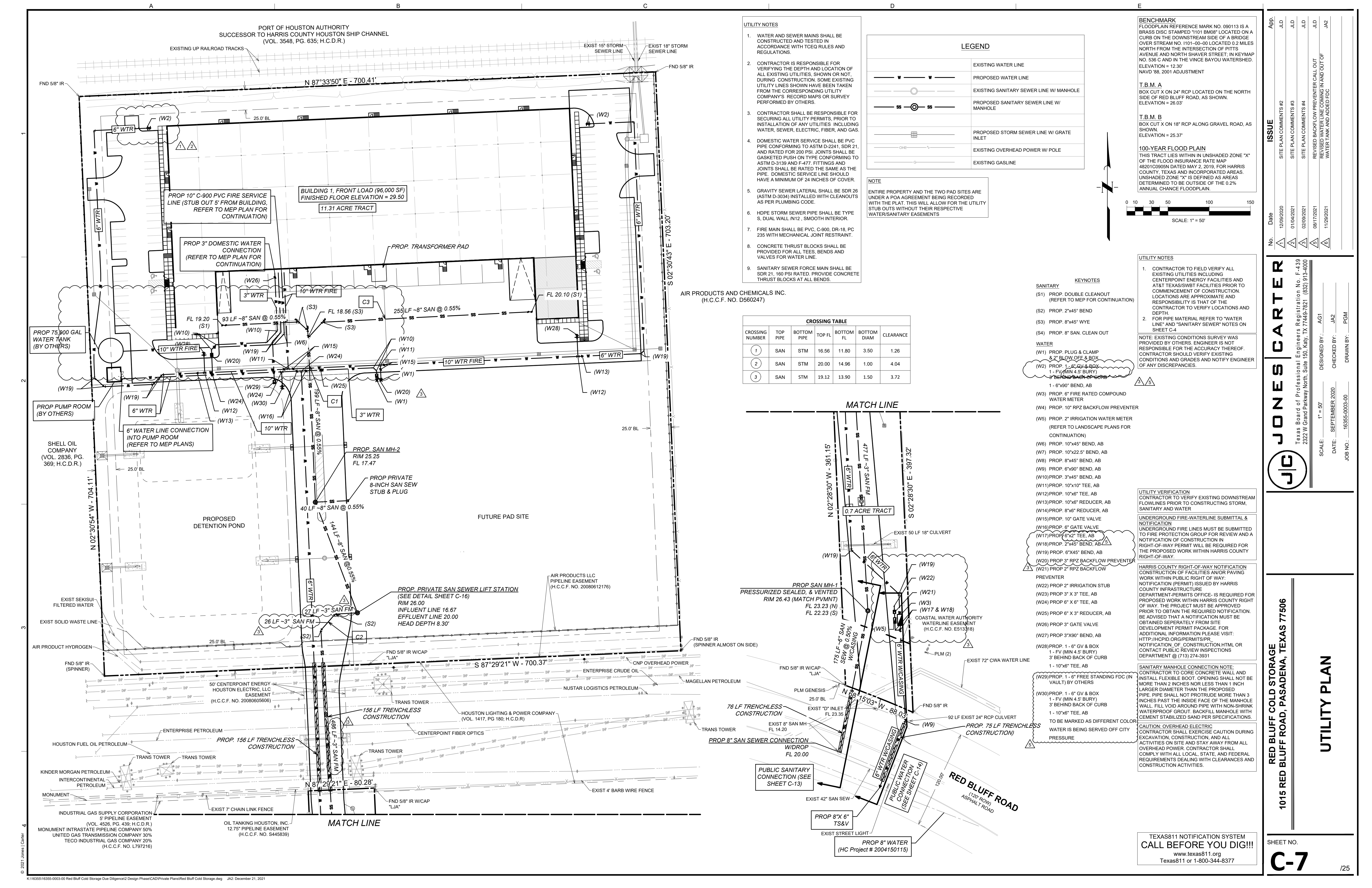
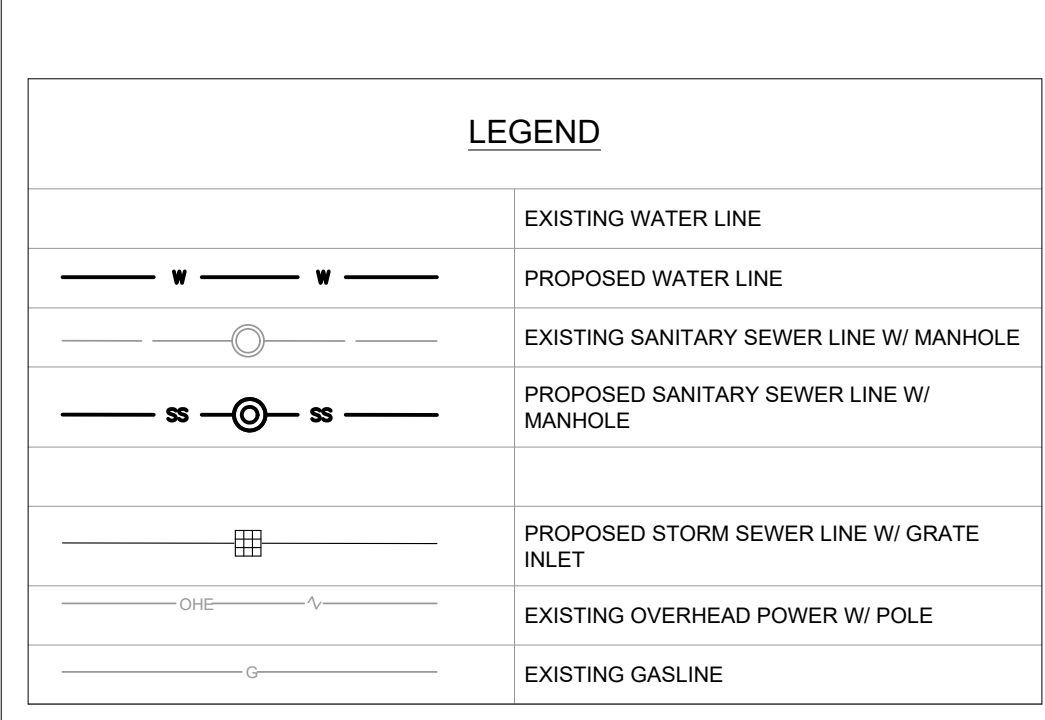


PORT OF HOUSTON AUTHORITY  
SUCCESSOR TO HARRIS COUNTY HOUSTON SHIP CHANNEL  
(VOL. 3548, PG. 635; H.C.D.R.)



- UTILITY NOTES**
1. WATER AND SEWER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TCEQ RULES AND REGULATIONS.
  2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES, SHOWN OR NOT, DURING CONSTRUCTION. SOME EXISTING UTILITY LINES SHOWN HAVE BEEN TAKEN FROM THE CORRESPONDING UTILITY COMPANY'S RECORD MAPS OR SURVEY PERFORMED BY OTHERS.
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL UTILITY PERMITS, PRIOR TO INSTALLATION OF ANY UTILITIES INCLUDING WATER, SEWER, ELECTRIC, FIBER, AND GAS.
  4. DOMESTIC WATER SERVICE SHALL BE PVC PIPE CONFORMING TO ASTM D-2241, SDR 21, AND RATED FOR 200 PSI. JOINTS SHALL BE GASKETED PUSH ON TYPE CONFORMING TO ASTM D-3139 AND F-477. FITTINGS AND JOINTS SHALL BE RATED THE SAME AS THE PIPE. DOMESTIC SERVICE LINE SHOULD HAVE A MINIMUM OF 24 INCHES OF COVER.
  5. GRAVITY SEWER LATERAL SHALL BE SDR 26 (ASTM D-3034) INSTALLED WITH CLEANOUTS AS PER PLUMBING CODE.
  6. HDPE STORM SEWER PIPE SHALL BE TYPE S, DUAL WALL, IN12, SMOOTH INTERIOR.
  7. FIRE MAIN SHALL BE PVC, C-900, DR-18, PC 235 WITH MECHANICAL JOINT RESTRAINT.
  8. CONCRETE THRUST BLOCKS SHALL BE PROVIDED FOR ALL TEES, BENDS AND VALVES FOR WATER LINE.
  9. SANITARY SEWER FORCE MAIN SHALL BE SDR 21, 160 PSI RATED. PROVIDE CONCRETE THRUST BLOCKS AT ALL BENDS.



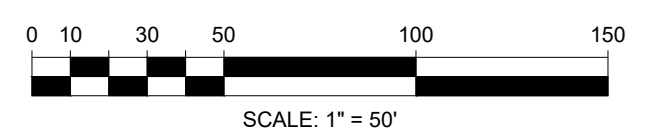
**NOTE**  
ENTIRE PROPERTY AND THE TWO PAD SITES ARE UNDER A POA AGREEMENT BEING RECORDED WITH THE PLAT. THIS WILL ALLOW FOR THE UTILITY STUB OUTS WITHOUT THEIR RESPECTIVE WATER/SANITARY EASEMENTS

**BENCHMARK**  
FLOODPLAIN REFERENCE MARK NO. 090113 IS A BRASS DISC STAMPED "101 BM08" LOCATED ON A CURB ON THE DOWNSTREAM SIDE OF A BRIDGE OVER STREAM NO. 1101-00-00 LOCATED 0.2 MILES NORTH FROM THE INTERSECTION OF PITTS AVENUE AND NORTH SHAVER STREET, IN KEYMAP NO. 536 C AND IN THE VINCE BAYOU WATERSHED. ELEVATION = 12.30  
NAVD '88, 2001 ADJUSTMENT

**T.B.M. A**  
BOX CUT X ON 24" RCP LOCATED ON THE NORTH SIDE OF RED BLUFF ROAD, AS SHOWN. ELEVATION = 26.03

**T.B.M. B**  
BOX CUT X ON 18" RCP ALONG GRAVEL ROAD, AS SHOWN. ELEVATION = 25.37

**100-YEAR FLOOD PLAIN**  
THIS TRACT LIES WITHIN IN UNSHADED ZONE "X" OF THE FLOOD INSURANCE RATE MAP 48201C0905N DATED MAY 2, 2019, FOR HARRIS COUNTY, TEXAS AND INCORPORATED AREAS. UNSHADED ZONE "X" IS DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

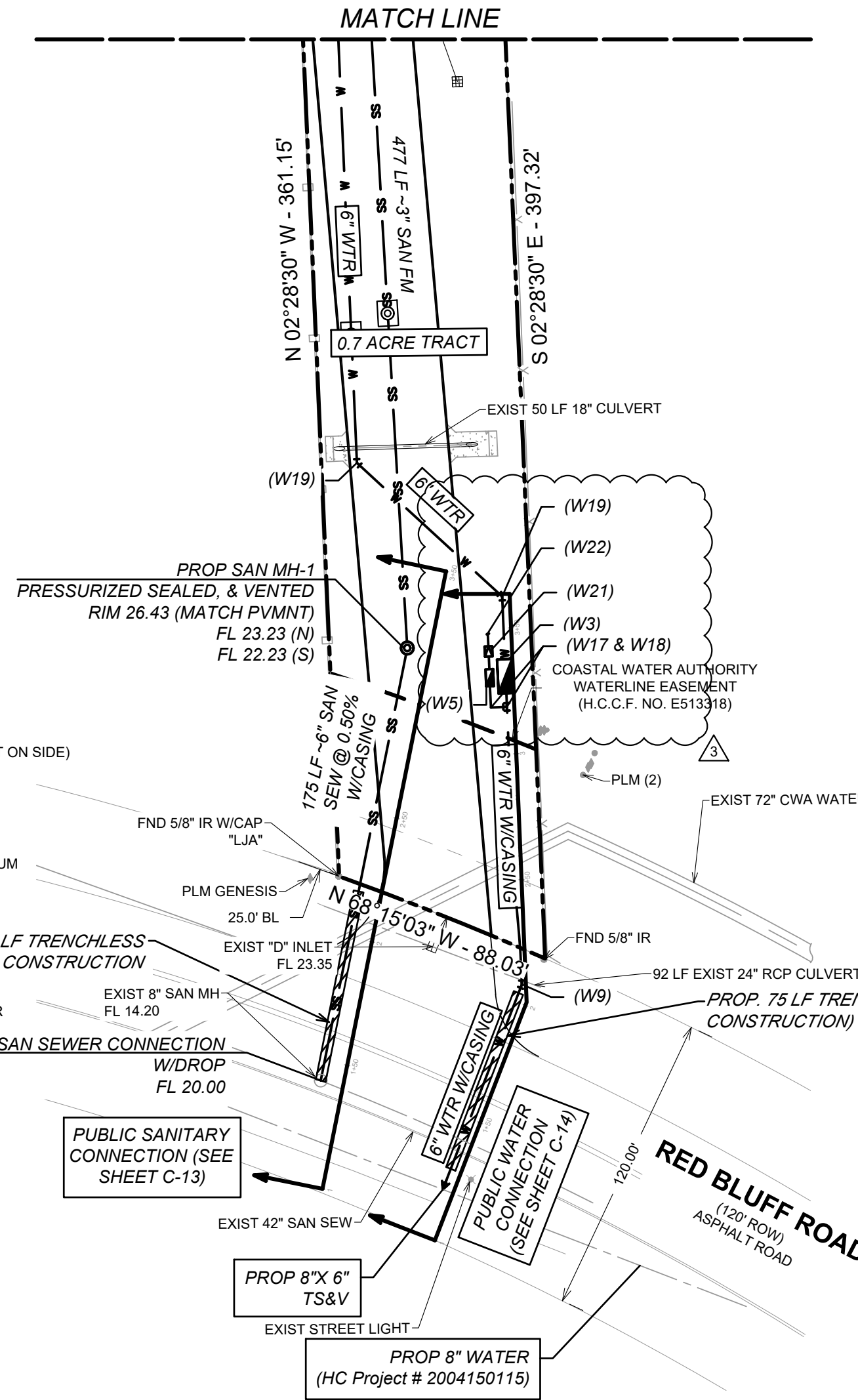


- UTILITY NOTES**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES INCLUDING CENTERPOINT ENERGY FACILITIES AND AT&T TEXAS/SWBT FACILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. LOCATIONS ARE APPROXIMATE AND RESPONSIBILITY IS THAT OF THE CONTRACTOR TO VERIFY LOCATIONS AND DEPTH.
  2. FOR PIPE MATERIAL REFER TO "WATER LINE" AND "SANITARY SEWER" NOTES ON SHEET C-4
- NOTE:** EXISTING CONDITIONS SURVEY WAS PROVIDED BY OTHERS. ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY THEREOF. CONTRACTOR SHOULD VERIFY EXISTING CONDITIONS AND GRADES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

**CROSSING TABLE**

CROSSING NUMBER	TOP PIPE	BOTTOM PIPE	TOP FL	BOTTOM FL	BOTTOM DIAM	CLEARANCE
1	SAN	STM	16.56	11.80	3.50	1.26
2	SAN	STM	20.00	14.96	1.00	4.04
3	SAN	STM	19.12	13.90	1.50	3.72

- KEYNOTES**
- SANITARY**
- (S1) PROP. DOUBLE CLEANOUT (REFER TO MEP FOR CONTINUATION)
  - (S2) PROP. 2"x45" BEND
  - (S3) PROP. 8"x45" WYE
  - (S4) PROP. 8" SAN. CLEAN OUT
- WATER**
- (W1) PROP. PLUG & CLAMP & 2" FLOW OFF & BOX
  - (W2) PROP. 1-6"x90" BEND, AB
  - (W3) PROP. 6" FIRE RATED COMPOUND WATER METER
  - (W4) PROP. 10" RPZ BACKFLOW PREVENTER
  - (W5) PROP. 2" IRRIGATION WATER METER (REFER TO LANDSCAPE PLANS FOR CONTINUATION)
  - (W6) PROP. 10"x45" BEND, AB
  - (W7) PROP. 10"x22.5" BEND, AB
  - (W8) PROP. 8"x45" BEND, AB
  - (W9) PROP. 6"x90" BEND, AB
  - (W10) PROP. 3"x45" BEND, AB
  - (W11) PROP. 10"x10" TEE, AB
  - (W12) PROP. 10"x6" TEE, AB
  - (W13) PROP. 10"x6" REDUCER, AB
  - (W14) PROP. 8"x6" REDUCER, AB
  - (W15) PROP. 10" GATE VALVE
  - (W16) PROP. 6" GATE VALVE
  - (W17) PROP. 6"x2" TEE, AB
  - (W18) PROP. 2"x45" BEND, AB
  - (W19) PROP. 6"x45" BEND, AB
  - (W20) PROP. 3" RPZ BACKFLOW PREVENTER
  - (W21) PROP. 2" RPZ BACKFLOW PREVENTER
  - (W22) PROP. 2" IRRIGATION STUB
  - (W23) PROP. 3" X 3" TEE, AB
  - (W24) PROP. 6" X 6" TEE, AB
  - (W25) PROP. 6" X 3" REDUCER, AB
  - (W26) PROP. 3" GATE VALVE
  - (W27) PROP. 3"x90" BEND, AB
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  - (W100) PROP. 1-6" GV & BOX



- UTILITY VERIFICATION**  
CONTRACTOR TO VERIFY EXISTING DOWNSTREAM FLOWLINES PRIOR TO CONSTRUCTING STORM, SANITARY AND WATER
- UNDERGROUND FIRE-WATERLINE SUBMITTAL & NOTIFICATION**  
UNDERGROUND FIRE LINES MUST BE SUBMITTED TO FIRE PROTECTION GROUP FOR REVIEW AND A NOTIFICATION OF CONSTRUCTION IN RIGHT-OF-WAY PERMIT WILL BE REQUIRED FOR THE PROPOSED WORK WITHIN HARRIS COUNTY RIGHT-OF-WAY.
- HARRIS COUNTY RIGHT-OF-WAY NOTIFICATION**  
CONSTRUCTION OF FACILITIES ANIOR PAVING WORK WITHIN PUBLIC RIGHT OF WAY: NOTIFICATION (PERMIT) ISSUED BY HARRIS COUNTY INFRASTRUCTURE DEPARTMENT-PERMIT'S OFFICE- IS REQUIRED FOR PROPOSED WORK WITHIN HARRIS COUNTY RIGHT OF WAY. THE PROJECT MUST BE APPROVED PRIOR TO OBTAIN THE REQUIRED NOTIFICATION. BE ADVISED THAT A NOTIFICATION MUST BE OBTAINED SEPERATELY FROM SITE DEVELOPMENT PERMIT PACKAGE. FOR ADDITIONAL INFORMATION PLEASE VISIT: [HTTP://HCID.ORG/PERMITS/PR](http://hcid.org/permits/pr) NOTIFICATION OF CONSTRUCTION HTML OR CONTACT PUBLIC REVIEW INSPECTIONS DEPARTMENT @ (713) 274-3931
- SANITARY MANHOLE CONNECTION NOTE:**  
CONTRACTOR TO CORE CONCRETE WALL AND INSTALL FLEXIBLE BOOT. OPENING SHALL NOT BE MORE THAN 2 INCHES NOR LESS THAN 1 INCH LARGER DIAMETER THAN THE PROPOSED PIPE. PIPE SHALL NOT PROTRUDE MORE THAN 3 INCHES PAST THE INSIDE FACE OF THE MANHOLE WALL. FILL VOID AROUND PIPE WITH NON-SHRINK WATERPROOF GROUT. BACKFILL MANHOLE WITH CEMENT STABILIZED SAND PER SPECIFICATIONS.
- CAUTION: OVERHEAD ELECTRIC**  
CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION, CONSTRUCTION, AND ALL ACTIVITIES ON SITE AND STAY AWAY FROM ALL OVERHEAD POWER. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS DEALING WITH CLEARANCES AND CONSTRUCTION ACTIVITIES.

**ISSUE**

No.	Date	Issue
1	12/09/2020	SITE PLAN COMMENTS #2
2	01/04/2021	SITE PLAN COMMENTS #3
3	02/09/2021	SITE PLAN COMMENTS #4
4	08/17/2021	REVISED BACKFLOW PREVENTER CALL OUT
5	11/09/2021	REVISED BACKFLOW PREVENTER CALL OUT OF WATER TANK AND ADDED FDC

**JONES CARTER**  
Texas Board of Professional Engineers Registration No. F-439  
2322 W Grand Parkway North, Suite 150, Katy, TX 77449-7821 (832) 913-4000

DESIGNED BY: AGI  
CHECKED BY: JAZ  
DATE: SEPTEMBER 2020  
DRAWN BY: PGM  
JOB NO.: 16555-003-00

**JONES CARTER**

**RED BLUFF COLD STORAGE**  
1015 RED BLUFF ROAD, PASADENA, TEXAS 77506

**UTILITY PLAN**

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