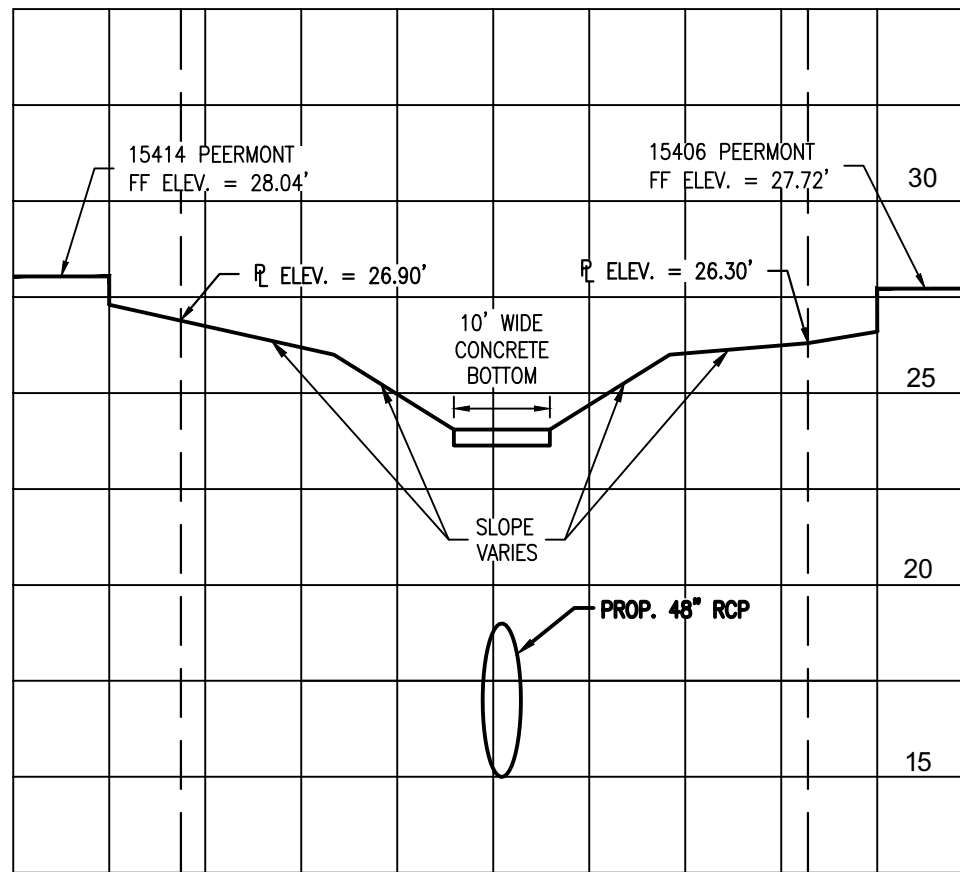
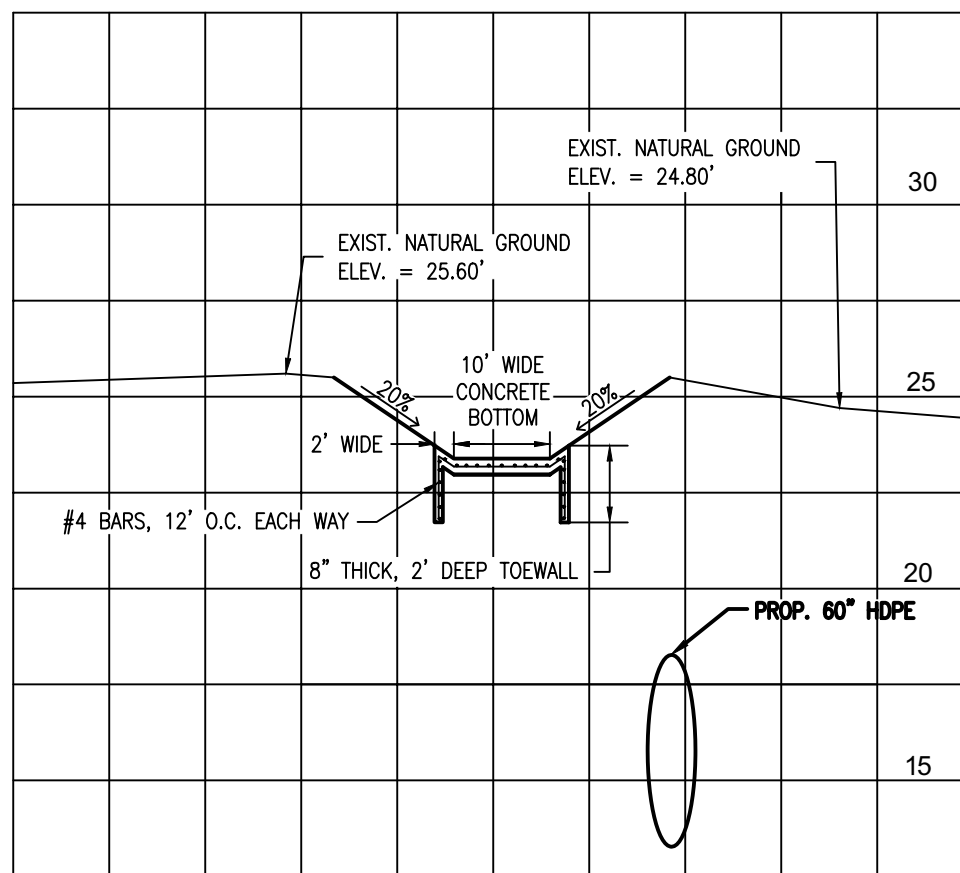


### TYPICAL CROSS SECTION



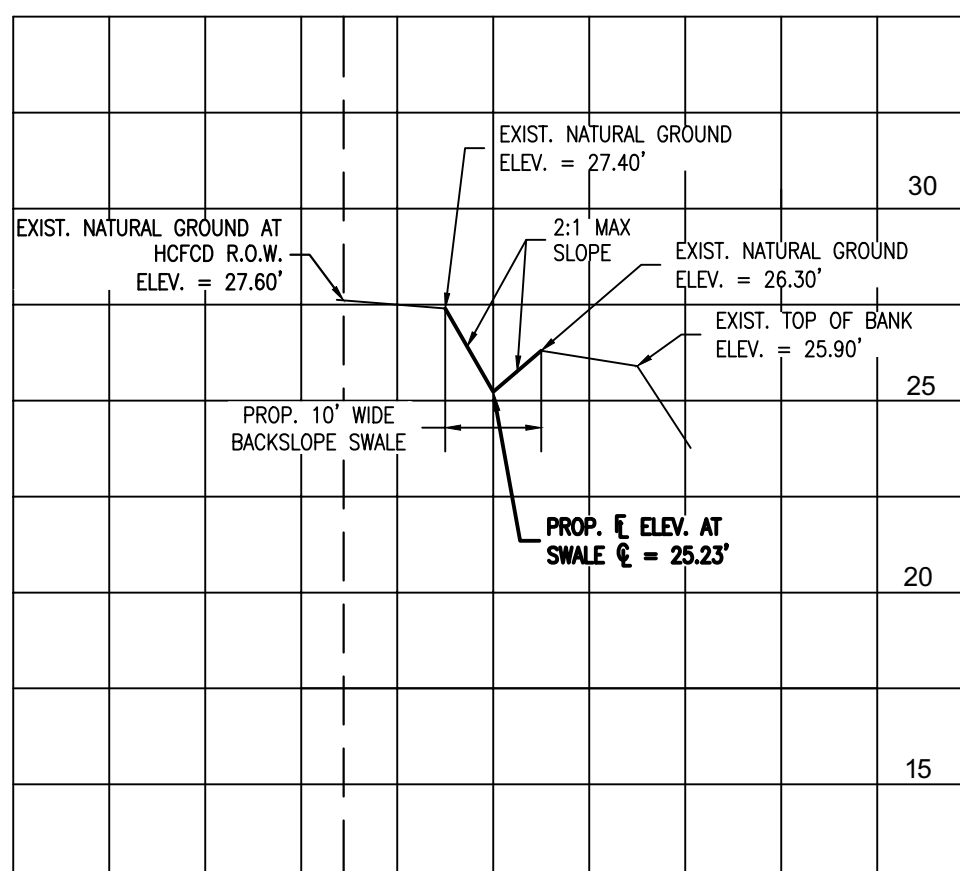
### CROSS-SECTION "A-A"

SCALE: HORIZ: 1" = 20' VERT: 1" = 5'



### CROSS-SECTION "B-B"

SCALE: HORIZ: 1" = 20' VERT: 1" = 5'



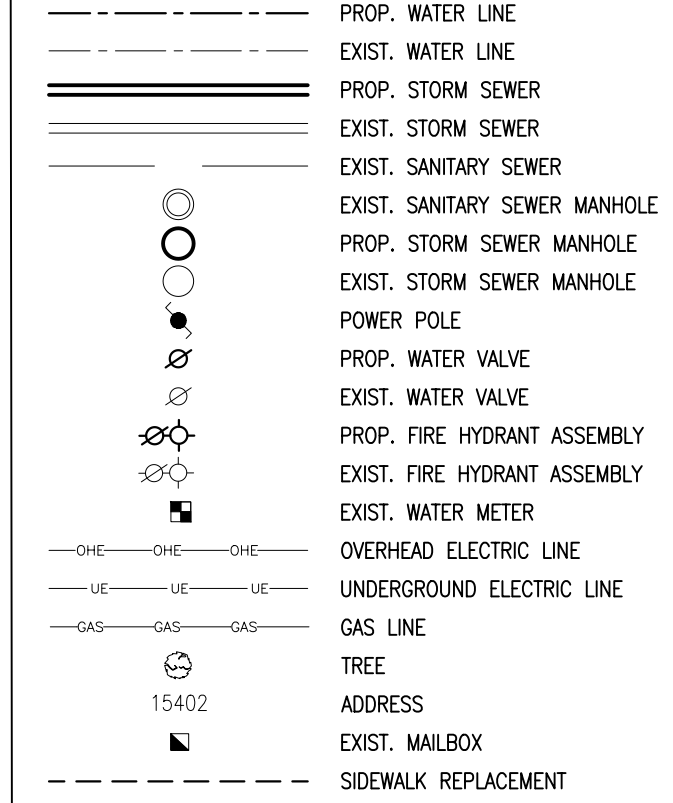
### CROSS-SECTION "C-C"

SCALE: HORIZ: 1" = 20' VERT: 1" = 5'

### NOTES:

- DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS PRIOR TO CONSTRUCTION. ALL DISCREPANCIES, APPARENT ERRORS OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- PERMITS MUST BE OBTAINED AND PROVIDED TO ENGINEER PRIOR TO ANY OPEN STREET CUTS.
- CONTRACTOR SHALL RECONNECT SERVICE LINES TO THE NEW WATER LINE. NEW SERVICE TAPS SHALL BE COMPLETED USING FORD TAPPING SADDLES WITH STAINLESS STEEL BANDS INCLUDING FORD CORROSION VALVES AND FORD BALL VALVE CURB STOPS. EXISTING COPPER SERVICE LINES SHALL BE REMOVED AND RETURNED TO CLEAR LAKE CITY WATER AUTHORITY.
- ALL TAPPING SLEEVES SHALL BE FULL CIRCLE STAINLESS STEEL.
- ALL EXISTING WATER METERS ARE TO BE CONNECTED TO THE PROPOSED 8" WATER LINE. REFER TO NOTE 4 FOR ADDITIONAL DETAILS. LONG SIDE SERVICES SHALL BE 1" SERVICE LINES, AND SHORT SIDE SERVICES SHALL BE 2" SERVICE LINES CONNECTED FOR EACH EXISTING METER TO THE PROPOSED 8" WATER LINE.
- ALL VALVES SHALL BE OPEN LEFT VALVES. NO RED TOP VALVES. THE CONTRACTOR SHALL INSTALL AN EXTENSION NUT ON ALL VALVES IN ORDER TO KEEP VALVES NO DEEPER THAN 4 FEET BELOW NATURAL GROUND.
- CONTRACTOR SHALL REMOVE AND SALVAGE ALL EXISTING FIRE HYDRANT ASSEMBLIES AND VALVES AND RETURN TO CLEAR LAKE CITY WATER AUTHORITY. THE OLD F.H. CONNECTION ON THE EXISTING LINE SHALL BE CAPPED.
- PROPOSED SWALES AND INTERCEPTOR STRUCTURES SHALL BE SODDED PER THE SODDING DETAIL ON SHEET 17 AND SOD SHALL MATCH EXISTING COVER.
- THE CONTRACTOR SHALL RESTORE THE LANDSCAPE TO ITS ORIGINAL CONDITION OR BETTER. SOD SHALL BE USED TO RESTORE ANY GRASS THAT IS DISTURBED WITHIN THE ROADWAY R.O.W. OR THE PROPERTY AT 15410 PEERMONT STREET. THE AREA WITHIN THE HCFCD R.O.W. SHALL BE HYDROMULCHED.
- CONTRACTOR SHALL REPAIR OR PLACE ANY SIDEWALKS OR DRIVEWAYS THAT HAVE BEEN DAMAGED DUE TO CONSTRUCTION. THE ENGINEER SHALL DETERMINE IF THE SIDEWALK OR DRIVEWAYS NEED TO BE REPAIRED OR REPLACED. IF DETERMINED TO BE REPLACED, THE CONTRACTOR SHALL REPLACE ENTIRE PANEL SECTION OF THE CONCRETE WITH HIGH EARLY STRENGTH CONCRETE. CONCRETE REPAIR AND REPLACEMENT SHALL BE INCIDENTAL TO SITE RESTORATION.
- CONTRACTOR SHALL PROTECT ALL MAILBOXES DURING CONSTRUCTION. ANY DAMAGED MAILBOXES SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- COORDINATE WITH HOMEOWNER FOR ANY WORK THAT MAY AFFECT DRIVEWAY ACCESS. CONTRACTOR SHALL ONLY CLOSE PARTS OF STREET AND DRIVEWAYS AS NECESSARY FOR WATER LINE AND STORM SEWER INSTALLATION AND SHALL MAKE EVERY EFFORT POSSIBLE TO MAINTAIN HOMEOWNER'S ACCESS TO THEIR DRIVEWAY OR AS CLOSE TO THEIR HOMES AS POSSIBLE.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ASBESTOS CEMENT (AC) LINES UNCOVERED DURING EXCAVATION PER OSHA STANDARDS.
- CONTRACTOR SHALL REMOVE EXISTING WOODEN FENCE ALONG THE NORTHERN AND SOUTHERN PROPERTY LINES. CONTRACTOR SHALL REPLACE WOODEN FENCE IN KIND AND INSTALL NEW FENCE ON THE PROPERTY LINE.
- CONTRACTOR SHALL COORDINATE WITH CENTERPOINT GAS. CENTERPOINT ELECTRIC, AT&T AND ANY OTHER UTILITIES TO BE FOUND IN CONFLICT WITH THE PROPOSED IMPROVEMENTS PRIOR TO THE INSTALLATION OF PROPOSED STORM MANHOLE.

### LEGEND:



**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 SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

NO.	DATE	REVISION	APP.	AES
2/25/22				

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.  
Signature valid for six months.

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.

Approved for AT&T underground conduit facilities only.  
Signature valid for one year.

**Lockwood, Andrews & Newnam, Inc.**  
A LEAD & SAVOR COMPANY  
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Houston, TX 77042-3720  
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www.lan-inc.com

STATE OF TEXAS  
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128340  
LICENSED PROFESSIONAL ENGINEER  
11/11/21  
Lockwood, Andrews & Newnam, Inc.  
Texas Registered Engineering Firm  
F-2814

## CLEAR LAKE CITY WATER AUTHORITY

### MEADOWGREEN SECTION 1 DRAINAGE IMPROVEMENTS

#### ALIGNMENT B, ALIGNMENT C AND ALIGNMENT D PLAN VIEW

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

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

WATER	STORM WATER QUALITY
WASTE WATER	FACILITIES
STORM WATER	TRAFFIC & TRANSPORTATION/STREET & BRIDGE
FILE NO.	HORIZ: 1" = 20' VERT: 1" = 2'
SHEET NO. 9 OF 21	DRAWING SCALE
FOR CITY OF HOUSTON USE ONLY	

HOUSTON PUBLIC WORKS ACCEPTED AND FILED  
**72034**  
CITY DRAWING NUMBER  
Approval Date 02/03/22  
HOUSTON TX

**\*Construction in Harris County Flood Control District Right-of-Way requires:**  
Site plans must be approved prior to obtaining the required HCFCD Right-of-Way Notification. Be advised that the HCFCD Right-of-Way Notification is separate from the site development permit package  
1.) HCFCD Right-of-Way Notification (permit)  
2.) HCFCD 48-hr Pre-Construction Notice  
Both are required prior to entering or working within Harris County Flood Control District right-of-way. The HCFCD Right-of-Way Notification and 48-hour notice must be provided to HCFCD at [dcid@hcfcd.hctx.net](mailto:dcid@hcfcd.hctx.net).  
To apply for the HCFCD Right-of-Way Notification please go to <http://apps.harriscountytexas.gov/EPPermits> and apply for the HCFCD ROW under ROW Notification.  
Failure to provide both items could result in project delays.