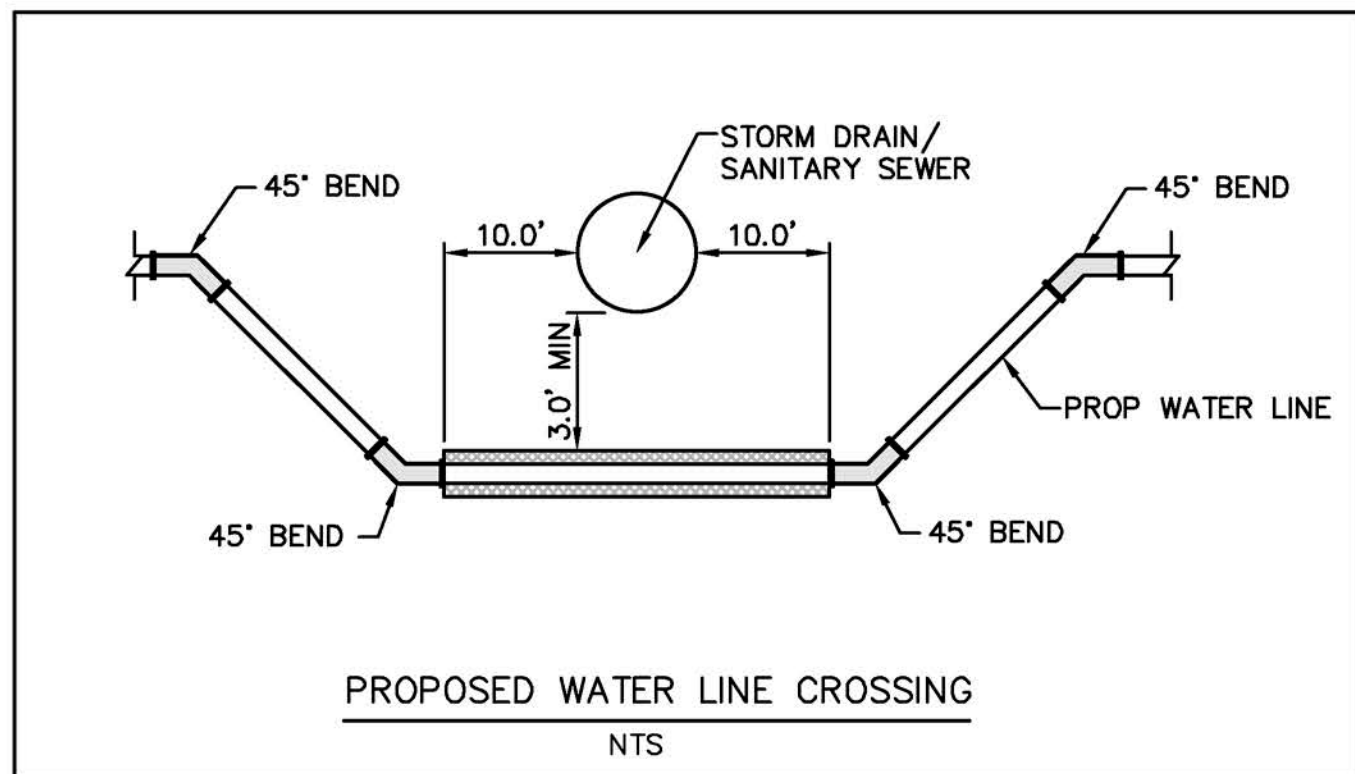
NOTE:
DIMENSIONS ARE TO FACE OF CURB
UNLESS OTHERWISE NOTED.



ADDRESS	OWNER
901 LAKE MEADOWS CT	CUTBUSH, DAVID & WENDY
902 LAKE MEADOWS CT	WALKER, TOMMY H AND SUE ANN
209 S LAKESHORE DRIVE	GAINES, WILLIAM C & KELLEY A
301 S LAKESHORE DRIVE	MYERS, GLENN L & BONNIE A
807 LAKE MEADOWS DRIVE	LARUE, ANDREW T
805 LAKE MEADOWS DRIVE	CLAY, JERRY M & ROSEMARY H
803 LAKE MEADOWS DRIVE	KENYON, ROBERT E & PATRICIA M
801 LAKE MEADOWS DRIVE	COMSTOCK, FAMILY TRUST AGREEMENT
709 LAKE MEADOWS DRIVE	SCHNEIDER, JOHN & REBECCA
707 LAKE MEADOWS DRIVE	WILCOX, EVA N
705 LAKE MEADOWS DRIVE	EASTERWOOD, TERRENCE
703 LAKE MEADOWS DRIVE	COX, RUSSELL J & NINA R
607 LAKE MEADOWS DRIVE	FORD, OPHELIA FAYE
605 LAKE MEADOWS DRIVE	YOUNG, DANIEL & RACHEL
603 LAKE MEADOWS DRIVE	HEDGER, MELODY A & TESSIE M
601 LAKE MEADOWS DRIVE	FUHRMAN, WILLIAM & DIANE WEST
509 LAKE MEADOWS DRIVE	BOYD, BLAKE & SHANNON
507 LAKE MEADOWS DRIVE	CARTER, CALVIN & EMILY
408 RIDGEVIEW DRIVE	BOSS, MORRIS EUGENE
407 RIDGEVIEW DRIVE	CLEMENTS, LARRY D & IRIS M
801 LAKE MEADOWS CIRCLE	FONTENOT, SAVANNAH R, JOHNNY & TWILLA
802 LAKE MEADOWS CIRCLE	MCCORD, BOBBY J ET UX
701 LAKE MEADOWS COURT	DAVIS, DOROTHY
702 LAKE MEADOWS COURT	MORALE, JOE MATT III
608 LAKE MEADOWS DRIVE	KAPLAN, ALBERT
606 LAKE MEADOWS DRIVE	WADE, RONALD L & BARBARA K
604 LAKE MEADOWS DRIVE	PUGH, YVONNE
602 LAKE MEADOWS DRIVE	MATNEY, RON & JEAN
510 LAKE MEADOWS DRIVE	KINSEY, KATHY MARTIN TRUSTEE
508 LAKE MEADOWS DRIVE	JOHNSON, ROBERT & KATRINA
506 LAKE MEADOWS DRIVE	EVERY, CYNTHIA S
504 LAKE MEADOWS DRIVE	DRAKE, DEBORAH KAY
502 LAKE MEADOWS DRIVE	BROACH, RONNEY & VICKI
500 LAKE MEADOWS DRIVE	AGUIRRE, GEORGE & GLENDA

CONTROL POINTS			
CP POINT DESCRIPTION	NORTHING	EASTING	ELEVATION
CP-12 PK-NAIL	N 7027358.9690	E 2594634.9199	558.51
CP-13 5/8 CIRS	N 7027437.8100	E 2594298.8682	550.59
CP-14 5/8 CIRS	N 7027353.5802	E 2594040.0231	546.27
CP-15 5/8 CIRS	N 7027392.5824	E 2593764.7755	544.40
CP-16 5/8 CIRS	N 7027421.8304	E 2593464.7343	528.47
CP-17 X CUT	N 7027533.9804	E 2593182.5979	507.80
CP-18 X CUT	N 7027509.1899	E 2592870.6913	493.45
CP-19 5/8 CIRS	N 7027394.1696	E 2592473.5647	479.21
CP-20 X CUT	N 7027513.2250	E 2592070.9477	468.80
CP-21 5/8 CIRS	N 7027633.5866	E 2593766.9112	525.10
CP-22 5/8 CIRS	N 7027672.0900	E 2593611.0144	515.84
CP-23 5/8 CIRS	N 7027623.8056	E 2593523.8302	517.83
CP-24 5/8 CIRS	N 7027678.3092	E 2593447.8120	513.41
CP-25 5/8 CIRS	N 7027766.8325	E 2593306.4323	508.60
CP-26 5/8 CIRS	N 7027744.3106	E 2593180.3298	504.94

BENCH MARKS	
BM #4: BOX CUT IN CL BACK OF A 10" INLET LOCATED ON THE EAST SIDE OF LAKE SHORE DRIVE. IT IS ALSO 60± SOUTH OF CL OF LAKE MEADOWS DRIVE.	(ELEV=466.42)
BM #5: BOX CUT IN CL OF AN 11" INLET AT BC LOCATED IN FRONT OF 709 LAKE MEADOWS DRIVE.	(ELEV=484.55)
BM #6: BOX CUT ON THE SE CORNER OF TRANSFORMER PAD LOCATED BETWEEN 604 & 606 LAKE MEADOWS DR.	(ELEV=504.81)
BM #7: BOX CUT ON EAST CURB OF RIDGEVIEW DRIVE 50± SOUTH OF CL LAKE MEADOWS DRIVE.	(ELEV=539.18)
BM #8: BOX CUT ON CL BACK OF AN 11" INLET LOCATED ON THE SOUTH SIDE LAKE MEADOWS DRIVE. IT IS LOCATED 60± WEST OF THE OFFICE FOR BEAR CREEK APARTMENTS.	(ELEV=540.53)
BM #9: BOX CUT IN CL OF 1' WIDE RETAINING WALL WITH A 3' WROUGHT IRON FENCE ON THE NORTH SIDE OF LAKE MEADOWS DRIVE. IT IS ALSO LOCATED 52± EAST OF DRIVE ENTRANCE TO BEAR CREEK APARTMENTS. IT IS ALSO 283± WEST OF THE WEST CURB OF S. GOLIAD STREET.	(ELEV=550.01)
BM #10: BOX CUT ON THE EAST SIDE OF S. GOLIAD STREET 75± NORTH OF CL STARRS STREET AND IT IS IN FRONT OF THE STOP & SAVE CONVENIENCE STORE.	(ELEV=557.60)



no.	revision	by	date



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horiz
1" = 80'
vert
N/A
date
JAN 2014

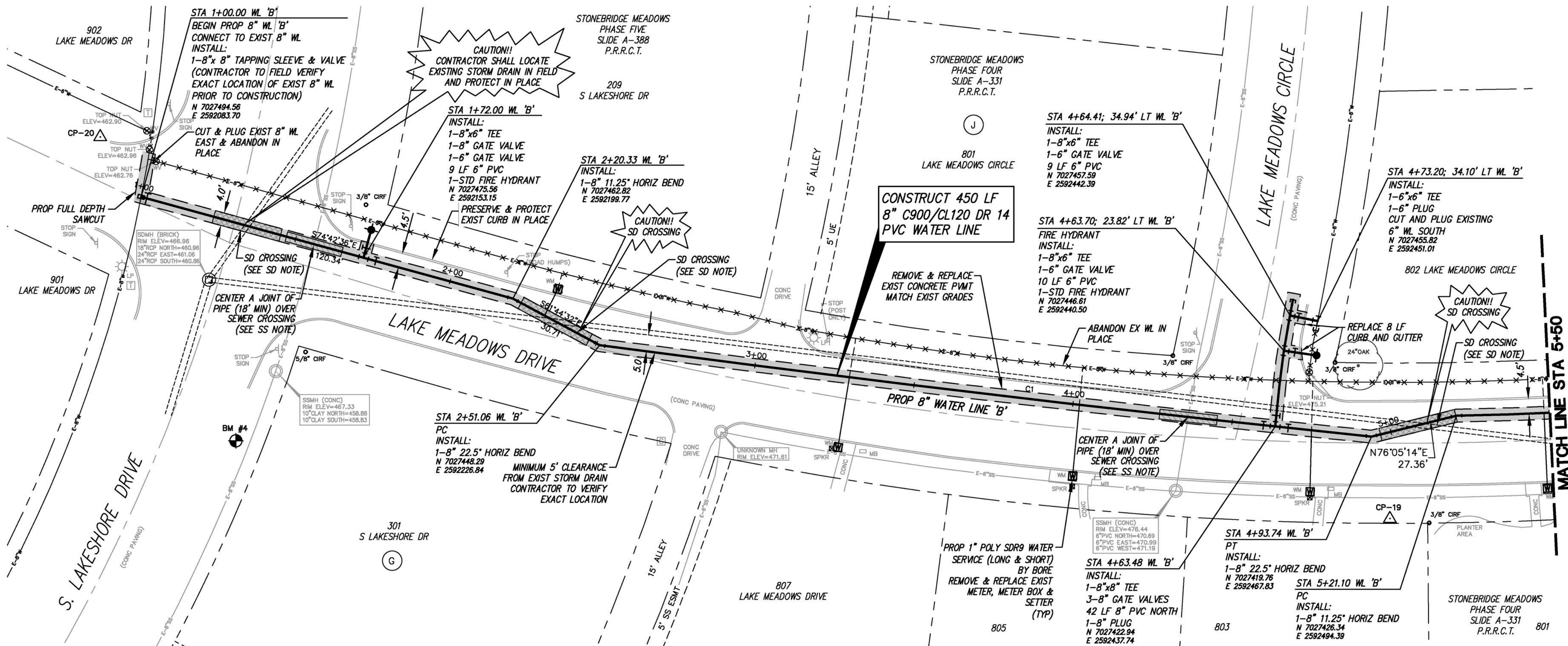


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City of Rockwall, Texas
Central Water and Sewer Improvements for
Lake Meadows Drive
Overall Property Sheet

tnp project
RW13076
sheet
06



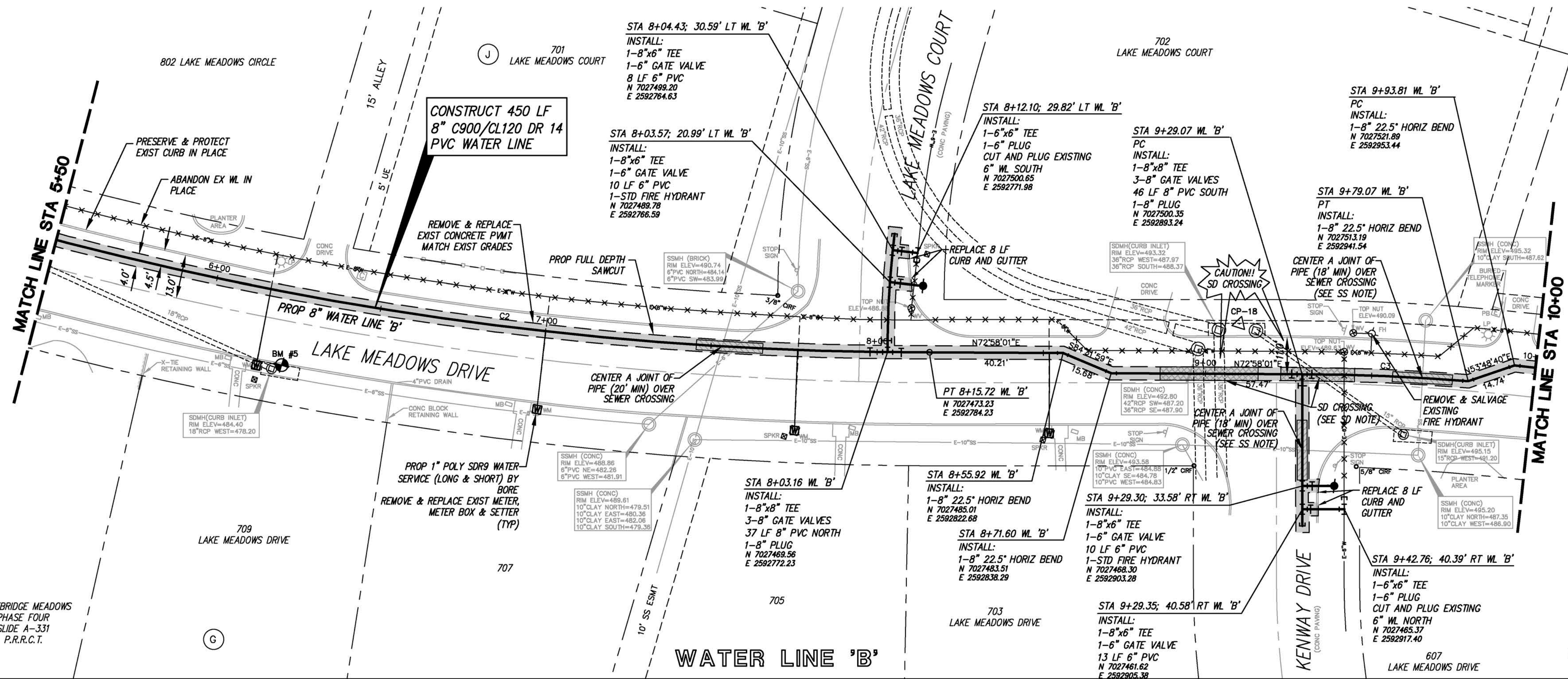
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SANITARY SEWER NOTE:
WHERE TWO-FOOT VERTICAL SEPARATION AND/OR NINE-FOOT HORIZONTAL SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATER LINE SHALL BE CONCRETE ENCASED AT LEAST 10' EACH DIRECTION FOR A CROSSING, AND FOR THE ENTIRE LENGTH WHERE HORIZONTAL SEPARATION CANNOT BE ACHIEVED. SEE WATERLINE LOWERING DETAIL.

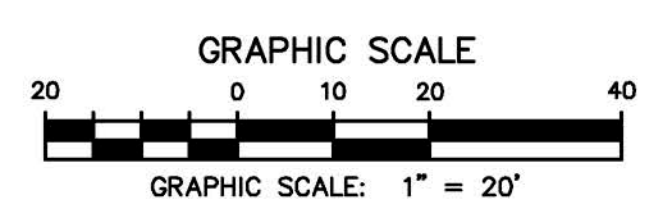
STORM DRAIN NOTE:
IF WATERLINE IS INSTALLED UNDER EXISTING STORM DRAIN, CONCRETE ENCASE THE WATERLINE 10' EITHER SIDE OF THE CROSSING. SEE WATERLINE LOWERING DETAIL.

NOTE:
DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALIGNMENT CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
C1	001°38'09"	8500.00	121.35	242.68
C2	016°23'18"	1030.00	148.32	294.61
C3	004°16'56"	669.00	25.01	50.00
C4	028°13'48"	675.00	169.74	332.58

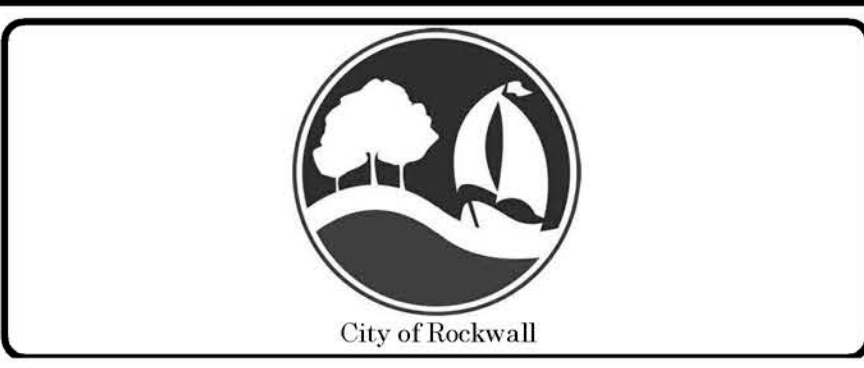


LEGEND	
	PROPOSED WATER LINE
	PROPOSED SERVICE LINE
	PIPE AT SS CROSSING
	PIPE AT SD CROSSING
	PROPOSED WATER METER
	PROPOSED GATE VALVE
	PROPOSED FIRE HYDRANT
	CUT AND PLUG
	PROPOSED SAWCUT
	EXISTING WATER LINE
	ABANDON EX WATER LINE
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING R.O.W.
	EXISTING CONCRETE
	EXISTING GATE VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING SPRINKLER HEAD
	EXISTING SS MANHOLE
	EXISTING SS CLEANOUT
	EXISTING ROAD SIGN
	IRON ROD FOUND



Drawing: Q:\Projects\RWL13076\CA0\Sheets\LAKE MEADOWS WATER.dwg at Nov 19, 2019 - 4:46pm by krios
Layout: Lnk-WT
Xref: X-BORDER.dwg - X-BASE-LAKE MEADOWS.dwg

no.	revision	by	date



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1" =	20'
vert	N/A
date	JAN 2014

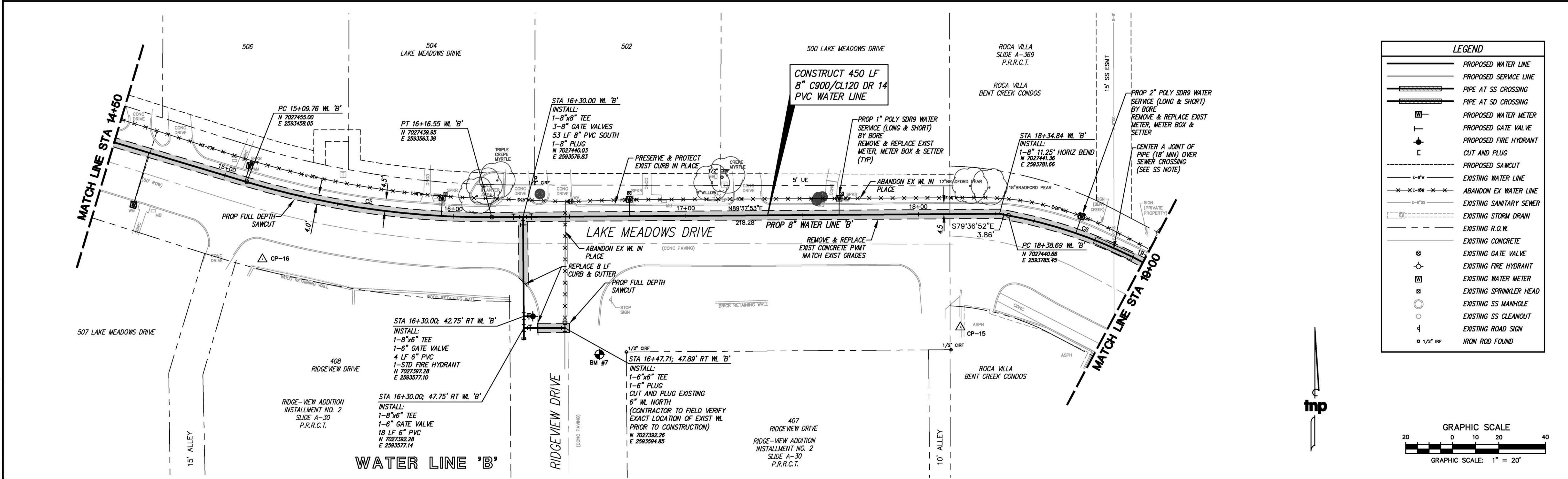
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Lake Meadows Drive 8" Water Line
Water Line 'B'
Sta 1+00 to Sta 10+00

tnp project	RWL13076
sheet	07

Drawing: Q:\Projects\RWL13076\CA0\Sheets\LAKE MEADOWS WATER.dwg at Nov 19, 2019 - 4:46pm by krios
Layout: L1K-W2 Xref: X-BORDER.dwg - X-BASE-LAKE MEADOWS.dwg



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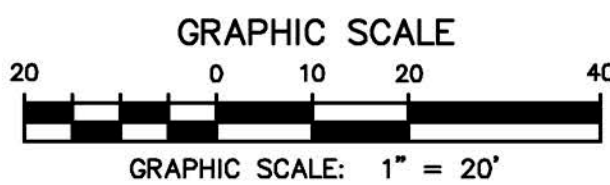
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STORM DRAIN NOTE:
IF WATERLINE IS INSTALLED UNDER EXISTING STORM DRAIN, CONCRETE ENCASE THE WATERLINE 10' EITHER SIDE OF THE CROSSING. SEE WATERLINE LOWERING DETAIL.

NOTE:
DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALIGNMENT CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
C4	028°13'48"	675.00	169.74	332.58
C5	016°59'46"	360.00	53.79	106.79
C6	018°14'23"	200.00	32.11	63.67

LEGEND	
	PROPOSED WATER LINE
	PROPOSED SERVICE LINE
	PIPE AT SS CROSSING
	PIPE AT SD CROSSING
	PROPOSED WATER METER
	PROPOSED GATE VALVE
	PROPOSED FIRE HYDRANT
	CUT AND PLUG
	PROPOSED SAWCUT
	EXISTING WATER LINE
	ABANDON EX WATER LINE
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING R.O.W.
	EXISTING CONCRETE
	EXISTING GATE VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING SPRINKLER HEAD
	EXISTING SS MANHOLE
	EXISTING SS CLEANOUT
	EXISTING ROAD SIGN
	IRON ROD FOUND



no.	revision	by	date



scale
horiz
1" = 20'
vert
N/A
date
JAN 2014

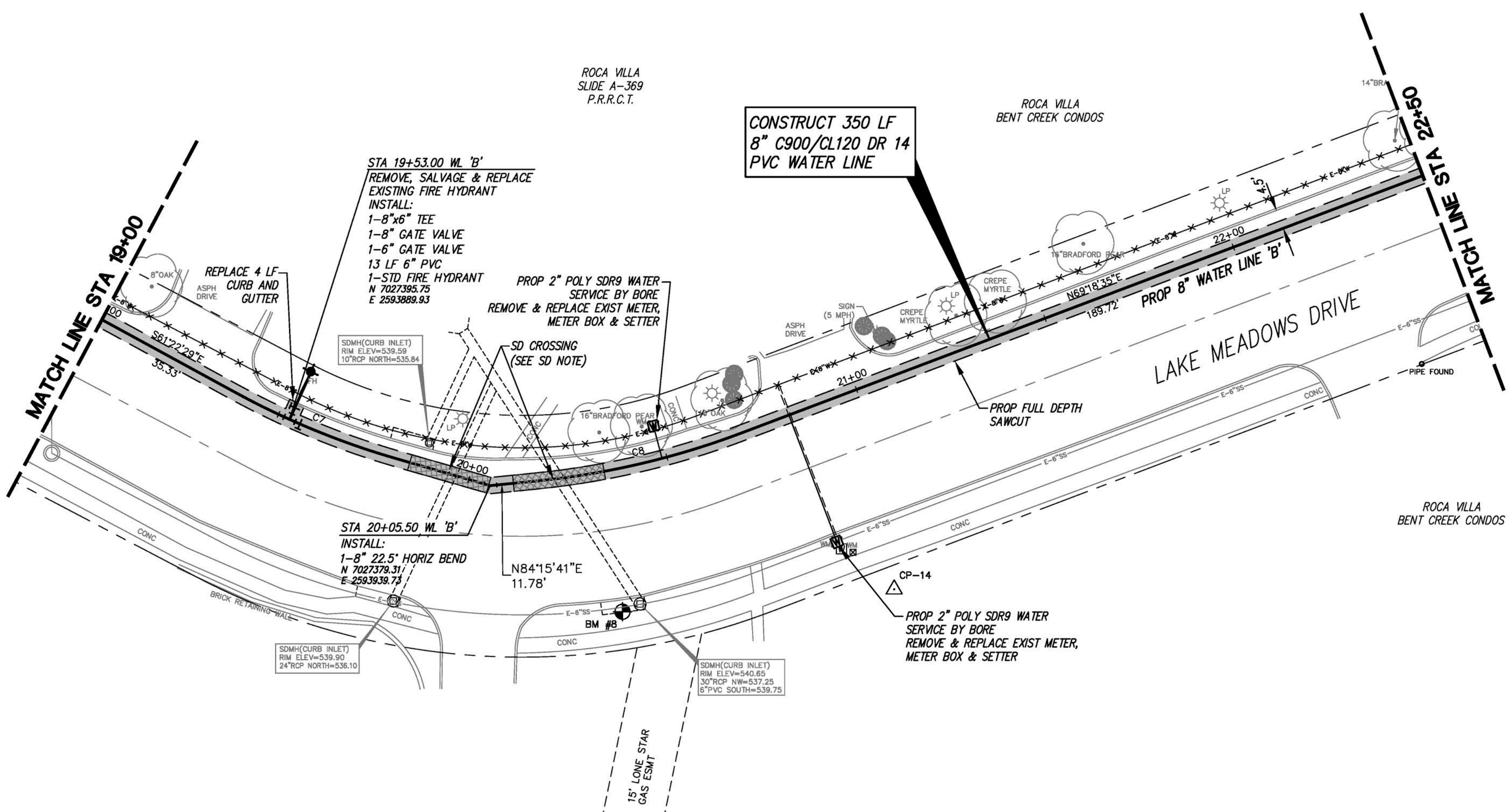
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Lake Meadows Drive 8" Water Line
Water Line 'B'
Sta 10+00 to Sta 19+00

tnp project
RWL13076

sheet
08



WATER LINE ABANDONMENT NOTE:

THE EXISTING WATER LINES SHALL BE ABANDONED AS FOLLOWS:

(A) AFTER EACH SECTION OF THE EXISTING WATER LINE IS TAKEN OUT OF SERVICE, THE ABANDONED SECTION SHALL BE COMPLETELY DRAINED, INCLUDING PUMPING WATER FROM THE SYSTEM, AS NECESSARY.

(B) ANY AND ALL OPENINGS INTO THE EXISTING PIPE WILL BE CLOSED BY USE OF APPROVED M.J. CAST IRON CAPS OR PLUGS AND BLOCKING ACCORDING TO THE PLANS, SPECIFICATIONS AND/OR DETAILS GOVERNING SUCH WORK.

(C) EXISTING VALVES MAY BE USED TO CLOSE THE EXISTING SYSTEM, BUT NO OPEN PIPE SHALL EXTEND OUTSIDE THE VALVE.

(D) VALVE STACKS OUTSIDE OF PAVING SHALL BE REMOVED AND BACKFILLED WITH SOIL.

(E) VALVE STACKS IN PAVING SHALL HAVE THE TOP REMOVED AND THE STACK BACKFILLED WITH 3000 PSI CONCRETE FLUSH WITH THE TOP OF THE SURROUNDING PAVEMENT, OR AS DIRECTED BY THE ENGINEER.

(F) NO PORTION OF AN ABANDONED WATER LINE SHALL REMAIN CONNECTED TO A PRESSURIZED IN SERVICE LINE.

CAUTION!!

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SANITARY SEWER NOTE:

WHERE TWO-FOOT VERTICAL SEPARATION AND/OR NINE-FOOT HORIZONTAL SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATER LINE SHALL BE CONCRETE ENCASED AT LEAST 10' EACH DIRECTION FOR A CROSSING, AND FOR THE ENTIRE LENGTH WHERE HORIZONTAL SEPARATION CANNOT BE ACHIEVED. SEE WATERLINE LOWERING DETAIL.

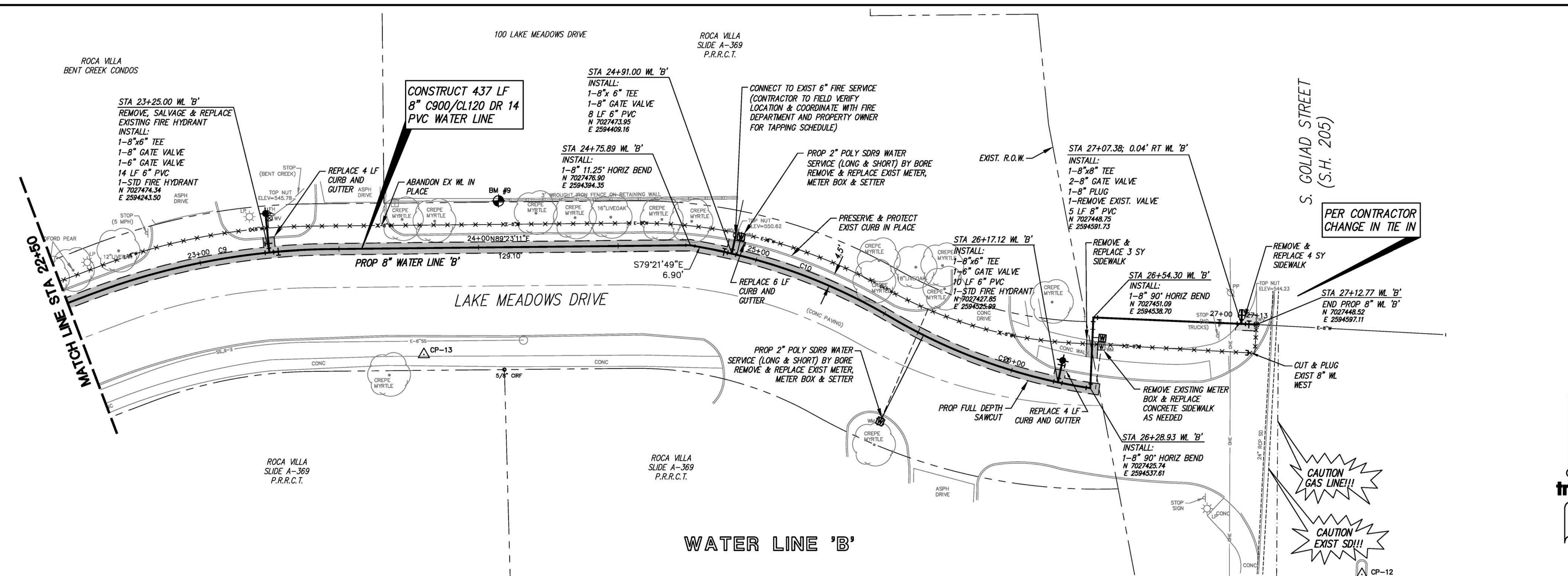
STORM DRAIN NOTE:

IF WATERLINE IS INSTALLED UNDER EXISTING STORM DRAIN, CONCRETE ENCASE THE WATERLINE 10' EITHER SIDE OF THE CROSSING. SEE WATERLINE LOWERING DETAIL.

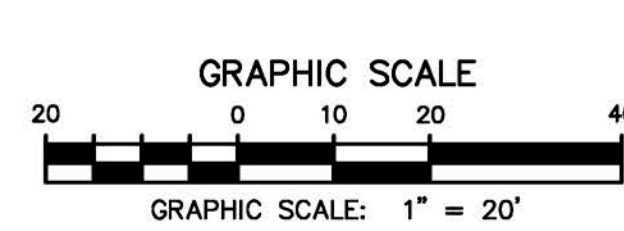
NOTE:

DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALIGNMENT CURVE TABLE				
CURVE #	DELTA	RADIUS	TANGENT	LENGTH
C7	012°35'07"	200.00	22.05	43.93
C8	014°57'06"	200.00	26.24	52.19
C9	020°04'36"	250.00	44.25	87.60
C10	019°56'06"	200.00	35.15	69.59
C11	021°55'50"	200.00	38.75	76.55

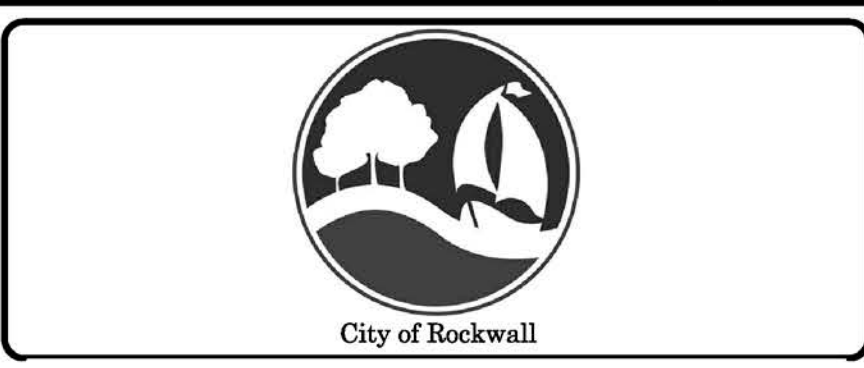


LEGEND	
	PROPOSED WATER LINE
	PROPOSED SERVICE LINE
	PIPE AT SS CROSSING
	PIPE AT SD CROSSING
	PROPOSED WATER METER
	PROPOSED GATE VALVE
	PROPOSED FIRE HYDRANT
	CUT AND PLUG
	PROPOSED SAWCUT
	EXISTING WATER LINE
	ABANDON EX WATER LINE
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING R.O.W.
	EXISTING CONCRETE
	EXISTING GATE VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING SPRINKLER HEAD
	EXISTING SS MANHOLE
	EXISTING SS CLEANOUT
	EXISTING ROAD SIGN
	IRON ROD FOUND



Drawing: Q:\Projects\RW13076\PlanSets\AS-BUILTS\0407-09 LAKE MEADOWS WATER.dwg at May 11, 2020-10:06am by jpayne
Layout: Lnk-W3 Xref: X-BORDER.dwg - X-BASE-LAKE MEADOWS.dwg

no.	revision	by	date



scale
horiz
1" = 20'
vert
N/A
date
JAN 2014

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Dallas, Texas 75252
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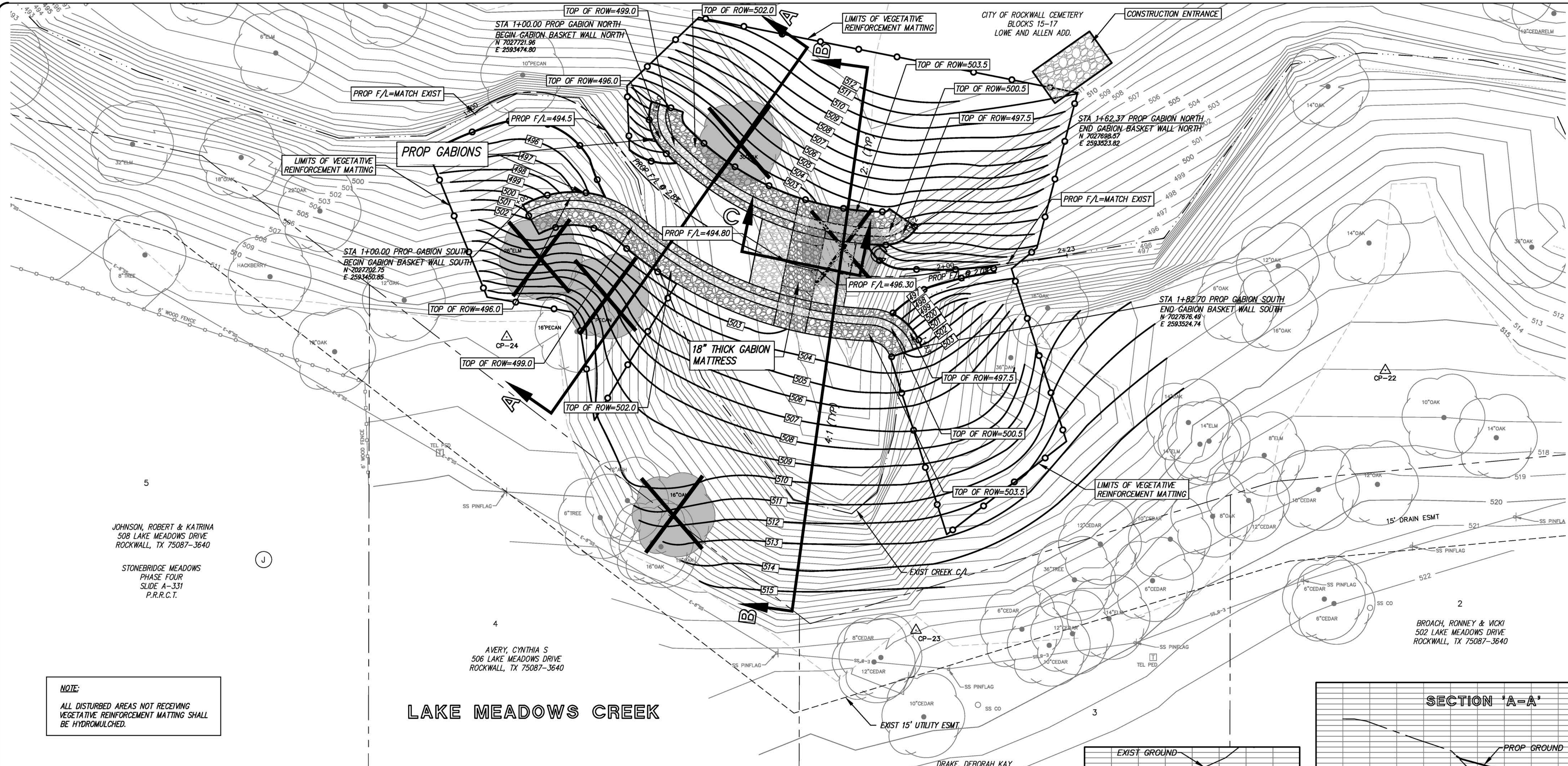
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Lake Meadows Drive 8" Water Line
Water Line 'B'
Sta 19+00 to End

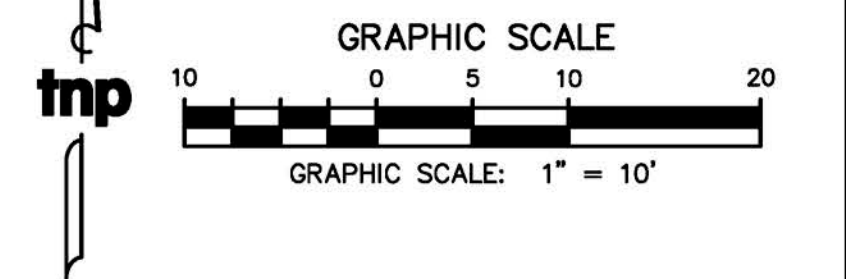
tnp project
RW13076
sheet
09

Drawing: Q:\Projects\RWL13076\PlanSets\AS-BUILTS\CAO\10 LAKE MEADOWS CREEK.dwg at May 11, 2020--5:57am by jpcyne
LAYOUT: LM-G1
Xrefs: X-BORDER.dwg - X-BASE-CREEK.dwg - X-DESIGN.dwg

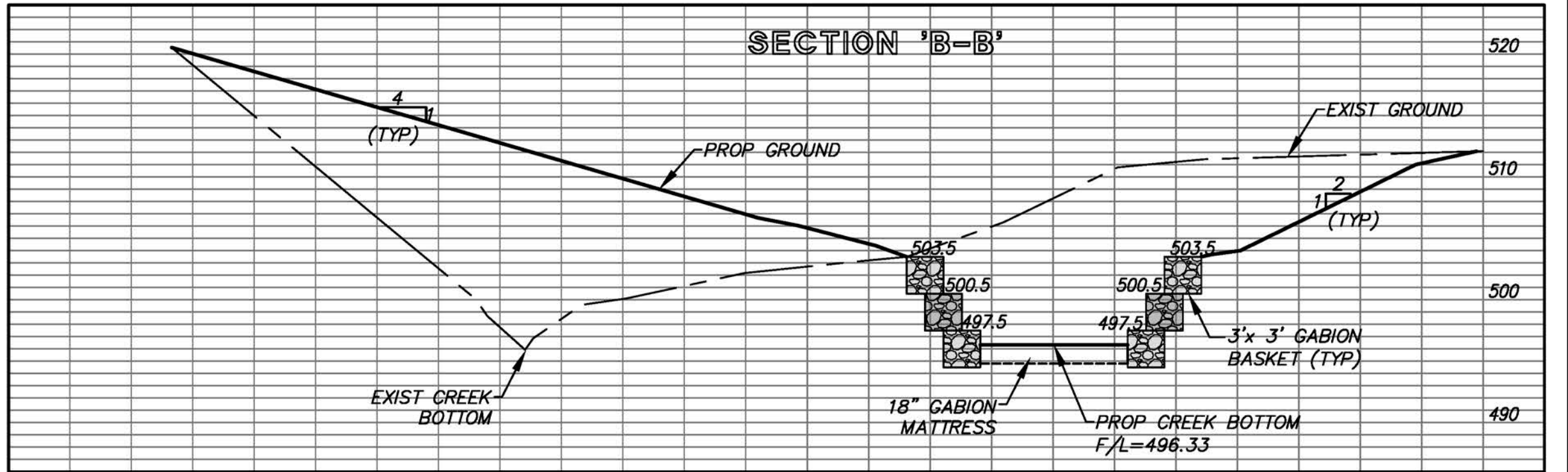
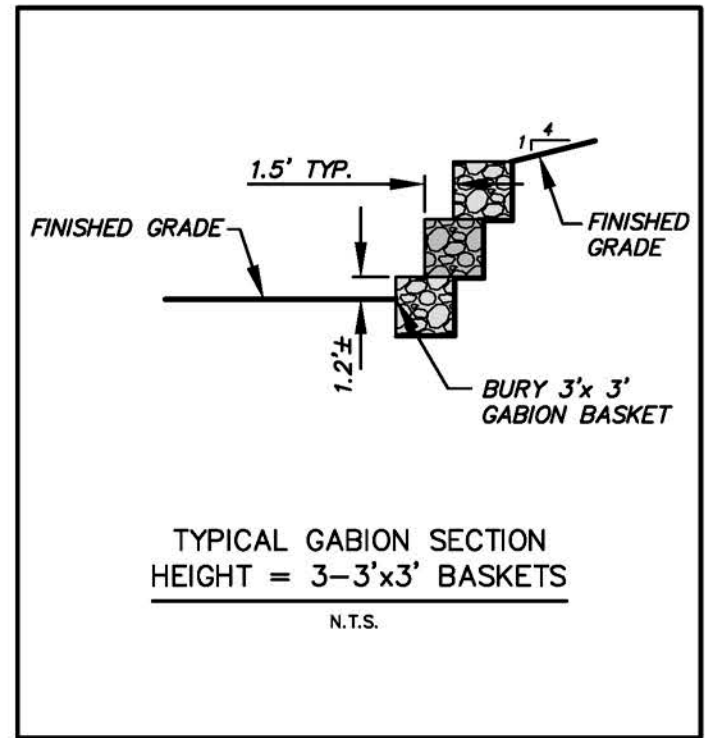
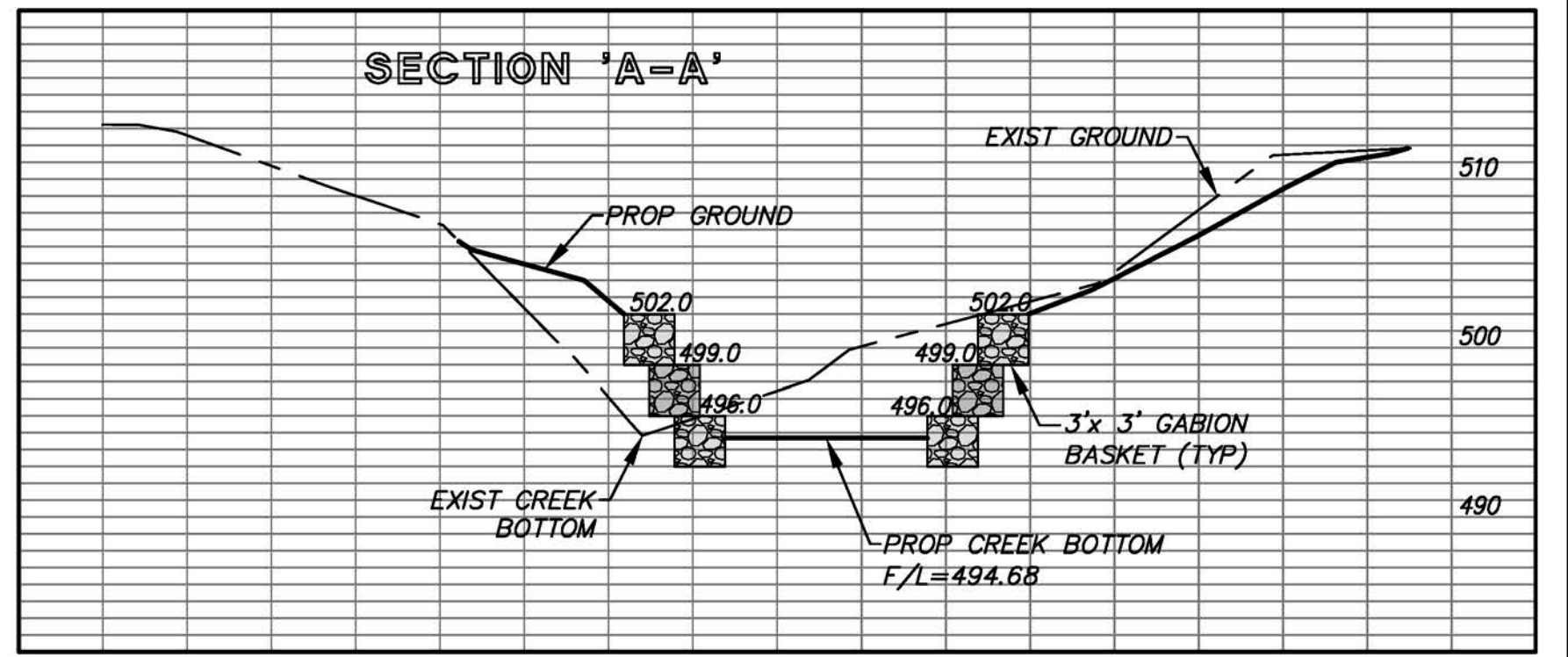
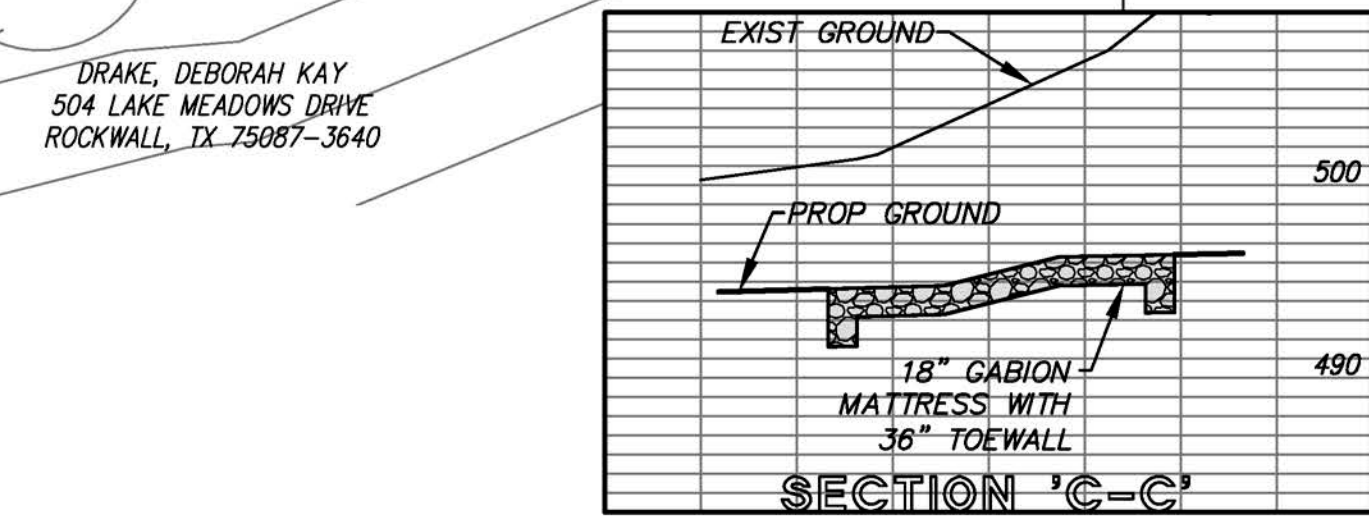
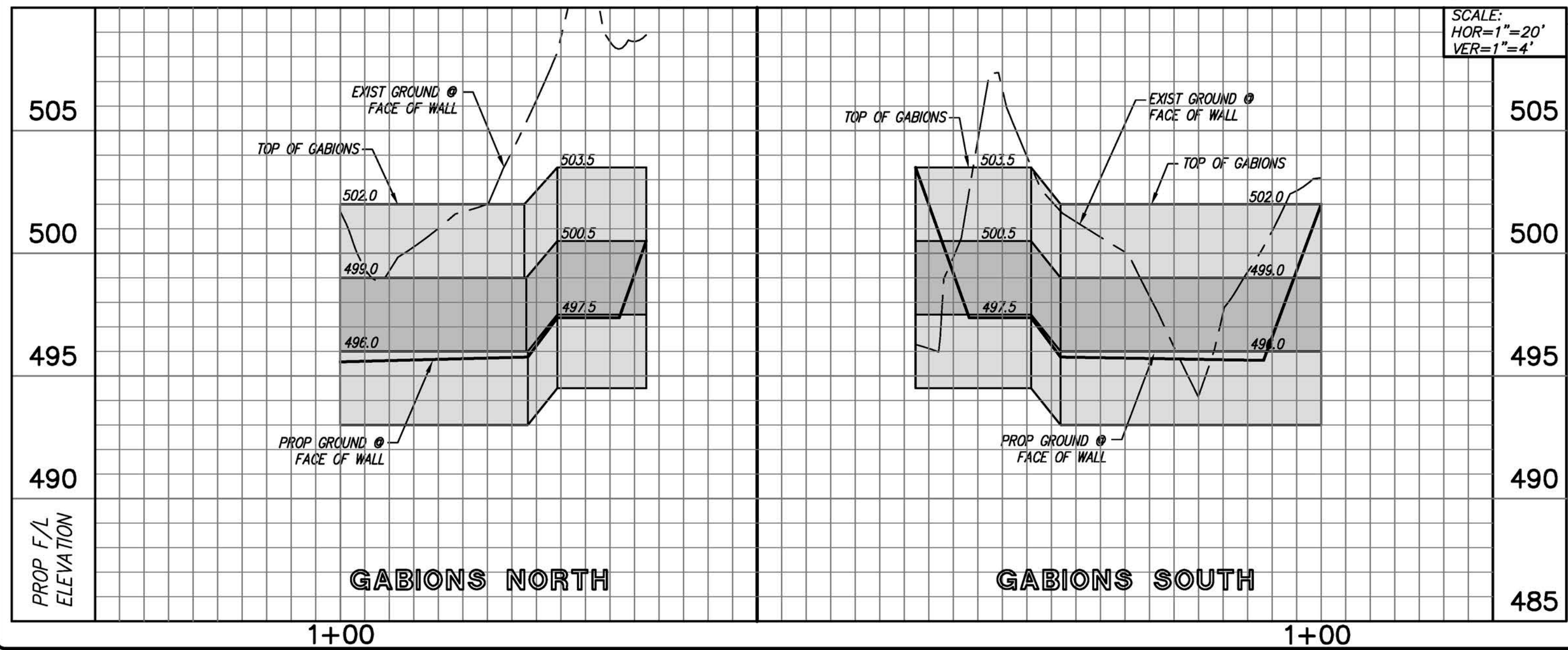


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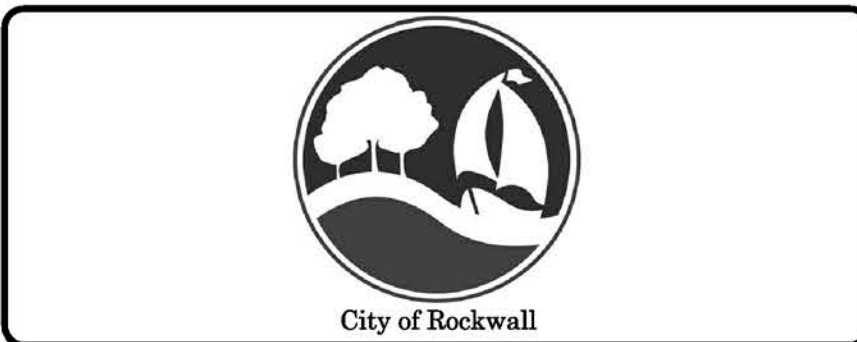
LEGEND	
	PROPOSED CENTERLINE
	PROPOSED GABION WALL
	PROPOSED CONTOUR
	PROPOSED TREE REMOVAL
	LIMITS OF VEGETATIVE REINFORCEMENT MATTING
	EXIST CONTOUR MAJOR
	EXIST CONTOUR MINOR
	EXIST FLOWLINE
	TOP OF BANK
	BOTTOM OF BANK
	EXISTING SANITARY SEWER
	EXISTING STORM DRAIN
	EXISTING SS MANHOLE
	EXISTING SS CLEANOUT
	EXISTING SIGN



NOTE:
ALL DISTURBED AREAS NOT RECEIVING VEGETATIVE REINFORCEMENT MATTING SHALL BE HYDROMULCHED.



no.	revision	by	date



scale
horiz
1" = 20'
vert
1" = 4'
date
JAN 2014

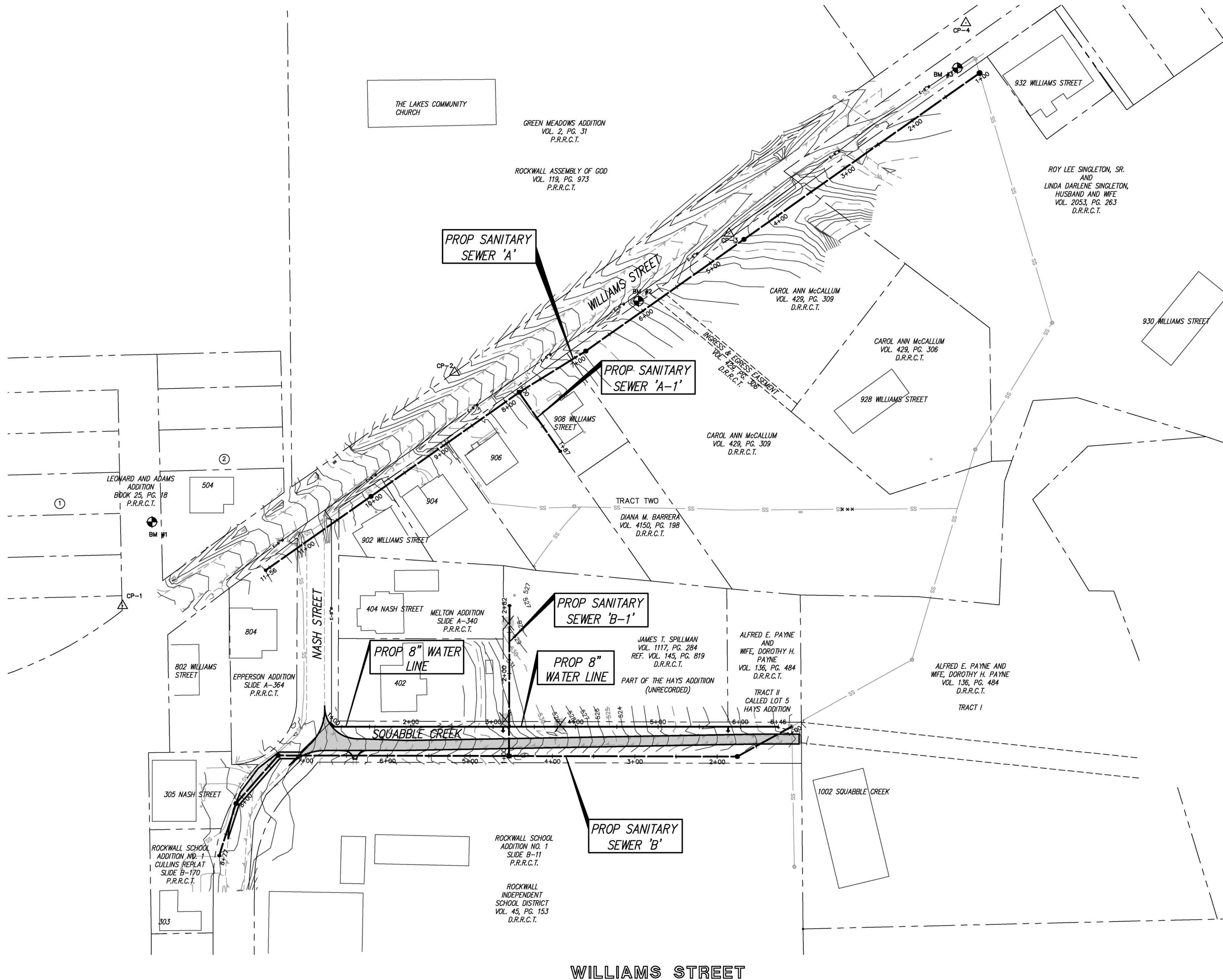
teague nall & perkins
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Dallas, Texas 75252
214.461.9867 ph 214.461.9864 fx
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Lake Meadows Channel Improvements
Gabion Plan and Profile

tnp project
RWL13076
sheet
10

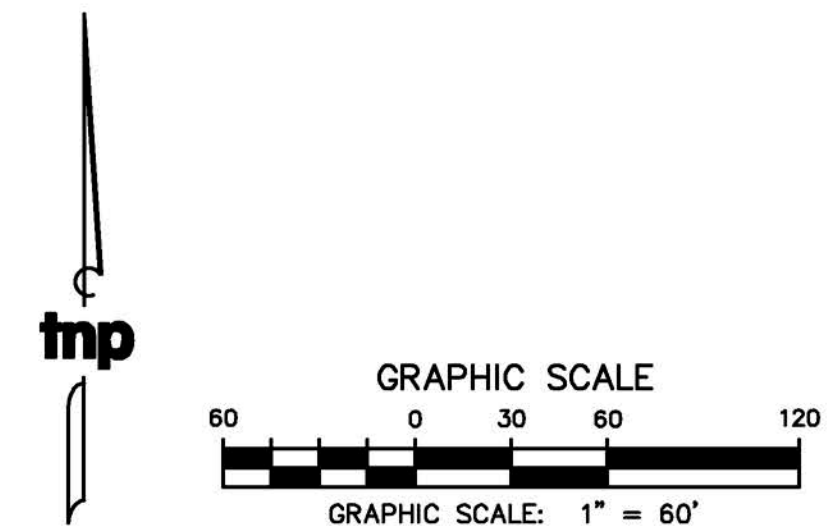
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Layout: MW-Overall Xrefs: X-BASE: WILLIAM.dwg - X-BORDER.dwg



ADDRESS	OWNER
802 WILLIAMS STREET	WILCOXSON, TIMOTHY P & CYNTHIA
804 WILLIAMS STREET	MOSES, REX & KERRI
902 WILLIAMS STREET	FLORENCE, CAROLYN
904 WILLIAMS STREET	MELTON, PAUL C & MELTON, RICHARD L
906 WILLIAMS STREET	KHATER, CHARLES & PIERETTE
908 WILLIAMS STREET	BARRERA, DIANA M
928 WILLIAMS STREET	LAWRENCE, CAROL MCCALLUM
930 WILLIAMS STREET	SINGLETON, ROY LEE SR & LINDA D
932 WILLIAMS STREET	CANTRELL, JANET SUE
303 NASH STREET	CULLINS, KYM
305 NASH STREET	SPILLER, OLIVER R & KAREN E
402 NASH STREET	SPILLMAN, PATRICIA C
404 NASH STREET	RAGSDILL, SCOTT A & PAMELA ANN
504 NASH STREET	CURRIE, DUNCAN & JOETTA
1002 SQUABBLE CREEK	PAYNE, ALFRED & DOROTHY

CONTROL POINTS			
CP	POINT DESCRIPTION	NORTHING	EASTING ELEVATION
CP-1	5/8 CIRS	N 7029859.2626	E 2596552.1305 554.29
CP-2	5/8 CIRS	N 7030142.5756	E 2596955.0677 526.92
CP-3	5/8 CIRS	N 7030311.3362	E 2597288.3187 509.82
CP-4	5/8 CIRS	N 7030566.9639	E 2597575.6299 515.85

BENCH MARKS	
BM #1: BOX CUT ON CURB IN FRONT OF 504 NASH STREET. IT IS ALSO ON THE EAST CURB LINE AND 100'± NORTH OF WILLIAMS STREET.	(ELEV=550.59)
BM #2: BM 12: RR SPIKE SET IN NORTH SIDE OF PP ON SOUTH SIDE OF WILLIAMS STREET. IT IS 150'± EAST OF PROPERTY LINE OF 908 WILLIAMS STREET.	(ELEV=516.55)
BM #3: BOX CUT ON CONC BASE OF SCHOOL ZONE LIGHT AND IS LOCATED ON THE SOUTH SIDE OF WILLIAMS STREET.	(ELEV=514.94)



no.	revision	by	date



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horiz
1" = 60'
vert
N/A
date
DAN 2014

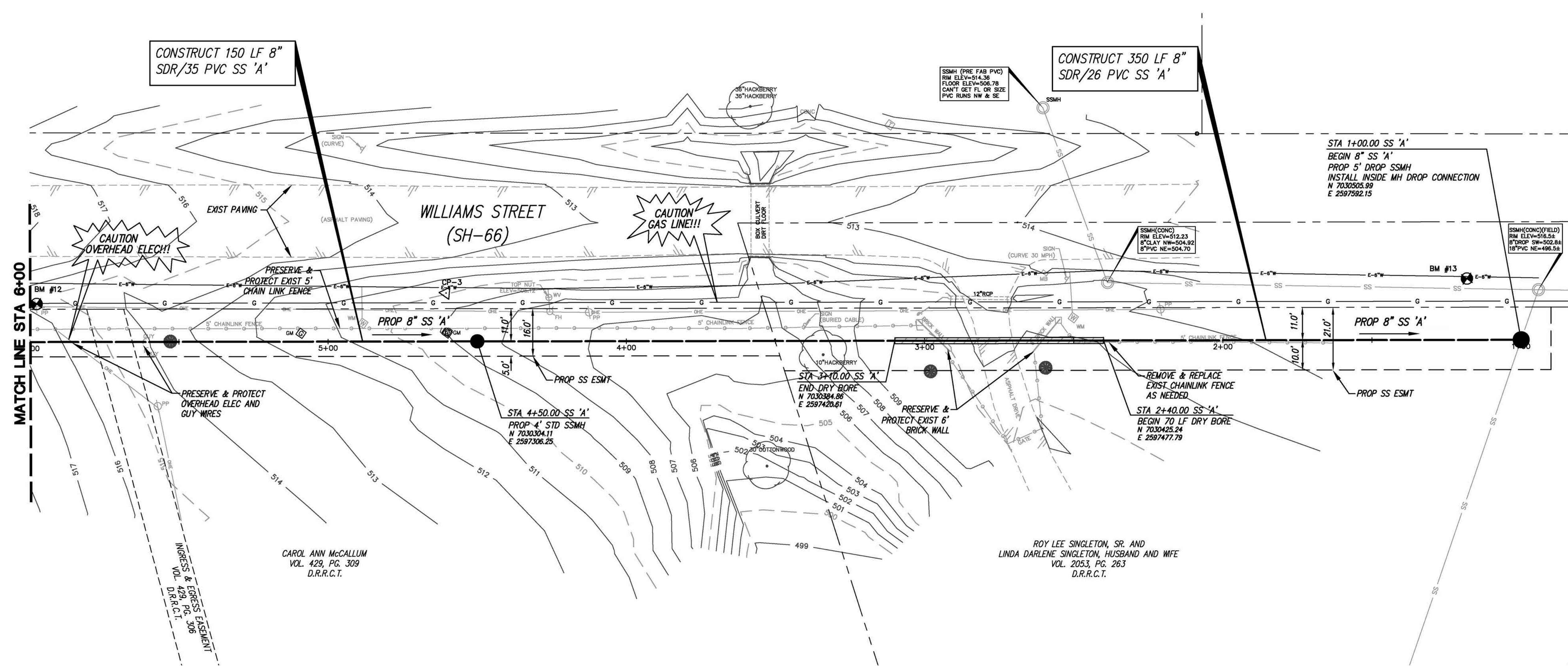


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City of Rockwall, Texas
Central Water and Sewer Improvements for
Williams Street 8" Sanitary Sewer
Overall Property Sheet

tnp project
RWL13076
sheet
11



CAUTION!!
EXISTING UTILITIES

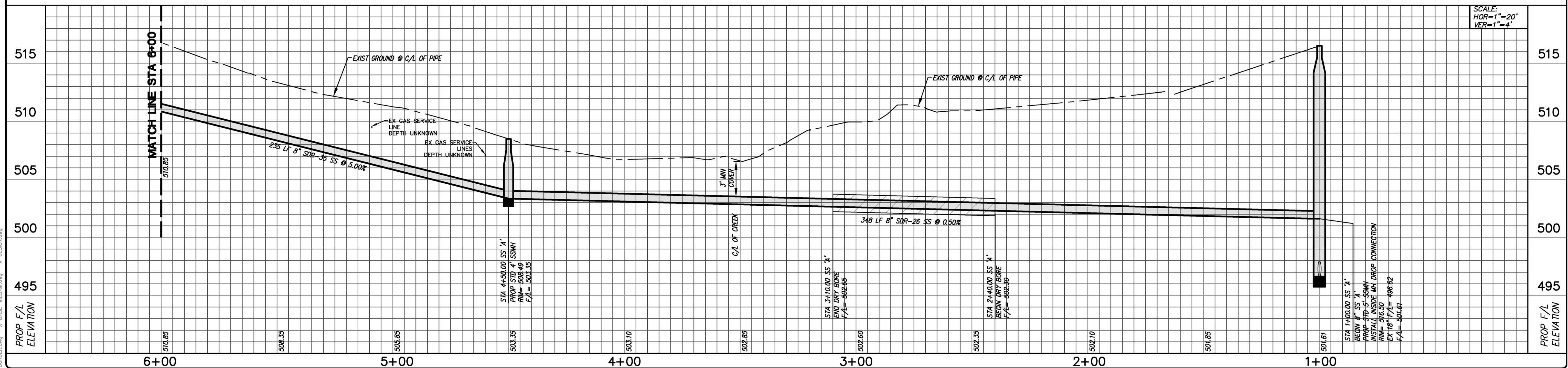
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LEGEND

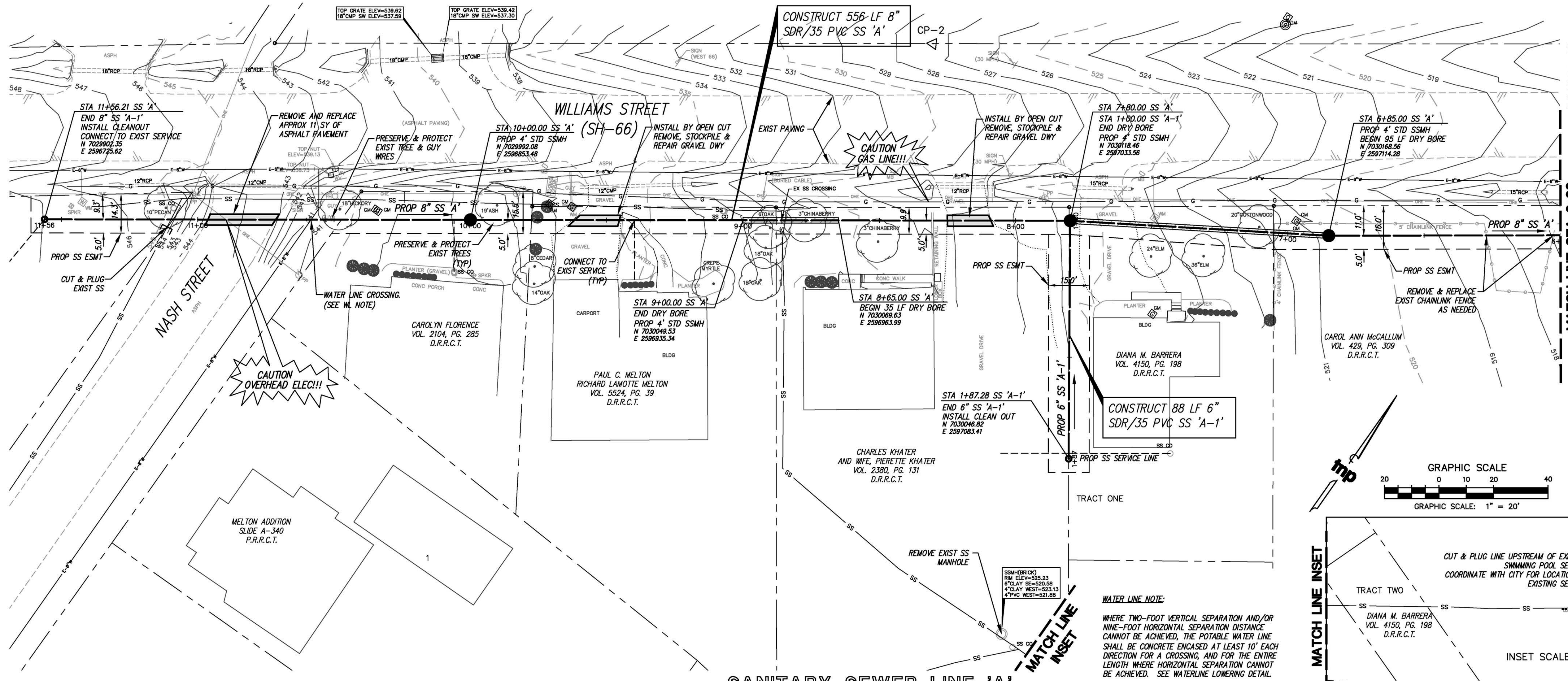
- PROP SAN SEWER LINE
- PROPOSED SERVICE LINE
- PROPOSED SS MANHOLE
- PROPOSED CLEANOUT
- PROPOSED BORE
- PROPOSED EASEMENT
- EXISTING SANITARY SEWER
- ABANDON EX SS LINE
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING R.O.W.
- EXISTING CONCRETE
- EXISTING SS MANHOLE
- EXISTING SS CLEANOUT
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING SPRINKLER HEAD
- EXISTING GAS METER
- EXISTING ROAD SIGN
- IRON ROD FOUND
- EXIST PAVEMENT
- PROP GABION

GRAPHIC SCALE
0 10 20 40
GRAPHIC SCALE: 1" = 20'

SANITARY SEWER LINE 'A'



no.	revision	by	date	 City of Rockwall	scale horiz 1" = 20' vert 1" = 4' date JAN 2014	 teague nail & perkins 17304 Preston Road, Suite 1340 Dallas, Texas 75252 214.461.9867 ph 214.461.9864 fx TBPE Registration No. F-230 www.tnpsc.com	RECORD DOCUMENTS THESE PLANS ARE FOR THE OWNER'S USE AS RECORD SET OF THE CONSTRUCTED PROJECT, AND REFLECT REVISIONS AND CONSTRUCTION RELATED CHANGES AS RECORDED BY THE CONTRACTOR. CHANGES MADE FROM THE ORIGINAL CONSTRUCTION DOCUMENTS DO NOT DEPICT ENGINEERING AND ARE NOT THE RESPONSIBILITY OF TEAGUE NAIL & PERKINS, INC. OR THE ENGINEER OF RECORD ON THE ORIGINAL DOCUMENTS. ORIGINAL PLANS RELEASED FOR CONSTRUCTION WERE SEALED BY CASEY McBROOM, P.E. NO. 410104 ON 02/12/2014.	City of Rockwall, Texas Central Water and Sewer Improvements for Williams Street 8" Sanitary Sewer Sanitary Sewer 'A' Plan and Profile Sta 1+00 to Sta 6+00	tnp project RWL13076 sheet 12

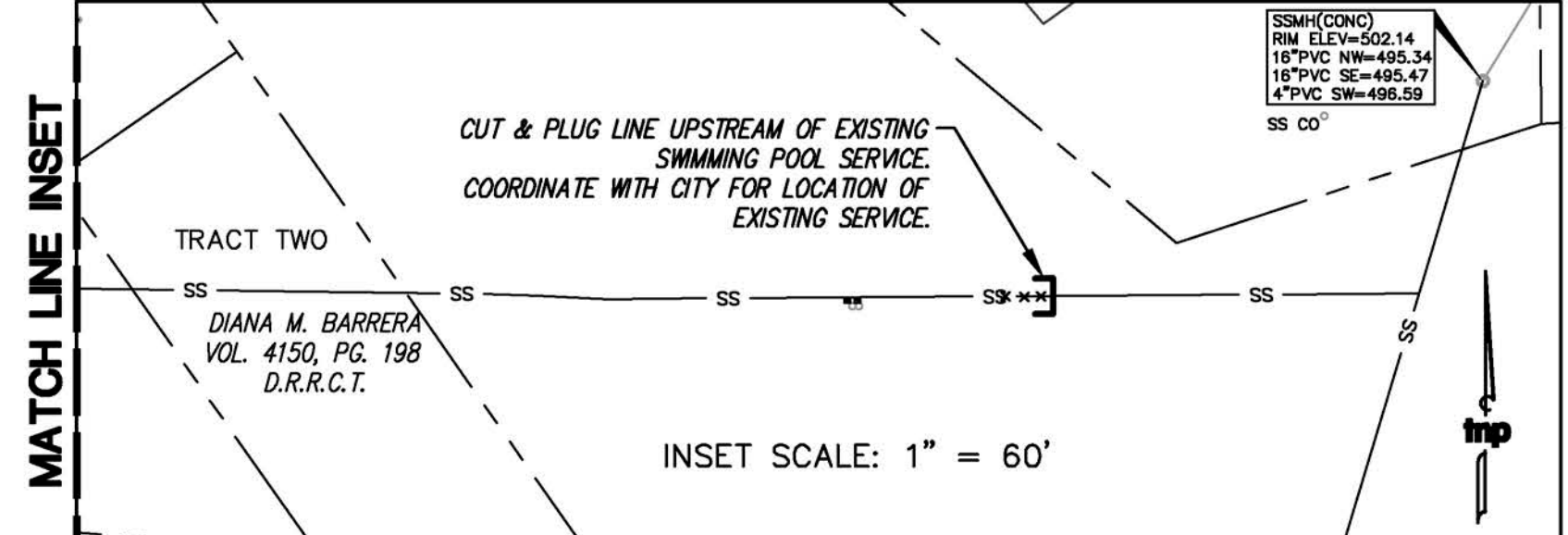
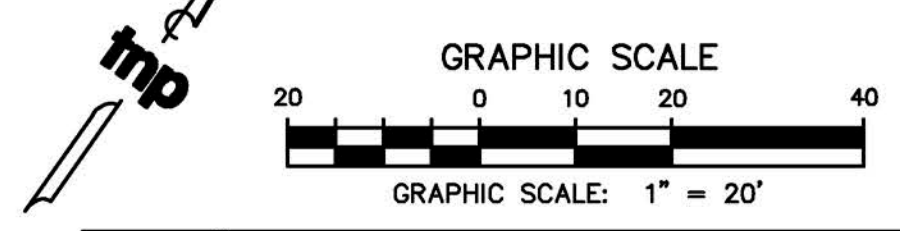


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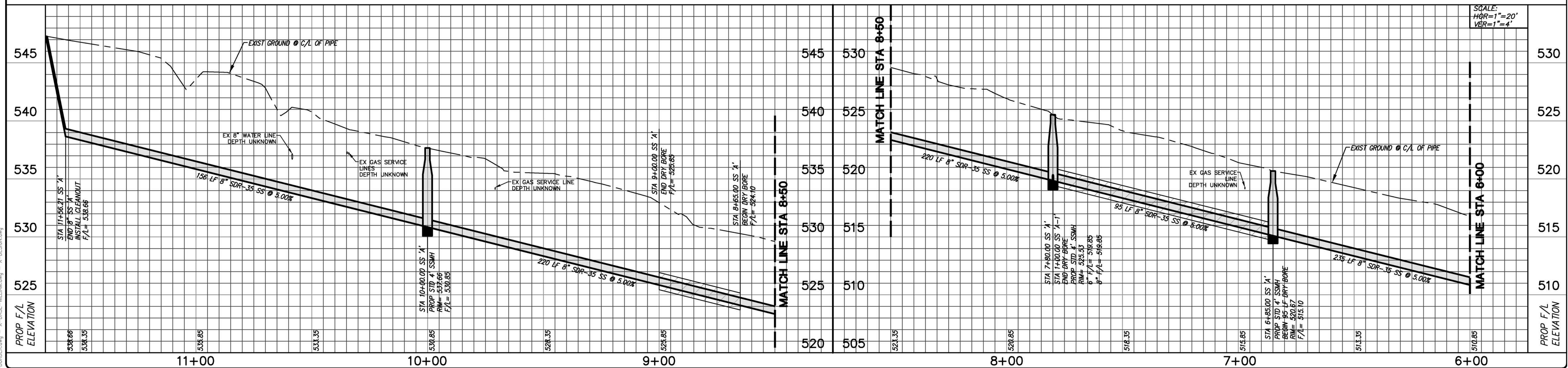
LEGEND

- PROP SAN SEWER LINE
- PROPOSED SERVICE LINE
- PROPOSED SS MANHOLE
- PROPOSED CLEANOUT
- PROPOSED BORE
- PROPOSED EASEMENT
- EXISTING SANITARY SEWER
- ABANDON EX SS LINE
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING R.O.W.
- EXISTING CONCRETE
- EXISTING SS MANHOLE
- EXISTING SS CLEANOUT
- EXISTING GATE VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING SPRINKLER HEAD
- EXISTING GAS METER
- EXISTING ROAD SIGN
- IRON ROD FOUND
- PROPOSED TREE REMOVAL

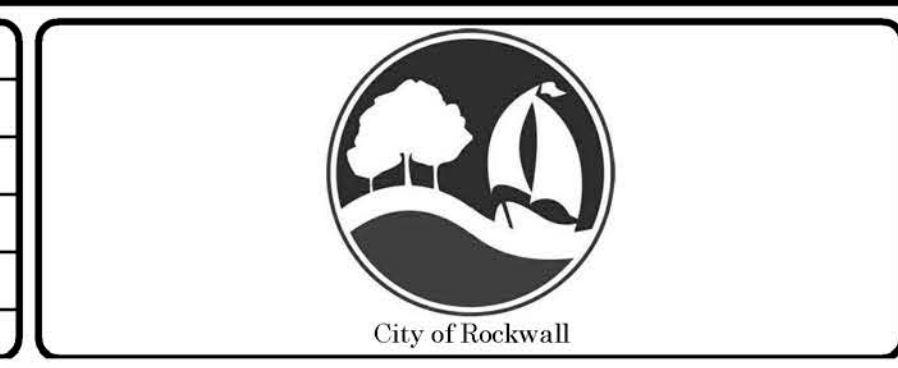


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SANITARY SEWER LINE 'A'



no.	revision	by	date



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1" = 20'
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1" = 4'
date
JAN 2014








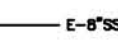
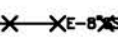













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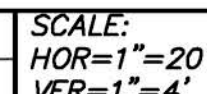
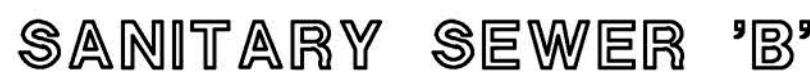
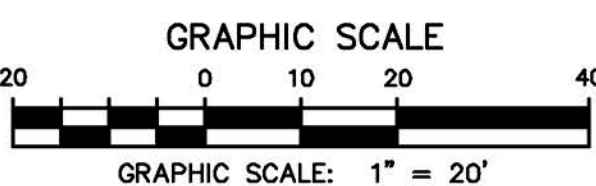
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City of Rockwall, Texas
Central Water and Sewer Improvements for
Williams Street 8" Sanitary Sewer
Sanitary Sewer 'A' Plan and Profile
Sta 6+00 to End

tnp project
RWL13076
sheet
13

	PROP SAN SEWER LINE
	PROPOSED SERVICE LINE
	PROPOSED SS MANHOLE
	PROPOSED CLEANOUT
	PROPOSED BORE
	PROPOSED EASEMENT
	EXISTING SANITARY SEWER
	ABANDON EX SS LINE
	EXISTING WATER LINE
	EXISTING STORM DRAIN
	EXISTING R.O.W.
	EXISTING CONCRETE
	EXISTING SS MANHOLE
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	EXISTING GAS METER
	EXISTING ROAD SIGN
	IRON ROD FOUND
	PROPOSED TREE REMOVAL



City of Rockwall



tnp

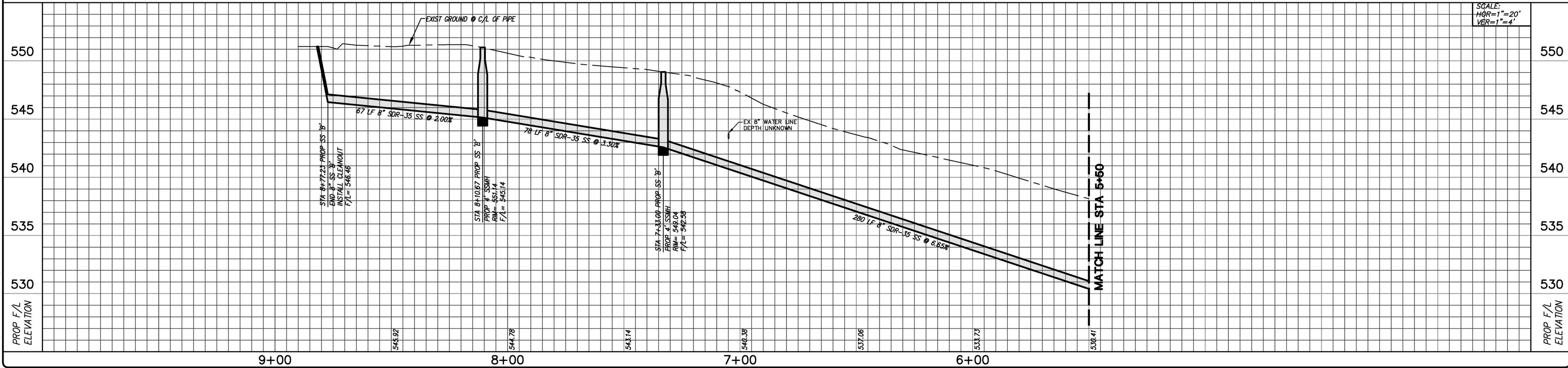
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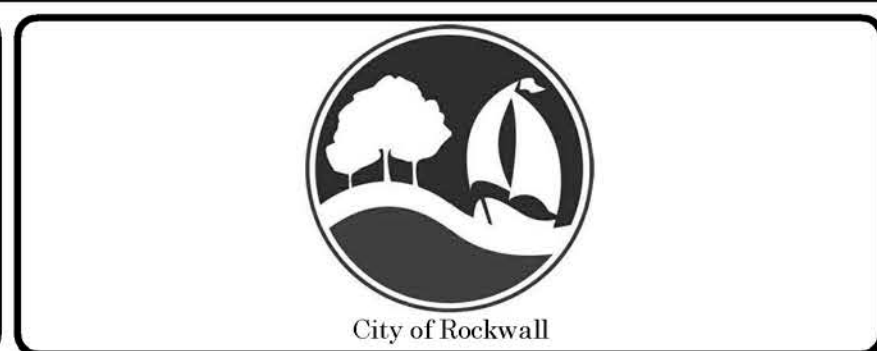
City of Rockwall, Texas
Central Water and Sewer Improvements for
Williams Street 8" Sanitary Sewer
Sanitary Sewer 'B' - Sta 1+00 to Sta 5+50
8" Water Line - Sta 2+22 to End

tnp project
RWL13076
sheet
14

Drawing: Q:\Projects\RW13076\CA0\Streets\Williams SAN SEWER.dwg at Nov 19, 2019 - 4:50pm by kiris
Layout: Mkt-SSB-2 Xrefs: X-BORDER.dwg - X-BASE-MILLUM.dwg - X-DESIGN.dwg



no.	revision	by	date



scale
horiz
1" = 20'
vert
1" = 4'
date
JAN 2014

tnp

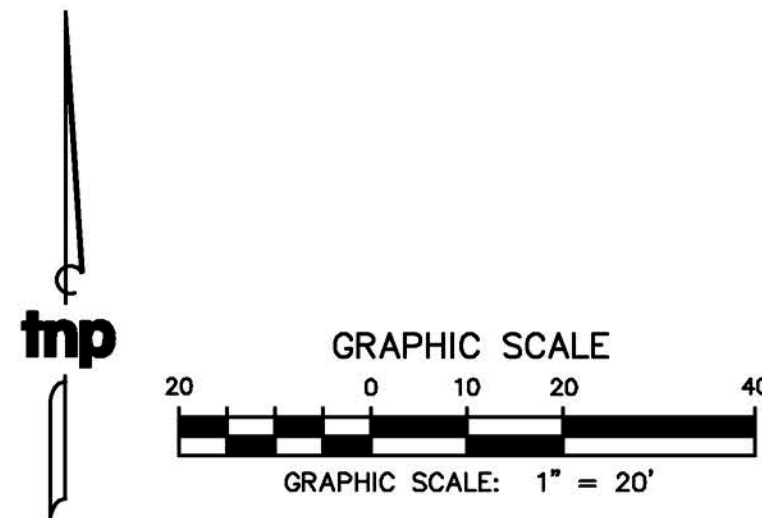
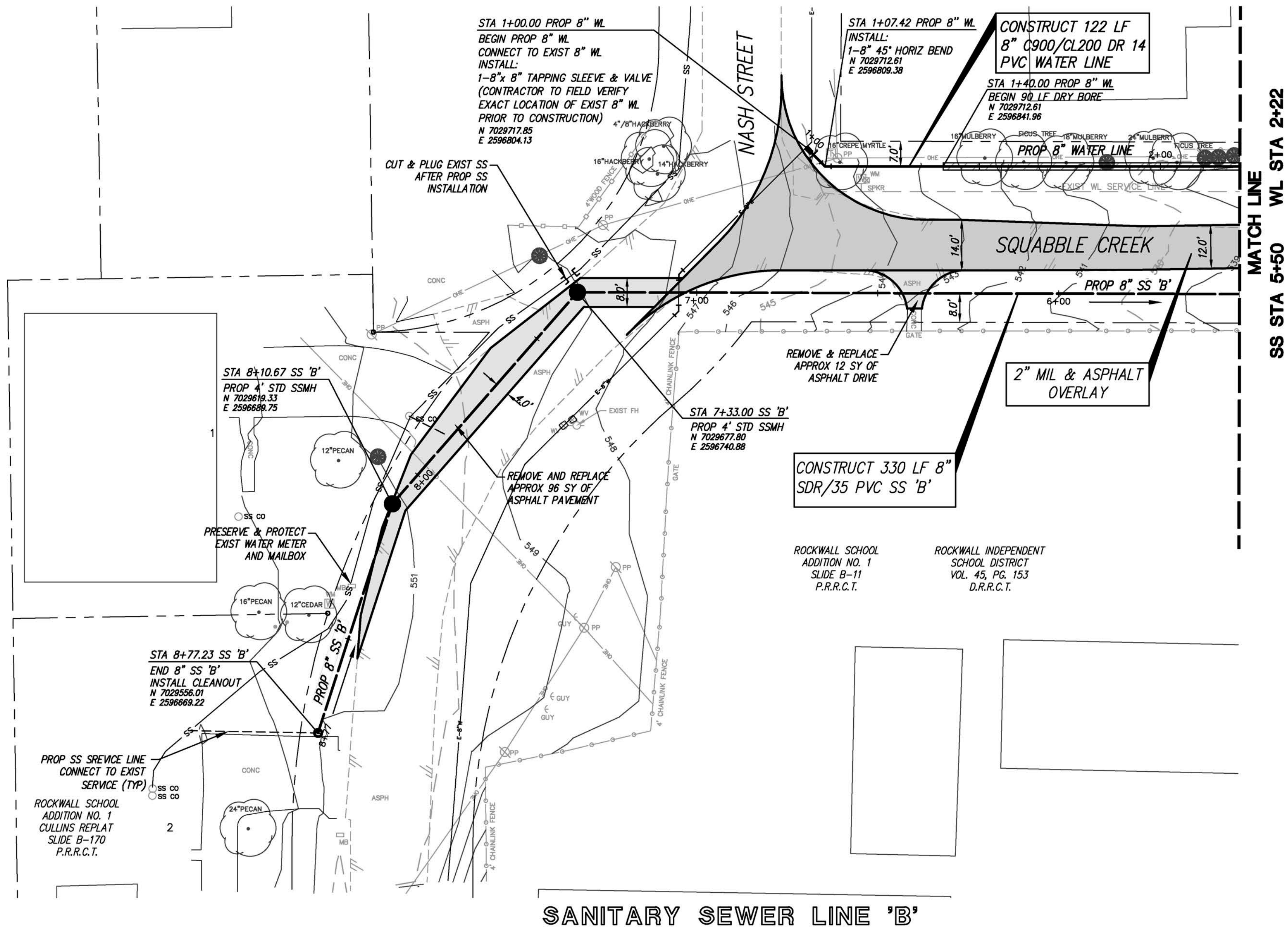
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Williams Street 8" Sanitary Sewer
Sanitary Sewer 'B' - Sta 5+50 to End
8" Water Line - Sta 1+00 to Sta 2+22

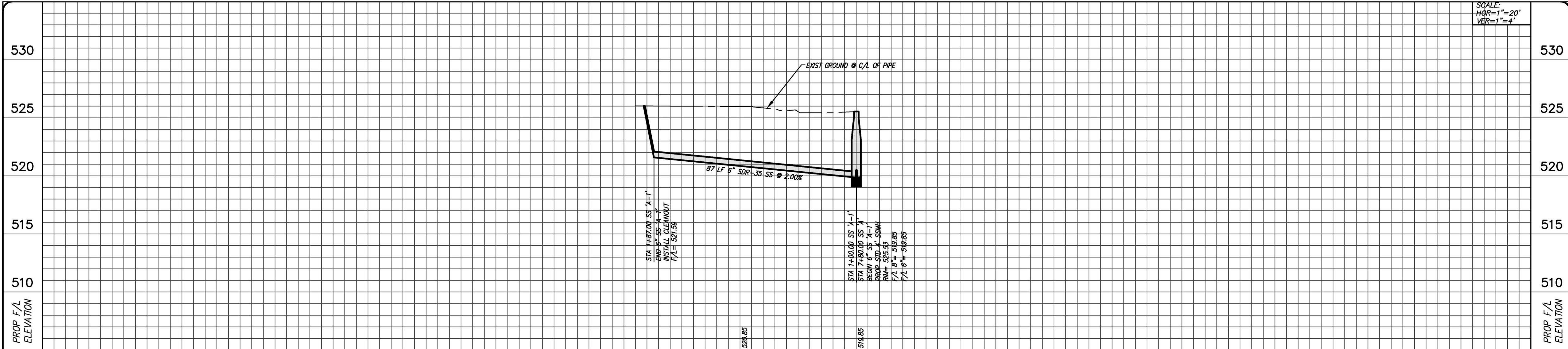
tnp project
RW13076
sheet
15



CAUTION!!
EXISTING UTILITIES

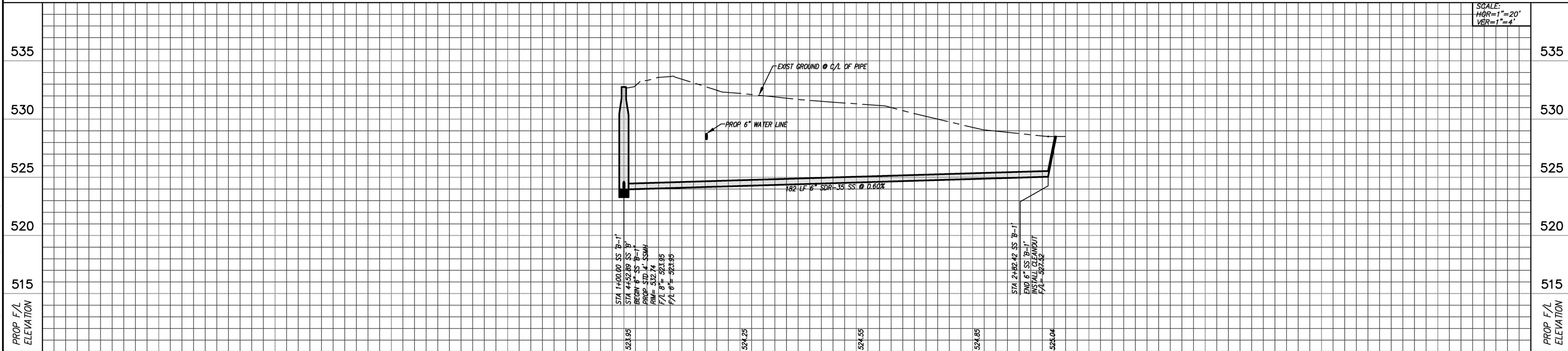
THE UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

Drawing: Q:\Projects\RWL13076\CA0\Sheets\WILLIAMS SAN SEWER.dwg at Nov 19, 2019 - 4:50pm by krios
Layout: WIL-SSA1-B2 PROF Xrefs: X-BORDER.dwg - X-BASE-WILLIAM.dwg - X-DESIGN.dwg



SANITARY SEWER LINE 'A-1'

SANITARY SEWER LINE 'B-1'



no.	revision	by	date



scale
horiz
1" = 20'
vert
1" = 4'
date
JAN 2014



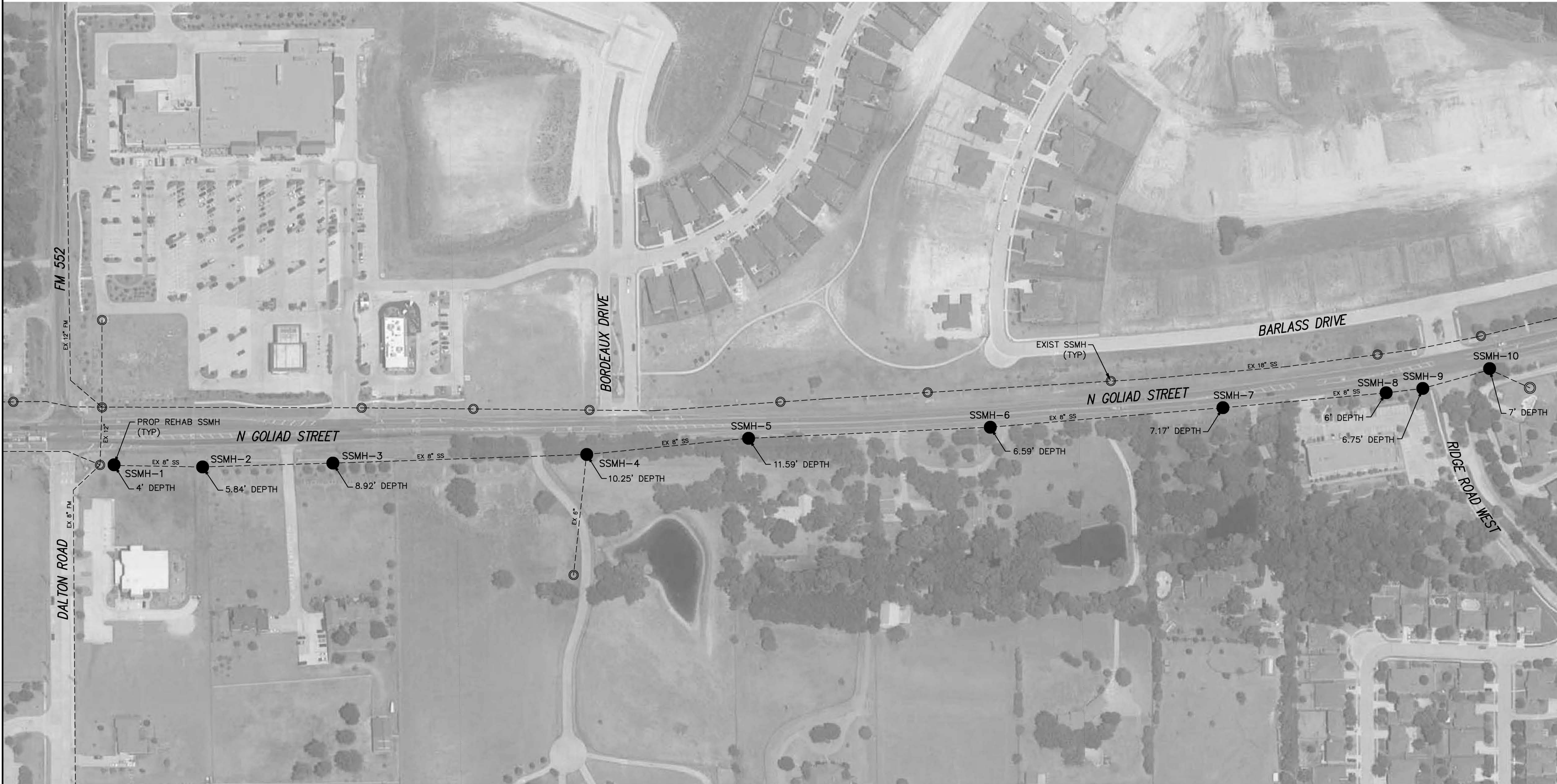
teague nall & perkins
17304 Preston Road, Suite 1340
Dallas, Texas 75252
214.461.9867 ph 214.461.9864 fx
TBPE Registration No. F-230
www.tnpinc.com

RECORD DOCUMENTS

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City of Rockwall, Texas
Central Water and Sewer Improvements for
Williams Street 8" Sanitary Sewer
Sanitary Sewer 'A-1' and 'B-1'
Profiles

tnp project
RWL13076
sheet
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NOTE:
MANHOLE DEPTHS PROVIDED FROM: "MANHOLE/LIFE STATION REPORT"
PROVIDED BY ACME UTILITY INSPECTION SERVICES, INC.
JUNE 15, 2011

LEGEND

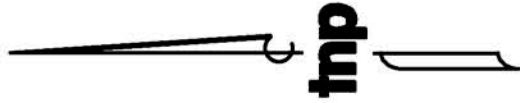
●

PROP REHAB SS MANHOLE

○

EXIST SS MANHOLE

EXIST SANITARY SEWER LINE



no.	revision	by	date



scale
horiz
N/A
vert
N/A
date
JAN 2014



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City of Rockwall, Texas
Central Water and Sewer Improvements for
**N. GOLIAD ST. MANHOLE REHABILITATION
OVERALL SITE PLAN**

tnp project
RWL13076
sheet
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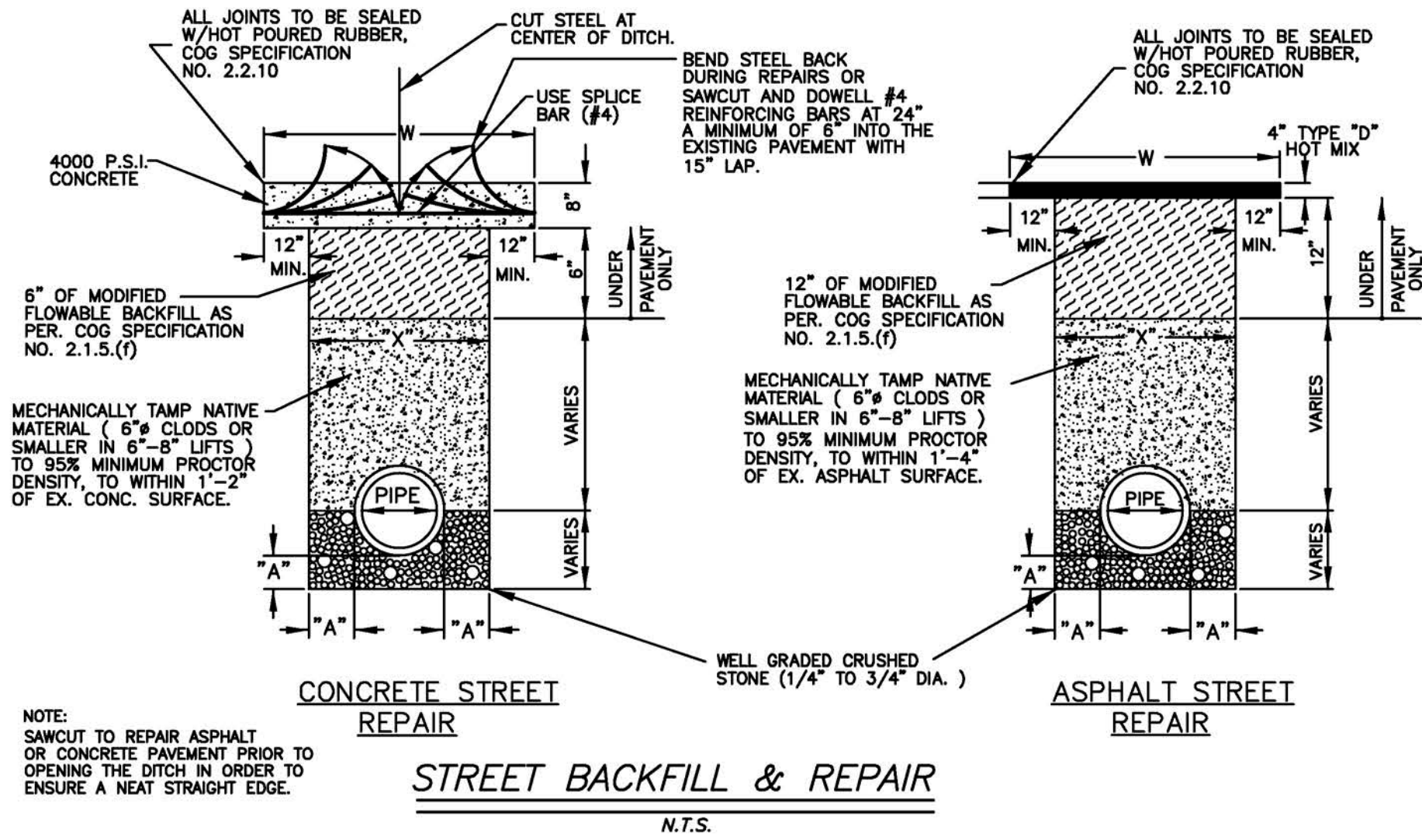
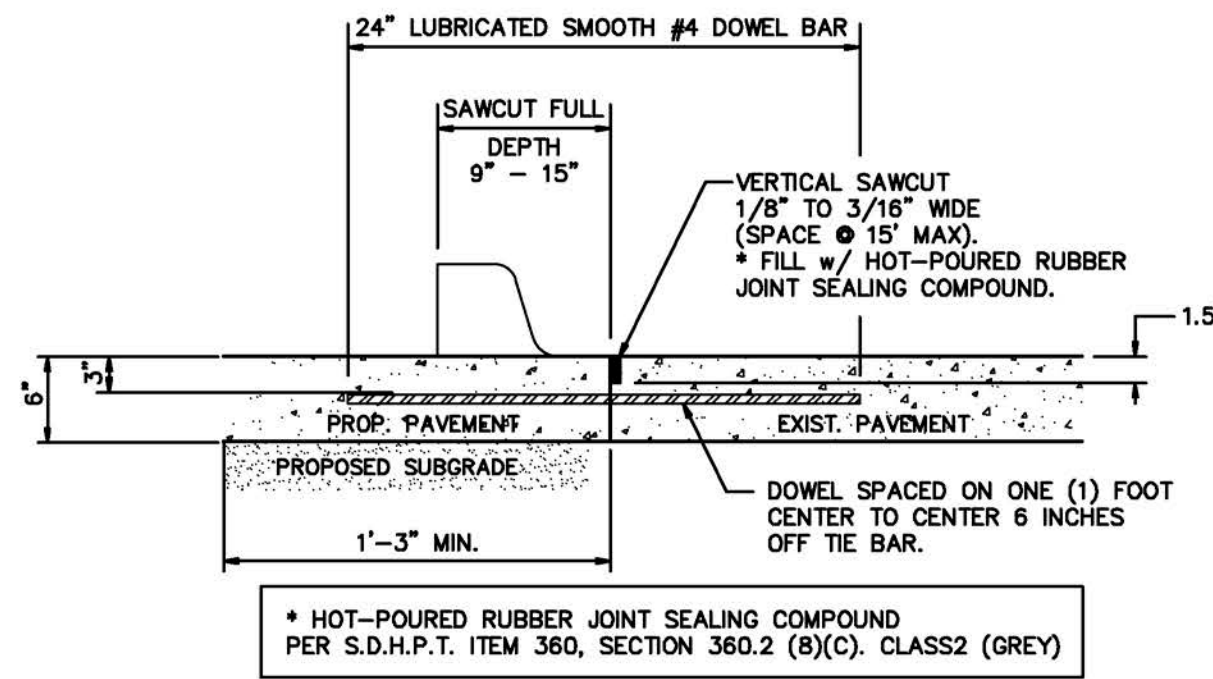
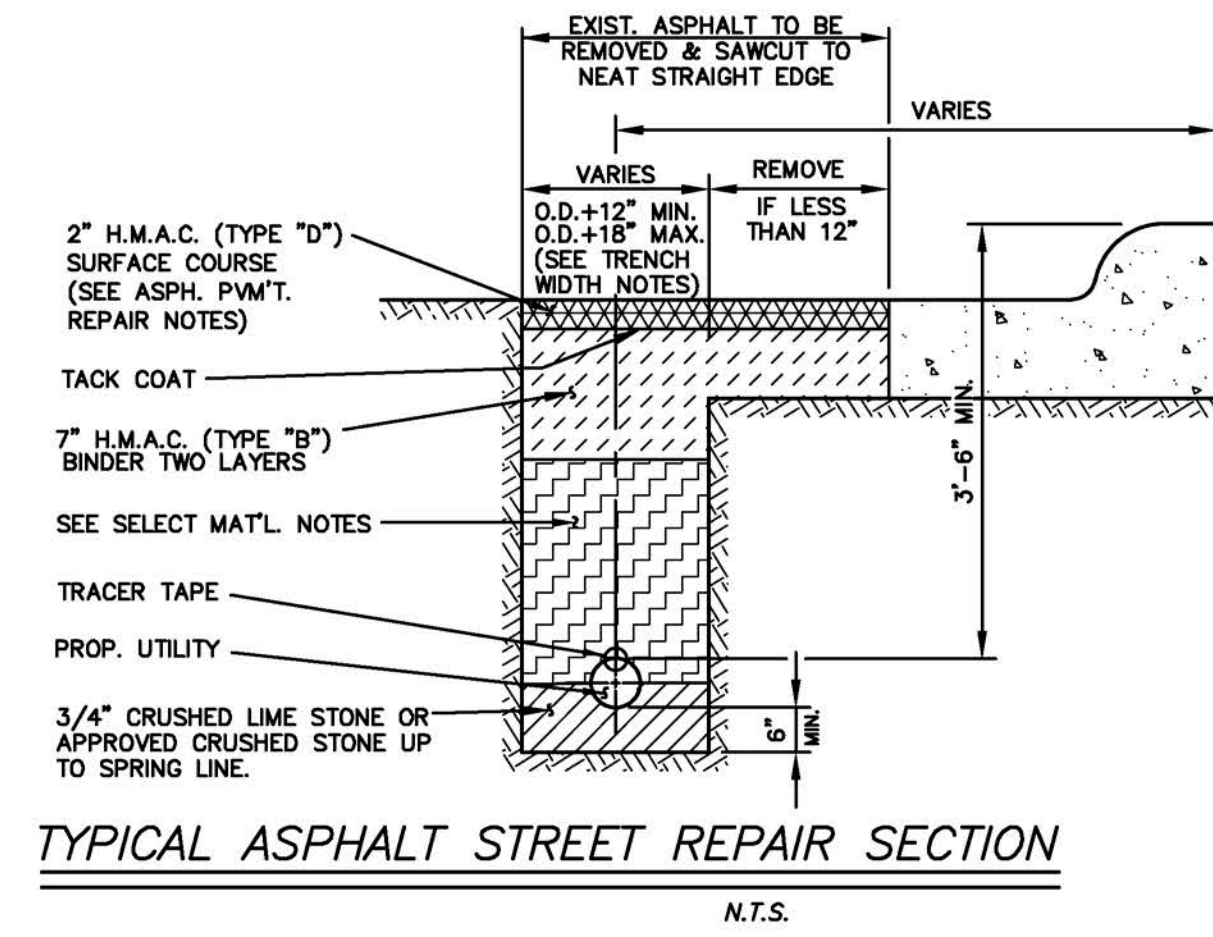


TABLE OF DIMENSIONS FOR WIDTH OF TRENCH AND PAVEMENT REPLACEMENT

NORMAL SIZE OF PIPE IN INCHES	O.D. OF PIPE BELL IN INCHES CLASS III R.C.P.	MINIMUM TRENCH WALL CLEARANCE "A" IN INCHES	WIDTH OF TRENCH ("X")		WIDTH OF P.V.M.T. REPLACEMENT *
			MAXIMUM ** IN INCHES	MINIMUM ** IN INCHES	("W") CONC. & ASPHALT **
18	22.5	6	48	36	60
24	29.0	6	48	42	60
30	35.5	6	52	48	72
36	42.5	6	61	55	72
42	49.75	6	68	62	86
48	56.5	8	75	69	93
54	63.25	8	82	76	100
60	70.5	8	89	83	107
66	77.5	8	96	90	114
72	84.5	8	103	97	121
72+	VARIES	8	*	*	*

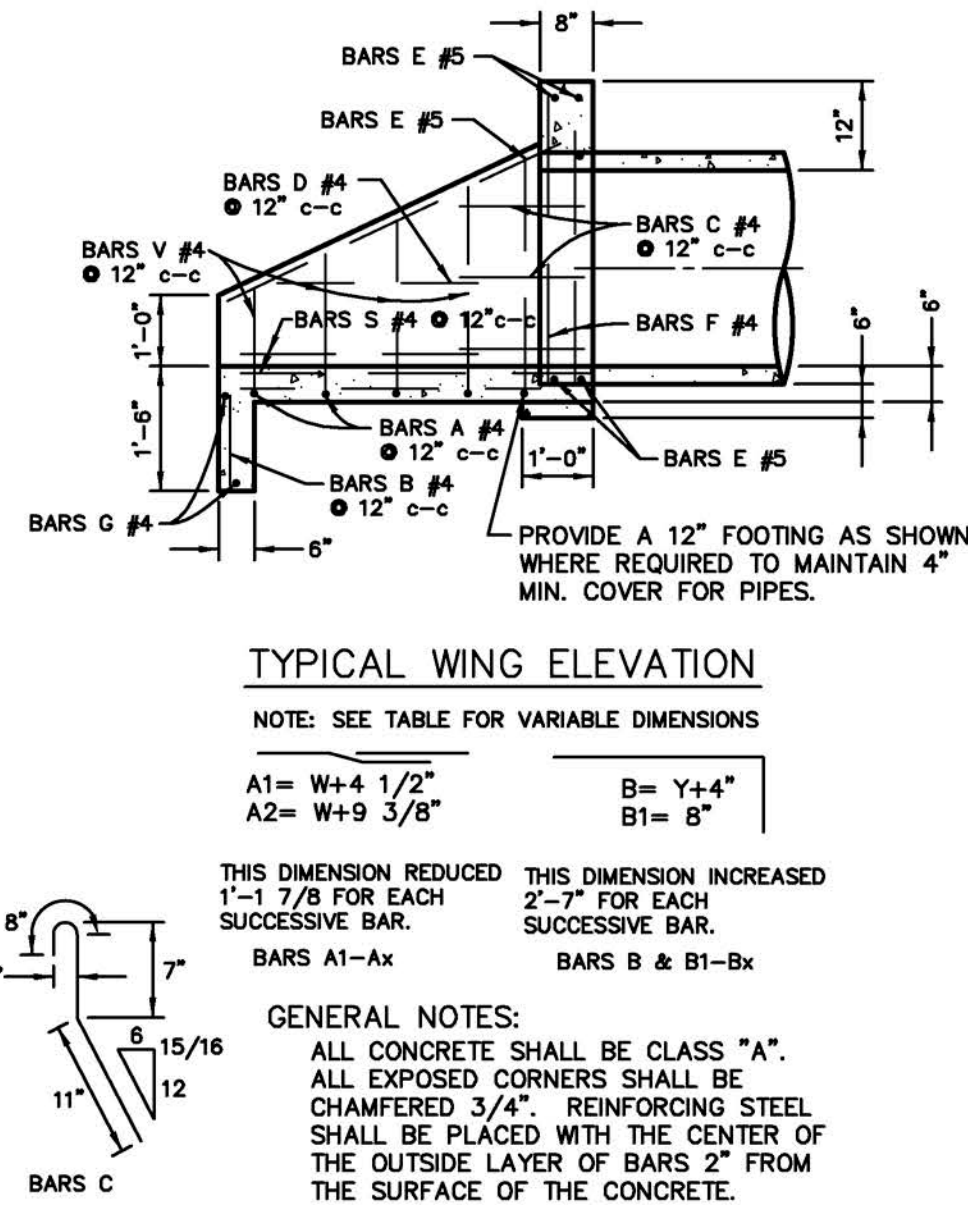
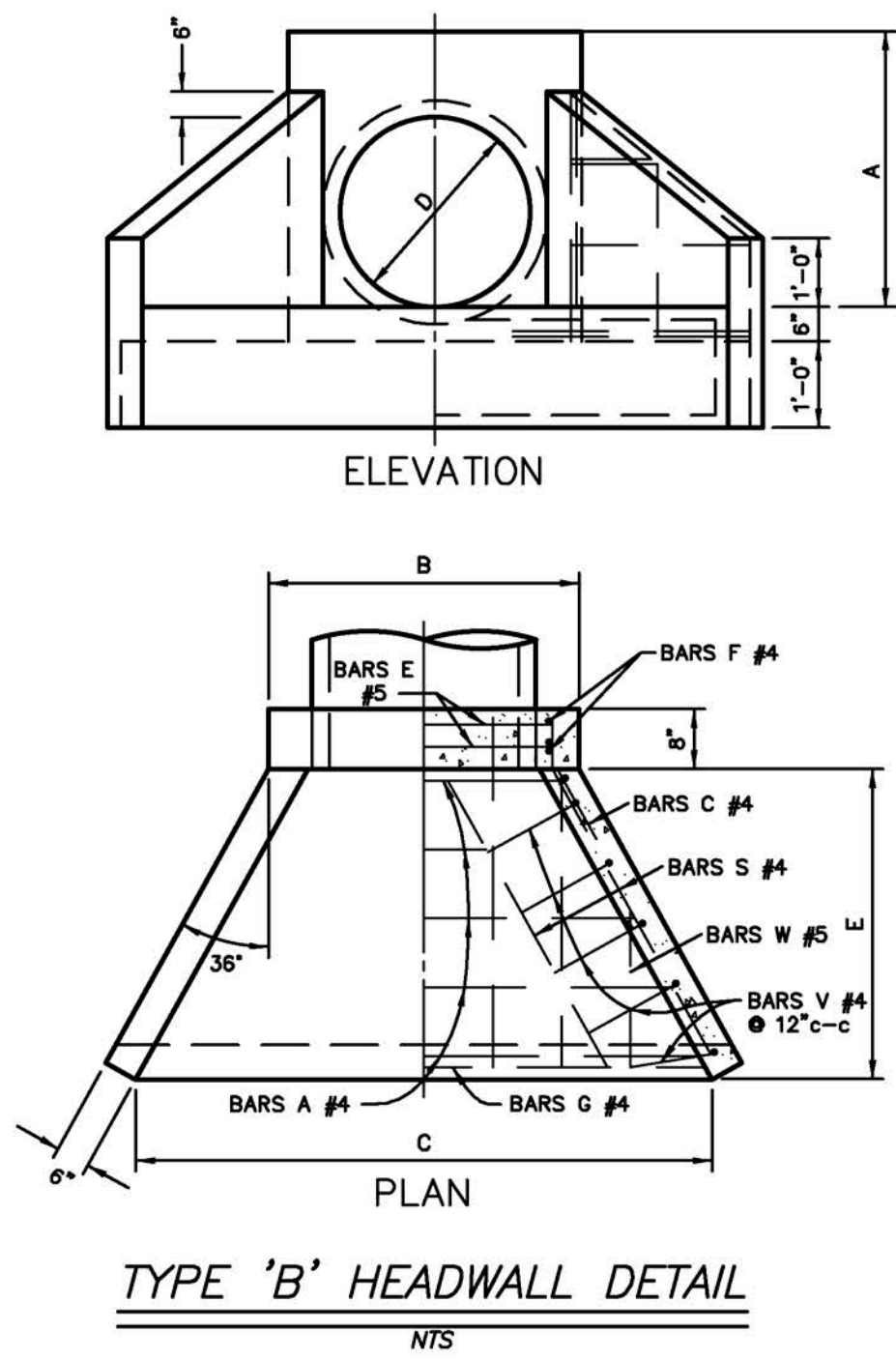
NOTE: * REFER TO THE PLANS FOR SPECIFIED WIDTH OF REPLACEMENT.
** RECOMMENDED WIDTHS - VARIES BASED ON DEPTH AND SOIL MATERIAL.



TO BE USED WHERE PROPOSED CONCRETE PAVEMENT MEETS EXISTING CONCRETE PAVEMENT

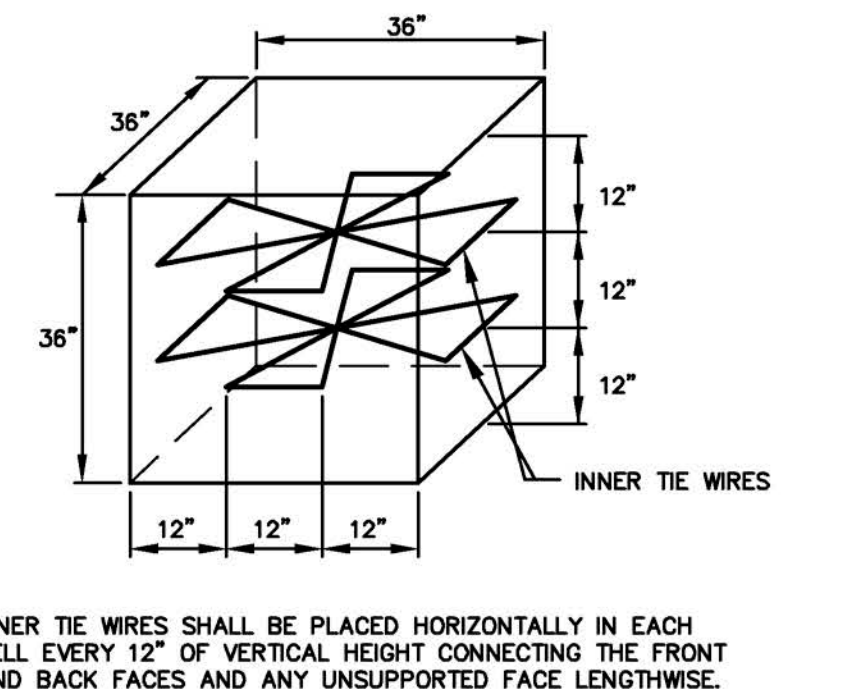
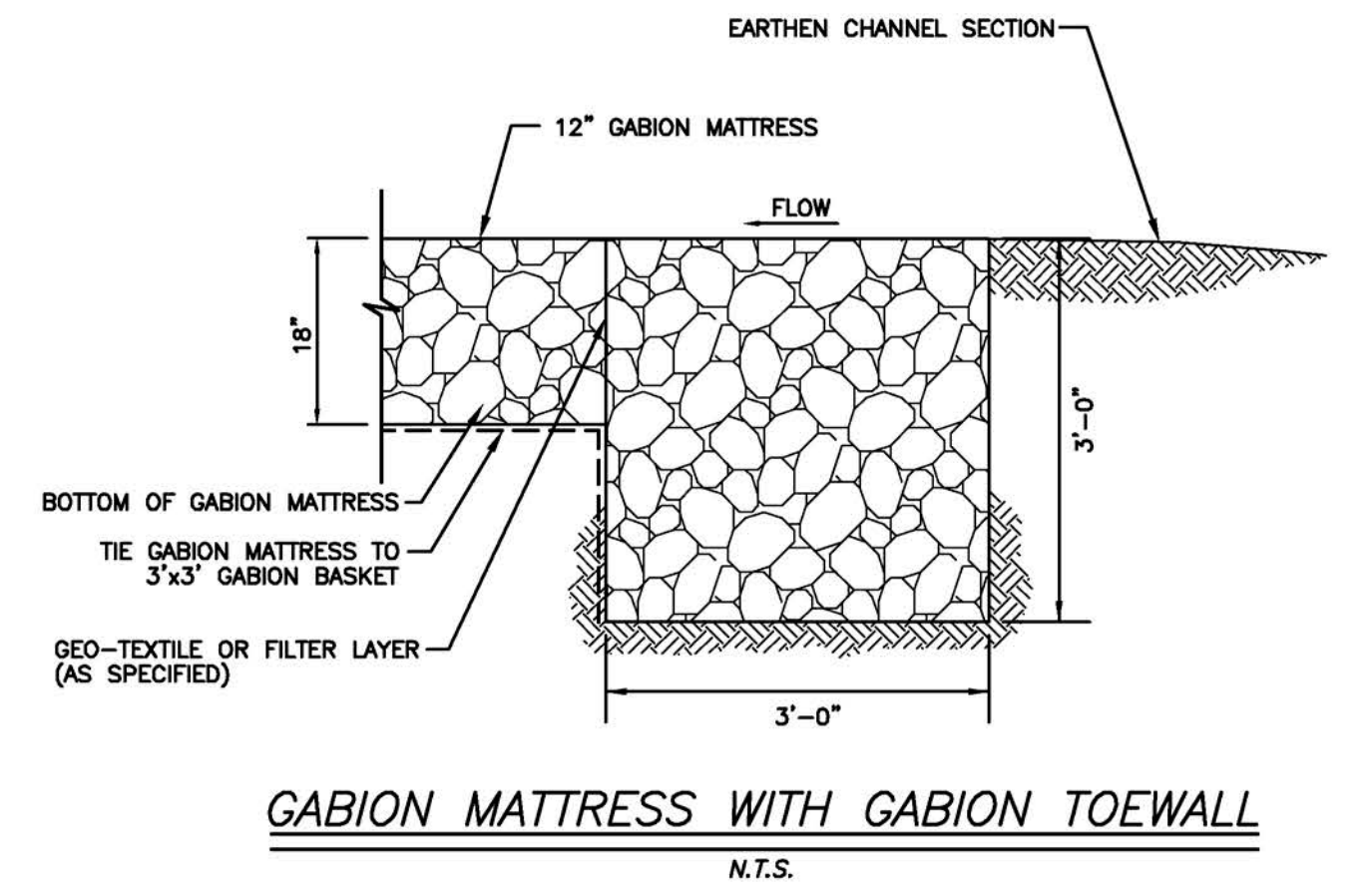
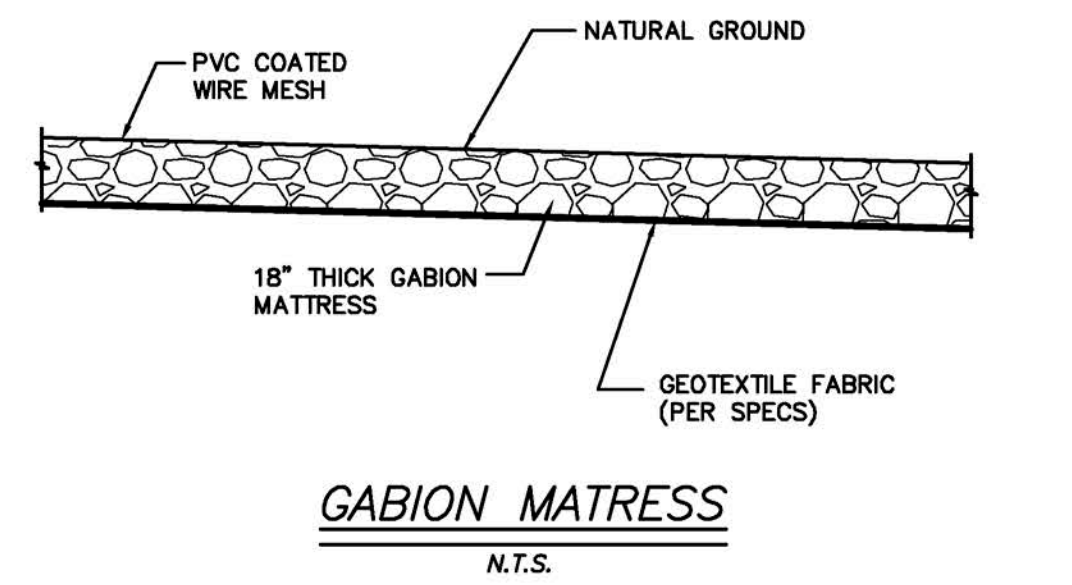
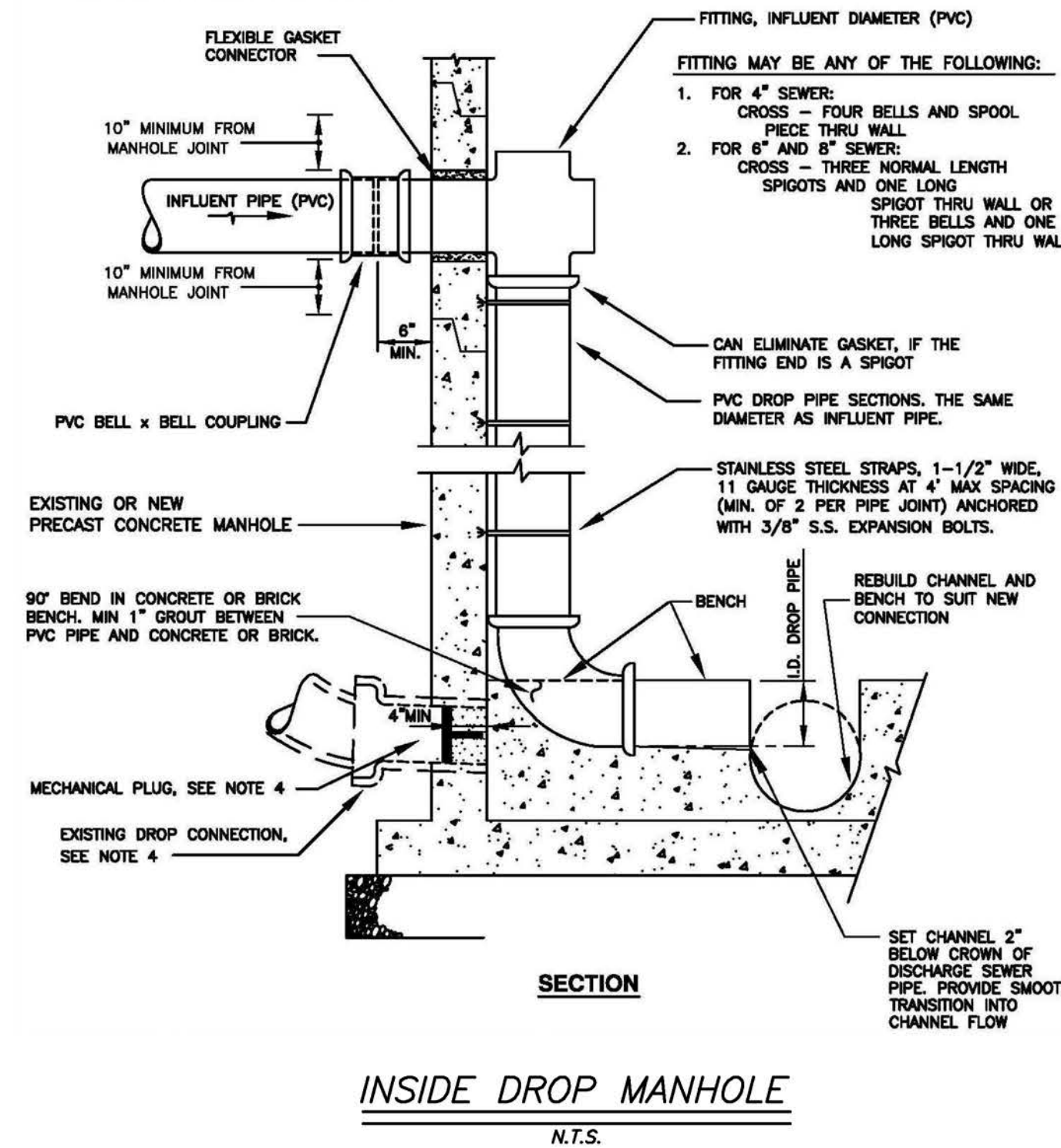
- NOTES:**
- NO. 4 SMOOTH DOWEL BAR MAY BE USED IN 5", 6" AND 7" PAVEMENT THICKNESS.
 - LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
 - DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
 - DRILLING BY HAND IS NOT APPLICABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

LONGITUDINAL CONSTRUCTION BUTT JOINT
N.T.S.

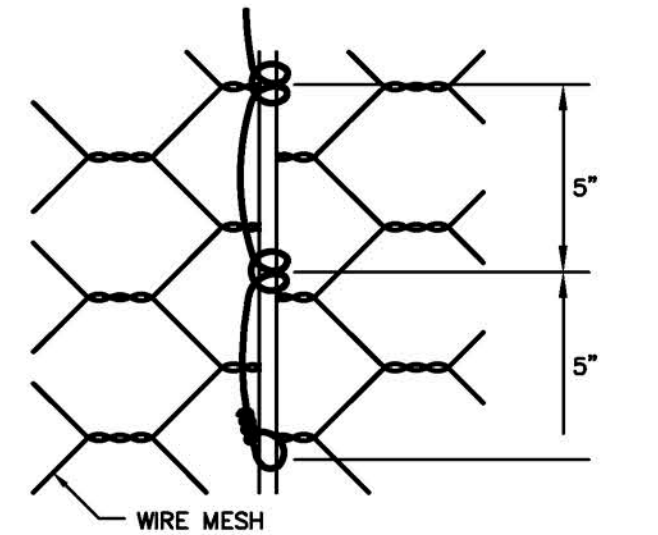


HEADWALL SIZE	A	B	C	D	E
12"	2'-6"	2'-11"	4'-0 7/8"	18"	2'-0"
18"	2'-6"	2'-11"	4'-0 7/8"	18"	2'-0"
24"	3'-0"	3'-6"	5'-9 3/4"	24"	3'-0"
30"	3'-6"	4'-1"	7'-6 5/8"	30"	4'-0"
36"	4'-0"	4'-8"	9'-3 1/2"	36"	5'-0"
39"	4'-3"	5'-0"	10'-2"	39"	5'-8"
42"	4'-6"	5'-3"	11'-0 1/4"	42"	6'-0"
48"	5'-3"	5'-10"	12'-9 1/8"	48"	7'-0"
54"	5'-9"	6'-5"	14'-6"	54"	8'-0"
64"	6'-5"	7'-0"	16'-2 7/8"	64"	9'-0"
66"	6'-9"	7'-7"	17'-11 3/4"	66"	10'-0"
72"	7'-3"	8'-2"	19'-8 5/8"	72"	11'-0"

- NOTES:**
- THIS DETAIL MAY BE USED IN LIEU OF DETAIL 5/3.14 ONLY FOR CONNECTIONS TO PRECAST MANHOLES.
 - ONLY ONE INSIDE DROP CONNECTION PER MANHOLE WILL BE ALLOWED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - THE DROP FITTING SHALL NOT EXTEND INTO THE AREA THAT IS DEFINED BY THE PROJECTION OF THE MANHOLE ENTRANCE VERTICALLY DOWN TO THE MANHOLE BOTTOM. IF NECESSARY, MANHOLE FRAME, COVER, CONE SECTION, AND STEPS SHALL BE REMOVED AND PLACED TO ALLOW FOR UNOBSTRUCTED ENTRY AND EXIT.
 - WHEN INSIDE DROP CONNECTION REPLACES EXISTING OUTSIDE DROP, PROVIDE MECHANICAL PLUG AND FILL ANNULAR SPACE WITH NON-SHRINK GROUT SIMILAR TO DETAIL 5/3.5.
 - INFLUENT PIPE SLOPE SHALL NOT EXCEED 5%.
 - MAXIMUM SIZE OF INFLUENT PIPE IS 8".
 - SEE NOTES (1) THRU (9) ON DETAIL 5/1.0



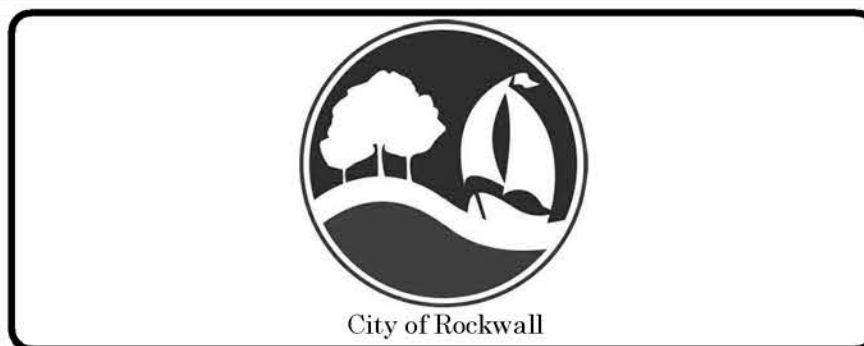
GABION WIRE INSTALLATION METHOD
N.T.S.



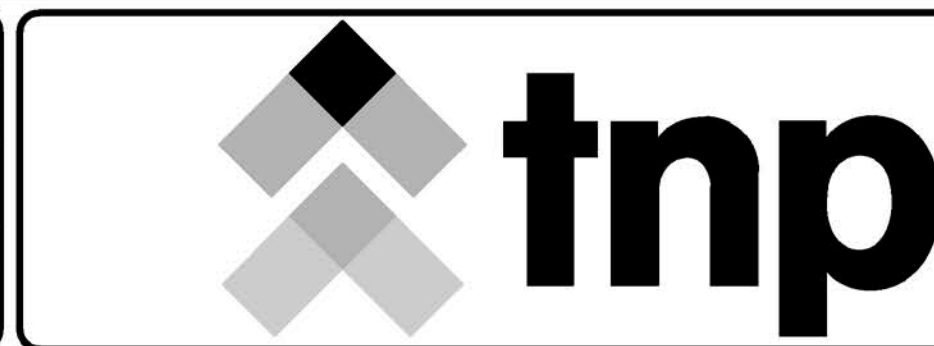
- GABIONS MUST BE TIED IN THIS MANNER AT EACH STEP OF CONSTRUCTION:
- INITIAL ASSEMBLY
 - TYING TO ADJACENT GABIONS ALONG ALL CONTACTING EDGES
 - TYING OF LID TO SIDES
 - TYING OF LID TO ALL DIAPHRAGMS
 - RE-TYING OF THE CUT GABION

GABION TYING METHOD
N.T.S.

no.	revision	by	date



scale
horiz
N/A
vert
N/A
date
JAN 2014



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City of Rockwall, Texas	
Central Water and Sewer Improvements for	
DETAILS	

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