

CONSTRUCTION DRAWINGS  
GRACE Christian  
School Apex Campus

PRELIMINARY  
NOT APPROVED FOR  
CONSTRUCTION



LITTLE  
DIVERSIFIED ARCHITECTURAL CONSULTING

The signatures affixed below certify that this sheet has been reviewed and approved solely per the certifications signed on the cover sheet of these Construction Plans.

Transportation Engineering

Planning

Building Inspections

Planning - Transportation

Water Resources - Utility Engineering

Fire

Water Resources - Stormwater and S&E

Parks, Recreation & Cultural Resources

Electric

WR JOB NUMBER 23780  
DRN: WR DGN: WR CKD: VR

OVERALL UTILITY PLAN

C5.00



GREATER RALEIGH AREA  
CHRISTIAN EDUCATION INC.  
1101 BUCK JONES RD, RALEIGH,  
NC 27606  
919-471-0200

UTILITIES LEGEND

SYMBOL	DESCRIPTION
—FL—FL	FIRE LINE
—FM—FM	FORCE MAIN
—SS—SS	SANITARY SEWER PIPE
—W—W	WATER MAIN
—R—R	RECLAIMED WATER LINE
- - - - -	TOWN OF APEX PUBLIC WATERLINE EASEMENT

TOWN OF APEX UTILITY PLAN NOTES:

- ALL GRADING AND SUPPORT STRUCTURES ASSOCIATED WITH ANY RETAINING STRUCTURE SHALL NOT ENCROACH INTO ANY REQUIRED BUFFER OR PROTECTED AREA (E.G. RCA, THE CRITICAL ROOT ZONES OF TREES, PUBLIC UTILITY EASEMENTS AND RIGHTS-OF-WAY), AND SHALL BE CONTAINED ENTIRELY ON SITE.
- ALL GRADING PLANS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN APPENDIX J OR THE BUILDING CODE.
- SITE ELEMENTS REQUIRED TO SATISFY RECREATIONAL DESIGN STANDARDS, BUT NOT LIMITED TO, PLAY FIELDS, GREENWAY TRAILS AND ITEMS TYPICALLY ASSOCIATED WITH THEM (BENCHES, TRASH CONTAINERS, SIGNS, ETC.) MUST MEET ANY APPLICABLE STANDARDS FOUND IN THE TOWN OF APEX STANDARD SPECIFICATIONS AND STANDARD DETAILS AND THE REQUIREMENTS OF THE TOWN OF APEX PARKS AND RECREATION DEPARTMENT.
- THE SCREENING OF LOADING DOCKS, ROLL-OUT TRASH CONTAINERS, DUMPSTERS, OUTDOOR STORAGE, MECHANICAL AND HVAC EQUIPMENT, AND SIMILAR FACILITIES ON THE ROOF, GROUND, OR BUILDING SHALL MEET THE REQUIREMENTS OF UDO SEC. 8.2.8. SPECIFICALLY, SCREENING MUST BE DONE SO THAT:
  - IT IS INCORPORATED INTO THE OVERALL DESIGN THEME OF THE BUILDING AND LANDSCAPE.
  - SCREENING MATERIALS ARE NOT DIFFERENT FROM OR INFERIOR TO THE PRINCIPAL MATERIALS OF THE BUILDING OR LANDSCAPE, AND ARE SIMILAR IN MATERIALS AND COLOR.
  - SCREENED ITEMS ARE OUT OF VIEW FROM ADJACENT PROPERTY AND PUBLIC STREETS, AND A TOTALLY OPAQUE SCREEN IS ACHIEVED.
  - ANY GROUND-MOUNTED HVAC OR OTHER MECHANICAL OR UTILITY EQUIPMENT SIX (6) FEET TALL OR HIGHER MUST BE FENCED AND LANDSCAPED.
  - DUMPSTER ENCLOSURES MUST MEET THE ABOVE REQUIREMENTS PLUS BE EIGHT (8) FEET TALL OR THE HEIGHT OF THE DUMPSTER, WHICHEVER IS GREATER, AND BE BUILT OF MASONRY MATERIAL WITH OPAQUE GATES; WHERE PRACTICABLE, SHRUBS OR OTHER PLANTS MUST BE PLANTED OUTSIDE THE ENCLOSURE TO VISUALLY SOFTEN THE APPEARANCE.
- ALL WATER AND SEWER LINES SHALL BE INSTALLED WITH A MINIMUM OF THREE (3) FEET OF COVER.
- MAINTAIN A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION BETWEEN UTILITIES.
- VERIFY ALL ILLUSTRATED UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF CONFLICTS ARE ENCOUNTERED.
- CONTRACTOR SHALL COORDINATE UTILITY RELOCATION OR ABANDONMENT WITH LOCAL UTILITY COMPANIES AS REQUIRED.
- ALL METERED CONNECTIONS TO TOWN POTABLE WATER SHALL HAVE A TOWN-APPROVED BACKFLOW PREVENTION ASSEMBLY INSTALLED.
- WATER AND SEWER SHALL BE AT LEAST 10 FEET laterally from existing or proposed sewers, where local conditions prevent a separation of at least 10 feet, the water main may be laid closer, provided that the elevation of the bottom of the water main is at least 18 inches above the top of the sewer with a horizontal separation of at least three (3) feet.
- CONTRACTORS ARE NOT ALLOWED TO OPERATE ANY TOWN OF APEX WATER VALVES. ALL EXISTING VALVES WITHIN THE TOWN WATER SYSTEM SHALL BE OPERATED ONLY BY TOWN PERSONNEL. EXISTING VALVES WILL NOT BE OPERATED WITHOUT A MINIMUM NOTICE OF 24 HOURS. TOWN PERSONNEL SHALL OPERATE ALL NEW VALVES ONCE THEY HAVE BEEN TESTED, CERTIFIED, AND ACCEPTED.
- ALL NEW PUBLIC WATER AND SEWER LINES CONTAINED WITHIN A TOWN OF APEX PUBLIC UTILITY EASEMENT WILL REQUIRE A WATER DISTRIBUTION EXTENSION PERMIT AND/OR A GRAVITY SEWER EXTENSION PERMIT TO THE RELEASE OF CONSTRUCTION DRAWINGS. ALL WATER DISTRIBUTION EXTENSION PERMIT APPLICATIONS SHALL BE ACCOMPANIED BY A SEALED ENGINEER'S REPORT PER THE TOWN OF APEX SPEC BOOK. PLEASE CONTACT THE ENGINEERING DIVISION AT 919-249-3394 TO OBTAIN THESE PERMIT APPLICATIONS.
- A PLUMBING PERMIT ISSUED BY THE BUILDING INSPECTION DIVISION IS REQUIRED FOR ALL PLUMBING SYSTEMS, INCLUDING STORM DRAINAGE SYSTEMS, INSTALLED OUTSIDE THE PUBLIC UTILITY EASEMENT. THESE SYSTEMS SHALL BE INSPECTED AND APPROVED BY THE PLUMBING INSPECTOR PRIOR TO COVERING. CONTACT THE BUILDING INSPECTIONS DIRECTOR AT 919-249-3381 FOR INFORMATION INCLUDING THE UTILIZATION OF A THIRD-PARTY INSPECTION AGENCY.

OFFSITE SEWER TIE IN NOTES:

THE PROPOSED SANITARY SEWER LAYER BETWEEN SSMH-109 AND MH-17 WILL NOT BE PLACED UNLESS SANITARY SEWER IS ACCEPTED, OR OTHERWISE BE PUT IN SERVICE BY THE TOWN OF APEX UNTIL THE NORTHERN BIG BRANCH SEWER OUTFALL IS COMPLETED, CERTIFIED, AND PLACED UNDER WARRANTY BY THE TOWN OF APEX. FURTHERMORE, A CERTIFICATE OF OCCUPANCY, BOTH TEMPORARY AND PERMANENT, WILL NOT BE APPROVED UNTIL THE PROPOSED SANITARY SEWER NOTED ABOVE HAS BEEN PLACED UNDER WARRANTY BY THE TOWN OF APEX.

OFFSITE SEWER EXTENSION BY OTHERS SHOWN FOR REFERENCE ONLY. LINework PROVIDED BY PEAK ENGINEERING ON 6/1/25.

PRIVATE SEWER PERMIT NUMBER: WQ0046714

TOWN OF APEX ARBORIST NOTES

SEE ATTACHED ARBORIST REPORT FOR PRACTICE REGARDING IMPACT WITHIN THE CRITICAL ROOT ZONE (CRZ) AND CONSTRUCTION CARE RECOMMENDATIONS TO PRESERVE TREES WITHIN THE BUFFERS. RECOMMENDATIONS, SOME OF WHICH ARE TO BE PERFORMED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST INCLUDE:

- CONTACT THE PLANNING DEPARTMENT ARBORIST, MARK SIBURAT AT 919-249-3335 OR MARK.SIBURAT@APEX.ORG PRIOR TO GRADING OR DISTURBANCE NEAR ANY OF THE BUFFERS IN ORDER TO REVIEW THE CRITICAL ROOT ZONE PROTECTION PROCEDURES.
- PERFORM ROOT PRUNING TO THE TREES THAT HAVE CRITICAL ROOT ZONE IMPACT IN ACCORDANCE WITH THE LEAF AND LIMB ARBORIST REPORT.
- PROVIDE A COMPLETION LETTER TO THE PLANNING DEPARTMENT, AT 919-249-3300, ONCE WORK IS COMPLETED ON THE CRITICAL ROOT ZONE AREA.

100' TOWN OF APEX RIPARIAN BUFFER FROM TOP OF PERENNIAL STREAM BANK

20' RIPARIAN BUFFER ZONE 2

30' RIPARIAN BUFFER ZONE 1

100 YEAR BASE FLOOD ELEVATION

100YR

100YR</

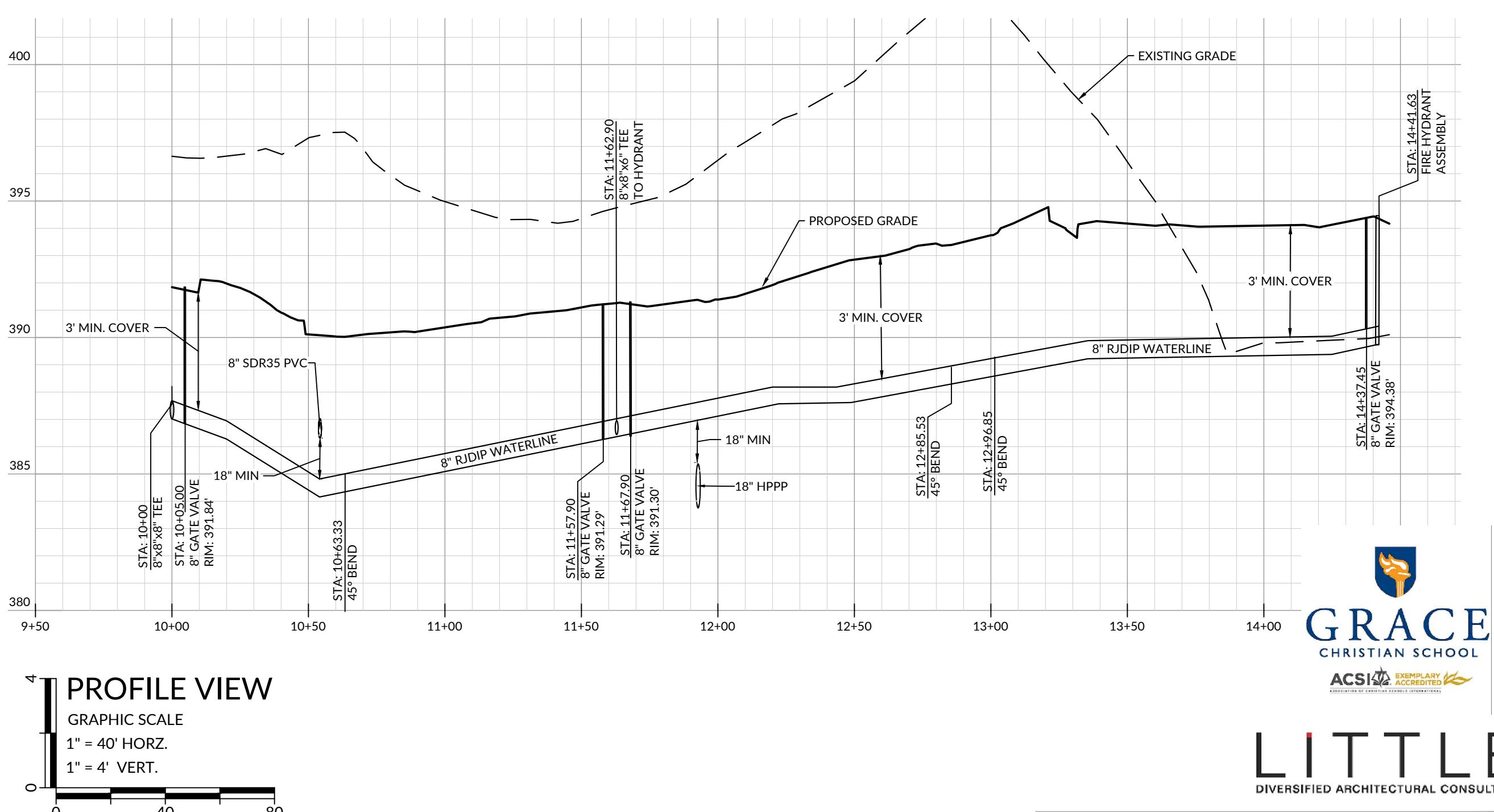
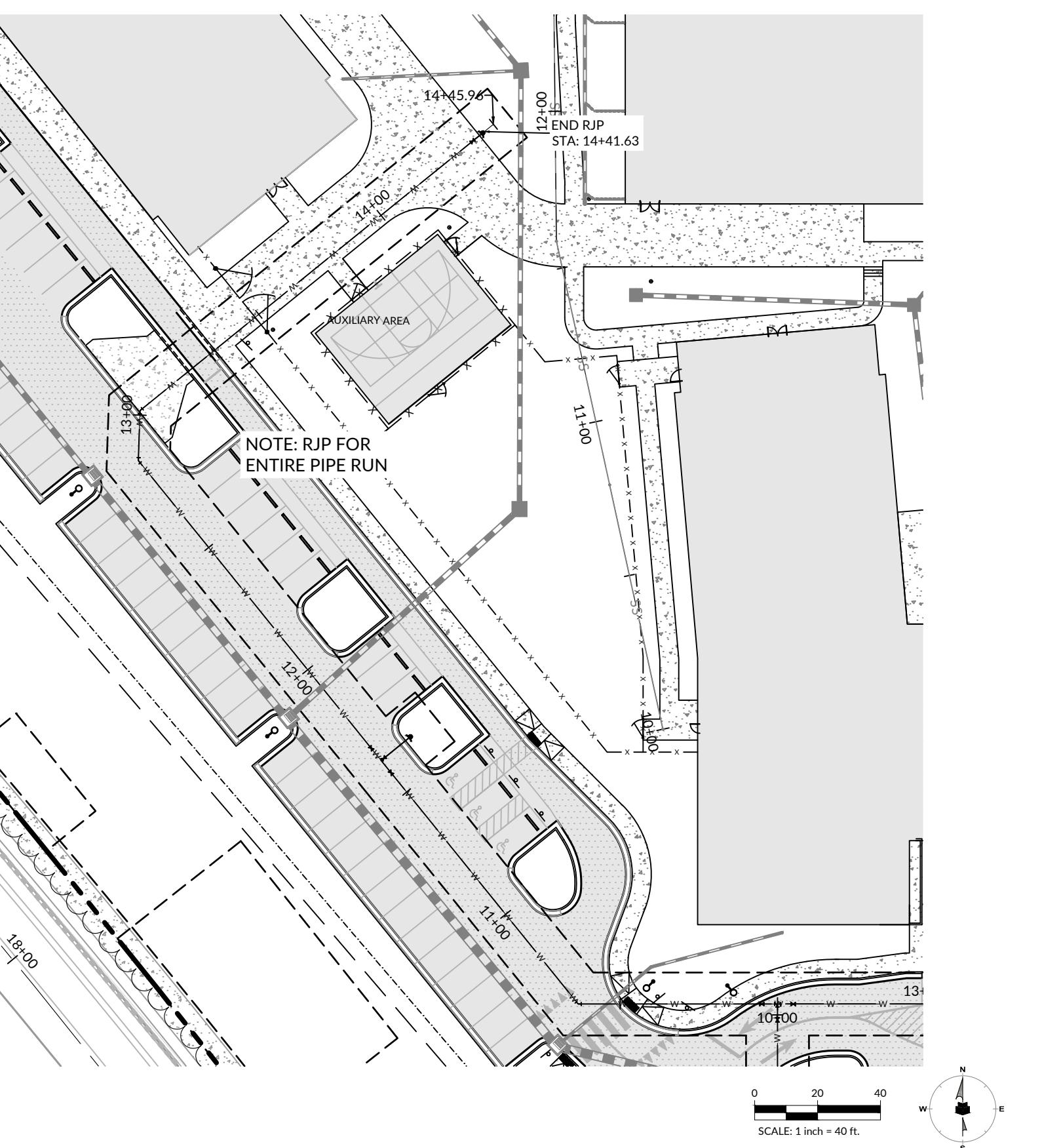
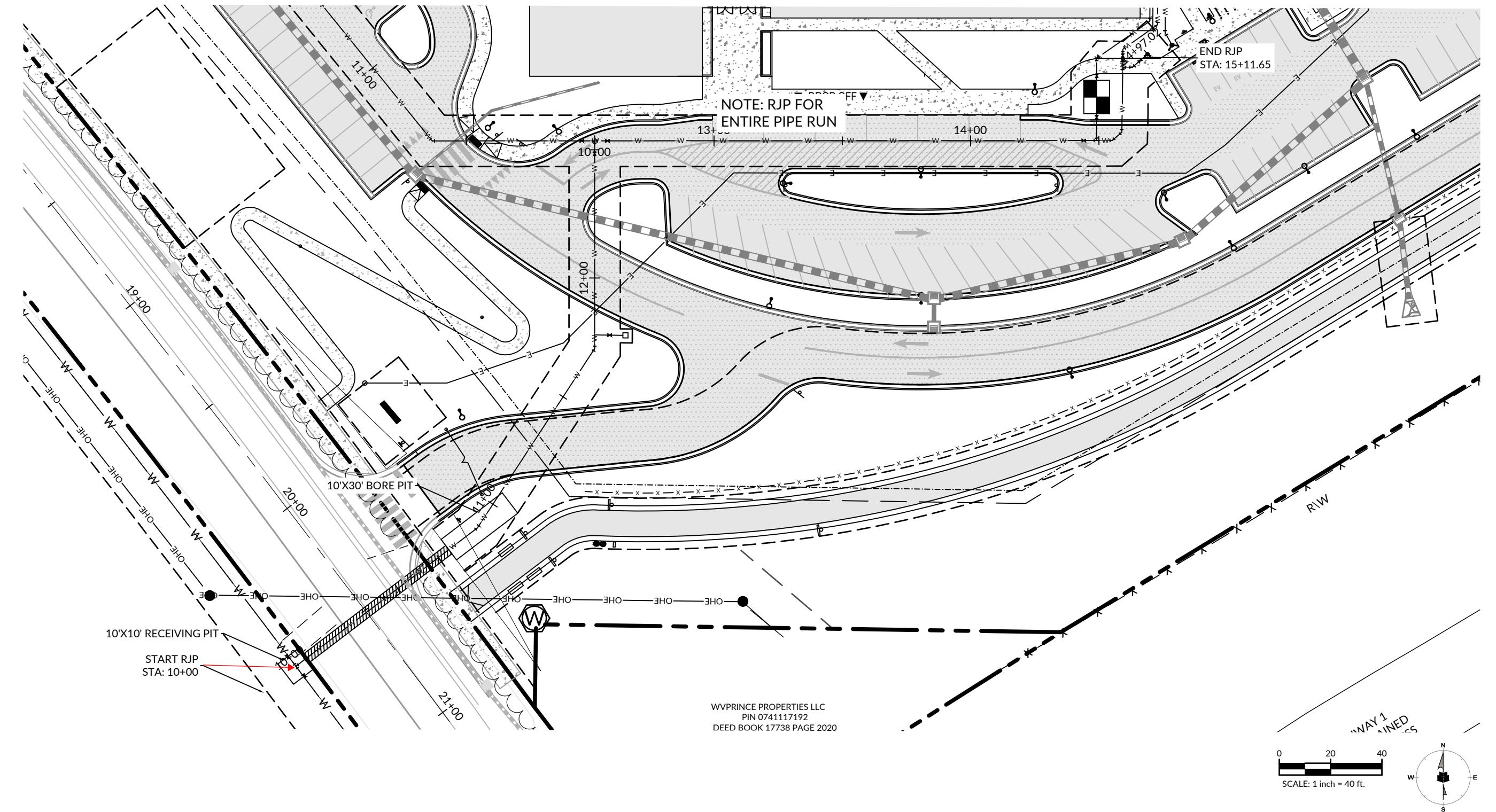
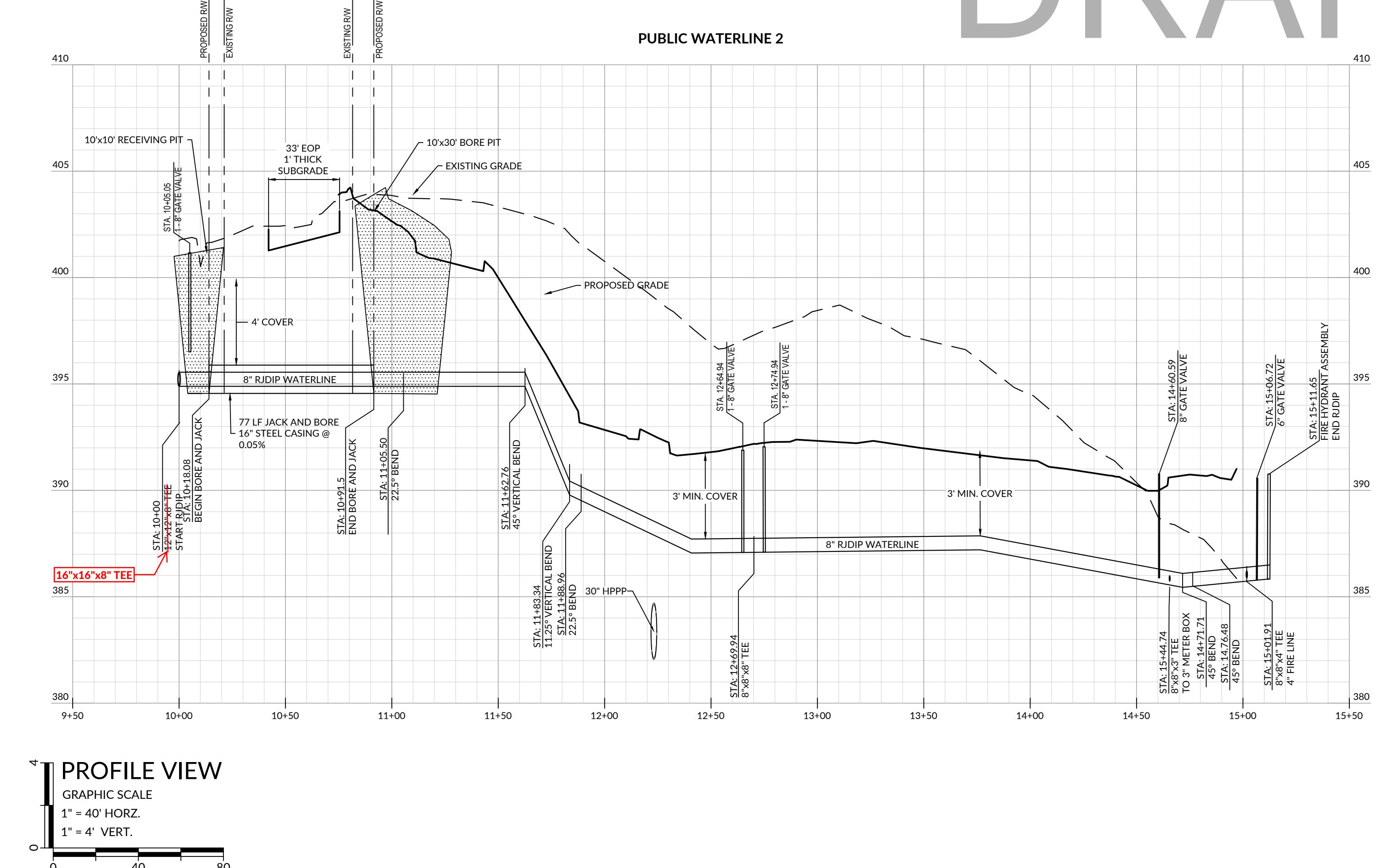








# DRAFT



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