

LEGEND

- PROPOSED WATER LINE
 - PROPOSED SANITARY SEWER LINE
 - EX. OVERHEAD POWER
 - EX. UNDERGROUND TELEPHONE LINE
 - EX. STORM SEWER LINE
 - EX. WATER LINE
 - EX. SANITARY SEWER LINE
 - PROPOSED MH
 - EX. MH
- DENOTES: 1-JOINT CENTERED ON WATER LINE / SANITARY SEWER
 PROP BORE & JACK

GENERAL NOTES

1. REFERENCE SANITARY SEWER AND WATER LINE NOTES SHEET 2 FOR PIPE MATERIAL REQUIREMENTS.
2. ALL DRIVEWAYS, SIDEWALKS, STREET LIGHTS, BUSHES, SHRUBBERY AND LANDSCAPING DAMAGED ON PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER. ALL TREES, LANDSCAPING, IRRIGATION, SPRINKLER HEADS, AND PLANTS SHALL BE PROTECTED DURING CONSTRUCTION.
3. CONTRACTOR TO CONSTRUCT ALL SANITARY RIMS TO 3 INCHES ABOVE FINISHED GRADE.
4. SANITARY SEWER- USE 10" GREEN P.V.C. C-900 DR-18 CL.235 FOR BORE & JACK.
5. CONTRACTOR TO SECURE ALL POWER POLES, GUY WRES, ETC DURING CONSTRUCTION (NO SEPARATE PAY)

1. CONSTRUCTION OF FACILITIES AND/OR PAVING WORK WITHIN PUBLIC RIGHT-OF-WAY.
 NOTIFICATIONS (PERMIT) ISSUED BY HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT - PERMITS OFFICE - IS REQUIRED FOR PROPOSED WORK WITHIN HARRIS COUNTY RIGHT-OF-WAY. THE PROJECT MUST BE APPROVED PRIOR TO OBTAINING THE REQUIRED NOTIFICATION. BE ADVISED THAT A NOTIFICATION MUST BE OBTAINED SEPARATELY FROM SITE DEVELOPMENT PERMIT PACKAGE. FOR ADDITIONAL INFORMATION, PLEASE VISIT [HTTP://HCPID.ORG/PERMITS/PR_NOTIFICATION_OF_CONSTRUCTION.HTML](http://HCPID.ORG/PERMITS/PR_NOTIFICATION_OF_CONSTRUCTION.HTML) OR CONTACT PUBLIC REVIEW INSPECTIONS DEPARTMENT @ (713)-274-3931 OR PUBLIC.REVIEW@HCPID.ORG

SANITARY SEWER & WATER LINE CROSSING NOTES:

1. PLACE 1 FULL SECTION (MIN 18 FT) OF SS CENTERED AT WL CROSSING. PROVIDE RESTRAINED JOINTS ON SS, SPACED AT LEAST 9 FT HORIZONTALLY FROM CENTERLINE OF WL
2. PLACE 1 FULL SECTION (MIN 18 FT) OF WL CENTERED AT SS CROSSING. PROVIDE RESTRAINED JOINTS ON WL, SPACED AT LEAST 9 FT HORIZONTALLY FROM CENTERLINE OF SS
3. EMBED SS WITH CSS FOR THE TOTAL LENGTH OF 1 PIPE SEGMENT PLUS 1 FOOT BEYOND JOINTS AT EACH END. NOT REQUIRED FOR AUGURED WL UNLESS THERE IS EVIDENCE OF LEAKAGE. COMPLETELY FILL AUGURED HOLE WITH BENTONITE/CLAY MIXTURE
4. FOR WATER AND SANITARY CONTRACTOR TO REFERENCE TABLE 7.3 ON SHEET 2. FOR EXACT CONSTRUCTION METHODS AND PROTECTION REQUIREMENTS FOR INSTALLATION OF PROPOSED UTILITIES.

MULTIPLE EXISTING PUBLIC AND PRIVATE UTILITY LINES EXIST ON THIS SITE. THE UTILITY LINES SHOWN ON THESE DRAWINGS REFLECT INFORMATION OBTAINED FROM RECORD DRAWINGS AND MAY NOT INCLUDE ALL EXISTING UTILITIES. CONTRACTOR IS TO USE EXTREME CAUTION DURING ALL CONSTRUCTION ACTIVITIES AND IS SOLELY RESPONSIBLE FOR DAMAGE TO EXISTING FACILITIES.



BENCHMARK:
 ELEVATIONS SHOWN HEREON ARE BASED ON TSARP FLOORPLAN RM NO. 150770 (TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD 83), HCSSD STAINLESS STEEL ROD STAMPED "HCS5D 11 1986" AT THE INTERSECTION OF FM 1960 AND BRETON RIDGE STREET LOCATED IN THE GROUND, NORTH OF INTERSECTION, WEST OF JARED JEWELER PARKING LOT.
 ELEVATION = 120.92' (NAVD 1988M 2001 ADJUSTED)

TEMPORARY BENCHMARK "A":
 CUT "X" ON NORTHERLY BOLT ON TOP FLANGE OF FIRE HYDRANT AT THE NORTHWEST INTERSECTION OF FM 1960 AND CUTTEN ROAD. (NOT SHOWN HEREON)
 ELEVATION = 122.42'

TEMPORARY BENCHMARK "B":
 CUT "BOX" IN LIGHT STANDARD LOCATED APPROX. 100 FEET WEST OF CUTTEN ROAD AND MOST SOUTHERN ENTRANCE OF WALMART, SOUTH SIDE OF ENTRANCE. (SHOWN HEREON)
 ELEVATION = 122.42'

TEMPORARY BENCHMARK "C":
 BOX CUT ON STORM INLET ALONG THE SOUTH SIDE OF COCKRUM BLVD., APPROX. 100 FEET WEST OF VINVALE ROAD. (SHOWN HEREON)
 ELEVATION = 117.04'

MATCH LINE 9+40.00 (SEE SHEET 5 OF 15)

MATCH LINE 14+00.00 (SEE SHEET 7 OF 15)

Chad Walker 1/12/2018
 HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 191 ENGINEER DATE
 APPROVAL CAN BE REVOKED, SUSPENDED, OR MODIFIED AT ANY TIME, BUT, IN ANY EVENT, IT EXPIRES AUTOMATICALLY AFTER ONE YEAR.

NOTICE:
 TO ARRANGE FOR LINE TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT (713) 207-2222

VERIFICATION OF PRIVATE UTILITY LINES
 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 signature does not fulfill your obligation to call 811.

Alma DATE: 12/14/17
 CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.
 Signature valid for 6 months.

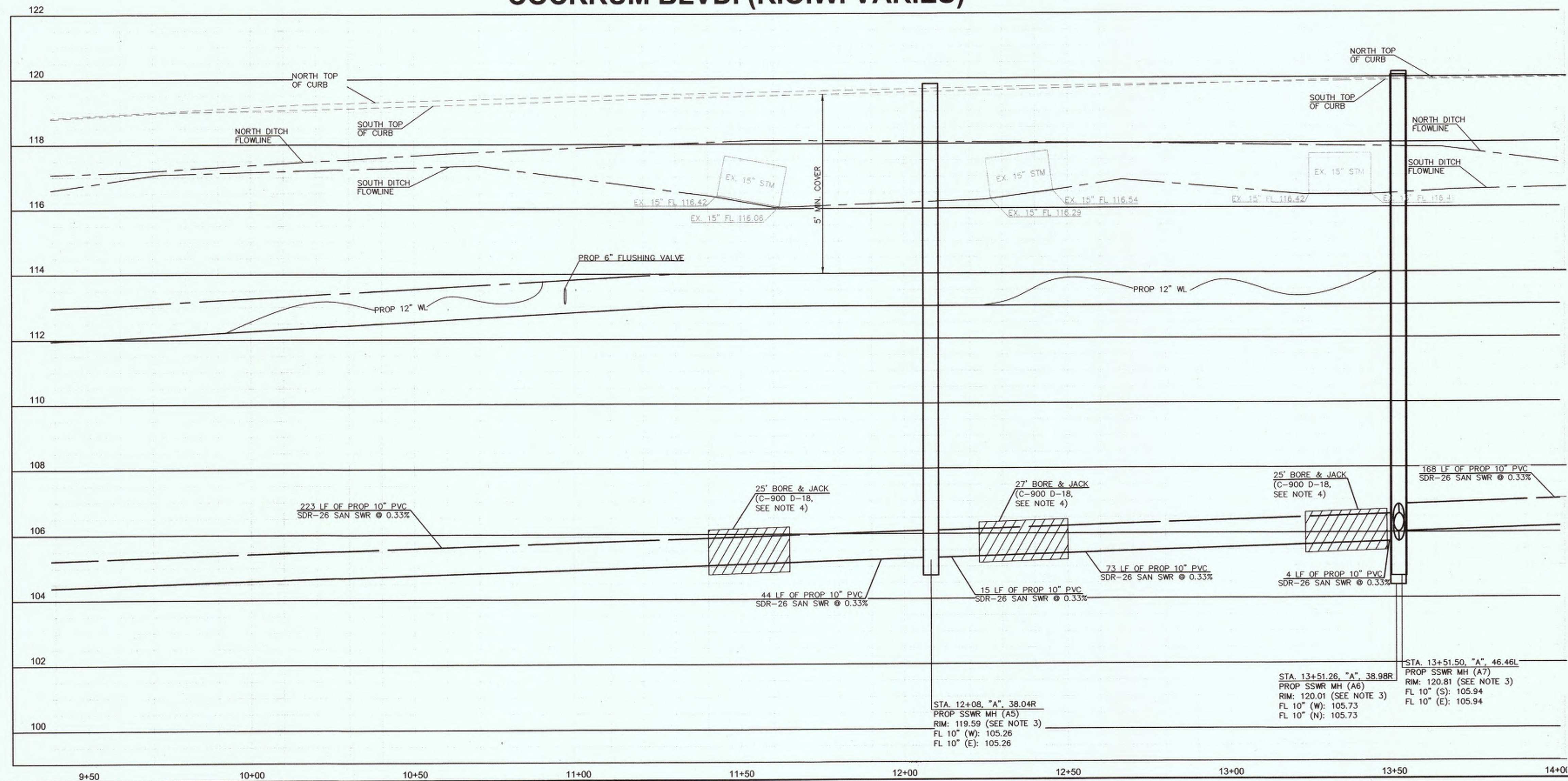
Alma DATE: 12/13/17
 CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities-not to be used for conflict verification.)
 Signature valid for six months.

C.M.C. DATE: 12-13-17
 APPROVED FOR STATE TEXAS / SHEET UNDERGROUND CONDUIT FACILITIES ONLY
 SIGNATURE VALID FOR ONE YEAR.

NO CHANGE
AS-BUILT
 MMG Contractors, LLC
 Date: 12/14/18

APP.	REVISIONS	DATE
1	VOID SHEETS 1-15 ADD SHEETS 1A-16A ADD SHEETS 16-19 PER MVD	12/14/17

COCKRUM BLVD. (R.O.W. VARIES)



MATCH LINE 14+00.00 (SEE SHEET 7 OF 15)

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PATRICK L. CARRIGAN
 95617
 REGISTERED PROFESSIONAL ENGINEER
 12 DECEMBER 2017

CUTTEN PARK UTILITIES

COCKRUM BLVD. UTILITY PLAN & PROFILE (3 OF 4)

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO: FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE

HORIZ : 1"=20'
 VERT : 1"=2'

SHEET NO. 6 OF 17

59273