TOMBALL INDEPENDENT SCHOOL DISTRICT

RFP #998-26 Issued: May 8, 2026
REQUEST FOR COMPETITIVE SEALED PROPOSALS
FOR THE EXPANSION AND CONSTRUCTION OF THE EXISTING TRANSPORATION SITE FACILITIES

Addendum No. 02

May 19, 2026

Questions and Clarifications for the RFP Document:

1. Sign-in sheet provided listing those who attended the pre-proposal meeting and signed in.

2. Administrative comment: Under "Table of Awarded Points" pages 18 & 19, delete the table in its entirety and replace it with the following statement:
   The lowest price shall receive 70 points, with others receiving a percentage of 70 points based on a percentage comparison with the lowest cost proposed.

3. Administrative comment: Disregard all bid forms issued in the original RFP and in Addendum #01. See the revised Exhibit A & C. The contractor must use these forms populated with all requested information. The dollar amount on Exhibit A – Base Bid, shall be in words matching the numeric values provided and shall include a contingency of $700,000.00. There are no Unit Prices required. The remainder of the entire RFP unless specifically noted, remains as originally issued.

4. Administrative comment: **Reminder** - The Excel file for reference in native format is due 05-19-2026 as listed in the RFP. There are no changes to this form.

5. Administrative comment: As noted in the pre-proposal meeting, see the revised Schedule of Events attached. Proposals are due by or before **11:00 A.M. CST**. The bid date is **May 26, 2026**. See revised Probable Schedule of Events. Submission requirements remain as described in this RFP as originally issued.

Questions and Clarifications regarding the Construction Documents:

1. Refer to the Engineer's revised construction documents with clouded response to the City of Tomball permitting questions.

Questions and Clarifications regarding the Specifications:

1. No Change.

End of Addendum

EXHIBIT A –PROPOSAL FORM

Having examined the Request for Proposal prepared by the Owner, and in submitting this proposal, the undersigned agrees to the following:

1. To hold the proposal open for acceptance by the Owner for 60 days.
2. To hold alternate proposals open for acceptance by the Owner for 120 days
3. To execute Contract Documents within ten (10) days after the prescribed forms are presented for signature and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such contract.
4. The Owner maintains the right to reject any or all proposals, to waive informalities or minor irregularities in the proposal process and to accept the proposal which the Owner considers most advantageous. The Owner reserves the right to verify the accuracy and completeness of all responses by utilizing any information available to the Owner without regard to whether such information appears in the submission.
5. That this Proposal has been arrived at independently and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over respondents in the award of this proposal.
6. The Owner reserves the right to negotiate with any Respondent in a manner permitted by law.
7. The undersigned has reviewed the Contract and exhibits as modified by Owner and agrees to execute a final version of these contracts in accordance with the attached terms, subject to final approval by Owner and further understands the Owner has no plans for modification of the posted contract/agreement. Any exceptions shall be identified on Exhibit J Deviation and Exceptions in this RFP. Should an agreement not be reached within a time frame defined by the Owner, the Owner shall cease discussions and move to the next proposer to this RFP.
8. By providing a response, each Applicant agrees to waive any claim it has or may have against the Owner, its Trustees, agents and employees, and any reference sources, arising out of or in connection with: the administration, evaluation, or recommendation of any response; waiver of any requirements in the Request for Proposals; acceptance or rejection of any response and award of the Contract.
9. The cost of developing a response is the sole responsibility of the Applicant. The Owner will not provide reimbursement of such cost and will not be liable for any preparation cost for any reason whatsoever.
10. Respondents have visited the site of the proposed work and fully acquainted themselves with the existing conditions, the difficulties and have thoroughly examined and familiarized themselves with the drawings, technical specifications and all other contract documents. The contractor, by submission of this proposal, understands the Owner has no obligation to negotiate scope or terms due to the contractor's level of due diligence.
11. Each unit price requested shall include its pro rata share of overhead so that the sum of the products obtained by multiplying the quantity shown for each item by the unit price

proposal represents the total proposal. Any proposal not conforming to this requirement may be rejected as informal. Special attention is drawn to this condition, as the unit prices may be used to determine the value of any change orders resulting from an increase or decrease in quantities.

1. **Contract Time:** The undersigned agrees that, if the proposal is accepted, the Date of Commencement shall be will be established in a "Notice to Proceed" from the Owner and to obtain Partial Substantial Completion of all work identified in Addendum #01 not later than August 1, 2026 the construction permit is available by June 15, 2026. When this is not attainable due to permitting, the project in its entirety shall be Substantially Complete no later than November 20, 2026, subject to claims for extensions of time as described in the AIA A104-2017 provided in this RFP.

2. **Construction Permit:** The undersigned acknowledges that the bid or proposal has been submitted with the understanding that the time from submission of the bid, or proposal until a building permit will be released is estimated as **15 calendar days**. The owner may issue a notice to proceed prior to the date when a building permit is released and the contractor shall commence all activities on the project for which a building permit is not required, such as project submittals, site mobilization, subcontractor buyout, and similar activities.

3. **Addenda:** The undersigned acknowledges receipt of:

Addenda 1 .....dated ..... _ _ /_ _/_ _ _ _

Addenda 2 .....dated ..... _ _ /_ _/_ _ _ _

Addenda 3 .....dated ..... _ _ /_ _/_ _ _ _

Addenda 4 .....dated ..... _ _ /_ _/_ _ _ _

Addenda 5 .....dated ..... _ _ /_ _/_ _ _ _

4. **Base Proposal:** The undersigned agrees to perform the complete Scope of Work of this Project for the lump sum price provided below which includes a contingency of **$700,000.00**.

_____

Dollars (Amount written in words governs)

$_____ _(Amount in figures)

Submit with Part 1 **Company Name:**_____

Alternates: **There are currently no alternates identified.**

Company (Proposer):_____

Address:_____

City ST Zip

Telephone:_____ Fax:_____ Email:_____

Printed Name/Title:_____ Signature:_____

State whether firm is a: ❒ Corporation ❒ Partnership ❒ Individual

Submit with Part 1

EXHIBIT C – BID ALTERNATES AND UNIT PRICE FORM

~~**See Exhibit A above.**~~

Alternates: There are no alternates identified in this RFP at this time or unit pricing requested.

TOMBALL INDEPENDENT SCHOOL DISTRICT

LAN

MEETING SIGN-IN SHEET

Project: BAKER DR. TRANSPORTATION SITE	**Meeting Date:** 5/18/2026
Facilitator: SCOTTY LEWIS FOR TISD	**Place/Room:** TISD ANNEX

Name	Title	Company	Phone	E-Mail
John Rusk	Engineer	GLS	979-776-9700	jrusk@glstexas.com
Michael Holmes	Engineer	GLS	979-776-9700	mholmes@glstexas.com
Javan Suarez	GC	MPS	281-328-2200	estimating@mps-team.com
Christian Garcia	GC	MPS		
Brandon Watson	Estimator	DivisionOne Construction	713-688-7330	bid@d1construction.com
VICTOR FLEMING		LAN		
Kevin Delahunty	Estimator	IDR DEMO	832-823-1997	Kevind@IDRdemo.com

TOMBALL INDEPENDENT SCHOOL DISTRICT

LAN

MEETING SIGN-IN SHEET

Project: BAKER DR TRANSPORTATION SITE	**Meeting Date:** 5-18-2026
Facilitator: SCOTTY LEWIS FOR TISD	**Place/Room:** TISD ANNEX

Name	Title	Company	Phone	E-Mail
Melody Kelley	Exec. Assist.	ICI	281-355-3151	bids@iciconstructioninc.com
Dalton Gumina	Project Manager	Deanco	713-591-3204	dgumina@deancocivil.com
Victoria Lee	Project manager	GTT	281-896-4626	Vlee@gttconstruction.com
SCOTTY LEWIS	PM	LAN	713 249 3836	SLEWIS@LAN-INC.COM
JASON PEARCE	PRECON	GAMMA	713 963 0086	JPEARCE@GAMMACONST.COM
PAM HAYNES	PRECON	GAMMA	713 963 0086	PHAYNES@GAMMACONST.COM

TOMBALL INDEPENDENT SCHOOL DISTRICT

RFP #998-26 Issued: May 8, 2026

REQUEST FOR COMPETITIVE SEALED PROPOSALS

FOR THE EXPANSION AND CONSTRUCTION OF THE EXISTING TRANSPORATION SITE FACILITIES

I. PROBABLE SCHEDULE OF EVENTS –(REVISED 05-19-2026)

	Date	Time	Event
A.	May 8, 2026 May 8, 2026 May 15, 2026		1st Advertisement Posted for this CSP. RFP Posted on TISD Website above. 2nd Advertisement Posted for this CSP.
B.	May 19, 2026	1:00 P.M.	**List of Your References due to:** Chelsea Randle Email: clrandle@lan-inc.com Phone: (713) 821-0395
C.	May 18, 2026	11:00 A.M.	**Pre-Proposal Conference (Optional)** 1110 Baker Drive Tomball, Texas 77375 Site Visit may follow this conference
D.	May 19, 2026	5:00 P.M.	**Deadline for questions**
E.	May 21, 2026	2:00 P.M.	**Final Addendum Posted**
F.	May 26, 2026	**11:00 A.M.**	**Submission of Proposals Due** Attn: Mr. Zachery Boles, CFO 1110 Baker Drive Tomball, Texas 77375
G.	June 2, 2026		Anticipated approval by Board of Trustees
H.	June 5, 2026 (approximate)		Anticipated Notice to Proceed
I.	August 1, 2026	11:59 P.M.	Partial Substantial Completion Date
J.	November 20, 2026	11:59 P.M.	Full Project Substantial Completion Date

ADDENDUM NUMBER TWO (002)

Date: May 18, 2026

Tomball ISD
Transportation Facility Parking

Tomball ISD
310 S. Cherry St.
Tomball, Texas 77375

GLS JOB NO: 364003

NOTICE TO BIDDERS:

This addendum shall be considered a part of the contract documents for the above-named project and incorporated with the issued documents and specifications dated April 2, 2026, and all addenda issued thereof. This Addendum Number 002 dated May 18, 2026 shall govern and take precedence. This Addendum consists of Fifty-Seven (57) Pages.

CLARIFICATION:
A complete plan set was submitted to City of Tomball for review to obtain a permit for site improvements. Revisions made based on City comments are reflected in Addendum 2. There are revisions made to various sheets as well as the addition of multiple detail sheets based on City of Tomball Standard Specifications. Project Manual and Bid Schedules will also be included in the Addendum in their entirety.

SPECIFICATION:
1. ~~Bid Form~~
    a. ~~Issued in its entirety~~

DRAWINGS:
1. Cover Sheet
    a. Replaced in its entirety
2. C0.01 – Project Notes & Information
    a. Replaced in its entirety
3. GEN -01 – General Construction Notes
    a. Sheet added to the plan set
4. Sheets 1-13 – Topographic Survey Sheets
    a. Sheets added to the plan set
5. Sheets C1.00 - C1.06 – Demolition Plan
    a. Replaced in their entirety
6. C2.00 – Overall Site & Erosion Control Plan
    a. Replaced in its entirety
7. Sheets C2.01 – C2.06 – Site & Erosion Control Plan
    a. Replaced in their entirety
8. C3.00 – Overall Grading & Utility Plan
    a. Replaced in its entirety

9. C3.01 – Overall Grading & Utility Plan
    a. Replaced in its entirety
10. C3.02 – Grading & Utility Plan
    a. Replaced in its entirety
11. C3.03 – Grading & Utility Plan
    a. Replaced in its entirety
12. C3.04 - Grading & Utility Plan
    a. Replaced in its entirety
13. C3.05 – Grading and Utility Plan
    a. Replaced in its entirety
14. C3.06 -Grading and Utility Plan
    a. Replaced in its entirety
15. C4.00 – Storm Sewer Profile
    a. Replaced in its entirety
16. C4.01 – Storm Sewer Profile
    a. Replaced in its entirety
17. C5.00 – Civil Paving Details
    a. Replaced in its entirety
18. C5.02 – Civil Paving Details
    a. Replaced in its entirety
19. C5.03 – Civil SWPP Details
    a. Replaced in its entirety
20. C5.04 – Civil Misc. Details
    a. Replaced in its entirety
    b. Removed detail 5
21. STM – 28 – Standard Drainage Details
    a. Sheets added to the plan set
22. STM – 29 – Standard Drainage Details
    a. Sheets added to the plan set
23. STM – 30 – Standard Drainage Details
    a. Sheets added to the plan set
24. SWPP – 01 – Standard SWPP Details
    a. Sheets added to the plan set
25. C5.05 – TxDOT Details
    a. Sheet added to the plan set
26. C6.00 – Landscape Site Plan
    a. Sheet added to the plan set

Sincerely,

Michael Holmes

Michael Holmes, PE

Civil Engineer

MH/ac

364003 - TOMBALL I.S.D. BUS BARN PAVING & DETENTION

TISD SCHOOL BOARD	
Mark Lewandowski	President
John E. McStravick	Vice President
Dr. Michael J. Pratt	Secretary
Amanda Bass	Member
Jennifer Kratky	Member
Coco White	Member
Patrick Beecher	Member

ADMINISTRATION	
Dr. Martha Salazar-Zamora	Superintendent
Dr. Army Schindewolf	Deputy Superintendent
Zack Boles	Chief Financial Officer

CONSTRUCTION PLANS
FOR

TOMBALL ISD
DESTINATION EXCELLENCE

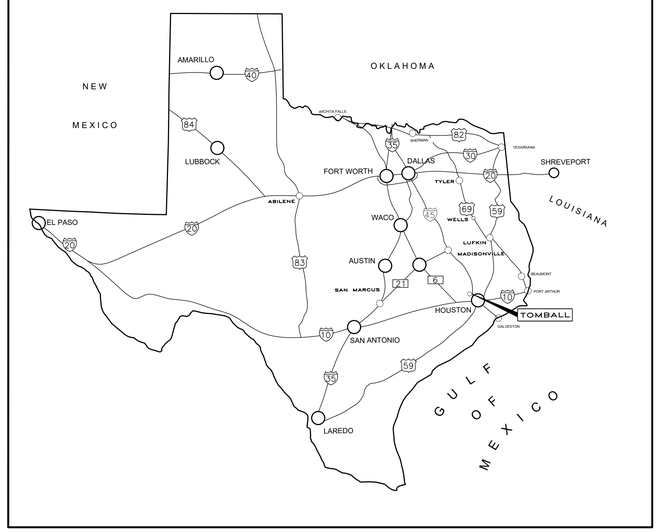
1055 Baker Dr., Tomball, TX 77375
Harris County

2 Reserve A of Tomball ISD Transportation Center, Section One

TOMBALL I.S.D.
BUS BARN PAVING & DETENTION

GLS JOB #364003
APRIL, 2026

PROJECT LOCATION MAP



Submitted: _____ 5/18/2026
Michael Holmes, P.E.
G.L.S.

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

2

Sheet List Table	
Sheet #	Sheet Title
General	
-	Cover
C0.01	Project Notes & Information
GEN - 01	General Construction Notes
Existing Conditions & Demolition Plan	
1	Category 6 Condition 1 Topographic Survey
2	Category 6 Condition 1 Topographic Survey
3	Category 6 Condition 1 Topographic Survey
4	Category 6 Condition 1 Topographic Survey
5	Category 6 Condition 1 Topographic Survey
6	Category 6 Condition 1 Topographic Survey
7	Category 6 Condition 1 Topographic Survey
8	Category 6 Condition 1 Topographic Survey
9	Category 6 Condition 1 Topographic Survey
10	Category 6 Condition 1 Topographic Survey
11	Category 6 Condition 1 Topographic Survey
12	Category 6 Condition 1 Topographic Survey
13	Category 6 Condition 1 Topographic Survey
C1.00	Overall Demolition & Tree Clearing Plan
C1.01	Demolition Plan
C1.02	Demolition Plan
C1.03	Demolition Plan
C1.04	Demolition Plan
C1.05	Demolition Plan
C1.06	Demolition Plan
Site & Erosion Control Plan	
C2.00	Overall Site & Erosion Control Plan
C2.01	Site & Erosion Control Plan
C2.02	Site & Erosion Control Plan
C2.03	Site & Erosion Control Plan
C2.04	Site & Erosion Control Plan
C2.05	Site & Erosion Control Plan
C2.06	Site & Erosion Control Plan
C2.07	Coordinate Table
Grading & Utility Plan	
C3.00	Overall Grading & Utility Plan
C3.01	Grading & Utility Plan
C3.02	Grading & Utility Plan
C3.03	Grading & Utility Plan
C3.04	Grading & Utility Plan
C3.05	Grading & Utility Plan
C3.06	Grading & Utility Plan
Storm Sewer Profiles	
C4.00	Storm Sewer Profile
C4.01	Storm Sewer Profiles

Sheet List Table	
Sheet #	Sheet Title
Civil Details	
C5.00	Civil Paving Details
C5.01	Civil Drainage Details
C5.02	Civil Drainage Details
C5.03	Civil SWPP Details
C5.04	Civil Misc. Details
C5.05	TxDOT Details
STM-28	Standard Drainage Details
STM-29	Standard Drainage Details
STM-30	Standard Drainage Details
SWP-01	
Landscape Site Plan	
C6.00	
Electrical Site Plan	
E9.11	Electrical Site Plan
E9.12	Electrical Details

PREPARED BY:

GLS
ARCHITECTURE - ENGINEERING - INTERIORS
LANDSCAPE - SURVEYING
1609 S. CHESTNUT ST. STE. 202 - LUFKIN, TEXAS 75901 - (936) 637-4900
4077 CROSS PARK DR. STE. 100 - BRYAN, TEXAS 77802 - (979) 776-9700
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
613 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

364003 - TOMBALL I.S.D. BUS BARN PAVING & DETENTION

1. CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THESE SPECIFICATIONS/PLANS.

2. FOR THE PURPOSE OF THESE CIVIL PLANS, "THE DISTRICT" IS REFERRING TOMBALL I.S.D.

3. CONTRACTOR SHALL VISIT THE CONSTRUCTION LOCATION AND FAMILIARIZE THEMSELVES WITH THE WORKING CONDITIONS (TRAFFIC, DEMOLITION WORK, PROPOSED/EXISTING UTILITIES, PAVING & DRAINAGE) OF THE SITE BEFORE BIDDING.

4. CONTRACTOR IS TO DETERMINE ALL QUANTITIES OF WORK PRIOR TO BIDDING TO PROVIDE A COMPLETE AND APPROVED PROJECT TO TOMBALL ISD.

5. THE CONTRACTOR IS REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH TOMBALL ISD AND DESIGN TEAM PRIOR TO STARTING WORK. NO WORK IS TO BE PERFORMED UNTIL THIS MEETING IS COMPLETED AND A WRITTEN NOTICE TO PROCEED IS ISSUED BY TOMBALL ISD OR PROJECT ENGINEER TO THE CONTRACTOR. MONTHLY CONSTRUCTION MEETINGS ON SITE DURING CONSTRUCTION ARE ALSO TO BE SCHEDULED WITH TOMBALL ISD & PROJECT ENGINEER.

6. IN THE ABSENCE OF SPECIFIC REQUIREMENTS FOR ANY WORK, CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER FOR DIRECTION. CONTRACTORS ARE NOT TO PROCEED WITH ANY WORK WITHOUT PROPER AUTHORIZATION OF THE PROJECT ENGINEER. PROCEEDING WITHOUT PROPER DIRECTION FROM THE PROJECT ENGINEER WILL BE AT THE CONTRACTORS SOLE RISK.

7. CONTRACTOR TO MAINTAIN SITE IN "FIRST CLASS" NEAT CONDITION. WORK SITE SHALL BE CLEANED UP AT END OF EACH DAY BY REMOVAL OF ANY TRASH AND/OR CONSTRUCTION DEBRIS. TOMBALL ISD WILL HAVE FINAL DECISION ON ACCEPTABLE "NEAT" CONDITIONS.

8. CONTRACTOR SHALL COORDINATE A STATUS OF CONSTRUCTION SEQUENCE OR REQUEST PROPOSED CHANGES IN CONSTRUCTION SEQUENCE. CONSTRUCTION SEQUENCE IS PROVIDED WITHIN CONSTRUCTION PLANS. FINAL DECISION WILL BE MADE BY TOMBALL ISD TO ALTER SCHEDULE. FOR BIDDING PURPOSES, THE CONSTRUCTION SEQUENCE WITHIN THE PLANS ARE TO BE FOLLOWED. CONTRACTOR SHALL PREPARE SEQUENCING PLAN AT THE TIME OF PRE-CONSTRUCTION MEETING AND WILL PRESENT TO THE DISTRICT & PROJECT MANAGER FOR APPROVAL.

9. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES, AND SERVICE LINES PRIOR TO EXCAVATING FOR UTILITY PLACEMENT. LOCATING METHODS INCLUDE, BUT ARE NOT LIMITED TO: LOCATING SERVICES, "POT HOLING" WITH WATER, SPOT DIGGING, ETC. COSTS FOR VERIFICATION OF EXISTING UTILITIES, AND TIE-IN LOCATIONS ARE TO BE INCLUDED IN BID. THE EXISTING LINES SHOWN ARE APPROXIMATE, BASED ON UTILITY MARKINGS AND CITY'S / DISTRICT'S INFORMATION.

10. CONTRACTOR TO PROTECT EXISTING UTILITIES, MAIL BOXES, PAVEMENT, TRASH CANS, AND ALL ITEMS TO REMAIN FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL DAMAGES RESULTING FROM THEIR ACTIVITIES. COSTS FOR REPAIRS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

11. CONTRACTOR IS RESPONSIBLE FOR LOCATING UNKNOWN UTILITIES AS ENCOUNTERED IN CONSTRUCTION. CONFLICTS WILL NOT BE REASON FOR CONTRACTOR TO CLAIM A DELAY OR ADDITIONAL COST ON THE PROJECT. CONTRACTOR SHALL ALERT THE PROJECT MANAGER IMMEDIATELY.

12. CONTRACTOR TO COORDINATE WORK WITH THE FOLLOWING UTILITY COMPANIES, AGENCIES, AND THE CITY:
WATER & SEWER . . . . CITY OF TOMBALL . . . . (281) 290-1400
2 GAS . . . . CITY OF TOMBALL . . . . (281) 290-1400
ELECTRICAL . . . . CENTER POINT ENERGY. . . . . . (281) 773-6020
TEXAS ONE CALL SYSTEM. . . . . (800) 245-4545

13. CONTRACTOR TO CONTACT UTILITY & PIPELINE COMPANIES FORTY-EIGHT (48) HOURS IN ADVANCE OF WORK IN THE VICINITY OF THEIR LINES. TEXAS ONE CALL SYSTEM IS REQUIRED WITH TICKET NUMBER.

14. CONTRACTOR TO MAINTAIN CLEARANCE OF ALL EXISTING UTILITIES AS REQUIRED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND THESE PLANS.

15. REMOVE AND DISPOSE OF ALL MATERIALS AND STRUCTURES THAT ARE TO BE DEMOLISHED AND NOT NOTED FOR SALVAGE IN AN APPROVED CONTRACTOR DISPOSAL AREA.

16. CONTRACTOR IS RESPONSIBLE FOR PREPARING, IMPLEMENTING AND MAINTAINING A TRAFFIC HANDLING PLAN. PROVIDE PROPER SIGNING FOR CONSTRUCTION, SAFETY, AND ROUTING OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION. PLAN IS TO BE APPROVED BY DISTRICT. ANY DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY THE DISTRICT. POSITIONING AND CONTENT OF SIGNS, BARRICADES AND FLAGGING SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MUTCD. CONTRACTOR SHALL CHECK TRAFFIC CONTROL SIGNAGE DAILY. TRAFFIC PLAN, CONTROL & HANDLING TO BE INCLUDED IN BID.

17. CONTRACTOR TO PROVIDE BARRICADES, SIGNS, AND LIGHTING AROUND ALL OPEN CUTS ALONG DRIVES AND STREETS IN ACCORDANCE WITH THE TEXAS MUTCD.

18. CONTRACTOR TO MAINTAIN ACCESS TO ALL EXISTING SCHOOL FACILITIES DURING CONSTRUCTION. DRIVE-WAYS & DOORWAY THRESHOLDS SHALL NOT BE IMPASSABLE OVERNIGHT. CONTRACTOR SHALL NOTIFY THE DISTRICT IN ADVANCE OF DISRUPTION OF SERVICE BY CONSTRUCTION. COORDINATE DISRUPTIONS W/ PROJECT MANAGER.

19. A FIELD SET OF AS-BUILT DRAWINGS SHOULD BE MAINTAINED BY THE CONTRACTOR FOR TRANSFER TO PERMANENT RECORD DRAWINGS. THESE DRAWINGS SHOULD INCLUDE MEASUREMENTS FROM EACH UNIT INSTALLED TO TWO PERMANENT OBJECTS. UTILITY SERVICE LOCATIONS SHOULD ALSO BE DOCUMENTED. PROJECT WILL NOT BE CLOSED OUT UNTIL CONTRACTOR HAS PROVIDED THESE FIELD SET(S) TO THE DISTRICT.

20. CONTRACTOR TO STORE MATERIALS AT LOCATION(S) APPROVED BY & COORDINATED WITH THE DISTRICT. EQUIPMENT IS TO BE STORED OVERNIGHT AT LOCATIONS SO AS NOT TO BLOCK STREETS, DRIVES, OR DRAINAGE. MATERIALS ARE TO BE PROTECTED FROM DAMAGE BY THE ELEMENTS. THE DISTRICT AND CONSULTING ENGINEER ARE NOT RESPONSIBLE FOR THEFT OR VANDALISM.

21. CONTRACTOR TO MAINTAIN ADEQUATE SITE DRAINAGE FACILITIES AS REQUIRED DURING CONSTRUCTION. PROTECT EXCAVATIONS FROM FLOODING DUE TO GROUNDWATER INFILTRATION AND RUN-OFF. INSURE THAT NO DRAINAGE ON OR OFF THE SITE IS BLOCKED BY PROPOSED CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE PROJECT AREA OR GETS INTO THE NEW STORM SEWER SYSTEM.

22. CONSTRUCTION AREAS ARE TO BE CLEARED/GRUBBED COMPLETELY OF TREES, BRUSH, STUMPS, ROOTS, PIPES, PAVEMENT AND ALL MATERIALS RESULTING FROM DEMOLITION AND CONSTRUCTION UNLESS NOTED OTHERWISE. COST OF CLEARING TO COMPLETE ALL IMPROVEMENTS TO BE INCLUDED IN BID. **A COPY OF THE GEOTECHNICAL INVESTIGATION IS INCLUDED IN THE BID DOCUMENTS.** SITE SUB-CONTRACTOR SHALL ALSO BE THE CLEARING SUB-CONTRACTOR, DISTRICT WILL NOT PAY FOR ADDITIONAL WORK FOR SITE CONSTRUCTION AS A RESULT OF CLEARING AND GRUBBING OPERATIONS.

23. CONTRACTOR TO BE RESPONSIBLE FOR EROSION CONTROL DURING AND AFTER CONSTRUCTION. CONTRACTOR SHALL INSTALL EROSION AND SILT CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION AND SHALL REMOVE TEMPORARY MEASURES WHEN PERMANENT COVER IS ESTABLISHED. CONTRACTOR SHALL CLEAN SILT OUT OF SILT FENCE OR REPLACE SILT FENCE/EROSION CONTROL AS NEEDED TO ENSURE NO SILT/DEBRIS LEAVES THE PROJECT AREA. CONTRACTOR WILL BE REQUIRED TO REMOVE SILT FROM CONSTRUCTION ACTIVITIES THAT LEAVES THE PROJECT AREA AT THE CONTRACTORS EXPENSE.

24. CONTRACTOR IS RESPONSIBLE FOR O.S.H.A. ESTABLISHED TRENCH SAFETY AS DESCRIBED IN THE FEDERAL REGISTER 29 CFR PART 1926. A TRENCH SAFETY PLAN SHOULD BE PREPARED AND A "COMPETENT PERSON" APPOINTED PRIOR TO ANY AND ALL EXCAVATING OPERATIONS EXCEEDING 5' DEPTH. THE PLAN IS TO BE PREPARED AND SEALED BY A REGISTERED TEXAS PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO ANY EXCAVATION ON THE PROJECT. INCLUDE PLAN WITH PROJECT SUBMITTALS.

25. EXISTING GRADES SHALL BE RE-ATTAINED AND PROPOSED GRADES SHALL BE ATTAINED BY SHAPING BACKFILL MATERIAL BY CUT AND FILL OPERATIONS. FILL OPERATIONS ARE TO BE ACCOMPLISHED BY PLACING MATERIAL IN 6-INCH (LOOSE MEASURE) LIFTS AND COMPACTED TO 98% DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR), OR AS NOTED IN DETAILS. CONTRACTORS (BIDDERS) ARE TO PERFORM THEIR OWN QUANTITIES DETERMINATION PRIOR TO BIDDING. ALL EARTHWORK TO BE INCLUDED IN THE BID.

26. FINISHED GRADES OF NATURAL GROUND, SOD, PAVEMENT, ETC. TO BE SLOPED TO PROVIDE PROPER DRAINAGE.

27. SELECT BORROW MATERIAL SHALL HAVE A PLASTICITY INDEX (PI) OF 8 TO 20.

28. CONTRACTORS ARE TO COORDINATE THE HOLDING/SUPPORT OF UTILITY POLES WITH RESPECTIVE OWNERS WHERE NECESSARY TO FACILITATE CONSTRUCTION. ALL COORDINATION WITH UTILITY COMPANIES IS TO BE INCLUDED WITH BID ITEMS FOR WORK TO BE PERFORMED.

29. CULVERTS, DRIVEWAYS, SIDEWALKS, SIGNS, MAILBOXES, AND ALL EXISTING ITEMS THAT ARE DISTURBED/DAMAGED BY CONSTRUCTION THAT ARE NOT SPECIFIED FOR REMOVAL/REPLACEMENT ARE TO BE RESET/REPLACED AT NO ADDITIONAL COST.

30. ON CROSSING OF PAVED ROADS AND DRIVES WHERE TYPE OF CONSTRUCTION IS NOT OTHERWISE INDICATED. THE CONTRACTOR SHALL BORE IN LIEU OF OPEN-CUT AND PAVEMENT REPLACED. CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS. DRIVEWAYS SHALL NOT BE IMPASSABLE OVERNIGHT. DIRT OR GRAVEL DRIVES MAY BE OPEN CUT PROVIDED THEY ARE BACK FILLED AS DETAILED.

31. SOLID SOD TO BE INSTALLED AT ALL LOCATIONS AS SHOWN ON PLANS. REFER TO LANDSCAPING PLANS FOR AREAS TO BE SOLID SODDED. SOIL REINFORCEMENT TO BE PLACED AT ALL AREAS INDICATED ON THE PLANS. ALL OTHER EARTHEN AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REGRADED, HYDROMULCHED, AND FERTILIZED. THIS WORK SHALL BE DONE AS OUTLINED IN THE SPECIFICATION. THIS WORK IS SUBSIDIARY TO SITE RESTORATION COSTS.

32. EXISTING ELECTRICAL POLES AND WIRES TO BE REMOVED AND DISPOSED OF BY ELECTRICAL PROVIDER PERSONNEL AND/OR THEIR CONTRACTOR. ELECTRICAL PROVIDER PERSONNEL AND/OR THEIR CONTRACTOR SHALL BACKFILL THE HOLES FROM REMOVING THE UTILITY POLE.

33. ITEMS ASSOCIATED WITH GAS SYSTEM ARE TO BE COORDINATED W/ GAS SYSTEM OWNER. GAS FACILITY OWNER WILL BE NOTIFIED TO ADDRESS THE CONFLICT.

34. UNDERGROUND ELECTRIC (UGE) MAY BE IN PROJECT AREA. CONTRACTOR TO HAVE UGE PRECISELY LOCATED, INCLUDING DEPTH, PRIOR TO EXCAVATION BEGINNING.

35. ITEMS ASSOCIATED WITH UNDERGROUND ELECTRIC & ANY ELECTRIC LINES ARE TO REMAIN UNLESS OTHERWISE NOTED. UNDERGROUND ELECTRIC PROVIDER ARE TO BE NOTIFIED TO ADDRESS ALL CONFLICTS WITH THEIR UTILITIES.

36. VERIFY LOCATION AND GRADE OF STORM SEWER OUTFALLS AND TIE-INS PRIOR TO CONSTRUCTION OF UPSTREAM IMPROVEMENTS.

37. CONTRACTOR TO MAINTAIN STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE. BEST MANAGEMENT PRACTICES TO BE USED INCLUDING BUT NOT LIMITED TO ROCK FILTER DAMS, HAY BALES, INLET PROTECTION, SILT FENCES, ETC.

38. STORM SEWER INLETS SHALL BE CAST IN PLACE OR PRECAST. CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO ORDERING PRECAST STORM SEWER INLETS. OWNER WILL NOT PAY FOR ADJUSTMENTS OR RE-STOCKING FEES.

39. CONTRACTOR TO COORDINATE WITH TRASH COLLECTOR TO ENSURE CONTINUING SERVICE DURING CONSTRUCTION.

40. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SANITARY SEWER TIE-IN (DEPTH & LOCATION) PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO PROJECT ENGINEER.

General Notes 7

41. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PAVEMENT TIE-IN ELEVATIONS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO PROJECT ENGINEER.

42. EXISTING FENCES SHALL BE RELOCATED OR REPLACED AS NOTED ON THE PLANS.

43. CONTRACTOR SHALL PROTECT ALL UNDERGROUND PIPING DURING CONSTRUCTION AS REQUIRED BY MANUFACTURER FOR WARRANTY OF MATERIAL. TEMPORARY MEASURES (PLACEMENT & REMOVAL) FOR SUFFICIENT COVERAGE OF ALL PIPES DURING CONSTRUCTION SHALL BE INCLUDED IN BID.

44. CONTRACTOR AND HIS SUPPLIER TO SUPPLY & INSTALL FITTINGS AS DESIGNED. ANY ADDITIONAL FITTINGS REQUIRED BUT NOT NOTED ON PLANS BUT NECESSARY FOR CONSTRUCTION WILL BE CONSIDERED SUBSIDIARY. CONTRACTOR TO MAKE THEIR OWN DETERMINATION FOR SUBSIDIARY ITEMS. COST TO BE INCLUDED IN PIPE BIDS.

45. CONTRACTOR IS TO COORDINATE BACKFILLING OF ALL ITEMS TO BE CONSTRUCTED WITH THESE PLANS AND SPECIFICATIONS. ALL UTILITIES TO BE TESTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. TESTS TO BE COORDINATED WITH & WITNESSED BY THE DIRECTOR OF MAINTENANCE.

46. EMBEDMENT REQUIREMENTS NOTED ON THESE PLANS ARE TO BE STRICTLY ADHERED TO.

47. STORM SEWER MATERIAL SHALL BE REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLYETHYLENE CORRUGATED PIPE (HDPE) AS NOTED ON PLANS. CONCRETE PIPE SHALL BE PER ASTM C76, WALL B, CLASS III AND/OR CLASS IV, RUBBER GASKETED JOINT MEETING ASTM C443. HDPE PIPE SHALL BE PER AASHTO M252 (4"-10"), AASHTO M294 (12"-60") AND ASTM F2306 (12"-60") TYPE S, WITH A WATER TIGHT REINFORCED INTEGRAL BELL AND SPIGOT FOR RUBBER GASKETED JOINTS MEETING ASTM D2321 (ADS N-12, WT WATER TIGHT). BACK FILL OF HDPE SHALL BE CEMENT STABILIZED SAND.

48. ALL NECESSARY ADJUSTMENTS TO UTILITY RELATED ITEMS (IE: WATER METERS, VALVE BOXES, GAS METERS, VALVE BOXES, MONITORING WELLS, MANHOLES, ETC.) ARE TO BE SUBSIDIARY. COSTS TO BE INCLUDED IN BID.

49. VERIFY LOCATION AND GRADE OF STORM SEWER TIE-INS PRIOR TO CONSTRUCTION TO ENSURE NO CONFLICTS WITH OTHER UTILITIES & PROPOSED DRAINAGE SYSTEM. REPORT ELEVATIONS OF ALL TIE-IN LOCATIONS TO THE ENGINEER.

2 50. THE UNADJUSTED CUT / FILL TO TOP OF PAVEMENT= 17,430 CUBIC YARDS (CUT) / 24,162 CUBIC YARDS (FILL). NET CHANGE 6,732 CUBIC YARDS (FILL). CONTRACTOR TO APPLY SHRINK / SWELL FACTORS & REMOVE PAVEMENT VOLUME.

General Notes Continued 6

1. SUBGRADE SHALL BE PREPARED WITH A MINIMUM 6" THICKNESS, STABILIZED WITH LIME (6%, BY WEIGHT) PER THESE SPECIFICATIONS/PLANS, AND COMPACTED TO A MINIMUM OF 98% STANDARD EFFORT. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL APPLICABLE STABILIZATION REQUIREMENTS.

2. ASPHALT DESIGN SHALL CONFORM TO TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES (LATEST EDITION).

3. CONCRETE DESIGN, MATERIALS, AND WORKMANSHIP TO CONFORM TO THE CURRENT EDITION OF THE FOLLOWING STANDARDS UNLESS OTHERWISE MODIFIED ON THE DRAWINGS IN THE SPECIFICATIONS:
ACI 318-02 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
ACI 315-99 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
TXDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES (LATEST EDITION)

4. MATERIALS TO BE AS FOLLOWS: ASPHALT - TYPE D ASPHALT SURFACE COURSE
CONCRETE - 28-DAY COMPRESSIVE STRENGTH = 3,500 PSI
REINFORCING STEEL - ASTM A615, GRADE 60

5. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL, UNLESS OTHERWISE SHOWN:
3" - CONCRETE CAST DIRECTLY AGAINST THE GROUND
2" - FORMED SURFACES OR TOP OF FINISHED SURFACES

6. LAP REINFORCING STEEL IN ACCORDANCE WITH ACI 318-02 (CLASS B). ALL DOWELS SHOULD BE PLACED STRAIGHT IN CONCRETE (NO BENDING) BY USING A DOWEL BASKET, ETC.

7. PAVING CONSTRUCTION IS NOT TO PROCEED UNTIL UTILITY CONSTRUCTION IS SUCCESSFULLY TESTED, NEW SYSTEM IS OPERATING.

8. EXCESS DIRT FROM EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR MAY RETAIN DEMOLISHED PAVEMENT, IF DESIRED. CONTRACTOR SHALL REMOVE/DISPOSE OF ALL DEMOLISHED PAVEMENT FROM SITE.

9. ROAD CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT STANDARDS WHERE APPLICABLE) AND THESE SPECIFICATIONS/PLANS.

10. PAVEMENT TIE-INS TO EXISTING PAVEMENT TO BE SUBSIDIARY TO THE PERTINENT BID ITEMS, SHALL BE SLOPED TO MATCH ADA AND PROJECT SPECIFICATIONS, AND SLOPED TO ENSURE PROPER DRAINAGE.

11. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PAVEMENT TIE-IN ELEVATIONS PRIOR TO CONSTRUCTION TO ENSURE THAT TRANSITION FROM EXISTING TO NEW PAVEMENT IS FLUSH AND SMOOTH. CONTRACTOR SHALL REPORT DISCREPANCIES WITH TIE-IN ELEVATIONS TO PROJECT ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT PROCEED WITHOUT DIRECTION TO RESOLVE THE DISCREPANCIES FROM THE PROJECT ENGINEER. IF THE CONTRACTOR CONSTRUCTS THE NEW PAVEMENT WITHOUT DIRECTION FROM THE PROJECT ENGINEER AND THE PAVEMENT IS OUT OF COMPLIANCE, THE CONTRACTOR SHALL REMOVE AND REPLACE THE PAVEMENT REQUIRED TO MAKE THE NEW PAVEMENT COMPLIANT AT THE CONTRACTOR'S EXPENSE.

12. COORDINATE CONSTRUCTION CLOSELY WITH DISTRICT REPRESENTATIVE AND PROJECT ENGINEER TO ASSURE THAT THERE ARE NO CONFLICTS BETWEEN GRADING, DRAINAGE AND PAVING IMPROVEMENTS.

13. PROPOSED PAVEMENT ELEVATIONS SHOWN ARE TOP OF FINISHED PAVEMENT (P), OR CURB (T) AS NOTED. PROPOSED FLOWLINE ELEVATIONS ARE NOTED (FL). PROPOSED TOP OF WALL ELEVATION ARE NOTED (TW).

14. PROVIDE EXPANSION JOINTS AND CONTROL JOINTS IN ACCORDANCE WITH CONSTRUCTION PLANS, SPECIFICATIONS AND DETAILS. CURB AND GUTTER SHALL HAVE 1/2" PREMOLDED OR 3/4" REDWOOD OR CYPRESS EXPANSION JOINT AS DETAILED (UNLESS NOTED OTHERWISE) AND SHALL HAVE GROOVED CONTROL JOINTS AS DETAILED. ALL JOINTS WILL BE SEALED IN ACCORDANCE W/ TECHNICAL SPECIFICATIONS. EXPANSION JOINTS FOR CURB AND GUTTER SHALL MATCH EXPANSION JOINTS IN STREET.

15. ALL FORMS MUST BE WELL STAKED AND THOROUGHLY BRACED SO THAT TAMPING OF MATERIALS WILL NOT DISTURB THEM OR MOVE THEM OUT OF LINE. CHAIRS ARE REQUIRED TO HOLD REINFORCEMENT IN PLACE. ROCKS, BRICKS OR OTHER FOREIGN MATERIAL IS PROHIBITED.

16. CARE MUST BE TAKEN THAT THE CURB AND GUTTER SHALL NOT SHOW TROWEL MARKS, HIGH SPOTS, SAGS OR HORIZONTAL DEFLECTIONS. ANY SECTION SHOWING SAME AFTER BEING FINISHED WILL NOT BE ACCEPTED BY THE DISTRICT AND MUST BE REPLACED BY THE CONTRACTOR. OTHER CONCRETE IMPERFECTIONS ON ROADWAY, SIDEWALK, & OTHER STRUCTURES ARE TO BE HANDLED IN SIMILAR FASHION TO ENSURE HIGH QUALITY.

17. THE COMPLETED CONCRETE PAVEMENT SHALL BE CURED BY A METHOD APPROVED BY THESE SPECIFICATIONS. LIQUID MEMBRANE CURING COMPOUND WHICH COMPLIES WITH THE "STANDARD SPECIFICATIONS FOR LIQUID MEMBRANE FORMING COMPOUNDS FOR CURING CONCRETE", ASTM C309 TYPE 2 WHITE PIGMENTED MAY BE USED.

18. TRAFFIC PAINT SHALL BE APPLIED ONLY AFTER PAVEMENT HAS BEEN PRIMED AND THOROUGHLY CLEANED PER TECHNICAL SPECIFICATIONS AT TIME OF APPLICATION TO REMOVE CURING COMPOUND. CONTRACTOR TO CONFIRM THERE ARE NO ISSUES W/ PAVING NOTE #16 PRIOR TO PAINTING/STRIPING.

Paving Notes 5

Texas 811
Know what's below.
Call 811 Before You Dig

Utility Locate Service N.T.S. 4

Project Control List

NO.	DESCRIPTION	ELEV./COORD.
1	"X" IN CONCRETE ON THE SOTUWESTERN CORNER OF THE INTERSECTION OF QUINN ROAD AND DOVE TRAIL APPROXIMATELY 54' IN A WESTERLY DIRECTION FROM A GAS VALVE LOCATED ON THE EASTSIDE OF QUINN ROAD, AND APPROXIMATELY 53' IN A NORTHWESTERLY DIRECTION FROM A PEDESTRIAN CROSSING SIGN LOCATED ON THE EASTSIDE OF QUINN ROAD.	ELEV: 196.579' N: 13964595.5490 E: 3034231.3120
2	"X" CUT IN CURB LOCATED ON THE WEST SIDE OF THE BUS BARN WORKSHOP LOCATED APPROXIMATELY 93' IN A WESTERLY DIRECTION FROM THE NORTHWEST CORNER OF THE WORKSHOP, AND APPROXIMATELY 97' IN A SOUTHEASTERLY DIRECTION FROM NORTHWEST FENCE CORNER LOCATED ALONG QUINN ROAD.	ELEV: 196.289' N: 13965535.6390 E: 3034346.5590
3	"X" CUT IN CONCRETE LOCATED ON THE EAST SIDE OF THE BUS BARN WORKSHOP IN A CONCRETE ISLAND APPROXIMATELY 258' IN A EASTERLY DIRECTION FROM THE NORTH EAST CORNER OF THE WORKSHOP, AND APPROXIMATELY 21' IN A NORTHERLY DIRECTION FROM A SANITARY SEWER MANHOLE LOCATED IN THE EAST SIDE PARKING LOT.	ELEV: 195.177' N: 13965582.8150 E: 3034859.2060
4	"X" IN CONCRETE ON THE SOUTH SIDE OF THE BUS BARN WORKSHOP APPROXIMATELY 139' IN A SOUTHEASTERLY DIRECTION FROM THE SOUTHEAST CORNER OF THE WORKSHOP BUILDING CORNER, AND APPROXIMATELY 8' IN A NORTHWESTERLY DIRECTION FROM THE CURB INLET MANHOLE LOCATED SOUTHEAST FROM THE BUS BARN WORKSHOP.	ELEV: 391.49 N: 10524062.3900 E: 3623561.2320

Bench Mark List

NO.	DESCRIPTION	ELEV./COORD.
1	TOMBALL ISD ALUMINUM DISC IN CONCRETE LOCATED ON THE NORTH WEST SIDE OF THE BUS BARN WORKSHOP APPROXIMATELY 140' IN A NORTHWESTERLY DIRECTION FROM THE NORTHWEST CORNER OF THE WORKSHOP, AND APPROXIMATELY 37' IN A SOUTHEASTERLY DIRECTION FROM NORTHWEST CHAIN LINK FENCE CORNER ALONG QUINN ROAD.	ELEV: 197.73 N: 13965586.0400 E: 3034307.8930
2	TOMBALL ISD ALUMINUM DISC IN CONCRETE LOCATED ON THE SOUTHWEST SIDE OF THE BUS BARN PARKING LOT APPROXIMATELY 353' IN A SOUTHWESTERLY DIRECTION FROM THE FUEL STORAGE TANKS, AND APPROXIMATELY 102' IN A NORTHWESTERLY DIRECTION FROM A LIGHT POLE LOCATED ON THE OUTSIDE OF THE SOUTHWEST END OF THE BUS BARN PARKING LOT.	ELEV: 197.02 N: 13965008.7000 E: 3034359.6640
3	TOMBALL ISD ALUMINUM DISC IN CONCRETE LOCATED ON THE SOUTHEAST SIDE OF THE BUS BARN PARKING LOT APPROXIMATELY 265' IN A SOUTHEASTERLY DIRECTION FROM THE 24" RCP AT THE SOUTH EAST END OF THE BUS BARN PARKING LOT, AND APPROXIMATELY 220' IN A SOUTHEASTERLY DIRECTION FROM THE STORM DRAIN MANHOLE LOCATED ON THE OUTSIDE OF THE SOUTHEAST END OF THE BUS BARN PARKING LOT.	ELEV: 194.42 N: 13964823.4200 E: 3035059.9390
4	TOMBALL ISD ALUMINUM DISC IN CONCRETE LOCATED ON THE NORTHEAST SIDE OF THE BUS BARN PARKING LOT APPROXIMATELY 452' IN A EASTERLY DIRECTION FROM THE NORTHEAST CORNER OF THE BUS BARN WORKSHOP, AND APPROXIMATELY 86' IN A SOUTHEASTERLY DIRECTION FROM THE FIRE HYDRANT LOCATED ON THE WEST SIDE OF THE NORTHEASTERN BUS BARN PARKING LOT DRIVEWAY.	ELEV: 194.79 N: 13965564.4800 E: 3035055.6380

NOTE:
DEMOLITION AND CONSTRUCTION ACTIVITIES MAY DAMAGE OR KNOCK-OUT THE PROJECT CONTROL & BENCHMARKS THAT ARE LISTED ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT PROJECT CONTROL BEFORE STARTING DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING PROJECT CONTROL & BENCHMARKS. CONTRACTOR SHALL USE THE PROJECT CONTROL PROVIDED IN THE PLANS TO SET THEIR OWN CONTROL (HORIZONTAL AND VERTICAL) OUTSIDE OF THE CONSTRUCTION LIMITS. THE PROJECT CONTROL PROVIDED IS SUFFICIENT FOR THE CONTRACTOR TO RE-ESTABLISH CONTROL ON-SITE, PRIOR TO DEMOLITION/CONSTRUCTION.

Bench Mark/Control Point List 3

Existing

EXISTING RIGHT-OF-WAY
SS SANITARY SEWER
W WATER LINE
G NATURAL GAS LINE
UGE UNDERGROUND ELECTRIC LINE
UGT UNDERGROUND TELEPHONE LINE
FOC UNDERGROUND FIBER OPTIC CABLE
E OVERHEAD ELECTRIC
T OVERHEAD TELEPHONE
OVERHEAD CABLE TV
CHAINLINK FENCE
BARBED WIRE FENCE
WOOD FENCE
ICV IRRIGATION CONTROL VALVE
FIRE HYDRANT
WV WATER VALVE
SANITARY SEWER MANHOLE
CO SANITARY SEWER CLEANOUT
PP POWER POLE
GUY WIRE
WM WATER METER
TBX TELEPHONE BOX
GM GAS METER
TP TELEPHONE POLE
GV GAS VALVE
MB MAILBOX
BM#2 BENCH MARK
CP#15 CONTROL POINT
ASPHALT
GRAVEL
CONCRETE
TREE

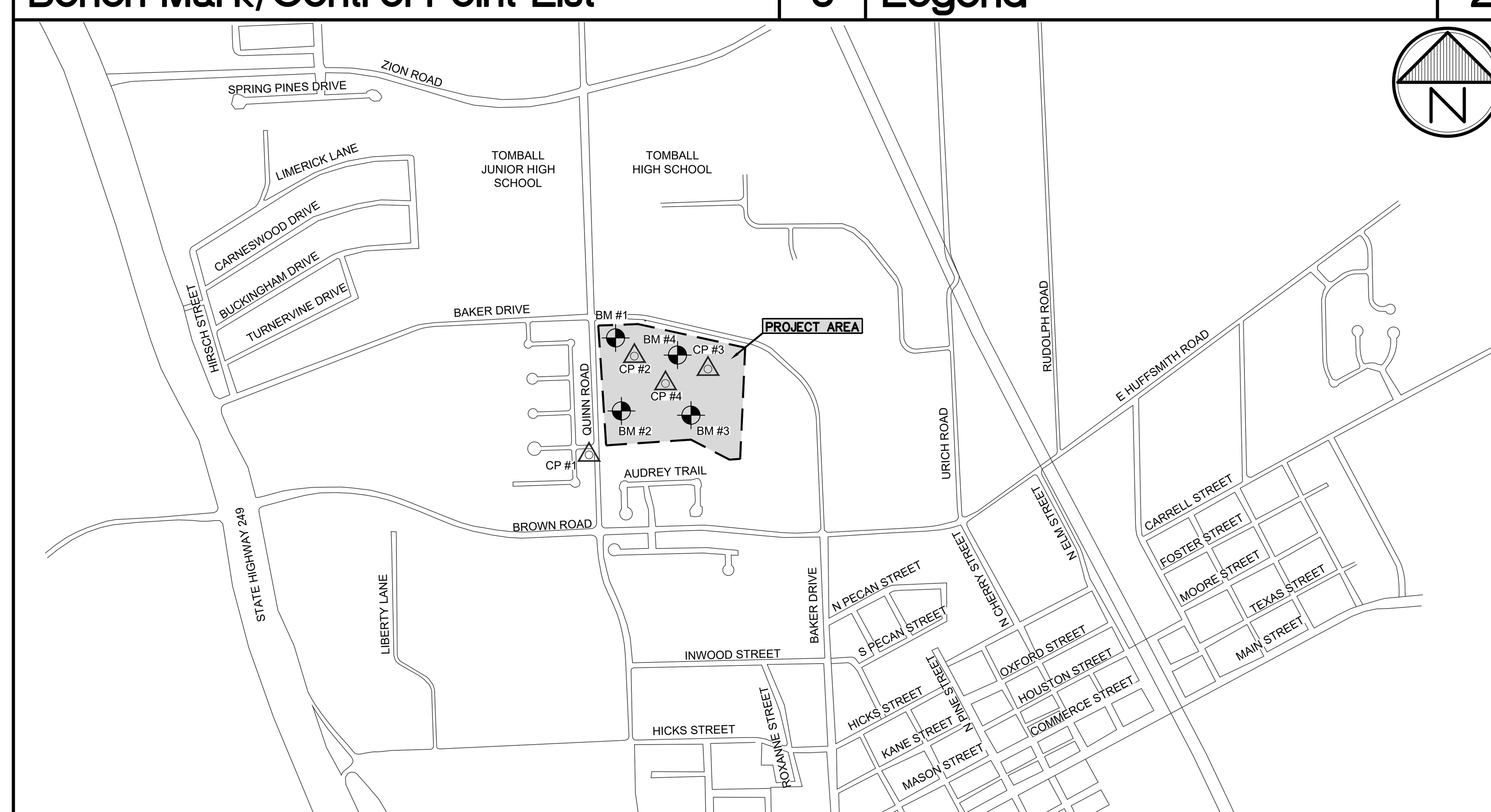
Proposed

LIGHT POLE
MANHOLE
CO CLEANOUT
UGE UNDERGROUND ELECTRIC
E OVERHEAD ELECTRIC
G GAS LINE
8"SS 8" SEWERLINE (SIZE NOTED)
SEWER SERVICE TRANSFER
X LST LONG SERVICE TRANSFER
X SST SHORT SERVICE TRANSFER
12"W 12" WATERLINE (SIZE NOTED)
WATER SERVICE TRANSFER
STORM SEWERLINE (SIZE NOTED)
STORM SEWER INLET (SIZE NOTED)
SIGN (TYPE NOTED)
CONCRETE SIDEWALK PAVEMENT
HYD STANDARD FIRE HYDRANT ASSEMBLY
WV GATE VALVE
WM WATER METER

G=GROUND
T=TOP OF CURB
P=TOP OF PAVEMENT
FL=FLOW LINE

NOTE: LEGENDS WITHIN SPECIFIC SECTIONS APPLY ONLY TO THOSE SECTIONS. THE ITEMS LISTED ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE.

Legend 2



Vicinity Map 1"=1000'-0" 1

#	DATE	REVISIONS
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

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DRAWN BY: TW APPV'D BY: MH ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED PROFESSIONAL ENGINEER
Michael Holmes
5/18/2026

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Project Notes & Information

JOB NUMBER 364003

SHEET NO.

C0.01

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT THE CITY OF TOMBALL A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK.
2. CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS AND OTHER PERMANENT OBJECTS.
3. TREES WITHIN THE STREET RIGHT-OF-WAY SHALL NOT BE REMOVED OR DISTURBED, EXCEPT WHERE CALLED OUT TO BE REMOVED. WHERE TREE ROOTS MUST BE CUT, FOLLOW THE REPAIR METHODS DESCRIBED IN THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT NUISANCE OR SAFETY HAZARD IN ANY STREETS, PUBLIC OR PRIVATE. CLEAN UP OF STREETS SHALL BE PERFORMED AS NECESSARY.
5. ANY AREA OF GRASS, WHICH IS DISTURBED OR DUG UP DURING CONSTRUCTION, SHALL BE REPLACED WITH SEED OR SOD.
6. ALL NON ACTIVE EXPOSED AREAS OF EXCAVATION SHALL BE COVERED WITH STEEL SHEETING WHEN IN PAVED AREAS. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AND TRAFFIC BARRICADES AROUND ALL OTHER EXPOSED AREAS OF EXCAVATION.
7. EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS AND LANDSCAPING DAMAGED OR REMOVED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION BY THE CONTRACTOR AT THEIR EXPENSE.
8. WHEN ANY STREET OR ANY SECTION OF A STREET IS CLOSED, THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, WARNING AND DIRECTING SIGNS, RED FLAGS AND LIGHTS AT THE END OF EACH STREET AND AT ALL INTERSECTIONS ALONG THE STREET WITHIN THE LIMIT OF THE WORK AREA. ALL EXPENSE INCURRED FOR THE ABOVE REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR. ALL WARNING SIGNS AND BARRICADES SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR TO NOTIFY PROPER AUTHORITIES A MINIMUM OF 48 HOURS PRIOR TO ANY STREET OR PARTIAL STREET CLOSING
9. CONTRACTOR SHALL PROVIDE THE CITY OF TOMBALL ONE SET OF (RECORD) DRAWINGS AS PER SPECIFICATIONS.
10. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENDING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM FAILURE TO LOCATE AND PRESERVE UNDERGROUND UTILITIES.
11. IN ACCORDANCE WITH TEXAS STATE LAW THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING TEXAS 811 AT LEAST 48 HOURS PRIOR TO COMMENDING CLEARING OR EXCAVATION.
13. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING AS SPECIFIED.
14. EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION.
15. CONDITION OF THE FACILITIES, UPON COMPLETION OF JOB, SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK. THE CONTRACTOR SHALL RESTORE ALL GRADES AND LANDSCAPING TO PRECONSTRUCTION CONDITIONS AND RE-ESTABLISH TURF AREAS DAMAGED BY THE CONSTRUCTION ACTIVITIES UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY CONSTRUCTION BY MEANS OF ANCHORED STEEL PLATES, BY BACKFILLING IMMEDIATELY AFTER CONSTRUCTION, AND/OR BY PLACING SHELL OR LIMESTONE SURFACES FOR TEMPORARY DRIVEWAY PURPOSES. CONTRACTOR'S ATTENTION IS DIRECTED TO HS-20 LOAD RATED ACCESS REQUIREMENTS FOR ALL SUCH AREAS.
17. ALL EXCESS DIRT FROM EXCAVATION SHALL BE DISPOSED OF OFFSITE BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
18. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS INCLUDING HARRIS COUNTY, TXDOT AND CITY OF TOMBALL.
19. CONTRACTOR TO REMOVE ALL TRASH, EXCESS MATERIAL, DEBRIS, ETC. FROM THE SITE UPON COMPLETION OF THE PROJECT PRIOR TO INSPECTION AND APPROVAL BY THE APPROVING AGENCIES.
20. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 6 FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATION, TITLE 29, PART 1910.190(L) AND PART 1926.440(A)(15) REQUIRE A MINIMUM CLEARANCE OF 10 FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL 713-207-7777 FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE.
21. CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL CONTROL. REFERENCE POINTS AND CONSTRUCTION STAKING IS INCIDENTAL TO THE PROJECT.
22. SIDEWALKS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 40, SECTION 40-65(i), THE COMPREHENSIVE PLAN, AND THE LIVABLE CENTERS STUDY.
23. EACH CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE PROPOSED WORK.
24. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF ALL POWER/TELEPHONE POLES AND CORRESPONDING GUY WIRES WITHIN FIFTEEN (15) FEET OF PROPOSED WORK. CONTRACTOR SHALL REPAIR DAMAGED POLES AND GUY WIRES AS REQUIRED BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER.
25. CITY OF TOMBALL NORMAL WORKING HOURS ARE MONDAY THROUGH FRIDAY FROM 7 AM TO 5 PM, EXCEPT CITY OBSERVED HOLIDAYS. THE CONTRACTOR SHALL NOT BE PERMITTED TO CLOSE LANES OR DO ANY WORK THAT REQUIRES THE SERVICE OR INSPECTION OF THE CITY OUTSIDE OF THE NORMAL WORKING HOURS UNLESS LISTED IN THE PERMIT. THE CONTRACTOR WITH THE PERMITSSION OF THE CITY OF TOMBALL MAY BE PERMITTED TO WORK OUTSIDE OF THE NORMAL WORK HOURS FOR CLEAN-UP ACTIVITIES OR OTHER SUCH ITEMS THAT DO NOT ADVERSELY IMPACT TRAFFIC, RESIDENTS, BUSINESSES OR CITY SERVICES.

WASTEWATER NOTES

1. ALIGNMENT, CENTERLINE CURVE DATA, AND STATIONING TO BE DETERMINED FROM APPROVED, RECORDED SUBDIVISION PLAT OR ROAD RIGHT-OF-WAY.
2. SEWER MAINS, MANHOLES AND LIFT STATIONS ARE TO BE DESIGNED, TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH CITY OF TOMBALL STANDARDS AND TCEQ TITLE 30 CHAPTER 217 OF THE TEXAS ADMINISTRATIVE CODE. TAC' 217.2 REQUIRES LOW-PRESSURE AIR TESTS TO CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C828, C924, F-1417 OR OTHER APPROPRIATE PROCEDURES. FOR SAFETY REASONS, AIR TESTING OF SECTIONS OF PIPE SHALL BE LIMITED TO LINES LESS THAN 36-INCH AVERAGE INSIDE DIAMETER. LINES 36-INCH IN DIAMETER OR LARGER MAY BE AIR TESTED AT EACH JOINT. DEFLECTION TESTING OF ALL FLEXIBLE AND SEMI-RIGID PIPE SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE FOR AT LEAST 30 DAYS. RIGID PIPE SHALL NOT EXCEED A DEFLECTION OF 1%. FLEXIBLE PIPE SHALL NOT EXCEED A DEFLECTION OF 5%. THE DEFLECTION TEST IS TO BE RUN USING A RIGID MANDREL, AND SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. ALL TESTS TO BE WITNESSED & APPROVED BY CITY OF TOMBALL.
3. MAINTAIN 12 INCH MINIMUM CLEARANCE AT CROSSINGS BETWEEN ALL OTHER UTILITY LINES, STORM SEWERS, AND CULVERTS UNLESS OTHERWISE NOTED.
4. SEWER TRENCHES UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT TO BE BACKFILLED WITH CEMENT SAND (1.5 SACKS PER TON) BACKFILL AS SPECIFIED, TO WITHIN ONE (1) FOOT OF SUBGRADE, BEDDING WILL BE CLASS AAA WHERE CEMENT-SAND BACKFILL IS USED FOR SANITARY SEWERS. INCLUDE COST OF BACKFILL IN UNIT PRICE BID PER LINEAR FOOT OF PIPE.
5. UNLESS OTHERWISE NOTED ALL PROPOSED GRAVITY WASTEWATER MAINS 8" TO 15" SHALL BE PVC PIPE (ASTM D3034 OR D2241 SDR 26). ALL PROPOSED GRAVITY WASTEWATER MAINS 18" TO 36" SHALL BE PVC PIPE (ASTM F679 PS 115).
6. FOR PVC PIPE, USE MANHOLE WATERSTOP GASKET AND CLAMP ASSEMBLY AT MANHOLE CONNECTIONS (NO SEPARATE PAY).
7. SANITARY SEWER MANHOLES SHALL BE PRECAST OR POURED IN PLACE MONOLITHIC CONCRETE, AND BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER YARD) AS SPECIFIED (NO SEPARATE PAY). MANHOLES WILL BE VACUUM TESTED AS SPECIFIED BY THE CITY OF TOMBALL.
8. ALL SERVICE LEADS SHALL BE FOUR (4) INCHES OR SIX (6) INCHES AT 1.0% MINIMUM SLOPE. ALL FAR SIDE LEADS (OPEN-CUT OR BORED AND JACKED) SHALL CONFORM TO ASTM D1784 (SCHEDULE 80), ASTM D2241 (SDR 26) OR ASTM D3034 (SDR 26).
9. STUBS OR LEADS SERVING TWO LOTS SHALL HAVE A SERVICE WYE WITH TEMPORARY PLUGS. THE WYE SHALL BE LOCATED WITHIN THE STREET RIGHT-OF-WAY OR AN ADJOINING UTILITY EASEMENT.
10. MANHOLE RIMS ARE TO BE SET AT THE ELEVATIONS SHOWN ON THE PLANS INITIALLY, AFTER PAVING AND GRADING IS COMPLETED, RIMS ARE TO BE ADJUSTED TO THREE (3) TO SIX (6) INCHES ABOVE FINAL GRADE AND GRADE SOIL SO AS TO PROVIDE DRAINAGE AWAY FROM MANHOLE.
11. ALL PVC PIPE SHALL HAVE RUBBER GASKET EQUIPPED BELL AND SPIGOT JOINTS. SOLVENT WELDED JOINTS SHALL NOT BE CONSIDERED AN ACCEPTABLE MATERIAL.
12. ALL GRADE CHANGES AT MANHOLES IN EXCESS OF 2 FEET SHALL BE ACCOMPLISHED WITH DROP MANHOLE CONNECTIONS.
13. CONTRACTOR TO FURNISH CITY WITH RECORD DRAWINGS UPON COMPLETION OF PROJECT (CERTIFIED BY ENGINEER).
14. ALL MANHOLES SHALL BE LINED WITH RAVEN LINING 405 EPOXY LINER OR APPROVED EQUAL WITH 100 MILS MINIMUM THICKNESS.
15. THE CONTRACTOR SHALL BE ENSURE THAT NO OVERFLOWS OR SPILLAGE OF SEWAGE OCCURS. THE PERSON IDENTIFIED WITH THIS RESPONSIBILITY SHALL BE ON-SITE WHEN ACTIVITIES THAT COULD RESULT IN A SPILL OR OVERFLOW ARE BEING PERFORMED. SHOULD AN OVERFLOW OR SPILL OCCUR, THE CONTRACTOR SHALL IMMEDIATELY:
    - 15.1. IDENTIFY THE SOURCE OF THE SPILL, ATTEMPT TO STOP AND ELIMINATE ANY ADDITIONAL SPILLAGE OR OVERFLOW,
    - 15.2. NOTIFY THE CITY OF TOMBALL CITY PUBLIC WORKS DEPARTMENT (281) 290-1400,
    - 15.3. CONTAIN THE SPILL IN PLACE AND PREVENT CONTAMINATION OF STREAMS AND WATERWAYS,
    - 15.4. CLEAN UP THE SPILL AND DISPOSE OF CONTAMINATED MATERIALS,
    - 15.5. DISINFECT THE AREA WITH A MIXTURE OF HTH CHLORINE AND WATER,
    - 15.6. IDENTIFY AND TRAIN CONTRACTOR'S PERSONNEL RESPONSIBLE FOR SPILL PREVENTION AND CONTROL,
    - 15.7. ALL WORK PERFORMED IN RELATION TO A SPILL SHALL BE IN CONFORMANCE WITH TCEQ REGULATIONS AND AT NO ADDITIONAL COST TO THE CITY OF TOMBALL
16. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND MARKING ALL STACKS AND SERVICE LEADS AFTER THE PAVING IS COMPLETE. A ¼ -INCH DEEP NOTCH SHALL BE CUT IN THE CURB AND PAINTED WITH A RED LINE ADJACENT TO THE STACK OR LEAD. IF STAKES ARE LEFT IN THE GROUND AT THE STACKS AND LEADS AFTER CONSTRUCTION OF UTILITIES, THEN AN EFFORT WILL BE MADE TO PRESERVE THEM DURING PAVING CONSTRUCTION. HOWEVER, IF THESE STAKES ARE KNOCKED OUT FOR ANY REASON, THE UTILITY CONTRACTOR REMAINS RESPONSIBLE FOR LOCATING AND MARKING THE FACILITIES AS DESCRIBED ABOVE.

WATER NOTES

1. ALIGNMENT, CENTERLINE CURVE DATA, AND STATIONING TO BE DETERMINED FROM APPROVED AND/OR RECORDED SUBDIVISION OR ROAD RIGHT-OF-WAY PLAT.
2. ALL WATER LINE CONSTRUCTION TO BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
3. ALL WATER LINES TO BE LOCATED INSIDE PUBLIC ROAD RIGHT-OF-WAYS OR PUBLIC EASEMENTS. CITY REPRESENTATIVE TO INSPECT & APPROVE PRIOR TO BACKFILL.
4. ALL WATER MAINS LESS THAN OR EQUAL TO 12" IN DIAMETER SHALL BE PVC C-900 (DR-18). ALL PROPOSED WATER MAINS GREATER THAN OR EQUAL TO 14" IN DIAMETER SHALL BE PVC C-905 (DR-18).
5. WATER MAINS TO HAVE A MINIMUM COVER OF FOUR (4) FEET. VARY FLOW LINE UNIFORMLY FROM DEPTH AND LOCATION SHOWN IN PLANS.
6. WATER LINE FITTINGS TO BE DUCTILE IRON WITH POLYETHYLENE WRAP AS SPECIFIED UNLESS OTHERWISE NOTED.
7. MAINTAIN 12-INCH MINIMUM CLEARANCE AT CROSSINGS BETWEEN ALL WATER LINES AND ALL UTILITIES INCLUDING STORM SEWERS AND CULVERTS UNLESS OTHERWISE NOTED.
8. WATER LINES SHALL BE SAND-BEDDED AS SHOWN IN THE CITY OF TOMBALL DETAILS. (COT-WA-02) ALL WATER LINES TO BE INSPECTED BY CITY OF TOMBALL PRIOR TO BACKFILL.
9. WATERLINE TRENCHES UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED PER THE CITY OF TOMBALL DETAILS (COT-WA-02).
10. ALL 2" THRU 12" GATE VALVES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH AWWA C509 DOUBLE SEATED RESILIENT SEAT GATE VALVES AND SHALL OPEN IN A COUNTER CLOCKWISE DIRECTION ONLY. VALVES ON ALL TAPPING SLEEVES ARE TO BE OF THE SAME TYPE.
11. VALVES TO BE LOCATED OPPOSITE PROPERTY CORNER WHERE APPROPRIATE.
12. ALL VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER PAVING/GRADING IS COMPLETE.
13. ALL FIRE HYDRANTS SHALL BE MUELLER CENTURION OR AMERICAN DARLING. EQUIP EACH FIRE HYDRANT WITH TWO (2) TWO AND ONE-HALF (2 ½) INCH NOMINAL INSIDE DIAMETER HOSE NOZZLES AND ONE (1) FIVE AND ONE-QUARTER (5 ¼) INCH NOMINAL INSIDE DIAMETER PUMPER NOZZLE WITH NATIONAL STANDARD THREADS ON EACH NOZZLE. SUPPLY STORZ CONNECTOR & PRESSURE CAP FOR PUMPER NOZZLE.
14. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURES SPECIFIED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE CITY OF TOMBALL.
15. ALL WATER LINE TESTING SHALL BE WITNESSED AND APPROVED BY THE CITY OF TOMBALL.
16. TWELVE (12) GAUGE LOCATOR WIRE TO BE INSTALLED ON ALL WATER LINES, GAS LINES AND FORCE MAINS. TO BE ACCESSIBLE AT VALVE STACKS.
17. ALL TS&V SHALL BE FULL BODY - CAST IRON OR APPROVED STAINLESS STEEL OR DUCTILE IRON.
18. ONE (1) WATER SAMPLE PER 1000 FEET SHALL BE SUBMITTED TO A TEXAS DEPARTMENT OF HEALTH APPROVED LABORATORY AND SHALL BE FREE OF ANY CONTAMINATES, PRIOR TO BEING PUT IN SERVICE.
19. DISINFECTION OF NEW AND REPAIRED WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY, WHICH MIGHT LEAD TO CONTAMINATION OF WATER, SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE. (NON PAY ITEM)
20. ALL WATER AND WASTEWATER CROSSINGS SHALL CONFORM TO TCEQ CHAPTER 217 AND 290 SEPARATION REQUIREMENTS.
21. ALL VALVE BOXES SHALL BE ERECTED PLUMBED & BE FREE OF DEBRIS.
22. PROVIDE BACKFLOW PREVENTOR BASED ON APPROPRIATE APPLICATIONS (I.E. IRRIGATION, DOMESTIC, FIRE)
23. ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN MINIMUM 8 MIL POLYETHYLENE WRAP.

PAVEMENT NOTES

1. ALL INTERSECTIONS WHERE A STOP SIGN IS LOCATED SHALL HAVE A STOP BAR. STOP BARS SHALL BE LOCATED WHERE PEDESTRIAN CROSSWALKS ARE PROVIDED, 1'-4" BEHIND CROSSWALKS.
2. STOP BARS SHALL BE 24" WIDE, AND CONSIST OF SOLID WHITE LINES EXTENDING ACROSS APPROACH LANES TO INDICATE THE POINT AT WHICH THE STOP IS INTENDED OR REQUIRED TO BE MADE.
3. ON APPROACH - BEGINNING WITH STOP BAR, INSTALL A 4" WIDE SOLID WHITE LINE FOR 50 FT BACK FROM STOP BAR SKIP 25' AND BEGIN NORMAL LANE LINES.
4. ON EXIT - BEGINNING WITH CROSSWALK, OR 12' FROM CURB LINE OF INTERSECTING STREET, INSTALL A 4" WIDE SOLID WHITE LINE FOR 50 FT., AND BEGIN NORMAL LANE LINE.
5. CROSSWALKS SHALL BE A MINIMUM INSIDE WIDTH OF 5' (FT.). AT LOCATIONS WHERE ADDITIONAL VISIBILITY IS REQUIRED, WHERE TRAFFIC CONTROL DEVICES ARE NOT PRESENT, AND IN SCHOOL ZONES CONTINENTAL CROSSWALKS SHALL BE USED.
6. ALL PAVEMENT MARKINGS AT INTERSECTIONS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH COT APPROVED PRODUCT LIST.
7. PAVEMENT MARKINGS MUST BE SHOWN ON THE APPROVED CONSTRUCTION PLANS. ALL PAVEMENT MARKINGS MUST BE RETRO-REFLECTIVE MATERIAL APPLIED TO THE ROAD SURFACE IN A MOLTEN STATE BY SCREED/EXTRUSION, SUSPENDED EXTRUSION, OR SPRAY MEANS, WITH A SURFACE APPLICATION OF GLASS BEADS.
8. THE COLOR OF RAISED PAVEMENT MARKERS UNDER BOTH DAYLIGHT AND NIGHTTIME CONDITIONS SHALL CONFORM TO THE COLOR OF THE MARKING FOR WHICH THEY SERVE AS A POSITIONING GUIDE OR FOR WHICH THEY SUPPLEMENT OR SUBSTITUTE.
9. ALL TRAFFIC BUTTONS AND MARKERS SHALL BE INSTALLED ADJACENT TO STRIPES (APPROX. 2").
10. ALL BUTTONS SHALL BE INSTALLED WITH AN APPROVED EXPOXY.
11. A BLUE REFLECTORIZED BUTTON SET 6" OFF CENTERLINE OF ROADWAY SHALL BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS.
12. PAVEMENT SURFACE AREAS PRIOR TO PLACEMENT OF PAVEMENT MARKINGS, AND/OR RAISED PAVEMENT MARKERS SHALL BE CLEANED IN ACCORDANCE WITH C.O.M.C. STANDARDS. CONCRETE SURFACES SHALL BE CLEANED BY ABRASIVE BLASTING MEDIUM. ASPHALT PAVEMENT SURFACES SHALL BE CLEANED BY BRUSHING, WASHING, COMPRESSED AIR, AND/OR HIGH-PRESSURE WATER. AREAS MUST BE FREE OF CURING MEMBRANCE, DIRT, GREASE, LOOSE AND/OR FLAKING EXISTING MARKERS AND OTHER FORMS OF DEBRIS.
13. ALL ESPLANADE NOSES, AND CURBS IN LEFT TURN BAY'S SHALL BE BRICK STAMPED OR PAVERS AND SHALL COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC DEVICES, A.D.A., T.A.S., AND COT STANDARDS AND ALL REVISIONS THEREOF.
14. ALL ROADWAYS WITHOUT CURB SHALL HAVE A SOLID 4" WHITE REFLECTORIZED STRIPE 12" INSIDE THE EDGE OF PAVEMENT.
15. WITHIN A TANGENT SECTION THE TYPE I-C PAVEMENT MARKERS CAN BE PLACED AT 40' C-C ON ROADWAYS WITHOUT CURB AND GUTTERS.
16. ALL STREET CROSSINGS SHALL COMPLY WITH T.A.S. AND A.D.A., SEE HANDICAP CROSS DETAIL.
17. ALL PAVEMENT MARKINGS, AND/OR RAISED PAVEMENT MARKERS SHALL COMPLY WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC DEVICES, A.D.A., T.A.S., AND C.O.M.C. STANDARDS AND ALL REVISIONS THEREOF.
18. ALL MARKINGS SHALL HAVE A UNIFORM CROSS-SECTION, AND THE DENSITY AND QUALITY OF THE MARKING'S SHALL BE UNIFORM THROUGHOUT THEIR THICKNESS.
19. PAVEMENT MARKING'S PLACED THAT ARE NOT IN ALIGNMENT OR SEQUENCE, AS SHOWN ON THE PLANS OR STATED IN THE PROJECT SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
20. FOR SKEW INTERSECTIONS AND STREET WIDTHS NOT SHOWN, COORDINATE WITH THE COT DEPARTMENT OF ENGINEERING & PLANNING.

STORM SEWER NOTES

1. STORM SEWER CONSTRUCTION SHALL CONFORM TO THE CITY OF TOMBALL SPECIFICATIONS FOR STORM SEWER CONSTRUCTION.
2. ALL STORM SEWER TO BE ASTM C-76, CLASS III REINFORCED CONCRETE PIPE WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM C443. CLASS IV RCP REQUIRED UNDER PAVEMENT WITH LESS THEN 2' OF COVER.
3. ALL STORM SEWER INLETS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER TON). ALL BEDDING SHALL BE CLASS "AA". ALL STORM SEWERS TO BE INSPECTED BY CITY PRIOR TO BACKFILL.
4. ALL STORM SEWER TRENCHES UNDER PROPOSED AND FUTURE PAVEMENT OR WITHIN ONE FOOT (1') FROM BACK OF CURB TO BE BACKFILLED WITH CEMENT STABILIZED SAND (1.5 SACKS PER TON) TO A POINT OF ONE FOOT (1') BELOW PAVEMENT SUBGRADE. THE REMAINING BACKFILL TO BE MADE WITH COMPACTED SELECT MATERIAL. COST OF BACKFILL AND BEDDING TO BE INCLUDED IN UNIT PRICE PER LINEAR FOOT OF PIPE.
5. HIGH DENSITY POLYETHYLENE PIPE MAY BE SUBSTITUTED ON PRIVATE PROPERTY FOR REINFORCED CONCRETE PIPE SUBJECT TO THE FOLLOWING:
    - 5.1. FOR PIPES 36" AND SMALLER - CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 7" MIN. BEDDING DEPTH. FOR SEWERS 42"-60" CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 10" MIN. BEDDING DEPTH. THE SIDES SHALL BE 12" MIN. FROM EDGE OF TRENCH TO SPRINGLINE.
    - 5.2. CEMENT STABILIZED SAND SHALL BE THOROUGHLY RODDED, PLACED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY 1'-0" ABOVE THE TOP OF PIPE, AFTER PIPE IS LAID.
    - 5.3. PIPE AND FITTINGS: THE TYPES OF PIPE WILL BE INDICATED ON THE DRAWINGS BY THE FOLLOWING DESCRIPTION CONFORMING TO AASHTO M 252, AASHTO M 294, AND/OR AASHTO MP6-95, LATEST EDITION. PIPE DESCRIPTION: CPP (CORRUGATED POLYETHYLENE PIPE).
    - 5.4. TYPE S (THIS PIPE SHALL HAVE A FULL CIRCULAR CROSS-SECTION, WITH AN OUTER CORRUGATED PIPE WALL AND A SMOOTH INNER LINE).

SIDEWALK NOTES

1. EXISTING CURB AND GUTTER TO BE SAW CUT, REMOVED AND REPLACED. DOWEL STEEL FOR MINMUM REINFORCING OVERLAP OF 10 INCHES (10") DOWELS SHALL BE EIGHTEEN INCHES (18") LONG AND EPOXIED A MINIMUM OF (8") EIGHT INCHES INTO EXISTING PAVEMNENT.
2. IF SIDEWALKS ARE NEITHER EXISTING NOR PROPOSED WHERE CURB RAMP ACCESS IS REQUIRED, CONCRETE SIDEWALKS SURFACE 4 1/2" THICK SHALL BE INSTALLED TO PROVIDE ACCESS TO THE PEDESTRIAN PUSH BUTTONS.
3. DETECTABLE WARNINGS REQUIRED BY T.A.S. SECTIONS 4.1 AND 4.7 SHALL COMPLY WITH T.A.S. SECTION 4.29
4. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACE SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE.
5. DETECTABLE WARNING SURFACE SHALL COVER THE ENTIRE WIDTH AND DEPTH OF RAMP.
6. DETECTABLE WARNINGS SHALL BE INSTALLED WITH PAVERS IN ACCORDANCE WITH MANUFACTURE'S REQUIREMENTS.
7. CONCRETE PAVER UNITS SHALL MEET ALL REQUIREMENTS OF ASTM C-935, C-33, AND SHALL BE PLACE IN A TWO BY TWO UNIT BASKET WEAVE PATTERN, UNLESS SHOWN OTHERWISE IN THE PLANS.
8. CONCRETE PAVER UNITS SHALL HAVE A TRUNCATED DOME TOP SURFACE FOR DETECTABLE WARNING TO PEDESTRIANS. DOMES SHALL BE ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.
9. CONCRETE PAVER UNIT COLOR FOR THE RAMP SHALL BE A CONTRASTING COLOR THAT PROVIDES A LIGHT REFLECTIVE THAT SIGNIFICANTLY CONTRASTS WITH THE ADJACENT SURFACES. ADJACENT SURFACES INCLUDE SIDE FLARES. COLORS OTHER THAN RED-BROWN REQUIRE COT APPROVAL.
10. CONCRETE PAVER UNITS SHALL BE SAW CUT ONLY, AND ANY CUT UNIT SHALL NOT BE LESS THAN 25% OF A FULL UNIT.
11. THE MAXIMUM WIDTH BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 20'-0"
12. EXPANSION JOINT IS TO BE 1/2" THICK CLEAR HEART REDWOOD WITH DOWELS.
13. SCORED CONTRACTION JOINTS SHALL BE EVERY 4' OR EQUAL TO WIDTH OF SIDEWALK.
14. ALL ADJACENT EARTHEN AREAS ARE TO BE SODDED UNLESS SHOWN OTHERWISE ON DRAWINGS AND APPROVED BY CITY ENGINEER.
15. 6 INCH, 5 SACK CEMENT PER CUBIC YARD CONCRETE, 3000 PSI. REINFORCED CONCRETE WITH #3 BARS, 18 INCHES O.C.E.W., FOR SIDEWALKS, #4 BARS 18' O.C.E.W. FOR CURB RAMPS IS THE MINIMUM ACCEPTED. MINIMUM 3 LONGITUDINAL BARS.
16. USE RADIUS TOOL ON ALL EXPOSED EDGES.
17. MEMBRANE CURING COMPOUND IS REQUIRED AS DESCRIBED IN COT STANDARD SPECIFICATION 02775.
18. REFER TO GENERAL NOTES AND CONCRETE/PAVING NOTES.
19. SIDEWALK EXPANSION JOINTS SHALL CONFORM TO STREET EXPANSION JOINT STANDARDS.

DRIVEWAY NOTES

1. SIDEWALK, DRIVEWAY, CURB AND GUTTER AND GRADE SHALL BE APPROVED BY ENGINEERING & PLANNING DIRECTOR.
2. SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 5.5 SACK CEMENT PER CUBIC YARD (MIN. 3000 PSI), 4 1/2" THICK, 4'-0" MINIMUM WIDTH, AND BE REINFORCED WITH # 3 @ 18" O.C.E.W.
3. DRIVEWAYS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, 5.5 SACK CEMENT PER CUBIC YARD (MIN. 3000 PSI), 6" THICK, FROM CURB TO PROPERTY LINE AND BE REINFORCED WITH MINIMUM # 3 @ 18" O.C.E.W. (16" MIN. LENGTH OF LAP) OR # 4 @ 24" O.C.E.W. (22" MIN. LENGTH OF LAP).
4. ONE-INCH BOARD EXPANSION OR 1/2" NON-EXTRUDING PREFORMED JOINT; AT INTERVALS OF 20 FT. (MAXIMUM) THROUGHOUT ENTIRE LENGTH OF SIDEWALKS, WHERE NEW WALK MEETS OLD WALK AND/OR NEW DRIVEWAY.
5. ONE-INCH BOARD EXPANSION OR 1/2" NON-EXTRUDING PREFORMED JOINT, BETWEEN SIDEWALK AND CURB, AROUND FIRE HYDRANTS AND UTILITY POLES.
6. NO WORK PRIOR TO OBTAINING A CITY OF TOMBALL DRIVEWAY PERMIT

NATURAL GAS NOTES

1. CONSTRUCTION OF NATURAL GAS PIPING SYSTEM MUST BE PERFORMED BY AN APPROVED CITY OF TOMBALL CONTRACTOR IN GOOD STANDING WITH THE CITY. ALL PERSONNEL CERTIFICATIONS MUST BE KEPT ON SITE WITH CONSTRUCTION CREW AT ALL TIMES.
2. CONTRACTOR MUST BE IN COMPLIANCE WITH CITY OF TOMBALL ANTI-DRUG AND ALCOHOL MISUSE PLAN BY PARTICIPATING IN AN APPROVED DRUG TESTING PROGRAM. PROOF OF TESTING PROTOCOLS IS REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NATURAL GAS FACILITIES AS PROPOSED IN THIS PLAN SET. ANY DEVIATIONS MUST FIRST BE APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF TOMBALL PUBLIC WORKS DIRECTOR OR DESIGNATED REPRESENTATIVE.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE MEANS, METHODS, SEQUENCE, PROCEDURES, TECHNIQUES AND/OR SCHEDULING OF ALL PORTIONS OF THE GAS WORK ARE PERFORMED SAFELY AND IN ACCORDANCE WITH CITY OF TOMBALL REQUIREMENTS, OSHA REGULATIONS, AND ANY OTHER STANDARDS OR CODES REQUIRED BY ANY OTHER REGULATORY AGENCY.
5. SHUT-INS AND/OR SYSTEM TIES ARE THE RESPONSIBILITY OF THE CITY OF TOMBALL. AT GAS REPRESENTATIVE'S DISCRETION, CONTRACTOR MAY BE ALLOWED TO TAP OR SHUT IN EXISTING MAINS, IF CONTRACTOR CAN PROVE COMPETENCY AND MAINTAINS OPERATOR QUALIFICATIONS FOR APPROPRIATE TASKS. THE CITY GAS REPRESENTATIVE MUST BE ON SITE DURING TIE-IN PROCEDURE.
6. THE CITY OF TOMBALL GAS REPRESENTATIVE MUST BE CONTACTED AS FOLLOWS:
    - 6.1. GAS CONSTRUCTION START. CONTRACTOR MUST NOTIFY GAS REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE INITIAL START OF ANY NATURAL GAS CONSTRUCTION TO SCHEDULE AN ON SITE MEETING. DURING THIS MEETING, ALL CONTRACTOR PERSONNEL CERTIFICATIONS WILL BE REVIEWED TO CONFIRM ALL CONTRACTOR PERSONNEL MEET CITY OF TOMBALL REQUIREMENTS. DELAYS WILL NOT BE PAID FOR IN THE EVENT GAS CONSTRUCTION CANNOT START DUE TO LACKING CREDENTIALS.
    - 6.2. BACKFILL. CONTRACTOR MUST NOTIFY GAS REPRESENTATIVE TO COORDINATE A TRENCH INSPECTION PRIOR TO BACKFILLING. SEE TRENCH & BACKFILL REQUIREMENTS FOR MORE INFORMATION.
    - 6.3. ENCASEMENT. CONTRACTOR MUST ALLOW GAS REPRESENTATIVE TO OBSERVE THE INSTALLATION OF THE CARRIER PIPE AND TO INSPECT ALL CASING END POINTS. SEE MINIMUM ENCASEMENT REQUIREMENTS FOR MORE DETAIL.
    - 6.4. PRESSURE TEST. CONTRACTOR MUST COORDINATE WITH GAS REPRESENTATIVE PRIOR TO PERFORMING ANY PRESSURE TESTS. PRESSURE CHARTS CAN BE FURNISHED BY EITHER THE CONTRACTOR OR THE CITY; HOWEVER, ALL CHARTS MUST BE INITIALED BY GAS REPRESENTATIVE BEFORE THE PRESSURE TEST BEGINS.
7. DRIVEWAYS WILL BE BORED, UNLESS OTHERWISE SPECIFIED IN PLANS OR AS DIRECTED BY GAS REPRESENTATIVE.
8. TREES IN OR ADJACENT TO PUBLIC RIGHTS OF WAY WHICH HAVE DRIP LINES EXTENDING INTO PUBLIC RIGHTS OF WAY AND A TRUNK CALIPER OF SIX (6) INCHES OR MORE DETERMINED BY THE CITY OF TOMBALL TO HAVE ENVIRONMENTAL OR AESTHETIC VALUE MUST BE BORED FROM DRIP LINE TO DRIP LINE.
9. EXISTING UTILITIES EXPOSED DURING TRENCHING OPERATIONS MUST BE SUPPORTED; CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES.
10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN IN THE PLANS. ADDITIONALLY, CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES.
11. CONTRACTOR MUST VISUALLY INSPECT ALL MATERIAL FOR DAMAGE BEFORE CONSTRUCTION AND PRIOR TO BACKFILLING.
12. ALL POLYFUSION MUST BE PERFORMED BY A CERTIFIED OPERATOR. POLYFUSION CERTIFICATION WILL BE CHECKED AT THE CONSTRUCTION KICKOFF MEETING.
13. CONTRACTOR IS REQUIRED TO RECORD ALL POLYETHYLENE MATERIAL SPECIFICATIONS ON POLYETHYLENE PIPE LINE DATA CHART (AS SHOWN BELOW).
14. CONTRACTOR MUST COMPLETE THE POLYETHYLENE PIPE LINE DATA CHART FOR ALL POLYETHYLENE PIPE INSTALLED IN EACH APPLICABLE SHEET (SEE THE FOLLOWING EXAMPLE):

POINT SPAN			LINE DATA	CONTRACTOR	FUSED BY	DATE INSTALLED
1	TO	2	2" IPS SDR 11 DRISCOPIPE 8100 GAS PE2406/PE100 CEE ASTM D2513 WT015 R NR 0356 A1-043 072706 COIL 0152	COMPANY X	JOHN DOE	X/X/20XX

15. CONTRACTOR IS RESPONSIBLE FOR TESTING ALL NEW FACILITIES IN ACCORDANCE WITH CITY OF TOMBALL STANDARDS. ALL TESTS MUST BE DOCUMENTED BY PRESSURE CHART AND
16. MAGNETIC WARNING TAPE AND #12 TRACER WIRE MUST BE INSTALLED ABOVE PIPE INSTALLATIONS ALONG THE TRENCH IN ACCORDANCE WITH CITY OF TOMBALL REQUIREMENTS. TRACER WIRE SHALL BE 6" ABOVE THE PIPE, AND MAGNETIC WARNING TAPE SHALL BE 6" ABOVE THE TRACER WIRE. ALL TRACER WIRE CONNECTIONS MUST BE WATER TIGHT. IN THE EVENT MAGNETIC WARNING TAPE IS ALREADY PRESENT IN THE TRENCH, CONTRACTOR MUST STRIP BACK A PORTION OF THE EXISTING TAPE AND TIE THE NEW TAPE INTO THE EXISTING.AT VALVE LOCATIONS, TRACER WIRE MUST BE INSTALLED AROUND VALVE STACKS, NOT THROUGH THEM. FOR DETAILED PLACEMENT INFORMATION, SEE TRENCH & BACKFILL REQUIREMENTS AND/OR VALVE STACK REQUIREMENTS.
17. ALL VALVES ARE TO BE INSTALLED WITH VALVE BOXES IN ACCORDANCE WITH CITY OF TOMBALL REQUIREMENTS. A SUPPORT MUST BE PLACED IN ACCORDANCE WITH THE VALVE MANUFACTURER SPECIFICATIONS.
18. PIPELINE MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH CITY OF TOMBALL REQUIREMENTS. CONTRACTOR IS REQUIRED TO PLACE MARKERS AT OR NEAR TAPS, TEES, CAPS AND AT 500' INTERVALS ALONG NATURAL GAS MAINS. FINAL PLACEMENT OF PIPELINE MARKERS IS SUBJECT TO FIELD CONDITIONS; CONTRACTOR MUST USE DISCRETION TO ENSURE APPROPRIATE LINE OF SIGHT IS ESTABLISHED WITH PIPELINE MARKERS. GAS REPRESENTATIVE MAY DETERMINE THE NEED FOR ADDITIONAL PIPELINE MARKER INSTALLATIONS.
19. TEST STATIONS ARE TO BE INSTALLED AT 1000' INTERVALS OR AS OTHERWISE DIRECTED BY THE PLANS OR THE GAS REPRESENTATIVE.

NO.	DATE	REVISION

THE CITY OF TOMBALL TEXAS FOUNDED 1907

CITY OF TOMBALL

GENERAL CONSTRUCTION NOTES

APPROVED BY CITY OF TOMBALL ENGINEERING DEPARTMENT

CITY ENGINEER

EFFECTIVE MARCH 8, 2021

2

SHEET GEN-01

SEQ.

ABBREVIATIONS:

BO	BOLLARD	GM	GAS METER
MHSTM	MANHOLE STORM	PP	POWER POLE
LP	LIGHT POLE	WM	WATER METER
P	PINE	FH	FIRE HYDRANT
O	OAK	FOCP	FIBER OPTIC CABLE MAKER
SG	SWEET GUM	TPED	TELEPHONE PEDSTAL
H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER
O.P.R.H.C.T.	OFFICIAL PUBLIC REOCORDS HARRIS COUNTY, TEXAS	FL	FLOWLINE
R.C.P	REINFORCED CONCRETE PIPE	N	NORTH
P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	S	SOUTH
TEL HH	TELEPHONE HAND HOLE	W	WEST
TEL MRK	TELEPHONE MARKER	PL	PROPERTY LINE
CBL MRK	CABLE MARKER	FNC.	FENCE
C.F.	CLERKS FILE	J.B.	JUNCTION BOX
T.O.I.	TOP OF INLET	C.O.	CLEAN OUT
PBX ELEC	ELECTRIC PULLBOX	R.P.	RAMP
WV	WATER VALVE	F.O.C.P.	FIBER OPTIC CABLE PEDESTAL
		CLF	CHAIN LINK FENCE

GENERAL NOTES:

1) ALL EASEMENTS AND BUILDING LINES SHOWN HEREON ARE PER RECORD PLAT OF THE SUBJECT PROPERTY AND SURVEYOR RESEARCH. SURVEY WAS PREFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT ADDITIONAL ENCUMBRANCES MAY EXIST THAT COULD BE DISCLOSED IN A CURRENT TITLE REPORT

2) BEARING, DISTANCES AND COORDINATES SHOWN HEREON ARE BASED OFF NORTH AMERICAN DATUM 1983 TEXAS STATE PLANSE COORDINATE SYSTEM, ZONE SOUTH CENTRAL (4204) 2011. COORDINATES AND DISTANCES MAY BE BROUGHT TO SURFACE VALUE BY APPLYING THE SURFACE ADJUSTMENT FACTOR OF 1.000130.

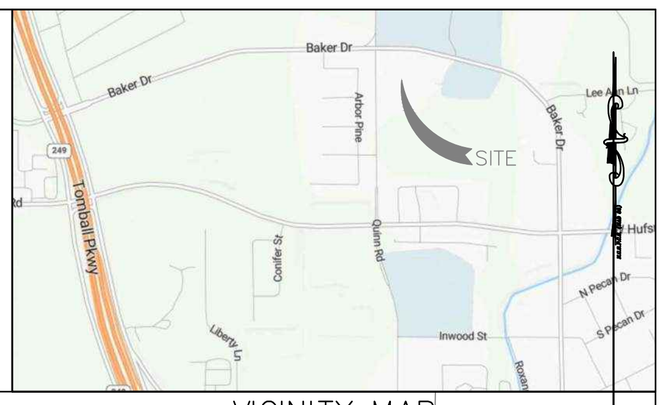
ELEVATION SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 2001 ADJ.. ESTABLISHED FROM REDUNDANT RTK GNSS OBSERVATIONS ADJUSTED TO HARRIS COUNTY FLOOD CONTROL REFRENCE MARK NO. 100360.

3) OWNERSHIP OF FENCES, IF ANY, WAS NOT DETERMINED UNDER THE SCOPE OF THIS SURVEY.

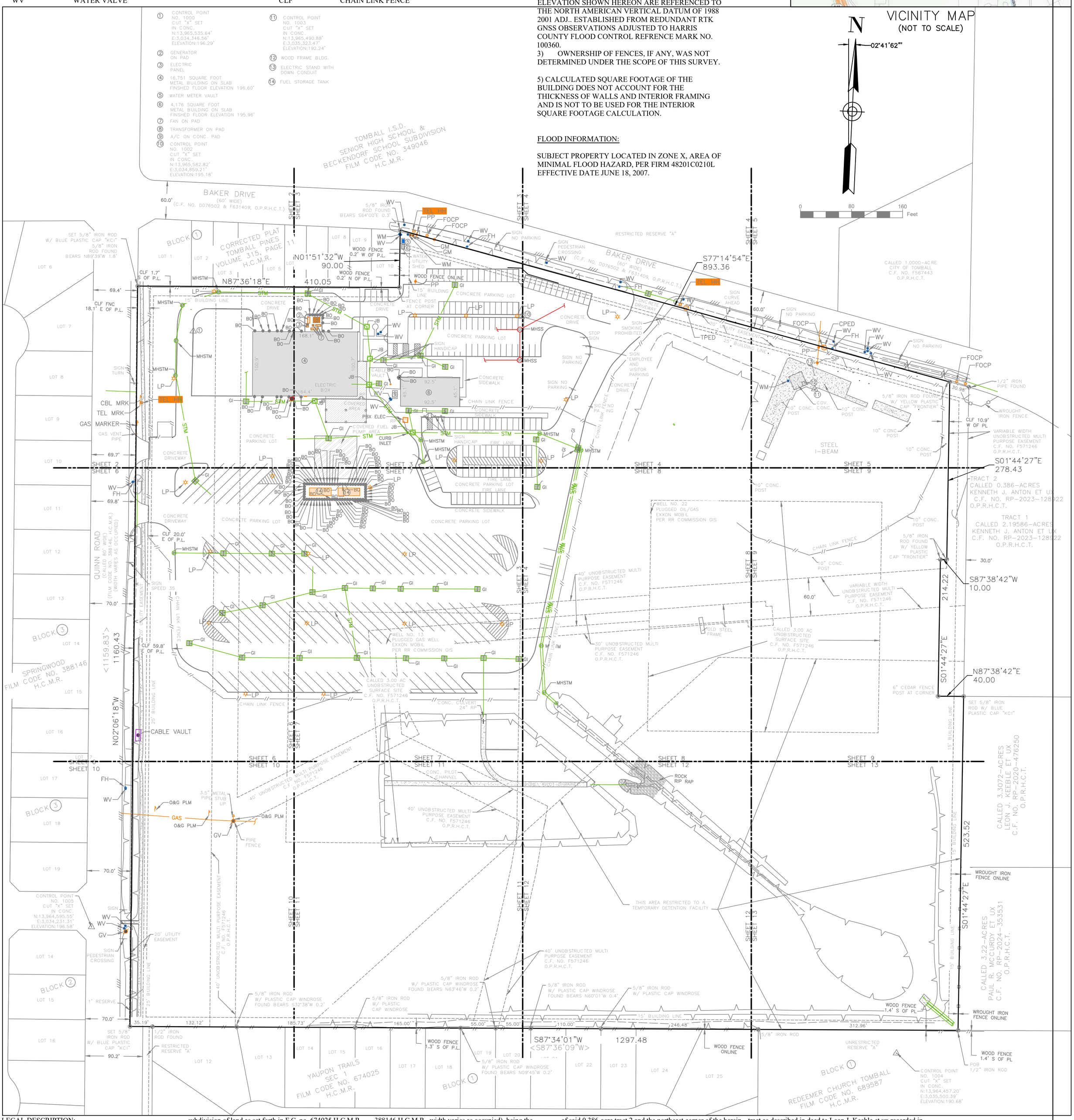
5) CALCULATED SQUARE FOOTAGE OF THE BUILDING DOES NOT ACCOUNT FOR THE THICKNESS OF WALLS AND INTERIOR FRAMING AND IS NOT TO BE USED FOR THE INTERIOR SQUARE FOOTAGE CALCULATION.

FLOOD INFORMATION:

SUBJECT PROPERTY LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD, PER FIRM 48201C0210L EFFECTIVE DATE JUNE 18, 2007.



VICINITY MAP
(NOT TO SCALE)



LEGAL DESCRIPTION:

A 33.63-acre (14,64,986 square foot) tract of land, being the remainder of a called 34.0114-acre Restricted Reserve "A" of Tomball I.S.D. Transportation Center, Section One, a subdivision of land as set forth in plat recorded in Film Code (F.C.) No. 347073 of the Harris County Map Records (H.C.M.R.), save and except a called 0.386-acre Tract 2 as described in deed to Kenneth J. Anton et ux, recorded in Clerks File (C.F.) no. RP-2023-128922 of the Official Public Records of Harris County, Texas (O.P.R.H.C.T.) Located in the Joeseph House Survey, Abstract No. 34 City of Tomball, Harris County, Texas. Said 33.63-acres, being more particularly described by metes and bounds as follows:

(Basis of Bearing Texas State Plane Coordinate System, Zone South Central (4204) Established from static GNSS observations)

Beginning at a found 1/2-inch iron rod in the north line of Restricted Reserve "A", Block 1 of Redeemer Church Tomball, a subdivision of land as set forth in F.C. no. 689587 H.C.M.R., at the southwest corner of a called 3.22-acre tract of land as described in deed to Paul R. Mccurdy et ux, recorded in C.F. no. RP-2024-353531 O.P.R.H.C.T., being the southeast corner and **Point of Beginning** of the herein described tract of land;

Thence South 87°34'01" West (called South 87°36'09" West), along the north line of said Restricted Reserve "A", passing at a distance of 312.96 feet a found 5/8-inch iron rod at the common north corner of said Restricted Reserve "A", and the northeast corner of Lot 25, Block 1 of Yaupon Trails, Section One, a subdivision of land as set forth in F.C. no. 674025 H.C.M.R., continuing along the North line of said Block 1 of said Yaupon Trails for a distance of 246.48 feet passing a found 5/8-inch iron rod with plastic cap stamped "Windrose" found at the common north corner of Lots 22 and 23 of Block 1 of Said Yaupon Trails, continuing along said north line for a distance of 110.00 feet passing the common north corner of Lots 20 and 21, from which a found 5/8-inch iron rod with plastic cap stamped "Windrose" bears North 60°01' West a distance of 0.4', continuing along said north line for a distance of 55.00 feet passing the common north corner of Lots 19 and 20 from which a found 5/8-inch iron rod with plastic cap stamped "Windrose" bears North 63°46' West a distance of 0.2 feet, continuing along said north line for a distance of 55.00 feet passing the common north corner of Lots 18 and 19 from which a found 5/8-inch iron rod with plastic cap stamped "Windrose" bears North 09°45' West a distance of 0.2 feet, continuing along said north line for a distance of 165.00 feet passing a found 5/8-inch iron rod with plastic cap stamped "Windrose" at the common north corner of Lots 15 and 16, continuing along said north line for a distance of 185.73 feet passing the common north corner of Lots 12 and 13 from which a found 5/8-inch iron rod with plastic cap stamped "Windrose" bears South 32°38' West a distance of 0.2 feet, continuing along said north line for a distance of 132.12 feet passing a found 1/2-inch iron rod at the common north corner if Restricted Reserve "A" and Lot 12 of said Block 1 of Yaupon Trails, continuing for a total distance of 1297.48 feet to a set 5/8-inch iron rod with blue plastic cap stamped "KCI" at an angle point in the East Right-Of-Way (R.O.W.) line of Quinn Road (called 80 feet wide per F.C. no. 388146 H.C.M.R., width varies as occupied), being the southwest corner of said Restricted Reserve "A" of Tomball I.S.D. Transportation Center;

Thence North 02°06'18" West, along the East R.O.W. line of said Quinn Road, for a distance of 1160.43 feet (called 1159.83 feet) to a set 5/8-inch iron rod with blue plastic cap stamped "KCI" in the east R.O.W. line of said Quinn Road, at the common west corner of said Unrestricted Reserve "A" of Tomball I.S.D. Transportation Center and Lot 1, Block 1 of the corrected plat of Tomball Pines a subdivision of land as set forth in Volume 315, Page 11 of H.C.M.R., from which a found 5/8-inch iron rod bears North 89°39' West a distance of 1.8 feet;

Thence North 87°36'18" East, along the South line of Block 1 of said Tomball Pines, for a distance of 410.05 feet, to a Fence post found at the southeast corner of Lot 10, Block 1 of said Tomball Pines, being an angle point in the north line of said Restricted Reserve "A" of Tomball I.S.D. Transportation Center and the herein described tract;

Thence North 01°51'32" West, along the east line of Lot 10, Block 1 of said Tomball Pines, for a distance of 90.00 feet to a point in the South R.O.W. line of Baker Drive (60 feet wide per C.F. no.'s D076502 and F631409 O.P.R.H.C.T.), being the northeast corner of said Lot 10 and an angle point in the North line of said Reserve "A" of Tomball I.S.D. Transportation Center an the herein described tract;

Thence South 77°14'54" East, along the south line of said Beaker Drive, a distance of 893.36 feet to a found 5/8-inch iron rod with yellow plastic cap stamped "Frontier" found in the south R.O.W. line of said Baker Drive, at the northwest corner of said 0.386-acre tract 2 and the northeast corner of the herein described tract, from which a found 1/2-inch iron pipe at the common north corner of said 0.386-acre tract 2 and Restricted Reserve "A" of Tomball I.S.D. Transportation Center, bears South 77°14'54" East a distance of 30.98 feet;

Thence South 01°44'27" East, along the west line of said 0.386-acre tract 2, for a distance of 278.43 feet to a found 5/8-inch iron rod with yellow plastic cap stamped "Frontier" for at an angle point in the west line of said 0.386-acre tract 2 being the east line of the herein described tract;

Thence South 87°38'42" West, along the east line of said 0.386-acre tract 2, a distance of 10.00 feet to a found 5/8-inch iron rod with yellow plastic cap stamped "Frontier" for at an angle point in the west line of said 0.386-acre tract 2 being the east line of the herein described tract;

Thence South 01°44'27" East, along the west line of said 0.386-acre tract 2, a distance of 214.22 feet to a found 6" cedar corner post at the southwest corner of said 0.386-acre tract 2 and an angle point in the east line of the herein described tract of land;

Thence North 87°38'42" East, along the south line of said 0.386-acre tract 2, a distance of 40.00 feet to a set 5/8-inch iron rod with blue plastic cap stamped "KCI" in the east line of said Restricted Reserve "A" Tomball I.S.D. Transportation Center, at the southeast corner of said 0.386-acre tract 2, the southwest corner of a called 2.19586-acre tract 1 as described in deed to Kenneth J. Anton et ux as recorded in C.F. no. RP-2023-128922 O.P.R.H.C.T. and the northwest corner of a called 3.3072-acre tract as described in deed to Leon J. Keeble et ux recorded in C.F. no. RP-2020-476250 O.P.R.H.C.T. being an angle point in the east line of the herein described tract;

Thence South 01°44'27" East, along the west line of said 3.3072-acre tract, for a distance of 523.52 feet to the **Point of Beginning** of the herein described 33.63-acre (14,64,986 square foot) tract of land.

This survey substantially complies with the current Texas Society of Professional Surveyors Manual of Practice requirements for a Category 1B, condition 2, Boundary Survey.

STATE OF TEXAS REGISTERED LEWIS BANKS HARRISON 6788 PROFESSIONAL LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 1
KCI JOB #: 00054239_001
DATE: 12/23/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 2 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

80 0 80 160
SCALE - PLAN: SCALE

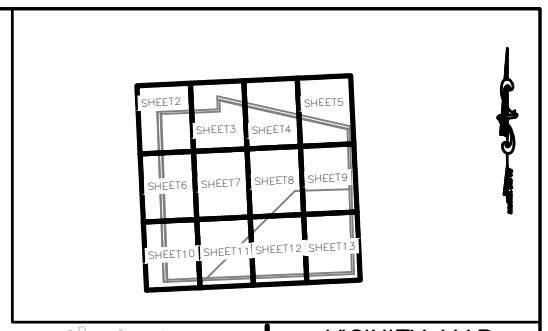
KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

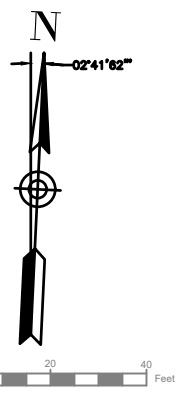
DATE	REVISION
2/11/26	ADD ADDITIONAL TOPOGRAPHIC DATA
2/22/26	ADD HARDWOOD TREES WITHIN TRP

ABBREVIATIONS:

BO	BOLLARD	GM	GAS METER	TRP	TREE REMOVAL PLAN
MHSTM	MANHOLE STORM	PP	POWER POLE		
LP	LIGHT POLE	WM	WATER METER		
P	PINE	FH	FIRE HYDRANT		
O	OAK	FOCP	FIBER OPTIC CABLE MAKER		
SG	SWEET GUM	TPED	TELEPHONE PEDSTAL		
H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER		
O.P.R.H.C.T.	OFFICIAL PUBLIC REOCORDS HARRIS COUNTY, TEXAS	FL	FLOWLINE		
R.C.P	REINFORCED CONCRETE PIPE	N	NORTH		
P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST		
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	S	SOUTH		
TEL HH	TELEPHONE HAND HOLE	W	WEST		
TEL MRK	TELEPHONE MARKER	PL	PROPERTY LINE		
CBL MRK	CABLE MARKER	FNC.	FENCE		
C.F.	CLERKS FILE	TAL	TALLOW TREE		
T.O.I.	TOP OF INLET	HCB	HACKBERRY		
PBX ELEC	ELECTRIC PULLBOX	MB	MULBERRY		
WV	WATER VALVE	E	ELM		
		PC	PECAN		



VICINITY MAP
(NOT TO SCALE)



GENERAL NOTES:

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5) CALCULATED SQUARE FOOTAGE OF THE BUILDING DOES NOT ACCOUNT FOR THE THICKNESS OF WALLS AND INTERIOR FRAMING AND IS NOT TO BE USED FOR THE INTERIOR SQUARE FOOTAGE CALCULATION.

6) UNDERGROUND UTILITY INFORMATION DENOTED WITH ** IS DERIVED FROM CITY OF TOMBALL UTILITY MAPPING AS DOES NOT REPRESENT ANY LEVEL SUE DESIGNATION.

FLOOD INFORMATION:

SUBJECT PROPERTY LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD, PER FIRM 48201C0210L EFFECTIVE DATE JUNE 18, 2007.

This survey substantially complies with the current Texas Society of Professional Surveyors Manual of Practice requirements for a Category 6, Condition 1, Topographic Survey.

STATE OF TEXAS REGISTERED LEWIS BANKS HARRISON 6788 PROFESSIONAL LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 2
KCI JOB #: 060054239 001
DATE: 12/23/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

DATE	REVISION
2/11/26	ADD ADDITIONAL TOPOGRAPHIC DATA
2/22/26	ADD HARDWOOD TREES WITHIN TRP

ABBREVIATIONS:

BO	BOLLARD	GM	GAS METER	TRP	TREE REMOVAL PLAN
MHSTM	MANHOLE STORM	PP	POWER POLE		
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H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER		
O.P.R.H.C.T.	OFFICIAL PUBLIC REOCORDS HARRIS COUNTY, TEXAS	FL	FLOWLINE		
R.C.P	REINFORCED CONCRETE PIPE	N	NORTH		
P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST		
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	S	SOUTH		
TEL HH	TELEPHONE HAND HOLE	W	WEST		
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T.O.I.	TOP OF INLET	HCB	HACKBERRY		
PBX ELEC	ELECTRIC PULLBOX	MB	MULBERRY		
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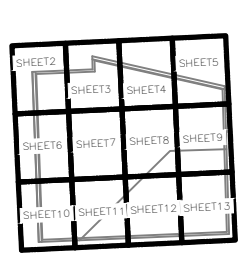
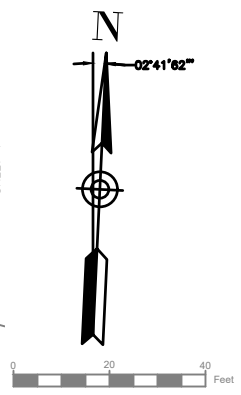
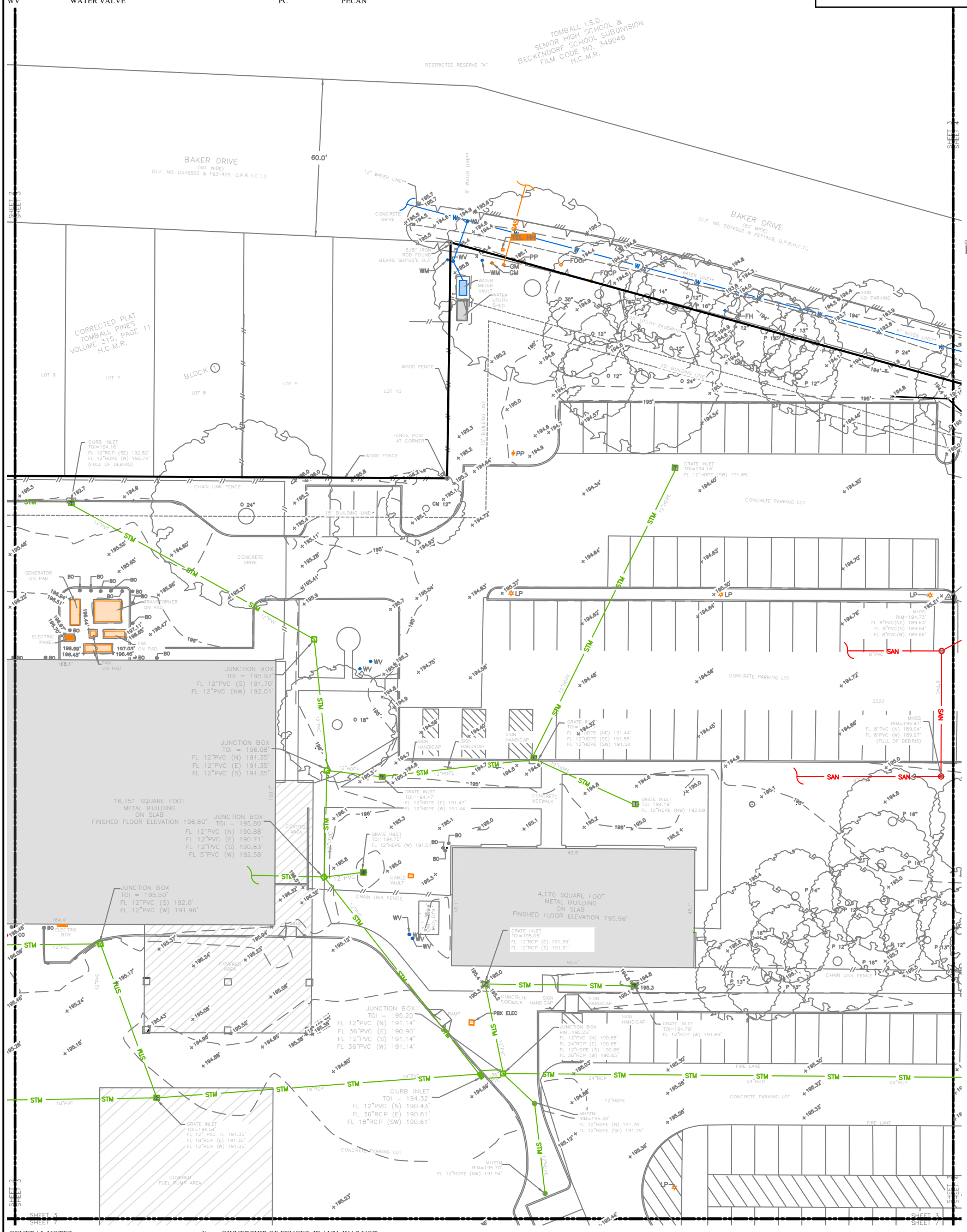


VICINITY MAP
(NOT TO SCALE)





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STATE OF TEXAS
REGISTERED
LEWIS BANKS HARRISON
6788
PROFESSIONAL
LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 3
KCI JOB #: 060054339.001
DATE: 12/23/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

DATE	REVISION
2/11/26	ADD ADDITIONAL TOPOGRAPHIC DATA
2/22/26	ADD HARDWOOD TREES WITHIN TRP

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H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER		
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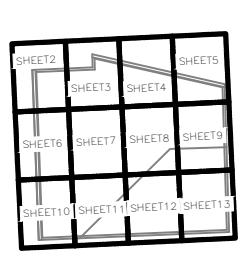

VICINITY MAP
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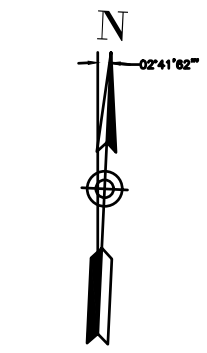

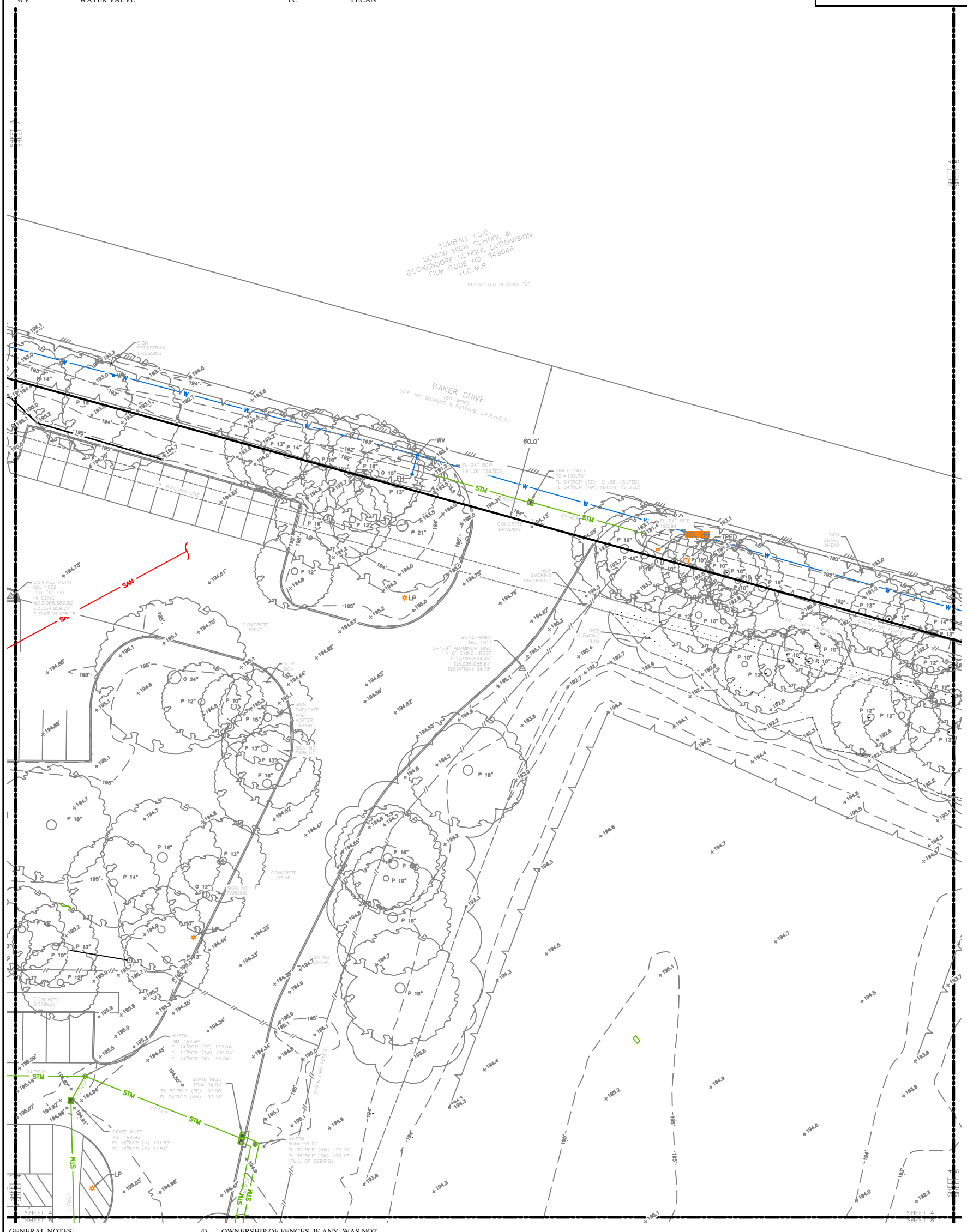

TOMBALL I.S.D.
SENIOR HIGH SCHOOL &
BECKENDORF SCHOOL SUBDIVISION
FILM CODE NO. 349046
H.C.M.R.
RESTRICTED RESERVE "A"

GENERAL NOTES:

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STATE OF TEXAS
REGISTERED
LEWIS BANKS HARRISON
6788
PROFESSIONAL LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 4
KCI JOB #: 090054319 001
DATE: 12/22/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

DATE	REVISION
2/11/26	ADD ADDITIONAL TOPOGRAPHIC DATA
2/22/26	ADD HARDWOOD TREES WITHIN TRP

ABBREVIATIONS:

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H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER		
O.P.R.H.C.T.	OFFICIAL PUBLIC REOCORDS HARRIS COUNTY, TEXAS	FL	FLOWLINE		
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P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST		
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	S	SOUTH		
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CBL MRK	CABLE MARKER	FNC.	FENCE		
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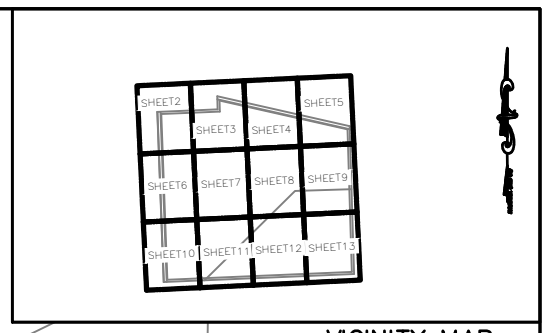
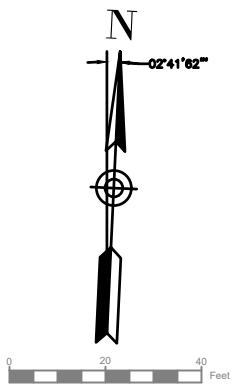
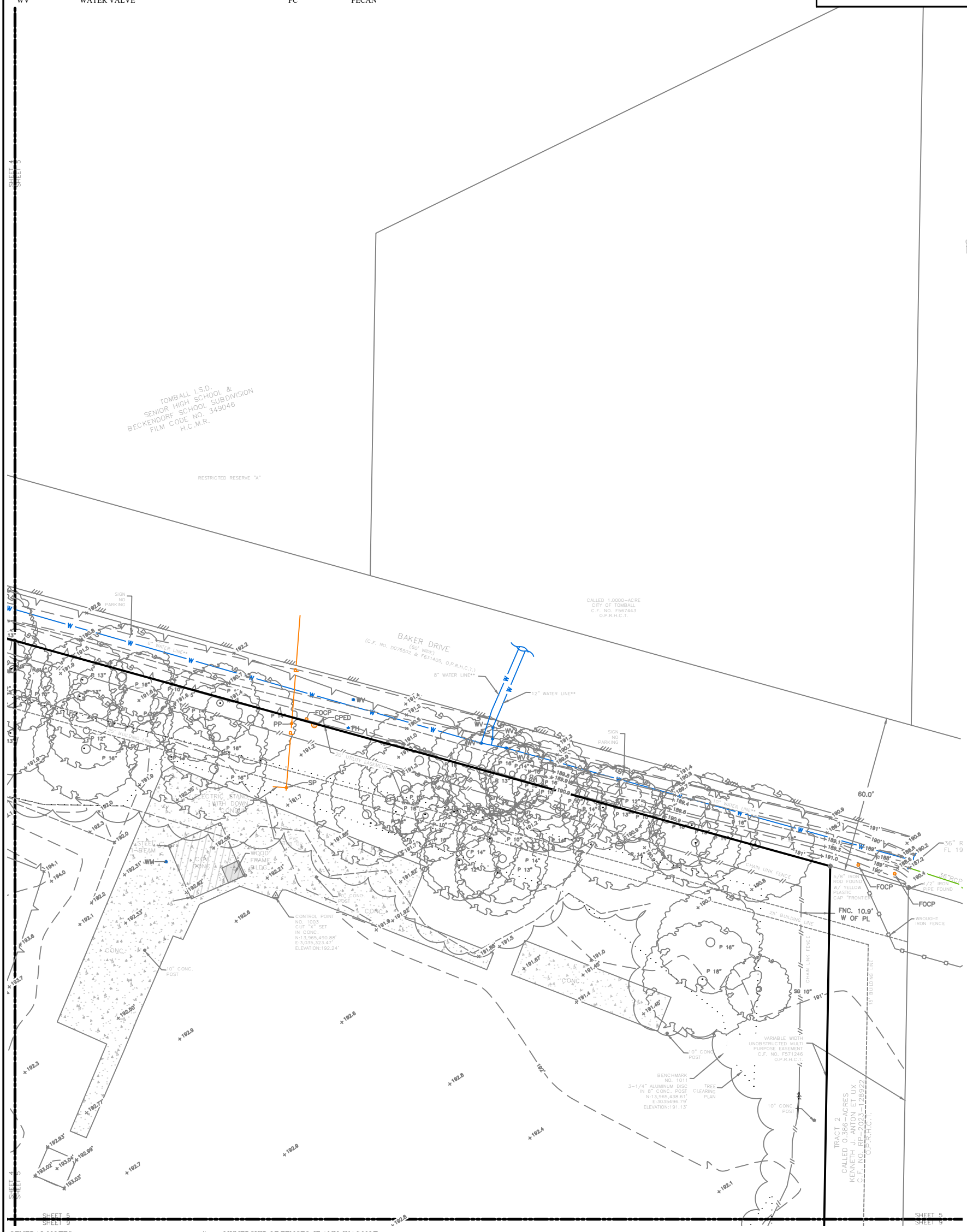


VICINITY MAP
(NOT TO SCALE)





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STATE OF TEXAS
REGISTERED
LEWIS BANKS HARRISON
6788
PROFESSIONAL
LAND SURVEYOR

Lewis Harrison

4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 5
KCI JOB #: 000543239 001
DATE: 12/22/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

DATE	REVISION
2/11/26	ADD ADDITIONAL TOPOGRAPHIC DATA
2/22/26	ADD HARDWOOD TREES WITHIN TRP

ABBREVIATIONS:

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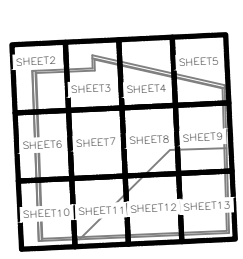

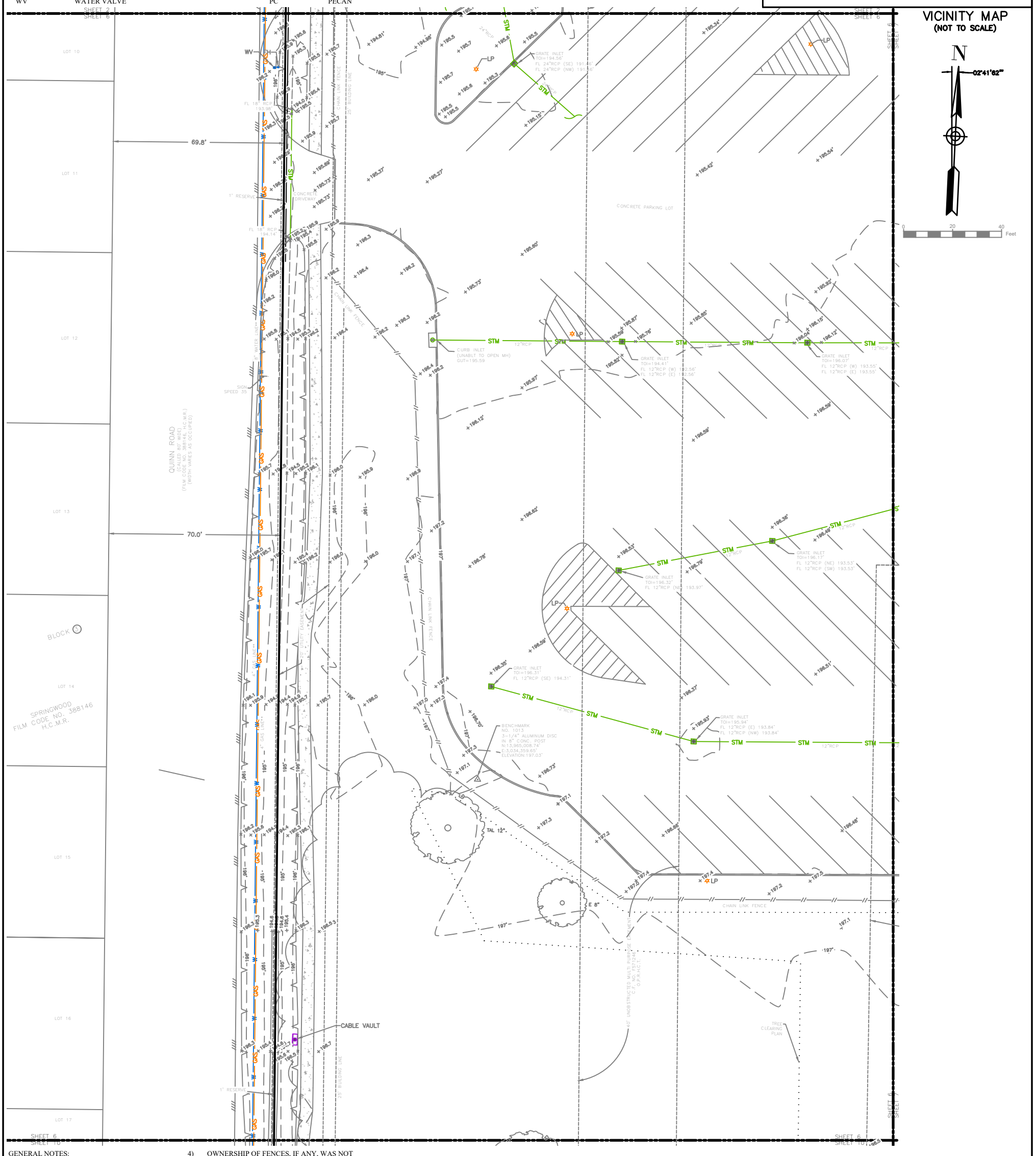

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LAND SURVEYOR

Lewis Harrison

4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 6
KCI JOB #: 00054329.001
DATE: 12/23/2025
SCALE: 1"=30'
Design: ZH
Drafting: ZH
Check: LH
Check:

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

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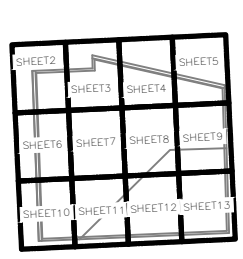

VICINITY MAP
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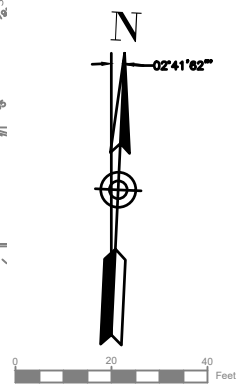

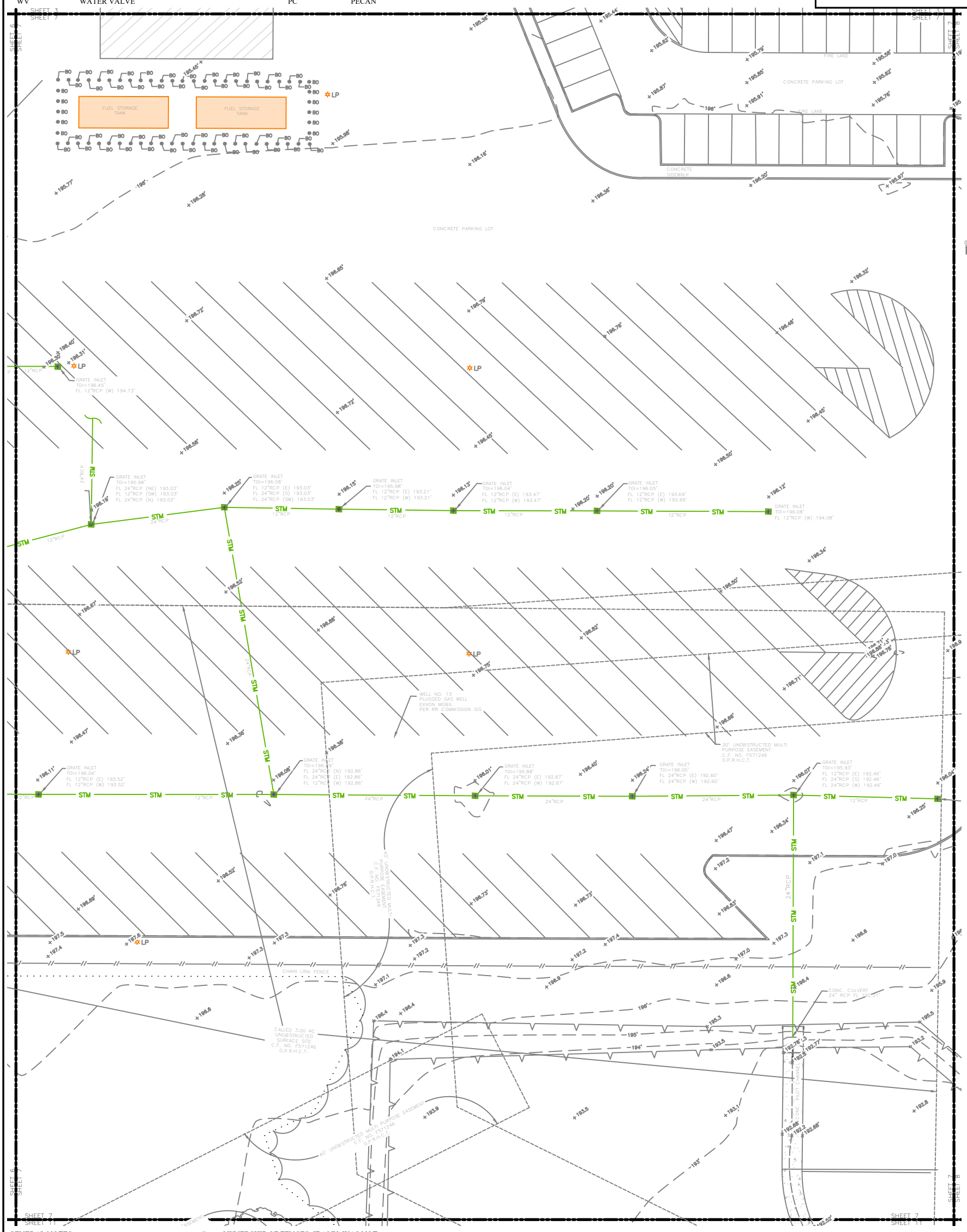

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STATE OF TEXAS REGISTERED LEWIS BANKS HARRISON 6788 PROFESSIONAL LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 7
KCI JOB #: 69054339 (00)
DATE: 12/23/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

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20 0 20 40
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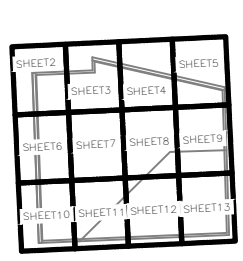

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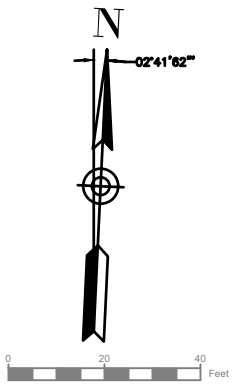

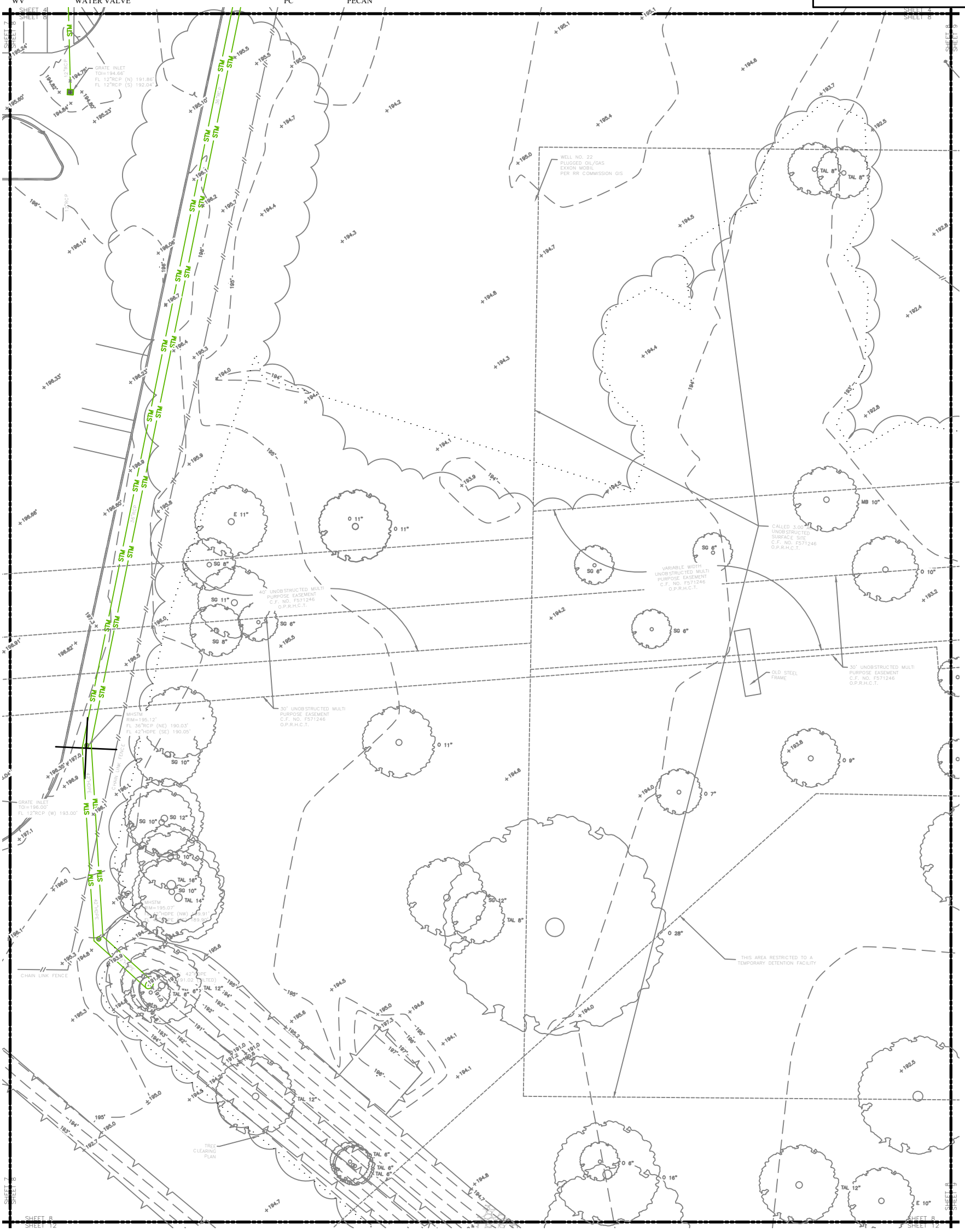

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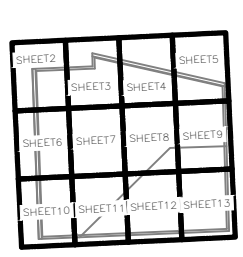

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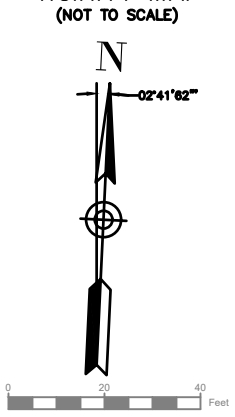

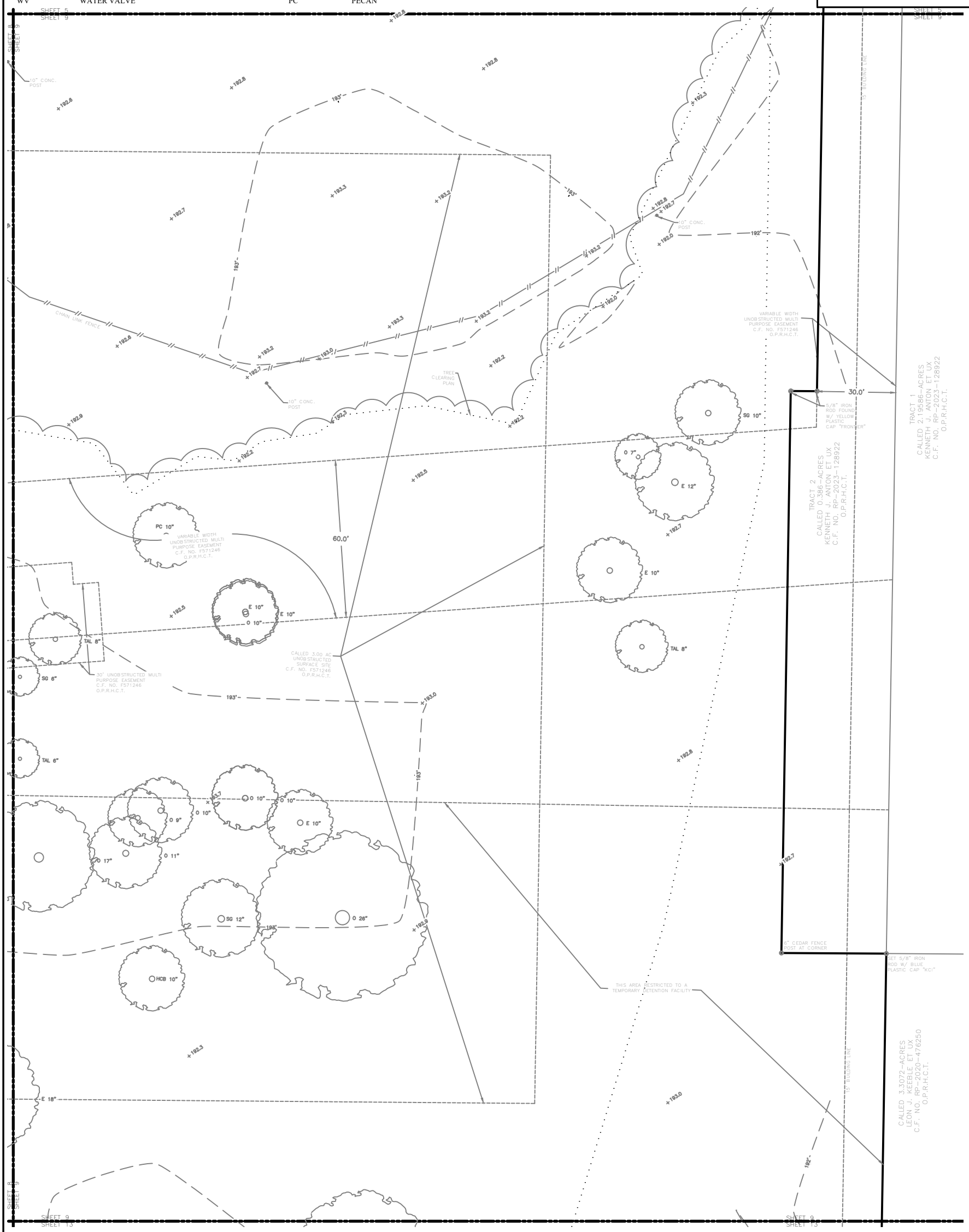

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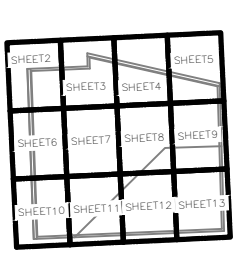
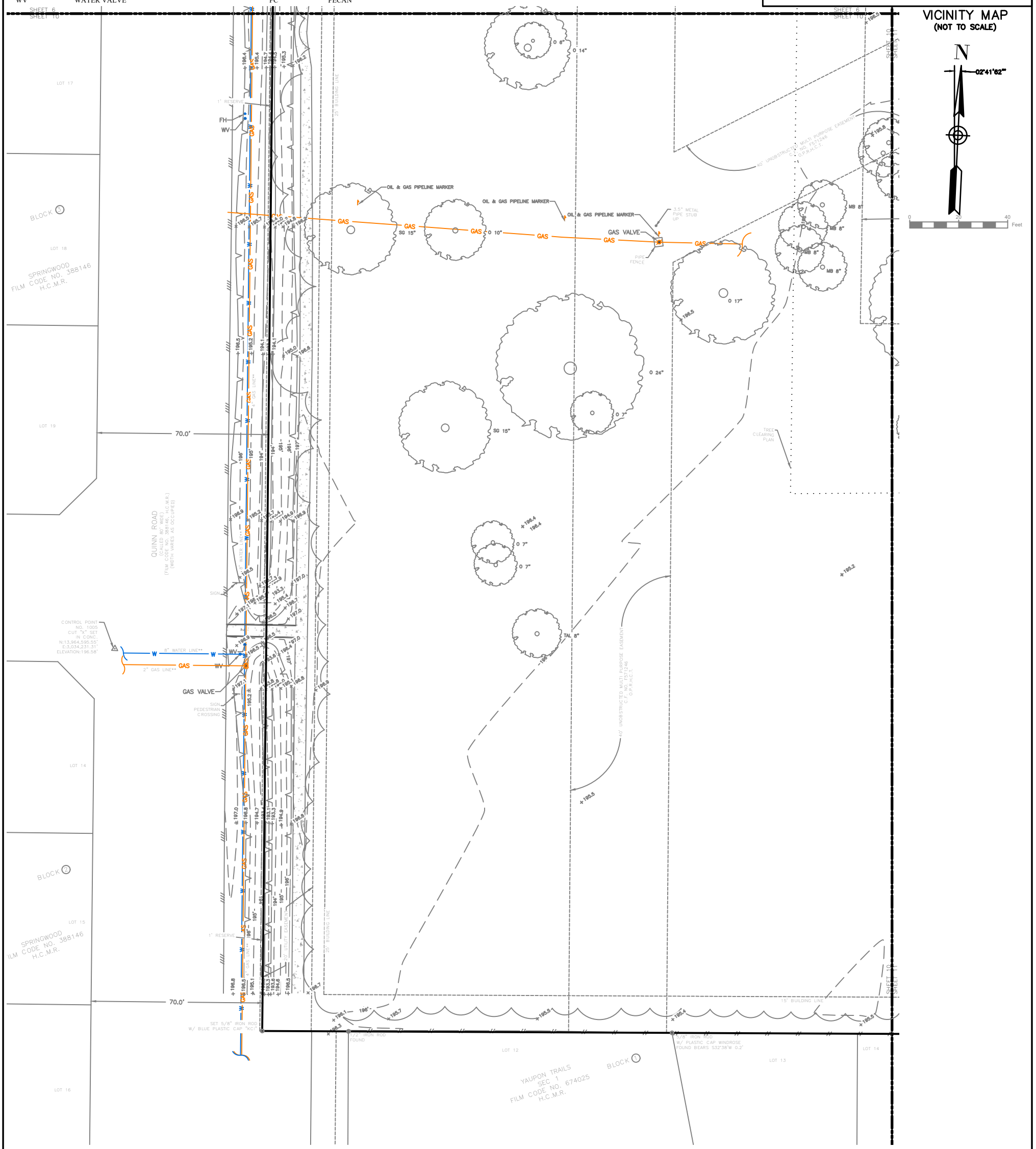
BO	BOLLARD	GM	GAS METER	TRP	TREE REMOVAL PLAN
MHSTM	MANHOLE STORM	PP	POWER POLE		
LP	LIGHT POLE	WM	WATER METER		
P	PINE	FH	FIRE HYDRANT		
O	OAK	FOCP	FIBER OPTIC CABLE MAKER		
SG	SWEET GUM	TPED	TELEPHONE PEDSTAL		
H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER		
O.P.R.H.C.T.	OFFICIAL PUBLIC REOCORDS HARRIS COUNTY, TEXAS	FL	FLOWLINE		
R.C.P	REINFORCED CONCRETE PIPE	N	NORTH		
P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST		
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	S	SOUTH		
TEL HH	TELEPHONE HAND HOLE	W	WEST		
TEL MRK	TELEPHONE MARKER	PL	PROPERTY LINE		
CBL MRK	CABLE MARKER	FNC.	FENCE		
C.F.	CLERKS FILE	TAL	TALLOW TREE		
T.O.I.	TOP OF INLET	HCB	HACKBERRY		
PBX ELEC	ELECTRIC PULLBOX	MB	MULBERRY		
WV	WATER VALVE	E	ELM		
		PC	PECAN		



VICINITY MAP
(NOT TO SCALE)



GENERAL NOTES:

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FLOOD INFORMATION:

SUBJECT PROPERTY LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD, PER FIRM 48201C0210L EFFECTIVE DATE JUNE 18, 2007.

This survey substantially complies with the current Texas Society of Professional Surveyors Manual of Practice requirements for a Category 6, Condition 1, Topographic Survey.

STATE OF TEXAS
REGISTERED
LEWIS BANKS HARRISON
6788
PROFESSIONAL
LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 10
KCI JOB #: 090054319 001
DATE: 12/23/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

DATE	REVISION
2/11/26	ADD ADDITIONAL TOPOGRAPHIC DATA
2/22/26	ADD HARDWOOD TREES WITHIN TRP

ABBREVIATIONS:

BO	BOLLARD	GM	GAS METER	TRP	TREE REMOVAL PLAN
MHSTM	MANHOLE STORM	PP	POWER POLE		
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H.C.M.R.	HARRIS COUNTY MAP RECORDS	GUT	GUTTER		
O.P.R.H.C.T.	OFFICIAL PUBLIC REOCORDS HARRIS COUNTY, TEXAS	FL	FLOWLINE		
R.C.P	REINFORCED CONCRETE PIPE	N	NORTH		
P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST		
H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	S	SOUTH		
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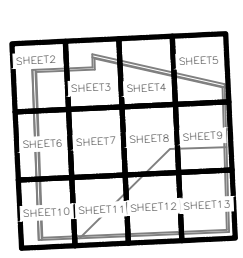
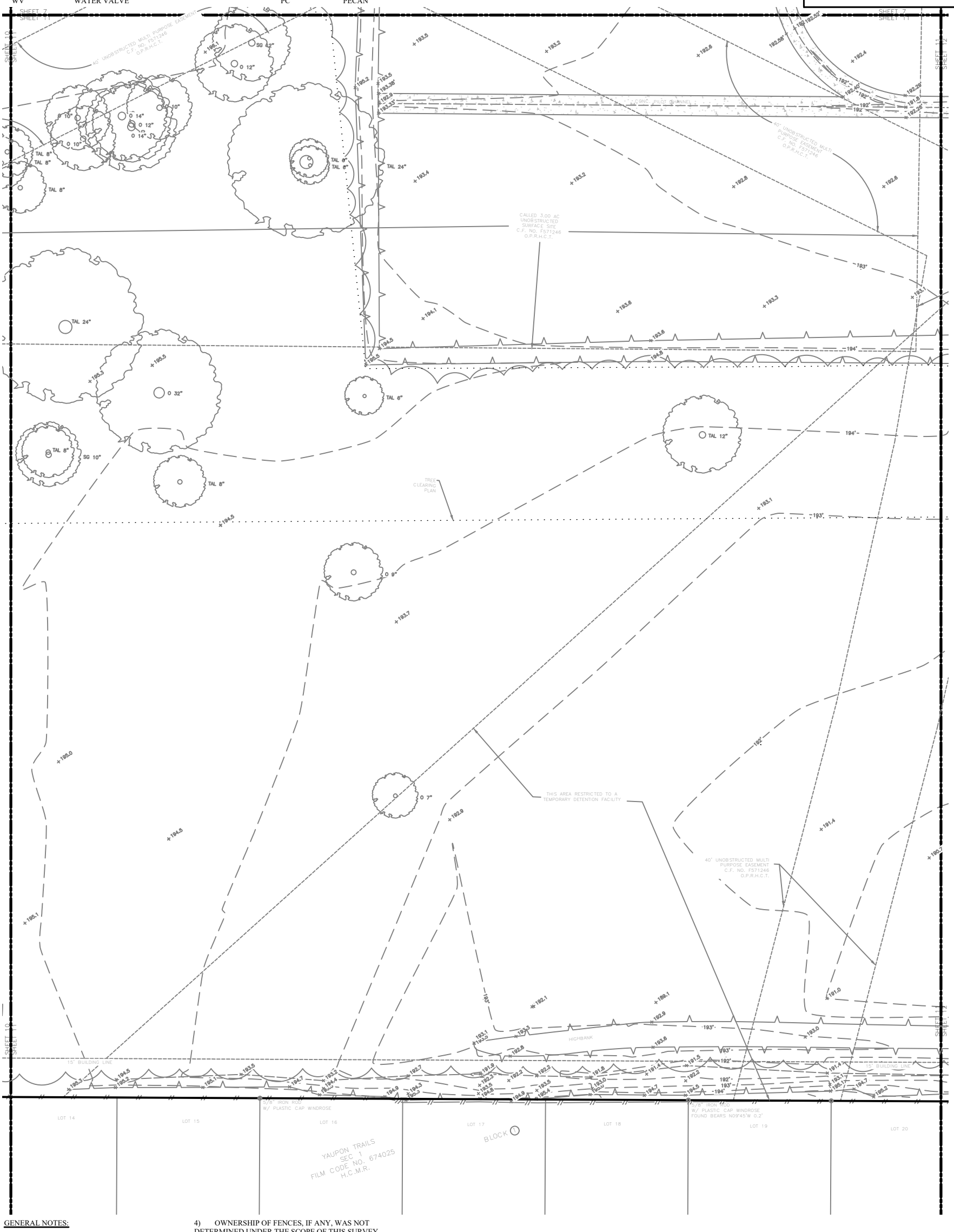
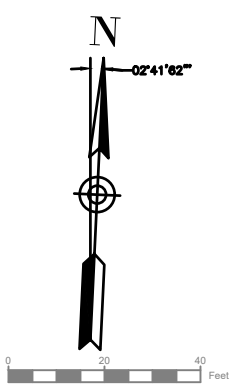
C.F.	CLERKS FILE	TAL	TALLOW TREE		
T.O.I.	TOP OF INLET	HCB	HACKBERRY		
PBX ELEC	ELECTRIC PULLBOX	MB	MULBERRY		
WV	WATER VALVE	E	ELM		
		PC	PECAN		





VICINITY MAP
(NOT TO SCALE)



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FLOOD INFORMATION:

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STATE OF TEXAS REGISTERED LEWIS BANKS HARRISON 6788 PROFESSIONAL LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 11
KCI JOB #: 000543219 001
DATE: 12/22/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

KCI TECHNOLOGIES, INC.
ENGINEERS - PLANNERS - SURVEYORS
3 RIVERWAY DRIVE - SUITE 1500 - HOUSTON, TEXAS 77056
PHONE: (832) 975-1565 MOBILE: (346) 545-3565 EMAIL: houston@kci.com

OWNER/DEVELOPER:

DATE	REVISION
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P.V.C.	POLYCINYL CHLORIDE PIPE	E	EAST		
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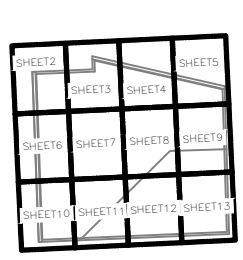

VICINITY MAP
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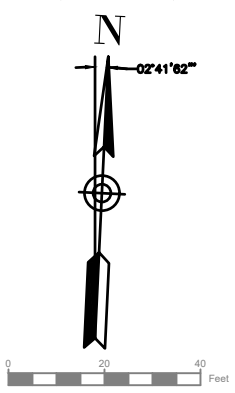

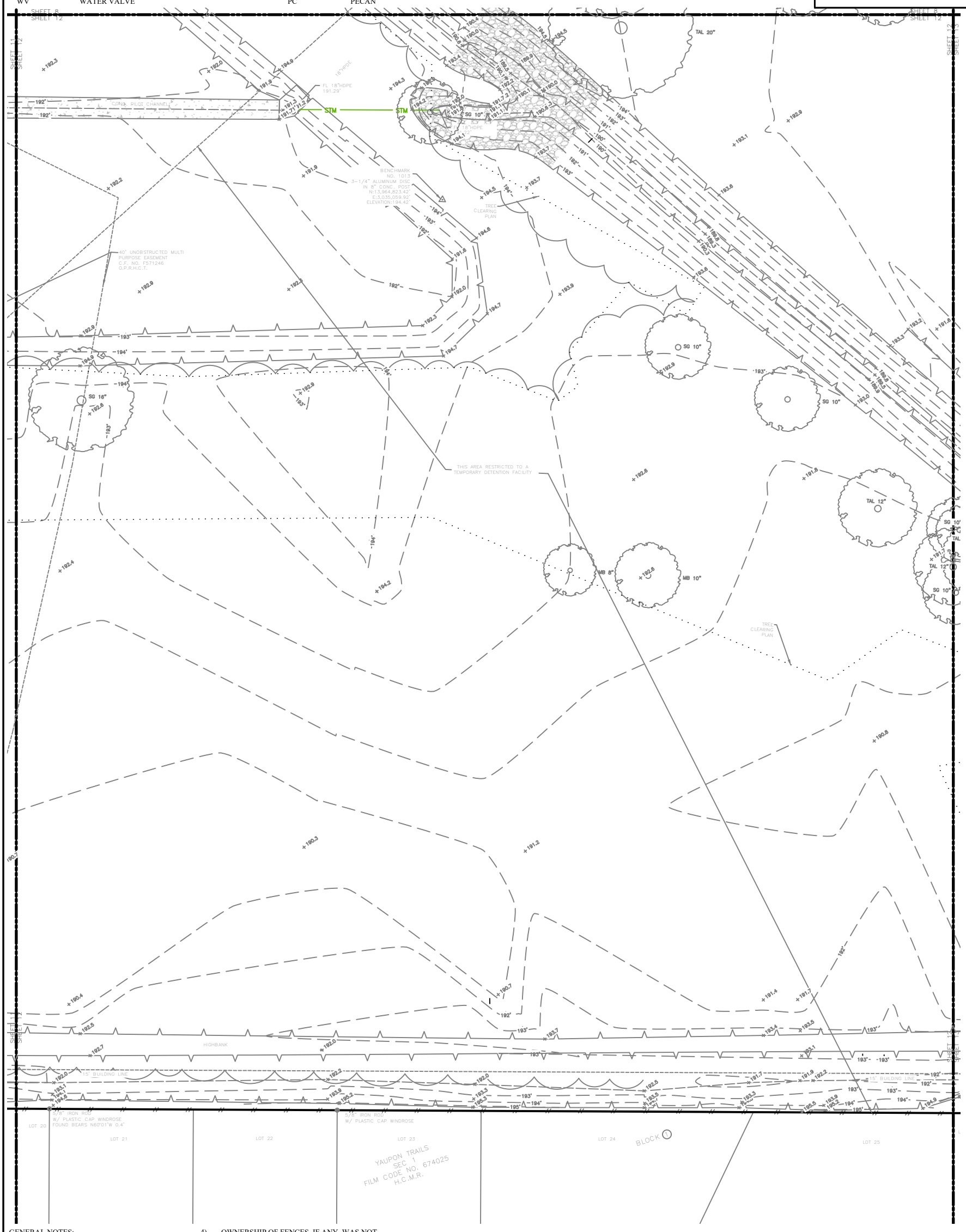

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REGISTERED
LEWIS BANKS HARRISON
6788
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LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 12
KCI JOB #: 00054239 001
DATE: 12/22/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

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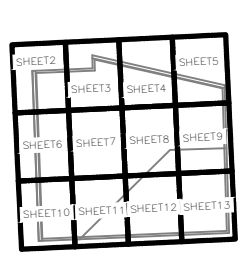

VICINITY MAP
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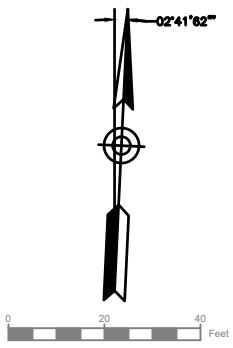

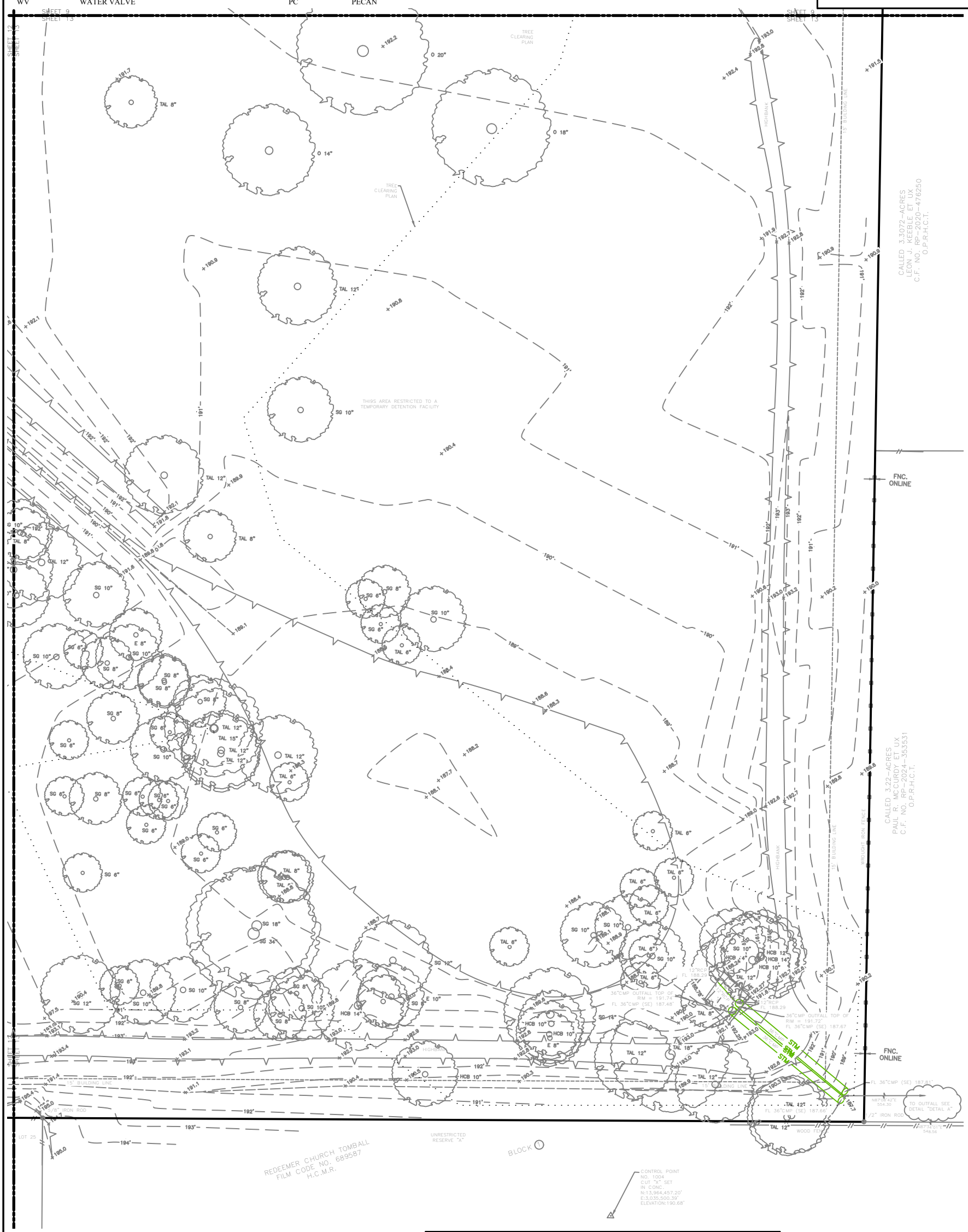

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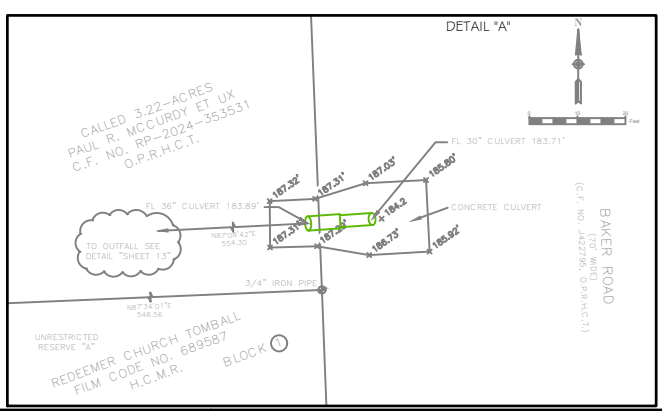

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STATE OF TEXAS
REGISTERED
LEWIS BANKS HARRISON
6788
PROFESSIONAL
LAND SURVEYOR

Lewis Harrison 4/22/2026

RPLS NAME
TEXAS REGISTRATION NUMBER

SHEET: 13
KCI JOB #: 090054319 001
DATE: 12/23/2025
SCALE: 1"=30'
Design:
Drafting: ZH
Check:
Check: LH

CATEGORY 6, CONDITION 1 TOPOGRAPHIC SURVEY

TOBALL I.S.D. TRANSPORTATION DEPOT

1055 BAKER DRIVE, TOMBALL, TX 77375

20 0 20 40
SCALE - PLAN: SCALE

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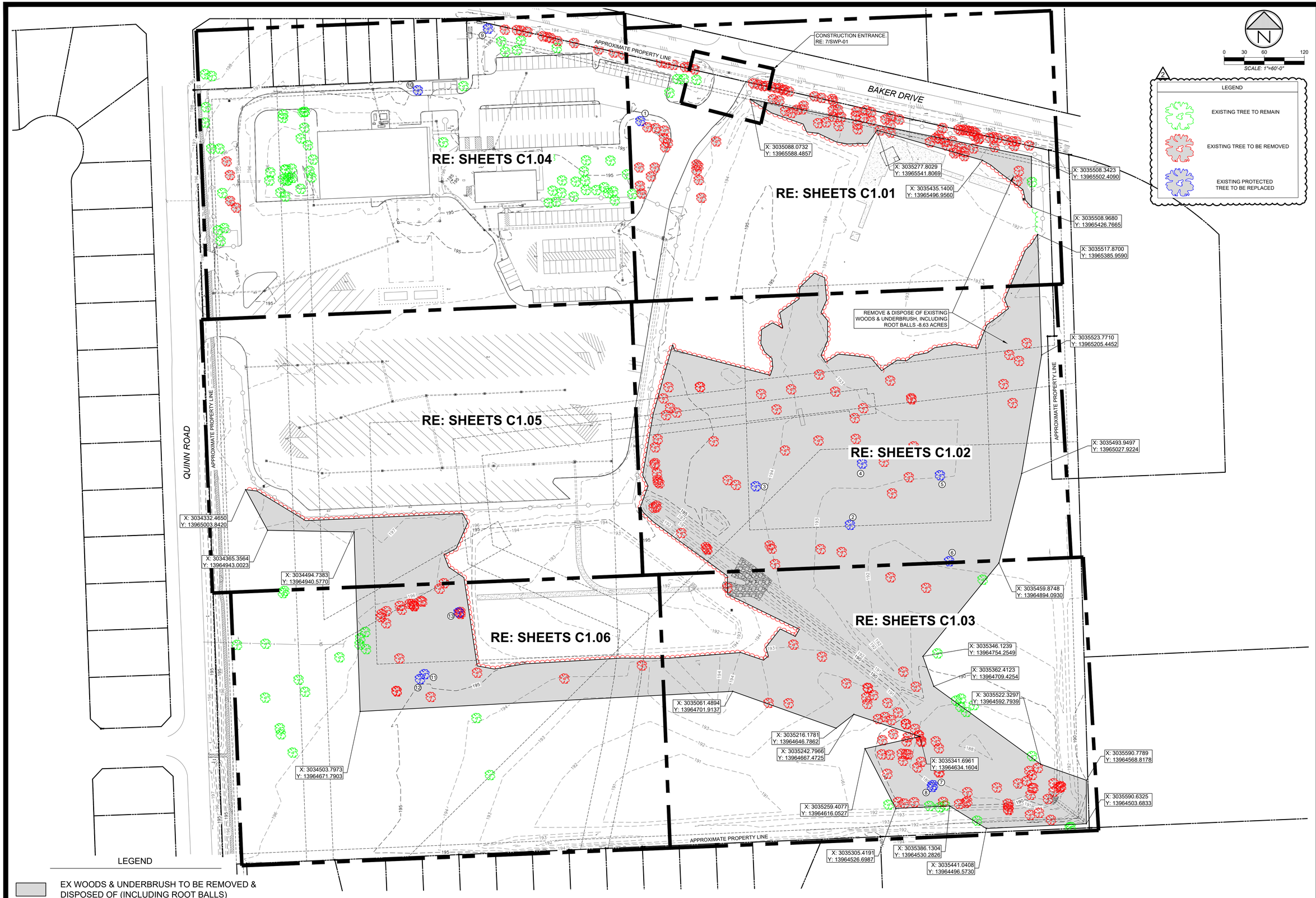

Overall Demolition and Tree Clearing Plan — 1"=60'-0" — 1

REVISIONS					
DATE	5/19/26	----	----	----	----
	Addendum 2	----	----	----	----
	1	2	3	4	D:\364\364003\364003_Overall Tree Clearing Plan.dwg 5/14/2026 3:44 PM

DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110800

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GLS
ARCHITECTURE - ENGINEERING - INTERIORS
LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 202 - LUFKIN, TEXAS 75901 - (936) 637-4900
4477 CROSS PARK RD. STE. 102 - BRYAN, TEXAS 77802 - (979) 571-2727
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

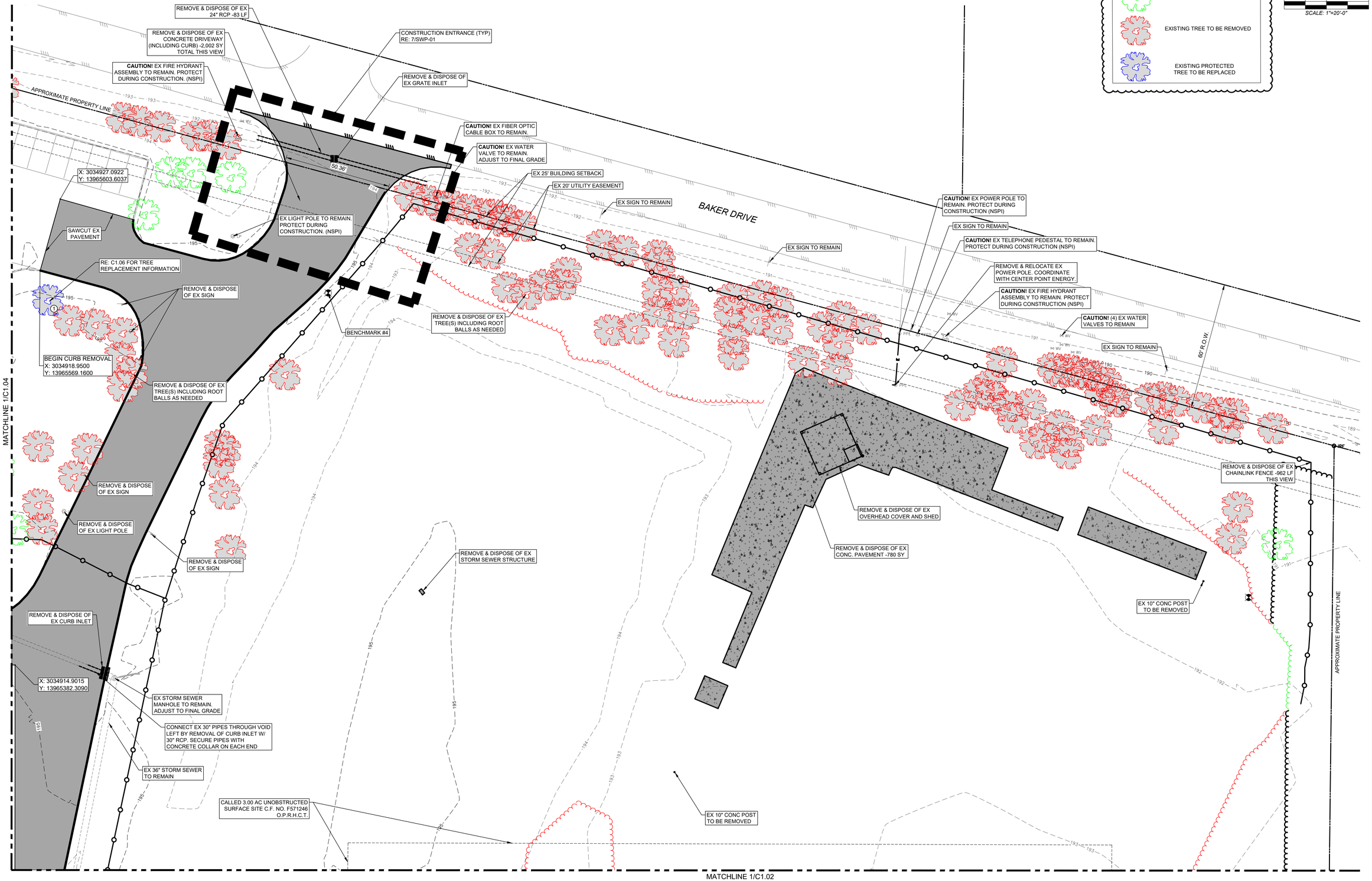
STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Overall Demolition & Tree Clearing Plan

JOB NUMBER 364003

SHEET NO.
C1.00



REVISIONS	DATE	
Addendum 2	5/19/26	1
----	----	2
----	----	3
----	----	4

D:\364003\Models\364003_C1.00 - Existing Conditions & Demo.dwg 9/27/2023 7:46 AM

DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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GLS
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LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 202 LUFKIN, TEXAS 75901 (936) 637-4900
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619 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
Michael Holmes
5/18//26

Transportation Facility Improvements

Tomball ISD
Tomball, Texas

Demolition Plan

JOB NUMBER 364003

SHEET NO.

C1.01

Existing Conditions and Demolition Plan

1"=20'-0" | 1

MATCHLINE 1/C1.01

MATCHLINE 1/C1.05

MATCHLINE 1/C1.03

0 10 20 40

SCALE: 1"=20'-0"

CAUTION! EX PLUGGED EXXON GAS WELL. FIELD VERIFY DEPTH & LOCATION PRIOR TO CONSTRUCTION

REMOVE & DISPOSE OF EX CONCRETE DRIVEWAY (INCLUDING CURB) -232 SY TOTAL THIS VIEW

X: 3034920.4297
Y: 13965246.2602

REMOVE & DISPOSE OF EX CHAINLINK FENCE -273 LF THIS VIEW

EX PAINT STRIPES TO BE REMOVED

X: 3034921.2197
Y: 13965182.8991

TREE CLEARING LIMITS (TYP.)

CALLED 3.00 AC UNOBSTRUCTED SURFACE SITE C.F. NO. F571246 O.P.R.H.C.T.

VARIABLE WIDTH UNOBSTRUCTED MULTI PURPOSE EASEMENT C.F. NO. F571246 O.P.R.H.C.T.

IRF IRF

APPROXIMATE PROPERTY LINE

REMOVE & DISPOSE OF EX STEEL FRAME

30' WIDE UNOBSTRUCTED MULTI PURPOSE EASEMENT C.F. NO. F571246 O.P.R.H.C.T.

40' WIDE UNOBSTRUCTED MULTI PURPOSE EASEMENT C.F. NO. F571246 O.P.R.H.C.T.

TREE CLEARING LIMITS (TYP.)

TEMPORARY DETENTION FACILITY LIMITS

REMOVE & DISPOSE OF EX 36" STORM SEWER CULVERT- 30 LF THIS VIEW

REMOVE & DISPOSE OF EX 36" STORM SEWER CULVERT- 26 LF

REMOVE & DISPOSE OF EX STORM SEWER JUNCTION BOX

RE: C1.06 FOR TREE REPLACEMENT INFORMATION

REMOVE & DISPOSE OF EX RIP-RAP -47 SY TOTAL THIS VIEW

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING PROTECTED TREE TO BE REPLACED

MATCHLINE 1/C1.03

Existing Conditions and Demolition Plan

1"=20'-0" | 1

REVISIONS	DATE
1 Addendum 2	5/19/26
2 ----	----
3 ----	----
4 ----	----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110800

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LANDSCAPE - SURVEYING
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1777 GILLESPIE ST. STE. 107 TYLER, TEXAS 75701 (903) 581-3805
455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 581-3805
619 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Demolition Plan

JOB NUMBER 364003

SHEET NO.

C1.02

MATCHLINE 1/C1.02

MATCHLINE 1/C1.06

N

0 10 20 40

SCALE: 1"=20'-0"

REMOVE & DISPOSE OF EX 18" RCP -56 LF

REMOVE & DISPOSE OF EX RIP-RAP -231 SY THIS VIEW

BENCHMARK #3

REMOVE & DISPOSE OF EX CONCRETE PAVMENT -48 SY TOTAL THIS VIEW

EX 15' WIDE BUILDING SETBACK

APPROXIMATE PROPERTY LINE

TREE CLEARING LIMITS (TYP)

TREE CLEARING LIMITS (TYP)

RE: C1.06 FOR TREE REPLACEMENT INFORMATION

REMOVE & DISPOSE OF EX 12" CMP -11 LF

REMOVE & DISPOSE OF EX 36" CMP -53 LF

REMOVE & DISPOSE OF EX CONCRETE PAVEMENT -19 SY

EX 15' WIDE BUILDING SETBACK

REMOVE & DISPOSE OF EX 36" CMP -54 LF

APPROXIMATE PROPERTY LINE

IRF

IRF

IRF

2

LEGEND

EXISTING TREE TO REMAIN

EXISTING TREE TO BE REMOVED

EXISTING PROTECTED TREE TO BE REPLACED

Existing Conditions and Demolition Plan

1"=20'-0"

1

REVISIONS	DATE	
Addendum 2	5/19/26	1
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STATE OF TEXAS
MICHAEL G. HOLMES
148750
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PROFESSIONAL ENGINEER

5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Demolition Plan

JOB NUMBER 364003

SHEET NO.

C1.03

LEGEND

EXISTING TREE TO REMAIN

EXISTING TREE TO BE REMOVED

EXISTING PROTECTED TREE TO BE REPLACED

BAKER DRIVE

SCALE: 1"=20'-0"

EX SIGN TO REMAIN

CAUTION! EX FIRE HYDRANT ASSEMBLY TO REMAIN. PROTECT DURING CONSTRUCTION (NSPI)

REMOVE & DISPOSE OF EX TREES AND ROOT BALLS AS NEEDED

APPROXIMATE PROPERTY LINE

EX 20' UTILITY EASEMENT

EX 25' BUILDING SETBACK

REMOVE & DISPOSE OF EX CHAIN LINK FENCE -673 LF THIS VIEW

RE: C1.06 FOR TREE REPLACEMENT INFORMATION

BEGIN CURB REMOVAL
X: 3034611.9680
Y: 13965614.2000

END CURB REMOVAL
X: 3034580.4299
Y: 13965594.7678

REMOVE & DISPOSE OF EX CURB & GUTTER -50 LF

BENCHMARK #1

EX STORM SEWER CURB INLET TO REMAIN

END CURB REMOVAL
X: 3034322.5422
Y: 13965561.5330

REMOVE & DISPOSE OF EX CURB & GUTTER -40 LF

CP #2

BEGIN CURB REMOVAL
X: 3034321.4900
Y: 13965522.5492

EX STORM SEWER CURB INLET TO REMAIN

END CURB REMOVAL
X: 3034321.7989
Y: 13965514.7077

CP #3

REMOVE & DISPOSE OF EX CURB & GUTTER -47 LF

BEGIN CURB REMOVAL
X: 3034323.1259
Y: 13965467.7264

REMOVE & DISPOSE OF EX TREES AND ROOT BALLS AS NEEDED

EX STORM SEWER CURB INLET TO REMAIN

END CURB REMOVAL
X: 3034323.3657
Y: 13965457.5918

REMOVE & DISPOSE OF EX TREES AND ROOT BALLS AS NEEDED

REMOVE & DISPOSE OF EX CURB & GUTTER -65 LF

BEGIN CURB REMOVAL
X: 3034325.4844
Y: 13965392.6484

40' WIDE UNOBSTRUCTED MULTI PURPOSE EASEMENT
C.F. NO. F571246
O.P.R.H.C.T.

CP #4

REMOVE & DISPOSE OF EX CONCRETE DRIVEWAY (INCLUDING CURB) -40 SY TOTAL THIS VIEW

REMOVE & DISPOSE OF EX CHAINLINK FENCE -962 LF THIS VIEW

END CURB REMOVAL
X: 3034899.0570
Y: 13965408.7400

X: 3034898.5247
Y: 13965410.7778

SAW-CUT EX PAVEMENT

EX STORM SEWER MANHOLE TO REMAIN

EX STORM SEWER GRATE INLET TO REMAIN

X: 3034898.9865
Y: 13965381.6411

SAW-CUT EX PAVEMENT

REMOVE & DISPOSE OF EX LIGHT POLE

EX PAINT STRIPES TO BE REMOVED

MATCHLINE 1/C1.01

MATCHLINE 1/C1.05

Existing Conditions and Demolition Plan

1"=20'-0"

1

	DATE	REVISIONS
1	5/19/26	Addendum 2
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T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
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1577 E. SOUTHEAST LOOP 323 TYLER, TEXAS 75703 (903) 581-3805
455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 581-3805
619 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

MICHAEL G. HOLMES 148750 LICENSED PROFESSIONAL ENGINEER

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Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Demolition Plan

JOB NUMBER 364003

SHEET NO.

C1.04

MATCHLINE 1/C1.04

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

EX STORM SEWER CURB INLET TO REMAIN

END CURB REMOVAL
X: 3034334.3339
Y: 13965184.2190

EX 40' WIDE UNOBSTRUCTED MULTI PURPOSE EASEMENT C.F. NO. F571246 O.P.R.H.C.T.

REMOVE & DISPOSE OF EX CURB & GUTTER -146 LF

EX 25' WIDE BUILDING SETBACK

BEGIN CURB REMOVAL
X: 3034344.5037
Y: 13965039.4944

EX 20' WIDE UTILITY EASEMENT

BENCHMARK #2

CALLED 3.00 AC UNOBSTRUCTED SURFACE SITE C.F. NO. F571246 O.P.R.H.C.T.

TREE CLEARING LIMITS (TYP)

EX 40' WIDE UNOBSTRUCTED MULTI PURPOSE EASEMENT C.F. NO. F571246 O.P.R.H.C.T.

EX 40' WIDE UNOBSTRUCTED MULTI PURPOSE EASEMENT C.F. NO. F571246 O.P.R.H.C.T.

2
LEGEND
EXISTING TREE TO REMAIN
EXISTING TREE TO BE REMOVED
EXISTING PROTECTED TREE TO BE REPLACED

X: 3034825.3647
Y: 13965242.0584

X: 3034841.6110
Y: 13965210.9287

X: 3034858.5648
Y: 13965211.6816

EX PAINT STRIPES TO BE REMOVED

REMOVE & DISPOSE OF EX LIGHT POLE

X: 3034874.8111
Y: 13965180.5519

EX PAINT STRIPES TO BE REMOVED

X: 3034813.2304
Y: 13965132.7729

X: 3034894.9675
Y: 13965136.4026

R20'

X: 3034912.1776
Y: 13965127.9793

X: 3034846.4305
Y: 13965102.3961

X: 3034812.5228
Y: 13965100.8903

X: 3034907.4734
Y: 13965078.1455

REMOVE & DISPOSE OF EX LIGHT POLE

X: 3034900.7508
Y: 13965073.3968

X: 3034904.8320
Y: 13965062.1353

EX STORM SEWER GRATE INLET TO REMAIN

X: 3034845.7229
Y: 13965070.5135

X: 3034903.3580
Y: 13965056.9053

GRATE INLET
TOP=194.75
FL 12" RCP (E)=191.28
FL 24" RCP (S)=191.28
FL 24" RCP (W)=191.28

X: 3034901.3269
Y: 13965051.8654

EX STORM SEWER GRATE INLET TO REMAIN

X: 3034898.7626
Y: 13965047.0748

X: 3034892.1603
Y: 13965038.4628

REMOVE & DISPOSE OF EX CONCRETE DRIVEWAY (INCLUDING CURB) -1,057 SY TOTAL THIS VIEW

X: 3034794.5965
Y: 13965023.1988

X: 3034867.3066
Y: 13965026.4276

X: 3034791.4431
Y: 13965014.5148

X: 3034792.5224
Y: 13965013.5273

END CURB REMOVAL
X: 3034818.4210
Y: 13964989.8000

REMOVE & DISPOSE OF EX 36" STORM SEWER CULVERT- 41 LF THIS VIEW

EX 24" RCP TO REMAIN

REMOVE & DISPOSE OF EX CHAIN LINK FENCE -898 LF TOTAL THIS VIEW

REMOVE & DISPOSE OF EX 24" STORM SEWER CULVERT- 12 LF

REMOVE & DISPOSE OF EX CONCRETE PAVMENT -75 SY TOTAL THIS VIEW

MATCHLINE 1/C1.02

MATCHLINE 1/C1.06

Existing Conditions and Demolition Plan

1"=20'-0" | 1

REVISIONS	DATE	
1 Addendum 2	5/19/26	
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3 ----	----	
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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

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T.B.A.E. FIRM NO. BR 351
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1201 E. 5TH STREET - AUSTIN, TEXAS 78702 - (512) 879-0900
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
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148750
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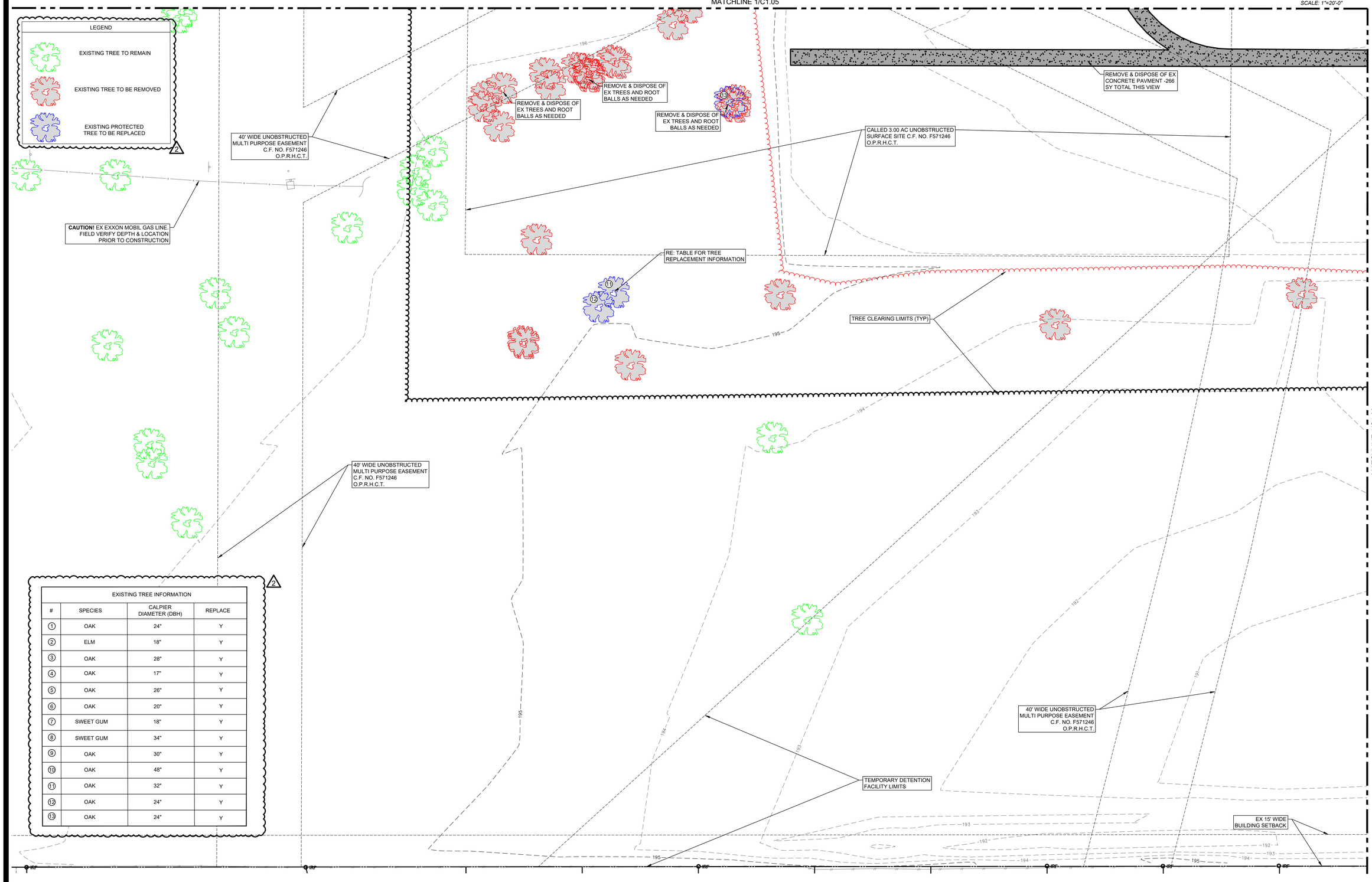
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Demolition Plan

JOB NUMBER 364003

SHEET NO.
C1.05



EXISTING TREE INFORMATION			
#	SPECIES	CALPIER DIAMETER (DBH)	REPLACE
①	OAK	24"	Y
②	ELM	18"	Y
③	OAK	28"	Y
④	OAK	17"	Y
⑤	OAK	26"	Y
⑥	OAK	20"	Y
⑦	SWEET GUM	18"	Y
⑧	SWEET GUM	34"	Y
⑨	OAK	30"	Y
⑩	OAK	48"	Y
⑪	OAK	32"	Y
⑫	OAK	24"	Y
⑬	OAK	24"	Y

REVISIONS					
DATE	5/19/26	----	----	----	----
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Addendum 2	----	----	----	----	

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4777 CRESS DR. STE. 100 - FORT WORTH, TEXAS 76109 - (817) 731-5805
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
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Michael Holmes

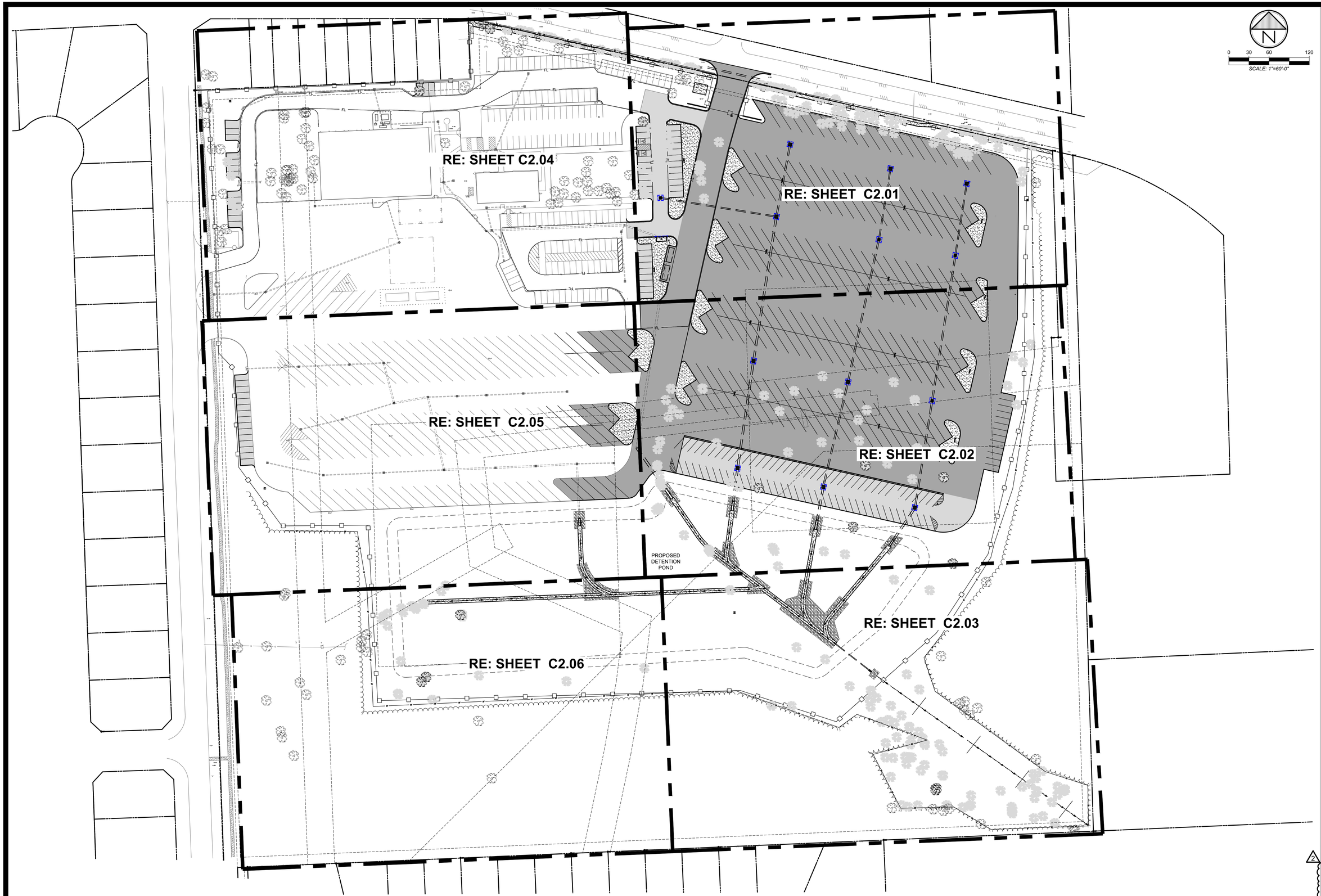
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Demolition Plan

JOB NUMBER 364003

SHEET NO.
C1.06

Existing Conditions and Demolition Plan | 1"=20'-0" | 1



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SCALE: 1"=60'-0"

REVISIONS	DATE	
1	5/19/26	Addendum 2
2	-----	-----
3	-----	-----
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DRAWN BY: TW | APP'D BY: MH | ISSUED: 04/02/2026

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2777 CROCKETT RD. STE. 200 - BRYAN, TEXAS 77802 - (979) 774-7700
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STATE OF TEXAS
MICHAEL G. HOLMES
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PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

Transportation Facility Improvements

Tomball ISD
Tomball, Texas

Overall Site & Erosion Control Plan

JOB NUMBER 364003

SHEET NO. C2.00

Overall Site and Erosion Control Plan | 1"=60'-0" | 1

RE: SHEET- C4.00 - C4.01 FOR STORM SEWER PROFILES

LEGEND
- PROP STORM LINE
- PROP CURB INLET
- PROP GRATE INLET
- INLET PROTECTION

N

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

FIRE PREVENTION NOTES:
1. PAINT A CONTINUOUS 8" WIDE RED STRIPE ON THE DRIVEWAY SURFACE W/ PAINTED WHITE 4" TALL LETTERING "FIRE LANE - NO PARKING - TOW AWAY ZONE" SPACED AT 25' INTERVALS.
2. ALL CURBS ADJACENT TO THE FIRE LANE SHALL BE PAINTED RED.
3. TEXT SHALL BE PAINTED EVERY 15' FOR THE ENTIRE LENGTH OF THE FIRE LANE.

BAKER DRIVE

CAUTION! EX WATER VALVE TO REMAIN. ADJUST TO FINAL GRADE

CAUTION! EX FIRE HYDRANT ASSEMBLY TO REMAIN. PROTECT DURING CONSTRUCTION. (NSPI)

4" CONC SIDEWALK -76 SY THIS VIEW

CONC-ASPH TIE-IN

CAUTION! EX FIBER OPTIC CABLE BOX TO REMAIN.

6" MEDIUM LOAD CONC PAVEMENT -1,670 SY TOTAL THIS VIEW

CONC-CONC TIE-IN

TEMPORARY CONC WASHOUT RE: 1/C5.03

CAUTION! EX WATER VALVE TO REMAIN. ADJUST TO FINAL GRADE

EX 25' BUILDING SETBACK

EX 20' UTILITY EASEMENT

CAUTION! EX POWER POLE TO REMAIN. PROTECT DURING CONSTRUCTION (NSPI)

CAUTION! EX TELEPHONE PEDESTAL TO REMAIN. PROTECT DURING CONSTRUCTION (NSPI)

CAUTION! EX FIRE HYDRANT ASSEMBLY TO REMAIN. PROTECT DURING CONSTRUCTION (NSPI)

CAUTION! (4) EX WATER VALVES TO REMAIN

EX LIGHT POLE TO REMAIN. PROTECT DURING CONSTRUCTION. (NSPI)

CHAIN LINK FENCE & GATE. RE: 10/C5.04 FOR DETAIL

4" CONC SLOPE PAVING -304 SY

COORDINATE WITH LOCAL FIRE MARSHAL FOR EXACT LOCATION OF KNOX BOX FOR GATE ACCESS

APPROXIMATE PROPERTY LINE

4" CONC SIDEWALK -259 SY

MATCHLINE 1/C2.04

20 SPACES

4" CONC SLOPE PAVING -118 SY

FIRE LANE STRIPING -1,437 LF TOTAL THIS VIEW. RE: FIRE PREVENTION NOTES

INLET PROTECTION (TYP.)

21 SPACES

21 SPACES

SILT FENCE -806 LF THIS VIEW

7" HEAVY LOAD CONC PAVEMENT -13,904 SY TOTAL THIS VIEW

8" STABILIZED SUBGRADE -16,112 SY TOTAL THIS VIEW

6' CHAIN LINK FENCE -907 LF THIS VIEW

CURB INLET PROTECTION

4" CONC SLOPE PAVING -118 SY

4" CONC SLOPE PAVING -118 SY

APPROXIMATE PROPERTY LINE

23 SPACES

DUMPSTER ENCLOSURE. RE: 10/C5.04 FOR DETAIL

4" CONC SLOPE PAVING -234 SY

4" CONC SLOPE PAVING -19 SY THIS VIEW

CALLED 3.00 AC UNOBSTRUCTED SURFACE SITE C.F. NO. F571246 O.P.R.H.C.T.

16 SPACES

6" MONOLITHIC CURB -2,346 SY TOTAL THIS VIEW

4" CONC SLOPE PAVING -23 SY THIS VIEW

MATCHLINE 1/C2.02

REVISIONS	DATE	
1	5/19/26	Addendum 2
2	-----	-----
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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

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1005 ESE LOOP 323 STE. 107 TYLER, TEXAS 75701 (903) 581-3805
455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 581-3805
619 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
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Michael Holmes
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Site & Erosion Control Plan

JOB NUMBER 364003

SHEET NO. C2.01

Site and Erosion Control Plan | 1"=20'-0" | 1

FIRE PREVENTION NOTES:

1. PAINT A CONTINUOUS 8" WIDE RED STRIPE ON THE DRIVEWAY SURFACE W/ PAINTED WHITE 4" TALL LETTERING "FIRE LANE - NO PARKING - TOW AWAY ZONE" SPACED AT 25' INTERVALS.
2. ALL CURBS ADJACENT TO THE FIRE LANE SHALL BE PAINTED RED.
3. TEXT SHALL BE PAINTED EVERY 15' FOR THE ENTIRE LENGTH OF THE FIRE LANE.

RE: SHEET- C4.00 - C4.01 FOR STORM SEWER PROFILES

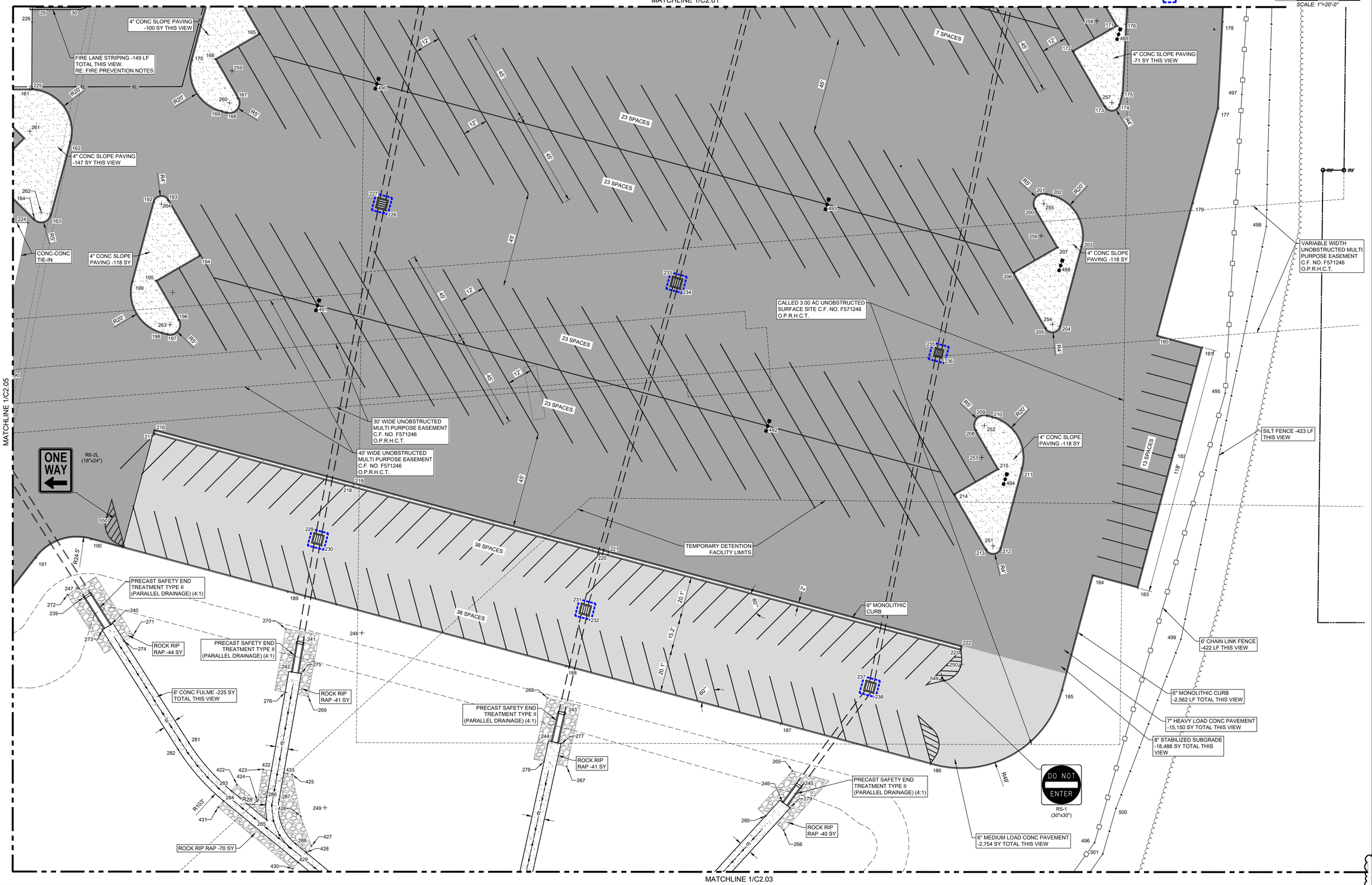
LEGEND

- PROP STORM LINE
- PROP CURB INLET
- PROP GRATE INLET
- INLET PROTECTION

N

0 10 20 40

SCALE: 1"=20'-0"



REVISIONS	DATE	
1	5/19/26	Addendum 2
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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

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T.B.A.E. FIRM NO. BR 351
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LANDSCAPE - SURVEYING
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2727 PATRIOT BLVD. STE. 250 GLENN HEIGHTS, TEXAS 75154 (972) 637-4900
455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 891-3805
619 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
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PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

Transportation Facility Improvements

Tomball ISD
Tomball, Texas

Site & Erosion Control Plan

JOB NUMBER 364003

SHEET NO. C2.02

Site and Erosion Control Plan | 1"=20'-0" | 1

FIRE PREVENTION NOTES:

1. PAINT A CONTINUOUS 8" WIDE RED STRIPE ON THE DRIVEWAY SURFACE W/ PAINTED WHITE 4" TALL LETTERING "FIRE LANE - NO PARKING - TOW AWAY ZONE" SPACED AT 25' INTERVALS.
2. ALL CURBS ADJACENT TO THE FIRE LANE SHALL BE PAINTED RED.
3. TEXT SHALL BE PAINTED EVERY 15' FOR THE ENTIRE LENGTH OF THE FIRE LANE.

RE: SHEET- C4.00 - C4.01 FOR STORM SEWER PROFILES

LEGEND

- PROP STORM LINE
- PROP CURB INLET
- PROP GRATE INLET
- INLET PROTECTION

0 10 20 40

SCALE: 1"=20'-0"

MATCHLINE 1/C2.02

MATCHLINE 1/C2.06

ROCK RIP-RAP -384 SY TOTAL THIS VIEW

6' CONC FLUME -348 SY TOTAL THIS VIEW

TEMPORARY DETENTION FACILITY LIMITS

PRECAST SAFETY END TREATMENT TYPE II (PARALLEL DRAINAGE) (4:1)

ROCK RIP RAP -15 SY

6' CHAIN LINK FENCE -584 LF THIS VIEW

EX 15' WIDE BUILDING SETBACK

SILT FENCE -1,427 LF THIS VIEW

EX 15' WIDE BUILDING SETBACK

IRF

IRF

IRF

REVISIONS	DATE	
1 Addendum 2	5/19/26	
2 ----	----	
3 ----	----	
4 ----	----	

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10115900

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LANDSCAPE - SURVEYING
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1477 CHASE BLVD. STE. 111 - BEAUMONT, TEXAS 77706 - (409) 861-7720
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 215-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Site & Erosion Control Plan

JOB NUMBER 364003

SHEET NO. C2.03

Site and Erosion Control Plan | 1"=20'-0" | 1

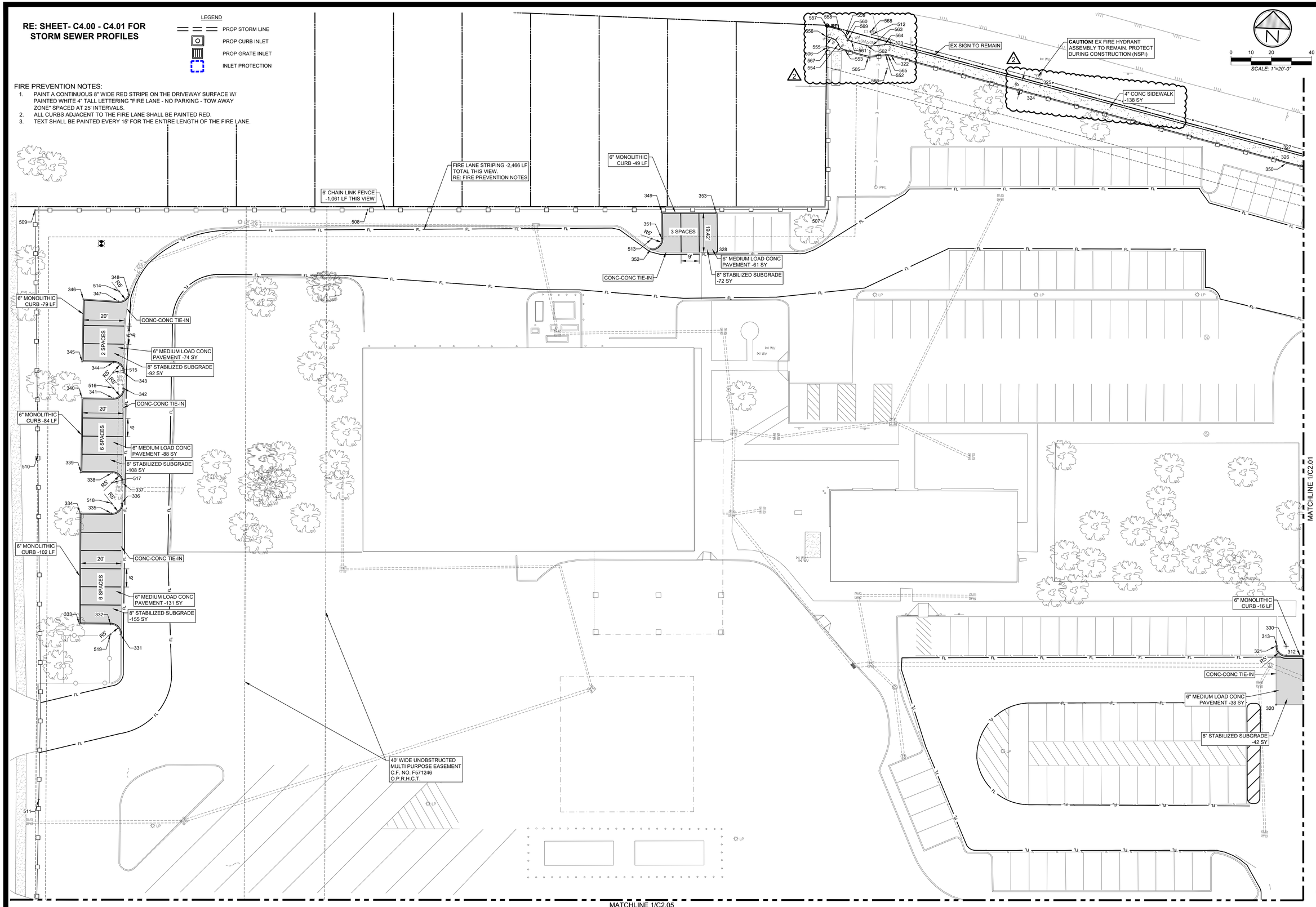
RE: SHEET- C4.00 - C4.01 FOR STORM SEWER PROFILES

LEGEND

- PROP STORM LINE
- PROP CURB INLET
- PROP GRATE INLET
- INLET PROTECTION

FIRE PREVENTION NOTES:

1. PAINT A CONTINUOUS 8" WIDE RED STRIPE ON THE DRIVEWAY SURFACE W/ PAINTED WHITE 4" TALL LETTERING "FIRE LANE - NO PARKING - TOW AWAY ZONE" SPACED AT 25' INTERVALS.
2. ALL CURBS ADJACENT TO THE FIRE LANE SHALL BE PAINTED RED.
3. TEXT SHALL BE PAINTED EVERY 15' FOR THE ENTIRE LENGTH OF THE FIRE LANE.



Site and Erosion Control Plan

1"=20'-0" | 1

REVISIONS	DATE	
Addendum 2	5/19/26	1
----	----	2
----	----	3
----	----	4

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T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10119300

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LANDSCAPE - SURVEYING
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1977 COLESEUM DR. STE. 100 - FORT WORTH, TEXAS 76110 - (817) 731-5805
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE. - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
5/18//26

Transportation Facility Improvements

Tomball ISD
Tomball, Texas

JOB NUMBER 364003

SHEET NO. C2.04

FIRE PREVENTION NOTES:

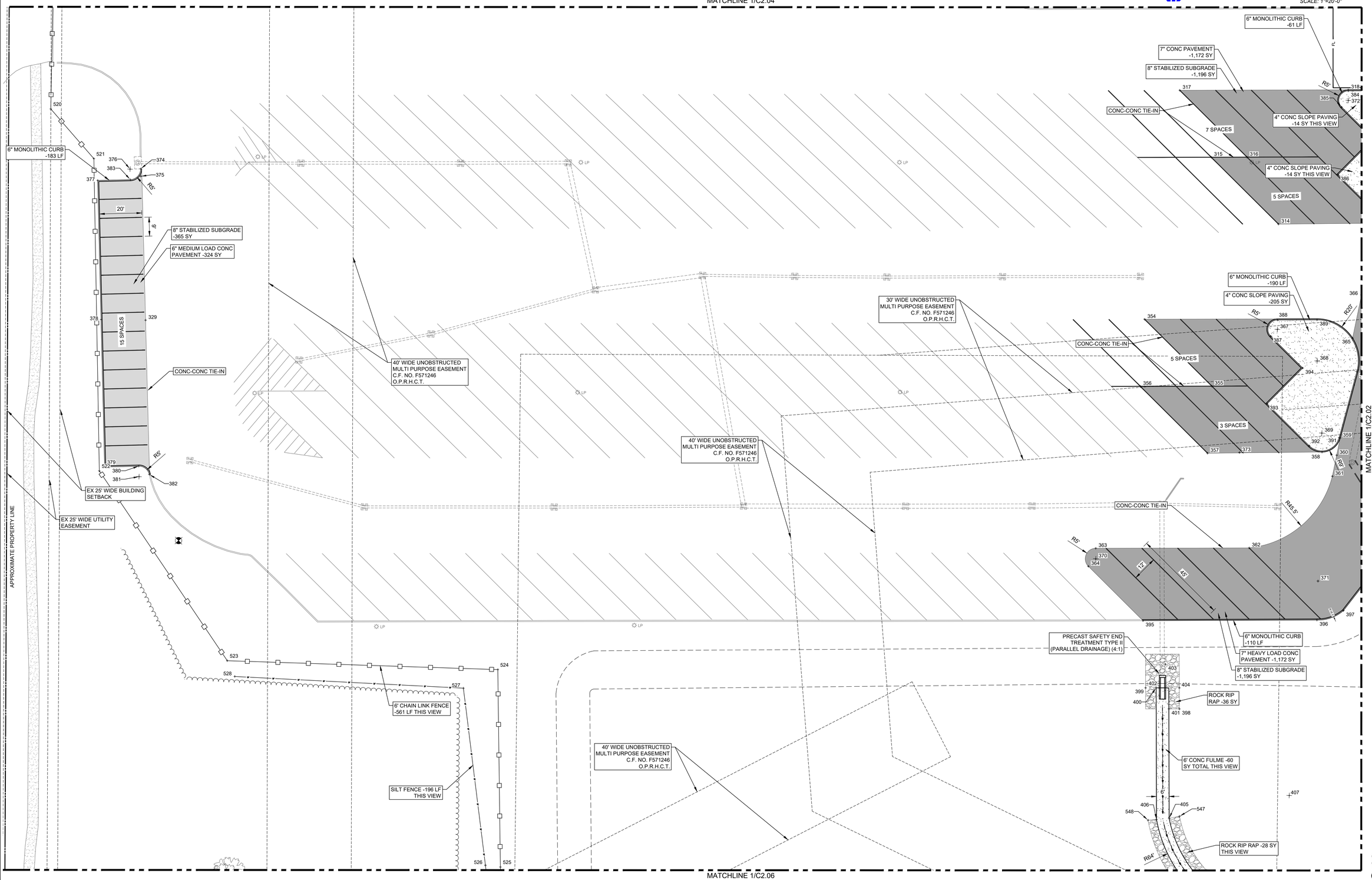
1. PAINT A CONTINUOUS 8" WIDE RED STRIPE ON THE DRIVEWAY SURFACE W/ PAINTED WHITE 4" TALL LETTERING "FIRE LANE - NO PARKING - TOW AWAY ZONE" SPACED AT 25' INTERVALS.
2. ALL CURBS ADJACENT TO THE FIRE LANE SHALL BE PAINTED RED.
3. TEXT SHALL BE PAINTED EVERY 15' FOR THE ENTIRE LENGTH OF THE FIRE LANE.

RE: SHEET- C4.00 - C4.01 FOR STORM SEWER PROFILES

LEGEND
- PROP STORM LINE
- PROP CURB INLET
- PROP GRATE INLET
- INLET PROTECTION

N

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



REVISIONS	DATE	
1	5/19/26	Addendum 2
2	-----	-----
3	-----	-----
4	-----	-----

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T.B.A.E. FIRM NO. BR 351
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LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 200 - LUFKIN, TEXAS 75901 - (936) 637-4900
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455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
615 AUSTIN AVE. - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
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Michael Holmes
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Site & Erosion Control Plan

JOB NUMBER 364003

SHEET NO. C2.05

Site and Erosion Control Plan — 1"=20'-0" — 1

FIRE PREVENTION NOTES:

1. PAINT A CONTINUOUS 8" WIDE RED STRIPE ON THE DRIVEWAY SURFACE W/ PAINTED WHITE 4" TALL LETTERING "FIRE LANE - NO PARKING - TOW AWAY ZONE" SPACED AT 25' INTERVALS.
2. ALL CURBS ADJACENT TO THE FIRE LANE SHALL BE PAINTED RED.
3. TEXT SHALL BE PAINTED EVERY 15' FOR THE ENTIRE LENGTH OF THE FIRE LANE.

RE: SHEET- C4.00 - C4.01 FOR STORM SEWER PROFILES

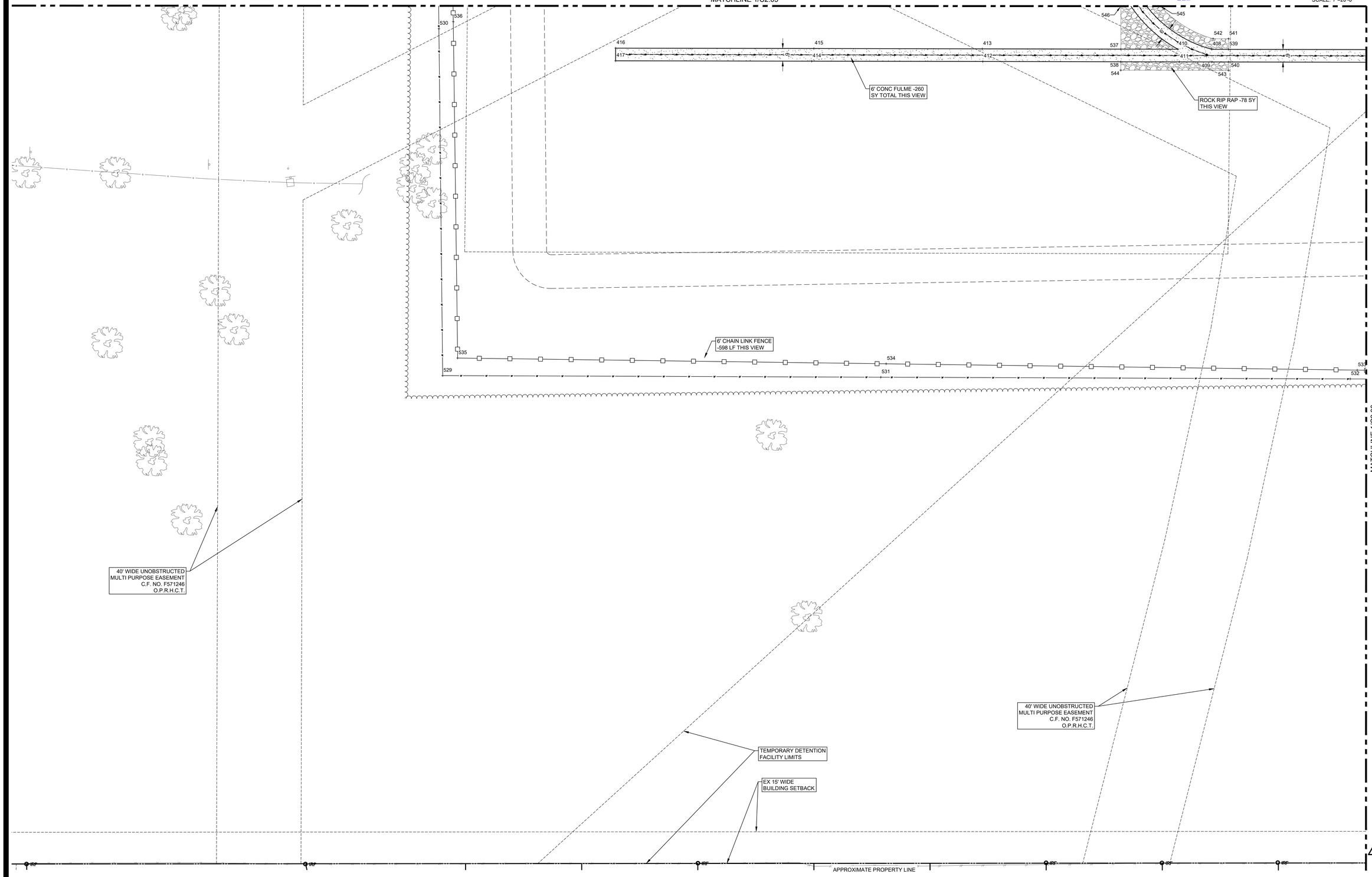
LEGEND

- PROP STORM LINE
- PROP CURB INLET
- PROP GRATE INLET
- INLET PROTECTION

0 10 20 40

SCALE: 1"=20'-0"

MATCHLINE 1/C2.05



MATCHLINE 1/C2.03

Site and Erosion Control Plan

1"=20'-0" | 1

	DATE	REVISIONS
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

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T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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LANDSCAPE - SURVEYING
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1555 LOOKOUT DR. STE. 100 - TYLER, TEXAS 75701 - (903) 581-7727
FOSSIL CREEK BLVD. STE. 107 - FORT WORTH, TEXAS 76137 - (817) 349-3805
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 215-1544

STATE OF TEXAS
MICHAEL G. HOLMES
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5/18//26

Transportation Facility Improvements

Tomball ISD
Tomball, Texas

Site & Erosion Control Plan

JOB NUMBER 364003

SHEET NO.

C2.06

Point Table

Point #	Raw Description	Northing	Easting
1	BC/SW	13965619.2268	3035033.5977
2	BC	13965613.1877	3035032.7107
3	BC	13965575.3015	3035021.5857
4	BC	13965572.2016	3035016.3201
5	BC	13965582.4803	3034969.0589
6	BC	13965593.6450	3034961.9867
7	BC	13965595.2885	3034962.3277
8	BC	13965569.1600	3034918.9500
9	BC	13965567.1700	3034927.7835
10	BC	13965562.0393	3034932.0697
11	BC	13965554.1114	3034932.4085
12	BC	13965549.4234	3034928.1047
13	BC	13965548.7614	3034912.6106
14	BC	13965439.8621	3034917.2963
15	BC	13965440.5122	3034932.5116
16	BC	13965436.0118	3034937.2037
17	BC	13965412.0761	3034937.1798
18	BC	13965407.5846	3034932.8684
19	BC/EC	13965381.9352	3034917.9199
20	BC	13965379.3326	3034915.5269
21	BC	13965377.4214	3034915.6071
22	BC/EC	13965373.1140	3034920.2918
23	BC/EC	13965373.8137	3034936.9658
24	BC/EC	13965345.0984	3034954.4018
25	BC/EC	13965291.8572	3034939.7550
26	BC/EC	13965291.2429	3034921.7036
27	BC	13965289.1709	3034919.3105
28	BC	13965287.2858	3034919.3897
29	BC/EC	13965285.3714	3034921.4718
30	BC/EC	13965286.2143	3034941.5579
31	BC/EC	13965300.6823	3034957.0629
32	BC/EC	13965372.1296	3034973.0485
33	BC/CURB INLET	13965383.6577	3034958.9644
34	BC/EC	13965439.8667	3034962.2076
35	BC/EC	13965420.3823	3034962.1881
36	BC/EC	13965413.1824	3034977.8968
37	BC/EC	13965422.7071	3034984.3646
38	BC/EC	13965531.9080	3035008.7971
39	BC/EC	13965550.4016	3034997.1292
40	BC/EC	13965557.5889	3034965.7267
41	BC/EC	13965557.3313	3034964.2141
42	BC/EC	13965552.8773	3034959.8844
43	BC/EC	13965550.9647	3034961.9711
44	BC/EC	13965551.7608	3034979.9293
45	BC/EC	13965442.7754	3034984.5432
46	BC/EC	13965441.8629	3034964.1226
47	BC/EC	13965345.7772	3035034.2746
48	BC/EC	13965351.9874	3035041.7035
49	BC/EC	13965370.0819	3035030.2237
50	BC/EC	13965382.9391	3035050.4892
51	BC/EC	13965408.2965	3035034.4015
52	BC/EC	13965407.1857	3035028.0305
53	BC/EC	13965369.0646	3035019.5014
54	BC/EC	13965451.2036	3035060.6420
55	BC/EC	13965458.0058	3035065.4240
56	BC/EC	13965476.1003	3035053.9441
57	BC/EC	13965488.9576	3035074.2096
58	BC/EC	13965514.3150	3035058.1219
59	BC/EC	13965513.2041	3035051.7510
60	BC/EC	13965475.0831	3035043.2218
61	BC	13965462.2465	3035483.8657
62	BC	13965509.2931	3035444.4377
63	BC	13965589.4463	3035086.0688
64	BC	13965560.6220	3035104.3561
65	BC	13965553.8197	3035099.5741
66	BC	13965560.4393	3035069.9776
67	BC	13965566.2191	3035066.6793
68	BC	13965605.3254	3035079.3630
69	BC/SW	13965609.3913	3035080.6817
70	BC/EC	13965301.1655	3035004.3179
71	BC/EC	13965302.2764	3035010.6889
72	BC/EC	13965317.8843	3035436.7080

Point Table

Point #	Raw Description	Northing	Easting
73	BC/EC	13965321.7419	3035428.7216
74	BC/EC	13965322.3320	3035426.0832
75	BC/EC	13965315.5298	3035421.3012
76	BC/EC	13965371.6726	3035426.8950
77	BC/EC	13965370.5618	3035420.5241
78	BC/EC	13965395.9192	3035404.4363
79	BC/EC	13965408.7764	3035424.7019
80	BC/EC	13965426.8710	3035413.2220
81	BC/EC	13965433.6732	3035418.0040
82	BC/EC	13965409.7937	3035435.4242
83	EC/SW	13965624.2288	3035034.1475
84	EC	13965646.4011	3035014.5063
85	EC	13965647.8305	3035007.8588
86	EC	13965649.7858	3035008.2792
87	EC	13965626.9734	3035114.3688
88	EC	13965625.0307	3035113.9524
89	EC	13965626.1769	3035108.6056
90	EC/SW	13965614.2780	3035081.7410
91	SW	13965589.9999	3035189.1237
92	SW	13965585.1230	3035188.0211
93	SW	13965560.8859	3035295.2223
94	SW	13965565.7628	3035296.3250
95	SW	13965552.7464	3035315.3524
96	SW	13965557.6233	3035316.4550
97	SW	13965553.2128	3035335.9626
98	SW	13965548.3359	3035334.8600
99	SW	13965547.6545	3035353.7452
100	SW	13965552.5314	3035354.8479
101	SW	13965529.4323	3035434.2509
102	SW	13965534.3092	3035435.3535
103	SW	13965506.7560	3035534.4350
104	SW	13965511.9770	3035534.2210
105	BC/EC	13965555.1755	3034960.7939
106	GI	13965443.6608	3034947.6374
107	GI	13965439.8352	3034951.8045
108	EC/CURB INLET	13965376.4925	3034943.2510
109	BC/CURB INLET	13965382.9868	3034942.9784
110	GI	13965416.8077	3035120.5064
111	GI	13965410.8369	3035124.2945
112	GI	13965518.4310	3035144.7896
113	GI	13965524.4017	3035141.0015
114	GI	13965382.0045	3035273.8223
115	GI	13965377.2279	3035276.8528
116	GI	13965488.3258	3035290.6386
117	GI	13965482.3550	3035294.4267
118	GI	13965460.0955	3035408.1907
119	GI	13965466.0663	3035404.4026
120	GI	13965353.6218	3035390.6775
121	GI	13965358.3600	3035387.5873
122	BC	13965562.9324	3035204.6139
123	BC	13965532.9075	3035338.8564
124	BC	13965400.0764	3035483.3400
125	BC	13965314.3547	3035482.6151
126	R	13965377.6100	3034920.1031
127	R	13965379.4374	3034918.0247
128	R	13965374.3542	3034963.8126
129	R	13965313.5762	3034930.5293
130	R	13965288.2801	3034922.1755
131	R	13965420.3727	3034971.6881
132	R	13965412.0806	3034932.6798
133	R	13965436.0163	3034932.7037
134	R	13965439.8647	3034964.2076
135	R	13965535.2923	3034993.6710
136	R	13965553.9193	3034927.9126
137	R	13965561.8045	3034926.5747
138	R	13965591.7149	3034971.2885
139	R	13965576.5987	3035017.2767
140	R	13965564.8308	3035070.9598
141	R	13965558.2112	3035100.5563
142	R	13965601.7323	3035103.3652
143	R	13965621.8008	3035009.2269
144	R	13965460.0107	3035433.4152

Point Table

Point #	Raw Description	Northing	Easting
145	R	13965429.2817	3035417.0218
146	R	13965414.0514	3035416.3946
147	R	13965372.4368	3035423.4794
148	R	13965512.4399	3035055.1665
149	R	13965470.8254	3035062.2513
150	R	13965455.5951	3035061.6242
151	R	13965406.4215	3035031.4461
152	R	13965364.8070	3035038.5309
153	R	13965349.5767	3035037.9038
154	R	13965300.4013	3035007.7335
155	R	13965317.9405	3035425.1010
156	EC	13965603.6037	3034927.0922
157	R	13965553.4835	3034961.8603
158	R	13965555.6393	3034965.2805
159	SW	13965647.1413	3034932.8557
160	SW	13965642.2765	3034931.6997
161	BC/EC	13965245.7410	3034919.5646
162	BC	13965222.0026	3034939.4592
163	BC/EC	13965187.1446	3034931.6602
164	BC/EC	13965184.8071	3034924.2311
165	BC/EC	13965276.9190	3035026.7766
166	BC/EC	13965264.0617	3035006.5111
167	BC/EC	13965245.9672	3035017.9909
168	BC/EC	13965239.1650	3035013.2089
169	BC/EC	13965239.7570	3035010.5620
170	BC/EC	13965263.0445	3034995.7888
171	BC/EC	13965297.4352	3035432.7811
172	BC/EC	13965284.5780	3035412.5155
173	BC/EC	13965259.2206	3035428.6033
174	BC/EC	13965260.3312	3035434.9741
175	BC/EC	13965265.8660	3035436.2090
176	BC/EC	13965298.5082	3035436.5221
177	BC	13965260.5661	3035482.1603
178	BC	13965301.5585	3035482.5069
179	BC	13965215.1774	3035472.0065
180	BC	13965151.9415	3035457.8602
181	BC	13965147.1387	3035479.3296
182	BC	13965098.1741	3035468.3759
183	BC	13965031.9849	3035453.5689
184	BC	13965036.7877	3035432.0995
185	BC	13964982.1660	3035419.8802
186	BC	13964944.5710	3035358.8959
187	BC	13964960.6115	3035287.1783
188	BC	13964983.5765	3035184.5008
189	BC	13965013.3369	3035051.4404
190	BC	13965034.3847	3034957.3350
191	BC	13965024.5726	3034931.7502
192	BC/EC	13965195.1454	3034980.6053
193	BC/EC	13965196.2562	3034986.9762
194	BC/EC	13965170.8988	3035003.0640
195	BC/EC	13965158.0416	3034982.7984
196	BC/EC	13965139.9470	3034994.2783
197	BC/EC	13965133.1448	3034989.4963
198	BC/EC	13965133.7368	3034986.8494
199	BC/EC	13965157.0243	3034972.0761
200	BC/EC	13965209.5096	3035397.5886
201	BC/EC	13965216.3118	3035402.3706
202	BC/EC	13965215.7198	3035405.0175
203	BC/EC	13965192.4324	3035419.7908
204	BC/EC	13965154.3113	3035411.2616
205	BC/EC	13965153.2005	3035404.8907
206	BC/EC	13965178.5578	3035388.8029
207	BC/EC	13965191.4151	3035409.0685
208	BC/EC	13965103.4894	3035373.8760
209	BC/EC	13965110.2917	3035378.6580
210	BC/EC	13965109.6996	3035381.3049
211	BC/EC	13965086.4122	3035396.0781
212	BC/EC	13965048.2911	3035387.5490
213	BC/EC	13965047.1803	3035381.1780
214	BC/EC	13965072.5377	3035365.0903
215	BC/EC	13965085.3949	3035385.3558
216	BC	13965086.9118	3034985.4624

Point Table

Point #	Raw Description	Northing	Easting
217	BC	13965085.9359	3034985.2442
218	BC	13965064.6717	3035080.3176
219	BC	13965065.6387	3035080.5756
220	BC	13965037.4348	3035202.0951
221	BC	13965038.4021	3035202.3518
222	BC	13965000.6958	3035370.9385
223	BC	13964999.7199	3035370.7202
224	EC	13965182.8991	3034921.2197
225	EC	13965246.2602	3034920.4297
226	EC	13965277.9021	3034919.2507
227	GI	13965201.7779	3035086.4365
228	GI	13965195.8071	3035090.2246
229	GI	13965041.8888	3035062.7094
230	GI	13965035.9567	3035066.5578
231	GI	13965013.8543	3035190.6137
232	GI	13965007.8949	3035194.4198
233	GI	13965170.2915	3035227.2746
234	GI	13965164.3208	3035231.0627
235	GI	13965141.6781	3035353.0896
236	GI	13965136.9190	3035356.1475
237	GI	13964982.9533	3035326.8162
238	GI	13964976.9602	3035330.5689
239	S.E.T.	13965006.9444	3034954.9885
240	S.E.T.	13964994.5206	3034968.5035
241	S.E.T.	13964989.7075	3035060.1038
242	S.E.T.	13964975.6033	3035054.7716
243	S.E.T.	13964961.6217	3035185.1412
244	S.E.T.	13964947.8416	3035179.0198
245	S.E.T.	13964931.3537	3035298.3896
246	S.E.T.	13964923.7011	3035289.6146
247	R	13965011.0803	3034951.5986
248	R	13964995.4452	3035087.2803
249	R	13964912.0271	3035073.2578
250	R	13964992.4499	3035371.4603
251	R	13965049.0553	3035384.1334
252	R	13965105.9002	3035377.6758
253	R	13965090.6698	3035377.0486
254	R	13965155.0755	3035407.8460
255	R	13965211.9203	3035401.3884
256	R	13965196.6900	3035400.7612
257	R	13965261.0956	3035431.5587
258	R	13965299.4913	3035422.8982
259	R	13965258.7868	3035014.8183
260	R	13965243.5565	3035014.1911
261	R	13965226.2602	3034920.4297
262	R	13965188.1272	3034927.2687
263	R	13965137.5363	3034990.4785
264	R	13965194.3812	3034984.0209
265	RIP RAP	13964938.6551	3035293.6783
266	RIP RAP	13964910.2950	3035290.7753
267	RIP RAP	13964936.2597	3035186.8635
268	RIP RAP	13964968.3550	3035176.2768
269	RIP RAP	13964964.4242	3035063.1226
270	RIP RAP	13964995.8877	3035051.1930
271	RIP RAP	13964989.7588	3034979.1703
272	RIP RAP	13965007.6452	3034947.2402
273	EC/RIP RAP	13964991.6870	3034964.4301
274	EC/RIP RAP	13964986.9038	3034975.0656
275	EC/RIP RAP	13964974.9994	3035059.4941
276	EC/RIP RAP	13964965.8490	3035052.2152
277	EC/RIP RAP	13964946.9761	3035183.6762
278	EC/RIP RAP	13964938.2246	3035176.0402
279	EC/RIP RAP	13964921.1700	3035293.3703
280	EC/RIP RAP	13964916.8797	3035281.9413
281	EC	13964940.0969	3035007.6213
282	EC	13964936.6733	3035002.6939
283	EC/RIP RAP	13964918.0668	3035028.7860
284	EC/RIP RAP	13964913.2805	3035025.1678
285	EC/RIP RAP	13964904.9222	3035046.1742
286	EC/RIP RAP	13964915.7434	3035045.5055
287	EC/RIP RAP	13964914.9470	3035051.4524
288	EC	13964894.4773	3035059.9911

Point Table

Point #	Raw Description	Northing	Easting
289	EC	13964856.4246	3034959.4066
290	EC	13964850.4448	3034960.0347
291	EC/RIP RAP	13964861.7548	3035093.3279
292	EC/RIP RAP	13964856.0504	3035100.8739
293	EC/RIP RAP	13964856.7540	3035109.8929
294	EC/RIP RAP	13964815.5840	3035164.3541
295	EC/RIP RAP	13964847.5085	3035160.0418
296	EC/RIP RAP	13964846.4681	3035165.9509
297	EC/RIP RAP	13964800.8127	3035183.8940
298	EC/RIP RAP	13964793.3537	3035193.7611
299	EC/RIP RAP	13964774.3234	3035208.9854
300	EC/RIP RAP	13964779.1097	3035212.6036
301	EC/RIP RAP	13964782.9088	3035207.5779
302	EC/RIP RAP	13964814.5958	3035203.9882
303	EC/RIP RAP	13964818.4514	3035199.3910
304	EC	13964864.8003	3035246.0939
305	EC	13964868.5177	3035241.3809
306	R	13964838.3053	3035212.2366
307	R	13964800.4586	3035220.8447
308	RIP RAP	13964729.9210	3035260.1558
309	RIP RAP	13964733.9130	3035276.0638
310	S.E.T.	13964738.7501	3035261.0833
311	S.E.T.	13964734.2347	3035263.5680
312	BC	13965406.3610	3034903.7128
313	BC	13965410.7857	3034899.0246
314	EC	13965180.5519	3034874.8111
315	EC	13965210.9287	3034841.6110
316	EC	13965211.6816	3034858.5648
317	EC	13965242.0584	3034825.3647
318	EC	13965245.6054	3034905.2393
319	EC	13965382.3090	3034914.9015
320	EC	13965381.6730	3034899.7461
321	EC	13965410.7778	3034898.5247
322	EC	13965695.7404	3034695.3463
323	EC	13965700.6172	3034696.4495
324	EC	13965679.1794	3034768.5591
325	EC	13965683.9375	3034770.1871
326	EC	13965651.7904	3034889.6405
327	EC	13965656.7135	3034890.5388
328	EC	13965594.3867	3034612.9671
329	EC	13965112.5970	3034339.6554
330	R	13965410.8571	3034903.5241
331	BC	13965392.6484	3034325.4844
332	BC	13965397.4667	3034320.3140
333	BC	13965396.9284	3034304.8177
334	BC	13965451.8952	3034302.9081
335	BC	13965452.4383	3034318.5418
336	BC	13965457.5918	3034323.3657
337	BC	13965467.7264	3034323.1259
338	BC	13965472.5833	3034317.9867
339	BC	13965472.1456	3034302.4929
340	BC	13965509.1309	3034301.4483
341	BC	13965509.5685	3034316.9421
342	BC	13965514.7077	3034321.7989
343	BC	13965522.5492	3034321.4900
344	BC	13965527.3674	3034316.3719
345	BC	13965526.9899	3034300.8136
346	BC	13965558.1087	3034300.0586
347	BC	13965557.6808	3034317.5530
348	BC	13965561.5330	3034322.5422
349	BC	13965613.1049	3034584.9857
350	CHAINLINK FENCE	13965650.3945	3034893.5451
351	BC	13965600.0153	3034585.6479
352	BC	13965594.7678	3034580.4299
353	BC	13965614.1296	3034611.9709
354	EC	13965132.7729	3034813.2304
355	EC	13965102.3961	3034846.4305
356	EC	13965100.8903	3034812.5228
357	EC	13965070.5135	3034845.7229
358	EC	13965073.3206	3034899.9593
359	EC	13965080.3435	3034908.2770
360	EC	13965072.1085	3034906.9802

Point Table

Point #	Raw Description	Northing	Easting
361	EC	13965062.0400	3034905.3230
362	EC	13965026.4276	3034867.3066
363	EC	13965023.1988	3034794.5965
364	EC	13965014.5148	3034791.4431
365	EC	13965127.9793	3034912.1776
366	EC	13965148.5819	3034915.5697
367	R	13965130.5719	3034876.3730
368	R	13965116.4223	3034895.8547
369	R	13965082.3086	3034899.4941
370	R	13965018.2037	3034794.8183
371	R	13965012.0637	3034900.5997
372	R	13965240.6103	3034905.4611
373	R	13965071.4613	3034860.8091
374	BC	13965184.2190	3034334.3339
375	BC	13965180.7234	3034334.5637
376	R	13965183.8907	3034329.3447
377	BC	13965177.8789	3034314.2066
378	BC	13965111.9890	3034318.5633
379	BC	13965042.1752	3034323.1795
380	BC	13965043.2431	3034339.3301
381	R	13965038.2540	3034339.6600
382	R	13965039.4944	3034344.5037
383	R	13965178.9017	3034329.6747
384	BC	13965245.1059	3034905.2615
385	BC	13965237.2903	3034902.4235
386	BC	13965205.1182	3034902.0323
387	BC	13965127.2519	3034873.3353
388	BC	13965135.0675	3034876.1734
389	BC	13965135.9031	3034894.9896
390	BC	13965112.1646	3034914.8842
391	BC	13965080.4527	3034907.7891
392	BC	13965076.0375	3034893.7563
393	BC	13965095.0798	3034872.9442
394	BC	13965112.7865	3034889.1451
395	BC	13964989.8000	3034818.4210
396	BC	13964993.5656	3034900.8587
397	BC	13964998.5592	3034913.2445
398	RIP RAP	13964948.6928	3034837.4185
399	RIP RAP	13964958.0005	3034820.9876
400	EC/RIP RAP	13964958.2232	3034825.9826
401	EC/RIP RAP	13964948.4701	3034832.4235
402	S.E.T.	13964958.2784	3034827.3771
403	S.E.T.	13964969.6380	3034829.9306
404	RIP RAP	13964958.6829	3034836.9731
405	EC/RIP RAP	13964896.6304	3034834.7350
406	EC/RIP RAP	13964895.8209	3034828.7652
407	R	13964909.8175	3034891.2017
408	EC/RIP RAP	13964853.2097	3034878.6338
409	EC/RIP RAP	13964847.2191	3034878.9901
410	EC/RIP RAP	13964852.5721	3034862.6151
411	EC/RIP RAP	13964846.6034	3034863.5196
412	EC	13964842.9031	3034770.5509
413	EC	13964848.8868	3034770.0216
414	EC	13964839.6811	3034689.6000
415	EC	13964845.7146	3034690.3215
416	EC	13964841.9812	3034596.5205
417	EC	13964835.9859	3034596.7591
418	BC/EC	13965369.0876	3034972.3679
419	BC/EC	13965371.8745	3034960.8639
420	BC/EC	13965318.3224	3034947.9398
421	BC/EC	13965315.3233	3034960.3387
422	RIP RAP	13964921.2577	3035031.1981
423	RIP RAP	13964929.0008	3035043.2451
424	RIP RAP	13964913.6997	3035041.1961
425	RIP RAP	13964927.1427	3035057.1213
426	RIP RAP	13964907.4569	3035062.0174
427	RIP RAP	13964893.6589	3035067.7069
428	EC/RIP RAP	13964890.4680	3035065.2947
429	EC/RIP RAP	13964885.6817	3035061.6765
430	RIP RAP	13964882.4908	3035059.2644
431	RIP RAP	13964910.0897	3035022.7557
432	EC/RIP RAP	13964928.4699	3035047.2097

Point Table

Point #	Raw Description	Northing	Easting
433	EC/RIP RAP	13964927.6736	3035053.1567
434	EC/RIP RAP	13964855.1927	3035079.3235
435	EC/RIP RAP	13964861.2679	3035079.4187
436	EC/RIP RAP	13964870.6262	3035081.5925
437	EC/RIP RAP	13964875.2440	3035085.4335
438	EC/RIP RAP	13964838.4304	3035134.1408
439	EC/RIP RAP	13964833.5220	3035130.6551
440	EC/RIP RAP	13964840.4496	3035225.6714
441	EC/RIP RAP	13964844.3052	3035221.0742
442	EC/RIP RAP	13964871.4703	3035164.2401
443	EC/RIP RAP	13964870.4349	3035170.1501
444	RIP RAP	13964843.3202	3035137.6132
445	RIP RAP	13964848.5440	3035154.1318
446	RIP RAP	13964872.5082	3035158.3306
447	RIP RAP	13964869.4017	3035176.0605
448	RIP RAP	13964845.4376	3035171.8617
449	RIP RAP	13964822.3070	3035194.7938
450	RIP RAP	13964848.1608	3035216.4770
451	RIP RAP	13964836.5940	3035230.2687
452	RIP RAP	13964810.7402	3035208.5855
453	RIP RAP	13964783.8959	3035216.2218
454	RIP RAP	13964769.5371	3035205.3672
455	RIP RAP	13964828.6378	3035127.1867
456	RIP RAP	13964851.1959	3035079.4826
457	RIP RAP	13964852.0536	3035101.0329
458	RIP RAP	13964851.9677	3035106.2747
459	RIP RAP	13964861.5402	3035113.5111
460	RIP RAP	13964880.0303	3035089.0517
461	SILT FENCE	13965514.6103	3035545.9739
462	SILT FENCE	13965553.8191	3035365.1222
463	SILT FENCE	13965593.8055	3035180.6839
464	SILT FENCE	13965610.4194	3035104.0523
465	SILT FENCE	13965616.1636	3035086.1343
466	SILT FENCE	13965627.4642	3035030.7504
467	SILT FENCE	13965656.0610	3034907.9149
468	SILT FENCE	13965512.0383	3035502.3968
469	SILT FENCE	13965311.9886	3035505.3416
470	CHAINLINK FENCE	13965514.8624	3035496.3559
471	CHAINLINK FENCE	13965312.2053	3035493.5433
472	CHAINLINK FENCE	13965547.1565	3035353.6805
473	CHAINLINK FENCE	13965547.8379	3035334.7953
474	CHAINLINK FENCE	13965552.2676	3035315.2025
475	CHAINLINK FENCE	13965560.4072	3035295.0725
476	CHAINLINK FENCE	13965608.6550	3035081.6714
477	CHAINLINK FENCE	13965564.0139	3035072.4593
478	CHAINLINK FENCE	13965576.3641	3035017.4794
479	CHAINLINK FENCE	13965620.1212	3035027.3774
480	CHAINLINK FENCE	13965648.3748	3034902.4740
481	LIGHT POLE	13965320.7490	3035289.4546
482	LIGHT POLE	13965407.2586	3035428.6887
483	LIGHT POLE	13965426.7674	3035313.1750
484	LIGHT POLE	13965467.5130	3035130.9998
485	LIGHT POLE	13965497.2189	3034984.5898
486	LIGHT POLE	13965334.2880	3034940.3487
487	LIGHT POLE	13965361.4945	3035107.2794
488	LIGHT POLE	13965183.0199	3035410.5883
489	LIGHT POLE	13965293.5467	3035433.4262
490	LIGHT POLE	13965255.4744	3035083.5668
491	LIGHT POLE	13965149.4542	3035059.8542
492	LIGHT POLE	13965101.3004	3035275.1522
493	LIGHT POLE	13965207.3205	3035298.8648
494	LIGHT POLE	13965080.8414	3035388.5644
495	CHAINLINK FENCE	13965125.9798	3035490.9588
496	CHAINLINK FENCE	13964910.7479	3035438.0383
497	CHAINLINK FENCE	13965267.5697	3035492.9238
498	SILT FENCE	13965205.5515	3035507.1189
499	SILT FENCE	13965008.6184	3035474.8791
500	SILT FENCE	13964927.2662	3035447.4666
501	SILT FENCE	13964905.5440	3035442.1309
502	CHAINLINK FENCE	13964660.7989	3035211.6345
503	CHAINLINK FENCE	13964707.3741	3035068.3684
504	CHAINLINK FENCE	13964792.8615	3035360.9436

Point Table

Point #	Raw Description	Northing	Easting
505	CHAINLINK FENCE	13965694.1613	3034684.1961
506	CHAINLINK FENCE	13965698.6232	3034663.9658
507	CHAINLINK FENCE	13965618.0818	3034667.5088
508	CHAINLINK FENCE	13965608.1745	3034439.1960
509	CHAINLINK FENCE	13965601.2100	3034274.3780
510	CHAINLINK FENCE	13965480.0050	3034280.8215
511	CHAINLINK FENCE	13965309.0725	3034288.3709
512	SILT FENCE	13965705.5978	3034685.5493
513	R	13965599.7627	3034580.6542
514	R	13965562.6793	3034317.6753
515	R	13965522.3689	3034316.4932
516	R	13965514.5665	3034316.8009
517	R	13965467.5853	3034318.1279
518	R	13965457.4353	3034318.3682
519	R	13965392.4697	3034320.4876
520	CHAINLINK FENCE	13965210.8600	3034290.5550
521	CHAINLINK FENCE	13965188.1345	3034311.9610
522	CHAINLINK FENCE	13965040.1962	3034320.7150
523	CHAINLINK FENCE	13964952.7070	3034385.1400
524	CHAINLINK FENCE	13964953.8495	3034513.5490
525	CHAINLINK FENCE	13964860.2901	3034518.6752
526	SILT FENCE	13964860.7863	3034511.5610
527	SILT FENCE	13964944.3598	3034497.5975
528	SILT FENCE	13964945.3820	3034389.0233
529	SILT FENCE	13964683.4772	3034521.1483
530	SILT FENCE	13964847.6656	3034512.5098
531	SILT FENCE	13964691.3721	3034728.5311
532	SILT FENCE	13964699.8292	3034950.6800
533	CHAINLINK FENCE	13964704.1353	3034953.8173
534	CHAINLINK FENCE	13964697.8290	3034730.7775
535	CHAINLINK FENCE	13964692.0926	3034527.8910
536	CHAINLINK FENCE	13964851.2854	3034519.1686
537	EC/RIP RAP	13964851.4975	3034835.6159
538	EC/RIP RAP	13964845.5023	3034835.8545
539	EC/RIP RAP	13964853.5254	3034886.5652
540	EC/RIP RAP	13964847.5301	3034886.8038
541	RIP RAP	13964858.5214	3034886.3664
542	RIP RAP	13964858.2322	3034879.0986
543	RIP RAP	13964843.5333	3034886.9629
544	RIP RAP	13964841.5054	3034836.0136
545	RIP RAP	13964872.6188	3034853.4686
546	RIP RAP	13964871.8488	3034834.8059
547	RIP RAP	13964897.7675	3034839.6040
548	RIP RAP	13964895.2956	3034824.7846
549	SIGN	13964985.6134	3035362.6053
550	SIGN	13965045.6155	3034966.4197
551	BC/EC	13965383.8513	3034963.5784
552	EC	13965695.8450	3034692.8292
553	EC	13965697.3038	3034672.5670
554	EC	13965700.0480	3034669.1475
555	EC	13965702.9714	3034665.6441
556	EC	13965703.5391	3034663.1354
557	EC	13965708.7034	3034662.9846
558	EC	13965707.3114	3034669.1269
559	EC	13965704.5677	3034672.5442
560	EC	13965703.9456	3034672.8376
561	EC	13965701.7502	3034675.5732
562	EC	13965700.0100	3034683.2684
563	EC	13965699.9055	3034685.7851
564	EC	13965700.7964	3034692.1344
565	CHAINLINK FENCE	13965695.5352	3034693.9870
566	R	13965688.9129	3034693.8019
567	R	13965698.0947	3034664.5405
568	R	13965706.8376	3034684.8124
569	R	13965702.1806	3034673.6699
570	EC	13965599.2794	3034997.4260
571	EC	13965594.8669	3035016.9331
572	EC	13965609.4972	3035020.2425
573	EC	13965613.9098	3035000.7354

LEGEND

BC	BACK OF CURB
EC	EDGE OF CONCRETE
GI	GRATE INLET
R	RADIUS
S.E.T.	SAFETY END TREATMENT
SW	SIDEWALK

#	DATE	REVISIONS
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

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DRAWN BY: TW APPV'D BY: MH ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
613 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED PROFESSIONAL ENGINEER
Michael Holmes
5/18//26

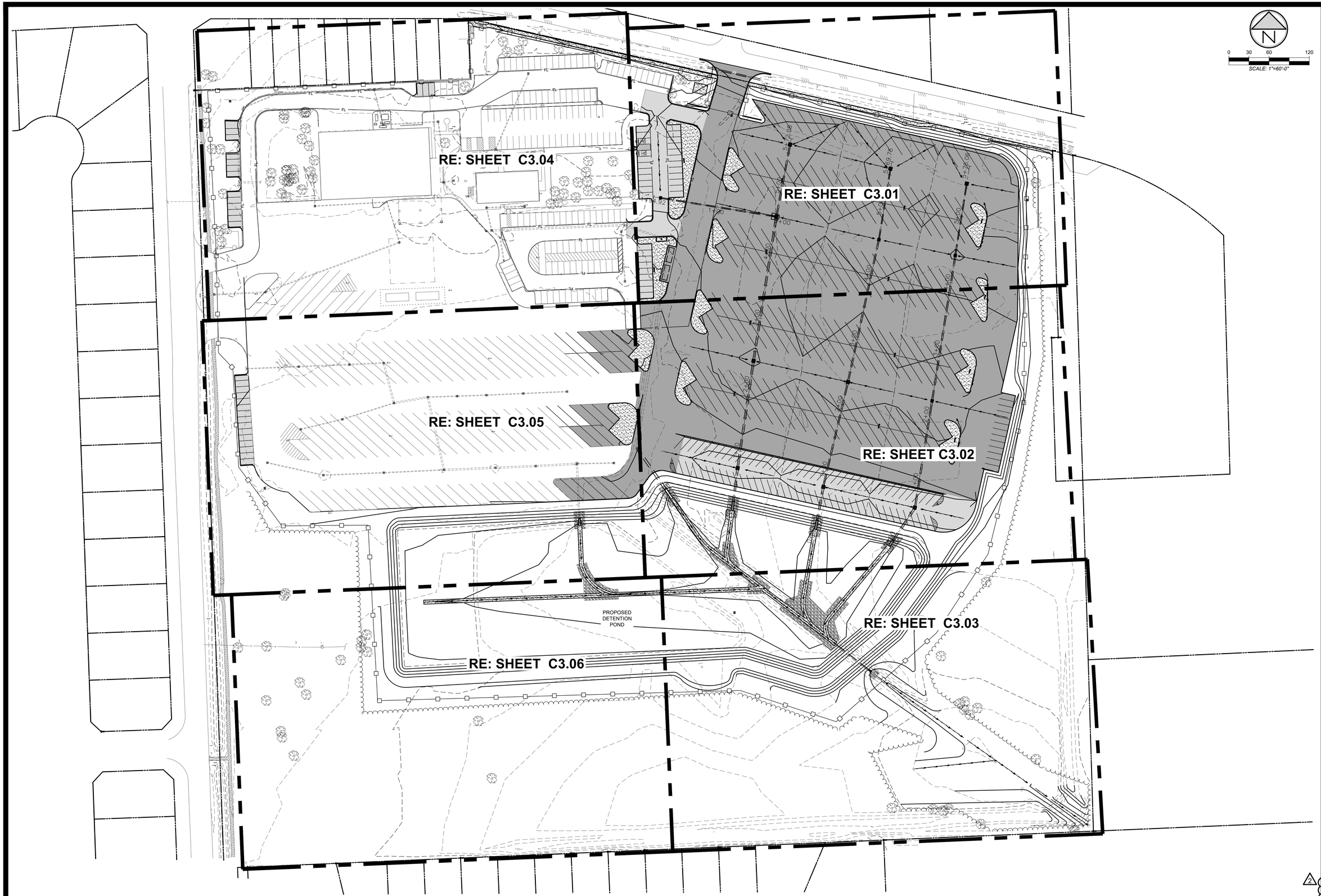
Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Coordinate Table

JOB NUMBER 364003

SHEET NO. (2)
C2.07

Coordinate Table

N.T.S. 1



0 30 60 120

SCALE: 1"=60'-0"

REVISIONS	DATE	
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

D:\364003\400364003_C4.00 Overall Grading Plan.dwg 5/11/2026 2:21 PM

DRAWN BY: TW | APP'D BY: MH | ISSUED: 04/02/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110800

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1909 S. CHESTNUT ST. STE. 202 - LUFKIN, TEXAS 75901 - (936) 637-4900
4277 COMMERCE ST. STE. 100 - EAST TEXAS 75702 - (903) 581-2224
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

Michael Holmes

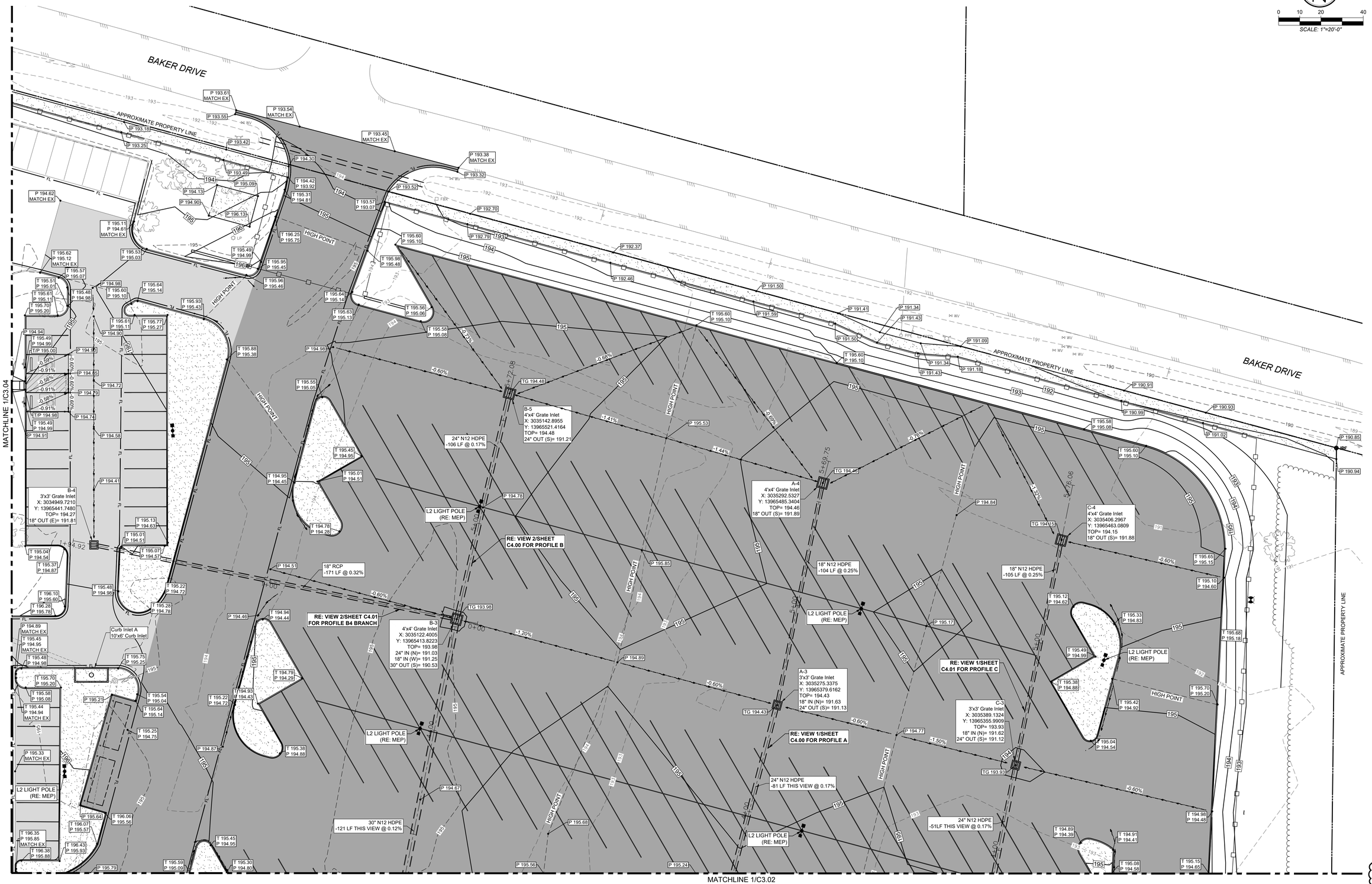
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Overall Grading & Utility Plan

JOB NUMBER 364003

SHEET NO. C3.00

Overall Grading and Utility Plan | 1"=60'-0" | 1



REVISIONS	DATE	
1 Addendum 2	5/19/26	
2 ----	----	
3 ----	----	
4 ----	----	

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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GLS
ARCHITECTURE - ENGINEERING - INTERIORS
LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 202 LUFKIN, TEXAS 75901 (936) 637-4900
1700 S. MAIN ST. STE. 200 GRAPEVINE, TEXAS 76051 (817) 416-5165
5757 ALPHA RD. STE. 107 DALLAS, TEXAS 75240 (972) 991-5755
455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 581-3805
615 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

STATE OF TEXAS
MICHAEL S. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
Michael Holmes
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Grading & Utility Plan

JOB NUMBER 364003
SHEET NO. C3.01

Grading and Utility Plan | 1"=20'-0" | 1

MATCHLINE 1/C3.01

MATCHLINE 1/C3.05

MATCHLINE 1/C3.03

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

RE: VIEW 2/SHEET C4.00 FOR PROFILE B

RE: VIEW 1/SHEET C4.00 FOR PROFILE A

RE: VIEW 1/SHEET C4.01 FOR PROFILE C

30" N12 HDPE -93 LF THIS VIEW @ 0.12%

24" N12 HDPE -133 LF THIS VIEW @ 0.17%

24" N12 HDPE -165 LF THIS VIEW @ 0.17%

30" N12 HDPE -158 LF @ 0.12%

24" N12 HDPE -157 LF @ 0.17%

24" N12 HDPE -158 LF @ 0.17%

36" Concrete Pipe -64 LF THIS VIEW @ 0.12%

30" N12 HDPE -48 LF @ 0.16%

30" N12 HDPE -49 LF @ 0.18%

30" N12 HDPE -56 LF @ 0.14%

B-2
4'x4' Grate Inlet
X: 3035088.3305
Y: 13965198.7925
TOP= 193.90
30" IN (N)= 190.27
30" OUT (S)= 190.17

A-2
4'x4' Grate Inlet
X: 3035229.1686
Y: 13965167.3061
TOP= 194.37
24" IN (N)= 190.76
24" OUT (S)= 190.66

C-2
3'x3' Grate Inlet
X: 3035354.6185
Y: 13965139.2986
TOP= 194.27
24" IN (N)= 190.75
24" OUT (S)= 190.65

B-1
4'x4' Grate Inlet
X: 3035064.6336
Y: 13965038.9227
TOP= 195.60
30" IN (N)= 189.98
30" OUT (S)= 189.88

A-1
4'x4' Grate Inlet
X: 3035192.5167
Y: 13965010.8746
TOP= 195.59
24" IN (N)= 190.39
30" OUT (S)= 189.89

C-1
4'x4' Grate Inlet
X: 3035328.6925
Y: 13964979.9567
TOP= 195.32
24" IN (N)= 190.38
30" OUT (SW)= 189.88

PROPOSED PILOT CHANNEL @ 0.02%

PROPOSED PILOT CHANNEL @ 0.02%

PROPOSED PILOT CHANNEL @ 0.02%

PROPOSED PILOT CHANNEL @ 0.02%

HIGH POINT

+1.81% -1.34% -0.71% -0.60% -0.92% -1.33% -0.60% -0.60% -0.96% -0.96% -0.80%

REVISIONS					
	DATE	1	2	3	4
	5/19/26	Addendum 2	----	----	----
	----	----	----	----	----
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DRAWN BY:	APP'D BY:	ISSUED:
TW	MH	4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110800

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GLS
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LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 200 - LUFKIN, TEXAS 75901 - (936) 637-4900
1770 CROSS BEAM DR. STE. 100 - CHARLOTTE, NC 28217 - (704) 527-1888
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE. - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

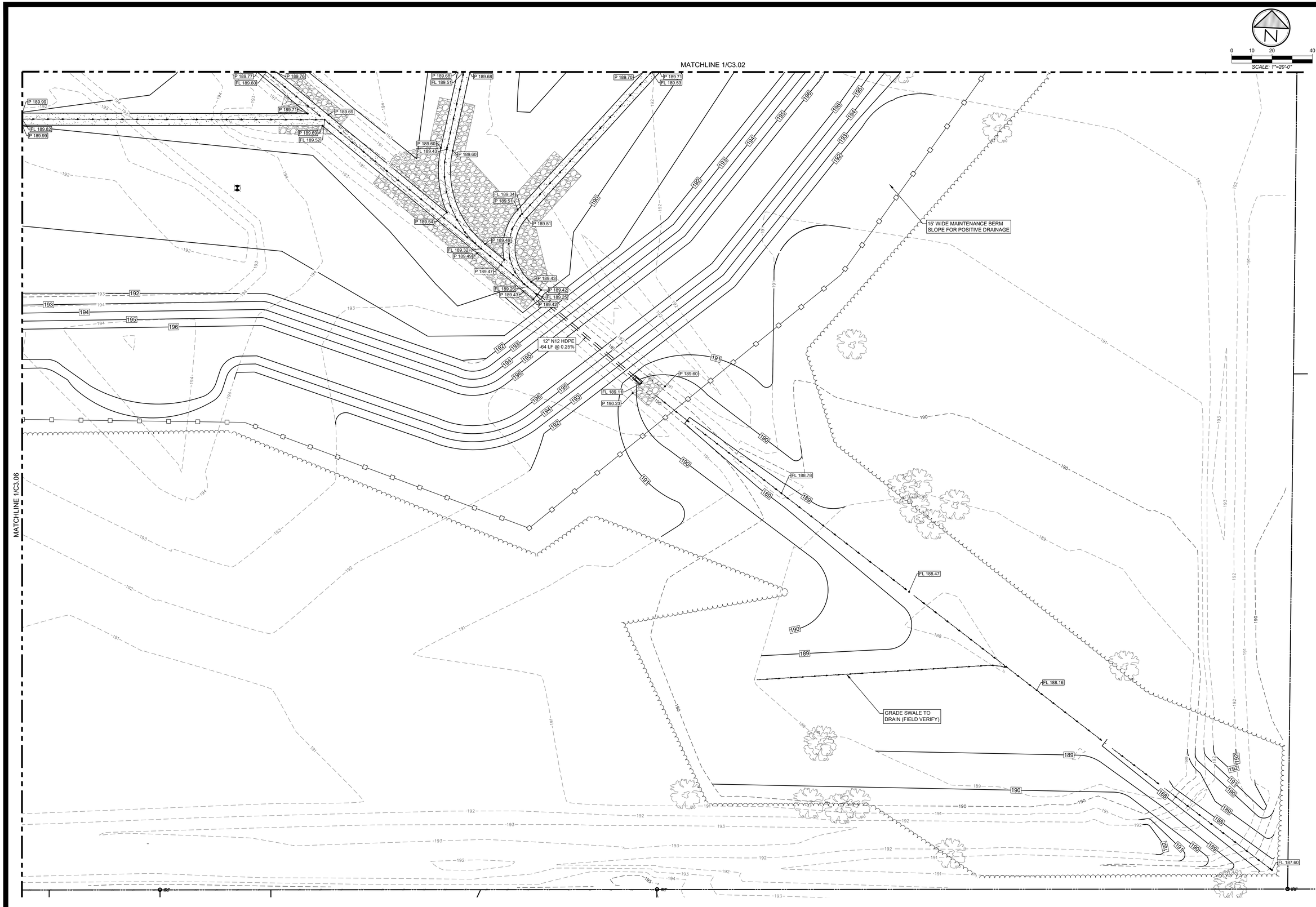
Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Grading & Utility Plan

JOB NUMBER 364003

SHEET NO. C3.02

Grading and Utility Plan

1"=20'-0" | 1



Grading and Utility Plan

1"=20'-0"

1

REVISIONS	DATE	
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 202 - LUFKIN, TEXAS 75901 - (936) 637-4900
2777 CROCKETT RD. STE. 201 - AUSTIN, TEXAS 78746 - (512) 327-1180
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 891-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

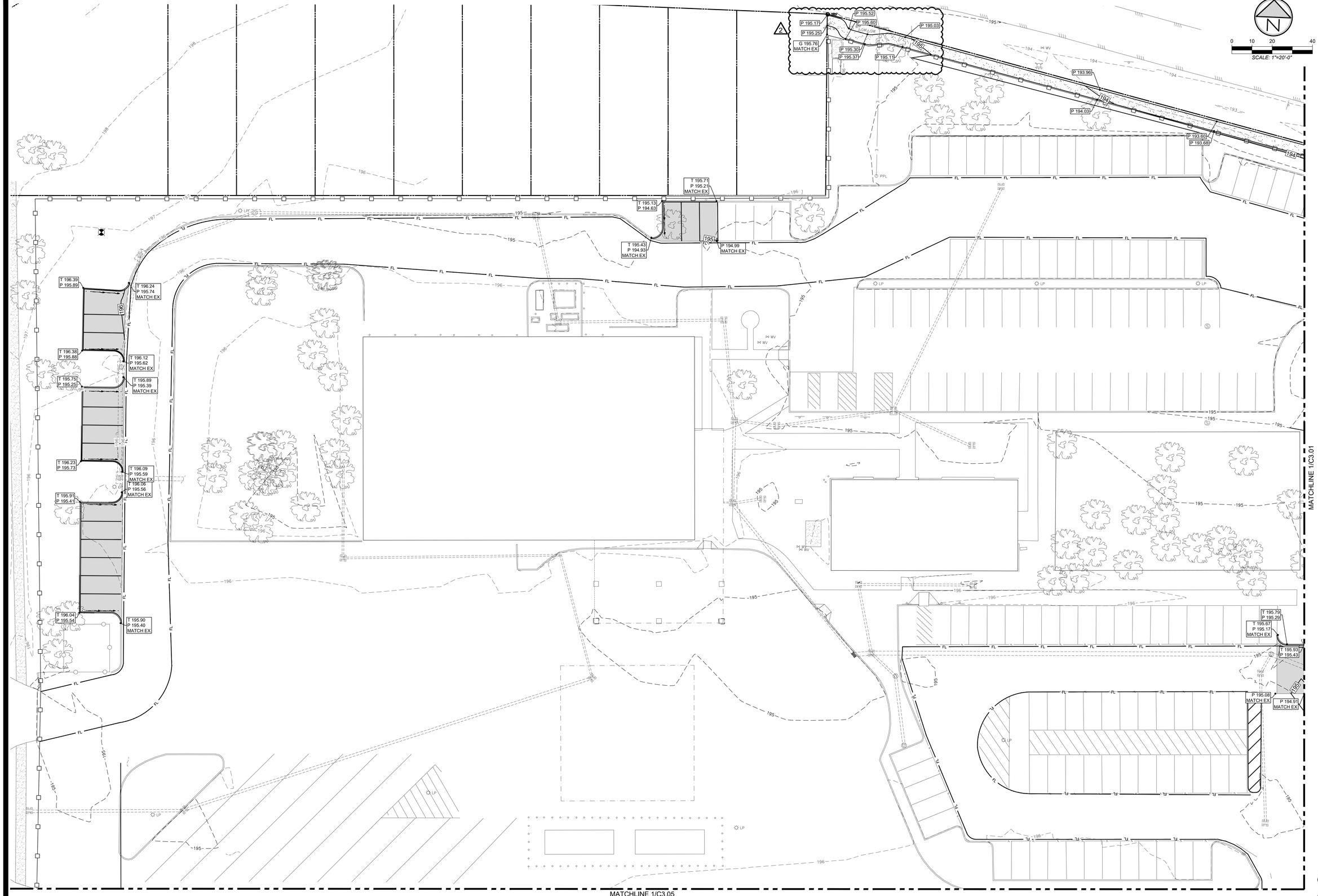
Michael Holmes

5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Grading & Utility Plan

JOB NUMBER 364003

SHEET NO. C3.03



Grading and Utility Plan

1"=20'-0" | 1

REVISIONS	DATE	
Addendum 2	5/19/26	1
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T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10113900

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LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 200 - LUFKIN, TEXAS 75901 - (936) 637-4900
1770 TEAGUE DR. STE. 101 - SHERMAN, TEXAS 75090 - (903) 891-3805
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE. - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
Michael Holmes
5/18//26

Transportation Facility Improvements

Tomball ISD
Tomball, Texas

Grading & Utility Plan

JOB NUMBER 364003

SHEET NO. C3.04

MATCHLINE 1/C3.04

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

T 196.05
P 195.55

T 196.19
P 195.69
MATCH EX

P 196.17
MATCH EX

P 196.82
MATCH EX

T 197.33
P 196.83

T 197.19
P 196.69
MATCH EX

T 196.42
P 195.92
MATCH EX

P 196.40
MATCH EX

T 196.32
P 195.82

T 196.73
P 196.23

P 196.52
MATCH EX

P 196.56
MATCH EX

T 196.72
P 196.22

T 196.90
P 196.40

P 196.54
MATCH EX

P 196.56
MATCH EX

P 196.46
MATCH EX

T 197.01
P 196.51
MATCH EX

T 197.15
P 196.65
MATCH EX

T 197.05
P 196.55

T 197.49
P 196.99
MATCH EX

T 197.23
P 196.73

P 196.85
MATCH EX

P 196.89
MATCH EX

T 197.79
P 197.29

T 197.22
P 196.72

T 197.68
P 197.18
MATCH EX

P 196.60
MATCH EX

T 197.59
P 197.09
MATCH EX

P 197.10
MATCH EX

36" Concrete Pipe
-11 LF THIS VIEW @ 0.12%

P 196.56
MATCH EX

P 196.63
MATCH EX

P 197.09
MATCH EX

T 197.17
P 196.67

G 196.79

T 197.21
P 196.71

15' WIDE MAINTENANCE BERM
SLOPE FOR POSITIVE DRAINAGE

G 197.02

T 197.47
P 196.97
MATCH EX

G 196.85

FIELD VERIFY FLOWLINE
ELEVATION PRIOR TO
CONSTRUCTION.

G 192.30

G 192.30

FL 190.25

P 190.39

FL 190.22

P 190.39

FL 190.11

P 190.28

P 190.28

FL 190.06

P 190.23

P 190.22

MATCHLINE 1/C3.02

MATCHLINE 1/C3.06

Grading and Utility Plan

1"=20'-0"

1

REVISIONS	DATE	
Addendum 2	5/19/26	1
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T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110900

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LANDSCAPE - SURVEYING
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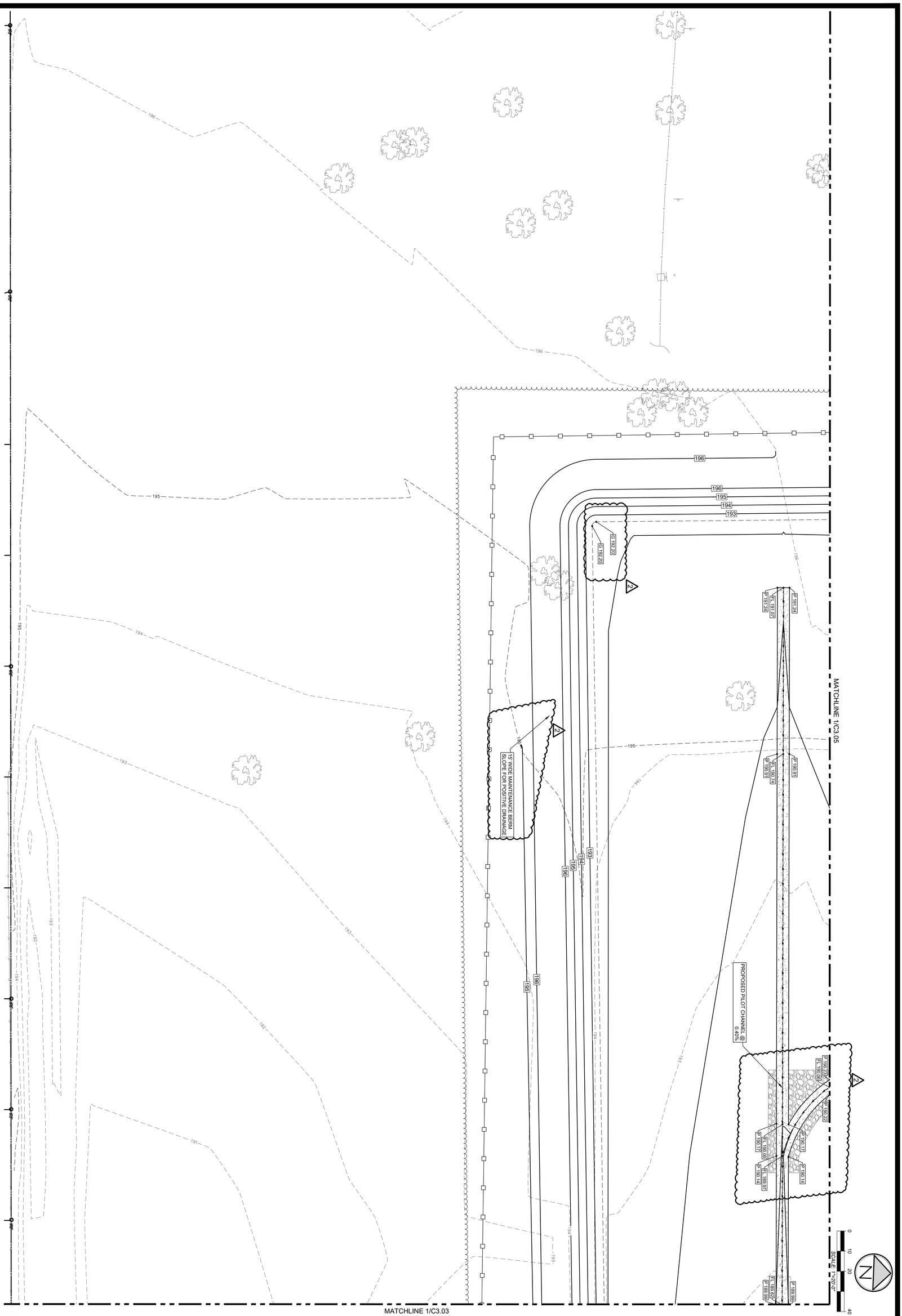
1201 E. 5TH STREET - AUSTIN, TEXAS 78702 - (512) 327-1180
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
Michael Holmes
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Grading & Utility Plan

JOB NUMBER
364003

SHEET NO.
C3.05



Grading and Utility Plan

1"=20'-0"

1

C3.06

SHEET NO.

JOB NUMBER 364003

Transportation Facility Improvements

Tomball ISD

Tomball, Texas

Grading & Utility Plan

5/18/26

MICHAEL S. HOLMES 142726 LICENSED PROFESSIONAL ENGINEER

G.L.S
ARCHITECTURE - ENGINEERING - INTERIORS
LANDSCAPE - SURVEYING
1609 S. CHESTNUT ST. STE. 202 · LUFKIN, TEXAS 75901 · (936) 637-4900
4577 CROSS PARK DR. STE. 100 · BRYAN, TEXAS 77802 · (979) 776-9700
455 RICE ROAD STE. 107 · TYLER, TEXAS 75703 · (903) 581-3809
613 AUSTIN AVE · WACO, TEXAS 76701 · (254) 218-1544

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DRAWN BY	APPVD BY	DATE
TW	MH	4/2/2026

#	DATE	REVISIONS
1	5/19/26	Addendum 2
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3	----	----
4	----	----

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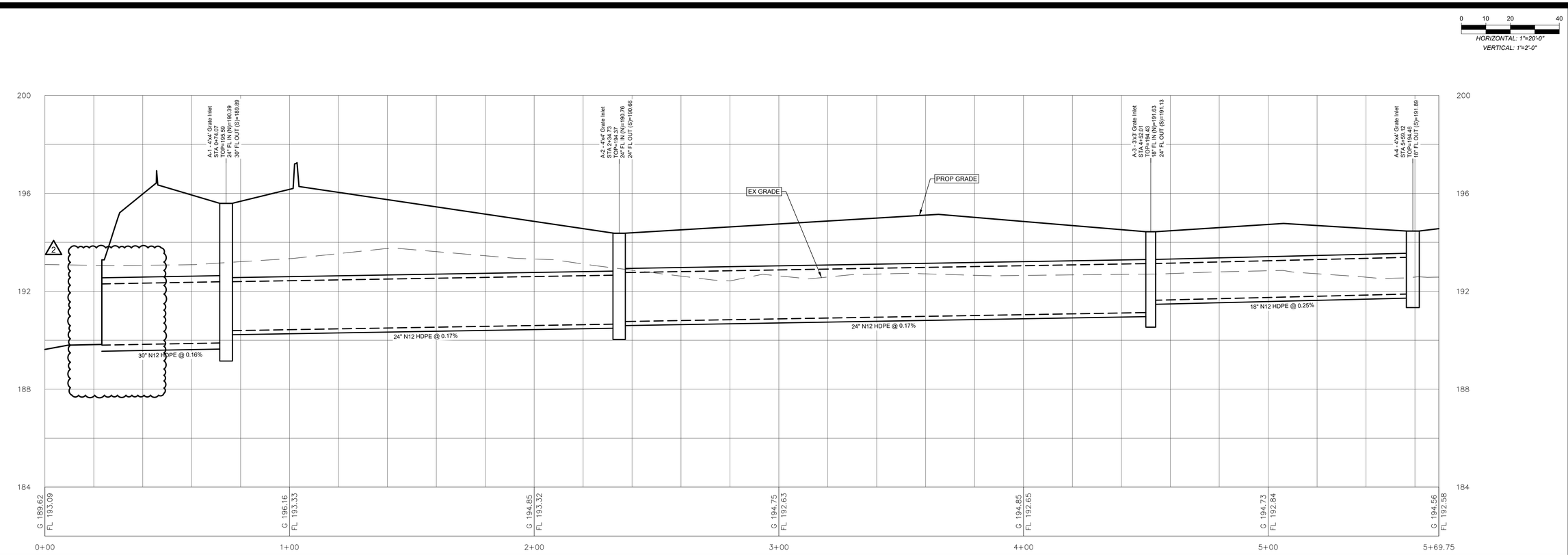
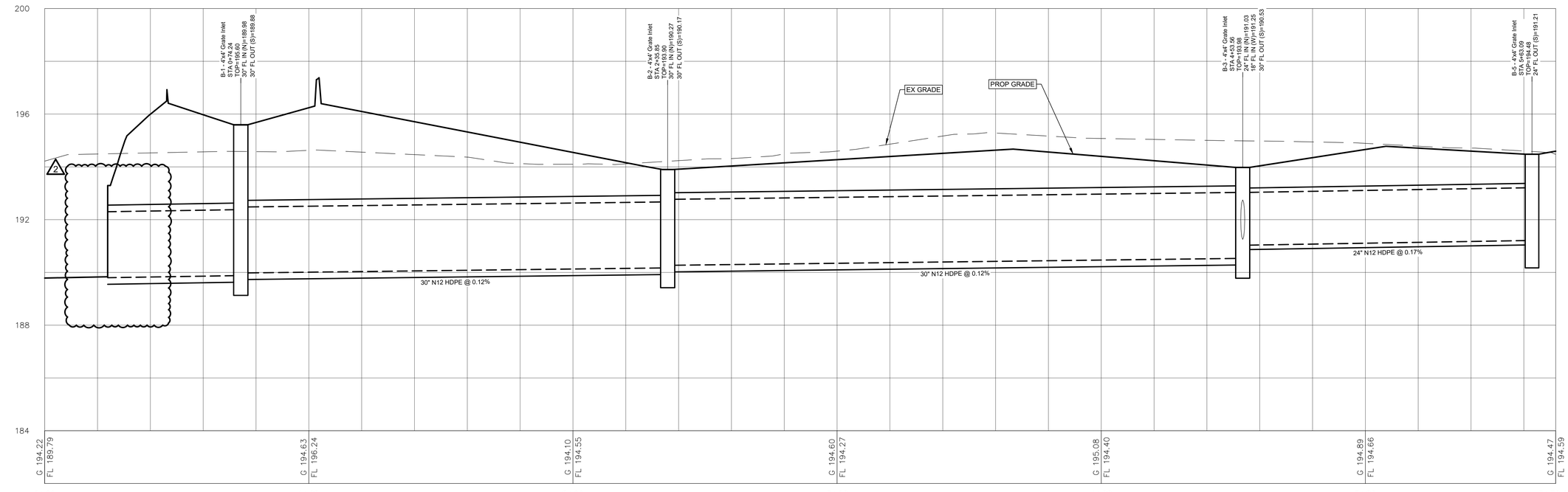


Storm Sewer Profile A

Horizontal: 1"=20'-0"; Vertical: 1"=2'-0" | 1



Storm Sewer Profile B

Horizontal: 1"=20'-0"; Vertical: 1"=2'-0" | 2

	DATE	REVISIONS
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10115900

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LANDSCAPE - SURVEYING
1909 S. CHESTNUT ST. STE. 202 - LUFKIN, TEXAS 75901 - (936) 637-4900
4477 CESSNA DR. STE. 150 - BRYAN, TEXAS 77802 - (979) 703-0800
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 891-3805
619 AUSTIN AVE. - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

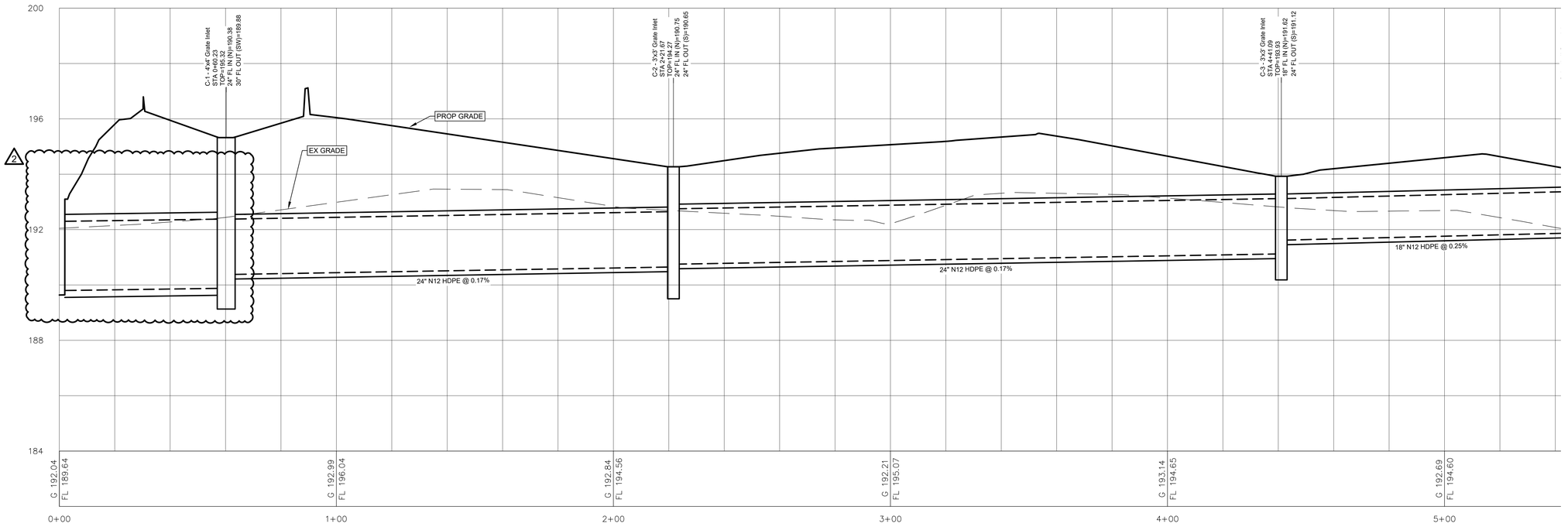
Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Storm Sewer Profile

JOB NUMBER 364003

SHEET NO.

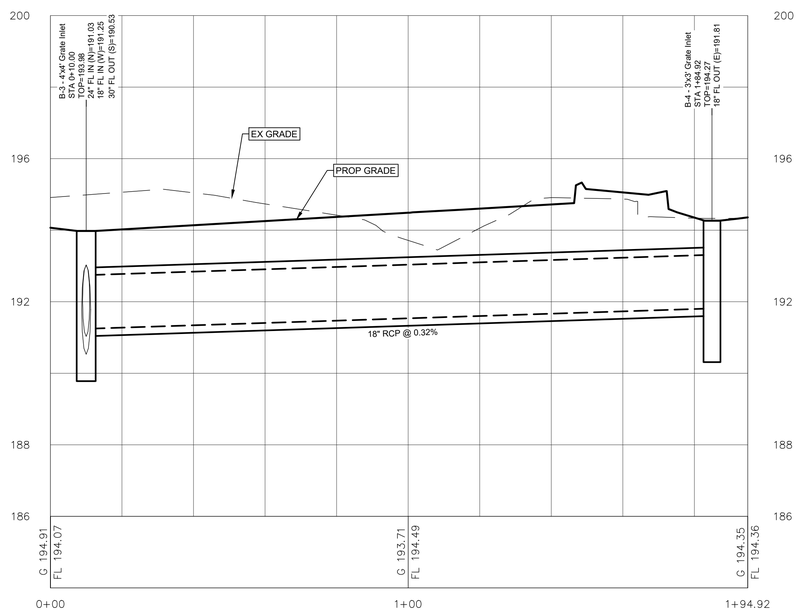
C4.00

HORIZONTAL: 1"=20'-0"
VERTICAL: 1"=2'-0"



Storm Sewer Profile C

Horizontal: 1'=20'-0"; Vertical: 1"=2'-0" | 1



Storm Sewer Profile B4 Branch

Horizontal: 1'=20'-0"; Vertical: 1"=2'-0" | 2

	DATE	REVISIONS
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

D:\364\364003\364003_CS.00 - Storm Sewer Profiles.dwg 3/26/2026 11:33 AM

DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

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T.B.A.E. FIRM NO. BR 351
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LANDSCAPE - SURVEYING
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4477 CHEEK-SPARGER RD. STE. 100 - BAYTOWN, TEXAS 77521 - (281) 573-0900
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 891-3805
619 AUSTIN AVE. - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Storm Sewer Profiles

JOB NUMBER 364003

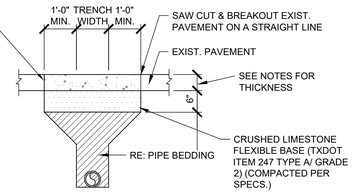
SHEET NO.
C4.01

NOTES:

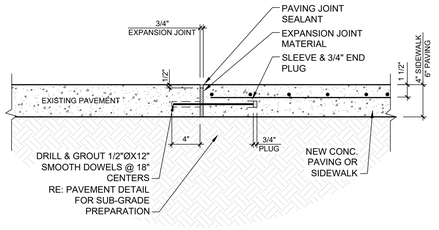
1) CONCRETE:
5" THICK CONC. REINFORCED W/ 6X6-6 GA. WWF CTR. IN SLAB PROVIDE 18" LONG #5 SMOOTH DOWELS @ 12" SPACING BEWTEEN EXIST. AND PROP. PAVEMENT INSTALL BY DRILLING 6" INTO CENTER OF PAVEMENT.

2) ASPHALT:
1 1/2" HOT MIX ASPHALT SURFACE (TXDOT TYPE D)

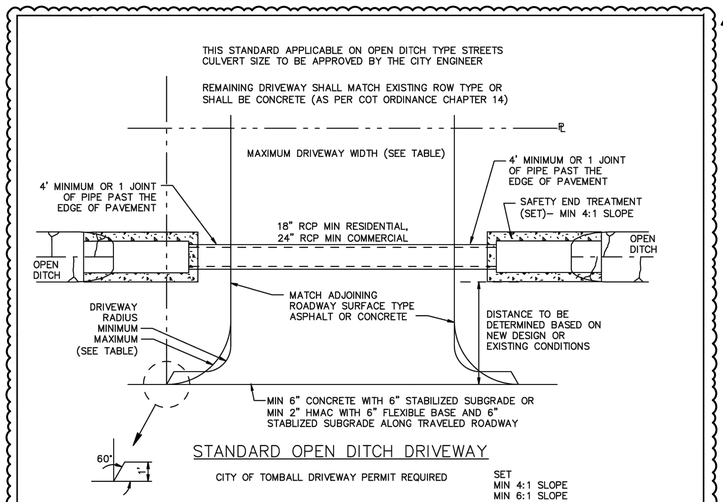
3) GRAVEL/DIRT:
4" OWNER APPROVED MIXTURE OF GRAVEL



Concrete Pavement Repair N.T.S. 1



Concrete To Concrete Tie-In N.T.S. 5



STANDARD OPEN DITCH DRIVEWAY

CITY OF TOMBALL DRIVEWAY PERMIT REQUIRED

SET
MIN 4:1 SLOPE
MIN 6:1 SLOPE
REQUIRED ON ALL CROSSINGS EXCEPT 18" RCP FOR RESIDENTIAL PROPERTY

IF NO REINFORCING STEEL EXISTS USE HORIZONTAL DOWELS @ 24" O.C., UNLESS OTHERWISE SPECIFIED. HORIZONTAL DOWELS SHALL BE #4 BARS, 24" LONG, DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SIZE WITH "PO ROC" OR EQUAL.

"A" DRIVEWAY WIDTH	RESIDENTIAL	ALL OTHERS
ONE WAY TWO WAY – CITY TWO WAY – ETJ	12' MIN, 20' MAX 12' MIN 24' MAX 12' MIN, 24' MAX	15' MIN 20' MAX 24' MIN 35' MAX 24' MIN, 35' MAX
"R" DRIVEWAY RADIUS		
CITY ETJ	5' MIN – 15' MAX 5' MIN – 15' MAX	10' MIN – 15' MAX 10' MIN – 15' MAX

RADII AND WIDTHS FOR DRIVEWAYS

NOT TO SCALE

CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

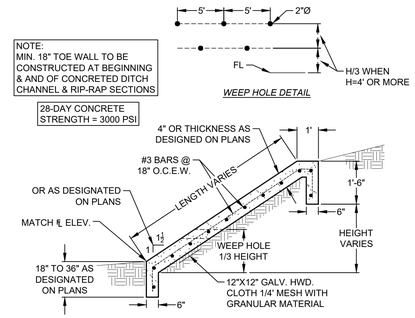
DRIVEWAYS ALONG OPEN DITCH TYPE STREETS CONSTRUCTION DETAILS

APPROVED BY COT:

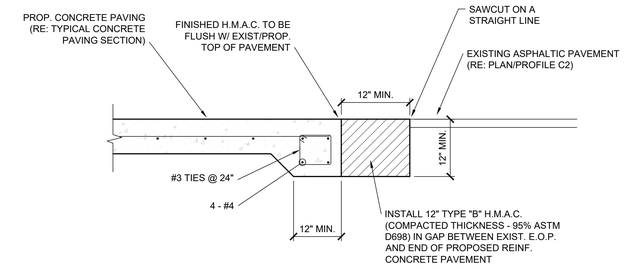
ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE JULY 1, 2010

SHEET 001 OF 001 | DWG NO: COT DW–06

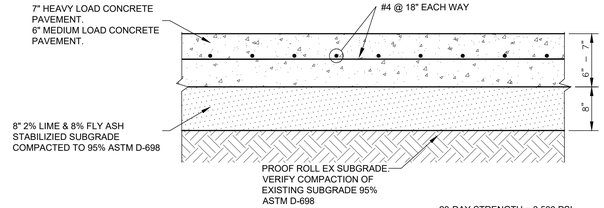
Driveway Along Open Ditch N.T.S. 7



Concrete Slope Paving N.T.S. 2

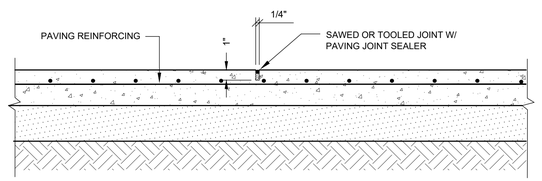


Concrete To Asphalt Tie-In N.T.S. 6



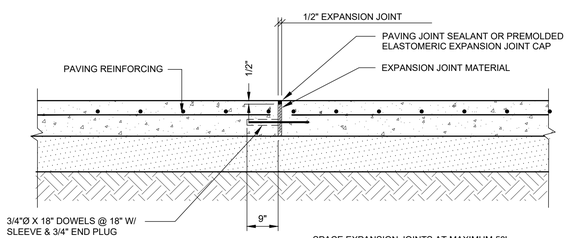
CONCRETE PAVING

28-DAY STRENGTH = 3,500 PSI



CONTROL JOINT

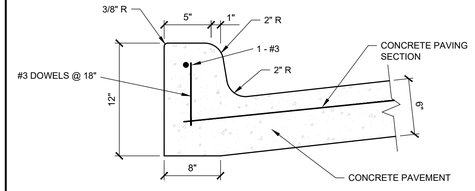
SPACE CONTROL JOINTS @ 10' MAXIMUM SPACING. SAWED JOINTS TO BE INSTALLED WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT



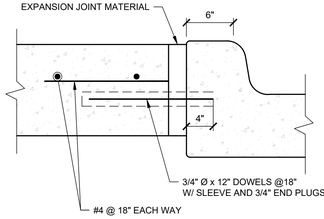
SPACE EXPANSION JOINTS AT MAXIMUM 50' SPACING, SUBMIT LAYOUT FOR APPROVAL

EXPANSION JOINT

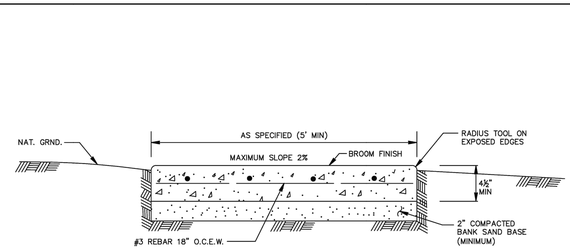
Concrete Paving N.T.S. 8



Monolithic Curb N.T.S. 3



Concrete Island N.T.S. 4



CONCRETE SIDEWALK

NOTE:

1) BANK SAND IS DEFINED AS A WELL–GRADED SAND, FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATTER, MEETING THE UNIFIED SOILS CLASSIFICATION SYSTEM GROUP SYMBOL SW CRITERIA W/ A PLASTICITY INDEX OF ≤ 10, AND NO MORE THAN 12% OF MATERIAL CAN PASS THE No. 200 SIEVE.

2) DOWEL IN AND TIE TO ANY CONCRETE STRUCTURE ADJACENT TO SIDEWALK (DRIVEWAY, INLET BOX, CURB, JUNCTION BOX, ETC.) WITH #3x12" BARS @ 18" O.C. INCLUDE EXPANSION JOINT AT CONNECTION WITH BACK OF CURB.

NOT TO SCALE

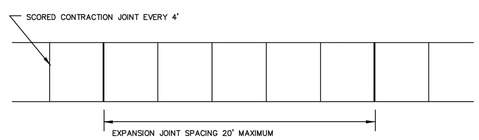
CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

CONCRETE SIDEWALK CONSTRUCTION DETAILS

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE NOVEMBER 19, 2018

SHEET 001 OF 001 | DWG NO: COT SW–03



SIDEWALK JOINT DETAILS

NOT TO SCALE

CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

SIDEWALK EXPANSION JOINT CONSTRUCTION DETAILS

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE JULY 1, 2010

SHEET 001 OF 001 | DWG NO: COT SW–04

Concrete Sidewalk N.T.S. 9

REVISIONS					
DATE	5/19/26	----	----	----	----
	1	2	3	4	
	Addendum 2	----	----	----	----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 101120600

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455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 581-3805
619 AUSTIN AVE. WACO, TEXAS 76701 (254) 218-1544

STATE OF TEXAS
MICHAEL S. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER

Michael Holmes

5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Civil Paving Details

JOB NUMBER 364003

SHEET NO.

C5.00

PRIVATE DRAINAGE AND DETENTION POND OPERATION AND MAINTENANCE REQUIREMENTS
CITY OF TOMBALL (MINIMUM REQUIREMENTS)

AS-BUILT REQUIREMENTS

1. PRIOR TO FACILITY OCCUPANCY, THE ENGINEER OF RECORD (EOR) WILL PROVIDE AS-BUILT DRAWINGS CERTIFYING THE POND SYSTEM DESIGN AND THE VOLUME PROVIDED IS IN ACCORDANCE TO THE APPROVED PLANS. THE OWNER OR THEIR DESIGNATED REPRESENTATIVE WILL BE RESPONSIBLE FOR PROVIDING SIGNAGE IDENTIFYING THE RESPONSIBLE CONTACT AND PHONE NUMBER FOR CONTINUED OPERATION AND MAINTENANCE OF THE POND IN ACCORDANCE TO THE APPROVED PLANS.

SITE INSPECTIONS AND REPORTING REQUIREMENTS

1. THE OWNER OR THEIR DESIGNATED REPRESENTATIVE WILL BE RESPONSIBLE FOR INSPECTING THE SITE TO ENSURE THAT ALL SYSTEMS ARE MAINTAINED AND ARE IN GOOD WORKING CONDITION. THE CITY WILL BE NOTIFIED AND KEPT INFORMED IN WRITING OF THE SITE REPRESENTATIVE, INCLUDING PHONE NUMBER AND ADDRESS. A STANDARD REPORTING FORM WILL BE DEVELOPED BY THE OWNER FOR CITY REVIEW AND APPROVAL. INSPECTION REPORTS WILL BE PROVIDED TO THE CITY ON A MINIMUM OF A QUARTERLY BASIS.

ROUTINE INSPECTIONS

1. ROUTINE INSPECTIONS WILL DICTATE MAINTENANCE REQUIREMENTS FOR GENERAL ITEMS AT THE SITE INCLUDING (IF APPLICABLE TO SITE), LOCKS, FENCING, SIGNAGE, AND ROAD/ACCESS CONDITIONS.
2. DEFECTIVE OR MISSING LOCKS WILL BE REPLACED AND WILL BE KEYED TO MATCH ALL OTHER SITE LOCKS.
3. MISSING OR DAMAGED CHAIN LINK FENCE WILL BE REPAIRED OR REPLACED AS NEEDED. FENCING REPAIR OR REPLACEMENT WILL BE IN ACCORDANCE WITH SPECIFICATIONS FROM THE ORIGINAL DESIGN PLANS.
4. DAMAGED OR MISSING SIGNS WILL BE REPLACED WITH A SIMILAR TYPE SIGNS.
5. ROADWAY SURFACES WHICH ARE DAMAGED WILL BE REPAIRED IN ACCORDANCE TO THE ORIGINAL PLAN SPECIFICATIONS.
6. SURFACE WATER DITCHES AND DETENTION PONDS WILL BE OBSERVED FOR EROSION OR SEDIMENT BUILD-UP, WHICH COULD RESULT IN OVERTOPPING AND SEVERE EROSION DOWN-SLOPE.

SPECIAL INSPECTIONS AFTER MAJOR HURRICANE OR TORNADO EVENTS

1. SPECIAL UNSCHEDULED INSPECTIONS WILL BE CONDUCTED AS NECESSARY AT THE SITE AFTER MAJOR HURRICANE OR TORNADO EVENTS. EVERY ATTEMPT WILL BE MADE TO HAVE THESE INSPECTIONS CONDUCTED WITHIN SEVERAL DAYS AFTER THE STORM EVENT TO ENSURE FENCING IS STILL IN PLACE AND MAJOR DAMAGE TO THE FACILITIES HAS NOT OCCURRED. ANY REPAIR WILL BE CONDUCTED AS SOON AS POSSIBLE.

MONTHLY MAINTENANCE

1. THE MAJORITY OF THE SITE WAS PLANTED WITH A TYPE OF (DEFINE NATIVE GRASS SEEDING). TYPICALLY, THESE AREAS WILL REQUIRE MOWING TWICE A MONTH FROM APRIL THROUGH OCTOBER, AND MONTHLY MOWING FROM NOVEMBER THROUGH MARCH.

ANNUAL MAINTENANCE

1. ANNUAL MAINTENANCE OF THE SITE MAY INCLUDE FERTILIZING AND RESEEDING THE SITE, AS NECESSARY.

SURFACE MAINTENANCE

1. INSPECTIONS PERFORMED, AS PART OF THE SCHEDULED ROUTINE INSPECTIONS AT THE SITE WILL DICTATE MAINTENANCE REQUIREMENTS FOR THE SITE. THE ITEMS TO BE ROUTINELY INSPECTED INCLUDE SURFACE WATER RUNOFF CONTROL, PONDED WATER, PRESENCE OF EROSION OR GULLYING, AND WHETHER OR NOT THE TOPSOIL AND VEGETATION ARE INTACT.
2. THE SITE WILL BE INSPECTED TO DETERMINE WHETHER IT DRAINS WITHOUT PONDING AND EROSION.
3. TOPSOIL WILL BE INSPECTED FOR EROSION, SETTLEMENT, AND CRACKING. TOPSOIL WILL BE ADDED AS NECESSARY TO MAINTAIN DRAINAGE CHARACTERISTICS IN ACCORDANCE WITH THE ORIGINAL SPECIFICATIONS. AREAS AFFECTED BY THE ADDITION OF TOPSOIL WILL BE SEEDED AND FERTILIZED IN ACCORDANCE WITH THE ORIGINAL SEEDING SPECIFICATIONS.
4. TOPOGRAPHIC SURVEYING OF THE DETENTION POND AND STORM DRAINAGE SYSTEM MAY NEED TO BE PERIODICALLY PERFORMED TO VERIFY FUNCTIONALITY OF THE SYSTEM.

SURFACE WATER MANAGEMENT SYSTEM MAINTENANCE

1. INSPECTIONS PERFORMED, AS PART OF THE SCHEDULED ROUTINE INSPECTIONS AT THE SITE WILL DICTATE MAINTENANCE REQUIREMENTS FOR THE SURFACE WATER MANAGEMENT SYSTEM AT THE SITE. THE ITEMS TO BE ROUTINELY INSPECTED INCLUDE INLETS, CULVERTS, DRAINAGE PIPES, SEDIMENT CONTROLS, EROSION OF DRAINAGE DITCHES OR BERMS, AND THE CONDITION OF THE DETENTION PONDS.
2. INLETS CULVERTS, AND PIPES WILL BE VISUALLY INSPECTED TO ENSURE THAT NO OBSTRUCTIONS ARE HINDERING THE PERFORMANCE OF THE SURFACE WATER DRAINAGE SYSTEM
3. ANY SIGNIFICANT OBSTRUCTIONS FOUND WILL BE REMOVED.
4. INLETS ALSO WILL BE VISUALLY INSPECTED TO ENSURE THAT GRATES ARE IN PLACE.
5. ANY MISSING OR DAMAGED GRATES WILL BE REPLACED.
6. INLETS, CULVERTS, AND PIPES WILL BE VISUALLY INSPECTED FOR LEAKS OR STRUCTURAL DAMAGE.
7. ANY DAMAGED ITEMS WILL BE REPAIRED OR REPLACED IN ACCORDANCE TO WITH THE ORIGINAL SPECIFICATIONS.
8. AREAS ARE TO BE VISUALLY INSPECTED FOR SEDIMENT BUILD-UP INCLUDES DRAINAGE PIPES, DRAINAGE DITCHES AND THE AREA WITHIN THE POND SITE.
9. IF SEDIMENT BUILDUP OCCURS IN THE SURFACE WATER PIPING SYSTEM, THE SEDIMENT WILL BE CLEANED FROM THE PIPES TO MAINTAIN THEIR ORIGINAL HYDRAULIC CAPACITY.
10. IF SEDIMENT BUILDUP IS OBSTRUCTING THE NORMAL FLOW PATTERN IN THE DRAINAGE DITCHES, THE SEDIMENTS WILL BE REMOVED.
11. SURFACE WATER DITCHES AND DETENTION POND SIDE SLOPES WILL BE VISUALLY INSPECTED FOR EROSION AND GULLYING.
12. IF EROSION OCCURS IN SURFACE WATER DITCHES, TOPSOIL WILL BE ADDED AS NECESSARY TO MAINTAIN DRAINAGE CHARACTERISTICS IN ACCORDANCE TO THE ORIGINAL PLANS.
13. IF EROSION OCCURS ON THE DETENTION POND SIDE SLOPES, A FILL MATERIAL WILL BE ADDED AS NECESSARY TO MAINTAIN THE ORIGINAL GRADE OF THE SLOPE.
14. THE DETENTION POND WILL BE VISUALLY INSPECTED FOR THE PRESENCE OF LITTER. ANY LITTER WILL BE REMOVED ON A CONTINUAL BASIS.

EQUIPMENT REQUIREMENTS (WHEN APPLICABLE)

1. THE EQUIPMENT MAINTENANCE REQUIREMENTS WILL BE DETERMINED BASED UPON THE MANUFACTURERS RECOMMENDATIONS AND WILL BE INCLUDED ON THE DESIGN PLANS. AT A MINIMUM, LIFT STATIONS WILL REQUIRE DUPLEX SYSTEMS. THE ENGINEER OF RECORD WILL PROVIDE FOR CITY REVIEW EQUIPMENT OPERATION AND MAINTENANCE REQUIREMENTS.

CAD FILE PATH:

CITY OF TOMBALL ENGINEERING & PLANNING DEPARTMENT	
POND MAINTENANCE REQUIREMENTS	
APPROVED BY COT: ENGINEERING & PLANNING DEPARTMENT EFFECTIVE SEPTEMBER 7, 2017	
SHEET 001 OF 001	DWG NO: COT STM-02

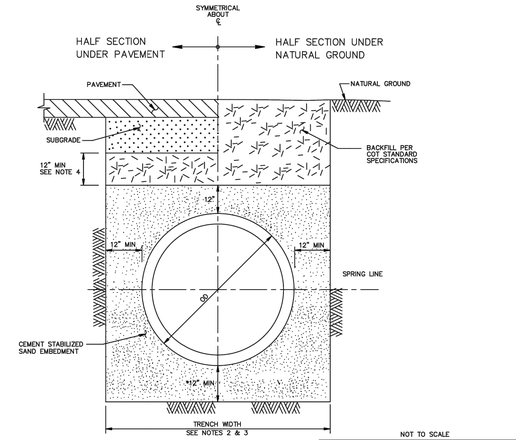
Pond Maintenance Requirements — N.T.S. — 1

NOTES:

1. WHERE WET SAND IS ENCOUNTERED, REINFORCED CONCRETE PIPE SEWERS SHALL BE CONSTRUCTED USING APPROVED SPECIAL DESIGN AS SHOWN ON DRAWINGS.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. SELECT BACKFILL FOR RIGID PAVEMENT; FLEXIBLE BASE MATERIAL FOR ASPHALT PAVEMENT.



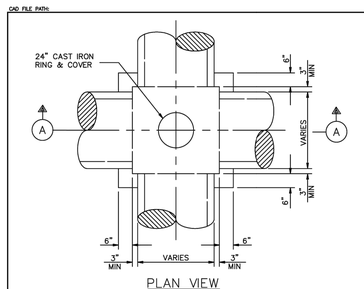
NOT TO SCALE

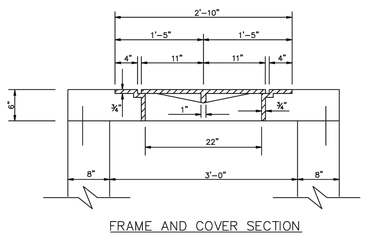
* MINIMUM DEPTH 7" FOR 36" OR SMALLER HDPE PIPES.

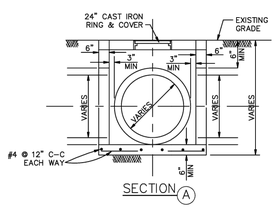
CAD FILE PATH:

CITY OF TOMBALL ENGINEERING & PLANNING DEPARTMENT	
STORM BEDDING & BACKFILL FOR DRY STABLE TRENCH	
APPROVED BY COT: ENGINEERING & PLANNING DEPARTMENT EFFECTIVE SEPTEMBER 7, 2017	
SHEET 001 OF 001	DWG NO: COT STM-04

Storm Bedding and Backfill — N.T.S. — 2







NOTES:

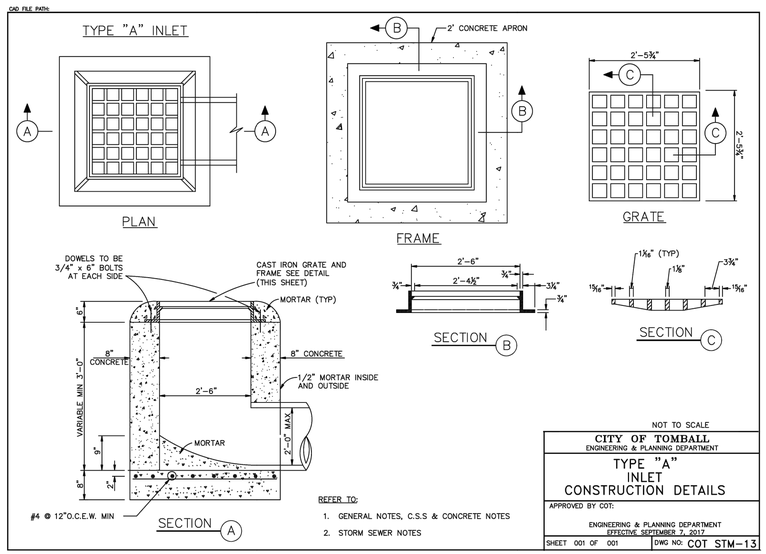
1. DETAIL TO BE USED WHERE STORM SEWER SIZE IS 24" DIAMETER OR LESS.
2. FOR PIPE SEWERS GREATER THAN 24", USE TYPE "C" MANHOLE

NOT TO SCALE

CITY OF TOMBALL ENGINEERING & PLANNING DEPARTMENT	
STORM SEWER JUNCTION BOX FOR MAX 24" DIAMETER PIPE	
APPROVED BY COT: ENGINEERING & PLANNING DEPARTMENT EFFECTIVE SEPTEMBER 7, 2017	
SHEET 001 OF 001	DWG NO: COT STM-10

Storm Sewer Junction Box — N.T.S. — 3

CAD FILE PATH:



REFER TO:

1. GENERAL NOTES, C.S.S & CONCRETE NOTES
2. STORM SEWER NOTES

NOT TO SCALE

CITY OF TOMBALL ENGINEERING & PLANNING DEPARTMENT	
TYPE "A" INLET CONSTRUCTION DETAILS	
APPROVED BY COT: ENGINEERING & PLANNING DEPARTMENT EFFECTIVE SEPTEMBER 7, 2017	
SHEET 001 OF 001	DWG NO: COT STM-13

Type "A" Inlet — N.T.S. — 4

REVISIONS					
DATE	5/19/26	----	----	----	----
	Addendum 2	----	----	----	----
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DRAWN BY: TW | APP'D BY: MH | ISSUED: 04/02/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10113800

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455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 891-3805
619 AUSTIN AVE. WACO, TEXAS 76701 (254) 215-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED PROFESSIONAL ENGINEER
Michael Holmes
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Civil Drainage Details

JOB NUMBER 364003

SHEET NO.
C5.02

Concrete Washout — N.T.S. — 1

NOTE:

POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.

VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.

NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.

EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.

ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.

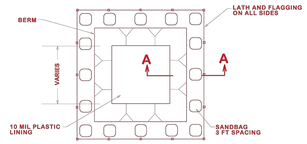
TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.

PLASTIC LINING MATERIAL WIL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.

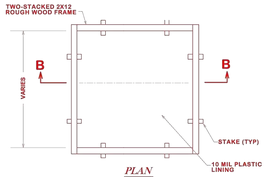
WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE, AND ANY REMAINING ASSOCIATED CO OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF. BELOW GRADE PITS SHALL BE FILLED WITH ACCEPTABLE SOIL AND SHALL BE COMPACTED TO ON-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.

CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT FACILITY TO WITHSTAND EXPECTED LOADINGS FROM TRUCK EQUIPMENT.

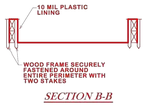


PLAN
TYPE - 'BELOW GRADE"

SECTION A-A



PLAN
TYPE - 'ABOVE GRADE"



SECTION B-B

Not Used — N.T.S. — 2

Not Used — N.T.S. — 3

Not Used — N.T.S. — 4

REVISIONS	DATE	
1	Addendum 2	5/19/26
2	----	----
3	----	----
4	----	----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 04/02/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110800

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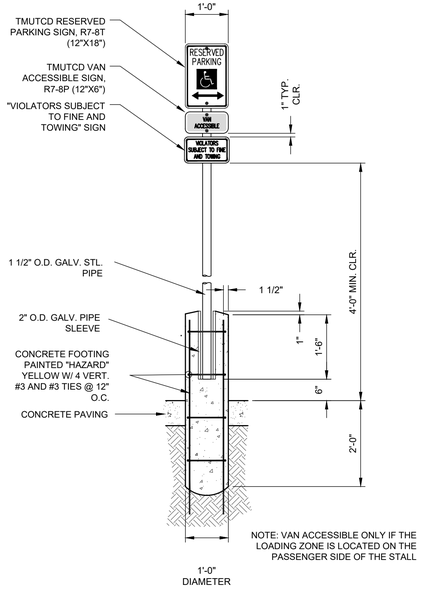
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 215-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
5/18//26

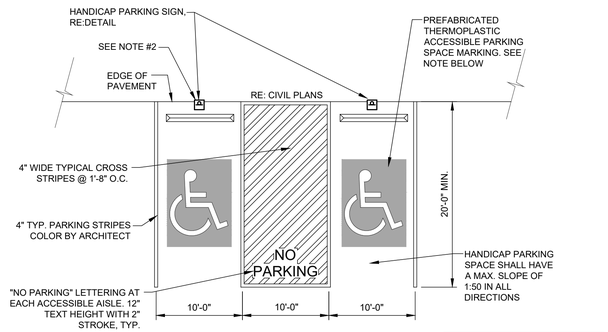
Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Civil SWPP Details

JOB NUMBER 364003

SHEET NO.
2
C5.03



ADA Parking Sign and Footing — N.T.S. — 1

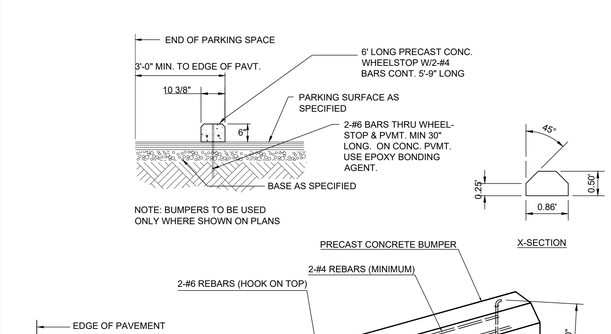


NOTE:

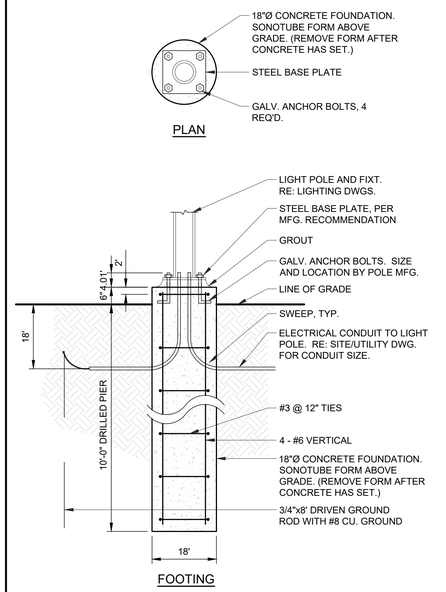
1. INTERNATIONAL SYMBOL FOR ACCESSIBILITY IN WHITE, WITH 3" STROKE WIDTH & BLUE BACKGROUND FIELD. SYMBOL SHALL BE 24"X26" MIN. & COMPLY WITH TMUTCD 3B-22.

2. WHEN THE HANDICAP SPACE IS LOCATED ON THE LEFT SIDE OF THE 8' MIN WIDE LOADING ZONE, THE SPACE SHALL BE CONSIDERED VAN ACCESSIBLE, UNLESS NOTED OTHERWISE. PROVIDE VAN ACCESSIBLE SIGNAGE AS REQUIRED.

ADA Parking Stall — N.T.S. — 2

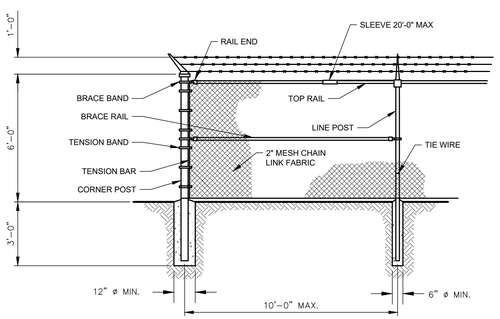


Concrete Wheelstop — N.T.S. — 3



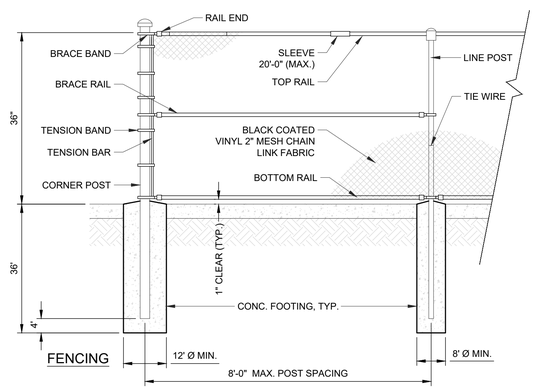
Light Pole Foundation — N.T.S. — 4

Not Used — N.T.S. — 5

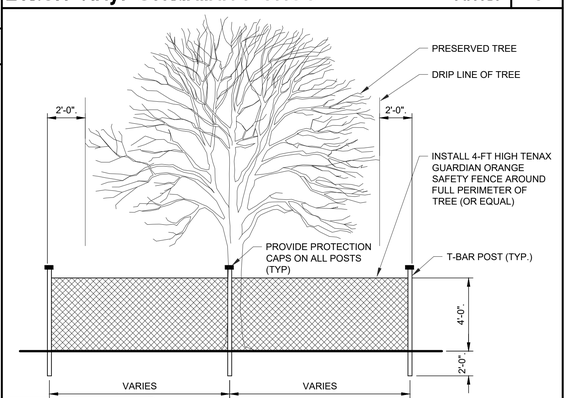


NOTE: 2-STRAND TWISTED NO. 12-1/2 ASW GAUGE GALVANIZED STEEL WIRE WITH EITHER 2 PT. OR 4 PT. BARBS OF NO. 14 ASW GAUGE GALVANIZED STEEL WIRE.

Barb Wire Fence (Alt. bid) — N.T.S. — 8

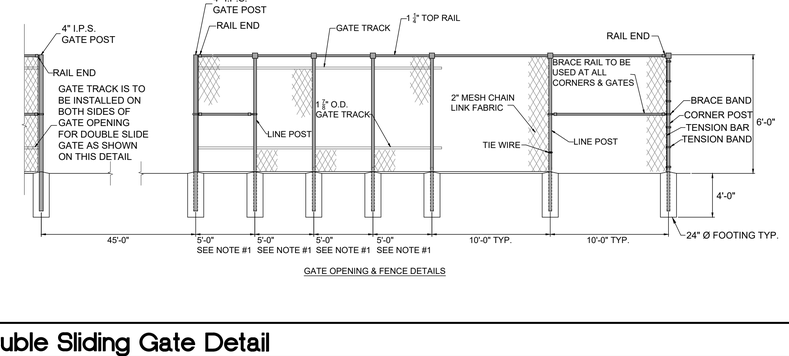


Black Vinyl Chainlink Fence — N.T.S. — 6



THERE WILL BE NO STORAGE OF MATERIALS, PARKING OF EQUIPMENT, RELAXING OR LOUNGING ON OR BENEATH THE TREE CANOPY FOR THE DURATION OF THE PROJECT **(NO EXEPTIONS).**

Tree Protection — N.T.S. — 9

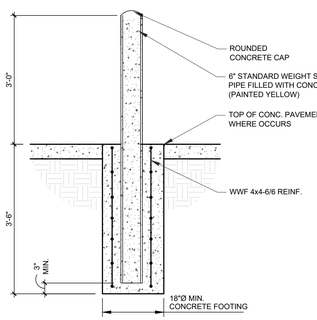


GATE OPENING & FENCE DETAILS

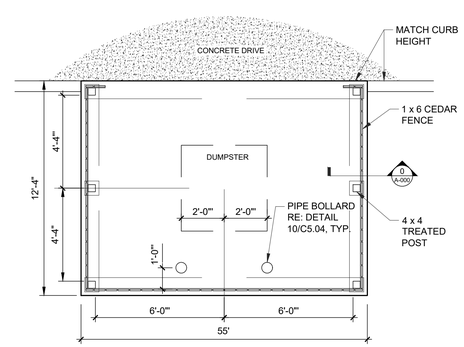
NOTES:

1. 5' SPACING OF LINE POSTS IS TO BE CONTINUED FOR THE ENTIRE LENGTH OF THE GATE. LINE POSTS ARE TO BE SPACED AT 10' SPACING AFTER THE GATE WHEN THE GATE IS IN THE OPEN POSITION.
2. GATES ARE TO BE INSTALLED ON THE INSIDE (PROPERTY SIDE) OF THE FENCE.
3. GATES SHALL BE SECURED BY A CHAIN AND LOCK AROUND BOTH SLIDING GATE PANELS IN THE CENTER OF THE GATE OPENING.
4. GATE PANELS ARE TO BE 22'-6" TOTAL. THERE SHALL BE PANELS THAT SLIDE CLOSED TO MEET IN THE MIDDLE OF THE GATE OPENING.

Double Sliding Gate Detail — N.T.S. — 7



Pipe Bollard — N.T.S. — 10



Wooden Fence for Dumspter Enclosure — N.T.S. — 11

REVISIONS	DATE	
1	5/19/26	Addendum 2
2	----	----
3	----	----
4	----	----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 4/2/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10115800

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1777 CORSICANA AVE. - BRYAN, TEXAS 77802 - (979) 268-1888
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 891-3805
613 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL ENGINEER
5/18//26

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
Civil Misc. Details

JOB NUMBER 364003

SHEET NO.
C5.04

SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
TWT = Thin-Walled Tubing (see SMD(TWT))
10GWG = 10 GWG Tubing (see SMD(SLIP-1) to (SLIP-3))
S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2)

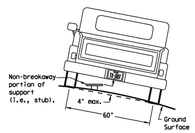
Anchor Type

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
WS = Wedge Anchor Steel - (see SMD(TWT))
WP = Wedge Anchor Plastic - (see SMD(TWT))
SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

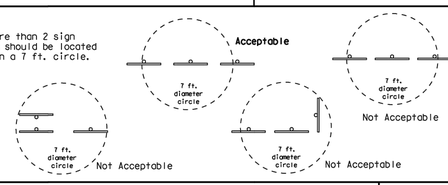
Sign Mounting Designation

P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
IF REQUIRED
(EXT or ZEXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
BW = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
MC = 1.12 #/ft Mfg Channel (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT

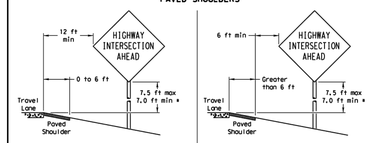


To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).



SIGN LOCATION

PAVED SHOULDERS



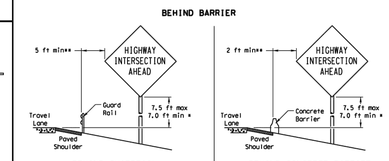
LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.

GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

BEHIND BARRIER

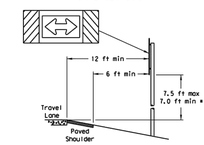


BEHIND GUARDRAIL

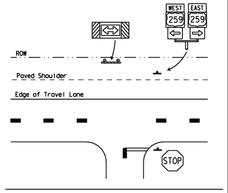
BEHIND CONCRETE BARRIER

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

T-INTERSECTION



When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.



* Signs shall be mounted using the following condition that results in the greatest sign elevations

(1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or

(2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by the Engineer.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is: http://www.txdot.gov/publications/traffic.htm

TYPICAL SIGN ATTACHMENT DETAIL

Single Signs

Back-to-Back Signs

Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES

When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

CURB & GUTTER OR RAISED ISLAND

RESTRICTED RIGHT-OF-WAY (When 6 ft min. is not possible.)

Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

Texas Department of Transportation
Traffic Operations Division

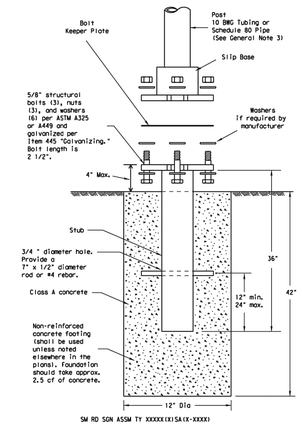
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

©TxDOT July 2002	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
9-08 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

264

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
2. Material used as post with this system shall conform to the following specifications:
   10 GWG Tubing (2.875" outside diameter)
   0.134" nominal wall thickness
   Seamless or electric-resistance welded steel tubing or pipe
   Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   Other steels may be used if they meet the following:
   55,000 PSI minimum yield strength
   70,000 PSI minimum tensile strength
   20% minimum elongation in 2"
   Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
   Outside diameter (uncoated) shall be within the range of 2.867" to 2.883"
   Galvanization per ASTM A123 or ASTM A653 G210, for prepainted steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.
   Schedule 80 Pipe (2.875" outside diameter)
   0.276" nominal wall thickness
   Steel tubing per ASTM A500 Gr C
   Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
   46,000 PSI minimum yield strength
   62,000 PSI minimum tensile strength
   21% minimum elongation in 2"
   Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
   Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
   Galvanization per ASTM A123
3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is:
   http://www.txdot.gov/publications/traffic.htm
4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation
1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support
1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the traveleay (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the traveleay. The cut shall be plumb and straight.
2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.

CONCRETE ANCHOR

SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-1)-08

©TxDOT July 2002	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
9-08 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

268

TxDOT Sign Mounting N.T.S. 1

TxDOT Sign Mounting N.T.S. 2

Not Used N.T.S. 3

Not Used N.T.S. 4

NO.	DATE	REVISIONS
1	5/19/26	Addendum 2
2	-----	-----
3	-----	-----
4	-----	-----

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DRAWN BY: TW | APP'D BY: MH | ISSUED: 04/02/2026

T.B.P.E.L.S FIRM NO. F-413
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T.B.P.E.L.S FIRM NO. 10113800

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455 RICE ROAD STE. 107 TYLER, TEXAS 75703 (903) 581-3805
615 AUSTRALIA WACO, TEXAS 76701 (254) 215-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED PROFESSIONAL ENGINEER

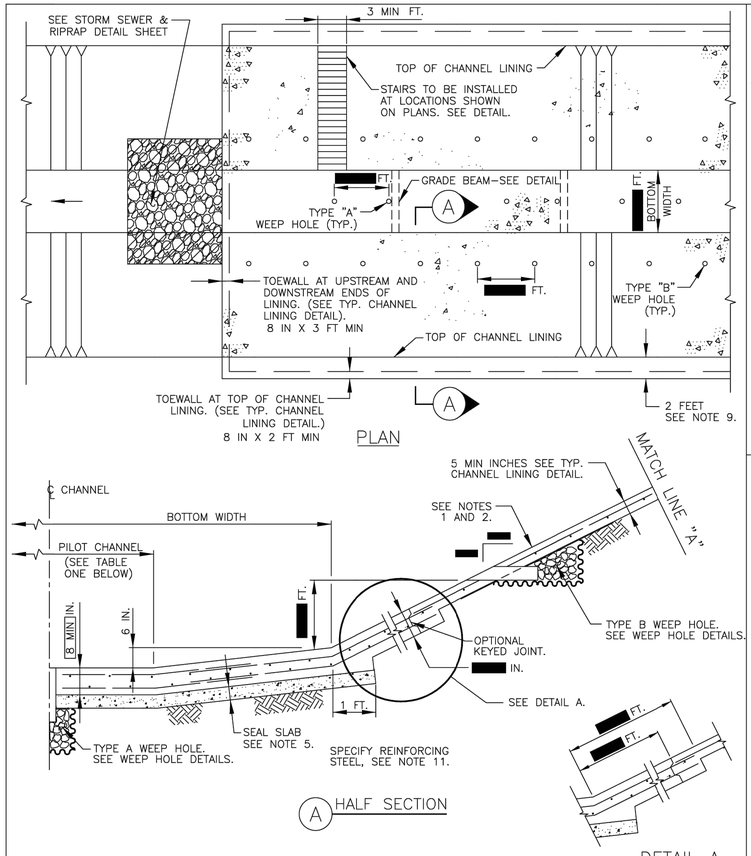
5/18/2026

Transportation Facility Improvements
Tomball ISD
Tomball, Texas
TxDOT Details

JOB NUMBER 364003

SHEET NO.

2 C5.05



WEEP HOLE NOTES:

1. MATERIALS:
   a. PIPE: 4 INCH DIA. SCH. 40 PVC
   b. DRAIN GRAVEL:

SIEVE SIZE	% FINER
1 IN	100
3/4 IN	70 – 100
3/8 IN	20 – 90
NO. 4	0 – 60
NO. 8	0

   c. HARDWARE CLOTH: MIN. OPEN 1/8 IN, MAX. OPEN 1/4 IN
   d. FILTER FABRIC: NON-WOVEN GEOTEXTILE

MIN. AOS	SIEVE NO.	100 MIN
MAX. AOS	SIEVE NO.	70 MAX
WEIGHT	OZ/SY	6 OZ. MIN

2. CUT WEEP HOLE PIPE FLUSH WITH CONCRETE SURFACE.
3. TYPE "A" AND "C" WEEP HOLES FOR TYPICAL RECTANGULAR CONCRETE CHANNEL LINING. TO BE STAGGERED.

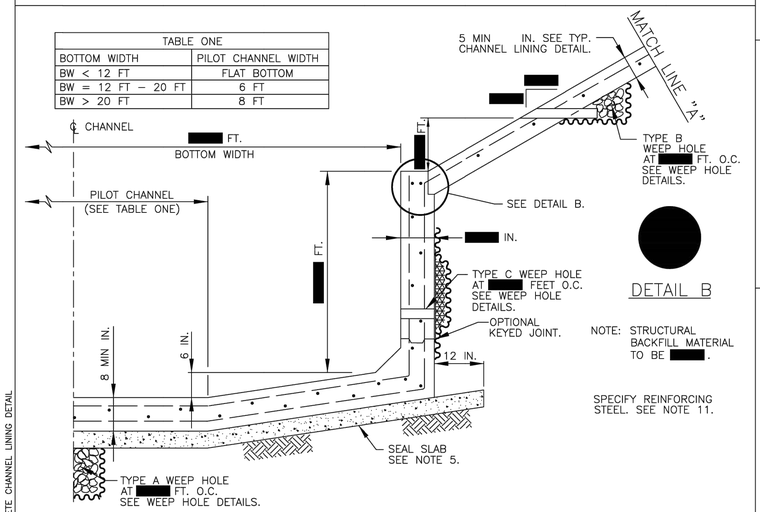
WEEP HOLE DETAILS

GENERAL NOTES:

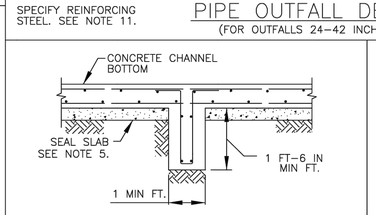
1. STRUCTURAL CONCRETE FOR CONCRETE CHANNEL LINING AND NONSTRUCTURAL CONCRETE FOR SEAL SLAB SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION NO. 03310-CONCRETE.
2. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION NO. 03310-CONCRETE.
3. EXCAVATION AND BACKFILL FOR CONCRETE CHANNEL LINING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION NO. 02316-STRUCTURAL EXCAVATING AND BACKFILLLING.
4. RIPRAP SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION NO. 02378-RIPRAP AND GRANULAR FILL.
5. A NON-REINFORCED 4 INCH MINIMUM NONSTRUCTURAL CONCRETE SEAL SLAB WILL BE REQUIRED BENEATH THE BOTTOM OF CONCRETE CHANNELS.
6. STRUCTURAL CONCRETE GRADE BEAMS SHALL BE INSTALLED TRANSVERSLEY AT 20 FOOT MAX. CENTERS ON CONCRETE LINED CHANNELS WITH BOTTOM WIDTHS EQUAL TO OR GREATER THAN 20 FEET.
7. JOINTS:
   A. PLACE CONSTRUCTION AND/OR EXPANSION JOINT IN CONCRETE LOW-FLOW AND TRAPEZOIDAL BOTTOM SECTIONS AT 20 FOOT MIN., 60 FOOT MAX. SPACING CONTINUOUSLY THROUGH CHANNEL LINING.
   B. PLACE CONTROL JOINT ON SLOPES AT 20 FOOT SPACING.
8. CEMENT STABILIZED SAND SHALL BE PROVIDED AND PLACED IN ACCORDANCE WITH SPECIFICATION SECTION NO. 02321-CEMENT STABILIZED SAND.
9. DELETE 2 FT FLAT EDGE WHEN LINING IS BELOW TOP OF BANK. SEE MID-SLOPE LINING DETAIL.
10. UPSTREAM AND DOWNSTREAM TOE WALL 3 FOOT MIN. DEPTH AT BOTTOM OF SLOPE AND 8 INCHES THIICK.
11. #4 AT 12 INCH O.C. MINIMUM OR EQUIVALENT WELDED WIRE FABRIC.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON HCFCD PROJECTS OR PROJECTS TO BE MAINTAINED BY THE HCFCD WHEN COMPLETED BY OTHERS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE §137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.

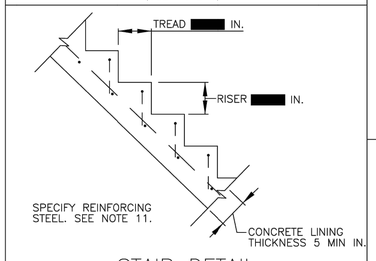
P.E. SEAL AND SIGNATUARE



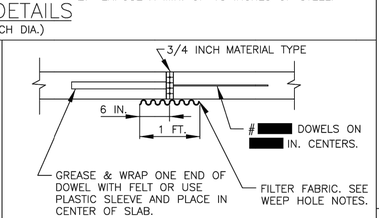
TYPICAL RECTANGULAR CONCRETE CHANNEL LINING HALF SECTION



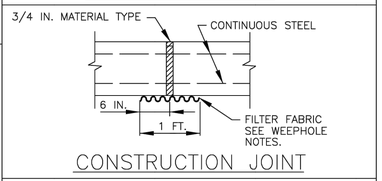
GRADE BEAM DETAIL
(SEE NOTE 6)



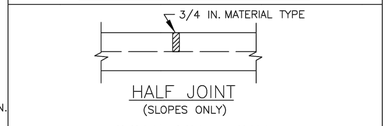
STAIR DETAIL



EXPANSION JOINT



CONSTRUCTION JOINT



HALF JOINT
(SLOPES ONLY)

CONTROL JOINT

REV						
DESCRIPTION						
DATE						
APPR						

CONCRETE CHANNEL LINING DETAILS

PREPARED: CHECKED: APPROVED:

Harris County Flood Control District
9900 Northwest Freeway
Houston, Texas 77092

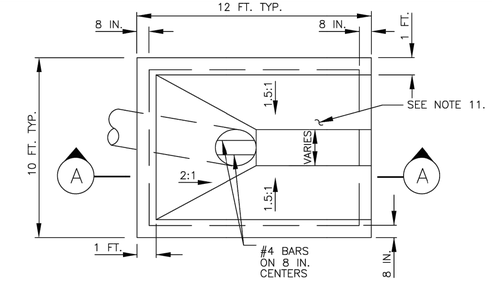
DATE: 08-31-05
SCALE: NTS

SHEET NUMBER
OF

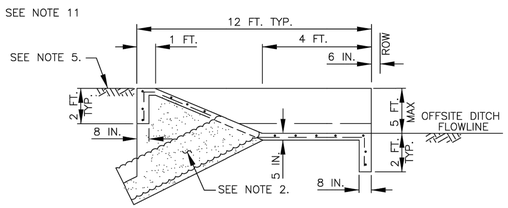
2

STD\CONCRETE CHANNEL LINING DETAIL

COT STM-28

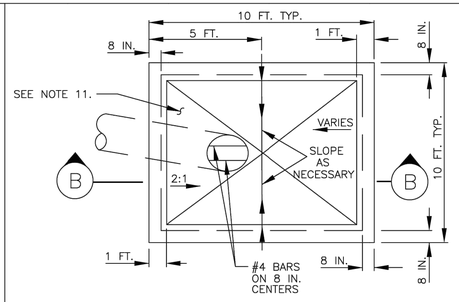


PLAN

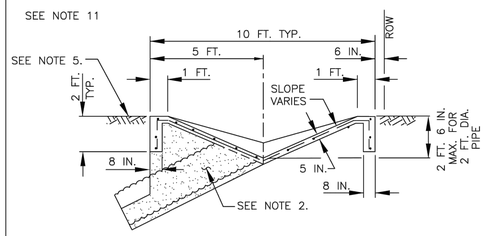


A SECTION

TYPICAL OFFSITE DITCH INTERCEPTOR STRUCTURE
(42 INCH MAX.)

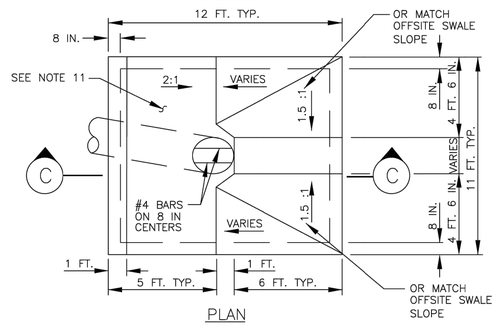


PLAN

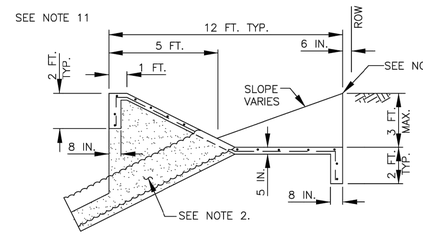


B SECTION

TYPICAL BACKSLOPE INTERCEPTOR STRUCTURE
(24 INCH & 30 INCH ONLY)

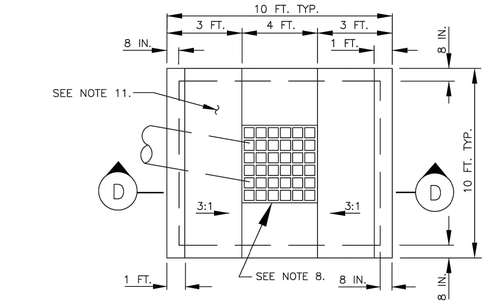


PLAN

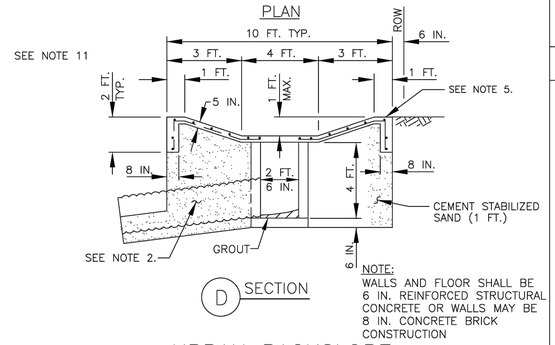


C SECTION

COMBINATION BACKSLOPE & OFFSITE DITCH INTERCEPTOR STRUCTURE
(42 INCH MAX.)



PLAN



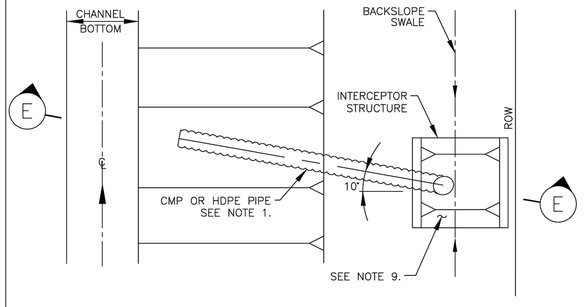
D SECTION

NOTE:
WALLS AND FLOOR SHALL BE 6 IN. REINFORCED STRUCTURAL CONCRETE OR WALLS MAY BE 8 IN. CONCRETE BRICK CONSTRUCTION

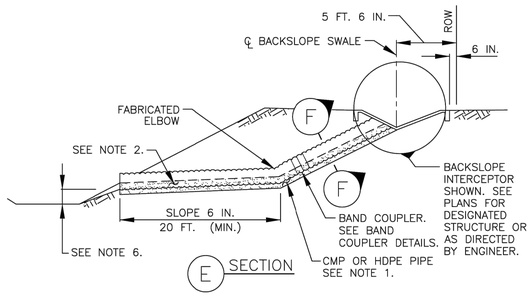
URBAN BACKSLOPE INTERCEPTOR STRUCTURE
(24 INCH ONLY)

REV	DESCRIPTION	DATE	APPR
1.	TYPICAL INTERCEPTOR OUTFALL STRUCTURE LAYOUT	11/21/05	

INTERCEPTOR STRUCTURE DETAILS

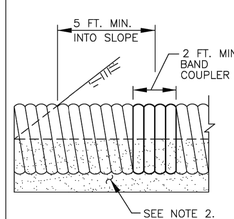


PLAN

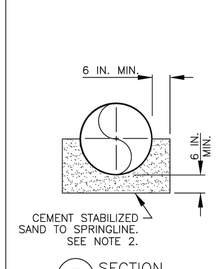


E SECTION

TYPICAL INTERCEPTOR OUTFALL STRUCTURE LAYOUT

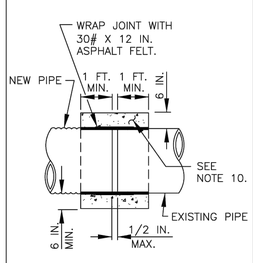


CMP BAND COUPLER DETAIL

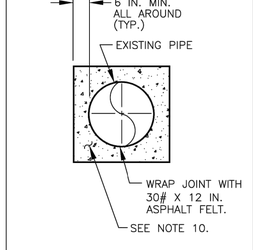


F SECTION

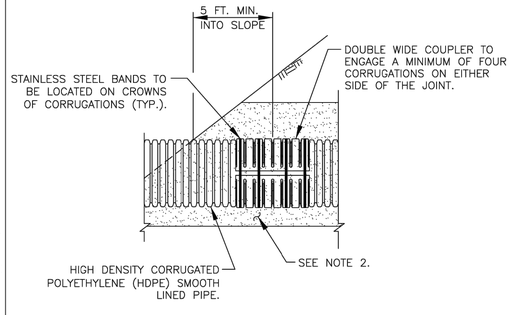
BEDDING CMP DETAIL



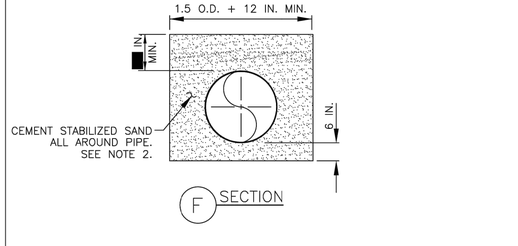
CONCRETE COLLAR DETAIL



BEDDING CONCRETE PIPE DETAIL



HDPE PIPE BAND COUPLER DETAIL



F SECTION

BEDDING HDPE PIPE DETAIL

INTERCEPTOR STRUCTURE DETAIL NOTES:

1. INTERCEPTOR OUTFALL PIPES WITHIN THE HCFCD RIGHT-OF-WAY SHALL BE CMP OR HDPE PIPE IN ACCORDANCE WITH SPECIFICATION SECTION 02642- CORRUGATED METAL PIPE, HIGH DENSITY POLYETHYLENE (HDPE) PIPE IN ACCORDANCE WITH SPECIFICATION SECTION 2505-HIGH DENSITY POLYETHYLENE, OR APPROVED EQUAL.
2. PROVIDE AND PLACE CEMENT STABILIZED SAND IN ACCORDANCE WITH SPECIFICATION SECTION 02321-CEMENT STABILIZED SAND AND SECTION 02316 - STRUCTURAL EXCAVATING.
3. EXCAVATION, FILL AND BACKFILL FOR STORM SEWER OUTFALLS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02316-STRUCTURAL EXCAVATING AND BACKFILLING.
4. CONCRETE SHALL BE STRUCTURAL CONCRETE IN ACCORDANCE WITH SPECIFICATION SECTION 03310-CONCRETE.
5. INTERCEPTOR STRUCTURES:
   a. ADJUST LENGTH AND WIDTH IN FIELD AS NECESSARY.
   b. 2-FEET DEEP X 8-INCH WIDE TOE ALL AROUND THE STRUCTURE.
   c. STEEL REINFORCING-#4 BARS (GRADE 40) AT 12 INCHES ON CENTER EACH WAY.
   d. ANY INTERCEPTOR OUTFALL PIPE LARGER THAN MAXIMUM SIZE INDICATED REQUIRES A SEPARATE DETAIL.
   e. MATCH TOP OF CONCRETE WITH NATURAL GROUND.
6. SET FLOWLINE OF OUTFALL PIPES 1 FOOT ABOVE CHANNEL FLOWLINE OR 1 FOOT ABOVE NORMAL WATER SURFACE ELEVATION.
7. SEE CONCRETE CHANNEL LINING DETAIL SHEET FOR CMP OR HDPE OUTFALL DETAILS THROUGH CONCRETE CHANNEL LINING.
8. CONCRETE PAD AROUND TYPE "B" INLET: PAID FOR AS CONCRETE INTERCEPTOR STRUCTURE PER UNIT PRICE SCHEDULE. TYPE "B" INLET BOX, COH DWG. NO. 02632-02 WITH GRATE TOP, VULCAN FOUNDRY COMPANY, V-4880-1 OR APPROVED EQUAL, APPROX. 489 SQ.IN. OPENING.
9. BACKSLOPE SWALE AND INTERCEPTOR STRUCTURE ELEVATIONS AND LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL ELEVATIONS AND LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
10. STRUCTURAL CONCRETE WITH #4 BARS (GRADE 40) 12 INCH O.C. EACH WAY - FOR COLLARS ONLY.
11. EPOXY CLEAN WATER CLEAR CHOICE LOGO BUTTON ON INTERCEPTORS. LOCATION TO BE DETERMINED BY THE ENGINEER.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON HCFCD PROJECTS OR PROJECTS TO BE MAINTAINED BY THE HCFCD WHEN COMPLETED BY OTHERS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE §137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.

P.E. SEAL AND SIGNATURE

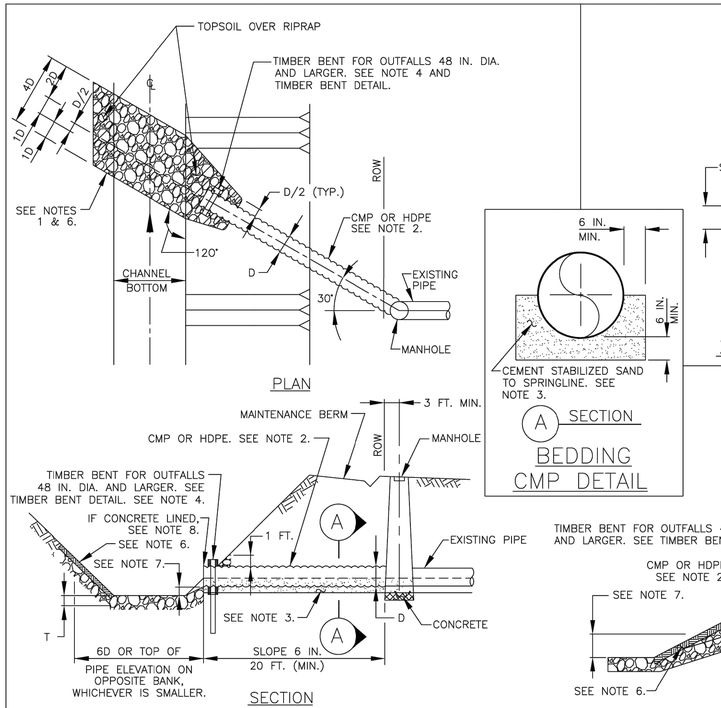
PREPARED:	CHECKED:	APPROVED:

Harris County Flood Control District
9900 Northwest Freeway
Houston, Texas 77092

DATE: 11-21-05
SCALE: NTS

SHEET NUMBER
- OF -

2

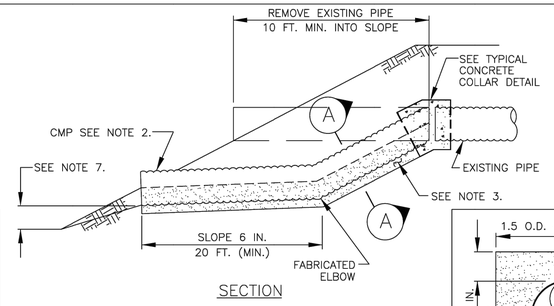


PLAN

SECTION

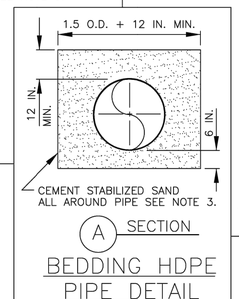
TYPICAL STORM SEWER OUTFALL STRUCTURE LAYOUT

BEDDING CMP DETAIL

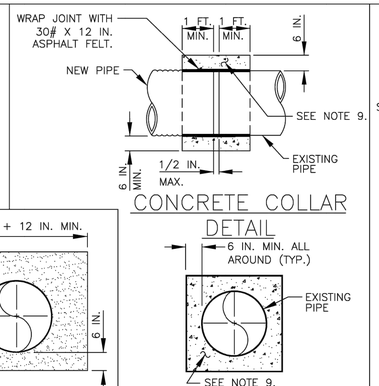


SECTION

PIPE ADJUSTMENT DETAIL 24–INCH TO 42–INCH DIAMETER

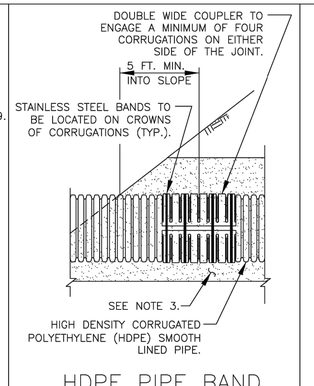


BEDDING HDPE PIPE DETAIL

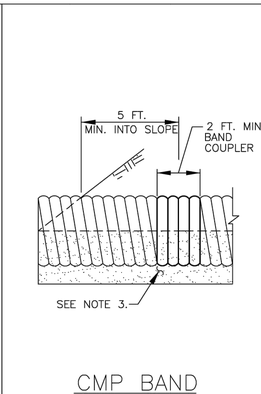


CONCRETE COLLAR DETAIL

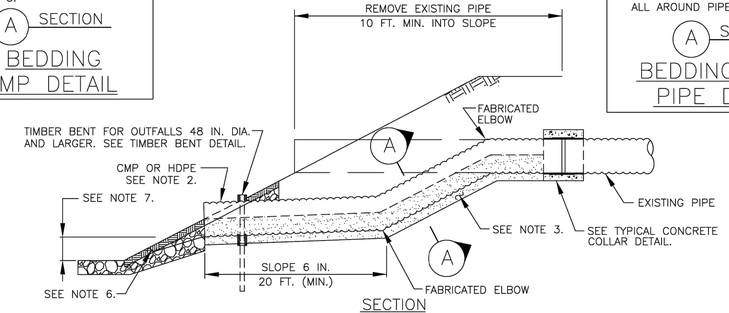
BEDDING CONCRETE PIPE DETAIL



HDPE PIPE BAND COUPLER DETAIL

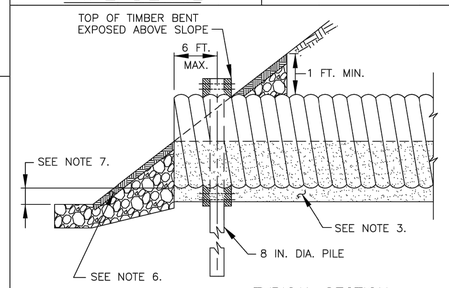


CMP BAND COUPLER DETAIL

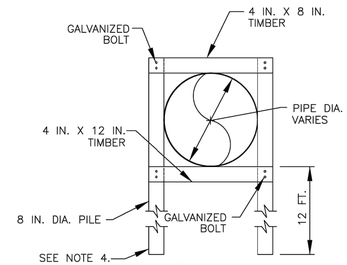


SECTION

PIPE ADJUSTMENT DETAIL 48–INCH AND LARGER DIAMETER



TYPICAL SECTION

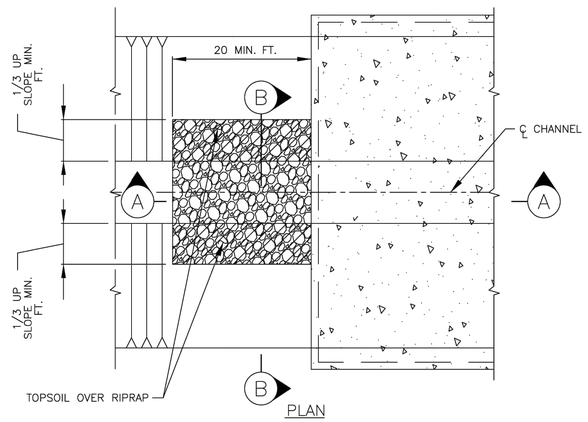


ELEVATION

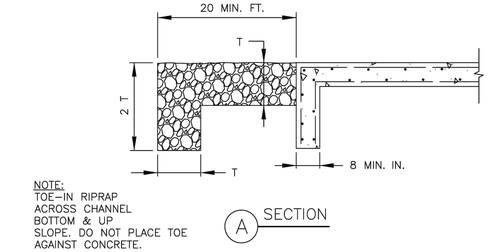
TIMBER BENT DETAIL FOR 48–INCH AND LARGER OUTFALLS

REV	DESCRIPTION	DATE	APPR

STORM SEWER AND RIPRAP DETAILS



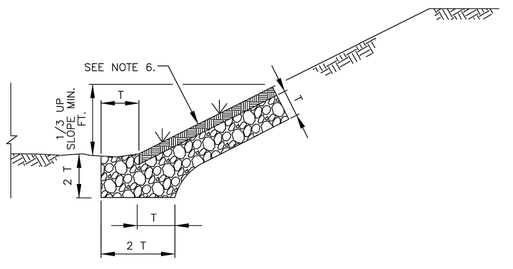
PLAN



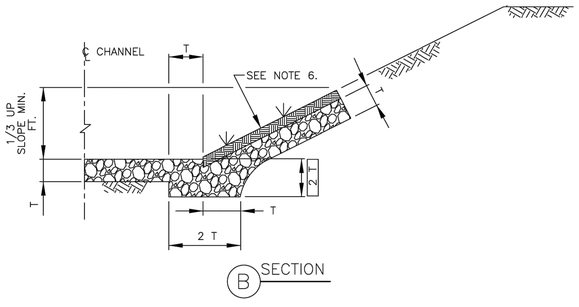
NOTE:
TOE–IN RIPRAP ACROSS CHANNEL BOTTOM & UP SLOPE. DO NOT PLACE TOE AGAINST CONCRETE.

A SECTION

NOTE:
T (MAT THICKNESS)
18 MIN. IN. GRADE 1



TYPICAL RIPRAP LINING DETAIL–SIDE SLOPE ONLY



B SECTION

TYPICAL RIPRAP AT CONCRETE CHANNEL LINING

STORM SEWER OUTFALL NOTES:

1. INSTALL OUTFALLS 48 INCHES OR LARGER, AND STORM SEWER AND TREATMENT PLANT OUTFALLS OF ANY DIAMETER, WITH RIPRAP EROSION DIMENSIONED AS SHOWN IN "TYPICAL STORM SEWER OUTFALL STRUCTURE LAYOUT."
2. STORM SEWER OUTFALL PIPES WITHIN THE HCFCD RIGHT–OF–WAY SHALL BE CMP OR HDPE IN ACCORDANCE WITH SPECIFICATION SECTION 02642–CORRUGATED METAL PIPE, HIGH DENSITY POLYETHYLENE PIPE (HDPE) IN ACCORDANCE WITH SPECIFICATION SECTION 02505–HIGH DENSITY POLYETHYLENE PIPE, OR APPROVED EQUAL.
3. PROVIDE AND PLACE CEMENT STABILIZED SAND IN ACCORDANCE WITH SPECIFICATION SECTION NO. 02321–CEMENT STABILIZED SAND.
4. TIMBER BENTS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02464–TIMBER BENTS.
5. STORM SEWER OUTFALLS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02316–STRUCTURAL EXCAVATING AND BACKFILLING.
6. RIPRAP SHALL BE PLACED IN ACCORDANCE WITH SPECIFICATION SECTION 02378–RIPRAP AND GRANULAR FILL. FILL RIPRAP VOIDS AND BURY RIPRAP A MINIMUM OF 6 INCHES WITH TOPSOIL ON SIDE SLOPE AS DIRECTED BY THE ENGINEER.
7. SET FLOWLINE OF OUTFALLS 1 FOOT ABOVE CHANNEL FLOWLINE OR 1 FOOT ABOVE NORMAL WATER SURFACE ELEVATION.
8. SEE CONCRETE CHANNEL LINING DETAIL SHEET FOR CMP OR HDPE OUTFALL DETAILS THROUGH CONCRETE CHANNEL LINING.
9. STRUCTURAL CONCRETE #4 BARS (GRADE 40) 12 INCH O.C. EACH WAY – FOR COLLARS ONLY.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON HCFCD PROJECTS OR PROJECTS TO BE MAINTAINED BY THE HCFCD WHEN COMPLETED BY OTHERS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE §137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.

P.E. SEAL AND SIGNATURE

2

PREPARED:	CHECKED:	APPROVED:

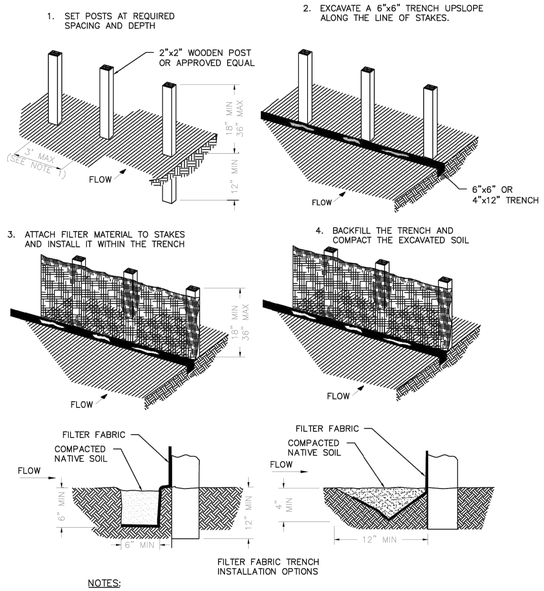
Harris County Flood Control District
9900 Northwest Freeway
Houston, Texas 77092

DATE: 08–31–05
SCALE: NTS

SHEET NUMBER
— OF —

STD\STORM SEWER OUTFALL DETAILS

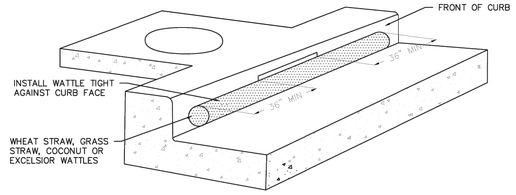
COT STM–30



NOTES:

1. POSTS TO BE SET AT THREE (3) FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO EIGHT (8) FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED SIX (6) INCHES AT THE POSTS AND FOLDED.

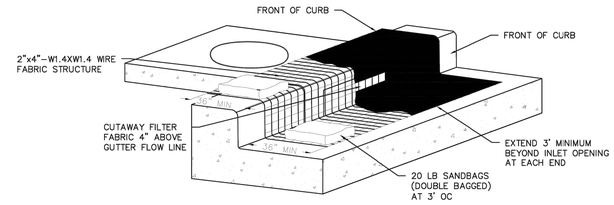
1 FILTER FABRIC FENCE DETAIL
NOT TO SCALE



NOTES:

1. ONLY ALLOWED USE OF APPLICATION IS ON CURB AND GUTTER INLETS.
2. INSTALL WATTLE ALONG INLET WITH WATTLE EXTENDING A MIN OF 36" BEYOND INLET OPENINGS IN EACH DIRECTION.
3. WATTLE MUST BE INSTALLED TIGHTLY AGAINST CURB. MAY REQUIRE ADDITIONAL MEASURES TO ENSURE WATTLE REMAINS TIGHT AGAINST CURB, SUCH AS USING ZIP TIES TO SECURE WATTLE TO INLET'S TRASH BARS OR USING SANDBAGS TO WEIGHT DOWN WATTLE.
4. REPLACE WATTLE AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE STORM SYSTEM.

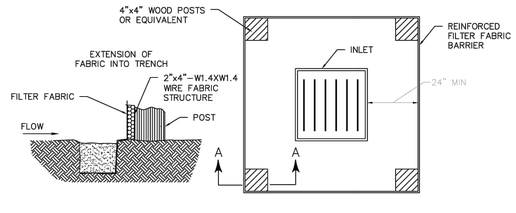
2 WATTLE INLET PROTECTION BARRIER DETAIL
NOT TO SCALE



NOTES:

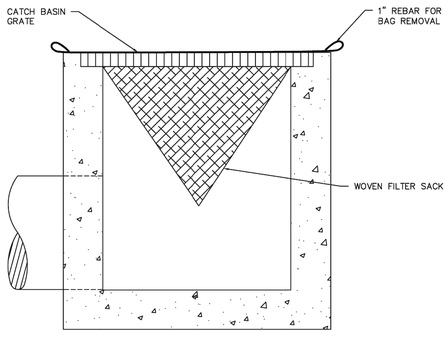
1. TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C.
2. MINIMUM 3" OVERLAP OF FILTER FABRIC WHERE SPLICE IS NECESSARY.
3. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
4. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". INLET PROTECTION SHALL BE REPLACED AS NECESSARY DURING CONSTRUCTION DUE TO DAMAGE OR DETERIORATION (SUBSIDIARY TO INLET PROTECTION).
5. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND ONLY REMOVE INLET PROTECTION IF DIRECTED BY THE CITY OR IF CONTRACTOR OBSERVES AN IMMINENT THREAT OF FLOODING OF SURROUNDING PROPERTY.
6. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

3 FILTER FABRIC INLET PROTECTION BARRIER DETAIL
NOT TO SCALE



SECTION A–A PLAN

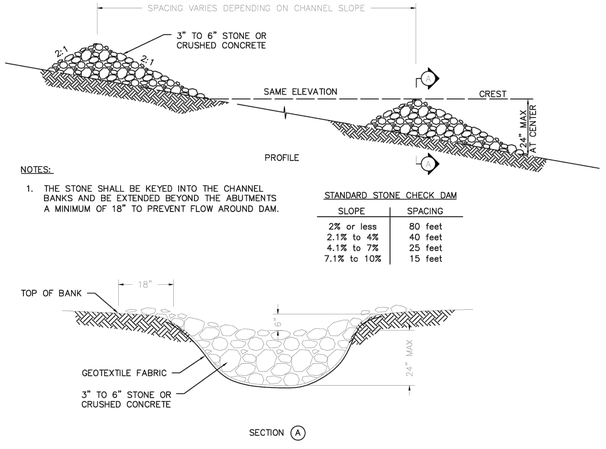
4 STAGE I INLET PROTECTION BARRIER DETAIL
NOT TO SCALE



NOTES:

1. REPLACE SACK AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING THE STORM SYSTEM.

5 CATCH BASIN INSERT DETAIL
NOT TO SCALE



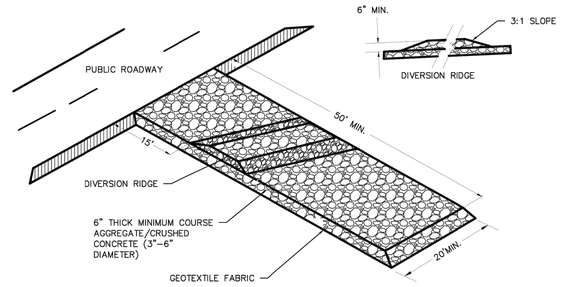
NOTES:

1. THE STONE SHALL BE KEYED INTO THE CHANNEL BANKS AND BE EXTENDED BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND DAM.

STANDARD STONE CHECK DAM

SLOPE	SPACING
2% or less	80 feet
2.1% to 4%	40 feet
4.1% to 7%	25 feet
7.1% to 10%	15 feet

6 ROCK CHECK DAM DETAIL
NOT TO SCALE



NOTES:

1. A STONE STABILIZED PAD SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT–OF–WAY, STREET, ALLEY, SIDEWALK, PARKING AREA, OR ANY OTHER AREA WHERE THERE IS A TRANSITION FROM BARE SOIL TO A PAVED AREA.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 3–6 INCH STONE OR CRUSHED CONCRETE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

7 CONSTRUCTION EXIT DETAIL
NOT TO SCALE

2

NO. | DATE | REVISION

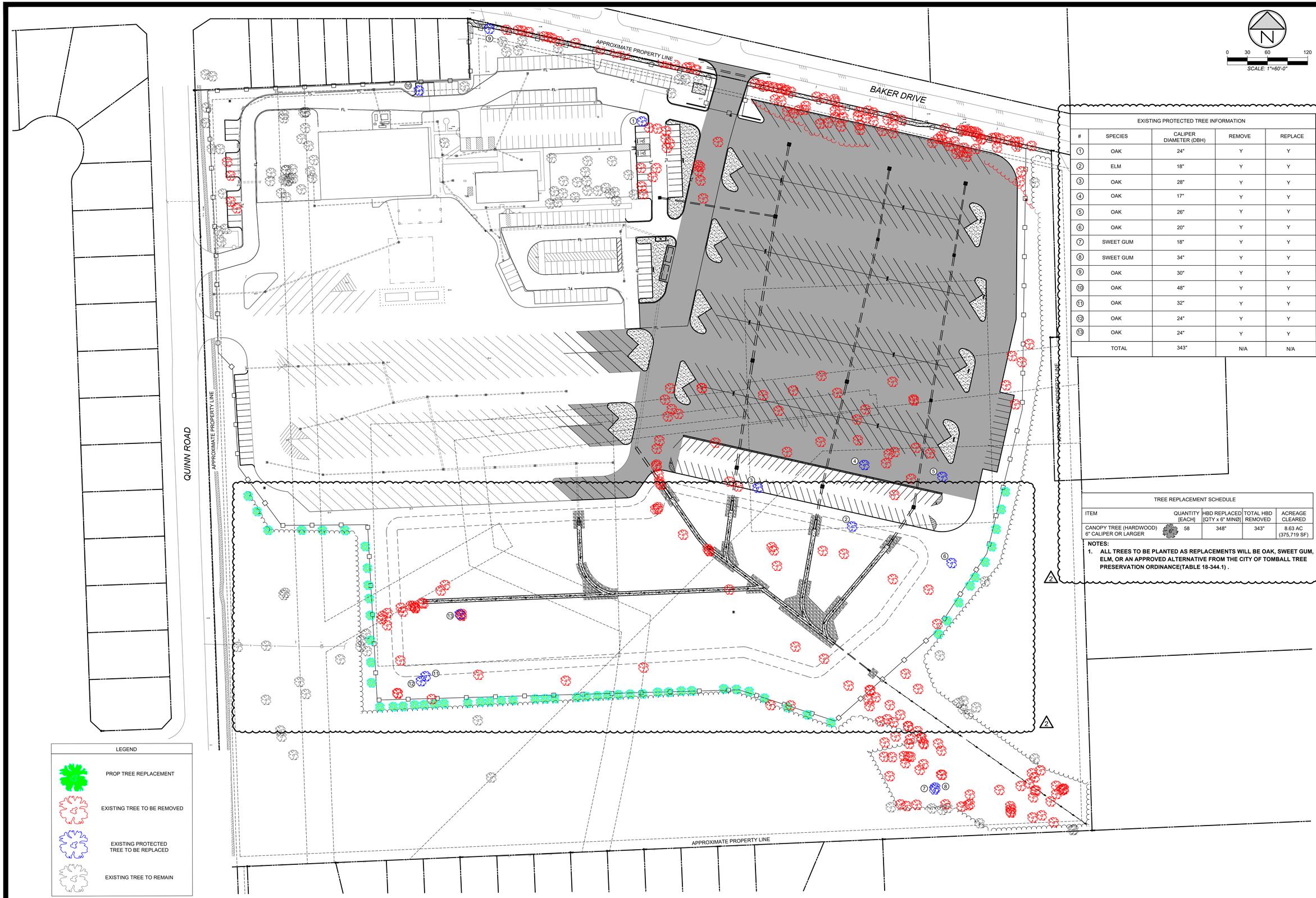
CITY OF TOMBALL

STORM WATER POLLUTION PREVENTION DETAILS

APPROVED BY CITY OF TOMBALL ENGINEERING DEPARTMENT
CITY ENGINEER
EFFECTIVE MARCH 17, 2021

SHEET SWP–01

SEQ.



N

0 30 60 120

SCALE: 1"=60'-0"

EXISTING PROTECTED TREE INFORMATION

#	SPECIES	CALIPER DIAMETER (DBH)	REMOVE	REPLACE
1	OAK	24"	Y	Y
2	ELM	18"	Y	Y
3	OAK	28"	Y	Y
4	OAK	17"	Y	Y
5	OAK	26"	Y	Y
6	OAK	20"	Y	Y
7	SWEET GUM	18"	Y	Y
8	SWEET GUM	34"	Y	Y
9	OAK	30"	Y	Y
10	OAK	48"	Y	Y
11	OAK	32"	Y	Y
12	OAK	24"	Y	Y
13	OAK	24"	Y	Y
	TOTAL	343"	N/A	N/A

TREE REPLACEMENT SCHEDULE

ITEM	QUANTITY [EACH]	HBD REPLACED [QTY x 6" MIN Ø]	TOTAL HBD REMOVED	ACREAGE CLEARED
CANOPY TREE (HARDWOOD) 6" CALIPER OR LARGER	58	348"	343"	8.63 AC (375,719 SF)

NOTES:

1. **ALL TREES TO BE PLANTED AS REPLACEMENTS WILL BE OAK, SWEET GUM, ELM, OR AN APPROVED ALTERNATIVE FROM THE CITY OF TOMBALL TREE PRESERVATION ORDINANCE(TABLE 18-344.1) .**

LEGEND

- PROP TREE REPLACEMENT
- EXISTING TREE TO BE REMOVED
- EXISTING PROTECTED TREE TO BE REPLACED
- EXISTING TREE TO REMAIN

REVISIONS					
#	1	2	3	4	D:\364\364003\364003_Landscape Site Plan.dwg 9/27/2023 7:48 AM
DATE	5/19/26	----	----	----	
	Addendum 2	----	----	----	

DRAWN BY: TW | APP'D BY: MH | ISSUED: 04/02/2026

T.B.P.E.L.S FIRM NO. F-413
T.B.A.E. FIRM NO. BR 351
T.B.P.E.L.S FIRM NO. 10110800

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LANDSCAPE - SURVEYING
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4477 CROSS BLUFF RD. STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
455 RICE ROAD STE. 107 - TYLER, TEXAS 75703 - (903) 581-3805
619 AUSTIN AVE - WACO, TEXAS 76701 - (254) 218-1544

STATE OF TEXAS
MICHAEL G. HOLMES
148750
LICENSED
PROFESSIONAL LANDSCAPE ARCHITECT

Michael Holmes

5/18//26

Transportation Facility Improvements

Tomball ISD

Tomball, Texas

Landscape Site Plan

JOB NUMBER 364003

SHEET NO.

C6.00

Lanscape Site Plan | 1"=60'-0" | 1