

CITY OF ROCKWALL PLANS FOR ROCKWALL COUNTY JAIL DOWNSTREAM WASTEWATER MAIN IMPROVEMENTS



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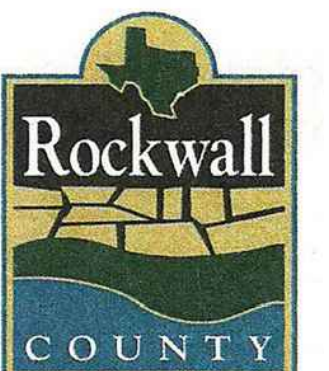
- D1 CITY OF ROCKWALL STANDARD EROSION CONTROL DETAILS
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Developer:

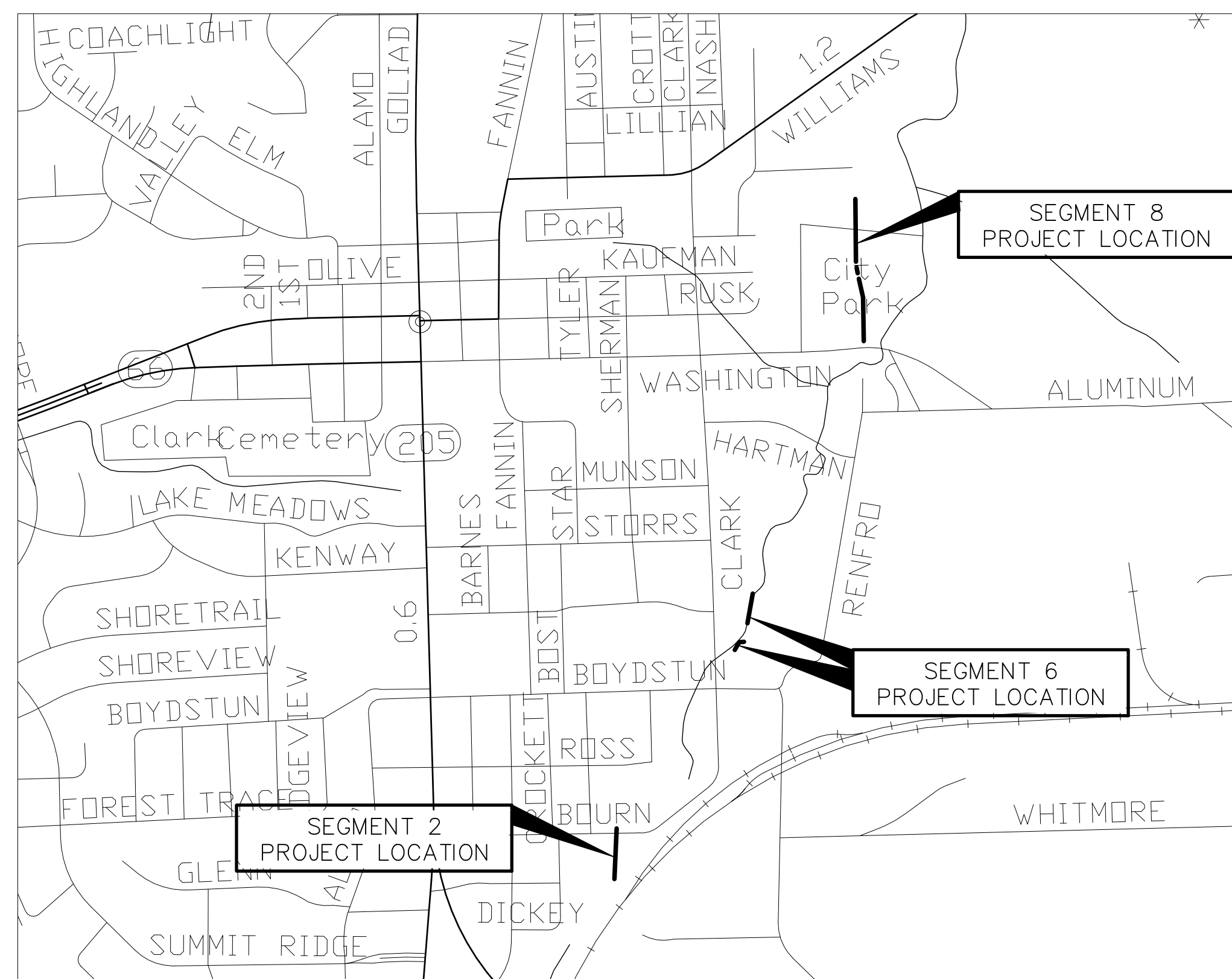
ROCKWALL COUNTY
COMMISSIONER DENNIS BAILEY, PRECINCT 3
101 E. RUSK STREET, SUITE 202
ROCKWALL, TX 75087



Engineer

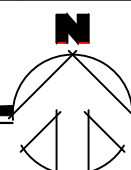
Kimley»Horn

Texas Board of Professional Engineers Firm Registration Number: F-928
13455 Noel Road Two Galleria Office Tower, Suite 700, Dallas, TX 75240 972-770-1300



LOCATION MAP

NOT TO SCALE



FEBRUARY 2021

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.
DATE: 7/28/2022 BY: *[Signature]*

**RECORD
DRAWINGS**

GENERAL ITEMS

- 1. All construction shall conform to the requirements set forth in the City of Rockwall's Engineering Department's "Standards of Design and Construction" and the "Standard Specifications for Public Works Construction" by the North Texas Central Council of Governments, 5th edition amended by the City of Rockwall. The CONTRACTOR shall reference the latest City of Rockwall standard details provided in the Rockwall Engineering Departments "Standards of Design and Construction" manual for details not provided in these plans. The CONTRACTOR shall possess one set of the NCTCOG Standard Specifications and Details and the City of Rockwall's "Standards of Design and Construction" manual on the project site at all times.
2. Where any conflicting notes, details or specifications occur in the plans the City of Rockwall General Construction Notes, Standards, Details and Specifications shall govern unless detail or specification is more strict.
3. The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: http://www.rockwall.com/engr.asp
4. All communication between the City and the CONTRACTOR shall be through the Engineering Construction Inspector and City Engineer or designated representative only. It is the responsibility of the CONTRACTOR to contact the appropriate department for inspections that do not fall under this approved engineering plan set.
5. Prior to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.
6. The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if items are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".
7. All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
8. All site dimensions are referenced to the face of curb or edge of pavement unless otherwise noted.
9. The City requires ten (10%) percent-two (2) year maintenance bond for paving, paving improvements, water systems, wastewater systems, storm sewer systems including detention systems, and associated fixtures and structures which are located within the right-of-ways or defined easements. The two (2) year maintenance bond is to state "from date of City acceptance" as the starting time.
10. A review of the site shall be conducted at twenty (20) months into the two (2) year maintenance period. The design engineer or their designated representative and the CONTRACTOR shall be present to walk the site with the City of Rockwall Engineering Inspection personnel.

EROSION CONTROL & VEGETATION

- 1. The CONTRACTOR or developer shall be responsible, as the entity exercising operational control, for all permitting as required by the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ). This includes, but is not limited to, preparation of the Storm Water Pollution Prevention Plan (SWPPP), the Construction Site Notice (CSN), the Notice of Intent (NOI), the Notice of Termination (NOT) and any Notice of Change (NOC) and is required to pay all associated fees
2. Erosion control devices as shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
3. All erosion control devices are to be installed in accordance with the approved plans, specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project. Erosion control devices shall be placed and in working order prior to start of construction. Changes are to be reviewed and approved by the design engineer and the City of Rockwall prior to implementation.
4. If the Erosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP) as approved cannot appropriately control erosion and off-site sedimentation from the project, the erosion control plan and/or the SWPPP is required to be revised and any changes reported to the Texas Commission on Environmental Quality (TCEQ), when applicable.
5. All erosion control devices shall be inspected weekly by the CONTRACTOR and after all major rain events, or more frequently as dictated in the project Storm Water Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of inspection's reports to the engineering inspection after each inspection.
6. The CONTRACTOR shall not dispose of waste and any materials into streams, waterways or floodplains. The CONTRACTOR shall secure all excavation at the end of each day and dispose of all excess materials.
7. CONTRACTOR shall take all available precautions to control dust. CONTRACTOR shall control dust by sprinkling water or other means as approved by the City Engineer.
8. CONTRACTOR shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" (not winter rye or weeds) shall consist of 75% to 80% coverage of all disturbed areas and a minimum of one-inch (1") in height as determined by the City. No bare spots will be allowed. Re-seeding will be required in all washed areas and areas that don't grow.
9. All City right-of-ways shall be sodded if disturbed. No artificial grass is allowed in any City right-of-way and/or easements.
10. All adjacent streets/alleys shall be kept clean at all times
11. CONTRACTOR shall keep construction site clean at all times, immediately contain all debris and trash, all debris and trash shall be removed at the end of each work day, and all vegetation on the construction site 10-inches or taller in height must be cut immediately.
12. Suspension of all construction activities for the project will be enforced by the City if any erosion control requirements are not met. Work may commence after deficiency has been rectified.
13. During construction of the project, all soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The CONTRACTOR is responsible for the temporary protection and permanent stabilization of all soil stockpiles on-site as well as borrow areas and soil intentionally transported from the project site.
14. Where construction vehicles access routes intersect paved or public roads/alleys, construction entrances shall be installed to minimize the transport of sediment by vehicular tracking onto paved surfaces. Where sediment is transferred onto paved or public surfaces, the surface shall be immediately cleaned. Sediment shall be

removed from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement washing shall be allowed only after sediment is removed in this manner.
15. All drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be immediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of cleaning.
16. During all dewatering operations, water shall be pumped into an approved filtering device prior to discharge into a receiving outlet.

TRAFFIC CONTROL

- 1. All new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval a minimum of 21 calendar days prior to planned day of implementation.
2. When the normal function of the roadway is suspended through closure of any portion of the right-of-way, temporary construction work zone traffic control devices shall be installed to effectively guide the motoring public through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow is an integral element of every traffic control zone.
3. All traffic control plans shall be prepared and submitted to the Engineering Department in accordance with the standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur on roadways without an approval from the Rockwall Engineering Department and an approved traffic control plan. Traffic control plans shall be required on all roadways as determined by the City Engineer or the designated representative.
4. All traffic control plans must be prepared, signed, and sealed by an individual that is licensed as a professional engineer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted for review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.
5. The CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks prior to any the closures in writing and verbally.
6. Any deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated representative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a verbal warning and be required to correct the problem immediately. If the deviation is not corrected, all construction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.
7. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time at the end of the workday, all temporary traffic control devices that are no longer appropriate shall be removed or covered. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure.
8. Lane closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am and 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during peak hours of 7:00 am - 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual start-finish times of the actual school with approval by the City Engineer. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure of a roadway whether they are working or not.
9. No traffic signs shall be taken down without permission from the City.
10. No street/roadway will be allowed to be fully closed.

UTILITY LINE LOCATES

- 1. It is the CONTRACTOR's responsibility to notify utility companies to arrange for utility locates at least 48 hours prior to beginning construction. The completeness and accuracy of the utility data shown on the plans is not guaranteed by the design engineer or the City. The CONTRACTOR is responsible for verifying the depth and location of existing underground utilities proper to excavating, trenching, or drilling and shall be required to take any precautionary measures to protect all lines shown and .or any other underground utilities not on record or not shown on the plans.
2. The CONTRACTOR shall be responsible for damages to utilities
3. CONTRACTOR shall adjust all City of Rockwall utilities to the final grades.
4. All utilities shall be placed underground.
5. CONTRACTOR shall be responsible for the protection of all existing main lines and service lines crossed or exposed by construction operations. Where existing mains or service lines are cut, broken or damaged, the CONTRACTOR shall immediately make repairs to or replace the entire service line with same type of original construction or better. The City of Rockwall can and will intervene to restore service if deemed necessary and charge the CONTRACTOR for labor, equipment, material and loss of water if repairs aren't made in a timely manner by the CONTRACTOR.
6. The City of Rockwall (City utilities) is not part of the Dig Tess or Texas one Call - 811 - line locate system. All City of Rockwall utility line locates are to be scheduled with the City of Rockwall Service Center. 972-771-7730. A 48-hour advance notice is required for all non-emergency line locates.
7. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
a. No more than 500 linear feet of trench may be opened at one time.
b. Material used for backfilling trenches shall be properly compacted to 95% standard density in order to minimize erosion, settlement, and promote stabilization that the geotechnical engineer recommends.
c. Applicable safety regulations shall be complied with.
11. This plan details pipes up to 5 feet from the building. Refer to the building plans for building connections. CONTRACTOR shall supply and install pipe adapters as necessary.
12. All underground lines shall be installed, inspected, and approved prior to backfilling.
13. All concrete encasement shall have a minimum of 28 days compressive strength at 3,000 psi (min. 5.5 sack mix).

WATER LINE NOTES

- 1. The CONTRACTOR shall maintain existing water service at all times during construction.
2. Proposed water lines shall be AWWA C900-16 PVC Pipe (blue in color) for all sizes, DR 14 (PC 305) for pipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch and larger water pipelines unless otherwise shown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 feet for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.
3. Proposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's engineering standards of design and construction manual.
4. CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering Inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the date of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Water shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR is required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well as any costs incurred when the loss of fire protection to a structure occurs.
5. CONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves (both existing and proposed).
6. All fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal Service Center.
7. Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed water line and every 250'.
8. All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.
9. All fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.
10. Abandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned in place shall have any extensions and the valve box removed and shall be capped in concrete.
11. All fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited to parking spaces and landscaping.
12. All joints are to be megalug joints with thrust blocking.
13. Water and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.
14. CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.
15. All domestic and irrigation services are required to have a testable backflow device with a double check valve installed per the City of Rockwall regulations at the property line and shown on plans.

WASTEWATER LINE NOTES

- 1. The CONTRACTOR shall maintain existing wastewater service at all times during construction.
2. Wastewater line for 4-inch through 15-inch shall be Green PVC - SDR 35 (ASTM D3034) [less 10 ft cover] and SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and larger wastewater line shall be Green PVC - PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services will be allowed on a sanitary sewer line deeper than 10 feet.
3. Proposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's public works standard design and construction manual.
4. Green EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed wastewater lines.
5. CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals are accounted for and transferred to proposed wastewater lines prior to abandonment.
6. All abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.
7. Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades.
8. All wastewater pipes and public services shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20th) month of the maintenance period.
9. All manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform to the measures called out in standard detail R-5031.
10. All new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy coating, ConShield, or approved equal. Conshield must have terracotta color dye mixed in the precast and cast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab manhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal.
11. All new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim and cover to prevent inflow.
12. If an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypassing pump plan shall be required and submitted to the Engineering Construction Inspector and City Engineer for approval prior to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise Ordinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
13. CONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.

"RECORD DRAWING" THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240. DATE: 7/28/2022 BY: [Signature]

GENERAL CONSTRUCTION NOTES Sheet 1 of 2 October 2020 CITY OF ROCKWALL ENGINEERING DEPARTMENT 385 S. Goliad Rockwall, Texas 75087 P (972) 771-7746 F (972) 771-7748

Kimley-Horn logo and revision table with columns for No., Revision, By, and Date.

ROCKWALL COUNTY JAIL DOWNSTREAM WASTEWATER MAIN IMPROVEMENTS

CITY OF ROCKWALL GENERAL NOTES

DATE: 2/11/2021 DESIGN: JAS DRAWN: RHJ CHECKED: MSP KHA NO.: 064474704 SHEET



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DEMOLITION, REMOVAL, DISPOSAL AND EXCAVATION NOTES

1. All pavements to be removed and replaced shall be saw cut to full depth along neat squared lines shown in the plans.
2. Proposed concrete pavement shall be constructed with longitudinal butt construction joints at all connections to existing concrete pavement.
3. All public concrete pavement to be removed and replaced shall be full panel replacement, 1-inch thicker and on top of 6-inch thick compacted flexbase.
4. No excess excavated material shall be deposited in low areas or along natural drainage ways without written permission from the affected property owner and the City of Rockwall. No excess excavation shall be deposited in the City Limits without a permit from the City of Rockwall. If the CONTRACTOR places excess materials in these areas without written permission, the CONTRACTOR will be responsible for all damages resulting from such fill and shall remove the material at their own cost.

PAVING AND GRADING

1. All detention systems are to be installed and verified for design compliance along with the associated storm sewer and outflow structures, prior to the start of any paving operations (including building foundations). Erosion protection shall be placed at the pond outflow structures, silt fence along the perimeter of the pond along with any of the associated erosion BMPs noted on the erosion control plan, and the sides and bottom of the detention system shall have either sod or anchored seeded curlex installed prior to any concrete placement.
2. All paving roadway, driveways, fire lanes, drive-isles, parking, dumpster pads, etc. sections shall have a minimum thickness, strength, reinforcement, joint type, joint spacing and subgrade treatment shall at a minimum conform to the City standards of Design and Construction and table below.

Street/Pavement Type	Minimum Thickness (inches)	Strength 28-Day (psi)	Minimum Cement (sacks / CY)		Steel Reinforcement	
			Machine placed	Hand Placed	Bar #	Spacing (O.C.E.W.)
Arterial	10"	3,600	6.0	6.5	#4 bars	18"
Collector	8"	3,600	6.0	6.5	#4 bars	18"
Residential	6"	3,600	6.0	6.5	#3 bars	24"
Alley	7"-5"-7"	3,600	6.0	6.5	#3 bars	24"
Fire Lane	6"	3,600	6.0	6.5	#3 bars	24"
Driveways	6"	3,600	6.0	6.5	#3 bars	24"
Barrier Free Ramps	6"	3,600	N/A	6.5	#3 bars	24"
Sidewalks	4"	3,000	N/A	5.5	#3 bars	24"
Parking Lot/Drive Aisles	5"	3,000	5.0	5.5	#3 bars	24"
Dumpster Pads	7"	3,600	6.0	6.5	#3 bars	24"

3. Reinforcing steel shall be tied (100%). Reinforcing steel shall be set on plastic chairs. Bar laps shall be minimum 30 diameters. Sawed transverse dummy joints shall be spaced every 15 feet or 1.25 time longitudinal butt joint spacing whichever is less. Sawing shall occur within 5 to 12 hours after the pour, including sealing. Otherwise, the section shall be removed and longitudinal butt joint constructed.
4. No sand shall be allowed under any paving.
5. All concrete mix design shall be submitted to the City for review and approval prior to placement.
6. Fly ash may be used in concrete pavement locations provided that the maximum cement reduction does not exceed 20% by weight per C.Y. of concrete. The fly ash replacement shall be 1.25 lbs. per 1.0 lb. cement reduction.
7. All curb and gutter shall be integral (monolithic) with the pavement.
8. All fill shall be compacted by sheep's foot roller to a minimum 95% standard proctor. Maximum loose lift for compaction shall be 8 inches. All lifts shall be tested for density by an independent laboratory. All laboratory compaction reports shall be submitted to the City Engineering Construction Inspector once results are received. All reports will be required prior to final acceptance.
9. All concrete compression tests and soil compaction/density tests are required to be submitted to the City's Engineering Inspector immediately upon results.
10. All proposed sidewalks shall include barrier free ramps at intersecting streets, alleys, etc. Barrier free ramps (truncated dome plate in Colonial or brick red color) shall meet current City and ADA requirements and be approved by the Texas Department of Licensing and Regulation (TDLR).
11. All public sidewalks shall be doveled into pavement where it abuts curbs and driveways. Expansion joint material shall be used at these locations.
12. All connection of proposed concrete pavement to existing concrete pavement shall include a longitudinal butt joint as the load transfer device. All longitudinal butt joints shall be clean, straight and smooth (not jagged in appearance)
13. Cracks formed in concrete pavement shall be repaired or removed by the CONTRACTOR at the City's discretion. CONTRACTOR shall replace existing concrete curbs, sidewalk, paving, a gutters as indicated on the plans and as necessary to connect to the existing infrastructure, including any damage caused by the CONTRACTOR.
14. All residential lots will require individual grading plans submitted during the building permit process that correspond with the engineered grading and drainage area plans.
15. Approval of this plan is not an authorization to grade adjacent properties when the plans or field conditions warrant off-site grading. Written permission must be obtained and signed from the affected property owner(s) and temporary construction easements may be required. The written permission shall be provided to the City as verification of approval by the adjacent property owner(s). Violation of this requirement will result in suspension of all work at the job site until issue has been rectified.
16. All cut or fill slopes of non-paved areas shall be a maximum of 4:1 and minimum of 1%.
17. CONTRACTOR agrees to repair any damage to property and the public right-of-way in accordance with the City Standards of Design and Construction.
18. CONTRACTOR shall protect all monuments, iron pins/rods, and property corners during construction.
19. CONTRACTOR shall ensure positive drainage so that runoff will drain by gravity flow to new or existing drainage inlets or sheet flow per these approved plans.

DRAINAGE / STORM SEWER NOTES

1. The CONTRACTOR shall maintain drainage at all times during construction. Ponding of water in streets, drives, trenches, etc. will not be allowed. Existing drainage ways shall not be blocked or removed unless explicitly stated in the plans or written approval is given by the City.
2. All structural concrete shall be 4200 psi compressive strength at 28 days minimum 7.0 sack mix, air entrained, unless noted otherwise. Fly ash shall not be allowed in any structural concrete.
3. Proposed storm sewer embedment shall be NCTCOG Class 'B' as amended by the City of Rockwall's Engineering Department Standards of Design and Construction Manual.
4. All public storm pipe shall be a minimum of 18-inch reinforced concrete pipe (RCP), Class III, unless otherwise noted.
5. All storm pipe entering structures shall be grouted to assure connection at the structure is watertight.
6. All storm structures shall have a smooth uniform poured mortar invert from invert in to invert out.
7. All storm sewer manholes in paved areas shall be flush with the paving grade, and shall have traffic bearing ring and covers.
8. All storm sewer pipes and laterals shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20th) month of the maintenance period.


RETAINING WALLS

1. All retaining walls, regardless of height, will be reviewed and approved by the City Engineering Department
2. All retaining walls (including foundation stem walls), regardless of height, will be constructed of rock/stone/brick or rock/stone/brick faced. No smooth concrete walls are allowed. Wall materials shall be the same for all walls on the project.
3. All portions, including footings, tie-backs, and drainage backfill, of the wall shall be on-site and not encroach into any public easements or right-of-way. The entire wall shall be in one lot and shall not be installed along a lot line.
4. All walls 3 feet and taller will be designed and signed/sealed by a registered professional engineer in the State of Texas. The wall design engineer is required to inspect the wall construction and supply a signed/sealed letter of wall construction compliance to the City of Rockwall along with wall as-builts prior to City Engineering acceptance.
5. No walls are allowed in detention easements. A variance to allow retaining walls in a detention easement will require approval by the Planning and Zoning Commission with appeals being heard by the City Council.

FINAL ACCEPTANCE AND RECORD DRAWINGS/AS-BUILTS

1. Final Acceptance shall occur when all the items on the Checklist for Final Acceptance have been completed and signed-off by the City. An example of the checklist for final acceptance has been included in the Appendix of the Standards of Design and Construction. Items on the checklist for final acceptance will vary per project and additional items not shown on the check list may be required.
2. After improvements have been constructed, the developer shall be responsible for providing to the City "As Built" or "Record Drawings". The Design Engineer shall furnish all digital files of the project formatted in Auto Cad 14, or 2000 format or newer and Adobe Acrobat (.pdf) format with a CD-ROM disk or flash drive. The disk or drive shall include a full set of plans along with any landscaping, wall plans, and details sheets.
3. Submit 1-set of printed drawings of the "Record Drawings" containing copies of all sheets to the Engineering Construction Inspector for the project. The printed sheets will be reviewed by the inspector PRIOR to producing the "Record Drawing" digital files on disk or flash drive. This will allow any revisions to be addressed prior to producing the digital files.
4. Record Drawing Disk drawings shall have the Design Engineers seal, signature and must be stamped and dated as "Record Drawings" or "As Built Drawings" on all sheets.
5. The City of Rockwall will not accept any Record Drawing disk drawings which include a disclaimer. A disclaimer shall not directly or indirectly state or indicate that the design engineer or the design engineer's surveyor/surveyors did not verify grades after construction, or that the Record Drawings were based solely on information provided by the construction contractor/contractors. Any Record Drawings which include like or similar disclaimer verbiage will not be accepted by the City of Rockwall.
6. Example of Acceptable Disclaimer: "To the best of our knowledge ABC Engineering, Inc., hereby states that this plan is As-Built. This information provided is based on surveying at the site and information provided by the contractor."

"RECORD DRAWING"
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DATE: 7/28/2022 BY: *[Signature]*



GENERAL CONSTRUCTION NOTES
Sheet 2 of 2
October 2020

**CITY OF ROCKWALL
ENGINEERING DEPARTMENT**

385 S. Goliad P (972) 771-7746
Rockwall, Texas 75087 F (972) 771-7748

K:\DAL_Municipal\064474704 - Rockwall County Jail WW8_Design\DWG\Sheets\General_Notes.dwg

Kimley»Horn

13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 (972) 771-1300

No.	Revision	By	Date

**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

**CITY OF ROCKWALL
GENERAL NOTES**

DATE: 2/11/2021	DESIGN: JAS	DRAWN: RHJ	CHECKED: MSP
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GENERAL NOTES

- CONTRACTOR SHALL PROTECT ALL UNDERGROUND IRRIGATION SYSTEMS (KNOWN AND UNKNOWN). ALL DAMAGE SHALL BE REPAIRED BY IRRIGATOR LICENSED IN THE STATE OF TEXAS.
- THE PROPOSED WASTEWATER LINES, AT TIMES, WILL BE LAID CLOSE TO OTHER EXISTING UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW GROUND. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF ALL UTILITY POLES, TELEPHONE AND FIBER OPTIC CABLES, WASTEWATER LINES, WATER LINES, DRAINAGE PIPES, AND ALL OTHER UTILITIES AND STRUCTURES BOTH ABOVE AND BELOW GROUND DURING CONSTRUCTION. THE CONTRACTOR IS LIABLE FOR ALL DAMAGES DONE TO SUCH EXISTING FACILITIES AS A RESULT OF THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, EMISSIONS, TRENCHING, SHORING, AND SITE SAFETY.
- THE CONTRACTOR SHALL NOTIFY RESIDENTS 48 HOURS IN ADVANCE OF PERFORMING ANY WORK ON PRIVATE PROPERTY.
- SPOILS, EMBEDMENT, BACKFILL AND ALL OTHER MATERIALS (EXCLUDING PIPE) WILL NOT BE PERMITTED TO BE STOCKPILED IN THE FLOODPLAIN. ALL MATERIAL STOCKPILE LOCATIONS TO BE APPROVED BY THE CITY PRIOR TO CONSTRUCTION AND IN ADVANCE OF PLACEMENT. ALL EXCAVATED MATERIAL SHALL BE STORED IN A WAY THAT MAINTAINS POSITIVE DRAINAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL EXCESS EXCAVATION. THE CONTRACTOR SHALL SUBMIT A "STOCKPILE PLAN" THAT SHOULD DESIGNATE LOCATIONS FOR TEMPORARY STORAGE OF THE EXCAVATED SOIL. THIS STOCKPILE PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK.
- AT PROJECT COMPLETION, THE CONTRACTOR SHALL CLEAN UP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION AS GOOD OR BETTER THAN THAT WHICH EXISTED PRIOR TO INSTALLATION OF THE WASTEWATER LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING THE FINISHED GRADE ELEVATIONS TO THE SAME ELEVATIONS THAT EXISTED PRIOR TO INSTALLATION OR TO THOSE SHOWN ON THE PLANS. A FINAL INSPECTION AND APPROVAL BY THE CITY'S ON-SITE REPRESENTATIVE SHALL BE SECURED BEFORE THE CONTRACTOR MAY LEAVE THE JOB SITE.
- THE CONTRACTOR(S) ON THE PROJECT SHALL PROMPTLY RESTORE ANY DAMAGES THAT MAY OCCUR TO THE PROPERTIES, WHICH RESTORATION SHALL BE TO AT LEAST THE SAME CONDITION THAT THE PROPERTIES WERE IN PRIOR TO THE DAMAGES AND SUBJECT TO OWNER'S PRIOR APPROVAL. THE CONTRACTOR(S) SHALL FURNISH A LETTER TO THE CITY, SIGNED BY OWNER, EVIDENCING THAT OWNER IS SATISFIED THAT THE PROPERTIES HAVE BEEN RESTORED TO THE CONDITION OF THE PROPERTIES EXISTING PRIOR TO THE CONSTRUCTION ACTIVITIES RELATED TO THE PROJECT.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION LAYOUT FROM THE SITE LAYOUT CONTROL POINTS SHOWN IN THESE PLANS, AND FROM THE DIMENSIONS AND BASELINES SHOWN. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. ELECTRONIC FILES WILL NOT BE PROVIDED FOR DIMENSIONAL CONTROL OF PROJECT LAYOUT OR ANY OTHER PURPOSES.
- WHERE THE CONTRACTOR DESIRES TO MOVE EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS ON OR ACROSS ANY PAVEMENT, HE SHALL PROTECT THE PAVEMENT FROM ALL DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED PAVEMENT TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION.
- THE CONTRACTOR SHALL PROVIDE PROTECTION TO EXISTING ROADWAY FROM EQUIPMENT INCLUDING TRACKING, ETC.
- ANY UNDERMINING OR DAMAGING OF ANY ROADWAY DUE TO THE WASTEWATER LINE TRENCH OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND REPAIRED BY THE CONTRACTOR TO THE CITY'S SATISFACTION AT NO COST TO THE CITY.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE FOR APPROVAL PRIOR TO BEGINNING WORK. SEQUENCING SHALL INCLUDE SCHEDULE FOR CLEARING COMPLETED SECTIONS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT THE AMOUNT OF TREE DAMAGE. THE CONTRACTOR, ALONG WITH THE OWNER'S REPRESENTATIVE, SHALL IDENTIFY WHICH TREES WILL NEED TO BE REMOVED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT TREES WHICH ARE NOT IDENTIFIED TO BE REMOVED. THE CONTRACTOR IS REQUIRED TO ADHERE TO ARTICLE 09: TREE PRESERVATION, OF THE CITY OF ROCKWALL'S UNIFIED DEVELOPMENT CODE IN ALL MATTERS RELATED TO TREE PRESERVATION AND REMOVAL.
- ALL TREE REMOVAL ACTIVITIES WILL BE REQUIRED TO TAKE PLACE PRIOR TO ANY OTHER CONSTRUCTION. ANY TREE THAT IS REMOVED SHALL BE TRANSPORTED FROM THE PROJECT SITE THAT SAME DAY. OWNER'S REPRESENTATIVE SHALL BE PRESENT DURING ALL TREE REMOVAL ACTIVITIES.
- THE CONTRACTOR SHALL REESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION.
- ONLY THOSE ITEMS LISTED IN THE BID FORM WILL BE MEASURED AND PAID FOR AT THE UNIT PRICE. ALL OTHER WORK WILL BE CONSIDERED SUBSIDIARY AND SHOULD BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS BID ITEMS.
- HORIZONTAL CONTROL POINTS AND VERTICAL BENCHMARKS HAVE BEEN ESTABLISHED ALONG THE ROUTE OF THE WASTEWATER LINE AND ARE SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND MAINTAIN HORIZONTAL AND VERTICAL ALIGNMENT OF THE WASTEWATER LINE BEFORE AND DURING CONSTRUCTION.
- CONTRACTOR SHALL SURVEY ALL EXISTING FLOW LINES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF DISCREPANCIES TO THESE PLANS EXIST.
- ALL WORKING AREAS SHALL BE FENCED WITH TEMPORARY FENCING, 48" TALL, ORANGE CONSTRUCTION FENCE, POLYBARRIER AS MANUFACTURED BY SIGNATURE SYSTEMS GROUP OR APPROVED EQUAL. FENCE SHALL BE FASTENED TO STEEL T-POSTS AT A MAXIMUM DISTANCE OF 96" OR AS RECOMMENDED BY FENCE MANUFACTURER. WORKING AREA IS DEFINED AS ALL AREAS DISTURBED BY THE CONTRACTOR, INCLUDING THE TEMPORARY AND PERMANENT EASEMENTS.
- ALL MANHOLE LIDS IN THE FLOODPLAIN SHALL BE INSTALLED WITH A BOLT AND GASKET RIM AND COVER.
- CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE NATIONWIDE PERMIT 12 AND ANY OTHER LOCAL, STATE, OR FEDERAL REGULATIONS NOTED OR NOT.
- CONTRACTOR SHALL CEASE WORK AND CONTACT TEXAS HISTORICAL CODE IMMEDIATELY IF A SUSPECTED ARCHAEOLOGICAL OBJECT OR ARTIFACT IS FOUND OR UNCOVERED DURING CONSTRUCTION. CONTRACTOR SHALL CEASE WORK AND CONTACT UNITED STATES FISH AND WILDLIFE SERVICE IMMEDIATELY IF A SUSPECTED FEDERALLY-LISTED THREATENED OR ENDANGERED SPECIES IS ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT.
- CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS, PERTAINING TO CONSTRUCTION EQUIPMENT EMISSIONS AND/OR CONSTRUCTION EQUIPMENT WORK HOUR RESTRICTIONS.
- CONTRACTOR SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS PERTAINING TO REGULATED MATERIALS ON CONSTRUCTION SITES.
- CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AT ALL TIMES, OR NOTIFY RESIDENTS 72 HOURS IN ADVANCE OF TIMES WHEN NO ACCESS WILL BE PROVIDED. TIMES IN WHICH NO ACCESS WILL BE PROVIDED SHALL BE LIMITED TO THE HOURS BETWEEN 9:30 AM AND 3:30 PM AND SHALL LAST FOR NO LONGER THAN 3 HOURS. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION TO ALL PROPERTY OWNERS OF ANY CONSTRUCTION ACTIVITY THAT WILL OBSTRUCT PROPERTY ACCESS. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR THE VARIOUS ITEMS LISTED IN THE PROPOSAL.
- AT PAVED AREAS, IF CONTRACTOR DOES NOT INSTALL PERMANENT PAVEMENT IMMEDIATELY AFTER BACKFILLING, HE SHALL BE REQUIRED TO INSTALL AN ALL-WEATHER SURFACE PATCH. THE COST OF THE TEMPORARY PAVEMENT SHALL BE SUBSIDIARY TO THE "REMOVE AND REPLACE CONCRETE PAVEMENT" BID ITEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED RCPs (REINFORCED CONCRETE PIPE) WITH EQUIVALENT SIZE AND SIMILAR MATERIAL PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE OF FOR REPAIRING ANY DAMAGED DRIVEWAYS TO A CONDITION AS GOOD OR BETTER THAN EXISTING.
- DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR'S SUPERINTENDENT SHALL BE CAPABLE OF BEING ON THE PROJECT SITE WITHIN TWO HOURS OF THE CITY NOTIFICATION. THE CONTRACTOR'S SUPERINTENDENT IS RESPONSIBLE FOR PERFORMING THE WORK ON SCHEDULE AND IS RESPONSIBLE FOR MANAGING AND DIRECTING THE SUBCONTRACTORS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE MEASURES FOR PREVENTING STORM WATER RUNOFF FROM ENTERING THE TRENCH DURING CONSTRUCTION.
- CONTRACTOR SHALL SECURE EXCAVATION AT THE END OF EACH DAY. THE OWNER MAY REQUIRE THAT NO TRENCHES BE LEFT OPEN OVERNIGHT IN STREETS OR POPULATED AREAS.
- TOPSOIL SHALL BE STOCKPILED AND REPLACED TO A MINIMUM DEPTH OF 12 INCHES AND DISC HARROWED TO A MINIMUM DEPTH OF 4 INCHES.
- FINISHED GROUND SHALL HAVE NO MORE ROCKS OVER 1 INCH THAN SURROUNDING UNDISTURBED GROUND.
- CONTRACTOR SHALL REPLACE ANY TREES REMOVED OR DESTROYED WITHOUT THE OWNER'S PERMISSION OR SHALL PAY FAIR MARKET VALUE (AS DETERMINED BY THE OWNER) TO THE OWNER.
- CONTRACTOR SHALL PROVIDE ADEQUATE MEASURES FOR DEWATERING AS NECESSARY.
- CONTRACTOR SHALL REMOVE FENCES AS REQUIRED FOR CONSTRUCTION. BARBED WIRE, WROUGHT IRON, CHAIN AND CHAIN LINK FENCES SHALL BE REPLACED OR RECONSTRUCTED. NEW MATERIALS SHALL MATCH EXISTING FENCES. ANY FENCING REMOVED SHALL BE REPLACED IN KIND WITH LIKE OR BETTER MATERIALS, AND BE PAINTED OR STAINED TO MATCH EXISTING FENCE. ANY FENCES DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE SAME LOCATION WITH A FENCE OF EQUAL OR SUPERIOR QUALITY.
- FOLLOWING INSTALLATION OF FACILITIES ACROSS WATERWAYS, WATERWAY BOTTOM AND BANKS SHALL BE RESTORED TO THEIR ORIGINAL CONFIGURATION AND REVEGETATED.
- THE CONTRACTOR SHALL EMPLOY ADEQUATE METHODS TO MINIMIZE TURBIDITY IN WATERWAYS DURING ALL PHASES OF THE PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS CONCERNING WATER POLLUTION AND CONTROL OF EROSION.
- NO FIRES WILL BE ALLOWED. BRUSH AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE.
- CONTRACTOR SHALL NOT DAMAGE EXISTING TREES LARGER THAN 3 INCHES IN DIAMETER (MEASURED 4 FT. ABOVE THE GROUND) THAT ARE NOT CURRENTLY IDENTIFIED TO BE

- REMOVED. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE BEFORE ANY TREES CAN BE REMOVED OR TRIMMED.
- IT SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO REBUILD THE CONCRETE OR ASPHALT PAVEMENT REPLACEMENT SECTIONS TO THE SAME LINE AND GRADE AS WAS EXISTING PRIOR TO PIPELINE CONSTRUCTION.
- BLASTING WILL NOT BE ALLOWED.
- CONSTRUCTION SURVEYING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR INCLUDING BUT NOT LIMITED TO LIMITS OF PERMANENT EASEMENT, TEMPORARY EASEMENT, CENTERLINE, ETC. THE CONTRACTOR SHALL VERIFY ALL CONTROL MONUMENTATION PRIOR TO BEGINNING CONSTRUCTION.
- CLEARING AND GRUBBING MAY BEGIN NO SOONER THAN TWO WEEKS PRIOR TO PIPE TRENCHING OPERATIONS. PIPE STRINGING SHALL BE NO MORE THAN TWO WEEKS PRIOR TO PIPE LAYING. BACKFILL, CLEAN-UP, AND SURFACE RESTORATION SHALL BE COMPLETED NO MORE THAN TWO WEEKS AFTER PIPE LAYING AND NO MORE THAN 500 FEET FROM PIPE LAYING OPERATIONS. THE SITE SHALL BE KEPT CLEAN OF TRASH AT ALL TIMES. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN WITHHOLDING SOME OR ALL PAYMENT TO THE CONTRACTOR.
- CONTRACTORS OPERATIONS MUST STAY WITHIN THE PERMANENT AND TEMPORARY EASEMENTS AND CONTRACTOR'S WORK AREA DESIGNATED ON THE PLAN SHEETS. ANY DAMAGE OUTSIDE THESE OPERATIONS SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTORS EXPENSE. ACCESS ROUTES OR OPERATIONS WHICH FALL OUTSIDE THE DESIGNATED AREAS WILL ONLY BE ALLOWED WITH PRIOR LANDOWNER CONSENT. CONTRACTOR IS RESPONSIBLE FOR SECURING RIGHT-OF-ENTRY AGREEMENTS TO PROPERTIES WITH EXISTING EASEMENT PRIOR TO MOBILIZATION. CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF ANY AGREEMENTS MADE BETWEEN THE LANDOWNER AND THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE TO THE OWNER DOCUMENTING THE CONDITION OF THE PIPELINE ROUTE, INCLUDING THE RIGHT-OF-WAY, PERMANENT EASEMENT, TEMPORARY EASEMENT AND SURROUNDING AREA PRIOR TO THE START OF ANY CONSTRUCTION. VIDEO TO BE PROVIDED PRIOR TO FIRST PAYMENT TO CONTRACTOR.
- WHERE IT IS NECESSARY FOR LANDOWNERS TO MOVE TRAILERS, SHEDS, OR OTHER FACILITIES OR IMPROVEMENTS, OR WHEN THE CONTRACTOR INTENDS TO MOVE SUCH FACILITIES OR IMPROVEMENTS, CONTRACTOR SHALL NOTIFY THE LAND OWNER AND THE OWNER NO LESS THAN 14 DAYS PRIOR TO MOVING THE FACILITIES OR IMPROVEMENTS.
- PIPE USED FOR PIPE BURSTING REPLACEMENT OF EXISTING PIPE SHALL BE HDPE (SPECIFY DIPS ONLY) (DR 17 DIPS).
- CONTRACTOR SHALL REPLACE ALL DAMAGED GRASS INSIDE CITY OF ROCKWALL RIGHT-OF-WAY WITH SOLID BLOCK SODDING MATCHING EXISTING ADJACENT GRASS TYPE AND IN ACCORDANCE WITH THE CITY OF ROCKWALL GENERAL NOTES FOR CONSTRUCTION. ALL DAMAGED GRASS OUTSIDE OF RIGHT-OF-WAY SHALL BE SEEDED WITH GRASS MATCHING EXISTING ADJACENT GRASS TYPE, UNLESS OTHERWISE STATED ON THE INDIVIDUAL PLAN SHEETS.
- CONTACT CITY PARKS AND REC DEPARTMENT AT NOTICE TO PROCEED TO COMMUNICATE SCHEDULING. CONTACT AGAIN 1 WEEK IN ADVANCE OF WORK. CONTACT IF ANY UNDERGROUND UTILITY IS ENCOUNTERED DURING CONSTRUCTION IN PARK PROPERTY. CONTACT: TRAVIS SALES, DIRECTOR OF PARKS RECREATION AND ANIMAL SERVICES, (972) 772-6467.
- PRE-CONSTRUCTION CCTV INSPECTION IS NOT REQUIRED FOR THIS PROJECT.
- GEOTECHNICAL REPORT IS INCLUDED IN THE SPEC BOOK APPENDIX.
- SUBSURFACE UTILITY ENGINEERING REPORT AND RESULTS ARE INCLUDED IN THE SPEC BOOK APPENDIX.

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DATE: 7/28/2022 BY: *[Signature]*

BYPASS PUMPING NOTES

- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE IN WRITING A SEQUENCE OF BYPASS PUMPING FOR REVIEW AND APPROVAL BY THE INSPECTOR. THE CONTRACTOR SHALL ALSO PROVIDE THE INSPECTOR A SKETCH SHOWING THE LOCATION OF BYPASS PUMPING EQUIPMENT FOR EACH LINE SEGMENT(S) AROUND WHICH FLOWS ARE BYPASSED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE BYPASS EQUIPMENT, FORCE MAINS, AND OTHER NECESSARY APPURTENANCES IN ORDER TO MAINTAIN RELIABLE SANITARY SEWER SERVICE IN ALL SANITARY SEWER LINES AS REQUIRED FOR CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE BACKUP PUMP(S), FORCE MAIN(S), AND APPURTENANCES READY TO DEPLOY IMMEDIATELY. APPURTENANCES AND DISCHARGE POINTS SHALL BE APPROVED BY THE INSPECTOR.
- ANY SPILLAGE, BACKUPS AND/OR OVERFLOWS, ETC. AS THE RESULT OF INADEQUATE EQUIPMENT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL DEMONSTRATE THAT THE PUMPING SYSTEM IS IN GOOD WORKING ORDER AND IS SUFFICIENTLY SIZED TO SUCCESSFULLY HANDLE FLOWS BY PERFORMING A TEST RUN PRIOR TO BEGINNING THE WORK FOR A PERIOD OF 4 HOURS. TESTING IS NOT TO BE SCHEDULED DURING WEEKEND HOURS.
- THE CONTRACTOR SHALL BE REQUIRED TO HAVE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE PROPOSED WORK ON THE JOB SITE PRIOR TO ISOLATING THE SEWER MANHOLE OR LINE SEGMENT AND BEGINNING BYPASS PUMPING OPERATIONS.
- ONCE NEW SEWER COLLECTION SYSTEM HAS BEEN COMPLETED, TESTED AND ACCEPTED, THE CONTRACTOR SHALL CEASE OPERATIONS AND RETURN FLOWS TO THE NEW AND/OR EXISTING SEWER WHEN DIRECTED BY THE INSPECTOR.
- ALL PIPING(S), JOINTS AND ACCESSORIES OF THE BYPASS PUMPING SYSTEM SHALL BE DESIGNED TO WITHSTAND AT LEAST TWICE THE MAXIMUM SYSTEM PRESSURE, OR A MINIMUM OF 50 PSI WHICHEVER IS GREATER.
- DURING BYPASS PUMPING, NO SEWAGE SHALL BE LEAKED, DUMPED, OR SPILLED IN OR UNTO, ANY AREA OUTSIDE OF THE EXISTING SANITARY SEWER SYSTEM AND TEMPORARY BYPASS SYSTEM. WHEN BYPASS PUMPING OPERATIONS ARE COMPLETE, ALL BYPASS PUMPING SHALL BE DRAINED INTO THE SANITARY SEWER PRIOR TO DISASSEMBLY.
- THE CONTRACTOR SHALL PLUG OFF AND PUMP DOWN THE SEWER MANHOLE OR LINE SEGMENT IN THE IMMEDIATE WORK AREA AND SHALL MAINTAIN THE SANITARY SEWER SYSTEM SO THAT SURCHARGING DOES NOT OCCUR. WHERE WORK REQUIRES THE LINE TO BE BLOCKED BEYOND WORKING HOURS, CONTRACTOR SHALL OPERATE BYPASS PUMPING AND MAN THE SYSTEM 24 HOURS A DAY.
- THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE WILL BE CAUSED TO PRIVATE PROPERTY AS A RESULT OF BYPASS PUMPING OPERATIONS. INGRESS AND EGRESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. RAMPS, STEEL PLATES OR OTHER METHODS SHALL BE DEPLOYED BY THE CONTRACTOR TO FACILITATE TRAFFIC OVER SURFACE PIPING. HIGH TRAFFIC COMMERCIAL PROPERTIES MAY REQUIRE ALTERNATE METHODS.
- CONTRACTOR SHALL BEGIN CONTINUAL MONITORING OF THE SEWER SYSTEM AS SOON AS THE SEWER IS PLUGGED OR BLOCKED. BE PREPARED TO IMMEDIATELY START BYPASS PUMPING IF NEEDED DUE TO SURCHARGE CONDITIONS.
- SEWER DISCHARGE MAY BE INTO ANOTHER SEWER MANHOLE OR APPROPRIATE VEHICLE OR CONTAINER ONLY. DO NOT DISCHARGE SEWER INTO AN OPEN ENVIRONMENT SUCH AS AN OPEN CHANNEL OR EARTHEN HOLDING FACILITY.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE INSPECTOR SHOULD A SURCHARGE OCCUR THAT RESULTS IN AN OVERFLOW OF SEWAGE. IF THE CONTRACTOR IS UNABLE TO REMEDY THE SITUATION, THEN HE SHOULD SUSPEND OR TERMINATE THE WORK UNTIL SUCH TIME AS THE OVERFLOWS HAVE BEEN CONTROLLED. SHOULD SUCH SURCHARGE DAMAGE THE MATERIALS AND/OR EQUIPMENT THAT ARE USED ON THE JOB AND/OR ADJACENT PROPERTY, IT SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- IN THE EVENT THAT SEWAGE ACCIDENTALLY DRAINS INTO THE DRAINAGE SYSTEM OR STREET, THE CONTRACTOR SHALL IMMEDIATELY STOP THE OVERFLOW, NOTIFY THE INSPECTOR, AND TAKE THE NECESSARY ACTION TO CLEAN UP AND DISINFECT THE SPILLAGE TO THE SATISFACTION OF THE INSPECTOR. IF SEWAGE IS SPILLED ONTO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL WASH DOWN, CLEAN UP AND DISINFECT THE SPILLAGE TO THE SATISFACTION OF THE INSPECTOR.
- FORCE MAIN PIPING MAY BE LAID INSIDE OF STORM DRAINAGE PIPES TO AVOID SURFACE INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC. FLOWS SHALL NOT BE ALLOWED TO SPILL FROM SAID FORCE MAINS INTO SAID DRAINAGE PIPES. THE USE OF EXISTING STORM DRAIN SYSTEMS SHALL BE APPROVED BY THE CITY. FORCE MAINS LAID IN STORM SEWERS SHALL BE PRESSURE PIPE AND FITTINGS.
- THE CONTRACTOR SHALL NOT INTENTIONALLY DAMAGE OR REMOVE PORTIONS OF EXISTING STORM SEWER SYSTEM STRUCTURES OR SANITARY SEWER STRUCTURES FOR THE PURPOSE OF INSTALLING THE BYPASS PUMPING SYSTEM WITHOUT SPECIFIC APPROVAL FROM THE CITY. IF A STRUCTURE IS DAMAGED, IT SHALL BE RECONSTRUCTED OR REPLACED TO THE SATISFACTION OF THE CITY AT NO ADDITIONAL COST.
- CITY OF ROCKWALL SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE BYPASS PUMPING SYSTEM SUSTAINED BY THE CONTRACTOR DIRECTLY OR INDIRECTLY AS RESULT OF STORM WATER RUNOFF WITHIN STREETS, DITCHES AND/OR STORM SEWER SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE THAT RESULTS DIRECTLY OR INDIRECTLY FROM THE INTERFERENCE OF STORM WATER RUNOFF TO BYPASS PUMPING EQUIPMENT, PIPING AND/OR APPURTENANCES. THE CONTRACTOR SHALL ESTABLISH ADEQUATE BYPASS PUMPING AS REQUIRED REGARDLESS OF THE FLOW CONDITIONS.
- CONTRACTOR WILL BE REQUIRED TO MAINTAIN VEHICULAR ACCESS ACROSS ANY BYPASS PIPING CROSSING PUBLIC R.O.W. OR PRIVATE DRIVEWAYS (NO SEPARATE PAY ITEM).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBSERVING WEATHER FORECASTS AND NOTIFYING INSPECTOR OF ANY SEVERE WEATHER POSSIBILITIES DURING CONSTRUCTION. IN THE EVENT OF INCLEMENT WEATHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUSPENDING ALL BYPASS ACTIVITIES, INCLUDING THE COST OF ANY MOBILIZATION, DE-MOBILIZATION, AND RE-MOBILIZATION.
- CONTRACTOR SHALL NOTIFY CITY OF ROCKWALL IMMEDIATELY OF ANY SPILLS THAT OCCUR DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A BYPASS PUMPING SYSTEM WHICH CAN ACCOMMODATE 1.5 TIMES THE PEAK FLOW, PLUS AN ADDITIONAL PUMP FOR REDUNDANCY.
- THE CONTRACTOR IS RESPONSIBLE FOR MONITORING THE EXISTING MANHOLES UPSTREAM OF THE BYPASS PUMPING OPERATION FOR ANY SIGNS OF OVERFLOW. THE CONTRACTOR SHALL LIMIT THE SURCHARGE IN THE PUMPING MANHOLE TO AND ELEVATION THAT PROHIBITS SURCHARGING IN OTHER PARTS OF THE WASTEWATER COLLECTION SYSTEM.

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NO.	Revision	By	Date

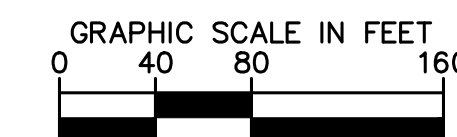
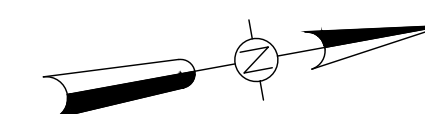
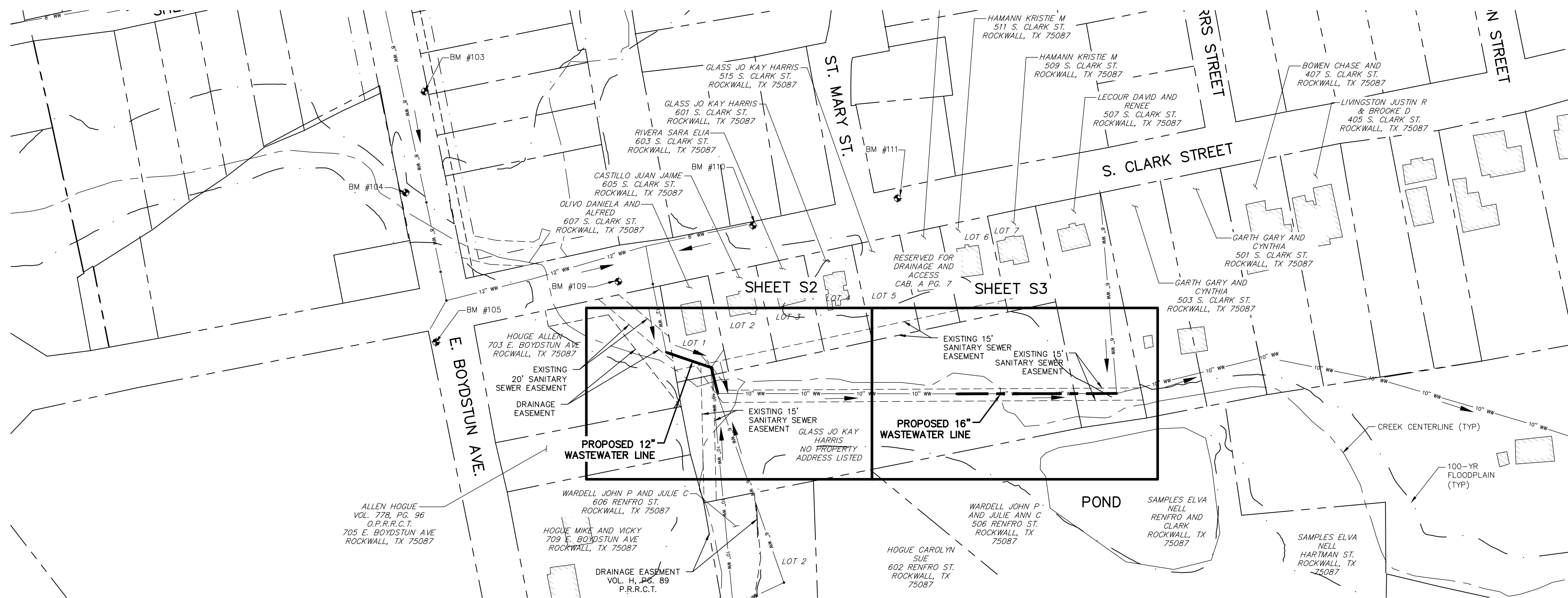
**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

GENERAL NOTES

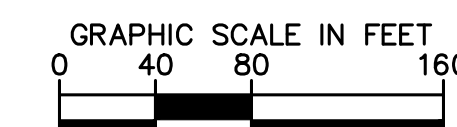
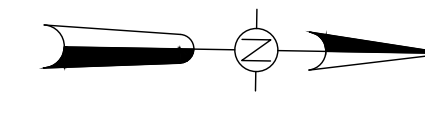
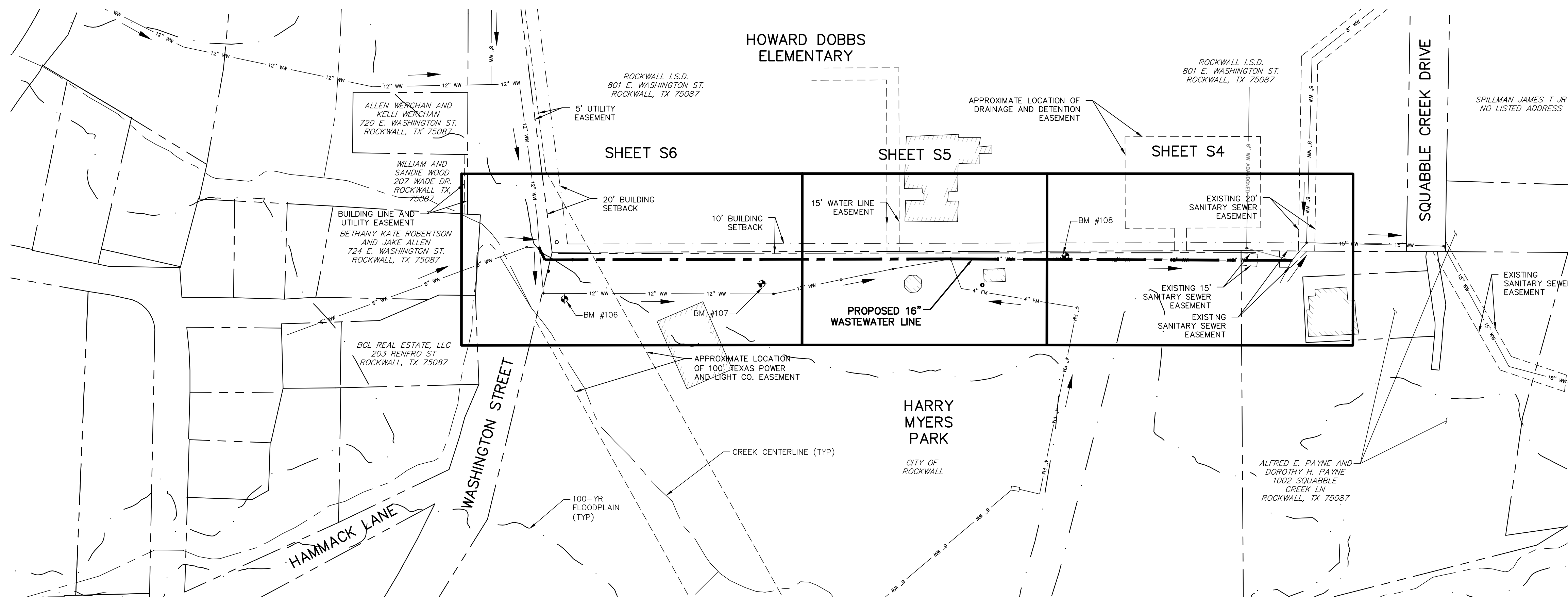
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SEGMENT 6



SEGMENT 8



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 13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 972.971-1300
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**ROCKWALL COUNTY
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 WASTEWATER MAIN
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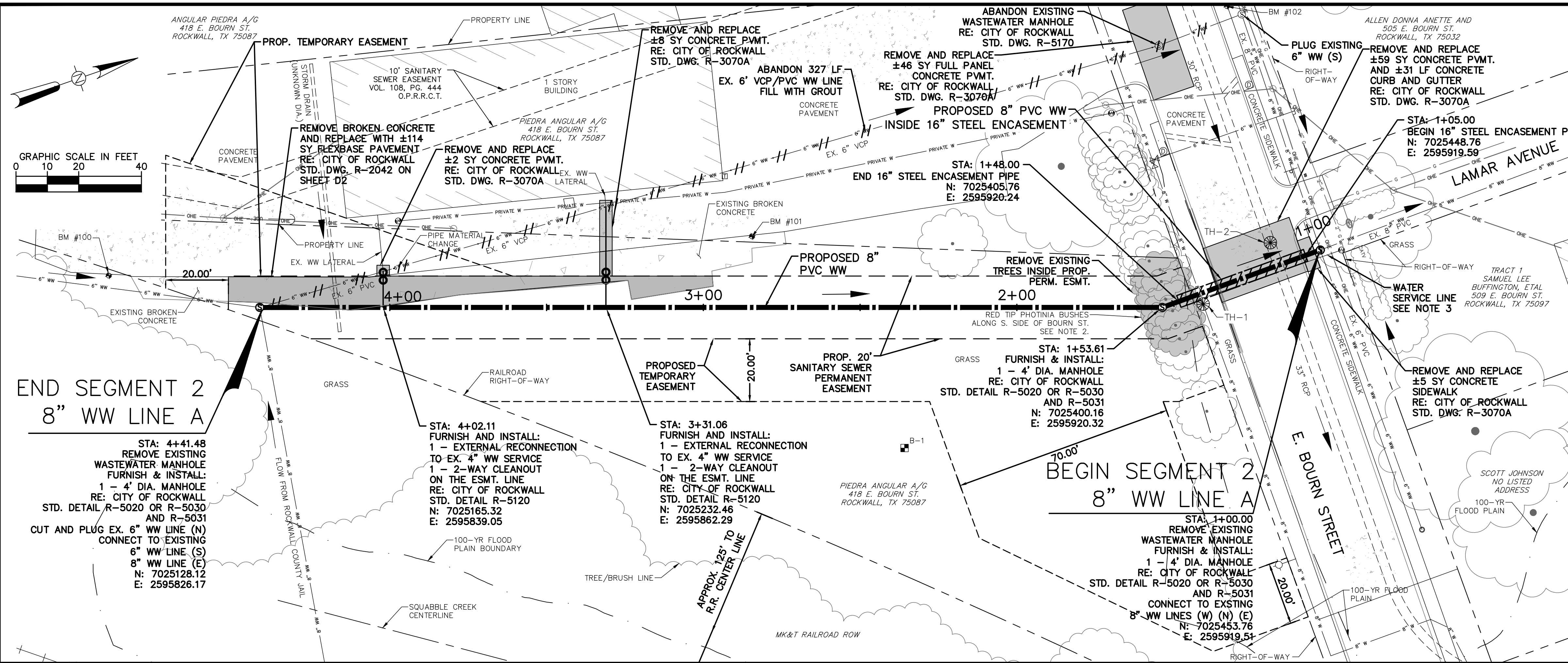
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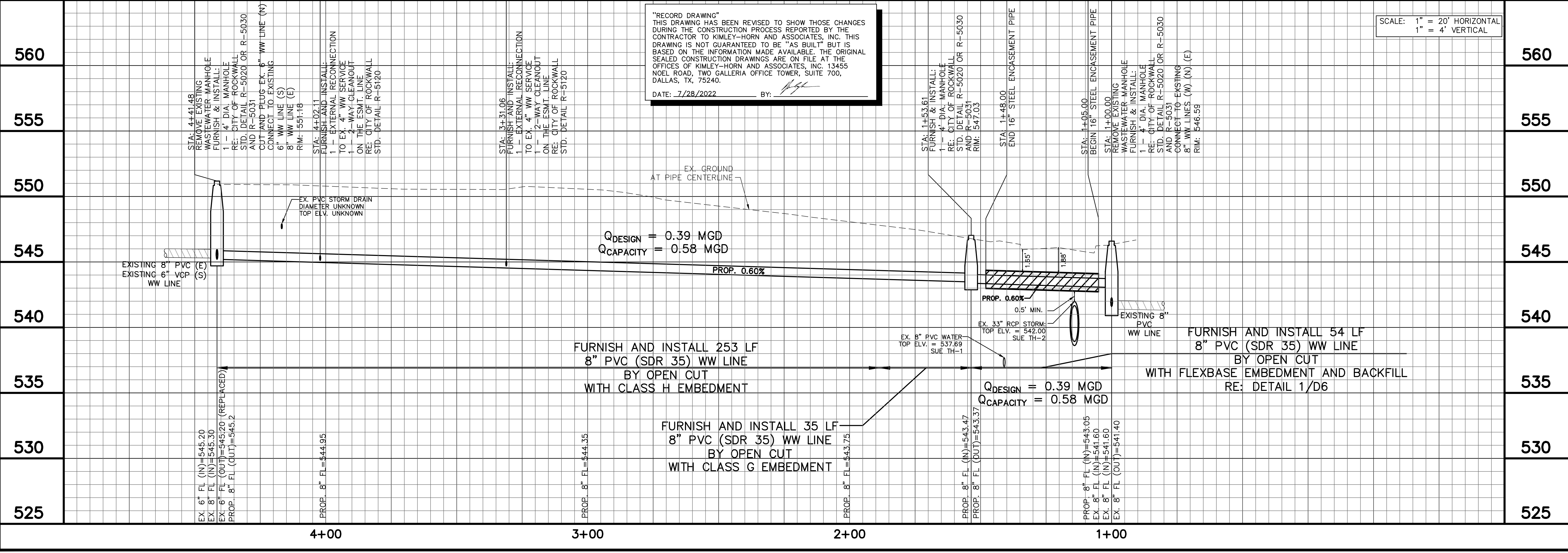
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- NOTES:**
- INSTALL CONCRETE MOW STRIP ON ALL NEW AND REHABILITATED MANHOLES PER CITY OF ROCKWALL STD. DWG. R-5180. INSTALL RIM ELEVATION ON NEW MANHOLES AS SHOWN IN PLANS.
 - CONTRACTOR SHALL PROTECT ALL TREES NOT MARKED FOR REMOVAL. ONLY TREES IN THE PROPOSED PERMANENT EASEMENT SHALL BE REMOVED.
 - IF WATER SERVICE LINE IS ENCOUNTERED DURING OPEN CUT CONSTRUCTION ACROSS BOURN ST., CONTRACTOR TO RELOCATE WATER SERVICE LINE AND RECONNECT TO EXISTING WATER METER LOCATED NORTH OF BOURN ST. NO SEPARATE PAY ITEM. RE: CITY OF ROCKWALL STD. DWG. R-4130.
 - STEEL CASING SHALL HAVE AN INSIDE DIAMETER OF 16.00" AND MINIMUM THICKNESS OF 0.3125" RE: CITY OF ROCKWALL STD. DWG. R-3090 ON SHEET D4
 - CONTRACTOR DOES NOT CURRENTLY HAVE RIGHT-OF-ENTRY INTO UNION PACIFIC, DALLAS GARLAND AND NORTHEASTERN RAILROAD RIGHT-OF-WAY (MK&T PROPERTY). IF CONTRACTOR DESIRES TO USE THE ROW, CONTRACTOR SHALL COMPLETE THE RIGHT-OF-ENTRY APPLICATION AND CONTRACTOR'S ENDORSEMENT FOUND IN THE APPENDIX. CONTRACTOR IS ALSO RESPONSIBLE FOR PAYING THE \$6,000 RIGHT-OF-ENTRY FEE IN ADDITION TO THE \$500 CONTRACTOR FEE.
 - CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER PRIOR TO REPLACING BROKEN CONCRETE WITH FLEXBASE TO DETERMINE IF THAT IS THE OWNER'S PREFERENCE. IF FLEXBASE IS NOT DESIRED BY OWNER, THE DISTURBED AREA SHALL BE RESTORED WITH SEED.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO PARKING LOT AND RESIDENCES SOUTH OF THE CHURCH BUILDING DURING CONSTRUCTION ACTIVITIES.
 - BYPASS PUMPING INFORMATION:
 - CURRENT AVERAGE DAY FLOW: 0.065 MGD
 - CURRENT PEAK FLOW: 0.26 MGD

SUE TABLE

TEST HOLE NO.	NORTHING	EASTING	DEPTH	DESCRIPTION
TH-1	7025412.80	2595923.56	8.71	8" PVC WATER
TH-2	7025439.47	2595912.09	4.06	33" RCP STORM



"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.
DATE: 7/28/2022 BY: *[Signature]*

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

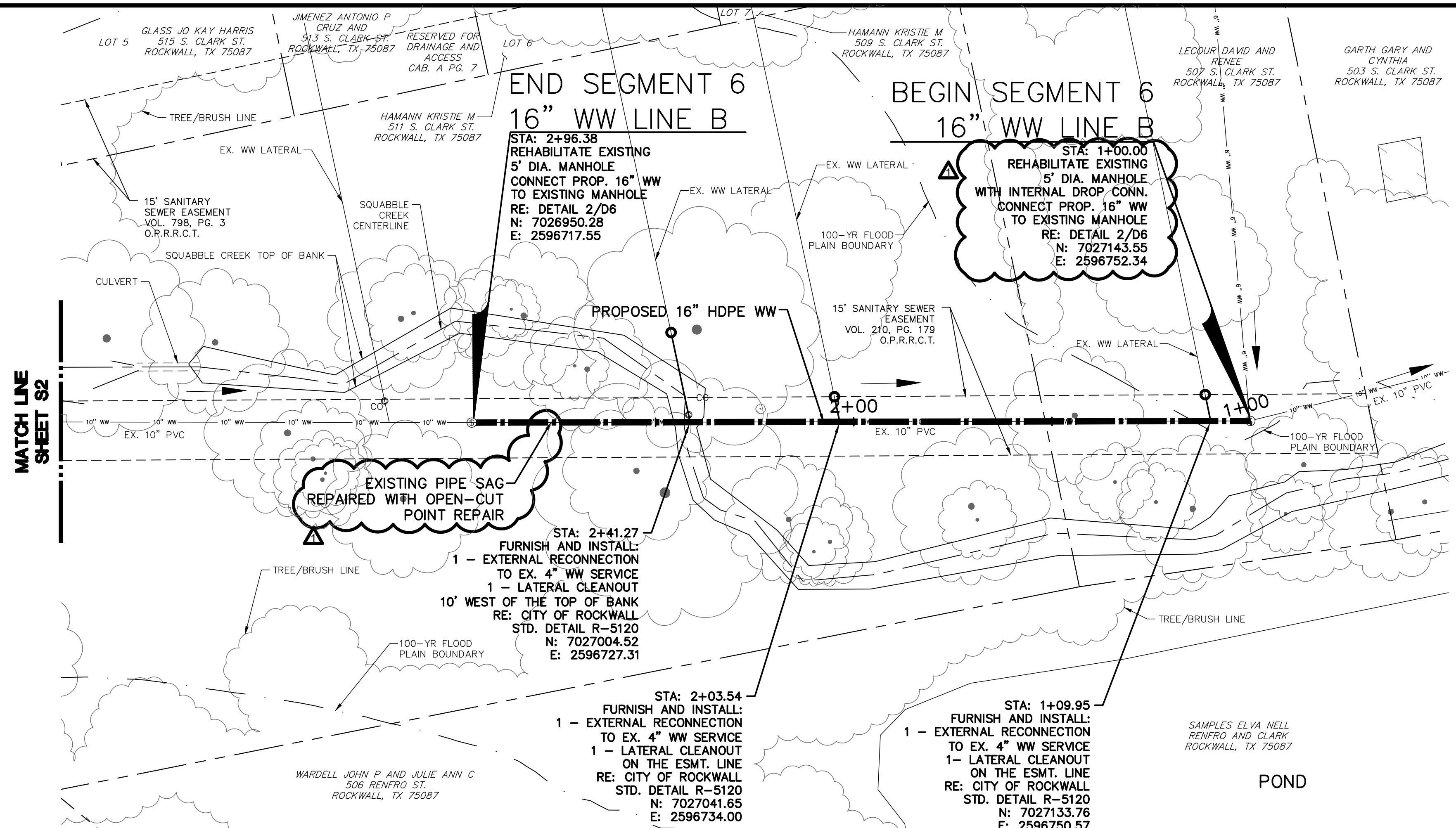
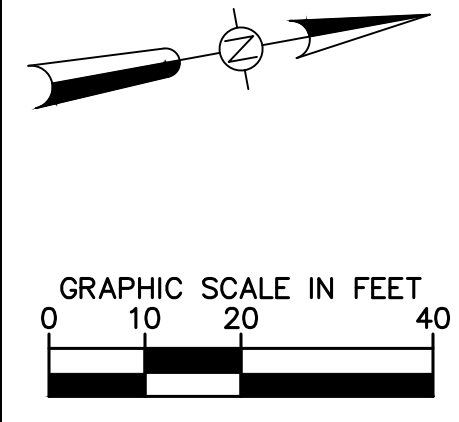
Kimley-Horn
13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 972-797-1300

**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

**8" WASTEWATER LINE
PLAN AND PROFILE
STA 1+00 TO 4+41
SEGMENT 2**

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

S1

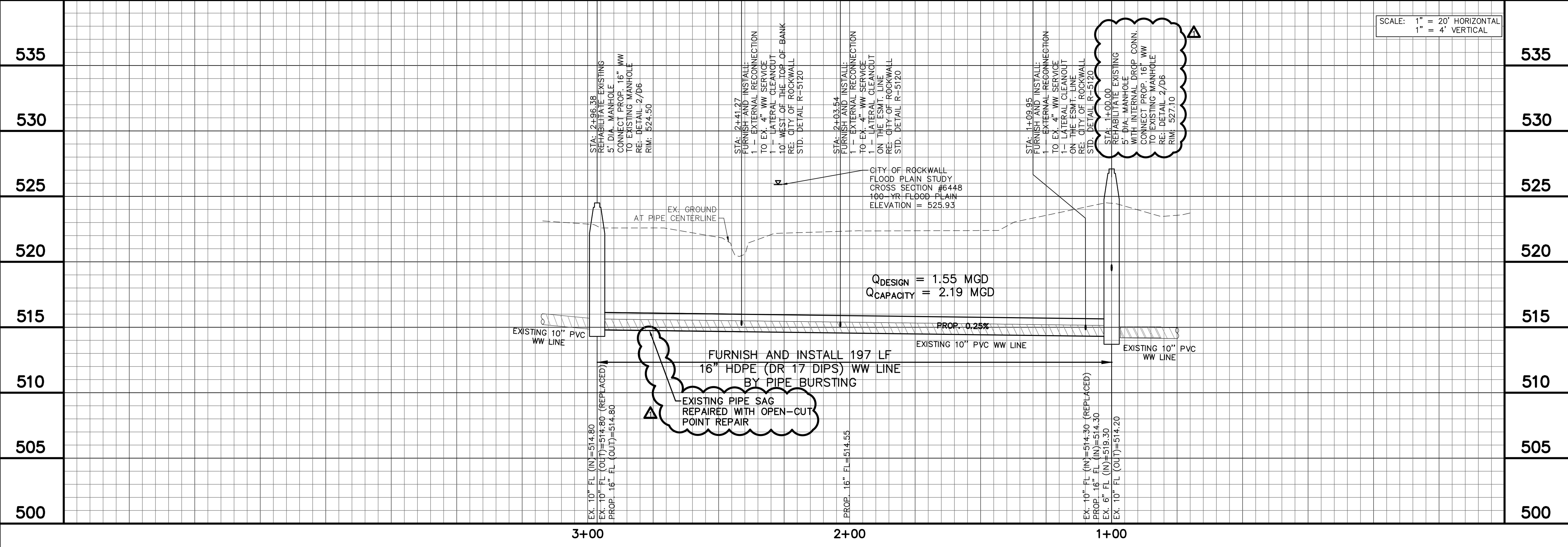


"RECORD DRAWING"
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 DATE: 7/28/2022 BY: [Signature]

- NOTES:
1. INSTALL CONCRETE MOW STRIP ON ALL NEW AND REHABILITATED MANHOLES PER CITY OF ROCKWALL STD. DWG. R-5180. INSTALL RIM ELEVATION ON NEW MANHOLES AS SHOWN IN PLANS.
 2. CONTRACTOR SHALL PROTECT ALL TREES NOT MARKED FOR REMOVAL.
 3. BYPASS PUMPING INFORMATION:
 - CURRENT AVERAGE DAY FLOW: 0.355 MGD
 - CURRENT PEAK FLOW: 1.42 MGD

Kimley-Horn	
NO.	1
REVISION	RECORD DRAWINGS
BY	JAS
DATE	03/25/2022

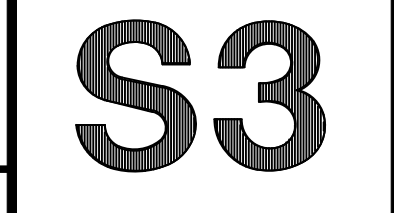
ROCKWALL COUNTY
 JAIL DOWNSTREAM
 WASTEWATER MAIN
 IMPROVEMENTS



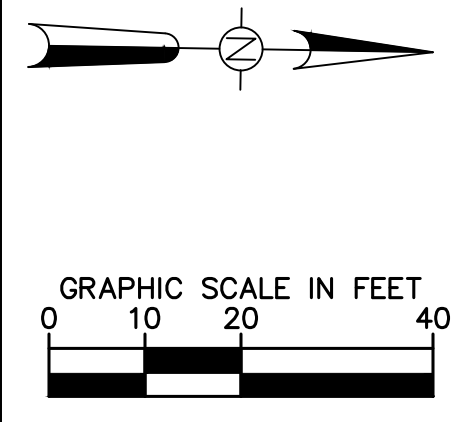
SCALE: 1" = 20' HORIZONTAL
 1" = 4' VERTICAL

16" WASTEWATER LINE
 PLAN AND PROFILE
 STA 1+00 TO 2+96
 SEGMENT 6, LINE B

DATE:	2/11/2021
DESIGN:	JAS
DRAWN:	RHJ
CHECKED:	WSP
KHA NO.:	064474704



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ROCKWALL I.S.D.
801 E. WASHINGTON
ST.
ROCKWALL, TX 75087

HOWARD DOBBS
ELEMENTARY

ROCKWALL I.S.D.
801 E. WASHINGTON ST.
ROCKWALL, TX 75087

PART 1
SANITARY SEWER EASEMENT
INST. NO.
200600358591
O.P.R.R.C.T.

ALFRED E. PAYNE AND
DOROTHY H. PAYNE
1002 SOUABBLE
CREEK LN
ROCKWALL, TX 75087

MATCH LINE
STA. 4+00, SHEET S5

MATCH LINE
STA. 4+00, SHEET S5

4+00

3+00

2+00

1+00

NOTES:

- INSTALL CONCRETE MOW STRIP ON ALL NEW AND REHABILITATED MANHOLES PER CITY OF ROCKWALL STD. DWG. R-5180. INSTALL RIM ELEVATION ON NEW MANHOLES AS SHOWN IN PLANS.
- CONTRACTOR SHALL PROTECT ALL TREES NOT MARKED FOR REMOVAL.
- ALL VEGETATION DISTURBED ON THE PAYNE PROPERTY SHALL BE RESTORED BY SODDING. ALL OTHER VEGETATION DISTURBED ON THIS SHEET SHALL BE SEEDED.
- CONTACT CITY PARKS AND REC DEPARTMENT AT NOTICE TO PROCEED TO COMMUNICATE SCHEDULING. CONTACT AGAIN 1 WEEK IN ADVANCE OF WORK. CONTACT IF ANY UNDERGROUND UTILITY IS ENCOUNTERED DURING CONSTRUCTION IN PARK PROPERTY. CONTACT: TRAVIS SALES, DIRECTOR OF PARKS RECREATION AND ANIMAL SERVICES, (972) 772-6467.
- BYPASS PUMPING INFORMATION:
 - CURRENT AVERAGE DAY FLOW: 0.458 MGD
 - CURRENT PEAK FLOW: 1.83 MGD

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.
DATE: 7/28/2022 BY: [Signature]

BEGIN SEGMENT 8
16" WW LINE A

STA: 1+00.00
REHABILITATE EXISTING
5" DIA. MANHOLE
FURNISH AND INSTALL
1 - 4" INTERNAL DROP CONN.
CONNECT PROP. 16" WW
TO EXISTING MANHOLE
RE: CITY OF ROCKWALL
STD. DETAIL R-5080
AND DETAIL 2/D6
N: 7029525.13
E: 2597384.18

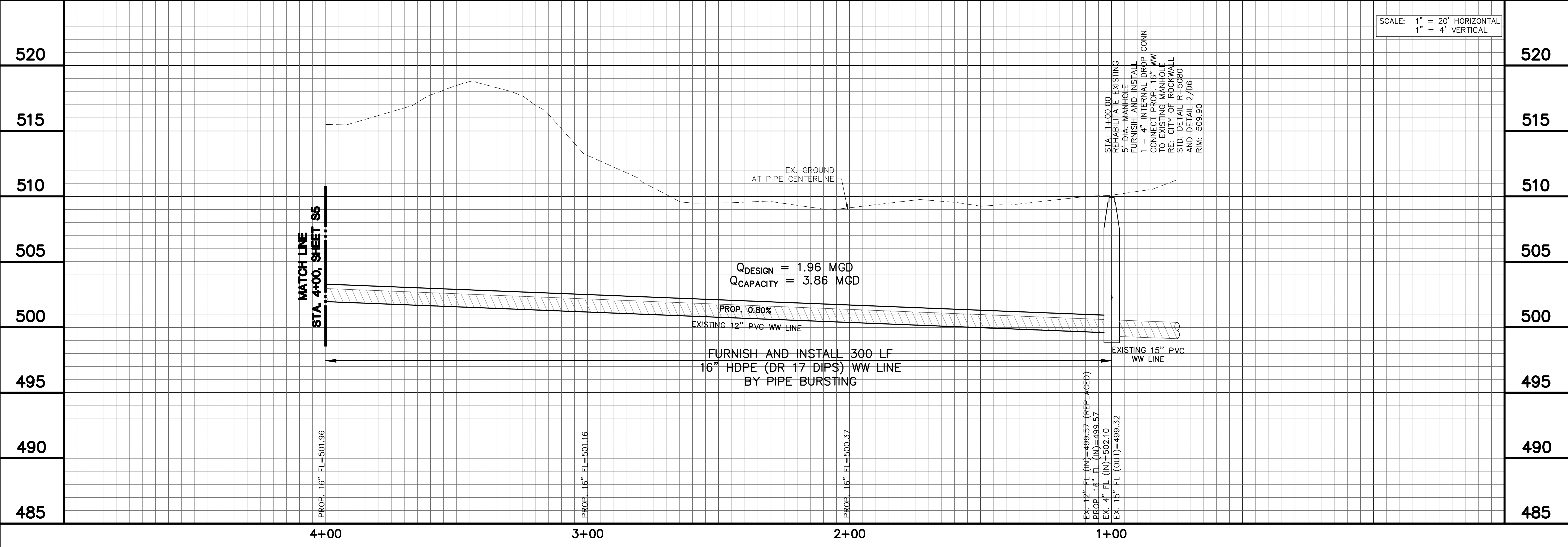
Q_{DESIGN} = 1.96 MGD
Q_{CAPACITY} = 3.86 MGD

PROP. 0.80%
EXISTING 12" PVC WW LINE

FURNISH AND INSTALL 300 LF
16" HDPE (DR 17 DIPS) WW LINE
BY PIPE BURSTING

STA: 1+00.00
REHABILITATE EXISTING
5" DIA. MANHOLE
FURNISH AND INSTALL
1 - 4" INTERNAL DROP CONN.
CONNECT PROP. 16" WW
TO EXISTING MANHOLE
RE: CITY OF ROCKWALL
STD. DETAIL R-5080
AND DETAIL 2/D6
RIM: 509.90

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



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No.	Revision	By	Date

ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS

16" WASTEWATER LINE
PLAN AND PROFILE
STA 1+00 TO 4+00
SEGMENT 8

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

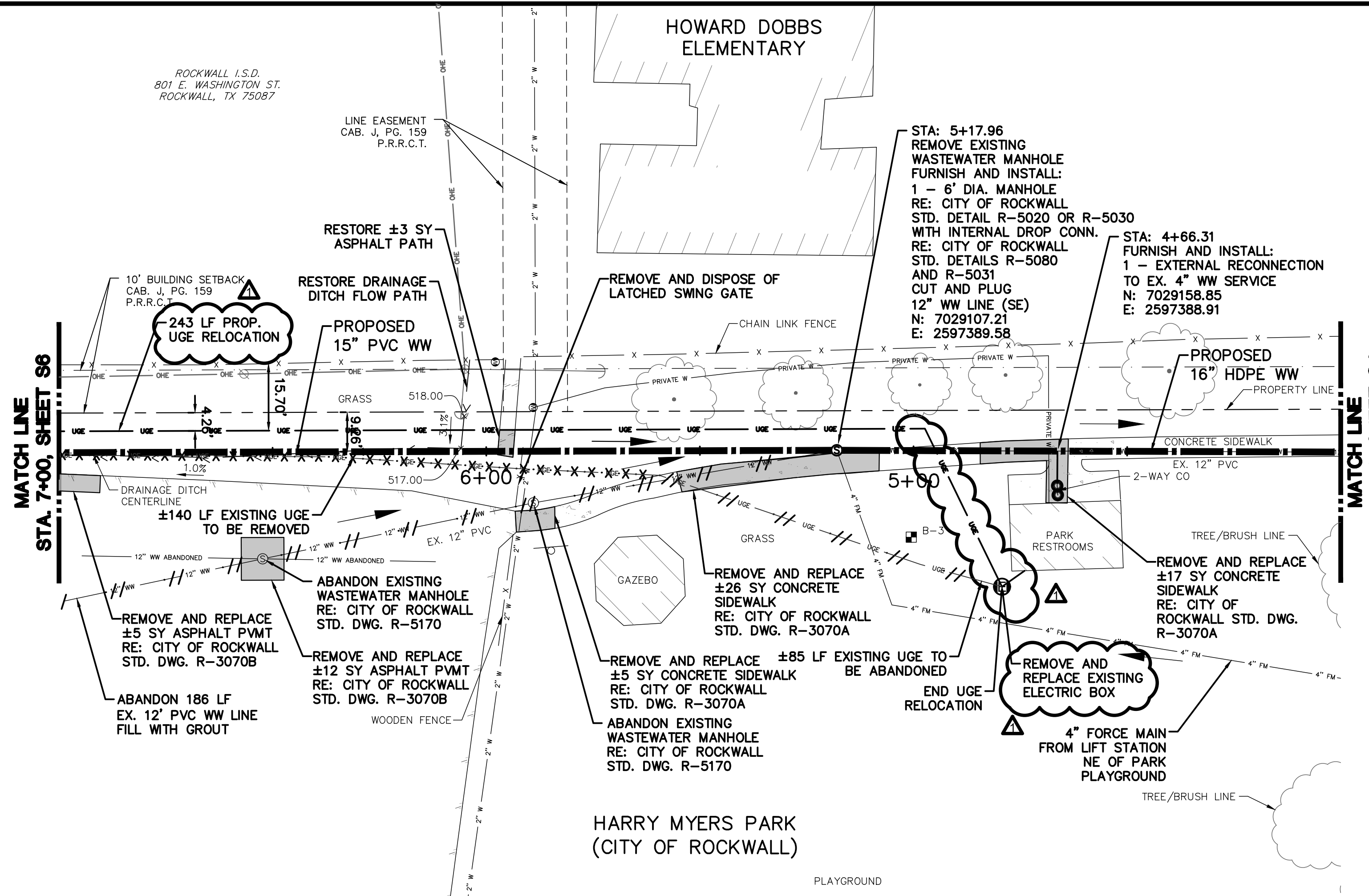
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ELECTRIC RELOCATION NOTES:

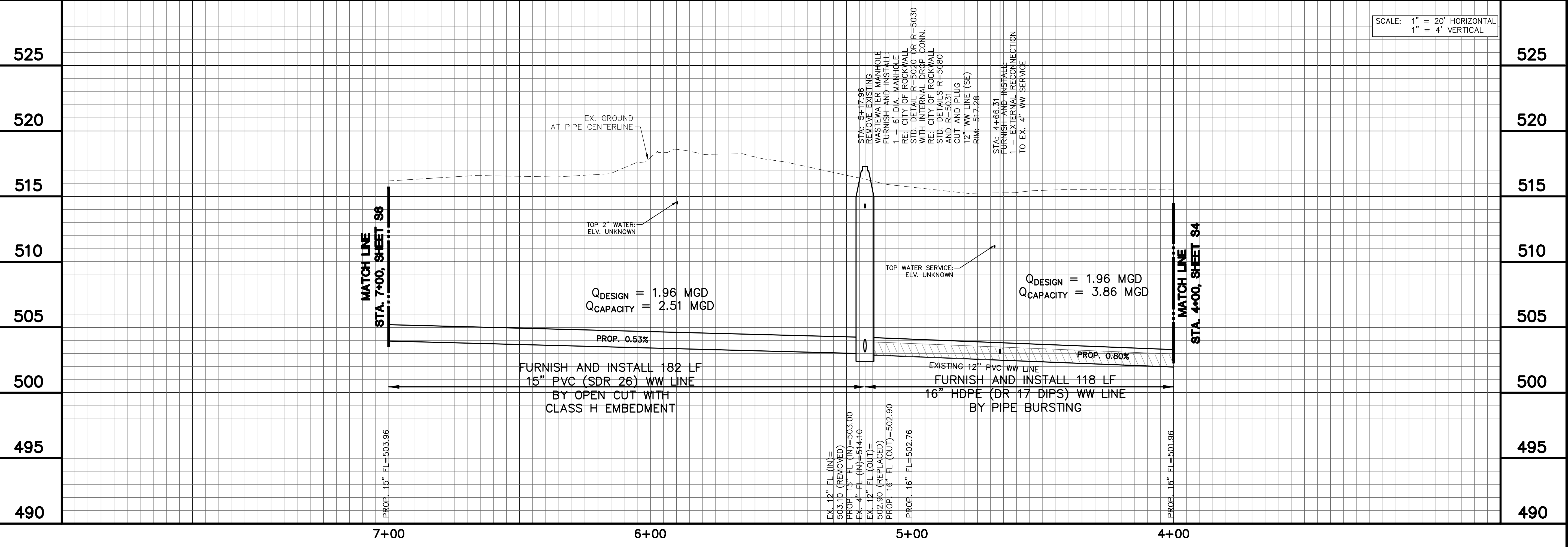
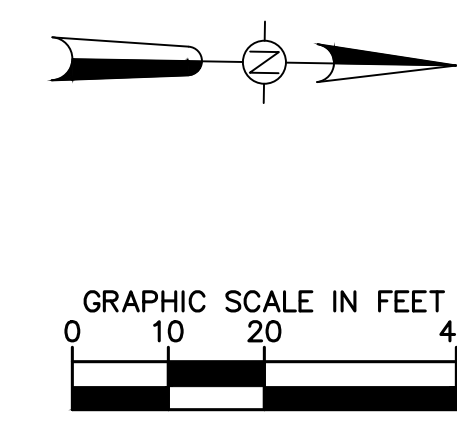
1. ELECTRIC LINE RELOCATION SHALL BE PERFORMED PRIOR TO WASTEWATER CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING AN ELECTRICAL PERMIT FROM THE CITY OF ROCKWALL BUILDING INSPECTION DEPARTMENT FOR THIS ELECTRICAL LINE RELOCATION. PER A CONVERSATION WITH CRAIG FOSHEE ON 1/15/2021, THIS PERMIT CAN BE APPLIED FOR "OVER THE COUNTER" WITH THESE SHEETS. NO FEES ARE REQUIRED FOR THE PERMIT APPLICATION.
3. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OF CITY OF ROCKWALL CODE REQUIREMENTS CONCERNING CONDUIT AND WIRING MATERIALS, BURY DEPTH, TRENCH PREPARATION, ETC.
4. A CITY BUILDING INSPECTOR SHALL INSPECT THE WORK PRIOR TO COVERING THE CONDUIT. CITY PARKS AND RECREATION DEPARTMENT SHALL CONFIRM OPERATION OF THE FACILITIES PRIOR TO ACCEPTANCE OF THE WORK.
5. CONDUIT AND WIRING SIZE ARE UNKNOWN. CONTRACTOR TO PERFORM PRELIMINARY INVESTIGATION TO DETERMINE THE TYPE AND SIZE OF EXISTING MATERIALS AND SHOULD INSTALL MATERIALS OF THE SAME KIND.

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.
DATE: 7/28/2022 BY: [Signature]



GENERAL NOTES:

1. INSTALL CONCRETE MOW STRIP ON ALL NEW AND REHABILITATED MANHOLES PER CITY OF ROCKWALL STD. DWG. R-5180. INSTALL RIM ELEVATION ON NEW MANHOLES AS SHOWN IN PLANS.
2. CONTRACTOR SHALL PROTECT ALL TREES NOT MARKED FOR REMOVAL.
3. ABANDONED WASTEWATER PIPE MAY BE LOCATED IN AREA OF PROPOSED WASTEWATER OPEN-CUT TRENCH INSTALLATION. IF ENCOUNTERED DURING CONSTRUCTION, CONTACT THE CITY OF ROCKWALL ENGINEERING DEPARTMENT AND THE ENGINEER PRIOR TO REMOVAL.
4. CONTACT CITY PARKS AND REC DEPARTMENT AT NOTICE TO PROCEED TO COMMUNICATE SCHEDULING. CONTACT AGAIN 1 WEEK IN ADVANCE OF WORK. CONTACT IF ANY UNDERGROUND UTILITY IS ENCOUNTERED DURING CONSTRUCTION IN PARK PROPERTY. CONTACT: TRAVIS SALES, DIRECTOR OF PARKS RECREATION AND ANIMAL SERVICES, (972) 772-6467.
5. CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAVEL AT A MINIMUM ALONG THE PARK DRIVEWAY AT ALL TIMES. WHEN WORK IS NOT ACTIVE, BOTH LANES SHALL REMAIN OPEN.
6. CONTRACTOR SHALL INSTALL SIDEWALK CLOSURE SIGNS AND TEMPORARY CONSTRUCTION FENCING AS NECESSARY TO PREVENT THE PUBLIC FROM ENTERING THE WORK AREA.
7. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE PAVEMENT IN THE DRIVEWAY AND PARKING LOT NOT SHOWN TO BE REMOVED AND REPLACED. IF DAMAGED, CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER.
8. CONTRACTOR TO RE-ESTABLISH EXISTING DRAINAGE DITCHES TO EXISTING GRADES.
9. ALL VEGETATION DISTURBED IN HARRY MYERS PARK PROPERTY SHALL BE RESTORED BY SODDING.
10. BYPASS PUMPING INFORMATION:
• CURRENT AVERAGE DAY FLOW: 0.458 MGD
• CURRENT PEAK FLOW: 1.83 MGD



**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

**15" & 16" WASTEWATER LINE
PLAN AND PROFILE
STA 4+00 TO 7+00
SEGMENT 8**

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

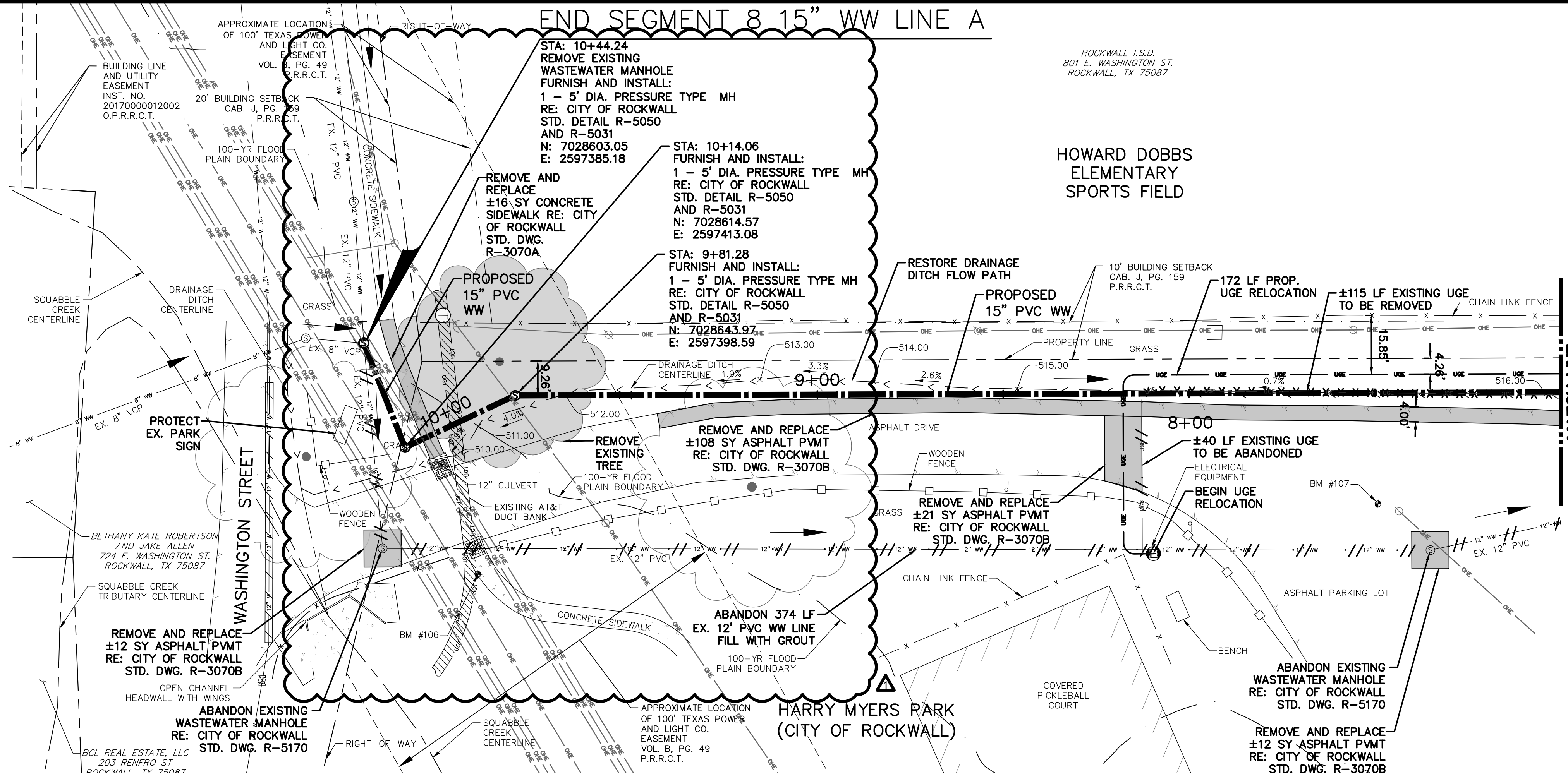
SHEET
S5

Kimley-Horn
13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 (972) 772-1300
NO. 1
REVISION
JAS
DATE 03/25/2022

K:\DAL_Municipal\064474704 - Rockwall County Jail WW&S_Design\DWG\Sheets\Plan and Profile\Plan and Profile Sheets.dwg

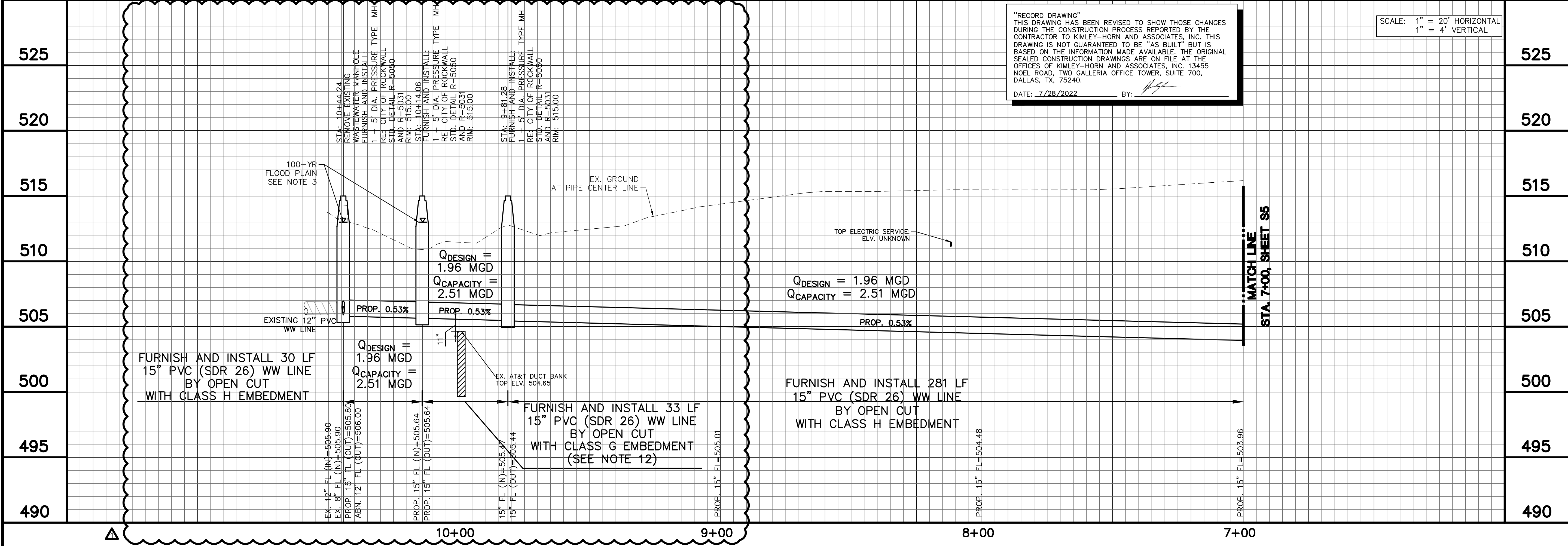
ELECTRIC RELOCATION NOTES:

- ELECTRIC LINE RELOCATION SHALL BE PERFORMED PRIOR TO WASTEWATER CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING AN ELECTRICAL PERMIT FROM THE CITY OF ROCKWALL BUILDING INSPECTION DEPARTMENT FOR THIS ELECTRICAL LINE RELOCATION. PER A CONVERSATION WITH CRAIG FOSHEE ON 1/15/2021, THIS PERMIT CAN BE APPLIED FOR "OVER THE COUNTER" WITH THESE SHEETS. NO FEES ARE REQUIRED FOR THE PERMIT APPLICATION.
- CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OF CITY OF ROCKWALL CODE REQUIREMENTS CONCERNING CONDUIT AND WIRING MATERIALS, BURY DEPTH, TRENCH PREPARATION, ETC.
- A CITY BUILDING INSPECTOR SHALL INSPECT THE WORK PRIOR TO COVERING THE CONDUIT. CITY PARKS AND RECREATION DEPARTMENT SHALL CONFIRM OPERATION OF THE FACILITIES PRIOR TO ACCEPTANCE OF THE WORK.
- CONDUIT AND WIRING SIZE ARE UNKNOWN. CONTRACTOR TO PERFORM PRELIMINARY INVESTIGATION TO DETERMINE THE TYPE AND SIZE OF EXISTING MATERIALS AND SHOULD INSTALL MATERIALS OF THE SAME KIND.



GENERAL NOTES:

- INSTALL CONCRETE MOW STRIP ON ALL NEW AND REHABILITATED MANHOLES PER CITY OF ROCKWALL STD. DWG. R-5180. INSTALL RIM ELEVATION ON NEW MANHOLES AS SHOWN IN PLANS.
- CONTRACTOR SHALL PROTECT ALL TREES NOT MARKED FOR REMOVAL.
- CITY OF ROCKWALL FLOOD PLAIN STUDY: INTERPOLATED 100-YR FLOOD PLAIN ELEVATION = 513.0. THIS ELEVATION WAS INTERPOLATED BETWEEN CROSS SECTION # 4621.7 (513.08') AND CROSS SECTION # 154.8 (513.00')
- ABANDONED WASTEWATER PIPE MAY BE LOCATED IN AREA OF PROPOSED WASTEWATER OPEN-CUT TRENCH INSTALLATION. IF ENCOUNTERED DURING CONSTRUCTION, CONTACT THE CITY OF ROCKWALL ENGINEERING DEPARTMENT AND THE ENGINEER PRIOR TO REMOVAL.
- CONTACT CITY PARKS AND REC DEPARTMENT AT NOTICE TO PROCEED TO COMMUNICATE SCHEDULING. CONTACT AGAIN 1 WEEK IN ADVANCE OF WORK. CONTACT IF ANY UNDERGROUND UTILITY IS ENCOUNTERED DURING CONSTRUCTION IN PARK PROPERTY. CONTACT: TRAVIS SALES, DIRECTOR OF PARKS RECREATION AND ANIMAL SERVICES, (972) 772-6467.
- CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAVEL AT A MINIMUM ALONG THE PARK DRIVEWAY AT ALL TIMES. WHEN WORK IS NOT ACTIVE, BOTH LANES SHALL REMAIN OPEN.
- CONTRACTOR SHALL INSTALL SIDEWALK CLOSURE SIGNS AND TEMPORARY CONSTRUCTION FENCING AS NECESSARY TO PREVENT THE PUBLIC FROM ENTERING THE WORK AREA.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE PAVEMENT IN THE DRIVEWAY AND PARKING LOT NOT SHOWN TO BE REMOVED AND REPLACED. IF DAMAGED, CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER.
- CONTRACTOR TO RE-ESTABLISH EXISTING DRAINAGE DITCHES TO EXISTING GRADES.
- ALL VEGETATION DISTURBED IN HARRY MYERS PARK PROPERTY AND CITY OF ROCKWALL RIGHT-OF-WAY SHALL BE RESTORED BY SODDING.
- BYPASS PUMPING INFORMATION:
 • CURRENT AVERAGE DAY FLOW: 0.458 MGD
 • CURRENT PEAK FLOW: 1.83 MGD
- CLASS G EMBEDMENT SHALL BE IN ACCORDANCE WITH CITY OF ROCKWALL STD. DWG R-3050. AT DUCT BANK CROSSING, CLASS B CONCRETE SHALL BE INSTALLED FROM SPRINGLINE OF WASTEWATER PIPE TO TOP OF DUCT BANK FOR A MINIMUM OF 2 FEET ON EITHER SIDE OF THE DUCT BANK CROSSING.



Kimley-Horn

13455 Noel Road, Suite 700, Dallas, TX 75240 (972) 772-1300

NO.	REVISION	DATE
1	REVISED ALIGNMENT TO AVOID DUCT BANK	JAS 08/17/2021

**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

**15" WASTEWATER LINE
PLAN AND PROFILE
STA 7+00 TO 10+30
SEGMENT 8**

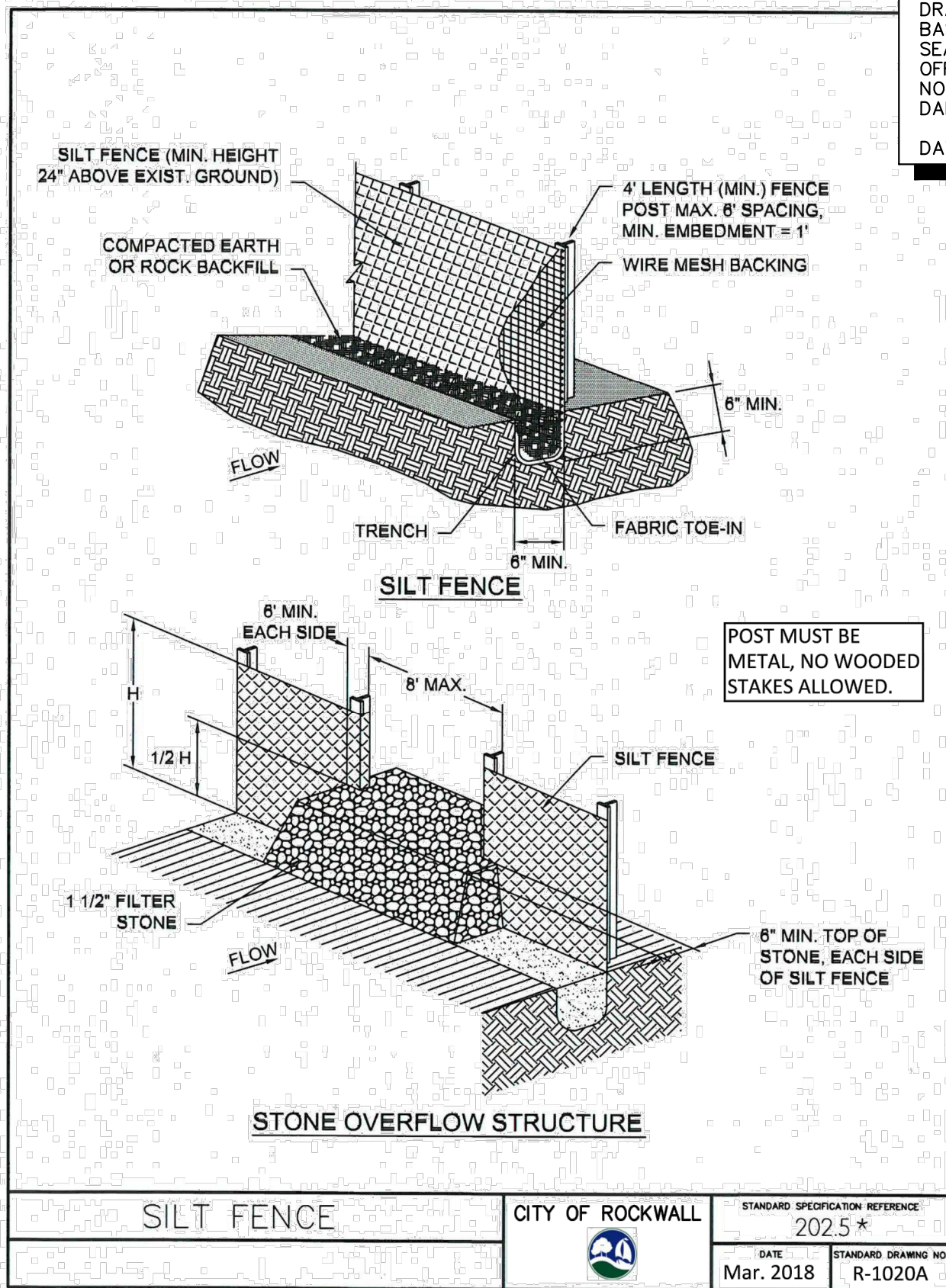
DATE: 2/11/2021
 DESIGN: JAS
 DRAWN: RHJ
 CHECKED: MSP
 KHA NO.: 064474704

SHEET

S6

K:\DAL_Municipal\064474704 - Rockwall County Jail WW8_Design\DWG\Sheets\Plan and Profile\Plan and Profile Sheets.dwg

K:\DAL_Municipal\064474704 - Rockwall County Jail_WW8_Design\DWG_Sheets\Details\CONSTRUCTION DETAILS.dwg



"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.

- SILT FENCE GENERAL NOTES:**
- POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
 - THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
 - THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
 - SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
 - INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
 - ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
 - FILTER STONE SHALL BE WRAPPED IN FILTER FABRIC AND BURIED SIX (6") INCHES MINIMUM.

- ROCK CHECK DAM GENERAL NOTES:**
- STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 1 1/2 TO 3 1/2 INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.
 - THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
 - WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
 - WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
 - FILTER STONE SHALL BE WRAPPED IN APPROPRIATE SIZED WIRE MESH TO CONTAIN STONE AND BURIED SIX (6") INCHES MINIMUM.

SILT FENCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.5 *
		DATE Mar. 2018
		STANDARD DRAWING NO. R-1020A

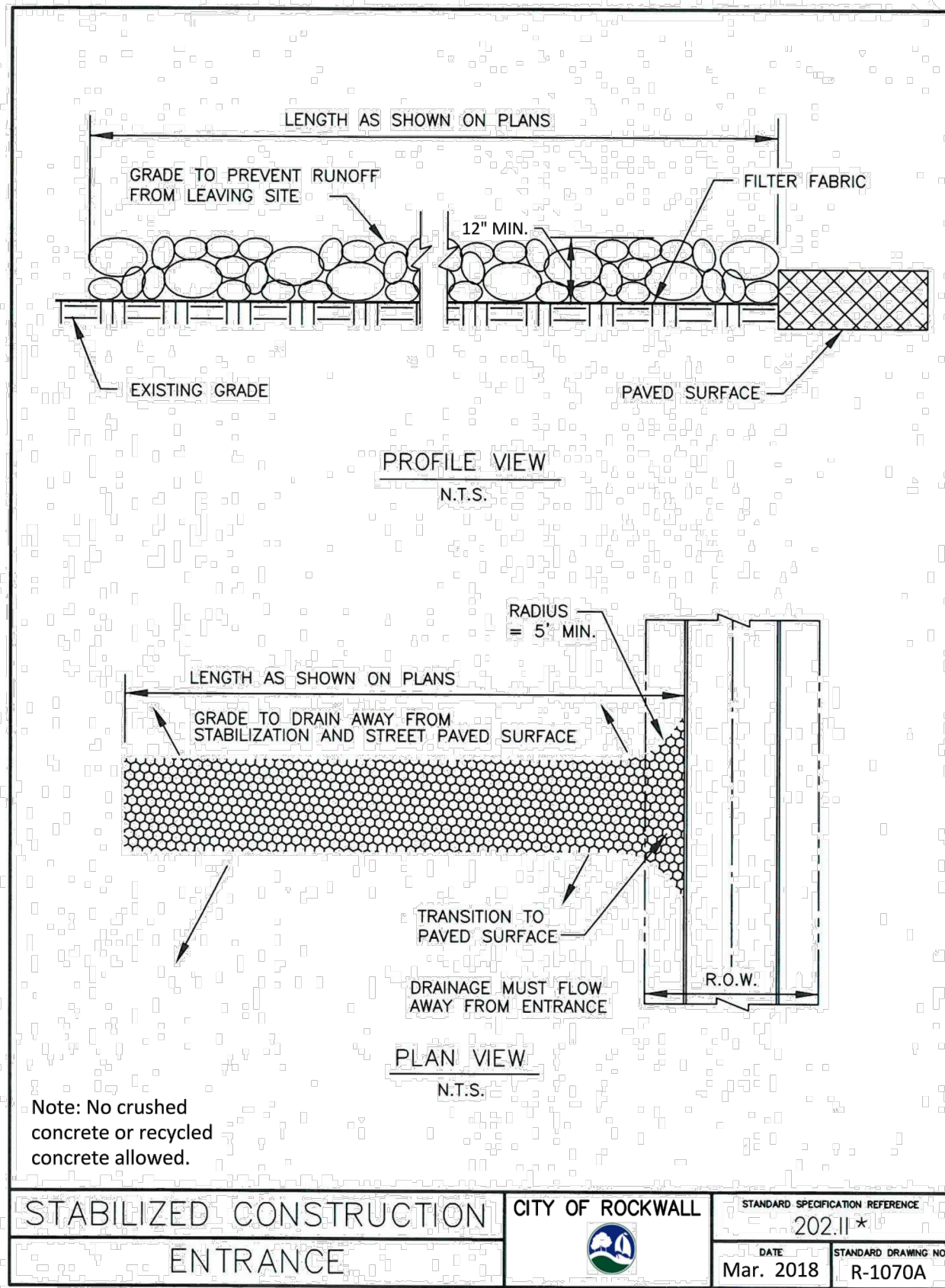
*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

SILT FENCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.5 *
		DATE Mar. 2018
		STANDARD DRAWING NO. R-1020B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

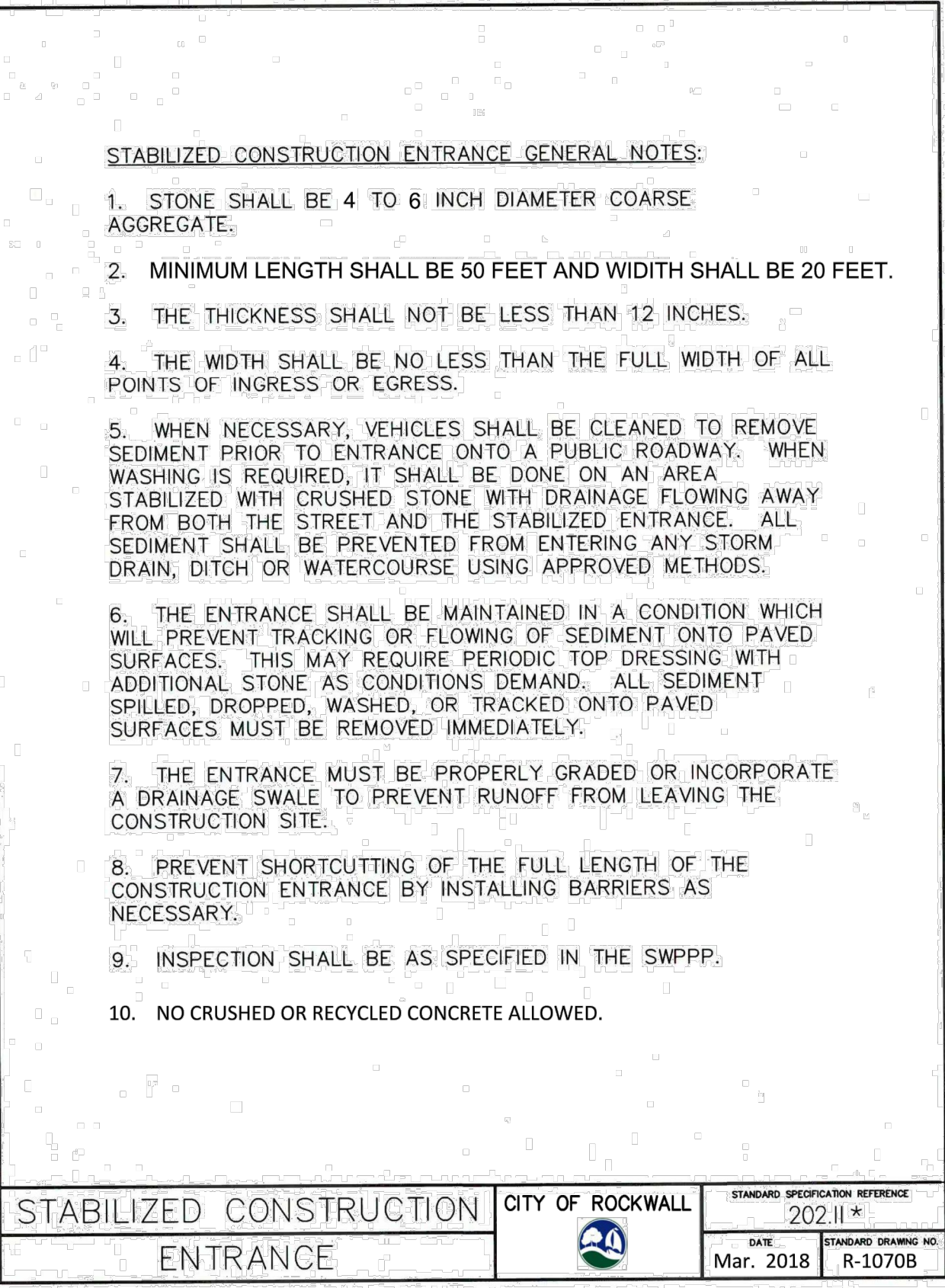
ROCK CHECK DAM	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.9 *
		DATE Mar. 2018
		STANDARD DRAWING NO. R-1060B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.



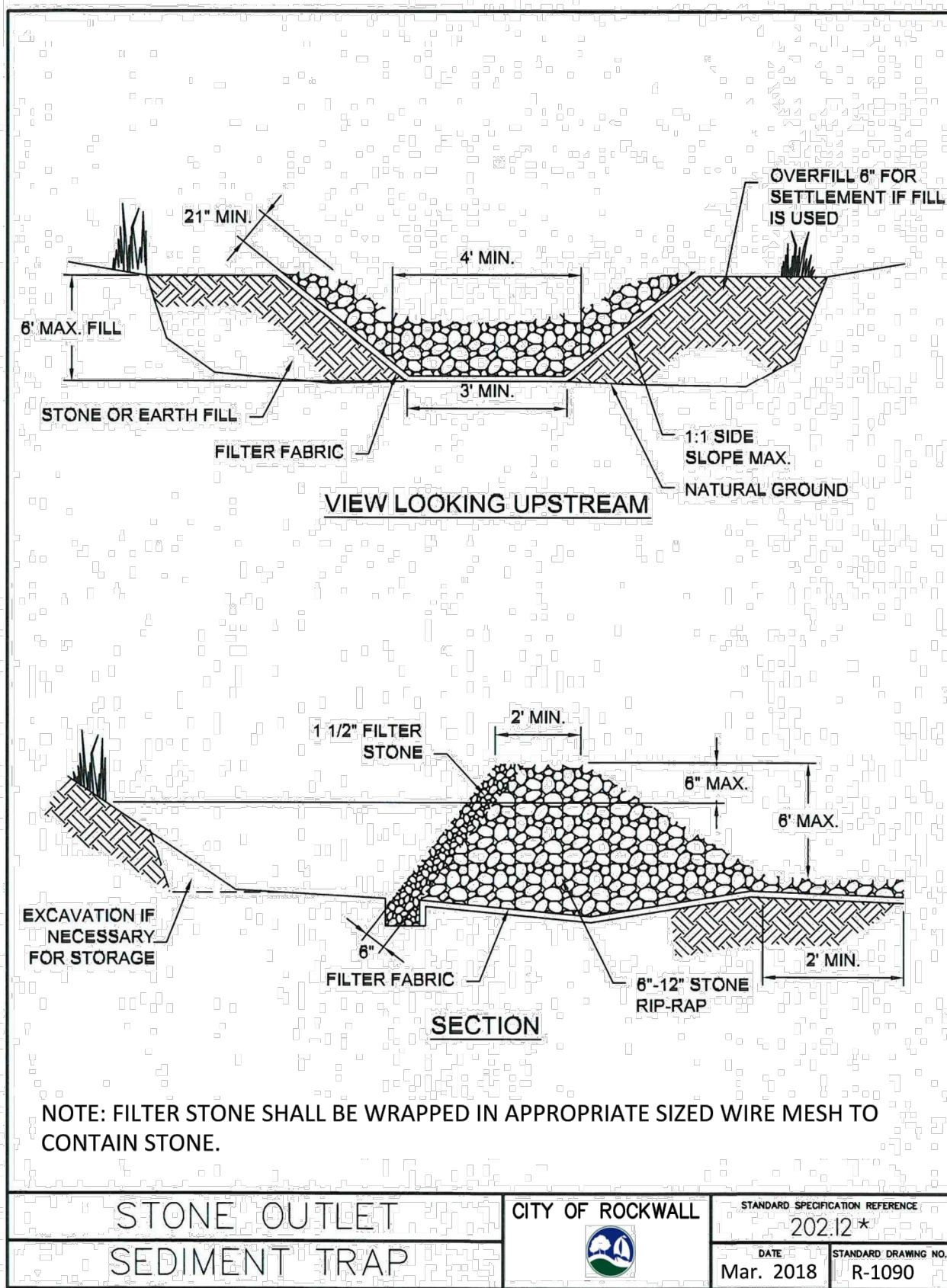
STABILIZED CONSTRUCTION ENTRANCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.11 *
		DATE Mar. 2018
		STANDARD DRAWING NO. R-1070A

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.



STABILIZED CONSTRUCTION ENTRANCE	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.11 *
		DATE Mar. 2018
		STANDARD DRAWING NO. R-1070B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.



STONE OUTLET SEDIMENT TRAP	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE 202.12 *
		DATE Mar. 2018
		STANDARD DRAWING NO. R-1090

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS

CITY OF ROCKWALL
EROSION AND
SEDIMENT CONTROL
DETAILS

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

SHEET
D1

Kimley-Horn

13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 972-770-1300

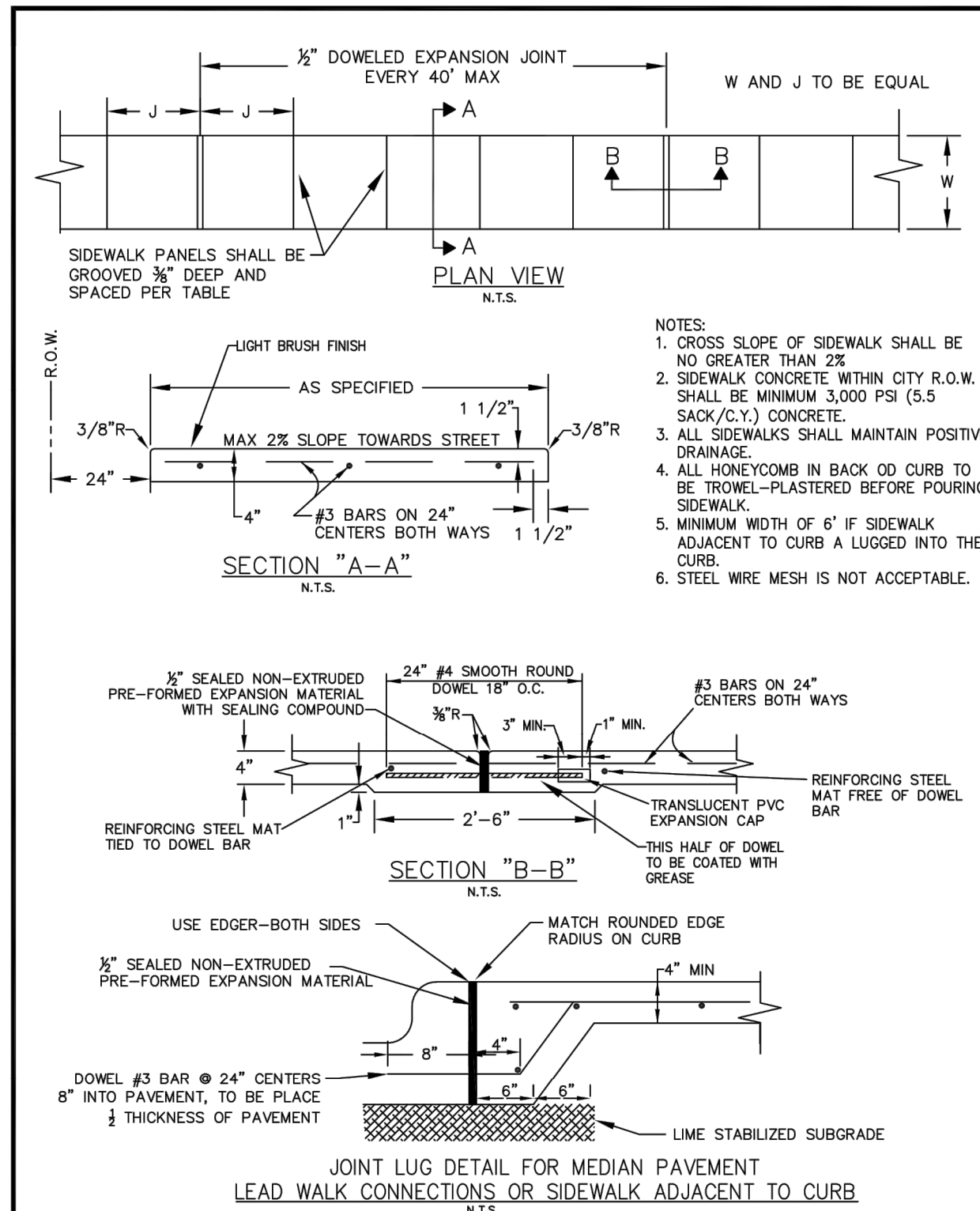
No.	Revision	By	Date

8" MINIMUM CRUSHED ROCK COMPACTED TO 98% MAXIMUM DRY DENSITY (PER TXDOT ITEM 247, GRADE 1 OR GRADE 2)

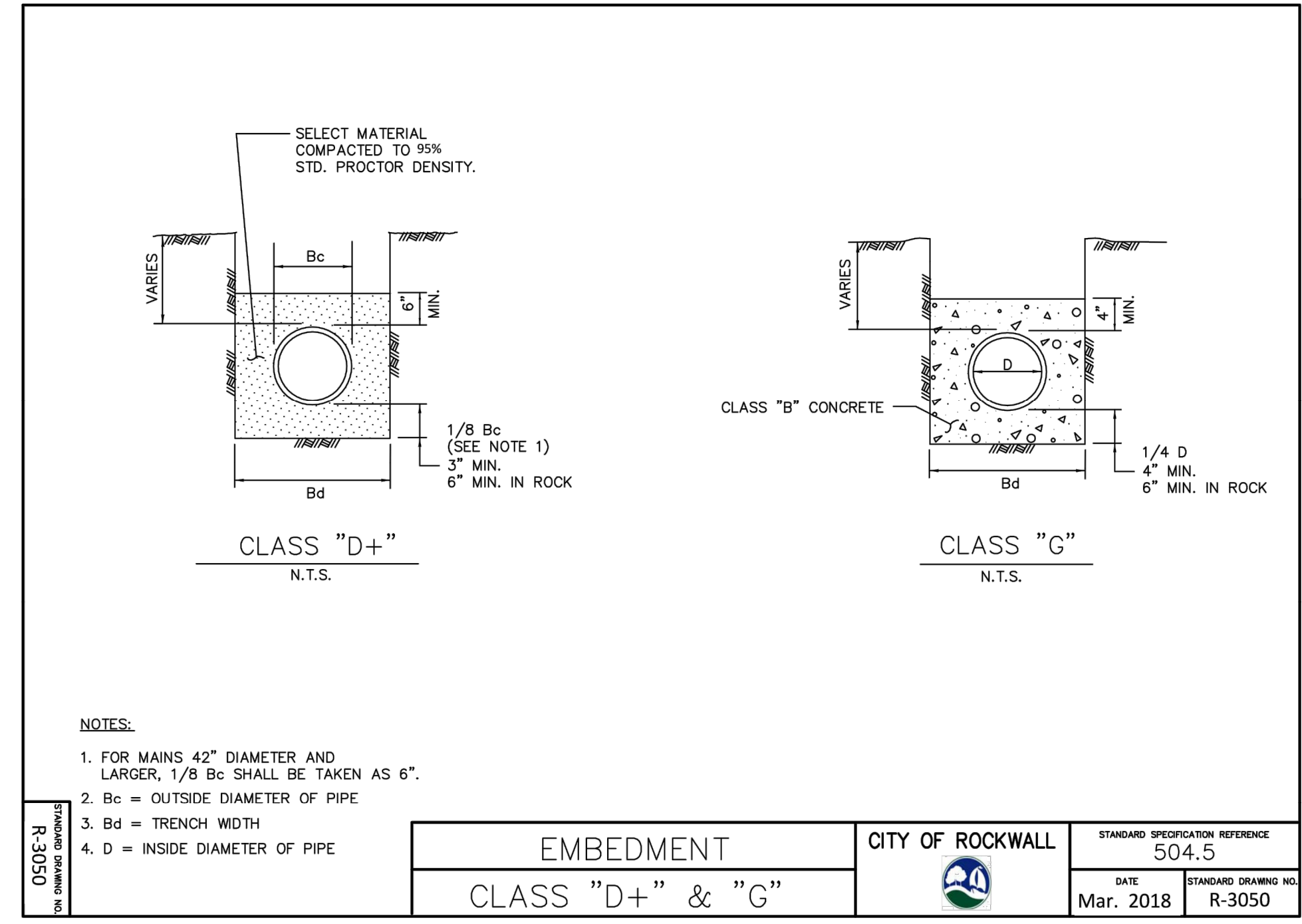
6" MINIMUM RE-COMPACTED SUBGRADE SUBGRADE COMPACTED TO 98% MAXIMUM DRY DENSITY

NOTES:
1. FLEXBASE PAVEMENT SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

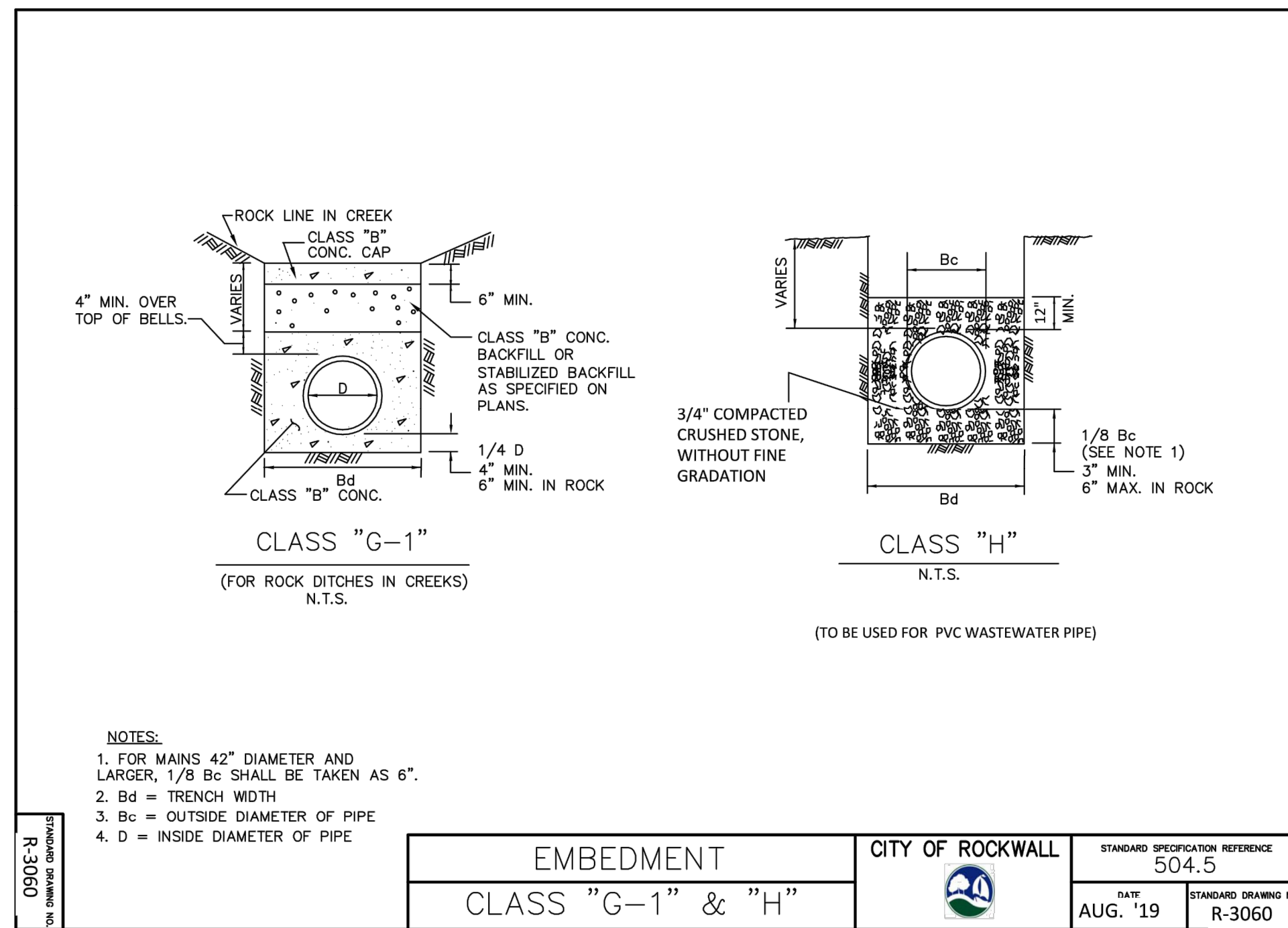
FLEXBASE PAVEMENT	CITY OF ROCKWALL	REVISED TO MEET REQUIREMENTS OF THIS PROJECT - PER JAS ON 2/11/2021
SURFACE DETAIL		DATE: OCT. '15 DRAWING NO: R-2042



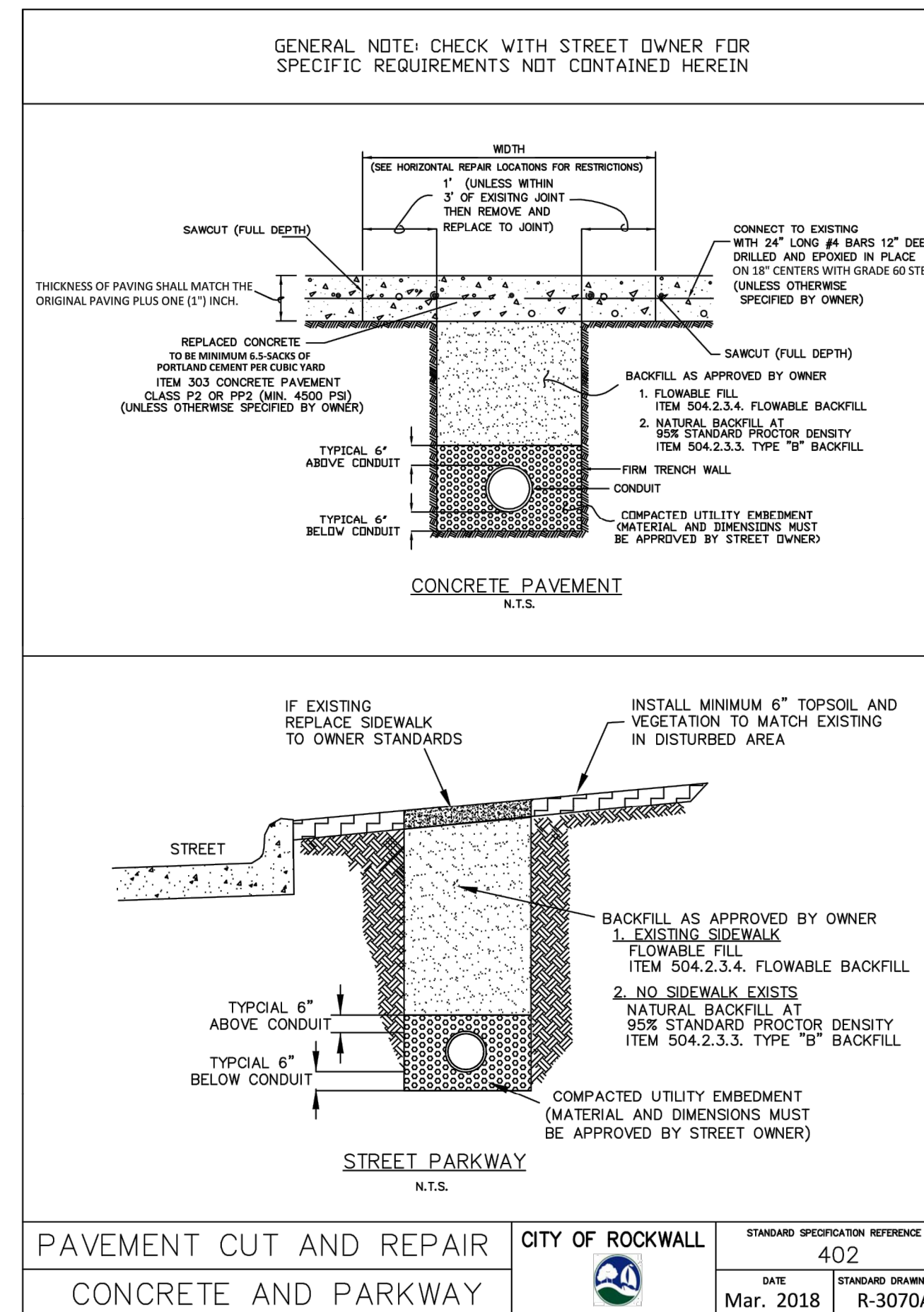
REINFORCED CONCRETE SIDEWALKS	CITY OF ROCKWALL	DATE: AUG. '19 DRAWING NO: R-2170
JOINTS AND SPACING		



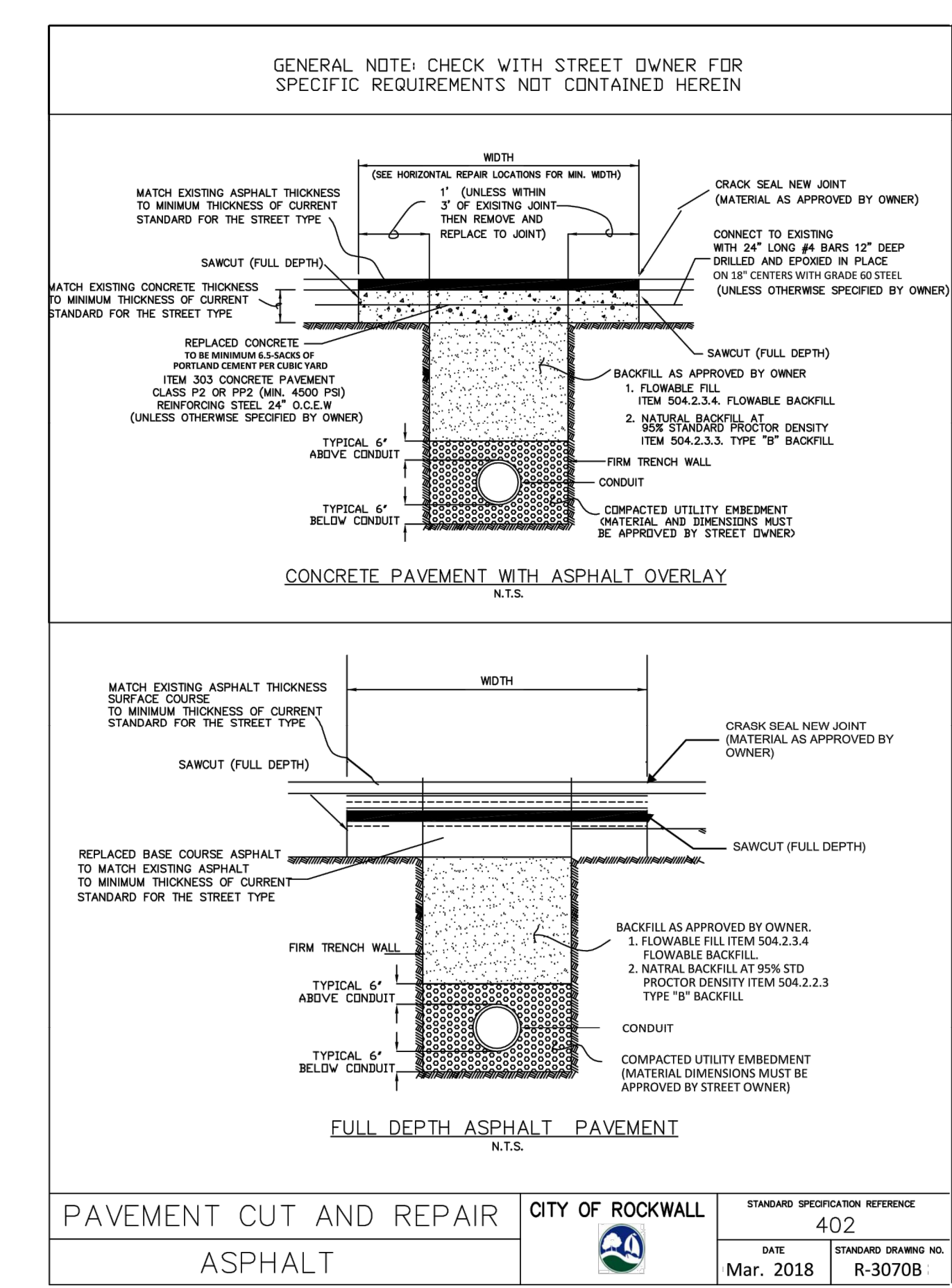
EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE: 504.5
CLASS "D+" & "G"		DATE: Mar. 2018 STANDARD DRAWING NO: R-3050



EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE: 504.5
CLASS "G-1" & "H"		DATE: AUG. '19 STANDARD DRAWING NO: R-3060



PAVEMENT CUT AND REPAIR	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE: 402
CONCRETE AND PARKWAY		DATE: Mar. 2018 STANDARD DRAWING NO: R-3070A



PAVEMENT CUT AND REPAIR	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE: 402
ASPHALT		DATE: Mar. 2018 STANDARD DRAWING NO: R-3070B

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.

DATE: 7/28/2022 BY: *[Signature]*

K:\DAL_Municipal\064474704 - Rockwall County Jail W\8_Design\DWG\Sheets\Details\CONSTRUCTION DETAILS.dwg

Kimley»Horn
13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 (972) 771-1300

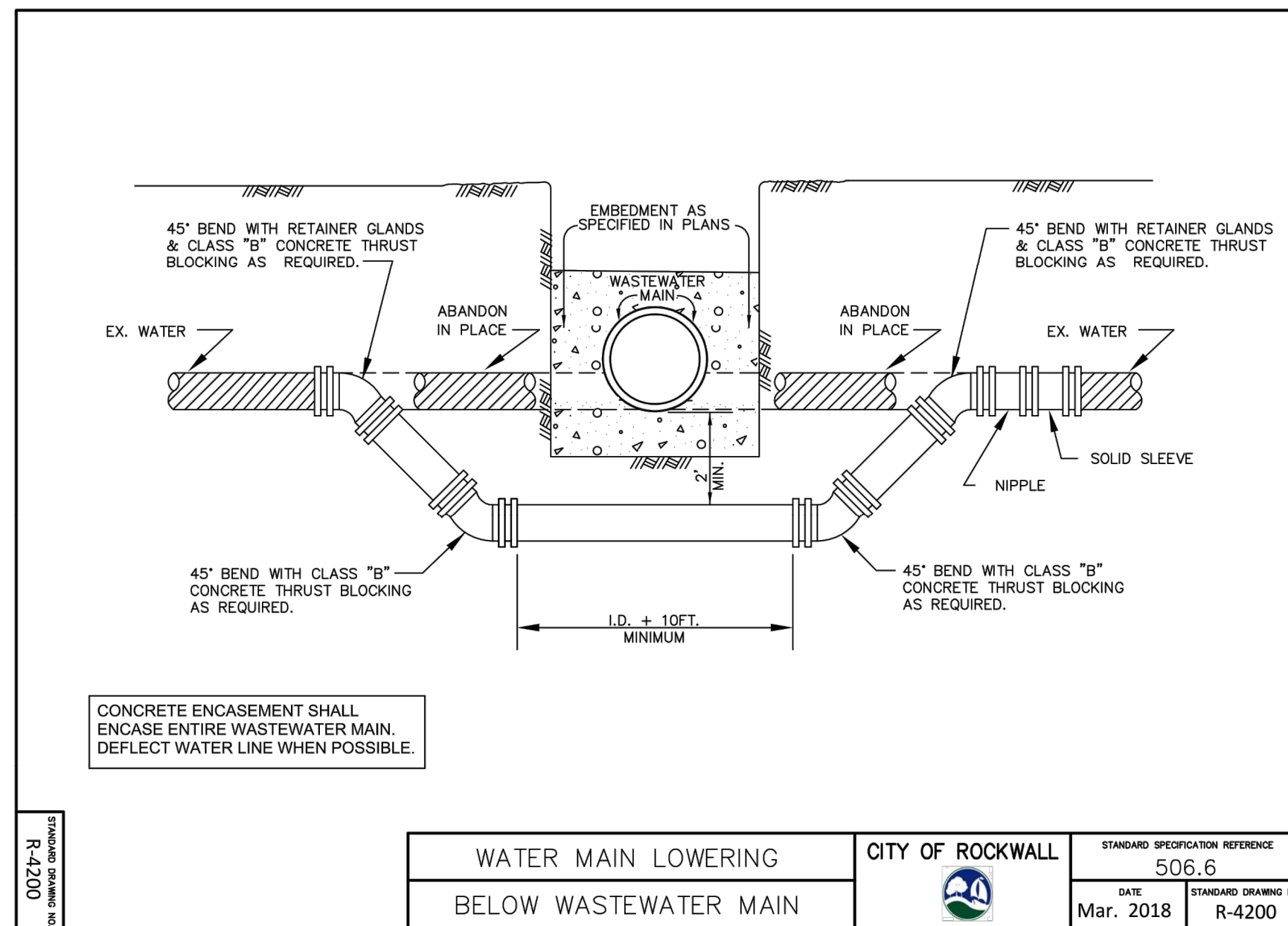
No.	Revision	By	Date

**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

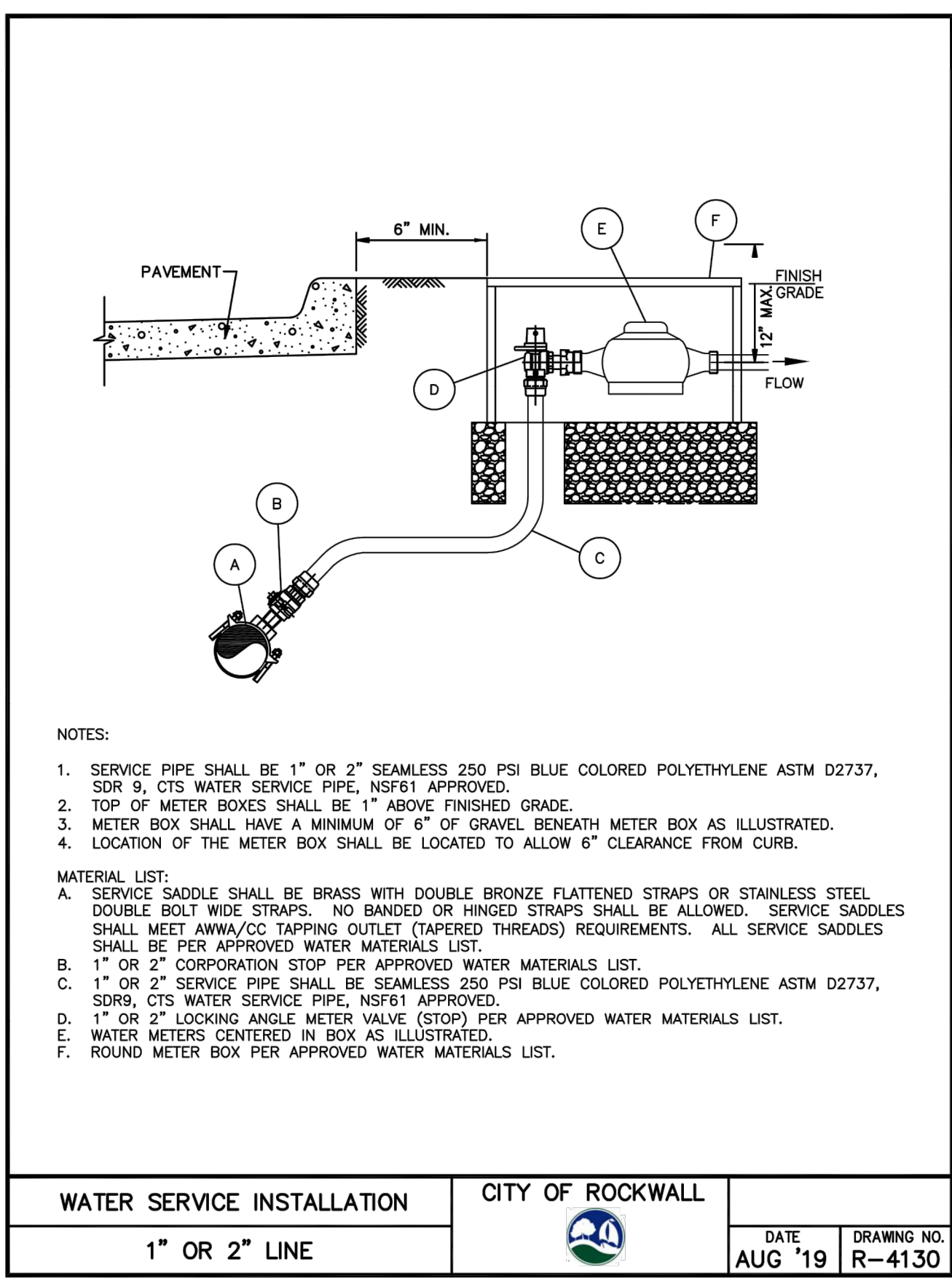
**CITY OF ROCKWALL
STANDARD
CONSTRUCTION
DETAILS**

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

K:\DAL_Municipal\064474704 - Rockwall County Jail_WW\8_Design\DWG\Sheets\Details\CONSTRUCTION DETAILS.dwg



WATER MAIN LOWERING	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE
BELOW WASTEWATER MAIN		506.6
		DATE
		Mar. 2018
		STANDARD DRAWING NO.
		R-4200



- NOTES:
- SERVICE PIPE SHALL BE 1" OR 2" SEAMLESS 250 PSI BLUE COLORED POLYETHYLENE ASTM D2737, SDR 9, CTS WATER SERVICE PIPE, NSF61 APPROVED.
 - TOP OF METER BOXES SHALL BE 1" ABOVE FINISHED GRADE.
 - METER BOX SHALL HAVE A MINIMUM OF 6" OF GRAVEL BENEATH METER BOX AS ILLUSTRATED.
 - LOCATION OF THE METER BOX SHALL BE LOCATED TO ALLOW 6" CLEARANCE FROM CURB.
- MATERIAL LIST:
- SERVICE SADDLE SHALL BE BRASS WITH DOUBLE BRONZE FLATTENED STRAPS OR STAINLESS STEEL DOUBLE BOLT WIDE STRAPS. NO BANDED OR HINGED STRAPS SHALL BE ALLOWED. SERVICE SADDLES SHALL MEET AWWA/C2 TAPPING OUTLET (TAPERED THREADS) REQUIREMENTS. ALL SERVICE SADDLES SHALL BE PER APPROVED WATER MATERIALS LIST.
 - 1" OR 2" CORPORATION STOP PER APPROVED WATER MATERIALS LIST.
 - 1" OR 2" SERVICE PIPE SHALL BE SEAMLESS 250 PSI BLUE COLORED POLYETHYLENE ASTM D2737, SDR9, CTS WATER SERVICE PIPE, NSF61 APPROVED.
 - 1" OR 2" LOCKING ANGLE METER VALVE (STOP) PER APPROVED WATER MATERIALS LIST.
 - WATER METERS CENTERED IN BOX AS ILLUSTRATED.
 - ROUND METER BOX PER APPROVED WATER MATERIALS LIST.

WATER SERVICE INSTALLATION	CITY OF ROCKWALL	DATE	DRAWING NO.
1" OR 2" LINE		AUG '19	R-4130

"RECORD DRAWING"
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 DATE: 7/28/2022 BY:

Kimley»Horn
 13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 972.971-1300
 No. _____ By _____
 Revision _____ Date _____

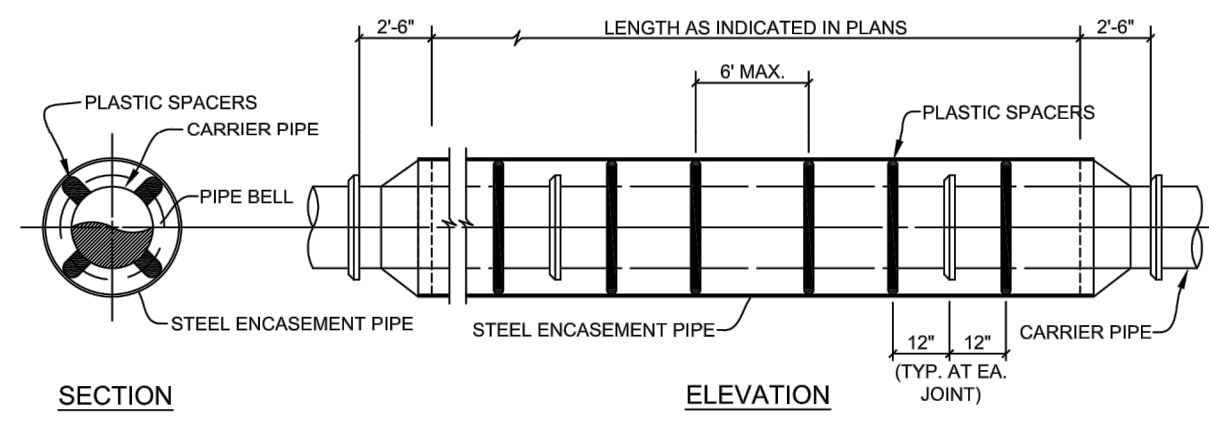
**ROCKWALL COUNTY
 JAIL DOWNSTREAM
 WASTEWATER MAIN
 IMPROVEMENTS**

**CITY OF ROCKWALL
 STANDARD
 CONSTRUCTION
 DETAILS**

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

"RECORD DRAWING"
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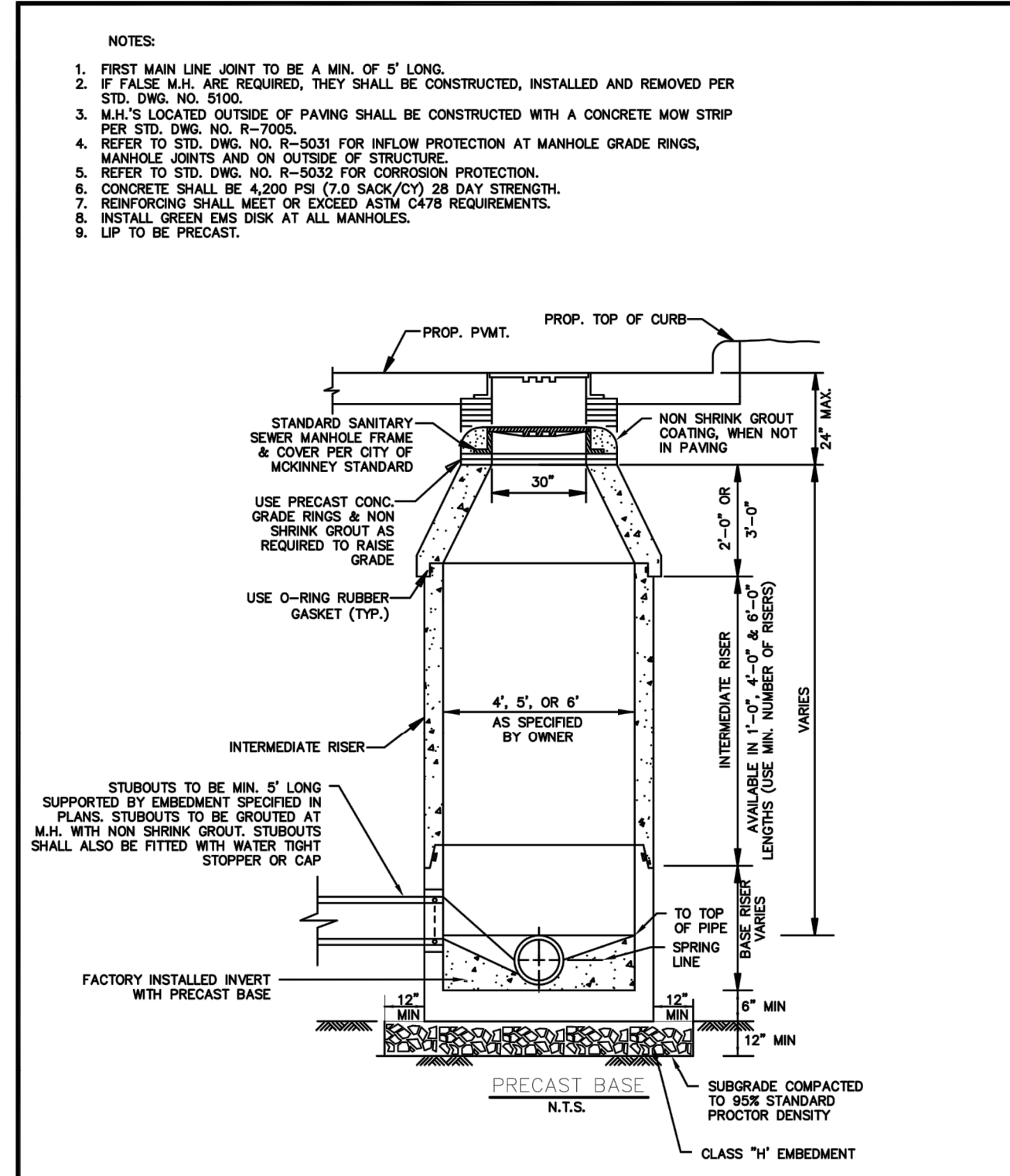
DATE: 7/28/2022 BY: *[Signature]*



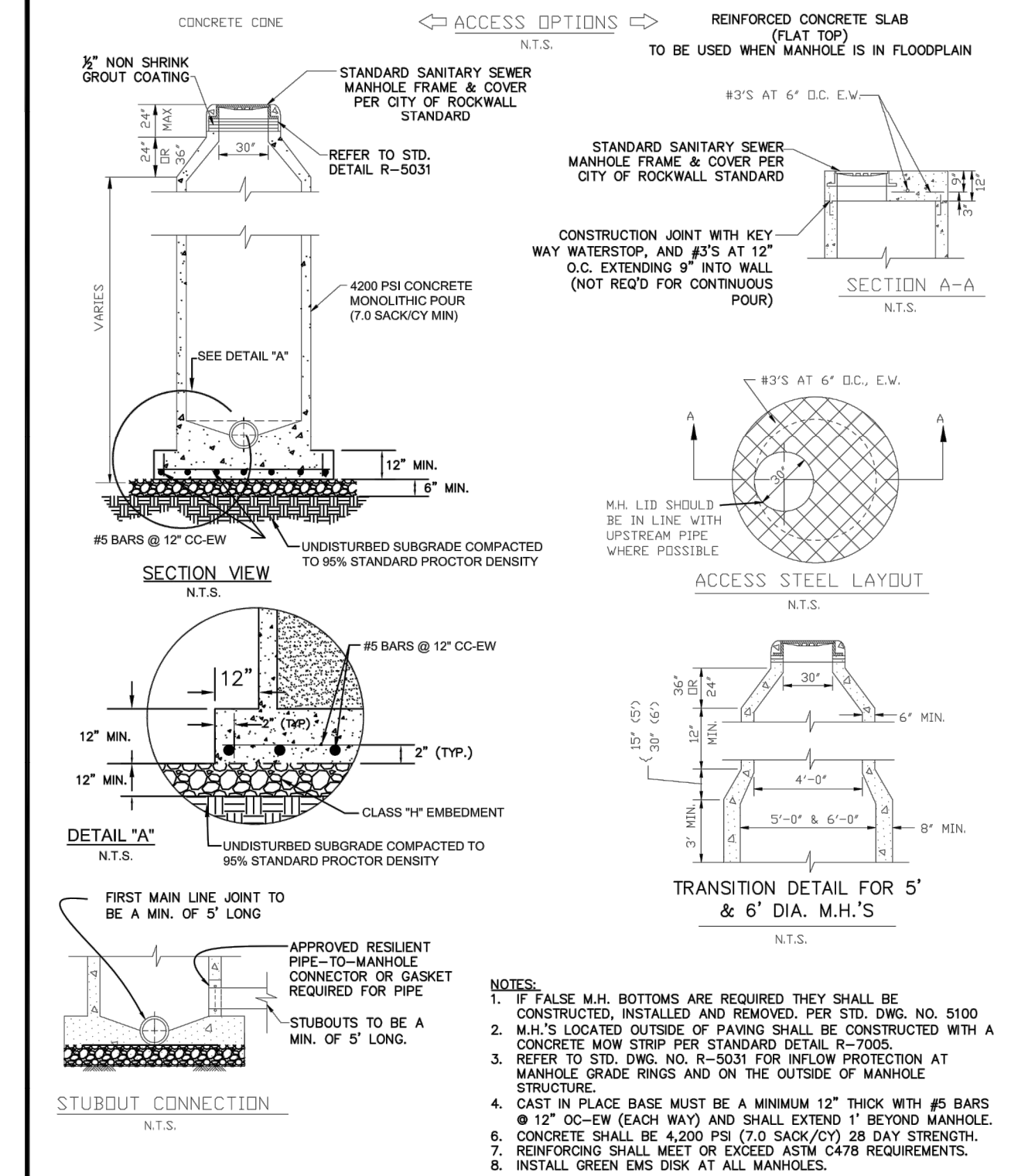
SECTION
ENCASEMENT PIPE
NO SCALE

- NOTES:
1. PREFABRICATED PLASTIC SPACES SHALL BE RACI NORTH AMERICA OR APPROVED EQUAL. FOR THE SPECIFIC APPLICATION AS RECOMMENDED BY THE MANUFACTURER.
 2. CONTRACTOR SHALL PROVIDE SUPPORT UNDER CARRIER PIPE TO HAVE A MIN. 1" CLEARANCE BETWEEN PIPE BELL AND ENCASEMENT PIPE.
 3. ENDS OF ENCASEMENT PIPE SHALL HAVE END SEALS INSTALLED PER MANUFACTURER'S REQUIREMENTS. END SEALS SHALL BE CCI MODEL ESW WRAP-AROUND BY CCI PIPELINE SYSTEMS OR APPROVED EQUAL.
 4. MINIMUM THICKNESS OF ENCASEMENT PIPE SHALL BE 0.3125" FOR 16" PIPE, AND 0.375" FOR 20" PIPE.
 5. STEEL ENCASEMENT PIPE SHALL CONFORM TO AWWA C-200. PIPE SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-570 FROM STEEL PLATES HAVING MINIMUM YIELD STRENGTH 36,000 PSI.
 6. STEEL ENCASEMENT PIPE SHALL BE PAINTED INSIDE AND OUTSIDE WITH TWO COATS OF TNEMEC, HB TNEMECOL, SERIES 46465 COAL TAR OR CITY APPROVED EQUIVALENT PRIOR TO DELIVERY TO THE JOB SITE. MINIMUM COATING INSIDE AND OUTSIDE SHALL BE 12-MILS DRY FILM THICKNESS (DFT) PER EACH COAT.
 7. ENCASEMENT PIPE SHALL BE FIELD WELDED IN ACCORDANCE WITH AWWA C-206. WELDED JOINTS SHALL BE WIRE BRUSHED AND PAINTED WITH ONE COAT OF TNEMEC, OMNITHANE SERIES 530, 2.5-MILS DRY FILM THICKNESS 90FT OR CITY APPROVED EQUIVALENT.
 8. STEEL ENCASEMENT DIAMETERS AS SHOWN ON PLANS REFER TO THE MINIMUM INSIDE DIAMETER

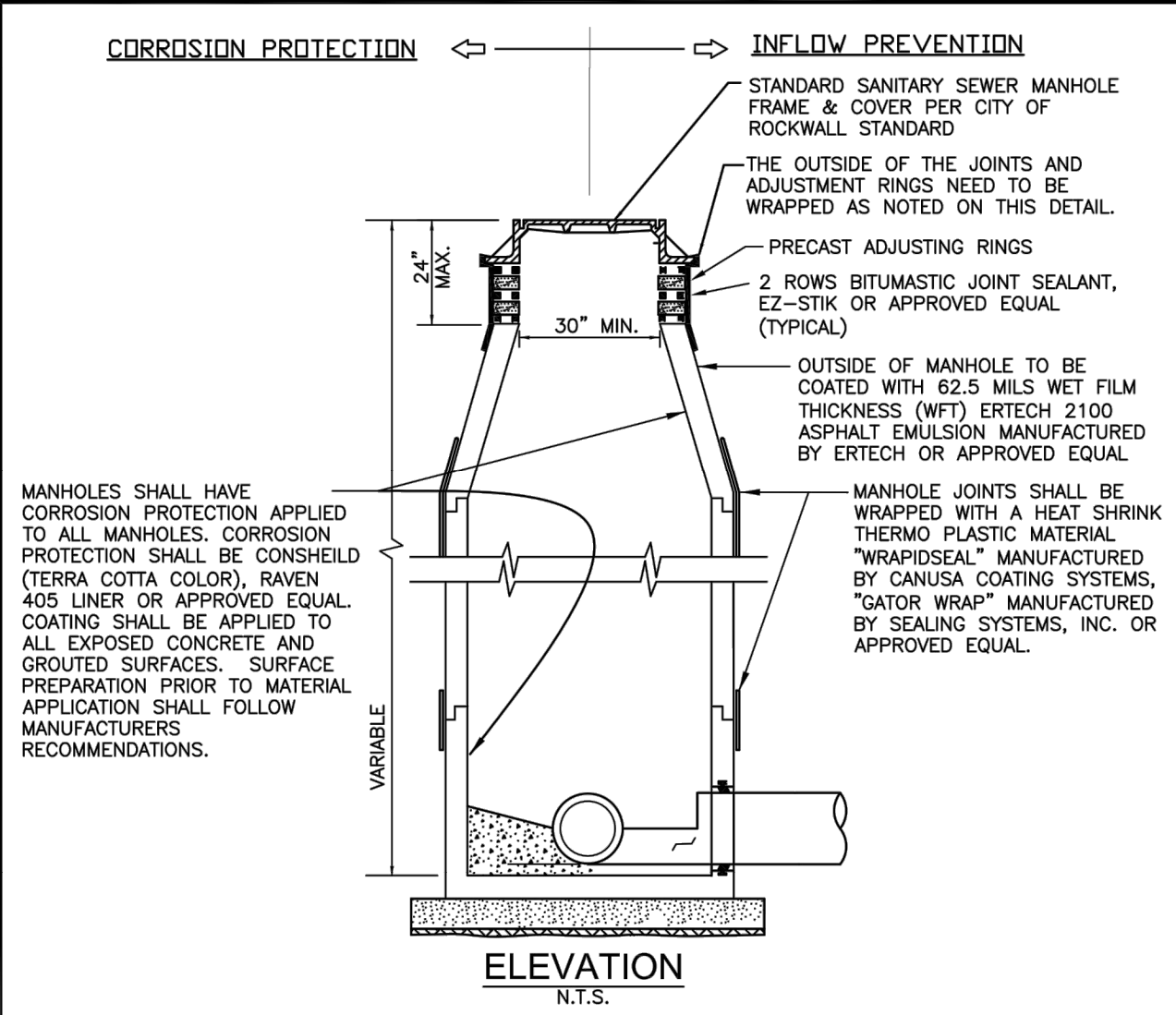
UNDERGROUND CONDUIT	CITY OF ROCKWALL	REVISED TO MEET REQUIREMENTS OF THIS PROJECT PER JAS ON 1/18/2021
STEEL ENCASEMENT PIPE		DATE: OCT. '17 DRAWING NO: R-3090



WASTEWATER MANHOLE	CITY OF ROCKWALL	DATE: AUG '19 DRAWING NO: R-5020
PRECAST		

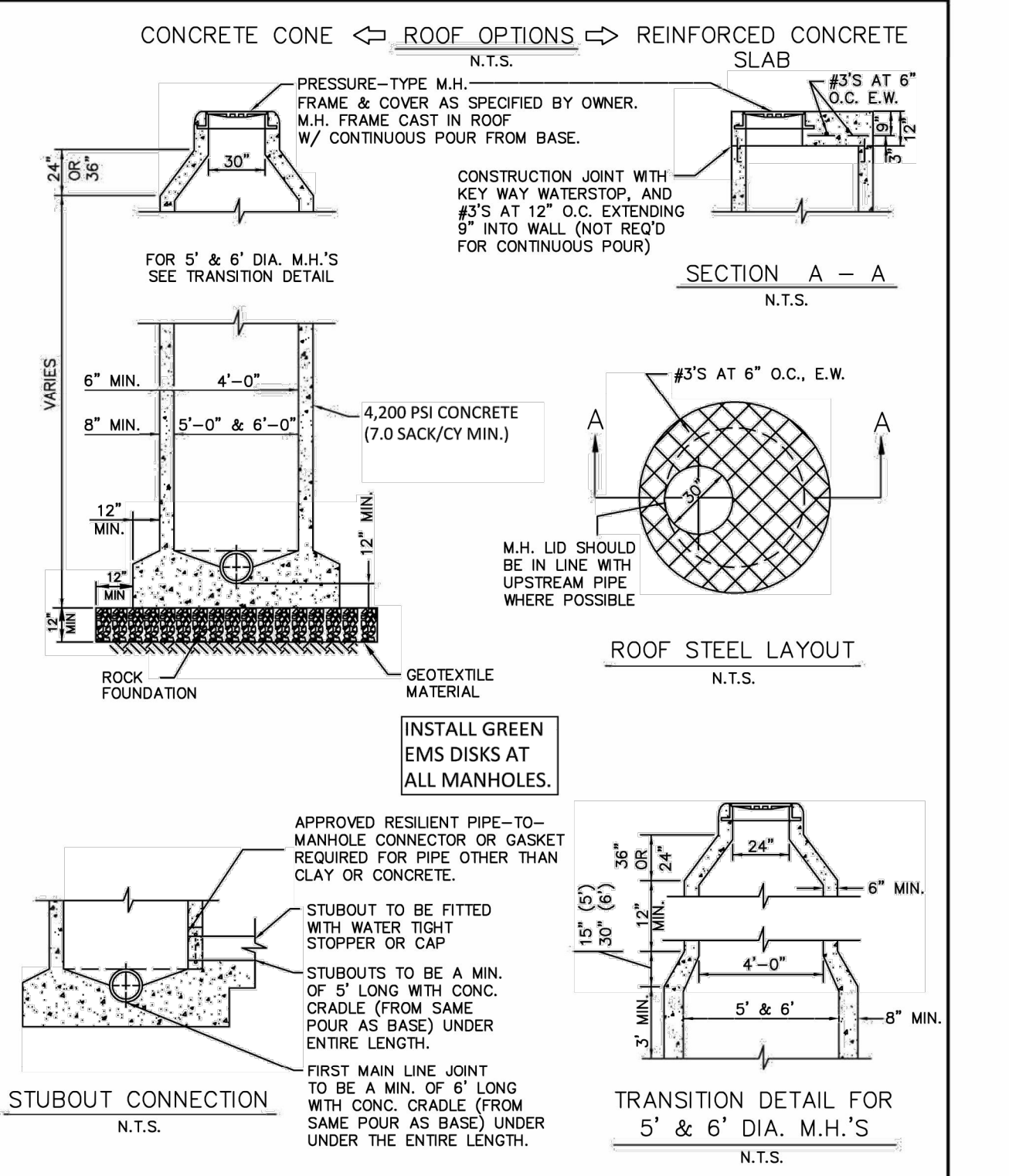


WASTEWATER MANHOLE	CITY OF ROCKWALL	DATE: AUG '19 DRAWING NO: R-5030
CAST-IN-PLACE		

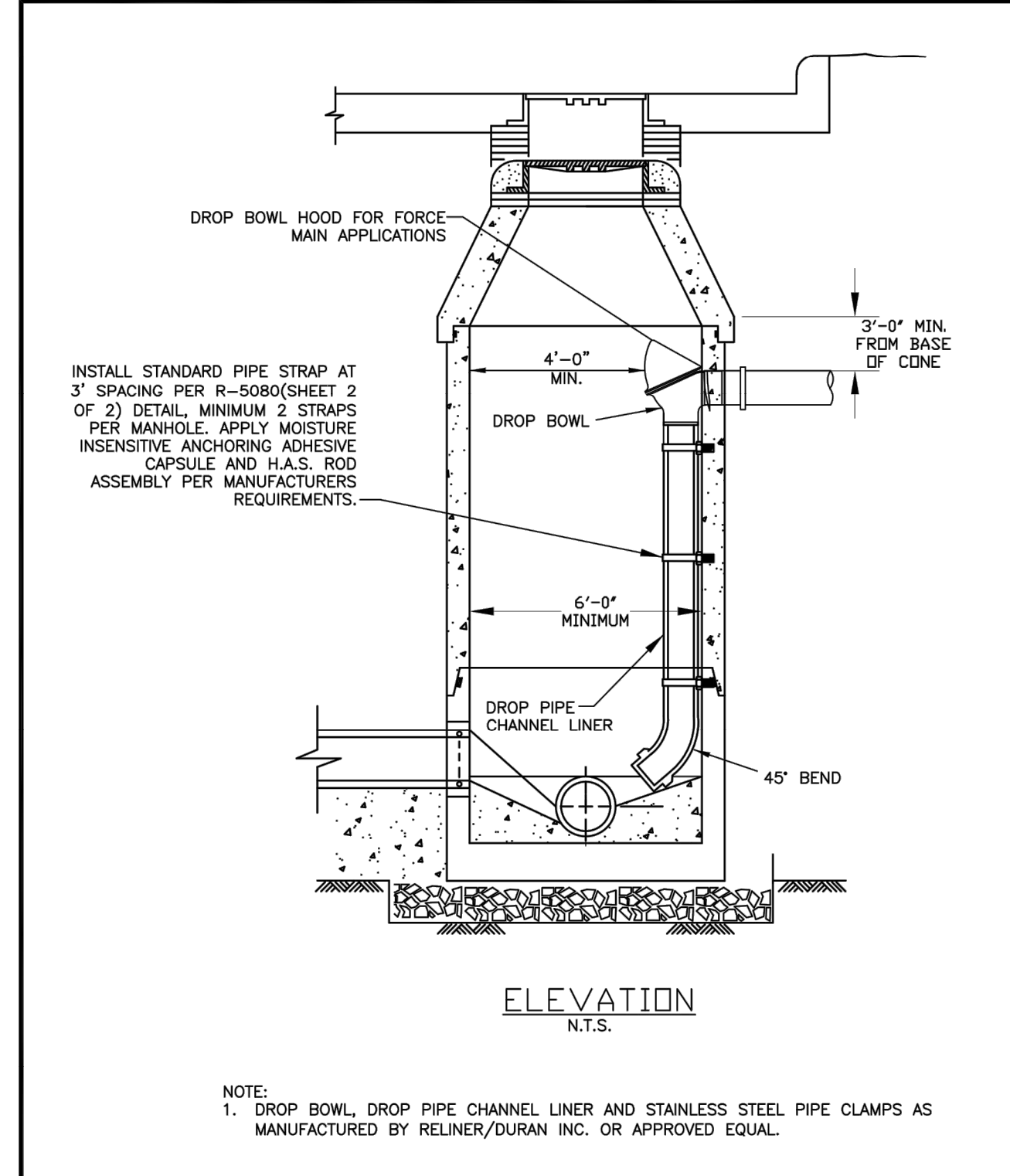


- MANHOLES SHALL HAVE CORROSION PROTECTION APPLIED TO ALL MANHOLES. CORROSION PROTECTION SHALL BE CONSIDERED (TERRA COTTA COLOR), RAVEN 405 LINER OR APPROVED EQUAL COATING SHALL BE APPLIED TO ALL EXPOSED CONCRETE AND GROUTED SURFACES. SURFACE PREPARATION PRIOR TO MATERIAL APPLICATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- MANHOLE JOINTS SHALL BE WRAPPED WITH A HEAT SHRINK THERMO PLASTIC MATERIAL "WRAPSEAL" MANUFACTURED BY CANUSA COATING SYSTEMS, "GATOR WRAP" MANUFACTURED BY SEALING SYSTEMS, INC. OR APPROVED EQUAL.
- INFLOW PREVENTION NOTES:
1. REQUIRED ON ALL SANITARY SEWER MANHOLES AND LIFT STATION WET WELLS AND VALVE WELLS.
- CORROSION PREVENTION NOTES:
1. TO CORROSION PROTECTIVE COATING PROCESS, PRESSURE WASH AND CLEAN STRUCTURE. FILL BUG HOLES, JOINTS, HONEYCOMBS AND AROUND PIPE PENETRATIONS WITH A CEMENTITIOUS REPAIR MATERIAL (CRM) AS NEEDED. USE STRONG SEAL MS2C MANUFACTURED BY THE STRONG COMPANY, INC. OR APPROVED EQUAL. THEN APPLY A MINIMUM OF 125 MILS (6 INCH) THICKNESS OF A POLYURETHANE COATING MATERIAL (EXISTING MANHOLES REQUIRE A MINIMUM OF 250 MILS THICKNESS OF POLYURETHANE COATING MATERIAL). FOR THE POLYURETHANE COATING MATERIAL USE RAVEN 405 LINER OR APPROVED EQUAL.
 2. ADDITIONAL CLEANING, PREPARATION, AND REPAIR METHODS MAY BE REQUIRED FOR EXISTING MANHOLES DEPENDING ON CONDITION ASSESSMENT OF THE MANHOLE. CONTACT ENGINEERING DIVISION FOR ADDITIONAL SPECIFICATIONS.
 3. SPARK TESTING IS REQUIRED FOR COATINGS. COST FOR TESTING IS SUBSIDIARY TO OTHER BID ITEMS. CITY INSPECTOR TO BE PRESENT FOR SPARK TESTING. CONTRACTOR TO PROVIDE WRITTEN SPARK TEST RESULTS TO CITY.
 4. EXISTING BRICK MANHOLES SHALL BE REPLACED.
 5. REQUIRED ON ALL WASTEWATER MANHOLES AND LIFT STATION WET WELLS.

WASTEWATER MANHOLE	CITY OF ROCKWALL	DATE: AUG '19 DRAWING NO: R-5031
INFLOW PREVENTION & CORROSION PROTECTION		



WASTEWATER MANHOLE	CITY OF ROCKWALL	DATE: Mar. 2018 DRAWING NO: R-5050
PRESSURE-TYPE		



WASTEWATER MANHOLE	CITY OF ROCKWALL	DATE: AUG '19 DRAWING NO: R-5080
DROP CONNECTIONS		

Kimley»Horn
13455 Noel Road, Two Galleria Office Tower, Suite 700, Dallas, TX 75240 (972) 771-1300
By: _____
Date: _____
Revision: _____
No. _____

**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

**CITY OF ROCKWALL
STANDARD
CONSTRUCTION
DETAILS**

DATE: 2/11/2021
DESIGN: JAS
DRAWN: RHJ
CHECKED: MSP
KHA NO.: 064474704

SHEET
D4

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*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

HVA ADHESIVE CAPSULE ANCHOR

- DRILL HOLES WITH ANS 8721 MATCHED TOLERANCE CARBIDE TIPPED DRILL BITS WITH DRILL IN ROTO-HAMMER MODE OR USE A MATCHED TOLERANCE DIAMOND CORE DRILL BIT OF DIAMETER SPECIFIED BY HILTI.
- DRILLED HOLE SPECIFICATIONS (DIAMETER & DEPTH) SHALL COMPLY WITH HILTI SPECIFICATION OR ICC ESR 1562.
- ALLOWABLE LOADS MAY BE INCREASED BY 33-10% FOR SHORT-TERM WIND OR SEISMIC LOAD RESISTANCE IAW ICC ESR 1682 UNLESS NOT PERMITTED BY THE APPLICABLE BUILDING CODE.
- WHEN CONDUCTED, PROOF TEST ANCHORS IN THE FIELD TO 150-200% OF HILTI PUBLISHED ALLOWABLE TENSION LOAD UNLESS NOTED OTHERWISE IN A PROOF TEST LOAD TABLE. TORQUE TESTING IS NOT PERMITTED.
- ANCHORS SHALL BE TIGHTENED WITH A CALIBRATED TORQUE WRENCH. USE OF AN IMPACT WRENCH IS NOT PERMITTED.
- CONTACT HILTI TECHNICAL SUPPORT AT 1-800-879-8000 FOR INSTALLATION INSTRUCTIONS IN SUBMERGED WATER CONDITIONS.
- CONTACT HILTI TECHNICAL SUPPORT AT 1-800-879-8000 FOR ADDITIONAL ASSISTANCE WITH HVA ADHESIVE ANCHOR INSTALLATIONS.

INSTALLATION INSTRUCTIONS:

- FOR HVA ADHESIVE CAPSULES WITH H.A.S. THREADED RODS:
 - DRILL ANCHOR HOLE WITH A CARBIDE BIT (SEE NOTE 1 ABOVE), TO SPECIFIED EMBEDMENT DEPTH.
 - CLEAN HOLE WITH COMPRESSED AIR OR BLOW OUT PUMP. INSERT NOZZLE TO BOTTOM OF HOLE.
 - IF USING MATCHED TOLERANCE CORE BIT, REMOVE STANDING WATER FROM HOLE.
 - INSERT APPROPRIATE HVA CAPSULE INTO HOLE WITH POINTED END FIRST. CAPSULE LENGTH IS LONGER THAN STANDARD EMBEDMENT AND WILL PROTRUDE FROM HOLE. DO NOT CUT OFF ANY PART OF THE HVA CAPSULE.
 - THREAD NUT ONTO ROD.
 - PLACE A WASHER ON FIRST NUT AND THREAD BLACK SETTING WASHER IS AT TOP OF ROD.
 - TIGHTEN NUTS TOGETHER SO THAT BLACK SETTING WASHER IS AT TOP OF ROD.
 - INSERT SQUARE DRIVE SHAFT INTO HAMMER DRILL AND AT HIGH RPM IMPACT SOCKET.
 - WITH HAMMER DRILL ON ROTARY HAMMER, ENGAGE TOP NUT OF HAS ROD ASSEMBLY AND ROTOHAMMER ROD THROUGH CAPSULE(S) INTO THE HOLE. STOP DRILL ROTATION IMMEDIATELY UPON REACHING BOTTOM OF HOLE.
 - DO NOT DISTURB OR LOAD ANCHOR BEFORE CURING TIME ELAPSES.

DETAILS	HAS Rod Size	in.	3/8	1/2	5/8	3/4	7/8	1	1-1/4
D_{min} - nominal ID diameter	in.	15/32	9/16	11/16	7/8	1	1-1/8	1-3/8	1-3/2
T_{min} - min. depth of embed.	in.	3-1/2	4-1/4	5	6-5/8	6-5/8	6-5/8	6-5/8	12
L_{min} - min. capsule length	in.	1	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3

INSTALLATION INSTRUCTIONS:

- SET THE DRILL DEPTH GAUGE AND DRILL A HOLE TO THE REQUIRED HOLE DEPTH. IMPORTANT: CLEAN OUT DUST AND DEBRIS. USE COMPRESSED AIR OR VACUUM AT BOTTOM OF THE HOLE. WHEN USING THE HILTI MATCHED TOLERANCE DIAMOND CORE BIT, IMMEDIATELY REMOVE STANDING WATER.
- INSERT APPROPRIATE DIAMETER HVA ADHESIVE CAPSULE INTO PRE-DRILLED HOLE IN BASE MATERIAL. NOTE: THE BEST METHOD FOR SETTING MULTIPLE CAPSULES IS TO CRUSH THE FIRST CAPSULE(S) INTO THE HOLE AND THEN INSERT THE NEXT CAPSULE. DO NOT CUT OFF CAPSULES PARTIALLY PROTRUDING FROM THE HOLE.
- CAPSULE LENGTH IS LONGER THAN STANDARD EMBED. DEPTH AND WILL PROTRUDE FROM THE HOLE.
- THREAD H.A.S. NUT ON THE H.A.S. ROD. PLACE A WASHER ON TOP OF THE FIRST NUT AND THEN THREAD A BLACK SETTING NUT DOWN ON TOP OF THE WASHER. TIGHTEN THE TWO NUTS TOGETHER LOCKING THE WASHER BETWEEN THEM. THE TOP NUT SHOULD BE FLUSH WITH THE TOP OF THE ROD.
- INSERT A SQUARE DRIVE SHAFT INTO THE HAMMER DRILL AND AT THE PROPER RPM SOCKET. AT THE ROTARY HAMMER DRILL SETTING, ENGAGE THE TOP NUT OF THE HAS ROD ASSEMBLY WITH THE SOCKET AND DRIVE THE ROD DOWN THROUGH THE CAPSULE(S). STOP DRILL ROTATION IMMEDIATELY UPON REACHING BOTTOM OF HOLE.
- DO NOT DISTURB OR LOAD THE SET ANCHOR BEFORE THE SPECIFIED CURING TIME ELAPSES.

PIPE CLAMP DETAIL (N.T.S.)

DROP FIXTURE ANCHOR (N.T.S.)

SHEET 2 OF 2

WASTEWATER MANHOLE	CITY OF ROCKWALL	DATE	DRAWING NO.
DROP CONNECTIONS		AUG '19	R-5080

WASTEWATER MANHOLE CITY OF ROCKWALL

DATE	DRAWING NO.
AUG '19	R-5101

"RECORD DRAWING"
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DATE: 7/28/2022 BY: *[Signature]*

WASTEWATER MANHOLE CITY OF ROCKWALL

DATE	DRAWING NO.
AUG '19	R-5102

CLASS CONCRETE	BAGS CEMENT PER C.Y.	MIN. STRENGTH 28 - DAY PSI
A	5.5	3000
B	4	2000

THE CLEANOUT MAY BE PLACED IN THE PARKWAY OR SIDEWALK, IF NECESSARY.

WASTEWATER LATERAL CONNECTIONS - RESIDENTIAL CITY OF ROCKWALL

DATE	DRAWING NO.
AUG. '15	R-5120

ABANDONMENT OF MANHOLE CITY OF ROCKWALL

DATE	DRAWING NO.
AUG '19	R-5170

MANHOLE AND VALVE VAULT CITY OF ROCKWALL

DATE	DRAWING NO.
AUG '19	R-5180

Kimley-Horn

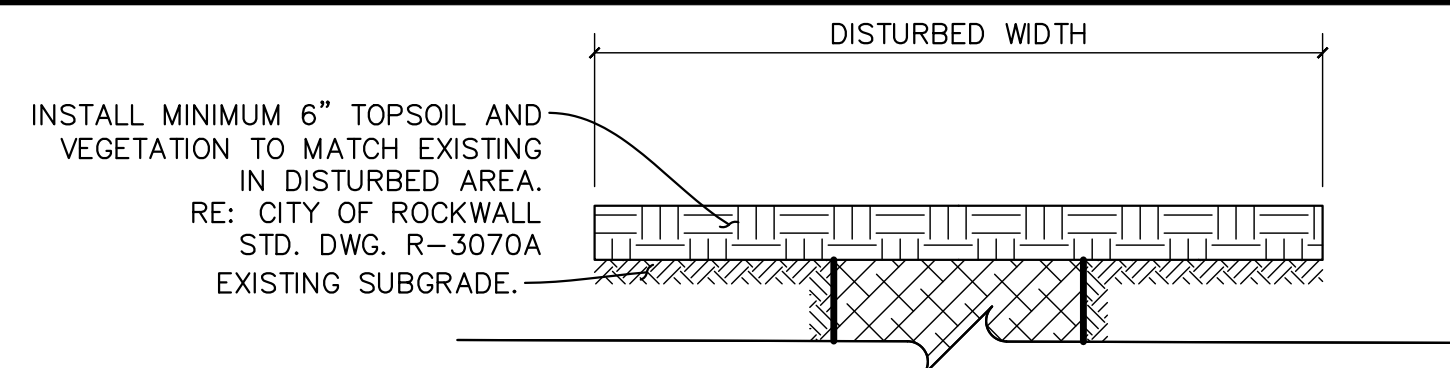
ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS

CITY OF ROCKWALL
STANDARD
CONSTRUCTION
DETAILS

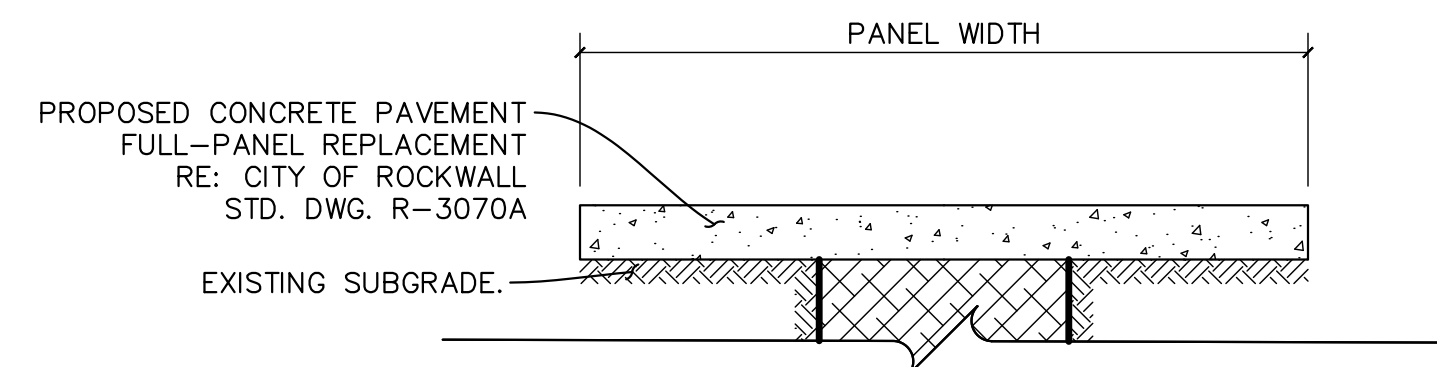
DATE: 2/11/2021	DESIGN: JAS	CHECKED: MSP	KHA NO.: 064474704
DRAWN: RHJ	CITY OF ROCKWALL		

SHEET

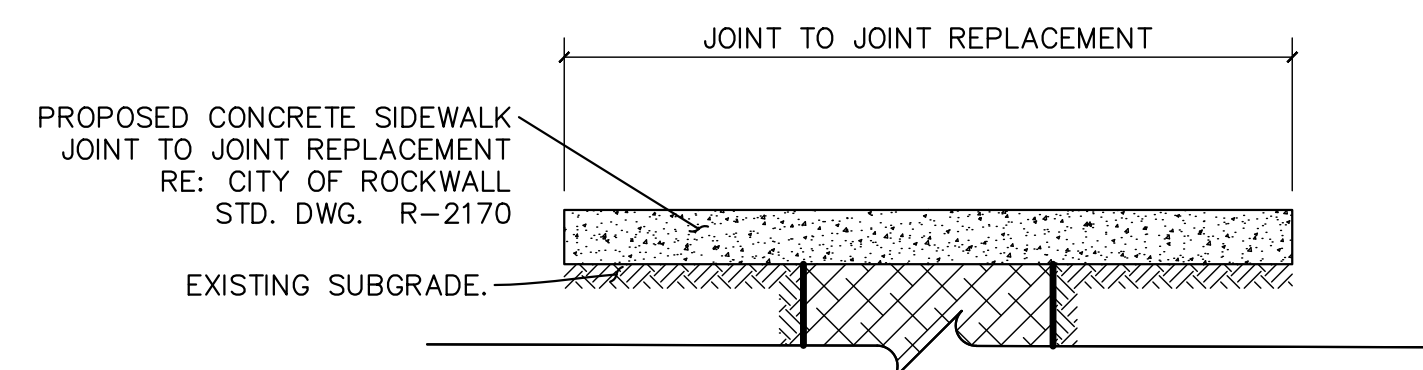
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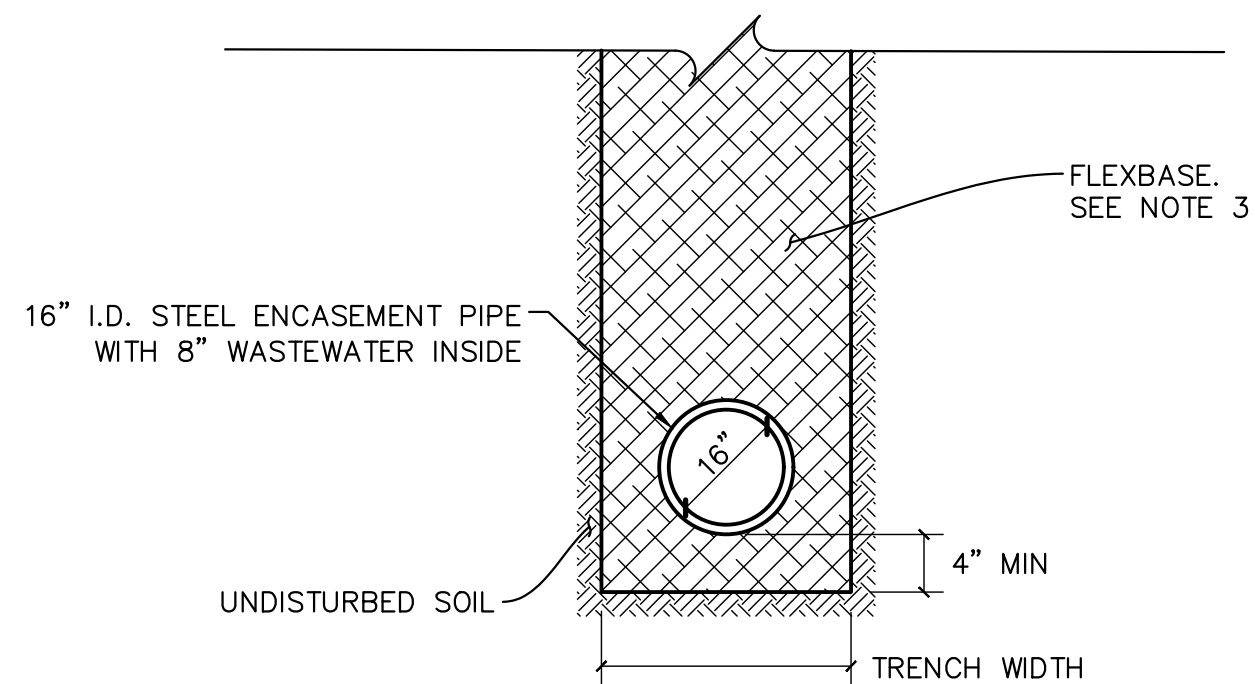
NATURAL EARTH AND VEGETATION



CONCRETE STREET PAVEMENT



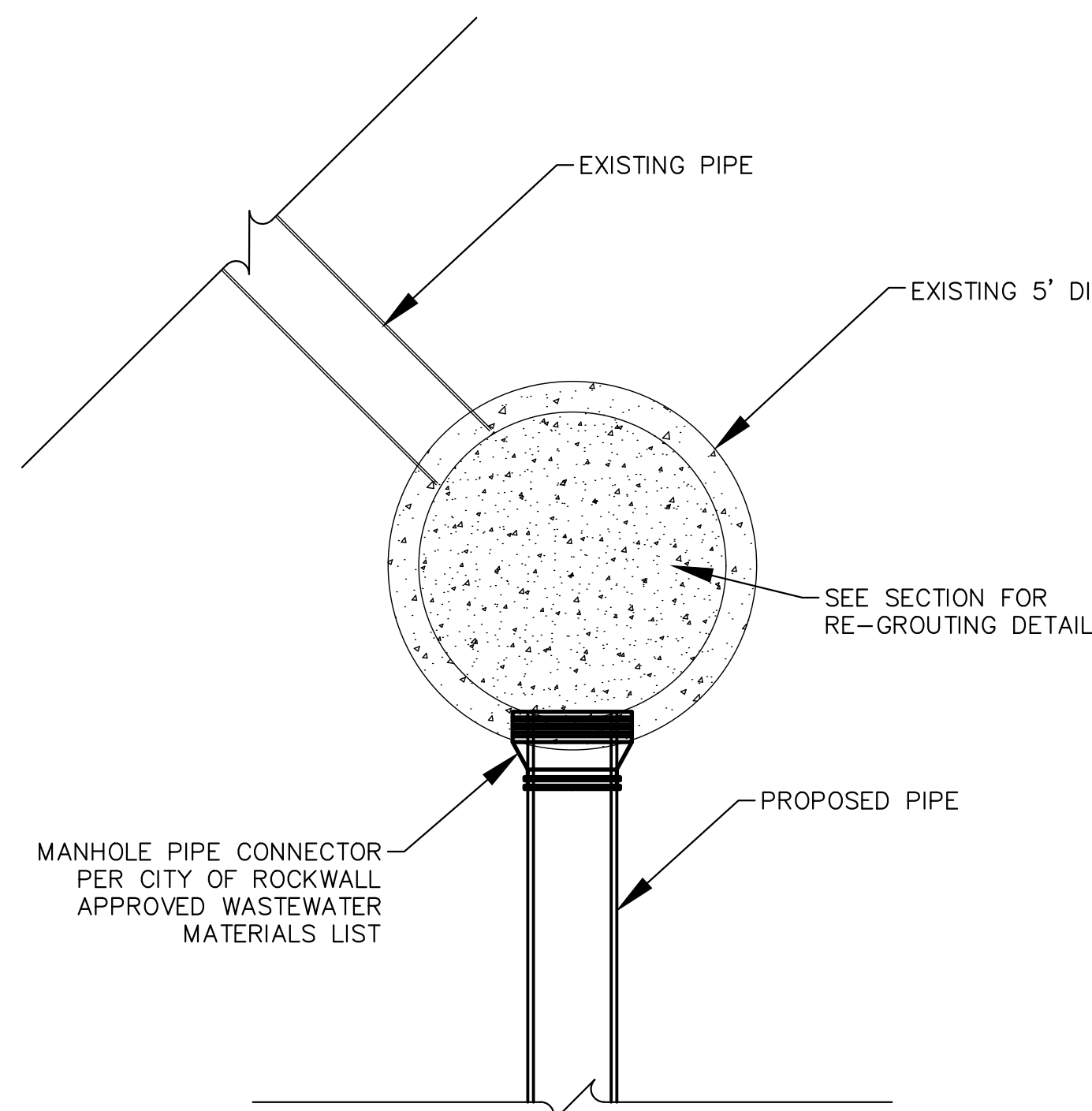
CONCRETE SIDEWALK



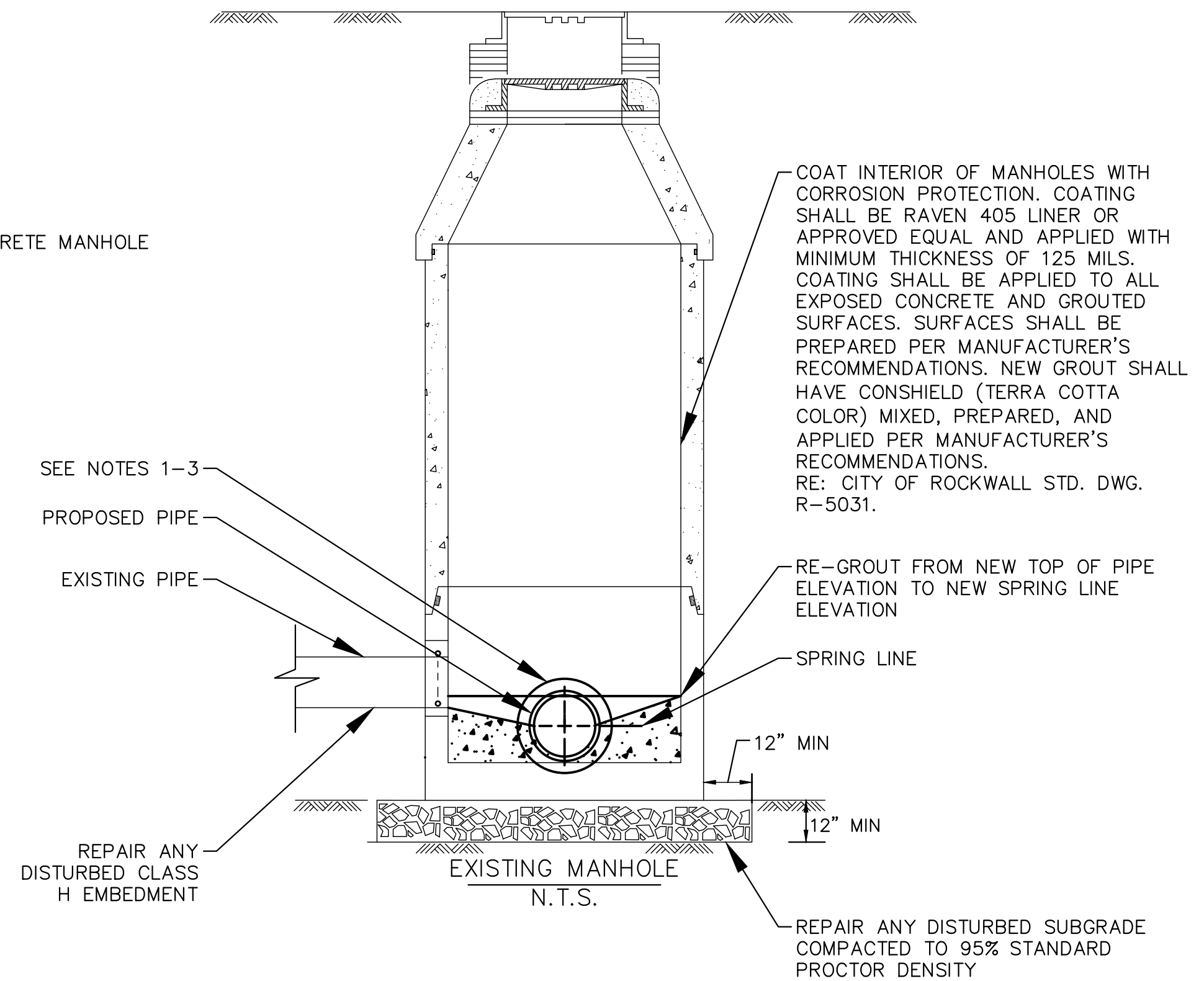
NOTES:

1. ALL PAVEMENT SHALL BE REMOVED ALONG NEAT SAW CUT LINES AT PANEL JOINTS.
2. EMBEDMENT AND BACKFILL SHALL BE THE SAME MATERIAL.
3. EMBEDMENT AND BACKFILL MATERIAL SHALL BE "FLEXBASE" DESCRIBED AS: TXDOT ITEM 247 TYPE A GRADE 1 COMPACTED TO 95% STD. PROCTOR MAXIMUM DRY DENSITY WITHIN 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT.
4. FULL PANEL CONCRETE REPLACEMENT WILL BE REQUIRED FOR DAMAGED PANELS.
5. WHERE PAVEMENT REPAIR IS REQUIRED AND THERE IS AN ABSENCE OF A TRENCH, CONTRACTOR SHALL UTILIZE EXISTING SUBGRADE (SUBJECT TO CITY APPROVAL).
6. CHECK WITH STREET OWNER FOR SPECIFIC REQUIREMENTS NOT CONTAINED HEREIN.

1
D6
Embedment and Backfill - Segment 2 Across Bourn Street
SCALE: NOT TO SCALE



PLAN



SECTION

NOTES:

1. REMOVE EXISTING PIPE END TO BE REPLACED FROM THE EXISTING CONNECTOR.
2. CORE A HOLE LARGE ENOUGH TO RECEIVE PROPOSED PIPE.
3. INSTALL PIPE CONNECTOR PER CITY OF ROCKWALL APPROVED WASTEWATER MATERIALS LIST.

2
D6
MANHOLE REHABILITATION
DETAIL
NOT TO SCALE

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE. THE ORIGINAL SEALED CONSTRUCTION DRAWINGS ARE ON FILE AT THE OFFICES OF KIMLEY-HORN AND ASSOCIATES, INC. 13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX, 75240.
DATE: 7/28/2022 BY: *[Signature]*

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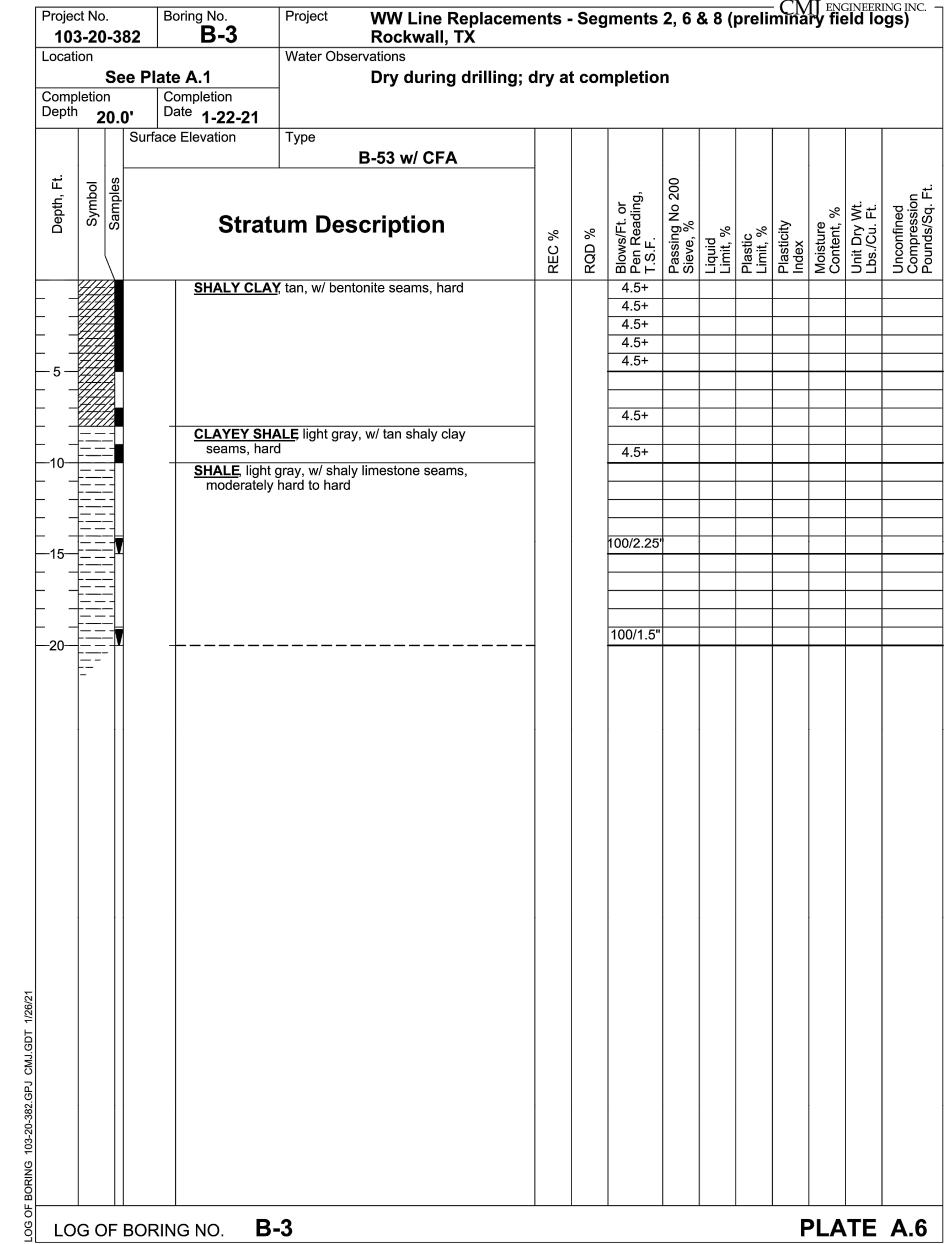
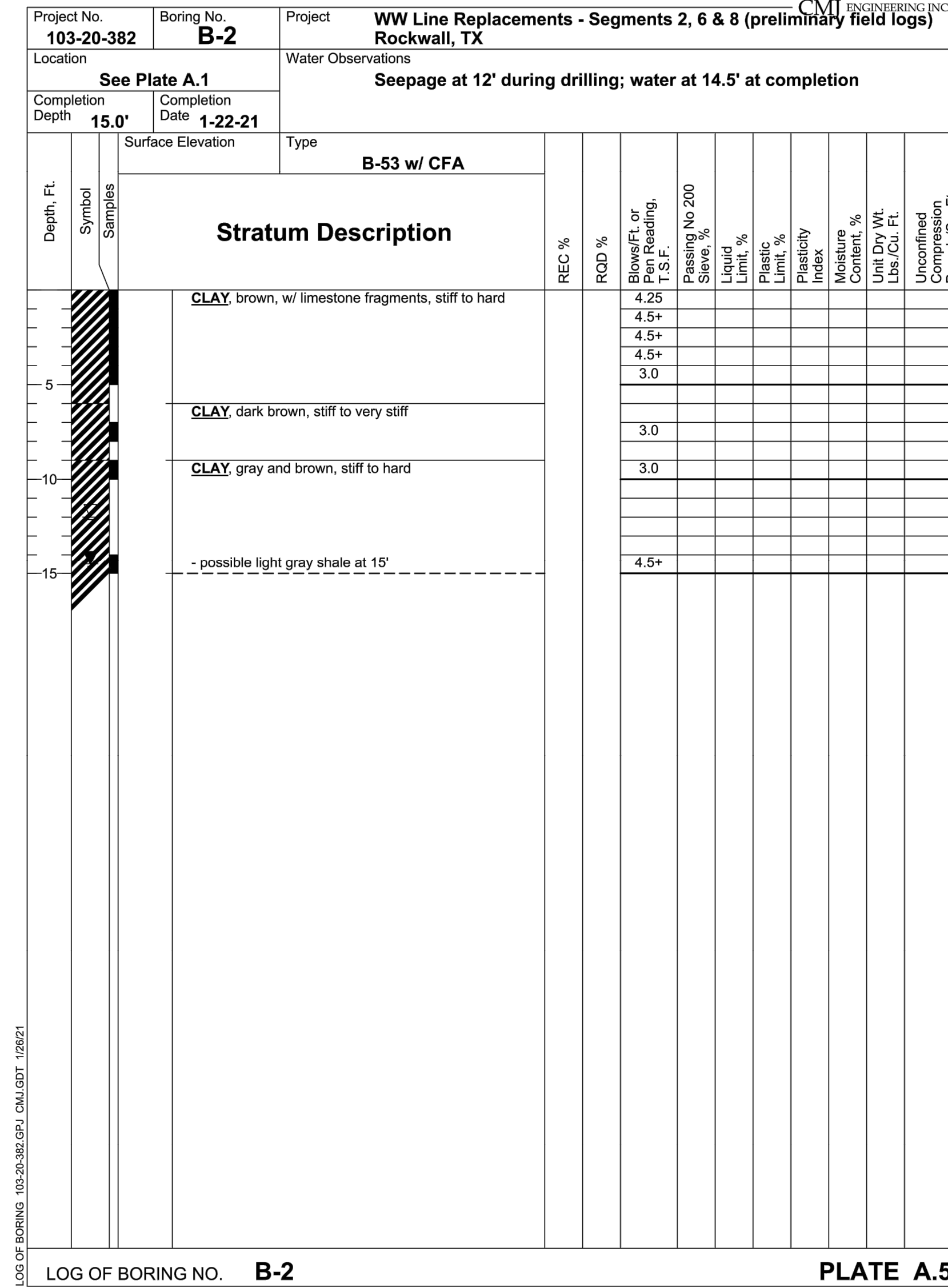
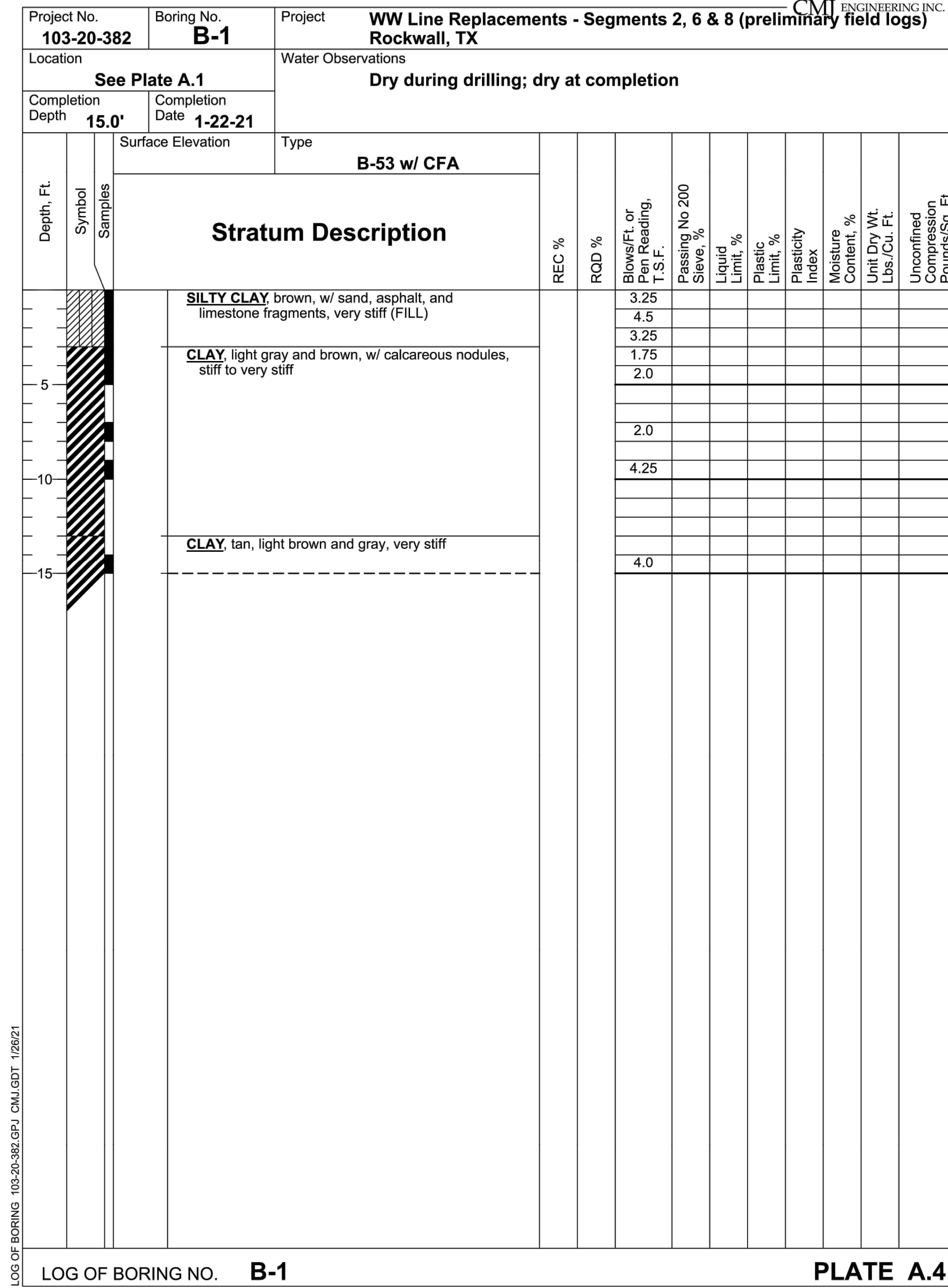
Kimley»Horn
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No. _____ By _____
Revision _____ Date _____

ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS

CONSTRUCTION
DETAILS

DATE: 2/11/2021
DESIGN: JAS
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KHA NO.: 064474704

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**ROCKWALL COUNTY
JAIL DOWNSTREAM
WASTEWATER MAIN
IMPROVEMENTS**

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No.	Revision	By	Date