

# CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS

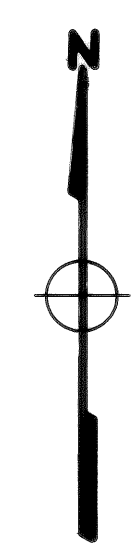
WATER DIVISION

## PROPOSED 12" WATER MAIN


ON

IH 610 AND SH 288

PROJECT 8667



1" = 100'

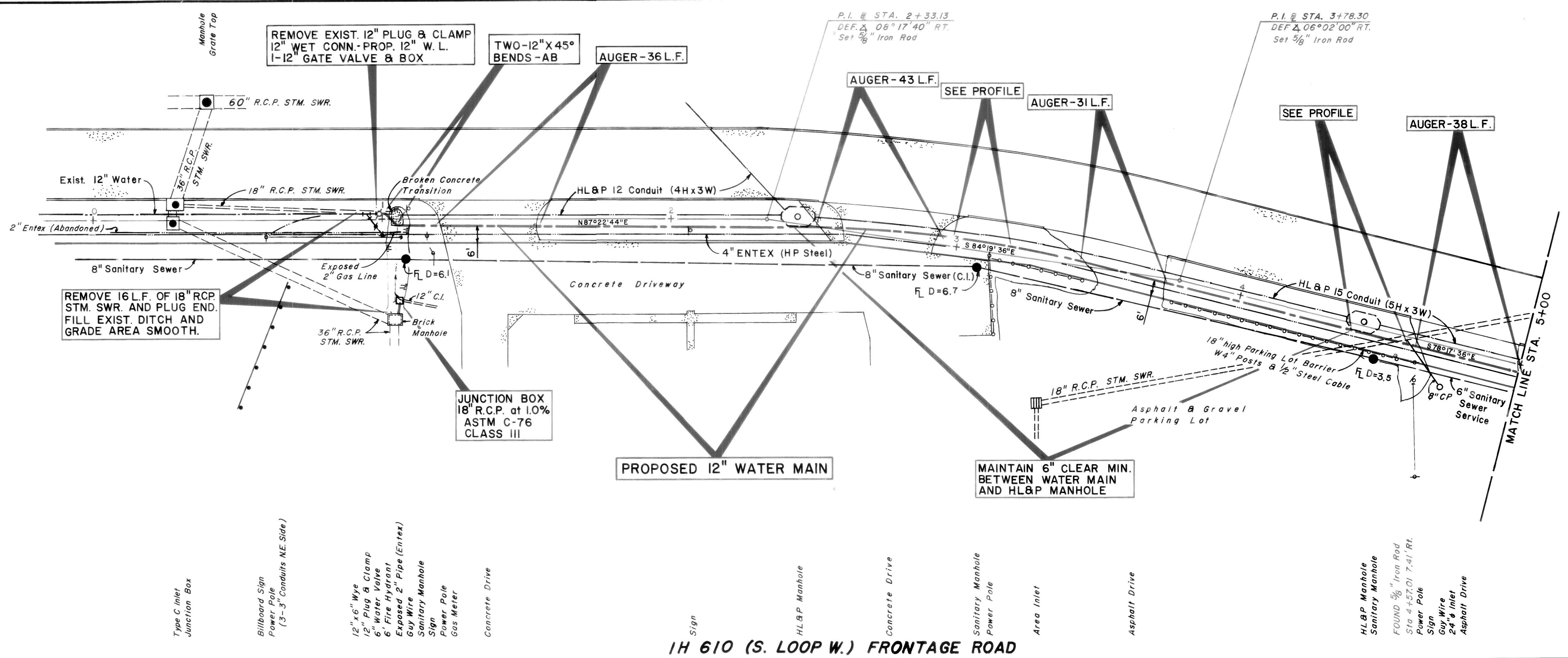
PREPARED BY  
 SILCOCK ENGINEERING  
 HOUSTON SAN ANTONIO

THESE PLANS AND THE SURVEYS UPON WHICH THEY ARE BASED ARE TIED INTO THE OFFICIAL CITY OF HOUSTON SURVEY SYSTEM IN COMPLIANCE WITH ORDINANCE NO. 69-1978. THE CITY SURVEY MARKERS USED FOR THE TIES ARE SHOWN ON THE PLANS. CITY SURVEY MARKERS SERIES 5353, no. 1116 & no. 1216 ARE SHOWN ON THIS SHEET.

**NOTE**  
 WORKING HOURS SHALL BE LIMITED TO 8:30 AM TO 4:00 PM TO AVOID CONFLICT WITH TRAFFIC.

△ 5353  
1216

△ 5353-1116 (NTS)



**BENCH MARKS**  
 TBM No. 1 EL. 47.37  
 X CUT IN SOUTHWEST CORNER  
 INLET AT 0+28.5

**STANDARD PROFILE LEGEND**  
 CENTER LINE OF R. O. W. \_\_\_\_\_  
 PROPERTY LINE S & W \_\_\_\_\_  
 DITCH OR CURB LINE N & E \_\_\_\_\_  
 DITCH OR CURB LINE S & W \_\_\_\_\_

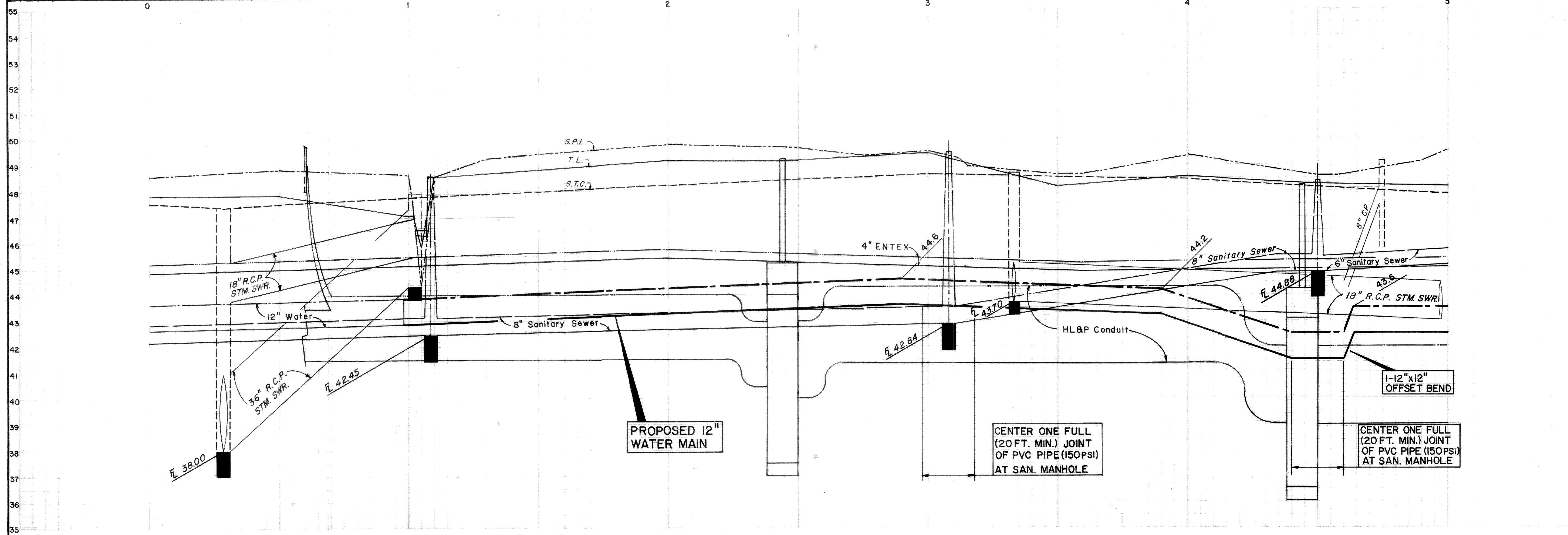
**NOTICE**  
 THE APPROXIMATE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR DETERMINING EXACT LOCATIONS PRIOR TO CONSTRUCTION.

**SANITARY SEWER NOTE:**  
 Contractor to arrange for manhole elevations as necessary to maintain proper flow and proper connections. ELEVATIONS SHOWN ARE APPROXIMATE.

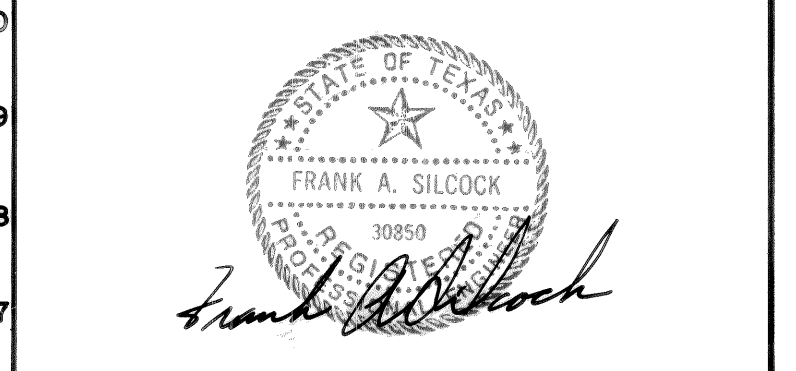
**NOTICE**  
 AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL UTILITY COORDINATING COMMITTEE 223-4567

**PRIVATE UTILITY LINES SHOWN**  
 Entex, Inc.  
 Houston Lighting & Power (approval only for crossing underground ductlines, unless noted.)  
 Southwestern Bell Telephone Co.  
 B.K. Williams 8-1-80

**IH 610 (S. LOOP W.) FRONTAGE ROAD**



**SILCOCK ENGINEERING**  
 HOUSTON SAN ANTONIO



**CITY OF HOUSTON**  
 WATER DIVISION DEPT. OF PUBLIC WORKS  
**PROPOSED 12" WATER MAIN**  
 ON IH 610 AND SH 288  
 FROM 2020 FT. EAST OF ALMEDA RD.  
 TO HOLMES ROAD

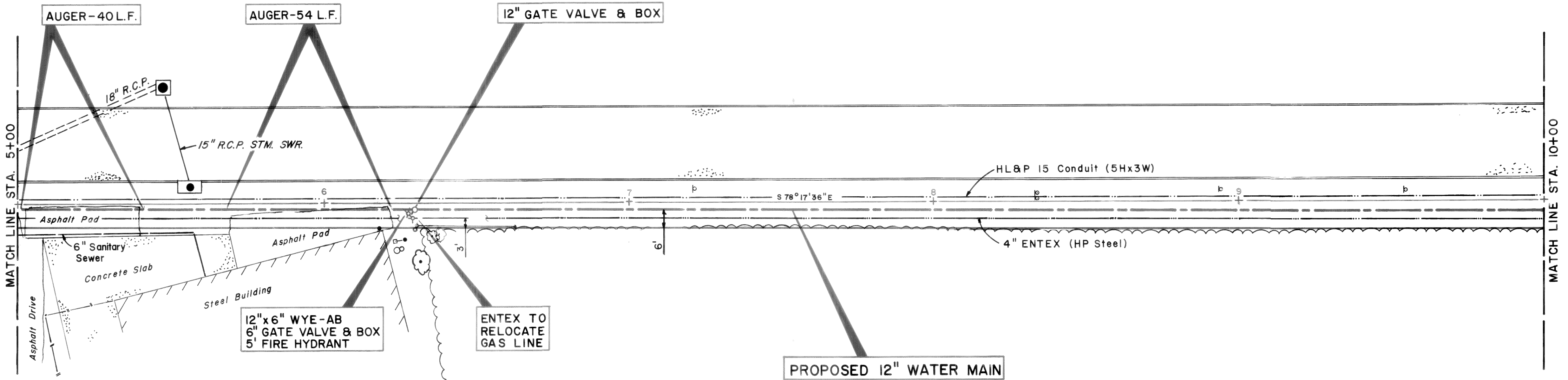
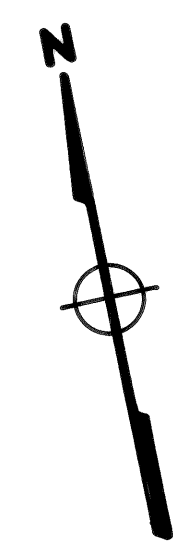
**APPROVED**  
 Design & Detail 7-2-80  
 Sanitary Sewer 7-2-80  
 Storm Sewer 7-2-80  
 Traffic & Transp. Dept. 7-2-80  
 Assistant Director  
 Approved 9/15/80  
 Manager, Engineering  
 Water Quality 9/17/80  
 Construction 9/17/80  
 Director

DRAWN: FAS CHECKED: SK SURVEY: JEMC  
 SCALES: HORIZ. 1" = 20' FIELD BOOK NO. W-1558  
 VERT. 1" = 2' SIZE: 24 x 36  
 REVISED AS BUILT: DATE: MAY 1980  
 PROJ. NO. 8667 SHEET NO. 2 OF 8 SHEETS  
 FILE NO. DRAWING NO. W.D. 6368



**BENCH MARKS**  
 TBM No. 1 EL. 47.37  
 X CUT IN SOUTHWEST CORNER  
 INLET AT 0+28.5

**STANDARD PROFILE LEGEND**  
 CENTER LINE OF R. O. W. \_\_\_\_\_  
 PROPERTY LINE S & W \_\_\_\_\_  
 DITCH OR CURB LINE N & E \_\_\_\_\_  
 DITCH OR CURB LINE S & W \_\_\_\_\_

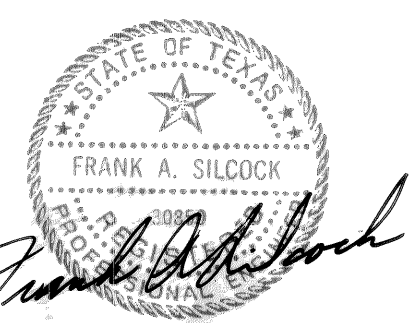


SANITARY SEWER NOTE:  
 Contractor to adjust proposed main line  
 elevation as necessary to provide for  
 stubs and house connections.  
 CONNECTIONS SHOWN ARE APPROXIMATE

**NOTICE**  
 AT LEAST 48 HOURS BEFORE EXCAVATING  
 IN STREET R.O.W. OR EASEMENTS CALL  
 UTILITY COORDINATING COMMITTEE  
 223-4567

PRIVATE UTILITY LINES SHOWN  
 Entex, Inc.  
 1-30-80 ELEV. NOT VERIFIED  
 Houston Lighting & Power (approval only for crossing  
 underground ductlines, unless noted)  
 8-20-80  
 Southwestern Bell Telephone Co.  
 B.K. Alvarez 8-1-80

**SILCOCK ENGINEERING**  
 HOUSTON SAN ANTONIO



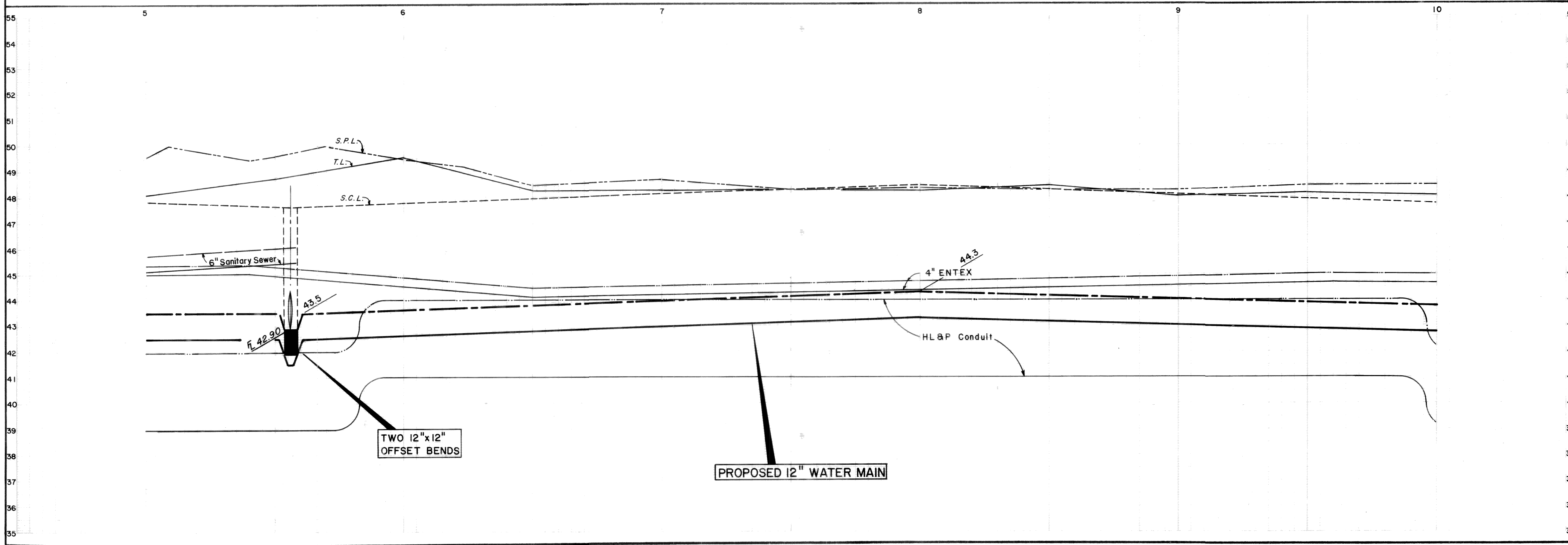
**CITY OF HOUSTON**  
 WATER DIVISION DEPT. OF PUBLIC WORKS  
**PROPOSED 12" WATER MAIN**  
 ON  
 IH 610 AND SH 288  
 FROM  
 2020 Ft. EAST OF ALMEDA RD.  
 TO  
 HOLMES ROAD

APPROVED

7-2-80 Pinned 8/1/80  
 40 [Signature] MANAGER, ENGINEERING  
 39 [Signature] WATER QUALITY  
 38 [Signature] STORM SEWER  
 37 [Signature] CONSTRUCTION

ASSISTANT DIRECTOR DIRECTOR

DRAWN: FAS CHECKED: SK SURVEY: JEMC  
 SCALES: HORIZ. 1"=20' FIELD BOOK NO. W-1558  
 VERT. 1"=2' SIZE: 24 x 36  
 REVISIONS AS BUILT DATE: MAY 1980  
 PROJ. NO. 8667 SHEET NO. 3 OF 8 SHEETS  
 FILE NO. DRAWING NO. W.D. 6368



Capped 1" Gas Pipe  
 Water Well  
 FOUND 1/2" Iron Rod  
 Sta. 6+29.68 8.63' Rt.  
 Power Pole  
 5" Tallow  
 3" Willow  
 4" Willow  
 Two 1" Willows  
 Guy Wire

**IH 610 (S. LOOP W.) FRONTAGE ROAD**

Sign - No Parking

Sign - Construction

Sign - Speed Limit

Sign - Traffic

Type C Inlet

MATCH LINE STA. 5+00

MATCH LINE STA. 10+00

P.I. @ STA. 10+45.45  
DEF. Δ 10° 02' 20" RT.  
SET 5/8" Iron Rod

P.I. @ STA. 11+72.81  
DEF. Δ 26° 09' 40" RT.  
SET 5/8" Iron Rod

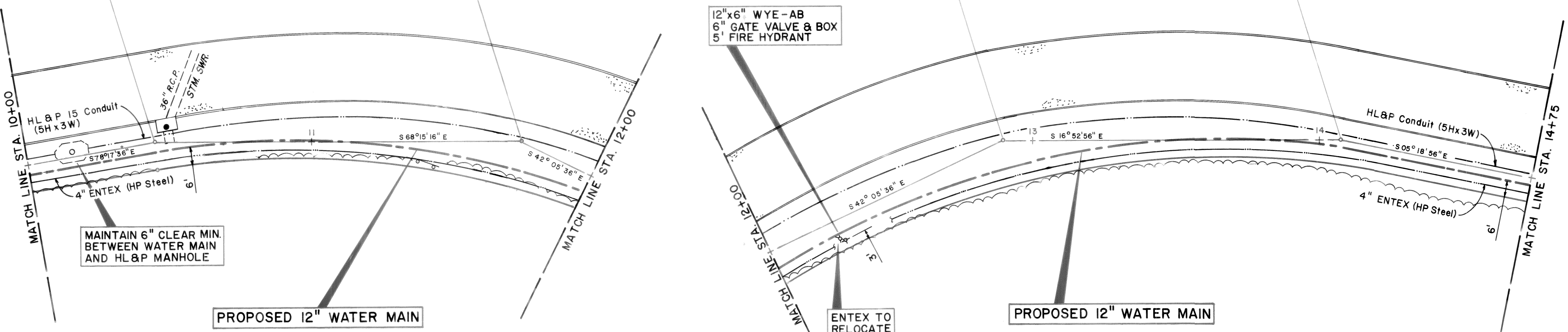
P.I. @ STA. 12+89.75  
DEF. Δ 25° 12' 40" RT.  
SET 5/8" Iron Rod

P.I. @ STA. 14+07.06  
DEF. Δ 11° 34' 00" RT.  
SET 5/8" Iron Rod

| BENCH MARKS                               |           |
|---|-----------|
| TBM No. 1                                 | EL. 47.37 |
| X CUT IN SOUTHWEST CORNER INLET AT 0+28.5 |           |
| TBM No. 2                                 | EL. 48.24 |
| WEST RIM MANHOLE STA. 22+52.5             |           |

**STANDARD PROFILE LEGEND**

|                          |       |
|--------------------------|-------|
| CENTER LINE OF R.O.W.    | _____ |
| PROPERTY LINE N & E      | _____ |
| PROPERTY LINE S & W      | _____ |
| DITCH OR CURB LINE N & E | _____ |
| DITCH OR CURB LINE S & W | _____ |



MAINTAIN 6" CLEAR MIN. BETWEEN WATER MAIN AND HL&P MANHOLE

12"x6" WYE-AB  
6" GATE VALVE & BOX  
5" FIRE HYDRANT

PROPOSED 12" WATER MAIN

ENTEX TO RELOCATE GAS LINE

PROPOSED 12" WATER MAIN

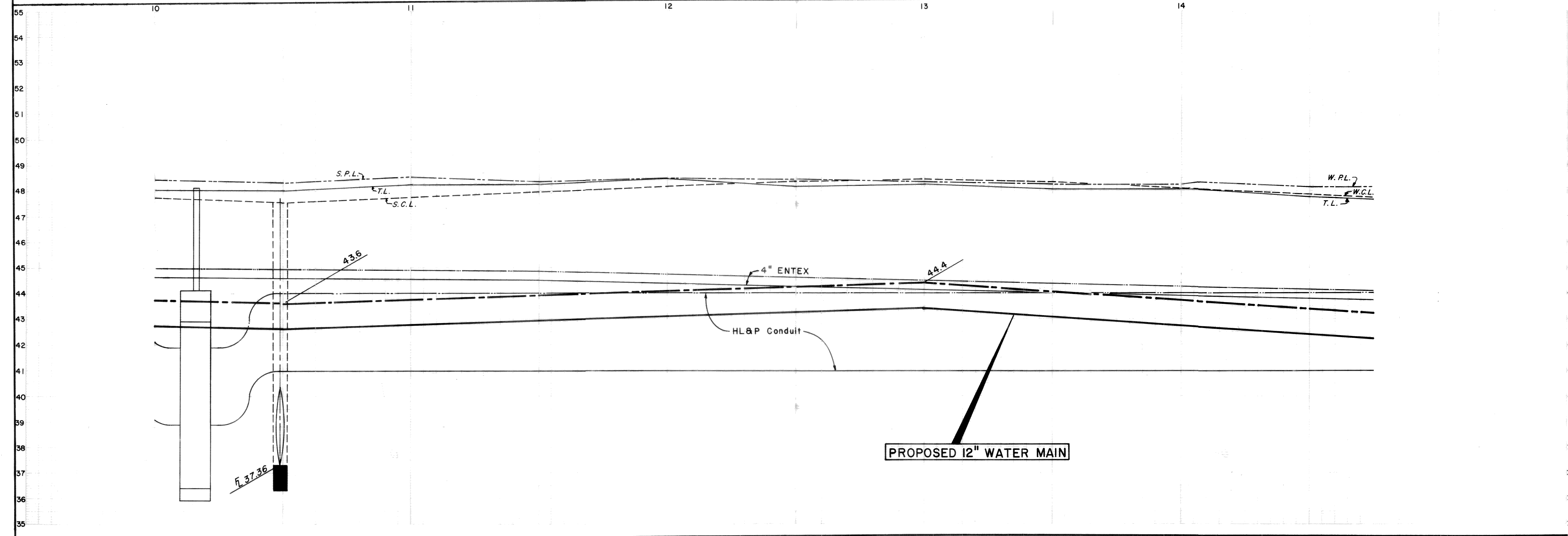
**SANITARY SEWER NOTE:**  
Contractor to adjust proposed water line elevation, as necessary to clear existing stubs and house connections.  
CONNECTIONS SHOWN ARE APPROXIMATE

**NOTICE**  
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL UTILITY COORDINATING COMMITTEE 223-4567

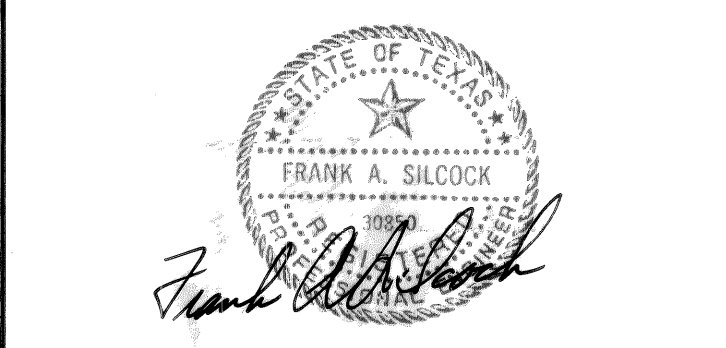
PRIVATE UTILITY LINES SHOWN  
Entex, Inc.  
Houston Lighting & Power, Inc. (Approval only for crossing underground ductlines, unless noted.)  
Southwestern Bell Telephone Co.  
D.K. Adams 8-1-80

1H 610 (S. LOOP W.) FRONTAGE ROAD

SH 288 (SOUTH FWY) FRONTAGE ROAD



**SILCOCK ENGINEERING**  
HOUSTON SAN ANTONIO



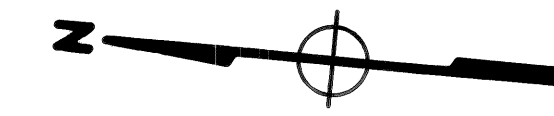
**CITY OF HOUSTON**  
WATER DIVISION DEPT. OF PUBLIC WORKS  
**PROPOSED 12" WATER MAIN**  
ON  
1H 610 AND SH 288  
FROM  
2020 Ft. EAST OF ALMEDA RD.  
TO  
HOLMES ROAD

APPROVED

|  |  |
|--|--|
| Checked by: <i>[Signature]</i> 9-2-80  | Checked by: <i>[Signature]</i> 9/10/80 |
| MANAGER ENGINEER                       | MANAGER ENGINEER                       |
| Checked by: <i>[Signature]</i> 9-10-80 | Checked by: <i>[Signature]</i> 9-10-80 |
| WATER QUALITY                          | WATER QUALITY                          |
| Checked by: <i>[Signature]</i> 9-10-80 | Checked by: <i>[Signature]</i> 9-10-80 |
| STORM SEWER                            | STORM SEWER                            |
| Checked by: <i>[Signature]</i> 8-1-80  | Checked by: <i>[Signature]</i> 8-1-80  |
| TRAFFIC TRANS. DEPT.                   | CONSTRUCTION                           |
| Checked by: <i>[Signature]</i>         | Checked by: <i>[Signature]</i>         |
| ASSISTANT DIRECTOR                     | DIRECTOR                               |

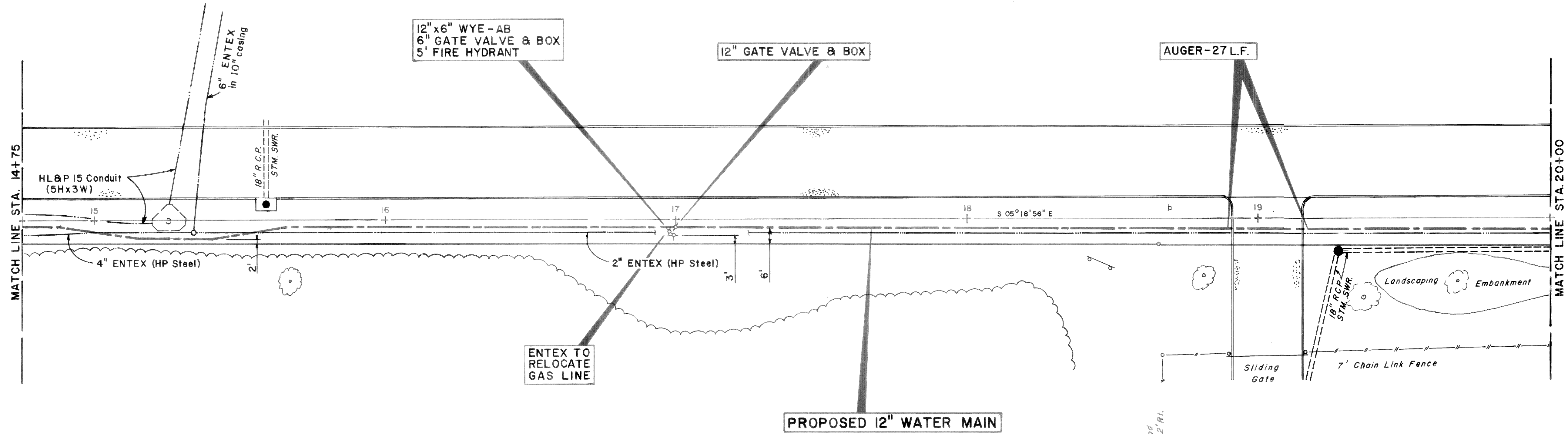
DRAWN: FAS CHECKED: SK SURVEY: JEMC  
HORIZ. 1"=20' FIELD BOOK NO. W-1558  
VERT. 1"=2' SIZE 24 x 36  
REVISED AS BUILT DATE: MAY 1980  
PROJ. NO. 8667 SHEET NO. 4 OF 8 SHEETS  
FILE NO. DRAWING NO. W.D. 636B





**BENCH MARKS**  
 TBM No. 2 EL. 48.24  
 WEST RIM MANHOLE STA. 22+52.5

**STANDARD PROFILE LEGEND**  
 CENTER LINE OF R. O. W. \_\_\_\_\_  
 PROPERTY LINE S & W \_\_\_\_\_  
 DITCH OR CURB LINE N & E \_\_\_\_\_  
 DITCH OR CURB LINE S & W \_\_\_\_\_

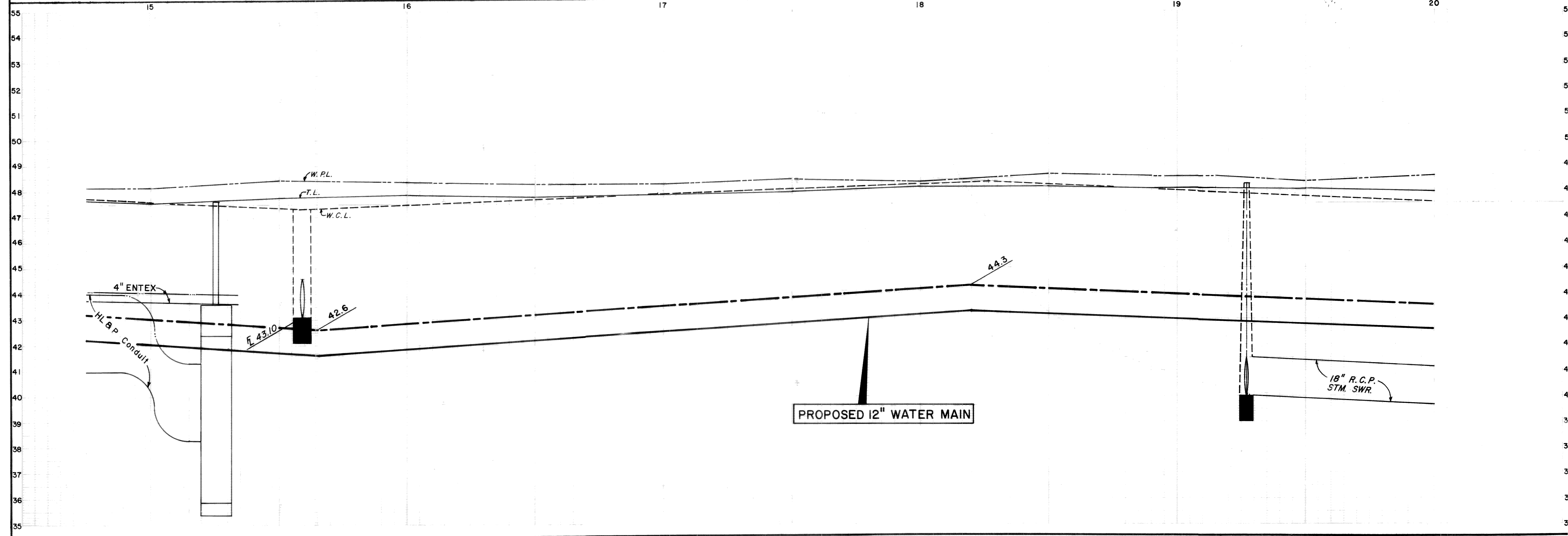


**SANITARY SEWER NOTE**  
 Contractor to adjust proposed water main elevation as necessary to clear existing sanitary sewer and force connections. CONNECTIONS SHOWN ARE APPROXIMATE.

**NOTICE**  
 AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL UTILITY COORDINATING COMMITTEE 223-4567

PRIVATE UTILITY LINES SHOWN  
 Entex, Inc.  
 Houston Lighting & Power (approval only for crossing underground ductlines, unless noted.)  
 Southwestern Bell Telephone Co.  
 8-1-80

**SH 288 (SOUTH FWY) FRONTAGE ROAD**



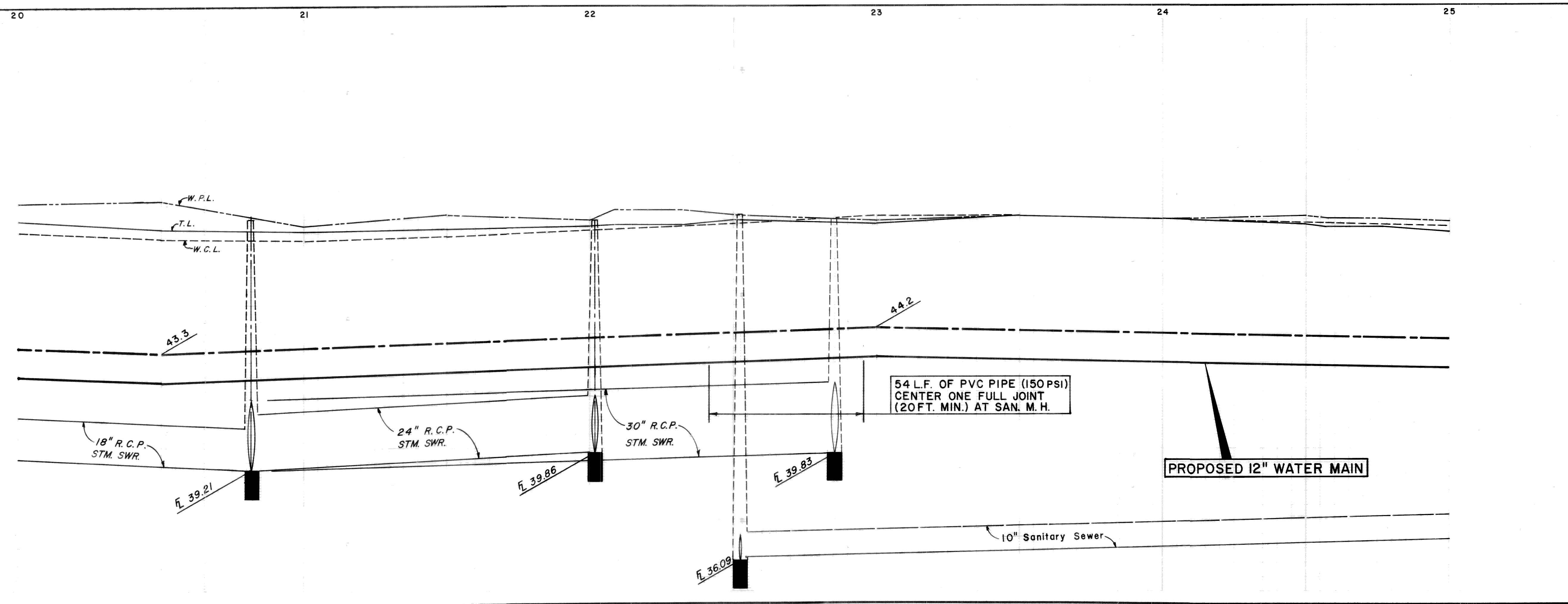
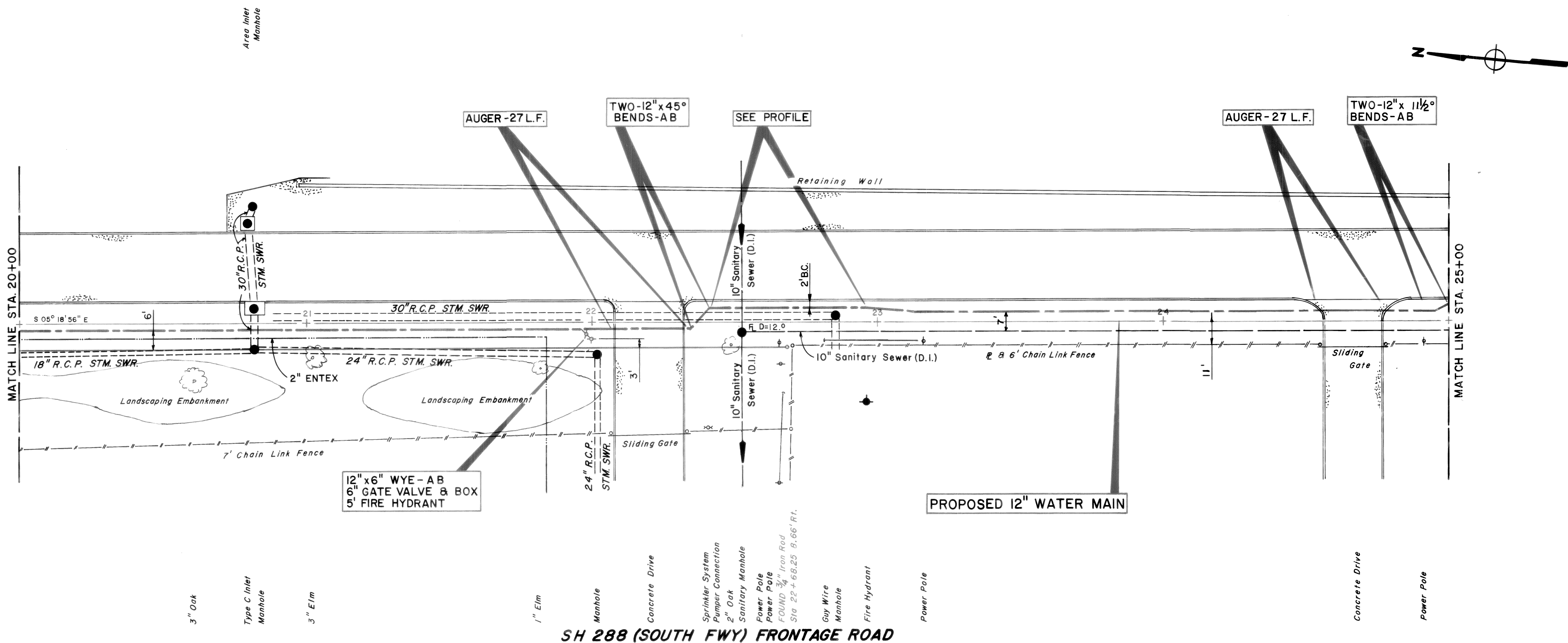
**SILCOCK ENGINEERING**  
 HOUSTON SAN ANTONIO

STATE OF TEXAS  
 FRANK A. SILCOCK  
 1980  
 Frank A. Silcock

**CITY OF HOUSTON**  
 WATER DIVISION DEPT. OF PUBLIC WORKS  
**PROPOSED 12" WATER MAIN**  
 ON  
 1H 610 AND SH 288  
 FROM  
 2020 Ft. EAST OF ALMEDA RD.  
 TO  
 HOLMES ROAD

**APPROVED**  
 JOHN A. SILCOCK 9/2/80  
 MANAGER, ENGINEERING  
 WALTER W. WILLIAMS 9/10/80  
 MANAGER, WATER QUALITY  
 JOHN A. SILCOCK 9/11/80  
 STORM SEWER  
 JOHN A. SILCOCK 9/11/80  
 STORM SEWER  
 JOHN A. SILCOCK 9/11/80  
 STORM SEWER  
 JOHN A. SILCOCK 9/11/80  
 STORM SEWER  
 JOHN A. SILCOCK 9/11/80  
 STORM SEWER

ASSISTANT DIRECTOR DIRECTOR  
 DRAWN: F.A.S. CHECKED: SK SURVEY: J.E.M.C.  
 HORIZ. 1"=20' FIELD BOOK NO. W-1558  
 VERT. 1"=2' SIZE: 24x36  
 REVISED AS BUILT DATE: MAY 1980  
 PROJ. NO. 8667 SHEET NO. 5 OF 8 SHEETS  
 FILE NO. DRAWING NO. W.D. 6368



**BENCH MARKS**  
 TBM No. 2 EL. 48.24  
 WEST RIM MANHOLE STA. 22+52.5

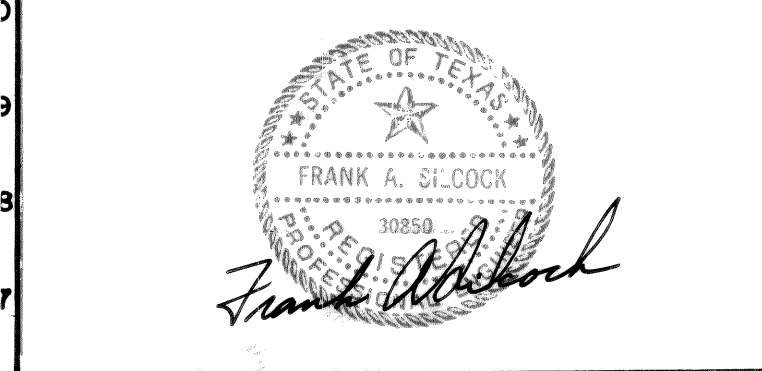
**STANDARD PROFILE LEGEND**  
 CENTER LINE OF R.O.W. \_\_\_\_\_  
 PROPERTY LINE N & E \_\_\_\_\_  
 PROPERTY LINE S & W \_\_\_\_\_  
 DITCH OR CURB LINE N & E \_\_\_\_\_  
 DITCH OR CURB LINE S & W \_\_\_\_\_

**SANITARY SEWER NOTE**  
 Contractor to adjust process of water line  
 elevation as necessary to clear existing  
 street and house of obstructions.  
 POINTS SHOWN ARE APPROXIMATE

**NOTICE**  
 AT LEAST 48 HOURS BEFORE EXCAVATING  
 IN STREET R.O.W. OR EASEMENTS CALL  
 UTILITY COORDINATING COMMITTEE  
 223-4567

PRIVATE UTILITY LINES SHOWN  
 Entex, Inc.  
 Houston Lighting & Power (approval only for crossing  
 underground facilities, unless noted.)  
 Southwestern Bell Telephone Co.  
 B.K. Allman 81-80

**SILCOCK ENGINEERING**  
 HOUSTON SAN ANTONIO



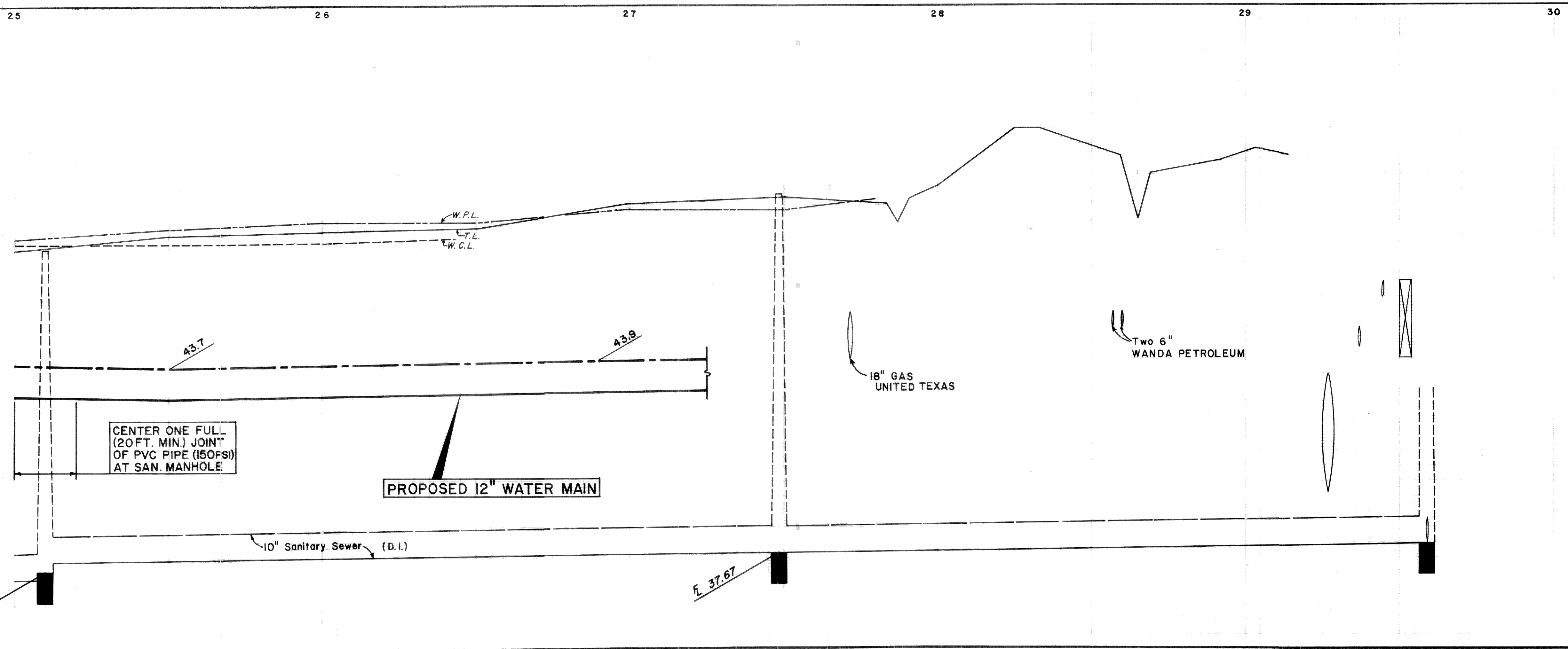
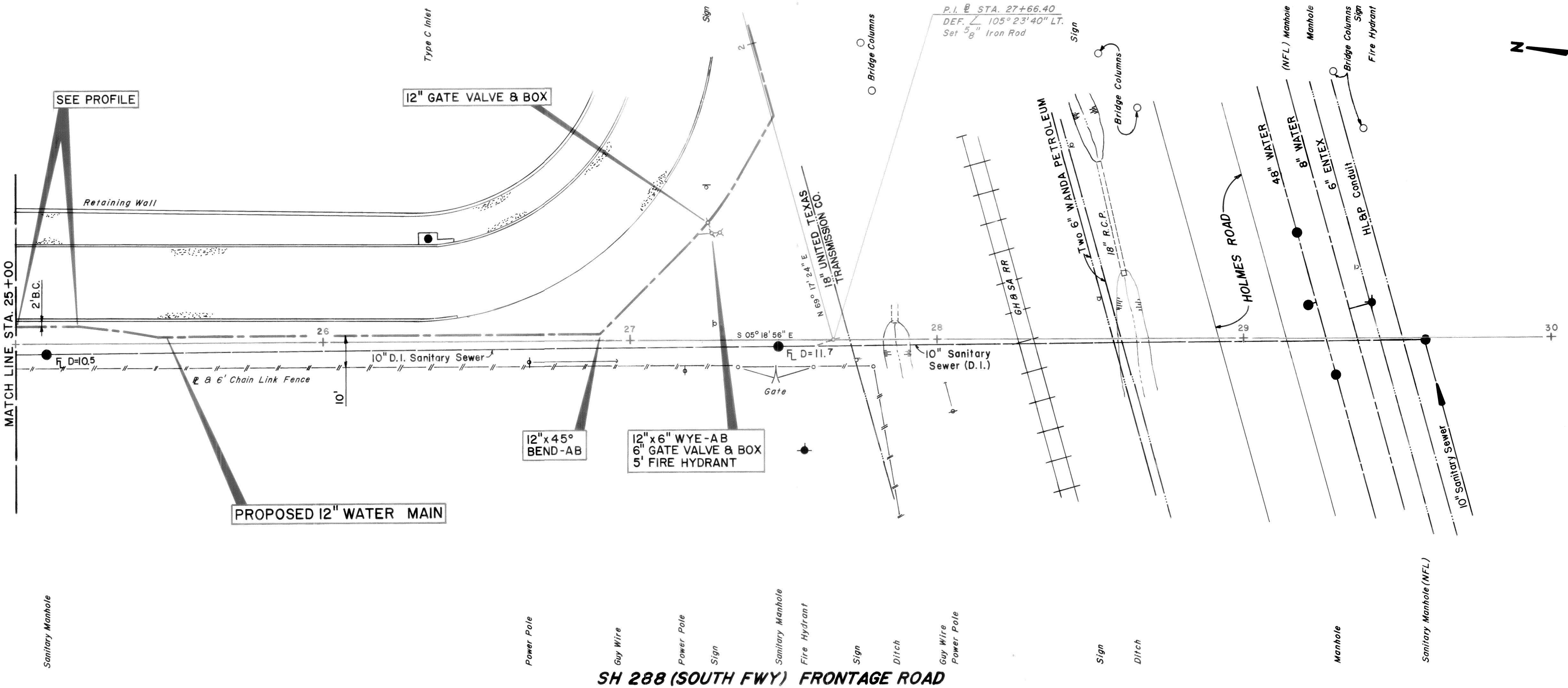
**CITY OF HOUSTON**  
 WATER DIVISION DEPT. OF PUBLIC WORKS  
**PROPOSED 12" WATER MAIN**  
 ON  
 IH 610 AND SH 288  
 FROM  
 2020 Ft. EAST OF ALMEDA RD.  
 TO  
 HOLMES ROAD

APPROVED  
 [Signatures and stamps from various departments including Sanitary Sewer, Storm Sewer, Traffic & Transit, and Construction.]

ASSISTANT DIRECTOR: [Signature]  
 DIRECTOR: [Signature]

DRAWN: FAS CHECKED: SK SURVEY: JEMc  
 SCALES: HORIZ. 1" = 20' FIELD BOOK NO. W-1558  
 VERT. 1" = 2' SIZE: 24 x 36  
 REVISED AS BUILT: DATE: MAY 1980  
 PROJ. NO. 8667 SHEET NO. 6 OF 8 SHEETS  
 FILE NO. DRAWING NO. W.D.G.368





**BENCH MARKS**  
 TBM No. 2 EL. 48.24  
 WEST RIM MANHOLE STA. 22+52.5  
 SURVEY MARKER 5353-1116 EL. 50.21

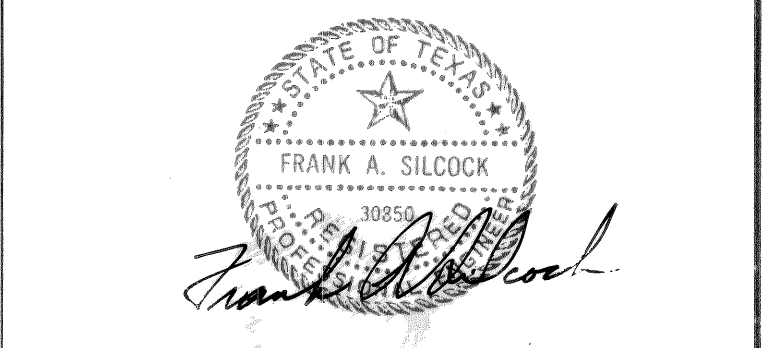
**STANDARD PROFILE LEGEND**  
 CENTER LINE OF R. O. W. \_\_\_\_\_  
 PROPERTY LINE N & E \_\_\_\_\_  
 PROPERTY LINE S & W \_\_\_\_\_  
 DITCH OR CURB LINE N & E \_\_\_\_\_  
 DITCH OR CURB LINE S & W \_\_\_\_\_

**SANITARY SEWER NOTE:**  
 Contractor to adjust proposed elevation as necessary to fit sites and house connections. CONNECTIONS SHOWN ARE APPROXIMATE.

**NOTICE**  
 AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL UTILITY COORDINATING COMMITTEE 223-4567

**PRIVATE UTILITY LINES SHOWN**  
 Entex, Inc.  
 Houston Lighting Power (approval only for crossing underground ductlines, unless noted)  
 Southwestern Bell Telephone Co.  
 D.K. Williams 8-1-80  
 United Texas Transmission Co.  
 Wanda Petroleum Co.  
 W.P. 7-30-80

**SILCOCK ENGINEERING**  
 HOUSTON SAN ANTONIO



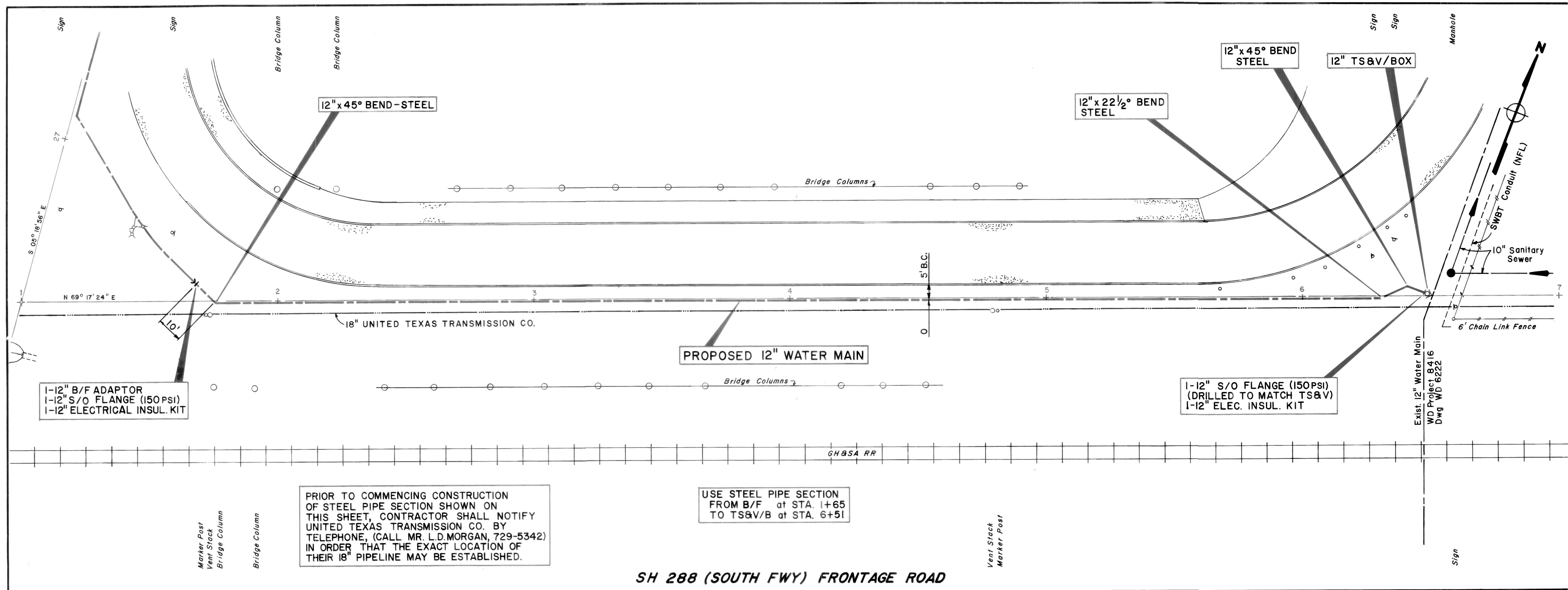
**CITY OF HOUSTON**  
 WATER DIVISION DEPT. OF PUBLIC WORKS

**PROPOSED 12" WATER MAIN**  
 ON  
 IH 610 AND SH 288  
 FROM  
 2020 Ft. EAST OF ALMEDA RD.  
 TO  
 HOLMES ROAD

**APPROVED**  
 DESIGNER: [Signature] 7-1-80  
 CHECKER: [Signature] 9/1/80  
 SANITARY SEWER: [Signature] 9-10-80  
 WATER QUALITY: [Signature] 4/1/80  
 STORM SEWER: [Signature] 8-2-80  
 TRAFFIC & TRANSP. DEPT.: [Signature] 8-2-80  
 ASSISTANT DIRECTOR: [Signature]  
 DIRECTOR: [Signature]

**F A S** CHECKED: **S K** SURVEY JEMC  
 DRAWN: [Signature] HORIZ. 1"=20' FIELD BOOK NO. W-1558  
 SCALES: [Signature] VERT. 1"=2' SIZE 24 x 36  
 REVISED AS BUILT: DATE: MAY 1980  
 PROJ. NO. 8667 SHEET NO. 7 OF 8 SHEETS  
 FILE NO. DRAWING NO. W D 636A

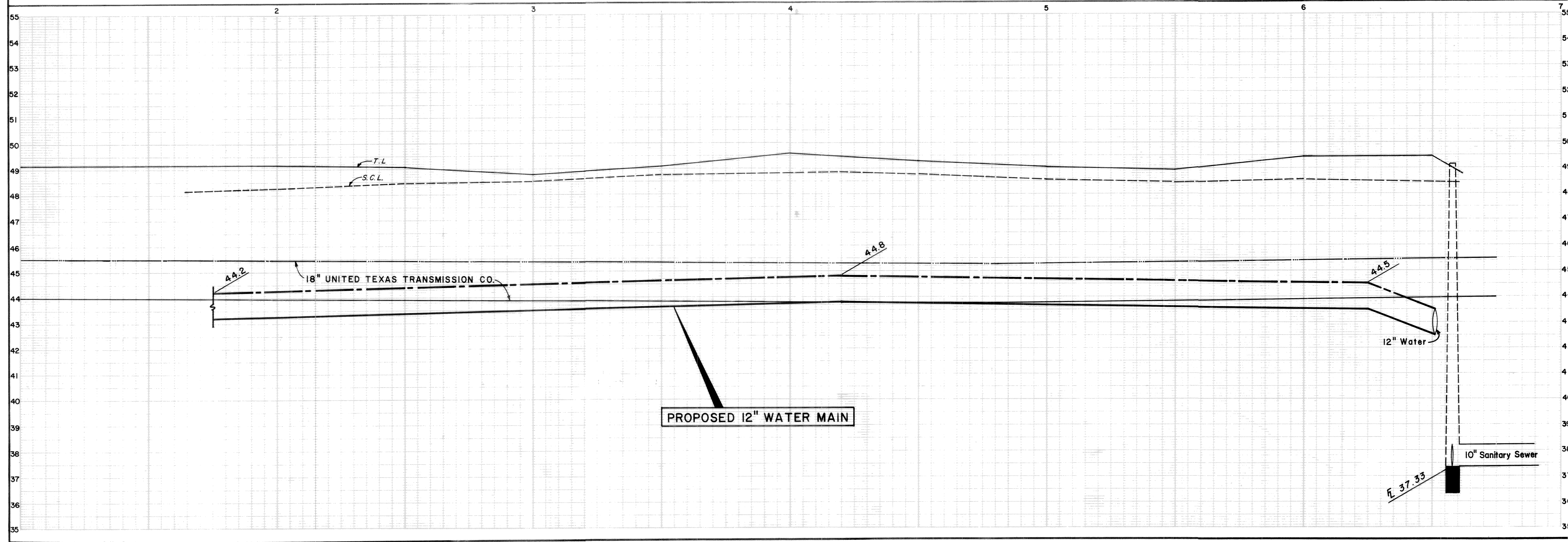




PRIOR TO COMMENCING CONSTRUCTION OF STEEL PIPE SECTION SHOWN ON THIS SHEET, CONTRACTOR SHALL NOTIFY UNITED TEXAS TRANSMISSION CO. BY TELEPHONE, (CALL MR. L.D.MORGAN, 729-5342) IN ORDER THAT THE EXACT LOCATION OF THEIR 18" PIPELINE MAY BE ESTABLISHED.

USE STEEL PIPE SECTION FROM B/F at STA. 1+65 TO TS&V/B at STA. 6+51

**SH 288 (SOUTH FWY) FRONTAGE ROAD**



**BENCH MARKS**

|                               |           |
|-------------------------------|-----------|
| TBM No. 2                     | EL. 48.24 |
| WEST RIM MANHOLE STA. 22+52.5 |           |
| SURVEY MARKER 5353-1116       | EL. 50.21 |

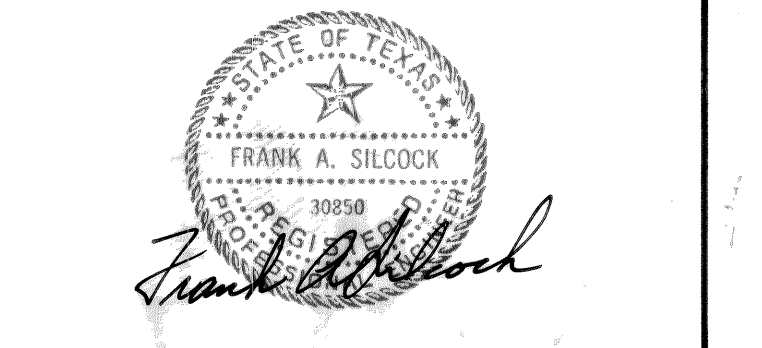
**STANDARD PROFILE LEGEND**

|                          |      |
|--------------------------|------|
| CENTER LINE OF R. O. W.  | ---  |
| PROPERTY LINE S & W      | ---- |
| DITCH OR CURB LINE N & E | ---- |
| DITCH OR CURB LINE S & W | ---- |

**PRIVATE UTILITY LINES SHOWN**  
 Entex, Inc.  
 Houston Lighting & Power (approval only for crossing underground ductlines, unless noted)  
 Southwestern Bell Telephone Co.  
 United Texas Transmission Co.  
 7/30/80

**NOTICE**  
 AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL UTILITY COORDINATING COMMITTEE 223-4567

**SILCOCK ENGINEERING**  
 HOUSTON SAN ANTONIO



**CITY OF HOUSTON**  
 WATER DIVISION DEPT. OF PUBLIC WORKS  
**PROPOSED 12" WATER MAIN**  
 ON  
 IH 610 AND SH 288  
 FROM  
 2020 Ft. EAST OF ALMEDA RD.  
 TO  
 HOLMES ROAD

**APPROVED**

|                          |                      |
|--------------------------|----------------------|
| DESIGN ENGINEER          | MANAGER, ENGINEERING |
| SENIOR ENGINEER          | WATER QUALITY        |
| STATION                  | STORM SEWER          |
| TRAFFIC & TRANSPT. DEPT. | CONSTRUCTION         |
| ASSISTANT DIRECTOR       | DIRECTOR             |

DATE: MAY 1980  
 PROJ. NO. 8667  
 SHEET NO. 8 OF 8 SHEETS  
 DRAWING NO. W.D. 6368