TOMBALL INDEPENDENT SCHOOL DISTRICT

PLANS FOR

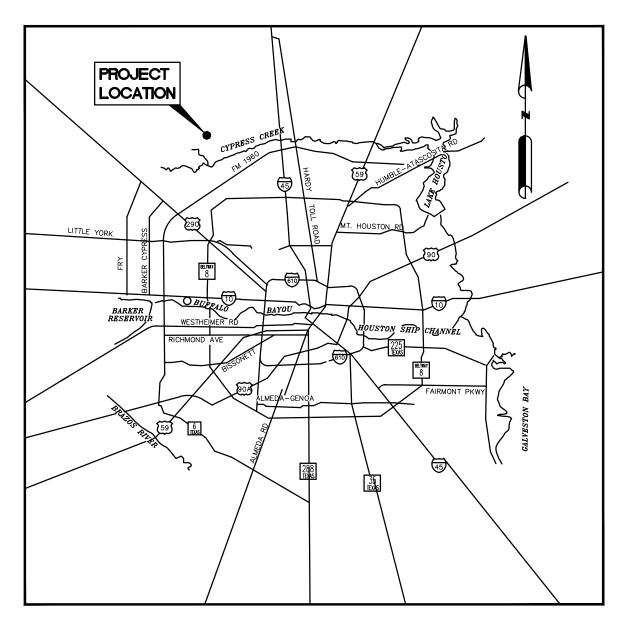
CONSTRUCTION OF PROPOSED L109-00-00 CHANNEL

TO SERVE

JUERGEN ROAD EDUCATIONAL CAMPUS

Development Table Project # Juergen Road Educational Campus

1	Total: Acreage within the tract owned by the Developer within the Little Cypress Creek Service Area	205.7700	acres
sment	Subtotal: Acreage developed prior to February 11, 2014 (as shown on plans) and all new ROW dedicated according the Master Thoroughfare Plan	0.7571	acres
3 Ses	Subtotal: Acreage developed in a previous phase under the LCCIG	0.0000	
4) 88 4) 88	Subtotal: Acreage Proposed to be Developed in this phase	205.0129	acres
act Fee		0.0000	acres
9 mpact	Little Cypress Creek Impact Fee	\$ 4,000.00	per acre
7 =	Total Impact Fee Due for Development Acreage (Line 4 times Line 6)	\$ 820,051.72	-
8	Subtotal Impact Fees Previously Paid	\$ -	
9	Total TRE to be provided in this development phase (Line 10+Line 11)	182.46	ac-ft
10	Required mitigation detention for this development phase (Line 4 times 0.55 ac-ft/ac)	112.76	ac-ft
11	Required Conveyance detention for this development phase (Line 4 times 0.34 ac-ft/ac)	69.70	ac-ft
12 2	Remaining developable Property after this development phase without previously provided TRE (Line 5)	0.00	acres
13	TRE Volume for total remaining developable property after this development phase (Line 14+Line 15)	0.00	ac-ft
14	Required mitigation detention for entire developable Property (Line 5 times 0.55 ac-ft/ac)	0.00	ac-ft
15	Required Conveyance detention for entire developable Property (Line 5 times 0.34 ac-ft/ac)	0.00	ac-ft



LOCATION MAP N.T.S.

48 HOUR NOTICE:

CONTRACTOR SHALL NOTIFY HARRIS COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/OR BACKFILLING ANY UTILITIES. CONTRACTOR(S) TO CONTACT PUBLIC REVIEW DEPARTMENT @ (713-274-3931) OR (public.review@cpid.org).

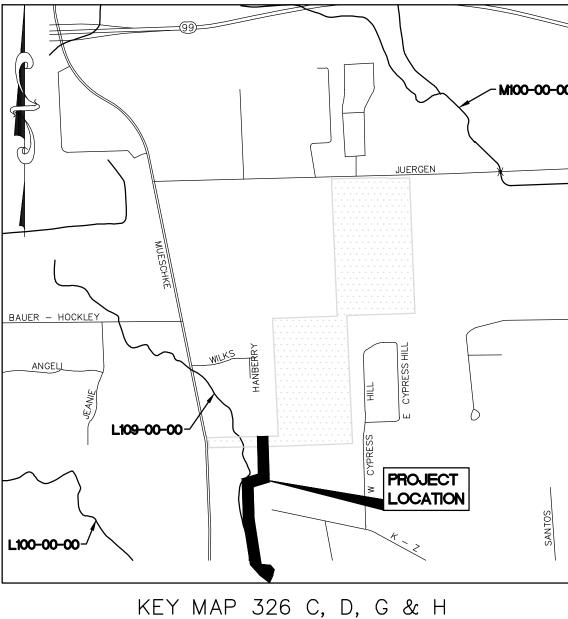
SEPTEMBER 2025

THE 48--HOUR PRE-CONSTRUCTION NOTIFICATION FORM TO HCFCD AT DCID@HCFCD.ORG.

NOTIFICATIONS (PERMIT) ISSUED BY HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT - PERMITS

ADDITIONAL INFORMATION, PLEASE VISIT http://hcpid.org/permits/pr_notification_of_construction.html OR CONTACT PUBLIC REVIEW INSPECTIONS DEPARTMENT @ (713-274-3931 OR public.review@hcpid.org)

VICINITY MAP



ZIP CODE: 77433, 77377 SCALE N.T.S.

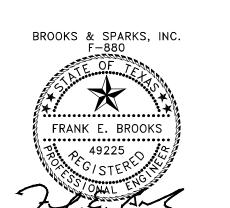


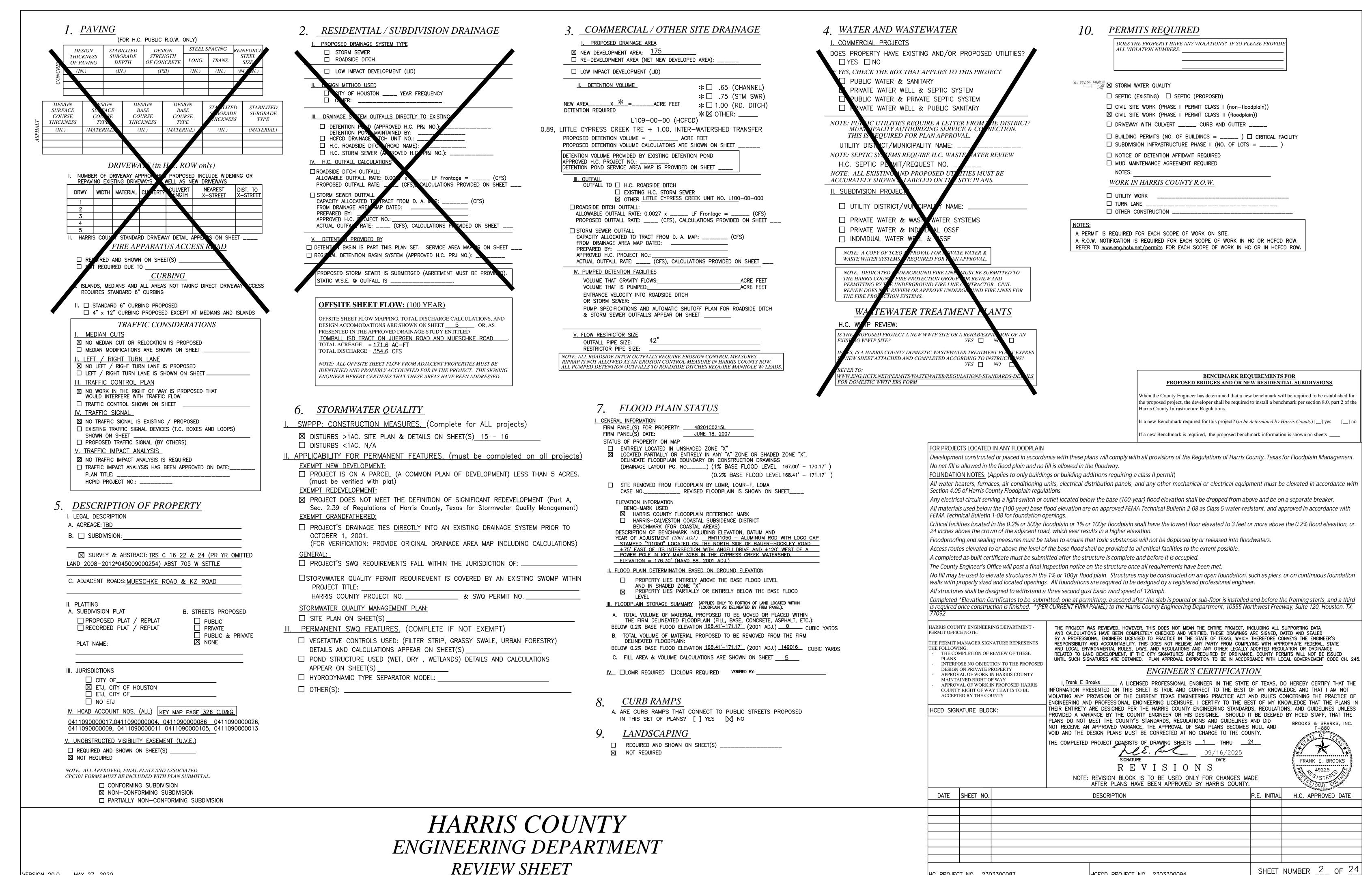


INDEX

SHEET NO. **DESCRIPTION**

1.	COVER SHEET
2.	HARRIS COUNTY EXPRESS REVIEW SHEET
3.	HARRIS COUNTY FLOOD CONTROL DISTRICT EXPRESS REVIEW SHEET
4.	GENERAL NOTES
5.	PROJECT LAYOUT
6.	SHEET INDEX
7.	DEMOLITION PLAN
8.	SERVICE AREA MAP
9.	TYPICAL SECTIONS
10.	L109-00-00 PLAN AND PROFILE STA. 1+00 TO STA. 10+00
11.	L109-00-00 PLAN AND PROFILE STA. 10+00 TO STA. 20+00
12.	L109-00-00 PLAN AND PROFILE STA. 20+00 TO STA. 26+00
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14.	L109-00-00 OUTFALL PLAN AND PROFILE STA. 7+00 TO 15+00
15.	STORM WATER POLLUTION PREVENTION PLAN
16.	STORM WATER POLLUTION PREVENTION DETAILS
17.	CONCRETE WINGWALL WITH STRAIGHT WINGS
18.	HCFCD OUTFALL AND INTERCEPTOR STRUCTURE DETAILS
19.	HCFCD CONCRETE CHANNEL LINING DETAILS
20.	HCFCD STORM SEWER AND RIPRAP DETAILS
21.	CROSS SECTIONS STA. 2+00 TO STA. 9+00
22.	CROSS SECTIONS STA. 10+00 TO STA. 18+00
23.	CROSS SECTIONS STA. 19+00 TO STA. 27+00
24.	CROSS SECTIONS STA. 28+00 TO STA. 33+00





SHEET NUMBER 2 of 24

HC PROJECT NO. 2303300087

HCFCD PROJECT NO. 2303300094

1. PROPERTY DESCRIPTION	2. SITE DETENTION DRAINAGE	3. SWQ DISCHARGE INTO FCD FACILITY	4. FLOOD PLAIN STATUS
I. LOCATION INFORMATION	I. PROPOSED DRAINAGE AREA	I. SWPPP: CONSTRUCTION MEASURES. (Must complete)	I. GENERAL INFORMATION
A. HARRIS COUNTY COMMISSIONER'S PRECINCT: □ 1 □ 2 ☑ 3 □ 4	NEW DEVELOPMENT AREA:175 □ RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA):	☐ DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S)	FIRM PANEL(S) FOR PROPERTY: 48201C0215L FIRM PANEL(S) DATE: JUNE 18, 2007
B. KEY MAP: <u>326 C,D&G</u>	☐ LOW IMPACT DEVELOPMENT (LID) METHOD/DESCRIPTION	DISTURBS <1AC. N/A	STATUS OF PROPERTY ON MAP ☐ ENTIRELY LOCATED IN UNSHADED ZONE "X" ☑ LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", ☐ DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS
C. ADDRESS: <u>x</u>		*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)	(DRAINAGE LAYOUT PG. NO. <u>5</u>) (1% BASE FLOOD LEVEL 167.00' – 170.17')
II. LEGAL DESCRIPTION	II. METHODOLOGY	EXEMPT NEW DEVELOPMENT:	(0.2% BASE FLOOD LEVEL 168.41' – 171.17') □ SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR—F, LOMA
A. ACREAGE: B. SUBDIVISION:	HCFCD PCPM DETENTION METHOD USED:	☐ PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)	CASE NO REVISED FLOODPLAIN IS SHOWN ON SHEET
	☐ METHOD 1 (LESS THAN 20 ACRES) ☐ METHOD 2 (20 ACRES TO 640 ACRES)	EXEMPT REDEVELOPMENT: ☑ PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT	ELEVATION INFORMATION BENCHMARK USED ☑ HARRIS COUNTY FLOODPLAIN REFERENCE MARK
SURVEY & ABSTRACT: <u>TRS C 16 22 & 24 (PR YR OMITTED</u> LAND 2008−2012*045009000254) ABST 705 W SETTLE	METHOD 3 (GREATER THAN 640 ACRES)	REDEVELOPMENT (Part A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)	☐ HARRIS—GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS) DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND
C. ADJACENT ROADS: MUESCHKE ROAD & KZ ROAD	☑ OTHER OPTIONAL ROUTING METHOD	EXEMPT GRANDFATHERED:	YEAR OF ADJUSTMENT (2001 ADJ.) RM111050 - ALUMINUM ROD WITH LOGO CAP STAMPED "111050" LOCATED ON THE NORTH SIDE OF BAUER-HOCKLEY ROAD
	III. DETENTION VOLUME & OUTFALL OUTFALL TO:	☐ PROJECT'S DRAINAGE TIES <u>DIRECTLY</u> INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001.	±75' EAST OF ITS INTERSECTION WITH ANGELI DRIVE AND ±120' WEST OF A POWER POLE IN KEY MAP 326B IN THE CYPRESS CREEK WATERSHED. ELEVATION = 176.30' (NAVD 88, 2001 ADJ.)
III. PLATTING A. SUBDIVISION PLAT B. STREETS PROPOSED	.65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.)	(FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)	
☐ PROPOSED PLAT / REPLAT ☐ PUBLIC ☐ PROPOSED PLAT / REPLAT ☐ PRIVATE		GENERAL: ☐ PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF:	
PLAT NAME: PLAT NAME: PLAT NAME: PUBLIC & PRIVATE NONE			II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION
	☐ 1.00, ROADSIDE DITCH, (OWNER & ROAD NAME)	☐ STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE:	□ PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X" □ PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD
<u>IV. JURISDICTIONS</u>	\boxtimes OTHER (OWNER & OPERATOR) <u>L109-00-00 (HCFCD)</u> <u>0.89, LITTLE CYPRESS CREEK TRE + 1.00, INTER-WATERSHED TRANSFER</u>		LEVEL
☐ CITY OF ☑ ETJ, CITY OF HOUSTON		HARRIS COUNTY PROJECT No & SWQ PERMIT No. STORMWATER QUALITY MANAGEMENT PLAN:	III. FLOODPLAIN STORAGE SUMMARY (APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).
☐ ETJ, CITY OF HOUSTON ☐ ETJ, CITY OF ———————————————————————————————————	IV. STORMWATER DETENTION BASIN INFORMATION	SITE PLAN ON SHEET(S)	A. TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.):
UTILITY DISTRICT (NAME)	NOTE: SEE DETENTION A. HCFCD PCPM SUMMARY TABLE SEE SHEET5 OF THESE PLANS. SUMMARY TABLES ON SHEET 5.		BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) 168.41'-171.17' CUBIC YARDS0
V. HCAD ACCOUNT NOS. (ALL) KEY MAP PAGE 326 C,D&G	DETENTION BASIN SERVICE AREA 175 acres	□ VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE,	B. TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN:
	50% EXCEEDANCE 10% EXCEEDANCE 1% EXCEEDANCE STORM EVENT (2-YEAR) (10-YEAR) MAXIMUM ALLOWABLE OUTFLOW (PRE-	URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S)	BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) 168.41'-171.17' CUBIC YARDS 149016 INCLUDING CALCULATIONS)
	MAXIMUM ALLOWABLE OUTFLOW (PRE—DEVELOPMENT PEAK FLOW) MAXIMUM OUTFLOW PROVIDED (PEAK FLOW FROM BASIN) 127.6 234.6 391.1	☐ POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND	C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET <u>5</u>
	BASIN) 127.6 234.6 391.1 LOWEST NATURAL/FINISHED GROUND OR FINISHED FLOOR ELEVATION ESTIMATE	CALCULATIONSAPPEAR ON SHEET(S) HYDRODYNAMIC TYPE SEPARATOR MODEL:	
5. WORK IN HCFCD RIGHT-OF-WAY (FUTURE)	DESIGN WATER SURFACE ELEVATION		
I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFCD ROW	MINIMUM STORAGE REQUIRED (ac-ft) 229.3		HCFCD SIGNATURE BLOCK TOMBALL INDEPENDENT SCHOOL DISTRICT PLANS FOR CONSTRUCTION OF PROPOSED
A. BOND/NOTIFICATION INFORMATION ☑ HCFCD WATERSHED <u>LITTLE CYPRESS CREEK</u>	DETENTION STORAGE PROVIDED (ac-ft) 229.3 STORAGE RATE PROVIDED (ac-ft/ac) 1.31		TOMBALL INDEPENDENT SCHOOL DISTRICT PLANS FOR CONSTRUCTION OF PROPOSED PROJECT NAME: L109-00-00 CHANNEL TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS
 ✓ HOFCD WATERSTIED	OUTFLOW VELOCITY INTO CHANNEL (ft/sec) 4.36 4.69 7.81		ADDRESS:
☐ UTILITY CROSSING	DRAIN TIME - 1% ONLY (hours) EMERGENCY OVERFLOW (TYPE, SIZE, ELEVATION, ETC.)	6. REPORTS/AGREEMENTS	HARRIS COUNTY FLOOD CONTROL DISTRICT
□ ROADWAY BRIDGE/CULVERT CROSSING □ FILL ACTIVITY	(TYPE, SIZE, ELEVATION, ETC.)	I. HCFCD ACCEPTED REPORTS (ALL)	INTERPOSE NO OBJECTION
□ REHABILITATION OF CHANNEL □ MAINTENANCE		STORMWATER DRAINAGE DESIGN REPORT	FOR ITEMS LOCATED OUTSIDE OF HCFCD RIGHT-OF-WAY
☐ TEMPORARY CROSSING ☐ TRAIL (LENGTH)	B. DETENTION BASIN TO BE MAINTAINED BYHCFCD	REPORT TITLE TOMBALL ISD TRACT ON JUERGEN ROAD AND MUESCHKE ROAD DRAINAGE IMPACT ANALYSIS	APPROVED:
☑ OTHER <u>L109-00-00 CHANNEL IMPROVEMENTS</u> COST OF WORK IN HCFCD ROW <u>\$3,000,000.00</u>	C. DETENTION SERVICE AREA MAP ON SHEET <u>8</u> D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS	HCFCD PROJECT # 2207110017 ENGINEERING FIRM HDR ENGINEERING, INC	FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY APPROVED:
	VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = ACFT % OF TOTAL VOLUME MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = FT/SEC	REPORT ACCEPTANCE DATE 9/14/2022	BYFOR ITEMS LOCATED WITHIN PROPOSED HCFCD RIGHT-OF-WAY
☑ US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S)	DRAIN TIME FOR BASIN = HOURS BASED ONHEAD CONDITIONS	GEOTECHNICAL INVESTIGATION REPORT REPORT TITLE TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL	NO REVIEW REQUIRED:
☐ US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS ☐ OTHER	V. DETENTION PROVIDED IN OTHER PLANS: HCFCD PROJECT No DATE SIGNED ST HCFCD:	HCFCD PROJECT # 2302210180 ENGINEERING FIRM TERRACON	BYFINAL PERMITTING BY OTHERS
□ NO PERMITS REQUIRED EXPLAIN:	PLAN TITLE DETENTION POND SERVICE IS PROVIDED ON SHEET	REPORT ACCEPTANCE DATE 03/12/2024	ADDITIONAL COMMENTS:
	ENGINEEDING ENGINEEDING DETENTION BASIN MAINTAINED BY:	HCFCD APPROVED VARIANCE DESCRIPTION OF VARIANCE	
		 DOCUMENT ID #	
III. REFERENCE / BASIS OF DETERMINATION ☐ ENVIRONMENTAL CONSULTANT REPORT	VI. FLOW RESTRICTOR SIZE OUTFALL PIPE SIZE: 42" RCP RESTRICTOR PIPE SIZE: 42" RCP	VARIANCE ACCEPTANCE DATE	
BY REPORT TITLE	RESTRICTOR PLATE DIMENSION:	II. AGREEMENT TYPE & No.;	THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S
REPORT TITLE	VII. DETENTION PROVIDED BY REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.):	☐ INTERLOCAL (ILA): ☐ HCFCD MAINTENANCE	RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE ORTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNEMENT CODE CH. 2
		TURF ESTABLISHMENT	ENGINEER'S CERTIFICATION
REPORT DATE	FOR PROJECTS LOCATED IN ANY FLOODPLAIN Development constructed or placed in accordance with these plans will comply with all		I, Frank E Brooks , A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERT THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE
NOTES:	provisions of the designated Floodplain Administrator. No net fill is allowed in the flood plain and no fill is allowed in the floodway.		AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RUL CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.
I. — III. REQUIRED ON PROJECTS WITH WORK IN A HCFCD CHANNEL. PLEASE REFERENCE SECTION 17 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.	OFFSITE SHEET FLOW: (100 YEAR)		ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION
POLICI, CRITERIA, AND PROCEDURE MANOAL FOR MORE INFORMATION.	OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND		THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 24 BROOKS & SPARKS, INC.
IV. HCFCD STANDARD NOTES: SEE SHEET 4 OF THESE PLANS.	DESIGN ACCOMODATIONS ARE SHOWN ON SHEET <u>5</u> OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED TOMBALL ISD TRACT ON JUERGEN ROAD AND MUESCHKE ROAD		SIGNATURE DATE FRANK E. BROOKS
<u>V. HCFCD STANDARD DETAILS</u> : SEE SHEET <u>16, 18 – 20</u> OF THESE PLANS. <u>VI. HCFCD ACCESS PLAN</u> : SEE SHEET <u>13</u> OF THESE PLANS.	TOTAL DISCHARGE = 354.6 CFS		
VII. REFER TO THE FOLLOWING PLAN SHEETS: 6-13, 15	NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE		NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.
FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFCD POLICY, CRITERIA, & PROCEDURE MANUAL	IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.	DATE	-40022x-
(i.e., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFCD, PUBLIC, TXDOT, ETC.)			
	HARRIS COUNTY		
	FLOOD CONTROL DISTRICT		
VERSION 1.0 OCTOBER 2019	REVIEW SHEET	HARRIS	s county flood control project no. 2303300094 SHEET NUMBER 3 OF 2

VERSION 1.0 OCTOBER 2019

SHEET NUMBER 3 of 24

HARRIS COUNTY FLOOD CONTROL PROJECT NO. 2303300094

- S. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER AND STORM DRAINAGE LINES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING, REFERENCED ABOVE, AT NO ADDITIONAL COST.
- 4. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING IN WRITING PRIOR TO COMMENCING CONSTRUCTION.
- 5. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- 6. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.

GENERAL CONSTRUCTION NOTES

WASTEWATER COLLECTION SYSTEMS, WATER, PAVING, TRAFFIC SIGNALS AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CITY DOCUMENTS. THESE DOCUMENTS ARE "STANDARD CONSTRUCTION SPECIFICATIONS (MOST RECENT ISSUE OCTOBER 2002) WITH ALL SUBSEQUENT AMENDMENTS ADDED THERETO UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN MUST AGREE WITH THE MINIMUM STANDARDS ESTABLISHED IN THE LATEST ISSUE OF THE "INFRASTRUCTURE DESIGN MANUAL" (MOST RECENT ISSUE OCTOBER 2002)

P. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO PAVING, WATER LINES, WASTEWATER COLLECTION SYSTEMS, STORM SEWER, AND TRAFFIC SIGNALS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH CURRENT EDITIONS OF CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS, DESIGN DETAILS AND DESIGN MANUALS. REPAIRS SHALL BE AT NO COST TO THE PUBLIC.

3. CONTRACTOR SHALL NOTIFY HARRIS COUNTY ENGINEERING DEPARTMENT FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT TELEPHONE NUMBER (713-274-3823)

4. CONTRACTOR SHALL NOTIFY THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 FOR LOCATION OF EXISTING FACILITIES THAT MAY NOT BE SHOWN ON THE PLANS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

5. CONTRACTOR SHALL OBTAIN ALL DEVELOPMENT, RIGHT-OF-WAY AND CONSTRUCTION PERMITS REQUIRED BY THE REGULATIONS OF HARRIS COUNTY, TEXAS AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.

6. CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND TEXAS STATE LAW CONCERNING TRENCH SAFETY SYSTEMS.

7. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO LOCATE AND MAINTAIN THE EXISTING UNDERGROUND UTILITIES.

8. ALIGNMENT, CENTERLINE CURVE DATA AND STATIONING TO BE VERIFIED FROM APPROVED SUBDIVISION PLAT OR APPROVED PLAT OR RECORDED INSTRUMENT FOR OFFSITE EASEMENTS.

HARRIS COUNTY PERMIT NOTES

- 1. PAVING SHALL BE IN ACCORDANCE WITH THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE" AND/OR AMENDMENTS OF SAME.
- 2. GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE
- 3. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO STARTING CONSTRUCTION.
- 4. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY'S ROAD RIGHTS-OF-WAY.
- 5. "AUTHORIZATION NOTICE ISSUED BY HARRIS COUNTY PUBLIC INFRASTRUCTURE ENGINEERING DEPARTMENT PERMIT OFFICE REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES
- WITHIN HARRIS COUNTY RIGHT-OF-WAY." CONTACT HARRIS COUNTY PERMIT OFFICE (713-274-3931)

 6. "AS PER FIRM PANEL NO. 48201CO 605M , DATED November 15, 2019, THIS TRACT (IS NOT), IS,
- IS PARTIALLY) WITHIN THE 100—YEAR FLOOD PLAIN, AND THE NEAREST APPLICABLE 100—YEAR FLOOD PLAIN ELEVATION IS _______ (1973 DATUM ADJUSTMENT)."

7. CULVERT TO BE SIZED AND GRADE CONFIRMED BY HARRIS COUNTY PRECINCT NUMBER

SWPPP CONSTRUCTION NOTES

- I. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- 2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
- 3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
- 4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- 5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN(14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

 AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. STRUCTURAL CONTROL MEASURES.
- 6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK

LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

STANDARD HCFCD NOTES FOR CONSTRUCTION DRAWINGS

1. OBTAIN AND COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL PERMITS AND APPROVALS, WITH ASSISTANCE FROM ENGINEER, IF NECESSARY. OBTAIN PERMIT (CERTIFICATION) FROM HARRIS COUNTY ENGINEER TO ENTER HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT—OF—WAY.

2. NOTIFY THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S DEVELOPMENT COORDINATION AND INSPECTION DEPARTMENT IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. SUBMIT THE HCFCD 48 HOUR PRE—CONSTRUCTION NOTIFICATION FORM, A COPY OF THE APPROVED CONSTRUCTION DRAWINGS, AND A COPY OF THE CORPS OF ENGINEERS INDIVIDUAL SECTION 404 PERMIT OR COMPLIANCE WITH NATIONWIDE PERMIT, IF APPLICABLE, TO HCFCD, 9900 NORTHWEST FREEWAY, HOUSTON, TEXAS 77092, ATTN: DEVELOPMENT COORDINATION AND INSPECTION DEPT. BY HAND DELIVERY, BY EMAIL DCID@HCFCD.ORG, OR FAX TO 713—684—4129 (FAX NUMBER).

3. ENGINEER SHALL SUBMIT CERTIFICATION LETTER AND RECORD DRAWINGS TO THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S DEVELOPMENT COORDINATION AND INSPECTION SECTION REQUESTING INSPECTION OF ITEMS CONSTRUCTED IN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY. PRIOR TO REQUESTING INSPECTION, THE DRAINAGE RIGHT-OF-WAY AND/OR EASEMENTS SHALL BE STAKED AND FLAGGED.

4. PROTECT, MAINTAIN, AND RESTORE EXISTING BACKSLOPE DRAINAGE SYSTEMS.

5. BACKSLOPE SWALE AND INTERCEPTOR STRUCTURE ELEVATIONS AND LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. FINAL ELEVATIONS AND LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

6. ESTABLISH TURF GRASS ON ALL DISTURBED AREAS WITHIN THE CHANNEL OR DETENTION RIGHT-OF-WAY, EXCEPT THE CHANNEL BOTTOM AND WHERE STRUCTURAL EROSION MEASURES ARE USED. MINIMUM ACCEPTANCE CRITERIA ARE 75% COVERAGE OF LIVE BERMUDA GRASS AND NO EROSION OR RILLS DEFPER THAN 4"

7. PERFORM ALL ACTIVITIES WITHIN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY IN ACCORDANCE WITH THE MOST RECENT HARRIS COUNTY FLOOD CONTROL DISTRICT STANDARD SPECIFICATIONS BOOK.

8. EXCAVATE CHANNEL FLOWLINE TO DESIGN ELEVATION AS SHOWN ON PLANS AND DOWNSTREAM, AS NECESSARY, TO ENSURE NO WATER REMAINS IN THE FACILITY (STORM SEWER, LATERAL CHANNEL, OR DRY BOTTOM DETENTION BASIN) DURING NORMAL WATER SURFACE CONDITIONS IN THE CHANNEL, SO THE FACILITY WILL FUNCTION AS INTENDED. FOR WET BOTTOM DETENTION BASINS, ENSURE NO WATER IS ABOVE THE DESIGN LEVEL IN THE WET BOTTOM DURING NORMAL WATER SURFACE CONDITIONS IN THE CHANNEL.

9. MAINTAIN FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORE CHANNEL TO ORIGINAL CONDITION.

10. REMOVE ALL EXCAVATED MATERIAL FROM THE HARRIS COUNTY FLOOD CONTROL DISTRICT OR DRAINAGE RIGHT-OF-WAY. NO FILL IS TO BE PLACED WITHIN A DESIGNATED FLOOD PLAIN AREA WITHOUT FIRST OBTAINING A FILL PERMIT FROM THE APPROPRIATE JURISDICTIONAL AUTHORITY.

PRIVATE UTILITY NOTES

CAUTION: UNDERGROUND GAS FACILITIES

LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

• WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

 WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

• FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659—3552 OR (713) 207—4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207—2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY

GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

AT&T TEXAS / SWBT FACILITIES

- 1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- 2. THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- 3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
- 4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
- 5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN THE AREA. FOLLOW THE DIRECT BURIED CABLE PROCEDURES TO LOCATE THE AT&T TEXAS/SWBT DIRECT BURIED CABLES AS INDICATED IN THE AT&T TEXAS RESEARCH AND SIGNATURE PROCESS FOR AT&T TEXAS/SWBT FACILITIES.
- PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)567-4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATION NEAR OUR AT&T TEXAS/SWBT FACILITIES.

STORM SEWER CONSTRUCTION NOTES

- ON SITE STORM SEWERS 12-INCH DIAMETER AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE (PER AASHTO M-294, TYPE S, HANCOR SURE-LOK F477 PIPE, OR APPROVED EQUAL,) UNLESS OTHERWISE SHOWN ON PLANS. PRODUCT MUST HAVE GASKET JOINTS.
- 2. ON SITE STORM SEWERS 10-INCH DIAMETER AND LESS SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS, ASTM D3034 AND HAVING A S.D.R. OF 26, UNLESS OTHERWISE SHOWN ON PLANS.
- 3. ANY CONCRETE PIPE USED ON THIS PROJECT SHALL BE REINFORCED CONCRETE MEETING ASTM C-76 CLASS III, AND HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. CONCRETE PIPE IS ONLY TO BE USED WHERE REQUIRED IN PUBLIC RIGHT-OF-WAY AND/OR AT TIES TO PUBLIC STORM SEWER SYSTEMS. BEDDING BACKFILLING AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS.
- 4. THE CONTRACTOR SHALL USE PRECAST 4000 PSI REINFORCED CONCRETE STORM SEWER MANHOLES AND INLETS. INVERT SHALL BE INSTALLED WITH NON—SHRINK GROUT AND SLOPED TO ENSURE POSITIVE DRAINAGE FROM INLET TO STORM SEWER LINE. WITH SMOOTH FINISH AND NO STANDING WATER IN INLET. BRICK MANHOLES AND/OR INLETS MAY BE USED AS APPROVED BY THE ENGINEER WHEN SETTING STRUCTURES ON EXISTING UTILITY LINE. BRICK STRUCTURES MUST BE MORTARED INSIDE AND OUT. COORDINATE EACH INCIDENT WITH
- 5. ALL INLETS, MANHOLES, CLEANOUTS, AND HEADWALLS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12" ON BOTTOM OF STRUCTURE AND 12" AROUND OUTSIDE OF STRUCTURE.
- 6. NO CORNER CONNECTIONS WILL BE ALLOWED TO ANY INLETS, JUNCTION BOXES OR BOX
- 7. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF INLETS AND MANHOLES. ALL PIPE PENETRATIONS SHALL BE GROUTED INSIDE AND OUT WITH NON-SHRINK GROUT.
- 8. CONCRETE FOR DRAINAGE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
- 9. CULVERT CROSSINGS LOCATED WITHIN 30 FEET OF THE RIGHT-OF-WAY SHALL HAVE MINIMUM 6:1 SLOPING ENDS KNOWN AS SAFETY END TREATMENTS (SETS). THE CULVERT SHALL HAVE SUFFICIENT LENGTH TO ALLOW THE 6:1 SLOPE TO BE ACHIEVED FROM THE EDGE OF PAVEMENT TO THE FLOWLINE AT THE END OF THE SET.
- CULVERTS LARGER THAN SINGLE 30-INCH DIAMETER (OR LARGER THAN MULTIPLE 24- INCH DIAMETER CULVERTS) SHALL REQUIRE SAFETY PIPE RUNNERS.
- 11. CONTRACTOR SHALL FLUSH AND CLEAN ALL STORM SEWER LINES AND STRUCTURES PRIOR TO ACCEPTANCE.
- 12. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING.
- 13. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
- 14. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE
- BUILDING PLUMBING. NO CEMENT GROUT MATERIALS ARE PERMITTED.

 15. THE CONTRACTOR IS TO INSTALL EACH CLEANOUT SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF A "WYE" BRANCH AND

END-OF-THE-LINE CLEANOUTS, CLEANOUTS WILL BE INSTALLED VERTICALLY ABOVE THE

- FLOW LINE OF THE PIPE. CLEANOUTS WILL BE MADE WITH AIR—TIGHT MECHANICAL PLUG.

 6. ALL STORM SEWER MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE SET AT FINISH
- 17. ALL INLETS AND JUNCTION BOXES LOCATED OUTSIDE OF PAVED AREAS SHALL HAVE A PRE-CAST TOP WITH CAST-IN FRAME.

GRADE WITH CONCRETE COLLAR UNLESS OTHERWISE NOTED ON PLANS.

- 18. CONTRACTOR SHALL GROUT ALL JOINTS INSIDE OF ALL INLETS, JUNCTION BOXES, AND MANHOLES WITH NON-SHRINK GROUT.
- 19. ALL TYPE "A" GRATE INLETS SHALL HAVE SLOTTED GRATE TOPS (MODEL V-4880-3).
- 20. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON OF SAND WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LIFTS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD
- 11. CONTRACTOR IS RESPONSIBLE FOR PUMPING OUT STORM WATER QUALITY UNITS AND PROVIDING THE ENGINEER WITH A MANIFEST STATING THAT THE SILT AND DEBRIS WAS DISPOSED OF IN A LEGAL MANNER. MANIFEST AND TIME STAMPED PICTURES OF THE CLEAN UNITS MUST BE PROVIDED PRIOR TO ENGINEER SUBMITTING THE STORM WATER QUALITY AS—BUILT CERTIFICATE. CONTRACTOR TO NOTIFY ENGINEER WHEN PUMP OUT WILL TAKE PLACE.

PRIVATE UTILITY NOTES

CAUTION: <u>UNDERGROUND GAS FACILITIES</u>

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
 WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING. FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659–2111 OR (713) 207–4200.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

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- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.
- PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207–2222.

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WARNING: UNDERGROUND ELECTRICAL UTILITIES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF

CONSTRUCTION.
THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.
THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 AND TEXAS ONE CALL AT 1-800-245-4545,

FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
ALL PROPOSED FACILITIES SHALL MAINTAIN 12"CLEAR FROM ALL EXISTING UTILITIES

AT&T TEXAS / SWBT FACILITIES

- 1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- 2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- 3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
- 4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
- 5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
- 6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER KEVIN RAY (713) 614-1983 OR E-MAIL HIM AT KR7896@ATT.COM IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBT FACILITIES.

BROOKS & SPARKS, INC

CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
21020 PARK ROW PHONE: (281) 578-9595

FAX: (281) 578-9686

FLOODPLAIN INFORMATION:

KATY. TX 77449

ACCORDING TO F.I.R.M. MAP NO. 48201C0215L (COMMUNITY-PANEL NO. 4802870215L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREAS DESIGNATED A ZONE "X" UNSHADED, DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD. ZONE X SHADED. AREAS OF 0.2% ANNUAL CHANCE FLOOD AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE: AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. ZONE AE. BASE FLOOD ELEVATIONS DETERMINED. AND FLOODWAY. THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST B KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

REFERENCE BENCHMARK:

RM111050 — ALUMINUM ROD WITH LOGO CAP STAMPED "111050" LOCATED ON THE NORTH SIDE OF BAUER-HOCKLEY ROAD ±75' EAST OF ITS INTERSECTION WITH ANGELI DRIVE AND ±120' WESTOF A POWER POLE IN KEY MAP 326B IN THE CYPRESS CREEK WATERSHED.

ELEVATION = 176.30' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "A" - BOX CUT ON "BB" INLET LOCATED ON THE EAST SIDE OF MUESCHKE ROAD ± 50 ' SOUTH OF THE MOST NORTHERLY SOUTHWEST CORNER OF THE SUBJECT TRACT. ELEVATION = 169.64'

NOTE: THE LOCATIONS OF THE PRIVATE UTILITY LINES ARI SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE ALSO ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES INCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UTILITIES.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713–207–222

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE

YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL Y

VERIFICATION OF PRIVATE UTILITY LINES

OBLIGATION TO CALL 811.

CenterPoint Energy/Natural Gas Facilities Verification ONLY. (This Signature verifies that you have shown CNP Natural Gas lines correctly. Not to be used for conflict verification.) (Gas service lines are not shown.)

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies that existin underground facilities. Not to be used for conflict verification.) Signature Valid for six months.

APPROVED FOR AT8T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES ONLY,
Signature valid for one year.



TOMBALL ISD
L109-00-00 TO SERVE
JUERGEN ROAD EDUCATIONAL
CAMPUS

GENERAL NOTES

NO.	DATE		REVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	DESIGNED BY: CSM		APPROVED BY: FEB	
PRO	DJECT N	D. 866-0018	SEPTEMBER 2025	

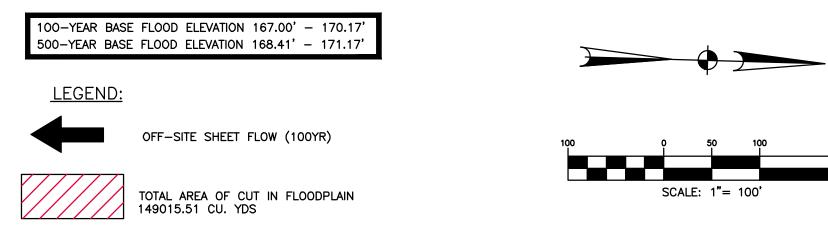
SHEET 4 OF 24

SCALE: N/A

18 Sep 2025 3:21PM robertv F:\project\BROOK_SP\Tomball ISD\866018-Juergen Tract\Civil\HCFCD CHANNEL\866-00 Includes Xref(s): 866018-X-1109 -BRD.dwg: 866018-X-1109 -SFALdwg

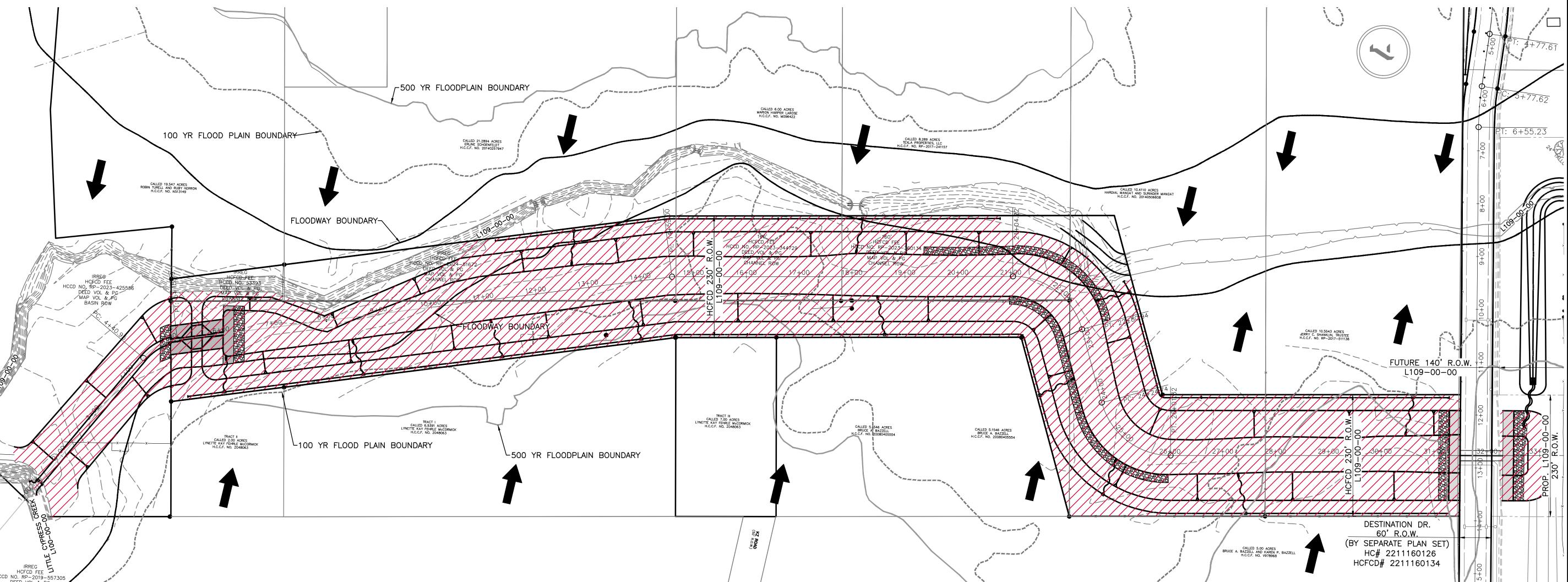
Volume Summary 2d Area Name | Type (Sq. Ft.) (Cu. Yd.) (Cu. Yd.) (Cu. Yd.) Factor | Factor | Area1 | full 1.000 | 1.150 | 617681.47 | 144205.74* 144205.74 | 0.00* 4809.77* Area2 full 1.150 | 16782.63 4809.77 1.000

Totals				
	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	634464.10	149015.51	0.00*	149015.51*
	* Valu	ie adjusted by o	cut or fill factor	r other than 1.0



NOTES:

- 1. ALL EXCAVATION TO BE DISPOSED OF OFFSITE.
- 2. MITIGATION VOLUME IS NOT BEING PROVIDED.



	Project Name: Tomball ISD Tract on Ju Road and Mueschke Road	ergen	Date: 08/30/2022		
	Detention Basin Service Area		161.7 acres		
	Offsite Drainage Area		11	5.5 acres	
	Storm Event	50% (2-Yr)	10% (10-Yr)	1% (100-Yr)	
	Post Development Inflow	122.7	207.0	349.6	
Flow (cfs)	Maximum Allowable Outflow (pre-development peak flow)	N/A	N/A	N/A	
음	Maximum Outflow Provided (peak flow from the basin)	117.0	198.2	318.8	
Œ.	Lowest Natural or Finished Ground N/A Elevation Estimate				
Elevations (NAVD 88, 2001 Adj.	Maximum Allowable Water Surface	172.8			
Elevations VD 88, 2001	Based on:	2018 LiDAR			
(NA)	Design Water Surface Elevation	171.8	171.8	171.8	
	Water Surface Elevation Calculated	164.7	166.4	169.9	
e G	Minimum Storage Required (ac-ft)	N/A	N/A	N/A	
Storage	Detention Storage Provided (ac-ft)	12.8	20.2	40.5	
<i>S</i>	Storage Rate Provided (ac-ft/acre)	0.05	0.07	0.15	
é	Restrictor Size, if applicable (ft or ft²)	N/A			
nctui	Outflow Pipe Size (ft or ft²)	Staged: 21	ft (low) and 7'	x4' (high)	
Outflow Structure	Outflow Velocity into Channel (ft/second)	5.9	6.6	10.5	
Outfle	Weir Description, if applicable (type, size, elevation, etc.)		N/A		
	Drain Time – 1% only (hours)		12 hours		
	Emergency Overflow (type, size, elevation, etc.)	Broa	d-Crested W	eir ¹	
	¹ Details of emergency overflow will be de-	termined durii	ng design pha	ise.	

Table B-2: Detention Summary Table for North Pond 2

	Project Name: Tomball ISD Tract on Ju Road and Mueschke Road	iergen	Date: 08/30	/2022	
	Detention Basin Service Area		7	9.9 acres	
	Offsite Drainage Area			0 acres	
	Storm Event	50% (2-Yr)	10% (10-Yr)	1% (100-Yr	
70.7	Post Development Inflow	49.0	75.2	122.3	
Flow (cfs)	Maximum Allowable Outflow (pre-development peak flow)	N/A	N/A	N/A	
운	Maximum Outflow Provided (peak flow from the basin)	10.6	15.6	23.7	
Elevations (NAVD 88, 2001 Adj.)	Lowest Natural or Finished Ground Elevation Estimate	N/A			
	Maximum Allowable Water Surface	174.6			
	Based on:	2018 LiDAR			
(NA)	Design Water Surface Elevation	173.6	173.6	173.6	
	Water Surface Elevation Calculated	167.0	168.8	173.0	
<u>e</u>	Minimum Storage Required (ac-ft)	N/A	N/A	N/A	
Storage	Detention Storage Provided (ac-ft)	12.0	21.9	48.3	
<i>5</i> 5	Storage Rate Provided (ac-ft/acre)	0.15	0.27	0.60	
ф	Restrictor Size, if applicable (ft or ft²)		N/A		
ıctnı	Outflow Pipe Size (ft or ft²)		2 ft		
Outflow Structure	Outflow Velocity into Channel (ft/second)	3.3	4.9	7.4	
Outfi	Weir Description, if applicable (type, size, elevation, etc.)	N/A			
	Drain Time – 1% only (hours)		42 hours		
	Emergency Overflow (type, size, elevation, etc.)		N/A		

Table B-1: Detention Summary Table for North Pond 1

	Project Name: Tomball ISD Tract on Ju Road and Mueschke Road	iergen	Date: 08/30/2022		
	Detention Basin Service Area		7	9.9 acres	
	Offsite Drainage Area			0 acres	
	Storm Event	50% (2-Yr)	10% (10-Yr)	1% (100-Yr)	
-	Post Development Inflow	49.0	75.2	122.3	
Flow (cfs)	Maximum Allowable Outflow (pre-development peak flow)	N/A	N/A	N/A	
음	Maximum Outflow Provided (peak flow from the basin)	14.3	18.6	16.4	
<u>:</u> :	Lowest Natural or Finished Ground Elevation Estimate	N/A			
Elevations (NAVD 88, 2001 Adj.)	Maximum Allowable Water Surface	176.8			
	Based on:	2018 LiDAR			
(NA)	Design Water Surface Elevation	175.8	175.8	175.8	
	Water Surface Elevation Calculated	168.6	170.1	174.1	
<u>e</u>	Minimum Storage Required (ac-ft)	N/A	N/A	N/A	
Storage	Detention Storage Provided (ac-ft)	6.2	12.0	29.9	
<u></u> 22	Storage Rate Provided (ac-ft/acre)	0.08	0.15	0.37	
φ	Restrictor Size, if applicable (ft or ft²)		N/A		
rctui	Outflow Pipe Size (ft or ft²)		2 ft		
Outflow Structure	Outflow Velocity into Channel (ft/second)	5.2	5.9	5.3	
Outfle	Weir Description, if applicable (type, size, elevation, etc.)	N/A			
	Drain Time – 1% only (hours)		30 hours		
	Emergency Overflow (type, size, elevation, etc.)		N/A		

*CONSTRUCTION OF FEATURES WITHIN FUTURE HARRIS COUNTY FLOOD CONTROL DISTRICT ROW:

A 48-HOUR PRE-CONSTRUCTION NOTICE MUST BE PROVIDED TO THE HARRIS COUNTY FLOOD CONTROL DISTRICT (HCFCD) IN ORDER TO SCHEDULE APPLICABLE INSPECTIONS DURING CONSTRUCTION OF THE PROPOSED FEATURE. FAILURÉ TO PROVIDE THIS NOTIFICATION MAY RESULT IN THE FACILITY NOT BEING ACCEPTED FOR HCFCD MAINTENANCE.

THE 48-HOUR PRE-CONSTRUCTION NOTIFICATION FORM TO HCFCD AT DCID@HCFCD.ORG.

PLEASE CONTACT THE HCFCD DEVELOPMENT & CONSTRUCTION INSPECTIONS DEPARTMENT (DCID) AT DCID@HCFCD.ORG FOR THE LATEST FORM.

■■ BROOKS & SPARKS, INC. CONSULTING ENGINEERING

TEXAS REGISTERED ENGINEERING FIRM F-880 PHONE: (281) 578-9595 FAX: (281) 578-9686 21020 PARK ROW KATY, TX 77449

FLOODPLAIN INFORMATION:

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> UTILITY ONE CALL CONTRACTOR TO CALL BEFORE DIGGING !!!! PHONE:

HOUSTON)

HOUSTON (713) 223-4567 (STATEWIDE OUTSIDE -(800)-545-6005

SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE ALSO ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES INCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UTILITIES.

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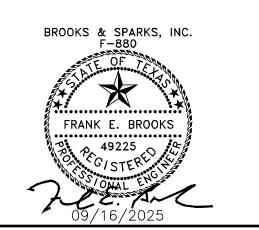
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TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

PROJECT LAYOUT

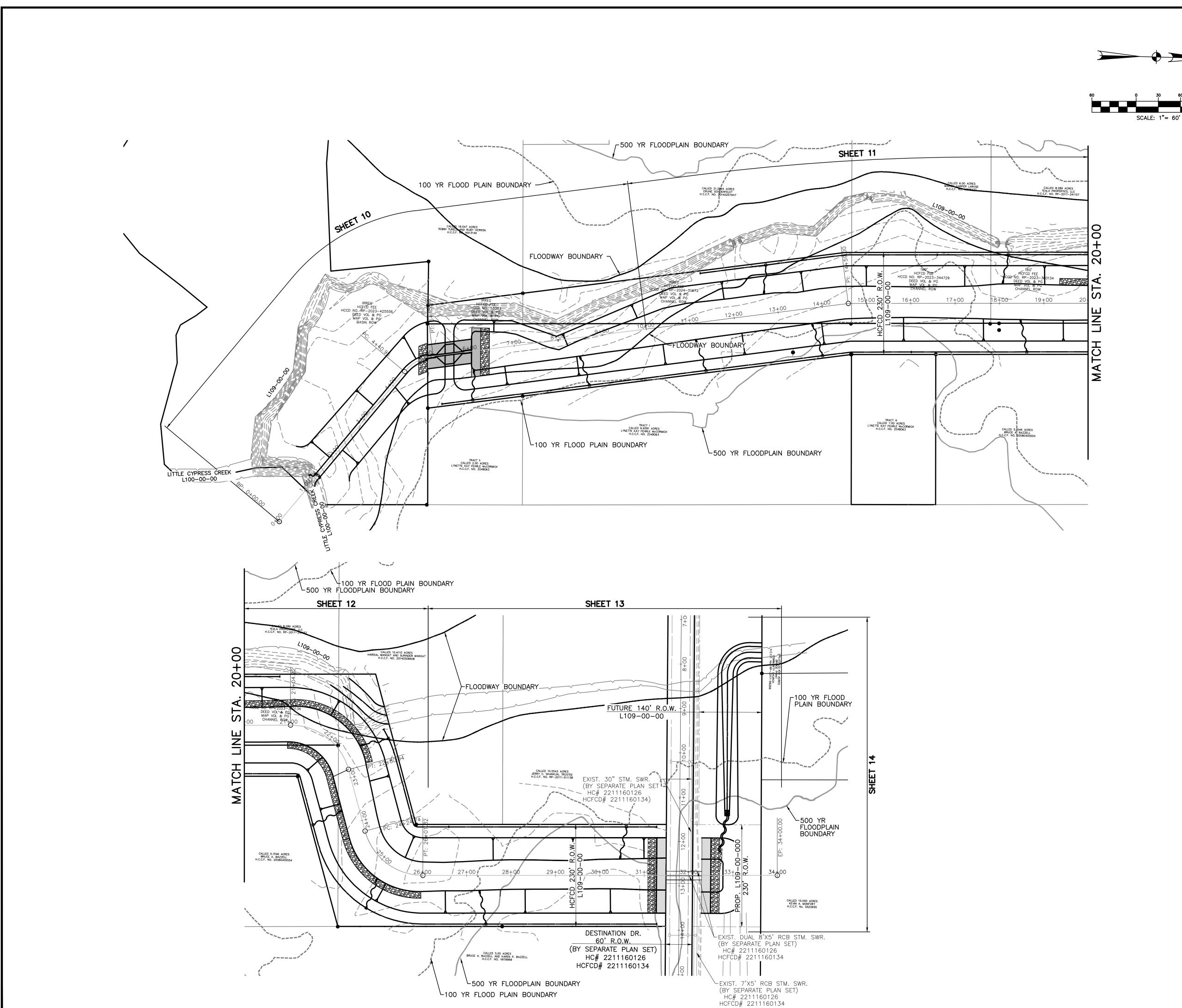
NO.	DATE		REVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	DESIGNED BY: CSM		APPROVED BY: FEB	

SEPTEMBER 2025

SHEET 5 OF 24

PROJECT NO. 866-0018

SCALE: 1" = 100'





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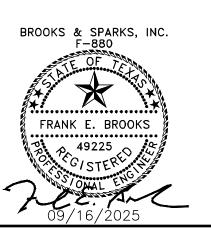
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TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

SHEET INDEX

SHEET 6 OF 24

NO.	DATE	RE	EVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	IGNED E	BY: CSM	APPROVED BY: FEB	
PRO	DJECT NO	D. 866-0018	SEPTEMBER 2025	

SCALE: 1" = 100'

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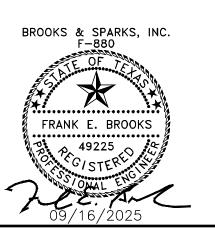
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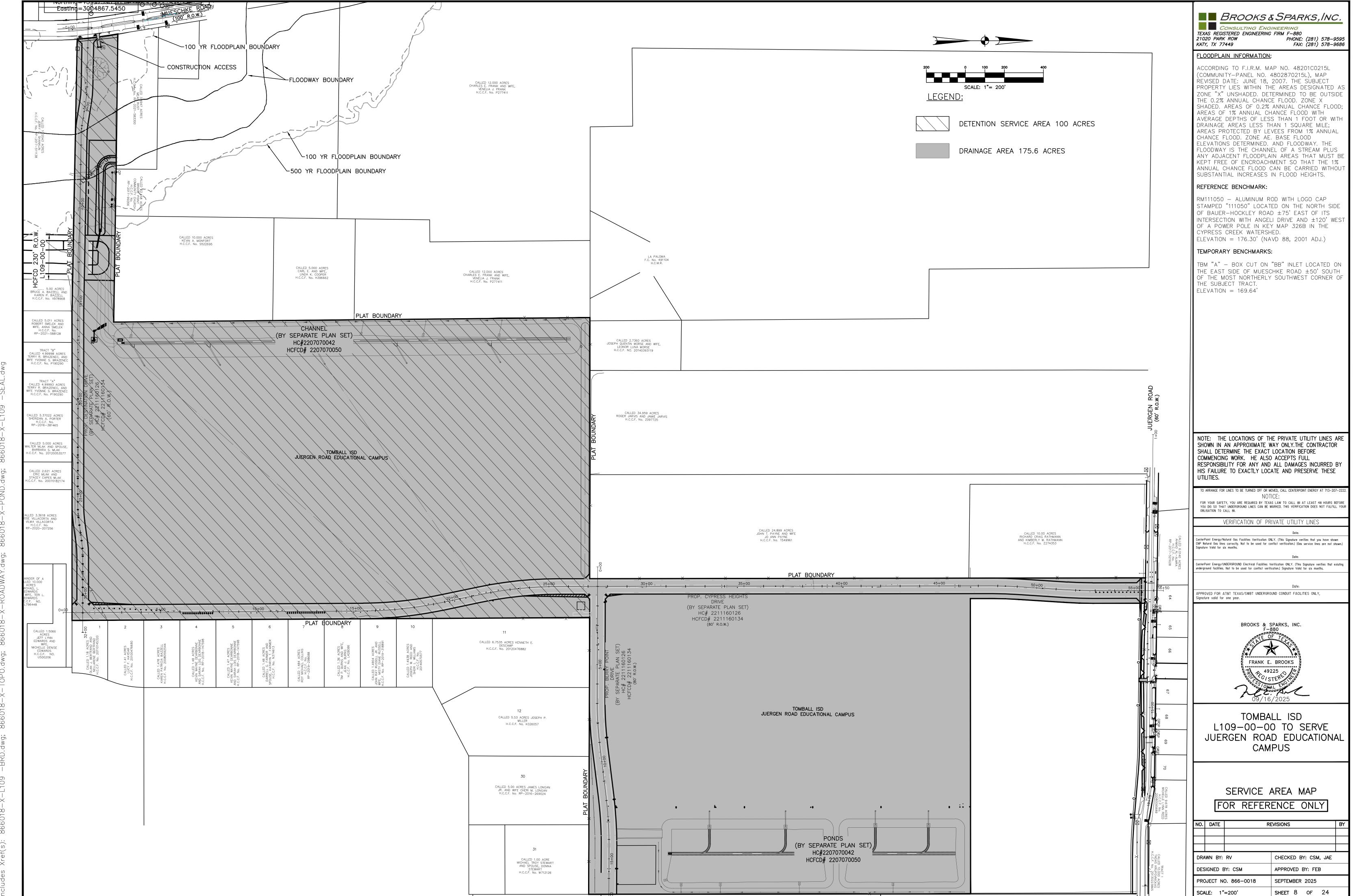


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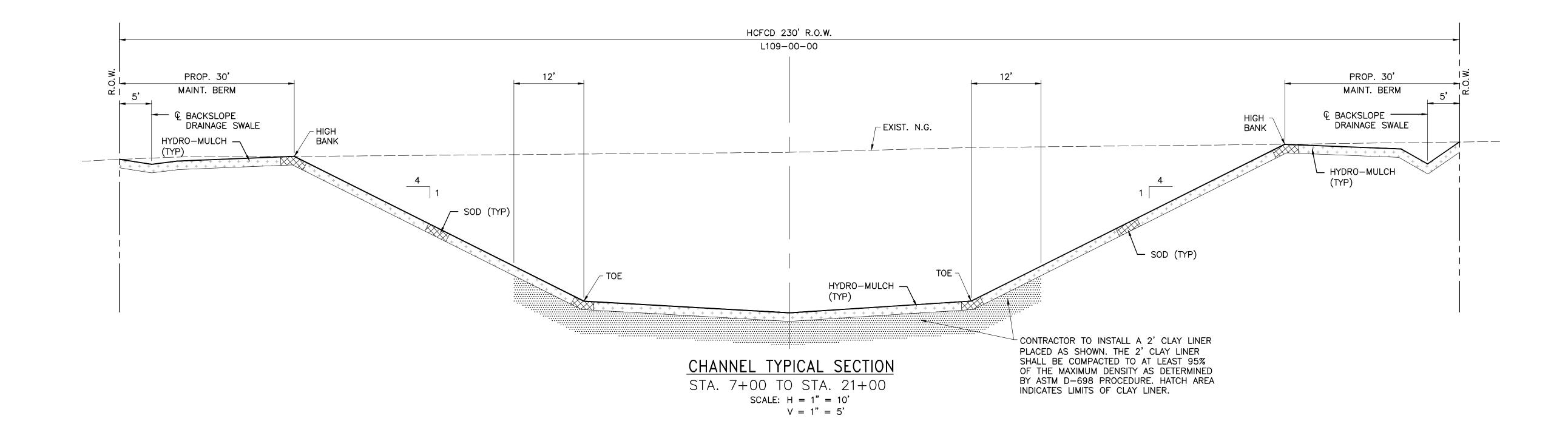
DEMOLITION PLAN

NO.	DATE	F	REVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	DESIGNED BY: CSM		APPROVED BY: FEB	
PRO	DJECT N	0. 866–0018	SEPTEMBER 2025	

SCALE: 1" = 100' SHEET 7 OF 24



)0K_SP\Tomball ISD\866018—Juergen Tract\Civil\HCFCD CHANNEL\8 866—0018 — L109— SAM — HP—PagewideXL—24x36.dwg): 866018—X—1109 —BRD dwa: 866018—X—TOPO dwa: 866018—X—ROADWAY.dwa: 866018—X—POND dwa: 866018—X—1109 —SFAI



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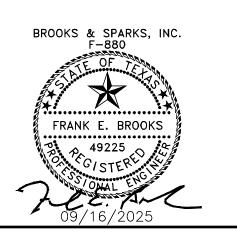
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TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

TYPICAL SECTIONS

NO.	DATE	F	REVISIONS	BY
DD.4	WAL DV	57	OUEOKED DV. OCH JAE	
DRA	DRAWN BY: RV		CHECKED BY: CSM, JAE	
DES	DESIGNED BY: CSM		APPROVED BY: FEB	
PROJECT NO. 866-0018		0. 866-0018	SEPTEMBER 2025	
SCA	LE: AS	SHOWN	SHEET 9 OF 24	



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BROOKS & SPARKS, INC. F-880 FRANK E. BROOKS 49225

TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

L109-00-00 PLAN AND PROFILE STA. 10+00 TO STA. 20+00

NO.	DATE		REVISIONS			
DRA	WN BY:	RV	CHECKED BY: CSM, JAE			
DESIGNED BY: CSM			APPROVED BY: FEB			
PRC	JECT N	0. 866-0018	SEPTEMBER 2025			
	11.	4" 40'				

SHEET 11 OF 24

<u>PRÓP. BACKSLOPE SWALÊ</u>

100 YR FLOOD PLAIN-

DO NOT DISTURB EXISTING DITCH

BOUNDARY

■■ BROOKS & SPARKS, INC. CONSULTING ENGINEERING TEXAS REGISTERED ENGINEERING FIRM F-880

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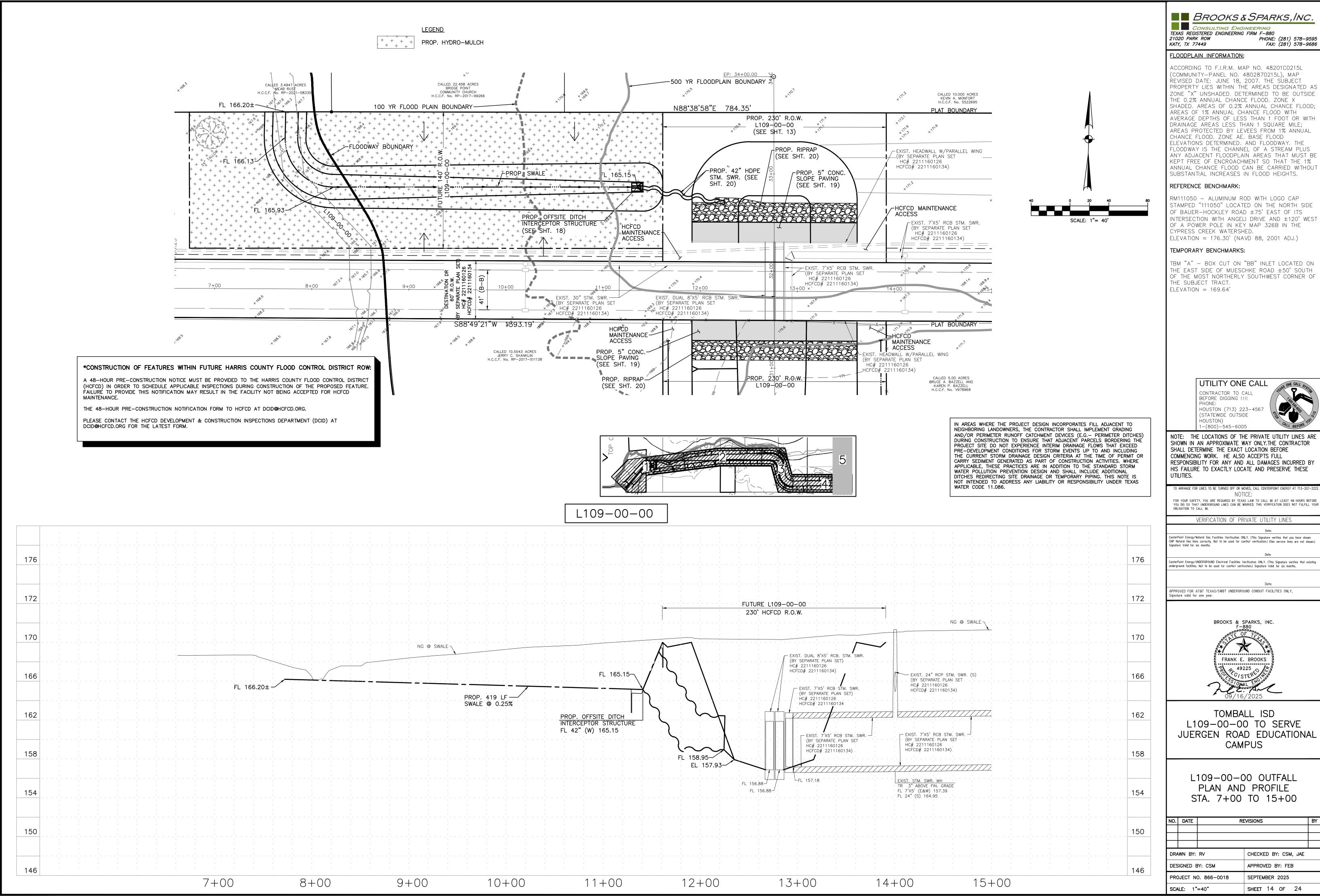
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NO.	DATE	RI	EVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	IGNED E	BY: CSM	APPROVED BY: FEB	
PRO	DJECT NO	0. 866-0018	SEPTEMBER 2025	



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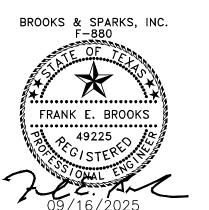
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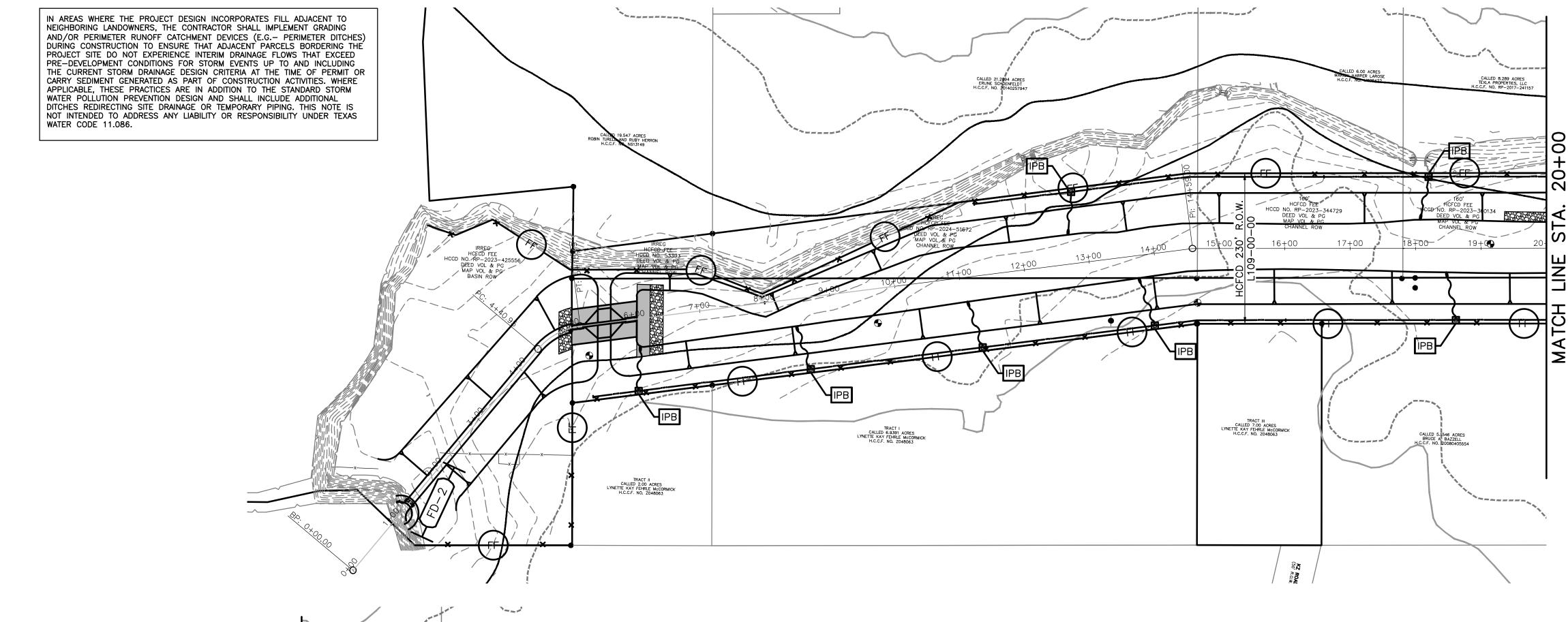
L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL

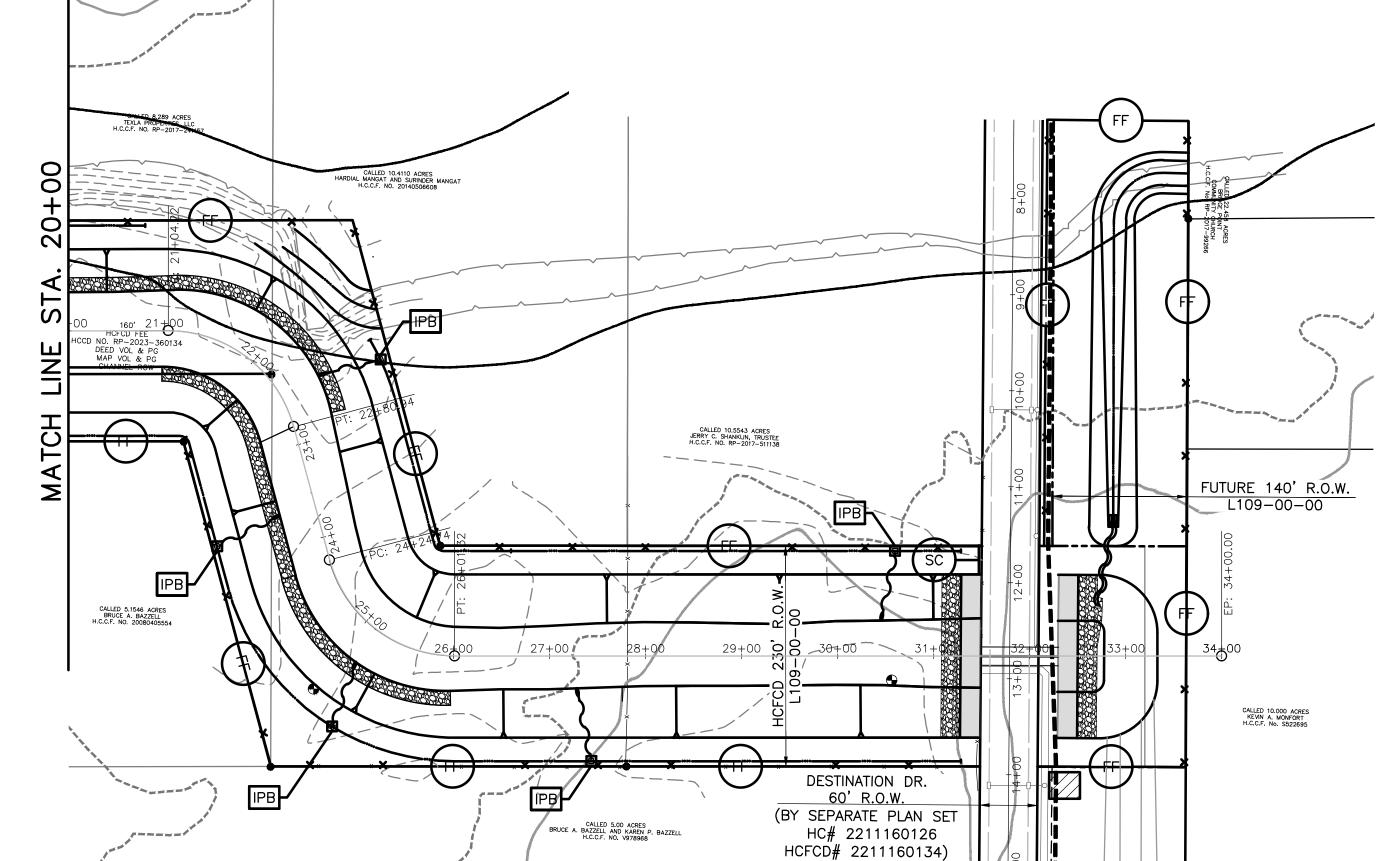
> L109-00-00 OUTFALL PLAN AND PROFILE

NO.	DATE		REVISIONS	B)
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	IGNED E	BY: CSM	APPROVED BY: FEB	
PRO	JECT NO	0. 866-0018	SEPTEMBER 2025	









LEGEND:

PROPOSED INLET

FABRIC FENCE (SILT FENCE)

STABILIZED CONSTRUCTION ACCESS

INLET PROTECTION BARRIER

CONCRETE WASHOUT PIT

NOTES:

- 1. STOCKPILE AND ALL DISTURBED AREAS TO BE HYDRO-MULCH SEEDED (TYP.)
- 2. CONTRACTOR TO FINAL GRADE STOCKPILE WITH MAX 5:1 SIDE SLOPES. TOP OF STOCKPILE TO BE GRADED TO DRAIN AT A MIN. OF 2% CROSS SLOPE



PHONE: (281) 578-9595 FAX: (281) 578-9686 21020 PARK ROW KATY, TX 77449

FLOODPLAIN INFORMATION:

ACCORDING TO F.I.R.M. MAP NO. 48201C0215L (COMMUNITY-PANEL NO. 4802870215L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREAS DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD. ZONE X SHADED. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. ZONE AE. BASE FLOOD ELEVATIONS DETERMINED. AND FLOODWAY. THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

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> UTILITY ONE CALL CONTRACTOR TO CALL BEFORE DIGGING !!!! PHONE: HOUSTON (713) 223-4567 (STATEWIDE OUTSIDE

HOUSTON)

OBLIGATION TO CALL 811.

-(800)-545-6005



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PPROVED FOR AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES ONLY, ignature valid for one year.

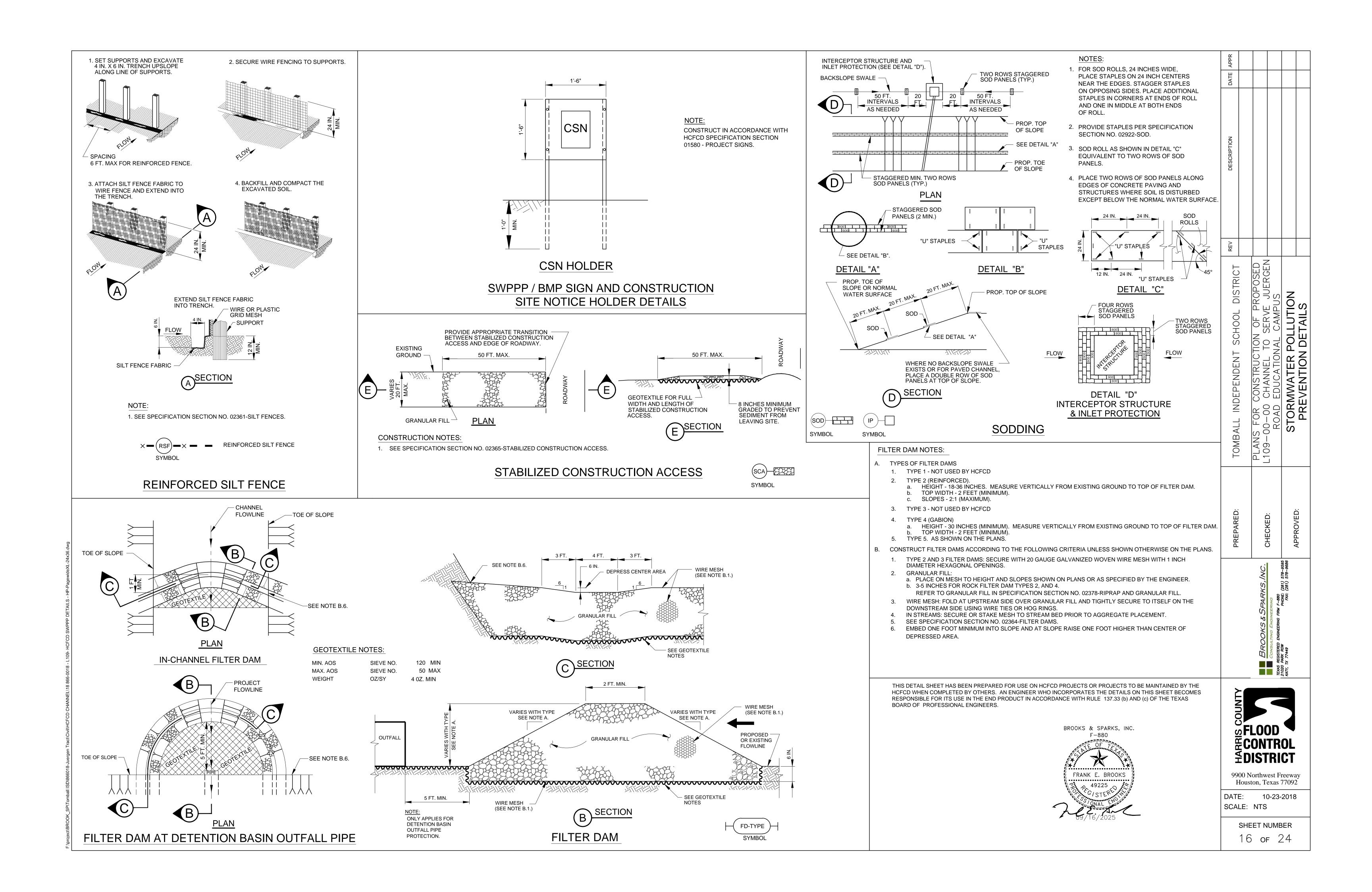


TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

STORM POLLUTION PREVENTION PLAN

NO.	DATE		REVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	SIGNED E	BY: CSM	APPROVED BY: FEB	
PRO	DJECT N	0. 866-0018	SEPTEMBER 2025	

SCALE: 1" = 100' SHEET 15 OF 24



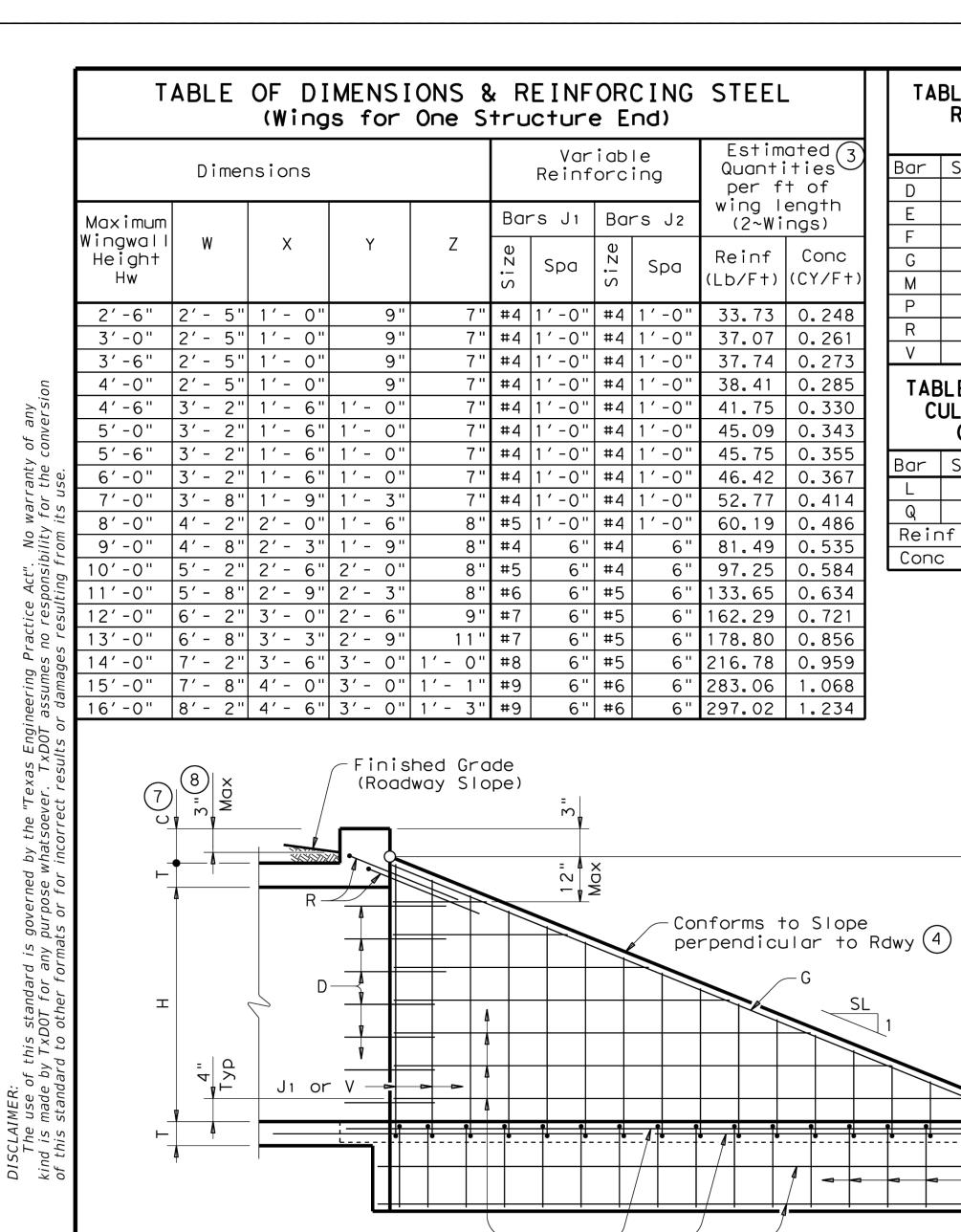


TABLE OF WINGWALL REINFORCING (2~Wings) Bar Size No. Spa D #5 ~ | 1'-0" #4 ~ | 1'-0" #4 1′-0" #6 4 ~ #4 4 #4 ~ | 1'-0" #5 6 ~ | 1'-0" #4 | TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES Bar | Size | No. | Spa #4 ~ | 1'-6" #4 | 1 | Reinf (Lb/F+) | 2.45 Conc (CY/Ft) 0.037

WING DIMENSION CALCULATIONS: Formulas: (All values are in Feet) Hw = H + T + C - 0.250'

Lw = (Hw - 0.333') (SL) For Cast-in-place culverts:

L+w = (N) (S) + (N+1) (U)

For Precast culverts: L+w = (N) (2U + S) + (N-1) (0.5')

Total Wingwall Area (Two Wings ~ S.F.) = (Hw + 0.333') (Lw)

Hw = Height of Wingwall

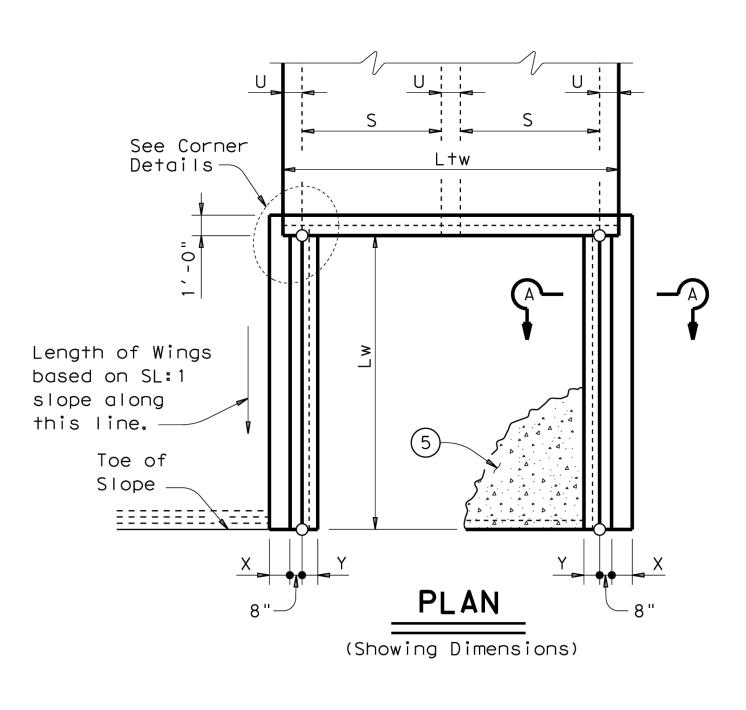
SL:1 = Side Slope Ratio (Horizontal:1 Vertical)

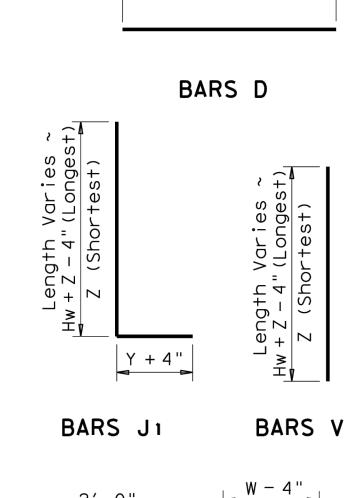
Lw = Length of Wingwall Ltw = Culvert Toewall Lenath

N = Number of Culvert Spans

See applicable box culvert standard for H, S, T, and U values.

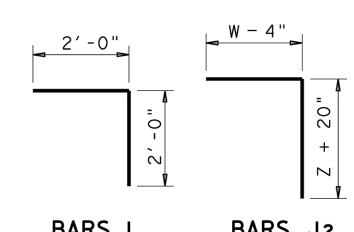
- (1) Extend Bars P 3′-0" minimum into bottom slab of Box Culvert.
- (2) Adjust to fit as necessary to maintain 1 $\frac{1}{4}$ " clear cover and 4" minimum between bars.
- (3) Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings multiply the tabulated values by Lw.
- (4) Recommended values of Slope are: 2:1, 3:1, 4:1, & 6:1.
- 5) When shown elsewhere on the plans, a 5" deep concrete riprap shall be constructed. Payment for riprap shall be as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, the riprap shall have a 6" wide by 1'-6" deep reinforced concrete toewall along all edges adjacent to natural ground; the toewall shall be reinforced by extending typical riprap reinforcing into the toewall; construction joints or grooved joints, oriented in the direction of flow, shall extend across the full distance of the riprap, at intervals of approximately 20'. When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.
- 6 At Contractor's option, Culvert Toewall may be ended flush with Wingwall Toewall. Adjust reinforcing from that shown as necessary.
- (7) 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
- (8) For vehicle safety, curb heights and wall heights shall be reduced, if necessary, to provide a maximum 3" projection above finished grade. No changes will be made in quantities and no additional compensation will be allowed for this work.

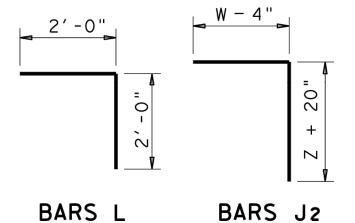




2'-0"

BARS R





GENERAL NOTES:

Designed according to AASHTO LRFD Specifications. All reinforcing steel shall be Grade 60. Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi. All reinforcing bars shall be adjusted to provide

a minimum of 1 $\frac{1}{4}$ " clear cover. When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer. See BCS sheet for additional dimensions and

information. The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

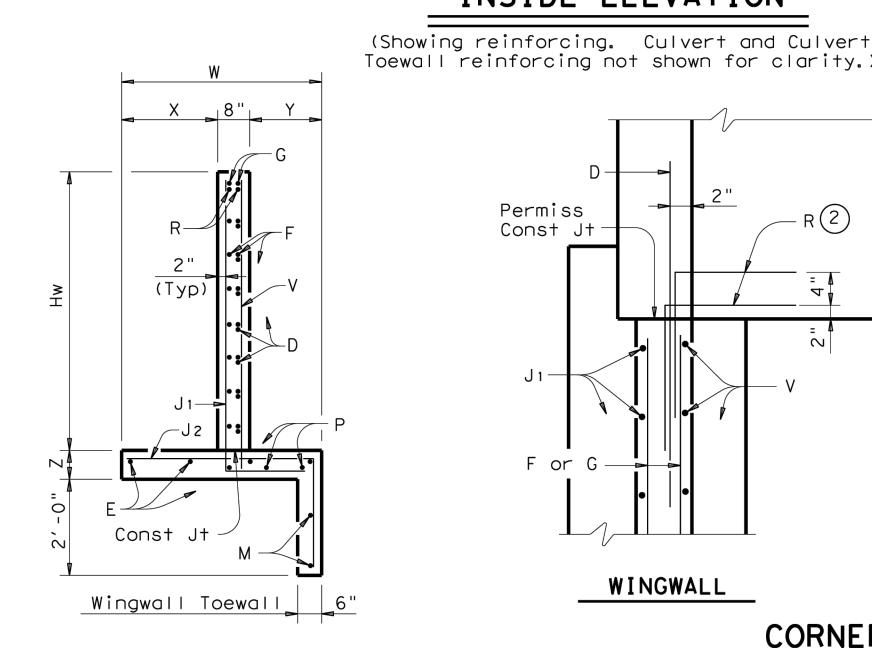


Bridge Division Standard

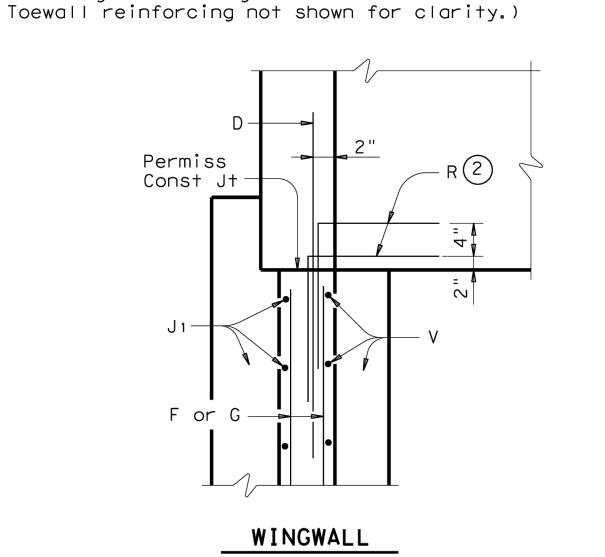
CONCRETE WINGWALLS WITH STRAIGHT WINGS FOR 0° SKEW BOX CULVERTS

SW-O

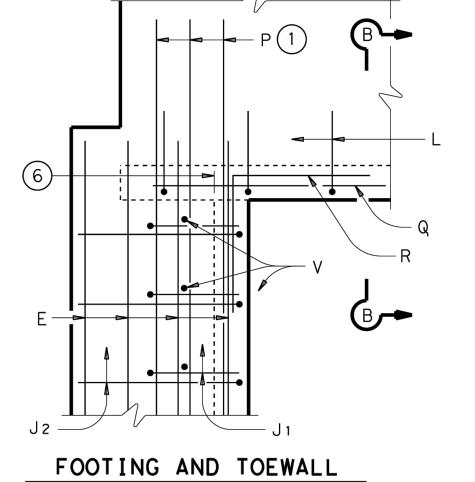
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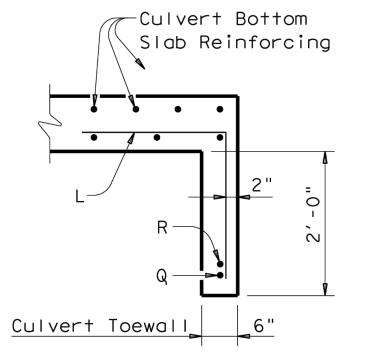


SECTION A-A



INSIDE ELEVATION

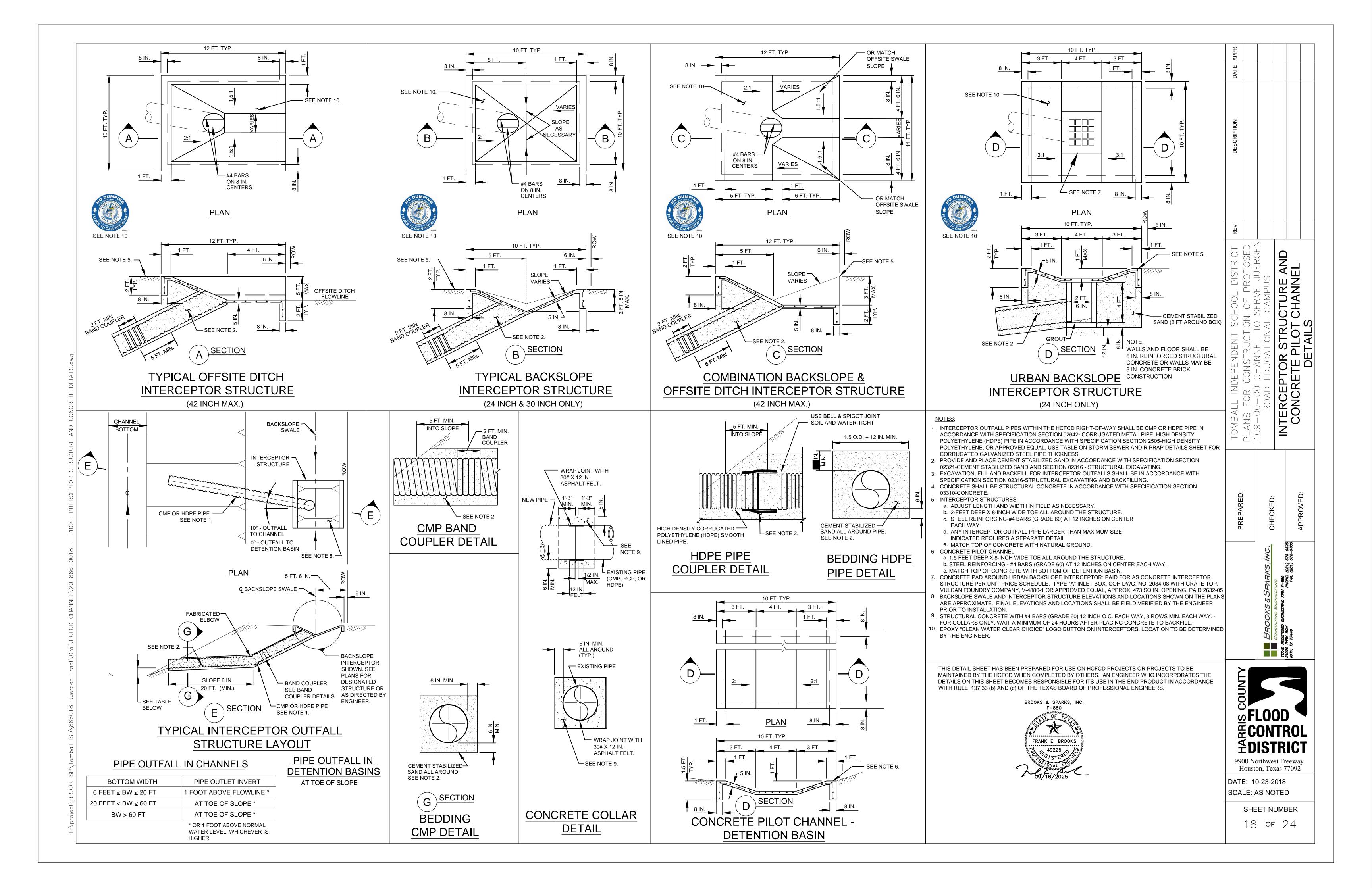


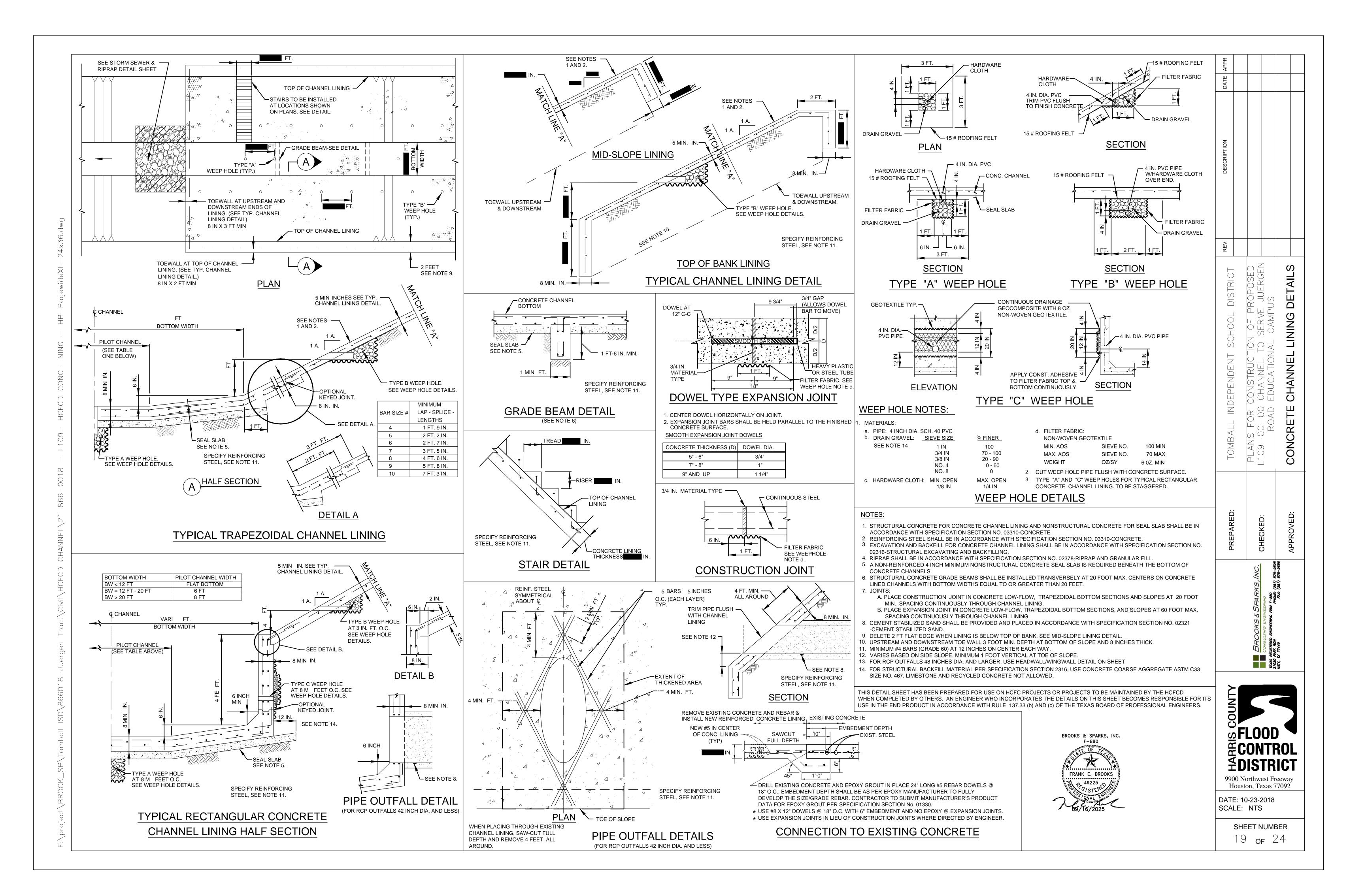


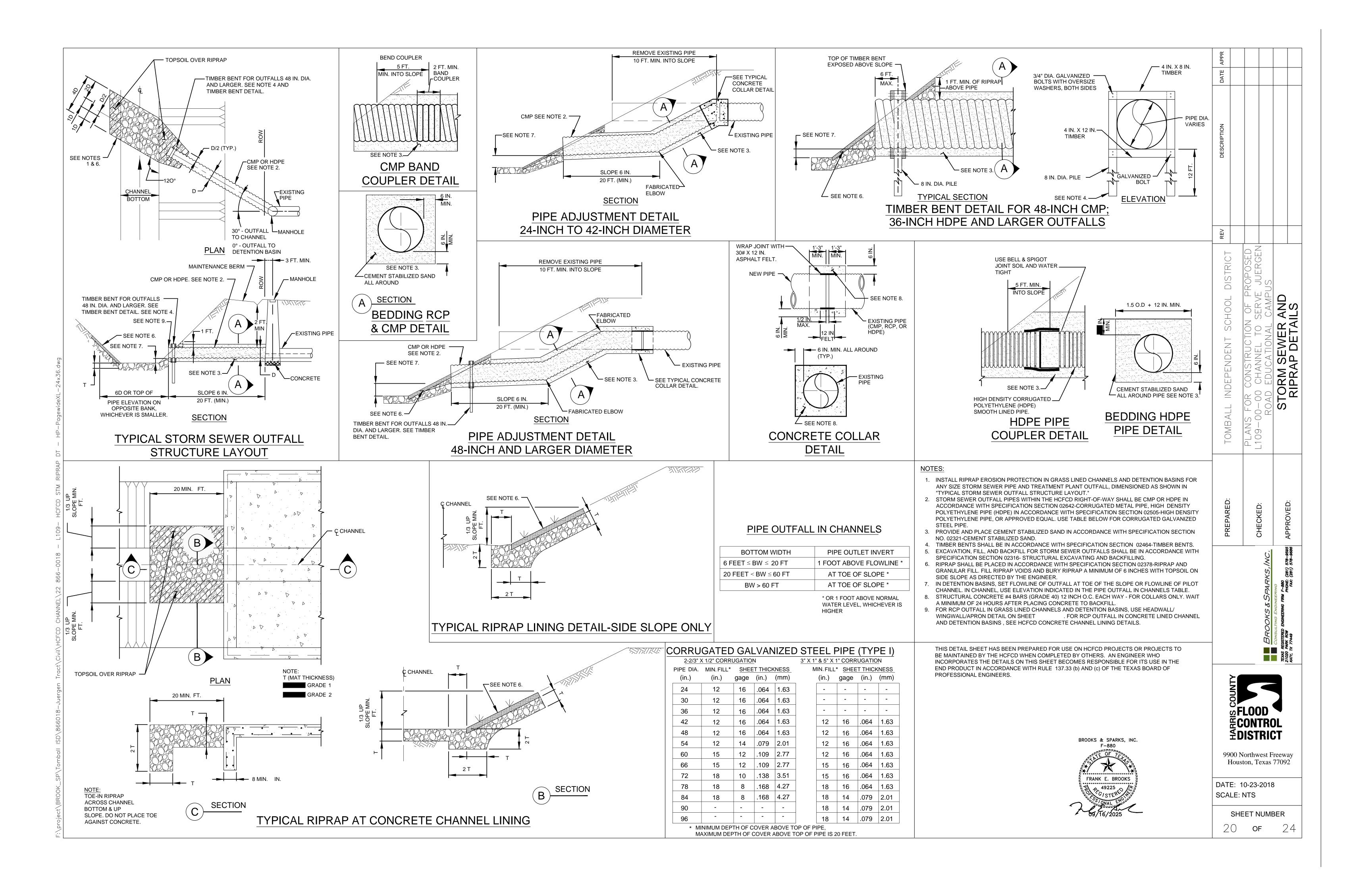
BROOKS & SPARKS, INC. F-880

CORNER DETAILS

SECTION B-B (5)







■■ BROOKS & SPARKS, INC. CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
PHONE:

PHONE: (281) 578-9595 FAX: (281) 578-9686

FLOODPLAIN INFORMATION:

21020 PARK ROW KATY, TX 77449

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> UTILITY ONE CALL CONTRACTOR TO CALL BEFORE DIGGING !!!! PHONE:

HOUSTON)

HOUSTON (713) 223-4567 (STATEWIDE OUTSIDE -(800)-545-6005

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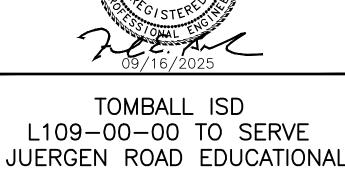
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BROOKS & SPARKS, INC. F-880



L109-00-00 CROSS SECTIONS STA. 2+00 TO STA. 9+00

CAMPUS

	_				
	NO. DATE REVISIONS				
<u>LEGEND</u>	DRAWN BY: RV			CHECKED BY: CSM, JAE	
CUT	DESIGNED BY: CSM			APPROVED BY: FEB	
FILL	PROJECT NO. 866-0018			SEPTEMBER 2025	

SCALE: H: 1"=40', V: 1"=4' | SHEET 21 OF 24

■■ BROOKS & SPARKS, INC. CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
PHONE

PHONE: (281) 578-9595 FAX: (281) 578-9686 **FLOODPLAIN INFORMATION:**

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BROOKS & SPARKS, INC. F-880

TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

L109-00-00 CROSS SECTIONS STA. 10+00 TO STA. 18+00

	NO.	DATE		REVISIONS	BY
	DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
Т	DES	SIGNED E	BY: CSM	APPROVED BY: FEB	
L	PRO	DJECT N	0. 866–0018	SEPTEMBER 2025	

SCALE: H: 1"=40', V: 1"=4' | SHEET 22 OF 24

<u>LEGEND</u> CUT FILL

■■ BROOKS & SPARKS, INC. CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
PHONE:

PHONE: (281) 578-9595 FAX: (281) 578-9686

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HOUSTON (713) 223-4567 (STATEWIDE OUTSIDE HOUSTON) -(800)-545-6005

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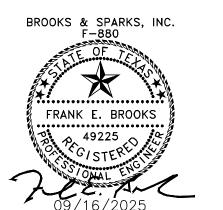
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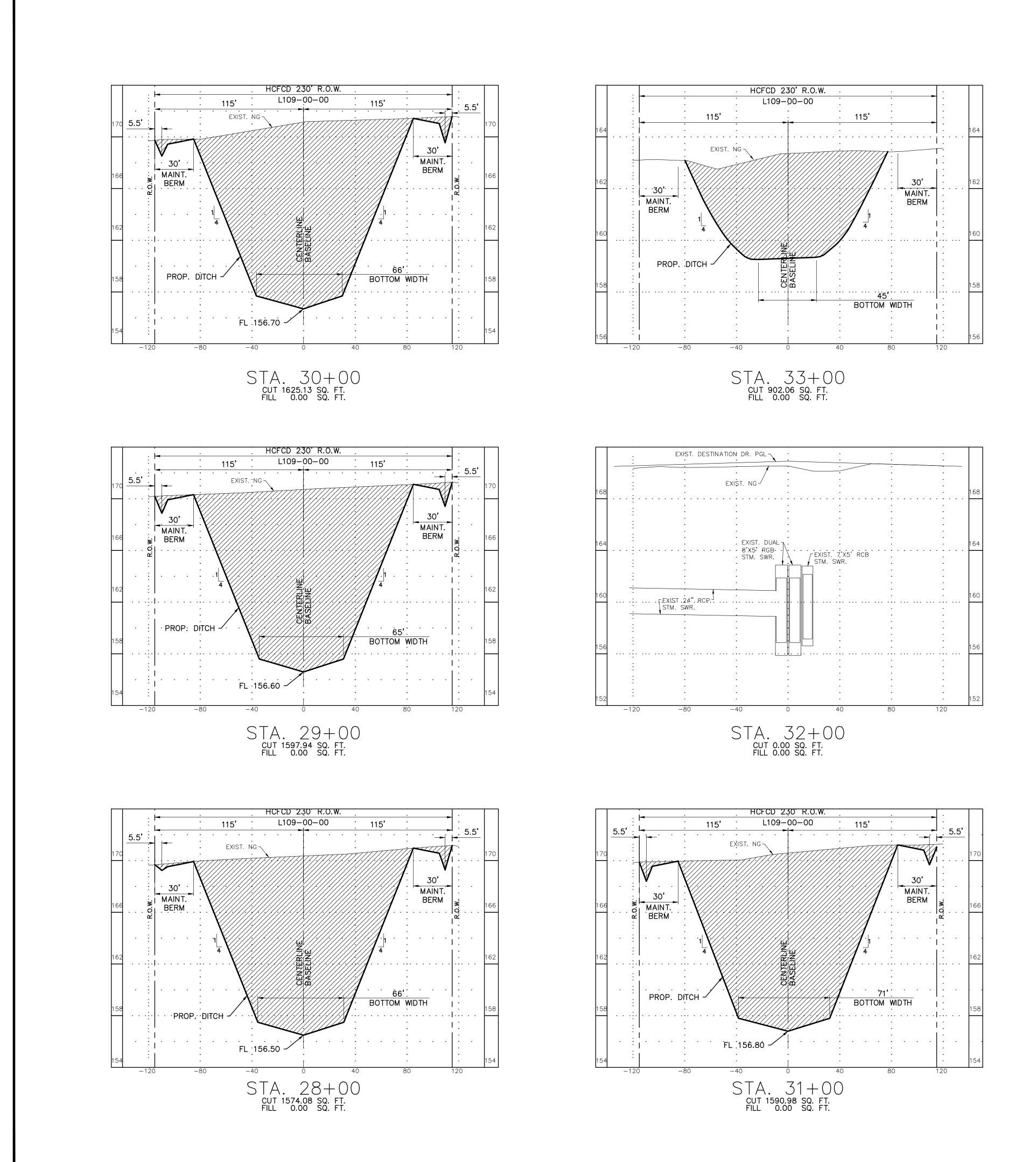


TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

L109-00-00 CROSS SECTIONS STA. 19+00 TO STA. 27+00

NO.	DATE	RI	EVISIONS	BY
DRA	WN BY:	RV	CHECKED BY: CSM, JAE	
DES	SIGNED E	BY: CSM	APPROVED BY: FEB	
PRO	DJECT N	0. 866-0018	SEPTEMBER 2025	

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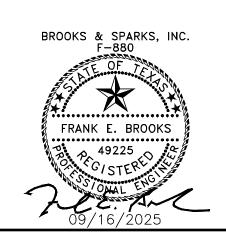
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VERIFICATION OF PRIVATE UTILITY LINES

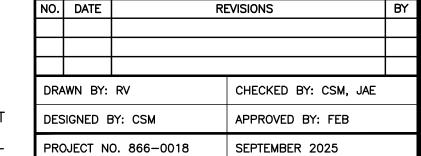
enterPoint Energy/Natural Gas Facilities Verification ONLY. (This Signature verifies that you have shown CNP Natural Gas lines correctly. Not to be used for conflict verification.) (Gas service lines are not shown. Signature Valid for six months.

APPROVED FOR AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES ONLY, Signature valid for one year.



TOMBALL ISD L109-00-00 TO SERVE JUERGEN ROAD EDUCATIONAL CAMPUS

L109-00-00 CROSS SECTIONS STA. 28+00 TO STA. 33+00



SCALE: H: 1"=40', V: 1"=4' | SHEET 24 OF 24

